Renew Harbor Island

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3rd Quarter 2026 Groundwater Monitoring Report

For Michigan Part 115 CCR Solid Waste Regulations

Former J.B. Sims Generating Station

October 30, 2026

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1.0 Introduction

The former J.B. Sims Generating Station was a coal-fired, steam-generating power facility with a net capacity of approximately 70.5 megawatts that was operated by the Grand Haven Board of Light and Power (GHBLP). The facility is located at 1231 North 3rd Street, on Harbor Island, in Grand Haven, Michigan (**Figure 1**) (the Site). The coal combustion residuals (CCR) generated at the former Site were stored in two CCR units: (1) the inactive Units 1/2 Impoundment and (2) the former Unit 3A/B Impoundments (**Figure 2**). Operations at the Site ceased in February 2020 and the plant subsequently was decommissioned. During deconstruction, wastewater from boiler and infrastructure cleanout was sent to Unit 3A/B. The waste disposal into Unit 3A/B ceased in July 2020.

The U.S. Environmental Protection Agency's (EPA) final CCR Rule 40 CFR §257 and Michigan's Part 115 Solid Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451 (Part 115), establish a comprehensive set of requirements for the management and disposal of CCR (or coal ash). Pursuant to these requirements, federal and state groundwater monitoring programs are performed concurrently for the Site. The current groundwater monitoring network for the CCR units was established in 2022. Background data collection occurred between November 2022 and August 2023 for the current monitoring network and background wells. The first sampling event after the background monitoring period using the updated monitoring network occurred in October 2023. The October 2023 sampling event was considered both a detection and assessment monitoring event based on the prior status of the Site in assessment monitoring before the well network was updated. Both statistically significant increases (SSI) of constituents in groundwater above the background values and statistically significant levels (SSLs) of constituents over groundwater protection standards (GPS) were identified from the October 2023 sample event. Therefore, the status of the groundwater monitoring program for both CCR units is assessment monitoring and evaluation of potential remedies. The Site initiated assessment of corrective measures, pursuant to Part 115 R299.4443, on May 1, 2024, following the identification of SSIs at one or more monitoring wells. The Assessment of Corrective Measures was published August 5, 2024, and additional data collection continued through 2025 and 2026 to further support the remedy selection process.

This Groundwater Monitoring Report presents the activities completed in the third quarter of 2026.

1.1 Background

The former Unit 3A/B Impoundments were engineered, clay-lined, above-ground units that ceased receiving CCR material in July 2020. In 2017, a Groundwater Monitoring System Certification was first developed for the Unit 3A/B Impoundments, which consisted of one background well (MW-07), four (4) downgradient detection monitoring wells (MW-01R, MW-02, MW-03, and MW-04), and an additional assessment monitoring well (MW-09) (ERM, 2017). Groundwater monitoring conducted in 2017 by GHBLP identified statistically significant increases (SSIs) of constituents in groundwater, and therefore the GHBLP implemented assessment monitoring (Golder, 2018). Assessment monitoring identified SSLs over the GPS at

the Site and, therefore, GHBLP stated that they were initiating assessment of corrective measures for the Site; however, that document (Golder, 2018a) was completed prior to the inclusion of the Units 1/2 Impoundment CCR unit and thus only represents the status of the Unit 3A/B Impoundments. The inactive CCR Units 1/2 Impoundment was a depression in the ground where sluiced ash was disposed.

The inactive Units 1/2 Impoundment ceased receiving CCR material in 2012. After adding monitoring wells to the network to address the Units 1/2 Impoundment, the Updated Notice of Groundwater Protection Standard Exceedance was issued to document SSLs over GPS for both Units 1/2 Impoundment and Unit 3A/B Impoundments on July 22, 2021.

In 2021, to better understand the groundwater flow on the Island, and to verify that the monitoring network in place at the time was adequate, 22 piezometers, six (6) staff gauges, and 3 stilling wells were installed. The Field Summary Report of Results from Approved Work Plan - Piezometer Installation and Additional Data Collection suggested that MW-07 may be an inappropriate location for a background well due to the potential for groundwater to flow from the Units 1/2 Impoundment toward MW-07 (Golder, 2022). Therefore, in 2022 a new groundwater monitoring network was selected for the CCR units, including new background wells.

Background data collection for the updated monitoring network and new background wells occurred between November 2022 and August 2023. The first sampling event after the updated background monitoring period occurred in October 2023, and quarterly monitoring has been conducted in 2024, 2025, and the first three quarters of 2026.



Figure 1 | Site Vicinity Map

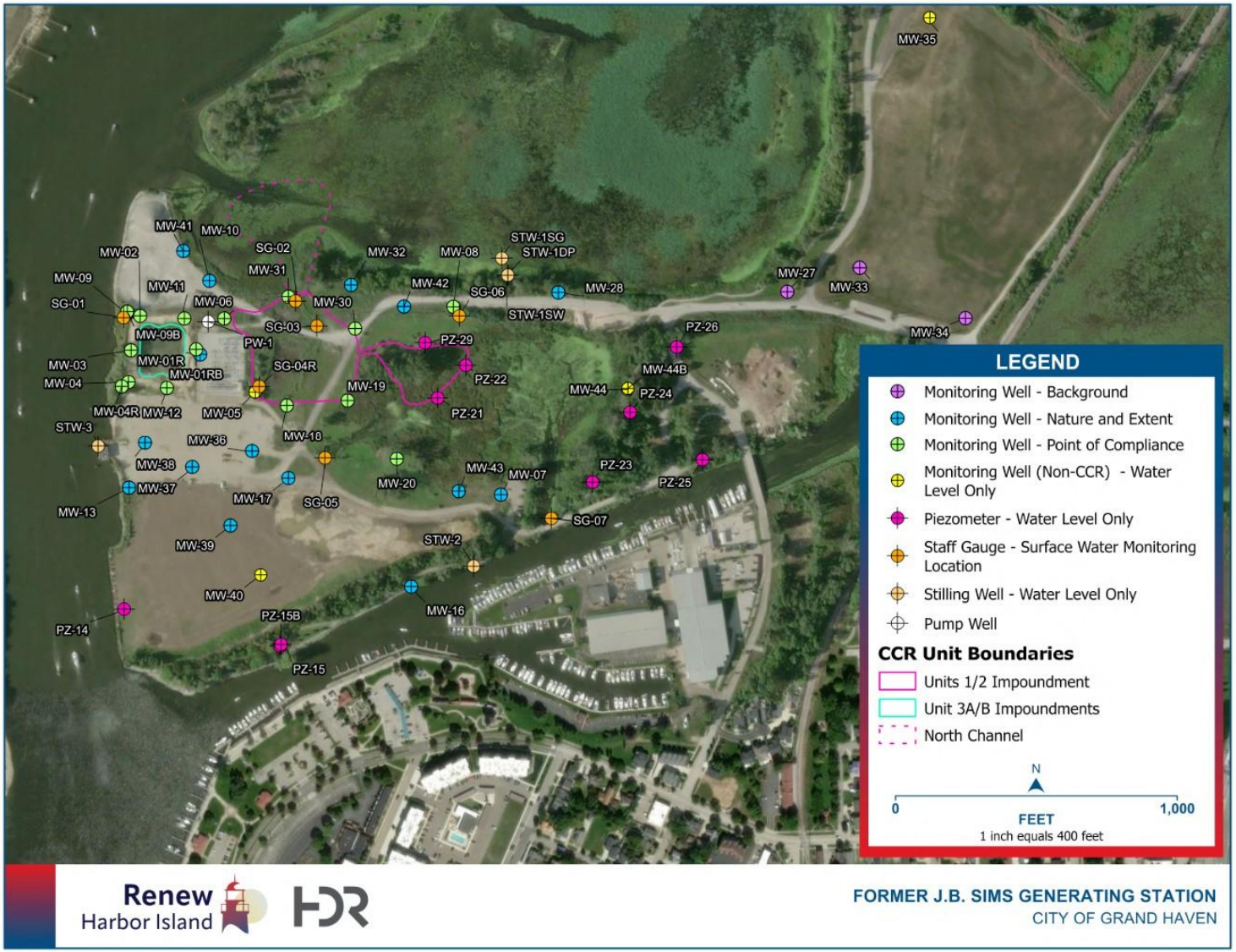


Figure 2 | Former J.B. Sims CCR Units and Monitoring Wells

2.0 Facility Description

2.1 Units 1/2 Impoundment

The inactive CCR Units 1/2 Impoundment was a depression in the ground where sluiced ash was disposed. The inactive Units 1/2 Impoundment ceased receiving CCR materials in 2012. Due to the lack of clearly defined boundaries, the Units 1/2 Impoundment was delineated by Golder in the 2019 report *CCR Impoundment Ash Delineation at the J.B. Sims Generating Station* (Golder, 2019). Following the submission of the delineation report, the boundary of the inactive Units 1/2 Impoundment was agreed upon by GHBLP, EPA, and EGLE, which includes an area of sluiced ash disposal to the east of MW-30 into the Internal Wetland (**Figure 2**). The parties also agreed that the North Channel (**Figure 2**) adjacent to the Units 1/2 Impoundment would be evaluated for potential inclusion in the revised boundary of the Units 1/2 Impoundment. After field investigation of the North Channel area to delineate coal ash, and submittal of the investigation data and proposed additional data collection, EGLE and EPA determined that the coal ash associated with the North Channel is not associated with the Units 1/2 Impoundment. EGLE and EPA indicated that the North Channel coal ash would be evaluated as a potential CCR Management Unit under the EPA CCR Legacy Rule (40 CFR §257.95) (currently under review by EPA) (**Figure 2**).

2.2 Unit 3A/B Impoundments

The former CCR Unit 3A/B Impoundments were constructed as two above-ground surface impoundments underlain by a clay liner; however, the engineered clay liner did not meet Part 115 CCR surface impoundment liner criteria (**Figure 2**). Golder (2020) stated that the former 3A/B Impoundments were built over a “field of ash” that was generated from Boiler Units 1 & 2. Although the former coal-fired power generation facility ceased operations in February 2020, the Site continued to use the Unit 3A/B Impoundments to store cleanout materials from the hoppers, vessels, etc. prior to demolition of the buildings. The impoundments ceased receiving waste on July 30, 2020. Removal of CCR from the impoundments was completed on November 6, 2020, and the liner remains in place. Following the CCR removal, Golder conducted coal ash removal verification that was ultimately denied by EGLE. Further coal ash delineation was conducted in 2025 to define the extent of any residual CCR on the roads adjacent to the Unit 3A/B Impoundments.

2.3 Hydrogeology

The uppermost aquifer across Harbor Island consists of fine sand with gravel and silt lenses, clay, peat, coal ash, and municipal solid waste. The base of the aquifer is a continuous fine-grained unit typically described as a sandy silt, clayey silt, or silty sand found as shallow as 20.5 feet below ground surface (bgs) on the east side of Harbor Island (i.e., piezometer PZ-26) and as deep as 38.5 feet bgs on the west side (i.e., well PW-1). The fine-grained unit has been observed between these depths in borings MW-12, PZ-14, MW-16, MW-17, MW-18, MW-20, PZ-24, PZ-25, PZ-27, MW-30, MW-01RB, PW-1, and in four borings (DB-01 through DB-04) completed in November 2025 to further map the base of the aquifer. Beneath the silt, a massive

silty clay unit is present. The silty clay is at least 103.5 feet thick at boring PDR-3, located near the former power plant footprint, which was drilled in 2019 to 151.5 feet and did not fully penetrate. **Figures 3 and 4** illustrate the inferred surface elevations of the silt and clay units, respectively.



Figure 3 | Inferred Elevation of Silt Surface

The Grand River is located on the western side of Harbor Island, and the South Channel of the Grand River is located on the south side of Harbor Island. The northern side of Harbor Island is bordered by the Northern Wetland, which is typically embayed by the Grand River during high river stages. The center of Harbor Island is the Internal Wetland.

A local groundwater high is typically present south and east of the Unit 3A/B impoundments, centered around wells MW-12 and MW-01R. A groundwater contour map of water levels measured at the start of the third quarter 2026 sampling event is in **Appendix A**. The map shows groundwater flow beneath the Unit 3A/B Impoundments is west toward the Grand River. Groundwater flow beneath the Units 1/2 Impoundment is generally radial: northward toward the Northern Wetland, east from the Units 1/2 Impoundment ponds toward the Internal Wetland, and potentially south near MW-05. The Internal Wetland east of the Units 1/2 Impoundment

hydraulically separates the CCR impoundments and the wells and piezometers located to the east (PZ-23 through PZ-26, MW-27, MW-33, and MW-34) and acts as a hydraulic sink with groundwater flowing towards the wetland from both the east and west.



Figure 4 | Inferred Elevation of Clay Surface

Slug tests have been performed and analyzed at 21 monitoring wells and piezometers, with average hydraulic conductivities ranging from 0.055 feet per day (ft/d) at well MW-14, to 242 ft/d at piezometer PZ-20 (**Table 1**). The range in hydraulic conductivity is consistent with the variable stratigraphy, particularly in the upper 20 feet of Site soils. Additionally, a single recovery test was performed at well MW-44B, which was intentionally screened in clay to evaluate the hydraulic properties of the clay. For the test, MW-44B was pumped to near dryness, and the rate at which it recovered over the next 19 hours was monitored. The estimated hydraulic conductivity of 4.6E-06 ft/d (1.6E-09 cm/s) is consistent with published values for clay.

In March 2026, a constant-rate aquifer pumping test was performed at pumping well PW-1, located northeast of the Unit 3A/B Impoundments (**Figure 2**). The pumping well was screened in fine to coarse sand from 28 to 38 feet bgs and pumped for 34 hours at 112 gallons per minute (GPM). Based on drawdown observed at well MW-01RB, also screened in the fine-to-coarse sand unit, the hydraulic conductivity was estimated to be 205 ft/d (0.072 cm/s).

Table 1 | Hydraulic Conductivity Values

Well ID	Screen Interval Lithology	Average Hydraulic Conductivity (feet/day)
Golder Associates 2021		
MW-01R	Silty fine sand with trace refuse and silt	5.41
MW-02	Silty clay and poorly graded fine sand	0.19
MW-04	Well graded fine to medium sand and sandy silt	1.70
MW-05	Fine grained ash with refuse	18.76
MW-07	Sandy peat with shell fragments and silty sand	7.99
MW-08	Refuse and clayey sand	7.90
MW-17	Sand with some gravel and gravelly silt with trace organics	172.51*
MW-20	Peaty sand and peaty silt	242.25*
PZ-26	Very fine to medium sand with organics	8.34
MW-31	Mucky sand with refuse and sandy peat with refuse	0.36
HDR 2024		
MW-10	Fine to coarse sand with gravel	14.5
MW-12	Sand, clayey peat	14.0
MW-16	Fine sand, wood and organics	15.9
MW-32	Peaty silt, refuse	24.4
MW-36	Poorly graded sand and well graded gravel	23.7
MW-40	Poorly graded sand and silty gravel	1.38
PZ-15	“Mucky” sand	1.54
HDR 2025		
MW-01RB	Poorly graded sand	180.86
MW-41	Poorly graded sand, gravel with sand, clayey silt	0.055
MW-44	Sand with gravel and silty sand	3.68
MW-44B*	Lean clay	4.6E-06**
PZ-15B	Silty sand	2.18

* Wells MW-17 and MW-20 were retested by HDR in 2024, with the retest confirming the anomalously high result value.
** Well MW-44B was intentionally screened in a soft clay unit to test the hydraulic properties of the clay.

2.4 Monitoring Well Network

The monitoring well network consists of the monitoring wells (MW-#) and piezometers (PZ-#) listed in **Table 2** and shown in **Figure 2**. Water levels are measured in the monitoring wells, and groundwater is sampled for water quality. The piezometers are monitored only for water levels. Note that if water quality monitoring is initiated at a piezometer, the designation of the monitoring point is changed (i.e., PZ-13 was re-designated as MW-13). The monitoring network for each impoundment is described below.

Table 2 | Dates of Groundwater Monitoring in Third Quarter 2026		
Well ID	Date Sampled	Monitoring Purpose
Background Monitoring Wells		
MW-27	8/12/2026	Assessment Monitoring
MW-33	8/13/2026	Assessment Monitoring
MW-34	8/12/2026	Assessment Monitoring
Units 1/2 Compliance Monitoring Wells		
MW-06	8/12/2026	Assessment Monitoring
MW-08	8/12/2026	Assessment Monitoring
MW-18	8/11/2026	Assessment Monitoring
MW-19	8/12/2026	Assessment Monitoring
MW-20	8/11/2026	Assessment Monitoring
MW-30	8/11/2026	Assessment Monitoring
MW-31	8/13/2026	Assessment Monitoring
Unit 3A/B Compliance Monitoring Wells		
MW-02	8/12/2026	Assessment Monitoring
MW-03	8/13/2026	Assessment Monitoring
MW-04	8/13/2026	Assessment Monitoring
MW-04R	8/13/2026	Assessment Monitoring
MW-11	8/12/2026	Assessment Monitoring
MW-12	8/12/2026	Assessment Monitoring
Nature and Extent Wells – Units 1/2		
MW-07	8/11/2026	Assessment Monitoring
MW-16	8/11/2026	Assessment Monitoring
MW-17	8/11/2026	Assessment Monitoring
MW-28	8/12/2026	Assessment Monitoring
MW-32	8/12/2026	Assessment Monitoring
MW-36	8/11/2026	Assessment Monitoring
MW-37	8/11/2026	Assessment Monitoring
MW-42	8/10/2026	Assessment Monitoring
MW-43	8/11/2026	Assessment Monitoring
Nature and Extent Wells – Unit 3A/B		
MW-01R	8/11/2026	Assessment Monitoring
MW-01RB	8/11/2026	Assessment Monitoring
MW-09	8/10/2026	Assessment Monitoring
MW-10	8/10/2026	Assessment Monitoring
MW-13	8/11/2026	Assessment Monitoring
MW-38	8/11/2026	Assessment Monitoring
MW-39	8/12/2026	Assessment Monitoring
MW-41	8/10/2026	Assessment Monitoring
Water Level Only Wells		
MW-05	8/10/2026	Water Level Only
MW-09B	8/10/2026	Water Level Only
PZ-14	8/10/2026	Water Level Only

Table 2 | Dates of Groundwater Monitoring in Third Quarter 2026		
Well ID	Date Sampled	Monitoring Purpose
PZ-15	8/10/2026	Water Level Only
PZ-15B	8/10/2026	Water Level Only
PZ-23	8/10/2026	Water Level Only
PZ-24	8/10/2026	Water Level Only
PZ-25	8/10/2026	Water Level Only
PZ-26	8/10/2026	Water Level Only
PZ-29	8/10/2026	Water Level Only
MW-35	8/10/2026	Water Level Only
MW-40	8/10/2026	Water Level Only
MW-44	8/10/2026	Water Level Only
MW-44B	8/10/2026	Water Level Only

Units 1/2 Impoundment

Due to the size of the Units 1/2 Impoundment compared to the limits of Harbor Island, and radial groundwater flow direction, a traditional upgradient/downgradient groundwater monitoring system is not possible. Further detail explaining the locations and justification of each well location is provided in the Hydrogeologic Monitoring Plan (HMP - HDR, 2025). The following wells are utilized as the groundwater monitoring network:

- Background Wells: MW-27, MW-33, and MW-34
- Point of Compliance Wells (i.e. waste boundary wells): MW-06, MW-08, MW-18, MW-19, MW-20, MW-30, and MW-31
- Nature and Extent Wells: MW-07, MW-10, MW-16, MW-17, MW-28, MW-32, MW-36, MW-37, MW-42, and MW-43.

In November 2025, new monitoring wells MW-42 and MW-43 were installed as nature and extent wells for the Units 1/2 Impoundment. The wells were sampled for the first time in December 2025, and the third quarterly 2026 event in August was the fourth sampling event.

Unit 3A/B Impoundments

The monitoring well network justification for the Unit 3A/B Impoundments is provided in the Hydrogeologic Monitoring Plan (HDR, 2025). The well network is as follows:

- Background Wells: MW-27, MW-33, and MW-34
- Point of Compliance Wells (i.e. waste boundary wells): MW-02, MW-03, MW-04, MW-04R, MW-11, and MW-12
- Nature and Extent Wells: MW-01R, MW-01RB, MW-09, MW-10, MW-13, MW-38, MW-39, and MW-41.

In November 2025, monitoring well MW-41 was installed as a nature and extent well for the Unit 3A/B Impoundments. Monitoring well MW-09B was installed to evaluate vertical gradients near well MW-09.

Monitoring well MW-04R was installed as a potential replacement well for MW-04 because coal ash was present within the screened interval of the existing well. The replacement well was installed adjacent to the existing well, with its screened interval positioned immediately beneath the CCR. The replacement well was first sampled in December 2025; the third quarter 2026 monitoring event in August 2026 represented the fourth sampling event.

Concentrations of CCR-related constituents with GPS exceedances at MW-04R have been consistently lower in the replacement well than in the original well, where the screened interval was in direct contact with CCR. These results indicate that the elevated concentrations observed in MW-04 are influenced by the presence of CCR within its screened interval, and may reflect leachate conditions within the waste rather than groundwater conditions at the waste boundary. Therefore, MW-04R is considered more representative of groundwater quality at the waste boundary. Based on these findings, it is proposed that sampling of MW-04 be discontinued.

At MW-04R, total dissolved solids (TDS) exceeded the GPS during each of the four sampling events completed to date. No other constituents exceeded their respective GPS values. The 95% Lower Confidence Limits (LCLs) for the replacement well will be calculated after eight sampling events have been completed.

Water Level Wells

The following monitoring wells and piezometers are monitored for water level only and are not sampled: MW-05, MW-09B, PZ-14, PZ-15, PZ-15B, PZ-21, PZ-22, PZ-23, PZ-24, PZ-25, PZ-26, PZ-29, MW-35, MW-40, MW-44, and MW-44B as shown on **Figure 2**. Piezometers PZ-21, PZ-22, and PZ-29 were installed within the Internal Wetland and are inaccessible at times and therefore are monitored less frequently.

In November 2025, new wells MW-44, MW-44B, and piezometer PZ-15B were installed to evaluate non-CCR impacts and to monitor water levels at the groundwater-surface water interface near the Internal Wetland and the South Channel.

Transducers have been installed in the monitoring wells, stilling wells, and staff gauges that are marked on **Figure 5** with (T) next to the location ID. The transducers measure and record groundwater elevations at one-hour intervals and are described in further detail in Section 4.1.

A new steel-cased stilling well was installed adjacent to the existing PVC stilling well STW-3. Currently, both measuring points remain attached to the steel walkway attached to the intake building. The STW-3 transducer was moved to the steel stilling well during the third quarter monitoring event.

No other wells were installed, repaired, or abandoned in the third quarter of 2026.



Figure 5 | Transducer Deployment Map

3.0 Monitoring

3.1 Groundwater Monitoring

Table 2 provides well identification numbers, well locations, the dates samples were collected during Quarter 3 2026 (August), and whether a sample was required by the CCR Rule for background sampling, detection monitoring or assessment monitoring programs. Any deviation in sample collection from the Hydrogeologic Monitoring Plan (HDR, 2025) is outlined in **Section 3.3**. Sampling for the third quarter began on August 10, 2026. Water levels across the network were measured on the same day.

3.2 Surface Water Monitoring

Surface water monitoring coincides with the groundwater sampling. Stilling wells STW-1SW, STW-2, STW-3 and staff gauges STW-1SG, SG-01, SG-03, and SG-06 are monitored for water levels only. Staff gauges SG-02, SG-04R, SG-05, SG-07 are monitored for water levels and surface water quality (**Figure 2**). Surface water monitoring dates for the third quarter 2026 are shown in **Table 3**. Deviations from the work plan are outlined in **Section 3.3**.

In the Northern Wetland, stilling well STW-1 was replaced in November 2025 with a new stilling well (STW-1SW) to monitor surface water, and paired with a new shallow drive point well (STW-1DP) to monitor shallow groundwater levels at the periphery of the wetland when the wetland surface is dry. Both the stilling well (SW) and drive point (DP) are accessible along the northern shoreline of Harbor Island (**Figure 2**). The STW-1SG staff gauge (previously designated STW-1) remains located approximately 40 yards. Stilling well STW-1SG was inaccessible across the Northern Wetland mud flat in the third quarter 2026 and was obscured by vegetation.

Table 3 | Dates of Surface Water Monitoring in Third Quarter 2026

Well ID	Monitoring Date
SG-01	8/10/2026[1]
SG-02	8/10/2026
SG-03	8/10/2026[1]
SG-04R	8/10/2026[1]
SG-05	8/10/2026
SG-06	8/10/2026[1]
SG-07	8/10/2026
STW-1SW	8/10/2026
STW-1DP	8/10/2026
STW-1SG	8/10/2026[2]
STW-2	8/10/2026
STW-3	8/10/2026

1 – Monitoring location was dry, no surface water level was measured.
2 - Monitoring location obscured by vegetation

3.3 Water Level and Sample Collection

Monitoring wells were purged with a peristaltic pump until water quality parameters stabilized. Field measurements of pH, turbidity, conductivity, dissolved oxygen, temperature, and oxidation reduction potential were recorded on a field data form, which is maintained as part of the field records and provided in **Appendix B**. After water quality parameters stabilized, water samples were collected and tested for the analytes listed in **Table 4**. For quality control, one field duplicate sample was collected for each CCR unit per sampling event (two duplicate samples total per event; collected at monitoring wells MW-11 and MW-33). The following deviations from the Hydrogeologic Monitoring Plan for CCR Compliance were noted during the third quarter 2026 sampling event:

- Water levels were not measured in August 2026 at piezometers PZ-21 and PZ-22 due to inaccessibility (deep wetland muck).
- In August 2026, water levels were not measured at staff gauges SG-01, SG-05, and SG-06 due to no water at the monitoring points.

3.4 Analytical Testing

Groundwater samples collected from the monitoring wells listed in **Table 2** were analyzed for the constituents listed in **Table 4**.

Table 4 | Constituents of Interest	
Constituents for Assessment Monitoring	
Antimony	Mercury
Arsenic	Molybdenum
Barium	Nickel
Beryllium	Radium-226
Boron	Radium-226/228
Cadmium	Radium-228
Calcium	Selenium
Chloride	Silver
Chromium	Sulfate
Cobalt	Thallium
Copper	Total Dissolved Solids (TDS)
Fluoride	Vanadium
Iron	Zinc
Lead	Additional Parameters
Lithium	Total Suspended Solids (TSS)

3.5 Data Validation and Management

Data validation and data management tasks were performed pursuant to the Hydrogeologic Monitoring Plan. Data validation was performed for sampling dates provided in **Table 2**. Data validation was conducted to eliminate any data that did not meet validation criteria and to designate a data qualifier for any data quality limitation discovered.

Samples and quality control (QC) data for the reporting period were reviewed and evaluated, and no samples were rejected. Most QC analyses were within reportable limits; however, when QC was outside control limits, samples were reported as estimated. Data analyses required minimal qualifications, and the data were usable, even when qualified. Data validation reports are contained in **Appendix C**.

4.0 Monitoring Results

4.1 Water Levels and Groundwater Flow Direction

A potentiometric contour map was developed for the third quarter 2026 sampling event using the data provided in **Table 5**. The map displays the groundwater elevations and inferred potentiometric contours, and is provided as **Appendix A**. A hydrograph illustrating groundwater levels in monitoring wells near the Units 1/2 Impoundment for the November 2022 through August 2026 monitoring period is shown in **Figure 6.** Groundwater around the perimeter of the Units 1/2 Impoundment ranged from approximately 578.30 (MW-31) to 582.55 (MW-06) feet above mean sea level (ft AMSL) during this period. A hydrograph illustrating groundwater levels in perimeter wells surrounding the Unit 3A/B Impoundments (**Figure 7)** indicates groundwater elevation beneath the impoundment ranged from 578.33

(MW-09) to 584.40 (MW-12) ft AMSL during the November 2022 through August 2026 monitoring period.

Groundwater flow direction beneath the CCR impoundments is inferred to be generally radial, flowing toward the Grand River, the North Channel, and the Internal Wetland. Potentiometric contours created from the groundwater elevations in **Table 5** show north and northwestern flow beneath the Unit 3A/B Impoundments toward the Grand River, consistent with previous observations. Flow beneath the Units 1/2 Impoundment is generally eastward toward the Internal Wetland, with the Internal Wetland having been consistently shown to be a hydraulic sink for Harbor Island. Groundwater flow near the North Channel outlet near SG-02 and MW-31 is inferred to be towards the north.

The groundwater flow direction observed at background wells MW-27, MW-33, and MW-34 is consistent with previous observations. Because groundwater typically converges on the Internal Wetland from both the west side, where the impoundments are located, and from the east side, where the background wells are located, it can be inferred that groundwater under the CCR impoundments cannot flow to the background monitoring well locations east of the Internal Wetland.

Table 5 | Groundwater and Surface Water Elevations in Third Quarter 2026

Well ID	Groundwater Elevation (8/10/2026)
MW-01R	580.72
MW-01RB	580.06
MW-02	580.21
MW-03	580.24
MW-04	580.21
MW-04R	580.02
MW-05	580.20
MW-06	580.32
MW-07	580.22
MW-08	580.09
MW-09	579.95
MW-09B	579.96
MW-10	580.47
MW-11	580.45
MW-12	580.81
MW-13	580.18
PZ-14	579.97
PZ-15	580.06
PZ-15B	579.74
MW-16	580.17
MW-17	580.18
MW-18	580.35
MW-19	580.26
MW-20	580.26

Table 5 | Groundwater and Surface Water Elevations in Third Quarter 2026	
Well ID	Groundwater Elevation (8/10/2026)
PZ-21	Inaccessible
PZ-22	Inaccessible
PZ-23	580.03
PZ-24	579.45
PZ-25	580.26
PZ-26	579.75
MW-27	580.41
MW-28	580.33
PZ-29	580.41
MW-30	580.53
MW-31	579.77
MW-32	580.01
MW-33	580.40
MW-34	580.09
MW-35	580.97
MW-36	580.66
MW-37	580.26
MW-38	580.21
MW-39	580.19
MW-40	579.45
MW-41	580.03
MW-42	580.14
MW-43	580.10
MW-44	579.86
MW-44B	579.91
PW-1	580.29
SG-01	DRY
SG-02	579.63
SG-03	DRY
SG-04R	DRY
SG-05	580.16
SG-06	DRY
SG-07	580.02
STW-1SG	Gauge obscured by vegetation
STW-1SW	580.08
STW-1DP	580.33
STW-2 (steel)	580.11
STW-3	580.07

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Table 6 | Groundwater Velocity Calculations							
Well Pair	Area of Harbor Island	Distance (ft)	Porosity[1]	Hydraulic Conductivity (ft/day)	Groundwater Elevation (ft/AMSL)	Hydraulic Gradient	Groundwater Velocity (ft/day)
PZ-25	Eastern	413	0.3	8.3422	580.26	0.0009	0.034
PZ-26					579.75		
PZ-25		400	0.3	8.3422	580.26	0.0004	0.011
PZ-23					580.03		
MW-01R	Western	247	0.3	6.2333	580.72	0.0008	0.017
MW-03					580.24		
MW-01R		274	0.3	6.2333	580.72	0.0009	0.018
MW-04					580.21		
MW-01R		226	0.3	6.2333	580.72	0.0009	0.019
MW-05					580.20		
MW-01R		262	0.3	6.2333	580.72	0.0004	0.009
MW-10					580.47		

1. Porosity value estimated using reference values for poorly sorted fine to medium sand (Freeze-Cherry, 1979).
2. Average hydraulic conductivity value from Golder (2022) on PZ-26.
3. Calculated by averaging hydraulic conductivity values from wells MW-01R, MW-02, MW-04, and MW-05 (Golder, 2022).

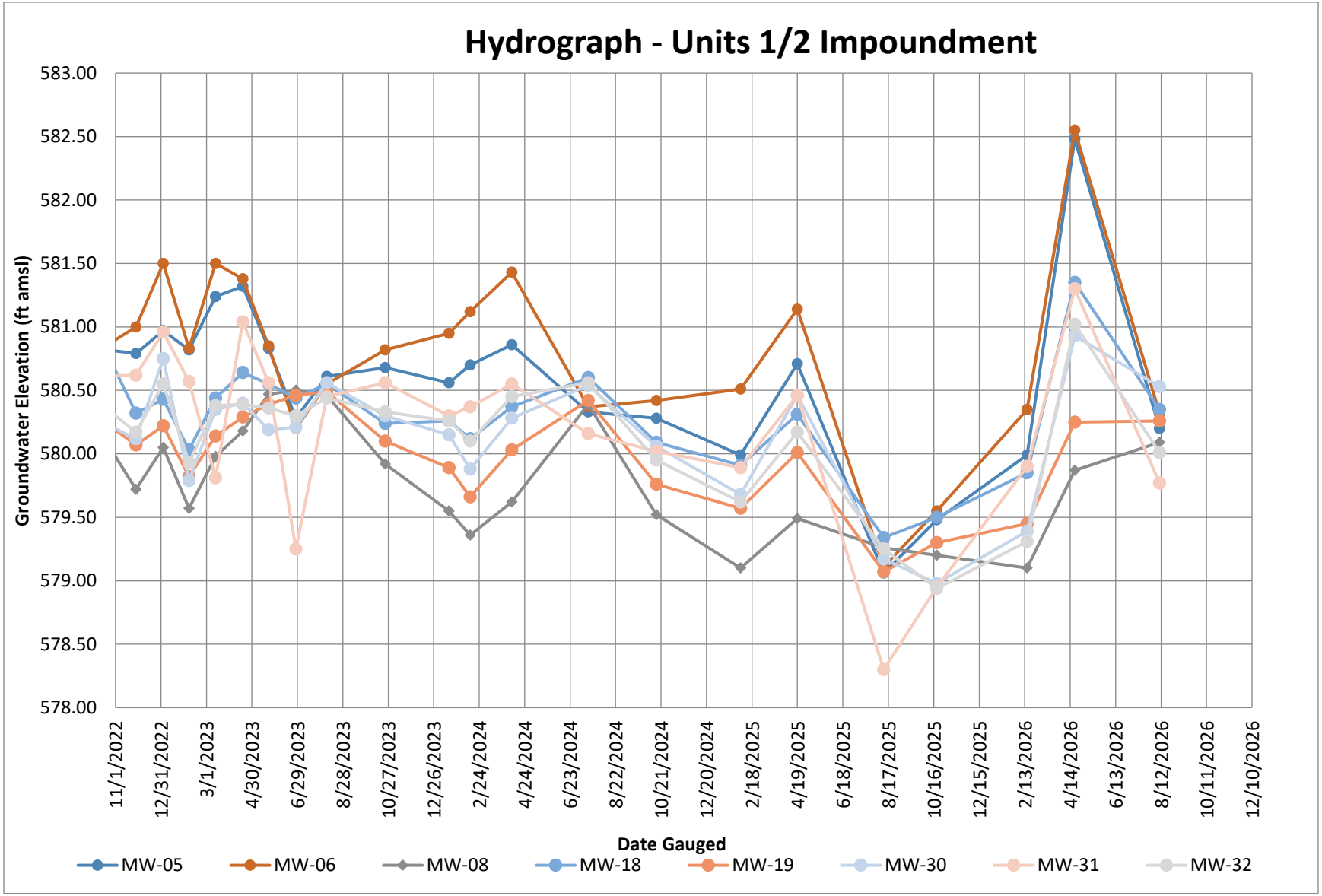


Figure 6 | Hydrograph of Wells Near Units 1/2 Impoundment

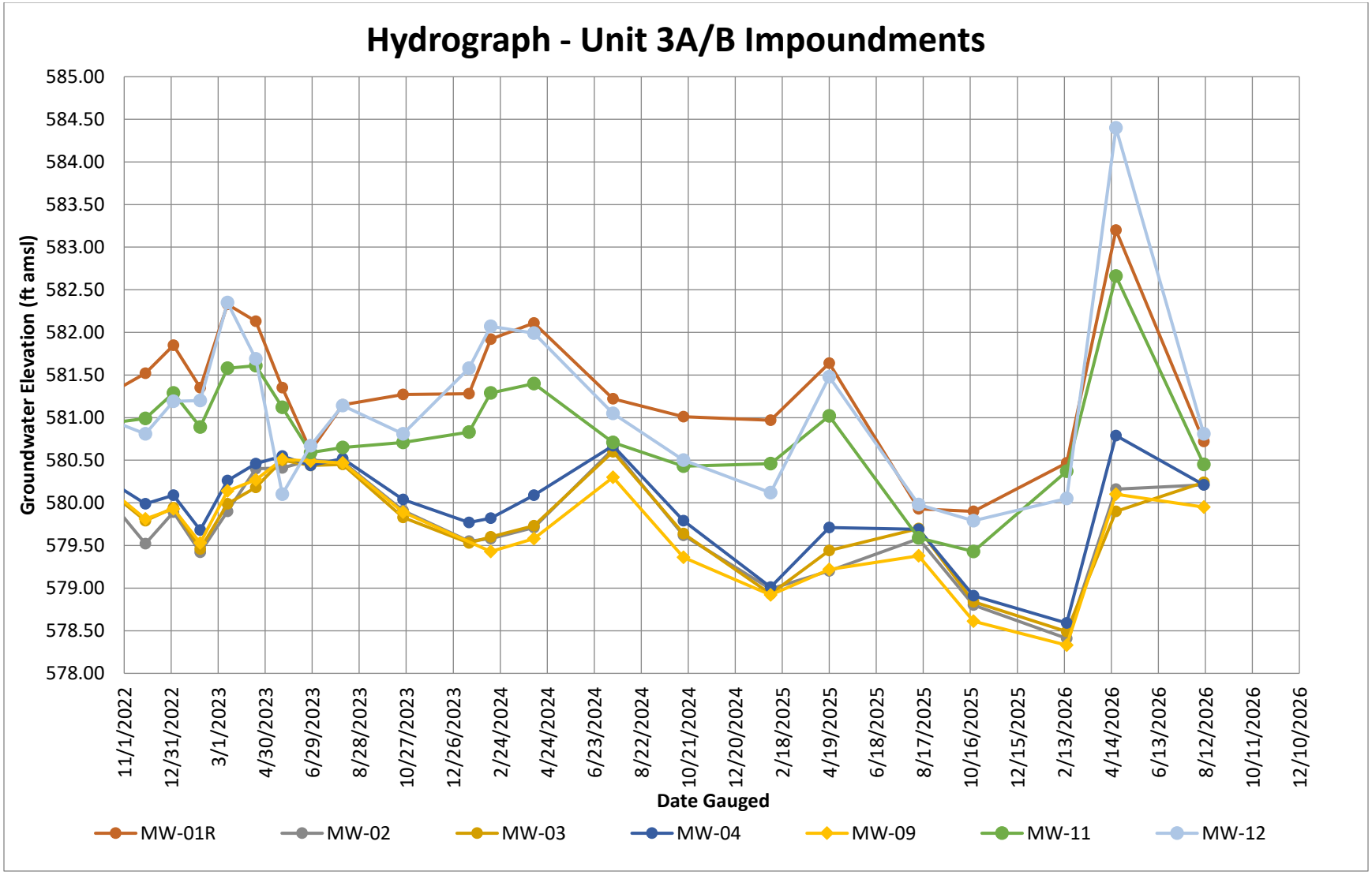


Figure 7 | Hydrograph of Wells and Piezometers Near Unit 3A/B Impoundments

Datalogging pressure transducers have been installed at the locations shown in **Figure 5**. Transducer data has been collected from December 21, 2023, through the most recent download on August 10, 2026. Several of the original 17 transducers have experienced internal failures or external damage, resulting in the following modifications to the transducer network:

- The transducer cable at staff gauge SG-05 was severed by wildlife and has not been replaced.
- The transducer cable at stilling well STW-2 were severed by ice flows in the Grand River. A new transducer was installed in a new steel STW-2 stilling well in March 2026.
- The stilling well STW-3 transducer experienced an internal memory failure and was replaced in April 2026.
- The monitoring well MW-09 transducer had an internal sensor error and recorded anomalous data. The transducer was replaced in March 2026.
- The staff gauge SG-07 transducer experienced an internal sensor error and recorded anomalous data. The transducer was replaced in April 2026.

The stilling well STW-1 monitoring point was reconfigured in November 2025 as stilling well STW-1SW, and shallow groundwater drive point STW-1DP. The STW-1 transducer was moved to drive point STW-1DP in November 2025. An additional transducer was installed in STW-1SW in August 2026.

Trends observed from the transducer dataset are as follows:

- Groundwater at monitoring well MW-31 is generally lower than the surface water elevation at staff gauge SG-02, indicating that groundwater flow from the North Pond of the Units 1/2 Impoundment is toward the north. The north pond is effectively dry at an elevation of 579.5 ft amsl, with a staff gauge reading of 0.83 ft. The groundwater elevation at MW-31 has been as much as approximately 1.5 feet below the wetland sediment surface, such as was observed during the second half of 2025. A hydrograph of the measurements is shown on **Figure 8**.
- For the majority of the record, particularly since May 2025, the groundwater elevation at MW-05 has been below the surface of the South Pond of the Units 1/2 Impoundment, indicating that precipitation falling on, or collecting on the pond infiltrates to groundwater. Due to significant snowmelt, precipitation, and the discharge of staged aquifer test water (approximately 300,000 gallons) in March and April 2026, the pond stage at SG-04R and groundwater at well MW-05 rose rapidly and nearly simultaneously. At a transducer reading of 580.4 ft amsl, the staff gauge reads 0.65 ft and the pond is effectively dry. A hydrograph of the measurements is shown on **Figure 9.**
- Groundwater at well MW-16, located on the south side of the Island near the South Channel, is higher than surface water at South Channel stilling well STW-2, indicating groundwater flow is toward the South Channel. Due to the loss of the STW-2 transducer in October 2024, the Lake Michigan stage data has been used as a proxy for the Grand

River[1] stage. New transducers were installed in stilling well STW-2 and staff gauge SG-07 in March and April 2026. A hydrograph of the measurements is shown on **Figure 10**.

- The surface water elevation at staff gauge SG-07, representing the Internal Wetland, is generally lower than groundwater at PZ-24, indicating groundwater discharge from the east side of the Island toward the Internal Wetland. However, in the summer months, the water level at PZ-24 has declined below the level of the Internal Wetland and the Grand River, due to high rates of evapotranspiration in the wooded areas east of the wetland. A hydrograph of the measurements is shown on **Figure 11**.
- On the western side of the Island, transducer measurements at stilling well STW-3, monitoring well MW-13, and piezometer PZ-14 indicate that groundwater at PZ-14, which is separated from the Grand River by a sheet-pile wall, generally flows north toward MW-13 before discharging to the Grand River around the north end of the wall. However, water levels at piezometer PZ-14 have been slightly lower than well MW-13 since May 2026. A hydrograph of the measurements is shown on **Figure 12.**
- A comparison of monitoring well MW-08 and staff gauge SG-07 evaluates groundwater-surface water interactions on the north side of the Internal Wetland. Well MW-08 is typically higher in elevation due to precipitation events when the Internal Wetland is at a low stage (i.e., winter months), resulting in groundwater discharge toward the Internal Wetland. However, when the Internal Wetland is high, well MW-08 is effectively in equilibrium with the wetland. A hydrograph of the measurements is shown on **Figure 13**.

[1] National Oceanic and Atmospheric Administration (NOAA) Tides and Currents website, station 9087031 (Holland, MI) - Water Levels - NOAA Tides & Currents

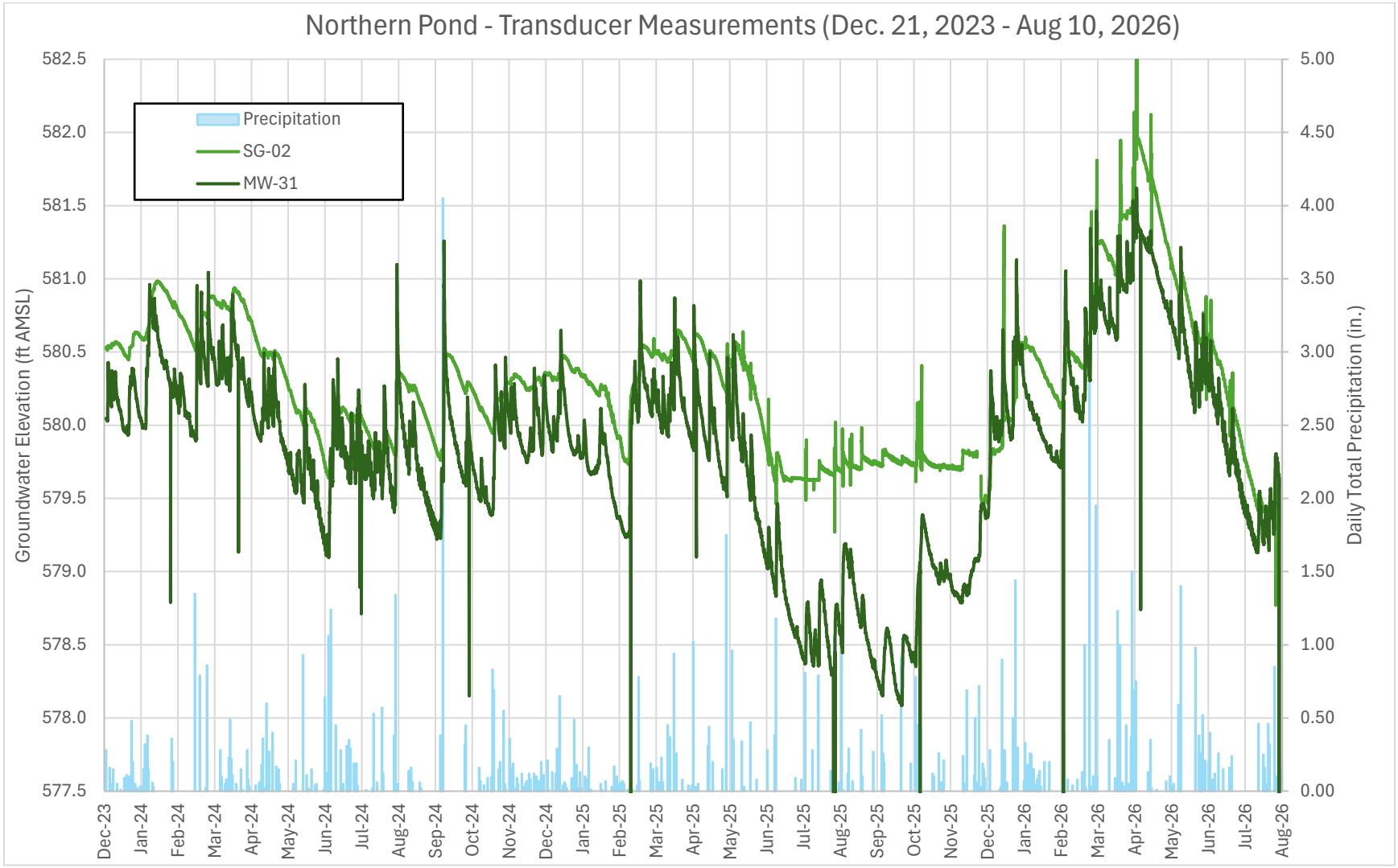


Figure 8 | Transducer Measurement Graph: Staff Gauge SG-02 and Monitoring Well MW-31

When the SG-02 transducer reads 579.5 ft amsl, the staff gauge reads 0.83 and the pond is effectively dry.

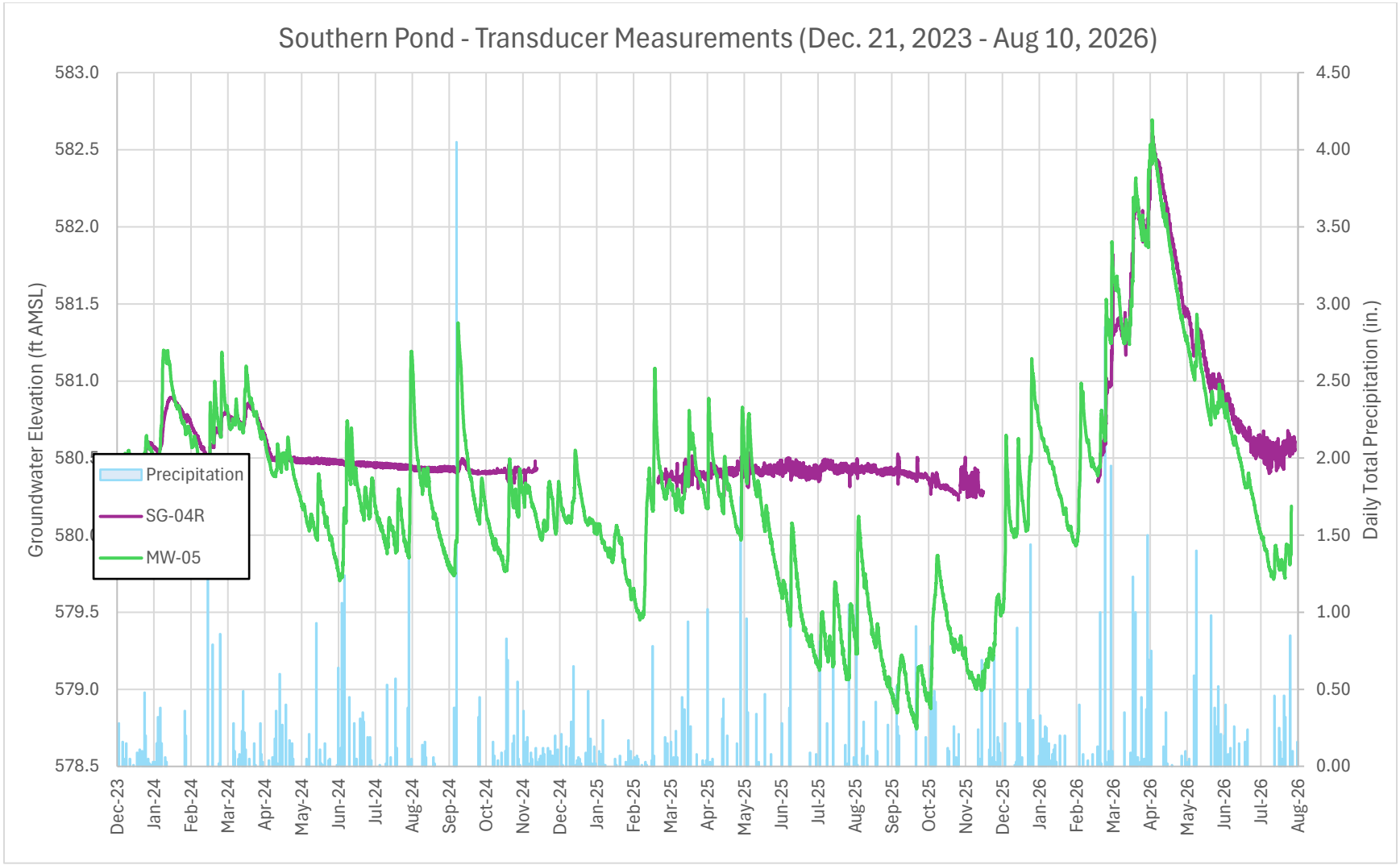


Figure 9 | Transducer Measurement Hydrograph: Staff Gauge SG-04R and Monitoring Well MW-05

When the SG-04R transducer reads 580.4 ft amsl, that is the elevation where the staff gauge reads 0.65 or effectively dry.

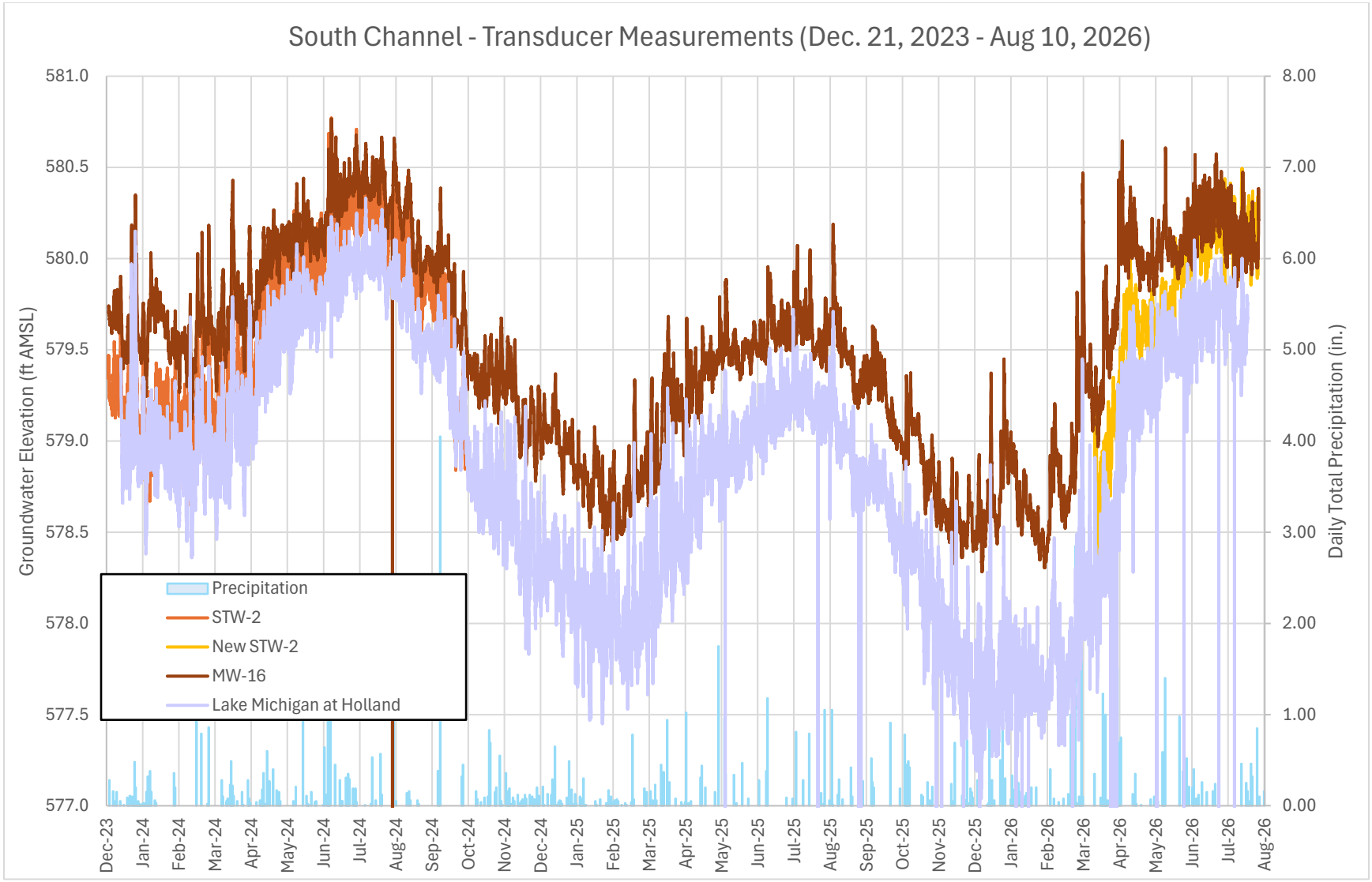


Figure 10 | Transducer Measurement Hydrograph: Stilling Well STW-2, Monitoring Well MW-16, and Lake Michigan at Holland (NOAA)

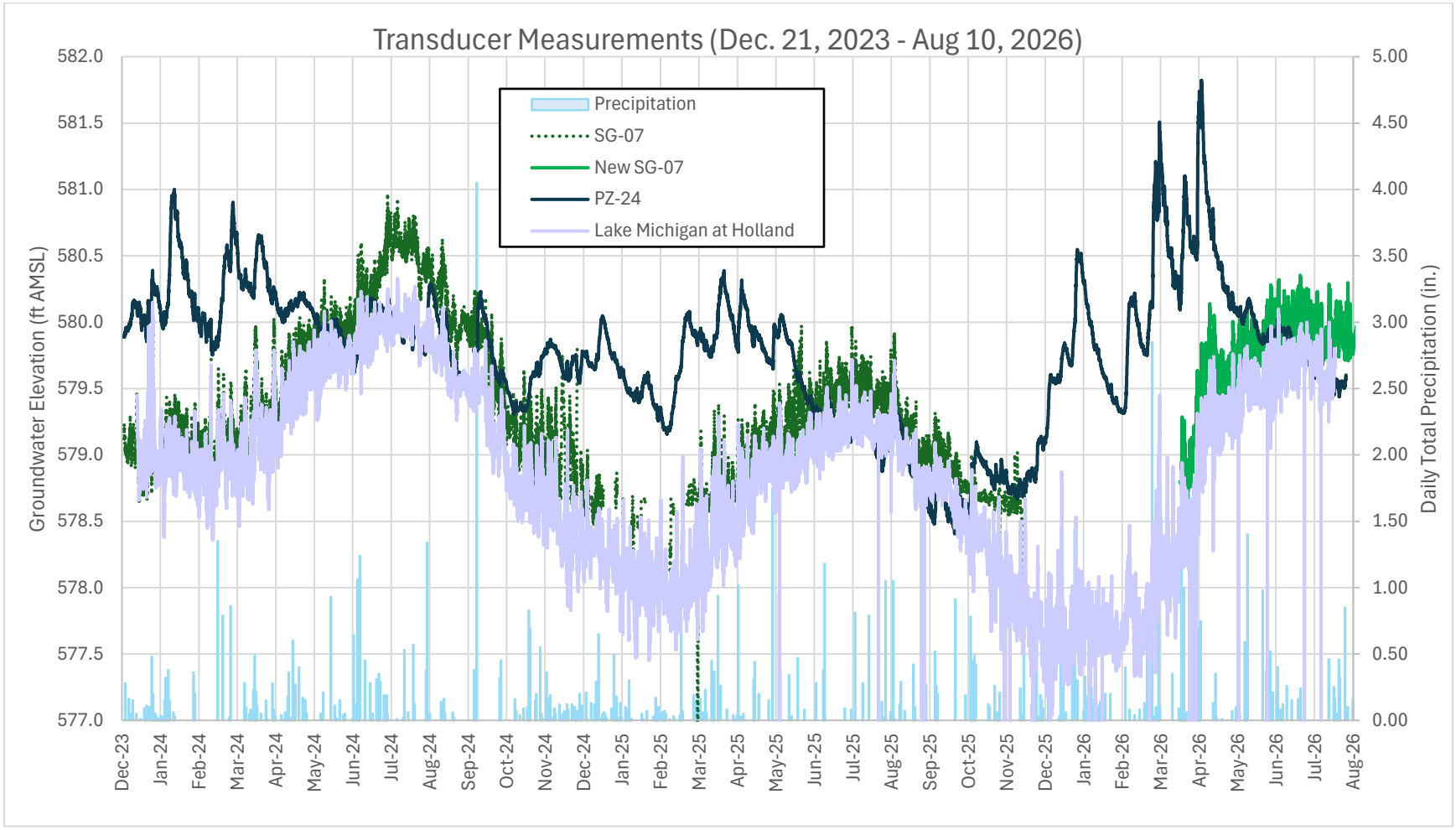


Figure 11 | Transducer Measurement Hydrograph: Staff Gauge SG-07, Piezometer PZ-24, and Lake Michigan at Holland (NOAA)

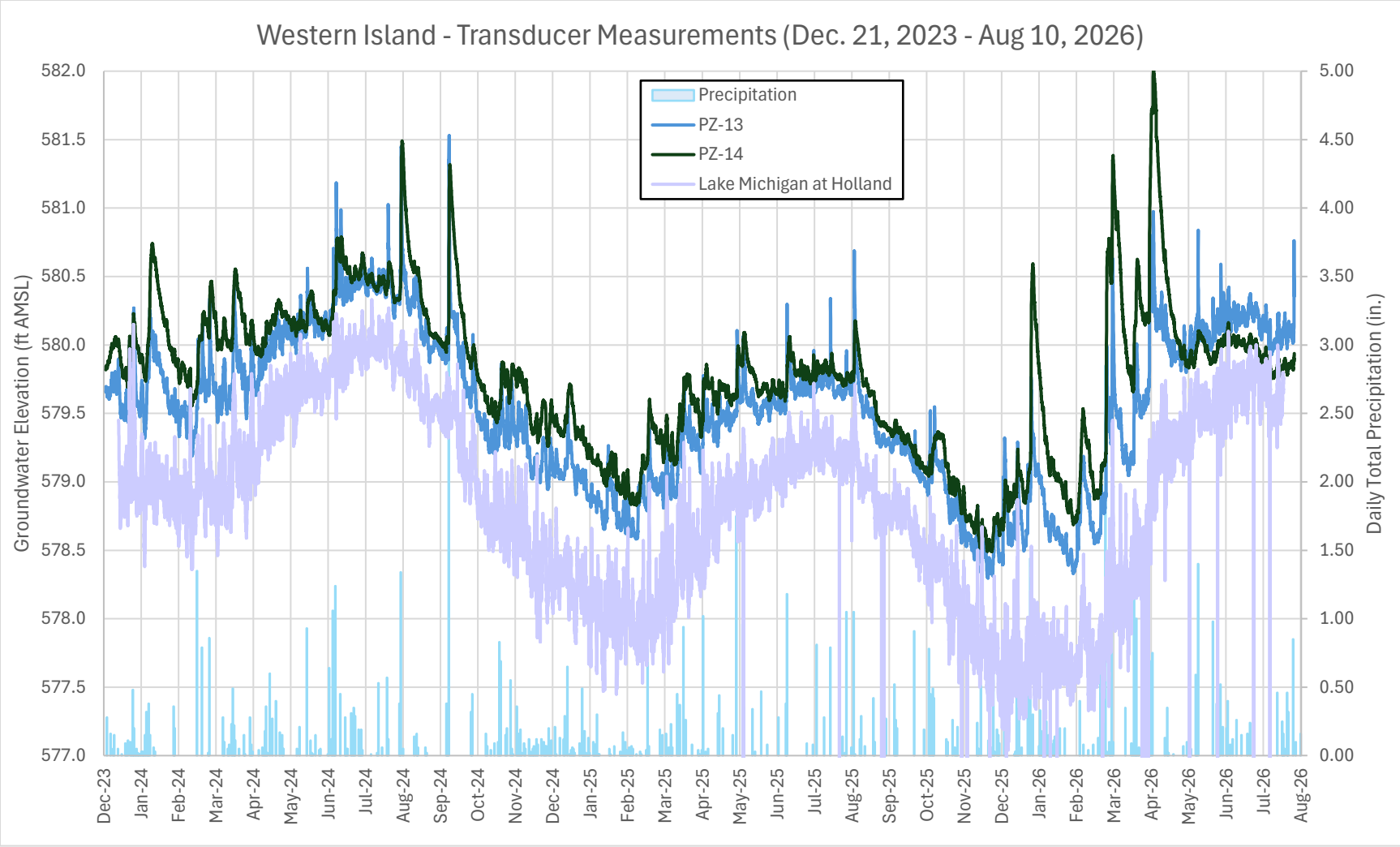


Figure 12 | Transducer Measurement Hydrograph: Stilling Well STW-3, Monitoring Well MW-13 Piezometer PZ-14, and Lake Michigan at Holland (NOAA)

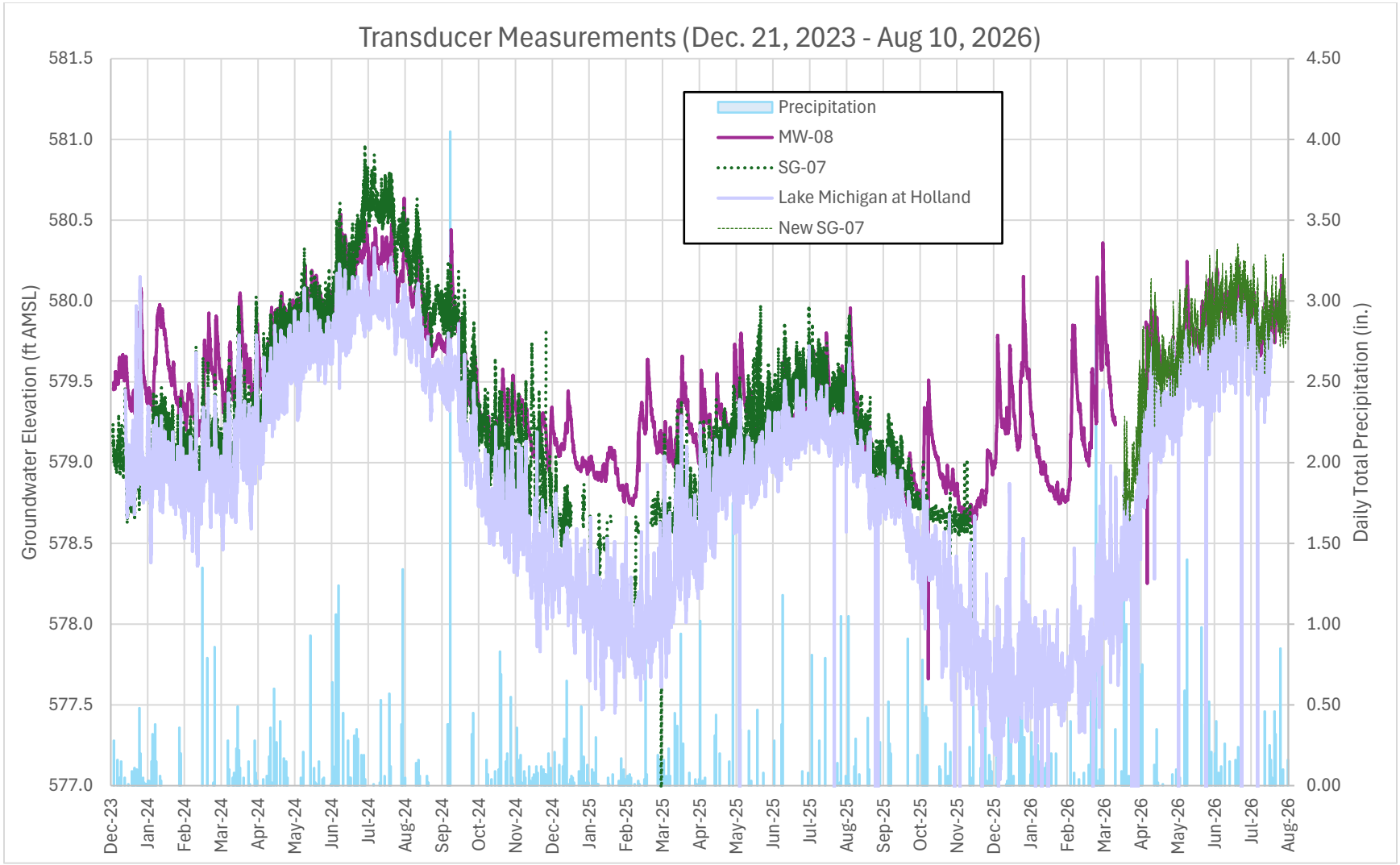


Figure 13 | Transducer Measurement Hydrograph: Staff Gauge SG-07, Monitoring Well MW-08, and Lake Michigan at Holland (NOAA)

4.2 Water Quality

In August 2026, an assessment monitoring event was conducted and the monitoring network provided in **Table 2** was sampled for the assessment monitoring constituents in **Table 4**. The water quality data collected to date is summarized in **Appendix D** and laboratory reports are provided as **Appendix E**.

4.2.1 Groundwater Protection Standards (GPS)

As required for assessment monitoring in Michigan Rule R 299.4441(9), the owner must establish GPS for each hazardous substance detected in the groundwater. The background value (95% upper tolerance limit [UTL]), maximum contaminant level (MCLs), applicable state cleanup criteria, and Site GPS for both CCR units are provided in **Table 7** from the HMP (HDR, 2025).

4.2.2 Identification of Groundwater Protection Standard (GPS) Exceedances

The August 2026 sampling data from compliance wells was compared to the GPS values provided in **Table 7**, and several COIs were found to exceed GPS at both CCR units. To determine if an exceedance of a GPS value was statistically significant, the LCL was calculated for each of the downgradient wells. The statistical output files are in **Appendix F**. Analytical data tables are contained in **Appendix D**.

For the last six monitoring events (April 2025 through August 2026), mercury has been analyzed by the low-level method (EPA Method 1631E), with a reporting limit of 0.5 nanograms per Liter (ng/L); previous samples were analyzed by EPA Method 7470A, with a reporting limit of 160 ng/L. Due to this change in analytical methods, mercury LCLs will be calculated from results generated using the low-level method after the eighth EPA Method 1631E monitoring event (i.e., first quarter 2027) utilizing the lower quantification levels.

Units 1/2 Impoundment

Concentrations that exceeded GPS at SSLs are provided in **Table 8** for the Units 1/2 Impoundment. The wells with SSLs over GPS following the August 2026 sampling event are consistent with previous well and constituent observations; the only change from the second quarter 2026 analysis is that the LCL of arsenic decreased to below GPS at well MW-36.

Table 7 | Background Values and State Groundwater Protection Standards for both Units 1/2 Impoundment and Unit 3A/B Impoundments

Parameter**	Site-Specific Background Level (UTL) (mg/L)	MCL (mg/L)	State Non-Res. Drinking Water Cleanup Criteria for Groundwater (mg/L)*	GSI (mg/L)*	GPS (mg/L)
Antimony	0.0012	0.0060	0.0060	0.13	0.0060
Arsenic	0.0040	0.010	0.010	0.010	0.010
Barium	0.58	2.0	2.0	1.3[1]	1.3
Beryllium	0.000059	0.0040	0.0040	0.036[1]	0.0040
Boron	4.0	NV	0.50	7.20	4.0
Cadmium	0.00015	0.0050	0.0050	0.0025[1]	0.0025[1]

Table 7 | Background Values and State Groundwater Protection Standards for both Units 1/2 Impoundment and Unit 3A/B Impoundments					
Parameter**	Site-Specific Background Level (UTL) (mg/L)	MCL (mg/L)	State Non-Res. Drinking Water Cleanup Criteria for Groundwater (mg/L)*	GSI (mg/L)*	GPS (mg/L)
Calcium	250	NV	N/A	N/A	N/A
Chloride	120	NV	250	50	120
Chromium	0.042	0.10	0.10	0.12[1]	0.10
Cobalt	0.0021	0.0060	0.10	0.10	0.0060
Copper	0.020	1.30	1.0	0.021[1]	0.021[1]
Fluoride	0.45	4.0	2.0	NV	2.0
Iron	83	0.30	0.30	NV	83
Lead	0.0016	0.015	0.0040	0.014[1]	0.0040
Lithium	0.10	0.040	0.35	0.44	0.10
Mercury	0.00016	0.0020	0.0020	0.0000013	0.0000013
Molybdenum	0.0093	0.10	0.210	3.2	0.10
Nickel	0.023	NV	0.10	0.12[1]	0.10
Radium 226/228 (pCi/L)	2.6	5.0	NV	NV	5.0
Selenium	0.00089	0.050	0.050	0.0050	0.0050
Silver	0.00011	0.10	0.098	0.00020	0.00020
Sulfate	100	250	250	NV	250
Thallium	0.000075	0.0020	0.0020	0.0037	0.0020
Total Dissolved Solids	950	500	500	500	950
Vanadium	0.00093	NV	0.0062	0.027	0.0062
Zinc	0.038	5.00	5.00	0.27[1]	0.27[1]

*Cleanup Criteria Requirements for Response Activity (Formerly the Part 201 Generic Cleanup Criteria and Screening Levels) found in R 299.44 Generic groundwater cleanup criteria.
**Metals data is analyzed and reported as total metals.
NV=no value
[1]Per Footnote G of Table 1 Cleanup Criteria Requirements for Response Activity (Formerly the Part 201 Generic Cleanup Criteria and Screening Levels) of the Groundwater Surface Water (GSI) criteria list, values noted are calculated based on the hardness (expressed as CaCO3) of the receiving waters. Surface water sample from the Grand River (SG-01) had a hardness of 270 mg/L that was used in the calculation of specific GSI values. The Grand River discharges into Lake Michigan, thus the GSI Criteria for Surface Water Protected for Drinking Water Use, is provided above.

Unit 3A/B Impoundments

Concentrations that exceed GPS at SSLs are provided in **Table 9** for the Unit 3A/B Impoundments. The wells with SSLs over GPS following the August 2026 sampling event are consistent with previous well and constituent observations; the only change from the second quarter analysis is that the LCL of chloride decreased to below GPS at well MW-03.

Lead exceedances at MW-36 and MW-38 remain isolated and are not accompanied by elevated boron, lithium, fluoride, sulfate, or TDS concentrations that characterize CCR-affected groundwater at the Site.

Table 8 | August 2026 LCLs that Exceed GPS for the Units 1/2 Impoundment				
Well	Constituent*	Unit	95% LCL	State GPS
MW-06	Barium	mg/L	1.4	1.3
	Boron	mg/L	8.8	4.0
	Lithium	mg/L	0.16	0.10
	Total Dissolved Solids	mg/L	1200	950
MW-07	Boron	mg/L	10	4.0
MW-08	Arsenic	mg/L	0.034	0.010
	Boron	mg/L	5.4	4.0
MW-10	Boron	mg/L	16	4.0
	Chloride	mg/L	260	120
	Fluoride	mg/L	4.8	2.0
	Lithium	mg/L	0.86	0.10
	Sulfate (as SO4)	mg/L	400	250
	Total Dissolved Solids	mg/L	1800	950
MW-18	Arsenic	mg/L	0.024	0.010
	Fluoride	mg/L	3.6	2.0
	Sulfate (as SO4)	mg/L	650	250
	Total Dissolved Solids	mg/L	1200	950
MW-19	Sulfate (as SO4)	mg/L	890	250
	Total Dissolved Solids	mg/L	1700	950
MW-30	Lithium	mg/L	0.12	0.10
	Sulfate (as SO4)	mg/L	770	250
	Total Dissolved Solids	mg/L	2200	950
MW-31	Boron	mg/L	4.7	4.0
	Fluoride	mg/L	4.1	2.0
MW-32	Lithium	mg/L	0.12	0.10
MW-36	Lead	mg/L	0.0084	0.004

Table 9 | August 2026 LCLs that Exceed GPS for Unit 3A/B Impoundments				
Well	Constituent*	Unit	95% LCL	State GPS
MW-01R	Boron	mg/L	95	4.0
	Fluoride	mg/L	11	2.0
	Lithium	mg/L	2.1	0.10
	Sulfate (as SO4)	mg/L	310	250
	Total Dissolved Solids	mg/L	2300	950
MW-02	Boron	mg/L	97	4.0
	Chloride	mg/L	140	120
	Fluoride	mg/L	9.4	2.0
	Lithium	mg/L	1.3	0.10
	Total Dissolved Solids	mg/L	1800	950
MW-03	Total Dissolved Solids	mg/L	1700	950
MW-04	Sulfate (as SO4)	mg/L	510	250
	Total Dissolved Solids	mg/L	1700	950
MW-09	Boron	mg/L	5.1	4.0
	Fluoride	mg/L	2.3	2.0
	Lithium	mg/L	0.29	0.10
	Sulfate (as SO4)	mg/L	480	250
	Total Dissolved Solids	mg/L	1400	950
MW-10	Boron	mg/L	16	4.0
	Chloride	mg/L	260	120
	Fluoride	mg/L	4.8	2.0
	Lithium	mg/L	0.86	0.10
	Sulfate (as SO4)	mg/L	370	250
	Total Dissolved Solids	mg/L	1800	950
MW-11	Boron	mg/L	5.3	4.0
MW-38	Lead	mg/L	0.0092	0.004

Surface Water Monitoring

Surface water samples collected during the August 2026 sampling event were analyzed for the same list of analytes as the groundwater monitoring locations. For comparison purposes only, the surface water sample results were compared to the GPS, even though groundwater standards are not applicable to surface water. The list of constituents that exceeded the GPS are provided in **Table 10**.

The surface water sample from SG-02 was determined to have concentrations of boron, fluoride, sulfate, TDS, and lead that exceeded GPS. The SG-02 water sample was collected in the north pond of the Units 1/2 Impoundment, with the surface water depth in the pond being approximately 0.1 feet. It is speculated that the very low water stage, with the water in direct contact with CCR in the Impoundment, resulted in elevated CCR constituents during this

sampling event. Each of these analytes, except lead, has exceeded GPS in one or more previous samples collected at SG-02.

Table 10 | Surface Water Sample Summary

Surface Water Sample Location	Date Sampled	Waterbody Monitored	Constituents that Exceeded GPS*
SG-02	8/13/2026	Units 1/2 Impoundment	Boron, Fluoride, Sulfate, TDS, Lead
SG-04R	8/13/2026	Units 1/2 Impoundment	Dry - No Sample Collected
SG-05	8/13/2026	Internal Wetland West	Dry - No Sample Collected
SG-07	8/13/2026	Internal Wetland South	None

*GPS criteria not for regulatory compliance, only used as a reference value for comparison to groundwater concentrations.

5.0 Remedy Selection Progress Update

5.1 Third Quarter 2026 Investigative Activities

A Wetland Functional Assessment and Wetland Type Determination was completed in the third quarter of 2026 to evaluate the quality and ecological functions of the onsite wetlands. In July 2026, HDR personnel performed a Level 1 Landscape Assessment and Level 2 Rapid Wetland Assessment of the wetlands previously delineated at Harbor Island. Initial findings of the assessment indicate that the wetlands at Harbor Island exhibit high functional value, exhibiting ecological conditions and the potential to provide ecological and societal services when compared to other wetlands, regardless of type. Primary wetland types at the Site consist of submergent and emergent marshes, southern wet meadows, ditches, and disturbed uplands. Additionally, a Floristic Quality Assessment of the vegetation observed at Harbor Island is underway. Findings of the wetland functionality assessment, type determination, and floristic quality assessment are being incorporated into the remediation alternatives for Harbor Island, ensuring that potential mitigation measures comply with any legal requirements for in-kind replacement during potential future remediation activities.

5.2 Remedy Progress Selection

In the third quarter of 2026, remedial alternatives were developed for Harbor Island groundwater and presented in a Remedial Alternatives Assessment for internal use by the City to compare conceptual designs and consider benefits and challenges of various alternatives. Combinations of the following remediation technologies were evaluated as alternatives:

1. Excavation
2. In-Situ Stabilization
3. Slurry Wall
4. Capping
5. Groundwater Extraction and Treatment

Prior to remedy selection, a public meeting will be held to present the remediation alternatives to the public. After remedy selection, a Remediation Action Plan will be prepared for submittal to

EGLE. It is anticipated the Remedial Action Plan will be submitted to EGLE in approximately the first quarter 2027.

5.3 North Channel CCR Removal Project

The design, bid specifications, and procurement for CCR removal from the North Channel (**Figure 2**) were completed in the third quarter 2026. To facilitate the CCR removal action, a new National Pollutant Discharge Elimination System (NPDES) permit application and a Joint Permit Application (JPA) has been filed with EGLE and is awaiting review and approval. The construction is scheduled to be completed during the fourth quarter 2026 or first quarter 2027, depending on permit application approvals.

The fourth quarter 2026 groundwater monitoring and sampling event is scheduled to be performed in October 2026.

6.0 Summary

The following observations are based on CCR Rule compliance groundwater monitoring during the third quarter of 2026:

- The third quarter 2026 groundwater sampling event was conducted in August 2026.
- Groundwater flow measured in the third quarter 2026 in the vicinity of the Units 1/2 Impoundment is generally radial, with components flowing eastward toward the Internal wetland, north toward the Northern wetland, south toward MW-05, and west toward the Grand River.
- Groundwater flow measured in the third quarter 2026 in the vicinity of the Unit 3A/B Impoundments is generally radial, with the highest elevations observed at monitoring wells MW-12 and MW-01R.
- Areas of slight groundwater depressions were observed in the third quarter 2026. The depressions on the Island develop when evapotranspiration rates exceed recharge rates from precipitation, or the rate at which groundwater may flow laterally from the surrounding surface water.
- The LCLs for the Units 1/2 Impoundment were re-calculated after the August 2026 assessment monitoring event and were compared to GPS values. Similar SSLs over GPS were identified for the Units 1/2 Impoundment as in previous monitoring events, with no new GPS exceedances. The LCL of arsenic decreased to below GPS at well MW-36 following the third quarter sampling event.
- The LCLs for the Unit 3AB Impoundments were re-calculated after the August 2026 assessment monitoring event and were compared to GPS values. Similar SSLs over GPS were identified for the Unit 3A/B Impoundments as in previous monitoring events, with no new GPS exceedances. The LCL of chloride decreased to below GPS at well MW-03 following the third quarter sampling event.
- Investigative activities completed in the third quarter of 2026 included a Functional Wetland Assessment and Wetland Type Determination.

7.0 References

ERM, 2017. Groundwater Monitoring System Certification for the Grand Haven Board of Light and Power, Environmental Resources Management Michigan, Inc. November 2017.

Golder Associates, Inc., 2018. 2017 Annual Groundwater Monitoring and Corrective Action Report. January 30, 2018.

Golder Associates, Inc., 2018. Notice of Groundwater Protection Standard Exceedance. October 15, 2018.

Golder Associates, Inc., 2019. CCR Impoundment Ash Delineation at the J.B. Sims Generating Station. October 14, 2019.

Golder Associates, Inc., 2020. 2019 Annual Groundwater Monitoring & Corrective Action Report. January 31, 2020.

Golder Associates, Inc., 2022. Field Summary Report of Results from Approved Work Plan -Piezometer Installation and Additional Data Collection. February 15, 2022.

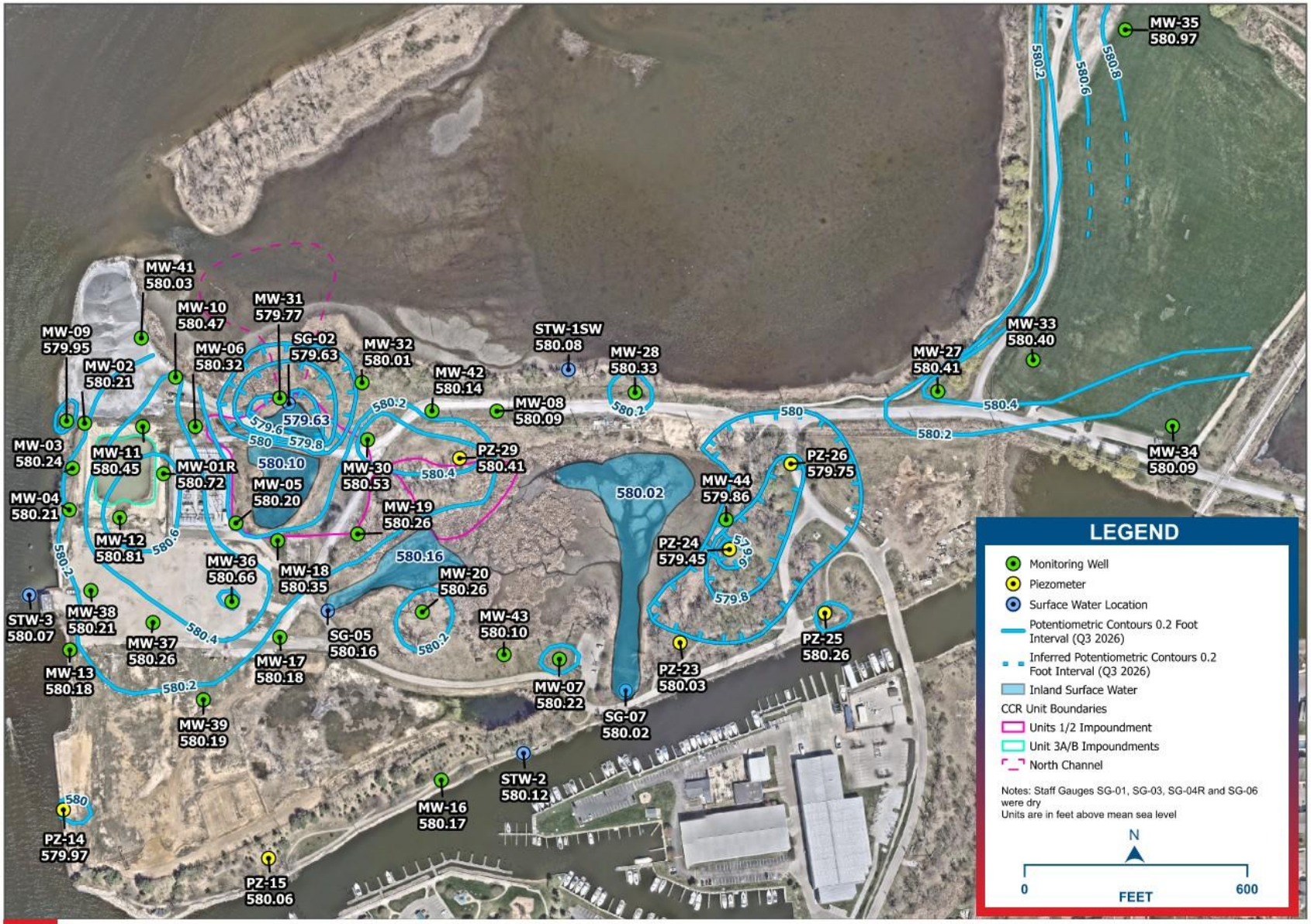
HDR, 2025, Hydrogeologic Monitoring Plan. December 1, 2025.

HDR, 2025b. Former J.B. Sims Generating Station Remedial Investigation Data Collection Work Plan. July 8, 2025.

Appendix A

Groundwater Contour Map
August 10, 2026 Water Level Measurements

Renew Harbor Island
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Renew Harbor Island HDR

FORMER J.B. SIMS GENERATING STATION
CITY OF GRAND HAVEN

Appendix B

Field Data Sheets

Water Sample Collection Field Data Sheet

Site Name: CHH1 Well ID.: MW-01R

Sample I.D.(match bottle and COC form exactly): MW-01R

Personnel: AB

Date: 8/11/26 Static Depth to Water (ft, btoc) 7.44

Date/Time Sample Collected (match bottle and COC form exactly): 8/11/26; 1340

Sample Method: LF Peri

Water level meter, pump, and tubing decontaminated prior: (Yes) No

Sample QC: Duplicate Yes (No) Duplicate Sample ID: ——

Sample QC: Equipment Blank Yes (No) Equip Blank Sample ID: ——

Well Purging Data (Fill In All Blanks)

Depth of Sample Collection (pump depth) (ft, btoc) dedicated tubing

Time Completed: 1400 Total Purge 12 Units L

Field Measurements:

Time (24 hour)	Amount purged (ml)	pH	COND (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)
1310			START					
1314	1	7.50	3.33	5.90	0.15	18.0	-299.4	7.74
1318	2	7.48	3.12	7.03	0.08	18.2	-277.0	7.74
1322	3	7.51	3.06	1.75	0.06	18.2	-298.2	7.74
1326	4	7.52	3.07	2.40	0.06	18.2	-309.6	7.74
1330	5	7.55	3.12	2.37	0.06	18.1	-314.4	7.74
1334	6	7.56	3.16	2.54	0.05	18.1	-315.9	7.74
1338	7	7.57	3.17	2.64	0.05	18.0	-317.2	7.74

Flow Rate ~250 mL/min

Pump controller setting 45%

General Comments:

Water Sample Collection Field Data Sheet

Site Name: GHH1 Well ID.: MW-01RB

Sample I.D.(match bottle and COC form exactly): MW-01RB

Personnel: AB

Date: 8/11/2020 Static Depth to Water (ft, btoc) 8.62

Date/Time Sample Collected (match bottle and COC form exactly): 8/11/20, 1240

Sample Method: LF Peri

Water level meter, pump, and tubing decontaminated prior: (Yes) No

Sample QC: Duplicate Yes (No) Duplicate Sample ID: —

Sample QC: Equipment Blank Yes (No) Equip Blank Sample ID: —

Well Purging Data (Fill In All Blanks)

Depth of Sample Collection (pump depth) (ft, btoc) dedicated tubing

Time Completed: 1302 Total Purge 13 Units L

Field Measurements:

Time (24 hour)	Amount purged (ml)	pH	COND (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)
1212			START					
1216	1	6.93	1.07	24.5	0.35	15.5	-120.5	8.62
1220	2	6.92	1.09	4.10	0.21	15.5	-129.7	8.62
1224	3	6.92	1.10	1.34	0.15	15.5	-137.3	8.62
1228	4	6.92	1.11	7.11	0.15	15.6	-140.1	8.62
1232	5	6.92	1.12	1.32	0.13	15.1	-141.7	8.62
1236	6	6.92	1.11	2.23	0.12	15.4	-142.4	8.62
1240	7	6.92	1.12	1.46	0.13	15.3	-142.8	8.62

Flow Rate ~250 mL/min

Pump controller setting 35%

General Comments:

Water Sample Collection Field Data Sheet

Site Name: GHHI Well ID.: MW-02

Sample I.D.(match bottle and COC form exactly): MW-02

Personnel: AB

Date: 8/12/26 Static Depth to Water (ft, btoc) 15.43

Date/Time Sample Collected (match bottle and COC form exactly): 8/12/26; 1144

Sample Method: LF Peri

Water level meter, pump, and tubing decontaminated prior: (Yes) No

Sample QC: Duplicate Yes (No) Duplicate Sample ID: ———

Sample QC: Equipment Blank Yes (No) Equip Blank Sample ID: ———

Well Purging Data (Fill In All Blanks)

Depth of Sample Collection (pump depth) (ft, btoc) dedicated tubing

Time Completed: 1230 Total Purge 9.5 Units L

Field Measurements:

Time (24 hour)	Amount purged (ml)	pH	COND (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)
1100			START					
1104	.4	7.18	3.67	103	0.38	17.1	-137.5	~~15.46~~ 15.76
1108	.8	7.16	3.88	59.3	0.22	17.1	-135.5	16.03
1112	1.2	7.14	3.93	42.9	0.39	16.5	-144.1	16.19
1116	1.6	7.14	3.98	39.2	0.16	16.3	-155.6	16.40
1120	2.0	7.14	4.06	25.0	0.11	16.0	-162.1	16.51
1124	2.4	7.14	4.08	22.3	0.10	15.7	-165.2	16.59
1128	2.8	7.14	4.12	19.0	0.09	15.5	-167.7	16.66
1132	3.2	7.14	4.14	15.9	0.10	15.4	-170.2	16.72
1136	3.6	7.14	4.15	13.5	0.11	15.4	-172.0	16.74
1140	4.0	7.13	4.15	11.0	0.10	15.7	-173.6	16.77
1144	4.4	7.13	4.15	9.67	0.10	15.6	-175.2	16.79

Flow Rate ~100mL/min

Pump controller setting 40%

General Comments:

Water Sample Collection Field Data Sheet

Site Name: GHHI Well I.D.: MW-03

Sample I.D. (match bottle and COC form exactly): MW-03

Personnel: AB

Date: 8/13/26 Static Depth to Water (ft, btoc): 12.95

Date/Time Sample Collected (match bottle and COC form exactly): 8/13/26; 1034

Sample Method: LF Peri

Water level meter, pump, and tubing decontaminated prior: (Yes) No

Sample QC: Field Duplicate Yes (No) Duplicate Sample ID: —

Sample QC: Equipment Blank Yes (No) Equip Blank Sample ID: —

Well Purging Data (Fill in All Blanks)

Depth of Sample Collection (pump intake depth; ft, btoc): dedicated tubing

Time Completed: 1102 Total Purge: 13 Units: L

Field Measurements:

Time (24 hour)	Amount purged (L)	pH	SPC (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)
1002	—	—	—	START	—	—	—	—
1006	1	7.24	2.68	5.14	0.27	15.1	-115.1	13.21
1010	2	7.27	2.69	4.47	0.17	15.1	-144.5	13.33
1014	3	7.28	2.70	8.26	0.12	15.1	-162.6	13.43
1018	4	7.28	2.71	1.90	0.17	15.3	-171.3	13.43
1022	5	7.28	2.70	3.39	0.12	15.4	-178.1	13.45
1026	6	7.28	2.70	3.23	0.11	15.3	-182.6	13.46
1030	7	7.28	2.70	1.47	0.10	15.3	-184.1	13.47
1034	8	7.28	2.69	2.16	0.11	15.3	-186.3	13.47

Flow Rate: ~250 mL/min

Pump Controller Setting: 40%

General Comments:

Water Sample Collection Field Data Sheet

Site Name: GHHI Well I.D.: MW-04

Sample I.D. (match bottle and COC form exactly): MW-04

Personnel: F. Davis Ray

Date: 8/13/26 Static Depth to Water (ft, btoc): 11.28

Date/Time Sample Collected (match bottle and COC form exactly): 8/13/26 1210

Sample Method: Peristaltic

Water level meter, pump, and tubing decontaminated prior: (Yes) No

Sample QC: Field Duplicate Yes (No) Duplicate Sample ID: _____

Sample QC: Equipment Blank Yes (No) Equip Blank Sample ID: _____

Well Purging Data (Fill in All Blanks)

Depth of Sample Collection (pump intake depth; ft, btoc): Dedicated tubing

Time Completed: 1245 Total Purge: 4.5 Units: L

Field Measurements:

1135 Time (24 hour)	Amount purged (L)	pH	SPC (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)
1140	0.75	7.47	0.004	9.93	8.03	26.1	106.4	11.43
1145	1.5	7.04	0.56	5.04	0.62	17.8	-99.1	11.51
1150	2.25	7.05	2.09	2.57	0.29	17.6	-115.8	11.60
1155	3.0	7.04	2.11	6.58	0.30	17.9	-120.0	11.62
1200	3.75	7.03	2.12	2.68	0.28	17.8	-122.0	11.63
1205	4.5	7.03	2.13	4.05	0.27	17.8	-124.1	11.64

Flow Rate: ~150 mL/min

Pump Controller Setting: 50%

General Comments:

Water Sample Collection Field Data Sheet

Site Name: CHHI Well I.D.: MW-04R

Sample I.D. (match bottle and COC form exactly): MW-04R

Personnel: AB

Date: 8/13/26 Static Depth to Water (ft, btoc): ~~9.03~~ 8.97

Date/Time Sample Collected (match bottle and COC form exactly): 8/13/26; 1200

Sample Method: LF Peri

Water level meter, pump, and tubing decontaminated prior: (Yes) No

Sample QC: Field Duplicate Yes (No) Duplicate Sample ID: ———

Sample QC: Equipment Blank Yes (No) Equip Blank Sample ID: ———

Well Purging Data (Fill in All Blanks)

Depth of Sample Collection (pump intake depth; ft, btoc): dedicated tubing

Time Completed: 1230 Total Purge: 13 Units: L

Field Measurements:

Time (24 hour)	Amount purged (L)	pH	SPC (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)
1128			START					
1132	1	7.21	2.14	5.05	0.23	15.3	-121.6	9.55
1136	2	7.20	2.13	4.09	0.18	15.1	-132.3	9.65
1140	3	7.19	2.13	4.07	0.17	15.1	-138.4	9.68
1144	4	7.18	2.12	4.93	0.15	15.1	-142.2	9.71
1148	5	7.18	2.12	5.29	0.12	15.1	-143.8	9.72
1152	6	7.17	2.13	4.22	0.11	15.2	-147.9	9.72
1156	7	7.17	2.13	2.00	0.10	15.1	-149.5	9.73
1200	8	7.16	2.13	1.92	0.09	15.3	-150.5	9.73

Flow Rate: ~250 mL/min

Pump Controller Setting: 40%

General Comments:

Water Sample Collection Field Data Sheet

Site Name: GHHI Well ID.: MW-06

Sample I.D.(match bottle and COC form exactly): MW-06

Personnel: AB

Date: 8/12/26 Static Depth to Water (ft, btoc) 10.17

Date/Time Sample Collected (match bottle and COC form exactly): 8/12/26; 1448

Sample Method: LF Peri

Water level meter, pump, and tubing decontaminated prior: (Yes) No

Sample QC: Duplicate Yes (No) Duplicate Sample ID: ———

Sample QC: Equipment Blank Yes (No) Equip Blank Sample ID: ———

Well Purging Data (Fill In All Blanks)

Depth of Sample Collection (pump depth) (ft, btoc) dedicated tubing

Time Completed: 1515 Total Purge 13 Units L

Field Measurements:

Time (24 hour)	Amount purged (ml)	pH	COND (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)
1416				START				
1420	1	7.48	1.86	5.46	0.36	17.6	-117.7	10.29
1424	2	7.48	1.83	3.49	0.28	17.7	-135.0	10.31
1428	3	7.48	1.82	4.63	0.16	17.8	-149.2	10.33
1432	4	7.47	1.82	4.86	0.09	18.1	-174.9	10.34
1436	5	7.47	1.82	3.33	0.10	18.1	-180.4	10.34
1440	6	7.46	1.83	2.66	0.07	18.0	-187.2	10.34
1444	7	7.45	1.83	1.07	0.06	18.1	-193.4	10.34
1448	8	7.44	1.83	2.74	0.07	18.2	-196.9	10.34

Flow Rate ~250mL/min

Pump controller setting 45%

General Comments:

Water Sample Collection Field Data Sheet

Site Name: GHHI Well I.D.: MW-07

Sample I.D. (match bottle and COC form exactly): MW-07

Personnel: F. Davis Ray

Date: 8/11/26 Static Depth to Water (ft, btoc): 6.27

Date/Time Sample Collected (match bottle and COC form exactly): 8/11/26 1015

Sample Method: Peristaltic

Water level meter, pump, and tubing decontaminated prior: (Yes) No

Sample QC: Field Duplicate Yes (No) Duplicate Sample ID: _____

Sample QC: Equipment Blank Yes (No) Equip Blank Sample ID: _____

Well Purging Data (Fill in All Blanks)

Depth of Sample Collection (pump intake depth; ft, btoc): Dedicated tubing

Time Completed: 1035 Total Purge: 9 Units: L

Field Measurements:

0940 Time (24 hour)	Amount purged (L)	pH	SPC (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)
0945	1.5	6.83	1.41	0.02	0.20	15.1	-152.7	6.46
0950	3.0	6.82	1.39	0.02	0.22	15.1	-153.8	6.46
0955	4.5	6.81	1.38	0.02	0.18	15.3	-152.6	6.44
1000	6.0	6.80	1.37	0.02	0.16	15.2	-151.1	6.45
1005	7.5	6.80	1.36	0.53	0.14	15.2	-150.2	6.44
1010	9.0	6.79	1.36	0.02	0.15	15.2	-149.9	6.45

Flow Rate: ~300

Pump Controller Setting: ~50%

General Comments:

Water Sample Collection Field Data Sheet

Site Name: GHHI Well I.D.: MW-08

Sample I.D. (match bottle and COC form exactly): MW-08

Personnel: F. Davis Ray

Date: 8/12/26 Static Depth to Water (ft, btoc): 5.25

Date/Time Sample Collected (match bottle and COC form exactly): 8/12/26 1200

Sample Method: Peristaltic

Water level meter, pump, and tubing decontaminated prior: (Yes) No

Sample QC: Field Duplicate Yes (No) Duplicate Sample ID: _____

Sample QC: Equipment Blank Yes (No) Equip Blank Sample ID: _____

Well Purging Data (Fill in All Blanks)

Depth of Sample Collection (pump intake depth; ft, btoc): Dedicated tubing

Time Completed: 1220 Total Purge: 10.5 Units: L

Field Measurements:

1120 Time (24 hour)	Amount purged (L)	pH	SPC (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)
1125	1.5	6.98	1.55	7.74	0.17	18.7	-136.8	5.67
1130	3.0	6.97	1.50	2.82	0.14	18.5	-142.3	5.67
1135	4.5	6.97	1.39	2.09	0.12	18.4	-145.6	5.66
1140	6.0	6.97	1.31	2.20	0.12	18.4	-147.5	5.67
1145	7.5	6.97	1.28	2.31	0.12	18.4	-148.6	5.67
1150	9.0	6.97	1.26	2.45	0.11	18.3	-149.4	5.67
1155	10.5	6.96	1.26	2.60	0.11	18.5	-150.5	5.66

Flow Rate: ~300 mL/min

Pump Controller Setting: ~60%

General Comments:

Water Sample Collection Field Data Sheet

Site Name: GHH1 Well I.D.: MW-09

Sample I.D. (match bottle and COC form exactly): MW-09

Personnel: AB Date: 8/10/26

Static Depth to Water (ft, btoc): 9.64 Well Total Depth (ft, btoc): ~~9.10~~

Date/Time Sample Collected (match bottle and COC form exactly): 8/10/26, 1346

Sample Method: LF Peri

Water level meter, pump, and tubing decontaminated prior: (Yes) No

Sample QC: Field Duplicate Yes (No) Duplicate Sample I.D.: —

Sample QC: Equipment Blank Yes (No) Equip. Blank Sample I.D.: —

Well Purging Data (Fill in All Blanks):

Depth of Sample Collection (pump intake depth; ft, btoc): dedicated tubing

Time Completed: 1410 Total Purge: 12 Units: L

Field Measurements:

Time (24-hour)	Amount Purged (L)	pH	COND. (µS/cm)	TURB. (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)	Flow Rate (mL/min)
1318	—	—	—	START	—	—	—	—	—
1322	0.8	6.92	2.93	1.79	0.19	16.1	-139.0	9.98	
1326	1.6	6.92	2.90	1.96	0.22	16.3	-144.3	10.06	
1330	2.4	6.92	2.87	1.07	0.24	16.5	-153.7	10.12	
1334	3.2	6.92	2.86	4.51	0.19	16.3	-157.6	10.16	
1338	4.0	6.92	2.84	3.09	0.18	16.1	-161.2	10.20	
1342	4.8	6.92	2.82	2.77	0.19	16.2	-163.1	10.22	
1346	5.6	6.92	2.80	1.09	0.18	16.3	-165.0	10.24	

Flow Rate: ~200 mL/min

Pump Controller Setting: 50%

General Comments:

Water Sample Collection Field Data Sheet

Site Name: CAHHI Well ID.: MW-10

Sample I.D.(match bottle and COC form exactly): MW-10

Personnel: AB

Date: 8/10/26 Static Depth to Water (ft, btoc) ~~6.30~~ 6.33

Date/Time Sample Collected (match bottle and COC form exactly): 8/10/26, 1510

Sample Method: LF Peri

Water level meter, pump, and tubing decontaminated prior: (Yes) No

Sample QC: Duplicate Yes No Duplicate Sample ID: _____

Sample QC: Equipment Blank Yes (No) Equip Blank Sample ID: —

Well Purging Data (Fill In All Blanks)

Depth of Sample Collection (pump depth) (ft, btoc) dedicated tubing

Time Completed: 1555 Total Purge 2 Units L

Field Measurements:

Time (24 hour)	Amount purged (ml)	pH	COND (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)
1426			START					
1430	1	7.18	4.92	3.74	0.22	16.4	-143.1	6.53
1434	2	7.18	4.61	4.04	0.16	17.1	-189.0	6.64
1438	3	7.17	4.24	3.44	0.10	18.0	-229.0	6.75
1442	4	7.21	4.10	5.56	0.11	17.9	-237.4	6.75
1446	5	7.23	3.99	5.89	0.10	17.9	-253.1	6.76
1450	6	7.33	3.74	2.82	0.09	18.0	-256.8	6.76
1454	7	7.37	3.63	1.05	0.07	17.9	-256.8	6.76
1458	8	7.42	3.51	1.99	0.06	17.9	-256.4	6.76
1502	9	7.46	3.33	1.90	0.07	18.0	-255.2	6.76
1506	10	7.48	3.30	1.51	0.06	17.9	-254.6	6.77
1510	11	7.49	3.27	1.13	0.06	17.9	-253.7	6.77

Flow Rate ~225mL/min

Pump controller setting ~30%

General Comments:

Water Sample Collection Field Data Sheet

Site Name: GHHI Well ID.: MW-11

Sample I.D.(match bottle and COC form exactly): MW-11

Personnel: AB

Date: 8/12/26 Static Depth to Water (ft, btoc) 14.80

Date/Time Sample Collected (match bottle and COC form exactly): 8/12/26, 1340

Sample Method: LF Peri

Water level meter, pump, and tubing decontaminated prior: (Yes) No

Sample QC: Duplicate Yes (No) Duplicate Sample ID: —

Sample QC: Equipment Blank Yes (No) Equip Blank Sample ID: —

Well Purging Data (Fill In All Blanks)

Depth of Sample Collection (pump depth) (ft, btoc) dedicated tubing

Time Completed: [redacted] 1405 Total Purge 12.2 Units L

Field Measurements:

Time (24 hour)	Amount purged (ml)	pH	COND (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)
1304			START					
1308	0.8	7.04	2.14	27.6	5.39	16.1	-113.3	15.21
1312	1.6	7.08	2.11	12.2	0.77	16.0	-140.6	15.31
1316	2.4	7.09	2.06	5.99	0.30	16.3	-149.7	15.37
1320	3.2	7.10	2.04	4.03	0.23	16.1	-152.9	15.41
1324	4.0	7.10	2.02	3.66	0.14	16.3	-158.0	15.42
1328	4.8	7.11	2.00	3.83	0.13	16.2	-160.7	15.43
1332	5.6	7.11	2.00	4.09	0.09	16.0	-164.4	15.43
1336	6.4	7.12	1.99	3.79	0.10	16.0	-167.0	15.43
1340	7.2	7.12	1.99	3.51	0.09	15.9	-169.7	15.43

Flow Rate ~200 mL/min

Pump controller setting ~45%

General Comments:

initial purge very turbid w/ black particulates, cleared up in ~30 sec.

Water Sample Collection Field Data Sheet

Site Name: GHHI Well I.D.: MW-12

Sample I.D. (match bottle and COC form exactly): MW-12

Personnel: F. Davis Ray

Date: 8/12/26 Static Depth to Water (ft, btoc): 7.22

Date/Time Sample Collected (match bottle and COC form exactly): 8/12/26 1630

Sample Method: Peristaltic

Water level meter, pump, and tubing decontaminated prior: (Yes) No

Sample QC: Field Duplicate Yes (No) Duplicate Sample ID: _____

Sample QC: Equipment Blank Yes (No) Equip Blank Sample ID: _____

Well Purging Data (Fill in All Blanks)

Depth of Sample Collection (pump intake depth; ft, btoc): Dedicated tubing

Time Completed: ~~1615~~ 1650 Total Purge: 11.25 Units: L

Field Measurements:

1540 Time (24 hour)	Amount purged (L)	pH	SPC (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)
1545	1.25	7.11	0.411	14.2	0.56	23.2	17.9	7.54
1550	2.5	7.18	0.393	8.92	0.33	22.9	3.5	7.55
1555	3.75	7.20	0.393	5.66	0.28	22.8	-10.3	7.54
1600	5.0	7.19	0.397	5.31	0.26	22.7	-22.2	7.55
1605	6.25	7.19	0.397	5.16	0.24	22.7	-31.6	7.54
1610	7.5	7.21	0.392	4.75	0.23	22.7	-41.1	7.55
1615	8.75	7.21	0.392	4.34	0.22	22.7	-49.8	7.55
1620	10.0	7.21	0.393	3.82	0.22	22.6	-53.6	7.54
1625	11.25	7.22	0.391	3.30	0.21	22.6	-58.9	7.54

Flow Rate: ~250 mL/min

Pump Controller Setting: ~60%

General Comments:

Water Sample Collection Field Data Sheet

Site Name: GHHI Well ID.: [redacted] MW-13

Sample I.D.(match bottle and COC form exactly): MW-13

Personnel: AB

Date: 8/11/26 Static Depth to Water (ft, btoc) 5.90

Date/Time Sample Collected (match bottle and COC form exactly): 8/11/26; 1502

Sample Method: LF Peri

Water level meter, pump, and tubing decontaminated prior: (Yes) No

Sample QC: Duplicate Yes (No) Duplicate Sample ID: —

Sample QC: Equipment Blank Yes (No) Equip Blank Sample ID: —

Well Purging Data (Fill In All Blanks)

Depth of Sample Collection (pump depth) (ft, btoc) dedicated tubing

Time Completed: 1525 Total Purge 12 Units L

Field Measurements:

Time (24 hour)	Amount purged (ml)	pH	COND (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)
1434			START					
1438	1	7.32	1.63	52.1	0.31	18.8	-282.6	5.95
1442	2	7.32	1.63	4.77	0.26	18.9	-288.4	5.95
1446	3	7.32	1.63	1.93	0.20	19.0	-291.0	5.96
1450	4	7.32	1.64	1.67	0.19	19.1	-298.9	5.96
1454	5	7.32	1.65	0.91	0.18	19.2	-299.0	5.96
1458	6	7.32	1.66	1.07	0.18	19.2	-299.4	5.96
1502	7	7.32	1.66	0.96	0.17	19.2	-299.1	5.96

Flow Rate ~ 250 mL/min

Pump controller setting ~ 454

General Comments:

Water Sample Collection Field Data Sheet

Site Name: CHH1 Well ID.: MW-16

Sample I.D.(match bottle and COC form exactly): MW-16

Personnel: AB

Date: 8/11/26 Static Depth to Water (ft, btoc) 4.97

Date/Time Sample Collected (match bottle and COC form exactly): 8/11/26 ; 1630

Sample Method: LF Peri

Water level meter, pump, and tubing decontaminated prior: (Yes) No

Sample QC: Duplicate (Yes) No Duplicate Sample ID: MWT-16

Sample QC: Equipment Blank Yes (No) Equip Blank Sample ID: ~~~

Well Purging Data (Fill In All Blanks)

Depth of Sample Collection (pump depth) (ft, btoc) dedicated tubing

Time Completed: ~~1705~~ 1705 Total Purge 13 Units L

Field Measurements:

Time (24 hour)	Amount purged (ml)	pH	COND (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)
1558			START					
1602	1	6.90	1.11	3.37	0.29	21.5	-218.2	5.08
1606	2	6.88	1.01	1.34	0.22	22.1	-224.1	5.09
1610	3	6.87	1.00	1.60	0.34	22.1	-232.9	5.09
1614	4	6.88	1.01	2.75	0.14	22.1	-234.1	5.10
1618	5	6.88	1.02	5.05	0.12	22.1	-234.2	5.10
1622	6	6.88	1.03	2.09	0.10	22.0	-235.7	5.10
1626	7	6.89	1.04	1.08	0.11	22.1	-236.9	5.10
1630	8	6.90	1.06	1.33	0.10	22.0		5.10

Flow Rate ~200 mL/min

Pump controller setting 45%

General Comments:

Water Sample Collection Field Data Sheet

Site Name: GHHI Well I.D.: MW-17

Sample I.D. (match bottle and COC form exactly): MW-17

Personnel: F. Davis Ray

Date: 8/11/26 Static Depth to Water (ft, btoc): 6.84

Date/Time Sample Collected (match bottle and COC form exactly): 8/11/26 1350

Sample Method: Peristaltic

Water level meter, pump, and tubing decontaminated prior: (Yes) No

Sample QC: Field Duplicate Yes (No) Duplicate Sample ID: _____

Sample QC: Equipment Blank Yes (No) Equip Blank Sample ID: _____

Well Purging Data (Fill in All Blanks)

Depth of Sample Collection (pump intake depth; ft, btoc): Dedicated tubing

Time Completed: 1410 Total Purge: 9 Units: L

Field Measurements:

1315 Time (24 hour)	Amount purged (L)	pH	SPC (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)
1320	1.5	7.03	1.04	5.73	0.19	20.8	-146.6	6.98
1325	3.0	7.31	1.04	1.00	0.14	19.7	-166.8	6.98
1330	4.5	7.44	1.03	0.93	0.13	19.7	-175.9	6.98
1335	6.0	7.48	1.02	0.86	0.11	19.8	-180.3	6.98
1340	7.5	7.49	1.02	0.44	0.10	19.8	-182.9	6.98
1345	9.0	7.50	1.02	0.02	0.10	19.8	-185.0	6.98

Flow Rate: ~300 mL/min

Pump Controller Setting: 50%

General Comments:

Water Sample Collection Field Data Sheet

Site Name: GHHI Well I.D.: MW-18

Sample I.D. (match bottle and COC form exactly): MW-18

Personnel: F. Davis Ray

Date: 8/11/26 Static Depth to Water (ft, btoc): 6.87

Date/Time Sample Collected (match bottle and COC form exactly): 8/11/26 1505

Sample Method: Peristaltic

Water level meter, pump, and tubing decontaminated prior: (Yes) No

Sample QC: Field Duplicate (Yes) No Duplicate Sample ID: MWT-18 1530

Sample QC: Equipment Blank Yes (No) Equip Blank Sample ID: _____

Well Purging Data (Fill in All Blanks)

Depth of Sample Collection (pump intake depth; ft, btoc): Dedicated tubing

Time Completed: 1550 Total Purge: 10.5 Units: L

Field Measurements:

1425 Time (24 hour)	Amount purged (L)	pH	SPC (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)
1430	1.5	7.11	1.46	36.1	0.32	19.2	-108.4	7.00
1435	3.0	7.01	1.44	14.8	0.48	19.5	-91.3	7.00
1440	4.5	6.98	1.43	18.1	0.48	19.5	-83.9	7.00
1445	6.0	6.90	1.41	18.7	0.63	20.0	-55.8	7.00
1450	7.5	6.95	1.42	3.43	0.40	19.7	-77.7	7.00
1455	9.0	6.96	1.42	2.23	0.41	19.6	-80.6	7.00
1500	10.5	6.96	1.42	1.99	0.42	19.6	-81.2	7.00

Flow Rate: ~300 mL/Min

Pump Controller Setting: 50%

General Comments:

Water Sample Collection Field Data Sheet

Site Name: GHHI Well I.D.: MW-19

Sample I.D. (match bottle and COC form exactly): MW-19

Personnel: F. Davis Ray

Date: 8/12/26 Static Depth to Water (ft, btoc): 5.60

Date/Time Sample Collected (match bottle and COC form exactly): 8/12/26 0935

Sample Method: Peristaltic

Water level meter, pump, and tubing decontaminated prior: (Yes) No

Sample QC: Field Duplicate Yes (No) Duplicate Sample ID: _____

Sample QC: Equipment Blank Yes (No) Equip Blank Sample ID: _____

Well Purging Data (Fill in All Blanks)

Depth of Sample Collection (pump intake depth; ft, btoc): Dedicated tubing

Time Completed: 0950 Total Purge: 9 Units: L

Field Measurements:

0900 Time (24 hour)	Amount purged (L)	pH	SPC (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)
0905	1.5	6.33	1.98	2.06	0.17	17.0	-33.3	5.86
0910	3.0	6.34	1.98	1.80	0.14	16.9	-46.5	5.86
0915	4.5	6.34	1.98	1.36	0.13	16.9	-53.7	5.86
0920	6.0	6.34	1.98	1.06	0.13	16.9	-58.1	5.86
0925	7.5	6.34	1.98	0.62	0.14	16.9	-61.2	5.86
0930	9.0	6.34	1.98	0.26	0.13	16.9	-63.3	5.86

Flow Rate: ~300 mL/min

Pump Controller Setting: 50%

General Comments:

Water Sample Collection Field Data Sheet

Site Name: GHHI Well I.D.: MW-20

Sample I.D. (match bottle and COC form exactly): MW-20

Personnel: F. Davis Ray

Date: 8/11/26 Static Depth to Water (ft, btoc): 5.48

Date/Time Sample Collected (match bottle and COC form exactly): 8/11/26 1245

Sample Method: Peristaltic

Water level meter, pump, and tubing decontaminated prior: (Yes) No

Sample QC: Field Duplicate Yes (No) Duplicate Sample ID: _____

Sample QC: Equipment Blank Yes (No) Equip Blank Sample ID: _____

Well Purging Data (Fill in All Blanks)

Depth of Sample Collection (pump intake depth; ft, btoc): Dedicated tubing

Time Completed: 1305 Total Purge: 9 Units: L

Field Measurements:

1210 Time (24 hour)	Amount purged (L)	pH	SPC (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)
1215	1.5	7.09	1.12	2.32	0.23	18.0	-129.6	5.62
1220	3.0	7.08	1.13	4.38	0.19	17.9	-131.7	5.62
1225	4.5	7.08	1.12	1.20	0.17	17.9	-135.1	5.62
1230	6.0	7.08	1.12	0.34	0.14	18.0	-137.5	5.62
1235	7.5	7.08	1.11	0.14	0.14	18.0	-138.8	5.62
1240	9.0	7.08	1.11	0.43	0.13	18.0	-139.6	5.62

Flow Rate: ~300 mL/min

Pump Controller Setting: 50%

General Comments:

_____

_____

_____

Water Sample Collection Field Data Sheet

Site Name: GHHI Well I.D.: MW-27

Sample I.D. (match bottle and COC form exactly): MW-27

Personnel: F. Davis Ray

Date: 8/12/26 Static Depth to Water (ft, btoc): 4.68

Date/Time Sample Collected (match bottle and COC form exactly): 8/12/26 1510

Sample Method: Peristaltic

Water level meter, pump, and tubing decontaminated prior: (Yes) No

Sample QC: Field Duplicate Yes (No) Duplicate Sample ID: _____

Sample QC: Equipment Blank Yes (No) Equip Blank Sample ID: _____

Well Purging Data (Fill in All Blanks)

Depth of Sample Collection (pump intake depth; ft, btoc): Dedicated tubing

Time Completed: 1530 Total Purge: 10 Units: L

Field Measurements:

1425 Time (24 hour)	Amount purged (L)	pH	SPC (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)
1430	1.25	6.62	2.84	7.46	0.29	19.8	-80.1	5.42
1435	2.5	6.63	2.77	27.2	0.22	20.7	-88.3	5.45
1440	3.75	6.59	2.76	22.4	0.16	20.8	-88.8	5.44
1445	5.0	6.57	2.75	15.5	0.14	20.9	-91.2	5.43
1450	6.25	6.54	2.75	10.7	0.13	20.8	-94.1	5.45
1455	7.5	6.53	2.74	8.89	0.12	20.8	-96.9	5.44
1500	8.75	6.52	2.73	6.65	0.11	20.8	-98.6	5.43
1505	10.0	6.51	2.72	5.87	0.11	20.7	-100.2	5.44
~~1510~~	~~11.25~~							

Flow Rate: ~250 mL/min

Pump Controller Setting: ~60%

General Comments:

Water Sample Collection Field Data Sheet

Site Name: GHHI Well I.D.: MW-28

Sample I.D. (match bottle and COC form exactly): MW-28

Personnel: F. Davis Ray

Date: 8/12/26 Static Depth to Water (ft, btoc): 7.74

Date/Time Sample Collected (match bottle and COC form exactly): 8/12/26 1355

Sample Method: Peristaltic

Water level meter, pump, and tubing decontaminated prior: (Yes) No

Sample QC: Field Duplicate Yes (No) Duplicate Sample ID: _____

Sample QC: Equipment Blank Yes (No) Equip Blank Sample ID: _____

Well Purging Data (Fill in All Blanks)

Depth of Sample Collection (pump intake depth; ft, btoc): Dedicated tubing

Time Completed: 1415 Total Purge: 8.75 Units: L

Field Measurements:

1315 Time (24 hour)	Amount purged (L)	pH	SPC (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)
1320	1.25	6.70	1.55	12.2	0.27	18.8	-143.2	8.14
1325	2.5	6.71	1.55	10.3	0.17	18.8	-147.9	8.15
1330	3.75	6.71	1.54	6.69	0.14	18.5	-150.7	8.16
1335	5.0	6.71	1.53	6.40	0.12	18.5	-151.9	8.15
1340	6.25	6.71	1.53	8.90	0.10	18.3	-153.2	8.16
1345	7.5	6.71	1.53	4.43	0.09	18.3	-154.3	8.15
1350	8.75	6.71	1.53	4.10	0.08	18.3	-154.7	8.16

Flow Rate: ~250 mL/min

Pump Controller Setting: 50%

General Comments:

Water Sample Collection Field Data Sheet

Site Name: GHHI Well I.D.: MW-30

Sample I.D. (match bottle and COC form exactly): MW-30

Personnel: F. Davis Ray

Date: 8/11/26 Static Depth to Water (ft, btoc): 5.27

Date/Time Sample Collected (match bottle and COC form exactly): 8/11/26 0900

Sample Method: Peristaltic

Water level meter, pump, and tubing decontaminated prior: (Yes) No

Sample QC: Field Duplicate Yes (No) Duplicate Sample ID: _____

Sample QC: Equipment Blank Yes (No) Equip Blank Sample ID: _____

Well Purging Data (Fill in All Blanks)

Depth of Sample Collection (pump intake depth; ft, btoc): Dedicated ~~pump~~ tubing

Time Completed: 0920 Total Purge: 13.75 Units: L

Field Measurements:

0800 Time (24 hour)	Amount purged (L)	pH	SPC (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)
0805	1.25	6.51	4.13	4.13	0.33	18.0	-66.1	5.53
0810	2.5	6.62	3.99	1.03	0.34	17.9	-113.8	5.54
0815	3.75	6.69	3.85	0.50	0.19	17.8	-148.1	5.55
0820	5.0	6.73	3.75	0.25	0.13	17.8	-177.1	5.56
0825	6.25	6.76	3.65	3.17	0.13	17.6	-195.7	5.57
0830	7.5	6.79	3.60	0.02	0.13	17.5	-212.0	5.57
0835	8.75	6.80	3.57	0.58	0.12	17.5	-225.0	5.58
0840	10.0	6.82	3.54	0.45	0.10	17.5	-235.0	5.59
0845	11.25	6.84	3.52	0.02	0.10	17.5	-242.7	5.58
0850	12.5	6.85	3.50	0.02	0.10	17.7	-248.6	5.59
0855	13.75	6.86	3.47	0.02	0.11	17.6	-252.2	5.58

Flow Rate: ~250 mL/min

Pump Controller Setting: 40%

General Comments:

Water Sample Collection Field Data Sheet

Site Name: GHHI Well I.D.: MW-31

Sample I.D. (match bottle and COC form exactly): MW-31

Personnel: E. Dan's Ray

Date: 8/13/26 Static Depth to Water (ft, btoc): 5.96

Date/Time Sample Collected (match bottle and COC form exactly): 8/13/26 1015

Sample Method: Peristaltic

Water level meter, pump, and tubing decontaminated prior: (Yes) No

Sample QC: Field Duplicate Yes (No) Duplicate Sample ID: _____

Sample QC: Equipment Blank Yes (No) Equip Blank Sample ID: _____

Well Purging Data (Fill in All Blanks)

Depth of Sample Collection (pump intake depth; ft, btoc): Dedicated tubing

Time Completed: 1100 Total Purge: 8.5 Units: L

Field Measurements:

0845 Time (24 hour)	Amount purged (L)	pH	SPC (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)
0850	0.5	7.03	1.92	5.08	0.95	15.6	27.2	6.86
0855	1.0	7.11	1.92	3.08	0.41	15.9	-49.6	7.25
0900	1.5	7.17	1.90	3.79	0.36	16.3	-93.4	7.45
0905	2.0	7.22	1.88	2.91	0.30	16.7	-126.8	7.66
0910	2.5	7.30	1.84	6.33	0.28	16.9	-148.1	7.91
0915	3.0	7.42	1.77	8.66	0.24	16.9	-155.9	8.08
0920	3.5	7.48	1.71	8.87	0.22	17.0	-157.0	8.22
0925	4.0	7.53	1.65	9.5	0.25	17.1	-155.2	8.37
0930	4.5	7.59	1.58	11.3	0.38	17.2	-141.6	8.53
0935	5.0	7.65	1.51	10.5	0.85	17.1	-109.2	8.68
0940	5.5	7.69	1.45	10.4	1.13	17.2	-77.3	8.84
0945	6.0	7.70	1.43	10.8	1.54	17.2	-48.1	9.00
0950	6.5	7.71	1.42	10.0	1.85	17.3	-30.4	9.16
0955	7.0	7.71	1.43	9.6	2.22	17.2	-11.7	9.31
1000	7.5	7.71	1.43	8.91	2.44	17.1	19.8	9.45
1005	8.0	7.71	1.43	8.44	2.66	17.1	24.7	9.56
1010	8.5	7.70	1.44	8.47	2.53	17.1	29.6	9.79

Flow Rate: ~100 mL/Min

Pump Controller Setting: ~30%

General Comments:

Water Sample Collection Field Data Sheet

Site Name: GHHI Well I.D.: MW-32

Sample I.D. (match bottle and COC form exactly): MW-32

Personnel: F. Davis Ray

Date: 8/12/26 Static Depth to Water (ft, btoc): 6.25

Date/Time Sample Collected (match bottle and COC form exactly): 8/12/26 1040

Sample Method: Peristaltic

Water level meter, pump, and tubing decontaminated prior: (Yes) No

Sample QC: Field Duplicate Yes (No) Duplicate Sample ID: _____

Sample QC: Equipment Blank Yes (No) Equip Blank Sample ID: _____

Well Purging Data (Fill in All Blanks)

Depth of Sample Collection (pump intake depth; ft, btoc): Dedicated tubing

Time Completed: 1105 Total Purge: 7 Units: L

Field Measurements:

1000 Time (24 hour)	Amount purged (L)	pH	SPC (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)
1005	1.0	7.20	1.12	3.15	0.54	16.6	-184.3	6.19
1010	2.0	7.19	1.11	1.91	0.33	16.7	-190.2	6.19
1015	3.0	7.19	1.11	1.40	0.28	16.7	-193.5	6.19
1020	4.0	7.19	1.11	1.36	0.26	16.7	-195.1	6.19
1025	5.0	7.19	1.11	1.32	0.22	16.7	-195.9	6.19
1030	6.0	7.20	1.11	0.97	0.19	16.7	-196.2	6.19
1035	7.0	7.20	1.11	0.62	0.20	16.6	-196.4	6.19

Flow Rate: ~200 mL/min

Pump Controller Setting: 50%

General Comments:

Water Sample Collection Field Data Sheet

Site Name: GHHI Well ID.: MW-33

Sample I.D.(match bottle and COC form exactly): MW-33

Personnel: AB

Date: 8/13/26 Static Depth to Water (ft, btoc) 2.49

Date/Time Sample Collected (match bottle and COC form exactly): 8/13/26, 852

Sample Method: LF Peri

Water level meter, pump, and tubing decontaminated prior: (Yes) No

Sample QC: Duplicate Yes (No) Duplicate Sample ID: ———

Sample QC: Equipment Blank Yes (No) Equip Blank Sample ID: ———

Well Purging Data (Fill In All Blanks)

Depth of Sample Collection (pump depth) (ft, btoc) dedicated tubing

Time Completed: 0920 Total Purge 13 Units L

Field Measurements:

Time (24 hour)	Amount purged (ml)	pH	COND (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)
820			START					
824	1	6.61	1.37	22.2	0.58	17.3	-96.5	2.63
828	2	6.66	1.36	14.0	0.42	17.5	-118.5	2.63
832	3	6.75	1.33	15.0	0.23	17.6	-134.5	2.63
836	4	6.78	1.28	6.49	0.17	17.6	-138.1	2.63
840	5	6.78	1.25	7.56	0.14	17.6	-138.8	2.63
844	6	6.79	1.23	5.97	0.10	17.6	-139.0	2.63
848	7	6.78	1.22	5.95	0.10	17.6	-138.7	2.63
852	8	6.79	1.22	4.63	0.09	17.6	-138.4	2.63

Flow Rate ~250 mL/min

Pump controller setting 45%

General Comments:

Water Sample Collection Field Data Sheet

Site Name: GHH1 Well ID.: MW-34

Sample I.D.(match bottle and COC form exactly): MW-34

Personnel: AB

Date: 8/12/26 Static Depth to Water (ft, btoc) 4.31

Date/Time Sample Collected (match bottle and COC form exactly): 8/12/26; 1602

Sample Method: LF Peri

Water level meter, pump, and tubing decontaminated prior: (Yes) No

Sample QC: Duplicate Yes (No) Duplicate Sample ID: —

Sample QC: Equipment Blank Yes (No) Equip Blank Sample ID: —

Well Purging Data (Fill In All Blanks)

Depth of Sample Collection (pump depth) (ft, btoc) dedicated tubing

Time Completed: 1630 Total Purge 12 Units L

Field Measurements:

Time (24 hour)	Amount purged (ml)	pH	COND (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)
1534			START					
1538	1	6.78	2.36	23.9	0.19	15.7	-112.3	4.41
1542	2	6.70	2.22	15.1	0.08	15.9	-118.0	4.42
1546	3	6.67	2.17	2.10	0.07	15.9	-121.4	4.42
1550	4	6.65	2.17	1.20	0.06	15.8	-122.8	4.42
1554	5	6.64	2.18	3.10	0.07	15.8	-126.7	4.42
1558	6	6.64	2.18	0.98	0.06	15.7	-128.9	4.42
1602	7	6.64	2.19	1.34	0.06	15.7	-130.8	4.42

Flow Rate ~250 mL/min

Pump controller setting 35%

General Comments:

Water Sample Collection Field Data Sheet

Site Name: GHHI Well ID.: MW-36

Sample I.D.(match bottle and COC form exactly): MW-36

Personnel: AB

Date: 8/11/26 Static Depth to Water (ft, btoc) 8.86

Date/Time Sample Collected (match bottle and COC form exactly): 8/11/26 ; 1038

Sample Method: LF Peri

Water level meter, pump, and tubing decontaminated prior: (Yes) No

Sample QC: Duplicate Yes (No) Duplicate Sample ID: —

Sample QC: Equipment Blank Yes (No) Equip Blank Sample ID: —

Well Purging Data (Fill In All Blanks)

Depth of Sample Collection (pump depth) (ft, btoc) dedicated tubing

Time Completed: 1102 Total Purge 13 Units L

Field Measurements:

Time (24 hour)	Amount purged (ml)	pH	COND (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)
1006			START					
1010	1	9.44	0.59	97.3	0.19	20.3	-274.4	8.97
1014	2	9.10	0.53	60.4	0.18	20.5	-276.6	8.98
1018	3	9.01	0.61	55.5	0.17	20.6	-213.7	8.97
1022	4	8.93	0.70	50.3	0.16	20.7	-269.1	8.97
1026	5	8.75	0.72	6.52	0.13	20.7	-274.6	8.97
1030	6	8.69	0.73	2.99	0.13	20.6	-274.9	8.97
1034	7	8.68	0.73	2.52	0.13	20.6	-275.9	8.97
1038	8	8.65	0.73	2.10	0.12	20.6	-275.5	8.97

Flow Rate ~250 mL/min

Pump controller setting 40%

General Comments:

Water Sample Collection Field Data Sheet

Site Name: CHHI Well ID.: MW-37

Sample I.D.(match bottle and COC form exactly): MW-37

Personnel: AB

Date: 8/11/26 Static Depth to Water (ft, btoc) 9.31

Date/Time Sample Collected (match bottle and COC form exactly): 8/11/26; 922

Sample Method: LF Peri

Water level meter, pump, and tubing decontaminated prior: (Yes) No

Sample QC: Duplicate Yes (No) Duplicate Sample ID: ——

Sample QC: Equipment Blank Yes (No) Equip Blank Sample ID: ——

Well Purging Data (Fill In All Blanks)

Depth of Sample Collection (pump depth) (ft, btoc) dedicated tubing

Time Completed: 945 Total Purge 15 Units L

Field Measurements:

Time (24 hour)	Amount purged (ml)	pH	COND (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)
842			START					
846	1	7.04	0.95	120	0.53	18.9	-113.8	9.41
850	2	7.05	0.95	30.3	0.33	19.0	-90.9	9.41
854	3	7.06	0.95	4.04	0.28	19.0	-77.2	9.41
858	4	7.07	0.94	3.72	0.23	18.9	-67.2	9.41
902	5	7.08	0.93	8.26	0.20	18.9	-54.9	9.42
906	6	7.09	0.93	4.88	0.18	19.0	-47.2	9.42
910	7	7.10	0.93	3.88	0.17	19.0	-40.1	9.42
914	8	7.10	0.93	3.24	0.16	19.0	-35.3	9.42
918	9	7.10	0.93	2.89	0.17	19.1	-29.9	9.42
922	10	7.10	0.93	2.70	0.18	19.1	-26.1	9.42

Flow Rate ~250 mL/min

Pump controller setting 40%

General Comments:

Water Sample Collection Field Data Sheet

Site Name: CHH1 Well ID.: MW-38

Sample I.D.(match bottle and COC form exactly): MW-38

Personnel: AB

Date: 8/11/26 Static Depth to Water (ft, btoc) 10.18

Date/Time Sample Collected (match bottle and COC form exactly): 8/11/26; 950

Sample Method: LF Peri

Water level meter, pump, and tubing decontaminated prior: (Yes) No

Sample QC: Duplicate Yes (No) Duplicate Sample ID: ———

Sample QC: Equipment Blank Yes (No) Equip Blank Sample ID: ———

Well Purging Data (Fill In All Blanks)

Depth of Sample Collection (pump depth) (ft, btoc) dedicated tubing

Time Completed: 1145 Total Purge 8 Units L

Field Measurements:

Time (24 hour)	Amount purged (ml)	pH	COND (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)
812			START					
816	.6	11.51	1.68	12.3	0.75	19.8	-396.4	11.09
820	1.2	11.25	1.11	11.6	0.34	20.2	-393.0	11.89
824	1.8	11.08	0.93	11.9	0.26	20.3	-382.4	12.29
828	2.4	11.00	0.78	12.8	0.23	20.4	-372.2	13.03
832	3.0	11.12	0.87	9.31	0.22	20.1	-356.6	DRY

Flow Rate ~150 mL/min

Pump controller setting 20 to 25 low w/o shutoff

General Comments:

well runs dry pumping @ lowest purge rate return ~~[illegible]~~ day to collect recharge throughout

Water Sample Collection Field Data Sheet

Site Name: GHHI Well ID.: MW-39

Sample I.D.(match bottle and COC form exactly): MW-39

Personnel: AB

Date: 8/12/26 Static Depth to Water (ft, btoc) 7.15

Date/Time Sample Collected (match bottle and COC form exactly): 8/12/26; 1000

Sample Method: LF Peri

Water level meter, pump, and tubing decontaminated prior: (Yes) No

Sample QC: Duplicate Yes (No) Duplicate Sample ID: —

Sample QC: Equipment Blank Yes (No) Equip Blank Sample ID: —

Well Purging Data (Fill In All Blanks)

Depth of Sample Collection (pump depth) (ft, btoc) dedicated tubing

Time Completed: 1030 Total Purge 14 Units L

Field Measurements:

Time (24 hour)	Amount purged (ml)	pH	COND (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)
0924	—	—	START	—	—	—	—	—
0928	1	7.28	1.27	204	0.57	19.0	-195.7	7.73
0932	2	7.28	1.25	31.1	0.25	19.3	-199.7	7.80
0936	3	7.27	1.25	25.2	0.19	19.3	-200.4	7.80
0940	4	7.25	1.24	23.8	0.15	19.4	-201.8	7.81
0944	5	7.25	1.23	17.7	0.13	19.4	-203.6	7.82
0948	6	7.24	1.22	14.6	0.12	19.4	-206.3	7.82
0952	7	7.24	1.22	12.4	0.10	19.5	-207.3	7.83
0956	8	7.24	1.22	10.1	0.10	19.5	-208.6	7.83
1000	9	7.24	1.21	7.37	0.09	19.7	-210.1	7.83

Flow Rate ~200 mL/min

Pump controller setting ~ 45%

General Comments:

Water Sample Collection Field Data Sheet

Site Name: GHHI Well ID.: MW-41

Sample I.D.(match bottle and COC form exactly): MW-41

Personnel: AB

Date: 8/10/26 Static Depth to Water (ft, btoc) 8.34

Date/Time Sample Collected (match bottle and COC form exactly): 8/10/26; 1230

Sample Method: LF Peri

Water level meter, pump, and tubing decontaminated prior: (Yes) No

Sample QC: Duplicate Yes (No) Duplicate Sample ID: —

Sample QC: Equipment Blank Yes (No) Equip Blank Sample ID: —

Well Purging Data (Fill In All Blanks)

Depth of Sample Collection (pump depth) (ft, btoc) dedicated tubing

Time Completed: 1300 Total Purge 15 Units L

Field Measurements:

Time (24 hour)	Amount purged (ml)	pH	COND (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)
~~1150~~								
1158		START						
1202	1	7.12	3.00	51.3	0.59	18.8	-114.8	8.44
1206	2	7.09	2.67	32.8	0.29	19.6	-78.4	8.45
1210	3	7.09	2.60	22.4	0.26	19.8	-69.9	8.46
1214	4	7.10	2.53	14.9	0.26	19.9	-65.1	8.46
1218	5	7.11	2.49	7.41	0.26	19.9	-70.2	8.46
1222	6	7.13	2.45	3.12	0.22	20.0	-81.8	8.46
1226	7	7.14	2.42	3.05	0.20	20.0	-88.2	8.46
1230	8	7.15	2.40	3.83	0.18	19.9	-96.0	8.46
1234	9	7.16	2.38	1.23	0.17	19.9	-99.8	8.46
1238	10	7.16	2.37	1.76	0.16	20.1	-101.2	8.47

Flow Rate ~250 mL/min

Pump controller setting ~40%

General Comments:

Water Sample Collection Field Data Sheet

Site Name: GHHI Well I.D.: MW-42

Sample I.D. (match bottle and COC form exactly): MW-42

Personnel: F. Davis Ray

Date: 8/10/26 Static Depth to Water (ft, btoc): 5.57

Date/Time Sample Collected (match bottle and COC form exactly): 8/10/26 1515

Sample Method: Peristaltic

Water level meter, pump, and tubing decontaminated prior: (Yes) No

Sample QC: Field Duplicate Yes (No) Duplicate Sample ID: _____

Sample QC: Equipment Blank Yes (No) Equip Blank Sample ID: _____

Well Purging Data (Fill in All Blanks)

Depth of Sample Collection (pump intake depth; ft, btoc): Dedicated tubing

Time Completed: 1535 Total Purge: 21 Units: L

Field Measurements:

1400 Time (24 hour)	Amount purged (L)	pH	SPC (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)
1405	1.5	6.43	2.10	142	0.27	19.3	-39.6	5.73
1410	3.0	6.50	1.95	40.9	0.15	20.2	-68.5	5.73
1415	4.5	6.49	1.95	23.9	0.13	20.2	-76.4	5.75
1420	6.0	6.51	1.92	21.9	0.12	20.2	-81.9	5.77
1425	7.5	6.50	1.89	13.0	0.10	20.6	-82.9	5.78
1430	9.0	6.51	1.87	17.1	0.10	20.4	-85.1	5.78
1435	10.5	6.54	1.85	21.9	0.09	20.3	-78.7	5.79
1440	12.0	6.55	1.85	21.0	0.09	20.3	-82.0	5.80
1445	13.5	6.55	1.85	13.9	0.08	20.3	-82.1	5.81
1450	15.0	6.55	1.83	12.1	0.08	20.2	-82.3	5.81
1455	16.5	6.55	1.84	11.5	0.08	20.2	-81.0	5.82
1500	18.0	6.57	1.82	9.59	0.07	20.2	-81.5	5.82
1505	19.5	6.58	1.81	9.48	0.08	20.3	-81.6	5.82
1510	21.0	6.59	1.80	9.21	0.07	20.2	-81.4	5.82

Flow Rate: ~300 mL/min

Pump Controller Setting: 60%

General Comments:

Water Sample Collection Field Data Sheet

Site Name: GHHI Well I.D.: MW-43

Sample I.D. (match bottle and COC form exactly): MW-43

Personnel: F. Davis Ray

Date: 8/11/26 Static Depth to Water (ft, btoc): 5.39

Date/Time Sample Collected (match bottle and COC form exactly): 8/11/26 1120

Sample Method: Peristaltic

Water level meter, pump, and tubing decontaminated prior: (Yes) No

Sample QC: Field Duplicate Yes (No) Duplicate Sample ID: _____

Sample QC: Equipment Blank Yes (No) Equip Blank Sample ID: _____

Well Purging Data (Fill in All Blanks)

Depth of Sample Collection (pump intake depth; ft, btoc): Dedicated tubing

Time Completed: 1145 Total Purge: 6 Units: L

Field Measurements:

1045 Time (24 hour)	Amount purged (L)	pH	SPC (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)
1050	1.0	7.30	0.77	2.17	0.31	18.1	-114.6	5.58
1055	2.0	7.41	0.72	0.43	0.23	18.5	-121.0	5.58
1100	3.0	7.49	0.73	0.52	0.20	18.6	-133.6	5.59
1105	4.0	7.50	0.75	0.54	0.17	18.6	-137.6	5.59
1110	5.0	7.49	0.76	0.85	0.16	18.7	-142.8	5.59
1115	6.0	7.49	0.76	0.02	0.15	18.7	-146.9	5.58

Flow Rate: ~200

Pump Controller Setting: 50%

General Comments:

Water Sample Collection Field Data Sheet

Site Name: GHHI Well I.D.: SG-02

Sample I.D. (match bottle and COC form exactly): SG-02

Personnel: AB/FDR

Date: 8/13/26 Static Depth to Water (ft, btoc): ~6" below surface

Date/Time Sample Collected (match bottle and COC form exactly): 8/13/26; 1330

Sample Method: Grab

Water level meter, pump, and tubing decontaminated prior: (Yes) No

Sample QC: Field Duplicate Yes (No) Duplicate Sample ID: —

Sample QC: Equipment Blank Yes (No) Equip Blank Sample ID: —

Well Purging Data (Fill in All Blanks)

Depth of Sample Collection (pump intake depth; ft, btoc): ~6" below surface

Time Completed: 1345 Total Purge: 5 Units: L

Field Measurements:

Time (24 hour)	Amount purged (L)	pH	SPC (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)
1330	—	8.41	1.38	6.85	7.97	26.0	38.3	—

SW Sample

Flow Rate: —

Pump Controller Setting: —

General Comments:

Water Sample Collection Field Data Sheet

Site Name: GHHI Well I.D.: SG-04R

Sample I.D. (match bottle and COC form exactly): n/a

Personnel: AB / FDR

Date: 8/13/26 Static Depth to Water (ft, btoc): —

Date/Time Sample Collected (match bottle and COC form exactly): No sample

Sample Method: n/a

Water level meter, pump, and tubing decontaminated prior: (Yes) No

Sample QC: Field Duplicate Yes (No) Duplicate Sample ID: _____

Sample QC: Equipment Blank Yes (No) Equip Blank Sample ID: _____

Well Purging Data (Fill in All Blanks)

Depth of Sample Collection (pump intake depth; ft, btoc): No sample

Time Completed: 1400 Total Purge: 0 Units: L

Field Measurements:

Time (24 hour)	Amount purged (L)	pH	SPC (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)

Staff Gauge Dry
No sample

Flow Rate: —

Pump Controller Setting: —

General Comments:

Water Sample Collection Field Data Sheet

Site Name: GHHI Well I.D.: SG-05

Sample I.D. (match bottle and COC form exactly): n/a

Personnel: AB/FDR

Date: 8/13/26 Static Depth to Water (ft, btoc): —

Date/Time Sample Collected (match bottle and COC form exactly): No sample

Sample Method: n/a

Water level meter, pump, and tubing decontaminated prior: (Yes) No

Sample QC: Field Duplicate Yes (No) Duplicate Sample ID: _____

Sample QC: Equipment Blank Yes (No) Equip Blank Sample ID: _____

Well Purging Data (Fill in All Blanks)

Depth of Sample Collection (pump intake depth; ft, btoc): No sample

Time Completed: 1405 Total Purge: 0 Units: L

Field Measurements:

Time (24 hour)	Amount purged (L)	pH	SPC (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)

Staff Gauge "Dry"
Low Volume SW
No sample

Flow Rate: —

Pump Controller Setting: —

General Comments:

Water Sample Collection Field Data Sheet

Site Name: CHHI Well I.D.: SG-07

Sample I.D. (match bottle and COC form exactly): ~6" below surface

Personnel: AB/FDR

Date: 8/13/26 Static Depth to Water (ft, btoc): —

Date/Time Sample Collected (match bottle and COC form exactly): 8/13/26; 1400

Sample Method: LF Peri

Water level meter, pump, and tubing decontaminated prior: (Yes) No

Sample QC: Field Duplicate Yes (No) Duplicate Sample ID: —

Sample QC: Equipment Blank Yes (No) Equip Blank Sample ID: —

Well Purging Data (Fill in All Blanks)

Depth of Sample Collection (pump intake depth; ft, btoc): ~6" below surface

Time Completed: 1415 Total Purge: 5 Units: L

Field Measurements:

Time (24 hour)	Amount purged (L)	pH	SPC (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)
1400	—	7.88	3.65	9.10	3.69	25.9	19.7	—
↓								↑
			SW Sample					
↑								↓
L								J

Flow Rate: —

Pump Controller Setting: —

General Comments:

Project: Grand Haven Harbor Island **Date:** 8/10/2026

Personnel: F. Davis Ray

Well ID	Time	TOC Elevation (ft amsl)	Total Depth (ft btoc)	Well Type	Well Diameter (inches)	Well Pad	Prior Measurement (ft btoc)	Current Mesaurement (ft btoc)	Additional Comments
MW-01R	1134	588.45	12.17	Stickup	2	Fair	5.25	7.73	
MW-01RB	1134	588.59	34.20	Stickup	2	Good	8.64	8.53	
MW-02	1152	595.64	23.33	Stickup	2	Fair	15.48	15.43	
MW-03	1054	593.08	20.30	Stickup	2	Fair	13.18	12.84	
MW-04	1052	591.49	17.97	Stickup	2	Fair	10.70	11.28	
MW-04R	1052	588.90	18.37	Stickup	2	Good	8.86	8.88	
MW-05	1100	587.62	11.87	Stickup	2	Fair	5.14	7.42	WL ONLY
MW-06	1142	590.40	16.75	Stickup	2	Good	7.85	10.08	
MW-07	1000	586.49	18.90	Stickup	2	Fair	6.59	6.27	
MW-08	1212	585.34	12.11	Stickup	2	Fair	5.47	5.25	
MW-09	1150	589.52	15.23	Stickup	2	Fair	9.45	9.60	
MW-09B	1148	589.76	39.10	Stickup	2	Good	10.16	9.80	WL ONLY
MW-10	1158	586.73	13.00	Stickup	2	Fair	6.60	6.26	
MW-11	1507	595.27	18.52	Stickup	2	Fair	12.61	14.82	
MW-12	1057	588.03	11.47	Stickup	2	Fair	3.63	7.22	
MW-13	1014	585.94	12.51	Stickup	2	Fair	5.96	5.76	
PZ-14	1020	586.31	11.73	Stickup	2	Fair	4.75	6.34	WL ONLY
PZ-15	950	592.38	21.25	Stickup	2	Fair	11.71	11.95	WL ONLY
PZ-15B	950	591.86	38.18	Stickup	2	Good	12.09	12.12	WL ONLY
MW-16	945	584.91	11.42	Stickup	2	Good	5.04	4.79	
MW-17	1006	587.02	11.34	Stickup	2	Poor	5.53	6.84	
MW-18	1110	587.22	11.37	Stickup	2	Fair	5.87	6.87	
MW-19	1137	585.86	11.62	Stickup	2	Fair	5.61	5.60	
MW-20	1004	585.74	11.15	Stickup	2	Fair	5.80	5.48	
PZ-21	-	583.32	-	Stickup	2	-	-	-	Inaccessible
PZ-22	-	583.42	-	Stickup	2	-	-	-	Inaccessible
PZ-23	930	587.21	11.58	Stickup	2	Fair	6.81	7.18	WL ONLY
PZ-24	908	587.25	12.29	Stickup	2	Fair	6.22	7.80	WL ONLY
PZ-25	925	586.37	11.30	Stickup	2	Poor	6.34	6.11	WL ONLY
PZ-26	905	586.27	11.33	Stickup	2	Fair	4.86	6.52	WL ONLY
MW-27	903	585.09	11.73	Stickup	2	Fair	4.06	4.68	
MW-28	1230	588.07	12.27	Stickup	2	Fair	8.11	7.74	
PZ-29	1218	583.49	12.18	Stickup	2	Fair	3.38	3.08	WL ONLY
MW-30	1200	585.80	11.35	Stickup	2	Fair	4.87	5.27	
MW-31	1206	585.73	11.76	Stickup	2	Fair	4.43	5.96	
MW-32	1202	586.26	11.68	Stickup	2	Fair	5.24	6.25	
MW-33	857	582.81	6.94	Flush	2	Fair	-	2.41	
MW-34	840	584.37	13.43	Flush	2	Fair	3.42	4.35	
MW-35	850	589.72	11.66	Flush	2	Fair	5.31	8.75	WL ONLY
MW-36	1010	589.62	12.54	Stickup	2	Fair	7.13	8.96	
MW-37	1012	589.62	12.97	Stickup	2	Fair	7.72	9.36	
MW-38	1050	590.51	13.39	Stickup	2	Fair	8.41	10.30	
MW-39	1028	587.36	11.17	Stickup	2	Fair	5.51	7.17	
MW-40	1025	586.78	10.45	Stickup	2	Fair	4.95	7.33	WL ONLY
MW-41	1235	588.37	13.07	Stickup	2	Good	8.84	8.34	
MW-42	1210	585.71	11.25	Stickup	2	Good	5.62	5.57	
MW-43	10.02	585.49	11.38	Stickup	2	Good	5.14	5.39	
MW-44	912	587.15	13.34	Stickup	2	Good	6.92	7.29	WL ONLY
MW-44B	910	587.17	47.21	Stickup	2	Good	7.90	7.26	WL ONLY
SG-01 Gauge	1149	579.90	-	Staff Gauge	-	-	-	Dry	WL ONLY
SG-02 Transducer	1600	584.39	-	Stickup	2	-	2.32	4.65	WL ONLY
SG-02 Gauge	1600	578.67	-	Staff Gauge	-	-	3.27	0.96	
SG-03 Gauge	1605	580.10	-	Staff Gauge	-	-	1.82	Dry	WL ONLY
SG-04R Transducer	1610	585.05	-	Stickup	2	-	2.66	Dry	WL ONLY
SG-04R Gauge	1610	579.85	-	Staff Gauge	-	-	2.49	Dry	
SG-05 Transducer	-	580.71	-	Stickup	2	-	1.19	-	Overgrown vegetation
SG-05 Gauge	1615	580.10	-	Staff Gauge	-	-	-	0.06	Low volume (no sample)
SG-06	1215	580.66	-	Stickup	2	-	-	Dry	WL ONLY

Project: Grand Haven Harbor Island **Date:** 8/10/2026

Personnel: F. Davis Ray

Well ID	Time	TOC Elevation (ft amsl)	Total Depth (ft btoc)	Well Type	Well Diameter (inches)	Well Pad	Prior Measurement (ft btoc)	Current Mesaurement (ft btoc)	Additional Comments
SG-07 Transducer	-	582.64		Stickup	2	-	3.56	-	Engulfment hazard
SG-07 Gauge	932	577.44	-	Staff Gauge	-	-	1.99	2.58	
STW-1 DP	1222	582.56		Stickup	2	-	3.31	2.57	WL ONLY
STW-1 SW	1222	582.90		Stickup	2	-	-	2.48	WL ONLY
STW-1 Gauge (offshore)	1222	580.95	-	Staff Gauge	-	-	0.35	~2	Blocked by vegetation
STW-2 PVC	935	586.20	-	Stickup	2	-	6.74	6.07	WL ONLY
STW-2 Steel	937	584.78	-	Stickup	2	-	5.17	4.67	WL ONLY
STW-2 PVC Rail	935	586.57	-	Survey Marker	-	-	7.08	6.59	WL ONLY
STW-2 PVC Toeboard	935	583.36	-	Survey Marker	-	-	3.90	3.27	WL ONLY
STW-2 Steel Rail	937	586.63	-	Survey Marker	-	-	7.05	6.58	WL ONLY
STW-2 Steel Toeboard	937	583.61	-	Survey Marker	-	-	4.01	3.48	WL ONLY
SG-07 Bridge	932	586.85	-	Survey Marker	-	-	7.30	6.70	WL ONLY
STW-3 PVC	1034	592.46	-	Stickup	2	-	13.03	12.39	WL ONLY
STW-3 Steel	1034	Not Surveyed		Stickup	2	-		11.82	WL ONLY
STW-3 Floor Grate	1034	589.07	-	Survey Marker	-	-	9.90	9.29	WL ONLY
PW-1	1144	593.35	39.65	Stickup	6	Fair	13.19	13.06	WL ONLY

Appendix C

Data Validation Reports

Data Verification & Validation Report

Grand Haven-Harbor Island

Sampling Event (dates and purpose): Quarterly Assessment Monitoring

Data Package Number: 26H0718, 26H0719
Data Validator: Andrew Byks

Lab Report Date: 8/28/2026, 9/17/2026
Data Validation Completion Date: 9/23/2026

General Overall Assessment:
_____ Data are usable without qualification.
__X__ Data are usable with qualification (as noted below).
_____ Some or all data are unusable (as noted below).

Wells planned for sampling:

Unit 3A/B	Unit 1/2	Well Designation	Well ID	Planned for Sampling
✓	✓	Nature & Extent	MW-01R	X
✓	✓	Nature & Extent	MW-01RB	X
✓		Point of Compliance	MW-02	X
✓		Point of Compliance	MW-03	X
✓		Point of Compliance	MW-04	X
✓		Point of Compliance	MW-04R	X
	✓	Point of Compliance	MW-06	X
	✓	Nature & Extent	MW-07	X
	✓	Point of Compliance	MW-08	X
✓	✓	Nature & Extent	MW-09	X
✓	✓	Nature & Extent	MW-10	X
✓		Point of Compliance	MW-11	X
✓		Point of Compliance	MW-12	X
✓		Nature & Extent	MW-13	X
	✓	Nature & Extent	MW-16	X
	✓	Nature & Extent	MW-17	X
	✓	Point of Compliance	MW-18	X
	✓	Point of Compliance	MW-19	X
	✓	Point of Compliance	MW-20	X
✓	✓	Background	MW-27	X
	✓	Nature & Extent	MW-28	X
	✓	Point of Compliance	MW-30	X
	✓	Point of Compliance	MW-31	X
✓	✓	Nature & Extent	MW-32	X
✓	✓	Background	MW-33	X
✓	✓	Background	MW-34	X
	✓	Nature & Extent	MW-36	X
	✓	Nature & Extent	MW-37	X
✓		Nature & Extent	MW-38	X
✓		Nature & Extent	MW-39	X
✓	✓	Nature & Extent	MW-41	X
	✓	Nature & Extent	MW-42	X
	✓	Nature & Extent	MW-43	X
✓	✓	Surface Water	SG-02	X
✓	✓	Surface Water	SG-04R	X
✓	✓	Surface Water	SG-05	X
✓	✓	Surface Water	SG-07	X

Data Summary

Sample ID	Matrix	Lab ID	Date Collected	Metals	Mercury	Part 115 Metals	Alkalinity/ Anions	TDS TSS	Rad-226 Rad-228	Diss. Metals
MW-41	GW	26H0718-01	8/10/2026	X	X	X	X	X	X	
MW-09	GW	26H0718-02	8/10/2026	X	X	X	X	X	X	
MW-10	GW	26H0718-03	8/10/2026	X	X	X	X	X	X	
MWT-10	GW	26H0718-04	8/10/2026	X	X	X	X	X	X	
MW-42	GW	26H0718-05	8/10/2026	X	X	X	X	X	X	
LLHGTB-08102026	AQ	26H0718-06	8/10/2026		X					
MW-30	GW	26H0718-07	8/11/2026	X	X	X	X	X	X	
MW-07	GW	26H0718-08	8/11/2026	X	X	X	X	X	X	
MW-43	GW	26H0718-09	8/11/2026	X	X	X	X	X	X	
MW-20	GW	26H0718-10	8/11/2026	X	X	X	X	X	X	
MW-17	GW	26H0718-11	8/11/2026	X	X	X	X	X	X	
MW-18	GW	26H0718-12	8/11/2026	X	X	X	X	X	X	
MWT-18	GW	26H0718-13	8/11/2026	X	X	X	X	X	X	
MW-37	GW	26H0718-14	8/11/2026	X	X	X	X	X	X	
MW-38	GW	26H0718-15	8/11/2026	X	X	X	X	X	X	
MW-36	GW	26H0718-16	8/11/2026	X	X	X	X	X	X	
MW-01RB	GW	26H0718-17	8/11/2026	X	X	X	X	X	X	
MW-01R	GW	26H0718-18	8/11/2026	X	X	X	X	X	X	
MW-13	GW	26H0718-19	8/11/2026	X	X	X	X	X	X	
MW-16	GW	26H0718-20	8/11/2026	X	X	X	X	X	X	
MWT-16	GW	26H0718-21	8/11/2026	X	X	X	X	X	X	
LLHGTB-08112026	AQ	26H0718-22	8/11/2026		X					
MW-39	GW	26H0718-23	8/12/2026	X	X	X	X	X	X	
MW-02	GW	26H0718-24	8/12/2026	X	X	X	X	X	X	
MW-11	GW	26H0718-25	8/12/2026	X	X	X	X	X	X	
MW-06	GW	26H0718-26	8/12/2026	X	X	X	X	X	X	
MW-34	GW	26H0718-27	8/12/2026	X	X	X	X	X	X	
MW-19	GW	26H0718-28	8/12/2026	X	X	X	X	X	X	
MW-32	GW	26H0718-29	8/12/2026	X	X	X	X	X	X	
MW-08	GW	26H0718-30	8/12/2026	X	X	X	X	X	X	
MW-28	GW	26H0718-31	8/12/2026	X	X	X	X	X	X	
MW-27	GW	26H0718-32	8/12/2026	X	X	X	X	X	X	
MW-12	GW	26H0718-33	8/12/2026	X	X	X	X	X	X	
LLHGTB-08122026	AQ	26H0718-34	8/12/2026		X					
MW-33	GW	26H0718-35	8/13/2026	X	X	X	X	X	X	
MW-03	GW	26H0718-36	8/13/2026	X	X	X	X	X	X	
MW-04R	GW	26H0718-37	8/13/2026	X	X	X	X	X	X	
MW-31	GW	26H0718-38	8/13/2026	X	X	X	X	X	X	
MW-04	GW	26H0718-39	8/13/2026	X	X	X	X	X	X	
SG-02	SW	26H0718-40	8/13/2026	X	X	X	X	X	X	
SG-07	SW	26H0718-41	8/13/2026	X	X	X	X	X	X	
LLHGTB-08132026	AQ	26H0718-42	8/13/2026		X					

Other analytes requested for analysis: Na, Mg, K, HCO_3, CO_3, hardness

Any planned sampling or analysis NOT completed? If yes, explain: SG-04R and SG-05 were not collected. The sampling locations were dry.

Data Verification & Validation Checklist

Review Category	Verify Complete		Validation Criteria	Criteria Met?			Description of Nonconformance and Qualification (if applicable)
	Yes	No		Yes	No	N/A	
Field Data							
Sample Collection Field Forms	X		Purging performed as required in the Groundwater Monitoring Plan	X			
Field Calibration Records	X		Field instruments calibrated daily according to manufacturer specifications	X			
Chain of Custody	X		Accurately reflect samples, collection dates/times, analyses, bottles, etc.	X			
Field decontamination documentation	X		Record of decontamination for non-dedicated sampling equipment	X			
Drilling logs	X		N/A	-	-	-	
Well construction logs	X		N/A	-	-	-	
Well development field forms	X		N/A	-	-	-	
Analytical Data Package							
Cover Sheet	X		N/A	-	-	-	
Case Narrative	X		Summarizes sample receipt and any exceptions to QC acceptance criteria	X			
Internal Laboratory Chain of Custody forms	X		Analyses as requested; accurate transcription of field COC	X			
Sample Chronology and Consistency	X		Accurate representation of dates, times of receipt, preparation, and analysis	X			
Communication Records with Lab	X		E-mail records saved with final report	X			
EDD Format Consistency	X		EDD format and content as requested	X			
Sample Identification, Results Nomenclature, and Data Qualifier Consistency	X		All included in final report	X			
Method Detection Limit Consistency	X		MDLs consistent between samples		X		Dilution varies between samples.
Instrument Calibration Records	X		Present and no nonconformance noted	X			
Laboratory Report Complete	X		Includes QC component	X			
Holding Times	X		Analyses performed within allowed holding time		X		pH required qualification in 38 samples.

Review Category	Verify Complete		Validation Criteria	Criteria Met?			Description of Nonconformance and Qualification (if applicable)
	Yes	No		Yes	No	N/A	
Method	X		Method as requested	X			
Reporting Limits	X		RLs as requested	X			RLs for the following were not met: Sulfate – 2 samples (results > RL) TDS – 38 samples (results > RL) TSS – 20 samples (7 ND results)
			MDLs<RLs	X			MDLs = RLs for TSS
			MDLs<GPS	X			
QC Validation							
Evaluate Accuracy							
Matrix Spike (Recovery)	X		See "Minimum QC Procedures for Project Parameters" table	X			
Laboratory Control Sample (Recovery)	X		See "Minimum QC Procedures for Project Parameters" table	X			
Evaluate Precision							
Matrix Spike Duplicate (RPD)	X		See "Minimum QC Procedures for Project Parameters" table	X			
Field Duplicate (RPD)	X		RPD ≤ 20%		X		See Below.
Evaluate Representativeness							
Equipment Blanks (if applicable)	N/A		Non-detect (<RL)	X			
QC Verification							
Verify Instrument Calibration & Analytical Process							
Initial Calibration Verification	X		Laboratory-determined	-	-	-	
Continuing Calibration Verification	X		Laboratory-determined	-	-	-	
Initial Calibration Blank	X		Laboratory-determined	-	-	-	
Continuing Calibration Blank	X		Laboratory-determined	-	-	-	
Serial Dilutions	X		Laboratory-determined	-	-	-	
Post-Digestion Spikes	X		Laboratory-determined	-	-	-	
Internal Standards	X		Laboratory-determined	-	-	-	
Laboratory Duplicate (RPD)	X		Laboratory-determined	-	-	-	
Method Blanks	X		Laboratory-determined	-	-	-	
Evaluate Completeness (# usable measurements/ # unusable measurements)							
Completeness	X		100%	X			

Comments:

pH required qualification as estimated due to analysis outside of the holding time in 40 samples.

The RPDs of lead, nickel, copper, zinc, Radium-228, and Combined Radium-226+228 were outside of control limits for the MW-10 and MWT-10 parent sample and field duplicate pair. Lead, nickel, copper, zinc, Rad-228, and Combined Radium-226+228 required qualification as estimated with high bias (J+) in parent sample MW-10 and as estimated with low bias (J-) in field duplicate sample MWT-10.

Antimony was detected in parent sample MW-10, but was not detected in field duplicate sample MWT-10. Antimony required qualification as estimated with high bias (J+) in parent sample MW-10 and as estimated but not detected (UJ) in field duplicate MWT-10.

The RPDs of lead, cobalt, and nickel were outside of control limits for the MW-16 and MWT-16 parent sample and field duplicate pair. Lead required qualification as estimated with low bias (J-) in parent sample MW-16 and as estimated with high bias (J+) in field duplicate MWT-16. Cobalt and nickel required qualification as estimated with high bias (J+) in parent sample MW-16, and as estimated with low bias (J-) in field duplicate MWT-16.

Mercury and copper were not detected in parent sample MW-16 but were detected in field duplicate sample MWT-16. Mercury and copper required qualification as estimated but not detected (UJ) in parent sample MW-16 and as estimated with high bias (J+) in field duplicate sample MWT-16.

The RPDs of mercury, boron, Radium-226, and Combined Radium-226+228 were outside of control limits for the MW-18 and MWT-18 parent sample and field duplicate pair. Mercury, Radium-226, and Combined Radium-226+228 required qualification as estimated with low bias (J-) in parent sample MW-18 and as estimated with high bias (J+) in field duplicate MWT-18. Boron required qualification as estimated with high bias (J+) in parent sample MW-18 and as estimated with low bias (J-) in field duplicate MWT-18.

Appendix D

Analytical Data Tables

Appendix D
Analytical Data Reporting Tables
Former J.B. Sims Generating Station
Renew Harbor Island

Sample Location:		MW-01R	MW-01R	MW-01R	MW-01R	MW-01R	MW-01R	MW-01R	MW-01R	MW-01R	MW-01R	MW-01R	MW-01R	MW-01R	MW-01R	MW-01R	MW-01R	MW-01R	MW-01R	MW-01R	MW-01R
Compliance Phase:		Background	Background	Background	Background	Background	Background	Background	Background	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment
Sample Date:		11/29/2022	1/3/2023	2/8/2023	3/14/2023	4/18/2023	5/23/2023	6/28/2023	8/8/2023	10/24/2023	2/13/2024	4/10/2024	7/18/2024	10/16/2024	2/25/2025	4/20/2025	8/13/2025	10/22/2025	2/19/2026	4/22/2026	8/11/2026
Sample Type:		Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
Unit:		Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2
Sample Matrix:		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Constituent	**Unit**																				
Field Parameters																					
Conductivity	mS/cm	2.39	3.06	2.731	2.595	3	3.1	3.23	3.22	3.13	2.51	2.87	3.13	2.89	2.97	2.71	3.09	3.271	2.99	2.96	3.17
Dissolved Oxygen	mg/L	0.08	0.05	0.07	0.28	0.11	0.03	0.01	0.01	0.03	0.22	1.35	0.01	0.01	0.02	0.05	0.06	0.13	0.22	0.09	0.05
Oxidation Reduction Potential	mV	42.3	3.6	-155.6	-185.5	-202.3	-210.1	-163.8	-165.1	-126.2	-57.3	-197.9	-316.1	7.7	-80.5	-203.4	-23.4	-274	-212.6	5.6	-317.2
pH	su	7.74	6.02	7.75	7.76	7.75	7.8	7.81	7.68	7.71	7.52	7.58	7.73	7.72	7.75	7.81	7.72	7.63	7.79	7.57	7.57
Temperature	°C	12.5	9	6.9	5.9	7.2	10.7	13.5	17.2	16.1	6.1	7.5	16.3	17	7.4	8.6	18.4	16.3	8.3	9.1	18
Turbidity	NTU	0.02	0.26	0.17	0.02	0.02	0.02	0.02	1.33	0.95	1.79	0.02	0.02	1.36	0.02	0.02	1.39	1.03	0.02	0.96	2.64
Appendix III																					
Boron	mg/L	100	110	73	70	78	110	150 J+	140	160	38	64	150	130	120	100	140	160	110	55	130
Calcium	mg/L	240	200	290	310	280	240	210	160	130	400	350	160	160	190	260	170	140	230	420	200
Chloride	mg/L	150	160	52	120	130	150	170	180	210	49	67	170	150	120	94	130	150	96	46	97
Fluoride	mg/L	14	14	9.5	8.1	8.8	10	15	14	14	4.8	6.7	15	16	14	11	16	17	13	6.9	12
Sulfate (as SO4)	mg/L	590	400	350	780	780	540	290	110	8.8	980	810	100	130	310	570	160	47	420	1000	380
Total Dissolved Solids	mg/L	2400 J-	2300	2200	2100	2400	2400	2400	2400	2600	2200	2300	2500	2300	2400	2300	2400	2500	2300	2500	2600
Appendix IV																					
Antimony	mg/L	0.00033	0.00023 J	< 0.00025 U	0.00034	0.0012	< 0.00050 U	0.00071 J	0.00025	0.00022 J	< 0.00050 U	0.00017 J	0.00018 J	0.00019 J	0.00021 J	0.00018 J	0.00025	0.00032	0.00098	0.0029	0.00037
Arsenic	mg/L	0.0020	0.0015	0.0013	0.0013	0.00077	0.00073	0.0019 J+	0.0017	0.0013	0.0041	0.0013	0.0014	0.0015	0.0013	0.0013	0.0015	0.0012	0.0021	0.0015	0.0016
Barium	mg/L	0.30	0.30	0.25	0.22	0.21	0.29	0.29	0.38	0.56	0.54	0.20	0.33	0.42	0.38	0.40	0.55	0.81	0.48	0.22	0.39
Beryllium	mg/L	0.00021 J	0.00032	0.00020 J	0.00020 J	0.00012 J	0.00020 J	0.00036 J+	0.00035	0.00026	0.00015 J	< 0.000052 U	0.00013 J	< 0.000052 U	0.00012 J	0.00017 J	0.00031	0.00031	0.00013 J	0.00011 J	0.00044
Cadmium	mg/L	0.00011 J	0.000062 J	< 0.00016 U	< 0.000032 U	< 0.00016 U	< 0.00038 U	0.00034 J+	< 0.000075 U	< 0.000075 U	< 0.00038 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	0.00014 J	0.00030	0.0019	0.00052
Chromium, Total	mg/L	0.0013	0.0024	0.0016	0.0016	0.0013	0.0019	0.0043	0.0037	0.0022	0.022	0.0013	0.0033	0.0021	0.0019	0.0017	0.0025	0.0028	0.0018	0.0015	0.0036
Cobalt	mg/L	0.0011	0.0012	0.0011	0.0023	0.0017	0.00081	0.0045 J+	0.0016	0.001	0.0040	0.00064	0.0011	0.00095	0.0011	0.00098	0.0012	0.0020	0.023	0.084	0.0025
Fluoride	mg/L	14	14	9.5	8.1	8.8	10	15	14	14	4.8	6.7	15	16	14	11	16	17	13	6.9	12
Lead	mg/L	0.0014	0.00082	< 0.0011 U	0.00044 J	< 0.0011 U	0.00080 J	0.0053 J+	0.0010 J	0.00074	0.0017 J	0.00035 J	0.00062 J	0.00069 J	0.00087 J	0.00038 J	0.00063	0.0016	0.0040	0.0075	0.0026
Lithium	mg/L	2.2	2.8	1.6	1.7	1.5	2.3	3.2	3.3	3.4	0.77	1.5	2.9	2.6	2.7	2.1	3.1	3.0	2.5	1.3	2.7
Mercury	mg/L	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00000016 U	0.00000052	0.00000087	0.0000031	0.0000063	< 0.00000016 U
Molybdenum	mg/L	0.0011 J	0.00062 J	0.00076 J	0.0020	< 0.0031 U	0.00033 J	0.00077 J+	0.00082 J	0.00074 J	0.0056	0.0016	0.00037 J	0.00034 J	0.00068 J	< 0.00025 U	0.00064 J	0.00038 J	0.0017	0.0058	0.00052 J
Radium 226 and 228	pCi/L	< 0.656 UJ	< 0.828 U	1.06	1.28	< 0.737 U	< 1.1 U	0.601	1.26	< 0.674 U	1.09	< 0.682 U	< 1.23 U	1.48	< 0.84 U	< 0.914 U	< 0.957 U	< 0.982 U	< 0.973 U	< 1.08 U	1.22
Radium-226	pCi/L	< 0.176 UJ	< 0.125 U	< 0.139 U	< 0.212 U	< 0.233 U	< 0.322 U	< 0.164 U	0.152	< 0.182 U	< 0.137 U	< 0.21 U	0.218	< 0.268 U	0.32	< 0.306 U	< 0.454 U	< 0.312 U	< 0.196 U	< 0.254 U	< 0.293 U
Radium-228	pCi/L	< 0.656 UJ	< 0.828 U	0.982	1.23	< 0.737 U	< 1.1 UJ	< 0.534 U	1.11	< 0.674 U	1.05	< 0.682 U	< 1.23 U	1.37	< 0.84 U	< 0.914 U	< 0.957 U	< 0.982 U	< 0.973 U	< 1.08 U	1.05
Selenium	mg/L	0.00060	0.00059	0.00058	0.00097	0.00056	0.00030 J	0.00076 J+	0.00066	0.00073	0.0018	0.00050	0.00079	0.00073	0.00064	0.00045 J	0.00068	0.00074	0.00078	0.0026	0.00084
Thallium	mg/L	< 0.000075 U	< 0.000075 U	< 0.00038 U	< 0.000075 U	< 0.00038 U	< 0.00038 U	< 0.00038 UJ	< 0.00038 U	< 0.000075 U	< 0.00038 U	< 0.000075 U	< 0.00038 U	< 0.00038 U	< 0.00038 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U
Total Suspended Solids	mg/L	3.0 J	2.0 J	5.0	2.0 J	2.0 J	< 4.0 U	2.0 J	3.0 J	< 4 U	< 4.0 U	< 4.0 U	< 4.0 U	5.0	< 4.0 U	< 4.0 U	< 4.0 U	< 4.3 U	< 4.1 U	27	< 3.9 U
Michigan CCR Part 115																					
Copper	mg/L	0.00027	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	0.0013	0.00045	0.00029	0.0010	0.00029	0.00029	0.00030	0.00042	< 0.00020 U	0.00031	0.00035	0.0014	0.0028	0.00048
Iron	mg/L	0.75	1.1	0.55	0.50	0.59	0.79	0.48	0.16	0.22	0.85	1.0	0.088	0.093	0.13	0.090	0.059	0.16	1.4	1.1	0.55
Nickel	mg/L	0.0015	0.0025	0.0016	0.0026	0.0018	0.0013	0.0053	0.0027	0.0021	0.022	0.0012	0.0020	0.0019	0.0018	0.0018	0.0023	0.0030	0.018	0.068	0.0032
Silver	mg/L	< 0.000050 U	< 0.000050 U	< 0.00025 U	< 0.000050 U	< 0.00025 U	< 0.00025 U	< 0.000050 U	< 0.000050 U	< 0.00005 U	< 0.00025 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U
Vanadium	mg/L	0.00069 J	0.00067 J	< 0.00062 U	< 0.00062 U	0.0013	0.0016	0.0046	0.0035	0.0018	0.0018	0.0014	0.0041	0.0020	0.0019	0.0021	0.0035	0.0037	0.0021	0.0024	0.0047
Zinc	mg/L	0.014	0.0012	0.0012	0.0018	0.013	< 0.0012 U	0.0085	0.0012	0.0013	0.0016	< 0.0012 U	< 0.0012 U	0.023	0.033	0.0012	0.028	0.0032	0.052	0.14	0.011
Additional Parameters																					
Bicarbonate Alkalinity	mg/L	1100	1200	870	830	920	1100	1300	1400	1700	560	820	1500	1400	1300	1000	1500	1600	1300	810	1400
Carbonate Alkalinity	mg/L	< 1.6 U	< 1.6 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.31 U	< 0.16 U	< 0.31 U	< 0.31 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.16 U
Magnesium	mg/L	110	92	110	110	120	110	100	96	100	110	120	100	99	120	110	90	110	120	110	86
Potassium	mg/L	69	66	50	43	60 J	65	89	90	98	34	50	86	86	85	64	91	100	84	48	90
Sodium	mg/L	330	370	250	240	280	380	430	430	500	140	220	430	400	410	310	440	470	370	200	340
Total Alkalinity	mg/L	1100	1200	870	830	920	1100	1300	1400	1700	560	820	1500	1400	1300	1000	1500	1600	1300	810	1400

Notes:

ug/l - micrograms per liter.

mg/l = milligrams per liter.

su - standard pH units (pH is a field parameter)

pCi/L = picocuries per liter.

All metals were analyzed as total unless otherwise indicated.

Qualifiers:

U The analyte was analyzed for, but was not detected at, a level greater than or equal to the level of the adjusted reporting limit (RL) for the sample and method.

J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to the concentration of the analyte being below the RL).

J+ Same as J, and the reported concentration is potentially biased high.

J– Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Appendix D
Analytical Data Reporting Tables
Former J.B. Sims Generating Station
Renew Harbor Island

Sample Location:		MW-01RB	MW-01RB	MW-01RB	MW-01RB
Compliance Phase:		Post Development Sample	Assessment	Assessment	Assessment
Sample Date:		12/22/2025	2/19/2026	4/22/2026	8/11/2026
Sample Type:		Field Sample	Field Sample	Field Sample	Field Sample
Unit:		Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2
Sample Matrix:		Groundwater	Groundwater	Groundwater	Groundwater
Constituent	**Unit**				
Field Parameters					
Conductivity	mS/cm	0.868	1.18	1.13	1.12
Dissolved Oxygen	mg/L	0.01	0.28	0.24	0.13
Oxidation Reduction Potential	mV	-117.5	-136.4	-115.1	-142.8
pH	su	7.06	7.12	7.11	6.92
Temperature	deg c	12.1	12.5	12.8	15.3
Turbidity	NTU	0.02	2.05	0.02	1.46
Appendix III					
Boron	mg/L	3.9	2.8	3.2	5.2
Calcium	mg/L	140	140	140	130
Chloride	mg/L	53	73	43	45
Fluoride	mg/L	0.60	0.59	0.50	0.40
Sulfate (as SO4)	mg/L	17	15	11	0.65 J
Total Dissolved Solids	mg/L	650	640	640	660
Appendix IV					
Antimony	mg/L	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U
Arsenic	mg/L	0.00078	0.00058	0.00046 J	0.0021
Barium	mg/L	0.27	0.28	0.29	0.25
Beryllium	mg/L	< 0.000052 U	0.000083 J	< 0.00010 U	< 0.00010 U
Cadmium	mg/L	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U
Chromium, Total	mg/L	0.00047	0.00039	0.00023 J	0.00046
Cobalt	mg/L	0.00064	0.00078	0.00037 J	0.00087
Fluoride	mg/L	0.60	0.59	0.50	0.40
Lead	mg/L	0.00031 J	0.00044 J	< 0.00010 U	0.00013 J
Lithium	mg/L	0.053	0.052	0.047	0.062
Mercury	mg/L	0.00000067	0.00000083	< 0.00000016 U	< 0.00000016 U
Molybdenum	mg/L	0.00058 J	0.00058 J	0.00048 J	0.00093 J
Radium 226 and 228	pCi/L	2.48	< 1.52 U	1.38	1.96
Radium-226	pCi/L	1.02	0.763	< 0.197 U	0.801
Radium-228	pCi/L	1.46	< 1.52 U	1.2	1.16
Selenium	mg/L	0.00079	< 0.00010 U	< 0.00010 U	< 0.00010 U
Thallium	mg/L	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U
Total Suspended Solids	mg/L	14	5.0	12	57
Michigan CCR Part 115					
Copper	mg/L	--	0.00041	< 0.00020 U	0.00023 J
Iron	mg/L	11	9.5	10	17
Nickel	mg/L	0.00048 J	0.00064 J	0.00022 J	0.00060 J
Silver	mg/L	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U
Vanadium	mg/L	0.00078 J	0.00061 J	0.00042 J	0.00099 J
Zinc	mg/L	0.024	0.028	0.024	0.0079
Additional Parameters					
Bicarbonate Alkalinity	mg/L	--	530	530	520
Carbonate Alkalinity	mg/L	--	< 0.16 U	< 0.31 U	< 0.16 U
Magnesium	mg/L	--	34	32	28
Potassium	mg/L	--	10	11	8.9
Sodium	mg/L	--	56	43	50
Total Alkalinity	mg/L	--	530	530	520

Notes:

ug/l - micrograms per liter.
mg/l = milligrams per liter.
su - standard pH units (pH is a field parameter)
pCi/L = picocuries per liter.
All metals were analyzed as total unless otherwise indicated.

Qualifiers:

U The analyte was analyzed for, but was not detected at, a level greater than or equal to the level of the adjusted reporting limit (RL) for the sample and method.
J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to the concentration of the analyte being below the RL).
J+ Same as J, and the reported concentration is potentially biased high.
J– Same as J, and the reported concentration is potentially biased low.
UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.
R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Appendix D
Analytical Data Reporting Tables
Former J.B. Sims Generating Station
Renew Harbor Island

Sample Location:		MW-02	MW-02	MW-02	MW-02	MW-02	MW-02	MW-02	MW-02	MW-02	MW-02	MW-02	MW-02	MW-02	MW-02	MW-02	MW-02	MW-02	MW-02	MW-02	MW-02
Compliance Phase:		Background	Background	Background	Background	Background	Background	Background	Background	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment
Sample Date:		11/28/2022	1/4/2023	2/8/2023	3/14/2023	4/18/2023	5/23/2023	6/27/2023	8/8/2023	10/24/2023	2/13/2024	4/10/2024	7/17/2024	10/15/2024	2/25/2025	4/19/2025	8/13/2025	10/22/2025	2/17/2026	4/22/2026	8/12/2026
Sample Type:		Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
Unit:		Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B
Sample Matrix:		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Constituent	**Unit**																				
Field Parameters																					
Conductivity	mS/cm	3.36	4.1	3.07	2.616	3.66	3.524	4.17	4.07	4.21	3.4	3.89	4.42	4.2	5.22	3.03	3.86	4.08	5.49	3.35	4.15
Dissolved Oxygen	mg/L	0.28	0.49	0.2	0.41	0.08	0.06	0.07	0.1	0.03	0.26	0.15	0.45	0.85	0.99	0.38	0.04	0.08	0.07	0.1	0.1
Oxidation Reduction Potential	mV	89.4	-215.7	-185.2	-169.9	-135.7	-138.9	-137.4	-133.8	-166.8	-146.1	-140.3	-135.6	-158.6	104.7	-100.8	-154.8	-159.6	-163.3	-167.7	-175.2
pH	su	7.11	7.06	7.33	7.35	7.13	7.45	7.29	7.21	7.11	7.25	7.26	7.13	7.15	7.11	7.15	7.18	7.2	7.28	7.17	7.13
Temperature	deg c	12.8	12	11.2	9.6	10.2	11.7	12.1	14	15	10.3	11.4	15	13.4	10.7	10.3	15.4	13.3	10.8	11.3	15.6
Turbidity	NTU	0.02	0.02	0.02	0.49	3.66	5.05	6.89	3.3	8.78	5.11	9.03	0.02	9.7	4.15	0.02	15.5	9.1	1.9	5.13	9.67
Appendix III																					
Boron	mg/L	88	86	100	98	73	95	110 J+	99	110	100	110	110	110	170	170	120	59	190	72	91
Calcium	mg/L	210	180	210	240	190	210	210	180	190	220	210	200	190	180	200	170	190	170	210	140
Chloride	mg/L	150	140	67	140	150	140	140	130	140	140	140	160	150	150	150	160	150	150	120	150
Fluoride	mg/L	9.2	10	4.5	9.4	8.7	9.2	10	9.7	9.7	9.5	10	10	11	16	13	12	13	15	8.3	10
Sulfate (as SO4)	mg/L	0.86 J	2.2 J	< 0.41 U	1.1 J	< 0.41 U	< 0.41 U	< 0.41 U	0.93 J	< 0.41 U	< 0.41 U	< 5.5 U	< 2.2 U	1.8 J	< 2.2 U	< 2.2 U	1.3 J	1.9 J	1.6 J	51	5.1 J
Total Dissolved Solids	mg/L	1700	1800	1900	1700	1700	1800	2100 J	1900	1600	1800	2000	2100	2000	2600	2000	2000	2200	2500	1600	1900
Appendix IV																					
Antimony	mg/L	0.00015 J	0.00016 J	< 0.00025 U	0.00019 J	0.00063 J	< 0.00050 U	0.00024 J	0.00018 J	0.00029	< 0.00010 U	0.00024 J	0.00015 J	0.00019 J	0.00027	0.00026	0.00014 J	0.00022 J	0.00044	0.00011 J	0.00012 J
Arsenic	mg/L	0.0082	0.0076	0.0086	0.0078	0.0083	0.012	0.0096 J+	0.0086	0.0074	0.00044 J	0.0075	0.0061	0.0066	0.0095	0.0059	0.0055	0.0065	0.010	0.0054	0.0046
Barium	mg/L	0.51	0.53	0.55	0.51	0.38	0.48	0.47	0.45	0.42	0.73	0.46	0.33	0.32	0.35	0.50	0.45	0.52	0.52	0.47	0.52
Beryllium	mg/L	0.00028	0.00034	0.00042	0.00029	0.00015 J	0.00021 J	0.00032 J+	0.00043	0.00052	< 0.000052 U	0.00012 J	0.00019 J	0.00018 J	0.00022 J	0.00032	0.00016 J	0.00026	0.00028	< 0.00010 U	0.00028
Cadmium	mg/L	< 0.000032 U	0.000046 J	< 0.00016 U	0.000041 J	< 0.00016 U	< 0.00038 U	< 0.000075 UJ	< 0.000075 U	0.00049	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	0.000078 J	0.000078 J	< 0.000075 U	< 0.000075 U	0.000093 J	< 0.000075 U	< 0.000075 U
Chromium, Total	mg/L	0.022	0.054	0.057	0.046	0.019	0.030	0.068	0.054	0.032	0.00038	0.039	0.047	0.033	0.063	0.068	0.033	0.045	0.066	0.014	0.025
Cobalt	mg/L	0.0038	0.0060	0.0080	0.0066	0.0031	0.0039	0.0089 J+	0.0076	0.0063	0.00024 J	0.0061	0.0063	0.0055	0.0097	0.0095	0.0056	0.0085	0.012	0.0034	0.0039
Fluoride	mg/L	9.2	10	4.5	9.4	8.7	9.2	10	9.7	9.7	9.5	10	10	11	16	13	12	13	15	8.3	10
Lead	mg/L	0.0010	0.0024	0.0030	0.0027	0.0018 J	0.0041	0.0039 J+	0.0017	0.002	< 0.00010 U	0.0056	0.0023 J	0.0020 J	0.0060	0.0050	0.0012 J	0.0023	0.0051	0.00045 J	0.00042 J
Lithium	mg/L	1.2	1.5	1.5	1.6	0.87	1.2	1.7	1.4	1.2	1.4	1.5	1.3	1.3	2.3	2.0	1.5	1.5	2.5	1.0	1.2
Mercury	mg/L	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	0.0000054	0.0000023	0.0000016	0.0000032	0.0000012	0.0000011
Molybdenum	mg/L	0.0052	0.0062	0.011	0.011	0.0088	0.0064	0.0062 J+	0.0052	0.0051	0.0038	0.0052	0.0045	0.0048	0.016	0.013	0.0052	0.0072	0.029	0.0089	0.00091 J
Radium 226 and 228	pCi/L	< 2.18 U	< 2.8 U	3.35	1.56	< 0.686 U	1.67	1.67	2.45	1.16	1.95	2.24	< 1.21 U	1.33	--	< 1.1 U	1.87	2.35	< 2.69 U	1.92	2.49
Radium-226	pCi/L	< 0.547 U	0.781	0.642	0.398	< 0.302 U	0.58	0.714	0.743	< 0.354 U	1.07	< 0.432 U	0.488	0.772	--	0.565	< 0.813 U	0.732	1.03	0.559	0.793
Radium-228	pCi/L	< 2.18 UJ	< 2.8 U	< 3.21 U	< 1.24 U	< 0.686 U	< 1.2 UJ	0.957	1.71	< 0.897 U	0.882	1.83	< 1.21 U	< 1.1 U	--	< 1.1 U	1.35	< 1.94 U	< 2.69 U	1.36	1.7
Selenium	mg/L	0.0010	0.0012	0.0012	0.00095	0.00050	0.0010	0.0014 J+	0.0012	0.0018	0.00056	0.0014	0.0014	0.0014	0.0023	0.0017	0.0012	0.0018	0.0022	0.00070	0.00098
Thallium	mg/L	< 0.000075 U	< 0.000075 U	< 0.00038 U	< 0.000075 U	< 0.00038 U	< 0.00038 U	< 0.000075 UJ	< 0.000075 U	0.00062	< 0.000075 U	< 0.000075 U	< 0.00038 U	< 0.00038 U	< 0.00038 U	< 0.000075 U	< 0.00038 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U
Total Suspended Solids	mg/L	67	58	58	56	100	90	20	16	6.1	59	40	53	6.0	8.0	70	18	6.3	< 4.1 U	100	89
Michigan CCR Part 115																					
Copper	mg/L	0.00081	0.0018	0.0025	0.0020	0.0011	0.0014	0.0026	0.0018	0.0025	0.00023 J	0.0028	0.0020	0.0015	0.0044	0.0037	0.0010	0.0023	0.0047	0.0013	0.0011
Iron	mg/L	23	22	24	30	27	27	24	20	18	31	25	22	19	21	28	22	18	21	28	24
Nickel	mg/L	0.015	0.023	0.042	0.035	0.017	0.014	0.025	0.022	0.018	0.00093 J	0.025	0.018	0.018	0.053	0.042	0.023	0.034	0.074	0.021	0.015
Silver	mg/L	< 0.000050 U	< 0.000050 U	< 0.00025 U	< 0.000050 U	< 0.00025 U	< 0.00025 U	< 0.000050 U	< 0.000050 U	< 0.00005 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U
Vanadium	mg/L	0.0014	0.0036	0.0035	0.0032	0.0013	0.0026	0.0067	0.0049	0.0044	< 0.00062 U	0.0062	0.0057	0.0035	0.0049	0.0069	0.0027	0.0050	0.0055	0.0012	0.0024
Zinc	mg/L	0.023	0.0030	0.0033	0.0022	0.025	0.0019	0.0027	0.0041	0.0036	0.0020	0.0033	0.0024	0.020	0.036	0.0036	0.0016	0.0027	0.044	0.034	0.0082
Additional Parameters																					
Bicarbonate Alkalinity	mg/L	1900	2000	1900	1800	1800	1900	460	2100	2300	1800	2000	2200	2200	2700	2100	2300	2400	2900	1700	2000
Carbonate Alkalinity	mg/L	< 1.6 U	< 1.6 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.31 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.39 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.16 U
Magnesium	mg/L	63	59	70	78	68	71	62	58	57	77	68	63	60	56	75	60	55	56	66	61
Potassium	mg/L	50	44	53	45	41	44	56 J	46	47	50	53	48	48	70	61	49	50	72	40	46
Sodium	mg/L	250	250	260	260	220	280	320	310	310	280	300	320	310	470	410	320	360	470	230	210
Total Alkalinity	mg/L	1900	2000	1900	1800	1800	1900	460	2100	2300	1800	2000	2200	2200	2700	2100	2300	2400	2900	1700	2000

Notes:

ug/l - micrograms per liter.

mg/l = milligrams per liter.

su - standard pH units (pH is a field parameter)

pCi/L = picocuries per liter.

All metals were analyzed as total unless otherwise indicated.

Qualifiers:

U The analyte was analyzed for, but was not detected at, a level greater than or equal to the level of the adjusted reporting limit (RL) for the sample and method.

J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to the concentration of the analyte being below the RL).

J+ Same as J, and the reported concentration is potentially biased high.

J– Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Appendix D
Analytical Data Reporting Tables
Former J.B. Sims Generating Station
Renew Harbor Island

Sample Location:		MW-03	MW-03	MW-03	MW-03	MW-03	MW-03	MW-03	MW-03	MW-03	MW-03	MW-03	MW-03	MW-03	MW-03	MW-03	MW-03	MW-03	MW-03	MW-03	MW-03	MW-03
Compliance Phase:		Background	Background	Background	Background	Background	Background	Background	Background	Background	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment
Sample Date:		11/28/2022	1/4/2023	2/7/2023	3/14/2023	4/18/2023	5/23/2023	6/28/2023	8/7/2023	10/24/2023	2/14/2024	4/7/2024	7/18/2024	10/15/2024	2/26/2025	4/21/2025	8/13/2025	10/22/2025	2/19/2026	4/20/2026	8/13/2026
Sample Type:		Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
Unit:		Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B
Sample Matrix:		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Constituent	**Unit**																				
Field Parameters																					
Conductivity	mS/cm	0.344	3.52	3.43	2.459	3.15	3.08	3.19	3.19	3.03	2.98	2.81	2.87	2.69	2.7	2.6	2.367	2.957	2.59	2.59	2.69
Dissolved Oxygen	mg/L	0.16	0.26	0.2	0.21	0.03	0.01	0.05	0.09	0.06	0.2	0.02	0.02	0.31	0.09	0.12	0.14	0.25	0.46	0.1	0.11
Oxidation Reduction Potential	mV	-180	-139.7	-212.9	-184.2	-92.8	-194.3	-129.6	-110.7	-116.1	-194.1	-220.8	-30.3	-106.1	-49.8	-178.7	-215	-195.7	-158.3	-195	-186.3
pH	su	7.31	7.32	7.2	7.45	7.26	7.59	7.44	7.31	7.28	7.44	7.46	7.3	7.38	7.33	7.4	7.38	7.28	7.33	7.39	7.28
Temperature	deg c	13.3	11.4	9.2	7.3	9.3	11.8	12.5	14.9	14.9	9.6	10.1	15	14	9.3	9.1	16.4	14.3	9.8	9.3	15.3
Turbidity	NTU	0.02	0.68	2.4	0.02	1.4	0.02	0.02	0.21	0.26	2.12	0.02	0.02	0.31	0.02	0.02	0.33	0.02	1.92	0.02	2.16
Appendix III																					
Boron	mg/L	4.4	3.3	4.2	4.3	3.9	4.1	4.3 J+	4.1	4.3	4.5	3.9	3.9	4.4	3.7	4.5	4.1	4.0	3.7	3.5	3.5
Calcium	mg/L	390	290	400	410	360	400	430	350	380	360	350	340	330	320	340	360	350	310	300	320
Chloride	mg/L	300	190	240	190	150	140	160	170	180	140	99	120	120	110	94	110	130	99	72	96
Fluoride	mg/L	0.65	1.6	0.62	0.52	0.60	0.54	0.54	0.61	0.6	0.61	0.60	0.62	0.62	0.65	0.70	0.83	0.87	0.76	0.74	0.84
Sulfate (as SO4)	mg/L	42	460	230	550	760	690	510	480	380	310	360	310	170	34	240	130	55	29	170	68
Total Dissolved Solids	mg/L	2200 J-	1700	2300	2300	2300	2300	2300	2300	2200	2000	1900	1900	1800	1700	1700	1800	1700	1600	1600	1700
Appendix IV																					
Antimony	mg/L	0.000087 J	0.000092 J	< 0.00025 U	0.00011 J	0.00045 J	< 0.00050 U	< 0.00050 U	< 0.00010 U	< 0.0001 U	< 0.00050 U	0.00016 J	< 0.00010 U	< 0.00010 U	0.00013 J	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U
Arsenic	mg/L	0.00084	0.0011	0.0012 J	0.0011	0.00050 J	0.00049 J	0.00091 J+	0.00076	0.0011	0.00097	0.0014	0.00077	0.00087	0.0011	0.0013	0.00071	0.00058	0.00066	0.00096	0.00055
Barium	mg/L	0.43	0.13	0.50	0.30	0.34	0.43	0.38	0.38	0.41	0.42	0.36	0.27	0.27	0.33	0.37	0.37	0.40	0.33	0.35	0.30
Beryllium	mg/L	< 0.000052 U	< 0.000052 U	< 0.00026 U	0.000053 J	< 0.000052 U	< 0.000052 U	< 0.000052 UJ	< 0.000052 U	0.00015 J	0.000057 J	0.00018 J	0.000054 J	< 0.000052 UJ	< 0.000052 U	< 0.000052 U	0.000074 J	< 0.000052 U	0.000072 J	< 0.00010 U	< 0.00010 U
Cadmium	mg/L	< 0.000032 U	< 0.000032 U	< 0.00016 U	< 0.000032 U	< 0.00016 U	< 0.00038 U	< 0.000075 UJ	< 0.000075 U	0.00011 J	< 0.00038 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U
Chromium, Total	mg/L	0.0046	0.0061	0.0049	0.0073	0.0033	0.0037	0.0060	0.0053	0.003	0.0037	0.0052	0.0045	0.0034 J-	0.0034	0.0050	0.0040	0.0035	0.0031	0.0037	0.0028
Cobalt	mg/L	0.00088	0.00044 J	0.00081 J	0.00097	0.00044 J	0.00050 J	0.0012 J+	0.0011	0.0013	0.00037 J	0.0013	0.00059	0.00061 J-	0.00059	0.00056	0.00070	0.00070	0.00053	0.00086	0.00048 J
Fluoride	mg/L	0.65	1.6	0.62	0.52	0.60	0.54	0.54	0.61	0.6	0.61	0.60	0.62	0.62	0.65	0.70	0.83	0.87	0.76	0.74	0.84
Lead	mg/L	< 0.00022 U	< 0.00022 U	< 0.0011 U	< 0.0011 U	< 0.0011 U	< 0.00050 U	< 0.00050 UJ	< 0.00050 U	0.00022 J	< 0.00050 U	< 0.00010 U	< 0.00050 U	< 0.00050 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U
Lithium	mg/L	0.044	0.065	0.039	0.045	0.037	0.035	0.050	0.041	0.035	0.033	0.029	0.031	0.035	0.031	0.030	0.033	0.030	0.030	0.026	0.029
Mercury	mg/L	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	0.00024	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	0.00000077	0.00000039 J	< 0.00000016 U	0.00000044 J	0.00000058	< 0.00000016 U
Molybdenum	mg/L	< 0.00062 U	0.00072 J	< 0.0031 U	< 0.00062 U	< 0.0031 U	< 0.00025 U	< 0.00025 UJ	< 0.00025 U	0.00085 J	< 0.00025 U	0.0011 J	< 0.00025 U	0.00039 J	< 0.00025 U	< 0.00025 U	< 0.00025 U	< 0.00025 U	0.00067 J	0.0014	< 0.00032 U
Radium 226 and 228	pCi/L	1.92	< 1.32 U	0.75	1.76	0.81	1.38	1.26	0.996	1.34	1.48	1.5	0.786	1.7 J-	0.92	--	1.34	< 1.32 U	< 1.35 U	1.45	3.05
Radium-226	pCi/L	0.583	0.526	0.242	< 0.217 U	0.268	0.574	< 0.209 U	0.417	< 0.312 U	0.466	< 0.288 U	0.22	0.348	< 0.16 U	--	0.758	< 0.426 U	0.256	< 0.407 U	0.4
Radium-228	pCi/L	1.34	< 1.32 U	< 0.67 U	1.55	< 0.767 U	< 1.15 UJ	1.18	< 0.763 U	1.08	1.02	1.42	< 0.609 U	1.36 J-	0.77	--	< 0.825 U	< 1.32 U	< 1.35 U	1.25	2.65
Selenium	mg/L	0.00042 J	< 0.00022 U	< 0.0011 U	0.00040 J	< 0.00022 U	0.00017 J	0.00042 J+	0.00034 J	0.00053	0.00062	0.00049 J	0.00038 J	0.00051	0.00040 J	0.00041 J	0.00036 J	0.00034 J	0.00035 J	0.00029 J	0.00033 J
Thallium	mg/L	< 0.000075 U	< 0.000075 U	< 0.00038 U	< 0.00038 U	< 0.00038 U	< 0.00038 U	< 0.00038 UJ	< 0.00038 U	0.00018 J	< 0.00038 U	< 0.000075 U	< 0.00038 U	< 0.00038 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U
Total Suspended Solids	mg/L	4.0	15	4.0	1.0 J	< 4.0 U	< 4.0 U	< 4.0 U	3.0 J	< 4 U	< 4.0 U	< 4.0 U	< 4.0 U	< 4.0 U	< 4.0 U	< 4.0 U	< 4.0 U	< 4.1 U	< 4.2 U	13	< 1.6 U
Michigan CCR Part 115																					
Copper	mg/L	< 0.00020 U	< 0.00020 U	< 0.0010 U	< 0.00020 U	< 0.00020 U	0.00025	0.00030	0.00024 J	0.00091	0.00025	0.0010	0.00030	0.00086 J+	< 0.00020 U	< 0.00020 U	0.00022 J	< 0.00020 U	< 0.00020 U	0.00056	0.00042
Iron	mg/L	3.7	5.9	2.5	1.6	2.0	0.78	0.31	0.28	0.43	1.4	0.48	0.27	0.12	0.63	1.2	0.098	0.16	0.92	0.98	0.11
Nickel	mg/L	0.0016	0.015	< 0.0032 U	0.0018	0.00085 J	0.00087 J	0.0016	0.0015	0.0017	0.00094 J	0.0022	0.0011 J	0.0012 J-	0.0012	0.0014	0.0013	0.0012	0.0013	0.0016	0.0011 J
Silver	mg/L	< 0.000050 U	< 0.000050 U	< 0.00025 U	< 0.000050 U	< 0.00025 U	< 0.00025 U	< 0.000050 U	< 0.000050 U	< 0.00005 U	< 0.00025 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U
Vanadium	mg/L	< 0.00062 U	< 0.00062 U	< 0.0031 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	0.0012	< 0.00062 U	0.0022	0.0018	0.0015 J-	0.0012	0.0014	0.0015	0.0014	0.0012	0.0016	0.00095 J
Zinc	mg/L	0.019	< 0.0012 U	< 0.0059 U	< 0.0012 U	0.018	< 0.0012 U	0.0019	< 0.0012 U	0.002	< 0.0012 U	0.0013	< 0.0012 U	0.013	< 0.0012 U	< 0.0012 U	0.018	0.00059 J	0.025	0.025	0.022
Additional Parameters																					
Bicarbonate Alkalinity	mg/L	1800	690	1600	1200	1100	1100	1300	1300	1400	1300	1200	1300	1400	1500	1300	1500	1500	1500	1300	1500
Carbonate Alkalinity	mg/L	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.31 U	< 0.16 U	< 0.31 U	70	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.16 U
Magnesium	mg/L	210	91	220	220	210	220	210	200	200	210	200	190	180	190	200	180	170	160	170	160
Potassium	mg/L	20	18	20	15	20	17	20	18	18	19	16	17	17	18	17	18	17	16	14	16
Sodium	mg/L	130	74	120	110	100	110	100	110	100	110	90	89	89	88	92	85	87	78	69	78
Total Alkalinity	mg/L	1800	690	1600	1200	1100	1100	1300	1300	1400	1300	1200	1300	1400	1500	1300	1500	1500	1500	1300	1500

Notes:

ug/l - micrograms per liter.

mg/l = milligrams per liter.

su - standard pH units (pH is a field parameter)

pCi/L = picocuries per liter.

All metals were analyzed as total unless otherwise indicated.

Qualifiers:

U The analyte was analyzed for, but was not detected at, a level greater than or equal to the level of the adjusted reporting limit (RL) for the sample and method.

J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to the concentration of the analyte being below the RL).

J+ Same as J, and the reported concentration is potentially biased high.

J– Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Appendix D
Analytical Data Reporting Tables
Former J.B. Sims Generating Station
Renew Harbor Island

Sample Location:		MW-04	MW-04	MW-04	MW-04	MW-04	MW-04	MW-04	MW-04	MW-04	MW-04	MW-04	MW-04	MW-04	MW-04	MW-04	MW-04	MW-04	MW-04	MW-04	MW-04	MW-04
Compliance Phase:		Background	Background	Background	Background	Background	Background	Background	Background	Background	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment
Sample Date:		11/28/2022	1/4/2023	2/7/2023	3/14/2023	4/19/2023	5/23/2023	6/28/2023	8/7/2023	10/24/2023	2/14/2024	4/7/2024	7/18/2024	10/15/2024	2/26/2025	4/21/2025	8/11/2025	10/22/2025	2/19/2026	4/20/2026	8/13/2026
Sample Type:		Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
Unit:		Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B
Sample Matrix:		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Constituent	**Unit**																				
Field Parameters																					
Conductivity	mS/cm	0.237	2.47	2.56	2.044	2.81	2.82	2.81	2.74	2.52	2.55	2.78	2.79	2.44	2.39	2.33	2.6	2.671	1.48	1.86	2.13
Dissolved Oxygen	mg/L	0.15	0.1	0.07	0.79	0.15	0.06	0.05	0.16	0.14	0.3	0.06	0.05	0.07	0.09	0.16	0.25	0.19	0.31	0.16	0.27
Oxidation Reduction Potential	mV	-137.4	-113.2	-175.9	-126.6	43.2	-91.9	-113.3	-130.1	-133.3	-96.7	-170.1	-82.9	-143.4	-40.9	-123.3	-75.5	-123.3	-109.4	-116.1	-124.1
pH	su	7.34	7.39	7.23	7.45	7.35	7.66	7.43	7.34	7.26	7.4	7.43	7.25	7.26	7.22	7.39	7.24	6.78	7.06	7.36	7.03
Temperature	deg c	13.1	10.5	8.7	6.5	7.2	10.5	13.1	16.4	16.1	8	8.8	16.1	16.7	8.4	8.1	17.6	15.8	8.3	8.4	17.8
Turbidity	NTU	1.95	0.02	0.02	0.02	0.02	0.02	0.28	2.98	1.42	1.83	0.38	0.02	0.21	0.02	0.02	0.02	0.02	2.66	0.02	4.05
Appendix III																					
Boron	mg/L	4.0	3.9	3.8	3.8	3.5	4.3	4.1 J+	4.0	4.7 J	4.1	4.2	4.4	4.7 J-	3.7	3.7	4.0	2.6	0.68	1.8	2.5
Calcium	mg/L	310	360	350	390	340	400	410	330	360	350	430	380	340 J-	360	250	370	560	310	310	340
Chloride	mg/L	180	300	200	220	220	200	190	160	150	130	120	120	96	90	21	91	45	11	25	37
Fluoride	mg/L	1.2	0.76	1.3	1.4	1.3	1.3	1.2	1.4	1.9	1.4	1.3	1.4	1.5	1.1	2.3	1.6	1.4	2.1	1.6	1.6
Sulfate (as SO4)	mg/L	410	1.8 J	530	580	700	690	610	610	630	640	810	810	590	660	360	760	1100	480	530	460
Total Dissolved Solids	mg/L	1700	2100	1700	1800	1900	2100	2000	1900	1800	1800	2100	2100	1700	1800	1200	2100	2200	1100	1400	1500
Appendix IV																					
Antimony	mg/L	0.000071 J	< 0.000050 U	< 0.00025 U	< 0.000050 U	0.00041 J	< 0.00050 U	< 0.00050 U	0.00012 J+	< 0.0001 U	< 0.00050 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	0.00014 J	0.00046	< 0.00010 U	0.00042	< 0.00010 U	< 0.00010 U	< 0.00010 U
Arsenic	mg/L	0.0012	0.00078	0.0012	0.0012	0.00060	0.00047 J	0.00092 J+	0.00088	0.001	0.00058	0.0012	0.00086	0.00088	0.0028	0.0014	0.0010	0.0013	0.0059	0.00094	0.00096
Barium	mg/L	0.11	0.46	0.13	0.12	0.10	0.12	0.15	0.12	0.12	0.11	0.12	0.084	0.085	0.16	0.025	0.15 J+	0.12	0.091	0.11	0.11
Beryllium	mg/L	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 UJ	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	0.000066 J	0.000054 J	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	0.000093 J	< 0.00010 U	< 0.00010 U
Cadmium	mg/L	< 0.000032 U	< 0.000032 U	< 0.00016 U	< 0.000032 U	< 0.00016 U	< 0.00038 U	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	< 0.00038 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U
Chromium, Total	mg/L	0.0027	0.0060	0.0047	0.0049	0.0026	0.0031	0.0046	0.0044	0.0027	0.0026	0.0041	0.0047	0.0051	0.0028	0.0010	0.0038	0.0021	0.00074	0.0019	0.0019
Cobalt	mg/L	0.00035 J	0.00093	0.00062	0.00065	0.00031 J	0.00036 J	0.00074 J+	0.00062	0.00045 J	0.00018 J	0.00034 J	0.00024 J	0.00032 J	0.00035 J	0.00011 J	0.00030 J	0.0025	0.0018	0.00038 J	0.00022 J
Fluoride	mg/L	1.2	0.76	1.3	1.4	1.3	1.3	1.2	1.4	1.9	1.4	1.3	1.4	1.5	1.1	2.3	1.6	1.4	2.1	1.6	1.6
Lead	mg/L	< 0.00022 U	< 0.00022 U	< 0.0011 U	< 0.00022 U	< 0.0011 U	< 0.00050 U	< 0.00050 UJ	< 0.00010 U	< 0.0001 U	< 0.00050 U	< 0.00010 U	< 0.00050 U	< 0.00050 UJ	< 0.00010 U	0.00026 J	< 0.00050 U	0.00016 J	0.00042 J	0.00013 J	< 0.00010 U
Lithium	mg/L	0.067	0.047	0.061	0.074	0.054	0.061	0.074	0.074	0.066	0.048	0.062	0.068	0.074	0.031	0.055	0.060	0.055	0.033	0.038	0.047
Mercury	mg/L	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 UJ	< 0.00016 U	< 0.00016 U	< 0.00016 U	0.0000029	0.00000021 J	0.00000076	0.00000043 J	< 0.00000016 U	< 0.00000016 U
Molybdenum	mg/L	0.0013	< 0.00062 U	0.00074 J	0.00086 J	< 0.0031 U	0.00041 J	0.00044 J+	0.0012	0.0015	0.00037 J	0.00097 J	0.0014	0.0015	0.0023	0.011	0.0011 J	0.0099	0.013	0.0028	0.00083 J
Radium 226 and 228	pCi/L	1.43	1.08	1.55	1.23	< 0.752 U	1.49	1.2	1.29	1.2	< 0.868 U	1.11 J-	< 0.691 U	0.796	< 0.56 U	< 0.614 U	1.75	< 1.29 U	0.734	1.6	< 0.703 U
Radium-226	pCi/L	< 0.206 U	0.159	0.175	< 0.198 U	< 0.189 U	< 0.214 U	0.232	0.152 J-	0.275	< 0.155 U	0.176 J-	0.243	< 0.235 U	0.37	< 0.457 U	< 0.482 U	< 0.427 U	< 0.128 U	< 0.247 U	0.335
Radium-228	pCi/L	1.28	0.916	1.38	1.16	< 0.752 U	1.33 J	0.963	1.14	0.924	< 0.868 U	0.936 J-	< 0.691 U	0.693	< 0.56 U	< 0.614 U	1.3	< 1.29 U	< 0.674 U	1.41	< 0.703 U
Selenium	mg/L	< 0.00022 U	0.00041 J	< 0.00022 U	< 0.00022 U	< 0.00022 U	< 0.00010 U	0.00017 J+	0.00021 J+	0.00024 J	0.00043 J	0.00021 J	0.00023 J	0.00031 J	0.00019 J	0.0012	0.00019 J	0.00035 J	0.00016 J	0.00014 J	0.00015 J
Thallium	mg/L	< 0.000075 U	< 0.000075 U	< 0.00038 U	< 0.000075 U	< 0.00038 U	< 0.00038 U	< 0.00038 UJ	< 0.000075 U	< 0.000075 U	< 0.00038 U	< 0.000075 U	< 0.00038 U	< 0.00038 U	< 0.000075 U	< 0.000075 U	< 0.00038 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U
Total Suspended Solids	mg/L	10	8.0	11	10	11	12	8.1	< 4.0 UJ	8	< 4.0 U	15	5.0	4.0	8.0	< 4.0 U	9.0	8.2	14	19	11
Michigan CCR Part 115																					
Copper	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	0.00027	< 0.00020 U	0.00032	< 0.00020 U	< 0.00020 U	< 0.00020 U	0.00099	< 0.00020 U	0.0011	0.00079	0.00028	< 0.00020 U
Iron	mg/L	4.7	6.3	5.6	6.3	6.1	6.8	6.8	5.0	5.6	5.5	6.8	5.7	4.8	0.62	0.19	5.1	3.5	6.6	5.0	4.3
Nickel	mg/L	0.012	0.0019	0.018	0.019	0.011	0.013	0.022	0.019	0.013	0.010	0.016	0.018	0.019	0.012	0.0028	0.013	0.014	0.0084	0.0075	0.0042
Silver	mg/L	< 0.000050 U	< 0.000050 U	< 0.00025 U	< 0.000050 U	< 0.00025 U	< 0.00025 U	< 0.000050 U	< 0.000050 U	< 0.00005 U	< 0.00025 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U
Vanadium	mg/L	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	0.00097 J	0.0011 J	0.0012	0.00075 J	0.0011 J	0.00084 J	0.00071 J	0.00053 J	0.00063 J	0.00049 J
Zinc	mg/L	0.0044	< 0.0012 U	< 0.0012 U	< 0.0012 U	0.0059	< 0.0012 U	< 0.0012 U	< 0.0012 UJ	0.0015	< 0.0012 U	< 0.0012 U	< 0.0012 U	0.0051	< 0.0012 U	0.0025	0.0015	0.0051	0.013	0.013	0.011
Additional Parameters																					
Bicarbonate Alkalinity	mg/L	800	1800	720	690	720	740	730	750	780	680	700	710	740	760	91	800	620	410	590	730
Carbonate Alkalinity	mg/L	< 0.16 U	< 1.6 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.16 U
Magnesium	mg/L	96	200	110	120	120	140	130	120	120	120	140	130	110	120	36	120	78	35	67	78
Potassium	mg/L	21	20	20	18	21	24	26	23	24	21	23	24	23 J-	18	7.9	22	12	3.4	9.9	14
Sodium	mg/L	83	110	84	83	89	100	93	87	83	80	90	84	74	65	23	68	35	13	32	40
Total Alkalinity	mg/L	800	1800	720	690	720	740	730	750	780	680	700	710	740	760	91	800	620	410	590	730

Notes:

ug/l - micrograms per liter.

mg/l = milligrams per liter.

su - standard pH units (pH is a field parameter)

pCi/L = picocuries per liter.

All metals were analyzed as total unless otherwise indicated.

Qualifiers:

U The analyte was analyzed for, but was not detected at, a level greater than or equal to the level of the adjusted reporting limit (RL) for the sample and method.

J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to the concentration of the analyte being below the RL).

J+ Same as J, and the reported concentration is potentially biased high.

J– Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Appendix D
Analytical Data Reporting Tables
Former J.B. Sims Generating Station
Renew Harbor Island

Sample Location:		MW-04R	MW-04R	MW-04R	MW-04R
Compliance Phase:		Post Development Sample	Assessment	Assessment	Assessment
Sample Date:		12/22/2025	2/19/2026	4/20/2026	8/13/2026
Sample Type:		Field Sample	Field Sample	Field Sample	Field Sample
Unit:		Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B
Sample Matrix:		Groundwater	Groundwater	Groundwater	Groundwater
Constituent	**Unit**				
Field Parameters					
Conductivity	mS/cm	1.605	2.07	2.13	2.13
Dissolved Oxygen	mg/L	1.38	0.23	0.47	0.09
Oxidation Reduction Potential	mV	-78.5	-136	-101.7	-150.5
pH	su	7.19	7.26	7.31	7.16
Temperature	deg c	12	11.8	9.8	15.3
Turbidity	NTU	0.02	8.67	2.24	1.92
Appendix III					
Boron	mg/L	3.7	3.5	3.1	3.0
Calcium	mg/L	320	320	310	300
Chloride	mg/L	120	110	89	100
Fluoride	mg/L	1.4	1.3	1.3	1.3
Sulfate (as SO4)	mg/L	31	57	100	61
Total Dissolved Solids	mg/L	1300	1200	1300	1300
Appendix IV					
Antimony	mg/L	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U
Arsenic	mg/L	0.0019	0.0011	0.00058	0.0016
Barium	mg/L	0.23	0.25	0.23	0.19
Beryllium	mg/L	< 0.000052 U	< 0.000052 U	< 0.00010 U	< 0.00010 U
Cadmium	mg/L	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U
Chromium, Total	mg/L	0.0017	0.0012	0.0011	0.0012
Cobalt	mg/L	0.0011	0.00072	0.00056	0.00067
Fluoride	mg/L	1.4	1.3	1.3	1.3
Lead	mg/L	0.00013 J	0.00022 J	< 0.00010 U	< 0.00010 U
Lithium	mg/L	0.037	0.038	0.035	0.033
Mercury	mg/L	0.00000076	0.00000084	< 0.00000016 U	< 0.00000016 U
Molybdenum	mg/L	0.00063 J	0.00048 J	< 0.00032 U	0.00043 J
Radium 226 and 228	pCi/L	1.61	< 1.59 U	2.88	1.84
Radium-226	pCi/L	0.656	0.807	0.935	0.45
Radium-228	pCi/L	0.95	< 1.59 U	1.95	1.39
Selenium	mg/L	0.0013	0.00016 J	< 0.00010 U	0.00016 J
Thallium	mg/L	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U
Total Suspended Solids	mg/L	< 4.0 U	< 4.3 U	5.0	11
Michigan CCR Part 115					
Copper	mg/L	--	< 0.00020 U	< 0.00020 U	< 0.00020 U
Iron	mg/L	3.7	3.6	2.2	4.9
Nickel	mg/L	0.0036	0.0026	0.0029	0.0021
Silver	mg/L	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U
Vanadium	mg/L	0.00089 J	0.00054 J	0.00031 J	0.00041 J
Zinc	mg/L	0.020	0.022	0.020	0.017
Additional Parameters					
Bicarbonate Alkalinity	mg/L	--	1000	1100	1000
Carbonate Alkalinity	mg/L	--	< 0.16 U	< 0.31 U	< 0.16 U
Magnesium	mg/L	--	69	63	64
Potassium	mg/L	--	14	13	13
Sodium	mg/L	--	65	60	61
Total Alkalinity	mg/L	--	1000	1100	1000

Notes:

ug/l - micrograms per liter.
mg/l = milligrams per liter.
su - standard pH units (pH is a field parameter)
pCi/L = picocuries per liter.
All metals were analyzed as total unless otherwise indicated.

Qualifiers:

U The analyte was analyzed for, but was not detected at, a level greater than or equal to the level of the adjusted reporting limit (RL) for the sample and method.
J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to the concentration of the analyte being below the RL).
J+ Same as J, and the reported concentration is potentially biased high.
J– Same as J, and the reported concentration is potentially biased low.
UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.
R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Appendix D
Analytical Data Reporting Tables
Former J.B. Sims Generating Station
Renew Harbor Island

Sample Location:		MW-06	MW-06	MW-06	MW-06	MW-06	MW-06	MW-06	MW-06	MW-06	MW-06	MW-06	MW-06	MW-06	MW-06	MW-06	MW-06	MW-06	MW-06	MW-06	MW-06	MW-06
Compliance Phase:		Background	Background	Background	Background	Background	Background	Background	Background	Background	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment
Sample Date:		11/29/2022	1/3/2023	2/6/2023	3/14/2023	4/18/2023	5/23/2023	6/28/2023	8/8/2023	10/24/2023	2/13/2024	4/7/2024	7/18/2024	10/16/2024	2/26/2025	4/20/2025	8/14/2025	10/23/2025	2/17/2026	4/22/2026	8/12/2026
Sample Type:		Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
Unit:		Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2
Sample Matrix:		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Constituent	**Unit**																				
Field Parameters																					
Conductivity	mS/cm	1.78	2.13	2.16	1.973	2	2.05	2.04	2	2.02	1.63	1.92	1.91	1.9	1.93	1.88	2.07	2.195	1.91	1.92	1.83
Dissolved Oxygen	mg/L	0.1	0.6	0.07	0.14	0.35	0.08	0.24	0.38	0.24	0.15	0.07	0.01	0.05	0.28	0.13	0.12	0.16	0.3	0.14	0.07
Oxidation Reduction Potential	mV	38.1	-139	-193.2	-148.9	-173.5	-184.3	-182.7	-80.3	-176.8	145.9	-139.9	-234.1	-171.6	88.1	-193.1	70.2	-148.9	-154.7	-140	-196.9
pH	su	7.33	7.26	6.42	7.21	7.28	7.36	7.27	7.17	7.26	7.2	7.18	7.39	7.29	7.49	7.38	7.4	7.26	7.36	7.51	7.44
Temperature	deg c	13.9	10.9	7.6	8.1	8.4	11.2	13.4	16.8	16.6	8.8	9.5	16	17.5	8.2	9.4	16.6	16.4	9.7	9.9	18.2
Turbidity	NTU	0.02	1.13	2.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.07	1.4	8.36	0.54	1.93	1.27	0.02	2.03	2.74
Appendix III																					
Boron	mg/L	12	9.5	10	9.5	7.5	8.6	9.7 J+	9.9	11	7.3	6.4	8.3	11	9.8	6.9	11	12	9.7	8.8	9.8
Calcium	mg/L	220	230	250	310	250	270	290	230	240	280	310	250	220	200	210	230	210	210	200	190
Chloride	mg/L	160	120	110	82	57	73	71	76	79	18	13	31	57	59	29	57	80	35	25	24
Fluoride	mg/L	1.3	1.4	1.1	1.0	1.1	1.0	1.1	1.4	1.2	0.98	1.1	0.99	1.6	1.2	1.2	1.5	1.5	1.3	1.3	1.7
Sulfate (as SO4)	mg/L	16	9.6	20	7.3	9.4	20	16	0.98 J	< 0.41 U	1.5 J	9.2	< 2.2 U	2.9 J	30	15	5.1 J	11	3.3 J	100	94
Total Dissolved Solids	mg/L	1300	1200	1300	1200	1200	1200	1300	1200	1100	1100	1200	1200	1100	1200	1200	1200	1200	980	1200	1100
Appendix IV																					
Antimony	mg/L	0.000075 J	< 0.000050 U	< 0.00025 U	< 0.000050 U	0.00036 J	< 0.00050 U	< 0.00010 U	< 0.00010 U	< 0.0001 U	< 0.00050 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	0.00027	< 0.00010 U
Arsenic	mg/L	0.00080	0.00065	0.00058	0.00054 J	0.00047 J	0.00065	0.00062 J+	0.00082	0.001	0.00057	0.00068	0.00098	0.00082	0.00051 J	0.00051 J	0.00056	0.00099	0.00037 J	0.00081	0.00056
Barium	mg/L	1.5	1.5	1.6	1.4	0.99	1.3	1.4	1.4	1.5	1.4	1.3	1.7	1.6	1.3	1.4	1.5	1.4	1.4	1.4	0.87
Beryllium	mg/L	< 0.000054 U	< 0.000052 U	0.000052 J	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 UJ	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	0.000057 J	0.00029	< 0.00010 U
Cadmium	mg/L	< 0.000032 U	< 0.000032 U	< 0.00016 U	< 0.000032 U	< 0.00016 U	< 0.00038 U	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	< 0.00038 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U
Chromium, Total	mg/L	0.0015	0.0021	0.0021	0.0030	0.0014	0.0012	0.0020	0.0023	0.0015	0.0012	0.0011	0.0014	0.0013	0.0011	0.00095	0.0014	0.0016	0.0011	0.0011	0.0011
Cobalt	mg/L	0.00048 J	0.00057	0.00067	0.00073	0.00050 J	0.00046 J	0.00080 J+	0.00067	0.00047 J	0.00035 J	0.00042 J	0.00037 J	0.00042 J	0.00039 J	0.00033 J	0.00045 J	0.00043 J	0.00036 J	0.0034	0.00030 J
Fluoride	mg/L	1.3	1.4	1.1	1.0	1.1	1.0	1.1	1.4	1.2	0.98	1.1	0.99	1.6	1.2	1.2	1.5	1.5	1.3	1.3	1.7
Lead	mg/L	0.00035 J	0.00025 J	< 0.0011 U	< 0.00022 U	< 0.0011 U	< 0.00050 U	0.00027 J+	< 0.00010 U	< 0.0001 U	< 0.00050 U	< 0.00010 U	< 0.00010 U	0.00012 J	0.00018 J	< 0.00010 U	0.00023 J	0.00018 J	0.00011 J	0.00035 J	0.00021 J
Lithium	mg/L	0.23	0.22	0.20	0.23	0.15	0.15	0.19	0.22	0.19	0.13	0.11	0.14	0.17	0.17	0.12	0.19	0.18	0.16	0.14	0.15
Mercury	mg/L	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	0.00000070	0.00000053	0.00000087	0.00000049 J	0.00000089	< 0.00000016 U
Molybdenum	mg/L	< 0.00064 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.0031 U	0.00026 J	0.00027 J+	< 0.00025 U	0.00025 J	< 0.00025 U	< 0.00025 U	0.00028 J	0.00043 J	0.00056 J	< 0.00025 U	< 0.00025 U	0.00030 J	0.00025 J	0.0051	0.00045 J
Radium 226 and 228	pCi/L	0.864	0.637	< 0.715 U	1.91	< 0.646 U	0.92	0.824	0.938	1.58	0.965	2.23	< 0.619 U	2.87	1.02	2.13	1.47	2.31	1.28	< 1 U	1.48
Radium-226	pCi/L	0.419	0.238	0.24	< 0.212 U	0.402	0.259	0.331	0.465	0.432	0.358	0.383	0.288	0.36	< 0.28 U	< 0.326 U	< 0.412 U	< 0.434 U	0.196	< 0.143 U	0.441
Radium-228	pCi/L	< 0.449 U	< 0.631 U	< 0.715 U	1.7	< 0.646 U	< 0.772 U	< 0.606 U	< 0.735 U	1.15	< 0.85 U	1.85	< 0.619 U	2.51	0.77	1.8	1.09	1.91	1.09	< 1 U	1.04
Selenium	mg/L	< 0.00022 U	< 0.00022 U	< 0.00022 U	< 0.00022 U	< 0.00022 U	0.00020 J	0.00022 J+	0.00019 J	0.0002 J	0.00047 J	0.00023 J	0.00020 J	0.00029 J	0.00022 J	0.00016 J	0.00022 J	0.00023 J	0.00021 J	0.00040 J	0.00016 J
Thallium	mg/L	< 0.000076 U	< 0.000075 U	< 0.00038 U	< 0.000075 U	< 0.00038 U	< 0.00038 U	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	< 0.00038 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	0.00017 J	< 0.000075 U
Total Suspended Solids	mg/L	36	45	42	65	53	43	41	37	48	73	54	27	34	12	42	13	8.2	31	19	1.6 J
Michigan CCR Part 115																					
Copper	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.0002 U	0.00028	< 0.00020 U	0.00038	0.00025	< 0.00020 U	< 0.00020 U	0.00029	< 0.00020 U	0.00035	0.0033	0.00042
Iron	mg/L	15	17	16	26	19	18	18	14	19	31	26	17	12	4.6	14	6.2	7.5	11	9.7	1.9
Nickel	mg/L	0.0011 J	0.0011 J	0.0012	0.00092 J	< 0.00065 U	< 0.00065 U	0.0010 J	0.00090 J	0.00079 J	< 0.00065 U	< 0.00065 U	< 0.00065 U	0.00095 J	0.00091 J	< 0.00065 U	0.00083 J	0.0011 J	0.00075 J	0.0038	0.00063 J
Silver	mg/L	< 0.000051 U	< 0.000050 U	< 0.00025 U	< 0.000050 U	< 0.00025 U	< 0.00025 U	< 0.000050 U	< 0.000050 U	< 0.00005 U	< 0.00025 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	0.00016	< 0.000050 U
Vanadium	mg/L	< 0.00064 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	0.00064 J	< 0.00062 U	< 0.00062 U	< 0.00062 U	0.00070 J	0.00054 J	0.00046 J	0.0039	0.00046 J
Zinc	mg/L	0.060	0.0019	0.0018	0.0012	0.094	< 0.0012 U	0.0018	0.0013	0.0018	< 0.0012 U	0.0012	0.0013	0.058	0.0014	0.0017	0.081	0.0020	0.083	0.080	0.056
Additional Parameters																					
Bicarbonate Alkalinity	mg/L	1100	1100	1000	1100	1100	990	1100	1100	1000	980	1100	1100	1000	1100	1100	1100	1100	1100	980	940
Carbonate Alkalinity	mg/L	< 1.6 U	< 1.6 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.31 U	< 0.16 U	< 0.31 U	< 0.31 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.16 U
Magnesium	mg/L	110	95	100	96	90	100	100	90	89	81	78	81	97	110	80	90	100	100	110	100
Potassium	mg/L	32	24	23	20	20	23	26	24	26	20	18	22	25	25	19	26	26	23	21	23
Sodium	mg/L	110	78	84	69	63	82	87	77	71	49	49	64	88	100	73	85	88	78	75	75
Total Alkalinity	mg/L	1100	1100	1000	1100	1100	990	1100	1100	1000	980	1100	1100	1000	1100	1100	1100	1100	1100	980	940

Notes:

ug/l - micrograms per liter.

mg/l = milligrams per liter.

su - standard pH units (pH is a field parameter)

pCi/L = picocuries per liter.

All metals were analyzed as total unless otherwise indicated.

Qualifiers:

U The analyte was analyzed for, but was not detected at, a level greater than or equal to the level of the adjusted reporting limit (RL) for the sample and method.

J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to the concentration of the analyte being below the RL).

J+ Same as J, and the reported concentration is potentially biased high.

J– Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Appendix D
Analytical Data Reporting Tables
Former J.B. Sims Generating Station
Renew Harbor Island

Sample Location:		MW-07	MW-07	MW-07	MW-07	MW-07	MW-07	MW-07	MW-07	MW-07	MW-07	MW-07	MW-07	MW-07	MW-07	MW-07	MW-07	MW-07	MW-07	MW-07	MW-07
Compliance Phase:		Background	Background	Background	Background	Background	Background	Background	Background	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment
Sample Date:		11/30/2022	1/4/2023	2/7/2023	3/13/2023	4/18/2023	5/23/2023	6/27/2023	8/7/2023	10/24/2023	2/13/2024	4/8/2024	7/17/2024	10/15/2024	2/26/2025	4/21/2025	8/13/2025	10/22/2025	2/19/2026	4/21/2026	8/11/2026
Sample Type:		Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
Unit:		Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2
Sample Matrix:		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Constituent	**Unit**																				
Field Parameters																					
Conductivity	mS/cm	0.46	1.21	1.206	1.209	1.25	1.24	1.25	1.25	1.23	1.25	1.27	1.29	1.24	1.25	0.899	1.104	1.083	1.44	1.4	1.36
Dissolved Oxygen	mg/L	0.12	0.3	0.08	0.21	0.03	0.23	0.43	0.72	0.22	0.2	0.26	0.04	0.36	0.01	0.33	0.35	0.12	0.11	0.21	0.15
Oxidation Reduction Potential	mV	57.2	-88	-103.1	-143.9	-68	-109.4	-140.5	-15.7	-141	-74.7	-60.1	-176.7	-134.1	-34.2	-56.9	-128.8	-119.2	-78.8	-105	-149.9
pH	su	6.88	7.04	6.93	6.58	6.86	6.93	6.88	6.65	6.88	7.02	7.05	6.95	6.87	6.84	6.87	6.91	6.91	6.81	6.91	6.79
Temperature	deg c	12.2	11	10	8.6	9.6	11.3	13	14.8	14.6	9.7	10.2	14.8	15	9.9	9.9	14.6	14.2	10.3	10.7	15.2
Turbidity	NTU	5.89	4.2	4.07	0.02	2.94	1.5	0.02	0.72	0.74	9.13	0.74	0.02	0.02	3.07	8.68	0.02	5.47	0.02	2.24	0.02
Appendix III																					
Boron	mg/L	13	11	12	11	10	12	11 J+	11	12	11	13	10	11	11	8.8	10	12	12	6.9	7.7
Calcium	mg/L	140	140	140	150	130	150	160	120	150	140	160	150	130	160	150	160	160	170	150	150
Chloride	mg/L	15	15	14	14	14	13	13	13	14	14	14	14	15	16	17	17	16	17	15	16
Fluoride	mg/L	0.14	0.070 J	0.12	< 0.055 U	0.14	0.11	0.080 J	0.083 J	0.14	0.068 J	0.080 J	0.19 J	< 0.055 U	< 0.11 U	0.14	< 0.11 U	0.22	0.15 J	0.15 J	0.14 J
Sulfate (as SO4)	mg/L	29	30	33	20	17	15	18	19	26	32	36	15	34	37	20	28	33	48	16	15
Total Dissolved Solids	mg/L	660	470	650	500	620	660	720	620	620	680	710	720	680	710	720	740	670	720	740	750
Appendix IV																					
Antimony	mg/L	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	0.000071 J	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.0001 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U
Arsenic	mg/L	0.00023 J	0.00021 J	0.00023 J	0.00018 J	0.00013 J	0.00023 J	0.00020 J+	0.00020 J	0.00029 J	0.00021 J	0.00024 J	0.00023 J	0.00022 J	0.00018 J	0.00020 J	0.00016 J	0.00019 J	0.00010 J	0.00015 J	0.00019 J
Barium	mg/L	0.33	0.34	0.36	0.30	0.25	0.34	0.35	0.34	0.38	0.35	0.34	0.36	0.37	0.42	0.40	0.38	0.43	0.42	0.34	0.36
Beryllium	mg/L	< 0.000052 U	< 0.000052 U	0.000062 J	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 UJ	0.000066 J	0.000055 J	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	0.000055 J	0.00012 J	< 0.00010 U	< 0.00010 U
Cadmium	mg/L	< 0.000032 U	< 0.000032 U	< 0.000032 U	< 0.000032 U	< 0.000032 U	< 0.000075 U	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U
Chromium, Total	mg/L	0.00038	0.00030	0.00037	0.00042	0.00028	0.00029	0.00033	0.00032	0.00036	0.00032	0.00034	0.00074	0.00041	0.00028	0.00041	0.00031	0.00034	0.00029	0.00025	0.00043
Cobalt	mg/L	0.00071	0.00088	0.00099	0.00099	0.00087	0.00095	0.0011 J+	0.00098	0.00098	0.00074	0.00083	0.00080	0.0010	0.00086	0.0011	0.00097	0.00097	0.0010	0.0012	0.0013
Fluoride	mg/L	0.14	0.070 J	0.12	< 0.055 U	0.14	0.11	0.080 J	0.083 J	0.14	0.068 J	0.080 J	0.19 J	< 0.055 U	< 0.11 U	0.14	< 0.11 U	0.22	0.15 J	0.15 J	0.14 J
Lead	mg/L	< 0.00022 U	< 0.00022 U	< 0.00022 U	< 0.00022 U	< 0.00022 U	< 0.00010 U	< 0.00010 UJ	< 0.00010 U	< 0.0001 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U
Lithium	mg/L	0.0054	0.0070	0.0052	0.0067	0.0083	0.0055	0.010	0.0042	0.0062	0.0031	0.0057	0.0057	0.0056	0.0054	0.0069	0.0066	0.0053	0.0070	0.0085	0.0089
Mercury	mg/L	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00000016 U	0.00000024 J	< 0.00000016 U	< 0.00000016 U	< 0.00000016 U	< 0.00000016 U
Molybdenum	mg/L	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00025 U	< 0.00025 UJ	< 0.00025 U	< 0.00025 U	< 0.00025 U	< 0.00025 U	< 0.00025 U	< 0.00025 U	< 0.00025 U	< 0.00025 U	< 0.00025 U	< 0.00025 U	< 0.00025 U	< 0.00032 U	< 0.00032 U
Radium 226 and 228	pCi/L	1.12	1.26 J+	1.03	1.12	0.674	< 0.928 U	< 0.697 U	2.36	1.76	0.937	2.75	1.46	1.29	1.44	1.38	1.49	1.44	1.78	2.1	1.33
Radium-226	pCi/L	0.444	0.53	0.333	0.38	0.475	0.309	0.341	0.665	0.475	0.495	0.508	0.551	0.333	0.53	0.681	0.61	0.405	0.484	0.634	0.516
Radium-228	pCi/L	0.676	0.729 J+	0.693	< 0.835 U	< 0.559 U	< 0.928 U	< 0.697 U	1.7	1.28	< 0.789 U	2.25	< 0.965 U	0.959	0.91	< 0.778 U	< 1.05 U	1.03	1.3	1.47	0.813
Selenium	mg/L	< 0.00022 U	< 0.00022 U	< 0.00022 U	< 0.00022 U	< 0.00022 U	0.00010 J	< 0.00010 UJ	< 0.00010 U	< 0.0001 U	0.00023 J	< 0.00010 U	0.00011 J	0.00017 J	0.00013 J	0.00011 J	0.00012 J	0.00012 J	0.00013 J	0.00011 J	0.00010 J
Thallium	mg/L	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U
Total Suspended Solids	mg/L	44	36	35	33	33	39	39	41	38	29	32	46	43	44	57	47	39	44	55	59
Michigan CCR Part 115																					
Copper	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	0.00027	< 0.00020 U	0.00024 J	0.00021 J	< 0.00020 U	0.00062	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	0.00025	< 0.00020 U
Iron	mg/L	16	13	13	15	14	19	17	14	18	15	15	17	17	19	21	19	16	19	21	22
Nickel	mg/L	< 0.00065 U	< 0.00065 U	< 0.00065 U	< 0.00065 U	< 0.00065 U	< 0.00065 U	< 0.00065 U	< 0.00065 U	< 0.00065 U	< 0.00065 U	< 0.00065 U	< 0.00065 U	0.00071 J	< 0.00065 U	< 0.00065 U	0.00016 J	0.00024 J	0.00020 J	0.00017 J	0.00024 J
Silver	mg/L	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.00005 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U
Vanadium	mg/L	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	0.00079 J	0.00095 J	< 0.00062 U	0.00077 J	0.00075 J	0.00084 J	0.00059 J	0.00060 J	0.00084 J
Zinc	mg/L	0.016	< 0.0012 U	< 0.0012 U	< 0.0012 U	0.025	< 0.0012 U	< 0.0012 U	< 0.0012 U	0.0035	< 0.0012 U	< 0.0012 U	< 0.0012 U	0.016	0.0013	< 0.0012 U	0.022	0.00075 J	0.033	0.027	0.0067
Additional Parameters																					
Bicarbonate Alkalinity	mg/L	660	580	630	610	640	630	620	620	600	610	630	640	620	650	680	670	630	640	710	690
Carbonate Alkalinity	mg/L	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.31 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.16 U
Magnesium	mg/L	37	37	37	38	38	40	36	35	38	38	40	36	35	39	39	37	39	42	36	37
Potassium	mg/L	5.4	5.4	5.2	5.7	4.8	4.4	4.7	5.1	4.9	4.7	4.7	4.5	4.1	4.5	4.6	4.5	4.5	4.9	4.4	4.6
Sodium	mg/L	53	47	47	47	59	57	56	48	51	52	57	55	47	44	44	44	46	45	56	49
Total Alkalinity	mg/L	660	580	630	610	640	630	620	620	600	610	630	640	620	650	680	670	630	640	710	690

Notes:

ug/l - micrograms per liter.

mg/l = milligrams per liter.

su - standard pH units (pH is a field parameter)

pCi/L = picocuries per liter.

All metals were analyzed as total unless otherwise indicated.

Qualifiers:

U The analyte was analyzed for, but was not detected at, a level greater than or equal to the level of the adjusted reporting limit (RL) for the sample and method.

J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to the concentration of the analyte being below the RL).

J+ Same as J, and the reported concentration is potentially biased high.

J– Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Appendix D
Analytical Data Reporting Tables
Former J.B. Sims Generating Station
Renew Harbor Island

Sample Location:		MW-08	MW-08	MW-08	MW-08	MW-08	MW-08	MW-08	MW-08	MW-08	MW-08	MW-08	MW-08	MW-08	MW-08	MW-08	MW-08	MW-08	MW-08	MW-08	MW-08
Compliance Phase:		Background	Background	Background	Background	Background	Background	Background	Background	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment
Sample Date:		12/1/2022	1/5/2023	2/7/2023	3/14/2023	4/18/2023	5/23/2023	6/27/2023	8/8/2023	10/24/2023	2/13/2024	4/7/2024	7/18/2024	10/16/2024	2/26/2025	4/20/2025	8/14/2025	10/22/2025	2/18/2026	4/21/2026	8/12/2026
Sample Type:		Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
Unit:		Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2
Sample Matrix:		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Constituent	**Unit**																				
Field Parameters																					
Conductivity	mS/cm	1.06	1.13	1.133	0.787	1.03	0.99	1.03	1.02	0.87	0.89	0.9	0.99	1.11	1.01	0.91	1.185	1.179	0.87	0.673	1.26
Dissolved Oxygen	mg/L	0.2	0.09	0.05	0.55	0.06	0.09	0.04	0.09	1.53	0.3	0.1	0.05	0.17	0.01	0.14	0.12	0.14	0.12	0.11	0.11
Oxidation Reduction Potential	mV	-159.3	-119.3	-133.9	-149.9	-121.2	-145.3	-103.6	-127.6	-180.6	-141.1	-164.6	-133.3	-138.6	-35.9	-125.6	-131.5	-135.5	-134.6	-197.6	-150.5
pH	su	7.17	6.21	7.16	7.51	7.25	7.33	7.24	7.26	7.27	7.34	7.41	7	7.15	7.23	7.28	7.13	7.1	7.57	7.26	6.96
Temperature	deg c	9.6	6.9	6.2	5.2	7.3	11.6	14	16.7	14.7	6.2	7.4	15.8	16.2	5	8.3	16.1	15.2	5.9	10.2	18.5
Turbidity	NTU	0.02	0.02	0.66	0.02	1.04	0.02	2.11	5.63	0.02	2.79	1.03	0.02	0.02	0.51	0.02	1.05	0.02	4.65	2.06	2.6
Appendix III																					
Boron	mg/L	2.5	4.4	9.3	7.1	6.6	7.0	7.8 J+	7.1	4.1	7.0	6.5	7.9	4.7	4.1	3.8	7.2	8.2	5.7	4.6	6.3
Calcium	mg/L	150	160	150	150	130	140	150	120	130	120	130	120	130	140	120	160	130	96	85	140
Chloride	mg/L	17	23	35	30	28	25	29	30	17	25	24	30	99	39	36	110	77	32	18	160
Fluoride	mg/L	0.40	0.56	1.1	1.3	1.1	0.92	1.0	1.0	0.55	1.0	1.2	1.1	0.93	0.61	0.90	0.94	1.1	1.4	1.1	1.3
Sulfate (as SO4)	mg/L	13	25	5.3	26	2.0 J	< 0.41 U	< 0.41 U	< 0.41 U	1.7 J	5.6	7.0	< 2.2 U	21	48	65	32	0.60 J	< 0.58 U	34	13
Total Dissolved Solids	mg/L	560	480	630	480	560	550	610	530	440	530	510	550	660	590	520	780	650	320	400	780
Appendix IV																					
Antimony	mg/L	0.000095 J	0.000054 J	0.00020 J	0.00016 J	0.00028	< 0.00010 U	0.00011 J	< 0.00010 U	< 0.0001 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	0.00011 J	0.00016 J	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U
Arsenic	mg/L	0.0069	0.021	0.049	0.045	0.050	0.041	0.038 J+	0.029	0.011	0.030	0.047	0.044	0.030	0.033	0.046	0.049	0.057	0.091	0.057	0.057
Barium	mg/L	1.2	1.3	1.5	1.4	1.1	1.2	1.4	1.2	0.98	1.0	1.1	1.3	1.3	0.94	0.75	1.4	1.5	1.4	0.58	1.5
Beryllium	mg/L	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 UJ	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	0.00012 J	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.00010 U	< 0.00010 U
Cadmium	mg/L	< 0.000032 U	< 0.000032 U	< 0.000032 U	< 0.000032 U	< 0.000032 U	< 0.000075 U	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	0.00011 J	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U
Chromium, Total	mg/L	0.00067	0.00093	0.0015	0.0011	0.00084	0.0011	0.00094	0.00087	0.00061	0.00070	0.00075	0.00071	0.00063	0.00065	0.00059	0.00043	0.00047	0.00042	0.00056	0.00050
Cobalt	mg/L	0.00034 J	0.00045 J	0.00070	0.00060	0.00051 J	0.00059	0.00062 J+	0.00058	0.00034 J	0.00034 J	0.00037 J	0.00037 J	0.00034 J	0.00098	0.00026 J	0.00076	0.00060	0.00034 J	0.00022 J	0.00033 J
Fluoride	mg/L	0.40	0.56	1.1	1.3	1.1	0.92	1.0	1.0	0.55	1.0	1.2	1.1	0.93	0.61	0.90	0.94	1.1	1.4	1.1	1.3
Lead	mg/L	< 0.00022 U	< 0.00022 U	0.00086	< 0.00022 U	0.00022 J	< 0.00010 U	< 0.00010 UJ	< 0.00010 U	< 0.0001 U	0.00011 J	< 0.00010 U	< 0.00010 U	0.0029	0.00022 J	0.00010 J+	< 0.00010 U	< 0.00010 U	< 0.00010 U	0.00058	0.00026 J
Lithium	mg/L	0.063	0.11	0.14	0.14	0.11	0.11	0.13	0.12	0.076	0.097	0.098	0.11	0.082	0.075	0.070	0.069	0.088	0.083	0.066	0.087
Mercury	mg/L	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 UJ	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00000016 U	0.00000065	< 0.00000016 U	< 0.00000016 U	0.0000012 J-	< 0.00000016 U
Molybdenum	mg/L	0.0024	0.0018	0.0015	0.0028	0.00095 J	0.00068 J	0.00039 J+	0.00036 J	0.0016	0.0017	0.0020	0.00031 J	0.00095 J	0.0020	0.0029	< 0.00025 U	0.00065 J	0.0041	0.0027	< 0.00032 U
Radium 226 and 228	pCi/L	1.43	1.62 J+	< 0.836 U	1.13	1.18	1.14	< 0.606 U	2.1	0.891	< 0.848 U	1.86 J-	0.879	2.11	0.98	1.35	1.61	< 0.707 U	< 0.817 U	2.42	0.481
Radium-226	pCi/L	0.277	0.31	0.286	< 0.255 U	0.32	0.396	0.19	0.358	< 0.234 U	< 0.126 U	0.177 J-	0.232	0.367	0.32	0.263	0.521	0.285	< 0.126 U	0.3 J-	0.345
Radium-228	pCi/L	1.16	1.31 J+	< 0.836 U	< 1 U	0.858	< 0.835 U	< 0.606 U	1.74	< 0.744 U	< 0.848 U	1.68 J+	0.646	1.75	0.66	1.08	1.09	< 0.707 U	< 0.817 U	2.12	< 0.375 U
Selenium	mg/L	< 0.00022 U	< 0.00022 U	< 0.00022 U	< 0.00022 U	< 0.00022 U	0.00016 J	0.00014 J+	0.00014 J	0.00015 J	0.00034 J	0.00012 J	0.00012 J	0.00018 J	0.00030 J	0.00014 J	< 0.00010 U	0.00011 J	0.00012 J	< 0.00010 U	0.00010 J
Thallium	mg/L	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	0.00013 J	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U
Total Suspended Solids	mg/L	62	55	49	42	36	31	30	20	43	46	36	18	31	44	45	18	11	9.1	8.0 J+	17
Michigan CCR Part 115																					
Copper	mg/L	< 0.00020 U	< 0.00020 U	0.00043	< 0.00020 U	0.00045	0.00034	< 0.00020 U	< 0.00020 U	0.00021 J	0.00035	0.00025	0.00047	0.00064	0.00080	0.00028 J+	0.00029	< 0.00020 U	0.00042	0.00037	0.00036
Iron	mg/L	32	30	21	22	18	18	15	13	22	22	19	14	15	21	19	10	9.5	6.6	7.5	6.8
Nickel	mg/L	0.00093 J	0.0013	0.0015	0.0013	0.0011 J	0.0011 J	0.0011 J	0.0010 J	0.00085 J	0.0026	0.0032	0.0013	0.013	0.0052	0.0030	0.0047	0.0036	0.0016	0.0044 J+	0.0021
Silver	mg/L	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.00005 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U
Vanadium	mg/L	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	0.00091 J	< 0.00062 U	0.00029 J	0.00030 J	< 0.00028 U	< 0.00028 U	< 0.00028 U
Zinc	mg/L	0.054	< 0.0012 U	0.0040	0.0013	0.12	0.0014	0.0018	< 0.0012 U	0.0025	< 0.0012 U	0.0017	0.0015	0.16	0.0037	0.0016	0.083	0.0016	0.10	0.046	0.10
Additional Parameters																					
Bicarbonate Alkalinity	mg/L	540	510	560	470	510	490	480	480	460	440	440	460	410	400	350	550	480	370	300	380
Carbonate Alkalinity	mg/L	< 1.6 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.31 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.16 U
Magnesium	mg/L	27	30	33	27	29	28	26	26	22	23	24	25	24	22	20	28	27	23	16	29
Potassium	mg/L	8.8	12	14	7.6 J	12	11	12	12	8.6	8.6	9.0	11	9.1	7.7	7.4	10	11	9.0	6.7	10
Sodium	mg/L	21	27	38	33	35	35	40	36	23	32	32	36	41	30	29	80	61	34	23	57
Total Alkalinity	mg/L	540	510	560	470	510	490	480	480	460	440	440	460	410	400	350	550	480	370	300	380

Notes:

ug/l - micrograms per liter.

mg/l = milligrams per liter.

su - standard pH units (pH is a field parameter)

pCi/L = picocuries per liter.

All metals were analyzed as total unless otherwise indicated.

Qualifiers:

U The analyte was analyzed for, but was not detected at, a level greater than or equal to the level of the adjusted reporting limit (RL) for the sample and method.

J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to the concentration of the analyte being below the RL).

J+ Same as J, and the reported concentration is potentially biased high.

J– Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Appendix D
Analytical Data Reporting Tables
Former J.B. Sims Generating Station
Renew Harbor Island

Sample Location:		MW-09	MW-09	MW-09	MW-09	MW-09	MW-09	MW-09	MW-09	MW-09	MW-09	MW-09	MW-09	MW-09	MW-09	MW-09	MW-09	MW-09	MW-09	MW-09	MW-09
Compliance Phase:		Background	Background	Background	Background	Background	Background	Background	Background	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment
Sample Date:		11/28/2022	1/4/2023	2/6/2023	3/14/2023	4/18/2023	5/23/2023	6/27/2023	8/8/2023	10/24/2023	2/13/2024	4/7/2024	7/17/2024	10/17/2024	2/25/2025	4/19/2025	8/13/2025	10/20/2025	2/17/2026	4/22/2026	8/10/2026
Sample Type:		Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
Unit:		Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2
Sample Matrix:		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Constituent	**Unit**																				
Field Parameters																					
Conductivity	mS/cm	1.33	1.49	1.593	1.472	2.02	1.95	1.95	1.92	1.63	2.03	2.2	2.16	1.82	2.36	1.618	2.024	2.311	2.49	2.92	2.8
Dissolved Oxygen	mg/L	0.19	0.2	1.89	0.35	0.08	0.07	0.05	0.17	0.07	0.34	0.27	0.01	0.17	3.08	1.66	0.14	0.23	0.19	0.11	0.18
Oxidation Reduction Potential	mV	42	-183.9	-138.4	-131.5	-112.3	-107.1	-117	-114.7	-69.3	-106.1	-160.4	-155.1	-137.5	58.3	-72.1	-138.9	-109.9	-53.3	-78.6	-165
pH	su	7.2	7.22	7.22	7.4	7.22	7.52	7.28	7.21	7.16	7.14	7.25	7.2	7.12	7	7.12	7.15	6.88	6.93	7.08	6.92
Temperature	deg c	12.7	10.5	8.5	6.8	7.7	10.6	12.1	15	15.7	7.7	8.8	15.2	16.3	9.1	8.7	15.8	15.8	9.3	9.5	16.3
Turbidity	NTU	0.02	0.02	1.04	0.02	0.55	0.66	0.71	2.01	0.49	1.89	2.01	4.56	0.02	0.73	1.94	1.41	5.82	1.84	1.09	1.09
Appendix III																					
Boron	mg/L	6.0	5.8	6.1	5.1	4.9	5.9	6.3 J+	5.7	6.9	5.3	5.5	5.9	6.2	5.1	4.9	5.5	6.2	4.9	2.3	3.2
Calcium	mg/L	270	230	300	400	390	410	430	330	310	420	500	430	310	510	450	500	500	510	530	500
Chloride	mg/L	15	17	18	16	12	11	11	12	12	18	25	25	25	67	57	41	41	53	93	94
Fluoride	mg/L	2.1	2.4	2.6	2.5	2.5	2.7	2.9	2.9	2.8	2.2	2.3	2.6	2.9	2.4	2.4	2.7	2.1	2.6	1.6	1.8
Sulfate (as SO4)	mg/L	110	83	210	480	650	580	500	450	210	610	720	630	270	790	930	810	680	970	1300	1100
Total Dissolved Solids	mg/L	960	740	1100	1400	1600	1600	1500	1400	1100	1600	1700	1700	1300	1900	2000	1900	1800	2100	2400	2500
Appendix IV																					
Antimony	mg/L	0.000073 J	< 0.000050 U	0.00023 J	0.000092 J	0.00037 J	< 0.00050 U	< 0.00010 U	< 0.00010 U	< 0.0001 U	< 0.00050 U	< 0.00010 U	0.00012 J	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	0.00016 J	0.00020 J	0.00011 J
Arsenic	mg/L	0.0025	0.0023	0.0023	0.0023	0.0013	0.0013	0.0027 J+	0.0024	0.0023	0.0015	0.0030	0.0025	0.0025	0.0015	0.0016	0.0022	0.0025	0.00082	0.0033	0.0017
Barium	mg/L	0.59	2.4	0.36	0.38	0.18	0.20	0.17	0.20	0.28	0.31	0.20	0.20	0.23	0.097	0.10	0.12	0.14	0.061	0.046	0.074
Beryllium	mg/L	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	0.000058 J	< 0.000052 UJ	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	0.000057 J	< 0.000052 U	0.00015 J	< 0.000052 U	< 0.000052 U	0.000085 J	0.000064 J	< 0.00010 U	< 0.00010 U
Cadmium	mg/L	< 0.000032 U	< 0.000032 U	< 0.000032 U	< 0.000032 U	< 0.00016 U	< 0.00038 U	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	< 0.00038 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	0.00068	< 0.000075 U	< 0.000075 U
Chromium, Total	mg/L	0.0022	0.0028	0.0032	0.0030	0.0018	0.0019	0.0031	0.0027	0.0018	0.0016	0.0026	0.0021	0.0027	0.0020	0.0024	0.0021	0.0024	0.0011	0.0016	0.0026
Cobalt	mg/L	0.00035 J	0.00046 J	0.00058	0.00099	0.00053	0.00037 J	0.00069 J+	0.00075	0.00024 J	0.00058	0.00076	0.00024 J	0.00023 J	0.00043 J	0.00053	0.00024 J	0.00037 J	0.00061	0.0064	0.00032 J
Fluoride	mg/L	2.1	2.4	2.6	2.5	2.5	2.7	2.9	2.9	2.8	2.2	2.3	2.6	2.9	2.4	2.4	2.7	2.1	2.6	1.6	1.8
Lead	mg/L	< 0.00022 U	< 0.00022 U	< 0.0011 U	< 0.00022 U	< 0.0011 U	< 0.00050 U	< 0.00010 UJ	< 0.00010 U	< 0.0001 U	< 0.00050 U	< 0.00010 U	< 0.00050 U	< 0.00010 U	< 0.00050 U	< 0.00010 U	< 0.00010 U	< 0.00050 U	0.00014 J	0.00034 J	0.00041 J
Lithium	mg/L	0.29	0.34	0.33	0.31	0.26	0.29	0.34	0.33	0.29	0.26	0.29	0.30	0.27	0.33	0.31	0.31	0.29	0.35	0.54	0.45
Mercury	mg/L	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	0.0024	< 0.00016 U	0.0021	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00000016 U	0.00000032 J	< 0.00000016 U	0.00000029 J	0.0000040	0.00000061
Molybdenum	mg/L	0.028	0.033	0.029	0.021	0.020	0.012	0.019 J+	0.019	0.021	0.0097	0.021	0.016	0.028	0.023	0.025	0.028	0.023	0.033	0.023	0.015
Radium 226 and 228	pCi/L	0.789	< 0.678 U	< 0.642 UJ	< 0.796 U	< 0.688 U	< 0.912 U	< 0.742 U	< 0.821 U	< 0.688 U	< 0.98 U	< 0.743 U	< 0.771 U	< 0.851 U	< 0.45 U	< 0.778 U	< 0.782 U	20.3	< 1.12 U	< 0.464 U	< 0.495 U
Radium-226	pCi/L	< 0.16 U	< 0.0959 U	< 0.125 UJ	< 0.223 U	< 0.184 U	< 0.22 U	< 0.186 U	< 0.163 U	< 0.237 U	< 0.12 U	< 0.17 U	< 0.135 U	< 0.185 U	< 0.24 U	< 0.218 U	< 0.383 U	0.504	< 0.132 U	< 0.305 U	< 0.248 U
Radium-228	pCi/L	0.69	< 0.678 U	< 0.642 UJ	< 0.796 U	< 0.688 U	< 0.912 U	< 0.742 U	< 0.821 U	< 0.688 U	< 0.98 U	< 0.743 U	< 0.771 U	< 0.851 U	< 0.45 U	< 0.778 U	< 0.782 U	19.8	< 1.12 U	< 0.464 U	< 0.495 U
Selenium	mg/L	0.00026 J	< 0.00022 U	0.00028 J	0.00024 J	< 0.00022 U	0.00012 J	0.00027 J+	0.00026 J	0.00023 J	0.00024 J	0.00033 J	0.00029 J	0.00040 J	0.00064	0.00038 J	0.00027 J	0.00034 J	0.0035	0.00097	0.00056
Thallium	mg/L	< 0.000075 U	< 0.000075 U	< 0.00038 U	< 0.000075 U	< 0.00038 U	< 0.00038 U	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	< 0.00038 U	< 0.000075 U	< 0.00038 U	< 0.000075 U	< 0.00038 U	< 0.000075 U	< 0.000075 U	< 0.00038 U	< 0.000075 U	< 0.000075 U	< 0.000075 U
Total Suspended Solids	mg/L	45	51	52	50	56	52	46	48	39	47	50	57	47	33	64	64	60	15	47	62
Michigan CCR Part 115																					
Copper	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	0.00043	< 0.0002 U	< 0.00020 U	0.00029	0.0013	0.00029	0.00034	< 0.00020 U	< 0.00020 U	0.00024 J	0.0038	0.0018	0.0016
Iron	mg/L	17	19	19	24	25	25	19	16	15	22	26	20	16	13	26	24	23	5.8	17	23
Nickel	mg/L	0.00088 J	0.0020	0.0020	0.0033	0.0018	0.0010 J	0.0012	0.0012	0.00072 J	0.0060	0.0072	0.0099	0.0020	0.10	0.0044	0.0046	0.024	0.023	0.027	0.0047
Silver	mg/L	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.00025 U	< 0.00025 U	< 0.000050 U	< 0.000050 U	< 0.00005 U	< 0.00025 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U
Vanadium	mg/L	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	0.00047 J	0.00071 J	0.00028 J	0.00034 J	0.00071 J
Zinc	mg/L	0.025	0.0015	< 0.0012 UJ	< 0.0012 U	0.018	< 0.0012 U	< 0.0012 U	< 0.0012 U	< 0.0012 U	< 0.0012 U	< 0.0012 U	0.0017	0.0091	0.016	0.0045	0.0071	0.0019	0.12	0.017	0.012
Additional Parameters																					
Bicarbonate Alkalinity	mg/L	750	710	750	620	610	400	720	660	780	610	600	630	790	670	610	590	680	600	400	530
Carbonate Alkalinity	mg/L	< 1.6 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.31 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.16 U
Magnesium	mg/L	38	36	44	50	53	53	47	46	41	55	64	53	44	69	67	62	65	81	100	95
Potassium	mg/L	13	16	16	10 J	15	14	16	17	15	13	14	15	14	16	14	15	16	14	13	14
Sodium	mg/L	29	28	26	26	26	29	30	27	27	26	31	28	26	34	33	30	32	39	64	57
Total Alkalinity	mg/L	750	710	750	620	610	400	720	660	780	610	600	630	790	670	610	590	680	600	400	530

Notes:

ug/l - micrograms per liter.

mg/l = milligrams per liter.

su - standard pH units (pH is a field parameter)

pCi/L = picocuries per liter.

All metals were analyzed as total unless otherwise indicated.

Qualifiers:

U The analyte was analyzed for, but was not detected at, a level greater than or equal to the level of the adjusted reporting limit (RL) for the sample and method.

J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to the concentration of the analyte being below the RL).

J+ Same as J, and the reported concentration is potentially biased high.

J– Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Appendix D
Analytical Data Reporting Tables
Former J.B. Sims Generating Station
Renew Harbor Island

	Sample Location:	MW-09B
	Compliance Phase:	Post Development Sample
	Sample Date:	12/22/2025
	Sample Type:	Field Sample
	Unit:	Unit 3A/B & 1/2
	Sample Matrix:	Groundwater
Constituent	**Unit**	
Field Parameters		
Conductivity	mS/cm	1.756
Dissolved Oxygen	mg/L	0.03
Oxidation Reduction Potential	mV	-88.3
pH	su	7.14
Temperature	deg c	11.3
Turbidity	NTU	7.23
Appendix III		
Boron	mg/L	4.5
Calcium	mg/L	270
Chloride	mg/L	220
Fluoride	mg/L	1.8
Sulfate (as SO4)	mg/L	520
Total Dissolved Solids	mg/L	1600
Appendix IV		
Antimony	mg/L	0.00018 J
Arsenic	mg/L	0.0020
Barium	mg/L	0.093
Beryllium	mg/L	< 0.000052 U
Cadmium	mg/L	< 0.000075 U
Chromium, Total	mg/L	0.00034
Cobalt	mg/L	0.0015
Fluoride	mg/L	1.8
Lead	mg/L	0.00013 J
Lithium	mg/L	0.061
Mercury	mg/L	0.00000041
Molybdenum	mg/L	0.012
Radium 226 and 228	pCi/L	< 0.57 U
Radium-226	pCi/L	< 0.24 U
Radium-228	pCi/L	< 0.57 U
Selenium	mg/L	0.0024
Thallium	mg/L	< 0.000075 U
Total Suspended Solids	mg/L	15
Michigan CCR Part 115		
Iron	mg/L	7.4
Nickel	mg/L	0.0016
Silver	mg/L	< 0.000050 U
Vanadium	mg/L	0.00063 J
Zinc	mg/L	0.0090

Notes:
ug/l - micrograms per liter.
mg/l = milligrams per liter.
su - standard pH units (pH is a field parameter)
pCi/L = picocuries per liter.
All metals were analyzed as total unless otherwise indicated.
Qualifiers:
U The analyte was analyzed for, but was not detected at, a level greater than or equal to the level of the adjusted reporting limit (RL) for the sample and method.
J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to the concentration of the analyte being below the RL).
J+ Same as J, and the reported concentration is potentially biased high.
J– Same as J, and the reported concentration is potentially biased low.
UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.
R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Appendix D
Analytical Data Reporting Tables
Former J.B. Sims Generating Station
Renew Harbor Island

Sample Location:		MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10
Compliance Phase:		Background	Background	Background	Background	Background	Background	Background	Background	Background	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment
Sample Date:		11/29/2022	1/4/2023	2/6/2023	3/14/2023	4/18/2023	5/23/2023	6/27/2023	8/8/2023	10/23/2023	2/13/2024	4/7/2024	7/17/2024	10/16/2024	2/26/2025	4/20/2025	8/14/2025	10/20/2025	2/17/2026	4/23/2026	8/10/2026
Sample Type:		Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
Unit:		Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2
Sample Matrix:		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Constituent	**Unit**																				
Field Parameters																					
Conductivity	mS/cm	1.96	2.48	2.34	2.16	2.51	2.18	2.83	3.19	2.68	2.37	3.62	3.62	4	2.87	2.73	3.79	3.581	2.97	2.49	3.27
Dissolved Oxygen	mg/L	0.08	0.04	0.07	0.05	0.02	0.03	0.11	0.02	0.07	0.18	0.03	0.03	0.07	0.17	0.12	0.1	0.09	0.14	0.11	0.06
Oxidation Reduction Potential	mV	-20.3	-245.6	-222.9	-200.2	-189.2	-197.6	-216.2	-168	-149.1	-116.1	-162.4	-193.2	-144.8	99	-151.2	72.1	-158.5	-190.3	-168.9	-253.7
pH	su	7.85	7.79	7.05	8.19	7.96	8.81	7.85	7.74	7.47	7.8	7.8	7.42	7.53	7.76	7.77	7.53	7.36	7.78	7.82	7.49
Temperature	deg c	11.1	7.7	5.9	4.6	6.5	10.3	13.4	17	14.8	5.3	7.1	16.9	16.5	5.5	7	17.3	17	6.6	8.4	17.9
Turbidity	NTU	0.02	0.02	0.65	0.02	0.29	2.21	0.02	1.01	0.02	3.61	0.02	0.02	1.48	3.3	3.96	0.35	0.02	0.02	1.59	1.13
Appendix III																					
Boron	mg/L	25	14	9.7	4.5	9.2	17	26 J+	28	23	8.7	6.4	15	21	23	22	28	30	26	21	30
Calcium	mg/L	220	220	280	460	280	210	210	160	190	310	590	430	360	300	270	250	270	270	210	180
Chloride	mg/L	220	170	130	92	140	160	320	430	310	140	240	420	670	350	330	700	600	400	280	480
Fluoride	mg/L	7.1	5.7	4.0	2.7	4.6	6.5	7.3	7.7	6	3.3	2.7	4.2	5.2	5.9	5.7	6.2	5.2	5.6	5.4	5.7
Sulfate (as SO4)	mg/L	490	620	880	360	950	410	200	140	330	840	1700	1000	690	390	450	270	270	210	270	30
Total Dissolved Solids	mg/L	1700	1800	1800	2400	1900	1500	1700	1900	1600	1800	3200	2700	2800	1900	1800	2300	2200	1800	1500	1900
Appendix IV																					
Antimony	mg/L	0.00013 J	< 0.000050 U	< 0.00025 U	< 0.000050 U	0.00034 J	< 0.00050 U	0.00011 J	0.00011 J	< 0.0001 UJ	< 0.00050 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	0.00012 J+
Arsenic	mg/L	0.00049 J	0.00034 J	0.00038 J	0.00037 J	0.00020 J	0.00055	0.00073 J+	0.0011	0.00094	0.00025 J	0.00085	0.0012	0.0020	0.00053 J	0.00074	0.0016	0.0017	0.00086	0.00054 J	0.0014
Barium	mg/L	0.32	0.57	0.28	0.23	0.14	0.16	0.23	0.28	0.46	0.32	0.27	0.19	0.23	0.38	0.32	0.36	0.64	0.72	0.48	0.60
Beryllium	mg/L	< 0.000054 U	0.000071 J	< 0.000052 U	0.000054 J	< 0.000052 U	0.00022 J	0.000092 J+	0.00015 J	0.000052 J-	< 0.000052 U	< 0.000052 U	< 0.000052 U	0.000063 J	< 0.000052 U	0.000069 J	0.00012 J	0.000082 J+	< 0.000052 UJ	< 0.00010 U	< 0.00010 U
Cadmium	mg/L	< 0.000032 U	< 0.000032 U	< 0.00016 U	< 0.000032 U	< 0.00016 U	< 0.00038 U	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	< 0.00038 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U
Chromium, Total	mg/L	0.0040	0.0050	0.0026	0.0018	0.0019	0.0042	0.0070	0.0085	0.0042	0.0013	0.0016	0.0028	0.0031	0.0045	0.0048	0.0041	0.0049	0.0052	0.0041	0.0065
Cobalt	mg/L	0.00038 J	0.00040 J	0.00041 J	0.00053	0.00030 J	0.0018	0.00068 J+	0.00090	0.00038 J-	< 0.00010 U	0.00010 J	0.00025 J	0.00042 J	0.00029 J	0.00027 J	0.00053	0.00055	0.00037 J	0.00028 J	0.00074
Fluoride	mg/L	7.1	5.7	4.0	2.7	4.6	6.5	7.3	7.7	6	3.3	2.7	4.2	5.2	5.9	5.7	6.2	5.2	5.6	5.4	5.7
Lead	mg/L	< 0.00023 U	< 0.00022 U	< 0.0011 U	< 0.0011 U	< 0.0011 U	< 0.00050 U	< 0.00010 UJ	0.00012 J	0.00017 J	< 0.00050 U	< 0.00010 U	< 0.00050 U	< 0.00050 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	0.00028 J+
Lithium	mg/L	0.92	0.83	0.54	1.6	0.99	0.83	1.1	1.2	0.94	0.56	0.76	0.94	1.0	0.97	0.83	0.99	0.98	1.0	0.76	0.97
Mercury	mg/L	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 UJ	< 0.00016 U	0.0019	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00000016 U	0.00000037 J	< 0.00000016 U	0.00000020 J+	< 0.00000016 U	< 0.00000016 U
Molybdenum	mg/L	0.0072	0.0033	0.0048	0.0036	0.0035 J	0.0056	0.0019 J+	0.0028	0.0027	0.00080 J	0.0015	0.0037	0.0035	0.00065 J	0.0016	0.0022	0.0019	0.00089 J	0.0020	0.0016
Radium 226 and 228	pCi/L	< 0.775 U	< 0.645 U	1.36	< 1.09 U	< 0.605 UJ	< 0.801 U	< 0.752 U	< 0.736 U	< 0.897 UJ	1.22	< 0.59 U	< 0.698 U	1.96	< 0.83 U	< 1.12 UJ	2.06	< 1.15 U	< 0.613 UJ	< 0.863 U	1.21 J+
Radium-226	pCi/L	< 0.171 U	< 0.119 U	< 0.121 U	< 0.231 U	< 0.155 UJ	< 0.248 U	< 0.179 U	< 0.142 U	< 0.229 UJ	0.206	< 0.149 U	0.185	0.417	0.62	< 0.29 UJ	0.495	0.389 J+	< 0.108 UJ	< 0.158 UJ	0.352
Radium-228	pCi/L	< 1 U	< 0.645 U	1.31	< 1.09 U	< 0.605 UJ	< 0.801 U	< 0.752 U	< 0.736 U	< 0.897 UJ	1.01	< 0.59 U	< 0.698 U	1.54	< 0.83 U	< 1.12 UJ	1.57	< 1.15 U	< 0.613 UJ	< 0.863 U	0.863 J+
Selenium	mg/L	0.00031 J	0.00028 J	0.00031 J	0.00046 J	< 0.00022 U	0.00039 J	0.00036 J+	0.00041 J	0.00036 J	0.00083	0.00030 J	0.00034 J	0.00032 J	0.00019 J	0.00026 J	0.00034 J	0.00039 J	0.00030 J	0.00026 J	0.00036 J
Thallium	mg/L	< 0.000076 U	< 0.000075 U	< 0.00038 U	< 0.00038 U	< 0.00038 U	< 0.00038 U	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	< 0.00038 U	< 0.000075 U	< 0.00038 U	< 0.00038 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U
Total Suspended Solids	mg/L	4.0	4.0	1.0 J	9.0	8.0 J+	2.0 J	< 4.0 U	2.0 J	< 4 U	< 4.0 U	6.0	20	11	14	13	< 4.0 U	< 4.1 U	8.2	6.0	< 3.9 U
Michigan CCR Part 115																					
Copper	mg/L	0.00049	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	0.0013	< 0.00020 U	< 0.00020 U	0.00038 J-	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	0.0012 J+
Iron	mg/L	3.7	3.7	3.9	7.2	7.3	6.2	4.5	3.2	2.4	3.7	6.0	5.9	5.2	7.0	7.7	3.4	2.3	5.4	4.3	2.3
Nickel	mg/L	0.00089 J	0.00087 J	< 0.00065 U	< 0.00065 U	< 0.00065 U	0.0018	0.00088 J	0.0012	0.00076 J-	< 0.00065 U	< 0.00065 U	< 0.00065 U	0.00085 J	< 0.00065 U	0.00079 J	0.00092 J	0.0011 J	0.0012	0.00088 J	0.0015 J+
Silver	mg/L	< 0.000051 U	< 0.000050 U	< 0.00025 U	< 0.000050 U	< 0.00025 U	< 0.00025 U	< 0.000050 U	< 0.000050 U	< 0.00005 U	< 0.00025 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U
Vanadium	mg/L	< 0.00064 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	0.0013	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	0.00089 J	0.0010 J	< 0.00062 U	< 0.00062 U	0.0012	0.0014	0.00053 J	0.00045 J	0.0015
Zinc	mg/L	0.014	0.0012	< 0.0012 U	< 0.0012 U	0.013	0.0018	0.0012	0.0014	0.0025 J-	< 0.0012 U	< 0.0012 U	< 0.0012 U	0.014	< 0.0012 U	< 0.0012 U	0.019	0.0016 J+	0.048	0.033	0.010 J+
Additional Parameters																					
Bicarbonate Alkalinity	mg/L	680	580	320	140	340	540	720	770	700	240	220	410	560	850	680	730	710	870	690	900
Carbonate Alkalinity	mg/L	< 1.6 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.31 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.16 U
Magnesium	mg/L	85	86	91	95	76	63	59	58	61	86	120	100	91	110	100	76	79	100	68	68
Potassium	mg/L	44	33	31	40	42	36	46	48	45	41	60	63	62	42	38	50	56	40	33	44
Sodium	mg/L	220	160	120	140	160	190	310	390	300	120	130	250	360	230	220	440	390	260	210	350
Total Alkalinity	mg/L	680	580	320	140	340	540	720	770	700	240	220	410	560	850	680	730	710	870	690	900

Notes:

ug/l - micrograms per liter.

mg/l = milligrams per liter.

su - standard pH units (pH is a field parameter)

pCi/L = picocuries per liter.

All metals were analyzed as total unless otherwise indicated.

Qualifiers:

U The analyte was analyzed for, but was not detected at, a level greater than or equal to the level of the adjusted reporting limit (RL) for the sample and method.

J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to the concentration of the analyte being below the RL).

J+ Same as J, and the reported concentration is potentially biased high.

J– Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Appendix D
Analytical Data Reporting Tables
Former J.B. Sims Generating Station
Renew Harbor Island

Sample Location:		MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11
Compliance Phase:		Background	Background	Background	Background	Background	Background	Background	Background	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment
Sample Date:		11/29/2022	1/3/2023	2/8/2023	3/14/2023	4/18/2023	5/23/2023	6/28/2023	8/8/2023	10/24/2023	2/13/2024	4/7/2024	7/18/2024	10/16/2024	2/25/2025	4/20/2025	8/14/2025	10/23/2025	2/17/2026	4/22/2026	8/12/2026
Sample Type:		Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
Unit:		Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B
Sample Matrix:		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Constituent	**Unit**																				
Field Parameters																					
Conductivity	mS/cm	1.38	1.4	1.9	1.413	1.77	1.76	1.85	1.68	1.4	1.38	1.63	1.72	1.56	1.71	0.979	1.94	1.537	1.44	1.37	1.99
Dissolved Oxygen	mg/L	0.1	0.31	0.25	0.19	0.23	0.09	0.13	0.22	0.31	0.07	0.25	0.09	0.23	0.44	0.2	0.14	0.18	0.26	0.11	0.09
Oxidation Reduction Potential	mV	76.8	-142.4	-161.7	-121	-157.9	-136.5	-64.7	-27.6	-179.4	140.9	-148.2	-78	-142.4	50.6	-82.3	60.7	-147.6	-156.2	-147.2	-169.7
pH	su	7.28	7.32	7.4	7.47	7.33	7.34	7.31	7.22	7.44	7.33	7.38	7.13	7.24	7.09	7.28	7.2	7.23	7.37	7.41	7.12
Temperature	deg c	13.6	11.7	9.9	7.5	7.8	10.6	13.2	15.3	15.9	9.2	9.4	15.4	16.1	9.6	9.3	15	14.9	10.5	10.1	15.9
Turbidity	NTU	0.02	1.53	0.02	0.02	0.02	1.25	5.01	0.02	0.02	0.02	1.6	0.02	0.08	1.36	0.69	3.11	3.95	1.27	4.03	3.51
Appendix III																					
Boron	mg/L	8.5	13	4.8	2.8	1.5	2.0	3.0 J+	7.2	12	8.1	3.2	4.8	7.1	5.2	4.5	6.4	12	14	12	4.8
Calcium	mg/L	240	130	300	380	320	320	350	240	150	230	290	270	190	270	220	290	200	140	130	310
Chloride	mg/L	95	84	78	62	52	53	72	73	88	62	38	59	73	71	39	95	72	74	46	76
Fluoride	mg/L	0.81	1.4	0.37	0.32	0.21	0.22	0.25	0.69	1.2	0.75	0.61	0.47	0.90	0.45	0.69	0.64	0.92	1.6	1.6	0.78
Sulfate (as SO4)	mg/L	13 J	10	42	180	210	87	17	1.8 J	< 0.41 U	< 0.41 U	14	< 2.2 U	< 1.1 U	< 2.2 U	< 2.2 U	5.4 J	17	< 0.58 U	7.2	41
Total Dissolved Solids	mg/L	970 J-	680	1200	1100	1200	1200	1100	930	1800	880	960	1000	890	1000	870	1100	850	710	760	1200
Appendix IV																					
Antimony	mg/L	0.000082 J	0.00069	< 0.000050 U	< 0.000050 U	0.00028 J	< 0.00050 U	< 0.00010 U	< 0.00010 U	< 0.0001 U	< 0.00010 U	0.00028	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	0.00030	< 0.00010 U	< 0.00010 U	< 0.00010 U
Arsenic	mg/L	0.0017	0.0041	0.0016	0.0011	0.00061	0.0010	0.0012 J+	0.0019	0.0023	0.0012	0.0013	0.0015	0.0016	0.0014	0.0020	0.0022	0.0044	0.0038	0.0041	0.0010
Barium	mg/L	0.74	1.2	0.59	0.60	0.36	0.41	0.50	0.57	0.87	0.83	0.53	0.56	0.78	0.57	0.57	0.68	0.66	1.1	1.4	0.73
Beryllium	mg/L	< 0.000052 U	0.000091 J	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 UJ	< 0.000052 U	< 0.000052 U	< 0.000052 U	0.00044	< 0.000052 U	0.000088 J	< 0.000052 U	< 0.000052 U	< 0.000052 U	0.000054 J	0.000098 J+	0.00011 J	< 0.00010 U
Cadmium	mg/L	< 0.000032 U	0.00073	< 0.000032 U	< 0.000032 U	< 0.00016 U	< 0.00038 U	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	< 0.000075 U	0.00016 J	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	0.00035	< 0.000075 U	< 0.000075 U	< 0.000075 U
Chromium, Total	mg/L	0.00080	0.0086	0.0010	0.00087	0.00045	0.00052	0.0012	0.0018	0.00063	0.00062	0.00078	0.0010	0.00091	0.00086	0.0010	0.0013	0.0036	0.00095	0.0011	0.0010
Cobalt	mg/L	0.00036 J	0.0012	0.00061	0.00072	0.00040 J	0.00040 J	0.00066 J+	0.00061	0.00023 J	0.00026 J	0.0024	0.00028 J	0.00032 J	0.00035 J	0.00027 J	0.00049 J	0.0026	0.00057 J-	0.00068	0.00034 J
Fluoride	mg/L	0.81	1.4	0.37	0.32	0.21	0.22	0.25	0.69	1.2	0.75	0.61	0.47	0.90	0.45	0.69	0.64	0.92	1.6	1.6	0.78
Lead	mg/L	0.0025	0.068	0.0018 J	< 0.00022 U	< 0.0011 U	< 0.00050 U	0.0038 J+	0.00017 J	0.00036 J	0.00031 J	0.00043 J	0.00018 J	0.00041 J	0.00042 J	0.0012	0.0089	0.034	0.00060	0.0035	0.0030
Lithium	mg/L	0.10	0.22	0.052	0.028	0.0059	0.0084	0.022	0.095	0.15	0.077	0.028	0.042	0.065	0.051	0.055	0.057	0.10	0.17	0.14	0.049
Mercury	mg/L	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	0.0011	< 0.00016 U	< 0.00016 U	< 0.00016 U	0.00000088	0.0000027	0.0000011	0.0000013	0.000013	0.0000024
Molybdenum	mg/L	0.0017	0.0029	0.0015	< 0.00062 U	< 0.00062 U	0.00043 J	0.00066 J+	0.0013	0.0015	0.00066 J	0.0030	0.0010 J	0.00062 J	0.00095 J	0.00099 J	0.0022	0.0039	0.0026	0.0043	0.00036 J
Radium 226 and 228	pCi/L	1.19	1.32	< 0.91 U	1.07	1.67	0.812	< 1 U	1.76	0.764	1.13	< 0.775 U	< 0.575 U	2.61	1.35	--	1.1	< 1.43 U	< 0.841 U	< 0.948 U	2.03
Radium-226	pCi/L	0.445	0.422	0.352	0.304	0.406	0.228	0.243	0.409	0.469	0.514	0.205	0.275	0.319	0.61	--	< 0.391 U	0.547	0.324	0.325	0.77
Radium-228	pCi/L	0.75	0.903	< 0.91 U	< 0.84 U	1.26	< 0.721 U	< 1 U	1.35	< 0.624 U	< 0.765 U	< 0.775 U	< 0.575 U	2.3	0.74	--	0.832	< 1.43 U	< 0.841 UJ	< 0.948 U	1.26
Selenium	mg/L	0.00022 J	0.00031 J	< 0.00022 U	< 0.00022 U	< 0.00022 U	0.00014 J	0.00016 J+	0.00021 J	0.0002 J	0.00071	0.00041 J	0.00017 J	0.00015 J	0.00018 J	0.00015 J	0.00023 J	0.00033 J	0.00026 J+	0.00029 J	0.00023 J
Thallium	mg/L	< 0.000075 U	< 0.000075 U	< 0.00038 U	< 0.000075 U	< 0.00038 U	< 0.00038 U	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	< 0.000075 U	0.00021 J	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U
Total Suspended Solids	mg/L	21	35	10	11	4.0	< 4.0 U	4.0	6.0	19	9.0	4.0	4.0	28	22	16	22	19	39	63	23
Michigan CCR Part 115																					
Copper	mg/L	0.00043	0.019	0.00047	< 0.00020 U	< 0.00020 U	0.00024 J	0.00056	0.0016	< 0.0002 U	0.00020 J	0.0021	0.00031	0.00028	0.00025	< 0.00020 U	0.00077	0.0064	0.00047 J-	0.0028	0.00036
Iron	mg/L	8.7	10	4.9	6.1	3.6	3.8	4.2	6.7	11	8.5	5.6	7.1	9.5	8.2	7.6	10	7.3	18	18	6.1
Nickel	mg/L	0.0013	0.0094	0.0015	0.0012	0.00065 J	0.00068 J	0.0013	0.0018	0.0015	0.0011 J	0.0028	0.00098 J	0.0015	0.0015	0.0013	0.0019	0.015	0.0024	0.0029	0.0011 J
Silver	mg/L	< 0.000050 U	0.00014	< 0.000050 U	< 0.000050 U	< 0.00025 U	< 0.00025 U	< 0.000050 U	< 0.000050 U	< 0.00005 U	< 0.000050 U	0.00017	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	0.00015	< 0.000050 U	< 0.000050 U	< 0.000050 U
Vanadium	mg/L	< 0.00062 U	0.00062 J	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	0.0030	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	0.00068 J	0.0010 J	0.00054 J-	0.00056 J	0.00051 J
Zinc	mg/L	0.032	0.10	0.0085	< 0.0012 U	0.033	< 0.0012 U	0.0049	0.0031	0.0018	< 0.0012 U	0.0035	< 0.0012 U	0.032	0.041	0.0027	0.042	0.047	0.069	0.085	0.049
Additional Parameters																					
Bicarbonate Alkalinity	mg/L	840	600	860	810	800	840	890	800	660	760	840	820	770	900	810	880	700	660	670	980
Carbonate Alkalinity	mg/L	< 1.6 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.31 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.16 U
Magnesium	mg/L	60	55	63	67	60	55	55	56	52	61	55	49	48	58	47	55	55	58	59	70
Potassium	mg/L	15	19	11	8.5	5.7	5.5	8.1	14	18	14	7.2	9.2	12	11	9.8	13	18	22	18	12
Sodium	mg/L	57	70	37	25	21	26	38	50	67	51	28	36	45	44	32	49	64	73	59	45
Total Alkalinity	mg/L	840	600	860	810	800	840	890	800	660	760	840	820	770	900	810	880	700	660	670	980

Notes:

ug/l - micrograms per liter.

mg/l = milligrams per liter.

su - standard pH units (pH is a field parameter)

pCi/L = picocuries per liter.

All metals were analyzed as total unless otherwise indicated.

Qualifiers:

U The analyte was analyzed for, but was not detected at, a level greater than or equal to the level of the adjusted reporting limit (RL) for the sample and method.

J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to the concentration of the analyte being below the RL).

J+ Same as J, and the reported concentration is potentially biased high.

J– Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Appendix D
Analytical Data Reporting Tables
Former J.B. Sims Generating Station
Renew Harbor Island

Sample Location:		MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12
Compliance Phase:		Background	Background	Background	Background	Background	Background	Background	Background	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment
Sample Date:		11/28/2022	1/3/2023	2/7/2023	3/13/2023	4/19/2023	5/23/2023	6/27/2023	8/7/2023	10/23/2023	2/13/2024	4/8/2024	7/17/2024	10/16/2024	2/26/2025	4/21/2025	8/13/2025	10/22/2025	2/18/2026	4/20/2026	8/12/2026	
Sample Type:		Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	
Unit:		Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	
Sample Matrix:		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	
Constituent	**Unit**																					
Field Parameters																						
Conductivity	mS/cm	0.459	0.387	0.542	0.311	0.52	0.44	0.55	0.67	0.64	0.33	0.345	0.57	0.55	0.471	0.345	0.577	0.669	0.412	0.28	0.391	
Dissolved Oxygen	mg/L	1.62	8.72	8.46	10.31	1.03	2.93	0.12	0.08	0.16	11.12	8.25	0.17	0.11	2.07	4.03	0.15	0.2	2.85	1.46	0.21	
Oxidation Reduction Potential	mV	93.4	47.4	-14.8	87.6	26.2	131	54.9	-30.1	-118.7	36.8	125.4	-2.2	-38	-18.7	-21.7	-97.4	-90.1	-20.1	-27.6	-58.9	
pH	su	7.67	7	7.8	8.16	7.92	7.77	7.52	7.47	7.46	8.32	7.91	7.46	7.33	7.73	7.64	7.39	7.32	7.79	7.89	7.22	
Temperature	deg c	8.8	3.3	1.3	3	9.7	13.9	17.5	20.9	15.9	3.5	6.5	19.5	17.6	3.7	8.2	21.6	17.1	4.4	12.7	22.6	
Turbidity	NTU	0.02	0.02	0.02	0.02	0.02	1.92	0.02	0.02	0.31	0.02	0.02	0.02	0.02	0.02	0.02	7.13	0.02	6.01	0.86	3.3	
Appendix III																						
Boron	mg/L	0.39	0.24	0.26	0.19	0.20	0.27	0.33 J+	0.36	0.42	0.22	0.25	0.41	0.40	0.36	0.23	0.44	0.62	0.23	0.14	0.26	
Calcium	mg/L	77	46	78	77	55	63	64	95	95	40	40	74	79	59	41	69	99	52	37	50	
Chloride	mg/L	24	16	27	18	16	15	17	22	26	17	12	18	18	27	15	16	17	19	9.0	11	
Fluoride	mg/L	0.54	0.43	0.23	0.48	0.23	0.22	0.26	0.28	0.26	0.46	0.41	0.29	0.31	0.20	0.27	0.31	0.30	0.26	0.29	0.29	
Sulfate (as SO4)	mg/L	180	130	180	120	110	99	110	130	130	84	68	62	52	100	61	53	58	55	25	9.2	
Total Dissolved Solids	mg/L	360	210	340	200	260	270	330	420	200	100	210	380	330	300	200	350	400	260	140	220	
Appendix IV																						
Antimony	mg/L	0.00071	0.0011	0.00076	0.00053	0.00094	0.00092	0.00064	0.00040	0.00041	0.00035	0.00053	0.00040	0.00084	0.0015	0.00068	0.00024 J	0.00017 J	0.0015	0.00099	0.00016 J	
Arsenic	mg/L	0.0028	0.0019	0.0018	0.0014	0.0019	0.0024	0.0029 J+	0.0034	0.0031	0.0016	0.0017	0.0032	0.0030	0.0015	0.0016	0.0052	0.0064	0.0020	0.0014	0.0059	
Barium	mg/L	0.030	0.017	0.024	0.025	0.022	0.032	0.043	0.053	0.06	0.022	0.025	0.071	0.10	0.051	0.038	0.11	0.14	0.050	0.063	0.13	
Beryllium	mg/L	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 UJ	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	0.000066 J	< 0.00010 U	< 0.00010 U	
Cadmium	mg/L	0.00067	0.00078	0.0014	0.00062	0.0012	0.0016	0.0024 J+	0.0022	0.0011	0.00054	0.00082	0.0032	0.0028	0.0012	0.0015	0.011	0.0051	0.0027	0.00065 J+	0.0019	
Chromium, Total	mg/L	0.00034	0.00048	0.00046	0.00067	0.00054	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.0002 U	0.00099	0.00095	< 0.00020 UJ	0.00025	0.00041	0.00095	< 0.00020 U	0.00021 J	0.00042	0.00051	0.00022 J	
Cobalt	mg/L	0.00019 J	< 0.00010 U	0.00014 J	< 0.00010 U	< 0.00010 U	0.00026 J	0.00050 J+	0.00053	0.00038 J	< 0.00010 U	< 0.00010 U	0.00056	0.00093	0.00011 J	0.00015 J	0.0013	0.0028	0.00029 J	0.00013 J+	0.00092	
Fluoride	mg/L	0.54	0.43	0.23	0.48	0.23	0.22	0.26	0.28	0.26	0.46	0.41	0.29	0.31	0.20	0.27	0.31	0.30	0.26	0.29	0.29	
Lead	mg/L	< 0.00022 U	< 0.00022 U	< 0.00022 U	< 0.00022 U	< 0.00022 U	0.00015 J	0.00014 J+	0.00021 J	0.00021 J	< 0.00010 U	0.00039 J	0.00038 J	0.00047 J	0.00015 J	0.00051 J	0.00026 J	0.00020 J	0.00080	0.00041 J	0.00027 J	
Lithium	mg/L	0.0037	0.0033	0.0022 J	0.0025 J+	0.0037	0.0043	0.0064	0.0042	0.0048	0.0023 J	0.0019 J	0.0047	0.0059	0.0020 J	0.0019 J	0.0055	0.0047	< 0.0019 U	0.0041	0.0036	
Mercury	mg/L	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	0.00016 J	< 0.00016 U	0.00023	< 0.00016 U	< 0.00016 U	< 0.00016 U	0.00000083	0.0000010	0.0000012	0.0000011	0.0000051	0.0000016	
Molybdenum	mg/L	0.0087	0.0072	0.0067	0.0056	0.0057	0.0069	0.0082 J+	0.0088	0.0096	0.0051	0.0046	0.0064	0.018	0.0087	0.0059	0.0083	0.0080	0.0042	0.0063	0.0071	
Radium 226 and 228	pCi/L	< 0.543 U	< 0.459 U	< 0.685 U	< 0.619 U	0.809	1.09	< 0.59 UJ	< 0.578 UJ	< 0.517 U	< 0.749 U	0.769	< 0.602 UJ	1.07	< 0.86 U	0.589	1.12	0.989	< 0.525 U	0.833 J+	< 0.393 U	
Radium-226	pCi/L	< 0.13 U	< 0.0702 U	< 0.0727 U	< 0.126 U	< 0.129 U	< 0.136 U	< 0.124 U	< 0.106 UJ	< 0.212 U	< 0.116 U	< 0.146 U	0.119	< 0.148 U	< 0.3 U	< 0.306 U	< 0.325 U	0.233	< 0.166 U	< 0.271 UJ	0.245	
Radium-228	pCi/L	< 0.543 U	< 0.459 U	< 0.685 U	< 0.619 U	0.793	1.07	< 0.59 UJ	< 0.578 UJ	< 0.517 U	< 0.749 U	0.729	< 0.602 UJ	1.07	< 0.86 U	< 0.487 U	0.943	0.756	< 0.525 U	< 0.823 UJ	< 0.393 U	
Selenium	mg/L	0.0015	0.0022	0.0023	0.00093	0.0017	0.00076	0.00021 J+	0.00013 J	0.00029 J	0.00089	0.0012	0.00014 J	0.00043 J	0.0043	0.0017	0.00028 J	0.00017 J	0.0045	0.00023 J	0.00015 J	
Thallium	mg/L	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	
Total Suspended Solids	mg/L	< 4.0 U	< 4.0 U	2.0 J	< 4.0 U	1.0 J	< 4.0 U	< 4.0 UJ	0.98 J+	< 4 U	< 4.0 U	< 4.0 U	< 3.9 U	< 4.0 U	< 4.0 U	< 4.0 U	6.0	< 4.1 U	< 4.0 U	< 4.0 U	< 1.5 U	
Michigan CCR Part 115																						
Copper	mg/L	0.00055	0.00092	0.0010	0.0010	0.0015	0.0016	0.0012	0.00094	0.00071	0.0012	0.0013	0.0014	0.0019	0.0034	0.0022	0.0018	0.00088	0.0035	0.0031	0.00090	
Iron	mg/L	< 0.26 U	< 0.026 U	0.033 J	0.027 J	< 0.026 U	< 0.026 U	0.051	0.064	0.037 J	< 0.026 UJ	< 0.026 UJ	0.068	0.15	0.021 J	0.047 J	0.40	0.92	0.14	0.059	0.22	
Nickel	mg/L	0.0025	0.0023	0.0035	0.0016	0.0021	0.0025	0.0031	0.0035	0.0026	0.0014	0.0014	0.0029	0.0034	0.0029	0.0019	0.0062	0.0073	0.0030	0.0010 J	0.0019	
Silver	mg/L	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.00005 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	
Vanadium	mg/L	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	0.00085 J	0.0013	0.0012	0.00095 J	< 0.00062 U	< 0.00062 U	0.00087 J	0.0016	0.0021	0.00074 J	0.0010 J	0.00096 J	0.00046 J	0.0012	0.00094 J	0.00044 J	
Zinc	mg/L	0.0068	0.0080	0.0095	0.0037	0.0090	0.0074	0.0085	0.010	0.008	0.0027	0.0050	0.011	0.017	0.0073	0.0080	0.023	0.022	0.021	0.015	0.019	
Additional Parameters																						
Bicarbonate Alkalinity	mg/L	86	55	52	46	85	95	140	140	190	47	86	200	220	98	100	250	290	130	100	170	
Carbonate Alkalinity	mg/L	< 1.6 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.16 U	
Magnesium	mg/L	17	12	2.4	12	13	15	14	19	22	11	13	21	19	18	12	23	29	14	6.9	12	
Potassium	mg/L	1.3	0.70	0.74	0.82	1.0	1.3	1.3	1.8	1.7	0.62	0.60	1.3	1.8	0.62	0.86	1.8	1.7	0.75	2.8	1.5	
Sodium	mg/L	13	11	14	9.9	9.4	11	11	14	16	9.8	8.8	12	18	15	9.1	13	13	10	6.8	8.6	
Total Alkalinity	mg/L	86	55	52	46	85	95	140	140	190	47	86	200	220	98	100	250	290	130	100	170	

Notes:

ug/l - micrograms per liter.

mg/l = milligrams per liter.

su - standard pH units (pH is a field parameter)

pCi/L = picocuries per liter.

All metals were analyzed as total unless otherwise indicated.

Qualifiers:

U The analyte was analyzed for, but was not detected at, a level greater than or equal to the level of the adjusted reporting limit (RL) for the sample and method.

J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to the concentration of the analyte being below the RL).

J+ Same as J, and the reported concentration is potentially biased high.

J– Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Appendix D
Analytical Data Reporting Tables
Former J.B. Sims Generating Station
Renew Harbor Island

Sample Location:		MW-13	MW-13	MW-13	MW-13	MW-13
Compliance Phase:		Assessment	Assessment	Assessment	Assessment	Assessment
Sample Date:		8/13/2025	10/21/2025	2/18/2026	4/21/2026	8/11/2026
Sample Type:		Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
Unit:		Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B
Sample Matrix:		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Constituent	**Unit**					
Field Parameters						
Conductivity	mS/cm	1.46	1.287	1.94	1.74	1.66
Dissolved Oxygen	mg/L	0.15	0.12	0.27	0.24	0.17
Oxidation Reduction Potential	mV	17.3	-296.4	-164.8	-59.6	-299.1
pH	su	7.45	7.36	7.27	7.25	7.32
Temperature	deg c	19.8	18.3	12.9	12.9	19.2
Turbidity	NTU	0.81	0.02	0.02	0.02	0.96
Appendix III						
Boron	mg/L	1.2	0.93	1.4	1.2	1.4
Calcium	mg/L	310	270	460	390	310
Chloride	mg/L	10	12	8.6	4.9	13
Fluoride	mg/L	0.73	0.44	0.64	0.44	0.68
Sulfate (as SO4)	mg/L	480	290	690	750	490
Total Dissolved Solids	mg/L	1100	940	1500	1100	1300
Appendix IV						
Antimony	mg/L	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U
Arsenic	mg/L	0.00025 J	0.00024 J	0.00043 J	0.00035 J	0.00034 J
Barium	mg/L	0.088	0.095	0.20	0.11	0.13
Beryllium	mg/L	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.00010 U	< 0.00010 U
Cadmium	mg/L	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U
Chromium, Total	mg/L	0.0015	0.0018	0.0019	0.0012	0.0016
Cobalt	mg/L	< 0.00010 U	0.00013 J	< 0.00010 U	< 0.00010 U	0.00014 J
Fluoride	mg/L	0.73	0.44	0.64	0.44	0.68
Lead	mg/L	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U
Lithium	mg/L	0.047	0.036	0.053	0.035	0.037
Mercury	mg/L	0.00000028 J	< 0.00000016 U	< 0.00000016 U	< 0.00000016 U	< 0.00000016 U
Molybdenum	mg/L	0.0028	0.0019	0.00095 J	0.0053	0.0014
Radium 226 and 228	pCi/L	< 0.796 U	0.804	0.97	1.26	1.55
Radium-226	pCi/L	< 0.353 U	< 0.21 U	0.366	0.28	0.309
Radium-228	pCi/L	< 0.796 U	< 0.668 U	< 0.772 U	0.985	1.24
Selenium	mg/L	0.00010 J	0.00011 J	0.00017 J	< 0.00010 U	0.00014 J
Thallium	mg/L	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U
Total Suspended Solids	mg/L	< 4.0 U	< 4.0 U	< 4.3 U	< 4.0 U	< 3.9 U
Michigan CCR Part 115						
Copper	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	0.00025	0.00024 J
Iron	mg/L	0.25	0.079	0.56	0.56	0.13
Nickel	mg/L	0.0024	0.00086 J	0.00098 J	0.0027	0.0022
Silver	mg/L	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U
Vanadium	mg/L	0.00064 J	0.00072 J	0.00053 J	0.00028 J	0.00067 J
Zinc	mg/L	0.0058	< 0.00048 U	0.019	0.013	0.0068
Additional Parameters						
Bicarbonate Alkalinity	mg/L	370	430	560	370	470
Carbonate Alkalinity	mg/L	< 0.31 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.16 U
Magnesium	mg/L	16	14	36	34	20
Potassium	mg/L	11	11	9.3	6.0	17
Sodium	mg/L	25	26	16	11	30
Total Alkalinity	mg/L	370	430	560	370	470

Notes:

ug/l - micrograms per liter.

mg/l = milligrams per liter.

su - standard pH units (pH is a field parameter)

pCi/L = picocuries per liter.

All metals were analyzed as total unless otherwise indicated.

Qualifiers:

U The analyte was analyzed for, but was not detected at, a level greater than or equal to the level of the adjusted reporting limit (RL) for the sample and method.

J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to the concentration of the analyte being below the RL).

J+ Same as J, and the reported concentration is potentially biased high.

J– Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Appendix D
Analytical Data Reporting Tables
Former J.B. Sims Generating Station
Renew Harbor Island

	Sample Location:	MW-15B
	Compliance Phase:	Post Development Sample
	Sample Date:	12/22/2025
	Sample Type:	Field Sample
	Unit:	Unit 3A/B
	Sample Matrix:	Groundwater
Constituent	**Unit**	
Field Parameters		
Conductivity	mS/cm	1.748
Dissolved Oxygen	mg/L	0.02
Oxidation Reduction Potential	mV	-50.8
pH	su	6.79
Temperature	deg c	11.9
Turbidity	NTU	5.32
Appendix III		
Boron	mg/L	0.29 J-
Calcium	mg/L	240
Chloride	mg/L	35
Fluoride	mg/L	0.18 J
Sulfate (as SO4)	mg/L	500
Total Dissolved Solids	mg/L	1400
Appendix IV		
Antimony	mg/L	< 0.00010 U
Arsenic	mg/L	0.0014
Barium	mg/L	0.27
Beryllium	mg/L	< 0.000052 U
Cadmium	mg/L	< 0.000075 U
Chromium, Total	mg/L	0.00050
Cobalt	mg/L	0.0049
Fluoride	mg/L	0.18 J
Lead	mg/L	< 0.00010 U
Lithium	mg/L	0.024
Mercury	mg/L	0.00000074
Molybdenum	mg/L	0.0038
Radium 226 and 228	pCi/L	1.56
Radium-226	pCi/L	0.395 J-
Radium-228	pCi/L	1.17 J+
Selenium	mg/L	0.0011
Thallium	mg/L	< 0.000075 U
Total Suspended Solids	mg/L	30
Michigan CCR Part 115		
Iron	mg/L	8.9 J-
Nickel	mg/L	0.0020
Silver	mg/L	< 0.000050 U
Vanadium	mg/L	0.00077 J
Zinc	mg/L	0.023

Notes:
ug/l - micrograms per liter.
mg/l = milligrams per liter.
su - standard pH units (pH is a field parameter)
pCi/L = picocuries per liter.
All metals were analyzed as total unless otherwise indicated.
Qualifiers:
U The analyte was analyzed for, but was not detected at, a level greater than or equal to the level of the adjusted reporting limit (RL) for the sample and method.
J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to the concentration of the analyte being below the RL).
J+ Same as J, and the reported concentration is potentially biased high.
J– Same as J, and the reported concentration is potentially biased low.
UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.
R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Appendix D
Analytical Data Reporting Tables
Former J.B. Sims Generating Station
Renew Harbor Island

Sample Location:		MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16
Compliance Phase:		Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment
Sample Date:		4/8/2024	7/18/2024	10/17/2024	2/25/2025	4/21/2025	8/13/2025	10/21/2025	2/19/2026	4/23/2026	8/11/2026
Sample Type:		Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
Unit:		Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2
Sample Matrix:		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Constituent	**Unit**										
Field Parameters											
Conductivity	mS/cm	1.1	1.36	1.36	1.36	1.25	1.34	1.181	1.29	1.12	1.06
Dissolved Oxygen	mg/L	0.04	0.18	0.19	0.06	0.17	0.09	0.24	0.29	0.21	0.1
Oxidation Reduction Potential	mV	-90.4	-15.6	-135.9	-51.2	-111.6	-7.7	-110.2	-137.9	-126.3	NA
pH	su	7.29	6.53	6.93	7.29	7.3	6.77	6.77	7.29	7.06	6.9
Temperature	deg c	7.1	17.6	18.2	4.5	8.1	20.8	18.2	4.5	12.6	22
Turbidity	NTU	0.02	0.02	0.02	0.59	0.02	0.02	1.07	1.81	0.02	1.33
Appendix III											
Boron	mg/L	0.22	0.43	0.39	0.27	0.29	0.50	0.42	0.29	0.21	0.37
Calcium	mg/L	190	250	230	280	230	260	230	250	200	180
Chloride	mg/L	14	21	20	18	17	23	22	23	17	18
Fluoride	mg/L	0.14	0.19 J	< 0.055 U	0.15 J	0.18	0.13 J	0.19 J	0.16 J	0.19 J	0.20
Sulfate (as SO4)	mg/L	60	< 2.2 U	< 1.1 U	90	140	8.7	1.1 J	130	190	15
Total Dissolved Solids	mg/L	680	830	790	910	850	790	700	840	760	640
Appendix IV											
Antimony	mg/L	< 0.00010 U	< 0.00010 U	0.00011 J	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U
Arsenic	mg/L	0.0052	0.0034	0.017	0.0012	0.0045	0.0035	0.023	0.0063	0.014	0.017
Barium	mg/L	0.18	0.28	0.29	0.18	0.21	0.22	0.26	0.28	0.38	0.32
Beryllium	mg/L	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	0.000054 J	< 0.00010 U	< 0.00010 U
Cadmium	mg/L	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U
Chromium, Total	mg/L	0.00064	0.00085	0.0013	0.00051	0.00062	0.0015	0.0022	0.00057	0.00073	0.0017
Cobalt	mg/L	0.00021 J	0.00017 J	0.00030 J	0.00039 J	0.00019 J	0.00018 J	0.00016 J	0.00021 J	0.00063	0.00018 J+
Fluoride	mg/L	0.14	0.19 J	< 0.055 U	0.15 J	0.18	0.13 J	0.19 J	0.16 J	0.19 J	0.20
Lead	mg/L	< 0.00010 U	< 0.00010 U	0.00013 J	0.00019 J	< 0.00010 U	< 0.00010 U	0.00028 J	< 0.00010 U	< 0.00010 U	0.00014 J-
Lithium	mg/L	0.016	0.025	0.024	0.020	0.020	0.027	0.025	0.021	0.015	0.024
Mercury	mg/L	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00000016 U	0.00000043 J	< 0.00000016 U	0.00000029 J	< 0.00000016 U	< 0.00000016 UJ
Molybdenum	mg/L	< 0.00025 U	< 0.00025 U	< 0.00025 U	< 0.00025 U	< 0.00025 U	< 0.00025 U	< 0.00025 U	< 0.00025 U	0.00055 J	< 0.00032 U
Radium 226 and 228	pCi/L	1.01	< 0.623 U	2.31	< 0.62 U	1.09	1.84	< 1.16 U	< 0.621 U	2.07	1.51
Radium-226	pCi/L	< 0.199 U	0.296	0.371	< 0.24 U	< 0.33 U	< 0.574 U	< 0.343 U	0.197	0.416	0.356
Radium-228	pCi/L	0.902	< 0.623 U	1.94	< 0.62 U	0.836	1.6	< 1.16 U	< 0.621 U	1.65	1.15
Selenium	mg/L	0.00012 J	0.00011 J	0.00015 J	< 0.00010 U	0.00013 J	0.00015 J	0.00025 J	0.00017 J	0.00013 J	0.00022 J
Thallium	mg/L	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U
Total Suspended Solids	mg/L	16	11	40	4.0	17	< 4.0 U	31	16	29	15
Michigan CCR Part 115											
Copper	mg/L	0.00025	< 0.00020 U	< 0.00020 U	0.00031	< 0.00020 U	< 0.00020 U	0.00030	0.00035	0.00023 J	< 0.00020 UJ
Iron	mg/L	7.1	6.7	13	4.7	6.7	0.99	12	7.9	12	5.5
Nickel	mg/L	0.00065 J	< 0.00065 U	0.0010 J	0.0028	0.0017	0.00055 J	0.0060	0.0088	0.0012	0.0054 J+
Silver	mg/L	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U
Vanadium	mg/L	< 0.00062 U	0.00066 J	0.00076 J	< 0.00062 U	< 0.00062 U	0.0010 J	0.0011 J	0.00038 J	0.00065 J	0.00094 J
Zinc	mg/L	< 0.0012 U	< 0.0012 U	0.012	0.016	0.0012	0.013	0.00087 J	0.026	0.029	0.0076
Additional Parameters											
Bicarbonate Alkalinity	mg/L	550	710	760	720	620	710	620	590	410	530
Carbonate Alkalinity	mg/L	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.16 U
Magnesium	mg/L	23	27	26	33	28	26	21	31	21	18
Potassium	mg/L	3.9	5.1	5.2	5.2	5.0	5.6	4.8	4.8	3.7	4.8
Sodium	mg/L	17	23	21	25	21	25	14	22	16	21
Total Alkalinity	mg/L	550	710	760	720	620	710	620	590	410	530

Notes:

ug/l - micrograms per liter.

mg/l = milligrams per liter.

su - standard pH units (pH is a field parameter)

pCi/L = picocuries per liter.

All metals were analyzed as total unless otherwise indicated.

Qualifiers:

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Appendix D
Analytical Data Reporting Tables
Former J.B. Sims Generating Station
Renew Harbor Island

Sample Location:		MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17
Compliance Phase:		Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment
Sample Date:		4/8/2024	7/17/2024	10/16/2024	2/3/2025	4/20/2025	8/12/2025	10/22/2025	2/18/2026	4/21/2026	8/11/2026
Sample Type:		Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
Unit:		Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2
Sample Matrix:		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Constituent	**Unit**										
Field Parameters											
Conductivity	mS/cm	1.12	0.95	1.03	1.02	0.655	1.048	1.102	0.712	0.95	1.02
Dissolved Oxygen	mg/L	0.06	0.02	0.03	0.01	0.14	0.14	0.12	1.99	0.1	0.1
Oxidation Reduction Potential	mV	-157.2	-197.6	-194.5	-74.4	-128.6	-208.2	-169	-101.5	-192.4	-185
pH	su	7.88	7.31	7.52	7.69	7.75	7.54	7.42	7.47	7.87	7.5
Temperature	deg c	9.1	20.3	18.6	6.7	9	20.7	18.1	5.7	9.6	19.8
Turbidity	NTU	0.02	0.21	1.02	3.69	1.01	0.02	1.07	0.02	0.02	0.02
Appendix III											
Boron	mg/L	0.79	0.75	0.89	0.58	0.52	1.0	0.92	0.32	0.46	0.86
Calcium	mg/L	160	140	130	130	120	150	150	98	120	120
Chloride	mg/L	43	33	47	34	34	36	32	10	21	24
Fluoride	mg/L	0.48	0.56	0.67	0.38	0.54	0.65	0.75	0.74	0.54	0.60
Sulfate (as SO4)	mg/L	4.8 J	33	7.3	27	4.4 J	0.79 J	< 0.58 U	50	1.1 J	< 0.58 U
Total Dissolved Solids	mg/L	620	620	580	600	560	620	620	360	470	610
Appendix IV											
Antimony	mg/L	< 0.00010 U	0.00016 J	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	0.0015	< 0.00010 U	< 0.00010 U
Arsenic	mg/L	0.0018	0.0026	0.0024	0.0012	0.0013	0.0023	0.0020	0.0014	0.0016	0.0021
Barium	mg/L	0.70	0.53	0.65	0.55	0.60	0.90	0.86	0.28	0.63	0.79
Beryllium	mg/L	< 0.000052 U	< 0.000052 U	< 0.000052 U	0.000069 J	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.00010 U	< 0.00010 U
Cadmium	mg/L	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	0.00011 J	< 0.000075 U	< 0.000075 U
Chromium, Total	mg/L	0.00076	0.0011	0.00081	0.00066	0.00090	0.00059	0.00055	0.0024	0.00054	0.00065
Cobalt	mg/L	0.00033 J	0.00044 J	0.00052	0.00048 J	0.00030 J	0.00033 J	0.00033 J	0.00089	0.00026 J	0.00032 J
Fluoride	mg/L	0.48	0.56	0.67	0.38	0.54	0.65	0.75	0.74	0.54	0.60
Lead	mg/L	0.00019 J	0.00042 J	0.00017 J	0.00077	0.00045 J	0.00014 J	< 0.00010 U	0.00052 J	0.00090	0.00032 J
Lithium	mg/L	0.035	0.033	0.036	0.028	0.027	0.043	0.036	0.016	0.022	0.037
Mercury	mg/L	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00000016 U	0.00000029 J	< 0.00000016 U	0.0000025	0.0000014	< 0.00000016 U
Molybdenum	mg/L	0.00079 J	0.0031	0.00077 J	0.00093 J	0.00078 J	0.00052 J	0.00042 J	0.013	0.00092 J	0.00048 J
Radium 226 and 228	pCi/L	0.656	< 0.918 U	1.56	0.58	1.3	1.3	1.88	< 1 U	< 1.02 U	1.27
Radium-226	pCi/L	< 0.185 U	0.315	0.334	< 0.53 U	< 0.357 U	0.448	0.427	< 0.137 U	< 0.364 U	0.419
Radium-228	pCi/L	< 0.571 U	< 0.918 U	1.22	0.58	1.3	< 0.849 U	1.46	< 1 U	< 1.02 U	0.851
Selenium	mg/L	0.00014 J	0.00021 J	0.00013 J	0.00011 J	0.00021 J	0.00018 J	0.00017 J	0.0015	0.00017 J	0.00016 J
Thallium	mg/L	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U
Total Suspended Solids	mg/L	9.0	9.0	12	10	14	4.0	< 4.1 U	< 4.2 U	15	13
Michigan CCR Part 115											
Copper	mg/L	0.00088	0.0016	0.00049	0.0010	0.0011	0.00033	< 0.00020 U	0.0063	0.0021	0.00020 J
Iron	mg/L	6.6	3.5	3.8	4.1	4.8	4.7	4.4	1.9	4.4	4.7
Nickel	mg/L	0.0011 J	0.0020	0.0015	0.0011 J	0.0012	0.00092 J	0.00085 J	0.0086	0.00079 J	0.00081 J
Silver	mg/L	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U
Vanadium	mg/L	0.00084 J	0.0013	0.00089 J	0.00077 J	0.00065 J	0.00060 J	0.00051 J	0.00094 J	0.00063 J	0.00052 J
Zinc	mg/L	0.0026	0.0059	0.027	0.044	0.0087	0.0029	0.0020	0.074	0.048	0.0076
Additional Parameters											
Bicarbonate Alkalinity	mg/L	530	460	500	480	500	550	530	300	510	510
Carbonate Alkalinity	mg/L	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.16 U
Magnesium	mg/L	30	24	24	24	24	27	25	19	22	23
Potassium	mg/L	15	16	16	12	12	17	15	8.8	11	15
Sodium	mg/L	59	39	56	49	47	56	48	22	38	43
Total Alkalinity	mg/L	530	460	500	480	500	550	530	300	510	510

Notes:

ug/l - micrograms per liter.

mg/l = milligrams per liter.

su - standard pH units (pH is a field parameter)

pCi/L = picocuries per liter.

All metals were analyzed as total unless otherwise indicated.

Qualifiers:

U The analyte was analyzed for, but was not detected at, a level greater than or equal to the level of the adjusted reporting limit (RL) for the sample and method.

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J– Same as J, and the reported concentration is potentially biased low.

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R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Appendix D
Analytical Data Reporting Tables
Former J.B. Sims Generating Station
Renew Harbor Island

Sample Location:		MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18
Compliance Phase:		Background	Background	Background	Background	Background	Background	Background	Background	Background	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment
Sample Date:		11/30/2022	1/5/2023	2/8/2023	3/13/2023	4/18/2023	5/22/2023	6/27/2023	8/8/2023	10/24/2023	2/13/2024	4/10/2024	7/17/2024	10/16/2024	2/26/2025	4/21/2025	8/12/2025	10/22/2025	2/19/2026	4/22/2026	8/11/2026
Sample Type:		Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
Unit:		Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2
Sample Matrix:		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Constituent	**Unit**																				
Field Parameters																					
Conductivity	mS/cm	1.54	2.06	1.788	1.554	1.4	1.52	1.62	1.46	1.6	1.51	1.69	1.64	1.69	1.85	1.49	1.304	1.067	1.69	0.99	1.42
Dissolved Oxygen	mg/L	0.09	0.19	0.72	0.22	0.34	0.15	0.29	0.05	0.3	0.05	0.4	0.04	0.02	0.47	0.42	0.16	0.25	0.96	1.63	0.42
Oxidation Reduction Potential	mV	66.8	-126.8	-70.8	-69.8	-31.3	-22.1	-88.4	-92.8	-80	132.6	-114.3	-143.3	-123.7	79.4	-86.7	-138.7	-101.1	-84.4	-80.9	-81.2
pH	su	7.05	7.02	7.2	7.12	7.19	7.16	7.16	7.25	7.16	7.27	7.18	7.31	7.17	7.18	7.27	7.31	7.29	7.2	7.1	6.96
Temperature	deg c	9.9	6.5	5.2	3.8	6.3	11.3	17.2	17.8	15.3	5.5	7	17.3	16	5.3	7.3	18.7	15.9	6.5	10.7	19.6
Turbidity	NTU	0.02	0.02	0.09	0.02	0.52	0.02	0.02	7.06	0.59	0.02	0.02	4.07	1.39	4.55	2.18	0.02	5.24	0.02	0.86	1.99
Appendix III																					
Boron	mg/L	2.2	2.0	2.3	1.9	1.8	2.6	2.7 J+	2.3	3	3.5	4.0	3.9	3.9	4.4	3.7	4.2	4.4	3.1	1.5	5.2 J+
Calcium	mg/L	450	410	380	330	270	340	240	250	360	370	350	330	330	410	270	250	240	330	190	250
Chloride	mg/L	28	26	22	19	16	19	24	27	22	24	16	27	24	32	19	26	23	13	16	34
Fluoride	mg/L	3.5	3.3	3.5	3.8	3.8	3.9	4.4	5.1	4.5	3.4	2.7	4.5	4.8	3.2	3.3	4.7	5.0	3.5	3.5	3.6
Sulfate (as SO4)	mg/L	1200	1200	480	740	660	780	760	620	800	980	790	750	740	1100	770	570	370	740	300	500
Total Dissolved Solids	mg/L	1800	1700	1600	1200	1200	1400	1400	1100	1400	1400	1400	1300	1300	1600	1200	1100	860	930	740	1100
Appendix IV																					
Antimony	mg/L	0.00012 J	0.00013 J	0.00032 J	0.00014 J	0.00030	< 0.00050 U	0.00012 J	< 0.00010 U	0.00013 J	< 0.00050 U	0.00018 J	0.00011 J	0.00012 J	0.00023 J	0.00017 J	0.00010 J	0.0010	0.00041	0.0011	0.00032
Arsenic	mg/L	0.029	0.020	0.023	0.019	0.021	0.015	0.029 J+	0.030	0.041	0.024	0.029	0.031	0.044	0.028	0.027	0.036	0.033	0.020	0.0097	0.033
Barium	mg/L	0.021	0.018	0.015	0.012	0.013	0.023	0.024	0.023	0.025	0.015	0.014	0.022	0.028	0.018	0.013	0.021	0.034	0.027	0.088	0.039
Beryllium	mg/L	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 UJ	< 0.000052 U	< 0.000052 U	< 0.000052 U	0.000059 J	< 0.000052 U	< 0.000052 U	0.000053 J	< 0.000052 U	< 0.000052 U	0.000054 J	0.000060 J	< 0.00010 U	< 0.00010 U
Cadmium	mg/L	0.00022 J	0.00030	< 0.00016 U	0.00018 J	0.00018 J	0.00044 J	0.00030 J+	0.000089 J	< 0.000075 U	< 0.00038 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	0.00011 J	0.00010 J	< 0.000075 U	0.00090	0.00072	0.0010	0.0011
Chromium, Total	mg/L	< 0.00018 U	< 0.00018 U	< 0.00018 U	< 0.00018 U	< 0.00018 U	0.00025 J+	< 0.00020 U	< 0.00020 U	< 0.0002 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	0.00063	< 0.00020 U	< 0.00020 U	< 0.00020 U	0.00088	0.00023 J
Cobalt	mg/L	0.0060	0.0054	0.0048	0.0032	0.0020	0.0019	0.0032 J+	0.0023	0.0017	0.0023	0.0020	0.0014	0.0016	0.0023	0.0019	0.0011	0.0017	0.0017	0.00080	0.0026
Fluoride	mg/L	3.5	3.3	3.5	3.8	3.8	3.9	4.4	5.1	4.5	3.4	2.7	4.5	4.8	3.2	3.3	4.7	5.0	3.5	3.5	3.6
Lead	mg/L	< 0.00022 U	< 0.00022 U	< 0.0011 U	< 0.00022 U	< 0.00022 U	< 0.00050 U	0.00016 J+	0.00032 J	0.00014 J	< 0.00050 U	< 0.00010 U	0.00015 J	0.00014 J	< 0.00010 U	< 0.00010 U	0.00025 J	0.00026 J	< 0.00010 U	< 0.00010 U	0.00012 J
Lithium	mg/L	0.044	0.042	0.029	0.027	0.026	0.029	0.041	0.045	0.039	0.020	0.030	0.041	0.042	0.032	0.028	0.043	0.038	0.037	0.037	0.058
Mercury	mg/L	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00000016 U	0.00000086	0.00000099	0.00000097	0.0000012	0.0000021 J-
Molybdenum	mg/L	0.013	0.012	0.011	0.013	0.014	0.0090	0.019 J+	0.021	0.02	0.011	0.013	0.018	0.021	0.015	0.014	0.019	0.028	0.016	0.020	0.023
Radium 226 and 228	pCi/L	0.618	< 0.478 U	< 0.501 U	< 0.592 U	1.27	< 0.701 UJ	< 0.872 U	0.73	< 0.625 U	< 0.578 U	0.927	< 0.621 U	1.01	0.93	< 0.555 U	0.817	1.16	< 0.603 U	0.739	0.609 J-
Radium-226	pCi/L	< 0.131 U	< 0.0981 U	< 0.083 U	< 0.202 U	< 0.137 U	< 0.122 UJ	< 0.124 U	< 0.105 U	< 0.209 U	< 0.114 U	< 0.191 U	< 0.1 U	< 0.149 U	< 0.23 U	< 0.352 U	< 0.459 U	< 0.285 U	< 0.188 U	< 0.111 U	< 0.231 UJ
Radium-228	pCi/L	0.584	< 0.478 U	< 0.501 U	< 0.592 U	1.24	< 0.701 UJ	< 0.872 U	0.713	< 0.625 U	< 0.578 U	0.906	< 0.621 U	0.991	0.83	< 0.555 U	< 0.562 U	1.16	< 0.603 U	0.651	0.609
Selenium	mg/L	0.00031 J	0.00041 J	0.00034 J	0.00086	0.00079	0.00016 J	0.00018 J+	0.00016 J	0.00082	0.0012	0.0020	0.00016 J	0.00014 J	0.00053	0.0011	0.00015 J	0.0023	0.0017	0.0066	0.00033 J
Thallium	mg/L	< 0.000075 U	< 0.000075 U	< 0.00038 U	< 0.000075 U	< 0.000075 U	< 0.00038 U	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	< 0.00038 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	0.00016 J	< 0.000075 U	< 0.000075 U	0.00016 J
Total Suspended Solids	mg/L	12	4.0	13	2.0 J	6.0	6.0	11	7.9	11	< 4.0 U	100	15	14	4.0	11	12	9.3	11	4.0	12
Michigan CCR Part 115																					
Copper	mg/L	0.00043	0.00043	0.00043	0.00043	0.00062	0.00055	0.00088	0.0015	0.00047	0.00033	0.00048	0.00062	0.0017	0.00039	0.00047	0.00087	0.0021	0.00092	0.0041	0.0015
Iron	mg/L	10	8.6	6.8	5.4	4.3	5.3	5.8	4.9	7	7.7	7.0	6.2	6.9	8.1	5.8	5.3	3.3	5.0	1.8	5.2
Nickel	mg/L	0.011	0.011	0.0094	0.0074	0.0051	0.0050	0.0075	0.0049	0.0047	0.0056	0.0053	0.0037	0.0049	0.0058	0.0056	0.0032	0.010	0.0059	0.0085	0.0079
Silver	mg/L	< 0.000050 U	< 0.000050 U	< 0.00025 U	< 0.000050 U	< 0.000050 U	< 0.00025 U	< 0.000050 U	< 0.000050 U	< 0.00005 U	< 0.00025 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U
Vanadium	mg/L	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00028 U	0.00036 J	< 0.00028 U	0.00031 J	< 0.00028 U
Zinc	mg/L	0.074	0.088	0.060	0.068	0.043	0.038	0.061	0.028	0.054	0.042	0.038	0.017	0.031	0.045	0.048	0.016	0.21	0.13	0.14	0.16
Additional Parameters																					
Bicarbonate Alkalinity	mg/L	160	110	100	130	140	130	150	200	200	120	120	180	220	100	120	220	270	160	230	250
Carbonate Alkalinity	mg/L	< 1.6 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.16 U
Magnesium	mg/L	37	36	33	26	22	29	28	21	30	42	39	33	35	50	36	30	26	40	17	27
Potassium	mg/L	11	12	11	9.4	8.7	10	11	11	11	8.9	9.1	10	10	8.4	7.1	8.9	8.6	8.1	5.7	9.5
Sodium	mg/L	21	20	21	17	15	18	20	20	20	24	23	23	23	31	22	22	22	19	13	29
Total Alkalinity	mg/L	160	110	100	130	140	130	150	200	200	120	120	180	220	100	120	220	270	160	230	250

Notes:

ug/l - micrograms per liter.

mg/l = milligrams per liter.

su - standard pH units (pH is a field parameter)

pCi/L = picocuries per liter.

All metals were analyzed as total unless otherwise indicated.

Qualifiers:

U The analyte was analyzed for, but was not detected at, a level greater than or equal to the level of the adjusted reporting limit (RL) for the sample and method.

J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to the concentration of the analyte being below the RL).

J+ Same as J, and the reported concentration is potentially biased high.

J– Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Appendix D
Analytical Data Reporting Tables
Former J.B. Sims Generating Station
Renew Harbor Island

Sample Location:		MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19
Compliance Phase:		Background	Background	Background	Background	Background	Background	Background	Background	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment
Sample Date:		11/30/2022	1/3/2023	2/8/2023	3/13/2023	4/18/2023	5/22/2023	6/28/2023	8/7/2023	10/24/2023	2/13/2024	4/8/2024	7/18/2024	10/16/2024	2/26/2025	4/21/2025	8/12/2025	10/22/2025	2/18/2026	4/23/2026	8/12/2026
Sample Type:		Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
Unit:		Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2
Sample Matrix:		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Constituent	**Unit**																				
Field Parameters																					
Conductivity	mS/cm	1.91	2.56	2.493	2.196	2.31	2.29	1.98	2.04	2.2	1.77	2.11	2.04	1.97	1.99	1.162	1.712	1.648	2	1.82	1.98
Dissolved Oxygen	mg/L	0.12	0.41	1.03	0.13	0.02	0.09	0.32	0.4	0.26	0.05	0.06	0.02	0.3	0.32	0.27	0.35	0.14	0.89	0.12	0.13
Oxidation Reduction Potential	mV	68.7	-134.8	-70.2	-77.1	-7.9	-118.4	-112.9	-36.8	-109.1	141.9	19.4	-152	-71.9	91.2	-19.3	-93.6	-35.7	-28.8	NA	-63.3
pH	su	7	6.39	6.98	6.9	6.92	7.07	6.9	6.82	6.88	6.73	6.85	6.85	6.75	6.7	6.74	6.81	6.67	6.63	6.96	6.34
Temperature	deg c	9.2	7.3	6.3	5.7	8	11.4	13.9	16.7	15.8	5.9	8.5	16.6	15.9	5.2	7.6	15.8	15	6	9.3	16.9
Turbidity	NTU	0.02	1.6	2.27	0.02	2.59	0.02	0.02	0.02	0.02	2.48	0.02	0.02	0.02	2.98	0.02	0.02	3.82	0.02	2.37	0.26
Appendix III																					
Boron	mg/L	2.6	2.0	2.2	1.5	1.6	1.8	2.3 J+	1.9	2.6	1.8	1.5	2.0	2.5	2.4	1.6	2.7	3.4	2.3	1.7	2.7
Calcium	mg/L	530	510	550	510	450	480	460	360	470	490	480	440	400	470	370	450	410	380	380	400
Chloride	mg/L	75	64	66	46	42	40	37	38	50	39	23	34	40	27	21	37	37	22	17	25
Fluoride	mg/L	2.2	2.3	1.9	1.7	1.8	1.9	1.9	2.2	2	1.6	1.5	1.7	2.1	1.4	1.5	1.9	2.0	1.5	1.8	2.0
Sulfate (as SO4)	mg/L	1300	1300	600	1100	1200	1100	800	830	1100	1000	1000	940	850	960	890	910	860	800	770	940
Total Dissolved Solids	mg/L	2200 J-	2200	2200	2100	2000	2000	1600	1600	1900	1800	1700	1700	1600	1700	1600	1800	1600	1400	1500	1700
Appendix IV																					
Antimony	mg/L	< 0.000050 U	< 0.000050 U	< 0.00025 U	< 0.000050 U	0.00072 J	< 0.00050 U	< 0.00010 U	< 0.00010 U	< 0.0001 U	< 0.00050 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	0.00046	0.00019 J	0.00011 J	0.00043	0.00062	< 0.00010 U	< 0.00010 U
Arsenic	mg/L	0.0061	0.0055	0.0055	0.0043	0.0032	0.0031	0.0069 J+	0.0073	0.0067	0.0026	0.0044	0.0065	0.0069	0.0042	0.0037	0.0024	0.0026	0.0012	0.0010	0.0023
Barium	mg/L	0.046	0.050	0.047	0.036	0.030	0.040	0.040	0.037	0.044	0.037	0.034	0.036	0.039	0.036	0.033	0.039	0.042	0.031	0.028	0.033
Beryllium	mg/L	< 0.000052 U	0.000063 J	< 0.00026 U	0.000061 J	0.000057 J	0.000071 J	0.000077 J+	0.000072 J	< 0.000052 U	0.000086 J	0.000085 J	0.000085 J	0.00011 J	0.000058 J	0.00012 J	0.000098 J	0.00011 J	0.00011 J	0.00015 J	0.00011 J
Cadmium	mg/L	< 0.000032 U	< 0.000032 U	< 0.00016 U	< 0.000032 U	< 0.00016 U	< 0.00038 U	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	< 0.00038 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	0.00030	0.00025	< 0.000075 U	< 0.000075 U
Chromium, Total	mg/L	0.00027	0.00053	< 0.00088 U	0.00037	< 0.00018 U	< 0.00020 U	0.00031	0.00029	< 0.0002 U	< 0.00020 U	0.00025	0.00027	0.00027	0.00020 J	0.00027	0.00022 J	0.00024 J	0.00020 J	< 0.00020 U	0.00024 J
Cobalt	mg/L	0.00046 J	0.00069	0.00078 J	0.00096	0.00069	0.00042 J	0.00050 J+	0.00044 J	0.00013 J	0.00023 J	0.00046 J	< 0.00010 U	0.00021 J	0.0012	0.00092	0.00018 J	0.0013	0.00066	0.00046 J	< 0.00010 U
Fluoride	mg/L	2.2	2.3	1.9	1.7	1.8	1.9	1.9	2.2	2	1.6	1.5	1.7	2.1	1.4	1.5	1.9	2.0	1.5	1.8	2.0
Lead	mg/L	< 0.00022 U	< 0.00022 U	< 0.0011 U	< 0.0011 U	< 0.0011 U	< 0.00050 U	< 0.00010 UJ	< 0.00010 U	< 0.0001 U	< 0.00050 U	< 0.00010 U	< 0.00050 U	< 0.00050 U	< 0.00010 U	< 0.00010 U	< 0.00050 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U
Lithium	mg/L	0.099	0.11	0.099	0.090	0.11	0.085	0.090	0.098	0.089	0.073	0.074	0.090	0.087	0.084	0.073	0.088	0.085	0.078	0.072	0.081
Mercury	mg/L	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00000016 U	0.00000026 J	< 0.00000016 U	0.00000018 J	< 0.00000016 U	< 0.00000016 U
Molybdenum	mg/L	0.013	0.011	0.0095	0.011	0.0090	0.0051	0.012 J+	0.013	0.01	0.0039	0.0099	0.0081	0.013	0.019	0.019	0.0097	0.021	0.019	0.0085	0.011
Radium 226 and 228	pCi/L	< 0.589 U	0.626	1.03	1.08	0.933	0.904	< 0.561 U	1.17	< 1.13 U	0.779	1.32	< 0.528 U	< 0.592 U	< 0.7 U	< 0.708 U	1.14	< 0.928 U	0.88	< 0.69 U	1.07
Radium-226	pCi/L	0.235	0.222	0.266	0.171	< 0.183 U	0.216	< 0.129 U	0.179	< 0.156 U	0.219	< 0.184 U	0.157	0.221	< 0.29 U	< 0.284 U	< 0.388 U	0.318	< 0.127 U	< 0.173 U	0.331
Radium-228	pCi/L	< 0.589 U	< 0.503 U	0.761	0.911	0.818	0.688	< 0.561 U	0.993	< 1.13 U	0.561	1.15	< 0.528 U	< 0.592 U	< 0.7 U	< 0.708 U	0.82	< 0.928 U	0.773	< 0.69 U	0.736
Selenium	mg/L	< 0.00022 U	< 0.00022 U	< 0.0011 U	< 0.00022 U	< 0.00022 U	< 0.00010 U	< 0.00010 UJ	< 0.00010 U	< 0.0001 U	0.00012 J	< 0.00010 U	0.00012 J	0.00020 J	0.00013 J	0.00015 J	< 0.00010 U	0.00070	0.0036	0.00014 J	0.00011 J
Thallium	mg/L	< 0.000075 U	< 0.000075 U	< 0.00038 U	< 0.00038 U	< 0.00038 U	< 0.00038 U	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	< 0.00038 U	< 0.000075 U	< 0.00038 U	< 0.00038 U	< 0.000075 U	< 0.000075 U	< 0.00038 U	0.00012 J	< 0.000075 U	< 0.000075 U	< 0.000075 U
Total Suspended Solids	mg/L	27	25	16	6.0	23	19	29	33	26	17	6.0	34	37	15	18	22	14	< 4.2 U	7.0	22
Michigan CCR Part 115																					
Copper	mg/L	< 0.00020 U	< 0.00020 U	< 0.0010 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.0002 U	< 0.00020 U	0.00022 J	0.00035	< 0.00020 U	< 0.00020 U	< 0.00020 U	0.00040	0.00023 J	< 0.00020 U	< 0.00020 U	< 0.00020 U
Iron	mg/L	15	18	16	13	12	13	16	15	24	20	17	21	21	17	14	14	8.2	8.6	8.3	11
Nickel	mg/L	0.0024	0.0028	< 0.0032 U	0.0024	0.0017	0.0011 J	0.0015	0.0015	0.0012	0.0012	0.0025	0.017	0.0039	0.0026	0.0029	0.0033	0.014	0.0051	0.0024	0.0017
Silver	mg/L	< 0.000050 U	< 0.000050 U	< 0.00025 U	< 0.000050 U	< 0.00025 U	< 0.00025 U	< 0.000050 U	< 0.000050 U	< 0.00005 U	< 0.00025 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U
Vanadium	mg/L	< 0.00062 U	< 0.00062 U	< 0.0031 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	0.00067 J	0.00055 J	0.00094 J	0.00060 J	0.00041 J	0.00031 J
Zinc	mg/L	0.0023	< 0.0012 U	< 0.0059 U	< 0.0012 U	0.0042	< 0.0012 U	< 0.0012 U	< 0.0012 U	< 0.0012 U	< 0.0012 U	< 0.0012 U	< 0.0012 U	0.0019	0.0046	0.0042	0.0017	0.10	0.079	0.031	0.0075
Additional Parameters																					
Bicarbonate Alkalinity	mg/L	330	340	310	280	240	260	340	330	270	290	270	300	260	280	280	300	270	280	270	240
Carbonate Alkalinity	mg/L	< 1.6 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.16 U
Magnesium	mg/L	49	42	45	38	43	45	32	30	39	39	35	33	36	37	31	39	38	33	33	39
Potassium	mg/L	18	22	16	20	16	16	15	17	16	15	14	14	14	15	13	15	15	12	12	13
Sodium	mg/L	48	40	44	37	38	38	36	31	37	33	30	29	30	32	25	32	32	26	21	25
Total Alkalinity	mg/L	330	340	310	280	240	260	340	330	270	290	270	300	260	280	280	300	270	280	270	240

Notes:

ug/l - micrograms per liter.

mg/l = milligrams per liter.

su - standard pH units (pH is a field parameter)

pCi/L = picocuries per liter.

All metals were analyzed as total unless otherwise indicated.

Qualifiers:

U The analyte was analyzed for, but was not detected at, a level greater than or equal to the level of the adjusted reporting limit (RL) for the sample and method.

J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to the concentration of the analyte being below the RL).

J+ Same as J, and the reported concentration is potentially biased high.

J– Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Appendix D
Analytical Data Reporting Tables
Former J.B. Sims Generating Station
Renew Harbor Island

Sample Location:		MW-20	MW-20	MW-20	MW-20	MW-20	MW-20	MW-20	MW-20	MW-20	MW-20	MW-20	MW-20	MW-20	MW-20	MW-20	MW-20	MW-20	MW-20	MW-20	MW-20
Compliance Phase:		Background	Background	Background	Background	Background	Background	Background	Background	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment
Sample Date:		11/30/2022	1/4/2023	2/7/2023	3/13/2023	4/18/2023	5/23/2023	6/28/2023	8/7/2023	10/24/2023	2/13/2024	4/8/2024	7/17/2024	10/16/2024	2/26/2025	4/21/2025	8/13/2025	10/22/2025	2/19/2026	4/22/2026	8/11/2026
Sample Type:		Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
Unit:		Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2
Sample Matrix:		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Constituent	**Unit**																				
Field Parameters																					
Conductivity	mS/cm	1.2	1.24	1.232	1.218	1.37	1.41	1.17	1.18	1.26	1.17	1.45	1.12	1.09	0.95	0.64	0.966	0.995	1.07	1.05	1.11
Dissolved Oxygen	mg/L	0.24	0.1	0.02	0.12	0.16	0.05	0.32	0.26	0.72	0.21	0.03	0.01	0.83	0.02	0.26	0.13	0.12	0.14	0.28	0.13
Oxidation Reduction Potential	mV	-142	-148.2	-153.3	-153	-162.4	-159.7	-174.4	-105.9	-179.7	-128.7	-117.8	-178.3	-193.1	-38.1	-113.7	-165.2	-124.4	-135.1	-149.5	-139.6
pH	su	7.23	7.5	7.29	7.2	7.44	7.45	7.3	7.14	7.33	7.45	7.45	7.34	7.34	7.44	7.43	7.31	7.21	7.35	7.24	7.08
Temperature	deg c	9.7	7.2	6.7	5.7	7.2	10.8	13.1	19.6	14.8	6.5	8.3	17	16.2	6.3	7.8	17.8	15.6	7.1	10.1	18
Turbidity	NTU	0.02	0.02	1.91	0.02	0.02	0.02	0.02	0.02	0.02	1.14	0.02	0.02	2.11	2.04	0.02	2.03	7.33	0.02	0.02	0.43
Appendix III																					
Boron	mg/L	1.1	0.83	0.87	0.82	0.80	0.92	1.1 J+	1.1	1.1	0.72	0.76	1.1	1.3	0.82	0.87	1.4	1.4	1.0	0.87	1.3
Calcium	mg/L	130	120	140	170	130	130	58	110	130	120	140	120	120	110	110	150	150	130	140	150
Chloride	mg/L	70	66	62	60	88	92	71	70	70	41	77	62	44	29	29	35	33	23	20	37
Fluoride	mg/L	0.55	0.26	0.24	0.26	0.21	0.21	0.22	0.23	0.23	0.25	0.27	0.29	0.12	0.22	0.29	0.30	0.25	0.25	0.20	0.23
Sulfate (as SO4)	mg/L	42	78	120	110	85	76	30	19	33	78	62	18	24	38	52	50	88	41	54	18
Total Dissolved Solids	mg/L	660	660	690	680	760	770	650	570	650	640	840	640	560	510	540	620	660	340	630	630
Appendix IV																					
Antimony	mg/L	0.000096 J	0.000054 J	0.000066 J	0.000062 J	0.00016 J	< 0.00010 U	0.00011 J	0.00014 J	< 0.0001 U	< 0.00010 U	< 0.00010 U	0.00010 J	0.00012 J	0.00012 J	< 0.00010 U	< 0.00010 U	0.00065	< 0.00010 U	< 0.00010 U	0.00011 J
Arsenic	mg/L	0.0015	0.0012	0.0012	0.0012	0.0013	0.0015	0.0016 J+	0.0017	0.0017	0.0011	0.0013	0.0018	0.0019	0.0010	0.0011	0.0019	0.0015	0.0011	0.0012	0.0019
Barium	mg/L	0.94	0.61	0.47	0.37	0.31	0.42	0.43	0.49	0.53	0.42	0.45	0.46	0.82	0.48	0.46	0.67	0.54	0.31	0.33	0.45
Beryllium	mg/L	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 UJ	< 0.000052 U	< 0.000052 U	0.000059 J	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.00010 U	< 0.00010 U
Cadmium	mg/L	< 0.000032 U	< 0.000032 U	< 0.000032 U	< 0.000032 U	< 0.000032 U	< 0.000075 U	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	0.00039	< 0.000075 U	< 0.000075 U	< 0.000075 U
Chromium, Total	mg/L	0.00019 J	< 0.00018 U	0.00025	0.00029	0.00021 J	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.0002 U	0.00022 J	0.00026	0.00021 J	0.00022 J	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	0.0019	< 0.00020 U	0.00027
Cobalt	mg/L	0.0013	0.0013	0.0016	0.0016	0.0014	0.0013	0.0014 J+	0.0011	0.00095	0.0011	0.0011	0.00089	0.0010	0.00069	0.00080	0.00091	0.0018	0.0011	0.00097	0.0014
Fluoride	mg/L	0.55	0.26	0.24	0.26	0.21	0.21	0.22	0.23	0.23	0.25	0.27	0.29	0.12	0.22	0.29	0.30	0.25	0.25	0.20	0.23
Lead	mg/L	0.0023	0.0016	0.0016	0.0016	0.0028	0.0023	0.0028 J+	0.0023	0.0018	0.0013	0.0014	0.0020	0.0017	0.0018	0.0012	0.0022	0.0078	0.0022	0.0013	0.0032
Lithium	mg/L	0.074	0.065	0.049	0.055	0.060	0.062	0.083	0.079	0.071	0.029	0.053	0.064	0.058	0.035	0.034	0.062	0.052	0.039	0.038	0.058
Mercury	mg/L	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	0.0000051	0.0000053	0.0000019	0.000011	0.0000075	0.0000048
Molybdenum	mg/L	0.0041	0.0039	0.0041	0.0038	0.0036	0.0048	0.0048 J+	0.0051	0.0047	0.0045	0.0033	0.0048	0.0058	0.0052	0.0035	0.0040	0.0046	0.0031	0.0024	0.0036
Radium 226 and 228	pCi/L	1.47	0.822 J+	< 0.499 U	< 0.536 U	0.591	< 0.59 U	< 0.467 U	1.08	< 0.581 U	< 0.894 U	1.31	< 0.58 U	1	--	0.847	0.486	< 1.18 U	0.652	< 0.667 U	< 0.507 U
Radium-226	pCi/L	< 0.153 U	0.198	0.134	0.161	< 0.166 U	0.193	< 0.122 U	0.118	< 0.19 U	0.195	< 0.141 U	0.152	0.227	--	< 0.326 U	< 0.306 U	< 0.435 U	0.151	0.222	0.34
Radium-228	pCi/L	1.32	0.624 J+	< 0.499 U	< 0.536 U	0.541	< 0.59 U	< 0.467 U	0.958	< 0.581 U	< 0.894 U	1.18	< 0.58 U	0.775	--	0.746	< 0.479 U	< 1.18 U	< 0.612 U	< 0.667 U	< 0.507 U
Selenium	mg/L	< 0.00022 U	< 0.00022 U	< 0.00022 U	< 0.00022 U	< 0.00022 U	0.00013 J	0.00011 J+	0.00010 J	0.00011 J	0.00026 J	0.00013 J	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	0.00043 J	0.00010 J	< 0.00010 U	< 0.00010 U
Thallium	mg/L	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	0.00011 J	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U
Total Suspended Solids	mg/L	40	42	33	37	44	42	37	37	38	33	43	34	38	26	29	41	24	4.1	24	31
Michigan CCR Part 115																					
Copper	mg/L	0.00034	0.00023 J	0.00023 J	< 0.00020 U	0.00024 J	0.00029	0.00036	0.00053	0.00025	0.00040	0.00034	0.00053	0.00082	< 0.00020 U	0.00020 J	0.00025	0.0033	0.00057	0.00058	0.0012
Iron	mg/L	21	19	18	19	21	22	18	16	20	18	22	16	18	14	14	19	12	15	12	13
Nickel	mg/L	0.0091	0.0091	0.0095	0.0099	0.0092	0.0094	0.0098	0.0078	0.0066	0.0061	0.0077	0.0080	0.0067	0.0045	0.0063	0.0084	0.034	0.0098	0.0095	0.012
Silver	mg/L	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.00005 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U
Vanadium	mg/L	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00028 U	< 0.00028 U	< 0.00028 U	< 0.00028 U	< 0.00028 U
Zinc	mg/L	0.071	0.024	0.028	0.029	0.060	0.028	0.030	0.025	0.024	0.016	0.024	0.020	0.056	0.015	0.013	0.058	0.11	0.044	0.040	0.031
Additional Parameters																					
Bicarbonate Alkalinity	mg/L	540	470	470	460	520	540	470	460	560	460	570	470	500	430	440	460	480	460	500	530
Carbonate Alkalinity	mg/L	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.16 U
Magnesium	mg/L	57	53	52	56	57	62	47	48	53	45	55	41	41	36	37	40	43	40	40	41
Potassium	mg/L	13	13	11	12	13	12	13	13	12	8.5	11	10	9.1	6.9	6.9	7.0	7.7	6.4	6.6	5.9
Sodium	mg/L	65	59	57	56	63	79	67	57	61	48	80	57	47	43	41	37	45	38	39	39
Total Alkalinity	mg/L	540	470	470	460	520	540	470	460	560	460	570	470	500	430	440	460	480	460	500	530

Notes:

ug/l - micrograms per liter.

mg/l = milligrams per liter.

su - standard pH units (pH is a field parameter)

pCi/L = picocuries per liter.

All metals were analyzed as total unless otherwise indicated.

Qualifiers:

U The analyte was analyzed for, but was not detected at, a level greater than or equal to the level of the adjusted reporting limit (RL) for the sample and method.

J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to the concentration of the analyte being below the RL).

J+ Same as J, and the reported concentration is potentially biased high.

J– Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Appendix D
Analytical Data Reporting Tables
Former J.B. Sims Generating Station
Renew Harbor Island

Sample Location:		MW-27	MW-27	MW-27	MW-27	MW-27	MW-27	MW-27	MW-27	MW-27	MW-27	MW-27	MW-27	MW-27	MW-27	MW-27	MW-27	MW-27	MW-27	MW-27	MW-27	MW-27
Compliance Phase:		Background	Background	Background	Background	Background	Background	Background	Background	Background	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment
Sample Date:		11/30/2022	1/5/2023	2/7/2023	3/13/2023	4/18/2023	5/22/2023	6/27/2023	8/7/2023	10/23/2023	2/13/2024	4/8/2024	7/18/2024	10/17/2024	2/27/2025	4/21/2025	4/22/2025	8/12/2025	10/23/2025	2/17/2026	4/22/2026
Sample Type:		Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
Unit:		Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2
Sample Matrix:		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Constituent	**Unit**																				
Field Parameters																					
Conductivity	mS/cm	2.46	2.01	1.651	1.047	1.04	1.65	2.5	2.57	2.99	1.65	1.06	2.79	3.47	2.32	0.955	NA	3.36	3.307	2.03	0.7
Dissolved Oxygen	mg/L	1.35	0.17	0.24	0.93	0.07	0.19	0.04	0.23	0.05	1.64	0.12	0.03	0.24	1.5	0.29	NA	0.18	0.04	0.29	0.19
Oxidation Reduction Potential	mV	-87.3	-137.6	-79.1	-134.3	-52.1	-80.9	-89	-104.5	-191.3	-62.8	-140.2	-129.9	-80.3	155.8	-46.2	NA	-53	-101.9	-133.1	-127.5
pH	su	6.86	6.92	6.81	6.95	6.81	6.77	6.86	6.78	6.77	6.93	6.99	6.87	6.66	6.79	6.89	NA	6.82	6.83	6.89	7.01
Temperature	deg c	8.7	6.7	5	4.5	7.2	11.7	16.5	20.8	15.2	5.6	7.5	19.6	16.9	4	7.6	NA	20.3	16.3	5.5	12.2
Turbidity	NTU	0.02	0.73	1.33	0.02	4.08	3.32	3.55	8.15	9.71	3.01	2.31	7.9	9.44	6.08	1.77	NA	1.72	7.75	0.02	0.02
Appendix III																					
Boron	mg/L	0.31	0.17	0.16	0.14	0.14	0.20	0.45 J+	0.44	0.32	0.16	0.18	0.44	0.50	0.21	0.27	--	0.54	0.54	0.25	0.25
Calcium	mg/L	200	180	180	180	100	130	180	150	190	160	130	170	170	210	130	--	170	190	160	61
Chloride	mg/L	120	84	69	60	38	52	110	100	110	44	17	89	120	97	86	--	120	120	130	9.3
Fluoride	mg/L	0.37	0.29	0.31	0.41	0.42	0.35	0.36	0.41	0.43	0.40	0.71	0.48	0.23	0.25	0.44	--	0.58	0.55	0.39	0.52
Sulfate (as SO4)	mg/L	6.8	41	58	47	14	1.8 J	0.56 J	3.0	2.4 J	72	41	2.3 J	1.4 J	40	27	--	1.0 J	2.9 J	86	10
Total Dissolved Solids	mg/L	920	710	790	620	460	590	790	690	870	1300	560	890	910	900	640	--	900	930	860	340
Appendix IV																					
Antimony	mg/L	0.00013 J	0.000075 J	0.000099 J	0.000060 J	0.00028	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.0001 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	0.00010 J	0.00012 J	< 0.00010 U	--	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U
Arsenic	mg/L	0.00086	0.00070	0.00069	0.00069	0.00095	0.00096	0.0010 J+	0.0012	0.0011	0.00082	0.0012	0.0011	0.0012	0.00070	0.0011	--	0.0013	0.0012	0.00082	0.00062
Barium	mg/L	0.21	0.17	0.16	0.12	0.074	0.15	0.25	0.25	0.31	0.16	0.10	0.28	0.32	0.25	0.14	--	0.31	0.34	0.18	0.050
Beryllium	mg/L	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 UJ	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	--	< 0.000052 U	0.000058 J	0.000072 J	< 0.00010 U
Cadmium	mg/L	< 0.000032 U	< 0.000032 U	< 0.000032 U	< 0.000032 U	< 0.000032 U	< 0.000075 U	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	--	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U
Chromium, Total	mg/L	0.018	0.016	0.0097	0.0099	0.0083	0.025	0.027	0.034	0.028	0.0090	0.0073	0.033	0.050	0.014	0.011	--	0.041	0.059	0.014	0.0083
Cobalt	mg/L	0.00063	0.00056	0.00052	0.00043 J	0.00024 J	0.00063	0.00092 J+	0.00083	0.00075	0.00037 J	0.00016 J	0.00074	0.0011	0.00046 J	0.00035 J	--	0.00096	0.0014	0.00045 J	< 0.00010 U
Fluoride	mg/L	0.37	0.29	0.31	0.41	0.42	0.35	0.36	0.41	0.43	0.40	0.71	0.48	0.23	0.25	0.44	--	0.58	0.55	0.39	0.52
Lead	mg/L	< 0.00022 U	< 0.00022 U	< 0.00022 U	< 0.00022 U	< 0.00022 U	< 0.00010 U	< 0.00010 UJ	< 0.00010 U	< 0.0001 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	--	< 0.00010 U	0.00012 J	0.00043 J	0.00026 J
Lithium	mg/L	0.0086	0.0088	0.0067	0.0073	0.0075	0.0073	0.017	0.0093	0.0099	0.0050	0.0058	0.0099	0.0092	0.0058	0.0055	--	0.0093	0.0086	0.0053	0.0039
Mercury	mg/L	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	--	< 0.00000016 U	0.00000057	< 0.00000016 U	0.00000062	0.00000052
Molybdenum	mg/L	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	0.00041 J	< 0.00025 UJ	< 0.00025 U	< 0.00025 U	< 0.00025 U	< 0.00025 U	< 0.00025 U	0.00026 J	< 0.00025 U	< 0.00025 U	--	< 0.00025 U	0.00058 J	0.00057 J	< 0.00032 U
Radium 226 and 228	pCi/L	0.823	< 0.639 UJ	< 0.729 U	< 0.889 U	1.15	1.61	0.84	1.76	< 0.857 U	< 0.774 U	1.25	0.876	< 1.24 U	--	1.07	--	2.24	1.6	< 1.01 U	< 0.973 U
Radium-226	pCi/L	0.367	0.23	< 0.127 U	< 0.197 U	< 0.171 U	< 0.325 U	0.458	0.477	0.464	0.22	0.549	0.429	0.34	--	< 0.559 U	--	0.545	0.396	< 0.2 U	< 0.159 U
Radium-228	pCi/L	< 0.679 U	< 0.639 UJ	< 0.729 U	< 0.889 U	1.03	1.47 J	< 0.578 U	1.28	< 0.857 U	< 0.774 U	< 0.85 U	< 0.709 U	< 1.24 U	--	0.826	--	1.7	1.2	< 1.01 U	< 0.973 U
Selenium	mg/L	0.00023 J	< 0.00022 U	< 0.00022 U	< 0.00022 U	< 0.00022 U	0.00016 J	0.00021 J+	0.00022 J	0.0002 J	0.00053	0.00014 J	0.00027 J	0.00032 J	0.00024 J	0.00020 J	--	0.00029 J	0.00029 J	0.00018 J	0.00012 J
Thallium	mg/L	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	--	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U
Total Suspended Solids	mg/L	34	27	22	14	5.0	11	19	11	22	23	9.0	6.0	26	20	13	--	11	4.2	11	< 4.0 U
Michigan CCR Part 115																					
Copper	mg/L	0.00030	< 0.00020 U	0.0016	< 0.00020 U	0.00022 J	0.00032	< 0.00020 U	0.00023 J	0.00024 J	< 0.00020 U	0.00039	< 0.00020 U	0.00022 J	< 0.00020 U	0.00037	--	0.00020 J	0.00024 J	0.0012	0.0014
Iron	mg/L	13	11	11	8.3	5.5	7.6	9.4	8.0	11	9.9	7.7	8.4	8.1	11	6.4	--	8.1	7.4	6.0	2.1
Nickel	mg/L	0.00077 J	0.0010 J	0.0010 J	0.00077 J	< 0.00065 U	0.00087 J	0.00067 J	0.00075 J	< 0.00065 U	0.00076 J	0.00073 J	< 0.00065 U	0.00094 J	0.00081 J	0.00089 J	--	0.00084 J	0.00098 J	0.00081 J	0.00052 J
Silver	mg/L	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.00005 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	--	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U
Vanadium	mg/L	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	0.00082 J	0.00093 J	< 0.00062 U	< 0.00062 U	0.00071 J	0.0018	0.0024	0.0010 J	0.0011 J	--	0.0020	0.0023	0.00097 J	0.00054 J
Zinc	mg/L	0.0096	< 0.0012 U	0.0016	< 0.0012 U	0.0079	0.0013	< 0.0012 U	< 0.0012 U	< 0.0012 U	< 0.0012 U	< 0.0012 U	< 0.0012 U	0.012	< 0.0012 U	< 0.0012 U	--	0.0027	0.00058 J	0.019	0.011
Additional Parameters																					
Bicarbonate Alkalinity	mg/L	1200	880	800	590	480	770	1100	1100	1400	790	520	1300	1700	1100	650	--	1500	1700	840	370
Carbonate Alkalinity	mg/L	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.16 U	< 0.31 U	< 0.31 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	--	< 0.31 U	< 0.16 U	< 0.16 U	< 0.31 U
Magnesium	mg/L	45	45	47	44	26	31	33	35	40	55	39	45	44	52	39	--	45	44	51	25
Potassium	mg/L	7.6	7.3	6.2	5.8	4.1	6.5	11	12	11	4.9	3.5	9.8	11	8.0	5.1	--	12	12	5.5	1.6
Sodium	mg/L	92	68	59	61	41	52	75	80	82	59	41	72	82	99	69	--	90	90	91	31
Total Alkalinity	mg/L	1200	880	800	590	480	770	1100	1100	1400	790	520	1300	1700	1100	650	--	1500	1700	840	370

Notes:

ug/l - micrograms per liter.

mg/l = milligrams per liter.

su - standard pH units (pH is a field parameter)

pCi/L = picocuries per liter.

All metals were analyzed as total unless otherwise indicated.

Qualifiers:

U The analyte was analyzed for, but was not detected at, a level greater than or equal to the level of the adjusted reporting limit (RL) for the sample and method.

J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to the concentration of the analyte being below the RL).

J+ Same as J, and the reported concentration is potentially biased high.

J– Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Appendix D
Analytical Data Reporting Tables
Former J.B. Sims Generating Station
Renew Harbor Island

	Sample Location:	MW-27
	Compliance Phase:	Assessment
	Sample Date:	8/12/2026
	Sample Type:	Field Sample
	Unit:	Unit 3A/B & 1/2
	Sample Matrix:	Groundwater
Constituent	**Unit**	
Field Parameters		
Conductivity	mS/cm	2.72
Dissolved Oxygen	mg/L	0.11
Oxidation Reduction Potential	mV	-100.2
pH	su	6.51
Temperature	deg c	20.7
Turbidity	NTU	5.87
Appendix III		
Boron	mg/L	0.50
Calcium	mg/L	140
Chloride	mg/L	140
Fluoride	mg/L	0.77
Sulfate (as SO4)	mg/L	1.2 J
Total Dissolved Solids	mg/L	820
Appendix IV		
Antimony	mg/L	< 0.00010 U
Arsenic	mg/L	0.00082
Barium	mg/L	0.20
Beryllium	mg/L	< 0.00010 U
Cadmium	mg/L	< 0.000075 U
Chromium, Total	mg/L	0.029
Cobalt	mg/L	0.00056
Fluoride	mg/L	0.77
Lead	mg/L	0.00011 J
Lithium	mg/L	0.0078
Mercury	mg/L	< 0.00000016 U
Molybdenum	mg/L	< 0.00032 U
Radium 226 and 228	pCi/L	3.19
Radium-226	pCi/L	0.446
Radium-228	pCi/L	2.75
Selenium	mg/L	0.00021 J
Thallium	mg/L	< 0.000075 U
Total Suspended Solids	mg/L	6.4
Michigan CCR Part 115		
Copper	mg/L	< 0.00020 U
Iron	mg/L	5.3
Nickel	mg/L	0.00052 J
Silver	mg/L	< 0.000050 U
Vanadium	mg/L	0.0012
Zinc	mg/L	0.018
Additional Parameters		
Bicarbonate Alkalinity	mg/L	1100
Carbonate Alkalinity	mg/L	< 0.16 U
Magnesium	mg/L	40
Potassium	mg/L	8.0
Sodium	mg/L	89
Total Alkalinity	mg/L	1100

Notes:

ug/l - micrograms per liter.

mg/l = milligrams per liter.

su - standard pH units (pH is a field parameter)

pCi/L = picocuries per liter.

All metals were analyzed as total unless otherwise indicated.

Qualifiers:

U The analyte was analyzed for, but was not detected at, a level greater than or equal to the level of the adjusted reporting limit (RL) for the sample and method.

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J+ Same as J, and the reported concentration is potentially biased high.

J– Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Appendix D
Analytical Data Reporting Tables
Former J.B. Sims Generating Station
Renew Harbor Island

Sample Location:		MW-28	MW-28	MW-28	MW-28	MW-28	MW-28	MW-28	MW-28	MW-28	MW-28
Compliance Phase:		Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment
Sample Date:		4/7/2024	7/18/2024	10/17/2024	2/27/2025	4/21/2025	8/14/2025	10/23/2025	2/18/2026	4/23/2026	8/12/2026
Sample Type:		Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
Unit:		Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2
Sample Matrix:		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Constituent	**Unit**										
Field Parameters											
Conductivity	mS/cm	1.18	1.46	1.22	1.83	1.005	1.561	1.363	0.89	0.93	1.53
Dissolved Oxygen	mg/L	0.08	0.01	0.17	0.16	0.29	0.07	0.2	0.13	0.13	0.08
Oxidation Reduction Potential	mV	-118.7	-158.8	-133.4	-32	-53.5	-121.5	-143.3	-22.8	-66	-154.7
pH	su	7.02	6.94	6.84	6.9	6.98	6.89	6.97	6.63	7.08	6.71
Temperature	deg c	8.1	16.8	16	6.3	7.4	18.3	16	5.3	9.7	18.3
Turbidity	NTU	3.17	4.11	0.02	6.58	1.57	3.78	6.05	6.65	3.06	4.1
Appendix III											
Boron	mg/L	2.2	6.1	3.8	2.7	2.0	5.6	5.1	0.34	0.56	3.7
Calcium	mg/L	170	160	180	230	160	210	170	120	140	190
Chloride	mg/L	18	67	170	240	180	170	160	41	21	99
Fluoride	mg/L	0.90	1.5	1.4	0.94	0.97	1.4	2.0	0.40	0.50	1.3
Sulfate (as SO4)	mg/L	11	< 2.2 U	< 1.1 U	41	57	0.67 J	0.65 J	45	36	0.58 J
Total Dissolved Solids	mg/L	610	690	920	1100	900	920	820	480	540	780
Appendix IV											
Antimony	mg/L	0.00028	0.00016 J	0.00020 J	0.00073	0.00036	0.00018 J	0.00014 J	0.0021	0.0012	0.00056
Arsenic	mg/L	0.0011	0.0014	0.0019	0.0020	0.0014	0.0038	0.0011	0.00076	0.0028	0.0072
Barium	mg/L	0.34	0.70	0.76	0.75	0.42	0.75	0.75	0.15	0.32	0.64
Beryllium	mg/L	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.00010 U	< 0.00010 U
Cadmium	mg/L	< 0.000075 U	< 0.000075 U	< 0.000075 U	0.000091 J	0.000080 J	< 0.000075 U	< 0.000075 U	0.0037	0.00064	0.00070
Chromium, Total	mg/L	0.017	0.0092	0.015	0.0075	0.0078	0.0093	0.0044	0.0018	0.016	0.015
Cobalt	mg/L	0.00064	0.00046 J	0.00041 J	0.0020	0.0031	0.0013	0.00024 J	0.0026	0.0024	0.0024
Fluoride	mg/L	0.90	1.5	1.4	0.94	0.97	1.4	2.0	0.40	0.50	1.3
Lead	mg/L	0.0011	0.0013	0.00088	0.0052	0.0015	0.0041	0.00034 J	0.0076	0.015	0.025
Lithium	mg/L	0.050	0.15	0.12	0.084	0.054	0.13	0.15	0.0046	0.012	0.084
Mercury	mg/L	0.00024	< 0.00016 U	< 0.00016 U	< 0.00016 U	0.0000075	0.0000041	0.00000055	0.000037	0.000032	0.0000074
Molybdenum	mg/L	0.00087 J	0.00054 J	0.0020	0.0027	0.0020	0.0021	0.0087	0.0044	0.0053	0.0049
Radium 226 and 228	pCi/L	0.909	1.29	1.27	--	< 0.964 U	1.93	1.3	0.977	< 0.949 U	3.32
Radium-226	pCi/L	0.282	0.273	< 0.218 U	--	< 0.416 U	0.408	< 0.463 U	< 0.162 U	0.175	0.338
Radium-228	pCi/L	< 0.842 U	1.02	1.06	--	< 0.964 U	1.52	< 1.26 U	0.925	< 0.949 U	2.98
Selenium	mg/L	0.00032 J	0.00024 J	0.00028 J	0.00029 J	0.00028 J	0.00026 J	0.00030 J	0.0017	0.00039 J	0.00043 J
Thallium	mg/L	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U
Total Suspended Solids	mg/L	44	86	120	75	66	110	98	< 4.0 U	32	110
Michigan CCR Part 115											
Copper	mg/L	0.00052	0.00090	0.00037	0.0013	0.0015	0.00055	< 0.00020 U	0.0098	0.0041	0.0038
Iron	mg/L	30	37	47	43	26	47	39	1.5	9.9	43
Nickel	mg/L	0.0036	0.00072 J	0.0024	0.0073	0.0073	0.0017	0.00046 J	0.0058	0.0052	0.0041
Silver	mg/L	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U
Vanadium	mg/L	0.00063 J	0.00074 J	0.00080 J	< 0.00062 U	< 0.00062 U	0.00071 J	0.00050 J	0.00063 J	0.0010 J	0.0012
Zinc	mg/L	0.0090	0.0067	0.031	0.083	0.11	0.047	0.0014	0.28	0.12	0.063
Additional Parameters											
Bicarbonate Alkalinity	mg/L	560	600	590	550	480	590	510	320	430	590
Carbonate Alkalinity	mg/L	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.16 U
Magnesium	mg/L	27	27	33	39	29	28	32	29	22	30
Potassium	mg/L	12	13	14	13	10	14	12	4.1	7.0	12
Sodium	mg/L	29	66	51	80	65	74	82	21	22	62
Total Alkalinity	mg/L	560	600	590	550	480	590	510	320	430	590

Notes:

ug/l - micrograms per liter.

mg/l = milligrams per liter.

su - standard pH units (pH is a field parameter)

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Appendix D
Analytical Data Reporting Tables
Former J.B. Sims Generating Station
Renew Harbor Island

Sample Location:		MW-30	MW-30	MW-30	MW-30	MW-30	MW-30	MW-30	MW-30	MW-30	MW-30	MW-30	MW-30	MW-30	MW-30	MW-30	MW-30	MW-30	MW-30	MW-30	MW-30	MW-30
Compliance Phase:		Background	Background	Background	Background	Background	Background	Background	Background	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment
Sample Date:		11/30/2022	1/3/2023	2/6/2023	3/13/2023	4/18/2023	5/22/2023	6/27/2023	8/8/2023	10/23/2023	2/12/2024	4/7/2024	7/18/2024	10/16/2024	2/25/2025	4/20/2025	8/11/2025	10/21/2025	2/16/2026	4/21/2026	8/11/2026	
Sample Type:		Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	
Unit:		Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	
Sample Matrix:		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	
Constituent	**Unit**																					
Field Parameters																						
Conductivity	mS/cm	2.26	3.18	3.025	2.273	2.73	2.66	2.85	2.67	2.21	2.68	2.61	2.93	3.06	5.15	3.38	4.412	4.248	4.61	3.16	3.47	
Dissolved Oxygen	mg/L	0.12	0.39	0.04	0.35	0.29	0.05	0.01	0.12	0.41	0.14	0.03	0	0.06	0.01	0.26	0.1	0.06	0.1	0.33	0.11	
Oxidation Reduction Potential	mV	-55.7	-281.2	-134.9	-148.7	-151.8	-86.8	-105.6	-92.7	-301.7	-73.8	-71.3	-198.6	-313.1	-21.4	-29.4	-192.5	-245.8	-240.3	-157.7	-252.2	
pH	su	7.07	6.48	7.16	7.25	7.17	7.16	7.21	6.94	7.05	7.18	7.15	7.06	7.02	6.82	7.02	6.96	7.03	7.19	6.97	6.86	
Temperature	deg c	10.1	7.2	6.4	4.8	6.6	10.7	13.6	17	15	6.2	7.3	16.9	16	5.7	7.4	18.3	15.8	6.1	8.5	17.6	
Turbidity	NTU	0.02	0.02	1.21	0.02	0.02	0.5	0.02	0.02	0.02	0.02	0.02	0.92	0.02	1.15	0.02	0.02	0.59	0.02	0.02	0.02	
Appendix III																						
Boron	mg/L	2.2	1.7	2.1	3.5	1.7	1.9	1.9 J+	1.8	2.1	1.9	1.6	1.9	1.9	1.4	1.8	2.0	1.5	2.0	1.3	1.8	
Calcium	mg/L	470	460	480	960	430	430	460	400	390	440	470	500	440	700	710	610	62	560	440	450	
Chloride	mg/L	190	190	190	140	120	98	110	98	97	110 J+	82	190	430	1200	1100	1100	1000	890	350	460	
Fluoride	mg/L	1.0	1.4	1.0	1.2	1.1	1.1	0.91	1.1	1.2	1.1	1.2	1.1	1.2	0.57	1.1	1.2	0.83	1.0	1.2	1.0	
Sulfate (as SO4)	mg/L	780	1000	830	940	970	850	940	860	610	820	980	960	440	980	1000	840	580	620	860	690	
Total Dissolved Solids	mg/L	2200 J	2400	2000	2300	2200	2100	2800 J	2300	1800	2100	2200	2300	2200	4000	4000	4300	3200	3000	2300	2600	
Appendix IV																						
Antimony	mg/L	< 0.000050 U	< 0.000050 U	< 0.00025 U	< 0.000050 U	0.00040 J	< 0.00050 U	< 0.00050 U	< 0.00010 U	< 0.0001 U	< 0.00050 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	0.00065 J	< 0.00010 U	< 0.00010 U	0.0012	0.00048	< 0.00010 U	< 0.00010 U	
Arsenic	mg/L	0.00046 J	0.00070	< 0.00050 U	0.00039 J	< 0.00010 U	0.00012 J	0.00027 J+	0.00043 J	0.00063	0.00021 J-	0.00044 J	0.00058	0.00097	0.0022 J	0.0030	0.0011	0.0080	0.0020	0.00078	0.0013	
Barium	mg/L	0.10	0.089	0.10	0.045	0.047	0.058	0.066	0.048	0.058	0.067 J-	0.051	0.041	0.079	0.098	0.071	0.062 J+	0.074	0.11	0.050	0.060	
Beryllium	mg/L	< 0.000052 U	0.000053 J	< 0.00026 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 UJ	< 0.000052 U	< 0.000052 U	0.00011 J+	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.00026 U	< 0.000052 U	0.000062 J	0.000069 J	< 0.000052 U	< 0.00010 U	< 0.00010 U	
Cadmium	mg/L	< 0.000032 U	< 0.000032 U	< 0.00016 U	< 0.000032 U	< 0.00016 U	< 0.00038 U	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	< 0.00038 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.00038 U	< 0.000075 U	< 0.000075 U	0.00032	< 0.000075 U	< 0.000075 U	< 0.000075 U	
Chromium, Total	mg/L	0.014	0.012	0.0087	0.010	0.0058	0.0052	0.012	0.013	0.0081	0.0049 J-	0.0075	0.010	0.012	0.0031	0.0065	0.0080	0.023	0.0056	0.0045	0.0098	
Cobalt	mg/L	0.00091	0.0044	0.00096 J	0.0028	0.0011	0.00054	0.0013 J+	0.0011	0.00053	0.0011	0.0015	0.00077	0.00047 J	0.046	0.0021	0.00047 J	0.00094	0.0055	0.00061	0.00038 J	
Fluoride	mg/L	1.0	1.4	1.0	1.2	1.1	1.1	0.91	1.1	1.2	1.1	1.2	1.1	1.2	0.57	1.1	1.2	0.83	1.0	1.2	1.0	
Lead	mg/L	< 0.00022 U	< 0.00022 U	< 0.0011 U	< 0.0011 U	< 0.0011 U	< 0.00050 U	< 0.00050 UJ	< 0.00050 U	< 0.0001 U	< 0.00050 UJ	< 0.00010 U	< 0.00050 U	0.0017 J	< 0.00050 U	< 0.00050 U	< 0.00050 U	0.058	< 0.00050 U	< 0.00010 U	< 0.00010 U	
Lithium	mg/L	0.13	0.15	0.12	0.27	0.11	0.11	0.12	0.14	0.12	0.10	0.11	0.13	0.12	0.16	0.19	0.18	0.086	0.16	0.12	0.15	
Mercury	mg/L	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	0.00039	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00000016 U	< 0.00000016 U	< 0.00000016 U	0.00000023 J	< 0.00000016 U	< 0.00000016 U	
Molybdenum	mg/L	< 0.00062 U	0.0036	< 0.0031 U	0.0017	< 0.0031 U	0.00032 J	0.00082 J+	0.0011 J	0.00061 J	0.00073 J+	0.0013	0.00089 J	0.00051 J	0.019	0.0037	0.0012	0.032	0.0013	0.0046	0.0013	
Radium 226 and 228	pCi/L	< 0.873 UJ	0.445 J	< 0.624 UJ	< 0.659 U	0.875	< 0.783 U	0.586 J+	0.911	< 0.526 U	0.793 J+	< 0.559 U	0.68	< 1.12 U	1.05	< 0.695 U	1.43	< 0.769 U	< 0.911 U	1.28	< 0.509 U	
Radium-226	pCi/L	< 0.238 UJ	0.139 J	< 0.0915 UJ	< 0.2 U	< 0.141 U	< 0.194 U	0.0986 J+	< 0.163 UJ	< 0.228 U	< 0.117 UJ	0.133	0.199	< 0.219 U	0.53	< 0.149 U	0.381	< 0.241 U	< 0.146 U	0.358	< 0.303 U	
Radium-228	pCi/L	< 0.873 UJ	< 0.443 UJ	< 0.624 UJ	< 0.659 U	0.844	< 0.783 U	< 0.566 UJ	0.82	< 0.526 U	0.721 J+	< 0.559 U	< 0.537 U	< 1.12 U	0.52	< 0.695 U	1.05	< 0.769 U	< 0.911 U	0.921	< 0.509 U	
Selenium	mg/L	< 0.00022 U	< 0.00022 U	< 0.0011 U	< 0.00022 U	< 0.00022 U	< 0.00010 U	0.00011 J+	0.00012 J	0.00013 J	0.00039 J-	0.00010 J	0.00017 J	0.00024 J	< 0.00050 U	0.00014 J	0.00013 J	0.0015	0.00020 J	0.00015 J	0.00013 J	
Thallium	mg/L	< 0.000075 U	< 0.000075 U	< 0.00038 U	< 0.00038 U	< 0.00038 U	< 0.00038 U	< 0.00038 UJ	< 0.00038 U	< 0.000075 U	< 0.00038 U	< 0.000075 U	< 0.00038 U	< 0.00038 U	< 0.00038 U	< 0.000075 U	< 0.00038 U	< 0.000075 U	< 0.00038 U	< 0.000075 U	< 0.000075 U	
Total Suspended Solids	mg/L	4.0	11	< 4.0 UJ	5.0	6.0	4.0	< 4.0 U	5.0	4	< 4.0 U	5.1	18	8.0	8.0	38	15	5.1	7.4	8.0	8.3 J	
Michigan CCR Part 115																						
Copper	mg/L	< 0.00020 U	0.00037 J+	< 0.0010 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	0.00054	0.00024 J-	0.00028	< 0.00020 U	< 0.00020 U	< 0.0010 U	0.00020 J	< 0.00020 U	0.013	< 0.00020 U	< 0.00020 U	< 0.00020 U	
Iron	mg/L	0.87	3.6	0.99	8.8	4.1	2.4	2.9	2.9	1.4	2.0	4.9	5.9	2.1	2.5	17	4.5	1.2	0.96	4.2	2.5	
Nickel	mg/L	0.00080 J	0.0045	< 0.0032 U	0.0041	0.0018	0.00070 J	0.0021	0.0011 J	< 0.00065 U	0.0018 J-	0.0019	0.0017	< 0.00065 U	0.11	0.0053	0.0013	0.012	0.0075	0.0014	0.00049 J	
Silver	mg/L	< 0.000050 U	< 0.000050 U	< 0.00025 U	< 0.000050 U	< 0.00025 U	< 0.00025 U	< 0.000050 U	< 0.000050 U	< 0.00005 U	< 0.00025 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.00025 U	< 0.000050 U	< 0.000050 U	0.00012	< 0.000050 U	< 0.000050 U	< 0.000050 U	
Vanadium	mg/L	< 0.00062 U	< 0.00062 U	< 0.0031 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 UJ	< 0.00062 U	< 0.0031 U	< 0.00062 U	0.00047 J	0.024	0.00042 J	< 0.00028 U	0.00042 J	
Zinc	mg/L	0.0053	< 0.0012 U	< 0.0059 U	< 0.0012 U	0.0049	< 0.0012 U	< 0.0012 U	< 0.0012 U	< 0.0012 U	< 0.0012 UJ	< 0.0012 U	< 0.0012 U	0.0033	0.10	0.0027	0.0011 J	0.027	0.073	0.0098	0.0066	
Additional Parameters																						
Bicarbonate Alkalinity	mg/L	930	760	880	660	630	640	< 0.16 U	690	780	690	570	630	770	550	540	660	740	750	530	670	
Carbonate Alkalinity	mg/L	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.31 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.16 U	
Magnesium	mg/L	110	120	120	250	120	110	120	100	95	110	120	110	99	190	180	150	5.4	140	90	100	
Potassium	mg/L	12	15	16	17	12	9.6	11	13	10	10	8.9	11	11	18	18	19	74	16	11	14	
Sodium	mg/L	120	110	120	220	98	95	95	88	82	89	73	82	120	330	400	330	81	310	170	160	
Total Alkalinity	mg/L	930	760	880	660	630	640	< 0.16 U	690	780	690	570	630	770	550	540	660	740	750	530	670	

Notes:

ug/l - micrograms per liter.

mg/l = milligrams per liter.

su - standard pH units (pH is a field parameter)

pCi/L = picocuries per liter.

All metals were analyzed as total unless otherwise indicated.

Qualifiers:

U The analyte was analyzed for, but was not detected at, a level greater than or equal to the level of the adjusted reporting limit (RL) for the sample and method.

J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to the concentration of the analyte being below the RL).

J+ Same as J, and the reported concentration is potentially biased high.

J– Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Appendix D
Analytical Data Reporting Tables
Former J.B. Sims Generating Station
Renew Harbor Island

Sample Location:		MW-31	MW-31	MW-31	MW-31	MW-31	MW-31	MW-31	MW-31	MW-31	MW-31	MW-31	MW-31	MW-31	MW-31	MW-31	MW-31	MW-31	MW-31	MW-31	MW-31	MW-31
Compliance Phase:		Background	Background	Background	Background	Background	Background	Background	Background	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment
Sample Date:		12/1/2022	1/4/2023	2/7/2023	3/14/2023	4/18/2023	5/22/2023	6/27/2023	8/8/2023	10/23/2023	2/12/2024	4/8/2024	7/17/2024	7/18/2024	10/15/2024	2/25/2025	4/20/2025	8/12/2025	10/21/2025	2/16/2026	4/21/2026
Sample Type:		Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
Unit:		Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2
Sample Matrix:		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Constituent	**Unit**																					
Field Parameters																						
Conductivity	mS/cm	1.35	1.4	1.327	1.23	1.28	1.21	1.24	1.41	1.23	1.1	1.26	1.32	NA	1.26	1.15	0.996	1.377	1.151	2.14	1.9
Dissolved Oxygen	mg/L	1.65	0.09	0.21	0.11	0.11	0.09	1.39	0.05	0.15	0.05	0.04	0.23	NA	0.66	0.2	0.14	2.34	2.01	3.39	0.39
Oxidation Reduction Potential	mV	-150	-262.2	-129.3	-214.9	-274.4	-220	-113.9	-55.8	-82.4	149.7	-130.1	-117.3	NA	-73	-41.8	-105	123.2	-43.4	79.8	-168.5
pH	su	7.84	7.7	7.85	7.76	7.87	7.85	8	7.78	7.67	7.8	8.01	7.74	NA	7.82	8.02	7.73	7.8	8.08	7.59	7.28
Temperature	deg c	8.7	7.6	6.3	4	6.5	13.2	14.4	17.8	14.9	7	10.2	19	NA	14.1	6.3	10.4	16.2	14.4	7.1	9.3
Turbidity	NTU	2.61	0.02	1.27	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	NA	0.02	0.97	0.02	22.1	12.3	26.9	6.61
Appendix III																						
Boron	mg/L	4.8	3.8	4.2	4.0	3.6	4.5	5.4 J+	4.8	5.1	4.4	4.5	5.4	--	5.8	4.5	4.4	6.4	7.0	6.6	6.2
Calcium	mg/L	180	190	170	200	170	160	130	150	170	170	200	170	--	150	150	200	160	130	330	270
Chloride	mg/L	120	100	110	97	94	92	110	110	100	99 J+	87	--	100	110	110	100	170	170	120	120
Fluoride	mg/L	4.6	4.9	4.7	4.6	5.1	5.2	4.7	5.1	4.6	4.5	4.7	--	4.7	4.5	4.1	4.5	4.0	3.3	2.8	3.2
Sulfate (as SO4)	mg/L	180	250	200	250	250	160	120	100	72	150	170	--	120	45	71	240	60	19	650	360
Total Dissolved Solids	mg/L	850	940 J	780	860	810	760	760	860	730	810	810	--	780	730	740	960	910	770	1500	1300
Appendix IV																						
Antimony	mg/L	0.000069 J	< 0.000050 U	0.000080 J	0.00012 J	0.00013 J	< 0.00010 U	< 0.00010 U	0.00012 J	< 0.0001 U	< 0.00010 U	< 0.00010 U	0.00038	--	0.00039	0.00069	< 0.00010 U	0.0011	0.00043	0.0011	0.00026
Arsenic	mg/L	0.0018	0.0013	0.0012	0.0010	0.0011	0.0014	0.0016 J+	0.0016	0.0012	0.0010	0.0012	0.0012	--	0.00095	0.0012	0.00073	0.0019	0.0015	0.0082	0.0055
Barium	mg/L	0.21	0.14	0.19	0.15	0.12	0.13	0.23	0.16	0.16	0.13	0.13	0.18	--	0.29	0.20	0.099	0.25	0.38	0.20	0.28
Beryllium	mg/L	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 UJ	< 0.000052 U	< 0.000052 U	0.000054 J	< 0.000052 U	< 0.000052 U	--	0.000096 J	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	0.000090 J	< 0.00010 U
Cadmium	mg/L	< 0.000032 U	< 0.000032 U	< 0.000032 U	< 0.000032 U	< 0.000032 U	< 0.000075 U	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	0.000084 J	< 0.000075 U	< 0.000075 U	--	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U
Chromium, Total	mg/L	0.0021	0.0018	0.0024	0.0019	0.0019	0.0029	0.0023	0.0023	0.0025	0.0022	0.0017	0.0029	--	0.0041	0.0020	0.0031	0.0018	0.0040	0.0039	0.0065
Cobalt	mg/L	0.00015 J	0.00015 J	0.00020 J	0.00018 J	0.00016 J	0.00021 J	0.00018 J+	0.00018 J	0.00013 J	0.00028 J	< 0.00010 U	0.00010 J	--	0.00036 J	< 0.00010 U	< 0.00010 U	0.00016 J	0.00022 J	0.0011	0.00042 J
Fluoride	mg/L	4.6	4.9	4.7	4.6	5.1	5.2	4.7	5.1	4.6	4.5	4.7	--	4.7	4.5	4.1	4.5	4.0	3.3	2.8	3.2
Lead	mg/L	< 0.00022 U	< 0.00022 U	< 0.00022 U	< 0.00022 U	< 0.00022 U	0.00031 J	< 0.00010 UJ	< 0.00010 U	< 0.0001 U	< 0.00010 U	< 0.00010 U	0.00025 J	--	< 0.00010 U	< 0.00010 U	< 0.00010 U	0.00025 J	0.00045 J	0.00044 J	< 0.00010 U
Lithium	mg/L	0.052	0.048	0.052	0.054	0.046	0.053	0.056	0.054	0.049	0.039	0.039	0.052	--	0.063	0.043	0.030	0.051	0.058	0.073	0.083
Mercury	mg/L	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	--	< 0.00016 U	< 0.00016 U	0.00000071	0.0000017	0.0000014	0.0000027	0.0000016
Molybdenum	mg/L	0.0021	0.0013	0.0013	0.0011 J	0.0011 J	0.0012	0.0018 J+	0.0011 J	0.0013	0.0011 J	0.00052 J	0.00083 J	--	0.0011 J	0.0015	0.00040 J	0.0091	0.0033	0.013	0.0057
Radium 226 and 228	pCi/L	0.753	< 0.641 U	0.717	< 0.725 U	0.592	1.14	0.58	1.23	< 0.497 U	1.01	0.754	0.991	--	< 0.736 U	< 0.56 U	< 0.644 U	0.576	< 0.852 U	< 1.1 U	3.41
Radium-226	pCi/L	0.187	0.203	0.187	< 0.189 U	0.254	0.184	0.27	0.262 J+	< 0.208 U	0.171	0.345	0.274	--	0.27	< 0.24 U	< 0.14 U	< 0.277 U	< 0.26 U	< 0.16 U	0.469
Radium-228	pCi/L	0.566	< 0.641 U	0.53	< 0.725 U	< 0.527 U	0.959	< 0.489 U	0.97	< 0.497 U	0.842	< 0.502 U	0.717	--	< 0.736 U	< 0.56 U	< 0.644 U	< 0.573 U	< 0.852 U	< 1.1 U	2.94
Selenium	mg/L	< 0.00022 U	< 0.00022 U	< 0.00022 U	< 0.00022 U	< 0.00022 U	0.00011 J	0.00012 J+	0.00015 J	0.00014 J	0.00074	0.00013 J	0.00016 J	--	0.00010 J	< 0.00010 U	0.00012 J	0.00024 J	0.00022 J	0.038	0.00093
Thallium	mg/L	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	0.000088 J	< 0.000075 U	< 0.000075 U	--	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U
Total Suspended Solids	mg/L	2.0 J	4.0	< 4.0 U	< 4.0 U	< 4.0 U	< 4.0 U	< 4.0 U	1.0 J	< 4 U	< 4.0 U	< 3.9 U	--	< 4.0 U	< 4.0 U	< 4.0 U	< 4.0 U	< 4.0 U	< 4.0 U	< 4.1 U	24	11
Michigan CCR Part 115																						
Copper	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	0.00027	< 0.00020 U	< 0.00020 U	< 0.0002 U	0.00023 J	0.00044	0.00029	--	0.00031	< 0.00020 U	< 0.00020 U	0.00033	0.0017	0.0032	0.00035
Iron	mg/L	2.5	1.4	1.5	1.1	0.77	1.2	0.92	0.21	0.13	0.19	0.12	0.14	--	0.23	0.22	0.15	0.84	0.39	5.7	4.2
Nickel	mg/L	< 0.00065 U	< 0.00065 U	< 0.00065 U	< 0.00065 U	< 0.00065 U	< 0.00065 U	< 0.00065 U	< 0.00065 U	< 0.00065 U	0.0023	< 0.00065 U	0.0021	--	0.0027	0.023	0.0014	0.24	0.068	0.64	0.011
Silver	mg/L	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.00005 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	--	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U
Vanadium	mg/L	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	0.00064 J	--	0.00083 J	< 0.00062 U	0.00076 J	0.00045 J	0.00059 J	0.00069 J	0.00047 J
Zinc	mg/L	0.0082	< 0.0012 U	< 0.0012 U	< 0.0012 U	0.010	0.0014	< 0.0012 U	< 0.0012 U	< 0.0012 U	< 0.0012 U	< 0.0012 U	< 0.0012 U	--	0.010	0.013	0.0016	0.0022	0.0018	0.029	0.027
Additional Parameters																						
Bicarbonate Alkalinity	mg/L	410	340	350	320	290	320	340	410	440	340	350	--	410	450	410	410	500	450	430	550
Carbonate Alkalinity	mg/L	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.31 U	< 0.16 U	--	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 U
Magnesium	mg/L	37	36	38	42	36	33	34	38	35	36	38	38	--	38	37	37	51	52	65	51
Potassium	mg/L	9.9	11	11	11	10	9.9	12	12	11	9.6	10	12	--	11	9.6	9.9	13	12	14	13
Sodium	mg/L	60	46	51	48	50	53	64	56	56	54	53	54	--	61	57	51	71	80	68	57
Total Alkalinity	mg/L	410	340	350	320	290	320	340	410	440	340	350	--	410	450	410	410	500	450	430	550

Notes:

ug/l - micrograms per liter.

mg/l = milligrams per liter.

su - standard pH units (pH is a field parameter)

pCi/L = picocuries per liter.

All metals were analyzed as total unless otherwise indicated.

Qualifiers:

U The analyte was analyzed for, but was not detected at, a level greater than or equal to the level of the adjusted reporting limit (RL) for the sample and method.

J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to the concentration of the analyte being below the RL).

J+ Same as J, and the reported concentration is potentially biased high.

J– Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Appendix D
Analytical Data Reporting Tables
Former J.B. Sims Generating Station
Renew Harbor Island

	Sample Location:	MW-31
	Compliance Phase:	Assessment
	Sample Date:	8/13/2026
	Sample Type:	Field Sample
	Unit:	Unit 1/2
	Sample Matrix:	Groundwater
Constituent	**Unit**	
Field Parameters		
Conductivity	mS/cm	1.44
Dissolved Oxygen	mg/L	2.53
Oxidation Reduction Potential	mV	29.6
pH	su	7.7
Temperature	deg c	17.1
Turbidity	NTU	8.47
Appendix III		
Boron	mg/L	8.2
Calcium	mg/L	160
Chloride	mg/L	120
Fluoride	mg/L	3.7
Sulfate (as SO4)	mg/L	120
Total Dissolved Solids	mg/L	870
Appendix IV		
Antimony	mg/L	0.0011
Arsenic	mg/L	0.0091
Barium	mg/L	0.26
Beryllium	mg/L	< 0.00010 U
Cadmium	mg/L	< 0.000075 U
Chromium, Total	mg/L	0.0053
Cobalt	mg/L	0.00026 J
Fluoride	mg/L	3.7
Lead	mg/L	0.00027 J
Lithium	mg/L	0.095
Mercury	mg/L	0.0000020
Molybdenum	mg/L	0.0084
Radium 226 and 228	pCi/L	1.31
Radium-226	pCi/L	0.362
Radium-228	pCi/L	0.946
Selenium	mg/L	0.0010
Thallium	mg/L	< 0.000075 U
Total Suspended Solids	mg/L	< 1.6 U
Michigan CCR Part 115		
Copper	mg/L	0.0012
Iron	mg/L	0.51
Nickel	mg/L	0.17
Silver	mg/L	< 0.000050 U
Vanadium	mg/L	0.00074 J
Zinc	mg/L	0.023
Additional Parameters		
Bicarbonate Alkalinity	mg/L	450
Carbonate Alkalinity	mg/L	< 0.16 U
Magnesium	mg/L	49
Potassium	mg/L	15
Sodium	mg/L	76
Total Alkalinity	mg/L	450

Notes:

ug/l - micrograms per liter.

mg/l = milligrams per liter.

su - standard pH units (pH is a field parameter)

pCi/L = picocuries per liter.

All metals were analyzed as total unless otherwise indicated.

Qualifiers:

U The analyte was analyzed for, but was not detected at, a level greater than or equal to the level of the adjusted reporting limit (RL) for the sample and method.

J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to the concentration of the analyte being below the RL).

J+ Same as J, and the reported concentration is potentially biased high.

J– Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Appendix D
Analytical Data Reporting Tables
Former J.B. Sims Generating Station
Renew Harbor Island

Sample Location:		MW-32	MW-32	MW-32	MW-32	MW-32	MW-32	MW-32	MW-32	MW-32	MW-32	MW-32	MW-32	MW-32	MW-32	MW-32	MW-32	MW-32	MW-32	MW-32	MW-32	MW-32
Compliance Phase:		Background	Background	Background	Background	Background	Background	Background	Background	Background	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment
Sample Date:		11/30/2022	1/4/2023	2/8/2023	3/14/2023	4/18/2023	5/22/2023	6/27/2023	8/8/2023	10/23/2023	2/12/2024	4/7/2024	7/17/2024	10/16/2024	2/25/2025	4/20/2025	8/11/2025	10/21/2025	2/16/2026	4/21/2026	8/12/2026
Sample Type:		Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
Unit:		Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2
Sample Matrix:		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Constituent	**Unit**																					
Field Parameters																						
Conductivity	mS/cm	1.29	1.29	1.258	1.175	1.29	1.2	1.05	0.99	1.14	0.96	1.21	0.99	1.07	1.07	0.758	0.897	1.05	1.39	1.38	1.11
Dissolved Oxygen	mg/L	0.07	0.08	0.08	0.1	0.1	0.33	0.12	0.13	0.29	0.09	0.04	0.18	0.11	0.01	0.11	0.09	0.19	0.13	0.22	0.2
Oxidation Reduction Potential	mV	-184.5	-222.8	-184.7	-188.5	-199.5	-221.7	-209.8	-141.4	-186.3	138.7	-178.6	-196	-197.4	-122.6	-143.2	-211.1	-191.3	-186.6	-191.2	-196.4
pH	su	7.69	7.5	7.57	7.53	7.67	7.75	7.65	7.52	7.53	7.64	7.63	7.58	7.59	7.67	7.67	7.57	7.53	7.66	7.35	7.2
Temperature	deg c	10.2	8.3	6.6	6.3	7.4	11.1	13	15.9	14.9	7	8.1	15.6	15.8	7.3	8.5	16.7	15.2	7.3	9.1	16.6
Turbidity	NTU	0.02	0.02	2.17	0.02	0.02	0.02	0.02	0.02	0.02	4.52	0.02	0.02	0.02	5.04	4.21	0.02	7.07	0.34	3.4	0.62
Appendix III																						
Boron	mg/L	3.8	3.0	3.0	2.9	2.6	3.1	3.9 J+	3.7	5	3.0	3.1	4.0	5.6	3.0	2.8	5.1	5.7	4.0	3.2	4.3
Calcium	mg/L	200	180	190	220	190	190	150	130	150	180	190	140	160	160	160	150	170	230	230	170
Chloride	mg/L	47	50	50	50	45	42	41	44	47	39 J+	38	42	50	50	46	53	61	47	28	34
Fluoride	mg/L	1.5	1.5	1.4	1.6	1.4	1.5	1.4	1.6	1.8	1.5	1.6	1.5	1.9	1.2	1.4	1.5	1.2	1.1	1.1	1.4
Sulfate (as SO4)	mg/L	100	110	54	170	190	140	48	17	17	83	130	9.5	5.9	27	110	6.4	6.0	240	340	67
Total Dissolved Solids	mg/L	790	700	730	770	800	790	600	550	640	680	770	560	580	650	690	610	680	850	870	690
Appendix IV																						
Antimony	mg/L	0.000067 J	< 0.000050 U	< 0.000050 U	0.000072 J	0.00014 J	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.0001 U	0.00070	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U
Arsenic	mg/L	0.00061	0.00045 J	0.00052 J	0.00047 J	0.00044 J	0.00055	0.00058 J+	0.00062	0.00058	0.0024	0.00046 J	0.00059	0.00064	0.00039 J	0.00042 J	0.00051 J	0.00048 J	0.00038 J	0.00039 J	0.00054 J
Barium	mg/L	0.62	0.60	0.57	0.41	0.29	0.34	0.37	0.41	0.85	0.059	0.57	0.63	1.3	0.97	0.84	1.1	1.4	0.39	0.21	0.24
Beryllium	mg/L	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 UJ	< 0.000052 U	< 0.000052 U	0.000070 J	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.00010 U	< 0.00010 U
Cadmium	mg/L	< 0.000032 U	< 0.000032 U	< 0.000032 U	< 0.000032 U	< 0.000032 U	< 0.000075 U	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	0.00019 J	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	0.00020 J	0.00036	0.00011 J
Chromium, Total	mg/L	0.00046	0.00065	0.00057	0.00055	0.00039	0.00038	0.00032	0.00031	0.00031	0.0030	0.00038	0.00036	0.00050	0.00033	0.00035	0.00035	0.00040	0.00037	0.00037	0.00032
Cobalt	mg/L	0.00034 J	0.00036 J	0.00039 J	0.00041 J	0.00031 J	0.00037 J	0.00068 J+	0.00058	0.00038 J	0.0019	0.00021 J	0.00046 J	0.00058	0.00022 J	0.00032 J	0.00052	0.00051 J	0.00057	0.0028	0.00059
Fluoride	mg/L	1.5	1.5	1.4	1.6	1.4	1.5	1.4	1.6	1.8	1.5	1.6	1.5	1.9	1.2	1.4	1.5	1.2	1.1	1.1	1.4
Lead	mg/L	< 0.00022 U	< 0.00022 U	< 0.00022 U	< 0.00022 U	< 0.00022 U	0.00012 J	0.00014 J+	< 0.00010 U	< 0.0001 U	0.00038 J	< 0.00010 U	< 0.00010 U	0.00042 J	< 0.00010 U	< 0.00010 U	0.00039 J	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U
Lithium	mg/L	0.15	0.14	0.12	0.11	0.094	0.10	0.13	0.14	0.19	0.10	0.098	0.13	0.20	0.12	0.094	0.16	0.17	0.14	0.096	0.15
Mercury	mg/L	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	0.0019	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00000016 U	0.0000012	0.00000064	0.00000034 J	< 0.00000016 U	0.00000073
Molybdenum	mg/L	0.0051	0.0043	0.0038	0.0032	0.0034	0.0045	0.0047 J+	0.0046	0.0045	0.0073	0.0034	0.0038	0.0045	0.0025	0.0026	0.0026	0.0011 J	0.0018	0.0020	0.0031
Radium 226 and 228	pCi/L	0.614	< 0.497 U	< 0.601 U	< 0.732 U	0.877	0.847	< 0.607 U	0.985	< 0.589 U	< 0.53 U	< 0.545 U	< 0.57 U	0.732	0 J-	< 0.639 U	1.6	1.09	0.883	2.61	0.951
Radium-226	pCi/L	< 0.184 U	0.219	0.152	< 0.195 U	< 0.164 U	0.206	< 0.0916 U	0.403 J+	< 0.18 U	< 0.156 U	< 0.137 U	0.172	0.172	0 J-	0.217	0.573	0.339	< 0.112 U	0.252	0.301
Radium-228	pCi/L	0.492	< 0.497 U	< 0.601 U	< 0.732 U	0.773	0.641	< 0.607 U	< 0.848 U	< 0.589 U	< 0.53 U	< 0.545 U	< 0.57 U	< 0.603 U	-0.04 J-	< 0.639 U	1.02	0.749	0.793	2.36	0.65
Selenium	mg/L	< 0.00022 U	< 0.00022 U	< 0.00022 U	< 0.00022 U	< 0.00022 U	< 0.00010 U	< 0.00010 UJ	< 0.00010 U	< 0.0001 U	0.0010	0.00013 J	< 0.00010 U	0.00014 J	< 0.00010 U	< 0.00010 U	< 0.00010 U	0.00010 J	< 0.00010 U	< 0.00010 U	< 0.00010 U
Thallium	mg/L	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U
Total Suspended Solids	mg/L	42	43	39	40	39	31	29	11	23	32	34	23	20	29	36	26	48	59	56	38
Michigan CCR Part 115																						
Copper	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	0.00020 J	< 0.00020 U	< 0.00020 U	0.00041	0.016	< 0.00020 U	0.00031	0.00035	0.00023 J	< 0.00020 U	0.00030	< 0.00020 U	< 0.00020 U	0.00032	< 0.00020 U
Iron	mg/L	20	18	18	19	18	17	15	11	11	17	16	12	13	14	15	15	21	25	22	15
Nickel	mg/L	0.0013	0.0016	0.0012	0.0012	0.00096 J	0.00088 J	0.0012	0.00086 J	0.00077 J	0.023	0.00095 J	0.00082 J	0.0010 J	0.00068 J	0.0019	0.00089 J	0.00080 J	0.0027	0.011	0.0010 J
Silver	mg/L	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.00005 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U
Vanadium	mg/L	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00028 U	< 0.00028 U	< 0.00028 U	< 0.00028 U	< 0.00028 U
Zinc	mg/L	0.031	0.0022	0.0026	0.0025	0.030	0.0037	0.0026	0.0030	0.0035	0.0049	0.0024	0.0024	0.058	0.068	0.0047	0.0046	0.0034	0.041	0.059	0.027
Additional Parameters																						
Bicarbonate Alkalinity	mg/L	560	490	500	450	440	430	440	440	520	440	470	440	510	480	470	500	550	470	400	470
Carbonate Alkalinity	mg/L	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.31 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.16 U
Magnesium	mg/L	38	34	35	37	34	34	28	28	30	32	33	26	31	29	28	31	35	37	32	28
Potassium	mg/L	13	13	12	11	9.8	9.7	12	13	13	9.1	9.2	11	13	9.2	8.2	12	13	9.2	7.8	10
Sodium	mg/L	36	29	29	30	27	30	33	32	35	30	28	30	36	29	25	34	36	31	22	27
Total Alkalinity	mg/L	560	490	500	450	440	430	440	440	520	440	470	440	510	480	470	500	550	470	400	470

Notes:

ug/l - micrograms per liter.

mg/l = milligrams per liter.

su - standard pH units (pH is a field parameter)

pCi/L = picocuries per liter.

All metals were analyzed as total unless otherwise indicated.

Qualifiers:

U The analyte was analyzed for, but was not detected at, a level greater than or equal to the level of the adjusted reporting limit (RL) for the sample and method.

J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to the concentration of the analyte being below the RL).

J+ Same as J, and the reported concentration is potentially biased high.

J– Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Appendix D
Analytical Data Reporting Tables
Former J.B. Sims Generating Station
Renew Harbor Island

Sample Location:		MW-33	MW-33	MW-33	MW-33	MW-33	MW-33	MW-33	MW-33	MW-33	MW-33	MW-33	MW-33	MW-33	MW-33	MW-33	MW-33	MW-33	MW-33	MW-33	MW-33	MW-33
Compliance Phase:		Background	Background	Background	Background	Background	Background	Background	Background	Background	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment
Sample Date:		12/1/2022	1/5/2023	2/8/2023	3/15/2023	4/18/2023	5/22/2023	6/27/2023	8/7/2023	10/23/2023	2/12/2024	4/9/2024	7/18/2024	10/17/2024	2/3/2025	4/19/2025	8/12/2025	10/20/2025	2/17/2026	4/23/2026	8/13/2026
Sample Type:		Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
Unit:		Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2
Sample Matrix:		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Constituent	**Unit**																				
Field Parameters																					
Conductivity	mS/cm	1.1	0.99	0.949	0.859	0.91	0.92	0.901	0.98	1	0.78	0.85	1.21	1.11	0.716	0.631	1.16	1.601	0.694	0.77	1.22
Dissolved Oxygen	mg/L	0.81	1.02	0.75	0.2	0.23	0.06	0.05	0.01	0.02	0.4	0.23	0.01	0.1	0.49	0.26	0.26	0.31	1.74	0.17	0.09
Oxidation Reduction Potential	mV	-28.5	-72.8	-61.2	-37.4	-63.6	-86.2	-106.6	-121.9	-107.1	-11.1	-43	-185.9	-16.9	42	-48.4	12.4	-112.2	-33.8	15.3	-138.4
pH	su	7.12	6.49	7.14	6.96	7.04	7.02	7.03	6.98	6.86	7.27	7.16	6.95	6.86	7.25	6.8	6.83	6.5	7.09	7.08	6.79
Temperature	deg c	8.3	4.8	2.4	3.6	8.8	10.7	13.7	17.2	15.8	7.1	7.5	16.4	16.4	6.8	7.8	17.8	16.9	5.5	9.5	17.6
Turbidity	NTU	0.02	0.02	1.17	0.02	3.44	0.55	0.02	1.07	3.25	3.07	4.13	1.49	2.13	1.72	0.02	0.02	2.65	0.99	1.01	4.63
Appendix III																					
Boron	mg/L	0.18	0.091	0.086	0.067	0.082	0.085	0.11 J+	0.12	0.16	0.078	0.065	0.10	0.15	0.056	0.21	0.16	0.17	0.040 J-	0.058	0.079
Calcium	mg/L	200	170	170	190	150	160	150	150	180	150	170	200	180	120	160	190	310	120	140	200
Chloride	mg/L	58	51	50	39	27	17	20	23	45	35 J+	20	36	64	35	41	47	48	29	17	33
Fluoride	mg/L	0.29	0.24	0.21 J	0.23	0.28	0.25	0.26	0.27	0.24	0.27	< 0.28 U	0.28	0.26	0.29	0.31	0.41	0.30	0.43	0.40	0.55
Sulfate (as SO4)	mg/L	100	58	65	42	23	1.9 J	4.3	1.6 J	69	20	17	3.7 J	98	22	22	41	370	50	41	8.0
Total Dissolved Solids	mg/L	750 J	630	680	590	580	600	600	570	690	550	600	740	760	500	640	720	1100	470	570	750
Appendix IV																					
Antimony	mg/L	0.00098	0.00088	0.00079	0.00059	0.0012	0.00017 J	0.00020 J	0.00015 J	0.00048	< 0.00050 U	0.00068	0.00035	0.0013	0.0011	0.00036	0.00042	0.00024 J	0.0011	0.0012	0.00030
Arsenic	mg/L	0.0031	0.0014	0.0016	0.0017	0.0040	0.0038	0.0032 J+	0.0027	0.0027	0.0012	0.0030	0.021	0.0011	0.0012	0.0056	0.0087	0.0018	0.0013	0.0022	0.011
Barium	mg/L	0.084	0.086	0.092	0.076	0.073	0.095	0.088	0.098	0.09	0.44	0.063	0.16	0.087	0.043	0.10	0.18	0.24	0.049	0.059	0.16
Beryllium	mg/L	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.00026 U	< 0.000052 U	< 0.000052 UJ	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	0.00010 J+	< 0.00010 U	< 0.00010 U
Cadmium	mg/L	0.000049 J	0.00010 J	0.00014 J	0.00015 J	< 0.00016 U	< 0.000075 U	< 0.000075 UJ	< 0.000075 U	0.00023 J	< 0.00038 U	0.00023 J	< 0.000075 U	0.00010 J	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	< 0.000075 U	0.00012 J	0.00017 J	< 0.000075 U
Chromium, Total	mg/L	0.0021	0.0028	0.0029	0.0027	0.0029	0.0039	0.0050	0.0059	0.0029	0.019	0.0032	0.011	0.0024	0.0035	0.0056	0.0093	0.0088	0.0043	0.0041	0.010
Cobalt	mg/L	0.00075	0.00049 J	0.00082	0.0017	0.0020 J	0.00083	0.00039 J+	0.00041 J	0.00053	0.0012	0.0022	0.00058	0.00064	0.00040 J	0.0031	0.00060	0.00069	0.00064	0.0021	0.00097
Fluoride	mg/L	0.29	0.24	0.21 J	0.23	0.28	0.25	0.26	0.27	0.24	0.27	< 0.28 U	0.28	0.26	0.29	0.31	0.41	0.30	0.43	0.40	0.55
Lead	mg/L	< 0.00022 U	< 0.00022 U	< 0.00022 U	< 0.00022 U	< 0.0011 U	0.00026 J	0.00015 J+	0.00015 J	0.00037 J	0.0014 J	0.00043 J	0.00013 J	0.00018 J	< 0.00010 U	0.00012 J	0.00017 J	0.00012 J	0.00019 J	0.00018 J	0.00032 J
Lithium	mg/L	0.0051	0.0069	0.0043	0.0047	0.0061	0.0052	< 0.0094 U	0.0041	0.0054	0.0028	0.0046	0.0069	0.0053	0.0030	0.0049	0.0063	0.0050	0.0021 J-	0.0035	0.0055
Mercury	mg/L	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 UJ	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	0.0000029	0.0000016	0.0000060	0.0000051 J-	0.0000063	0.0000011
Molybdenum	mg/L	0.0047	0.0037	0.0031	0.0031	0.0060 J	0.0026	0.00068 J+	0.00052 J	0.0032	0.00027 J	0.0030	0.0014	0.0067	0.0057	0.0048	0.0017	0.0015	0.0074	0.0071	0.0031
Radium 226 and 228	pCi/L	0.825	< 0.587 U	0.949	< 0.852 U	< 0.815 U	1.61	0.828	1.15	< 0.621 U	< 0.892 U	< 0.846 U	0.915	< 0.964 U	0.31 J-	< 1.46 U	1.11	7.89	< 0.982 U	< 0.966 U	2.12
Radium-226	pCi/L	< 0.267 U	< 0.14 U	< 0.125 U	< 0.204 U	< 0.232 U	< 0.256 U	0.154	0.276 J+	< 0.282 UJ	< 0.162 U	< 0.328 U	< 0.144 U	< 0.226 U	-0.03 J-	< 0.346 U	0.0278 J-	0.918	< 0.234 UJ	< 0.286 U	0.375
Radium-228	pCi/L	0.794	< 0.587 U	0.833	< 0.852 U	< 0.815 U	1.48 J	< 0.768 U	0.875	< 0.621 UJ	< 0.892 U	< 0.846 U	0.773	< 0.964 U	0.31 J-	< 1.46 U	1.08	6.98	< 0.982 UJ	< 0.966 U	1.74
Selenium	mg/L	0.00089	0.00076	0.00055	0.00038 J	< 0.0011 U	0.00033 J	0.00033 J+	0.00029 J	0.00059	0.00054	0.00053	0.00058	0.0010	0.00098	0.00053	0.00052	0.00048 J	0.0014	0.00061	0.00052
Thallium	mg/L	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.00038 U	< 0.000075 U	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	< 0.00038 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U
Total Suspended Solids	mg/L	2.0 J	5.0	10	1.0 J	9.0	17	21	22	10	6.0	5.0	80	< 4.0 U	< 4.0 U	27	70	57	< 4.1 U	4.0	55
Michigan CCR Part 115																					
Copper	mg/L	0.0079	0.016	0.016	0.020	0.0067	0.0017	0.0011	0.00079	0.0032	0.00099	0.013	0.00085	0.015	0.032	0.0042	0.00090	0.0011	0.037	0.027	0.00049
Iron	mg/L	1.2	2.5	2.8	2.5	4.6	7.4	7.7	8.7	4.4	1.1	1.2	29	0.067	0.078	8.9	25	20	1.2	0.44	16
Nickel	mg/L	0.020	0.016	0.017	0.019	0.023	0.014	0.0081	0.0049	0.0077	0.0036	0.026	0.014	0.014	0.018	0.028	0.012	0.0097	0.016	0.027	0.016
Silver	mg/L	< 0.000050 U	< 0.000050 U	< 0.000050 U	0.00011	< 0.00025 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.00005 U	< 0.00025 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U
Vanadium	mg/L	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.0031 U	< 0.00062 U	0.00065 J	0.00079 J	< 0.00062 U	< 0.00062 U	0.00097 J	0.0033	0.0014	0.00088 J	0.00095 J	0.0015	0.0013	0.0011 J	0.0011 J	0.0013
Zinc	mg/L	0.0071	0.0036	0.0050	0.0053	0.012	0.0014	< 0.0012 U	< 0.0012 U	0.018	0.0035	0.0072	0.0017	0.011	0.0059	0.0092	0.0029 J+	0.0033	0.013	0.017	0.016
Additional Parameters																					
Bicarbonate Alkalinity	mg/L	460	430	400	390	440	480	440	480	420	330	430	550	390	320	460	520	440	250	350	570
Carbonate Alkalinity	mg/L	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.31 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.16 U
Magnesium	mg/L	22	19	18	17	16	18	16	16	19	16	19	21	17	12	18	19	25	11	14	22
Potassium	mg/L	3.8	5.4	4.6	4.1	4.0	4.1	4.4	5.1	4.9	3.4	3.1	5.7	4.6	2.4	4.5	6.1	6.1	2.1	2.8	5.8
Sodium	mg/L	38	25	24	26	22	22	23	22	30	25	17	21	26	19	20	24	25	12	8.7	18
Total Alkalinity	mg/L	460	430	400	390	440	480	440	480	420	330	430	550	390	320	460	520	440	250	350	570

Notes:

ug/l - micrograms per liter.

mg/l = milligrams per liter.

su - standard pH units (pH is a field parameter)

pCi/L = picocuries per liter.

All metals were analyzed as total unless otherwise indicated.

Qualifiers:

U The analyte was analyzed for, but was not detected at, a level greater than or equal to the level of the adjusted reporting limit (RL) for the sample and method.

J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to the concentration of the analyte being below the RL).

J+ Same as J, and the reported concentration is potentially biased high.

J– Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Appendix D
Analytical Data Reporting Tables
Former J.B. Sims Generating Station
Renew Harbor Island

Sample Location:		MW-34	MW-34	MW-34	MW-34	MW-34	MW-34	MW-34	MW-34	MW-34	MW-34	MW-34	MW-34	MW-34	MW-34	MW-34	MW-34	MW-34	MW-34	MW-34	MW-34	MW-34
Compliance Phase:		Background	Background	Background	Background	Background	Background	Background	Background	Background	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment
Sample Date:		12/1/2022	1/5/2023	2/8/2023	3/15/2023	4/18/2023	5/22/2023	6/27/2023	8/7/2023	10/23/2023	2/12/2024	4/9/2024	7/18/2024	10/17/2024	2/26/2025	4/21/2025	8/12/2025	10/20/2025	2/17/2026	4/22/2026	8/12/2026
Sample Type:		Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
Unit:		Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2
Sample Matrix:		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Constituent	**Unit**																				
Field Parameters																					
Conductivity	mS/cm	2.14	1.07	1.96	1.49	1.86	1.89	2.05	2.05	1.93	1.82	1.8	2	1.9	1.83	1.86	1.98	2.032	1.95	1.79	2.19
Dissolved Oxygen	mg/L	0.87	1.19	0.29	0.45	1.05	2.73	0.09	0.97	0.7	1.92	0.05	0.33	0.82	0.14	0.15	0.29	0.21	0.52	0.44	0.06
Oxidation Reduction Potential	mV	-120.5	-104.4	-119.7	-95	-63.4	-100.5	-113.8	-124.6	-163.1	-98.9	-72.8	-139	-122.7	-30.7	-83.9	-71.8	-109.9	-119.1	-104.3	-130.8
pH	su	6.65	7.66	6.78	6.68	6.53	6.6	6.75	6.69	6.62	6.63	6.61	6.7	6.49	6.59	6.62	6.65	6.56	6.59	6.58	6.64
Temperature	deg c	12.9	4.9	9.4	7.8	8	10.3	12.4	14.6	14.8	9.8	8.9	14.2	15.2	9	8.8	6.3	15.5	8.9	9.9	15.7
Turbidity	NTU	4.96	0.02	5.58	2.11	5.87	0.02	0.02	3.15	1.77	4.76	1.39	1.6	2.76	3.11	1.26	6.32	7.81	8.6	6.4	1.34
Appendix III																					
Boron	mg/L	3.2	2.7	1.9	1.8	1.6	2.5	4.0 J+	3.6	4.1	1.9	1.8	2.9	2.2	2.1	1.9	2.6	3.9	1.9	1.6	3.0
Calcium	mg/L	220	190	220	210	210	210	220	190	220	210	230	220	200	220	210	220	240	230	220	220
Chloride	mg/L	33	27	24	23	23	22	23	24	25	20 J+	16	22	20	19	21	21	22	21	18	25
Fluoride	mg/L	0.35	0.20	0.23	0.24	0.21	0.23	0.26	0.29	0.28	0.21	0.22	0.31	0.096 J	0.22	0.32	0.40	0.38	0.33	0.29	0.55
Sulfate (as SO4)	mg/L	2.5 J	1.9 J	< 0.41 U	0.87 J	0.56 J	< 0.41 U	< 0.41 U	< 0.41 U	< 0.41 U	< 0.41 U	< 1.1 U	< 2.2 U	< 1.1 U	< 2.2 U	< 2.2 U	0.65 J	1.1 J	0.59 J	0.87 J	0.98 J
Total Dissolved Solids	mg/L	820	750	800	790	700	760	820	770	800	730	730	760	710	720	750	720	790	720	790	810
Appendix IV																					
Antimony	mg/L	0.00023 J	0.00011 J	0.000095 J	0.00013 J	0.00091 J	0.00010 J	0.00016 J	0.00015 J	0.00014 J	< 0.00050 U	0.00013 J	0.00029	0.00021 J	0.00019 J	0.00013 J	0.00013 J	0.00015 J	0.00015 J	0.00020 J	0.00012 J
Arsenic	mg/L	0.0016	0.0010	0.00088	0.00090	0.00089 J	0.0010	0.0013 J+	0.0012	0.0013	0.00017 J-	0.00085	0.0010	0.0010	0.00072	0.00075	0.00092	0.0011	0.00070	0.0013	0.0011
Barium	mg/L	0.54	0.54	0.58	0.50	0.17	0.49	0.53	0.49	0.52	0.066 J-	0.46	0.52	0.48	0.47	0.54	0.57	0.52	0.51	0.47	0.48
Beryllium	mg/L	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.00026 U	0.000059 J	< 0.000052 UJ	< 0.000052 U	< 0.000052 U	< 0.000052 UJ	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	0.000083 J	< 0.00010 U	< 0.00010 U
Cadmium	mg/L	0.000036 J	< 0.000032 U	< 0.000032 U	< 0.000032 U	< 0.00016 U	< 0.000075 U	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	< 0.00038 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U
Chromium, Total	mg/L	0.024	0.022	0.025	0.029	< 0.00088 U	0.027	0.034	0.028	0.019	0.0050 J+	0.026	0.023	0.023	0.018	0.025	0.024	0.025	0.021	0.024	0.022
Cobalt	mg/L	0.0015	0.0013	0.0013	0.0013	< 0.00050 U	0.0014	0.0018 J+	0.0016	0.0013	0.00061	0.0011	0.0010	0.0012	0.00090	0.0010	0.0011	0.0013	0.0015	0.0016	0.0012
Fluoride	mg/L	0.35	0.20	0.23	0.24	0.21	0.23	0.26	0.29	0.28	0.21	0.22	0.31	0.096 J	0.22	0.32	0.40	0.38	0.33	0.29	0.55
Lead	mg/L	0.0069	0.0016	0.00059	0.00094	< 0.0011 U	0.00074	0.00087 J+	0.00091	0.00063	< 0.00050 UJ	0.00038 J	0.00047 J	0.00049 J	0.00041 J	0.00028 J	0.00054 J	0.00058	0.00029 J	0.0014	0.00048 J
Lithium	mg/L	0.077	0.086	0.053	0.012	0.046	0.065	0.088	0.10	0.099	0.043	0.057	0.079	0.065	0.057	0.056	0.073	0.086	0.054	0.045	0.082
Mercury	mg/L	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	0.0000016	0.0000020	0.0000015	0.0000012	0.0000033	0.0000021
Molybdenum	mg/L	0.0018	0.00081 J	< 0.00062 U	< 0.00062 U	0.0079	0.0018	0.00030 J+	< 0.00025 U	< 0.00025 U	< 0.00025 UJ	< 0.00025 U	< 0.00025 U	0.00041 J	< 0.00025 U	< 0.00025 U	< 0.00025 U	< 0.00025 U	0.0021	0.00048 J	< 0.00032 U
Radium 226 and 228	pCi/L	2.02	1.15	1.28	1.34	1.99	1.81	2.79	1.24	2.4	1.86 J+	2.2	1.76	2.07	--	2.62	1.7	1.55	1.4	1.59	2.9
Radium-226	pCi/L	0.57	0.534	0.654	0.558	0.396	0.561	0.357	0.637 J+	0.699	0.527	0.602	0.427	0.369	--	< 0.656 U	< 0.391 U	0.59	0.452	0.329	0.93
Radium-228	pCi/L	1.45	< 0.849 U	< 0.918 U	0.78	1.59	1.25 J	2.44	< 0.862 U	1.7	1.33 J+	1.59	1.33	1.7	--	2.12	1.35	< 1.12 U	0.947	1.26	1.97
Selenium	mg/L	0.00034 J	0.00025 J	0.00027 J	0.00023 J	< 0.0011 U	0.00029 J	0.00030 J+	0.00027 J	0.00031 J	0.00039 J-	0.00028 J	0.00028 J	0.00030 J	0.00026 J	0.00026 J	0.00024 J	0.00029 J	0.00030 J	0.00016 J	0.00029 J
Thallium	mg/L	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.00038 U	< 0.000075 U	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	< 0.00038 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U
Total Suspended Solids	mg/L	110	52	83	44	160	160	170	130	150	120	160	150	140	97	160	140	130	100	110	150
Michigan CCR Part 115																					
Copper	mg/L	0.0034	0.00075	0.00033	0.0085	< 0.0010 U	0.00069	0.00045	0.00043	0.00045	0.00024 J	0.00040	0.00058	0.00055	0.00029	0.00028	0.00026	0.00049	0.00064	0.00087	0.00049
Iron	mg/L	73	70	83	78	75	77	77	64	70	72	76	65	59	64	69	72	55	72	50	59
Nickel	mg/L	0.0016	0.0013	0.0012	0.0013	< 0.0032 U	0.0016	0.0020	0.0018	0.0015	0.00089 J	0.011	0.019	0.028	0.041	0.012	0.011	0.0090	0.013	0.041	0.0022
Silver	mg/L	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.00025 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.00005 U	< 0.00025 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U
Vanadium	mg/L	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.0031 U	0.00065 J	0.00069 J	< 0.00062 U	< 0.00062 U	< 0.00062 U	0.00090 J	0.0011 J	0.0012	0.00078 J	0.0010 J	0.0010 J	0.0011 J	0.0013	0.0012	0.00084 J
Zinc	mg/L	0.031	0.0019	0.0023	0.0023	0.020	0.0015	0.0018	0.0017	0.0021	< 0.0012 UJ	0.0014	0.0033	0.021	0.0036	0.0026	0.0025	0.0021	0.038	0.049	0.036
Additional Parameters																					
Bicarbonate Alkalinity	mg/L	1100	950	920	890	880	950	970	970	1000	830	950	960	920	900	930	950	510	970	920	1000
Carbonate Alkalinity	mg/L	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.16 U	< 0.31 U	< 0.31 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.16 U
Magnesium	mg/L	30	23	22	21	20	24	27	26	29	23	25	25	22	23	24	25	26	24	21	24
Potassium	mg/L	11	13	9.5	8.5	8.4	8.9	12	13	13	8.8	8.0	10	8.6	8.3	8.2	9.7	12	7.9	9.4	10
Sodium	mg/L	34	30	28	22	23	30	38	33	38	26	25	29	25	26	24	27	31	22	18	26
Total Alkalinity	mg/L	1100	950	920	890	880	950	970	970	1000	830	950	960	920	900	930	950	510	970	920	1000

Notes:

ug/l - micrograms per liter.

mg/l = milligrams per liter.

su - standard pH units (pH is a field parameter)

pCi/L = picocuries per liter.

All metals were analyzed as total unless otherwise indicated.

Qualifiers:

U The analyte was analyzed for, but was not detected at, a level greater than or equal to the level of the adjusted reporting limit (RL) for the sample and method.

J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to the concentration of the analyte being below the RL).

J+ Same as J, and the reported concentration is potentially biased high.

J– Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Appendix D
Analytical Data Reporting Tables
Former J.B. Sims Generating Station
Renew Harbor Island

Sample Location:		MW-36	MW-36	MW-36	MW-36	MW-36	MW-36	MW-36	MW-36	MW-36	MW-36
Compliance Phase:		Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment
Sample Date:		4/8/2024	7/17/2024	10/16/2024	2/26/2025	4/21/2025	8/12/2025	10/21/2025	2/18/2026	4/21/2026	8/11/2026
Sample Type:		Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
Unit:		Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2
Sample Matrix:		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Constituent	**Unit**										
Field Parameters											
Conductivity	mS/cm	0.658	0.66	0.7	0.614	0.4807	0.78	0.828	0.709	0.73	0.73
Dissolved Oxygen	mg/L	0.08	0.02	0.01	0.06	0.12	0.06	0.11	0.23	0.06	0.12
Oxidation Reduction Potential	mV	-207.1	-331.7	-230.1	130.6	-223	-18.2	-192.3	-266.3	-319.9	-275.5
pH	su	10.42	9.89	8.79	9.54	8.95	8.97	7.07	9.26	9.22	8.65
Temperature	deg c	8.4	19.1	18.3	5.4	8.2	20.8	17.7	6.6	9.4	20.6
Turbidity	NTU	5.41	2.01	1.11	2.82	0.02	0.67	1.37	5.93	0.02	2.1
Appendix III											
Boron	mg/L	0.28	0.41	0.61	0.25	0.41	0.54	0.54	0.30	0.29	0.51
Calcium	mg/L	67	61	61	56	72	73	81	70	72	73
Chloride	mg/L	34	39	38	34	32	32	29	25	17	15
Fluoride	mg/L	0.61	0.65	0.92	0.61	0.72	0.90	0.68	0.67	0.53	0.53
Sulfate (as SO4)	mg/L	5.7 J	21	10	10	6.8	5.9 J	17	8.5	21	16
Total Dissolved Solids	mg/L	330	460	390	400	450	480	470	420	410	460
Appendix IV											
Antimony	mg/L	0.00076	0.0015	0.00075	0.0029	0.00076	0.00080	0.0020	0.00057	0.00082	0.0012
Arsenic	mg/L	0.029	0.029	0.013	0.012	0.0093	0.012	0.0071	0.0092	0.012	0.013
Barium	mg/L	0.15	0.17	0.20	0.13	0.25	0.25	0.23	0.17	0.22	0.19
Beryllium	mg/L	0.000059 J	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.00010 U	< 0.00010 U
Cadmium	mg/L	0.00032	0.00082	0.00019 J	0.00046	0.000094 J	0.00020 J	0.00015 J	0.00010 J	< 0.000075 U	< 0.000075 U
Chromium, Total	mg/L	0.0013	0.0031	0.0018	0.0021	0.0011	0.0015	0.00097	0.0011	0.00063	0.0011
Cobalt	mg/L	0.00027 J	0.00027 J	0.00018 J	0.00028 J	0.00018 J	0.00017 J	0.00016 J	0.00021 J	0.00017 J	0.00014 J
Fluoride	mg/L	0.61	0.65	0.92	0.61	0.72	0.90	0.68	0.67	0.53	0.53
Lead	mg/L	0.025	0.051	0.012	0.032	0.0060	0.016	0.010	0.0075	0.0045	0.0063
Lithium	mg/L	0.0057	0.0089	0.012	0.0042	0.010	0.014	0.012	0.0073	0.0092	0.012
Mercury	mg/L	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	0.0000063	0.0000099	0.0000039	0.000011	0.0000055	0.0000053
Molybdenum	mg/L	0.019	0.042	0.034	0.037	0.017	0.025	0.022	0.023	0.026	0.017
Radium 226 and 228	pCi/L	< 0.861 U	< 1.4 UJ	1.08	--	< 0.933 U	< 0.892 U	< 1.12 U	< 0.93 U	< 0.849 U	1.09
Radium-226	pCi/L	0.467	< 0.207 UJ	< 0.194 U	--	< 0.319 U	0.117 J+	< 0.353 U	< 0.126 U	< 0.26 U	0.419
Radium-228	pCi/L	< 0.861 U	< 1.4 UJ	0.959	--	< 0.933 U	0.151 J-	< 1.12 U	< 0.93 U	< 0.849 U	0.667
Selenium	mg/L	0.00060	0.00072	0.00065	0.00064	0.00049 J	0.00049 J	0.00046 J	0.00065	0.00090	0.00035 J
Thallium	mg/L	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U
Total Suspended Solids	mg/L	38	4.0 J+	< 4.0 U	5.0	< 4.0 U	< 4.0 U	< 4.1 U	< 4.1 U	22	< 4.0 U
Michigan CCR Part 115											
Copper	mg/L	0.0077	0.019	0.0086	0.011	0.0025	0.0041	0.0031	0.0026	0.0018	0.0025
Iron	mg/L	0.40	0.35	0.44	0.39	1.1	0.80	0.91	0.52	0.95	0.28
Nickel	mg/L	0.011	0.0084	0.0054	0.0066	0.0056	0.0048	0.0032	0.0048	0.0056	0.0025
Silver	mg/L	0.00021	0.00057	0.00011	0.00023	0.000051	0.00011	0.000077	0.000056	< 0.000050 U	0.000058
Vanadium	mg/L	0.0024	0.0052	0.0025	0.0052	0.0037	0.0032	0.0029	0.0033	0.0029	0.0027
Zinc	mg/L	0.0088	0.020	0.014	0.013	0.0042	0.0054	0.0038	0.024	0.023	0.0092
Additional Parameters											
Bicarbonate Alkalinity	mg/L	78	160	270	200	320	380	390	290	320	310
Carbonate Alkalinity	mg/L	120	110	34	97	39	< 0.31 UJ	< 0.16 U	71	< 0.31 U	45
Magnesium	mg/L	6.9	7.5	9.3	6.1	13	11	12	9.9	11	11
Potassium	mg/L	52	45	30	46	33	36	34	46	39	38
Sodium	mg/L	61	65	57	62	56	61	60	56	46	50
Total Alkalinity	mg/L	200	260	310	300	350	380	390	360	320	350

Notes:

ug/l - micrograms per liter.

mg/l = milligrams per liter.

su - standard pH units (pH is a field parameter)

pCi/L = picocuries per liter.

All metals were analyzed as total unless otherwise indicated.

Qualifiers:

U The analyte was analyzed for, but was not detected at, a level greater than or equal to the level of the adjusted reporting limit (RL) for the sample and method.

J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to the concentration of the analyte being below the RL).

J+ Same as J, and the reported concentration is potentially biased high.

J– Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Appendix D
Analytical Data Reporting Tables
Former J.B. Sims Generating Station
Renew Harbor Island

Sample Location:		MW-37	MW-37	MW-37	MW-37	MW-37	MW-37	MW-37	MW-37	MW-37	MW-37
Compliance Phase:		Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment
Sample Date:		4/8/2024	7/17/2024	10/15/2024	2/3/2025	4/20/2025	8/12/2025	10/21/2025	2/18/2026	4/21/2026	8/11/2026
Sample Type:		Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
Unit:		Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2
Sample Matrix:		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Constituent	**Unit**										
Field Parameters											
Conductivity	mS/cm	1.16	1.24	1	1.09	1	1.05	0.957	1.14	0.77	0.93
Dissolved Oxygen	mg/L	1.04	0.04	0.01	0.89	0.14	0.18	0.18	0.26	5.35	0.18
Oxidation Reduction Potential	mV	-19	65	6.7	74.1	-72.7	-8.9	-90.6	-126.1	131.2	-26.1
pH	su	7.47	7.15	7.21	7.16	7.42	7.28	7.24	7.56	7.47	7.1
Temperature	deg c	9	17.8	18.1	7.9	9.3	19.5	17.5	7.3	9.5	19.1
Turbidity	NTU	0.02	0.02	7.46	0.02	0.5	1.21	0.87	0.02	0.02	2.7
Appendix III											
Boron	mg/L	5.2	3.9	1.9	5.9	4.8	4.0	2.8	3.7	0.90	2.5
Calcium	mg/L	160	160	120	160	140	140	140	200	110	140
Chloride	mg/L	22	29	40	15	15	15	18	9.7	3.0	4.3
Fluoride	mg/L	0.63	0.39	0.50	0.40	0.50	0.60	0.58	0.52	0.49	0.43
Sulfate (as SO4)	mg/L	210	260	110	270	260	230	110	320	130	180
Total Dissolved Solids	mg/L	790	840	630	780	700	720	620	800	530	660
Appendix IV											
Antimony	mg/L	0.00064	0.00040	0.00023 J	0.00011 J	0.00017 J	0.00017 J	0.00016 J+	< 0.00010 U	0.0012	0.00032
Arsenic	mg/L	0.00055	0.00046 J	0.00046 J	0.00074	0.00061	0.00073	0.0011	0.00064	0.00066	0.00053 J
Barium	mg/L	0.040	0.046	0.044	0.074	0.067	0.070	0.082	0.098	0.035	0.056
Beryllium	mg/L	< 0.000052 U	< 0.000052 U	< 0.000052 U	0.000076 J	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.00010 U	< 0.00010 U
Cadmium	mg/L	0.00012 J	0.00013 J	0.00011 J	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	0.000090 J	0.00013 J
Chromium, Total	mg/L	0.00039	0.00054	0.00027	0.00028	0.00036	0.00026	0.0015 J+	0.00022 J	0.00087	0.00033
Cobalt	mg/L	0.00075	0.00053	0.00051 J	0.00076	0.00038 J	0.00044 J	0.00056	0.00029 J	0.00025 J	0.00041 J
Fluoride	mg/L	0.63	0.39	0.50	0.40	0.50	0.60	0.58	0.52	0.49	0.43
Lead	mg/L	0.00017 J	0.00013 J	< 0.00010 U	< 0.00010 U	0.00058	0.00052 J	0.010 J+	0.00011 J	0.00017 J	0.0012
Lithium	mg/L	0.020	0.022	0.019	0.0093	0.0097	0.016	0.014	0.011	0.037	0.026
Mercury	mg/L	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	0.0000016	0.0000018	0.0000065 J+	0.0000011	0.0000028	0.0000016
Molybdenum	mg/L	0.015	0.0075	0.0064	0.012	0.013	0.0094	0.0064	0.0095	0.018	0.0081
Radium 226 and 228	pCi/L	< 0.569 U	< 0.764 U	< 0.96 UJ	0.95	1.09	< 0.572 U	< 0.774 UJ	1.02	0.922	0.921
Radium-226	pCi/L	< 0.142 U	0.104	< 0.226 UJ	0.67	< 0.319 U	< 0.289 U	< 0.331 U	< 0.122 U	< 0.247 U	0.921
Radium-228	pCi/L	< 0.569 U	< 0.764 U	< 0.96 UJ	< 0.43 U	1.09	< 0.572 U	< 0.774 UJ	0.981	< 0.801 U	< 0.536 U
Selenium	mg/L	0.0046	0.0030	0.0018	0.00065	0.00091	0.0011	0.00069	0.00047 J	0.0095	0.0011
Thallium	mg/L	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	0.000089 J
Total Suspended Solids	mg/L	< 4.0 U	3.9 J	< 4.0 U	< 4.0 U	< 4.0 U	< 4.0 U	< 4.1 UJ	4.0	< 4.0 U	< 4.0 U
Michigan CCR Part 115											
Copper	mg/L	0.013	0.014	0.014	0.0067	0.0088	0.012	0.041 J+	0.0052	0.0060	0.014
Iron	mg/L	0.16	< 0.026 U	0.026 J	2.1	1.7	0.90	2.3	3.4	0.029 J	0.054
Nickel	mg/L	0.0046	0.0052	0.0039	0.0029	0.0029	0.0037	0.0035 J+	0.0017	0.0017	0.0032
Silver	mg/L	< 0.000050 U	< 0.000050 U	0.00017 J+	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U
Vanadium	mg/L	< 0.00062 U	< 0.00062 U	< 0.00062 U	0.00067 J	< 0.00062 U	0.00039 J	0.00073 J+	0.00030 J	< 0.00028 U	0.00038 J
Zinc	mg/L	0.017	0.017	0.011	0.015	0.0097	0.011	0.018 J+	0.020	0.028	0.028
Additional Parameters											
Bicarbonate Alkalinity	mg/L	310	340	350	340	290	330	360	320	270	320
Carbonate Alkalinity	mg/L	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.16 U
Magnesium	mg/L	13	12	9.8	12	9.9	11	9.6	14	10	11
Potassium	mg/L	18	20	18	13	19	20	19	21	31	31
Sodium	mg/L	100	98	57	68	58	49	46	35	20	25
Total Alkalinity	mg/L	310	340	350	340	290	330	360	320	270	320

Notes:

ug/l - micrograms per liter.

mg/l = milligrams per liter.

su - standard pH units (pH is a field parameter)

pCi/L = picocuries per liter.

All metals were analyzed as total unless otherwise indicated.

Qualifiers:

U The analyte was analyzed for, but was not detected at, a level greater than or equal to the level of the adjusted reporting limit (RL) for the sample and method.

J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to the concentration of the analyte being below the RL).

J+ Same as J, and the reported concentration is potentially biased high.

J– Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Appendix D
Analytical Data Reporting Tables
Former J.B. Sims Generating Station
Renew Harbor Island

Sample Location:		MW-38	MW-38	MW-38	MW-38	MW-38	MW-38	MW-38	MW-38	MW-38	MW-38
Compliance Phase:		Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment
Sample Date:		4/8/2024	7/17/2024	10/16/2024	2/26/2025	4/20/2025	8/12/2025	10/21/2025	2/18/2026	4/21/2026	8/11/2026
Sample Type:		Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
Unit:		Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B
Sample Matrix:		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Constituent	**Unit**										
Field Parameters											
Conductivity	mS/cm	1.27	1.18	1.3	0.91	0.587	0.64	0.891	0.579	8.88	0.87
Dissolved Oxygen	mg/L	0.4	0.17	0.13	0.33	1.51	0.27	0.24	1.04	0.61	0.22
Oxidation Reduction Potential	mV	-207.4	-25.1	-69.8	-5.7	-102.8	12	-200.1	-51.7	59.4	-356.6
pH	su	10	9.23	9	9.12	9.17	8.33	9.59	9.02	13.04	11.12
Temperature	deg c	11.7	20.6	16.9	6	8.1	23.2	16.7	7.5	10	20.1
Turbidity	NTU	7.83	0.02	0.02	8.46	3.32	2.01	11.4	11.9	0.02	9.31
Appendix III											
Boron	mg/L	1.6	2.4	3.0	1.2	0.47	2.1	1.9	0.54	0.022	1.3
Calcium	mg/L	150	96	110	74	72	91	560	87	630	61
Chloride	mg/L	51	57	58	42	11	34	31	14	10	27
Fluoride	mg/L	0.79	1.0	1.8	0.83	0.63	1.2	0.88	0.59	0.68	1.0
Sulfate (as SO4)	mg/L	280	170	210	130	210	120	110	160	15	43
Total Dissolved Solids	mg/L	840	850	980	350	460	580	620	390	1800	440
Appendix IV											
Antimony	mg/L	0.00068	0.0017	0.0011	0.0018	0.0013	0.00031	< 0.00010 U	0.00066	< 0.00050 U	0.0030
Arsenic	mg/L	0.0050	0.0071	0.0033	0.0057	0.0050	0.0025	0.0023	0.0032	0.00057 J	0.010
Barium	mg/L	0.16	0.12	0.17	0.070	0.036	0.11	0.073	0.048	0.57	0.071
Beryllium	mg/L	< 0.000052 U	0.000067 J	0.000090 J	< 0.000052 U	< 0.000052 U	< 0.000052 U	0.000055 J	< 0.000052 U	< 0.00050 U	< 0.00010 U
Cadmium	mg/L	0.000096 J	0.00037	0.00015 J	0.00049	< 0.000075 U	< 0.000075 U	< 0.000075 U	0.00016 J	< 0.00038 U	0.00055
Chromium, Total	mg/L	0.0040	0.016	0.0072	0.013	0.0039	0.0044	0.012	0.0028	< 0.0010 U	0.0098
Cobalt	mg/L	0.00053	0.00071	0.00055	0.00079	0.00025 J	0.00029 J	0.00049 J	0.00028 J	0.0031	0.00077
Fluoride	mg/L	0.79	1.0	1.8	0.83	0.63	1.2	0.88	0.59	0.68	1.0
Lead	mg/L	0.015	0.086	0.023	0.060	0.0076	0.0053	< 0.00050 U	0.0099	0.0021 J	0.075
Lithium	mg/L	0.12	0.098	0.12	0.094	0.047	0.12	0.14	0.055	0.20	0.085
Mercury	mg/L	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	0.0000093	0.000021	0.000032	0.000027	0.000013	0.00003
Molybdenum	mg/L	0.0097	0.014	0.0095	0.023	0.025	0.0064	0.0010 J	0.013	0.0059 J	0.025
Radium 226 and 228	pCi/L	1.21	< 1.72 U	2.12	--	< 2.65 U	< 1.03 U	< 1.5 U	< 1.96 U	2	0.538
Radium-226	pCi/L	0.492	< 0.314 U	0.278	--	< 0.988 U	< 0.469 U	< 0.456 U	< 0.511 U	0.823	0.382
Radium-228	pCi/L	< 1.08 U	< 1.72 U	1.84	--	< 2.65 U	< 1.03 U	< 1.5 U	< 1.96 U	1.17	< 0.468 U
Selenium	mg/L	0.00073	0.00095	0.00059	0.0010	0.0015	0.00046 J	0.00012 J	0.00069	0.0020 J	0.00088
Thallium	mg/L	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.00038 U	< 0.000075 U	< 0.00038 U	< 0.000075 U
Total Suspended Solids	mg/L	160	53	< 4.0 U	45	7.0	< 4.0 U	< 4.0 U	< 4.0 U	< 4.0 U	100
Michigan CCR Part 115											
Copper	mg/L	0.0031	0.020	0.0063	0.018	0.0037	0.00098	< 0.00020 U	0.0045	0.031	0.026
Iron	mg/L	0.39	1.0	0.51	1.4	0.13	0.26	3.3	0.20	0.032 J	1.0
Nickel	mg/L	0.0053	0.0096	0.0067	0.0083	0.0038	0.0038	0.00071 J	0.0033	0.027	0.0097
Silver	mg/L	< 0.000050 U	0.00019	0.000065	0.00015	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.00025 U	0.00019
Vanadium	mg/L	0.0066	0.010	0.0053	0.015	0.014	0.0081	< 0.00028 U	0.0049	< 0.0014 U	0.013
Zinc	mg/L	0.0066	0.020	0.015	0.021	0.0039	0.0038	< 0.00048 U	0.015	0.045	0.027
Additional Parameters											
Bicarbonate Alkalinity	mg/L	270	300	380	230	55	260	150	80	2000	81
Carbonate Alkalinity	mg/L	12	50	60	75	43	< 0.31 U	90	29	< 0.31 U	140
Magnesium	mg/L	18	13	18	7.4	1.3	10	120	2.5	0.028 J	1.2
Potassium	mg/L	91	86	88	82	44	75	15	41	260	72
Sodium	mg/L	97	100	100	96	36	74	290	40	100	58
Total Alkalinity	mg/L	280	350	440	300	98	260	240	110	2000	220

Notes:

ug/l - micrograms per liter.

mg/l = milligrams per liter.

su - standard pH units (pH is a field parameter)

pCi/L = picocuries per liter.

All metals were analyzed as total unless otherwise indicated.

Qualifiers:

U The analyte was analyzed for, but was not detected at, a level greater than or equal to the level of the adjusted reporting limit (RL) for the sample and method.

J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to the concentration of the analyte being below the RL).

J+ Same as J, and the reported concentration is potentially biased high.

J– Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Appendix D
Analytical Data Reporting Tables
Former J.B. Sims Generating Station
Renew Harbor Island

Sample Location:		MW-39	MW-39	MW-39	MW-39	MW-39
Compliance Phase:		Assessment	Assessment	Assessment	Assessment	Assessment
Sample Date:		8/13/2025	10/21/2025	2/19/2026	4/23/2026	8/12/2026
Sample Type:		Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
Unit:		Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B
Sample Matrix:		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Constituent	**Unit**					
Field Parameters						
Conductivity	mS/cm	1.21	1.293	1.76	1.28	1.21
Dissolved Oxygen	mg/L	0.14	0.15	0.69	0.33	0.09
Oxidation Reduction Potential	mV	74.5	-142.6	-86.8	-123.9	-210.1
pH	su	7.3	7.2	7.21	7.14	7.24
Temperature	deg c	20.4	18	6.1	10.6	19.7
Turbidity	NTU	8.5	9.02	4.84	4.42	7.37
Appendix III						
Boron	mg/L	1.4	1.3	0.91	0.71	1.1
Calcium	mg/L	200	200	290	230	180
Chloride	mg/L	13	12	18	5.7	23
Fluoride	mg/L	0.49	0.36	0.22	0.21	0.29
Sulfate (as SO4)	mg/L	48	37	470	410	26
Total Dissolved Solids	mg/L	710	760	1200	930	710
Appendix IV						
Antimony	mg/L	0.00013 J	0.00012 J	0.00086	0.00019 J	< 0.00010 U
Arsenic	mg/L	0.0012	0.00082	0.0020	0.0019	0.0011
Barium	mg/L	0.11	0.14	0.066	0.064	0.14
Beryllium	mg/L	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.00010 U	< 0.00010 U
Cadmium	mg/L	0.00013 J	< 0.000075 U	0.00079	0.00098	0.00022 J
Chromium, Total	mg/L	0.0069	0.0062	0.0016	0.0017	0.0030
Cobalt	mg/L	0.00037 J	0.00037 J	0.0024	0.0014	0.00039 J
Fluoride	mg/L	0.49	0.36	0.22	0.21	0.29
Lead	mg/L	0.00015 J	0.00013 J	0.0015	0.0037	0.00076
Lithium	mg/L	0.023	0.020	0.028	0.029	0.028
Mercury	mg/L	0.0000017	0.0000012	0.0000028	0.0000089	0.0000019
Molybdenum	mg/L	0.00026 J	0.00033 J	0.0026	0.0031	0.00040 J
Radium 226 and 228	pCi/L	1.2	< 1.12 U	< 0.726 U	< 0.597 U	< 0.519 U
Radium-226	pCi/L	< 0.452 U	< 0.353 U	< 0.181 U	< 0.119 U	0.317
Radium-228	pCi/L	1.03	< 1.12 U	< 0.726 U	< 0.597 U	< 0.519 U
Selenium	mg/L	0.00030 J	0.00027 J	0.0012	0.0017	0.00023 J
Thallium	mg/L	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U
Total Suspended Solids	mg/L	14	< 4.0 U	28	27	30
Michigan CCR Part 115						
Copper	mg/L	0.00047	0.00028	0.0017	0.0040	0.00067
Iron	mg/L	6.0	3.2	4.5	8.2	7.2
Nickel	mg/L	0.0021	0.0018	0.021	0.015	0.0014
Silver	mg/L	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U
Vanadium	mg/L	0.00097 J	0.00095 J	0.00080 J	< 0.00028 U	0.00066 J
Zinc	mg/L	0.0091	0.0015	0.078	0.073	0.019
Additional Parameters						
Bicarbonate Alkalinity	mg/L	580	670	460	340	590
Carbonate Alkalinity	mg/L	< 0.31 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.16 U
Magnesium	mg/L	33	36	49	23	27
Potassium	mg/L	9.7	9.2	7.2	14	9.6
Sodium	mg/L	25	25	28	21	24
Total Alkalinity	mg/L	580	670	460	340	590

Notes:

ug/l - micrograms per liter.

mg/l = milligrams per liter.

su - standard pH units (pH is a field parameter)

pCi/L = picocuries per liter.

All metals were analyzed as total unless otherwise indicated.

Qualifiers:

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J+ Same as J, and the reported concentration is potentially biased high.

J– Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Appendix D
Analytical Data Reporting Tables
Former J.B. Sims Generating Station
Renew Harbor Island

Sample Location:		MW-41	MW-41	MW-41	MW-41
Compliance Phase:		Post Development Sample	Assessment	Assessment	Assessment
Sample Date:		12/23/2025	2/17/2026	4/22/2026	8/10/2026
Sample Type:		Field Sample	Field Sample	Field Sample	Field Sample
Unit:		Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2
Sample Matrix:		Groundwater	Groundwater	Groundwater	Groundwater
Constituent	**Unit**				
Field Parameters					
Conductivity	mS/cm	2.739	3.46	2.68	2.37
Dissolved Oxygen	mg/L	7.01	2.56	1.63	0.16
Oxidation Reduction Potential	mV	38.8	85.7	-60.1	-101.2
pH	su	7.63	7.75	7.31	7.16
Temperature	deg c	9.8	7.5	9.4	20.1
Turbidity	NTU	66.8	42.7	2.61	1.76
Appendix III					
Boron	mg/L	27	28	7.7	7.6
Calcium	mg/L	210	220	300	240
Chloride	mg/L	490	420	170	130
Fluoride	mg/L	1.4	1.1	1.1	1.2
Sulfate (as SO4)	mg/L	230	610	720	530
Total Dissolved Solids	mg/L	2200	2300	2000	1800
Appendix IV					
Antimony	mg/L	0.00092	0.00029	0.0016	0.00048
Arsenic	mg/L	0.0042	0.0022	0.0022	0.0067
Barium	mg/L	0.22	0.21	0.099	0.11
Beryllium	mg/L	0.00018 J	0.000093 J	< 0.00010 U	< 0.00010 U
Cadmium	mg/L	0.00015 J	0.000080 J	0.000075 J	< 0.000075 U
Chromium, Total	mg/L	0.0081	0.0036	0.013	0.0031
Cobalt	mg/L	0.0017	0.0012	0.00063	0.0028
Fluoride	mg/L	1.4	1.1	1.1	1.2
Lead	mg/L	0.0068	0.0040	0.00019 J	0.00083
Lithium	mg/L	0.45	0.57	0.23	0.26
Mercury	mg/L	0.000014	0.000016	0.0000033	0.0000030
Molybdenum	mg/L	0.018	0.0081	0.022	0.025
Radium 226 and 228	pCi/L	1.14	< 0.838 U	< 0.762 U	< 0.577 U
Radium-226	pCi/L	0.552	0.271	0.171	< 0.258 U
Radium-228	pCi/L	< 0.8 U	< 0.838 U	< 0.762 U	< 0.577 U
Selenium	mg/L	0.0021	0.00050	0.021	0.0016
Thallium	mg/L	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U
Total Suspended Solids	mg/L	140	65	4.0	16
Michigan CCR Part 115					
Copper	mg/L	--	0.0025	0.0061	0.0034
Iron	mg/L	5.2	5.1	0.87	4.7
Nickel	mg/L	0.0058	0.0032	0.0039	0.0076
Silver	mg/L	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U
Vanadium	mg/L	0.0086	0.0031	0.0057	0.0052
Zinc	mg/L	0.031	0.024	0.018	0.011
Additional Parameters					
Bicarbonate Alkalinity	mg/L	--	790	580	690
Carbonate Alkalinity	mg/L	--	< 0.16 U	< 0.31 U	< 0.16 U
Magnesium	mg/L	--	120	150	130
Potassium	mg/L	--	33	18	21
Sodium	mg/L	--	420	130	110
Total Alkalinity	mg/L	--	790	580	690

Notes:

ug/l - micrograms per liter.
mg/l = milligrams per liter.
su - standard pH units (pH is a field parameter)
pCi/L = picocuries per liter.
All metals were analyzed as total unless otherwise indicated.

Qualifiers:

U The analyte was analyzed for, but was not detected at, a level greater than or equal to the level of the adjusted reporting limit (RL) for the sample and method.
J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to the concentration of the analyte being below the RL).
J+ Same as J, and the reported concentration is potentially biased high.
J– Same as J, and the reported concentration is potentially biased low.
UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.
R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Appendix D
Analytical Data Reporting Tables
Former J.B. Sims Generating Station
Renew Harbor Island

Sample Location:		MW-42	MW-42	MW-42	MW-42
Compliance Phase:		Post Development Sample	Assessment	Assessment	Assessment
Sample Date:		12/23/2025	2/18/2026	4/21/2026	8/10/2026
Sample Type:		Field Sample	Field Sample	Field Sample	Field Sample
Unit:		Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2
Sample Matrix:		Groundwater	Groundwater	Groundwater	Groundwater
Constituent	**Unit**				
Field Parameters					
Conductivity	mS/cm	1.931	2.81	1.49	1.8
Dissolved Oxygen	mg/L	0.23	0.17	0.27	0.07
Oxidation Reduction Potential	mV	-67.5	-43.2	-140.7	-81.4
pH	su	6.95	6.76	6.86	6.59
Temperature	deg c	7.2	5.1	9.7	20.2
Turbidity	NTU	18.5	6.94	4.32	9.21
Appendix III					
Boron	mg/L	1.6	1.2	1.2	2.4
Calcium	mg/L	340	350	200	220
Chloride	mg/L	230	130	43	170
Fluoride	mg/L	0.32	0.27	0.36	0.27
Sulfate (as SO4)	mg/L	720	960	410	320
Total Dissolved Solids	mg/L	1900	2000	1000	1300
Appendix IV					
Antimony	mg/L	0.00028	0.00072	0.00016 J	0.00026
Arsenic	mg/L	0.0013	0.00085	0.0011	0.0017
Barium	mg/L	0.11	0.070	0.065	0.12
Beryllium	mg/L	< 0.000052 U	< 0.000052 U	< 0.00010 U	< 0.00010 U
Cadmium	mg/L	0.0010	0.0037	0.00045	0.00086
Chromium, Total	mg/L	0.00081	0.00048	0.00027	0.00062
Cobalt	mg/L	0.0091	0.016	0.0035	0.0052
Fluoride	mg/L	0.32	0.27	0.36	0.27
Lead	mg/L	0.011	0.011	0.0026	0.019
Lithium	mg/L	0.13	0.13	0.10	0.14
Mercury	mg/L	0.0000058	0.000012	0.0000030	0.0000050
Molybdenum	mg/L	0.0019	0.0022	0.0026	0.0019
Radium 226 and 228	pCi/L	1.04	0.938	1.86	1
Radium-226	pCi/L	< 0.298 U	< 0.121 U	0.875	< 0.262 U
Radium-228	pCi/L	0.748	0.905	0.99	0.762
Selenium	mg/L	0.0022	0.0029	0.00022 J	0.00031 J
Thallium	mg/L	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U
Total Suspended Solids	mg/L	51	16	21	32
Michigan CCR Part 115					
Copper	mg/L	--	0.032	0.0057	0.017
Iron	mg/L	19	6.5	9.0	14
Nickel	mg/L	0.43	1.8	0.41	0.50
Silver	mg/L	0.000053	0.000059	< 0.000050 U	0.000054
Vanadium	mg/L	0.00051 J	0.00032 J	< 0.00028 U	0.00039 J
Zinc	mg/L	0.56	3.5	0.54	0.61
Additional Parameters					
Bicarbonate Alkalinity	mg/L	--	450	400	400
Carbonate Alkalinity	mg/L	--	< 0.16 U	< 0.31 U	< 0.16 U
Magnesium	mg/L	--	130	62	65
Potassium	mg/L	--	18	8.4	11
Sodium	mg/L	--	89	40	60
Total Alkalinity	mg/L	--	450	400	400

Notes:

ug/l - micrograms per liter.
mg/l = milligrams per liter.
su - standard pH units (pH is a field parameter)
pCi/L = picocuries per liter.
All metals were analyzed as total unless otherwise indicated.

Qualifiers:

U The analyte was analyzed for, but was not detected at, a level greater than or equal to the level of the adjusted reporting limit (RL) for the sample and method.
J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to the concentration of the analyte being below the RL).
J+ Same as J, and the reported concentration is potentially biased high.
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R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Appendix D
Analytical Data Reporting Tables
Former J.B. Sims Generating Station
Renew Harbor Island

Sample Location:		MW-43	MW-43	MW-43	MW-43
Compliance Phase:		Post Development Sample	Assessment	Assessment	Assessment
Sample Date:		12/22/2025	2/19/2026	4/22/2026	8/11/2026
Sample Type:		Field Sample	Field Sample	Field Sample	Field Sample
Unit:		Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2
Sample Matrix:		Groundwater	Groundwater	Groundwater	Groundwater
Constituent	**Unit**				
Field Parameters					
Conductivity	mS/cm	0.76	0.93	0.616	0.76
Dissolved Oxygen	mg/L	0.1	0.22	0.17	0.15
Oxidation Reduction Potential	mV	21.4	-132.9	-65.7	-146.9
pH	su	7.69	7.53	7.42	7.49
Temperature	deg c	8	5.2	11	18.7
Turbidity	NTU	0.02	0.02	0.02	0.02
Appendix III					
Boron	mg/L	62	33	13	18
Calcium	mg/L	99	95	76	97
Chloride	mg/L	7.0	7.3	1.5	14
Fluoride	mg/L	9.8	7.6	5.9	7.2
Sulfate (as SO4)	mg/L	180	120	22	20
Total Dissolved Solids	mg/L	890	570	410	530
Appendix IV					
Antimony	mg/L	0.026	0.012	0.0041	0.00039
Arsenic	mg/L	0.011	0.0054	0.0076	0.0094
Barium	mg/L	0.86	0.62	0.72	0.95
Beryllium	mg/L	0.00011 J	0.000084 J	< 0.00010 U	< 0.00010 U
Cadmium	mg/L	0.011	0.0096	0.0093	0.00065
Chromium, Total	mg/L	0.00055	0.00029	0.00032	0.00047
Cobalt	mg/L	0.27	0.16	0.11	0.050
Fluoride	mg/L	9.8	7.6	5.9	7.2
Lead	mg/L	0.00066	0.00020 J	< 0.00010 U	0.00039 J
Lithium	mg/L	0.59	0.35	0.18	0.19
Mercury	mg/L	0.0000016	0.00000094	< 0.00000016 U	0.00000054
Molybdenum	mg/L	0.0091	0.0062	0.0052	0.0034
Radium 226 and 228	pCi/L	< 0.381 U	0.929	< 0.562 U	< 0.515 U
Radium-226	pCi/L	0.169	< 0.176 U	< 0.0994 U	< 0.25 U
Radium-228	pCi/L	< 0.381 U	0.833	< 0.562 U	< 0.515 U
Selenium	mg/L	0.037	0.023	0.0048	0.00089
Thallium	mg/L	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U
Total Suspended Solids	mg/L	< 4.0 U	< 4.1 U	< 4.0 U	< 3.9 U
Michigan CCR Part 115					
Copper	mg/L	--	0.0027	0.0027	0.00058
Iron	mg/L	0.13	0.21	0.17	1.5
Nickel	mg/L	0.36	0.22	0.19	0.082
Silver	mg/L	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U
Vanadium	mg/L	0.0012	0.0011 J	0.00076 J	0.00041 J
Zinc	mg/L	0.18	0.15	0.14	0.017
Additional Parameters					
Bicarbonate Alkalinity	mg/L	--	320	300	350
Carbonate Alkalinity	mg/L	--	< 0.16 U	< 0.31 U	< 0.16 U
Magnesium	mg/L	--	15	11	14
Potassium	mg/L	--	18	15	18
Sodium	mg/L	--	73	37	46
Total Alkalinity	mg/L	--	320	300	350

Notes:

ug/l - micrograms per liter.
mg/l = milligrams per liter.
su - standard pH units (pH is a field parameter)
pCi/L = picocuries per liter.
All metals were analyzed as total unless otherwise indicated.

Qualifiers:

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J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to the concentration of the analyte being below the RL).
J+ Same as J, and the reported concentration is potentially biased high.
J– Same as J, and the reported concentration is potentially biased low.
UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.
R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Appendix D
Analytical Data Reporting Tables
Former J.B. Sims Generating Station
Renew Harbor Island

Sample Location:		SG-01	SG-01	SG-01	SG-01	SG-01	SG-01	SG-01	SG-01	SG-01	SG-01	SG-01
Compliance Phase:		Background	Background	Background	Background	Background	Background	Background	Background	Assessment	Assessment	Assessment
Sample Date:		12/2/2022	1/5/2023	2/8/2023	3/15/2023	4/19/2023	5/23/2023	6/28/2023	8/8/2023	10/23/2023	2/14/2024	4/10/2024
Sample Type:		No Sample Taken	No Sample Taken	No Sample Taken	No Sample Taken	No Sample Taken	No Sample Taken	No Sample Taken	No Sample Taken	No Sample Taken	No Sample Taken	No Sample Taken
Unit:		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Sample Matrix:												
Constituent	**Unit**											

Notes:

ug/l - micrograms per liter.

mg/l = milligrams per liter.

su - standard pH units (pH is a field parameter)

pCi/L = picocuries per liter.

All metals were analyzed as total unless otherwise indicated.

Qualifiers:

U The analyte was analyzed for, but was not detected at, a level greater than or equal to the level of the adjusted reporting limit (RL) for the sample and method.

J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to

J+ Same as J, and the reported concentration is potentially biased high.

J– Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to not many of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Appendix D
Analytical Data Reporting Tables
Former J.B. Sims Generating Station
Renew Harbor Island

Sample Location:		SG-02	SG-02	SG-02	SG-02	SG-02	SG-02	SG-02	SG-02	SG-02	SG-02	SG-02	SG-02	SG-02	SG-02	SG-02	SG-02	SG-02	SG-02	SG-02	SG-02
Compliance Phase:		Background	Background	Background	Background	Background	Background	Background	Background	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment
Sample Date:		12/2/2022	1/5/2023	2/6/2023	3/14/2023	4/19/2023	5/23/2023	6/28/2023	8/8/2023	10/24/2023	2/14/2024	4/10/2024	7/17/2024	10/17/2024	2/27/2025	4/22/2025	8/14/2025	10/23/2025	2/19/2026	4/23/2026	8/13/2026
Sample Type:		Field Sample	Field Sample	No Sample Taken	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	No Sample Taken	Field Sample	No Sample Taken	No Sample Taken	No Sample Taken	Field Sample	Field Sample
Unit:		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Sample Matrix:		Surface Water	Surface Water		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water		Surface Water					
Constituent	**Unit**																				
Field Parameters																					
Conductivity	mS/cm	1.42	1	--	0.898	0.93	1.03	1.56	1.66	1.47	0.84	0.99	1.57	1.45	--	0.69	--	--	--	1.21	1.38
Dissolved Oxygen	mg/L	5.28	9.57	--	4.27	10.32	7.83	8.9	9.54	8.29	14.38	9.31	7.69	8.44	--	9.53	--	--	--	8.22	7.97
Oxidation Reduction Potential	mV	147.3	-25.2	--	131.1	13.3	16.1	25.6	69.3	-44.9	135.6	-32.5	-39.7	78.5	--	33.2	--	--	--	47.6	38.3
pH	su	8.02	8.38	--	8	8.23	9.14	8.52	8.7	8.15	8.01	8.38	7.86	7.67	--	8.38	--	--	--	7.74	8.41
Temperature	deg c	2.8	3.5	--	2.7	8.9	26.6	26.2	29.6	17.5	3.6	14.8	28.2	12.4	--	14.8	--	--	--	20.1	26
Turbidity	NTU	1.62	0.02	--	1.2	2.41	6.62	4.2	3.26	6.09	0.46	3.59	1.34	7.03	--	9.08	--	--	--	3.96	6.85
Appendix III																					
Boron	mg/L	4.0	2.2	--	2.1	2.0	2.8	5.6 J+	6.9	7	3.5	3.1	8.1	7.3	--	2.6	--	--	--	2.2	5.5
Calcium	mg/L	210	140	--	140	130	150	210	170	180	140	140	170	160	--	100	--	--	--	200	140
Chloride	mg/L	75	46	--	41	37	40	86	120	99	52	36	120	110	--	54	--	--	--	39	88
Fluoride	mg/L	2.6	1.9	--	2.3	2.6	3.3	4.6	5.1	3.6	2.2	2.1	4.5	3.7	--	2.5	--	--	--	1.5	2.6
Sulfate (as SO4)	mg/L	620	360	--	350	400	430	620	640	530	380	340	540	490	--	270	--	--	--	480	510
Total Dissolved Solids	mg/L	1100	660	--	580	680	740	1200	1400	1100	690	690	1100	1100	--	560	--	--	--	880	1000
Appendix IV																					
Antimony	mg/L	0.00051	0.00043	--	0.00066	0.00058 J	0.0012	0.00085	0.0011	0.00061	0.00038	0.00088	0.0011	0.00076	--	0.00079	--	--	--	0.00050	0.00044
Arsenic	mg/L	0.0019	0.0012	--	0.0018	0.0017 J	0.0032	0.0037	0.0091	0.0023	0.0012	0.0017	0.0086	0.0020	--	0.0014	--	--	--	0.0012	0.0015
Barium	mg/L	0.049	0.033	--	0.034	0.22	0.080	0.13	0.11	0.06	0.037	0.045	0.12	0.060	--	0.049	--	--	--	0.051	0.053
Beryllium	mg/L	0.000060 J	< 0.000052 U	--	< 0.000052 U	< 0.00027 U	< 0.000052 U	0.00029	0.00014 J	< 0.000052 U	< 0.000052 U	< 0.000052 U	0.000057 J	< 0.000052 U	--	0.000078 J	--	--	--	< 0.00010 U	< 0.00010 U
Cadmium	mg/L	< 0.000032 U	< 0.000032 U	--	< 0.000032 U	< 0.00017 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	--	< 0.000075 U	--	--	--	< 0.000075 U	0.00039
Chromium, Total	mg/L	0.00038	0.00024 J	--	0.00057	< 0.00091 U	0.00046	0.00091	0.00080	0.00036	0.00025	0.00045	0.00064	0.00034	--	0.00036	--	--	--	0.00029	0.0011
Cobalt	mg/L	0.00021 J	0.00022 J	--	0.00028 J	< 0.00052 U	0.00035 J	0.00040 J	0.00057	0.00015 J	0.00012 J	0.00017 J	0.00034 J	< 0.00010 U	--	0.00012 J	--	--	--	< 0.00010 U	0.00026 J
Fluoride	mg/L	2.6	1.9	--	2.3	2.6	3.3	4.6	5.1	3.6	2.2	2.1	4.5	3.7	--	2.5	--	--	--	1.5	2.6
Lead	mg/L	0.0013	0.00081	--	0.0012	0.0020 J	0.0011	0.00050 J	0.0012	0.00064	0.00061	0.0011	0.00083	0.00043 J	--	0.00063	--	--	--	0.00054 J	0.0048
Lithium	mg/L	0.046	0.032	--	0.035	0.038	0.053	0.067	0.085	0.058	0.042	0.043	0.086	0.072	--	0.046	--	--	--	0.048	0.079
Mercury	mg/L	< 0.00016 U	< 0.00016 U	--	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	0.00022	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	--	0.0000064	--	--	--	0.0000037	0.0000038
Molybdenum	mg/L	0.0069	0.0060	--	0.011	0.0062 J	0.016	0.0072	0.012	0.0081	0.0069	0.013	0.011	0.0097	--	0.014	--	--	--	0.019	0.0034
Radium 226 and 228	pCi/L	< 0.342 U	0.712 J+	--	< 0.551 U	1.42	1.49	1.44	1.28	< 0.532 U	< 1 U	0.722	< 0.916 U	< 0.7 U	--	0.658	--	--	--	0.956	0.906
Radium-226	pCi/L	0.151	< 0.121 U	--	< 0.177 U	0.266	0.229	0.456	0.329	< 0.265 U	< 0.18 U	0.206	0.466	0.175	--	0.382	--	--	--	< 0.316 U	0.283
Radium-228	pCi/L	< 0.342 U	0.627 J+	--	< 0.551 U	1.15	1.26	0.981	0.954	< 0.532 U	< 1 U	< 0.601 U	< 0.916 U	< 0.7 U	--	< 0.565 U	--	--	--	< 0.919 U	< 0.854 U
Selenium	mg/L	0.00073	0.00059	--	0.0010	< 0.0011 U	0.0013	0.0013	0.0014	0.0008	0.0018	0.0014	0.0015	0.00078	--	0.0014	--	--	--	0.0013	0.00082
Thallium	mg/L	< 0.000075 U	< 0.000075 U	--	< 0.000075 U	< 0.00039 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	--	< 0.000075 U	--	--	--	< 0.000075 U	< 0.000075 U
Total Suspended Solids	mg/L	< 4.0 U	3.0 J	--	1.0 J	0.99 J	1.0 J	30	14	< 3.9 U	< 4.0 U	< 4.0 U	17	< 4.0 U	--	11	--	--	--	9.0	20
Michigan CCR Part 115																					
Copper	mg/L	0.0010	0.00085	--	0.011	0.0011 J	0.0014	0.0012	0.0010	0.00047	0.00089	0.0016	0.00083	0.00061	--	0.0015	--	--	--	0.0016	0.012
Iron	mg/L	0.20	0.15	--	0.20	0.23	0.16	0.27	0.48	0.28	0.14	0.16	0.48	0.21	--	0.10	--	--	--	0.13	0.34
Nickel	mg/L	0.0023	0.0020	--	0.0023	< 0.0034 U	0.0027	0.0036	0.0040	0.0034	0.0020	0.0024	0.0037	0.0035	--	0.0021	--	--	--	0.0024	0.0025
Silver	mg/L	< 0.000050 U	< 0.000050 U	--	< 0.000050 U	< 0.00026 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.00005 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	--	< 0.000050 U	--	--	--	< 0.000050 U	< 0.000050 U
Vanadium	mg/L	< 0.00062 U	< 0.00062 U	--	< 0.00062 U	< 0.0032 U	0.0019	0.0014	0.0052	0.00072 J	< 0.00062 U	0.0014	0.0055	0.0020	--	0.0012	--	--	--	0.00088 J	0.00085 J
Zinc	mg/L	0.0041	0.0031	--	0.0029	0.029	0.0014	0.0024	0.0028	0.005	0.0013	0.0020	0.0024	0.0033	--	0.0016	--	--	--	0.014	0.021
Additional Parameters																					
Bicarbonate Alkalinity	mg/L	96	76	--	62	71	35	73	65	130	93	79	94	110	--	85	--	--	--	140	82
Carbonate Alkalinity	mg/L	< 0.16 U	< 0.16 U	--	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	19	< 0.31 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	--	< 0.16 U	--	--	--	< 0.31 U	< 0.16 U
Magnesium	mg/L	48	31	--	28	28	33	53	63	57	37	34	61	56	--	28	--	--	--	31	59
Potassium	mg/L	13	9.1	--	8.0	7.3	6.8	18	21	16	9.1	8.2	20	13	--	6.7	--	--	--	7.0	3.9
Sodium	mg/L	40	24	--	22	21	27	52	62	58	31	28	66	60	--	27	--	--	--	23	50
Total Alkalinity	mg/L	96	76	--	62	71	35	73	83	130	93	79	94	110	--	85	--	--	--	140	82

Notes:

ug/l - micrograms per liter.

mg/l = milligrams per liter.

su - standard pH units (pH is a field parameter)

pCi/L = picocuries per liter.

All metals were analyzed as total unless otherwise indicated.

Qualifiers:

U The analyte was analyzed for, but was not detected at, a level greater than or equal to the level of the adjusted reporting limit (RL) for the sample and method.

J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to the concentration of the analyte being below the RL).

J+ Same as J, and the reported concentration is potentially biased high.

J– Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Appendix D
Analytical Data Reporting Tables
Former J.B. Sims Generating Station
Renew Harbor Island

Sample Location:		SG-03	SG-03	SG-03	SG-03	SG-03	SG-03	SG-03	SG-03	SG-03	SG-03	SG-03
Compliance Phase:		Background	Background	Background	Background	Background	Background	Background	Background	Assessment	Assessment	Assessment
Sample Date:		12/2/2022	1/5/2023	2/6/2023	3/14/2023	4/19/2023	5/23/2023	6/28/2023	8/8/2023	10/24/2023	2/14/2024	4/10/2024
Sample Type:		Field Sample	Field Sample	No Sample Taken	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	No Sample Taken
Unit:		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Sample Matrix:		Surface Water	Surface Water		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	
Constituent	**Unit**											
Field Parameters												
Conductivity	mS/cm	1.45	1	--	0.896	1.15	1.05	1.53	1.66	1.49	0.84	--
Dissolved Oxygen	mg/L	5.23	9.58	--	3.98	9.77	7.37	8.71	9.56	8.26	14.36	--
Oxidation Reduction Potential	mV	138.3	-32.4	--	-50.1	8	10	17	71.4	-42.1	135.5	--
pH	su	8	8.42	--	7.82	6.24	8.91	8.63	8.67	8.14	8.03	--
Temperature	deg c	2	3.3	--	0.9	8.3	28.6	25.9	29.5	17.7	3.6	--
Turbidity	NTU	1.2	0.36	--	0.02	4.45	38.1	5.36	4.27	5.56	0.44	--
Appendix III												
Boron	mg/L	3.9	2.0	--	2.1	2.0	2.9	5.8 J+	7.5	6.9	3.4	--
Calcium	mg/L	200	120	--	150	140	160	220	180	180	140	--
Chloride	mg/L	72	42	--	43	37	41	86	120	100	53	--
Fluoride	mg/L	2.5	1.8	--	2.5	2.7	3.6	4.6	5.0	3.6	2.2	--
Sulfate (as SO4)	mg/L	600	350	--	350	400	450	620	640	550	370	--
Total Dissolved Solids	mg/L	1100	480	--	630	660	740	1200	1400	1100	1400	--
Appendix IV												
Antimony	mg/L	0.00049	0.00038	--	0.00067	0.0010 J	0.0013	0.00088	0.0012	0.00063	0.00050	--
Arsenic	mg/L	0.0018	0.0011	--	0.0020	0.0016 J	0.0041	0.0040	0.0094	0.0024	0.0012	--
Barium	mg/L	0.049	0.031	--	0.036	0.027	0.097	0.13	0.13	0.061	0.036	--
Beryllium	mg/L	< 0.000052 U	< 0.000052 U	--	0.000078 J	< 0.00026 U	0.00056	0.00040	0.000091 J	< 0.000052 U	< 0.000052 U	--
Cadmium	mg/L	< 0.000032 U	< 0.000032 U	--	0.000038 J	< 0.00016 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	--
Chromium, Total	mg/L	0.00043	0.00025	--	0.00092	< 0.00088 U	0.0025	0.0012	0.00069	0.00049	0.00032	--
Cobalt	mg/L	0.00017 J	0.00017 J	--	0.00033 J	0.00050 J	0.00058	0.00043 J	0.00055	0.0003 J	0.00011 J	--
Fluoride	mg/L	2.5	1.8	--	2.5	2.7	3.6	4.6	5.0	3.6	2.2	--
Lead	mg/L	0.0012	0.00060	--	0.0020	< 0.0011 U	0.0033	0.00076	0.00091	0.00066	0.00059	--
Lithium	mg/L	0.046	0.028	--	0.0056	0.037	0.051	0.067	0.090	0.059	0.031	--
Mercury	mg/L	< 0.00016 U	< 0.00016 U	--	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	--
Molybdenum	mg/L	0.0066	0.0052	--	0.010	0.0097	0.020	0.0069	0.013	0.0083	0.0066	--
Radium 226 and 228	pCi/L	< 0.443 U	< 0.506 U	--	< 0.531 U	1.21	< 0.658 U	< 0.653 U	0.969	0.594	< 0.661 U	--
Radium-226	pCi/L	0.14	0.129	--	< 0.193 U	0.199	0.363	0.353	0.253	< 0.236 U	< 0.139 U	--
Radium-228	pCi/L	< 0.443 U	< 0.506 U	--	< 0.531 U	1.01	< 0.658 U	< 0.653 U	< 0.842 U	< 0.58 U	< 0.661 U	--
Selenium	mg/L	0.00070	0.00056	--	0.0010	0.0021 J	0.0018	0.0012	0.0016	0.00081	0.0018	--
Thallium	mg/L	< 0.000075 U	< 0.000075 U	--	< 0.000075 U	< 0.00038 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	--
Total Suspended Solids	mg/L	9.0	1.0 J	--	6.0	3.0 J	33	34	16	< 4 U	< 4.0 U	--
Michigan CCR Part 115												
Copper	mg/L	0.00093	0.00067	--	0.016	< 0.0010 U	0.0030	0.0013	0.0010	0.00051	0.00083	--
Iron	mg/L	0.18	0.15	--	0.35	0.20	0.66	0.31	0.48	0.29	0.13	--
Nickel	mg/L	0.0022	0.0017	--	0.0026	0.0032 J	0.0039	0.0036	0.0039	0.0035	0.0019	--
Silver	mg/L	< 0.000050 U	< 0.000050 U	--	< 0.000050 U	< 0.00025 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.00005 U	< 0.000050 U	--
Vanadium	mg/L	< 0.00062 U	< 0.00062 U	--	0.00092 J	< 0.0031 U	0.0049	0.0020	0.0053	0.0007 J	< 0.00062 U	--
Zinc	mg/L	0.0042	0.0037	--	0.0047	< 0.0059 U	0.0060	0.0029	0.0024	0.0069	0.0012	--
Additional Parameters												
Bicarbonate Alkalinity	mg/L	110	71	--	73	71	41	73	69	120	92	--
Carbonate Alkalinity	mg/L	< 0.16 U	< 0.16 U	--	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	16	< 0.31 U	< 0.16 U	--
Magnesium	mg/L	47	26	--	30	29	37	56	67	57	35	--
Potassium	mg/L	13	8.1	--	8.3	7.2	7.1	19	22	17	8.7	--
Sodium	mg/L	38	20	--	23	21	28	57	66	58	30	--
Total Alkalinity	mg/L	110	71	--	73	71	41	73	85	120	92	--

Notes:

ug/l - micrograms per liter.

mg/l = milligrams per liter.

su - standard pH units (pH is a field parameter)

pCi/L = picocuries per liter.

All metals were analyzed as total unless otherwise indicated.

Qualifiers:

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Appendix D
Analytical Data Reporting Tables
Former J.B. Sims Generating Station
Renew Harbor Island

Sample Location:		SG-04R	SG-04R	SG-04R	SG-04R	SG-04R	SG-04R	SG-04R	SG-04R	SG-04R	SG-04R	SG-04R	SG-04R	SG-04R	SG-04R	SG-04R	SG-04R	SG-04R	SG-04R	SG-04R	SG-04R
Compliance Phase:		Background	Background	Background	Background	Background	Background	Background	Background	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment
Sample Date:		12/2/2022	1/5/2023	2/6/2023	3/14/2023	4/19/2023	5/23/2023	6/28/2023	8/8/2023	10/24/2023	2/14/2024	4/8/2024	7/17/2024	10/17/2024	2/27/2025	4/22/2025	8/14/2025	10/23/2025	2/19/2026	4/23/2026	8/13/2026
Sample Type:		Field Sample	Field Sample	No Sample Taken	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	No Sample Taken	Field Sample	No Sample Taken	No Sample Taken	No Sample Taken	Field Sample	No Sample Taken
Unit:		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Sample Matrix:		Surface Water	Surface Water		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water		Surface Water					
Constituent	**Unit**																				
Field Parameters																					
Conductivity	mS/cm	1	1.64	--	1.404	1.96	1.79	2.56	2.56	2.12	1.41	1.64	2.39	2	--	1.074	--	--	--	1.13	--
Dissolved Oxygen	mg/L	6.42	9.64	--	10.26	10.46	7.17	6.62	8.21	8.36	11.92	9.24	6.23	9.56	--	7.13	--	--	--	7.52	--
Oxidation Reduction Potential	mV	125.3	-34.8	--	-34	91.5	29.9	368	58.7	-33.8	155.6	20.8	-6.5	55.1	--	44.8	--	--	--	20.1	--
pH	su	8.03	8.44	--	8.05	8.21	8.3	8.24	8.68	8.36	7.2	8.46	8.74	8.35	--	7.56	--	--	--	8.08	--
Temperature	deg c	3.3	4	--	5.9	8.2	25.6	25.9	23.8	17.1	2.7	14.7	27.5	13.1	--	15.4	--	--	--	20.5	--
Turbidity	NTU	7.25	1.1	--	3.22	1.04	5.27	10.6	2.28	5.92	8.1	3.75	4.11	8.89	--	7.77	--	--	--	5.47	--
Appendix III																					
Boron	mg/L	3.0	2.1	--	2.6	2.4	3.2	5.0 J+	5.4	5.4	4.5	4.4	6.8	5.6	--	3.5	--	--	--	2.2	--
Calcium	mg/L	430	300	--	370	310	390	600	580	500	340	370	510	390	--	410	--	--	--	190	--
Chloride	mg/L	27	22	--	21	20	22	33	38	35	23	20	38	42	--	71	--	--	--	31	--
Fluoride	mg/L	2.6	2.0	--	2.3	2.7	3.5	5.0	5.3	3.7	2.3	2.7	4.2	3.7	--	1.6	--	--	--	1.4	--
Sulfate (as SO4)	mg/L	1200	890	--	750	880	1000	1600	1800	820	890	890	1500	1200	--	750	--	--	--	400	--
Total Dissolved Solids	mg/L	1800	1200	--	1200	1400	1600	2500	2700	2200	1400	1400	2200	1900	--	1900	--	--	--	810	--
Appendix IV																					
Antimony	mg/L	0.00059	0.00052	--	0.00069	0.0011 J	0.00064 J	0.0013	0.0011	0.00089	< 0.00050 U	0.0010	0.00046	0.00052	--	< 0.00010 U	--	--	--	0.00025	--
Arsenic	mg/L	0.00099	0.00091	--	0.0016	0.0026 J	0.0012	0.0043	0.0058	0.0017	0.0019	0.0016	0.0028	0.0018	--	0.0014	--	--	--	0.0025	--
Barium	mg/L	0.022	0.019	--	0.023	0.040	0.039	0.040	0.029	0.029	0.027	0.025	0.024	0.026	--	0.12	--	--	--	0.049	--
Beryllium	mg/L	< 0.000052 U	< 0.000052 U	--	< 0.000052 U	< 0.00026 U	< 0.000052 U	0.00012 J	0.000066 J	< 0.000052 U	0.000057 J	< 0.000052 U	< 0.000052 U	< 0.000052 U	--	< 0.000052 U	--	--	--	< 0.00010 U	--
Cadmium	mg/L	< 0.000032 U	< 0.000032 U	--	< 0.000032 U	< 0.00016 U	< 0.00038 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.00038 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	--	< 0.000075 U	--	--	--	< 0.000075 U	--
Chromium, Total	mg/L	0.00019 J	0.00028	--	0.00035	< 0.00088 U	0.00040	0.0010	0.00028	0.00063	0.00060	0.00028	0.00026	< 0.00020 U	--	0.0044	--	--	--	< 0.00020 U	--
Cobalt	mg/L	0.00024 J	0.00028 J	--	0.00037 J	< 0.00050 U	0.00032 J	0.0011	0.00083	0.00063	0.00029 J	0.00012 J	0.00020 J	< 0.00010 U	--	0.00024 J	--	--	--	0.00021 J	--
Fluoride	mg/L	2.6	2.0	--	2.3	2.7	3.5	5.0	5.3	3.7	2.3	2.7	4.2	3.7	--	1.6	--	--	--	1.4	--
Lead	mg/L	0.00033 J	0.00027 J	--	0.00047 J	0.0011 J	0.0013 J	0.0025 J	0.00054 J	0.00022 J	0.0015 J	0.00071	< 0.00050 U	< 0.00010 U	--	< 0.00010 U	--	--	--	< 0.00010 U	--
Lithium	mg/L	0.044	0.039	--	0.0089	0.043	0.056	0.072	0.084	0.064	0.049	0.059	0.091	0.076	--	0.056	--	--	--	0.035	--
Mercury	mg/L	< 0.00016 U	< 0.00016 U	--	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	--	< 0.00000016 U	--	--	--	0.0000026	--
Molybdenum	mg/L	0.0078	0.0066	--	0.0073	0.010	0.0072	0.013	0.016	0.016	0.0091	0.015	0.013	0.014	--	0.00096 J	--	--	--	0.0093	--
Radium 226 and 228	pCi/L	< 0.408 U	< 0.497 U	--	< 0.672 U	< 0.809 U	< 0.803 U	1.82	< 0.788 U	< 0.641 U	0.651	< 0.564 U	< 0.892 U	< 0.591 U	--	< 0.535 U	--	--	--	< 0.935 U	--
Radium-226	pCi/L	< 0.11 U	< 0.109 U	--	< 0.167 U	< 0.213 U	0.264	0.233	< 0.133 U	< 0.2 U	0.186	< 0.213 U	0.25	< 0.14 U	--	< 0.326 U	--	--	--	< 0.303 U	--
Radium-228	pCi/L	< 0.408 U	< 0.497 U	--	< 0.672 U	< 0.809 U	< 0.803 U	1.59	< 0.788 U	< 0.641 U	< 0.639 U	< 0.564 U	< 0.892 U	< 0.591 U	--	< 0.535 U	--	--	--	< 0.935 U	--
Selenium	mg/L	0.0015	0.0014	--	0.0016	0.0013 J	0.0012	0.0023	0.0028	0.0024	0.0023	0.0024	0.0022	0.0034	--	0.00020 J	--	--	--	0.0013	--
Thallium	mg/L	< 0.000075 U	< 0.000075 U	--	< 0.000075 U	< 0.00038 U	< 0.00038 U	< 0.00038 U	< 0.00038 U	< 0.000075 U	< 0.00038 U	0.000075 J	< 0.00038 U	< 0.000075 U	--	< 0.000075 U	--	--	--	< 0.000075 U	--
Total Suspended Solids	mg/L	5.0	< 4.0 U	--	3.0 J	1.0 J	5.0	23	9.0	< 4 U	14	< 4.0 U	15	7.0	--	21	--	--	--	8.0	--
Michigan CCR Part 115																					
Copper	mg/L	0.00047	0.00048	--	0.012	0.0012	0.00056	0.0018	0.00071	0.00086	0.0013	0.0011	0.00082	0.00063	--	< 0.00020 U	--	--	--	0.00063	--
Iron	mg/L	0.055	0.11	--	0.11	0.13	0.19	0.31	0.089	0.05	0.36	0.10	0.045 J	0.022 J	--	7.0	--	--	--	0.087	--
Nickel	mg/L	0.0025	0.0028	--	0.0027	< 0.0032 U	0.0022	0.0055	0.0041	0.0035	0.0037	0.0038	0.0030	0.0024	--	0.013	--	--	--	0.0022	--
Silver	mg/L	< 0.000050 U	< 0.000050 U	--	< 0.000050 U	< 0.00025 U	< 0.00025 U	< 0.000050 U	< 0.000050 U	< 0.00005 U	< 0.00025 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	--	< 0.000050 U	--	--	--	< 0.000050 U	--
Vanadium	mg/L	< 0.00062 U	< 0.00062 U	--	< 0.00062 U	< 0.0031 U	0.00094 J	0.0041	0.0065	< 0.00062 U	0.00097 J	0.0013	0.0038	0.0013	--	0.00094 J	--	--	--	0.00056 J	--
Zinc	mg/L	0.0037	0.0023	--	0.0033	0.0061 J	0.0012	0.0070	0.0019	0.0086	0.0062	0.0020	0.0023	0.0026	--	< 0.0012 U	--	--	--	0.010	--
Additional Parameters																					
Bicarbonate Alkalinity	mg/L	110	87	--	98	100	62	50	30	61	100	93	42	46	--	670	--	--	--	180	--
Carbonate Alkalinity	mg/L	< 0.16 U	< 0.16 U	--	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	13	< 0.31 U	< 0.16 U	< 0.16 U	0.80 J	< 0.16 U	--	< 0.16 U	--	--	--	< 0.31 U	--
Magnesium	mg/L	41	30	--	33	29	35	53	62	57	44	43	61	55	--	140	--	--	--	26	--
Potassium	mg/L	15	10	--	9.8	9.1	10	17	21	12	9.1	8.9	8.4	8.4	--	20	--	--	--	6.8	--
Sodium	mg/L	24	20	--	21	19	22	39	40	34	26	26	39	34	--	74	--	--	--	27	--
Total Alkalinity	mg/L	110	87	--	98	100	62	50	43	61	100	93	43	46	--	670	--	--	--	180	--

Notes:

ug/l - micrograms per liter.

mg/l = milligrams per liter.

su - standard pH units (pH is a field parameter)

pCi/L = picocuries per liter.

All metals were analyzed as total unless otherwise indicated.

Qualifiers:

U The analyte was analyzed for, but was not detected at, a level greater than or equal to the level of the adjusted reporting limit (RL) for the sample and method.

J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to the concentration of the analyte being below the RL).

J+ Same as J, and the reported concentration is potentially biased high.

J– Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Appendix D
Analytical Data Reporting Tables
Former J.B. Sims Generating Station
Renew Harbor Island

Sample Location:		SG-05	SG-05	SG-05	SG-05	SG-05	SG-05	SG-05	SG-05	SG-05	SG-05	SG-05	SG-05	SG-05	SG-05	SG-05	SG-05	SG-05	SG-05	SG-05	SG-05
Compliance Phase:		Background	Background	Background	Background	Background	Background	Background	Background	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment
Sample Date:		12/2/2022	1/5/2023	2/6/2023	3/14/2023	4/19/2023	5/23/2023	6/28/2023	8/8/2023	10/24/2023	2/14/2024	4/8/2024	7/17/2024	10/17/2024	2/27/2025	4/22/2025	8/14/2025	10/23/2025	2/19/2026	4/23/2026	8/13/2026
Sample Type:		Field Sample	Field Sample	No Sample Taken	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	No Sample Taken	Field Sample	No Sample Taken	No Sample Taken	No Sample Taken	Field Sample	No Sample Taken
Unit:		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Sample Matrix:		Surface Water	Surface Water		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water		Surface Water					
Constituent	**Unit**																				
Field Parameters																					
Conductivity	mS/cm	0.731	0.98	--	0.742	1.11	0.75	0.61	0.359	0.91	0.75	0.8	0.465	1.06	--	0.898	--	--	--	0.92	--
Dissolved Oxygen	mg/L	6.85	13.1	--	15.74	6.77	7.83	11.25	11.39	11.73	0.59	8.37	7.51	4.59	--	10.6	--	--	--	5.16	--
Oxidation Reduction Potential	mV	142	-44.6	--	6.4	18.3	16.3	153.3	39.2	-28.7	134.6	34.6	-29	57.7	--	31.7	--	--	--	24.9	--
pH	su	7.44	8.02	--	8.28	7.88	8.31	6.73	9.19	7.87	7.67	8.4	9.4	7.51	--	8.22	--	--	--	7.42	--
Temperature	deg c	4.1	4	--	9.8	7.6	27.8	23.4	28.9	19.5	5.2	17.3	26.7	13.8	--	16.5	--	--	--	19.4	--
Turbidity	NTU	9.38	8.02	--	9.83	26.6	6.8	7.84	4.36	29.3	41.6	14.9	2.68	48.3	--	6.11	--	--	--	49.9	--
Appendix III																					
Boron	mg/L	0.59	0.60	--	0.48	0.57	0.36	0.46 J+	0.39	0.72	0.45	0.53	0.34	0.68	--	1.2	--	--	--	0.50	--
Calcium	mg/L	140	120	--	120	120	81	34	34	120	130	99	22	140	--	160	--	--	--	130	--
Chloride	mg/L	79	51	--	61	50	54	64	29	54	54	37	52	46	--	46	--	--	--	25	--
Fluoride	mg/L	0.73	0.98	--	0.94	0.69	0.30	0.42	0.45	0.79	0.68	0.83	0.32	0.65	--	1.1	--	--	--	0.69	--
Sulfate (as SO4)	mg/L	8.4 J	150	--	38 J	110	43	38	11	12	7.2	83	13	6.0	--	240	--	--	--	25	--
Total Dissolved Solids	mg/L	620	630	--	460	570	400	320	210	510	520	440	240	630	--	750	--	--	--	540	--
Appendix IV																					
Antimony	mg/L	0.00018 J	0.000093 J	--	0.00030	0.0010 J	0.00029	0.0010	0.00044	0.00016 J	0.00011 J	0.00024 J	0.00030	0.00039	--	0.00027	--	--	--	0.00027	--
Arsenic	mg/L	0.00084	0.00056	--	0.00071	0.0026 J	0.0017	0.0024	0.0013	0.00088	0.0010	0.00094	0.0017	0.0016	--	0.0012	--	--	--	0.00076	--
Barium	mg/L	0.58	0.23	--	0.35	0.039	0.20	0.11	0.16	0.51	0.50	0.26	0.10	0.63	--	0.37	--	--	--	0.54	--
Beryllium	mg/L	< 0.000052 U	< 0.000052 U	--	< 0.000052 U	< 0.00026 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	0.000062 J	--	< 0.000052 U	--	--	--	< 0.00010 U	--
Cadmium	mg/L	< 0.000032 U	< 0.000032 U	--	< 0.000032 U	< 0.00016 U	< 0.000075 U	0.00011 J	0.00075	0.000094 J	0.00041	0.00013 J	< 0.000075 U	0.00067	--	< 0.000075 U	--	--	--	< 0.000075 U	--
Chromium, Total	mg/L	0.00036	0.00024 J	--	0.00048	< 0.00088 U	0.00035	0.00049	0.0017	0.00039	0.0020	0.00056	0.00043	0.0038	--	0.00050	--	--	--	0.00025	--
Cobalt	mg/L	0.00037 J	0.00025 J	--	0.00029 J	< 0.00050 U	0.00025 J	0.00032 J	0.00033 J	0.00027 J	0.00046 J	0.00024 J	0.00013 J	0.00085	--	0.00029 J	--	--	--	0.00055	--
Fluoride	mg/L	0.73	0.98	--	0.94	0.69	0.30	0.42	0.45	0.79	0.68	0.83	0.32	0.65	--	1.1	--	--	--	0.69	--
Lead	mg/L	0.00023 J	0.00038 J	--	0.00045 J	0.0012 J	0.0022	0.0040	0.0095	0.0031	0.011	0.0031	0.0019	0.016	--	0.0011	--	--	--	0.00025 J	--
Lithium	mg/L	0.038	0.033	--	0.0045	0.029	0.016	0.022	0.027	0.039	0.016	0.023	0.014	0.042	--	0.044	--	--	--	0.032	--
Mercury	mg/L	< 0.00016 U	< 0.00016 U	--	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	0.00017 J	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	--	0.0000019	--	--	--	0.0000075	--
Molybdenum	mg/L	0.00077 J	0.0029	--	0.0013	0.0090	0.0083	0.0087	0.0015	0.00085 J	0.00058 J	0.0024	0.0039	0.00078 J	--	0.0054	--	--	--	0.0014	--
Radium 226 and 228	pCi/L	0.851	< 0.537 U	--	< 0.776 U	0.858	< 0.758 U	< 0.818 U	< 0.82 U	< 0.771 U	< 0.889 U	0.971	< 1.12 U	< 0.773 U	--	< 0.852 U	--	--	--	< 0.758 U	--
Radium-226	pCi/L	0.308	< 0.122 U	--	< 0.188 U	0.306	< 0.219 U	< 0.154 U	< 0.147 U	< 0.286 U	0.216	< 0.204 U	< 0.17 U	< 0.244 U	--	< 0.499 U	--	--	--	< 0.39 U	--
Radium-228	pCi/L	0.543	< 0.537 U	--	< 0.776 U	< 0.798 U	< 0.758 U	< 0.818 U	< 0.82 U	< 0.771 U	< 0.889 U	0.845	< 1.12 U	< 0.773 U	--	< 0.852 U	--	--	--	< 0.758 U	--
Selenium	mg/L	< 0.00022 U	< 0.00022 U	--	< 0.00022 U	0.0013 J	0.00022 J	0.00038 J	0.00027 J	0.00017 J	0.00054	0.00014 J	0.00027 J	0.00039 J	--	0.00022 J	--	--	--	0.00014 J	--
Thallium	mg/L	< 0.000075 U	< 0.000075 U	--	< 0.000075 U	< 0.00038 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	--	< 0.000075 U	--	--	--	< 0.000075 U	--
Total Suspended Solids	mg/L	5.0	7.9	--	8.0	17	6.0	14	73	12	120	8.0	4.0	74	--	17	--	--	--	13	--
Michigan CCR Part 115																					
Copper	mg/L	0.00029	0.00036	--	0.0089	0.0011 J	0.00084	0.0028	0.0066	0.0012	0.0063	0.0021	0.0015	0.011	--	0.00071	--	--	--	0.00067	--
Iron	mg/L	3.0	1.5	--	2.7	3.2	1.1	0.74	1.1	2.9	7.2	1.9	1.0	7.2	--	1.6	--	--	--	4.6	--
Nickel	mg/L	0.0013	0.0015	--	0.0012	< 0.0032 U	0.0026	0.0034	0.0026	0.0012	0.0024	0.0017	0.0020	0.0047	--	0.0024	--	--	--	0.0020	--
Silver	mg/L	< 0.000050 U	< 0.000050 U	--	0.000053	< 0.00025 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.00005 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	--	< 0.000050 U	--	--	--	< 0.000050 U	--
Vanadium	mg/L	< 0.00062 U	< 0.00062 U	--	< 0.00062 U	< 0.0031 U	< 0.00062 U	0.0012	0.00069 J	< 0.00062 U	< 0.00062 U	0.00071 J	0.00090 J	0.0020	--	0.0011 J	--	--	--	< 0.00028 U	--
Zinc	mg/L	0.030	0.0018	--	0.0022	0.0060 J	0.0024	0.0090	0.019	0.043	0.019	0.0065	0.0033	0.055	--	0.0031	--	--	--	0.044	--
Additional Parameters																					
Bicarbonate Alkalinity	mg/L	490	270	--	290	290	240	65	96	400	400	240	63	490	--	320	--	--	--	450	--
Carbonate Alkalinity	mg/L	< 0.16 U	< 0.16 U	--	< 0.16 U	< 0.16 U	< 0.16 U	46	16	< 0.31 U	< 0.16 U	< 0.16 U	42	< 0.16 U	--	< 0.16 U	--	--	--	< 0.31 U	--
Magnesium	mg/L	27	23	--	26	26	25	21	12	24	26	23	19	29	--	33	--	--	--	23	--
Potassium	mg/L	8.1	6.5	--	7.9	6.8	4.3	0.31	0.79	8.5	7.9	5.1	0.32	7.8	--	8.6	--	--	--	7.2	--
Sodium	mg/L	43	30	--	38	34	37	44	21	40	43	30	30	45	--	45	--	--	--	32	--
Total Alkalinity	mg/L	490	270	--	290	290	240	110	110	400	400	240	100	490	--	320	--	--	--	450	--

Notes:

ug/l - micrograms per liter.

mg/l = milligrams per liter.

su - standard pH units (pH is a field parameter)

pCi/L = picocuries per liter.

All metals were analyzed as total unless otherwise indicated.

Qualifiers:

U The analyte was analyzed for, but was not detected at, a level greater than or equal to the level of the adjusted reporting limit (RL) for the sample and method.

J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to the concentration of the analyte being below the RL).

J+ Same as J, and the reported concentration is potentially biased high.

J– Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Appendix D
Analytical Data Reporting Tables
Former J.B. Sims Generating Station
Renew Harbor Island

Sample Location:		SG-06	SG-06	SG-06	SG-06	SG-06	SG-06	SG-06	SG-06	SG-06	SG-06	SG-06	SG-06	SG-06
Compliance Phase:		Background	Background	Background	Background	Background	Background	Background	Background	Assessment	Assessment	Assessment	Assessment	Assessment
Sample Date:		12/2/2022	1/5/2023	2/6/2023	3/13/2023	4/19/2023	5/23/2023	6/28/2023	8/8/2023	10/24/2023	2/14/2024	4/10/2024	7/17/2024	10/17/2024
Sample Type:		No Sample Taken	No Sample Taken	No Sample Taken	No Sample Taken	No Sample Taken	No Sample Taken	No Sample Taken	Field Sample	Field Sample	No Sample Taken	No Sample Taken	Field Sample	Field Sample
Unit:		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Sample Matrix:									Surface Water	Surface Water			Surface Water	Surface Water
Constituent	**Unit**													
Field Parameters														
Conductivity	mS/cm	--	--	--	--	--	--	--	0.69	0.74	--	--	0.55	0.77
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	4.93	6.01	--	--	4.85	7.68
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	60.2	-40.4	--	--	9.8	47.6
pH	su	--	--	--	--	--	--	--	7.37	7.98	--	--	7.94	8.2
Temperature	deg c	--	--	--	--	--	--	--	24.3	19.1	--	--	26.2	15.1
Turbidity	NTU	--	--	--	--	--	--	--	7.35	4.89	--	--	6.72	6.37
Appendix III														
Boron	mg/L	--	--	--	--	--	--	--	0.21	0.24	--	--	0.22	0.11
Calcium	mg/L	--	--	--	--	--	--	--	69	82	--	--	52	70
Chloride	mg/L	--	--	--	--	--	--	--	53	56	--	--	52	70
Fluoride	mg/L	--	--	--	--	--	--	--	0.18	0.18	--	--	0.23	0.14
Sulfate (as SO4)	mg/L	--	--	--	--	--	--	--	15	30	--	--	12	47
Total Dissolved Solids	mg/L	--	--	--	--	--	--	--	380	410	--	--	340	460
Appendix IV														
Antimony	mg/L	--	--	--	--	--	--	--	< 0.00010 U	0.00014 J	--	--	< 0.00010 U	0.00018 J
Arsenic	mg/L	--	--	--	--	--	--	--	0.0016	0.0016	--	--	0.0038	0.00098
Barium	mg/L	--	--	--	--	--	--	--	0.10	0.092	--	--	0.076	0.059
Beryllium	mg/L	--	--	--	--	--	--	--	< 0.000052 U	< 0.000052 U	--	--	< 0.000052 U	< 0.000052 U
Cadmium	mg/L	--	--	--	--	--	--	--	< 0.000075 U	< 0.000075 U	--	--	< 0.000075 U	< 0.000075 U
Chromium, Total	mg/L	--	--	--	--	--	--	--	0.00088	0.00044	--	--	0.00061	0.00051
Cobalt	mg/L	--	--	--	--	--	--	--	0.00019 J	0.00018 J	--	--	0.00010 J	0.00023 J
Fluoride	mg/L	--	--	--	--	--	--	--	0.18	0.18	--	--	0.23	0.14
Lead	mg/L	--	--	--	--	--	--	--	0.00071	0.00053 J	--	--	0.00038 J	0.00027 J
Lithium	mg/L	--	--	--	--	--	--	--	0.0061	0.0087	--	--	0.0074	0.0062
Mercury	mg/L	--	--	--	--	--	--	--	< 0.00016 U	0.0002	--	--	< 0.00016 U	< 0.00016 U
Molybdenum	mg/L	--	--	--	--	--	--	--	0.00039 J	0.0034	--	--	0.00077 J	0.0021
Radium 226 and 228	pCi/L	--	--	--	--	--	--	--	< 0.926 U	< 0.838 U	--	--	< 1.88 U	1.04
Radium-226	pCi/L	--	--	--	--	--	--	--	< 0.16 U	< 0.288 U	--	--	0.296	< 0.181 U
Radium-228	pCi/L	--	--	--	--	--	--	--	< 0.926 U	< 0.838 U	--	--	< 1.88 U	0.912
Selenium	mg/L	--	--	--	--	--	--	--	0.00015 J	0.00012 J	--	--	0.00017 J	0.00012 J
Thallium	mg/L	--	--	--	--	--	--	--	< 0.000075 U	< 0.000075 U	--	--	< 0.000075 U	< 0.000075 U
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	120	< 4 U	--	--	36	8.0
Michigan CCR Part 115														
Copper	mg/L	--	--	--	--	--	--	--	0.00089	0.00054	--	--	0.00078	0.0016
Iron	mg/L	--	--	--	--	--	--	--	0.55	0.23	--	--	0.67	0.19
Nickel	mg/L	--	--	--	--	--	--	--	0.00084 J	0.0011 J	--	--	0.00082 J	0.0018
Silver	mg/L	--	--	--	--	--	--	--	< 0.000050 U	< 0.00005 U	--	--	< 0.000050 U	< 0.000050 U
Vanadium	mg/L	--	--	--	--	--	--	--	< 0.00062 U	< 0.00062 U	--	--	< 0.00062 U	0.00065 J
Zinc	mg/L	--	--	--	--	--	--	--	0.0045	0.008	--	--	0.0026	0.0049
Additional Parameters														
Bicarbonate Alkalinity	mg/L	--	--	--	--	--	--	--	230	270	--	--	180	230
Carbonate Alkalinity	mg/L	--	--	--	--	--	--	--	< 0.16 U	< 0.31 U	--	--	< 0.16 U	< 0.16 U
Magnesium	mg/L	--	--	--	--	--	--	--	21	25	--	--	21	24
Potassium	mg/L	--	--	--	--	--	--	--	0.78	5	--	--	0.70	4.0
Sodium	mg/L	--	--	--	--	--	--	--	29	35	--	--	30	40
Total Alkalinity	mg/L	--	--	--	--	--	--	--	230	270	--	--	180	230

Notes:

ug/l - micrograms per liter.

mg/l = milligrams per liter.

su - standard pH units (pH is a field parameter)

pCi/L = picocuries per liter.

All metals were analyzed as total unless otherwise indicated.

Qualifiers:

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J– Same as J, and the reported concentration is potentially biased low.

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R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Appendix D
Analytical Data Reporting Tables
Former J.B. Sims Generating Station
Renew Harbor Island

Sample Location:		SG-07	SG-07	SG-07	SG-07	SG-07	SG-07	SG-07
Compliance Phase:		Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment
Sample Date:		2/27/2025	4/22/2025	8/13/2025	10/22/2025	2/19/2026	4/23/2026	8/13/2026
Sample Type:		No Sample Taken	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
Unit:		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Sample Matrix:			Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Constituent	**Unit**							
Field Parameters								
Conductivity	mS/cm	--	0.4727	0.623	0.676	NA	0.499	3.65
Dissolved Oxygen	mg/L	--	12.98	2.46	9.19	NA	7.15	3.69
Oxidation Reduction Potential	mV	--	20.4	10.7	29	NA	-13.8	19.7
pH	su	--	8.44	8.33	8.07	NA	7.96	7.88
Temperature	deg c	--	13.1	20.1	11.4	NA	19.9	25.9
Turbidity	NTU	--	5.03	9.02	9.44	NA	9.3	9.1
Appendix III								
Boron	mg/L	--	0.076	0.088	0.11	0.37	0.055	0.055
Calcium	mg/L	--	68	48	70	100	54	51
Chloride	mg/L	--	51	79	77	59	28	59
Fluoride	mg/L	--	0.16	0.16 J	0.26	0.26	0.11 J	0.16 J
Sulfate (as SO4)	mg/L	--	44	45	54	100	25	37
Total Dissolved Solids	mg/L	--	360	390	390	450	260	320
Appendix IV								
Antimony	mg/L	--	0.00013 J	0.00020 J	0.00018 J	0.00019 J	0.00014 J	0.00019 J
Arsenic	mg/L	--	0.00091	0.0023	0.00099	0.00086	0.0011	0.0015
Barium	mg/L	--	0.057	0.055	0.061	0.091	0.050	0.045
Beryllium	mg/L	--	< 0.000052 U	< 0.000052 U	< 0.000052 U	0.000074 J	< 0.00010 U	< 0.00010 U
Cadmium	mg/L	--	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U
Chromium, Total	mg/L	--	0.00051	0.00042	0.00063	0.00059	0.00066	0.00044
Cobalt	mg/L	--	0.00020 J	0.00020 J	0.00030 J	0.00040 J	0.00020 J	0.00013 J
Fluoride	mg/L	--	0.16	0.16 J	0.26	0.26	0.11 J	0.16 J
Lead	mg/L	--	0.00049 J	0.00040 J	0.00075	0.0012	0.00060	0.00055
Lithium	mg/L	--	0.0035	0.0048	0.0040	0.0083	0.0023 J	0.0044
Mercury	mg/L	--	0.0000019	0.00000093	< 0.00000016 U	0.0000044	0.0000032	0.0000014
Molybdenum	mg/L	--	0.0017	0.0039	0.0021	0.0043	0.0020	0.0012
Radium 226 and 228	pCi/L	--	< 0.833 U	1.1	< 1.05 U	< 0.578 U	< 0.989 U	< 0.508 U
Radium-226	pCi/L	--	< 0.457 U	0.416	< 0.314 U	0.158	< 0.34 U	0.233
Radium-228	pCi/L	--	< 0.833 U	0.687	< 1.05 U	< 0.578 U	< 0.989 U	< 0.508 U
Selenium	mg/L	--	0.00027 J	0.00019 J	0.00018 J	0.00020 J	0.00035 J	0.00016 J
Thallium	mg/L	--	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U
Total Suspended Solids	mg/L	--	14	12	10	13	8.0	11
Michigan CCR Part 115								
Copper	mg/L	--	0.0016	0.0024	0.0018	0.0021	0.0023	0.0020
Iron	mg/L	--	0.32	0.15	0.38	1.0	0.53	0.20
Nickel	mg/L	--	0.0012	0.0016	0.0017	0.0019	0.0016	0.0011 J
Silver	mg/L	--	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U
Vanadium	mg/L	--	0.00067 J	0.00086 J	0.00084 J	0.00080 J	0.0011 J	0.00083 J
Zinc	mg/L	--	0.0034	0.0060	0.0035	0.018	0.013	0.010
Additional Parameters								
Bicarbonate Alkalinity	mg/L	--	210	170	200	220	160	150
Carbonate Alkalinity	mg/L	--	6.3	< 0.31 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.16 U
Magnesium	mg/L	--	20	21	23	22	14	19
Potassium	mg/L	--	3.3	3.8	4.1	3.9	3.9	3.1
Sodium	mg/L	--	27	43	45	39	16	35
Total Alkalinity	mg/L	--	210	170	200	220	160	150

Notes:

ug/l - micrograms per liter.

mg/l = milligrams per liter.

su - standard pH units (pH is a field parameter)

pCi/L = picocuries per liter.

All metals were analyzed as total unless otherwise indicated.

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R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Appendix E

Laboratory Reports

Trace Analytical Laboratories, Inc.
2241 Black Creek Road
Muskegon, MI 49444-2673

TRACE ANALYTICAL LABORATORIES, INC.

231-773-5998 Phone
888-979-4469 Fax
www.trace-labs.com

August 28, 2026

Molly Reeves
HDR Michigan Inc.
1000 Oakbrook Dr., Suite 200
Ann Arbor, MI 48104

RE: Trace Project 26H0718
Client Project City of Grand Haven - Harbor Island

Enclosed are your analytical results. The results of this report relate only to the samples listed in the body of this report.

All reports were examined through Trace's validation process to ensure that requirements for quality and completeness were satisfied. All reported analytical results were obtained in accordance with the methods referenced on the reports. Every practical effort was made to meet the reporting limit specifications for this work, however, some results may have raised reporting limits to correct for percent solids.

If you have questions concerning this report, please contact me at 231.773.5998 or by email at jmink@trace-labs.com.

Sincerely,

Jon Mink
Senior Project Manager
Enclosures

PJLA Testing Accreditation# 1031

Wisconsin Accreditation No. FID: 998044080 / TNI EL V1:2016

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SAMPLE SUMMARY

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID	Sample ID	Matrix	Collected By	Date Collected	Date Received
26H0718-01	MW-41	Ground Water	AB/FDR	08/10/26 12:38	08/12/26 08:19
26H0718-02	MW-09	Ground Water	AB/FDR	08/10/26 13:46	08/12/26 08:19
26H0718-03	MW-10	Ground Water	AB/FDR	08/10/26 15:10	08/12/26 08:19
26H0718-04	MWT-10	Ground Water	AB/FDR	08/10/26 15:10	08/12/26 08:19
26H0718-05	MW-42	Ground Water	AB/FDR	08/10/26 15:15	08/12/26 08:19
26H0718-06	LLHGTB-08102026	Aqueous	AB/FDR	08/10/26 16:20	08/12/26 08:19
26H0718-07	MW-30	Ground Water	AB/FDR	08/11/26 09:00	08/12/26 08:19
26H0718-08	MW-07	Ground Water	AB/FDR	08/11/26 10:15	08/12/26 08:19
26H0718-09	MW-43	Ground Water	AB/FDR	08/11/26 11:20	08/12/26 08:19
26H0718-10	MW-20	Ground Water	AB/FDR	08/11/26 12:45	08/12/26 08:19
26H0718-11	MW-17	Ground Water	AB/FDR	08/11/26 13:50	08/12/26 08:19
26H0718-12	MW-18	Ground Water	AB/FDR	08/11/26 15:05	08/12/26 08:19
26H0718-13	MWT-18	Ground Water	AB/FDR	08/11/26 15:30	08/12/26 08:19
26H0718-14	MW-37	Ground Water	AB/FDR	08/11/26 09:22	08/12/26 08:19
26H0718-15	MW-38	Ground Water	AB/FDR	08/11/26 09:50	08/12/26 08:19
26H0718-16	MW-36	Ground Water	AB/FDR	08/11/26 10:38	08/12/26 08:19
26H0718-17	MW-01RB	Ground Water	AB/FDR	08/11/26 12:40	08/12/26 08:19
26H0718-18	MW-01R	Ground Water	AB/FDR	08/11/26 13:40	08/12/26 08:19
26H0718-19	MW-13	Ground Water	AB/FDR	08/11/26 15:02	08/12/26 08:19
26H0718-20	MW-16	Ground Water	AB/FDR	08/11/26 16:30	08/12/26 08:19
26H0718-21	MWT-16	Ground Water	AB/FDR	08/11/26 16:30	08/12/26 08:19
26H0718-22	LLHGTB-08112026	Aqueous	AB/FDR	08/11/26 17:20	08/12/26 08:19
26H0718-23	MW-39	Ground Water	AB/FDR	08/12/26 10:00	08/14/26 09:12
26H0718-24	MW-02	Ground Water	AB/FDR	08/12/26 11:44	08/14/26 09:12
26H0718-25	MW-11	Ground Water	AB/FDR	08/12/26 13:40	08/14/26 09:12
26H0718-26	MW-06	Ground Water	AB/FDR	08/12/26 14:48	08/14/26 09:12
26H0718-27	MW-34	Ground Water	AB/FDR	08/12/26 16:02	08/14/26 09:12
26H0718-28	MW-19	Ground Water	AB/FDR	08/12/26 09:35	08/14/26 09:12
26H0718-29	MW-32	Ground Water	AB/FDR	08/12/26 10:40	08/14/26 09:12
26H0718-30	MW-08	Ground Water	AB/FDR	08/12/26 12:00	08/14/26 09:12
26H0718-31	MW-28	Ground Water	AB/FDR	08/12/26 13:55	08/14/26 09:12
26H0718-32	MW-27	Ground Water	AB/FDR	08/12/26 15:10	08/14/26 09:12
26H0718-33	MW-12	Ground Water	AB/FDR	08/12/26 16:30	08/14/26 09:12
26H0718-34	LLHGTB-08122026	Aqueous	AB/FDR	08/12/26 16:40	08/14/26 09:12
26H0718-35	MW-33	Ground Water	AB/FDR	08/13/26 08:52	08/14/26 09:12

CERTIFICATE OF ANALYSIS

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26H0718-36	MW-03	Ground Water	AB/FDR	08/13/26 10:34	08/14/26 09:12
26H0718-37	MW-04R	Ground Water	AB/FDR	08/13/26 12:00	08/14/26 09:12
26H0718-38	MW-31	Ground Water	AB/FDR	08/13/26 10:15	08/14/26 09:12
26H0718-39	MW-04	Ground Water	AB/FDR	08/13/26 10:10	08/14/26 09:12
26H0718-40	SG-02	Surface Water	AB/FDR	08/13/26 13:30	08/14/26 09:12
26H0718-41	SG-07	Surface Water	AB/FDR	08/13/26 14:00	08/14/26 09:12
26H0718-42	LLHGTB-08132026	Aqueous	AB/FDR	08/13/26 14:30	08/14/26 09:12

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TRACE ANALYTICAL LABORATORIES, INC.

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-01 Date Collected: 08/10/26 12:38 Matrix: Ground Water
Sample ID: MW-41 Date Received: 08/12/26 08:19

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 1631E										
Batch: T187671										
Mercury	**3.0**	**ng/L**	**0.50**	**1**	**08/25/26**	**cma**	**08/27/26**	**cma**		
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T187659										
Boron	**7.6**	**mg/L**	**0.088**	**10**	**08/24/26**	**jrc**	**08/25/26**	**jma**		**0.019**
Calcium	**240**	**mg/L**	**2.6**	**10**	**08/24/26**	**jrc**	**08/25/26**	**jma**		**0.37**
Lithium	**0.26**	**mg/L**	**0.0025**	**1**	**08/24/26**	**jrc**	**08/25/26**	**jma**	**N**	**0.00085**
Magnesium	**130**	**mg/L**	**0.50**	**10**	**08/24/26**	**jrc**	**08/25/26**	**jma**		**0.10**
Potassium	**21**	**mg/L**	**0.25**	**1**	**08/24/26**	**jrc**	**08/25/26**	**jma**		**0.036**
Sodium	**110**	**mg/L**	**1.2**	**10**	**08/24/26**	**jrc**	**08/25/26**	**jma**		**0.30**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T187659										
Antimony	**0.00048**	**mg/L**	**0.00025**	**1**	**08/24/26**	**jrc**	**08/25/26**	**cma**		**0.00010**
Arsenic	**0.0067**	**mg/L**	**0.00055**	**1**	**08/24/26**	**jrc**	**08/25/26**	**cma**		**0.00010**
Barium	**0.11**	**mg/L**	**0.0025**	**1**	**08/24/26**	**jrc**	**08/25/26**	**cma**		**0.00030**
Beryllium	<0.00010	mg/L	0.00025	1	08/24/26	jrc	08/25/26	cma		0.00010
Cadmium	<0.000075	mg/L	0.00025	1	08/24/26	jrc	08/25/26	cma		0.000075
Chromium	**0.0031**	**mg/L**	**0.00025**	**1**	**08/24/26**	**jrc**	**08/25/26**	**cma**		**0.00020**
Cobalt	**0.0028**	**mg/L**	**0.00052**	**1**	**08/24/26**	**jrc**	**08/25/26**	**cma**		**0.00010**
Lead	**0.00083**	**mg/L**	**0.00055**	**1**	**08/24/26**	**jrc**	**08/25/26**	**cma**		**0.00010**
Molybdenum	**0.025**	**mg/L**	**0.0012**	**1**	**08/24/26**	**jrc**	**08/25/26**	**cma**		**0.00032**
Nickel	**0.0076**	**mg/L**	**0.0012**	**1**	**08/24/26**	**jrc**	**08/25/26**	**cma**		**0.00015**
Selenium	**0.0016**	**mg/L**	**0.00050**	**1**	**08/24/26**	**jrc**	**08/25/26**	**cma**		**0.00010**
Thallium	<0.000075	mg/L	0.00038	1	08/24/26	jrc	08/25/26	cma		0.000075
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T187128										
Fluoride	**1.2**	**mg/L**	**0.20**	**10**	**08/12/26**	**aeo**	**08/13/26**	**aeo**	**N**	**0.11**
Chloride	**130**	**mg/L**	**1.5**	**10**	**08/12/26**	**aeo**	**08/13/26**	**aeo**		**1.2**
Sulfate as SO4	**530**	**mg/L**	**60**	**100**	**08/12/26**	**aeo**	**08/13/26**	**aeo**		**5.8**

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-01 | Date Collected: 08/10/26 12:38 | Matrix: Ground Water
Sample ID: MW-41 | Date Received: 08/12/26 08:19

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: SM 2320 B-21										
Batch: T187534										
Bicarbonate Alkalinity as CaCO3 at pH 4.5	**690**	**mg/L**	**5.0**	**1**	**08/20/26**	**aeo**	**08/20/26**	**aeo**	**N**	**0.16**
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.16	mg/L	5.0	1	08/20/26	aeo	08/20/26	aeo	N	0.16
Total Alkalinity as CaCO3 at pH 4.5	**690**	**mg/L**	**5.0**	**1**	**08/20/26**	**aeo**	**08/20/26**	**aeo**		**0.16**
Analysis Method: SM 2540 C-20										
Batch: T187119										
Total Dissolved Solids	**1800**	**mg/L**	**40**	**4**	**08/12/26**	**sw**	**08/12/26**	**sw**		
Analysis Method: SM 2540 D-20										
Batch: T187143										
Total Suspended Solids	**16**	**mg/L**	**10**	**1**	**08/12/26**	**sw**	**08/12/26**	**sw**		**4.0**
Analysis Method: SM 4500-H+ B-11 (Lab)										
Batch: T187154										
pH	**7.55**	**pH Units**		**1**	**08/10/26**	**ln**	**08/12/26**	**ln**	**H04, PH01**	

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-02 | Date Collected: 08/10/26 13:46 | Matrix: Ground Water
Sample ID: MW-09 | Date Received: 08/12/26 08:19

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 1631E										
Batch: T187671										
Mercury	**0.61**	**ng/L**	**0.50**	**1**	**08/25/26**	**cma**	**08/27/26**	**cma**		
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T187589										
Boron	**3.2**	**mg/L**	**0.088**	**10**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.019**
Calcium	**500**	**mg/L**	**2.6**	**10**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.37**
Lithium	**0.45**	**mg/L**	**0.0025**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**	**N**	**0.00085**
Magnesium	**95**	**mg/L**	**0.50**	**10**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.10**
Potassium	**14**	**mg/L**	**0.25**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.036**
Sodium	**57**	**mg/L**	**0.12**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.030**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T187589										
Antimony	**0.00011**	**mg/L**	**0.00025**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**	**J**	**0.00010**
Arsenic	**0.0017**	**mg/L**	**0.00055**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00010**
Barium	**0.074**	**mg/L**	**0.0025**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00030**
Beryllium	<0.00010	mg/L	0.00025	1	08/21/26	kra	08/24/26	cma		0.00010
Cadmium	<0.000075	mg/L	0.00025	1	08/21/26	kra	08/24/26	cma		0.000075
Chromium	**0.0026**	**mg/L**	**0.00025**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00020**
Cobalt	**0.00032**	**mg/L**	**0.00052**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**	**J**	**0.00010**
Lead	**0.00041**	**mg/L**	**0.00055**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**	**J**	**0.00010**
Molybdenum	**0.015**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00032**
Nickel	**0.0047**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00015**
Selenium	**0.00056**	**mg/L**	**0.00050**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00010**
Thallium	<0.000075	mg/L	0.00038	1	08/21/26	kra	08/24/26	cma		0.000075
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T187128										
Fluoride	**1.8**	**mg/L**	**0.20**	**10**	**08/12/26**	**aeo**	**08/13/26**	**aeo**	**N**	**0.11**
Chloride	**94**	**mg/L**	**1.5**	**10**	**08/12/26**	**aeo**	**08/13/26**	**aeo**		**1.2**
Sulfate as SO4	**1100**	**mg/L**	**300**	**500**	**08/12/26**	**aeo**	**08/13/26**	**aeo**		**29**

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-02 | Date Collected: 08/10/26 13:46 | Matrix: Ground Water
Sample ID: MW-09 | Date Received: 08/12/26 08:19

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: SM 2320 B-21										
Batch: T187534										
Bicarbonate Alkalinity as CaCO3 at pH 4.5	**530**	**mg/L**	**5.0**	**1**	**08/20/26**	**aeo**	**08/20/26**	**aeo**	**N**	**0.16**
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.16	mg/L	5.0	1	08/20/26	aeo	08/20/26	aeo	N	0.16
Total Alkalinity as CaCO3 at pH 4.5	**530**	**mg/L**	**5.0**	**1**	**08/20/26**	**aeo**	**08/20/26**	**aeo**		**0.16**
Analysis Method: SM 2540 C-20										
Batch: T187119										
Total Dissolved Solids	**2500**	**mg/L**	**40**	**4**	**08/12/26**	**sw**	**08/12/26**	**sw**		
Analysis Method: SM 2540 D-20										
Batch: T187143										
Total Suspended Solids	**62**	**mg/L**	**10**	**1**	**08/12/26**	**sw**	**08/12/26**	**sw**		**4.0**
Analysis Method: SM 4500-H+ B-11 (Lab)										
Batch: T187154										
pH	**7.82**	**pH Units**		**1**	**08/10/26**	**ln**	**08/12/26**	**ln**	**H04, PH01b**	

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-03 | Date Collected: 08/10/26 15:10 | Matrix: Ground Water
Sample ID: MW-10 | Date Received: 08/12/26 08:19

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 1631E										
Batch: T187671										
Mercury	<	ng/L	0.50	1	08/25/26	cma	08/27/26	cma		
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T187589										
Boron	**30**	**mg/L**	**0.088**	**10**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.019**
Calcium	**180**	**mg/L**	**2.6**	**10**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.37**
Lithium	**0.97**	**mg/L**	**0.0025**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**	**N**	**0.00085**
Magnesium	**68**	**mg/L**	**0.10**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.010**
Potassium	**44**	**mg/L**	**0.25**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.036**
Sodium	**350**	**mg/L**	**1.2**	**10**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.30**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T187589										
Antimony	**0.00012**	**mg/L**	**0.00025**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**	**J**	**0.00010**
Arsenic	**0.0014**	**mg/L**	**0.00055**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00010**
Barium	**0.60**	**mg/L**	**0.0025**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00030**
Beryllium	<0.00010	mg/L	0.00025	1	08/21/26	kra	08/24/26	cma		0.00010
Cadmium	<0.000075	mg/L	0.00025	1	08/21/26	kra	08/24/26	cma		0.000075
Chromium	**0.0065**	**mg/L**	**0.00025**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00020**
Cobalt	**0.00074**	**mg/L**	**0.00052**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00010**
Lead	**0.00028**	**mg/L**	**0.00055**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**	**J**	**0.00010**
Molybdenum	**0.0016**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00032**
Nickel	**0.0015**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00015**
Selenium	**0.00036**	**mg/L**	**0.00050**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**	**J**	**0.00010**
Thallium	<0.000075	mg/L	0.00038	1	08/21/26	kra	08/24/26	cma		0.000075
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T187128										
Fluoride	**5.7**	**mg/L**	**0.20**	**10**	**08/12/26**	**aeo**	**08/13/26**	**aeo**	**N**	**0.11**
Chloride	**480**	**mg/L**	**7.5**	**50**	**08/12/26**	**aeo**	**08/13/26**	**aeo**		**6.0**
Sulfate as SO4	**30**	**mg/L**	**6.0**	**10**	**08/12/26**	**aeo**	**08/13/26**	**aeo**		**0.58**

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-03 | Date Collected: 08/10/26 15:10 | Matrix: Ground Water
Sample ID: MW-10 | Date Received: 08/12/26 08:19

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: SM 2320 B-21										
Batch: T187534										
Bicarbonate Alkalinity as CaCO3 at pH 4.5	**900**	**mg/L**	**5.0**	**1**	**08/20/26**	**aeo**	**08/20/26**	**aeo**	**N**	**0.16**
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.16	mg/L	5.0	1	08/20/26	aeo	08/20/26	aeo	N	0.16
Total Alkalinity as CaCO3 at pH 4.5	**900**	**mg/L**	**5.0**	**1**	**08/20/26**	**aeo**	**08/20/26**	**aeo**		**0.16**
Analysis Method: SM 2540 C-20										
Batch: T187119										
Total Dissolved Solids	**1900**	**mg/L**	**40**	**4**	**08/12/26**	**sw**	**08/12/26**	**sw**		
Analysis Method: SM 2540 D-20										
Batch: T187143										
Total Suspended Solids	<3.9	mg/L	9.8	0.9803922	08/12/26	sw	08/12/26	sw		3.9
Analysis Method: SM 4500-H+ B-11 (Lab)										
Batch: T187154										
pH	**7.63**	**pH Units**		**1**	**08/10/26**	**ln**	**08/12/26**	**ln**	**H04, PH01c**	

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-04 Date Collected: 08/10/26 15:10 Matrix: Ground Water
Sample ID: MWT-10 Date Received: 08/12/26 08:19

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 1631E										
Batch: T187671										
Mercury	<	ng/L	0.50	1	08/25/26	cma	08/27/26	cma		
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T187589										
Boron	**30**	**mg/L**	**0.088**	**10**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.019**
Calcium	**160**	**mg/L**	**2.6**	**10**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.37**
Lithium	**0.97**	**mg/L**	**0.0025**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**	**N**	**0.00085**
Magnesium	**68**	**mg/L**	**0.10**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.010**
Potassium	**45**	**mg/L**	**0.25**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.036**
Sodium	**290**	**mg/L**	**1.2**	**10**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.30**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T187589										
Antimony	<0.00010	mg/L	0.00025	1	08/21/26	kra	08/24/26	cma		0.00010
Arsenic	**0.0013**	**mg/L**	**0.00055**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00010**
Barium	**0.60**	**mg/L**	**0.0025**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00030**
Beryllium	<0.00010	mg/L	0.00025	1	08/21/26	kra	08/24/26	cma		0.00010
Cadmium	<0.000075	mg/L	0.00025	1	08/21/26	kra	08/24/26	cma		0.000075
Chromium	**0.0065**	**mg/L**	**0.00025**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00020**
Cobalt	**0.00062**	**mg/L**	**0.00052**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00010**
Lead	**0.00015**	**mg/L**	**0.00055**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**	**J**	**0.00010**
Molybdenum	**0.0014**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00032**
Nickel	**0.0011**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**	**J**	**0.00015**
Selenium	**0.00039**	**mg/L**	**0.00050**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**	**J**	**0.00010**
Thallium	<0.000075	mg/L	0.00038	1	08/21/26	kra	08/24/26	cma		0.000075
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T187128										
Fluoride	**5.7**	**mg/L**	**0.20**	**10**	**08/12/26**	**aeo**	**08/13/26**	**aeo**	**N**	**0.11**
Chloride	**450**	**mg/L**	**7.5**	**50**	**08/12/26**	**aeo**	**08/13/26**	**aeo**		**6.0**
Sulfate as SO4	**27**	**mg/L**	**6.0**	**10**	**08/12/26**	**aeo**	**08/13/26**	**aeo**		**0.58**

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-04 | Date Collected: 08/10/26 15:10 | Matrix: Ground Water
Sample ID: MWT-10 | Date Received: 08/12/26 08:19

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: SM 2320 B-21										
Batch: T187534										
Bicarbonate Alkalinity as CaCO3 at pH 4.5	**890**	**mg/L**	**5.0**	**1**	**08/20/26**	**aeo**	**08/20/26**	**aeo**	**N**	**0.16**
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.16	mg/L	5.0	1	08/20/26	aeo	08/20/26	aeo	N	0.16
Total Alkalinity as CaCO3 at pH 4.5	**890**	**mg/L**	**5.0**	**1**	**08/20/26**	**aeo**	**08/20/26**	**aeo**		**0.16**
Analysis Method: SM 2540 C-20										
Batch: T187119										
Total Dissolved Solids	**1900**	**mg/L**	**40**	**4**	**08/12/26**	**sw**	**08/12/26**	**sw**		
Analysis Method: SM 2540 D-20										
Batch: T187143										
Total Suspended Solids	<3.9	mg/L	9.8	0.9803922	08/12/26	sw	08/12/26	sw		3.9
Analysis Method: SM 4500-H+ B-11 (Lab)										
Batch: T187154										
pH	**7.58**	**pH Units**		**1**	**08/10/26**	**ln**	**08/12/26**	**ln**	**H04, PH01d**	

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-05 | Date Collected: 08/10/26 15:15 | Matrix: Ground Water
Sample ID: MW-42 | Date Received: 08/12/26 08:19

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 1631E										
Batch: T187671										
Mercury	**5.0**	**ng/L**	**0.50**	**1**	**08/25/26**	**cma**	**08/27/26**	**cma**		
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T187589										
Boron	**2.4**	**mg/L**	**0.088**	**10**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.019**
Calcium	**220**	**mg/L**	**2.6**	**10**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.37**
Lithium	**0.14**	**mg/L**	**0.0025**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**	**N**	**0.00085**
Magnesium	**65**	**mg/L**	**0.10**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.010**
Potassium	**11**	**mg/L**	**0.25**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.036**
Sodium	**60**	**mg/L**	**0.12**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.030**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T187589										
Antimony	**0.00026**	**mg/L**	**0.00025**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00010**
Arsenic	**0.0017**	**mg/L**	**0.00055**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00010**
Barium	**0.12**	**mg/L**	**0.0025**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00030**
Beryllium	<0.00010	mg/L	0.00025	1	08/21/26	kra	08/24/26	cma		0.00010
Cadmium	**0.00086**	**mg/L**	**0.00025**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.000075**
Chromium	**0.00062**	**mg/L**	**0.00025**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00020**
Cobalt	**0.0052**	**mg/L**	**0.00052**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00010**
Lead	**0.019**	**mg/L**	**0.00055**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00010**
Molybdenum	**0.0019**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00032**
Nickel	**0.50**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00015**
Selenium	**0.00031**	**mg/L**	**0.00050**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**	**J**	**0.00010**
Thallium	<0.000075	mg/L	0.00038	1	08/21/26	kra	08/24/26	cma		0.000075
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T187128										
Fluoride	**0.27**	**mg/L**	**0.20**	**10**	**08/12/26**	**aeo**	**08/13/26**	**aeo**	**N**	**0.11**
Chloride	**170**	**mg/L**	**1.5**	**10**	**08/12/26**	**aeo**	**08/13/26**	**aeo**		**1.2**
Sulfate as SO4	**320**	**mg/L**	**30**	**50**	**08/12/26**	**aeo**	**08/13/26**	**aeo**		**2.9**

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-05 | Date Collected: 08/10/26 15:15 | Matrix: Ground Water
Sample ID: MW-42 | Date Received: 08/12/26 08:19

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: SM 2320 B-21										
Batch: T187534										
Bicarbonate Alkalinity as CaCO3 at pH 4.5	**400**	**mg/L**	**5.0**	**1**	**08/20/26**	**aeo**	**08/20/26**	**aeo**	**N**	**0.16**
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.16	mg/L	5.0	1	08/20/26	aeo	08/20/26	aeo	N	0.16
Total Alkalinity as CaCO3 at pH 4.5	**400**	**mg/L**	**5.0**	**1**	**08/20/26**	**aeo**	**08/20/26**	**aeo**		**0.16**
Analysis Method: SM 2540 C-20										
Batch: T187119										
Total Dissolved Solids	**1300**	**mg/L**	**40**	**4**	**08/12/26**	**sw**	**08/12/26**	**sw**		
Analysis Method: SM 2540 D-20										
Batch: T187143										
Total Suspended Solids	**32**	**mg/L**	**9.9**	**0.9881423**	**08/12/26**	**sw**	**08/12/26**	**sw**		**4.0**
Analysis Method: SM 4500-H+ B-11 (Lab)										
Batch: T187154										
pH	**6.96**	**pH Units**		**1**	**08/10/26**	**ln**	**08/12/26**	**ln**	**H04, PH01e**	

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-06 Date Collected: 08/10/26 16:20 Matrix: Aqueous
Sample ID: LLHGTB-08102026 Date Received: 08/12/26 08:19

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 1631E										
Batch: T187671										
Mercury	<	ng/L	0.20	1	08/25/26	cma	08/27/26	cma		

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-07 Date Collected: 08/11/26 09:00 Matrix: Ground Water
Sample ID: MW-30 Date Received: 08/12/26 08:19

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 1631E										
Batch: T187671										
Mercury	<	ng/L	0.50	1	08/25/26	cma	08/27/26	cma		
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T187589										
Boron	**1.8**	**mg/L**	**0.0088**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.0019**
Calcium	**450**	**mg/L**	**2.6**	**10**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.37**
Lithium	**0.15**	**mg/L**	**0.0025**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**	**N**	**0.00085**
Magnesium	**100**	**mg/L**	**0.50**	**10**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.10**
Potassium	**14**	**mg/L**	**0.25**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.036**
Sodium	**160**	**mg/L**	**1.2**	**10**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.30**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T187589										
Antimony	<0.00010	mg/L	0.00025	1	08/21/26	kra	08/24/26	cma		0.00010
Arsenic	**0.0013**	**mg/L**	**0.00055**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00010**
Barium	**0.060**	**mg/L**	**0.0025**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00030**
Beryllium	<0.00010	mg/L	0.00025	1	08/21/26	kra	08/24/26	cma		0.00010
Cadmium	<0.000075	mg/L	0.00025	1	08/21/26	kra	08/24/26	cma		0.000075
Chromium	**0.0098**	**mg/L**	**0.00025**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00020**
Cobalt	**0.00038**	**mg/L**	**0.00052**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**	**J**	**0.00010**
Lead	<0.00010	mg/L	0.00055	1	08/21/26	kra	08/24/26	cma		0.00010
Molybdenum	**0.0013**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00032**
Nickel	**0.00049**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**	**J**	**0.00015**
Selenium	**0.00013**	**mg/L**	**0.00050**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**	**J**	**0.00010**
Thallium	<0.000075	mg/L	0.00038	1	08/21/26	kra	08/24/26	cma		0.000075
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T187128										
Fluoride	**1.0**	**mg/L**	**0.20**	**10**	**08/12/26**	**aeo**	**08/13/26**	**aeo**	**N**	**0.11**
Chloride	**460**	**mg/L**	**15**	**100**	**08/12/26**	**aeo**	**08/13/26**	**aeo**		**12**
Sulfate as SO4	**690**	**mg/L**	**60**	**100**	**08/12/26**	**aeo**	**08/13/26**	**aeo**		**5.8**

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-07 | Date Collected: 08/11/26 09:00 | Matrix: Ground Water
Sample ID: MW-30 | Date Received: 08/12/26 08:19

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: SM 2320 B-21										
Batch: T187534										
Bicarbonate Alkalinity as CaCO3 at pH 4.5	**670**	**mg/L**	**5.0**	**1**	**08/20/26**	**aeo**	**08/20/26**	**aeo**	**N**	**0.16**
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.16	mg/L	5.0	1	08/20/26	aeo	08/20/26	aeo	N	0.16
Total Alkalinity as CaCO3 at pH 4.5	**670**	**mg/L**	**5.0**	**1**	**08/20/26**	**aeo**	**08/20/26**	**aeo**		**0.16**
Analysis Method: SM 2540 C-20										
Batch: T187119										
Total Dissolved Solids	**2600**	**mg/L**	**40**	**4**	**08/12/26**	**sw**	**08/12/26**	**sw**		
Analysis Method: SM 2540 D-20										
Batch: T187144										
Total Suspended Solids	**8.3**	**mg/L**	**9.9**	**0.9881423**	**08/12/26**	**sw**	**08/12/26**	**sw**	**J**	**4.0**
Analysis Method: SM 4500-H+ B-11 (Lab)										
Batch: T187154										
pH	**7.21**	**pH Units**		**1**	**08/11/26**	**ln**	**08/12/26**	**ln**	**H02, PH01f**	

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-08 Date Collected: 08/11/26 10:15 Matrix: Ground Water
Sample ID: MW-07 Date Received: 08/12/26 08:19

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 1631E										
Batch: T187671										
Mercury	<	ng/L	0.50	1	08/25/26	cma	08/27/26	cma		
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T187589										
Boron	**7.7**	**mg/L**	**0.088**	**10**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.019**
Calcium	**150**	**mg/L**	**2.6**	**10**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.37**
Lithium	**0.0089**	**mg/L**	**0.0025**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**	**N**	**0.00085**
Magnesium	**37**	**mg/L**	**0.10**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.010**
Potassium	**4.6**	**mg/L**	**0.25**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.036**
Sodium	**49**	**mg/L**	**0.12**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.030**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T187589										
Antimony	<0.00010	mg/L	0.00025	1	08/21/26	kra	08/24/26	cma		0.00010
Arsenic	**0.00019**	**mg/L**	**0.00055**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**	**J**	**0.00010**
Barium	**0.36**	**mg/L**	**0.0025**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00030**
Beryllium	<0.00010	mg/L	0.00025	1	08/21/26	kra	08/24/26	cma		0.00010
Cadmium	<0.000075	mg/L	0.00025	1	08/21/26	kra	08/24/26	cma		0.000075
Chromium	**0.00043**	**mg/L**	**0.00025**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00020**
Cobalt	**0.0013**	**mg/L**	**0.00052**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00010**
Lead	<0.00010	mg/L	0.00055	1	08/21/26	kra	08/24/26	cma		0.00010
Molybdenum	<0.00032	mg/L	0.0012	1	08/21/26	kra	08/24/26	cma		0.00032
Nickel	**0.00024**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**	**J**	**0.00015**
Selenium	**0.00010**	**mg/L**	**0.00050**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**	**J**	**0.00010**
Thallium	<0.000075	mg/L	0.00038	1	08/21/26	kra	08/24/26	cma		0.000075
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T187128										
Fluoride	**0.14**	**mg/L**	**0.20**	**10**	**08/12/26**	**aeo**	**08/13/26**	**aeo**	**J, N**	**0.11**
Chloride	**16**	**mg/L**	**1.5**	**10**	**08/12/26**	**aeo**	**08/13/26**	**aeo**		**1.2**
Sulfate as SO4	**15**	**mg/L**	**6.0**	**10**	**08/12/26**	**aeo**	**08/13/26**	**aeo**		**0.58**

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-08 | Date Collected: 08/11/26 10:15 | Matrix: Ground Water
Sample ID: MW-07 | Date Received: 08/12/26 08:19

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: SM 2320 B-21										
Batch: T187534										
Bicarbonate Alkalinity as CaCO3 at pH 4.5	**690**	**mg/L**	**5.0**	**1**	**08/20/26**	**aeo**	**08/20/26**	**aeo**	**N**	**0.16**
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.16	mg/L	5.0	1	08/20/26	aeo	08/20/26	aeo	N	0.16
Total Alkalinity as CaCO3 at pH 4.5	**690**	**mg/L**	**5.0**	**1**	**08/20/26**	**aeo**	**08/20/26**	**aeo**		**0.16**
Analysis Method: SM 2540 C-20										
Batch: T187119										
Total Dissolved Solids	**750**	**mg/L**	**40**	**4**	**08/12/26**	**sw**	**08/12/26**	**sw**		
Analysis Method: SM 2540 D-20										
Batch: T187143										
Total Suspended Solids	**59**	**mg/L**	**9.4**	**0.9433962**	**08/12/26**	**sw**	**08/12/26**	**sw**		**3.8**
Analysis Method: SM 4500-H+ B-11 (Lab)										
Batch: T187154										
pH	**6.98**	**pH Units**		**1**	**08/11/26**	**ln**	**08/12/26**	**ln**	**H02, PH01g**	

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-09 | Date Collected: 08/11/26 11:20 | Matrix: Ground Water
Sample ID: MW-43 | Date Received: 08/12/26 08:19

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 1631E										
Batch: T187671										
Mercury	**0.54**	**ng/L**	**0.50**	**1**	**08/25/26**	**cma**	**08/27/26**	**cma**		
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T187589										
Boron	**18**	**mg/L**	**0.088**	**10**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.019**
Calcium	**97**	**mg/L**	**2.6**	**10**	**08/21/26**	**kra**	**08/28/26**	**jma**		**0.37**
Lithium	**0.19**	**mg/L**	**0.0025**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**	**N**	**0.00085**
Magnesium	**14**	**mg/L**	**0.10**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.010**
Potassium	**18**	**mg/L**	**0.25**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.036**
Sodium	**46**	**mg/L**	**0.12**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.030**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T187589										
Antimony	**0.00039**	**mg/L**	**0.00025**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00010**
Arsenic	**0.0094**	**mg/L**	**0.00055**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00010**
Barium	**0.95**	**mg/L**	**0.0025**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00030**
Beryllium	<0.00010	mg/L	0.00025	1	08/21/26	kra	08/24/26	cma		0.00010
Cadmium	**0.00065**	**mg/L**	**0.00025**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.000075**
Chromium	**0.00047**	**mg/L**	**0.00025**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00020**
Cobalt	**0.050**	**mg/L**	**0.00052**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00010**
Lead	**0.00039**	**mg/L**	**0.00055**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**	**J**	**0.00010**
Molybdenum	**0.0034**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00032**
Nickel	**0.082**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00015**
Selenium	**0.00089**	**mg/L**	**0.00050**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00010**
Thallium	<0.000075	mg/L	0.00038	1	08/21/26	kra	08/24/26	cma		0.000075
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T187128										
Fluoride	**7.2**	**mg/L**	**0.20**	**10**	**08/12/26**	**aeo**	**08/13/26**	**aeo**	**N**	**0.11**
Chloride	**14**	**mg/L**	**1.5**	**10**	**08/12/26**	**aeo**	**08/13/26**	**aeo**		**1.2**
Sulfate as SO4	**20**	**mg/L**	**6.0**	**10**	**08/12/26**	**aeo**	**08/13/26**	**aeo**		**0.58**

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-09 | Date Collected: 08/11/26 11:20 | Matrix: Ground Water
Sample ID: MW-43 | Date Received: 08/12/26 08:19

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: SM 2320 B-21										
Batch: T187534										
Bicarbonate Alkalinity as CaCO3 at pH 4.5	**350**	**mg/L**	**5.0**	**1**	**08/20/26**	**aeo**	**08/20/26**	**aeo**	**N**	**0.16**
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.16	mg/L	5.0	1	08/20/26	aeo	08/20/26	aeo	N	0.16
Total Alkalinity as CaCO3 at pH 4.5	**350**	**mg/L**	**5.0**	**1**	**08/20/26**	**aeo**	**08/20/26**	**aeo**		**0.16**
Analysis Method: SM 2540 C-20										
Batch: T187119										
Total Dissolved Solids	**530**	**mg/L**	**40**	**4**	**08/12/26**	**sw**	**08/12/26**	**sw**		
Analysis Method: SM 2540 D-20										
Batch: T187143										
Total Suspended Solids	<3.9	mg/L	9.8	0.9803922	08/12/26	sw	08/12/26	sw		3.9
Analysis Method: SM 4500-H+ B-11 (Lab)										
Batch: T187154										
pH	**7.55**	**pH Units**		**1**	**08/11/26**	**ln**	**08/12/26**	**ln**	**PH01h**	

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-10 Date Collected: 08/11/26 12:45 Matrix: Ground Water
Sample ID: MW-20 Date Received: 08/12/26 08:19

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 1631E										
Batch: T187671										
Mercury	**4.8**	**ng/L**	**0.50**	**1**	**08/25/26**	**cma**	**08/27/26**	**cma**		
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T187589										
Boron	**1.3**	**mg/L**	**0.0088**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.0019**
Calcium	**150**	**mg/L**	**2.6**	**10**	**08/21/26**	**kra**	**08/28/26**	**jma**		**0.37**
Lithium	**0.058**	**mg/L**	**0.0025**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**	**N**	**0.00085**
Magnesium	**41**	**mg/L**	**0.10**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.010**
Potassium	**5.9**	**mg/L**	**0.25**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.036**
Sodium	**39**	**mg/L**	**0.12**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.030**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T187589										
Antimony	**0.00011**	**mg/L**	**0.00025**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**	**J**	**0.00010**
Arsenic	**0.0019**	**mg/L**	**0.00055**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00010**
Barium	**0.45**	**mg/L**	**0.0025**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00030**
Beryllium	<0.00010	mg/L	0.00025	1	08/21/26	kra	08/24/26	cma		0.00010
Cadmium	<0.000075	mg/L	0.00025	1	08/21/26	kra	08/24/26	cma		0.000075
Chromium	**0.00027**	**mg/L**	**0.00025**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00020**
Cobalt	**0.0014**	**mg/L**	**0.00052**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00010**
Lead	**0.0032**	**mg/L**	**0.00055**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00010**
Molybdenum	**0.0036**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00032**
Nickel	**0.012**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00015**
Selenium	<0.00010	mg/L	0.00050	1	08/21/26	kra	08/24/26	cma		0.00010
Thallium	<0.000075	mg/L	0.00038	1	08/21/26	kra	08/24/26	cma		0.000075
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T187128										
Fluoride	**0.23**	**mg/L**	**0.20**	**10**	**08/12/26**	**aeo**	**08/13/26**	**aeo**	**N**	**0.11**
Chloride	**37**	**mg/L**	**1.5**	**10**	**08/12/26**	**aeo**	**08/13/26**	**aeo**		**1.2**
Sulfate as SO4	**18**	**mg/L**	**6.0**	**10**	**08/12/26**	**aeo**	**08/13/26**	**aeo**		**0.58**

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-10 | Date Collected: 08/11/26 12:45 | Matrix: Ground Water
Sample ID: MW-20 | Date Received: 08/12/26 08:19

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: SM 2320 B-21										
Batch: T187534										
Bicarbonate Alkalinity as CaCO3 at pH 4.5	**530**	**mg/L**	**5.0**	**1**	**08/20/26**	**aeo**	**08/20/26**	**aeo**	**N**	**0.16**
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.16	mg/L	5.0	1	08/20/26	aeo	08/20/26	aeo	N	0.16
Total Alkalinity as CaCO3 at pH 4.5	**530**	**mg/L**	**5.0**	**1**	**08/20/26**	**aeo**	**08/20/26**	**aeo**		**0.16**
Analysis Method: SM 2540 C-20										
Batch: T187119										
Total Dissolved Solids	**630**	**mg/L**	**40**	**4**	**08/12/26**	**sw**	**08/12/26**	**sw**		
Analysis Method: SM 2540 D-20										
Batch: T187143										
Total Suspended Solids	**31**	**mg/L**	**9.6**	**0.9615384**	**08/12/26**	**sw**	**08/12/26**	**sw**		**3.8**
Analysis Method: SM 4500-H+ B-11 (Lab)										
Batch: T187154										
pH	**7.15**	**pH Units**		**1**	**08/11/26**	**ln**	**08/12/26**	**ln**	**PH01i**	

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-11 Date Collected: 08/11/26 13:50 Matrix: Ground Water
Sample ID: MW-17 Date Received: 08/12/26 08:19

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 1631E										
Batch: T187671										
Mercury	<	ng/L	0.50	1	08/25/26	cma	08/27/26	cma		
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T187589										
Boron	**0.86**	**mg/L**	**0.0088**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.0019**
Calcium	**120**	**mg/L**	**2.6**	**10**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.37**
Lithium	**0.037**	**mg/L**	**0.0025**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**	**N**	**0.00085**
Magnesium	**23**	**mg/L**	**0.10**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.010**
Potassium	**15**	**mg/L**	**0.25**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.036**
Sodium	**43**	**mg/L**	**0.12**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.030**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T187589										
Antimony	<0.00010	mg/L	0.00025	1	08/21/26	kra	08/24/26	cma		0.00010
Arsenic	**0.0021**	**mg/L**	**0.00055**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00010**
Barium	**0.79**	**mg/L**	**0.0025**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00030**
Beryllium	<0.00010	mg/L	0.00025	1	08/21/26	kra	08/24/26	cma		0.00010
Cadmium	<0.000075	mg/L	0.00025	1	08/21/26	kra	08/24/26	cma		0.000075
Chromium	**0.00065**	**mg/L**	**0.00025**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00020**
Cobalt	**0.00032**	**mg/L**	**0.00052**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**	**J**	**0.00010**
Lead	**0.00032**	**mg/L**	**0.00055**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**	**J**	**0.00010**
Molybdenum	**0.00048**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**	**J**	**0.00032**
Nickel	**0.00081**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**	**J**	**0.00015**
Selenium	**0.00016**	**mg/L**	**0.00050**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**	**J**	**0.00010**
Thallium	<0.000075	mg/L	0.00038	1	08/21/26	kra	08/24/26	cma		0.000075
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T187128										
Fluoride	**0.60**	**mg/L**	**0.20**	**10**	**08/12/26**	**aeo**	**08/13/26**	**aeo**	**N**	**0.11**
Chloride	**24**	**mg/L**	**1.5**	**10**	**08/12/26**	**aeo**	**08/13/26**	**aeo**		**1.2**
Sulfate as SO4	<0.58	mg/L	6.0	10	08/12/26	aeo	08/13/26	aeo		0.58

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-11 | Date Collected: 08/11/26 13:50 | Matrix: Ground Water
Sample ID: MW-17 | Date Received: 08/12/26 08:19

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: SM 2320 B-21										
Batch: T187534										
Bicarbonate Alkalinity as CaCO3 at pH 4.5	**510**	**mg/L**	**5.0**	**1**	**08/20/26**	**aeo**	**08/20/26**	**aeo**	**N**	**0.16**
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.16	mg/L	5.0	1	08/20/26	aeo	08/20/26	aeo	N	0.16
Total Alkalinity as CaCO3 at pH 4.5	**510**	**mg/L**	**5.0**	**1**	**08/20/26**	**aeo**	**08/20/26**	**aeo**		**0.16**
Analysis Method: SM 2540 C-20										
Batch: T187119										
Total Dissolved Solids	**610**	**mg/L**	**40**	**4**	**08/12/26**	**sw**	**08/12/26**	**sw**		
Analysis Method: SM 2540 D-20										
Batch: T187143										
Total Suspended Solids	**13**	**mg/L**	**10**	**1**	**08/12/26**	**sw**	**08/12/26**	**sw**		**4.0**
Analysis Method: SM 4500-H+ B-11 (Lab)										
Batch: T187154										
pH	**7.68**	**pH Units**		**1**	**08/11/26**	**ln**	**08/12/26**	**ln**	**PH01j**	

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-12 | Date Collected: 08/11/26 15:05 | Matrix: Ground Water
Sample ID: MW-18 | Date Received: 08/12/26 08:19

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 1631E										
Batch: T187671										
Mercury	**2.1**	**ng/L**	**0.50**	**1**	**08/25/26**	**cma**	**08/27/26**	**cma**		
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T187589										
Boron	**5.2**	**mg/L**	**0.088**	**10**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.019**
Calcium	**250**	**mg/L**	**2.6**	**10**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.37**
Lithium	**0.058**	**mg/L**	**0.0025**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**	**N**	**0.00085**
Magnesium	**27**	**mg/L**	**0.10**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.010**
Potassium	**9.5**	**mg/L**	**0.25**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.036**
Sodium	**29**	**mg/L**	**0.12**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.030**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T187589										
Antimony	**0.00032**	**mg/L**	**0.00025**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00010**
Arsenic	**0.033**	**mg/L**	**0.00055**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00010**
Barium	**0.039**	**mg/L**	**0.0025**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00030**
Beryllium	<0.00010	mg/L	0.00025	1	08/21/26	kra	08/24/26	cma		0.00010
Cadmium	**0.0011**	**mg/L**	**0.00025**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.000075**
Chromium	**0.00023**	**mg/L**	**0.00025**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**	**J**	**0.00020**
Cobalt	**0.0026**	**mg/L**	**0.00052**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00010**
Lead	**0.00012**	**mg/L**	**0.00055**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**	**J**	**0.00010**
Molybdenum	**0.023**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00032**
Nickel	**0.0079**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00015**
Selenium	**0.00033**	**mg/L**	**0.00050**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**	**J**	**0.00010**
Thallium	**0.00016**	**mg/L**	**0.00038**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**	**J**	**0.000075**
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T187128										
Fluoride	**3.6**	**mg/L**	**0.20**	**10**	**08/12/26**	**aeo**	**08/13/26**	**aeo**	**N**	**0.11**
Chloride	**34**	**mg/L**	**1.5**	**10**	**08/12/26**	**aeo**	**08/13/26**	**aeo**		**1.2**
Sulfate as SO4	**500**	**mg/L**	**60**	**100**	**08/12/26**	**aeo**	**08/13/26**	**aeo**		**5.8**

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-12 | Date Collected: 08/11/26 15:05 | Matrix: Ground Water
Sample ID: MW-18 | Date Received: 08/12/26 08:19

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: SM 2320 B-21										
Batch: T187534										
Bicarbonate Alkalinity as CaCO3 at pH 4.5	**250**	**mg/L**	**5.0**	**1**	**08/20/26**	**aeo**	**08/20/26**	**aeo**	**N**	**0.16**
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.16	mg/L	5.0	1	08/20/26	aeo	08/20/26	aeo	N	0.16
Total Alkalinity as CaCO3 at pH 4.5	**250**	**mg/L**	**5.0**	**1**	**08/20/26**	**aeo**	**08/20/26**	**aeo**		**0.16**
Analysis Method: SM 2540 C-20										
Batch: T187119										
Total Dissolved Solids	**1100**	**mg/L**	**40**	**4**	**08/12/26**	**sw**	**08/12/26**	**sw**		
Analysis Method: SM 2540 D-20										
Batch: T187143										
Total Suspended Solids	**12**	**mg/L**	**9.3**	**0.9328358**	**08/12/26**	**sw**	**08/12/26**	**sw**		**3.7**
Analysis Method: SM 4500-H+ B-11 (Lab)										
Batch: T187154										
pH	**7.13**	**pH Units**		**1**	**08/11/26**	**ln**	**08/12/26**	**ln**	**PH01k**	

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-13 Date Collected: 08/11/26 15:30 Matrix: Ground Water
Sample ID: MWT-18 Date Received: 08/12/26 08:19

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 1631E										
Batch: T187671										
Mercury	**2.7**	**ng/L**	**0.50**	**1**	**08/25/26**	**cma**	**08/27/26**	**cma**		
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T187589										
Boron	**2.9**	**mg/L**	**0.088**	**10**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.019**
Calcium	**210**	**mg/L**	**2.6**	**10**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.37**
Lithium	**0.058**	**mg/L**	**0.0025**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**	**N**	**0.00085**
Magnesium	**27**	**mg/L**	**0.10**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.010**
Potassium	**9.6**	**mg/L**	**0.25**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.036**
Sodium	**29**	**mg/L**	**0.12**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.030**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T187589										
Antimony	**0.00032**	**mg/L**	**0.00025**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00010**
Arsenic	**0.034**	**mg/L**	**0.00055**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00010**
Barium	**0.040**	**mg/L**	**0.0025**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00030**
Beryllium	<0.00010	mg/L	0.00025	1	08/21/26	kra	08/24/26	cma		0.00010
Cadmium	**0.0011**	**mg/L**	**0.00025**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.000075**
Chromium	**0.00023**	**mg/L**	**0.00025**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**	**J**	**0.00020**
Cobalt	**0.0026**	**mg/L**	**0.00052**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00010**
Lead	**0.00012**	**mg/L**	**0.00055**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**	**J**	**0.00010**
Molybdenum	**0.023**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00032**
Nickel	**0.0081**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00015**
Selenium	**0.00033**	**mg/L**	**0.00050**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**	**J**	**0.00010**
Thallium	**0.00017**	**mg/L**	**0.00038**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**	**J**	**0.000075**
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T187128										
Fluoride	**3.6**	**mg/L**	**0.20**	**10**	**08/12/26**	**aeo**	**08/13/26**	**aeo**	**N**	**0.11**
Chloride	**34**	**mg/L**	**1.5**	**10**	**08/12/26**	**aeo**	**08/13/26**	**aeo**		**1.2**
Sulfate as SO4	**500**	**mg/L**	**60**	**100**	**08/12/26**	**aeo**	**08/13/26**	**aeo**		**5.8**

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-13 | Date Collected: 08/11/26 15:30 | Matrix: Ground Water
Sample ID: MWT-18 | Date Received: 08/12/26 08:19

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: SM 2320 B-21										
Batch: T187534										
Bicarbonate Alkalinity as CaCO3 at pH 4.5	**250**	**mg/L**	**5.0**	**1**	**08/20/26**	**aeo**	**08/20/26**	**aeo**	**N**	**0.16**
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.16	mg/L	5.0	1	08/20/26	aeo	08/20/26	aeo	N	0.16
Total Alkalinity as CaCO3 at pH 4.5	**250**	**mg/L**	**5.0**	**1**	**08/20/26**	**aeo**	**08/20/26**	**aeo**		**0.16**
Analysis Method: SM 2540 C-20										
Batch: T187119										
Total Dissolved Solids	**1100**	**mg/L**	**40**	**4**	**08/12/26**	**sw**	**08/12/26**	**sw**		
Analysis Method: SM 2540 D-20										
Batch: T187143										
Total Suspended Solids	**11**	**mg/L**	**9.8**	**0.9803922**	**08/12/26**	**sw**	**08/12/26**	**sw**		**3.9**
Analysis Method: SM 4500-H+ B-11 (Lab)										
Batch: T187154										
pH	**7.23**	**pH Units**		**1**	**08/11/26**	**ln**	**08/12/26**	**ln**	**PH01I**	

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-14 Date Collected: 08/11/26 09:22 Matrix: Ground Water
Sample ID: MW-37 Date Received: 08/12/26 08:19

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 1631E										
Batch: T187671										
Mercury	**1.6**	**ng/L**	**0.50**	**1**	**08/25/26**	**cma**	**08/27/26**	**cma**		
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T187589										
Boron	**2.5**	**mg/L**	**0.088**	**10**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.019**
Calcium	**140**	**mg/L**	**2.6**	**10**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.37**
Lithium	**0.026**	**mg/L**	**0.0025**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**	**N**	**0.00085**
Magnesium	**11**	**mg/L**	**0.10**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.010**
Potassium	**31**	**mg/L**	**0.25**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.036**
Sodium	**25**	**mg/L**	**0.12**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.030**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T187589										
Antimony	**0.00032**	**mg/L**	**0.00025**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00010**
Arsenic	**0.00053**	**mg/L**	**0.00055**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**	**J**	**0.00010**
Barium	**0.056**	**mg/L**	**0.0025**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00030**
Beryllium	<0.00010	mg/L	0.00025	1	08/21/26	kra	08/24/26	cma		0.00010
Cadmium	**0.00013**	**mg/L**	**0.00025**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**	**J**	**0.000075**
Chromium	**0.00033**	**mg/L**	**0.00025**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00020**
Cobalt	**0.00041**	**mg/L**	**0.00052**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**	**J**	**0.00010**
Lead	**0.0012**	**mg/L**	**0.00055**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00010**
Molybdenum	**0.0081**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00032**
Nickel	**0.0032**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00015**
Selenium	**0.0011**	**mg/L**	**0.00050**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00010**
Thallium	**0.000089**	**mg/L**	**0.00038**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**	**J**	**0.000075**
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T187128										
Fluoride	**0.43**	**mg/L**	**0.20**	**10**	**08/12/26**	**aeo**	**08/13/26**	**aeo**	**N**	**0.11**
Chloride	**4.3**	**mg/L**	**1.5**	**10**	**08/12/26**	**aeo**	**08/13/26**	**aeo**		**1.2**
Sulfate as SO4	**180**	**mg/L**	**6.0**	**10**	**08/12/26**	**aeo**	**08/13/26**	**aeo**		**0.58**

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-14 | Date Collected: 08/11/26 09:22 | Matrix: Ground Water
Sample ID: MW-37 | Date Received: 08/12/26 08:19

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: SM 2320 B-21										
Batch: T187534										
Bicarbonate Alkalinity as CaCO3 at pH 4.5	**320**	**mg/L**	**5.0**	**1**	**08/20/26**	**aeo**	**08/20/26**	**aeo**	**N**	**0.16**
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.16	mg/L	5.0	1	08/20/26	aeo	08/20/26	aeo	N	0.16
Total Alkalinity as CaCO3 at pH 4.5	**320**	**mg/L**	**5.0**	**1**	**08/20/26**	**aeo**	**08/20/26**	**aeo**		**0.16**
Analysis Method: SM 2540 C-20										
Batch: T187119										
Total Dissolved Solids	**660**	**mg/L**	**40**	**4**	**08/12/26**	**sw**	**08/12/26**	**sw**		
Analysis Method: SM 2540 D-20										
Batch: T187143										
Total Suspended Solids	<4.0	mg/L	9.9	0.9881423	08/12/26	sw	08/12/26	sw		4.0
Analysis Method: SM 4500-H+ B-11 (Lab)										
Batch: T187154										
pH	**7.24**	**pH Units**		**1**	**08/11/26**	**ln**	**08/12/26**	**ln**	**H02, PH01m**	

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-15 Date Collected: 08/11/26 09:50 Matrix: Ground Water
Sample ID: MW-38 Date Received: 08/12/26 08:19

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 1631E										
Batch: T187671										
Mercury	**30**	**ng/L**	**0.50**	**1**	**08/25/26**	**cma**	**08/27/26**	**cma**		
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T187589										
Boron	**1.3**	**mg/L**	**0.0088**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.0019**
Calcium	**61**	**mg/L**	**0.26**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.037**
Lithium	**0.085**	**mg/L**	**0.0025**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**	**N**	**0.00085**
Magnesium	**1.2**	**mg/L**	**0.10**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.010**
Potassium	**72**	**mg/L**	**0.25**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.036**
Sodium	**58**	**mg/L**	**0.12**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.030**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T187589										
Antimony	**0.0030**	**mg/L**	**0.00025**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00010**
Arsenic	**0.010**	**mg/L**	**0.00055**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00010**
Barium	**0.071**	**mg/L**	**0.0025**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00030**
Beryllium	<0.00010	mg/L	0.00025	1	08/21/26	kra	08/24/26	cma		0.00010
Cadmium	**0.00055**	**mg/L**	**0.00025**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.000075**
Chromium	**0.0098**	**mg/L**	**0.00025**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00020**
Cobalt	**0.00077**	**mg/L**	**0.00052**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00010**
Lead	**0.075**	**mg/L**	**0.00055**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00010**
Molybdenum	**0.025**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00032**
Nickel	**0.0097**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00015**
Selenium	**0.00088**	**mg/L**	**0.00050**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00010**
Thallium	<0.000075	mg/L	0.00038	1	08/21/26	kra	08/24/26	cma		0.000075
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T187128										
Fluoride	**1.0**	**mg/L**	**0.20**	**10**	**08/12/26**	**aeo**	**08/13/26**	**aeo**	**N**	**0.11**
Chloride	**27**	**mg/L**	**1.5**	**10**	**08/12/26**	**aeo**	**08/13/26**	**aeo**		**1.2**
Sulfate as SO4	**43**	**mg/L**	**6.0**	**10**	**08/12/26**	**aeo**	**08/13/26**	**aeo**		**0.58**

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-15 | Date Collected: 08/11/26 09:50 | Matrix: Ground Water
Sample ID: MW-38 | Date Received: 08/12/26 08:19

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: SM 2320 B-21										
Batch: T187534										
Bicarbonate Alkalinity as CaCO3 at pH 4.5	**81**	**mg/L**	**5.0**	**1**	**08/20/26**	**aeo**	**08/20/26**	**aeo**	**N**	**0.16**
Carbonate Alkalinity as CaCO3 at pH 8.2	**140**	**mg/L**	**5.0**	**1**	**08/20/26**	**aeo**	**08/20/26**	**aeo**	**N**	**0.16**
Total Alkalinity as CaCO3 at pH 4.5	**220**	**mg/L**	**5.0**	**1**	**08/20/26**	**aeo**	**08/20/26**	**aeo**		**0.16**
Analysis Method: SM 2540 C-20										
Batch: T187119										
Total Dissolved Solids	**440**	**mg/L**	**40**	**4**	**08/12/26**	**sw**	**08/12/26**	**sw**		
Analysis Method: SM 2540 D-20										
Batch: T187143										
Total Suspended Solids	**100**	**mg/L**	**10**	**1**	**08/12/26**	**sw**	**08/12/26**	**sw**		**4.0**
Analysis Method: SM 4500-H+ B-11 (Lab)										
Batch: T187154										
pH	**10.5**	**pH Units**		**1**	**08/11/26**	**ln**	**08/12/26**	**ln**	**H02, PH01n**	

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-16 | Date Collected: 08/11/26 10:38 | Matrix: Ground Water
Sample ID: MW-36 | Date Received: 08/12/26 08:19

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 1631E										
Batch: T187671										
Mercury	**5.3**	**ng/L**	**0.50**	**1**	**08/25/26**	**cma**	**08/27/26**	**cma**		
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T187589										
Boron	**0.51**	**mg/L**	**0.0088**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.0019**
Calcium	**73**	**mg/L**	**0.26**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.037**
Lithium	**0.012**	**mg/L**	**0.0025**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**	**N**	**0.00085**
Magnesium	**11**	**mg/L**	**0.10**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.010**
Potassium	**38**	**mg/L**	**0.25**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.036**
Sodium	**50**	**mg/L**	**0.12**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.030**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T187589										
Antimony	**0.0012**	**mg/L**	**0.00025**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00010**
Arsenic	**0.013**	**mg/L**	**0.00055**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00010**
Barium	**0.19**	**mg/L**	**0.0025**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00030**
Beryllium	<0.00010	mg/L	0.00025	1	08/21/26	kra	08/24/26	cma		0.00010
Cadmium	<0.000075	mg/L	0.00025	1	08/21/26	kra	08/24/26	cma		0.000075
Chromium	**0.0011**	**mg/L**	**0.00025**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00020**
Cobalt	**0.00014**	**mg/L**	**0.00052**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**	**J**	**0.00010**
Lead	**0.0063**	**mg/L**	**0.00055**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00010**
Molybdenum	**0.017**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00032**
Nickel	**0.0025**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00015**
Selenium	**0.00035**	**mg/L**	**0.00050**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**	**J**	**0.00010**
Thallium	<0.000075	mg/L	0.00038	1	08/21/26	kra	08/24/26	cma		0.000075
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T187128										
Fluoride	**0.53**	**mg/L**	**0.20**	**10**	**08/12/26**	**aeo**	**08/13/26**	**aeo**	**N**	**0.11**
Chloride	**15**	**mg/L**	**1.5**	**10**	**08/12/26**	**aeo**	**08/13/26**	**aeo**		**1.2**
Sulfate as SO4	**16**	**mg/L**	**6.0**	**10**	**08/12/26**	**aeo**	**08/13/26**	**aeo**		**0.58**

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-16 | Date Collected: 08/11/26 10:38 | Matrix: Ground Water
Sample ID: MW-36 | Date Received: 08/12/26 08:19

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: SM 2320 B-21										
Batch: T187534										
Bicarbonate Alkalinity as CaCO3 at pH 4.5	**310**	**mg/L**	**5.0**	**1**	**08/20/26**	**aeo**	**08/20/26**	**aeo**	**N**	**0.16**
Carbonate Alkalinity as CaCO3 at pH 8.2	**45**	**mg/L**	**5.0**	**1**	**08/20/26**	**aeo**	**08/20/26**	**aeo**	**N**	**0.16**
Total Alkalinity as CaCO3 at pH 4.5	**350**	**mg/L**	**5.0**	**1**	**08/20/26**	**aeo**	**08/20/26**	**aeo**		**0.16**
Analysis Method: SM 2540 C-20										
Batch: T187119										
Total Dissolved Solids	**460**	**mg/L**	**40**	**4**	**08/12/26**	**sw**	**08/12/26**	**sw**		
Analysis Method: SM 2540 D-20										
Batch: T187143										
Total Suspended Solids	<4.0	mg/L	10	1	08/12/26	sw	08/12/26	sw		4.0
Analysis Method: SM 4500-H+ B-11 (Lab)										
Batch: T187154										
pH	**8.60**	**pH Units**		**1**	**08/11/26**	**ln**	**08/12/26**	**ln**	**H02, PH01o**	

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-17 | Date Collected: 08/11/26 12:40 | Matrix: Ground Water
Sample ID: MW-01RB | Date Received: 08/12/26 08:19

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 1631E										
Batch: T187671										
Mercury	<	ng/L	0.50	1	08/25/26	cma	08/27/26	cma		
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T187589										
Boron	**5.2**	**mg/L**	**0.088**	**10**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.019**
Calcium	**130**	**mg/L**	**2.6**	**10**	**08/21/26**	**kra**	**08/28/26**	**jma**		**0.37**
Lithium	**0.062**	**mg/L**	**0.0025**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**	**N**	**0.00085**
Magnesium	**28**	**mg/L**	**0.10**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.010**
Potassium	**8.9**	**mg/L**	**0.25**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.036**
Sodium	**50**	**mg/L**	**0.12**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.030**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T187589										
Antimony	<0.00010	mg/L	0.00025	1	08/21/26	kra	08/24/26	cma		0.00010
Arsenic	**0.0021**	**mg/L**	**0.00055**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00010**
Barium	**0.25**	**mg/L**	**0.0025**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00030**
Beryllium	<0.00010	mg/L	0.00025	1	08/21/26	kra	08/24/26	cma		0.00010
Cadmium	<0.000075	mg/L	0.00025	1	08/21/26	kra	08/24/26	cma		0.000075
Chromium	**0.00046**	**mg/L**	**0.00025**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00020**
Cobalt	**0.00087**	**mg/L**	**0.00052**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00010**
Lead	**0.00013**	**mg/L**	**0.00055**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**	**J**	**0.00010**
Molybdenum	**0.00093**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**	**J**	**0.00032**
Nickel	**0.00060**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**	**J**	**0.00015**
Selenium	<0.00010	mg/L	0.00050	1	08/21/26	kra	08/24/26	cma		0.00010
Thallium	<0.000075	mg/L	0.00038	1	08/21/26	kra	08/24/26	cma		0.000075
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T187128										
Fluoride	**0.40**	**mg/L**	**0.20**	**10**	**08/12/26**	**aeo**	**08/13/26**	**aeo**	**N**	**0.11**
Chloride	**45**	**mg/L**	**1.5**	**10**	**08/12/26**	**aeo**	**08/13/26**	**aeo**		**1.2**
Sulfate as SO4	**0.65**	**mg/L**	**6.0**	**10**	**08/12/26**	**aeo**	**08/13/26**	**aeo**	**J**	**0.58**

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-17 | Date Collected: 08/11/26 12:40 | Matrix: Ground Water
Sample ID: MW-01RB | Date Received: 08/12/26 08:19

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: SM 2320 B-21										
Batch: T187534										
Bicarbonate Alkalinity as CaCO3 at pH 4.5	**520**	**mg/L**	**5.0**	**1**	**08/20/26**	**aeo**	**08/20/26**	**aeo**	**N**	**0.16**
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.16	mg/L	5.0	1	08/20/26	aeo	08/20/26	aeo	N	0.16
Total Alkalinity as CaCO3 at pH 4.5	**520**	**mg/L**	**5.0**	**1**	**08/20/26**	**aeo**	**08/20/26**	**aeo**		**0.16**
Analysis Method: SM 2540 C-20										
Batch: T187119										
Total Dissolved Solids	**660**	**mg/L**	**40**	**4**	**08/12/26**	**sw**	**08/12/26**	**sw**		
Analysis Method: SM 2540 D-20										
Batch: T187143										
Total Suspended Solids	**57**	**mg/L**	**10**	**1**	**08/12/26**	**sw**	**08/12/26**	**sw**		**4.0**
Analysis Method: SM 4500-H+ B-11 (Lab)										
Batch: T187154										
pH	**6.98**	**pH Units**		**1**	**08/11/26**	**ln**	**08/12/26**	**ln**	**PH01p**	

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-18 | Date Collected: 08/11/26 13:40 | Matrix: Ground Water
Sample ID: MW-01R | Date Received: 08/12/26 08:19

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 1631E										
Batch: T187671										
Mercury	<	ng/L	0.50	1	08/25/26	cma	08/27/26	cma		
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T187589										
Boron	**130**	**mg/L**	**0.088**	**10**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.019**
Calcium	**200**	**mg/L**	**2.6**	**10**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.37**
Lithium	**2.7**	**mg/L**	**0.0025**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**	**N**	**0.00085**
Magnesium	**86**	**mg/L**	**0.50**	**10**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.10**
Potassium	**90**	**mg/L**	**0.25**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.036**
Sodium	**340**	**mg/L**	**1.2**	**10**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.30**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T187589										
Antimony	**0.00037**	**mg/L**	**0.00025**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00010**
Arsenic	**0.0016**	**mg/L**	**0.00055**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00010**
Barium	**0.39**	**mg/L**	**0.0025**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00030**
Beryllium	**0.00044**	**mg/L**	**0.00025**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00010**
Cadmium	**0.00052**	**mg/L**	**0.00025**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.000075**
Chromium	**0.0036**	**mg/L**	**0.00025**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00020**
Cobalt	**0.0025**	**mg/L**	**0.00052**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00010**
Lead	**0.0026**	**mg/L**	**0.00055**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00010**
Molybdenum	**0.00052**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**	**J**	**0.00032**
Nickel	**0.0032**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00015**
Selenium	**0.00084**	**mg/L**	**0.00050**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00010**
Thallium	<0.000075	mg/L	0.00038	1	08/21/26	kra	08/24/26	cma		0.000075
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T187128										
Fluoride	**12**	**mg/L**	**0.20**	**10**	**08/12/26**	**aeo**	**08/13/26**	**aeo**	**N**	**0.11**
Chloride	**97**	**mg/L**	**1.5**	**10**	**08/12/26**	**aeo**	**08/13/26**	**aeo**		**1.2**
Sulfate as SO4	**380**	**mg/L**	**30**	**50**	**08/12/26**	**aeo**	**08/13/26**	**aeo**		**2.9**

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-18 | Date Collected: 08/11/26 13:40 | Matrix: Ground Water
Sample ID: MW-01R | Date Received: 08/12/26 08:19

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: SM 2320 B-21										
Batch: T187534										
Bicarbonate Alkalinity as CaCO3 at pH 4.5	**1400**	**mg/L**	**5.0**	**1**	**08/20/26**	**aeo**	**08/20/26**	**aeo**	**N**	**0.16**
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.16	mg/L	5.0	1	08/20/26	aeo	08/20/26	aeo	N	0.16
Total Alkalinity as CaCO3 at pH 4.5	**1400**	**mg/L**	**5.0**	**1**	**08/20/26**	**aeo**	**08/20/26**	**aeo**		**0.16**
Analysis Method: SM 2540 C-20										
Batch: T187119										
Total Dissolved Solids	**2600**	**mg/L**	**40**	**4**	**08/12/26**	**sw**	**08/12/26**	**sw**		
Analysis Method: SM 2540 D-20										
Batch: T187143										
Total Suspended Solids	<3.9	mg/L	9.8	0.9803922	08/12/26	sw	08/12/26	sw		3.9
Analysis Method: SM 4500-H+ B-11 (Lab)										
Batch: T187154										
pH	**7.55**	**pH Units**		**1**	**08/11/26**	**ln**	**08/12/26**	**ln**	**PH01q**	

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-19 Date Collected: 08/11/26 15:02 Matrix: Ground Water
Sample ID: MW-13 Date Received: 08/12/26 08:19

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 1631E										
Batch: T187671										
Mercury	<	ng/L	0.50	1	08/25/26	cma	08/27/26	cma		
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T187589										
Boron	**1.4**	**mg/L**	**0.0088**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.0019**
Calcium	**310**	**mg/L**	**2.6**	**10**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.37**
Lithium	**0.037**	**mg/L**	**0.0025**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**	**N**	**0.00085**
Magnesium	**20**	**mg/L**	**0.10**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.010**
Potassium	**17**	**mg/L**	**0.25**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.036**
Sodium	**30**	**mg/L**	**0.12**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.030**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T187589										
Antimony	<0.00010	mg/L	0.00025	1	08/21/26	kra	08/24/26	cma		0.00010
Arsenic	**0.00034**	**mg/L**	**0.00055**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**	**J**	**0.00010**
Barium	**0.13**	**mg/L**	**0.0025**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00030**
Beryllium	<0.00010	mg/L	0.00025	1	08/21/26	kra	08/24/26	cma		0.00010
Cadmium	<0.000075	mg/L	0.00025	1	08/21/26	kra	08/24/26	cma		0.000075
Chromium	**0.0016**	**mg/L**	**0.00025**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00020**
Cobalt	**0.00014**	**mg/L**	**0.00052**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**	**J**	**0.00010**
Lead	<0.00010	mg/L	0.00055	1	08/21/26	kra	08/24/26	cma		0.00010
Molybdenum	**0.0014**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00032**
Nickel	**0.0022**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00015**
Selenium	**0.00014**	**mg/L**	**0.00050**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**	**J**	**0.00010**
Thallium	<0.000075	mg/L	0.00038	1	08/21/26	kra	08/24/26	cma		0.000075
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T187128										
Fluoride	**0.68**	**mg/L**	**0.20**	**10**	**08/12/26**	**aeo**	**08/13/26**	**aeo**	**N**	**0.11**
Chloride	**13**	**mg/L**	**1.5**	**10**	**08/12/26**	**aeo**	**08/13/26**	**aeo**		**1.2**
Sulfate as SO4	**490**	**mg/L**	**30**	**50**	**08/12/26**	**aeo**	**08/13/26**	**aeo**		**2.9**

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-19 | Date Collected: 08/11/26 15:02 | Matrix: Ground Water
Sample ID: MW-13 | Date Received: 08/12/26 08:19

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: SM 2320 B-21										
Batch: T187534										
Bicarbonate Alkalinity as CaCO3 at pH 4.5	**470**	**mg/L**	**5.0**	**1**	**08/20/26**	**aeo**	**08/20/26**	**aeo**	**N**	**0.16**
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.16	mg/L	5.0	1	08/20/26	aeo	08/20/26	aeo	N	0.16
Total Alkalinity as CaCO3 at pH 4.5	**470**	**mg/L**	**5.0**	**1**	**08/20/26**	**aeo**	**08/20/26**	**aeo**		**0.16**
Analysis Method: SM 2540 C-20										
Batch: T187119										
Total Dissolved Solids	**1300**	**mg/L**	**40**	**4**	**08/12/26**	**sw**	**08/12/26**	**sw**		
Analysis Method: SM 2540 D-20										
Batch: T187143										
Total Suspended Solids	<3.9	mg/L	9.8	0.9803922	08/12/26	sw	08/12/26	sw		3.9
Analysis Method: SM 4500-H+ B-11 (Lab)										
Batch: T187154										
pH	**7.41**	**pH Units**		**1**	**08/11/26**	**ln**	**08/12/26**	**ln**	**PH01r**	

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-20 Date Collected: 08/11/26 16:30 Matrix: Ground Water
Sample ID: MW-16 Date Received: 08/12/26 08:19

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 1631E										
Batch: T187671										
Mercury	<	ng/L	0.50	1	08/25/26	cma	08/27/26	cma		
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T187589										
Boron	**0.37**	**mg/L**	**0.0088**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.0019**
Calcium	**180**	**mg/L**	**2.6**	**10**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.37**
Lithium	**0.024**	**mg/L**	**0.0025**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**	**N**	**0.00085**
Magnesium	**18**	**mg/L**	**0.10**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.010**
Potassium	**4.8**	**mg/L**	**0.25**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.036**
Sodium	**21**	**mg/L**	**0.12**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.030**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T187589										
Antimony	<0.00010	mg/L	0.00025	1	08/21/26	kra	08/24/26	cma		0.00010
Arsenic	**0.017**	**mg/L**	**0.00055**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00010**
Barium	**0.32**	**mg/L**	**0.0025**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00030**
Beryllium	<0.00010	mg/L	0.00025	1	08/21/26	kra	08/24/26	cma		0.00010
Cadmium	<0.000075	mg/L	0.00025	1	08/21/26	kra	08/24/26	cma		0.000075
Chromium	**0.0017**	**mg/L**	**0.00025**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00020**
Cobalt	**0.00018**	**mg/L**	**0.00052**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**	**J**	**0.00010**
Lead	**0.00014**	**mg/L**	**0.00055**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**	**J**	**0.00010**
Molybdenum	<0.00032	mg/L	0.0012	1	08/21/26	kra	08/24/26	cma		0.00032
Nickel	**0.0054**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00015**
Selenium	**0.00022**	**mg/L**	**0.00050**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**	**J**	**0.00010**
Thallium	<0.000075	mg/L	0.00038	1	08/21/26	kra	08/24/26	cma		0.000075
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T187128										
Fluoride	**0.20**	**mg/L**	**0.20**	**10**	**08/12/26**	**aeo**	**08/13/26**	**aeo**	**N**	**0.11**
Chloride	**18**	**mg/L**	**1.5**	**10**	**08/12/26**	**aeo**	**08/13/26**	**aeo**		**1.2**
Sulfate as SO4	**15**	**mg/L**	**6.0**	**10**	**08/12/26**	**aeo**	**08/13/26**	**aeo**		**0.58**

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-20 Date Collected: 08/11/26 16:30 Matrix: Ground Water
Sample ID: MW-16 Date Received: 08/12/26 08:19

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: SM 2320 B-21										
Batch: T187534										
Bicarbonate Alkalinity as CaCO3 at pH 4.5	**530**	**mg/L**	**5.0**	**1**	**08/20/26**	**aeo**	**08/20/26**	**aeo**	**N**	**0.16**
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.16	mg/L	5.0	1	08/20/26	aeo	08/20/26	aeo	N	0.16
Total Alkalinity as CaCO3 at pH 4.5	**530**	**mg/L**	**5.0**	**1**	**08/20/26**	**aeo**	**08/20/26**	**aeo**		**0.16**
Analysis Method: SM 2540 C-20										
Batch: T187119										
Total Dissolved Solids	**640**	**mg/L**	**40**	**4**	**08/12/26**	**sw**	**08/12/26**	**sw**		
Analysis Method: SM 2540 D-20										
Batch: T187143										
Total Suspended Solids	**15**	**mg/L**	**9.6**	**0.9615384**	**08/12/26**	**sw**	**08/12/26**	**sw**		**3.8**
Analysis Method: SM 4500-H+ B-11 (Lab)										
Batch: T187154										
pH	**7.06**	**pH Units**		**1**	**08/11/26**	**ln**	**08/12/26**	**ln**	**PH01s**	

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-21 Date Collected: 08/11/26 16:30 Matrix: Ground Water
Sample ID: MWT-16 Date Received: 08/12/26 08:19

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 1631E										
Batch: T187675										
Mercury	**0.56**	**ng/L**	**0.50**	**1**	**08/24/26**	**cma**	**08/25/26**	**cma**		
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T187589										
Boron	**0.35**	**mg/L**	**0.0088**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.0019**
Calcium	**170**	**mg/L**	**2.6**	**10**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.37**
Lithium	**0.024**	**mg/L**	**0.0025**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**	**N**	**0.00085**
Magnesium	**18**	**mg/L**	**0.10**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.010**
Potassium	**4.8**	**mg/L**	**0.25**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.036**
Sodium	**21**	**mg/L**	**0.12**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.030**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T187589										
Antimony	<0.00010	mg/L	0.00025	1	08/21/26	kra	08/24/26	cma		0.00010
Arsenic	**0.017**	**mg/L**	**0.00055**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00010**
Barium	**0.31**	**mg/L**	**0.0025**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00030**
Beryllium	<0.00010	mg/L	0.00025	1	08/21/26	kra	08/24/26	cma		0.00010
Cadmium	<0.000075	mg/L	0.00025	1	08/21/26	kra	08/24/26	cma		0.000075
Chromium	**0.0016**	**mg/L**	**0.00025**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00020**
Cobalt	**0.00014**	**mg/L**	**0.00052**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**	**J**	**0.00010**
Lead	**0.00023**	**mg/L**	**0.00055**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**	**J**	**0.00010**
Molybdenum	<0.00032	mg/L	0.0012	1	08/21/26	kra	08/24/26	cma		0.00032
Nickel	**0.0022**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00015**
Selenium	**0.00019**	**mg/L**	**0.00050**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**	**J**	**0.00010**
Thallium	<0.000075	mg/L	0.00038	1	08/21/26	kra	08/24/26	cma		0.000075
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T187128										
Fluoride	**0.20**	**mg/L**	**0.20**	**10**	**08/12/26**	**aeo**	**08/13/26**	**aeo**	**N**	**0.11**
Chloride	**19**	**mg/L**	**1.5**	**10**	**08/12/26**	**aeo**	**08/13/26**	**aeo**		**1.2**
Sulfate as SO4	**16**	**mg/L**	**6.0**	**10**	**08/12/26**	**aeo**	**08/13/26**	**aeo**		**0.58**

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-21 Date Collected: 08/11/26 16:30 Matrix: Ground Water
Sample ID: MWT-16 Date Received: 08/12/26 08:19

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: SM 2320 B-21										
Batch: T187534										
Bicarbonate Alkalinity as CaCO3 at pH 4.5	**540**	**mg/L**	**5.0**	**1**	**08/20/26**	**aeo**	**08/20/26**	**aeo**	**N**	**0.16**
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.16	mg/L	5.0	1	08/20/26	aeo	08/20/26	aeo	N	0.16
Total Alkalinity as CaCO3 at pH 4.5	**540**	**mg/L**	**5.0**	**1**	**08/20/26**	**aeo**	**08/20/26**	**aeo**		**0.16**
Analysis Method: SM 2540 C-20										
Batch: T187119										
Total Dissolved Solids	**650**	**mg/L**	**40**	**4**	**08/12/26**	**sw**	**08/12/26**	**sw**		
Analysis Method: SM 2540 D-20										
Batch: T187143										
Total Suspended Solids	**14**	**mg/L**	**10**	**1**	**08/12/26**	**sw**	**08/12/26**	**sw**		**4.0**
Analysis Method: SM 4500-H+ B-11 (Lab)										
Batch: T187154										
pH	**7.06**	**pH Units**		**1**	**08/11/26**	**ln**	**08/12/26**	**ln**	**PH01t**	

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-22 Date Collected: 08/11/26 17:20 Matrix: Aqueous
Sample ID: LLHGTB-08112026 Date Received: 08/12/26 08:19

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 1631E										
Batch: T187675										
Mercury	<	ng/L	0.20	1	08/24/26	cma	08/25/26	cma		

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-23 Date Collected: 08/12/26 10:00 Matrix: Ground Water
Sample ID: MW-39 Date Received: 08/14/26 09:12

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 1631E										
Batch: T187675										
Mercury	**1.9**	**ng/L**	**0.50**	**1**	**08/24/26**	**cma**	**08/25/26**	**cma**		
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T187536										
Boron	**1.1**	**mg/L**	**0.0088**	**1**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.0019**
Calcium	**180**	**mg/L**	**2.6**	**10**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.37**
Lithium	**0.028**	**mg/L**	**0.0025**	**1**	**08/20/26**	**kra**	**08/25/26**	**jma**	**N**	**0.00085**
Magnesium	**27**	**mg/L**	**0.10**	**1**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.010**
Potassium	**9.6**	**mg/L**	**0.25**	**1**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.036**
Sodium	**24**	**mg/L**	**0.12**	**1**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.030**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T187536										
Antimony	<0.00010	mg/L	0.00025	1	08/20/26	kra	08/21/26	cma		0.00010
Arsenic	**0.0011**	**mg/L**	**0.00055**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00010**
Barium	**0.14**	**mg/L**	**0.0025**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00030**
Beryllium	<0.00010	mg/L	0.00025	1	08/20/26	kra	08/21/26	cma		0.00010
Cadmium	**0.00022**	**mg/L**	**0.00025**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**	**J**	**0.000075**
Chromium	**0.0030**	**mg/L**	**0.00025**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00020**
Cobalt	**0.00039**	**mg/L**	**0.00052**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**	**J**	**0.00010**
Lead	**0.00076**	**mg/L**	**0.00055**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00010**
Molybdenum	**0.00040**	**mg/L**	**0.0012**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**	**J**	**0.00032**
Nickel	**0.0014**	**mg/L**	**0.0012**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00015**
Selenium	**0.00023**	**mg/L**	**0.00050**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**	**J**	**0.00010**
Thallium	<0.000075	mg/L	0.00038	1	08/20/26	kra	08/21/26	cma		0.000075
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T187265										
Fluoride	**0.29**	**mg/L**	**0.20**	**10**	**08/14/26**	**aeo**	**08/15/26**	**aeo**	**N**	**0.11**
Chloride	**23**	**mg/L**	**1.5**	**10**	**08/14/26**	**aeo**	**08/15/26**	**aeo**		**1.2**
Sulfate as SO4	**26**	**mg/L**	**6.0**	**10**	**08/14/26**	**aeo**	**08/15/26**	**aeo**		**0.58**

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-23 | Date Collected: 08/12/26 10:00 | Matrix: Ground Water
Sample ID: MW-39 | Date Received: 08/14/26 09:12

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: SM 2320 B-21										
Batch: T187535										
Bicarbonate Alkalinity as CaCO3 at pH 4.5	**590**	**mg/L**	**5.0**	**1**	**08/20/26**	**aeo**	**08/20/26**	**aeo**	**N**	**0.16**
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.16	mg/L	5.0	1	08/20/26	aeo	08/20/26	aeo	N	0.16
Total Alkalinity as CaCO3 at pH 4.5	**590**	**mg/L**	**5.0**	**1**	**08/20/26**	**aeo**	**08/20/26**	**aeo**		**0.16**
Analysis Method: SM 2540 C-20										
Batch: T187270										
Total Dissolved Solids	**710**	**mg/L**	**40**	**4**	**08/14/26**	**sw**	**08/14/26**	**sw**		
Analysis Method: SM 2540 D-20										
Batch: T187322										
Total Suspended Solids	**30**	**mg/L**	**4.0**	**0.4**	**08/17/26**	**sw**	**08/17/26**	**sw**		**1.6**
Analysis Method: SM 4500-H+ B-11 (Lab)										
Batch: T187331										
pH	**7.48**	**pH Units**		**1**	**08/12/26**	**hm**	**08/14/26**	**ln**	**H04, PH01u**	

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-24 Date Collected: 08/12/26 11:44 Matrix: Ground Water
Sample ID: MW-02 Date Received: 08/14/26 09:12

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 1631E										
Batch: T187675										
Mercury	**1.1**	**ng/L**	**1.0**	**5**	**08/24/26**	**cma**	**08/25/26**	**cma**		
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T187589										
Boron	**91**	**mg/L**	**0.088**	**10**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.019**
Calcium	**140**	**mg/L**	**2.6**	**10**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.37**
Lithium	**1.2**	**mg/L**	**0.0025**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**	**N**	**0.00085**
Magnesium	**61**	**mg/L**	**0.10**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.010**
Potassium	**46**	**mg/L**	**0.25**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.036**
Sodium	**210**	**mg/L**	**1.2**	**10**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.30**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T187589										
Antimony	**0.00012**	**mg/L**	**0.00025**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**	**J**	**0.00010**
Arsenic	**0.0046**	**mg/L**	**0.00055**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00010**
Barium	**0.52**	**mg/L**	**0.0025**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00030**
Beryllium	**0.00028**	**mg/L**	**0.00025**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00010**
Cadmium	<0.000075	mg/L	0.00025	1	08/21/26	kra	08/24/26	cma		0.000075
Chromium	**0.025**	**mg/L**	**0.00025**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00020**
Cobalt	**0.0039**	**mg/L**	**0.00052**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00010**
Lead	**0.00042**	**mg/L**	**0.00055**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**	**J**	**0.00010**
Molybdenum	**0.00091**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**	**J**	**0.00032**
Nickel	**0.015**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00015**
Selenium	**0.00098**	**mg/L**	**0.00050**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00010**
Thallium	<0.000075	mg/L	0.00038	1	08/21/26	kra	08/24/26	cma		0.000075
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T187265										
Fluoride	**10**	**mg/L**	**0.20**	**10**	**08/14/26**	**aeo**	**08/15/26**	**aeo**	**N**	**0.11**
Chloride	**150**	**mg/L**	**1.5**	**10**	**08/14/26**	**aeo**	**08/15/26**	**aeo**		**1.2**
Sulfate as SO4	**5.1**	**mg/L**	**6.0**	**10**	**08/14/26**	**aeo**	**08/15/26**	**aeo**	**J**	**0.58**

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-24 | Date Collected: 08/12/26 11:44 | Matrix: Ground Water
Sample ID: MW-02 | Date Received: 08/14/26 09:12

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: SM 2320 B-21										
Batch: T187535										
Bicarbonate Alkalinity as CaCO3 at pH 4.5	**2000**	**mg/L**	**5.0**	**1**	**08/20/26**	**aeo**	**08/20/26**	**aeo**	**N**	**0.16**
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.16	mg/L	5.0	1	08/20/26	aeo	08/20/26	aeo	N	0.16
Total Alkalinity as CaCO3 at pH 4.5	**2000**	**mg/L**	**5.0**	**1**	**08/20/26**	**aeo**	**08/20/26**	**aeo**		**0.16**
Analysis Method: SM 2540 C-20										
Batch: T187270										
Total Dissolved Solids	**1900**	**mg/L**	**40**	**4**	**08/14/26**	**sw**	**08/14/26**	**sw**		
Analysis Method: SM 2540 D-20										
Batch: T187322										
Total Suspended Solids	**89**	**mg/L**	**4.0**	**0.3731343**	**08/17/26**	**sw**	**08/17/26**	**sw**		**1.5**
Analysis Method: SM 4500-H+ B-11 (Lab)										
Batch: T187331										
pH	**7.14**	**pH Units**		**1**	**08/12/26**	**hm**	**08/14/26**	**ln**	**H04, PH01v**	

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-25 Date Collected: 08/12/26 13:40 Matrix: Ground Water
Sample ID: MW-11 Date Received: 08/14/26 09:12

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 1631E										
Batch: T187675										
Mercury	**2.4**	**ng/L**	**0.50**	**1**	**08/24/26**	**cma**	**08/25/26**	**cma**		
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T187536										
Boron	**4.8**	**mg/L**	**0.088**	**10**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.019**
Calcium	**310**	**mg/L**	**2.6**	**10**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.37**
Lithium	**0.049**	**mg/L**	**0.0025**	**1**	**08/20/26**	**kra**	**08/25/26**	**jma**	**N**	**0.00085**
Magnesium	**70**	**mg/L**	**0.10**	**1**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.010**
Potassium	**12**	**mg/L**	**0.25**	**1**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.036**
Sodium	**45**	**mg/L**	**0.12**	**1**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.030**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T187536										
Antimony	<0.00010	mg/L	0.00025	1	08/20/26	kra	08/21/26	cma		0.00010
Arsenic	**0.0010**	**mg/L**	**0.00055**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00010**
Barium	**0.73**	**mg/L**	**0.0025**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00030**
Beryllium	<0.00010	mg/L	0.00025	1	08/20/26	kra	08/21/26	cma		0.00010
Cadmium	<0.000075	mg/L	0.00025	1	08/20/26	kra	08/21/26	cma		0.000075
Chromium	**0.0010**	**mg/L**	**0.00025**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00020**
Cobalt	**0.00034**	**mg/L**	**0.00052**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**	**J**	**0.00010**
Lead	**0.0030**	**mg/L**	**0.00055**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00010**
Molybdenum	**0.00036**	**mg/L**	**0.0012**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**	**J**	**0.00032**
Nickel	**0.0011**	**mg/L**	**0.0012**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**	**J**	**0.00015**
Selenium	**0.00023**	**mg/L**	**0.00050**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**	**J**	**0.00010**
Thallium	<0.000075	mg/L	0.00038	1	08/20/26	kra	08/21/26	cma		0.000075
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T187265										
Fluoride	**0.78**	**mg/L**	**0.20**	**10**	**08/14/26**	**aeo**	**08/15/26**	**aeo**	**N**	**0.11**
Chloride	**76**	**mg/L**	**1.5**	**10**	**08/14/26**	**aeo**	**08/15/26**	**aeo**		**1.2**
Sulfate as SO4	**41**	**mg/L**	**6.0**	**10**	**08/14/26**	**aeo**	**08/15/26**	**aeo**		**0.58**

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-25 | Date Collected: 08/12/26 13:40 | Matrix: Ground Water
Sample ID: MW-11 | Date Received: 08/14/26 09:12

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: SM 2320 B-21										
Batch: T187535										
Bicarbonate Alkalinity as CaCO3 at pH 4.5	**980**	**mg/L**	**5.0**	**1**	**08/20/26**	**aeo**	**08/20/26**	**aeo**	**N**	**0.16**
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.16	mg/L	5.0	1	08/20/26	aeo	08/20/26	aeo	N	0.16
Total Alkalinity as CaCO3 at pH 4.5	**980**	**mg/L**	**5.0**	**1**	**08/20/26**	**aeo**	**08/20/26**	**aeo**		**0.16**
Analysis Method: SM 2540 C-20										
Batch: T187270										
Total Dissolved Solids	**1200**	**mg/L**	**40**	**4**	**08/14/26**	**sw**	**08/14/26**	**sw**		
Analysis Method: SM 2540 D-20										
Batch: T187322										
Total Suspended Solids	**23**	**mg/L**	**4.0**	**0.3921569**	**08/17/26**	**sw**	**08/17/26**	**sw**		**1.6**
Analysis Method: SM 4500-H+ B-11 (Lab)										
Batch: T187331										
pH	**7.21**	**pH Units**		**1**	**08/12/26**	**hm**	**08/14/26**	**ln**	**H04, PH01w**	

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-26 Date Collected: 08/12/26 14:48 Matrix: Ground Water
Sample ID: MW-06 Date Received: 08/14/26 09:12

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 1631E										
Batch: T187675										
Mercury	<	ng/L	0.50	1	08/24/26	cma	08/25/26	cma		
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T187536										
Boron	**9.8**	**mg/L**	**0.088**	**10**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.019**
Calcium	**190**	**mg/L**	**2.6**	**10**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.37**
Lithium	**0.15**	**mg/L**	**0.0025**	**1**	**08/20/26**	**kra**	**08/25/26**	**jma**	**N**	**0.00085**
Magnesium	**100**	**mg/L**	**0.50**	**10**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.10**
Potassium	**23**	**mg/L**	**0.25**	**1**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.036**
Sodium	**75**	**mg/L**	**0.12**	**1**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.030**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T187536										
Antimony	<0.00010	mg/L	0.00025	1	08/20/26	kra	08/21/26	cma		0.00010
Arsenic	**0.00056**	**mg/L**	**0.00055**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00010**
Barium	**0.87**	**mg/L**	**0.0025**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00030**
Beryllium	<0.00010	mg/L	0.00025	1	08/20/26	kra	08/21/26	cma		0.00010
Cadmium	<0.000075	mg/L	0.00025	1	08/20/26	kra	08/21/26	cma		0.000075
Chromium	**0.0011**	**mg/L**	**0.00025**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00020**
Cobalt	**0.00030**	**mg/L**	**0.00052**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**	**J**	**0.00010**
Lead	**0.00021**	**mg/L**	**0.00055**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**	**J**	**0.00010**
Molybdenum	**0.00045**	**mg/L**	**0.0012**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**	**J**	**0.00032**
Nickel	**0.00063**	**mg/L**	**0.0012**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**	**J**	**0.00015**
Selenium	**0.00016**	**mg/L**	**0.00050**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**	**J**	**0.00010**
Thallium	<0.000075	mg/L	0.00038	1	08/20/26	kra	08/21/26	cma		0.000075
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T187265										
Fluoride	**1.7**	**mg/L**	**0.20**	**10**	**08/14/26**	**aeo**	**08/15/26**	**aeo**	**N**	**0.11**
Chloride	**24**	**mg/L**	**1.5**	**10**	**08/14/26**	**aeo**	**08/15/26**	**aeo**		**1.2**
Sulfate as SO4	**94**	**mg/L**	**6.0**	**10**	**08/14/26**	**aeo**	**08/15/26**	**aeo**		**0.58**

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-26 | Date Collected: 08/12/26 14:48 | Matrix: Ground Water
Sample ID: MW-06 | Date Received: 08/14/26 09:12

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: SM 2320 B-21										
Batch: T187535										
Bicarbonate Alkalinity as CaCO3 at pH 4.5	**940**	**mg/L**	**5.0**	**1**	**08/20/26**	**aeo**	**08/20/26**	**aeo**	**N**	**0.16**
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.16	mg/L	5.0	1	08/20/26	aeo	08/20/26	aeo	N	0.16
Total Alkalinity as CaCO3 at pH 4.5	**940**	**mg/L**	**5.0**	**1**	**08/20/26**	**aeo**	**08/20/26**	**aeo**		**0.16**
Analysis Method: SM 2540 C-20										
Batch: T187270										
Total Dissolved Solids	**1100**	**mg/L**	**40**	**4**	**08/14/26**	**sw**	**08/14/26**	**sw**		
Analysis Method: SM 2540 D-20										
Batch: T187322										
Total Suspended Solids	**1.6**	**mg/L**	**4.0**	**0.4**	**08/17/26**	**sw**	**08/17/26**	**sw**	**J**	**1.6**
Analysis Method: SM 4500-H+ B-11 (Lab)										
Batch: T187331										
pH	**7.49**	**pH Units**		**1**	**08/12/26**	**hm**	**08/14/26**	**ln**	**H04, PH01x**	

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-27 Date Collected: 08/12/26 16:02 Matrix: Ground Water
Sample ID: MW-34 Date Received: 08/14/26 09:12

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 1631E										
Batch: T187675										
Mercury	**2.1**	**ng/L**	**0.50**	**1**	**08/24/26**	**cma**	**08/25/26**	**cma**		
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T187536										
Boron	**3.0**	**mg/L**	**0.088**	**10**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.019**
Calcium	**220**	**mg/L**	**2.6**	**10**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.37**
Lithium	**0.082**	**mg/L**	**0.0025**	**1**	**08/20/26**	**kra**	**08/25/26**	**jma**	**N**	**0.00085**
Magnesium	**24**	**mg/L**	**0.10**	**1**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.010**
Potassium	**10**	**mg/L**	**0.25**	**1**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.036**
Sodium	**26**	**mg/L**	**0.12**	**1**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.030**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T187536										
Antimony	**0.00012**	**mg/L**	**0.00025**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**	**J**	**0.00010**
Arsenic	**0.0011**	**mg/L**	**0.00055**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00010**
Barium	**0.48**	**mg/L**	**0.0025**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00030**
Beryllium	<0.00010	mg/L	0.00025	1	08/20/26	kra	08/21/26	cma		0.00010
Cadmium	<0.000075	mg/L	0.00025	1	08/20/26	kra	08/21/26	cma		0.000075
Chromium	**0.022**	**mg/L**	**0.00025**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00020**
Cobalt	**0.0012**	**mg/L**	**0.00052**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00010**
Lead	**0.00048**	**mg/L**	**0.00055**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**	**J**	**0.00010**
Molybdenum	<0.00032	mg/L	0.0012	1	08/20/26	kra	08/21/26	cma		0.00032
Nickel	**0.0022**	**mg/L**	**0.0012**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00015**
Selenium	**0.00029**	**mg/L**	**0.00050**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**	**J**	**0.00010**
Thallium	<0.000075	mg/L	0.00038	1	08/20/26	kra	08/21/26	cma		0.000075
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T187265										
Fluoride	**0.55**	**mg/L**	**0.20**	**10**	**08/14/26**	**aeo**	**08/15/26**	**aeo**	**N**	**0.11**
Chloride	**25**	**mg/L**	**1.5**	**10**	**08/14/26**	**aeo**	**08/15/26**	**aeo**		**1.2**
Sulfate as SO4	**0.98**	**mg/L**	**6.0**	**10**	**08/14/26**	**aeo**	**08/15/26**	**aeo**	**J**	**0.58**

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-27 Date Collected: 08/12/26 16:02 Matrix: Ground Water
Sample ID: MW-34 Date Received: 08/14/26 09:12

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: SM 2320 B-21										
Batch: T187535										
Bicarbonate Alkalinity as CaCO3 at pH 4.5	**1000**	**mg/L**	**5.0**	**1**	**08/20/26**	**aeo**	**08/20/26**	**aeo**	**N**	**0.16**
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.16	mg/L	5.0	1	08/20/26	aeo	08/20/26	aeo	N	0.16
Total Alkalinity as CaCO3 at pH 4.5	**1000**	**mg/L**	**5.0**	**1**	**08/20/26**	**aeo**	**08/20/26**	**aeo**		**0.16**
Analysis Method: SM 2540 C-20										
Batch: T187270										
Total Dissolved Solids	**810**	**mg/L**	**40**	**4**	**08/14/26**	**sw**	**08/14/26**	**sw**		
Analysis Method: SM 2540 D-20										
Batch: T187322										
Total Suspended Solids	**150**	**mg/L**	**4.0**	**0.4**	**08/17/26**	**sw**	**08/17/26**	**sw**		**1.6**
Analysis Method: SM 4500-H+ B-11 (Lab)										
Batch: T187331										
pH	**6.73**	**pH Units**		**1**	**08/12/26**	**hm**	**08/14/26**	**ln**	**H04, PH01y**	

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-28 Date Collected: 08/12/26 09:35 Matrix: Ground Water
Sample ID: MW-19 Date Received: 08/14/26 09:12

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 1631E										
Batch: T187675										
Mercury	<	ng/L	0.50	1	08/24/26	cma	08/25/26	cma		
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T187536										
Boron	**2.7**	**mg/L**	**0.088**	**10**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.019**
Calcium	**400**	**mg/L**	**2.6**	**10**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.37**
Lithium	**0.081**	**mg/L**	**0.0025**	**1**	**08/20/26**	**kra**	**08/25/26**	**jma**	**N**	**0.00085**
Magnesium	**39**	**mg/L**	**0.10**	**1**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.010**
Potassium	**13**	**mg/L**	**0.25**	**1**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.036**
Sodium	**25**	**mg/L**	**0.12**	**1**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.030**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T187536										
Antimony	<0.00010	mg/L	0.00025	1	08/20/26	kra	08/21/26	cma		0.00010
Arsenic	**0.0023**	**mg/L**	**0.00055**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00010**
Barium	**0.033**	**mg/L**	**0.0025**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00030**
Beryllium	**0.00011**	**mg/L**	**0.00025**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**	**J**	**0.00010**
Cadmium	<0.000075	mg/L	0.00025	1	08/20/26	kra	08/21/26	cma		0.000075
Chromium	**0.00024**	**mg/L**	**0.00025**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**	**J**	**0.00020**
Cobalt	<0.00010	mg/L	0.00052	1	08/20/26	kra	08/21/26	cma		0.00010
Lead	<0.00010	mg/L	0.00055	1	08/20/26	kra	08/21/26	cma		0.00010
Molybdenum	**0.011**	**mg/L**	**0.0012**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00032**
Nickel	**0.0017**	**mg/L**	**0.0012**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00015**
Selenium	**0.00011**	**mg/L**	**0.00050**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**	**J**	**0.00010**
Thallium	<0.000075	mg/L	0.00038	1	08/20/26	kra	08/21/26	cma		0.000075
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T187265										
Fluoride	**2.0**	**mg/L**	**0.20**	**10**	**08/14/26**	**aeo**	**08/15/26**	**aeo**	**N**	**0.11**
Chloride	**25**	**mg/L**	**1.5**	**10**	**08/14/26**	**aeo**	**08/15/26**	**aeo**		**1.2**
Sulfate as SO4	**940**	**mg/L**	**150**	**250**	**08/14/26**	**aeo**	**08/15/26**	**aeo**		**14**

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-28 | Date Collected: 08/12/26 09:35 | Matrix: Ground Water
Sample ID: MW-19 | Date Received: 08/14/26 09:12

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: SM 2320 B-21										
Batch: T187535										
Bicarbonate Alkalinity as CaCO3 at pH 4.5	**240**	**mg/L**	**5.0**	**1**	**08/20/26**	**aeo**	**08/20/26**	**aeo**	**N**	**0.16**
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.16	mg/L	5.0	1	08/20/26	aeo	08/20/26	aeo	N	0.16
Total Alkalinity as CaCO3 at pH 4.5	**240**	**mg/L**	**5.0**	**1**	**08/20/26**	**aeo**	**08/20/26**	**aeo**		**0.16**
Analysis Method: SM 2540 C-20										
Batch: T187270										
Total Dissolved Solids	**1700**	**mg/L**	**40**	**4**	**08/14/26**	**sw**	**08/14/26**	**sw**		
Analysis Method: SM 2540 D-20										
Batch: T187322										
Total Suspended Solids	**22**	**mg/L**	**4.0**	**0.3846154**	**08/17/26**	**sw**	**08/17/26**	**sw**		**1.5**
Analysis Method: SM 4500-H+ B-11 (Lab)										
Batch: T187331										
pH	**6.90**	**pH Units**		**1**	**08/12/26**	**hm**	**08/14/26**	**ln**	**H04, PH01z**	

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-29 Date Collected: 08/12/26 10:40 Matrix: Ground Water
Sample ID: MW-32 Date Received: 08/14/26 09:12

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 1631E										
Batch: T187675										
Mercury	**0.73**	**ng/L**	**0.50**	**1**	**08/24/26**	**cma**	**08/25/26**	**cma**		
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T187536										
Boron	**4.3**	**mg/L**	**0.088**	**10**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.019**
Calcium	**170**	**mg/L**	**2.6**	**10**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.37**
Lithium	**0.15**	**mg/L**	**0.0025**	**1**	**08/20/26**	**kra**	**08/25/26**	**jma**	**N**	**0.00085**
Magnesium	**28**	**mg/L**	**0.10**	**1**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.010**
Potassium	**10**	**mg/L**	**0.25**	**1**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.036**
Sodium	**27**	**mg/L**	**0.12**	**1**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.030**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T187536										
Antimony	<0.00010	mg/L	0.00025	1	08/20/26	kra	08/21/26	cma		0.00010
Arsenic	**0.00054**	**mg/L**	**0.00055**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**	**J**	**0.00010**
Barium	**0.24**	**mg/L**	**0.0025**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00030**
Beryllium	<0.00010	mg/L	0.00025	1	08/20/26	kra	08/21/26	cma		0.00010
Cadmium	**0.00011**	**mg/L**	**0.00025**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**	**J**	**0.000075**
Chromium	**0.00032**	**mg/L**	**0.00025**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00020**
Cobalt	**0.00059**	**mg/L**	**0.00052**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00010**
Lead	<0.00010	mg/L	0.00055	1	08/20/26	kra	08/21/26	cma		0.00010
Molybdenum	**0.0031**	**mg/L**	**0.0012**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00032**
Nickel	**0.0010**	**mg/L**	**0.0012**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**	**J**	**0.00015**
Selenium	<0.00010	mg/L	0.00050	1	08/20/26	kra	08/21/26	cma		0.00010
Thallium	<0.000075	mg/L	0.00038	1	08/20/26	kra	08/21/26	cma		0.000075
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T187265										
Fluoride	**1.4**	**mg/L**	**0.20**	**10**	**08/14/26**	**aeo**	**08/15/26**	**aeo**	**N**	**0.11**
Chloride	**34**	**mg/L**	**1.5**	**10**	**08/14/26**	**aeo**	**08/15/26**	**aeo**		**1.2**
Sulfate as SO4	**67**	**mg/L**	**6.0**	**10**	**08/14/26**	**aeo**	**08/15/26**	**aeo**		**0.58**

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-29 | Date Collected: 08/12/26 10:40 | Matrix: Ground Water
Sample ID: MW-32 | Date Received: 08/14/26 09:12

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: SM 2320 B-21										
Batch: T187535										
Bicarbonate Alkalinity as CaCO3 at pH 4.5	**470**	**mg/L**	**5.0**	**1**	**08/20/26**	**aeo**	**08/20/26**	**aeo**	**N**	**0.16**
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.16	mg/L	5.0	1	08/20/26	aeo	08/20/26	aeo	N	0.16
Total Alkalinity as CaCO3 at pH 4.5	**470**	**mg/L**	**5.0**	**1**	**08/20/26**	**aeo**	**08/20/26**	**aeo**		**0.16**
Analysis Method: SM 2540 C-20										
Batch: T187270										
Total Dissolved Solids	**690**	**mg/L**	**40**	**4**	**08/14/26**	**sw**	**08/14/26**	**sw**		
Analysis Method: SM 2540 D-20										
Batch: T187322										
Total Suspended Solids	**38**	**mg/L**	**4.0**	**0.3846154**	**08/17/26**	**sw**	**08/17/26**	**sw**		**1.5**
Analysis Method: SM 4500-H+ B-11 (Lab)										
Batch: T187331										
pH	**7.39**	**pH Units**		**1**	**08/12/26**	**hm**	**08/14/26**	**ln**	**H04, PH01aa**	

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-30 Date Collected: 08/12/26 12:00 Matrix: Ground Water
Sample ID: MW-08 Date Received: 08/14/26 09:12

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 1631E										
Batch: T187675										
Mercury	<	ng/L	0.50	1	08/24/26	cma	08/25/26	cma		
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T187536										
Boron	**6.3**	**mg/L**	**0.088**	**10**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.019**
Calcium	**140**	**mg/L**	**2.6**	**10**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.37**
Lithium	**0.087**	**mg/L**	**0.0025**	**1**	**08/20/26**	**kra**	**08/25/26**	**jma**	**N**	**0.00085**
Magnesium	**29**	**mg/L**	**0.10**	**1**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.010**
Potassium	**10**	**mg/L**	**0.25**	**1**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.036**
Sodium	**57**	**mg/L**	**0.12**	**1**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.030**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T187536										
Antimony	<0.00010	mg/L	0.00025	1	08/20/26	kra	08/21/26	cma		0.00010
Arsenic	**0.057**	**mg/L**	**0.00055**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00010**
Barium	**1.5**	**mg/L**	**0.012**	**5**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.0015**
Beryllium	<0.00010	mg/L	0.00025	1	08/20/26	kra	08/21/26	cma		0.00010
Cadmium	<0.000075	mg/L	0.00025	1	08/20/26	kra	08/21/26	cma		0.000075
Chromium	**0.00050**	**mg/L**	**0.00025**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00020**
Cobalt	**0.00033**	**mg/L**	**0.00052**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**	**J**	**0.00010**
Lead	**0.00026**	**mg/L**	**0.00055**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**	**J**	**0.00010**
Molybdenum	<0.00032	mg/L	0.0012	1	08/20/26	kra	08/21/26	cma		0.00032
Nickel	**0.0021**	**mg/L**	**0.0012**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00015**
Selenium	**0.00010**	**mg/L**	**0.00050**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**	**J**	**0.00010**
Thallium	<0.000075	mg/L	0.00038	1	08/20/26	kra	08/21/26	cma		0.000075
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T187265										
Fluoride	**1.3**	**mg/L**	**0.20**	**10**	**08/14/26**	**aeo**	**08/15/26**	**aeo**	**N**	**0.11**
Chloride	**160**	**mg/L**	**1.5**	**10**	**08/14/26**	**aeo**	**08/15/26**	**aeo**		**1.2**
Sulfate as SO4	**13**	**mg/L**	**6.0**	**10**	**08/14/26**	**aeo**	**08/15/26**	**aeo**		**0.58**

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-30 Date Collected: 08/12/26 12:00 Matrix: Ground Water
Sample ID: MW-08 Date Received: 08/14/26 09:12

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: SM 2320 B-21										
Batch: T187535										
Bicarbonate Alkalinity as CaCO3 at pH 4.5	**380**	**mg/L**	**5.0**	**1**	**08/20/26**	**aeo**	**08/20/26**	**aeo**	**N**	**0.16**
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.16	mg/L	5.0	1	08/20/26	aeo	08/20/26	aeo	N	0.16
Total Alkalinity as CaCO3 at pH 4.5	**380**	**mg/L**	**5.0**	**1**	**08/20/26**	**aeo**	**08/20/26**	**aeo**		**0.16**
Analysis Method: SM 2540 C-20										
Batch: T187270										
Total Dissolved Solids	**780**	**mg/L**	**40**	**4**	**08/14/26**	**sw**	**08/14/26**	**sw**		
Analysis Method: SM 2540 D-20										
Batch: T187322										
Total Suspended Solids	**17**	**mg/L**	**4.0**	**0.3875969**	**08/17/26**	**sw**	**08/17/26**	**sw**		**1.6**
Analysis Method: SM 4500-H+ B-11 (Lab)										
Batch: T187331										
pH	**7.34**	**pH Units**		**1**	**08/12/26**	**hm**	**08/14/26**	**ln**	**H04, PH01ab**	

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-31 Date Collected: 08/12/26 13:55 Matrix: Ground Water
Sample ID: MW-28 Date Received: 08/14/26 09:12

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 1631E										
Batch: T187675										
Mercury	**7.4**	**ng/L**	**0.50**	**1**	**08/24/26**	**cma**	**08/25/26**	**cma**		
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T187536										
Boron	**3.7**	**mg/L**	**0.088**	**10**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.019**
Calcium	**190**	**mg/L**	**2.6**	**10**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.37**
Lithium	**0.084**	**mg/L**	**0.0025**	**1**	**08/20/26**	**kra**	**08/25/26**	**jma**	**N**	**0.00085**
Magnesium	**30**	**mg/L**	**0.10**	**1**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.010**
Potassium	**12**	**mg/L**	**0.25**	**1**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.036**
Sodium	**62**	**mg/L**	**0.12**	**1**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.030**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T187536										
Antimony	**0.00056**	**mg/L**	**0.00025**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00010**
Arsenic	**0.0072**	**mg/L**	**0.00055**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00010**
Barium	**0.64**	**mg/L**	**0.0025**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00030**
Beryllium	<0.00010	mg/L	0.00025	1	08/20/26	kra	08/21/26	cma		0.00010
Cadmium	**0.00070**	**mg/L**	**0.00025**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.000075**
Chromium	**0.015**	**mg/L**	**0.00025**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00020**
Cobalt	**0.0024**	**mg/L**	**0.00052**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00010**
Lead	**0.025**	**mg/L**	**0.00055**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00010**
Molybdenum	**0.0049**	**mg/L**	**0.0012**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00032**
Nickel	**0.0041**	**mg/L**	**0.0012**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00015**
Selenium	**0.00043**	**mg/L**	**0.00050**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**	**J**	**0.00010**
Thallium	<0.000075	mg/L	0.00038	1	08/20/26	kra	08/21/26	cma		0.000075
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T187265										
Fluoride	**1.3**	**mg/L**	**0.20**	**10**	**08/14/26**	**aeo**	**08/15/26**	**aeo**	**N**	**0.11**
Chloride	**99**	**mg/L**	**1.5**	**10**	**08/14/26**	**aeo**	**08/15/26**	**aeo**		**1.2**
Sulfate as SO4	**0.58**	**mg/L**	**6.0**	**10**	**08/14/26**	**aeo**	**08/15/26**	**aeo**	**J**	**0.58**

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-31 Date Collected: 08/12/26 13:55 Matrix: Ground Water
Sample ID: MW-28 Date Received: 08/14/26 09:12

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: SM 2320 B-21										
Batch: T187535										
Bicarbonate Alkalinity as CaCO3 at pH 4.5	**590**	**mg/L**	**5.0**	**1**	**08/20/26**	**aeo**	**08/20/26**	**aeo**	**N**	**0.16**
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.16	mg/L	5.0	1	08/20/26	aeo	08/20/26	aeo	N	0.16
Total Alkalinity as CaCO3 at pH 4.5	**590**	**mg/L**	**5.0**	**1**	**08/20/26**	**aeo**	**08/20/26**	**aeo**		**0.16**
Analysis Method: SM 2540 C-20										
Batch: T187270										
Total Dissolved Solids	**780**	**mg/L**	**40**	**4**	**08/14/26**	**sw**	**08/14/26**	**sw**		
Analysis Method: SM 2540 D-20										
Batch: T187322										
Total Suspended Solids	**110**	**mg/L**	**4.0**	**0.3875969**	**08/17/26**	**sw**	**08/17/26**	**sw**		**1.6**
Analysis Method: SM 4500-H+ B-11 (Lab)										
Batch: T187331										
pH	**7.11**	**pH Units**		**1**	**08/12/26**	**hm**	**08/14/26**	**ln**	**H04, PH01ac**	

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-32 Date Collected: 08/12/26 15:10 Matrix: Ground Water
Sample ID: MW-27 Date Received: 08/14/26 09:12

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 1631E										
Batch: T187675										
Mercury	<	ng/L	0.50	1	08/24/26	cma	08/25/26	cma		
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T187536										
Boron	**0.50**	**mg/L**	**0.0088**	**1**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.0019**
Calcium	**140**	**mg/L**	**2.6**	**10**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.37**
Lithium	**0.0078**	**mg/L**	**0.0025**	**1**	**08/20/26**	**kra**	**08/25/26**	**jma**	**N**	**0.00085**
Magnesium	**40**	**mg/L**	**0.10**	**1**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.010**
Potassium	**8.0**	**mg/L**	**0.25**	**1**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.036**
Sodium	**89**	**mg/L**	**1.2**	**10**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.30**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T187536										
Antimony	<0.00010	mg/L	0.00025	1	08/20/26	kra	08/21/26	cma		0.00010
Arsenic	**0.00082**	**mg/L**	**0.00055**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00010**
Barium	**0.20**	**mg/L**	**0.0025**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00030**
Beryllium	<0.00010	mg/L	0.00025	1	08/20/26	kra	08/21/26	cma		0.00010
Cadmium	<0.000075	mg/L	0.00025	1	08/20/26	kra	08/21/26	cma		0.000075
Chromium	**0.029**	**mg/L**	**0.00025**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00020**
Cobalt	**0.00056**	**mg/L**	**0.00052**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00010**
Lead	**0.00011**	**mg/L**	**0.00055**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**	**J**	**0.00010**
Molybdenum	<0.00032	mg/L	0.0012	1	08/20/26	kra	08/21/26	cma		0.00032
Nickel	**0.00052**	**mg/L**	**0.0012**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**	**J**	**0.00015**
Selenium	**0.00021**	**mg/L**	**0.00050**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**	**J**	**0.00010**
Thallium	<0.000075	mg/L	0.00038	1	08/20/26	kra	08/21/26	cma		0.000075
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T187265										
Fluoride	**0.77**	**mg/L**	**0.20**	**10**	**08/14/26**	**aeo**	**08/15/26**	**aeo**	**N**	**0.11**
Chloride	**140**	**mg/L**	**1.5**	**10**	**08/14/26**	**aeo**	**08/15/26**	**aeo**		**1.2**
Sulfate as SO4	**1.2**	**mg/L**	**6.0**	**10**	**08/14/26**	**aeo**	**08/15/26**	**aeo**	**J**	**0.58**

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-32 | Date Collected: 08/12/26 15:10 | Matrix: Ground Water
Sample ID: MW-27 | Date Received: 08/14/26 09:12

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: SM 2320 B-21										
Batch: T187535										
Bicarbonate Alkalinity as CaCO3 at pH 4.5	**1100**	**mg/L**	**5.0**	**1**	**08/20/26**	**aeo**	**08/20/26**	**aeo**	**N**	**0.16**
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.16	mg/L	5.0	1	08/20/26	aeo	08/20/26	aeo	N	0.16
Total Alkalinity as CaCO3 at pH 4.5	**1100**	**mg/L**	**5.0**	**1**	**08/20/26**	**aeo**	**08/20/26**	**aeo**		**0.16**
Analysis Method: SM 2540 C-20										
Batch: T187270										
Total Dissolved Solids	**820**	**mg/L**	**40**	**4**	**08/14/26**	**sw**	**08/14/26**	**sw**		
Analysis Method: SM 2540 D-20										
Batch: T187322										
Total Suspended Solids	**6.4**	**mg/L**	**4.0**	**0.4**	**08/17/26**	**sw**	**08/17/26**	**sw**		**1.6**
Analysis Method: SM 4500-H+ B-11 (Lab)										
Batch: T187331										
pH	**6.94**	**pH Units**		**1**	**08/12/26**	**hm**	**08/14/26**	**ln**	**H04, PH01ad**	

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-33 Date Collected: 08/12/26 16:30 Matrix: Ground Water
Sample ID: MW-12 Date Received: 08/14/26 09:12

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 1631E										
Batch: T187675										
Mercury	**1.6**	**ng/L**	**0.50**	**1**	**08/24/26**	**cma**	**08/25/26**	**cma**		
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T187536										
Boron	**0.26**	**mg/L**	**0.0088**	**1**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.0019**
Calcium	**50**	**mg/L**	**0.26**	**1**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.037**
Lithium	**0.0036**	**mg/L**	**0.0025**	**1**	**08/20/26**	**kra**	**08/25/26**	**jma**	**N**	**0.00085**
Magnesium	**12**	**mg/L**	**0.10**	**1**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.010**
Potassium	**1.5**	**mg/L**	**0.25**	**1**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.036**
Sodium	**8.6**	**mg/L**	**0.12**	**1**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.030**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T187536										
Antimony	**0.00016**	**mg/L**	**0.00025**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**	**J**	**0.00010**
Arsenic	**0.0059**	**mg/L**	**0.00055**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00010**
Barium	**0.13**	**mg/L**	**0.0025**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00030**
Beryllium	<0.00010	mg/L	0.00025	1	08/20/26	kra	08/21/26	cma		0.00010
Cadmium	**0.0019**	**mg/L**	**0.00025**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.000075**
Chromium	**0.00022**	**mg/L**	**0.00025**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**	**J**	**0.00020**
Cobalt	**0.00092**	**mg/L**	**0.00052**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00010**
Lead	**0.00027**	**mg/L**	**0.00055**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**	**J**	**0.00010**
Molybdenum	**0.0071**	**mg/L**	**0.0012**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00032**
Nickel	**0.0019**	**mg/L**	**0.0012**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00015**
Selenium	**0.00015**	**mg/L**	**0.00050**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**	**J**	**0.00010**
Thallium	<0.000075	mg/L	0.00038	1	08/20/26	kra	08/21/26	cma		0.000075
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T187265										
Fluoride	**0.29**	**mg/L**	**0.20**	**10**	**08/14/26**	**aeo**	**08/15/26**	**aeo**	**N**	**0.11**
Chloride	**11**	**mg/L**	**1.5**	**10**	**08/14/26**	**aeo**	**08/15/26**	**aeo**		**1.2**
Sulfate as SO4	**9.2**	**mg/L**	**6.0**	**10**	**08/14/26**	**aeo**	**08/15/26**	**aeo**		**0.58**

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-33 Date Collected: 08/12/26 16:30 Matrix: Ground Water
Sample ID: MW-12 Date Received: 08/14/26 09:12

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: SM 2320 B-21										
Batch: T187535										
Bicarbonate Alkalinity as CaCO3 at pH 4.5	**170**	**mg/L**	**5.0**	**1**	**08/20/26**	**aeo**	**08/20/26**	**aeo**	**N**	**0.16**
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.16	mg/L	5.0	1	08/20/26	aeo	08/20/26	aeo	N	0.16
Total Alkalinity as CaCO3 at pH 4.5	**170**	**mg/L**	**5.0**	**1**	**08/20/26**	**aeo**	**08/20/26**	**aeo**		**0.16**
Analysis Method: SM 2540 C-20										
Batch: T187270										
Total Dissolved Solids	**220**	**mg/L**	**40**	**4**	**08/14/26**	**sw**	**08/14/26**	**sw**		
Analysis Method: SM 2540 D-20										
Batch: T187322										
Total Suspended Solids	<1.5	mg/L	4.0	0.3846154	08/17/26	sw	08/17/26	sw		1.5
Analysis Method: SM 4500-H+ B-11 (Lab)										
Batch: T187331										
pH	**8.32**	**pH Units**		**1**	**08/12/26**	**hm**	**08/14/26**	**ln**	**H04, PH01ae**	

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-34 Date Collected: 08/12/26 16:40 Matrix: Aqueous
Sample ID: LLHGTB-08122026 Date Received: 08/14/26 09:12

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 1631E										
Batch: T187675										
Mercury	<	ng/L	0.20	1	08/24/26	cma	08/25/26	cma		

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-35 Date Collected: 08/13/26 08:52 Matrix: Ground Water
Sample ID: MW-33 Date Received: 08/14/26 09:12

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 1631E										
Batch: T187675										
Mercury	**1.1**	**ng/L**	**0.50**	**1**	**08/24/26**	**cma**	**08/25/26**	**cma**		
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T187536										
Boron	**0.079**	**mg/L**	**0.0088**	**1**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.0019**
Calcium	**200**	**mg/L**	**2.6**	**10**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.37**
Lithium	**0.0055**	**mg/L**	**0.0025**	**1**	**08/20/26**	**kra**	**08/25/26**	**jma**	**N**	**0.00085**
Magnesium	**22**	**mg/L**	**0.10**	**1**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.010**
Potassium	**5.8**	**mg/L**	**0.25**	**1**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.036**
Sodium	**18**	**mg/L**	**0.12**	**1**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.030**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T187536										
Antimony	**0.00030**	**mg/L**	**0.00025**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00010**
Arsenic	**0.011**	**mg/L**	**0.00055**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00010**
Barium	**0.16**	**mg/L**	**0.0025**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00030**
Beryllium	<0.00010	mg/L	0.00025	1	08/20/26	kra	08/21/26	cma		0.00010
Cadmium	<0.000075	mg/L	0.00025	1	08/20/26	kra	08/21/26	cma		0.000075
Chromium	**0.010**	**mg/L**	**0.00025**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00020**
Cobalt	**0.00097**	**mg/L**	**0.00052**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00010**
Lead	**0.00032**	**mg/L**	**0.00055**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**	**J**	**0.00010**
Molybdenum	**0.0031**	**mg/L**	**0.0012**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00032**
Nickel	**0.016**	**mg/L**	**0.0012**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00015**
Selenium	**0.00052**	**mg/L**	**0.00050**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00010**
Thallium	<0.000075	mg/L	0.00038	1	08/20/26	kra	08/21/26	cma		0.000075
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T187265										
Fluoride	**0.55**	**mg/L**	**0.20**	**10**	**08/14/26**	**aeo**	**08/15/26**	**aeo**	**N**	**0.11**
Chloride	**33**	**mg/L**	**1.5**	**10**	**08/14/26**	**aeo**	**08/15/26**	**aeo**		**1.2**
Sulfate as SO4	**8.0**	**mg/L**	**6.0**	**10**	**08/14/26**	**aeo**	**08/15/26**	**aeo**		**0.58**

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-35 Date Collected: 08/13/26 08:52 Matrix: Ground Water
Sample ID: MW-33 Date Received: 08/14/26 09:12

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: SM 2320 B-21										
Batch: T187535										
Bicarbonate Alkalinity as CaCO3 at pH 4.5	**570**	**mg/L**	**5.0**	**1**	**08/20/26**	**aeo**	**08/20/26**	**aeo**	**N**	**0.16**
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.16	mg/L	5.0	1	08/20/26	aeo	08/20/26	aeo	N	0.16
Total Alkalinity as CaCO3 at pH 4.5	**570**	**mg/L**	**5.0**	**1**	**08/20/26**	**aeo**	**08/20/26**	**aeo**		**0.16**
Analysis Method: SM 2540 C-20										
Batch: T187270										
Total Dissolved Solids	**750**	**mg/L**	**40**	**4**	**08/14/26**	**sw**	**08/14/26**	**sw**		
Analysis Method: SM 2540 D-20										
Batch: T187322										
Total Suspended Solids	**55**	**mg/L**	**4.0**	**0.3875969**	**08/17/26**	**sw**	**08/17/26**	**sw**		**1.6**
Analysis Method: SM 4500-H+ B-11 (Lab)										
Batch: T187331										
pH	**6.82**	**pH Units**		**1**	**08/13/26**	**hm**	**08/14/26**	**ln**	**H04, PH01af**	

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-36 Date Collected: 08/13/26 10:34 Matrix: Ground Water
Sample ID: MW-03 Date Received: 08/14/26 09:12

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 1631E										
Batch: T187675										
Mercury	<	ng/L	0.50	1	08/24/26	cma	08/25/26	cma		
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T187536										
Boron	**3.5**	**mg/L**	**0.088**	**10**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.019**
Calcium	**320**	**mg/L**	**2.6**	**10**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.37**
Lithium	**0.029**	**mg/L**	**0.0025**	**1**	**08/20/26**	**kra**	**08/25/26**	**jma**	**N**	**0.00085**
Magnesium	**160**	**mg/L**	**0.50**	**10**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.10**
Potassium	**16**	**mg/L**	**0.25**	**1**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.036**
Sodium	**78**	**mg/L**	**0.12**	**1**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.030**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T187536										
Antimony	<0.00010	mg/L	0.00025	1	08/20/26	kra	08/21/26	cma		0.00010
Arsenic	**0.00055**	**mg/L**	**0.00055**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00010**
Barium	**0.30**	**mg/L**	**0.0025**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00030**
Beryllium	<0.00010	mg/L	0.00025	1	08/20/26	kra	08/21/26	cma		0.00010
Cadmium	<0.000075	mg/L	0.00025	1	08/20/26	kra	08/21/26	cma		0.000075
Chromium	**0.0028**	**mg/L**	**0.00025**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00020**
Cobalt	**0.00048**	**mg/L**	**0.00052**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**	**J**	**0.00010**
Lead	<0.00010	mg/L	0.00055	1	08/20/26	kra	08/21/26	cma		0.00010
Molybdenum	<0.00032	mg/L	0.0012	1	08/20/26	kra	08/21/26	cma		0.00032
Nickel	**0.0011**	**mg/L**	**0.0012**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**	**J**	**0.00015**
Selenium	**0.00033**	**mg/L**	**0.00050**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**	**J**	**0.00010**
Thallium	<0.000075	mg/L	0.00038	1	08/20/26	kra	08/21/26	cma		0.000075
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T187265										
Fluoride	**0.84**	**mg/L**	**0.20**	**10**	**08/14/26**	**aeo**	**08/15/26**	**aeo**	**N**	**0.11**
Chloride	**96**	**mg/L**	**1.5**	**10**	**08/14/26**	**aeo**	**08/15/26**	**aeo**		**1.2**
Sulfate as SO4	**68**	**mg/L**	**6.0**	**10**	**08/14/26**	**aeo**	**08/15/26**	**aeo**		**0.58**

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-36 | Date Collected: 08/13/26 10:34 | Matrix: Ground Water
Sample ID: MW-03 | Date Received: 08/14/26 09:12

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: SM 2320 B-21										
Batch: T187535										
Bicarbonate Alkalinity as CaCO3 at pH 4.5	**1500**	**mg/L**	**5.0**	**1**	**08/20/26**	**aeo**	**08/20/26**	**aeo**	**N**	**0.16**
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.16	mg/L	5.0	1	08/20/26	aeo	08/20/26	aeo	N	0.16
Total Alkalinity as CaCO3 at pH 4.5	**1500**	**mg/L**	**5.0**	**1**	**08/20/26**	**aeo**	**08/20/26**	**aeo**		**0.16**
Analysis Method: SM 2540 C-20										
Batch: T187270										
Total Dissolved Solids	**1700**	**mg/L**	**40**	**4**	**08/14/26**	**sw**	**08/14/26**	**sw**		
Analysis Method: SM 2540 D-20										
Batch: T187322										
Total Suspended Solids	<1.6	mg/L	4.0	0.3952569	08/17/26	sw	08/17/26	sw		1.6
Analysis Method: SM 4500-H+ B-11 (Lab)										
Batch: T187331										
pH	**7.31**	**pH Units**		**1**	**08/13/26**	**hm**	**08/14/26**	**ln**	**H02, PH01ag**	

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-37 Date Collected: 08/13/26 12:00 Matrix: Ground Water
Sample ID: MW-04R Date Received: 08/14/26 09:12

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 1631E										
Batch: T187675										
Mercury	<	ng/L	0.50	1	08/24/26	cma	08/25/26	cma		
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T187536										
Boron	**3.0**	**mg/L**	**0.088**	**10**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.019**
Calcium	**300**	**mg/L**	**2.6**	**10**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.37**
Lithium	**0.033**	**mg/L**	**0.0025**	**1**	**08/20/26**	**kra**	**08/25/26**	**jma**	**N**	**0.00085**
Magnesium	**64**	**mg/L**	**0.10**	**1**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.010**
Potassium	**13**	**mg/L**	**0.25**	**1**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.036**
Sodium	**61**	**mg/L**	**0.12**	**1**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.030**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T187536										
Antimony	<0.00010	mg/L	0.00025	1	08/20/26	kra	08/21/26	cma		0.00010
Arsenic	**0.0016**	**mg/L**	**0.00055**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00010**
Barium	**0.19**	**mg/L**	**0.0025**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00030**
Beryllium	<0.00010	mg/L	0.00025	1	08/20/26	kra	08/21/26	cma		0.00010
Cadmium	<0.000075	mg/L	0.00025	1	08/20/26	kra	08/21/26	cma		0.000075
Chromium	**0.0012**	**mg/L**	**0.00025**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00020**
Cobalt	**0.00067**	**mg/L**	**0.00052**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00010**
Lead	<0.00010	mg/L	0.00055	1	08/20/26	kra	08/21/26	cma		0.00010
Molybdenum	**0.00043**	**mg/L**	**0.0012**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**	**J**	**0.00032**
Nickel	**0.0021**	**mg/L**	**0.0012**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00015**
Selenium	**0.00016**	**mg/L**	**0.00050**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**	**J**	**0.00010**
Thallium	<0.000075	mg/L	0.00038	1	08/20/26	kra	08/21/26	cma		0.000075
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T187265										
Fluoride	**1.3**	**mg/L**	**0.20**	**10**	**08/14/26**	**aeo**	**08/15/26**	**aeo**	**N**	**0.11**
Chloride	**100**	**mg/L**	**1.5**	**10**	**08/14/26**	**aeo**	**08/15/26**	**aeo**		**1.2**
Sulfate as SO4	**61**	**mg/L**	**6.0**	**10**	**08/14/26**	**aeo**	**08/15/26**	**aeo**		**0.58**

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-37 | Date Collected: 08/13/26 12:00 | Matrix: Ground Water
Sample ID: MW-04R | Date Received: 08/14/26 09:12

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: SM 2320 B-21										
Batch: T187535										
Bicarbonate Alkalinity as CaCO3 at pH 4.5	**1000**	**mg/L**	**5.0**	**1**	**08/20/26**	**aeo**	**08/20/26**	**aeo**	**N**	**0.16**
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.16	mg/L	5.0	1	08/20/26	aeo	08/20/26	aeo	N	0.16
Total Alkalinity as CaCO3 at pH 4.5	**1000**	**mg/L**	**5.0**	**1**	**08/20/26**	**aeo**	**08/20/26**	**aeo**		**0.16**
Analysis Method: SM 2540 C-20										
Batch: T187270										
Total Dissolved Solids	**1300**	**mg/L**	**40**	**4**	**08/14/26**	**sw**	**08/14/26**	**sw**		
Analysis Method: SM 2540 D-20										
Batch: T187322										
Total Suspended Solids	**11**	**mg/L**	**4.0**	**0.4**	**08/17/26**	**sw**	**08/17/26**	**sw**		**1.6**
Analysis Method: SM 4500-H+ B-11 (Lab)										
Batch: T187331										
pH	**7.39**	**pH Units**		**1**	**08/13/26**	**hm**	**08/14/26**	**ln**	**H02, PH01ah**	

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-38 | Date Collected: 08/13/26 10:15 | Matrix: Ground Water
Sample ID: MW-31 | Date Received: 08/14/26 09:12

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 1631E										
Batch: T187675										
Mercury	**2.0**	**ng/L**	**0.50**	**1**	**08/24/26**	**cma**	**08/25/26**	**cma**		
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T187536										
Boron	**8.2**	**mg/L**	**0.088**	**10**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.019**
Calcium	**160**	**mg/L**	**2.6**	**10**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.37**
Lithium	**0.095**	**mg/L**	**0.0025**	**1**	**08/20/26**	**kra**	**08/25/26**	**jma**	**N**	**0.00085**
Magnesium	**49**	**mg/L**	**0.10**	**1**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.010**
Potassium	**15**	**mg/L**	**0.25**	**1**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.036**
Sodium	**76**	**mg/L**	**0.12**	**1**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.030**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T187536										
Antimony	**0.0011**	**mg/L**	**0.00025**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00010**
Arsenic	**0.0091**	**mg/L**	**0.00055**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00010**
Barium	**0.26**	**mg/L**	**0.0025**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00030**
Beryllium	<0.00010	mg/L	0.00025	1	08/20/26	kra	08/21/26	cma		0.00010
Cadmium	<0.000075	mg/L	0.00025	1	08/20/26	kra	08/21/26	cma		0.000075
Chromium	**0.0053**	**mg/L**	**0.00025**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00020**
Cobalt	**0.00026**	**mg/L**	**0.00052**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**	**J**	**0.00010**
Lead	**0.00027**	**mg/L**	**0.00055**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**	**J**	**0.00010**
Molybdenum	**0.0084**	**mg/L**	**0.0012**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00032**
Nickel	**0.17**	**mg/L**	**0.0012**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00015**
Selenium	**0.0010**	**mg/L**	**0.00050**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00010**
Thallium	<0.000075	mg/L	0.00038	1	08/20/26	kra	08/21/26	cma		0.000075
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T187265										
Fluoride	**3.7**	**mg/L**	**0.20**	**10**	**08/14/26**	**aeo**	**08/15/26**	**aeo**	**N**	**0.11**
Chloride	**120**	**mg/L**	**1.5**	**10**	**08/14/26**	**aeo**	**08/15/26**	**aeo**		**1.2**
Sulfate as SO4	**120**	**mg/L**	**6.0**	**10**	**08/14/26**	**aeo**	**08/15/26**	**aeo**		**0.58**

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-38 | Date Collected: 08/13/26 10:15 | Matrix: Ground Water
Sample ID: MW-31 | Date Received: 08/14/26 09:12

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: SM 2320 B-21										
Batch: T187535										
Bicarbonate Alkalinity as CaCO3 at pH 4.5	**450**	**mg/L**	**5.0**	**1**	**08/20/26**	**aeo**	**08/20/26**	**aeo**	**N**	**0.16**
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.16	mg/L	5.0	1	08/20/26	aeo	08/20/26	aeo	N	0.16
Total Alkalinity as CaCO3 at pH 4.5	**450**	**mg/L**	**5.0**	**1**	**08/20/26**	**aeo**	**08/20/26**	**aeo**		**0.16**
Analysis Method: SM 2540 C-20										
Batch: T187270										
Total Dissolved Solids	**870**	**mg/L**	**40**	**4**	**08/14/26**	**sw**	**08/14/26**	**sw**		
Analysis Method: SM 2540 D-20										
Batch: T187322										
Total Suspended Solids	<1.6	mg/L	4.0	0.3875969	08/17/26	sw	08/17/26	sw		1.6
Analysis Method: SM 4500-H+ B-11 (Lab)										
Batch: T187331										
pH	**7.91**	**pH Units**		**1**	**08/13/26**	**hm**	**08/14/26**	**ln**	**H02, PH01ai**	

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-39 Date Collected: 08/13/26 10:10 Matrix: Ground Water
Sample ID: MW-04 Date Received: 08/14/26 09:12

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 1631E										
Batch: T187675										
Mercury	<	ng/L	0.50	1	08/24/26	cma	08/25/26	cma		
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T187536										
Boron	**2.5**	**mg/L**	**0.088**	**10**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.019**
Calcium	**340**	**mg/L**	**2.6**	**10**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.37**
Lithium	**0.047**	**mg/L**	**0.0025**	**1**	**08/20/26**	**kra**	**08/25/26**	**jma**	**N**	**0.00085**
Magnesium	**78**	**mg/L**	**0.10**	**1**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.010**
Potassium	**14**	**mg/L**	**0.25**	**1**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.036**
Sodium	**40**	**mg/L**	**0.12**	**1**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.030**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T187536										
Antimony	<0.00010	mg/L	0.00025	1	08/20/26	kra	08/21/26	cma		0.00010
Arsenic	**0.00096**	**mg/L**	**0.00055**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00010**
Barium	**0.11**	**mg/L**	**0.0025**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00030**
Beryllium	<0.00010	mg/L	0.00025	1	08/20/26	kra	08/21/26	cma		0.00010
Cadmium	<0.000075	mg/L	0.00025	1	08/20/26	kra	08/21/26	cma		0.000075
Chromium	**0.0019**	**mg/L**	**0.00025**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00020**
Cobalt	**0.00022**	**mg/L**	**0.00052**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**	**J**	**0.00010**
Lead	<0.00010	mg/L	0.00055	1	08/20/26	kra	08/21/26	cma		0.00010
Molybdenum	**0.00083**	**mg/L**	**0.0012**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**	**J**	**0.00032**
Nickel	**0.0042**	**mg/L**	**0.0012**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00015**
Selenium	**0.00015**	**mg/L**	**0.00050**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**	**J**	**0.00010**
Thallium	<0.000075	mg/L	0.00038	1	08/20/26	kra	08/21/26	cma		0.000075
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T187265										
Fluoride	**1.6**	**mg/L**	**0.20**	**10**	**08/14/26**	**aeo**	**08/15/26**	**aeo**	**N**	**0.11**
Chloride	**37**	**mg/L**	**1.5**	**10**	**08/14/26**	**aeo**	**08/15/26**	**aeo**		**1.2**
Sulfate as SO4	**460**	**mg/L**	**60**	**100**	**08/14/26**	**aeo**	**08/15/26**	**aeo**		**5.8**

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-39 | Date Collected: 08/13/26 10:10 | Matrix: Ground Water
Sample ID: MW-04 | Date Received: 08/14/26 09:12

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: SM 2320 B-21										
Batch: T187535										
Bicarbonate Alkalinity as CaCO3 at pH 4.5	**730**	**mg/L**	**5.0**	**1**	**08/20/26**	**aeo**	**08/20/26**	**aeo**	**N**	**0.16**
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.16	mg/L	5.0	1	08/20/26	aeo	08/20/26	aeo	N	0.16
Total Alkalinity as CaCO3 at pH 4.5	**730**	**mg/L**	**5.0**	**1**	**08/20/26**	**aeo**	**08/20/26**	**aeo**		**0.16**
Analysis Method: SM 2540 C-20										
Batch: T187270										
Total Dissolved Solids	**1500**	**mg/L**	**40**	**4**	**08/14/26**	**sw**	**08/14/26**	**sw**		
Analysis Method: SM 2540 D-20										
Batch: T187322										
Total Suspended Solids	**11**	**mg/L**	**4.0**	**0.3875969**	**08/17/26**	**sw**	**08/17/26**	**sw**		**1.6**
Analysis Method: SM 4500-H+ B-11 (Lab)										
Batch: T187331										
pH	**7.32**	**pH Units**		**1**	**08/13/26**	**hm**	**08/14/26**	**ln**	**H02, PH01aj**	

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-40 Date Collected: 08/13/26 13:30 Matrix: Surface Water
Sample ID: SG-02 Date Received: 08/14/26 09:12

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 1631E										
Batch: T187675										
Mercury	**3.8**	**ng/L**	**0.50**	**1**	**08/24/26**	**cma**	**08/25/26**	**cma**		
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T187536										
Boron	**5.5**	**mg/L**	**0.088**	**10**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.019**
Calcium	**140**	**mg/L**	**2.6**	**10**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.37**
Lithium	**0.079**	**mg/L**	**0.0025**	**1**	**08/20/26**	**kra**	**08/25/26**	**jma**	**N**	**0.00085**
Magnesium	**59**	**mg/L**	**0.10**	**1**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.010**
Potassium	**3.9**	**mg/L**	**0.25**	**1**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.036**
Sodium	**50**	**mg/L**	**0.12**	**1**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.030**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T187536										
Antimony	**0.00044**	**mg/L**	**0.00025**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00010**
Arsenic	**0.0015**	**mg/L**	**0.00055**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00010**
Barium	**0.053**	**mg/L**	**0.0025**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00030**
Beryllium	<0.00010	mg/L	0.00025	1	08/20/26	kra	08/21/26	cma		0.00010
Cadmium	**0.00039**	**mg/L**	**0.00025**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.000075**
Chromium	**0.0011**	**mg/L**	**0.00025**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00020**
Cobalt	**0.00026**	**mg/L**	**0.00052**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**	**J**	**0.00010**
Lead	**0.0048**	**mg/L**	**0.00055**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00010**
Molybdenum	**0.0034**	**mg/L**	**0.0012**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00032**
Nickel	**0.0025**	**mg/L**	**0.0012**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00015**
Selenium	**0.00082**	**mg/L**	**0.00050**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00010**
Thallium	<0.000075	mg/L	0.00038	1	08/20/26	kra	08/21/26	cma		0.000075
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T187265										
Fluoride	**2.6**	**mg/L**	**0.20**	**10**	**08/14/26**	**aeo**	**08/15/26**	**aeo**	**N**	**0.11**
Chloride	**88**	**mg/L**	**1.5**	**10**	**08/14/26**	**aeo**	**08/15/26**	**aeo**		**1.2**
Sulfate as SO4	**510**	**mg/L**	**60**	**100**	**08/14/26**	**aeo**	**08/15/26**	**aeo**		**5.8**

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-40 | Date Collected: 08/13/26 13:30 | Matrix: Surface Water
Sample ID: SG-02 | Date Received: 08/14/26 09:12

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: SM 2320 B-21										
Batch: T187535										
Bicarbonate Alkalinity as CaCO3 at pH 4.5	**82**	**mg/L**	**5.0**	**1**	**08/20/26**	**aeo**	**08/20/26**	**aeo**	**N**	**0.16**
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.16	mg/L	5.0	1	08/20/26	aeo	08/20/26	aeo	N	0.16
Total Alkalinity as CaCO3 at pH 4.5	**82**	**mg/L**	**5.0**	**1**	**08/20/26**	**aeo**	**08/20/26**	**aeo**		**0.16**
Analysis Method: SM 2540 C-20										
Batch: T187270										
Total Dissolved Solids	**1000**	**mg/L**	**40**	**4**	**08/14/26**	**sw**	**08/14/26**	**sw**		
Analysis Method: SM 2540 D-20										
Batch: T187322										
Total Suspended Solids	**20**	**mg/L**	**4.0**	**0.3921569**	**08/17/26**	**sw**	**08/17/26**	**sw**		**1.6**
Analysis Method: SM 4500-H+ B-11 (Lab)										
Batch: T187331										
pH	**8.35**	**pH Units**		**1**	**08/13/26**	**hm**	**08/14/26**	**ln**	**H02, PH01ak**	

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-41 Date Collected: 08/13/26 14:00 Matrix: Surface Water
Sample ID: SG-07 Date Received: 08/14/26 09:12

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 1631E										
Batch: T187678										
Mercury	**1.4**	**ng/L**	**0.50**	**1**	**08/25/26**	**cma**	**08/27/26**	**cma**		
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T187536										
Boron	**0.055**	**mg/L**	**0.0088**	**1**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.0019**
Calcium	**51**	**mg/L**	**0.26**	**1**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.037**
Lithium	**0.0044**	**mg/L**	**0.0025**	**1**	**08/20/26**	**kra**	**08/25/26**	**jma**	**N**	**0.00085**
Magnesium	**19**	**mg/L**	**0.10**	**1**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.010**
Potassium	**3.1**	**mg/L**	**0.25**	**1**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.036**
Sodium	**35**	**mg/L**	**0.12**	**1**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.030**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T187536										
Antimony	**0.00019**	**mg/L**	**0.00025**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**	**J**	**0.00010**
Arsenic	**0.0015**	**mg/L**	**0.00055**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00010**
Barium	**0.045**	**mg/L**	**0.0025**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00030**
Beryllium	<0.00010	mg/L	0.00025	1	08/20/26	kra	08/21/26	cma		0.00010
Cadmium	<0.000075	mg/L	0.00025	1	08/20/26	kra	08/21/26	cma		0.000075
Chromium	**0.00044**	**mg/L**	**0.00025**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00020**
Cobalt	**0.00013**	**mg/L**	**0.00052**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**	**J**	**0.00010**
Lead	**0.00055**	**mg/L**	**0.00055**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00010**
Molybdenum	**0.0012**	**mg/L**	**0.0012**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00032**
Nickel	**0.0011**	**mg/L**	**0.0012**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**	**J**	**0.00015**
Selenium	**0.00016**	**mg/L**	**0.00050**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**	**J**	**0.00010**
Thallium	<0.000075	mg/L	0.00038	1	08/20/26	kra	08/21/26	cma		0.000075
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T187265										
Fluoride	**0.16**	**mg/L**	**0.20**	**10**	**08/14/26**	**aeo**	**08/15/26**	**aeo**	**J, N**	**0.11**
Chloride	**59**	**mg/L**	**1.5**	**10**	**08/14/26**	**aeo**	**08/15/26**	**aeo**		**1.2**
Sulfate as SO4	**37**	**mg/L**	**6.0**	**10**	**08/14/26**	**aeo**	**08/15/26**	**aeo**		**0.58**

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-41 | Date Collected: 08/13/26 14:00 | Matrix: Surface Water
Sample ID: SG-07 | Date Received: 08/14/26 09:12

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: SM 2320 B-21										
Batch: T187535										
Bicarbonate Alkalinity as CaCO3 at pH 4.5	**150**	**mg/L**	**5.0**	**1**	**08/20/26**	**aeo**	**08/20/26**	**aeo**	**N**	**0.16**
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.16	mg/L	5.0	1	08/20/26	aeo	08/20/26	aeo	N	0.16
Total Alkalinity as CaCO3 at pH 4.5	**150**	**mg/L**	**5.0**	**1**	**08/20/26**	**aeo**	**08/20/26**	**aeo**		**0.16**
Analysis Method: SM 2540 C-20										
Batch: T187270										
Total Dissolved Solids	**320**	**mg/L**	**40**	**4**	**08/14/26**	**sw**	**08/14/26**	**sw**		
Analysis Method: SM 2540 D-20										
Batch: T187322										
Total Suspended Solids	**11**	**mg/L**	**4.0**	**0.3846154**	**08/17/26**	**sw**	**08/17/26**	**sw**		**1.5**
Analysis Method: SM 4500-H+ B-11 (Lab)										
Batch: T187331										
pH	**8.09**	**pH Units**		**1**	**08/13/26**	**hm**	**08/14/26**	**ln**	**H02, PH01al**	

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-42 Date Collected: 08/13/26 14:30 Matrix: Aqueous
Sample ID: LLHGTB-08132026 Date Received: 08/14/26 09:12

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 1631E										
Batch: T187678										
Mercury	<	ng/L	0.20	1	08/25/26	cma	08/27/26	cma		

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QUALITY CONTROL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T187671
QC Batch Method: EPA 1631E
Analysis Description: Mercury, Total, Low Level
Analysis Method: EPA 1631E

METHOD BLANK: T187671-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Mercury	ng/L	<0.50	0.50	

METHOD BLANK: T187671-BLK2

Parameter	Units	Blank Result	Reporting Limit	Notes
Mercury	ng/L	<0.50	0.50	

METHOD BLANK: T187671-BLK3

Parameter	Units	Blank Result	Reporting Limit	Notes
Mercury	ng/L	<0.50	0.50	

LABORATORY CONTROL SAMPLE: T187671-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Mercury	ng/L	5.000	4.65	93	77-123	

MATRIX SPIKE / MATRIX SPIKE DUPLICATE: T187671-MSD1

Original: **26H0718-03**

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Notes
Mercury	ng/L	0.230	10.00	8.53	9.05	83	88	71-125	6	24	

MATRIX SPIKE / MATRIX SPIKE DUPLICATE: T187671-MSD2

Original: **26H0718-09**

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Notes
Mercury	ng/L	0.537	10.00	9.22	9.20	87	87	71-125	0.1	24	

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T187675
QC Batch Method: EPA 1631E
Analysis Description: Mercury, Total, Low Level
Analysis Method: EPA 1631E

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METHOD BLANK: T187675-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Mercury	ng/L	<0.50	0.50	

METHOD BLANK: T187675-BLK2

Parameter	Units	Blank Result	Reporting Limit	Notes
Mercury	ng/L	<0.50	0.50	

METHOD BLANK: T187675-BLK3

Parameter	Units	Blank Result	Reporting Limit	Notes
Mercury	ng/L	<0.50	0.50	

LABORATORY CONTROL SAMPLE: T187675-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Mercury	ng/L	5.000	4.23	85	77-123	

MATRIX SPIKE / MATRIX SPIKE DUPLICATE: T187675-MSD1 Original: **26H0718-39**

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Notes
Mercury	ng/L	0.176	10.00	9.00	9.41	88	92	71-125	5	24	

MATRIX SPIKE / MATRIX SPIKE DUPLICATE: T187675-MSD2 Original: **26H0718-38**

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Notes
Mercury	ng/L	2.00	10.00	11.3	11.2	93	92	71-125	1	24	

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T187678
QC Batch Method: EPA 1631E
Analysis Description: Mercury, Total, Low Level
Analysis Method: EPA 1631E

METHOD BLANK: T187678-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Mercury	ng/L	<0.50	0.50	

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METHOD BLANK: T187678-BLK2

Parameter	Units	Blank Result	Reporting Limit	Notes
Mercury	ng/L	<0.50	0.50	

METHOD BLANK: T187678-BLK3

Parameter	Units	Blank Result	Reporting Limit	Notes
Mercury	ng/L	<0.50	0.50	

LABORATORY CONTROL SAMPLE: T187678-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Mercury	ng/L	5.000	4.65	93	77-123	

MATRIX SPIKE / MATRIX SPIKE DUPLICATE: T187678-MSD1 Original: **26H0718-41**

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Notes
Mercury	ng/L	1.40	10.00	9.92	9.74	85	83	71-125	2	24	

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T187536
QC Batch Method: EPA 200.2
Analysis Description: Potassium, Total
Analysis Method: EPA 200.7 Rev. 4.4

METHOD BLANK: T187536-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Boron	mg/L	<0.0088	0.0088	
Calcium	mg/L	<0.26	0.26	
Potassium	mg/L	<0.25	0.25	
Lithium	mg/L	<0.0025	0.0025	
Magnesium	mg/L	<0.10	0.10	
Sodium	mg/L	<0.12	0.12	

LABORATORY CONTROL SAMPLE: T187536-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Boron	mg/L	1.600	1.54	96	85-115	
Calcium	mg/L	16.00	15.7	98	85-115	
Potassium	mg/L	16.00	15.5	97	85-115	
Lithium	mg/L	1.600	1.54	96	85-115	

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LABORATORY CONTROL SAMPLE: T187536-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Magnesium	mg/L	16.00	15.9	99	85-115	
Sodium	mg/L	16.00	15.9	99	85-115	

MATRIX SPIKE: T187536-MS2 Original: **26H0718-23**

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Unit	Notes
Boron	mg/L	1.07	1.600	2.82	110	70-130	
Calcium	**mg/L**	**178**	**16.00**	214	**225**	**70-130**	**MS09**
Potassium	mg/L	9.62	16.00	26.7	107	70-130	
Lithium	mg/L	0.0280	1.600	1.63	100	70-130	
Magnesium	mg/L	26.8	16.00	46.4	122	70-130	
Sodium	mg/L	23.7	16.00	42.4	117	70-130	

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T187589
QC Batch Method: EPA 200.2
Analysis Description: Boron, Total
Analysis Method: EPA 200.7 Rev. 4.4

METHOD BLANK: T187589-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Boron	mg/L	<0.0088	0.0088	
Calcium	mg/L	<0.26	0.26	
Potassium	mg/L	<0.25	0.25	
Lithium	**mg/L**	**0.000855**	**0.0025**	**J**
Magnesium	mg/L	<0.10	0.10	
Sodium	mg/L	<0.12	0.12	

LABORATORY CONTROL SAMPLE: T187589-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Boron	mg/L	1.600	1.55	97	85-115	
Calcium	mg/L	16.00	15.2	95	85-115	
Potassium	mg/L	16.00	15.4	96	85-115	
Lithium	mg/L	1.600	1.57	98	85-115	
Magnesium	mg/L	16.00	15.6	98	85-115	
Sodium	mg/L	16.00	15.6	97	85-115	

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MATRIX SPIKE: T187589-MS1 Original: **26H0718-20**

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Unit	Notes
Boron	mg/L	0.370	1.600	1.91	97	70-130	
Calcium	mg/L	179	16.00	195	97	70-130	
Potassium	mg/L	4.82	16.00	20.3	97	70-130	
Lithium	mg/L	0.0240	1.600	1.61	99	70-130	
Magnesium	mg/L	18.3	16.00	34.2	100	70-130	
Sodium	mg/L	21.2	16.00	36.9	98	70-130	

MATRIX SPIKE: T187589-MS2 Original: **26H0718-02**

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Unit	Notes
Boron	mg/L	3.18	1.600	4.79	100	70-130	
Calcium	**mg/L**	**504**	**16.00**	509	**34**	**70-130**	**MS09**
Potassium	mg/L	14.4	16.00	29.2	92	70-130	
Lithium	mg/L	0.451	1.600	2.01	98	70-130	
Magnesium	mg/L	94.7	16.00	109	87	70-130	
Sodium	mg/L	56.6	16.00	69.9	83	70-130	

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T187659
QC Batch Method: EPA 200.2
Analysis Description: Sodium, Total
Analysis Method: EPA 200.7 Rev. 4.4

METHOD BLANK: T187659-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Boron	mg/L	<0.0088	0.0088	
Calcium	mg/L	<0.26	0.26	
Potassium	mg/L	<0.25	0.25	
Lithium	mg/L	<0.0025	0.0025	
Magnesium	**mg/L**	**0.0103**	**0.10**	**J**
Sodium	mg/L	<0.12	0.12	

LABORATORY CONTROL SAMPLE: T187659-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Boron	mg/L	1.600	1.48	93	85-115	
Calcium	mg/L	16.00	15.4	96	85-115	
Potassium	mg/L	16.00	15.5	97	85-115	
Lithium	mg/L	1.600	1.59	99	85-115	

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LABORATORY CONTROL SAMPLE: T187659-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Magnesium	mg/L	16.00	15.9	100	85-115	
Sodium	mg/L	16.00	16.0	100	85-115	

MATRIX SPIKE: T187659-MS2 Original: **26H0718-01**

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Unit	Notes
Boron	mg/L	7.60	1.600	8.97	85	70-130	
Calcium	mg/L	244	16.00	256	76	70-130	
Potassium	mg/L	21.0	16.00	35.2	89	70-130	
Lithium	mg/L	0.255	1.600	1.84	99	70-130	
Magnesium	mg/L	131	16.00	142	71	70-130	
Sodium	mg/L	114	16.00	129	94	70-130	

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T187536
QC Batch Method: EPA 200.2
Analysis Description: Cobalt, Total
Analysis Method: EPA 200.8 Rev. 5.4

METHOD BLANK: T187536-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Arsenic	mg/L	<0.00055	0.00055	
Barium	mg/L	<0.0025	0.0025	
Beryllium	mg/L	<0.00025	0.00025	
Cadmium	mg/L	<0.00025	0.00025	
Cobalt	mg/L	<0.00052	0.00052	
Chromium	mg/L	<0.00025	0.00025	
Molybdenum	mg/L	<0.0012	0.0012	
Nickel	mg/L	<0.0012	0.0012	
Lead	mg/L	<0.00055	0.00055	
Antimony	mg/L	<0.00025	0.00025	
Selenium	mg/L	<0.00050	0.00050	
Thallium	mg/L	<0.00038	0.00038	

LABORATORY CONTROL SAMPLE: T187536-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Arsenic	mg/L	0.1000	0.0950	95	85-115	
Barium	mg/L	1.600	1.53	96	85-115	

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LABORATORY CONTROL SAMPLE: T187536-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Beryllium	mg/L	0.2000	0.179	90	85-115	
Cadmium	mg/L	0.05000	0.0511	102	85-115	
Cobalt	mg/L	1.600	1.41	88	85-115	
Chromium	mg/L	0.05000	0.0487	97	85-115	
Molybdenum	mg/L	1.600	1.43	90	85-115	
Nickel	mg/L	1.600	1.38	86	85-115	
Lead	mg/L	0.1000	0.101	101	85-115	
Antimony	mg/L	0.1000	0.0998	100	85-115	
Selenium	mg/L	0.1000	0.0950	95	85-115	
Thallium	mg/L	0.1000	0.0965	97	85-115	

MATRIX SPIKE: T187536-MS2 Original: **26H0718-23**

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Unit	Notes
Arsenic	mg/L	0.00113	0.1000	0.0979	97	70-130	
Barium	mg/L	0.143	1.600	1.77	102	70-130	
Beryllium	mg/L	0	0.2000	0.164	82	70-130	
Cadmium	mg/L	0	0.05000	0.0518	104	70-130	
Cobalt	mg/L	0	1.600	1.33	83	70-130	
Chromium	mg/L	0.00295	0.05000	0.0530	100	70-130	
Molybdenum	mg/L	0	1.600	1.51	95	70-130	
Nickel	mg/L	0.00135	1.600	1.26	79	70-130	
Lead	mg/L	0.000759	0.1000	0.106	106	70-130	
Antimony	mg/L	0	0.1000	0.103	103	70-130	
Selenium	mg/L	0	0.1000	0.0974	97	70-130	
Thallium	mg/L	0	0.1000	0.103	103	70-130	

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T187589
QC Batch Method: EPA 200.2
Analysis Description: Barium, Total
Analysis Method: EPA 200.8 Rev. 5.4

METHOD BLANK: T187589-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Arsenic	mg/L	<0.00055	0.00055	
Barium	mg/L	<0.0025	0.0025	
Beryllium	mg/L	<0.00025	0.00025	

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METHOD BLANK: T187589-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Cadmium	mg/L	<0.00025	0.00025	
Cobalt	mg/L	<0.00052	0.00052	
Chromium	mg/L	<0.00025	0.00025	
Molybdenum	mg/L	<0.0012	0.0012	
Nickel	mg/L	<0.0012	0.0012	
Lead	mg/L	<0.00055	0.00055	
Antimony	mg/L	<0.00025	0.00025	
Selenium	mg/L	<0.00050	0.00050	
Thallium	mg/L	<0.00038	0.00038	

LABORATORY CONTROL SAMPLE: T187589-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Arsenic	mg/L	0.1000	0.0998	100	85-115	
Barium	mg/L	1.600	1.60	100	85-115	
Beryllium	mg/L	0.2000	0.196	98	85-115	
Cadmium	mg/L	0.05000	0.0548	110	85-115	
Cobalt	mg/L	1.600	1.51	95	85-115	
Chromium	mg/L	0.05000	0.0507	101	85-115	
Molybdenum	mg/L	1.600	1.58	99	85-115	
Nickel	mg/L	1.600	1.49	93	85-115	
Lead	mg/L	0.1000	0.106	106	85-115	
Antimony	mg/L	0.1000	0.107	107	85-115	
Selenium	mg/L	0.1000	0.0999	100	85-115	
Thallium	mg/L	0.1000	0.102	102	85-115	

MATRIX SPIKE: T187589-MS1 Original: **26H0718-20**

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Unit	Notes
Arsenic	mg/L	0.0170	0.1000	0.117	100	70-130	
Barium	mg/L	0.323	1.600	1.95	102	70-130	
Beryllium	mg/L	0	0.2000	0.196	98	70-130	
Cadmium	mg/L	0	0.05000	0.0542	108	70-130	
Cobalt	mg/L	0	1.600	1.48	93	70-130	
Chromium	mg/L	0.00169	0.05000	0.0530	103	70-130	
Molybdenum	mg/L	0	1.600	1.63	102	70-130	
Nickel	mg/L	0.00542	1.600	1.44	90	70-130	
Lead	mg/L	0	0.1000	0.107	107	70-130	
Antimony	mg/L	0	0.1000	0.109	109	70-130	

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MATRIX SPIKE: T187589-MS1 Original: **26H0718-20**

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Unit	Notes
Selenium	mg/L	0	0.1000	0.0917	92	70-130	
Thallium	mg/L	0	0.1000	0.103	103	70-130	

MATRIX SPIKE: T187589-MS2 Original: **26H0718-02**

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Unit	Notes
Arsenic	mg/L	0.00167	0.1000	0.102	100	70-130	
Barium	mg/L	0.0745	1.600	1.62	96	70-130	
Beryllium	mg/L	0	0.2000	0.201	101	70-130	
Cadmium	mg/L	0	0.05000	0.0507	101	70-130	
Cobalt	mg/L	0	1.600	1.53	96	70-130	
Chromium	mg/L	0.00258	0.05000	0.0575	110	70-130	
Molybdenum	mg/L	0.0150	1.600	1.74	108	70-130	
Nickel	mg/L	0.00473	1.600	1.45	90	70-130	
Lead	mg/L	0.000412	0.1000	0.106	106	70-130	
Antimony	mg/L	0	0.1000	0.102	102	70-130	
Selenium	mg/L	0.000562	0.1000	0.0931	93	70-130	
Thallium	mg/L	0	0.1000	0.103	103	70-130	

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T187659
QC Batch Method: EPA 200.2

Analysis Description: Chromium, Total
Analysis Method: EPA 200.8 Rev. 5.4

METHOD BLANK: T187659-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Arsenic	mg/L	<0.00055	0.00055	
Barium	mg/L	<0.0025	0.0025	
Beryllium	mg/L	<0.00025	0.00025	
Cadmium	mg/L	<0.00025	0.00025	
Cobalt	mg/L	<0.00052	0.00052	
Chromium	mg/L	<0.00025	0.00025	
Molybdenum	mg/L	<0.0012	0.0012	
Nickel	mg/L	<0.0012	0.0012	
Lead	mg/L	<0.00055	0.00055	
Antimony	mg/L	<0.00025	0.00025	
Selenium	mg/L	<0.00050	0.00050	
Thallium	mg/L	<0.00038	0.00038	

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LABORATORY CONTROL SAMPLE: T187659-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Arsenic	mg/L	0.1000	0.0968	97	85-115	
Barium	mg/L	1.600	1.54	96	85-115	
Beryllium	mg/L	0.2000	0.191	95	85-115	
Cadmium	mg/L	0.05000	0.0527	105	85-115	
Cobalt	mg/L	1.600	1.47	92	85-115	
Chromium	mg/L	0.05000	0.0501	100	85-115	
Molybdenum	mg/L	1.600	1.52	95	85-115	
Nickel	mg/L	1.600	1.44	90	85-115	
Lead	mg/L	0.1000	0.104	104	85-115	
Antimony	mg/L	0.1000	0.100	100	85-115	
Selenium	mg/L	0.1000	0.0952	95	85-115	
Thallium	mg/L	0.1000	0.0991	99	85-115	

MATRIX SPIKE: T187659-MS2 Original: **26H0718-01**

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Unit	Notes
Arsenic	mg/L	0.00674	0.1000	0.104	97	70-130	
Barium	mg/L	0.108	1.600	1.65	97	70-130	
Beryllium	mg/L	0	0.2000	0.170	85	70-130	
Cadmium	mg/L	0	0.05000	0.0509	102	70-130	
Cobalt	mg/L	0.00282	1.600	1.39	86	70-130	
Chromium	mg/L	0.00311	0.05000	0.0500	94	70-130	
Molybdenum	mg/L	0.0250	1.600	1.62	100	70-130	
Nickel	mg/L	0.00756	1.600	1.33	83	70-130	
Lead	mg/L	0.000829	0.1000	0.109	108	70-130	
Antimony	mg/L	0.000477	0.1000	0.103	102	70-130	
Selenium	mg/L	0.00162	0.1000	0.0901	88	70-130	
Thallium	mg/L	0	0.1000	0.104	104	70-130	

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T187128
QC Batch Method: IC Prep W
Analysis Description: Sulfate
Analysis Method: EPA 300.0 Rev. 2.1

METHOD BLANK: T187128-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Chloride	mg/L	<0.15	0.15	

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METHOD BLANK: T187128-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Fluoride	mg/L	<0.020	0.020	
Sulfate as SO4	mg/L	<1.0	1.0	

LABORATORY CONTROL SAMPLE: T187128-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Chloride	**mg/L**	**5.000**	**<10**	**105**	**90-110**	**J**
Fluoride	mg/L	1.000	0.926	93	90-110	
Sulfate as SO4	mg/L	5.000	5.09	102	90-110	

MATRIX SPIKE: T187128-MS1 Original: **26H0718-08**

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Unit	Notes
Chloride	mg/L	15.8	50.00	64.7	98	80-120	
Fluoride	mg/L	0.142	10.00	9.10	90	80-120	
Sulfate as SO4	mg/L	15.0	50.00	63.8	98	80-120	

MATRIX SPIKE: T187128-MS2 Original: **26H0718-09**

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Unit	Notes
Chloride	mg/L	14.0	50.00	64.6	101	80-120	
Fluoride	mg/L	7.16	10.00	16.5	93	80-120	
Sulfate as SO4	mg/L	19.7	50.00	69.1	99	80-120	

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T187265
QC Batch Method: IC Prep W
Analysis Description: Chloride
Analysis Method: EPA 300.0 Rev. 2.1

METHOD BLANK: T187265-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Chloride	mg/L	<0.15	0.15	
Fluoride	mg/L	<0.020	0.020	
Sulfate as SO4	mg/L	<1.0	1.0	

LABORATORY CONTROL SAMPLE: T187265-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Chloride	**mg/L**	**5.000**	**<10**	**107**	**90-110**	**J**

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LABORATORY CONTROL SAMPLE: T187265-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Fluoride	mg/L	1.000	1.02	102	90-110	
Sulfate as SO4	mg/L	5.000	5.29	106	90-110	

MATRIX SPIKE: T187265-MS1 Original: **26H0718-23**

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Unit	Notes
Chloride	mg/L	23.0	50.00	75.6	105	80-120	
Fluoride	mg/L	0.292	10.00	10.4	101	80-120	
Sulfate as SO4	mg/L	25.8	50.00	78.6	106	80-120	

MATRIX SPIKE: T187265-MS2 Original: **26H0718-25**

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Unit	Notes
Chloride	mg/L	76.1	50.00	126	100	80-120	
Fluoride	mg/L	0.782	10.00	10.3	95	80-120	
Sulfate as SO4	mg/L	40.8	50.00	89.4	97	80-120	

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T187534
QC Batch Method: SM 2320 B-21
Analysis Description: Alkalinity, Bicarbonate
Analysis Method: SM 2320 B-21

LABORATORY CONTROL SAMPLE: T187534-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Bicarbonate Alkalinity as CaCO3 at pH 4.5	mg/L	100.0	96.9	97	88-112	
Carbonate Alkalinity as CaCO3 at pH 8.2	mg/L	100.0	96.9	97	88-112	
Total Alkalinity as CaCO3 at pH 4.5	mg/L	100.0	96.9	97	88-112	

SAMPLE DUPLICATE: T187534-DUP1 Original: **26H0718-01**

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Notes
Bicarbonate Alkalinity as CaCO3 at pH 4.5	mg/L	690	684	0.8	20	
Carbonate Alkalinity as CaCO3 at pH 8.2	mg/L	0	<10		20	
Total Alkalinity as CaCO3 at pH 4.5	mg/L	690	684	0.8	20	

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Muskegon, MI 49444-2673

231-773-5998 Phone
888-979-4469 Fax
www.trace-labs.com

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T187535
QC Batch Method: SM 2320 B-21
Analysis Description: Alkalinity, Carbonate
Analysis Method: SM 2320 B-21

LABORATORY CONTROL SAMPLE: T187535-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Bicarbonate Alkalinity as CaCO3 at pH 4.5	mg/L	100.0	94.6	95	88-112	
Carbonate Alkalinity as CaCO3 at pH 8.2	mg/L	100.0	94.6	95	88-112	
Total Alkalinity as CaCO3 at pH 4.5	mg/L	100.0	94.6	95	88-112	

SAMPLE DUPLICATE: T187535-DUP1 Original: **26H0718-23**

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Notes
Bicarbonate Alkalinity as CaCO3 at pH 4.5	mg/L	592	595	0.5	20	
Carbonate Alkalinity as CaCO3 at pH 8.2	mg/L	0	<10		20	
Total Alkalinity as CaCO3 at pH 4.5	mg/L	592	595	0.5	20	

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T187119
QC Batch Method: SM 2540 C-20
Analysis Description: Total Dissolved Solids
Analysis Method: SM 2540 C-20

METHOD BLANK: T187119-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Total Dissolved Solids	**mg/L**	**1.00**	**10**	**J**

LABORATORY CONTROL SAMPLE: T187119-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Total Dissolved Solids	mg/L	500.0	528	106	80-120	

SAMPLE DUPLICATE: T187119-DUP1 Original: **26H0718-01**

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Notes
Total Dissolved Solids	mg/L	1820	1800	0.7	10	

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Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T187270 | Analysis Description: Total Dissolved Solids
QC Batch Method: SM 2540 C-20 | Analysis Method: SM 2540 C-20

METHOD BLANK: T187270-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Total Dissolved Solids	**mg/L**	**1.00**	**10**	**J**

LABORATORY CONTROL SAMPLE: T187270-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Total Dissolved Solids	mg/L	500.0	517	103	80-120	

SAMPLE DUPLICATE: T187270-DUP1 Original: **26H0718-23**

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Notes
Total Dissolved Solids	mg/L	708	740	4	10	

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T187143 | Analysis Description: Total Suspended Solids
QC Batch Method: SM 2540 D-20 | Analysis Method: SM 2540 D-20

METHOD BLANK: T187143-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Total Suspended Solids	mg/L	<4.0	4.0	

LABORATORY CONTROL SAMPLE: T187143-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Total Suspended Solids	mg/L	100.0	95.8	96	85-115	

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T187144 | Analysis Description: Total Suspended Solids
QC Batch Method: SM 2540 D-20 | Analysis Method: SM 2540 D-20

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METHOD BLANK: T187144-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Total Suspended Solids	mg/L	<4.0	4.0	

LABORATORY CONTROL SAMPLE: T187144-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Total Suspended Solids	mg/L	100.0	97.9	98	85-115	

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T187322
QC Batch Method: SM 2540 D-20
Analysis Description: Total Suspended Solids
Analysis Method: SM 2540 D-20

METHOD BLANK: T187322-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Total Suspended Solids	mg/L	<4.0	4.0	

LABORATORY CONTROL SAMPLE: T187322-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Total Suspended Solids	mg/L	100.0	95.5	95	85-115	

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T187154
QC Batch Method: *** DEFAULT PREP ***
Analysis Description: pH, SM 4500
Analysis Method: SM 4500-H+ B-11 (Lab)

SAMPLE DUPLICATE: T187154-DUP1 Original: **26H0718-01**

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Notes
pH	**pH Units**	**7.55**	**7.36**	**3**	**20**	**PH01a**

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T187331
QC Batch Method: *** DEFAULT PREP ***
Analysis Description: pH, SM 4500
Analysis Method: SM 4500-H+ B-11 (Lab)

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AN EXPLANATION OF TERMS AND SYMBOLS WHICH MAY OCCUR IN THIS REPORT

DEFINITIONS

LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MS	Matrix Spike
MSD	Matrix Spike Duplicate
RPD	Relative Percent Difference
DUP	Matrix Duplicate
LOQ	Limit of Quantitation
LOD	Limit of Detection
TIC	Tentatively Identified Compound
<, ND or U	Indicates the compound was analyzed for but not detected
*	Indicates a result that exceeds its associated MCL or Surrogate control limits
N	Indicates that the compound has not been evaluated by NELAC
NA	Indicates that the compound is not available.

NOTE: Samples for volatiles that have been extracted with a water miscible solvent were corrected for the total volume of the solvent/water mixture.
Solid matrices Method Blanks are at 100% solids as such results are the same wet or dry.

Definitions and Notes

Trace ID: 26H0718-01

Analysis: SM 4500-H+ B-11 (Lab)

pH	Note H04 : The sample was received and, therefore, analyzed beyond the established EPA hold time.
pH	Note PH01 : The pH was analyzed at 10:26

Trace ID: 26H0718-02

Analysis: SM 4500-H+ B-11 (Lab)

pH	Note H04 : The sample was received and, therefore, analyzed beyond the established EPA hold time.
pH	Note PH01b : The pH was analyzed at 10:33

Trace ID: 26H0718-03

Analysis: SM 4500-H+ B-11 (Lab)

pH	Note H04 : The sample was received and, therefore, analyzed beyond the established EPA hold time.
pH	Note PH01c : The pH was analyzed at 10:35

Trace ID: 26H0718-04

Analysis: SM 4500-H+ B-11 (Lab)

pH	Note H04 : The sample was received and, therefore, analyzed beyond the established EPA hold time.

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pH	Note PH01d : The pH was analyzed at 10:37

Trace ID: 26H0718-05

Analysis: SM 4500-H+ B-11 (Lab)

pH	Note H04 : The sample was received and, therefore, analyzed beyond the established EPA hold time.
pH	Note PH01e : The pH was analyzed at 10:39

Trace ID: 26H0718-07

Analysis: SM 4500-H+ B-11 (Lab)

pH	Note H02 : The analysis was performed beyond the analyte EPA established hold time.
pH	Note PH01f : The pH was analyzed at 10:41

Trace ID: 26H0718-08

Analysis: SM 4500-H+ B-11 (Lab)

pH	Note H02 : The analysis was performed beyond the analyte EPA established hold time.
pH	Note PH01g : The pH was analyzed at 10:43

Trace ID: 26H0718-09

Analysis: SM 4500-H+ B-11 (Lab)

pH	Note PH01h : The pH was analyzed at 10:45

Trace ID: 26H0718-10

Analysis: SM 4500-H+ B-11 (Lab)

pH	Note PH01i : The pH was analyzed at 10:47

Trace ID: 26H0718-11

Analysis: SM 4500-H+ B-11 (Lab)

pH	Note PH01j : The pH was analyzed at 10:49

Trace ID: 26H0718-12

Analysis: SM 4500-H+ B-11 (Lab)

pH	Note PH01k : The pH was analyzed at 10:51

Trace ID: 26H0718-13

Analysis: SM 4500-H+ B-11 (Lab)

pH	Note PH01l : The pH was analyzed at 10:53

Trace ID: 26H0718-14

Analysis: SM 4500-H+ B-11 (Lab)

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pH	Note H02 : The analysis was performed beyond the analyte EPA established hold time.
pH	Note PH01m : The pH was analyzed at 10:55

Trace ID: 26H0718-15

Analysis: SM 4500-H+ B-11 (Lab)

pH	Note H02 : The analysis was performed beyond the analyte EPA established hold time.
pH	Note PH01n : The pH was analyzed at 10:57

Trace ID: 26H0718-16

Analysis: SM 4500-H+ B-11 (Lab)

pH	Note H02 : The analysis was performed beyond the analyte EPA established hold time.
pH	Note PH01o : The pH was analyzed at 10:59

Trace ID: 26H0718-17

Analysis: SM 4500-H+ B-11 (Lab)

pH	Note PH01p : The pH was analyzed at 11:01

Trace ID: 26H0718-18

Analysis: SM 4500-H+ B-11 (Lab)

pH	Note PH01q : The pH was analyzed at 11:03

Trace ID: 26H0718-19

Analysis: SM 4500-H+ B-11 (Lab)

pH	Note PH01r : The pH was analyzed at 11:05

Trace ID: 26H0718-20

Analysis: SM 4500-H+ B-11 (Lab)

pH	Note PH01s : The pH was analyzed at 11:07

Trace ID: 26H0718-21

Analysis: SM 4500-H+ B-11 (Lab)

pH	Note PH01t : The pH was analyzed at 11:09

Trace ID: 26H0718-23

Analysis: SM 4500-H+ B-11 (Lab)

pH	Note H04 : The sample was received and, therefore, analyzed beyond the established EPA hold time.
pH	Note PH01u : The pH was analyzed at 14:06

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Trace ID: 26H0718-24

Analysis: SM 4500-H+ B-11 (Lab)

pH	Note H04 : The sample was received and, therefore, analyzed beyond the established EPA hold time.
pH	Note PH01v : The pH was analyzed at 14:09

Trace ID: 26H0718-25

Analysis: SM 4500-H+ B-11 (Lab)

pH	Note H04 : The sample was received and, therefore, analyzed beyond the established EPA hold time.
pH	Note PH01w : The pH was analyzed at 14:12

Trace ID: 26H0718-26

Analysis: SM 4500-H+ B-11 (Lab)

pH	Note H04 : The sample was received and, therefore, analyzed beyond the established EPA hold time.
pH	Note PH01x : The pH was analyzed at 14:13

Trace ID: 26H0718-27

Analysis: SM 4500-H+ B-11 (Lab)

pH	Note H04 : The sample was received and, therefore, analyzed beyond the established EPA hold time.
pH	Note PH01y : The pH was analyzed at 14:14

Trace ID: 26H0718-28

Analysis: SM 4500-H+ B-11 (Lab)

pH	Note H04 : The sample was received and, therefore, analyzed beyond the established EPA hold time.
pH	Note PH01z : The pH was analyzed at 14:15

Trace ID: 26H0718-29

Analysis: SM 4500-H+ B-11 (Lab)

pH	Note H04 : The sample was received and, therefore, analyzed beyond the established EPA hold time.
pH	Note PH01aa : The pH was analyzed at 14:19

Trace ID: 26H0718-30

Analysis: SM 4500-H+ B-11 (Lab)

pH	Note H04 : The sample was received and, therefore, analyzed beyond the established EPA hold time.
pH	Note PH01ab : The pH was analyzed at 14:21

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Trace ID: 26H0718-31

Analysis: SM 4500-H+ B-11 (Lab)

pH	Note H04 : The sample was received and, therefore, analyzed beyond the established EPA hold time.
pH	Note PH01ac : The pH was analyzed at 14:23

Trace ID: 26H0718-32

Analysis: SM 4500-H+ B-11 (Lab)

pH	Note H04 : The sample was received and, therefore, analyzed beyond the established EPA hold time.
pH	Note PH01ad : The pH was analyzed at 14:32

Trace ID: 26H0718-33

Analysis: SM 4500-H+ B-11 (Lab)

pH	Note H04 : The sample was received and, therefore, analyzed beyond the established EPA hold time.
pH	Note PH01ae : The pH was analyzed at 14:34

Trace ID: 26H0718-35

Analysis: SM 4500-H+ B-11 (Lab)

pH	Note H04 : The sample was received and, therefore, analyzed beyond the established EPA hold time.
pH	Note PH01af : The pH was analyzed at 14:40

Trace ID: 26H0718-36

Analysis: SM 4500-H+ B-11 (Lab)

pH	Note H02 : The analysis was performed beyond the analyte EPA established hold time.
pH	Note PH01ag : The pH was analyzed at 14:44

Trace ID: 26H0718-37

Analysis: SM 4500-H+ B-11 (Lab)

pH	Note H02 : The analysis was performed beyond the analyte EPA established hold time.
pH	Note PH01ah : The pH was analyzed at 14:47

Trace ID: 26H0718-38

Analysis: SM 4500-H+ B-11 (Lab)

pH	Note H02 : The analysis was performed beyond the analyte EPA established hold time.
pH	Note PH01ai : The pH was analyzed at 14:49

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www.trace-labs.com

Trace ID: 26H0718-39

Analysis: SM 4500-H+ B-11 (Lab)

pH	Note H02 : The analysis was performed beyond the analyte EPA established hold time.
pH	Note PH01aj : The pH was analyzed at 14:51

Trace ID: 26H0718-40

Analysis: SM 4500-H+ B-11 (Lab)

pH	Note H02 : The analysis was performed beyond the analyte EPA established hold time.
pH	Note PH01ak : The pH was analyzed at 14:53

Trace ID: 26H0718-41

Analysis: SM 4500-H+ B-11 (Lab)

pH	Note H02 : The analysis was performed beyond the analyte EPA established hold time.
pH	Note PH01al : The pH was analyzed at 14:54

Trace ID: T187154-DUP1

Analysis: SM 4500-H+ B-11 (Lab)

pH	Note PH01a : The pH was analyzed at 10:30

Trace ID: T187536-MS2

Analysis: EPA 200.7 Rev. 4.4

Calcium	Note MS09 : The MS recovery was out of control. Because the background concentration of this analyte is greater than 4X the spike amount, no data require qualification.

Trace ID: T187589-MS2

Analysis: EPA 200.7 Rev. 4.4

Calcium	Note MS09 : The MS recovery was out of control. Because the background concentration of this analyte is greater than 4X the spike amount, no data require qualification.

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Page 1 of 3

Trace ID No. 26H0718

Report Results To:

Company Name: HDR, Inc.	
Report To: Molly Reeves	
Mailing Address: 1000 Oakbrook Drive, Suite 200	
City, State, Zip Code: Ann Arbor, MI 48104	
Office Phone:	Cell Phone: 734.263.7138
Email Address: molly.reeves@hdrinc.com	

Bill To:

PO #: 10337505.006	
Contact Name: Lara Zawaideh	
Billing Address (if different):	
City, State, Zip Code:	
Phone Number: 734.223.9074	
Billing Email Address: lara.zawaideh@hdrinc.com	

Trace Use:

Logged By: NC	
Checked By: SAB	
Soil Volatiles Preserved (circle if applicable):	
MeOH	Low Level / Lab
Sample Collection Time (Hrs):	

Requested Turnaround Times (TAT)

☒ Standard: 5-10 Business days
☐ 3 Business Days*
☐ 1 Business Day*
** Rush TAT Requires Prior Approval*

Matrix Key:

WW = Wastewater, DW = Drinking Water, GW = Groundwater, LW = Liquid Waste, O = Oil, WI = Wipes, S = Solid, SL = Sludge, A = Air, U = Unknown

Project Name: City of Grand Haven - Harbor Island

Sampled By (print): Andrew Byers / Franklin Davis Reg

Trace No.	Sample Collection Date	Sample Collection Time	Sample ID/Name	Metals Field Filterd (Y or N)	Matrix - see above →	Number of Containers	Preservation: Cool ≤ 4°C	Hydrochloric Acid (HCl)	Nitric Acid (HNO3)	Sulfuric Acid (H2SO4)	Sodium Thiosulfate	Sodium Hydroxide (NaOH)	Ascorbic Acid	Trizma	Other	Analysis Requested: 40 CFR Appendix III to Part 257	40 CFR Appendix IV to Part 257	Additional MI Part 115 Metals	Total Suspended Solids (TSS)	~~See attached list.~~ RAB	Li Hg	Possible Health Hazards?	Remarks/Notes
1	8/10/26	1238	MW-41	N	GW	4	4		2							X	X	X	X		X		
2	8/10/26	1346	MW-09	N	GW	4	4		2							X	X	X	X		X		
3	8/10/26	1510	MW-10	N	GW	4	4		2							X	X	X	X		X		
4	8/10/26	1510	MWT-10	N	GW	4	4		2							X	X	X	X		X		
5	8/10/26	1515	MW-42	N	GW	4	4		2							X	X	X	X		X		
6	8/10/26	1620	LLHGTB-08102026	N	W	1	1														X		
7	8/11/26	900	MW-30	N	GW	4	4		2							X	X	X	X		X		
8	8/11/26	1015	MW-07	N	GW	4	4		2							X	X	X	X		X		
9	8/11/26	1120	MW-43	N	GW	4	4		2							X	X	X	X		X		
10	8/11/26	1245	MW-20	N	GW	4	4		2							X	X	X	X		X		

Please Sign	Released By	Date	Time	Received By	Released By	Date	Time	Received By
1)	Andrew Byers	8/11/26	0819		2)			
3)					4)			

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Phone 231.773.5998
Fax 888.979.4469
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Trace ID No. 26H0718

Report Results To:

Company Name: HDR, Inc.
Report To: Molly Reeves
Mailing Address: 1000 Oakbrook Drive, Suite 200
City, State, Zip Code: Ann Arbor, MI 48104
Office Phone: | Cell Phone: 734.263.7138
Email Address: molly.reeves@hdrinc.com

Bill To:

PO #: 10337505.006
Contact Name: Lara Zawaideh
Billing Address (if different):
City, State, Zip Code:
Phone Number: 734.223.9074
Billing Email Address: lara.zawaideh@hdrinc.com

Trace Use:

Logged By: NC
Checked By: SAB
Soil Volatiles Preserved (circle if applicable): MeOH | Low Level | Lab
Sample Collection Time (Hrs):

Requested Turnaround Times (TAT)

☒ Standard: 5-10 Business days
☐ 3 Business Days*
☐ 1 Business Day*
** Rush TAT Requires Prior Approval*

Matrix Key:

WW = Wastewater | O = Oil | A = Air
DW = Drinking Water | WI = Wipes | U = Unknown
GW = Groundwater | S = Solid
LW = Liquid Waste | SL = Sludge

Project Name: City of Grand Haven - Harbor Island
Sampled By (print): Andrew Byles / Franklin Davis Ray

Trace No.	Sample Collection Date	Sample Collection Time	Sample ID/Name	Matrix	Number of Containers	Preservation: Cool ≤ 4°C	Hydrochloric Acid (HCl)	Nitric Acid (HNO3)	Sulfuric Acid (H2SO4)	Sodium Thiosulfate	Sodium Hydroxide (NaOH)	Ascorbic Acid	Trizma	Other	Metals Field Filterd (Y or N)	40 CFR Appendix III to Part 257	40 CFR Appendix IV to Part 257	Additional MI Part 115 Metals	Total Suspended Solids (TSS)	~~See attached list.~~ ATB	LLHg	Possible Health Hazards?	Remarks/Notes
11	8/11/26	1350	MW-17	GW	4	4		2							N	X	X	X	X	X			
12	8/11/26	1505	MW-18	GW	4	4		2							N	X	X	X	X	X			
13	8/11/26	1530	MWT-18	GW	4	4		2							N	X	X	X	X	X			
14	8/11/26	922	MW-37	GW	4	4		2							N	X	X	X	X	X			
15	8/11/26	950	MW-38	GW	4	4		2							N	X	X	X	X	X			
16	8/11/26	1038	MW-36	GW	4	4		2							N	X	X	X	X	X			
17	8/11/26	1240	MW-01RB	GW	4	4		2							N	X	X	X	X	X			
18	8/11/26	1340	MW-01R	GW	4	4		2							N	X	X	X	X	X			
19	8/11/26	1502	MW-13	GW	4	4		2							N	X	X	X	X	X			
20	8/11/26	1630	MW-10	GW	4	4		2							N	X	X	X	X	X			

Please Sign

	Released By	Received By	Date	Time
1)	Andrew Byles		8/12/26	0819
2)				
3)				
4)				

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Page 3 of 3

Trace ID No. 26H0718

Report Results To:		Bill To:	
Company Name: HDR, Inc.		PO #: 10337505.006	
Report To: Molly Reeves		Contact Name: Lara Zawaideh	
Mailing Address: 1000 Oakbrook Drive, Suite 200		Billing Address (if different):	
City, State, Zip Code: Ann Arbor, MI 48104		City, State, Zip Code:	
Office Phone:	Cell Phone: 734.263.7138	Phone Number: 734.223.9074	
Email Address: molly.reeves@hdrinc.com		Billing Email Address: lara.zawaideh@hdrinc.com	

Trace Use:

Logged By: NC

Checked By: SAB

Soil Volatiles Preserved (circle if applicable): MeOH Low Level Lab

Sample Collection Time (Hrs):

Requested Turnaround Times (TAT)

- ☒ Standard: 5-10 Business days
- ☐ 3 Business Days*
- ☐ 1 Business Day*

** Rush TAT Requires Prior Approval*

Matrix Key:

WW = Wastewater, O = Oil, A = Air
DW = Drinking Water, WI = Wipes, U = Unknown
GW = Groundwater, S = Solid
LW = Liquid Waste, SL = Sludge

Project Name: City of Grand Haven - Harbor Island

Sampled By (print): Andrew Bykes / Franklin Davis Ray

Trace No.	Sample Collection Date	Sample Collection Time	Sample ID/Name	Metals Field Filterd (Y or N)	Matrix - see above →	Number of Containers	Preservation: Cool ≤ 4°C	Hydrochloric Acid (HCl)	Nitric Acid (HNO3)	Sulfuric Acid (H2SO4)	Sodium Thiosulfate	Sodium Hydroxide (NaOH)	Ascorbic Acid	Trizma	Other	Analysis Requested: 40 CFR Appendix III to Part 257	40 CFR Appendix IV to Part 257	Additional MI Part 115 Metals	Total Suspended Solids (TSS)	~~See attached list.~~ AB	LL Hg	Remarks/Notes	Possible Health Hazards?
21	8/11/26	1630	MWT-16	N	GW	4	4		2							X	X	X	X		X		
22	8/11/26	1720	LLHG TB - 08112026	N	W	1	1														X		

AB

Please Sign	Released By	Received By	Date	Time		Released By	Received By	Date	Time
1)	[signature]	[signature]	8/12/26	0819	2)				
3)					4)				

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Form 70-Z.2

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2241 Black Creek Road
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TRACE ANALYTICAL LABORATORIES, INC.

231-773-5998 Phone
888-979-4469 Fax
www.trace-labs.com

CHAIN-OF-CUSTODY RECORD

Trace Analytical Laboratories, Inc.
2241 Black Creek Road
Muskegon, MI 49444-2673

Phone 231.773.5998
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www.trace-labs.com

Page 1 of 2

Trace ID No. 26H0718

Report Results To:

Company Name: HDR, Inc.
Report To: Molly Reeves
Mailing Address: 1000 Oakbrook Drive, Suite 200
City, State, Zip Code: Ann Arbor, MI 48104
Office Phone: Cell Phone: 734.263.7138
Email Address: molly.reeves@hdrinc.com

Bill To:

PO #: 10337505.006
Contact Name: Lara Zawaideh
Billing Address (if different):
City, State, Zip Code:
Phone Number: 734.223.9074
Billing Email Address: lara.zawaideh@hdrinc.com

Trace Use:

Logged By: NC
Checked By: LZ
Soil Volatiles Preserved (circle if applicable): MeOH Low Level Lab
Sample Collection Time (Hrs):

Project Name: City of Grand Haven - Harbor Island
Sampled By (print): Andrew Byks / Franklin Davis Reg

Requested Turnaround Times (TAT)

☒ Standard: 5-10 Business days
☐ 3 Business Days*
☐ 1 Business Day*
** Rush TAT Requires Prior Approval*

Matrix Key:

WW = Wastewater, DW = Drinking Water, GW = Groundwater, LW = Liquid Waste, O = Oil, WI = Wipes, S = Solid, SL = Sludge, A = Air, U = Unknown

Trace No.	Sample Collection Date	Sample Collection Time	Sample ID/Name	Metals Field Filterd (Y or N)	Matrix - see above →	Number of Containers	Preservation: Cool ≤ 4°C	Preservation: Hydrochloric Acid (HCl)	Preservation: Nitric Acid (HNO3)	Preservation: Sulfuric Acid (H2SO4)	Preservation: Sodium Thiosulfate	Preservation: Sodium Hydroxide (NaOH)	Preservation: Ascorbic Acid	Preservation: Trizma	Preservation: Other	Analysis Requested: 40 CFR Appendix III to Part 257	Analysis Requested: 40 CFR Appendix IV to Part 257	Analysis Requested: Additional MI Part 115 Metals	Analysis Requested: Total Suspended Solids (TSS)	Analysis Requested: ~~See attached list.~~ AB	Analysis Requested: LLHG	Analysis Requested:	Analysis Requested:	Analysis Requested:	Analysis Requested: Possible Health Hazards?	Remarks/Notes
23	8/12/26	1000	MW-39	N	GW	4	4		2							X	X	X	X		X					
24	8/12/26	1144	MW-02	N	GW	4	4		2							X	X	X	X		X					
25	8/12/26	1340	MW-11	N	GW	4	4		2							X	X	X	X		X					
26	8/12/26	1448	MW-06	N	GW	4	4		2							X	X	X	X		X					
27	8/12/26	1602	MW-34	N	GW	4	4		2							X	X	X	X		X					
28	8/12/26	935	MW-19	N	GW	4	4		2							X	X	X	X		X					
29	8/12/26	1040	MW-32	N	GW	4	4		2							X	X	X	X		X					
30	8/12/26	1200	MW-08	N	GW	4	4		2							X	X	X	X		X					
31	8/12/26	1355	MW-28	N	GW	4	4		2							X	X	X	X		X					
32	8/12/26	1510	MW-27	N	GW	4	4		2							X	X	X			X					

Please Sign

	Released By	Received By	Date	Time
1)	Andrew Byks		8/14/26	0912
2)				
3)				
4)				

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Page 2 of 2

Trace ID No. 26H0718

Report Results To:

Company Name: HDR, Inc.
Report To: Molly Reeves
Mailing Address: 1000 Oakbrook Drive, Suite 200
City, State, Zip Code: Ann Arbor, MI 48104
Office Phone: Cell Phone: 734.263.7138
Email Address: molly.reeves@hdrinc.com

Bill To:

PO #: 10337505.006
Contact Name: Lara Zawaideh
Billing Address (if different):
City, State, Zip Code:
Phone Number: 734.223.9074
Billing Email Address: lara.zawaideh@hdrinc.com

Trace Use:

Logged By:
Checked By:
Soil Volatiles Preserved (circle if applicable): MeOH Low Level Lab
Sample Collection Time (Hrs):

Requested Turnaround Times (TAT)

☒ Standard: 5-10 Business days
☐ 3 Business Days*
☐ 1 Business Day*
** Rush TAT Requires Prior Approval*

Matrix Key:

WW = Wastewater, DW = Drinking Water, GW = Groundwater, LW = Liquid Waste, O = Oil, WI = Wipes, S = Solid, SL = Sludge, A = Air, U = Unknown

Project Name: City of Grand Haven - Harbor Island
Sampled By (print): Andrew Byles / Franklin Davis Ray

Trace No.	Sample Collection Date	Sample Collection Time	Sample ID/Name	Metals Field Filterd (Y or N)	Matrix - see above →	Number of Containers	Preservation: Cool ≤ 4°C	Hydrochloric Acid (HCl)	Nitric Acid (HNO3)	Sulfuric Acid (H2SO4)	Sodium Thiosulfate	Sodium Hydroxide (NaOH)	Ascorbic Acid	Trizma	Other	40 CFR Appendix III to Part 257	40 CFR Appendix IV to Part 257	Additional MI Part 115 Metals	Total Suspended Solids (TSS)	~~See attached list.~~ AB	LLHG	Remarks/Notes	Possible Health Hazards?
33	8/12/26	1630	MW-12	N	GW	4	4		2							X	X	X	X		X		
34	8/12/26	1640	LLHGTB-08122026	—	W	1	1														X		
35	8/13/26	852	MW-33	N	GW	4	4		2							X	X	X	X		X		
36	8/13/26	1034	MW-03	N	GW	4	4		2							X	X	X	X		X		
37	8/13/26	1200	MW-04R	N	GW	4	4		2							X	X	X	X		X		
38	8/13/26	1015	MW-31	N	GW	4	4		2							X	X	X	X		X		
39	8/13/26	1210	MW-04	N	GW	4	4		2							X	X	X	X		X		
40	8/13/26	1330	SG-02	N	SW	4	4		2							X	X	X	X		X		
41	8/13/26	1400	SG-07	N	SW	4	4		2							X	X	X	X		X		
42	8/13/26	1430	LLHGTB-08132026	—	W	1	1														X		

Analysis Requested

Please Sign

	Released By	Date	Time	Received By
1)		8/14/26	0912	2)
3)				4)

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26H0718

HDR Michigan Inc.
Project Manager: Jon Mink
:

Sample Log In Checklist

	Original Observation	Corrected Temperature	IR-9 (CF: -0.2°C)	IR-12 (CF: -0.3°C)	IR-13 (CF: -0.6°C)	IR-14 (CF: -1.2°C)	SR1 (CF: -0.3°C)	SR2 (CF: -0.2°C)	Temp Blank	Client Sample
Date: 8/12/26										
Time: 0929										
Initials: MS										
Package Description: Cooler										
Package Temp °C	2.6	2.3		✓						
Representative Sample Temp °C	5.5	5.2		✓						✓

Sample Receipt

Yes No

- ☐ ☐ Received on ice or other coolant
- ☐ ☐ Ice still present upon receipt
- ☐ ☐ Custody seals present — ☐ Yes ☐ No Custody seals intact (if applicable)
- ☐ Trace Courier ☐ Client Drop-off ☐ UPS ☐ Fed Ex ☐ US Mail ☐ Other

Sample Condition

Yes No N/A

- ☑ ☐ ☐ All sample containers arrived unbroken and labeled
- ☑ ☐ ☐ Sufficient sample to run requested analyses
- ☑ ☐ ☐ Correct chemical preservative added to samples
- ☐ ☑ ☐ Samples preserved at Trace (if yes, fill in preservation information below)
  Preservation - Reagent:_____ LIMS ID:_____ Date/Time:_____
- ☑ ☐ ☐ Chemical preservation verified, check EMD pH test strip used (if applicable)
  ☑ pH 0-2.5 (Lot: HC446906) ☐ pH 11.0-13.0 (Lot: HC022540) ☐ Other
- ☐ ☐ ☑ Air bubbles absent from VOAs (no bubble greater than 6mm) _____

Chain of Custody (COC)

Yes No

- ☑ ☐ All bottle labels agree with COC
- ☑ ☐ COC filled out properly
- ☑ ☐ COC signed by client

Notes:

MW-30 MWT-18
MW-42
MW-07
MW-43
MW-20
MW-17
MW-18

Form 70-A.65
Effective 7/21/26

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26H0718

HDR Michigan Inc.
Project Manager: Jon Mink

Sample Log In Checklist

	Original Observation	Corrected Temperature	IR-9 (CF: -0.2°C)	IR-12 (CF: -0.3°C)	IR-13 (CF: -0.6°C)	IR-14 (CF: -1.2°C)	SR1 (CF: -0.3°C)	SR2 (CF: -0.2°C)	Temp Blank	Client Sample
Date: 03/12/26										
Time: 0944										
Initials: MJ										
Package Description: Cooler										
Package Temp °C	0.3	0.0		/						
Representative Sample Temp °C	12.0	11.7		/						/

Sample Receipt

Yes	No				
☒	☐	Received on ice or other coolant			
☒	☐	Ice still present upon receipt			
☐	☒	Custody seals present	☐ Yes ☐ No	Custody seals intact (if applicable)	
☐	☒	Trace Courier / Client Drop-off	☐ UPS	☐ Fed Ex	☐ US Mail ☐ Other

Sample Condition

Yes	No	N/A	
☒	☐	☐	All sample containers arrived unbroken and labeled
☒	☐	☐	Sufficient sample to run requested analyses
☒	☐	☐	Correct chemical preservative added to samples
☐	☒	☐	Samples preserved at Trace (if yes, fill in preservation information below)
			Preservation - Reagent:_____ LIMS ID:_____ Date/Time:_____
☒	☐	☐	Chemical preservation verified, check EMD pH test strip used (if applicable)
			☒ pH 0-2.5 (Lot: HC446906) ☐ pH 11.0-13.0 (Lot: HC022540) ☐ Other
☐	☐	☒	Air bubbles absent from VOAs (no bubble greater than 6mm) _____

Chain of Custody (COC)

Yes	No	
☒	☐	All bottle labels agree with COC
☐	☐	COC filled out properly
☒	☐	COC signed by client

Notes:

MW-01R
MW-13
MW-16

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26H0718

HDR Michigan Inc.
Project Manager: Jon Mink

Sample Log In Checklist

	Original Observation	Corrected Temperature	IR-9 (CF: -0.2°C)	IR-12 (CF: -0.3°C)	IR-13 (CF: -0.6°C)	IR-14 (CF: -1.2°C)	SR1 (CF: -0.3°C)	SR2 (CF: -0.2°C)	Temp Blank	Client Sample
Date: 8/2/26										
Time: 0947										
Initials: MT										
Package Description: Cooler										
Package Temp °C	0.3	0.0		/						
Representative Sample Temp °C	4.1	3.8		/						/

Sample Receipt

Yes No

- [x] [ ] Received on ice or other coolant
- [x] [ ] Ice still present upon receipt
- [ ] [x] Custody seals present — [ ] Yes [ ] No Custody seals intact (if applicable)
- [ ] Trace Courier [x] Client Drop-off — [ ] UPS [ ] Fed Ex [ ] US Mail [ ] Other

Sample Condition

Yes No N/A

- [x] [ ] [ ] All sample containers arrived unbroken and labeled
- [x] [ ] [ ] Sufficient sample to run requested analyses
- [x] [ ] [ ] Correct chemical preservative added to samples
- [ ] [x] [ ] Samples preserved at Trace (if yes, fill in preservation information below)
  Preservation - Reagent:_____ LIMS ID:_____ Date/Time:_____
- [x] [ ] [ ] Chemical preservation verified, check EMD pH test strip used (if applicable)
  [x] pH 0-2.5 (Lot: HC446906) [ ] pH 11.0-13.0 (Lot: HC022540) [ ] Other
- [x] [ ] [x] Air bubbles absent from VOAs (no bubble greater than 6mm) _____

Chain of Custody (COC)

Yes No

- [x] [ ] All bottle labels agree with COC
- [x] [ ] COC filled out properly
- [x] [ ] COC signed by client

Notes:

MW-09
MWT-10
MW-10
MW-41

Form 70-A.65
Effective 7/21/26

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www.trace-labs.com

26H0718

HDR Michigan Inc.
Project Manager: Jon Mink

Sample Log In Checklist

	Original Observation	Corrected Temperature	IR-9 (CF: -0.2°C)	IR-12 (CF: -0.3°C)	IR-13 (CF: -0.6°C)	IR-14 (CF: -1.2°C)	SR1 (CF: -0.3°C)	SR2 (CF: -0.2°C)	Temp Blank	Client Sample
Date: 08/12/26										
Time: 0944										
Initials: MJ										
Package Description: Cooler										
Package Temp °C	0.3	0.0		/						
Representative Sample Temp °C	12.0	11.7		/						/

Sample Receipt

Yes	No					
☑	☐	Received on ice or other coolant				
☑	☐	Ice still present upon receipt				
☐	☑	Custody seals present	☐ Yes	☐ No	Custody seals intact (if applicable)	
☐	☑	Trace Courier / Client Drop-off	☐ UPS	☐ Fed Ex	☐ US Mail	☐ Other

Sample Condition

Yes	No	N/A	
☑	☐	☐	All sample containers arrived unbroken and labeled
☑	☐	☐	Sufficient sample to run requested analyses
☑	☐	☐	Correct chemical preservative added to samples
☐	☑	☐	Samples preserved at Trace (if yes, fill in preservation information below)

Preservation - Reagent:_____ LIMS ID:_____ Date/Time:_____

☑	☐	☐	Chemical preservation verified, check EMD pH test strip used (if applicable)

☑ pH 0-2.5 (Lot: HC446906) ☐ pH 11.0-13.0 (Lot: HC022540) ☐ Other

☐	☐	☑	Air bubbles absent from VOAs (no bubble greater than 6mm) _____

Chain of Custody (COC)

Yes	No	
☑	☐	All bottle labels agree with COC
☑	☐	COC filled out properly
☑	☐	COC signed by client

Notes:

MW-01R
MW-13
MW-16

Form 70-A.65
Effective 7/21/26

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26H0718
HDR Michigan Inc.
Project Manager: Jon Mink

Sample Log In Checklist

	Original Observation	Corrected Temperature	IR-9 (CF: -0.2°C)	IR-12 (CF: -0.3°C)	IR-13 (CF: -0.6°C)	IR-14 (CF: -1.2°C)	SR1 (CF: -0.3°C)	SR2 (CF: -0.2°C)	Temp Blank	Client Sample
Date: 8/12/26										
Time: 0947										
Initials: MT										
Package Description: Cooler										
Package Temp °C	0.3	0.0		/						
Representative Sample Temp °C	4.1	3.8		/						/

Sample Receipt

Yes No

- [x] [ ] Received on ice or other coolant
- [x] [ ] Ice still present upon receipt
- [ ] [x] Custody seals present — [ ] Yes [ ] No Custody seals intact (if applicable)
- [ ] Trace Courier [x] Client Drop-off — [ ] UPS [ ] Fed Ex [ ] US Mail [ ] Other

Sample Condition

Yes No N/A

- [x] [ ] [ ] All sample containers arrived unbroken and labeled
- [x] [ ] [ ] Sufficient sample to run requested analyses
- [x] [ ] [ ] Correct chemical preservative added to samples
- [ ] [x] [ ] Samples preserved at Trace (if yes, fill in preservation information below)

  Preservation - Reagent:_____ LIMS ID:_____ Date/Time:_____

- [x] [ ] [ ] Chemical preservation verified, check EMD pH test strip used (if applicable)

  [x] pH 0-2.5 (Lot: HC446906) [ ] pH 11.0-13.0 (Lot: HC022540) [ ] Other

- [N/A] [ ] [x] Air bubbles absent from VOAs (no bubble greater than 6mm) _____

Chain of Custody (COC)

Yes No

- [x] [ ] All bottle labels agree with COC
- [x] [ ] COC filled out properly
- [x] [ ] COC signed by client

Notes:

MW-09
MWT-10
MW-10
MW-41

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Effective 7/21/26

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26H0718
HDR Michigan Inc.
Project Manager: Jon Mink

Sample Log In Checklist

	Original Observation	Corrected Temperature	IR-9 (CF: -0.2°C)	IR-12 (CF: -0.3°C)	IR-13 (CF: -0.6°C)	IR-14 (CF: -1.2°C)	SR1 (CF: -0.3°C)	SR2 (CF: -0.2°C)	Temp Blank	Client Sample
Date: 8/14/26										
Time: 11:04										
Initials: HM										
Package Description: Cooler										
Package Temp °C	-0.4	-1.0			✓					
Representative Sample Temp °C	6.4	6.2						✓	✓	

Sample Receipt

Yes No
- ☑ ☐ Received on ice or other coolant
- ☑ ☐ Ice still present upon receipt
- ☐ ☑ Custody seals present — ☐ Yes ☐ No Custody seals intact (if applicable)
- ☐ Trace Courier ☑ Client Drop-off ☐ UPS ☐ Fed Ex ☐ US Mail ☐ Other

Sample Condition

Yes No N/A
- ☑ ☐ ☐ All sample containers arrived unbroken and labeled
- ☑ ☐ ☐ Sufficient sample to run requested analyses
- ☑ ☐ ☐ Correct chemical preservative added to samples
- ☐ ☑ ☐ Samples preserved at Trace (if yes, fill in preservation information below)
  Preservation - Reagent:_____ LIMS ID:_____ Date/Time:_____
- ☑ ☐ ☐ Chemical preservation verified, check EMD pH test strip used (if applicable)
  ☑ pH 0-2.5 (Lot: HC446906) ☐ pH 11.0-13.0 (Lot: HC022540) ☐ Other
- ☐ ☐ ☑ Air bubbles absent from VOAs (no bubble greater than 6mm) _____

Chain of Custody (COC)

Yes No
- ☑ ☐ All bottle labels agree with COC
- ☑ ☐ COC filled out properly
- ☑ ☐ COC signed by client

Notes:

MW-12, MW-31, MW-64, SG-02, SG-07

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26H0718
HDR Michigan Inc.
Project Manager: Jon Mink

Sample Log In Checklist

	Original Observation	Corrected Temperature	IR-9 (CF: -0.2°C)	IR-12 (CF: -0.3°C)	IR-13 (CF: -0.6°C)	IR-14 (CF: -1.2°C)	SR1 (CF: -0.3°C)	SR2 (CF: -0.2°C)	Temp Blank	Client Sample
Date: 8/14/26										
Time: 11:23										
Initials: HM										
Package Description: Cooler										
Package Temp °C	0.2	-0.4			✓					
Representative Sample Temp °C	13.1	12.5			✓					✓

Sample Receipt

Yes No
- [x] [ ] Received on ice or other coolant
- [x] [ ] Ice still present upon receipt
- [ ] [x] Custody seals present — [ ] Yes [ ] No Custody seals intact (if applicable)
- [ ] Trace Courier [x] Client Drop-off [ ] UPS [ ] Fed Ex [ ] US Mail [ ] Other

Sample Condition

Yes No N/A
- [x] [ ] [ ] All sample containers arrived unbroken and labeled
- [x] [ ] [ ] Sufficient sample to run requested analyses
- [x] [ ] [ ] Correct chemical preservative added to samples
- [ ] [x] [ ] Samples preserved at Trace (if yes, fill in preservation information below)
  Preservation - Reagent:_____ LIMS ID:_____ Date/Time:_____
- [x] [ ] [ ] Chemical preservation verified, check EMD pH test strip used (if applicable)
  [x] pH 0-2.5 (Lot: HC446906) [ ] pH 11.0-13.0 (Lot: HC022540) [ ] Other
- [ ] [ ] [x] Air bubbles absent from VOAs (no bubble greater than 6mm) _____

Chain of Custody (COC)

Yes No
- [x] [ ] All bottle labels agree with COC
- [x] [ ] COC filled out properly
- [x] [ ] COC signed by client

Notes:

MW-39, MW-02, MW-11, MW-06

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Muskegon, MI 49444-2673

TRACE ANALYTICAL LABORATORIES, INC.

231-773-5998 Phone
888-979-4469 Fax
www.trace-labs.com

26H0718
HDR Michigan Inc.
Project Manager: Jon Mink

Sample Log In Checklist

	Original Observation	Corrected Temperature	IR-9 (CF: -0.2°C)	IR-12 (CF: -0.3°C)	IR-13 (CF: -0.6°C)	IR-14 (CF: -1.2°C)	SR1 (CF: -0.3°C)	SR2 (CF: -0.2°C)	Temp Blank	Client Sample
Date: 8/14/26										
Time: 11:50										
Initials: HM										
Package Description: Cooler										
Package Temp °C	0.0	-0.6			✓					
Representative Sample Temp °C	9.0	8.8						✓	✓	

Sample Receipt

Yes No
- ☑ ☐ Received on ice or other coolant
- ☑ ☐ Ice still present upon receipt
- ☐ ☑ Custody seals present — ☐ Yes ☐ No Custody seals intact (if applicable)
- ☐ Trace Courier ☑ Client Drop-off ☐ UPS ☐ Fed Ex ☐ US Mail ☐ Other

Sample Condition

Yes No N/A
- ☑ ☐ ☐ All sample containers arrived unbroken and labeled
- ☑ ☐ ☐ Sufficient sample to run requested analyses
- ☑ ☐ ☐ Correct chemical preservative added to samples
- ☐ ☑ ☐ Samples preserved at Trace (if yes, fill in preservation information below)
  Preservation - Reagent:_____ LIMS ID:_____ Date/Time:_____
- ☑ ☐ ☐ Chemical preservation verified, check EMD pH test strip used (if applicable)
  ☑ pH 0-2.5 (Lot: HC446906) ☐ pH 11.0-13.0 (Lot: HC022540) ☐ Other
- ☐ ☐ ☑ Air bubbles absent from VOAs (no bubble greater than 6mm) _____

Chain of Custody (COC)

Yes No
- ☑ ☐ All bottle labels agree with COC
- ☑ ☐ COC filled out properly
- ☑ ☐ COC signed by client

Notes:

MW-34, LLHGTB-08122026, MW-33, MW-03, MW-04R, LLHGTB-08132026

Form 70-A.65
Effective 7/21/26

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TRACE ANALYTICAL LABORATORIES, INC.

Sample Log In Checklist

26H0718
HDR Michigan Inc.
Project Manager: Jon Mink

	Original Observation	Corrected Temperature	IR-9 (CF: -0.2°C)	IR-12 (CF: -0.3°C)	IR-13 (CF: -0.6°C)	IR-14 (CF: -1.2°C)	SR1 (CF: -0.3°C)	SR2 (CF: -0.2°C)	Temp Blank	Client Sample
Date: 8/14/26										
Time: 10:20										
Initials: HM										
Package Description: Cooler										
Package Temp °C	0.0	-0.6			✓					
Representative Sample Temp °C	4.0	3.7					✓		✓	

Sample Receipt

Yes No

- [x] [ ] Received on ice or other coolant
- [x] [ ] Ice still present upon receipt
- [ ] [x] Custody seals present — [ ] Yes [ ] No Custody seals intact (if applicable)
- [ ] Trace Courier [x] Client Drop-off [ ] UPS [ ] Fed Ex [ ] US Mail [ ] Other

Sample Condition

Yes No N/A

- [x] [ ] [ ] All sample containers arrived unbroken and labeled
- [x] [ ] [ ] Sufficient sample to run requested analyses
- [x] [ ] [ ] Correct chemical preservative added to samples
- [ ] [x] [ ] Samples preserved at Trace (if yes, fill in preservation information below)
  Preservation - Reagent:_____ LIMS ID:_____ Date/Time:_____
- [x] [ ] [ ] Chemical preservation verified, check EMD pH test strip used (if applicable)
  [x] pH 0-2.5 (Lot: HC446906) [ ] pH 11.0-13.0 (Lot: HC022540) [ ] Other
- [ ] [ ] [x] Air bubbles absent from VOAs (no bubble greater than 6mm) _____

Chain of Custody (COC)

Yes No

- [x] [ ] All bottle labels agree with COC
- [x] [ ] COC filled out properly
- [x] [ ] COC signed by client

Notes:

MW-08, MW-19, MW-27, MW-28, MW-32

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August 28, 2026

Molly Reeves
HDR Michigan Inc.
1000 Oakbrook Dr., Suite 200
Ann Arbor, MI 48104

RE: Trace Project 26H0718
Client Project City of Grand Haven - Harbor Island

Enclosed are your analytical results. The results of this report relate only to the samples listed in the body of this report.

All reports were examined through Trace's validation process to ensure that requirements for quality and completeness were satisfied. All reported analytical results were obtained in accordance with the methods referenced on the reports. Every practical effort was made to meet the reporting limit specifications for this work, however, some results may have raised reporting limits to correct for percent solids.

If you have questions concerning this report, please contact me at 231.773.5998 or by email at jmink@trace-labs.com.

Sincerely,

Jon Mink
Senior Project Manager
Enclosures

PJLA Testing Accreditation# 1031

Wisconsin Accreditation No. FID: 998044080 / TNI EL V1:2016

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SAMPLE SUMMARY

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID	Sample ID	Matrix	Collected By	Date Collected	Date Received
26H0718-01	MW-41	Ground Water	AB/FDR	08/10/26 12:38	08/12/26 08:19
26H0718-02	MW-09	Ground Water	AB/FDR	08/10/26 13:46	08/12/26 08:19
26H0718-03	MW-10	Ground Water	AB/FDR	08/10/26 15:10	08/12/26 08:19
26H0718-04	MWT-10	Ground Water	AB/FDR	08/10/26 15:10	08/12/26 08:19
26H0718-05	MW-42	Ground Water	AB/FDR	08/10/26 15:15	08/12/26 08:19
26H0718-07	MW-30	Ground Water	AB/FDR	08/11/26 09:00	08/12/26 08:19
26H0718-08	MW-07	Ground Water	AB/FDR	08/11/26 10:15	08/12/26 08:19
26H0718-09	MW-43	Ground Water	AB/FDR	08/11/26 11:20	08/12/26 08:19
26H0718-10	MW-20	Ground Water	AB/FDR	08/11/26 12:45	08/12/26 08:19
26H0718-11	MW-17	Ground Water	AB/FDR	08/11/26 13:50	08/12/26 08:19
26H0718-12	MW-18	Ground Water	AB/FDR	08/11/26 15:05	08/12/26 08:19
26H0718-13	MWT-18	Ground Water	AB/FDR	08/11/26 15:30	08/12/26 08:19
26H0718-14	MW-37	Ground Water	AB/FDR	08/11/26 09:22	08/12/26 08:19
26H0718-15	MW-38	Ground Water	AB/FDR	08/11/26 09:50	08/12/26 08:19
26H0718-16	MW-36	Ground Water	AB/FDR	08/11/26 10:38	08/12/26 08:19
26H0718-17	MW-01RB	Ground Water	AB/FDR	08/11/26 12:40	08/12/26 08:19
26H0718-18	MW-01R	Ground Water	AB/FDR	08/11/26 13:40	08/12/26 08:19
26H0718-19	MW-13	Ground Water	AB/FDR	08/11/26 15:02	08/12/26 08:19
26H0718-20	MW-16	Ground Water	AB/FDR	08/11/26 16:30	08/12/26 08:19
26H0718-21	MWT-16	Ground Water	AB/FDR	08/11/26 16:30	08/12/26 08:19
26H0718-23	MW-39	Ground Water	AB/FDR	08/12/26 10:00	08/14/26 09:12
26H0718-24	MW-02	Ground Water	AB/FDR	08/12/26 11:44	08/14/26 09:12
26H0718-25	MW-11	Ground Water	AB/FDR	08/12/26 13:40	08/14/26 09:12
26H0718-26	MW-06	Ground Water	AB/FDR	08/12/26 14:48	08/14/26 09:12
26H0718-27	MW-34	Ground Water	AB/FDR	08/12/26 16:02	08/14/26 09:12
26H0718-28	MW-19	Ground Water	AB/FDR	08/12/26 09:35	08/14/26 09:12
26H0718-29	MW-32	Ground Water	AB/FDR	08/12/26 10:40	08/14/26 09:12
26H0718-30	MW-08	Ground Water	AB/FDR	08/12/26 12:00	08/14/26 09:12
26H0718-31	MW-28	Ground Water	AB/FDR	08/12/26 13:55	08/14/26 09:12
26H0718-32	MW-27	Ground Water	AB/FDR	08/12/26 15:10	08/14/26 09:12
26H0718-33	MW-12	Ground Water	AB/FDR	08/12/26 16:30	08/14/26 09:12
26H0718-35	MW-33	Ground Water	AB/FDR	08/13/26 08:52	08/14/26 09:12
26H0718-36	MW-03	Ground Water	AB/FDR	08/13/26 10:34	08/14/26 09:12
26H0718-37	MW-04R	Ground Water	AB/FDR	08/13/26 12:00	08/14/26 09:12
26H0718-38	MW-31	Ground Water	AB/FDR	08/13/26 10:15	08/14/26 09:12

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26H0718-39	MW-04	Ground Water	AB/FDR	08/13/26 10:10	08/14/26 09:12
26H0718-40	SG-02	Surface Water	AB/FDR	08/13/26 13:30	08/14/26 09:12
26H0718-41	SG-07	Surface Water	AB/FDR	08/13/26 14:00	08/14/26 09:12

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-01 | Date Collected: 08/10/26 12:38 | Matrix: Ground Water
Sample ID: MW-41 | Date Received: 08/12/26 08:19

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T187659										
Iron	**4.7**	**mg/L**	**0.050**	**1**	**08/24/26**	**jrc**	**08/25/26**	**jma**		**0.0075**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T187659										
Copper	**0.0034**	**mg/L**	**0.00025**	**1**	**08/24/26**	**jrc**	**08/25/26**	**cma**		**0.00020**
Nickel	**0.0076**	**mg/L**	**0.0012**	**1**	**08/24/26**	**jrc**	**08/25/26**	**cma**		**0.00015**
Silver	<0.000050	mg/L	0.000050	1	08/24/26	jrc	08/25/26	cma		0.000050
Vanadium	**0.0052**	**mg/L**	**0.0012**	**1**	**08/24/26**	**jrc**	**08/25/26**	**cma**		**0.00028**
Zinc	**0.011**	**mg/L**	**0.0012**	**1**	**08/24/26**	**jrc**	**08/25/26**	**cma**		**0.00048**

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-02 | Date Collected: 08/10/26 13:46 | Matrix: Ground Water
Sample ID: MW-09 | Date Received: 08/12/26 08:19

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T187589										
Iron	**23**	**mg/L**	**0.050**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.0075**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T187589										
Copper	**0.0016**	**mg/L**	**0.00025**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00020**
Nickel	**0.0047**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00015**
Silver	<0.000050	mg/L	0.000050	1	08/21/26	kra	08/24/26	cma		0.000050
Vanadium	**0.00071**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**	**J**	**0.00028**
Zinc	**0.012**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00048**

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-03 Date Collected: 08/10/26 15:10 Matrix: Ground Water
Sample ID: MW-10 Date Received: 08/12/26 08:19

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T187589										
Iron	**2.3**	**mg/L**	**0.050**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.0075**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T187589										
Copper	**0.0012**	**mg/L**	**0.00025**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00020**
Nickel	**0.0015**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00015**
Silver	<0.000050	mg/L	0.000050	1	08/21/26	kra	08/24/26	cma		0.000050
Vanadium	**0.0015**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00028**
Zinc	**0.010**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00048**

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-04 Date Collected: 08/10/26 15:10 Matrix: Ground Water
Sample ID: MWT-10 Date Received: 08/12/26 08:19

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T187589										
Iron	**2.3**	**mg/L**	**0.050**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.0075**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T187589										
Copper	**0.00022**	**mg/L**	**0.00025**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**	**J**	**0.00020**
Nickel	**0.0011**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**	**J**	**0.00015**
Silver	<0.000050	mg/L	0.000050	1	08/21/26	kra	08/24/26	cma		0.000050
Vanadium	**0.0014**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00028**
Zinc	**0.0070**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00048**

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-05 | Date Collected: 08/10/26 15:15 | Matrix: Ground Water
Sample ID: MW-42 | Date Received: 08/12/26 08:19

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T187589										
Iron	**14**	**mg/L**	**0.050**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.0075**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T187589										
Copper	**0.017**	**mg/L**	**0.00025**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00020**
Nickel	**0.50**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00015**
Silver	**0.000054**	**mg/L**	**0.000050**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.000050**
Vanadium	**0.00039**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**	**J**	**0.00028**
Zinc	**0.61**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00048**

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-07 | Date Collected: 08/11/26 09:00 | Matrix: Ground Water
Sample ID: MW-30 | Date Received: 08/12/26 08:19

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T187589										
Iron	**2.5**	**mg/L**	**0.050**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.0075**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T187589										
Copper	<0.00020	mg/L	0.00025	1	08/21/26	kra	08/24/26	cma		0.00020
Nickel	**0.00049**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**	**J**	**0.00015**
Silver	<0.000050	mg/L	0.000050	1	08/21/26	kra	08/24/26	cma		0.000050
Vanadium	**0.00042**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**	**J**	**0.00028**
Zinc	**0.0066**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00048**

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-08 Date Collected: 08/11/26 10:15 Matrix: Ground Water
Sample ID: MW-07 Date Received: 08/12/26 08:19

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T187589										
Iron	**22**	**mg/L**	**0.050**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.0075**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T187589										
Copper	<0.00020	mg/L	0.00025	1	08/21/26	kra	08/24/26	cma		0.00020
Nickel	**0.00024**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**	**J**	**0.00015**
Silver	<0.000050	mg/L	0.000050	1	08/21/26	kra	08/24/26	cma		0.000050
Vanadium	**0.00084**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**	**J**	**0.00028**
Zinc	**0.0067**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00048**

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-09 | Date Collected: 08/11/26 11:20 | Matrix: Ground Water
Sample ID: MW-43 | Date Received: 08/12/26 08:19

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T187589										
Iron	**1.5**	**mg/L**	**0.050**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.0075**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T187589										
Copper	**0.00058**	**mg/L**	**0.00025**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00020**
Nickel	**0.082**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00015**
Silver	<0.000050	mg/L	0.000050	1	08/21/26	kra	08/24/26	cma		0.000050
Vanadium	**0.00041**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**	**J**	**0.00028**
Zinc	**0.017**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00048**

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-10 | Date Collected: 08/11/26 12:45 | Matrix: Ground Water
Sample ID: MW-20 | Date Received: 08/12/26 08:19

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T187589										
Iron	**13**	**mg/L**	**0.050**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.0075**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T187589										
Copper	**0.0012**	**mg/L**	**0.00025**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00020**
Nickel	**0.012**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00015**
Silver	<0.000050	mg/L	0.000050	1	08/21/26	kra	08/24/26	cma		0.000050
Vanadium	<0.00028	mg/L	0.0012	1	08/21/26	kra	08/24/26	cma		0.00028
Zinc	**0.031**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00048**

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-11 | Date Collected: 08/11/26 13:50 | Matrix: Ground Water
Sample ID: MW-17 | Date Received: 08/12/26 08:19

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T187589										
Iron	**4.7**	**mg/L**	**0.050**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.0075**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T187589										
Copper	**0.00020**	**mg/L**	**0.00025**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**	**J**	**0.00020**
Nickel	**0.00081**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**	**J**	**0.00015**
Silver	<0.000050	mg/L	0.000050	1	08/21/26	kra	08/24/26	cma		0.000050
Vanadium	**0.00052**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**	**J**	**0.00028**
Zinc	**0.0076**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00048**

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-12 | Date Collected: 08/11/26 15:05 | Matrix: Ground Water
Sample ID: MW-18 | Date Received: 08/12/26 08:19

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T187589										
Iron	**5.2**	**mg/L**	**0.050**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.0075**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T187589										
Copper	**0.0015**	**mg/L**	**0.00025**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00020**
Nickel	**0.0079**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00015**
Silver	<0.000050	mg/L	0.000050	1	08/21/26	kra	08/24/26	cma		0.000050
Vanadium	<0.00028	mg/L	0.0012	1	08/21/26	kra	08/24/26	cma		0.00028
Zinc	**0.16**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00048**

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-13 Date Collected: 08/11/26 15:30 Matrix: Ground Water
Sample ID: MWT-18 Date Received: 08/12/26 08:19

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T187589										
Iron	**5.4**	**mg/L**	**0.050**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.0075**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T187589										
Copper	**0.0016**	**mg/L**	**0.00025**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00020**
Nickel	**0.0081**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00015**
Silver	<0.000050	mg/L	0.000050	1	08/21/26	kra	08/24/26	cma		0.000050
Vanadium	<0.00028	mg/L	0.0012	1	08/21/26	kra	08/24/26	cma		0.00028
Zinc	**0.17**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00048**

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-14 | Date Collected: 08/11/26 09:22 | Matrix: Ground Water
Sample ID: MW-37 | Date Received: 08/12/26 08:19

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T187589										
Iron	**0.054**	**mg/L**	**0.050**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.0075**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T187589										
Copper	**0.014**	**mg/L**	**0.00025**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00020**
Nickel	**0.0032**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00015**
Silver	<0.000050	mg/L	0.000050	1	08/21/26	kra	08/24/26	cma		0.000050
Vanadium	**0.00038**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**	**J**	**0.00028**
Zinc	**0.028**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00048**

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-15 | Date Collected: 08/11/26 09:50 | Matrix: Ground Water
Sample ID: MW-38 | Date Received: 08/12/26 08:19

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T187589										
Iron	**1.0**	**mg/L**	**0.050**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.0075**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T187589										
Copper	**0.026**	**mg/L**	**0.00025**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00020**
Nickel	**0.0097**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00015**
Silver	**0.00019**	**mg/L**	**0.000050**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.000050**
Vanadium	**0.013**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00028**
Zinc	**0.027**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00048**

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-16 | Date Collected: 08/11/26 10:38 | Matrix: Ground Water
Sample ID: MW-36 | Date Received: 08/12/26 08:19

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T187589										
Iron	**0.28**	**mg/L**	**0.050**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.0075**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T187589										
Copper	**0.0025**	**mg/L**	**0.00025**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00020**
Nickel	**0.0025**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00015**
Silver	**0.000058**	**mg/L**	**0.000050**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.000050**
Vanadium	**0.0027**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00028**
Zinc	**0.0092**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00048**

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-17 | Date Collected: 08/11/26 12:40 | Matrix: Ground Water
Sample ID: MW-01RB | Date Received: 08/12/26 08:19

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T187589										
Iron	**17**	**mg/L**	**0.050**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.0075**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T187589										
Copper	**0.00023**	**mg/L**	**0.00025**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**	**J**	**0.00020**
Nickel	**0.00060**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**	**J**	**0.00015**
Silver	<0.000050	mg/L	0.000050	1	08/21/26	kra	08/24/26	cma		0.000050
Vanadium	**0.00099**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**	**J**	**0.00028**
Zinc	**0.0079**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00048**

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-18 Date Collected: 08/11/26 13:40 Matrix: Ground Water
Sample ID: MW-01R Date Received: 08/12/26 08:19

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T187589										
Iron	**0.55**	**mg/L**	**0.050**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.0075**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T187589										
Copper	**0.00048**	**mg/L**	**0.00025**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00020**
Nickel	**0.0032**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00015**
Silver	<0.000050	mg/L	0.000050	1	08/21/26	kra	08/24/26	cma		0.000050
Vanadium	**0.0047**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00028**
Zinc	**0.011**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00048**

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-19 | Date Collected: 08/11/26 15:02 | Matrix: Ground Water
Sample ID: MW-13 | Date Received: 08/12/26 08:19

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T187589										
Iron	**0.13**	**mg/L**	**0.050**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.0075**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T187589										
Copper	**0.00024**	**mg/L**	**0.00025**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**	**J**	**0.00020**
Nickel	**0.0022**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00015**
Silver	<0.000050	mg/L	0.000050	1	08/21/26	kra	08/24/26	cma		0.000050
Vanadium	**0.00067**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**	**J**	**0.00028**
Zinc	**0.0068**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00048**

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-20 Date Collected: 08/11/26 16:30 Matrix: Ground Water
Sample ID: MW-16 Date Received: 08/12/26 08:19

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T187589										
Iron	**5.5**	**mg/L**	**0.050**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.0075**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T187589										
Copper	<0.00020	mg/L	0.00025	1	08/21/26	kra	08/24/26	cma		0.00020
Nickel	**0.0054**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00015**
Silver	<0.000050	mg/L	0.000050	1	08/21/26	kra	08/24/26	cma		0.000050
Vanadium	**0.00094**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**	**J**	**0.00028**
Zinc	**0.0076**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00048**

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-21 Date Collected: 08/11/26 16:30 Matrix: Ground Water
Sample ID: MWT-16 Date Received: 08/12/26 08:19

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T187589										
Iron	**5.6**	**mg/L**	**0.050**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.0075**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T187589										
Copper	**0.00028**	**mg/L**	**0.00025**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00020**
Nickel	**0.0022**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00015**
Silver	<0.000050	mg/L	0.000050	1	08/21/26	kra	08/24/26	cma		0.000050
Vanadium	**0.00092**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**	**J**	**0.00028**
Zinc	**0.0070**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00048**

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-23 | Date Collected: 08/12/26 10:00 | Matrix: Ground Water
Sample ID: MW-39 | Date Received: 08/14/26 09:12

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T187536										
Iron	**7.2**	**mg/L**	**0.050**	**1**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.0075**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T187536										
Copper	**0.00067**	**mg/L**	**0.00025**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00020**
Nickel	**0.0014**	**mg/L**	**0.0012**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00015**
Silver	<0.000050	mg/L	0.000050	1	08/20/26	kra	08/21/26	cma		0.000050
Vanadium	**0.00066**	**mg/L**	**0.0012**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**	**J**	**0.00028**
Zinc	**0.019**	**mg/L**	**0.0012**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00048**

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-24 Date Collected: 08/12/26 11:44 Matrix: Ground Water
Sample ID: MW-02 Date Received: 08/14/26 09:12

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T187589										
Iron	**24**	**mg/L**	**0.050**	**1**	**08/21/26**	**kra**	**08/27/26**	**jma**		**0.0075**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T187589										
Copper	**0.0011**	**mg/L**	**0.00025**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00020**
Nickel	**0.015**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00015**
Silver	<0.000050	mg/L	0.000050	1	08/21/26	kra	08/24/26	cma		0.000050
Vanadium	**0.0024**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00028**
Zinc	**0.0082**	**mg/L**	**0.0012**	**1**	**08/21/26**	**kra**	**08/24/26**	**cma**		**0.00048**

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-25 Date Collected: 08/12/26 13:40 Matrix: Ground Water
Sample ID: MW-11 Date Received: 08/14/26 09:12

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T187536										
Iron	**6.1**	**mg/L**	**0.050**	**1**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.0075**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T187536										
Copper	**0.00036**	**mg/L**	**0.00025**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00020**
Nickel	**0.0011**	**mg/L**	**0.0012**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**	**J**	**0.00015**
Silver	<0.000050	mg/L	0.000050	1	08/20/26	kra	08/21/26	cma		0.000050
Vanadium	**0.00051**	**mg/L**	**0.0012**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**	**J**	**0.00028**
Zinc	**0.049**	**mg/L**	**0.0012**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00048**

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-26 | Date Collected: 08/12/26 14:48 | Matrix: Ground Water
Sample ID: MW-06 | Date Received: 08/14/26 09:12

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T187536										
Iron	**1.9**	**mg/L**	**0.050**	**1**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.0075**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T187536										
Copper	**0.00042**	**mg/L**	**0.00025**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00020**
Nickel	**0.00063**	**mg/L**	**0.0012**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**	**J**	**0.00015**
Silver	<0.000050	mg/L	0.000050	1	08/20/26	kra	08/21/26	cma		0.000050
Vanadium	**0.00046**	**mg/L**	**0.0012**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**	**J**	**0.00028**
Zinc	**0.056**	**mg/L**	**0.0012**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00048**

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-27 Date Collected: 08/12/26 16:02 Matrix: Ground Water
Sample ID: MW-34 Date Received: 08/14/26 09:12

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T187536										
Iron	**59**	**mg/L**	**0.050**	**1**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.0075**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T187536										
Copper	**0.00049**	**mg/L**	**0.00025**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00020**
Nickel	**0.0022**	**mg/L**	**0.0012**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00015**
Silver	<0.000050	mg/L	0.000050	1	08/20/26	kra	08/21/26	cma		0.000050
Vanadium	**0.00084**	**mg/L**	**0.0012**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**	**J**	**0.00028**
Zinc	**0.036**	**mg/L**	**0.0012**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00048**

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-28 Date Collected: 08/12/26 09:35 Matrix: Ground Water
Sample ID: MW-19 Date Received: 08/14/26 09:12

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T187536										
Iron	**11**	**mg/L**	**0.050**	**1**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.0075**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T187536										
Copper	<0.00020	mg/L	0.00025	1	08/20/26	kra	08/21/26	cma		0.00020
Nickel	**0.0017**	**mg/L**	**0.0012**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00015**
Silver	<0.000050	mg/L	0.000050	1	08/20/26	kra	08/21/26	cma		0.000050
Vanadium	**0.00031**	**mg/L**	**0.0012**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**	**J**	**0.00028**
Zinc	**0.0075**	**mg/L**	**0.0012**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00048**

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-29 Date Collected: 08/12/26 10:40 Matrix: Ground Water
Sample ID: MW-32 Date Received: 08/14/26 09:12

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T187536										
Iron	**15**	**mg/L**	**0.050**	**1**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.0075**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T187536										
Copper	<0.00020	mg/L	0.00025	1	08/20/26	kra	08/21/26	cma		0.00020
Nickel	**0.0010**	**mg/L**	**0.0012**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**	**J**	**0.00015**
Silver	<0.000050	mg/L	0.000050	1	08/20/26	kra	08/21/26	cma		0.000050
Vanadium	<0.00028	mg/L	0.0012	1	08/20/26	kra	08/21/26	cma		0.00028
Zinc	**0.027**	**mg/L**	**0.0012**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00048**

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-30 Date Collected: 08/12/26 12:00 Matrix: Ground Water
Sample ID: MW-08 Date Received: 08/14/26 09:12

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T187536										
Iron	**6.8**	**mg/L**	**0.050**	**1**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.0075**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T187536										
Copper	**0.00036**	**mg/L**	**0.00025**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00020**
Nickel	**0.0021**	**mg/L**	**0.0012**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00015**
Silver	<0.000050	mg/L	0.000050	1	08/20/26	kra	08/21/26	cma		0.000050
Vanadium	<0.00028	mg/L	0.0012	1	08/20/26	kra	08/21/26	cma		0.00028
Zinc	**0.10**	**mg/L**	**0.0012**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00048**

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-31 | Date Collected: 08/12/26 13:55 | Matrix: Ground Water
Sample ID: MW-28 | Date Received: 08/14/26 09:12

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T187536										
Iron	**43**	**mg/L**	**0.050**	**1**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.0075**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T187536										
Copper	**0.0038**	**mg/L**	**0.00025**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00020**
Nickel	**0.0041**	**mg/L**	**0.0012**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00015**
Silver	<0.000050	mg/L	0.000050	1	08/20/26	kra	08/21/26	cma		0.000050
Vanadium	**0.0012**	**mg/L**	**0.0012**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00028**
Zinc	**0.063**	**mg/L**	**0.0012**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00048**

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-32 Date Collected: 08/12/26 15:10 Matrix: Ground Water
Sample ID: MW-27 Date Received: 08/14/26 09:12

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T187536										
Iron	**5.3**	**mg/L**	**0.050**	**1**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.0075**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T187536										
Copper	<0.00020	mg/L	0.00025	1	08/20/26	kra	08/21/26	cma		0.00020
Nickel	**0.00052**	**mg/L**	**0.0012**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**	**J**	**0.00015**
Silver	<0.000050	mg/L	0.000050	1	08/20/26	kra	08/21/26	cma		0.000050
Vanadium	**0.0012**	**mg/L**	**0.0012**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00028**
Zinc	**0.018**	**mg/L**	**0.0012**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00048**

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-33 Date Collected: 08/12/26 16:30 Matrix: Ground Water
Sample ID: MW-12 Date Received: 08/14/26 09:12

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T187536										
Iron	**0.22**	**mg/L**	**0.050**	**1**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.0075**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T187536										
Copper	**0.00090**	**mg/L**	**0.00025**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00020**
Nickel	**0.0019**	**mg/L**	**0.0012**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00015**
Silver	<0.000050	mg/L	0.000050	1	08/20/26	kra	08/21/26	cma		0.000050
Vanadium	**0.00044**	**mg/L**	**0.0012**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**	**J**	**0.00028**
Zinc	**0.019**	**mg/L**	**0.0012**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00048**

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-35 Date Collected: 08/13/26 08:52 Matrix: Ground Water
Sample ID: MW-33 Date Received: 08/14/26 09:12

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T187536										
Iron	**16**	**mg/L**	**0.050**	**1**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.0075**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T187536										
Copper	**0.00049**	**mg/L**	**0.00025**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00020**
Nickel	**0.016**	**mg/L**	**0.0012**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00015**
Silver	<0.000050	mg/L	0.000050	1	08/20/26	kra	08/21/26	cma		0.000050
Vanadium	**0.0013**	**mg/L**	**0.0012**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00028**
Zinc	**0.016**	**mg/L**	**0.0012**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00048**

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-36 | Date Collected: 08/13/26 10:34 | Matrix: Ground Water
Sample ID: MW-03 | Date Received: 08/14/26 09:12

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T187536										
Iron	**0.11**	**mg/L**	**0.050**	**1**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.0075**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T187536										
Copper	**0.00042**	**mg/L**	**0.00025**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00020**
Nickel	**0.0011**	**mg/L**	**0.0012**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**	**J**	**0.00015**
Silver	<0.000050	mg/L	0.000050	1	08/20/26	kra	08/21/26	cma		0.000050
Vanadium	**0.00095**	**mg/L**	**0.0012**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**	**J**	**0.00028**
Zinc	**0.022**	**mg/L**	**0.0012**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00048**

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-37 Date Collected: 08/13/26 12:00 Matrix: Ground Water
Sample ID: MW-04R Date Received: 08/14/26 09:12

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T187536										
Iron	**4.9**	**mg/L**	**0.050**	**1**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.0075**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T187536										
Copper	<0.00020	mg/L	0.00025	1	08/20/26	kra	08/21/26	cma		0.00020
Nickel	**0.0021**	**mg/L**	**0.0012**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00015**
Silver	<0.000050	mg/L	0.000050	1	08/20/26	kra	08/21/26	cma		0.000050
Vanadium	**0.00041**	**mg/L**	**0.0012**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**	**J**	**0.00028**
Zinc	**0.017**	**mg/L**	**0.0012**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00048**

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www.trace-labs.com

ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-38 Date Collected: 08/13/26 10:15 Matrix: Ground Water
Sample ID: MW-31 Date Received: 08/14/26 09:12

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T187536										
Iron	**0.51**	**mg/L**	**0.050**	**1**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.0075**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T187536										
Copper	**0.0012**	**mg/L**	**0.00025**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00020**
Nickel	**0.17**	**mg/L**	**0.0012**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00015**
Silver	<0.000050	mg/L	0.000050	1	08/20/26	kra	08/21/26	cma		0.000050
Vanadium	**0.00074**	**mg/L**	**0.0012**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**	**J**	**0.00028**
Zinc	**0.023**	**mg/L**	**0.0012**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00048**

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-39 Date Collected: 08/13/26 10:10 Matrix: Ground Water
Sample ID: MW-04 Date Received: 08/14/26 09:12

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T187536										
Iron	**4.3**	**mg/L**	**0.050**	**1**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.0075**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T187536										
Copper	<0.00020	mg/L	0.00025	1	08/20/26	kra	08/21/26	cma		0.00020
Nickel	**0.0042**	**mg/L**	**0.0012**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00015**
Silver	<0.000050	mg/L	0.000050	1	08/20/26	kra	08/21/26	cma		0.000050
Vanadium	**0.00049**	**mg/L**	**0.0012**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**	**J**	**0.00028**
Zinc	**0.011**	**mg/L**	**0.0012**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00048**

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-40 Date Collected: 08/13/26 13:30 Matrix: Surface Water
Sample ID: SG-02 Date Received: 08/14/26 09:12

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T187536										
Iron	**0.34**	**mg/L**	**0.050**	**1**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.0075**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T187536										
Copper	**0.012**	**mg/L**	**0.00025**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00020**
Nickel	**0.0025**	**mg/L**	**0.0012**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00015**
Silver	<0.000050	mg/L	0.000050	1	08/20/26	kra	08/21/26	cma		0.000050
Vanadium	**0.00085**	**mg/L**	**0.0012**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**	**J**	**0.00028**
Zinc	**0.021**	**mg/L**	**0.0012**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00048**

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ANALYTICAL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26H0718-41 Date Collected: 08/13/26 14:00 Matrix: Surface Water
Sample ID: SG-07 Date Received: 08/14/26 09:12

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T187536										
Iron	**0.20**	**mg/L**	**0.050**	**1**	**08/20/26**	**kra**	**08/25/26**	**jma**		**0.0075**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T187536										
Copper	**0.0020**	**mg/L**	**0.00025**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00020**
Nickel	**0.0011**	**mg/L**	**0.0012**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**	**J**	**0.00015**
Silver	<0.000050	mg/L	0.000050	1	08/20/26	kra	08/21/26	cma		0.000050
Vanadium	**0.00083**	**mg/L**	**0.0012**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**	**J**	**0.00028**
Zinc	**0.010**	**mg/L**	**0.0012**	**1**	**08/20/26**	**kra**	**08/21/26**	**cma**		**0.00048**

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QUALITY CONTROL RESULTS

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T187536
QC Batch Method: EPA 200.2
Analysis Description: Iron, Total
Analysis Method: EPA 200.7 Rev. 4.4

METHOD BLANK: T187536-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Iron	mg/L	<0.050	0.050	

LABORATORY CONTROL SAMPLE: T187536-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Iron	mg/L	16.00	15.5	97	85-115	

MATRIX SPIKE: T187536-MS2 Original: **26H0718-23**

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Unit	Notes
Iron	mg/L	7.20	16.00	23.8	104	70-130	

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T187589
QC Batch Method: EPA 200.2
Analysis Description: Iron, Total
Analysis Method: EPA 200.7 Rev. 4.4

METHOD BLANK: T187589-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Iron	mg/L	<0.050	0.050	

LABORATORY CONTROL SAMPLE: T187589-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Iron	mg/L	16.00	15.5	97	85-115	

MATRIX SPIKE: T187589-MS1 Original: **26H0718-20**

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Unit	Notes
Iron	mg/L	5.53	16.00	21.1	97	70-130	

MATRIX SPIKE: T187589-MS2 Original: **26H0718-02**

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Unit	Notes

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MATRIX SPIKE: T187589-MS2 Original: **26H0718-02**

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Unit	Notes
Iron	mg/L	23.0	16.00	38.6	97	70-130	

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T187659
QC Batch Method: EPA 200.2
Analysis Description: Iron, Total
Analysis Method: EPA 200.7 Rev. 4.4

METHOD BLANK: T187659-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Iron	mg/L	<0.050	0.050	

LABORATORY CONTROL SAMPLE: T187659-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Iron	mg/L	16.00	15.5	97	85-115	

MATRIX SPIKE: T187659-MS2 Original: **26H0718-01**

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Unit	Notes
Iron	mg/L	4.68	16.00	19.6	93	70-130	

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T187536
QC Batch Method: EPA 200.2
Analysis Description: Nickel, Total
Analysis Method: EPA 200.8 Rev. 5.4

METHOD BLANK: T187536-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Silver	mg/L	<0.000050	0.000050	
Copper	mg/L	<0.00025	0.00025	
Nickel	mg/L	<0.0012	0.0012	
Vanadium	mg/L	<0.0012	0.0012	
Zinc	mg/L	<0.0012	0.0012	

LABORATORY CONTROL SAMPLE: T187536-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Silver	mg/L	0.05000	0.0508	102	85-115	

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LABORATORY CONTROL SAMPLE: T187536-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Copper	mg/L	1.600	1.35	85	85-115	
Nickel	mg/L	1.600	1.38	86	85-115	
Vanadium	mg/L	1.600	1.47	92	85-115	
Zinc	mg/L	1.600	1.40	87	85-115	

MATRIX SPIKE: T187536-MS2 Original: **26H0718-23**

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Unit	Notes
Silver	mg/L	0	0.05000	0.0491	98	70-130	
Copper	mg/L	0	1.600	1.23	77	70-130	
Nickel	mg/L	0.00135	1.600	1.26	79	70-130	
Vanadium	mg/L	0	1.600	1.51	95	70-130	
Zinc	mg/L	0.0185	1.600	1.35	83	70-130	

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T187589
QC Batch Method: EPA 200.2

Analysis Description: Copper, Total
Analysis Method: EPA 200.8 Rev. 5.4

METHOD BLANK: T187589-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Silver	mg/L	<0.000050	0.000050	
Copper	mg/L	<0.00025	0.00025	
Nickel	mg/L	<0.0012	0.0012	
Vanadium	mg/L	<0.0012	0.0012	
Zinc	mg/L	<0.0012	0.0012	

LABORATORY CONTROL SAMPLE: T187589-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Silver	mg/L	0.05000	0.0535	107	85-115	
Copper	mg/L	1.600	1.44	90	85-115	
Nickel	mg/L	1.600	1.49	93	85-115	
Vanadium	mg/L	1.600	1.58	99	85-115	
Zinc	mg/L	1.600	1.50	94	85-115	

MATRIX SPIKE: T187589-MS1 Original: **26H0718-20**

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Unit	Notes

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MATRIX SPIKE: T187589-MS1 Original: **26H0718-20**

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Unit	Notes
Silver	mg/L	0	0.05000	0.0523	105	70-130	
Copper	mg/L	0	1.600	1.37	86	70-130	
Nickel	mg/L	0.00542	1.600	1.44	90	70-130	
Vanadium	mg/L	0	1.600	1.64	102	70-130	
Zinc	mg/L	0.00757	1.600	1.40	87	70-130	

MATRIX SPIKE: T187589-MS2 Original: **26H0718-02**

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Unit	Notes
Silver	mg/L	0	0.05000	0.0494	99	70-130	
Copper	mg/L	0.00165	1.600	1.37	86	70-130	
Nickel	mg/L	0.00473	1.600	1.45	90	70-130	
Vanadium	mg/L	0	1.600	1.76	110	70-130	
Zinc	mg/L	0.0118	1.600	1.31	81	70-130	

Trace Project ID: 26H0718
Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T187659
QC Batch Method: EPA 200.2

Analysis Description: Vanadium, Total
Analysis Method: EPA 200.8 Rev. 5.4

METHOD BLANK: T187659-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Silver	mg/L	<0.000050	0.000050	
Copper	mg/L	<0.00025	0.00025	
Nickel	mg/L	<0.0012	0.0012	
Vanadium	mg/L	<0.0012	0.0012	
Zinc	mg/L	<0.0012	0.0012	

LABORATORY CONTROL SAMPLE: T187659-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Silver	mg/L	0.05000	0.0531	106	85-115	
Copper	mg/L	1.600	1.46	91	85-115	
Nickel	mg/L	1.600	1.44	90	85-115	
Vanadium	mg/L	1.600	1.52	95	85-115	
Zinc	mg/L	1.600	1.44	90	85-115	

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MATRIX SPIKE: T187659-MS2 Original: **26H0718-01**

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Unit	Notes
Silver	mg/L	0	0.05000	0.0506	101	70-130	
Copper	mg/L	0.00336	1.600	1.35	84	70-130	
Nickel	mg/L	0.00756	1.600	1.33	83	70-130	
Vanadium	mg/L	0.00520	1.600	1.49	93	70-130	
Zinc	mg/L	0.0110	1.600	1.28	80	70-130	

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AN EXPLANATION OF TERMS AND SYMBOLS WHICH MAY OCCUR IN THIS REPORT

DEFINITIONS

LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MS	Matrix Spike
MSD	Matrix Spike Duplicate
RPD	Relative Percent Difference
DUP	Matrix Duplicate
LOQ	Limit of Quantitation
LOD	Limit of Detection
TIC	Tentatively Identified Compound
<, ND or U	Indicates the compound was analyzed for but not detected
*	Indicates a result that exceeds its associated MCL or Surrogate control limits
N	Indicates that the compound has not been evaluated by NELAC
NA	Indicates that the compound is not available.

NOTE: Samples for volatiles that have been extracted with a water miscible solvent were corrected for the total volume of the solvent/water mixture.
Solid matrices Method Blanks are at 100% solids as such results are the same wet or dry.

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CHAIN-OF-CUSTODY RECORD

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Page 1 of 3

Trace ID No. 26H0718

Report Results To:

Company Name: HDR, Inc.
Report To: Molly Reeves
Mailing Address: 1000 Oakbrook Drive, Suite 200
City, State, Zip Code: Ann Arbor, MI 48104
Office Phone: | Cell Phone: 734.263.7138
Email Address: molly.reeves@hdrinc.com

Bill To:

PO #: 10337505.006
Contact Name: Lara Zawaideh
Billing Address (if different):
City, State, Zip Code:
Phone Number: 734.223.9074
Billing Email Address: lara.zawaideh@hdrinc.com

Trace Use:

Logged By: NC
Checked By: SAB
Soil Volatiles Preserved (circle if applicable): MeOH | Low Level | Lab
Sample Collection Time (Hrs):

Requested Turnaround Times (TAT)

☒ Standard: 5-10 Business days
☐ 3 Business Days*
☐ 1 Business Day*
** Rush TAT Requires Prior Approval*

Matrix Key:

WW = Wastewater | O = Oil | A = Air
DW = Drinking Water | WI = Wipes | U = Unknown
GW = Groundwater | S = Solid
LW = Liquid Waste | SL = Sludge

Project Name: City of Grand Haven - Harbor Island
Sampled By (print): Andrew Byers / Franklin Davis Rey

Trace No.	Sample Collection Date	Sample Collection Time	Sample ID/Name	Metals Field Filterd (Y or N)	Matrix - see above →	Number of Containers	Preservation: Cool ≤ 4°C	Hydrochloric Acid (HCl)	Nitric Acid (HNO3)	Sulfuric Acid (H2SO4)	Sodium Thiosulfate	Sodium Hydroxide (NaOH)	Ascorbic Acid	Trizma	Other	Analysis Requested: 40 CFR Appendix III to Part 257	40 CFR Appendix IV to Part 257	Additional MI Part 115 Metals	Total Suspended Solids (TSS)	~~See attached list.~~ RAB	Li Hg	Remarks/Notes	Possible Health Hazards?
1	8/10/26	1238	MW-41	N	GW	4	4		2							X	X	X	X		X		
2	8/10/26	1346	MW-09	N	GW	4	4		2							X	X	X	X		X		
3	8/10/26	1510	MW-10	N	GW	4	4		2							X	X	X	X		X		
4	8/10/26	1510	MWT-10	N	GW	4	4		2							X	X	X	X		X		
5	8/10/26	1515	MW-42	N	GW	4	4		2							X	X	X	X		X		
6	8/10/26	1620	LLHGTB-08102026	N	W	1	1														X		
7	8/11/26	900	MW-30	N	GW	4	4		2							X	X	X	X		X		
8	8/11/26	1015	MW-07	N	GW	4	4		2							X	X	X	X		X		
9	8/11/26	1120	MW-43	N	GW	4	4		2							X	X	X	X		X		
10	8/11/26	1245	MW-20	N	GW	4	4		2							X	X	X	X		X		

Please Sign	Released By	Received By	Date	Time
1)	Andrew Byers		8/10/26	0819
2)				
3)				
4)				

In executing this Chain of Custody, the client acknowledges the terms as set forth at www.trace-labs.com/terms-of-agreement.

☐ Check this box if you would not like your samples analyzed if received outside of the conditions outlined in the Trace Sample Acceptance Policy at www.trace-labs.com/downloads.

Form 70-Z.2

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CHAIN-OF-CUSTODY RECORD

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Muskegon, MI 49444-2673

Phone 231.773.5998
Fax 888.979.4469
www.trace-labs.com

Trace ID No. 26H0718

Report Results To:

Company Name:	HDR, Inc.
Report To:	Molly Reeves
Mailing Address:	1000 Oakbrook Drive, Suite 200
City, State, Zip Code:	Ann Arbor, MI 48104
Office Phone:	Cell Phone: 734.263.7138
Email Address:	molly.reeves@hdrinc.com

Bill To:

PO #:	10337505.006
Contact Name:	Lara Zawaideh
Billing Address (if different):	
City, State, Zip Code:	
Phone Number:	734.223.9074
Billing Email Address:	lara.zawaideh@hdrinc.com

Trace Use:

Logged By:	NC
Checked By:	SAB
Soil Volatiles Preserved (circle if applicable):	MeOH / Low Level / Lab
Sample Collection Time (Hrs):	

Requested Turnaround Times (TAT)

☒ Standard: 5-10 Business days
☐ 3 Business Days*
☐ 1 Business Day*
** Rush TAT Requires Prior Approval*

Matrix Key:

WW = Wastewater, DW = Drinking Water, GW = Groundwater, LW = Liquid Waste, O = Oil, WI = Wipes, S = Solid, SL = Sludge, A = Air, U = Unknown

Project Name: City of Grand Haven - Harbor Island

Sampled By (print): Andrew Byles / Franklin Davis Ray

Trace No.	Sample Collection Date	Sample Collection Time	Sample ID/Name	Metals Field Filterd (Y or N)	Matrix - see above →	Number of Containers	Preservation: Cool ≤ 4°C	Hydrochloric Acid (HCl)	Nitric Acid (HNO3)	Sulfuric Acid (H2SO4)	Sodium Thiosulfate	Sodium Hydroxide (NaOH)	Ascorbic Acid	Trizma	Other	Analysis Requested: 40 CFR Appendix III to Part 257	40 CFR Appendix IV to Part 257	Additional MI Part 115 Metals	Total Suspended Solids (TSS)	~~See attached list.~~ AB	LLHg	Remarks/Notes	Possible Health Hazards?
11	8/11/26	1350	MW-17	N	GW	4	4		2							X	X	X	X	X	X		
12	8/11/26	1505	MW-18	N	GW	4	4		2							X	X	X	X	X			
13	8/11/26	1530	MWT-18	N	GW	4	4		2							X	X	X	X	X			
14	8/11/26	922	MW-37	N	GW	4	4		2							X	X	X	X	X			
15	8/11/26	950	MW-38	N	GW	4	4		2							X	X	X	X	X			
16	8/11/26	1038	MW-36	N	GW	4	4		2							X	X	X	X	X			
17	8/11/26	1240	MW-01RB	N	GW	4	4		2							X	X	X	X	X			
18	8/11/26	1340	MW-01R	N	GW	4	4		2							X	X	X	X	X			
19	8/11/26	1502	MW-13	N	GW	4	4		2							X	X	X	X	X			
20	8/11/26	1630	MW-10	N	GW	4	4		2							X	X	X	X	X			

Please Sign	Released By	Received By	Date	Time
1)	Andrew Byles		8/12/26	0819
2)				
3)				
4)				

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Form 70-Z.2

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Trace Analytical Laboratories, Inc.
2241 Black Creek Road
Muskegon, MI 49444-2673

TRACE ANALYTICAL LABORATORIES, INC.

231-773-5998 Phone
888-979-4469 Fax
www.trace-labs.com

CHAIN-OF-CUSTODY RECORD

Trace Analytical Laboratories, Inc.
2241 Black Creek Road
Muskegon, MI 49444-2673

Phone 231.773.5998
Fax 888.979.4469
www.trace-labs.com

Trace ID No. 26H0718

Report Results To:

Company Name:	HDR, Inc.
Report To:	Molly Reeves
Mailing Address:	1000 Oakbrook Drive, Suite 200
City, State, Zip Code:	Ann Arbor, MI 48104
Office Phone:	Cell Phone: 734.263.7138
Email Address:	molly.reeves@hdrinc.com

Bill To:

PO #:	10337505.006
Contact Name:	Lara Zawaideh
Billing Address (if different):	
City, State, Zip Code:	
Phone Number:	734.223.9074
Billing Email Address:	lara.zawaideh@hdrinc.com

Trace Use:

Logged By:	NC
Checked By:	SAB
Soil Volatiles Preserved (circle if applicable):	MeOH / Low Level / Lab
Sample Collection Time (Hrs):	

Requested Turnaround Times (TAT)

- ☒ Standard: 5-10 Business days
- ☐ 3 Business Days*
- ☐ 1 Business Day*

** Rush TAT Requires Prior Approval*

Matrix Key:

WW = Wastewater, DW = Drinking Water, GW = Groundwater, LW = Liquid Waste, O = Oil, WI = Wipes, S = Solid, SL = Sludge, A = Air, U = Unknown

Project Name: City of Grand Haven - Harbor Island

Sampled By (print): Andrew Byrd / Franklin Davis Ray

Trace No.	Sample Collection Date	Sample Collection Time	Sample ID/Name	Metals Field Filterd (Y or N)	Matrix - see above →	Number of Containers	Preservation: Cool ≤ 4°C	Hydrochloric Acid (HCl)	Nitric Acid (HNO3)	Sulfuric Acid (H2SO4)	Sodium Thiosulfate	Sodium Hydroxide (NaOH)	Ascorbic Acid	Trizma	Other	40 CFR Appendix III to Part 257	40 CFR Appendix IV to Part 257	Additional MI Part 115 Metals	Total Suspended Solids (TSS)	See attached list. ~~AB~~	LL Hg	Remarks/Notes	Possible Health Hazards?
21	8/11/26	1630	MWT-10	N	GW	4	4		2							X	X	X	X		X		
22	8/11/26	1720	LLHGTB-08112026	N	W	1	1														X		

Analysis Requested

Please Sign	Released By	Date	Time	Received By	Released By	Date	Time	Received By	Date	Time
1)										
2)		8/12/26	0819							
3)										
4)										

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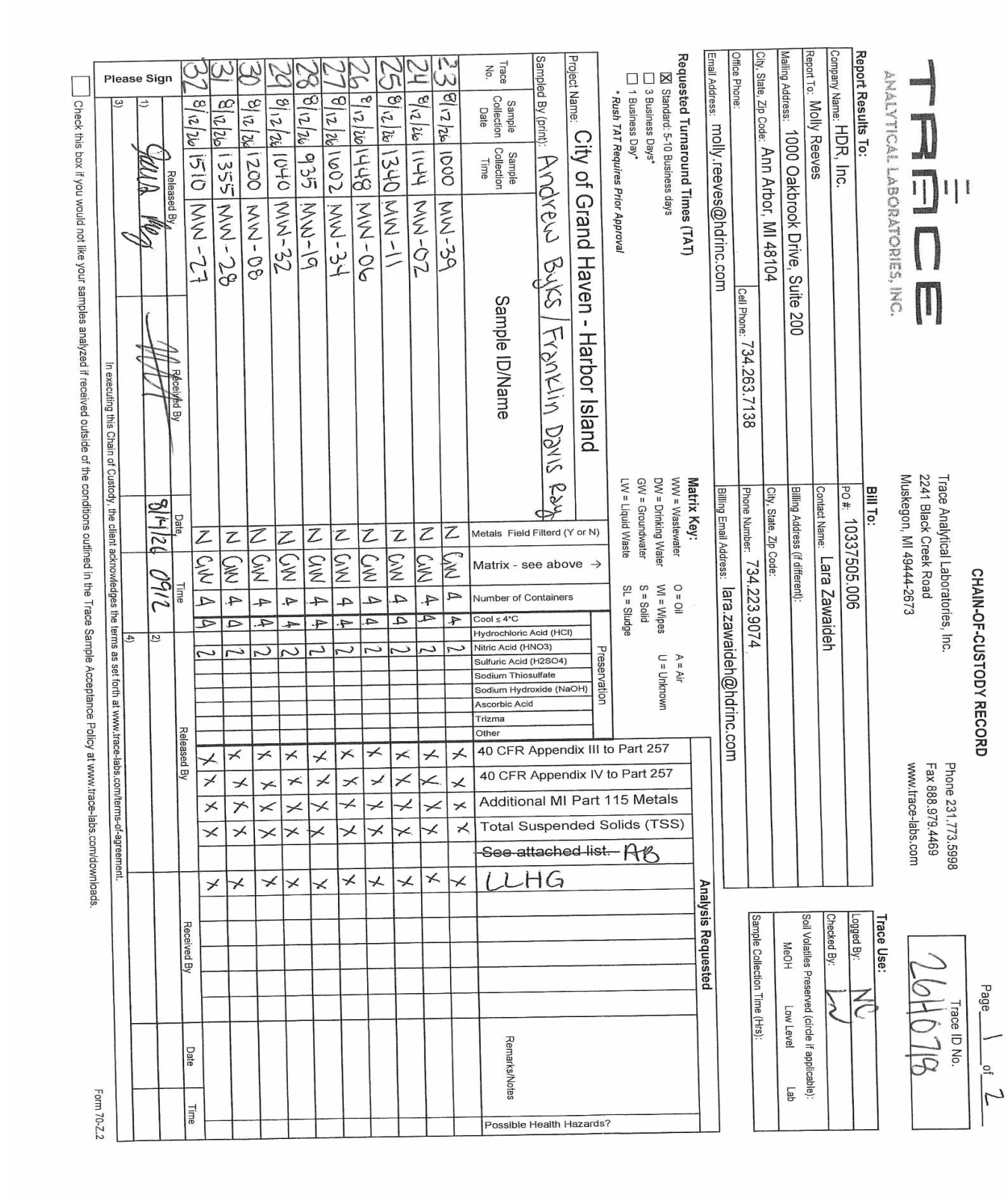
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www.trace-labs.com



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CHAIN-OF-CUSTODY RECORD

Page 1 of 2

Trace ID No. 26H0718

Report Results To:

Company Name: HDR, Inc.
Report To: Molly Reeves
Mailing Address: 1000 Oakbrook Drive, Suite 200
City, State, Zip Code: Ann Arbor, MI 48104
Office Phone: Cell Phone: 734.263.7138
Email Address: molly.reeves@hdrinc.com

Bill To:

PO #: 10337505.006
Contact Name: Lara Zawaideh
Billing Address (if different):
City, State, Zip Code:
Phone Number: 734.223.9074
Billing Email Address: lara.zawaideh@hdrinc.com

Trace Use:

Logged By: NC
Checked By: LZ
Soil Volatiles Preserved (circle if applicable): MeOH Low Level Lab
Sample Collection Time (Hrs):

Project Name: City of Grand Haven - Harbor Island
Sampled By (print): Andrew Byks / Franklin Davis Reg

Requested Turnaround Times (TAT)

☒ Standard: 5-10 Business days
☐ 3 Business Days*
☐ 1 Business Day*
** Rush TAT Requires Prior Approval*

Matrix Key:

WW = Wastewater, DW = Drinking Water, GW = Groundwater, LW = Liquid Waste, O = Oil, WI = Wipes, S = Solid, SL = Sludge, A = Air, U = Unknown

Trace No.	Sample Collection Date	Sample Collection Time	Sample ID/Name	Metals Field Filterd (Y or N)	Matrix - see above →	Number of Containers	Preservation: Cool ≤ 4°C	Preservation: Hydrochloric Acid (HCl)	Preservation: Nitric Acid (HNO3)	Preservation: Sulfuric Acid (H2SO4)	Preservation: Sodium Thiosulfate	Preservation: Sodium Hydroxide (NaOH)	Preservation: Ascorbic Acid	Preservation: Trizma	Preservation: Other	Analysis Requested: 40 CFR Appendix III to Part 257	Analysis Requested: 40 CFR Appendix IV to Part 257	Analysis Requested: Additional MI Part 115 Metals	Analysis Requested: Total Suspended Solids (TSS)	Analysis Requested: ~~See attached list.~~ AB	Analysis Requested: LLHG	Analysis Requested:	Analysis Requested:	Analysis Requested:	Analysis Requested: Possible Health Hazards?	Analysis Requested: Remarks/Notes
23	8/12/26	1000	MW-39	N	GW	4	4		2							X	X	X	X		X					
24	8/12/26	1144	MW-02	N	GW	4	4		2							X	X	X	X		X					
25	8/12/26	1340	MW-11	N	GW	4	4		2							X	X	X	X		X					
26	8/12/26	1448	MW-06	N	GW	4	4		2							X	X	X	X		X					
27	8/12/26	1602	MW-34	N	GW	4	4		2							X	X	X	X		X					
28	8/12/26	935	MW-19	N	GW	4	4		2							X	X	X	X		X					
29	8/12/26	1040	MW-32	N	GW	4	4		2							X	X	X	X		X					
30	8/12/26	1200	MW-08	N	GW	4	4		2							X	X	X	X		X					
31	8/12/26	1355	MW-28	N	GW	4	4		2							X	X	X	X		X					
32	8/12/26	1510	MW-27	N	GW	4	4		2							X	X	X	X		X					

Please Sign

	Released By	Received By	Date	Time
1)			8/14/26	0912
2)				
3)				
4)				

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CHAIN-OF-CUSTODY RECORD

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Page 2 of 2

Trace ID No. 26H0718

Report Results To:

Company Name: HDR, Inc.
Report To: Molly Reeves
Mailing Address: 1000 Oakbrook Drive, Suite 200
City, State, Zip Code: Ann Arbor, MI 48104
Office Phone: Cell Phone: 734.263.7138
Email Address: molly.reeves@hdrinc.com

Bill To:

PO #: 10337505.006
Contact Name: Lara Zawaideh
Billing Address (if different):
City, State, Zip Code:
Phone Number: 734.223.9074
Billing Email Address: lara.zawaideh@hdrinc.com

Trace Use:

Logged By: NC
Checked By: LZ
Soil Volatiles Preserved (circle if applicable): MeOH Low Level Lab
Sample Collection Time (Hrs):

Requested Turnaround Times (TAT)

☒ Standard: 5-10 Business days
☐ 3 Business Days*
☐ 1 Business Day*
** Rush TAT Requires Prior Approval*

Matrix Key:

WW = Wastewater, DW = Drinking Water, GW = Groundwater, LW = Liquid Waste, O = Oil, WI = Wipes, S = Solid, SL = Sludge, A = Air, U = Unknown

Project Name: City of Grand Haven - Harbor Island
Sampled By (print): Andrew Byes / Franklin Davis Ray

Trace No.	Sample Collection Date	Sample Collection Time	Sample ID/Name	Metals Field Filterd (Y or N)	Matrix - see above →	Number of Containers	Preservation: Cool ≤ 4°C	Hydrochloric Acid (HCl)	Nitric Acid (HNO3)	Sulfuric Acid (H2SO4)	Sodium Thiosulfate	Sodium Hydroxide (NaOH)	Ascorbic Acid	Trizma	Other	Analysis Requested: 40 CFR Appendix III to Part 257	40 CFR Appendix IV to Part 257	Additional MI Part 115 Metals	Total Suspended Solids (TSS)	See attached list. AB	LLHG	Remarks/Notes	Possible Health Hazards?
33	8/12/26	1630	MW-12	N	GW	4			1							X	X	X	X	X	X		
34	8/12/26	1640	LLHGTB-08122026	—	W	1															X		
35	8/13/26	852	MW-33	N	GW	4			2							X	X	X	X	X	X		
36	8/13/26	1034	MW-03	N	GW	4			2							X	X	X	X	X	X		
37	8/13/26	1200	MW-04R	N	GW	4			2							X	X	X	X	X	X		
38	8/13/26	1015	MW-31	N	GW	4			2							X	X	X	X	X	X		
39	8/13/26	1210	MW-04	N	GW	4			2							X	X	X	X	X	X		
40	8/13/26	1330	SG-02	N	SW	4			2							X	X	X	X	X	X		
41	8/13/26	1400	SG-07	N	SW	4			2							X	X	X	X	X	X		
42	8/13/26	1430	LLHGTB-08132026	—	W	1			1												X		

Please Sign

	Released By	Date	Time	Received By
1)		8/14/26	0912	2)
3)				4)

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26H0718

HDR Michigan Inc.
Project Manager: Jon Mink

Sample Log In Checklist

	Original Observation	Corrected Temperature	IR-9 (CF: -0.2°C)	IR-12 (CF: -0.3°C)	IR-13 (CF: -0.6°C)	IR-14 (CF: -1.2°C)	SR1 (CF: -0.3°C)	SR2 (CF: -0.2°C)	Temp Blank	Client Sample
Date: 8/12/26										
Time: 0929										
Initials: MS										
Package Description: Cooler										
Package Temp °C	2.6	2.3		✓						
Representative Sample Temp °C	5.5	5.2		✓						✓

Sample Receipt

Yes No
- ☐ ☐ Received on ice or other coolant
- ☐ ☐ Ice still present upon receipt
- ☐ ☐ Custody seals present — ☐ Yes ☐ No Custody seals intact (if applicable)
- ☐ Trace Courier ☐ Client Drop-off ☐ UPS ☐ Fed Ex ☐ US Mail ☐ Other

Sample Condition

Yes No N/A
- ☑ ☐ ☐ All sample containers arrived unbroken and labeled
- ☑ ☐ ☐ Sufficient sample to run requested analyses
- ☑ ☐ ☐ Correct chemical preservative added to samples
- ☐ ☑ ☐ Samples preserved at Trace (if yes, fill in preservation information below)
  Preservation - Reagent:_____ LIMS ID:_____ Date/Time:_____
- ☑ ☐ ☐ Chemical preservation verified, check EMD pH test strip used (if applicable)
  ☑ pH 0-2.5 (Lot: HC446906) ☐ pH 11.0-13.0 (Lot: HC022540) ☐ Other
- ☐ ☐ ☑ Air bubbles absent from VOAs (no bubble greater than 6mm) _____

Chain of Custody (COC)

Yes No
- ☑ ☐ All bottle labels agree with COC
- ☑ ☐ COC filled out properly
- ☑ ☐ COC signed by client

Notes:

MW-30 MW-18
MW-42
MW-07
MW-43
MW-20
MW-17
MW-18

Form 70-A.65
Effective 7/21/26

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888-979-4469 Fax
www.trace-labs.com

26H0718

HDR Michigan Inc.
Project Manager: Jon Mink

Sample Log In Checklist

	Original Observation	Corrected Temperature	IR-9 (CF: -0.2°C)	IR-12 (CF: -0.3°C)	IR-13 (CF: -0.6°C)	IR-14 (CF: -1.2°C)	SR1 (CF: -0.3°C)	SR2 (CF: -0.2°C)	Temp Blank	Client Sample
Date: 03/12/26										
Time: 0944										
Initials: MJ										
Package Description: Cooler										
Package Temp °C	0.3	0.0		/						
Representative Sample Temp °C	12.0	11.7		/						/

Sample Receipt

Yes	No				
☒	☐	Received on ice or other coolant			
☒	☐	Ice still present upon receipt			
☐	☒	Custody seals present	☐ Yes ☐ No	Custody seals intact (if applicable)	
☐	☒	Trace Courier / Client Drop-off	☐ UPS	☐ Fed Ex	☐ US Mail ☐ Other

Sample Condition

Yes	No	N/A	
☒	☐	☐	All sample containers arrived unbroken and labeled
☒	☐	☐	Sufficient sample to run requested analyses
☒	☐	☐	Correct chemical preservative added to samples
☐	☒	☐	Samples preserved at Trace (if yes, fill in preservation information below)
			Preservation - Reagent:_____ LIMS ID:_____ Date/Time:_____
☒	☐	☐	Chemical preservation verified, check EMD pH test strip used (if applicable)
			☒ pH 0-2.5 (Lot: HC446906) ☐ pH 11.0-13.0 (Lot: HC022540) ☐ Other
☐	☐	☒	Air bubbles absent from VOAs (no bubble greater than 6mm) _____

Chain of Custody (COC)

Yes	No	
☒	☐	All bottle labels agree with COC
☐	☐	COC filled out properly
☒	☐	COC signed by client

Notes:

MW-01R
MW-13
MW-16

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Effective 7/21/25

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www.trace-labs.com

26H0718

HDR Michigan Inc.
Project Manager: Jon Mink

Sample Log In Checklist

	Original Observation	Corrected Temperature	IR-9 (CF: -0.2°C)	IR-12 (CF: -0.3°C)	IR-13 (CF: -0.6°C)	IR-14 (CF: -1.2°C)	SR1 (CF: -0.3°C)	SR2 (CF: -0.2°C)	Temp Blank	Client Sample
Date: 8/2/26										
Time: 0947										
Initials: MT										
Package Description: Cooler										
Package Temp °C	0.3	0.0		/						
Representative Sample Temp °C	4.1	3.8		/						/

Sample Receipt

Yes No

- [x] [ ] Received on ice or other coolant
- [x] [ ] Ice still present upon receipt
- [ ] [x] Custody seals present — [ ] Yes [ ] No Custody seals intact (if applicable)
- [ ] Trace Courier [x] Client Drop-off — [ ] UPS [ ] Fed Ex [ ] US Mail [ ] Other

Sample Condition

Yes No N/A

- [x] [ ] [ ] All sample containers arrived unbroken and labeled
- [x] [ ] [ ] Sufficient sample to run requested analyses
- [x] [ ] [ ] Correct chemical preservative added to samples
- [ ] [x] [ ] Samples preserved at Trace (if yes, fill in preservation information below)
  Preservation - Reagent:_____ LIMS ID:_____ Date/Time:_____
- [x] [ ] [ ] Chemical preservation verified, check EMD pH test strip used (if applicable)
  [x] pH 0-2.5 (Lot: HC446906) [ ] pH 11.0-13.0 (Lot: HC022540) [ ] Other
- [x] [ ] [x] Air bubbles absent from VOAs (no bubble greater than 6mm) _____

Chain of Custody (COC)

Yes No

- [x] [ ] All bottle labels agree with COC
- [x] [ ] COC filled out properly
- [x] [ ] COC signed by client

Notes:

MW-09
MWT-10
MW-10
MW-41

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Effective 7/21/26

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888-979-4469 Fax
www.trace-labs.com

26H0718

HDR Michigan Inc.
Project Manager: Jon Mink

Sample Log In Checklist

	Original Observation	Corrected Temperature	IR-9 (CF: -0.2°C)	IR-12 (CF: -0.3°C)	IR-13 (CF: -0.6°C)	IR-14 (CF: -1.2°C)	SR1 (CF: -0.3°C)	SR2 (CF: -0.2°C)	Temp Blank	Client Sample
Date: 08/12/26										
Time: 0944										
Initials: MJ										
Package Description: Cooler										
Package Temp °C	0.3	0.0		/						
Representative Sample Temp °C	12.0	11.7		/						/

Sample Receipt

Yes	No					
☑	☐	Received on ice or other coolant				
☑	☐	Ice still present upon receipt				
☐	☑	Custody seals present	☐ Yes	☐ No	Custody seals intact (if applicable)	
☐	☑	Trace Courier / Client Drop-off	☐ UPS	☐ Fed Ex	☐ US Mail	☐ Other

Sample Condition

Yes	No	N/A	
☑	☐	☐	All sample containers arrived unbroken and labeled
☑	☐	☐	Sufficient sample to run requested analyses
☑	☐	☐	Correct chemical preservative added to samples
☐	☑	☐	Samples preserved at Trace (if yes, fill in preservation information below)

Preservation - Reagent:_____ LIMS ID:_____ Date/Time:_____

☑	☐	☐	Chemical preservation verified, check EMD pH test strip used (if applicable)

☑ pH 0-2.5 (Lot: HC446906) ☐ pH 11.0-13.0 (Lot: HC022540) ☐ Other

☐	☐	☑	Air bubbles absent from VOAs (no bubble greater than 6mm)

Chain of Custody (COC)

Yes	No	
☑	☐	All bottle labels agree with COC
☑	☐	COC filled out properly
☑	☐	COC signed by client

Notes:

MW-01R
MW-13
MW-16

Form 70-A.65
Effective 7/21/26

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26H0718
HDR Michigan Inc.
Project Manager: Jon Mink

Sample Log In Checklist

	Original Observation	Corrected Temperature	IR-9 (CF: -0.2°C)	IR-12 (CF: -0.3°C)	IR-13 (CF: -0.6°C)	IR-14 (CF: -1.2°C)	SR1 (CF: -0.3°C)	SR2 (CF: -0.2°C)	Temp Blank	Client Sample
Date: 8/12/26										
Time: 0947										
Initials: MT										
Package Description: Cooler										
Package Temp °C	0.3	0.0		/						
Representative Sample Temp °C	4.1	3.8		/						/

Sample Receipt

Yes No

- [x] [ ] Received on ice or other coolant
- [x] [ ] Ice still present upon receipt
- [ ] [x] Custody seals present — [ ] Yes [ ] No Custody seals intact (if applicable)
- [ ] Trace Courier [x] Client Drop-off — [ ] UPS [ ] Fed Ex [ ] US Mail [ ] Other

Sample Condition

Yes No N/A

- [x] [ ] [ ] All sample containers arrived unbroken and labeled
- [x] [ ] [ ] Sufficient sample to run requested analyses
- [x] [ ] [ ] Correct chemical preservative added to samples
- [ ] [x] [ ] Samples preserved at Trace (if yes, fill in preservation information below)
  Preservation - Reagent:_____ LIMS ID:_____ Date/Time:_____
- [x] [ ] [ ] Chemical preservation verified, check EMD pH test strip used (if applicable)
  [x] pH 0-2.5 (Lot: HC446906) [ ] pH 11.0-13.0 (Lot: HC022540) [ ] Other
- [N/A] [ ] [x] Air bubbles absent from VOAs (no bubble greater than 6mm) _____

Chain of Custody (COC)

Yes No

- [x] [ ] All bottle labels agree with COC
- [x] [ ] COC filled out properly
- [x] [ ] COC signed by client

Notes:

MW-09
MWT-10
MW-10
MW-41

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Effective 7/21/26

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26H0718
HDR Michigan Inc.
Project Manager: Jon Mink

Sample Log In Checklist

	Original Observation	Corrected Temperature	IR-9 (CF: -0.2°C)	IR-12 (CF: -0.3°C)	IR-13 (CF: -0.6°C)	IR-14 (CF: -1.2°C)	SR1 (CF: -0.3°C)	SR2 (CF: -0.2°C)	Temp Blank	Client Sample
Date: 8/14/26										
Time: 11:04										
Initials: HM										
Package Description: Cooler										
Package Temp °C	-0.4	-1.0			✓					
Representative Sample Temp °C	6.4	6.2						✓	✓	

Sample Receipt

Yes No
- [x] [ ] Received on ice or other coolant
- [x] [ ] Ice still present upon receipt
- [ ] [x] Custody seals present — [ ] Yes [ ] No Custody seals intact (if applicable)
- [ ] Trace Courier [x] Client Drop-off [ ] UPS [ ] Fed Ex [ ] US Mail [ ] Other

Sample Condition

Yes No N/A
- [x] [ ] [ ] All sample containers arrived unbroken and labeled
- [x] [ ] [ ] Sufficient sample to run requested analyses
- [x] [ ] [ ] Correct chemical preservative added to samples
- [ ] [x] [ ] Samples preserved at Trace (if yes, fill in preservation information below)
  Preservation - Reagent:_____ LIMS ID:_____ Date/Time:_____
- [x] [ ] [ ] Chemical preservation verified, check EMD pH test strip used (if applicable)
  [x] pH 0-2.5 (Lot: HC446906) [ ] pH 11.0-13.0 (Lot: HC022540) [ ] Other
- [ ] [ ] [x] Air bubbles absent from VOAs (no bubble greater than 6mm) _____

Chain of Custody (COC)

Yes No
- [x] [ ] All bottle labels agree with COC
- [x] [ ] COC filled out properly
- [x] [ ] COC signed by client

Notes:

MW-12, MW-31, MW-64, SG-02, SG-07

Form 70-A.65
Effective 7/21/26

TRACE Analytical Laboratories, Inc.

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Trace Analytical Laboratories, Inc.
2241 Black Creek Road
Muskegon, MI 49444-2673

TRACE ANALYTICAL LABORATORIES, INC.

231-773-5998 Phone
888-979-4469 Fax
www.trace-labs.com

26H0718
HDR Michigan Inc.
Project Manager: Jon Mink

Sample Log In Checklist

	Original Observation	Corrected Temperature	IR-9 (CF: -0.2°C)	IR-12 (CF: -0.3°C)	IR-13 (CF: -0.6°C)	IR-14 (CF: -1.2°C)	SR1 (CF: -0.3°C)	SR2 (CF: -0.2°C)	Temp Blank	Client Sample
Date: 8/14/26										
Time: 11:23										
Initials: HM										
Package Description: Cooler										
Package Temp °C	0.2	-0.4			✓					
Representative Sample Temp °C	13.1	12.5			✓					✓

Sample Receipt

Yes No
- [x] [ ] Received on ice or other coolant
- [x] [ ] Ice still present upon receipt
- [ ] [x] Custody seals present — [ ] Yes [ ] No Custody seals intact (if applicable)
- [ ] Trace Courier [x] Client Drop-off [ ] UPS [ ] Fed Ex [ ] US Mail [ ] Other

Sample Condition

Yes No N/A
- [x] [ ] [ ] All sample containers arrived unbroken and labeled
- [x] [ ] [ ] Sufficient sample to run requested analyses
- [x] [ ] [ ] Correct chemical preservative added to samples
- [ ] [x] [ ] Samples preserved at Trace (if yes, fill in preservation information below)
  Preservation - Reagent:_____ LIMS ID:_____ Date/Time:_____
- [x] [ ] [ ] Chemical preservation verified, check EMD pH test strip used (if applicable)
  [x] pH 0-2.5 (Lot: HC446906) [ ] pH 11.0-13.0 (Lot: HC022540) [ ] Other
- [ ] [ ] [x] Air bubbles absent from VOAs (no bubble greater than 6mm) _____

Chain of Custody (COC)

Yes No
- [x] [ ] All bottle labels agree with COC
- [x] [ ] COC filled out properly
- [x] [ ] COC signed by client

Notes:

MW-39, MW-02, MW-11, MW-06

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26H0718
HDR Michigan Inc.
Project Manager: Jon Mink

Sample Log In Checklist

	Original Observation	Corrected Temperature	IR-9 (CF: -0.2°C)	IR-12 (CF: -0.3°C)	IR-13 (CF: -0.6°C)	IR-14 (CF: -1.2°C)	SR1 (CF: -0.3°C)	SR2 (CF: -0.2°C)	Temp Blank	Client Sample
Date: 8/14/26										
Time: 11:50										
Initials: HM										
Package Description: Cooler										
Package Temp °C	0.0	-0.6			✓					
Representative Sample Temp °C	9.0	8.8						✓	✓	

Sample Receipt

Yes No
- ☑ ☐ Received on ice or other coolant
- ☑ ☐ Ice still present upon receipt
- ☐ ☑ Custody seals present — ☐ Yes ☐ No Custody seals intact (if applicable)
- ☐ Trace Courier ☑ Client Drop-off — ☐ UPS ☐ Fed Ex ☐ US Mail ☐ Other

Sample Condition

Yes No N/A
- ☑ ☐ ☐ All sample containers arrived unbroken and labeled
- ☑ ☐ ☐ Sufficient sample to run requested analyses
- ☑ ☐ ☐ Correct chemical preservative added to samples
- ☐ ☑ ☐ Samples preserved at Trace (if yes, fill in preservation information below)
  Preservation - Reagent:_____ LIMS ID:_____ Date/Time:_____
- ☑ ☐ ☐ Chemical preservation verified, check EMD pH test strip used (if applicable)
  ☑ pH 0-2.5 (Lot: HC446906) ☐ pH 11.0-13.0 (Lot: HC022540) ☐ Other
- ☐ ☐ ☑ Air bubbles absent from VOAs (no bubble greater than 6mm) _____

Chain of Custody (COC)

Yes No
- ☑ ☐ All bottle labels agree with COC
- ☑ ☐ COC filled out properly
- ☑ ☐ COC signed by client

Notes:

MW-34, LLHGTB-08122026, MW-33, MW-03, MW-04R, LLHGTB-08132026

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Sample Log In Checklist

26H0718
HDR Michigan Inc.
Project Manager: Jon Mink

	Original Observation	Corrected Temperature	IR-9 (CF: -0.2°C)	IR-12 (CF: -0.3°C)	IR-13 (CF: -0.6°C)	IR-14 (CF: -1.2°C)	SR1 (CF: -0.3°C)	SR2 (CF: -0.2°C)	Temp Blank	Client Sample
Date: 8/14/26										
Time: 10:20										
Initials: HM										
Package Description: Cooler										
Package Temp °C	0.0	-0.6			✓					
Representative Sample Temp °C	4.0	3.7					✓		✓	

Sample Receipt

Yes No

- [x] [ ] Received on ice or other coolant
- [x] [ ] Ice still present upon receipt
- [ ] [x] Custody seals present — [ ] Yes [ ] No Custody seals intact (if applicable)
- [ ] Trace Courier [x] Client Drop-off [ ] UPS [ ] Fed Ex [ ] US Mail [ ] Other

Sample Condition

Yes No N/A

- [x] [ ] [ ] All sample containers arrived unbroken and labeled
- [x] [ ] [ ] Sufficient sample to run requested analyses
- [x] [ ] [ ] Correct chemical preservative added to samples
- [ ] [x] [ ] Samples preserved at Trace (if yes, fill in preservation information below)

Preservation - Reagent:_____ LIMS ID:_____ Date/Time:_____

- [x] [ ] [ ] Chemical preservation verified, check EMD pH test strip used (if applicable)

[x] pH 0-2.5 (Lot: HC446906) [ ] pH 11.0-13.0 (Lot: HC022540) [ ] Other

- [ ] [ ] [x] Air bubbles absent from VOAs (no bubble greater than 6mm) _____

Chain of Custody (COC)

Yes No

- [x] [ ] All bottle labels agree with COC
- [x] [ ] COC filled out properly
- [x] [ ] COC signed by client

Notes:

MW-08, MW-19, MW-27, MW-28, MW-32

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Effective 7/21/26

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September 21, 2026

Molly Reeves
HDR Michigan Inc.
1000 Oakbrook Dr., Suite 200
Ann Arbor, MI 48104

RE: Trace Project 26H0719
Client Project City of Grand Haven - Harbor Island

Enclosed are your analytical results. The results of this report relate only to the samples listed in the body of this report.

All reports were examined through Trace's validation process to ensure that requirements for quality and completeness were satisfied. All reported analytical results were obtained in accordance with the methods referenced on the reports. Every practical effort was made to meet the reporting limit specifications for this work, however, some results may have raised reporting limits to correct for percent solids.

The results were obtained from Eurofins Drinking Water and Wastewater Central.

If you have questions concerning this report, please contact me at 231.773.5998 or by email at jmink@trace-labs.com.

Sincerely,

Jon Mink
Senior Project Manager

Enclosures

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SAMPLE SUMMARY

Trace Project ID: 26H0719
Client Project ID: City of Grand Haven - Harbor Island

Trace ID	Sample ID	Matrix	Collected By	Date Collected	Date Received
26H0719-01	MW-41	Ground Water	AB/FDR	08/10/26 12:38	08/12/26 08:19
26H0719-02	MW-09	Ground Water	AB/FDR	08/10/26 13:46	08/12/26 08:19
26H0719-03	MW-10	Ground Water	AB/FDR	08/10/26 15:10	08/12/26 08:19
26H0719-04	MWT-10	Ground Water	AB/FDR	08/10/26 15:10	08/12/26 08:19
26H0719-05	MW-42	Ground Water	AB/FDR	08/10/26 15:15	08/12/26 08:19
26H0719-06	MW-30	Ground Water	AB/FDR	08/11/26 09:00	08/12/26 08:19
26H0719-07	MW-07	Ground Water	AB/FDR	08/11/26 10:15	08/12/26 08:19
26H0719-08	MW-43	Ground Water	AB/FDR	08/11/26 11:20	08/12/26 08:19
26H0719-09	MW-20	Ground Water	AB/FDR	08/11/26 12:45	08/12/26 08:19
26H0719-10	MW-17	Ground Water	AB/FDR	08/11/26 13:50	08/12/26 08:19
26H0719-11	MW-18	Ground Water	AB/FDR	08/11/26 15:05	08/12/26 08:19
26H0719-12	MWT-18	Ground Water	AB/FDR	08/11/26 15:30	08/12/26 08:19
26H0719-13	MW-37	Ground Water	AB/FDR	08/11/26 09:22	08/12/26 08:19
26H0719-14	MW-38	Ground Water	AB/FDR	08/11/26 09:50	08/12/26 08:19
26H0719-15	MW-36	Ground Water	AB/FDR	08/11/26 10:38	08/12/26 08:19
26H0719-16	MW-01RB	Ground Water	AB/FDR	08/11/26 12:40	08/12/26 08:19
26H0719-17	MW-01R	Ground Water	AB/FDR	08/11/26 13:40	08/12/26 08:19
26H0719-18	MW-13	Ground Water	AB/FDR	08/11/26 15:02	08/12/26 08:19
26H0719-19	MW-16	Ground Water	AB/FDR	08/11/26 16:30	08/12/26 08:19
26H0719-20	MWT-16	Ground Water	AB/FDR	08/11/26 16:30	08/12/26 08:19
26H0719-21	MW-39	Ground Water	AB/FDR	08/12/26 10:00	08/14/26 09:12

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26H0719-22	MW-02	Ground Water	AB/FDR	08/12/26 11:44	08/14/26 09:12
26H0719-23	MW-11	Ground Water	AB/FDR	08/12/26 13:40	08/14/26 09:12
26H0719-24	MW-06	Ground Water	AB/FDR	08/12/26 14:48	08/14/26 09:12
26H0719-25	MW-34	Ground Water	AB/FDR	08/12/26 16:02	08/14/26 09:12
26H0719-26	MW-19	Ground Water	AB/FDR	08/12/26 09:35	08/14/26 09:12
26H0719-27	MW-32	Ground Water	AB/FDR	08/12/26 10:40	08/14/26 09:12
26H0719-28	MW-08	Ground Water	AB/FDR	08/12/26 12:00	08/14/26 09:12
26H0719-29	MW-28	Ground Water	AB/FDR	08/12/26 13:55	08/14/26 09:12
26H0719-30	MW-27	Ground Water	AB/FDR	08/12/26 15:10	08/14/26 09:12
26H0719-31	MW-12	Ground Water	AB/FDR	08/12/26 16:30	08/14/26 09:12
26H0719-32	MW-33	Ground Water	AB/FDR	08/13/26 08:52	08/14/26 09:12
26H0719-33	MW-03	Ground Water	AB/FDR	08/13/26 10:34	08/14/26 09:12
26H0719-34	MW-04R	Ground Water	AB/FDR	08/13/26 12:00	08/14/26 09:12
26H0719-35	MW-31	Ground Water	AB/FDR	08/13/26 10:15	08/14/26 09:12
26H0719-36	MW-04	Ground Water	AB/FDR	08/13/26 12:10	08/14/26 09:12
26H0719-37	SG-02	Surface Water	AB/FDR	08/13/26 13:30	08/14/26 09:12
26H0719-38	SG-07	Surface Water	AB/FDR	08/13/26 14:00	08/14/26 09:12

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TRACE
ANALYTICAL LABORATORIES, INC.

CHAIN-OF-CUSTODY RECORD

Trace Analytical Laboratories, Inc.
2241 Black Creek Road
Muskegon, MI 49444-2673

Phone 231.773.5998
Fax 888.979.4469
www.trace-labs.com

Trace ID No. NC 8/12/26

~~26H0378~~ 26H0719

Report Results To:

Company Name: HDR, Inc.
Report To: Molly Reeves
Mailing Address: 1000 Oakbrook Drive, Suite 200
City, State, Zip Code: Ann Arbor, MI 48104
Office Phone: Cell Phone: 734.263.7138
Email Address: molly.reeves@hdrinc.com

Bill To:

PO #: 10337505.006
Contact Name: Lara Zawaideh
Billing Address (if different):
City, State, Zip Code:
Phone Number: 734.223.9074
Billing Email Address: lara.zawaideh@hdrinc.com

Trace Use:

Logged By: NC
Checked By: LJ
Soil Volatiles Preserved (circle if applicable): MeOH Low Level Lab
Sample Collection Time (Hrs):

Requested Turnaround Times (TAT)

☒ Standard: 5-10 Business days
☐ 3 Business Days*
☐ 1 Business Day*
** Rush TAT Requires Prior Approval*

Matrix Key:

WW = Wastewater, DW = Drinking Water, GW = Groundwater, LW = Liquid Waste, O = Oil, WI = Wipes, S = Solid, SL = Sludge, A = Air, U = Unknown

Project Name: City of Grand Haven - Harbor Island
Sampled By (print): Andrew Byksi Franklin Davis Ray

Trace No.	Sample Collection Date	Sample Collection Time	Sample ID/Name	Metals Field Filterd (Y or N)	Matrix - see above →	Number of Containers	Preservation: Cool ≤ 4°C	Hydrochloric Acid (HCl)	Nitric Acid (HNO3)	Sulfuric Acid (H2SO4)	Sodium Thiosulfate	Sodium Hydroxide (NaOH)	Ascorbic Acid	Trizma	Other	Analysis Requested: 40 CFR Appendix III to Part 257	40 CFR Appendix IV to Part 257	Additional MI Part 115 Metals	Total Suspended Solids (TSS)	See attached list. RB	Li Hg	Remarks/Notes	Possible Health Hazards?
1	8/10/26	1238	MW-41	N	GW	4	4									X	X	X	X	X	X		
2	8/10/26	1346	MW-09	N	GW	4	4		2							X	X	X	X	X	X		
3	8/10/26	1510	MW-10	N	GW	4	4		2							X	X	X	X	X	X		
4	8/10/26	1510	MWT-10	N	GW	4	4		2							X	X	X	X	X	X		
5	8/10/26	1515	MW-42	N	GW	4	4		2							X	X	X	X	X	X		
	8/10/26	1620	EQUIP-080820260	N	W	1	1														X		
6	8/11/26	900	MW-30	N	GW	4	4		2							X	X	X	X	X	X		
7	8/11/26	1015	MW-07	N	GW	4	4		2							X	X	X	X	X	X		
8	8/11/26	1120	MW-43	N	GW	4	4		2							X	X	X	X	X	X		
9	8/11/26	1245	MW-20	N	GW	4	4		2							X	X	X	X	X	X		

8/12/26

Please Sign	Released By	Date	Time	Received By	Released By	Date	Time	Received By
1)	Andrew Byk	8/12/26	0819		2)			
3)					4)			

In executing this Chain of Custody, the client acknowledges the terms as set forth at www.trace-labs.com/terms-of-agreement.

☐ Check this box if you would not like your samples analyzed if received outside of the conditions outlined in the Trace Sample Acceptance Policy at www.trace-labs.com/downloads.

Form 70-Z.2

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ANALYTICAL REPORT

PREPARED FOR

Attn: Jon Mink
Trace Analytical Laboratories
2241 Black Creek Road
Muskegon, Michigan 49444

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JOB DESCRIPTION

26H0719 Harbor Island

JOB NUMBER

810-205778-1

Eurofins South Bend
110 S Hill Street
South Bend IN 46617

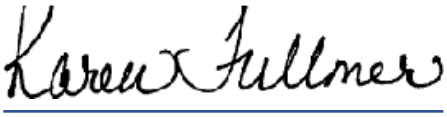
See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Drinking Water and Wastewater Central, LLC Project Manager.

Authorization



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Authorized for release by
Karen Fullmer, Project Manager
Karen.Fullmer@et.eurofinsus.com
(574)233-4777

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Definitions/Glossary

Client: Trace Analytical Laboratories
Project/Site: 26H0719 Harbor Island

Job ID: 810-205778-1

Qualifiers

Rad

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
G	The Sample MDC is greater than the requested RL.
U	Result is less than the sample detection limit.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 810-205778-1 — Eurofins South Bend

Job Narrative
810-205778-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt
The samples were received on 8/19/2026 9:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice.

Gas Flow Proportional Counter
Method 904.0: Radium 228 Batch 787480

The laboratory control sample (LCS) recovery is outside the upper QC limit indicating a potential positive bias for that analyte. This analyte was not observed above the RL in the associated samples; therefore the sample data is not adversely affected by this excursion. The data have been reported with this narrative. MW-41 (810-205778-1), MW-09 (810-205778-2), MW-10 (810-205778-3), MWT-10 (810-205778-4), MW-42 (810-205778-5), MW-30 (810-205778-6), MW-07 (810-205778-7), MW-43 (810-205778-8), MW-20 (810-205778-9), MW-17 (810-205778-10), MW-18 (810-205778-11), MWT-18 (810-205778-12), MW-37 (810-205778-13), MW-38 (810-205778-14), MW-36 (810-205778-15), (810-205778-A-8-B DU) and (810-205778-A-10-B DU)

Method 904.0: Radium 228 Batch 787480

The laboratory control sample (LCS) recovery is outside the upper QC limit indicating a potential positive bias for that analyte. This analyte was not observed above SDWA combined Radium 226/228 MCL of 5 in the associated samples; therefore the sample data is not adversely affected by this excursion. The data have been reported with this narrative. MW01RB (810-205778-16)

Method 904.0: Radium 228 Batch 787851

The detection goal was not met for the following sample due to a reduced sample volume used in prep attributed to the presence of matrix interferences. MW-02 (810-205778-22) and MW-28 (810-205778-29)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Rad
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Trace Analytical Laboratories
Project/Site: 26H0719 Harbor Island

Job ID: 810-205778-1

Client Sample ID: MW-41 — **Lab Sample ID: 810-205778-1**

No Detections.

Client Sample ID: MW-09 — **Lab Sample ID: 810-205778-2**

No Detections.

Client Sample ID: MW-10 — **Lab Sample ID: 810-205778-3**

No Detections.

Client Sample ID: MWT-10 — **Lab Sample ID: 810-205778-4**

No Detections.

Client Sample ID: MW-42 — **Lab Sample ID: 810-205778-5**

No Detections.

Client Sample ID: MW-30 — **Lab Sample ID: 810-205778-6**

No Detections.

Client Sample ID: MW-07 — **Lab Sample ID: 810-205778-7**

No Detections.

Client Sample ID: MW-43 — **Lab Sample ID: 810-205778-8**

No Detections.

Client Sample ID: MW-20 — **Lab Sample ID: 810-205778-9**

No Detections.

Client Sample ID: MW-17 — **Lab Sample ID: 810-205778-10**

No Detections.

Client Sample ID: MW-18 — **Lab Sample ID: 810-205778-11**

No Detections.

Client Sample ID: MWT-18 — **Lab Sample ID: 810-205778-12**

No Detections.

Client Sample ID: MW-37 — **Lab Sample ID: 810-205778-13**

No Detections.

Client Sample ID: MW-38 — **Lab Sample ID: 810-205778-14**

No Detections.

Client Sample ID: MW-36 — **Lab Sample ID: 810-205778-15**

No Detections.

Client Sample ID: MW01RB — **Lab Sample ID: 810-205778-16**

No Detections.

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Trace Analytical Laboratories
Project/Site: 26H0719 Harbor Island

Job ID: 810-205778-1

Client Sample ID: MW-01R — **Lab Sample ID: 810-205778-17**

No Detections.

Client Sample ID: MW-13 — **Lab Sample ID: 810-205778-18**

No Detections.

Client Sample ID: MW-16 — **Lab Sample ID: 810-205778-19**

No Detections.

Client Sample ID: MWT-16 — **Lab Sample ID: 810-205778-20**

No Detections.

Client Sample ID: MW-39 — **Lab Sample ID: 810-205778-21**

No Detections.

Client Sample ID: MW-02 — **Lab Sample ID: 810-205778-22**

No Detections.

Client Sample ID: MW-11 — **Lab Sample ID: 810-205778-23**

No Detections.

Client Sample ID: MW-06 — **Lab Sample ID: 810-205778-24**

No Detections.

Client Sample ID: MW-34 — **Lab Sample ID: 810-205778-25**

No Detections.

Client Sample ID: MW-19 — **Lab Sample ID: 810-205778-26**

No Detections.

Client Sample ID: MW-32 — **Lab Sample ID: 810-205778-27**

No Detections.

Client Sample ID: MW-08 — **Lab Sample ID: 810-205778-28**

No Detections.

Client Sample ID: MW-28 — **Lab Sample ID: 810-205778-29**

No Detections.

Client Sample ID: MW-27 — **Lab Sample ID: 810-205778-30**

No Detections.

Client Sample ID: MW-12 — **Lab Sample ID: 810-205778-31**

No Detections.

Client Sample ID: MW-33 — **Lab Sample ID: 810-205778-32**

No Detections.

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Trace Analytical Laboratories
Project/Site: 26H0719 Harbor Island

Job ID: 810-205778-1

Client Sample ID: MW-03 — Lab Sample ID: 810-205778-33

No Detections.

Client Sample ID: MW-04R — Lab Sample ID: 810-205778-34

No Detections.

Client Sample ID: MW-31 — Lab Sample ID: 810-205778-35

No Detections.

Client Sample ID: MW-04 — Lab Sample ID: 810-205778-36

No Detections.

Client Sample ID: SG-02 — Lab Sample ID: 810-205778-37

No Detections.

Client Sample ID: SG-07 — Lab Sample ID: 810-205778-38

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-41

Lab Sample ID: 810-205778-1

Date Collected: 08/10/26 12:38

Matrix: Ground Water

Date Received: 08/19/26 09:00

Method: EPA 903.0 - Radium-226 (GFPC) for Drinking Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0900	U	0.215	0.215	1.00	0.258	pCi/L	08/27/26 16:24	09/01/26 10:18	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*96.6*		*30 - 110*	*08/27/26 16:24*	*09/01/26 10:18*	*1*

Method: EPA 904.0 - Radium-228 (GFPC) for Drinking Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0267	U *	0.523	0.523	1.00	0.577	pCi/L	08/21/26 19:07	09/16/26 12:08	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.0*		*30 - 110*	*08/21/26 19:07*	*09/16/26 12:08*	*1*
Y Carrier	*80.7*		*30 - 110*	*08/21/26 19:07*	*09/16/26 12:08*	*1*

Method: EETSTL Ra226_Ra228 P - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.117	U	0.565	0.565	5.00	0.577	pCi/L		09/17/26 10:06	1

Client Sample ID: MW-09

Lab Sample ID: 810-205778-2

Date Collected: 08/10/26 13:46

Matrix: Ground Water

Date Received: 08/19/26 09:00

Method: EPA 903.0 - Radium-226 (GFPC) for Drinking Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.118	U	0.215	0.215	1.00	0.248	pCi/L	08/27/26 16:24	09/01/26 10:18	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.2*		*30 - 110*	*08/27/26 16:24*	*09/01/26 10:18*	*1*

Method: EPA 904.0 - Radium-228 (GFPC) for Drinking Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.194	U *	0.466	0.466	1.00	0.495	pCi/L	08/21/26 19:07	09/16/26 12:08	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.6*		*30 - 110*	*08/21/26 19:07*	*09/16/26 12:08*	*1*
Y Carrier	*84.9*		*30 - 110*	*08/21/26 19:07*	*09/16/26 12:08*	*1*

Method: EETSTL Ra226_Ra228 P - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.312	U	0.513	0.513	5.00	0.495	pCi/L		09/17/26 10:06	1

Client Sample ID: MW-10

Lab Sample ID: 810-205778-3

Date Collected: 08/10/26 15:10

Matrix: Ground Water

Date Received: 08/19/26 09:00

Method: EPA 903.0 - Radium-226 (GFPC) for Drinking Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.352		0.314	0.315	1.00	0.295	pCi/L	08/27/26 16:24	09/01/26 10:18	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.7*		*30 - 110*	*08/27/26 16:24*	*09/01/26 10:18*	*1*

Method: EPA 904.0 - Radium-228 (GFPC) for Drinking Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.863	*	0.649	0.653	1.00	0.608	pCi/L	08/21/26 19:07	09/16/26 12:08	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.2*		*30 - 110*	*08/21/26 19:07*	*09/16/26 12:08*	*1*
Y Carrier	*80.7*		*30 - 110*	*08/21/26 19:07*	*09/16/26 12:08*	*1*

Method: EETSTL Ra226_Ra228 P - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.21		0.721	0.725	5.00	0.608	pCi/L		09/17/26 10:06	1

Client Sample ID: MWT-10

Lab Sample ID: 810-205778-4

Date Collected: 08/10/26 15:10

Matrix: Ground Water

Date Received: 08/19/26 09:00

Method: EPA 903.0 - Radium-226 (GFPC) for Drinking Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.391		0.300	0.302	1.00	0.264	pCi/L	08/27/26 16:24	09/01/26 10:18	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*98.3*		*30 - 110*	*08/27/26 16:24*	*09/01/26 10:18*	*1*

Method: EPA 904.0 - Radium-228 (GFPC) for Drinking Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.479	U *	0.582	0.584	1.00	0.582	pCi/L	08/21/26 19:07	09/16/26 12:08	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.0*		*30 - 110*	*08/21/26 19:07*	*09/16/26 12:08*	*1*
Y Carrier	*82.6*		*30 - 110*	*08/21/26 19:07*	*09/16/26 12:08*	*1*

Method: EETSTL Ra226_Ra228 P - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.870		0.655	0.657	5.00	0.582	pCi/L		09/17/26 10:06	1

Client Sample ID: MW-42

Lab Sample ID: 810-205778-5

Date Collected: 08/10/26 15:15

Matrix: Ground Water

Date Received: 08/19/26 09:00

Method: EPA 903.0 - Radium-226 (GFPC) for Drinking Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.238	U	0.260	0.261	1.00	0.262	pCi/L	08/27/26 16:24	09/01/26 10:18	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.0*		*30 - 110*	*08/27/26 16:24*	*09/01/26 10:18*	*1*

Method: EPA 904.0 - Radium-228 (GFPC) for Drinking Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**0.762**	*	0.571	0.575	1.00	0.533	pCi/L	08/21/26 19:07	09/16/26 12:08	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.7*		*30 - 110*	*08/21/26 19:07*	*09/16/26 12:08*	*1*
Y Carrier	*81.9*		*30 - 110*	*08/21/26 19:07*	*09/16/26 12:08*	*1*

Method: EETSTL Ra226_Ra228 P - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	**1.00**		0.627	0.631	5.00	0.533	pCi/L		09/17/26 10:06	1

Client Sample ID: MW-30

Lab Sample ID: 810-205778-6

Date Collected: 08/11/26 09:00

Matrix: Ground Water

Date Received: 08/19/26 09:00

Method: EPA 903.0 - Radium-226 (GFPC) for Drinking Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.286	U	0.306	0.307	1.00	0.303	pCi/L	08/27/26 16:24	09/01/26 10:18	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*97.7*		*30 - 110*	*08/27/26 16:24*	*09/01/26 10:18*	*1*

Method: EPA 904.0 - Radium-228 (GFPC) for Drinking Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0193	U *	0.449	0.449	1.00	0.509	pCi/L	08/21/26 19:07	09/16/26 12:08	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.9*		*30 - 110*	*08/21/26 19:07*	*09/16/26 12:08*	*1*
Y Carrier	*83.0*		*30 - 110*	*08/21/26 19:07*	*09/16/26 12:08*	*1*

Method: EETSTL Ra226_Ra228 P - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.286	U	0.543	0.544	5.00	0.509	pCi/L		09/17/26 10:06	1

Client Sample ID: MW-07

Lab Sample ID: 810-205778-7

Date Collected: 08/11/26 10:15

Matrix: Ground Water

Date Received: 08/19/26 09:00

Method: EPA 903.0 - Radium-226 (GFPC) for Drinking Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.516**		0.437	0.439	1.00	0.411	pCi/L	08/27/26 16:24	09/01/26 10:18	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*95.4*		*30 - 110*	*08/27/26 16:24*	*09/01/26 10:18*	*1*

Method: EPA 904.0 - Radium-228 (GFPC) for Drinking Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**0.813**	*	0.561	0.566	1.00	0.515	pCi/L	08/21/26 19:07	09/16/26 12:08	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.2*		*30 - 110*	*08/21/26 19:07*	*09/16/26 12:08*	*1*
Y Carrier	*83.7*		*30 - 110*	*08/21/26 19:07*	*09/16/26 12:08*	*1*

Method: EETSTL Ra226_Ra228 P - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	**1.33**		0.711	0.716	5.00	0.515	pCi/L		09/17/26 10:06	1

Client Sample ID: MW-43

Lab Sample ID: 810-205778-8

Date Collected: 08/11/26 11:20

Matrix: Ground Water

Date Received: 08/19/26 09:00

Method: EPA 903.0 - Radium-226 (GFPC) for Drinking Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.214	U	0.246	0.246	1.00	0.250	pCi/L	08/27/26 16:24	09/01/26 10:18	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*97.4*		*30 - 110*	*08/27/26 16:24*	*09/01/26 10:18*	*1*

Method: EPA 904.0 - Radium-228 (GFPC) for Drinking Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.207	U *	0.485	0.486	1.00	0.515	pCi/L	08/21/26 19:07	09/16/26 12:08	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.2*		*30 - 110*	*08/21/26 19:07*	*09/16/26 12:08*	*1*
Y Carrier	*82.6*		*30 - 110*	*08/21/26 19:07*	*09/16/26 12:08*	*1*

Method: EETSTL Ra226_Ra228 P - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.422	U	0.544	0.545	5.00	0.515	pCi/L		09/17/26 10:06	1

Client Sample ID: MW-20

Lab Sample ID: 810-205778-9

Date Collected: 08/11/26 12:45

Matrix: Ground Water

Date Received: 08/19/26 09:00

Method: EPA 903.0 - Radium-226 (GFPC) for Drinking Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.340		0.286	0.288	1.00	0.262	pCi/L	08/27/26 16:24	09/01/26 10:18	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.7*		*30 - 110*	*08/27/26 16:24*	*09/01/26 10:18*	*1*

Method: EPA 904.0 - Radium-228 (GFPC) for Drinking Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.269	U *	0.415	0.415	1.00	0.507	pCi/L	08/21/26 19:07	09/16/26 12:08	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.9*		*30 - 110*	*08/21/26 19:07*	*09/16/26 12:08*	*1*
Y Carrier	*86.0*		*30 - 110*	*08/21/26 19:07*	*09/16/26 12:08*	*1*

Method: EETSTL Ra226_Ra228 P - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.340	U	0.504	0.505	5.00	0.507	pCi/L		09/17/26 10:06	1

Client Sample ID: MW-17

Lab Sample ID: 810-205778-10

Date Collected: 08/11/26 13:50

Matrix: Ground Water

Date Received: 08/19/26 09:00

Method: EPA 903.0 - Radium-226 (GFPC) for Drinking Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.419		0.308	0.311	1.00	0.269	pCi/L	08/27/26 16:24	09/01/26 10:18	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.9*		*30 - 110*	*08/27/26 16:24*	*09/01/26 10:18*	*1*

Method: EPA 904.0 - Radium-228 (GFPC) for Drinking Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.851	*	0.619	0.624	1.00	0.577	pCi/L	08/21/26 19:07	09/16/26 12:08	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.0*		*30 - 110*	*08/21/26 19:07*	*09/16/26 12:08*	*1*
Y Carrier	*82.6*		*30 - 110*	*08/21/26 19:07*	*09/16/26 12:08*	*1*

Method: EETSTL Ra226_Ra228 P - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.27		0.691	0.697	5.00	0.577	pCi/L		09/17/26 10:06	1

Client Sample ID: MW-18

Lab Sample ID: 810-205778-11

Date Collected: 08/11/26 15:05

Matrix: Ground Water

Date Received: 08/19/26 09:00

Method: EPA 903.0 - Radium-226 (GFPC) for Drinking Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0458	U	0.140	0.140	1.00	0.231	pCi/L	08/27/26 16:24	09/01/26 10:19	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.9*		*30 - 110*	*08/27/26 16:24*	*09/01/26 10:19*	*1*

Method: EPA 904.0 - Radium-228 (GFPC) for Drinking Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**0.609**	*	0.479	0.482	1.00	0.447	pCi/L	08/21/26 19:07	09/16/26 12:09	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*86.3*		*30 - 110*	*08/21/26 19:07*	*09/16/26 12:09*	*1*
Y Carrier	*82.2*		*30 - 110*	*08/21/26 19:07*	*09/16/26 12:09*	*1*

Method: EETSTL Ra226_Ra228 P - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	**0.609**		0.499	0.502	5.00	0.447	pCi/L		09/17/26 10:06	1

Client Sample ID: MWT-18

Lab Sample ID: 810-205778-12

Date Collected: 08/11/26 15:30

Matrix: Ground Water

Date Received: 08/19/26 09:00

Method: EPA 903.0 - Radium-226 (GFPC) for Drinking Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.423**		0.317	0.319	1.00	0.279	pCi/L	08/27/26 16:24	09/01/26 10:19	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*95.7*		*30 - 110*	*08/27/26 16:24*	*09/01/26 10:19*	*1*

Method: EPA 904.0 - Radium-228 (GFPC) for Drinking Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**0.565**	*	0.567	0.569	1.00	0.554	pCi/L	08/21/26 19:07	09/16/26 12:09	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*74.6*		*30 - 110*	*08/21/26 19:07*	*09/16/26 12:09*	*1*
Y Carrier	*82.6*		*30 - 110*	*08/21/26 19:07*	*09/16/26 12:09*	*1*

Method: EETSTL Ra226_Ra228 P - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	**0.988**		0.650	0.652	5.00	0.554	pCi/L		09/17/26 10:06	1

Client Sample ID: MW-37

Lab Sample ID: 810-205778-13

Date Collected: 08/11/26 09:22

Matrix: Ground Water

Date Received: 08/19/26 09:00

Method: EPA 903.0 - Radium-226 (GFPC) for Drinking Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.921		0.440	0.448	1.00	0.318	pCi/L	08/27/26 16:24	09/01/26 10:19	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.5*		*30 - 110*	*08/27/26 16:24*	*09/01/26 10:19*	*1*

Method: EPA 904.0 - Radium-228 (GFPC) for Drinking Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0641	U *	0.471	0.471	1.00	0.536	pCi/L	08/21/26 19:07	09/16/26 12:09	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.3*		*30 - 110*	*08/21/26 19:07*	*09/16/26 12:09*	*1*
Y Carrier	*79.6*		*30 - 110*	*08/21/26 19:07*	*09/16/26 12:09*	*1*

Method: EETSTL Ra226_Ra228 P - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.921		0.645	0.650	5.00	0.536	pCi/L		09/17/26 10:06	1

Client Sample ID: MW-38

Lab Sample ID: 810-205778-14

Date Collected: 08/11/26 09:50

Matrix: Ground Water

Date Received: 08/19/26 09:00

Method: EPA 903.0 - Radium-226 (GFPC) for Drinking Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.382		0.352	0.353	1.00	0.332	pCi/L	08/31/26 10:36	09/02/26 17:59	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*59.0*		*30 - 110*	*08/31/26 10:36*	*09/02/26 17:59*	*1*

Method: EPA 904.0 - Radium-228 (GFPC) for Drinking Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.156	U *	0.433	0.434	1.00	0.468	pCi/L	08/21/26 19:07	09/16/26 12:10	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.2*		*30 - 110*	*08/21/26 19:07*	*09/16/26 12:10*	*1*
Y Carrier	*80.4*		*30 - 110*	*08/21/26 19:07*	*09/16/26 12:10*	*1*

Method: EETSTL Ra226_Ra228 P - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.538		0.558	0.559	5.00	0.468	pCi/L		09/17/26 10:06	1

Client Sample ID: MW-36

Lab Sample ID: 810-205778-15

Date Collected: 08/11/26 10:38

Matrix: Ground Water

Date Received: 08/19/26 09:00

Method: EPA 903.0 - Radium-226 (GFPC) for Drinking Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.419		0.264	0.266	1.00	0.208	pCi/L	08/31/26 10:36	09/02/26 17:59	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*98.3*		*30 - 110*	*08/31/26 10:36*	*09/02/26 17:59*	*1*

Method: EPA 904.0 - Radium-228 (GFPC) for Drinking Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.667	*	0.502	0.506	1.00	0.466	pCi/L	08/21/26 19:07	09/16/26 12:10	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.8*		*30 - 110*	*08/21/26 19:07*	*09/16/26 12:10*	*1*
Y Carrier	*82.2*		*30 - 110*	*08/21/26 19:07*	*09/16/26 12:10*	*1*

Method: EETSTL Ra226_Ra228 P - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.09		0.567	0.572	5.00	0.466	pCi/L		09/17/26 10:06	1

Client Sample ID: MW01RB

Lab Sample ID: 810-205778-16

Date Collected: 08/11/26 12:40

Matrix: Ground Water

Date Received: 08/19/26 09:00

Method: EPA 903.0 - Radium-226 (GFPC) for Drinking Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.801		0.381	0.388	1.00	0.276	pCi/L	08/31/26 10:36	09/02/26 21:17	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*95.2*		*30 - 110*	*08/31/26 10:36*	*09/02/26 21:17*	*1*

Method: EPA 904.0 - Radium-228 (GFPC) for Drinking Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.16	*	0.504	0.516	1.00	0.403	pCi/L	08/21/26 19:07	09/16/26 12:11	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.9*		*30 - 110*	*08/21/26 19:07*	*09/16/26 12:11*	*1*
Y Carrier	*86.4*		*30 - 110*	*08/21/26 19:07*	*09/16/26 12:11*	*1*

Method: EETSTL Ra226_Ra228 P - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.96		0.632	0.646	5.00	0.403	pCi/L		09/17/26 10:06	1

Client Sample ID: MW-01R

Lab Sample ID: 810-205778-17

Date Collected: 08/11/26 13:40

Matrix: Ground Water

Date Received: 08/19/26 09:00

Method: EPA 903.0 - Radium-226 (GFPC) for Drinking Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.172	U	0.267	0.268	1.00	0.293	pCi/L	08/31/26 10:36	09/02/26 21:16	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*74.1*		*30 - 110*	*08/31/26 10:36*	*09/02/26 21:16*	*1*

Method: EPA 904.0 - Radium-228 (GFPC) for Drinking Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**1.05**		0.900	0.905	1.00	0.862	pCi/L	08/25/26 08:38	09/17/26 11:53	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.8*		*30 - 110*	*08/25/26 08:38*	*09/17/26 11:53*	*1*
Y Carrier	*84.9*		*30 - 110*	*08/25/26 08:38*	*09/17/26 11:53*	*1*

Method: EETSTL Ra226_Ra228 P - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	**1.22**		0.939	0.944	5.00	0.862	pCi/L		09/17/26 17:03	1

Client Sample ID: MW-13

Lab Sample ID: 810-205778-18

Date Collected: 08/11/26 15:02

Matrix: Ground Water

Date Received: 08/19/26 09:00

Method: EPA 903.0 - Radium-226 (GFPC) for Drinking Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.309**		0.278	0.279	1.00	0.262	pCi/L	08/31/26 10:36	09/02/26 21:17	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*96.9*		*30 - 110*	*08/31/26 10:36*	*09/02/26 21:17*	*1*

Method: EPA 904.0 - Radium-228 (GFPC) for Drinking Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**1.24**		0.635	0.645	1.00	0.548	pCi/L	08/25/26 08:38	09/17/26 11:53	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*67.8*		*30 - 110*	*08/25/26 08:38*	*09/17/26 11:53*	*1*
Y Carrier	*82.6*		*30 - 110*	*08/25/26 08:38*	*09/17/26 11:53*	*1*

Method: EETSTL Ra226_Ra228 P - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	**1.55**		0.693	0.703	5.00	0.548	pCi/L		09/17/26 17:03	1

Client Sample ID: MW-16

Lab Sample ID: 810-205778-19

Date Collected: 08/11/26 16:30

Matrix: Ground Water

Date Received: 08/19/26 09:00

Method: EPA 903.0 - Radium-226 (GFPC) for Drinking Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.356		0.275	0.277	1.00	0.245	pCi/L	08/31/26 10:36	09/02/26 21:17	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*105*		*30 - 110*	*08/31/26 10:36*	*09/02/26 21:17*	*1*

Method: EPA 904.0 - Radium-228 (GFPC) for Drinking Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.15		0.657	0.665	1.00	0.580	pCi/L	08/25/26 08:38	09/17/26 11:53	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*76.9*		*30 - 110*	*08/25/26 08:38*	*09/17/26 11:53*	*1*
Y Carrier	*86.4*		*30 - 110*	*08/25/26 08:38*	*09/17/26 11:53*	*1*

Method: EETSTL Ra226_Ra228 P - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.51		0.712	0.720	5.00	0.580	pCi/L		09/17/26 17:03	1

Client Sample ID: MWT-16

Lab Sample ID: 810-205778-20

Date Collected: 08/11/26 16:30

Matrix: Ground Water

Date Received: 08/19/26 09:00

Method: EPA 903.0 - Radium-226 (GFPC) for Drinking Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.375		0.297	0.298	1.00	0.269	pCi/L	08/31/26 10:36	09/02/26 21:16	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*101*		*30 - 110*	*08/31/26 10:36*	*09/02/26 21:16*	*1*

Method: EPA 904.0 - Radium-228 (GFPC) for Drinking Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.12		0.663	0.671	1.00	0.594	pCi/L	08/25/26 08:38	09/17/26 11:53	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.3*		*30 - 110*	*08/25/26 08:38*	*09/17/26 11:53*	*1*
Y Carrier	*83.0*		*30 - 110*	*08/25/26 08:38*	*09/17/26 11:53*	*1*

Method: EETSTL Ra226_Ra228 P - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.50		0.726	0.734	5.00	0.594	pCi/L		09/17/26 17:03	1

Client Sample ID: MW-39

Lab Sample ID: 810-205778-21

Date Collected: 08/12/26 10:00

Matrix: Ground Water

Date Received: 08/19/26 09:00

Method: EPA 903.0 - Radium-226 (GFPC) for Drinking Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.317		0.278	0.279	1.00	0.259	pCi/L	08/31/26 10:36	09/02/26 21:17	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*97.4*		*30 - 110*	*08/31/26 10:36*	*09/02/26 21:17*	*1*

Method: EPA 904.0 - Radium-228 (GFPC) for Drinking Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.196	U	0.489	0.489	1.00	0.519	pCi/L	08/25/26 08:38	09/17/26 11:55	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*82.3*		*30 - 110*	*08/25/26 08:38*	*09/17/26 11:55*	*1*
Y Carrier	*84.9*		*30 - 110*	*08/25/26 08:38*	*09/17/26 11:55*	*1*

Method: EETSTL Ra226_Ra228 P - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.513	U	0.562	0.563	5.00	0.519	pCi/L		09/17/26 17:03	1

Client Sample ID: MW-02

Lab Sample ID: 810-205778-22

Date Collected: 08/12/26 11:44

Matrix: Ground Water

Date Received: 08/19/26 09:00

Method: EPA 903.0 - Radium-226 (GFPC) for Drinking Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.793		0.553	0.558	1.00	0.464	pCi/L	08/31/26 10:36	09/02/26 21:16	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.5*		*30 - 110*	*08/31/26 10:36*	*09/02/26 21:16*	*1*

Method: EPA 904.0 - Radium-228 (GFPC) for Drinking Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.70	G	1.33	1.34	1.00	1.25	pCi/L	08/25/26 08:38	09/17/26 11:55	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*86.9*		*30 - 110*	*08/25/26 08:38*	*09/17/26 11:55*	*1*
Y Carrier	*83.4*		*30 - 110*	*08/25/26 08:38*	*09/17/26 11:55*	*1*

Method: EETSTL Ra226_Ra228 P - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	2.49		1.44	1.45	5.00	1.25	pCi/L		09/17/26 17:03	1

Client Sample ID: MW-11

Lab Sample ID: 810-205778-23

Date Collected: 08/12/26 13:40

Matrix: Ground Water

Date Received: 08/19/26 09:00

Method: EPA 903.0 - Radium-226 (GFPC) for Drinking Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.770		0.336	0.343	1.00	0.216	pCi/L	08/31/26 10:36	09/02/26 21:17	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*100*		*30 - 110*	*08/31/26 10:36*	*09/02/26 21:17*	*1*

Method: EPA 904.0 - Radium-228 (GFPC) for Drinking Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.26		0.561	0.573	1.00	0.457	pCi/L	08/25/26 08:38	09/17/26 11:55	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.5*		*30 - 110*	*08/25/26 08:38*	*09/17/26 11:55*	*1*
Y Carrier	*83.0*		*30 - 110*	*08/25/26 08:38*	*09/17/26 11:55*	*1*

Method: EETSTL Ra226_Ra228 P - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	2.03		0.654	0.668	5.00	0.457	pCi/L		09/17/26 17:03	1

Client Sample ID: MW-06

Lab Sample ID: 810-205778-24

Date Collected: 08/12/26 14:48

Matrix: Ground Water

Date Received: 08/19/26 09:00

Method: EPA 903.0 - Radium-226 (GFPC) for Drinking Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.441		0.266	0.269	1.00	0.205	pCi/L	08/31/26 10:36	09/02/26 21:17	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*96.0*		*30 - 110*	*08/31/26 10:36*	*09/02/26 21:17*	*1*

Method: EPA 904.0 - Radium-228 (GFPC) for Drinking Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.04		0.661	0.668	1.00	0.600	pCi/L	08/25/26 08:38	09/17/26 11:55	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*76.4*		*30 - 110*	*08/25/26 08:38*	*09/17/26 11:55*	*1*
Y Carrier	*82.6*		*30 - 110*	*08/25/26 08:38*	*09/17/26 11:55*	*1*

Method: EETSTL Ra226_Ra228 P - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.48		0.713	0.720	5.00	0.600	pCi/L		09/17/26 17:03	1

Client Sample ID: MW-34

Lab Sample ID: 810-205778-25

Date Collected: 08/12/26 16:02

Matrix: Ground Water

Date Received: 08/19/26 09:00

Method: EPA 903.0 - Radium-226 (GFPC) for Drinking Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.930		0.376	0.386	1.00	0.244	pCi/L	08/31/26 10:36	09/02/26 21:16	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.9*		*30 - 110*	*08/31/26 10:36*	*09/02/26 21:16*	*1*

Method: EPA 904.0 - Radium-228 (GFPC) for Drinking Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.97		0.866	0.885	1.00	0.696	pCi/L	08/25/26 08:38	09/17/26 11:55	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*79.2*		*30 - 110*	*08/25/26 08:38*	*09/17/26 11:55*	*1*
Y Carrier	*86.0*		*30 - 110*	*08/25/26 08:38*	*09/17/26 11:55*	*1*

Method: EETSTL Ra226_Ra228 P - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	2.90		0.944	0.966	5.00	0.696	pCi/L		09/17/26 17:03	1

Client Sample ID: MW-19

Lab Sample ID: 810-205778-26

Date Collected: 08/12/26 09:35

Matrix: Ground Water

Date Received: 08/19/26 09:00

Method: EPA 903.0 - Radium-226 (GFPC) for Drinking Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.331		0.254	0.255	1.00	0.224	pCi/L	08/31/26 10:36	09/02/26 21:17	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*100*		*30 - 110*	*08/31/26 10:36*	*09/02/26 21:17*	*1*

Method: EPA 904.0 - Radium-228 (GFPC) for Drinking Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.736		0.464	0.469	1.00	0.414	pCi/L	08/25/26 08:38	09/17/26 11:55	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*69.2*		*30 - 110*	*08/25/26 08:38*	*09/17/26 11:55*	*1*
Y Carrier	*83.7*		*30 - 110*	*08/25/26 08:38*	*09/17/26 11:55*	*1*

Method: EETSTL Ra226_Ra228 P - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.07		0.529	0.534	5.00	0.414	pCi/L		09/17/26 17:03	1

Client Sample ID: MW-32

Lab Sample ID: 810-205778-27

Date Collected: 08/12/26 10:40

Matrix: Ground Water

Date Received: 08/19/26 09:00

Method: EPA 903.0 - Radium-226 (GFPC) for Drinking Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.301		0.179	0.181	1.00	0.140	pCi/L	09/02/26 09:04	09/08/26 22:19	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.6*		*30 - 110*	*09/02/26 09:04*	*09/08/26 22:19*	*1*

Method: EPA 904.0 - Radium-228 (GFPC) for Drinking Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.650		0.445	0.449	1.00	0.404	pCi/L	08/25/26 08:38	09/17/26 11:56	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*71.8*		*30 - 110*	*08/25/26 08:38*	*09/17/26 11:56*	*1*
Y Carrier	*81.9*		*30 - 110*	*08/25/26 08:38*	*09/17/26 11:56*	*1*

Method: EETSTL Ra226_Ra228 P - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.951		0.480	0.484	5.00	0.404	pCi/L		09/17/26 17:03	1

Client Sample ID: MW-08

Lab Sample ID: 810-205778-28

Date Collected: 08/12/26 12:00

Matrix: Ground Water

Date Received: 08/19/26 09:00

Method: EPA 903.0 - Radium-226 (GFPC) for Drinking Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.345		0.198	0.200	1.00	0.157	pCi/L	09/02/26 09:04	09/08/26 22:18	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.6*		*30 - 110*	*09/02/26 09:04*	*09/08/26 22:18*	*1*

Method: EPA 904.0 - Radium-228 (GFPC) for Drinking Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.136	U	0.352	0.352	1.00	0.375	pCi/L	08/25/26 08:38	09/17/26 11:56	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*86.0*		*30 - 110*	*08/25/26 08:38*	*09/17/26 11:56*	*1*
Y Carrier	*81.5*		*30 - 110*	*08/25/26 08:38*	*09/17/26 11:56*	*1*

Method: EETSTL Ra226_Ra228 P - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.481		0.404	0.405	5.00	0.375	pCi/L		09/17/26 17:03	1

Client Sample ID: MW-28

Lab Sample ID: 810-205778-29

Date Collected: 08/12/26 13:55

Matrix: Ground Water

Date Received: 08/19/26 09:00

Method: EPA 903.0 - Radium-226 (GFPC) for Drinking Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.338		0.193	0.196	1.00	0.153	pCi/L	09/02/26 09:04	09/08/26 22:18	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.0*		*30 - 110*	*09/02/26 09:04*	*09/08/26 22:18*	*1*

Method: EPA 904.0 - Radium-228 (GFPC) for Drinking Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	2.98	G	1.47	1.50	1.00	1.26	pCi/L	08/25/26 08:38	09/17/26 11:56	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*54.7*		*30 - 110*	*08/25/26 08:38*	*09/17/26 11:56*	*1*
Y Carrier	*80.4*		*30 - 110*	*08/25/26 08:38*	*09/17/26 11:56*	*1*

Method: EETSTL Ra226_Ra228 P - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	3.32		1.48	1.51	5.00	1.26	pCi/L		09/17/26 17:03	1

Client Sample ID: MW-27

Lab Sample ID: 810-205778-30

Date Collected: 08/12/26 15:10

Matrix: Ground Water

Date Received: 08/19/26 09:00

Method: EPA 903.0 - Radium-226 (GFPC) for Drinking Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.446		0.181	0.185	1.00	0.116	pCi/L	09/02/26 08:58	09/14/26 10:12	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*83.8*		*30 - 110*	*09/02/26 08:58*	*09/14/26 10:12*	*1*

Method: EPA 904.0 - Radium-228 (GFPC) for Drinking Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	2.75		1.01	1.04	1.00	0.773	pCi/L	08/25/26 08:38	09/17/26 11:56	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*78.6*		*30 - 110*	*08/25/26 08:38*	*09/17/26 11:56*	*1*
Y Carrier	*82.6*		*30 - 110*	*08/25/26 08:38*	*09/17/26 11:56*	*1*

Method: EETSTL Ra226_Ra228 P - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	3.19		1.03	1.06	5.00	0.773	pCi/L		09/17/26 17:03	1

Client Sample ID: MW-12

Lab Sample ID: 810-205778-31

Date Collected: 08/12/26 16:30

Matrix: Ground Water

Date Received: 08/19/26 09:00

Method: EPA 903.0 - Radium-226 (GFPC) for Drinking Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.245		0.187	0.188	1.00	0.172	pCi/L	09/02/26 08:58	09/14/26 12:11	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.6*		*30 - 110*	*09/02/26 08:58*	*09/14/26 12:11*	*1*

Method: EPA 904.0 - Radium-228 (GFPC) for Drinking Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0350	U	0.345	0.345	1.00	0.393	pCi/L	08/25/26 08:38	09/17/26 11:56	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*70.7*		*30 - 110*	*08/25/26 08:38*	*09/17/26 11:56*	*1*
Y Carrier	*80.7*		*30 - 110*	*08/25/26 08:38*	*09/17/26 11:56*	*1*

Method: EETSTL Ra226_Ra228 P - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.280	U	0.392	0.393	5.00	0.393	pCi/L		09/17/26 17:03	1

Client Sample ID: MW-33

Lab Sample ID: 810-205778-32

Date Collected: 08/13/26 08:52

Matrix: Ground Water

Date Received: 08/19/26 09:00

Method: EPA 903.0 - Radium-226 (GFPC) for Drinking Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.375		0.161	0.164	1.00	0.0997	pCi/L	09/02/26 08:58	09/14/26 12:12	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.0*		*30 - 110*	*09/02/26 08:58*	*09/14/26 12:12*	*1*

Method: EPA 904.0 - Radium-228 (GFPC) for Drinking Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.74		0.896	0.911	1.00	0.752	pCi/L	08/25/26 08:38	09/17/26 11:56	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*74.4*		*30 - 110*	*08/25/26 08:38*	*09/17/26 11:56*	*1*
Y Carrier	*81.5*		*30 - 110*	*08/25/26 08:38*	*09/17/26 11:56*	*1*

Method: EETSTL Ra226_Ra228 P - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	2.12		0.910	0.926	5.00	0.752	pCi/L		09/17/26 17:03	1

Client Sample ID: MW-03

Lab Sample ID: 810-205778-33

Date Collected: 08/13/26 10:34

Matrix: Ground Water

Date Received: 08/19/26 09:00

Method: EPA 903.0 - Radium-226 (GFPC) for Drinking Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.400		0.168	0.172	1.00	0.111	pCi/L	09/02/26 08:58	09/14/26 12:12	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.0*		*30 - 110*	*09/02/26 08:58*	*09/14/26 12:12*	*1*

Method: EPA 904.0 - Radium-228 (GFPC) for Drinking Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	2.65		1.04	1.07	1.00	0.795	pCi/L	08/25/26 08:38	09/17/26 11:57	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*74.1*		*30 - 110*	*08/25/26 08:38*	*09/17/26 11:57*	*1*
Y Carrier	*81.5*		*30 - 110*	*08/25/26 08:38*	*09/17/26 11:57*	*1*

Method: EETSTL Ra226_Ra228 P - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	3.05		1.05	1.08	5.00	0.795	pCi/L		09/17/26 17:03	1

Client Sample ID: MW-04R

Lab Sample ID: 810-205778-34

Date Collected: 08/13/26 12:00

Matrix: Ground Water

Date Received: 08/19/26 09:00

Method: EPA 903.0 - Radium-226 (GFPC) for Drinking Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.450		0.170	0.175	1.00	0.105	pCi/L	09/02/26 08:58	09/14/26 12:04	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*95.7*		*30 - 110*	*09/02/26 08:58*	*09/14/26 12:04*	*1*

Method: EPA 904.0 - Radium-228 (GFPC) for Drinking Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.39		0.925	0.934	1.00	0.833	pCi/L	08/25/26 08:38	09/17/26 11:57	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*67.5*		*30 - 110*	*08/25/26 08:38*	*09/17/26 11:57*	*1*
Y Carrier	*83.0*		*30 - 110*	*08/25/26 08:38*	*09/17/26 11:57*	*1*

Method: EETSTL Ra226_Ra228 P - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.84		0.940	0.950	5.00	0.833	pCi/L		09/17/26 17:03	1

Client Sample ID: MW-31

Lab Sample ID: 810-205778-35

Date Collected: 08/13/26 10:15

Matrix: Ground Water

Date Received: 08/19/26 09:00

Method: EPA 903.0 - Radium-226 (GFPC) for Drinking Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.362		0.171	0.174	1.00	0.125	pCi/L	09/02/26 08:58	09/14/26 12:18	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.9*		*30 - 110*	*09/02/26 08:58*	*09/14/26 12:18*	*1*

Method: EPA 904.0 - Radium-228 (GFPC) for Drinking Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.946		0.549	0.556	1.00	0.482	pCi/L	08/27/26 16:19	09/03/26 12:11	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.7*		*30 - 110*	*08/27/26 16:19*	*09/03/26 12:11*	*1*
Y Carrier	*82.2*		*30 - 110*	*08/27/26 16:19*	*09/03/26 12:11*	*1*

Method: EETSTL Ra226_Ra228 P - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.31		0.575	0.583	5.00	0.482	pCi/L		09/16/26 09:22	1

Client Sample ID: MW-04

Lab Sample ID: 810-205778-36

Date Collected: 08/13/26 12:10

Matrix: Ground Water

Date Received: 08/19/26 09:00

Method: EPA 903.0 - Radium-226 (GFPC) for Drinking Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.335		0.158	0.161	1.00	0.110	pCi/L	09/02/26 08:58	09/14/26 12:18	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.5*		*30 - 110*	*09/02/26 08:58*	*09/14/26 12:18*	*1*

Method: EPA 904.0 - Radium-228 (GFPC) for Drinking Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.206	U	0.599	0.600	1.00	0.703	pCi/L	08/27/26 16:19	09/03/26 15:14	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.6*		*30 - 110*	*08/27/26 16:19*	*09/03/26 15:14*	*1*
Y Carrier	*83.7*		*30 - 110*	*08/27/26 16:19*	*09/03/26 15:14*	*1*

Method: EETSTL Ra226_Ra228 P - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.335	U	0.619	0.621	5.00	0.703	pCi/L		09/16/26 09:22	1

Client Sample ID: SG-02

Lab Sample ID: 810-205778-37

Date Collected: 08/13/26 13:30

Matrix: Ground Water

Date Received: 08/19/26 09:00

Method: EPA 903.0 - Radium-226 (GFPC) for Drinking Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.283**		0.151	0.153	1.00	0.110	pCi/L	09/02/26 08:58	09/14/26 12:17	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*80.1*		*30 - 110*	*09/02/26 08:58*	*09/14/26 12:17*	*1*

Method: EPA 904.0 - Radium-228 (GFPC) for Drinking Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.623	U	0.842	0.844	1.00	0.854	pCi/L	08/27/26 16:19	09/03/26 12:11	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*82.1*		*30 - 110*	*08/27/26 16:19*	*09/03/26 12:11*	*1*
Y Carrier	*84.5*		*30 - 110*	*08/27/26 16:19*	*09/03/26 12:11*	*1*

Method: EETSTL Ra226_Ra228 P - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	**0.906**		0.855	0.858	5.00	0.854	pCi/L		09/16/26 09:22	1

Client Sample ID: SG-07

Lab Sample ID: 810-205778-38

Date Collected: 08/13/26 14:00

Matrix: Ground Water

Date Received: 08/19/26 09:00

Method: EPA 903.0 - Radium-226 (GFPC) for Drinking Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.233**		0.140	0.142	1.00	0.113	pCi/L	09/02/26 08:58	09/14/26 12:18	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*95.2*		*30 - 110*	*09/02/26 08:58*	*09/14/26 12:18*	*1*

Method: EPA 904.0 - Radium-228 (GFPC) for Drinking Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0357	U	0.456	0.456	1.00	0.508	pCi/L	08/27/26 16:19	09/03/26 12:10	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.9*		*30 - 110*	*08/27/26 16:19*	*09/03/26 12:10*	*1*
Y Carrier	*83.4*		*30 - 110*	*08/27/26 16:19*	*09/03/26 12:10*	*1*

Method: EETSTL Ra226_Ra228 P - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.269	U	0.477	0.478	5.00	0.508	pCi/L		09/16/26 09:22	1

Tracer/Carrier Summary

Client: Trace Analytical Laboratories
Project/Site: 26H0719 Harbor Island

Job ID: 810-205778-1

Method: 903.0 - Radium-226 (GFPC) for Drinking Water

Matrix: Ground Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)						
		Ba						
Lab Sample ID	Client Sample ID	(30-110)						
810-205778-1	MW-41	96.6						
810-205778-2	MW-09	91.2						
810-205778-3	MW-10	91.7						
810-205778-4	MWT-10	98.3						
810-205778-5	MW-42	84.0						
810-205778-6	MW-30	97.7						
810-205778-7	MW-07	95.4						
810-205778-8	MW-43	97.4						
810-205778-9	MW-20	89.7						
810-205778-10	MW-17	92.9						
810-205778-11	MW-18	92.9						
810-205778-11 DU	MW-18	97.2						
810-205778-12	MWT-18	95.7						
810-205778-12 DU	MWT-18	94.6						
810-205778-13	MW-37	85.5						
810-205778-14	MW-38	59.0						
810-205778-15	MW-36	98.3						
810-205778-15 DU	MW-36	99.7						
810-205778-16	MW01RB	95.2						
810-205778-17	MW-01R	74.1						
810-205778-18	MW-13	96.9						
810-205778-18 DU	MW-13	96.9						
810-205778-19	MW-16	105						
810-205778-20	MWT-16	101						
810-205778-21	MW-39	97.4						
810-205778-22	MW-02	91.5						
810-205778-23	MW-11	100						
810-205778-24	MW-06	96.0						
810-205778-25	MW-34	94.9						
810-205778-26	MW-19	100						
810-205778-27	MW-32	84.6						
810-205778-28	MW-08	88.6						
810-205778-29	MW-28	92.0						
810-205778-30	MW-27	83.8						
810-205778-31	MW-12	84.6						
810-205778-32	MW-33	84.0						
810-205778-33	MW-03	90.0						
810-205778-34	MW-04R	95.7						
810-205778-35	MW-31	88.9						
810-205778-36	MW-04	91.5						
810-205778-37	SG-02	80.1						
810-205778-38	SG-07	95.2						

Tracer/Carrier Legend

Ba = Ba Carrier

Tracer/Carrier Summary

Client: Trace Analytical Laboratories
Job ID: 810-205778-1
Project/Site: 26H0719 Harbor Island

Method: 903.0 - Radium-226 (GFPC) for Drinking Water

Matrix: Water **Prep Type: Total/NA**

		Percent Yield (Acceptance Limits)
		Ba
Lab Sample ID	Client Sample ID	(30-110)
LCS 160-788399/2-A	Lab Control Sample	92.3
LCS 160-788823/2-A	Lab Control Sample	97.2
LCS 160-789147/2-A	Lab Control Sample	96.9
LCS 160-789148/2-A	Lab Control Sample	89.5
MB 160-788399/1-A	Method Blank	97.7
MB 160-788823/1-A	Method Blank	87.7
MB 160-789147/1-A	Method Blank	93.7
MB 160-789148/1-A	Method Blank	92.0

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 904.0 - Radium-228 (GFPC) for Drinking Water

Matrix: Ground Water **Prep Type: Total/NA**

		Percent Yield (Acceptance Limits)	
		Ba	Y
Lab Sample ID	Client Sample ID	(30-110)	(30-110)
810-205778-1	MW-41	92.0	80.7
810-205778-2	MW-09	92.6	84.9
810-205778-3	MW-10	87.2	80.7
810-205778-4	MWT-10	88.0	82.6
810-205778-5	MW-42	91.7	81.9
810-205778-6	MW-30	90.9	83.0
810-205778-7	MW-07	91.2	83.7
810-205778-8	MW-43	91.2	82.6
810-205778-8 DU	MW-43	94.0	85.2
810-205778-9	MW-20	92.9	86.0
810-205778-10	MW-17	90.0	82.6
810-205778-10 DU	MW-17	92.6	83.4
810-205778-11	MW-18	86.3	82.2
810-205778-12	MWT-18	74.6	82.6
810-205778-13	MW-37	90.3	79.6
810-205778-14	MW-38	87.2	80.4
810-205778-15	MW-36	85.8	82.2
810-205778-16	MW01RB	92.9	86.4
810-205778-17	MW-01R	85.8	84.9
810-205778-18	MW-13	67.8	82.6
810-205778-18 DU	MW-13	70.4	83.4
810-205778-19	MW-16	76.9	86.4
810-205778-20	MWT-16	84.3	83.0
810-205778-21	MW-39	82.3	84.9
810-205778-22	MW-02	86.9	83.4
810-205778-23	MW-11	87.5	83.0
810-205778-24	MW-06	76.4	82.6
810-205778-25	MW-34	79.2	86.0
810-205778-26	MW-19	69.2	83.7
810-205778-27	MW-32	71.8	81.9
810-205778-28	MW-08	86.0	81.5
810-205778-29	MW-28	54.7	80.4
810-205778-30	MW-27	78.6	82.6

Tracer/Carrier Summary

Client: Trace Analytical Laboratories
Job ID: 810-205778-1
Project/Site: 26H0719 Harbor Island

Method: 904.0 - Radium-228 (GFPC) for Drinking Water (Continued)

Matrix: Ground Water **Prep Type: Total/NA**

		Percent Yield (Acceptance Limits)	
		Ba	Y
Lab Sample ID	Client Sample ID	(30-110)	(30-110)
810-205778-31	MW-12	70.7	80.7
810-205778-32	MW-33	74.4	81.5
810-205778-33	MW-03	74.1	81.5
810-205778-34	MW-04R	67.5	83.0
810-205778-35	MW-31	91.7	82.2
810-205778-35 DU	MW-31	89.2	81.5
810-205778-36	MW-04	88.6	83.7
810-205778-36 DU	MW-04	92.3	81.5
810-205778-37	SG-02	82.1	84.5
810-205778-38	SG-07	90.9	83.4

Tracer/Carrier Legend

Ba = Ba Carrier
Y = Y Carrier

Method: 904.0 - Radium-228 (GFPC) for Drinking Water

Matrix: Water **Prep Type: Total/NA**

		Percent Yield (Acceptance Limits)	
		Ba	Y
Lab Sample ID	Client Sample ID	(30-110)	(30-110)
LCS 160-787480/2-A	Lab Control Sample	85.5	80.7
LCS 160-787851/2-A	Lab Control Sample	85.5	84.1
LCS 160-788398/2-A	Lab Control Sample	89.2	81.1
MB 160-787480/1-A	Method Blank	90.9	80.4
MB 160-787851/1-A	Method Blank	79.8	72.5
MB 160-788398/1-A	Method Blank	94.9	83.7

Tracer/Carrier Legend

Ba = Ba Carrier
Y = Y Carrier

Method: 903.0 - Radium-226 (GFPC) for Drinking Water

Lab Sample ID: MB 160-788399/1-A
Matrix: Water
Analysis Batch: 789022

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 788399

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.07146	U	0.0945	0.0948	1.00	0.155	pCi/L	08/27/26 16:24	09/01/26 10:18	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*97.7*		*30 - 110*	*08/27/26 16:24*	*09/01/26 10:18*	*1*

Lab Sample ID: LCS 160-788399/2-A
Matrix: Water
Analysis Batch: 789022

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 788399

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			10.7	10.24		1.28	1.00	0.166	pCi/L	95	90 - 110		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*92.3*		*30 - 110*

Lab Sample ID: 810-205778-11 DU
Matrix: Ground Water
Analysis Batch: 789022

Client Sample ID: MW-18
Prep Type: Total/NA
Prep Batch: 788399

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-226	-0.0458	U		0.05771	U	0.224	1.00	0.277	pCi/L			0.29	1

Carrier	*DU %Yield*	*DU Qualifier*	*Limits*
Ba Carrier	*97.2*		*30 - 110*

Lab Sample ID: 810-205778-12 DU
Matrix: Ground Water
Analysis Batch: 788987

Client Sample ID: MWT-18
Prep Type: Total/NA
Prep Batch: 788399

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-226	0.423			0.5888		0.343	1.00	0.256	pCi/L			0.25	1

Carrier	*DU %Yield*	*DU Qualifier*	*Limits*
Ba Carrier	*94.6*		*30 - 110*

Lab Sample ID: MB 160-788823/1-A
Matrix: Water
Analysis Batch: 789272

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 788823

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.01700	U	0.118	0.118	1.00	0.148	pCi/L	08/31/26 10:36	09/02/26 18:00	1

Method: 903.0 - Radium-226 (GFPC) for Drinking Water (Continued)

Lab Sample ID: MB 160-788823/1-A
Matrix: Water
Analysis Batch: 789272

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 788823

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	87.7		30 - 110	08/31/26 10:36	09/02/26 18:00	1

Lab Sample ID: LCS 160-788823/2-A
Matrix: Water
Analysis Batch: 789272

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 788823

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			10.7	11.39		1.34	1.00	0.142	pCi/L	106	90 - 110		

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	97.2		30 - 110

Lab Sample ID: 810-205778-15 DU
Matrix: Ground Water
Analysis Batch: 789272

Client Sample ID: MW-36
Prep Type: Total/NA
Prep Batch: 788823

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-226	0.419			0.1807	U	0.249	1.00	0.262	pCi/L			0.46	1

Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier	99.7		30 - 110

Lab Sample ID: 810-205778-18 DU
Matrix: Ground Water
Analysis Batch: 789272

Client Sample ID: MW-13
Prep Type: Total/NA
Prep Batch: 788823

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-226	0.309			0.3490		0.284	1.00	0.256	pCi/L			0.07	1

Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier	96.9		30 - 110

Lab Sample ID: MB 160-789147/1-A
Matrix: Water
Analysis Batch: 791111

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 789147

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.02731	U	0.0423	0.0424	1.00	0.0470	pCi/L	09/02/26 08:58	09/14/26 10:12	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	93.7		30 - 110	09/02/26 08:58	09/14/26 10:12	1

Method: 903.0 - Radium-226 (GFPC) for Drinking Water (Continued)

Lab Sample ID: LCS 160-789147/2-A
Matrix: Water
Analysis Batch: 791111

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 789147

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			10.7	9.812		1.01	1.00	0.0543	pCi/L	91	90 - 110		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*96.9*		*30 - 110*

Lab Sample ID: MB 160-789148/1-A
Matrix: Water
Analysis Batch: 790063

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 789148

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.01264	U	0.0463	0.0463	1.00	0.0599	pCi/L	09/02/26 09:04	09/08/26 22:12	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.0*		*30 - 110*	*09/02/26 09:04*	*09/08/26 22:12*	*1*

Lab Sample ID: LCS 160-789148/2-A
Matrix: Water
Analysis Batch: 790063

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 789148

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			10.7	10.36		1.11	1.00	0.0539	pCi/L	96	90 - 110		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*89.5*		*30 - 110*

Method: 904.0 - Radium-228 (GFPC) for Drinking Water

Lab Sample ID: MB 160-787480/1-A
Matrix: Water
Analysis Batch: 791603

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 787480

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.5327		0.445	0.448	1.00	0.424	pCi/L	08/21/26 19:07	09/16/26 12:05	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.9*		*30 - 110*	*08/21/26 19:07*	*09/16/26 12:05*	*1*
Y Carrier	*80.4*		*30 - 110*	*08/21/26 19:07*	*09/16/26 12:05*	*1*

Method: 904.0 - Radium-228 (GFPC) for Drinking Water (Continued)

Lab Sample ID: LCS 160-787480/2-A
Matrix: Water
Analysis Batch: 791603

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 787480

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			8.78	11.52	*	1.59	1.00	0.463	pCi/L	131	80 - 120		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*85.5*		*30 - 110*
Y Carrier	*80.7*		*30 - 110*

Lab Sample ID: 810-205778-8 DU
Matrix: Ground Water
Analysis Batch: 791624

Client Sample ID: MW-43
Prep Type: Total/NA
Prep Batch: 787480

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-228	0.207	U *		0.3548	U *	0.538	1.00	0.548	pCi/L			0.14	1

Carrier	*DU %Yield*	*DU Qualifier*	*Limits*
Ba Carrier	*94.0*		*30 - 110*
Y Carrier	*85.2*		*30 - 110*

Lab Sample ID: 810-205778-10 DU
Matrix: Ground Water
Analysis Batch: 791625

Client Sample ID: MW-17
Prep Type: Total/NA
Prep Batch: 787480

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-228	0.851	*		0.6787	*	0.517	1.00	0.480	pCi/L			0.15	1

Carrier	*DU %Yield*	*DU Qualifier*	*Limits*
Ba Carrier	*92.6*		*30 - 110*
Y Carrier	*83.4*		*30 - 110*

Lab Sample ID: MB 160-787851/1-A
Matrix: Water
Analysis Batch: 791804

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 787851

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.4756	U	0.540	0.542	1.00	0.536	pCi/L	08/25/26 08:38	09/17/26 11:53	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*79.8*		*30 - 110*	*08/25/26 08:38*	*09/17/26 11:53*	*1*
Y Carrier	*72.5*		*30 - 110*	*08/25/26 08:38*	*09/17/26 11:53*	*1*

Method: 904.0 - Radium-228 (GFPC) for Drinking Water (Continued)

Lab Sample ID: LCS 160-787851/2-A
Matrix: Water
Analysis Batch: 791804

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 787851

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			8.78	9.974		1.40	1.00	0.423	pCi/L	114	80 - 120		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*85.5*		*30 - 110*
Y Carrier	*84.1*		*30 - 110*

Lab Sample ID: 810-205778-18 DU
Matrix: Ground Water
Analysis Batch: 791804

Client Sample ID: MW-13
Prep Type: Total/NA
Prep Batch: 787851

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-228	1.24			0.9532		0.616	1.00	0.557	pCi/L			0.23	1

Carrier	*DU %Yield*	*DU Qualifier*	*Limits*
Ba Carrier	*70.4*		*30 - 110*
Y Carrier	*83.4*		*30 - 110*

Lab Sample ID: MB 160-788398/1-A
Matrix: Water
Analysis Batch: 789504

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 788398

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.2977		0.291	0.292	1.00	0.283	pCi/L	08/27/26 16:19	09/03/26 12:02	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.9*		*30 - 110*	*08/27/26 16:19*	*09/03/26 12:02*	*1*
Y Carrier	*83.7*		*30 - 110*	*08/27/26 16:19*	*09/03/26 12:02*	*1*

Lab Sample ID: LCS 160-788398/2-A
Matrix: Water
Analysis Batch: 789504

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 788398

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			8.82	8.627		1.23	1.00	0.326	pCi/L	98	80 - 120		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*89.2*		*30 - 110*
Y Carrier	*81.1*		*30 - 110*

Method: 904.0 - Radium-228 (GFPC) for Drinking Water (Continued)

Lab Sample ID: 810-205778-35 DU
Matrix: Ground Water
Analysis Batch: 789484

Client Sample ID: MW-31
Prep Type: Total/NA
Prep Batch: 788398

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-228	0.946			0.8295		0.604	1.00	0.556	pCi/L			0.10	1

Carrier	*%Yield*	*DU Qualifier*	*Limits*
Ba Carrier	*89.2*		*30 - 110*
Y Carrier	*81.5*		*30 - 110*

Lab Sample ID: 810-205778-36 DU
Matrix: Ground Water
Analysis Batch: 789504

Client Sample ID: MW-04
Prep Type: Total/NA
Prep Batch: 788398

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-228	-0.206	U		-0.09719	U	0.487	1.00	0.581	pCi/L			0.1	1

Carrier	*%Yield*	*DU Qualifier*	*Limits*
Ba Carrier	*92.3*		*30 - 110*
Y Carrier	*81.5*		*30 - 110*

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Prep Batch: 787480

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-205778-1	MW-41	Total/NA	Ground Water	PrecSep_0	
810-205778-2	MW-09	Total/NA	Ground Water	PrecSep_0	
810-205778-3	MW-10	Total/NA	Ground Water	PrecSep_0	
810-205778-4	MWT-10	Total/NA	Ground Water	PrecSep_0	
810-205778-5	MW-42	Total/NA	Ground Water	PrecSep_0	
810-205778-6	MW-30	Total/NA	Ground Water	PrecSep_0	
810-205778-7	MW-07	Total/NA	Ground Water	PrecSep_0	
810-205778-8	MW-43	Total/NA	Ground Water	PrecSep_0	
810-205778-9	MW-20	Total/NA	Ground Water	PrecSep_0	
810-205778-10	MW-17	Total/NA	Ground Water	PrecSep_0	
810-205778-11	MW-18	Total/NA	Ground Water	PrecSep_0	
810-205778-12	MWT-18	Total/NA	Ground Water	PrecSep_0	
810-205778-13	MW-37	Total/NA	Ground Water	PrecSep_0	
810-205778-14	MW-38	Total/NA	Ground Water	PrecSep_0	
810-205778-15	MW-36	Total/NA	Ground Water	PrecSep_0	
810-205778-16	MW01RB	Total/NA	Ground Water	PrecSep_0	
MB 160-787480/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-787480/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
810-205778-8 DU	MW-43	Total/NA	Ground Water	PrecSep_0	
810-205778-10 DU	MW-17	Total/NA	Ground Water	PrecSep_0	

Prep Batch: 787851

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-205778-17	MW-01R	Total/NA	Ground Water	PrecSep_0	
810-205778-18	MW-13	Total/NA	Ground Water	PrecSep_0	
810-205778-19	MW-16	Total/NA	Ground Water	PrecSep_0	
810-205778-20	MWT-16	Total/NA	Ground Water	PrecSep_0	
810-205778-21	MW-39	Total/NA	Ground Water	PrecSep_0	
810-205778-22	MW-02	Total/NA	Ground Water	PrecSep_0	
810-205778-23	MW-11	Total/NA	Ground Water	PrecSep_0	
810-205778-24	MW-06	Total/NA	Ground Water	PrecSep_0	
810-205778-25	MW-34	Total/NA	Ground Water	PrecSep_0	
810-205778-26	MW-19	Total/NA	Ground Water	PrecSep_0	
810-205778-27	MW-32	Total/NA	Ground Water	PrecSep_0	
810-205778-28	MW-08	Total/NA	Ground Water	PrecSep_0	
810-205778-29	MW-28	Total/NA	Ground Water	PrecSep_0	
810-205778-30	MW-27	Total/NA	Ground Water	PrecSep_0	
810-205778-31	MW-12	Total/NA	Ground Water	PrecSep_0	
810-205778-32	MW-33	Total/NA	Ground Water	PrecSep_0	
810-205778-33	MW-03	Total/NA	Ground Water	PrecSep_0	
810-205778-34	MW-04R	Total/NA	Ground Water	PrecSep_0	
MB 160-787851/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-787851/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
810-205778-18 DU	MW-13	Total/NA	Ground Water	PrecSep_0	

Prep Batch: 788398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-205778-35	MW-31	Total/NA	Ground Water	PrecSep_0	
810-205778-36	MW-04	Total/NA	Ground Water	PrecSep_0	
810-205778-37	SG-02	Total/NA	Ground Water	PrecSep_0	
810-205778-38	SG-07	Total/NA	Ground Water	PrecSep_0	

Rad (Continued)

Prep Batch: 788398 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 160-788398/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-788398/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
810-205778-35 DU	MW-31	Total/NA	Ground Water	PrecSep_0	
810-205778-36 DU	MW-04	Total/NA	Ground Water	PrecSep_0	

Prep Batch: 788399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-205778-1	MW-41	Total/NA	Ground Water	PrecSep	
810-205778-2	MW-09	Total/NA	Ground Water	PrecSep	
810-205778-3	MW-10	Total/NA	Ground Water	PrecSep	
810-205778-4	MWT-10	Total/NA	Ground Water	PrecSep	
810-205778-5	MW-42	Total/NA	Ground Water	PrecSep	
810-205778-6	MW-30	Total/NA	Ground Water	PrecSep	
810-205778-7	MW-07	Total/NA	Ground Water	PrecSep	
810-205778-8	MW-43	Total/NA	Ground Water	PrecSep	
810-205778-9	MW-20	Total/NA	Ground Water	PrecSep	
810-205778-10	MW-17	Total/NA	Ground Water	PrecSep	
810-205778-11	MW-18	Total/NA	Ground Water	PrecSep	
810-205778-12	MWT-18	Total/NA	Ground Water	PrecSep	
810-205778-13	MW-37	Total/NA	Ground Water	PrecSep	
MB 160-788399/1-A	Method Blank	Total/NA	Water	PrecSep	
LCS 160-788399/2-A	Lab Control Sample	Total/NA	Water	PrecSep	
810-205778-11 DU	MW-18	Total/NA	Ground Water	PrecSep	
810-205778-12 DU	MWT-18	Total/NA	Ground Water	PrecSep	

Prep Batch: 788823

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-205778-14	MW-38	Total/NA	Ground Water	PrecSep	
810-205778-15	MW-36	Total/NA	Ground Water	PrecSep	
810-205778-16	MW01RB	Total/NA	Ground Water	PrecSep	
810-205778-17	MW-01R	Total/NA	Ground Water	PrecSep	
810-205778-18	MW-13	Total/NA	Ground Water	PrecSep	
810-205778-19	MW-16	Total/NA	Ground Water	PrecSep	
810-205778-20	MWT-16	Total/NA	Ground Water	PrecSep	
810-205778-21	MW-39	Total/NA	Ground Water	PrecSep	
810-205778-22	MW-02	Total/NA	Ground Water	PrecSep	
810-205778-23	MW-11	Total/NA	Ground Water	PrecSep	
810-205778-24	MW-06	Total/NA	Ground Water	PrecSep	
810-205778-25	MW-34	Total/NA	Ground Water	PrecSep	
810-205778-26	MW-19	Total/NA	Ground Water	PrecSep	
MB 160-788823/1-A	Method Blank	Total/NA	Water	PrecSep	
LCS 160-788823/2-A	Lab Control Sample	Total/NA	Water	PrecSep	
810-205778-15 DU	MW-36	Total/NA	Ground Water	PrecSep	
810-205778-18 DU	MW-13	Total/NA	Ground Water	PrecSep	

Prep Batch: 789147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-205778-30	MW-27	Total/NA	Ground Water	PrecSep	
810-205778-31	MW-12	Total/NA	Ground Water	PrecSep	
810-205778-32	MW-33	Total/NA	Ground Water	PrecSep	
810-205778-33	MW-03	Total/NA	Ground Water	PrecSep	

Rad (Continued)

Prep Batch: 789147 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-205778-34	MW-04R	Total/NA	Ground Water	PrecSep	
810-205778-35	MW-31	Total/NA	Ground Water	PrecSep	
810-205778-36	MW-04	Total/NA	Ground Water	PrecSep	
810-205778-37	SG-02	Total/NA	Ground Water	PrecSep	
810-205778-38	SG-07	Total/NA	Ground Water	PrecSep	
MB 160-789147/1-A	Method Blank	Total/NA	Water	PrecSep	
LCS 160-789147/2-A	Lab Control Sample	Total/NA	Water	PrecSep	

Prep Batch: 789148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-205778-27	MW-32	Total/NA	Ground Water	PrecSep	
810-205778-28	MW-08	Total/NA	Ground Water	PrecSep	
810-205778-29	MW-28	Total/NA	Ground Water	PrecSep	
MB 160-789148/1-A	Method Blank	Total/NA	Water	PrecSep	
LCS 160-789148/2-A	Lab Control Sample	Total/NA	Water	PrecSep	

Lab Chronicle

Client: Trace Analytical Laboratories
Project/Site: 26H0719 Harbor Island

Job ID: 810-205778-1

Client Sample ID: MW-41

Lab Sample ID: 810-205778-1

Date Collected: 08/10/26 12:38

Matrix: Ground Water

Date Received: 08/19/26 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep			788399	IH	EET SL	08/27/26 16:24
Total/NA	Analysis	903.0		1	789022	SWS	EET SL	09/01/26 10:18
Total/NA	Prep	PrecSep_0			787480	ASL	EET SL	08/21/26 19:07
Total/NA	Analysis	904.0		1	791624	SWS	EET SL	09/16/26 12:08
Total/NA	Analysis	Ra226_Ra228 P		1	791805	FLC	EET SL	09/17/26 10:06

Client Sample ID: MW-09

Lab Sample ID: 810-205778-2

Date Collected: 08/10/26 13:46

Matrix: Ground Water

Date Received: 08/19/26 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep			788399	IH	EET SL	08/27/26 16:24
Total/NA	Analysis	903.0		1	789022	SWS	EET SL	09/01/26 10:18
Total/NA	Prep	PrecSep_0			787480	ASL	EET SL	08/21/26 19:07
Total/NA	Analysis	904.0		1	791624	SWS	EET SL	09/16/26 12:08
Total/NA	Analysis	Ra226_Ra228 P		1	791805	FLC	EET SL	09/17/26 10:06

Client Sample ID: MW-10

Lab Sample ID: 810-205778-3

Date Collected: 08/10/26 15:10

Matrix: Ground Water

Date Received: 08/19/26 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep			788399	IH	EET SL	08/27/26 16:24
Total/NA	Analysis	903.0		1	789022	SWS	EET SL	09/01/26 10:18
Total/NA	Prep	PrecSep_0			787480	ASL	EET SL	08/21/26 19:07
Total/NA	Analysis	904.0		1	791624	SWS	EET SL	09/16/26 12:08
Total/NA	Analysis	Ra226_Ra228 P		1	791805	FLC	EET SL	09/17/26 10:06

Client Sample ID: MWT-10

Lab Sample ID: 810-205778-4

Date Collected: 08/10/26 15:10

Matrix: Ground Water

Date Received: 08/19/26 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep			788399	IH	EET SL	08/27/26 16:24
Total/NA	Analysis	903.0		1	789022	SWS	EET SL	09/01/26 10:18
Total/NA	Prep	PrecSep_0			787480	ASL	EET SL	08/21/26 19:07
Total/NA	Analysis	904.0		1	791624	SWS	EET SL	09/16/26 12:08
Total/NA	Analysis	Ra226_Ra228 P		1	791805	FLC	EET SL	09/17/26 10:06

Lab Chronicle

Client: Trace Analytical Laboratories
Project/Site: 26H0719 Harbor Island

Job ID: 810-205778-1

Client Sample ID: MW-42

Lab Sample ID: 810-205778-5

Date Collected: 08/10/26 15:15

Matrix: Ground Water

Date Received: 08/19/26 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep			788399	IH	EET SL	08/27/26 16:24
Total/NA	Analysis	903.0		1	789022	SWS	EET SL	09/01/26 10:18
Total/NA	Prep	PrecSep_0			787480	ASL	EET SL	08/21/26 19:07
Total/NA	Analysis	904.0		1	791624	SWS	EET SL	09/16/26 12:08
Total/NA	Analysis	Ra226_Ra228 P		1	791805	FLC	EET SL	09/17/26 10:06

Client Sample ID: MW-30

Lab Sample ID: 810-205778-6

Date Collected: 08/11/26 09:00

Matrix: Ground Water

Date Received: 08/19/26 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep			788399	IH	EET SL	08/27/26 16:24
Total/NA	Analysis	903.0		1	789022	SWS	EET SL	09/01/26 10:18
Total/NA	Prep	PrecSep_0			787480	ASL	EET SL	08/21/26 19:07
Total/NA	Analysis	904.0		1	791624	SWS	EET SL	09/16/26 12:08
Total/NA	Analysis	Ra226_Ra228 P		1	791805	FLC	EET SL	09/17/26 10:06

Client Sample ID: MW-07

Lab Sample ID: 810-205778-7

Date Collected: 08/11/26 10:15

Matrix: Ground Water

Date Received: 08/19/26 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep			788399	IH	EET SL	08/27/26 16:24
Total/NA	Analysis	903.0		1	789022	SWS	EET SL	09/01/26 10:18
Total/NA	Prep	PrecSep_0			787480	ASL	EET SL	08/21/26 19:07
Total/NA	Analysis	904.0		1	791624	SWS	EET SL	09/16/26 12:08
Total/NA	Analysis	Ra226_Ra228 P		1	791805	FLC	EET SL	09/17/26 10:06

Client Sample ID: MW-43

Lab Sample ID: 810-205778-8

Date Collected: 08/11/26 11:20

Matrix: Ground Water

Date Received: 08/19/26 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep			788399	IH	EET SL	08/27/26 16:24
Total/NA	Analysis	903.0		1	789022	SWS	EET SL	09/01/26 10:18
Total/NA	Prep	PrecSep_0			787480	ASL	EET SL	08/21/26 19:07
Total/NA	Analysis	904.0		1	791624	SWS	EET SL	09/16/26 12:08
Total/NA	Analysis	Ra226_Ra228 P		1	791805	FLC	EET SL	09/17/26 10:06

Lab Chronicle

Client: Trace Analytical Laboratories
Project/Site: 26H0719 Harbor Island

Job ID: 810-205778-1

Client Sample ID: MW-20

Lab Sample ID: 810-205778-9

Date Collected: 08/11/26 12:45

Matrix: Ground Water

Date Received: 08/19/26 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep			788399	IH	EET SL	08/27/26 16:24
Total/NA	Analysis	903.0		1	789022	SWS	EET SL	09/01/26 10:18
Total/NA	Prep	PrecSep_0			787480	ASL	EET SL	08/21/26 19:07
Total/NA	Analysis	904.0		1	791624	SWS	EET SL	09/16/26 12:08
Total/NA	Analysis	Ra226_Ra228 P		1	791805	FLC	EET SL	09/17/26 10:06

Client Sample ID: MW-17

Lab Sample ID: 810-205778-10

Date Collected: 08/11/26 13:50

Matrix: Ground Water

Date Received: 08/19/26 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep			788399	IH	EET SL	08/27/26 16:24
Total/NA	Analysis	903.0		1	789022	SWS	EET SL	09/01/26 10:18
Total/NA	Prep	PrecSep_0			787480	ASL	EET SL	08/21/26 19:07
Total/NA	Analysis	904.0		1	791624	SWS	EET SL	09/16/26 12:08
Total/NA	Analysis	Ra226_Ra228 P		1	791805	FLC	EET SL	09/17/26 10:06

Client Sample ID: MW-18

Lab Sample ID: 810-205778-11

Date Collected: 08/11/26 15:05

Matrix: Ground Water

Date Received: 08/19/26 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep			788399	IH	EET SL	08/27/26 16:24
Total/NA	Analysis	903.0		1	789022	SWS	EET SL	09/01/26 10:19
Total/NA	Prep	PrecSep_0			787480	ASL	EET SL	08/21/26 19:07
Total/NA	Analysis	904.0		1	791625	SWS	EET SL	09/16/26 12:09
Total/NA	Analysis	Ra226_Ra228 P		1	791805	FLC	EET SL	09/17/26 10:06

Client Sample ID: MWT-18

Lab Sample ID: 810-205778-12

Date Collected: 08/11/26 15:30

Matrix: Ground Water

Date Received: 08/19/26 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep			788399	IH	EET SL	08/27/26 16:24
Total/NA	Analysis	903.0		1	788987	SWS	EET SL	09/01/26 10:19
Total/NA	Prep	PrecSep_0			787480	ASL	EET SL	08/21/26 19:07
Total/NA	Analysis	904.0		1	791625	SWS	EET SL	09/16/26 12:09
Total/NA	Analysis	Ra226_Ra228 P		1	791805	FLC	EET SL	09/17/26 10:06

Lab Chronicle

Client: Trace Analytical Laboratories
Project/Site: 26H0719 Harbor Island

Job ID: 810-205778-1

Client Sample ID: MW-37

Lab Sample ID: 810-205778-13

Date Collected: 08/11/26 09:22

Matrix: Ground Water

Date Received: 08/19/26 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep			788399	IH	EET SL	08/27/26 16:24
Total/NA	Analysis	903.0		1	788987	SWS	EET SL	09/01/26 10:19
Total/NA	Prep	PrecSep_0			787480	ASL	EET SL	08/21/26 19:07
Total/NA	Analysis	904.0		1	791625	SWS	EET SL	09/16/26 12:09
Total/NA	Analysis	Ra226_Ra228 P		1	791805	FLC	EET SL	09/17/26 10:06

Client Sample ID: MW-38

Lab Sample ID: 810-205778-14

Date Collected: 08/11/26 09:50

Matrix: Ground Water

Date Received: 08/19/26 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep			788823	IH	EET SL	08/31/26 10:36
Total/NA	Analysis	903.0		1	789272	SWS	EET SL	09/02/26 17:59
Total/NA	Prep	PrecSep_0			787480	ASL	EET SL	08/21/26 19:07
Total/NA	Analysis	904.0		1	791625	SWS	EET SL	09/16/26 12:10
Total/NA	Analysis	Ra226_Ra228 P		1	791805	FLC	EET SL	09/17/26 10:06

Client Sample ID: MW-36

Lab Sample ID: 810-205778-15

Date Collected: 08/11/26 10:38

Matrix: Ground Water

Date Received: 08/19/26 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep			788823	IH	EET SL	08/31/26 10:36
Total/NA	Analysis	903.0		1	789272	SWS	EET SL	09/02/26 17:59
Total/NA	Prep	PrecSep_0			787480	ASL	EET SL	08/21/26 19:07
Total/NA	Analysis	904.0		1	791625	SWS	EET SL	09/16/26 12:10
Total/NA	Analysis	Ra226_Ra228 P		1	791805	FLC	EET SL	09/17/26 10:06

Client Sample ID: MW01RB

Lab Sample ID: 810-205778-16

Date Collected: 08/11/26 12:40

Matrix: Ground Water

Date Received: 08/19/26 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep			788823	IH	EET SL	08/31/26 10:36
Total/NA	Analysis	903.0		1	789272	SWS	EET SL	09/02/26 21:17
Total/NA	Prep	PrecSep_0			787480	ASL	EET SL	08/21/26 19:07
Total/NA	Analysis	904.0		1	791625	SWS	EET SL	09/16/26 12:11
Total/NA	Analysis	Ra226_Ra228 P		1	791805	FLC	EET SL	09/17/26 10:06

Lab Chronicle

Client: Trace Analytical Laboratories
Project/Site: 26H0719 Harbor Island

Job ID: 810-205778-1

Client Sample ID: MW-01R

Lab Sample ID: 810-205778-17

Date Collected: 08/11/26 13:40

Matrix: Ground Water

Date Received: 08/19/26 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep			788823	IH	EET SL	08/31/26 10:36
Total/NA	Analysis	903.0		1	789272	SWS	EET SL	09/02/26 21:16
Total/NA	Prep	PrecSep_0			787851	IH	EET SL	08/25/26 08:38
Total/NA	Analysis	904.0		1	791804	SWS	EET SL	09/17/26 11:53
Total/NA	Analysis	Ra226_Ra228 P		1	791876	FLC	EET SL	09/17/26 17:03

Client Sample ID: MW-13

Lab Sample ID: 810-205778-18

Date Collected: 08/11/26 15:02

Matrix: Ground Water

Date Received: 08/19/26 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep			788823	IH	EET SL	08/31/26 10:36
Total/NA	Analysis	903.0		1	789272	SWS	EET SL	09/02/26 21:17
Total/NA	Prep	PrecSep_0			787851	IH	EET SL	08/25/26 08:38
Total/NA	Analysis	904.0		1	791804	SWS	EET SL	09/17/26 11:53
Total/NA	Analysis	Ra226_Ra228 P		1	791876	FLC	EET SL	09/17/26 17:03

Client Sample ID: MW-16

Lab Sample ID: 810-205778-19

Date Collected: 08/11/26 16:30

Matrix: Ground Water

Date Received: 08/19/26 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep			788823	IH	EET SL	08/31/26 10:36
Total/NA	Analysis	903.0		1	789272	SWS	EET SL	09/02/26 21:17
Total/NA	Prep	PrecSep_0			787851	IH	EET SL	08/25/26 08:38
Total/NA	Analysis	904.0		1	791804	SWS	EET SL	09/17/26 11:53
Total/NA	Analysis	Ra226_Ra228 P		1	791876	FLC	EET SL	09/17/26 17:03

Client Sample ID: MWT-16

Lab Sample ID: 810-205778-20

Date Collected: 08/11/26 16:30

Matrix: Ground Water

Date Received: 08/19/26 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep			788823	IH	EET SL	08/31/26 10:36
Total/NA	Analysis	903.0		1	789272	SWS	EET SL	09/02/26 21:16
Total/NA	Prep	PrecSep_0			787851	IH	EET SL	08/25/26 08:38
Total/NA	Analysis	904.0		1	791804	SWS	EET SL	09/17/26 11:53
Total/NA	Analysis	Ra226_Ra228 P		1	791876	FLC	EET SL	09/17/26 17:03

Lab Chronicle

Client: Trace Analytical Laboratories
Project/Site: 26H0719 Harbor Island

Job ID: 810-205778-1

Client Sample ID: MW-39

Lab Sample ID: 810-205778-21

Date Collected: 08/12/26 10:00

Matrix: Ground Water

Date Received: 08/19/26 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep			788823	IH	EET SL	08/31/26 10:36
Total/NA	Analysis	903.0		1	789272	SWS	EET SL	09/02/26 21:17
Total/NA	Prep	PrecSep_0			787851	IH	EET SL	08/25/26 08:38
Total/NA	Analysis	904.0		1	791808	SWS	EET SL	09/17/26 11:55
Total/NA	Analysis	Ra226_Ra228 P		1	791876	FLC	EET SL	09/17/26 17:03

Client Sample ID: MW-02

Lab Sample ID: 810-205778-22

Date Collected: 08/12/26 11:44

Matrix: Ground Water

Date Received: 08/19/26 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep			788823	IH	EET SL	08/31/26 10:36
Total/NA	Analysis	903.0		1	789272	SWS	EET SL	09/02/26 21:16
Total/NA	Prep	PrecSep_0			787851	IH	EET SL	08/25/26 08:38
Total/NA	Analysis	904.0		1	791808	SWS	EET SL	09/17/26 11:55
Total/NA	Analysis	Ra226_Ra228 P		1	791876	FLC	EET SL	09/17/26 17:03

Client Sample ID: MW-11

Lab Sample ID: 810-205778-23

Date Collected: 08/12/26 13:40

Matrix: Ground Water

Date Received: 08/19/26 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep			788823	IH	EET SL	08/31/26 10:36
Total/NA	Analysis	903.0		1	789272	SWS	EET SL	09/02/26 21:17
Total/NA	Prep	PrecSep_0			787851	IH	EET SL	08/25/26 08:38
Total/NA	Analysis	904.0		1	791808	SWS	EET SL	09/17/26 11:55
Total/NA	Analysis	Ra226_Ra228 P		1	791876	FLC	EET SL	09/17/26 17:03

Client Sample ID: MW-06

Lab Sample ID: 810-205778-24

Date Collected: 08/12/26 14:48

Matrix: Ground Water

Date Received: 08/19/26 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep			788823	IH	EET SL	08/31/26 10:36
Total/NA	Analysis	903.0		1	789272	SWS	EET SL	09/02/26 21:17
Total/NA	Prep	PrecSep_0			787851	IH	EET SL	08/25/26 08:38
Total/NA	Analysis	904.0		1	791808	SWS	EET SL	09/17/26 11:55
Total/NA	Analysis	Ra226_Ra228 P		1	791876	FLC	EET SL	09/17/26 17:03

Lab Chronicle

Client: Trace Analytical Laboratories
Project/Site: 26H0719 Harbor Island

Job ID: 810-205778-1

Client Sample ID: MW-34

Lab Sample ID: 810-205778-25

Date Collected: 08/12/26 16:02

Matrix: Ground Water

Date Received: 08/19/26 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep			788823	IH	EET SL	08/31/26 10:36
Total/NA	Analysis	903.0		1	789272	SWS	EET SL	09/02/26 21:16
Total/NA	Prep	PrecSep_0			787851	IH	EET SL	08/25/26 08:38
Total/NA	Analysis	904.0		1	791808	SWS	EET SL	09/17/26 11:55
Total/NA	Analysis	Ra226_Ra228 P		1	791876	FLC	EET SL	09/17/26 17:03

Client Sample ID: MW-19

Lab Sample ID: 810-205778-26

Date Collected: 08/12/26 09:35

Matrix: Ground Water

Date Received: 08/19/26 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep			788823	IH	EET SL	08/31/26 10:36
Total/NA	Analysis	903.0		1	789272	SWS	EET SL	09/02/26 21:17
Total/NA	Prep	PrecSep_0			787851	IH	EET SL	08/25/26 08:38
Total/NA	Analysis	904.0		1	791808	SWS	EET SL	09/17/26 11:55
Total/NA	Analysis	Ra226_Ra228 P		1	791876	FLC	EET SL	09/17/26 17:03

Client Sample ID: MW-32

Lab Sample ID: 810-205778-27

Date Collected: 08/12/26 10:40

Matrix: Ground Water

Date Received: 08/19/26 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep			789148	IH	EET SL	09/02/26 09:04
Total/NA	Analysis	903.0		1	790040	SWS	EET SL	09/08/26 22:19
Total/NA	Prep	PrecSep_0			787851	IH	EET SL	08/25/26 08:38
Total/NA	Analysis	904.0		1	791808	SWS	EET SL	09/17/26 11:56
Total/NA	Analysis	Ra226_Ra228 P		1	791876	FLC	EET SL	09/17/26 17:03

Client Sample ID: MW-08

Lab Sample ID: 810-205778-28

Date Collected: 08/12/26 12:00

Matrix: Ground Water

Date Received: 08/19/26 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep			789148	IH	EET SL	09/02/26 09:04
Total/NA	Analysis	903.0		1	790040	SWS	EET SL	09/08/26 22:18
Total/NA	Prep	PrecSep_0			787851	IH	EET SL	08/25/26 08:38
Total/NA	Analysis	904.0		1	791808	SWS	EET SL	09/17/26 11:56
Total/NA	Analysis	Ra226_Ra228 P		1	791876	FLC	EET SL	09/17/26 17:03

Lab Chronicle

Client: Trace Analytical Laboratories
Project/Site: 26H0719 Harbor Island

Job ID: 810-205778-1

Client Sample ID: MW-28

Lab Sample ID: 810-205778-29

Date Collected: 08/12/26 13:55

Matrix: Ground Water

Date Received: 08/19/26 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep			789148	IH	EET SL	09/02/26 09:04
Total/NA	Analysis	903.0		1	790040	SWS	EET SL	09/08/26 22:18
Total/NA	Prep	PrecSep_0			787851	IH	EET SL	08/25/26 08:38
Total/NA	Analysis	904.0		1	791808	SWS	EET SL	09/17/26 11:56
Total/NA	Analysis	Ra226_Ra228 P		1	791876	FLC	EET SL	09/17/26 17:03

Client Sample ID: MW-27

Lab Sample ID: 810-205778-30

Date Collected: 08/12/26 15:10

Matrix: Ground Water

Date Received: 08/19/26 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep			789147	IH	EET SL	09/02/26 08:58
Total/NA	Analysis	903.0		1	791111	SWS	EET SL	09/14/26 10:12
Total/NA	Prep	PrecSep_0			787851	IH	EET SL	08/25/26 08:38
Total/NA	Analysis	904.0		1	791808	SWS	EET SL	09/17/26 11:56
Total/NA	Analysis	Ra226_Ra228 P		1	791876	FLC	EET SL	09/17/26 17:03

Client Sample ID: MW-12

Lab Sample ID: 810-205778-31

Date Collected: 08/12/26 16:30

Matrix: Ground Water

Date Received: 08/19/26 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep			789147	IH	EET SL	09/02/26 08:58
Total/NA	Analysis	903.0		1	791113	SWS	EET SL	09/14/26 12:11
Total/NA	Prep	PrecSep_0			787851	IH	EET SL	08/25/26 08:38
Total/NA	Analysis	904.0		1	791808	SWS	EET SL	09/17/26 11:56
Total/NA	Analysis	Ra226_Ra228 P		1	791876	FLC	EET SL	09/17/26 17:03

Client Sample ID: MW-33

Lab Sample ID: 810-205778-32

Date Collected: 08/13/26 08:52

Matrix: Ground Water

Date Received: 08/19/26 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep			789147	IH	EET SL	09/02/26 08:58
Total/NA	Analysis	903.0		1	791113	SWS	EET SL	09/14/26 12:12
Total/NA	Prep	PrecSep_0			787851	IH	EET SL	08/25/26 08:38
Total/NA	Analysis	904.0		1	791808	SWS	EET SL	09/17/26 11:56
Total/NA	Analysis	Ra226_Ra228 P		1	791876	FLC	EET SL	09/17/26 17:03

Lab Chronicle

Client: Trace Analytical Laboratories
Project/Site: 26H0719 Harbor Island

Job ID: 810-205778-1

Client Sample ID: MW-03

Lab Sample ID: 810-205778-33

Date Collected: 08/13/26 10:34

Matrix: Ground Water

Date Received: 08/19/26 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep			789147	IH	EET SL	09/02/26 08:58
Total/NA	Analysis	903.0		1	791113	SWS	EET SL	09/14/26 12:12
Total/NA	Prep	PrecSep_0			787851	IH	EET SL	08/25/26 08:38
Total/NA	Analysis	904.0		1	791808	SWS	EET SL	09/17/26 11:57
Total/NA	Analysis	Ra226_Ra228 P		1	791876	FLC	EET SL	09/17/26 17:03

Client Sample ID: MW-04R

Lab Sample ID: 810-205778-34

Date Collected: 08/13/26 12:00

Matrix: Ground Water

Date Received: 08/19/26 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep			789147	IH	EET SL	09/02/26 08:58
Total/NA	Analysis	903.0		1	791111	SWS	EET SL	09/14/26 12:04
Total/NA	Prep	PrecSep_0			787851	IH	EET SL	08/25/26 08:38
Total/NA	Analysis	904.0		1	791808	SWS	EET SL	09/17/26 11:57
Total/NA	Analysis	Ra226_Ra228 P		1	791876	FLC	EET SL	09/17/26 17:03

Client Sample ID: MW-31

Lab Sample ID: 810-205778-35

Date Collected: 08/13/26 10:15

Matrix: Ground Water

Date Received: 08/19/26 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep			789147	IH	EET SL	09/02/26 08:58
Total/NA	Analysis	903.0		1	791111	SWS	EET SL	09/14/26 12:18
Total/NA	Prep	PrecSep_0			788398	IH	EET SL	08/27/26 16:19
Total/NA	Analysis	904.0		1	789484	SWS	EET SL	09/03/26 12:11
Total/NA	Analysis	Ra226_Ra228 P		1	791605	FLC	EET SL	09/16/26 09:22

Client Sample ID: MW-04

Lab Sample ID: 810-205778-36

Date Collected: 08/13/26 12:10

Matrix: Ground Water

Date Received: 08/19/26 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep			789147	IH	EET SL	09/02/26 08:58
Total/NA	Analysis	903.0		1	791111	SWS	EET SL	09/14/26 12:18
Total/NA	Prep	PrecSep_0			788398	IH	EET SL	08/27/26 16:19
Total/NA	Analysis	904.0		1	789504	SWS	EET SL	09/03/26 15:14
Total/NA	Analysis	Ra226_Ra228 P		1	791605	FLC	EET SL	09/16/26 09:22

Lab Chronicle

Client: Trace Analytical Laboratories
Project/Site: 26H0719 Harbor Island

Job ID: 810-205778-1

Client Sample ID: SG-02

Lab Sample ID: 810-205778-37

Date Collected: 08/13/26 13:30

Matrix: Ground Water

Date Received: 08/19/26 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep			789147	IH	EET SL	09/02/26 08:58
Total/NA	Analysis	903.0		1	791111	SWS	EET SL	09/14/26 12:17
Total/NA	Prep	PrecSep_0			788398	IH	EET SL	08/27/26 16:19
Total/NA	Analysis	904.0		1	789484	SWS	EET SL	09/03/26 12:11
Total/NA	Analysis	Ra226_Ra228 P		1	791605	FLC	EET SL	09/16/26 09:22

Client Sample ID: SG-07

Lab Sample ID: 810-205778-38

Date Collected: 08/13/26 14:00

Matrix: Ground Water

Date Received: 08/19/26 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep			789147	IH	EET SL	09/02/26 08:58
Total/NA	Analysis	903.0		1	791111	SWS	EET SL	09/14/26 12:18
Total/NA	Prep	PrecSep_0			788398	IH	EET SL	08/27/26 16:19
Total/NA	Analysis	904.0		1	789484	SWS	EET SL	09/03/26 12:10
Total/NA	Analysis	Ra226_Ra228 P		1	791605	FLC	EET SL	09/16/26 09:22

Laboratory References:

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Accreditation/Certification Summary

Client: Trace Analytical Laboratories
Project/Site: 26H0719 Harbor Island

Job ID: 810-205778-1

Laboratory: Eurofins St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-27
ANAB	Dept. of Defense ELAP	L2305	04-06-28
ANAB	Dept. of Energy	L2305.01	04-06-28
ANAB	ISO/IEC 17025	L2305	04-06-27
Arizona	State	AZ0813	12-08-26
California	Los Angeles County Sanitation Districts	10259	06-30-22 *
California	State	2886	06-30-27
Connecticut	State	PH-0241	03-31-27
Florida	NELAP	E87689	06-30-27
Georgia (DW)	State	C061	06-30-27
HI - RadChem Recognition	State	n/a	06-30-26 *
Illinois	NELAP	200023	11-30-26
Iowa	State	373	12-01-26
Kansas	NELAP	E-10236	10-31-26
Kentucky (DW)	State	KY90125	12-31-26
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-26
Louisiana (All)	NELAP	106151	06-30-27
Louisiana (DW)	State	LA011	12-31-26
Maine	State	MO00054	03-05-28
Maryland	State	310	09-30-27
Massachusetts	State	M-MO054	06-30-27
MI - RadChem Recognition	State	9005	06-30-27
Missouri	State	780	06-30-28
Nevada	State	MO00054	07-31-27
New Hampshire	NELAP	2100	02-04-27
New Jersey	NELAP	MO002	06-30-27
New Mexico	State	MO00054	06-30-27
New York	NELAP	11616	04-01-27
North Carolina (DW)	State	29700	07-31-27
North Dakota	State	R-207	06-30-27
Oklahoma	NELAP	9997	12-31-26
Oregon	NELAP	4157	09-01-27
Pennsylvania	NELAP	68-00540	02-28-27
Rhode Island	State	LAO00392	12-30-26
South Carolina	State	85002	06-30-26 *
Texas	NELAP	T104704193	07-31-27
US Fish & Wildlife	US Federal Programs	058448	07-31-27
USDA	US Federal Programs	525-23-138-94730	05-18-26 *
Utah	NELAP	MO00054	07-31-27
Vermont	State	VT 87689	03-20-27
Virginia	NELAP	460230	09-30-26
Washington	State	C592	08-30-27
West Virginia DEP	State	381	10-31-26

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Trace Analytical Laboratories
Project/Site: 26H0719 Harbor Island

Job ID: 810-205778-1

Method	Method Description	Protocol	Laboratory
903.0	Radium-226 (GFPC) for Drinking Water	EPA	EET SL
904.0	Radium-228 (GFPC) for Drinking Water	EPA	EET SL
Ra226_Ra228 P	Combined Radium-226 and Radium-228	EETSTL	EET SL
PrecSep	Preparation, Precipitate Separation	None	EET SL
PrecSep_0	Preparation, Precipitate Separation	None	EET SL

Protocol References:

EETSTL = Eurofins St. Louis, Facility Standard Operating Procedure

EPA = US Environmental Protection Agency

None = None

Laboratory References:

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: Trace Analytical Laboratories
Project/Site: 26H0719 Harbor Island

Job ID: 810-205778-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
810-205778-1	MW-41	Ground Water	08/10/26 12:38	08/19/26 09:00	Michigan
810-205778-2	MW-09	Ground Water	08/10/26 13:46	08/19/26 09:00	Michigan
810-205778-3	MW-10	Ground Water	08/10/26 15:10	08/19/26 09:00	Michigan
810-205778-4	MWT-10	Ground Water	08/10/26 15:10	08/19/26 09:00	Michigan
810-205778-5	MW-42	Ground Water	08/10/26 15:15	08/19/26 09:00	Michigan
810-205778-6	MW-30	Ground Water	08/11/26 09:00	08/19/26 09:00	Michigan
810-205778-7	MW-07	Ground Water	08/11/26 10:15	08/19/26 09:00	Michigan
810-205778-8	MW-43	Ground Water	08/11/26 11:20	08/19/26 09:00	Michigan
810-205778-9	MW-20	Ground Water	08/11/26 12:45	08/19/26 09:00	Michigan
810-205778-10	MW-17	Ground Water	08/11/26 13:50	08/19/26 09:00	Michigan
810-205778-11	MW-18	Ground Water	08/11/26 15:05	08/19/26 09:00	Michigan
810-205778-12	MWT-18	Ground Water	08/11/26 15:30	08/19/26 09:00	Michigan
810-205778-13	MW-37	Ground Water	08/11/26 09:22	08/19/26 09:00	Michigan
810-205778-14	MW-38	Ground Water	08/11/26 09:50	08/19/26 09:00	Michigan
810-205778-15	MW-36	Ground Water	08/11/26 10:38	08/19/26 09:00	Michigan
810-205778-16	MW01RB	Ground Water	08/11/26 12:40	08/19/26 09:00	Michigan
810-205778-17	MW-01R	Ground Water	08/11/26 13:40	08/19/26 09:00	Michigan
810-205778-18	MW-13	Ground Water	08/11/26 15:02	08/19/26 09:00	Michigan
810-205778-19	MW-16	Ground Water	08/11/26 16:30	08/19/26 09:00	Michigan
810-205778-20	MWT-16	Ground Water	08/11/26 16:30	08/19/26 09:00	Michigan
810-205778-21	MW-39	Ground Water	08/12/26 10:00	08/19/26 09:00	Michigan
810-205778-22	MW-02	Ground Water	08/12/26 11:44	08/19/26 09:00	Michigan
810-205778-23	MW-11	Ground Water	08/12/26 13:40	08/19/26 09:00	Michigan
810-205778-24	MW-06	Ground Water	08/12/26 14:48	08/19/26 09:00	Michigan
810-205778-25	MW-34	Ground Water	08/12/26 16:02	08/19/26 09:00	Michigan
810-205778-26	MW-19	Ground Water	08/12/26 09:35	08/19/26 09:00	Michigan
810-205778-27	MW-32	Ground Water	08/12/26 10:40	08/19/26 09:00	Michigan
810-205778-28	MW-08	Ground Water	08/12/26 12:00	08/19/26 09:00	Michigan
810-205778-29	MW-28	Ground Water	08/12/26 13:55	08/19/26 09:00	Michigan
810-205778-30	MW-27	Ground Water	08/12/26 15:10	08/19/26 09:00	Michigan
810-205778-31	MW-12	Ground Water	08/12/26 16:30	08/19/26 09:00	Michigan
810-205778-32	MW-33	Ground Water	08/13/26 08:52	08/19/26 09:00	Michigan
810-205778-33	MW-03	Ground Water	08/13/26 10:34	08/19/26 09:00	Michigan
810-205778-34	MW-04R	Ground Water	08/13/26 12:00	08/19/26 09:00	Michigan
810-205778-35	MW-31	Ground Water	08/13/26 10:15	08/19/26 09:00	Michigan
810-205778-36	MW-04	Ground Water	08/13/26 12:10	08/19/26 09:00	Michigan
810-205778-37	SG-02	Ground Water	08/13/26 13:30	08/19/26 09:00	Michigan
810-205778-38	SG-07	Ground Water	08/13/26 14:00	08/19/26 09:00	Michigan

810-205778 Chain of Custody

110 S. Hill Street
South Bend, IN 46617
T: 1.800.332.4345
F: 1.574.233.8207

Order #

Batch # _____

www.EurofinsUS.com/Eaton

Shaded area for EEA use only

CHAIN OF CUSTODY RECORD

REPORT TO:	SAMPLER (Signature)	PWS ID #	STATE (sample origin)	PROJECT NAME	PO#
Tracesubout@trace-labs.com Trace Analytical Laboratories, Inc., 2241 Black Creek Rd., Muskegon, MI 49444 231-773-5998			MI	26H0719	26H0719
BILL TO:	COMPLIANCE MONITORING: Yes = x; No =	POPULATION SERVED	SOURCE WATER		

LAB Number	COLLECTION DATE	TIME	AM	PM	SAMPLING SITE	TEST NAME	SAMPLE REMARKS	CHLORINATED YES	CHLORINATED NO	# OF CONTAINERS	MATRIX CODE	TURNAROUND TIME
1	08/10/26	12:38		x	MW-41	Radium 228/226				1	GW	SW
2	08/10/26	13:46		x	MW-09	Radium 228/226				1	GW	SW
3	08/10/26	15:10		x	MW-10	Radium 228/226				1	GW	SW
4	08/10/26	15:10		x	MWT-10	Radium 228/226				1	GW	SW
5	08/10/26	15:15		x	MW-42	Radium 228/226				1	GW	SW
6	08/11/26	9:00	x		MW-30	Radium 228/226				1	GW	SW
7	08/11/26	10:15	x		MW-07	Radium 228/226				1	GW	SW
8	08/11/26	11:20	x		MW-43	Radium 228/226				1	GW	SW
9	08/11/26	12:45		x	MW-20	Radium 228/226				1	GW	SW
10	08/11/26	13:50		X	MW-17	Radium 228/226				1	GW	SW
11	08/11/26	15:05		X	MW-18	Radium 228/226				1	GW	SW
12	08/11/26	15:30		X	MWT-18	Radium 228/226				1	GW	SW
13	08/11/26	9:22	X		MW-37	Radium 228/226				1	GW	SW
14	08/11/26	9:50	X		MW-38	Radium 228/226				1	GW	SW

RELINQUISHED BY:(Signature)	DATE	TIME AM PM	RECEIVED BY:(Signature)	DATE	TIME AM PM
Natalie Cooper	08/18/26	17:00	Fedex		
RELINQUISHED BY:(Signature)	DATE	TIME AM PM	RECEIVED BY:(Signature) SMW 8/19/26	DATE	TIME AM PM
Fedex			8/19/26		0900
RELINQUISHED BY:(Signature)	DATE	TIME AM PM	RECEIVED FOR LABORATORY BY: Sierra Worthington	DATE	TIME AM PM

LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS SAMPLES TO CLIENT

LAB COMMENTS

St. Louis EDD

CONDITIONS UPON RECEIPT (check one):

____ Iced: Wet/Blue ____ Ambient _____ °C Upon Receipt____ N/A

MATRIX CODES:

DW-DRINKING WATER
RW-REAGENT WATER
GW-GROUND WATER
EW-EXPOSURE WATER
SW-SURFACE WATER
PW-POOL WATER
WW-WASTE WATER

TURN-AROUND TIME (TAT) - SURCHARGES

SW = Standard Written: (15 working days)	0%	IV* = Immediate Verbal: (3 working days)	100%
RV* = Rush Verbal: (5 working days)	50%	IW* =Immediate Written: (3 working days)	125%
RW* = Rush Written: (5 working days)	75%	SP* = Weekend, Holiday	CALL
		STAT* = Less than 48 hours	CALL

* Please call, expedited service not available for all testing

Samples received unannounced with less than 48 hours holding time remaining may be subject to additional charges.

Sample analysis will be provided according to the standard EEA/Water Services Terms, which are available upon request. Any other terms proposed by Customer are deemed material alterations and are rejected unless expressly agreed to in writing by EEA.

eurofins
Eaton Analytical

110 S. Hill Street
South Bend, IN 46617
T: 1.800.332.4345
F: 1.574.233.8207

Order # _____

Batch # _____

www.EurofinsUS.com/Eaton

Shaded area for EEA use only

CHAIN OF CUSTODY RECORD

REPORT TO	SAMPLER (Signature)	PWS ID #	STATE (sample origin)	PROJECT NAME	PO#
Tracesubout@trace-labs.com Trace Analytical Laboratories, Inc., 2241 Black Creek Rd., Muskegon, MI 49444 231-773-5998			MI	26H0719	26H0719
BILL TO:	COMPLIANCE MONITORING: Yes = x; No =	POPULATION SERVED	SOURCE WATER		

LAB Number	COLLECTION DATE	COLLECTION TIME	AM	PM	SAMPLING SITE	TEST NAME	SAMPLE REMARKS	CHLORINATED YES	CHLORINATED NO	# OF CONTAINERS	MATRIX CODE	TURNAROUND TIME
15	08/11/26	10:38	x		MW-36	Radium 226/228				1	GW	SW
16	08/11/26	12:40		x	MW-01RB	Radium 226/228				1	GW	SW
17	08/11/26	13:40		x	MW-01R	Radium 226/228				1	GW	SW
18	08/11/26	15:02		x	MW-13	Radium 226/228				1	GW	SW
19	08/11/26	16:30		x	MW-16	Radium 226/228				1	GW	SW
20	08/11/26	16:30		X	MWT-16	Radium 226/228				1	GW	SW
21	08/12/26	10:00	X		MW-39	Radium 226/228				1	GW	SW
22	08/12/26	11:44	X		MW-02	Radium 226/228				1	GW	SW
23	08/12/26	13:40		X	MW-11	Radium 226/228				1	GW	SW
24	08/12/26	14:48		X	MW-06	Radium 226/228				1	GW	SW
25	08/12/26	16:02		X	MW-34	Radium 226/228				1	GW	SW
26	08/12/26	9:35	X		MW-19	Radium 226/228				1	GW	SW
27	08/12/26	10:40	X		MW-32	Radium 226/228				1	GW	SW
28	08/12/26	12:00		X	MW-08	Radium 226/228				1	GW	SW

RELINQUISHED BY:(Signature)	DATE	TIME	RECEIVED BY:(Signature)	DATE	TIME
Natalie Cooper	08/18/26	17:00 AM PM	Fedex		AM PM
RELINQUISHED BY (Signature)	DATE	TIME	RECEIVED BY:(Signature)	DATE	TIME
Fedex		AM PM	Sierra Worthington	8/19/26	0900 AM PM
RELINQUISHED BY (Signature)	DATE	TIME	RECEIVED FOR LABORATORY BY:	DATE	TIME
		AM PM			AM PM

LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS SAMPLES TO CLIENT

LAB COMMENTS

St. Louis EDD

CONDITIONS UPON RECEIPT (check one).

____ Iced: Wet/Blue ____ Ambient _____ °C Upon Receipt____ N/A

MATRIX CODES:

DW-DRINKING WATER
RW-REAGENT WATER
GW-GROUND WATER
EW-EXPOSURE WATER
SW-SURFACE WATER
PW-POOL WATER
WW-WASTE WATER

TURN-AROUND TIME (TAT) - SURCHARGES

SW = Standard Written, (15 working days) 0%
RV* = Rush Verbal, (5 working days) 50%
RW* = Rush Written: (5 working days) 75%
IV* = Immediate Verbal: (3 working days) 100%
IW* =Immediate Written: (3 working days) 125%
SP* = Weekend, Holiday CALL
STAT* = Less than 48 hours CALL

* Please call, expedited service not available for all testing

Samples received unannounced with less than 48 hours holding time remaining may be subject to additional charges.

Sample analysis will be provided according to the standard EEA/Water Services Terms, which are available upon request. Any other terms proposed by Customer are deemed material alterations and are rejected unless expressly agreed to in writing by EEA.

eurofins
Eaton Analytical
110 S. Hill Street
South Bend, IN 46617
T: 1.800.332.4345
F: 1.574.233.8207

Order # _____

Batch # _____

www.EurofinsUS.com/Eaton

Shaded area for EEA use only

CHAIN OF CUSTODY RECORD

REPORT TO	SAMPLER (Signature)	PWS ID #	STATE (sample origin)	PROJECT NAME	PO#
Tracesubout@trace-labs.com Trace Analytical Laboratories Inc , 2241 Black Creek Rd , Muskegon, MI 49444 231-773-5998			MI	26H0719	26H0719
BILL TO:	COMPLIANCE MONITORING: Yes x / No	POPULATION SERVED	SOURCE WATER		

LAB Number	COLLECTION DATE	TIME	AM	PM	SAMPLING SITE	TEST NAME	SAMPLE REMARKS	CHLORINATED YES	CHLORINATED NO	# OF CONTAINERS	MATRIX CODE	TURNAROUND TIME
29	08/12/26	13:55		x	MW-28	Radium 226/226				1	GW	SW
30	08/12/26	15:10		X	MW-27	Radium 226/226				1	GW	SW
31	08/12/26	16:30		X	MW-12	Radium 226/226				1	GW	SW
32	08/13/26	8:52	X		MW-33	Radium 226/226				1	GW	SW
33	08/13/26	10:34	X		MW-03	Radium 226/226				1	GW	SW
34	08/13/26	12:00		X	MW-04R	Radium 226/226				1	GW	SW
35	08/13/26	10:15	X		MW-31	Radium 226/226				1	GW	SW
36	08/13/26	12:10		X	MW-04	Radium 226/226				1	GW	SW
37	08/13/26	13:30		X	SG-02	Radium 226/226				1	SW	SW
38	08/13/26	14:00		X	SG-07	Radium 226/226				1	SW	SW

RELINQUISHED BY:(Signature)	DATE	TIME	RECEIVED BY:(Signature)	DATE	TIME
Natalie Cooper	08/18/26	17:00 AM PM	Fedex		AM PM
RELINQUISHED BY:(Signature)	DATE	TIME	RECEIVED BY:(Signature)	DATE	TIME
Fedex		AM PM	Sierra Worthington 8/19/26		0900 AM PM
RELINQUISHED BY:(Signature)	DATE	TIME	RECEIVED FOR LABORATORY BY:	DATE	TIME
		AM PM			AM PM

LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS SAMPLES TO CLIENT

LAB COMMENTS

St. Louis EDD

CONDITIONS UPON RECEIPT (check one).

____ Iced: Wet/Blue ____ Ambient _____ °C Upon Receipt____ N/A

MATRIX CODES:

DW-DRINKING WATER
RW-REAGENT WATER
GW-GROUND WATER
EW-EXPOSURE WATER
SW-SURFACE WATER
PW-POOL WATER
WW-WASTE WATER

TURN-AROUND TIME (TAT) - SURCHARGES

SW = Standard Written (15 working days)	0%	IV* = Immediate Verbal: (3 working days)	100%
RV* = Rush Verbal: (5 working days)	50%	IW* =Immediate Written: (3 working days)	125%
RW* = Rush Written: (5 working days)	75%	SP* = Weekend, Holiday	CALL
		STAT* = Less than 48 hours	CALL

* Please call, expedited service not available for all testing

Samples received unannounced with less than 48 hours holding time remaining may be subject to additional charges.

Sample analysis will be provided according to the standard EEA/Water Services Terms, which are available upon request. Any other terms proposed by Customer are deemed material alterations and are rejected unless expressly agreed to in writing by EEA.

9/17/2026

eurofins	Document Title: Condition Upon Receipt		
	Eurofins Document Reference : STL-SR-FRM91146	Revision: 1.3	Historical Reference: ADMIN-0004
	Effective date : 13 Jul 2026		Issued by: M9YB

Client: Trace

Initiated by: SMW Date: 8/19/26 Time: 0900 Shipper: FE Package Quantity: 7

(Y/N/NA)	Thermometer ID and CF (Circle One):
____ Mercury solid samples must be received at 0- 6°C. If not, note temp below. ____ Metal solid samples must be refrigerated (0- 6°C) upon receipt. ____ If samples are from West Virginia, please fill out form ADMIN-0031. ____ Do **NOT** preserve filtration/suspension samples. Note container ID below.	ID: CF: **ID: IR-4 CF: -1.4°C**

	Shipping #(s)	Uncorrected Package Temp (°C)	Corrected Package Temp (°C)
1.	5360 7 1126 9400	18.8	17.4
2.	9499	17.4	16.0
3.	9477	17.5	16.1
4.	9455	18.6	17.2
5.	9411	19.1	17.7
6.	9433	17.4	16.0
7.	9427	19.1	17.7

Condition Circle "Y" for yes, "N" for no and "N/A" for not applicable.

Inspected by: _____

Y (N)	Are there custody seals present on the cooler?	Y N N/A	Do custody seals on bottles appear to be tampered with?
Y N (N/A)	Do custody seals on cooler appear to be tampered with?	Y N	Sample received in proper containers?
(Y) N	Were contents of cooler frisked after opening, but before unpacking?	Y N N/A	Headspace in Rn-222 samples? • Any air bubble must have NCM • If Yes, note sample ID's below
(Y) N	Sample received with COC?	Y N N/A	Individual containers frisked after unpacking?
Y N	Does the COC include the following : • sample ID's that match the container(s)? • location, date and time of collection? • collector's name? • sample preservation type?	Y N N/A	Was sample received with proper pH? pH strip lot #: _____ If not: • contact PM (do not adjust without approval) • Record sample ID and pH in notes • If pH is adjusted, record info below
Y N	Was sample received broken?	Y N N/A	Are containers for • Rn-222, C-14, Cl-36, H-3, I-129/131 • lab filtration/suspension marked with "Do Not Preserve" label?
Y N	Is sample volume sufficient for analysis?	Y N N/A	Are soil containers for C-14, H-3 & I-129/131 marked with "Do Not Dry" label?
Y N	Are there custody seals present on bottles?		

Notes:

pH Adjustment (if needed)	Date/Time of Preservation:
Preservative and lot#:	Final pH checked by (initials/date):
Amount of Preservative:	Final pH and pH strip lot#:

Eurofins South Bend
110 S Hill Street
South Bend, IN 46617
Phone: 574-233-4777 Fax: 574-233-8207

Chain of Custody Record

eurofins Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Fullmer, Karen	Carrier Tracking No(s): N/A	COC No: 810-77568.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Karen.Fullmer@et.eurofinsus.com	State of Origin: Michigan	Page: Page 1 of 5
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State - Michigan		Job #: 810-205778-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 9/21/2026			Preservation Codes: -
City: Earth City	TAT Requested (days): N/A			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: Radiological Testing	Project #: 81000263			
Site: N/A	SSOW#: N/A			Other: N/A

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0_SDWA/PrecSep_SDWAEPA 903.0 - Radium 226 (St. Louis)	904.0_SDWA/PrecSep_0_SDWAEPA 904.0 - Radium 228 (St. Louis)	Ra226+28_P_SDWACombined Radium-226 and Radium-228	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
MW-41 (810-205778-1)	8/10/26	12:38 Eastern	G	Water			X	X	X	1	
MW-09 (810-205778-2)	8/10/26	13:46 Eastern	G	Water			X	X	X	1	
MW-10 (810-205778-3)	8/10/26	15:10 Eastern	G	Water			X	X	X	1	
MWt-10 (810-205778-4)	8/10/26	15:10 Eastern	G	Water			X	X	X	1	
MW-42 (810-205778-5)	8/10/26	15:13 Eastern	G	Water			X	X	X	1	
MW-30 (810-205778-6)	8/11/26	09:00 Eastern	G	Water			X	X	X	1	
MW-07 (810-205778-7)	8/11/26	10:15 Eastern	G	Water			X	X	X	1	
MW-43 (810-205778-8)	8/11/26	11:20 Eastern	G	Water			X	X	X	1	
MW-20 (810-205778-9)	8/11/26	12:45 Eastern	G	Water			X	X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Drinking Water and Wastewater Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Drinking Water and Wastewater Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Drinking Water and Wastewater Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Drinking Water and Wastewater Central, LLC

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Perry Pehlivanlı	08/12/2026 0925	ESB			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 03/20/2026

Eurofins South Bend
110 S Hill Street
South Bend, IN 46617
Phone: 574-233-4777 Fax: 574-233-8207

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Fullmer, Karen	Carrier Tracking No(s): N/A	COC No: 810-77568.2
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Karen.Fullmer@et.eurofinsus.com	State of Origin: Michigan	Page: Page 2 of 5
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State - Michigan		Job #: 810-205778-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 9/21/2026			Preservation Codes: -
City: Earth City	TAT Requested (days): N/A			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: Radiological Testing	Project #: 81000263			
Site: N/A	SSOW#: N/A			Other: N/A

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0_SDWA/PrecSep_SDWAEPA 903.0 - Radium 226 (St. Louis)	904.0_SDWA/PrecSep_0_SDWAEPA 904.0 - Radium 228 (St. Louis)	Ra226+28_P_SDWACombined Radium-226 and Radium-228	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
MW-17 (810-205778-10)	8/11/26	13:50 Eastern	G	Water			X	X	X	1	
MW-18 (810-205778-11)	8/11/26	15:05 Eastern	G	Water			X	X	X	1	
MWT-18 (810-205778-12)	8/11/26	15:30 Eastern	G	Water			X	X	X	1	
MW-37 (810-205778-13)	8/11/26	09:22 Eastern	G	Water			X	X	X	1	
MW-38 (810-205778-14)	8/11/26	09:50 Eastern	G	Water			X	X	X	1	
MW-36 (810-205778-15)	8/11/26	10:38 Eastern	G	Water			X	X	X	1	
MW01RB (810-205778-16)	8/11/26	12:40 Eastern	G	Water			X	X	X	1	
MW-01R (810-205778-17)	8/11/26	13:40 Eastern	G	Water			X	X	X	1	
MW-13 (810-205778-18)	8/11/26	15:02 Eastern	G	Water			X	X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Drinking Water and Wastewater Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Drinking Water and Wastewater Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Drinking Water and Wastewater Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Drinking Water and Wastewater Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Penny Pehling Light	08/11/2026 0925	ESB			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 03/20/2026

Eurofins South Bend
110 S Hill Street
South Bend, IN 46617
Phone: 574-233-4777 Fax: 574-233-8207

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Fullmer, Karen	Carrier Tracking No(s): N/A	COC No: 810-77568.3
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Karen.Fullmer@et.eurofinsus.com	State of Origin: Michigan	Page: Page 3 of 5
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State - Michigan		Job #: 810-205778-1
Address: 13715 Rider Trail North,	Due Date Requested: 9/21/2026			Preservation Codes: -
City: Earth City	TAT Requested (days): N/A			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: Radiological Testing	Project #: 81000263			
Site: N/A	SSOW#: N/A			Other: N/A

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0_SDWA/PrecSep_SDWAEPA 903.0 - Radium 226 (St. Louis)	904.0_SDWA/PrecSep_0_SDWAEPA 904.0 - Radium 228 (St. Louis)	Ra226+28_P_SDWACombined Radium-226 and Radium-228	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
MW-16 (810-205778-19)	8/11/26	16:30 Eastern	G	Water			X	X	X	1	
MWT-16 (810-205778-20)	8/11/26	16:30 Eastern	G	Water			X	X	X	1	
MW-39 (810-205778-21)	8/12/26	10:00 Eastern	G	Water			X	X	X	1	
MW-02 (810-205778-22)	8/12/26	11:44 Eastern	G	Water			X	X	X	1	
MW-11 (810-205778-23)	8/12/26	13:40 Eastern	G	Water			X	X	X	1	
MW-06 (810-205778-24)	8/12/26	14:48 Eastern	G	Water			X	X	X	1	
MW-34 (810-205778-25)	8/12/26	16:02 Eastern	G	Water			X	X	X	1	
MW-19 (810-205778-26)	8/12/26	09:35 Eastern	G	Water			X	X	X	1	
MW-32 (810-205778-27)	8/12/26	10:40 Eastern	G	Water			X	X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Drinking Water and Wastewater Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Drinking Water and Wastewater Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Drinking Water and Wastewater Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Drinking Water and Wastewater Central, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Penny Pehlenkoft	08/21/2026 0925	ESB			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 03/20/2026

Eurofins South Bend
110 S Hill Street
South Bend, IN 46617
Phone: 574-233-4777 Fax: 574-233-8207

Chain of Custody Record

eurofins Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Fullmer, Karen	Carrier Tracking No(s): N/A	COC No: 810-77568.4
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Karen.Fullmer@et.eurofinsus.com	State of Origin: Michigan	Page: Page 4 of 5
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State - Michigan		Job #: 810-205778-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 9/21/2026			Preservation Codes: -
City: Earth City	TAT Requested (days): N/A			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: Radiological Testing	Project #: 81000263			
Site: N/A	SSOW#: N/A			Other: N/A

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0_SDWA/PrecSep_SDWAEPA 903.0 - Radium 226 (St. Louis)	904.0_SDWA/PrecSep_0_SDWAEPA 904.0 - Radium 228 (St. Louis)	Ra226+28_P_SDWACombined Radium-226 and Radium-228	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
MW-08 (810-205778-28)	8/12/26	12:00 Eastern	G	Water			X	X	X	1	
MW-28 (810-205778-29)	8/12/26	13:55 Eastern	G	Water			X	X	X	1	
MW-27 (810-205778-30)	8/12/26	15:10 Eastern	G	Water			X	X	X	1	
MW-12 (810-205778-31)	8/12/26	16:30 Eastern	G	Water			X	X	X	1	
MW-33 (810-205778-32)	8/13/26	08:52 Eastern	G	Water			X	X	X	1	
MW-03 (810-205778-33)	8/13/26	10:34 Eastern	G	Water			X	X	X	1	
MW-04R (810-205778-34)	8/13/26	12:00 Eastern	G	Water			X	X	X	1	
MW-31 (810-205778-35)	8/13/26	10:15 Eastern	G	Water			X	X	X	1	
MW-04 (810-205778-36)	8/13/26	12:10 Eastern	G	Water			X	X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Drinking Water and Wastewater Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Drinking Water and Wastewater Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Drinking Water and Wastewater Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Drinking Water and Wastewater Central, LLC.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by: Perry Pehling Jr	Date/Time: 08/12/2026 0925	Company: ESB	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 03/20/2026

Eurofins South Bend
110 S Hill Street
South Bend, IN 46617
Phone: 574-233-4777 Fax: 574-233-8207

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Fullmer, Karen	Carrier Tracking No(s): N/A	COC No: 810-77568.5
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Karen.Fullmer@et.eurofinsus.com	State of Origin: Michigan	Page: Page 5 of 5
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State - Michigan		Job #: 810-205778-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 9/21/2026			Preservation Codes: -
City: Earth City	TAT Requested (days): N/A			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: Radiological Testing	Project #: 81000263			
Site: N/A	SSOW#: N/A			Other: N/A

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0_SDWA/PrecSep_SDWAEPA 903.0 - Radium 226 (St. Louis)	904.0_SDWA/PrecSep_0_SDWAEPA 904.0 - Radium 228 (St. Louis)	Ra226+28_P_SDWACombined Radium-226 and Radium-228	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
SG-02 (810-205778-37)	8/13/26	13:30 Eastern	G	Water			X	X	X	1	
SG-07 (810-205778-38)	8/13/26	14:00 Eastern	G	Water			X	X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Drinking Water and Wastewater Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Drinking Water and Wastewater Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Drinking Water and Wastewater Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Drinking Water and Wastewater Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Perry Pehlivanoff	08/21/2026 0925	ESB			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: Trace Analytical Laboratories

Job Number: 810-205778-1

Login Number: 205778

List Source: Eurofins South Bend

List Number: 1

Creator: Pehling-Wright, Penny

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
Samples were received on ice.	False	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	False	Thermal preservation not required.
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Samples do not require splitting or compositing.	True	
Were samples preserved to correct pH upon receipt, if applicable?	True	
Sample Preservative Verified	True	
Container provided by Eurofins	True	

Login Sample Receipt Checklist

Client: Trace Analytical Laboratories

Job Number: 810-205778-1

Login Number: 205778
List Number: 2
Creator: Forrest, Cheyenne L

List Source: Eurofins St. Louis
List Creation: 08/21/26 09:36 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Trace Analytical Laboratories, Inc.
2241 Black Creek Road
Muskegon, MI 49444-2673

TRACE
ANALYTICAL LABORATORIES, INC.

231-773-5998 Phone
888-979-4469 Fax
www.trace-labs.com

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Muskegon, MI 49444-2673

Phone 231.773.5998
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www.trace-labs.com

Trace ID No. ~~NC8/12/26~~ 26H0718 ~~26H0719~~

Report Results To:

Company Name: HDR, Inc.
Report To: Molly Reeves
Mailing Address: 1000 Oakbrook Drive, Suite 200
City, State, Zip Code: Ann Arbor, MI 48104
Office Phone: Cell Phone: 734.263.7138
Email Address: molly.reeves@hdrinc.com

Bill To:

PO #: 10337505.006
Contact Name: Lara Zawaideh
Billing Address (if different):
City, State, Zip Code:
Phone Number: 734.223.9074
Billing Email Address: lara.zawaideh@hdrinc.com

Trace Use:

Logged By: NC
Checked By: LN
Soil Volatiles Preserved (circle if applicable): MeOH Low Level Lab
Sample Collection Time (Hrs):

Requested Turnaround Times (TAT)

☒ Standard: 5-10 Business days
☐ 3 Business Days*
☐ 1 Business Day*
** Rush TAT Requires Prior Approval*

Matrix Key:

WW = Wastewater, DW = Drinking Water, GW = Groundwater, LW = Liquid Waste, O = Oil, WI = Wipes, S = Solid, SL = Sludge, A = Air, U = Unknown

Project Name: City of Grand Haven - Harbor Island
Sampled By (print): Andrew Byks / Franklin Davis Roy

Trace No.	Sample Collection Date	Sample Collection Time	Sample ID/Name	Metals Field Filterd (Y or N)	Matrix - see above →	Number of Containers	Preservation: Cool ≤ 4°C	Hydrochloric Acid (HCl)	Nitric Acid (HNO3)	Sulfuric Acid (H2SO4)	Sodium Thiosulfate	Sodium Hydroxide (NaOH)	Ascorbic Acid	Trizma	Other	40 CFR Appendix III to Part 257	40 CFR Appendix IV to Part 257	Additional MI Part 115 Metals	Total Suspended Solids (TSS)	See attached list. ~~AB~~	LLHg	Possible Health Hazards?	Remarks/Notes
10	8/11/26	1350	MW-17	N	GW	4	4		2							X	X	X	X		X		
11	8/11/26	1505	MW-18	N	GW	4	4		2							X	X	X	X		X		
12	8/11/26	1530	MWT-18	N	GW	4	4		2							X	X	X	X		X		
13	8/11/26	0922	MW-37	N	GW	4	4		2							X	X	X	X		X		
14	8/11/26	950	MW-38	N	GW	4	4		2							X	X	X	X		X		
15	8/11/26	1038	MW-36	N	GW	4	4		2							X	X	X	X		X		
16	8/11/26	1240	MW-01RB	N	GW	4	4		2							X	X	X	X		X		
17	8/11/26	1340	MW-01R	N	GW	4	4		2							X	X	X	X		X		
18	8/11/26	1502	MW-13	N	GW	4	4		2							X	X	X	X		X		
19	8/11/26	1630	MW-16	N	GW	4	4		2							X	X	X	X		X		

Please Sign

	Released By	Date	Time	Received By
1)				
2)		8/12/26	0819	
3)				
4)				

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Trace ID No. WC 8/11/26 26H0718

Report Results To:

Company Name: HDR, Inc.
Report To: Molly Reeves
Mailing Address: 1000 Oakbrook Drive, Suite 200
City, State, Zip Code: Ann Arbor, MI 48104
Office Phone: Cell Phone: 734.263.7138
Email Address: molly.reeves@hdrinc.com

Bill To:

PO #: 10337505.006
Contact Name: Lara Zawaideh
Billing Address (if different):
City, State, Zip Code:
Phone Number: 734.223.9074
Billing Email Address: lara.zawaideh@hdrinc.com

Trace Use:

Logged By: NC
Checked By: LZ
Soil Volatiles Preserved (circle if applicable): MeOH Low Level Lab
Sample Collection Time (Hrs):

Requested Turnaround Times (TAT)

☒ Standard: 5-10 Business days
☐ 3 Business Days*
☐ 1 Business Day*
** Rush TAT Requires Prior Approval*

Matrix Key:

WW = Wastewater, DW = Drinking Water, GW = Groundwater, LW = Liquid Waste, O = Oil, WI = Wipes, S = Solid, SL = Sludge, A = Air, U = Unknown

Project Name: City of Grand Haven - Harbor Island
Sampled By (print): Andrew Bykes / Franklin Davis Ray

Trace No.	Sample Collection Date	Sample Collection Time	Sample ID/Name	Metals Field Filterd (Y or N)	Matrix - see above →	Number of Containers	Preservation: Cool ≤ 4°C	Preservation: Hydrochloric Acid (HCl)	Preservation: Nitric Acid (HNO3)	Preservation: Sulfuric Acid (H2SO4)	Preservation: Sodium Thiosulfate	Preservation: Sodium Hydroxide (NaOH)	Preservation: Ascorbic Acid	Preservation: Trizma	Preservation: Other	Analysis Requested: 40 CFR Appendix III to Part 257	Analysis Requested: 40 CFR Appendix IV to Part 257	Analysis Requested: Additional MI Part 115 Metals	Analysis Requested: Total Suspended Solids (TSS)	Analysis Requested: See attached list. AB	Analysis Requested: LL Hg	Remarks/Notes	Possible Health Hazards?
20	8/11/26	1030	MWT-10	N	GW	4	4		2							X	X	X	X				
	8/11/26	1120	LLHGTB-08112026	N	W	1	1														X		

	Released By	Received By	Date	Time
1)	Andrew Bykes		8/12/26	0819
2)				
3)				
4)				

Please Sign

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Page 1 of 2

Trace ID No. 26H0719

Report Results To:

Company Name: HDR, Inc.
Report To: Molly Reeves
Mailing Address: 1000 Oakbrook Drive, Suite 200
City, State, Zip Code: Ann Arbor, MI 48104
Office Phone: Cell Phone: 734.263.7138
Email Address: molly.reeves@hdrinc.com

Bill To:

PO # 10337505.006
Contact Name: Lara Zawaideh
Billing Address (if different):
City, State, Zip Code:
Phone Number: 734.223.9074
Billing Email Address: lara.zawaideh@hdrinc.com

Trace Use:

Logged By: NC
Checked By: LZ

Soil Volatiles Preserved (circle if applicable): MeOH Low Level Lab

Sample Collection Time (Hrs):

Requested Turnaround Times (TAT)

☒ Standard: 5-10 Business days
☐ 3 Business Days*
☐ 1 Business Day*
** Rush TAT Requires Prior Approval*

Matrix Key:

WW = Wastewater, DW = Drinking Water, GW = Groundwater, LW = Liquid Waste, O = Oil, WI = Wipes, S = Solid, SL = Sludge, A = Air, U = Unknown

Project Name: City of Grand Haven - Harbor Island

Sampled By (print): Andrew Byks / Franklin Davis Ray

Trace No:	Sample Collection Date	Sample Collection Time	Sample ID/Name	Metals Field Filterd (Y or N)	Matrix - see above →	Number of Containers	Preservation: Cool ≤ 4*C	Hydrochloric Acid (HCl)	Nitric Acid (HNO3)	Sulfuric Acid (H2SO4)	Sodium Thiosulfate	Sodium Hydroxide (NaOH)	Ascorbic Acid	Trizma	Other	40 CFR Appendix III to Part 257	40 CFR Appendix IV to Part 257	Additional MI Part 115 Metals	Total Suspended Solids (TSS)	~~See attached list.~~ AB	LLHG	Possible Health Hazards?	Remarks/Notes
21	8/12/26	1000	MW-39	N	GW	4	Y									X	X	X	X		X		
22	8/12/26	1144	MW-02	N	GW	4	Y									X	X	X	X		X		
23	8/12/26	1340	MW-11	N	GW	4	Y									X	X	X	X		X		
24	8/12/26	1448	MW-06	N	GW	4	Y									X	X	X	X		X		
25	8/12/26	1602	MW-34	N	GW	4	Y									X	X	X	X		X		
26	8/12/26	9355	MW-19	N	GW	4	Y									X	X	X	X		X		
27	8/12/26	1040	MW-32	N	GW	4	Y									X	X	X	X		X		
28	8/12/26	1200	MW-08	N	GW	4	Y									X	X	X	X		X		
29	8/12/26	1355	MW-28	N	GW	4	Y									X	X	X	X		X		
30	8/12/26	1510	MW-27	N	GW	4	Y									X	X	X	X		X		

Analysis Requested

	Released By	Date	Time	Received By
1)		8/14/26	0912	
2)				
3)				
4)				

Please Sign

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Page 2 of 2

Trace ID No. 260719

Report Results To:

Company Name:	HDR, Inc.
Report To:	Molly Reeves
Mailing Address:	1000 Oakbrook Drive, Suite 200
City, State, Zip Code:	Ann Arbor, MI 48104
Office Phone:	Cell Phone: 734.263.7138
Email Address:	molly.reeves@hdrinc.com

Bill To:

PO #:	10337505.006
Contact Name:	Lara Zawaideh
Billing Address (if different):	
City, State, Zip Code:	
Phone Number:	734.223.9074
Billing Email Address:	lara.zawaideh@hdrinc.com

Trace Use:

Logged By: NC

Checked By:

Soil Volatiles Preserved (circle if applicable): MeOH Low Level Lab

Sample Collection Time (Hrs):

Requested Turnaround Times (TAT)

- ☒ Standard: 5-10 Business days
- ☐ 3 Business Days*
- ☐ 1 Business Day*

**Rush TAT Requires Prior Approval*

Matrix Key:

WW = Wastewater, DW = Drinking Water, GW = Groundwater, LW = Liquid Waste, O = Oil, WI = Wipes, S = Solid, SL = Sludge, A = Air, U = Unknown

Project Name: City of Grand Haven - Harbor Island

Sampled By (print): Andrew Buks / Franklin Davis Raj

Trace No.	Sample Collection Date	Sample Collection Time	Sample ID/Name	Metals Field Filterd (Y or N)	Matrix - see above →	Number of Containers	Preservation: Cool ≤ 4°C	Hydrochloric Acid (HCl)	Nitric Acid (HNO3)	Sulfuric Acid (H2SO4)	Sodium Thiosulfate	Sodium Hydroxide (NaOH)	Ascorbic Acid	Trizma	Other	40 CFR Appendix III to Part 257	40 CFR Appendix IV to Part 257	Additional MI Part 115 Metals	Total Suspended Solids (TSS)	See attached list. AB	LLHG	Remarks/Notes	Possible Health Hazards?
31	8/12/26	1630	MW-12	N	GW	4	4		1							X	X	X	X	X	X		
	8/12/26	1640	LLHGTB-08122026	—	W	1															X		
32	8/13/26	852	MW-33	N	GW	4	4		2							X	X	X	X	X	X		
33	8/13/26	1034	MW-03	N	GW	4	4		2							X	X	X	X	X	X		
34	8/13/26	1200	MW-04R	N	GW	4	4		2							X	X	X	X	X	X		
35	8/13/26	1015	MW-31	N	GW	4	4		2							X	X	X	X	X	X		
36	8/13/26	1210	MW-04	N	GW	4	4		2							X	X	X	X	X	X		
37	8/13/26	1330	SG-02	N	SW	4	4		2							X	X	X	X	X	X		
38	8/13/26	1400	SG-07	N	SW	4	4		2							X	X	X	X	X	X		
	8/13/26	1430	LLHGTB-08132026	N	W	1	1														X		

Analysis Requested

Please Sign	Released By	Date	Time	Received By	Released By	Received By	Date	Time
1)	[signature]	8/14/26	0912	2)				
3)				4)				

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☐ Check this box if you would not like your samples analyzed if received outside of the conditions outlined in the Trace Sample Acceptance Policy at www.trace-labs.com/downloads.

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888-979-4469 Fax
www.trace-labs.com

26H0719

HDR Michigan Inc.
Project Manager: Jon Mink

Sample Log In Checklist

	Original Observation	Corrected Temperature	IR-9 (CF: -0.2°C)	IR-12 (CF: -0.3°C)	IR-13 (CF: -0.6°C)	IR-14 (CF: -1.2°C)	SR1 (CF: -0.3°C)	SR2 (CF: -0.2°C)	Temp Blank	Client Sample
Date: 8/14/26										
Time: 10:20										
Initials: HM										
Package Description: Cooler										
Package Temp °C	0.0	-0.6			✓					
Representative Sample Temp °C	4.0	3.7					✓		✓	

Sample Receipt

Yes No

- [x] [ ] Received on ice or other coolant
- [x] [ ] Ice still present upon receipt
- [ ] [x] Custody seals present — [ ] Yes [ ] No — Custody seals intact (if applicable)
- [ ] Trace Courier [x] Client Drop-off — [ ] UPS [ ] Fed Ex [ ] US Mail [ ] Other

Sample Condition

Yes No N/A

- [x] [ ] [ ] All sample containers arrived unbroken and labeled
- [x] [ ] [ ] Sufficient sample to run requested analyses
- [x] [ ] [ ] Correct chemical preservative added to samples
- [ ] [x] [ ] Samples preserved at Trace (if yes, fill in preservation information below)
  Preservation - Reagent:_____ LIMS ID:_____ Date/Time:_____
- [x] [ ] [ ] Chemical preservation verified, check EMD pH test strip used (if applicable)
  [x] pH 0-2.5 (Lot: HC446906) [ ] pH 11.0-13.0 (Lot: HC022540) [ ] Other
- [ ] [ ] [x] Air bubbles absent from VOAs (no bubble greater than 6mm) _____

Chain of Custody (COC)

Yes No

- [x] [ ] All bottle labels agree with COC
- [x] [ ] COC filled out properly
- [x] [ ] COC signed by client

Notes:

MW-08, MW-19, MW-27, MW-28, MW-32

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Muskegon, MI 49444-2673

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231-773-5998 Phone
888-979-4469 Fax
www.trace-labs.com

26H0719
HDR Michigan Inc.
Project Manager: Jon Mink

Sample Log In Checklist

	Original Observation	Corrected Temperature	IR-9 (CF: -0.2°C)	IR-12 (CF: -0.3°C)	IR-13 (CF: -0.6°C)	IR-14 (CF: -1.2°C)	SR1 (CF: -0.3°C)	SR2 (CF: -0.2°C)	Temp Blank	Client Sample
Date: 8/14/26										
Time: 11:04										
Initials: HM										
Package Description: Cooler										
Package Temp °C	-0.4	-1.0			✓					
Representative Sample Temp °C	6.4	6.2						✓	✓	

Sample Receipt

Yes / No

- ☑ / ☐ Received on ice or other coolant
- ☑ / ☐ Ice still present upon receipt
- ☐ / ☑ Custody seals present — ☐ Yes ☐ No Custody seals intact (if applicable)
- ☐ Trace Courier ☑ Client Drop-off ☐ UPS ☐ Fed Ex ☐ US Mail ☐ Other

Sample Condition

Yes / No / N/A

- ☑ / ☐ / ☐ All sample containers arrived unbroken and labeled
- ☑ / ☐ / ☐ Sufficient sample to run requested analyses
- ☑ / ☐ / ☐ Correct chemical preservative added to samples
- ☐ / ☑ / ☐ Samples preserved at Trace (if yes, fill in preservation information below)
  Preservation - Reagent:_____ LIMS ID:_____ Date/Time:_____
- ☑ / ☐ / ☐ Chemical preservation verified, check EMD pH test strip used (if applicable)
  ☑ pH 0-2.5 (Lot: HC446906) ☐ pH 11.0-13.0 (Lot: HC022540) ☐ Other
- ☐ / ☐ / ☑ Air bubbles absent from VOAs (no bubble greater than 6mm) _____

Chain of Custody (COC)

Yes / No

- ☑ / ☐ All bottle labels agree with COC
- ☑ / ☐ COC filled out properly
- ☑ / ☐ COC signed by client

Notes:

MW-12, MW-31, MW-04, SG-02, SG-07

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888-979-4469 Fax
www.trace-labs.com

26H0719
HDR Michigan Inc.
Project Manager: Jon Mink

Sample Log In Checklist

	Original Observation	Corrected Temperature	IR-9 (CF: -0.2°C)	IR-12 (CF: -0.3°C)	IR-13 (CF: -0.6°C)	IR-14 (CF: -1.2°C)	SR1 (CF: -0.3°C)	SR2 (CF: -0.2°C)	Temp Blank	Client Sample
Date: 8/14/26										
Time: 11:23										
Initials: HM										
Package Description: Cooler										
Package Temp °C	0.2	-0.4			✓					
Representative Sample Temp °C	13.1	12.5			✓					✓

Sample Receipt

Yes No
- [x] [ ] Received on ice or other coolant
- [x] [ ] Ice still present upon receipt
- [ ] [x] Custody seals present — [ ] Yes [ ] No Custody seals intact (if applicable)
- [ ] Trace Courier [x] Client Drop-off [ ] UPS [ ] Fed Ex [ ] US Mail [ ] Other

Sample Condition

Yes No N/A
- [x] [ ] [ ] All sample containers arrived unbroken and labeled
- [x] [ ] [ ] Sufficient sample to run requested analyses
- [x] [ ] [ ] Correct chemical preservative added to samples
- [ ] [x] [ ] Samples preserved at Trace (if yes, fill in preservation information below)
  Preservation - Reagent:_____ LIMS ID:_____ Date/Time:_____
- [x] [ ] [ ] Chemical preservation verified, check EMD pH test strip used (if applicable)
  [x] pH 0-2.5 (Lot: HC446906) [ ] pH 11.0-13.0 (Lot: HC022540) [ ] Other
- [ ] [ ] [x] Air bubbles absent from VOAs (no bubble greater than 6mm) _____

Chain of Custody (COC)

Yes No
- [x] [ ] All bottle labels agree with COC
- [x] [ ] COC filled out properly
- [x] [ ] COC signed by client

Notes:

MW-39, MW-02, MW-11, MW-06

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Sample Log In Checklist

	Original Observation	Corrected Temperature	IR-9 (CF: -0.2°C)	IR-12 (CF: -0.3°C)	IR-13 (CF: -0.6°C)	IR-14 (CF: -1.2°C)	SR1 (CF: -0.3°C)	SR2 (CF: -0.2°C)	Temp Blank	Client Sample
Date: 8/14/26										
Time: 11:50										
Initials: HM										
Package Description: Cooler										
Package Temp °C	0.0	-0.6			✓					
Representative Sample Temp °C	9.0	8.8						✓	✓	

Sample Receipt

Yes No

- ☑ ☐ Received on ice or other coolant
- ☑ ☐ Ice still present upon receipt
- ☐ ☑ Custody seals present — ☐ Yes ☐ No Custody seals intact (if applicable)
- ☐ Trace Courier ☑ Client Drop-off — ☐ UPS ☐ Fed Ex ☐ US Mail ☐ Other

Sample Condition

Yes No N/A

- ☑ ☐ ☐ All sample containers arrived unbroken and labeled
- ☑ ☐ ☐ Sufficient sample to run requested analyses
- ☑ ☐ ☐ Correct chemical preservative added to samples
- ☐ ☑ ☐ Samples preserved at Trace (if yes, fill in preservation information below)
  Preservation - Reagent:_____ LIMS ID:_____ Date/Time:_____
- ☑ ☐ ☐ Chemical preservation verified, check EMD pH test strip used (if applicable)
  ☑ pH 0-2.5 (Lot: HC446906) ☐ pH 11.0-13.0 (Lot: HC022540) ☐ Other
- ☐ ☐ ☑ Air bubbles absent from VOAs (no bubble greater than 6mm) _____

Chain of Custody (COC)

Yes No

- ☑ ☐ All bottle labels agree with COC
- ☑ ☐ COC filled out properly
- ☑ ☐ COC signed by client

Notes:

MW-34, ~~TLHG TB-08122026~~, MW-33, MW-03, MW-04R, ~~TLHG TB-08132026~~

HM 8/14/26

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Project Manager: Jon Mink

Sample Log In Checklist

	Original Observation	Corrected Temperature	IR-9 (CF: -0.2°C)	IR-12 (CF: -0.3°C)	IR-13 (CF: -0.6°C)	IR-14 (CF: -1.2°C)	SR1 (CF: -0.3°C)	SR2 (CF: -0.2°C)	Temp Blank	Client Sample
Date: 8/12/26										
Time: 0935										
Initials: MJ										
Package Description: Cooler										
Package Temp °C	0.3	0.0		✓						
Representative Sample Temp °C	2.0	1.8							✓	✓

Sample Receipt

Yes	No		
☑	☐	Received on ice or other coolant	
☑	☐	Ice still present upon receipt	
☐	☑	Custody seals present	☐ Yes ☐ No Custody seals intact (if applicable)
☐	☑	Trace Courier / Client Drop-off	☐ UPS ☐ Fed Ex ☐ US Mail ☐ Other

Sample Condition

Yes	No	N/A	
☑	☐	☐	All sample containers arrived unbroken and labeled
☑	☐	☐	Sufficient sample to run requested analyses
☑	☐	☐	Correct chemical preservative added to samples
☐	☑	☐	Samples preserved at Trace (if yes, fill in preservation information below)
			Preservation - Reagent:_____ LIMS ID:_____ Date/Time:_____
☑	☐	☐	Chemical preservation verified, check EMD pH test strip used (if applicable)
			☑ pH 0-2.5 (Lot: HC446906) ☐ pH 11.0-13.0 (Lot: HC022540) ☐ Other
☐	☐	☑	Air bubbles absent from VOAs (no bubble greater than 6mm) _____

Chain of Custody (COC)

Yes	No	
☑	☐	All bottle labels agree with COC
☑	☐	COC filled out properly
☑	☐	COC signed by client

Notes:

MW-18
MWT-18
MW-30
MW-17
MW-20
MW-07
LLHGTB08102026

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HDR Michigan Inc.
Project Manager: Jon Mink

Sample Log In Checklist

	Original Observation	Corrected Temperature	IR-9 (CF: -0.2°C)	IR-12 (CF: -0.3°C)	IR-13 (CF: -0.6°C)	IR-14 (CF: -1.2°C)	SR1 (CF: -0.3°C)	SR2 (CF: -0.2°C)	Temp Blank	Client Sample
Date: 8/12/26										
Time: 0941										
Initials: MJ										
Package Description: Cooler										
Package Temp °C	0.3	0.0		/						
Representative Sample Temp °C	4.6	4.3		/						/

Sample Receipt

Yes No

- [x] [ ] Received on ice or other coolant
- [x] [ ] Ice still present upon receipt
- [ ] [x] Custody seals present — [ ] Yes [ ] No Custody seals intact (if applicable)
- [ ] Trace Courier [x] Client Drop-off — [ ] UPS [ ] Fed Ex [ ] US Mail [ ] Other

Sample Condition

Yes No N/A

- [x] [ ] [ ] All sample containers arrived unbroken and labeled
- [x] [ ] [ ] Sufficient sample to run requested analyses
- [x] [ ] [ ] Correct chemical preservative added to samples
- [ ] [x] [ ] Samples preserved at Trace (if yes, fill in preservation information below)
  Preservation - Reagent:_____ LIMS ID:_____ Date/Time:_____
- [x] [ ] [ ] Chemical preservation verified, check EMD pH test strip used (if applicable)
  [x] pH 0-2.5 (Lot: HC446906) [ ] pH 11.0-13.0 (Lot: HC022540) [ ] Other
- [ ] [ ] [x] Air bubbles absent from VOAs (no bubble greater than 6mm) _____

Chain of Custody (COC)

Yes No

- [x] [ ] All bottle labels agree with COC
- [x] [ ] COC filled out properly
- [x] [ ] COC signed by client

Notes:

Form 70-A.65
Effective 7/21/26

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ANALYTICAL LABORATORIES, INC.

26H0719

HDR Michigan Inc.
Project Manager: Jon Mink

Sample Log In Checklist

	Original Observation	Corrected Temperature	IR-9 (CF: -0.2°C)	IR-12 (CF: -0.3°C)	IR-13 (CF: -0.6°C)	IR-14 (CF: -1.2°C)	SR1 (CF: -0.3°C)	SR2 (CF: -0.2°C)	Temp Blank	Client Sample
Date: 8/12/26										
Time: 0941										
Initials: MS										
Package Description: Cooler										
Package Temp °C	0.3	0.0		/						
Representative Sample Temp °C	4.6	4.3		/						/

Sample Receipt

Yes	No		
☒	☐	Received on ice or other coolant	
☒	☐	Ice still present upon receipt	
☐	☒	Custody seals present	☐ Yes ☐ No Custody seals intact (if applicable)
☐	☒	Trace Courier / Client Drop-off	☐ UPS ☐ Fed Ex ☐ US Mail ☐ Other

Sample Condition

Yes	No	N/A	
☒	☐	☐	All sample containers arrived unbroken and labeled
☒	☐	☐	Sufficient sample to run requested analyses
☒	☐	☐	Correct chemical preservative added to samples
☐	☒	☐	Samples preserved at Trace (if yes, fill in preservation information below)
			Preservation - Reagent:_____ LIMS ID:_____ Date/Time:_____
☒	☐	☐	Chemical preservation verified, check EMD pH test strip used (if applicable)
			☒ pH 0-2.5 (Lot: HC446906) ☐ pH 11.0-13.0 (Lot: HC022540) ☐ Other
☐	☐	☒	Air bubbles absent from VOAs (no bubble greater than 6mm) _____

Chain of Custody (COC)

Yes	No	
☒	☐	All bottle labels agree with COC
☒	☐	COC filled out properly
☒	☐	COC signed by client

Notes:

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Sample Log In Checklist

	Original Observation	Corrected Temperature	IR-9 (CF: -0.2°C)	IR-12 (CF: -0.3°C)	IR-13 (CF: -0.6°C)	IR-14 (CF: -1.2°C)	SR1 (CF: -0.3°C)	SR2 (CF: -0.2°C)	Temp Blank	Client Sample
Date: 8/12/26										
Time: 0935										
Initials: MJ										
Package Description: Cooler										
Package Temp °C	0.3	0.0		/						
Representative Sample Temp °C	2.0	1.8							/	/

Sample Receipt

Yes No

- [x] [ ] Received on ice or other coolant
- [x] [ ] Ice still present upon receipt
- [ ] [x] Custody seals present — [ ] Yes [ ] No Custody seals intact (if applicable)
- [ ] Trace Courier [x] Client Drop-off [ ] UPS [ ] Fed Ex [ ] US Mail [ ] Other

Sample Condition

Yes No N/A

- [x] [ ] [ ] All sample containers arrived unbroken and labeled
- [x] [ ] [ ] Sufficient sample to run requested analyses
- [x] [ ] [ ] Correct chemical preservative added to samples
- [ ] [x] [ ] Samples preserved at Trace (if yes, fill in preservation information below)
  Preservation - Reagent:_____ LIMS ID:_____ Date/Time:_____
- [x] [ ] [ ] Chemical preservation verified, check EMD pH test strip used (if applicable)
  [x] pH 0-2.5 (Lot: HC446906) [ ] pH 11.0-13.0 (Lot: HC022540) [ ] Other
- [ ] [ ] [x] Air bubbles absent from VOAs (no bubble greater than 6mm) _____

Chain of Custody (COC)

Yes No

- [x] [ ] All bottle labels agree with COC
- [x] [ ] COC filled out properly
- [x] [ ] COC signed by client

Notes:

MW-18
MWT-18
MW-30
MW-17
MW-20
MW-07
LLHGTB08102026

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Sample Log In Checklist

	Original Observation	Corrected Temperature	IR-9 (CF: -0.2°C)	IR-12 (CF: -0.3°C)	IR-13 (CF: -0.6°C)	IR-14 (CF: -1.2°C)	SR1 (CF: -0.3°C)	SR2 (CF: -0.2°C)	Temp Blank	Client Sample
Date: 8/12/26										
Time: 0929										
Initials: MJ										
Package Description: Cooler										
Package Temp °C	2.6	2.3		/						
Representative Sample Temp °C	5.5	5.2		/						/

Sample Receipt

Yes No

- ☐ ☐ Received on ice or other coolant
- ☐ ☐ Ice still present upon receipt
- ☐ ☐ Custody seals present ☐ Yes ☐ No Custody seals intact (if applicable)
- ☐ Trace Courier ☐ Client Drop-off ☐ UPS ☐ Fed Ex ☐ US Mail ☐ Other

Sample Condition

Yes No N/A

- ☑ ☐ ☐ All sample containers arrived unbroken and labeled
- ☑ ☐ ☐ Sufficient sample to run requested analyses
- ☑ ☐ ☐ Correct chemical preservative added to samples
- ☐ ☑ ☐ Samples preserved at Trace (if yes, fill in preservation information below)
  Preservation - Reagent:_____ LIMS ID:_____ Date/Time:_____
- ☑ ☐ ☐ Chemical preservation verified, check EMD pH test strip used (if applicable)
  ☑ pH 0-2.5 (Lot: HC446906) ☐ pH 11.0-13.0 (Lot: HC022540) ☐ Other
- ☐ ☐ ☑ Air bubbles absent from VOAs (no bubble greater than 6mm) _____

Chain of Custody (COC)

Yes No

- ☑ ☐ All bottle labels agree with COC
- ☑ ☐ COC filled out properly
- ☑ ☐ COC signed by client

Notes:

MW-30 MW-18
MW-42
MW-07
MW-43
MW-20
MW-17
MW-18

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Effective 7/21/26

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Appendix F

Statistical Outputs

Table 1: Summary Statistics, Non-Detects Included

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit[a]	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness
11_2_3_105	MW-01R	Appendix III	Boron	mg/L	20	0	0%	2022-11-29 to 2026-08-11	Gamma; Lognormal; Normal	Normal	109	110	38.0	160	36.6	0.334	-0.349
11_2_3_107	MW-01R	Appendix III	Calcium	mg/L	20	0	0%	2022-11-29 to 2026-08-11	Gamma; Lognormal; Normal	Normal	237	220	130	420	83.4	0.352	0.856
11_2_3_108	MW-01R	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	2022-11-29 to 2026-08-11	Gamma; Lognormal; Normal	Normal	125	130	46.0	210	46.7	0.375	-0.269
11_2_3_112	MW-01R	Appendix III	Fluoride	mg/L	20	0	0%	2022-11-29 to 2026-08-11	Normal	Normal	12	13.5	4.80	17.0	3.54	0.296	-0.547
11_2_3_120	MW-01R	Appendix III	pH (field)	su	20	0	0%	2022-11-29 to 2026-08-11	Nonparametric	Nonparametric	7.62	7.72	6.02	7.81	0.387	0.0507	-4.11
11_2_3_124	MW-01R	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	2022-11-29 to 2026-08-11	Gamma; Normal	Gamma	438	390	8.80	1000	309	0.706	0.409
11_2_3_126	MW-01R	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	2022-11-29 to 2026-08-11	Gamma; Lognormal; Normal	Normal	2375	2400	2100	2600	129	0.0544	-0.132
11_2_4_101	MW-01R	Appendix IV	Antimony	mg/L	20	3	15%	2022-11-29 to 2026-08-11	Nonparametric	Nonparametric	0.000514	0.000285	0.000170	0.00290	0.000626	1.22	3.26
11_2_4_102	MW-01R	Appendix IV	Arsenic	mg/L	20	0	0%	2022-11-29 to 2026-08-11	Nonparametric	Nonparametric	0.00156	0.00145	0.000730	0.00410	0.000687	0.439	2.77
11_2_4_103	MW-01R	Appendix IV	Barium	mg/L	20	0	0%	2022-11-29 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.376	0.355	0.200	0.810	0.153	0.407	1.26
11_2_4_104	MW-01R	Appendix IV	Beryllium	mg/L	20	2	10%	2022-11-29 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.000210	0.000200	0.0000520	0.000440	0.000109	0.518	0.470
11_2_4_106	MW-01R	Appendix IV	Cadmium	mg/L	20	13	65%	2022-11-29 to 2026-08-11	Gamma; Lognormal	Nonparametric	0.000254	0.0000925	0.0000320	0.00190	0.000411	1.62	3.71
11_2_4_109	MW-01R	Appendix IV	Chromium, Total	mg/L	20	0	0%	2022-11-29 to 2026-08-11	Lognormal	Lognormal	0.00324	0.00200	0.00130	0.0220	0.00450	1.39	4.20
11_2_4_110	MW-01R	Appendix IV	Cobalt	mg/L	20	0	0%	2022-11-29 to 2026-08-11	Nonparametric	Nonparametric	0.00684	0.00120	0.000640	0.0840	0.0188	2.75	4.05
11_2_4_113	MW-01R	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	2022-11-29 to 2026-08-11	Normal	Normal	12	13.5	4.80	17.0	3.54	0.296	-0.547
11_2_4_115	MW-01R	Appendix IV	Lead	mg/L	20	2	10%	2022-11-29 to 2026-08-11	Lognormal	Lognormal	0.00168	0.000935	0.000350	0.00750	0.00186	1.11	2.22
11_2_4_116	MW-01R	Appendix IV	Lithium	mg/L	20	0	0%	2022-11-29 to 2026-08-11	Gamma; Lognormal; Normal	Normal	2.36	2.55	0.770	3.40	0.749	0.318	-0.505
11_2_4_117	MW-01R	Appendix IV	Mercury	ng/L	20	16	80%	2022-11-29 to 2026-08-11		Nonparametric	113	160	0.160	160	74.4	0.661	-0.946
11_2_4_118	MW-01R	Appendix IV	Molybdenum	mg/L	20	2	10%	2022-11-29 to 2026-08-11	Nonparametric	Nonparametric	0.00141	0.000750	0.000250	0.00580	0.00163	1.16	2.10
11_2_4_121	MW-01R	Appendix IV	Radium 226 and 228	pCi/L	20	13	65%	2022-11-29 to 2026-08-11	Gamma; Lognormal; Normal	Nonparametric	0.927	0.935	0.601	1.28	0.207	0.224	0.156
11_2_4_122	MW-01R	Appendix IV	Selenium	mg/L	20	0	0%	2022-11-29 to 2026-08-11	Nonparametric	Nonparametric	0.000815	0.000705	0.000300	0.00260	0.000513	0.629	2.76
11_2_4_125	MW-01R	Appendix IV	Thallium	mg/L	20	20	100%	2022-11-29 to 2026-08-11		Nonparametric	0.000212	0.0000750	0.0000750	0.000380	0.000156	0.733	0.218
11_2_5_111	MW-01R	Part 115	Copper	mg/L	20	6	30%	2022-11-29 to 2026-08-11	Nonparametric	Nonparametric	0.000558	0.000295	0.000200	0.00280	0.000639	1.15	2.68
11_2_5_114	MW-01R	Part 115	Iron	mg/L	20	0	0%	2022-11-29 to 2026-08-11	Gamma; Normal	Gamma	0.533	0.525	0.0590	1.40	0.409	0.768	0.520
11_2_5_119	MW-01R	Part 115	Nickel	mg/L	20	0	0%	2022-11-29 to 2026-08-11	Nonparametric	Nonparametric	0.00733	0.00220	0.00120	0.0680	0.0153	2.09	3.66
11_2_5_123	MW-01R	Part 115	Silver	mg/L	20	20	100%	2022-11-29 to 2026-08-11		Nonparametric	0.0000900	0.0000500	0.0000500	0.000250	0.0000821	0.912	1.62
11_2_5_128	MW-01R	Part 115	Vanadium	mg/L	20	2	10%	2022-11-29 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.00226	0.00195	0.000620	0.00470	0.00132	0.586	0.561
11_2_5_129	MW-01R	Part 115	Zinc	mg/L	20	3	15%	2022-11-29 to 2026-08-11	Gamma; Lognormal	Gamma	0.0169	0.00250	0.00120	0.140	0.0321	1.89	3.31
12_2_3_105	MW-02	Appendix III	Boron	mg/L	20	0	0%	2022-11-28 to 2026-08-12	Lognormal	Lognormal	108	100	59.0	190	33.4	0.309	1.25
12_2_3_107	MW-02	Appendix III	Calcium	mg/L	20	0	0%	2022-11-28 to 2026-08-12	Gamma; Lognormal; Normal	Normal	195	195	140	240	21.9	0.112	-0.452
12_2_3_108	MW-02	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	2022-11-28 to 2026-08-12	Nonparametric	Nonparametric	141	145	67.0	160	19.8	0.140	-2.98
12_2_3_112	MW-02	Appendix III	Fluoride	mg/L	20	0	0%	2022-11-28 to 2026-08-12	Nonparametric	Nonparametric	10.4	10.0	4.50	16.0	2.49	0.239	0.316
12_2_3_120	MW-02	Appendix III	pH (field)	su	20	0	0%	2022-11-28 to 2026-08-12	Gamma; Lognormal; Normal	Normal	7.20	7.17	7.06	7.45	0.0993	0.0138	0.903
12_2_3_124	MW-02	Appendix III	Sulfate (as SO4)	mg/L	20	10	50%	2022-11-28 to 2026-08-12	Nonparametric	Nonparametric	4.12	1.45	0.410	51.0	11.1	2.70	4.35
12_2_3_126	MW-02	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	2022-11-28 to 2026-08-12	Gamma; Lognormal; Normal	Normal	1945	1900	1600	2600	267	0.137	1.05
12_2_4_101	MW-02	Appendix IV	Antimony	mg/L	20	3	15%	2022-11-28 to 2026-08-12	Gamma; Lognormal	Gamma	0.000241	0.000205	0.000100	0.000630	0.000137	0.567	1.67
12_2_4_102	MW-02	Appendix IV	Arsenic	mg/L	20	0	0%	2022-11-28 to 2026-08-12	Normal	Normal	0.00731	0.00755	0.000440	0.0120	0.00242	0.331	-0.873
12_2_4_103	MW-02	Appendix IV	Barium	mg/L	20	0	0%	2022-11-28 to 2026-08-12	Gamma; Lognormal; Normal	Normal	0.473	0.475	0.320	0.730	0.0909	0.192	0.659
12_2_4_104	MW-02	Appendix IV	Beryllium	mg/L	20	2	10%	2022-11-28 to 2026-08-12	Gamma; Lognormal; Normal	Normal	0.000256	0.000270	0.0000520	0.000520	0.000118	0.460	0.410
12_2_4_106	MW-02	Appendix IV	Cadmium	mg/L	20	14	70%	2022-11-28 to 2026-08-12	Lognormal	Nonparametric	0.000115	0.0000750	0.0000320	0.000490	0.000115	0.996	2.66
12_2_4_109	MW-02	Appendix IV	Chromium, Total	mg/L	20	0	0%	2022-11-28 to 2026-08-12	Gamma; Normal	Gamma	0.0408	0.0420	0.000380	0.0680	0.0193	0.473	-0.262
12_2_4_110	MW-02	Appendix IV	Cobalt	mg/L	20	0	0%	2022-11-28 to 2026-08-12	Gamma; Normal	Normal	0.00625	0.00620	0.000240	0.0120	0.00276	0.442	-0.0228

(Table continues on next page)

[a] Non-detects are excluded from goodness-of-fit tests.

Table 1: Summary Statistics, Non-Detects Included *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit[a]	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness
12_2_4_113	MW-02	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	2022-11-28 to 2026-08-12	Nonparametric	Nonparametric	10.4	10.0	4.50	16.0	2.49	0.239	0.316
12_2_4_115	MW-02	Appendix IV	Lead	mg/L	20	1	5%	2022-11-28 to 2026-08-12	Gamma; Lognormal; Normal	Normal	0.00265	0.00230	0.000100	0.00600	0.00176	0.665	0.504
12_2_4_116	MW-02	Appendix IV	Lithium	mg/L	20	0	0%	2022-11-28 to 2026-08-12	Gamma; Lognormal	Gamma	1.48	1.45	0.870	2.50	0.400	0.270	1.18
12_2_4_117	MW-02	Appendix IV	Mercury	ng/L	20	14	70%	2022-11-28 to 2026-08-12	Gamma; Lognormal; Normal	Nonparametric	113	160	1.10	160	74.1	0.657	-0.946
12_2_4_118	MW-02	Appendix IV	Molybdenum	mg/L	20	0	0%	2022-11-28 to 2026-08-12	Gamma; Lognormal	Gamma	0.00818	0.00620	0.000910	0.0290	0.00602	0.736	2.40
12_2_4_121	MW-02	Appendix IV	Radium 226 and 228	pCi/L	19	6	32%	2022-11-28 to 2026-08-12	Gamma; Lognormal; Normal	Normal	1.59	1.25	0.686	3.35	0.781	0.490	0.830
12_2_4_122	MW-02	Appendix IV	Selenium	mg/L	20	0	0%	2022-11-28 to 2026-08-12	Gamma; Lognormal; Normal	Normal	0.00129	0.00120	0.000500	0.00230	0.000487	0.376	0.433
12_2_4_125	MW-02	Appendix IV	Thallium	mg/L	20	19	95%	2022-11-28 to 2026-08-12		Nonparametric	0.000209	0.0000750	0.0000750	0.000620	0.000176	0.842	0.809
12_2_5_111	MW-02	Part 115	Copper	mg/L	20	0	0%	2022-11-28 to 2026-08-12	Gamma; Lognormal; Normal	Normal	0.00208	0.00190	0.000230	0.00470	0.00116	0.561	0.855
12_2_5_114	MW-02	Part 115	Iron	mg/L	20	0	0%	2022-11-28 to 2026-08-12	Gamma; Lognormal; Normal	Normal	23.7	23.5	18.0	31.0	3.83	0.161	0.306
12_2_5_119	MW-02	Part 115	Nickel	mg/L	20	0	0%	2022-11-28 to 2026-08-12	Nonparametric	Nonparametric	0.0267	0.0225	0.000930	0.0740	0.0163	0.608	1.44
12_2_5_123	MW-02	Part 115	Silver	mg/L	20	20	100%	2022-11-28 to 2026-08-12		Nonparametric	0.0000800	0.0000500	0.0000500	0.000250	0.0000733	0.916	2.12
12_2_5_128	MW-02	Part 115	Vanadium	mg/L	20	1	5%	2022-11-28 to 2026-08-12	Gamma; Lognormal; Normal	Normal	0.00381	0.00355	0.000620	0.00690	0.00190	0.498	-0.0268
12_2_5_129	MW-02	Part 115	Zinc	mg/L	20	0	0%	2022-11-28 to 2026-08-12	Nonparametric	Nonparametric	0.0113	0.00345	0.00160	0.0440	0.0137	1.21	1.33
13_2_3_105	MW-03	Appendix III	Boron	mg/L	20	0	0%	2022-11-28 to 2026-08-13	Gamma; Lognormal; Normal	Normal	4.03	4.10	3.30	4.50	0.351	0.0871	-0.529
13_2_3_107	MW-03	Appendix III	Calcium	mg/L	20	0	0%	2022-11-28 to 2026-08-13	Gamma; Lognormal; Normal	Normal	354	350	290	430	38.0	0.107	0.244
13_2_3_108	MW-03	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	2022-11-28 to 2026-08-13	Gamma; Lognormal; Normal	Normal	146	135	72.0	300	55.1	0.379	1.32
13_2_3_112	MW-03	Appendix III	Fluoride	mg/L	20	0	0%	2022-11-28 to 2026-08-13	Nonparametric	Nonparametric	0.706	0.620	0.520	1.60	0.233	0.330	3.23
13_2_3_120	MW-03	Appendix III	pH (field)	su	20	0	0%	2022-11-28 to 2026-08-13	Gamma; Lognormal; Normal	Normal	7.36	7.33	7.20	7.59	0.0899	0.0122	0.758
13_2_3_124	MW-03	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	2022-11-28 to 2026-08-13	Gamma; Lognormal; Normal	Gamma	299	275	29.0	760	222	0.742	0.549
13_2_3_126	MW-03	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	2022-11-28 to 2026-08-13	Nonparametric	Nonparametric	1965	1900	1600	2300	278	0.141	0.141
13_2_4_101	MW-03	Appendix IV	Antimony	mg/L	20	14	70%	2022-11-28 to 2026-08-13	Gamma; Lognormal	Nonparametric	0.000189	0.000100	0.0000870	0.000500	0.000158	0.834	1.47
13_2_4_102	MW-03	Appendix IV	Arsenic	mg/L	20	0	0%	2022-11-28 to 2026-08-13	Gamma; Lognormal; Normal	Normal	0.000893	0.000890	0.000490	0.00140	0.000267	0.299	0.124
13_2_4_103	MW-03	Appendix IV	Barium	mg/L	20	0	0%	2022-11-28 to 2026-08-13	Gamma; Normal	Normal	0.353	0.365	0.130	0.500	0.0781	0.221	-0.983
13_2_4_104	MW-03	Appendix IV	Beryllium	mg/L	20	13	65%	2022-11-28 to 2026-08-13	Lognormal	Nonparametric	0.0000810	0.0000525	0.0000520	0.000260	0.0000552	0.682	2.34
13_2_4_106	MW-03	Appendix IV	Cadmium	mg/L	20	19	95%	2022-11-28 to 2026-08-13		Nonparametric	0.000109	0.0000750	0.0000320	0.000380	0.0000983	0.900	2.34
13_2_4_109	MW-03	Appendix IV	Chromium, Total	mg/L	20	0	0%	2022-11-28 to 2026-08-13	Gamma; Lognormal; Normal	Normal	0.00432	0.00385	0.00280	0.00730	0.00121	0.279	0.898
13_2_4_110	MW-03	Appendix IV	Cobalt	mg/L	20	0	0%	2022-11-28 to 2026-08-13	Gamma; Lognormal; Normal	Normal	0.000746	0.000655	0.000370	0.00130	0.000294	0.394	0.736
13_2_4_113	MW-03	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	2022-11-28 to 2026-08-13	Nonparametric	Nonparametric	0.706	0.620	0.520	1.60	0.233	0.330	3.23
13_2_4_115	MW-03	Appendix IV	Lead	mg/L	20	19	95%	2022-11-28 to 2026-08-13		Nonparametric	0.000388	0.000220	0.000100	0.00110	0.000351	0.905	1.20
13_2_4_116	MW-03	Appendix IV	Lithium	mg/L	20	0	0%	2022-11-28 to 2026-08-13	Gamma; Lognormal	Gamma	0.0364	0.0340	0.0260	0.0650	0.00915	0.251	1.83
13_2_4_117	MW-03	Appendix IV	Mercury	ng/L	20	15	75%	2022-11-28 to 2026-08-13	Nonparametric	Nonparametric	116	160	0.160	240	79.7	0.686	-0.727
13_2_4_118	MW-03	Appendix IV	Molybdenum	mg/L	20	14	70%	2022-11-28 to 2026-08-13	Gamma; Lognormal; Normal	Nonparametric	0.000757	0.000355	0.000250	0.00310	0.000865	1.14	2.24
13_2_4_121	MW-03	Appendix IV	Radium 226 and 228	pCi/L	19	3	16%	2022-11-28 to 2026-08-13	Gamma; Lognormal; Normal	Normal	1.07	0.959	0.540	1.92	0.372	0.348	0.803
13_2_4_122	MW-03	Appendix IV	Selenium	mg/L	20	3	15%	2022-11-28 to 2026-08-13	Gamma; Lognormal; Normal	Normal	0.000415	0.000390	0.000170	0.00110	0.000194	0.469	2.38
13_2_4_125	MW-03	Appendix IV	Thallium	mg/L	20	19	95%	2022-11-28 to 2026-08-13		Nonparametric	0.000218	0.000128	0.0000750	0.000380	0.000153	0.701	0.159
13_2_5_111	MW-03	Part 115	Copper	mg/L	20	9	45%	2022-11-28 to 2026-08-13	Lognormal	Lognormal	0.000396	0.000245	0.000200	0.00100	0.000296	0.747	1.37
13_2_5_114	MW-03	Part 115	Iron	mg/L	20	0	0%	2022-11-28 to 2026-08-13	Gamma; Lognormal	Gamma	1.19	0.705	0.0980	5.90	1.45	1.21	2.21
13_2_5_119	MW-03	Part 115	Nickel	mg/L	20	1	5%	2022-11-28 to 2026-08-13	Nonparametric	Nonparametric	0.00213	0.00135	0.000850	0.0150	0.00307	1.44	4.26
13_2_5_123	MW-03	Part 115	Silver	mg/L	20	20	100%	2022-11-28 to 2026-08-13		Nonparametric	0.0000900	0.0000500	0.0000500	0.000250	0.0000821	0.912	1.62
13_2_5_128	MW-03	Part 115	Vanadium	mg/L	20	9	45%	2022-11-28 to 2026-08-13	Gamma; Lognormal; Normal	Normal	0.00120	0.00120	0.000620	0.00310	0.000655	0.545	1.38
13_2_5_129	MW-03	Part 115	Zinc	mg/L	20	9	45%	2022-11-28 to 2026-08-13	Normal	Nonparametric	0.00806	0.00160	0.000590	0.0250	0.00937	1.16	0.856

(Table continues on next page)

[a] Non-detects are excluded from goodness-of-fit tests.

Table 1: Summary Statistics, Non-Detects Included *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit[a]	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness
14_2_3_105	MW-04	Appendix III	Boron	mg/L	20	0	0%	2022-11-28 to 2026-08-13	Nonparametric	Nonparametric	3.62	3.95	0.680	4.70	1.00	0.276	-1.76
14_2_3_107	MW-04	Appendix III	Calcium	mg/L	20	0	0%	2022-11-28 to 2026-08-13	Gamma; Lognormal; Normal	Normal	362	355	250	560	61.6	0.170	1.57
14_2_3_108	MW-04	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	2022-11-28 to 2026-08-13	Gamma; Normal	Normal	130	125	11.0	300	79.4	0.609	0.188
14_2_3_112	MW-04	Appendix III	Fluoride	mg/L	20	0	0%	2022-11-28 to 2026-08-13	Gamma; Lognormal; Normal	Normal	1.45	1.40	0.760	2.30	0.344	0.236	0.797
14_2_3_120	MW-04	Appendix III	pH (field)	su	20	0	0%	2022-11-28 to 2026-08-13	Normal	Normal	7.29	7.34	6.78	7.66	0.184	0.0252	-0.994
14_2_3_124	MW-04	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	2022-11-28 to 2026-08-13	Normal	Normal	598	610	1.80	1100	216	0.361	-0.496
14_2_3_126	MW-04	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	2022-11-28 to 2026-08-13	Normal	Normal	1800	1800	1100	2200	308	0.171	-0.890
14_2_4_101	MW-04	Appendix IV	Antimony	mg/L	20	14	70%	2022-11-28 to 2026-08-13	Gamma; Lognormal; Normal	Nonparametric	0.000214	0.000100	0.0000500	0.000500	0.000175	0.819	0.847
14_2_4_102	MW-04	Appendix IV	Arsenic	mg/L	20	0	0%	2022-11-28 to 2026-08-13	Nonparametric	Nonparametric	0.00130	0.000980	0.000470	0.00590	0.00118	0.907	3.49
14_2_4_103	MW-04	Appendix IV	Barium	mg/L	20	0	0%	2022-11-28 to 2026-08-13	Nonparametric	Nonparametric	0.130	0.120	0.0250	0.460	0.0828	0.638	3.56
14_2_4_104	MW-04	Appendix IV	Beryllium	mg/L	20	17	85%	2022-11-28 to 2026-08-13		Nonparametric	0.0000596	0.0000520	0.0000520	0.000100	0.0000167	0.280	2.02
14_2_4_106	MW-04	Appendix IV	Cadmium	mg/L	20	20	100%	2022-11-28 to 2026-08-13		Nonparametric	0.000108	0.0000750	0.0000320	0.000380	0.0000986	0.917	2.38
14_2_4_109	MW-04	Appendix IV	Chromium, Total	mg/L	20	0	0%	2022-11-28 to 2026-08-13	Gamma; Lognormal; Normal	Normal	0.00332	0.00295	0.000740	0.00600	0.00145	0.437	-0.0151
14_2_4_110	MW-04	Appendix IV	Cobalt	mg/L	20	0	0%	2022-11-28 to 2026-08-13	Lognormal	Lognormal	0.000589	0.000355	0.000110	0.00250	0.000582	0.990	2.49
14_2_4_113	MW-04	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	2022-11-28 to 2026-08-13	Gamma; Lognormal; Normal	Normal	1.45	1.40	0.760	2.30	0.344	0.236	0.797
14_2_4_115	MW-04	Appendix IV	Lead	mg/L	20	16	80%	2022-11-28 to 2026-08-13		Nonparametric	0.000367	0.000240	0.000100	0.00110	0.000300	0.820	1.46
14_2_4_116	MW-04	Appendix IV	Lithium	mg/L	20	0	0%	2022-11-28 to 2026-08-13	Gamma; Lognormal; Normal	Normal	0.0575	0.0605	0.0310	0.0740	0.0134	0.234	-0.546
14_2_4_117	MW-04	Appendix IV	Mercury	ng/L	20	16	80%	2022-11-28 to 2026-08-13		Nonparametric	112	160	0.160	160	74.9	0.667	-0.945
14_2_4_118	MW-04	Appendix IV	Molybdenum	mg/L	20	2	10%	2022-11-28 to 2026-08-13	Nonparametric	Nonparametric	0.00277	0.00125	0.000370	0.0130	0.00379	1.37	2.05
14_2_4_121	MW-04	Appendix IV	Radium 226 and 228	pCi/L	20	7	35%	2022-11-28 to 2026-08-13	Gamma; Lognormal; Normal	Normal	0.959	0.810	0.560	1.55	0.333	0.347	0.473
14_2_4_122	MW-04	Appendix IV	Selenium	mg/L	20	5	25%	2022-11-28 to 2026-08-13	Lognormal	Lognormal	0.000278	0.000220	0.000100	0.00120	0.000233	0.837	3.57
14_2_4_125	MW-04	Appendix IV	Thallium	mg/L	20	20	100%	2022-11-28 to 2026-08-13		Nonparametric	0.000197	0.0000750	0.0000750	0.000380	0.000153	0.778	0.442
14_2_5_111	MW-04	Part 115	Copper	mg/L	20	14	70%	2022-11-28 to 2026-08-13	Gamma; Lognormal; Normal	Nonparametric	0.000327	0.000200	0.000200	0.00110	0.000279	0.853	2.20
14_2_5_114	MW-04	Part 115	Iron	mg/L	20	0	0%	2022-11-28 to 2026-08-13	Nonparametric	Nonparametric	5.07	5.55	0.190	6.80	1.83	0.361	-1.76
14_2_5_119	MW-04	Part 115	Nickel	mg/L	20	0	0%	2022-11-28 to 2026-08-13	Gamma; Normal	Normal	0.0127	0.0130	0.00190	0.0220	0.00570	0.449	-0.372
14_2_5_123	MW-04	Part 115	Silver	mg/L	20	20	100%	2022-11-28 to 2026-08-13		Nonparametric	0.0000900	0.0000500	0.0000500	0.000250	0.0000821	0.912	1.62
14_2_5_128	MW-04	Part 115	Vanadium	mg/L	20	10	50%	2022-11-28 to 2026-08-13	Gamma; Lognormal; Normal	Nonparametric	0.000726	0.000620	0.000490	0.00120	0.000204	0.281	1.33
14_2_5_129	MW-04	Part 115	Zinc	mg/L	20	10	50%	2022-11-28 to 2026-08-13	Gamma; Lognormal; Normal	Nonparametric	0.00375	0.00135	0.00120	0.0130	0.00403	1.08	1.59
16_1_3_105	MW-06	Appendix III	Boron	mg/L	20	0	0%	2022-11-29 to 2026-08-12	Gamma; Lognormal; Normal	Normal	9.44	9.70	6.40	12.0	1.59	0.168	-0.262
16_1_3_107	MW-06	Appendix III	Calcium	mg/L	20	0	0%	2022-11-29 to 2026-08-12	Gamma; Lognormal; Normal	Normal	240	230	190	310	36	0.150	0.693
16_1_3_108	MW-06	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	2022-11-29 to 2026-08-12	Gamma; Lognormal; Normal	Normal	62.8	58.0	13.0	160	37.5	0.597	0.903
16_1_3_112	MW-06	Appendix III	Fluoride	mg/L	20	0	0%	2022-11-29 to 2026-08-12	Gamma; Lognormal; Normal	Normal	1.25	1.20	0.980	1.70	0.213	0.171	0.565
16_1_3_120	MW-06	Appendix III	pH (field)	su	20	0	0%	2022-11-29 to 2026-08-12	Nonparametric	Nonparametric	7.27	7.29	6.42	7.51	0.223	0.0307	-3.09
16_1_3_124	MW-06	Appendix III	Sulfate (as SO4)	mg/L	20	2	10%	2022-11-29 to 2026-08-12	Gamma; Lognormal	Gamma	18.7	9.50	0.410	100	27.9	1.49	2.51
16_1_3_126	MW-06	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	2022-11-29 to 2026-08-12	Nonparametric	Nonparametric	1184	1200	980	1300	77.2	0.0652	-0.779
16_1_4_101	MW-06	Appendix IV	Antimony	mg/L	20	17	85%	2022-11-29 to 2026-08-12		Nonparametric	0.000163	0.000100	0.0000500	0.000500	0.000139	0.853	1.75
16_1_4_102	MW-06	Appendix IV	Arsenic	mg/L	20	0	0%	2022-11-29 to 2026-08-12	Gamma; Lognormal; Normal	Normal	0.000674	0.000635	0.000370	0.00100	0.000182	0.270	0.498
16_1_4_103	MW-06	Appendix IV	Barium	mg/L	20	0	0%	2022-11-29 to 2026-08-12	Nonparametric	Nonparametric	1.39	1.40	0.870	1.70	0.190	0.137	-1.35
16_1_4_104	MW-06	Appendix IV	Beryllium	mg/L	20	17	85%	2022-11-29 to 2026-08-12		Nonparametric	0.0000666	0.0000520	0.0000520	0.000290	0.0000536	0.805	4.21
16_1_4_106	MW-06	Appendix IV	Cadmium	mg/L	20	20	100%	2022-11-29 to 2026-08-12		Nonparametric	0.000108	0.0000750	0.0000320	0.000380	0.0000986	0.917	2.38
16_1_4_109	MW-06	Appendix IV	Chromium, Total	mg/L	20	0	0%	2022-11-29 to 2026-08-12	Gamma; Lognormal	Gamma	0.00152	0.00140	0.000950	0.00300	0.000524	0.344	1.44
16_1_4_110	MW-06	Appendix IV	Cobalt	mg/L	20	0	0%	2022-11-29 to 2026-08-12	Nonparametric	Nonparametric	0.000629	0.000455	0.000300	0.00340	0.000667	1.06	4.16

(Table continues on next page)

[a] Non-detects are excluded from goodness-of-fit tests.

Table 1: Summary Statistics, Non-Detects Included *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit[a]	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness
16_1_4_113	MW-06	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	2022-11-29 to 2026-08-12	Gamma; Lognormal; Normal	Normal	1.25	1.20	0.980	1.70	0.213	0.171	0.565
16_1_4_115	MW-06	Appendix IV	Lead	mg/L	20	10	50%	2022-11-29 to 2026-08-12	Gamma; Lognormal; Normal	Nonparametric	0.000309	0.000215	0.000100	0.00110	0.000298	0.965	2.08
16_1_4_116	MW-06	Appendix IV	Lithium	mg/L	20	0	0%	2022-11-29 to 2026-08-12	Gamma; Lognormal; Normal	Normal	0.172	0.170	0.110	0.230	0.0364	0.211	0.121
16_1_4_117	MW-06	Appendix IV	Mercury	ng/L	20	15	75%	2022-11-29 to 2026-08-12	Gamma; Lognormal; Normal	Nonparametric	112	160	0.160	160	74.9	0.668	-0.945
16_1_4_118	MW-06	Appendix IV	Molybdenum	mg/L	20	10	50%	2022-11-29 to 2026-08-12	Nonparametric	Nonparametric	0.000750	0.000290	0.000250	0.00510	0.00120	1.60	3.17
16_1_4_121	MW-06	Appendix IV	Radium 226 and 228	pCi/L	20	4	20%	2022-11-29 to 2026-08-12	Gamma; Lognormal	Gamma	0.871	0.811	0.460	1.91	0.340	0.390	1.83
16_1_4_122	MW-06	Appendix IV	Selenium	mg/L	20	5	25%	2022-11-29 to 2026-08-12	Nonparametric	Nonparametric	0.000235	0.000220	0.000160	0.000470	0.0000743	0.316	2.36
16_1_4_125	MW-06	Appendix IV	Thallium	mg/L	20	19	95%	2022-11-29 to 2026-08-12		Nonparametric	0.000141	0.0000750	0.0000750	0.000380	0.000125	0.884	1.53
16_1_5_111	MW-06	Part 115	Copper	mg/L	20	13	65%	2022-11-29 to 2026-08-12	Nonparametric	Nonparametric	0.000394	0.000200	0.000200	0.00330	0.000688	1.75	4.40
16_1_5_114	MW-06	Part 115	Iron	mg/L	20	0	0%	2022-11-29 to 2026-08-12	Gamma; Normal	Normal	15.1	15.5	1.90	31.0	7.35	0.485	0.265
16_1_5_119	MW-06	Part 115	Nickel	mg/L	20	6	30%	2022-11-29 to 2026-08-12	Nonparametric	Nonparametric	0.000994	0.000865	0.000630	0.00380	0.000686	0.690	3.94
16_1_5_123	MW-06	Part 115	Silver	mg/L	20	19	95%	2022-11-29 to 2026-08-12		Nonparametric	0.0000956	0.0000500	0.0000500	0.000250	0.0000829	0.868	1.39
16_1_5_128	MW-06	Part 115	Vanadium	mg/L	20	14	70%	2022-11-29 to 2026-08-12	Nonparametric	Nonparametric	0.000770	0.000620	0.000460	0.00390	0.000739	0.960	4.43
16_1_5_129	MW-06	Part 115	Zinc	mg/L	20	2	10%	2022-11-29 to 2026-08-12	Nonparametric	Nonparametric	0.0266	0.00180	0.00120	0.0940	0.0360	1.36	0.860
17_1_3_105	MW-07	Appendix III	Boron	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Nonparametric	Nonparametric	10.8	11.0	6.90	13.0	1.59	0.147	-1.05
17_1_3_107	MW-07	Appendix III	Calcium	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Lognormal; Normal	Normal	148	150	120	170	12.4	0.0838	-0.501
17_1_3_108	MW-07	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Nonparametric	Nonparametric	14.8	14.5	13.0	17.0	1.32	0.0893	0.407
17_1_3_112	MW-07	Appendix III	Fluoride	mg/L	20	4	20%	2022-11-30 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.118	0.115	0.0550	0.220	0.0442	0.376	0.484
17_1_3_120	MW-07	Appendix III	pH (field)	su	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Lognormal; Normal	Normal	6.88	6.88	6.58	7.05	0.113	0.0165	-1.06
17_1_3_124	MW-07	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Lognormal; Normal	Normal	26.1	27.0	15.0	48.0	9.35	0.359	0.518
17_1_3_126	MW-07	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Lognormal; Normal	Normal	668	680	470	750	74.9	0.112	-1.51
17_1_4_101	MW-07	Appendix IV	Antimony	mg/L	20	19	95%	2022-11-30 to 2026-08-11		Nonparametric	0.0000885	0.000100	0.0000500	0.000100	0.0000208	0.235	-1.38
17_1_4_102	MW-07	Appendix IV	Arsenic	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.000198	0.000200	0.000100	0.000290	0.0000422	0.213	-0.378
17_1_4_103	MW-07	Appendix IV	Barium	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.358	0.355	0.250	0.430	0.0419	0.117	-0.446
17_1_4_104	MW-07	Appendix IV	Beryllium	mg/L	20	15	75%	2022-11-30 to 2026-08-11	Lognormal	Nonparametric	0.0000617	0.0000520	0.0000520	0.000120	0.0000201	0.326	2.15
17_1_4_106	MW-07	Appendix IV	Cadmium	mg/L	20	20	100%	2022-11-30 to 2026-08-11		Nonparametric	0.0000643	0.0000750	0.0000320	0.0000750	0.0000191	0.297	-1.25
17_1_4_109	MW-07	Appendix IV	Chromium, Total	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Lognormal	Gamma	0.000358	0.000335	0.000250	0.000740	0.000104	0.289	2.79
17_1_4_110	MW-07	Appendix IV	Cobalt	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.000961	0.000975	0.000710	0.00130	0.000144	0.150	0.443
17_1_4_113	MW-07	Appendix IV	Fluoride (App IV)	mg/L	20	4	20%	2022-11-30 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.118	0.115	0.0550	0.220	0.0442	0.376	0.484
17_1_4_115	MW-07	Appendix IV	Lead	mg/L	20	20	100%	2022-11-30 to 2026-08-11		Nonparametric	0.000130	0.000100	0.000100	0.000220	0.0000533	0.410	1.25
17_1_4_116	MW-07	Appendix IV	Lithium	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.00636	0.00595	0.00310	0.0100	0.00164	0.258	0.418
17_1_4_117	MW-07	Appendix IV	Mercury	ng/L	20	19	95%	2022-11-30 to 2026-08-11		Nonparametric	112	160	0.160	160	75.1	0.671	-0.945
17_1_4_118	MW-07	Appendix IV	Molybdenum	mg/L	20	20	100%	2022-11-30 to 2026-08-11		Nonparametric	0.000349	0.000250	0.000250	0.000620	0.000162	0.462	1.19
17_1_4_121	MW-07	Appendix IV	Radium 226 and 228	pCi/L	20	2	10%	2022-11-30 to 2026-08-11	Gamma; Lognormal	Gamma	0.952	0.885	0.515	2.36	0.388	0.407	2.63
17_1_4_122	MW-07	Appendix IV	Selenium	mg/L	20	9	45%	2022-11-30 to 2026-08-11	Nonparametric	Nonparametric	0.000147	0.000120	0.000100	0.000230	0.0000530	0.362	0.700
17_1_4_125	MW-07	Appendix IV	Thallium	mg/L	20	20	100%	2022-11-30 to 2026-08-11		Nonparametric	0.0000750	0.0000750	0.0000750	0.0000750	0	0	NA
17_1_5_111	MW-07	Part 115	Copper	mg/L	20	15	75%	2022-11-30 to 2026-08-11	Nonparametric	Nonparametric	0.000229	0.000200	0.000200	0.000620	0.0000941	0.410	4.16
17_1_5_114	MW-07	Part 115	Iron	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Lognormal; Normal	Normal	17.0	17.0	13.0	22.0	2.70	0.159	0.233
17_1_5_119	MW-07	Part 115	Nickel	mg/L	20	14	70%	2022-11-30 to 2026-08-11	Nonparametric	Nonparametric	0.000541	0.000650	0.000160	0.000710	0.000202	0.373	-1.26
17_1_5_123	MW-07	Part 115	Silver	mg/L	20	20	100%	2022-11-30 to 2026-08-11		Nonparametric	0.0000500	0.0000500	0.0000500	0.0000500	0	0	NA
17_1_5_128	MW-07	Part 115	Vanadium	mg/L	20	12	60%	2022-11-30 to 2026-08-11	Gamma; Lognormal; Normal	Nonparametric	0.000678	0.000620	0.000590	0.000950	0.000104	0.154	1.41
17_1_5_129	MW-07	Part 115	Zinc	mg/L	20	10	50%	2022-11-30 to 2026-08-11	Gamma; Lognormal; Normal	Nonparametric	0.00816	0.00120	0.000750	0.0330	0.0107	1.31	1.25

(Table continues on next page)

[a] Non-detects are excluded from goodness-of-fit tests.

Table 1: Summary Statistics, Non-Detects Included *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit[a]	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness
18_1_3_105	MW-08	Appendix III	Boron	mg/L	20	0	0%	2022-12-01 to 2026-08-12	Gamma; Lognormal; Normal	Normal	6.09	6.55	2.50	9.30	1.77	0.291	-0.287
18_1_3_107	MW-08	Appendix III	Calcium	mg/L	20	0	0%	2022-12-01 to 2026-08-12	Gamma; Lognormal; Normal	Normal	133	130	85.0	160	19.4	0.146	-0.805
18_1_3_108	MW-08	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	2022-12-01 to 2026-08-12	Nonparametric	Nonparametric	44.2	30.0	17.0	160	37.7	0.853	2.10
18_1_3_112	MW-08	Appendix III	Fluoride	mg/L	20	0	0%	2022-12-01 to 2026-08-12	Normal	Normal	0.976	1.00	0.400	1.40	0.267	0.273	-0.688
18_1_3_120	MW-08	Appendix III	pH (field)	su	20	0	0%	2022-12-01 to 2026-08-12	Nonparametric	Nonparametric	7.19	7.25	6.21	7.57	0.275	0.0382	-2.43
18_1_3_124	MW-08	Appendix III	Sulfate (as SO4)	mg/L	20	5	25%	2022-12-01 to 2026-08-12	Gamma; Lognormal; Normal	Gamma	15.2	6.30	0.410	65.0	18.2	1.20	1.43
18_1_3_126	MW-08	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	2022-12-01 to 2026-08-12	Gamma; Lognormal; Normal	Normal	556	550	320	780	112	0.202	0.212
18_1_4_101	MW-08	Appendix IV	Antimony	mg/L	20	12	60%	2022-12-01 to 2026-08-12	Gamma; Lognormal; Normal	Nonparametric	0.000118	0.000100	0.0000540	0.000280	0.0000487	0.411	2.30
18_1_4_102	MW-08	Appendix IV	Arsenic	mg/L	20	0	0%	2022-12-01 to 2026-08-12	Gamma; Normal	Normal	0.0416	0.0445	0.00690	0.0910	0.0185	0.444	0.449
18_1_4_103	MW-08	Appendix IV	Barium	mg/L	20	0	0%	2022-12-01 to 2026-08-12	Gamma; Lognormal; Normal	Normal	1.20	1.25	0.580	1.50	0.254	0.211	-0.934
18_1_4_104	MW-08	Appendix IV	Beryllium	mg/L	20	19	95%	2022-12-01 to 2026-08-12		Nonparametric	0.0000602	0.0000520	0.0000520	0.000120	0.0000204	0.338	2.29
18_1_4_106	MW-08	Appendix IV	Cadmium	mg/L	20	19	95%	2022-12-01 to 2026-08-12		Nonparametric	0.0000660	0.0000750	0.0000320	0.000110	0.0000216	0.327	-0.588
18_1_4_109	MW-08	Appendix IV	Chromium, Total	mg/L	20	0	0%	2022-12-01 to 2026-08-12	Gamma; Lognormal; Normal	Normal	0.000749	0.000685	0.000420	0.00150	0.000268	0.358	1.23
18_1_4_110	MW-08	Appendix IV	Cobalt	mg/L	20	0	0%	2022-12-01 to 2026-08-12	Gamma; Lognormal; Normal	Normal	0.000482	0.000410	0.000220	0.000980	0.000193	0.401	0.923
18_1_4_113	MW-08	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	2022-12-01 to 2026-08-12	Normal	Normal	0.976	1.00	0.400	1.40	0.267	0.273	-0.688
18_1_4_115	MW-08	Appendix IV	Lead	mg/L	20	12	60%	2022-12-01 to 2026-08-12	Gamma; Lognormal	Nonparametric	0.000340	0.000105	0.000100	0.00290	0.000632	1.86	3.88
18_1_4_116	MW-08	Appendix IV	Lithium	mg/L	20	0	0%	2022-12-01 to 2026-08-12	Gamma; Lognormal; Normal	Normal	0.0962	0.0925	0.0630	0.140	0.0242	0.252	0.429
18_1_4_117	MW-08	Appendix IV	Mercury	ng/L	20	18	90%	2022-12-01 to 2026-08-12		Nonparametric	112	160	0.160	160	75.0	0.669	-0.945
18_1_4_118	MW-08	Appendix IV	Molybdenum	mg/L	20	2	10%	2022-12-01 to 2026-08-12	Gamma; Lognormal; Normal	Normal	0.00152	0.00155	0.000250	0.00410	0.00108	0.712	0.668
18_1_4_121	MW-08	Appendix IV	Radium 226 and 228	pCi/L	20	5	25%	2022-12-01 to 2026-08-12	Gamma; Lognormal; Normal	Normal	0.965	0.872	0.375	2.10	0.398	0.412	1.35
18_1_4_122	MW-08	Appendix IV	Selenium	mg/L	20	7	35%	2022-12-01 to 2026-08-12	Gamma; Lognormal	Gamma	0.000171	0.000145	0.000100	0.000340	0.0000678	0.397	1.08
18_1_4_125	MW-08	Appendix IV	Thallium	mg/L	20	19	95%	2022-12-01 to 2026-08-12		Nonparametric	0.0000778	0.0000750	0.0000750	0.000130	0.0000123	0.158	4.47
18_1_5_111	MW-08	Part 115	Copper	mg/L	20	6	30%	2022-12-01 to 2026-08-12	Gamma; Lognormal; Normal	Normal	0.000343	0.000315	0.000200	0.000800	0.000161	0.471	1.46
18_1_5_114	MW-08	Part 115	Iron	mg/L	20	0	0%	2022-12-01 to 2026-08-12	Gamma; Lognormal; Normal	Normal	17.1	18.0	6.60	32.0	7.08	0.415	0.326
18_1_5_119	MW-08	Part 115	Nickel	mg/L	20	0	0%	2022-12-01 to 2026-08-12	Lognormal	Lognormal	0.00274	0.00155	0.000850	0.0130	0.00278	1.01	2.91
18_1_5_123	MW-08	Part 115	Silver	mg/L	20	20	100%	2022-12-01 to 2026-08-12		Nonparametric	0.0000500	0.0000500	0.0000500	0.0000500	0	0	NA
18_1_5_128	MW-08	Part 115	Vanadium	mg/L	20	17	85%	2022-12-01 to 2026-08-12		Nonparametric	0.000551	0.000620	0.000280	0.000910	0.000170	0.308	-0.508
18_1_5_129	MW-08	Part 115	Zinc	mg/L	20	3	15%	2022-12-01 to 2026-08-12	Nonparametric	Nonparametric	0.0344	0.00215	0.00120	0.160	0.0504	1.47	1.30
19_2_3_105	MW-09	Appendix III	Boron	mg/L	20	0	0%	2022-11-28 to 2026-08-10	Nonparametric	Nonparametric	5.38	5.60	2.30	6.90	1.06	0.197	-1.66
19_2_3_107	MW-09	Appendix III	Calcium	mg/L	20	0	0%	2022-11-28 to 2026-08-10	Gamma; Lognormal; Normal	Normal	412	425	230	530	91.8	0.223	-0.485
19_2_3_108	MW-09	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	2022-11-28 to 2026-08-10	Lognormal	Lognormal	33.1	21.5	11.0	94.0	26.5	0.801	1.34
19_2_3_112	MW-09	Appendix III	Fluoride	mg/L	20	0	0%	2022-11-28 to 2026-08-10	Gamma; Lognormal; Normal	Normal	2.45	2.50	1.60	2.90	0.356	0.145	-0.823
19_2_3_120	MW-09	Appendix III	pH (field)	su	20	0	0%	2022-11-28 to 2026-08-10	Gamma; Lognormal; Normal	Normal	7.16	7.18	6.88	7.52	0.154	0.0215	0.157
19_2_3_124	MW-09	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	2022-11-28 to 2026-08-10	Gamma; Normal	Normal	604	620	83.0	1300	329	0.545	0.215
19_2_3_126	MW-09	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	2022-11-28 to 2026-08-10	Gamma; Lognormal; Normal	Normal	1615	1600	740	2500	454	0.281	0.0779
19_2_4_101	MW-09	Appendix IV	Antimony	mg/L	20	12	60%	2022-11-28 to 2026-08-10	Gamma; Lognormal; Normal	Nonparametric	0.000165	0.000100	0.0000500	0.000500	0.000134	0.812	1.90
19_2_4_102	MW-09	Appendix IV	Arsenic	mg/L	20	0	0%	2022-11-28 to 2026-08-10	Normal	Normal	0.00213	0.00230	0.000820	0.00330	0.000630	0.296	-0.314
19_2_4_103	MW-09	Appendix IV	Barium	mg/L	20	0	0%	2022-11-28 to 2026-08-10	Lognormal	Lognormal	0.317	0.200	0.0460	2.40	0.507	1.60	4.02
19_2_4_104	MW-09	Appendix IV	Beryllium	mg/L	20	15	75%	2022-11-28 to 2026-08-10	Gamma; Lognormal; Normal	Nonparametric	0.0000645	0.0000520	0.0000520	0.000150	0.0000255	0.396	2.45
19_2_4_106	MW-09	Appendix IV	Cadmium	mg/L	20	19	95%	2022-11-28 to 2026-08-10		Nonparametric	0.000131	0.0000750	0.0000320	0.000680	0.000163	1.24	2.58
19_2_4_109	MW-09	Appendix IV	Chromium, Total	mg/L	20	0	0%	2022-11-28 to 2026-08-10	Gamma; Lognormal; Normal	Normal	0.00229	0.00230	0.00110	0.00320	0.000560	0.245	-0.203
19_2_4_110	MW-09	Appendix IV	Cobalt	mg/L	20	0	0%	2022-11-28 to 2026-08-10	Nonparametric	Nonparametric	0.000784	0.000495	0.000230	0.00640	0.00134	1.71	4.30

(Table continues on next page)

[a] Non-detects are excluded from goodness-of-fit tests.

Table 1: Summary Statistics, Non-Detects Included *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit[a]	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness
19_2_4_113	MW-09	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	2022-11-28 to 2026-08-10	Gamma; Lognormal; Normal	Normal	2.45	2.50	1.60	2.90	0.356	0.145	-0.823
19_2_4_115	MW-09	Appendix IV	Lead	mg/L	20	17	85%	2022-11-28 to 2026-08-10		Nonparametric	0.000347	0.000220	0.000100	0.00110	0.000306	0.879	1.54
19_2_4_116	MW-09	Appendix IV	Lithium	mg/L	20	0	0%	2022-11-28 to 2026-08-10	Nonparametric	Nonparametric	0.324	0.310	0.260	0.540	0.0656	0.203	2.32
19_2_4_117	MW-09	Appendix IV	Mercury	ng/L	20	14	70%	2022-11-28 to 2026-08-10	Gamma; Lognormal	Nonparametric	321	160	0.160	2400	665	2.07	2.85
19_2_4_118	MW-09	Appendix IV	Molybdenum	mg/L	20	0	0%	2022-11-28 to 2026-08-10	Gamma; Lognormal; Normal	Normal	0.0223	0.0220	0.00970	0.0330	0.00637	0.285	-0.131
19_2_4_121	MW-09	Appendix IV	Radium 226 and 228	pCi/L	20	18	90%	2022-11-28 to 2026-08-10		Nonparametric	0.741	0.757	0.450	1.12	0.164	0.222	0.156
19_2_4_122	MW-09	Appendix IV	Selenium	mg/L	20	2	10%	2022-11-28 to 2026-08-10	Nonparametric	Nonparametric	0.000501	0.000275	0.000120	0.00350	0.000731	1.46	4.02
19_2_4_125	MW-09	Appendix IV	Thallium	mg/L	20	20	100%	2022-11-28 to 2026-08-10		Nonparametric	0.000182	0.0000750	0.0000750	0.000380	0.000149	0.821	0.681
19_2_5_111	MW-09	Part 115	Copper	mg/L	20	11	55%	2022-11-28 to 2026-08-10	Gamma; Lognormal	Nonparametric	0.000615	0.000200	0.000200	0.00380	0.000899	1.46	2.77
19_2_5_114	MW-09	Part 115	Iron	mg/L	20	0	0%	2022-11-28 to 2026-08-10	Gamma; Lognormal; Normal	Normal	19.7	19.5	5.80	26.0	5.15	0.261	-0.966
19_2_5_119	MW-09	Part 115	Nickel	mg/L	20	0	0%	2022-11-28 to 2026-08-10	Lognormal	Nonparametric	0.0113	0.00385	0.000720	0.100	0.0224	1.98	3.61
19_2_5_123	MW-09	Part 115	Silver	mg/L	20	20	100%	2022-11-28 to 2026-08-10		Nonparametric	0.0000800	0.0000500	0.0000500	0.000250	0.0000733	0.916	2.12
19_2_5_128	MW-09	Part 115	Vanadium	mg/L	20	15	75%	2022-11-28 to 2026-08-10	Gamma; Lognormal; Normal	Nonparametric	0.000590	0.000620	0.000280	0.000710	0.000106	0.180	-2.11
19_2_5_129	MW-09	Part 115	Zinc	mg/L	20	8	40%	2022-11-28 to 2026-08-10	Gamma; Lognormal	Gamma	0.0122	0.00180	0.00120	0.120	0.0264	2.17	3.94
20_3_3_105	MW-10	Appendix III	Boron	mg/L	20	0	0%	2022-11-29 to 2026-08-10	Normal	Normal	19.4	21.5	4.50	30.0	8.23	0.425	-0.455
20_3_3_107	MW-10	Appendix III	Calcium	mg/L	20	0	0%	2022-11-29 to 2026-08-10	Gamma; Lognormal	Gamma	284	270	160	590	106	0.374	1.58
20_3_3_108	MW-10	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	2022-11-29 to 2026-08-10	Gamma; Lognormal; Normal	Normal	329	315	92.0	700	180	0.548	0.702
20_3_3_112	MW-10	Appendix III	Fluoride	mg/L	20	0	0%	2022-11-29 to 2026-08-10	Gamma; Normal	Normal	5.33	5.65	2.70	7.70	1.41	0.264	-0.422
20_3_3_120	MW-10	Appendix III	pH (field)	su	20	0	0%	2022-11-29 to 2026-08-10	Nonparametric	Nonparametric	7.74	7.78	7.05	8.81	0.354	0.0458	1.15
20_3_3_124	MW-10	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	2022-11-29 to 2026-08-10	Gamma; Lognormal; Normal	Normal	525	400	30.0	1700	394	0.750	1.51
20_3_3_126	MW-10	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	2022-11-29 to 2026-08-10	Nonparametric	Nonparametric	2010	1850	1500	3200	455	0.226	1.33
20_3_4_101	MW-10	Appendix IV	Antimony	mg/L	20	15	75%	2022-11-29 to 2026-08-10	Nonparametric	Nonparametric	0.000158	0.000100	0.0000500	0.000500	0.000134	0.846	2.01
20_3_4_102	MW-10	Appendix IV	Arsenic	mg/L	20	0	0%	2022-11-29 to 2026-08-10	Gamma; Lognormal; Normal	Normal	0.000839	0.000735	0.000200	0.00200	0.000515	0.614	0.848
20_3_4_103	MW-10	Appendix IV	Barium	mg/L	20	0	0%	2022-11-29 to 2026-08-10	Gamma; Lognormal; Normal	Normal	0.359	0.320	0.140	0.720	0.167	0.464	0.806
20_3_4_104	MW-10	Appendix IV	Beryllium	mg/L	20	10	50%	2022-11-29 to 2026-08-10	Gamma; Lognormal; Normal	Nonparametric	0.0000795	0.0000585	0.0000520	0.000220	0.0000430	0.541	2.20
20_3_4_106	MW-10	Appendix IV	Cadmium	mg/L	20	20	100%	2022-11-29 to 2026-08-10		Nonparametric	0.000108	0.0000750	0.0000320	0.000380	0.0000986	0.917	2.38
20_3_4_109	MW-10	Appendix IV	Chromium, Total	mg/L	20	0	0%	2022-11-29 to 2026-08-10	Gamma; Lognormal; Normal	Normal	0.00411	0.00415	0.00130	0.00850	0.00186	0.454	0.527
20_3_4_110	MW-10	Appendix IV	Cobalt	mg/L	20	1	5%	2022-11-29 to 2026-08-10	Gamma; Lognormal	Gamma	0.000484	0.000390	0.000100	0.00180	0.000368	0.761	2.59
20_3_4_113	MW-10	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	2022-11-29 to 2026-08-10	Gamma; Normal	Normal	5.33	5.65	2.70	7.70	1.41	0.264	-0.422
20_3_4_115	MW-10	Appendix IV	Lead	mg/L	20	17	85%	2022-11-29 to 2026-08-10		Nonparametric	0.000356	0.000195	0.000100	0.00110	0.000355	0.998	1.42
20_3_4_116	MW-10	Appendix IV	Lithium	mg/L	20	0	0%	2022-11-29 to 2026-08-10	Lognormal	Lognormal	0.935	0.955	0.540	1.60	0.224	0.239	0.985
20_3_4_117	MW-10	Appendix IV	Mercury	ng/L	20	17	85%	2022-11-29 to 2026-08-10		Nonparametric	199	160	0.160	1900	407	2.05	4.22
20_3_4_118	MW-10	Appendix IV	Molybdenum	mg/L	20	0	0%	2022-11-29 to 2026-08-10	Gamma; Lognormal; Normal	Normal	0.00279	0.00245	0.000650	0.00720	0.00168	0.601	1.08
20_3_4_121	MW-10	Appendix IV	Radium 226 and 228	pCi/L	20	15	75%	2022-11-29 to 2026-08-10	Gamma; Lognormal; Normal	Nonparametric	0.833	0.788	0.590	1.36	0.211	0.253	1.01
20_3_4_122	MW-10	Appendix IV	Selenium	mg/L	20	1	5%	2022-11-29 to 2026-08-10	Gamma; Lognormal	Gamma	0.000349	0.000330	0.000190	0.000830	0.000130	0.373	2.76
20_3_4_125	MW-10	Appendix IV	Thallium	mg/L	20	20	100%	2022-11-29 to 2026-08-10		Nonparametric	0.000182	0.0000750	0.0000750	0.000380	0.000149	0.821	0.681
20_3_5_111	MW-10	Part 115	Copper	mg/L	20	16	80%	2022-11-29 to 2026-08-10		Nonparametric	0.000329	0.000200	0.000200	0.00130	0.000324	0.987	2.66
20_3_5_114	MW-10	Part 115	Iron	mg/L	20	0	0%	2022-11-29 to 2026-08-10	Gamma; Lognormal; Normal	Normal	4.76	4.40	2.30	7.70	1.75	0.366	0.218
20_3_5_119	MW-10	Part 115	Nickel	mg/L	20	7	35%	2022-11-29 to 2026-08-10	Lognormal	Lognormal	0.000910	0.000860	0.000650	0.00180	0.000313	0.344	1.60
20_3_5_123	MW-10	Part 115	Silver	mg/L	20	20	100%	2022-11-29 to 2026-08-10		Nonparametric	0.0000900	0.0000500	0.0000500	0.000250	0.0000821	0.911	1.62
20_3_5_128	MW-10	Part 115	Vanadium	mg/L	20	12	60%	2022-11-29 to 2026-08-10	Gamma; Lognormal; Normal	Nonparametric	0.000786	0.000620	0.000450	0.00150	0.000315	0.400	1.32
20_3_5_129	MW-10	Part 115	Zinc	mg/L	20	7	35%	2022-11-29 to 2026-08-10	Gamma; Lognormal; Normal	Gamma	0.00846	0.00150	0.00120	0.0480	0.0126	1.49	2.16

(Table continues on next page)

[a] Non-detects are excluded from goodness-of-fit tests.

Table 1: Summary Statistics, Non-Detects Included *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit[a]	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness
21_2_3_105	MW-11	Appendix III	Boron	mg/L	20	0	0%	2022-11-29 to 2026-08-12	Gamma; Lognormal; Normal	Normal	6.84	5.80	1.50	14.0	3.91	0.571	0.524
21_2_3_107	MW-11	Appendix III	Calcium	mg/L	20	0	0%	2022-11-29 to 2026-08-12	Gamma; Lognormal; Normal	Normal	248	255	130	380	74.4	0.300	-0.188
21_2_3_108	MW-11	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	2022-11-29 to 2026-08-12	Gamma; Lognormal; Normal	Normal	68.1	72.0	38.0	95.0	16.6	0.244	-0.237
21_2_3_112	MW-11	Appendix III	Fluoride	mg/L	20	0	0%	2022-11-29 to 2026-08-12	Gamma; Lognormal; Normal	Normal	0.744	0.690	0.210	1.60	0.428	0.576	0.779
21_2_3_120	MW-11	Appendix III	pH (field)	su	20	0	0%	2022-11-29 to 2026-08-12	Gamma; Lognormal; Normal	Normal	7.29	7.32	7.09	7.47	0.107	0.0146	-0.364
21_2_3_124	MW-11	Appendix III	Sulfate (as SO4)	mg/L	20	7	35%	2022-11-29 to 2026-08-12	Gamma; Lognormal	Gamma	32.7	8.60	0.410	210	59.5	1.82	2.39
21_2_3_126	MW-11	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	2022-11-29 to 2026-08-12	Gamma; Lognormal; Normal	Normal	1020	985	680	1800	245	0.240	1.59
21_2_4_101	MW-11	Appendix IV	Antimony	mg/L	20	15	75%	2022-11-29 to 2026-08-12	Gamma; Lognormal; Normal	Nonparametric	0.000172	0.000100	0.0000500	0.000690	0.000165	0.960	2.23
21_2_4_102	MW-11	Appendix IV	Arsenic	mg/L	20	0	0%	2022-11-29 to 2026-08-12	Gamma; Lognormal	Gamma	0.00200	0.00160	0.000610	0.00440	0.00116	0.579	1.16
21_2_4_103	MW-11	Appendix IV	Barium	mg/L	20	0	0%	2022-11-29 to 2026-08-12	Gamma; Lognormal; Normal	Normal	0.713	0.630	0.360	1.40	0.263	0.369	1.29
21_2_4_104	MW-11	Appendix IV	Beryllium	mg/L	20	14	70%	2022-11-29 to 2026-08-12	Lognormal	Nonparametric	0.0000828	0.0000520	0.0000520	0.000440	0.0000865	1.04	4.08
21_2_4_106	MW-11	Appendix IV	Cadmium	mg/L	20	17	85%	2022-11-29 to 2026-08-12		Nonparametric	0.000139	0.0000750	0.0000320	0.000730	0.000168	1.21	2.75
21_2_4_109	MW-11	Appendix IV	Chromium, Total	mg/L	20	0	0%	2022-11-29 to 2026-08-12	Nonparametric	Nonparametric	0.00145	0.000975	0.000450	0.00860	0.00181	1.25	3.66
21_2_4_110	MW-11	Appendix IV	Cobalt	mg/L	20	0	0%	2022-11-29 to 2026-08-12	Lognormal	Lognormal	0.000687	0.000445	0.000230	0.00260	0.000661	0.961	2.35
21_2_4_113	MW-11	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	2022-11-29 to 2026-08-12	Gamma; Lognormal; Normal	Normal	0.744	0.690	0.210	1.60	0.428	0.576	0.779
21_2_4_115	MW-11	Appendix IV	Lead	mg/L	20	3	15%	2022-11-29 to 2026-08-12	Lognormal	Nonparametric	0.00657	0.000850	0.000170	0.0680	0.0163	2.48	3.37
21_2_4_116	MW-11	Appendix IV	Lithium	mg/L	20	0	0%	2022-11-29 to 2026-08-12	Gamma; Lognormal; Normal	Normal	0.0758	0.0560	0.00590	0.220	0.0570	0.752	1.08
21_2_4_117	MW-11	Appendix IV	Mercury	ng/L	20	13	65%	2022-11-29 to 2026-08-12	Nonparametric	Nonparametric	160	160	0.880	1100	233	1.45	3.74
21_2_4_118	MW-11	Appendix IV	Molybdenum	mg/L	20	2	10%	2022-11-29 to 2026-08-12	Gamma; Lognormal; Normal	Normal	0.00159	0.00115	0.000360	0.00430	0.00118	0.741	1.07
21_2_4_121	MW-11	Appendix IV	Radium 226 and 228	pCi/L	19	7	37%	2022-11-29 to 2026-08-12	Gamma; Lognormal; Normal	Normal	0.961	0.852	0.457	1.76	0.371	0.386	0.799
21_2_4_122	MW-11	Appendix IV	Selenium	mg/L	20	3	15%	2022-11-29 to 2026-08-12	Gamma; Lognormal	Gamma	0.000251	0.000220	0.000140	0.000710	0.000128	0.509	2.72
21_2_4_125	MW-11	Appendix IV	Thallium	mg/L	20	19	95%	2022-11-29 to 2026-08-12		Nonparametric	0.000128	0.0000750	0.0000750	0.000380	0.000113	0.885	1.89
21_2_5_111	MW-11	Part 115	Copper	mg/L	20	4	20%	2022-11-29 to 2026-08-12	Nonparametric	Nonparametric	0.00185	0.000395	0.000200	0.0190	0.00429	2.32	3.76
21_2_5_114	MW-11	Part 115	Iron	mg/L	20	0	0%	2022-11-29 to 2026-08-12	Gamma; Lognormal; Normal	Normal	8.24	7.45	3.60	18.0	3.95	0.479	1.48
21_2_5_119	MW-11	Part 115	Nickel	mg/L	20	0	0%	2022-11-29 to 2026-08-12	Nonparametric	Nonparametric	0.00259	0.00150	0.000650	0.0150	0.00346	1.34	3.08
21_2_5_123	MW-11	Part 115	Silver	mg/L	20	17	85%	2022-11-29 to 2026-08-12		Nonparametric	0.0000855	0.0000500	0.0000500	0.000250	0.0000678	0.793	1.74
21_2_5_128	MW-11	Part 115	Vanadium	mg/L	20	13	65%	2022-11-29 to 2026-08-12	Nonparametric	Nonparametric	0.000749	0.000620	0.000510	0.00300	0.000538	0.719	4.26
21_2_5_129	MW-11	Part 115	Zinc	mg/L	20	4	20%	2022-11-29 to 2026-08-12	Gamma; Normal	Gamma	0.0280	0.0203	0.00120	0.100	0.0305	1.09	1.01
22_2_3_105	MW-12	Appendix III	Boron	mg/L	20	0	0%	2022-11-28 to 2026-08-12	Gamma; Lognormal; Normal	Normal	0.311	0.265	0.140	0.620	0.114	0.366	0.970
22_2_3_107	MW-12	Appendix III	Calcium	mg/L	20	0	0%	2022-11-28 to 2026-08-12	Gamma; Lognormal; Normal	Normal	64.5	63.5	37.0	99.0	19.5	0.302	0.258
22_2_3_108	MW-12	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	2022-11-28 to 2026-08-12	Gamma; Lognormal; Normal	Normal	18.0	17.0	9.00	27.0	5.02	0.279	0.409
22_2_3_112	MW-12	Appendix III	Fluoride	mg/L	20	0	0%	2022-11-28 to 2026-08-12	Lognormal	Lognormal	0.316	0.290	0.200	0.540	0.0952	0.301	1.12
22_2_3_120	MW-12	Appendix III	pH (field)	su	20	0	0%	2022-11-28 to 2026-08-12	Gamma; Lognormal; Normal	Normal	7.64	7.66	7.00	8.32	0.322	0.0422	0.172
22_2_3_124	MW-12	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	2022-11-28 to 2026-08-12	Gamma; Lognormal; Normal	Normal	90.8	91.5	9.20	180	46.4	0.510	0.326
22_2_3_126	MW-12	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	2022-11-28 to 2026-08-12	Gamma; Lognormal; Normal	Normal	274	265	100	420	88.6	0.323	-0.130
22_2_4_101	MW-12	Appendix IV	Antimony	mg/L	20	0	0%	2022-11-28 to 2026-08-12	Gamma; Lognormal; Normal	Normal	0.000688	0.000660	0.000160	0.00150	0.000390	0.566	0.697
22_2_4_102	MW-12	Appendix IV	Arsenic	mg/L	20	0	0%	2022-11-28 to 2026-08-12	Gamma; Lognormal	Gamma	0.00276	0.00220	0.00140	0.00640	0.00149	0.540	1.43
22_2_4_103	MW-12	Appendix IV	Barium	mg/L	20	0	0%	2022-11-28 to 2026-08-12	Gamma; Lognormal; Normal	Normal	0.0553	0.0465	0.0170	0.140	0.0372	0.672	1.17
22_2_4_104	MW-12	Appendix IV	Beryllium	mg/L	20	19	95%	2022-11-28 to 2026-08-12		Nonparametric	0.0000575	0.0000520	0.0000520	0.000100	0.0000149	0.259	2.69
22_2_4_106	MW-12	Appendix IV	Cadmium	mg/L	20	0	0%	2022-11-28 to 2026-08-12	Gamma; Lognormal	Gamma	0.00217	0.00145	0.000540	0.0110	0.00236	1.09	3.06
22_2_4_109	MW-12	Appendix IV	Chromium, Total	mg/L	20	6	30%	2022-11-28 to 2026-08-12	Gamma; Lognormal; Normal	Normal	0.000430	0.000375	0.000200	0.000990	0.000270	0.628	1.11
22_2_4_110	MW-12	Appendix IV	Cobalt	mg/L	20	5	25%	2022-11-28 to 2026-08-12	Gamma; Lognormal	Gamma	0.000485	0.000225	0.000100	0.00280	0.000643	1.33	2.78

(Table continues on next page)

[a] Non-detects are excluded from goodness-of-fit tests.

Table 1: Summary Statistics, Non-Detects Included *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit[a]	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness
22_2_4_113	MW-12	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	2022-11-28 to 2026-08-12	Lognormal	Lognormal	0.316	0.290	0.200	0.540	0.0952	0.301	1.12
22_2_4_115	MW-12	Appendix IV	Lead	mg/L	20	6	30%	2022-11-28 to 2026-08-12	Gamma; Lognormal; Normal	Normal	0.000287	0.000220	0.000100	0.000800	0.000165	0.574	1.78
22_2_4_116	MW-12	Appendix IV	Lithium	mg/L	20	1	5%	2022-11-28 to 2026-08-12	Gamma; Lognormal; Normal	Normal	0.00368	0.00370	0.00190	0.00640	0.00141	0.383	0.247
22_2_4_117	MW-12	Appendix IV	Mercury	ng/L	20	12	60%	2022-11-28 to 2026-08-12	Nonparametric	Nonparametric	116	160	0.830	230	78.3	0.675	-0.776
22_2_4_118	MW-12	Appendix IV	Molybdenum	mg/L	20	0	0%	2022-11-28 to 2026-08-12	Gamma; Lognormal	Gamma	0.00750	0.00700	0.00420	0.0180	0.00289	0.386	2.61
22_2_4_121	MW-12	Appendix IV	Radium 226 and 228	pCi/L	20	12	60%	2022-11-28 to 2026-08-12	Gamma; Lognormal; Normal	Nonparametric	0.639	0.608	0.393	1.09	0.164	0.256	1.13
22_2_4_122	MW-12	Appendix IV	Selenium	mg/L	20	0	0%	2022-11-28 to 2026-08-12	Gamma; Lognormal	Gamma	0.00120	0.000825	0.000130	0.00450	0.00130	1.09	1.57
22_2_4_125	MW-12	Appendix IV	Thallium	mg/L	20	20	100%	2022-11-28 to 2026-08-12		Nonparametric	0.0000750	0.0000750	0.0000750	0.0000750	0	0	NA
22_2_5_111	MW-12	Part 115	Copper	mg/L	20	0	0%	2022-11-28 to 2026-08-12	Gamma; Lognormal; Normal	Normal	0.00155	0.00125	0.000550	0.00350	0.000874	0.564	1.29
22_2_5_114	MW-12	Part 115	Iron	mg/L	20	6	30%	2022-11-28 to 2026-08-12	Lognormal	Nonparametric	0.131	0.0490	0.0210	0.920	0.211	1.60	3.13
22_2_5_119	MW-12	Part 115	Nickel	mg/L	20	0	0%	2022-11-28 to 2026-08-12	Gamma; Lognormal	Gamma	0.00285	0.00255	0.00100	0.00730	0.00153	0.537	1.79
22_2_5_123	MW-12	Part 115	Silver	mg/L	20	20	100%	2022-11-28 to 2026-08-12		Nonparametric	0.0000500	0.0000500	0.0000500	0.0000500	0	0	NA
22_2_5_128	MW-12	Part 115	Vanadium	mg/L	20	6	30%	2022-11-28 to 2026-08-12	Gamma; Lognormal; Normal	Normal	0.000916	0.000860	0.000440	0.00210	0.000410	0.447	1.46
22_2_5_129	MW-12	Part 115	Zinc	mg/L	20	0	0%	2022-11-28 to 2026-08-12	Gamma; Lognormal	Gamma	0.0111	0.00875	0.00270	0.0230	0.00617	0.556	0.793
26_1_3_105	MW-16	Appendix III	Boron	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.339	0.330	0.210	0.500	0.0970	0.286	0.186
26_1_3_107	MW-16	Appendix III	Calcium	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	230	230	180	280	32	0.139	-0.204
26_1_3_108	MW-16	Appendix III	Chloride (as Cl)	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	19.3	19.0	14.0	23.0	2.98	0.155	-0.269
26_1_3_112	MW-16	Appendix III	Fluoride	mg/L	10	1	10%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.158	0.170	0.0550	0.200	0.0436	0.275	-1.62
26_1_3_120	MW-16	Appendix III	pH (field)	su	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	7.01	7.0	6.53	7.30	0.276	0.0394	-0.369
26_1_3_124	MW-16	Appendix III	Sulfate (as SO4)	mg/L	10	2	20%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Gamma	63.8	37.5	1.10	190	69.8	1.09	0.713
26_1_3_126	MW-16	Appendix III	Total Dissolved Solids	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	779	790	640	910	84.6	0.109	-0.272
26_1_4_101	MW-16	Appendix IV	Antimony	mg/L	10	9	90%	2024-04-08 to 2026-08-11		Nonparametric	0.000101	0.000100	0.000100	0.000110	0.00000316	0.0313	3.16
26_1_4_102	MW-16	Appendix IV	Arsenic	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.00951	0.00575	0.00120	0.0230	0.00753	0.792	0.691
26_1_4_103	MW-16	Appendix IV	Barium	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.260	0.270	0.180	0.380	0.0638	0.245	0.415
26_1_4_104	MW-16	Appendix IV	Beryllium	mg/L	10	9	90%	2024-04-08 to 2026-08-11		Nonparametric	0.0000618	0.0000520	0.0000520	0.000100	0.0000201	0.326	1.77
26_1_4_106	MW-16	Appendix IV	Cadmium	mg/L	10	10	100%	2024-04-08 to 2026-08-11		Nonparametric	0.0000750	0.0000750	0.0000750	0.0000750	0	0	NA
26_1_4_109	MW-16	Appendix IV	Chromium, Total	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.00106	0.000790	0.000510	0.00220	0.000580	0.546	0.952
26_1_4_110	MW-16	Appendix IV	Cobalt	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Nonparametric	Nonparametric	0.000262	0.000200	0.000160	0.000630	0.000148	0.563	2.09
26_1_4_113	MW-16	Appendix IV	Fluoride (App IV)	mg/L	10	1	10%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.158	0.170	0.0550	0.200	0.0436	0.275	-1.62
26_1_4_115	MW-16	Appendix IV	Lead	mg/L	10	6	60%	2024-04-08 to 2026-08-11		Nonparametric	0.000134	0.000100	0.000100	0.000280	0.0000591	0.441	2.05
26_1_4_116	MW-16	Appendix IV	Lithium	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.0217	0.0225	0.0150	0.0270	0.00400	0.184	-0.544
26_1_4_117	MW-16	Appendix IV	Mercury	ng/L	10	8	80%	2024-04-08 to 2026-08-11		Nonparametric	64.1	0.360	0.160	160	82.5	1.29	0.484
26_1_4_118	MW-16	Appendix IV	Molybdenum	mg/L	10	9	90%	2024-04-08 to 2026-08-11		Nonparametric	0.000287	0.000250	0.000250	0.000550	0.0000950	0.331	2.89
26_1_4_121	MW-16	Appendix IV	Radium 226 and 228	pCi/L	10	4	40%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.723	0.633	0.525	1.16	0.200	0.277	1.53
26_1_4_122	MW-16	Appendix IV	Selenium	mg/L	10	1	10%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.000153	0.000140	0.000100	0.000250	0.0000483	0.316	1.14
26_1_4_125	MW-16	Appendix IV	Thallium	mg/L	10	10	100%	2024-04-08 to 2026-08-11		Nonparametric	0.0000750	0.0000750	0.0000750	0.0000750	0	0	NA
26_1_5_111	MW-16	Part 115	Copper	mg/L	10	5	50%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Nonparametric	0.000244	0.000215	0.000200	0.000350	0.0000564	0.231	0.948
26_1_5_114	MW-16	Part 115	Iron	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	7.66	6.90	0.990	13.0	3.75	0.489	-0.0490
26_1_5_119	MW-16	Part 115	Nickel	mg/L	10	1	10%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Gamma	0.00287	0.00145	0.000550	0.00880	0.00287	0.999	1.21
26_1_5_123	MW-16	Part 115	Silver	mg/L	10	10	100%	2024-04-08 to 2026-08-11		Nonparametric	0.0000500	0.0000500	0.0000500	0.0000500	0	0	NA
26_1_5_128	MW-16	Part 115	Vanadium	mg/L	10	3	30%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.000735	0.000655	0.000380	0.00110	0.000217	0.296	0.346
26_1_5_129	MW-16	Part 115	Zinc	mg/L	10	2	20%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Gamma	0.0108	0.00980	0.000870	0.0290	0.0104	0.966	0.733

(Table continues on next page)

[a] Non-detects are excluded from goodness-of-fit tests.

Table 1: Summary Statistics, Non-Detects Included *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit[a]	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness
27_1_3_105	MW-17	Appendix III	Boron	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.709	0.770	0.320	1.00	0.226	0.318	-0.473
27_1_3_107	MW-17	Appendix III	Calcium	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	132	130	98.0	160	18.5	0.141	-0.186
27_1_3_108	MW-17	Appendix III	Chloride (as Cl)	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Normal	Normal	31.4	33.5	10.0	47.0	10.7	0.342	-0.656
27_1_3_112	MW-17	Appendix III	Fluoride	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.591	0.580	0.380	0.750	0.116	0.196	-0.272
27_1_3_120	MW-17	Appendix III	pH (field)	su	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	7.59	7.53	7.31	7.88	0.193	0.0254	0.321
27_1_3_124	MW-17	Appendix III	Sulfate (as SO4)	mg/L	10	2	20%	2024-04-08 to 2026-08-11	Gamma; Lognormal	Gamma	13	4.60	0.580	50.0	17.4	1.35	1.39
27_1_3_126	MW-17	Appendix III	Total Dissolved Solids	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Nonparametric	Nonparametric	566	605	360	620	86.0	0.152	-1.93
27_1_4_101	MW-17	Appendix IV	Antimony	mg/L	10	8	80%	2024-04-08 to 2026-08-11		Nonparametric	0.000246	0.000100	0.000100	0.00150	0.000441	1.79	3.15
27_1_4_102	MW-17	Appendix IV	Arsenic	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.00187	0.00190	0.00120	0.00260	0.000488	0.261	0.0263
27_1_4_103	MW-17	Appendix IV	Barium	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.649	0.640	0.280	0.900	0.180	0.278	-0.589
27_1_4_104	MW-17	Appendix IV	Beryllium	mg/L	10	9	90%	2024-04-08 to 2026-08-11		Nonparametric	0.0000633	0.0000520	0.0000520	0.000100	0.0000201	0.317	1.53
27_1_4_106	MW-17	Appendix IV	Cadmium	mg/L	10	9	90%	2024-04-08 to 2026-08-11		Nonparametric	0.0000785	0.0000750	0.0000750	0.000110	0.0000111	0.141	3.16
27_1_4_109	MW-17	Appendix IV	Chromium, Total	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal	Gamma	0.000896	0.000710	0.000540	0.00240	0.000556	0.621	2.63
27_1_4_110	MW-17	Appendix IV	Cobalt	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Lognormal	Lognormal	0.000420	0.000330	0.000260	0.000890	0.000185	0.441	2.09
27_1_4_113	MW-17	Appendix IV	Fluoride (App IV)	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.591	0.580	0.380	0.750	0.116	0.196	-0.272
27_1_4_115	MW-17	Appendix IV	Lead	mg/L	10	1	10%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.000398	0.000370	0.000100	0.000900	0.000272	0.683	0.795
27_1_4_116	MW-17	Appendix IV	Lithium	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.0313	0.0340	0.0160	0.0430	0.00803	0.256	-0.658
27_1_4_117	MW-17	Appendix IV	Mercury	ng/L	10	7	70%	2024-04-08 to 2026-08-11		Nonparametric	64.5	1.95	0.160	160	82.2	1.28	0.484
27_1_4_118	MW-17	Appendix IV	Molybdenum	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Nonparametric	Nonparametric	0.00217	0.000785	0.000420	0.0130	0.00388	1.79	2.95
27_1_4_121	MW-17	Appendix IV	Radium 226 and 228	pCi/L	10	3	30%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.829	0.824	0.530	1.28	0.237	0.286	0.458
27_1_4_122	MW-17	Appendix IV	Selenium	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Nonparametric	Nonparametric	0.000298	0.000170	0.000110	0.00150	0.000424	1.42	3.13
27_1_4_125	MW-17	Appendix IV	Thallium	mg/L	10	10	100%	2024-04-08 to 2026-08-11		Nonparametric	0.0000750	0.0000750	0.0000750	0.0000750	0	0	NA
27_1_5_111	MW-17	Part 115	Copper	mg/L	10	1	10%	2024-04-08 to 2026-08-11	Gamma; Lognormal	Gamma	0.00142	0.000940	0.000200	0.00630	0.00182	1.28	2.53
27_1_5_114	MW-17	Part 115	Iron	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	4.29	4.40	1.90	6.60	1.18	0.275	-0.141
27_1_5_119	MW-17	Part 115	Nickel	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Lognormal	Lognormal	0.00189	0.00110	0.000790	0.00860	0.00239	1.27	3.03
27_1_5_123	MW-17	Part 115	Silver	mg/L	10	10	100%	2024-04-08 to 2026-08-11		Nonparametric	0.0000500	0.0000500	0.0000500	0.0000500	0	0	NA
27_1_5_128	MW-17	Part 115	Vanadium	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.000765	0.000710	0.000510	0.00130	0.000241	0.315	1.20
27_1_5_129	MW-17	Part 115	Zinc	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal	Gamma	0.0223	0.00815	0.00200	0.0740	0.0251	1.13	1.16
28_1_3_105	MW-18	Appendix III	Boron	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Lognormal; Normal	Normal	3.13	3.05	1.50	5.20	1.05	0.336	0.193
28_1_3_107	MW-18	Appendix III	Calcium	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Lognormal; Normal	Normal	318	330	190	450	69.5	0.219	0.0501
28_1_3_108	MW-18	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Lognormal; Normal	Normal	22.9	23.5	13.0	34.0	5.51	0.241	0.142
28_1_3_112	MW-18	Appendix III	Fluoride	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Lognormal; Normal	Normal	3.90	3.70	2.70	5.10	0.677	0.174	0.366
28_1_3_120	MW-18	Appendix III	pH (field)	su	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Lognormal; Normal	Normal	7.18	7.18	6.96	7.31	0.0946	0.0132	-0.613
28_1_3_124	MW-18	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Lognormal; Normal	Normal	742	745	300	1200	243	0.328	0.295
28_1_3_126	MW-18	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Lognormal; Normal	Normal	1286	1300	740	1800	274	0.213	-0.0919
28_1_4_101	MW-18	Appendix IV	Antimony	mg/L	20	3	15%	2022-11-30 to 2026-08-11	Lognormal	Lognormal	0.000305	0.000175	0.000100	0.00110	0.000286	0.938	1.97
28_1_4_102	MW-18	Appendix IV	Arsenic	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.0271	0.0285	0.00970	0.0440	0.00840	0.310	0.0178
28_1_4_103	MW-18	Appendix IV	Barium	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Lognormal	Gamma	0.0246	0.0215	0.0120	0.0880	0.0165	0.670	3.23
28_1_4_104	MW-18	Appendix IV	Beryllium	mg/L	20	16	80%	2022-11-30 to 2026-08-11		Nonparametric	0.0000577	0.0000520	0.0000520	0.000100	0.0000146	0.254	2.77
28_1_4_106	MW-18	Appendix IV	Cadmium	mg/L	20	7	35%	2022-11-30 to 2026-08-11	Gamma; Lognormal	Gamma	0.000328	0.000180	0.0000750	0.00110	0.000333	1.02	1.40
28_1_4_109	MW-18	Appendix IV	Chromium, Total	mg/L	20	16	80%	2022-11-30 to 2026-08-11		Nonparametric	0.000255	0.000200	0.000180	0.000880	0.000177	0.694	3.11
28_1_4_110	MW-18	Appendix IV	Cobalt	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Lognormal	Gamma	0.00249	0.00200	0.000800	0.00600	0.00140	0.560	1.47

(Table continues on next page)

[a] Non-detects are excluded from goodness-of-fit tests.

Table 1: Summary Statistics, Non-Detects Included *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit[a]	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness
28_1_4_113	MW-18	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Lognormal; Normal	Normal	3.90	3.70	2.70	5.10	0.677	0.174	0.366
28_1_4_115	MW-18	Appendix IV	Lead	mg/L	20	12	60%	2022-11-30 to 2026-08-11	Gamma; Lognormal; Normal	Nonparametric	0.000251	0.000190	0.000100	0.00110	0.000233	0.927	2.88
28_1_4_116	MW-18	Appendix IV	Lithium	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.0364	0.0375	0.0200	0.0580	0.00877	0.241	0.337
28_1_4_117	MW-18	Appendix IV	Mercury	ng/L	20	15	75%	2022-11-30 to 2026-08-11	Gamma; Lognormal; Normal	Nonparametric	112	160	0.160	160	74.7	0.665	-0.945
28_1_4_118	MW-18	Appendix IV	Molybdenum	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.0165	0.0155	0.00900	0.0280	0.00483	0.293	0.566
28_1_4_121	MW-18	Appendix IV	Radium 226 and 228	pCi/L	20	10	50%	2022-11-30 to 2026-08-11	Gamma; Lognormal	Nonparametric	0.639	0.598	0.447	1.27	0.180	0.282	2.45
28_1_4_122	MW-18	Appendix IV	Selenium	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Lognormal	Gamma	0.00101	0.000470	0.000140	0.00660	0.00147	1.45	3.21
28_1_4_125	MW-18	Appendix IV	Thallium	mg/L	20	18	90%	2022-11-30 to 2026-08-11		Nonparametric	0.000129	0.0000750	0.0000750	0.000380	0.000111	0.860	1.92
28_1_5_111	MW-18	Part 115	Copper	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Nonparametric	Nonparametric	0.000961	0.000585	0.000330	0.00410	0.000896	0.933	2.57
28_1_5_114	MW-18	Part 115	Iron	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Normal	Normal	6.02	5.80	1.80	10.0	1.86	0.309	-0.0673
28_1_5_119	MW-18	Part 115	Nickel	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.00662	0.00570	0.00320	0.0110	0.00234	0.353	0.653
28_1_5_123	MW-18	Part 115	Silver	mg/L	20	20	100%	2022-11-30 to 2026-08-11		Nonparametric	0.0000800	0.0000500	0.0000500	0.000250	0.0000733	0.916	2.12
28_1_5_128	MW-18	Part 115	Vanadium	mg/L	20	18	90%	2022-11-30 to 2026-08-11		Nonparametric	0.000540	0.000620	0.000280	0.000620	0.000142	0.263	-1.29
28_1_5_129	MW-18	Part 115	Zinc	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Lognormal	Gamma	0.0696	0.0510	0.0160	0.210	0.0516	0.742	1.50
29_1_3_105	MW-19	Appendix III	Boron	mg/L	20	0	0%	2022-11-30 to 2026-08-12	Gamma; Lognormal; Normal	Normal	2.15	2.10	1.50	3.40	0.503	0.233	0.634
29_1_3_107	MW-19	Appendix III	Calcium	mg/L	20	0	0%	2022-11-30 to 2026-08-12	Gamma; Lognormal; Normal	Normal	450	455	360	550	55.7	0.124	-0.0253
29_1_3_108	MW-19	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	2022-11-30 to 2026-08-12	Gamma; Lognormal; Normal	Normal	39.0	37.5	17.0	75.0	15.5	0.397	0.842
29_1_3_112	MW-19	Appendix III	Fluoride	mg/L	20	0	0%	2022-11-30 to 2026-08-12	Gamma; Lognormal; Normal	Normal	1.84	1.90	1.40	2.30	0.258	0.140	-0.0684
29_1_3_120	MW-19	Appendix III	pH (field)	su	20	0	0%	2022-11-30 to 2026-08-12	Gamma; Lognormal; Normal	Normal	6.79	6.83	6.34	7.07	0.187	0.0275	-1.09
29_1_3_124	MW-19	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	2022-11-30 to 2026-08-12	Gamma; Lognormal; Normal	Normal	962	940	600	1300	180	0.187	0.296
29_1_3_126	MW-19	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	2022-11-30 to 2026-08-12	Gamma; Lognormal; Normal	Normal	1795	1700	1400	2200	246	0.137	0.465
29_1_4_101	MW-19	Appendix IV	Antimony	mg/L	20	14	70%	2022-11-30 to 2026-08-12	Gamma; Lognormal; Normal	Nonparametric	0.000236	0.000100	0.0000500	0.000720	0.000215	0.909	1.07
29_1_4_102	MW-19	Appendix IV	Arsenic	mg/L	20	0	0%	2022-11-30 to 2026-08-12	Gamma; Lognormal; Normal	Normal	0.00432	0.00425	0.00100	0.00730	0.00200	0.463	-0.0171
29_1_4_103	MW-19	Appendix IV	Barium	mg/L	20	0	0%	2022-11-30 to 2026-08-12	Gamma; Lognormal; Normal	Normal	0.0379	0.0370	0.0280	0.0500	0.00582	0.154	0.375
29_1_4_104	MW-19	Appendix IV	Beryllium	mg/L	20	3	15%	2022-11-30 to 2026-08-12	Gamma; Lognormal; Normal	Normal	0.0000944	0.0000850	0.0000520	0.000260	0.0000471	0.499	2.46
29_1_4_106	MW-19	Appendix IV	Cadmium	mg/L	20	18	90%	2022-11-30 to 2026-08-12		Nonparametric	0.000128	0.0000750	0.0000320	0.000380	0.000111	0.866	1.52
29_1_4_109	MW-19	Appendix IV	Chromium, Total	mg/L	20	6	30%	2022-11-30 to 2026-08-12	Lognormal	Lognormal	0.000289	0.000245	0.000180	0.000880	0.000160	0.553	3.06
29_1_4_110	MW-19	Appendix IV	Cobalt	mg/L	20	2	10%	2022-11-30 to 2026-08-12	Gamma; Lognormal; Normal	Normal	0.000544	0.000460	0.000100	0.00130	0.000354	0.651	0.643
29_1_4_113	MW-19	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	2022-11-30 to 2026-08-12	Gamma; Lognormal; Normal	Normal	1.84	1.90	1.40	2.30	0.258	0.140	-0.0684
29_1_4_115	MW-19	Appendix IV	Lead	mg/L	20	20	100%	2022-11-30 to 2026-08-12		Nonparametric	0.000362	0.000160	0.000100	0.00110	0.000360	0.993	1.30
29_1_4_116	MW-19	Appendix IV	Lithium	mg/L	20	0	0%	2022-11-30 to 2026-08-12	Gamma; Lognormal; Normal	Normal	0.0877	0.0875	0.0720	0.110	0.0113	0.128	0.481
29_1_4_117	MW-19	Appendix IV	Mercury	ng/L	20	18	90%	2022-11-30 to 2026-08-12		Nonparametric	112	160	0.160	160	75.1	0.671	-0.945
29_1_4_118	MW-19	Appendix IV	Molybdenum	mg/L	20	0	0%	2022-11-30 to 2026-08-12	Gamma; Lognormal; Normal	Normal	0.0118	0.0110	0.00390	0.0210	0.00460	0.391	0.590
29_1_4_121	MW-19	Appendix IV	Radium 226 and 228	pCi/L	20	9	45%	2022-11-30 to 2026-08-12	Gamma; Lognormal; Normal	Normal	0.746	0.687	0.414	1.17	0.229	0.307	0.598
29_1_4_122	MW-19	Appendix IV	Selenium	mg/L	20	11	55%	2022-11-30 to 2026-08-12	Nonparametric	Nonparametric	0.000392	0.000135	0.000100	0.00360	0.000794	2.02	3.87
29_1_4_125	MW-19	Appendix IV	Thallium	mg/L	20	19	95%	2022-11-30 to 2026-08-12		Nonparametric	0.000199	0.0000750	0.0000750	0.000380	0.000152	0.762	0.429
29_1_5_111	MW-19	Part 115	Copper	mg/L	20	16	80%	2022-11-30 to 2026-08-12		Nonparametric	0.000260	0.000200	0.000200	0.00100	0.000182	0.701	3.91
29_1_5_114	MW-19	Part 115	Iron	mg/L	20	0	0%	2022-11-30 to 2026-08-12	Gamma; Lognormal; Normal	Normal	15.1	15.0	8.20	24.0	4.38	0.290	0.161
29_1_5_119	MW-19	Part 115	Nickel	mg/L	20	1	5%	2022-11-30 to 2026-08-12	Lognormal	Lognormal	0.00372	0.00245	0.00110	0.0170	0.00418	1.12	2.67
29_1_5_123	MW-19	Part 115	Silver	mg/L	20	20	100%	2022-11-30 to 2026-08-12		Nonparametric	0.0000900	0.0000500	0.0000500	0.000250	0.0000821	0.912	1.62
29_1_5_128	MW-19	Part 115	Vanadium	mg/L	20	14	70%	2022-11-30 to 2026-08-12	Gamma; Lognormal; Normal	Nonparametric	0.000732	0.000620	0.000310	0.00310	0.000569	0.777	4.18
29_1_5_129	MW-19	Part 115	Zinc	mg/L	20	10	50%	2022-11-30 to 2026-08-12	Lognormal	Nonparametric	0.0127	0.00180	0.00120	0.100	0.0273	2.16	2.71

(Table continues on next page)

[a] Non-detects are excluded from goodness-of-fit tests.

Table 1: Summary Statistics, Non-Detects Included *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit[a]	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness
30_1_3_105	MW-20	Appendix III	Boron	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Lognormal; Normal	Normal	1.01	0.960	0.720	1.40	0.215	0.213	0.567
30_1_3_107	MW-20	Appendix III	Calcium	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Normal	Normal	128	130	58.0	170	22.7	0.178	-1.24
30_1_3_108	MW-20	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Lognormal; Normal	Normal	54	61.0	20.0	92.0	22.0	0.408	0.0182
30_1_3_112	MW-20	Appendix III	Fluoride	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Lognormal	Gamma	0.254	0.245	0.120	0.550	0.0800	0.315	2.66
30_1_3_120	MW-20	Appendix III	pH (field)	su	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Lognormal; Normal	Normal	7.33	7.33	7.08	7.50	0.116	0.0159	-0.422
30_1_3_124	MW-20	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Lognormal; Normal	Normal	55.8	51.0	18.0	120	30.4	0.545	0.586
30_1_3_126	MW-20	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Normal	Normal	635	645	340	840	104	0.164	-0.826
30_1_4_101	MW-20	Appendix IV	Antimony	mg/L	20	8	40%	2022-11-30 to 2026-08-11	Lognormal	Lognormal	0.000129	0.000100	0.0000540	0.000650	0.000125	0.965	4.20
30_1_4_102	MW-20	Appendix IV	Arsenic	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.00144	0.00140	0.00100	0.00190	0.000303	0.211	0.296
30_1_4_103	MW-20	Appendix IV	Barium	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Lognormal	Gamma	0.498	0.460	0.310	0.940	0.160	0.321	1.50
30_1_4_104	MW-20	Appendix IV	Beryllium	mg/L	20	19	95%	2022-11-30 to 2026-08-11		Nonparametric	0.0000572	0.0000520	0.0000520	0.000100	0.0000147	0.258	2.83
30_1_4_106	MW-20	Appendix IV	Cadmium	mg/L	20	19	95%	2022-11-30 to 2026-08-11		Nonparametric	0.0000800	0.0000750	0.0000320	0.000390	0.0000754	0.942	3.99
30_1_4_109	MW-20	Appendix IV	Chromium, Total	mg/L	20	10	50%	2022-11-30 to 2026-08-11	Nonparametric	Nonparametric	0.000300	0.000200	0.000180	0.00190	0.000378	1.26	4.43
30_1_4_110	MW-20	Appendix IV	Cobalt	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.00119	0.00110	0.000690	0.00180	0.000292	0.246	0.354
30_1_4_113	MW-20	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Lognormal	Gamma	0.254	0.245	0.120	0.550	0.0800	0.315	2.66
30_1_4_115	MW-20	Appendix IV	Lead	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Lognormal	Lognormal	0.00226	0.00190	0.00120	0.00780	0.00141	0.626	3.44
30_1_4_116	MW-20	Appendix IV	Lithium	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.0560	0.0580	0.0290	0.0830	0.0152	0.271	-0.133
30_1_4_117	MW-20	Appendix IV	Mercury	ng/L	20	14	70%	2022-11-30 to 2026-08-11	Gamma; Lognormal; Normal	Nonparametric	114	160	1.90	160	72.5	0.637	-0.947
30_1_4_118	MW-20	Appendix IV	Molybdenum	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.00419	0.00410	0.00240	0.00580	0.000818	0.196	-0.161
30_1_4_121	MW-20	Appendix IV	Radium 226 and 228	pCi/L	19	10	53%	2022-11-30 to 2026-08-11	Lognormal	Nonparametric	0.699	0.590	0.467	1.47	0.273	0.390	1.77
30_1_4_122	MW-20	Appendix IV	Selenium	mg/L	20	12	60%	2022-11-30 to 2026-08-11	Nonparametric	Nonparametric	0.000158	0.000110	0.000100	0.000430	0.0000859	0.542	1.86
30_1_4_125	MW-20	Appendix IV	Thallium	mg/L	20	19	95%	2022-11-30 to 2026-08-11		Nonparametric	0.0000767	0.0000750	0.0000750	0.000110	0.00000783	0.102	4.47
30_1_5_111	MW-20	Part 115	Copper	mg/L	20	2	10%	2022-11-30 to 2026-08-11	Lognormal	Lognormal	0.000553	0.000340	0.000200	0.00330	0.000693	1.25	3.64
30_1_5_114	MW-20	Part 115	Iron	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Lognormal; Normal	Normal	17.4	18.0	12.0	22.0	3.20	0.184	-0.268
30_1_5_119	MW-20	Part 115	Nickel	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Nonparametric	Nonparametric	0.00967	0.00910	0.00450	0.0340	0.00598	0.618	3.86
30_1_5_123	MW-20	Part 115	Silver	mg/L	20	20	100%	2022-11-30 to 2026-08-11		Nonparametric	0.0000500	0.0000500	0.0000500	0.0000500	0	0	NA
30_1_5_128	MW-20	Part 115	Vanadium	mg/L	20	20	100%	2022-11-30 to 2026-08-11		Nonparametric	0.000535	0.000620	0.000280	0.000620	0.000151	0.282	-1.25
30_1_5_129	MW-20	Part 115	Zinc	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Lognormal	Gamma	0.0373	0.0285	0.0130	0.110	0.0236	0.634	1.76
38_1_3_105	MW-28	Appendix III	Boron	mg/L	10	0	0%	2024-04-07 to 2026-08-12	Gamma; Lognormal; Normal	Normal	3.21	3.20	0.340	6.10	2.01	0.625	-0.00551
38_1_3_107	MW-28	Appendix III	Calcium	mg/L	10	0	0%	2024-04-07 to 2026-08-12	Gamma; Lognormal; Normal	Normal	173	170	120	230	32	0.185	0.220
38_1_3_108	MW-28	Appendix III	Chloride (as Cl)	mg/L	10	0	0%	2024-04-07 to 2026-08-12	Gamma; Lognormal; Normal	Normal	117	130	18.0	240	77.6	0.665	0.0382
38_1_3_112	MW-28	Appendix III	Fluoride	mg/L	10	0	0%	2024-04-07 to 2026-08-12	Gamma; Lognormal; Normal	Normal	1.13	1.14	0.400	2.00	0.485	0.428	0.104
38_1_3_120	MW-28	Appendix III	pH (field)	su	10	0	0%	2024-04-07 to 2026-08-12	Gamma; Lognormal; Normal	Normal	6.90	6.92	6.63	7.08	0.138	0.0201	-0.851
38_1_3_124	MW-28	Appendix III	Sulfate (as SO4)	mg/L	10	2	20%	2024-04-07 to 2026-08-12	Gamma; Lognormal; Normal	Gamma	19.5	6.60	0.580	57.0	22.5	1.15	0.623
38_1_3_126	MW-28	Appendix III	Total Dissolved Solids	mg/L	10	0	0%	2024-04-07 to 2026-08-12	Gamma; Lognormal; Normal	Normal	776	800	480	1100	195	0.251	-0.0434
38_1_4_101	MW-28	Appendix IV	Antimony	mg/L	10	0	0%	2024-04-07 to 2026-08-12	Gamma; Lognormal; Normal	Normal	0.000591	0.000320	0.000140	0.00210	0.000626	1.06	1.88
38_1_4_102	MW-28	Appendix IV	Arsenic	mg/L	10	0	0%	2024-04-07 to 2026-08-12	Gamma; Lognormal	Gamma	0.00235	0.00165	0.000760	0.00720	0.00193	0.824	2.08
38_1_4_103	MW-28	Appendix IV	Barium	mg/L	10	0	0%	2024-04-07 to 2026-08-12	Normal	Normal	0.558	0.670	0.150	0.760	0.228	0.409	-0.720
38_1_4_104	MW-28	Appendix IV	Beryllium	mg/L	10	10	100%	2024-04-07 to 2026-08-12		Nonparametric	0.0000616	0.0000520	0.0000520	0.000100	0.0000202	0.329	1.78
38_1_4_106	MW-28	Appendix IV	Cadmium	mg/L	10	5	50%	2024-04-07 to 2026-08-12	Gamma; Lognormal	Nonparametric	0.000559	0.0000775	0.0000750	0.00370	0.00113	2.02	2.90
38_1_4_109	MW-28	Appendix IV	Chromium, Total	mg/L	10	0	0%	2024-04-07 to 2026-08-12	Gamma; Lognormal; Normal	Normal	0.0103	0.00925	0.00180	0.0170	0.00522	0.506	-0.162
38_1_4_110	MW-28	Appendix IV	Cobalt	mg/L	10	0	0%	2024-04-07 to 2026-08-12	Gamma; Lognormal; Normal	Normal	0.00155	0.00165	0.000240	0.00310	0.00107	0.686	0.0290

(Table continues on next page)

[a] Non-detects are excluded from goodness-of-fit tests.

Table 1: Summary Statistics, Non-Detects Included *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit[a]	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness
38_1_4_113	MW-28	Appendix IV	Fluoride (App IV)	mg/L	10	0	0%	2024-04-07 to 2026-08-12	Gamma; Lognormal; Normal	Normal	1.13	1.14	0.400	2.00	0.485	0.428	0.104
38_1_4_115	MW-28	Appendix IV	Lead	mg/L	10	0	0%	2024-04-07 to 2026-08-12	Gamma; Lognormal; Normal	Gamma	0.00620	0.00280	0.000340	0.0250	0.00798	1.29	1.81
38_1_4_116	MW-28	Appendix IV	Lithium	mg/L	10	0	0%	2024-04-07 to 2026-08-12	Gamma; Lognormal; Normal	Gamma	0.0839	0.0840	0.00460	0.150	0.0534	0.637	-0.192
38_1_4_117	MW-28	Appendix IV	Mercury	ng/L	10	3	30%	2024-04-07 to 2026-08-12	Gamma; Lognormal	Gamma	80.9	34.5	0.550	240	89.2	1.10	0.697
38_1_4_118	MW-28	Appendix IV	Molybdenum	mg/L	10	0	0%	2024-04-07 to 2026-08-12	Gamma; Lognormal; Normal	Normal	0.00335	0.00240	0.000540	0.00870	0.00249	0.742	1.09
38_1_4_121	MW-28	Appendix IV	Radium 226 and 228	pCi/L	9	2	22%	2024-04-07 to 2026-08-12	Nonparametric	Nonparametric	0.925	0.842	0.700	1.26	0.208	0.225	0.949
38_1_4_122	MW-28	Appendix IV	Selenium	mg/L	10	0	0%	2024-04-07 to 2026-08-12	Nonparametric	Nonparametric	0.000449	0.000295	0.000240	0.00170	0.000443	0.988	3.06
38_1_4_125	MW-28	Appendix IV	Thallium	mg/L	10	10	100%	2024-04-07 to 2026-08-12		Nonparametric	0.0000750	0.0000750	0.0000750	0.0000750	0	0	NA
38_1_5_111	MW-28	Part 115	Copper	mg/L	10	1	10%	2024-04-07 to 2026-08-12	Gamma; Lognormal	Gamma	0.00230	0.00110	0.000200	0.00980	0.00298	1.29	2.10
38_1_5_114	MW-28	Part 115	Iron	mg/L	10	0	0%	2024-04-07 to 2026-08-12	Normal	Normal	32.3	38.0	1.50	47.0	15.7	0.486	-1.14
38_1_5_119	MW-28	Part 115	Nickel	mg/L	10	0	0%	2024-04-07 to 2026-08-12	Gamma; Lognormal; Normal	Normal	0.00386	0.00385	0.000460	0.00730	0.00253	0.656	0.0688
38_1_5_123	MW-28	Part 115	Silver	mg/L	10	10	100%	2024-04-07 to 2026-08-12		Nonparametric	0.0000500	0.0000500	0.0000500	0.0000500	0	0	NA
38_1_5_128	MW-28	Part 115	Vanadium	mg/L	10	2	20%	2024-04-07 to 2026-08-12	Gamma; Lognormal; Normal	Normal	0.000745	0.000670	0.000500	0.00120	0.000209	0.281	1.35
38_1_5_129	MW-28	Part 115	Zinc	mg/L	10	0	0%	2024-04-07 to 2026-08-12	Gamma; Lognormal; Normal	Gamma	0.0751	0.0550	0.00140	0.280	0.0834	1.11	1.82
40_1_3_105	MW-30	Appendix III	Boron	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Lognormal	Gamma	1.90	1.90	1.30	3.50	0.442	0.233	2.49
40_1_3_107	MW-30	Appendix III	Calcium	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Nonparametric	Nonparametric	493	460	62.0	960	171	0.346	0.466
40_1_3_108	MW-30	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Nonparametric	Nonparametric	407	190	82.0	1200	403	0.991	1.09
40_1_3_112	MW-30	Appendix III	Fluoride	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Nonparametric	Nonparametric	1.08	1.10	0.570	1.40	0.173	0.161	-1.18
40_1_3_120	MW-30	Appendix III	pH (field)	su	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Lognormal; Normal	Normal	7.04	7.05	6.48	7.25	0.176	0.0251	-1.73
40_1_3_124	MW-30	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Normal	Normal	828	855	440	1000	161	0.195	-0.970
40_1_3_126	MW-30	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Nonparametric	Nonparametric	2615	2300	1800	4300	722	0.276	1.38
40_1_4_101	MW-30	Appendix IV	Antimony	mg/L	20	16	80%	2022-11-30 to 2026-08-11		Nonparametric	0.000276	0.000100	0.0000500	0.00120	0.000293	1.06	1.85
40_1_4_102	MW-30	Appendix IV	Arsenic	mg/L	20	2	10%	2022-11-30 to 2026-08-11	Gamma; Lognormal	Gamma	0.00121	0.000605	0.000100	0.00800	0.00177	1.46	3.31
40_1_4_103	MW-30	Appendix IV	Barium	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.0687	0.0640	0.0410	0.110	0.0209	0.305	0.621
40_1_4_104	MW-30	Appendix IV	Beryllium	mg/L	20	16	80%	2022-11-30 to 2026-08-11		Nonparametric	0.0000819	0.0000520	0.0000520	0.000260	0.0000637	0.777	2.49
40_1_4_106	MW-30	Appendix IV	Cadmium	mg/L	20	19	95%	2022-11-30 to 2026-08-11		Nonparametric	0.000135	0.0000750	0.0000320	0.000380	0.000123	0.910	1.41
40_1_4_109	MW-30	Appendix IV	Chromium, Total	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.00919	0.00840	0.00310	0.0230	0.00450	0.490	1.47
40_1_4_110	MW-30	Appendix IV	Cobalt	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Nonparametric	Nonparametric	0.00367	0.00103	0.000380	0.0460	0.0101	2.74	4.34
40_1_4_113	MW-30	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Nonparametric	Nonparametric	1.08	1.10	0.570	1.40	0.173	0.161	-1.18
40_1_4_115	MW-30	Appendix IV	Lead	mg/L	20	18	90%	2022-11-30 to 2026-08-11		Nonparametric	0.00342	0.000500	0.000100	0.0580	0.0129	3.76	4.46
40_1_4_116	MW-30	Appendix IV	Lithium	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.139	0.125	0.0860	0.270	0.0406	0.293	1.89
40_1_4_117	MW-30	Appendix IV	Mercury	ng/L	20	18	90%	2022-11-30 to 2026-08-11		Nonparametric	124	160	0.160	390	97.2	0.787	0.527
40_1_4_118	MW-30	Appendix IV	Molybdenum	mg/L	20	3	15%	2022-11-30 to 2026-08-11	Nonparametric	Nonparametric	0.00407	0.00130	0.000320	0.0320	0.00772	1.90	3.13
40_1_4_121	MW-30	Appendix IV	Radium 226 and 228	pCi/L	20	11	55%	2022-11-30 to 2026-08-11	Gamma; Lognormal; Normal	Nonparametric	0.703	0.677	0.445	1.12	0.177	0.251	0.590
40_1_4_122	MW-30	Appendix IV	Selenium	mg/L	20	7	35%	2022-11-30 to 2026-08-11	Nonparametric	Nonparametric	0.000304	0.000185	0.000100	0.00150	0.000360	1.18	2.70
40_1_4_125	MW-30	Appendix IV	Thallium	mg/L	20	20	100%	2022-11-30 to 2026-08-11		Nonparametric	0.000258	0.000380	0.0000750	0.000380	0.000153	0.594	-0.442
40_1_5_111	MW-30	Part 115	Copper	mg/L	20	14	70%	2022-11-30 to 2026-08-11	Nonparametric	Nonparametric	0.000951	0.000200	0.000200	0.0130	0.00285	2.99	4.42
40_1_5_114	MW-30	Part 115	Iron	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Lognormal	Gamma	3.79	2.70	0.870	17.0	3.67	0.969	2.75
40_1_5_119	MW-30	Part 115	Nickel	mg/L	20	3	15%	2022-11-30 to 2026-08-11	Nonparametric	Nonparametric	0.00815	0.00180	0.000490	0.110	0.0241	2.96	4.37
40_1_5_123	MW-30	Part 115	Silver	mg/L	20	19	95%	2022-11-30 to 2026-08-11		Nonparametric	0.000103	0.0000500	0.0000500	0.000250	0.0000882	0.852	1.16
40_1_5_128	MW-30	Part 115	Vanadium	mg/L	20	16	80%	2022-11-30 to 2026-08-11		Nonparametric	0.00199	0.000620	0.000280	0.0240	0.00524	2.63	4.32
40_1_5_129	MW-30	Part 115	Zinc	mg/L	20	10	50%	2022-11-30 to 2026-08-11	Gamma; Lognormal	Nonparametric	0.0125	0.00195	0.00110	0.100	0.0263	2.10	2.80

(Table continues on next page)

[a] Non-detects are excluded from goodness-of-fit tests.

Table 1: Summary Statistics, Non-Detects Included *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit[a]	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness
41_1_3_105	MW-31	Appendix III	Boron	mg/L	20	0	0%	2022-12-01 to 2026-08-13	Gamma; Lognormal; Normal	Normal	5.18	4.80	3.60	8.20	1.19	0.231	0.975
41_1_3_107	MW-31	Appendix III	Calcium	mg/L	20	0	0%	2022-12-01 to 2026-08-13	Nonparametric	Nonparametric	180	170	130	330	46.6	0.258	2.14
41_1_3_108	MW-31	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	2022-12-01 to 2026-08-13	Nonparametric	Nonparametric	112	110	87.0	170	22.2	0.198	1.89
41_1_3_112	MW-31	Appendix III	Fluoride	mg/L	20	0	0%	2022-12-01 to 2026-08-13	Nonparametric	Nonparametric	4.38	4.60	2.80	5.20	0.662	0.151	-1.11
41_1_3_120	MW-31	Appendix III	pH (field)	su	20	0	0%	2022-12-01 to 2026-08-13	Gamma; Lognormal; Normal	Normal	7.79	7.80	7.28	8.08	0.175	0.0225	-1.03
41_1_3_124	MW-31	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	2022-12-01 to 2026-08-13	Gamma; Lognormal	Gamma	179	155	19.0	650	140	0.781	2.12
41_1_3_126	MW-31	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	2022-12-01 to 2026-08-13	Nonparametric	Nonparametric	876	810	730	1500	194	0.221	2.44
41_1_4_101	MW-31	Appendix IV	Antimony	mg/L	20	7	35%	2022-12-01 to 2026-08-13	Gamma; Lognormal; Normal	Gamma	0.000331	0.000120	0.0000500	0.00110	0.000369	1.11	1.46
41_1_4_102	MW-31	Appendix IV	Arsenic	mg/L	20	0	0%	2022-12-01 to 2026-08-13	Nonparametric	Nonparametric	0.00223	0.00125	0.000730	0.00910	0.00241	1.08	2.31
41_1_4_103	MW-31	Appendix IV	Barium	mg/L	20	0	0%	2022-12-01 to 2026-08-13	Gamma; Lognormal; Normal	Normal	0.194	0.185	0.0990	0.380	0.0705	0.363	0.995
41_1_4_104	MW-31	Appendix IV	Beryllium	mg/L	20	17	85%	2022-12-01 to 2026-08-13		Nonparametric	0.0000610	0.0000520	0.0000520	0.000100	0.0000183	0.300	1.66
41_1_4_106	MW-31	Appendix IV	Cadmium	mg/L	20	19	95%	2022-12-01 to 2026-08-13		Nonparametric	0.0000647	0.0000750	0.0000320	0.0000840	0.0000195	0.301	-1.21
41_1_4_109	MW-31	Appendix IV	Chromium, Total	mg/L	20	0	0%	2022-12-01 to 2026-08-13	Gamma; Lognormal	Gamma	0.00288	0.00235	0.00170	0.00650	0.00128	0.446	1.60
41_1_4_110	MW-31	Appendix IV	Cobalt	mg/L	20	3	15%	2022-12-01 to 2026-08-13	Lognormal	Lognormal	0.000237	0.000180	0.000100	0.00110	0.000220	0.929	3.49
41_1_4_113	MW-31	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	2022-12-01 to 2026-08-13	Nonparametric	Nonparametric	4.38	4.60	2.80	5.20	0.662	0.151	-1.11
41_1_4_115	MW-31	Appendix IV	Lead	mg/L	20	14	70%	2022-12-01 to 2026-08-13	Gamma; Lognormal; Normal	Nonparametric	0.000198	0.000220	0.000100	0.000450	0.000111	0.559	1.00
41_1_4_116	MW-31	Appendix IV	Lithium	mg/L	20	0	0%	2022-12-01 to 2026-08-13	Gamma; Lognormal	Gamma	0.0545	0.0520	0.0300	0.0950	0.0150	0.275	1.24
41_1_4_117	MW-31	Appendix IV	Mercury	ng/L	20	14	70%	2022-12-01 to 2026-08-13	Gamma; Lognormal; Normal	Nonparametric	113	160	0.710	160	74.4	0.662	-0.945
41_1_4_118	MW-31	Appendix IV	Molybdenum	mg/L	20	0	0%	2022-12-01 to 2026-08-13	Nonparametric	Nonparametric	0.00286	0.00130	0.000400	0.0130	0.00344	1.20	1.99
41_1_4_121	MW-31	Appendix IV	Radium 226 and 228	pCi/L	20	8	40%	2022-12-01 to 2026-08-13	Gamma; Lognormal	Gamma	0.711	0.648	0.482	1.23	0.215	0.302	1.39
41_1_4_122	MW-31	Appendix IV	Selenium	mg/L	20	6	30%	2022-12-01 to 2026-08-13	Nonparametric	Nonparametric	0.00217	0.000220	0.000100	0.0380	0.00844	3.89	4.46
41_1_4_125	MW-31	Appendix IV	Thallium	mg/L	20	19	95%	2022-12-01 to 2026-08-13		Nonparametric	0.0000756	0.0000750	0.0000750	0.0000880	0.00000291	0.0384	4.47
41_1_5_111	MW-31	Part 115	Copper	mg/L	20	10	50%	2022-12-01 to 2026-08-13	Nonparametric	Nonparametric	0.000516	0.000215	0.000200	0.00320	0.000739	1.43	3.03
41_1_5_114	MW-31	Part 115	Iron	mg/L	20	0	0%	2022-12-01 to 2026-08-13	Gamma; Lognormal	Gamma	1.12	0.640	0.120	5.70	1.47	1.31	2.23
41_1_5_119	MW-31	Part 115	Nickel	mg/L	20	10	50%	2022-12-01 to 2026-08-13	Gamma; Lognormal	Nonparametric	0.0583	0.00103	0.000650	0.640	0.151	2.59	3.42
41_1_5_123	MW-31	Part 115	Silver	mg/L	20	20	100%	2022-12-01 to 2026-08-13		Nonparametric	0.0000500	0.0000500	0.0000500	0.0000500	0	0	NA
41_1_5_128	MW-31	Part 115	Vanadium	mg/L	20	12	60%	2022-12-01 to 2026-08-13	Gamma; Lognormal; Normal	Nonparametric	0.000630	0.000620	0.000450	0.000830	0.0000838	0.133	0.153
41_1_5_129	MW-31	Part 115	Zinc	mg/L	20	9	45%	2022-12-01 to 2026-08-13	Gamma; Lognormal; Normal	Gamma	0.00690	0.00150	0.00120	0.0290	0.00920	1.33	1.59
42_1_3_105	MW-32	Appendix III	Boron	mg/L	20	0	0%	2022-11-30 to 2026-08-12	Lognormal	Lognormal	3.74	3.45	2.60	5.70	0.957	0.256	0.899
42_1_3_107	MW-32	Appendix III	Calcium	mg/L	20	0	0%	2022-11-30 to 2026-08-12	Gamma; Lognormal; Normal	Normal	177	175	130	230	28.5	0.161	0.428
42_1_3_108	MW-32	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	2022-11-30 to 2026-08-12	Gamma; Lognormal; Normal	Normal	45.2	46.5	28.0	61.0	7.21	0.159	-0.352
42_1_3_112	MW-32	Appendix III	Fluoride	mg/L	20	0	0%	2022-11-30 to 2026-08-12	Gamma; Lognormal; Normal	Normal	1.46	1.50	1.10	1.90	0.204	0.140	0.106
42_1_3_120	MW-32	Appendix III	pH (field)	su	20	0	0%	2022-11-30 to 2026-08-12	Gamma; Lognormal; Normal	Normal	7.58	7.58	7.20	7.75	0.125	0.0165	-1.61
42_1_3_124	MW-32	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	2022-11-30 to 2026-08-12	Gamma; Lognormal; Normal	Gamma	93.5	75.0	5.90	340	89.4	0.956	1.28
42_1_3_126	MW-32	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	2022-11-30 to 2026-08-12	Gamma; Lognormal; Normal	Normal	700	690	550	870	94.6	0.135	0.105
42_1_4_101	MW-32	Appendix IV	Antimony	mg/L	20	16	80%	2022-11-30 to 2026-08-12		Nonparametric	0.000124	0.000100	0.0000500	0.000700	0.000137	1.11	4.31
42_1_4_102	MW-32	Appendix IV	Arsenic	mg/L	20	0	0%	2022-11-30 to 2026-08-12	Nonparametric	Nonparametric	0.000601	0.000515	0.000380	0.00240	0.000431	0.717	4.21
42_1_4_103	MW-32	Appendix IV	Barium	mg/L	20	0	0%	2022-11-30 to 2026-08-12	Gamma; Lognormal; Normal	Normal	0.608	0.570	0.0590	1.40	0.366	0.602	0.773
42_1_4_104	MW-32	Appendix IV	Beryllium	mg/L	20	19	95%	2022-11-30 to 2026-08-12		Nonparametric	0.0000577	0.0000520	0.0000520	0.000100	0.0000150	0.260	2.59
42_1_4_106	MW-32	Appendix IV	Cadmium	mg/L	20	16	80%	2022-11-30 to 2026-08-12		Nonparametric	0.0000923	0.0000750	0.0000320	0.000360	0.0000777	0.842	2.53
42_1_4_109	MW-32	Appendix IV	Chromium, Total	mg/L	20	0	0%	2022-11-30 to 2026-08-12	Nonparametric	Nonparametric	0.000534	0.000375	0.000310	0.00300	0.000588	1.10	4.29
42_1_4_110	MW-32	Appendix IV	Cobalt	mg/L	20	0	0%	2022-11-30 to 2026-08-12	Nonparametric	Nonparametric	0.000625	0.000435	0.000210	0.00280	0.000621	0.993	2.95

(Table continues on next page)

[a] Non-detects are excluded from goodness-of-fit tests.

Table 1: Summary Statistics, Non-Detects Included *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit[a]	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness
42_1_4_113	MW-32	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	2022-11-30 to 2026-08-12	Gamma; Lognormal; Normal	Normal	1.46	1.50	1.10	1.90	0.204	0.140	0.106
42_1_4_115	MW-32	Appendix IV	Lead	mg/L	20	15	75%	2022-11-30 to 2026-08-12	Lognormal; Normal	Nonparametric	0.000178	0.000110	0.000100	0.000420	0.000107	0.605	1.31
42_1_4_116	MW-32	Appendix IV	Lithium	mg/L	20	0	0%	2022-11-30 to 2026-08-12	Gamma; Lognormal; Normal	Normal	0.132	0.130	0.0940	0.200	0.0318	0.242	0.631
42_1_4_117	MW-32	Appendix IV	Mercury	ng/L	20	15	75%	2022-11-30 to 2026-08-12	Nonparametric	Nonparametric	199	160	0.160	1900	407	2.04	4.22
42_1_4_118	MW-32	Appendix IV	Molybdenum	mg/L	20	0	0%	2022-11-30 to 2026-08-12	Gamma; Lognormal; Normal	Normal	0.00364	0.00360	0.00110	0.00730	0.00139	0.383	0.549
42_1_4_121	MW-32	Appendix IV	Radium 226 and 228	pCi/L	20	9	45%	2022-11-30 to 2026-08-12	Gamma; Lognormal; Normal	Normal	0.655	0.611	0.404	0.985	0.143	0.218	0.704
42_1_4_122	MW-32	Appendix IV	Selenium	mg/L	20	16	80%	2022-11-30 to 2026-08-12		Nonparametric	0.000178	0.000100	0.000100	0.00100	0.000200	1.12	4.00
42_1_4_125	MW-32	Appendix IV	Thallium	mg/L	20	20	100%	2022-11-30 to 2026-08-12		Nonparametric	0.0000750	0.0000750	0.0000750	0.0000750	0	0	NA
42_1_5_111	MW-32	Part 115	Copper	mg/L	20	12	60%	2022-11-30 to 2026-08-12	Nonparametric	Nonparametric	0.00103	0.000200	0.000200	0.0160	0.00353	3.44	4.47
42_1_5_114	MW-32	Part 115	Iron	mg/L	20	0	0%	2022-11-30 to 2026-08-12	Gamma; Lognormal; Normal	Normal	16.6	16.5	11.0	25.0	3.68	0.221	0.432
42_1_5_119	MW-32	Part 115	Nickel	mg/L	20	0	0%	2022-11-30 to 2026-08-12	Nonparametric	Nonparametric	0.00274	0.00100	0.000680	0.0230	0.00527	1.93	3.51
42_1_5_123	MW-32	Part 115	Silver	mg/L	20	20	100%	2022-11-30 to 2026-08-12		Nonparametric	0.0000500	0.0000500	0.0000500	0.0000500	0	0	NA
42_1_5_128	MW-32	Part 115	Vanadium	mg/L	20	20	100%	2022-11-30 to 2026-08-12		Nonparametric	0.000535	0.000620	0.000280	0.000620	0.000151	0.282	-1.25
42_1_5_129	MW-32	Part 115	Zinc	mg/L	20	0	0%	2022-11-30 to 2026-08-12	Nonparametric	Nonparametric	0.0178	0.00415	0.00220	0.0680	0.0224	1.26	1.24
46_1_3_105	MW-36	Appendix III	Boron	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.414	0.410	0.250	0.610	0.130	0.315	0.139
46_1_3_107	MW-36	Appendix III	Calcium	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	68.6	71.0	56.0	81.0	7.41	0.108	-0.247
46_1_3_108	MW-36	Appendix III	Chloride (as Cl)	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	29.5	32.0	15.0	39.0	8.18	0.277	-0.864
46_1_3_112	MW-36	Appendix III	Fluoride	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.682	0.660	0.530	0.920	0.135	0.198	0.914
46_1_3_120	MW-36	Appendix III	pH (field)	su	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	9.08	9.10	7.07	10.4	0.885	0.0975	-1.02
46_1_3_124	MW-36	Appendix III	Sulfate (as SO4)	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	12.2	10.0	5.70	21.0	6.03	0.494	0.498
46_1_3_126	MW-36	Appendix III	Total Dissolved Solids	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	427	435	330	480	46.2	0.108	-0.952
46_1_4_101	MW-36	Appendix IV	Antimony	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Lognormal	Lognormal	0.00121	0.000810	0.000570	0.00290	0.000739	0.612	1.63
46_1_4_102	MW-36	Appendix IV	Arsenic	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Nonparametric	Nonparametric	0.0146	0.0120	0.00710	0.0290	0.00784	0.539	1.51
46_1_4_103	MW-36	Appendix IV	Barium	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.196	0.195	0.130	0.250	0.0414	0.211	-0.102
46_1_4_104	MW-36	Appendix IV	Beryllium	mg/L	10	9	90%	2024-04-08 to 2026-08-11		Nonparametric	0.0000623	0.0000520	0.0000520	0.000100	0.0000200	0.321	1.73
46_1_4_106	MW-36	Appendix IV	Cadmium	mg/L	10	2	20%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.000248	0.000170	0.0000750	0.000820	0.000235	0.947	1.90
46_1_4_109	MW-36	Appendix IV	Chromium, Total	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.00147	0.00120	0.000630	0.00310	0.000712	0.484	1.44
46_1_4_110	MW-36	Appendix IV	Cobalt	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.000203	0.000180	0.000140	0.000280	0.0000517	0.254	0.638
46_1_4_113	MW-36	Appendix IV	Fluoride (App IV)	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.682	0.660	0.530	0.920	0.135	0.198	0.914
46_1_4_115	MW-36	Appendix IV	Lead	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.0170	0.0110	0.00450	0.0510	0.0149	0.876	1.56
46_1_4_116	MW-36	Appendix IV	Lithium	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.00953	0.00960	0.00420	0.0140	0.00311	0.326	-0.389
46_1_4_117	MW-36	Appendix IV	Mercury	ng/L	10	4	40%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	68.2	10.4	3.90	160	79.0	1.16	0.482
46_1_4_118	MW-36	Appendix IV	Molybdenum	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.0262	0.0240	0.0170	0.0420	0.00868	0.331	0.774
46_1_4_121	MW-36	Appendix IV	Radium 226 and 228	pCi/L	9	7	78%	2024-04-08 to 2026-08-11		Nonparametric	0.933	0.930	0.466	1.40	0.246	0.264	0.0645
46_1_4_122	MW-36	Appendix IV	Selenium	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.000595	0.000620	0.000350	0.000900	0.000155	0.261	0.418
46_1_4_125	MW-36	Appendix IV	Thallium	mg/L	10	10	100%	2024-04-08 to 2026-08-11		Nonparametric	0.0000750	0.0000750	0.0000750	0.0000750	0	0	NA
46_1_5_111	MW-36	Part 115	Copper	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.00629	0.00360	0.00180	0.0190	0.00546	0.868	1.60
46_1_5_114	MW-36	Part 115	Iron	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.614	0.480	0.280	1.10	0.296	0.482	0.549
46_1_5_119	MW-36	Part 115	Nickel	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.00579	0.00550	0.00250	0.0110	0.00246	0.424	0.981
46_1_5_123	MW-36	Part 115	Silver	mg/L	10	1	10%	2024-04-08 to 2026-08-11	Gamma; Lognormal	Gamma	0.000152	0.0000935	0.0000500	0.000570	0.000161	1.05	2.32
46_1_5_128	MW-36	Part 115	Vanadium	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.00340	0.00305	0.00240	0.00520	0.00102	0.301	1.21
46_1_5_129	MW-36	Part 115	Zinc	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.0125	0.0111	0.00380	0.0240	0.00761	0.607	0.431

(Table continues on next page)

[a] Non-detects are excluded from goodness-of-fit tests.

Table 1: Summary Statistics, Non-Detects Included *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit[a]	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness
47_1_3_105	MW-37	Appendix III	Boron	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	3.56	3.80	0.900	5.90	1.55	0.435	-0.216
47_1_3_107	MW-37	Appendix III	Calcium	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	147	140	110	200	25	0.170	0.748
47_1_3_108	MW-37	Appendix III	Chloride (as Cl)	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	17.1	15.0	3.00	40.0	11.2	0.653	0.847
47_1_3_112	MW-37	Appendix III	Fluoride	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.504	0.500	0.390	0.630	0.0821	0.163	0.0788
47_1_3_120	MW-37	Appendix III	pH (field)	su	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	7.31	7.26	7.10	7.56	0.161	0.0221	0.327
47_1_3_124	MW-37	Appendix III	Sulfate (as SO4)	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	208	220	110	320	73.3	0.352	-0.156
47_1_3_126	MW-37	Appendix III	Total Dissolved Solids	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	707	710	530	840	97.6	0.138	-0.395
47_1_4_101	MW-37	Appendix IV	Antimony	mg/L	10	1	10%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.000350	0.000200	0.000100	0.00120	0.000341	0.974	2.07
47_1_4_102	MW-37	Appendix IV	Arsenic	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.000648	0.000625	0.000460	0.00110	0.000187	0.289	1.65
47_1_4_103	MW-37	Appendix IV	Barium	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.0612	0.0615	0.0350	0.0980	0.0204	0.334	0.417
47_1_4_104	MW-37	Appendix IV	Beryllium	mg/L	10	9	90%	2024-04-08 to 2026-08-11		Nonparametric	0.0000640	0.0000520	0.0000520	0.000100	0.0000204	0.319	1.36
47_1_4_106	MW-37	Appendix IV	Cadmium	mg/L	10	5	50%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Nonparametric	0.0000955	0.0000825	0.0000750	0.000130	0.0000243	0.255	0.547
47_1_4_109	MW-37	Appendix IV	Chromium, Total	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Lognormal	Lognormal	0.000502	0.000345	0.000220	0.00150	0.000399	0.796	2.12
47_1_4_110	MW-37	Appendix IV	Cobalt	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.000488	0.000475	0.000250	0.000760	0.000172	0.352	0.423
47_1_4_113	MW-37	Appendix IV	Fluoride (App IV)	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.504	0.500	0.390	0.630	0.0821	0.163	0.0788
47_1_4_115	MW-37	Appendix IV	Lead	mg/L	10	2	20%	2024-04-08 to 2026-08-11	Gamma; Lognormal	Gamma	0.00131	0.000170	0.000100	0.0100	0.00307	2.35	3.09
47_1_4_116	MW-37	Appendix IV	Lithium	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.0184	0.0175	0.00930	0.0370	0.00855	0.465	1.11
47_1_4_117	MW-37	Appendix IV	Mercury	ng/L	10	4	40%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	65.5	4.65	1.10	160	81.3	1.24	0.483
47_1_4_118	MW-37	Appendix IV	Molybdenum	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.0105	0.00945	0.00640	0.0180	0.00388	0.369	0.805
47_1_4_121	MW-37	Appendix IV	Radium 226 and 228	pCi/L	10	5	50%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Nonparametric	0.711	0.701	0.536	0.960	0.161	0.227	0.468
47_1_4_122	MW-37	Appendix IV	Selenium	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal	Gamma	0.00238	0.00110	0.000470	0.00950	0.00281	1.18	2.16
47_1_4_125	MW-37	Appendix IV	Thallium	mg/L	10	9	90%	2024-04-08 to 2026-08-11		Nonparametric	0.0000764	0.0000750	0.0000750	0.0000890	0.00000443	0.0579	3.16
47_1_5_111	MW-37	Part 115	Copper	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal	Gamma	0.0135	0.0125	0.00520	0.0410	0.0103	0.764	2.48
47_1_5_114	MW-37	Part 115	Iron	mg/L	10	1	10%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Gamma	1.07	0.530	0.0260	3.40	1.23	1.15	0.801
47_1_5_119	MW-37	Part 115	Nickel	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.00333	0.00335	0.00170	0.00520	0.00112	0.337	0.000557
47_1_5_123	MW-37	Part 115	Silver	mg/L	10	9	90%	2024-04-08 to 2026-08-11		Nonparametric	0.0000620	0.0000500	0.0000500	0.000170	0.0000379	0.612	3.16
47_1_5_128	MW-37	Part 115	Vanadium	mg/L	10	5	50%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Nonparametric	0.000523	0.000620	0.000280	0.000730	0.000166	0.318	-0.453
47_1_5_129	MW-37	Part 115	Zinc	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.0175	0.0170	0.00970	0.0280	0.00649	0.371	0.673
48_2_3_105	MW-38	Appendix III	Boron	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Normal	Gamma	1.45	1.45	0.0220	3.00	0.935	0.643	0.0424
48_2_3_107	MW-38	Appendix III	Calcium	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Nonparametric	Nonparametric	193	93.5	61.0	630	214	1.11	1.75
48_2_3_108	MW-38	Appendix III	Chloride (as Cl)	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	33.5	32.5	10.0	58.0	18.3	0.547	0.0358
48_2_3_112	MW-38	Appendix III	Fluoride	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.940	0.855	0.590	1.80	0.356	0.378	1.72
48_2_3_120	MW-38	Appendix III	pH (field)	su	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	9.76	9.20	8.33	13.0	1.37	0.140	1.80
48_2_3_124	MW-38	Appendix III	Sulfate (as SO4)	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Normal	Normal	145	145	15.0	280	79.5	0.549	-0.0711
48_2_3_126	MW-38	Appendix III	Total Dissolved Solids	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	731	600	350	1800	433	0.592	1.88
48_2_4_101	MW-38	Appendix IV	Antimony	mg/L	10	2	20%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.00112	0.000890	0.000100	0.00300	0.000873	0.783	1.10
48_2_4_102	MW-38	Appendix IV	Arsenic	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.00447	0.00415	0.000570	0.0100	0.00272	0.608	0.758
48_2_4_103	MW-38	Appendix IV	Barium	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal	Gamma	0.143	0.0915	0.0360	0.570	0.157	1.10	2.70
48_2_4_104	MW-38	Appendix IV	Beryllium	mg/L	10	7	70%	2024-04-08 to 2026-08-11		Nonparametric	0.000107	0.0000535	0.0000520	0.000500	0.000139	1.30	3.07
48_2_4_106	MW-38	Appendix IV	Cadmium	mg/L	10	4	40%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Nonparametric	0.000242	0.000155	0.0000750	0.000550	0.000186	0.769	0.660
48_2_4_109	MW-38	Appendix IV	Chromium, Total	mg/L	10	1	10%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.00741	0.00580	0.00100	0.0160	0.00502	0.678	0.490
48_2_4_110	MW-38	Appendix IV	Cobalt	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Lognormal	Lognormal	0.000776	0.000540	0.000250	0.00310	0.000840	1.08	2.83

(Table continues on next page)

[a] Non-detects are excluded from goodness-of-fit tests.

Table 1: Summary Statistics, Non-Detects Included *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit[a]	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness
48_2_4_113	MW-38	Appendix IV	Fluoride (App IV)	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.940	0.855	0.590	1.80	0.356	0.378	1.72
48_2_4_115	MW-38	Appendix IV	Lead	mg/L	10	1	10%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Gamma	0.0284	0.0124	0.000500	0.0860	0.0324	1.14	1.03
48_2_4_116	MW-38	Appendix IV	Lithium	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.108	0.109	0.0470	0.200	0.0438	0.406	0.710
48_2_4_117	MW-38	Appendix IV	Mercury	ng/L	10	4	40%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	77.2	31.0	9.30	160	71.6	0.927	0.450
48_2_4_118	MW-38	Appendix IV	Molybdenum	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.0132	0.0114	0.00100	0.0250	0.00849	0.641	0.344
48_2_4_121	MW-38	Appendix IV	Radium 226 and 228	pCi/L	9	5	56%	2024-04-08 to 2026-08-11		Nonparametric	1.34	1.08	0.468	2.65	0.682	0.509	0.777
48_2_4_122	MW-38	Appendix IV	Selenium	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.000892	0.000805	0.000120	0.00200	0.000533	0.597	0.924
48_2_4_125	MW-38	Appendix IV	Thallium	mg/L	10	10	100%	2024-04-08 to 2026-08-11		Nonparametric	0.000136	0.0000750	0.0000750	0.000380	0.000129	0.946	1.78
48_2_5_111	MW-38	Part 115	Copper	mg/L	10	1	10%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Gamma	0.0114	0.00540	0.000200	0.0310	0.0113	0.994	0.732
48_2_5_114	MW-38	Part 115	Iron	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Gamma	0.822	0.450	0.0320	3.30	0.979	1.19	2.08
48_2_5_119	MW-38	Part 115	Nickel	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal	Gamma	0.00782	0.00600	0.000710	0.0270	0.00735	0.939	2.27
48_2_5_123	MW-38	Part 115	Silver	mg/L	10	6	60%	2024-04-08 to 2026-08-11		Nonparametric	0.000110	0.0000575	0.0000500	0.000250	0.0000775	0.708	0.819
48_2_5_128	MW-38	Part 115	Vanadium	mg/L	10	2	20%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.00786	0.00735	0.000280	0.0150	0.00512	0.651	-0.00758
48_2_5_129	MW-38	Part 115	Zinc	mg/L	10	1	10%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.0158	0.0150	0.000480	0.0450	0.0135	0.853	1.07

[a] Non-detects are excluded from goodness-of-fit tests.

Table 2: Summary Statistics, Non-Detects Excluded

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness
11_2_3_105	MW-01R	Appendix III	Boron	mg/L	20	0	0%	2022-11-29 to 2026-08-11	Gamma; Lognormal; Normal	Normal	109	110	38.0	160	36.6	0.334	-0.349
11_2_3_107	MW-01R	Appendix III	Calcium	mg/L	20	0	0%	2022-11-29 to 2026-08-11	Gamma; Lognormal; Normal	Normal	237	220	130	420	83.4	0.352	0.856
11_2_3_108	MW-01R	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	2022-11-29 to 2026-08-11	Gamma; Lognormal; Normal	Normal	125	130	46.0	210	46.7	0.375	-0.269
11_2_3_112	MW-01R	Appendix III	Fluoride	mg/L	20	0	0%	2022-11-29 to 2026-08-11	Normal	Normal	12	13.5	4.80	17.0	3.54	0.296	-0.547
11_2_3_120	MW-01R	Appendix III	pH (field)	su	20	0	0%	2022-11-29 to 2026-08-11	Nonparametric	Nonparametric	7.62	7.72	6.02	7.81	0.387	0.0507	-4.11
11_2_3_124	MW-01R	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	2022-11-29 to 2026-08-11	Gamma; Normal	Gamma	438	390	8.80	1000	309	0.706	0.409
11_2_3_126	MW-01R	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	2022-11-29 to 2026-08-11	Gamma; Lognormal; Normal	Normal	2375	2400	2100	2600	129	0.0544	-0.132
11_2_4_101	MW-01R	Appendix IV	Antimony	mg/L	20	3	15%	2022-11-29 to 2026-08-11	Nonparametric	Nonparametric	0.000531	0.000250	0.000170	0.00290	0.000679	1.28	3.02
11_2_4_102	MW-01R	Appendix IV	Arsenic	mg/L	20	0	0%	2022-11-29 to 2026-08-11	Nonparametric	Nonparametric	0.00156	0.00145	0.000730	0.00410	0.000687	0.439	2.77
11_2_4_103	MW-01R	Appendix IV	Barium	mg/L	20	0	0%	2022-11-29 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.376	0.355	0.200	0.810	0.153	0.407	1.26
11_2_4_104	MW-01R	Appendix IV	Beryllium	mg/L	20	2	10%	2022-11-29 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.000227	0.000200	0.000110	0.000440	0.0000996	0.438	0.613
11_2_4_106	MW-01R	Appendix IV	Cadmium	mg/L	20	13	65%	2022-11-29 to 2026-08-11	Gamma; Lognormal	Nonparametric	0.000482	0.000300	0.0000620	0.00190	0.000645	1.34	2.33
11_2_4_109	MW-01R	Appendix IV	Chromium, Total	mg/L	20	0	0%	2022-11-29 to 2026-08-11	Lognormal	Lognormal	0.00324	0.00200	0.00130	0.0220	0.00450	1.39	4.20
11_2_4_110	MW-01R	Appendix IV	Cobalt	mg/L	20	0	0%	2022-11-29 to 2026-08-11	Nonparametric	Nonparametric	0.00684	0.00120	0.000640	0.0840	0.0188	2.75	4.05
11_2_4_113	MW-01R	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	2022-11-29 to 2026-08-11	Normal	Normal	12	13.5	4.80	17.0	3.54	0.296	-0.547
11_2_4_115	MW-01R	Appendix IV	Lead	mg/L	20	2	10%	2022-11-29 to 2026-08-11	Lognormal	Lognormal	0.00175	0.000845	0.000350	0.00750	0.00195	1.12	2.06
11_2_4_116	MW-01R	Appendix IV	Lithium	mg/L	20	0	0%	2022-11-29 to 2026-08-11	Gamma; Lognormal; Normal	Normal	2.36	2.55	0.770	3.40	0.749	0.318	-0.505
11_2_4_117	MW-01R	Appendix IV	Mercury	ng/L	20	16	80%	2022-11-29 to 2026-08-11		Nonparametric	2.70	1.99	0.520	6.30	2.66	0.986	1.08
11_2_4_118	MW-01R	Appendix IV	Molybdenum	mg/L	20	2	10%	2022-11-29 to 2026-08-11	Nonparametric	Nonparametric	0.00138	0.000750	0.000330	0.00580	0.00164	1.20	2.31
11_2_4_121	MW-01R	Appendix IV	Radium 226 and 228	pCi/L	20	13	65%	2022-11-29 to 2026-08-11	Gamma; Lognormal; Normal	Nonparametric	0.984	1.06	0.601	1.28	0.256	0.260	-0.307
11_2_4_122	MW-01R	Appendix IV	Selenium	mg/L	20	0	0%	2022-11-29 to 2026-08-11	Nonparametric	Nonparametric	0.000815	0.000705	0.000300	0.00260	0.000513	0.629	2.76
11_2_5_111	MW-01R	Part 115	Copper	mg/L	20	6	30%	2022-11-29 to 2026-08-11	Nonparametric	Nonparametric	0.000711	0.000385	0.000270	0.00280	0.000716	1.01	2.23
11_2_5_114	MW-01R	Part 115	Iron	mg/L	20	0	0%	2022-11-29 to 2026-08-11	Gamma; Normal	Gamma	0.533	0.525	0.0590	1.40	0.409	0.768	0.520
11_2_5_119	MW-01R	Part 115	Nickel	mg/L	20	0	0%	2022-11-29 to 2026-08-11	Nonparametric	Nonparametric	0.00733	0.00220	0.00120	0.0680	0.0153	2.09	3.66
11_2_5_128	MW-01R	Part 115	Vanadium	mg/L	20	2	10%	2022-11-29 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.00244	0.00205	0.000670	0.00470	0.00126	0.519	0.520
11_2_5_129	MW-01R	Part 115	Zinc	mg/L	20	3	15%	2022-11-29 to 2026-08-11	Gamma; Lognormal	Gamma	0.0197	0.00850	0.00120	0.140	0.0342	1.73	3.07
12_2_3_105	MW-02	Appendix III	Boron	mg/L	20	0	0%	2022-11-28 to 2026-08-12	Lognormal	Lognormal	108	100	59.0	190	33.4	0.309	1.25
12_2_3_107	MW-02	Appendix III	Calcium	mg/L	20	0	0%	2022-11-28 to 2026-08-12	Gamma; Lognormal; Normal	Normal	195	195	140	240	21.9	0.112	-0.452
12_2_3_108	MW-02	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	2022-11-28 to 2026-08-12	Nonparametric	Nonparametric	141	145	67.0	160	19.8	0.140	-2.98
12_2_3_112	MW-02	Appendix III	Fluoride	mg/L	20	0	0%	2022-11-28 to 2026-08-12	Nonparametric	Nonparametric	10.4	10.0	4.50	16.0	2.49	0.239	0.316
12_2_3_120	MW-02	Appendix III	pH (field)	su	20	0	0%	2022-11-28 to 2026-08-12	Gamma; Lognormal; Normal	Normal	7.20	7.17	7.06	7.45	0.0993	0.0138	0.903
12_2_3_124	MW-02	Appendix III	Sulfate (as SO4)	mg/L	20	10	50%	2022-11-28 to 2026-08-12	Nonparametric	Nonparametric	6.78	1.70	0.860	51.0	15.6	2.30	3.13
12_2_3_126	MW-02	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	2022-11-28 to 2026-08-12	Gamma; Lognormal; Normal	Normal	1945	1900	1600	2600	267	0.137	1.05
12_2_4_101	MW-02	Appendix IV	Antimony	mg/L	20	3	15%	2022-11-28 to 2026-08-12	Gamma; Lognormal	Gamma	0.000234	0.000190	0.000110	0.000630	0.000129	0.553	2.12
12_2_4_102	MW-02	Appendix IV	Arsenic	mg/L	20	0	0%	2022-11-28 to 2026-08-12	Normal	Normal	0.00731	0.00755	0.000440	0.0120	0.00242	0.331	-0.873
12_2_4_103	MW-02	Appendix IV	Barium	mg/L	20	0	0%	2022-11-28 to 2026-08-12	Gamma; Lognormal; Normal	Normal	0.473	0.475	0.320	0.730	0.0909	0.192	0.659
12_2_4_104	MW-02	Appendix IV	Beryllium	mg/L	20	2	10%	2022-11-28 to 2026-08-12	Gamma; Lognormal; Normal	Normal	0.000276	0.000280	0.000120	0.000520	0.000106	0.383	0.682
12_2_4_106	MW-02	Appendix IV	Cadmium	mg/L	20	14	70%	2022-11-28 to 2026-08-12	Lognormal	Nonparametric	0.000138	0.0000780	0.0000410	0.000490	0.000174	1.26	2.38
12_2_4_109	MW-02	Appendix IV	Chromium, Total	mg/L	20	0	0%	2022-11-28 to 2026-08-12	Gamma; Normal	Gamma	0.0408	0.0420	0.000380	0.0680	0.0193	0.473	-0.262
12_2_4_110	MW-02	Appendix IV	Cobalt	mg/L	20	0	0%	2022-11-28 to 2026-08-12	Gamma; Normal	Normal	0.00625	0.00620	0.000240	0.0120	0.00276	0.442	-0.0228
12_2_4_113	MW-02	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	2022-11-28 to 2026-08-12	Nonparametric	Nonparametric	10.4	10.0	4.50	16.0	2.49	0.239	0.316
12_2_4_115	MW-02	Appendix IV	Lead	mg/L	20	1	5%	2022-11-28 to 2026-08-12	Gamma; Lognormal; Normal	Normal	0.00279	0.00230	0.000420	0.00600	0.00170	0.611	0.538
12_2_4_116	MW-02	Appendix IV	Lithium	mg/L	20	0	0%	2022-11-28 to 2026-08-12	Gamma; Lognormal	Gamma	1.48	1.45	0.870	2.50	0.400	0.270	1.18

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Table 2: Summary Statistics, Non-Detects Excluded *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness
12_2_4_117	MW-02	Appendix IV	Mercury	ng/L	20	14	70%	2022-11-28 to 2026-08-12	Gamma; Lognormal; Normal	Nonparametric	2.47	1.95	1.10	5.40	1.64	0.664	1.40
12_2_4_118	MW-02	Appendix IV	Molybdenum	mg/L	20	0	0%	2022-11-28 to 2026-08-12	Gamma; Lognormal	Gamma	0.00818	0.00620	0.000910	0.0290	0.00602	0.736	2.40
12_2_4_121	MW-02	Appendix IV	Radium 226 and 228	pCi/L	19	6	32%	2022-11-28 to 2026-08-12	Gamma; Lognormal; Normal	Normal	1.51	1.25	0.708	3.35	0.745	0.494	1.36
12_2_4_122	MW-02	Appendix IV	Selenium	mg/L	20	0	0%	2022-11-28 to 2026-08-12	Gamma; Lognormal; Normal	Normal	0.00129	0.00120	0.000500	0.00230	0.000487	0.376	0.433
12_2_4_125	MW-02	Appendix IV	Thallium	mg/L	20	19	95%	2022-11-28 to 2026-08-12		Nonparametric	0.000620	0.000620	0.000620	0.000620	NA	NA	NA
12_2_5_111	MW-02	Part 115	Copper	mg/L	20	0	0%	2022-11-28 to 2026-08-12	Gamma; Lognormal; Normal	Normal	0.00208	0.00190	0.000230	0.00470	0.00116	0.561	0.855
12_2_5_114	MW-02	Part 115	Iron	mg/L	20	0	0%	2022-11-28 to 2026-08-12	Gamma; Lognormal; Normal	Normal	23.7	23.5	18.0	31.0	3.83	0.161	0.306
12_2_5_119	MW-02	Part 115	Nickel	mg/L	20	0	0%	2022-11-28 to 2026-08-12	Nonparametric	Nonparametric	0.0267	0.0225	0.000930	0.0740	0.0163	0.608	1.44
12_2_5_128	MW-02	Part 115	Vanadium	mg/L	20	1	5%	2022-11-28 to 2026-08-12	Gamma; Lognormal; Normal	Normal	0.00398	0.00360	0.00120	0.00690	0.00179	0.451	0.00118
12_2_5_129	MW-02	Part 115	Zinc	mg/L	20	0	0%	2022-11-28 to 2026-08-12	Nonparametric	Nonparametric	0.0113	0.00345	0.00160	0.0440	0.0137	1.21	1.33
13_2_3_105	MW-03	Appendix III	Boron	mg/L	20	0	0%	2022-11-28 to 2026-08-13	Gamma; Lognormal; Normal	Normal	4.03	4.10	3.30	4.50	0.351	0.0871	-0.529
13_2_3_107	MW-03	Appendix III	Calcium	mg/L	20	0	0%	2022-11-28 to 2026-08-13	Gamma; Lognormal; Normal	Normal	354	350	290	430	38.0	0.107	0.244
13_2_3_108	MW-03	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	2022-11-28 to 2026-08-13	Gamma; Lognormal; Normal	Normal	146	135	72.0	300	55.1	0.379	1.32
13_2_3_112	MW-03	Appendix III	Fluoride	mg/L	20	0	0%	2022-11-28 to 2026-08-13	Nonparametric	Nonparametric	0.706	0.620	0.520	1.60	0.233	0.330	3.23
13_2_3_120	MW-03	Appendix III	pH (field)	su	20	0	0%	2022-11-28 to 2026-08-13	Gamma; Lognormal; Normal	Normal	7.36	7.33	7.20	7.59	0.0899	0.0122	0.758
13_2_3_124	MW-03	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	2022-11-28 to 2026-08-13	Gamma; Lognormal; Normal	Gamma	299	275	29.0	760	222	0.742	0.549
13_2_3_126	MW-03	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	2022-11-28 to 2026-08-13	Nonparametric	Nonparametric	1965	1900	1600	2300	278	0.141	0.141
13_2_4_101	MW-03	Appendix IV	Antimony	mg/L	20	14	70%	2022-11-28 to 2026-08-13	Gamma; Lognormal	Nonparametric	0.000171	0.000120	0.0000870	0.000450	0.000139	0.811	2.25
13_2_4_102	MW-03	Appendix IV	Arsenic	mg/L	20	0	0%	2022-11-28 to 2026-08-13	Gamma; Lognormal; Normal	Normal	0.000893	0.000890	0.000490	0.00140	0.000267	0.299	0.124
13_2_4_103	MW-03	Appendix IV	Barium	mg/L	20	0	0%	2022-11-28 to 2026-08-13	Gamma; Normal	Normal	0.353	0.365	0.130	0.500	0.0781	0.221	-0.983
13_2_4_104	MW-03	Appendix IV	Beryllium	mg/L	20	13	65%	2022-11-28 to 2026-08-13	Lognormal	Nonparametric	0.0000914	0.0000720	0.0000530	0.000180	0.0000517	0.565	1.24
13_2_4_106	MW-03	Appendix IV	Cadmium	mg/L	20	19	95%	2022-11-28 to 2026-08-13		Nonparametric	0.000110	0.000110	0.000110	0.000110	NA	NA	NA
13_2_4_109	MW-03	Appendix IV	Chromium, Total	mg/L	20	0	0%	2022-11-28 to 2026-08-13	Gamma; Lognormal; Normal	Normal	0.00432	0.00385	0.00280	0.00730	0.00121	0.279	0.898
13_2_4_110	MW-03	Appendix IV	Cobalt	mg/L	20	0	0%	2022-11-28 to 2026-08-13	Gamma; Lognormal; Normal	Normal	0.000746	0.000655	0.000370	0.00130	0.000294	0.394	0.736
13_2_4_113	MW-03	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	2022-11-28 to 2026-08-13	Nonparametric	Nonparametric	0.706	0.620	0.520	1.60	0.233	0.330	3.23
13_2_4_115	MW-03	Appendix IV	Lead	mg/L	20	19	95%	2022-11-28 to 2026-08-13		Nonparametric	0.000220	0.000220	0.000220	0.000220	NA	NA	NA
13_2_4_116	MW-03	Appendix IV	Lithium	mg/L	20	0	0%	2022-11-28 to 2026-08-13	Gamma; Lognormal	Gamma	0.0364	0.0340	0.0260	0.0650	0.00915	0.251	1.83
13_2_4_117	MW-03	Appendix IV	Mercury	ng/L	20	15	75%	2022-11-28 to 2026-08-13	Nonparametric	Nonparametric	48.4	0.580	0.390	240	107	2.21	2.24
13_2_4_118	MW-03	Appendix IV	Molybdenum	mg/L	20	14	70%	2022-11-28 to 2026-08-13	Gamma; Lognormal; Normal	Nonparametric	0.000855	0.000785	0.000390	0.00140	0.000354	0.414	0.456
13_2_4_121	MW-03	Appendix IV	Radium 226 and 228	pCi/L	19	3	16%	2022-11-28 to 2026-08-13	Gamma; Lognormal; Normal	Normal	1.02	0.913	0.540	1.92	0.388	0.380	1.24
13_2_4_122	MW-03	Appendix IV	Selenium	mg/L	20	3	15%	2022-11-28 to 2026-08-13	Gamma; Lognormal; Normal	Normal	0.000398	0.000400	0.000170	0.000620	0.000102	0.258	0.108
13_2_4_125	MW-03	Appendix IV	Thallium	mg/L	20	19	95%	2022-11-28 to 2026-08-13		Nonparametric	0.000180	0.000180	0.000180	0.000180	NA	NA	NA
13_2_5_111	MW-03	Part 115	Copper	mg/L	20	9	45%	2022-11-28 to 2026-08-13	Lognormal	Lognormal	0.000483	0.000300	0.000220	0.00100	0.000301	0.623	0.899
13_2_5_114	MW-03	Part 115	Iron	mg/L	20	0	0%	2022-11-28 to 2026-08-13	Gamma; Lognormal	Gamma	1.19	0.705	0.0980	5.90	1.45	1.21	2.21
13_2_5_119	MW-03	Part 115	Nickel	mg/L	20	1	5%	2022-11-28 to 2026-08-13	Nonparametric	Nonparametric	0.00208	0.00130	0.000850	0.0150	0.00315	1.52	4.27
13_2_5_128	MW-03	Part 115	Vanadium	mg/L	20	9	45%	2022-11-28 to 2026-08-13	Gamma; Lognormal; Normal	Normal	0.00145	0.00140	0.000950	0.00220	0.000340	0.234	0.922
13_2_5_129	MW-03	Part 115	Zinc	mg/L	20	9	45%	2022-11-28 to 2026-08-13	Normal	Nonparametric	0.0133	0.0180	0.000590	0.0250	0.00995	0.751	-0.287
14_2_3_105	MW-04	Appendix III	Boron	mg/L	20	0	0%	2022-11-28 to 2026-08-13	Nonparametric	Nonparametric	3.62	3.95	0.680	4.70	1.00	0.276	-1.76
14_2_3_107	MW-04	Appendix III	Calcium	mg/L	20	0	0%	2022-11-28 to 2026-08-13	Gamma; Lognormal; Normal	Normal	362	355	250	560	61.6	0.170	1.57
14_2_3_108	MW-04	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	2022-11-28 to 2026-08-13	Gamma; Normal	Normal	130	125	11.0	300	79.4	0.609	0.188
14_2_3_112	MW-04	Appendix III	Fluoride	mg/L	20	0	0%	2022-11-28 to 2026-08-13	Gamma; Lognormal; Normal	Normal	1.45	1.40	0.760	2.30	0.344	0.236	0.797
14_2_3_120	MW-04	Appendix III	pH (field)	su	20	0	0%	2022-11-28 to 2026-08-13	Normal	Normal	7.29	7.34	6.78	7.66	0.184	0.0252	-0.994
14_2_3_124	MW-04	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	2022-11-28 to 2026-08-13	Normal	Normal	598	610	1.80	1100	216	0.361	-0.496

(Table continues on next page)

Table 2: Summary Statistics, Non-Detects Excluded *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness
14_2_3_126	MW-04	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	2022-11-28 to 2026-08-13	Normal	Normal	1800	1800	1100	2200	308	0.171	-0.890
14_2_4_101	MW-04	Appendix IV	Antimony	mg/L	20	14	70%	2022-11-28 to 2026-08-13	Gamma; Lognormal; Normal	Nonparametric	0.000270	0.000275	0.0000710	0.000460	0.000177	0.656	-0.0298
14_2_4_102	MW-04	Appendix IV	Arsenic	mg/L	20	0	0%	2022-11-28 to 2026-08-13	Nonparametric	Nonparametric	0.00130	0.000980	0.000470	0.00590	0.00118	0.907	3.49
14_2_4_103	MW-04	Appendix IV	Barium	mg/L	20	0	0%	2022-11-28 to 2026-08-13	Nonparametric	Nonparametric	0.130	0.120	0.0250	0.460	0.0828	0.638	3.56
14_2_4_104	MW-04	Appendix IV	Beryllium	mg/L	20	17	85%	2022-11-28 to 2026-08-13		Nonparametric	0.0000710	0.0000660	0.0000540	0.0000930	0.0000200	0.281	1.06
14_2_4_109	MW-04	Appendix IV	Chromium, Total	mg/L	20	0	0%	2022-11-28 to 2026-08-13	Gamma; Lognormal; Normal	Normal	0.00332	0.00295	0.000740	0.00600	0.00145	0.437	-0.0151
14_2_4_110	MW-04	Appendix IV	Cobalt	mg/L	20	0	0%	2022-11-28 to 2026-08-13	Lognormal	Lognormal	0.000589	0.000355	0.000110	0.00250	0.000582	0.990	2.49
14_2_4_113	MW-04	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	2022-11-28 to 2026-08-13	Gamma; Lognormal; Normal	Normal	1.45	1.40	0.760	2.30	0.344	0.236	0.797
14_2_4_115	MW-04	Appendix IV	Lead	mg/L	20	16	80%	2022-11-28 to 2026-08-13		Nonparametric	0.000243	0.000210	0.000130	0.000420	0.000131	0.539	1.08
14_2_4_116	MW-04	Appendix IV	Lithium	mg/L	20	0	0%	2022-11-28 to 2026-08-13	Gamma; Lognormal; Normal	Normal	0.0575	0.0605	0.0310	0.0740	0.0134	0.234	-0.546
14_2_4_117	MW-04	Appendix IV	Mercury	ng/L	20	16	80%	2022-11-28 to 2026-08-13		Nonparametric	1.07	0.595	0.210	2.90	1.24	1.15	1.81
14_2_4_118	MW-04	Appendix IV	Molybdenum	mg/L	20	2	10%	2022-11-28 to 2026-08-13	Nonparametric	Nonparametric	0.00287	0.00125	0.000370	0.0130	0.00397	1.38	1.94
14_2_4_121	MW-04	Appendix IV	Radium 226 and 228	pCi/L	20	7	35%	2022-11-28 to 2026-08-13	Gamma; Lognormal; Normal	Normal	1.05	1.08	0.634	1.55	0.343	0.325	-0.00271
14_2_4_122	MW-04	Appendix IV	Selenium	mg/L	20	5	25%	2022-11-28 to 2026-08-13	Lognormal	Lognormal	0.000306	0.000210	0.000140	0.00120	0.000264	0.862	3.13
14_2_5_111	MW-04	Part 115	Copper	mg/L	20	14	70%	2022-11-28 to 2026-08-13	Gamma; Lognormal; Normal	Nonparametric	0.000625	0.000555	0.000270	0.00110	0.000381	0.609	0.251
14_2_5_114	MW-04	Part 115	Iron	mg/L	20	0	0%	2022-11-28 to 2026-08-13	Nonparametric	Nonparametric	5.07	5.55	0.190	6.80	1.83	0.361	-1.76
14_2_5_119	MW-04	Part 115	Nickel	mg/L	20	0	0%	2022-11-28 to 2026-08-13	Gamma; Normal	Normal	0.0127	0.0130	0.00190	0.0220	0.00570	0.449	-0.372
14_2_5_128	MW-04	Part 115	Vanadium	mg/L	20	10	50%	2022-11-28 to 2026-08-13	Gamma; Lognormal; Normal	Nonparametric	0.000832	0.000795	0.000490	0.00120	0.000251	0.302	0.112
14_2_5_129	MW-04	Part 115	Zinc	mg/L	20	10	50%	2022-11-28 to 2026-08-13	Gamma; Lognormal; Normal	Nonparametric	0.00630	0.00510	0.00150	0.0130	0.00446	0.708	0.656
16_1_3_105	MW-06	Appendix III	Boron	mg/L	20	0	0%	2022-11-29 to 2026-08-12	Gamma; Lognormal; Normal	Normal	9.44	9.70	6.40	12.0	1.59	0.168	-0.262
16_1_3_107	MW-06	Appendix III	Calcium	mg/L	20	0	0%	2022-11-29 to 2026-08-12	Gamma; Lognormal; Normal	Normal	240	230	190	310	36	0.150	0.693
16_1_3_108	MW-06	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	2022-11-29 to 2026-08-12	Gamma; Lognormal; Normal	Normal	62.8	58.0	13.0	160	37.5	0.597	0.903
16_1_3_112	MW-06	Appendix III	Fluoride	mg/L	20	0	0%	2022-11-29 to 2026-08-12	Gamma; Lognormal; Normal	Normal	1.25	1.20	0.980	1.70	0.213	0.171	0.565
16_1_3_120	MW-06	Appendix III	pH (field)	su	20	0	0%	2022-11-29 to 2026-08-12	Nonparametric	Nonparametric	7.27	7.29	6.42	7.51	0.223	0.0307	-3.09
16_1_3_124	MW-06	Appendix III	Sulfate (as SO4)	mg/L	20	2	10%	2022-11-29 to 2026-08-12	Gamma; Lognormal	Gamma	20.6	10.3	0.980	100	28.8	1.40	2.38
16_1_3_126	MW-06	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	2022-11-29 to 2026-08-12	Nonparametric	Nonparametric	1184	1200	980	1300	77.2	0.0652	-0.779
16_1_4_101	MW-06	Appendix IV	Antimony	mg/L	20	17	85%	2022-11-29 to 2026-08-12		Nonparametric	0.000235	0.000270	0.0000750	0.000360	0.000146	0.620	-1.02
16_1_4_102	MW-06	Appendix IV	Arsenic	mg/L	20	0	0%	2022-11-29 to 2026-08-12	Gamma; Lognormal; Normal	Normal	0.000674	0.000635	0.000370	0.00100	0.000182	0.270	0.498
16_1_4_103	MW-06	Appendix IV	Barium	mg/L	20	0	0%	2022-11-29 to 2026-08-12	Nonparametric	Nonparametric	1.39	1.40	0.870	1.70	0.190	0.137	-1.35
16_1_4_104	MW-06	Appendix IV	Beryllium	mg/L	20	17	85%	2022-11-29 to 2026-08-12		Nonparametric	0.000133	0.0000570	0.0000520	0.000290	0.000136	1.02	1.73
16_1_4_109	MW-06	Appendix IV	Chromium, Total	mg/L	20	0	0%	2022-11-29 to 2026-08-12	Gamma; Lognormal	Gamma	0.00152	0.00140	0.000950	0.00300	0.000524	0.344	1.44
16_1_4_110	MW-06	Appendix IV	Cobalt	mg/L	20	0	0%	2022-11-29 to 2026-08-12	Nonparametric	Nonparametric	0.000629	0.000455	0.000300	0.00340	0.000667	1.06	4.16
16_1_4_113	MW-06	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	2022-11-29 to 2026-08-12	Gamma; Lognormal; Normal	Normal	1.25	1.20	0.980	1.70	0.213	0.171	0.565
16_1_4_115	MW-06	Appendix IV	Lead	mg/L	20	10	50%	2022-11-29 to 2026-08-12	Gamma; Lognormal; Normal	Nonparametric	0.000225	0.000220	0.000110	0.000350	0.0000833	0.370	0.276
16_1_4_116	MW-06	Appendix IV	Lithium	mg/L	20	0	0%	2022-11-29 to 2026-08-12	Gamma; Lognormal; Normal	Normal	0.172	0.170	0.110	0.230	0.0364	0.211	0.121
16_1_4_117	MW-06	Appendix IV	Mercury	ng/L	20	15	75%	2022-11-29 to 2026-08-12	Gamma; Lognormal; Normal	Nonparametric	0.696	0.700	0.490	0.890	0.186	0.267	-0.0486
16_1_4_118	MW-06	Appendix IV	Molybdenum	mg/L	20	10	50%	2022-11-29 to 2026-08-12	Nonparametric	Nonparametric	0.000815	0.000290	0.000250	0.00510	0.00151	1.85	3.13
16_1_4_121	MW-06	Appendix IV	Radium 226 and 228	pCi/L	20	4	20%	2022-11-29 to 2026-08-12	Gamma; Lognormal	Gamma	0.903	0.837	0.460	1.91	0.367	0.407	1.64
16_1_4_122	MW-06	Appendix IV	Selenium	mg/L	20	5	25%	2022-11-29 to 2026-08-12	Nonparametric	Nonparametric	0.000240	0.000220	0.000160	0.000470	0.0000859	0.358	1.95
16_1_4_125	MW-06	Appendix IV	Thallium	mg/L	20	19	95%	2022-11-29 to 2026-08-12		Nonparametric	0.000170	0.000170	0.000170	0.000170	NA	NA	NA
16_1_5_111	MW-06	Part 115	Copper	mg/L	20	13	65%	2022-11-29 to 2026-08-12	Nonparametric	Nonparametric	0.000753	0.000350	0.000250	0.00330	0.00112	1.49	2.63
16_1_5_114	MW-06	Part 115	Iron	mg/L	20	0	0%	2022-11-29 to 2026-08-12	Gamma; Normal	Normal	15.1	15.5	1.90	31.0	7.35	0.485	0.265
16_1_5_119	MW-06	Part 115	Nickel	mg/L	20	6	30%	2022-11-29 to 2026-08-12	Nonparametric	Nonparametric	0.00114	0.000935	0.000630	0.00380	0.000781	0.684	3.48

(Table continues on next page)

Table 2: Summary Statistics, Non-Detects Excluded *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness
16_1_5_123	MW-06	Part 115	Silver	mg/L	20	19	95%	2022-11-29 to 2026-08-12		Nonparametric	0.000160	0.000160	0.000160	0.000160	NA	NA	NA
16_1_5_128	MW-06	Part 115	Vanadium	mg/L	20	14	70%	2022-11-29 to 2026-08-12	Nonparametric	Nonparametric	0.00112	0.000590	0.000460	0.00390	0.00137	1.22	2.42
16_1_5_129	MW-06	Part 115	Zinc	mg/L	20	2	10%	2022-11-29 to 2026-08-12	Nonparametric	Nonparametric	0.0294	0.00185	0.00120	0.0940	0.0370	1.26	0.686
17_1_3_105	MW-07	Appendix III	Boron	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Nonparametric	Nonparametric	10.8	11.0	6.90	13.0	1.59	0.147	-1.05
17_1_3_107	MW-07	Appendix III	Calcium	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Lognormal; Normal	Normal	148	150	120	170	12.4	0.0838	-0.501
17_1_3_108	MW-07	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Nonparametric	Nonparametric	14.8	14.5	13.0	17.0	1.32	0.0893	0.407
17_1_3_112	MW-07	Appendix III	Fluoride	mg/L	20	4	20%	2022-11-30 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.126	0.140	0.0680	0.220	0.0432	0.342	0.435
17_1_3_120	MW-07	Appendix III	pH (field)	su	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Lognormal; Normal	Normal	6.88	6.88	6.58	7.05	0.113	0.0165	-1.06
17_1_3_124	MW-07	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Lognormal; Normal	Normal	26.1	27.0	15.0	48.0	9.35	0.359	0.518
17_1_3_126	MW-07	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Lognormal; Normal	Normal	668	680	470	750	74.9	0.112	-1.51
17_1_4_101	MW-07	Appendix IV	Antimony	mg/L	20	19	95%	2022-11-30 to 2026-08-11		Nonparametric	0.0000710	0.0000710	0.0000710	0.0000710	NA	NA	NA
17_1_4_102	MW-07	Appendix IV	Arsenic	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.000198	0.000200	0.000100	0.000290	0.0000422	0.213	-0.378
17_1_4_103	MW-07	Appendix IV	Barium	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.358	0.355	0.250	0.430	0.0419	0.117	-0.446
17_1_4_104	MW-07	Appendix IV	Beryllium	mg/L	20	15	75%	2022-11-30 to 2026-08-11	Lognormal	Nonparametric	0.0000716	0.0000620	0.0000550	0.000120	0.0000275	0.384	2.08
17_1_4_109	MW-07	Appendix IV	Chromium, Total	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Lognormal	Gamma	0.000358	0.000335	0.000250	0.000740	0.000104	0.289	2.79
17_1_4_110	MW-07	Appendix IV	Cobalt	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.000961	0.000975	0.000710	0.00130	0.000144	0.150	0.443
17_1_4_113	MW-07	Appendix IV	Fluoride (App IV)	mg/L	20	4	20%	2022-11-30 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.126	0.140	0.0680	0.220	0.0432	0.342	0.435
17_1_4_116	MW-07	Appendix IV	Lithium	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.00636	0.00595	0.00310	0.0100	0.00164	0.258	0.418
17_1_4_117	MW-07	Appendix IV	Mercury	ng/L	20	19	95%	2022-11-30 to 2026-08-11		Nonparametric	0.240	0.240	0.240	0.240	NA	NA	NA
17_1_4_121	MW-07	Appendix IV	Radium 226 and 228	pCi/L	20	2	10%	2022-11-30 to 2026-08-11	Gamma; Lognormal	Gamma	0.967	0.903	0.515	2.36	0.405	0.418	2.50
17_1_4_122	MW-07	Appendix IV	Selenium	mg/L	20	9	45%	2022-11-30 to 2026-08-11	Nonparametric	Nonparametric	0.000130	0.000120	0.000100	0.000230	0.0000385	0.296	2.11
17_1_5_111	MW-07	Part 115	Copper	mg/L	20	15	75%	2022-11-30 to 2026-08-11	Nonparametric	Nonparametric	0.000318	0.000250	0.000210	0.000620	0.000170	0.535	2.15
17_1_5_114	MW-07	Part 115	Iron	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Lognormal; Normal	Normal	17.0	17.0	13.0	22.0	2.70	0.159	0.233
17_1_5_119	MW-07	Part 115	Nickel	mg/L	20	14	70%	2022-11-30 to 2026-08-11	Nonparametric	Nonparametric	0.000287	0.000220	0.000160	0.000710	0.000210	0.733	2.31
17_1_5_128	MW-07	Part 115	Vanadium	mg/L	20	12	60%	2022-11-30 to 2026-08-11	Gamma; Lognormal; Normal	Nonparametric	0.000766	0.000780	0.000590	0.000950	0.000122	0.159	-0.320
17_1_5_129	MW-07	Part 115	Zinc	mg/L	20	10	50%	2022-11-30 to 2026-08-11	Gamma; Lognormal; Normal	Nonparametric	0.0151	0.0160	0.000750	0.0330	0.0116	0.767	0.0795
18_1_3_105	MW-08	Appendix III	Boron	mg/L	20	0	0%	2022-12-01 to 2026-08-12	Gamma; Lognormal; Normal	Normal	6.09	6.55	2.50	9.30	1.77	0.291	-0.287
18_1_3_107	MW-08	Appendix III	Calcium	mg/L	20	0	0%	2022-12-01 to 2026-08-12	Gamma; Lognormal; Normal	Normal	133	130	85.0	160	19.4	0.146	-0.805
18_1_3_108	MW-08	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	2022-12-01 to 2026-08-12	Nonparametric	Nonparametric	44.2	30.0	17.0	160	37.7	0.853	2.10
18_1_3_112	MW-08	Appendix III	Fluoride	mg/L	20	0	0%	2022-12-01 to 2026-08-12	Normal	Normal	0.976	1.00	0.400	1.40	0.267	0.273	-0.688
18_1_3_120	MW-08	Appendix III	pH (field)	su	20	0	0%	2022-12-01 to 2026-08-12	Nonparametric	Nonparametric	7.19	7.25	6.21	7.57	0.275	0.0382	-2.43
18_1_3_124	MW-08	Appendix III	Sulfate (as SO4)	mg/L	20	5	25%	2022-12-01 to 2026-08-12	Gamma; Lognormal; Normal	Gamma	19.9	13.0	0.600	65.0	18.8	0.941	1.12
18_1_3_126	MW-08	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	2022-12-01 to 2026-08-12	Gamma; Lognormal; Normal	Normal	556	550	320	780	112	0.202	0.212
18_1_4_101	MW-08	Appendix IV	Antimony	mg/L	20	12	60%	2022-12-01 to 2026-08-12	Gamma; Lognormal; Normal	Nonparametric	0.000146	0.000135	0.0000540	0.000280	0.0000706	0.483	0.839
18_1_4_102	MW-08	Appendix IV	Arsenic	mg/L	20	0	0%	2022-12-01 to 2026-08-12	Gamma; Normal	Normal	0.0416	0.0445	0.00690	0.0910	0.0185	0.444	0.449
18_1_4_103	MW-08	Appendix IV	Barium	mg/L	20	0	0%	2022-12-01 to 2026-08-12	Gamma; Lognormal; Normal	Normal	1.20	1.25	0.580	1.50	0.254	0.211	-0.934
18_1_4_104	MW-08	Appendix IV	Beryllium	mg/L	20	19	95%	2022-12-01 to 2026-08-12		Nonparametric	0.000120	0.000120	0.000120	0.000120	NA	NA	NA
18_1_4_106	MW-08	Appendix IV	Cadmium	mg/L	20	19	95%	2022-12-01 to 2026-08-12		Nonparametric	0.000110	0.000110	0.000110	0.000110	NA	NA	NA
18_1_4_109	MW-08	Appendix IV	Chromium, Total	mg/L	20	0	0%	2022-12-01 to 2026-08-12	Gamma; Lognormal; Normal	Normal	0.000749	0.000685	0.000420	0.00150	0.000268	0.358	1.23
18_1_4_110	MW-08	Appendix IV	Cobalt	mg/L	20	0	0%	2022-12-01 to 2026-08-12	Gamma; Lognormal; Normal	Normal	0.000482	0.000410	0.000220	0.000980	0.000193	0.401	0.923
18_1_4_113	MW-08	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	2022-12-01 to 2026-08-12	Normal	Normal	0.976	1.00	0.400	1.40	0.267	0.273	-0.688
18_1_4_115	MW-08	Appendix IV	Lead	mg/L	20	12	60%	2022-12-01 to 2026-08-12	Gamma; Lognormal	Nonparametric	0.000656	0.000240	0.000100	0.00290	0.000943	1.44	2.44
18_1_4_116	MW-08	Appendix IV	Lithium	mg/L	20	0	0%	2022-12-01 to 2026-08-12	Gamma; Lognormal; Normal	Normal	0.0962	0.0925	0.0630	0.140	0.0242	0.252	0.429

(Table continues on next page)

Table 2: Summary Statistics, Non-Detects Excluded *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness
18_1_4_117	MW-08	Appendix IV	Mercury	ng/L	20	18	90%	2022-12-01 to 2026-08-12		Nonparametric	0.925	0.925	0.650	1.20	0.389	0.420	NA
18_1_4_118	MW-08	Appendix IV	Molybdenum	mg/L	20	2	10%	2022-12-01 to 2026-08-12	Gamma; Lognormal; Normal	Normal	0.00166	0.00165	0.000310	0.00410	0.00105	0.636	0.592
18_1_4_121	MW-08	Appendix IV	Radium 226 and 228	pCi/L	20	5	25%	2022-12-01 to 2026-08-12	Gamma; Lognormal; Normal	Normal	1.03	0.964	0.375	2.10	0.439	0.425	0.950
18_1_4_122	MW-08	Appendix IV	Selenium	mg/L	20	7	35%	2022-12-01 to 2026-08-12	Gamma; Lognormal	Gamma	0.000163	0.000140	0.000100	0.000340	0.0000733	0.449	1.86
18_1_4_125	MW-08	Appendix IV	Thallium	mg/L	20	19	95%	2022-12-01 to 2026-08-12		Nonparametric	0.000130	0.000130	0.000130	0.000130	NA	NA	NA
18_1_5_111	MW-08	Part 115	Copper	mg/L	20	6	30%	2022-12-01 to 2026-08-12	Gamma; Lognormal; Normal	Normal	0.000404	0.000365	0.000210	0.000800	0.000157	0.388	1.41
18_1_5_114	MW-08	Part 115	Iron	mg/L	20	0	0%	2022-12-01 to 2026-08-12	Gamma; Lognormal; Normal	Normal	17.1	18.0	6.60	32.0	7.08	0.415	0.326
18_1_5_119	MW-08	Part 115	Nickel	mg/L	20	0	0%	2022-12-01 to 2026-08-12	Lognormal	Lognormal	0.00274	0.00155	0.000850	0.0130	0.00278	1.01	2.91
18_1_5_128	MW-08	Part 115	Vanadium	mg/L	20	17	85%	2022-12-01 to 2026-08-12		Nonparametric	0.000500	0.000300	0.000290	0.000910	0.000355	0.710	1.73
18_1_5_129	MW-08	Part 115	Zinc	mg/L	20	3	15%	2022-12-01 to 2026-08-12	Nonparametric	Nonparametric	0.0402	0.00370	0.00130	0.160	0.0527	1.31	1.05
19_2_3_105	MW-09	Appendix III	Boron	mg/L	20	0	0%	2022-11-28 to 2026-08-10	Nonparametric	Nonparametric	5.38	5.60	2.30	6.90	1.06	0.197	-1.66
19_2_3_107	MW-09	Appendix III	Calcium	mg/L	20	0	0%	2022-11-28 to 2026-08-10	Gamma; Lognormal; Normal	Normal	412	425	230	530	91.8	0.223	-0.485
19_2_3_108	MW-09	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	2022-11-28 to 2026-08-10	Lognormal	Lognormal	33.1	21.5	11.0	94.0	26.5	0.801	1.34
19_2_3_112	MW-09	Appendix III	Fluoride	mg/L	20	0	0%	2022-11-28 to 2026-08-10	Gamma; Lognormal; Normal	Normal	2.45	2.50	1.60	2.90	0.356	0.145	-0.823
19_2_3_120	MW-09	Appendix III	pH (field)	su	20	0	0%	2022-11-28 to 2026-08-10	Gamma; Lognormal; Normal	Normal	7.16	7.18	6.88	7.52	0.154	0.0215	0.157
19_2_3_124	MW-09	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	2022-11-28 to 2026-08-10	Gamma; Normal	Normal	604	620	83.0	1300	329	0.545	0.215
19_2_3_126	MW-09	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	2022-11-28 to 2026-08-10	Gamma; Lognormal; Normal	Normal	1615	1600	740	2500	454	0.281	0.0779
19_2_4_101	MW-09	Appendix IV	Antimony	mg/L	20	12	60%	2022-11-28 to 2026-08-10	Gamma; Lognormal; Normal	Nonparametric	0.000169	0.000140	0.0000730	0.000370	0.0000972	0.574	1.38
19_2_4_102	MW-09	Appendix IV	Arsenic	mg/L	20	0	0%	2022-11-28 to 2026-08-10	Normal	Normal	0.00213	0.00230	0.000820	0.00330	0.000630	0.296	-0.314
19_2_4_103	MW-09	Appendix IV	Barium	mg/L	20	0	0%	2022-11-28 to 2026-08-10	Lognormal	Lognormal	0.317	0.200	0.0460	2.40	0.507	1.60	4.02
19_2_4_104	MW-09	Appendix IV	Beryllium	mg/L	20	15	75%	2022-11-28 to 2026-08-10	Gamma; Lognormal; Normal	Nonparametric	0.0000828	0.0000640	0.0000570	0.000150	0.0000392	0.474	1.83
19_2_4_106	MW-09	Appendix IV	Cadmium	mg/L	20	19	95%	2022-11-28 to 2026-08-10		Nonparametric	0.000680	0.000680	0.000680	0.000680	NA	NA	NA
19_2_4_109	MW-09	Appendix IV	Chromium, Total	mg/L	20	0	0%	2022-11-28 to 2026-08-10	Gamma; Lognormal; Normal	Normal	0.00229	0.00230	0.00110	0.00320	0.000560	0.245	-0.203
19_2_4_110	MW-09	Appendix IV	Cobalt	mg/L	20	0	0%	2022-11-28 to 2026-08-10	Nonparametric	Nonparametric	0.000784	0.000495	0.000230	0.00640	0.00134	1.71	4.30
19_2_4_113	MW-09	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	2022-11-28 to 2026-08-10	Gamma; Lognormal; Normal	Normal	2.45	2.50	1.60	2.90	0.356	0.145	-0.823
19_2_4_115	MW-09	Appendix IV	Lead	mg/L	20	17	85%	2022-11-28 to 2026-08-10		Nonparametric	0.000297	0.000340	0.000140	0.000410	0.000140	0.472	-1.26
19_2_4_116	MW-09	Appendix IV	Lithium	mg/L	20	0	0%	2022-11-28 to 2026-08-10	Nonparametric	Nonparametric	0.324	0.310	0.260	0.540	0.0656	0.203	2.32
19_2_4_117	MW-09	Appendix IV	Mercury	ng/L	20	14	70%	2022-11-28 to 2026-08-10	Gamma; Lognormal	Nonparametric	751	2.31	0.290	2400	1165	1.55	0.997
19_2_4_118	MW-09	Appendix IV	Molybdenum	mg/L	20	0	0%	2022-11-28 to 2026-08-10	Gamma; Lognormal; Normal	Normal	0.0223	0.0220	0.00970	0.0330	0.00637	0.285	-0.131
19_2_4_121	MW-09	Appendix IV	Radium 226 and 228	pCi/L	20	18	90%	2022-11-28 to 2026-08-10		Nonparametric	0.708	0.708	0.626	0.789	0.115	0.163	NA
19_2_4_122	MW-09	Appendix IV	Selenium	mg/L	20	2	10%	2022-11-28 to 2026-08-10	Nonparametric	Nonparametric	0.000532	0.000285	0.000120	0.00350	0.000766	1.44	3.82
19_2_5_111	MW-09	Part 115	Copper	mg/L	20	11	55%	2022-11-28 to 2026-08-10	Gamma; Lognormal	Nonparametric	0.00112	0.000430	0.000240	0.00380	0.00118	1.05	1.66
19_2_5_114	MW-09	Part 115	Iron	mg/L	20	0	0%	2022-11-28 to 2026-08-10	Gamma; Lognormal; Normal	Normal	19.7	19.5	5.80	26.0	5.15	0.261	-0.966
19_2_5_119	MW-09	Part 115	Nickel	mg/L	20	0	0%	2022-11-28 to 2026-08-10	Lognormal	Nonparametric	0.0113	0.00385	0.000720	0.100	0.0224	1.98	3.61
19_2_5_128	MW-09	Part 115	Vanadium	mg/L	20	15	75%	2022-11-28 to 2026-08-10	Gamma; Lognormal; Normal	Nonparametric	0.000502	0.000470	0.000280	0.000710	0.000202	0.402	0.140
19_2_5_129	MW-09	Part 115	Zinc	mg/L	20	8	40%	2022-11-28 to 2026-08-10	Gamma; Lognormal	Gamma	0.0195	0.0106	0.00150	0.120	0.0325	1.67	3.14
20_3_3_105	MW-10	Appendix III	Boron	mg/L	20	0	0%	2022-11-29 to 2026-08-10	Normal	Normal	19.4	21.5	4.50	30.0	8.23	0.425	-0.455
20_3_3_107	MW-10	Appendix III	Calcium	mg/L	20	0	0%	2022-11-29 to 2026-08-10	Gamma; Lognormal	Gamma	284	270	160	590	106	0.374	1.58
20_3_3_108	MW-10	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	2022-11-29 to 2026-08-10	Gamma; Lognormal; Normal	Normal	329	315	92.0	700	180	0.548	0.702
20_3_3_112	MW-10	Appendix III	Fluoride	mg/L	20	0	0%	2022-11-29 to 2026-08-10	Gamma; Normal	Normal	5.33	5.65	2.70	7.70	1.41	0.264	-0.422
20_3_3_120	MW-10	Appendix III	pH (field)	su	20	0	0%	2022-11-29 to 2026-08-10	Nonparametric	Nonparametric	7.74	7.78	7.05	8.81	0.354	0.0458	1.15
20_3_3_124	MW-10	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	2022-11-29 to 2026-08-10	Gamma; Lognormal; Normal	Normal	525	400	30.0	1700	394	0.750	1.51
20_3_3_126	MW-10	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	2022-11-29 to 2026-08-10	Nonparametric	Nonparametric	2010	1850	1500	3200	455	0.226	1.33

(Table continues on next page)

Table 2: Summary Statistics, Non-Detects Excluded *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness
20_3_4_101	MW-10	Appendix IV	Antimony	mg/L	20	15	75%	2022-11-29 to 2026-08-10	Nonparametric	Nonparametric	0.000162	0.000120	0.000110	0.000340	0.0000998	0.616	2.20
20_3_4_102	MW-10	Appendix IV	Arsenic	mg/L	20	0	0%	2022-11-29 to 2026-08-10	Gamma; Lognormal; Normal	Normal	0.000839	0.000735	0.000200	0.00200	0.000515	0.614	0.848
20_3_4_103	MW-10	Appendix IV	Barium	mg/L	20	0	0%	2022-11-29 to 2026-08-10	Gamma; Lognormal; Normal	Normal	0.359	0.320	0.140	0.720	0.167	0.464	0.806
20_3_4_104	MW-10	Appendix IV	Beryllium	mg/L	20	10	50%	2022-11-29 to 2026-08-10	Gamma; Lognormal; Normal	Nonparametric	0.0000973	0.0000765	0.0000520	0.000220	0.0000529	0.544	1.64
20_3_4_109	MW-10	Appendix IV	Chromium, Total	mg/L	20	0	0%	2022-11-29 to 2026-08-10	Gamma; Lognormal; Normal	Normal	0.00411	0.00415	0.00130	0.00850	0.00186	0.454	0.527
20_3_4_110	MW-10	Appendix IV	Cobalt	mg/L	20	1	5%	2022-11-29 to 2026-08-10	Gamma; Lognormal	Gamma	0.000504	0.000400	0.000100	0.00180	0.000367	0.728	2.67
20_3_4_113	MW-10	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	2022-11-29 to 2026-08-10	Gamma; Normal	Normal	5.33	5.65	2.70	7.70	1.41	0.264	-0.422
20_3_4_115	MW-10	Appendix IV	Lead	mg/L	20	17	85%	2022-11-29 to 2026-08-10		Nonparametric	0.000190	0.000170	0.000120	0.000280	0.0000819	0.431	1.03
20_3_4_116	MW-10	Appendix IV	Lithium	mg/L	20	0	0%	2022-11-29 to 2026-08-10	Lognormal	Lognormal	0.935	0.955	0.540	1.60	0.224	0.239	0.985
20_3_4_117	MW-10	Appendix IV	Mercury	ng/L	20	17	85%	2022-11-29 to 2026-08-10		Nonparametric	634	0.370	0.200	1900	1097	1.73	1.73
20_3_4_118	MW-10	Appendix IV	Molybdenum	mg/L	20	0	0%	2022-11-29 to 2026-08-10	Gamma; Lognormal; Normal	Normal	0.00279	0.00245	0.000650	0.00720	0.00168	0.601	1.08
20_3_4_121	MW-10	Appendix IV	Radium 226 and 228	pCi/L	20	15	75%	2022-11-29 to 2026-08-10	Gamma; Lognormal; Normal	Nonparametric	0.898	0.817	0.608	1.36	0.291	0.323	1.18
20_3_4_122	MW-10	Appendix IV	Selenium	mg/L	20	1	5%	2022-11-29 to 2026-08-10	Gamma; Lognormal	Gamma	0.000356	0.000340	0.000190	0.000830	0.000130	0.365	2.82
20_3_5_111	MW-10	Part 115	Copper	mg/L	20	16	80%	2022-11-29 to 2026-08-10		Nonparametric	0.000843	0.000845	0.000380	0.00130	0.000474	0.563	-0.00801
20_3_5_114	MW-10	Part 115	Iron	mg/L	20	0	0%	2022-11-29 to 2026-08-10	Gamma; Lognormal; Normal	Normal	4.76	4.40	2.30	7.70	1.75	0.366	0.218
20_3_5_119	MW-10	Part 115	Nickel	mg/L	20	7	35%	2022-11-29 to 2026-08-10	Lognormal	Lognormal	0.00105	0.000890	0.000760	0.00180	0.000308	0.293	1.52
20_3_5_128	MW-10	Part 115	Vanadium	mg/L	20	12	60%	2022-11-29 to 2026-08-10	Gamma; Lognormal; Normal	Nonparametric	0.00103	0.00110	0.000450	0.00150	0.000390	0.378	-0.499
20_3_5_129	MW-10	Part 115	Zinc	mg/L	20	7	35%	2022-11-29 to 2026-08-10	Gamma; Lognormal; Normal	Gamma	0.0124	0.0100	0.00120	0.0480	0.0143	1.15	1.59
21_2_3_105	MW-11	Appendix III	Boron	mg/L	20	0	0%	2022-11-29 to 2026-08-12	Gamma; Lognormal; Normal	Normal	6.84	5.80	1.50	14.0	3.91	0.571	0.524
21_2_3_107	MW-11	Appendix III	Calcium	mg/L	20	0	0%	2022-11-29 to 2026-08-12	Gamma; Lognormal; Normal	Normal	248	255	130	380	74.4	0.300	-0.188
21_2_3_108	MW-11	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	2022-11-29 to 2026-08-12	Gamma; Lognormal; Normal	Normal	68.1	72.0	38.0	95.0	16.6	0.244	-0.237
21_2_3_112	MW-11	Appendix III	Fluoride	mg/L	20	0	0%	2022-11-29 to 2026-08-12	Gamma; Lognormal; Normal	Normal	0.744	0.690	0.210	1.60	0.428	0.576	0.779
21_2_3_120	MW-11	Appendix III	pH (field)	su	20	0	0%	2022-11-29 to 2026-08-12	Gamma; Lognormal; Normal	Normal	7.29	7.32	7.09	7.47	0.107	0.0146	-0.364
21_2_3_124	MW-11	Appendix III	Sulfate (as SO4)	mg/L	20	7	35%	2022-11-29 to 2026-08-12	Gamma; Lognormal	Gamma	49.6	17.0	1.80	210	68.7	1.38	1.79
21_2_3_126	MW-11	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	2022-11-29 to 2026-08-12	Gamma; Lognormal; Normal	Normal	1020	985	680	1800	245	0.240	1.59
21_2_4_101	MW-11	Appendix IV	Antimony	mg/L	20	15	75%	2022-11-29 to 2026-08-12	Gamma; Lognormal; Normal	Nonparametric	0.000326	0.000280	0.0000820	0.000690	0.000222	0.680	1.27
21_2_4_102	MW-11	Appendix IV	Arsenic	mg/L	20	0	0%	2022-11-29 to 2026-08-12	Gamma; Lognormal	Gamma	0.00200	0.00160	0.000610	0.00440	0.00116	0.579	1.16
21_2_4_103	MW-11	Appendix IV	Barium	mg/L	20	0	0%	2022-11-29 to 2026-08-12	Gamma; Lognormal; Normal	Normal	0.713	0.630	0.360	1.40	0.263	0.369	1.29
21_2_4_104	MW-11	Appendix IV	Beryllium	mg/L	20	14	70%	2022-11-29 to 2026-08-12	Lognormal	Nonparametric	0.000147	0.0000945	0.0000540	0.000440	0.000145	0.986	2.36
21_2_4_106	MW-11	Appendix IV	Cadmium	mg/L	20	17	85%	2022-11-29 to 2026-08-12		Nonparametric	0.000413	0.000350	0.000160	0.000730	0.000290	0.702	0.935
21_2_4_109	MW-11	Appendix IV	Chromium, Total	mg/L	20	0	0%	2022-11-29 to 2026-08-12	Nonparametric	Nonparametric	0.00145	0.000975	0.000450	0.00860	0.00181	1.25	3.66
21_2_4_110	MW-11	Appendix IV	Cobalt	mg/L	20	0	0%	2022-11-29 to 2026-08-12	Lognormal	Lognormal	0.000687	0.000445	0.000230	0.00260	0.000661	0.961	2.35
21_2_4_113	MW-11	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	2022-11-29 to 2026-08-12	Gamma; Lognormal; Normal	Normal	0.744	0.690	0.210	1.60	0.428	0.576	0.779
21_2_4_115	MW-11	Appendix IV	Lead	mg/L	20	3	15%	2022-11-29 to 2026-08-12	Lognormal	Nonparametric	0.00762	0.00120	0.000170	0.0680	0.0175	2.30	3.08
21_2_4_116	MW-11	Appendix IV	Lithium	mg/L	20	0	0%	2022-11-29 to 2026-08-12	Gamma; Lognormal; Normal	Normal	0.0758	0.0560	0.00590	0.220	0.0570	0.752	1.08
21_2_4_117	MW-11	Appendix IV	Mercury	ng/L	20	13	65%	2022-11-29 to 2026-08-12	Nonparametric	Nonparametric	160	2.40	0.880	1100	414	2.59	2.65
21_2_4_118	MW-11	Appendix IV	Molybdenum	mg/L	20	2	10%	2022-11-29 to 2026-08-12	Gamma; Lognormal; Normal	Normal	0.00170	0.00140	0.000360	0.00430	0.00120	0.704	0.926
21_2_4_121	MW-11	Appendix IV	Radium 226 and 228	pCi/L	19	7	37%	2022-11-29 to 2026-08-12	Gamma; Lognormal; Normal	Normal	0.981	0.832	0.457	1.76	0.431	0.440	0.669
21_2_4_122	MW-11	Appendix IV	Selenium	mg/L	20	3	15%	2022-11-29 to 2026-08-12	Gamma; Lognormal	Gamma	0.000256	0.000220	0.000140	0.000710	0.000138	0.540	2.46
21_2_4_125	MW-11	Appendix IV	Thallium	mg/L	20	19	95%	2022-11-29 to 2026-08-12		Nonparametric	0.000210	0.000210	0.000210	0.000210	NA	NA	NA
21_2_5_111	MW-11	Part 115	Copper	mg/L	20	4	20%	2022-11-29 to 2026-08-12	Nonparametric	Nonparametric	0.00227	0.000470	0.000200	0.0190	0.00474	2.09	3.36
21_2_5_114	MW-11	Part 115	Iron	mg/L	20	0	0%	2022-11-29 to 2026-08-12	Gamma; Lognormal; Normal	Normal	8.24	7.45	3.60	18.0	3.95	0.479	1.48
21_2_5_119	MW-11	Part 115	Nickel	mg/L	20	0	0%	2022-11-29 to 2026-08-12	Nonparametric	Nonparametric	0.00259	0.00150	0.000650	0.0150	0.00346	1.34	3.08

(Table continues on next page)

Table 2: Summary Statistics, Non-Detects Excluded *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness
21_2_5_123	MW-11	Part 115	Silver	mg/L	20	17	85%	2022-11-29 to 2026-08-12		Nonparametric	0.000153	0.000150	0.000140	0.000170	0.0000153	0.0996	0.935
21_2_5_128	MW-11	Part 115	Vanadium	mg/L	20	13	65%	2022-11-29 to 2026-08-12	Nonparametric	Nonparametric	0.000987	0.000620	0.000510	0.00300	0.000903	0.915	2.47
21_2_5_129	MW-11	Part 115	Zinc	mg/L	20	4	20%	2022-11-29 to 2026-08-12	Gamma; Normal	Gamma	0.0347	0.0325	0.00180	0.100	0.0306	0.884	0.737
22_2_3_105	MW-12	Appendix III	Boron	mg/L	20	0	0%	2022-11-28 to 2026-08-12	Gamma; Lognormal; Normal	Normal	0.311	0.265	0.140	0.620	0.114	0.366	0.970
22_2_3_107	MW-12	Appendix III	Calcium	mg/L	20	0	0%	2022-11-28 to 2026-08-12	Gamma; Lognormal; Normal	Normal	64.5	63.5	37.0	99.0	19.5	0.302	0.258
22_2_3_108	MW-12	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	2022-11-28 to 2026-08-12	Gamma; Lognormal; Normal	Normal	18.0	17.0	9.00	27.0	5.02	0.279	0.409
22_2_3_112	MW-12	Appendix III	Fluoride	mg/L	20	0	0%	2022-11-28 to 2026-08-12	Lognormal	Lognormal	0.316	0.290	0.200	0.540	0.0952	0.301	1.12
22_2_3_120	MW-12	Appendix III	pH (field)	su	20	0	0%	2022-11-28 to 2026-08-12	Gamma; Lognormal; Normal	Normal	7.64	7.66	7.00	8.32	0.322	0.0422	0.172
22_2_3_124	MW-12	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	2022-11-28 to 2026-08-12	Gamma; Lognormal; Normal	Normal	90.8	91.5	9.20	180	46.4	0.510	0.326
22_2_3_126	MW-12	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	2022-11-28 to 2026-08-12	Gamma; Lognormal; Normal	Normal	274	265	100	420	88.6	0.323	-0.130
22_2_4_101	MW-12	Appendix IV	Antimony	mg/L	20	0	0%	2022-11-28 to 2026-08-12	Gamma; Lognormal; Normal	Normal	0.000688	0.000660	0.000160	0.00150	0.000390	0.566	0.697
22_2_4_102	MW-12	Appendix IV	Arsenic	mg/L	20	0	0%	2022-11-28 to 2026-08-12	Gamma; Lognormal	Gamma	0.00276	0.00220	0.00140	0.00640	0.00149	0.540	1.43
22_2_4_103	MW-12	Appendix IV	Barium	mg/L	20	0	0%	2022-11-28 to 2026-08-12	Gamma; Lognormal; Normal	Normal	0.0553	0.0465	0.0170	0.140	0.0372	0.672	1.17
22_2_4_104	MW-12	Appendix IV	Beryllium	mg/L	20	19	95%	2022-11-28 to 2026-08-12		Nonparametric	0.0000660	0.0000660	0.0000660	0.0000660	NA	NA	NA
22_2_4_106	MW-12	Appendix IV	Cadmium	mg/L	20	0	0%	2022-11-28 to 2026-08-12	Gamma; Lognormal	Gamma	0.00217	0.00145	0.000540	0.0110	0.00236	1.09	3.06
22_2_4_109	MW-12	Appendix IV	Chromium, Total	mg/L	20	6	30%	2022-11-28 to 2026-08-12	Gamma; Lognormal; Normal	Normal	0.000529	0.000470	0.000210	0.000990	0.000268	0.506	0.736
22_2_4_110	MW-12	Appendix IV	Cobalt	mg/L	20	5	25%	2022-11-28 to 2026-08-12	Gamma; Lognormal	Gamma	0.000613	0.000380	0.000110	0.00280	0.000700	1.14	2.46
22_2_4_113	MW-12	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	2022-11-28 to 2026-08-12	Lognormal	Lognormal	0.316	0.290	0.200	0.540	0.0952	0.301	1.12
22_2_4_115	MW-12	Appendix IV	Lead	mg/L	20	6	30%	2022-11-28 to 2026-08-12	Gamma; Lognormal; Normal	Normal	0.000325	0.000265	0.000140	0.000800	0.000184	0.566	1.37
22_2_4_116	MW-12	Appendix IV	Lithium	mg/L	20	1	5%	2022-11-28 to 2026-08-12	Gamma; Lognormal; Normal	Normal	0.00377	0.00370	0.00190	0.00640	0.00138	0.367	0.183
22_2_4_117	MW-12	Appendix IV	Mercury	ng/L	20	12	60%	2022-11-28 to 2026-08-12	Nonparametric	Nonparametric	50.1	1.40	0.830	230	91.4	1.82	1.62
22_2_4_118	MW-12	Appendix IV	Molybdenum	mg/L	20	0	0%	2022-11-28 to 2026-08-12	Gamma; Lognormal	Gamma	0.00750	0.00700	0.00420	0.0180	0.00289	0.386	2.61
22_2_4_121	MW-12	Appendix IV	Radium 226 and 228	pCi/L	20	12	60%	2022-11-28 to 2026-08-12	Gamma; Lognormal; Normal	Nonparametric	0.708	0.659	0.487	1.09	0.196	0.277	1.00
22_2_4_122	MW-12	Appendix IV	Selenium	mg/L	20	0	0%	2022-11-28 to 2026-08-12	Gamma; Lognormal	Gamma	0.00120	0.000825	0.000130	0.00450	0.00130	1.09	1.57
22_2_5_111	MW-12	Part 115	Copper	mg/L	20	0	0%	2022-11-28 to 2026-08-12	Gamma; Lognormal; Normal	Normal	0.00155	0.00125	0.000550	0.00350	0.000874	0.564	1.29
22_2_5_114	MW-12	Part 115	Iron	mg/L	20	6	30%	2022-11-28 to 2026-08-12	Lognormal	Nonparametric	0.160	0.0615	0.0210	0.920	0.242	1.51	2.79
22_2_5_119	MW-12	Part 115	Nickel	mg/L	20	0	0%	2022-11-28 to 2026-08-12	Gamma; Lognormal	Gamma	0.00285	0.00255	0.00100	0.00730	0.00153	0.537	1.79
22_2_5_128	MW-12	Part 115	Vanadium	mg/L	20	6	30%	2022-11-28 to 2026-08-12	Gamma; Lognormal; Normal	Normal	0.00104	0.000955	0.000440	0.00210	0.000433	0.415	1.01
22_2_5_129	MW-12	Part 115	Zinc	mg/L	20	0	0%	2022-11-28 to 2026-08-12	Gamma; Lognormal	Gamma	0.0111	0.00875	0.00270	0.0230	0.00617	0.556	0.793
26_1_3_105	MW-16	Appendix III	Boron	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.339	0.330	0.210	0.500	0.0970	0.286	0.186
26_1_3_107	MW-16	Appendix III	Calcium	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	230	230	180	280	32	0.139	-0.204
26_1_3_108	MW-16	Appendix III	Chloride (as Cl)	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	19.3	19.0	14.0	23.0	2.98	0.155	-0.269
26_1_3_112	MW-16	Appendix III	Fluoride	mg/L	10	1	10%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.170	0.180	0.130	0.200	0.0255	0.150	-0.466
26_1_3_120	MW-16	Appendix III	pH (field)	su	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	7.01	7.0	6.53	7.30	0.276	0.0394	-0.369
26_1_3_124	MW-16	Appendix III	Sulfate (as SO4)	mg/L	10	2	20%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Gamma	79.3	75.0	1.10	190	69.9	0.881	0.336
26_1_3_126	MW-16	Appendix III	Total Dissolved Solids	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	779	790	640	910	84.6	0.109	-0.272
26_1_4_101	MW-16	Appendix IV	Antimony	mg/L	10	9	90%	2024-04-08 to 2026-08-11		Nonparametric	0.000110	0.000110	0.000110	0.000110	NA	NA	NA
26_1_4_102	MW-16	Appendix IV	Arsenic	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.00951	0.00575	0.00120	0.0230	0.00753	0.792	0.691
26_1_4_103	MW-16	Appendix IV	Barium	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.260	0.270	0.180	0.380	0.0638	0.245	0.415
26_1_4_104	MW-16	Appendix IV	Beryllium	mg/L	10	9	90%	2024-04-08 to 2026-08-11		Nonparametric	0.0000540	0.0000540	0.0000540	0.0000540	NA	NA	NA
26_1_4_109	MW-16	Appendix IV	Chromium, Total	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.00106	0.000790	0.000510	0.00220	0.000580	0.546	0.952
26_1_4_110	MW-16	Appendix IV	Cobalt	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Nonparametric	Nonparametric	0.000262	0.000200	0.000160	0.000630	0.000148	0.563	2.09
26_1_4_113	MW-16	Appendix IV	Fluoride (App IV)	mg/L	10	1	10%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.170	0.180	0.130	0.200	0.0255	0.150	-0.466

(Table continues on next page)

Table 2: Summary Statistics, Non-Detects Excluded *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness
26_1_4_115	MW-16	Appendix IV	Lead	mg/L	10	6	60%	2024-04-08 to 2026-08-11		Nonparametric	0.000185	0.000165	0.000130	0.000280	0.0000686	0.371	1.24
26_1_4_116	MW-16	Appendix IV	Lithium	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.0217	0.0225	0.0150	0.0270	0.00400	0.184	-0.544
26_1_4_117	MW-16	Appendix IV	Mercury	ng/L	10	8	80%	2024-04-08 to 2026-08-11		Nonparametric	0.360	0.360	0.290	0.430	0.0990	0.275	NA
26_1_4_118	MW-16	Appendix IV	Molybdenum	mg/L	10	9	90%	2024-04-08 to 2026-08-11		Nonparametric	0.000550	0.000550	0.000550	0.000550	NA	NA	NA
26_1_4_121	MW-16	Appendix IV	Radium 226 and 228	pCi/L	10	4	40%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.701	0.678	0.525	0.991	0.165	0.235	1.15
26_1_4_122	MW-16	Appendix IV	Selenium	mg/L	10	1	10%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.000159	0.000150	0.000110	0.000250	0.0000473	0.298	1.16
26_1_5_111	MW-16	Part 115	Copper	mg/L	10	5	50%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Nonparametric	0.000288	0.000300	0.000230	0.000350	0.0000482	0.167	0.00268
26_1_5_114	MW-16	Part 115	Iron	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	7.66	6.90	0.990	13.0	3.75	0.489	-0.0490
26_1_5_119	MW-16	Part 115	Nickel	mg/L	10	1	10%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Gamma	0.00312	0.00170	0.000550	0.00880	0.00293	0.939	1.07
26_1_5_128	MW-16	Part 115	Vanadium	mg/L	10	3	30%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.000784	0.000760	0.000380	0.00110	0.000248	0.316	-0.386
26_1_5_129	MW-16	Part 115	Zinc	mg/L	10	2	20%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Gamma	0.0132	0.0125	0.000870	0.0290	0.0104	0.784	0.389
27_1_3_105	MW-17	Appendix III	Boron	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.709	0.770	0.320	1.00	0.226	0.318	-0.473
27_1_3_107	MW-17	Appendix III	Calcium	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	132	130	98.0	160	18.5	0.141	-0.186
27_1_3_108	MW-17	Appendix III	Chloride (as Cl)	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Normal	Normal	31.4	33.5	10.0	47.0	10.7	0.342	-0.656
27_1_3_112	MW-17	Appendix III	Fluoride	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.591	0.580	0.380	0.750	0.116	0.196	-0.272
27_1_3_120	MW-17	Appendix III	pH (field)	su	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	7.59	7.53	7.31	7.88	0.193	0.0254	0.321
27_1_3_124	MW-17	Appendix III	Sulfate (as SO4)	mg/L	10	2	20%	2024-04-08 to 2026-08-11	Gamma; Lognormal	Gamma	16.0	6.05	0.790	50.0	18.3	1.14	1.07
27_1_3_126	MW-17	Appendix III	Total Dissolved Solids	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Nonparametric	Nonparametric	566	605	360	620	86.0	0.152	-1.93
27_1_4_101	MW-17	Appendix IV	Antimony	mg/L	10	8	80%	2024-04-08 to 2026-08-11		Nonparametric	0.000830	0.000830	0.000160	0.00150	0.000948	1.14	NA
27_1_4_102	MW-17	Appendix IV	Arsenic	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.00187	0.00190	0.00120	0.00260	0.000488	0.261	0.0263
27_1_4_103	MW-17	Appendix IV	Barium	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.649	0.640	0.280	0.900	0.180	0.278	-0.589
27_1_4_104	MW-17	Appendix IV	Beryllium	mg/L	10	9	90%	2024-04-08 to 2026-08-11		Nonparametric	0.0000690	0.0000690	0.0000690	0.0000690	NA	NA	NA
27_1_4_106	MW-17	Appendix IV	Cadmium	mg/L	10	9	90%	2024-04-08 to 2026-08-11		Nonparametric	0.000110	0.000110	0.000110	0.000110	NA	NA	NA
27_1_4_109	MW-17	Appendix IV	Chromium, Total	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal	Gamma	0.000896	0.000710	0.000540	0.00240	0.000556	0.621	2.63
27_1_4_110	MW-17	Appendix IV	Cobalt	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Lognormal	Lognormal	0.000420	0.000330	0.000260	0.000890	0.000185	0.441	2.09
27_1_4_113	MW-17	Appendix IV	Fluoride (App IV)	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.591	0.580	0.380	0.750	0.116	0.196	-0.272
27_1_4_115	MW-17	Appendix IV	Lead	mg/L	10	1	10%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.000431	0.000420	0.000140	0.000900	0.000266	0.617	0.724
27_1_4_116	MW-17	Appendix IV	Lithium	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.0313	0.0340	0.0160	0.0430	0.00803	0.256	-0.658
27_1_4_117	MW-17	Appendix IV	Mercury	ng/L	10	7	70%	2024-04-08 to 2026-08-11		Nonparametric	1.40	1.40	0.290	2.50	1.11	0.791	-0.0136
27_1_4_118	MW-17	Appendix IV	Molybdenum	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Nonparametric	Nonparametric	0.00217	0.000785	0.000420	0.0130	0.00388	1.79	2.95
27_1_4_121	MW-17	Appendix IV	Radium 226 and 228	pCi/L	10	3	30%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.765	0.748	0.530	1.28	0.259	0.338	1.49
27_1_4_122	MW-17	Appendix IV	Selenium	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Nonparametric	Nonparametric	0.000298	0.000170	0.000110	0.00150	0.000424	1.42	3.13
27_1_5_111	MW-17	Part 115	Copper	mg/L	10	1	10%	2024-04-08 to 2026-08-11	Gamma; Lognormal	Gamma	0.00156	0.00100	0.000200	0.00630	0.00188	1.21	2.44
27_1_5_114	MW-17	Part 115	Iron	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	4.29	4.40	1.90	6.60	1.18	0.275	-0.141
27_1_5_119	MW-17	Part 115	Nickel	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Lognormal	Lognormal	0.00189	0.00110	0.000790	0.00860	0.00239	1.27	3.03
27_1_5_128	MW-17	Part 115	Vanadium	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.000765	0.000710	0.000510	0.00130	0.000241	0.315	1.20
27_1_5_129	MW-17	Part 115	Zinc	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal	Gamma	0.0223	0.00815	0.00200	0.0740	0.0251	1.13	1.16
28_1_3_105	MW-18	Appendix III	Boron	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Lognormal; Normal	Normal	3.13	3.05	1.50	5.20	1.05	0.336	0.193
28_1_3_107	MW-18	Appendix III	Calcium	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Lognormal; Normal	Normal	318	330	190	450	69.5	0.219	0.0501
28_1_3_108	MW-18	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Lognormal; Normal	Normal	22.9	23.5	13.0	34.0	5.51	0.241	0.142
28_1_3_112	MW-18	Appendix III	Fluoride	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Lognormal; Normal	Normal	3.90	3.70	2.70	5.10	0.677	0.174	0.366
28_1_3_120	MW-18	Appendix III	pH (field)	su	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Lognormal; Normal	Normal	7.18	7.18	6.96	7.31	0.0946	0.0132	-0.613
28_1_3_124	MW-18	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Lognormal; Normal	Normal	742	745	300	1200	243	0.328	0.295

(Table continues on next page)

Table 2: Summary Statistics, Non-Detects Excluded *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness
28_1_3_126	MW-18	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Lognormal; Normal	Normal	1286	1300	740	1800	274	0.213	-0.0919
28_1_4_101	MW-18	Appendix IV	Antimony	mg/L	20	3	15%	2022-11-30 to 2026-08-11	Lognormal	Lognormal	0.000294	0.000170	0.000100	0.00110	0.000300	1.02	2.19
28_1_4_102	MW-18	Appendix IV	Arsenic	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.0271	0.0285	0.00970	0.0440	0.00840	0.310	0.0178
28_1_4_103	MW-18	Appendix IV	Barium	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Lognormal	Gamma	0.0246	0.0215	0.0120	0.0880	0.0165	0.670	3.23
28_1_4_104	MW-18	Appendix IV	Beryllium	mg/L	20	16	80%	2022-11-30 to 2026-08-11		Nonparametric	0.0000565	0.0000565	0.0000530	0.0000600	0.00000351	0.0622	0
28_1_4_106	MW-18	Appendix IV	Cadmium	mg/L	20	7	35%	2022-11-30 to 2026-08-11	Gamma; Lognormal	Gamma	0.000434	0.000300	0.0000890	0.00110	0.000366	0.844	0.888
28_1_4_109	MW-18	Appendix IV	Chromium, Total	mg/L	20	16	80%	2022-11-30 to 2026-08-11		Nonparametric	0.000498	0.000440	0.000230	0.000880	0.000314	0.632	0.514
28_1_4_110	MW-18	Appendix IV	Cobalt	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Lognormal	Gamma	0.00249	0.00200	0.000800	0.00600	0.00140	0.560	1.47
28_1_4_113	MW-18	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Lognormal; Normal	Normal	3.90	3.70	2.70	5.10	0.677	0.174	0.366
28_1_4_115	MW-18	Appendix IV	Lead	mg/L	20	12	60%	2022-11-30 to 2026-08-11	Gamma; Lognormal; Normal	Nonparametric	0.000192	0.000155	0.000120	0.000320	0.0000734	0.381	0.860
28_1_4_116	MW-18	Appendix IV	Lithium	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.0364	0.0375	0.0200	0.0580	0.00877	0.241	0.337
28_1_4_117	MW-18	Appendix IV	Mercury	ng/L	20	15	75%	2022-11-30 to 2026-08-11	Gamma; Lognormal; Normal	Nonparametric	1.22	0.990	0.860	2.10	0.505	0.413	1.93
28_1_4_118	MW-18	Appendix IV	Molybdenum	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.0165	0.0155	0.00900	0.0280	0.00483	0.293	0.566
28_1_4_121	MW-18	Appendix IV	Radium 226 and 228	pCi/L	20	10	50%	2022-11-30 to 2026-08-11	Gamma; Lognormal	Nonparametric	0.666	0.603	0.447	1.27	0.234	0.351	2.18
28_1_4_122	MW-18	Appendix IV	Selenium	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Lognormal	Gamma	0.00101	0.000470	0.000140	0.00660	0.00147	1.45	3.21
28_1_4_125	MW-18	Appendix IV	Thallium	mg/L	20	18	90%	2022-11-30 to 2026-08-11		Nonparametric	0.000160	0.000160	0.000160	0.000160	0	0	NA
28_1_5_111	MW-18	Part 115	Copper	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Nonparametric	Nonparametric	0.000961	0.000585	0.000330	0.00410	0.000896	0.933	2.57
28_1_5_114	MW-18	Part 115	Iron	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Normal	Normal	6.02	5.80	1.80	10.0	1.86	0.309	-0.0673
28_1_5_119	MW-18	Part 115	Nickel	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.00662	0.00570	0.00320	0.0110	0.00234	0.353	0.653
28_1_5_128	MW-18	Part 115	Vanadium	mg/L	20	18	90%	2022-11-30 to 2026-08-11		Nonparametric	0.000335	0.000335	0.000310	0.000360	0.0000354	0.106	NA
28_1_5_129	MW-18	Part 115	Zinc	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Lognormal	Gamma	0.0696	0.0510	0.0160	0.210	0.0516	0.742	1.50
29_1_3_105	MW-19	Appendix III	Boron	mg/L	20	0	0%	2022-11-30 to 2026-08-12	Gamma; Lognormal; Normal	Normal	2.15	2.10	1.50	3.40	0.503	0.233	0.634
29_1_3_107	MW-19	Appendix III	Calcium	mg/L	20	0	0%	2022-11-30 to 2026-08-12	Gamma; Lognormal; Normal	Normal	450	455	360	550	55.7	0.124	-0.0253
29_1_3_108	MW-19	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	2022-11-30 to 2026-08-12	Gamma; Lognormal; Normal	Normal	39.0	37.5	17.0	75.0	15.5	0.397	0.842
29_1_3_112	MW-19	Appendix III	Fluoride	mg/L	20	0	0%	2022-11-30 to 2026-08-12	Gamma; Lognormal; Normal	Normal	1.84	1.90	1.40	2.30	0.258	0.140	-0.0684
29_1_3_120	MW-19	Appendix III	pH (field)	su	20	0	0%	2022-11-30 to 2026-08-12	Gamma; Lognormal; Normal	Normal	6.79	6.83	6.34	7.07	0.187	0.0275	-1.09
29_1_3_124	MW-19	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	2022-11-30 to 2026-08-12	Gamma; Lognormal; Normal	Normal	962	940	600	1300	180	0.187	0.296
29_1_3_126	MW-19	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	2022-11-30 to 2026-08-12	Gamma; Lognormal; Normal	Normal	1795	1700	1400	2200	246	0.137	0.465
29_1_4_101	MW-19	Appendix IV	Antimony	mg/L	20	14	70%	2022-11-30 to 2026-08-12	Gamma; Lognormal; Normal	Nonparametric	0.000422	0.000445	0.000110	0.000720	0.000237	0.562	-0.187
29_1_4_102	MW-19	Appendix IV	Arsenic	mg/L	20	0	0%	2022-11-30 to 2026-08-12	Gamma; Lognormal; Normal	Normal	0.00432	0.00425	0.00100	0.00730	0.00200	0.463	-0.0171
29_1_4_103	MW-19	Appendix IV	Barium	mg/L	20	0	0%	2022-11-30 to 2026-08-12	Gamma; Lognormal; Normal	Normal	0.0379	0.0370	0.0280	0.0500	0.00582	0.154	0.375
29_1_4_104	MW-19	Appendix IV	Beryllium	mg/L	20	3	15%	2022-11-30 to 2026-08-12	Gamma; Lognormal; Normal	Normal	0.0000896	0.0000850	0.0000570	0.000150	0.0000259	0.290	0.653
29_1_4_106	MW-19	Appendix IV	Cadmium	mg/L	20	18	90%	2022-11-30 to 2026-08-12		Nonparametric	0.000275	0.000275	0.000250	0.000300	0.0000354	0.129	NA
29_1_4_109	MW-19	Appendix IV	Chromium, Total	mg/L	20	6	30%	2022-11-30 to 2026-08-12	Lognormal	Lognormal	0.000281	0.000270	0.000200	0.000530	0.0000843	0.300	2.21
29_1_4_110	MW-19	Appendix IV	Cobalt	mg/L	20	2	10%	2022-11-30 to 2026-08-12	Gamma; Lognormal; Normal	Normal	0.000594	0.000480	0.000130	0.00130	0.000338	0.570	0.640
29_1_4_113	MW-19	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	2022-11-30 to 2026-08-12	Gamma; Lognormal; Normal	Normal	1.84	1.90	1.40	2.30	0.258	0.140	-0.0684
29_1_4_116	MW-19	Appendix IV	Lithium	mg/L	20	0	0%	2022-11-30 to 2026-08-12	Gamma; Lognormal; Normal	Normal	0.0877	0.0875	0.0720	0.110	0.0113	0.128	0.481
29_1_4_117	MW-19	Appendix IV	Mercury	ng/L	20	18	90%	2022-11-30 to 2026-08-12		Nonparametric	0.220	0.220	0.180	0.260	0.0566	0.257	NA
29_1_4_118	MW-19	Appendix IV	Molybdenum	mg/L	20	0	0%	2022-11-30 to 2026-08-12	Gamma; Lognormal; Normal	Normal	0.0118	0.0110	0.00390	0.0210	0.00460	0.391	0.590
29_1_4_121	MW-19	Appendix IV	Radium 226 and 228	pCi/L	20	9	45%	2022-11-30 to 2026-08-12	Gamma; Lognormal; Normal	Normal	0.772	0.684	0.414	1.17	0.259	0.335	0.224
29_1_4_122	MW-19	Appendix IV	Selenium	mg/L	20	11	55%	2022-11-30 to 2026-08-12	Nonparametric	Nonparametric	0.000586	0.000140	0.000110	0.00360	0.00115	1.96	2.86
29_1_4_125	MW-19	Appendix IV	Thallium	mg/L	20	19	95%	2022-11-30 to 2026-08-12		Nonparametric	0.000120	0.000120	0.000120	0.000120	NA	NA	NA
29_1_5_111	MW-19	Part 115	Copper	mg/L	20	16	80%	2022-11-30 to 2026-08-12		Nonparametric	0.000300	0.000290	0.000220	0.000400	0.0000891	0.297	0.255

(Table continues on next page)

Table 2: Summary Statistics, Non-Detects Excluded *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness
29_1_5_114	MW-19	Part 115	Iron	mg/L	20	0	0%	2022-11-30 to 2026-08-12	Gamma; Lognormal; Normal	Normal	15.1	15.0	8.20	24.0	4.38	0.290	0.161
29_1_5_119	MW-19	Part 115	Nickel	mg/L	20	1	5%	2022-11-30 to 2026-08-12	Lognormal	Lognormal	0.00375	0.00240	0.00110	0.0170	0.00429	1.14	2.60
29_1_5_128	MW-19	Part 115	Vanadium	mg/L	20	14	70%	2022-11-30 to 2026-08-12	Gamma; Lognormal; Normal	Nonparametric	0.000580	0.000575	0.000310	0.000940	0.000219	0.378	0.646
29_1_5_129	MW-19	Part 115	Zinc	mg/L	20	10	50%	2022-11-30 to 2026-08-12	Lognormal	Nonparametric	0.0236	0.00440	0.00170	0.100	0.0361	1.53	1.65
30_1_3_105	MW-20	Appendix III	Boron	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Lognormal; Normal	Normal	1.01	0.960	0.720	1.40	0.215	0.213	0.567
30_1_3_107	MW-20	Appendix III	Calcium	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Normal	Normal	128	130	58.0	170	22.7	0.178	-1.24
30_1_3_108	MW-20	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Lognormal; Normal	Normal	54	61.0	20.0	92.0	22.0	0.408	0.0182
30_1_3_112	MW-20	Appendix III	Fluoride	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Lognormal	Gamma	0.254	0.245	0.120	0.550	0.0800	0.315	2.66
30_1_3_120	MW-20	Appendix III	pH (field)	su	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Lognormal; Normal	Normal	7.33	7.33	7.08	7.50	0.116	0.0159	-0.422
30_1_3_124	MW-20	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Lognormal; Normal	Normal	55.8	51.0	18.0	120	30.4	0.545	0.586
30_1_3_126	MW-20	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Normal	Normal	635	645	340	840	104	0.164	-0.826
30_1_4_101	MW-20	Appendix IV	Antimony	mg/L	20	8	40%	2022-11-30 to 2026-08-11	Lognormal	Lognormal	0.000149	0.000110	0.0000540	0.000650	0.000161	1.08	3.23
30_1_4_102	MW-20	Appendix IV	Arsenic	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.00144	0.00140	0.00100	0.00190	0.000303	0.211	0.296
30_1_4_103	MW-20	Appendix IV	Barium	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Lognormal	Gamma	0.498	0.460	0.310	0.940	0.160	0.321	1.50
30_1_4_104	MW-20	Appendix IV	Beryllium	mg/L	20	19	95%	2022-11-30 to 2026-08-11		Nonparametric	0.0000590	0.0000590	0.0000590	0.0000590	NA	NA	NA
30_1_4_106	MW-20	Appendix IV	Cadmium	mg/L	20	19	95%	2022-11-30 to 2026-08-11		Nonparametric	0.000390	0.000390	0.000390	0.000390	NA	NA	NA
30_1_4_109	MW-20	Appendix IV	Chromium, Total	mg/L	20	10	50%	2022-11-30 to 2026-08-11	Nonparametric	Nonparametric	0.000402	0.000235	0.000190	0.00190	0.000527	1.31	3.14
30_1_4_110	MW-20	Appendix IV	Cobalt	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.00119	0.00110	0.000690	0.00180	0.000292	0.246	0.354
30_1_4_113	MW-20	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Lognormal	Gamma	0.254	0.245	0.120	0.550	0.0800	0.315	2.66
30_1_4_115	MW-20	Appendix IV	Lead	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Lognormal	Lognormal	0.00226	0.00190	0.00120	0.00780	0.00141	0.626	3.44
30_1_4_116	MW-20	Appendix IV	Lithium	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.0560	0.0580	0.0290	0.0830	0.0152	0.271	-0.133
30_1_4_117	MW-20	Appendix IV	Mercury	ng/L	20	14	70%	2022-11-30 to 2026-08-11	Gamma; Lognormal; Normal	Nonparametric	5.93	5.20	1.90	11.0	3.06	0.515	0.692
30_1_4_118	MW-20	Appendix IV	Molybdenum	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.00419	0.00410	0.00240	0.00580	0.000818	0.196	-0.161
30_1_4_121	MW-20	Appendix IV	Radium 226 and 228	pCi/L	19	10	53%	2022-11-30 to 2026-08-11	Lognormal	Nonparametric	0.754	0.612	0.479	1.47	0.325	0.431	1.67
30_1_4_122	MW-20	Appendix IV	Selenium	mg/L	20	12	60%	2022-11-30 to 2026-08-11	Nonparametric	Nonparametric	0.000171	0.000120	0.000100	0.000430	0.000117	0.683	1.98
30_1_4_125	MW-20	Appendix IV	Thallium	mg/L	20	19	95%	2022-11-30 to 2026-08-11		Nonparametric	0.000110	0.000110	0.000110	0.000110	NA	NA	NA
30_1_5_111	MW-20	Part 115	Copper	mg/L	20	2	10%	2022-11-30 to 2026-08-11	Lognormal	Lognormal	0.000592	0.000350	0.000200	0.00330	0.000721	1.22	3.48
30_1_5_114	MW-20	Part 115	Iron	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Lognormal; Normal	Normal	17.4	18.0	12.0	22.0	3.20	0.184	-0.268
30_1_5_119	MW-20	Part 115	Nickel	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Nonparametric	Nonparametric	0.00967	0.00910	0.00450	0.0340	0.00598	0.618	3.86
30_1_5_129	MW-20	Part 115	Zinc	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Lognormal	Gamma	0.0373	0.0285	0.0130	0.110	0.0236	0.634	1.76
38_1_3_105	MW-28	Appendix III	Boron	mg/L	10	0	0%	2024-04-07 to 2026-08-12	Gamma; Lognormal; Normal	Normal	3.21	3.20	0.340	6.10	2.01	0.625	-0.00551
38_1_3_107	MW-28	Appendix III	Calcium	mg/L	10	0	0%	2024-04-07 to 2026-08-12	Gamma; Lognormal; Normal	Normal	173	170	120	230	32	0.185	0.220
38_1_3_108	MW-28	Appendix III	Chloride (as Cl)	mg/L	10	0	0%	2024-04-07 to 2026-08-12	Gamma; Lognormal; Normal	Normal	117	130	18.0	240	77.6	0.665	0.0382
38_1_3_112	MW-28	Appendix III	Fluoride	mg/L	10	0	0%	2024-04-07 to 2026-08-12	Gamma; Lognormal; Normal	Normal	1.13	1.14	0.400	2.00	0.485	0.428	0.104
38_1_3_120	MW-28	Appendix III	pH (field)	su	10	0	0%	2024-04-07 to 2026-08-12	Gamma; Lognormal; Normal	Normal	6.90	6.92	6.63	7.08	0.138	0.0201	-0.851
38_1_3_124	MW-28	Appendix III	Sulfate (as SO4)	mg/L	10	2	20%	2024-04-07 to 2026-08-12	Gamma; Lognormal; Normal	Gamma	24	23.5	0.580	57.0	23.2	0.967	0.175
38_1_3_126	MW-28	Appendix III	Total Dissolved Solids	mg/L	10	0	0%	2024-04-07 to 2026-08-12	Gamma; Lognormal; Normal	Normal	776	800	480	1100	195	0.251	-0.0434
38_1_4_101	MW-28	Appendix IV	Antimony	mg/L	10	0	0%	2024-04-07 to 2026-08-12	Gamma; Lognormal; Normal	Normal	0.000591	0.000320	0.000140	0.00210	0.000626	1.06	1.88
38_1_4_102	MW-28	Appendix IV	Arsenic	mg/L	10	0	0%	2024-04-07 to 2026-08-12	Gamma; Lognormal	Gamma	0.00235	0.00165	0.000760	0.00720	0.00193	0.824	2.08
38_1_4_103	MW-28	Appendix IV	Barium	mg/L	10	0	0%	2024-04-07 to 2026-08-12	Normal	Normal	0.558	0.670	0.150	0.760	0.228	0.409	-0.720
38_1_4_106	MW-28	Appendix IV	Cadmium	mg/L	10	5	50%	2024-04-07 to 2026-08-12	Gamma; Lognormal	Nonparametric	0.00104	0.000640	0.0000800	0.00370	0.00151	1.45	2.03
38_1_4_109	MW-28	Appendix IV	Chromium, Total	mg/L	10	0	0%	2024-04-07 to 2026-08-12	Gamma; Lognormal; Normal	Normal	0.0103	0.00925	0.00180	0.0170	0.00522	0.506	-0.162
38_1_4_110	MW-28	Appendix IV	Cobalt	mg/L	10	0	0%	2024-04-07 to 2026-08-12	Gamma; Lognormal; Normal	Normal	0.00155	0.00165	0.000240	0.00310	0.00107	0.686	0.0290

(Table continues on next page)

Table 2: Summary Statistics, Non-Detects Excluded *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness
38_1_4_113	MW-28	Appendix IV	Fluoride (App IV)	mg/L	10	0	0%	2024-04-07 to 2026-08-12	Gamma; Lognormal; Normal	Normal	1.13	1.14	0.400	2.00	0.485	0.428	0.104
38_1_4_115	MW-28	Appendix IV	Lead	mg/L	10	0	0%	2024-04-07 to 2026-08-12	Gamma; Lognormal; Normal	Gamma	0.00620	0.00280	0.000340	0.0250	0.00798	1.29	1.81
38_1_4_116	MW-28	Appendix IV	Lithium	mg/L	10	0	0%	2024-04-07 to 2026-08-12	Gamma; Lognormal; Normal	Gamma	0.0839	0.0840	0.00460	0.150	0.0534	0.637	-0.192
38_1_4_117	MW-28	Appendix IV	Mercury	ng/L	10	3	30%	2024-04-07 to 2026-08-12	Gamma; Lognormal	Gamma	46.9	7.50	0.550	240	86.3	1.84	2.50
38_1_4_118	MW-28	Appendix IV	Molybdenum	mg/L	10	0	0%	2024-04-07 to 2026-08-12	Gamma; Lognormal; Normal	Normal	0.00335	0.00240	0.000540	0.00870	0.00249	0.742	1.09
38_1_4_121	MW-28	Appendix IV	Radium 226 and 228	pCi/L	9	2	22%	2024-04-07 to 2026-08-12	Nonparametric	Nonparametric	0.916	0.826	0.700	1.26	0.240	0.261	1.06
38_1_4_122	MW-28	Appendix IV	Selenium	mg/L	10	0	0%	2024-04-07 to 2026-08-12	Nonparametric	Nonparametric	0.000449	0.000295	0.000240	0.00170	0.000443	0.988	3.06
38_1_5_111	MW-28	Part 115	Copper	mg/L	10	1	10%	2024-04-07 to 2026-08-12	Gamma; Lognormal	Gamma	0.00254	0.00130	0.000370	0.00980	0.00306	1.20	2.0
38_1_5_114	MW-28	Part 115	Iron	mg/L	10	0	0%	2024-04-07 to 2026-08-12	Normal	Normal	32.3	38.0	1.50	47.0	15.7	0.486	-1.14
38_1_5_119	MW-28	Part 115	Nickel	mg/L	10	0	0%	2024-04-07 to 2026-08-12	Gamma; Lognormal; Normal	Normal	0.00386	0.00385	0.000460	0.00730	0.00253	0.656	0.0688
38_1_5_128	MW-28	Part 115	Vanadium	mg/L	10	2	20%	2024-04-07 to 2026-08-12	Gamma; Lognormal; Normal	Normal	0.000776	0.000725	0.000500	0.00120	0.000225	0.290	0.995
38_1_5_129	MW-28	Part 115	Zinc	mg/L	10	0	0%	2024-04-07 to 2026-08-12	Gamma; Lognormal; Normal	Gamma	0.0751	0.0550	0.00140	0.280	0.0834	1.11	1.82
40_1_3_105	MW-30	Appendix III	Boron	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Lognormal	Gamma	1.90	1.90	1.30	3.50	0.442	0.233	2.49
40_1_3_107	MW-30	Appendix III	Calcium	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Nonparametric	Nonparametric	493	460	62.0	960	171	0.346	0.466
40_1_3_108	MW-30	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Nonparametric	Nonparametric	407	190	82.0	1200	403	0.991	1.09
40_1_3_112	MW-30	Appendix III	Fluoride	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Nonparametric	Nonparametric	1.08	1.10	0.570	1.40	0.173	0.161	-1.18
40_1_3_120	MW-30	Appendix III	pH (field)	su	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Lognormal; Normal	Normal	7.04	7.05	6.48	7.25	0.176	0.0251	-1.73
40_1_3_124	MW-30	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Normal	Normal	828	855	440	1000	161	0.195	-0.970
40_1_3_126	MW-30	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Nonparametric	Nonparametric	2615	2300	1800	4300	722	0.276	1.38
40_1_4_101	MW-30	Appendix IV	Antimony	mg/L	20	16	80%	2022-11-30 to 2026-08-11		Nonparametric	0.000682	0.000565	0.000400	0.00120	0.000360	0.528	1.53
40_1_4_102	MW-30	Appendix IV	Arsenic	mg/L	20	2	10%	2022-11-30 to 2026-08-11	Gamma; Lognormal	Gamma	0.00131	0.000665	0.000120	0.00800	0.00184	1.40	3.16
40_1_4_103	MW-30	Appendix IV	Barium	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.0687	0.0640	0.0410	0.110	0.0209	0.305	0.621
40_1_4_104	MW-30	Appendix IV	Beryllium	mg/L	20	16	80%	2022-11-30 to 2026-08-11		Nonparametric	0.0000735	0.0000655	0.0000530	0.000110	0.0000252	0.343	1.60
40_1_4_106	MW-30	Appendix IV	Cadmium	mg/L	20	19	95%	2022-11-30 to 2026-08-11		Nonparametric	0.000320	0.000320	0.000320	0.000320	NA	NA	NA
40_1_4_109	MW-30	Appendix IV	Chromium, Total	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.00919	0.00840	0.00310	0.0230	0.00450	0.490	1.47
40_1_4_110	MW-30	Appendix IV	Cobalt	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Nonparametric	Nonparametric	0.00367	0.00103	0.000380	0.0460	0.0101	2.74	4.34
40_1_4_113	MW-30	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Nonparametric	Nonparametric	1.08	1.10	0.570	1.40	0.173	0.161	-1.18
40_1_4_115	MW-30	Appendix IV	Lead	mg/L	20	18	90%	2022-11-30 to 2026-08-11		Nonparametric	0.0299	0.0299	0.00170	0.0580	0.0398	1.33	NA
40_1_4_116	MW-30	Appendix IV	Lithium	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.139	0.125	0.0860	0.270	0.0406	0.293	1.89
40_1_4_117	MW-30	Appendix IV	Mercury	ng/L	20	18	90%	2022-11-30 to 2026-08-11		Nonparametric	195	195	0.230	390	276	1.41	NA
40_1_4_118	MW-30	Appendix IV	Molybdenum	mg/L	20	3	15%	2022-11-30 to 2026-08-11	Nonparametric	Nonparametric	0.00439	0.00130	0.000320	0.0320	0.00836	1.90	2.87
40_1_4_121	MW-30	Appendix IV	Radium 226 and 228	pCi/L	20	11	55%	2022-11-30 to 2026-08-11	Gamma; Lognormal; Normal	Nonparametric	0.671	0.604	0.445	0.911	0.169	0.252	0.252
40_1_4_122	MW-30	Appendix IV	Selenium	mg/L	20	7	35%	2022-11-30 to 2026-08-11	Nonparametric	Nonparametric	0.000270	0.000140	0.000100	0.00150	0.000378	1.40	3.36
40_1_5_111	MW-30	Part 115	Copper	mg/L	20	14	70%	2022-11-30 to 2026-08-11	Nonparametric	Nonparametric	0.00244	0.000325	0.000200	0.0130	0.00518	2.12	2.45
40_1_5_114	MW-30	Part 115	Iron	mg/L	20	0	0%	2022-11-30 to 2026-08-11	Gamma; Lognormal	Gamma	3.79	2.70	0.870	17.0	3.67	0.969	2.75
40_1_5_119	MW-30	Part 115	Nickel	mg/L	20	3	15%	2022-11-30 to 2026-08-11	Nonparametric	Nonparametric	0.00932	0.00180	0.000490	0.110	0.0261	2.80	4.04
40_1_5_123	MW-30	Part 115	Silver	mg/L	20	19	95%	2022-11-30 to 2026-08-11		Nonparametric	0.000120	0.000120	0.000120	0.000120	NA	NA	NA
40_1_5_128	MW-30	Part 115	Vanadium	mg/L	20	16	80%	2022-11-30 to 2026-08-11		Nonparametric	0.00633	0.000445	0.000420	0.0240	0.0118	1.86	2.0
40_1_5_129	MW-30	Part 115	Zinc	mg/L	20	10	50%	2022-11-30 to 2026-08-11	Gamma; Lognormal	Nonparametric	0.0234	0.00595	0.00110	0.100	0.0347	1.48	1.75
41_1_3_105	MW-31	Appendix III	Boron	mg/L	20	0	0%	2022-12-01 to 2026-08-13	Gamma; Lognormal; Normal	Normal	5.18	4.80	3.60	8.20	1.19	0.231	0.975
41_1_3_107	MW-31	Appendix III	Calcium	mg/L	20	0	0%	2022-12-01 to 2026-08-13	Nonparametric	Nonparametric	180	170	130	330	46.6	0.258	2.14
41_1_3_108	MW-31	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	2022-12-01 to 2026-08-13	Nonparametric	Nonparametric	112	110	87.0	170	22.2	0.198	1.89
41_1_3_112	MW-31	Appendix III	Fluoride	mg/L	20	0	0%	2022-12-01 to 2026-08-13	Nonparametric	Nonparametric	4.38	4.60	2.80	5.20	0.662	0.151	-1.11

(Table continues on next page)

Table 2: Summary Statistics, Non-Detects Excluded *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness
41_1_3_120	MW-31	Appendix III	pH (field)	su	20	0	0%	2022-12-01 to 2026-08-13	Gamma; Lognormal; Normal	Normal	7.79	7.80	7.28	8.08	0.175	0.0225	-1.03
41_1_3_124	MW-31	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	2022-12-01 to 2026-08-13	Gamma; Lognormal	Gamma	179	155	19.0	650	140	0.781	2.12
41_1_3_126	MW-31	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	2022-12-01 to 2026-08-13	Nonparametric	Nonparametric	876	810	730	1500	194	0.221	2.44
41_1_4_101	MW-31	Appendix IV	Antimony	mg/L	20	7	35%	2022-12-01 to 2026-08-13	Gamma; Lognormal; Normal	Gamma	0.000459	0.000380	0.0000690	0.00110	0.000405	0.883	0.837
41_1_4_102	MW-31	Appendix IV	Arsenic	mg/L	20	0	0%	2022-12-01 to 2026-08-13	Nonparametric	Nonparametric	0.00223	0.00125	0.000730	0.00910	0.00241	1.08	2.31
41_1_4_103	MW-31	Appendix IV	Barium	mg/L	20	0	0%	2022-12-01 to 2026-08-13	Gamma; Lognormal; Normal	Normal	0.194	0.185	0.0990	0.380	0.0705	0.363	0.995
41_1_4_104	MW-31	Appendix IV	Beryllium	mg/L	20	17	85%	2022-12-01 to 2026-08-13		Nonparametric	0.0000800	0.0000900	0.0000540	0.0000960	0.0000227	0.284	-1.60
41_1_4_106	MW-31	Appendix IV	Cadmium	mg/L	20	19	95%	2022-12-01 to 2026-08-13		Nonparametric	0.0000840	0.0000840	0.0000840	0.0000840	NA	NA	NA
41_1_4_109	MW-31	Appendix IV	Chromium, Total	mg/L	20	0	0%	2022-12-01 to 2026-08-13	Gamma; Lognormal	Gamma	0.00288	0.00235	0.00170	0.00650	0.00128	0.446	1.60
41_1_4_110	MW-31	Appendix IV	Cobalt	mg/L	20	3	15%	2022-12-01 to 2026-08-13	Lognormal	Lognormal	0.000261	0.000180	0.000100	0.00110	0.000231	0.885	3.34
41_1_4_113	MW-31	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	2022-12-01 to 2026-08-13	Nonparametric	Nonparametric	4.38	4.60	2.80	5.20	0.662	0.151	-1.11
41_1_4_115	MW-31	Appendix IV	Lead	mg/L	20	14	70%	2022-12-01 to 2026-08-13	Gamma; Lognormal; Normal	Nonparametric	0.000328	0.000290	0.000250	0.000450	0.0000930	0.283	0.755
41_1_4_116	MW-31	Appendix IV	Lithium	mg/L	20	0	0%	2022-12-01 to 2026-08-13	Gamma; Lognormal	Gamma	0.0545	0.0520	0.0300	0.0950	0.0150	0.275	1.24
41_1_4_117	MW-31	Appendix IV	Mercury	ng/L	20	14	70%	2022-12-01 to 2026-08-13	Gamma; Lognormal; Normal	Nonparametric	1.68	1.65	0.710	2.70	0.659	0.391	0.133
41_1_4_118	MW-31	Appendix IV	Molybdenum	mg/L	20	0	0%	2022-12-01 to 2026-08-13	Nonparametric	Nonparametric	0.00286	0.00130	0.000400	0.0130	0.00344	1.20	1.99
41_1_4_121	MW-31	Appendix IV	Radium 226 and 228	pCi/L	20	8	40%	2022-12-01 to 2026-08-13	Gamma; Lognormal	Gamma	0.705	0.623	0.482	1.23	0.239	0.338	1.60
41_1_4_122	MW-31	Appendix IV	Selenium	mg/L	20	6	30%	2022-12-01 to 2026-08-13	Nonparametric	Nonparametric	0.00301	0.000155	0.000100	0.0380	0.0101	3.35	3.74
41_1_4_125	MW-31	Appendix IV	Thallium	mg/L	20	19	95%	2022-12-01 to 2026-08-13		Nonparametric	0.0000880	0.0000880	0.0000880	0.0000880	NA	NA	NA
41_1_5_111	MW-31	Part 115	Copper	mg/L	20	10	50%	2022-12-01 to 2026-08-13	Nonparametric	Nonparametric	0.000832	0.000340	0.000230	0.00320	0.000965	1.16	2.01
41_1_5_114	MW-31	Part 115	Iron	mg/L	20	0	0%	2022-12-01 to 2026-08-13	Gamma; Lognormal	Gamma	1.12	0.640	0.120	5.70	1.47	1.31	2.23
41_1_5_119	MW-31	Part 115	Nickel	mg/L	20	10	50%	2022-12-01 to 2026-08-13	Gamma; Lognormal	Nonparametric	0.116	0.0170	0.00140	0.640	0.202	1.74	2.33
41_1_5_128	MW-31	Part 115	Vanadium	mg/L	20	12	60%	2022-12-01 to 2026-08-13	Gamma; Lognormal; Normal	Nonparametric	0.000646	0.000665	0.000450	0.000830	0.000136	0.211	-0.348
41_1_5_129	MW-31	Part 115	Zinc	mg/L	20	9	45%	2022-12-01 to 2026-08-13	Gamma; Lognormal; Normal	Gamma	0.0116	0.0100	0.00140	0.0290	0.0104	0.897	0.726
42_1_3_105	MW-32	Appendix III	Boron	mg/L	20	0	0%	2022-11-30 to 2026-08-12	Lognormal	Lognormal	3.74	3.45	2.60	5.70	0.957	0.256	0.899
42_1_3_107	MW-32	Appendix III	Calcium	mg/L	20	0	0%	2022-11-30 to 2026-08-12	Gamma; Lognormal; Normal	Normal	177	175	130	230	28.5	0.161	0.428
42_1_3_108	MW-32	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	2022-11-30 to 2026-08-12	Gamma; Lognormal; Normal	Normal	45.2	46.5	28.0	61.0	7.21	0.159	-0.352
42_1_3_112	MW-32	Appendix III	Fluoride	mg/L	20	0	0%	2022-11-30 to 2026-08-12	Gamma; Lognormal; Normal	Normal	1.46	1.50	1.10	1.90	0.204	0.140	0.106
42_1_3_120	MW-32	Appendix III	pH (field)	su	20	0	0%	2022-11-30 to 2026-08-12	Gamma; Lognormal; Normal	Normal	7.58	7.58	7.20	7.75	0.125	0.0165	-1.61
42_1_3_124	MW-32	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	2022-11-30 to 2026-08-12	Gamma; Lognormal; Normal	Gamma	93.5	75.0	5.90	340	89.4	0.956	1.28
42_1_3_126	MW-32	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	2022-11-30 to 2026-08-12	Gamma; Lognormal; Normal	Normal	700	690	550	870	94.6	0.135	0.105
42_1_4_101	MW-32	Appendix IV	Antimony	mg/L	20	16	80%	2022-11-30 to 2026-08-12		Nonparametric	0.000245	0.000106	0.0000670	0.000700	0.000305	1.25	1.93
42_1_4_102	MW-32	Appendix IV	Arsenic	mg/L	20	0	0%	2022-11-30 to 2026-08-12	Nonparametric	Nonparametric	0.000601	0.000515	0.000380	0.00240	0.000431	0.717	4.21
42_1_4_103	MW-32	Appendix IV	Barium	mg/L	20	0	0%	2022-11-30 to 2026-08-12	Gamma; Lognormal; Normal	Normal	0.608	0.570	0.0590	1.40	0.366	0.602	0.773
42_1_4_104	MW-32	Appendix IV	Beryllium	mg/L	20	19	95%	2022-11-30 to 2026-08-12		Nonparametric	0.0000700	0.0000700	0.0000700	0.0000700	NA	NA	NA
42_1_4_106	MW-32	Appendix IV	Cadmium	mg/L	20	16	80%	2022-11-30 to 2026-08-12		Nonparametric	0.000215	0.000195	0.000110	0.000360	0.000105	0.487	1.09
42_1_4_109	MW-32	Appendix IV	Chromium, Total	mg/L	20	0	0%	2022-11-30 to 2026-08-12	Nonparametric	Nonparametric	0.000534	0.000375	0.000310	0.00300	0.000588	1.10	4.29
42_1_4_110	MW-32	Appendix IV	Cobalt	mg/L	20	0	0%	2022-11-30 to 2026-08-12	Nonparametric	Nonparametric	0.000625	0.000435	0.000210	0.00280	0.000621	0.993	2.95
42_1_4_113	MW-32	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	2022-11-30 to 2026-08-12	Gamma; Lognormal; Normal	Normal	1.46	1.50	1.10	1.90	0.204	0.140	0.106
42_1_4_115	MW-32	Appendix IV	Lead	mg/L	20	15	75%	2022-11-30 to 2026-08-12	Lognormal; Normal	Nonparametric	0.000290	0.000380	0.000120	0.000420	0.000147	0.507	-0.573
42_1_4_116	MW-32	Appendix IV	Lithium	mg/L	20	0	0%	2022-11-30 to 2026-08-12	Gamma; Lognormal; Normal	Normal	0.132	0.130	0.0940	0.200	0.0318	0.242	0.631
42_1_4_117	MW-32	Appendix IV	Mercury	ng/L	20	15	75%	2022-11-30 to 2026-08-12	Nonparametric	Nonparametric	381	0.730	0.340	1900	849	2.23	2.24
42_1_4_118	MW-32	Appendix IV	Molybdenum	mg/L	20	0	0%	2022-11-30 to 2026-08-12	Gamma; Lognormal; Normal	Normal	0.00364	0.00360	0.00110	0.00730	0.00139	0.383	0.549
42_1_4_121	MW-32	Appendix IV	Radium 226 and 228	pCi/L	20	9	45%	2022-11-30 to 2026-08-12	Gamma; Lognormal; Normal	Normal	0.708	0.688	0.404	0.985	0.168	0.237	-0.0895

(Table continues on next page)

Table 2: Summary Statistics, Non-Detects Excluded *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness
42_1_4_122	MW-32	Appendix IV	Selenium	mg/L	20	16	80%	2022-11-30 to 2026-08-12		Nonparametric	0.000342	0.000135	0.000100	0.00100	0.000439	1.28	1.99
42_1_5_111	MW-32	Part 115	Copper	mg/L	20	12	60%	2022-11-30 to 2026-08-12	Nonparametric	Nonparametric	0.00227	0.000315	0.000200	0.0160	0.00555	2.45	2.83
42_1_5_114	MW-32	Part 115	Iron	mg/L	20	0	0%	2022-11-30 to 2026-08-12	Gamma; Lognormal; Normal	Normal	16.6	16.5	11.0	25.0	3.68	0.221	0.432
42_1_5_119	MW-32	Part 115	Nickel	mg/L	20	0	0%	2022-11-30 to 2026-08-12	Nonparametric	Nonparametric	0.00274	0.00100	0.000680	0.0230	0.00527	1.93	3.51
42_1_5_129	MW-32	Part 115	Zinc	mg/L	20	0	0%	2022-11-30 to 2026-08-12	Nonparametric	Nonparametric	0.0178	0.00415	0.00220	0.0680	0.0224	1.26	1.24
46_1_3_105	MW-36	Appendix III	Boron	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.414	0.410	0.250	0.610	0.130	0.315	0.139
46_1_3_107	MW-36	Appendix III	Calcium	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	68.6	71.0	56.0	81.0	7.41	0.108	-0.247
46_1_3_108	MW-36	Appendix III	Chloride (as Cl)	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	29.5	32.0	15.0	39.0	8.18	0.277	-0.864
46_1_3_112	MW-36	Appendix III	Fluoride	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.682	0.660	0.530	0.920	0.135	0.198	0.914
46_1_3_120	MW-36	Appendix III	pH (field)	su	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	9.08	9.10	7.07	10.4	0.885	0.0975	-1.02
46_1_3_124	MW-36	Appendix III	Sulfate (as SO4)	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	12.2	10.0	5.70	21.0	6.03	0.494	0.498
46_1_3_126	MW-36	Appendix III	Total Dissolved Solids	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	427	435	330	480	46.2	0.108	-0.952
46_1_4_101	MW-36	Appendix IV	Antimony	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Lognormal	Lognormal	0.00121	0.000810	0.000570	0.00290	0.000739	0.612	1.63
46_1_4_102	MW-36	Appendix IV	Arsenic	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Nonparametric	Nonparametric	0.0146	0.0120	0.00710	0.0290	0.00784	0.539	1.51
46_1_4_103	MW-36	Appendix IV	Barium	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.196	0.195	0.130	0.250	0.0414	0.211	-0.102
46_1_4_104	MW-36	Appendix IV	Beryllium	mg/L	10	9	90%	2024-04-08 to 2026-08-11		Nonparametric	0.0000590	0.0000590	0.0000590	0.0000590	NA	NA	NA
46_1_4_106	MW-36	Appendix IV	Cadmium	mg/L	10	2	20%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.000292	0.000195	0.0000940	0.000820	0.000246	0.842	1.70
46_1_4_109	MW-36	Appendix IV	Chromium, Total	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.00147	0.00120	0.000630	0.00310	0.000712	0.484	1.44
46_1_4_110	MW-36	Appendix IV	Cobalt	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.000203	0.000180	0.000140	0.000280	0.0000517	0.254	0.638
46_1_4_113	MW-36	Appendix IV	Fluoride (App IV)	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.682	0.660	0.530	0.920	0.135	0.198	0.914
46_1_4_115	MW-36	Appendix IV	Lead	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.0170	0.0110	0.00450	0.0510	0.0149	0.876	1.56
46_1_4_116	MW-36	Appendix IV	Lithium	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.00953	0.00960	0.00420	0.0140	0.00311	0.326	-0.389
46_1_4_117	MW-36	Appendix IV	Mercury	ng/L	10	4	40%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	6.98	5.90	3.90	11.0	2.82	0.403	0.698
46_1_4_118	MW-36	Appendix IV	Molybdenum	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.0262	0.0240	0.0170	0.0420	0.00868	0.331	0.774
46_1_4_121	MW-36	Appendix IV	Radium 226 and 228	pCi/L	9	7	78%	2024-04-08 to 2026-08-11		Nonparametric	0.705	0.705	0.466	0.943	0.337	0.479	NA
46_1_4_122	MW-36	Appendix IV	Selenium	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.000595	0.000620	0.000350	0.000900	0.000155	0.261	0.418
46_1_5_111	MW-36	Part 115	Copper	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.00629	0.00360	0.00180	0.0190	0.00546	0.868	1.60
46_1_5_114	MW-36	Part 115	Iron	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.614	0.480	0.280	1.10	0.296	0.482	0.549
46_1_5_119	MW-36	Part 115	Nickel	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.00579	0.00550	0.00250	0.0110	0.00246	0.424	0.981
46_1_5_123	MW-36	Part 115	Silver	mg/L	10	1	10%	2024-04-08 to 2026-08-11	Gamma; Lognormal	Gamma	0.000164	0.000110	0.0000510	0.000570	0.000166	1.01	2.21
46_1_5_128	MW-36	Part 115	Vanadium	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.00340	0.00305	0.00240	0.00520	0.00102	0.301	1.21
46_1_5_129	MW-36	Part 115	Zinc	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.0125	0.0111	0.00380	0.0240	0.00761	0.607	0.431
47_1_3_105	MW-37	Appendix III	Boron	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	3.56	3.80	0.900	5.90	1.55	0.435	-0.216
47_1_3_107	MW-37	Appendix III	Calcium	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	147	140	110	200	25	0.170	0.748
47_1_3_108	MW-37	Appendix III	Chloride (as Cl)	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	17.1	15.0	3.00	40.0	11.2	0.653	0.847
47_1_3_112	MW-37	Appendix III	Fluoride	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.504	0.500	0.390	0.630	0.0821	0.163	0.0788
47_1_3_120	MW-37	Appendix III	pH (field)	su	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	7.31	7.26	7.10	7.56	0.161	0.0221	0.327
47_1_3_124	MW-37	Appendix III	Sulfate (as SO4)	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	208	220	110	320	73.3	0.352	-0.156
47_1_3_126	MW-37	Appendix III	Total Dissolved Solids	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	707	710	530	840	97.6	0.138	-0.395
47_1_4_101	MW-37	Appendix IV	Antimony	mg/L	10	1	10%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.000378	0.000230	0.000110	0.00120	0.000349	0.925	1.97
47_1_4_102	MW-37	Appendix IV	Arsenic	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.000648	0.000625	0.000460	0.00110	0.000187	0.289	1.65
47_1_4_103	MW-37	Appendix IV	Barium	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.0612	0.0615	0.0350	0.0980	0.0204	0.334	0.417
47_1_4_104	MW-37	Appendix IV	Beryllium	mg/L	10	9	90%	2024-04-08 to 2026-08-11		Nonparametric	0.0000760	0.0000760	0.0000760	0.0000760	NA	NA	NA

(Table continues on next page)

Table 2: Summary Statistics, Non-Detects Excluded *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness
47_1_4_106	MW-37	Appendix IV	Cadmium	mg/L	10	5	50%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Nonparametric	0.000116	0.000120	0.0000900	0.000130	0.0000167	0.144	-1.09
47_1_4_109	MW-37	Appendix IV	Chromium, Total	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Lognormal	Lognormal	0.000502	0.000345	0.000220	0.00150	0.000399	0.796	2.12
47_1_4_110	MW-37	Appendix IV	Cobalt	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.000488	0.000475	0.000250	0.000760	0.000172	0.352	0.423
47_1_4_113	MW-37	Appendix IV	Fluoride (App IV)	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.504	0.500	0.390	0.630	0.0821	0.163	0.0788
47_1_4_115	MW-37	Appendix IV	Lead	mg/L	10	2	20%	2024-04-08 to 2026-08-11	Gamma; Lognormal	Gamma	0.00161	0.000345	0.000110	0.0100	0.00341	2.12	2.76
47_1_4_116	MW-37	Appendix IV	Lithium	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.0184	0.0175	0.00930	0.0370	0.00855	0.465	1.11
47_1_4_117	MW-37	Appendix IV	Mercury	ng/L	10	4	40%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	2.57	1.70	1.10	6.50	2.01	0.782	2.06
47_1_4_118	MW-37	Appendix IV	Molybdenum	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.0105	0.00945	0.00640	0.0180	0.00388	0.369	0.805
47_1_4_121	MW-37	Appendix IV	Radium 226 and 228	pCi/L	10	5	50%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Nonparametric	0.694	0.638	0.536	0.946	0.176	0.253	0.769
47_1_4_122	MW-37	Appendix IV	Selenium	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal	Gamma	0.00238	0.00110	0.000470	0.00950	0.00281	1.18	2.16
47_1_4_125	MW-37	Appendix IV	Thallium	mg/L	10	9	90%	2024-04-08 to 2026-08-11		Nonparametric	0.0000890	0.0000890	0.0000890	0.0000890	NA	NA	NA
47_1_5_111	MW-37	Part 115	Copper	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal	Gamma	0.0135	0.0125	0.00520	0.0410	0.0103	0.764	2.48
47_1_5_114	MW-37	Part 115	Iron	mg/L	10	1	10%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Gamma	1.19	0.900	0.0260	3.40	1.24	1.05	0.628
47_1_5_119	MW-37	Part 115	Nickel	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.00333	0.00335	0.00170	0.00520	0.00112	0.337	0.000557
47_1_5_123	MW-37	Part 115	Silver	mg/L	10	9	90%	2024-04-08 to 2026-08-11		Nonparametric	0.000170	0.000170	0.000170	0.000170	NA	NA	NA
47_1_5_128	MW-37	Part 115	Vanadium	mg/L	10	5	50%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Nonparametric	0.000494	0.000390	0.000300	0.000730	0.000192	0.390	0.508
47_1_5_129	MW-37	Part 115	Zinc	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.0175	0.0170	0.00970	0.0280	0.00649	0.371	0.673
48_2_3_105	MW-38	Appendix III	Boron	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Normal	Gamma	1.45	1.45	0.0220	3.00	0.935	0.643	0.0424
48_2_3_107	MW-38	Appendix III	Calcium	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Nonparametric	Nonparametric	193	93.5	61.0	630	214	1.11	1.75
48_2_3_108	MW-38	Appendix III	Chloride (as Cl)	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	33.5	32.5	10.0	58.0	18.3	0.547	0.0358
48_2_3_112	MW-38	Appendix III	Fluoride	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.940	0.855	0.590	1.80	0.356	0.378	1.72
48_2_3_120	MW-38	Appendix III	pH (field)	su	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	9.76	9.20	8.33	13.0	1.37	0.140	1.80
48_2_3_124	MW-38	Appendix III	Sulfate (as SO4)	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Normal	Normal	145	145	15.0	280	79.5	0.549	-0.0711
48_2_3_126	MW-38	Appendix III	Total Dissolved Solids	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	731	600	350	1800	433	0.592	1.88
48_2_4_101	MW-38	Appendix IV	Antimony	mg/L	10	2	20%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.00132	0.00120	0.000310	0.00300	0.000855	0.648	1.02
48_2_4_102	MW-38	Appendix IV	Arsenic	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.00447	0.00415	0.000570	0.0100	0.00272	0.608	0.758
48_2_4_103	MW-38	Appendix IV	Barium	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal	Gamma	0.143	0.0915	0.0360	0.570	0.157	1.10	2.70
48_2_4_104	MW-38	Appendix IV	Beryllium	mg/L	10	7	70%	2024-04-08 to 2026-08-11		Nonparametric	0.0000707	0.0000670	0.0000550	0.0000900	0.0000178	0.252	0.888
48_2_4_106	MW-38	Appendix IV	Cadmium	mg/L	10	4	40%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Nonparametric	0.000303	0.000265	0.0000960	0.000550	0.000193	0.639	0.278
48_2_4_109	MW-38	Appendix IV	Chromium, Total	mg/L	10	1	10%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.00812	0.00720	0.00280	0.0160	0.00476	0.587	0.475
48_2_4_110	MW-38	Appendix IV	Cobalt	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Lognormal	Lognormal	0.000776	0.000540	0.000250	0.00310	0.000840	1.08	2.83
48_2_4_113	MW-38	Appendix IV	Fluoride (App IV)	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.940	0.855	0.590	1.80	0.356	0.378	1.72
48_2_4_115	MW-38	Appendix IV	Lead	mg/L	10	1	10%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Gamma	0.0315	0.0150	0.00210	0.0860	0.0328	1.04	0.883
48_2_4_116	MW-38	Appendix IV	Lithium	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.108	0.109	0.0470	0.200	0.0438	0.406	0.710
48_2_4_117	MW-38	Appendix IV	Mercury	ng/L	10	4	40%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	22.1	24.0	9.30	32.0	9.30	0.422	-0.450
48_2_4_118	MW-38	Appendix IV	Molybdenum	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.0132	0.0114	0.00100	0.0250	0.00849	0.641	0.344
48_2_4_121	MW-38	Appendix IV	Radium 226 and 228	pCi/L	9	5	56%	2024-04-08 to 2026-08-11		Nonparametric	0.803	0.833	0.468	1.08	0.261	0.325	-0.567
48_2_4_122	MW-38	Appendix IV	Selenium	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.000892	0.000805	0.000120	0.00200	0.000533	0.597	0.924
48_2_5_111	MW-38	Part 115	Copper	mg/L	10	1	10%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Gamma	0.0126	0.00630	0.000980	0.0310	0.0112	0.891	0.590
48_2_5_114	MW-38	Part 115	Iron	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Gamma	0.822	0.450	0.0320	3.30	0.979	1.19	2.08
48_2_5_119	MW-38	Part 115	Nickel	mg/L	10	0	0%	2024-04-08 to 2026-08-11	Gamma; Lognormal	Gamma	0.00782	0.00600	0.000710	0.0270	0.00735	0.939	2.27
48_2_5_123	MW-38	Part 115	Silver	mg/L	10	6	60%	2024-04-08 to 2026-08-11		Nonparametric	0.000149	0.000170	0.0000650	0.000190	0.0000589	0.396	-1.46
48_2_5_128	MW-38	Part 115	Vanadium	mg/L	10	2	20%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.00961	0.00905	0.00490	0.0150	0.00400	0.416	0.191

(Table continues on next page)

Table 2: Summary Statistics, Non-Detects Excluded *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness
48_2_5_129	MW-38	Part 115	Zinc	mg/L	10	1	10%	2024-04-08 to 2026-08-11	Gamma; Lognormal; Normal	Normal	0.0175	0.0150	0.00380	0.0450	0.0131	0.748	1.11

Table 3: Goodness-of-Fit Tests, Non-Detects Excluded

								Normal				Lognormal				Gamma						
								S-W		Lilliefors		S-W		Lilliefors		K-S		A-D				
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Log-SD (NDs excl.)	ProUCL Distributions Fit	Recommended Distribution
11_2_3_105	MW-01R	Appendix III	Boron	mg/L	20	0	0%	0.950	0.367	0.113	0.718	0.905	0.050	0.176	0.109	0.154	>= 0.10	0.537	>= 0.10	0.395	Gamma; Lognormal; Normal	Normal
11_2_3_107	MW-01R	Appendix III	Calcium	mg/L	20	0	0%	0.923	0.112	0.136	0.435	0.969	0.732	0.093	0.919	0.101	>= 0.10	0.286	>= 0.10	0.338	Gamma; Lognormal; Normal	Normal
11_2_3_108	MW-01R	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	0.952	0.393	0.157	0.219	0.884	0.021	0.192	0.052	0.178	>= 0.10	0.734	0.05 <= p < 0.10	0.452	Gamma; Lognormal; Normal	Normal
11_2_3_112	MW-01R	Appendix III	Fluoride	mg/L	20	0	0%	0.930	0.153	0.215	0.016	0.884	0.021	0.224	0.010	0.228	< 0.01	0.811	0.01 <= p < 0.05	0.347	Normal	Normal
11_2_3_120	MW-01R	Appendix III	pH (field)	su	20	0	0%	0.428	0.000	0.348	0.000	0.407	0.000	0.367	0.000	0.358	< 0.01	4.351	< 0.01	0.056	Nonparametric	Nonparametric
11_2_3_124	MW-01R	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	0.939	0.231	0.123	0.595	0.858	0.007	0.201	0.033	0.141	>= 0.10	0.406	>= 0.10	1.177	Gamma; Normal	Gamma
11_2_3_126	MW-01R	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	0.946	0.313	0.177	0.104	0.944	0.285	0.186	0.068	0.185	0.05 <= p < 0.10	0.572	>= 0.10	0.055	Gamma; Lognormal; Normal	Normal
11_2_4_101	MW-01R	Appendix IV	Antimony	mg/L	20	3	15%	0.566	0.000	0.358	0.000	0.818	0.004	0.244	0.008	0.307	< 0.01	1.757	< 0.01	0.799	Nonparametric	Nonparametric
11_2_4_102	MW-01R	Appendix IV	Arsenic	mg/L	20	0	0%	0.700	0.000	0.238	0.004	0.877	0.015	0.219	0.013	0.203	0.01 <= p < 0.05	1.188	< 0.01	0.356	Nonparametric	Nonparametric
11_2_4_103	MW-01R	Appendix IV	Barium	mg/L	20	0	0%	0.894	0.031	0.140	0.380	0.962	0.588	0.109	0.774	0.127	>= 0.10	0.333	>= 0.10	0.379	Gamma; Lognormal; Normal	Normal
11_2_4_104	MW-01R	Appendix IV	Beryllium	mg/L	20	2	10%	0.912	0.092	0.180	0.129	0.934	0.226	0.153	0.326	0.154	>= 0.10	0.504	>= 0.10	0.440	Gamma; Lognormal; Normal	Normal
11_2_4_106	MW-01R	Appendix IV	Cadmium	mg/L	20	13	65%	0.674	0.002	0.333	0.018	0.967	0.873	0.144	0.932	0.205	>= 0.10	0.414	>= 0.10	1.133	Gamma; Lognormal	Nonparametric
11_2_4_109	MW-01R	Appendix IV	Chromium, Total	mg/L	20	0	0%	0.400	0.000	0.359	0.000	0.768	0.000	0.174	0.116	0.233	< 0.01	2.347	< 0.01	0.638	Lognormal	Lognormal
11_2_4_110	MW-01R	Appendix IV	Cobalt	mg/L	20	0	0%	0.353	0.000	0.449	0.000	0.734	0.000	0.226	0.008	0.352	< 0.01	3.702	< 0.01	1.188	Nonparametric	Nonparametric
11_2_4_113	MW-01R	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	0.930	0.153	0.215	0.016	0.884	0.021	0.224	0.010	0.228	< 0.01	0.811	0.01 <= p < 0.05	0.347	Normal	Normal
11_2_4_115	MW-01R	Appendix IV	Lead	mg/L	20	2	10%	0.701	0.000	0.287	0.000	0.926	0.163	0.175	0.156	0.221	0.01 <= p < 0.05	1.024	0.01 <= p < 0.05	0.890	Lognormal	Lognormal
11_2_4_116	MW-01R	Appendix IV	Lithium	mg/L	20	0	0%	0.947	0.325	0.126	0.550	0.883	0.020	0.172	0.127	0.162	>= 0.10	0.641	0.05 <= p < 0.10	0.385	Gamma; Lognormal; Normal	Normal
11_2_4_117	MW-01R	Appendix IV	Mercury	ng/L	20	16	80%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		1.144		Nonparametric
11_2_4_118	MW-01R	Appendix IV	Molybdenum	mg/L	20	2	10%	0.615	0.000	0.299	0.000	0.886	0.033	0.210	0.034	0.263	< 0.01	1.368	< 0.01	0.856	Nonparametric	Nonparametric
11_2_4_121	MW-01R	Appendix IV	Radium 226 and 228	pCi/L	20	13	65%	0.937	0.615	0.189	0.633	0.924	0.503	0.220	0.386	0.221	>= 0.10	0.302	>= 0.10	0.279	Gamma; Lognormal; Normal	Nonparametric
11_2_4_122	MW-01R	Appendix IV	Selenium	mg/L	20	0	0%	0.641	0.000	0.331	0.000	0.868	0.011	0.224	0.010	0.262	< 0.01	1.606	< 0.01	0.456	Nonparametric	Nonparametric
11_2_4_125	MW-01R	Appendix IV	Thallium	mg/L	20	20	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
11_2_5_111	MW-01R	Part 115	Copper	mg/L	20	6	30%	0.666	0.000	0.341	0.000	0.807	0.006	0.254	0.015	0.302	< 0.01	1.421	< 0.01	0.751	Nonparametric	Nonparametric
11_2_5_114	MW-01R	Part 115	Iron	mg/L	20	0	0%	0.911	0.065	0.178	0.098	0.901	0.043	0.214	0.017	0.166	>= 0.10	0.670	0.05 <= p < 0.10	1.018	Gamma; Normal	Gamma
11_2_5_119	MW-01R	Part 115	Nickel	mg/L	20	0	0%	0.431	0.000	0.406	0.000	0.740	0.000	0.295	0.000	0.379	< 0.01	3.288	< 0.01	1.052	Nonparametric	Nonparametric
11_2_5_123	MW-01R	Part 115	Silver	mg/L	20	20	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
11_2_5_128	MW-01R	Part 115	Vanadium	mg/L	20	2	10%	0.916	0.108	0.216	0.026	0.932	0.208	0.143	0.430	0.151	>= 0.10	0.418	>= 0.10	0.576	Gamma; Lognormal; Normal	Normal
11_2_5_129	MW-01R	Part 115	Zinc	mg/L	20	3	15%	0.588	0.000	0.294	0.000	0.887	0.042	0.204	0.058	0.204	0.05 <= p < 0.10	0.854	0.01 <= p < 0.05	1.574	Gamma; Lognormal	Gamma
12_2_3_105	MW-02	Appendix III	Boron	mg/L	20	0	0%	0.856	0.007	0.277	0.000	0.931	0.158	0.219	0.013	0.237	< 0.01	0.849	0.01 <= p < 0.05	0.287	Lognormal	Lognormal
12_2_3_107	MW-02	Appendix III	Calcium	mg/L	20	0	0%	0.950	0.369	0.153	0.249	0.926	0.127	0.154	0.245	0.165	>= 0.10	0.537	>= 0.10	0.117	Gamma; Lognormal; Normal	Normal
12_2_3_108	MW-02	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	0.650	0.000	0.333	0.000	0.544	0.000	0.366	0.000	0.351	< 0.01	2.701	< 0.01	0.184	Nonparametric	Nonparametric
12_2_3_112	MW-02	Appendix III	Fluoride	mg/L	20	0	0%	0.896	0.034	0.265	0.001	0.847	0.005	0.216	0.015	0.233	< 0.01	1.052	< 0.01	0.259	Nonparametric	Nonparametric
12_2_3_120	MW-02	Appendix III	pH (field)	su	20	0	0%	0.928	0.140	0.151	0.267	0.931	0.158	0.151	0.272	0.155	>= 0.10	0.558	>= 0.10	0.014	Gamma; Lognormal; Normal	Normal
12_2_3_124	MW-02	Appendix III	Sulfate (as SO4)	mg/L	20	10	50%	0.424	0.000	0.443	0.000	0.733	0.002	0.310	0.007	0.398	< 0.01	1.895	< 0.01	1.208	Nonparametric	Nonparametric
12_2_3_126	MW-02	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	0.908	0.059	0.168	0.145	0.939	0.230	0.141	0.373	0.150	>= 0.10	0.462	>= 0.10	0.131	Gamma; Lognormal; Normal	Normal
12_2_4_101	MW-02	Appendix IV	Antimony	mg/L	20	3	15%	0.776	0.001	0.215	0.035	0.943	0.355	0.120	0.739	0.144	>= 0.10	0.582	>= 0.10	0.450	Gamma; Lognormal	Gamma
12_2_4_102	MW-02	Appendix IV	Arsenic	mg/L	20	0	0%	0.943	0.269	0.115	0.693	0.572	0.000	0.294	0.000	0.233	< 0.01	1.710	< 0.01	0.675	Normal	Normal
12_2_4_103	MW-02	Appendix IV	Barium	mg/L	20	0	0%	0.907	0.055	0.167	0.151	0.923	0.113	0.181	0.086	0.167	>= 0.10	0.681	0.05 <= p < 0.10	0.192	Gamma; Lognormal; Normal	Normal
12_2_4_104	MW-02	Appendix IV	Beryllium	mg/L	20	2	10%	0.954	0.485	0.117	0.743	0.981	0.955	0.141	0.452	0.120	>= 0.10	0.199	>= 0.10	0.390	Gamma; Lognormal; Normal	Normal

(Table continues on next page)

Note: p-values above 0.05 suggest a fit to the tested distribution; a distribution passes its GOF test when at least one of the two p-values is above 0.05.

Table 3: Goodness-of-Fit Tests, Non-Detects Excluded *(continued)*

								Normal				Lognormal				Gamma						
								S-W		Lilliefors		S-W		Lilliefors		K-S		A-D				
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Log-SD (NDs excl.)	ProUCL Distributions Fit	Recommended Distribution
12_2_4_106	MW-02	Appendix IV	Cadmium	mg/L	20	14	70%	0.604	0.001	0.435	0.001	0.807	0.068	0.317	0.059	0.381	0.01 <= p < 0.05	0.878	0.01 <= p < 0.05	0.892	Lognormal	Nonparametric
12_2_4_109	MW-02	Appendix IV	Chromium, Total	mg/L	20	0	0%	0.963	0.608	0.107	0.798	0.600	0.000	0.244	0.003	0.183	0.05 <= p < 0.10	1.197	< 0.01	1.129	Gamma; Normal	Gamma
12_2_4_110	MW-02	Appendix IV	Cobalt	mg/L	20	0	0%	0.983	0.967	0.102	0.843	0.679	0.000	0.226	0.009	0.194	0.05 <= p < 0.10	0.918	0.01 <= p < 0.05	0.817	Gamma; Normal	Normal
12_2_4_113	MW-02	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	0.896	0.034	0.265	0.001	0.847	0.005	0.216	0.015	0.233	< 0.01	1.052	< 0.01	0.259	Nonparametric	Nonparametric
12_2_4_115	MW-02	Appendix IV	Lead	mg/L	20	1	5%	0.931	0.184	0.169	0.164	0.918	0.105	0.152	0.294	0.106	>= 0.10	0.301	>= 0.10	0.764	Gamma; Lognormal; Normal	Normal
12_2_4_116	MW-02	Appendix IV	Lithium	mg/L	20	0	0%	0.891	0.028	0.234	0.006	0.951	0.390	0.183	0.077	0.199	0.01 <= p < 0.05	0.599	>= 0.10	0.253	Gamma; Lognormal	Gamma
12_2_4_117	MW-02	Appendix IV	Mercury	ng/L	20	14	70%	0.857	0.179	0.207	0.579	0.940	0.659	0.169	0.853	0.201	>= 0.10	0.306	>= 0.10	0.614	Gamma; Lognormal; Normal	Nonparametric
12_2_4_118	MW-02	Appendix IV	Molybdenum	mg/L	20	0	0%	0.751	0.000	0.216	0.015	0.899	0.040	0.185	0.072	0.165	>= 0.10	0.795	0.01 <= p < 0.05	0.685	Gamma; Lognormal	Gamma
12_2_4_121	MW-02	Appendix IV	Radium 226 and 228	pCi/L	19	6	32%	0.884	0.080	0.184	0.269	0.968	0.873	0.114	0.913	0.143	>= 0.10	0.252	>= 0.10	0.459	Gamma; Lognormal; Normal	Normal
12_2_4_122	MW-02	Appendix IV	Selenium	mg/L	20	0	0%	0.957	0.495	0.164	0.169	0.951	0.380	0.147	0.307	0.122	>= 0.10	0.312	>= 0.10	0.406	Gamma; Lognormal; Normal	Normal
12_2_4_125	MW-02	Appendix IV	Thallium	mg/L	20	19	95%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
12_2_5_111	MW-02	Part 115	Copper	mg/L	20	0	0%	0.935	0.195	0.127	0.547	0.915	0.080	0.120	0.629	0.082	>= 0.10	0.221	>= 0.10	0.679	Gamma; Lognormal; Normal	Normal
12_2_5_114	MW-02	Part 115	Iron	mg/L	20	0	0%	0.960	0.541	0.122	0.612	0.966	0.668	0.112	0.734	0.116	>= 0.10	0.249	>= 0.10	0.161	Gamma; Lognormal; Normal	Normal
12_2_5_119	MW-02	Part 115	Nickel	mg/L	20	0	0%	0.870	0.012	0.243	0.003	0.742	0.000	0.264	0.001	0.203	0.01 <= p < 0.05	0.826	0.01 <= p < 0.05	0.864	Nonparametric	Nonparametric
12_2_5_123	MW-02	Part 115	Silver	mg/L	20	20	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
12_2_5_128	MW-02	Part 115	Vanadium	mg/L	20	1	5%	0.955	0.482	0.117	0.702	0.907	0.065	0.149	0.326	0.148	>= 0.10	0.428	>= 0.10	0.544	Gamma; Lognormal; Normal	Normal
12_2_5_129	MW-02	Part 115	Zinc	mg/L	20	0	0%	0.716	0.000	0.352	0.000	0.828	0.002	0.271	0.000	0.320	< 0.01	1.954	< 0.01	1.143	Nonparametric	Nonparametric
13_2_3_105	MW-03	Appendix III	Boron	mg/L	20	0	0%	0.944	0.279	0.129	0.516	0.933	0.175	0.143	0.356	0.142	>= 0.10	0.475	>= 0.10	0.090	Gamma; Lognormal; Normal	Normal
13_2_3_107	MW-03	Appendix III	Calcium	mg/L	20	0	0%	0.975	0.848	0.143	0.356	0.979	0.921	0.123	0.596	0.128	>= 0.10	0.213	>= 0.10	0.107	Gamma; Lognormal; Normal	Normal
13_2_3_108	MW-03	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	0.899	0.039	0.140	0.387	0.978	0.909	0.097	0.889	0.115	>= 0.10	0.309	>= 0.10	0.350	Gamma; Lognormal; Normal	Normal
13_2_3_112	MW-03	Appendix III	Fluoride	mg/L	20	0	0%	0.621	0.000	0.245	0.003	0.775	0.000	0.226	0.009	0.237	< 0.01	1.652	< 0.01	0.249	Nonparametric	Nonparametric
13_2_3_120	MW-03	Appendix III	pH (field)	su	20	0	0%	0.948	0.343	0.166	0.159	0.951	0.383	0.164	0.168	0.167	>= 0.10	0.412	>= 0.10	0.012	Gamma; Lognormal; Normal	Normal
13_2_3_124	MW-03	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	0.935	0.191	0.119	0.640	0.908	0.057	0.160	0.200	0.127	>= 0.10	0.401	>= 0.10	1.032	Gamma; Lognormal; Normal	Gamma
13_2_3_126	MW-03	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	0.832	0.003	0.201	0.033	0.841	0.004	0.207	0.025	0.211	0.01 <= p < 0.05	1.324	< 0.01	0.141	Nonparametric	Nonparametric
13_2_4_101	MW-03	Appendix IV	Antimony	mg/L	20	14	70%	0.669	0.003	0.366	0.012	0.815	0.080	0.256	0.250	0.299	>= 0.10	0.738	0.01 <= p < 0.05	0.608	Gamma; Lognormal	Nonparametric
13_2_4_102	MW-03	Appendix IV	Arsenic	mg/L	20	0	0%	0.964	0.636	0.130	0.501	0.953	0.408	0.139	0.395	0.143	>= 0.10	0.293	>= 0.10	0.315	Gamma; Lognormal; Normal	Normal
13_2_4_103	MW-03	Appendix IV	Barium	mg/L	20	0	0%	0.936	0.203	0.132	0.482	0.793	0.001	0.196	0.043	0.174	>= 0.10	0.818	0.01 <= p < 0.05	0.278	Gamma; Normal	Normal
13_2_4_104	MW-03	Appendix IV	Beryllium	mg/L	20	13	65%	0.764	0.018	0.346	0.011	0.815	0.057	0.289	0.080	0.320	0.01 <= p < 0.05	0.756	0.01 <= p < 0.05	0.501	Lognormal	Nonparametric
13_2_4_106	MW-03	Appendix IV	Cadmium	mg/L	20	19	95%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
13_2_4_109	MW-03	Appendix IV	Chromium, Total	mg/L	20	0	0%	0.919	0.095	0.198	0.040	0.956	0.468	0.176	0.105	0.189	0.05 <= p < 0.10	0.450	>= 0.10	0.266	Gamma; Lognormal; Normal	Normal
13_2_4_110	MW-03	Appendix IV	Cobalt	mg/L	20	0	0%	0.904	0.048	0.179	0.094	0.952	0.406	0.134	0.450	0.155	>= 0.10	0.439	>= 0.10	0.383	Gamma; Lognormal; Normal	Normal
13_2_4_113	MW-03	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	0.621	0.000	0.245	0.003	0.775	0.000	0.226	0.009	0.237	< 0.01	1.652	< 0.01	0.249	Nonparametric	Nonparametric
13_2_4_115	MW-03	Appendix IV	Lead	mg/L	20	19	95%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
13_2_4_116	MW-03	Appendix IV	Lithium	mg/L	20	0	0%	0.828	0.002	0.211	0.020	0.909	0.061	0.175	0.110	0.190	0.05 <= p < 0.10	0.777	0.01 <= p < 0.05	0.221	Gamma; Lognormal	Gamma
13_2_4_117	MW-03	Appendix IV	Mercury	ng/L	20	15	75%	0.553	0.000	0.472	0.001	0.641	0.002	0.420	0.004	0.484	< 0.01	1.154	< 0.01	2.751	Nonparametric	Nonparametric
13_2_4_118	MW-03	Appendix IV	Molybdenum	mg/L	20	14	70%	0.976	0.931	0.172	0.834	0.975	0.923	0.186	0.741	0.151	>= 0.10	0.182	>= 0.10	0.442	Gamma; Lognormal; Normal	Nonparametric
13_2_4_121	MW-03	Appendix IV	Radium 226 and 228	pCi/L	19	3	16%	0.878	0.036	0.213	0.051	0.958	0.619	0.147	0.469	0.170	>= 0.10	0.464	>= 0.10	0.349	Gamma; Lognormal; Normal	Normal
13_2_4_122	MW-03	Appendix IV	Selenium	mg/L	20	3	15%	0.962	0.672	0.178	0.160	0.905	0.084	0.180	0.149	0.158	>= 0.10	0.429	>= 0.10	0.286	Gamma; Lognormal; Normal	Normal
13_2_4_125	MW-03	Appendix IV	Thallium	mg/L	20	19	95%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric

(Table continues on next page)

Note: p-values above 0.05 suggest a fit to the tested distribution; a distribution passes its GOF test when at least one of the two p-values is above 0.05.

Table 3: Goodness-of-Fit Tests, Non-Detects Excluded *(continued)*

								Normal				Lognormal				Gamma						
								S-W		Lilliefors		S-W		Lilliefors		K-S		A-D				
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Log-SD (NDs excl.)	ProUCL Distributions Fit	Recommended Distribution
13_2_5_111	MW-03	Part 115	Copper	mg/L	20	9	45%	0.797	0.009	0.274	0.021	0.849	0.041	0.248	0.057	0.270	0.01 <= p < 0.05	0.850	0.01 <= p < 0.05	0.586	Lognormal	Lognormal
13_2_5_114	MW-03	Part 115	Iron	mg/L	20	0	0%	0.738	0.000	0.224	0.009	0.972	0.802	0.078	0.987	0.106	>= 0.10	0.311	>= 0.10	1.190	Gamma; Lognormal	Gamma
13_2_5_119	MW-03	Part 115	Nickel	mg/L	20	1	5%	0.338	0.000	0.432	0.000	0.640	0.000	0.276	0.000	0.362	< 0.01	3.453	< 0.01	0.612	Nonparametric	Nonparametric
13_2_5_123	MW-03	Part 115	Silver	mg/L	20	20	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
13_2_5_128	MW-03	Part 115	Vanadium	mg/L	20	9	45%	0.935	0.466	0.169	0.513	0.969	0.878	0.142	0.774	0.143	>= 0.10	0.281	>= 0.10	0.227	Gamma; Lognormal; Normal	Normal
13_2_5_129	MW-03	Part 115	Zinc	mg/L	20	9	45%	0.841	0.033	0.235	0.092	0.794	0.008	0.295	0.008	0.288	0.01 <= p < 0.05	1.067	< 0.01	1.411	Normal	Nonparametric
14_2_3_105	MW-04	Appendix III	Boron	mg/L	20	0	0%	0.803	0.001	0.280	0.000	0.629	0.000	0.328	0.000	0.321	< 0.01	2.320	< 0.01	0.444	Nonparametric	Nonparametric
14_2_3_107	MW-04	Appendix III	Calcium	mg/L	20	0	0%	0.867	0.010	0.166	0.157	0.926	0.128	0.136	0.430	0.145	>= 0.10	0.679	0.05 <= p < 0.10	0.159	Gamma; Lognormal; Normal	Normal
14_2_3_108	MW-04	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	0.961	0.559	0.109	0.775	0.878	0.016	0.212	0.019	0.158	>= 0.10	0.630	>= 0.10	0.905	Gamma; Normal	Normal
14_2_3_112	MW-04	Appendix III	Fluoride	mg/L	20	0	0%	0.913	0.072	0.211	0.020	0.928	0.142	0.169	0.143	0.184	0.05 <= p < 0.10	0.686	0.05 <= p < 0.10	0.236	Gamma; Lognormal; Normal	Normal
14_2_3_120	MW-04	Appendix III	pH (field)	su	20	0	0%	0.909	0.061	0.195	0.046	0.901	0.042	0.200	0.035	0.193	0.01 <= p < 0.05	0.779	0.01 <= p < 0.05	0.026	Normal	Normal
14_2_3_124	MW-04	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	0.931	0.159	0.126	0.554	0.411	0.000	0.380	0.000	0.306	< 0.01	3.091	< 0.01	1.327	Normal	Normal
14_2_3_126	MW-04	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	0.906	0.053	0.173	0.122	0.863	0.009	0.214	0.017	0.198	0.01 <= p < 0.05	0.874	0.01 <= p < 0.05	0.190	Normal	Normal
14_2_4_101	MW-04	Appendix IV	Antimony	mg/L	20	14	70%	0.816	0.081	0.285	0.132	0.850	0.157	0.293	0.109	0.313	0.05 <= p < 0.10	0.598	>= 0.10	0.799	Gamma; Lognormal; Normal	Nonparametric
14_2_4_102	MW-04	Appendix IV	Arsenic	mg/L	20	0	0%	0.531	0.000	0.367	0.000	0.836	0.003	0.221	0.011	0.274	< 0.01	1.913	< 0.01	0.546	Nonparametric	Nonparametric
14_2_4_103	MW-04	Appendix IV	Barium	mg/L	20	0	0%	0.550	0.000	0.307	0.000	0.760	0.000	0.218	0.013	0.247	< 0.01	2.094	< 0.01	0.503	Nonparametric	Nonparametric
14_2_4_104	MW-04	Appendix IV	Beryllium	mg/L	20	17	85%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.275		Nonparametric
14_2_4_106	MW-04	Appendix IV	Cadmium	mg/L	20	20	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
14_2_4_109	MW-04	Appendix IV	Chromium, Total	mg/L	20	0	0%	0.961	0.560	0.141	0.378	0.899	0.040	0.158	0.210	0.130	>= 0.10	0.493	>= 0.10	0.546	Gamma; Lognormal; Normal	Normal
14_2_4_110	MW-04	Appendix IV	Cobalt	mg/L	20	0	0%	0.670	0.000	0.258	0.001	0.947	0.319	0.174	0.117	0.215	0.01 <= p < 0.05	1.031	0.01 <= p < 0.05	0.740	Lognormal	Lognormal
14_2_4_113	MW-04	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	0.913	0.072	0.211	0.020	0.928	0.142	0.169	0.143	0.184	0.05 <= p < 0.10	0.686	0.05 <= p < 0.10	0.236	Gamma; Lognormal; Normal	Normal
14_2_4_115	MW-04	Appendix IV	Lead	mg/L	20	16	80%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.524		Nonparametric
14_2_4_116	MW-04	Appendix IV	Lithium	mg/L	20	0	0%	0.928	0.144	0.125	0.565	0.890	0.026	0.161	0.194	0.153	>= 0.10	0.617	>= 0.10	0.262	Gamma; Lognormal; Normal	Normal
14_2_4_117	MW-04	Appendix IV	Mercury	ng/L	20	16	80%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		1.111		Nonparametric
14_2_4_118	MW-04	Appendix IV	Molybdenum	mg/L	20	2	10%	0.614	0.000	0.357	0.000	0.887	0.034	0.225	0.017	0.298	< 0.01	1.636	< 0.01	1.069	Nonparametric	Nonparametric
14_2_4_121	MW-04	Appendix IV	Radium 226 and 228	pCi/L	20	7	35%	0.886	0.087	0.200	0.164	0.864	0.044	0.188	0.241	0.202	>= 0.10	0.722	0.05 <= p < 0.10	0.344	Gamma; Lognormal; Normal	Normal
14_2_4_122	MW-04	Appendix IV	Selenium	mg/L	20	5	25%	0.587	0.000	0.265	0.006	0.849	0.017	0.206	0.086	0.241	0.01 <= p < 0.05	1.167	< 0.01	0.556	Lognormal	Lognormal
14_2_4_125	MW-04	Appendix IV	Thallium	mg/L	20	20	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
14_2_5_111	MW-04	Part 115	Copper	mg/L	20	14	70%	0.828	0.104	0.289	0.121	0.813	0.077	0.272	0.178	0.300	>= 0.10	0.629	0.05 <= p < 0.10	0.663	Gamma; Lognormal; Normal	Nonparametric
14_2_5_114	MW-04	Part 115	Iron	mg/L	20	0	0%	0.793	0.001	0.221	0.012	0.535	0.000	0.364	0.000	0.333	< 0.01	3.157	< 0.01	0.892	Nonparametric	Nonparametric
14_2_5_119	MW-04	Part 115	Nickel	mg/L	20	0	0%	0.954	0.434	0.124	0.580	0.827	0.002	0.209	0.022	0.182	0.05 <= p < 0.10	0.874	0.01 <= p < 0.05	0.660	Gamma; Normal	Normal
14_2_5_123	MW-04	Part 115	Silver	mg/L	20	20	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
14_2_5_128	MW-04	Part 115	Vanadium	mg/L	20	10	50%	0.940	0.551	0.157	0.693	0.942	0.571	0.147	0.780	0.164	>= 0.10	0.276	>= 0.10	0.315	Gamma; Lognormal; Normal	Nonparametric
14_2_5_129	MW-04	Part 115	Zinc	mg/L	20	10	50%	0.857	0.070	0.236	0.119	0.905	0.247	0.153	0.729	0.165	>= 0.10	0.404	>= 0.10	0.807	Gamma; Lognormal; Normal	Nonparametric
16_1_3_105	MW-06	Appendix III	Boron	mg/L	20	0	0%	0.955	0.446	0.166	0.156	0.938	0.215	0.198	0.039	0.189	0.05 <= p < 0.10	0.484	>= 0.10	0.176	Gamma; Lognormal; Normal	Normal
16_1_3_107	MW-06	Appendix III	Calcium	mg/L	20	0	0%	0.925	0.124	0.159	0.201	0.947	0.318	0.138	0.409	0.148	>= 0.10	0.441	>= 0.10	0.146	Gamma; Lognormal; Normal	Normal
16_1_3_108	MW-06	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	0.926	0.130	0.154	0.243	0.954	0.439	0.205	0.027	0.167	>= 0.10	0.360	>= 0.10	0.666	Gamma; Lognormal; Normal	Normal
16_1_3_112	MW-06	Appendix III	Fluoride	mg/L	20	0	0%	0.933	0.175	0.157	0.222	0.944	0.289	0.151	0.274	0.159	>= 0.10	0.425	>= 0.10	0.167	Gamma; Lognormal; Normal	Normal
16_1_3_120	MW-06	Appendix III	pH (field)	su	20	0	0%	0.664	0.000	0.272	0.000	0.641	0.000	0.284	0.000	0.271	< 0.01	1.971	< 0.01	0.032	Nonparametric	Nonparametric

(Table continues on next page)

Note: p-values above 0.05 suggest a fit to the tested distribution; a distribution passes its GOF test when at least one of the two p-values is above 0.05.

Table 3: Goodness-of-Fit Tests, Non-Detects Excluded *(continued)*

								Normal				Lognormal				Gamma						
								S-W		Lilliefors		S-W		Lilliefors		K-S		A-D				
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Log-SD (NDs excl.)	ProUCL Distributions Fit	Recommended Distribution
16_1_3_124	MW-06	Appendix III	Sulfate (as SO4)	mg/L	20	2	10%	0.614	0.000	0.342	0.000	0.965	0.699	0.130	0.583	0.202	0.05 <= p < 0.10	0.702	0.05 <= p < 0.10	1.222	Gamma; Lognormal	Gamma
16_1_3_126	MW-06	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	0.819	0.002	0.332	0.000	0.807	0.001	0.341	0.000	0.342	< 0.01	1.912	< 0.01	0.067	Nonparametric	Nonparametric
16_1_4_101	MW-06	Appendix IV	Antimony	mg/L	20	17	85%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.835		Nonparametric
16_1_4_102	MW-06	Appendix IV	Arsenic	mg/L	20	0	0%	0.929	0.148	0.153	0.250	0.956	0.465	0.126	0.551	0.133	>= 0.10	0.445	>= 0.10	0.270	Gamma; Lognormal; Normal	Normal
16_1_4_103	MW-06	Appendix IV	Barium	mg/L	20	0	0%	0.850	0.005	0.265	0.001	0.785	0.001	0.290	0.000	0.283	< 0.01	1.520	< 0.01	0.154	Nonparametric	Nonparametric
16_1_4_104	MW-06	Appendix IV	Beryllium	mg/L	20	17	85%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.967		Nonparametric
16_1_4_106	MW-06	Appendix IV	Cadmium	mg/L	20	20	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
16_1_4_109	MW-06	Appendix IV	Chromium, Total	mg/L	20	0	0%	0.842	0.004	0.217	0.014	0.913	0.072	0.157	0.219	0.178	0.05 <= p < 0.10	0.856	0.01 <= p < 0.05	0.306	Gamma; Lognormal	Gamma
16_1_4_110	MW-06	Appendix IV	Cobalt	mg/L	20	0	0%	0.414	0.000	0.349	0.000	0.727	0.000	0.220	0.012	0.258	< 0.01	2.534	< 0.01	0.520	Nonparametric	Nonparametric
16_1_4_113	MW-06	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	0.933	0.175	0.157	0.222	0.944	0.289	0.151	0.274	0.159	>= 0.10	0.425	>= 0.10	0.167	Gamma; Lognormal; Normal	Normal
16_1_4_115	MW-06	Appendix IV	Lead	mg/L	20	10	50%	0.938	0.532	0.133	0.883	0.938	0.533	0.146	0.791	0.126	>= 0.10	0.250	>= 0.10	0.395	Gamma; Lognormal; Normal	Nonparametric
16_1_4_116	MW-06	Appendix IV	Lithium	mg/L	20	0	0%	0.957	0.495	0.127	0.537	0.961	0.574	0.113	0.728	0.116	>= 0.10	0.265	>= 0.10	0.216	Gamma; Lognormal; Normal	Normal
16_1_4_117	MW-06	Appendix IV	Mercury	ng/L	20	15	75%	0.878	0.299	0.226	0.550	0.879	0.305	0.221	0.585	0.250	>= 0.10	0.408	>= 0.10	0.275	Gamma; Lognormal; Normal	Nonparametric
16_1_4_118	MW-06	Appendix IV	Molybdenum	mg/L	20	10	50%	0.423	0.000	0.467	0.000	0.625	0.000	0.284	0.022	0.389	< 0.01	2.159	< 0.01	0.917	Nonparametric	Nonparametric
16_1_4_121	MW-06	Appendix IV	Radium 226 and 228	pCi/L	20	4	20%	0.846	0.012	0.227	0.027	0.954	0.557	0.151	0.421	0.173	>= 0.10	0.509	>= 0.10	0.359	Gamma; Lognormal	Gamma
16_1_4_122	MW-06	Appendix IV	Selenium	mg/L	20	5	25%	0.736	0.001	0.346	0.000	0.835	0.011	0.295	0.001	0.315	< 0.01	1.293	< 0.01	0.298	Nonparametric	Nonparametric
16_1_4_125	MW-06	Appendix IV	Thallium	mg/L	20	19	95%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
16_1_5_111	MW-06	Part 115	Copper	mg/L	20	13	65%	0.504	0.000	0.474	0.000	0.648	0.001	0.388	0.002	0.447	< 0.01	1.516	< 0.01	0.897	Nonparametric	Nonparametric
16_1_5_114	MW-06	Part 115	Iron	mg/L	20	0	0%	0.973	0.820	0.150	0.282	0.879	0.017	0.198	0.039	0.167	>= 0.10	0.492	>= 0.10	0.656	Gamma; Normal	Normal
16_1_5_119	MW-06	Part 115	Nickel	mg/L	20	6	30%	0.490	0.000	0.399	0.000	0.709	0.000	0.287	0.003	0.327	< 0.01	1.950	< 0.01	0.416	Nonparametric	Nonparametric
16_1_5_123	MW-06	Part 115	Silver	mg/L	20	19	95%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
16_1_5_128	MW-06	Part 115	Vanadium	mg/L	20	14	70%	0.560	0.000	0.453	0.000	0.682	0.004	0.376	0.008	0.427	< 0.01	1.186	< 0.01	0.816	Nonparametric	Nonparametric
16_1_5_129	MW-06	Part 115	Zinc	mg/L	20	2	10%	0.714	0.000	0.382	0.000	0.710	0.000	0.350	0.000	0.376	< 0.01	2.538	< 0.01	1.932	Nonparametric	Nonparametric
17_1_3_105	MW-07	Appendix III	Boron	mg/L	20	0	0%	0.891	0.028	0.245	0.003	0.845	0.004	0.269	0.001	0.263	< 0.01	1.108	< 0.01	0.162	Nonparametric	Nonparametric
17_1_3_107	MW-07	Appendix III	Calcium	mg/L	20	0	0%	0.934	0.182	0.214	0.017	0.922	0.106	0.228	0.008	0.226	< 0.01	0.747	0.01 <= p < 0.05	0.086	Lognormal; Normal	Normal
17_1_3_108	MW-07	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	0.896	0.034	0.227	0.008	0.902	0.045	0.221	0.011	0.227	< 0.01	0.800	0.01 <= p < 0.05	0.088	Nonparametric	Nonparametric
17_1_3_112	MW-07	Appendix III	Fluoride	mg/L	20	4	20%	0.917	0.149	0.187	0.142	0.914	0.136	0.237	0.017	0.227	0.01 <= p < 0.05	0.661	0.05 <= p < 0.10	0.354	Gamma; Lognormal; Normal	Normal
17_1_3_120	MW-07	Appendix III	pH (field)	su	20	0	0%	0.897	0.037	0.187	0.065	0.892	0.029	0.191	0.055	0.187	0.05 <= p < 0.10	0.823	0.01 <= p < 0.05	0.017	Gamma; Lognormal; Normal	Normal
17_1_3_124	MW-07	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	0.914	0.076	0.191	0.054	0.917	0.088	0.162	0.185	0.179	0.05 <= p < 0.10	0.668	0.05 <= p < 0.10	0.362	Gamma; Lognormal; Normal	Normal
17_1_3_126	MW-07	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	0.838	0.003	0.163	0.180	0.794	0.001	0.191	0.053	0.176	>= 0.10	1.298	< 0.01	0.123	Gamma; Lognormal; Normal	Normal
17_1_4_101	MW-07	Appendix IV	Antimony	mg/L	20	19	95%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
17_1_4_102	MW-07	Appendix IV	Arsenic	mg/L	20	0	0%	0.961	0.563	0.131	0.497	0.907	0.055	0.179	0.094	0.159	>= 0.10	0.593	>= 0.10	0.237	Gamma; Lognormal; Normal	Normal
17_1_4_103	MW-07	Appendix IV	Barium	mg/L	20	0	0%	0.934	0.187	0.184	0.076	0.905	0.052	0.208	0.024	0.196	0.01 <= p < 0.05	0.599	>= 0.10	0.123	Gamma; Lognormal; Normal	Normal
17_1_4_104	MW-07	Appendix IV	Beryllium	mg/L	20	15	75%	0.697	0.009	0.381	0.017	0.750	0.030	0.342	0.057	0.364	0.01 <= p < 0.05	0.767	0.01 <= p < 0.05	0.325	Lognormal	Nonparametric
17_1_4_106	MW-07	Appendix IV	Cadmium	mg/L	20	20	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
17_1_4_109	MW-07	Appendix IV	Chromium, Total	mg/L	20	0	0%	0.715	0.000	0.195	0.045	0.862	0.009	0.140	0.385	0.154	>= 0.10	0.918	0.01 <= p < 0.05	0.234	Gamma; Lognormal	Gamma
17_1_4_110	MW-07	Appendix IV	Cobalt	mg/L	20	0	0%	0.957	0.479	0.194	0.048	0.966	0.673	0.168	0.146	0.173	>= 0.10	0.405	>= 0.10	0.150	Gamma; Lognormal; Normal	Normal
17_1_4_113	MW-07	Appendix IV	Fluoride (App IV)	mg/L	20	4	20%	0.917	0.149	0.187	0.142	0.914	0.136	0.237	0.017	0.227	0.01 <= p < 0.05	0.661	0.05 <= p < 0.10	0.354	Gamma; Lognormal; Normal	Normal
17_1_4_115	MW-07	Appendix IV	Lead	mg/L	20	20	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric

(Table continues on next page)

Note: p-values above 0.05 suggest a fit to the tested distribution; a distribution passes its GOF test when at least one of the two p-values is above 0.05.

Table 3: Goodness-of-Fit Tests, Non-Detects Excluded *(continued)*

								Normal				Lognormal				Gamma						
								S-W		Lilliefors		S-W		Lilliefors		K-S		A-D				
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Log-SD (NDs excl.)	ProUCL Distributions Fit	Recommended Distribution
17_1_4_116	MW-07	Appendix IV	Lithium	mg/L	20	0	0%	0.957	0.485	0.156	0.226	0.951	0.386	0.164	0.170	0.148	>= 0.10	0.402	>= 0.10	0.267	Gamma; Lognormal; Normal	Normal
17_1_4_117	MW-07	Appendix IV	Mercury	ng/L	20	19	95%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
17_1_4_118	MW-07	Appendix IV	Molybdenum	mg/L	20	20	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
17_1_4_121	MW-07	Appendix IV	Radium 226 and 228	pCi/L	20	2	10%	0.752	0.000	0.242	0.007	0.928	0.180	0.161	0.252	0.181	>= 0.10	0.591	>= 0.10	0.343	Gamma; Lognormal	Gamma
17_1_4_122	MW-07	Appendix IV	Selenium	mg/L	20	9	45%	0.732	0.001	0.318	0.003	0.812	0.014	0.268	0.027	0.285	0.01 <= p < 0.05	0.977	0.01 <= p < 0.05	0.249	Nonparametric	Nonparametric
17_1_4_125	MW-07	Appendix IV	Thallium	mg/L	20	20	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
17_1_5_111	MW-07	Part 115	Copper	mg/L	20	15	75%	0.675	0.005	0.411	0.006	0.752	0.031	0.371	0.023	0.398	0.01 <= p < 0.05	0.827	0.01 <= p < 0.05	0.431	Nonparametric	Nonparametric
17_1_5_114	MW-07	Part 115	Iron	mg/L	20	0	0%	0.953	0.407	0.121	0.620	0.956	0.470	0.131	0.492	0.134	>= 0.10	0.330	>= 0.10	0.159	Gamma; Lognormal; Normal	Normal
17_1_5_119	MW-07	Part 115	Nickel	mg/L	20	14	70%	0.643	0.001	0.421	0.001	0.770	0.031	0.352	0.019	0.388	< 0.01	0.875	0.01 <= p < 0.05	0.546	Nonparametric	Nonparametric
17_1_5_123	MW-07	Part 115	Silver	mg/L	20	20	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
17_1_5_128	MW-07	Part 115	Vanadium	mg/L	20	12	60%	0.926	0.481	0.197	0.478	0.903	0.308	0.226	0.264	0.213	>= 0.10	0.448	>= 0.10	0.165	Gamma; Lognormal; Normal	Nonparametric
17_1_5_129	MW-07	Part 115	Zinc	mg/L	20	10	50%	0.924	0.390	0.166	0.604	0.857	0.070	0.271	0.036	0.250	>= 0.10	0.513	>= 0.10	1.346	Gamma; Lognormal; Normal	Nonparametric
18_1_3_105	MW-08	Appendix III	Boron	mg/L	20	0	0%	0.957	0.485	0.146	0.319	0.914	0.075	0.196	0.043	0.183	0.05 <= p < 0.10	0.644	0.05 <= p < 0.10	0.330	Gamma; Lognormal; Normal	Normal
18_1_3_107	MW-08	Appendix III	Calcium	mg/L	20	0	0%	0.923	0.112	0.159	0.206	0.880	0.017	0.190	0.057	0.174	>= 0.10	0.709	0.05 <= p < 0.10	0.159	Gamma; Lognormal; Normal	Normal
18_1_3_108	MW-08	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	0.674	0.000	0.355	0.000	0.847	0.005	0.235	0.005	0.286	< 0.01	1.847	< 0.01	0.630	Nonparametric	Nonparametric
18_1_3_112	MW-08	Appendix III	Fluoride	mg/L	20	0	0%	0.924	0.119	0.189	0.061	0.850	0.005	0.256	0.001	0.233	< 0.01	1.087	< 0.01	0.327	Normal	Normal
18_1_3_120	MW-08	Appendix III	pH (field)	su	20	0	0%	0.763	0.000	0.220	0.013	0.734	0.000	0.231	0.006	0.220	0.01 <= p < 0.05	1.471	< 0.01	0.040	Nonparametric	Nonparametric
18_1_3_124	MW-08	Appendix III	Sulfate (as SO4)	mg/L	20	5	25%	0.887	0.060	0.178	0.229	0.936	0.337	0.154	0.439	0.120	>= 0.10	0.210	>= 0.10	1.354	Gamma; Lognormal; Normal	Gamma
18_1_3_126	MW-08	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	0.966	0.659	0.138	0.412	0.957	0.489	0.124	0.579	0.111	>= 0.10	0.300	>= 0.10	0.209	Gamma; Lognormal; Normal	Normal
18_1_4_101	MW-08	Appendix IV	Antimony	mg/L	20	12	60%	0.944	0.648	0.195	0.491	0.973	0.920	0.152	0.850	0.171	>= 0.10	0.211	>= 0.10	0.505	Gamma; Lognormal; Normal	Nonparametric
18_1_4_102	MW-08	Appendix IV	Arsenic	mg/L	20	0	0%	0.940	0.244	0.152	0.262	0.846	0.005	0.196	0.042	0.160	>= 0.10	0.812	0.01 <= p < 0.05	0.588	Gamma; Normal	Normal
18_1_4_103	MW-08	Appendix IV	Barium	mg/L	20	0	0%	0.916	0.082	0.150	0.284	0.852	0.006	0.188	0.061	0.176	>= 0.10	0.788	0.01 <= p < 0.05	0.246	Gamma; Lognormal; Normal	Normal
18_1_4_104	MW-08	Appendix IV	Beryllium	mg/L	20	19	95%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
18_1_4_106	MW-08	Appendix IV	Cadmium	mg/L	20	19	95%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
18_1_4_109	MW-08	Appendix IV	Chromium, Total	mg/L	20	0	0%	0.908	0.059	0.157	0.220	0.976	0.866	0.097	0.888	0.120	>= 0.10	0.250	>= 0.10	0.335	Gamma; Lognormal; Normal	Normal
18_1_4_110	MW-08	Appendix IV	Cobalt	mg/L	20	0	0%	0.905	0.052	0.219	0.013	0.949	0.347	0.189	0.059	0.207	0.01 <= p < 0.05	0.643	0.05 <= p < 0.10	0.389	Gamma; Lognormal; Normal	Normal
18_1_4_113	MW-08	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	0.924	0.119	0.189	0.061	0.850	0.005	0.256	0.001	0.233	< 0.01	1.087	< 0.01	0.327	Normal	Normal
18_1_4_115	MW-08	Appendix IV	Lead	mg/L	20	12	60%	0.640	0.000	0.289	0.047	0.917	0.408	0.224	0.281	0.278	>= 0.10	0.612	>= 0.10	1.131	Gamma; Lognormal	Nonparametric
18_1_4_116	MW-08	Appendix IV	Lithium	mg/L	20	0	0%	0.935	0.197	0.133	0.472	0.951	0.386	0.144	0.345	0.140	>= 0.10	0.363	>= 0.10	0.250	Gamma; Lognormal; Normal	Normal
18_1_4_117	MW-08	Appendix IV	Mercury	ng/L	20	18	90%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.434		Nonparametric
18_1_4_118	MW-08	Appendix IV	Molybdenum	mg/L	20	2	10%	0.943	0.321	0.138	0.491	0.927	0.171	0.185	0.108	0.144	>= 0.10	0.367	>= 0.10	0.779	Gamma; Lognormal; Normal	Normal
18_1_4_121	MW-08	Appendix IV	Radium 226 and 228	pCi/L	20	5	25%	0.944	0.440	0.169	0.299	0.982	0.982	0.113	0.875	0.119	>= 0.10	0.174	>= 0.10	0.435	Gamma; Lognormal; Normal	Normal
18_1_4_122	MW-08	Appendix IV	Selenium	mg/L	20	7	35%	0.726	0.001	0.286	0.005	0.837	0.020	0.213	0.110	0.240	0.05 <= p < 0.10	1.137	< 0.01	0.366	Gamma; Lognormal	Gamma
18_1_4_125	MW-08	Appendix IV	Thallium	mg/L	20	19	95%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
18_1_5_111	MW-08	Part 115	Copper	mg/L	20	6	30%	0.883	0.064	0.195	0.160	0.973	0.917	0.133	0.724	0.145	>= 0.10	0.312	>= 0.10	0.355	Gamma; Lognormal; Normal	Normal
18_1_5_114	MW-08	Part 115	Iron	mg/L	20	0	0%	0.949	0.357	0.143	0.351	0.929	0.147	0.174	0.116	0.155	>= 0.10	0.453	>= 0.10	0.462	Gamma; Lognormal; Normal	Normal
18_1_5_119	MW-08	Part 115	Nickel	mg/L	20	0	0%	0.651	0.000	0.247	0.002	0.905	0.052	0.180	0.089	0.209	0.01 <= p < 0.05	1.008	0.01 <= p < 0.05	0.730	Lognormal	Lognormal
18_1_5_123	MW-08	Part 115	Silver	mg/L	20	20	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
18_1_5_128	MW-08	Part 115	Vanadium	mg/L	20	17	85%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.651		Nonparametric

(Table continues on next page)

Note: p-values above 0.05 suggest a fit to the tested distribution; a distribution passes its GOF test when at least one of the two p-values is above 0.05.

Table 3: Goodness-of-Fit Tests, Non-Detects Excluded *(continued)*

								Normal				Lognormal				Gamma						
								S-W		Lilliefors		S-W		Lilliefors		K-S		A-D				
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Log-SD (NDs excl.)	ProUCL Distributions Fit	Recommended Distribution
18_1_5_129	MW-08	Part 115	Zinc	mg/L	20	3	15%	0.759	0.001	0.342	0.000	0.782	0.001	0.255	0.005	0.309	< 0.01	1.693	< 0.01	1.972	Nonparametric	Nonparametric
19_2_3_105	MW-09	Appendix III	Boron	mg/L	20	0	0%	0.842	0.004	0.224	0.010	0.726	0.000	0.291	0.000	0.267	< 0.01	1.633	< 0.01	0.251	Nonparametric	Nonparametric
19_2_3_107	MW-09	Appendix III	Calcium	mg/L	20	0	0%	0.915	0.080	0.182	0.080	0.894	0.032	0.168	0.149	0.179	0.05 <= p < 0.10	0.775	0.01 <= p < 0.05	0.244	Gamma; Lognormal; Normal	Normal
19_2_3_108	MW-09	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	0.793	0.001	0.271	0.000	0.899	0.039	0.183	0.076	0.208	0.01 <= p < 0.05	0.963	0.01 <= p < 0.05	0.724	Lognormal	Lognormal
19_2_3_112	MW-09	Appendix III	Fluoride	mg/L	20	0	0%	0.934	0.185	0.144	0.338	0.897	0.036	0.176	0.107	0.161	>= 0.10	0.572	>= 0.10	0.158	Gamma; Lognormal; Normal	Normal
19_2_3_120	MW-09	Appendix III	pH (field)	su	20	0	0%	0.948	0.339	0.151	0.273	0.949	0.348	0.149	0.294	0.145	>= 0.10	0.516	>= 0.10	0.021	Gamma; Lognormal; Normal	Normal
19_2_3_124	MW-09	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	0.974	0.839	0.095	0.907	0.889	0.026	0.203	0.031	0.157	>= 0.10	0.534	>= 0.10	0.748	Gamma; Normal	Normal
19_2_3_126	MW-09	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	0.985	0.984	0.087	0.958	0.961	0.560	0.142	0.363	0.125	>= 0.10	0.219	>= 0.10	0.305	Gamma; Lognormal; Normal	Normal
19_2_4_101	MW-09	Appendix IV	Antimony	mg/L	20	12	60%	0.880	0.189	0.194	0.502	0.976	0.939	0.157	0.812	0.186	>= 0.10	0.236	>= 0.10	0.533	Gamma; Lognormal; Normal	Nonparametric
19_2_4_102	MW-09	Appendix IV	Arsenic	mg/L	20	0	0%	0.946	0.309	0.209	0.022	0.895	0.033	0.247	0.002	0.240	< 0.01	0.835	0.01 <= p < 0.05	0.343	Normal	Normal
19_2_4_103	MW-09	Appendix IV	Barium	mg/L	20	0	0%	0.452	0.000	0.350	0.000	0.932	0.169	0.139	0.399	0.206	0.01 <= p < 0.05	1.339	< 0.01	0.871	Lognormal	Lognormal
19_2_4_104	MW-09	Appendix IV	Beryllium	mg/L	20	15	75%	0.759	0.036	0.284	0.204	0.820	0.117	0.275	0.244	0.300	>= 0.10	0.588	>= 0.10	0.406	Gamma; Lognormal; Normal	Nonparametric
19_2_4_106	MW-09	Appendix IV	Cadmium	mg/L	20	19	95%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
19_2_4_109	MW-09	Appendix IV	Chromium, Total	mg/L	20	0	0%	0.977	0.882	0.113	0.723	0.944	0.282	0.126	0.555	0.129	>= 0.10	0.261	>= 0.10	0.268	Gamma; Lognormal; Normal	Normal
19_2_4_110	MW-09	Appendix IV	Cobalt	mg/L	20	0	0%	0.368	0.000	0.407	0.000	0.795	0.001	0.193	0.049	0.297	< 0.01	2.392	< 0.01	0.734	Nonparametric	Nonparametric
19_2_4_113	MW-09	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	0.934	0.185	0.144	0.338	0.897	0.036	0.176	0.107	0.161	>= 0.10	0.572	>= 0.10	0.158	Gamma; Lognormal; Normal	Normal
19_2_4_115	MW-09	Appendix IV	Lead	mg/L	20	17	85%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.574		Nonparametric
19_2_4_116	MW-09	Appendix IV	Lithium	mg/L	20	0	0%	0.737	0.000	0.254	0.002	0.822	0.002	0.207	0.025	0.220	0.01 <= p < 0.05	1.375	< 0.01	0.175	Nonparametric	Nonparametric
19_2_4_117	MW-09	Appendix IV	Mercury	ng/L	20	14	70%	0.670	0.003	0.406	0.003	0.776	0.035	0.253	0.264	0.348	0.05 <= p < 0.10	0.861	0.01 <= p < 0.05	4.282	Gamma; Lognormal	Nonparametric
19_2_4_118	MW-09	Appendix IV	Molybdenum	mg/L	20	0	0%	0.971	0.781	0.113	0.720	0.933	0.175	0.156	0.226	0.132	>= 0.10	0.346	>= 0.10	0.319	Gamma; Lognormal; Normal	Normal
19_2_4_121	MW-09	Appendix IV	Radium 226 and 228	pCi/L	20	18	90%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.164		Nonparametric
19_2_4_122	MW-09	Appendix IV	Selenium	mg/L	20	2	10%	0.444	0.000	0.346	0.000	0.806	0.002	0.227	0.015	0.297	< 0.01	2.241	< 0.01	0.725	Nonparametric	Nonparametric
19_2_4_125	MW-09	Appendix IV	Thallium	mg/L	20	20	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
19_2_5_111	MW-09	Part 115	Copper	mg/L	20	11	55%	0.774	0.010	0.276	0.046	0.870	0.124	0.241	0.137	0.277	0.05 <= p < 0.10	0.653	0.05 <= p < 0.10	1.017	Gamma; Lognormal	Nonparametric
19_2_5_114	MW-09	Part 115	Iron	mg/L	20	0	0%	0.918	0.091	0.137	0.421	0.779	0.000	0.175	0.111	0.144	>= 0.10	0.822	0.01 <= p < 0.05	0.344	Gamma; Lognormal; Normal	Normal
19_2_5_119	MW-09	Part 115	Nickel	mg/L	20	0	0%	0.495	0.000	0.326	0.000	0.934	0.182	0.160	0.200	0.212	0.01 <= p < 0.05	1.304	< 0.01	1.334	Lognormal	Nonparametric
19_2_5_123	MW-09	Part 115	Silver	mg/L	20	20	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
19_2_5_128	MW-09	Part 115	Vanadium	mg/L	20	15	75%	0.863	0.238	0.249	0.393	0.888	0.350	0.238	0.465	0.268	>= 0.10	0.401	>= 0.10	0.422	Gamma; Lognormal; Normal	Nonparametric
19_2_5_129	MW-09	Part 115	Zinc	mg/L	20	8	40%	0.540	0.000	0.352	0.000	0.941	0.511	0.136	0.777	0.208	>= 0.10	0.599	>= 0.10	1.279	Gamma; Lognormal	Gamma
20_3_3_105	MW-10	Appendix III	Boron	mg/L	20	0	0%	0.920	0.099	0.178	0.096	0.859	0.008	0.242	0.003	0.229	< 0.01	0.921	0.01 <= p < 0.05	0.557	Normal	Normal
20_3_3_107	MW-10	Appendix III	Calcium	mg/L	20	0	0%	0.849	0.005	0.213	0.018	0.947	0.320	0.148	0.301	0.171	>= 0.10	0.619	>= 0.10	0.330	Gamma; Lognormal	Gamma
20_3_3_108	MW-10	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	0.928	0.142	0.111	0.745	0.964	0.616	0.113	0.723	0.120	>= 0.10	0.248	>= 0.10	0.584	Gamma; Lognormal; Normal	Normal
20_3_3_112	MW-10	Appendix III	Fluoride	mg/L	20	0	0%	0.953	0.411	0.162	0.185	0.895	0.033	0.218	0.014	0.200	0.01 <= p < 0.05	0.661	0.05 <= p < 0.10	0.300	Gamma; Normal	Normal
20_3_3_120	MW-10	Appendix III	pH (field)	su	20	0	0%	0.881	0.019	0.227	0.008	0.897	0.037	0.217	0.015	0.218	0.01 <= p < 0.05	0.872	0.01 <= p < 0.05	0.045	Nonparametric	Nonparametric
20_3_3_124	MW-10	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	0.871	0.012	0.185	0.070	0.927	0.134	0.135	0.441	0.091	>= 0.10	0.235	>= 0.10	0.877	Gamma; Lognormal; Normal	Normal
20_3_3_126	MW-10	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	0.848	0.005	0.295	0.000	0.898	0.038	0.267	0.001	0.279	< 0.01	1.034	< 0.01	0.207	Nonparametric	Nonparametric
20_3_4_101	MW-10	Appendix IV	Antimony	mg/L	20	15	75%	0.624	0.001	0.426	0.003	0.674	0.005	0.390	0.012	0.419	< 0.01	0.994	< 0.01	0.481	Nonparametric	Nonparametric
20_3_4_102	MW-10	Appendix IV	Arsenic	mg/L	20	0	0%	0.919	0.096	0.162	0.181	0.977	0.885	0.091	0.936	0.125	>= 0.10	0.200	>= 0.10	0.648	Gamma; Lognormal; Normal	Normal
20_3_4_103	MW-10	Appendix IV	Barium	mg/L	20	0	0%	0.917	0.088	0.192	0.050	0.972	0.802	0.113	0.723	0.143	>= 0.10	0.323	>= 0.10	0.460	Gamma; Lognormal; Normal	Normal

(Table continues on next page)

Note: p-values above 0.05 suggest a fit to the tested distribution; a distribution passes its GOF test when at least one of the two p-values is above 0.05.

Table 3: Goodness-of-Fit Tests, Non-Detects Excluded *(continued)*

								Normal				Lognormal				Gamma						
								S-W		Lilliefors		S-W		Lilliefors		K-S		A-D				
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Log-SD (NDs excl.)	ProUCL Distributions Fit	Recommended Distribution
20_3_4_104	MW-10	Appendix IV	Beryllium	mg/L	20	10	50%	0.816	0.023	0.240	0.106	0.921	0.362	0.172	0.552	0.191	>= 0.10	0.484	>= 0.10	0.467	Gamma; Lognormal; Normal	Nonparametric
20_3_4_106	MW-10	Appendix IV	Cadmium	mg/L	20	20	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
20_3_4_109	MW-10	Appendix IV	Chromium, Total	mg/L	20	0	0%	0.953	0.419	0.128	0.523	0.943	0.275	0.216	0.015	0.189	0.05 <= p < 0.10	0.414	>= 0.10	0.506	Gamma; Lognormal; Normal	Normal
20_3_4_110	MW-10	Appendix IV	Cobalt	mg/L	20	1	5%	0.720	0.000	0.240	0.005	0.947	0.350	0.137	0.451	0.175	>= 0.10	0.658	0.05 <= p < 0.10	0.597	Gamma; Lognormal	Gamma
20_3_4_113	MW-10	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	0.953	0.411	0.162	0.185	0.895	0.033	0.218	0.014	0.200	0.01 <= p < 0.05	0.661	0.05 <= p < 0.10	0.300	Gamma; Normal	Normal
20_3_4_115	MW-10	Appendix IV	Lead	mg/L	20	17	85%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.426		Nonparametric
20_3_4_116	MW-10	Appendix IV	Lithium	mg/L	20	0	0%	0.885	0.022	0.236	0.005	0.910	0.065	0.198	0.039	0.206	0.01 <= p < 0.05	0.814	0.01 <= p < 0.05	0.238	Lognormal	Lognormal
20_3_4_117	MW-10	Appendix IV	Mercury	ng/L	20	17	85%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		5.120		Nonparametric
20_3_4_118	MW-10	Appendix IV	Molybdenum	mg/L	20	0	0%	0.918	0.090	0.143	0.352	0.970	0.748	0.107	0.794	0.092	>= 0.10	0.209	>= 0.10	0.639	Gamma; Lognormal; Normal	Normal
20_3_4_121	MW-10	Appendix IV	Radium 226 and 228	pCi/L	20	15	75%	0.924	0.555	0.210	0.661	0.975	0.906	0.173	0.893	0.197	>= 0.10	0.239	>= 0.10	0.306	Gamma; Lognormal; Normal	Nonparametric
20_3_4_122	MW-10	Appendix IV	Selenium	mg/L	20	1	5%	0.707	0.000	0.240	0.005	0.886	0.028	0.163	0.203	0.185	0.05 <= p < 0.10	0.969	0.01 <= p < 0.05	0.293	Gamma; Lognormal	Gamma
20_3_4_125	MW-10	Appendix IV	Thallium	mg/L	20	20	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
20_3_5_111	MW-10	Part 115	Copper	mg/L	20	16	80%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.623		Nonparametric
20_3_5_114	MW-10	Part 115	Iron	mg/L	20	0	0%	0.937	0.206	0.140	0.386	0.935	0.195	0.116	0.685	0.116	>= 0.10	0.387	>= 0.10	0.389	Gamma; Lognormal; Normal	Normal
20_3_5_119	MW-10	Part 115	Nickel	mg/L	20	7	35%	0.811	0.009	0.278	0.007	0.869	0.050	0.262	0.015	0.275	0.01 <= p < 0.05	0.868	0.01 <= p < 0.05	0.260	Lognormal	Lognormal
20_3_5_123	MW-10	Part 115	Silver	mg/L	20	20	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
20_3_5_128	MW-10	Part 115	Vanadium	mg/L	20	12	60%	0.926	0.478	0.165	0.752	0.873	0.161	0.194	0.507	0.198	>= 0.10	0.442	>= 0.10	0.450	Gamma; Lognormal; Normal	Nonparametric
20_3_5_129	MW-10	Part 115	Zinc	mg/L	20	7	35%	0.789	0.005	0.224	0.075	0.873	0.057	0.199	0.170	0.230	0.05 <= p < 0.10	0.676	0.05 <= p < 0.10	1.357	Gamma; Lognormal; Normal	Gamma
21_2_3_105	MW-11	Appendix III	Boron	mg/L	20	0	0%	0.916	0.084	0.163	0.177	0.952	0.391	0.125	0.568	0.145	>= 0.10	0.333	>= 0.10	0.642	Gamma; Lognormal; Normal	Normal
21_2_3_107	MW-11	Appendix III	Calcium	mg/L	20	0	0%	0.956	0.468	0.114	0.714	0.916	0.082	0.154	0.243	0.146	>= 0.10	0.511	>= 0.10	0.332	Gamma; Lognormal; Normal	Normal
21_2_3_108	MW-11	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	0.957	0.486	0.169	0.140	0.925	0.126	0.209	0.023	0.199	0.01 <= p < 0.05	0.483	>= 0.10	0.266	Gamma; Lognormal; Normal	Normal
21_2_3_112	MW-11	Appendix III	Fluoride	mg/L	20	0	0%	0.913	0.072	0.141	0.378	0.952	0.399	0.131	0.486	0.092	>= 0.10	0.259	>= 0.10	0.621	Gamma; Lognormal; Normal	Normal
21_2_3_120	MW-11	Appendix III	pH (field)	su	20	0	0%	0.969	0.727	0.108	0.786	0.967	0.693	0.110	0.756	0.111	>= 0.10	0.252	>= 0.10	0.015	Gamma; Lognormal; Normal	Normal
21_2_3_124	MW-11	Appendix III	Sulfate (as SO4)	mg/L	20	7	35%	0.690	0.000	0.314	0.001	0.963	0.805	0.183	0.276	0.253	0.01 <= p < 0.05	0.625	>= 0.10	1.382	Gamma; Lognormal	Gamma
21_2_3_126	MW-11	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	0.867	0.010	0.181	0.084	0.946	0.306	0.149	0.287	0.152	>= 0.10	0.416	>= 0.10	0.221	Gamma; Lognormal; Normal	Normal
21_2_4_101	MW-11	Appendix IV	Antimony	mg/L	20	15	75%	0.849	0.192	0.347	0.048	0.887	0.342	0.327	0.086	0.288	>= 0.10	0.453	>= 0.10	0.760	Gamma; Lognormal; Normal	Nonparametric
21_2_4_102	MW-11	Appendix IV	Arsenic	mg/L	20	0	0%	0.823	0.002	0.202	0.031	0.942	0.264	0.128	0.531	0.151	>= 0.10	0.770	0.01 <= p < 0.05	0.536	Gamma; Lognormal	Gamma
21_2_4_103	MW-11	Appendix IV	Barium	mg/L	20	0	0%	0.883	0.020	0.166	0.161	0.964	0.630	0.132	0.476	0.150	>= 0.10	0.511	>= 0.10	0.339	Gamma; Lognormal; Normal	Normal
21_2_4_104	MW-11	Appendix IV	Beryllium	mg/L	20	14	70%	0.620	0.001	0.434	0.001	0.797	0.055	0.347	0.023	0.394	< 0.01	0.926	0.01 <= p < 0.05	0.710	Lognormal	Nonparametric
21_2_4_106	MW-11	Appendix IV	Cadmium	mg/L	20	17	85%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.759		Nonparametric
21_2_4_109	MW-11	Appendix IV	Chromium, Total	mg/L	20	0	0%	0.474	0.000	0.383	0.000	0.805	0.001	0.238	0.004	0.305	< 0.01	2.404	< 0.01	0.662	Nonparametric	Nonparametric
21_2_4_110	MW-11	Appendix IV	Cobalt	mg/L	20	0	0%	0.636	0.000	0.330	0.000	0.878	0.016	0.170	0.134	0.231	< 0.01	1.447	< 0.01	0.678	Lognormal	Lognormal
21_2_4_113	MW-11	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	0.913	0.072	0.141	0.378	0.952	0.399	0.131	0.486	0.092	>= 0.10	0.259	>= 0.10	0.621	Gamma; Lognormal; Normal	Normal
21_2_4_115	MW-11	Appendix IV	Lead	mg/L	20	3	15%	0.480	0.000	0.410	0.000	0.917	0.132	0.169	0.218	0.264	0.01 <= p < 0.05	1.486	< 0.01	1.756	Lognormal	Nonparametric
21_2_4_116	MW-11	Appendix IV	Lithium	mg/L	20	0	0%	0.906	0.054	0.179	0.092	0.937	0.215	0.154	0.243	0.099	>= 0.10	0.202	>= 0.10	0.934	Gamma; Lognormal; Normal	Normal
21_2_4_117	MW-11	Appendix IV	Mercury	ng/L	20	13	65%	0.460	0.000	0.496	0.000	0.737	0.009	0.320	0.029	0.399	< 0.01	1.426	< 0.01	2.517	Nonparametric	Nonparametric
21_2_4_118	MW-11	Appendix IV	Molybdenum	mg/L	20	2	10%	0.893	0.043	0.177	0.143	0.966	0.722	0.104	0.876	0.130	>= 0.10	0.284	>= 0.10	0.745	Gamma; Lognormal; Normal	Normal
21_2_4_121	MW-11	Appendix IV	Radium 226 and 228	pCi/L	19	7	37%	0.921	0.291	0.201	0.198	0.951	0.652	0.130	0.834	0.159	>= 0.10	0.264	>= 0.10	0.446	Gamma; Lognormal; Normal	Normal
21_2_4_122	MW-11	Appendix IV	Selenium	mg/L	20	3	15%	0.735	0.000	0.221	0.026	0.913	0.110	0.157	0.320	0.186	>= 0.10	0.681	0.05 <= p < 0.10	0.420	Gamma; Lognormal	Gamma

(Table continues on next page)

Note: p-values above 0.05 suggest a fit to the tested distribution; a distribution passes its GOF test when at least one of the two p-values is above 0.05.

Table 3: Goodness-of-Fit Tests, Non-Detects Excluded *(continued)*

								Normal				Lognormal				Gamma						
								S-W		Lilliefors		S-W		Lilliefors		K-S		A-D				
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Log-SD (NDs excl.)	ProUCL Distributions Fit	Recommended Distribution
21_2_4_125	MW-11	Appendix IV	Thallium	mg/L	20	19	95%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
21_2_5_111	MW-11	Part 115	Copper	mg/L	20	4	20%	0.484	0.000	0.331	0.000	0.862	0.020	0.224	0.032	0.280	< 0.01	1.675	< 0.01	1.311	Nonparametric	Nonparametric
21_2_5_114	MW-11	Part 115	Iron	mg/L	20	0	0%	0.846	0.005	0.178	0.095	0.961	0.568	0.106	0.805	0.122	>= 0.10	0.387	>= 0.10	0.438	Gamma; Lognormal; Normal	Normal
21_2_5_119	MW-11	Part 115	Nickel	mg/L	20	0	0%	0.515	0.000	0.364	0.000	0.830	0.003	0.227	0.008	0.273	< 0.01	2.285	< 0.01	0.767	Nonparametric	Nonparametric
21_2_5_123	MW-11	Part 115	Silver	mg/L	20	17	85%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.098		Nonparametric
21_2_5_128	MW-11	Part 115	Vanadium	mg/L	20	13	65%	0.596	0.000	0.351	0.009	0.733	0.008	0.310	0.041	0.341	0.01 <= p < 0.05	1.095	< 0.01	0.629	Nonparametric	Nonparametric
21_2_5_129	MW-11	Part 115	Zinc	mg/L	20	4	20%	0.893	0.062	0.178	0.190	0.866	0.024	0.281	0.001	0.235	0.01 <= p < 0.05	0.740	0.05 <= p < 0.10	1.377	Gamma; Normal	Gamma
22_2_3_105	MW-12	Appendix III	Boron	mg/L	20	0	0%	0.922	0.109	0.191	0.055	0.972	0.798	0.139	0.393	0.162	>= 0.10	0.395	>= 0.10	0.357	Gamma; Lognormal; Normal	Normal
22_2_3_107	MW-12	Appendix III	Calcium	mg/L	20	0	0%	0.941	0.251	0.091	0.933	0.944	0.281	0.121	0.618	0.116	>= 0.10	0.365	>= 0.10	0.311	Gamma; Lognormal; Normal	Normal
22_2_3_108	MW-12	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	0.931	0.159	0.200	0.035	0.942	0.263	0.158	0.216	0.164	>= 0.10	0.512	>= 0.10	0.287	Gamma; Lognormal; Normal	Normal
22_2_3_112	MW-12	Appendix III	Fluoride	mg/L	20	0	0%	0.859	0.008	0.275	0.000	0.917	0.086	0.222	0.011	0.241	< 0.01	0.945	0.01 <= p < 0.05	0.277	Lognormal	Lognormal
22_2_3_120	MW-12	Appendix III	pH (field)	su	20	0	0%	0.986	0.985	0.099	0.871	0.987	0.992	0.095	0.910	0.101	>= 0.10	0.179	>= 0.10	0.042	Gamma; Lognormal; Normal	Normal
22_2_3_124	MW-12	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	0.956	0.472	0.139	0.399	0.864	0.009	0.191	0.054	0.146	>= 0.10	0.460	>= 0.10	0.697	Gamma; Lognormal; Normal	Normal
22_2_3_126	MW-12	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	0.963	0.615	0.136	0.426	0.923	0.112	0.146	0.318	0.151	>= 0.10	0.417	>= 0.10	0.369	Gamma; Lognormal; Normal	Normal
22_2_4_101	MW-12	Appendix IV	Antimony	mg/L	20	0	0%	0.938	0.216	0.113	0.727	0.952	0.400	0.113	0.729	0.086	>= 0.10	0.195	>= 0.10	0.643	Gamma; Lognormal; Normal	Normal
22_2_4_102	MW-12	Appendix IV	Arsenic	mg/L	20	0	0%	0.808	0.001	0.194	0.047	0.908	0.058	0.169	0.141	0.187	0.05 <= p < 0.10	0.850	0.01 <= p < 0.05	0.471	Gamma; Lognormal	Gamma
22_2_4_103	MW-12	Appendix IV	Barium	mg/L	20	0	0%	0.849	0.005	0.175	0.113	0.949	0.351	0.126	0.550	0.130	>= 0.10	0.524	>= 0.10	0.636	Gamma; Lognormal; Normal	Normal
22_2_4_104	MW-12	Appendix IV	Beryllium	mg/L	20	19	95%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
22_2_4_106	MW-12	Appendix IV	Cadmium	mg/L	20	0	0%	0.634	0.000	0.245	0.003	0.948	0.336	0.096	0.899	0.141	>= 0.10	0.720	0.05 <= p < 0.10	0.773	Gamma; Lognormal	Gamma
22_2_4_109	MW-12	Appendix IV	Chromium, Total	mg/L	20	6	30%	0.882	0.062	0.197	0.147	0.936	0.372	0.129	0.762	0.148	>= 0.10	0.380	>= 0.10	0.516	Gamma; Lognormal; Normal	Normal
22_2_4_110	MW-12	Appendix IV	Cobalt	mg/L	20	5	25%	0.704	0.000	0.263	0.006	0.954	0.583	0.110	0.897	0.152	>= 0.10	0.484	>= 0.10	0.951	Gamma; Lognormal	Gamma
22_2_4_113	MW-12	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	0.859	0.008	0.275	0.000	0.917	0.086	0.222	0.011	0.241	< 0.01	0.945	0.01 <= p < 0.05	0.277	Lognormal	Lognormal
22_2_4_115	MW-12	Appendix IV	Lead	mg/L	20	6	30%	0.866	0.037	0.189	0.192	0.948	0.527	0.146	0.578	0.164	>= 0.10	0.375	>= 0.10	0.528	Gamma; Lognormal; Normal	Normal
22_2_4_116	MW-12	Appendix IV	Lithium	mg/L	20	1	5%	0.945	0.318	0.137	0.454	0.923	0.127	0.154	0.273	0.136	>= 0.10	0.485	>= 0.10	0.394	Gamma; Lognormal; Normal	Normal
22_2_4_117	MW-12	Appendix IV	Mercury	ng/L	20	12	60%	0.616	0.000	0.439	0.000	0.735	0.006	0.309	0.024	0.359	0.01 <= p < 0.05	1.294	< 0.01	2.333	Nonparametric	Nonparametric
22_2_4_118	MW-12	Appendix IV	Molybdenum	mg/L	20	0	0%	0.746	0.000	0.227	0.008	0.924	0.116	0.150	0.280	0.169	>= 0.10	0.611	>= 0.10	0.315	Gamma; Lognormal	Gamma
22_2_4_121	MW-12	Appendix IV	Radium 226 and 228	pCi/L	20	12	60%	0.923	0.456	0.168	0.729	0.963	0.841	0.143	0.903	0.162	>= 0.10	0.242	>= 0.10	0.264	Gamma; Lognormal; Normal	Nonparametric
22_2_4_122	MW-12	Appendix IV	Selenium	mg/L	20	0	0%	0.786	0.001	0.206	0.026	0.925	0.124	0.158	0.214	0.179	>= 0.10	0.574	>= 0.10	1.178	Gamma; Lognormal	Gamma
22_2_4_125	MW-12	Appendix IV	Thallium	mg/L	20	20	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
22_2_5_111	MW-12	Part 115	Copper	mg/L	20	0	0%	0.837	0.003	0.177	0.102	0.955	0.444	0.126	0.558	0.139	>= 0.10	0.601	>= 0.10	0.512	Gamma; Lognormal; Normal	Normal
22_2_5_114	MW-12	Part 115	Iron	mg/L	20	6	30%	0.599	0.000	0.302	0.001	0.924	0.250	0.215	0.077	0.273	0.01 <= p < 0.05	0.963	0.01 <= p < 0.05	1.084	Lognormal	Nonparametric
22_2_5_119	MW-12	Part 115	Nickel	mg/L	20	0	0%	0.817	0.002	0.235	0.005	0.965	0.655	0.152	0.262	0.171	>= 0.10	0.488	>= 0.10	0.476	Gamma; Lognormal	Gamma
22_2_5_123	MW-12	Part 115	Silver	mg/L	20	20	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
22_2_5_128	MW-12	Part 115	Vanadium	mg/L	20	6	30%	0.920	0.220	0.183	0.231	0.948	0.531	0.168	0.347	0.141	>= 0.10	0.341	>= 0.10	0.421	Gamma; Lognormal; Normal	Normal
22_2_5_129	MW-12	Part 115	Zinc	mg/L	20	0	0%	0.884	0.021	0.220	0.012	0.947	0.325	0.130	0.503	0.153	>= 0.10	0.550	>= 0.10	0.580	Gamma; Lognormal	Gamma
26_1_3_105	MW-16	Appendix III	Boron	mg/L	10	0	0%	0.946	0.625	0.193	0.360	0.942	0.581	0.165	0.615	0.177	>= 0.10	0.310	>= 0.10	0.295	Gamma; Lognormal; Normal	Normal
26_1_3_107	MW-16	Appendix III	Calcium	mg/L	10	0	0%	0.952	0.689	0.200	0.309	0.940	0.556	0.225	0.161	0.218	>= 0.10	0.363	>= 0.10	0.143	Gamma; Lognormal; Normal	Normal
26_1_3_108	MW-16	Appendix III	Chloride (as Cl)	mg/L	10	0	0%	0.936	0.507	0.168	0.582	0.928	0.424	0.143	0.817	0.159	>= 0.10	0.332	>= 0.10	0.160	Gamma; Lognormal; Normal	Normal
26_1_3_112	MW-16	Appendix III	Fluoride	mg/L	10	1	10%	0.894	0.222	0.228	0.194	0.888	0.188	0.227	0.200	0.241	>= 0.10	0.538	>= 0.10	0.156	Gamma; Lognormal; Normal	Normal

(Table continues on next page)

Note: p-values above 0.05 suggest a fit to the tested distribution; a distribution passes its GOF test when at least one of the two p-values is above 0.05.

Table 3: Goodness-of-Fit Tests, Non-Detects Excluded *(continued)*

								Normal				Lognormal				Gamma						
								S-W		Lilliefors		S-W		Lilliefors		K-S		A-D				
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Log-SD (NDs excl.)	ProUCL Distributions Fit	Recommended Distribution
26_1_3_120	MW-16	Appendix III	pH (field)	su	10	0	0%	0.881	0.135	0.242	0.099	0.882	0.137	0.240	0.105	0.255	0.05 <= p < 0.10	0.566	>= 0.10	0.040	Gamma; Lognormal; Normal	Normal
26_1_3_124	MW-16	Appendix III	Sulfate (as SO4)	mg/L	10	2	20%	0.922	0.447	0.196	0.484	0.867	0.139	0.239	0.196	0.191	>= 0.10	0.376	>= 0.10	1.785	Gamma; Lognormal; Normal	Gamma
26_1_3_126	MW-16	Appendix III	Total Dissolved Solids	mg/L	10	0	0%	0.965	0.838	0.152	0.740	0.955	0.733	0.170	0.571	0.167	>= 0.10	0.278	>= 0.10	0.111	Gamma; Lognormal; Normal	Normal
26_1_4_101	MW-16	Appendix IV	Antimony	mg/L	10	9	90%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
26_1_4_102	MW-16	Appendix IV	Arsenic	mg/L	10	0	0%	0.870	0.101	0.265	0.045	0.934	0.485	0.183	0.452	0.185	>= 0.10	0.425	>= 0.10	0.935	Gamma; Lognormal; Normal	Normal
26_1_4_103	MW-16	Appendix IV	Barium	mg/L	10	0	0%	0.946	0.626	0.135	0.873	0.948	0.641	0.159	0.669	0.155	>= 0.10	0.275	>= 0.10	0.246	Gamma; Lognormal; Normal	Normal
26_1_4_104	MW-16	Appendix IV	Beryllium	mg/L	10	9	90%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
26_1_4_106	MW-16	Appendix IV	Cadmium	mg/L	10	10	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
26_1_4_109	MW-16	Appendix IV	Chromium, Total	mg/L	10	0	0%	0.863	0.082	0.243	0.098	0.907	0.262	0.185	0.429	0.209	>= 0.10	0.530	>= 0.10	0.518	Gamma; Lognormal; Normal	Normal
26_1_4_110	MW-16	Appendix IV	Cobalt	mg/L	10	0	0%	0.706	0.001	0.338	0.002	0.810	0.019	0.306	0.009	0.328	< 0.01	1.010	< 0.01	0.441	Nonparametric	Nonparametric
26_1_4_113	MW-16	Appendix IV	Fluoride (App IV)	mg/L	10	1	10%	0.894	0.222	0.228	0.194	0.888	0.188	0.227	0.200	0.241	>= 0.10	0.538	>= 0.10	0.156	Gamma; Lognormal; Normal	Normal
26_1_4_115	MW-16	Appendix IV	Lead	mg/L	10	6	60%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.349		Nonparametric
26_1_4_116	MW-16	Appendix IV	Lithium	mg/L	10	0	0%	0.922	0.377	0.217	0.199	0.897	0.205	0.225	0.163	0.233	>= 0.10	0.476	>= 0.10	0.197	Gamma; Lognormal; Normal	Normal
26_1_4_117	MW-16	Appendix IV	Mercury	ng/L	10	8	80%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.279		Nonparametric
26_1_4_118	MW-16	Appendix IV	Molybdenum	mg/L	10	9	90%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
26_1_4_121	MW-16	Appendix IV	Radium 226 and 228	pCi/L	10	4	40%	0.925	0.539	0.207	0.579	0.967	0.871	0.170	0.850	0.168	>= 0.10	0.234	>= 0.10	0.223	Gamma; Lognormal; Normal	Normal
26_1_4_122	MW-16	Appendix IV	Selenium	mg/L	10	1	10%	0.869	0.119	0.241	0.137	0.920	0.393	0.199	0.386	0.217	>= 0.10	0.451	>= 0.10	0.275	Gamma; Lognormal; Normal	Normal
26_1_4_125	MW-16	Appendix IV	Thallium	mg/L	10	10	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
26_1_5_111	MW-16	Part 115	Copper	mg/L	10	5	50%	0.957	0.787	0.198	0.746	0.952	0.753	0.221	0.584	0.227	>= 0.10	0.269	>= 0.10	0.170	Gamma; Lognormal; Normal	Nonparametric
26_1_5_114	MW-16	Part 115	Iron	mg/L	10	0	0%	0.932	0.465	0.177	0.505	0.788	0.010	0.236	0.117	0.187	>= 0.10	0.556	>= 0.10	0.742	Gamma; Lognormal; Normal	Normal
26_1_5_119	MW-16	Part 115	Nickel	mg/L	10	1	10%	0.843	0.063	0.242	0.135	0.934	0.524	0.167	0.669	0.182	>= 0.10	0.385	>= 0.10	1.012	Gamma; Lognormal; Normal	Gamma
26_1_5_123	MW-16	Part 115	Silver	mg/L	10	10	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
26_1_5_128	MW-16	Part 115	Vanadium	mg/L	10	3	30%	0.960	0.815	0.164	0.825	0.911	0.404	0.209	0.470	0.185	>= 0.10	0.299	>= 0.10	0.360	Gamma; Lognormal; Normal	Normal
26_1_5_129	MW-16	Part 115	Zinc	mg/L	10	2	20%	0.928	0.502	0.144	0.897	0.838	0.071	0.249	0.154	0.213	>= 0.10	0.440	>= 0.10	1.334	Gamma; Lognormal; Normal	Gamma
27_1_3_105	MW-17	Appendix III	Boron	mg/L	10	0	0%	0.940	0.557	0.172	0.548	0.902	0.230	0.219	0.191	0.211	>= 0.10	0.417	>= 0.10	0.368	Gamma; Lognormal; Normal	Normal
27_1_3_107	MW-17	Appendix III	Calcium	mg/L	10	0	0%	0.955	0.723	0.162	0.643	0.942	0.581	0.179	0.480	0.159	>= 0.10	0.324	>= 0.10	0.145	Gamma; Lognormal; Normal	Normal
27_1_3_108	MW-17	Appendix III	Chloride (as Cl)	mg/L	10	0	0%	0.947	0.629	0.222	0.174	0.833	0.036	0.282	0.023	0.270	0.01 <= p < 0.05	0.573	>= 0.10	0.445	Gamma; Normal	Normal
27_1_3_112	MW-17	Appendix III	Fluoride	mg/L	10	0	0%	0.965	0.846	0.130	0.905	0.945	0.608	0.165	0.619	0.145	>= 0.10	0.228	>= 0.10	0.207	Gamma; Lognormal; Normal	Normal
27_1_3_120	MW-17	Appendix III	pH (field)	su	10	0	0%	0.933	0.481	0.212	0.228	0.936	0.507	0.209	0.250	0.215	>= 0.10	0.362	>= 0.10	0.025	Gamma; Lognormal; Normal	Normal
27_1_3_124	MW-17	Appendix III	Sulfate (as SO4)	mg/L	10	2	20%	0.821	0.047	0.308	0.024	0.927	0.488	0.184	0.593	0.197	>= 0.10	0.362	>= 0.10	1.542	Gamma; Lognormal	Gamma
27_1_3_126	MW-17	Appendix III	Total Dissolved Solids	mg/L	10	0	0%	0.705	0.001	0.272	0.034	0.670	0.000	0.305	0.009	0.294	0.01 <= p < 0.05	1.415	< 0.01	0.177	Nonparametric	Nonparametric
27_1_4_101	MW-17	Appendix IV	Antimony	mg/L	10	8	80%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		1.583		Nonparametric
27_1_4_102	MW-17	Appendix IV	Arsenic	mg/L	10	0	0%	0.952	0.688	0.132	0.888	0.944	0.599	0.143	0.812	0.143	>= 0.10	0.266	>= 0.10	0.271	Gamma; Lognormal; Normal	Normal
27_1_4_103	MW-17	Appendix IV	Barium	mg/L	10	0	0%	0.955	0.724	0.155	0.713	0.865	0.086	0.216	0.206	0.184	>= 0.10	0.391	>= 0.10	0.332	Gamma; Lognormal; Normal	Normal
27_1_4_104	MW-17	Appendix IV	Beryllium	mg/L	10	9	90%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
27_1_4_106	MW-17	Appendix IV	Cadmium	mg/L	10	9	90%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
27_1_4_109	MW-17	Appendix IV	Chromium, Total	mg/L	10	0	0%	0.643	0.000	0.297	0.013	0.813	0.021	0.198	0.324	0.235	>= 0.10	0.951	0.01 <= p < 0.05	0.446	Gamma; Lognormal	Gamma
27_1_4_110	MW-17	Appendix IV	Cobalt	mg/L	10	0	0%	0.750	0.004	0.286	0.020	0.865	0.088	0.285	0.021	0.298	0.01 <= p < 0.05	0.755	0.01 <= p < 0.05	0.362	Lognormal	Lognormal
27_1_4_113	MW-17	Appendix IV	Fluoride (App IV)	mg/L	10	0	0%	0.965	0.846	0.130	0.905	0.945	0.608	0.165	0.619	0.145	>= 0.10	0.228	>= 0.10	0.207	Gamma; Lognormal; Normal	Normal

(Table continues on next page)

Note: p-values above 0.05 suggest a fit to the tested distribution; a distribution passes its GOF test when at least one of the two p-values is above 0.05.

Table 3: Goodness-of-Fit Tests, Non-Detects Excluded *(continued)*

								Normal				Lognormal				Gamma						
								S-W		Lilliefors		S-W		Lilliefors		K-S		A-D				
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Log-SD (NDs excl.)	ProUCL Distributions Fit	Recommended Distribution
27_1_4_115	MW-17	Appendix IV	Lead	mg/L	10	1	10%	0.914	0.348	0.151	0.803	0.942	0.608	0.165	0.684	0.178	>= 0.10	0.265	>= 0.10	0.662	Gamma; Lognormal; Normal	Normal
27_1_4_116	MW-17	Appendix IV	Lithium	mg/L	10	0	0%	0.945	0.613	0.184	0.440	0.890	0.171	0.218	0.196	0.214	>= 0.10	0.471	>= 0.10	0.294	Gamma; Lognormal; Normal	Normal
27_1_4_117	MW-17	Appendix IV	Mercury	ng/L	10	7	70%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		1.115		Nonparametric
27_1_4_118	MW-17	Appendix IV	Molybdenum	mg/L	10	0	0%	0.494	0.000	0.425	0.000	0.765	0.005	0.348	0.001	0.412	< 0.01	1.596	< 0.01	1.041	Nonparametric	Nonparametric
27_1_4_121	MW-17	Appendix IV	Radium 226 and 228	pCi/L	10	3	30%	0.845	0.111	0.229	0.321	0.906	0.370	0.210	0.458	0.224	>= 0.10	0.414	>= 0.10	0.307	Gamma; Lognormal; Normal	Normal
27_1_4_122	MW-17	Appendix IV	Selenium	mg/L	10	0	0%	0.438	0.000	0.482	0.000	0.638	0.000	0.377	0.000	0.442	< 0.01	2.100	< 0.01	0.734	Nonparametric	Nonparametric
27_1_4_125	MW-17	Appendix IV	Thallium	mg/L	10	10	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
27_1_5_111	MW-17	Part 115	Copper	mg/L	10	1	10%	0.687	0.001	0.275	0.048	0.981	0.970	0.135	0.908	0.180	>= 0.10	0.348	>= 0.10	1.030	Gamma; Lognormal	Gamma
27_1_5_114	MW-17	Part 115	Iron	mg/L	10	0	0%	0.915	0.315	0.233	0.129	0.842	0.047	0.216	0.206	0.210	>= 0.10	0.640	0.05 <= p < 0.10	0.320	Gamma; Lognormal; Normal	Normal
27_1_5_119	MW-17	Part 115	Nickel	mg/L	10	0	0%	0.496	0.000	0.381	0.000	0.721	0.002	0.262	0.051	0.304	0.01 <= p < 0.05	1.580	< 0.01	0.715	Lognormal	Lognormal
27_1_5_123	MW-17	Part 115	Silver	mg/L	10	10	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
27_1_5_128	MW-17	Part 115	Vanadium	mg/L	10	0	0%	0.897	0.203	0.184	0.443	0.950	0.663	0.162	0.646	0.179	>= 0.10	0.287	>= 0.10	0.294	Gamma; Lognormal; Normal	Normal
27_1_5_129	MW-17	Part 115	Zinc	mg/L	10	0	0%	0.808	0.018	0.306	0.009	0.912	0.298	0.169	0.579	0.238	>= 0.10	0.518	>= 0.10	1.328	Gamma; Lognormal	Gamma
28_1_3_105	MW-18	Appendix III	Boron	mg/L	20	0	0%	0.955	0.451	0.135	0.441	0.955	0.450	0.137	0.417	0.136	>= 0.10	0.386	>= 0.10	0.354	Gamma; Lognormal; Normal	Normal
28_1_3_107	MW-18	Appendix III	Calcium	mg/L	20	0	0%	0.957	0.485	0.171	0.129	0.948	0.333	0.208	0.023	0.199	0.01 <= p < 0.05	0.510	>= 0.10	0.227	Gamma; Lognormal; Normal	Normal
28_1_3_108	MW-18	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	0.973	0.814	0.108	0.787	0.964	0.617	0.136	0.433	0.119	>= 0.10	0.309	>= 0.10	0.251	Gamma; Lognormal; Normal	Normal
28_1_3_112	MW-18	Appendix III	Fluoride	mg/L	20	0	0%	0.928	0.142	0.173	0.123	0.941	0.247	0.157	0.221	0.168	>= 0.10	0.637	0.05 <= p < 0.10	0.173	Gamma; Lognormal; Normal	Normal
28_1_3_120	MW-18	Appendix III	pH (field)	su	20	0	0%	0.945	0.300	0.177	0.105	0.943	0.276	0.179	0.092	0.176	>= 0.10	0.420	>= 0.10	0.013	Gamma; Lognormal; Normal	Normal
28_1_3_124	MW-18	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	0.940	0.242	0.207	0.025	0.930	0.151	0.209	0.022	0.190	0.05 <= p < 0.10	0.544	>= 0.10	0.356	Gamma; Lognormal; Normal	Normal
28_1_3_126	MW-18	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	0.975	0.861	0.140	0.389	0.954	0.424	0.133	0.465	0.131	>= 0.10	0.334	>= 0.10	0.226	Gamma; Lognormal; Normal	Normal
28_1_4_101	MW-18	Appendix IV	Antimony	mg/L	20	3	15%	0.642	0.000	0.289	0.001	0.846	0.009	0.190	0.107	0.219	0.01 <= p < 0.05	1.430	< 0.01	0.738	Lognormal	Lognormal
28_1_4_102	MW-18	Appendix IV	Arsenic	mg/L	20	0	0%	0.984	0.978	0.096	0.900	0.932	0.172	0.156	0.225	0.139	>= 0.10	0.318	>= 0.10	0.353	Gamma; Lognormal; Normal	Normal
28_1_4_103	MW-18	Appendix IV	Barium	mg/L	20	0	0%	0.628	0.000	0.270	0.001	0.892	0.030	0.143	0.355	0.184	0.05 <= p < 0.10	0.972	0.01 <= p < 0.05	0.463	Gamma; Lognormal	Gamma
28_1_4_104	MW-18	Appendix IV	Beryllium	mg/L	20	16	80%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.062		Nonparametric
28_1_4_106	MW-18	Appendix IV	Cadmium	mg/L	20	7	35%	0.831	0.016	0.258	0.018	0.923	0.279	0.140	0.696	0.178	>= 0.10	0.514	>= 0.10	0.893	Gamma; Lognormal	Gamma
28_1_4_109	MW-18	Appendix IV	Chromium, Total	mg/L	20	16	80%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.669		Nonparametric
28_1_4_110	MW-18	Appendix IV	Cobalt	mg/L	20	0	0%	0.824	0.002	0.256	0.001	0.954	0.426	0.165	0.166	0.199	0.01 <= p < 0.05	0.727	0.05 <= p < 0.10	0.503	Gamma; Lognormal	Gamma
28_1_4_113	MW-18	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	0.928	0.142	0.173	0.123	0.941	0.247	0.157	0.221	0.168	>= 0.10	0.637	0.05 <= p < 0.10	0.173	Gamma; Lognormal; Normal	Normal
28_1_4_115	MW-18	Appendix IV	Lead	mg/L	20	12	60%	0.847	0.088	0.296	0.038	0.878	0.179	0.261	0.111	0.284	0.05 <= p < 0.10	0.624	0.05 <= p < 0.10	0.361	Gamma; Lognormal; Normal	Nonparametric
28_1_4_116	MW-18	Appendix IV	Lithium	mg/L	20	0	0%	0.954	0.433	0.127	0.539	0.955	0.455	0.172	0.127	0.159	>= 0.10	0.459	>= 0.10	0.248	Gamma; Lognormal; Normal	Normal
28_1_4_117	MW-18	Appendix IV	Mercury	ng/L	20	15	75%	0.759	0.036	0.319	0.096	0.831	0.142	0.271	0.263	0.294	>= 0.10	0.597	0.05 <= p < 0.10	0.354	Gamma; Lognormal; Normal	Nonparametric
28_1_4_118	MW-18	Appendix IV	Molybdenum	mg/L	20	0	0%	0.953	0.420	0.148	0.303	0.973	0.823	0.132	0.474	0.131	>= 0.10	0.331	>= 0.10	0.293	Gamma; Lognormal; Normal	Normal
28_1_4_121	MW-18	Appendix IV	Radium 226 and 228	pCi/L	20	10	50%	0.758	0.004	0.291	0.016	0.878	0.124	0.222	0.173	0.238	>= 0.10	0.628	0.05 <= p < 0.10	0.295	Gamma; Lognormal	Nonparametric
28_1_4_122	MW-18	Appendix IV	Selenium	mg/L	20	0	0%	0.600	0.000	0.276	0.000	0.931	0.161	0.141	0.375	0.151	>= 0.10	0.780	0.01 <= p < 0.05	1.101	Gamma; Lognormal	Gamma
28_1_4_125	MW-18	Appendix IV	Thallium	mg/L	20	18	90%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.000		Nonparametric
28_1_5_111	MW-18	Part 115	Copper	mg/L	20	0	0%	0.673	0.000	0.268	0.001	0.877	0.016	0.201	0.034	0.234	< 0.01	1.346	< 0.01	0.681	Nonparametric	Nonparametric
28_1_5_114	MW-18	Part 115	Iron	mg/L	20	0	0%	0.981	0.942	0.123	0.589	0.883	0.020	0.194	0.048	0.163	>= 0.10	0.459	>= 0.10	0.372	Gamma; Normal	Normal
28_1_5_119	MW-18	Part 115	Nickel	mg/L	20	0	0%	0.913	0.072	0.221	0.012	0.952	0.396	0.165	0.163	0.188	0.05 <= p < 0.10	0.523	>= 0.10	0.349	Gamma; Lognormal; Normal	Normal
28_1_5_123	MW-18	Part 115	Silver	mg/L	20	20	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric

(Table continues on next page)

Note: p-values above 0.05 suggest a fit to the tested distribution; a distribution passes its GOF test when at least one of the two p-values is above 0.05.

Table 3: Goodness-of-Fit Tests, Non-Detects Excluded *(continued)*

								Normal				Lognormal				Gamma						
								S-W		Lilliefors		S-W		Lilliefors		K-S		A-D				
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Log-SD (NDs excl.)	ProUCL Distributions Fit	Recommended Distribution
28_1_5_128	MW-18	Part 115	Vanadium	mg/L	20	18	90%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.106		Nonparametric
28_1_5_129	MW-18	Part 115	Zinc	mg/L	20	0	0%	0.829	0.002	0.216	0.015	0.971	0.778	0.094	0.917	0.140	>= 0.10	0.482	>= 0.10	0.691	Gamma; Lognormal	Gamma
29_1_3_105	MW-19	Appendix III	Boron	mg/L	20	0	0%	0.939	0.230	0.121	0.620	0.956	0.476	0.103	0.834	0.110	>= 0.10	0.334	>= 0.10	0.229	Gamma; Lognormal; Normal	Normal
29_1_3_107	MW-19	Appendix III	Calcium	mg/L	20	0	0%	0.960	0.551	0.113	0.722	0.954	0.440	0.127	0.541	0.120	>= 0.10	0.367	>= 0.10	0.125	Gamma; Lognormal; Normal	Normal
29_1_3_108	MW-19	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	0.919	0.096	0.174	0.115	0.962	0.581	0.171	0.130	0.146	>= 0.10	0.416	>= 0.10	0.396	Gamma; Lognormal; Normal	Normal
29_1_3_112	MW-19	Appendix III	Fluoride	mg/L	20	0	0%	0.961	0.564	0.134	0.451	0.953	0.417	0.157	0.217	0.153	>= 0.10	0.382	>= 0.10	0.143	Gamma; Lognormal; Normal	Normal
29_1_3_120	MW-19	Appendix III	pH (field)	su	20	0	0%	0.915	0.081	0.133	0.466	0.906	0.055	0.138	0.410	0.137	>= 0.10	0.609	>= 0.10	0.028	Gamma; Lognormal; Normal	Normal
29_1_3_124	MW-19	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	0.964	0.621	0.117	0.666	0.967	0.699	0.088	0.952	0.093	>= 0.10	0.248	>= 0.10	0.189	Gamma; Lognormal; Normal	Normal
29_1_3_126	MW-19	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	0.912	0.071	0.200	0.034	0.928	0.143	0.182	0.080	0.190	0.05 <= p < 0.10	0.645	0.05 <= p < 0.10	0.135	Gamma; Lognormal; Normal	Normal
29_1_4_101	MW-19	Appendix IV	Antimony	mg/L	20	14	70%	0.947	0.716	0.181	0.780	0.893	0.333	0.277	0.158	0.258	>= 0.10	0.353	>= 0.10	0.732	Gamma; Lognormal; Normal	Nonparametric
29_1_4_102	MW-19	Appendix IV	Arsenic	mg/L	20	0	0%	0.938	0.220	0.122	0.604	0.903	0.048	0.143	0.351	0.147	>= 0.10	0.467	>= 0.10	0.572	Gamma; Lognormal; Normal	Normal
29_1_4_103	MW-19	Appendix IV	Barium	mg/L	20	0	0%	0.977	0.885	0.111	0.742	0.986	0.987	0.096	0.899	0.094	>= 0.10	0.160	>= 0.10	0.153	Gamma; Lognormal; Normal	Normal
29_1_4_104	MW-19	Appendix IV	Beryllium	mg/L	20	3	15%	0.929	0.210	0.143	0.467	0.949	0.447	0.157	0.325	0.159	>= 0.10	0.383	>= 0.10	0.285	Gamma; Lognormal; Normal	Normal
29_1_4_106	MW-19	Appendix IV	Cadmium	mg/L	20	18	90%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.129		Nonparametric
29_1_4_109	MW-19	Appendix IV	Chromium, Total	mg/L	20	6	30%	0.765	0.002	0.265	0.009	0.876	0.051	0.223	0.056	0.240	0.01 <= p < 0.05	0.788	0.01 <= p < 0.05	0.253	Lognormal	Lognormal
29_1_4_110	MW-19	Appendix IV	Cobalt	mg/L	20	2	10%	0.938	0.273	0.165	0.220	0.945	0.357	0.176	0.148	0.136	>= 0.10	0.300	>= 0.10	0.653	Gamma; Lognormal; Normal	Normal
29_1_4_113	MW-19	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	0.961	0.564	0.134	0.451	0.953	0.417	0.157	0.217	0.153	>= 0.10	0.382	>= 0.10	0.143	Gamma; Lognormal; Normal	Normal
29_1_4_115	MW-19	Appendix IV	Lead	mg/L	20	20	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
29_1_4_116	MW-19	Appendix IV	Lithium	mg/L	20	0	0%	0.936	0.201	0.171	0.131	0.946	0.311	0.147	0.307	0.153	>= 0.10	0.373	>= 0.10	0.127	Gamma; Lognormal; Normal	Normal
29_1_4_117	MW-19	Appendix IV	Mercury	ng/L	20	18	90%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.260		Nonparametric
29_1_4_118	MW-19	Appendix IV	Molybdenum	mg/L	20	0	0%	0.916	0.084	0.196	0.043	0.928	0.139	0.139	0.401	0.150	>= 0.10	0.549	>= 0.10	0.419	Gamma; Lognormal; Normal	Normal
29_1_4_121	MW-19	Appendix IV	Radium 226 and 228	pCi/L	20	9	45%	0.927	0.383	0.178	0.422	0.939	0.509	0.183	0.379	0.183	>= 0.10	0.381	>= 0.10	0.346	Gamma; Lognormal; Normal	Normal
29_1_4_122	MW-19	Appendix IV	Selenium	mg/L	20	11	55%	0.486	0.000	0.410	0.000	0.685	0.001	0.332	0.005	0.400	< 0.01	1.715	< 0.01	1.171	Nonparametric	Nonparametric
29_1_4_125	MW-19	Appendix IV	Thallium	mg/L	20	19	95%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
29_1_5_111	MW-19	Part 115	Copper	mg/L	20	16	80%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.299		Nonparametric
29_1_5_114	MW-19	Part 115	Iron	mg/L	20	0	0%	0.970	0.760	0.082	0.976	0.949	0.354	0.114	0.714	0.103	>= 0.10	0.270	>= 0.10	0.308	Gamma; Lognormal; Normal	Normal
29_1_5_119	MW-19	Part 115	Nickel	mg/L	20	1	5%	0.579	0.000	0.331	0.000	0.860	0.010	0.190	0.068	0.253	< 0.01	1.710	< 0.01	0.744	Lognormal	Lognormal
29_1_5_123	MW-19	Part 115	Silver	mg/L	20	20	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
29_1_5_128	MW-19	Part 115	Vanadium	mg/L	20	14	70%	0.967	0.869	0.174	0.822	0.985	0.975	0.175	0.819	0.152	>= 0.10	0.178	>= 0.10	0.387	Gamma; Lognormal; Normal	Nonparametric
29_1_5_129	MW-19	Part 115	Zinc	mg/L	20	10	50%	0.665	0.000	0.373	0.000	0.854	0.065	0.243	0.095	0.305	0.01 <= p < 0.05	0.997	0.01 <= p < 0.05	1.514	Lognormal	Nonparametric
30_1_3_105	MW-20	Appendix III	Boron	mg/L	20	0	0%	0.904	0.049	0.191	0.053	0.925	0.126	0.180	0.087	0.190	0.05 <= p < 0.10	0.677	0.05 <= p < 0.10	0.208	Gamma; Lognormal; Normal	Normal
30_1_3_107	MW-20	Appendix III	Calcium	mg/L	20	0	0%	0.887	0.024	0.165	0.162	0.761	0.000	0.221	0.012	0.198	0.01 <= p < 0.05	1.077	< 0.01	0.216	Normal	Normal
30_1_3_108	MW-20	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	0.935	0.193	0.158	0.211	0.920	0.100	0.217	0.014	0.204	0.01 <= p < 0.05	0.658	0.05 <= p < 0.10	0.460	Gamma; Lognormal; Normal	Normal
30_1_3_112	MW-20	Appendix III	Fluoride	mg/L	20	0	0%	0.701	0.000	0.233	0.006	0.832	0.003	0.187	0.065	0.186	0.05 <= p < 0.10	1.379	< 0.01	0.272	Gamma; Lognormal	Gamma
30_1_3_120	MW-20	Appendix III	pH (field)	su	20	0	0%	0.947	0.323	0.164	0.169	0.946	0.308	0.164	0.172	0.171	>= 0.10	0.447	>= 0.10	0.016	Gamma; Lognormal; Normal	Normal
30_1_3_124	MW-20	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	0.936	0.201	0.125	0.568	0.948	0.340	0.133	0.469	0.131	>= 0.10	0.271	>= 0.10	0.594	Gamma; Lognormal; Normal	Normal
30_1_3_126	MW-20	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	0.915	0.081	0.193	0.050	0.835	0.003	0.231	0.007	0.218	0.01 <= p < 0.05	0.950	0.01 <= p < 0.05	0.185	Normal	Normal
30_1_4_101	MW-20	Appendix IV	Antimony	mg/L	20	8	40%	0.512	0.000	0.389	0.000	0.813	0.013	0.224	0.099	0.285	0.01 <= p < 0.05	1.381	< 0.01	0.637	Lognormal	Lognormal
30_1_4_102	MW-20	Appendix IV	Arsenic	mg/L	20	0	0%	0.907	0.055	0.181	0.085	0.919	0.093	0.173	0.121	0.181	0.05 <= p < 0.10	0.650	0.05 <= p < 0.10	0.211	Gamma; Lognormal; Normal	Normal

(Table continues on next page)

Note: p-values above 0.05 suggest a fit to the tested distribution; a distribution passes its GOF test when at least one of the two p-values is above 0.05.

Table 3: Goodness-of-Fit Tests, Non-Detects Excluded *(continued)*

								Normal				Lognormal				Gamma						
								S-W		Lilliefors		S-W		Lilliefors		K-S		A-D				
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Log-SD (NDs excl.)	ProUCL Distributions Fit	Recommended Distribution
30_1_4_103	MW-20	Appendix IV	Barium	mg/L	20	0	0%	0.854	0.006	0.220	0.012	0.936	0.199	0.164	0.168	0.184	0.05 <= p < 0.10	0.672	0.05 <= p < 0.10	0.288	Gamma; Lognormal	Gamma
30_1_4_104	MW-20	Appendix IV	Beryllium	mg/L	20	19	95%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
30_1_4_106	MW-20	Appendix IV	Cadmium	mg/L	20	19	95%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
30_1_4_109	MW-20	Appendix IV	Chromium, Total	mg/L	20	10	50%	0.421	0.000	0.484	0.000	0.552	0.000	0.396	0.000	0.451	< 0.01	2.410	< 0.01	0.676	Nonparametric	Nonparametric
30_1_4_110	MW-20	Appendix IV	Cobalt	mg/L	20	0	0%	0.968	0.715	0.165	0.163	0.977	0.894	0.137	0.424	0.140	>= 0.10	0.265	>= 0.10	0.250	Gamma; Lognormal; Normal	Normal
30_1_4_113	MW-20	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	0.701	0.000	0.233	0.006	0.832	0.003	0.187	0.065	0.186	0.05 <= p < 0.10	1.379	< 0.01	0.272	Gamma; Lognormal	Gamma
30_1_4_115	MW-20	Appendix IV	Lead	mg/L	20	0	0%	0.594	0.000	0.289	0.000	0.860	0.008	0.185	0.072	0.225	0.01 <= p < 0.05	1.178	< 0.01	0.419	Lognormal	Lognormal
30_1_4_116	MW-20	Appendix IV	Lithium	mg/L	20	0	0%	0.967	0.682	0.118	0.655	0.936	0.205	0.153	0.257	0.137	>= 0.10	0.451	>= 0.10	0.295	Gamma; Lognormal; Normal	Normal
30_1_4_117	MW-20	Appendix IV	Mercury	ng/L	20	14	70%	0.939	0.650	0.249	0.290	0.922	0.518	0.276	0.163	0.236	>= 0.10	0.314	>= 0.10	0.586	Gamma; Lognormal; Normal	Nonparametric
30_1_4_118	MW-20	Appendix IV	Molybdenum	mg/L	20	0	0%	0.985	0.984	0.100	0.867	0.959	0.526	0.121	0.615	0.119	>= 0.10	0.251	>= 0.10	0.208	Gamma; Lognormal; Normal	Normal
30_1_4_121	MW-20	Appendix IV	Radium 226 and 228	pCi/L	19	10	53%	0.785	0.014	0.317	0.009	0.864	0.106	0.290	0.028	0.310	0.01 <= p < 0.05	0.728	0.01 <= p < 0.05	0.368	Lognormal	Nonparametric
30_1_4_122	MW-20	Appendix IV	Selenium	mg/L	20	12	60%	0.678	0.001	0.388	0.001	0.759	0.010	0.346	0.005	0.374	< 0.01	1.072	< 0.01	0.531	Nonparametric	Nonparametric
30_1_4_125	MW-20	Appendix IV	Thallium	mg/L	20	19	95%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
30_1_5_111	MW-20	Part 115	Copper	mg/L	20	2	10%	0.526	0.000	0.340	0.000	0.854	0.010	0.167	0.206	0.241	0.01 <= p < 0.05	1.489	< 0.01	0.706	Lognormal	Lognormal
30_1_5_114	MW-20	Part 115	Iron	mg/L	20	0	0%	0.939	0.234	0.180	0.087	0.923	0.113	0.210	0.021	0.203	0.01 <= p < 0.05	0.521	>= 0.10	0.194	Gamma; Lognormal; Normal	Normal
30_1_5_119	MW-20	Part 115	Nickel	mg/L	20	0	0%	0.505	0.000	0.385	0.000	0.783	0.000	0.281	0.000	0.321	< 0.01	1.979	< 0.01	0.389	Nonparametric	Nonparametric
30_1_5_123	MW-20	Part 115	Silver	mg/L	20	20	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
30_1_5_128	MW-20	Part 115	Vanadium	mg/L	20	20	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
30_1_5_129	MW-20	Part 115	Zinc	mg/L	20	0	0%	0.820	0.002	0.255	0.001	0.961	0.570	0.172	0.128	0.208	0.01 <= p < 0.05	0.589	>= 0.10	0.553	Gamma; Lognormal	Gamma
38_1_3_105	MW-28	Appendix III	Boron	mg/L	10	0	0%	0.949	0.657	0.127	0.919	0.850	0.057	0.231	0.135	0.172	>= 0.10	0.442	>= 0.10	0.974	Gamma; Lognormal; Normal	Normal
38_1_3_107	MW-28	Appendix III	Calcium	mg/L	10	0	0%	0.980	0.967	0.142	0.820	0.979	0.959	0.170	0.569	0.153	>= 0.10	0.184	>= 0.10	0.188	Gamma; Lognormal; Normal	Normal
38_1_3_108	MW-28	Appendix III	Chloride (as Cl)	mg/L	10	0	0%	0.913	0.302	0.212	0.229	0.868	0.095	0.248	0.083	0.255	0.05 <= p < 0.10	0.541	>= 0.10	0.941	Gamma; Lognormal; Normal	Normal
38_1_3_112	MW-28	Appendix III	Fluoride	mg/L	10	0	0%	0.959	0.780	0.136	0.862	0.913	0.304	0.199	0.313	0.181	>= 0.10	0.370	>= 0.10	0.502	Gamma; Lognormal; Normal	Normal
38_1_3_120	MW-28	Appendix III	pH (field)	su	10	0	0%	0.936	0.513	0.183	0.450	0.932	0.470	0.186	0.418	0.184	>= 0.10	0.362	>= 0.10	0.020	Gamma; Lognormal; Normal	Normal
38_1_3_124	MW-28	Appendix III	Sulfate (as SO4)	mg/L	10	2	20%	0.851	0.097	0.217	0.321	0.771	0.014	0.270	0.088	0.278	>= 0.10	0.799	0.01 <= p < 0.05	2.111	Gamma; Lognormal; Normal	Gamma
38_1_3_126	MW-28	Appendix III	Total Dissolved Solids	mg/L	10	0	0%	0.965	0.842	0.138	0.854	0.951	0.681	0.153	0.726	0.158	>= 0.10	0.275	>= 0.10	0.264	Gamma; Lognormal; Normal	Normal
38_1_4_101	MW-28	Appendix IV	Antimony	mg/L	10	0	0%	0.755	0.004	0.244	0.094	0.923	0.384	0.167	0.598	0.192	>= 0.10	0.515	>= 0.10	0.920	Gamma; Lognormal; Normal	Normal
38_1_4_102	MW-28	Appendix IV	Arsenic	mg/L	10	0	0%	0.756	0.004	0.271	0.036	0.948	0.641	0.168	0.591	0.207	>= 0.10	0.480	>= 0.10	0.669	Gamma; Lognormal	Gamma
38_1_4_103	MW-28	Appendix IV	Barium	mg/L	10	0	0%	0.827	0.031	0.240	0.104	0.793	0.012	0.274	0.032	0.276	0.01 <= p < 0.05	0.873	0.01 <= p < 0.05	0.545	Normal	Normal
38_1_4_104	MW-28	Appendix IV	Beryllium	mg/L	10	10	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
38_1_4_106	MW-28	Appendix IV	Cadmium	mg/L	10	5	50%	0.711	0.012	0.389	0.013	0.901	0.416	0.228	0.535	0.252	>= 0.10	0.411	>= 0.10	1.602	Gamma; Lognormal	Nonparametric
38_1_4_109	MW-28	Appendix IV	Chromium, Total	mg/L	10	0	0%	0.923	0.379	0.216	0.205	0.857	0.070	0.217	0.199	0.213	>= 0.10	0.460	>= 0.10	0.699	Gamma; Lognormal; Normal	Normal
38_1_4_110	MW-28	Appendix IV	Cobalt	mg/L	10	0	0%	0.891	0.173	0.204	0.277	0.878	0.124	0.230	0.141	0.224	>= 0.10	0.580	>= 0.10	0.928	Gamma; Lognormal; Normal	Normal
38_1_4_113	MW-28	Appendix IV	Fluoride (App IV)	mg/L	10	0	0%	0.959	0.780	0.136	0.862	0.913	0.304	0.199	0.313	0.181	>= 0.10	0.370	>= 0.10	0.502	Gamma; Lognormal; Normal	Normal
38_1_4_115	MW-28	Appendix IV	Lead	mg/L	10	0	0%	0.753	0.004	0.250	0.077	0.966	0.847	0.183	0.443	0.228	>= 0.10	0.375	>= 0.10	1.365	Gamma; Lognormal; Normal	Gamma
38_1_4_116	MW-28	Appendix IV	Lithium	mg/L	10	0	0%	0.925	0.398	0.151	0.749	0.805	0.017	0.255	0.065	0.211	>= 0.10	0.597	>= 0.10	1.164	Gamma; Lognormal; Normal	Gamma
38_1_4_117	MW-28	Appendix IV	Mercury	ng/L	10	3	30%	0.592	0.000	0.403	0.001	0.973	0.922	0.167	0.800	0.245	>= 0.10	0.423	>= 0.10	1.929	Gamma; Lognormal	Gamma
38_1_4_118	MW-28	Appendix IV	Molybdenum	mg/L	10	0	0%	0.901	0.226	0.203	0.285	0.954	0.715	0.192	0.374	0.142	>= 0.10	0.243	>= 0.10	0.849	Gamma; Lognormal; Normal	Normal
38_1_4_121	MW-28	Appendix IV	Radium 226 and 228	pCi/L	9	2	22%	0.766	0.018	0.336	0.016	0.805	0.046	0.308	0.043	0.326	0.01 <= p < 0.05	0.794	0.01 <= p < 0.05	0.244	Nonparametric	Nonparametric

(Table continues on next page)

Note: p-values above 0.05 suggest a fit to the tested distribution; a distribution passes its GOF test when at least one of the two p-values is above 0.05.

Table 3: Goodness-of-Fit Tests, Non-Detects Excluded *(continued)*

								Normal				Lognormal				Gamma						
								S-W		Lilliefors		S-W		Lilliefors		K-S		A-D				
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Log-SD (NDs excl.)	ProUCL Distributions Fit	Recommended Distribution
38_1_4_122	MW-28	Appendix IV	Selenium	mg/L	10	0	0%	0.481	0.000	0.417	0.000	0.646	0.000	0.286	0.020	0.342	< 0.01	1.872	< 0.01	0.571	Nonparametric	Nonparametric
38_1_4_125	MW-28	Appendix IV	Thallium	mg/L	10	10	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
38_1_5_111	MW-28	Part 115	Copper	mg/L	10	1	10%	0.735	0.004	0.300	0.019	0.941	0.592	0.154	0.775	0.225	>= 0.10	0.460	>= 0.10	1.104	Gamma; Lognormal	Gamma
38_1_5_114	MW-28	Part 115	Iron	mg/L	10	0	0%	0.856	0.069	0.217	0.203	0.663	0.000	0.327	0.003	0.285	0.01 <= p < 0.05	1.198	< 0.01	1.082	Normal	Normal
38_1_5_119	MW-28	Part 115	Nickel	mg/L	10	0	0%	0.934	0.485	0.118	0.959	0.882	0.136	0.200	0.310	0.166	>= 0.10	0.360	>= 0.10	0.962	Gamma; Lognormal; Normal	Normal
38_1_5_123	MW-28	Part 115	Silver	mg/L	10	10	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
38_1_5_128	MW-28	Part 115	Vanadium	mg/L	10	2	20%	0.922	0.445	0.208	0.390	0.967	0.872	0.158	0.807	0.170	>= 0.10	0.277	>= 0.10	0.277	Gamma; Lognormal; Normal	Normal
38_1_5_129	MW-28	Part 115	Zinc	mg/L	10	0	0%	0.814	0.021	0.195	0.345	0.932	0.467	0.176	0.508	0.133	>= 0.10	0.187	>= 0.10	1.608	Gamma; Lognormal; Normal	Gamma
40_1_3_105	MW-30	Appendix III	Boron	mg/L	20	0	0%	0.748	0.000	0.226	0.009	0.871	0.012	0.174	0.118	0.185	0.05 <= p < 0.10	0.995	0.01 <= p < 0.05	0.201	Gamma; Lognormal	Gamma
40_1_3_107	MW-30	Appendix III	Calcium	mg/L	20	0	0%	0.834	0.003	0.234	0.005	0.622	0.000	0.338	0.000	0.292	< 0.01	2.028	< 0.01	0.518	Nonparametric	Nonparametric
40_1_3_108	MW-30	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	0.748	0.000	0.305	0.000	0.863	0.009	0.226	0.009	0.269	< 0.01	1.404	< 0.01	0.961	Nonparametric	Nonparametric
40_1_3_112	MW-30	Appendix III	Fluoride	mg/L	20	0	0%	0.884	0.021	0.206	0.025	0.800	0.001	0.229	0.007	0.225	0.01 <= p < 0.05	1.173	< 0.01	0.186	Nonparametric	Nonparametric
40_1_3_120	MW-30	Appendix III	pH (field)	su	20	0	0%	0.854	0.006	0.160	0.194	0.842	0.004	0.166	0.158	0.163	>= 0.10	0.812	0.01 <= p < 0.05	0.026	Gamma; Lognormal; Normal	Normal
40_1_3_124	MW-30	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	0.886	0.022	0.181	0.083	0.840	0.004	0.222	0.011	0.210	0.01 <= p < 0.05	1.050	< 0.01	0.223	Normal	Normal
40_1_3_126	MW-30	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	0.798	0.001	0.269	0.001	0.859	0.007	0.253	0.002	0.264	< 0.01	1.452	< 0.01	0.246	Nonparametric	Nonparametric
40_1_4_101	MW-30	Appendix IV	Antimony	mg/L	20	16	80%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.482		Nonparametric
40_1_4_102	MW-30	Appendix IV	Arsenic	mg/L	20	2	10%	0.595	0.000	0.280	0.001	0.981	0.956	0.100	0.908	0.170	>= 0.10	0.709	0.05 <= p < 0.10	1.016	Gamma; Lognormal	Gamma
40_1_4_103	MW-30	Appendix IV	Barium	mg/L	20	0	0%	0.920	0.101	0.132	0.475	0.953	0.411	0.109	0.767	0.119	>= 0.10	0.414	>= 0.10	0.298	Gamma; Lognormal; Normal	Normal
40_1_4_104	MW-30	Appendix IV	Beryllium	mg/L	20	16	80%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.314		Nonparametric
40_1_4_106	MW-30	Appendix IV	Cadmium	mg/L	20	19	95%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
40_1_4_109	MW-30	Appendix IV	Chromium, Total	mg/L	20	0	0%	0.889	0.026	0.128	0.528	0.984	0.975	0.091	0.938	0.086	>= 0.10	0.217	>= 0.10	0.471	Gamma; Lognormal; Normal	Normal
40_1_4_110	MW-30	Appendix IV	Cobalt	mg/L	20	0	0%	0.329	0.000	0.385	0.000	0.824	0.002	0.206	0.025	0.307	< 0.01	2.871	< 0.01	1.113	Nonparametric	Nonparametric
40_1_4_113	MW-30	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	0.884	0.021	0.206	0.025	0.800	0.001	0.229	0.007	0.225	0.01 <= p < 0.05	1.173	< 0.01	0.186	Nonparametric	Nonparametric
40_1_4_115	MW-30	Appendix IV	Lead	mg/L	20	18	90%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		2.496		Nonparametric
40_1_4_116	MW-30	Appendix IV	Lithium	mg/L	20	0	0%	0.834	0.003	0.186	0.069	0.937	0.212	0.168	0.144	0.178	0.05 <= p < 0.10	0.641	0.05 <= p < 0.10	0.257	Gamma; Lognormal; Normal	Normal
40_1_4_117	MW-30	Appendix IV	Mercury	ng/L	20	18	90%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		5.258		Nonparametric
40_1_4_118	MW-30	Appendix IV	Molybdenum	mg/L	20	3	15%	0.512	0.000	0.372	0.000	0.886	0.041	0.237	0.012	0.294	< 0.01	1.820	< 0.01	1.227	Nonparametric	Nonparametric
40_1_4_121	MW-30	Appendix IV	Radium 226 and 228	pCi/L	20	11	55%	0.924	0.423	0.209	0.311	0.936	0.543	0.173	0.609	0.193	>= 0.10	0.349	>= 0.10	0.254	Gamma; Lognormal; Normal	Nonparametric
40_1_4_122	MW-30	Appendix IV	Selenium	mg/L	20	7	35%	0.463	0.000	0.378	0.000	0.728	0.001	0.238	0.043	0.293	< 0.01	1.993	< 0.01	0.727	Nonparametric	Nonparametric
40_1_4_125	MW-30	Appendix IV	Thallium	mg/L	20	20	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
40_1_5_111	MW-30	Part 115	Copper	mg/L	20	14	70%	0.517	0.000	0.476	0.000	0.700	0.006	0.348	0.022	0.443	< 0.01	1.264	< 0.01	1.570	Nonparametric	Nonparametric
40_1_5_114	MW-30	Part 115	Iron	mg/L	20	0	0%	0.693	0.000	0.231	0.007	0.966	0.674	0.082	0.977	0.135	>= 0.10	0.490	>= 0.10	0.763	Gamma; Lognormal	Gamma
40_1_5_119	MW-30	Part 115	Nickel	mg/L	20	3	15%	0.346	0.000	0.410	0.000	0.876	0.027	0.213	0.038	0.281	< 0.01	2.275	< 0.01	1.289	Nonparametric	Nonparametric
40_1_5_123	MW-30	Part 115	Silver	mg/L	20	19	95%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
40_1_5_128	MW-30	Part 115	Vanadium	mg/L	20	16	80%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		2.005		Nonparametric
40_1_5_129	MW-30	Part 115	Zinc	mg/L	20	10	50%	0.678	0.000	0.352	0.001	0.935	0.499	0.183	0.452	0.266	0.05 <= p < 0.10	0.723	0.05 <= p < 0.10	1.454	Gamma; Lognormal	Nonparametric
41_1_3_105	MW-31	Appendix III	Boron	mg/L	20	0	0%	0.923	0.111	0.175	0.112	0.962	0.574	0.154	0.241	0.164	>= 0.10	0.427	>= 0.10	0.218	Gamma; Lognormal; Normal	Normal
41_1_3_107	MW-31	Appendix III	Calcium	mg/L	20	0	0%	0.768	0.000	0.239	0.004	0.869	0.011	0.212	0.019	0.225	0.01 <= p < 0.05	1.143	< 0.01	0.221	Nonparametric	Nonparametric
41_1_3_108	MW-31	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	0.760	0.000	0.258	0.001	0.836	0.003	0.213	0.017	0.224	0.01 <= p < 0.05	1.347	< 0.01	0.175	Nonparametric	Nonparametric

(Table continues on next page)

Note: p-values above 0.05 suggest a fit to the tested distribution; a distribution passes its GOF test when at least one of the two p-values is above 0.05.

Table 3: Goodness-of-Fit Tests, Non-Detects Excluded *(continued)*

								Normal				Lognormal				Gamma						
								S-W		Lilliefors		S-W		Lilliefors		K-S		A-D				
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Log-SD (NDs excl.)	ProUCL Distributions Fit	Recommended Distribution
41_1_3_112	MW-31	Appendix III	Fluoride	mg/L	20	0	0%	0.873	0.013	0.275	0.000	0.832	0.003	0.296	0.000	0.292	< 0.01	1.321	< 0.01	0.168	Nonparametric	Nonparametric
41_1_3_120	MW-31	Appendix III	pH (field)	su	20	0	0%	0.912	0.069	0.145	0.330	0.903	0.048	0.150	0.284	0.142	>= 0.10	0.567	>= 0.10	0.023	Gamma; Lognormal; Normal	Normal
41_1_3_124	MW-31	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	0.810	0.001	0.207	0.025	0.969	0.726	0.132	0.484	0.132	>= 0.10	0.231	>= 0.10	0.791	Gamma; Lognormal	Gamma
41_1_3_126	MW-31	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	0.679	0.000	0.263	0.001	0.757	0.000	0.227	0.008	0.240	< 0.01	1.882	< 0.01	0.185	Nonparametric	Nonparametric
41_1_4_101	MW-31	Appendix IV	Antimony	mg/L	20	7	35%	0.812	0.010	0.221	0.082	0.907	0.164	0.180	0.299	0.196	>= 0.10	0.539	>= 0.10	1.013	Gamma; Lognormal; Normal	Gamma
41_1_4_102	MW-31	Appendix IV	Arsenic	mg/L	20	0	0%	0.563	0.000	0.405	0.000	0.753	0.000	0.265	0.001	0.330	< 0.01	2.899	< 0.01	0.696	Nonparametric	Nonparametric
41_1_4_103	MW-31	Appendix IV	Barium	mg/L	20	0	0%	0.928	0.144	0.137	0.414	0.980	0.935	0.103	0.835	0.121	>= 0.10	0.256	>= 0.10	0.347	Gamma; Lognormal; Normal	Normal
41_1_4_104	MW-31	Appendix IV	Beryllium	mg/L	20	17	85%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.315		Nonparametric
41_1_4_106	MW-31	Appendix IV	Cadmium	mg/L	20	19	95%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
41_1_4_109	MW-31	Appendix IV	Chromium, Total	mg/L	20	0	0%	0.814	0.001	0.216	0.015	0.905	0.051	0.168	0.148	0.190	0.05 <= p < 0.10	0.893	0.01 <= p < 0.05	0.382	Gamma; Lognormal	Gamma
41_1_4_110	MW-31	Appendix IV	Cobalt	mg/L	20	3	15%	0.566	0.000	0.291	0.000	0.861	0.016	0.193	0.093	0.236	0.01 <= p < 0.05	1.370	< 0.01	0.551	Lognormal	Lognormal
41_1_4_113	MW-31	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	0.873	0.013	0.275	0.000	0.832	0.003	0.296	0.000	0.292	< 0.01	1.321	< 0.01	0.168	Nonparametric	Nonparametric
41_1_4_115	MW-31	Appendix IV	Lead	mg/L	20	14	70%	0.795	0.053	0.245	0.313	0.816	0.081	0.227	0.432	0.249	>= 0.10	0.629	0.05 <= p < 0.10	0.272	Gamma; Lognormal; Normal	Nonparametric
41_1_4_116	MW-31	Appendix IV	Lithium	mg/L	20	0	0%	0.889	0.026	0.213	0.018	0.950	0.373	0.164	0.172	0.180	0.05 <= p < 0.10	0.648	0.05 <= p < 0.10	0.260	Gamma; Lognormal	Gamma
41_1_4_117	MW-31	Appendix IV	Mercury	ng/L	20	14	70%	0.979	0.944	0.166	0.871	0.928	0.565	0.236	0.369	0.200	>= 0.10	0.267	>= 0.10	0.448	Gamma; Lognormal; Normal	Nonparametric
41_1_4_118	MW-31	Appendix IV	Molybdenum	mg/L	20	0	0%	0.663	0.000	0.338	0.000	0.885	0.022	0.226	0.009	0.269	< 0.01	1.789	< 0.01	0.939	Nonparametric	Nonparametric
41_1_4_121	MW-31	Appendix IV	Radium 226 and 228	pCi/L	20	8	40%	0.778	0.005	0.254	0.031	0.861	0.050	0.189	0.278	0.207	>= 0.10	0.875	0.01 <= p < 0.05	0.294	Gamma; Lognormal	Gamma
41_1_4_122	MW-31	Appendix IV	Selenium	mg/L	20	6	30%	0.319	0.000	0.508	0.000	0.693	0.000	0.282	0.004	0.386	< 0.01	3.113	< 0.01	1.597	Nonparametric	Nonparametric
41_1_4_125	MW-31	Appendix IV	Thallium	mg/L	20	19	95%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
41_1_5_111	MW-31	Part 115	Copper	mg/L	20	10	50%	0.680	0.000	0.358	0.001	0.811	0.020	0.283	0.022	0.331	< 0.01	1.130	< 0.01	0.912	Nonparametric	Nonparametric
41_1_5_114	MW-31	Part 115	Iron	mg/L	20	0	0%	0.695	0.000	0.248	0.002	0.933	0.179	0.176	0.107	0.183	>= 0.10	0.709	0.05 <= p < 0.10	1.195	Gamma; Lognormal	Gamma
41_1_5_119	MW-31	Part 115	Nickel	mg/L	20	10	50%	0.652	0.000	0.294	0.014	0.907	0.259	0.211	0.236	0.209	>= 0.10	0.529	>= 0.10	2.248	Gamma; Lognormal	Nonparametric
41_1_5_123	MW-31	Part 115	Silver	mg/L	20	20	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
41_1_5_128	MW-31	Part 115	Vanadium	mg/L	20	12	60%	0.945	0.660	0.152	0.848	0.919	0.425	0.159	0.800	0.171	>= 0.10	0.323	>= 0.10	0.223	Gamma; Lognormal; Normal	Nonparametric
41_1_5_129	MW-31	Part 115	Zinc	mg/L	20	9	45%	0.855	0.049	0.196	0.278	0.872	0.083	0.198	0.266	0.211	>= 0.10	0.522	>= 0.10	1.178	Gamma; Lognormal; Normal	Gamma
42_1_3_105	MW-32	Appendix III	Boron	mg/L	20	0	0%	0.872	0.013	0.214	0.017	0.906	0.054	0.201	0.033	0.211	0.01 <= p < 0.05	0.865	0.01 <= p < 0.05	0.241	Lognormal	Lognormal
42_1_3_107	MW-32	Appendix III	Calcium	mg/L	20	0	0%	0.951	0.384	0.125	0.572	0.966	0.670	0.111	0.744	0.121	>= 0.10	0.306	>= 0.10	0.160	Gamma; Lognormal; Normal	Normal
42_1_3_108	MW-32	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	0.961	0.568	0.153	0.256	0.927	0.135	0.152	0.266	0.145	>= 0.10	0.508	>= 0.10	0.170	Gamma; Lognormal; Normal	Normal
42_1_3_112	MW-32	Appendix III	Fluoride	mg/L	20	0	0%	0.933	0.174	0.194	0.048	0.925	0.125	0.219	0.013	0.207	0.01 <= p < 0.05	0.718	0.05 <= p < 0.10	0.142	Gamma; Lognormal; Normal	Normal
42_1_3_120	MW-32	Appendix III	pH (field)	su	20	0	0%	0.859	0.007	0.180	0.088	0.851	0.006	0.184	0.073	0.177	>= 0.10	0.938	0.01 <= p < 0.05	0.017	Gamma; Lognormal; Normal	Normal
42_1_3_124	MW-32	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	0.875	0.014	0.164	0.173	0.916	0.083	0.148	0.304	0.124	>= 0.10	0.348	>= 0.10	1.302	Gamma; Lognormal; Normal	Gamma
42_1_3_126	MW-32	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	0.964	0.636	0.120	0.628	0.964	0.630	0.128	0.533	0.131	>= 0.10	0.264	>= 0.10	0.136	Gamma; Lognormal; Normal	Normal
42_1_4_101	MW-32	Appendix IV	Antimony	mg/L	20	16	80%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		1.090		Nonparametric
42_1_4_102	MW-32	Appendix IV	Arsenic	mg/L	20	0	0%	0.407	0.000	0.414	0.000	0.642	0.000	0.281	0.000	0.335	< 0.01	2.877	< 0.01	0.387	Nonparametric	Nonparametric
42_1_4_103	MW-32	Appendix IV	Barium	mg/L	20	0	0%	0.935	0.196	0.177	0.105	0.925	0.125	0.127	0.542	0.097	>= 0.10	0.209	>= 0.10	0.736	Gamma; Lognormal; Normal	Normal
42_1_4_104	MW-32	Appendix IV	Beryllium	mg/L	20	19	95%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
42_1_4_106	MW-32	Appendix IV	Cadmium	mg/L	20	16	80%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.485		Nonparametric
42_1_4_109	MW-32	Appendix IV	Chromium, Total	mg/L	20	0	0%	0.363	0.000	0.375	0.000	0.606	0.000	0.269	0.001	0.293	< 0.01	3.486	< 0.01	0.501	Nonparametric	Nonparametric
42_1_4_110	MW-32	Appendix IV	Cobalt	mg/L	20	0	0%	0.559	0.000	0.372	0.000	0.842	0.004	0.232	0.006	0.293	< 0.01	1.939	< 0.01	0.620	Nonparametric	Nonparametric

(Table continues on next page)

Note: p-values above 0.05 suggest a fit to the tested distribution; a distribution passes its GOF test when at least one of the two p-values is above 0.05.

Table 3: Goodness-of-Fit Tests, Non-Detects Excluded *(continued)*

								Normal				Lognormal				Gamma						
								S-W		Lilliefors		S-W		Lilliefors		K-S		A-D				
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Log-SD (NDs excl.)	ProUCL Distributions Fit	Recommended Distribution
42_1_4_113	MW-32	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	0.933	0.174	0.194	0.048	0.925	0.125	0.219	0.013	0.207	0.01 <= p < 0.05	0.718	0.05 <= p < 0.10	0.142	Gamma; Lognormal; Normal	Normal
42_1_4_115	MW-32	Appendix IV	Lead	mg/L	20	15	75%	0.781	0.056	0.330	0.080	0.769	0.044	0.345	0.052	0.365	0.01 <= p < 0.05	0.721	0.01 <= p < 0.05	0.616	Lognormal; Normal	Nonparametric
42_1_4_116	MW-32	Appendix IV	Lithium	mg/L	20	0	0%	0.925	0.123	0.140	0.387	0.938	0.224	0.153	0.252	0.156	>= 0.10	0.418	>= 0.10	0.236	Gamma; Lognormal; Normal	Normal
42_1_4_117	MW-32	Appendix IV	Mercury	ng/L	20	15	75%	0.553	0.000	0.472	0.001	0.672	0.005	0.409	0.006	0.481	< 0.01	1.114	0.01 <= p < 0.05	3.590	Nonparametric	Nonparametric
42_1_4_118	MW-32	Appendix IV	Molybdenum	mg/L	20	0	0%	0.958	0.496	0.123	0.590	0.942	0.260	0.123	0.588	0.115	>= 0.10	0.355	>= 0.10	0.427	Gamma; Lognormal; Normal	Normal
42_1_4_121	MW-32	Appendix IV	Radium 226 and 228	pCi/L	20	9	45%	0.981	0.971	0.142	0.773	0.958	0.745	0.143	0.764	0.155	>= 0.10	0.206	>= 0.10	0.253	Gamma; Lognormal; Normal	Normal
42_1_4_122	MW-32	Appendix IV	Selenium	mg/L	20	16	80%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		1.061		Nonparametric
42_1_4_125	MW-32	Appendix IV	Thallium	mg/L	20	20	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
42_1_5_111	MW-32	Part 115	Copper	mg/L	20	12	60%	0.430	0.000	0.506	0.000	0.573	0.000	0.423	0.000	0.503	< 0.01	2.125	< 0.01	1.429	Nonparametric	Nonparametric
42_1_5_114	MW-32	Part 115	Iron	mg/L	20	0	0%	0.970	0.764	0.118	0.655	0.976	0.871	0.113	0.724	0.102	>= 0.10	0.188	>= 0.10	0.222	Gamma; Lognormal; Normal	Normal
42_1_5_119	MW-32	Part 115	Nickel	mg/L	20	0	0%	0.415	0.000	0.413	0.000	0.676	0.000	0.286	0.000	0.348	< 0.01	3.765	< 0.01	0.899	Nonparametric	Nonparametric
42_1_5_123	MW-32	Part 115	Silver	mg/L	20	20	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
42_1_5_128	MW-32	Part 115	Vanadium	mg/L	20	20	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
42_1_5_129	MW-32	Part 115	Zinc	mg/L	20	0	0%	0.716	0.000	0.368	0.000	0.789	0.001	0.289	0.000	0.338	< 0.01	2.130	< 0.01	1.307	Nonparametric	Nonparametric
46_1_3_105	MW-36	Appendix III	Boron	mg/L	10	0	0%	0.904	0.242	0.209	0.245	0.902	0.230	0.202	0.297	0.218	>= 0.10	0.506	>= 0.10	0.325	Gamma; Lognormal; Normal	Normal
46_1_3_107	MW-36	Appendix III	Calcium	mg/L	10	0	0%	0.940	0.552	0.177	0.504	0.931	0.462	0.192	0.373	0.195	>= 0.10	0.453	>= 0.10	0.110	Gamma; Lognormal; Normal	Normal
46_1_3_108	MW-36	Appendix III	Chloride (as Cl)	mg/L	10	0	0%	0.895	0.193	0.220	0.185	0.835	0.039	0.248	0.082	0.248	0.05 <= p < 0.10	0.685	0.05 <= p < 0.10	0.328	Gamma; Lognormal; Normal	Normal
46_1_3_112	MW-36	Appendix III	Fluoride	mg/L	10	0	0%	0.877	0.120	0.206	0.267	0.909	0.277	0.171	0.555	0.182	>= 0.10	0.458	>= 0.10	0.189	Gamma; Lognormal; Normal	Normal
46_1_3_120	MW-36	Appendix III	pH (field)	su	10	0	0%	0.914	0.308	0.215	0.211	0.878	0.123	0.236	0.117	0.214	>= 0.10	0.498	>= 0.10	0.103	Gamma; Lognormal; Normal	Normal
46_1_3_124	MW-36	Appendix III	Sulfate (as SO4)	mg/L	10	0	0%	0.869	0.097	0.242	0.100	0.901	0.224	0.177	0.502	0.199	>= 0.10	0.474	>= 0.10	0.506	Gamma; Lognormal; Normal	Normal
46_1_3_126	MW-36	Appendix III	Total Dissolved Solids	mg/L	10	0	0%	0.915	0.317	0.191	0.381	0.891	0.175	0.195	0.349	0.209	>= 0.10	0.448	>= 0.10	0.114	Gamma; Lognormal; Normal	Normal
46_1_4_101	MW-36	Appendix IV	Antimony	mg/L	10	0	0%	0.783	0.009	0.299	0.011	0.878	0.125	0.286	0.020	0.305	0.01 <= p < 0.05	0.762	0.01 <= p < 0.05	0.519	Lognormal	Lognormal
46_1_4_102	MW-36	Appendix IV	Arsenic	mg/L	10	0	0%	0.722	0.002	0.379	0.000	0.843	0.048	0.307	0.008	0.337	< 0.01	1.006	< 0.01	0.460	Nonparametric	Nonparametric
46_1_4_103	MW-36	Appendix IV	Barium	mg/L	10	0	0%	0.951	0.675	0.135	0.872	0.947	0.632	0.133	0.885	0.140	>= 0.10	0.242	>= 0.10	0.220	Gamma; Lognormal; Normal	Normal
46_1_4_104	MW-36	Appendix IV	Beryllium	mg/L	10	9	90%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
46_1_4_106	MW-36	Appendix IV	Cadmium	mg/L	10	2	20%	0.805	0.032	0.271	0.087	0.946	0.668	0.186	0.568	0.231	>= 0.10	0.358	>= 0.10	0.750	Gamma; Lognormal; Normal	Normal
46_1_4_109	MW-36	Appendix IV	Chromium, Total	mg/L	10	0	0%	0.874	0.111	0.198	0.320	0.968	0.868	0.170	0.565	0.193	>= 0.10	0.339	>= 0.10	0.447	Gamma; Lognormal; Normal	Normal
46_1_4_110	MW-36	Appendix IV	Cobalt	mg/L	10	0	0%	0.850	0.058	0.272	0.035	0.884	0.146	0.246	0.087	0.264	0.05 <= p < 0.10	0.674	0.05 <= p < 0.10	0.246	Gamma; Lognormal; Normal	Normal
46_1_4_113	MW-36	Appendix IV	Fluoride (App IV)	mg/L	10	0	0%	0.877	0.120	0.206	0.267	0.909	0.277	0.171	0.555	0.182	>= 0.10	0.458	>= 0.10	0.189	Gamma; Lognormal; Normal	Normal
46_1_4_115	MW-36	Appendix IV	Lead	mg/L	10	0	0%	0.814	0.021	0.232	0.132	0.949	0.658	0.141	0.828	0.174	>= 0.10	0.399	>= 0.10	0.800	Gamma; Lognormal; Normal	Normal
46_1_4_116	MW-36	Appendix IV	Lithium	mg/L	10	0	0%	0.954	0.720	0.186	0.417	0.909	0.274	0.189	0.396	0.194	>= 0.10	0.375	>= 0.10	0.378	Gamma; Lognormal; Normal	Normal
46_1_4_117	MW-36	Appendix IV	Mercury	ng/L	10	4	40%	0.886	0.298	0.263	0.218	0.929	0.574	0.204	0.607	0.230	>= 0.10	0.377	>= 0.10	0.396	Gamma; Lognormal; Normal	Normal
46_1_4_118	MW-36	Appendix IV	Molybdenum	mg/L	10	0	0%	0.901	0.225	0.209	0.246	0.932	0.465	0.151	0.746	0.170	>= 0.10	0.355	>= 0.10	0.319	Gamma; Lognormal; Normal	Normal
46_1_4_121	MW-36	Appendix IV	Radium 226 and 228	pCi/L	9	7	78%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.498		Nonparametric
46_1_4_122	MW-36	Appendix IV	Selenium	mg/L	10	0	0%	0.961	0.793	0.162	0.648	0.965	0.841	0.159	0.671	0.149	>= 0.10	0.274	>= 0.10	0.267	Gamma; Lognormal; Normal	Normal
46_1_4_125	MW-36	Appendix IV	Thallium	mg/L	10	10	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
46_1_5_111	MW-36	Part 115	Copper	mg/L	10	0	0%	0.798	0.014	0.256	0.063	0.912	0.297	0.201	0.301	0.227	>= 0.10	0.568	>= 0.10	0.785	Gamma; Lognormal; Normal	Normal
46_1_5_114	MW-36	Part 115	Iron	mg/L	10	0	0%	0.878	0.124	0.225	0.163	0.914	0.307	0.181	0.462	0.207	>= 0.10	0.529	>= 0.10	0.484	Gamma; Lognormal; Normal	Normal
46_1_5_119	MW-36	Part 115	Nickel	mg/L	10	0	0%	0.922	0.378	0.231	0.137	0.963	0.823	0.200	0.305	0.181	>= 0.10	0.286	>= 0.10	0.427	Gamma; Lognormal; Normal	Normal

(Table continues on next page)

Note: p-values above 0.05 suggest a fit to the tested distribution; a distribution passes its GOF test when at least one of the two p-values is above 0.05.

Table 3: Goodness-of-Fit Tests, Non-Detects Excluded *(continued)*

								Normal				Lognormal				Gamma						
								S-W		Lilliefors		S-W		Lilliefors		K-S		A-D				
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Log-SD (NDs excl.)	ProUCL Distributions Fit	Recommended Distribution
46_1_5_123	MW-36	Part 115	Silver	mg/L	10	1	10%	0.709	0.002	0.293	0.025	0.901	0.261	0.199	0.384	0.250	>= 0.10	0.587	>= 0.10	0.807	Gamma; Lognormal	Gamma
46_1_5_128	MW-36	Part 115	Vanadium	mg/L	10	0	0%	0.815	0.022	0.239	0.109	0.877	0.120	0.191	0.379	0.209	>= 0.10	0.640	0.05 <= p < 0.10	0.275	Gamma; Lognormal; Normal	Normal
46_1_5_129	MW-36	Part 115	Zinc	mg/L	10	0	0%	0.904	0.240	0.170	0.571	0.922	0.372	0.133	0.887	0.149	>= 0.10	0.319	>= 0.10	0.683	Gamma; Lognormal; Normal	Normal
47_1_3_105	MW-37	Appendix III	Boron	mg/L	10	0	0%	0.982	0.976	0.136	0.865	0.896	0.196	0.209	0.248	0.195	>= 0.10	0.301	>= 0.10	0.562	Gamma; Lognormal; Normal	Normal
47_1_3_107	MW-37	Appendix III	Calcium	mg/L	10	0	0%	0.912	0.296	0.210	0.239	0.934	0.484	0.214	0.218	0.203	>= 0.10	0.452	>= 0.10	0.167	Gamma; Lognormal; Normal	Normal
47_1_3_108	MW-37	Appendix III	Chloride (as Cl)	mg/L	10	0	0%	0.934	0.484	0.175	0.524	0.922	0.371	0.254	0.067	0.214	>= 0.10	0.292	>= 0.10	0.803	Gamma; Lognormal; Normal	Normal
47_1_3_112	MW-37	Appendix III	Fluoride	mg/L	10	0	0%	0.945	0.604	0.132	0.889	0.941	0.568	0.161	0.651	0.148	>= 0.10	0.302	>= 0.10	0.165	Gamma; Lognormal; Normal	Normal
47_1_3_120	MW-37	Appendix III	pH (field)	su	10	0	0%	0.918	0.337	0.164	0.624	0.919	0.347	0.162	0.641	0.173	>= 0.10	0.442	>= 0.10	0.022	Gamma; Lognormal; Normal	Normal
47_1_3_124	MW-37	Appendix III	Sulfate (as SO4)	mg/L	10	0	0%	0.926	0.409	0.161	0.654	0.888	0.161	0.175	0.524	0.179	>= 0.10	0.479	>= 0.10	0.391	Gamma; Lognormal; Normal	Normal
47_1_3_126	MW-37	Appendix III	Total Dissolved Solids	mg/L	10	0	0%	0.959	0.777	0.173	0.543	0.946	0.622	0.173	0.540	0.190	>= 0.10	0.284	>= 0.10	0.143	Gamma; Lognormal; Normal	Normal
47_1_4_101	MW-37	Appendix IV	Antimony	mg/L	10	1	10%	0.753	0.006	0.252	0.101	0.932	0.501	0.192	0.445	0.204	>= 0.10	0.512	>= 0.10	0.764	Gamma; Lognormal; Normal	Normal
47_1_4_102	MW-37	Appendix IV	Arsenic	mg/L	10	0	0%	0.847	0.054	0.212	0.232	0.925	0.396	0.163	0.639	0.168	>= 0.10	0.372	>= 0.10	0.260	Gamma; Lognormal; Normal	Normal
47_1_4_103	MW-37	Appendix IV	Barium	mg/L	10	0	0%	0.953	0.699	0.172	0.552	0.961	0.792	0.162	0.646	0.174	>= 0.10	0.251	>= 0.10	0.339	Gamma; Lognormal; Normal	Normal
47_1_4_104	MW-37	Appendix IV	Beryllium	mg/L	10	9	90%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
47_1_4_106	MW-37	Appendix IV	Cadmium	mg/L	10	5	50%	0.881	0.314	0.201	0.725	0.863	0.239	0.211	0.655	0.219	>= 0.10	0.412	>= 0.10	0.153	Gamma; Lognormal; Normal	Nonparametric
47_1_4_109	MW-37	Appendix IV	Chromium, Total	mg/L	10	0	0%	0.707	0.001	0.310	0.007	0.865	0.088	0.236	0.117	0.275	0.01 <= p < 0.05	0.836	0.01 <= p < 0.05	0.606	Lognormal	Lognormal
47_1_4_110	MW-37	Appendix IV	Cobalt	mg/L	10	0	0%	0.940	0.555	0.138	0.854	0.958	0.768	0.110	0.980	0.131	>= 0.10	0.212	>= 0.10	0.365	Gamma; Lognormal; Normal	Normal
47_1_4_113	MW-37	Appendix IV	Fluoride (App IV)	mg/L	10	0	0%	0.945	0.604	0.132	0.889	0.941	0.568	0.161	0.651	0.148	>= 0.10	0.302	>= 0.10	0.165	Gamma; Lognormal; Normal	Normal
47_1_4_115	MW-37	Appendix IV	Lead	mg/L	10	2	20%	0.505	0.000	0.423	0.000	0.856	0.109	0.236	0.208	0.296	0.05 <= p < 0.10	1.007	0.01 <= p < 0.05	1.516	Gamma; Lognormal	Gamma
47_1_4_116	MW-37	Appendix IV	Lithium	mg/L	10	0	0%	0.910	0.281	0.144	0.809	0.963	0.815	0.128	0.913	0.136	>= 0.10	0.214	>= 0.10	0.447	Gamma; Lognormal; Normal	Normal
47_1_4_117	MW-37	Appendix IV	Mercury	ng/L	10	4	40%	0.727	0.012	0.315	0.063	0.880	0.271	0.272	0.178	0.306	>= 0.10	0.598	>= 0.10	0.624	Gamma; Lognormal; Normal	Normal
47_1_4_118	MW-37	Appendix IV	Molybdenum	mg/L	10	0	0%	0.916	0.327	0.205	0.276	0.946	0.621	0.150	0.757	0.174	>= 0.10	0.286	>= 0.10	0.356	Gamma; Lognormal; Normal	Normal
47_1_4_121	MW-37	Appendix IV	Radium 226 and 228	pCi/L	10	5	50%	0.896	0.389	0.225	0.552	0.908	0.458	0.202	0.723	0.226	>= 0.10	0.351	>= 0.10	0.246	Gamma; Lognormal; Normal	Nonparametric
47_1_4_122	MW-37	Appendix IV	Selenium	mg/L	10	0	0%	0.704	0.001	0.282	0.024	0.926	0.412	0.225	0.162	0.267	0.05 <= p < 0.10	0.625	>= 0.10	0.958	Gamma; Lognormal	Gamma
47_1_4_125	MW-37	Appendix IV	Thallium	mg/L	10	9	90%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
47_1_5_111	MW-37	Part 115	Copper	mg/L	10	0	0%	0.678	0.000	0.379	0.000	0.895	0.191	0.256	0.063	0.297	0.01 <= p < 0.05	0.684	0.05 <= p < 0.10	0.593	Gamma; Lognormal	Gamma
47_1_5_114	MW-37	Part 115	Iron	mg/L	10	1	10%	0.869	0.119	0.240	0.142	0.849	0.072	0.222	0.228	0.211	>= 0.10	0.565	>= 0.10	2.010	Gamma; Lognormal; Normal	Gamma
47_1_5_119	MW-37	Part 115	Nickel	mg/L	10	0	0%	0.956	0.738	0.151	0.750	0.908	0.264	0.215	0.213	0.187	>= 0.10	0.353	>= 0.10	0.373	Gamma; Lognormal; Normal	Normal
47_1_5_123	MW-37	Part 115	Silver	mg/L	10	9	90%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
47_1_5_128	MW-37	Part 115	Vanadium	mg/L	10	5	50%	0.855	0.210	0.306	0.130	0.882	0.320	0.275	0.244	0.307	>= 0.10	0.472	>= 0.10	0.387	Gamma; Lognormal; Normal	Nonparametric
47_1_5_129	MW-37	Part 115	Zinc	mg/L	10	0	0%	0.892	0.179	0.167	0.592	0.927	0.422	0.162	0.648	0.169	>= 0.10	0.370	>= 0.10	0.369	Gamma; Lognormal; Normal	Normal
48_2_3_105	MW-38	Appendix III	Boron	mg/L	10	0	0%	0.980	0.963	0.136	0.867	0.737	0.002	0.275	0.030	0.242	>= 0.10	0.591	>= 0.10	1.441	Gamma; Normal	Gamma
48_2_3_107	MW-38	Appendix III	Calcium	mg/L	10	0	0%	0.623	0.000	0.380	0.000	0.767	0.006	0.281	0.024	0.326	< 0.01	1.433	< 0.01	0.836	Nonparametric	Nonparametric
48_2_3_108	MW-38	Appendix III	Chloride (as Cl)	mg/L	10	0	0%	0.915	0.320	0.157	0.696	0.883	0.142	0.176	0.516	0.169	>= 0.10	0.425	>= 0.10	0.669	Gamma; Lognormal; Normal	Normal
48_2_3_112	MW-38	Appendix III	Fluoride	mg/L	10	0	0%	0.840	0.044	0.233	0.129	0.940	0.552	0.164	0.625	0.182	>= 0.10	0.359	>= 0.10	0.332	Gamma; Lognormal; Normal	Normal
48_2_3_120	MW-38	Appendix III	pH (field)	su	10	0	0%	0.797	0.013	0.251	0.074	0.837	0.041	0.245	0.091	0.255	0.05 <= p < 0.10	0.843	0.01 <= p < 0.05	0.129	Gamma; Lognormal; Normal	Normal
48_2_3_124	MW-38	Appendix III	Sulfate (as SO4)	mg/L	10	0	0%	0.977	0.945	0.131	0.898	0.827	0.030	0.284	0.022	0.234	>= 0.10	0.507	>= 0.10	0.876	Gamma; Normal	Normal
48_2_3_126	MW-38	Appendix III	Total Dissolved Solids	mg/L	10	0	0%	0.801	0.015	0.201	0.300	0.938	0.528	0.150	0.759	0.164	>= 0.10	0.405	>= 0.10	0.503	Gamma; Lognormal; Normal	Normal
48_2_4_101	MW-38	Appendix IV	Antimony	mg/L	10	2	20%	0.928	0.500	0.162	0.779	0.973	0.917	0.136	0.933	0.149	>= 0.10	0.178	>= 0.10	0.713	Gamma; Lognormal; Normal	Normal

(Table continues on next page)

Note: p-values above 0.05 suggest a fit to the tested distribution; a distribution passes its GOF test when at least one of the two p-values is above 0.05.

Table 3: Goodness-of-Fit Tests, Non-Detects Excluded *(continued)*

								Normal				Lognormal				Gamma						
								S-W		Lilliefors		S-W		Lilliefors		K-S		A-D				
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Log-SD (NDs excl.)	ProUCL Distributions Fit	Recommended Distribution
48_2_4_102	MW-38	Appendix IV	Arsenic	mg/L	10	0	0%	0.956	0.739	0.166	0.603	0.901	0.222	0.188	0.401	0.153	>= 0.10	0.242	>= 0.10	0.795	Gamma; Lognormal; Normal	Normal
48_2_4_103	MW-38	Appendix IV	Barium	mg/L	10	0	0%	0.631	0.000	0.331	0.003	0.929	0.435	0.168	0.586	0.212	>= 0.10	0.658	0.05 <= p < 0.10	0.781	Gamma; Lognormal	Gamma
48_2_4_104	MW-38	Appendix IV	Beryllium	mg/L	10	7	70%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.248		Nonparametric
48_2_4_106	MW-38	Appendix IV	Cadmium	mg/L	10	4	40%	0.880	0.270	0.270	0.187	0.897	0.359	0.227	0.429	0.264	>= 0.10	0.426	>= 0.10	0.722	Gamma; Lognormal; Normal	Nonparametric
48_2_4_109	MW-38	Appendix IV	Chromium, Total	mg/L	10	1	10%	0.905	0.284	0.227	0.199	0.920	0.396	0.204	0.343	0.229	>= 0.10	0.410	>= 0.10	0.630	Gamma; Lognormal; Normal	Normal
48_2_4_110	MW-38	Appendix IV	Cobalt	mg/L	10	0	0%	0.588	0.000	0.393	0.000	0.872	0.105	0.231	0.138	0.292	0.01 <= p < 0.05	0.865	0.01 <= p < 0.05	0.729	Lognormal	Lognormal
48_2_4_113	MW-38	Appendix IV	Fluoride (App IV)	mg/L	10	0	0%	0.840	0.044	0.233	0.129	0.940	0.552	0.164	0.625	0.182	>= 0.10	0.359	>= 0.10	0.332	Gamma; Lognormal; Normal	Normal
48_2_4_115	MW-38	Appendix IV	Lead	mg/L	10	1	10%	0.812	0.028	0.269	0.059	0.946	0.649	0.171	0.624	0.181	>= 0.10	0.381	>= 0.10	1.285	Gamma; Lognormal; Normal	Gamma
48_2_4_116	MW-38	Appendix IV	Lithium	mg/L	10	0	0%	0.938	0.535	0.191	0.377	0.946	0.627	0.167	0.600	0.158	>= 0.10	0.301	>= 0.10	0.428	Gamma; Lognormal; Normal	Normal
48_2_4_117	MW-38	Appendix IV	Mercury	ng/L	10	4	40%	0.916	0.476	0.203	0.614	0.885	0.292	0.223	0.462	0.237	>= 0.10	0.390	>= 0.10	0.500	Gamma; Lognormal; Normal	Normal
48_2_4_118	MW-38	Appendix IV	Molybdenum	mg/L	10	0	0%	0.909	0.273	0.174	0.526	0.846	0.052	0.195	0.346	0.156	>= 0.10	0.360	>= 0.10	0.962	Gamma; Lognormal; Normal	Normal
48_2_4_121	MW-38	Appendix IV	Radium 226 and 228	pCi/L	9	5	56%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.362		Nonparametric
48_2_4_122	MW-38	Appendix IV	Selenium	mg/L	10	0	0%	0.937	0.517	0.220	0.187	0.889	0.167	0.192	0.367	0.147	>= 0.10	0.290	>= 0.10	0.764	Gamma; Lognormal; Normal	Normal
48_2_4_125	MW-38	Appendix IV	Thallium	mg/L	10	10	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
48_2_5_111	MW-38	Part 115	Copper	mg/L	10	1	10%	0.867	0.113	0.268	0.061	0.925	0.435	0.211	0.296	0.206	>= 0.10	0.409	>= 0.10	1.172	Gamma; Lognormal; Normal	Gamma
48_2_5_114	MW-38	Part 115	Iron	mg/L	10	0	0%	0.760	0.005	0.228	0.148	0.980	0.963	0.138	0.848	0.120	>= 0.10	0.183	>= 0.10	1.335	Gamma; Lognormal; Normal	Gamma
48_2_5_119	MW-38	Part 115	Nickel	mg/L	10	0	0%	0.746	0.003	0.299	0.012	0.931	0.459	0.195	0.343	0.193	>= 0.10	0.357	>= 0.10	0.949	Gamma; Lognormal	Gamma
48_2_5_123	MW-38	Part 115	Silver	mg/L	10	6	60%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.509		Nonparametric
48_2_5_128	MW-38	Part 115	Vanadium	mg/L	10	2	20%	0.909	0.344	0.176	0.656	0.915	0.393	0.183	0.597	0.198	>= 0.10	0.346	>= 0.10	0.440	Gamma; Lognormal; Normal	Normal
48_2_5_129	MW-38	Part 115	Zinc	mg/L	10	1	10%	0.899	0.244	0.172	0.623	0.919	0.384	0.230	0.186	0.184	>= 0.10	0.309	>= 0.10	0.863	Gamma; Lognormal; Normal	Normal

Note: p-values above 0.05 suggest a fit to the tested distribution; a distribution passes its GOF test when at least one of the two p-values is above 0.05.

Table 4: Autocorrelation Tests, Non-Detects Excluded

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Autocorrelation	Box-Ljung p-value	Sig.
11_2_3_105	MW-01R	Appendix III	Boron	mg/L	20	0	0%	0.170	0.413	
11_2_3_107	MW-01R	Appendix III	Calcium	mg/L	20	0	0%	0.103	0.620	
11_2_3_108	MW-01R	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	0.176	0.396	
11_2_3_112	MW-01R	Appendix III	Fluoride	mg/L	20	0	0%	0.307	0.139	
11_2_3_120	MW-01R	Appendix III	pH (field)	su	20	0	0%	-0.082	0.691	
11_2_3_124	MW-01R	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	0.165	0.427	
11_2_3_126	MW-01R	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	0.069	0.740	
11_2_4_101	MW-01R	Appendix IV	Antimony	mg/L	20	3	15%	0.200	0.370	
11_2_4_102	MW-01R	Appendix IV	Arsenic	mg/L	20	0	0%	-0.081	0.695	
11_2_4_103	MW-01R	Appendix IV	Barium	mg/L	20	0	0%	0.443	0.033	*
11_2_4_104	MW-01R	Appendix IV	Beryllium	mg/L	20	2	10%	0.126	0.563	
11_2_4_106	MW-01R	Appendix IV	Cadmium	mg/L	20	13	65%	0.049	0.874	
11_2_4_109	MW-01R	Appendix IV	Chromium, Total	mg/L	20	0	0%	-0.100	0.631	
11_2_4_110	MW-01R	Appendix IV	Cobalt	mg/L	20	0	0%	0.189	0.364	
11_2_4_113	MW-01R	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	0.307	0.139	
11_2_4_115	MW-01R	Appendix IV	Lead	mg/L	20	2	10%	0.335	0.123	
11_2_4_116	MW-01R	Appendix IV	Lithium	mg/L	20	0	0%	0.156	0.452	
11_2_4_117	MW-01R	Appendix IV	Mercury	ng/L	20	16	80%	0.221	0.532	
11_2_4_118	MW-01R	Appendix IV	Molybdenum	mg/L	20	2	10%	-0.015	0.946	
11_2_4_121	MW-01R	Appendix IV	Radium 226 and 228	pCi/L	20	13	65%	-0.742	0.016	*
11_2_4_122	MW-01R	Appendix IV	Selenium	mg/L	20	0	0%	-0.011	0.958	
11_2_5_111	MW-01R	Part 115	Copper	mg/L	20	6	30%	0.134	0.578	
11_2_5_114	MW-01R	Part 115	Iron	mg/L	20	0	0%	0.385	0.064	
11_2_5_119	MW-01R	Part 115	Nickel	mg/L	20	0	0%	0.122	0.557	
11_2_5_128	MW-01R	Part 115	Vanadium	mg/L	20	2	10%	0.198	0.363	
11_2_5_129	MW-01R	Part 115	Zinc	mg/L	20	3	15%	0.193	0.385	
12_2_3_105	MW-02	Appendix III	Boron	mg/L	20	0	0%	-0.039	0.852	
12_2_3_107	MW-02	Appendix III	Calcium	mg/L	20	0	0%	-0.085	0.682	
12_2_3_108	MW-02	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	0.068	0.745	
12_2_3_112	MW-02	Appendix III	Fluoride	mg/L	20	0	0%	0.374	0.072	
12_2_3_120	MW-02	Appendix III	pH (field)	su	20	0	0%	0.082	0.693	
12_2_3_124	MW-02	Appendix III	Sulfate (as SO4)	mg/L	20	10	50%	-0.050	0.856	
12_2_3_126	MW-02	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	0.184	0.376	
12_2_4_101	MW-02	Appendix IV	Antimony	mg/L	20	3	15%	-0.080	0.719	
12_2_4_102	MW-02	Appendix IV	Arsenic	mg/L	20	0	0%	0.146	0.483	
12_2_4_103	MW-02	Appendix IV	Barium	mg/L	20	0	0%	0.185	0.373	
12_2_4_104	MW-02	Appendix IV	Beryllium	mg/L	20	2	10%	0.225	0.301	
12_2_4_106	MW-02	Appendix IV	Cadmium	mg/L	20	14	70%	-0.265	0.412	
12_2_4_109	MW-02	Appendix IV	Chromium, Total	mg/L	20	0	0%	0.075	0.717	
12_2_4_110	MW-02	Appendix IV	Cobalt	mg/L	20	0	0%	0.092	0.657	
12_2_4_113	MW-02	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	0.374	0.072	
12_2_4_115	MW-02	Appendix IV	Lead	mg/L	20	1	5%	-0.036	0.866	

(Table continues on next page)

*** p < 0.001, ** p < 0.01, * p < 0.05

Table 4: Autocorrelation Tests, Non-Detects Excluded *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Autocorrelation	Box-Ljung p-value	Sig.
12_2_4_116	MW-02	Appendix IV	Lithium	mg/L	20	0	0%	0.013	0.949	
12_2_4_117	MW-02	Appendix IV	Mercury	ng/L	20	14	70%	-0.013	0.967	
12_2_4_118	MW-02	Appendix IV	Molybdenum	mg/L	20	0	0%	0.097	0.641	
12_2_4_121	MW-02	Appendix IV	Radium 226 and 228	pCi/L	19	6	32%	0.085	0.731	
12_2_4_122	MW-02	Appendix IV	Selenium	mg/L	20	0	0%	0.132	0.524	
12_2_4_125	MW-02	Appendix IV	Thallium	mg/L	20	19	95%	NA	NA	
12_2_5_111	MW-02	Part 115	Copper	mg/L	20	0	0%	-0.080	0.701	
12_2_5_114	MW-02	Part 115	Iron	mg/L	20	0	0%	0.134	0.518	
12_2_5_119	MW-02	Part 115	Nickel	mg/L	20	0	0%	0.162	0.434	
12_2_5_128	MW-02	Part 115	Vanadium	mg/L	20	1	5%	0.161	0.449	
12_2_5_129	MW-02	Part 115	Zinc	mg/L	20	0	0%	0.197	0.343	
13_2_3_105	MW-03	Appendix III	Boron	mg/L	20	0	0%	-0.035	0.866	
13_2_3_107	MW-03	Appendix III	Calcium	mg/L	20	0	0%	0.259	0.213	
13_2_3_108	MW-03	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	0.543	0.009	**
13_2_3_112	MW-03	Appendix III	Fluoride	mg/L	20	0	0%	0.055	0.791	
13_2_3_120	MW-03	Appendix III	pH (field)	su	20	0	0%	-0.185	0.372	
13_2_3_124	MW-03	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	0.636	0.002	**
13_2_3_126	MW-03	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	0.708	0.001	***
13_2_4_101	MW-03	Appendix IV	Antimony	mg/L	20	14	70%	-0.085	0.792	
13_2_4_102	MW-03	Appendix IV	Arsenic	mg/L	20	0	0%	0.183	0.378	
13_2_4_103	MW-03	Appendix IV	Barium	mg/L	20	0	0%	-0.357	0.086	
13_2_4_104	MW-03	Appendix IV	Beryllium	mg/L	20	13	65%	-0.602	0.051	
13_2_4_106	MW-03	Appendix IV	Cadmium	mg/L	20	19	95%	NA	NA	
13_2_4_109	MW-03	Appendix IV	Chromium, Total	mg/L	20	0	0%	0.122	0.557	
13_2_4_110	MW-03	Appendix IV	Cobalt	mg/L	20	0	0%	-0.158	0.446	
13_2_4_113	MW-03	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	0.055	0.791	
13_2_4_115	MW-03	Appendix IV	Lead	mg/L	20	19	95%	NA	NA	
13_2_4_116	MW-03	Appendix IV	Lithium	mg/L	20	0	0%	0.442	0.033	*
13_2_4_117	MW-03	Appendix IV	Mercury	ng/L	20	15	75%	-0.049	0.885	
13_2_4_118	MW-03	Appendix IV	Molybdenum	mg/L	20	14	70%	-0.207	0.522	
13_2_4_121	MW-03	Appendix IV	Radium 226 and 228	pCi/L	19	3	16%	-0.120	0.598	
13_2_4_122	MW-03	Appendix IV	Selenium	mg/L	20	3	15%	0.292	0.190	
13_2_4_125	MW-03	Appendix IV	Thallium	mg/L	20	19	95%	NA	NA	
13_2_5_111	MW-03	Part 115	Copper	mg/L	20	9	45%	-0.579	0.029	*
13_2_5_114	MW-03	Part 115	Iron	mg/L	20	0	0%	0.603	0.004	**
13_2_5_119	MW-03	Part 115	Nickel	mg/L	20	1	5%	-0.010	0.963	
13_2_5_128	MW-03	Part 115	Vanadium	mg/L	20	9	45%	-0.011	0.967	
13_2_5_129	MW-03	Part 115	Zinc	mg/L	20	9	45%	0.272	0.303	
14_2_3_105	MW-04	Appendix III	Boron	mg/L	20	0	0%	0.694	0.001	***
14_2_3_107	MW-04	Appendix III	Calcium	mg/L	20	0	0%	-0.094	0.650	
14_2_3_108	MW-04	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	0.783	0.000	***
14_2_3_112	MW-04	Appendix III	Fluoride	mg/L	20	0	0%	0.099	0.632	

(Table continues on next page)

*** p < 0.001, ** p < 0.01, * p < 0.05

Table 4: Autocorrelation Tests, Non-Detects Excluded *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Autocorrelation	Box-Ljung p-value	Sig.
14_2_3_120	MW-04	Appendix III	pH (field)	su	20	0	0%	0.286	0.168	
14_2_3_124	MW-04	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	0.229	0.271	
14_2_3_126	MW-04	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	0.094	0.649	
14_2_4_101	MW-04	Appendix IV	Antimony	mg/L	20	14	70%	-0.163	0.614	
14_2_4_102	MW-04	Appendix IV	Arsenic	mg/L	20	0	0%	-0.006	0.976	
14_2_4_103	MW-04	Appendix IV	Barium	mg/L	20	0	0%	-0.066	0.751	
14_2_4_104	MW-04	Appendix IV	Beryllium	mg/L	20	17	85%	-0.362	0.321	
14_2_4_109	MW-04	Appendix IV	Chromium, Total	mg/L	20	0	0%	0.362	0.081	
14_2_4_110	MW-04	Appendix IV	Cobalt	mg/L	20	0	0%	0.339	0.102	
14_2_4_113	MW-04	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	0.099	0.632	
14_2_4_115	MW-04	Appendix IV	Lead	mg/L	20	16	80%	-0.703	0.047	*
14_2_4_116	MW-04	Appendix IV	Lithium	mg/L	20	0	0%	0.227	0.275	
14_2_4_117	MW-04	Appendix IV	Mercury	ng/L	20	16	80%	-0.240	0.497	
14_2_4_118	MW-04	Appendix IV	Molybdenum	mg/L	20	2	10%	0.291	0.180	
14_2_4_121	MW-04	Appendix IV	Radium 226 and 228	pCi/L	20	7	35%	0.417	0.093	
14_2_4_122	MW-04	Appendix IV	Selenium	mg/L	20	5	25%	-0.182	0.438	
14_2_5_111	MW-04	Part 115	Copper	mg/L	20	14	70%	0.265	0.412	
14_2_5_114	MW-04	Part 115	Iron	mg/L	20	0	0%	0.455	0.028	*
14_2_5_119	MW-04	Part 115	Nickel	mg/L	20	0	0%	0.223	0.283	
14_2_5_128	MW-04	Part 115	Vanadium	mg/L	20	10	50%	0.442	0.106	
14_2_5_129	MW-04	Part 115	Zinc	mg/L	20	10	50%	0.588	0.032	*
16_1_3_105	MW-06	Appendix III	Boron	mg/L	20	0	0%	0.149	0.472	
16_1_3_107	MW-06	Appendix III	Calcium	mg/L	20	0	0%	0.520	0.012	*
16_1_3_108	MW-06	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	0.561	0.007	**
16_1_3_112	MW-06	Appendix III	Fluoride	mg/L	20	0	0%	0.206	0.320	
16_1_3_120	MW-06	Appendix III	pH (field)	su	20	0	0%	0.171	0.410	
16_1_3_124	MW-06	Appendix III	Sulfate (as SO4)	mg/L	20	2	10%	0.408	0.061	
16_1_3_126	MW-06	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	0.041	0.844	
16_1_4_101	MW-06	Appendix IV	Antimony	mg/L	20	17	85%	-0.368	0.313	
16_1_4_102	MW-06	Appendix IV	Arsenic	mg/L	20	0	0%	-0.111	0.593	
16_1_4_103	MW-06	Appendix IV	Barium	mg/L	20	0	0%	0.121	0.562	
16_1_4_104	MW-06	Appendix IV	Beryllium	mg/L	20	17	85%	-0.156	0.669	
16_1_4_109	MW-06	Appendix IV	Chromium, Total	mg/L	20	0	0%	0.417	0.045	*
16_1_4_110	MW-06	Appendix IV	Cobalt	mg/L	20	0	0%	-0.141	0.498	
16_1_4_113	MW-06	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	0.206	0.320	
16_1_4_115	MW-06	Appendix IV	Lead	mg/L	20	10	50%	-0.116	0.671	
16_1_4_116	MW-06	Appendix IV	Lithium	mg/L	20	0	0%	0.418	0.044	*
16_1_4_117	MW-06	Appendix IV	Mercury	ng/L	20	15	75%	-0.764	0.024	*
16_1_4_118	MW-06	Appendix IV	Molybdenum	mg/L	20	10	50%	-0.114	0.676	
16_1_4_121	MW-06	Appendix IV	Radium 226 and 228	pCi/L	20	4	20%	-0.287	0.209	
16_1_4_122	MW-06	Appendix IV	Selenium	mg/L	20	5	25%	-0.234	0.318	
16_1_4_125	MW-06	Appendix IV	Thallium	mg/L	20	19	95%	NA	NA	

(Table continues on next page)

*** p < 0.001, ** p < 0.01, * p < 0.05

Table 4: Autocorrelation Tests, Non-Detects Excluded *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Autocorrelation	Box-Ljung p-value	Sig.
16_1_5_111	MW-06	Part 115	Copper	mg/L	20	13	65%	-0.144	0.641	
16_1_5_114	MW-06	Part 115	Iron	mg/L	20	0	0%	0.548	0.008	**
16_1_5_119	MW-06	Part 115	Nickel	mg/L	20	6	30%	-0.259	0.283	
16_1_5_123	MW-06	Part 115	Silver	mg/L	20	19	95%	NA	NA	
16_1_5_128	MW-06	Part 115	Vanadium	mg/L	20	14	70%	-0.304	0.347	
16_1_5_129	MW-06	Part 115	Zinc	mg/L	20	2	10%	-0.037	0.863	
17_1_3_105	MW-07	Appendix III	Boron	mg/L	20	0	0%	0.171	0.411	
17_1_3_107	MW-07	Appendix III	Calcium	mg/L	20	0	0%	-0.056	0.787	
17_1_3_108	MW-07	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	0.782	0.000	***
17_1_3_112	MW-07	Appendix III	Fluoride	mg/L	20	4	20%	0.202	0.375	
17_1_3_120	MW-07	Appendix III	pH (field)	su	20	0	0%	0.113	0.587	
17_1_3_124	MW-07	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	0.135	0.515	
17_1_3_126	MW-07	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	0.329	0.113	
17_1_4_101	MW-07	Appendix IV	Antimony	mg/L	20	19	95%	NA	NA	
17_1_4_102	MW-07	Appendix IV	Arsenic	mg/L	20	0	0%	0.261	0.210	
17_1_4_103	MW-07	Appendix IV	Barium	mg/L	20	0	0%	0.527	0.011	*
17_1_4_104	MW-07	Appendix IV	Beryllium	mg/L	20	15	75%	-0.126	0.709	
17_1_4_109	MW-07	Appendix IV	Chromium, Total	mg/L	20	0	0%	0.033	0.872	
17_1_4_110	MW-07	Appendix IV	Cobalt	mg/L	20	0	0%	0.334	0.108	
17_1_4_113	MW-07	Appendix IV	Fluoride (App IV)	mg/L	20	4	20%	0.202	0.375	
17_1_4_116	MW-07	Appendix IV	Lithium	mg/L	20	0	0%	-0.070	0.736	
17_1_4_117	MW-07	Appendix IV	Mercury	ng/L	20	19	95%	NA	NA	
17_1_4_121	MW-07	Appendix IV	Radium 226 and 228	pCi/L	20	2	10%	-0.238	0.272	
17_1_4_122	MW-07	Appendix IV	Selenium	mg/L	20	9	45%	-0.331	0.211	
17_1_5_111	MW-07	Part 115	Copper	mg/L	20	15	75%	-0.354	0.295	
17_1_5_114	MW-07	Part 115	Iron	mg/L	20	0	0%	0.486	0.019	*
17_1_5_119	MW-07	Part 115	Nickel	mg/L	20	14	70%	-0.127	0.693	
17_1_5_128	MW-07	Part 115	Vanadium	mg/L	20	12	60%	0.075	0.799	
17_1_5_129	MW-07	Part 115	Zinc	mg/L	20	10	50%	-0.386	0.159	
18_1_3_105	MW-08	Appendix III	Boron	mg/L	20	0	0%	0.159	0.444	
18_1_3_107	MW-08	Appendix III	Calcium	mg/L	20	0	0%	0.310	0.135	
18_1_3_108	MW-08	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	0.038	0.856	
18_1_3_112	MW-08	Appendix III	Fluoride	mg/L	20	0	0%	0.338	0.104	
18_1_3_120	MW-08	Appendix III	pH (field)	su	20	0	0%	0.050	0.810	
18_1_3_124	MW-08	Appendix III	Sulfate (as SO4)	mg/L	20	5	25%	0.342	0.144	
18_1_3_126	MW-08	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	-0.049	0.815	
18_1_4_101	MW-08	Appendix IV	Antimony	mg/L	20	12	60%	-0.048	0.871	
18_1_4_102	MW-08	Appendix IV	Arsenic	mg/L	20	0	0%	0.508	0.015	*
18_1_4_103	MW-08	Appendix IV	Barium	mg/L	20	0	0%	-0.044	0.831	
18_1_4_104	MW-08	Appendix IV	Beryllium	mg/L	20	19	95%	NA	NA	
18_1_4_106	MW-08	Appendix IV	Cadmium	mg/L	20	19	95%	NA	NA	
18_1_4_109	MW-08	Appendix IV	Chromium, Total	mg/L	20	0	0%	0.660	0.001	**

(Table continues on next page)

*** p < 0.001, ** p < 0.01, * p < 0.05

Table 4: Autocorrelation Tests, Non-Detects Excluded *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Autocorrelation	Box-Ljung p-value	Sig.
18_1_4_110	MW-08	Appendix IV	Cobalt	mg/L	20	0	0%	-0.058	0.780	
18_1_4_113	MW-08	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	0.338	0.104	
18_1_4_115	MW-08	Appendix IV	Lead	mg/L	20	12	60%	-0.279	0.345	
18_1_4_116	MW-08	Appendix IV	Lithium	mg/L	20	0	0%	0.542	0.009	**
18_1_4_117	MW-08	Appendix IV	Mercury	ng/L	20	18	90%	-0.500	0.157	
18_1_4_118	MW-08	Appendix IV	Molybdenum	mg/L	20	2	10%	0.120	0.580	
18_1_4_121	MW-08	Appendix IV	Radium 226 and 228	pCi/L	20	5	25%	0.183	0.434	
18_1_4_122	MW-08	Appendix IV	Selenium	mg/L	20	7	35%	-0.039	0.875	
18_1_4_125	MW-08	Appendix IV	Thallium	mg/L	20	19	95%	NA	NA	
18_1_5_111	MW-08	Part 115	Copper	mg/L	20	6	30%	0.289	0.230	
18_1_5_114	MW-08	Part 115	Iron	mg/L	20	0	0%	0.637	0.002	**
18_1_5_119	MW-08	Part 115	Nickel	mg/L	20	0	0%	0.198	0.341	
18_1_5_128	MW-08	Part 115	Vanadium	mg/L	20	17	85%	-0.175	0.632	
18_1_5_129	MW-08	Part 115	Zinc	mg/L	20	3	15%	-0.268	0.228	
19_2_3_105	MW-09	Appendix III	Boron	mg/L	20	0	0%	0.450	0.030	*
19_2_3_107	MW-09	Appendix III	Calcium	mg/L	20	0	0%	0.560	0.007	**
19_2_3_108	MW-09	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	0.701	0.001	***
19_2_3_112	MW-09	Appendix III	Fluoride	mg/L	20	0	0%	0.312	0.133	
19_2_3_120	MW-09	Appendix III	pH (field)	su	20	0	0%	0.496	0.017	*
19_2_3_124	MW-09	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	0.625	0.003	**
19_2_3_126	MW-09	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	0.665	0.001	**
19_2_4_101	MW-09	Appendix IV	Antimony	mg/L	20	12	60%	-0.568	0.055	
19_2_4_102	MW-09	Appendix IV	Arsenic	mg/L	20	0	0%	-0.296	0.155	
19_2_4_103	MW-09	Appendix IV	Barium	mg/L	20	0	0%	0.216	0.298	
19_2_4_104	MW-09	Appendix IV	Beryllium	mg/L	20	15	75%	-0.160	0.635	
19_2_4_106	MW-09	Appendix IV	Cadmium	mg/L	20	19	95%	NA	NA	
19_2_4_109	MW-09	Appendix IV	Chromium, Total	mg/L	20	0	0%	0.166	0.423	
19_2_4_110	MW-09	Appendix IV	Cobalt	mg/L	20	0	0%	-0.063	0.761	
19_2_4_113	MW-09	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	0.312	0.133	
19_2_4_115	MW-09	Appendix IV	Lead	mg/L	20	17	85%	-0.048	0.896	
19_2_4_116	MW-09	Appendix IV	Lithium	mg/L	20	0	0%	0.495	0.017	*
19_2_4_117	MW-09	Appendix IV	Mercury	ng/L	20	14	70%	0.427	0.186	
19_2_4_118	MW-09	Appendix IV	Molybdenum	mg/L	20	0	0%	0.312	0.134	
19_2_4_121	MW-09	Appendix IV	Radium 226 and 228	pCi/L	20	18	90%	-0.500	0.157	
19_2_4_122	MW-09	Appendix IV	Selenium	mg/L	20	2	10%	0.156	0.473	
19_2_5_111	MW-09	Part 115	Copper	mg/L	20	11	55%	0.125	0.659	
19_2_5_114	MW-09	Part 115	Iron	mg/L	20	0	0%	0.154	0.458	
19_2_5_119	MW-09	Part 115	Nickel	mg/L	20	0	0%	-0.043	0.837	
19_2_5_128	MW-09	Part 115	Vanadium	mg/L	20	15	75%	-0.310	0.359	
19_2_5_129	MW-09	Part 115	Zinc	mg/L	20	8	40%	-0.118	0.646	
20_3_3_105	MW-10	Appendix III	Boron	mg/L	20	0	0%	0.615	0.003	**
20_3_3_107	MW-10	Appendix III	Calcium	mg/L	20	0	0%	0.475	0.022	*

(Table continues on next page)

*** p < 0.001, ** p < 0.01, * p < 0.05

Table 4: Autocorrelation Tests, Non-Detects Excluded *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Autocorrelation	Box-Ljung p-value	Sig.
20_3_3_108	MW-10	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	0.536	0.010	**
20_3_3_112	MW-10	Appendix III	Fluoride	mg/L	20	0	0%	0.552	0.008	**
20_3_3_120	MW-10	Appendix III	pH (field)	su	20	0	0%	0.078	0.707	
20_3_3_124	MW-10	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	0.473	0.023	*
20_3_3_126	MW-10	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	0.390	0.061	
20_3_4_101	MW-10	Appendix IV	Antimony	mg/L	20	15	75%	-0.252	0.455	
20_3_4_102	MW-10	Appendix IV	Arsenic	mg/L	20	0	0%	0.315	0.130	
20_3_4_103	MW-10	Appendix IV	Barium	mg/L	20	0	0%	0.554	0.008	**
20_3_4_104	MW-10	Appendix IV	Beryllium	mg/L	20	10	50%	-0.236	0.388	
20_3_4_109	MW-10	Appendix IV	Chromium, Total	mg/L	20	0	0%	0.490	0.018	*
20_3_4_110	MW-10	Appendix IV	Cobalt	mg/L	20	1	5%	0.086	0.687	
20_3_4_113	MW-10	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	0.552	0.008	**
20_3_4_115	MW-10	Appendix IV	Lead	mg/L	20	17	85%	-0.030	0.935	
20_3_4_116	MW-10	Appendix IV	Lithium	mg/L	20	0	0%	-0.123	0.553	
20_3_4_117	MW-10	Appendix IV	Mercury	ng/L	20	17	85%	-0.167	0.648	
20_3_4_118	MW-10	Appendix IV	Molybdenum	mg/L	20	0	0%	0.254	0.221	
20_3_4_121	MW-10	Appendix IV	Radium 226 and 228	pCi/L	20	15	75%	0.270	0.425	
20_3_4_122	MW-10	Appendix IV	Selenium	mg/L	20	1	5%	0.030	0.888	
20_3_5_111	MW-10	Part 115	Copper	mg/L	20	16	80%	-0.797	0.024	*
20_3_5_114	MW-10	Part 115	Iron	mg/L	20	0	0%	0.393	0.059	
20_3_5_119	MW-10	Part 115	Nickel	mg/L	20	7	35%	-0.229	0.356	
20_3_5_128	MW-10	Part 115	Vanadium	mg/L	20	12	60%	-0.132	0.655	
20_3_5_129	MW-10	Part 115	Zinc	mg/L	20	7	35%	0.222	0.371	
21_2_3_105	MW-11	Appendix III	Boron	mg/L	20	0	0%	0.505	0.015	*
21_2_3_107	MW-11	Appendix III	Calcium	mg/L	20	0	0%	0.284	0.172	
21_2_3_108	MW-11	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	0.035	0.865	
21_2_3_112	MW-11	Appendix III	Fluoride	mg/L	20	0	0%	0.457	0.028	*
21_2_3_120	MW-11	Appendix III	pH (field)	su	20	0	0%	0.119	0.566	
21_2_3_124	MW-11	Appendix III	Sulfate (as SO4)	mg/L	20	7	35%	0.609	0.014	*
21_2_3_126	MW-11	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	-0.067	0.747	
21_2_4_101	MW-11	Appendix IV	Antimony	mg/L	20	15	75%	-0.520	0.124	
21_2_4_102	MW-11	Appendix IV	Arsenic	mg/L	20	0	0%	0.391	0.060	
21_2_4_103	MW-11	Appendix IV	Barium	mg/L	20	0	0%	0.362	0.082	
21_2_4_104	MW-11	Appendix IV	Beryllium	mg/L	20	14	70%	-0.208	0.519	
21_2_4_106	MW-11	Appendix IV	Cadmium	mg/L	20	17	85%	-0.381	0.297	
21_2_4_109	MW-11	Appendix IV	Chromium, Total	mg/L	20	0	0%	-0.078	0.707	
21_2_4_110	MW-11	Appendix IV	Cobalt	mg/L	20	0	0%	-0.172	0.408	
21_2_4_113	MW-11	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	0.457	0.028	*
21_2_4_115	MW-11	Appendix IV	Lead	mg/L	20	3	15%	-0.072	0.745	
21_2_4_116	MW-11	Appendix IV	Lithium	mg/L	20	0	0%	0.367	0.078	
21_2_4_117	MW-11	Appendix IV	Mercury	ng/L	20	13	65%	-0.027	0.931	
21_2_4_118	MW-11	Appendix IV	Molybdenum	mg/L	20	2	10%	0.142	0.513	

(Table continues on next page)

*** p < 0.001, ** p < 0.01, * p < 0.05

Table 4: Autocorrelation Tests, Non-Detects Excluded *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Autocorrelation	Box-Ljung p-value	Sig.
21_2_4_121	MW-11	Appendix IV	Radium 226 and 228	pCi/L	19	7	37%	0.001	0.998	
21_2_4_122	MW-11	Appendix IV	Selenium	mg/L	20	3	15%	0.219	0.326	
21_2_4_125	MW-11	Appendix IV	Thallium	mg/L	20	19	95%	NA	NA	
21_2_5_111	MW-11	Part 115	Copper	mg/L	20	4	20%	-0.164	0.473	
21_2_5_114	MW-11	Part 115	Iron	mg/L	20	0	0%	0.394	0.058	
21_2_5_119	MW-11	Part 115	Nickel	mg/L	20	0	0%	-0.040	0.846	
21_2_5_123	MW-11	Part 115	Silver	mg/L	20	17	85%	-0.595	0.103	
21_2_5_128	MW-11	Part 115	Vanadium	mg/L	20	13	65%	-0.199	0.520	
21_2_5_129	MW-11	Part 115	Zinc	mg/L	20	4	20%	0.270	0.237	
22_2_3_105	MW-12	Appendix III	Boron	mg/L	20	0	0%	0.217	0.297	
22_2_3_107	MW-12	Appendix III	Calcium	mg/L	20	0	0%	0.093	0.656	
22_2_3_108	MW-12	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	0.082	0.695	
22_2_3_112	MW-12	Appendix III	Fluoride	mg/L	20	0	0%	0.103	0.619	
22_2_3_120	MW-12	Appendix III	pH (field)	su	20	0	0%	0.093	0.653	
22_2_3_124	MW-12	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	0.614	0.003	**
22_2_3_126	MW-12	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	0.118	0.569	
22_2_4_101	MW-12	Appendix IV	Antimony	mg/L	20	0	0%	0.102	0.622	
22_2_4_102	MW-12	Appendix IV	Arsenic	mg/L	20	0	0%	0.131	0.529	
22_2_4_103	MW-12	Appendix IV	Barium	mg/L	20	0	0%	0.378	0.069	
22_2_4_104	MW-12	Appendix IV	Beryllium	mg/L	20	19	95%	NA	NA	
22_2_4_106	MW-12	Appendix IV	Cadmium	mg/L	20	0	0%	0.288	0.165	
22_2_4_109	MW-12	Appendix IV	Chromium, Total	mg/L	20	6	30%	-0.024	0.921	
22_2_4_110	MW-12	Appendix IV	Cobalt	mg/L	20	5	25%	0.144	0.538	
22_2_4_113	MW-12	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	0.103	0.619	
22_2_4_115	MW-12	Appendix IV	Lead	mg/L	20	6	30%	-0.033	0.892	
22_2_4_116	MW-12	Appendix IV	Lithium	mg/L	20	1	5%	0.158	0.458	
22_2_4_117	MW-12	Appendix IV	Mercury	ng/L	20	12	60%	0.385	0.193	
22_2_4_118	MW-12	Appendix IV	Molybdenum	mg/L	20	0	0%	0.096	0.644	
22_2_4_121	MW-12	Appendix IV	Radium 226 and 228	pCi/L	20	12	60%	0.084	0.776	
22_2_4_122	MW-12	Appendix IV	Selenium	mg/L	20	0	0%	-0.050	0.810	
22_2_5_111	MW-12	Part 115	Copper	mg/L	20	0	0%	0.340	0.102	
22_2_5_114	MW-12	Part 115	Iron	mg/L	20	6	30%	0.288	0.232	
22_2_5_119	MW-12	Part 115	Nickel	mg/L	20	0	0%	0.369	0.076	
22_2_5_128	MW-12	Part 115	Vanadium	mg/L	20	6	30%	0.075	0.755	
22_2_5_129	MW-12	Part 115	Zinc	mg/L	20	0	0%	0.561	0.007	**
26_1_3_105	MW-16	Appendix III	Boron	mg/L	10	0	0%	-0.033	0.903	
26_1_3_107	MW-16	Appendix III	Calcium	mg/L	10	0	0%	0.011	0.968	
26_1_3_108	MW-16	Appendix III	Chloride (as Cl)	mg/L	10	0	0%	0.003	0.992	
26_1_3_112	MW-16	Appendix III	Fluoride	mg/L	10	1	10%	-0.423	0.137	
26_1_3_120	MW-16	Appendix III	pH (field)	su	10	0	0%	-0.157	0.567	
26_1_3_124	MW-16	Appendix III	Sulfate (as SO4)	mg/L	10	2	20%	-0.111	0.708	
26_1_3_126	MW-16	Appendix III	Total Dissolved Solids	mg/L	10	0	0%	0.044	0.873	

(Table continues on next page)

*** p < 0.001, ** p < 0.01, * p < 0.05

Table 4: Autocorrelation Tests, Non-Detects Excluded *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Autocorrelation	Box-Ljung p-value	Sig.
26_1_4_101	MW-16	Appendix IV	Antimony	mg/L	10	9	90%	NA	NA	
26_1_4_102	MW-16	Appendix IV	Arsenic	mg/L	10	0	0%	-0.225	0.411	
26_1_4_103	MW-16	Appendix IV	Barium	mg/L	10	0	0%	0.333	0.224	
26_1_4_104	MW-16	Appendix IV	Beryllium	mg/L	10	9	90%	NA	NA	
26_1_4_109	MW-16	Appendix IV	Chromium, Total	mg/L	10	0	0%	-0.050	0.855	
26_1_4_110	MW-16	Appendix IV	Cobalt	mg/L	10	0	0%	-0.167	0.541	
26_1_4_113	MW-16	Appendix IV	Fluoride (App IV)	mg/L	10	1	10%	-0.423	0.137	
26_1_4_115	MW-16	Appendix IV	Lead	mg/L	10	6	60%	-0.289	0.414	
26_1_4_116	MW-16	Appendix IV	Lithium	mg/L	10	0	0%	-0.117	0.671	
26_1_4_117	MW-16	Appendix IV	Mercury	ng/L	10	8	80%	-0.500	0.157	
26_1_4_118	MW-16	Appendix IV	Molybdenum	mg/L	10	9	90%	NA	NA	
26_1_4_121	MW-16	Appendix IV	Radium 226 and 228	pCi/L	10	4	40%	-0.233	0.471	
26_1_4_122	MW-16	Appendix IV	Selenium	mg/L	10	1	10%	0.054	0.849	
26_1_5_111	MW-16	Part 115	Copper	mg/L	10	5	50%	-0.369	0.275	
26_1_5_114	MW-16	Part 115	Iron	mg/L	10	0	0%	-0.375	0.171	
26_1_5_119	MW-16	Part 115	Nickel	mg/L	10	1	10%	0.054	0.850	
26_1_5_128	MW-16	Part 115	Vanadium	mg/L	10	3	30%	-0.077	0.803	
26_1_5_129	MW-16	Part 115	Zinc	mg/L	10	2	20%	-0.102	0.731	
27_1_3_105	MW-17	Appendix III	Boron	mg/L	10	0	0%	-0.010	0.971	
27_1_3_107	MW-17	Appendix III	Calcium	mg/L	10	0	0%	0.091	0.741	
27_1_3_108	MW-17	Appendix III	Chloride (as Cl)	mg/L	10	0	0%	0.378	0.167	
27_1_3_112	MW-17	Appendix III	Fluoride	mg/L	10	0	0%	0.142	0.604	
27_1_3_120	MW-17	Appendix III	pH (field)	su	10	0	0%	-0.268	0.328	
27_1_3_124	MW-17	Appendix III	Sulfate (as SO4)	mg/L	10	2	20%	-0.599	0.043	*
27_1_3_126	MW-17	Appendix III	Total Dissolved Solids	mg/L	10	0	0%	0.165	0.548	
27_1_4_101	MW-17	Appendix IV	Antimony	mg/L	10	8	80%	-0.500	0.157	
27_1_4_102	MW-17	Appendix IV	Arsenic	mg/L	10	0	0%	0.083	0.763	
27_1_4_103	MW-17	Appendix IV	Barium	mg/L	10	0	0%	-0.117	0.669	
27_1_4_104	MW-17	Appendix IV	Beryllium	mg/L	10	9	90%	NA	NA	
27_1_4_106	MW-17	Appendix IV	Cadmium	mg/L	10	9	90%	NA	NA	
27_1_4_109	MW-17	Appendix IV	Chromium, Total	mg/L	10	0	0%	-0.319	0.244	
27_1_4_110	MW-17	Appendix IV	Cobalt	mg/L	10	0	0%	-0.270	0.324	
27_1_4_113	MW-17	Appendix IV	Fluoride (App IV)	mg/L	10	0	0%	0.142	0.604	
27_1_4_115	MW-17	Appendix IV	Lead	mg/L	10	1	10%	-0.209	0.463	
27_1_4_116	MW-17	Appendix IV	Lithium	mg/L	10	0	0%	0.060	0.826	
27_1_4_117	MW-17	Appendix IV	Mercury	ng/L	10	7	70%	-0.498	0.172	
27_1_4_118	MW-17	Appendix IV	Molybdenum	mg/L	10	0	0%	-0.179	0.513	
27_1_4_121	MW-17	Appendix IV	Radium 226 and 228	pCi/L	10	3	30%	-0.224	0.468	
27_1_4_122	MW-17	Appendix IV	Selenium	mg/L	10	0	0%	-0.116	0.671	
27_1_5_111	MW-17	Part 115	Copper	mg/L	10	1	10%	-0.094	0.742	
27_1_5_114	MW-17	Part 115	Iron	mg/L	10	0	0%	-0.133	0.628	
27_1_5_119	MW-17	Part 115	Nickel	mg/L	10	0	0%	-0.210	0.444	

(Table continues on next page)

*** p < 0.001, ** p < 0.01, * p < 0.05

Table 4: Autocorrelation Tests, Non-Detects Excluded *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Autocorrelation	Box-Ljung p-value	Sig.
27_1_5_128	MW-17	Part 115	Vanadium	mg/L	10	0	0%	0.255	0.352	
27_1_5_129	MW-17	Part 115	Zinc	mg/L	10	0	0%	0.108	0.693	
28_1_3_105	MW-18	Appendix III	Boron	mg/L	20	0	0%	0.376	0.071	
28_1_3_107	MW-18	Appendix III	Calcium	mg/L	20	0	0%	0.365	0.079	
28_1_3_108	MW-18	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	-0.022	0.914	
28_1_3_112	MW-18	Appendix III	Fluoride	mg/L	20	0	0%	0.229	0.270	
28_1_3_120	MW-18	Appendix III	pH (field)	su	20	0	0%	0.324	0.119	
28_1_3_124	MW-18	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	0.250	0.228	
28_1_3_126	MW-18	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	0.582	0.005	**
28_1_4_101	MW-18	Appendix IV	Antimony	mg/L	20	3	15%	0.154	0.489	
28_1_4_102	MW-18	Appendix IV	Arsenic	mg/L	20	0	0%	0.197	0.342	
28_1_4_103	MW-18	Appendix IV	Barium	mg/L	20	0	0%	0.317	0.128	
28_1_4_104	MW-18	Appendix IV	Beryllium	mg/L	20	16	80%	-0.236	0.504	
28_1_4_106	MW-18	Appendix IV	Cadmium	mg/L	20	7	35%	0.564	0.023	*
28_1_4_109	MW-18	Appendix IV	Chromium, Total	mg/L	20	16	80%	-0.285	0.421	
28_1_4_110	MW-18	Appendix IV	Cobalt	mg/L	20	0	0%	0.643	0.002	**
28_1_4_113	MW-18	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	0.229	0.270	
28_1_4_115	MW-18	Appendix IV	Lead	mg/L	20	12	60%	-0.276	0.351	
28_1_4_116	MW-18	Appendix IV	Lithium	mg/L	20	0	0%	0.214	0.302	
28_1_4_117	MW-18	Appendix IV	Mercury	ng/L	20	15	75%	0.127	0.707	
28_1_4_118	MW-18	Appendix IV	Molybdenum	mg/L	20	0	0%	0.297	0.152	
28_1_4_121	MW-18	Appendix IV	Radium 226 and 228	pCi/L	20	10	50%	0.038	0.889	
28_1_4_122	MW-18	Appendix IV	Selenium	mg/L	20	0	0%	0.071	0.733	
28_1_4_125	MW-18	Appendix IV	Thallium	mg/L	20	18	90%	NA	NA	
28_1_5_111	MW-18	Part 115	Copper	mg/L	20	0	0%	0.179	0.389	
28_1_5_114	MW-18	Part 115	Iron	mg/L	20	0	0%	0.473	0.023	*
28_1_5_119	MW-18	Part 115	Nickel	mg/L	20	0	0%	0.387	0.063	
28_1_5_128	MW-18	Part 115	Vanadium	mg/L	20	18	90%	-0.500	0.157	
28_1_5_129	MW-18	Part 115	Zinc	mg/L	20	0	0%	0.420	0.043	*
29_1_3_105	MW-19	Appendix III	Boron	mg/L	20	0	0%	0.118	0.571	
29_1_3_107	MW-19	Appendix III	Calcium	mg/L	20	0	0%	0.428	0.040	*
29_1_3_108	MW-19	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	0.616	0.003	**
29_1_3_112	MW-19	Appendix III	Fluoride	mg/L	20	0	0%	0.240	0.248	
29_1_3_120	MW-19	Appendix III	pH (field)	su	20	0	0%	-0.212	0.307	
29_1_3_124	MW-19	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	0.095	0.649	
29_1_3_126	MW-19	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	0.712	0.001	***
29_1_4_101	MW-19	Appendix IV	Antimony	mg/L	20	14	70%	0.263	0.415	
29_1_4_102	MW-19	Appendix IV	Arsenic	mg/L	20	0	0%	0.588	0.005	**
29_1_4_103	MW-19	Appendix IV	Barium	mg/L	20	0	0%	0.442	0.033	*
29_1_4_104	MW-19	Appendix IV	Beryllium	mg/L	20	3	15%	0.415	0.062	
29_1_4_106	MW-19	Appendix IV	Cadmium	mg/L	20	18	90%	-0.500	0.157	
29_1_4_109	MW-19	Appendix IV	Chromium, Total	mg/L	20	6	30%	0.368	0.126	

(Table continues on next page)

*** p < 0.001, ** p < 0.01, * p < 0.05

Table 4: Autocorrelation Tests, Non-Detects Excluded *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Autocorrelation	Box-Ljung p-value	Sig.
29_1_4_110	MW-19	Appendix IV	Cobalt	mg/L	20	2	10%	0.020	0.928	
29_1_4_113	MW-19	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	0.240	0.248	
29_1_4_116	MW-19	Appendix IV	Lithium	mg/L	20	0	0%	0.431	0.038	*
29_1_4_117	MW-19	Appendix IV	Mercury	ng/L	20	18	90%	-0.500	0.157	
29_1_4_118	MW-19	Appendix IV	Molybdenum	mg/L	20	0	0%	0.307	0.140	
29_1_4_121	MW-19	Appendix IV	Radium 226 and 228	pCi/L	20	9	45%	0.342	0.195	
29_1_4_122	MW-19	Appendix IV	Selenium	mg/L	20	11	55%	-0.006	0.982	
29_1_4_125	MW-19	Appendix IV	Thallium	mg/L	20	19	95%	NA	NA	
29_1_5_111	MW-19	Part 115	Copper	mg/L	20	16	80%	-0.252	0.476	
29_1_5_114	MW-19	Part 115	Iron	mg/L	20	0	0%	0.672	0.001	**
29_1_5_119	MW-19	Part 115	Nickel	mg/L	20	1	5%	0.103	0.629	
29_1_5_128	MW-19	Part 115	Vanadium	mg/L	20	14	70%	0.150	0.641	
29_1_5_129	MW-19	Part 115	Zinc	mg/L	20	10	50%	0.416	0.128	
30_1_3_105	MW-20	Appendix III	Boron	mg/L	20	0	0%	0.203	0.328	
30_1_3_107	MW-20	Appendix III	Calcium	mg/L	20	0	0%	0.235	0.257	
30_1_3_108	MW-20	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	0.720	0.001	***
30_1_3_112	MW-20	Appendix III	Fluoride	mg/L	20	0	0%	0.068	0.743	
30_1_3_120	MW-20	Appendix III	pH (field)	su	20	0	0%	0.116	0.575	
30_1_3_124	MW-20	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	0.497	0.017	*
30_1_3_126	MW-20	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	0.221	0.289	
30_1_4_101	MW-20	Appendix IV	Antimony	mg/L	20	8	40%	-0.043	0.866	
30_1_4_102	MW-20	Appendix IV	Arsenic	mg/L	20	0	0%	0.049	0.814	
30_1_4_103	MW-20	Appendix IV	Barium	mg/L	20	0	0%	0.232	0.264	
30_1_4_104	MW-20	Appendix IV	Beryllium	mg/L	20	19	95%	NA	NA	
30_1_4_106	MW-20	Appendix IV	Cadmium	mg/L	20	19	95%	NA	NA	
30_1_4_109	MW-20	Appendix IV	Chromium, Total	mg/L	20	10	50%	-0.111	0.686	
30_1_4_110	MW-20	Appendix IV	Cobalt	mg/L	20	0	0%	0.382	0.066	
30_1_4_113	MW-20	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	0.068	0.743	
30_1_4_115	MW-20	Appendix IV	Lead	mg/L	20	0	0%	0.039	0.852	
30_1_4_116	MW-20	Appendix IV	Lithium	mg/L	20	0	0%	0.347	0.095	
30_1_4_117	MW-20	Appendix IV	Mercury	ng/L	20	14	70%	-0.239	0.458	
30_1_4_118	MW-20	Appendix IV	Molybdenum	mg/L	20	0	0%	0.410	0.049	*
30_1_4_121	MW-20	Appendix IV	Radium 226 and 228	pCi/L	19	10	53%	0.121	0.671	
30_1_4_122	MW-20	Appendix IV	Selenium	mg/L	20	12	60%	-0.281	0.342	
30_1_4_125	MW-20	Appendix IV	Thallium	mg/L	20	19	95%	NA	NA	
30_1_5_111	MW-20	Part 115	Copper	mg/L	20	2	10%	-0.031	0.888	
30_1_5_114	MW-20	Part 115	Iron	mg/L	20	0	0%	0.362	0.081	
30_1_5_119	MW-20	Part 115	Nickel	mg/L	20	0	0%	0.060	0.771	
30_1_5_129	MW-20	Part 115	Zinc	mg/L	20	0	0%	0.166	0.425	
38_1_3_105	MW-28	Appendix III	Boron	mg/L	10	0	0%	0.044	0.871	
38_1_3_107	MW-28	Appendix III	Calcium	mg/L	10	0	0%	0.039	0.886	
38_1_3_108	MW-28	Appendix III	Chloride (as Cl)	mg/L	10	0	0%	0.517	0.059	

(Table continues on next page)

*** p < 0.001, ** p < 0.01, * p < 0.05

Table 4: Autocorrelation Tests, Non-Detects Excluded *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Autocorrelation	Box-Ljung p-value	Sig.
38_1_3_112	MW-28	Appendix III	Fluoride	mg/L	10	0	0%	-0.046	0.867	
38_1_3_120	MW-28	Appendix III	pH (field)	su	10	0	0%	-0.585	0.033	*
38_1_3_124	MW-28	Appendix III	Sulfate (as SO4)	mg/L	10	2	20%	-0.107	0.717	
38_1_3_126	MW-28	Appendix III	Total Dissolved Solids	mg/L	10	0	0%	0.494	0.072	
38_1_4_101	MW-28	Appendix IV	Antimony	mg/L	10	0	0%	0.203	0.459	
38_1_4_102	MW-28	Appendix IV	Arsenic	mg/L	10	0	0%	0.070	0.798	
38_1_4_103	MW-28	Appendix IV	Barium	mg/L	10	0	0%	0.042	0.878	
38_1_4_106	MW-28	Appendix IV	Cadmium	mg/L	10	5	50%	-0.281	0.407	
38_1_4_109	MW-28	Appendix IV	Chromium, Total	mg/L	10	0	0%	0.074	0.786	
38_1_4_110	MW-28	Appendix IV	Cobalt	mg/L	10	0	0%	0.254	0.355	
38_1_4_113	MW-28	Appendix IV	Fluoride (App IV)	mg/L	10	0	0%	-0.046	0.867	
38_1_4_115	MW-28	Appendix IV	Lead	mg/L	10	0	0%	0.441	0.107	
38_1_4_116	MW-28	Appendix IV	Lithium	mg/L	10	0	0%	0.088	0.747	
38_1_4_117	MW-28	Appendix IV	Mercury	ng/L	10	3	30%	-0.061	0.843	
38_1_4_118	MW-28	Appendix IV	Molybdenum	mg/L	10	0	0%	0.327	0.232	
38_1_4_121	MW-28	Appendix IV	Radium 226 and 228	pCi/L	9	2	22%	-0.434	0.160	
38_1_4_122	MW-28	Appendix IV	Selenium	mg/L	10	0	0%	-0.047	0.864	
38_1_5_111	MW-28	Part 115	Copper	mg/L	10	1	10%	0.157	0.580	
38_1_5_114	MW-28	Part 115	Iron	mg/L	10	0	0%	0.179	0.513	
38_1_5_119	MW-28	Part 115	Nickel	mg/L	10	0	0%	0.147	0.592	
38_1_5_128	MW-28	Part 115	Vanadium	mg/L	10	2	20%	0.348	0.239	
38_1_5_129	MW-28	Part 115	Zinc	mg/L	10	0	0%	0.034	0.902	
40_1_3_105	MW-30	Appendix III	Boron	mg/L	20	0	0%	-0.043	0.836	
40_1_3_107	MW-30	Appendix III	Calcium	mg/L	20	0	0%	-0.056	0.789	
40_1_3_108	MW-30	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	0.830	0.000	***
40_1_3_112	MW-30	Appendix III	Fluoride	mg/L	20	0	0%	-0.265	0.202	
40_1_3_120	MW-30	Appendix III	pH (field)	su	20	0	0%	0.029	0.889	
40_1_3_124	MW-30	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	-0.027	0.897	
40_1_3_126	MW-30	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	0.659	0.002	**
40_1_4_101	MW-30	Appendix IV	Antimony	mg/L	20	16	80%	-0.289	0.414	
40_1_4_102	MW-30	Appendix IV	Arsenic	mg/L	20	2	10%	0.195	0.370	
40_1_4_103	MW-30	Appendix IV	Barium	mg/L	20	0	0%	0.212	0.308	
40_1_4_104	MW-30	Appendix IV	Beryllium	mg/L	20	16	80%	-0.586	0.097	
40_1_4_106	MW-30	Appendix IV	Cadmium	mg/L	20	19	95%	NA	NA	
40_1_4_109	MW-30	Appendix IV	Chromium, Total	mg/L	20	0	0%	-0.049	0.813	
40_1_4_110	MW-30	Appendix IV	Cobalt	mg/L	20	0	0%	-0.067	0.746	
40_1_4_113	MW-30	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	-0.265	0.202	
40_1_4_115	MW-30	Appendix IV	Lead	mg/L	20	18	90%	-0.500	0.157	
40_1_4_116	MW-30	Appendix IV	Lithium	mg/L	20	0	0%	-0.130	0.533	
40_1_4_117	MW-30	Appendix IV	Mercury	ng/L	20	18	90%	-0.500	0.157	
40_1_4_118	MW-30	Appendix IV	Molybdenum	mg/L	20	3	15%	-0.123	0.579	
40_1_4_121	MW-30	Appendix IV	Radium 226 and 228	pCi/L	20	11	55%	-0.358	0.208	

(Table continues on next page)

*** p < 0.001, ** p < 0.01, * p < 0.05

Table 4: Autocorrelation Tests, Non-Detects Excluded *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Autocorrelation	Box-Ljung p-value	Sig.
40_1_4_122	MW-30	Appendix IV	Selenium	mg/L	20	7	35%	-0.107	0.666	
40_1_5_111	MW-30	Part 115	Copper	mg/L	20	14	70%	-0.045	0.890	
40_1_5_114	MW-30	Part 115	Iron	mg/L	20	0	0%	-0.032	0.877	
40_1_5_119	MW-30	Part 115	Nickel	mg/L	20	3	15%	-0.056	0.800	
40_1_5_123	MW-30	Part 115	Silver	mg/L	20	19	95%	NA	NA	
40_1_5_128	MW-30	Part 115	Vanadium	mg/L	20	16	80%	-0.415	0.240	
40_1_5_129	MW-30	Part 115	Zinc	mg/L	20	10	50%	-0.213	0.436	
41_1_3_105	MW-31	Appendix III	Boron	mg/L	20	0	0%	0.547	0.008	**
41_1_3_107	MW-31	Appendix III	Calcium	mg/L	20	0	0%	0.184	0.377	
41_1_3_108	MW-31	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	0.509	0.014	*
41_1_3_112	MW-31	Appendix III	Fluoride	mg/L	20	0	0%	0.797	0.000	***
41_1_3_120	MW-31	Appendix III	pH (field)	su	20	0	0%	0.129	0.533	
41_1_3_124	MW-31	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	0.139	0.505	
41_1_3_126	MW-31	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	0.362	0.082	
41_1_4_101	MW-31	Appendix IV	Antimony	mg/L	20	7	35%	0.188	0.447	
41_1_4_102	MW-31	Appendix IV	Arsenic	mg/L	20	0	0%	0.478	0.021	*
41_1_4_103	MW-31	Appendix IV	Barium	mg/L	20	0	0%	0.248	0.233	
41_1_4_104	MW-31	Appendix IV	Beryllium	mg/L	20	17	85%	-0.248	0.497	
41_1_4_106	MW-31	Appendix IV	Cadmium	mg/L	20	19	95%	NA	NA	
41_1_4_109	MW-31	Appendix IV	Chromium, Total	mg/L	20	0	0%	0.487	0.019	*
41_1_4_110	MW-31	Appendix IV	Cobalt	mg/L	20	3	15%	0.152	0.494	
41_1_4_113	MW-31	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	0.797	0.000	***
41_1_4_115	MW-31	Appendix IV	Lead	mg/L	20	14	70%	0.118	0.714	
41_1_4_116	MW-31	Appendix IV	Lithium	mg/L	20	0	0%	0.561	0.007	**
41_1_4_117	MW-31	Appendix IV	Mercury	ng/L	20	14	70%	-0.194	0.547	
41_1_4_118	MW-31	Appendix IV	Molybdenum	mg/L	20	0	0%	0.337	0.104	
41_1_4_121	MW-31	Appendix IV	Radium 226 and 228	pCi/L	20	8	40%	-0.295	0.249	
41_1_4_122	MW-31	Appendix IV	Selenium	mg/L	20	6	30%	-0.066	0.783	
41_1_4_125	MW-31	Appendix IV	Thallium	mg/L	20	19	95%	NA	NA	
41_1_5_111	MW-31	Part 115	Copper	mg/L	20	10	50%	0.195	0.477	
41_1_5_114	MW-31	Part 115	Iron	mg/L	20	0	0%	0.398	0.056	
41_1_5_119	MW-31	Part 115	Nickel	mg/L	20	10	50%	-0.161	0.557	
41_1_5_128	MW-31	Part 115	Vanadium	mg/L	20	12	60%	-0.140	0.636	
41_1_5_129	MW-31	Part 115	Zinc	mg/L	20	9	45%	0.446	0.091	
42_1_3_105	MW-32	Appendix III	Boron	mg/L	20	0	0%	0.189	0.364	
42_1_3_107	MW-32	Appendix III	Calcium	mg/L	20	0	0%	0.453	0.029	*
42_1_3_108	MW-32	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	0.464	0.025	*
42_1_3_112	MW-32	Appendix III	Fluoride	mg/L	20	0	0%	0.243	0.242	
42_1_3_120	MW-32	Appendix III	pH (field)	su	20	0	0%	0.297	0.152	
42_1_3_124	MW-32	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	0.315	0.129	
42_1_3_126	MW-32	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	0.411	0.048	*
42_1_4_101	MW-32	Appendix IV	Antimony	mg/L	20	16	80%	0.004	0.991	

(Table continues on next page)

*** p < 0.001, ** p < 0.01, * p < 0.05

Table 4: Autocorrelation Tests, Non-Detects Excluded *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Autocorrelation	Box-Ljung p-value	Sig.
42_1_4_102	MW-32	Appendix IV	Arsenic	mg/L	20	0	0%	-0.027	0.896	
42_1_4_103	MW-32	Appendix IV	Barium	mg/L	20	0	0%	0.401	0.054	
42_1_4_104	MW-32	Appendix IV	Beryllium	mg/L	20	19	95%	NA	NA	
42_1_4_106	MW-32	Appendix IV	Cadmium	mg/L	20	16	80%	-0.517	0.143	
42_1_4_109	MW-32	Appendix IV	Chromium, Total	mg/L	20	0	0%	-0.086	0.679	
42_1_4_110	MW-32	Appendix IV	Cobalt	mg/L	20	0	0%	-0.060	0.773	
42_1_4_113	MW-32	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	0.243	0.242	
42_1_4_115	MW-32	Appendix IV	Lead	mg/L	20	15	75%	0.425	0.209	
42_1_4_116	MW-32	Appendix IV	Lithium	mg/L	20	0	0%	0.054	0.796	
42_1_4_117	MW-32	Appendix IV	Mercury	ng/L	20	15	75%	-0.050	0.883	
42_1_4_118	MW-32	Appendix IV	Molybdenum	mg/L	20	0	0%	0.503	0.016	*
42_1_4_121	MW-32	Appendix IV	Radium 226 and 228	pCi/L	20	9	45%	0.042	0.874	
42_1_4_122	MW-32	Appendix IV	Selenium	mg/L	20	16	80%	-0.082	0.816	
42_1_5_111	MW-32	Part 115	Copper	mg/L	20	12	60%	-0.153	0.604	
42_1_5_114	MW-32	Part 115	Iron	mg/L	20	0	0%	0.597	0.004	**
42_1_5_119	MW-32	Part 115	Nickel	mg/L	20	0	0%	-0.099	0.634	
42_1_5_129	MW-32	Part 115	Zinc	mg/L	20	0	0%	0.344	0.098	
46_1_3_105	MW-36	Appendix III	Boron	mg/L	10	0	0%	-0.187	0.495	
46_1_3_107	MW-36	Appendix III	Calcium	mg/L	10	0	0%	0.464	0.090	
46_1_3_108	MW-36	Appendix III	Chloride (as Cl)	mg/L	10	0	0%	0.693	0.011	*
46_1_3_112	MW-36	Appendix III	Fluoride	mg/L	10	0	0%	0.047	0.865	
46_1_3_120	MW-36	Appendix III	pH (field)	su	10	0	0%	0.070	0.799	
46_1_3_124	MW-36	Appendix III	Sulfate (as SO4)	mg/L	10	0	0%	-0.223	0.415	
46_1_3_126	MW-36	Appendix III	Total Dissolved Solids	mg/L	10	0	0%	-0.067	0.806	
46_1_4_101	MW-36	Appendix IV	Antimony	mg/L	10	0	0%	-0.446	0.103	
46_1_4_102	MW-36	Appendix IV	Arsenic	mg/L	10	0	0%	0.531	0.053	
46_1_4_103	MW-36	Appendix IV	Barium	mg/L	10	0	0%	0.024	0.931	
46_1_4_104	MW-36	Appendix IV	Beryllium	mg/L	10	9	90%	NA	NA	
46_1_4_106	MW-36	Appendix IV	Cadmium	mg/L	10	2	20%	-0.073	0.805	
46_1_4_109	MW-36	Appendix IV	Chromium, Total	mg/L	10	0	0%	0.223	0.416	
46_1_4_110	MW-36	Appendix IV	Cobalt	mg/L	10	0	0%	0.130	0.634	
46_1_4_113	MW-36	Appendix IV	Fluoride (App IV)	mg/L	10	0	0%	0.047	0.865	
46_1_4_115	MW-36	Appendix IV	Lead	mg/L	10	0	0%	0.099	0.717	
46_1_4_116	MW-36	Appendix IV	Lithium	mg/L	10	0	0%	-0.083	0.761	
46_1_4_117	MW-36	Appendix IV	Mercury	ng/L	10	4	40%	-0.677	0.036	*
46_1_4_118	MW-36	Appendix IV	Molybdenum	mg/L	10	0	0%	0.039	0.887	
46_1_4_121	MW-36	Appendix IV	Radium 226 and 228	pCi/L	9	7	78%	-0.500	0.157	
46_1_4_122	MW-36	Appendix IV	Selenium	mg/L	10	0	0%	-0.161	0.557	
46_1_5_111	MW-36	Part 115	Copper	mg/L	10	0	0%	0.376	0.170	
46_1_5_114	MW-36	Part 115	Iron	mg/L	10	0	0%	0.008	0.976	
46_1_5_119	MW-36	Part 115	Nickel	mg/L	10	0	0%	0.336	0.220	
46_1_5_123	MW-36	Part 115	Silver	mg/L	10	1	10%	0.079	0.781	

(Table continues on next page)

*** p < 0.001, ** p < 0.01, * p < 0.05

Table 4: Autocorrelation Tests, Non-Detects Excluded *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Autocorrelation	Box-Ljung p-value	Sig.
46_1_5_128	MW-36	Part 115	Vanadium	mg/L	10	0	0%	-0.426	0.120	
46_1_5_129	MW-36	Part 115	Zinc	mg/L	10	0	0%	0.166	0.544	
47_1_3_105	MW-37	Appendix III	Boron	mg/L	10	0	0%	0.072	0.791	
47_1_3_107	MW-37	Appendix III	Calcium	mg/L	10	0	0%	-0.463	0.091	
47_1_3_108	MW-37	Appendix III	Chloride (as Cl)	mg/L	10	0	0%	0.506	0.064	
47_1_3_112	MW-37	Appendix III	Fluoride	mg/L	10	0	0%	-0.068	0.803	
47_1_3_120	MW-37	Appendix III	pH (field)	su	10	0	0%	-0.100	0.715	
47_1_3_124	MW-37	Appendix III	Sulfate (as SO4)	mg/L	10	0	0%	-0.546	0.046	*
47_1_3_126	MW-37	Appendix III	Total Dissolved Solids	mg/L	10	0	0%	-0.266	0.332	
47_1_4_101	MW-37	Appendix IV	Antimony	mg/L	10	1	10%	-0.041	0.884	
47_1_4_102	MW-37	Appendix IV	Arsenic	mg/L	10	0	0%	0.196	0.474	
47_1_4_103	MW-37	Appendix IV	Barium	mg/L	10	0	0%	0.162	0.553	
47_1_4_104	MW-37	Appendix IV	Beryllium	mg/L	10	9	90%	NA	NA	
47_1_4_106	MW-37	Appendix IV	Cadmium	mg/L	10	5	50%	-0.211	0.533	
47_1_4_109	MW-37	Appendix IV	Chromium, Total	mg/L	10	0	0%	-0.408	0.136	
47_1_4_110	MW-37	Appendix IV	Cobalt	mg/L	10	0	0%	0.157	0.567	
47_1_4_113	MW-37	Appendix IV	Fluoride (App IV)	mg/L	10	0	0%	-0.068	0.803	
47_1_4_115	MW-37	Appendix IV	Lead	mg/L	10	2	20%	-0.174	0.555	
47_1_4_116	MW-37	Appendix IV	Lithium	mg/L	10	0	0%	0.227	0.407	
47_1_4_117	MW-37	Appendix IV	Mercury	ng/L	10	4	40%	-0.428	0.185	
47_1_4_118	MW-37	Appendix IV	Molybdenum	mg/L	10	0	0%	-0.171	0.532	
47_1_4_121	MW-37	Appendix IV	Radium 226 and 228	pCi/L	10	5	50%	-0.593	0.080	
47_1_4_122	MW-37	Appendix IV	Selenium	mg/L	10	0	0%	-0.153	0.577	
47_1_4_125	MW-37	Appendix IV	Thallium	mg/L	10	9	90%	NA	NA	
47_1_5_111	MW-37	Part 115	Copper	mg/L	10	0	0%	-0.184	0.502	
47_1_5_114	MW-37	Part 115	Iron	mg/L	10	1	10%	0.109	0.700	
47_1_5_119	MW-37	Part 115	Nickel	mg/L	10	0	0%	0.520	0.058	
47_1_5_123	MW-37	Part 115	Silver	mg/L	10	9	90%	NA	NA	
47_1_5_128	MW-37	Part 115	Vanadium	mg/L	10	5	50%	-0.449	0.184	
47_1_5_129	MW-37	Part 115	Zinc	mg/L	10	0	0%	0.591	0.031	*
48_2_3_105	MW-38	Appendix III	Boron	mg/L	10	0	0%	0.284	0.300	
48_2_3_107	MW-38	Appendix III	Calcium	mg/L	10	0	0%	-0.319	0.243	
48_2_3_108	MW-38	Appendix III	Chloride (as Cl)	mg/L	10	0	0%	0.547	0.046	*
48_2_3_112	MW-38	Appendix III	Fluoride	mg/L	10	0	0%	-0.016	0.955	
48_2_3_120	MW-38	Appendix III	pH (field)	su	10	0	0%	0.260	0.343	
48_2_3_124	MW-38	Appendix III	Sulfate (as SO4)	mg/L	10	0	0%	0.230	0.401	
48_2_3_126	MW-38	Appendix III	Total Dissolved Solids	mg/L	10	0	0%	-0.314	0.252	
48_2_4_101	MW-38	Appendix IV	Antimony	mg/L	10	2	20%	-0.169	0.567	
48_2_4_102	MW-38	Appendix IV	Arsenic	mg/L	10	0	0%	-0.198	0.470	
48_2_4_103	MW-38	Appendix IV	Barium	mg/L	10	0	0%	-0.244	0.372	
48_2_4_104	MW-38	Appendix IV	Beryllium	mg/L	10	7	70%	-0.591	0.106	
48_2_4_106	MW-38	Appendix IV	Cadmium	mg/L	10	4	40%	-0.613	0.057	

(Table continues on next page)

*** p < 0.001, ** p < 0.01, * p < 0.05

Table 4: Autocorrelation Tests, Non-Detects Excluded *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Autocorrelation	Box-Ljung p-value	Sig.
48_2_4_109	MW-38	Appendix IV	Chromium, Total	mg/L	10	1	10%	-0.513	0.071	
48_2_4_110	MW-38	Appendix IV	Cobalt	mg/L	10	0	0%	-0.096	0.726	
48_2_4_113	MW-38	Appendix IV	Fluoride (App IV)	mg/L	10	0	0%	-0.016	0.955	
48_2_4_115	MW-38	Appendix IV	Lead	mg/L	10	1	10%	-0.202	0.478	
48_2_4_116	MW-38	Appendix IV	Lithium	mg/L	10	0	0%	-0.497	0.069	
48_2_4_117	MW-38	Appendix IV	Mercury	ng/L	10	4	40%	-0.149	0.644	
48_2_4_118	MW-38	Appendix IV	Molybdenum	mg/L	10	0	0%	-0.008	0.975	
48_2_4_121	MW-38	Appendix IV	Radium 226 and 228	pCi/L	9	5	56%	0.213	0.546	
48_2_4_122	MW-38	Appendix IV	Selenium	mg/L	10	0	0%	-0.002	0.995	
48_2_5_111	MW-38	Part 115	Copper	mg/L	10	1	10%	0.095	0.738	
48_2_5_114	MW-38	Part 115	Iron	mg/L	10	0	0%	-0.337	0.219	
48_2_5_119	MW-38	Part 115	Nickel	mg/L	10	0	0%	0.036	0.897	
48_2_5_123	MW-38	Part 115	Silver	mg/L	10	6	60%	-0.337	0.341	
48_2_5_128	MW-38	Part 115	Vanadium	mg/L	10	2	20%	-0.160	0.589	
48_2_5_129	MW-38	Part 115	Zinc	mg/L	10	1	10%	0.236	0.406	

*** p < 0.001, ** p < 0.01, * p < 0.05

Table 5: Outlier Counts by Date

Date	Count
2022-11-28	1
2022-11-30	2
2023-01-03	6
2023-01-04	8
2023-01-05	1
2023-02-06	1
2023-02-08	1
2023-03-13	2
2023-03-14	1
2023-04-18	4
2023-05-23	2
2023-06-28	1
2023-08-07	1
2023-08-08	1
2023-10-24	3
2024-02-12	5
2024-02-13	8
2024-04-07	6
2024-07-17	2
2024-07-18	1
2024-10-15	1
2024-10-16	3
2025-02-25	5
2025-02-26	1
2025-04-20	1
2025-04-21	1
2025-08-12	1
2025-08-13	1
2025-10-21	9
2025-10-22	9
2025-10-23	2
2026-02-16	7
2026-02-17	5
2026-02-18	9
2026-02-19	3
2026-04-21	5
2026-04-22	21
2026-08-12	2

Table 6: Outliers Identified at the 1% Significance Level, Non-Detects Excluded

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	No. Detects	Date	Dilution	Value
11_2_3_120	MW-01R	Appendix III	pH (field)	su	20	0	0%	20	2023-01-03	NA	6.02
11_2_4_101	MW-01R	Appendix IV	Antimony	mg/L	20	3	15%	17	2026-04-22	1	0.00290
11_2_4_102	MW-01R	Appendix IV	Arsenic	mg/L	20	0	0%	20	2024-02-13	1	0.00410
11_2_4_106	MW-01R	Appendix IV	Cadmium	mg/L	20	13	65%	7	2026-04-22	1	0.00190
11_2_4_109	MW-01R	Appendix IV	Chromium, Total	mg/L	20	0	0%	20	2024-02-13	1	0.0220
11_2_4_110	MW-01R	Appendix IV	Cobalt	mg/L	20	0	0%	20	2026-04-22	1	0.0840
11_2_4_118	MW-01R	Appendix IV	Molybdenum	mg/L	20	2	10%	18	2026-04-22	1	0.00580
11_2_4_122	MW-01R	Appendix IV	Selenium	mg/L	20	0	0%	20	2026-04-22	1	0.00260
11_2_5_119	MW-01R	Part 115	Nickel	mg/L	20	0	0%	20	2026-04-22	1	0.0680
11_2_5_129	MW-01R	Part 115	Zinc	mg/L	20	3	15%	17	2026-04-22	1	0.140
12_2_3_108	MW-02	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	20	2023-02-08	50	67.0
12_2_3_124	MW-02	Appendix III	Sulfate (as SO4)	mg/L	20	10	50%	10	2026-04-22	10	51.0
12_2_4_101	MW-02	Appendix IV	Antimony	mg/L	20	3	15%	17	2023-04-18	5	0.000630
12_2_4_102	MW-02	Appendix IV	Arsenic	mg/L	20	0	0%	20	2024-02-13	1	0.000440
12_2_4_106	MW-02	Appendix IV	Cadmium	mg/L	20	14	70%	6	2023-10-24	1	0.000490
12_2_4_118	MW-02	Appendix IV	Molybdenum	mg/L	20	0	0%	20	2026-02-17	1	0.0290
12_2_5_119	MW-02	Part 115	Nickel	mg/L	20	0	0%	20	2026-02-17	1	0.0740
13_2_3_108	MW-03	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	20	2022-11-28	100	300
13_2_3_112	MW-03	Appendix III	Fluoride	mg/L	20	0	0%	20	2023-01-04	5	1.60
13_2_4_101	MW-03	Appendix IV	Antimony	mg/L	20	14	70%	6	2023-04-18	5	0.000450
13_2_4_113	MW-03	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	20	2023-01-04	5	1.60
13_2_4_116	MW-03	Appendix IV	Lithium	mg/L	20	0	0%	20	2023-01-04	1	0.0650
13_2_4_117	MW-03	Appendix IV	Mercury	ng/L	20	15	75%	5	2023-10-24	1	240
13_2_5_114	MW-03	Part 115	Iron	mg/L	20	0	0%	20	2023-01-04	1	5.90
13_2_5_119	MW-03	Part 115	Nickel	mg/L	20	1	5%	19	2023-01-04	1	0.0150
14_2_3_107	MW-04	Appendix III	Calcium	mg/L	20	0	0%	20	2025-10-22	50	560
14_2_4_102	MW-04	Appendix IV	Arsenic	mg/L	20	0	0%	20	2026-02-19	1	0.00590
14_2_4_103	MW-04	Appendix IV	Barium	mg/L	20	0	0%	20	2023-01-04	1	0.460
14_2_4_110	MW-04	Appendix IV	Cobalt	mg/L	20	0	0%	20	2025-10-22	1	0.00250
14_2_4_122	MW-04	Appendix IV	Selenium	mg/L	20	5	25%	15	2025-04-21	1	0.00120
16_1_3_120	MW-06	Appendix III	pH (field)	su	20	0	0%	20	2023-02-06	NA	6.42
16_1_3_124	MW-06	Appendix III	Sulfate (as SO4)	mg/L	20	2	10%	18	2026-04-22	10	100
16_1_4_103	MW-06	Appendix IV	Barium	mg/L	20	0	0%	20	2026-08-12	1	0.870
16_1_4_110	MW-06	Appendix IV	Cobalt	mg/L	20	0	0%	20	2026-04-22	1	0.00340
16_1_4_118	MW-06	Appendix IV	Molybdenum	mg/L	20	10	50%	10	2026-04-22	1	0.00510
16_1_4_122	MW-06	Appendix IV	Selenium	mg/L	20	5	25%	15	2024-02-13	1	0.000470
16_1_5_111	MW-06	Part 115	Copper	mg/L	20	13	65%	7	2026-04-22	1	0.00330
16_1_5_119	MW-06	Part 115	Nickel	mg/L	20	6	30%	14	2026-04-22	1	0.00380
16_1_5_128	MW-06	Part 115	Vanadium	mg/L	20	14	70%	6	2026-04-22	1	0.00390
17_1_3_126	MW-07	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	20	2023-01-04	4	470
17_1_4_104	MW-07	Appendix IV	Beryllium	mg/L	20	15	75%	5	2026-02-19	1	0.000120
17_1_4_109	MW-07	Appendix IV	Chromium, Total	mg/L	20	0	0%	20	2024-07-17	1	0.000740
17_1_4_121	MW-07	Appendix IV	Radium 226 and 228	pCi/L	20	2	10%	18	2023-08-07	1	2.36

(Table continues on next page)

Table 6: Outliers Identified at the 1% Significance Level, Non-Detects Excluded *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	No. Detects	Date	Dilution	Value
17_1_4_122	MW-07	Appendix IV	Selenium	mg/L	20	9	45%	11	2024-02-13	1	0.000230
17_1_5_111	MW-07	Part 115	Copper	mg/L	20	15	75%	5	2025-02-26	1	0.000620
17_1_5_119	MW-07	Part 115	Nickel	mg/L	20	14	70%	6	2024-10-15	1	0.000710
18_1_3_107	MW-08	Appendix III	Calcium	mg/L	20	0	0%	20	2026-04-21	1	85.0
18_1_3_120	MW-08	Appendix III	pH (field)	su	20	0	0%	20	2023-01-05	NA	6.21
18_1_4_115	MW-08	Appendix IV	Lead	mg/L	20	12	60%	8	2024-10-16	1	0.00290
18_1_4_122	MW-08	Appendix IV	Selenium	mg/L	20	7	35%	13	2024-02-13	1	0.000340
18_1_5_119	MW-08	Part 115	Nickel	mg/L	20	0	0%	20	2024-10-16	1	0.0130
19_2_3_105	MW-09	Appendix III	Boron	mg/L	20	0	0%	20	2026-04-22	10	2.30
19_2_4_103	MW-09	Appendix IV	Barium	mg/L	20	0	0%	20	2023-01-04	5	2.40
19_2_4_110	MW-09	Appendix IV	Cobalt	mg/L	20	0	0%	20	2026-04-22	1	0.00640
19_2_4_116	MW-09	Appendix IV	Lithium	mg/L	20	0	0%	20	2026-04-22	1	0.540
19_2_4_122	MW-09	Appendix IV	Selenium	mg/L	20	2	10%	18	2026-02-17	1	0.00350
19_2_5_119	MW-09	Part 115	Nickel	mg/L	20	0	0%	20	2025-02-25	1	0.100
19_2_5_129	MW-09	Part 115	Zinc	mg/L	20	8	40%	12	2026-02-17	1	0.120
20_3_3_120	MW-10	Appendix III	pH (field)	su	20	0	0%	20	2023-05-23	NA	8.81
20_3_4_101	MW-10	Appendix IV	Antimony	mg/L	20	15	75%	5	2023-04-18	5	0.000340
20_3_4_110	MW-10	Appendix IV	Cobalt	mg/L	20	1	5%	19	2023-05-23	1	0.00180
20_3_4_116	MW-10	Appendix IV	Lithium	mg/L	20	0	0%	20	2023-03-14	50	1.60
20_3_4_117	MW-10	Appendix IV	Mercury	ng/L	20	17	85%	3	2024-04-07	1	1900
20_3_4_122	MW-10	Appendix IV	Selenium	mg/L	20	1	5%	19	2024-02-13	1	0.000830
20_3_5_129	MW-10	Part 115	Zinc	mg/L	20	7	35%	13	2026-02-17	1	0.0480
21_2_3_126	MW-11	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	20	2023-10-24	4	1800
21_2_4_104	MW-11	Appendix IV	Beryllium	mg/L	20	14	70%	6	2024-04-07	1	0.000440
21_2_4_109	MW-11	Appendix IV	Chromium, Total	mg/L	20	0	0%	20	2023-01-03	1	0.00860
21_2_4_110	MW-11	Appendix IV	Cobalt	mg/L	20	0	0%	20	2025-10-23	1	0.00260
21_2_4_115	MW-11	Appendix IV	Lead	mg/L	20	3	15%	17	2023-01-03	1	0.0680
21_2_4_117	MW-11	Appendix IV	Mercury	ng/L	20	13	65%	7	2024-04-07	1	1100
21_2_4_122	MW-11	Appendix IV	Selenium	mg/L	20	3	15%	17	2024-02-13	1	0.000710
21_2_5_111	MW-11	Part 115	Copper	mg/L	20	4	20%	16	2023-01-03	1	0.0190
21_2_5_119	MW-11	Part 115	Nickel	mg/L	20	0	0%	20	2025-10-23	1	0.0150
21_2_5_128	MW-11	Part 115	Vanadium	mg/L	20	13	65%	7	2024-04-07	1	0.00300
22_2_4_106	MW-12	Appendix IV	Cadmium	mg/L	20	0	0%	20	2025-08-13	1	0.0110
22_2_4_110	MW-12	Appendix IV	Cobalt	mg/L	20	5	25%	15	2025-10-22	1	0.00280
22_2_4_118	MW-12	Appendix IV	Molybdenum	mg/L	20	0	0%	20	2024-10-16	1	0.0180
22_2_5_114	MW-12	Part 115	Iron	mg/L	20	6	30%	14	2025-10-22	1	0.920
22_2_5_119	MW-12	Part 115	Nickel	mg/L	20	0	0%	20	2025-10-22	1	0.00730
27_1_4_109	MW-17	Appendix IV	Chromium, Total	mg/L	10	0	0%	10	2026-02-18	1	0.00240
27_1_4_110	MW-17	Appendix IV	Cobalt	mg/L	10	0	0%	10	2026-02-18	1	0.000890
27_1_4_118	MW-17	Appendix IV	Molybdenum	mg/L	10	0	0%	10	2026-02-18	1	0.0130
27_1_4_122	MW-17	Appendix IV	Selenium	mg/L	10	0	0%	10	2026-02-18	1	0.00150
27_1_5_111	MW-17	Part 115	Copper	mg/L	10	1	10%	9	2026-02-18	1	0.00630
27_1_5_119	MW-17	Part 115	Nickel	mg/L	10	0	0%	10	2026-02-18	1	0.00860

(Table continues on next page)

Table 6: Outliers Identified at the 1% Significance Level, Non-Detects Excluded *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	No. Detects	Date	Dilution	Value
28_1_4_101	MW-18	Appendix IV	Antimony	mg/L	20	3	15%	17	2026-04-22	1	0.00110
28_1_4_103	MW-18	Appendix IV	Barium	mg/L	20	0	0%	20	2026-04-22	1	0.0880
28_1_4_121	MW-18	Appendix IV	Radium 226 and 228	pCi/L	20	10	50%	10	2023-04-18	NA	1.27
28_1_4_122	MW-18	Appendix IV	Selenium	mg/L	20	0	0%	20	2026-04-22	1	0.00660
28_1_5_111	MW-18	Part 115	Copper	mg/L	20	0	0%	20	2026-04-22	1	0.00410
29_1_4_109	MW-19	Appendix IV	Chromium, Total	mg/L	20	6	30%	14	2023-01-03	1	0.000530
29_1_4_122	MW-19	Appendix IV	Selenium	mg/L	20	11	55%	9	2026-02-18	1	0.00360
29_1_5_119	MW-19	Part 115	Nickel	mg/L	20	1	5%	19	2024-07-18	1	0.0170
30_1_3_107	MW-20	Appendix III	Calcium	mg/L	20	0	0%	20	2023-06-28	1	58.0
30_1_3_112	MW-20	Appendix III	Fluoride	mg/L	20	0	0%	20	2022-11-30	25	0.550
30_1_4_101	MW-20	Appendix IV	Antimony	mg/L	20	8	40%	12	2025-10-22	1	0.000650
30_1_4_109	MW-20	Appendix IV	Chromium, Total	mg/L	20	10	50%	10	2026-02-19	1	0.00190
30_1_4_113	MW-20	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	20	2022-11-30	25	0.550
30_1_4_115	MW-20	Appendix IV	Lead	mg/L	20	0	0%	20	2025-10-22	1	0.00780
30_1_5_111	MW-20	Part 115	Copper	mg/L	20	2	10%	18	2025-10-22	1	0.00330
30_1_5_119	MW-20	Part 115	Nickel	mg/L	20	0	0%	20	2025-10-22	1	0.0340
38_1_4_106	MW-28	Appendix IV	Cadmium	mg/L	10	5	50%	5	2026-02-18	1	0.00370
38_1_4_117	MW-28	Appendix IV	Mercury	ng/L	10	3	30%	7	2024-04-07	1	240
38_1_4_122	MW-28	Appendix IV	Selenium	mg/L	10	0	0%	10	2026-02-18	1	0.00170
40_1_3_105	MW-30	Appendix III	Boron	mg/L	20	0	0%	20	2023-03-13	50	3.50
40_1_3_112	MW-30	Appendix III	Fluoride	mg/L	20	0	0%	20	2025-02-25	10	0.570
40_1_3_120	MW-30	Appendix III	pH (field)	su	20	0	0%	20	2023-01-03	NA	6.48
40_1_4_102	MW-30	Appendix IV	Arsenic	mg/L	20	2	10%	18	2025-10-21	1	0.00800
40_1_4_109	MW-30	Appendix IV	Chromium, Total	mg/L	20	0	0%	20	2025-10-21	1	0.0230
40_1_4_110	MW-30	Appendix IV	Cobalt	mg/L	20	0	0%	20	2025-02-25	5	0.0460
40_1_4_113	MW-30	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	20	2025-02-25	10	0.570
40_1_4_116	MW-30	Appendix IV	Lithium	mg/L	20	0	0%	20	2023-03-13	50	0.270
40_1_4_118	MW-30	Appendix IV	Molybdenum	mg/L	20	3	15%	17	2025-10-21	1	0.0320
40_1_4_122	MW-30	Appendix IV	Selenium	mg/L	20	7	35%	13	2025-10-21	1	0.00150
40_1_5_111	MW-30	Part 115	Copper	mg/L	20	14	70%	6	2025-10-21	1	0.0130
40_1_5_114	MW-30	Part 115	Iron	mg/L	20	0	0%	20	2025-04-20	10	17.0
40_1_5_119	MW-30	Part 115	Nickel	mg/L	20	3	15%	17	2025-02-25	5	0.110
40_1_5_128	MW-30	Part 115	Vanadium	mg/L	20	16	80%	4	2025-10-21	1	0.0240
41_1_3_107	MW-31	Appendix III	Calcium	mg/L	20	0	0%	20	2026-02-16	5	330
41_1_3_108	MW-31	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	20	2025-08-12	10	170
41_1_3_124	MW-31	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	20	2026-02-16	50	650
41_1_3_126	MW-31	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	20	2026-02-16	3703704	1500
41_1_4_110	MW-31	Appendix IV	Cobalt	mg/L	20	3	15%	17	2026-02-16	1	0.00110
41_1_4_121	MW-31	Appendix IV	Radium 226 and 228	pCi/L	20	8	40%	12	2023-08-08	1	1.23
41_1_4_122	MW-31	Appendix IV	Selenium	mg/L	20	6	30%	14	2026-02-16	1	0.0380
41_1_5_114	MW-31	Part 115	Iron	mg/L	20	0	0%	20	2026-02-16	1	5.70
41_1_5_119	MW-31	Part 115	Nickel	mg/L	20	10	50%	10	2026-02-16	1	0.640
42_1_3_120	MW-32	Appendix III	pH (field)	su	20	0	0%	20	2026-08-12	NA	7.20

(Table continues on next page)

Table 6: Outliers Identified at the 1% Significance Level, Non-Detects Excluded *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	No. Detects	Date	Dilution	Value
42_1_4_102	MW-32	Appendix IV	Arsenic	mg/L	20	0	0%	20	2024-02-12	1	0.00240
42_1_4_109	MW-32	Appendix IV	Chromium, Total	mg/L	20	0	0%	20	2024-02-12	1	0.00300
42_1_4_110	MW-32	Appendix IV	Cobalt	mg/L	20	0	0%	20	2026-04-21	1	0.00280
42_1_4_117	MW-32	Appendix IV	Mercury	ng/L	20	15	75%	5	2024-04-07	1	1900
42_1_4_122	MW-32	Appendix IV	Selenium	mg/L	20	16	80%	4	2024-02-12	1	0.00100
42_1_5_111	MW-32	Part 115	Copper	mg/L	20	12	60%	8	2024-02-12	1	0.0160
42_1_5_119	MW-32	Part 115	Nickel	mg/L	20	0	0%	20	2024-02-12	1	0.0230
46_1_5_123	MW-36	Part 115	Silver	mg/L	10	1	10%	9	2024-07-17	1	0.000570
47_1_4_115	MW-37	Appendix IV	Lead	mg/L	10	2	20%	8	2025-10-21	1	0.0100
47_1_5_111	MW-37	Part 115	Copper	mg/L	10	0	0%	10	2025-10-21	1	0.0410
48_2_4_103	MW-38	Appendix IV	Barium	mg/L	10	0	0%	10	2026-04-21	5	0.570
48_2_4_110	MW-38	Appendix IV	Cobalt	mg/L	10	0	0%	10	2026-04-21	5	0.00310
48_2_5_114	MW-38	Part 115	Iron	mg/L	10	0	0%	10	2025-10-21	1	3.30
48_2_5_119	MW-38	Part 115	Nickel	mg/L	10	0	0%	10	2026-04-21	5	0.0270

Table 7: Seasonality Tests

						Full										Without Non-Detects									
						Sample Size					p-Value					Sample Size					p-Value				
ID	Well	Constituent Type	Constituent	Unit	% NDs	Winter	Spring	Summer	Fall	Total	Kruskal-Wallis		ANOVA		Log ANOVA		Winter	Spring	Summer	Fall	Total	Kruskal-Wallis		ANOVA		Log ANOVA	
11_2_3_105	MW-01R	Appendix III	Boron	mg/L	0%	5	6	5	4	20	0.007	**	0.001	**	0.008	**	5	6	5	4	20	0.007	**	0.001	**	0.008	**
11_2_3_107	MW-01R	Appendix III	Calcium	mg/L	0%	5	6	5	4	20	0.008	**	0.006	**	0.002	**	5	6	5	4	20	0.008	**	0.006	**	0.002	**
11_2_3_108	MW-01R	Appendix III	Chloride (as Cl)	mg/L	0%	5	6	5	4	20	0.041	*	0.032	*	0.054		5	6	5	4	20	0.041	*	0.032	*	0.054	
11_2_3_112	MW-01R	Appendix III	Fluoride	mg/L	0%	5	6	5	4	20	0.006	**	0.001	**	0.007	**	5	6	5	4	20	0.006	**	0.001	**	0.007	**
11_2_3_120	MW-01R	Appendix III	pH (field)	su	0%	5	6	5	4	20	0.741		0.436		0.431		5	6	5	4	20	0.741		0.436		0.431	
11_2_3_124	MW-01R	Appendix III	Sulfate (as SO4)	mg/L	0%	5	6	5	4	20	0.009	**	0.002	**	0.004	**	5	6	5	4	20	0.009	**	0.002	**	0.004	**
11_2_3_126	MW-01R	Appendix III	Total Dissolved Solids	mg/L	0%	5	6	5	4	20	0.060		0.062		0.064		5	6	5	4	20	0.060		0.062		0.064	
11_2_4_101	MW-01R	Appendix IV	Antimony	mg/L	15%	5	6	5	4	20	0.822		0.399		0.541		3	5	5	4	17	0.948		0.431		0.645	
11_2_4_102	MW-01R	Appendix IV	Arsenic	mg/L	0%	5	6	5	4	20	0.084		0.182		0.089		5	6	5	4	20	0.084		0.182		0.089	
11_2_4_103	MW-01R	Appendix IV	Barium	mg/L	0%	5	6	5	4	20	0.037	*	0.044	*	0.023	*	5	6	5	4	20	0.037	*	0.044	*	0.023	*
11_2_4_104	MW-01R	Appendix IV	Beryllium	mg/L	10%	5	6	5	4	20	0.079		0.039	*	0.142		5	5	5	3	18	0.061		0.033	*	0.053	
11_2_4_106	MW-01R	Appendix IV	Cadmium	mg/L	65%	5	6	5	4	20	0.952		0.631		0.864		2	1	2	2	7	0.185		0.004	**	0.119	
11_2_4_109	MW-01R	Appendix IV	Chromium, Total	mg/L	0%	5	6	5	4	20	0.012	*	0.433		0.125		5	6	5	4	20	0.012	*	0.433		0.125	
11_2_4_110	MW-01R	Appendix IV	Cobalt	mg/L	0%	5	6	5	4	20	0.447		0.647		0.796		5	6	5	4	20	0.447		0.647		0.796	
11_2_4_113	MW-01R	Appendix IV	Fluoride (App IV)	mg/L	0%	5	6	5	4	20	0.006	**	0.001	**	0.007	**	5	6	5	4	20	0.006	**	0.001	**	0.007	**
11_2_4_115	MW-01R	Appendix IV	Lead	mg/L	10%	5	6	5	4	20	0.506		0.919		0.749		4	5	5	4	18	0.409		0.920		0.743	
11_2_4_116	MW-01R	Appendix IV	Lithium	mg/L	0%	5	6	5	4	20	0.009	**	0.004	**	0.022	*	5	6	5	4	20	0.009	**	0.004	**	0.022	*
11_2_4_117	MW-01R	Appendix IV	Mercury	ng/L	80%	5	6	5	4	20	0.816		0.923		0.791		1	1	1	1	4	0.392		NA		NA	
11_2_4_118	MW-01R	Appendix IV	Molybdenum	mg/L	10%	5	6	5	4	20	0.528		0.296		0.319		5	4	5	4	18	0.380		0.281		0.196	
11_2_4_121	MW-01R	Appendix IV	Radium 226 and 228	pCi/L	65%	5	6	5	4	20	0.727		0.754		0.806		2	1	3	1	7	0.414		0.727		0.760	
11_2_4_122	MW-01R	Appendix IV	Selenium	mg/L	0%	5	6	5	4	20	0.547		0.928		0.957		5	6	5	4	20	0.547		0.928		0.957	
11_2_4_125	MW-01R	Appendix IV	Thallium	mg/L	100%	5	6	5	4	20	0.617		0.652		0.652		NA	NA	NA	NA	NA	NA		NA		NA	
11_2_5_111	MW-01R	Part 115	Copper	mg/L	30%	5	6	5	4	20	0.271		0.860		0.735		3	2	5	4	14	0.191		0.214		0.222	
11_2_5_114	MW-01R	Part 115	Iron	mg/L	0%	5	6	5	4	20	0.095		0.084		0.141		5	6	5	4	20	0.095		0.084		0.141	
11_2_5_119	MW-01R	Part 115	Nickel	mg/L	0%	5	6	5	4	20	0.427		0.677		0.700		5	6	5	4	20	0.427		0.677		0.700	
11_2_5_123	MW-01R	Part 115	Silver	mg/L	100%	5	6	5	4	20	0.266		0.278		0.278		NA	NA	NA	NA	NA	NA		NA		NA	
11_2_5_128	MW-01R	Part 115	Vanadium	mg/L	10%	5	6	5	4	20	0.016	*	0.000	***	0.009	**	4	5	5	4	18	0.026	*	0.001	***	0.012	*
11_2_5_129	MW-01R	Part 115	Zinc	mg/L	15%	5	6	5	4	20	0.856		0.843		0.990		5	4	4	4	17	0.987		0.661		0.983	
12_2_3_105	MW-02	Appendix III	Boron	mg/L	0%	5	6	5	4	20	0.567		0.398		0.409		5	6	5	4	20	0.567		0.398		0.409	
12_2_3_107	MW-02	Appendix III	Calcium	mg/L	0%	5	6	5	4	20	0.200		0.148		0.147		5	6	5	4	20	0.200		0.148		0.147	
12_2_3_108	MW-02	Appendix III	Chloride (as Cl)	mg/L	0%	5	6	5	4	20	0.483		0.453		0.452		5	6	5	4	20	0.483		0.453		0.452	
12_2_3_112	MW-02	Appendix III	Fluoride	mg/L	0%	5	6	5	4	20	0.517		0.881		0.956		5	6	5	4	20	0.517		0.881		0.956	
12_2_3_120	MW-02	Appendix III	pH (field)	su	0%	5	6	5	4	20	0.410		0.411		0.413		5	6	5	4	20	0.410		0.411		0.413	
12_2_3_124	MW-02	Appendix III	Sulfate (as SO4)	mg/L	50%	5	6	5	4	20	0.873		0.509		0.741		2	2	3	3	10	0.862		0.312		0.545	
12_2_3_126	MW-02	Appendix III	Total Dissolved Solids	mg/L	0%	5	6	5	4	20	0.283		0.225		0.224		5	6	5	4	20	0.283		0.225		0.224	
12_2_4_101	MW-02	Appendix IV	Antimony	mg/L	15%	5	6	5	4	20	0.344		0.304		0.393		3	5	5	4	17	0.301		0.449		0.413	
12_2_4_102	MW-02	Appendix IV	Arsenic	mg/L	0%	5	6	5	4	20	0.764		0.943		0.762		5	6	5	4	20	0.764		0.943		0.762	
12_2_4_103	MW-02	Appendix IV	Barium	mg/L	0%	5	6	5	4	20	0.219		0.357		0.462		5	6	5	4	20	0.219		0.357		0.462	
12_2_4_104	MW-02	Appendix IV	Beryllium	mg/L	10%	5	6	5	4	20	0.597		0.519		0.586		4	5	5	4	18	0.549		0.520		0.438	

(Table continues on next page)

*** p < 0.001, ** p < 0.01, * p < 0.05

Table 7: Seasonality Tests *(continued)*

						Full								Without Non-Detects							
						Sample Size					p-Value			Sample Size					p-Value		
ID	Well	Constituent Type	Constituent	Unit	% NDs	Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA	Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA
12_2_4_106	MW-02	Appendix IV	Cadmium	mg/L	70%	5	6	5	4	20	0.712	0.637	0.891	3	2	0	1	6	0.252	0.001 **	0.041 *
12_2_4_109	MW-02	Appendix IV	Chromium, Total	mg/L	0%	5	6	5	4	20	0.398	0.602	0.849	5	6	5	4	20	0.398	0.602	0.849
12_2_4_110	MW-02	Appendix IV	Cobalt	mg/L	0%	5	6	5	4	20	0.672	0.793	0.903	5	6	5	4	20	0.672	0.793	0.903
12_2_4_113	MW-02	Appendix IV	Fluoride (App IV)	mg/L	0%	5	6	5	4	20	0.517	0.881	0.956	5	6	5	4	20	0.517	0.881	0.956
12_2_4_115	MW-02	Appendix IV	Lead	mg/L	5%	5	6	5	4	20	0.322	0.379	0.882	4	6	5	4	19	0.088	0.125	0.280
12_2_4_116	MW-02	Appendix IV	Lithium	mg/L	0%	5	6	5	4	20	0.227	0.132	0.154	5	6	5	4	20	0.227	0.132	0.154
12_2_4_117	MW-02	Appendix IV	Mercury	ng/L	70%	5	6	5	4	20	0.844	0.925	0.894	1	2	2	1	6	0.699	0.846	0.871
12_2_4_118	MW-02	Appendix IV	Molybdenum	mg/L	0%	5	6	5	4	20	0.058	0.086	0.061	5	6	5	4	20	0.058	0.086	0.061
12_2_4_121	MW-02	Appendix IV	Radium 226 and 228	pCi/L	32%	4	6	5	4	19	0.208	0.086	0.223	2	4	4	3	13	0.772	0.675	0.833
12_2_4_122	MW-02	Appendix IV	Selenium	mg/L	0%	5	6	5	4	20	0.346	0.381	0.415	5	6	5	4	20	0.346	0.381	0.415
12_2_4_125	MW-02	Appendix IV	Thallium	mg/L	95%	5	6	5	4	20	0.886	0.818	0.927	0	0	0	1	1	NA	NA	NA
12_2_5_111	MW-02	Part 115	Copper	mg/L	0%	5	6	5	4	20	0.735	0.538	0.979	5	6	5	4	20	0.735	0.538	0.979
12_2_5_114	MW-02	Part 115	Iron	mg/L	0%	5	6	5	4	20	0.009 **	0.002 **	0.001 **	5	6	5	4	20	0.009 **	0.002 **	0.001 **
12_2_5_119	MW-02	Part 115	Nickel	mg/L	0%	5	6	5	4	20	0.476	0.293	0.988	5	6	5	4	20	0.476	0.293	0.988
12_2_5_123	MW-02	Part 115	Silver	mg/L	100%	5	6	5	4	20	0.376	0.401	0.401	NA	NA	NA	NA	NA	NA	NA	NA
12_2_5_128	MW-02	Part 115	Vanadium	mg/L	5%	5	6	5	4	20	0.882	0.865	0.821	4	6	5	4	19	0.783	0.806	0.624
12_2_5_129	MW-02	Part 115	Zinc	mg/L	0%	5	6	5	4	20	0.658	0.486	0.596	5	6	5	4	20	0.658	0.486	0.596
13_2_3_105	MW-03	Appendix III	Boron	mg/L	0%	5	6	5	4	20	0.410	0.425	0.418	5	6	5	4	20	0.410	0.425	0.418
13_2_3_107	MW-03	Appendix III	Calcium	mg/L	0%	5	6	5	4	20	0.696	0.696	0.657	5	6	5	4	20	0.696	0.696	0.657
13_2_3_108	MW-03	Appendix III	Chloride (as Cl)	mg/L	0%	5	6	5	4	20	0.492	0.384	0.406	5	6	5	4	20	0.492	0.384	0.406
13_2_3_112	MW-03	Appendix III	Fluoride	mg/L	0%	5	6	5	4	20	0.355	0.454	0.459	5	6	5	4	20	0.355	0.454	0.459
13_2_3_120	MW-03	Appendix III	pH (field)	su	0%	5	6	5	4	20	0.191	0.151	0.153	5	6	5	4	20	0.191	0.151	0.153
13_2_3_124	MW-03	Appendix III	Sulfate (as SO4)	mg/L	0%	5	6	5	4	20	0.149	0.130	0.157	5	6	5	4	20	0.149	0.130	0.157
13_2_3_126	MW-03	Appendix III	Total Dissolved Solids	mg/L	0%	5	6	5	4	20	0.736	0.826	0.822	5	6	5	4	20	0.736	0.826	0.822
13_2_4_101	MW-03	Appendix IV	Antimony	mg/L	70%	5	6	5	4	20	0.211	0.594	0.469	2	3	0	1	6	0.213	0.592	0.475
13_2_4_102	MW-03	Appendix IV	Arsenic	mg/L	0%	5	6	5	4	20	0.353	0.416	0.534	5	6	5	4	20	0.353	0.416	0.534
13_2_4_103	MW-03	Appendix IV	Barium	mg/L	0%	5	6	5	4	20	0.796	0.901	0.821	5	6	5	4	20	0.796	0.901	0.821
13_2_4_104	MW-03	Appendix IV	Beryllium	mg/L	65%	5	6	5	4	20	0.877	0.853	0.944	2	2	2	1	7	0.784	0.529	0.560
13_2_4_106	MW-03	Appendix IV	Cadmium	mg/L	95%	5	6	5	4	20	0.860	0.580	0.760	0	0	0	1	1	NA	NA	NA
13_2_4_109	MW-03	Appendix IV	Chromium, Total	mg/L	0%	5	6	5	4	20	0.522	0.592	0.594	5	6	5	4	20	0.522	0.592	0.594
13_2_4_110	MW-03	Appendix IV	Cobalt	mg/L	0%	5	6	5	4	20	0.231	0.367	0.293	5	6	5	4	20	0.231	0.367	0.293
13_2_4_113	MW-03	Appendix IV	Fluoride (App IV)	mg/L	0%	5	6	5	4	20	0.355	0.454	0.459	5	6	5	4	20	0.355	0.454	0.459
13_2_4_115	MW-03	Appendix IV	Lead	mg/L	95%	5	6	5	4	20	0.990	0.773	0.981	0	0	0	1	1	NA	NA	NA
13_2_4_116	MW-03	Appendix IV	Lithium	mg/L	0%	5	6	5	4	20	0.853	0.791	0.818	5	6	5	4	20	0.853	0.791	0.818
13_2_4_117	MW-03	Appendix IV	Mercury	ng/L	75%	5	6	5	4	20	0.793	0.856	0.911	1	2	1	1	5	0.284	0.001 ***	0.046 *
13_2_4_118	MW-03	Appendix IV	Molybdenum	mg/L	70%	5	6	5	4	20	0.213	0.362	0.197	2	2	0	2	6	0.180	0.120	0.201
13_2_4_121	MW-03	Appendix IV	Radium 226 and 228	pCi/L	16%	5	5	5	4	19	0.532	0.475	0.490	3	5	5	3	16	0.298	0.320	0.264
13_2_4_122	MW-03	Appendix IV	Selenium	mg/L	15%	5	6	5	4	20	0.360	0.327	0.349	3	5	5	4	17	0.385	0.342	0.377
13_2_4_125	MW-03	Appendix IV	Thallium	mg/L	95%	5	6	5	4	20	0.900	0.883	0.918	0	0	0	1	1	NA	NA	NA

(Table continues on next page)

*** p < 0.001, ** p < 0.01, * p < 0.05

Table 7: Seasonality Tests *(continued)*

						Full								Without Non-Detects							
						Sample Size					p-Value			Sample Size					p-Value		
ID	Well	Constituent Type	Constituent	Unit	% NDs	Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA	Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA
13_2_5_111	MW-03	Part 115	Copper	mg/L	45%	5	6	5	4	20	0.827	0.695	0.811	1	3	5	2	11	0.177	0.047 *	0.053
13_2_5_114	MW-03	Part 115	Iron	mg/L	0%	5	6	5	4	20	0.015 *	0.163	0.007 **	5	6	5	4	20	0.015 *	0.163	0.007 **
13_2_5_119	MW-03	Part 115	Nickel	mg/L	5%	5	6	5	4	20	0.895	0.354	0.427	4	6	5	4	19	0.943	0.374	0.635
13_2_5_123	MW-03	Part 115	Silver	mg/L	100%	5	6	5	4	20	0.266	0.278	0.278	NA	NA	NA	NA	NA	NA	NA	NA
13_2_5_128	MW-03	Part 115	Vanadium	mg/L	45%	5	6	5	4	20	0.995	0.952	0.983	2	3	3	3	11	0.312	0.381	0.413
13_2_5_129	MW-03	Part 115	Zinc	mg/L	45%	5	6	5	4	20	0.982	0.990	0.981	1	3	3	4	11	0.437	0.575	0.747
14_2_3_105	MW-04	Appendix III	Boron	mg/L	0%	5	6	5	4	20	0.452	0.716	0.652	5	6	5	4	20	0.452	0.716	0.652
14_2_3_107	MW-04	Appendix III	Calcium	mg/L	0%	5	6	5	4	20	0.922	0.726	0.789	5	6	5	4	20	0.922	0.726	0.789
14_2_3_108	MW-04	Appendix III	Chloride (as Cl)	mg/L	0%	5	6	5	4	20	0.960	0.949	0.996	5	6	5	4	20	0.960	0.949	0.996
14_2_3_112	MW-04	Appendix III	Fluoride	mg/L	0%	5	6	5	4	20	0.718	0.821	0.675	5	6	5	4	20	0.718	0.821	0.675
14_2_3_120	MW-04	Appendix III	pH (field)	su	0%	5	6	5	4	20	0.055	0.086	0.090	5	6	5	4	20	0.055	0.086	0.090
14_2_3_124	MW-04	Appendix III	Sulfate (as SO4)	mg/L	0%	5	6	5	4	20	0.704	0.434	0.379	5	6	5	4	20	0.704	0.434	0.379
14_2_3_126	MW-04	Appendix III	Total Dissolved Solids	mg/L	0%	5	6	5	4	20	0.706	0.705	0.686	5	6	5	4	20	0.706	0.705	0.686
14_2_4_101	MW-04	Appendix IV	Antimony	mg/L	70%	5	6	5	4	20	0.888	0.829	0.912	1	2	1	2	6	0.543	0.530	0.643
14_2_4_102	MW-04	Appendix IV	Arsenic	mg/L	0%	5	6	5	4	20	0.684	0.233	0.375	5	6	5	4	20	0.684	0.233	0.375
14_2_4_103	MW-04	Appendix IV	Barium	mg/L	0%	5	6	5	4	20	0.512	0.302	0.314	5	6	5	4	20	0.512	0.302	0.314
14_2_4_104	MW-04	Appendix IV	Beryllium	mg/L	85%	5	6	5	4	20	0.839	0.796	0.784	1	0	1	1	3	0.368	NA	NA
14_2_4_106	MW-04	Appendix IV	Cadmium	mg/L	100%	5	6	5	4	20	0.657	0.525	0.648	NA	NA	NA	NA	NA	NA	NA	NA
14_2_4_109	MW-04	Appendix IV	Chromium, Total	mg/L	0%	5	6	5	4	20	0.844	0.776	0.767	5	6	5	4	20	0.844	0.776	0.767
14_2_4_110	MW-04	Appendix IV	Cobalt	mg/L	0%	5	6	5	4	20	0.597	0.412	0.458	5	6	5	4	20	0.597	0.412	0.458
14_2_4_113	MW-04	Appendix IV	Fluoride (App IV)	mg/L	0%	5	6	5	4	20	0.718	0.821	0.675	5	6	5	4	20	0.718	0.821	0.675
14_2_4_115	MW-04	Appendix IV	Lead	mg/L	80%	5	6	5	4	20	0.878	0.764	0.833	1	2	0	1	4	0.407	0.406	0.540
14_2_4_116	MW-04	Appendix IV	Lithium	mg/L	0%	5	6	5	4	20	0.069	0.032 *	0.030 *	5	6	5	4	20	0.069	0.032 *	0.030 *
14_2_4_117	MW-04	Appendix IV	Mercury	ng/L	80%	5	6	5	4	20	0.825	0.926	0.862	1	1	1	1	4	0.392	NA	NA
14_2_4_118	MW-04	Appendix IV	Molybdenum	mg/L	10%	5	6	5	4	20	0.426	0.719	0.614	4	5	5	4	18	0.489	0.685	0.664
14_2_4_121	MW-04	Appendix IV	Radium 226 and 228	pCi/L	35%	5	6	5	4	20	0.972	0.978	0.967	3	4	3	3	13	0.756	0.836	0.742
14_2_4_122	MW-04	Appendix IV	Selenium	mg/L	25%	5	6	5	4	20	0.242	0.769	0.722	4	3	5	3	15	0.398	0.449	0.542
14_2_4_125	MW-04	Appendix IV	Thallium	mg/L	100%	5	6	5	4	20	0.740	0.771	0.771	NA	NA	NA	NA	NA	NA	NA	NA
14_2_5_111	MW-04	Part 115	Copper	mg/L	70%	5	6	5	4	20	0.286	0.643	0.587	1	3	0	2	6	0.953	0.875	0.835
14_2_5_114	MW-04	Part 115	Iron	mg/L	0%	5	6	5	4	20	0.418	0.947	0.884	5	6	5	4	20	0.418	0.947	0.884
14_2_5_119	MW-04	Part 115	Nickel	mg/L	0%	5	6	5	4	20	0.306	0.470	0.550	5	6	5	4	20	0.306	0.470	0.550
14_2_5_123	MW-04	Part 115	Silver	mg/L	100%	5	6	5	4	20	0.266	0.278	0.278	NA	NA	NA	NA	NA	NA	NA	NA
14_2_5_128	MW-04	Part 115	Vanadium	mg/L	50%	5	6	5	4	20	0.598	0.675	0.680	2	3	3	2	10	0.670	0.678	0.684
14_2_5_129	MW-04	Part 115	Zinc	mg/L	50%	5	6	5	4	20	0.418	0.984	0.732	1	3	2	4	10	0.380	0.382	0.602
16_1_3_105	MW-06	Appendix III	Boron	mg/L	0%	5	6	5	4	20	0.005 **	0.001 ***	0.002 **	5	6	5	4	20	0.005 **	0.001 ***	0.002 **
16_1_3_107	MW-06	Appendix III	Calcium	mg/L	0%	5	6	5	4	20	0.638	0.478	0.540	5	6	5	4	20	0.638	0.478	0.540
16_1_3_108	MW-06	Appendix III	Chloride (as Cl)	mg/L	0%	5	6	5	4	20	0.285	0.222	0.301	5	6	5	4	20	0.285	0.222	0.301
16_1_3_112	MW-06	Appendix III	Fluoride	mg/L	0%	5	6	5	4	20	0.181	0.132	0.143	5	6	5	4	20	0.181	0.132	0.143
16_1_3_120	MW-06	Appendix III	pH (field)	su	0%	5	6	5	4	20	0.772	0.553	0.541	5	6	5	4	20	0.772	0.553	0.541

(Table continues on next page)

*** p < 0.001, ** p < 0.01, * p < 0.05

Table 7: Seasonality Tests *(continued)*

						Full								Without Non-Detects							
						Sample Size					p-Value			Sample Size					p-Value		
ID	Well	Constituent Type	Constituent	Unit	% NDs	Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA	Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA
16_1_3_124	MW-06	Appendix III	Sulfate (as SO4)	mg/L	10%	5	6	5	4	20	0.627	0.711	0.464	5	6	4	3	18	0.915	0.745	0.771
16_1_3_126	MW-06	Appendix III	Total Dissolved Solids	mg/L	0%	5	6	5	4	20	0.844	0.787	0.745	5	6	5	4	20	0.844	0.787	0.745
16_1_4_101	MW-06	Appendix IV	Antimony	mg/L	85%	5	6	5	4	20	0.541	0.301	0.451	0	2	0	1	3	0.221	0.200	0.110
16_1_4_102	MW-06	Appendix IV	Arsenic	mg/L	0%	5	6	5	4	20	0.036 *	0.006 **	0.009 **	5	6	5	4	20	0.036 *	0.006 **	0.009 **
16_1_4_103	MW-06	Appendix IV	Barium	mg/L	0%	5	6	5	4	20	0.139	0.401	0.449	5	6	5	4	20	0.139	0.401	0.449
16_1_4_104	MW-06	Appendix IV	Beryllium	mg/L	85%	5	6	5	4	20	1.000	0.618	0.684	2	1	0	0	3	0.221	0.012 *	0.030 *
16_1_4_106	MW-06	Appendix IV	Cadmium	mg/L	100%	5	6	5	4	20	0.657	0.525	0.648	NA	NA	NA	NA	NA	NA	NA	NA
16_1_4_109	MW-06	Appendix IV	Chromium, Total	mg/L	0%	5	6	5	4	20	0.531	0.955	0.868	5	6	5	4	20	0.531	0.955	0.868
16_1_4_110	MW-06	Appendix IV	Cobalt	mg/L	0%	5	6	5	4	20	0.848	0.543	0.619	5	6	5	4	20	0.848	0.543	0.619
16_1_4_113	MW-06	Appendix IV	Fluoride (App IV)	mg/L	0%	5	6	5	4	20	0.181	0.132	0.143	5	6	5	4	20	0.181	0.132	0.143
16_1_4_115	MW-06	Appendix IV	Lead	mg/L	50%	5	6	5	4	20	0.542	0.439	0.483	3	1	3	3	10	0.392	0.415	0.483
16_1_4_116	MW-06	Appendix IV	Lithium	mg/L	0%	5	6	5	4	20	0.270	0.317	0.234	5	6	5	4	20	0.270	0.317	0.234
16_1_4_117	MW-06	Appendix IV	Mercury	ng/L	75%	5	6	5	4	20	0.849	0.926	0.881	1	2	1	1	5	0.362	0.450	0.386
16_1_4_118	MW-06	Appendix IV	Molybdenum	mg/L	50%	5	6	5	4	20	0.721	0.237	0.331	2	2	3	3	10	0.943	0.313	0.461
16_1_4_121	MW-06	Appendix IV	Radium 226 and 228	pCi/L	20%	5	6	5	4	20	0.149	0.192	0.149	4	4	4	4	16	0.160	0.194	0.158
16_1_4_122	MW-06	Appendix IV	Selenium	mg/L	25%	5	6	5	4	20	0.309	0.559	0.499	3	4	5	3	15	0.402	0.485	0.488
16_1_4_125	MW-06	Appendix IV	Thallium	mg/L	95%	5	6	5	4	20	0.287	0.211	0.182	0	1	0	0	1	NA	NA	NA
16_1_5_111	MW-06	Part 115	Copper	mg/L	65%	5	6	5	4	20	0.465	0.623	0.787	2	1	3	1	7	0.206	0.000 ***	0.005 **
16_1_5_114	MW-06	Part 115	Iron	mg/L	0%	5	6	5	4	20	0.431	0.411	0.382	5	6	5	4	20	0.431	0.411	0.382
16_1_5_119	MW-06	Part 115	Nickel	mg/L	30%	5	6	5	4	20	0.327	0.806	0.891	4	2	4	4	14	0.396	0.105	0.137
16_1_5_123	MW-06	Part 115	Silver	mg/L	95%	5	6	5	4	20	0.287	0.176	0.161	0	1	0	0	1	NA	NA	NA
16_1_5_128	MW-06	Part 115	Vanadium	mg/L	70%	5	6	5	4	20	0.674	0.513	0.464	1	1	3	1	6	0.378	0.005 **	0.044 *
16_1_5_129	MW-06	Part 115	Zinc	mg/L	10%	5	6	5	4	20	0.660	0.950	0.867	4	5	5	4	18	0.812	0.966	0.951
17_1_3_105	MW-07	Appendix III	Boron	mg/L	0%	5	6	5	4	20	0.095	0.161	0.187	5	6	5	4	20	0.095	0.161	0.187
17_1_3_107	MW-07	Appendix III	Calcium	mg/L	0%	5	6	5	4	20	0.939	0.956	0.958	5	6	5	4	20	0.939	0.956	0.958
17_1_3_108	MW-07	Appendix III	Chloride (as Cl)	mg/L	0%	5	6	5	4	20	0.709	0.834	0.806	5	6	5	4	20	0.709	0.834	0.806
17_1_3_112	MW-07	Appendix III	Fluoride	mg/L	20%	5	6	5	4	20	0.845	0.711	0.863	4	5	4	3	16	0.401	0.286	0.299
17_1_3_120	MW-07	Appendix III	pH (field)	su	0%	5	6	5	4	20	0.848	0.665	0.668	5	6	5	4	20	0.848	0.665	0.668
17_1_3_124	MW-07	Appendix III	Sulfate (as SO4)	mg/L	0%	5	6	5	4	20	0.013 *	0.002 **	0.001 **	5	6	5	4	20	0.013 *	0.002 **	0.001 **
17_1_3_126	MW-07	Appendix III	Total Dissolved Solids	mg/L	0%	5	6	5	4	20	0.289	0.570	0.604	5	6	5	4	20	0.289	0.570	0.604
17_1_4_101	MW-07	Appendix IV	Antimony	mg/L	95%	5	6	5	4	20	0.495	0.525	0.523	0	1	0	0	1	NA	NA	NA
17_1_4_102	MW-07	Appendix IV	Arsenic	mg/L	0%	5	6	5	4	20	0.508	0.355	0.429	5	6	5	4	20	0.508	0.355	0.429
17_1_4_103	MW-07	Appendix IV	Barium	mg/L	0%	5	6	5	4	20	0.194	0.168	0.159	5	6	5	4	20	0.194	0.168	0.159
17_1_4_104	MW-07	Appendix IV	Beryllium	mg/L	75%	5	6	5	4	20	0.828	0.776	0.782	2	0	1	2	5	0.206	0.557	0.517
17_1_4_106	MW-07	Appendix IV	Cadmium	mg/L	100%	5	6	5	4	20	0.500	0.534	0.534	NA	NA	NA	NA	NA	NA	NA	NA
17_1_4_109	MW-07	Appendix IV	Chromium, Total	mg/L	0%	5	6	5	4	20	0.233	0.325	0.291	5	6	5	4	20	0.233	0.325	0.291
17_1_4_110	MW-07	Appendix IV	Cobalt	mg/L	0%	5	6	5	4	20	0.742	0.441	0.469	5	6	5	4	20	0.742	0.441	0.469
17_1_4_113	MW-07	Appendix IV	Fluoride (App IV)	mg/L	20%	5	6	5	4	20	0.845	0.711	0.863	4	5	4	3	16	0.401	0.286	0.299
17_1_4_115	MW-07	Appendix IV	Lead	mg/L	100%	5	6	5	4	20	0.500	0.534	0.534	NA	NA	NA	NA	NA	NA	NA	NA

(Table continues on next page)

*** p < 0.001, ** p < 0.01, * p < 0.05

Table 7: Seasonality Tests *(continued)*

						Full								Without Non-Detects							
						Sample Size					p-Value			Sample Size					p-Value		
ID	Well	Constituent Type	Constituent	Unit	% NDs	Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA	Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA
17_1_4_116	MW-07	Appendix IV	Lithium	mg/L	0%	5	6	5	4	20	0.278	0.306	0.341	5	6	5	4	20	0.278	0.306	0.341
17_1_4_117	MW-07	Appendix IV	Mercury	ng/L	95%	5	6	5	4	20	0.950	0.927	0.935	0	0	1	0	1	NA	NA	NA
17_1_4_118	MW-07	Appendix IV	Molybdenum	mg/L	100%	5	6	5	4	20	0.673	0.577	0.599	NA	NA	NA	NA	NA	NA	NA	NA
17_1_4_121	MW-07	Appendix IV	Radium 226 and 228	pCi/L	10%	5	6	5	4	20	0.999	0.777	0.953	5	5	4	4	18	0.974	0.600	0.836
17_1_4_122	MW-07	Appendix IV	Selenium	mg/L	45%	5	6	5	4	20	0.051	0.114	0.090	3	3	3	2	11	0.058	0.220	0.145
17_1_4_125	MW-07	Appendix IV	Thallium	mg/L	100%	5	6	5	4	20	NA	0.273	NA	NA	NA	NA	NA	NA	NA	NA	NA
17_1_5_111	MW-07	Part 115	Copper	mg/L	75%	5	6	5	4	20	0.951	0.544	0.626	1	2	1	1	5	0.284	0.026 *	0.043 *
17_1_5_114	MW-07	Part 115	Iron	mg/L	0%	5	6	5	4	20	0.692	0.678	0.661	5	6	5	4	20	0.692	0.678	0.661
17_1_5_119	MW-07	Part 115	Nickel	mg/L	70%	5	6	5	4	20	0.702	0.864	0.865	1	1	2	2	6	0.412	0.662	0.592
17_1_5_123	MW-07	Part 115	Silver	mg/L	100%	5	6	5	4	20	NA	0.273	0.273	NA	NA	NA	NA	NA	NA	NA	NA
17_1_5_128	MW-07	Part 115	Vanadium	mg/L	60%	5	6	5	4	20	0.099	0.106	0.104	1	2	3	2	8	0.143	0.096	0.095
17_1_5_129	MW-07	Part 115	Zinc	mg/L	50%	5	6	5	4	20	0.991	0.973	0.891	2	2	2	4	10	0.337	0.470	0.620
18_1_3_105	MW-08	Appendix III	Boron	mg/L	0%	6	6	5	3	20	0.278	0.407	0.351	6	6	5	3	20	0.278	0.407	0.351
18_1_3_107	MW-08	Appendix III	Calcium	mg/L	0%	6	6	5	3	20	0.736	0.748	0.767	6	6	5	3	20	0.736	0.748	0.767
18_1_3_108	MW-08	Appendix III	Chloride (as Cl)	mg/L	0%	6	6	5	3	20	0.346	0.109	0.127	6	6	5	3	20	0.346	0.109	0.127
18_1_3_112	MW-08	Appendix III	Fluoride	mg/L	0%	6	6	5	3	20	0.512	0.320	0.230	6	6	5	3	20	0.512	0.320	0.230
18_1_3_120	MW-08	Appendix III	pH (field)	su	0%	6	6	5	3	20	0.082	0.487	0.504	6	6	5	3	20	0.082	0.487	0.504
18_1_3_124	MW-08	Appendix III	Sulfate (as SO4)	mg/L	25%	6	6	5	3	20	0.598	0.623	0.641	5	5	2	3	15	0.340	0.628	0.288
18_1_3_126	MW-08	Appendix III	Total Dissolved Solids	mg/L	0%	6	6	5	3	20	0.170	0.119	0.177	6	6	5	3	20	0.170	0.119	0.177
18_1_4_101	MW-08	Appendix IV	Antimony	mg/L	60%	6	6	5	3	20	0.856	0.601	0.692	4	2	1	1	8	0.505	0.480	0.606
18_1_4_102	MW-08	Appendix IV	Arsenic	mg/L	0%	6	6	5	3	20	0.516	0.701	0.386	6	6	5	3	20	0.516	0.701	0.386
18_1_4_103	MW-08	Appendix IV	Barium	mg/L	0%	6	6	5	3	20	0.207	0.156	0.155	6	6	5	3	20	0.207	0.156	0.155
18_1_4_104	MW-08	Appendix IV	Beryllium	mg/L	95%	6	6	5	3	20	0.894	0.902	0.908	1	0	0	0	1	NA	NA	NA
18_1_4_106	MW-08	Appendix IV	Cadmium	mg/L	95%	6	6	5	3	20	0.496	0.541	0.376	1	0	0	0	1	NA	NA	NA
18_1_4_109	MW-08	Appendix IV	Chromium, Total	mg/L	0%	6	6	5	3	20	0.469	0.533	0.512	6	6	5	3	20	0.469	0.533	0.512
18_1_4_110	MW-08	Appendix IV	Cobalt	mg/L	0%	6	6	5	3	20	0.778	0.738	0.728	6	6	5	3	20	0.778	0.738	0.728
18_1_4_113	MW-08	Appendix IV	Fluoride (App IV)	mg/L	0%	6	6	5	3	20	0.512	0.320	0.230	6	6	5	3	20	0.512	0.320	0.230
18_1_4_115	MW-08	Appendix IV	Lead	mg/L	60%	6	6	5	3	20	0.498	0.226	0.559	3	3	1	1	8	0.445	0.010 **	0.277
18_1_4_116	MW-08	Appendix IV	Lithium	mg/L	0%	6	6	5	3	20	0.730	0.704	0.745	6	6	5	3	20	0.730	0.704	0.745
18_1_4_117	MW-08	Appendix IV	Mercury	ng/L	90%	6	6	5	3	20	0.897	0.881	0.910	0	1	1	0	2	0.317	NA	NA
18_1_4_118	MW-08	Appendix IV	Molybdenum	mg/L	10%	6	6	5	3	20	0.005 **	0.004 **	0.000 ***	6	6	3	3	18	0.020 *	0.025 *	0.001 ***
18_1_4_121	MW-08	Appendix IV	Radium 226 and 228	pCi/L	25%	6	6	5	3	20	0.206	0.784	0.554	3	6	4	2	15	0.501	0.818	0.757
18_1_4_122	MW-08	Appendix IV	Selenium	mg/L	35%	6	6	5	3	20	0.045 *	0.014 *	0.017 *	3	3	4	3	13	0.419	0.083	0.132
18_1_4_125	MW-08	Appendix IV	Thallium	mg/L	95%	6	6	5	3	20	0.506	0.540	0.540	1	0	0	0	1	NA	NA	NA
18_1_5_111	MW-08	Part 115	Copper	mg/L	30%	6	6	5	3	20	0.940	0.777	0.868	4	5	3	2	14	0.569	0.518	0.551
18_1_5_114	MW-08	Part 115	Iron	mg/L	0%	6	6	5	3	20	0.115	0.100	0.251	6	6	5	3	20	0.115	0.100	0.251
18_1_5_119	MW-08	Part 115	Nickel	mg/L	0%	6	6	5	3	20	0.911	0.231	0.623	6	6	5	3	20	0.911	0.231	0.623
18_1_5_123	MW-08	Part 115	Silver	mg/L	100%	6	6	5	3	20	NA	0.540	0.540	NA	NA	NA	NA	NA	NA	NA	NA
18_1_5_128	MW-08	Part 115	Vanadium	mg/L	85%	6	6	5	3	20	0.719	0.676	0.742	1	0	1	1	3	0.368	NA	NA

(Table continues on next page)

*** p < 0.001, ** p < 0.01, * p < 0.05

Table 7: Seasonality Tests *(continued)*

						Full								Without Non-Detects							
						Sample Size					p-Value			Sample Size					p-Value		
ID	Well	Constituent Type	Constituent	Unit	% NDs	Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA	Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA
18_1_5_129	MW-08	Part 115	Zinc	mg/L	15%	6	6	5	3	20	0.901	0.892	0.990	4	6	4	3	17	0.535	0.921	0.860
19_2_3_105	MW-09	Appendix III	Boron	mg/L	0%	5	6	5	4	20	0.033 *	0.152	0.262	5	6	5	4	20	0.033 *	0.152	0.262
19_2_3_107	MW-09	Appendix III	Calcium	mg/L	0%	5	6	5	4	20	0.474	0.352	0.291	5	6	5	4	20	0.474	0.352	0.291
19_2_3_108	MW-09	Appendix III	Chloride (as Cl)	mg/L	0%	5	6	5	4	20	0.881	0.890	0.937	5	6	5	4	20	0.881	0.890	0.937
19_2_3_112	MW-09	Appendix III	Fluoride	mg/L	0%	5	6	5	4	20	0.513	0.753	0.802	5	6	5	4	20	0.513	0.753	0.802
19_2_3_120	MW-09	Appendix III	pH (field)	su	0%	5	6	5	4	20	0.339	0.234	0.239	5	6	5	4	20	0.339	0.234	0.239
19_2_3_124	MW-09	Appendix III	Sulfate (as SO4)	mg/L	0%	5	6	5	4	20	0.248	0.144	0.091	5	6	5	4	20	0.248	0.144	0.091
19_2_3_126	MW-09	Appendix III	Total Dissolved Solids	mg/L	0%	5	6	5	4	20	0.310	0.262	0.222	5	6	5	4	20	0.310	0.262	0.222
19_2_4_101	MW-09	Appendix IV	Antimony	mg/L	60%	5	6	5	4	20	0.407	0.285	0.294	2	3	2	1	8	0.324	0.564	0.414
19_2_4_102	MW-09	Appendix IV	Arsenic	mg/L	0%	5	6	5	4	20	0.185	0.286	0.219	5	6	5	4	20	0.185	0.286	0.219
19_2_4_103	MW-09	Appendix IV	Barium	mg/L	0%	5	6	5	4	20	0.458	0.412	0.517	5	6	5	4	20	0.458	0.412	0.517
19_2_4_104	MW-09	Appendix IV	Beryllium	mg/L	75%	5	6	5	4	20	0.952	0.840	0.911	2	1	1	1	5	0.362	0.876	0.849
19_2_4_106	MW-09	Appendix IV	Cadmium	mg/L	95%	5	6	5	4	20	0.834	0.340	0.704	1	0	0	0	1	NA	NA	NA
19_2_4_109	MW-09	Appendix IV	Chromium, Total	mg/L	0%	5	6	5	4	20	0.735	0.760	0.652	5	6	5	4	20	0.735	0.760	0.652
19_2_4_110	MW-09	Appendix IV	Cobalt	mg/L	0%	5	6	5	4	20	0.046 *	0.380	0.079	5	6	5	4	20	0.046 *	0.380	0.079
19_2_4_113	MW-09	Appendix IV	Fluoride (App IV)	mg/L	0%	5	6	5	4	20	0.513	0.753	0.802	5	6	5	4	20	0.513	0.753	0.802
19_2_4_115	MW-09	Appendix IV	Lead	mg/L	85%	5	6	5	4	20	0.379	0.519	0.480	1	1	1	0	3	0.368	NA	NA
19_2_4_116	MW-09	Appendix IV	Lithium	mg/L	0%	5	6	5	4	20	0.114	0.587	0.503	5	6	5	4	20	0.114	0.587	0.503
19_2_4_117	MW-09	Appendix IV	Mercury	ng/L	70%	5	6	5	4	20	0.929	0.543	0.932	1	2	2	1	6	0.194	0.444	0.306
19_2_4_118	MW-09	Appendix IV	Molybdenum	mg/L	0%	5	6	5	4	20	0.165	0.322	0.537	5	6	5	4	20	0.165	0.322	0.537
19_2_4_121	MW-09	Appendix IV	Radium 226 and 228	pCi/L	90%	5	6	5	4	20	0.999	0.968	0.995	0	0	0	2	2	NA	NA	NA
19_2_4_122	MW-09	Appendix IV	Selenium	mg/L	10%	5	6	5	4	20	0.940	0.446	0.623	4	5	5	4	18	0.833	0.334	0.453
19_2_4_125	MW-09	Appendix IV	Thallium	mg/L	100%	5	6	5	4	20	0.583	0.618	0.618	NA	NA	NA	NA	NA	NA	NA	NA
19_2_5_111	MW-09	Part 115	Copper	mg/L	55%	5	6	5	4	20	0.760	0.683	0.621	2	2	3	2	9	0.276	0.594	0.545
19_2_5_114	MW-09	Part 115	Iron	mg/L	0%	5	6	5	4	20	0.030 *	0.042 *	0.091	5	6	5	4	20	0.030 *	0.042 *	0.091
19_2_5_119	MW-09	Part 115	Nickel	mg/L	0%	5	6	5	4	20	0.483	0.394	0.494	5	6	5	4	20	0.483	0.394	0.494
19_2_5_123	MW-09	Part 115	Silver	mg/L	100%	5	6	5	4	20	0.376	0.401	0.401	NA	NA	NA	NA	NA	NA	NA	NA
19_2_5_128	MW-09	Part 115	Vanadium	mg/L	75%	5	6	5	4	20	0.512	0.629	0.645	1	1	2	1	5	0.317	0.519	0.431
19_2_5_129	MW-09	Part 115	Zinc	mg/L	40%	5	6	5	4	20	0.907	0.515	0.923	3	3	3	3	12	0.764	0.499	0.837
20_3_3_105	MW-10	Appendix III	Boron	mg/L	0%	5	6	5	4	20	0.029 *	0.024 *	0.041 *	5	6	5	4	20	0.029 *	0.024 *	0.041 *
20_3_3_107	MW-10	Appendix III	Calcium	mg/L	0%	5	6	5	4	20	0.389	0.537	0.523	5	6	5	4	20	0.389	0.537	0.523
20_3_3_108	MW-10	Appendix III	Chloride (as Cl)	mg/L	0%	5	6	5	4	20	0.029 *	0.016 *	0.015 *	5	6	5	4	20	0.029 *	0.016 *	0.015 *
20_3_3_112	MW-10	Appendix III	Fluoride	mg/L	0%	5	6	5	4	20	0.242	0.198	0.219	5	6	5	4	20	0.242	0.198	0.219
20_3_3_120	MW-10	Appendix III	pH (field)	su	0%	5	6	5	4	20	0.058	0.052	0.053	5	6	5	4	20	0.058	0.052	0.053
20_3_3_124	MW-10	Appendix III	Sulfate (as SO4)	mg/L	0%	5	6	5	4	20	0.276	0.489	0.166	5	6	5	4	20	0.276	0.489	0.166
20_3_3_126	MW-10	Appendix III	Total Dissolved Solids	mg/L	0%	5	6	5	4	20	0.773	0.784	0.807	5	6	5	4	20	0.773	0.784	0.807
20_3_4_101	MW-10	Appendix IV	Antimony	mg/L	75%	5	6	5	4	20	0.970	0.544	0.815	0	1	3	1	5	0.186	0.002 **	0.005 **
20_3_4_102	MW-10	Appendix IV	Arsenic	mg/L	0%	5	6	5	4	20	0.022 *	0.006 **	0.007 **	5	6	5	4	20	0.022 *	0.006 **	0.007 **
20_3_4_103	MW-10	Appendix IV	Barium	mg/L	0%	5	6	5	4	20	0.205	0.272	0.204	5	6	5	4	20	0.205	0.272	0.204

(Table continues on next page)

*** p < 0.001, ** p < 0.01, * p < 0.05

Table 7: Seasonality Tests *(continued)*

						Full								Without Non-Detects							
						Sample Size					p-Value			Sample Size					p-Value		
ID	Well	Constituent Type	Constituent	Unit	% NDs	Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA	Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA
20_3_4_104	MW-10	Appendix IV	Beryllium	mg/L	50%	5	6	5	4	20	0.136	0.269	0.153	1	3	3	3	10	0.306	0.610	0.493
20_3_4_106	MW-10	Appendix IV	Cadmium	mg/L	100%	5	6	5	4	20	0.657	0.525	0.648	NA	NA	NA	NA	NA	NA	NA	NA
20_3_4_109	MW-10	Appendix IV	Chromium, Total	mg/L	0%	5	6	5	4	20	0.260	0.094	0.170	5	6	5	4	20	0.260	0.094	0.170
20_3_4_110	MW-10	Appendix IV	Cobalt	mg/L	5%	5	6	5	4	20	0.259	0.608	0.418	4	6	5	4	19	0.362	0.765	0.622
20_3_4_113	MW-10	Appendix IV	Fluoride (App IV)	mg/L	0%	5	6	5	4	20	0.242	0.198	0.219	5	6	5	4	20	0.242	0.198	0.219
20_3_4_115	MW-10	Appendix IV	Lead	mg/L	85%	5	6	5	4	20	0.954	0.574	0.837	0	0	2	1	3	1.000	0.864	0.935
20_3_4_116	MW-10	Appendix IV	Lithium	mg/L	0%	5	6	5	4	20	0.231	0.320	0.184	5	6	5	4	20	0.231	0.320	0.184
20_3_4_117	MW-10	Appendix IV	Mercury	ng/L	85%	5	6	5	4	20	0.947	0.600	0.954	1	1	1	0	3	0.368	NA	NA
20_3_4_118	MW-10	Appendix IV	Molybdenum	mg/L	0%	5	6	5	4	20	0.501	0.473	0.271	5	6	5	4	20	0.501	0.473	0.271
20_3_4_121	MW-10	Appendix IV	Radium 226 and 228	pCi/L	75%	5	6	5	4	20	0.290	0.474	0.469	2	0	2	1	5	0.165	0.242	0.194
20_3_4_122	MW-10	Appendix IV	Selenium	mg/L	5%	5	6	5	4	20	0.338	0.875	0.844	5	5	5	4	19	0.432	0.954	0.958
20_3_4_125	MW-10	Appendix IV	Thallium	mg/L	100%	5	6	5	4	20	0.784	0.772	0.772	NA	NA	NA	NA	NA	NA	NA	NA
20_3_5_111	MW-10	Part 115	Copper	mg/L	80%	5	6	5	4	20	0.451	0.782	0.751	0	1	1	2	4	0.259	0.095	0.167
20_3_5_114	MW-10	Part 115	Iron	mg/L	0%	5	6	5	4	20	0.019 *	0.011 *	0.014 *	5	6	5	4	20	0.019 *	0.011 *	0.014 *
20_3_5_119	MW-10	Part 115	Nickel	mg/L	35%	5	6	5	4	20	0.389	0.757	0.668	2	3	4	4	13	0.545	0.726	0.733
20_3_5_123	MW-10	Part 115	Silver	mg/L	100%	5	6	5	4	20	0.451	0.279	0.281	NA	NA	NA	NA	NA	NA	NA	NA
20_3_5_128	MW-10	Part 115	Vanadium	mg/L	60%	5	6	5	4	20	0.081	0.225	0.182	1	2	3	2	8	0.561	0.503	0.427
20_3_5_129	MW-10	Part 115	Zinc	mg/L	35%	5	6	5	4	20	0.428	0.973	0.891	2	3	4	4	13	0.830	0.546	0.912
21_2_3_105	MW-11	Appendix III	Boron	mg/L	0%	5	6	5	4	20	0.029 *	0.046 *	0.020 *	5	6	5	4	20	0.029 *	0.046 *	0.020 *
21_2_3_107	MW-11	Appendix III	Calcium	mg/L	0%	5	6	5	4	20	0.120	0.117	0.161	5	6	5	4	20	0.120	0.117	0.161
21_2_3_108	MW-11	Appendix III	Chloride (as Cl)	mg/L	0%	5	6	5	4	20	0.009 **	0.000 ***	0.000 ***	5	6	5	4	20	0.009 **	0.000 ***	0.000 ***
21_2_3_112	MW-11	Appendix III	Fluoride	mg/L	0%	5	6	5	4	20	0.148	0.378	0.254	5	6	5	4	20	0.148	0.378	0.254
21_2_3_120	MW-11	Appendix III	pH (field)	su	0%	5	6	5	4	20	0.046 *	0.051	0.051	5	6	5	4	20	0.046 *	0.051	0.051
21_2_3_124	MW-11	Appendix III	Sulfate (as SO4)	mg/L	35%	5	6	5	4	20	0.217	0.087	0.152	2	5	4	2	13	0.459	0.236	0.334
21_2_3_126	MW-11	Appendix III	Total Dissolved Solids	mg/L	0%	5	6	5	4	20	0.538	0.552	0.487	5	6	5	4	20	0.538	0.552	0.487
21_2_4_101	MW-11	Appendix IV	Antimony	mg/L	75%	5	6	5	4	20	0.846	0.656	0.743	1	2	0	2	5	0.349	0.121	0.364
21_2_4_102	MW-11	Appendix IV	Arsenic	mg/L	0%	5	6	5	4	20	0.287	0.495	0.393	5	6	5	4	20	0.287	0.495	0.393
21_2_4_103	MW-11	Appendix IV	Barium	mg/L	0%	5	6	5	4	20	0.122	0.442	0.285	5	6	5	4	20	0.122	0.442	0.285
21_2_4_104	MW-11	Appendix IV	Beryllium	mg/L	70%	5	6	5	4	20	0.927	0.568	0.693	2	2	0	2	6	0.102	0.380	0.281
21_2_4_106	MW-11	Appendix IV	Cadmium	mg/L	85%	5	6	5	4	20	0.824	0.750	0.903	1	1	0	1	3	0.368	NA	NA
21_2_4_109	MW-11	Appendix IV	Chromium, Total	mg/L	0%	5	6	5	4	20	0.163	0.555	0.490	5	6	5	4	20	0.163	0.555	0.490
21_2_4_110	MW-11	Appendix IV	Cobalt	mg/L	0%	5	6	5	4	20	0.780	0.795	0.925	5	6	5	4	20	0.780	0.795	0.925
21_2_4_113	MW-11	Appendix IV	Fluoride (App IV)	mg/L	0%	5	6	5	4	20	0.148	0.378	0.254	5	6	5	4	20	0.148	0.378	0.254
21_2_4_115	MW-11	Appendix IV	Lead	mg/L	15%	5	6	5	4	20	0.989	0.589	0.868	5	3	5	4	17	0.995	0.744	0.987
21_2_4_116	MW-11	Appendix IV	Lithium	mg/L	0%	5	6	5	4	20	0.054	0.108	0.046 *	5	6	5	4	20	0.054	0.108	0.046 *
21_2_4_117	MW-11	Appendix IV	Mercury	ng/L	65%	5	6	5	4	20	0.964	0.648	0.959	1	3	2	1	7	0.691	0.829	0.727
21_2_4_118	MW-11	Appendix IV	Molybdenum	mg/L	10%	5	6	5	4	20	0.714	0.768	0.702	5	4	5	4	18	0.693	0.605	0.690
21_2_4_121	MW-11	Appendix IV	Radium 226 and 228	pCi/L	37%	5	5	5	4	19	0.727	0.855	0.761	3	3	3	3	12	0.764	0.828	0.807
21_2_4_122	MW-11	Appendix IV	Selenium	mg/L	15%	5	6	5	4	20	0.559	0.378	0.409	4	4	5	4	17	0.526	0.340	0.397

(Table continues on next page)

*** p < 0.001, ** p < 0.01, * p < 0.05

Table 7: Seasonality Tests *(continued)*

						Full								Without Non-Detects							
						Sample Size					p-Value			Sample Size					p-Value		
ID	Well	Constituent Type	Constituent	Unit	% NDs	Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA	Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA
21_2_4_125	MW-11	Appendix IV	Thallium	mg/L	95%	5	6	5	4	20	0.163	0.228	0.185	0	1	0	0	1	NA	NA	NA
21_2_5_111	MW-11	Part 115	Copper	mg/L	20%	5	6	5	4	20	0.653	0.618	0.963	5	3	5	3	16	0.925	0.768	0.937
21_2_5_114	MW-11	Part 115	Iron	mg/L	0%	5	6	5	4	20	0.206	0.609	0.414	5	6	5	4	20	0.206	0.609	0.414
21_2_5_119	MW-11	Part 115	Nickel	mg/L	0%	5	6	5	4	20	0.549	0.437	0.454	5	6	5	4	20	0.549	0.437	0.454
21_2_5_123	MW-11	Part 115	Silver	mg/L	85%	5	6	5	4	20	0.219	0.152	0.206	1	1	0	1	3	0.368	NA	NA
21_2_5_128	MW-11	Part 115	Vanadium	mg/L	65%	5	6	5	4	20	0.688	0.590	0.607	2	2	2	1	7	0.543	0.642	0.646
21_2_5_129	MW-11	Part 115	Zinc	mg/L	20%	5	6	5	4	20	0.666	0.605	0.622	4	4	4	4	16	0.530	0.547	0.674
22_2_3_105	MW-12	Appendix III	Boron	mg/L	0%	5	6	5	4	20	0.004 **	0.000 ***	0.000 ***	5	6	5	4	20	0.004 **	0.000 ***	0.000 ***
22_2_3_107	MW-12	Appendix III	Calcium	mg/L	0%	5	6	5	4	20	0.024 *	0.009 **	0.013 *	5	6	5	4	20	0.024 *	0.009 **	0.013 *
22_2_3_108	MW-12	Appendix III	Chloride (as Cl)	mg/L	0%	5	6	5	4	20	0.041 *	0.041 *	0.042 *	5	6	5	4	20	0.041 *	0.041 *	0.042 *
22_2_3_112	MW-12	Appendix III	Fluoride	mg/L	0%	5	6	5	4	20	0.730	0.809	0.857	5	6	5	4	20	0.730	0.809	0.857
22_2_3_120	MW-12	Appendix III	pH (field)	su	0%	5	6	5	4	20	0.021 *	0.036 *	0.038 *	5	6	5	4	20	0.021 *	0.036 *	0.038 *
22_2_3_124	MW-12	Appendix III	Sulfate (as SO4)	mg/L	0%	5	6	5	4	20	0.707	0.554	0.511	5	6	5	4	20	0.707	0.554	0.511
22_2_3_126	MW-12	Appendix III	Total Dissolved Solids	mg/L	0%	5	6	5	4	20	0.054	0.042 *	0.091	5	6	5	4	20	0.054	0.042 *	0.091
22_2_4_101	MW-12	Appendix IV	Antimony	mg/L	0%	5	6	5	4	20	0.043 *	0.023 *	0.032 *	5	6	5	4	20	0.043 *	0.023 *	0.032 *
22_2_4_102	MW-12	Appendix IV	Arsenic	mg/L	0%	5	6	5	4	20	0.002 **	0.002 **	0.000 ***	5	6	5	4	20	0.002 **	0.002 **	0.000 ***
22_2_4_103	MW-12	Appendix IV	Barium	mg/L	0%	5	6	5	4	20	0.026 *	0.023 *	0.013 *	5	6	5	4	20	0.026 *	0.023 *	0.013 *
22_2_4_104	MW-12	Appendix IV	Beryllium	mg/L	95%	5	6	5	4	20	0.835	0.769	0.791	1	0	0	0	1	NA	NA	NA
22_2_4_106	MW-12	Appendix IV	Cadmium	mg/L	0%	5	6	5	4	20	0.062	0.133	0.041 *	5	6	5	4	20	0.062	0.133	0.041 *
22_2_4_109	MW-12	Appendix IV	Chromium, Total	mg/L	30%	5	6	5	4	20	0.009 **	0.007 **	0.001 ***	5	5	1	3	14	0.025 *	0.048 *	0.005 **
22_2_4_110	MW-12	Appendix IV	Cobalt	mg/L	25%	5	6	5	4	20	0.004 **	0.043 *	0.000 ***	3	3	5	4	15	0.032 *	0.244	0.024 *
22_2_4_113	MW-12	Appendix IV	Fluoride (App IV)	mg/L	0%	5	6	5	4	20	0.730	0.809	0.857	5	6	5	4	20	0.730	0.809	0.857
22_2_4_115	MW-12	Appendix IV	Lead	mg/L	30%	5	6	5	4	20	0.754	0.939	0.877	2	4	5	3	14	0.740	0.546	0.799
22_2_4_116	MW-12	Appendix IV	Lithium	mg/L	5%	5	6	5	4	20	0.010 **	0.001 **	0.001 **	4	6	5	4	19	0.016 *	0.004 **	0.004 **
22_2_4_117	MW-12	Appendix IV	Mercury	ng/L	60%	5	6	5	4	20	0.930	0.940	0.938	1	3	2	2	8	0.761	0.808	0.734
22_2_4_118	MW-12	Appendix IV	Molybdenum	mg/L	0%	5	6	5	4	20	0.013 *	0.016 *	0.007 **	5	6	5	4	20	0.013 *	0.016 *	0.007 **
22_2_4_121	MW-12	Appendix IV	Radium 226 and 228	pCi/L	60%	5	6	5	4	20	0.592	0.368	0.431	0	5	1	2	8	0.799	0.817	0.886
22_2_4_122	MW-12	Appendix IV	Selenium	mg/L	0%	5	6	5	4	20	0.004 **	0.001 **	0.000 ***	5	6	5	4	20	0.004 **	0.001 **	0.000 ***
22_2_4_125	MW-12	Appendix IV	Thallium	mg/L	100%	5	6	5	4	20	NA	0.273	NA	NA	NA	NA	NA	NA	NA	NA	NA
22_2_5_111	MW-12	Part 115	Copper	mg/L	0%	5	6	5	4	20	0.176	0.286	0.202	5	6	5	4	20	0.176	0.286	0.202
22_2_5_114	MW-12	Part 115	Iron	mg/L	30%	5	6	5	4	20	0.014 *	0.095	0.013 *	3	3	5	3	14	0.186	0.367	0.297
22_2_5_119	MW-12	Part 115	Nickel	mg/L	0%	5	6	5	4	20	0.036 *	0.087	0.030 *	5	6	5	4	20	0.036 *	0.087	0.030 *
22_2_5_123	MW-12	Part 115	Silver	mg/L	100%	5	6	5	4	20	NA	0.273	0.273	NA	NA	NA	NA	NA	NA	NA	NA
22_2_5_128	MW-12	Part 115	Vanadium	mg/L	30%	5	6	5	4	20	0.511	0.795	0.746	2	5	5	2	14	0.983	0.895	0.999
22_2_5_129	MW-12	Part 115	Zinc	mg/L	0%	5	6	5	4	20	0.188	0.315	0.271	5	6	5	4	20	0.188	0.315	0.271
26_1_3_105	MW-16	Appendix III	Boron	mg/L	0%	2	3	3	2	10	0.067	0.007 **	0.006 **	2	3	3	2	10	0.067	0.007 **	0.006 **
26_1_3_107	MW-16	Appendix III	Calcium	mg/L	0%	2	3	3	2	10	0.256	0.286	0.331	2	3	3	2	10	0.256	0.286	0.331
26_1_3_108	MW-16	Appendix III	Chloride (as Cl)	mg/L	0%	2	3	3	2	10	0.120	0.129	0.110	2	3	3	2	10	0.120	0.129	0.110
26_1_3_112	MW-16	Appendix III	Fluoride	mg/L	10%	2	3	3	2	10	0.822	0.668	0.526	2	3	3	1	9	0.705	0.797	0.831

(Table continues on next page)

*** p < 0.001, ** p < 0.01, * p < 0.05

Table 7: Seasonality Tests *(continued)*

						Full									Without Non-Detects								
						Sample Size					p-Value				Sample Size					p-Value			
ID	Well	Constituent Type	Constituent	Unit	% NDs	Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA		Log ANOVA		Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA		Log ANOVA	
26_1_3_120	MW-16	Appendix III	pH (field)	su	0%	2	3	3	2	10	0.065	0.011	*	0.012	*	2	3	3	2	10	0.065	0.011	*	0.012	*
26_1_3_124	MW-16	Appendix III	Sulfate (as SO4)	mg/L	20%	2	3	3	2	10	0.051	0.020	*	0.001	***	2	3	2	1	8	0.145	0.128		0.003	**
26_1_3_126	MW-16	Appendix III	Total Dissolved Solids	mg/L	0%	2	3	3	2	10	0.328	0.405		0.451		2	3	3	2	10	0.328	0.405		0.451	
26_1_4_101	MW-16	Appendix IV	Antimony	mg/L	90%	2	3	3	2	10	0.261	0.285		0.285		0	0	0	1	1	NA	NA		NA	
26_1_4_102	MW-16	Appendix IV	Arsenic	mg/L	0%	2	3	3	2	10	0.231	0.125		0.208		2	3	3	2	10	0.231	0.125		0.208	
26_1_4_103	MW-16	Appendix IV	Barium	mg/L	0%	2	3	3	2	10	0.754	0.915		0.862		2	3	3	2	10	0.754	0.915		0.862	
26_1_4_104	MW-16	Appendix IV	Beryllium	mg/L	90%	2	3	3	2	10	0.815	0.774		0.780		1	0	0	0	1	NA	NA		NA	
26_1_4_106	MW-16	Appendix IV	Cadmium	mg/L	100%	2	3	3	2	10	NA	NA		0.586		NA	NA	NA	NA	NA	NA	NA		NA	
26_1_4_109	MW-16	Appendix IV	Chromium, Total	mg/L	0%	2	3	3	2	10	0.052	0.037	*	0.012	*	2	3	3	2	10	0.052	0.037	*	0.012	*
26_1_4_110	MW-16	Appendix IV	Cobalt	mg/L	0%	2	3	3	2	10	0.228	0.625		0.562		2	3	3	2	10	0.228	0.625		0.562	
26_1_4_113	MW-16	Appendix IV	Fluoride (App IV)	mg/L	10%	2	3	3	2	10	0.822	0.668		0.526		2	3	3	1	9	0.705	0.797		0.831	
26_1_4_115	MW-16	Appendix IV	Lead	mg/L	60%	2	3	3	2	10	0.220	0.240		0.222		1	0	1	2	4	0.861	0.893		0.897	
26_1_4_116	MW-16	Appendix IV	Lithium	mg/L	0%	2	3	3	2	10	0.055	0.005	**	0.008	**	2	3	3	2	10	0.055	0.005	**	0.008	**
26_1_4_117	MW-16	Appendix IV	Mercury	ng/L	80%	2	3	3	2	10	0.856	0.980		0.977		1	0	1	0	2	0.317	NA		NA	
26_1_4_118	MW-16	Appendix IV	Molybdenum	mg/L	90%	2	3	3	2	10	0.678	0.657		0.679		0	1	0	0	1	NA	NA		NA	
26_1_4_121	MW-16	Appendix IV	Radium 226 and 228	pCi/L	40%	2	3	3	2	10	0.403	0.425		0.455		0	3	2	1	6	0.953	0.961		0.973	
26_1_4_122	MW-16	Appendix IV	Selenium	mg/L	10%	2	3	3	2	10	0.445	0.432		0.461		1	3	3	2	9	0.314	0.472		0.458	
26_1_4_125	MW-16	Appendix IV	Thallium	mg/L	100%	2	3	3	2	10	NA	NA		0.586		NA	NA	NA	NA	NA	NA	NA		NA	
26_1_5_111	MW-16	Part 115	Copper	mg/L	50%	2	3	3	2	10	0.097	0.030	*	0.038	*	2	2	0	1	5	0.165	0.108		0.094	
26_1_5_114	MW-16	Part 115	Iron	mg/L	0%	2	3	3	2	10	0.116	0.066		0.235		2	3	3	2	10	0.116	0.066		0.235	
26_1_5_119	MW-16	Part 115	Nickel	mg/L	10%	2	3	3	2	10	0.329	0.387		0.408		2	3	2	2	9	0.438	0.461		0.507	
26_1_5_123	MW-16	Part 115	Silver	mg/L	100%	2	3	3	2	10	NA	0.586		NA		NA	NA	NA	NA	NA	NA	NA		NA	
26_1_5_128	MW-16	Part 115	Vanadium	mg/L	30%	2	3	3	2	10	0.059	0.087		0.075		1	1	3	2	7	0.258	0.295		0.160	
26_1_5_129	MW-16	Part 115	Zinc	mg/L	20%	2	3	3	2	10	0.392	0.531		0.588		2	2	2	2	8	0.418	0.640		0.670	
27_1_3_105	MW-17	Appendix III	Boron	mg/L	0%	2	3	3	2	10	0.106	0.042	*	0.058		2	3	3	2	10	0.106	0.042	*	0.058	
27_1_3_107	MW-17	Appendix III	Calcium	mg/L	0%	2	3	3	2	10	0.611	0.559		0.508		2	3	3	2	10	0.611	0.559		0.508	
27_1_3_108	MW-17	Appendix III	Chloride (as Cl)	mg/L	0%	2	3	3	2	10	0.750	0.508		0.446		2	3	3	2	10	0.750	0.508		0.446	
27_1_3_112	MW-17	Appendix III	Fluoride	mg/L	0%	2	3	3	2	10	0.180	0.378		0.417		2	3	3	2	10	0.180	0.378		0.417	
27_1_3_120	MW-17	Appendix III	pH (field)	su	0%	2	3	3	2	10	0.110	0.018	*	0.019	*	2	3	3	2	10	0.110	0.018	*	0.019	*
27_1_3_124	MW-17	Appendix III	Sulfate (as SO4)	mg/L	20%	2	3	3	2	10	0.328	0.089		0.291		2	3	2	1	8	0.343	0.186		0.398	
27_1_3_126	MW-17	Appendix III	Total Dissolved Solids	mg/L	0%	2	3	3	2	10	0.312	0.373		0.369		2	3	3	2	10	0.312	0.373		0.369	
27_1_4_101	MW-17	Appendix IV	Antimony	mg/L	80%	2	3	3	2	10	0.451	0.293		0.323		1	0	1	0	2	0.317	NA		NA	
27_1_4_102	MW-17	Appendix IV	Arsenic	mg/L	0%	2	3	3	2	10	0.064	0.009	**	0.008	**	2	3	3	2	10	0.064	0.009	**	0.008	**
27_1_4_103	MW-17	Appendix IV	Barium	mg/L	0%	2	3	3	2	10	0.261	0.176		0.147		2	3	3	2	10	0.261	0.176		0.147	
27_1_4_104	MW-17	Appendix IV	Beryllium	mg/L	90%	2	3	3	2	10	0.815	0.858		0.868		1	0	0	0	1	NA	NA		NA	
27_1_4_106	MW-17	Appendix IV	Cadmium	mg/L	90%	2	3	3	2	10	0.261	0.285		0.285		1	0	0	0	1	NA	NA		NA	
27_1_4_109	MW-17	Appendix IV	Chromium, Total	mg/L	0%	2	3	3	2	10	0.757	0.403		0.526		2	3	3	2	10	0.757	0.403		0.526	
27_1_4_110	MW-17	Appendix IV	Cobalt	mg/L	0%	2	3	3	2	10	0.111	0.092		0.066		2	3	3	2	10	0.111	0.092		0.066	
27_1_4_113	MW-17	Appendix IV	Fluoride (App IV)	mg/L	0%	2	3	3	2	10	0.180	0.378		0.417		2	3	3	2	10	0.180	0.378		0.417	

(Table continues on next page)

*** p < 0.001, ** p < 0.01, * p < 0.05

Table 7: Seasonality Tests *(continued)*

						Full								Without Non-Detects							
						Sample Size					p-Value			Sample Size					p-Value		
ID	Well	Constituent Type	Constituent	Unit	% NDs	Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA	Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA
27_1_4_115	MW-17	Appendix IV	Lead	mg/L	10%	2	3	3	2	10	0.121	0.215	0.134	2	3	3	1	9	0.223	0.400	0.362
27_1_4_116	MW-17	Appendix IV	Lithium	mg/L	0%	2	3	3	2	10	0.111	0.087	0.105	2	3	3	2	10	0.111	0.087	0.105
27_1_4_117	MW-17	Appendix IV	Mercury	ng/L	70%	2	3	3	2	10	0.815	0.979	0.921	1	1	1	0	3	0.368	NA	NA
27_1_4_118	MW-17	Appendix IV	Molybdenum	mg/L	0%	2	3	3	2	10	0.176	0.306	0.357	2	3	3	2	10	0.176	0.306	0.357
27_1_4_121	MW-17	Appendix IV	Radium 226 and 228	pCi/L	30%	2	3	3	2	10	0.757	0.808	0.882	1	2	2	2	7	0.522	0.771	0.762
27_1_4_122	MW-17	Appendix IV	Selenium	mg/L	0%	2	3	3	2	10	0.797	0.350	0.577	2	3	3	2	10	0.797	0.350	0.577
27_1_4_125	MW-17	Appendix IV	Thallium	mg/L	100%	2	3	3	2	10	NA	NA	0.586	NA	NA	NA	NA	NA	NA	NA	NA
27_1_5_111	MW-17	Part 115	Copper	mg/L	10%	2	3	3	2	10	0.225	0.264	0.166	2	3	3	1	9	0.375	0.382	0.320
27_1_5_114	MW-17	Part 115	Iron	mg/L	0%	2	3	3	2	10	0.195	0.218	0.209	2	3	3	2	10	0.195	0.218	0.209
27_1_5_119	MW-17	Part 115	Nickel	mg/L	0%	2	3	3	2	10	0.677	0.306	0.379	2	3	3	2	10	0.677	0.306	0.379
27_1_5_123	MW-17	Part 115	Silver	mg/L	100%	2	3	3	2	10	NA	0.586	NA	NA	NA	NA	NA	NA	NA	NA	NA
27_1_5_128	MW-17	Part 115	Vanadium	mg/L	0%	2	3	3	2	10	0.757	0.915	0.904	2	3	3	2	10	0.757	0.915	0.904
27_1_5_129	MW-17	Part 115	Zinc	mg/L	0%	2	3	3	2	10	0.271	0.081	0.244	2	3	3	2	10	0.271	0.081	0.244
28_1_3_105	MW-18	Appendix III	Boron	mg/L	0%	5	6	5	4	20	0.338	0.396	0.348	5	6	5	4	20	0.338	0.396	0.348
28_1_3_107	MW-18	Appendix III	Calcium	mg/L	0%	5	6	5	4	20	0.033 *	0.021 *	0.030 *	5	6	5	4	20	0.033 *	0.021 *	0.030 *
28_1_3_108	MW-18	Appendix III	Chloride (as Cl)	mg/L	0%	5	6	5	4	20	0.013 *	0.008 **	0.009 **	5	6	5	4	20	0.013 *	0.008 **	0.009 **
28_1_3_112	MW-18	Appendix III	Fluoride	mg/L	0%	5	6	5	4	20	0.012 *	0.002 **	0.003 **	5	6	5	4	20	0.012 *	0.002 **	0.003 **
28_1_3_120	MW-18	Appendix III	pH (field)	su	0%	5	6	5	4	20	0.783	0.963	0.967	5	6	5	4	20	0.783	0.963	0.967
28_1_3_124	MW-18	Appendix III	Sulfate (as SO4)	mg/L	0%	5	6	5	4	20	0.466	0.333	0.530	5	6	5	4	20	0.466	0.333	0.530
28_1_3_126	MW-18	Appendix III	Total Dissolved Solids	mg/L	0%	5	6	5	4	20	0.305	0.405	0.533	5	6	5	4	20	0.305	0.405	0.533
28_1_4_101	MW-18	Appendix IV	Antimony	mg/L	15%	5	6	5	4	20	0.067	0.570	0.291	4	5	4	4	17	0.202	0.769	0.647
28_1_4_102	MW-18	Appendix IV	Arsenic	mg/L	0%	5	6	5	4	20	0.003 **	0.001 ***	0.004 **	5	6	5	4	20	0.003 **	0.001 ***	0.004 **
28_1_4_103	MW-18	Appendix IV	Barium	mg/L	0%	5	6	5	4	20	0.117	0.846	0.549	5	6	5	4	20	0.117	0.846	0.549
28_1_4_104	MW-18	Appendix IV	Beryllium	mg/L	80%	5	6	5	4	20	0.945	0.705	0.721	2	1	0	1	4	0.861	0.814	0.814
28_1_4_106	MW-18	Appendix IV	Cadmium	mg/L	35%	5	6	5	4	20	0.760	1.000	0.906	3	5	3	2	13	0.934	0.939	0.945
28_1_4_109	MW-18	Appendix IV	Chromium, Total	mg/L	80%	5	6	5	4	20	0.425	0.186	0.171	0	3	1	0	4	0.180	0.433	0.394
28_1_4_110	MW-18	Appendix IV	Cobalt	mg/L	0%	5	6	5	4	20	0.542	0.416	0.435	5	6	5	4	20	0.542	0.416	0.435
28_1_4_113	MW-18	Appendix IV	Fluoride (App IV)	mg/L	0%	5	6	5	4	20	0.012 *	0.002 **	0.003 **	5	6	5	4	20	0.012 *	0.002 **	0.003 **
28_1_4_115	MW-18	Appendix IV	Lead	mg/L	60%	5	6	5	4	20	0.851	0.436	0.754	0	0	5	3	8	0.653	0.739	0.775
28_1_4_116	MW-18	Appendix IV	Lithium	mg/L	0%	5	6	5	4	20	0.005 **	0.002 **	0.003 **	5	6	5	4	20	0.005 **	0.002 **	0.003 **
28_1_4_117	MW-18	Appendix IV	Mercury	ng/L	75%	5	6	5	4	20	0.930	0.927	0.925	1	1	2	1	5	0.849	0.944	0.959
28_1_4_118	MW-18	Appendix IV	Molybdenum	mg/L	0%	5	6	5	4	20	0.023 *	0.007 **	0.008 **	5	6	5	4	20	0.023 *	0.007 **	0.008 **
28_1_4_121	MW-18	Appendix IV	Radium 226 and 228	pCi/L	50%	5	6	5	4	20	0.721	0.764	0.804	1	3	3	3	10	0.854	0.834	0.881
28_1_4_122	MW-18	Appendix IV	Selenium	mg/L	0%	5	6	5	4	20	0.065	0.281	0.048 *	5	6	5	4	20	0.065	0.281	0.048 *
28_1_4_125	MW-18	Appendix IV	Thallium	mg/L	90%	5	6	5	4	20	0.749	0.457	0.592	0	0	1	1	2	NA	NA	NA
28_1_5_111	MW-18	Part 115	Copper	mg/L	0%	5	6	5	4	20	0.103	0.652	0.297	5	6	5	4	20	0.103	0.652	0.297
28_1_5_114	MW-18	Part 115	Iron	mg/L	0%	5	6	5	4	20	0.170	0.143	0.237	5	6	5	4	20	0.170	0.143	0.237
28_1_5_119	MW-18	Part 115	Nickel	mg/L	0%	5	6	5	4	20	0.369	0.407	0.388	5	6	5	4	20	0.369	0.407	0.388
28_1_5_123	MW-18	Part 115	Silver	mg/L	100%	5	6	5	4	20	0.278	0.292	0.292	NA	NA	NA	NA	NA	NA	NA	NA

(Table continues on next page)

*** p < 0.001, ** p < 0.01, * p < 0.05

Table 7: Seasonality Tests *(continued)*

						Full								Without Non-Detects							
						Sample Size					p-Value			Sample Size					p-Value		
ID	Well	Constituent Type	Constituent	Unit	% NDs	Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA	Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA
28_1_5_128	MW-18	Part 115	Vanadium	mg/L	90%	5	6	5	4	20	0.737	0.807	0.777	0	1	0	1	2	0.317	NA	NA
28_1_5_129	MW-18	Part 115	Zinc	mg/L	0%	5	6	5	4	20	0.554	0.776	0.512	5	6	5	4	20	0.554	0.776	0.512
29_1_3_105	MW-19	Appendix III	Boron	mg/L	0%	5	6	5	4	20	0.003 **	0.000 ***	0.000 ***	5	6	5	4	20	0.003 **	0.000 ***	0.000 ***
29_1_3_107	MW-19	Appendix III	Calcium	mg/L	0%	5	6	5	4	20	0.326	0.458	0.497	5	6	5	4	20	0.326	0.458	0.497
29_1_3_108	MW-19	Appendix III	Chloride (as Cl)	mg/L	0%	5	6	5	4	20	0.289	0.213	0.237	5	6	5	4	20	0.289	0.213	0.237
29_1_3_112	MW-19	Appendix III	Fluoride	mg/L	0%	5	6	5	4	20	0.050 *	0.073	0.068	5	6	5	4	20	0.050 *	0.073	0.068
29_1_3_120	MW-19	Appendix III	pH (field)	su	0%	5	6	5	4	20	0.191	0.236	0.239	5	6	5	4	20	0.191	0.236	0.239
29_1_3_124	MW-19	Appendix III	Sulfate (as SO4)	mg/L	0%	5	6	5	4	20	0.570	0.600	0.611	5	6	5	4	20	0.570	0.600	0.611
29_1_3_126	MW-19	Appendix III	Total Dissolved Solids	mg/L	0%	5	6	5	4	20	0.764	0.705	0.761	5	6	5	4	20	0.764	0.705	0.761
29_1_4_101	MW-19	Appendix IV	Antimony	mg/L	70%	5	6	5	4	20	0.375	0.201	0.295	2	2	1	1	6	0.463	0.694	0.474
29_1_4_102	MW-19	Appendix IV	Arsenic	mg/L	0%	5	6	5	4	20	0.347	0.245	0.417	5	6	5	4	20	0.347	0.245	0.417
29_1_4_103	MW-19	Appendix IV	Barium	mg/L	0%	5	6	5	4	20	0.065	0.052	0.050 *	5	6	5	4	20	0.065	0.052	0.050 *
29_1_4_104	MW-19	Appendix IV	Beryllium	mg/L	15%	5	6	5	4	20	0.879	0.730	0.839	4	6	5	2	17	0.548	0.637	0.581
29_1_4_106	MW-19	Appendix IV	Cadmium	mg/L	90%	5	6	5	4	20	0.732	0.554	0.735	1	0	0	1	2	0.317	NA	NA
29_1_4_109	MW-19	Appendix IV	Chromium, Total	mg/L	30%	5	6	5	4	20	0.721	0.362	0.563	3	3	5	3	14	0.771	0.881	0.950
29_1_4_110	MW-19	Appendix IV	Cobalt	mg/L	10%	5	6	5	4	20	0.103	0.186	0.064	5	6	3	4	18	0.385	0.566	0.371
29_1_4_113	MW-19	Appendix IV	Fluoride (App IV)	mg/L	0%	5	6	5	4	20	0.050 *	0.073	0.068	5	6	5	4	20	0.050 *	0.073	0.068
29_1_4_115	MW-19	Appendix IV	Lead	mg/L	100%	5	6	5	4	20	0.861	0.630	0.853	NA	NA	NA	NA	NA	NA	NA	NA
29_1_4_116	MW-19	Appendix IV	Lithium	mg/L	0%	5	6	5	4	20	0.670	0.833	0.760	5	6	5	4	20	0.670	0.833	0.760
29_1_4_117	MW-19	Appendix IV	Mercury	ng/L	90%	5	6	5	4	20	0.895	0.927	0.933	1	0	1	0	2	0.317	NA	NA
29_1_4_118	MW-19	Appendix IV	Molybdenum	mg/L	0%	5	6	5	4	20	0.355	0.600	0.662	5	6	5	4	20	0.355	0.600	0.662
29_1_4_121	MW-19	Appendix IV	Radium 226 and 228	pCi/L	45%	5	6	5	4	20	0.444	0.688	0.550	4	4	3	0	11	0.840	0.751	0.703
29_1_4_122	MW-19	Appendix IV	Selenium	mg/L	55%	5	6	5	4	20	0.068	0.216	0.092	3	2	2	2	9	0.204	0.713	0.682
29_1_4_125	MW-19	Appendix IV	Thallium	mg/L	95%	5	6	5	4	20	0.981	0.942	0.963	0	0	0	1	1	NA	NA	NA
29_1_5_111	MW-19	Part 115	Copper	mg/L	80%	5	6	5	4	20	0.770	0.521	0.542	0	1	2	1	4	0.259	0.229	0.182
29_1_5_114	MW-19	Part 115	Iron	mg/L	0%	5	6	5	4	20	0.389	0.502	0.654	5	6	5	4	20	0.389	0.502	0.654
29_1_5_119	MW-19	Part 115	Nickel	mg/L	5%	5	6	5	4	20	0.720	0.590	0.731	4	6	5	4	19	0.830	0.617	0.747
29_1_5_123	MW-19	Part 115	Silver	mg/L	100%	5	6	5	4	20	0.266	0.278	0.278	NA	NA	NA	NA	NA	NA	NA	NA
29_1_5_128	MW-19	Part 115	Vanadium	mg/L	70%	5	6	5	4	20	0.386	0.394	0.317	1	2	2	1	6	0.370	0.363	0.513
29_1_5_129	MW-19	Part 115	Zinc	mg/L	50%	5	6	5	4	20	0.711	0.576	0.709	2	3	2	3	10	0.691	0.738	0.813
30_1_3_105	MW-20	Appendix III	Boron	mg/L	0%	5	6	5	4	20	0.002 **	0.000 ***	0.000 ***	5	6	5	4	20	0.002 **	0.000 ***	0.000 ***
30_1_3_107	MW-20	Appendix III	Calcium	mg/L	0%	5	6	5	4	20	0.632	0.560	0.506	5	6	5	4	20	0.632	0.560	0.506
30_1_3_108	MW-20	Appendix III	Chloride (as Cl)	mg/L	0%	5	6	5	4	20	0.643	0.693	0.798	5	6	5	4	20	0.643	0.693	0.798
30_1_3_112	MW-20	Appendix III	Fluoride	mg/L	0%	5	6	5	4	20	0.947	0.836	0.989	5	6	5	4	20	0.947	0.836	0.989
30_1_3_120	MW-20	Appendix III	pH (field)	su	0%	5	6	5	4	20	0.084	0.057	0.058	5	6	5	4	20	0.084	0.057	0.058
30_1_3_124	MW-20	Appendix III	Sulfate (as SO4)	mg/L	0%	5	6	5	4	20	0.024 *	0.028 *	0.005 **	5	6	5	4	20	0.024 *	0.028 *	0.005 **
30_1_3_126	MW-20	Appendix III	Total Dissolved Solids	mg/L	0%	5	6	5	4	20	0.325	0.191	0.229	5	6	5	4	20	0.325	0.191	0.229
30_1_4_101	MW-20	Appendix IV	Antimony	mg/L	40%	5	6	5	4	20	0.416	0.258	0.220	3	2	4	3	12	0.575	0.423	0.355
30_1_4_102	MW-20	Appendix IV	Arsenic	mg/L	0%	5	6	5	4	20	0.002 **	0.000 ***	0.000 ***	5	6	5	4	20	0.002 **	0.000 ***	0.000 ***

(Table continues on next page)

*** p < 0.001, ** p < 0.01, * p < 0.05

Table 7: Seasonality Tests *(continued)*

						Full									Without Non-Detects								
						Sample Size					p-Value				Sample Size					p-Value			
ID	Well	Constituent Type	Constituent	Unit	% NDs	Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA		Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA	
30_1_4_103	MW-20	Appendix IV	Barium	mg/L	0%	5	6	5	4	20	0.017 *	0.007 **	0.007 **		5	6	5	4	20	0.017 *	0.007 **	0.007 **	
30_1_4_104	MW-20	Appendix IV	Beryllium	mg/L	95%	5	6	5	4	20	0.835	0.718	0.735		1	0	0	0	1	NA	NA	NA	
30_1_4_106	MW-20	Appendix IV	Cadmium	mg/L	95%	5	6	5	4	20	0.499	0.320	0.454		0	0	0	1	1	NA	NA	NA	
30_1_4_109	MW-20	Appendix IV	Chromium, Total	mg/L	50%	5	6	5	4	20	0.684	0.430	0.467		3	3	2	2	10	0.490	0.586	0.575	
30_1_4_110	MW-20	Appendix IV	Cobalt	mg/L	0%	5	6	5	4	20	0.980	0.941	0.954		5	6	5	4	20	0.980	0.941	0.954	
30_1_4_113	MW-20	Appendix IV	Fluoride (App IV)	mg/L	0%	5	6	5	4	20	0.947	0.836	0.989		5	6	5	4	20	0.947	0.836	0.989	
30_1_4_115	MW-20	Appendix IV	Lead	mg/L	0%	5	6	5	4	20	0.087	0.243	0.145		5	6	5	4	20	0.087	0.243	0.145	
30_1_4_116	MW-20	Appendix IV	Lithium	mg/L	0%	5	6	5	4	20	0.043 *	0.013 *	0.016 *		5	6	5	4	20	0.043 *	0.013 *	0.016 *	
30_1_4_117	MW-20	Appendix IV	Mercury	ng/L	70%	5	6	5	4	20	0.847	0.921	0.891		1	2	2	1	6	0.277	0.095	0.068	
30_1_4_118	MW-20	Appendix IV	Molybdenum	mg/L	0%	5	6	5	4	20	0.116	0.087	0.085		5	6	5	4	20	0.116	0.087	0.085	
30_1_4_121	MW-20	Appendix IV	Radium 226 and 228	pCi/L	53%	4	6	5	4	19	0.349	0.228	0.294		2	3	2	2	9	0.902	0.684	0.787	
30_1_4_122	MW-20	Appendix IV	Selenium	mg/L	60%	5	6	5	4	20	0.225	0.241	0.221		2	2	2	2	8	0.514	0.617	0.670	
30_1_4_125	MW-20	Appendix IV	Thallium	mg/L	95%	5	6	5	4	20	0.392	0.418	0.418		1	0	0	0	1	NA	NA	NA	
30_1_5_111	MW-20	Part 115	Copper	mg/L	10%	5	6	5	4	20	0.179	0.213	0.165		4	5	5	4	18	0.367	0.311	0.313	
30_1_5_114	MW-20	Part 115	Iron	mg/L	0%	5	6	5	4	20	0.608	0.779	0.884		5	6	5	4	20	0.608	0.779	0.884	
30_1_5_119	MW-20	Part 115	Nickel	mg/L	0%	5	6	5	4	20	0.861	0.438	0.593		5	6	5	4	20	0.861	0.438	0.593	
30_1_5_123	MW-20	Part 115	Silver	mg/L	100%	5	6	5	4	20	NA	0.273	0.273		NA	NA	NA	NA	NA	NA	NA	NA	
30_1_5_128	MW-20	Part 115	Vanadium	mg/L	100%	5	6	5	4	20	0.839	0.862	0.862		NA	NA	NA	NA	NA	NA	NA	NA	
30_1_5_129	MW-20	Part 115	Zinc	mg/L	0%	5	6	5	4	20	0.229	0.046 *	0.094		5	6	5	4	20	0.229	0.046 *	0.094	
38_1_3_105	MW-28	Appendix III	Boron	mg/L	0%	2	3	3	2	10	0.075	0.025 *	0.125		2	3	3	2	10	0.075	0.025 *	0.125	
38_1_3_107	MW-28	Appendix III	Calcium	mg/L	0%	2	3	3	2	10	0.609	0.790	0.792		2	3	3	2	10	0.609	0.790	0.792	
38_1_3_108	MW-28	Appendix III	Chloride (as Cl)	mg/L	0%	2	3	3	2	10	0.728	0.670	0.454		2	3	3	2	10	0.728	0.670	0.454	
38_1_3_112	MW-28	Appendix III	Fluoride	mg/L	0%	2	3	3	2	10	0.067	0.023 *	0.057		2	3	3	2	10	0.067	0.023 *	0.057	
38_1_3_120	MW-28	Appendix III	pH (field)	su	0%	2	3	3	2	10	0.104	0.172	0.176		2	3	3	2	10	0.104	0.172	0.176	
38_1_3_124	MW-28	Appendix III	Sulfate (as SO4)	mg/L	20%	2	3	3	2	10	0.075	0.026 *	0.001 ***		2	3	2	1	8	0.162	0.136	0.004 **	
38_1_3_126	MW-28	Appendix III	Total Dissolved Solids	mg/L	0%	2	3	3	2	10	0.694	0.822	0.788		2	3	3	2	10	0.694	0.822	0.788	
38_1_4_101	MW-28	Appendix IV	Antimony	mg/L	0%	2	3	3	2	10	0.121	0.155	0.091		2	3	3	2	10	0.121	0.155	0.091	
38_1_4_102	MW-28	Appendix IV	Arsenic	mg/L	0%	2	3	3	2	10	0.435	0.329	0.361		2	3	3	2	10	0.435	0.329	0.361	
38_1_4_103	MW-28	Appendix IV	Barium	mg/L	0%	2	3	3	2	10	0.152	0.125	0.221		2	3	3	2	10	0.152	0.125	0.221	
38_1_4_104	MW-28	Appendix IV	Beryllium	mg/L	100%	2	3	3	2	10	0.682	0.758	0.758		NA	NA	NA	NA	NA	NA	NA	NA	
38_1_4_106	MW-28	Appendix IV	Cadmium	mg/L	50%	2	3	3	2	10	0.274	0.359	0.603		2	2	1	0	5	0.497	0.727	0.880	
38_1_4_109	MW-28	Appendix IV	Chromium, Total	mg/L	0%	2	3	3	2	10	0.212	0.339	0.243		2	3	3	2	10	0.212	0.339	0.243	
38_1_4_110	MW-28	Appendix IV	Cobalt	mg/L	0%	2	3	3	2	10	0.148	0.236	0.107		2	3	3	2	10	0.148	0.236	0.107	
38_1_4_113	MW-28	Appendix IV	Fluoride (App IV)	mg/L	0%	2	3	3	2	10	0.067	0.023 *	0.057		2	3	3	2	10	0.067	0.023 *	0.057	
38_1_4_115	MW-28	Appendix IV	Lead	mg/L	0%	2	3	3	2	10	0.186	0.713	0.264		2	3	3	2	10	0.186	0.713	0.264	
38_1_4_116	MW-28	Appendix IV	Lithium	mg/L	0%	2	3	3	2	10	0.093	0.039 *	0.194		2	3	3	2	10	0.093	0.039 *	0.194	
38_1_4_117	MW-28	Appendix IV	Mercury	ng/L	30%	2	3	3	2	10	0.702	0.968	0.790		1	3	2	1	7	0.180	0.783	0.228	
38_1_4_118	MW-28	Appendix IV	Molybdenum	mg/L	0%	2	3	3	2	10	0.816	0.688	0.730		2	3	3	2	10	0.816	0.688	0.730	
38_1_4_121	MW-28	Appendix IV	Radium 226 and 228	pCi/L	22%	1	3	3	2	9	0.510	0.791	0.769		1	1	3	2	7	0.586	0.864	0.857	

(Table continues on next page)

*** p < 0.001, ** p < 0.01, * p < 0.05

Table 7: Seasonality Tests *(continued)*

						Full								Without Non-Detects							
						Sample Size					p-Value			Sample Size					p-Value		
ID	Well	Constituent Type	Constituent	Unit	% NDs	Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA	Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA
38_1_4_122	MW-28	Appendix IV	Selenium	mg/L	0%	2	3	3	2	10	0.596	0.316	0.379	2	3	3	2	10	0.596	0.316	0.379
38_1_4_125	MW-28	Appendix IV	Thallium	mg/L	100%	2	3	3	2	10	NA	NA	0.586	NA	NA	NA	NA	NA	NA	NA	NA
38_1_5_111	MW-28	Part 115	Copper	mg/L	10%	2	3	3	2	10	0.165	0.378	0.193	2	3	3	1	9	0.349	0.519	0.479
38_1_5_114	MW-28	Part 115	Iron	mg/L	0%	2	3	3	2	10	0.200	0.247	0.361	2	3	3	2	10	0.200	0.247	0.361
38_1_5_119	MW-28	Part 115	Nickel	mg/L	0%	2	3	3	2	10	0.097	0.041 *	0.100	2	3	3	2	10	0.097	0.041 *	0.100
38_1_5_123	MW-28	Part 115	Silver	mg/L	100%	2	3	3	2	10	NA	0.586	NA	NA	NA	NA	NA	NA	NA	NA	NA
38_1_5_128	MW-28	Part 115	Vanadium	mg/L	20%	2	3	3	2	10	0.446	0.575	0.549	1	2	3	2	8	0.632	0.727	0.696
38_1_5_129	MW-28	Part 115	Zinc	mg/L	0%	2	3	3	2	10	0.186	0.176	0.279	2	3	3	2	10	0.186	0.176	0.279
40_1_3_105	MW-30	Appendix III	Boron	mg/L	0%	5	6	5	4	20	0.689	0.963	0.982	5	6	5	4	20	0.689	0.963	0.982
40_1_3_107	MW-30	Appendix III	Calcium	mg/L	0%	5	6	5	4	20	0.281	0.192	0.139	5	6	5	4	20	0.281	0.192	0.139
40_1_3_108	MW-30	Appendix III	Chloride (as Cl)	mg/L	0%	5	6	5	4	20	0.732	0.893	0.826	5	6	5	4	20	0.732	0.893	0.826
40_1_3_112	MW-30	Appendix III	Fluoride	mg/L	0%	5	6	5	4	20	0.471	0.646	0.573	5	6	5	4	20	0.471	0.646	0.573
40_1_3_120	MW-30	Appendix III	pH (field)	su	0%	5	6	5	4	20	0.647	0.547	0.542	5	6	5	4	20	0.647	0.547	0.542
40_1_3_124	MW-30	Appendix III	Sulfate (as SO4)	mg/L	0%	5	6	5	4	20	0.023 *	0.004 **	0.003 **	5	6	5	4	20	0.023 *	0.004 **	0.003 **
40_1_3_126	MW-30	Appendix III	Total Dissolved Solids	mg/L	0%	5	6	5	4	20	0.408	0.762	0.712	5	6	5	4	20	0.408	0.762	0.712
40_1_4_101	MW-30	Appendix IV	Antimony	mg/L	80%	5	6	5	4	20	0.672	0.627	0.644	2	1	0	1	4	0.259	0.193	0.257
40_1_4_102	MW-30	Appendix IV	Arsenic	mg/L	10%	5	6	5	4	20	0.505	0.441	0.470	4	5	5	4	18	0.699	0.531	0.675
40_1_4_103	MW-30	Appendix IV	Barium	mg/L	0%	5	6	5	4	20	0.008 **	0.001 ***	0.001 ***	5	6	5	4	20	0.008 **	0.001 ***	0.001 ***
40_1_4_104	MW-30	Appendix IV	Beryllium	mg/L	80%	5	6	5	4	20	0.114	0.056	0.071	2	0	1	1	4	0.861	0.923	0.949
40_1_4_106	MW-30	Appendix IV	Cadmium	mg/L	95%	5	6	5	4	20	0.660	0.442	0.671	0	0	0	1	1	NA	NA	NA
40_1_4_109	MW-30	Appendix IV	Chromium, Total	mg/L	0%	5	6	5	4	20	0.026 *	0.015 *	0.013 *	5	6	5	4	20	0.026 *	0.015 *	0.013 *
40_1_4_110	MW-30	Appendix IV	Cobalt	mg/L	0%	5	6	5	4	20	0.041 *	0.255	0.027 *	5	6	5	4	20	0.041 *	0.255	0.027 *
40_1_4_113	MW-30	Appendix IV	Fluoride (App IV)	mg/L	0%	5	6	5	4	20	0.471	0.646	0.573	5	6	5	4	20	0.471	0.646	0.573
40_1_4_115	MW-30	Appendix IV	Lead	mg/L	90%	5	6	5	4	20	0.918	0.265	0.593	0	0	0	2	2	NA	NA	NA
40_1_4_116	MW-30	Appendix IV	Lithium	mg/L	0%	5	6	5	4	20	0.482	0.572	0.519	5	6	5	4	20	0.482	0.572	0.519
40_1_4_117	MW-30	Appendix IV	Mercury	ng/L	90%	5	6	5	4	20	0.868	0.890	0.924	1	1	0	0	2	0.317	NA	NA
40_1_4_118	MW-30	Appendix IV	Molybdenum	mg/L	15%	5	6	5	4	20	0.312	0.511	0.621	4	5	5	3	17	0.607	0.395	0.702
40_1_4_121	MW-30	Appendix IV	Radium 226 and 228	pCi/L	55%	5	6	5	4	20	0.530	0.400	0.405	3	2	4	0	9	0.170	0.137	0.118
40_1_4_122	MW-30	Appendix IV	Selenium	mg/L	35%	5	6	5	4	20	0.022 *	0.182	0.027 *	2	3	5	3	13	0.126	0.320	0.158
40_1_4_125	MW-30	Appendix IV	Thallium	mg/L	100%	5	6	5	4	20	0.289	0.304	0.304	NA	NA	NA	NA	NA	NA	NA	NA
40_1_5_111	MW-30	Part 115	Copper	mg/L	70%	5	6	5	4	20	0.047 *	0.271	0.151	2	2	0	2	6	0.156	0.441	0.275
40_1_5_114	MW-30	Part 115	Iron	mg/L	0%	5	6	5	4	20	0.008 **	0.049 *	0.002 **	5	6	5	4	20	0.008 **	0.049 *	0.002 **
40_1_5_119	MW-30	Part 115	Nickel	mg/L	15%	5	6	5	4	20	0.082	0.351	0.089	4	6	5	2	17	0.150	0.323	0.110
40_1_5_123	MW-30	Part 115	Silver	mg/L	95%	5	6	5	4	20	0.194	0.132	0.163	0	0	0	1	1	NA	NA	NA
40_1_5_128	MW-30	Part 115	Vanadium	mg/L	80%	5	6	5	4	20	0.323	0.302	0.270	1	0	2	1	4	0.325	0.002 **	0.023 *
40_1_5_129	MW-30	Part 115	Zinc	mg/L	50%	5	6	5	4	20	0.301	0.125	0.247	2	3	2	3	10	0.186	0.001 ***	0.034 *
41_1_3_105	MW-31	Appendix III	Boron	mg/L	0%	6	6	5	3	20	0.044 *	0.073	0.054	6	6	5	3	20	0.044 *	0.073	0.054
41_1_3_107	MW-31	Appendix III	Calcium	mg/L	0%	6	6	5	3	20	0.032 *	0.185	0.096	6	6	5	3	20	0.032 *	0.185	0.096
41_1_3_108	MW-31	Appendix III	Chloride (as Cl)	mg/L	0%	6	6	5	3	20	0.101	0.199	0.159	6	6	5	3	20	0.101	0.199	0.159

(Table continues on next page)

*** p < 0.001, ** p < 0.01, * p < 0.05

Table 7: Seasonality Tests *(continued)*

						Full								Without Non-Detects							
						Sample Size					p-Value			Sample Size					p-Value		
ID	Well	Constituent Type	Constituent	Unit	% NDs	Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA	Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA
41_1_3_112	MW-31	Appendix III	Fluoride	mg/L	0%	6	6	5	3	20	0.638	0.821	0.846	6	6	5	3	20	0.638	0.821	0.846
41_1_3_120	MW-31	Appendix III	pH (field)	su	0%	6	6	5	3	20	0.972	0.874	0.871	6	6	5	3	20	0.972	0.874	0.871
41_1_3_124	MW-31	Appendix III	Sulfate (as SO4)	mg/L	0%	6	6	5	3	20	0.006 **	0.063	0.001 ***	6	6	5	3	20	0.006 **	0.063	0.001 ***
41_1_3_126	MW-31	Appendix III	Total Dissolved Solids	mg/L	0%	6	6	5	3	20	0.120	0.513	0.436	6	6	5	3	20	0.120	0.513	0.436
41_1_4_101	MW-31	Appendix IV	Antimony	mg/L	35%	6	6	5	3	20	0.347	0.319	0.380	4	3	4	2	13	0.552	0.490	0.558
41_1_4_102	MW-31	Appendix IV	Arsenic	mg/L	0%	6	6	5	3	20	0.205	0.744	0.627	6	6	5	3	20	0.205	0.744	0.627
41_1_4_103	MW-31	Appendix IV	Barium	mg/L	0%	6	6	5	3	20	0.069	0.053	0.050	6	6	5	3	20	0.069	0.053	0.050
41_1_4_104	MW-31	Appendix IV	Beryllium	mg/L	85%	6	6	5	3	20	0.970	0.949	0.952	2	0	0	1	3	0.221	0.582	0.601
41_1_4_106	MW-31	Appendix IV	Cadmium	mg/L	95%	6	6	5	3	20	0.496	0.275	0.246	1	0	0	0	1	NA	NA	NA
41_1_4_109	MW-31	Appendix IV	Chromium, Total	mg/L	0%	6	6	5	3	20	0.369	0.678	0.573	6	6	5	3	20	0.369	0.678	0.573
41_1_4_110	MW-31	Appendix IV	Cobalt	mg/L	15%	6	6	5	3	20	0.884	0.678	0.796	5	4	5	3	17	0.792	0.621	0.654
41_1_4_113	MW-31	Appendix IV	Fluoride (App IV)	mg/L	0%	6	6	5	3	20	0.638	0.821	0.846	6	6	5	3	20	0.638	0.821	0.846
41_1_4_115	MW-31	Appendix IV	Lead	mg/L	70%	6	6	5	3	20	0.934	0.928	0.951	1	1	3	1	6	0.207	0.009 **	0.016 *
41_1_4_116	MW-31	Appendix IV	Lithium	mg/L	0%	6	6	5	3	20	0.385	0.642	0.556	6	6	5	3	20	0.385	0.642	0.556
41_1_4_117	MW-31	Appendix IV	Mercury	ng/L	70%	6	6	5	3	20	0.766	0.879	0.846	1	2	2	1	6	0.232	0.289	0.467
41_1_4_118	MW-31	Appendix IV	Molybdenum	mg/L	0%	6	6	5	3	20	0.319	0.629	0.485	6	6	5	3	20	0.319	0.629	0.485
41_1_4_121	MW-31	Appendix IV	Radium 226 and 228	pCi/L	40%	6	6	5	3	20	0.953	0.998	0.992	3	4	5	0	12	0.880	0.978	0.992
41_1_4_122	MW-31	Appendix IV	Selenium	mg/L	30%	6	6	5	3	20	0.530	0.537	0.480	2	4	5	3	14	0.199	0.082	0.031 *
41_1_4_125	MW-31	Appendix IV	Thallium	mg/L	95%	6	6	5	3	20	0.506	0.540	0.540	1	0	0	0	1	NA	NA	NA
41_1_5_111	MW-31	Part 115	Copper	mg/L	50%	6	6	5	3	20	0.748	0.752	0.811	2	3	3	2	10	0.958	0.524	0.764
41_1_5_114	MW-31	Part 115	Iron	mg/L	0%	6	6	5	3	20	0.283	0.311	0.305	6	6	5	3	20	0.283	0.311	0.305
41_1_5_119	MW-31	Part 115	Nickel	mg/L	50%	6	6	5	3	20	0.594	0.641	0.587	3	2	3	2	10	0.611	0.703	0.734
41_1_5_123	MW-31	Part 115	Silver	mg/L	100%	6	6	5	3	20	NA	0.540	0.540	NA	NA	NA	NA	NA	NA	NA	NA
41_1_5_128	MW-31	Part 115	Vanadium	mg/L	60%	6	6	5	3	20	0.987	0.746	0.767	1	2	3	2	8	0.868	0.901	0.896
41_1_5_129	MW-31	Part 115	Zinc	mg/L	45%	6	6	5	3	20	0.949	0.910	0.921	3	4	2	2	11	0.596	0.760	0.673
42_1_3_105	MW-32	Appendix III	Boron	mg/L	0%	5	6	5	4	20	0.005 **	0.000 ***	0.000 ***	5	6	5	4	20	0.005 **	0.000 ***	0.000 ***
42_1_3_107	MW-32	Appendix III	Calcium	mg/L	0%	5	6	5	4	20	0.020 *	0.014 *	0.009 **	5	6	5	4	20	0.020 *	0.014 *	0.009 **
42_1_3_108	MW-32	Appendix III	Chloride (as Cl)	mg/L	0%	5	6	5	4	20	0.141	0.143	0.170	5	6	5	4	20	0.141	0.143	0.170
42_1_3_112	MW-32	Appendix III	Fluoride	mg/L	0%	5	6	5	4	20	0.426	0.304	0.360	5	6	5	4	20	0.426	0.304	0.360
42_1_3_120	MW-32	Appendix III	pH (field)	su	0%	5	6	5	4	20	0.579	0.562	0.561	5	6	5	4	20	0.579	0.562	0.561
42_1_3_124	MW-32	Appendix III	Sulfate (as SO4)	mg/L	0%	5	6	5	4	20	0.005 **	0.006 **	0.002 **	5	6	5	4	20	0.005 **	0.006 **	0.002 **
42_1_3_126	MW-32	Appendix III	Total Dissolved Solids	mg/L	0%	5	6	5	4	20	0.015 *	0.004 **	0.003 **	5	6	5	4	20	0.015 *	0.004 **	0.003 **
42_1_4_101	MW-32	Appendix IV	Antimony	mg/L	80%	5	6	5	4	20	0.785	0.594	0.954	1	2	0	1	4	0.259	0.091	0.249
42_1_4_102	MW-32	Appendix IV	Arsenic	mg/L	0%	5	6	5	4	20	0.057	0.584	0.627	5	6	5	4	20	0.057	0.584	0.627
42_1_4_103	MW-32	Appendix IV	Barium	mg/L	0%	5	6	5	4	20	0.087	0.047 *	0.192	5	6	5	4	20	0.087	0.047 *	0.192
42_1_4_104	MW-32	Appendix IV	Beryllium	mg/L	95%	5	6	5	4	20	0.835	0.794	0.813	1	0	0	0	1	NA	NA	NA
42_1_4_106	MW-32	Appendix IV	Cadmium	mg/L	80%	5	6	5	4	20	0.819	0.825	0.931	2	1	1	0	4	0.259	0.039 *	0.043 *
42_1_4_109	MW-32	Appendix IV	Chromium, Total	mg/L	0%	5	6	5	4	20	0.061	0.277	0.136	5	6	5	4	20	0.061	0.277	0.136
42_1_4_110	MW-32	Appendix IV	Cobalt	mg/L	0%	5	6	5	4	20	0.225	0.913	0.941	5	6	5	4	20	0.225	0.913	0.941

(Table continues on next page)

*** p < 0.001, ** p < 0.01, * p < 0.05

Table 7: Seasonality Tests *(continued)*

						Full								Without Non-Detects							
						Sample Size					p-Value			Sample Size					p-Value		
ID	Well	Constituent Type	Constituent	Unit	% NDs	Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA	Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA
42_1_4_113	MW-32	Appendix IV	Fluoride (App IV)	mg/L	0%	5	6	5	4	20	0.426	0.304	0.360	5	6	5	4	20	0.426	0.304	0.360
42_1_4_115	MW-32	Appendix IV	Lead	mg/L	75%	5	6	5	4	20	0.862	0.752	0.782	1	1	2	1	5	0.362	0.717	0.703
42_1_4_116	MW-32	Appendix IV	Lithium	mg/L	0%	5	6	5	4	20	0.001 **	0.000 ***	0.000 ***	5	6	5	4	20	0.001 **	0.000 ***	0.000 ***
42_1_4_117	MW-32	Appendix IV	Mercury	ng/L	75%	5	6	5	4	20	0.990	0.601	0.972	1	1	2	1	5	0.284	0.000 ***	0.062
42_1_4_118	MW-32	Appendix IV	Molybdenum	mg/L	0%	5	6	5	4	20	0.688	0.835	0.929	5	6	5	4	20	0.688	0.835	0.929
42_1_4_121	MW-32	Appendix IV	Radium 226 and 228	pCi/L	45%	5	6	5	4	20	0.249	0.404	0.440	2	3	3	3	11	0.376	0.608	0.703
42_1_4_122	MW-32	Appendix IV	Selenium	mg/L	80%	5	6	5	4	20	0.200	0.289	0.196	1	1	0	2	4	0.407	0.037 *	0.129
42_1_4_125	MW-32	Appendix IV	Thallium	mg/L	100%	5	6	5	4	20	NA	0.273	NA	NA	NA	NA	NA	NA	NA	NA	NA
42_1_5_111	MW-32	Part 115	Copper	mg/L	60%	5	6	5	4	20	0.650	0.429	0.556	2	2	2	2	8	0.475	0.486	0.573
42_1_5_114	MW-32	Part 115	Iron	mg/L	0%	5	6	5	4	20	0.127	0.150	0.121	5	6	5	4	20	0.127	0.150	0.121
42_1_5_119	MW-32	Part 115	Nickel	mg/L	0%	5	6	5	4	20	0.298	0.462	0.307	5	6	5	4	20	0.298	0.462	0.307
42_1_5_123	MW-32	Part 115	Silver	mg/L	100%	5	6	5	4	20	NA	0.273	0.273	NA	NA	NA	NA	NA	NA	NA	NA
42_1_5_128	MW-32	Part 115	Vanadium	mg/L	100%	5	6	5	4	20	0.839	0.862	0.862	NA	NA	NA	NA	NA	NA	NA	NA
42_1_5_129	MW-32	Part 115	Zinc	mg/L	0%	5	6	5	4	20	0.667	0.686	0.758	5	6	5	4	20	0.667	0.686	0.758
46_1_3_105	MW-36	Appendix III	Boron	mg/L	0%	2	3	3	2	10	0.067	0.007 **	0.009 **	2	3	3	2	10	0.067	0.007 **	0.009 **
46_1_3_107	MW-36	Appendix III	Calcium	mg/L	0%	2	3	3	2	10	0.603	0.753	0.739	2	3	3	2	10	0.603	0.753	0.739
46_1_3_108	MW-36	Appendix III	Chloride (as Cl)	mg/L	0%	2	3	3	2	10	0.957	0.921	0.908	2	3	3	2	10	0.957	0.921	0.908
46_1_3_112	MW-36	Appendix III	Fluoride	mg/L	0%	2	3	3	2	10	0.458	0.575	0.595	2	3	3	2	10	0.458	0.575	0.595
46_1_3_120	MW-36	Appendix III	pH (field)	su	0%	2	3	3	2	10	0.261	0.223	0.204	2	3	3	2	10	0.261	0.223	0.204
46_1_3_124	MW-36	Appendix III	Sulfate (as SO4)	mg/L	0%	2	3	3	2	10	0.814	0.854	0.861	2	3	3	2	10	0.814	0.854	0.861
46_1_3_126	MW-36	Appendix III	Total Dissolved Solids	mg/L	0%	2	3	3	2	10	0.236	0.319	0.350	2	3	3	2	10	0.236	0.319	0.350
46_1_4_101	MW-36	Appendix IV	Antimony	mg/L	0%	2	3	3	2	10	0.826	0.626	0.752	2	3	3	2	10	0.826	0.626	0.752
46_1_4_102	MW-36	Appendix IV	Arsenic	mg/L	0%	2	3	3	2	10	0.486	0.657	0.582	2	3	3	2	10	0.486	0.657	0.582
46_1_4_103	MW-36	Appendix IV	Barium	mg/L	0%	2	3	3	2	10	0.382	0.421	0.366	2	3	3	2	10	0.382	0.421	0.366
46_1_4_104	MW-36	Appendix IV	Beryllium	mg/L	90%	2	3	3	2	10	0.400	0.698	0.677	0	1	0	0	1	NA	NA	NA
46_1_4_106	MW-36	Appendix IV	Cadmium	mg/L	20%	2	3	3	2	10	0.813	0.781	0.886	2	2	2	2	8	0.572	0.620	0.730
46_1_4_109	MW-36	Appendix IV	Chromium, Total	mg/L	0%	2	3	3	2	10	0.540	0.563	0.508	2	3	3	2	10	0.540	0.563	0.508
46_1_4_110	MW-36	Appendix IV	Cobalt	mg/L	0%	2	3	3	2	10	0.366	0.601	0.581	2	3	3	2	10	0.366	0.601	0.581
46_1_4_113	MW-36	Appendix IV	Fluoride (App IV)	mg/L	0%	2	3	3	2	10	0.458	0.575	0.595	2	3	3	2	10	0.458	0.575	0.595
46_1_4_115	MW-36	Appendix IV	Lead	mg/L	0%	2	3	3	2	10	0.623	0.759	0.805	2	3	3	2	10	0.623	0.759	0.805
46_1_4_116	MW-36	Appendix IV	Lithium	mg/L	0%	2	3	3	2	10	0.126	0.066	0.076	2	3	3	2	10	0.126	0.066	0.076
46_1_4_117	MW-36	Appendix IV	Mercury	ng/L	40%	2	3	3	2	10	0.821	0.979	0.968	1	2	2	1	6	0.312	0.383	0.364
46_1_4_118	MW-36	Appendix IV	Molybdenum	mg/L	0%	2	3	3	2	10	0.682	0.692	0.665	2	3	3	2	10	0.682	0.692	0.665
46_1_4_121	MW-36	Appendix IV	Radium 226 and 228	pCi/L	78%	1	3	3	2	9	0.490	0.955	0.929	0	0	1	1	2	0.317	NA	NA
46_1_4_122	MW-36	Appendix IV	Selenium	mg/L	0%	2	3	3	2	10	0.814	0.733	0.692	2	3	3	2	10	0.814	0.733	0.692
46_1_4_125	MW-36	Appendix IV	Thallium	mg/L	100%	2	3	3	2	10	NA	NA	0.586	NA	NA	NA	NA	NA	NA	NA	NA
46_1_5_111	MW-36	Part 115	Copper	mg/L	0%	2	3	3	2	10	0.593	0.846	0.869	2	3	3	2	10	0.593	0.846	0.869
46_1_5_114	MW-36	Part 115	Iron	mg/L	0%	2	3	3	2	10	0.320	0.509	0.547	2	3	3	2	10	0.320	0.509	0.547
46_1_5_119	MW-36	Part 115	Nickel	mg/L	0%	2	3	3	2	10	0.426	0.617	0.601	2	3	3	2	10	0.426	0.617	0.601

(Table continues on next page)

*** p < 0.001, ** p < 0.01, * p < 0.05

Table 7: Seasonality Tests *(continued)*

						Full								Without Non-Detects							
						Sample Size					p-Value			Sample Size					p-Value		
ID	Well	Constituent Type	Constituent	Unit	% NDs	Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA	Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA
46_1_5_123	MW-36	Part 115	Silver	mg/L	10%	2	3	3	2	10	0.624	0.743	0.852	2	2	3	2	9	0.904	0.827	0.940
46_1_5_128	MW-36	Part 115	Vanadium	mg/L	0%	2	3	3	2	10	0.352	0.448	0.423	2	3	3	2	10	0.352	0.448	0.423
46_1_5_129	MW-36	Part 115	Zinc	mg/L	0%	2	3	3	2	10	0.584	0.706	0.694	2	3	3	2	10	0.584	0.706	0.694
47_1_3_105	MW-37	Appendix III	Boron	mg/L	0%	2	3	3	2	10	0.507	0.547	0.703	2	3	3	2	10	0.507	0.547	0.703
47_1_3_107	MW-37	Appendix III	Calcium	mg/L	0%	2	3	3	2	10	0.213	0.163	0.198	2	3	3	2	10	0.213	0.163	0.198
47_1_3_108	MW-37	Appendix III	Chloride (as Cl)	mg/L	0%	2	3	3	2	10	0.430	0.455	0.660	2	3	3	2	10	0.430	0.455	0.660
47_1_3_112	MW-37	Appendix III	Fluoride	mg/L	0%	2	3	3	2	10	0.720	0.664	0.625	2	3	3	2	10	0.720	0.664	0.625
47_1_3_120	MW-37	Appendix III	pH (field)	su	0%	2	3	3	2	10	0.207	0.139	0.138	2	3	3	2	10	0.207	0.139	0.138
47_1_3_124	MW-37	Appendix III	Sulfate (as SO4)	mg/L	0%	2	3	3	2	10	0.068	0.039 *	0.029 *	2	3	3	2	10	0.068	0.039 *	0.029 *
47_1_3_126	MW-37	Appendix III	Total Dissolved Solids	mg/L	0%	2	3	3	2	10	0.261	0.356	0.374	2	3	3	2	10	0.261	0.356	0.374
47_1_4_101	MW-37	Appendix IV	Antimony	mg/L	10%	2	3	3	2	10	0.119	0.261	0.148	1	3	3	2	9	0.239	0.391	0.320
47_1_4_102	MW-37	Appendix IV	Arsenic	mg/L	0%	2	3	3	2	10	0.685	0.713	0.797	2	3	3	2	10	0.685	0.713	0.797
47_1_4_103	MW-37	Appendix IV	Barium	mg/L	0%	2	3	3	2	10	0.188	0.221	0.262	2	3	3	2	10	0.188	0.221	0.262
47_1_4_104	MW-37	Appendix IV	Beryllium	mg/L	90%	2	3	3	2	10	0.815	0.873	0.875	1	0	0	0	1	NA	NA	NA
47_1_4_106	MW-37	Appendix IV	Cadmium	mg/L	50%	2	3	3	2	10	0.408	0.497	0.520	0	2	2	1	5	0.206	0.402	0.441
47_1_4_109	MW-37	Appendix IV	Chromium, Total	mg/L	0%	2	3	3	2	10	0.339	0.463	0.480	2	3	3	2	10	0.339	0.463	0.480
47_1_4_110	MW-37	Appendix IV	Cobalt	mg/L	0%	2	3	3	2	10	0.801	0.961	0.932	2	3	3	2	10	0.801	0.961	0.932
47_1_4_113	MW-37	Appendix IV	Fluoride (App IV)	mg/L	0%	2	3	3	2	10	0.720	0.664	0.625	2	3	3	2	10	0.720	0.664	0.625
47_1_4_115	MW-37	Appendix IV	Lead	mg/L	20%	2	3	3	2	10	0.387	0.326	0.547	1	3	3	1	8	0.245	0.000 ***	0.083
47_1_4_116	MW-37	Appendix IV	Lithium	mg/L	0%	2	3	3	2	10	0.256	0.470	0.350	2	3	3	2	10	0.256	0.470	0.350
47_1_4_117	MW-37	Appendix IV	Mercury	ng/L	40%	2	3	3	2	10	0.815	0.978	0.940	1	2	2	1	6	0.290	0.055	0.123
47_1_4_118	MW-37	Appendix IV	Molybdenum	mg/L	0%	2	3	3	2	10	0.037 *	0.005 **	0.002 **	2	3	3	2	10	0.037 *	0.005 **	0.002 **
47_1_4_121	MW-37	Appendix IV	Radium 226 and 228	pCi/L	50%	2	3	3	2	10	0.223	0.251	0.259	2	2	1	0	5	0.165	0.116	0.103
47_1_4_122	MW-37	Appendix IV	Selenium	mg/L	0%	2	3	3	2	10	0.148	0.296	0.206	2	3	3	2	10	0.148	0.296	0.206
47_1_4_125	MW-37	Appendix IV	Thallium	mg/L	90%	2	3	3	2	10	0.506	0.586	0.586	0	0	1	0	1	NA	NA	NA
47_1_5_111	MW-37	Part 115	Copper	mg/L	0%	2	3	3	2	10	0.072	0.127	0.048 *	2	3	3	2	10	0.072	0.127	0.048 *
47_1_5_114	MW-37	Part 115	Iron	mg/L	10%	2	3	3	2	10	0.296	0.131	0.440	2	3	2	2	9	0.372	0.224	0.577
47_1_5_119	MW-37	Part 115	Nickel	mg/L	0%	2	3	3	2	10	0.281	0.408	0.370	2	3	3	2	10	0.281	0.408	0.370
47_1_5_123	MW-37	Part 115	Silver	mg/L	90%	2	3	3	2	10	0.261	0.285	0.285	0	0	0	1	1	NA	NA	NA
47_1_5_128	MW-37	Part 115	Vanadium	mg/L	50%	2	3	3	2	10	0.504	0.615	0.681	2	0	2	1	5	0.368	0.462	0.538
47_1_5_129	MW-37	Part 115	Zinc	mg/L	0%	2	3	3	2	10	0.973	0.937	0.952	2	3	3	2	10	0.973	0.937	0.952
48_2_3_105	MW-38	Appendix III	Boron	mg/L	0%	2	3	3	2	10	0.112	0.084	0.285	2	3	3	2	10	0.112	0.084	0.285
48_2_3_107	MW-38	Appendix III	Calcium	mg/L	0%	2	3	3	2	10	0.332	0.497	0.378	2	3	3	2	10	0.332	0.497	0.378
48_2_3_108	MW-38	Appendix III	Chloride (as Cl)	mg/L	0%	2	3	3	2	10	0.521	0.651	0.490	2	3	3	2	10	0.521	0.651	0.490
48_2_3_112	MW-38	Appendix III	Fluoride	mg/L	0%	2	3	3	2	10	0.077	0.145	0.091	2	3	3	2	10	0.077	0.145	0.091
48_2_3_120	MW-38	Appendix III	pH (field)	su	0%	2	3	3	2	10	0.451	0.587	0.593	2	3	3	2	10	0.451	0.587	0.593
48_2_3_124	MW-38	Appendix III	Sulfate (as SO4)	mg/L	0%	2	3	3	2	10	0.852	0.882	0.931	2	3	3	2	10	0.852	0.882	0.931
48_2_3_126	MW-38	Appendix III	Total Dissolved Solids	mg/L	0%	2	3	3	2	10	0.164	0.438	0.286	2	3	3	2	10	0.164	0.438	0.286
48_2_4_101	MW-38	Appendix IV	Antimony	mg/L	20%	2	3	3	2	10	0.655	0.598	0.610	2	2	3	1	8	0.969	0.895	0.995

(Table continues on next page)

*** p < 0.001, ** p < 0.01, * p < 0.05

Table 7: Seasonality Tests *(continued)*

						Full								Without Non-Detects								
						Sample Size					p-Value			Sample Size					p-Value			
ID	Well	Constituent Type	Constituent	Unit	% NDs	Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA	Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA	
48_2_4_102	MW-38	Appendix IV	Arsenic	mg/L	0%	2	3	3	2	10	0.519	0.482	0.653	2	3	3	2	10	0.519	0.482	0.653	
48_2_4_103	MW-38	Appendix IV	Barium	mg/L	0%	2	3	3	2	10	0.442	0.576	0.701	2	3	3	2	10	0.442	0.576	0.701	
48_2_4_104	MW-38	Appendix IV	Beryllium	mg/L	70%	2	3	3	2	10	0.497	0.655	0.762	0	0	1	2	3	1.000	0.886	0.927	
48_2_4_106	MW-38	Appendix IV	Cadmium	mg/L	40%	2	3	3	2	10	0.521	0.581	0.623	2	1	2	1	6	0.277	0.509	0.377	
48_2_4_109	MW-38	Appendix IV	Chromium, Total	mg/L	10%	2	3	3	2	10	0.239	0.351	0.245	2	2	3	2	9	0.438	0.619	0.551	
48_2_4_110	MW-38	Appendix IV	Cobalt	mg/L	0%	2	3	3	2	10	0.986	0.731	0.933	2	3	3	2	10	0.986	0.731	0.933	
48_2_4_113	MW-38	Appendix IV	Fluoride (App IV)	mg/L	0%	2	3	3	2	10	0.077	0.145	0.091	2	3	3	2	10	0.077	0.145	0.091	
48_2_4_115	MW-38	Appendix IV	Lead	mg/L	10%	2	3	3	2	10	0.467	0.308	0.431	2	3	3	1	9	0.473	0.428	0.501	
48_2_4_116	MW-38	Appendix IV	Lithium	mg/L	0%	2	3	3	2	10	0.397	0.639	0.666	2	3	3	2	10	0.397	0.639	0.666	
48_2_4_117	MW-38	Appendix IV	Mercury	ng/L	40%	2	3	3	2	10	0.613	0.957	0.824	1	2	2	1	6	0.232	0.160	0.140	
48_2_4_118	MW-38	Appendix IV	Molybdenum	mg/L	0%	2	3	3	2	10	0.424	0.542	0.298	2	3	3	2	10	0.424	0.542	0.298	
48_2_4_121	MW-38	Appendix IV	Radium 226 and 228	pCi/L	56%	1	3	3	2	9	0.634	0.767	0.761	0	2	1	1	4	0.407	0.519	0.414	
48_2_4_122	MW-38	Appendix IV	Selenium	mg/L	0%	2	3	3	2	10	0.183	0.150	0.131	2	3	3	2	10	0.183	0.150	0.131	
48_2_4_125	MW-38	Appendix IV	Thallium	mg/L	100%	2	3	3	2	10	0.487	0.564	0.564	NA	NA	NA	NA	NA	NA	NA	NA	
48_2_5_111	MW-38	Part 115	Copper	mg/L	10%	2	3	3	2	10	0.762	0.759	0.571	2	3	3	1	9	0.993	0.940	0.996	
48_2_5_114	MW-38	Part 115	Iron	mg/L	0%	2	3	3	2	10	0.231	0.326	0.214	2	3	3	2	10	0.231	0.326	0.214	
48_2_5_119	MW-38	Part 115	Nickel	mg/L	0%	2	3	3	2	10	0.609	0.703	0.524	2	3	3	2	10	0.609	0.703	0.524	
48_2_5_123	MW-38	Part 115	Silver	mg/L	60%	2	3	3	2	10	0.841	0.752	0.764	1	0	2	1	4	0.223	0.000	***	0.000	***
48_2_5_128	MW-38	Part 115	Vanadium	mg/L	20%	2	3	3	2	10	0.403	0.446	0.296	2	2	3	1	8	0.741	0.814		0.737	
48_2_5_129	MW-38	Part 115	Zinc	mg/L	10%	2	3	3	2	10	0.672	0.875	0.566	2	3	3	1	9	0.973	0.998		0.954	

*** p < 0.001, ** p < 0.01, * p < 0.05

Table 8: Trend Tests: Lognormal MLE and MK

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Type	Method	Slope	p-value	Trend
11_2_3_105	MW-01R	Appendix III	Boron	mg/L	20	0	0%	Parametric	Lognormal MLE	0.000123	0.532	↔
11_2_3_107	MW-01R	Appendix III	Calcium	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.0000717	0.673	↔
11_2_3_108	MW-01R	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.000288	0.188	↔
11_2_3_112	MW-01R	Appendix III	Fluoride	mg/L	20	0	0%	Parametric	Lognormal MLE	0.0000884	0.611	↔
11_2_3_120	MW-01R	Appendix III	pH (field)	su	20	0	0%	Nonparametric	MK	-0.0000273	0.494	↔
11_2_3_124	MW-01R	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.000176	0.767	↔
11_2_3_126	MW-01R	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	Parametric	Lognormal MLE	0.0000499	0.048	↔
11_2_4_102	MW-01R	Appendix IV	Arsenic	mg/L	20	0	0%	Nonparametric	MK	0	0.691	↔
11_2_4_103	MW-01R	Appendix IV	Barium	mg/L	20	0	0%	Parametric	Lognormal MLE	0.000377	0.028	↔
11_2_4_104	MW-01R	Appendix IV	Beryllium	mg/L	20	2	10%	Parametric	Lognormal MLE	-0.000115	0.728	↔
11_2_4_109	MW-01R	Appendix IV	Chromium, Total	mg/L	20	0	0%	Parametric	Lognormal MLE	0.0000732	0.820	↔
11_2_4_110	MW-01R	Appendix IV	Cobalt	mg/L	20	0	0%	Nonparametric	MK	0.000000626	0.240	↔
11_2_4_113	MW-01R	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	Parametric	Lognormal MLE	0.0000884	0.611	↔
11_2_4_115	MW-01R	Appendix IV	Lead	mg/L	20	2	10%	Parametric	Lognormal MLE	0.000843	0.048	↔
11_2_4_116	MW-01R	Appendix IV	Lithium	mg/L	20	0	0%	Parametric	Lognormal MLE	0.0000907	0.639	↔
11_2_4_122	MW-01R	Appendix IV	Selenium	mg/L	20	0	0%	Nonparametric	MK	0.000000165	0.091	↔
11_2_5_111	MW-01R	Part 115	Copper	mg/L	20	6	30%	Nonparametric	MK	0.000000171	0.004	↑
11_2_5_114	MW-01R	Part 115	Iron	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.000518	0.300	↔
11_2_5_119	MW-01R	Part 115	Nickel	mg/L	20	0	0%	Nonparametric	MK	0.00000116	0.059	↔
11_2_5_128	MW-01R	Part 115	Vanadium	mg/L	20	2	10%	Parametric	Lognormal MLE	0.00102	0.000	↑
11_2_5_129	MW-01R	Part 115	Zinc	mg/L	20	3	15%	Parametric	Lognormal MLE	0.00206	0.006	↑
12_2_3_105	MW-02	Appendix III	Boron	mg/L	20	0	0%	Parametric	Lognormal MLE	0.000132	0.354	↔
12_2_3_107	MW-02	Appendix III	Calcium	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.000147	0.003	↓
12_2_3_108	MW-02	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	Nonparametric	MK	0	0.105	↔
12_2_3_112	MW-02	Appendix III	Fluoride	mg/L	20	0	0%	Nonparametric	MK	0.00318	0.004	↑
12_2_3_120	MW-02	Appendix III	pH (field)	su	20	0	0%	Parametric	Lognormal MLE	-0.00000660	0.329	↔
12_2_3_126	MW-02	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	Parametric	Lognormal MLE	0.000127	0.033	↔
12_2_4_101	MW-02	Appendix IV	Antimony	mg/L	20	3	15%	Parametric	Lognormal MLE	-0.000101	0.691	↔
12_2_4_102	MW-02	Appendix IV	Arsenic	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.000228	0.499	↔
12_2_4_103	MW-02	Appendix IV	Barium	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.0000266	0.784	↔
12_2_4_104	MW-02	Appendix IV	Beryllium	mg/L	20	2	10%	Parametric	Lognormal MLE	-0.000349	0.244	↔
12_2_4_109	MW-02	Appendix IV	Chromium, Total	mg/L	20	0	0%	Parametric	Lognormal MLE	0.0000315	0.956	↔
12_2_4_110	MW-02	Appendix IV	Cobalt	mg/L	20	0	0%	Parametric	Lognormal MLE	0.000203	0.621	↔
12_2_4_113	MW-02	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	Nonparametric	MK	0.00318	0.004	↑
12_2_4_115	MW-02	Appendix IV	Lead	mg/L	20	1	5%	Parametric	Lognormal MLE	-0.000372	0.484	↔
12_2_4_116	MW-02	Appendix IV	Lithium	mg/L	20	0	0%	Parametric	Lognormal MLE	0.000129	0.301	↔
12_2_4_118	MW-02	Appendix IV	Molybdenum	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.0000842	0.807	↔
12_2_4_121	MW-02	Appendix IV	Radium 226 and 228	pCi/L	19	6	32%	Parametric	Lognormal MLE	-0.000285	0.303	↔
12_2_4_122	MW-02	Appendix IV	Selenium	mg/L	20	0	0%	Parametric	Lognormal MLE	0.000250	0.206	↔
12_2_5_111	MW-02	Part 115	Copper	mg/L	20	0	0%	Parametric	Lognormal MLE	0.000225	0.507	↔
12_2_5_114	MW-02	Part 115	Iron	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.0000585	0.466	↔
12_2_5_119	MW-02	Part 115	Nickel	mg/L	20	0	0%	Nonparametric	MK	0.00000435	0.515	↔
12_2_5_128	MW-02	Part 115	Vanadium	mg/L	20	1	5%	Parametric	Lognormal MLE	0.000135	0.696	↔

(Table continues on next page)

Table 8: Trend Tests: Lognormal MLE and MK *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Type	Method	Slope	p-value	Trend
12_2_5_129	MW-02	Part 115	Zinc	mg/L	20	0	0%	Nonparametric	MK	0.00000159	0.363	↔
13_2_3_105	MW-03	Appendix III	Boron	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.0000739	0.079	↔
13_2_3_107	MW-03	Appendix III	Calcium	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.000143	0.001	↓
13_2_3_108	MW-03	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.000665	0.000	↓
13_2_3_112	MW-03	Appendix III	Fluoride	mg/L	20	0	0%	Nonparametric	MK	0.000169	0.006	↑
13_2_3_120	MW-03	Appendix III	pH (field)	su	20	0	0%	Parametric	Lognormal MLE	-0.00000203	0.740	↔
13_2_3_124	MW-03	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.00143	0.000	↓
13_2_3_126	MW-03	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	Nonparametric	MK	-0.538	0.000	↓
13_2_4_102	MW-03	Appendix IV	Arsenic	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.000151	0.333	↔
13_2_4_103	MW-03	Appendix IV	Barium	mg/L	20	0	0%	Parametric	Lognormal MLE	0.00000162	0.991	↔
13_2_4_109	MW-03	Appendix IV	Chromium, Total	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.000341	0.002	↓
13_2_4_110	MW-03	Appendix IV	Cobalt	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.000184	0.329	↔
13_2_4_113	MW-03	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	Nonparametric	MK	0.000169	0.006	↑
13_2_4_116	MW-03	Appendix IV	Lithium	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.000382	0.000	↓
13_2_4_121	MW-03	Appendix IV	Radium 226 and 228	pCi/L	19	3	16%	Parametric	Lognormal MLE	-0.000417	0.013	↔
13_2_4_122	MW-03	Appendix IV	Selenium	mg/L	20	3	15%	Parametric	Lognormal MLE	0.000121	0.515	↔
13_2_5_111	MW-03	Part 115	Copper	mg/L	20	9	45%	Parametric	Lognormal MLE	0.000310	0.525	↔
13_2_5_114	MW-03	Part 115	Iron	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.00152	0.002	↓
13_2_5_119	MW-03	Part 115	Nickel	mg/L	20	1	5%	Nonparametric	MK	-0.000000371	0.204	↔
13_2_5_128	MW-03	Part 115	Vanadium	mg/L	20	9	45%	Parametric	Lognormal MLE	0.00116	0.001	↑
14_2_3_105	MW-04	Appendix III	Boron	mg/L	20	0	0%	Nonparametric	MK	-0.000842	0.134	↔
14_2_3_107	MW-04	Appendix III	Calcium	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.0000295	0.713	↔
14_2_3_108	MW-04	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.00181	0.000	↓
14_2_3_112	MW-04	Appendix III	Fluoride	mg/L	20	0	0%	Parametric	Lognormal MLE	0.000294	0.003	↑
14_2_3_120	MW-04	Appendix III	pH (field)	su	20	0	0%	Parametric	Lognormal MLE	-0.0000349	0.001	↓
14_2_3_124	MW-04	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	Parametric	Lognormal MLE	0.000795	0.218	↔
14_2_3_126	MW-04	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.000201	0.017	↔
14_2_4_102	MW-04	Appendix IV	Arsenic	mg/L	20	0	0%	Nonparametric	MK	0.000000169	0.181	↔
14_2_4_103	MW-04	Appendix IV	Barium	mg/L	20	0	0%	Nonparametric	MK	-0.0000126	0.154	↔
14_2_4_109	MW-04	Appendix IV	Chromium, Total	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.000762	0.000	↓
14_2_4_110	MW-04	Appendix IV	Cobalt	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.0000512	0.891	↔
14_2_4_113	MW-04	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	Parametric	Lognormal MLE	0.000294	0.003	↑
14_2_4_116	MW-04	Appendix IV	Lithium	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.000330	0.003	↓
14_2_4_121	MW-04	Appendix IV	Radium 226 and 228	pCi/L	20	7	35%	Parametric	Lognormal MLE	-0.000657	0.000	↓
14_2_4_122	MW-04	Appendix IV	Selenium	mg/L	20	5	25%	Parametric	Lognormal MLE	0.000294	0.395	↔
14_2_5_114	MW-04	Part 115	Iron	mg/L	20	0	0%	Nonparametric	MK	-0.00120	0.073	↔
14_2_5_119	MW-04	Part 115	Nickel	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.000393	0.221	↔
16_1_3_105	MW-06	Appendix III	Boron	mg/L	20	0	0%	Parametric	Lognormal MLE	0.0000182	0.837	↔
16_1_3_107	MW-06	Appendix III	Calcium	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.000212	0.000	↓
16_1_3_108	MW-06	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.000850	0.002	↓
16_1_3_112	MW-06	Appendix III	Fluoride	mg/L	20	0	0%	Parametric	Lognormal MLE	0.000198	0.006	↑
16_1_3_120	MW-06	Appendix III	pH (field)	su	20	0	0%	Nonparametric	MK	0.000143	0.015	↔
16_1_3_124	MW-06	Appendix III	Sulfate (as SO4)	mg/L	20	2	10%	Parametric	Lognormal MLE	0.000941	0.203	↔

(Table continues on next page)

Table 8: Trend Tests: Lognormal MLE and MK *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Type	Method	Slope	p-value	Trend
16_1_3_126	MW-06	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	Nonparametric	MK	0	0.021	↔
16_1_4_102	MW-06	Appendix IV	Arsenic	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.0000656	0.628	↔
16_1_4_103	MW-06	Appendix IV	Barium	mg/L	20	0	0%	Nonparametric	MK	0	0.360	↔
16_1_4_109	MW-06	Appendix IV	Chromium, Total	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.000434	0.000	↓
16_1_4_110	MW-06	Appendix IV	Cobalt	mg/L	20	0	0%	Nonparametric	MK	-0.000000152	0.015	↔
16_1_4_113	MW-06	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	Parametric	Lognormal MLE	0.000198	0.006	↑
16_1_4_116	MW-06	Appendix IV	Lithium	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.000218	0.025	↔
16_1_4_121	MW-06	Appendix IV	Radium 226 and 228	pCi/L	20	4	20%	Parametric	Lognormal MLE	-0.0000495	0.807	↔
16_1_4_122	MW-06	Appendix IV	Selenium	mg/L	20	5	25%	Nonparametric	MK	0	0.893	↔
16_1_5_114	MW-06	Part 115	Iron	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.00106	0.000	↓
16_1_5_119	MW-06	Part 115	Nickel	mg/L	20	6	30%	Nonparametric	MK	-0.0000000980	0.248	↔
16_1_5_129	MW-06	Part 115	Zinc	mg/L	20	2	10%	Nonparametric	MK	0.000000643	0.253	↔
17_1_3_105	MW-07	Appendix III	Boron	mg/L	20	0	0%	Nonparametric	MK	-0.00171	0.060	↔
17_1_3_107	MW-07	Appendix III	Calcium	mg/L	20	0	0%	Parametric	Lognormal MLE	0.0000944	0.013	↔
17_1_3_108	MW-07	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	Nonparametric	MK	0.00173	0.012	↔
17_1_3_112	MW-07	Appendix III	Fluoride	mg/L	20	4	20%	Parametric	Lognormal MLE	0.000347	0.109	↔
17_1_3_120	MW-07	Appendix III	pH (field)	su	20	0	0%	Parametric	Lognormal MLE	-0.000000507	0.952	↔
17_1_3_124	MW-07	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	Parametric	Lognormal MLE	0.0000578	0.751	↔
17_1_3_126	MW-07	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	Parametric	Lognormal MLE	0.000181	0.000	↑
17_1_4_102	MW-07	Appendix IV	Arsenic	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.000241	0.024	↔
17_1_4_103	MW-07	Appendix IV	Barium	mg/L	20	0	0%	Parametric	Lognormal MLE	0.000161	0.001	↑
17_1_4_109	MW-07	Appendix IV	Chromium, Total	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.0000176	0.881	↔
17_1_4_110	MW-07	Appendix IV	Cobalt	mg/L	20	0	0%	Parametric	Lognormal MLE	0.000174	0.007	↑
17_1_4_113	MW-07	Appendix IV	Fluoride (App IV)	mg/L	20	4	20%	Parametric	Lognormal MLE	0.000347	0.109	↔
17_1_4_116	MW-07	Appendix IV	Lithium	mg/L	20	0	0%	Parametric	Lognormal MLE	0.000143	0.275	↔
17_1_4_121	MW-07	Appendix IV	Radium 226 and 228	pCi/L	20	2	10%	Parametric	Lognormal MLE	-0.000196	0.252	↔
17_1_5_114	MW-07	Part 115	Iron	mg/L	20	0	0%	Parametric	Lognormal MLE	0.000268	0.000	↑
18_1_3_105	MW-08	Appendix III	Boron	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.00000709	0.966	↔
18_1_3_107	MW-08	Appendix III	Calcium	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.000189	0.006	↓
18_1_3_108	MW-08	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	Nonparametric	MK	0.0178	0.019	↔
18_1_3_112	MW-08	Appendix III	Fluoride	mg/L	20	0	0%	Parametric	Lognormal MLE	0.000292	0.054	↔
18_1_3_120	MW-08	Appendix III	pH (field)	su	20	0	0%	Nonparametric	MK	-0.0000163	0.897	↔
18_1_3_124	MW-08	Appendix III	Sulfate (as SO4)	mg/L	20	5	25%	Parametric	Lognormal MLE	0.000949	0.400	↔
18_1_3_126	MW-08	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	Parametric	Lognormal MLE	0.0000180	0.865	↔
18_1_4_102	MW-08	Appendix IV	Arsenic	mg/L	20	0	0%	Parametric	Lognormal MLE	0.000735	0.003	↑
18_1_4_103	MW-08	Appendix IV	Barium	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.000110	0.366	↔
18_1_4_109	MW-08	Appendix IV	Chromium, Total	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.000622	0.000	↓
18_1_4_110	MW-08	Appendix IV	Cobalt	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.000262	0.162	↔
18_1_4_113	MW-08	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	Parametric	Lognormal MLE	0.000292	0.054	↔
18_1_4_116	MW-08	Appendix IV	Lithium	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.000326	0.002	↓
18_1_4_118	MW-08	Appendix IV	Molybdenum	mg/L	20	2	10%	Parametric	Lognormal MLE	-0.000301	0.543	↔
18_1_4_121	MW-08	Appendix IV	Radium 226 and 228	pCi/L	20	5	25%	Parametric	Lognormal MLE	-0.000582	0.004	↓
18_1_4_122	MW-08	Appendix IV	Selenium	mg/L	20	7	35%	Parametric	Lognormal MLE	-0.000302	0.151	↔

(Table continues on next page)

Table 8: Trend Tests: Lognormal MLE and MK *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Type	Method	Slope	p-value	Trend
18_1_5_111	MW-08	Part 115	Copper	mg/L	20	6	30%	Parametric	Lognormal MLE	0.000502	0.078	↔
18_1_5_114	MW-08	Part 115	Iron	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.000863	0.000	↓
18_1_5_119	MW-08	Part 115	Nickel	mg/L	20	0	0%	Parametric	Lognormal MLE	0.000999	0.001	↑
18_1_5_129	MW-08	Part 115	Zinc	mg/L	20	3	15%	Nonparametric	MK	0.00000146	0.134	↔
19_2_3_105	MW-09	Appendix III	Boron	mg/L	20	0	0%	Nonparametric	MK	-0.00100	0.059	↔
19_2_3_107	MW-09	Appendix III	Calcium	mg/L	20	0	0%	Parametric	Lognormal MLE	0.000407	0.000	↑
19_2_3_108	MW-09	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	Parametric	Lognormal MLE	0.00150	0.000	↑
19_2_3_112	MW-09	Appendix III	Fluoride	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.000170	0.015	↔
19_2_3_120	MW-09	Appendix III	pH (field)	su	20	0	0%	Parametric	Lognormal MLE	-0.0000377	0.000	↓
19_2_3_124	MW-09	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	Parametric	Lognormal MLE	0.00122	0.000	↑
19_2_3_126	MW-09	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	Parametric	Lognormal MLE	0.000562	0.000	↑
19_2_4_102	MW-09	Appendix IV	Arsenic	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.000124	0.469	↔
19_2_4_103	MW-09	Appendix IV	Barium	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.00156	0.000	↓
19_2_4_109	MW-09	Appendix IV	Chromium, Total	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.000236	0.058	↔
19_2_4_110	MW-09	Appendix IV	Cobalt	mg/L	20	0	0%	Nonparametric	MK	-0.0000000331	0.770	↔
19_2_4_113	MW-09	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.000170	0.015	↔
19_2_4_116	MW-09	Appendix IV	Lithium	mg/L	20	0	0%	Nonparametric	MK	0.0000251	0.224	↔
19_2_4_118	MW-09	Appendix IV	Molybdenum	mg/L	20	0	0%	Parametric	Lognormal MLE	0.0000503	0.754	↔
19_2_4_122	MW-09	Appendix IV	Selenium	mg/L	20	2	10%	Nonparametric	MK	0.000000241	0.001	↑
19_2_5_114	MW-09	Part 115	Iron	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.000182	0.281	↔
19_2_5_119	MW-09	Part 115	Nickel	mg/L	20	0	0%	Nonparametric	MK	0.00000927	0.002	↑
19_2_5_129	MW-09	Part 115	Zinc	mg/L	20	8	40%	Parametric	Lognormal MLE	0.00256	0.009	↑
20_3_3_105	MW-10	Appendix III	Boron	mg/L	20	0	0%	Parametric	Lognormal MLE	0.000624	0.011	↔
20_3_3_107	MW-10	Appendix III	Calcium	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.0000371	0.824	↔
20_3_3_108	MW-10	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	Parametric	Lognormal MLE	0.000893	0.000	↑
20_3_3_112	MW-10	Appendix III	Fluoride	mg/L	20	0	0%	Parametric	Lognormal MLE	0.0000711	0.637	↔
20_3_3_120	MW-10	Appendix III	pH (field)	su	20	0	0%	Nonparametric	MK	-0.000162	0.104	↔
20_3_3_124	MW-10	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.000958	0.013	↔
20_3_3_126	MW-10	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	Nonparametric	MK	0.0815	0.489	↔
20_3_4_102	MW-10	Appendix IV	Arsenic	mg/L	20	0	0%	Parametric	Lognormal MLE	0.000821	0.002	↑
20_3_4_103	MW-10	Appendix IV	Barium	mg/L	20	0	0%	Parametric	Lognormal MLE	0.000607	0.001	↑
20_3_4_109	MW-10	Appendix IV	Chromium, Total	mg/L	20	0	0%	Parametric	Lognormal MLE	0.000324	0.186	↔
20_3_4_110	MW-10	Appendix IV	Cobalt	mg/L	20	1	5%	Parametric	Lognormal MLE	-0.000123	0.726	↔
20_3_4_113	MW-10	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	Parametric	Lognormal MLE	0.0000711	0.637	↔
20_3_4_116	MW-10	Appendix IV	Lithium	mg/L	20	0	0%	Parametric	Lognormal MLE	0.00000319	0.979	↔
20_3_4_118	MW-10	Appendix IV	Molybdenum	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.000869	0.001	↓
20_3_4_122	MW-10	Appendix IV	Selenium	mg/L	20	1	5%	Parametric	Lognormal MLE	-0.0000899	0.568	↔
20_3_5_114	MW-10	Part 115	Iron	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.000160	0.409	↔
20_3_5_119	MW-10	Part 115	Nickel	mg/L	20	7	35%	Parametric	Lognormal MLE	0.000298	0.163	↔
20_3_5_129	MW-10	Part 115	Zinc	mg/L	20	7	35%	Parametric	Lognormal MLE	0.00163	0.057	↔
21_2_3_105	MW-11	Appendix III	Boron	mg/L	20	0	0%	Parametric	Lognormal MLE	0.000525	0.082	↔
21_2_3_107	MW-11	Appendix III	Calcium	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.000225	0.159	↔
21_2_3_108	MW-11	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.0000762	0.567	↔

(Table continues on next page)

Table 8: Trend Tests: Lognormal MLE and MK *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Type	Method	Slope	p-value	Trend
21_2_3_112	MW-11	Appendix III	Fluoride	mg/L	20	0	0%	Parametric	Lognormal MLE	0.000683	0.012	↔
21_2_3_120	MW-11	Appendix III	pH (field)	su	20	0	0%	Parametric	Lognormal MLE	-0.0000130	0.056	↔
21_2_3_124	MW-11	Appendix III	Sulfate (as SO4)	mg/L	20	7	35%	Parametric	Lognormal MLE	-0.00189	0.159	↔
21_2_3_126	MW-11	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.000145	0.175	↔
21_2_4_102	MW-11	Appendix IV	Arsenic	mg/L	20	0	0%	Parametric	Lognormal MLE	0.000463	0.064	↔
21_2_4_103	MW-11	Appendix IV	Barium	mg/L	20	0	0%	Parametric	Lognormal MLE	0.000288	0.069	↔
21_2_4_109	MW-11	Appendix IV	Chromium, Total	mg/L	20	0	0%	Nonparametric	MK	0.000000248	0.204	↔
21_2_4_110	MW-11	Appendix IV	Cobalt	mg/L	20	0	0%	Parametric	Lognormal MLE	0.0000215	0.950	↔
21_2_4_113	MW-11	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	Parametric	Lognormal MLE	0.000683	0.012	↔
21_2_4_116	MW-11	Appendix IV	Lithium	mg/L	20	0	0%	Parametric	Lognormal MLE	0.000643	0.152	↔
21_2_4_118	MW-11	Appendix IV	Molybdenum	mg/L	20	2	10%	Parametric	Lognormal MLE	0.000480	0.231	↔
21_2_4_121	MW-11	Appendix IV	Radium 226 and 228	pCi/L	19	7	37%	Parametric	Lognormal MLE	-0.000721	0.001	↓
21_2_4_122	MW-11	Appendix IV	Selenium	mg/L	20	3	15%	Parametric	Lognormal MLE	0.000208	0.345	↔
21_2_5_111	MW-11	Part 115	Copper	mg/L	20	4	20%	Nonparametric	MK	0.0000000900	0.471	↔
21_2_5_114	MW-11	Part 115	Iron	mg/L	20	0	0%	Parametric	Lognormal MLE	0.000516	0.006	↑
21_2_5_119	MW-11	Part 115	Nickel	mg/L	20	0	0%	Nonparametric	MK	0.000000607	0.180	↔
21_2_5_129	MW-11	Part 115	Zinc	mg/L	20	4	20%	Parametric	Lognormal MLE	0.00189	0.039	↔
22_2_3_105	MW-12	Appendix III	Boron	mg/L	20	0	0%	Parametric	Lognormal MLE	0.0000211	0.907	↔
22_2_3_107	MW-12	Appendix III	Calcium	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.000201	0.181	↔
22_2_3_108	MW-12	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.000304	0.017	↔
22_2_3_112	MW-12	Appendix III	Fluoride	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.000160	0.237	↔
22_2_3_120	MW-12	Appendix III	pH (field)	su	20	0	0%	Parametric	Lognormal MLE	-0.0000166	0.427	↔
22_2_3_124	MW-12	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.00135	0.000	↓
22_2_3_126	MW-12	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.0000944	0.609	↔
22_2_4_101	MW-12	Appendix IV	Antimony	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.000381	0.223	↔
22_2_4_102	MW-12	Appendix IV	Arsenic	mg/L	20	0	0%	Parametric	Lognormal MLE	0.000323	0.154	↔
22_2_4_103	MW-12	Appendix IV	Barium	mg/L	20	0	0%	Parametric	Lognormal MLE	0.00106	0.000	↑
22_2_4_106	MW-12	Appendix IV	Cadmium	mg/L	20	0	0%	Parametric	Lognormal MLE	0.000736	0.037	↔
22_2_4_109	MW-12	Appendix IV	Chromium, Total	mg/L	20	6	30%	Parametric	Lognormal MLE	-0.0000199	0.961	↔
22_2_4_110	MW-12	Appendix IV	Cobalt	mg/L	20	5	25%	Parametric	Lognormal MLE	0.00133	0.026	↔
22_2_4_113	MW-12	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.000160	0.237	↔
22_2_4_115	MW-12	Appendix IV	Lead	mg/L	20	6	30%	Parametric	Lognormal MLE	0.000985	0.001	↑
22_2_4_116	MW-12	Appendix IV	Lithium	mg/L	20	1	5%	Parametric	Lognormal MLE	-0.0000717	0.740	↔
22_2_4_118	MW-12	Appendix IV	Molybdenum	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.0000457	0.773	↔
22_2_4_122	MW-12	Appendix IV	Selenium	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.000633	0.272	↔
22_2_5_111	MW-12	Part 115	Copper	mg/L	20	0	0%	Parametric	Lognormal MLE	0.000637	0.003	↑
22_2_5_119	MW-12	Part 115	Nickel	mg/L	20	0	0%	Parametric	Lognormal MLE	0.0000721	0.764	↔
22_2_5_128	MW-12	Part 115	Vanadium	mg/L	20	6	30%	Parametric	Lognormal MLE	0.000269	0.358	↔
22_2_5_129	MW-12	Part 115	Zinc	mg/L	20	0	0%	Parametric	Lognormal MLE	0.000852	0.000	↑
26_1_3_105	MW-16	Appendix III	Boron	mg/L	10	0	0%	Parametric	Lognormal MLE	0.00000971	0.976	↔
26_1_3_107	MW-16	Appendix III	Calcium	mg/L	10	0	0%	Parametric	Lognormal MLE	-0.000118	0.445	↔
26_1_3_108	MW-16	Appendix III	Chloride (as Cl)	mg/L	10	0	0%	Parametric	Lognormal MLE	0.000163	0.338	↔
26_1_3_112	MW-16	Appendix III	Fluoride	mg/L	10	1	10%	Parametric	Lognormal MLE	0.000612	0.152	↔

(Table continues on next page)

Table 8: Trend Tests: Lognormal MLE and MK *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Type	Method	Slope	p-value	Trend
26_1_3_120	MW-16	Appendix III	pH (field)	su	10	0	0%	Parametric	Lognormal MLE	0.00000220	0.960	↔
26_1_3_124	MW-16	Appendix III	Sulfate (as SO4)	mg/L	10	2	20%	Parametric	Lognormal MLE	0.00292	0.295	↔
26_1_3_126	MW-16	Appendix III	Total Dissolved Solids	mg/L	10	0	0%	Parametric	Lognormal MLE	-0.0000992	0.406	↔
26_1_4_102	MW-16	Appendix IV	Arsenic	mg/L	10	0	0%	Parametric	Lognormal MLE	0.00144	0.123	↔
26_1_4_103	MW-16	Appendix IV	Barium	mg/L	10	0	0%	Parametric	Lognormal MLE	0.000515	0.019	↔
26_1_4_109	MW-16	Appendix IV	Chromium, Total	mg/L	10	0	0%	Parametric	Lognormal MLE	0.000542	0.324	↔
26_1_4_110	MW-16	Appendix IV	Cobalt	mg/L	10	0	0%	Nonparametric	MK	0	1.000	↔
26_1_4_113	MW-16	Appendix IV	Fluoride (App IV)	mg/L	10	1	10%	Parametric	Lognormal MLE	0.000612	0.152	↔
26_1_4_116	MW-16	Appendix IV	Lithium	mg/L	10	0	0%	Parametric	Lognormal MLE	0.0000333	0.879	↔
26_1_4_121	MW-16	Appendix IV	Radium 226 and 228	pCi/L	10	4	40%	Parametric	Lognormal MLE	0.000190	0.485	↔
26_1_4_122	MW-16	Appendix IV	Selenium	mg/L	10	1	10%	Parametric	Lognormal MLE	0.000656	0.019	↔
26_1_5_114	MW-16	Part 115	Iron	mg/L	10	0	0%	Parametric	Lognormal MLE	-0.0000612	0.941	↔
26_1_5_119	MW-16	Part 115	Nickel	mg/L	10	1	10%	Parametric	Lognormal MLE	0.00259	0.006	↑
26_1_5_128	MW-16	Part 115	Vanadium	mg/L	10	3	30%	Parametric	Lognormal MLE	0.000411	0.379	↔
26_1_5_129	MW-16	Part 115	Zinc	mg/L	10	2	20%	Parametric	Lognormal MLE	0.00368	0.041	↔
27_1_3_105	MW-17	Appendix III	Boron	mg/L	10	0	0%	Parametric	Lognormal MLE	-0.000375	0.336	↔
27_1_3_107	MW-17	Appendix III	Calcium	mg/L	10	0	0%	Parametric	Lognormal MLE	-0.000289	0.028	↔
27_1_3_108	MW-17	Appendix III	Chloride (as Cl)	mg/L	10	0	0%	Parametric	Lognormal MLE	-0.00106	0.003	↓
27_1_3_112	MW-17	Appendix III	Fluoride	mg/L	10	0	0%	Parametric	Lognormal MLE	0.000288	0.172	↔
27_1_3_120	MW-17	Appendix III	pH (field)	su	10	0	0%	Parametric	Lognormal MLE	-0.00000740	0.791	↔
27_1_3_124	MW-17	Appendix III	Sulfate (as SO4)	mg/L	10	2	20%	Parametric	Lognormal MLE	-0.00382	0.070	↔
27_1_3_126	MW-17	Appendix III	Total Dissolved Solids	mg/L	10	0	0%	Nonparametric	MK	-0.0341	0.266	↔
27_1_4_102	MW-17	Appendix IV	Arsenic	mg/L	10	0	0%	Parametric	Lognormal MLE	-0.000172	0.560	↔
27_1_4_103	MW-17	Appendix IV	Barium	mg/L	10	0	0%	Parametric	Lognormal MLE	-0.0000275	0.940	↔
27_1_4_109	MW-17	Appendix IV	Chromium, Total	mg/L	10	0	0%	Parametric	Lognormal MLE	-0.0000968	0.844	↔
27_1_4_110	MW-17	Appendix IV	Cobalt	mg/L	10	0	0%	Parametric	Lognormal MLE	-0.000117	0.769	↔
27_1_4_113	MW-17	Appendix IV	Fluoride (App IV)	mg/L	10	0	0%	Parametric	Lognormal MLE	0.000288	0.172	↔
27_1_4_115	MW-17	Appendix IV	Lead	mg/L	10	1	10%	Parametric	Lognormal MLE	0.000481	0.587	↔
27_1_4_116	MW-17	Appendix IV	Lithium	mg/L	10	0	0%	Parametric	Lognormal MLE	-0.000336	0.275	↔
27_1_4_118	MW-17	Appendix IV	Molybdenum	mg/L	10	0	0%	Nonparametric	MK	-0.000000437	0.371	↔
27_1_4_121	MW-17	Appendix IV	Radium 226 and 228	pCi/L	10	3	30%	Parametric	Lognormal MLE	0.00000261	0.994	↔
27_1_4_122	MW-17	Appendix IV	Selenium	mg/L	10	0	0%	Nonparametric	MK	0.0000000234	0.857	↔
27_1_5_111	MW-17	Part 115	Copper	mg/L	10	1	10%	Parametric	Lognormal MLE	-0.000379	0.774	↔
27_1_5_114	MW-17	Part 115	Iron	mg/L	10	0	0%	Parametric	Lognormal MLE	-0.000325	0.339	↔
27_1_5_119	MW-17	Part 115	Nickel	mg/L	10	0	0%	Parametric	Lognormal MLE	-0.0000527	0.947	↔
27_1_5_128	MW-17	Part 115	Vanadium	mg/L	10	0	0%	Parametric	Lognormal MLE	-0.000662	0.008	↓
27_1_5_129	MW-17	Part 115	Zinc	mg/L	10	0	0%	Parametric	Lognormal MLE	0.00126	0.375	↔
28_1_3_105	MW-18	Appendix III	Boron	mg/L	20	0	0%	Parametric	Lognormal MLE	0.000429	0.004	↑
28_1_3_107	MW-18	Appendix III	Calcium	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.000271	0.005	↓
28_1_3_108	MW-18	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.0000219	0.862	↔
28_1_3_112	MW-18	Appendix III	Fluoride	mg/L	20	0	0%	Parametric	Lognormal MLE	0.00000801	0.927	↔
28_1_3_120	MW-18	Appendix III	pH (field)	su	20	0	0%	Parametric	Lognormal MLE	0.00000299	0.653	↔
28_1_3_124	MW-18	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.000420	0.006	↓

(Table continues on next page)

Table 8: Trend Tests: Lognormal MLE and MK *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Type	Method	Slope	p-value	Trend
28_1_3_126	MW-18	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.000365	0.000	↓
28_1_4_101	MW-18	Appendix IV	Antimony	mg/L	20	3	15%	Parametric	Lognormal MLE	0.000922	0.005	↑
28_1_4_102	MW-18	Appendix IV	Arsenic	mg/L	20	0	0%	Parametric	Lognormal MLE	0.0000302	0.866	↔
28_1_4_103	MW-18	Appendix IV	Barium	mg/L	20	0	0%	Parametric	Lognormal MLE	0.000624	0.001	↑
28_1_4_106	MW-18	Appendix IV	Cadmium	mg/L	20	7	35%	Parametric	Lognormal MLE	0.000940	0.125	↔
28_1_4_110	MW-18	Appendix IV	Cobalt	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.000751	0.000	↓
28_1_4_113	MW-18	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	Parametric	Lognormal MLE	0.00000801	0.927	↔
28_1_4_116	MW-18	Appendix IV	Lithium	mg/L	20	0	0%	Parametric	Lognormal MLE	0.000172	0.150	↔
28_1_4_118	MW-18	Appendix IV	Molybdenum	mg/L	20	0	0%	Parametric	Lognormal MLE	0.000390	0.001	↑
28_1_4_122	MW-18	Appendix IV	Selenium	mg/L	20	0	0%	Parametric	Lognormal MLE	0.000929	0.072	↔
28_1_5_111	MW-18	Part 115	Copper	mg/L	20	0	0%	Nonparametric	MK	0.000000553	0.006	↑
28_1_5_114	MW-18	Part 115	Iron	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.000433	0.007	↓
28_1_5_119	MW-18	Part 115	Nickel	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.000111	0.525	↔
28_1_5_129	MW-18	Part 115	Zinc	mg/L	20	0	0%	Parametric	Lognormal MLE	0.000501	0.129	↔
29_1_3_105	MW-19	Appendix III	Boron	mg/L	20	0	0%	Parametric	Lognormal MLE	0.000168	0.123	↔
29_1_3_107	MW-19	Appendix III	Calcium	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.000195	0.000	↓
29_1_3_108	MW-19	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.000701	0.000	↓
29_1_3_112	MW-19	Appendix III	Fluoride	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.000107	0.117	↔
29_1_3_120	MW-19	Appendix III	pH (field)	su	20	0	0%	Parametric	Lognormal MLE	-0.0000281	0.025	↔
29_1_3_124	MW-19	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.000171	0.052	↔
29_1_3_126	MW-19	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.000229	0.000	↓
29_1_4_102	MW-19	Appendix IV	Arsenic	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.000895	0.000	↓
29_1_4_103	MW-19	Appendix IV	Barium	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.000195	0.002	↓
29_1_4_104	MW-19	Appendix IV	Beryllium	mg/L	20	3	15%	Parametric	Lognormal MLE	0.000603	0.000	↑
29_1_4_109	MW-19	Appendix IV	Chromium, Total	mg/L	20	6	30%	Parametric	Lognormal MLE	-0.000232	0.161	↔
29_1_4_110	MW-19	Appendix IV	Cobalt	mg/L	20	2	10%	Parametric	Lognormal MLE	-0.000397	0.365	↔
29_1_4_113	MW-19	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.000107	0.117	↔
29_1_4_116	MW-19	Appendix IV	Lithium	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.000190	0.000	↓
29_1_4_118	MW-19	Appendix IV	Molybdenum	mg/L	20	0	0%	Parametric	Lognormal MLE	0.000316	0.112	↔
29_1_4_121	MW-19	Appendix IV	Radium 226 and 228	pCi/L	20	9	45%	Parametric	Lognormal MLE	-0.000443	0.016	↔
29_1_5_114	MW-19	Part 115	Iron	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.000361	0.006	↓
29_1_5_119	MW-19	Part 115	Nickel	mg/L	20	1	5%	Parametric	Lognormal MLE	0.000693	0.047	↔
30_1_3_105	MW-20	Appendix III	Boron	mg/L	20	0	0%	Parametric	Lognormal MLE	0.000178	0.066	↔
30_1_3_107	MW-20	Appendix III	Calcium	mg/L	20	0	0%	Parametric	Lognormal MLE	0.000108	0.309	↔
30_1_3_108	MW-20	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.000891	0.000	↓
30_1_3_112	MW-20	Appendix III	Fluoride	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.000121	0.368	↔
30_1_3_120	MW-20	Appendix III	pH (field)	su	20	0	0%	Parametric	Lognormal MLE	-0.00000931	0.231	↔
30_1_3_124	MW-20	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.000427	0.133	↔
30_1_3_126	MW-20	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.000208	0.010	↔
30_1_4_101	MW-20	Appendix IV	Antimony	mg/L	20	8	40%	Parametric	Lognormal MLE	0.000257	0.457	↔
30_1_4_102	MW-20	Appendix IV	Arsenic	mg/L	20	0	0%	Parametric	Lognormal MLE	0.0000301	0.776	↔
30_1_4_103	MW-20	Appendix IV	Barium	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.000115	0.421	↔
30_1_4_110	MW-20	Appendix IV	Cobalt	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.000192	0.106	↔

(Table continues on next page)

Table 8: Trend Tests: Lognormal MLE and MK *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Type	Method	Slope	p-value	Trend
30_1_4_113	MW-20	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.000121	0.368	↔
30_1_4_115	MW-20	Appendix IV	Lead	mg/L	20	0	0%	Parametric	Lognormal MLE	0.000172	0.407	↔
30_1_4_116	MW-20	Appendix IV	Lithium	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.000314	0.017	↔
30_1_4_118	MW-20	Appendix IV	Molybdenum	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.000168	0.086	↔
30_1_5_111	MW-20	Part 115	Copper	mg/L	20	2	10%	Parametric	Lognormal MLE	0.000906	0.006	↑
30_1_5_114	MW-20	Part 115	Iron	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.000338	0.000	↓
30_1_5_119	MW-20	Part 115	Nickel	mg/L	20	0	0%	Nonparametric	MK	0	1.000	↔
30_1_5_129	MW-20	Part 115	Zinc	mg/L	20	0	0%	Parametric	Lognormal MLE	0.000170	0.538	↔
38_1_3_105	MW-28	Appendix III	Boron	mg/L	10	0	0%	Parametric	Lognormal MLE	-0.00136	0.171	↔
38_1_3_107	MW-28	Appendix III	Calcium	mg/L	10	0	0%	Parametric	Lognormal MLE	-0.000151	0.457	↔
38_1_3_108	MW-28	Appendix III	Chloride (as Cl)	mg/L	10	0	0%	Parametric	Lognormal MLE	0.00000486	0.996	↔
38_1_3_112	MW-28	Appendix III	Fluoride	mg/L	10	0	0%	Parametric	Lognormal MLE	-0.000526	0.323	↔
38_1_3_120	MW-28	Appendix III	pH (field)	su	10	0	0%	Parametric	Lognormal MLE	-0.0000279	0.176	↔
38_1_3_124	MW-28	Appendix III	Sulfate (as SO4)	mg/L	10	2	20%	Parametric	Lognormal MLE	0.000958	0.726	↔
38_1_3_126	MW-28	Appendix III	Total Dissolved Solids	mg/L	10	0	0%	Parametric	Lognormal MLE	-0.000214	0.454	↔
38_1_4_101	MW-28	Appendix IV	Antimony	mg/L	10	0	0%	Parametric	Lognormal MLE	0.00175	0.041	↔
38_1_4_102	MW-28	Appendix IV	Arsenic	mg/L	10	0	0%	Parametric	Lognormal MLE	0.00107	0.108	↔
38_1_4_103	MW-28	Appendix IV	Barium	mg/L	10	0	0%	Parametric	Lognormal MLE	-0.000460	0.433	↔
38_1_4_109	MW-28	Appendix IV	Chromium, Total	mg/L	10	0	0%	Parametric	Lognormal MLE	-0.000649	0.386	↔
38_1_4_110	MW-28	Appendix IV	Cobalt	mg/L	10	0	0%	Parametric	Lognormal MLE	0.00170	0.053	↔
38_1_4_113	MW-28	Appendix IV	Fluoride (App IV)	mg/L	10	0	0%	Parametric	Lognormal MLE	-0.000526	0.323	↔
38_1_4_115	MW-28	Appendix IV	Lead	mg/L	10	0	0%	Parametric	Lognormal MLE	0.00322	0.004	↑
38_1_4_116	MW-28	Appendix IV	Lithium	mg/L	10	0	0%	Parametric	Lognormal MLE	-0.00172	0.143	↔
38_1_4_117	MW-28	Appendix IV	Mercury	ng/L	10	3	30%	Parametric	Lognormal MLE	-0.00217	0.297	↔
38_1_4_118	MW-28	Appendix IV	Molybdenum	mg/L	10	0	0%	Parametric	Lognormal MLE	0.00252	0.000	↑
38_1_4_122	MW-28	Appendix IV	Selenium	mg/L	10	0	0%	Nonparametric	MK	0.000000199	0.088	↔
38_1_5_111	MW-28	Part 115	Copper	mg/L	10	1	10%	Parametric	Lognormal MLE	0.00244	0.042	↔
38_1_5_114	MW-28	Part 115	Iron	mg/L	10	0	0%	Parametric	Lognormal MLE	-0.00149	0.179	↔
38_1_5_119	MW-28	Part 115	Nickel	mg/L	10	0	0%	Parametric	Lognormal MLE	0.000676	0.519	↔
38_1_5_128	MW-28	Part 115	Vanadium	mg/L	10	2	20%	Parametric	Lognormal MLE	0.000431	0.153	↔
38_1_5_129	MW-28	Part 115	Zinc	mg/L	10	0	0%	Parametric	Lognormal MLE	0.00241	0.136	↔
40_1_3_105	MW-30	Appendix III	Boron	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.000205	0.024	↔
40_1_3_107	MW-30	Appendix III	Calcium	mg/L	20	0	0%	Nonparametric	MK	0.00455	0.871	↔
40_1_3_108	MW-30	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	Nonparametric	MK	0.256	0.117	↔
40_1_3_112	MW-30	Appendix III	Fluoride	mg/L	20	0	0%	Nonparametric	MK	0	0.662	↔
40_1_3_120	MW-30	Appendix III	pH (field)	su	20	0	0%	Parametric	Lognormal MLE	-0.00000853	0.504	↔
40_1_3_124	MW-30	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.000172	0.104	↔
40_1_3_126	MW-30	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	Nonparametric	MK	0.469	0.039	↔
40_1_4_102	MW-30	Appendix IV	Arsenic	mg/L	20	2	10%	Parametric	Lognormal MLE	0.00183	0.000	↑
40_1_4_103	MW-30	Appendix IV	Barium	mg/L	20	0	0%	Parametric	Lognormal MLE	0.0000342	0.820	↔
40_1_4_109	MW-30	Appendix IV	Chromium, Total	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.000206	0.377	↔
40_1_4_110	MW-30	Appendix IV	Cobalt	mg/L	20	0	0%	Nonparametric	MK	-0.000000248	0.313	↔
40_1_4_113	MW-30	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	Nonparametric	MK	0	0.662	↔

(Table continues on next page)

Table 8: Trend Tests: Lognormal MLE and MK *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Type	Method	Slope	p-value	Trend
40_1_4_116	MW-30	Appendix IV	Lithium	mg/L	20	0	0%	Parametric	Lognormal MLE	0.0000320	0.805	↔
40_1_5_114	MW-30	Part 115	Iron	mg/L	20	0	0%	Parametric	Lognormal MLE	0.000103	0.788	↔
41_1_3_105	MW-31	Appendix III	Boron	mg/L	20	0	0%	Parametric	Lognormal MLE	0.000395	0.000	↑
41_1_3_107	MW-31	Appendix III	Calcium	mg/L	20	0	0%	Nonparametric	MK	0	0.767	↔
41_1_3_108	MW-31	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	Nonparametric	MK	0.0133	0.055	↔
41_1_3_112	MW-31	Appendix III	Fluoride	mg/L	20	0	0%	Nonparametric	MK	-0.00102	0.000	↓
41_1_3_120	MW-31	Appendix III	pH (field)	su	20	0	0%	Parametric	Lognormal MLE	-0.0000164	0.132	↔
41_1_3_124	MW-31	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.000251	0.525	↔
41_1_3_126	MW-31	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	Nonparametric	MK	0.0319	0.515	↔
41_1_4_101	MW-31	Appendix IV	Antimony	mg/L	20	7	35%	Parametric	Lognormal MLE	0.00214	0.000	↑
41_1_4_102	MW-31	Appendix IV	Arsenic	mg/L	20	0	0%	Nonparametric	MK	0.000000424	0.251	↔
41_1_4_103	MW-31	Appendix IV	Barium	mg/L	20	0	0%	Parametric	Lognormal MLE	0.000404	0.007	↑
41_1_4_109	MW-31	Appendix IV	Chromium, Total	mg/L	20	0	0%	Parametric	Lognormal MLE	0.000608	0.000	↑
41_1_4_110	MW-31	Appendix IV	Cobalt	mg/L	20	3	15%	Parametric	Lognormal MLE	0.000488	0.114	↔
41_1_4_113	MW-31	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	Nonparametric	MK	-0.00102	0.000	↓
41_1_4_116	MW-31	Appendix IV	Lithium	mg/L	20	0	0%	Parametric	Lognormal MLE	0.000256	0.030	↔
41_1_4_118	MW-31	Appendix IV	Molybdenum	mg/L	20	0	0%	Nonparametric	MK	0.00000106	0.294	↔
41_1_4_121	MW-31	Appendix IV	Radium 226 and 228	pCi/L	20	8	40%	Parametric	Lognormal MLE	-0.000252	0.129	↔
41_1_5_114	MW-31	Part 115	Iron	mg/L	20	0	0%	Parametric	Lognormal MLE	0.0000170	0.978	↔
41_1_5_129	MW-31	Part 115	Zinc	mg/L	20	9	45%	Parametric	Lognormal MLE	0.00259	0.004	↑
42_1_3_105	MW-32	Appendix III	Boron	mg/L	20	0	0%	Parametric	Lognormal MLE	0.000216	0.054	↔
42_1_3_107	MW-32	Appendix III	Calcium	mg/L	20	0	0%	Parametric	Lognormal MLE	0.0000140	0.861	↔
42_1_3_108	MW-32	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.0000933	0.263	↔
42_1_3_112	MW-32	Appendix III	Fluoride	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.000170	0.006	↓
42_1_3_120	MW-32	Appendix III	pH (field)	su	20	0	0%	Parametric	Lognormal MLE	-0.0000175	0.019	↔
42_1_3_124	MW-32	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.000417	0.522	↔
42_1_3_126	MW-32	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	Parametric	Lognormal MLE	0.0000101	0.883	↔
42_1_4_102	MW-32	Appendix IV	Arsenic	mg/L	20	0	0%	Nonparametric	MK	-0.0000000597	0.314	↔
42_1_4_103	MW-32	Appendix IV	Barium	mg/L	20	0	0%	Parametric	Lognormal MLE	0.000125	0.736	↔
42_1_4_109	MW-32	Appendix IV	Chromium, Total	mg/L	20	0	0%	Nonparametric	MK	-0.0000000807	0.059	↔
42_1_4_110	MW-32	Appendix IV	Cobalt	mg/L	20	0	0%	Nonparametric	MK	0.000000178	0.060	↔
42_1_4_113	MW-32	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.000170	0.006	↓
42_1_4_116	MW-32	Appendix IV	Lithium	mg/L	20	0	0%	Parametric	Lognormal MLE	0.0000746	0.528	↔
42_1_4_118	MW-32	Appendix IV	Molybdenum	mg/L	20	0	0%	Parametric	Lognormal MLE	-0.000664	0.000	↓
42_1_4_121	MW-32	Appendix IV	Radium 226 and 228	pCi/L	20	9	45%	Parametric	Lognormal MLE	0.0000434	0.804	↔
42_1_5_114	MW-32	Part 115	Iron	mg/L	20	0	0%	Parametric	Lognormal MLE	0.0000753	0.498	↔
42_1_5_119	MW-32	Part 115	Nickel	mg/L	20	0	0%	Nonparametric	MK	-0.000000132	0.580	↔
42_1_5_129	MW-32	Part 115	Zinc	mg/L	20	0	0%	Nonparametric	MK	0.00000345	0.064	↔
46_1_3_105	MW-36	Appendix III	Boron	mg/L	10	0	0%	Parametric	Lognormal MLE	0.000112	0.756	↔
46_1_3_107	MW-36	Appendix III	Calcium	mg/L	10	0	0%	Parametric	Lognormal MLE	0.000231	0.019	↔
46_1_3_108	MW-36	Appendix III	Chloride (as Cl)	mg/L	10	0	0%	Parametric	Lognormal MLE	-0.00100	0.000	↓
46_1_3_112	MW-36	Appendix III	Fluoride	mg/L	10	0	0%	Parametric	Lognormal MLE	-0.000237	0.228	↔
46_1_3_120	MW-36	Appendix III	pH (field)	su	10	0	0%	Parametric	Lognormal MLE	-0.000177	0.077	↔

(Table continues on next page)

Table 8: Trend Tests: Lognormal MLE and MK *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Type	Method	Slope	p-value	Trend
46_1_3_124	MW-36	Appendix III	Sulfate (as SO4)	mg/L	10	0	0%	Parametric	Lognormal MLE	0.000610	0.249	↔
46_1_3_126	MW-36	Appendix III	Total Dissolved Solids	mg/L	10	0	0%	Parametric	Lognormal MLE	0.000202	0.066	↔
46_1_4_101	MW-36	Appendix IV	Antimony	mg/L	10	0	0%	Parametric	Lognormal MLE	-0.000131	0.820	↔
46_1_4_102	MW-36	Appendix IV	Arsenic	mg/L	10	0	0%	Nonparametric	MK	-0.0000120	0.120	↔
46_1_4_103	MW-36	Appendix IV	Barium	mg/L	10	0	0%	Parametric	Lognormal MLE	0.000291	0.199	↔
46_1_4_106	MW-36	Appendix IV	Cadmium	mg/L	10	2	20%	Parametric	Lognormal MLE	-0.00280	0.000	↓
46_1_4_109	MW-36	Appendix IV	Chromium, Total	mg/L	10	0	0%	Parametric	Lognormal MLE	-0.00107	0.003	↓
46_1_4_110	MW-36	Appendix IV	Cobalt	mg/L	10	0	0%	Parametric	Lognormal MLE	-0.000635	0.001	↓
46_1_4_113	MW-36	Appendix IV	Fluoride (App IV)	mg/L	10	0	0%	Parametric	Lognormal MLE	-0.000237	0.228	↔
46_1_4_115	MW-36	Appendix IV	Lead	mg/L	10	0	0%	Parametric	Lognormal MLE	-0.00216	0.000	↓
46_1_4_116	MW-36	Appendix IV	Lithium	mg/L	10	0	0%	Parametric	Lognormal MLE	0.000478	0.223	↔
46_1_4_117	MW-36	Appendix IV	Mercury	ng/L	10	4	40%	Parametric	Lognormal MLE	-0.000347	0.705	↔
46_1_4_118	MW-36	Appendix IV	Molybdenum	mg/L	10	0	0%	Parametric	Lognormal MLE	-0.000464	0.151	↔
46_1_4_122	MW-36	Appendix IV	Selenium	mg/L	10	0	0%	Parametric	Lognormal MLE	-0.000280	0.323	↔
46_1_5_111	MW-36	Part 115	Copper	mg/L	10	0	0%	Parametric	Lognormal MLE	-0.00228	0.000	↓
46_1_5_114	MW-36	Part 115	Iron	mg/L	10	0	0%	Parametric	Lognormal MLE	0.000411	0.432	↔
46_1_5_119	MW-36	Part 115	Nickel	mg/L	10	0	0%	Parametric	Lognormal MLE	-0.00123	0.000	↓
46_1_5_123	MW-36	Part 115	Silver	mg/L	10	1	10%	Parametric	Lognormal MLE	-0.00237	0.000	↓
46_1_5_128	MW-36	Part 115	Vanadium	mg/L	10	0	0%	Parametric	Lognormal MLE	-0.000200	0.504	↔
46_1_5_129	MW-36	Part 115	Zinc	mg/L	10	0	0%	Parametric	Lognormal MLE	0.0000591	0.938	↔
47_1_3_105	MW-37	Appendix III	Boron	mg/L	10	0	0%	Parametric	Lognormal MLE	-0.000980	0.070	↔
47_1_3_107	MW-37	Appendix III	Calcium	mg/L	10	0	0%	Parametric	Lognormal MLE	-0.0000922	0.613	↔
47_1_3_108	MW-37	Appendix III	Chloride (as Cl)	mg/L	10	0	0%	Parametric	Lognormal MLE	-0.00237	0.000	↓
47_1_3_112	MW-37	Appendix III	Fluoride	mg/L	10	0	0%	Parametric	Lognormal MLE	-0.0000254	0.889	↔
47_1_3_120	MW-37	Appendix III	pH (field)	su	10	0	0%	Parametric	Lognormal MLE	0.00000614	0.801	↔
47_1_3_124	MW-37	Appendix III	Sulfate (as SO4)	mg/L	10	0	0%	Parametric	Lognormal MLE	-0.000202	0.637	↔
47_1_3_126	MW-37	Appendix III	Total Dissolved Solids	mg/L	10	0	0%	Parametric	Lognormal MLE	-0.000264	0.051	↔
47_1_4_101	MW-37	Appendix IV	Antimony	mg/L	10	1	10%	Parametric	Lognormal MLE	-0.000323	0.737	↔
47_1_4_102	MW-37	Appendix IV	Arsenic	mg/L	10	0	0%	Parametric	Lognormal MLE	0.000335	0.211	↔
47_1_4_103	MW-37	Appendix IV	Barium	mg/L	10	0	0%	Parametric	Lognormal MLE	0.000380	0.285	↔
47_1_4_109	MW-37	Appendix IV	Chromium, Total	mg/L	10	0	0%	Parametric	Lognormal MLE	0.000295	0.658	↔
47_1_4_110	MW-37	Appendix IV	Cobalt	mg/L	10	0	0%	Parametric	Lognormal MLE	-0.000912	0.001	↓
47_1_4_113	MW-37	Appendix IV	Fluoride (App IV)	mg/L	10	0	0%	Parametric	Lognormal MLE	-0.0000254	0.889	↔
47_1_4_115	MW-37	Appendix IV	Lead	mg/L	10	2	20%	Parametric	Lognormal MLE	0.00263	0.142	↔
47_1_4_116	MW-37	Appendix IV	Lithium	mg/L	10	0	0%	Parametric	Lognormal MLE	0.000288	0.554	↔
47_1_4_117	MW-37	Appendix IV	Mercury	ng/L	10	4	40%	Parametric	Lognormal MLE	-0.000317	0.827	↔
47_1_4_118	MW-37	Appendix IV	Molybdenum	mg/L	10	0	0%	Parametric	Lognormal MLE	0.0000131	0.974	↔
47_1_4_122	MW-37	Appendix IV	Selenium	mg/L	10	0	0%	Parametric	Lognormal MLE	-0.000799	0.438	↔
47_1_5_111	MW-37	Part 115	Copper	mg/L	10	0	0%	Parametric	Lognormal MLE	-0.000315	0.627	↔
47_1_5_114	MW-37	Part 115	Iron	mg/L	10	1	10%	Parametric	Lognormal MLE	0.00163	0.518	↔
47_1_5_119	MW-37	Part 115	Nickel	mg/L	10	0	0%	Parametric	Lognormal MLE	-0.000930	0.001	↓
47_1_5_129	MW-37	Part 115	Zinc	mg/L	10	0	0%	Parametric	Lognormal MLE	0.000737	0.028	↔
48_2_3_105	MW-38	Appendix III	Boron	mg/L	10	0	0%	Parametric	Lognormal MLE	-0.00253	0.069	↔

(Table continues on next page)

Table 8: Trend Tests: Lognormal MLE and MK *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Type	Method	Slope	p-value	Trend
48_2_3_107	MW-38	Appendix III	Calcium	mg/L	10	0	0%	Nonparametric	MK	-0.0230	0.592	↔
48_2_3_108	MW-38	Appendix III	Chloride (as Cl)	mg/L	10	0	0%	Parametric	Lognormal MLE	-0.00158	0.004	↓
48_2_3_112	MW-38	Appendix III	Fluoride	mg/L	10	0	0%	Parametric	Lognormal MLE	-0.000345	0.328	↔
48_2_3_120	MW-38	Appendix III	pH (field)	su	10	0	0%	Parametric	Lognormal MLE	0.000210	0.101	↔
48_2_3_124	MW-38	Appendix III	Sulfate (as SO4)	mg/L	10	0	0%	Parametric	Lognormal MLE	-0.00230	0.000	↓
48_2_3_126	MW-38	Appendix III	Total Dissolved Solids	mg/L	10	0	0%	Parametric	Lognormal MLE	-0.000277	0.617	↔
48_2_4_101	MW-38	Appendix IV	Antimony	mg/L	10	2	20%	Parametric	Lognormal MLE	-0.000909	0.500	↔
48_2_4_102	MW-38	Appendix IV	Arsenic	mg/L	10	0	0%	Parametric	Lognormal MLE	-0.000913	0.275	↔
48_2_4_103	MW-38	Appendix IV	Barium	mg/L	10	0	0%	Parametric	Lognormal MLE	-0.000162	0.851	↔
48_2_4_109	MW-38	Appendix IV	Chromium, Total	mg/L	10	1	10%	Parametric	Lognormal MLE	-0.00114	0.249	↔
48_2_4_110	MW-38	Appendix IV	Cobalt	mg/L	10	0	0%	Parametric	Lognormal MLE	0.000543	0.494	↔
48_2_4_113	MW-38	Appendix IV	Fluoride (App IV)	mg/L	10	0	0%	Parametric	Lognormal MLE	-0.000345	0.328	↔
48_2_4_115	MW-38	Appendix IV	Lead	mg/L	10	1	10%	Parametric	Lognormal MLE	-0.00194	0.310	↔
48_2_4_116	MW-38	Appendix IV	Lithium	mg/L	10	0	0%	Parametric	Lognormal MLE	-0.0000215	0.964	↔
48_2_4_117	MW-38	Appendix IV	Mercury	ng/L	10	4	40%	Parametric	Lognormal MLE	0.00139	0.173	↔
48_2_4_118	MW-38	Appendix IV	Molybdenum	mg/L	10	0	0%	Parametric	Lognormal MLE	-0.000359	0.736	↔
48_2_4_122	MW-38	Appendix IV	Selenium	mg/L	10	0	0%	Parametric	Lognormal MLE	0.0000118	0.989	↔
48_2_5_111	MW-38	Part 115	Copper	mg/L	10	1	10%	Parametric	Lognormal MLE	0.000295	0.880	↔
48_2_5_114	MW-38	Part 115	Iron	mg/L	10	0	0%	Parametric	Lognormal MLE	-0.00103	0.477	↔
48_2_5_119	MW-38	Part 115	Nickel	mg/L	10	0	0%	Parametric	Lognormal MLE	0.000112	0.916	↔
48_2_5_128	MW-38	Part 115	Vanadium	mg/L	10	2	20%	Parametric	Lognormal MLE	-0.00169	0.309	↔
48_2_5_129	MW-38	Part 115	Zinc	mg/L	10	1	10%	Parametric	Lognormal MLE	0.000413	0.798	↔

Table 9: Trend Tests: Piecewise Linear-Linear

								Line 1			Line 2				
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Slope	p-Value	Trend	Slope	p-Value	Trend	Break 1	R-Squared
11_2_3_105	MW-01R	Appendix III	Boron	mg/L	20	0	0%	0.031319	0.322	↔	-0.11902	0.518	↔	2025-10-21	0.086
11_2_3_107	MW-01R	Appendix III	Calcium	mg/L	20	0	0%	-0.054296	0.396	↔	0.33647	0.639	↔	2025-10-22	0.077
11_2_3_108	MW-01R	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	-0.016361	0.631	↔	-0.17794	0.644	↔	2025-10-22	0.152
11_2_3_112	MW-01R	Appendix III	Fluoride	mg/L	20	0	0%	0.0034214	0.202	↔	-0.016357	0.582	↔	2025-10-22	0.126
11_2_3_120	MW-01R	Appendix III	pH (field)	su	20	0	0%	0.0051548	0.292	↔	< 0.0001	0.776	↔	2023-04-11	0.223
11_2_3_124	MW-01R	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	-0.25751	0.329	↔	1.4289	0.355	↔	2025-10-21	0.110
11_2_3_126	MW-01R	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	0.062992	0.425	↔	1.201	0.450	↔	2026-02-19	0.255
11_2_4_101	MW-01R	Appendix IV	Antimony	mg/L	20	3	15%	< 0.0001	0.498	↔	< 0.0001	0.185	↔	2025-04-22	0.288
11_2_4_102	MW-01R	Appendix IV	Arsenic	mg/L	20	0	0%	< 0.0001	0.528	↔	< 0.0001	0.429	↔	2024-02-12	0.081
11_2_4_103	MW-01R	Appendix IV	Barium	mg/L	20	0	0%	0.00029141	0.006	↑	-0.00090486	0.396	↔	2025-10-22	0.404
11_2_4_106	MW-01R	Appendix IV	Cadmium	mg/L	20	13	65%	< 0.0001	0.789	↔	< 0.0001	0.040	↔	2025-07-31	0.415
11_2_4_109	MW-01R	Appendix IV	Chromium, Total	mg/L	20	0	0%	< 0.0001	0.315	↔	< 0.0001	0.122	↔	2024-02-12	0.204
11_2_4_110	MW-01R	Appendix IV	Cobalt	mg/L	20	0	0%	< 0.0001	0.964	↔	< 0.0001	0.175	↔	2025-05-21	0.329
11_2_4_113	MW-01R	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	0.0034214	0.202	↔	-0.016357	0.582	↔	2025-10-22	0.126

(Table continues on next page)

Table 9: Trend Tests: Piecewise Linear-Linear *(continued)*

								Line 1			Line 2				
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Slope	p-Value	Trend	Slope	p-Value	Trend	Break 1	R-Squared
11_2_4_115	MW-01R	Appendix IV	Lead	mg/L	20	2	10%	< 0.0001	0.499	↔	< 0.0001	0.078	↔	2025-05-18	0.404
11_2_4_116	MW-01R	Appendix IV	Lithium	mg/L	20	0	0%	0.00044998	0.493	↔	-0.0018928	0.622	↔	2025-10-21	0.045
11_2_4_117	MW-01R	Appendix IV	Mercury	ng/L	20	16	80%	< 0.0001	1.000	↔	-0.24975	0.000	↓	2024-06-05	0.833
11_2_4_118	MW-01R	Appendix IV	Molybdenum	mg/L	20	2	10%	< 0.0001	0.681	↔	< 0.0001	0.408	↔	2025-07-29	0.073
11_2_4_122	MW-01R	Appendix IV	Selenium	mg/L	20	0	0%	< 0.0001	0.890	↔	< 0.0001	0.246	↔	2025-08-07	0.204
11_2_4_125	MW-01R	Appendix IV	Thallium	mg/L	20	20	100%	< 0.0001	0.161	↔	< 0.0001	0.012	↔	2023-05-09	0.391
11_2_5_111	MW-01R	Part 115	Copper	mg/L	20	6	30%	< 0.0001	0.944	↔	< 0.0001	0.176	↔	2025-06-16	0.310
11_2_5_114	MW-01R	Part 115	Iron	mg/L	20	0	0%	-0.00072232	0.047	↔	0.0021886	0.099	↔	2025-05-22	0.346
11_2_5_119	MW-01R	Part 115	Nickel	mg/L	20	0	0%	< 0.0001	0.943	↔	< 0.0001	0.206	↔	2025-06-19	0.279
11_2_5_123	MW-01R	Part 115	Silver	mg/L	20	20	100%	< 0.0001	0.214	↔	< 0.0001	1.000	↔	2025-05-10	0.170
11_2_5_128	MW-01R	Part 115	Vanadium	mg/L	20	2	10%	< 0.0001	0.073	↔	< 0.0001	0.501	↔	2023-06-28	0.453
11_2_5_129	MW-01R	Part 115	Zinc	mg/L	20	3	15%	< 0.0001	0.821	↔	< 0.0001	0.068	↔	2024-05-29	0.359
12_2_3_105	MW-02	Appendix III	Boron	mg/L	20	0	0%	0.067502	0.056	↔	-0.10685	0.188	↔	2025-04-18	0.298
12_2_3_107	MW-02	Appendix III	Calcium	mg/L	20	0	0%	0.0023938	0.960	↔	-0.044059	0.071	↔	2024-04-09	0.337
12_2_3_108	MW-02	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	0.036424	0.170	↔	-0.025698	0.537	↔	2024-12-26	0.183
12_2_3_112	MW-02	Appendix III	Fluoride	mg/L	20	0	0%	0.0051394	0.001	↑	-0.023488	0.131	↔	2026-01-07	0.530
12_2_3_120	MW-02	Appendix III	pH (field)	su	20	0	0%	0.0028331	0.434	↔	< 0.0001	0.093	↔	2023-02-07	0.273
12_2_3_124	MW-02	Appendix III	Sulfate (as SO4)	mg/L	20	10	50%	0.0021386	0.825	↔	0.05376	0.148	↔	2025-08-12	0.290
12_2_3_126	MW-02	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	0.45129	0.013	↔	-2.7218	0.150	↔	2026-01-30	0.392
12_2_4_101	MW-02	Appendix IV	Antimony	mg/L	20	3	15%	< 0.0001	0.256	↔	< 0.0001	0.145	↔	2023-04-18	0.192
12_2_4_102	MW-02	Appendix IV	Arsenic	mg/L	20	0	0%	< 0.0001	0.347	↔	< 0.0001	0.794	↔	2024-02-12	0.215
12_2_4_103	MW-02	Appendix IV	Barium	mg/L	20	0	0%	-0.00017731	0.150	↔	0.00019781	0.309	↔	2024-10-15	0.175
12_2_4_104	MW-02	Appendix IV	Beryllium	mg/L	20	2	10%	< 0.0001	0.303	↔	< 0.0001	0.739	↔	2024-04-09	0.177
12_2_4_106	MW-02	Appendix IV	Cadmium	mg/L	20	14	70%	< 0.0001	0.340	↔	< 0.0001	0.086	↔	2023-05-22	0.222
12_2_4_109	MW-02	Appendix IV	Chromium, Total	mg/L	20	0	0%	< 0.0001	0.427	↔	< 0.0001	0.516	↔	2025-04-19	0.080
12_2_4_110	MW-02	Appendix IV	Cobalt	mg/L	20	0	0%	< 0.0001	0.094	↔	< 0.0001	0.341	↔	2026-02-17	0.238
12_2_4_113	MW-02	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	0.0051394	0.001	↑	-0.023488	0.131	↔	2026-01-07	0.530
12_2_4_115	MW-02	Appendix IV	Lead	mg/L	20	1	5%	< 0.0001	0.244	↔	< 0.0001	0.151	↔	2025-04-18	0.196
12_2_4_116	MW-02	Appendix IV	Lithium	mg/L	20	0	0%	0.00051419	0.041	↔	-0.0049741	0.297	↔	2026-02-17	0.299
12_2_4_117	MW-02	Appendix IV	Mercury	ng/L	20	14	70%	< 0.0001	1.000	↔	-0.252	0.000	↓	2024-06-10	0.842
12_2_4_118	MW-02	Appendix IV	Molybdenum	mg/L	20	0	0%	< 0.0001	0.058	↔	< 0.0001	0.319	↔	2026-02-17	0.272
12_2_4_121	MW-02	Appendix IV	Radium 226 and 228	pCi/L	19	6	32%	-0.0041271	0.091	↔	0.00073588	0.317	↔	2023-12-19	0.351
12_2_4_122	MW-02	Appendix IV	Selenium	mg/L	20	0	0%	< 0.0001	0.020	↔	< 0.0001	0.263	↔	2026-02-17	0.352
12_2_4_125	MW-02	Appendix IV	Thallium	mg/L	20	19	95%	< 0.0001	0.368	↔	< 0.0001	0.238	↔	2024-11-05	0.164
12_2_5_111	MW-02	Part 115	Copper	mg/L	20	0	0%	< 0.0001	0.070	↔	< 0.0001	0.353	↔	2026-02-17	0.248
12_2_5_114	MW-02	Part 115	Iron	mg/L	20	0	0%	-0.0033899	0.248	↔	0.014077	0.661	↔	2025-10-22	0.096
12_2_5_119	MW-02	Part 115	Nickel	mg/L	20	0	0%	< 0.0001	0.045	↔	-0.00017451	0.376	↔	2026-02-17	0.267
12_2_5_123	MW-02	Part 115	Silver	mg/L	20	20	100%	< 0.0001	0.222	↔	< 0.0001	1.000	↔	2024-04-30	0.223
12_2_5_128	MW-02	Part 115	Vanadium	mg/L	20	1	5%	< 0.0001	0.137	↔	< 0.0001	0.154	↔	2025-04-18	0.226
12_2_5_129	MW-02	Part 115	Zinc	mg/L	20	0	0%	< 0.0001	0.507	↔	< 0.0001	0.099	↔	2023-09-09	0.212
13_2_3_105	MW-03	Appendix III	Boron	mg/L	20	0	0%	0.00013762	0.640	↔	-0.0018481	0.105	↔	2025-06-11	0.339
13_2_3_107	MW-03	Appendix III	Calcium	mg/L	20	0	0%	0.16231	0.574	↔	-0.067118	0.006	↓	2023-05-16	0.426

(Table continues on next page)

Table 9: Trend Tests: Piecewise Linear-Linear *(continued)*

								Line 1			Line 2				
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Slope	p-Value	Trend	Slope	p-Value	Trend	Break 1	R-Squared
13_2_3_108	MW-03	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	-2.973	0.008	↓	-0.078534	0.000	↓	2023-01-07	0.817
13_2_3_112	MW-03	Appendix III	Fluoride	mg/L	20	0	0%	-0.0032746	0.105	↔	0.00024485	0.107	↔	2023-04-27	0.308
13_2_3_120	MW-03	Appendix III	pH (field)	su	20	0	0%	0.00018425	0.428	↔	-0.00010706	0.342	↔	2024-02-14	0.092
13_2_3_124	MW-03	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	3.7216	0.030	↔	-0.49299	0.000	↓	2023-03-28	0.739
13_2_3_126	MW-03	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	-0.56027	0.000	↓	0.86957	0.681	↔	2026-03-29	0.689
13_2_4_101	MW-03	Appendix IV	Antimony	mg/L	20	14	70%	< 0.0001	0.119	↔	< 0.0001	0.013	↔	2023-04-18	0.396
13_2_4_102	MW-03	Appendix IV	Arsenic	mg/L	20	0	0%	< 0.0001	0.576	↔	< 0.0001	0.178	↔	2025-04-15	0.182
13_2_4_103	MW-03	Appendix IV	Barium	mg/L	20	0	0%	0.0006742	0.691	↔	< 0.0001	0.531	↔	2023-02-07	0.035
13_2_4_104	MW-03	Appendix IV	Beryllium	mg/L	20	13	65%	< 0.0001	0.747	↔	< 0.0001	0.529	↔	2023-02-06	0.053
13_2_4_106	MW-03	Appendix IV	Cadmium	mg/L	20	19	95%	< 0.0001	0.316	↔	< 0.0001	0.090	↔	2023-05-22	0.228
13_2_4_109	MW-03	Appendix IV	Chromium, Total	mg/L	20	0	0%	< 0.0001	0.340	↔	< 0.0001	0.370	↔	2023-10-24	0.336
13_2_4_110	MW-03	Appendix IV	Cobalt	mg/L	20	0	0%	< 0.0001	0.347	↔	< 0.0001	0.164	↔	2023-08-07	0.173
13_2_4_113	MW-03	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	-0.0032746	0.105	↔	0.00024485	0.107	↔	2023-04-27	0.308
13_2_4_115	MW-03	Appendix IV	Lead	mg/L	20	19	95%	< 0.0001	0.082	↔	< 0.0001	0.000	↓	2023-02-07	0.593
13_2_4_116	MW-03	Appendix IV	Lithium	mg/L	20	0	0%	< 0.0001	0.060	↔	< 0.0001	0.529	↔	2024-01-11	0.618
13_2_4_117	MW-03	Appendix IV	Mercury	ng/L	20	15	75%	0.16107	0.202	↔	-0.23348	0.000	↓	2023-11-03	0.824
13_2_4_118	MW-03	Appendix IV	Molybdenum	mg/L	20	14	70%	< 0.0001	0.168	↔	< 0.0001	0.541	↔	2024-12-22	0.183
13_2_4_121	MW-03	Appendix IV	Radium 226 and 228	pCi/L	19	3	16%	-0.0011856	0.037	↔	0.00050416	0.391	↔	2024-07-30	0.348
13_2_4_122	MW-03	Appendix IV	Selenium	mg/L	20	3	15%	< 0.0001	0.751	↔	< 0.0001	0.406	↔	2024-02-14	0.071
13_2_4_125	MW-03	Appendix IV	Thallium	mg/L	20	19	95%	< 0.0001	0.047	↔	< 0.0001	0.000	↓	2023-02-21	0.645
13_2_5_111	MW-03	Part 115	Copper	mg/L	20	9	45%	< 0.0001	0.481	↔	< 0.0001	0.319	↔	2024-04-06	0.090
13_2_5_114	MW-03	Part 115	Iron	mg/L	20	0	0%	-0.022027	0.000	↓	< 0.0001	0.920	↔	2023-06-06	0.783
13_2_5_119	MW-03	Part 115	Nickel	mg/L	20	1	5%	< 0.0001	0.122	↔	< 0.0001	0.954	↔	2023-04-23	0.320
13_2_5_123	MW-03	Part 115	Silver	mg/L	20	20	100%	< 0.0001	0.215	↔	< 0.0001	1.000	↔	2025-05-12	0.170
13_2_5_128	MW-03	Part 115	Vanadium	mg/L	20	9	45%	< 0.0001	0.398	↔	< 0.0001	0.679	↔	2024-07-17	0.106
13_2_5_129	MW-03	Part 115	Zinc	mg/L	20	9	45%	< 0.0001	0.208	↔	< 0.0001	0.003	↑	2024-01-06	0.486
14_2_3_105	MW-04	Appendix III	Boron	mg/L	20	0	0%	0.00098218	0.290	↔	-0.0045879	0.000	↓	2024-10-14	0.727
14_2_3_107	MW-04	Appendix III	Calcium	mg/L	20	0	0%	0.031882	0.496	↔	-0.30228	0.562	↔	2025-11-11	0.086
14_2_3_108	MW-04	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	-0.24908	0.004	↓	-0.12162	0.003	↓	2024-03-16	0.877
14_2_3_112	MW-04	Appendix III	Fluoride	mg/L	20	0	0%	0.0012377	0.360	↔	0.00021426	0.445	↔	2023-10-23	0.344
14_2_3_120	MW-04	Appendix III	pH (field)	su	20	0	0%	0.00078524	0.568	↔	-0.0003308	0.005	↓	2023-05-22	0.435
14_2_3_124	MW-04	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	1.6653	0.070	↔	-0.13782	0.451	↔	2023-08-09	0.294
14_2_3_126	MW-04	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	0.23243	0.683	↔	-0.66477	0.113	↔	2024-05-11	0.272
14_2_4_101	MW-04	Appendix IV	Antimony	mg/L	20	14	70%	< 0.0001	0.224	↔	< 0.0001	0.168	↔	2023-04-29	0.208
14_2_4_102	MW-04	Appendix IV	Arsenic	mg/L	20	0	0%	< 0.0001	0.711	↔	< 0.0001	0.123	↔	2023-05-23	0.188
14_2_4_103	MW-04	Appendix IV	Barium	mg/L	20	0	0%	-0.00094105	0.358	↔	< 0.0001	0.782	↔	2023-04-18	0.248
14_2_4_106	MW-04	Appendix IV	Cadmium	mg/L	20	20	100%	< 0.0001	0.341	↔	< 0.0001	0.109	↔	2023-05-22	0.207
14_2_4_109	MW-04	Appendix IV	Chromium, Total	mg/L	20	0	0%	< 0.0001	0.765	↔	< 0.0001	0.084	↔	2024-10-14	0.409
14_2_4_110	MW-04	Appendix IV	Cobalt	mg/L	20	0	0%	< 0.0001	0.155	↔	< 0.0001	0.490	↔	2026-02-19	0.156
14_2_4_113	MW-04	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	0.0012377	0.360	↔	0.00021426	0.445	↔	2023-10-23	0.344
14_2_4_115	MW-04	Appendix IV	Lead	mg/L	20	16	80%	< 0.0001	0.668	↔	< 0.0001	0.616	↔	2023-10-23	0.127
14_2_4_116	MW-04	Appendix IV	Lithium	mg/L	20	0	0%	< 0.0001	0.502	↔	< 0.0001	0.012	↔	2023-08-06	0.399

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Table 9: Trend Tests: Piecewise Linear-Linear *(continued)*

								Line 1			Line 2				
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Slope	p-Value	Trend	Slope	p-Value	Trend	Break 1	R-Squared
14_2_4_117	MW-04	Appendix IV	Mercury	ng/L	20	16	80%	< 0.0001	1.000	↔	-0.25412	0.000	↓	2024-06-09	0.840
14_2_4_118	MW-04	Appendix IV	Molybdenum	mg/L	20	2	10%	< 0.0001	0.002	↑	< 0.0001	0.255	↔	2026-02-19	0.477
14_2_4_121	MW-04	Appendix IV	Radium 226 and 228	pCi/L	20	7	35%	-0.00126	0.023	↔	0.00017207	0.635	↔	2024-05-26	0.498
14_2_4_122	MW-04	Appendix IV	Selenium	mg/L	20	5	25%	< 0.0001	0.088	↔	< 0.0001	0.255	↔	2025-04-21	0.238
14_2_4_125	MW-04	Appendix IV	Thallium	mg/L	20	20	100%	< 0.0001	0.263	↔	< 0.0001	0.101	↔	2023-04-19	0.215
14_2_5_111	MW-04	Part 115	Copper	mg/L	20	14	70%	< 0.0001	0.013	↔	< 0.0001	0.125	↔	2026-02-18	0.410
14_2_5_114	MW-04	Part 115	Iron	mg/L	20	0	0%	-0.0042646	0.009	↓	0.0055875	0.309	↔	2025-04-21	0.398
14_2_5_119	MW-04	Part 115	Nickel	mg/L	20	0	0%	< 0.0001	0.246	↔	< 0.0001	0.015	↔	2023-06-27	0.355
14_2_5_123	MW-04	Part 115	Silver	mg/L	20	20	100%	< 0.0001	0.215	↔	< 0.0001	1.000	↔	2025-05-12	0.170
14_2_5_128	MW-04	Part 115	Vanadium	mg/L	20	10	50%	< 0.0001	0.000	↑	< 0.0001	0.004	↓	2024-10-15	0.686
14_2_5_129	MW-04	Part 115	Zinc	mg/L	20	10	50%	< 0.0001	0.964	↔	< 0.0001	0.001	↑	2025-06-21	0.768
16_1_3_105	MW-06	Appendix III	Boron	mg/L	20	0	0%	-0.029194	0.376	↔	0.0009531	0.325	↔	2023-03-04	0.179
16_1_3_107	MW-06	Appendix III	Calcium	mg/L	20	0	0%	0.61623	0.242	↔	-0.070385	0.000	↓	2023-03-13	0.601
16_1_3_108	MW-06	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	-0.69975	0.019	↔	-0.023665	0.096	↔	2023-04-10	0.735
16_1_3_112	MW-06	Appendix III	Fluoride	mg/L	20	0	0%	-0.003014	0.412	↔	0.00035745	0.004	↑	2023-03-13	0.437
16_1_3_120	MW-06	Appendix III	pH (field)	su	20	0	0%	-0.0034986	0.674	↔	0.00030519	0.017	↔	2023-02-05	0.313
16_1_3_124	MW-06	Appendix III	Sulfate (as SO4)	mg/L	20	2	10%	-0.00082488	0.940	↔	0.45111	0.002	↑	2026-01-03	0.748
16_1_3_126	MW-06	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	-0.31544	0.184	↔	-0.03209	0.655	↔	2023-10-24	0.338
16_1_4_101	MW-06	Appendix IV	Antimony	mg/L	20	17	85%	< 0.0001	0.473	↔	< 0.0001	0.859	↔	2025-08-14	0.040
16_1_4_102	MW-06	Appendix IV	Arsenic	mg/L	20	0	0%	< 0.0001	0.499	↔	< 0.0001	0.325	↔	2023-10-23	0.092
16_1_4_103	MW-06	Appendix IV	Barium	mg/L	20	0	0%	< 0.0001	0.764	↔	-0.0047321	0.030	↔	2026-04-12	0.422
16_1_4_106	MW-06	Appendix IV	Cadmium	mg/L	20	20	100%	< 0.0001	0.346	↔	< 0.0001	0.108	↔	2023-05-22	0.207
16_1_4_109	MW-06	Appendix IV	Chromium, Total	mg/L	20	0	0%	< 0.0001	0.128	↔	< 0.0001	0.788	↔	2024-04-06	0.433
16_1_4_110	MW-06	Appendix IV	Cobalt	mg/L	20	0	0%	< 0.0001	0.587	↔	< 0.0001	0.310	↔	2025-05-04	0.174
16_1_4_113	MW-06	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	-0.003014	0.412	↔	0.00035745	0.004	↑	2023-03-13	0.437
16_1_4_115	MW-06	Appendix IV	Lead	mg/L	20	10	50%	< 0.0001	0.087	↔	< 0.0001	0.692	↔	2024-07-18	0.279
16_1_4_116	MW-06	Appendix IV	Lithium	mg/L	20	0	0%	-0.00016137	0.033	↔	< 0.0001	0.399	↔	2024-04-01	0.487
16_1_4_117	MW-06	Appendix IV	Mercury	ng/L	20	15	75%	< 0.0001	1.000	↔	-0.25359	0.000	↓	2024-06-08	0.837
16_1_4_118	MW-06	Appendix IV	Molybdenum	mg/L	20	10	50%	< 0.0001	0.530	↔	< 0.0001	0.258	↔	2025-06-21	0.160
16_1_4_122	MW-06	Appendix IV	Selenium	mg/L	20	5	25%	< 0.0001	0.515	↔	< 0.0001	0.494	↔	2024-02-12	0.085
16_1_4_125	MW-06	Appendix IV	Thallium	mg/L	20	19	95%	< 0.0001	0.218	↔	< 0.0001	0.843	↔	2025-05-29	0.140
16_1_5_111	MW-06	Part 115	Copper	mg/L	20	13	65%	< 0.0001	0.920	↔	< 0.0001	0.162	↔	2025-07-14	0.295
16_1_5_114	MW-06	Part 115	Iron	mg/L	20	0	0%	0.012682	0.451	↔	-0.02172	0.001	↓	2024-02-12	0.617
16_1_5_119	MW-06	Part 115	Nickel	mg/L	20	6	30%	< 0.0001	0.467	↔	< 0.0001	0.198	↔	2024-07-24	0.185
16_1_5_128	MW-06	Part 115	Vanadium	mg/L	20	14	70%	< 0.0001	0.998	↔	< 0.0001	0.323	↔	2025-06-20	0.179
16_1_5_129	MW-06	Part 115	Zinc	mg/L	20	2	10%	-0.00010036	0.363	↔	< 0.0001	0.030	↔	2023-12-21	0.322
17_1_3_105	MW-07	Appendix III	Boron	mg/L	20	0	0%	-0.0010646	0.199	↔	-0.020058	0.224	↔	2026-02-19	0.473
17_1_3_107	MW-07	Appendix III	Calcium	mg/L	20	0	0%	0.01831	0.020	↔	-0.073239	0.612	↔	2026-02-19	0.310
17_1_3_108	MW-07	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	-0.010417	0.157	↔	0.0031225	0.000	↑	2023-05-22	0.716
17_1_3_120	MW-07	Appendix III	pH (field)	su	20	0	0%	0.0002207	0.352	↔	-0.0001362	0.417	↔	2024-04-08	0.092
17_1_3_124	MW-07	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	0.0096601	0.098	↔	-0.1283	0.259	↔	2026-02-19	0.275
17_1_3_126	MW-07	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	0.23942	0.099	↔	0.042352	0.529	↔	2024-04-07	0.527

(Table continues on next page)

Table 9: Trend Tests: Piecewise Linear-Linear *(continued)*

								Line 1			Line 2				
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Slope	p-Value	Trend	Slope	p-Value	Trend	Break 1	R-Squared
17_1_4_102	MW-07	Appendix IV	Arsenic	mg/L	20	0	0%	< 0.0001	0.340	↔	< 0.0001	0.024	↔	2023-11-27	0.363
17_1_4_103	MW-07	Appendix IV	Barium	mg/L	20	0	0%	< 0.0001	0.001	↑	-0.00028185	0.272	↔	2025-12-05	0.547
17_1_4_109	MW-07	Appendix IV	Chromium, Total	mg/L	20	0	0%	< 0.0001	0.287	↔	< 0.0001	0.184	↔	2024-07-16	0.166
17_1_4_110	MW-07	Appendix IV	Cobalt	mg/L	20	0	0%	< 0.0001	0.460	↔	< 0.0001	0.032	↔	2024-07-17	0.458
17_1_4_115	MW-07	Appendix IV	Lead	mg/L	20	20	100%	< 0.0001	0.000	↓	< 0.0001	1.000	↔	2023-07-30	0.859
17_1_4_116	MW-07	Appendix IV	Lithium	mg/L	20	0	0%	< 0.0001	0.211	↔	< 0.0001	0.070	↔	2024-02-13	0.266
17_1_4_117	MW-07	Appendix IV	Mercury	ng/L	20	19	95%	< 0.0001	1.000	↔	-0.25417	0.000	↓	2024-06-08	0.837
17_1_4_118	MW-07	Appendix IV	Molybdenum	mg/L	20	20	100%	< 0.0001	0.000	↓	< 0.0001	0.419	↔	2023-08-12	0.844
17_1_4_121	MW-07	Appendix IV	Radium 226 and 228	pCi/L	20	2	10%	-0.00058071	0.561	↔	< 0.0001	0.907	↔	2024-04-07	0.098
17_1_4_122	MW-07	Appendix IV	Selenium	mg/L	20	9	45%	< 0.0001	0.052	↔	< 0.0001	0.705	↔	2023-06-26	0.556
17_1_5_111	MW-07	Part 115	Copper	mg/L	20	15	75%	< 0.0001	0.107	↔	< 0.0001	0.275	↔	2025-02-26	0.209
17_1_5_114	MW-07	Part 115	Iron	mg/L	20	0	0%	0.0039445	0.009	↑	0.016301	0.295	↔	2026-02-12	0.595
17_1_5_119	MW-07	Part 115	Nickel	mg/L	20	14	70%	< 0.0001	0.767	↔	< 0.0001	0.000	↓	2024-10-15	0.834
17_1_5_128	MW-07	Part 115	Vanadium	mg/L	20	12	60%	< 0.0001	0.041	↔	< 0.0001	0.640	↔	2024-10-15	0.339
17_1_5_129	MW-07	Part 115	Zinc	mg/L	20	10	50%	< 0.0001	0.542	↔	< 0.0001	0.055	↔	2024-01-18	0.260
18_1_3_105	MW-08	Appendix III	Boron	mg/L	20	0	0%	0.070744	0.262	↔	-0.0013736	0.128	↔	2023-02-06	0.391
18_1_3_108	MW-08	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	-0.0033085	0.976	↔	0.067651	0.062	↔	2023-12-17	0.361
18_1_3_112	MW-08	Appendix III	Fluoride	mg/L	20	0	0%	0.0091358	0.320	↔	0.00010795	0.402	↔	2023-02-06	0.425
18_1_3_120	MW-08	Appendix III	pH (field)	su	20	0	0%	0.0054546	0.126	↔	< 0.0001	0.606	↔	2023-03-14	0.254
18_1_3_124	MW-08	Appendix III	Sulfate (as SO4)	mg/L	20	5	25%	0.033776	0.051	↔	-0.046604	0.447	↔	2025-04-20	0.249
18_1_4_101	MW-08	Appendix IV	Antimony	mg/L	20	12	60%	< 0.0001	0.552	↔	< 0.0001	0.100	↔	2023-02-06	0.212
18_1_4_102	MW-08	Appendix IV	Arsenic	mg/L	20	0	0%	< 0.0001	0.665	↔	< 0.0001	0.100	↔	2024-12-19	0.444
18_1_4_103	MW-08	Appendix IV	Barium	mg/L	20	0	0%	-0.00076954	0.393	↔	0.00016182	0.557	↔	2023-12-08	0.098
18_1_4_104	MW-08	Appendix IV	Beryllium	mg/L	20	19	95%	< 0.0001	0.230	↔	< 0.0001	0.276	↔	2026-02-24	0.410
18_1_4_106	MW-08	Appendix IV	Cadmium	mg/L	20	19	95%	< 0.0001	0.000	↑	< 0.0001	0.961	↔	2023-08-17	0.762
18_1_4_109	MW-08	Appendix IV	Chromium, Total	mg/L	20	0	0%	< 0.0001	0.284	↔	< 0.0001	0.000	↓	2023-01-20	0.678
18_1_4_110	MW-08	Appendix IV	Cobalt	mg/L	20	0	0%	< 0.0001	0.706	↔	< 0.0001	0.302	↔	2025-09-20	0.153
18_1_4_113	MW-08	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	0.0091358	0.320	↔	0.00010795	0.402	↔	2023-02-06	0.425
18_1_4_115	MW-08	Appendix IV	Lead	mg/L	20	12	60%	< 0.0001	0.284	↔	< 0.0001	0.454	↔	2024-10-16	0.102
18_1_4_116	MW-08	Appendix IV	Lithium	mg/L	20	0	0%	0.0013429	0.050	↔	< 0.0001	0.000	↓	2023-01-13	0.646
18_1_4_117	MW-08	Appendix IV	Mercury	ng/L	20	18	90%	< 0.0001	1.000	↔	-0.2536	0.000	↓	2024-06-08	0.836
18_1_4_118	MW-08	Appendix IV	Molybdenum	mg/L	20	2	10%	< 0.0001	0.292	↔	< 0.0001	0.245	↔	2023-06-01	0.151
18_1_4_121	MW-08	Appendix IV	Radium 226 and 228	pCi/L	20	5	25%	-0.0064702	0.654	↔	-0.00039666	0.064	↔	2023-02-06	0.346
18_1_4_122	MW-08	Appendix IV	Selenium	mg/L	20	7	35%	< 0.0001	0.771	↔	< 0.0001	0.162	↔	2025-02-25	0.295
18_1_5_111	MW-08	Part 115	Copper	mg/L	20	6	30%	< 0.0001	0.084	↔	< 0.0001	0.290	↔	2024-12-29	0.258
18_1_5_114	MW-08	Part 115	Iron	mg/L	20	0	0%	-0.16071	0.062	↔	-0.0096383	0.001	↓	2023-02-17	0.751
18_1_5_119	MW-08	Part 115	Nickel	mg/L	20	0	0%	< 0.0001	0.010	↔	< 0.0001	0.255	↔	2024-10-16	0.421
18_1_5_128	MW-08	Part 115	Vanadium	mg/L	20	17	85%	< 0.0001	0.682	↔	< 0.0001	0.000	↓	2025-02-25	0.736
18_1_5_129	MW-08	Part 115	Zinc	mg/L	20	3	15%	< 0.0001	0.687	↔	< 0.0001	0.124	↔	2023-10-23	0.179
19_2_3_105	MW-09	Appendix III	Boron	mg/L	20	0	0%	0.00032479	0.753	↔	-0.004534	0.014	↔	2025-01-02	0.544
19_2_3_107	MW-09	Appendix III	Calcium	mg/L	20	0	0%	1.2894	0.085	↔	0.12548	0.002	↑	2023-03-14	0.697
19_2_3_108	MW-09	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	0.038839	0.000	↑	0.21097	0.031	↔	2025-12-24	0.852

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Table 9: Trend Tests: Piecewise Linear-Linear *(continued)*

								Line 1			Line 2				
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Slope	p-Value	Trend	Slope	p-Value	Trend	Break 1	R-Squared
19_2_3_112	MW-09	Appendix III	Fluoride	mg/L	20	0	0%	0.0028651	0.079	↔	-0.00071379	0.006	↓	2023-06-27	0.468
19_2_3_120	MW-09	Appendix III	pH (field)	su	20	0	0%	0.0013612	0.493	↔	-0.00031955	0.000	↓	2023-03-13	0.673
19_2_3_124	MW-09	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	3.4448	0.168	↔	0.52461	0.000	↑	2023-03-14	0.727
19_2_3_126	MW-09	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	4.7268	0.111	↔	0.75701	0.000	↑	2023-03-20	0.803
19_2_4_101	MW-09	Appendix IV	Antimony	mg/L	20	12	60%	< 0.0001	0.818	↔	< 0.0001	0.379	↔	2024-02-12	0.061
19_2_4_102	MW-09	Appendix IV	Arsenic	mg/L	20	0	0%	< 0.0001	0.736	↔	< 0.0001	0.981	↔	2023-04-17	0.034
19_2_4_103	MW-09	Appendix IV	Barium	mg/L	20	0	0%	-0.0077198	0.154	↔	-0.00015013	0.568	↔	2023-04-17	0.463
19_2_4_106	MW-09	Appendix IV	Cadmium	mg/L	20	19	95%	< 0.0001	0.600	↔	< 0.0001	0.877	↔	2023-05-22	0.086
19_2_4_109	MW-09	Appendix IV	Chromium, Total	mg/L	20	0	0%	< 0.0001	0.439	↔	< 0.0001	0.668	↔	2023-10-24	0.178
19_2_4_110	MW-09	Appendix IV	Cobalt	mg/L	20	0	0%	< 0.0001	0.869	↔	< 0.0001	0.210	↔	2025-07-13	0.212
19_2_4_113	MW-09	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	0.0028651	0.079	↔	-0.00071379	0.006	↓	2023-06-27	0.468
19_2_4_115	MW-09	Appendix IV	Lead	mg/L	20	17	85%	< 0.0001	0.514	↔	< 0.0001	0.302	↔	2023-02-06	0.091
19_2_4_116	MW-09	Appendix IV	Lithium	mg/L	20	0	0%	< 0.0001	0.349	↔	0.00033893	0.002	↑	2025-01-20	0.604
19_2_4_117	MW-09	Appendix IV	Mercury	ng/L	20	14	70%	3.5815	0.182	↔	-1.3012	0.027	↔	2023-10-23	0.331
19_2_4_118	MW-09	Appendix IV	Molybdenum	mg/L	20	0	0%	< 0.0001	0.099	↔	< 0.0001	0.060	↔	2023-05-22	0.393
19_2_4_121	MW-09	Appendix IV	Radium 226 and 228	pCi/L	20	18	90%	0.00025182	0.658	↔	-0.00022924	0.205	↔	2024-02-12	0.115
19_2_4_122	MW-09	Appendix IV	Selenium	mg/L	20	2	10%	< 0.0001	0.840	↔	< 0.0001	0.208	↔	2024-12-08	0.293
19_2_4_125	MW-09	Appendix IV	Thallium	mg/L	20	20	100%	< 0.0001	0.730	↔	< 0.0001	0.356	↔	2025-02-24	0.076
19_2_5_111	MW-09	Part 115	Copper	mg/L	20	11	55%	< 0.0001	0.630	↔	< 0.0001	0.042	↔	2025-07-21	0.518
19_2_5_119	MW-09	Part 115	Nickel	mg/L	20	0	0%	< 0.0001	0.120	↔	< 0.0001	0.405	↔	2025-02-24	0.265
19_2_5_123	MW-09	Part 115	Silver	mg/L	20	20	100%	< 0.0001	0.224	↔	< 0.0001	0.070	↔	2023-04-18	0.251
19_2_5_129	MW-09	Part 115	Zinc	mg/L	20	8	40%	< 0.0001	0.651	↔	< 0.0001	0.162	↔	2024-05-06	0.213
20_3_3_105	MW-10	Appendix III	Boron	mg/L	20	0	0%	-0.30556	0.280	↔	0.012077	0.008	↑	2023-01-08	0.398
20_3_3_107	MW-10	Appendix III	Calcium	mg/L	20	0	0%	0.33087	0.097	↔	-0.27209	0.058	↔	2024-05-31	0.313
20_3_3_108	MW-10	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	0.41035	0.001	↑	-0.49911	0.437	↔	2025-08-14	0.539
20_3_3_112	MW-10	Appendix III	Fluoride	mg/L	20	0	0%	-0.0029081	0.422	↔	0.0018512	0.292	↔	2024-04-06	0.106
20_3_3_120	MW-10	Appendix III	pH (field)	su	20	0	0%	0.0018421	0.578	↔	-0.00036584	0.152	↔	2023-05-06	0.141
20_3_3_124	MW-10	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	1.0904	0.113	↔	-1.1063	0.029	↔	2024-04-07	0.400
20_3_3_126	MW-10	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	1.5013	0.029	↔	-1.1729	0.098	↔	2024-07-17	0.356
20_3_4_101	MW-10	Appendix IV	Antimony	mg/L	20	15	75%	< 0.0001	0.350	↔	< 0.0001	0.111	↔	2023-04-18	0.191
20_3_4_102	MW-10	Appendix IV	Arsenic	mg/L	20	0	0%	< 0.0001	0.069	↔	< 0.0001	0.684	↔	2024-10-15	0.393
20_3_4_103	MW-10	Appendix IV	Barium	mg/L	20	0	0%	-0.00012239	0.536	↔	0.00059918	0.010	↔	2024-09-01	0.544
20_3_4_106	MW-10	Appendix IV	Cadmium	mg/L	20	20	100%	< 0.0001	0.347	↔	< 0.0001	0.109	↔	2023-05-22	0.207
20_3_4_109	MW-10	Appendix IV	Chromium, Total	mg/L	20	0	0%	< 0.0001	0.467	↔	< 0.0001	0.193	↔	2024-05-23	0.155
20_3_4_110	MW-10	Appendix IV	Cobalt	mg/L	20	1	5%	< 0.0001	0.365	↔	< 0.0001	0.509	↔	2024-07-14	0.108
20_3_4_113	MW-10	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	-0.0029081	0.422	↔	0.0018512	0.292	↔	2024-04-06	0.106
20_3_4_115	MW-10	Appendix IV	Lead	mg/L	20	17	85%	< 0.0001	0.561	↔	< 0.0001	0.011	↔	2023-02-05	0.357
20_3_4_116	MW-10	Appendix IV	Lithium	mg/L	20	0	0%	0.0022404	0.648	↔	-0.00010462	0.468	↔	2023-03-13	0.071
20_3_4_117	MW-10	Appendix IV	Mercury	ng/L	20	17	85%	1.1275	0.148	↔	-0.92592	0.098	↔	2024-04-07	0.269
20_3_4_118	MW-10	Appendix IV	Molybdenum	mg/L	20	0	0%	< 0.0001	0.035	↔	< 0.0001	0.500	↔	2023-08-26	0.576
20_3_4_121	MW-10	Appendix IV	Radium 226 and 228	pCi/L	20	15	75%	< 0.0001	0.691	↔	-0.00091537	0.612	↔	2025-10-20	0.086
20_3_4_122	MW-10	Appendix IV	Selenium	mg/L	20	1	5%	< 0.0001	0.455	↔	< 0.0001	0.135	↔	2024-02-12	0.161

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Table 9: Trend Tests: Piecewise Linear-Linear *(continued)*

								Line 1			Line 2				
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Slope	p-Value	Trend	Slope	p-Value	Trend	Break 1	R-Squared
20_3_4_125	MW-10	Appendix IV	Thallium	mg/L	20	20	100%	< 0.0001	0.790	↔	< 0.0001	0.215	↔	2024-07-17	0.224
20_3_5_111	MW-10	Part 115	Copper	mg/L	20	16	80%	< 0.0001	0.257	↔	< 0.0001	0.016	↔	2026-04-16	0.451
20_3_5_114	MW-10	Part 115	Iron	mg/L	20	0	0%	0.0017239	0.360	↔	-0.006512	0.155	↔	2025-03-31	0.198
20_3_5_119	MW-10	Part 115	Nickel	mg/L	20	7	35%	< 0.0001	0.471	↔	< 0.0001	0.069	↔	2025-02-25	0.257
20_3_5_123	MW-10	Part 115	Silver	mg/L	20	20	100%	< 0.0001	0.212	↔	< 0.0001	1.000	↔	2025-05-09	0.171
20_3_5_128	MW-10	Part 115	Vanadium	mg/L	20	12	60%	< 0.0001	0.969	↔	< 0.0001	0.341	↔	2024-02-13	0.144
20_3_5_129	MW-10	Part 115	Zinc	mg/L	20	7	35%	< 0.0001	0.992	↔	< 0.0001	0.092	↔	2025-02-26	0.402
21_2_3_105	MW-11	Appendix III	Boron	mg/L	20	0	0%	-0.067608	0.352	↔	0.0049341	0.033	↔	2023-03-13	0.310
21_2_3_107	MW-11	Appendix III	Calcium	mg/L	20	0	0%	1.0649	0.251	↔	-0.088083	0.066	↔	2023-03-14	0.250
21_2_3_108	MW-11	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	-0.29854	0.156	↔	0.0054598	0.592	↔	2023-03-20	0.247
21_2_3_112	MW-11	Appendix III	Fluoride	mg/L	20	0	0%	-0.0069026	0.356	↔	0.0006553	0.008	↑	2023-03-13	0.390
21_2_3_120	MW-11	Appendix III	pH (field)	su	20	0	0%	-0.00020368	0.140	↔	0.00015124	0.484	↔	2025-02-24	0.249
21_2_3_124	MW-11	Appendix III	Sulfate (as SO4)	mg/L	20	7	35%	-0.14372	0.127	↔	0.039964	0.678	↔	2024-08-08	0.238
21_2_3_126	MW-11	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	2.6194	0.402	↔	-0.26838	0.096	↔	2023-04-02	0.198
21_2_4_101	MW-11	Appendix IV	Antimony	mg/L	20	15	75%	< 0.0001	0.553	↔	< 0.0001	0.920	↔	2023-10-23	0.112
21_2_4_102	MW-11	Appendix IV	Arsenic	mg/L	20	0	0%	< 0.0001	0.367	↔	< 0.0001	0.021	↔	2023-04-17	0.320
21_2_4_103	MW-11	Appendix IV	Barium	mg/L	20	0	0%	-0.0033106	0.276	↔	0.00038934	0.017	↔	2023-04-17	0.353
21_2_4_106	MW-11	Appendix IV	Cadmium	mg/L	20	17	85%	< 0.0001	0.427	↔	< 0.0001	0.872	↔	2023-09-09	0.103
21_2_4_109	MW-11	Appendix IV	Chromium, Total	mg/L	20	0	0%	< 0.0001	0.171	↔	< 0.0001	0.641	↔	2023-04-18	0.209
21_2_4_110	MW-11	Appendix IV	Cobalt	mg/L	20	0	0%	< 0.0001	0.391	↔	< 0.0001	0.692	↔	2025-10-23	0.063
21_2_4_113	MW-11	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	-0.0069026	0.356	↔	0.0006553	0.008	↑	2023-03-13	0.390
21_2_4_115	MW-11	Appendix IV	Lead	mg/L	20	3	15%	-0.0002027	0.174	↔	< 0.0001	0.504	↔	2023-04-22	0.211
21_2_4_116	MW-11	Appendix IV	Lithium	mg/L	20	0	0%	-0.0010986	0.120	↔	< 0.0001	0.123	↔	2023-03-17	0.286
21_2_4_117	MW-11	Appendix IV	Mercury	ng/L	20	13	65%	0.61507	0.147	↔	-0.6025	0.051	↔	2024-04-07	0.339
21_2_4_121	MW-11	Appendix IV	Radium 226 and 228	pCi/L	19	7	37%	-0.00098588	0.169	↔	0.00018634	0.708	↔	2024-06-25	0.264
21_2_4_122	MW-11	Appendix IV	Selenium	mg/L	20	3	15%	< 0.0001	0.330	↔	< 0.0001	0.412	↔	2024-02-13	0.104
21_2_4_125	MW-11	Appendix IV	Thallium	mg/L	20	19	95%	< 0.0001	0.622	↔	< 0.0001	0.047	↔	2023-03-07	0.234
21_2_5_111	MW-11	Part 115	Copper	mg/L	20	4	20%	< 0.0001	0.312	↔	< 0.0001	0.640	↔	2023-04-14	0.209
21_2_5_114	MW-11	Part 115	Iron	mg/L	20	0	0%	-0.037053	0.403	↔	0.0063757	0.009	↑	2023-03-29	0.380
21_2_5_119	MW-11	Part 115	Nickel	mg/L	20	0	0%	< 0.0001	0.560	↔	< 0.0001	0.241	↔	2023-04-17	0.113
21_2_5_128	MW-11	Part 115	Vanadium	mg/L	20	13	65%	< 0.0001	0.141	↔	< 0.0001	0.204	↔	2024-04-07	0.206
21_2_5_129	MW-11	Part 115	Zinc	mg/L	20	4	20%	-0.00022262	0.035	↔	< 0.0001	0.002	↑	2023-08-30	0.549
22_2_3_105	MW-12	Appendix III	Boron	mg/L	20	0	0%	0.00014919	0.061	↔	-0.00089952	0.293	↔	2025-10-24	0.298
22_2_3_107	MW-12	Appendix III	Calcium	mg/L	20	0	0%	-0.0010329	0.942	↔	-0.090334	0.573	↔	2025-10-23	0.138
22_2_3_108	MW-12	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	-0.0025103	0.465	↔	-0.037641	0.330	↔	2026-01-19	0.257
22_2_3_112	MW-12	Appendix III	Fluoride	mg/L	20	0	0%	-0.0033327	0.304	↔	< 0.0001	0.710	↔	2023-02-06	0.408
22_2_3_120	MW-12	Appendix III	pH (field)	su	20	0	0%	0.0040427	0.542	↔	-0.0002568	0.207	↔	2023-03-12	0.140
22_2_3_124	MW-12	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	-0.15171	0.013	↔	-0.056204	0.048	↔	2024-04-07	0.803
22_2_3_126	MW-12	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	0.035669	0.588	↔	-0.45919	0.533	↔	2025-10-22	0.119
22_2_4_101	MW-12	Appendix IV	Antimony	mg/L	20	0	0%	< 0.0001	0.506	↔	< 0.0001	0.510	↔	2023-10-10	0.071
22_2_4_106	MW-12	Appendix IV	Cadmium	mg/L	20	0	0%	< 0.0001	0.017	↔	< 0.0001	0.239	↔	2025-09-10	0.355
22_2_4_109	MW-12	Appendix IV	Chromium, Total	mg/L	20	6	30%	< 0.0001	0.524	↔	< 0.0001	0.340	↔	2024-04-07	0.080

(Table continues on next page)

Table 9: Trend Tests: Piecewise Linear-Linear *(continued)*

								Line 1			Line 2				
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Slope	p-Value	Trend	Slope	p-Value	Trend	Break 1	R-Squared
22_2_4_110	MW-12	Appendix IV	Cobalt	mg/L	20	5	25%	< 0.0001	0.022	↔	< 0.0001	0.592	↔	2025-10-22	0.301
22_2_4_113	MW-12	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	-0.0033327	0.304	↔	< 0.0001	0.710	↔	2023-02-06	0.408
22_2_4_115	MW-12	Appendix IV	Lead	mg/L	20	6	30%	< 0.0001	0.013	↔	< 0.0001	0.506	↔	2026-03-04	0.347
22_2_4_116	MW-12	Appendix IV	Lithium	mg/L	20	1	5%	< 0.0001	0.389	↔	< 0.0001	0.507	↔	2023-06-27	0.080
22_2_4_117	MW-12	Appendix IV	Mercury	ng/L	20	12	60%	0.061522	0.491	↔	-0.26381	0.000	↓	2024-04-07	0.823
22_2_4_118	MW-12	Appendix IV	Molybdenum	mg/L	20	0	0%	< 0.0001	0.237	↔	< 0.0001	0.322	↔	2024-10-16	0.143
22_2_4_121	MW-12	Appendix IV	Radium 226 and 228	pCi/L	20	12	60%	0.0015906	0.461	↔	-0.00012972	0.233	↔	2023-04-18	0.145
22_2_4_122	MW-12	Appendix IV	Selenium	mg/L	20	0	0%	< 0.0001	0.325	↔	< 0.0001	0.436	↔	2023-06-27	0.104
22_2_5_114	MW-12	Part 115	Iron	mg/L	20	6	30%	-0.0065	0.418	↔	0.00024249	0.048	↔	2023-01-08	0.249
22_2_5_119	MW-12	Part 115	Nickel	mg/L	20	0	0%	< 0.0001	0.047	↔	< 0.0001	0.088	↔	2025-10-21	0.333
22_2_5_128	MW-12	Part 115	Vanadium	mg/L	20	6	30%	< 0.0001	0.087	↔	< 0.0001	0.066	↔	2024-10-15	0.316
22_2_5_129	MW-12	Part 115	Zinc	mg/L	20	0	0%	< 0.0001	0.842	↔	< 0.0001	0.002	↑	2024-02-12	0.617
26_1_3_107	MW-16	Appendix III	Calcium	mg/L	10	0	0%	0.21537	0.280	↔	-0.14063	0.034	↔	2025-02-15	0.604
26_1_3_108	MW-16	Appendix III	Chloride (as Cl)	mg/L	10	0	0%	0.0094317	0.146	↔	-0.024632	0.324	↔	2025-12-31	0.397
26_1_3_112	MW-16	Appendix III	Fluoride	mg/L	10	1	10%	-0.00025101	0.683	↔	0.00013131	0.110	↔	2024-10-16	0.386
26_1_3_126	MW-16	Appendix III	Total Dissolved Solids	mg/L	10	0	0%	0.58956	0.282	↔	-0.36158	0.044	↔	2025-01-31	0.572
26_1_4_101	MW-16	Appendix IV	Antimony	mg/L	10	9	90%	< 0.0001	0.590	↔	< 0.0001	0.156	↔	2024-10-16	0.335
26_1_4_102	MW-16	Appendix IV	Arsenic	mg/L	10	0	0%	< 0.0001	0.946	↔	< 0.0001	0.331	↔	2025-04-20	0.245
26_1_4_103	MW-16	Appendix IV	Barium	mg/L	10	0	0%	< 0.0001	0.764	↔	0.00033455	0.117	↔	2025-06-19	0.543
26_1_4_113	MW-16	Appendix IV	Fluoride (App IV)	mg/L	10	1	10%	-0.00025101	0.683	↔	0.00013131	0.110	↔	2024-10-16	0.386
26_1_4_115	MW-16	Appendix IV	Lead	mg/L	10	6	60%	< 0.0001	0.375	↔	< 0.0001	0.426	↔	2025-10-20	0.220
26_1_4_117	MW-16	Appendix IV	Mercury	ng/L	10	8	80%	-0.35542	0.019	↔	< 0.0001	1.000	↔	2025-10-07	0.792
26_1_4_118	MW-16	Appendix IV	Molybdenum	mg/L	10	9	90%	< 0.0001	1.000	↔	< 0.0001	0.341	↔	2025-08-26	0.366
26_1_4_122	MW-16	Appendix IV	Selenium	mg/L	10	1	10%	< 0.0001	0.865	↔	< 0.0001	0.299	↔	2025-02-25	0.378
26_1_5_111	MW-16	Part 115	Copper	mg/L	10	5	50%	< 0.0001	0.307	↔	< 0.0001	0.248	↔	2026-02-18	0.325
26_1_5_119	MW-16	Part 115	Nickel	mg/L	10	1	10%	< 0.0001	0.110	↔	< 0.0001	0.854	↔	2026-02-19	0.424
26_1_5_128	MW-16	Part 115	Vanadium	mg/L	10	3	30%	< 0.0001	0.468	↔	< 0.0001	0.749	↔	2025-09-11	0.121
27_1_3_107	MW-17	Appendix III	Calcium	mg/L	10	0	0%	-0.2	0.451	↔	-0.024336	0.433	↔	2024-07-30	0.403
27_1_3_108	MW-17	Appendix III	Chloride (as Cl)	mg/L	10	0	0%	0.0088997	0.940	↔	-0.035569	0.037	↔	2024-10-14	0.625
27_1_3_112	MW-17	Appendix III	Fluoride	mg/L	10	0	0%	0.00031137	0.234	↔	-0.00064375	0.523	↔	2026-01-27	0.302
27_1_3_124	MW-17	Appendix III	Sulfate (as SO4)	mg/L	10	2	20%	0.0099966	0.767	↔	-0.12386	0.641	↔	2026-02-18	0.122
27_1_4_101	MW-17	Appendix IV	Antimony	mg/L	10	8	80%	< 0.0001	0.207	↔	< 0.0001	0.559	↔	2026-02-18	0.287
27_1_4_102	MW-17	Appendix IV	Arsenic	mg/L	10	0	0%	< 0.0001	0.422	↔	< 0.0001	0.765	↔	2025-02-15	0.169
27_1_4_103	MW-17	Appendix IV	Barium	mg/L	10	0	0%	< 0.0001	0.837	↔	0.0014286	0.612	↔	2026-04-03	0.082
27_1_4_109	MW-17	Appendix IV	Chromium, Total	mg/L	10	0	0%	< 0.0001	0.898	↔	< 0.0001	0.803	↔	2025-02-03	0.020
27_1_4_110	MW-17	Appendix IV	Cobalt	mg/L	10	0	0%	< 0.0001	0.493	↔	< 0.0001	0.585	↔	2026-02-18	0.166
27_1_4_113	MW-17	Appendix IV	Fluoride (App IV)	mg/L	10	0	0%	0.00031137	0.234	↔	-0.00064375	0.523	↔	2026-01-27	0.302
27_1_4_117	MW-17	Appendix IV	Mercury	ng/L	10	7	70%	-0.36916	0.014	↔	-0.0006205	0.998	↔	2025-09-19	0.810
27_1_4_118	MW-17	Appendix IV	Molybdenum	mg/L	10	0	0%	< 0.0001	0.933	↔	< 0.0001	0.686	↔	2025-02-06	0.059
27_1_4_122	MW-17	Appendix IV	Selenium	mg/L	10	0	0%	< 0.0001	0.179	↔	< 0.0001	0.542	↔	2026-02-18	0.314
27_1_5_111	MW-17	Part 115	Copper	mg/L	10	1	10%	< 0.0001	0.251	↔	< 0.0001	0.509	↔	2026-03-05	0.264
27_1_5_119	MW-17	Part 115	Nickel	mg/L	10	0	0%	< 0.0001	0.977	↔	< 0.0001	0.738	↔	2025-02-03	0.046

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Table 9: Trend Tests: Piecewise Linear-Linear *(continued)*

								Line 1			Line 2				
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Slope	p-Value	Trend	Slope	p-Value	Trend	Break 1	R-Squared
27_1_5_128	MW-17	Part 115	Vanadium	mg/L	10	0	0%	< 0.0001	0.242	↔	< 0.0001	0.981	↔	2025-07-16	0.453
28_1_3_105	MW-18	Appendix III	Boron	mg/L	20	0	0%	0.003677	0.008	↑	-0.00078963	0.546	↔	2024-08-16	0.555
28_1_3_107	MW-18	Appendix III	Calcium	mg/L	20	0	0%	-1.1356	0.142	↔	-0.045335	0.224	↔	2023-03-22	0.445
28_1_3_112	MW-18	Appendix III	Fluoride	mg/L	20	0	0%	0.0043268	0.263	↔	-0.00047449	0.401	↔	2023-07-10	0.143
28_1_3_120	MW-18	Appendix III	pH (field)	su	20	0	0%	0.00016741	0.001	↑	-0.0013724	0.011	↔	2025-11-29	0.666
28_1_3_124	MW-18	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	-7.1478	0.372	↔	-0.16677	0.158	↔	2023-02-07	0.442
28_1_3_126	MW-18	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	-0.26388	0.246	↔	-0.82569	0.133	↔	2025-02-26	0.534
28_1_4_101	MW-18	Appendix IV	Antimony	mg/L	20	3	15%	< 0.0001	0.874	↔	< 0.0001	0.120	↔	2024-12-15	0.318
28_1_4_102	MW-18	Appendix IV	Arsenic	mg/L	20	0	0%	< 0.0001	0.059	↔	< 0.0001	0.213	↔	2024-10-16	0.266
28_1_4_103	MW-18	Appendix IV	Barium	mg/L	20	0	0%	< 0.0001	0.952	↔	< 0.0001	0.065	↔	2025-05-22	0.501
28_1_4_106	MW-18	Appendix IV	Cadmium	mg/L	20	7	35%	< 0.0001	0.229	↔	< 0.0001	0.000	↑	2025-04-07	0.811
28_1_4_109	MW-18	Appendix IV	Chromium, Total	mg/L	20	16	80%	< 0.0001	0.893	↔	< 0.0001	0.253	↔	2024-06-18	0.214
28_1_4_110	MW-18	Appendix IV	Cobalt	mg/L	20	0	0%	< 0.0001	0.000	↓	< 0.0001	0.125	↔	2023-04-18	0.874
28_1_4_113	MW-18	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	0.0043268	0.263	↔	-0.00047449	0.401	↔	2023-07-10	0.143
28_1_4_115	MW-18	Appendix IV	Lead	mg/L	20	12	60%	< 0.0001	0.256	↔	< 0.0001	0.958	↔	2024-08-26	0.211
28_1_4_116	MW-18	Appendix IV	Lithium	mg/L	20	0	0%	-0.00021273	0.213	↔	< 0.0001	0.055	↔	2023-02-10	0.278
28_1_4_117	MW-18	Appendix IV	Mercury	ng/L	20	15	75%	< 0.0001	1.000	↔	-0.25163	0.000	↓	2024-06-06	0.834
28_1_4_118	MW-18	Appendix IV	Molybdenum	mg/L	20	0	0%	< 0.0001	0.412	↔	< 0.0001	0.203	↔	2023-08-07	0.375
28_1_4_121	MW-18	Appendix IV	Radium 226 and 228	pCi/L	20	10	50%	0.0021518	0.339	↔	-0.00022619	0.049	↔	2023-04-17	0.272
28_1_4_125	MW-18	Appendix IV	Thallium	mg/L	20	18	90%	< 0.0001	0.706	↔	< 0.0001	0.255	↔	2023-02-07	0.104
28_1_5_111	MW-18	Part 115	Copper	mg/L	20	0	0%	< 0.0001	0.704	↔	< 0.0001	0.076	↔	2025-04-20	0.428
28_1_5_114	MW-18	Part 115	Iron	mg/L	20	0	0%	-0.045647	0.148	↔	-0.0012161	0.190	↔	2023-02-21	0.463
28_1_5_119	MW-18	Part 115	Nickel	mg/L	20	0	0%	< 0.0001	0.002	↓	< 0.0001	0.032	↔	2023-08-24	0.601
28_1_5_123	MW-18	Part 115	Silver	mg/L	20	20	100%	< 0.0001	0.673	↔	< 0.0001	0.102	↔	2023-02-07	0.176
28_1_5_128	MW-18	Part 115	Vanadium	mg/L	20	18	90%	< 0.0001	1.000	↔	< 0.0001	0.000	↓	2024-11-25	0.867
28_1_5_129	MW-18	Part 115	Zinc	mg/L	20	0	0%	< 0.0001	0.138	↔	0.00024785	0.003	↑	2024-11-13	0.630
29_1_3_105	MW-19	Appendix III	Boron	mg/L	20	0	0%	-0.0064961	0.511	↔	0.00060245	0.051	↔	2023-03-12	0.239
29_1_3_107	MW-19	Appendix III	Calcium	mg/L	20	0	0%	-0.37831	0.090	↔	-0.051036	0.121	↔	2023-07-15	0.592
29_1_3_108	MW-19	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	-0.24111	0.002	↓	-0.015255	0.006	↓	2023-04-20	0.826
29_1_3_112	MW-19	Appendix III	Fluoride	mg/L	20	0	0%	-0.00091522	0.066	↔	0.00022351	0.506	↔	2024-04-08	0.292
29_1_3_120	MW-19	Appendix III	pH (field)	su	20	0	0%	0.0010373	0.521	↔	-0.00026827	0.037	↔	2023-05-05	0.274
29_1_3_124	MW-19	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	-5.3925	0.394	↔	-0.10896	0.213	↔	2023-02-07	0.430
29_1_3_126	MW-19	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	-2.4679	0.002	↓	-0.18308	0.075	↔	2023-07-03	0.801
29_1_4_101	MW-19	Appendix IV	Antimony	mg/L	20	14	70%	< 0.0001	0.352	↔	< 0.0001	0.747	↔	2023-04-18	0.106
29_1_4_102	MW-19	Appendix IV	Arsenic	mg/L	20	0	0%	< 0.0001	0.899	↔	< 0.0001	0.013	↔	2024-10-15	0.533
29_1_4_103	MW-19	Appendix IV	Barium	mg/L	20	0	0%	< 0.0001	0.118	↔	< 0.0001	0.166	↔	2023-03-27	0.512
29_1_4_106	MW-19	Appendix IV	Cadmium	mg/L	20	18	90%	< 0.0001	0.469	↔	< 0.0001	0.611	↔	2023-05-21	0.101
29_1_4_109	MW-19	Appendix IV	Chromium, Total	mg/L	20	6	30%	< 0.0001	0.127	↔	< 0.0001	0.671	↔	2023-05-24	0.348
29_1_4_110	MW-19	Appendix IV	Cobalt	mg/L	20	2	10%	< 0.0001	0.508	↔	< 0.0001	0.284	↔	2026-02-06	0.121
29_1_4_113	MW-19	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	-0.00091522	0.066	↔	0.00022351	0.506	↔	2024-04-08	0.292
29_1_4_115	MW-19	Appendix IV	Lead	mg/L	20	20	100%	< 0.0001	0.593	↔	< 0.0001	0.014	↔	2023-02-07	0.336
29_1_4_116	MW-19	Appendix IV	Lithium	mg/L	20	0	0%	< 0.0001	0.016	↔	< 0.0001	0.867	↔	2024-02-13	0.603

(Table continues on next page)

Table 9: Trend Tests: Piecewise Linear-Linear *(continued)*

								Line 1			Line 2				
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Slope	p-Value	Trend	Slope	p-Value	Trend	Break 1	R-Squared
29_1_4_117	MW-19	Appendix IV	Mercury	ng/L	20	18	90%	< 0.0001	1.000	↔	-0.25384	0.000	↓	2024-06-08	0.837
29_1_4_118	MW-19	Appendix IV	Molybdenum	mg/L	20	0	0%	< 0.0001	0.037	↔	< 0.0001	0.274	↔	2026-01-30	0.294
29_1_4_122	MW-19	Appendix IV	Selenium	mg/L	20	11	55%	< 0.0001	0.115	↔	< 0.0001	0.557	↔	2026-02-18	0.166
29_1_4_125	MW-19	Appendix IV	Thallium	mg/L	20	19	95%	< 0.0001	0.542	↔	< 0.0001	0.080	↔	2023-02-07	0.239
29_1_5_111	MW-19	Part 115	Copper	mg/L	20	16	80%	< 0.0001	0.448	↔	< 0.0001	0.962	↔	2023-07-01	0.085
29_1_5_114	MW-19	Part 115	Iron	mg/L	20	0	0%	0.010564	0.081	↔	-0.017818	0.000	↓	2024-07-17	0.629
29_1_5_119	MW-19	Part 115	Nickel	mg/L	20	1	5%	< 0.0001	0.061	↔	< 0.0001	0.510	↔	2025-10-22	0.223
29_1_5_123	MW-19	Part 115	Silver	mg/L	20	20	100%	< 0.0001	0.214	↔	< 0.0001	1.000	↔	2025-05-11	0.170
29_1_5_128	MW-19	Part 115	Vanadium	mg/L	20	14	70%	< 0.0001	0.436	↔	< 0.0001	0.783	↔	2023-07-12	0.141
29_1_5_129	MW-19	Part 115	Zinc	mg/L	20	10	50%	< 0.0001	0.008	↑	-0.00021171	0.487	↔	2026-02-20	0.385
30_1_3_107	MW-20	Appendix III	Calcium	mg/L	20	0	0%	-0.014281	0.638	↔	0.06283	0.208	↔	2025-02-03	0.149
30_1_3_112	MW-20	Appendix III	Fluoride	mg/L	20	0	0%	-0.0082857	0.000	↓	< 0.0001	0.735	↔	2023-01-07	0.764
30_1_3_120	MW-20	Appendix III	pH (field)	su	20	0	0%	0.0001158	0.315	↔	-0.00054842	0.056	↔	2025-04-01	0.328
30_1_3_124	MW-20	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	-0.18409	0.156	↔	-0.0016154	0.951	↔	2023-08-07	0.265
30_1_3_126	MW-20	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	-0.16049	0.014	↔	0.73747	0.539	↔	2026-02-19	0.337
30_1_4_101	MW-20	Appendix IV	Antimony	mg/L	20	8	40%	< 0.0001	0.057	↔	< 0.0001	0.538	↔	2025-10-22	0.224
30_1_4_102	MW-20	Appendix IV	Arsenic	mg/L	20	0	0%	< 0.0001	0.532	↔	< 0.0001	0.754	↔	2023-08-06	0.065
30_1_4_103	MW-20	Appendix IV	Barium	mg/L	20	0	0%	-0.0094286	0.084	↔	< 0.0001	0.692	↔	2023-01-20	0.469
30_1_4_106	MW-20	Appendix IV	Cadmium	mg/L	20	19	95%	< 0.0001	0.226	↔	< 0.0001	0.970	↔	2025-04-01	0.188
30_1_4_109	MW-20	Appendix IV	Chromium, Total	mg/L	20	10	50%	< 0.0001	0.975	↔	< 0.0001	0.287	↔	2025-02-19	0.157
30_1_4_110	MW-20	Appendix IV	Cobalt	mg/L	20	0	0%	< 0.0001	0.026	↔	< 0.0001	0.088	↔	2024-10-13	0.422
30_1_4_113	MW-20	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	-0.0082857	0.000	↓	< 0.0001	0.735	↔	2023-01-07	0.764
30_1_4_115	MW-20	Appendix IV	Lead	mg/L	20	0	0%	< 0.0001	0.702	↔	< 0.0001	0.353	↔	2024-04-08	0.108
30_1_4_117	MW-20	Appendix IV	Mercury	ng/L	20	14	70%	< 0.0001	1.000	↔	-0.24346	0.000	↓	2024-06-06	0.833
30_1_4_118	MW-20	Appendix IV	Molybdenum	mg/L	20	0	0%	< 0.0001	0.124	↔	< 0.0001	0.043	↔	2024-10-16	0.412
30_1_4_121	MW-20	Appendix IV	Radium 226 and 228	pCi/L	19	10	53%	-0.018514	0.048	↔	< 0.0001	0.755	↔	2023-01-14	0.493
30_1_4_122	MW-20	Appendix IV	Selenium	mg/L	20	12	60%	< 0.0001	0.278	↔	< 0.0001	0.872	↔	2023-07-01	0.152
30_1_5_111	MW-20	Part 115	Copper	mg/L	20	2	10%	< 0.0001	0.615	↔	< 0.0001	0.375	↔	2025-02-25	0.215
30_1_5_114	MW-20	Part 115	Iron	mg/L	20	0	0%	-0.0021573	0.693	↔	-0.0074239	0.011	↔	2024-04-07	0.602
30_1_5_119	MW-20	Part 115	Nickel	mg/L	20	0	0%	< 0.0001	0.604	↔	< 0.0001	0.227	↔	2024-05-24	0.144
30_1_5_128	MW-20	Part 115	Vanadium	mg/L	20	20	100%	< 0.0001	1.000	↔	< 0.0001	0.000	↓	2024-11-11	0.858
30_1_5_129	MW-20	Part 115	Zinc	mg/L	20	0	0%	< 0.0001	0.341	↔	< 0.0001	0.178	↔	2023-11-06	0.160
38_1_3_107	MW-28	Appendix III	Calcium	mg/L	10	0	0%	0.10634	0.490	↔	-0.08788	0.360	↔	2025-02-27	0.214
38_1_3_108	MW-28	Appendix III	Chloride (as Cl)	mg/L	10	0	0%	0.7814	0.054	↔	-0.34179	0.011	↔	2025-01-16	0.779
38_1_3_120	MW-28	Appendix III	pH (field)	su	10	0	0%	< 0.0001	0.775	↔	-0.00043159	0.737	↔	2025-10-23	0.177
38_1_3_126	MW-28	Appendix III	Total Dissolved Solids	mg/L	10	0	0%	1.5897	0.195	↔	-0.82901	0.038	↔	2025-01-16	0.611
38_1_4_101	MW-28	Appendix IV	Antimony	mg/L	10	0	0%	< 0.0001	0.781	↔	< 0.0001	0.406	↔	2025-08-13	0.298
38_1_4_102	MW-28	Appendix IV	Arsenic	mg/L	10	0	0%	< 0.0001	0.883	↔	< 0.0001	0.023	↔	2026-03-28	0.813
38_1_4_103	MW-28	Appendix IV	Barium	mg/L	10	0	0%	0.00028451	0.743	↔	-0.00074672	0.437	↔	2025-07-20	0.144
38_1_4_106	MW-28	Appendix IV	Cadmium	mg/L	10	5	50%	< 0.0001	0.993	↔	< 0.0001	0.385	↔	2025-03-19	0.244
38_1_4_109	MW-28	Appendix IV	Chromium, Total	mg/L	10	0	0%	< 0.0001	0.224	↔	< 0.0001	0.204	↔	2025-08-13	0.417
38_1_4_110	MW-28	Appendix IV	Cobalt	mg/L	10	0	0%	< 0.0001	0.360	↔	< 0.0001	0.786	↔	2025-04-20	0.398

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Table 9: Trend Tests: Piecewise Linear-Linear *(continued)*

								Line 1			Line 2				
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Slope	p-Value	Trend	Slope	p-Value	Trend	Break 1	R-Squared
38_1_4_115	MW-28	Appendix IV	Lead	mg/L	10	0	0%	< 0.0001	0.574	↔	< 0.0001	0.000	↑	2025-12-26	0.966
38_1_4_117	MW-28	Appendix IV	Mercury	ng/L	10	3	30%	-0.45538	0.004	↓	0.03514	0.864	↔	2025-08-14	0.854
38_1_4_118	MW-28	Appendix IV	Molybdenum	mg/L	10	0	0%	< 0.0001	0.048	↔	< 0.0001	0.939	↔	2025-10-23	0.603
38_1_4_121	MW-28	Appendix IV	Radium 226 and 228	pCi/L	9	2	22%	0.00015466	0.656	↔	0.0028018	0.329	↔	2026-04-18	0.404
38_1_4_122	MW-28	Appendix IV	Selenium	mg/L	10	0	0%	< 0.0001	0.185	↔	< 0.0001	0.658	↔	2026-02-18	0.293
38_1_5_111	MW-28	Part 115	Copper	mg/L	10	1	10%	< 0.0001	0.816	↔	< 0.0001	0.247	↔	2025-08-13	0.414
38_1_5_119	MW-28	Part 115	Nickel	mg/L	10	0	0%	< 0.0001	0.444	↔	< 0.0001	0.777	↔	2025-02-27	0.151
38_1_5_128	MW-28	Part 115	Vanadium	mg/L	10	2	20%	< 0.0001	0.296	↔	< 0.0001	0.009	↑	2026-01-11	0.843
38_1_5_129	MW-28	Part 115	Zinc	mg/L	10	0	0%	0.00024733	0.097	↔	-0.00052747	0.615	↔	2026-02-18	0.416
40_1_3_105	MW-30	Appendix III	Boron	mg/L	20	0	0%	-0.00090939	0.297	↔	-0.00012635	0.836	↔	2024-04-07	0.201
40_1_3_107	MW-30	Appendix III	Calcium	mg/L	20	0	0%	0.056042	0.744	↔	-0.29731	0.643	↔	2025-04-20	0.042
40_1_3_108	MW-30	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	1.0107	0.000	↑	-2.1422	0.080	↔	2025-10-13	0.693
40_1_3_112	MW-30	Appendix III	Fluoride	mg/L	20	0	0%	-0.0001534	0.249	↔	0.00034812	0.810	↔	2025-10-21	0.088
40_1_3_120	MW-30	Appendix III	pH (field)	su	20	0	0%	0.0031928	0.163	↔	-0.00016152	0.149	↔	2023-03-13	0.239
40_1_3_126	MW-30	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	1.736	0.003	↑	-3.509	0.072	↔	2025-08-10	0.549
40_1_4_101	MW-30	Appendix IV	Antimony	mg/L	20	16	80%	< 0.0001	0.136	↔	< 0.0001	0.420	↔	2025-12-11	0.169
40_1_4_102	MW-30	Appendix IV	Arsenic	mg/L	20	2	10%	< 0.0001	0.008	↑	< 0.0001	0.193	↔	2025-10-20	0.435
40_1_4_103	MW-30	Appendix IV	Barium	mg/L	20	0	0%	-0.00045157	0.073	↔	< 0.0001	0.128	↔	2023-03-25	0.376
40_1_4_106	MW-30	Appendix IV	Cadmium	mg/L	20	19	95%	< 0.0001	0.445	↔	< 0.0001	0.528	↔	2023-05-21	0.111
40_1_4_109	MW-30	Appendix IV	Chromium, Total	mg/L	20	0	0%	< 0.0001	0.478	↔	< 0.0001	0.786	↔	2023-03-27	0.086
40_1_4_110	MW-30	Appendix IV	Cobalt	mg/L	20	0	0%	< 0.0001	0.215	↔	< 0.0001	0.207	↔	2025-02-24	0.184
40_1_4_113	MW-30	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	-0.0001534	0.249	↔	0.00034812	0.810	↔	2025-10-21	0.088
40_1_4_115	MW-30	Appendix IV	Lead	mg/L	20	18	90%	< 0.0001	0.985	↔	< 0.0001	0.476	↔	2023-11-23	0.072
40_1_4_116	MW-30	Appendix IV	Lithium	mg/L	20	0	0%	-0.00010141	0.486	↔	< 0.0001	0.445	↔	2023-11-27	0.068
40_1_4_117	MW-30	Appendix IV	Mercury	ng/L	20	18	90%	0.16488	0.170	↔	-0.33026	0.001	↓	2024-04-07	0.693
40_1_4_118	MW-30	Appendix IV	Molybdenum	mg/L	20	3	15%	< 0.0001	0.032	↔	< 0.0001	0.471	↔	2025-10-21	0.276
40_1_4_121	MW-30	Appendix IV	Radium 226 and 228	pCi/L	20	11	55%	0.00010192	0.388	↔	-0.0020982	0.373	↔	2026-03-31	0.112
40_1_4_122	MW-30	Appendix IV	Selenium	mg/L	20	7	35%	< 0.0001	0.602	↔	< 0.0001	0.451	↔	2023-06-26	0.057
40_1_4_125	MW-30	Appendix IV	Thallium	mg/L	20	20	100%	< 0.0001	0.261	↔	< 0.0001	0.056	↔	2023-03-05	0.313
40_1_5_111	MW-30	Part 115	Copper	mg/L	20	14	70%	< 0.0001	0.934	↔	< 0.0001	0.447	↔	2023-08-20	0.070
40_1_5_114	MW-30	Part 115	Iron	mg/L	20	0	0%	0.0049771	0.162	↔	-0.011457	0.378	↔	2025-04-20	0.163
40_1_5_119	MW-30	Part 115	Nickel	mg/L	20	3	15%	< 0.0001	0.169	↔	< 0.0001	0.186	↔	2025-02-24	0.215
40_1_5_123	MW-30	Part 115	Silver	mg/L	20	19	95%	< 0.0001	0.898	↔	< 0.0001	0.575	↔	2025-02-25	0.081
40_1_5_128	MW-30	Part 115	Vanadium	mg/L	20	16	80%	< 0.0001	0.917	↔	< 0.0001	0.447	↔	2023-09-04	0.065
40_1_5_129	MW-30	Part 115	Zinc	mg/L	20	10	50%	< 0.0001	0.925	↔	< 0.0001	0.198	↔	2023-07-06	0.169
41_1_3_105	MW-31	Appendix III	Boron	mg/L	20	0	0%	0.0010912	0.090	↔	0.0052908	0.032	↔	2025-04-20	0.749
41_1_3_107	MW-31	Appendix III	Calcium	mg/L	20	0	0%	-0.017273	0.774	↔	0.13539	0.172	↔	2025-01-21	0.205
41_1_3_108	MW-31	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	-0.019436	0.688	↔	0.04791	0.052	↔	2024-02-23	0.350
41_1_3_112	MW-31	Appendix III	Fluoride	mg/L	20	0	0%	0.0027177	0.252	↔	-0.0015637	0.000	↓	2023-05-22	0.790
41_1_3_120	MW-31	Appendix III	pH (field)	su	20	0	0%	< 0.0001	0.759	↔	-0.0013547	0.085	↔	2025-10-20	0.317
41_1_3_124	MW-31	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	-0.20938	0.256	↔	0.3934	0.186	↔	2024-10-26	0.205
41_1_3_126	MW-31	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	-0.13893	0.594	↔	0.66644	0.025	↔	2024-10-14	0.412

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Table 9: Trend Tests: Piecewise Linear-Linear *(continued)*

								Line 1			Line 2				
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Slope	p-Value	Trend	Slope	p-Value	Trend	Break 1	R-Squared
41_1_4_102	MW-31	Appendix IV	Arsenic	mg/L	20	0	0%	< 0.0001	0.502	↔	< 0.0001	0.000	↑	2025-07-11	0.889
41_1_4_103	MW-31	Appendix IV	Barium	mg/L	20	0	0%	< 0.0001	0.841	↔	0.00014711	0.033	↔	2024-02-11	0.366
41_1_4_104	MW-31	Appendix IV	Beryllium	mg/L	20	17	85%	< 0.0001	0.361	↔	< 0.0001	0.007	↑	2025-10-16	0.679
41_1_4_109	MW-31	Appendix IV	Chromium, Total	mg/L	20	0	0%	< 0.0001	0.281	↔	< 0.0001	0.003	↑	2025-08-11	0.719
41_1_4_110	MW-31	Appendix IV	Cobalt	mg/L	20	3	15%	< 0.0001	0.955	↔	< 0.0001	0.138	↔	2025-04-19	0.291
41_1_4_113	MW-31	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	0.0027177	0.252	↔	-0.0015637	0.000	↓	2023-05-22	0.790
41_1_4_115	MW-31	Appendix IV	Lead	mg/L	20	14	70%	< 0.0001	0.215	↔	< 0.0001	0.049	↔	2023-12-05	0.283
41_1_4_116	MW-31	Appendix IV	Lithium	mg/L	20	0	0%	< 0.0001	0.080	↔	0.00012345	0.000	↑	2025-06-03	0.818
41_1_4_117	MW-31	Appendix IV	Mercury	ng/L	20	14	70%	< 0.0001	1.000	↔	-0.25052	0.000	↓	2024-06-05	0.835
41_1_4_118	MW-31	Appendix IV	Molybdenum	mg/L	20	0	0%	< 0.0001	0.714	↔	< 0.0001	0.005	↑	2024-11-19	0.669
41_1_4_121	MW-31	Appendix IV	Radium 226 and 228	pCi/L	20	8	40%	< 0.0001	0.841	↔	-0.0015	0.599	↔	2026-02-17	0.071
41_1_4_122	MW-31	Appendix IV	Selenium	mg/L	20	6	30%	< 0.0001	0.999	↔	< 0.0001	0.302	↔	2025-01-11	0.164
41_1_5_111	MW-31	Part 115	Copper	mg/L	20	10	50%	< 0.0001	0.792	↔	< 0.0001	0.065	↔	2025-02-15	0.415
41_1_5_114	MW-31	Part 115	Iron	mg/L	20	0	0%	-0.0032668	0.122	↔	0.0049398	0.033	↔	2024-08-17	0.373
41_1_5_119	MW-31	Part 115	Nickel	mg/L	20	10	50%	< 0.0001	0.992	↔	0.00039826	0.089	↔	2024-09-24	0.360
41_1_5_128	MW-31	Part 115	Vanadium	mg/L	20	12	60%	< 0.0001	0.380	↔	< 0.0001	0.524	↔	2024-10-15	0.072
41_1_5_129	MW-31	Part 115	Zinc	mg/L	20	9	45%	< 0.0001	0.602	↔	< 0.0001	0.018	↔	2025-08-12	0.686
42_1_3_105	MW-32	Appendix III	Boron	mg/L	20	0	0%	0.001332	0.060	↔	-0.0028345	0.702	↔	2025-10-23	0.219
42_1_3_107	MW-32	Appendix III	Calcium	mg/L	20	0	0%	-0.22949	0.056	↔	0.040184	0.100	↔	2023-08-12	0.324
42_1_3_108	MW-32	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	0.0061218	0.172	↔	-0.070211	0.157	↔	2025-10-21	0.417
42_1_3_112	MW-32	Appendix III	Fluoride	mg/L	20	0	0%	0.0001756	0.521	↔	-0.00069336	0.026	↔	2024-09-22	0.420
42_1_3_120	MW-32	Appendix III	pH (field)	su	20	0	0%	< 0.0001	0.871	↔	-0.0024409	0.001	↓	2026-02-15	0.676
42_1_3_124	MW-32	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	-0.14468	0.206	↔	0.31228	0.095	↔	2024-12-18	0.256
42_1_3_126	MW-32	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	-0.23004	0.104	↔	0.31015	0.043	↔	2024-10-10	0.327
42_1_4_101	MW-32	Appendix IV	Antimony	mg/L	20	16	80%	< 0.0001	0.258	↔	< 0.0001	0.102	↔	2024-02-11	0.239
42_1_4_102	MW-32	Appendix IV	Arsenic	mg/L	20	0	0%	< 0.0001	0.322	↔	< 0.0001	0.070	↔	2024-02-11	0.234
42_1_4_103	MW-32	Appendix IV	Barium	mg/L	20	0	0%	0.00068318	0.007	↑	-0.0036472	0.012	↔	2025-10-20	0.530
42_1_4_109	MW-32	Appendix IV	Chromium, Total	mg/L	20	0	0%	< 0.0001	0.462	↔	< 0.0001	0.145	↔	2024-02-11	0.155
42_1_4_110	MW-32	Appendix IV	Cobalt	mg/L	20	0	0%	< 0.0001	0.928	↔	< 0.0001	0.297	↔	2025-07-12	0.186
42_1_4_113	MW-32	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	0.0001756	0.521	↔	-0.00069336	0.026	↔	2024-09-22	0.420
42_1_4_115	MW-32	Appendix IV	Lead	mg/L	20	15	75%	< 0.0001	0.835	↔	< 0.0001	0.325	↔	2025-08-10	0.110
42_1_4_116	MW-32	Appendix IV	Lithium	mg/L	20	0	0%	-0.00042857	0.534	↔	< 0.0001	0.381	↔	2023-02-10	0.075
42_1_4_117	MW-32	Appendix IV	Mercury	ng/L	20	15	75%	1.1299	0.148	↔	-0.9264	0.097	↔	2024-04-07	0.269
42_1_4_118	MW-32	Appendix IV	Molybdenum	mg/L	20	0	0%	< 0.0001	0.638	↔	< 0.0001	0.004	↓	2024-02-11	0.523
42_1_4_122	MW-32	Appendix IV	Selenium	mg/L	20	16	80%	< 0.0001	0.591	↔	< 0.0001	0.145	↔	2024-02-11	0.148
42_1_5_111	MW-32	Part 115	Copper	mg/L	20	12	60%	< 0.0001	0.191	↔	< 0.0001	0.166	↔	2024-02-12	0.199
42_1_5_114	MW-32	Part 115	Iron	mg/L	20	0	0%	-0.0099531	0.125	↔	0.011747	0.016	↔	2024-07-16	0.386
42_1_5_128	MW-32	Part 115	Vanadium	mg/L	20	20	100%	< 0.0001	1.000	↔	< 0.0001	0.000	↓	2024-11-08	0.857
46_1_3_105	MW-36	Appendix III	Boron	mg/L	10	0	0%	0.0013	0.550	↔	-0.00012674	0.621	↔	2024-09-07	0.171
46_1_3_108	MW-36	Appendix III	Chloride (as Cl)	mg/L	10	0	0%	-0.0090826	0.316	↔	-0.049681	0.001	↓	2025-08-01	0.933
46_1_3_112	MW-36	Appendix III	Fluoride	mg/L	10	0	0%	0.0013353	0.461	↔	-0.00042722	0.077	↔	2024-10-15	0.472
46_1_3_120	MW-36	Appendix III	pH (field)	su	10	0	0%	-0.0080878	0.230	↔	-0.00043496	0.808	↔	2024-10-16	0.432

(Table continues on next page)

Table 9: Trend Tests: Piecewise Linear-Linear *(continued)*

								Line 1			Line 2				
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Slope	p-Value	Trend	Slope	p-Value	Trend	Break 1	R-Squared
46_1_3_124	MW-36	Appendix III	Sulfate (as SO4)	mg/L	10	0	0%	-0.0082847	0.705	↔	0.023195	0.342	↔	2025-06-30	0.226
46_1_3_126	MW-36	Appendix III	Total Dissolved Solids	mg/L	10	0	0%	0.19285	0.113	↔	-0.095415	0.651	↔	2025-08-12	0.432
46_1_4_101	MW-36	Appendix IV	Antimony	mg/L	10	0	0%	< 0.0001	0.665	↔	< 0.0001	0.350	↔	2025-02-25	0.183
46_1_4_102	MW-36	Appendix IV	Arsenic	mg/L	10	0	0%	< 0.0001	0.019	↔	< 0.0001	0.732	↔	2024-12-28	0.869
46_1_4_103	MW-36	Appendix IV	Barium	mg/L	10	0	0%	0.0001699	0.129	↔	-0.00012764	0.519	↔	2025-08-12	0.391
46_1_4_106	MW-36	Appendix IV	Cadmium	mg/L	10	2	20%	< 0.0001	0.168	↔	< 0.0001	0.943	↔	2025-12-20	0.458
46_1_4_110	MW-36	Appendix IV	Cobalt	mg/L	10	0	0%	< 0.0001	0.604	↔	< 0.0001	0.199	↔	2024-09-19	0.551
46_1_4_113	MW-36	Appendix IV	Fluoride (App IV)	mg/L	10	0	0%	0.0013353	0.461	↔	-0.00042722	0.077	↔	2024-10-15	0.472
46_1_4_115	MW-36	Appendix IV	Lead	mg/L	10	0	0%	< 0.0001	0.147	↔	< 0.0001	0.970	↔	2026-01-10	0.491
46_1_4_116	MW-36	Appendix IV	Lithium	mg/L	10	0	0%	< 0.0001	0.529	↔	< 0.0001	0.814	↔	2024-08-05	0.210
46_1_4_117	MW-36	Appendix IV	Mercury	ng/L	10	4	40%	-0.33649	0.021	↔	0.0011051	0.996	↔	2025-10-13	0.791
46_1_4_121	MW-36	Appendix IV	Radium 226 and 228	pCi/L	9	7	78%	-0.00014739	0.673	↔	-0.0034196	0.242	↔	2026-03-20	0.570
46_1_5_119	MW-36	Part 115	Nickel	mg/L	10	0	0%	< 0.0001	0.159	↔	< 0.0001	0.101	↔	2024-10-14	0.856
46_1_5_123	MW-36	Part 115	Silver	mg/L	10	1	10%	< 0.0001	0.226	↔	< 0.0001	0.788	↔	2025-05-14	0.461
46_1_5_128	MW-36	Part 115	Vanadium	mg/L	10	0	0%	< 0.0001	0.685	↔	< 0.0001	0.202	↔	2025-02-25	0.271
46_1_5_129	MW-36	Part 115	Zinc	mg/L	10	0	0%	< 0.0001	0.601	↔	< 0.0001	0.339	↔	2025-08-08	0.192
47_1_3_105	MW-37	Appendix III	Boron	mg/L	10	0	0%	0.0009724	0.890	↔	-0.0056603	0.190	↔	2025-04-19	0.375
47_1_3_107	MW-37	Appendix III	Calcium	mg/L	10	0	0%	-0.12037	0.782	↔	0.0098052	0.847	↔	2024-10-14	0.072
47_1_3_108	MW-37	Appendix III	Chloride (as Cl)	mg/L	10	0	0%	0.07	0.502	↔	-0.04147	0.011	↔	2024-08-18	0.743
47_1_3_112	MW-37	Appendix III	Fluoride	mg/L	10	0	0%	< 0.0001	0.624	↔	-0.00051946	0.511	↔	2025-12-29	0.148
47_1_3_124	MW-37	Appendix III	Sulfate (as SO4)	mg/L	10	0	0%	0.015492	0.915	↔	-0.37614	0.743	↔	2026-02-18	0.070
47_1_3_126	MW-37	Appendix III	Total Dissolved Solids	mg/L	10	0	0%	-0.51217	0.727	↔	-0.12233	0.482	↔	2024-10-13	0.314
47_1_4_101	MW-37	Appendix IV	Antimony	mg/L	10	1	10%	< 0.0001	0.303	↔	< 0.0001	0.329	↔	2025-05-10	0.296
47_1_4_102	MW-37	Appendix IV	Arsenic	mg/L	10	0	0%	< 0.0001	0.025	↔	< 0.0001	0.293	↔	2025-10-21	0.629
47_1_4_103	MW-37	Appendix IV	Barium	mg/L	10	0	0%	< 0.0001	0.072	↔	-0.00018991	0.217	↔	2026-01-04	0.527
47_1_4_104	MW-37	Appendix IV	Beryllium	mg/L	10	9	90%	< 0.0001	0.967	↔	< 0.0001	0.068	↔	2026-01-11	0.703
47_1_4_109	MW-37	Appendix IV	Chromium, Total	mg/L	10	0	0%	< 0.0001	0.346	↔	< 0.0001	0.743	↔	2025-10-21	0.163
47_1_4_113	MW-37	Appendix IV	Fluoride (App IV)	mg/L	10	0	0%	< 0.0001	0.624	↔	-0.00051946	0.511	↔	2025-12-29	0.148
47_1_4_115	MW-37	Appendix IV	Lead	mg/L	10	2	20%	< 0.0001	0.189	↔	< 0.0001	0.583	↔	2025-10-21	0.299
47_1_4_116	MW-37	Appendix IV	Lithium	mg/L	10	0	0%	< 0.0001	0.200	↔	< 0.0001	0.140	↔	2025-05-06	0.501
47_1_4_117	MW-37	Appendix IV	Mercury	ng/L	10	4	40%	-0.36581	0.014	↔	-0.01497	0.944	↔	2025-09-10	0.810
47_1_4_121	MW-37	Appendix IV	Radium 226 and 228	pCi/L	10	5	50%	0.00195	0.440	↔	-0.00033915	0.264	↔	2024-08-30	0.284
47_1_4_122	MW-37	Appendix IV	Selenium	mg/L	10	0	0%	< 0.0001	0.537	↔	< 0.0001	0.343	↔	2025-01-24	0.226
47_1_5_111	MW-37	Part 115	Copper	mg/L	10	0	0%	< 0.0001	0.458	↔	< 0.0001	0.657	↔	2025-10-21	0.149
47_1_5_114	MW-37	Part 115	Iron	mg/L	10	1	10%	0.0055107	0.216	↔	-0.0040335	0.370	↔	2025-07-01	0.358
47_1_5_119	MW-37	Part 115	Nickel	mg/L	10	0	0%	< 0.0001	0.374	↔	< 0.0001	0.389	↔	2025-02-02	0.625
47_1_5_123	MW-37	Part 115	Silver	mg/L	10	9	90%	< 0.0001	0.614	↔	< 0.0001	1.000	↔	2026-01-21	0.091
47_1_5_128	MW-37	Part 115	Vanadium	mg/L	10	5	50%	< 0.0001	0.891	↔	< 0.0001	0.058	↔	2025-02-02	0.570
47_1_5_129	MW-37	Part 115	Zinc	mg/L	10	0	0%	< 0.0001	0.116	↔	< 0.0001	0.003	↑	2025-06-12	0.880
48_2_3_112	MW-38	Appendix III	Fluoride	mg/L	10	0	0%	0.0024669	0.654	↔	-0.00088964	0.201	↔	2024-10-15	0.278
48_2_3_120	MW-38	Appendix III	pH (field)	su	10	0	0%	-0.0021076	0.578	↔	0.0089693	0.059	↔	2025-08-11	0.558
48_2_3_126	MW-38	Appendix III	Total Dissolved Solids	mg/L	10	0	0%	-1.3839	0.528	↔	0.87448	0.513	↔	2025-03-25	0.136

(Table continues on next page)

Table 9: Trend Tests: Piecewise Linear-Linear *(continued)*

								Line 1			Line 2				
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Slope	p-Value	Trend	Slope	p-Value	Trend	Break 1	R-Squared
48_2_4_101	MW-38	Appendix IV	Antimony	mg/L	10	2	20%	< 0.0001	0.225	↔	< 0.0001	0.024	↔	2026-04-18	0.696
48_2_4_103	MW-38	Appendix IV	Barium	mg/L	10	0	0%	-0.00029436	0.707	↔	0.00039179	0.422	↔	2025-04-19	0.138
48_2_4_104	MW-38	Appendix IV	Beryllium	mg/L	10	7	70%	< 0.0001	0.971	↔	< 0.0001	0.353	↔	2025-08-04	0.242
48_2_4_106	MW-38	Appendix IV	Cadmium	mg/L	10	4	40%	< 0.0001	0.518	↔	< 0.0001	0.155	↔	2026-01-10	0.475
48_2_4_110	MW-38	Appendix IV	Cobalt	mg/L	10	0	0%	< 0.0001	0.871	↔	< 0.0001	0.330	↔	2025-08-11	0.224
48_2_4_113	MW-38	Appendix IV	Fluoride (App IV)	mg/L	10	0	0%	0.0024669	0.654	↔	-0.00088964	0.201	↔	2024-10-15	0.278
48_2_4_115	MW-38	Appendix IV	Lead	mg/L	10	1	10%	< 0.0001	0.195	↔	0.00065089	0.120	↔	2026-04-16	0.488
48_2_4_116	MW-38	Appendix IV	Lithium	mg/L	10	0	0%	< 0.0001	0.725	↔	< 0.0001	0.552	↔	2025-04-19	0.082
48_2_4_117	MW-38	Appendix IV	Mercury	ng/L	10	4	40%	-0.31798	0.024	↔	-0.017096	0.936	↔	2025-08-28	0.756
48_2_4_121	MW-38	Appendix IV	Radium 226 and 228	pCi/L	9	5	56%	0.00056875	0.693	↔	-0.0078457	0.211	↔	2026-02-14	0.376
48_2_4_122	MW-38	Appendix IV	Selenium	mg/L	10	0	0%	< 0.0001	0.710	↔	< 0.0001	0.651	↔	2025-10-21	0.144
48_2_4_125	MW-38	Appendix IV	Thallium	mg/L	10	10	100%	< 0.0001	0.280	↔	< 0.0001	0.777	↔	2025-12-14	0.238
48_2_5_111	MW-38	Part 115	Copper	mg/L	10	1	10%	< 0.0001	0.414	↔	0.00010338	0.229	↔	2025-11-14	0.516
48_2_5_114	MW-38	Part 115	Iron	mg/L	10	0	0%	0.0017721	0.456	↔	-0.0037513	0.690	↔	2025-10-23	0.133
48_2_5_119	MW-38	Part 115	Nickel	mg/L	10	0	0%	< 0.0001	0.637	↔	< 0.0001	0.496	↔	2025-10-21	0.288
48_2_5_123	MW-38	Part 115	Silver	mg/L	10	6	60%	< 0.0001	0.522	↔	< 0.0001	0.318	↔	2025-11-22	0.396
48_2_5_129	MW-38	Part 115	Zinc	mg/L	10	1	10%	< 0.0001	0.594	↔	0.00010491	0.105	↔	2025-10-20	0.497

Table 10: Trend Tests: Piecewise Linear-Linear-Linear

								Line 1			Line 2			Line 3					
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Slope	p-Value	Trend	Slope	p-Value	Trend	Slope	p-Value	Trend	Break 1	Break 2	R-Squared
11_2_3_107	MW-01R	Appendix III	Calcium	mg/L	20	0	0%	0.07359	0.746	↔	-0.17371	0.450	↔	0.34274	0.440	↔	2024-02-21	2025-08-13	0.116
11_2_3_120	MW-01R	Appendix III	pH (field)	su	20	0	0%	0.0052155	0.318	↔	< 0.0001	0.973	↔	-0.00093316	0.856	↔	2023-04-06	2026-02-19	0.230
11_2_3_124	MW-01R	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	-0.0056304	0.995	↔	-0.50759	0.548	↔	1.5379	0.351	↔	2024-03-21	2025-09-29	0.122
11_2_3_126	MW-01R	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	0.46169	0.410	↔	-0.028835	0.872	↔	1.4131	0.184	↔	2023-09-03	2026-02-18	0.307
11_2_4_102	MW-01R	Appendix IV	Arsenic	mg/L	20	0	0%	< 0.0001	0.345	↔	< 0.0001	0.246	↔	< 0.0001	0.568	↔	2024-02-12	2025-05-15	0.181
11_2_4_103	MW-01R	Appendix IV	Barium	mg/L	20	0	0%	0.00014801	0.285	↔	0.0013767	0.382	↔	-0.0014783	0.024	↔	2025-04-04	2025-10-21	0.516
11_2_4_106	MW-01R	Appendix IV	Cadmium	mg/L	20	13	65%	< 0.0001	0.678	↔	< 0.0001	0.638	↔	< 0.0001	0.050	↔	2023-05-23	2025-07-13	0.430
11_2_4_109	MW-01R	Appendix IV	Chromium, Total	mg/L	20	0	0%	< 0.0001	0.070	↔	< 0.0001	0.200	↔	< 0.0001	0.658	↔	2024-02-13	2025-05-13	0.314
11_2_4_110	MW-01R	Appendix IV	Cobalt	mg/L	20	0	0%	< 0.0001	0.956	↔	< 0.0001	0.932	↔	< 0.0001	0.202	↔	2023-06-27	2025-05-19	0.330
11_2_4_115	MW-01R	Appendix IV	Lead	mg/L	20	2	10%	< 0.0001	0.600	↔	< 0.0001	0.341	↔	< 0.0001	0.062	↔	2023-06-27	2025-05-23	0.444
11_2_4_116	MW-01R	Appendix IV	Lithium	mg/L	20	0	0%	0.001972	0.672	↔	0.00016761	0.872	↔	-0.0015224	0.827	↔	2023-07-17	2025-10-22	0.059
11_2_4_118	MW-01R	Appendix IV	Molybdenum	mg/L	20	2	10%	< 0.0001	0.363	↔	< 0.0001	0.335	↔	< 0.0001	0.277	↔	2024-02-13	2025-05-15	0.201
11_2_4_121	MW-01R	Appendix IV	Radium 226 and 228	pCi/L	20	13	65%	0.0061584	0.490	↔	-0.00092303	0.529	↔	0.00017358	0.387	↔	2023-02-07	2023-10-23	0.206
11_2_4_125	MW-01R	Appendix IV	Thallium	mg/L	20	20	100%	< 0.0001	0.072	↔	< 0.0001	0.884	↔	< 0.0001	0.118	↔	2023-05-23	2023-10-23	0.404
11_2_5_123	MW-01R	Part 115	Silver	mg/L	20	20	100%	< 0.0001	0.577	↔	< 0.0001	0.074	↔	< 0.0001	0.831	↔	2023-02-07	2025-08-30	0.309
11_2_5_128	MW-01R	Part 115	Vanadium	mg/L	20	2	10%	< 0.0001	0.035	↔	< 0.0001	0.627	↔	< 0.0001	0.268	↔	2023-06-28	2024-11-27	0.511
12_2_3_120	MW-02	Appendix III	pH (field)	su	20	0	0%	0.0031313	0.103	↔	-0.0006361	0.436	↔	< 0.0001	0.938	↔	2023-02-25	2023-10-23	0.376
12_2_3_126	MW-02	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	-0.014843	0.985	↔	1.1527	0.162	↔	-0.78763	0.210	↔	2023-12-10	2025-02-25	0.426

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Table 10: Trend Tests: Piecewise Linear-Linear-Linear *(continued)*

								Line 1			Line 2			Line 3					
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Slope	p-Value	Trend	Slope	p-Value	Trend	Slope	p-Value	Trend	Break 1	Break 2	R-Squared
12_2_4_101	MW-02	Appendix IV	Antimony	mg/L	20	3	15%	< 0.0001	0.401	↔	< 0.0001	0.588	↔	< 0.0001	0.406	↔	2025-08-30	2026-02-17	0.161
12_2_4_102	MW-02	Appendix IV	Arsenic	mg/L	20	0	0%	< 0.0001	0.734	↔	< 0.0001	0.185	↔	< 0.0001	0.705	↔	2023-02-01	2024-02-13	0.264
12_2_4_103	MW-02	Appendix IV	Barium	mg/L	20	0	0%	0.00013084	0.539	↔	-0.00077352	0.248	↔	0.00032818	0.087	↔	2024-02-13	2024-10-19	0.350
12_2_4_104	MW-02	Appendix IV	Beryllium	mg/L	20	2	10%	< 0.0001	0.745	↔	< 0.0001	0.341	↔	< 0.0001	0.679	↔	2023-01-15	2024-04-09	0.201
12_2_4_106	MW-02	Appendix IV	Cadmium	mg/L	20	14	70%	< 0.0001	0.162	↔	< 0.0001	0.192	↔	< 0.0001	0.659	↔	2023-10-04	2024-11-27	0.309
12_2_4_109	MW-02	Appendix IV	Chromium, Total	mg/L	20	0	0%	< 0.0001	0.335	↔	< 0.0001	0.346	↔	< 0.0001	0.142	↔	2024-02-13	2025-04-17	0.245
12_2_4_110	MW-02	Appendix IV	Cobalt	mg/L	20	0	0%	< 0.0001	0.480	↔	< 0.0001	0.215	↔	< 0.0001	0.307	↔	2024-02-13	2025-05-11	0.254
12_2_4_118	MW-02	Appendix IV	Molybdenum	mg/L	20	0	0%	< 0.0001	0.432	↔	< 0.0001	0.052	↔	-0.00010745	0.113	↔	2024-08-27	2026-02-17	0.485
12_2_4_121	MW-02	Appendix IV	Radium 226 and 228	pCi/L	19	6	32%	-0.0048903	0.056	↔	0.0012473	0.221	↔	-0.0050258	0.580	↔	2023-11-26	2026-02-17	0.418
12_2_4_122	MW-02	Appendix IV	Selenium	mg/L	20	0	0%	< 0.0001	0.082	↔	< 0.0001	0.974	↔	< 0.0001	0.223	↔	2025-02-25	2026-01-20	0.363
12_2_4_125	MW-02	Appendix IV	Thallium	mg/L	20	19	95%	< 0.0001	0.676	↔	< 0.0001	0.800	↔	< 0.0001	0.237	↔	2023-02-02	2025-02-06	0.211
12_2_5_111	MW-02	Part 115	Copper	mg/L	20	0	0%	< 0.0001	0.485	↔	< 0.0001	0.665	↔	< 0.0001	0.349	↔	2024-11-09	2026-02-21	0.247
12_2_5_114	MW-02	Part 115	Iron	mg/L	20	0	0%	0.045266	0.224	↔	-0.085714	0.600	↔	0.0013041	0.688	↔	2023-04-30	2023-07-18	0.214
12_2_5_119	MW-02	Part 115	Nickel	mg/L	20	0	0%	< 0.0001	0.447	↔	< 0.0001	0.014	↔	-0.00024181	0.189	↔	2024-02-09	2026-02-17	0.465
12_2_5_123	MW-02	Part 115	Silver	mg/L	20	20	100%	< 0.0001	0.404	↔	< 0.0001	0.047	↔	< 0.0001	0.750	↔	2023-02-07	2024-04-14	0.448
12_2_5_128	MW-02	Part 115	Vanadium	mg/L	20	1	5%	< 0.0001	0.590	↔	< 0.0001	0.226	↔	< 0.0001	0.338	↔	2023-01-11	2025-04-19	0.259
13_2_3_105	MW-03	Appendix III	Boron	mg/L	20	0	0%	0.00073001	0.615	↔	-0.00019351	0.776	↔	-0.0018263	0.129	↔	2023-10-23	2025-07-31	0.360
13_2_3_108	MW-03	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	-0.80846	0.024	↔	-0.10176	0.200	↔	-0.040005	0.269	↔	2023-04-11	2024-05-22	0.847
13_2_3_112	MW-03	Appendix III	Fluoride	mg/L	20	0	0%	-0.0032765	0.129	↔	0.00027721	0.229	↔	< 0.0001	0.976	↔	2023-04-30	2025-11-05	0.311
13_2_3_124	MW-03	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	3.7216	0.015	↔	-0.88734	0.000	↓	-0.078585	0.728	↔	2023-04-17	2024-11-16	0.832
13_2_3_126	MW-03	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	2.2318	0.084	↔	-1.0952	0.001	↓	-0.15603	0.585	↔	2023-05-04	2024-11-12	0.830
13_2_4_101	MW-03	Appendix IV	Antimony	mg/L	20	14	70%	< 0.0001	0.097	↔	< 0.0001	0.106	↔	< 0.0001	0.935	↔	2023-05-10	2024-08-31	0.476
13_2_4_102	MW-03	Appendix IV	Arsenic	mg/L	20	0	0%	< 0.0001	0.145	↔	< 0.0001	0.286	↔	< 0.0001	0.083	↔	2023-05-27	2023-10-31	0.338
13_2_4_104	MW-03	Appendix IV	Beryllium	mg/L	20	13	65%	< 0.0001	0.663	↔	< 0.0001	0.630	↔	< 0.0001	0.448	↔	2024-04-07	2025-03-16	0.099
13_2_4_106	MW-03	Appendix IV	Cadmium	mg/L	20	19	95%	< 0.0001	0.269	↔	< 0.0001	0.392	↔	< 0.0001	0.822	↔	2023-05-22	2024-08-25	0.251
13_2_4_109	MW-03	Appendix IV	Chromium, Total	mg/L	20	0	0%	< 0.0001	0.277	↔	< 0.0001	0.938	↔	< 0.0001	0.440	↔	2023-10-24	2025-08-11	0.356
13_2_4_113	MW-03	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	-0.0032765	0.129	↔	0.00027721	0.229	↔	< 0.0001	0.976	↔	2023-04-30	2025-11-05	0.311
13_2_4_115	MW-03	Appendix IV	Lead	mg/L	20	19	95%	< 0.0001	0.331	↔	< 0.0001	0.002	↓	< 0.0001	0.648	↔	2023-02-06	2026-01-20	0.629
13_2_4_116	MW-03	Appendix IV	Lithium	mg/L	20	0	0%	< 0.0001	0.385	↔	< 0.0001	0.327	↔	< 0.0001	0.590	↔	2023-04-17	2024-04-06	0.634
13_2_4_117	MW-03	Appendix IV	Mercury	ng/L	20	15	75%	0.0077444	0.776	↔	-2.9487	0.000	↓	< 0.0001	0.999	↔	2025-02-22	2025-04-21	0.951
13_2_4_118	MW-03	Appendix IV	Molybdenum	mg/L	20	14	70%	< 0.0001	0.686	↔	< 0.0001	0.155	↔	< 0.0001	0.402	↔	2023-02-06	2025-02-10	0.257
13_2_4_121	MW-03	Appendix IV	Radium 226 and 228	pCi/L	19	3	16%	-0.001075	0.006	↓	0.0070714	0.276	↔	-0.002882	0.260	↔	2025-06-15	2025-11-18	0.507
13_2_4_122	MW-03	Appendix IV	Selenium	mg/L	20	3	15%	< 0.0001	0.753	↔	< 0.0001	0.754	↔	< 0.0001	0.823	↔	2024-02-14	2025-07-07	0.071
13_2_4_125	MW-03	Appendix IV	Thallium	mg/L	20	19	95%	< 0.0001	0.060	↔	< 0.0001	0.010	↓	< 0.0001	0.774	↔	2023-02-25	2025-06-19	0.659
13_2_5_111	MW-03	Part 115	Copper	mg/L	20	9	45%	< 0.0001	0.151	↔	< 0.0001	0.704	↔	< 0.0001	0.476	↔	2024-10-15	2025-04-27	0.245
13_2_5_119	MW-03	Part 115	Nickel	mg/L	20	1	5%	< 0.0001	0.149	↔	< 0.0001	0.992	↔	< 0.0001	0.980	↔	2023-04-23	2024-08-30	0.320
13_2_5_123	MW-03	Part 115	Silver	mg/L	20	20	100%	< 0.0001	0.543	↔	< 0.0001	0.086	↔	< 0.0001	0.872	↔	2023-02-06	2025-05-10	0.314
13_2_5_128	MW-03	Part 115	Vanadium	mg/L	20	9	45%	< 0.0001	0.542	↔	< 0.0001	0.342	↔	< 0.0001	0.445	↔	2023-08-06	2024-06-09	0.209
14_2_3_108	MW-04	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	0.32514	0.606	↔	-0.41662	0.146	↔	-0.12807	0.000	↓	2023-02-12	2023-09-23	0.888
14_2_3_120	MW-04	Appendix III	pH (field)	su	20	0	0%	0.00083193	0.572	↔	-0.00035293	0.022	↔	< 0.0001	0.978	↔	2023-05-22	2026-03-07	0.440
14_2_3_124	MW-04	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	2.8998	0.274	↔	0.21219	0.731	↔	-0.2198	0.442	↔	2023-04-18	2024-06-20	0.364
14_2_4_101	MW-04	Appendix IV	Antimony	mg/L	20	14	70%	< 0.0001	0.444	↔	< 0.0001	0.455	↔	< 0.0001	0.697	↔	2025-02-15	2023-02-26	0.153

(Table continues on next page)

Table 10: Trend Tests: Piecewise Linear-Linear-Linear *(continued)*

								Line 1			Line 2			Line 3					
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Slope	p-Value	Trend	Slope	p-Value	Trend	Slope	p-Value	Trend	Break 1	Break 2	R-Squared
14_2_4_103	MW-04	Appendix IV	Barium	mg/L	20	0	0%	-0.00086329	0.428	↔	< 0.0001	0.763	↔	< 0.0001	0.887	↔	2023-04-18	2024-08-24	0.255
14_2_4_106	MW-04	Appendix IV	Cadmium	mg/L	20	20	100%	< 0.0001	0.313	↔	< 0.0001	0.229	↔	< 0.0001	0.911	↔	2023-05-22	2025-06-02	0.231
14_2_4_109	MW-04	Appendix IV	Chromium, Total	mg/L	20	0	0%	< 0.0001	0.676	↔	< 0.0001	0.822	↔	< 0.0001	0.099	↔	2023-05-22	2024-08-03	0.424
14_2_4_110	MW-04	Appendix IV	Cobalt	mg/L	20	0	0%	< 0.0001	0.124	↔	< 0.0001	0.016	↔	< 0.0001	0.058	↔	2025-01-20	2025-11-25	0.577
14_2_4_115	MW-04	Appendix IV	Lead	mg/L	20	16	80%	< 0.0001	0.139	↔	< 0.0001	0.439	↔	< 0.0001	0.953	↔	2023-02-09	2023-10-20	0.344
14_2_4_121	MW-04	Appendix IV	Radium 226 and 228	pCi/L	20	7	35%	-0.0011373	0.002	↓	0.0031585	0.119	↔	-0.0019393	0.091	↔	2025-02-05	2025-09-23	0.656
14_2_4_122	MW-04	Appendix IV	Selenium	mg/L	20	5	25%	< 0.0001	0.853	↔	< 0.0001	0.328	↔	< 0.0001	0.061	↔	2024-03-12	2025-04-20	0.315
14_2_4_125	MW-04	Appendix IV	Thallium	mg/L	20	20	100%	< 0.0001	0.320	↔	< 0.0001	0.374	↔	< 0.0001	0.762	↔	2023-04-19	2025-10-27	0.223
14_2_5_111	MW-04	Part 115	Copper	mg/L	20	14	70%	< 0.0001	0.895	↔	< 0.0001	0.045	↔	< 0.0001	0.160	↔	2024-06-26	2025-11-27	0.515
14_2_5_114	MW-04	Part 115	Iron	mg/L	20	0	0%	0.0012656	0.610	↔	-0.01941	0.342	↔	0.0086122	0.005	↑	2024-06-16	2025-02-25	0.659
14_2_5_123	MW-04	Part 115	Silver	mg/L	20	20	100%	< 0.0001	0.543	↔	< 0.0001	0.086	↔	< 0.0001	0.877	↔	2023-02-06	2025-05-05	0.314
14_2_5_128	MW-04	Part 115	Vanadium	mg/L	20	10	50%	< 0.0001	1.000	↔	< 0.0001	0.016	↔	< 0.0001	0.000	↓	2024-02-13	2024-05-15	0.857
14_2_5_129	MW-04	Part 115	Zinc	mg/L	20	10	50%	< 0.0001	0.825	↔	< 0.0001	0.004	↑	< 0.0001	0.402	↔	2025-09-02	2026-03-03	0.879
16_1_3_108	MW-06	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	-0.23544	0.000	↓	0.073547	0.086	↔	-0.17357	0.295	↔	2024-02-19	2025-10-23	0.788
16_1_3_120	MW-06	Appendix III	pH (field)	su	20	0	0%	-0.010739	0.003	↓	0.0070097	0.264	↔	0.00012307	0.244	↔	2023-02-06	2023-04-30	0.672
16_1_3_124	MW-06	Appendix III	Sulfate (as SO4)	mg/L	20	2	10%	-0.038656	0.472	↔	0.015566	0.564	↔	0.45111	0.003	↑	2023-11-09	2026-01-17	0.764
16_1_3_126	MW-06	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	-0.37491	0.122	↔	0.11718	0.520	↔	-0.26168	0.292	↔	2023-12-13	2025-06-10	0.415
16_1_4_101	MW-06	Appendix IV	Antimony	mg/L	20	17	85%	< 0.0001	0.226	↔	< 0.0001	0.328	↔	< 0.0001	0.686	↔	2023-04-19	2025-01-16	0.215
16_1_4_102	MW-06	Appendix IV	Arsenic	mg/L	20	0	0%	< 0.0001	0.316	↔	< 0.0001	0.229	↔	< 0.0001	0.188	↔	2023-04-06	2023-08-18	0.264
16_1_4_103	MW-06	Appendix IV	Barium	mg/L	20	0	0%	-0.0015572	0.447	↔	0.00012261	0.335	↔	-0.005083	0.021	↔	2023-04-17	2026-04-13	0.510
16_1_4_106	MW-06	Appendix IV	Cadmium	mg/L	20	20	100%	< 0.0001	0.316	↔	< 0.0001	0.226	↔	< 0.0001	0.912	↔	2023-05-22	2025-05-31	0.231
16_1_4_109	MW-06	Appendix IV	Chromium, Total	mg/L	20	0	0%	< 0.0001	0.403	↔	< 0.0001	0.180	↔	< 0.0001	0.838	↔	2023-02-24	2023-12-28	0.523
16_1_4_115	MW-06	Appendix IV	Lead	mg/L	20	10	50%	< 0.0001	0.265	↔	< 0.0001	0.823	↔	< 0.0001	0.731	↔	2023-10-24	2025-04-11	0.282
16_1_4_116	MW-06	Appendix IV	Lithium	mg/L	20	0	0%	-0.00018585	0.005	↓	< 0.0001	0.346	↔	-0.00010371	0.448	↔	2024-04-07	2025-09-09	0.557
16_1_4_118	MW-06	Appendix IV	Molybdenum	mg/L	20	10	50%	< 0.0001	0.690	↔	< 0.0001	0.925	↔	< 0.0001	0.295	↔	2024-01-28	2025-08-13	0.170
16_1_4_121	MW-06	Appendix IV	Radium 226 and 228	pCi/L	20	4	20%	-0.00047429	0.425	↔	0.0011246	0.516	↔	-0.0018736	0.296	↔	2024-08-18	2025-10-22	0.145
16_1_4_122	MW-06	Appendix IV	Selenium	mg/L	20	5	25%	< 0.0001	0.351	↔	< 0.0001	0.287	↔	< 0.0001	0.623	↔	2024-02-12	2025-05-01	0.168
16_1_4_125	MW-06	Appendix IV	Thallium	mg/L	20	19	95%	< 0.0001	0.551	↔	< 0.0001	0.112	↔	< 0.0001	0.731	↔	2023-02-05	2025-03-04	0.291
16_1_5_111	MW-06	Part 115	Copper	mg/L	20	13	65%	< 0.0001	0.861	↔	< 0.0001	0.950	↔	< 0.0001	0.186	↔	2024-07-18	2025-06-24	0.296
16_1_5_114	MW-06	Part 115	Iron	mg/L	20	0	0%	0.02113	0.066	↔	-0.073255	0.039	↔	-0.0056719	0.545	↔	2024-04-01	2024-11-05	0.740
17_1_3_107	MW-07	Appendix III	Calcium	mg/L	20	0	0%	0.012134	0.284	↔	0.058406	0.809	↔	-0.10074	0.305	↔	2025-04-25	2026-01-23	0.339
17_1_3_108	MW-07	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	-0.01025	0.004	↓	0.0053899	0.000	↑	-0.0028411	0.160	↔	2023-07-09	2025-07-16	0.872
17_1_3_120	MW-07	Appendix III	pH (field)	su	20	0	0%	-0.0022289	0.333	↔	0.00060793	0.131	↔	-0.00017892	0.181	↔	2023-03-12	2024-02-26	0.326
17_1_3_126	MW-07	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	-3.8364	0.074	↔	0.87835	0.182	↔	0.062595	0.104	↔	2023-01-05	2023-06-26	0.683
17_1_4_102	MW-07	Appendix IV	Arsenic	mg/L	20	0	0%	< 0.0001	0.363	↔	< 0.0001	0.197	↔	< 0.0001	0.005	↓	2023-04-16	2023-12-13	0.517
17_1_4_103	MW-07	Appendix IV	Barium	mg/L	20	0	0%	-0.00020186	0.626	↔	0.00011	0.002	↑	-0.00028185	0.279	↔	2023-04-08	2025-11-17	0.595
17_1_4_109	MW-07	Appendix IV	Chromium, Total	mg/L	20	0	0%	< 0.0001	0.094	↔	< 0.0001	0.256	↔	< 0.0001	0.573	↔	2024-07-17	2025-11-30	0.271
17_1_4_110	MW-07	Appendix IV	Cobalt	mg/L	20	0	0%	< 0.0001	0.719	↔	< 0.0001	0.368	↔	< 0.0001	0.105	↔	2024-07-04	2026-02-18	0.530
17_1_4_115	MW-07	Appendix IV	Lead	mg/L	20	20	100%	< 0.0001	0.000	↓	< 0.0001	1.000	↔	< 0.0001	1.000	↔	2023-07-30	2025-06-03	0.859
17_1_4_116	MW-07	Appendix IV	Lithium	mg/L	20	0	0%	< 0.0001	0.422	↔	< 0.0001	0.142	↔	< 0.0001	0.016	↔	2024-01-08	2023-05-18	0.402
17_1_4_118	MW-07	Appendix IV	Molybdenum	mg/L	20	20	100%	< 0.0001	0.000	↓	< 0.0001	1.000	↔	< 0.0001	0.554	↔	2023-07-30	2025-12-27	0.851
17_1_4_121	MW-07	Appendix IV	Radium 226 and 228	pCi/L	20	2	10%	-0.0005618	0.315	↔	0.0016396	0.471	↔	-0.001876	0.582	↔	2025-02-25	2025-11-13	0.162

(Table continues on next page)

Table 10: Trend Tests: Piecewise Linear-Linear-Linear *(continued)*

								Line 1			Line 2			Line 3					
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Slope	p-Value	Trend	Slope	p-Value	Trend	Slope	p-Value	Trend	Break 1	Break 2	R-Squared
17_1_4_122	MW-07	Appendix IV	Selenium	mg/L	20	9	45%	< 0.0001	0.005	↓	< 0.0001	0.651	↔	< 0.0001	0.263	↔	2023-07-08	2023-12-06	0.610
17_1_5_111	MW-07	Part 115	Copper	mg/L	20	15	75%	< 0.0001	0.987	↔	< 0.0001	0.286	↔	< 0.0001	0.157	↔	2024-04-03	2025-02-26	0.273
17_1_5_114	MW-07	Part 115	Iron	mg/L	20	0	0%	-0.085714	0.283	↔	0.058824	0.469	↔	0.0041583	0.004	↑	2023-01-17	2023-03-18	0.633
17_1_5_119	MW-07	Part 115	Nickel	mg/L	20	14	70%	< 0.0001	0.323	↔	< 0.0001	0.000	↓	< 0.0001	0.399	↔	2025-02-08	2025-10-17	0.947
17_1_5_128	MW-07	Part 115	Vanadium	mg/L	20	12	60%	< 0.0001	0.744	↔	< 0.0001	0.101	↔	< 0.0001	0.458	↔	2023-08-01	2024-10-15	0.404
18_1_3_105	MW-08	Appendix III	Boron	mg/L	20	0	0%	0.078784	0.215	↔	-0.0032385	0.177	↔	0.0023208	0.473	↔	2023-02-06	2025-02-24	0.470
18_1_3_112	MW-08	Appendix III	Fluoride	mg/L	20	0	0%	0.010171	0.025	↔	-0.00033966	0.308	↔	0.00096683	0.033	↔	2023-02-12	2025-02-25	0.606
18_1_3_124	MW-08	Appendix III	Sulfate (as SO4)	mg/L	20	5	25%	-0.025831	0.366	↔	0.20889	0.362	↔	-0.080997	0.016	↔	2024-06-29	2025-02-23	0.559
18_1_4_101	MW-08	Appendix IV	Antimony	mg/L	20	12	60%	< 0.0001	0.066	↔	< 0.0001	0.221	↔	< 0.0001	0.915	↔	2023-02-24	2023-07-30	0.447
18_1_4_102	MW-08	Appendix IV	Arsenic	mg/L	20	0	0%	0.00061694	0.024	↔	-0.00012218	0.249	↔	< 0.0001	0.001	↑	2023-02-16	2023-10-16	0.704
18_1_4_104	MW-08	Appendix IV	Beryllium	mg/L	20	19	95%	< 0.0001	0.967	↔	< 0.0001	0.340	↔	< 0.0001	0.323	↔	2023-03-26	2026-02-18	0.416
18_1_4_106	MW-08	Appendix IV	Cadmium	mg/L	20	19	95%	< 0.0001	0.004	↑	< 0.0001	0.456	↔	< 0.0001	0.270	↔	2023-07-19	2025-02-25	0.793
18_1_4_109	MW-08	Appendix IV	Chromium, Total	mg/L	20	0	0%	< 0.0001	0.263	↔	< 0.0001	0.000	↓	< 0.0001	0.682	↔	2023-01-24	2025-11-09	0.736
18_1_4_110	MW-08	Appendix IV	Cobalt	mg/L	20	0	0%	< 0.0001	0.348	↔	< 0.0001	0.401	↔	< 0.0001	0.064	↔	2024-06-21	2025-08-13	0.298
18_1_4_113	MW-08	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	0.010171	0.025	↔	-0.00033966	0.308	↔	0.00096683	0.033	↔	2023-02-12	2025-02-25	0.606
18_1_4_115	MW-08	Appendix IV	Lead	mg/L	20	12	60%	< 0.0001	0.512	↔	< 0.0001	0.217	↔	< 0.0001	0.299	↔	2023-07-30	2024-10-16	0.203
18_1_4_116	MW-08	Appendix IV	Lithium	mg/L	20	0	0%	0.0013429	0.033	↔	< 0.0001	0.001	↓	< 0.0001	0.539	↔	2023-01-19	2025-04-11	0.753
18_1_4_121	MW-08	Appendix IV	Radium 226 and 228	pCi/L	20	5	25%	-0.0010213	0.097	↔	0.00022447	0.811	↔	-0.004102	0.382	↔	2024-07-21	2026-04-13	0.386
18_1_4_122	MW-08	Appendix IV	Selenium	mg/L	20	7	35%	< 0.0001	0.403	↔	< 0.0001	0.511	↔	< 0.0001	0.099	↔	2023-05-18	2024-02-13	0.345
18_1_5_111	MW-08	Part 115	Copper	mg/L	20	6	30%	< 0.0001	0.025	↔	< 0.0001	0.563	↔	< 0.0001	0.320	↔	2025-02-25	2025-08-04	0.446
18_1_5_114	MW-08	Part 115	Iron	mg/L	20	0	0%	-0.080199	0.000	↓	0.11688	0.057	↔	-0.01612	0.000	↓	2023-07-26	2023-10-28	0.862
18_1_5_119	MW-08	Part 115	Nickel	mg/L	20	0	0%	< 0.0001	0.620	↔	< 0.0001	0.113	↔	< 0.0001	0.070	↔	2023-07-13	2024-10-15	0.510
18_1_5_128	MW-08	Part 115	Vanadium	mg/L	20	17	85%	< 0.0001	0.432	↔	< 0.0001	0.001	↓	< 0.0001	0.423	↔	2025-02-25	2026-04-10	0.799
18_1_5_129	MW-08	Part 115	Zinc	mg/L	20	3	15%	-0.00010005	0.444	↔	0.00027167	0.712	↔	< 0.0001	0.806	↔	2024-02-16	2024-09-26	0.217
19_2_3_105	MW-09	Appendix III	Boron	mg/L	20	0	0%	< 0.0001	0.981	↔	-0.00051134	0.777	↔	-0.009846	0.012	↔	2024-02-21	2025-10-19	0.654
19_2_3_108	MW-09	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	-0.030535	0.608	↔	0.053097	0.001	↑	0.21097	0.029	↔	2023-07-24	2026-01-27	0.878
19_2_3_112	MW-09	Appendix III	Fluoride	mg/L	20	0	0%	0.0026125	0.185	↔	-0.00048621	0.122	↔	-0.0037795	0.109	↔	2023-06-18	2026-02-16	0.561
19_2_3_120	MW-09	Appendix III	pH (field)	su	20	0	0%	0.0012313	0.074	↔	-0.0017233	0.593	↔	-0.00023724	0.014	↔	2023-05-23	2023-09-10	0.728
19_2_3_124	MW-09	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	4.2007	0.017	↔	-1.6719	0.606	↔	0.74742	0.000	↑	2023-04-23	2023-09-30	0.797
19_2_3_126	MW-09	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	4.7546	0.090	↔	0.50051	0.017	↔	2.2586	0.192	↔	2023-04-07	2025-10-20	0.850
19_2_4_101	MW-09	Appendix IV	Antimony	mg/L	20	12	60%	< 0.0001	0.195	↔	< 0.0001	0.244	↔	< 0.0001	0.660	↔	2023-04-18	2025-04-13	0.245
19_2_4_102	MW-09	Appendix IV	Arsenic	mg/L	20	0	0%	< 0.0001	0.621	↔	< 0.0001	0.617	↔	< 0.0001	0.743	↔	2024-05-31	2025-02-25	0.063
19_2_4_103	MW-09	Appendix IV	Barium	mg/L	20	0	0%	-0.0078852	0.062	↔	0.00060276	0.875	↔	-0.00023297	0.608	↔	2023-04-27	2023-11-01	0.466
19_2_4_106	MW-09	Appendix IV	Cadmium	mg/L	20	19	95%	< 0.0001	0.751	↔	< 0.0001	0.164	↔	< 0.0001	0.347	↔	2025-02-18	2026-02-17	0.252
19_2_4_109	MW-09	Appendix IV	Chromium, Total	mg/L	20	0	0%	< 0.0001	0.515	↔	< 0.0001	0.325	↔	< 0.0001	0.157	↔	2025-08-01	2026-03-28	0.343
19_2_4_110	MW-09	Appendix IV	Cobalt	mg/L	20	0	0%	< 0.0001	0.911	↔	< 0.0001	0.842	↔	< 0.0001	0.224	↔	2023-02-28	2025-07-20	0.215
19_2_4_113	MW-09	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	0.0026125	0.185	↔	-0.00048621	0.122	↔	-0.0037795	0.109	↔	2023-06-18	2026-02-16	0.561
19_2_4_115	MW-09	Appendix IV	Lead	mg/L	20	17	85%	< 0.0001	0.089	↔	< 0.0001	0.199	↔	< 0.0001	0.683	↔	2023-02-11	2023-06-29	0.357
19_2_4_116	MW-09	Appendix IV	Lithium	mg/L	20	0	0%	< 0.0001	0.457	↔	< 0.0001	0.623	↔	0.00063072	0.007	↑	2024-02-13	2025-10-19	0.690
19_2_4_118	MW-09	Appendix IV	Molybdenum	mg/L	20	0	0%	< 0.0001	0.032	↔	< 0.0001	0.026	↔	< 0.0001	0.033	↔	2023-11-26	2026-02-16	0.557
19_2_4_121	MW-09	Appendix IV	Radium 226 and 228	pCi/L	20	18	90%	0.0002496	0.735	↔	< 0.0001	0.892	↔	-0.0019153	0.387	↔	2023-08-23	2026-02-17	0.238
19_2_4_122	MW-09	Appendix IV	Selenium	mg/L	20	2	10%	< 0.0001	0.631	↔	< 0.0001	0.112	↔	< 0.0001	0.260	↔	2024-02-26	2026-02-16	0.410

(Table continues on next page)

Table 10: Trend Tests: Piecewise Linear-Linear-Linear *(continued)*

								Line 1			Line 2			Line 3					
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Slope	p-Value	Trend	Slope	p-Value	Trend	Slope	p-Value	Trend	Break 1	Break 2	R-Squared
19_2_4_125	MW-09	Appendix IV	Thallium	mg/L	20	20	100%	< 0.0001	0.685	↔	< 0.0001	0.879	↔	< 0.0001	0.561	↔	2023-02-05	2025-07-12	0.135
19_2_5_111	MW-09	Part 115	Copper	mg/L	20	11	55%	< 0.0001	0.419	↔	< 0.0001	0.763	↔	< 0.0001	0.052	↔	2024-07-17	2025-05-16	0.537
19_2_5_119	MW-09	Part 115	Nickel	mg/L	20	0	0%	< 0.0001	0.893	↔	0.00011872	0.450	↔	< 0.0001	0.163	↔	2024-03-12	2025-02-24	0.363
19_2_5_123	MW-09	Part 115	Silver	mg/L	20	20	100%	< 0.0001	0.189	↔	< 0.0001	0.169	↔	< 0.0001	0.843	↔	2023-04-18	2025-06-16	0.287
19_2_5_129	MW-09	Part 115	Zinc	mg/L	20	8	40%	< 0.0001	0.499	↔	0.00030154	0.484	↔	-0.00043403	0.018	↔	2025-05-29	2026-02-16	0.569
20_3_3_105	MW-10	Appendix III	Boron	mg/L	20	0	0%	-0.0079511	0.597	↔	0.028394	0.262	↔	-0.0047605	0.894	↔	2024-04-07	2025-08-28	0.387
20_3_3_112	MW-10	Appendix III	Fluoride	mg/L	20	0	0%	-0.044836	0.118	↔	0.054286	0.324	↔	-0.00045893	0.615	↔	2023-03-11	2023-05-09	0.356
20_3_3_120	MW-10	Appendix III	pH (field)	su	20	0	0%	0.0047026	0.128	↔	-0.0073252	0.233	↔	< 0.0001	0.869	↔	2023-05-22	2023-08-31	0.397
20_3_4_101	MW-10	Appendix IV	Antimony	mg/L	20	15	75%	< 0.0001	0.340	↔	< 0.0001	0.229	↔	< 0.0001	0.896	↔	2023-05-03	2025-03-03	0.228
20_3_4_103	MW-10	Appendix IV	Barium	mg/L	20	0	0%	-0.001546	0.338	↔	< 0.0001	0.705	↔	0.00056264	0.044	↔	2023-04-05	2024-10-16	0.611
20_3_4_106	MW-10	Appendix IV	Cadmium	mg/L	20	20	100%	< 0.0001	0.262	↔	< 0.0001	0.295	↔	< 0.0001	0.799	↔	2024-02-12	2024-08-18	0.264
20_3_4_110	MW-10	Appendix IV	Cobalt	mg/L	20	1	5%	< 0.0001	0.048	↔	< 0.0001	0.315	↔	< 0.0001	0.154	↔	2023-07-08	2023-12-14	0.470
20_3_4_113	MW-10	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	-0.044836	0.118	↔	0.054286	0.324	↔	-0.00045893	0.615	↔	2023-03-11	2023-05-09	0.356
20_3_4_115	MW-10	Appendix IV	Lead	mg/L	20	17	85%	< 0.0001	0.523	↔	< 0.0001	0.016	↔	< 0.0001	0.561	↔	2023-02-05	2026-01-08	0.420
20_3_4_117	MW-10	Appendix IV	Mercury	ng/L	20	17	85%	1.5416	0.056	↔	-2.0364	0.261	↔	0.24382	0.856	↔	2024-04-07	2025-05-11	0.362
20_3_4_122	MW-10	Appendix IV	Selenium	mg/L	20	1	5%	< 0.0001	0.063	↔	< 0.0001	0.373	↔	< 0.0001	0.339	↔	2024-02-13	2025-02-19	0.381
20_3_4_125	MW-10	Appendix IV	Thallium	mg/L	20	20	100%	< 0.0001	0.330	↔	< 0.0001	0.436	↔	< 0.0001	0.308	↔	2023-02-05	2023-08-07	0.397
20_3_5_114	MW-10	Part 115	Iron	mg/L	20	0	0%	-0.0036392	0.540	↔	0.0050887	0.589	↔	-0.0074284	0.061	↔	2023-10-23	2025-02-23	0.268
20_3_5_119	MW-10	Part 115	Nickel	mg/L	20	7	35%	< 0.0001	0.391	↔	< 0.0001	0.188	↔	< 0.0001	0.038	↔	2023-05-22	2024-09-29	0.378
20_3_5_123	MW-10	Part 115	Silver	mg/L	20	20	100%	< 0.0001	0.586	↔	< 0.0001	0.063	↔	< 0.0001	0.814	↔	2023-02-05	2026-03-30	0.288
20_3_5_129	MW-10	Part 115	Zinc	mg/L	20	7	35%	< 0.0001	0.751	↔	0.00018243	0.008	↑	-0.00021101	0.057	↔	2025-07-17	2026-03-02	0.715
21_2_3_107	MW-11	Appendix III	Calcium	mg/L	20	0	0%	1.2154	0.175	↔	-0.13075	0.027	↔	1.0033	0.254	↔	2023-03-14	2026-03-31	0.406
21_2_3_112	MW-11	Appendix III	Fluoride	mg/L	20	0	0%	-0.007159	0.154	↔	0.0040504	0.381	↔	0.00043358	0.218	↔	2023-04-16	2023-08-23	0.443
21_2_4_101	MW-11	Appendix IV	Antimony	mg/L	20	15	75%	< 0.0001	0.913	↔	< 0.0001	0.744	↔	< 0.0001	0.930	↔	2023-05-10	2023-09-26	0.133
21_2_4_102	MW-11	Appendix IV	Arsenic	mg/L	20	0	0%	< 0.0001	0.497	↔	< 0.0001	0.022	↔	< 0.0001	0.022	↔	2025-01-20	2026-04-04	0.600
21_2_4_106	MW-11	Appendix IV	Cadmium	mg/L	20	17	85%	< 0.0001	0.290	↔	< 0.0001	0.657	↔	< 0.0001	0.547	↔	2024-08-21	2025-10-22	0.128
21_2_4_109	MW-11	Appendix IV	Chromium, Total	mg/L	20	0	0%	< 0.0001	0.217	↔	< 0.0001	0.471	↔	< 0.0001	0.609	↔	2023-11-20	2025-10-22	0.181
21_2_4_113	MW-11	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	-0.007159	0.154	↔	0.0040504	0.381	↔	0.00043358	0.218	↔	2023-04-16	2023-08-23	0.443
21_2_4_115	MW-11	Appendix IV	Lead	mg/L	20	3	15%	-0.00021013	0.344	↔	< 0.0001	0.966	↔	< 0.0001	0.583	↔	2023-04-09	2024-01-15	0.213
21_2_4_116	MW-11	Appendix IV	Lithium	mg/L	20	0	0%	-0.0011621	0.029	↔	0.00070433	0.479	↔	< 0.0001	0.646	↔	2023-04-21	2023-08-08	0.368
21_2_4_117	MW-11	Appendix IV	Mercury	ng/L	20	13	65%	0.85737	0.049	↔	-1.2515	0.204	↔	0.079576	0.912	↔	2024-04-07	2025-05-11	0.436
21_2_4_118	MW-11	Appendix IV	Molybdenum	mg/L	20	2	10%	< 0.0001	0.571	↔	< 0.0001	0.227	↔	< 0.0001	0.063	↔	2025-06-22	2025-11-30	0.519
21_2_4_121	MW-11	Appendix IV	Radium 226 and 228	pCi/L	19	7	37%	-0.001093	0.062	↔	0.0014203	0.245	↔	-0.0024304	0.383	↔	2024-09-26	2025-11-18	0.395
21_2_4_122	MW-11	Appendix IV	Selenium	mg/L	20	3	15%	< 0.0001	0.033	↔	< 0.0001	0.255	↔	< 0.0001	0.266	↔	2024-03-08	2024-08-22	0.398
21_2_4_125	MW-11	Appendix IV	Thallium	mg/L	20	19	95%	< 0.0001	0.283	↔	< 0.0001	1.000	↔	< 0.0001	1.000	↔	2024-12-10	2026-04-03	0.194
21_2_5_119	MW-11	Part 115	Nickel	mg/L	20	0	0%	< 0.0001	0.304	↔	< 0.0001	0.224	↔	< 0.0001	0.049	↔	2025-01-06	2025-10-22	0.411
21_2_5_128	MW-11	Part 115	Vanadium	mg/L	20	13	65%	< 0.0001	0.066	↔	< 0.0001	0.447	↔	< 0.0001	0.934	↔	2024-04-06	2024-09-25	0.338
21_2_5_129	MW-11	Part 115	Zinc	mg/L	20	4	20%	-0.00044627	0.152	↔	< 0.0001	0.687	↔	< 0.0001	0.005	↑	2023-03-14	2023-12-31	0.577
22_2_3_108	MW-12	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	-0.010509	0.275	↔	0.017295	0.818	↔	-0.020714	0.056	↔	2024-04-14	2025-02-25	0.341
22_2_3_112	MW-12	Appendix III	Fluoride	mg/L	20	0	0%	-0.0014269	0.019	↔	0.00059108	0.209	↔	-0.00012731	0.191	↔	2023-06-06	2024-02-13	0.493
22_2_3_120	MW-12	Appendix III	pH (field)	su	20	0	0%	0.0064006	0.158	↔	-0.0044118	0.757	↔	-0.00012027	0.633	↔	2023-03-21	2023-06-14	0.199
22_2_3_126	MW-12	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	-0.032852	0.793	↔	0.30478	0.702	↔	-0.63965	0.173	↔	2025-01-05	2025-10-21	0.161

(Table continues on next page)

Table 10: Trend Tests: Piecewise Linear-Linear-Linear *(continued)*

								Line 1			Line 2			Line 3					
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Slope	p-Value	Trend	Slope	p-Value	Trend	Slope	p-Value	Trend	Break 1	Break 2	R-Squared
22_2_4_101	MW-12	Appendix IV	Antimony	mg/L	20	0	0%	< 0.0001	0.324	↔	< 0.0001	0.481	↔	< 0.0001	0.397	↔	2024-01-27	2025-02-21	0.182
22_2_4_106	MW-12	Appendix IV	Cadmium	mg/L	20	0	0%	< 0.0001	0.974	↔	< 0.0001	0.275	↔	< 0.0001	0.023	↔	2024-09-17	2025-08-12	0.513
22_2_4_109	MW-12	Appendix IV	Chromium, Total	mg/L	20	6	30%	< 0.0001	0.446	↔	< 0.0001	0.418	↔	< 0.0001	0.217	↔	2023-05-27	2024-03-10	0.181
22_2_4_110	MW-12	Appendix IV	Cobalt	mg/L	20	5	25%	< 0.0001	0.945	↔	< 0.0001	0.142	↔	< 0.0001	0.428	↔	2024-05-16	2025-10-22	0.380
22_2_4_113	MW-12	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	-0.0014269	0.019	↔	0.00059108	0.209	↔	-0.00012731	0.191	↔	2023-06-06	2024-02-13	0.493
22_2_4_115	MW-12	Appendix IV	Lead	mg/L	20	6	30%	< 0.0001	0.230	↔	< 0.0001	0.527	↔	< 0.0001	0.152	↔	2025-08-26	2026-04-11	0.418
22_2_4_116	MW-12	Appendix IV	Lithium	mg/L	20	1	5%	< 0.0001	0.523	↔	< 0.0001	0.524	↔	< 0.0001	0.374	↔	2023-03-01	2023-05-05	0.163
22_2_4_117	MW-12	Appendix IV	Mercury	ng/L	20	12	60%	0.044973	0.341	↔	-0.69025	0.006	↓	0.0048479	0.962	↔	2024-10-08	2025-07-03	0.899
22_2_4_122	MW-12	Appendix IV	Selenium	mg/L	20	0	0%	< 0.0001	0.257	↔	< 0.0001	0.141	↔	< 0.0001	0.396	↔	2023-07-23	2026-02-18	0.270
22_2_5_111	MW-12	Part 115	Copper	mg/L	20	0	0%	< 0.0001	0.896	↔	< 0.0001	0.224	↔	< 0.0001	0.523	↔	2024-03-07	2025-02-26	0.446
22_2_5_128	MW-12	Part 115	Vanadium	mg/L	20	6	30%	< 0.0001	0.055	↔	< 0.0001	0.222	↔	< 0.0001	0.994	↔	2024-10-15	2025-09-03	0.363
26_1_3_107	MW-16	Appendix III	Calcium	mg/L	10	0	0%	0.20104	0.364	↔	-0.073153	0.475	↔	-0.34144	0.376	↔	2025-01-28	2026-02-19	0.691
26_1_4_101	MW-16	Appendix IV	Antimony	mg/L	10	9	90%	< 0.0001	0.162	↔	< 0.0001	0.391	↔	< 0.0001	0.723	↔	2024-10-17	2025-08-27	0.578
26_1_4_102	MW-16	Appendix IV	Arsenic	mg/L	10	0	0%	< 0.0001	0.724	↔	0.00012356	0.536	↔	< 0.0001	0.870	↔	2025-07-10	2025-10-29	0.379
26_1_4_109	MW-16	Appendix IV	Chromium, Total	mg/L	10	0	0%	< 0.0001	0.879	↔	< 0.0001	0.820	↔	< 0.0001	0.773	↔	2025-01-29	2025-07-24	0.220
26_1_4_110	MW-16	Appendix IV	Cobalt	mg/L	10	0	0%	< 0.0001	0.582	↔	< 0.0001	0.771	↔	< 0.0001	0.665	↔	2024-12-26	2025-04-30	0.157
26_1_4_115	MW-16	Appendix IV	Lead	mg/L	10	6	60%	< 0.0001	0.843	↔	< 0.0001	0.681	↔	< 0.0001	0.689	↔	2025-02-22	2025-10-21	0.222
26_1_4_118	MW-16	Appendix IV	Molybdenum	mg/L	10	9	90%	< 0.0001	1.000	↔	< 0.0001	1.000	↔	< 0.0001	0.446	↔	2024-07-21	2025-08-26	0.366
26_1_5_111	MW-16	Part 115	Copper	mg/L	10	5	50%	< 0.0001	0.875	↔	< 0.0001	0.315	↔	< 0.0001	0.193	↔	2025-08-12	2025-12-03	0.537
26_1_5_128	MW-16	Part 115	Vanadium	mg/L	10	3	30%	< 0.0001	0.271	↔	< 0.0001	0.483	↔	< 0.0001	0.268	↔	2025-09-06	2026-04-10	0.493
27_1_3_107	MW-17	Appendix III	Calcium	mg/L	10	0	0%	-0.16924	0.271	↔	0.095767	0.788	↔	-0.093469	0.207	↔	2024-12-03	2025-08-11	0.584
27_1_3_108	MW-17	Appendix III	Chloride (as Cl)	mg/L	10	0	0%	0.019682	0.774	↔	-0.053675	0.279	↔	0.032075	0.667	↔	2024-11-12	2026-02-17	0.712
27_1_3_112	MW-17	Appendix III	Fluoride	mg/L	10	0	0%	-0.00022177	0.702	↔	0.0011192	0.286	↔	-0.00064375	0.540	↔	2025-03-03	2025-10-28	0.520
27_1_4_101	MW-17	Appendix IV	Antimony	mg/L	10	8	80%	< 0.0001	0.826	↔	< 0.0001	0.280	↔	< 0.0001	0.555	↔	2024-09-22	2026-02-18	0.368
27_1_4_109	MW-17	Appendix IV	Chromium, Total	mg/L	10	0	0%	< 0.0001	0.870	↔	< 0.0001	0.597	↔	< 0.0001	0.460	↔	2024-09-30	2026-02-17	0.209
27_1_4_110	MW-17	Appendix IV	Cobalt	mg/L	10	0	0%	< 0.0001	0.932	↔	< 0.0001	0.737	↔	< 0.0001	0.666	↔	2024-09-06	2026-02-18	0.167
27_1_4_113	MW-17	Appendix IV	Fluoride (App IV)	mg/L	10	0	0%	-0.00022177	0.702	↔	0.0011192	0.286	↔	-0.00064375	0.540	↔	2025-03-03	2025-10-28	0.520
27_1_4_115	MW-17	Appendix IV	Lead	mg/L	10	1	10%	< 0.0001	0.612	↔	< 0.0001	0.516	↔	< 0.0001	0.633	↔	2025-01-17	2025-10-29	0.275
27_1_4_122	MW-17	Appendix IV	Selenium	mg/L	10	0	0%	< 0.0001	0.873	↔	< 0.0001	0.532	↔	< 0.0001	0.110	↔	2025-08-11	2026-02-17	0.639
27_1_5_119	MW-17	Part 115	Nickel	mg/L	10	0	0%	< 0.0001	0.705	↔	< 0.0001	0.244	↔	< 0.0001	0.175	↔	2026-01-21	2025-08-05	0.530
27_1_5_128	MW-17	Part 115	Vanadium	mg/L	10	0	0%	< 0.0001	0.208	↔	< 0.0001	0.787	↔	< 0.0001	0.359	↔	2025-07-27	2026-02-17	0.592
28_1_3_107	MW-18	Appendix III	Calcium	mg/L	20	0	0%	-1.1356	0.157	↔	-0.013947	0.795	↔	-0.34408	0.476	↔	2023-03-31	2026-01-01	0.483
28_1_3_120	MW-18	Appendix III	pH (field)	su	20	0	0%	0.0020745	0.339	↔	0.00012445	0.011	↔	-0.0013751	0.006	↓	2023-02-07	2025-12-11	0.766
28_1_3_124	MW-18	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	-8.7641	0.219	↔	0.23607	0.383	↔	-0.9335	0.022	↔	2023-02-07	2025-02-15	0.626
28_1_3_126	MW-18	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	-5.4756	0.122	↔	0.090349	0.744	↔	-0.97124	0.014	↔	2023-03-12	2025-01-17	0.734
28_1_4_101	MW-18	Appendix IV	Antimony	mg/L	20	3	15%	< 0.0001	0.603	↔	< 0.0001	0.717	↔	< 0.0001	0.062	↔	2024-02-13	2024-08-13	0.348
28_1_4_103	MW-18	Appendix IV	Barium	mg/L	20	0	0%	< 0.0001	0.695	↔	< 0.0001	0.813	↔	< 0.0001	0.082	↔	2023-08-08	2025-04-30	0.509
28_1_4_110	MW-18	Appendix IV	Cobalt	mg/L	20	0	0%	< 0.0001	0.000	↓	< 0.0001	0.054	↔	< 0.0001	0.098	↔	2023-04-29	2026-04-18	0.908
28_1_4_115	MW-18	Appendix IV	Lead	mg/L	20	12	60%	< 0.0001	0.708	↔	< 0.0001	0.546	↔	< 0.0001	0.737	↔	2023-03-06	2023-10-16	0.250
28_1_4_116	MW-18	Appendix IV	Lithium	mg/L	20	0	0%	-0.00018793	0.276	↔	< 0.0001	0.815	↔	< 0.0001	0.266	↔	2023-02-08	2025-05-24	0.355
28_1_4_121	MW-18	Appendix IV	Radium 226 and 228	pCi/L	20	10	50%	0.0031835	0.144	↔	-0.00092919	0.165	↔	< 0.0001	0.815	↔	2023-04-17	2024-04-03	0.434
28_1_4_125	MW-18	Appendix IV	Thallium	mg/L	20	18	90%	< 0.0001	0.661	↔	< 0.0001	0.278	↔	< 0.0001	0.722	↔	2023-02-07	2025-03-13	0.151

(Table continues on next page)

Table 10: Trend Tests: Piecewise Linear-Linear-Linear *(continued)*

								Line 1			Line 2			Line 3					
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Slope	p-Value	Trend	Slope	p-Value	Trend	Slope	p-Value	Trend	Break 1	Break 2	R-Squared
28_1_5_111	MW-18	Part 115	Copper	mg/L	20	0	0%	< 0.0001	0.476	↔	< 0.0001	0.917	↔	< 0.0001	0.140	↔	2024-11-06	2025-04-27	0.440
28_1_5_114	MW-18	Part 115	Iron	mg/L	20	0	0%	-0.045456	0.008	↓	0.011466	0.156	↔	-0.0044619	0.002	↓	2023-04-04	2024-01-22	0.732
28_1_5_119	MW-18	Part 115	Nickel	mg/L	20	0	0%	< 0.0001	0.007	↓	< 0.0001	0.793	↔	< 0.0001	0.186	↔	2023-04-22	2025-05-08	0.677
28_1_5_123	MW-18	Part 115	Silver	mg/L	20	20	100%	< 0.0001	0.670	↔	< 0.0001	0.213	↔	< 0.0001	0.878	↔	2023-02-07	2025-10-21	0.189
28_1_5_128	MW-18	Part 115	Vanadium	mg/L	20	18	90%	< 0.0001	0.349	↔	< 0.0001	0.028	↔	< 0.0001	0.494	↔	2024-11-25	2025-10-18	0.912
28_1_5_129	MW-18	Part 115	Zinc	mg/L	20	0	0%	< 0.0001	0.114	↔	-0.00057319	0.150	↔	< 0.0001	0.997	↔	2025-11-14	2025-03-02	0.685
29_1_3_105	MW-19	Appendix III	Boron	mg/L	20	0	0%	-0.0005159	0.609	↔	0.0017898	0.187	↔	-0.0019174	0.642	↔	2024-05-27	2025-10-24	0.257
29_1_3_112	MW-19	Appendix III	Fluoride	mg/L	20	0	0%	-0.0043547	0.383	↔	-0.00038658	0.241	↔	0.00050842	0.419	↔	2023-02-22	2025-02-26	0.368
29_1_3_124	MW-19	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	-5.3685	0.428	↔	-0.11308	0.441	↔	-0.08235	0.913	↔	2023-02-07	2025-10-12	0.430
29_1_4_101	MW-19	Appendix IV	Antimony	mg/L	20	14	70%	< 0.0001	0.716	↔	< 0.0001	0.626	↔	< 0.0001	0.614	↔	2023-01-29	2026-02-18	0.141
29_1_4_102	MW-19	Appendix IV	Arsenic	mg/L	20	0	0%	< 0.0001	0.663	↔	< 0.0001	0.104	↔	< 0.0001	0.495	↔	2024-10-16	2026-04-12	0.588
29_1_4_103	MW-19	Appendix IV	Barium	mg/L	20	0	0%	-0.00010663	0.094	↔	< 0.0001	0.639	↔	< 0.0001	0.453	↔	2023-03-22	2026-01-09	0.545
29_1_4_106	MW-19	Appendix IV	Cadmium	mg/L	20	18	90%	< 0.0001	0.482	↔	< 0.0001	0.945	↔	< 0.0001	0.749	↔	2023-05-05	2026-02-22	0.122
29_1_4_109	MW-19	Appendix IV	Chromium, Total	mg/L	20	6	30%	< 0.0001	0.273	↔	< 0.0001	0.666	↔	< 0.0001	0.890	↔	2023-05-21	2026-04-22	0.350
29_1_4_110	MW-19	Appendix IV	Cobalt	mg/L	20	2	10%	< 0.0001	0.176	↔	< 0.0001	0.070	↔	< 0.0001	0.110	↔	2024-06-21	2025-12-16	0.404
29_1_4_113	MW-19	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	-0.0043547	0.383	↔	-0.00038658	0.241	↔	0.00050842	0.419	↔	2023-02-22	2025-02-26	0.368
29_1_4_115	MW-19	Appendix IV	Lead	mg/L	20	20	100%	< 0.0001	0.002	↑	< 0.0001	0.104	↔	< 0.0001	0.722	↔	2023-03-28	2023-06-11	0.756
29_1_4_116	MW-19	Appendix IV	Lithium	mg/L	20	0	0%	< 0.0001	0.054	↔	< 0.0001	0.642	↔	< 0.0001	0.527	↔	2024-02-12	2025-09-08	0.626
29_1_4_118	MW-19	Appendix IV	Molybdenum	mg/L	20	0	0%	< 0.0001	0.333	↔	< 0.0001	0.370	↔	< 0.0001	0.092	↔	2024-06-28	2025-02-06	0.514
29_1_4_121	MW-19	Appendix IV	Radium 226 and 228	pCi/L	20	9	45%	0.0054944	0.192	↔	-0.0010628	0.147	↔	< 0.0001	0.863	↔	2023-03-02	2024-04-07	0.446
29_1_4_122	MW-19	Appendix IV	Selenium	mg/L	20	11	55%	< 0.0001	0.333	↔	< 0.0001	0.330	↔	< 0.0001	0.002	↓	2025-06-28	2026-02-17	0.640
29_1_4_125	MW-19	Appendix IV	Thallium	mg/L	20	19	95%	< 0.0001	0.272	↔	< 0.0001	0.680	↔	< 0.0001	0.467	↔	2023-02-08	2025-02-13	0.245
29_1_5_111	MW-19	Part 115	Copper	mg/L	20	16	80%	< 0.0001	0.378	↔	< 0.0001	0.737	↔	< 0.0001	0.768	↔	2023-08-09	2025-08-12	0.102
29_1_5_114	MW-19	Part 115	Iron	mg/L	20	0	0%	0.010927	0.022	↔	-0.03082	0.005	↓	0.014891	0.501	↔	2024-09-30	2025-12-30	0.720
29_1_5_123	MW-19	Part 115	Silver	mg/L	20	20	100%	< 0.0001	0.199	↔	< 0.0001	0.187	↔	< 0.0001	0.611	↔	2023-04-16	2023-08-07	0.392
29_1_5_128	MW-19	Part 115	Vanadium	mg/L	20	14	70%	< 0.0001	0.425	↔	< 0.0001	0.756	↔	< 0.0001	0.758	↔	2023-10-03	2025-10-22	0.162
30_1_3_108	MW-20	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	0.088267	0.406	↔	-0.058308	0.000	↓	0.15315	0.304	↔	2023-05-20	2026-04-03	0.807
30_1_3_120	MW-20	Appendix III	pH (field)	su	20	0	0%	0.00010704	0.375	↔	-0.00036025	0.477	↔	-0.0013954	0.331	↔	2025-02-26	2026-04-05	0.358
30_1_3_124	MW-20	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	1.1723	0.018	↔	-0.65709	0.144	↔	0.0074248	0.642	↔	2023-02-13	2023-06-27	0.638
30_1_3_126	MW-20	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	0.10082	0.596	↔	-0.87912	0.561	↔	0.07957	0.696	↔	2024-04-18	2024-11-15	0.384
30_1_4_101	MW-20	Appendix IV	Antimony	mg/L	20	8	40%	< 0.0001	0.751	↔	< 0.0001	0.201	↔	< 0.0001	0.249	↔	2024-11-11	2025-10-22	0.402
30_1_4_102	MW-20	Appendix IV	Arsenic	mg/L	20	0	0%	< 0.0001	0.457	↔	< 0.0001	0.405	↔	< 0.0001	0.702	↔	2023-01-08	2023-06-28	0.135
30_1_4_103	MW-20	Appendix IV	Barium	mg/L	20	0	0%	-0.0068244	0.011	↔	0.00022294	0.105	↔	-0.00071307	0.094	↔	2023-02-13	2025-08-02	0.622
30_1_4_106	MW-20	Appendix IV	Cadmium	mg/L	20	19	95%	< 0.0001	0.909	↔	< 0.0001	0.106	↔	< 0.0001	0.426	↔	2024-02-09	2025-10-22	0.361
30_1_4_109	MW-20	Appendix IV	Chromium, Total	mg/L	20	10	50%	< 0.0001	0.570	↔	< 0.0001	0.054	↔	< 0.0001	0.206	↔	2025-01-29	2026-02-27	0.427
30_1_4_110	MW-20	Appendix IV	Cobalt	mg/L	20	0	0%	< 0.0001	0.187	↔	< 0.0001	0.533	↔	< 0.0001	0.150	↔	2023-10-24	2025-03-03	0.451
30_1_4_115	MW-20	Appendix IV	Lead	mg/L	20	0	0%	< 0.0001	0.337	↔	< 0.0001	0.173	↔	< 0.0001	0.396	↔	2024-11-19	2025-10-22	0.350
30_1_4_118	MW-20	Appendix IV	Molybdenum	mg/L	20	0	0%	< 0.0001	0.419	↔	< 0.0001	0.663	↔	< 0.0001	0.069	↔	2023-06-28	2024-10-18	0.425
30_1_4_121	MW-20	Appendix IV	Radium 226 and 228	pCi/L	19	10	53%	-0.021685	0.028	↔	0.0012111	0.544	↔	< 0.0001	0.627	↔	2023-01-15	2023-08-06	0.543
30_1_4_122	MW-20	Appendix IV	Selenium	mg/L	20	12	60%	< 0.0001	0.073	↔	< 0.0001	0.272	↔	< 0.0001	0.057	↔	2025-01-10	2025-10-21	0.402
30_1_5_111	MW-20	Part 115	Copper	mg/L	20	2	10%	< 0.0001	0.922	↔	< 0.0001	0.343	↔	< 0.0001	0.541	↔	2024-06-03	2025-10-21	0.284
30_1_5_114	MW-20	Part 115	Iron	mg/L	20	0	0%	-0.0010167	0.861	↔	-0.0090589	0.248	↔	-0.0047878	0.565	↔	2024-02-17	2025-05-15	0.605

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Table 10: Trend Tests: Piecewise Linear-Linear-Linear *(continued)*

								Line 1			Line 2			Line 3					
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Slope	p-Value	Trend	Slope	p-Value	Trend	Slope	p-Value	Trend	Break 1	Break 2	R-Squared
30_1_5_119	MW-20	Part 115	Nickel	mg/L	20	0	0%	< 0.0001	0.187	↔	< 0.0001	0.102	↔	< 0.0001	0.019	↔	2025-04-08	2025-10-21	0.589
30_1_5_128	MW-20	Part 115	Vanadium	mg/L	20	20	100%	< 0.0001	0.523	↔	< 0.0001	0.000	↓	< 0.0001	0.568	↔	2024-09-13	2026-04-14	0.882
30_1_5_129	MW-20	Part 115	Zinc	mg/L	20	0	0%	< 0.0001	0.144	↔	0.00010637	0.154	↔	-0.00014637	0.177	↔	2024-04-27	2025-10-21	0.374
38_1_3_107	MW-28	Appendix III	Calcium	mg/L	10	0	0%	0.080182	0.412	↔	-0.45128	0.091	↔	0.45943	0.258	↔	2025-08-13	2026-02-28	0.674
38_1_3_126	MW-28	Appendix III	Total Dissolved Solids	mg/L	10	0	0%	1.5897	0.087	↔	-1.4658	0.012	↔	2.1622	0.152	↔	2025-02-20	2026-04-02	0.892
38_1_4_102	MW-28	Appendix IV	Arsenic	mg/L	10	0	0%	< 0.0001	0.645	↔	< 0.0001	0.513	↔	< 0.0001	0.051	↔	2025-02-08	2026-03-13	0.848
38_1_4_106	MW-28	Appendix IV	Cadmium	mg/L	10	5	50%	< 0.0001	0.704	↔	< 0.0001	0.524	↔	< 0.0001	0.163	↔	2025-07-15	2026-02-17	0.680
38_1_4_110	MW-28	Appendix IV	Cobalt	mg/L	10	0	0%	< 0.0001	0.441	↔	< 0.0001	0.593	↔	< 0.0001	0.523	↔	2025-01-26	2025-11-09	0.518
38_1_4_115	MW-28	Appendix IV	Lead	mg/L	10	0	0%	< 0.0001	0.264	↔	< 0.0001	0.494	↔	< 0.0001	0.003	↑	2025-02-27	2025-11-30	0.976
38_1_4_122	MW-28	Appendix IV	Selenium	mg/L	10	0	0%	< 0.0001	0.689	↔	< 0.0001	0.566	↔	< 0.0001	0.154	↔	2025-07-08	2026-02-17	0.641
38_1_5_114	MW-28	Part 115	Iron	mg/L	10	0	0%	0.029584	0.483	↔	-0.21331	0.075	↔	0.23346	0.201	↔	2025-07-27	2026-02-23	0.742
38_1_5_119	MW-28	Part 115	Nickel	mg/L	10	0	0%	< 0.0001	0.478	↔	< 0.0001	0.415	↔	< 0.0001	0.643	↔	2025-01-17	2025-10-30	0.334
38_1_5_128	MW-28	Part 115	Vanadium	mg/L	10	2	20%	< 0.0001	0.485	↔	< 0.0001	0.183	↔	< 0.0001	0.019	↔	2024-08-31	2025-12-22	0.896
40_1_3_105	MW-30	Appendix III	Boron	mg/L	20	0	0%	0.0043588	0.821	↔	-0.0012097	0.401	↔	< 0.0001	0.901	↔	2023-01-30	2024-04-06	0.225
40_1_3_107	MW-30	Appendix III	Calcium	mg/L	20	0	0%	-0.51509	0.418	↔	0.44583	0.655	↔	-0.42058	0.297	↔	2023-11-13	2025-02-24	0.130
40_1_3_108	MW-30	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	-0.2078	0.336	↔	3.8083	0.000	↑	-2.0475	0.000	↓	2024-06-17	2025-05-12	0.949
40_1_3_120	MW-30	Appendix III	pH (field)	su	20	0	0%	0.0030676	0.419	↔	-0.00012644	0.353	↔	-0.00084483	0.712	↔	2023-03-12	2026-03-06	0.255
40_1_4_101	MW-30	Appendix IV	Antimony	mg/L	20	16	80%	< 0.0001	0.875	↔	< 0.0001	0.303	↔	< 0.0001	0.129	↔	2025-04-19	2025-12-15	0.293
40_1_4_102	MW-30	Appendix IV	Arsenic	mg/L	20	2	10%	< 0.0001	0.690	↔	< 0.0001	0.022	↔	< 0.0001	0.187	↔	2024-05-14	2025-10-21	0.601
40_1_4_103	MW-30	Appendix IV	Barium	mg/L	20	0	0%	-0.00021466	0.051	↔	< 0.0001	0.096	↔	-0.00019859	0.199	↔	2023-07-04	2026-02-15	0.421
40_1_4_106	MW-30	Appendix IV	Cadmium	mg/L	20	19	95%	< 0.0001	0.532	↔	< 0.0001	0.915	↔	< 0.0001	0.504	↔	2023-05-18	2025-02-24	0.132
40_1_4_109	MW-30	Appendix IV	Chromium, Total	mg/L	20	0	0%	< 0.0001	0.311	↔	< 0.0001	0.360	↔	< 0.0001	0.458	↔	2024-12-17	2025-10-30	0.176
40_1_4_110	MW-30	Appendix IV	Cobalt	mg/L	20	0	0%	< 0.0001	0.558	↔	< 0.0001	0.252	↔	< 0.0001	0.164	↔	2023-11-02	2025-02-25	0.284
40_1_4_115	MW-30	Appendix IV	Lead	mg/L	20	18	90%	< 0.0001	0.626	↔	0.00013499	0.146	↔	-0.00013638	0.016	↔	2025-02-07	2025-10-20	0.501
40_1_4_116	MW-30	Appendix IV	Lithium	mg/L	20	0	0%	0.00091873	0.087	↔	-0.0013309	0.418	↔	< 0.0001	0.235	↔	2023-03-13	2023-05-24	0.344
40_1_4_117	MW-30	Appendix IV	Mercury	ng/L	20	18	90%	0.24127	0.040	↔	-0.50837	0.013	↔	-0.00013637	1.000	↔	2024-04-07	2025-08-11	0.769
40_1_4_125	MW-30	Appendix IV	Thallium	mg/L	20	20	100%	< 0.0001	0.168	↔	< 0.0001	0.279	↔	< 0.0001	0.542	↔	2023-02-13	2026-03-17	0.357
40_1_5_111	MW-30	Part 115	Copper	mg/L	20	14	70%	< 0.0001	0.675	↔	< 0.0001	0.033	↔	< 0.0001	0.131	↔	2025-02-13	2025-10-21	0.490
40_1_5_123	MW-30	Part 115	Silver	mg/L	20	19	95%	< 0.0001	0.536	↔	< 0.0001	0.556	↔	< 0.0001	0.702	↔	2023-02-05	2023-09-25	0.206
40_1_5_128	MW-30	Part 115	Vanadium	mg/L	20	16	80%	< 0.0001	0.576	↔	< 0.0001	0.097	↔	< 0.0001	0.347	↔	2024-03-05	2025-10-21	0.327
40_1_5_129	MW-30	Part 115	Zinc	mg/L	20	10	50%	< 0.0001	0.897	↔	< 0.0001	0.152	↔	-0.00026225	0.428	↔	2024-02-15	2026-02-16	0.314
41_1_3_107	MW-31	Appendix III	Calcium	mg/L	20	0	0%	-0.15331	0.650	↔	0.019227	0.823	↔	0.12438	0.323	↔	2023-06-26	2025-02-25	0.230
41_1_3_112	MW-31	Appendix III	Fluoride	mg/L	20	0	0%	-0.00058957	0.014	↔	-0.01	0.047	↔	0.0049779	0.014	↔	2025-07-08	2025-12-30	0.913
41_1_3_120	MW-31	Appendix III	pH (field)	su	20	0	0%	< 0.0001	0.787	↔	< 0.0001	0.964	↔	-0.0013061	0.341	↔	2024-12-22	2025-10-23	0.315
41_1_4_102	MW-31	Appendix IV	Arsenic	mg/L	20	0	0%	< 0.0001	0.566	↔	< 0.0001	0.650	↔	< 0.0001	0.000	↑	2025-03-20	2025-09-10	0.890
41_1_4_103	MW-31	Appendix IV	Barium	mg/L	20	0	0%	-0.00010914	0.616	↔	0.00020113	0.079	↔	< 0.0001	0.876	↔	2023-12-24	2025-10-30	0.400
41_1_4_104	MW-31	Appendix IV	Beryllium	mg/L	20	17	85%	< 0.0001	0.046	↔	< 0.0001	0.758	↔	< 0.0001	0.001	↑	2024-10-15	2025-07-10	0.755
41_1_4_110	MW-31	Appendix IV	Cobalt	mg/L	20	3	15%	< 0.0001	0.928	↔	< 0.0001	0.997	↔	< 0.0001	0.164	↔	2023-01-10	2025-04-18	0.292
41_1_4_113	MW-31	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	-0.00058957	0.014	↔	-0.01	0.047	↔	0.0049779	0.014	↔	2025-07-08	2025-12-30	0.913
41_1_4_115	MW-31	Appendix IV	Lead	mg/L	20	14	70%	< 0.0001	0.118	↔	< 0.0001	0.018	↔	< 0.0001	0.337	↔	2025-02-09	2025-10-29	0.514
41_1_4_116	MW-31	Appendix IV	Lithium	mg/L	20	0	0%	< 0.0001	0.791	↔	< 0.0001	0.180	↔	0.0001219	0.000	↑	2023-06-27	2025-05-18	0.824
41_1_4_118	MW-31	Appendix IV	Molybdenum	mg/L	20	0	0%	< 0.0001	0.501	↔	< 0.0001	0.282	↔	< 0.0001	0.526	↔	2024-11-26	2025-10-17	0.690

(Table continues on next page)

Table 10: Trend Tests: Piecewise Linear-Linear-Linear *(continued)*

								Line 1			Line 2			Line 3					
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Slope	p-Value	Trend	Slope	p-Value	Trend	Slope	p-Value	Trend	Break 1	Break 2	R-Squared
41_1_4_121	MW-31	Appendix IV	Radium 226 and 228	pCi/L	20	8	40%	-0.00024232	0.313	↔	0.0012814	0.213	↔	-0.0030234	0.276	↔	2025-04-08	2026-02-16	0.261
41_1_5_111	MW-31	Part 115	Copper	mg/L	20	10	50%	< 0.0001	0.872	↔	< 0.0001	0.283	↔	< 0.0001	0.546	↔	2025-04-06	2025-10-17	0.538
41_1_5_114	MW-31	Part 115	Iron	mg/L	20	0	0%	-0.001367	0.008	↓	0.045	0.000	↑	-0.032368	0.000	↓	2025-10-08	2026-02-23	0.898
41_1_5_119	MW-31	Part 115	Nickel	mg/L	20	10	50%	-0.00013934	0.585	↔	0.00056964	0.041	↔	-0.0011677	0.471	↔	2024-05-29	2026-02-16	0.478
41_1_5_128	MW-31	Part 115	Vanadium	mg/L	20	12	60%	< 0.0001	0.189	↔	< 0.0001	0.269	↔	< 0.0001	0.184	↔	2024-11-04	2026-03-30	0.287
41_1_5_129	MW-31	Part 115	Zinc	mg/L	20	9	45%	< 0.0001	0.612	↔	< 0.0001	0.466	↔	< 0.0001	0.027	↔	2023-08-30	2025-08-28	0.700
42_1_3_108	MW-32	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	-0.021414	0.081	↔	0.02891	0.007	↑	-0.094475	0.022	↔	2024-03-14	2025-10-21	0.693
42_1_3_124	MW-32	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	0.3095	0.866	↔	-0.176	0.250	↔	0.33111	0.097	↔	2023-03-13	2024-12-21	0.271
42_1_3_126	MW-32	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	-0.58901	0.242	↔	0.0034669	0.982	↔	0.34105	0.282	↔	2023-08-07	2025-05-02	0.355
42_1_4_101	MW-32	Appendix IV	Antimony	mg/L	20	16	80%	< 0.0001	0.059	↔	< 0.0001	0.229	↔	< 0.0001	0.709	↔	2024-02-12	2025-05-30	0.325
42_1_4_102	MW-32	Appendix IV	Arsenic	mg/L	20	0	0%	< 0.0001	0.058	↔	< 0.0001	0.456	↔	< 0.0001	0.717	↔	2024-02-12	2025-02-22	0.356
42_1_4_103	MW-32	Appendix IV	Barium	mg/L	20	0	0%	-0.0024461	0.322	↔	0.00093768	0.006	↑	-0.0039099	0.007	↓	2023-04-23	2025-10-15	0.624
42_1_4_109	MW-32	Appendix IV	Chromium, Total	mg/L	20	0	0%	< 0.0001	0.328	↔	< 0.0001	0.208	↔	< 0.0001	0.786	↔	2024-02-11	2025-05-27	0.221
42_1_4_110	MW-32	Appendix IV	Cobalt	mg/L	20	0	0%	< 0.0001	0.470	↔	< 0.0001	0.366	↔	< 0.0001	0.204	↔	2024-02-11	2025-05-17	0.278
42_1_4_115	MW-32	Appendix IV	Lead	mg/L	20	15	75%	< 0.0001	0.398	↔	< 0.0001	0.473	↔	< 0.0001	0.257	↔	2023-07-19	2024-09-02	0.173
42_1_4_117	MW-32	Appendix IV	Mercury	ng/L	20	15	75%	1.5473	0.117	↔	-2.0364	0.116	↔	0.24986	0.851	↔	2024-04-06	2025-05-13	0.362
42_1_4_118	MW-32	Appendix IV	Molybdenum	mg/L	20	0	0%	< 0.0001	0.330	↔	< 0.0001	0.002	↓	< 0.0001	0.283	↔	2024-02-11	2025-12-19	0.678
42_1_4_122	MW-32	Appendix IV	Selenium	mg/L	20	16	80%	< 0.0001	0.423	↔	< 0.0001	0.196	↔	< 0.0001	0.789	↔	2024-02-11	2025-05-18	0.219
42_1_5_111	MW-32	Part 115	Copper	mg/L	20	12	60%	< 0.0001	0.072	↔	< 0.0001	0.137	↔	< 0.0001	0.824	↔	2024-02-11	2024-07-24	0.399
42_1_5_114	MW-32	Part 115	Iron	mg/L	20	0	0%	-0.00905	0.011	↔	0.031264	0.002	↑	-0.061947	0.056	↔	2025-01-04	2026-03-08	0.693
42_1_5_119	MW-32	Part 115	Nickel	mg/L	20	0	0%	< 0.0001	0.158	↔	< 0.0001	0.325	↔	< 0.0001	0.313	↔	2024-02-11	2024-09-25	0.301
42_1_5_128	MW-32	Part 115	Vanadium	mg/L	20	20	100%	< 0.0001	0.521	↔	< 0.0001	0.000	↓	< 0.0001	0.565	↔	2024-09-12	2026-04-13	0.882
42_1_5_129	MW-32	Part 115	Zinc	mg/L	20	0	0%	< 0.0001	0.485	↔	< 0.0001	0.239	↔	< 0.0001	0.992	↔	2023-10-19	2024-10-16	0.297
46_1_3_105	MW-36	Appendix III	Boron	mg/L	10	0	0%	0.0003051	0.455	↔	-0.0017352	0.386	↔	0.0018837	0.381	↔	2025-10-13	2026-03-21	0.398
46_1_3_107	MW-36	Appendix III	Calcium	mg/L	10	0	0%	-0.031883	0.346	↔	0.2963	0.049	↔	-0.011527	0.455	↔	2025-02-25	2025-05-07	0.868
46_1_3_108	MW-36	Appendix III	Chloride (as Cl)	mg/L	10	0	0%	0.05	0.156	↔	-0.02092	0.090	↔	-0.051156	0.006	↓	2024-07-19	2025-10-08	0.973
46_1_3_112	MW-36	Appendix III	Fluoride	mg/L	10	0	0%	0.001101	0.604	↔	< 0.0001	0.973	↔	-0.00071834	0.208	↔	2024-09-28	2025-08-10	0.530
46_1_3_120	MW-36	Appendix III	pH (field)	su	10	0	0%	-0.0063174	0.642	↔	-0.0029838	0.388	↔	0.0030294	0.693	↔	2024-09-06	2025-10-21	0.550
46_1_4_102	MW-36	Appendix IV	Arsenic	mg/L	10	0	0%	< 0.0001	0.045	↔	< 0.0001	0.575	↔	< 0.0001	0.547	↔	2024-11-23	2025-11-25	0.893
46_1_4_106	MW-36	Appendix IV	Cadmium	mg/L	10	2	20%	< 0.0001	0.973	↔	< 0.0001	0.904	↔	< 0.0001	0.942	↔	2025-10-22	2024-09-23	0.467
46_1_4_109	MW-36	Appendix IV	Chromium, Total	mg/L	10	0	0%	< 0.0001	0.434	↔	< 0.0001	0.153	↔	< 0.0001	0.870	↔	2024-08-23	2025-12-01	0.645
46_1_4_113	MW-36	Appendix IV	Fluoride (App IV)	mg/L	10	0	0%	0.001101	0.604	↔	< 0.0001	0.973	↔	-0.00071834	0.208	↔	2024-09-28	2025-08-10	0.530
46_1_4_118	MW-36	Appendix IV	Molybdenum	mg/L	10	0	0%	0.00021207	0.093	↔	< 0.0001	0.362	↔	< 0.0001	0.692	↔	2024-08-02	2025-04-20	0.724
46_1_5_114	MW-36	Part 115	Iron	mg/L	10	0	0%	-5e-04	0.913	↔	0.0027911	0.279	↔	-0.0012256	0.309	↔	2024-10-03	2025-06-04	0.531
46_1_5_123	MW-36	Part 115	Silver	mg/L	10	1	10%	< 0.0001	0.341	↔	< 0.0001	0.945	↔	< 0.0001	0.983	↔	2025-04-21	2025-12-22	0.463
47_1_3_120	MW-37	Appendix III	pH (field)	su	10	0	0%	-0.0032	0.147	↔	0.00055474	0.152	↔	-0.0033036	0.106	↔	2024-07-23	2026-04-17	0.729
47_1_3_126	MW-37	Appendix III	Total Dissolved Solids	mg/L	10	0	0%	-0.58904	0.745	↔	-0.049119	0.909	↔	-0.37486	0.716	↔	2024-10-14	2026-01-28	0.332
47_1_4_102	MW-37	Appendix IV	Arsenic	mg/L	10	0	0%	< 0.0001	0.703	↔	< 0.0001	0.064	↔	< 0.0001	0.256	↔	2024-09-03	2025-10-21	0.742
47_1_4_103	MW-37	Appendix IV	Barium	mg/L	10	0	0%	< 0.0001	0.850	↔	< 0.0001	0.332	↔	-0.00018991	0.323	↔	2024-09-03	2026-01-01	0.528
47_1_4_104	MW-37	Appendix IV	Beryllium	mg/L	10	9	90%	< 0.0001	0.450	↔	< 0.0001	0.599	↔	< 0.0001	0.118	↔	2025-02-03	2025-11-26	0.764
47_1_4_109	MW-37	Appendix IV	Chromium, Total	mg/L	10	0	0%	< 0.0001	0.743	↔	< 0.0001	0.443	↔	< 0.0001	0.389	↔	2025-01-21	2025-10-20	0.369
47_1_4_115	MW-37	Appendix IV	Lead	mg/L	10	2	20%	< 0.0001	0.836	↔	< 0.0001	0.253	↔	< 0.0001	0.492	↔	2025-01-13	2025-10-21	0.450

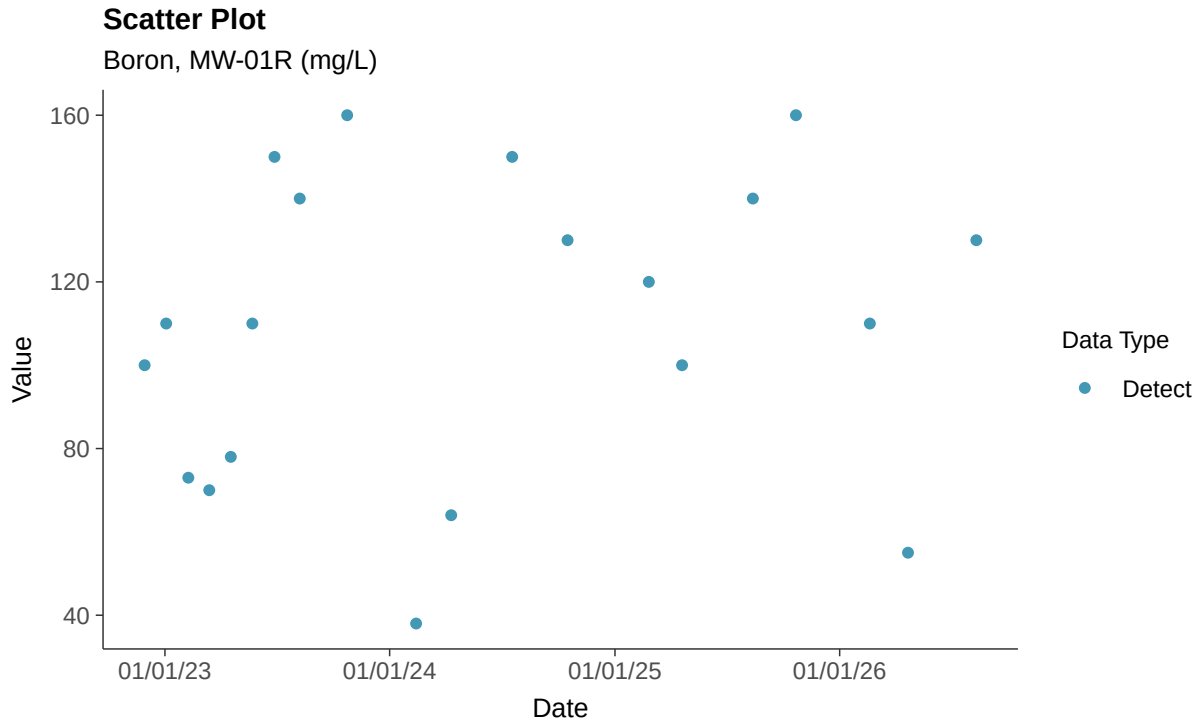
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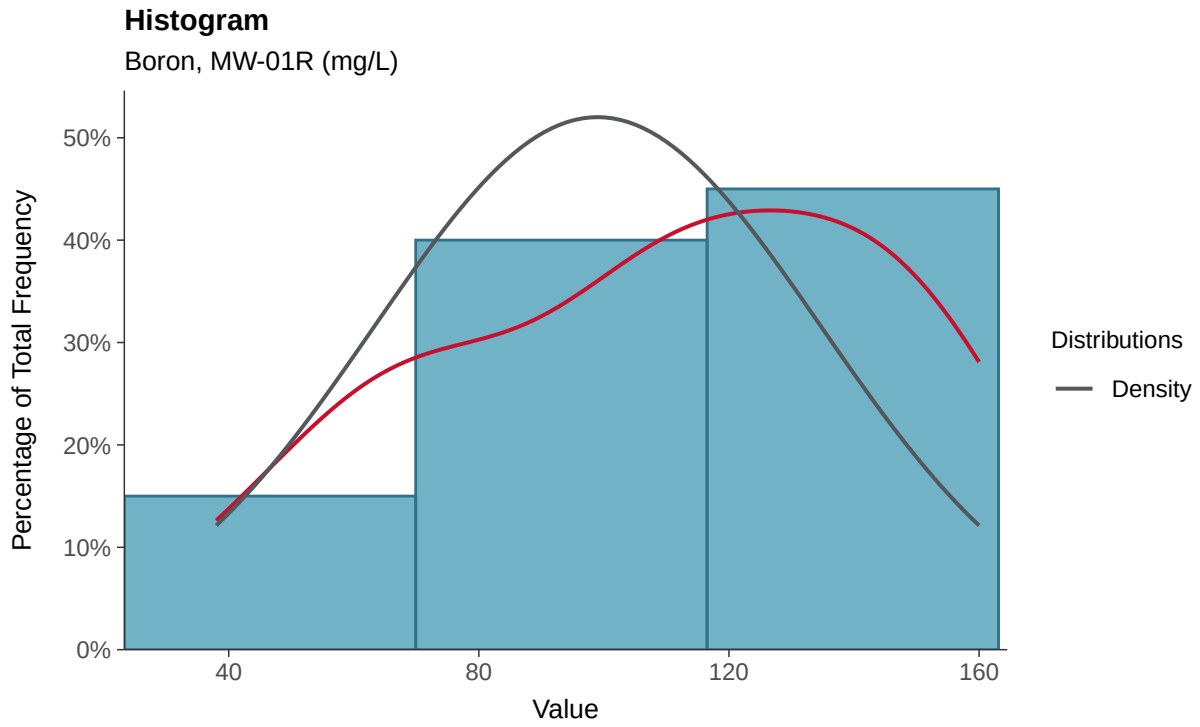
Table 10: Trend Tests: Piecewise Linear-Linear-Linear *(continued)*

								Line 1			Line 2			Line 3					
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Slope	p-Value	Trend	Slope	p-Value	Trend	Slope	p-Value	Trend	Break 1	Break 2	R-Squared
47_1_4_116	MW-37	Appendix IV	Lithium	mg/L	10	0	0%	< 0.0001	0.978	↔	0.00010139	0.524	↔	< 0.0001	0.187	↔	2025-05-20	2024-08-25	0.521
47_1_5_123	MW-37	Part 115	Silver	mg/L	10	9	90%	< 0.0001	0.605	↔	< 0.0001	0.254	↔	< 0.0001	0.798	↔	2024-10-14	2026-03-10	0.400
47_1_5_129	MW-37	Part 115	Zinc	mg/L	10	0	0%	< 0.0001	0.397	↔	< 0.0001	0.911	↔	< 0.0001	0.015	↔	2024-10-31	2025-07-06	0.882
48_2_3_108	MW-38	Appendix III	Chloride (as Cl)	mg/L	10	0	0%	0.089343	0.648	↔	-0.18282	0.251	↔	-0.010355	0.768	↔	2024-09-14	2025-04-19	0.782
48_2_3_120	MW-38	Appendix III	pH (field)	su	10	0	0%	-0.006173	0.763	↔	-0.0010866	0.919	↔	0.0086082	0.140	↔	2024-08-17	2025-08-11	0.567
48_2_4_101	MW-38	Appendix IV	Antimony	mg/L	10	2	20%	< 0.0001	0.332	↔	< 0.0001	0.135	↔	< 0.0001	0.028	↔	2025-02-27	2025-12-23	0.836
48_2_4_106	MW-38	Appendix IV	Cadmium	mg/L	10	4	40%	< 0.0001	0.411	↔	< 0.0001	0.353	↔	< 0.0001	0.098	↔	2025-02-26	2025-08-29	0.669
48_2_4_118	MW-38	Appendix IV	Molybdenum	mg/L	10	0	0%	< 0.0001	0.109	↔	-0.00012623	0.355	↔	< 0.0001	0.152	↔	2025-04-20	2025-10-31	0.780
48_2_4_121	MW-38	Appendix IV	Radium 226 and 228	pCi/L	9	5	56%	0.0023311	0.491	↔	-0.001811	0.920	↔	-0.0050795	0.499	↔	2025-04-23	2026-01-19	0.450
48_2_4_122	MW-38	Appendix IV	Selenium	mg/L	10	0	0%	< 0.0001	0.723	↔	< 0.0001	0.516	↔	< 0.0001	0.585	↔	2025-01-10	2025-10-21	0.260
48_2_4_125	MW-38	Appendix IV	Thallium	mg/L	10	10	100%	< 0.0001	0.855	↔	< 0.0001	0.299	↔	< 0.0001	0.722	↔	2025-02-06	2025-10-21	0.386
48_2_5_114	MW-38	Part 115	Iron	mg/L	10	0	0%	-0.00061294	0.954	↔	0.0038866	0.744	↔	-0.0046686	0.500	↔	2025-01-07	2025-10-20	0.168
48_2_5_123	MW-38	Part 115	Silver	mg/L	10	6	60%	< 0.0001	0.508	↔	< 0.0001	0.407	↔	< 0.0001	0.379	↔	2024-08-01	2025-10-21	0.521
48_2_5_128	MW-38	Part 115	Vanadium	mg/L	10	2	20%	< 0.0001	0.157	↔	-0.00011171	0.218	↔	< 0.0001	0.154	↔	2025-06-10	2025-11-16	0.756

Appendix III: Boron, MW-01R

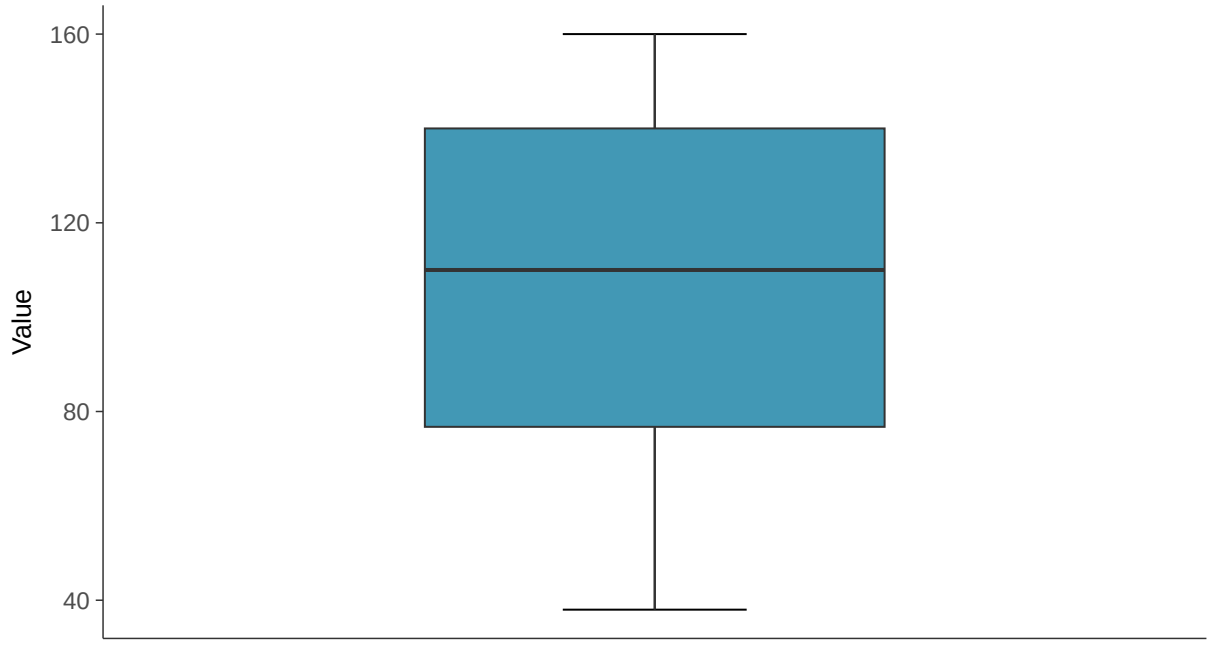
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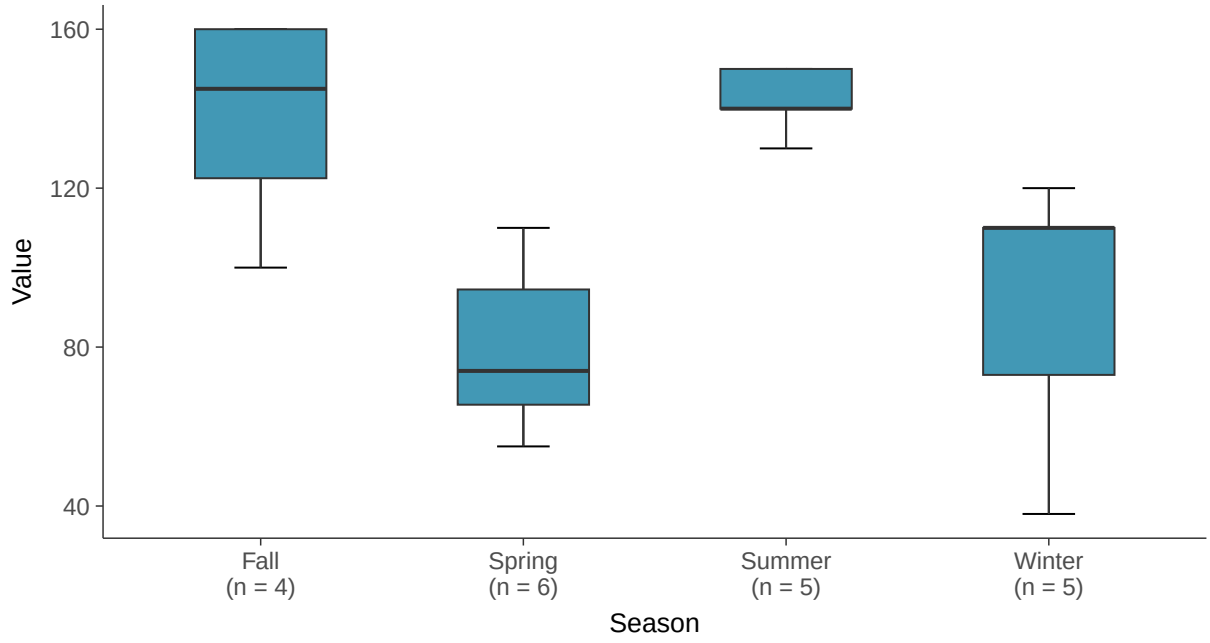
Boxplot

Boron, MW-01R (mg/L)



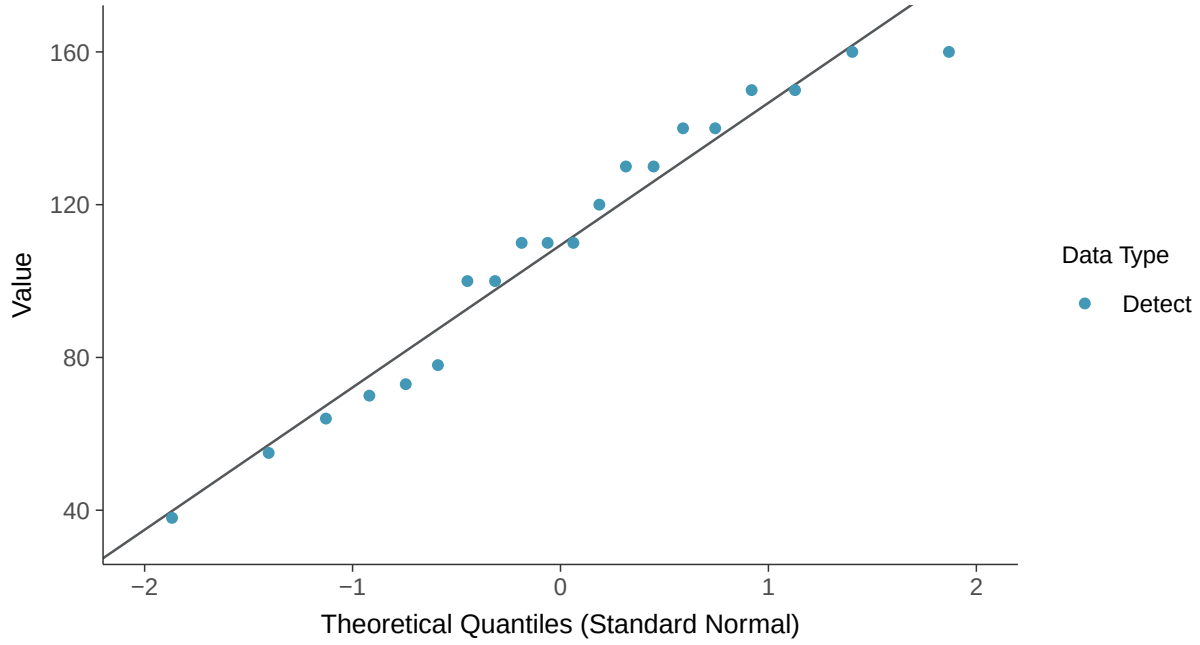
Boxplot by Season

Boron, MW-01R (mg/L)



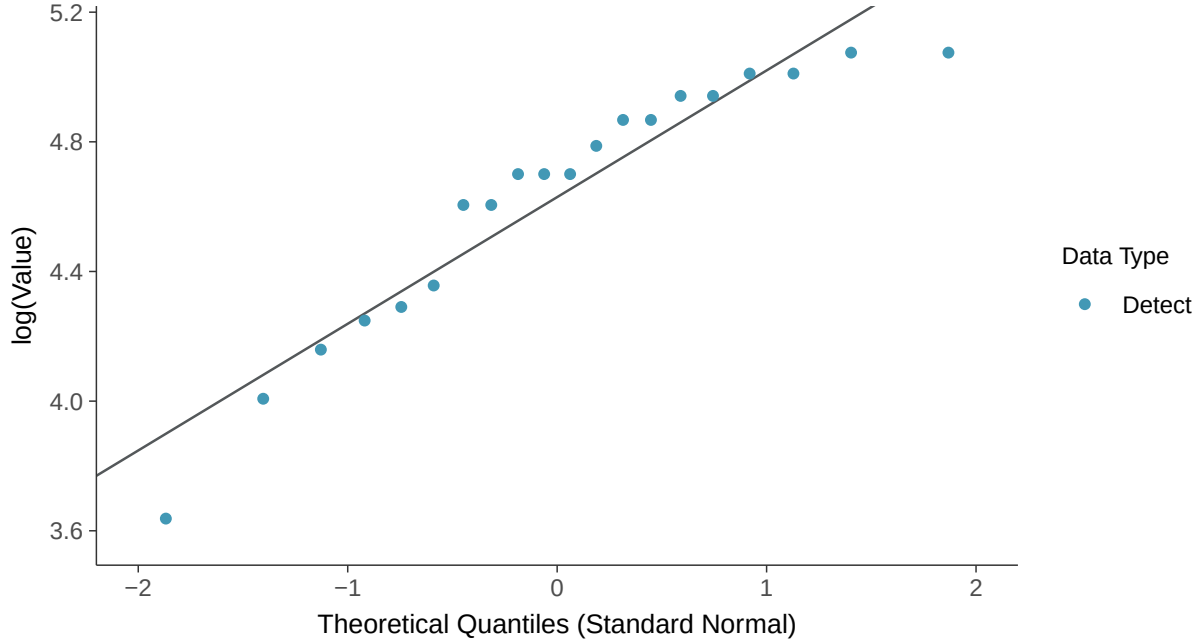
Normal Q-Q plot

Boron, MW-01R (mg/L)



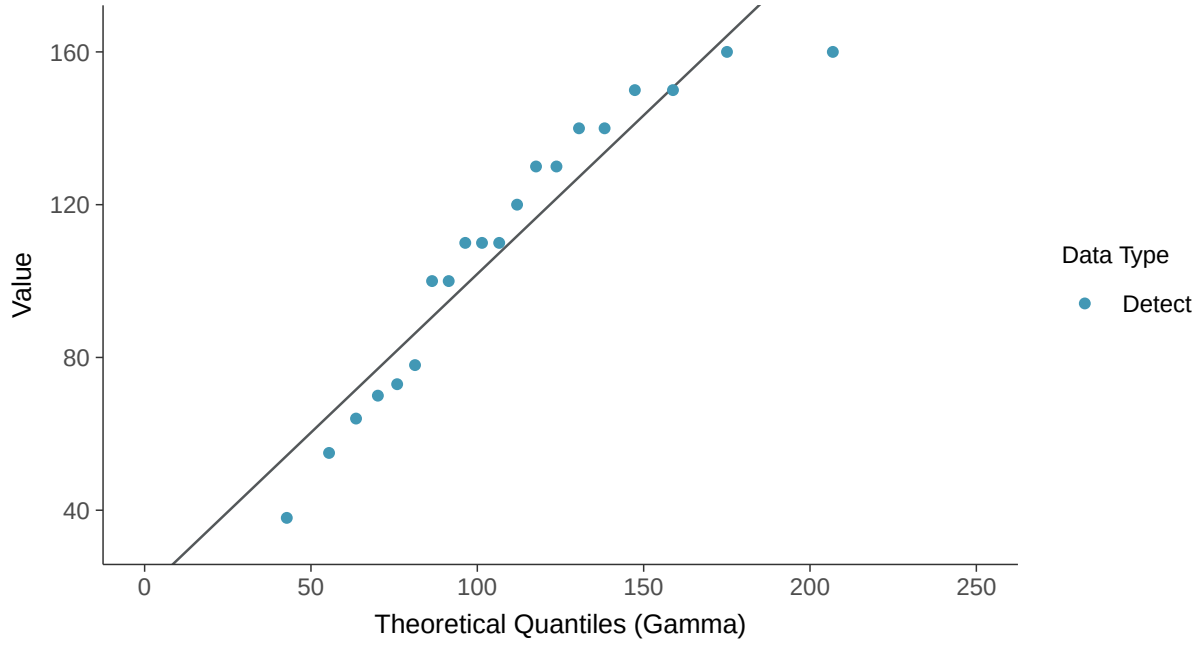
Lognormal Q-Q plot

Boron, MW-01R (mg/L)



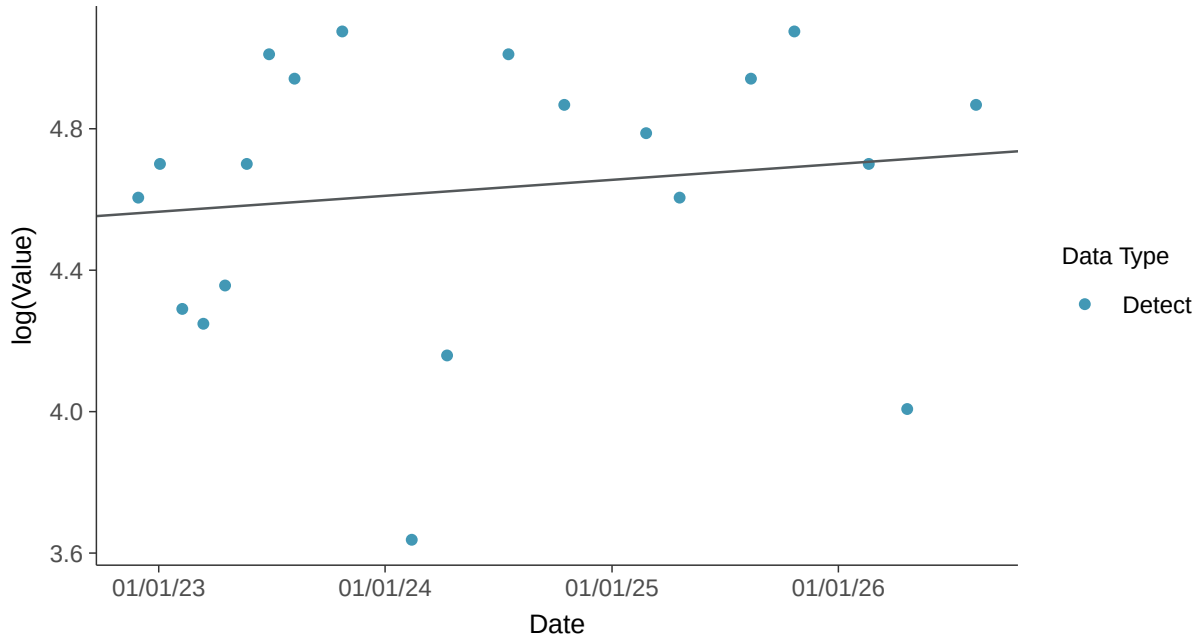
Gamma Q-Q plot

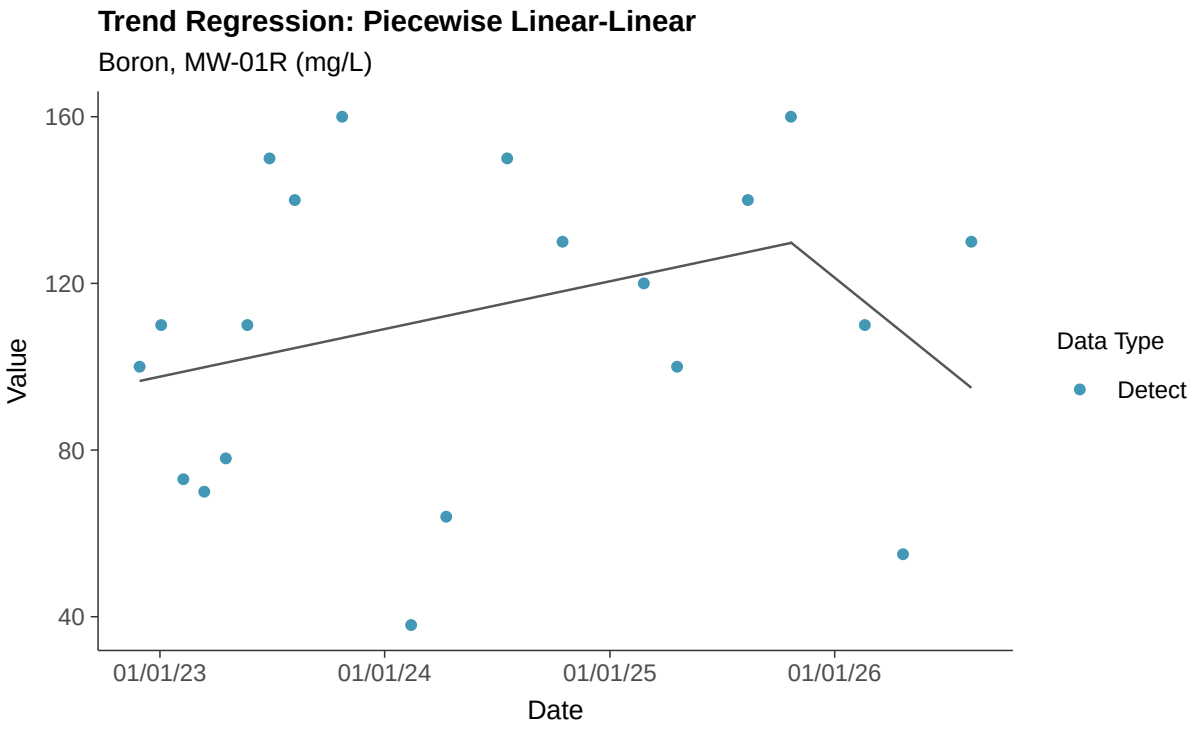
Boron, MW-01R (mg/L)



Trend Regression: Lognormal MLE

Boron, MW-01R (mg/L)



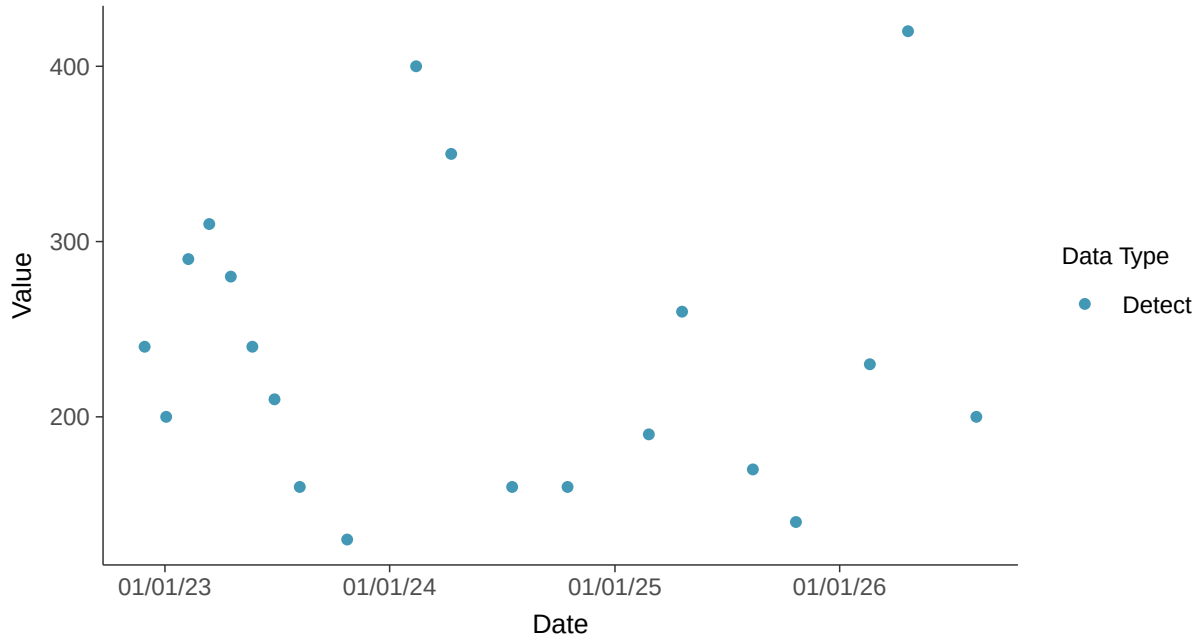

Trend Regression: Piecewise Linear-Linear
Boron, MW-01R (mg/L)
160
120
80
40
Value
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect

Appendix III: Calcium, MW-01R

ID: 11_2_3_107

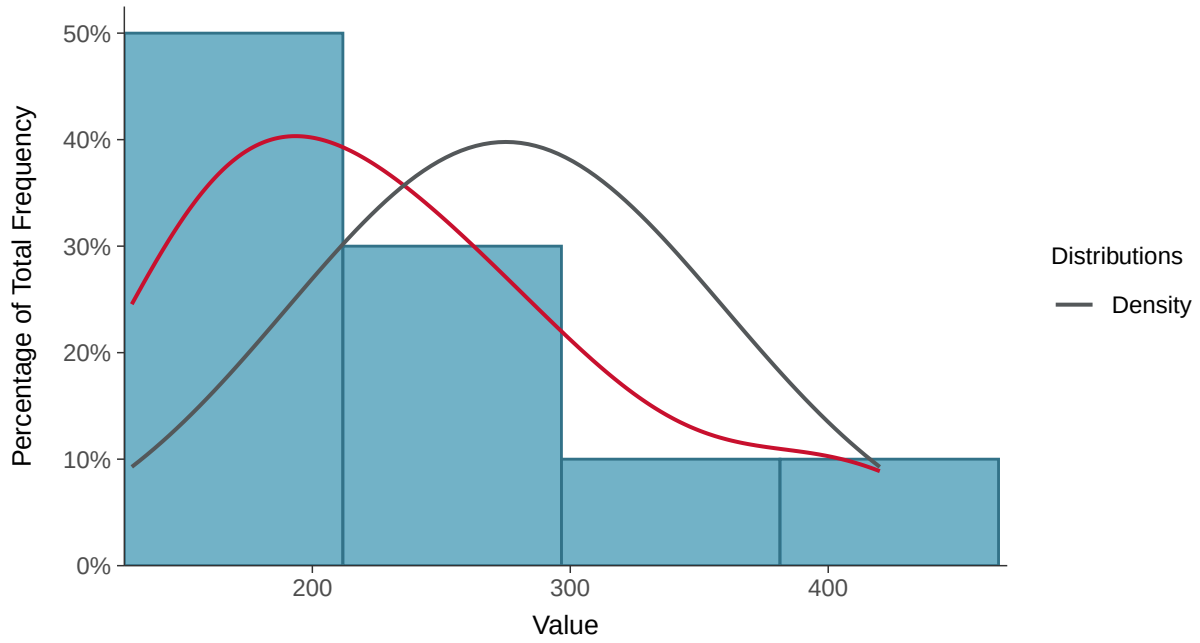
Scatter Plot

Calcium, MW-01R (mg/L)



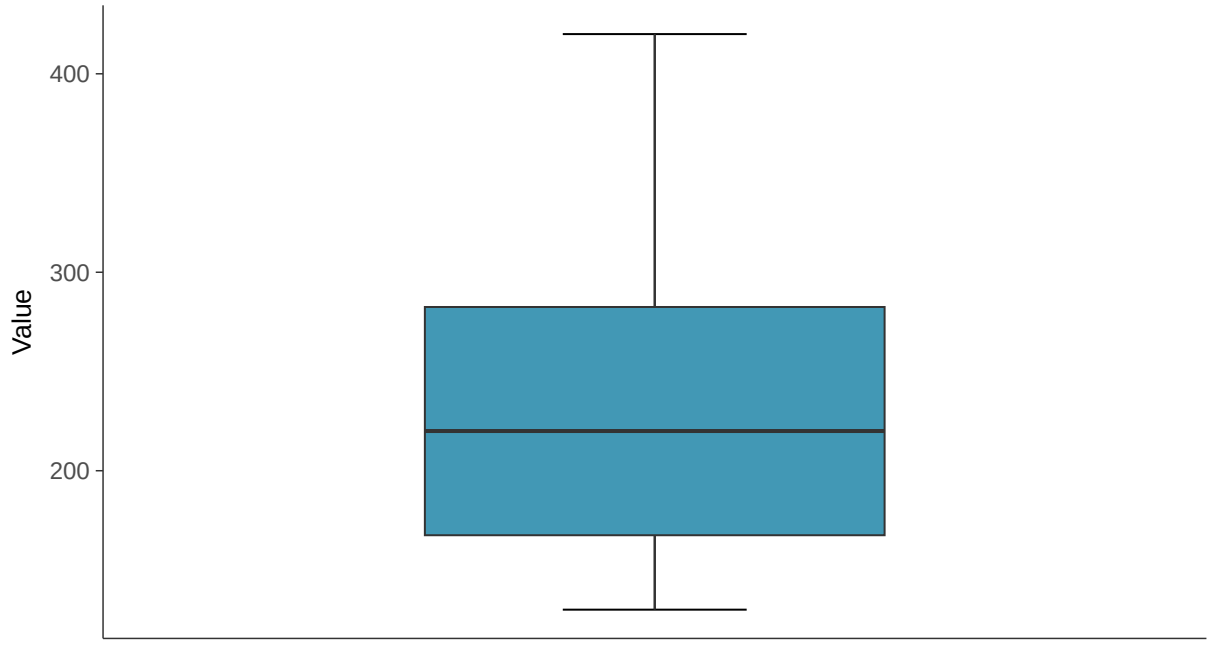
Histogram

Calcium, MW-01R (mg/L)



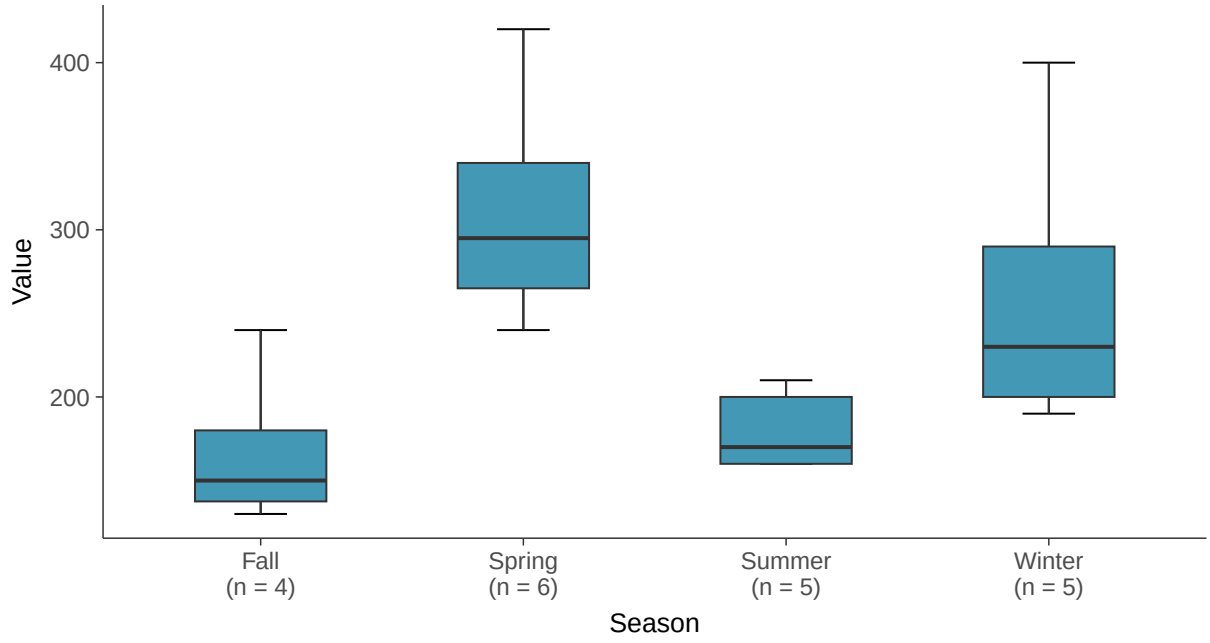
Boxplot

Calcium, MW-01R (mg/L)



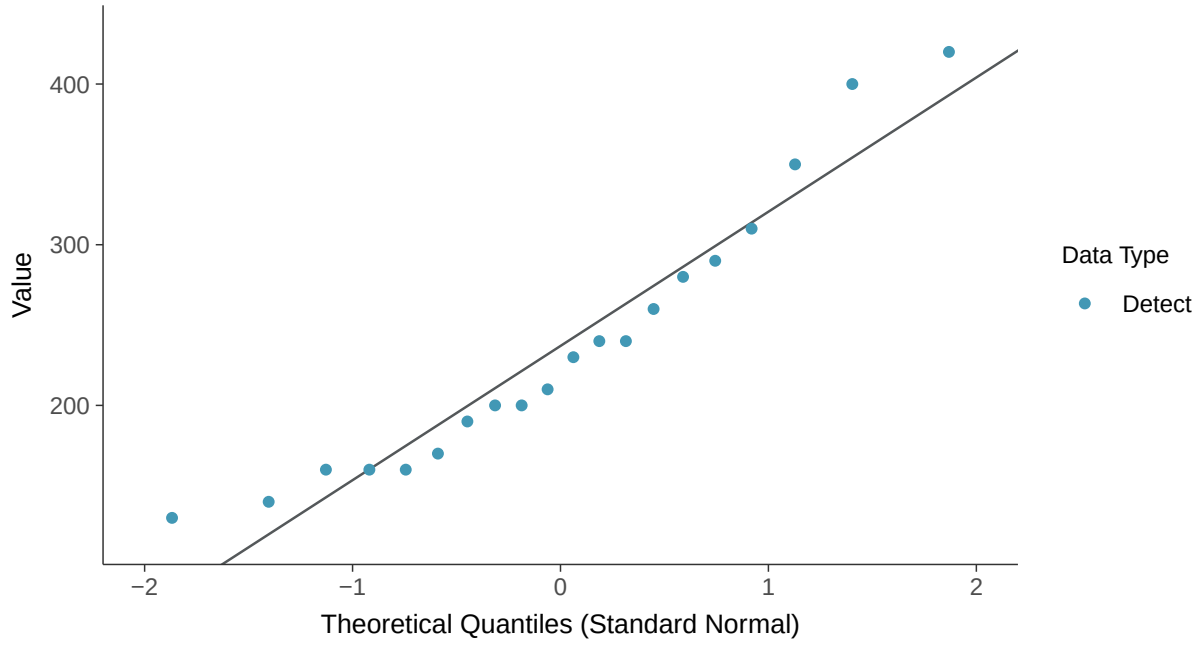
Boxplot by Season

Calcium, MW-01R (mg/L)



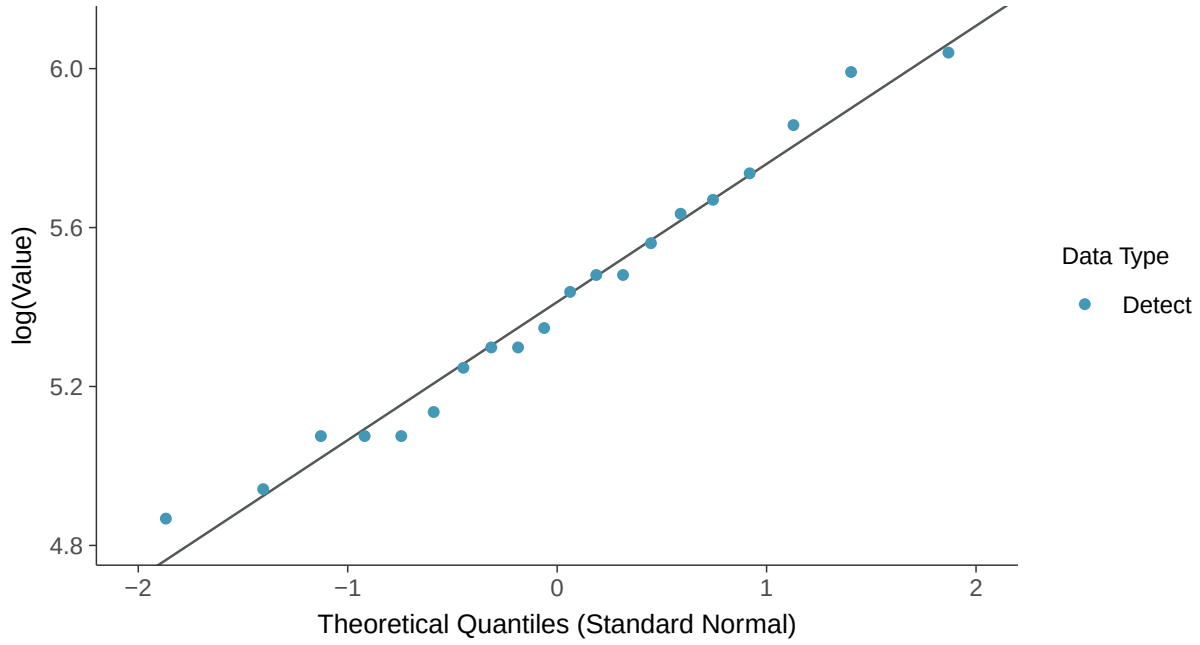
Normal Q-Q plot

Calcium, MW-01R (mg/L)



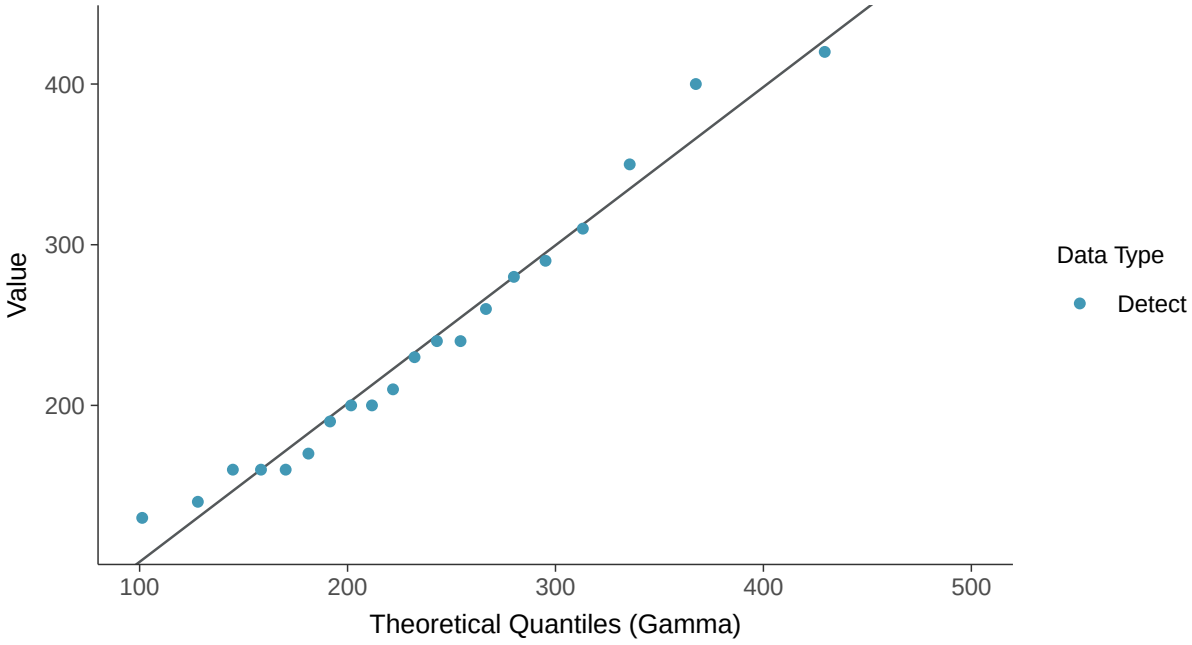
Lognormal Q-Q plot

Calcium, MW-01R (mg/L)



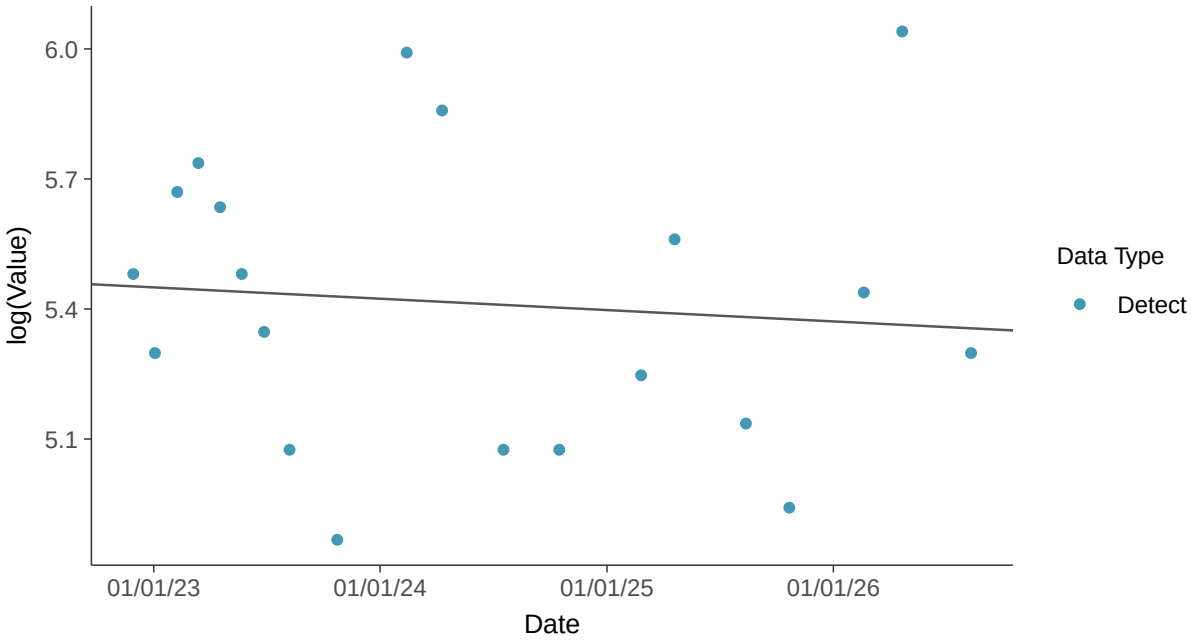
Gamma Q-Q plot

Calcium, MW-01R (mg/L)



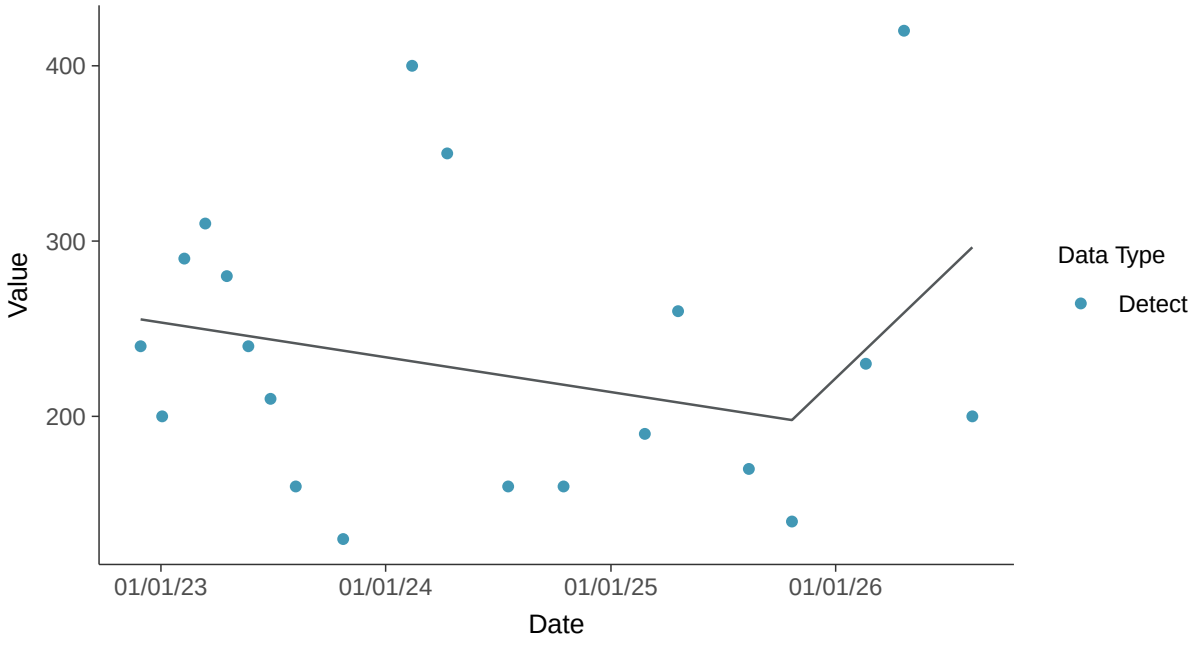
Trend Regression: Lognormal MLE

Calcium, MW-01R (mg/L)



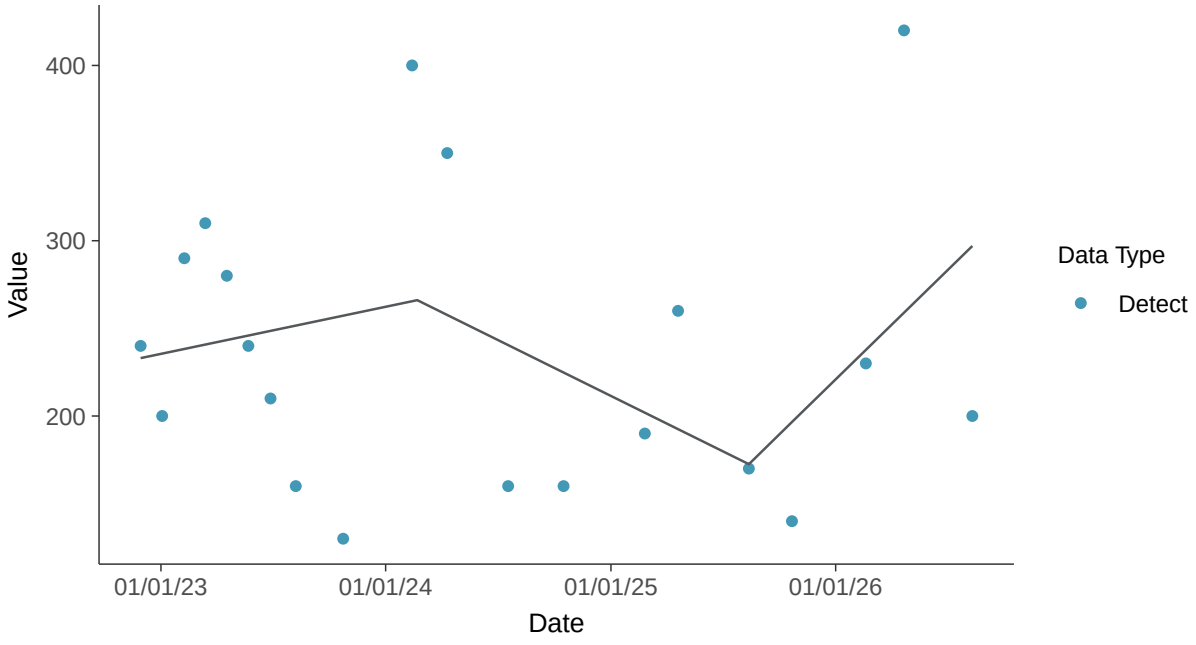
Trend Regression: Piecewise Linear-Linear

Calcium, MW-01R (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Calcium, MW-01R (mg/L)

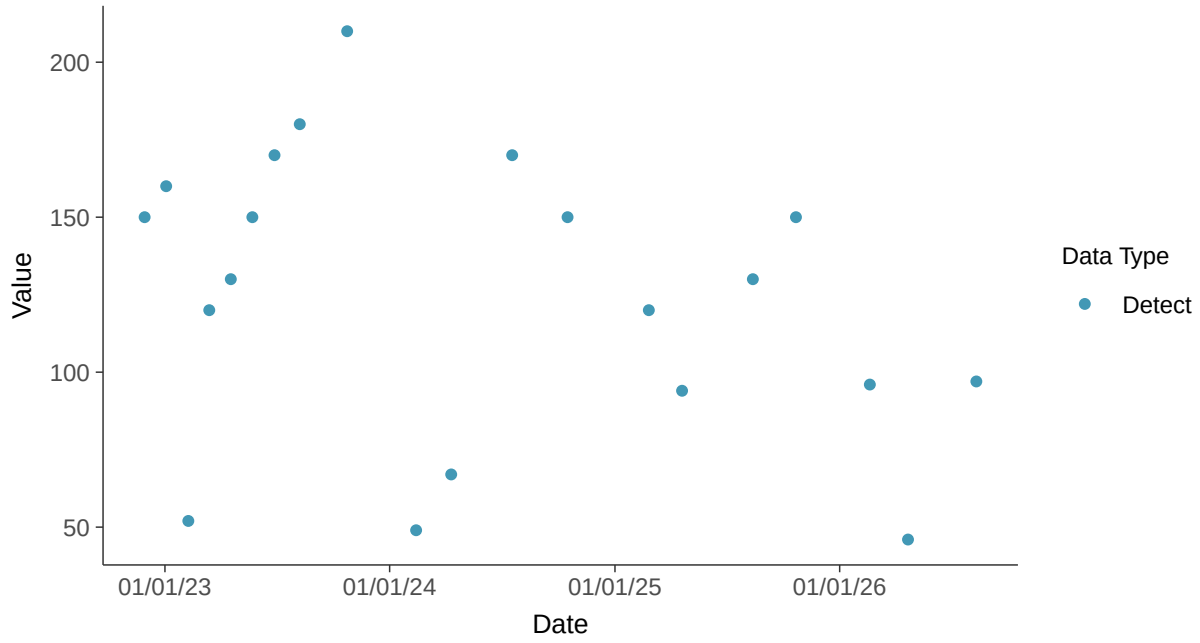


Appendix III: Chloride (as Cl), MW-01R

ID: 11_2_3_108

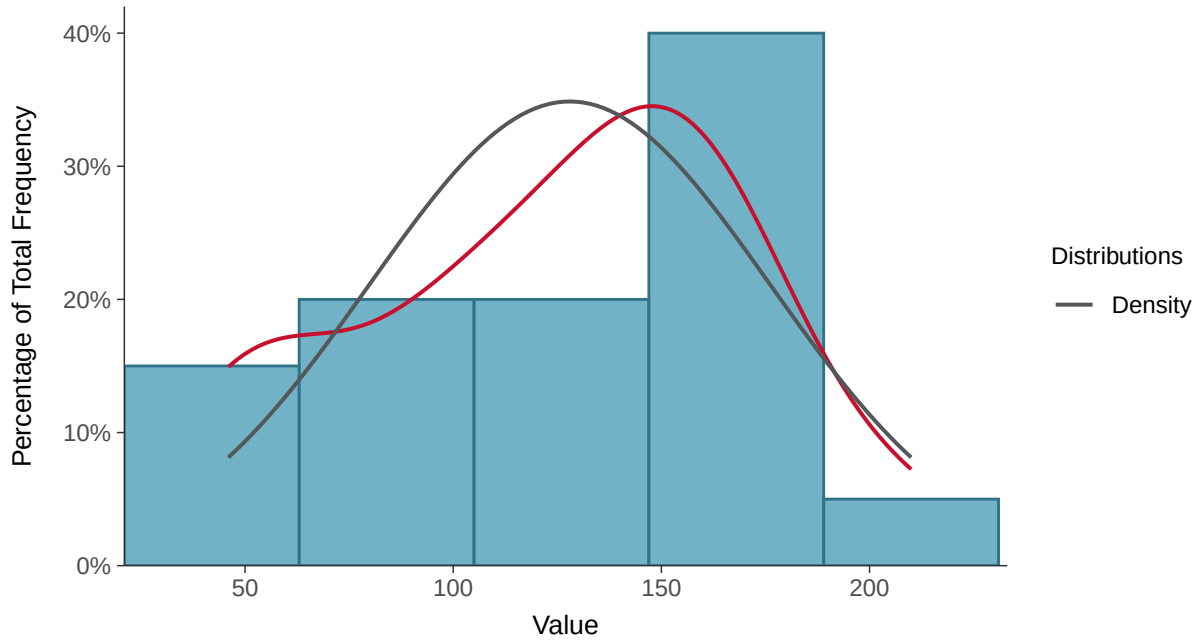
Scatter Plot

Chloride (as Cl), MW-01R (mg/L)



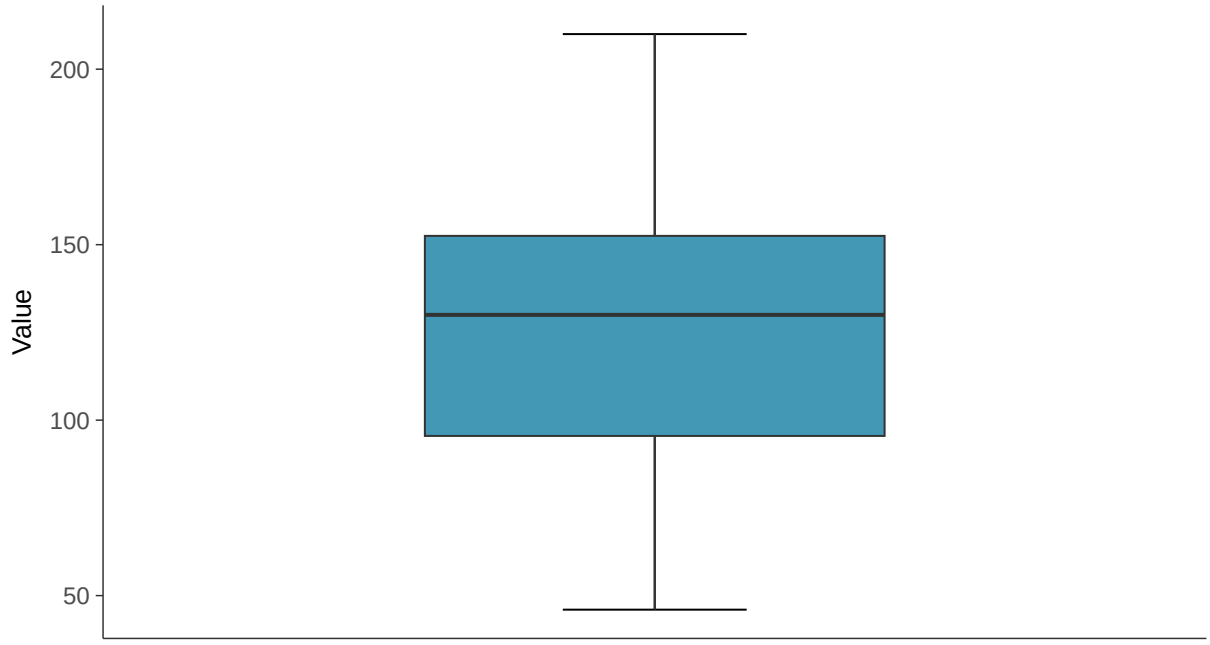
Histogram

Chloride (as Cl), MW-01R (mg/L)



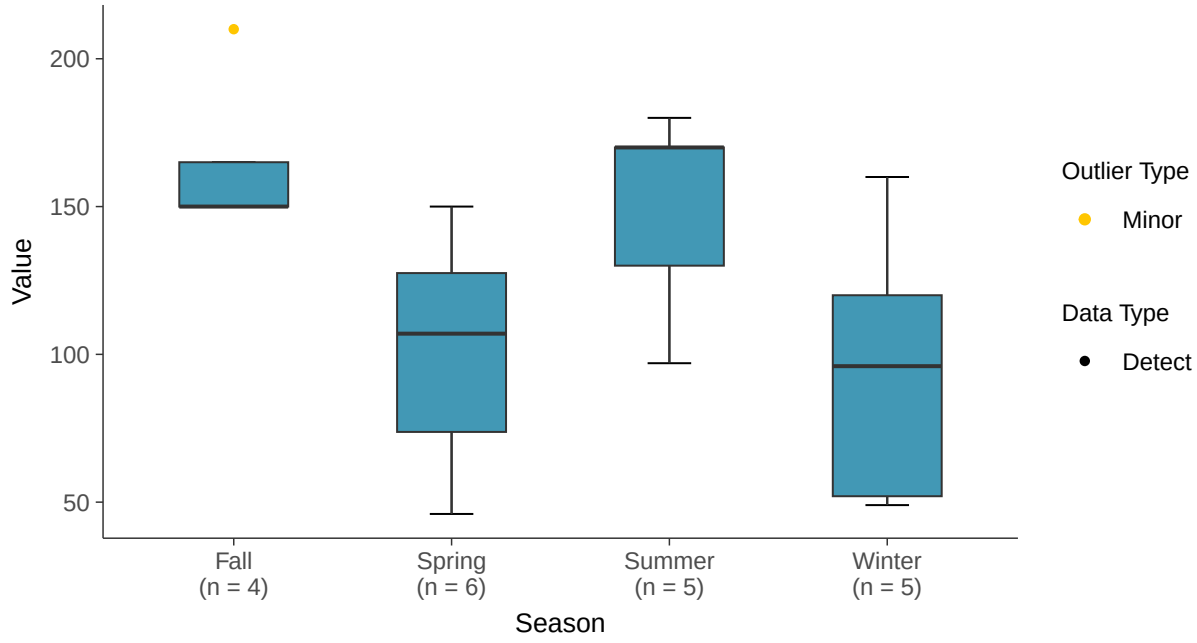
Boxplot

Chloride (as Cl), MW-01R (mg/L)



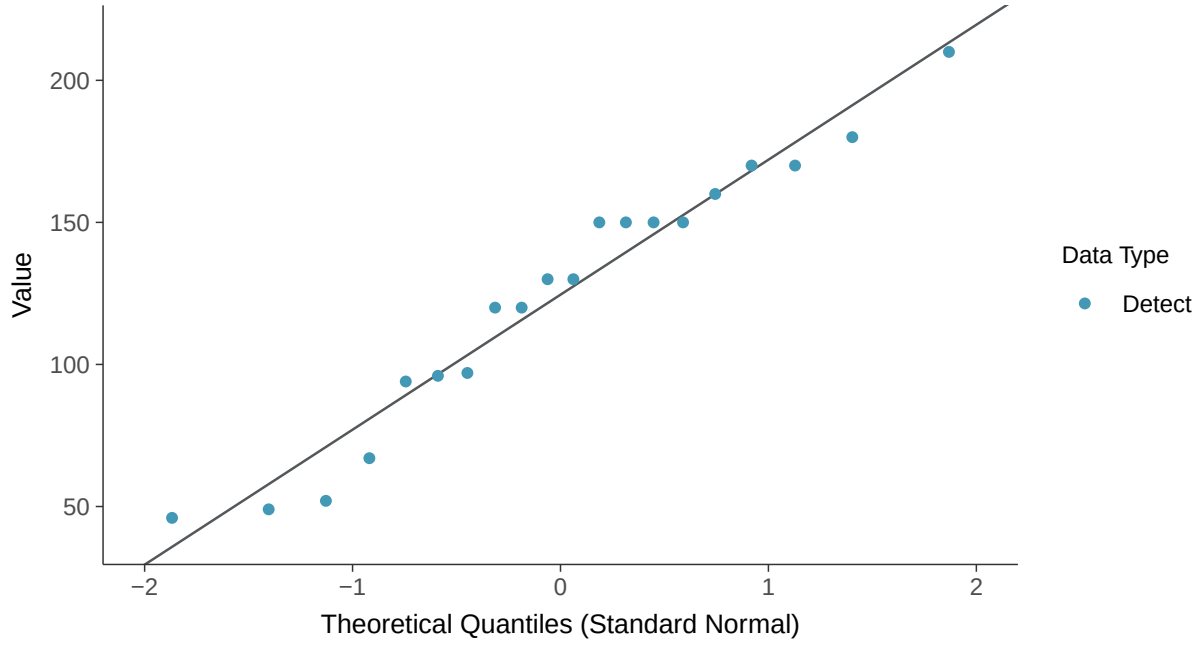
Boxplot by Season

Chloride (as Cl), MW-01R (mg/L)



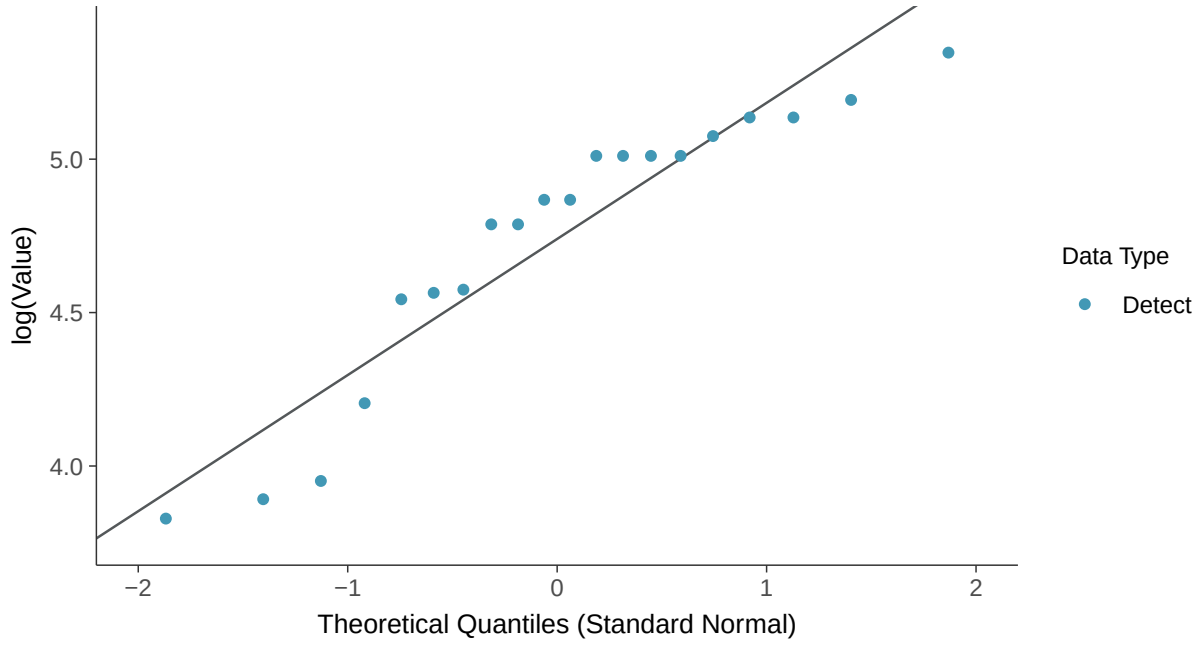
Normal Q-Q plot

Chloride (as Cl), MW-01R (mg/L)



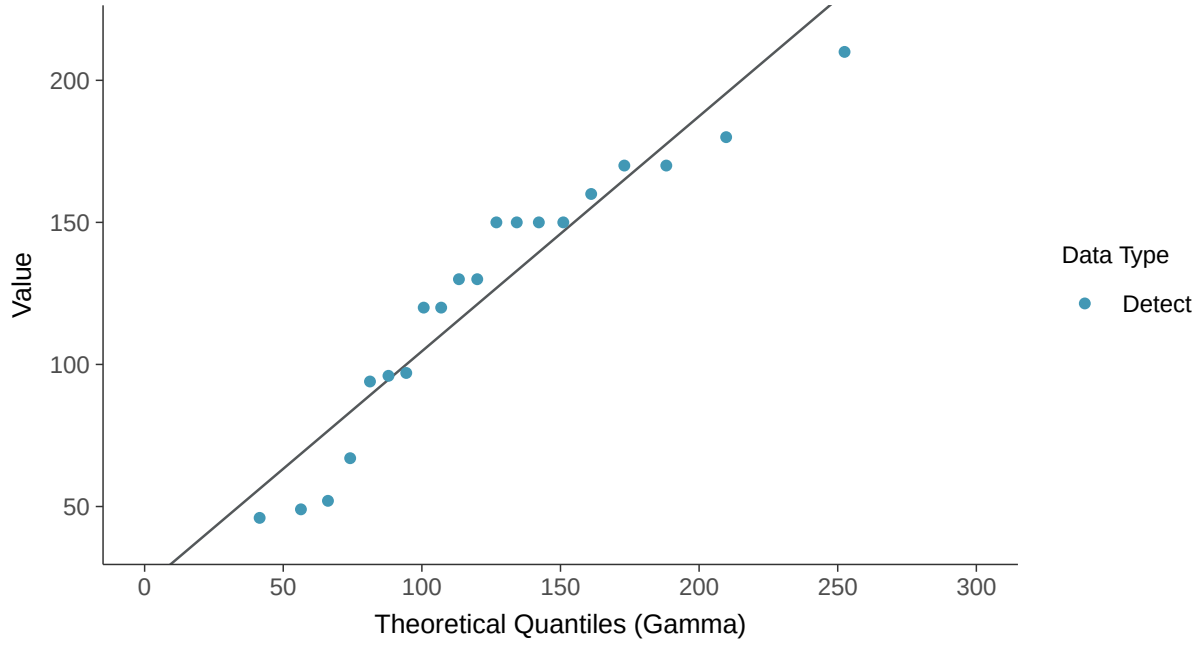
Lognormal Q-Q plot

Chloride (as Cl), MW-01R (mg/L)



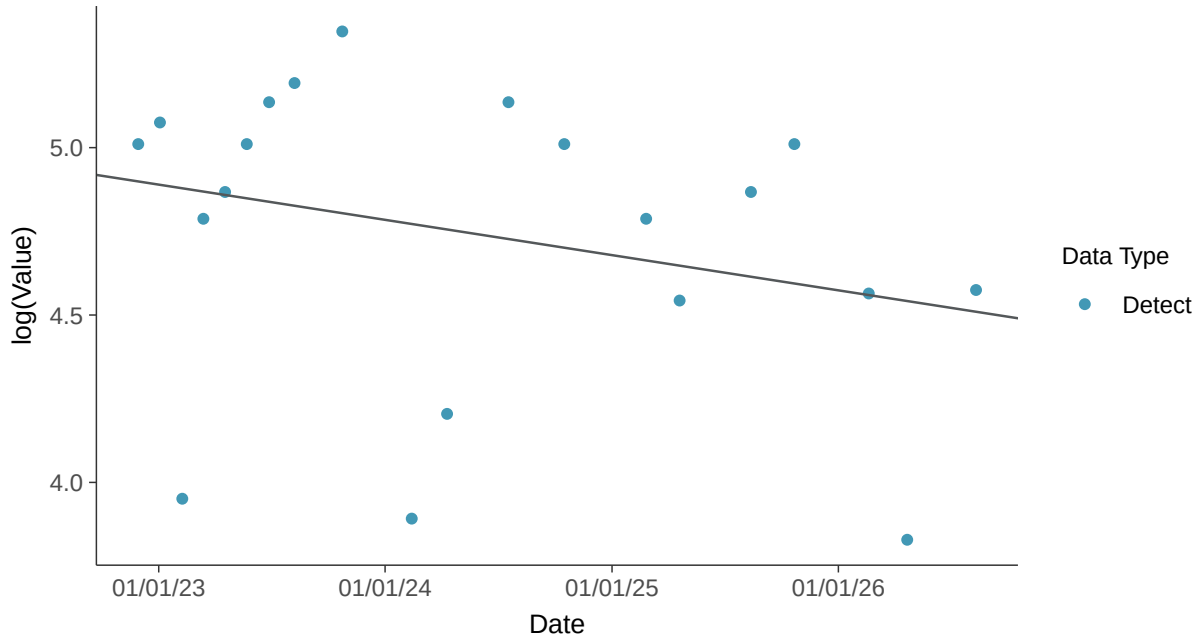
Gamma Q-Q plot

Chloride (as Cl), MW-01R (mg/L)



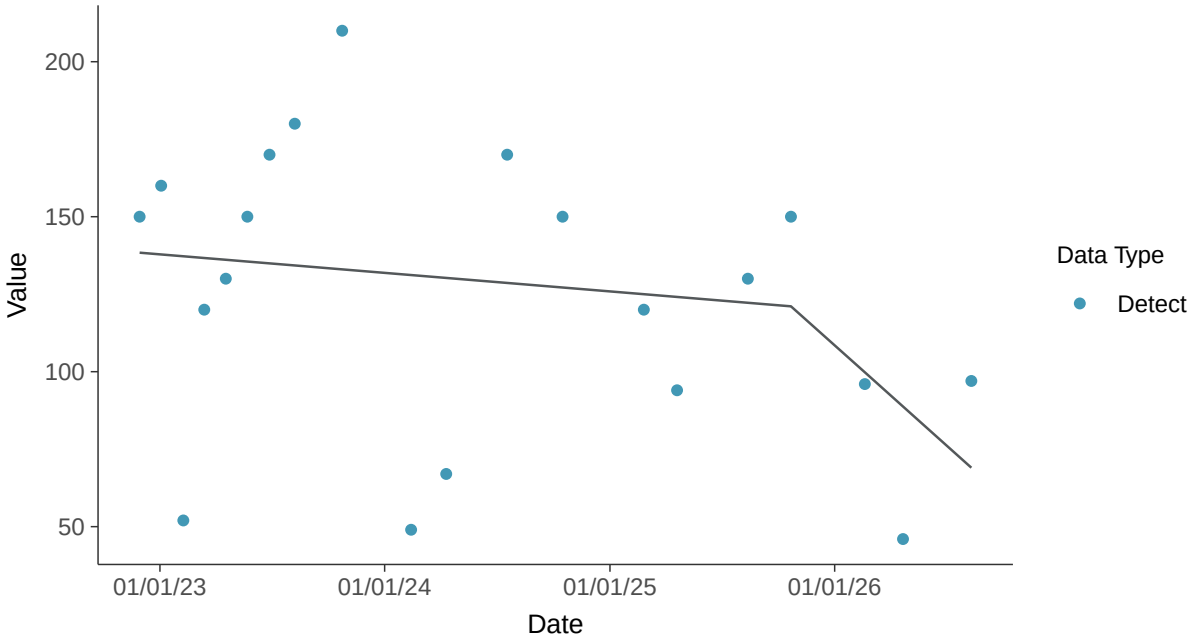
Trend Regression: Lognormal MLE

Chloride (as Cl), MW-01R (mg/L)



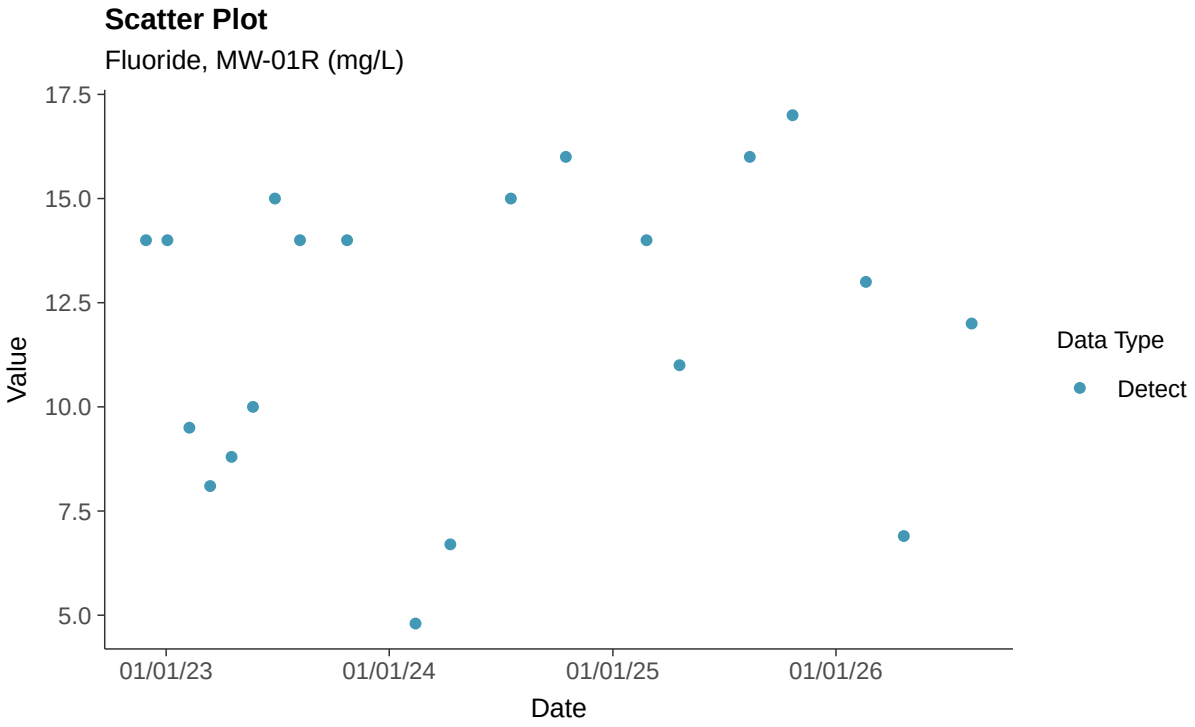
Trend Regression: Piecewise Linear-Linear

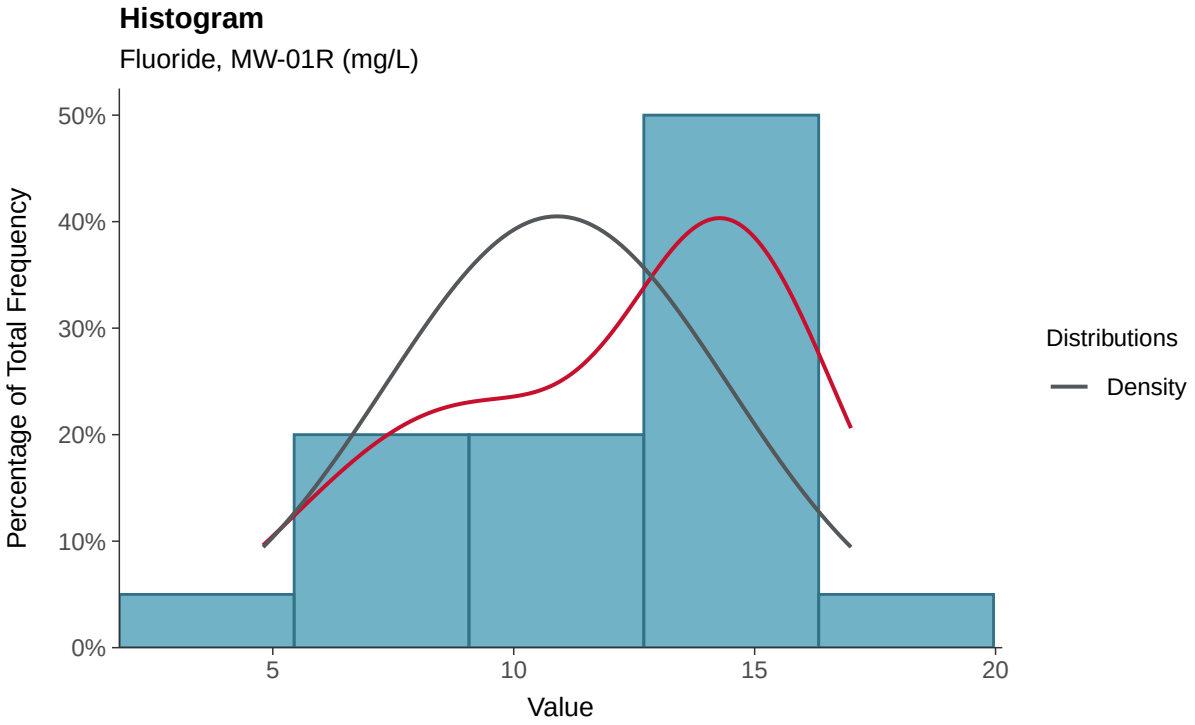
Chloride (as Cl), MW-01R (mg/L)



Appendix III: Fluoride, MW-01R

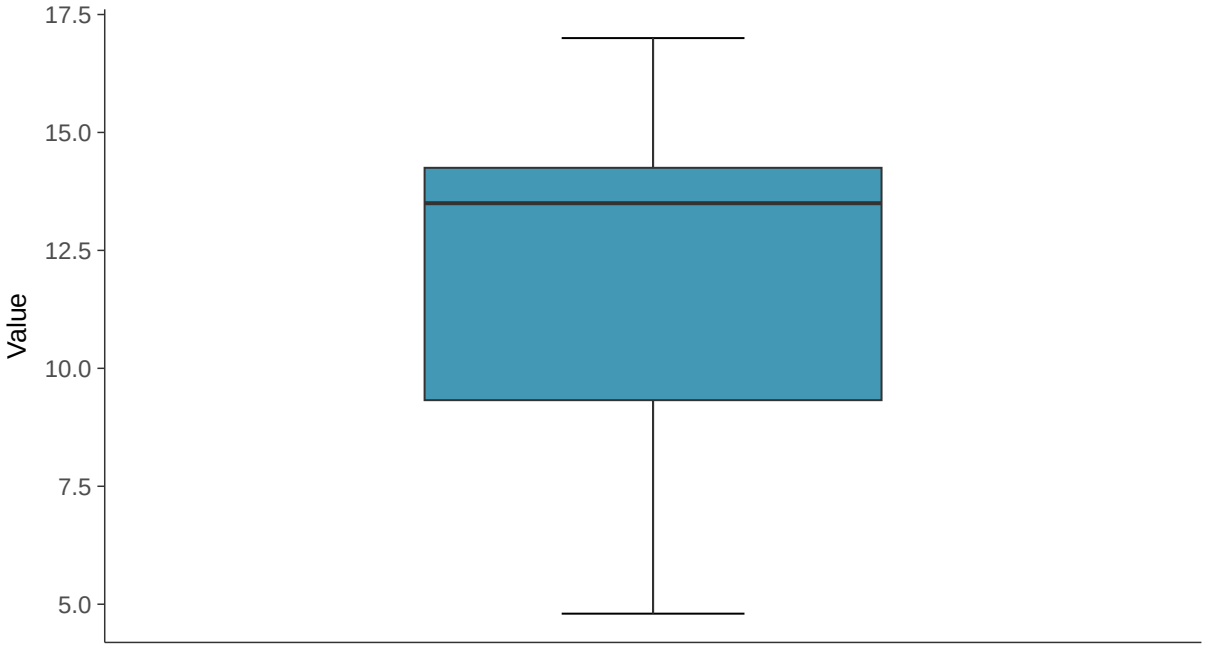
ID: 11_2_3_112





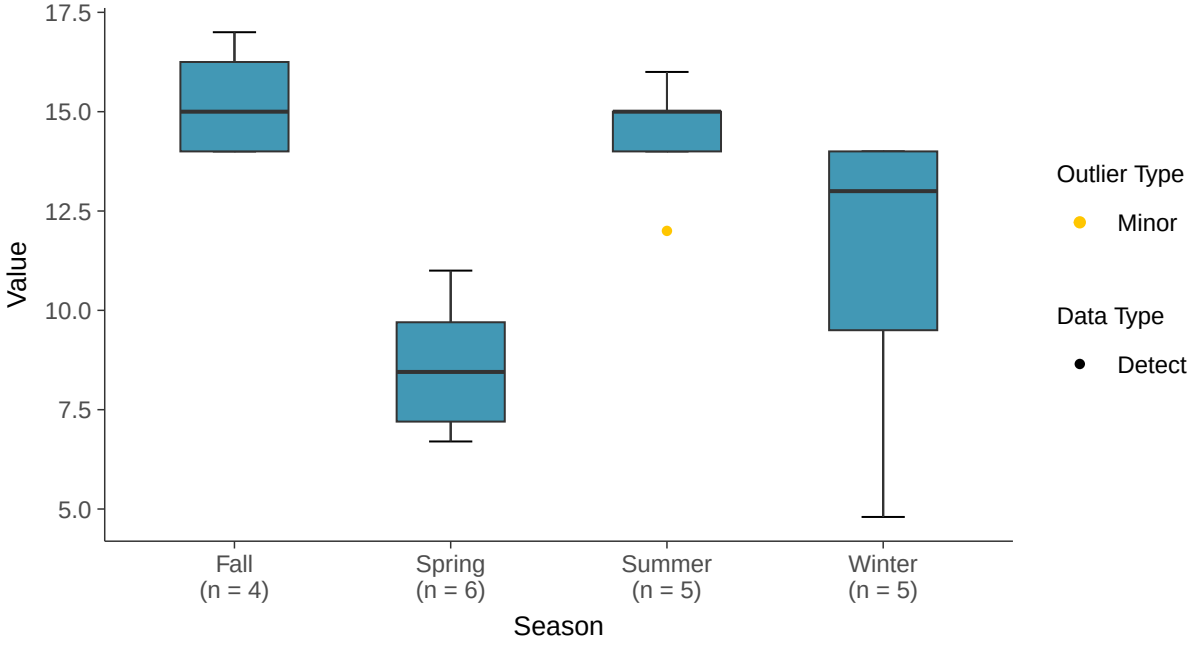
Boxplot

Fluoride, MW-01R (mg/L)



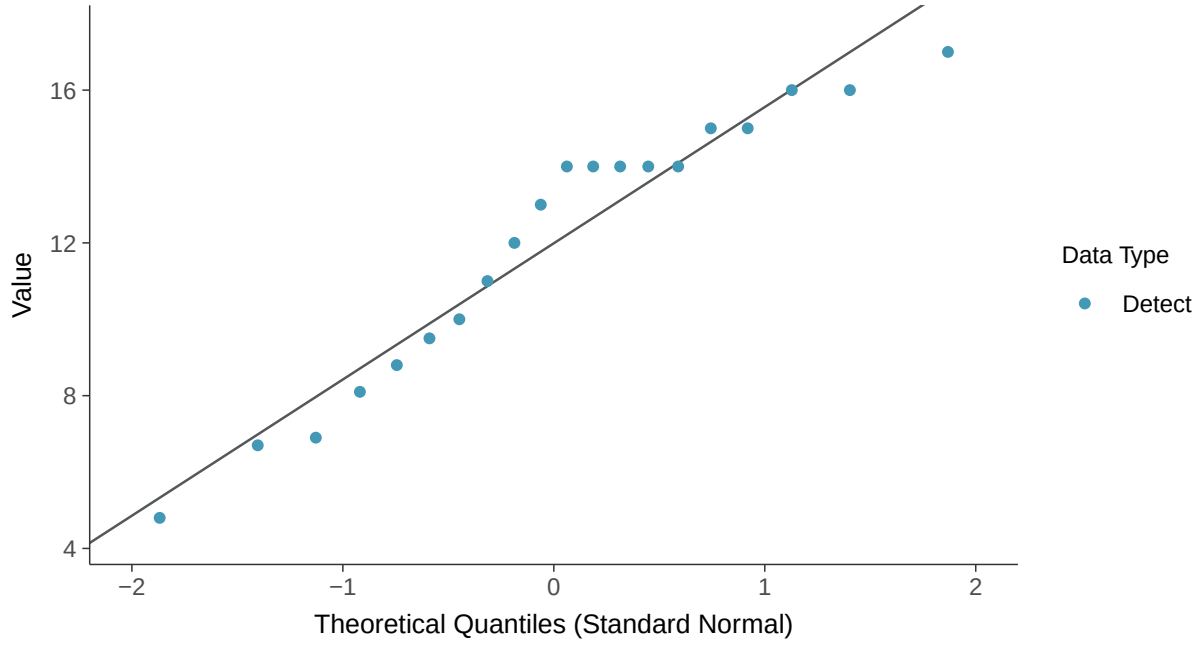
Boxplot by Season

Fluoride, MW-01R (mg/L)



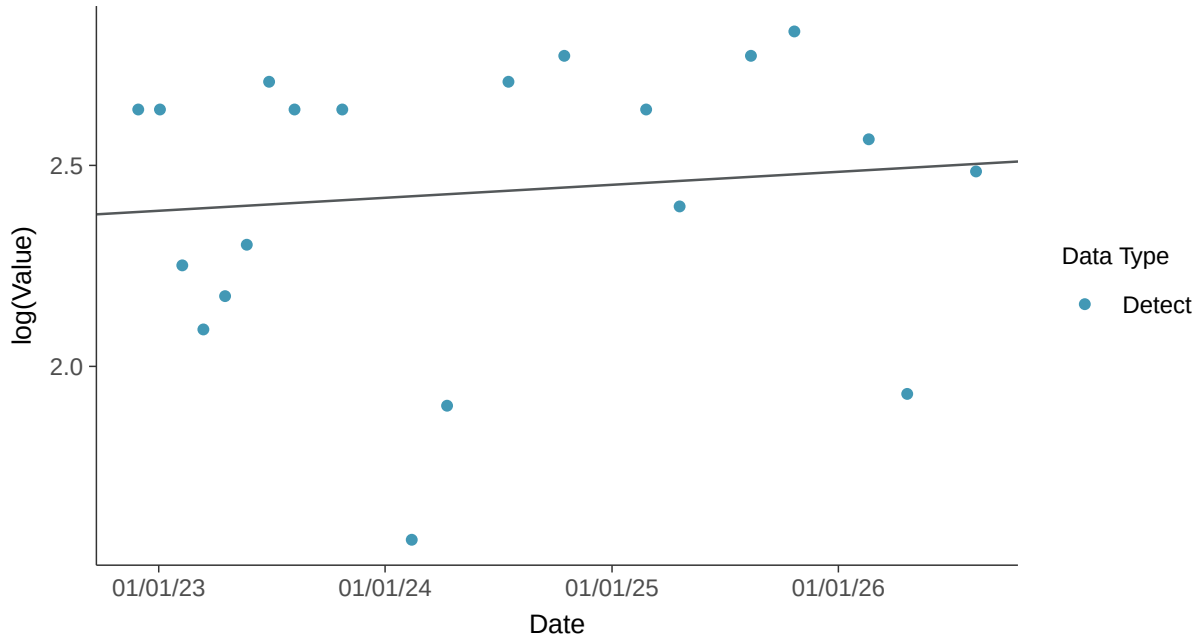
Normal Q-Q plot

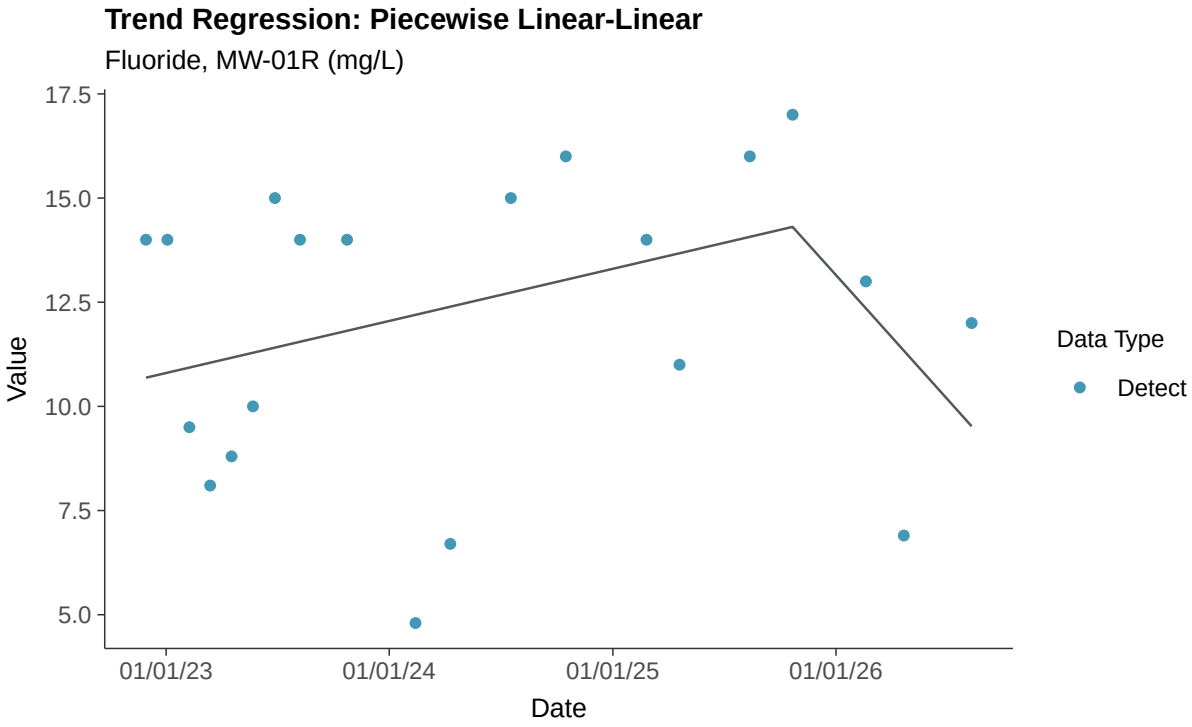
Fluoride, MW-01R (mg/L)



Trend Regression: Lognormal MLE

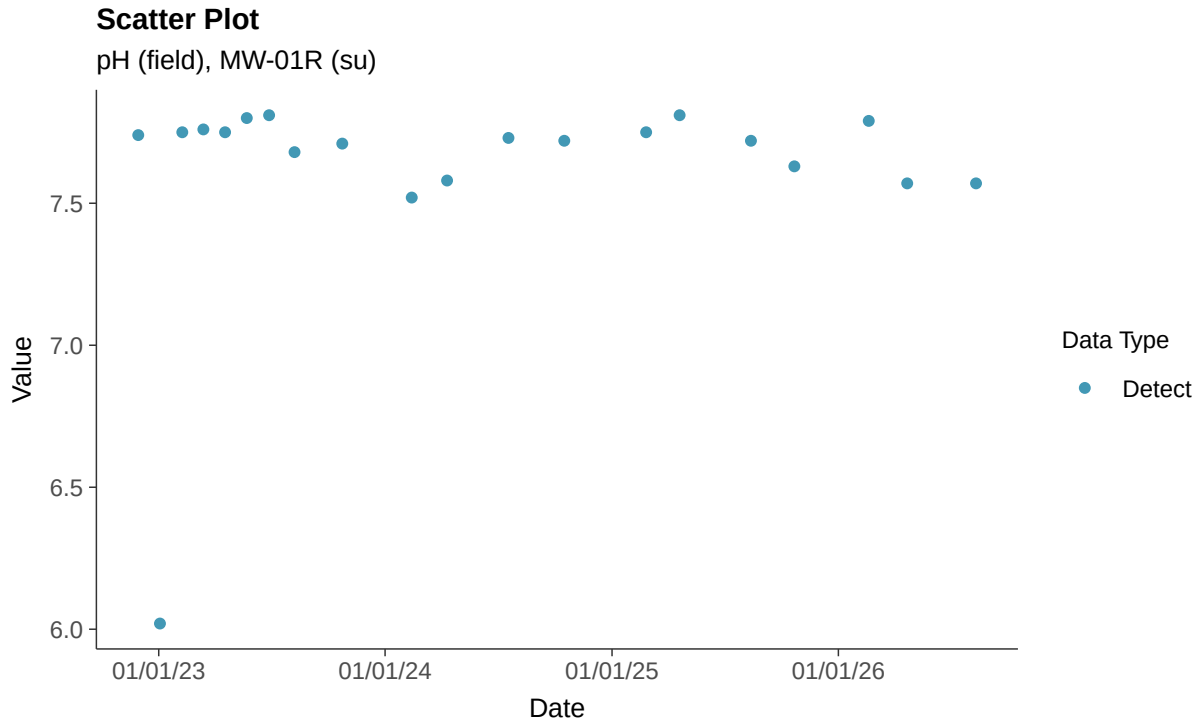
Fluoride, MW-01R (mg/L)

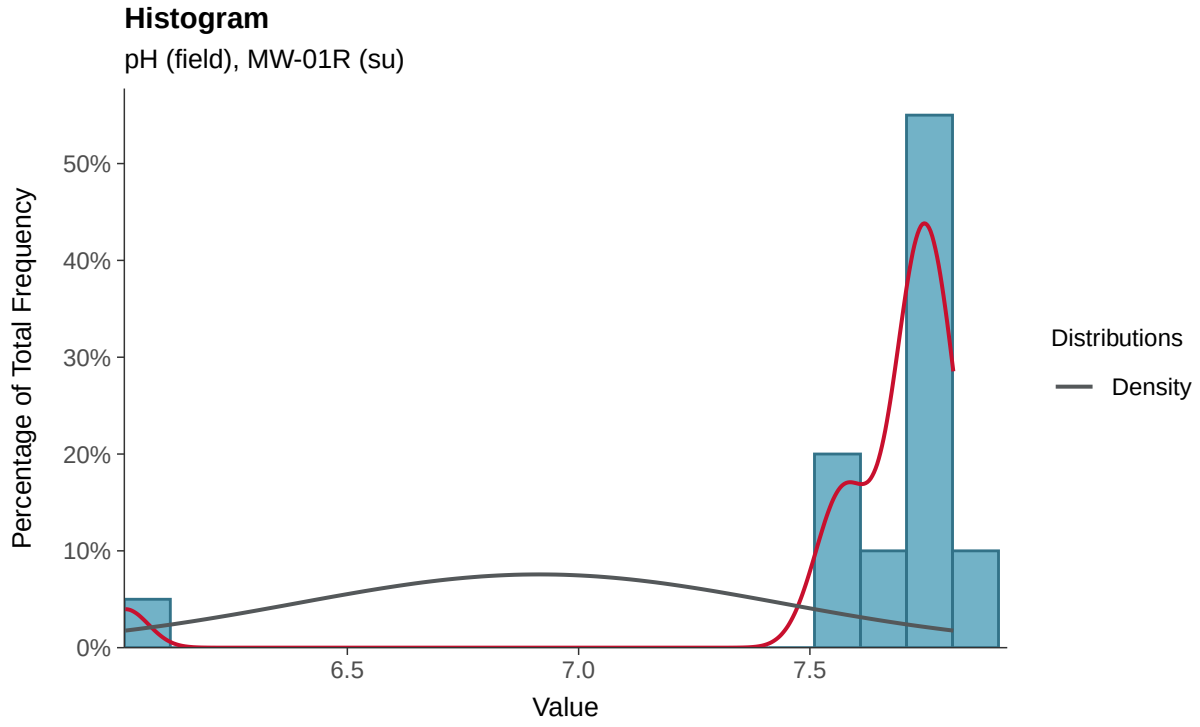



Trend Regression: Piecewise Linear-Linear
Fluoride, MW-01R (mg/L)
17.5
15.0
12.5
10.0
7.5
5.0
Value
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect

Appendix III: pH (field), MW-01R

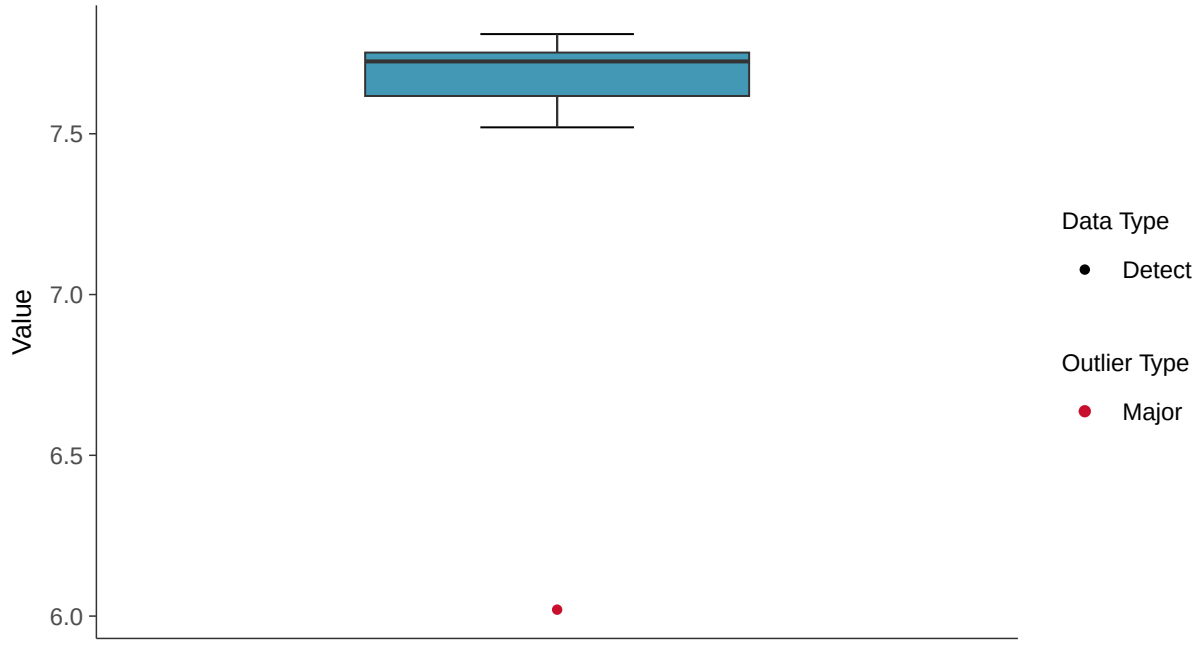
ID: 11_2_3_120





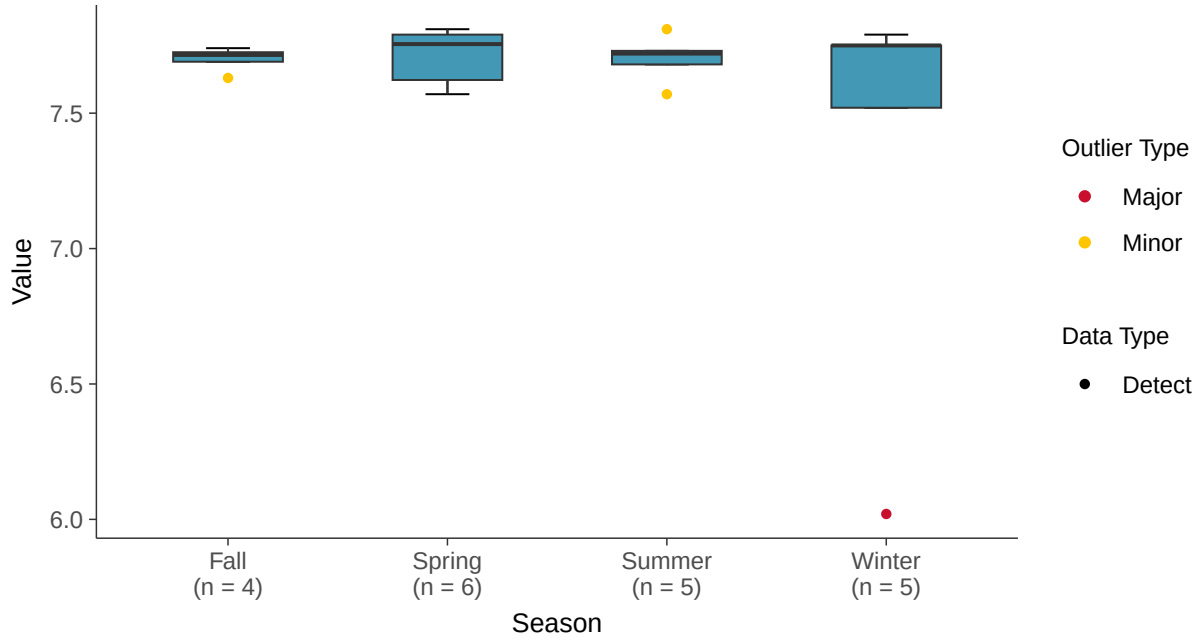
Boxplot

pH (field), MW-01R (su)



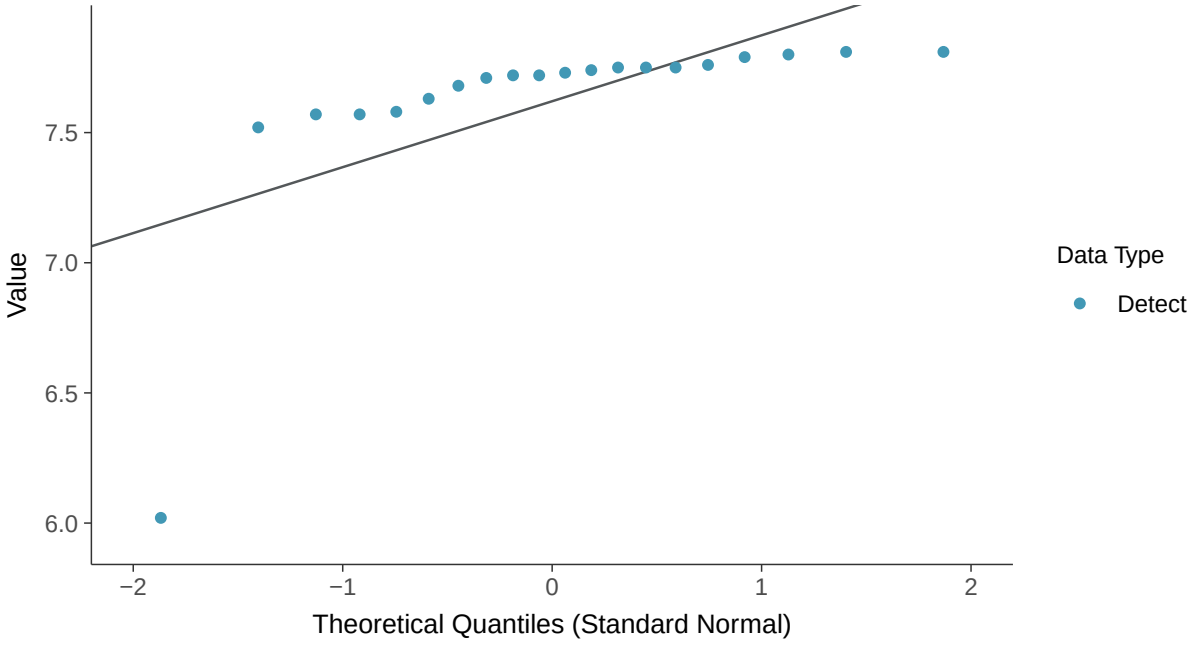
Boxplot by Season

pH (field), MW-01R (su)



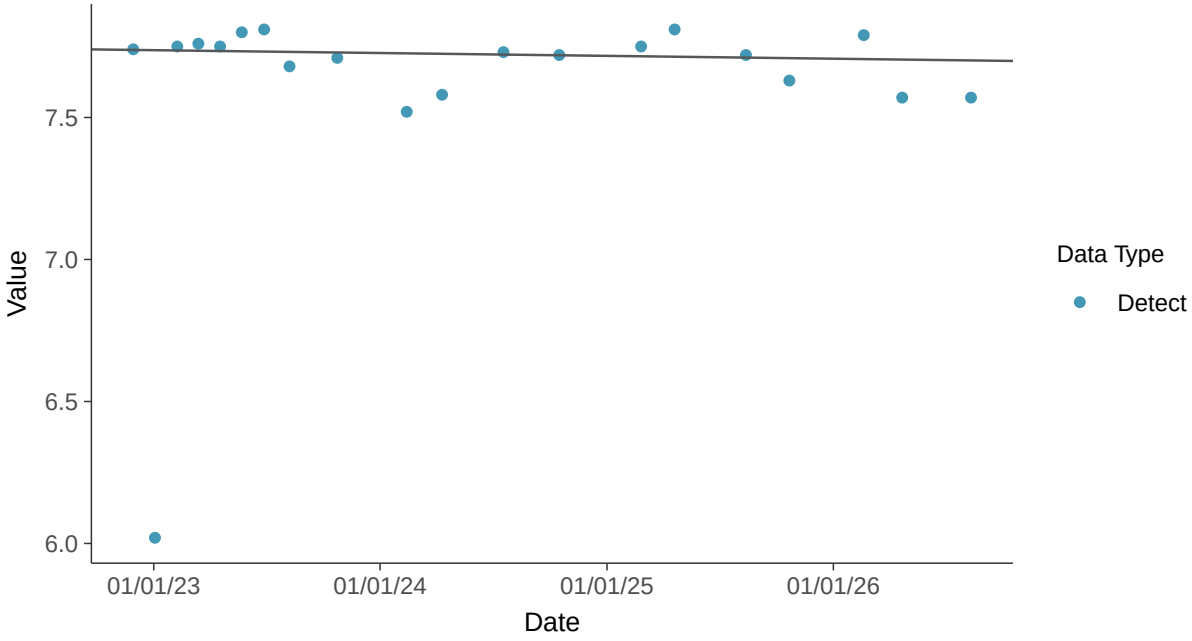
Normal Q-Q plot

pH (field), MW-01R (su)



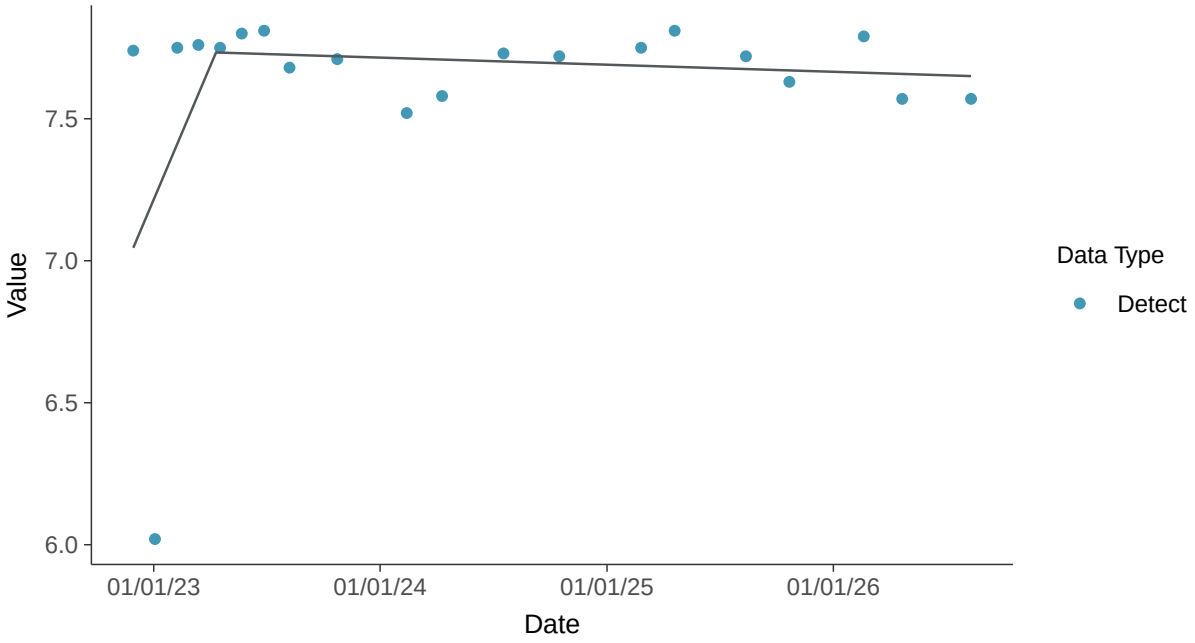
Trend Regression: Mann-Kendall/Theil-Sen Estimate

pH (field), MW-01R (su)



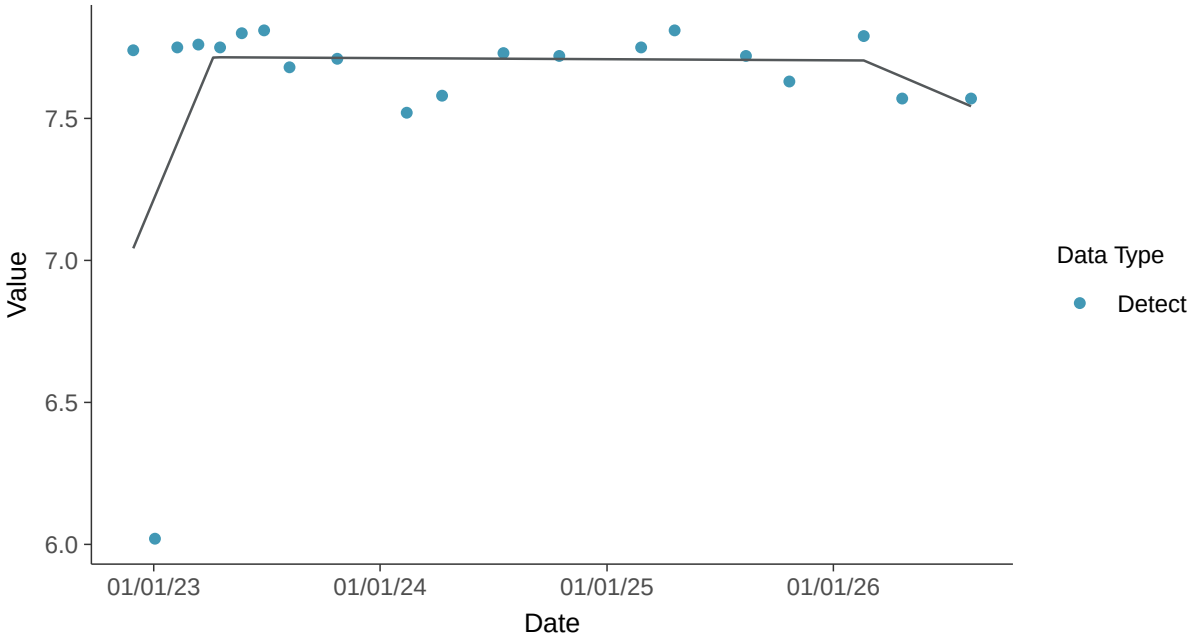
Trend Regression: Piecewise Linear-Linear

pH (field), MW-01R (su)



Trend Regression: Piecewise Linear-Linear-Linear

pH (field), MW-01R (su)

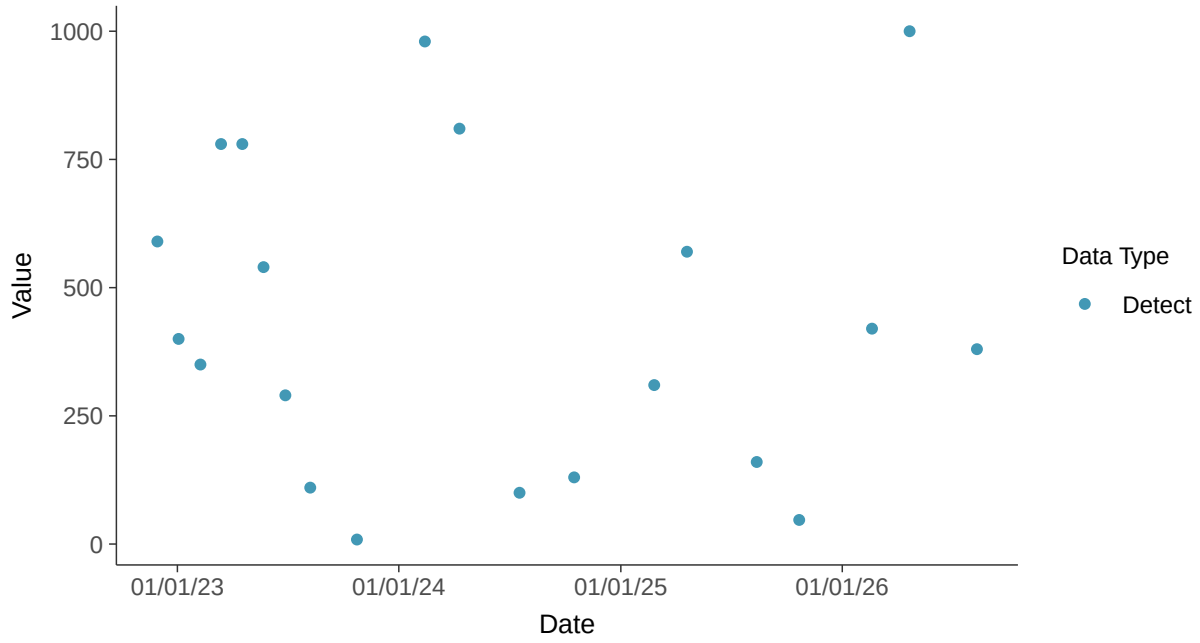


Appendix III: Sulfate (as SO4), MW-01R

ID: 11_2_3_124

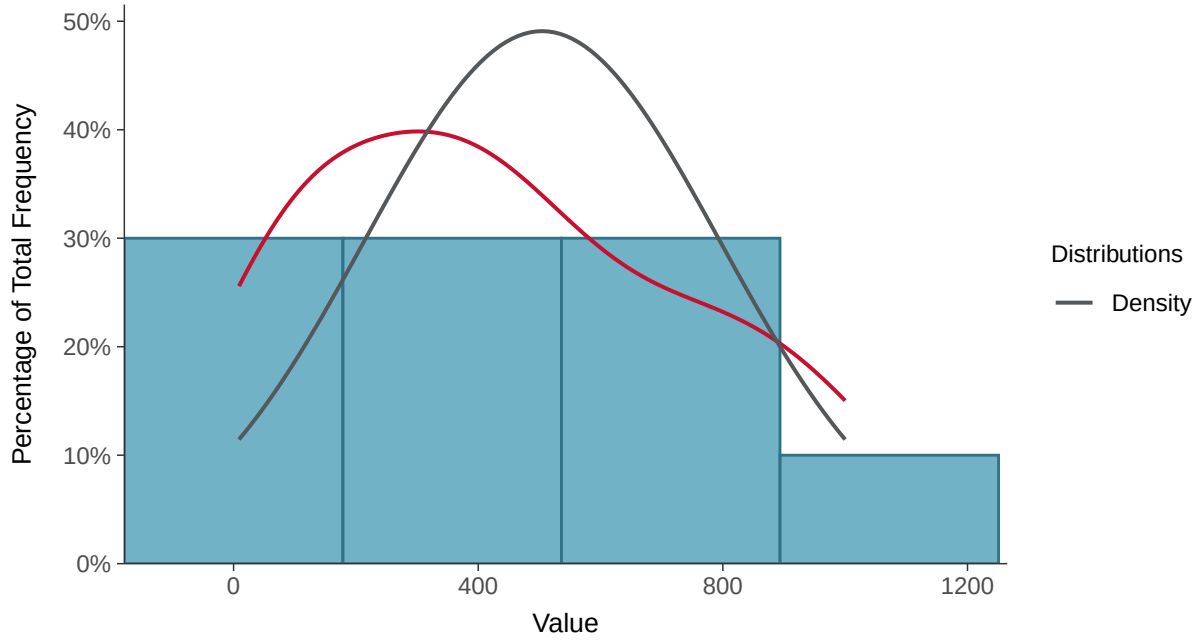
Scatter Plot

Sulfate (as SO4), MW-01R (mg/L)



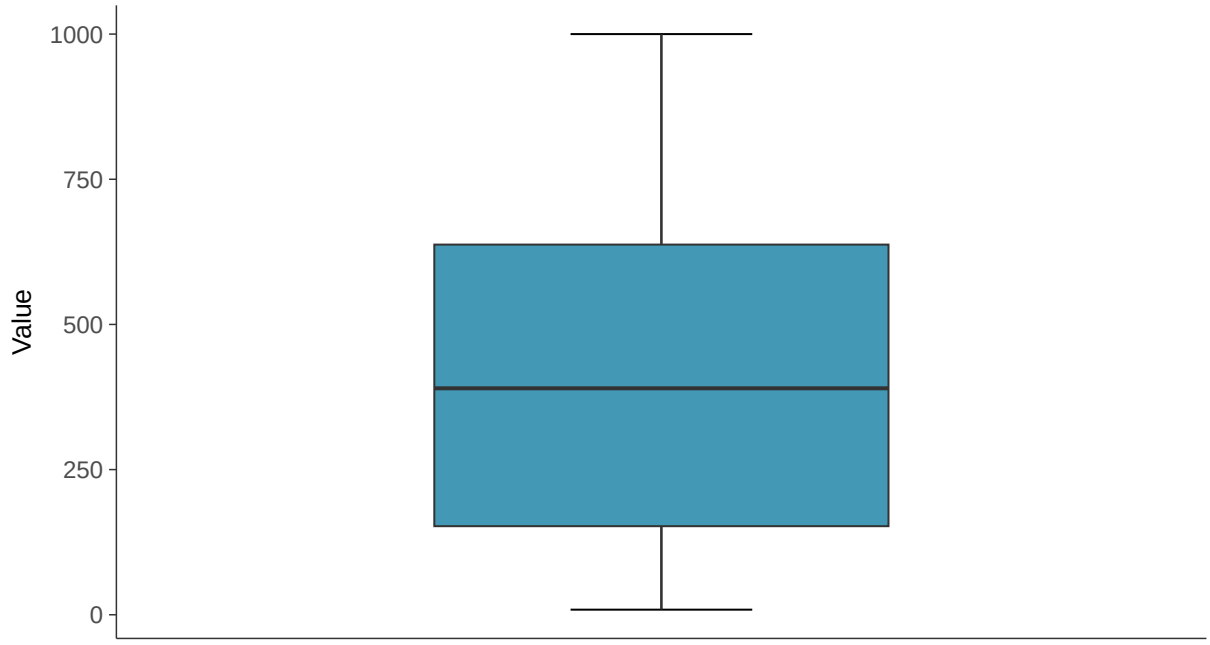
Histogram

Sulfate (as SO4), MW-01R (mg/L)



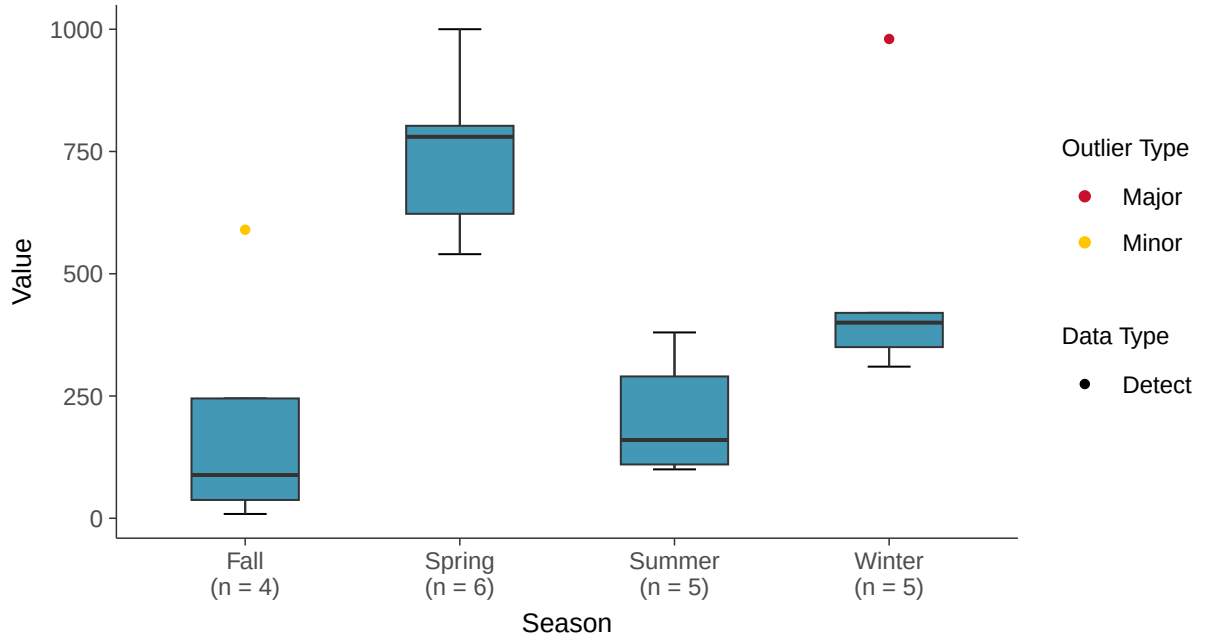
Boxplot

Sulfate (as SO4), MW-01R (mg/L)



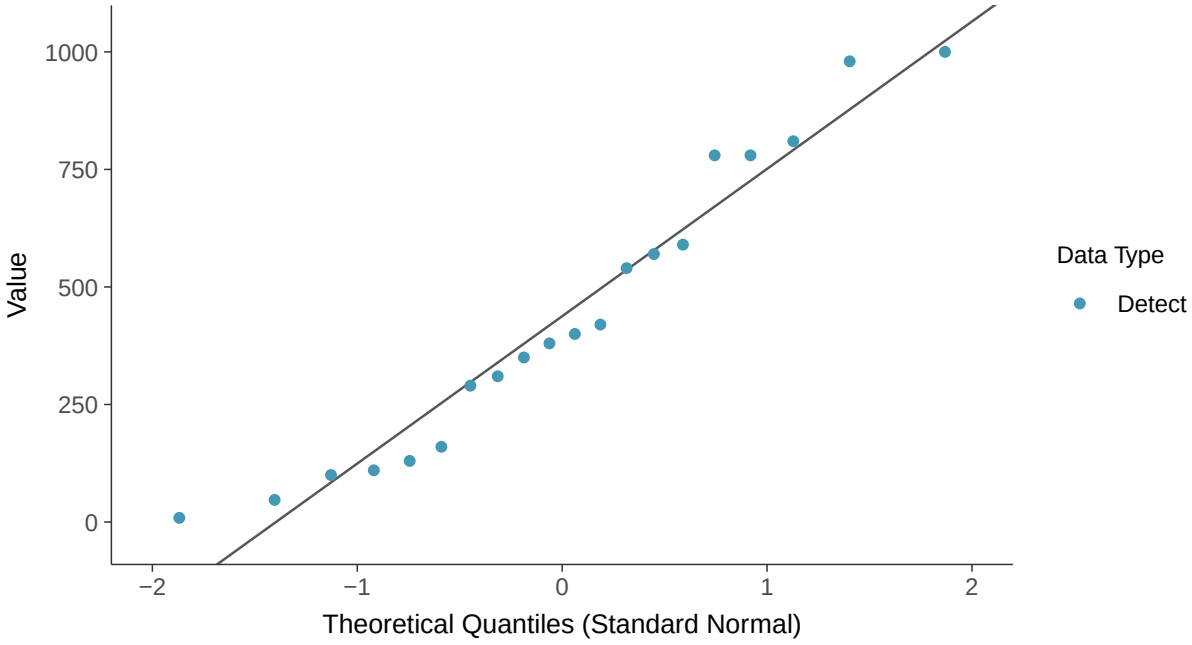
Boxplot by Season

Sulfate (as SO4), MW-01R (mg/L)



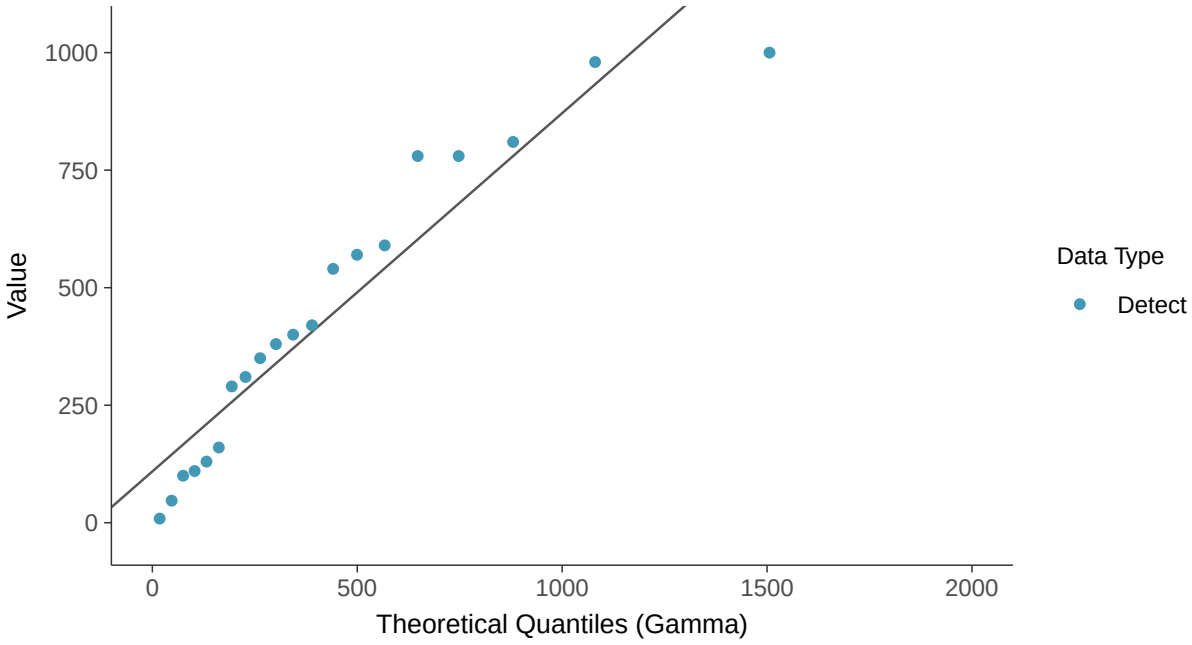
Normal Q-Q plot

Sulfate (as SO4), MW-01R (mg/L)



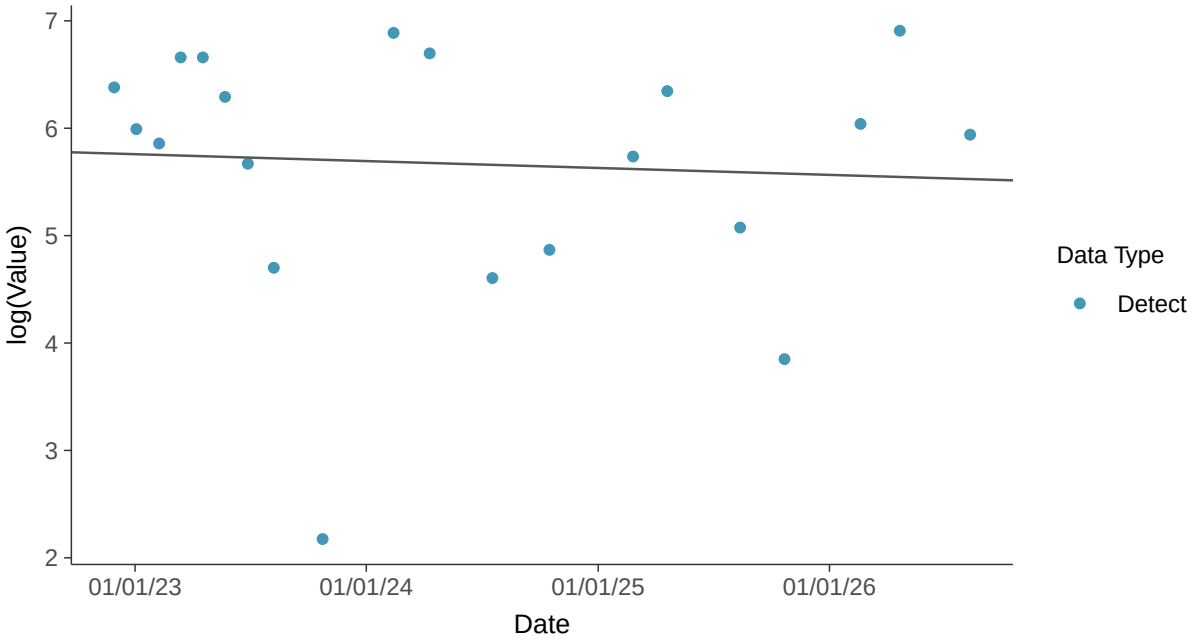
Gamma Q-Q plot

Sulfate (as SO4), MW-01R (mg/L)



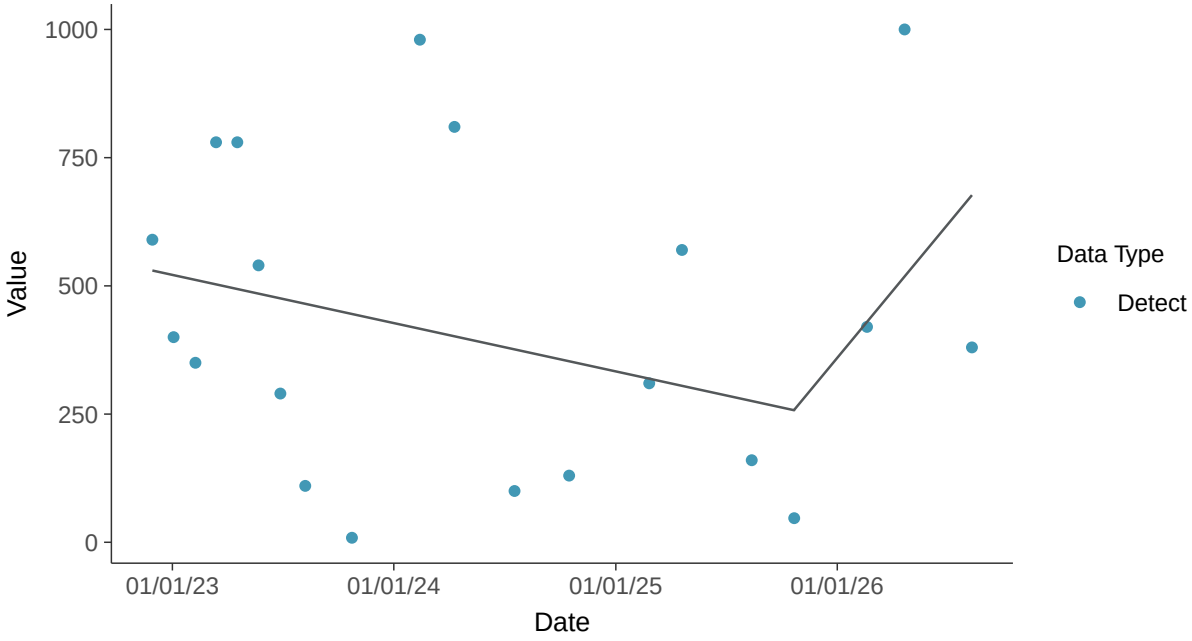
Trend Regression: Lognormal MLE

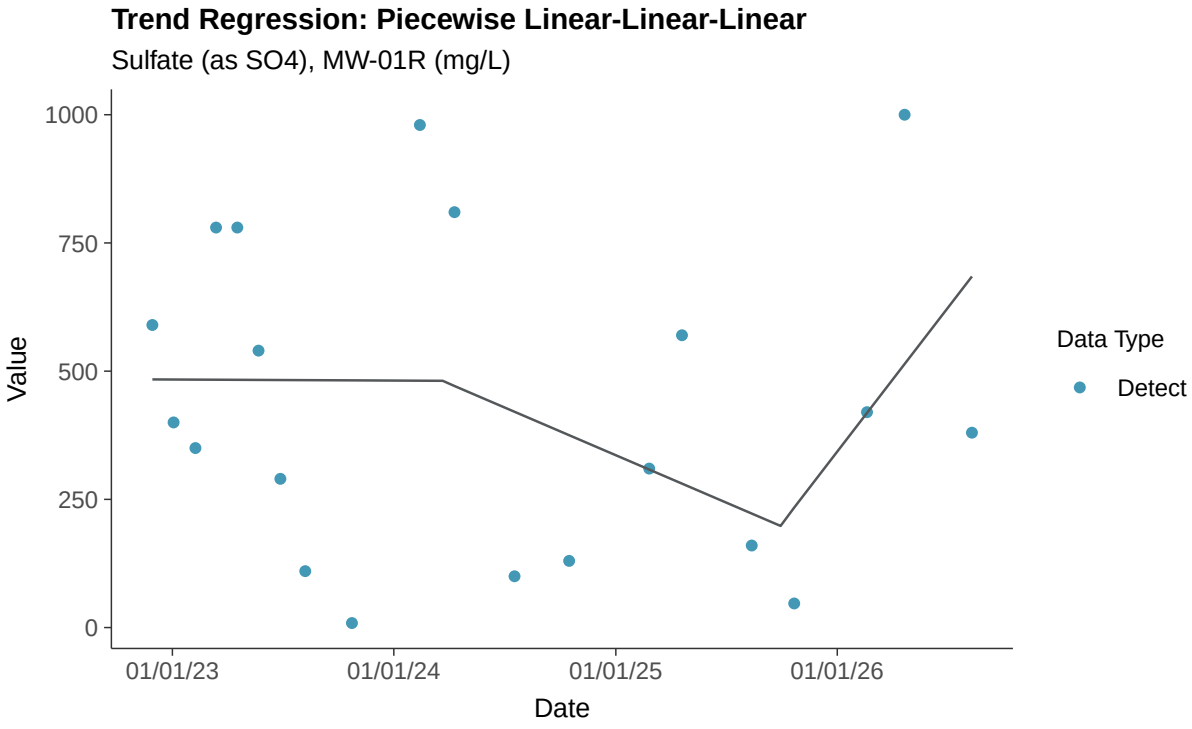
Sulfate (as SO4), MW-01R (mg/L)



Trend Regression: Piecewise Linear-Linear

Sulfate (as SO4), MW-01R (mg/L)



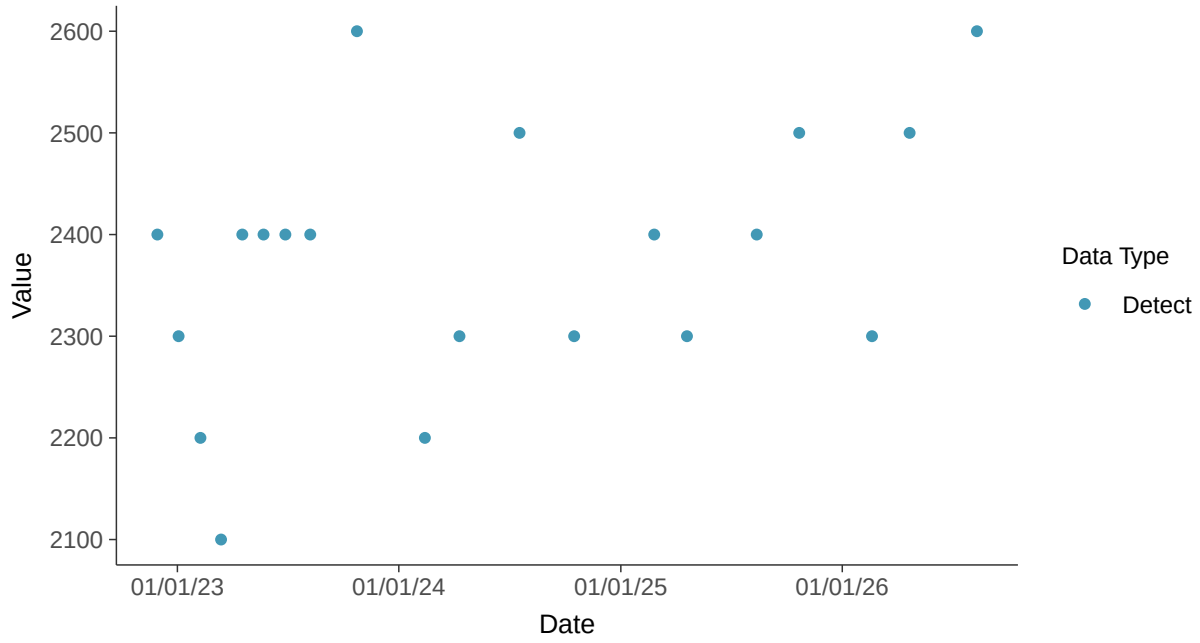

Trend Regression: Piecewise Linear-Linear-Linear
Sulfate (as SO4), MW-01R (mg/L)
Value
1000
750
500
250
0
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect

Appendix III: Total Dissolved Solids, MW-01R

ID: 11_2_3_126

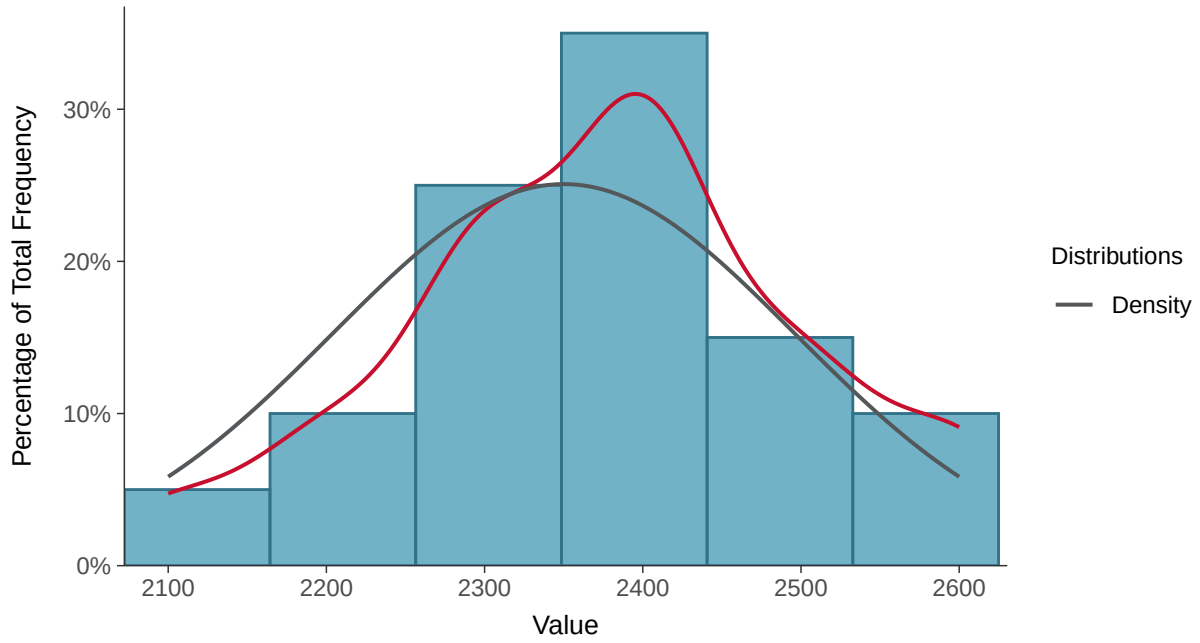
Scatter Plot

Total Dissolved Solids, MW-01R (mg/L)



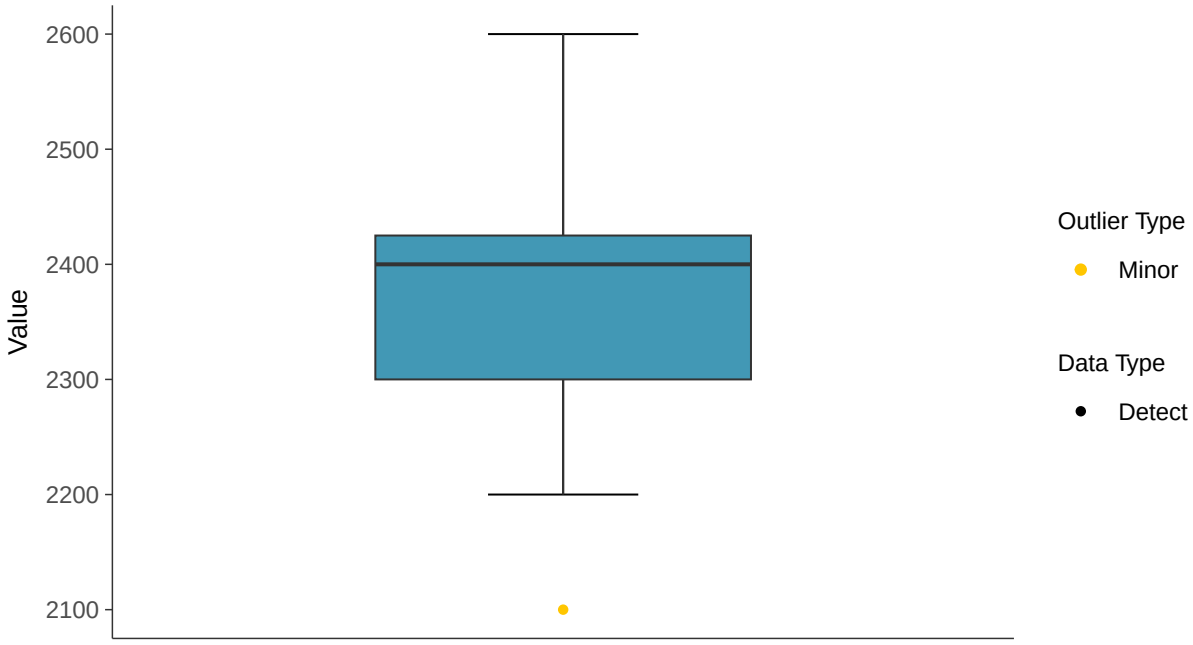
Histogram

Total Dissolved Solids, MW-01R (mg/L)



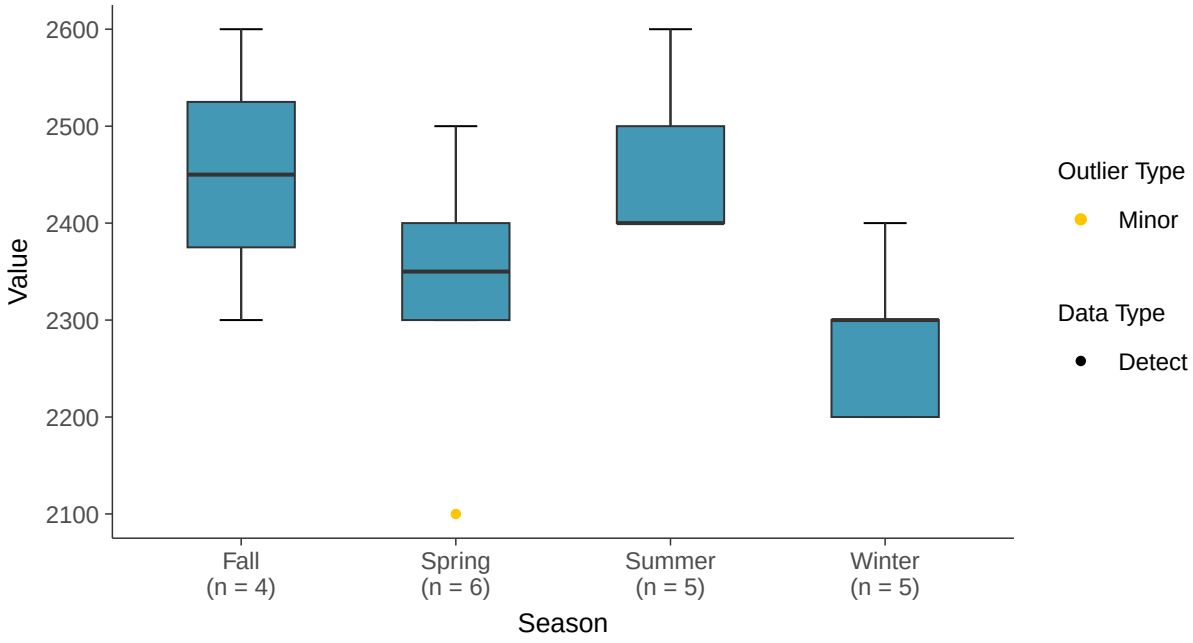
Boxplot

Total Dissolved Solids, MW-01R (mg/L)



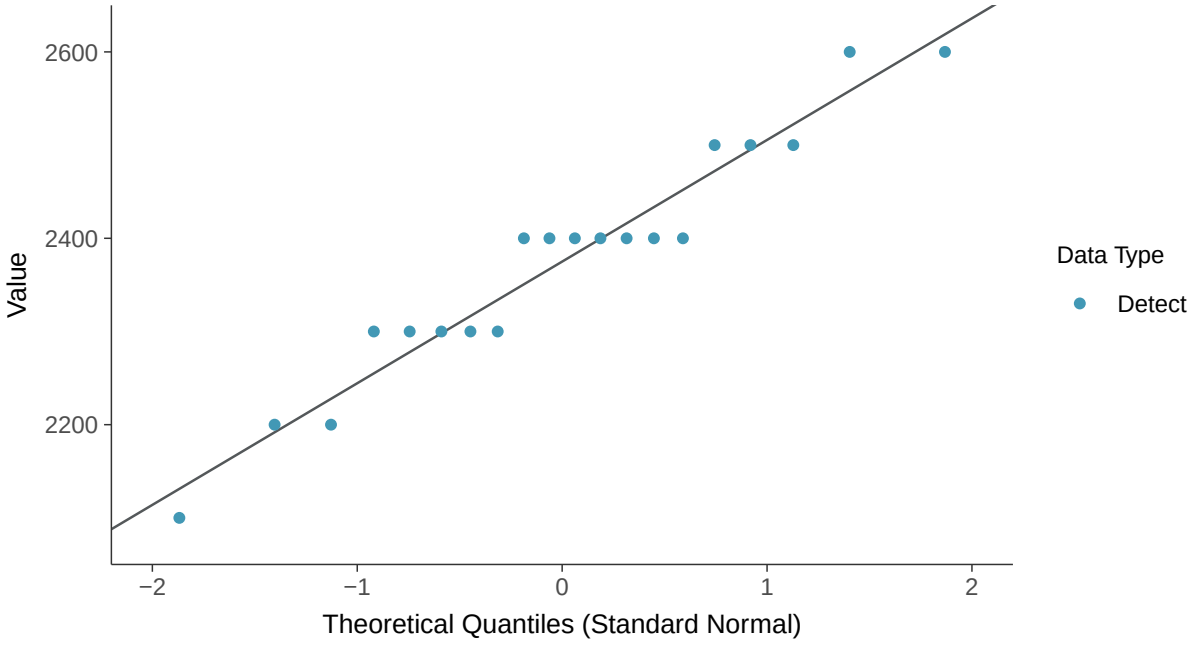
Boxplot by Season

Total Dissolved Solids, MW-01R (mg/L)



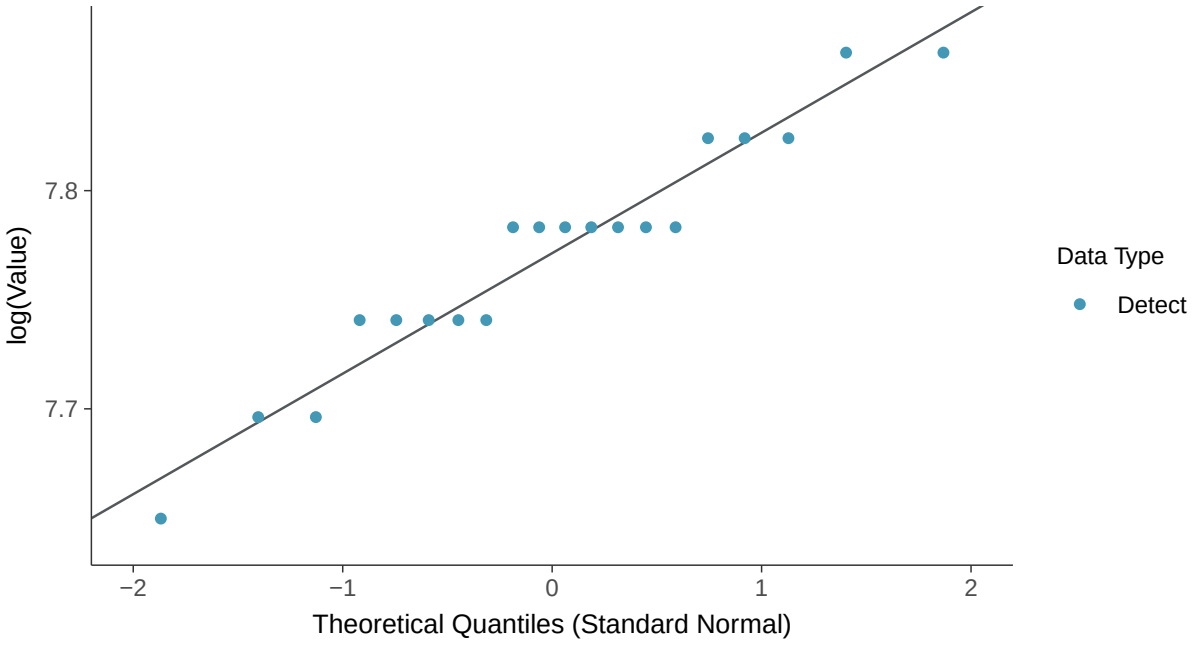
Normal Q-Q plot

Total Dissolved Solids, MW-01R (mg/L)



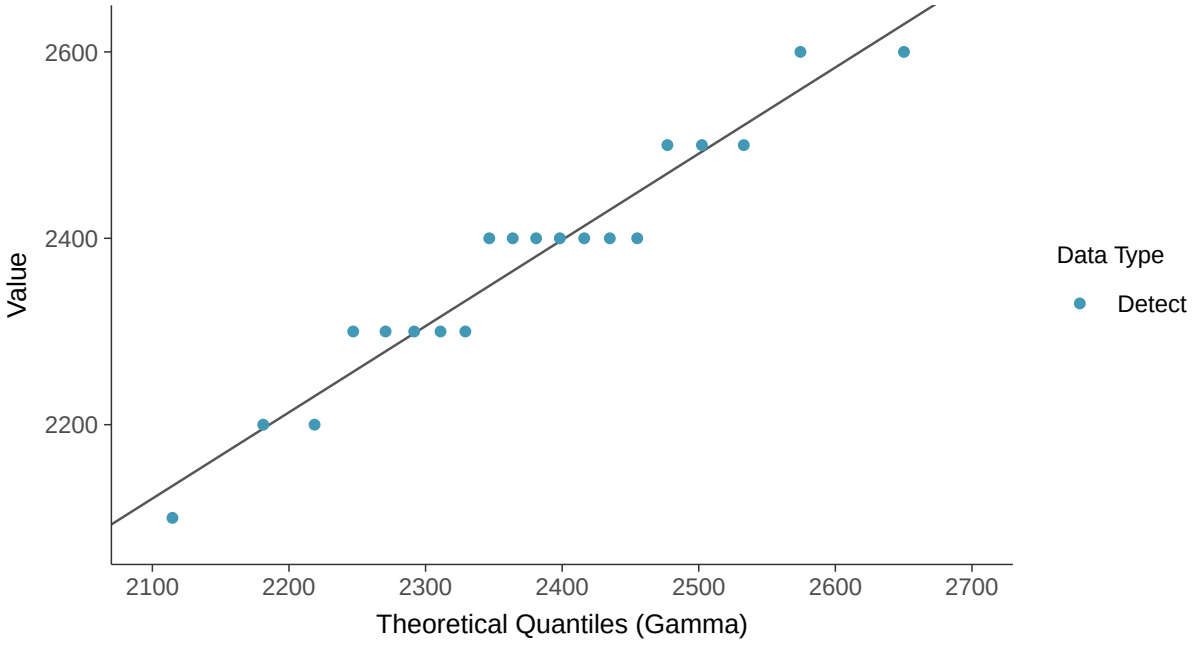
Lognormal Q-Q plot

Total Dissolved Solids, MW-01R (mg/L)



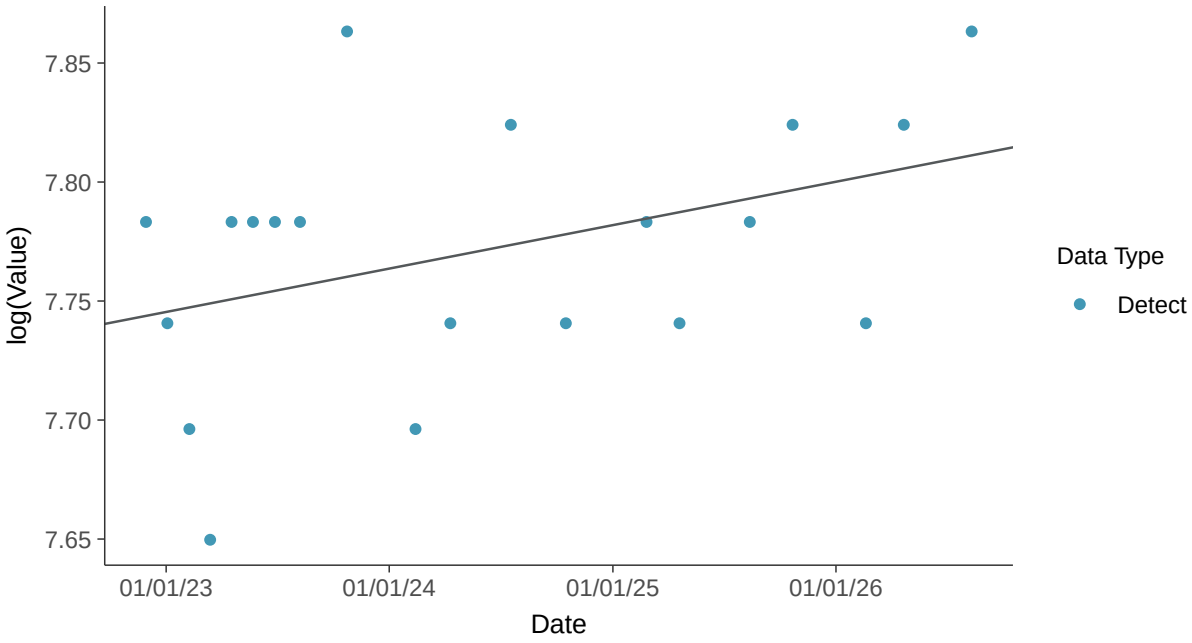
Gamma Q-Q plot

Total Dissolved Solids, MW-01R (mg/L)



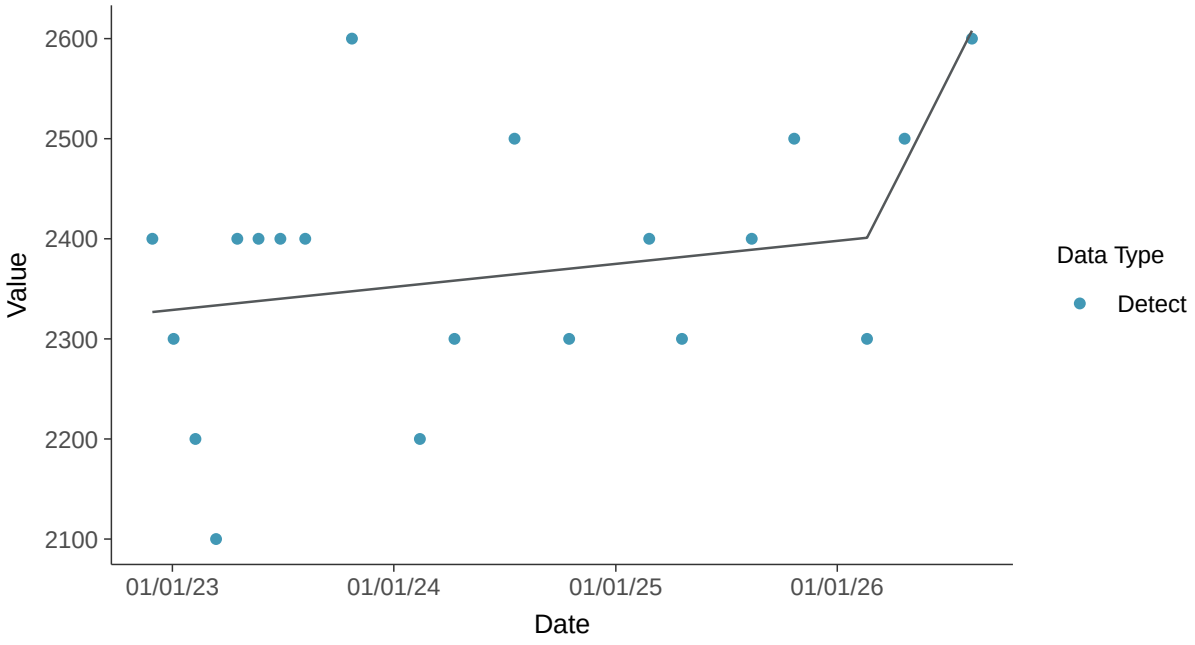
Trend Regression: Lognormal MLE

Total Dissolved Solids, MW-01R (mg/L)



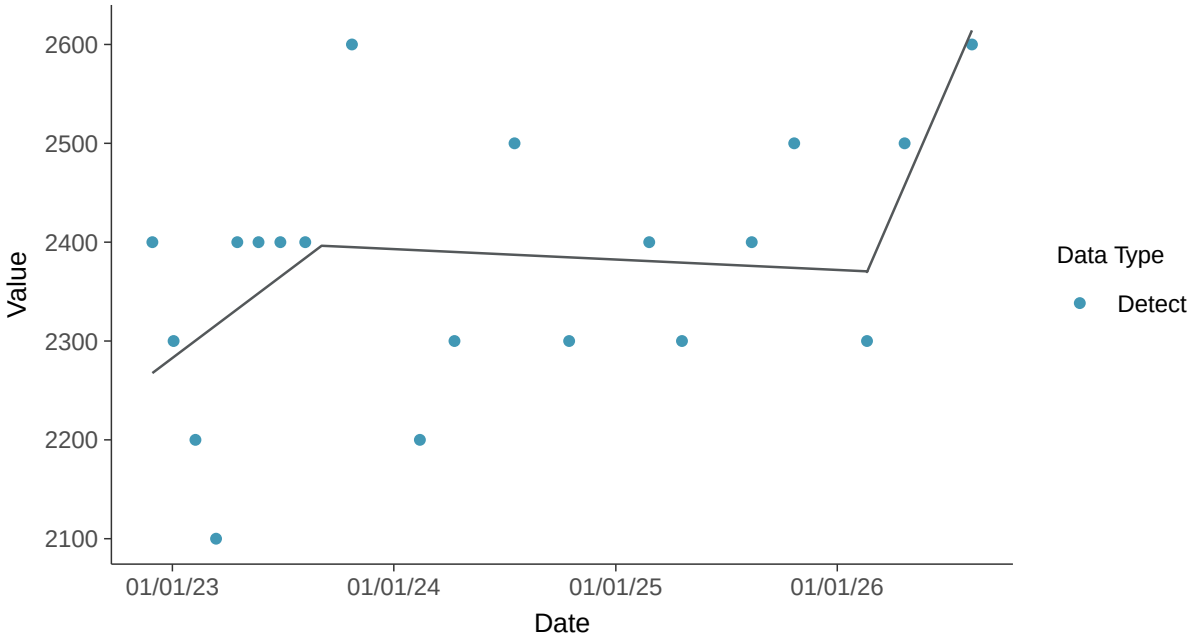
Trend Regression: Piecewise Linear-Linear

Total Dissolved Solids, MW-01R (mg/L)



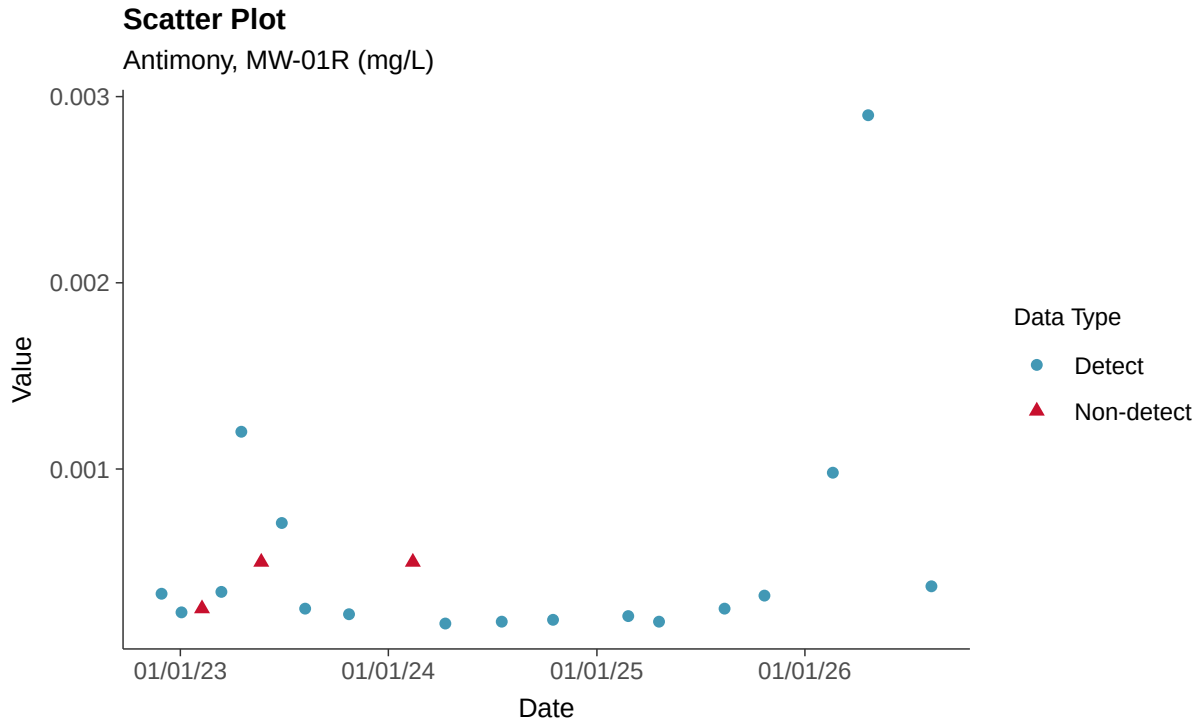
Trend Regression: Piecewise Linear-Linear-Linear

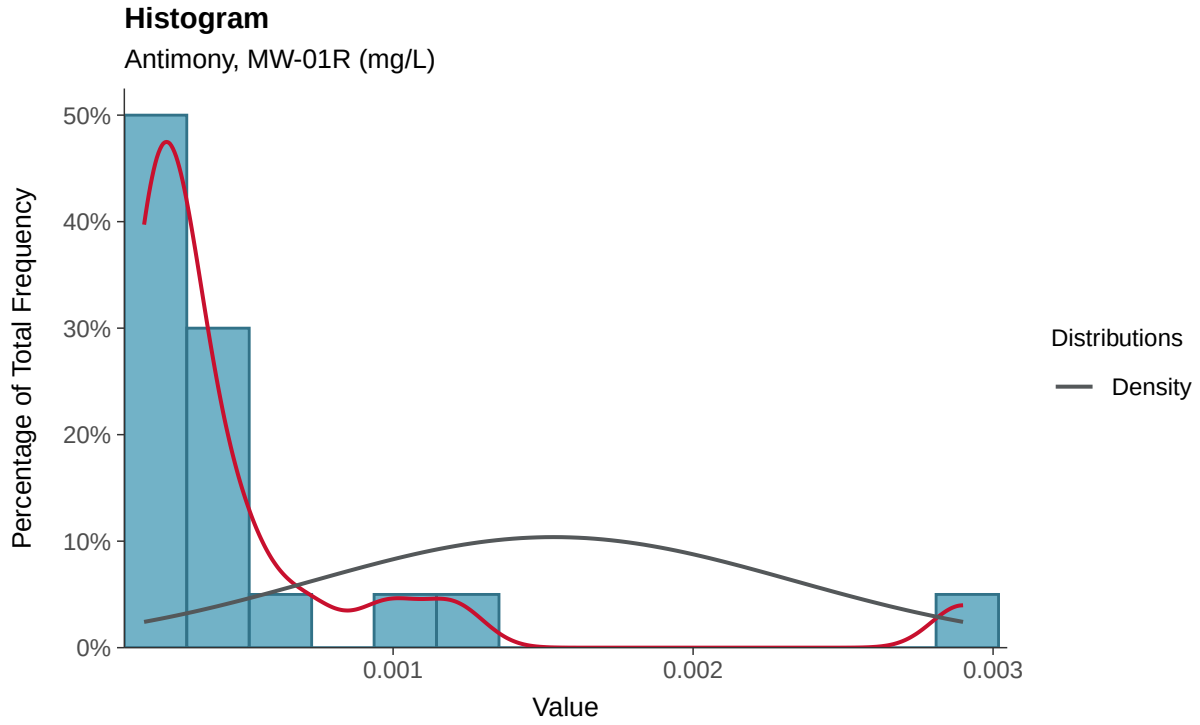
Total Dissolved Solids, MW-01R (mg/L)



Appendix IV: Antimony, MW-01R

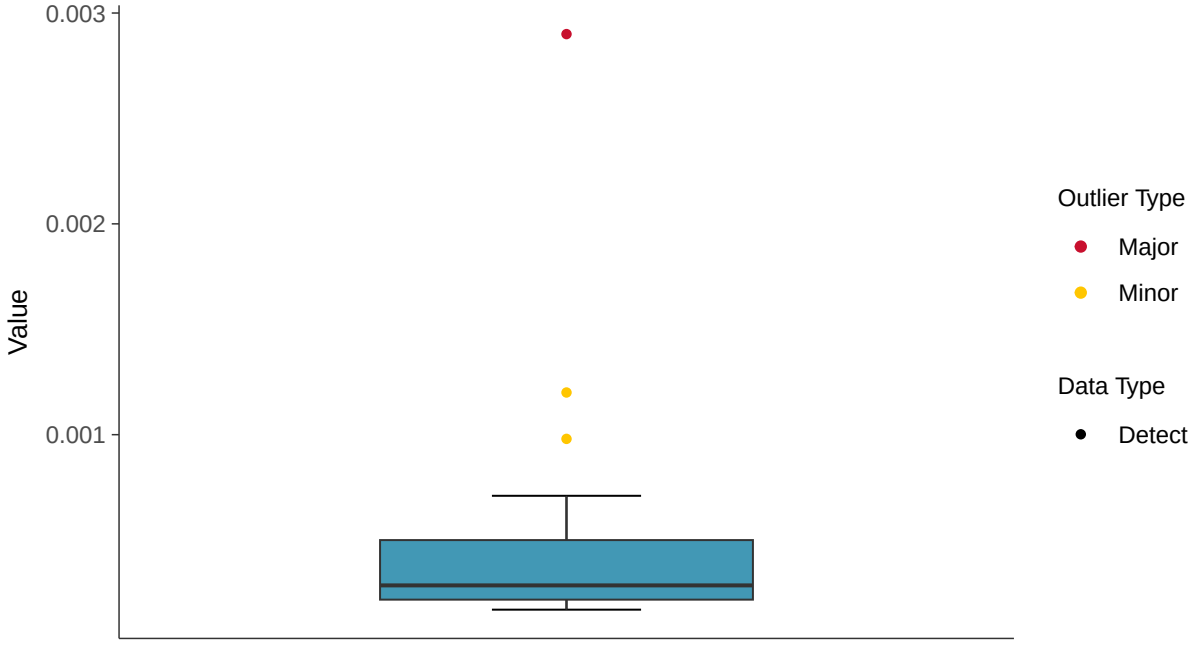
ID: 11_2_4_101





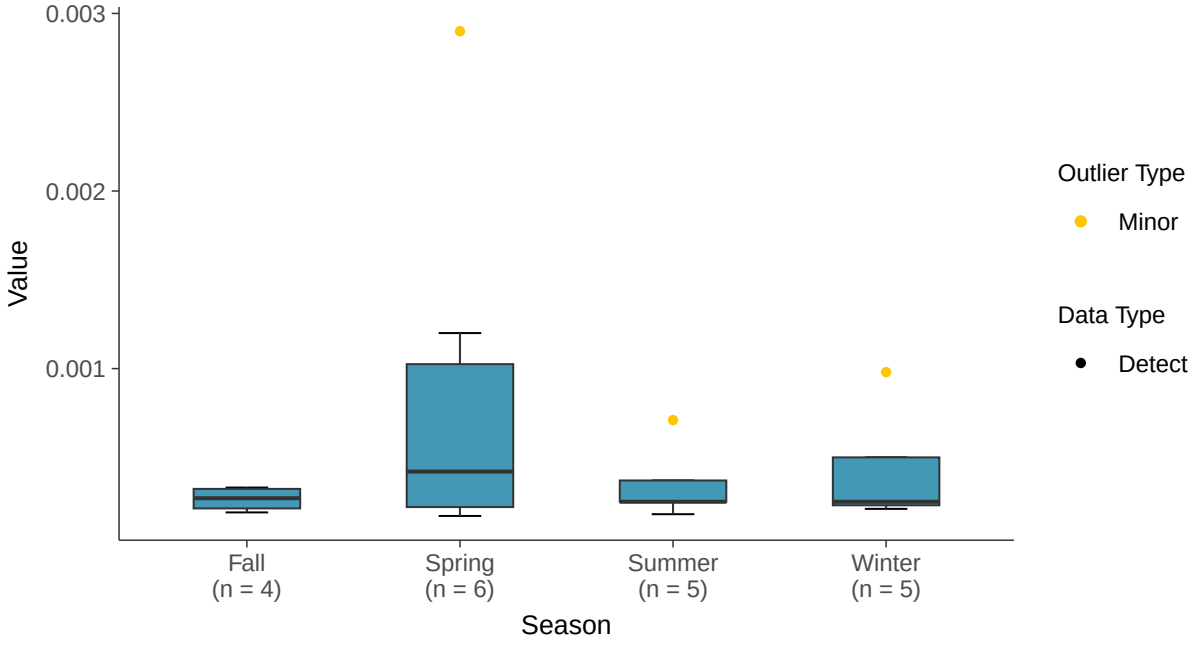
Boxplot

Antimony, MW-01R (mg/L)



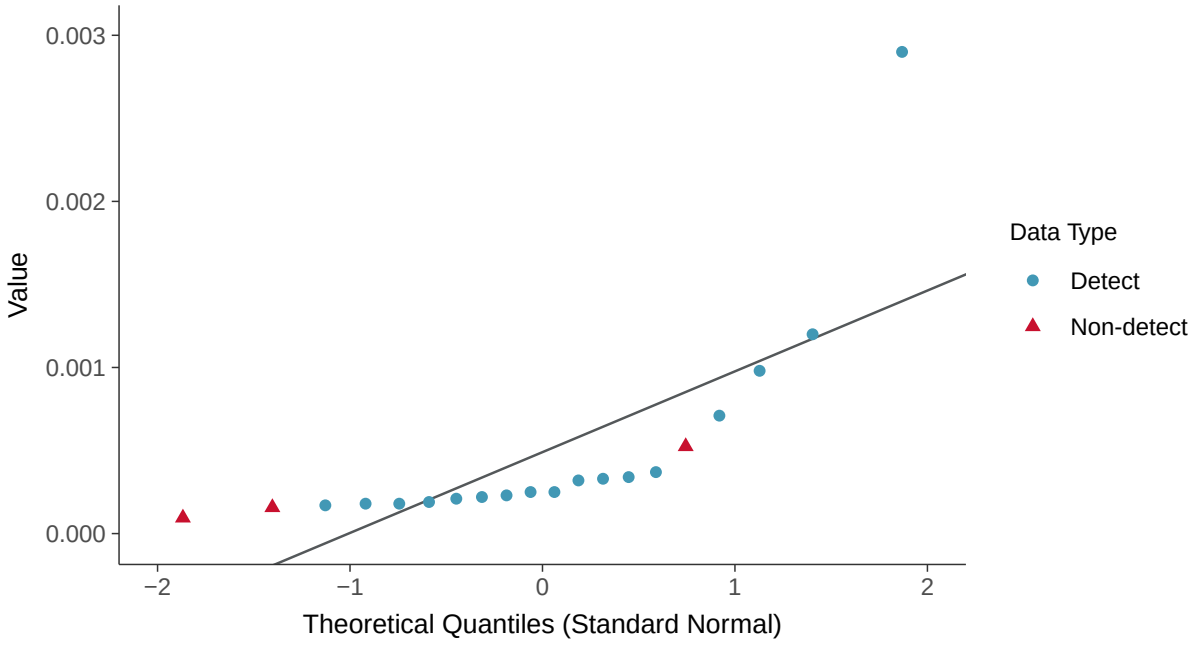
Boxplot by Season

Antimony, MW-01R (mg/L)



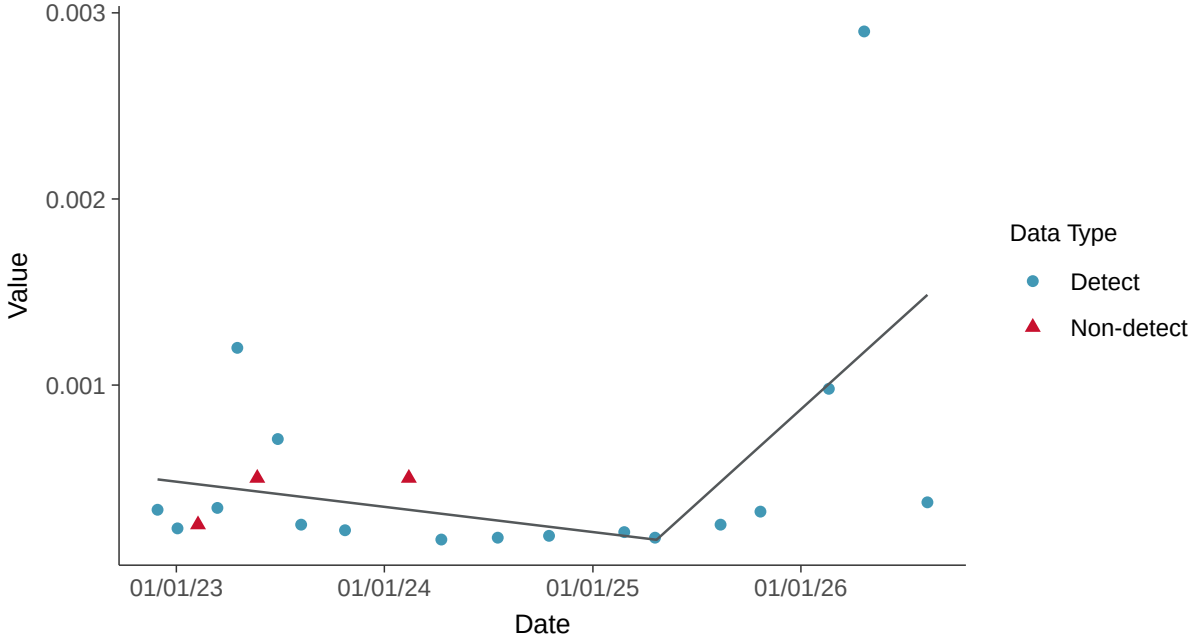
Normal Q-Q plot using ROS Imputed Estimates

Antimony, MW-01R (mg/L)



Trend Regression: Piecewise Linear-Linear

Antimony, MW-01R (mg/L)

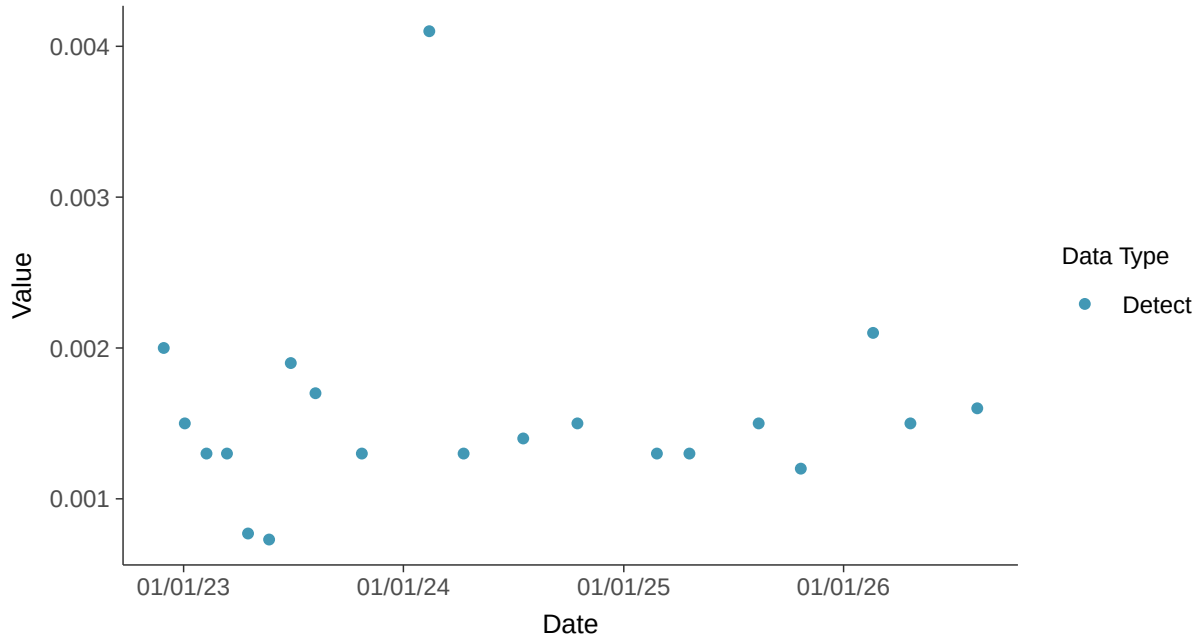


Appendix IV: Arsenic, MW-01R

ID: 11_2_4_102

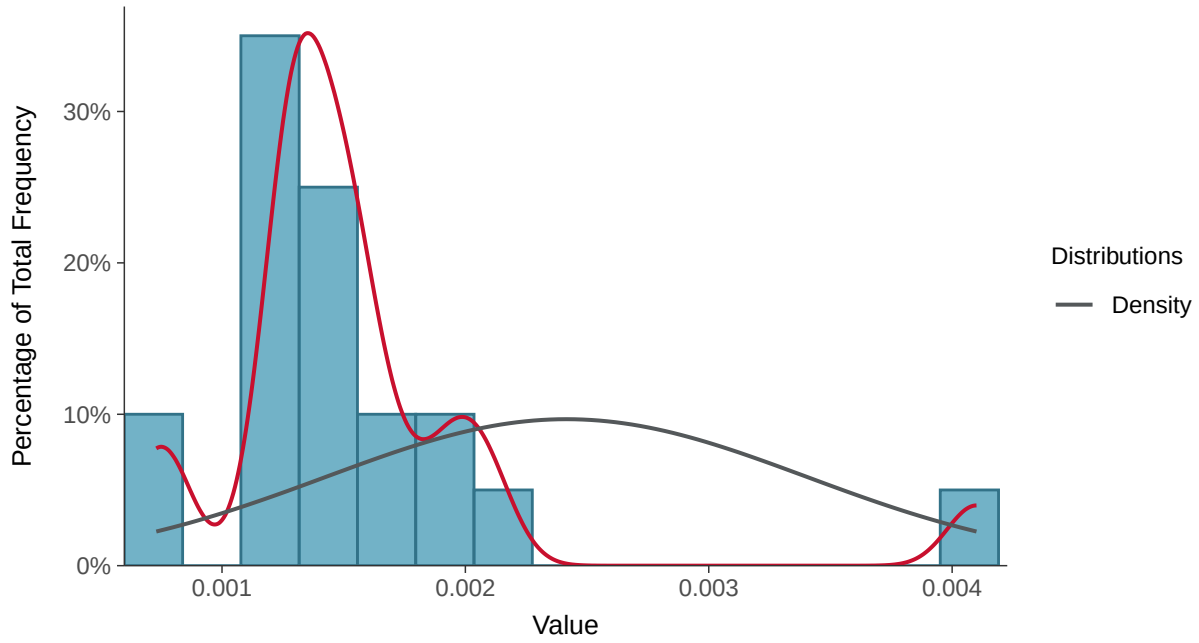
Scatter Plot

Arsenic, MW-01R (mg/L)



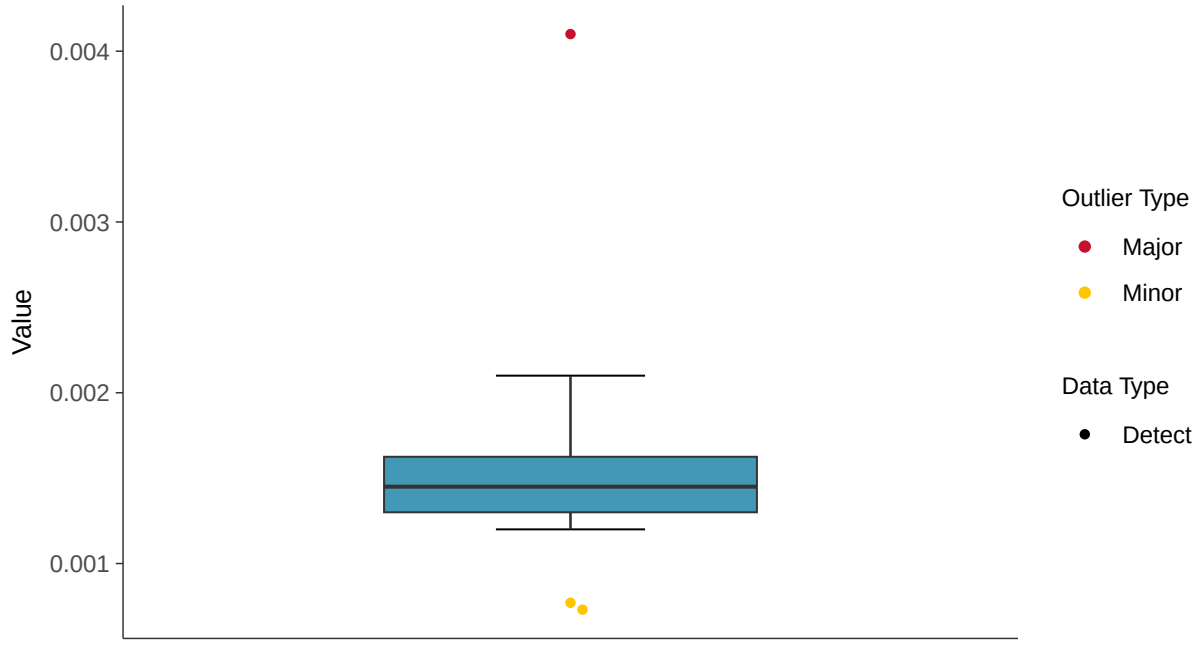
Histogram

Arsenic, MW-01R (mg/L)



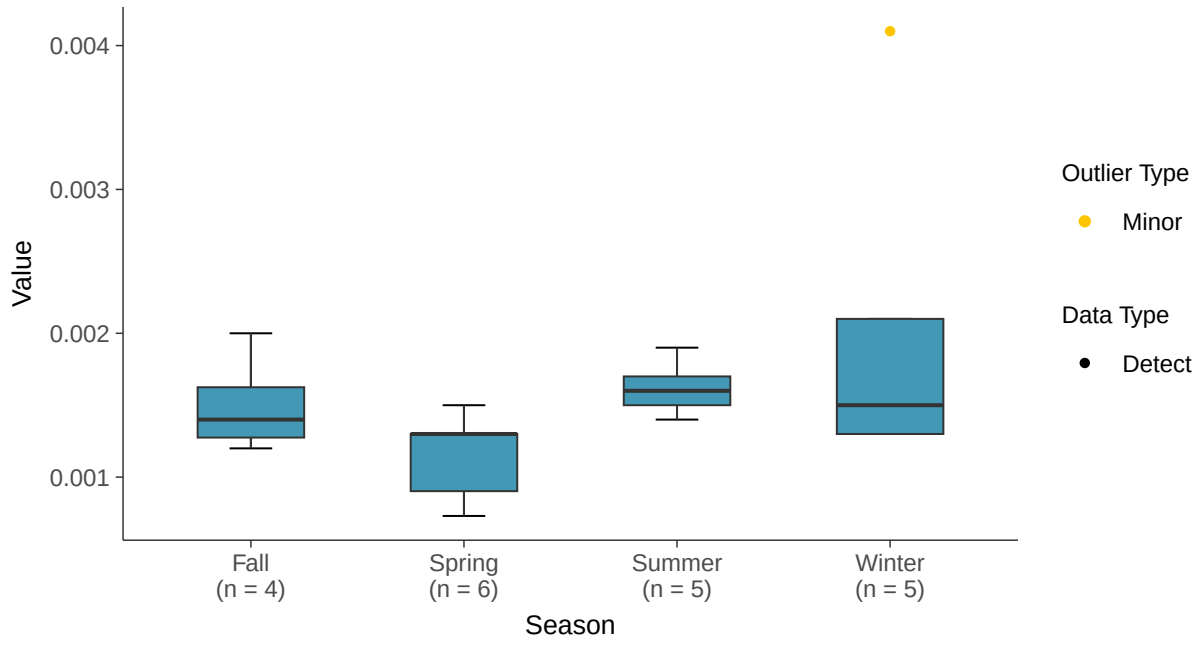
Boxplot

Arsenic, MW-01R (mg/L)



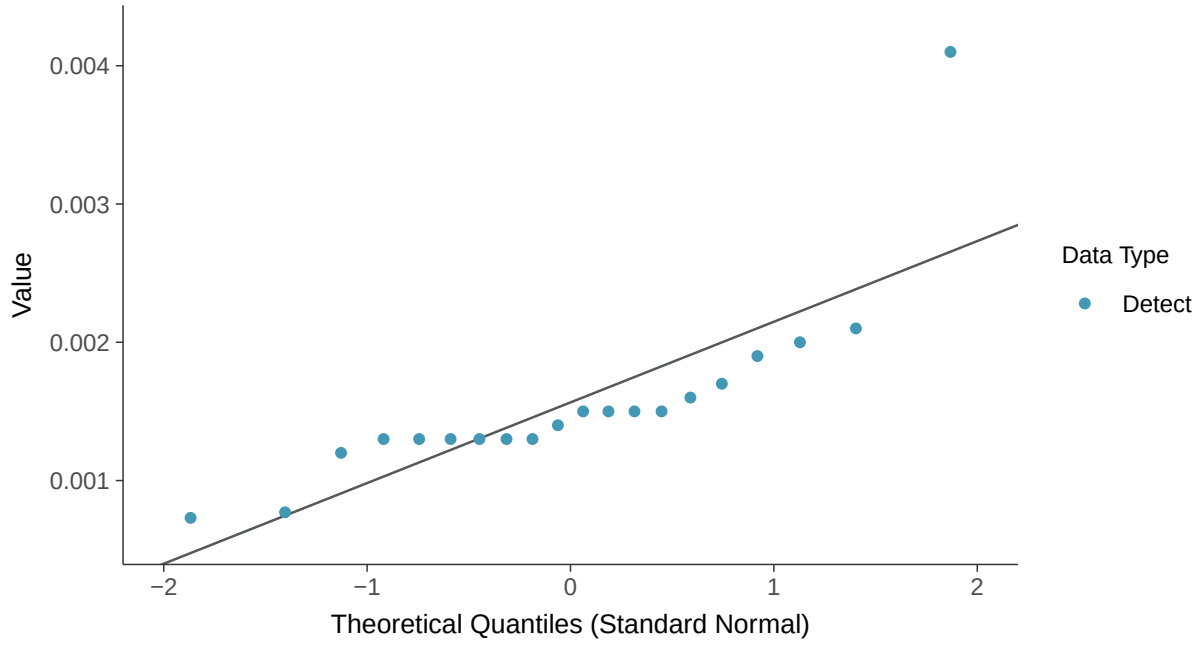
Boxplot by Season

Arsenic, MW-01R (mg/L)



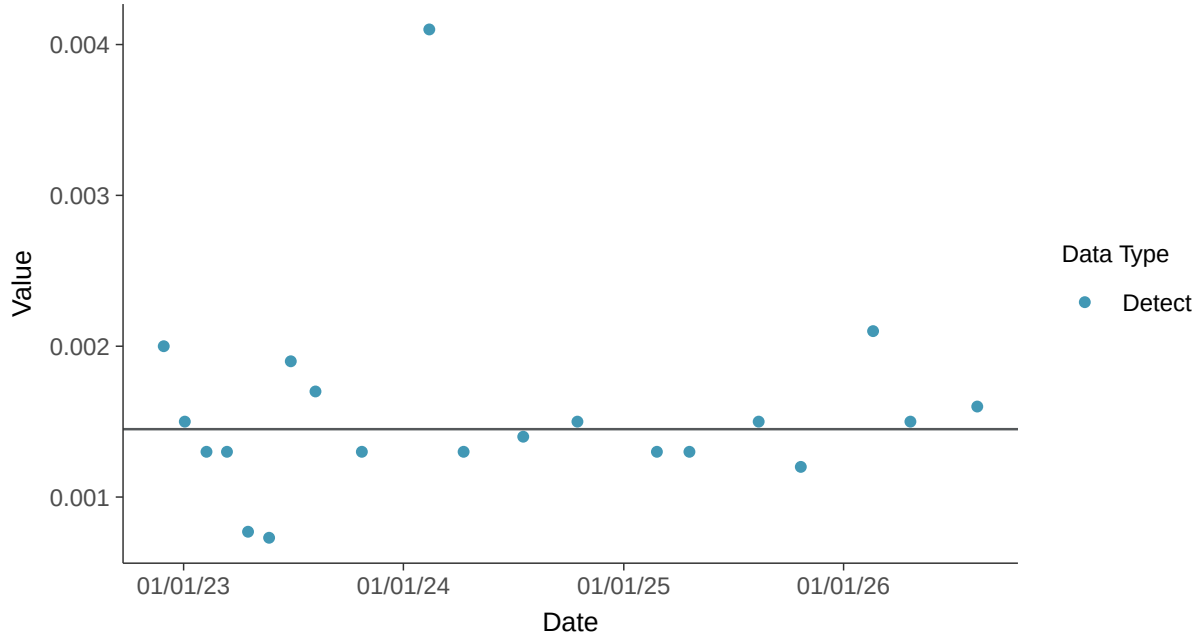
Normal Q-Q plot

Arsenic, MW-01R (mg/L)



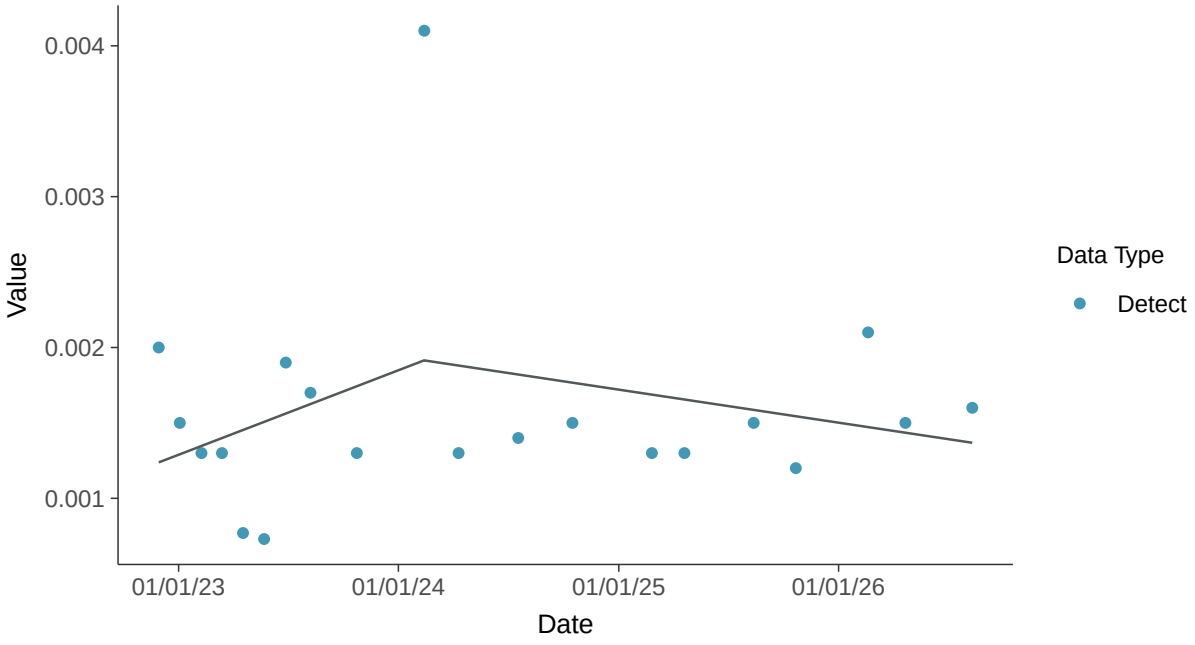
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Arsenic, MW-01R (mg/L)



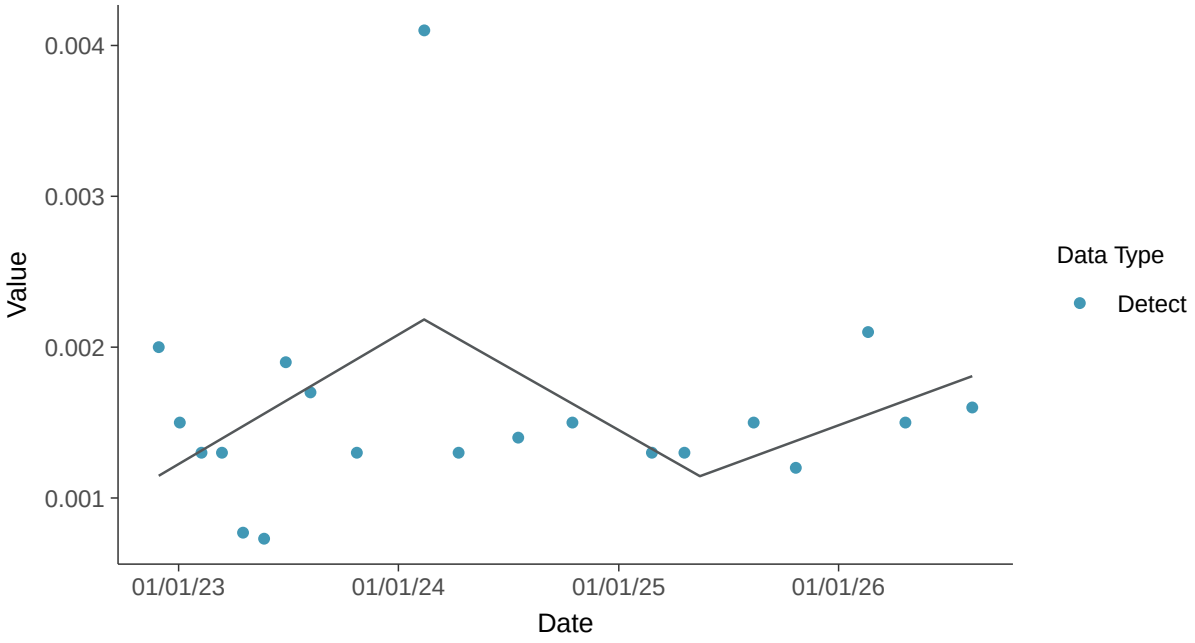
Trend Regression: Piecewise Linear-Linear

Arsenic, MW-01R (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Arsenic, MW-01R (mg/L)

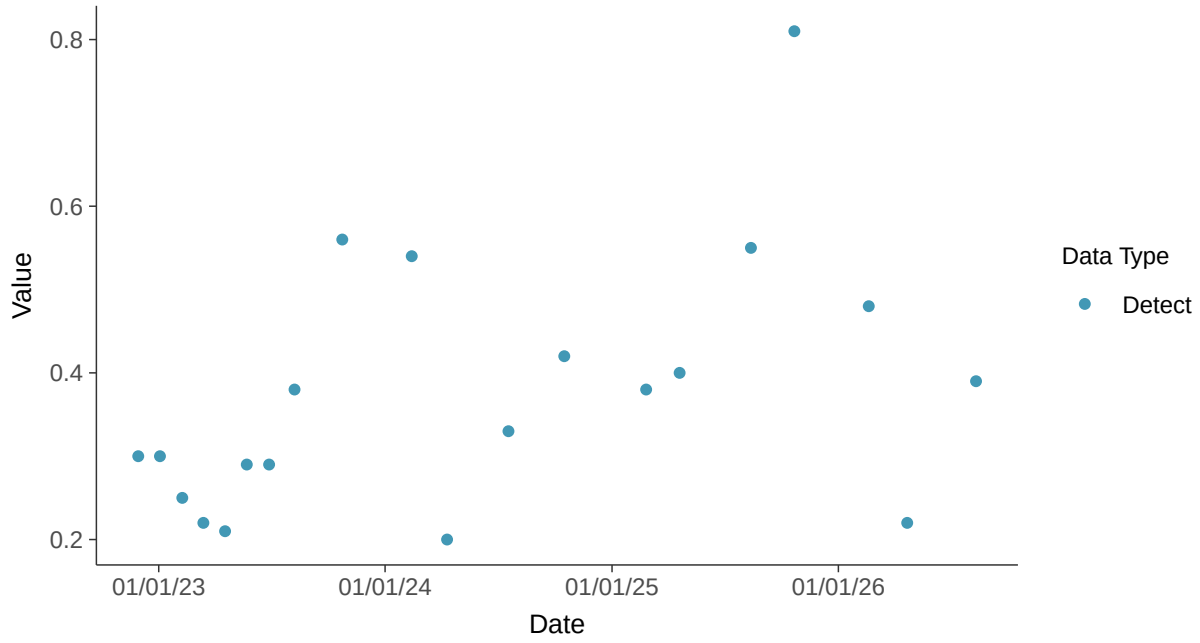


Appendix IV: Barium, MW-01R

ID: 11_2_4_103

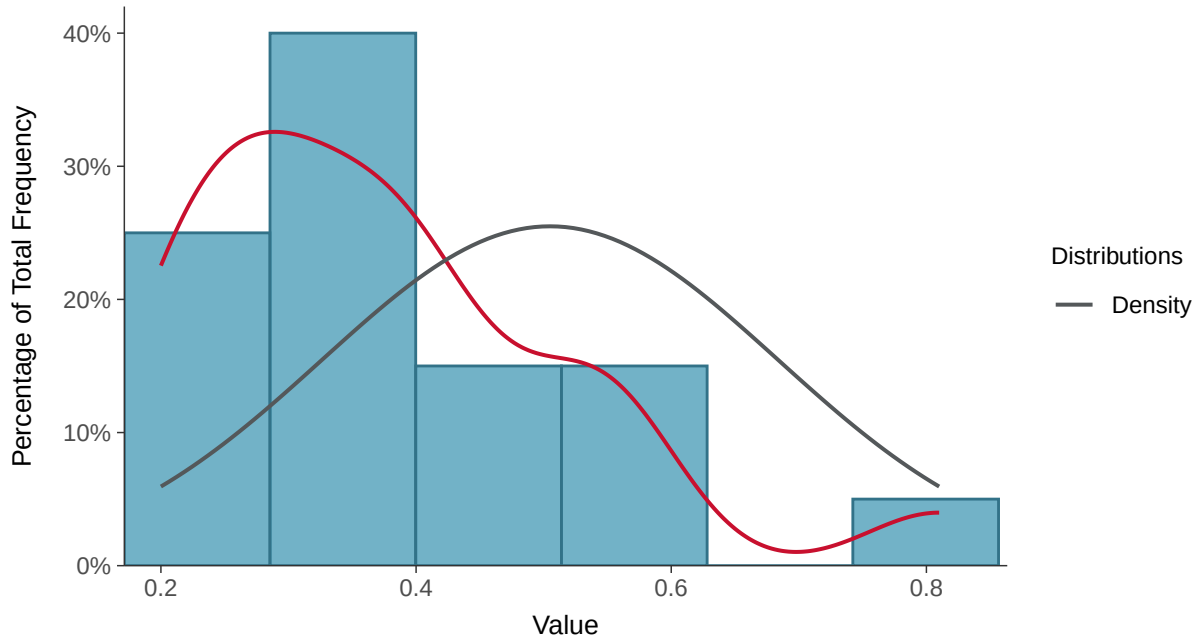
Scatter Plot

Barium, MW-01R (mg/L)



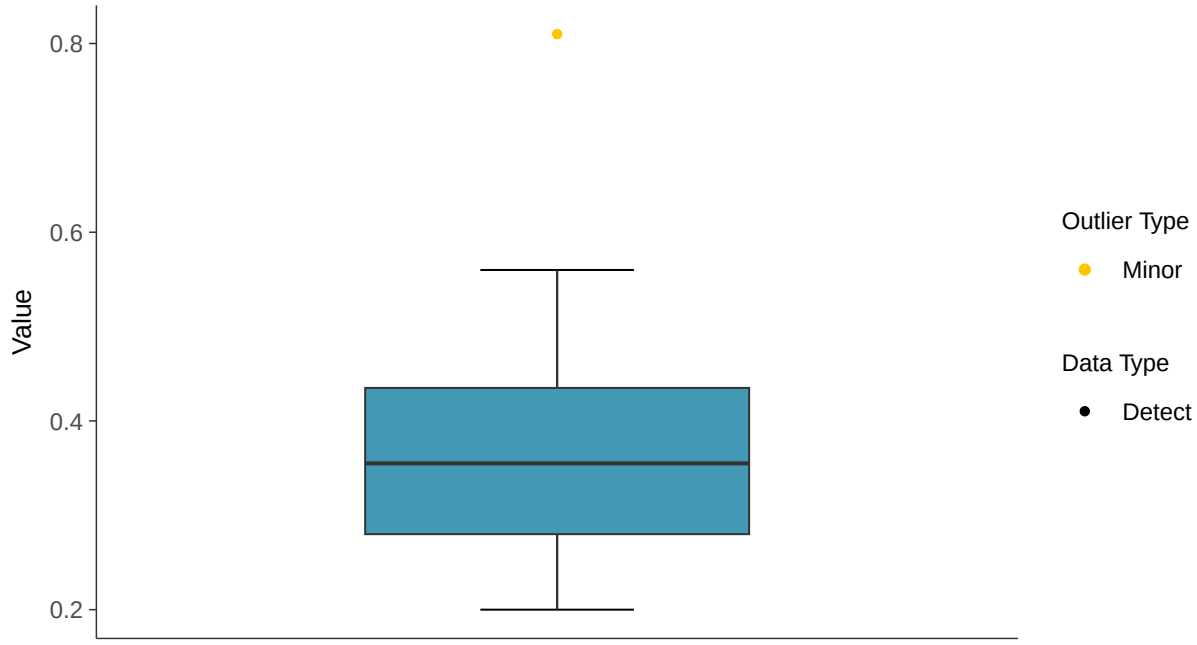
Histogram

Barium, MW-01R (mg/L)



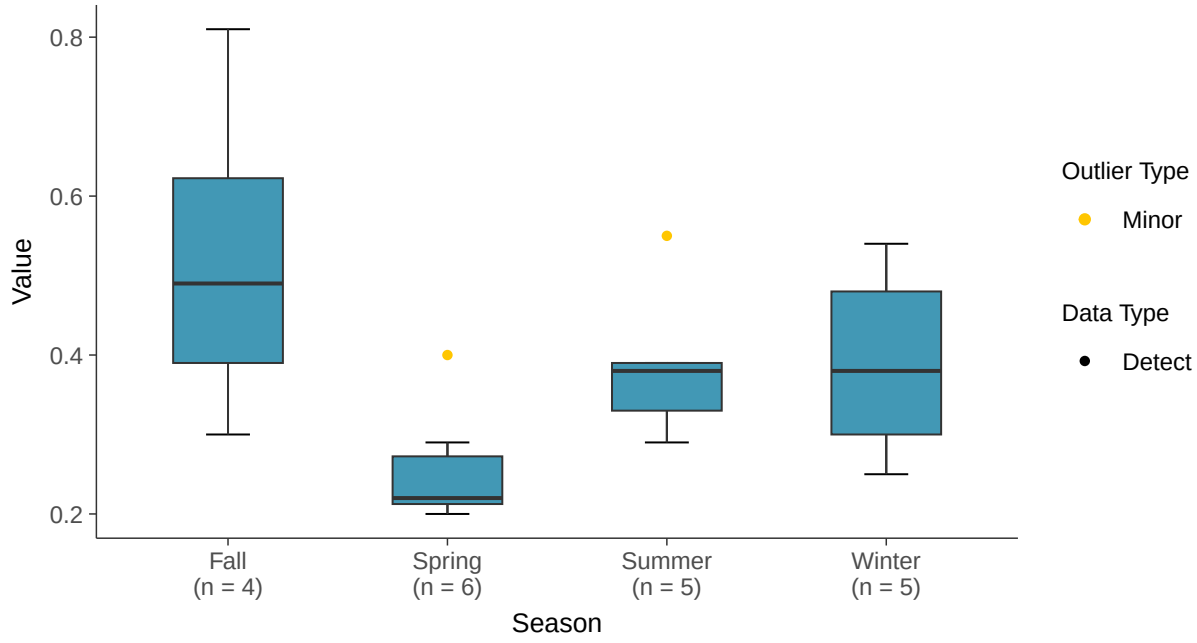
Boxplot

Barium, MW-01R (mg/L)



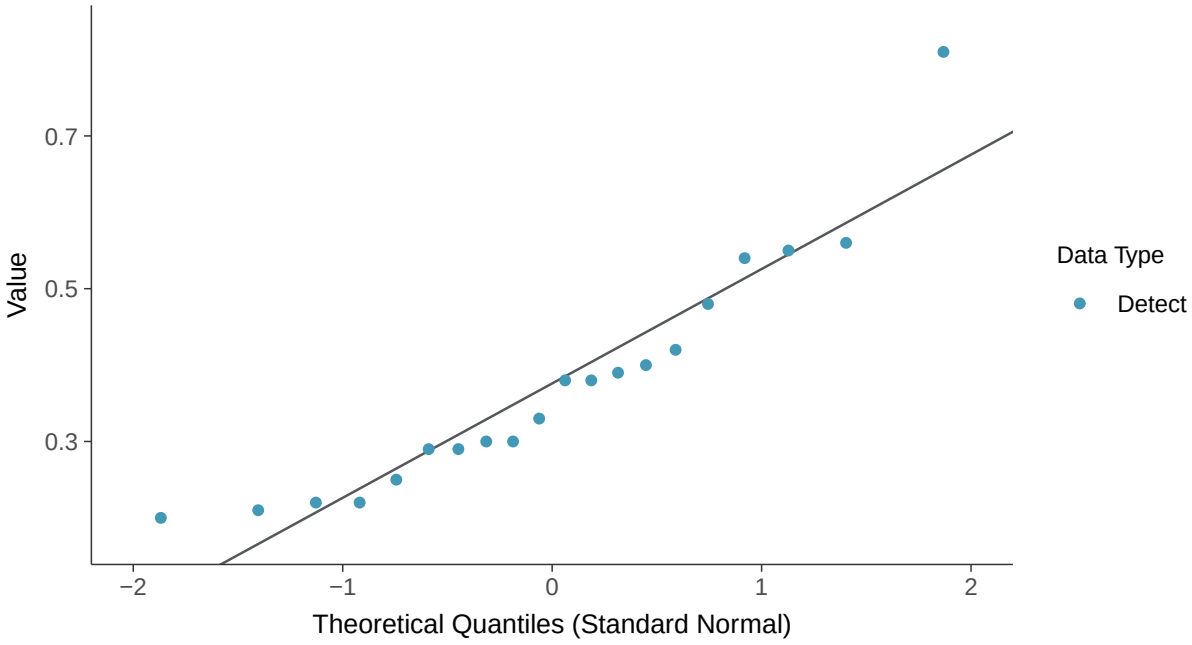
Boxplot by Season

Barium, MW-01R (mg/L)



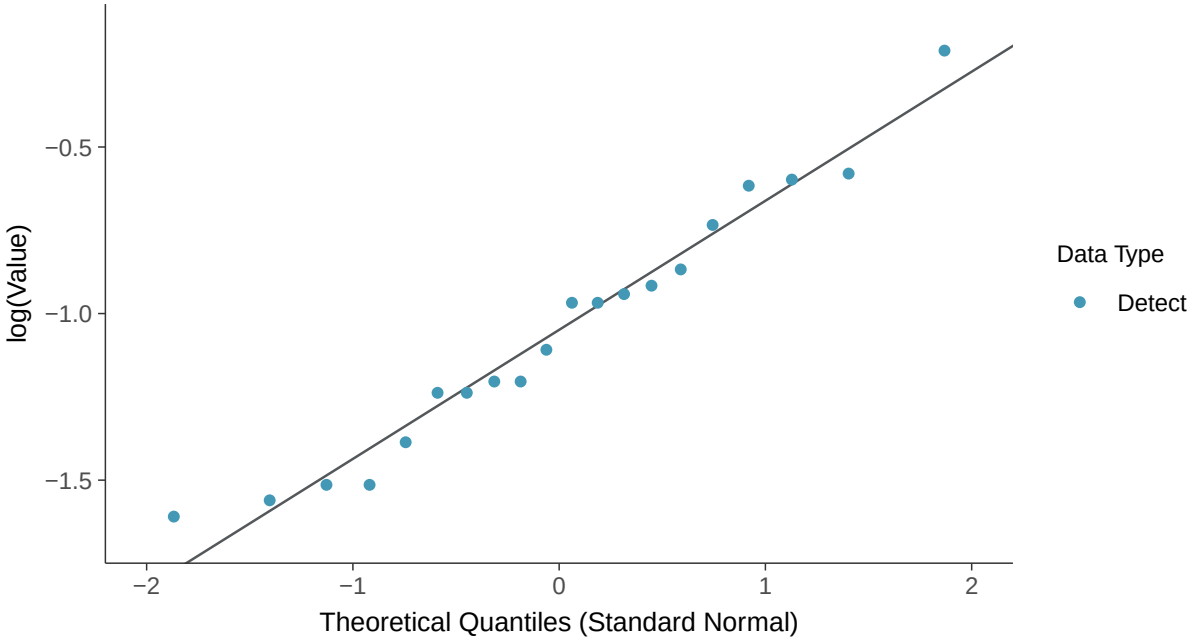
Normal Q-Q plot

Barium, MW-01R (mg/L)



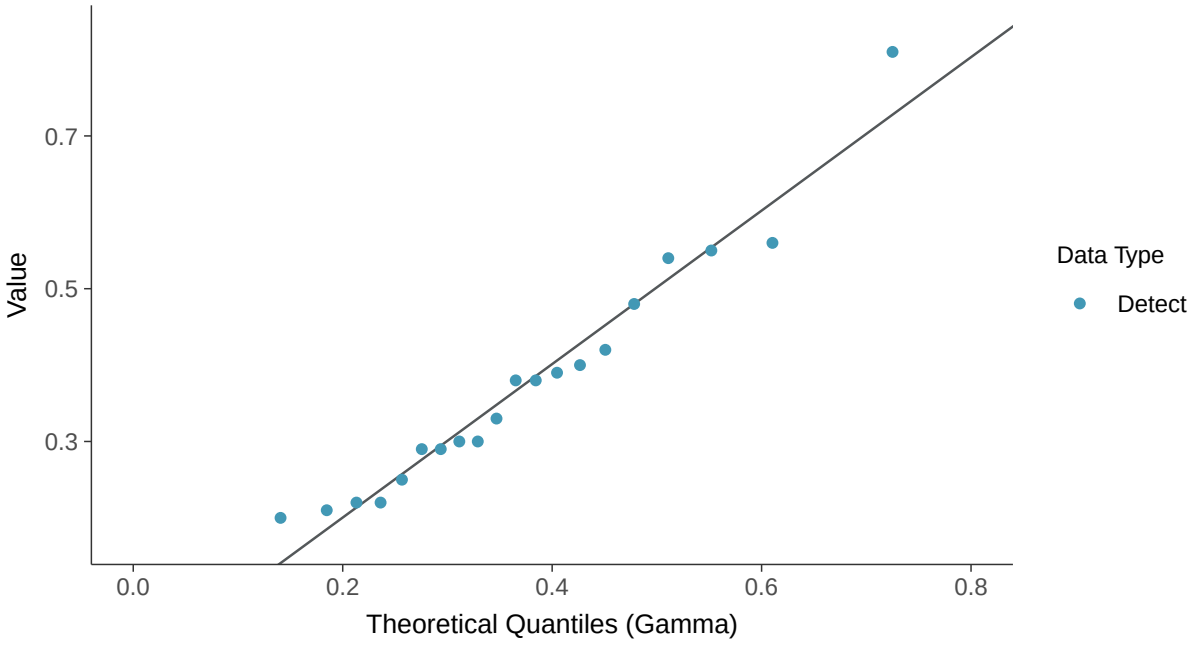
Lognormal Q-Q plot

Barium, MW-01R (mg/L)



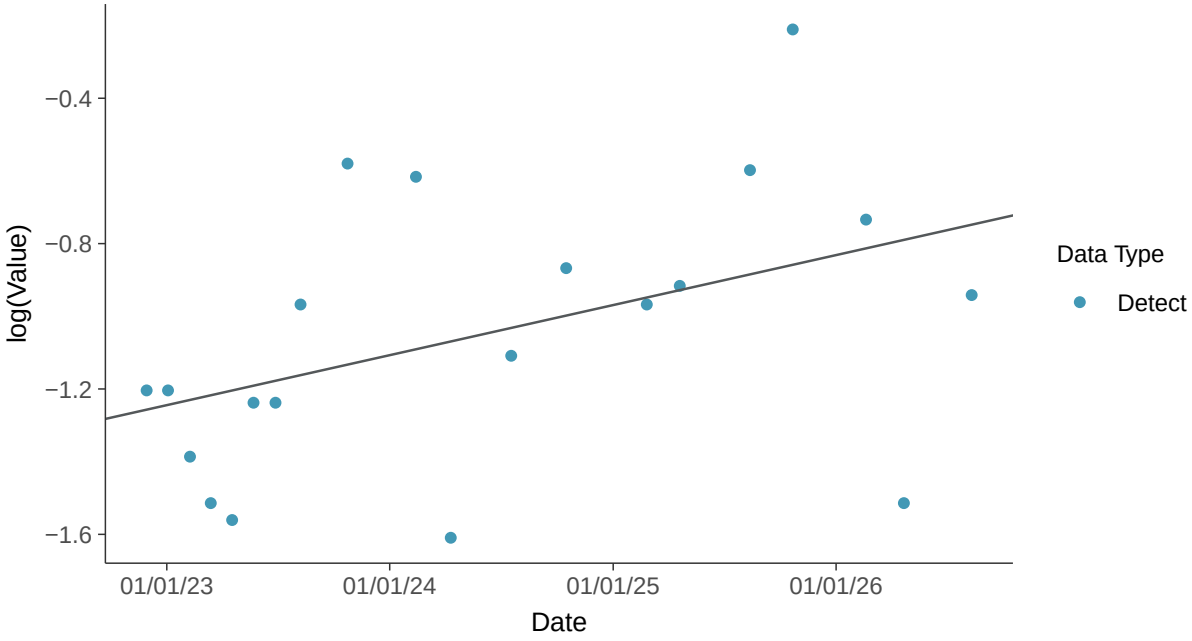
Gamma Q-Q plot

Barium, MW-01R (mg/L)



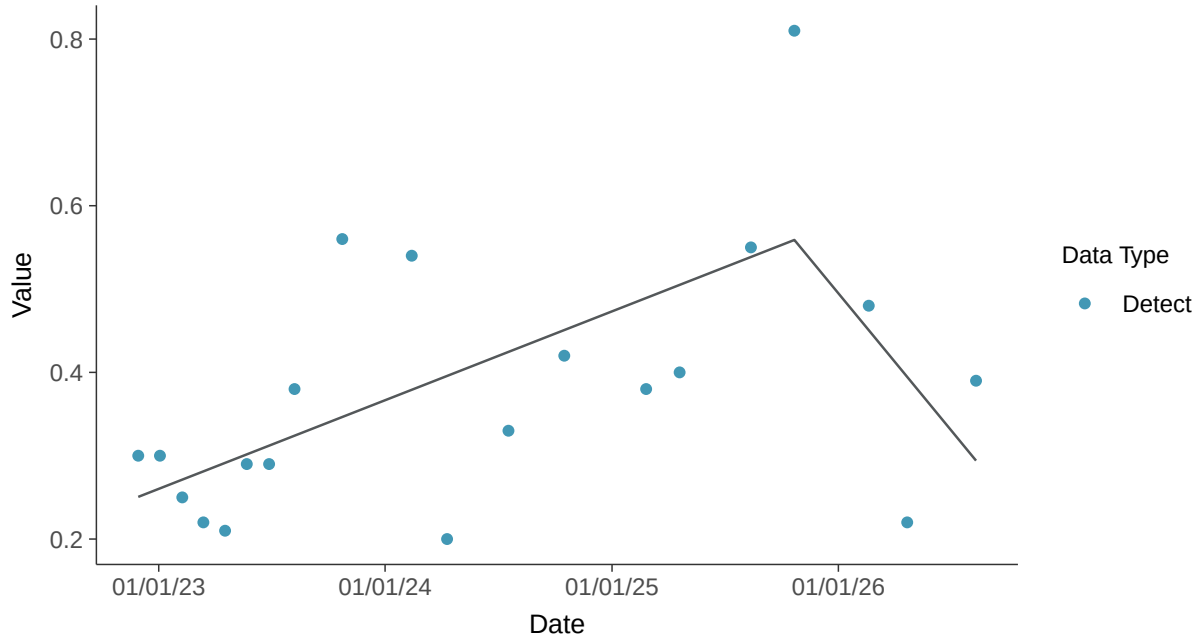
Trend Regression: Lognormal MLE

Barium, MW-01R (mg/L)



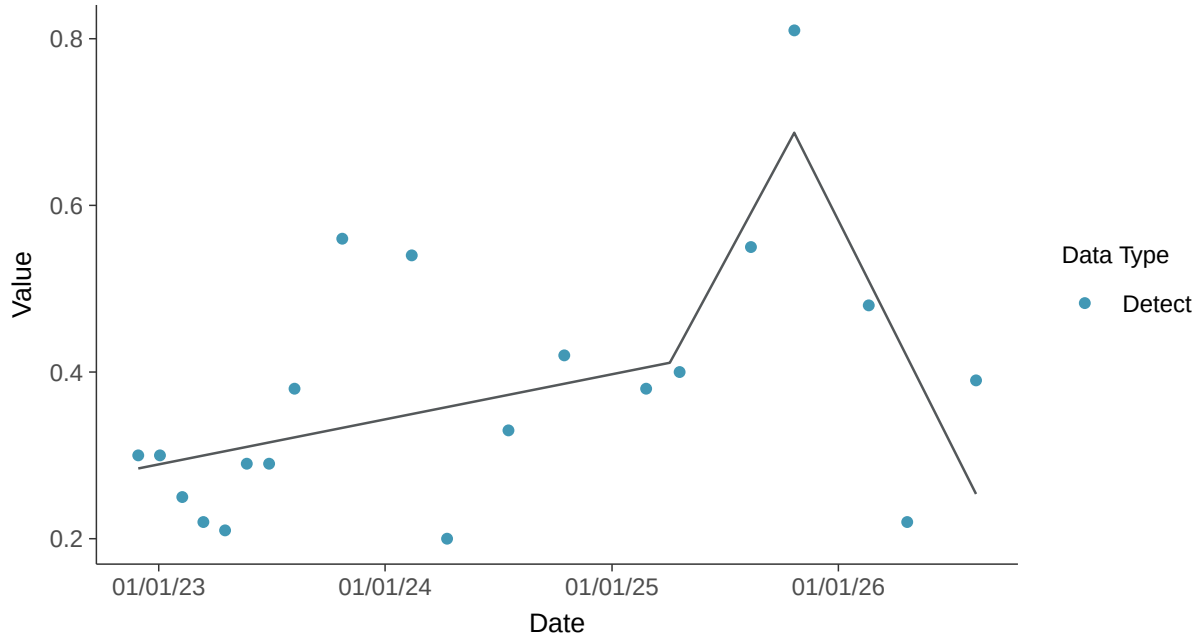
Trend Regression: Piecewise Linear-Linear

Barium, MW-01R (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Barium, MW-01R (mg/L)

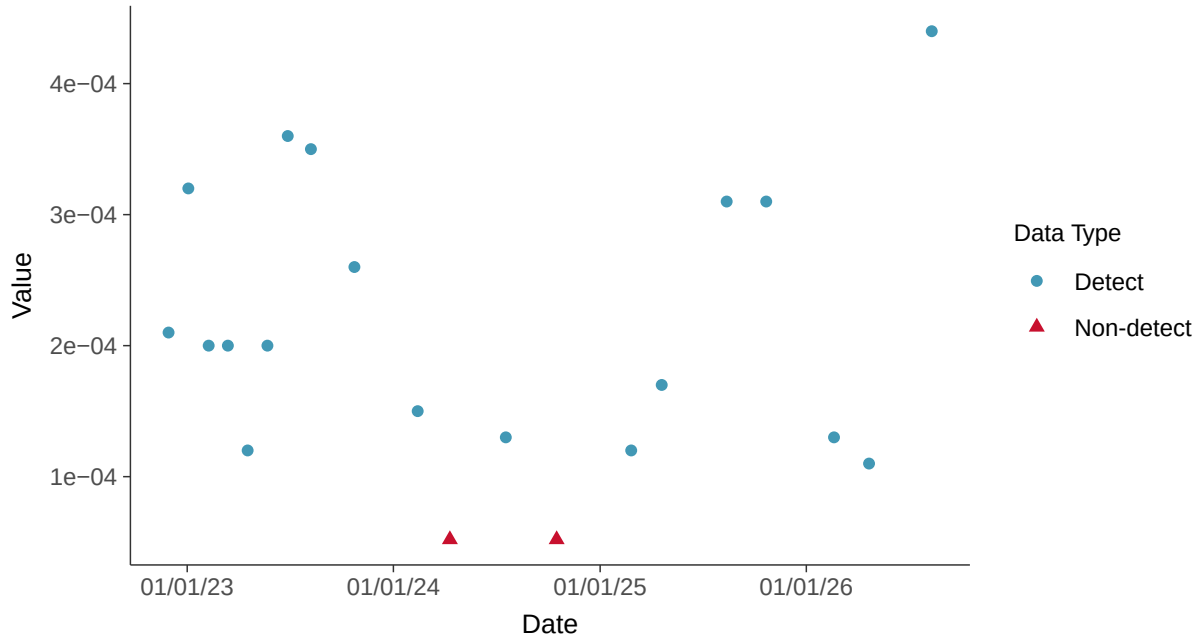


Appendix IV: Beryllium, MW-01R

ID: 11_2_4_104

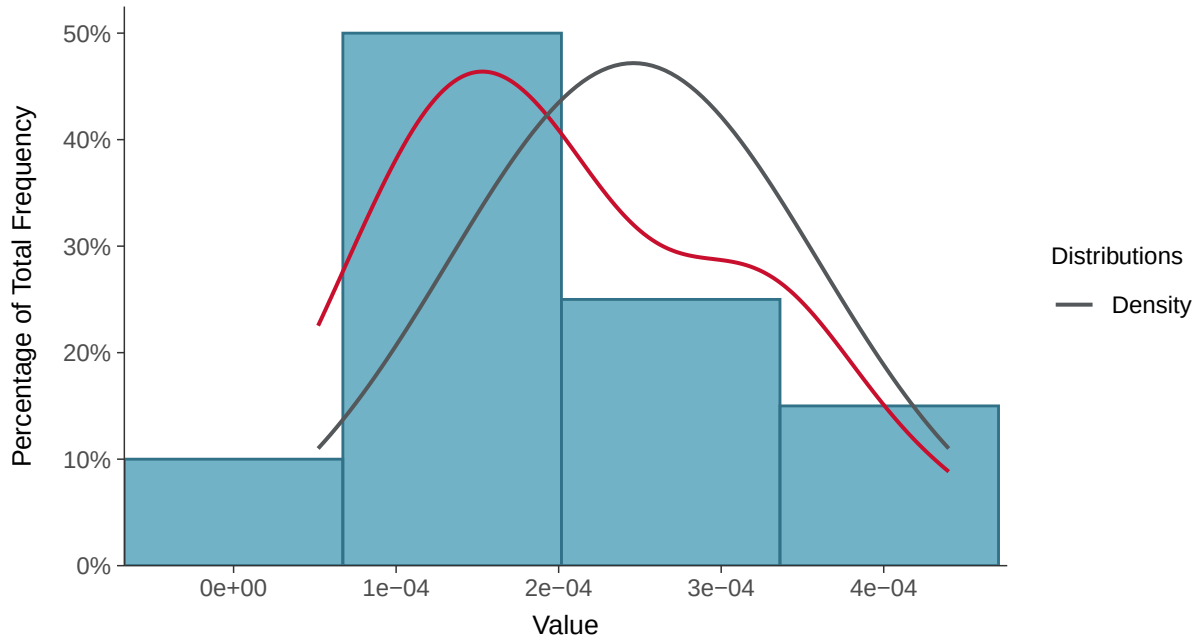
Scatter Plot

Beryllium, MW-01R (mg/L)



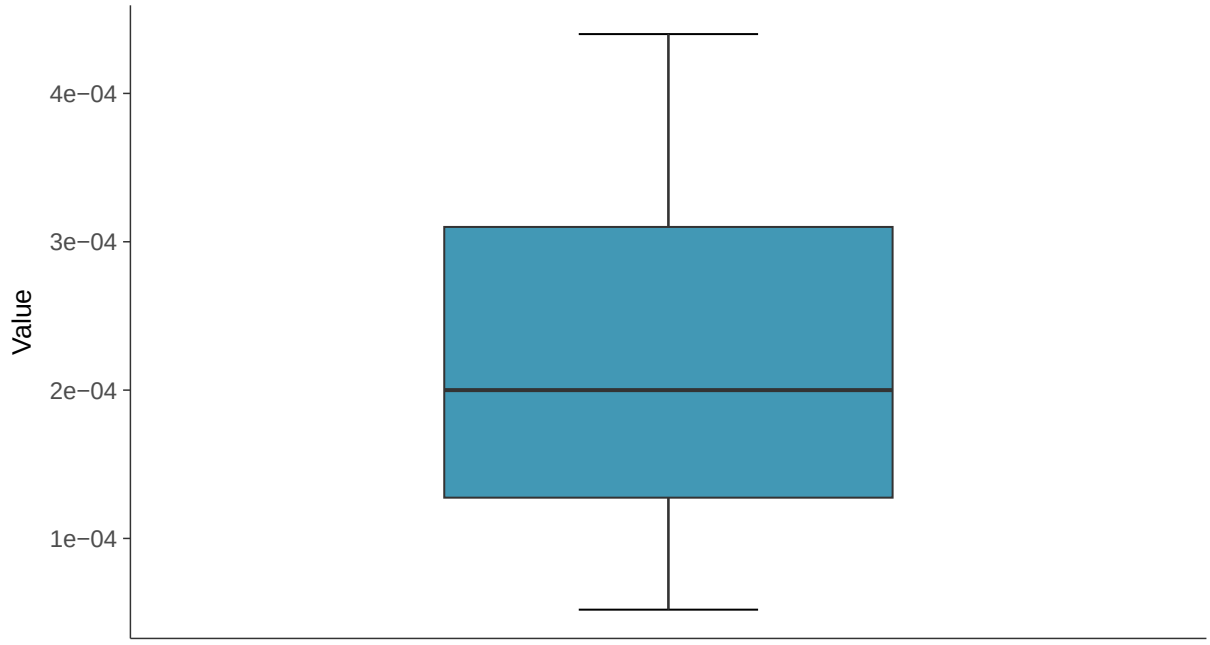
Histogram

Beryllium, MW-01R (mg/L)



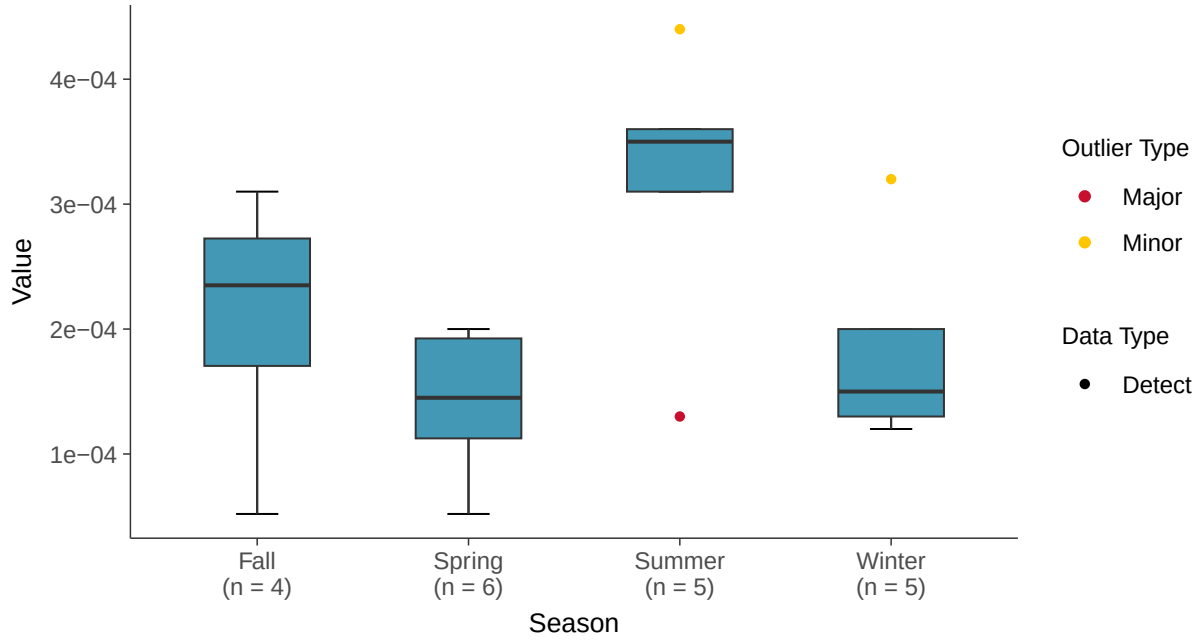
Boxplot

Beryllium, MW-01R (mg/L)



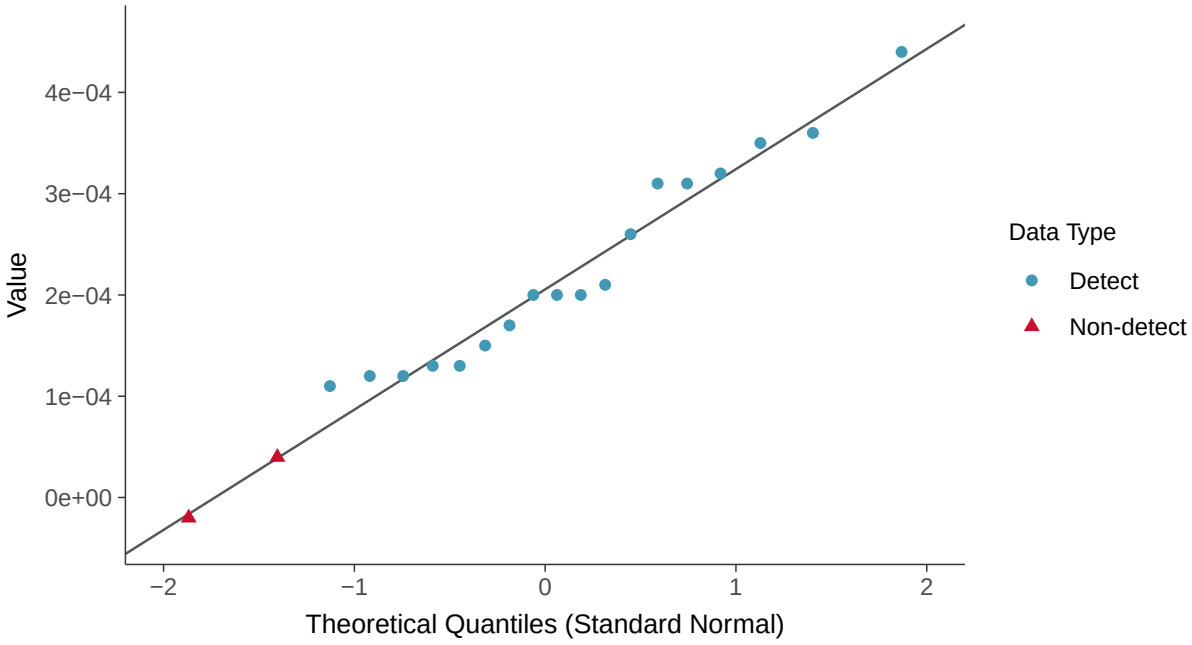
Boxplot by Season

Beryllium, MW-01R (mg/L)



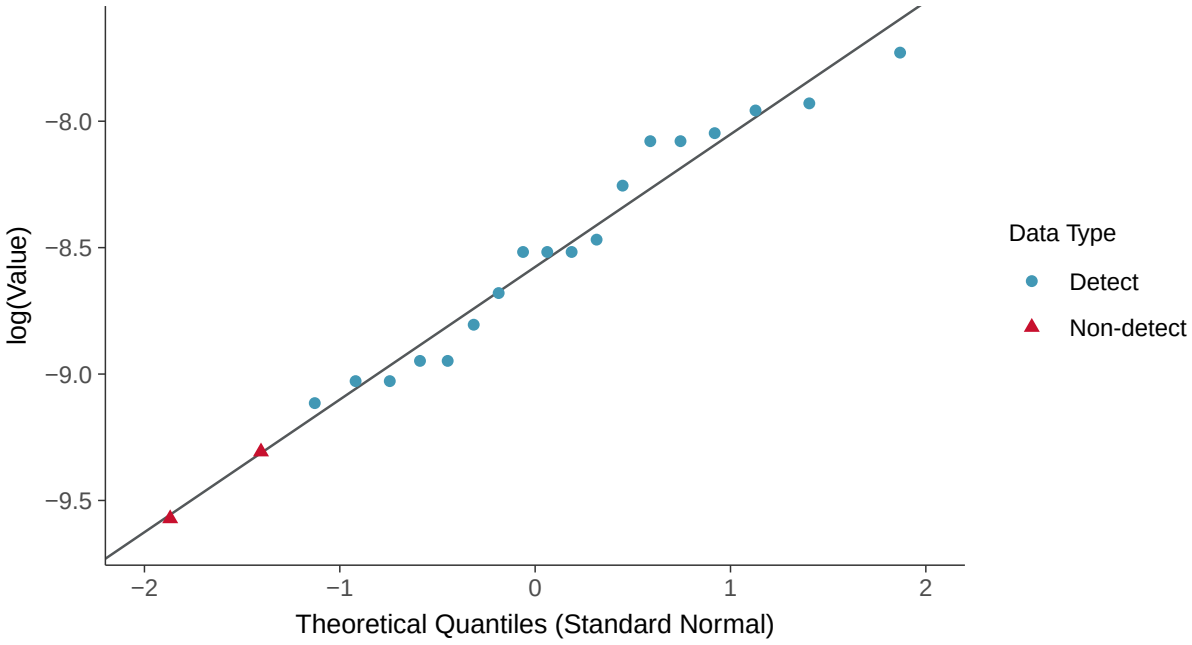
Normal Q-Q plot using ROS Imputed Estimates

Beryllium, MW-01R (mg/L)



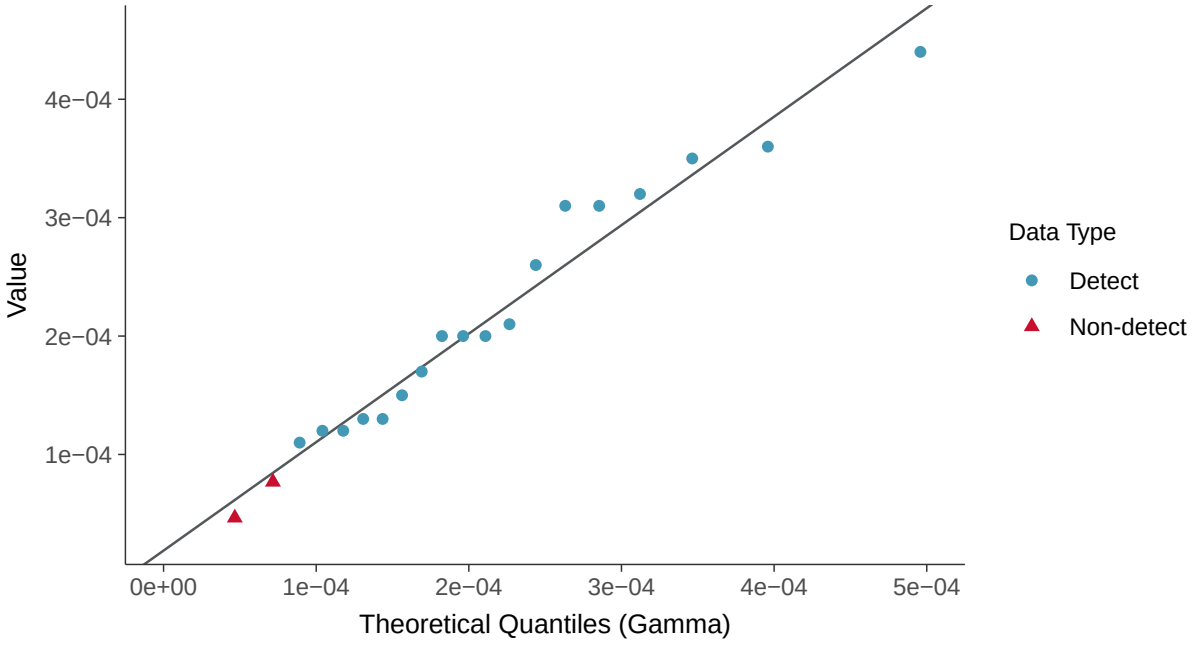
Lognormal Q-Q plot using ROS Imputed Estimates

Beryllium, MW-01R (mg/L)



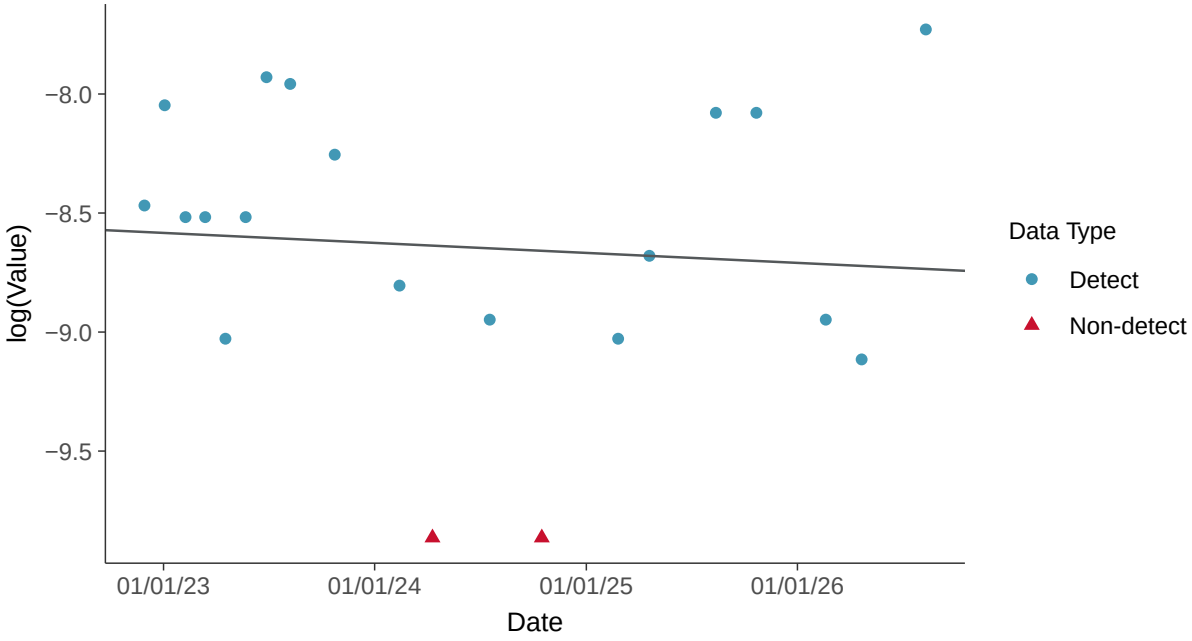
Gamma Q-Q plot using ROS Imputed Estimates

Beryllium, MW-01R (mg/L)



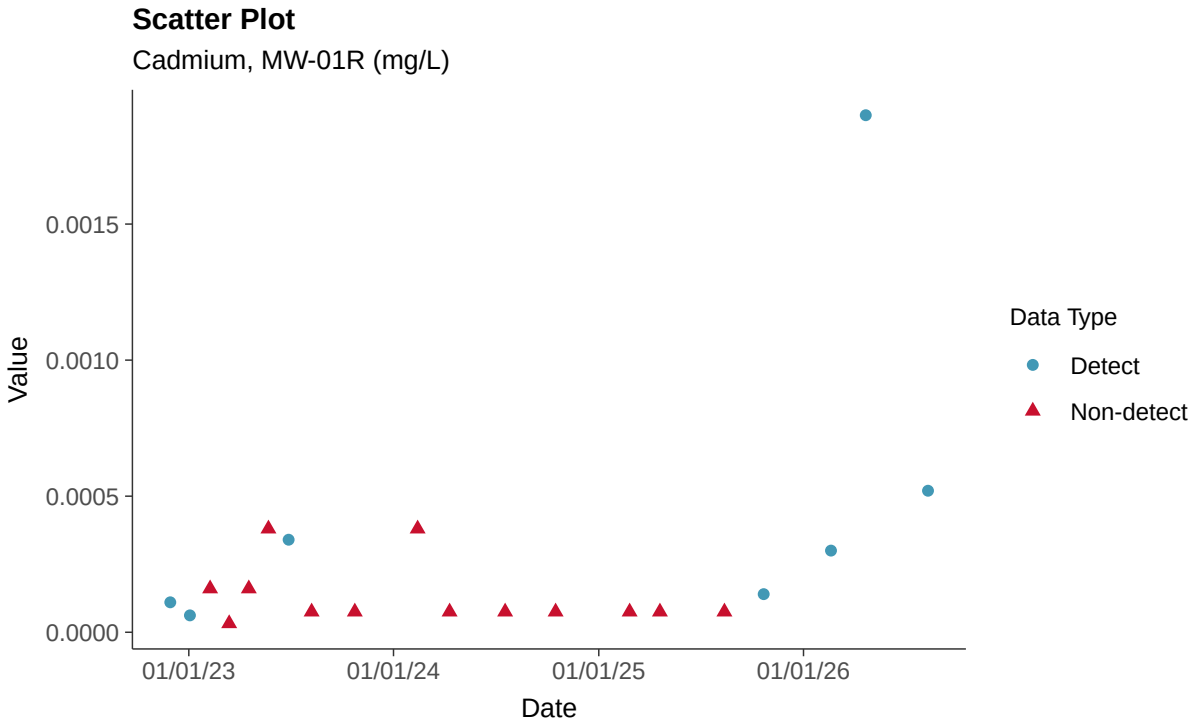
Trend Regression: Lognormal MLE

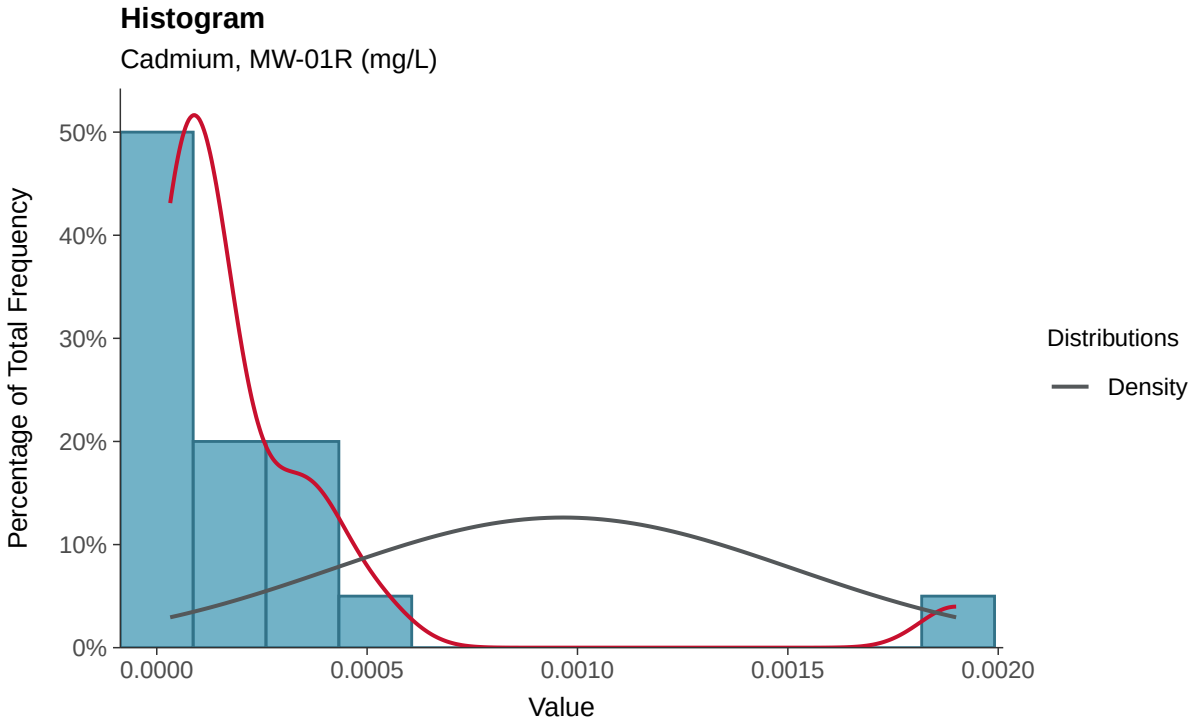
Beryllium, MW-01R (mg/L)



Appendix IV: Cadmium, MW-01R

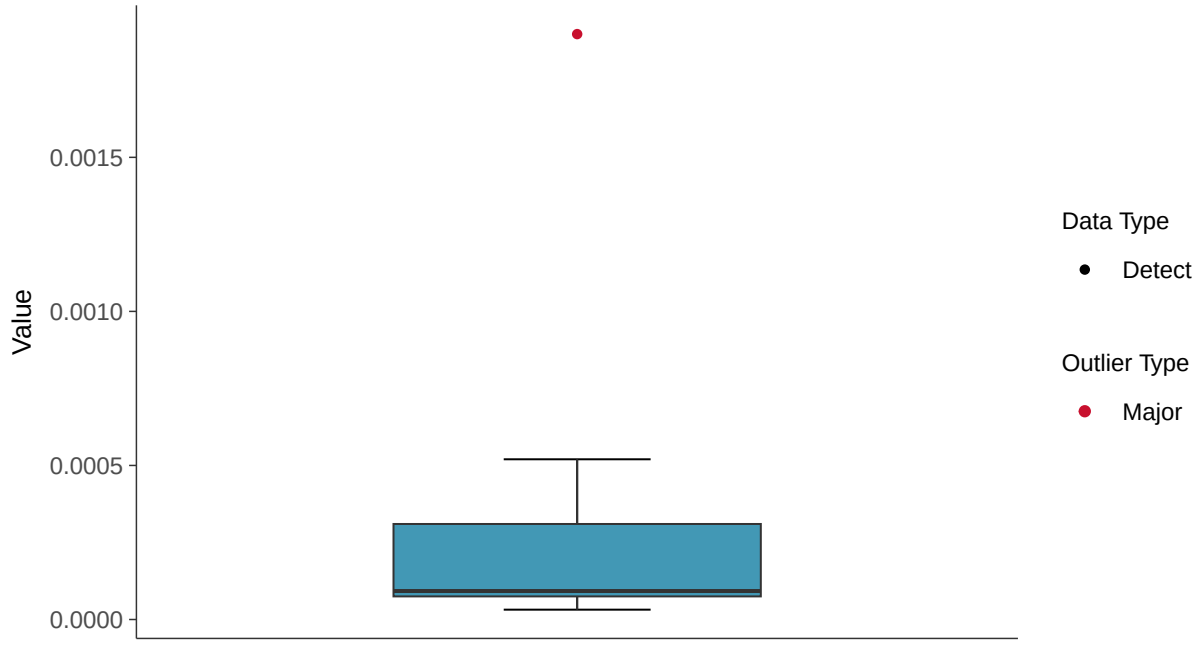
ID: 11_2_4_106





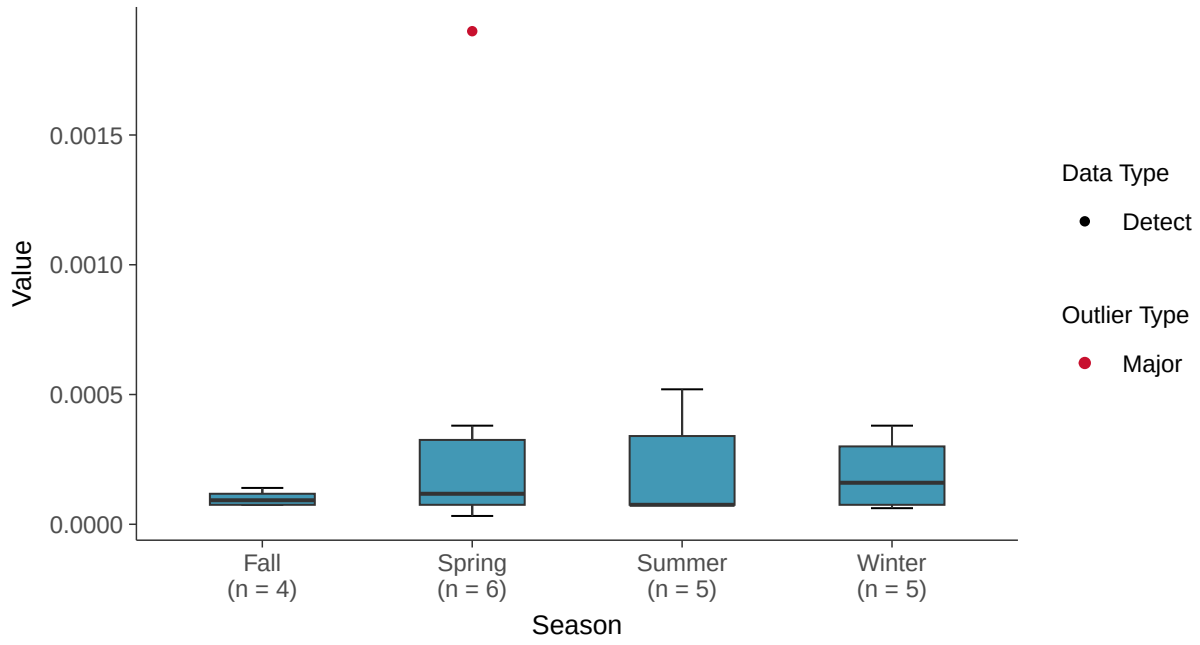
Boxplot

Cadmium, MW-01R (mg/L)



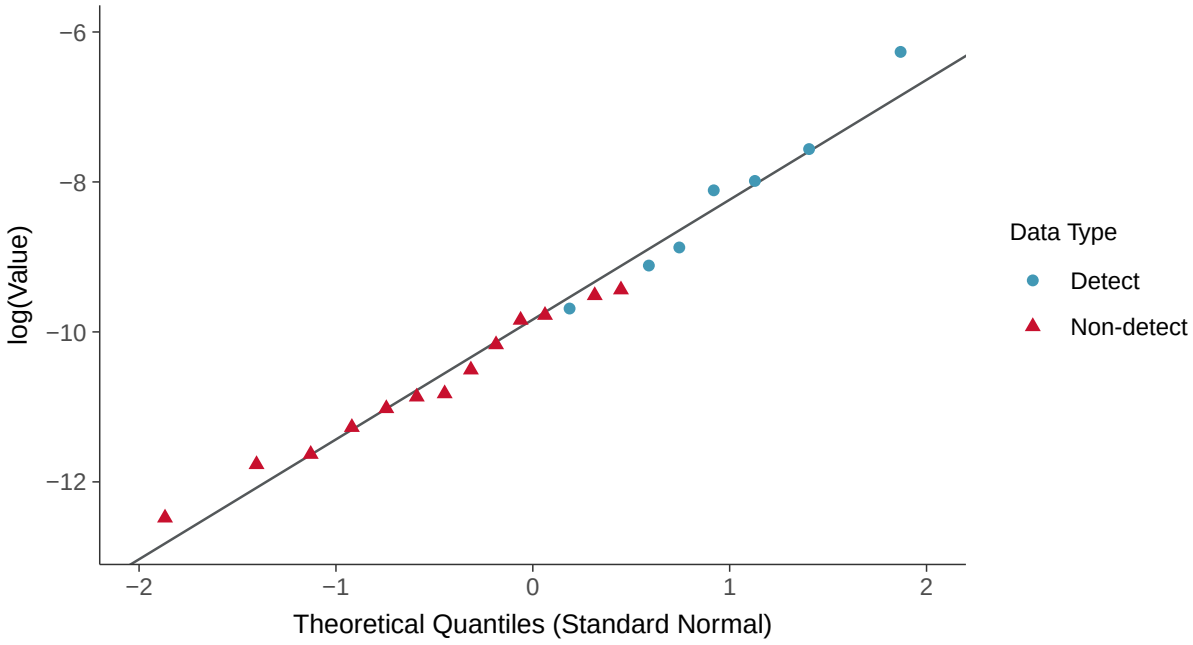
Boxplot by Season

Cadmium, MW-01R (mg/L)



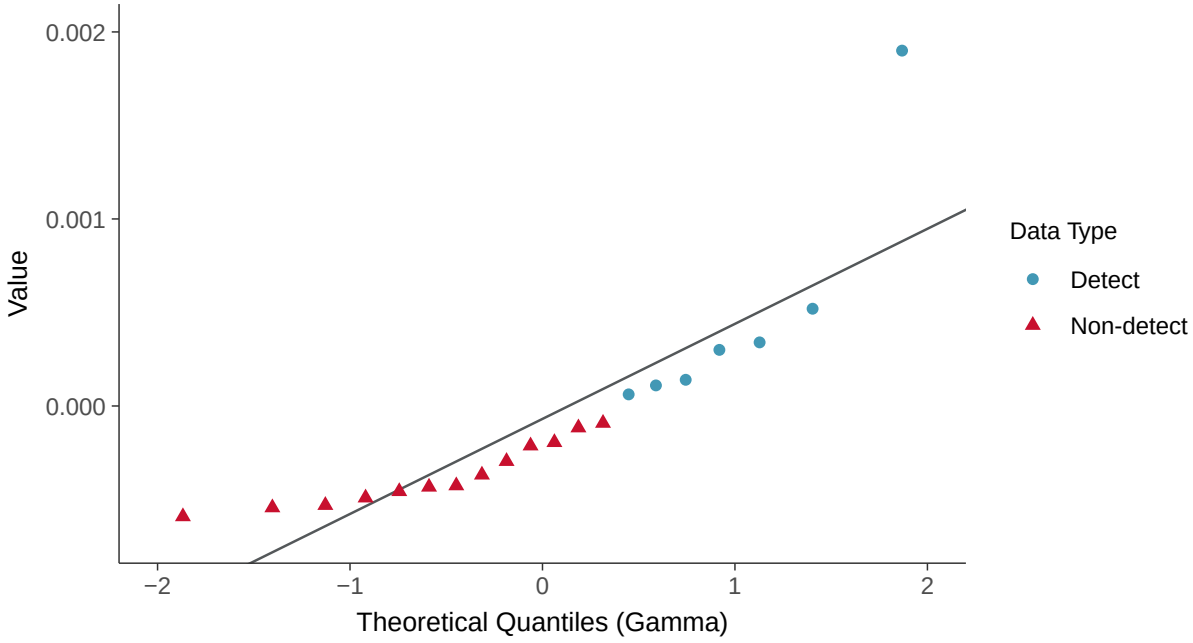
Lognormal Q-Q plot using ROS Imputed Estimates

Cadmium, MW-01R (mg/L)



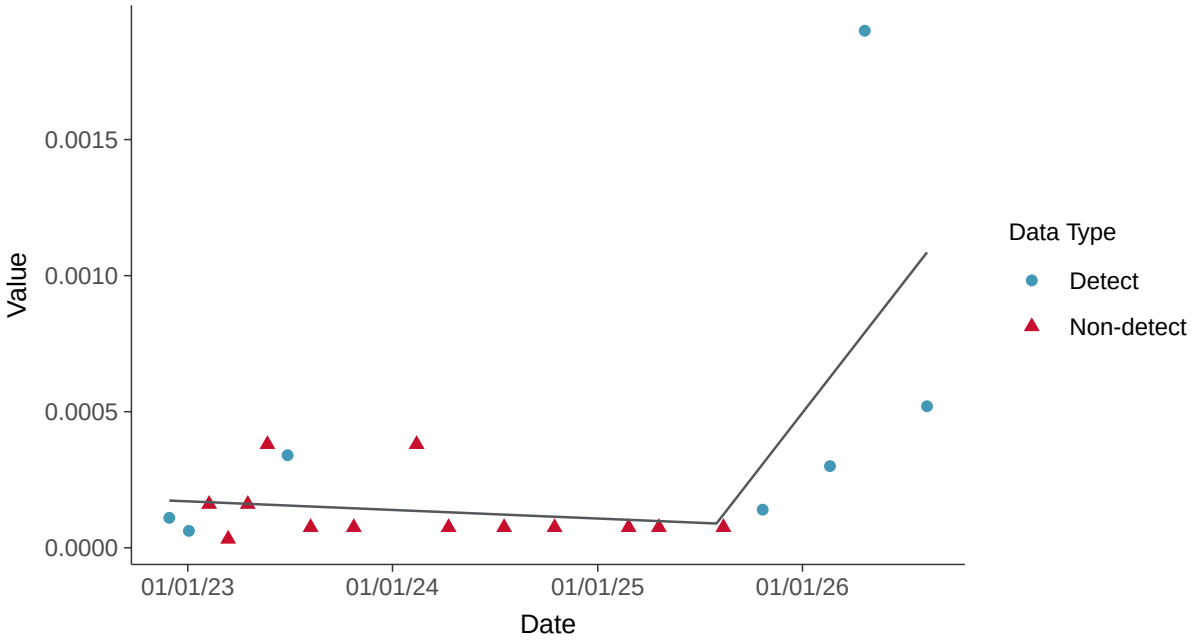
Gamma Q-Q plot using ROS Imputed Estimates

Cadmium, MW-01R (mg/L)



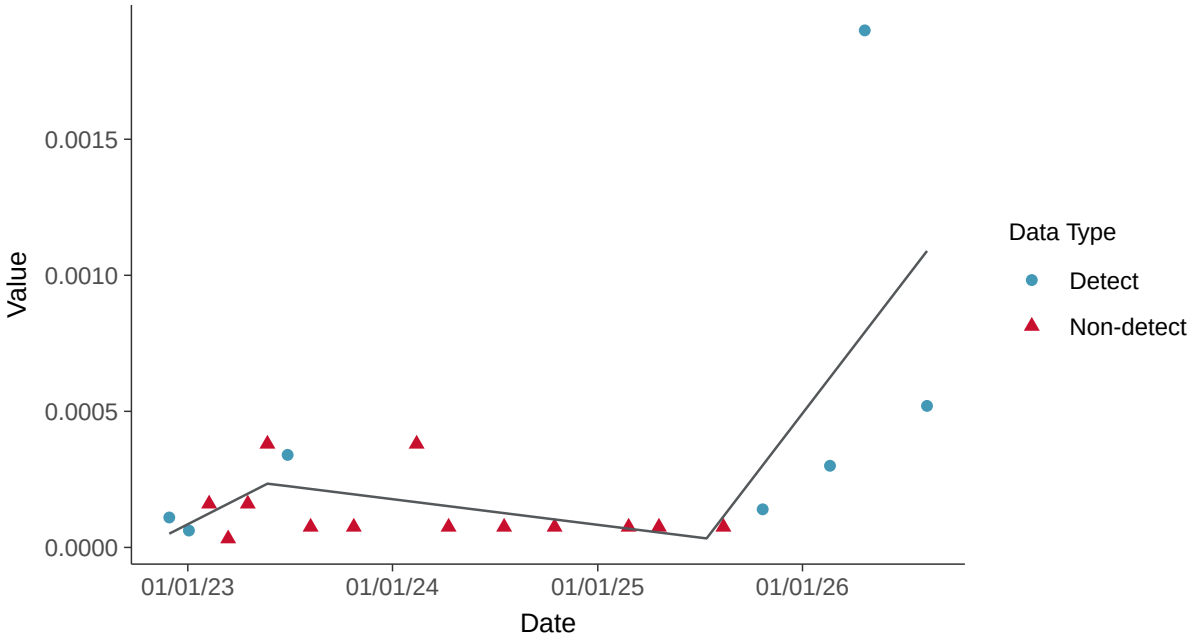
Trend Regression: Piecewise Linear-Linear

Cadmium, MW-01R (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Cadmium, MW-01R (mg/L)

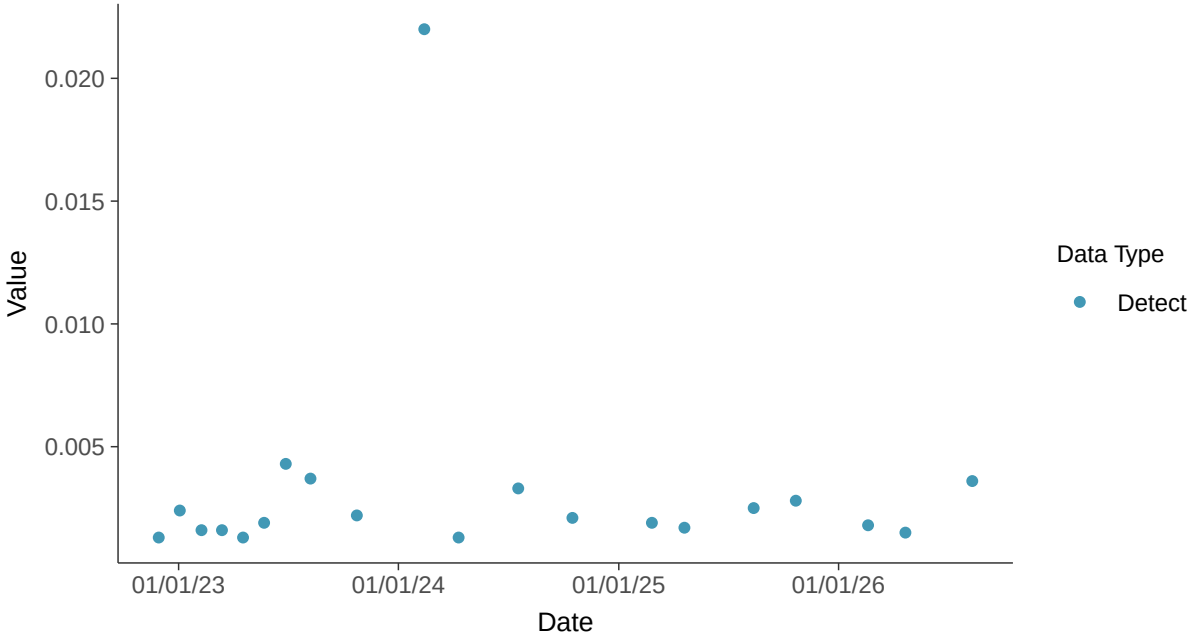


Appendix IV: Chromium, Total, MW-01R

ID: 11_2_4_109

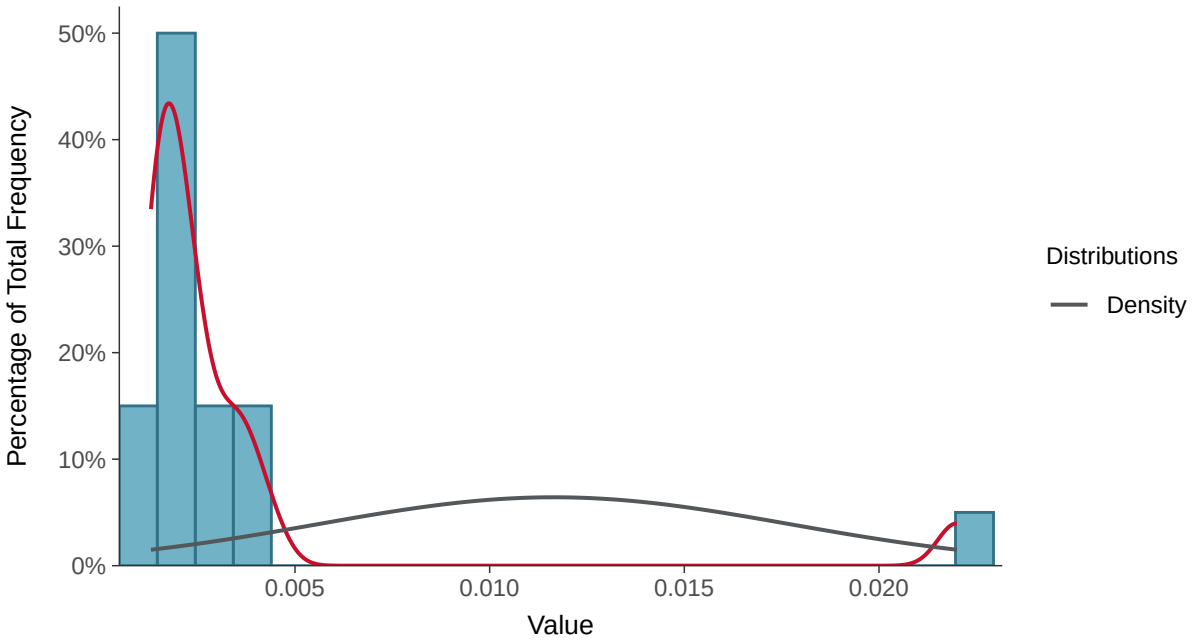
Scatter Plot

Chromium, Total, MW-01R (mg/L)



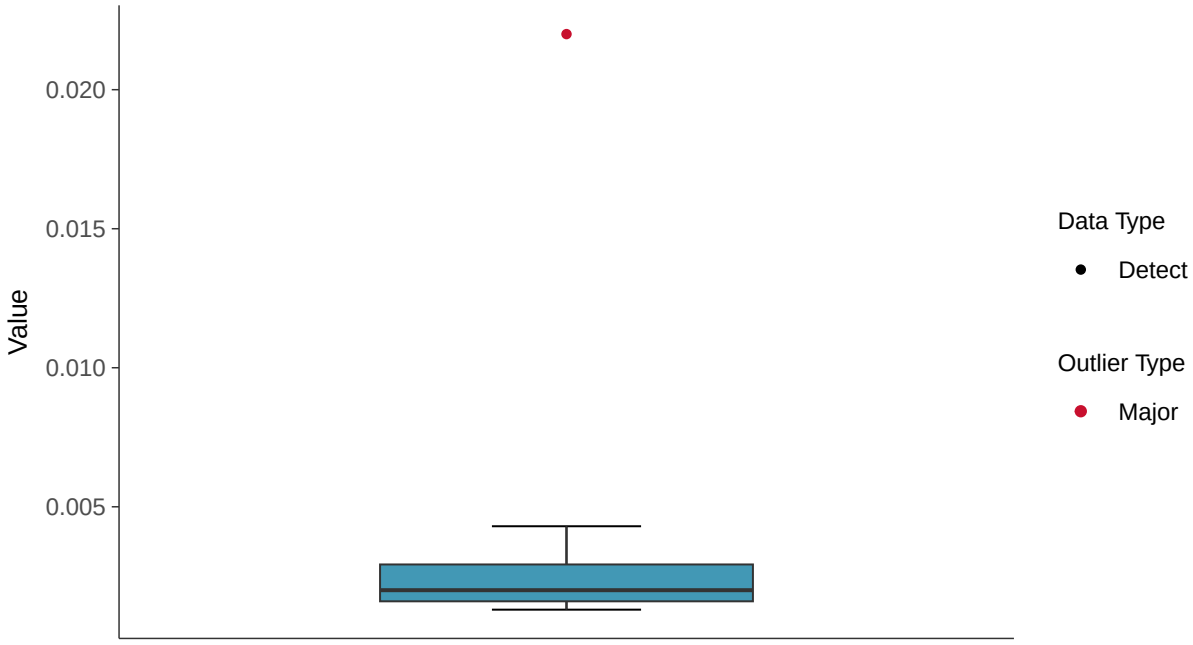
Histogram

Chromium, Total, MW-01R (mg/L)



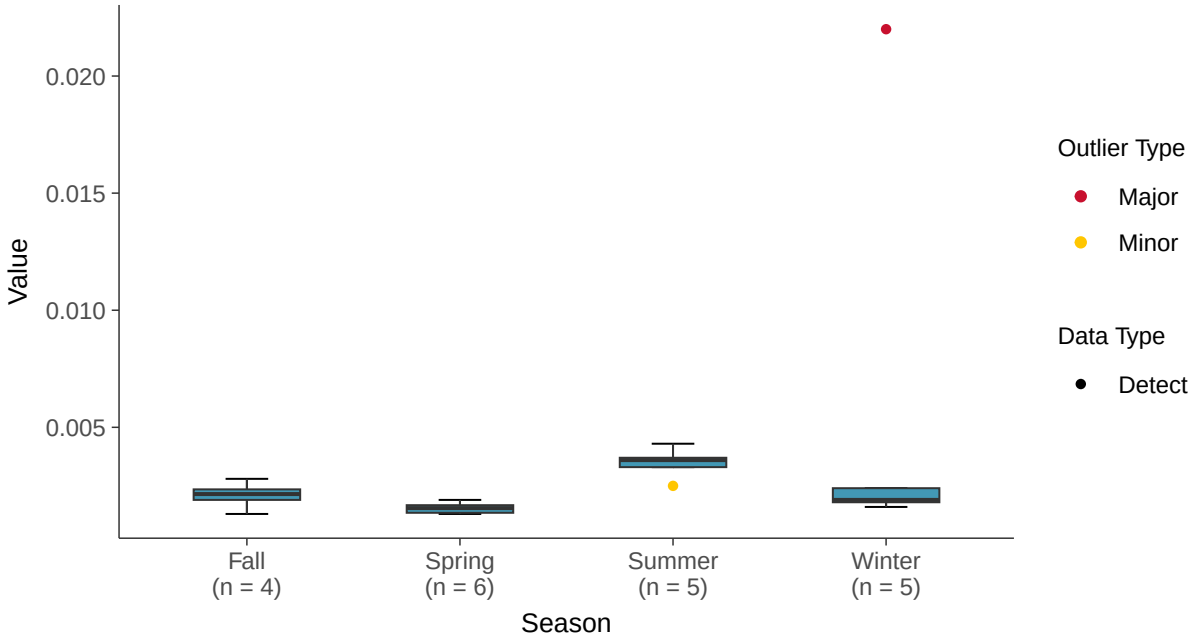
Boxplot

Chromium, Total, MW-01R (mg/L)



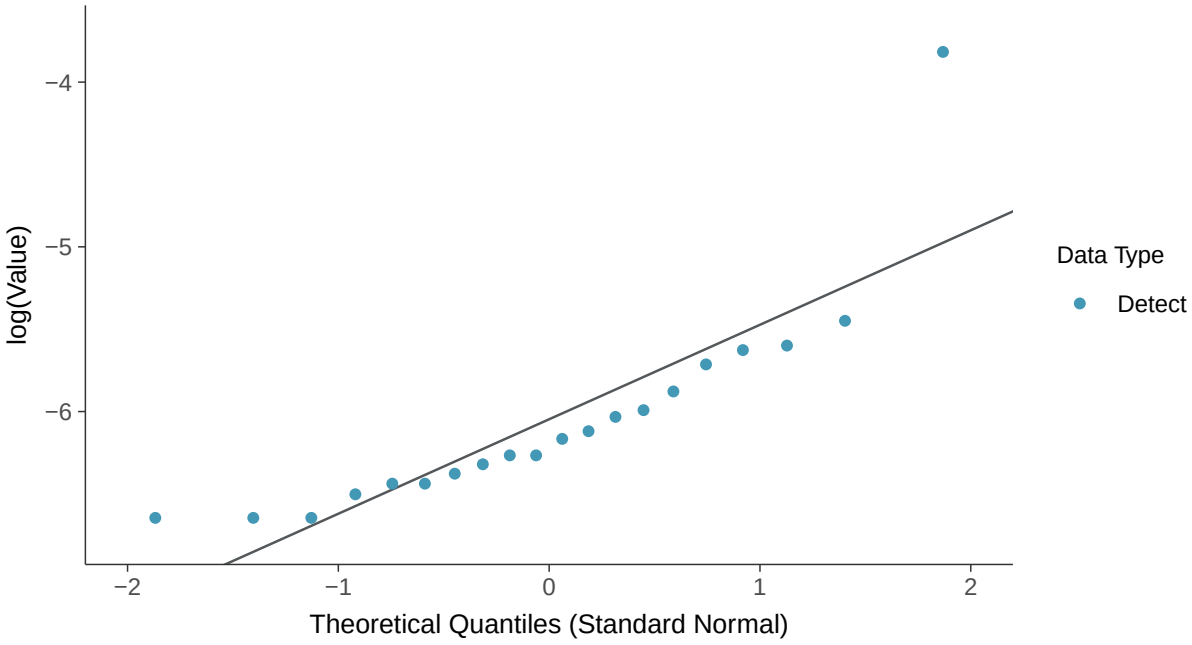
Boxplot by Season

Chromium, Total, MW-01R (mg/L)



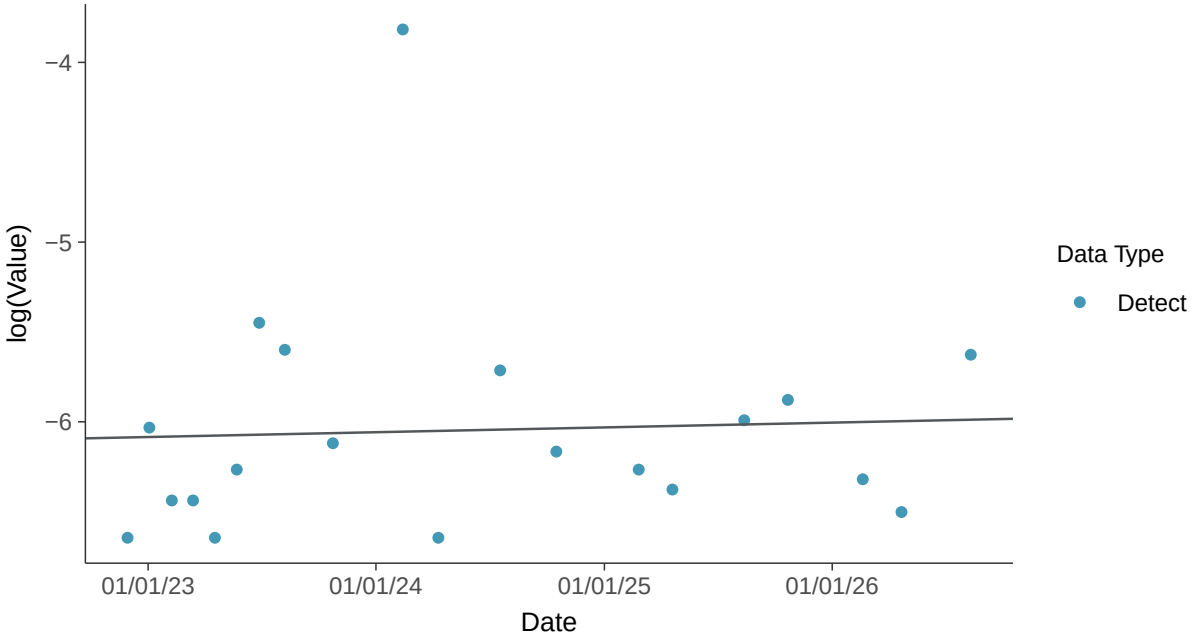
Lognormal Q-Q plot

Chromium, Total, MW-01R (mg/L)



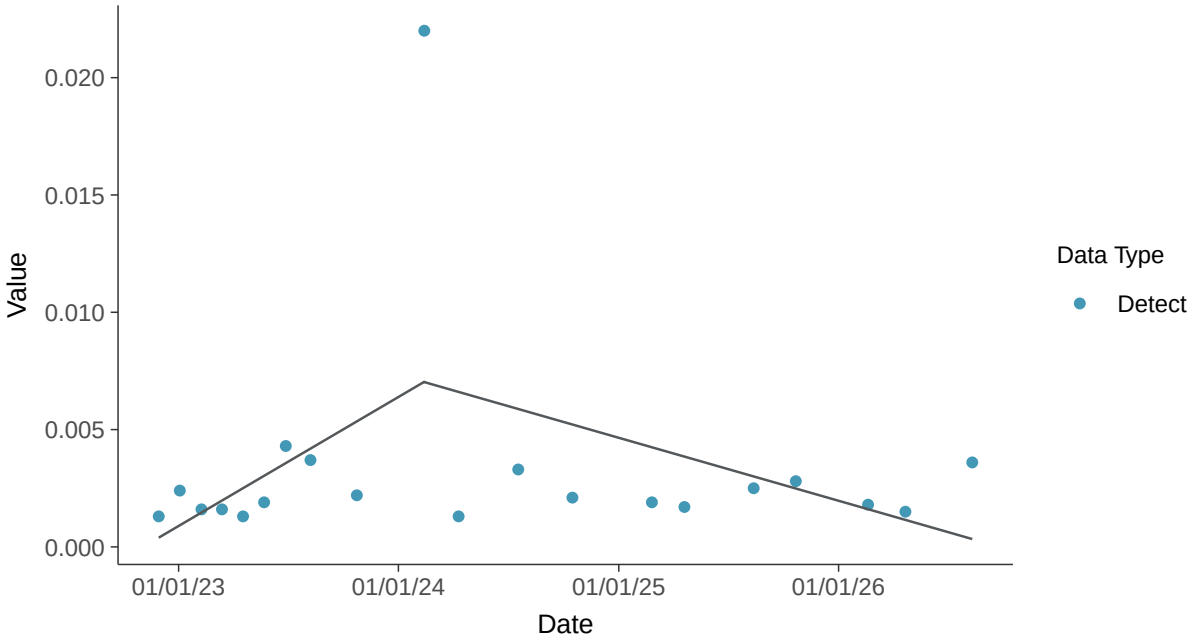
Trend Regression: Lognormal MLE

Chromium, Total, MW-01R (mg/L)



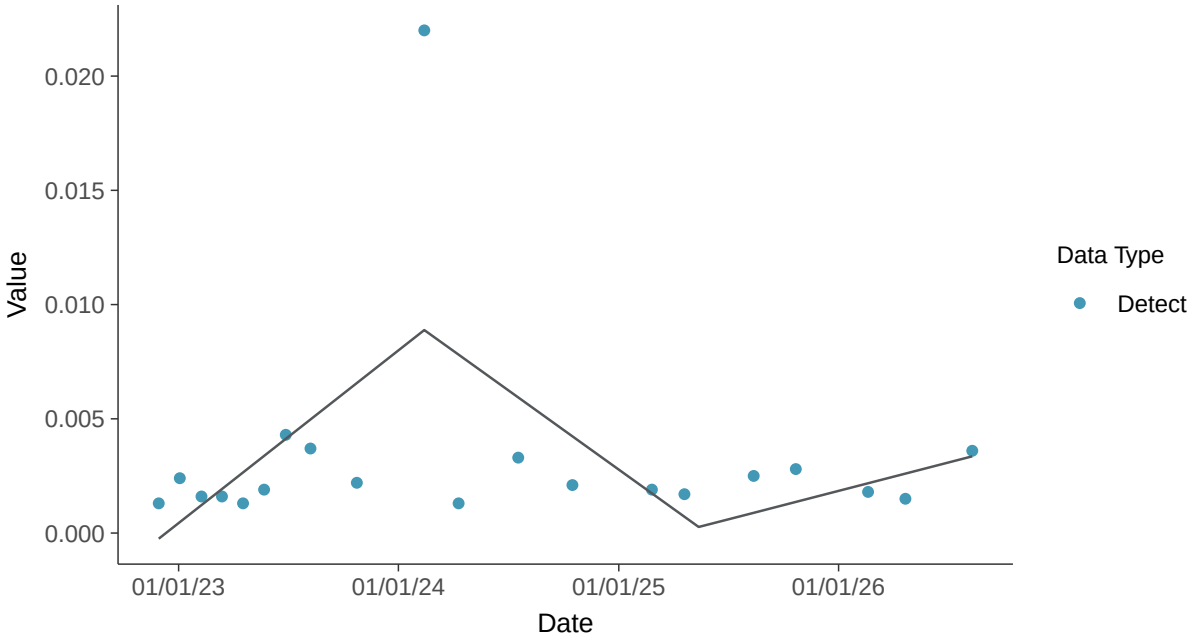
Trend Regression: Piecewise Linear-Linear

Chromium, Total, MW-01R (mg/L)



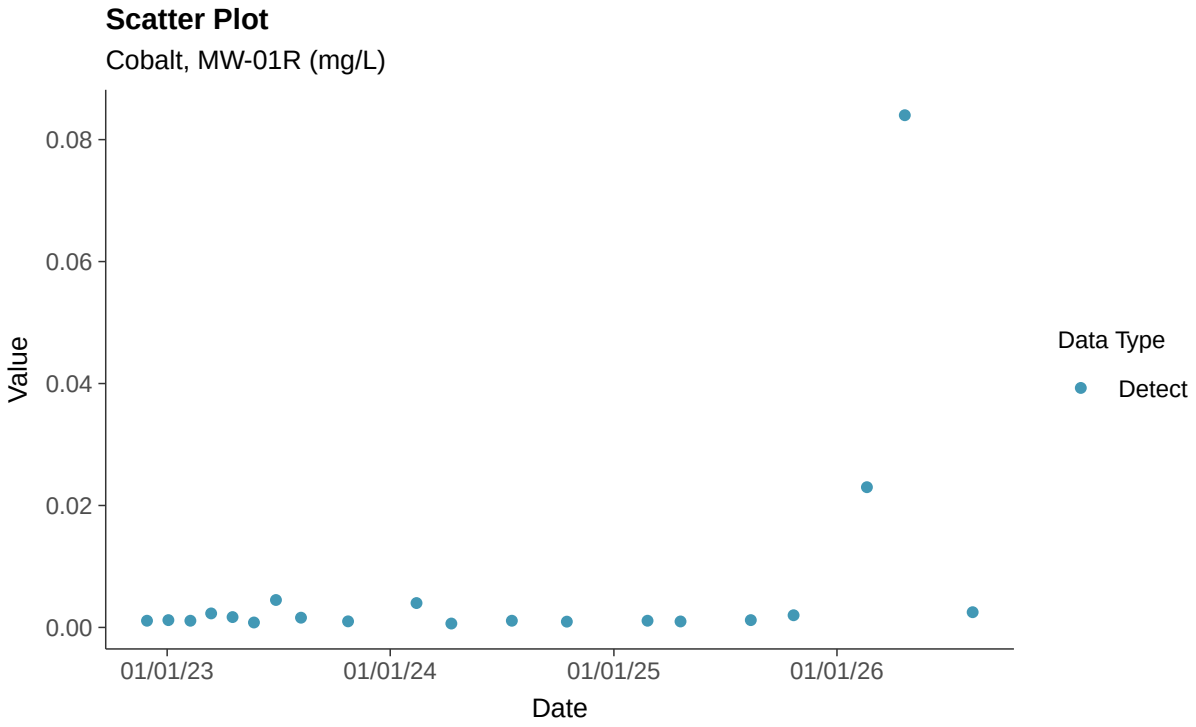
Trend Regression: Piecewise Linear-Linear-Linear

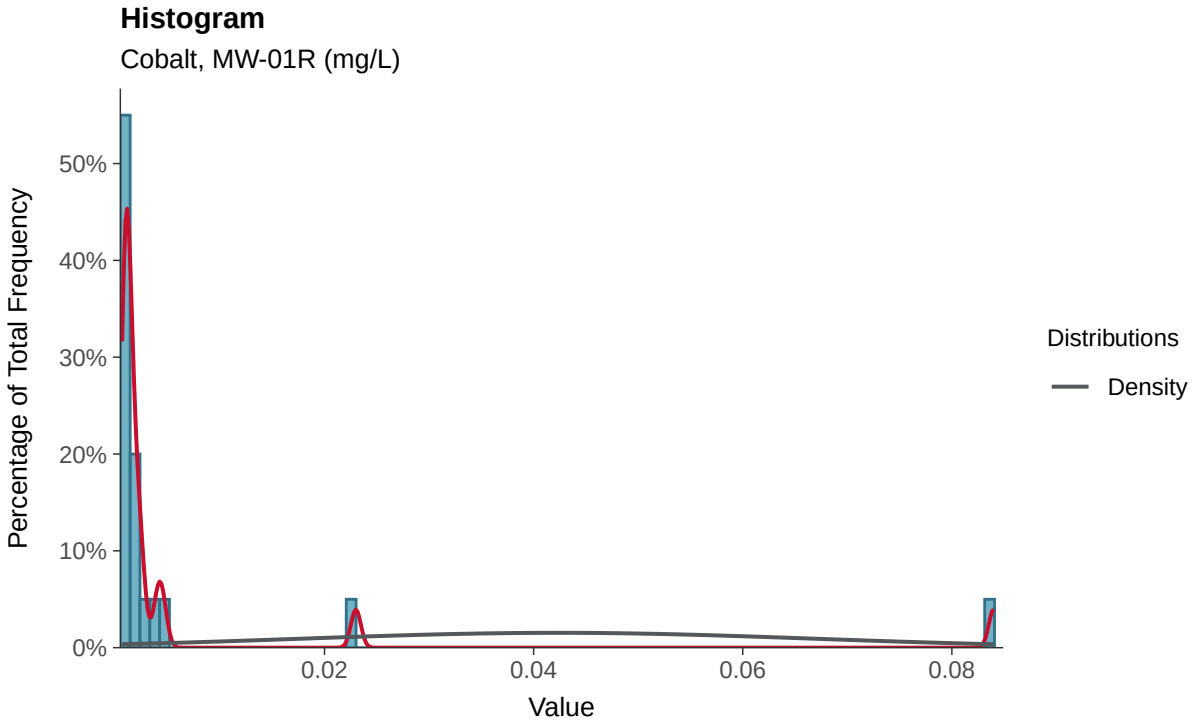
Chromium, Total, MW-01R (mg/L)



Appendix IV: Cobalt, MW-01R

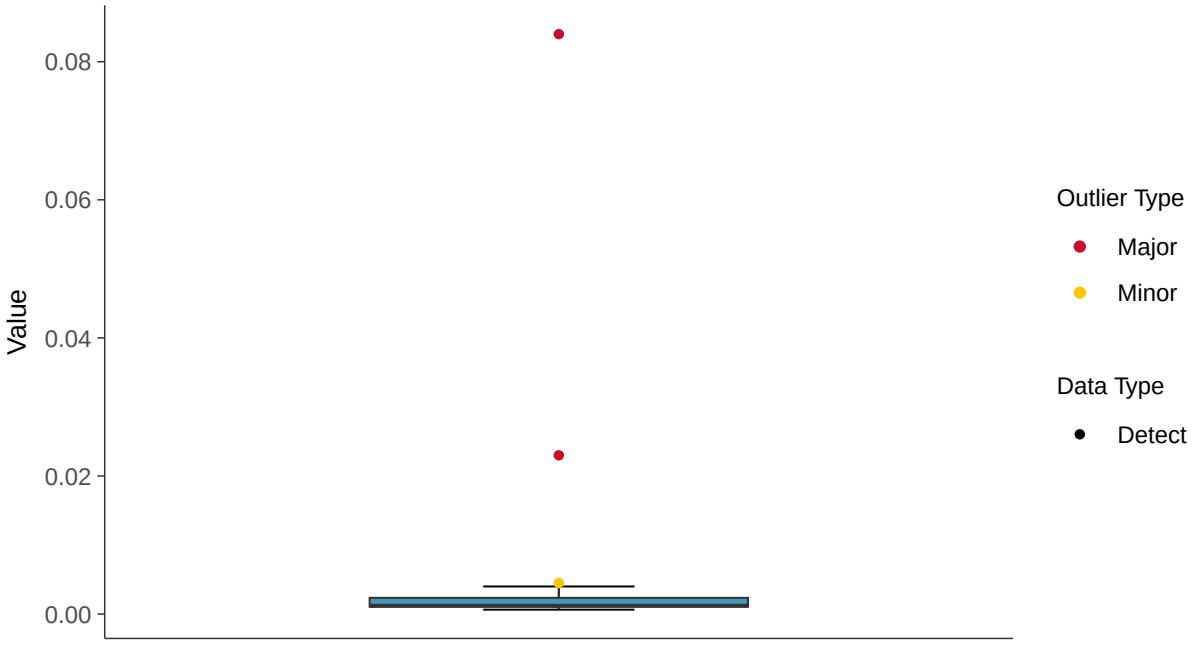
ID: 11_2_4_110





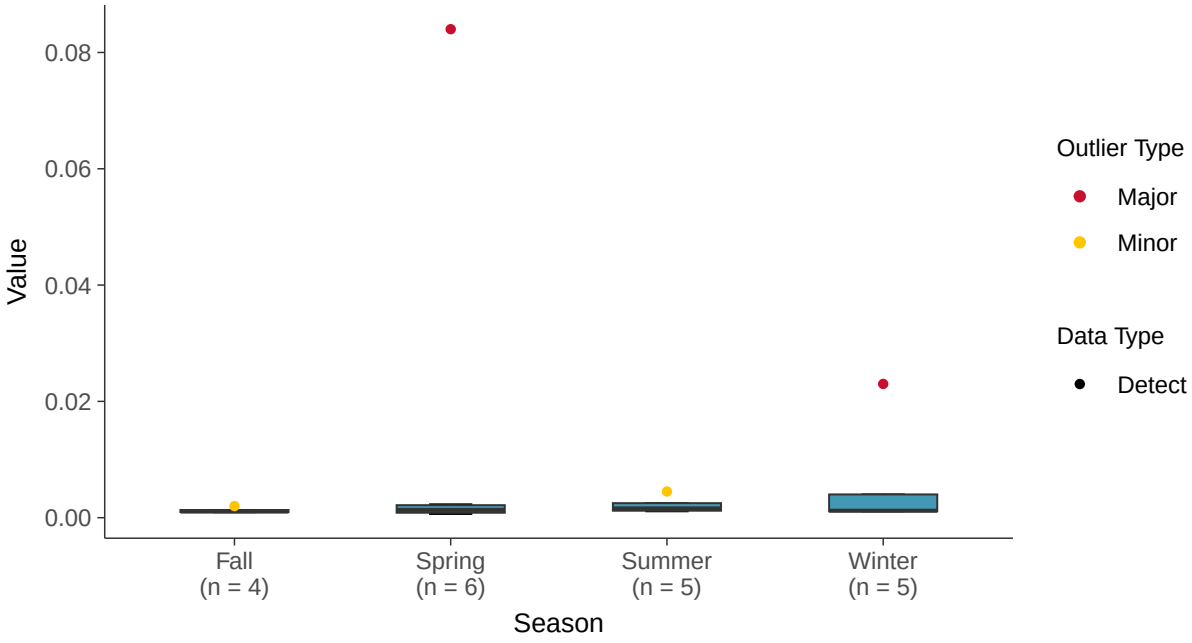
Boxplot

Cobalt, MW-01R (mg/L)



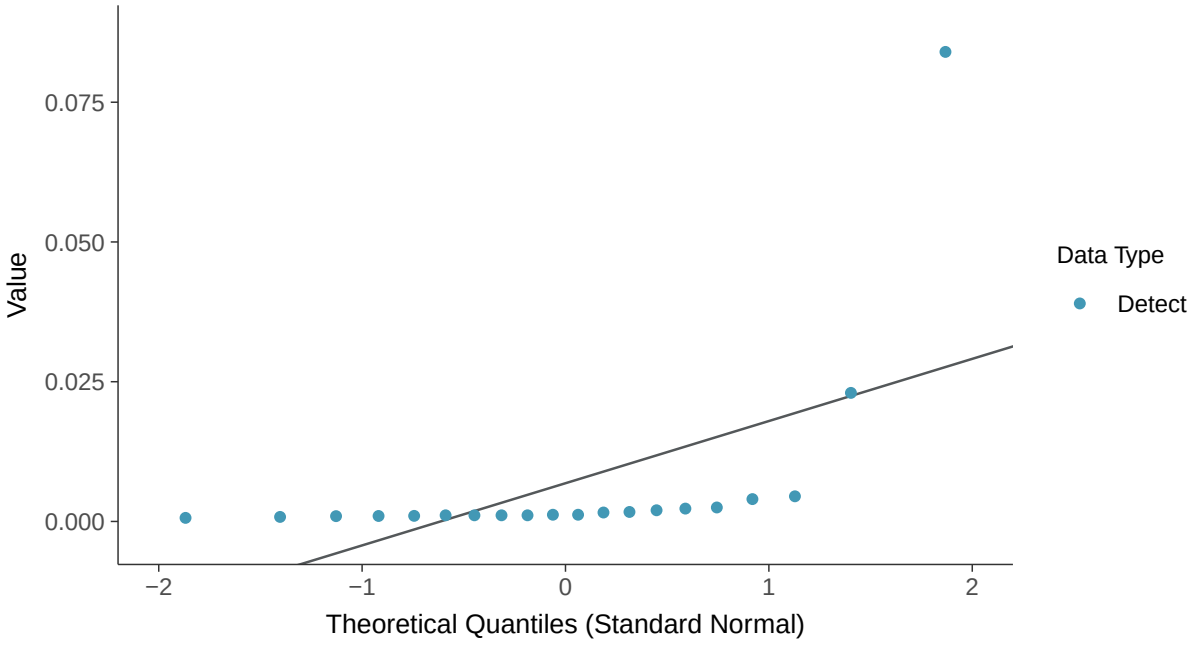
Boxplot by Season

Cobalt, MW-01R (mg/L)



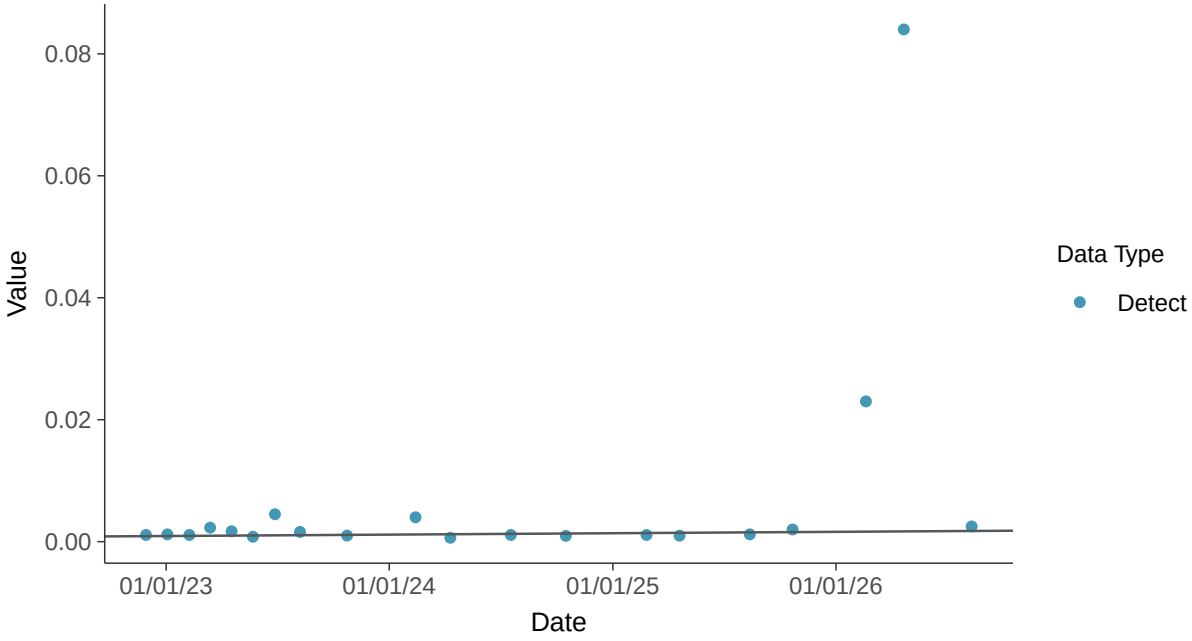
Normal Q-Q plot

Cobalt, MW-01R (mg/L)



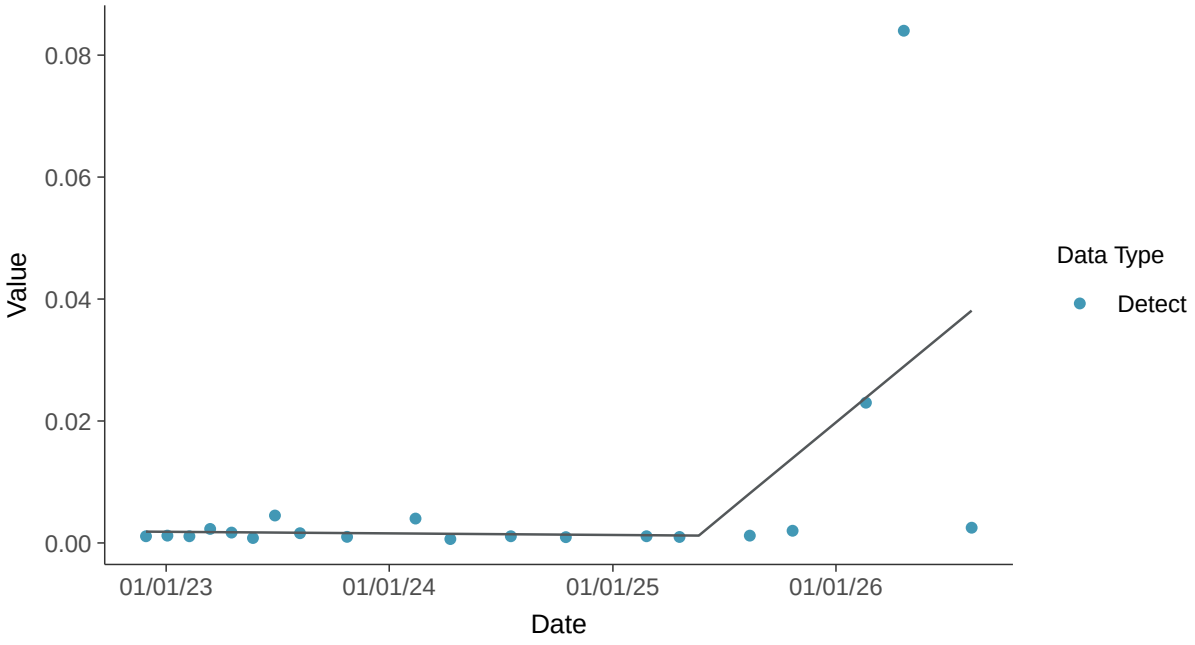
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Cobalt, MW-01R (mg/L)



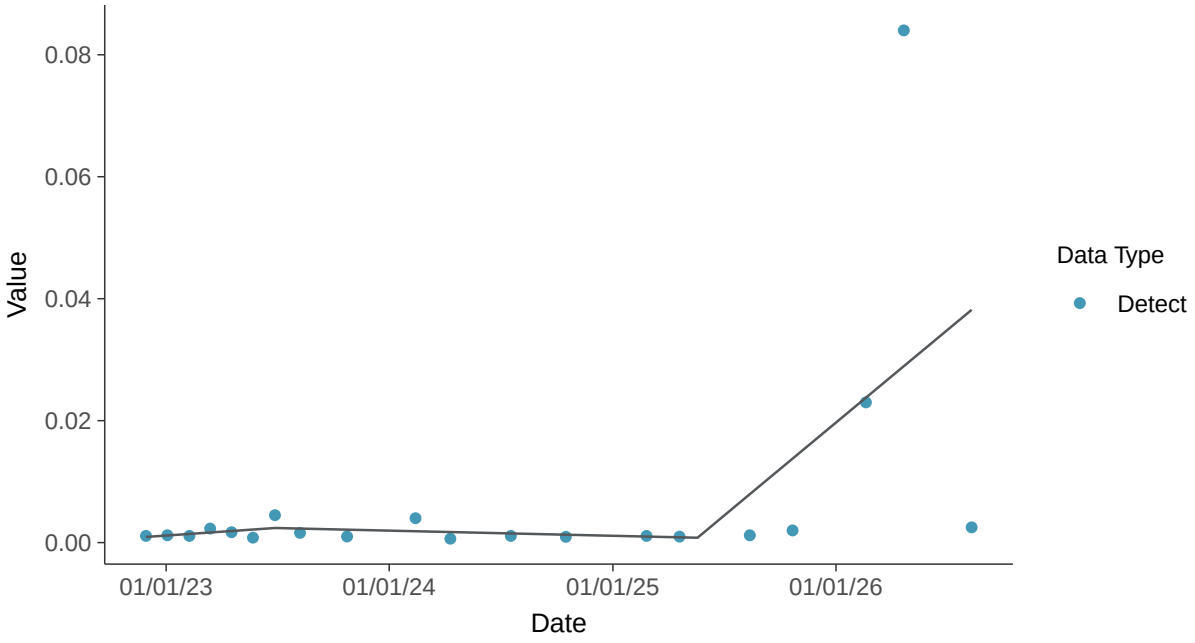
Trend Regression: Piecewise Linear-Linear

Cobalt, MW-01R (mg/L)



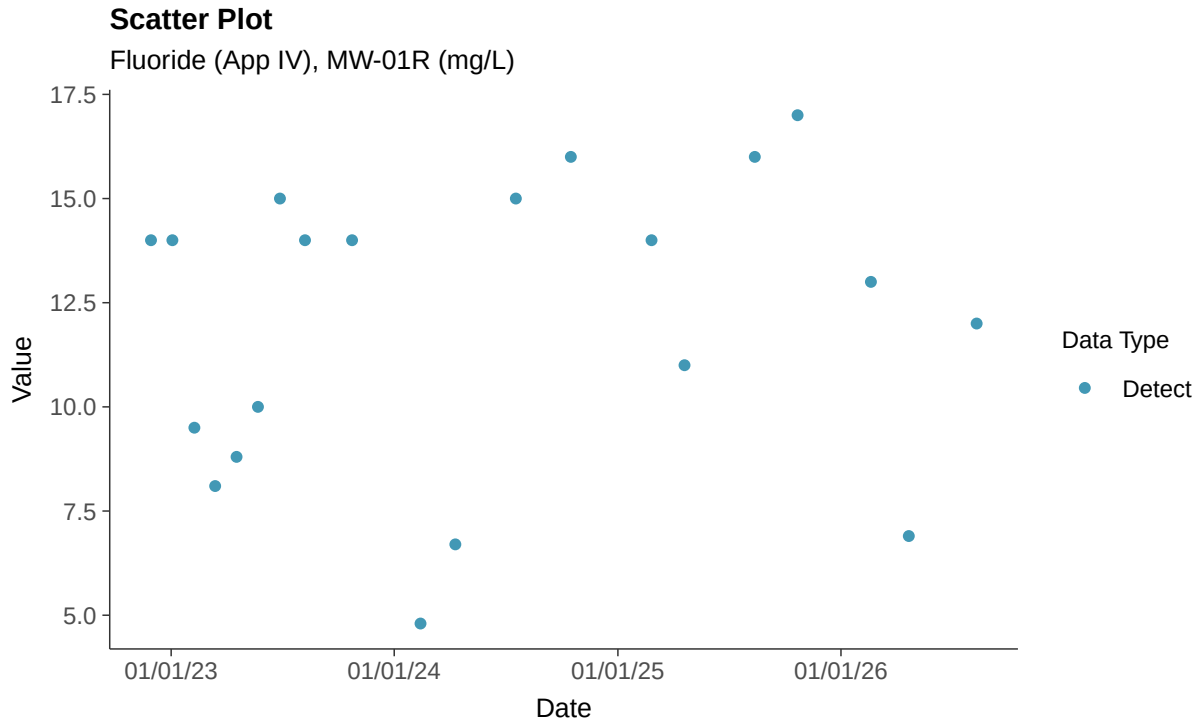
Trend Regression: Piecewise Linear-Linear-Linear

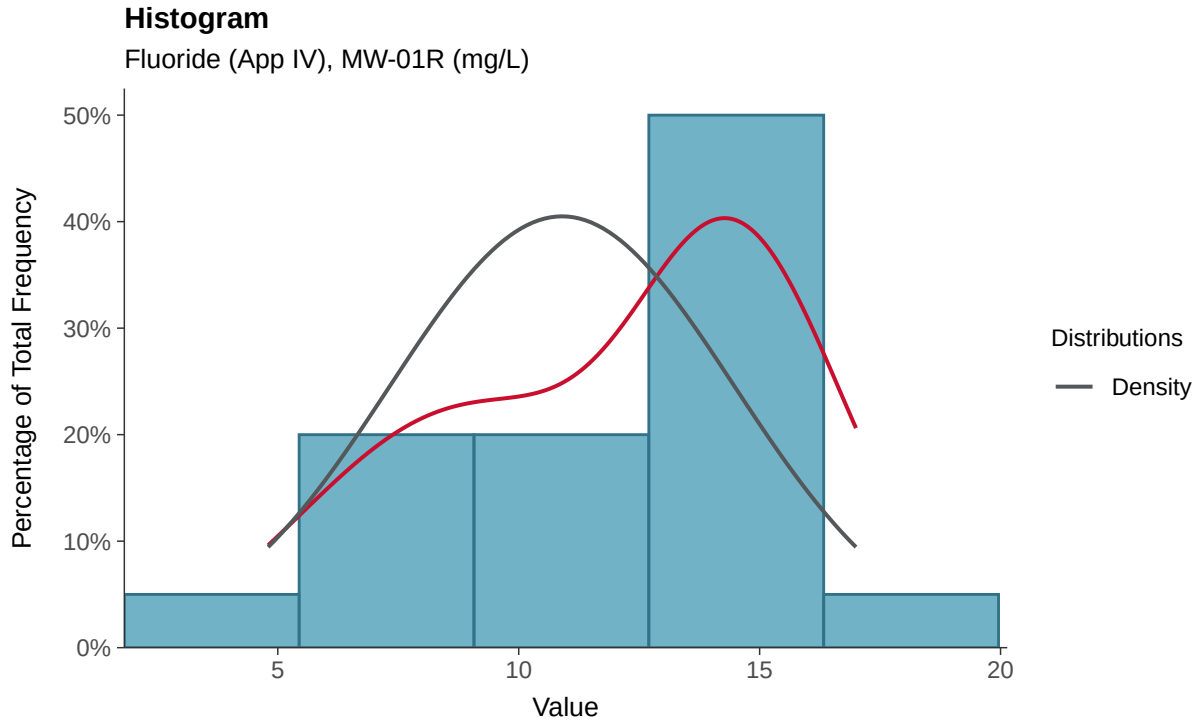
Cobalt, MW-01R (mg/L)



Appendix IV: Fluoride (App IV), MW-01R

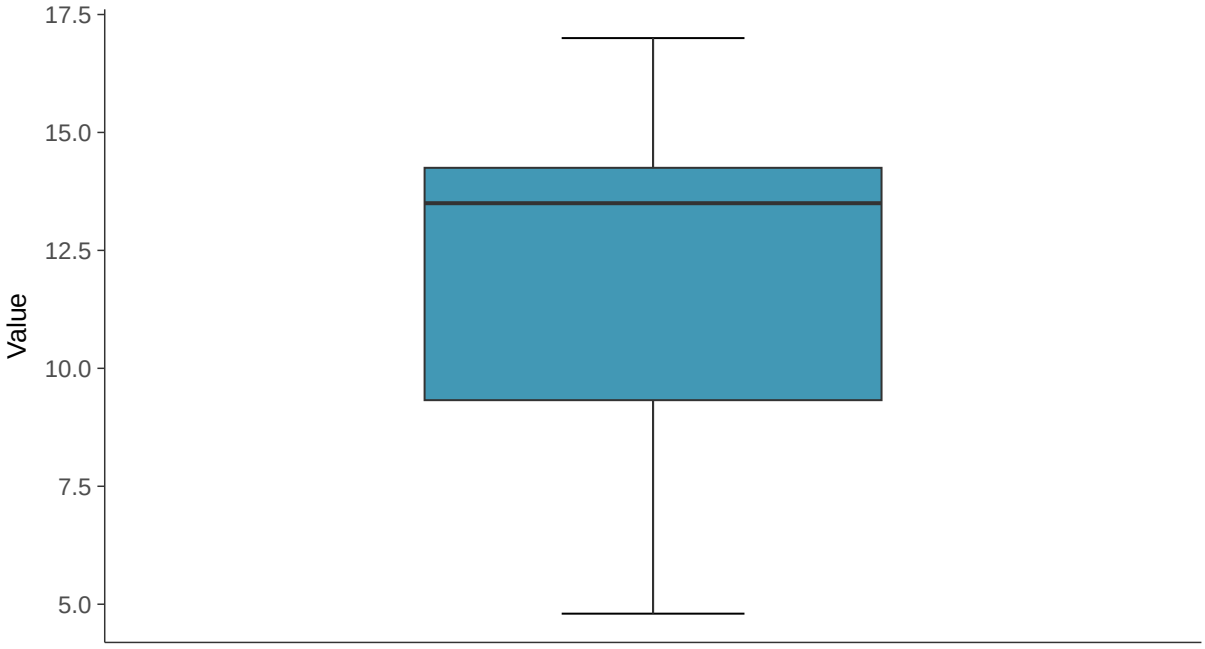
ID: 11_2_4_113





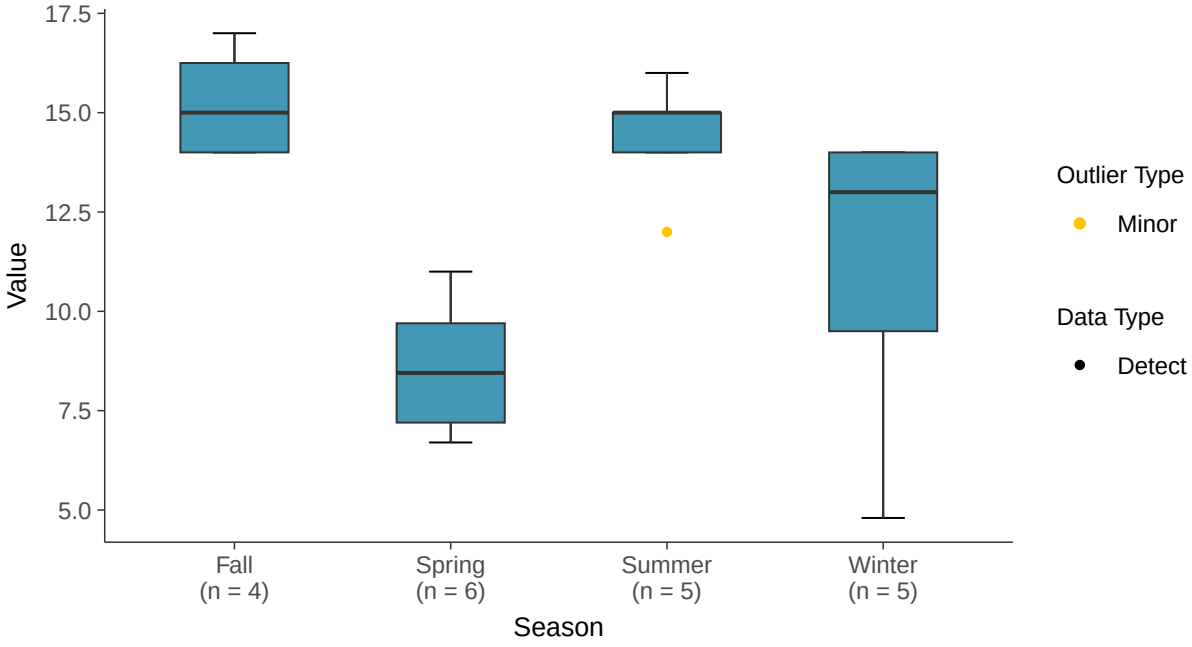
Boxplot

Fluoride (App IV), MW-01R (mg/L)



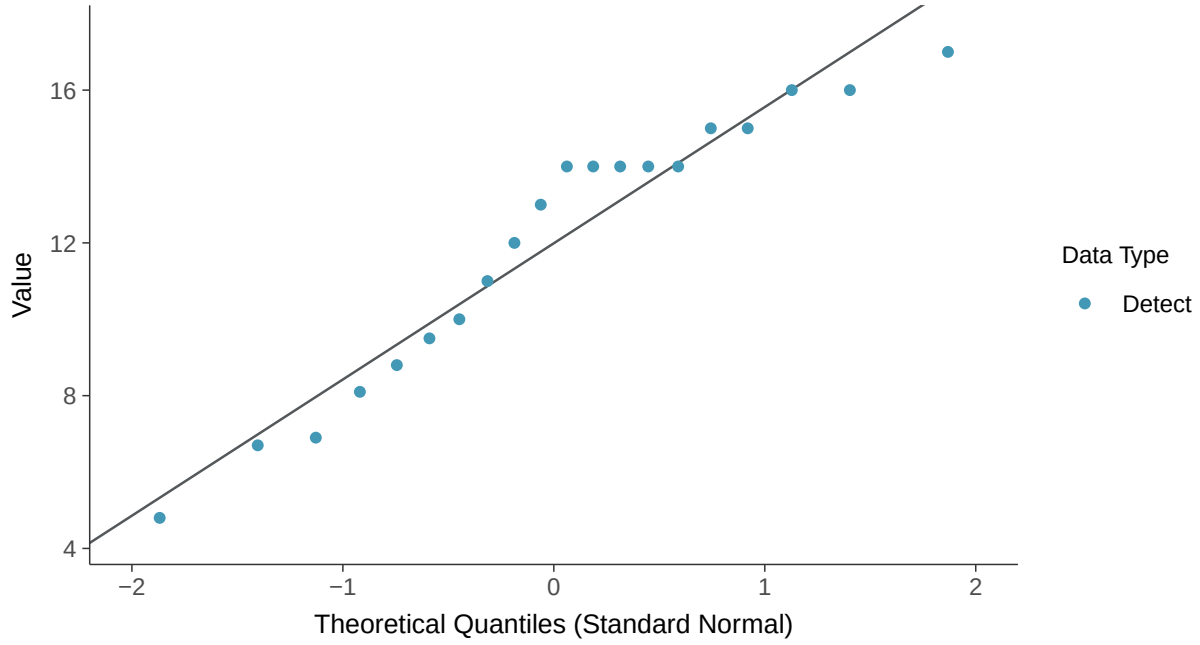
Boxplot by Season

Fluoride (App IV), MW-01R (mg/L)



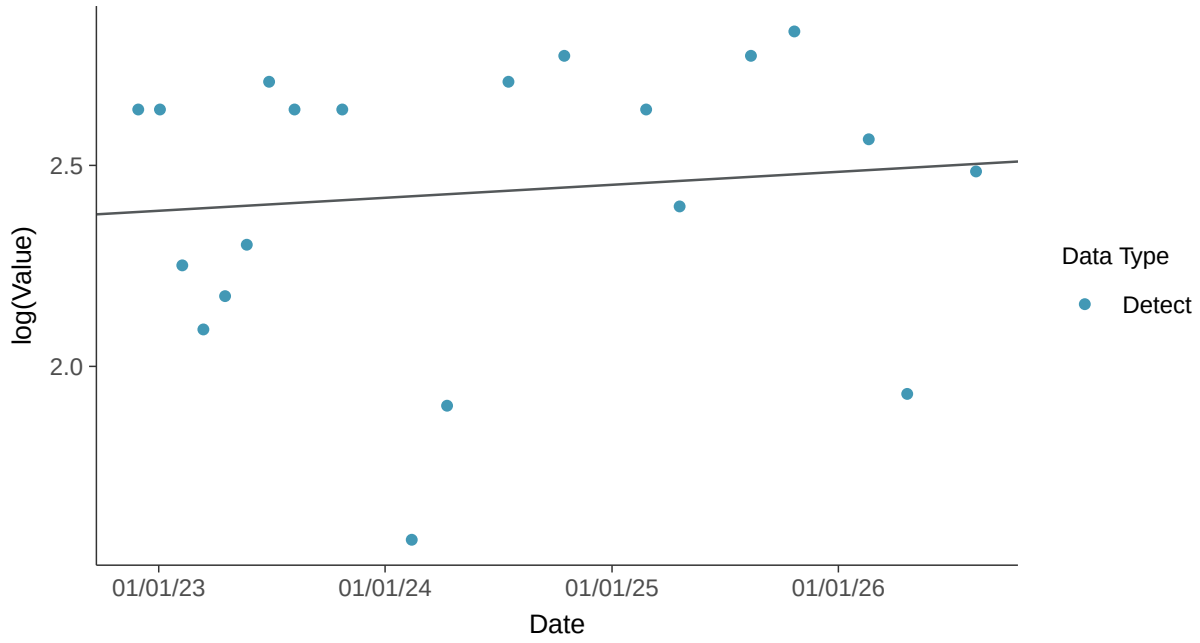
Normal Q-Q plot

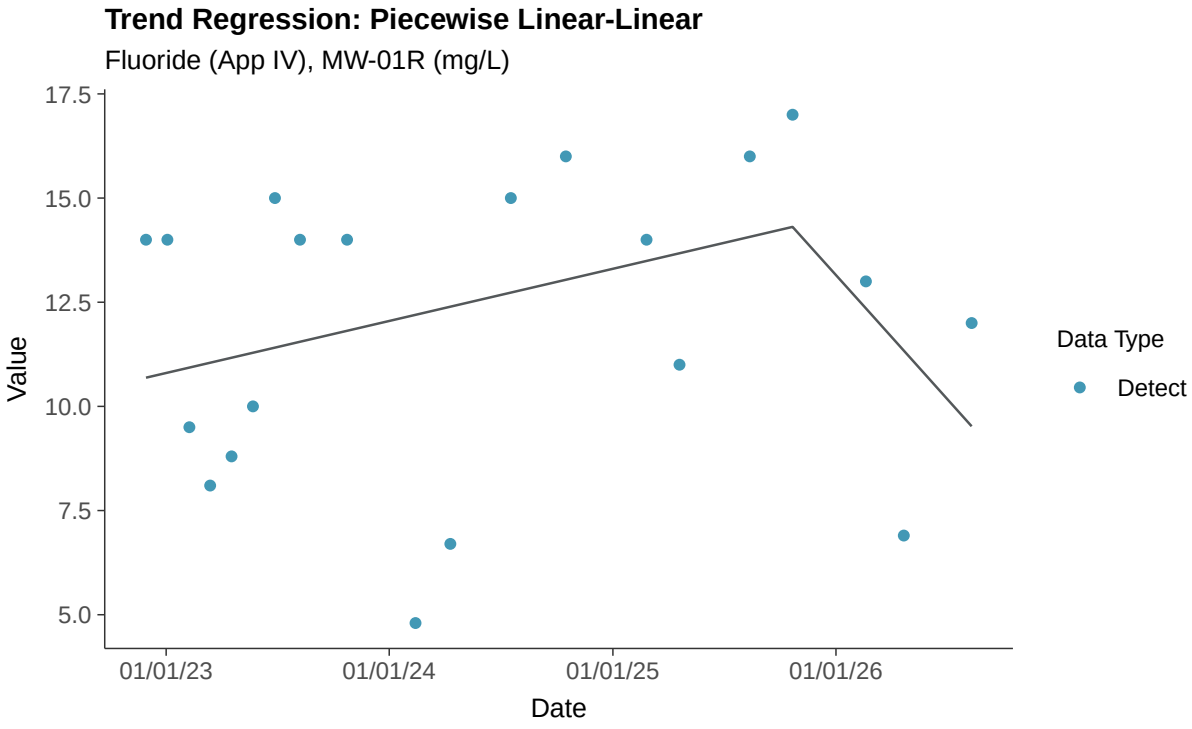
Fluoride (App IV), MW-01R (mg/L)



Trend Regression: Lognormal MLE

Fluoride (App IV), MW-01R (mg/L)



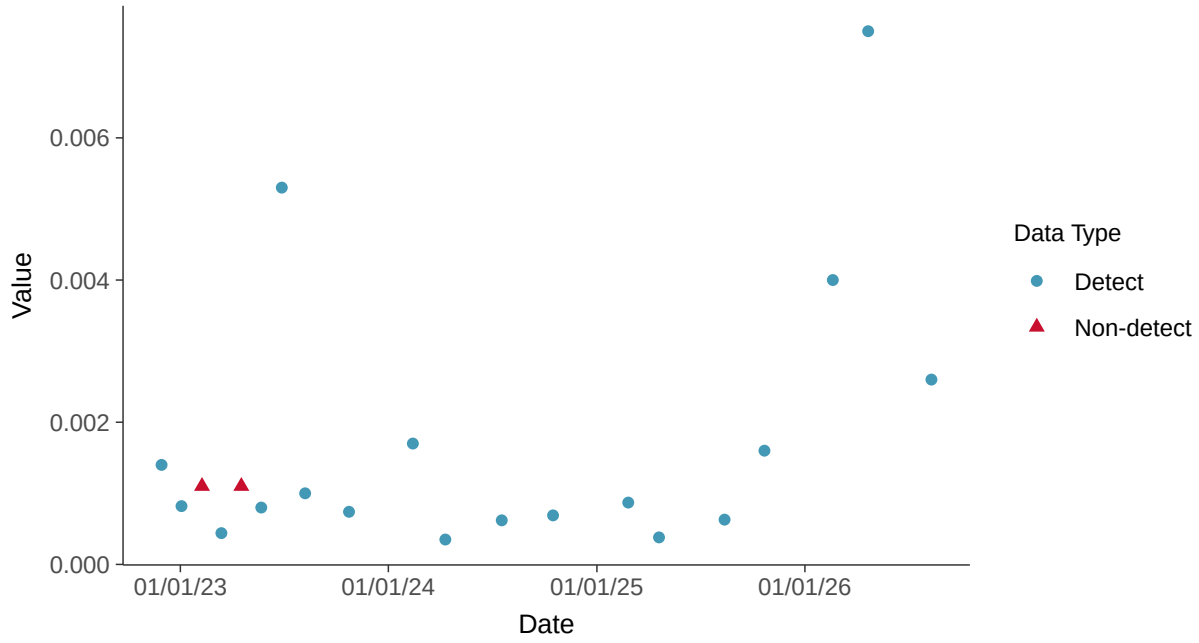

Trend Regression: Piecewise Linear-Linear
Fluoride (App IV), MW-01R (mg/L)
17.5
15.0
12.5
10.0
7.5
5.0
Value
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect

Appendix IV: Lead, MW-01R

ID: 11_2_4_115

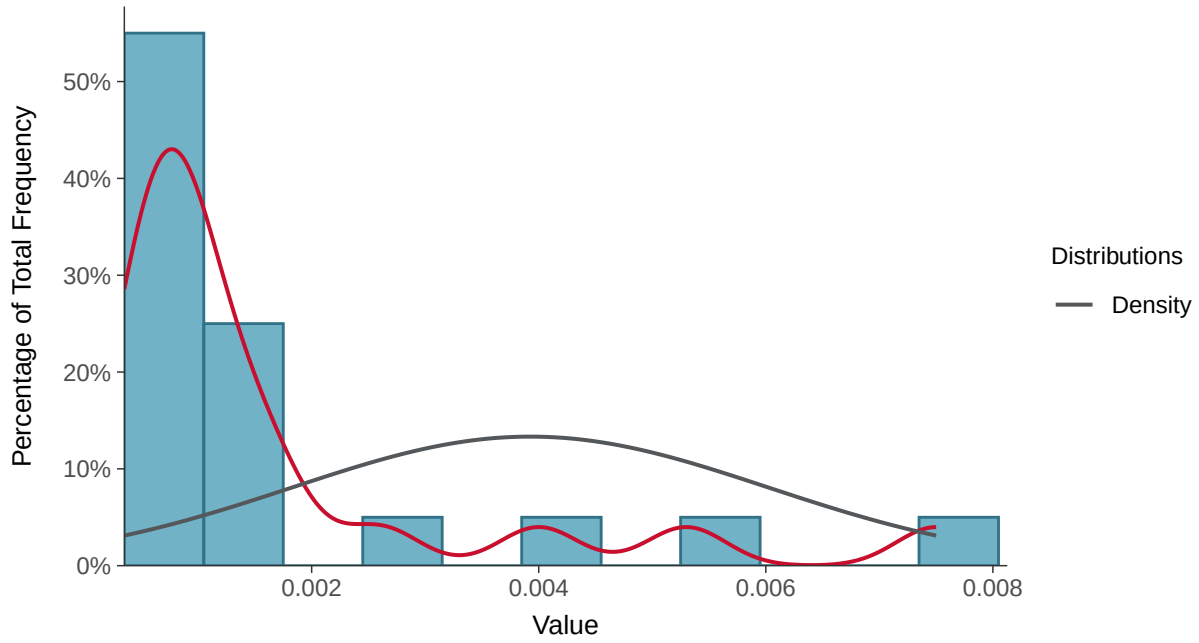
Scatter Plot

Lead, MW-01R (mg/L)



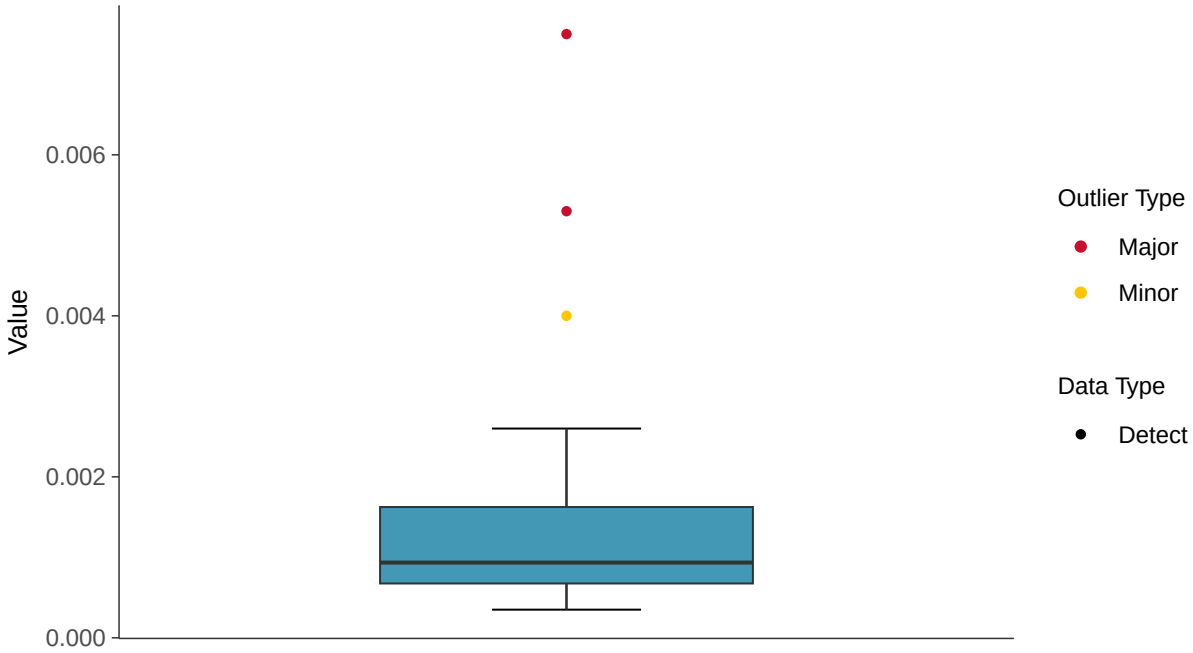
Histogram

Lead, MW-01R (mg/L)



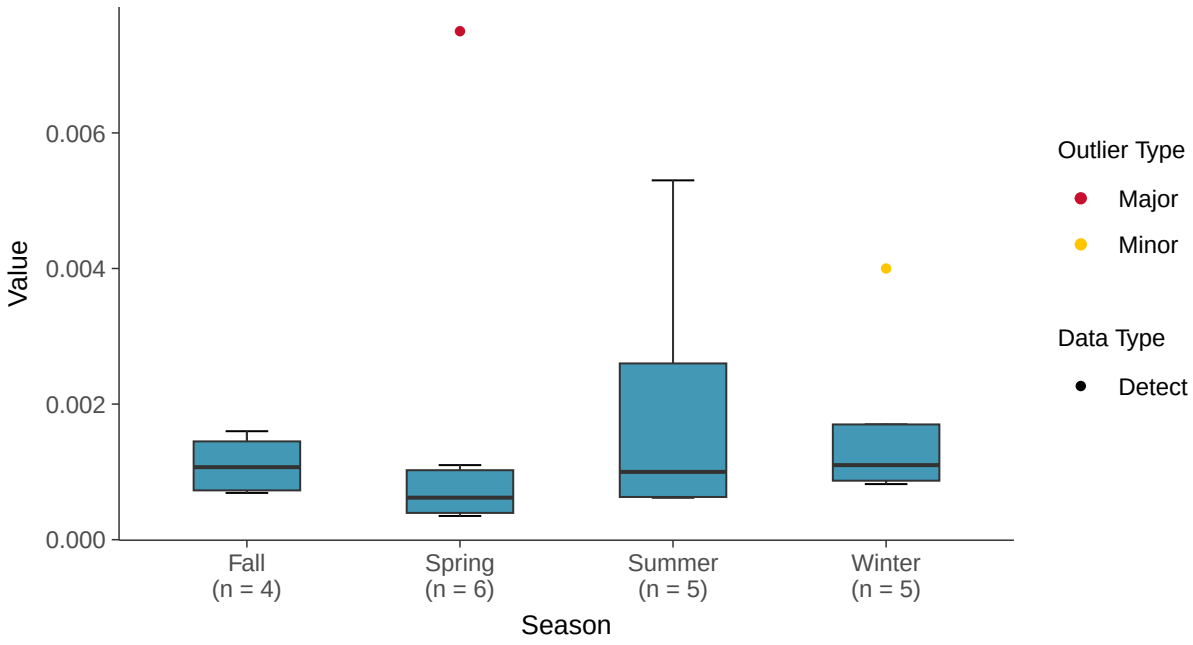
Boxplot

Lead, MW-01R (mg/L)



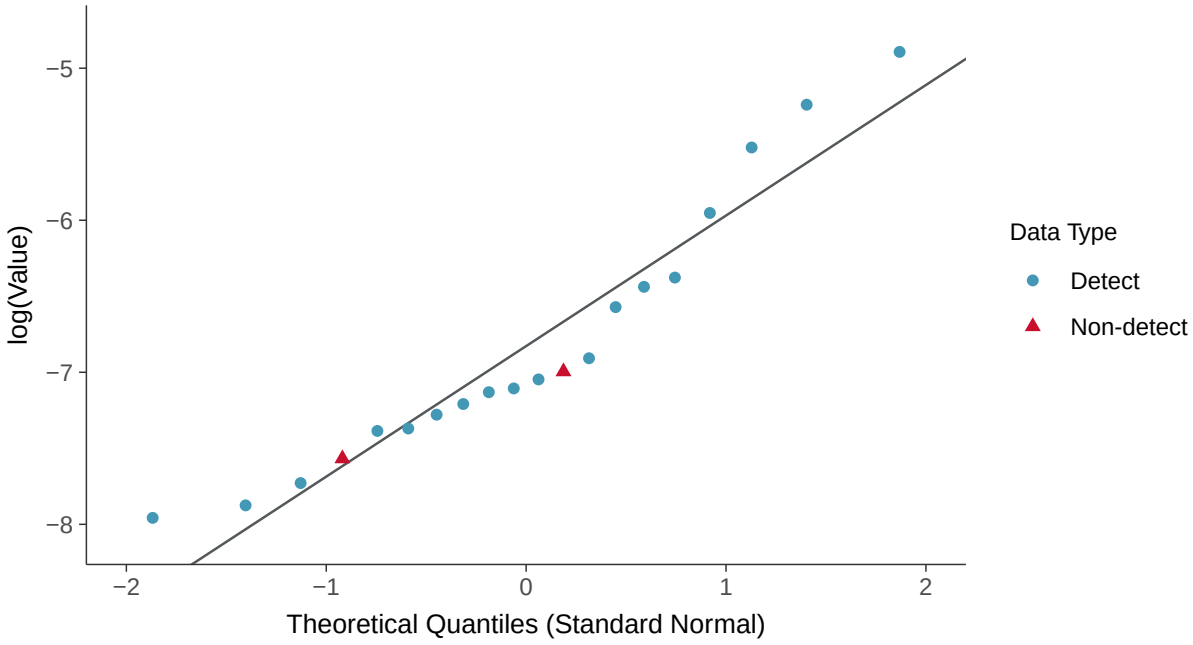
Boxplot by Season

Lead, MW-01R (mg/L)



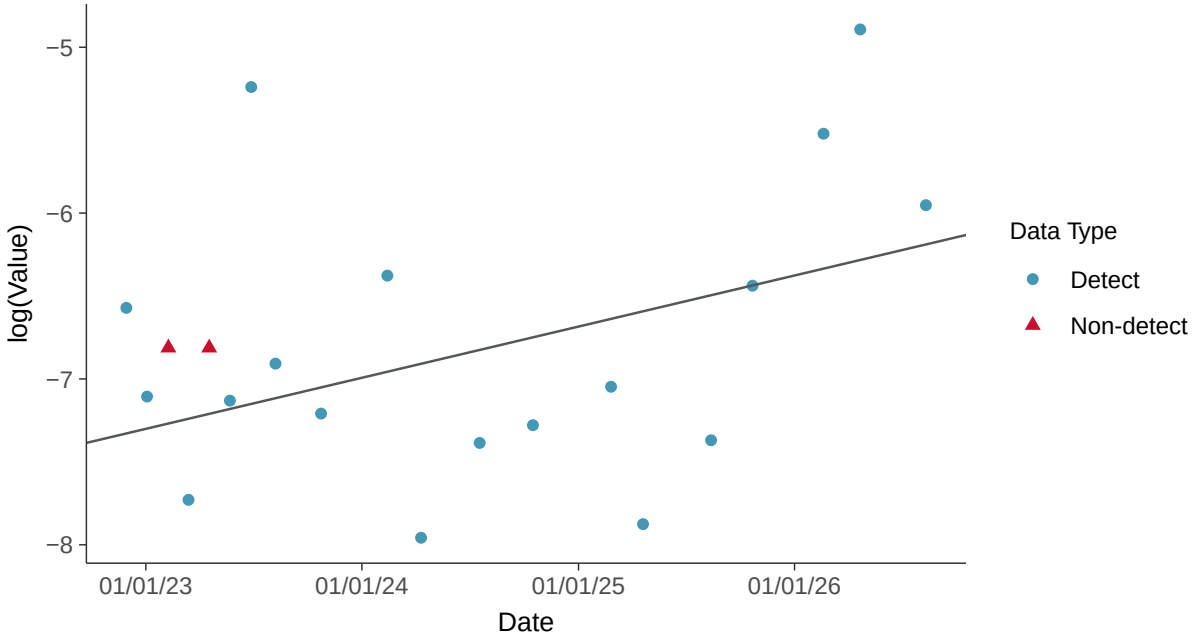
Lognormal Q-Q plot using ROS Imputed Estimates

Lead, MW-01R (mg/L)



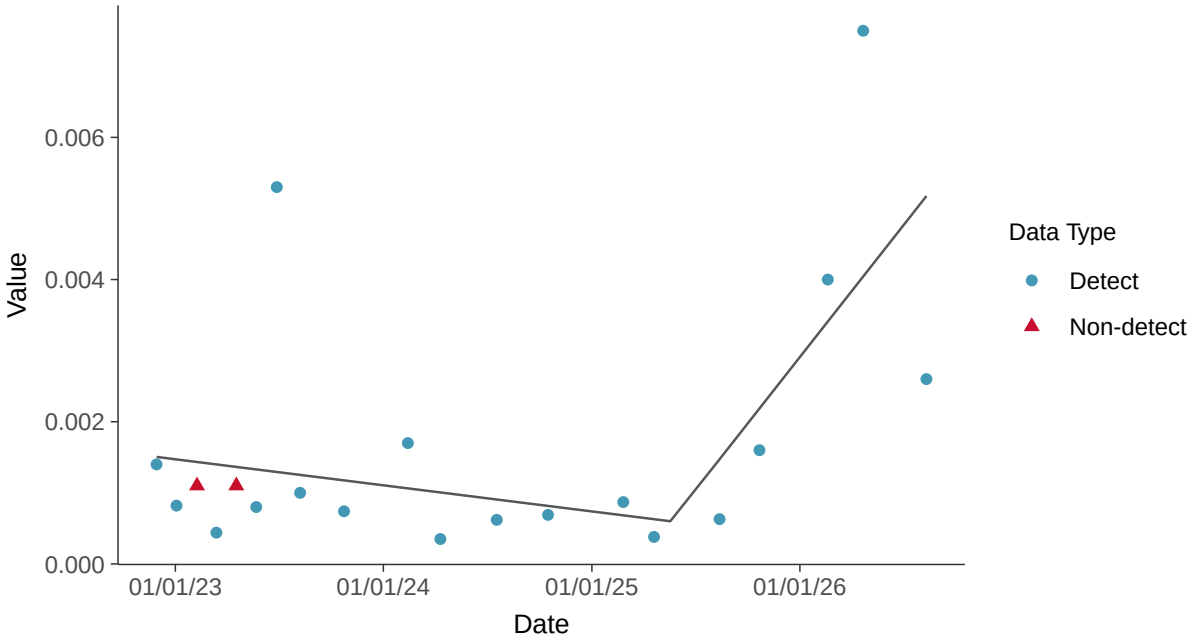
Trend Regression: Lognormal MLE

Lead, MW-01R (mg/L)



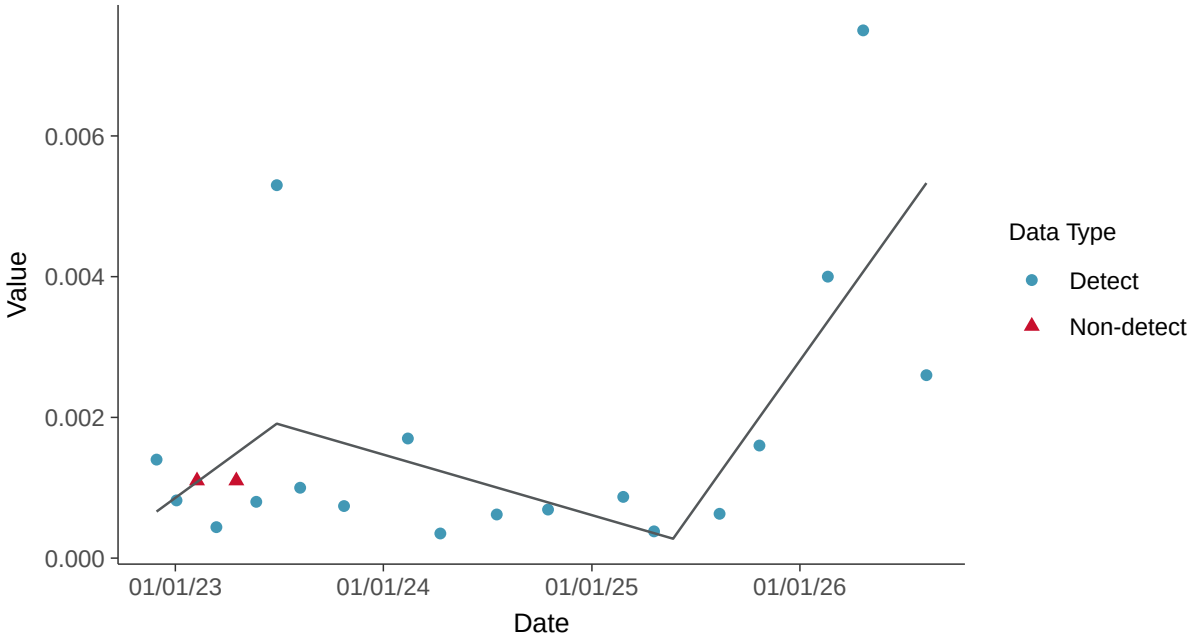
Trend Regression: Piecewise Linear-Linear

Lead, MW-01R (mg/L)



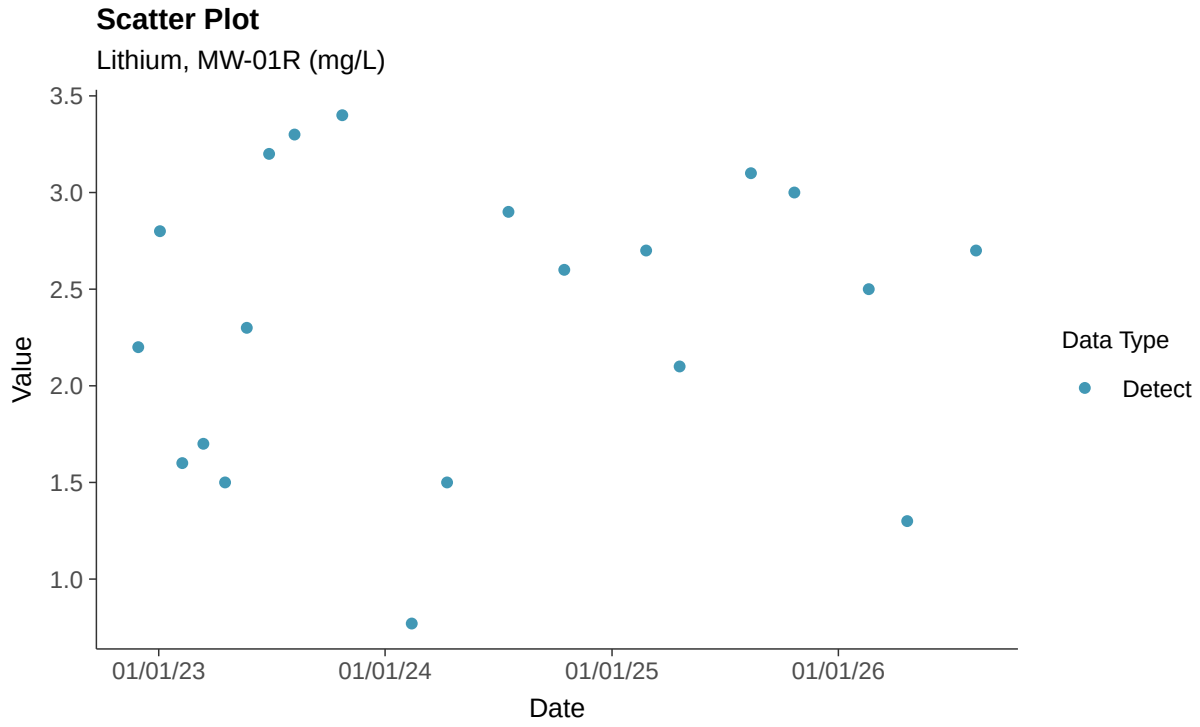
Trend Regression: Piecewise Linear-Linear-Linear

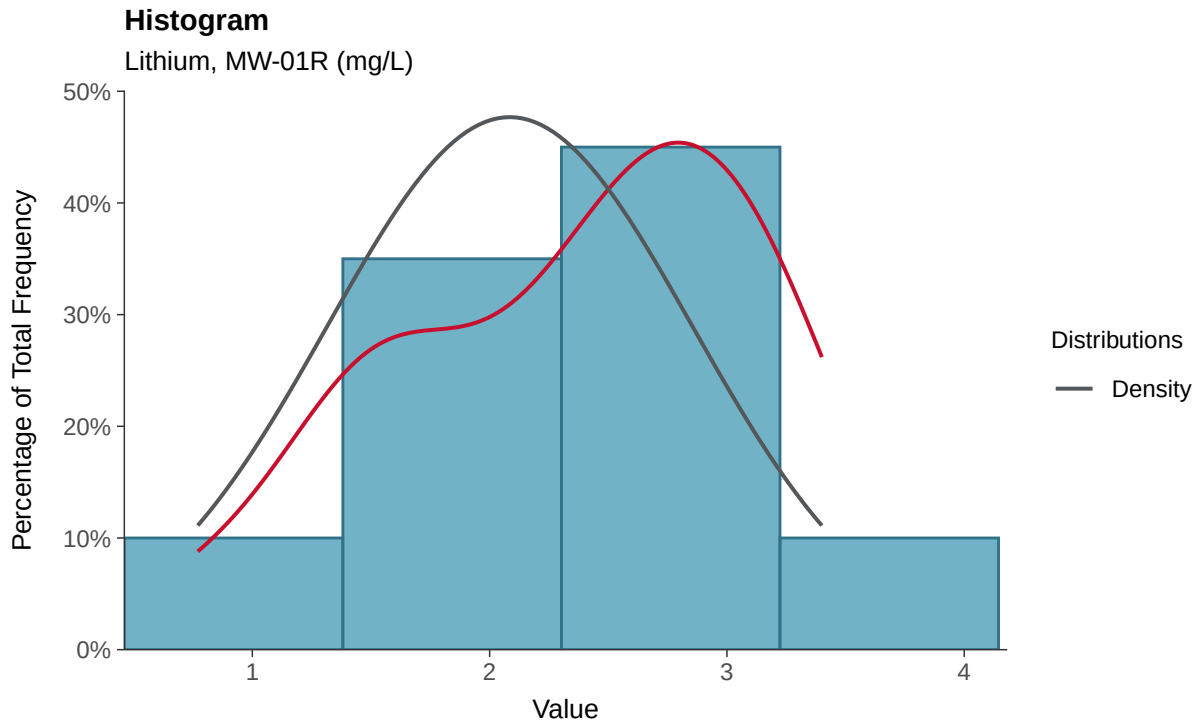
Lead, MW-01R (mg/L)



Appendix IV: Lithium, MW-01R

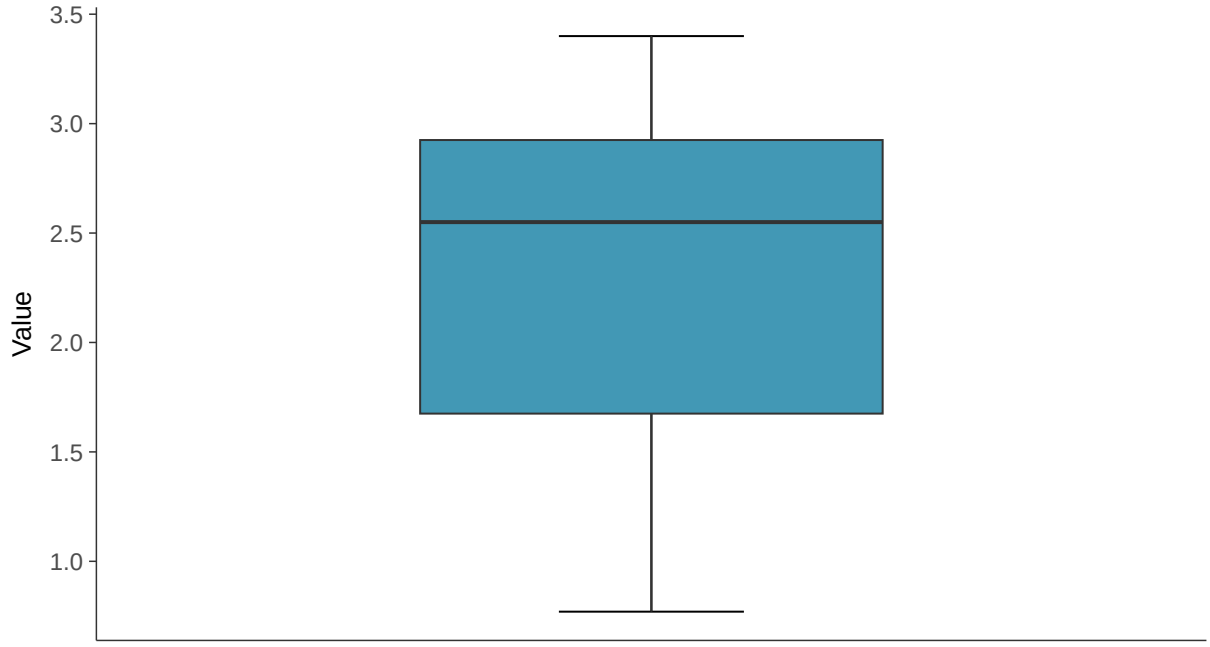
ID: 11_2_4_116





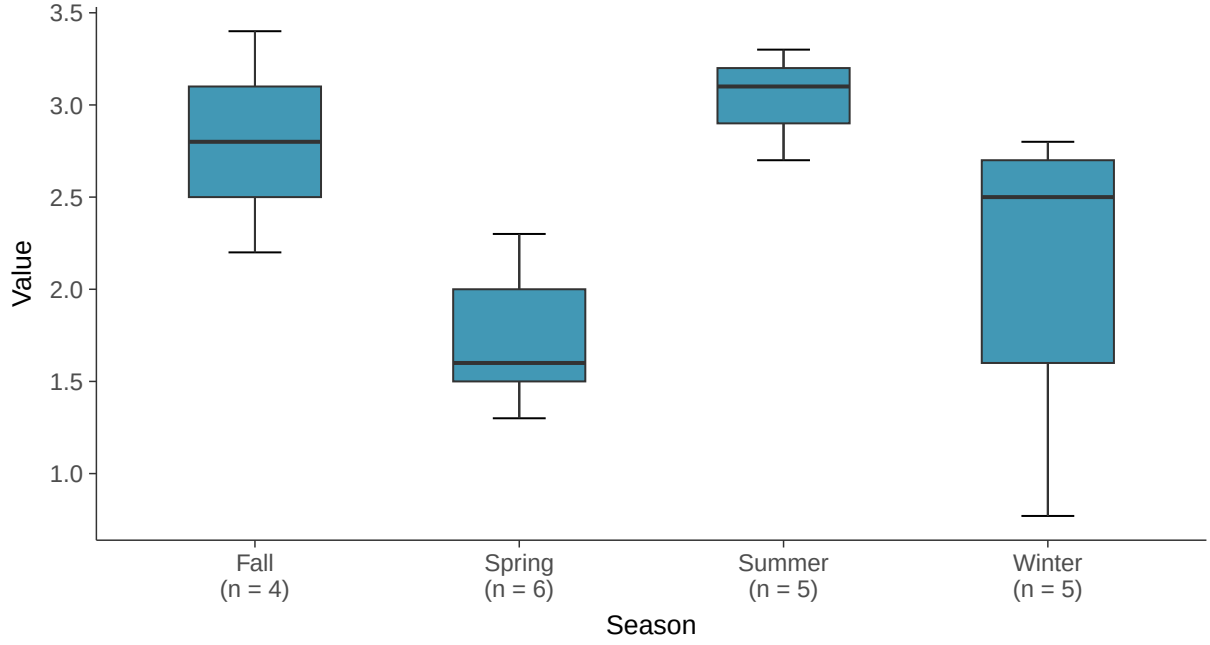
Boxplot

Lithium, MW-01R (mg/L)



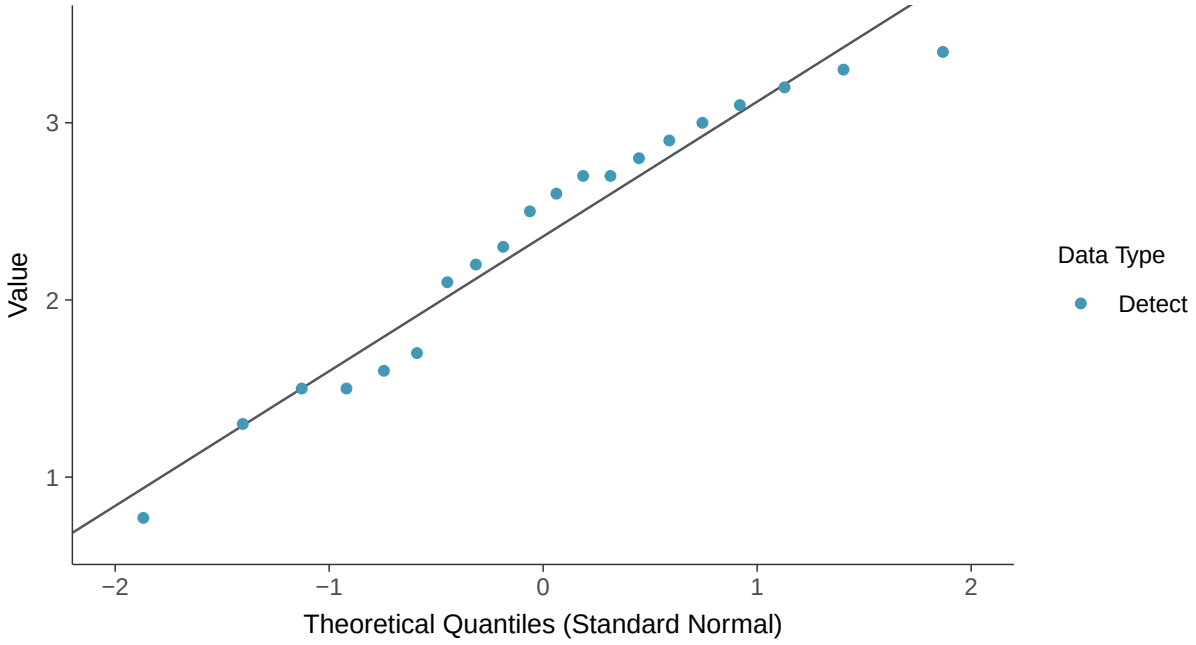
Boxplot by Season

Lithium, MW-01R (mg/L)



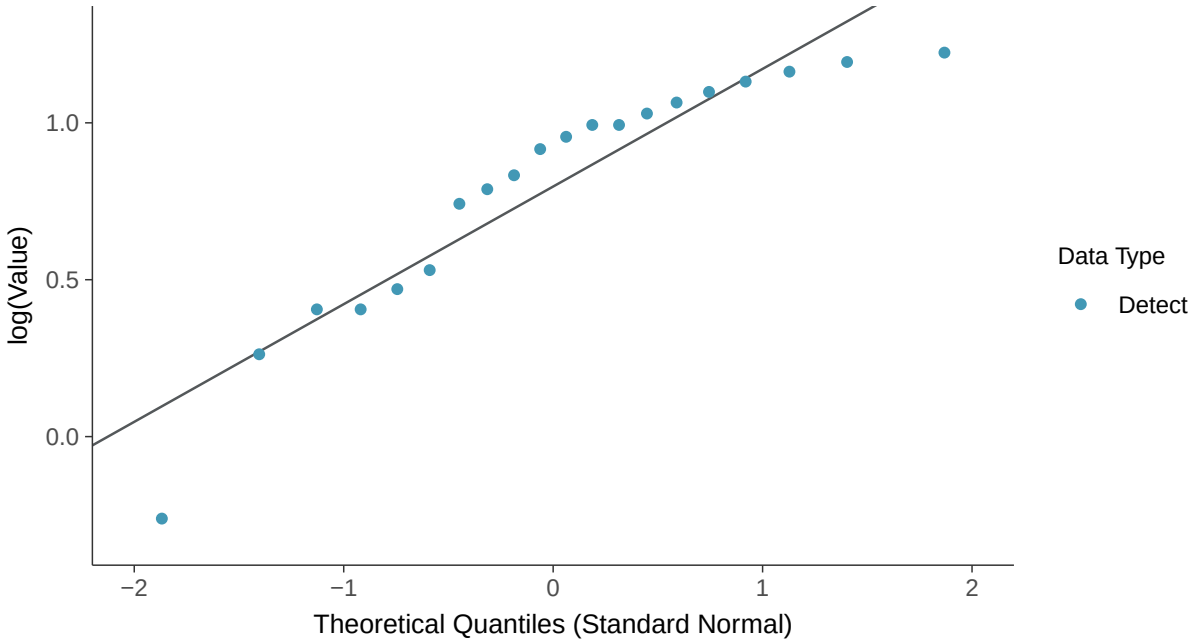
Normal Q-Q plot

Lithium, MW-01R (mg/L)



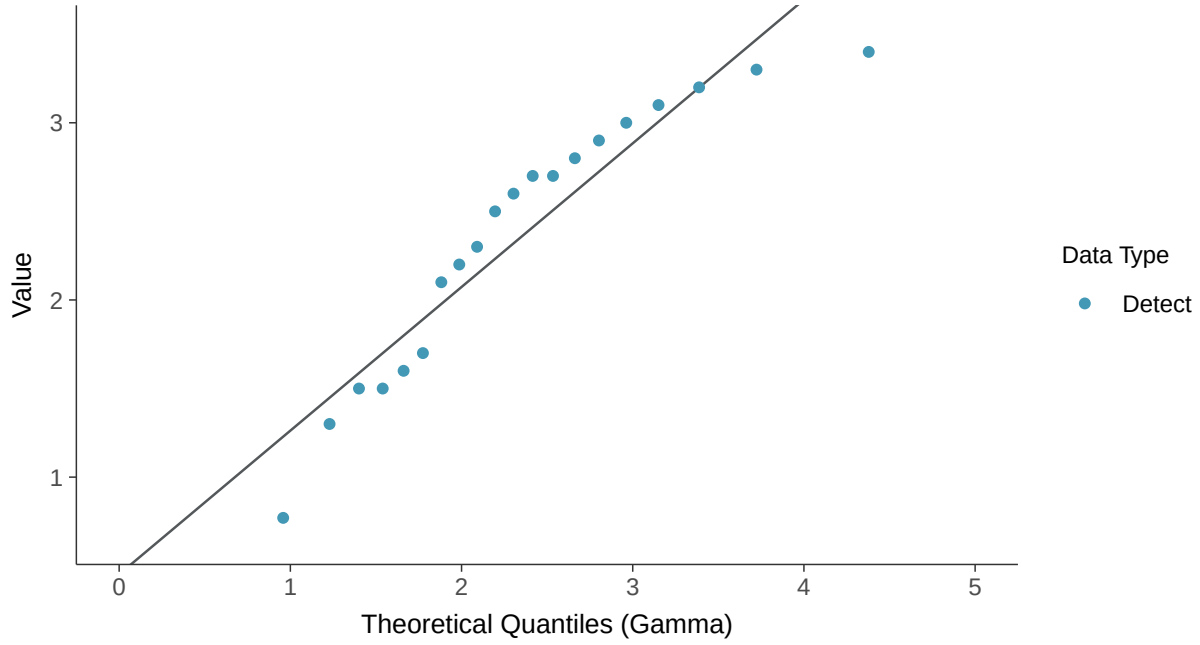
Lognormal Q-Q plot

Lithium, MW-01R (mg/L)



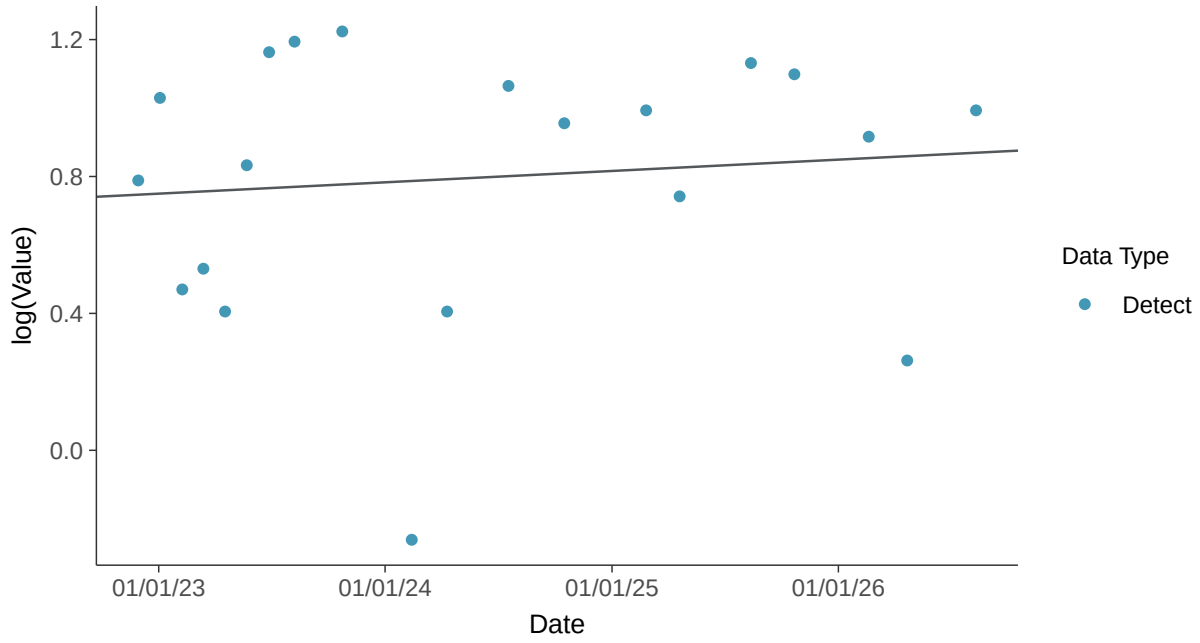
Gamma Q-Q plot

Lithium, MW-01R (mg/L)



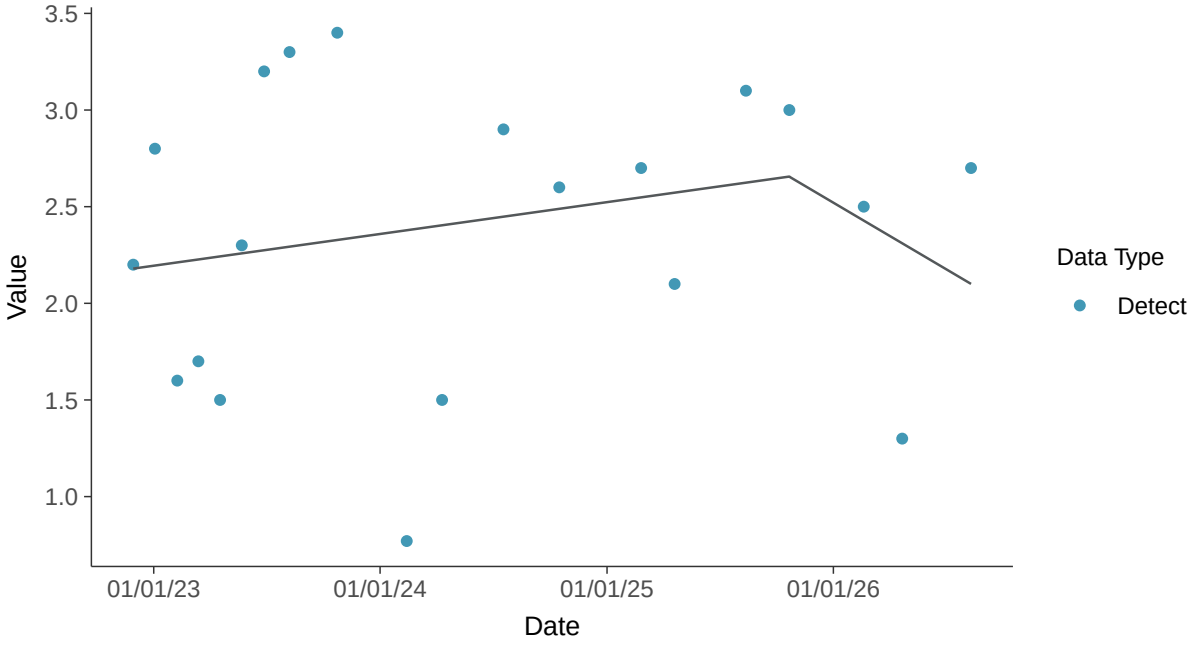
Trend Regression: Lognormal MLE

Lithium, MW-01R (mg/L)



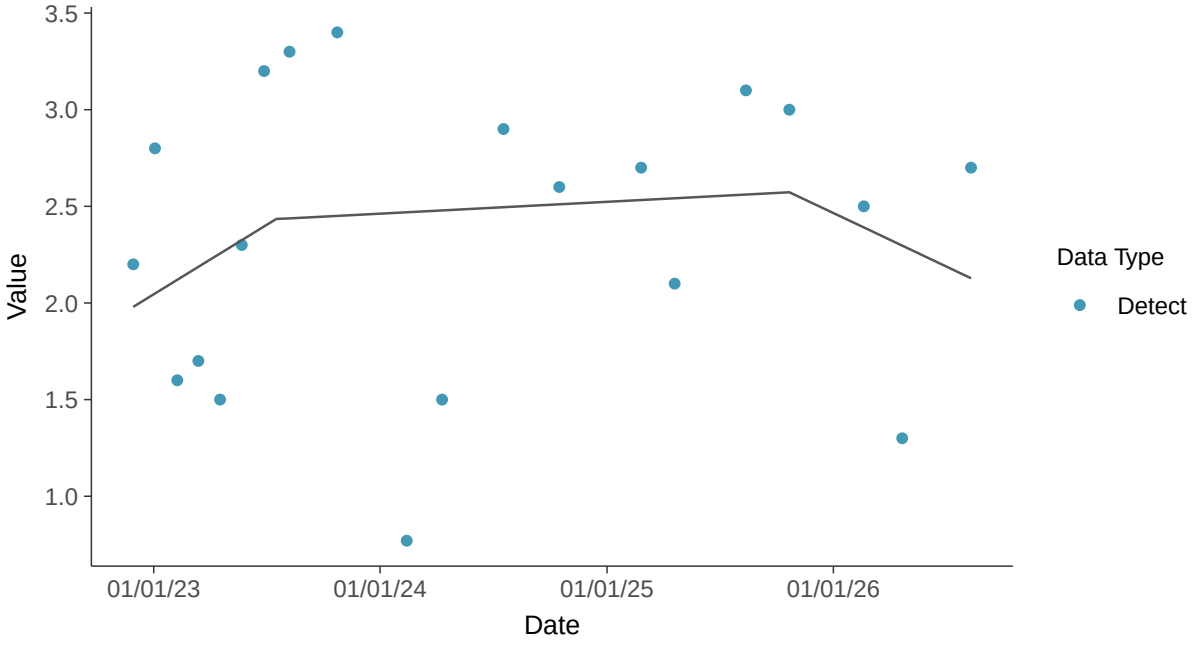
Trend Regression: Piecewise Linear-Linear

Lithium, MW-01R (mg/L)



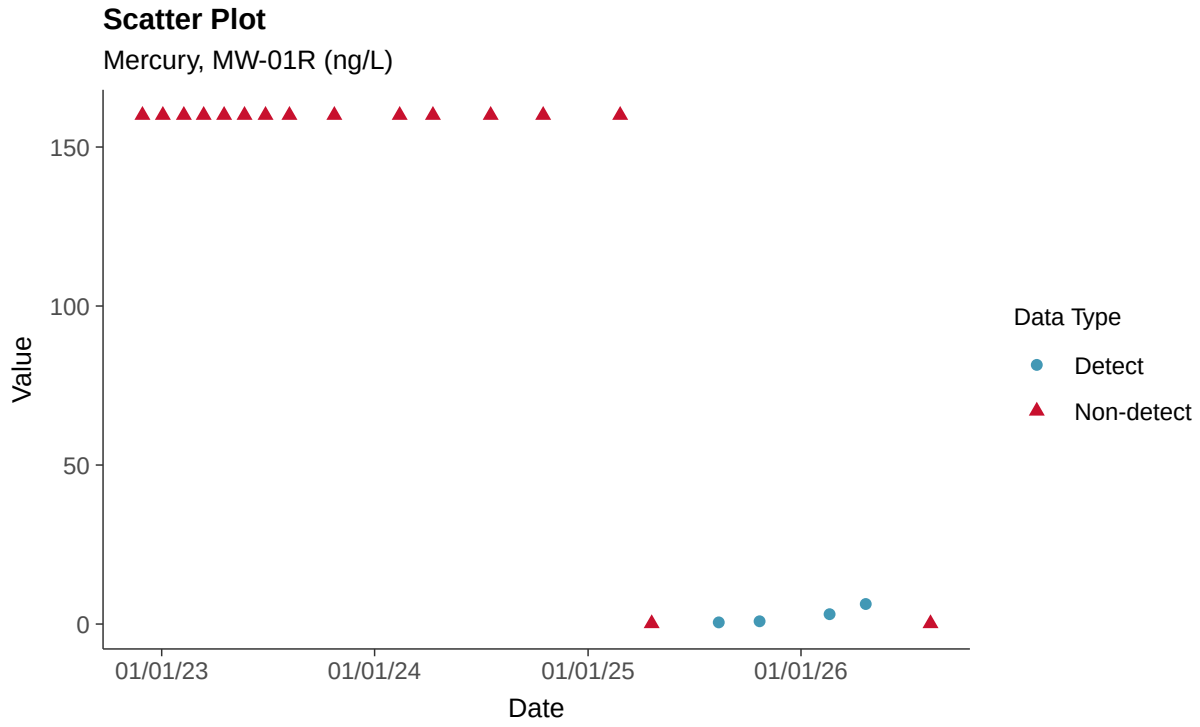
Trend Regression: Piecewise Linear-Linear-Linear

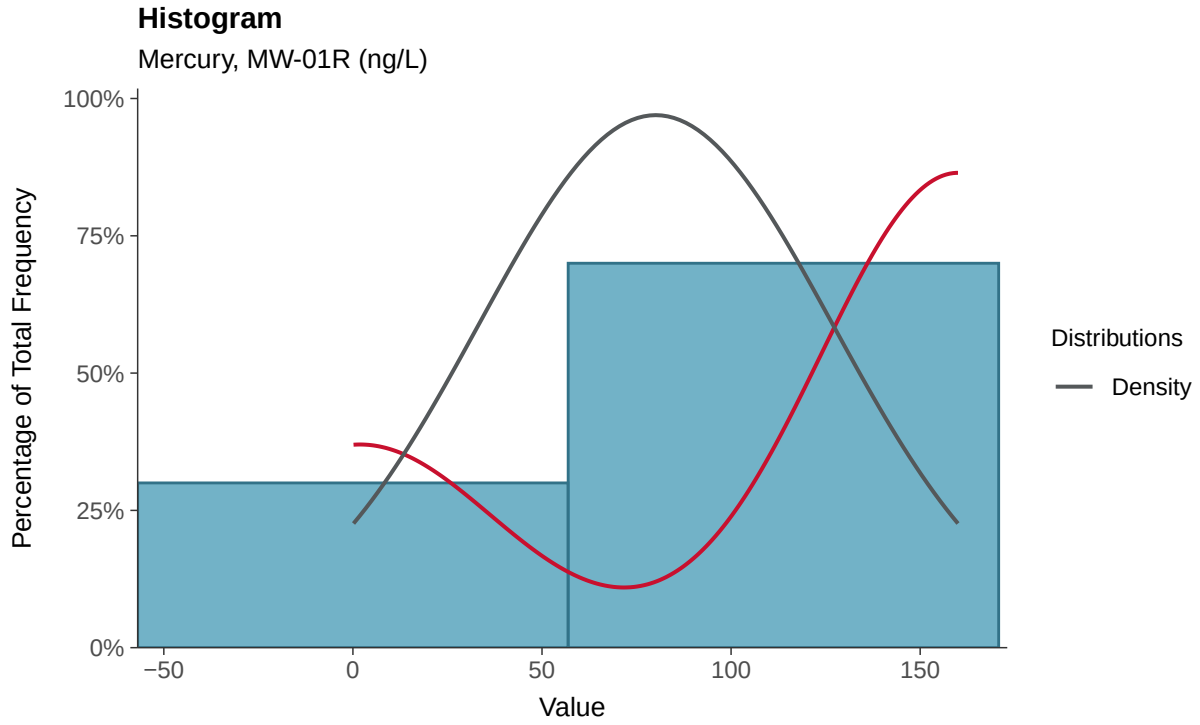
Lithium, MW-01R (mg/L)



Appendix IV: Mercury, MW-01R

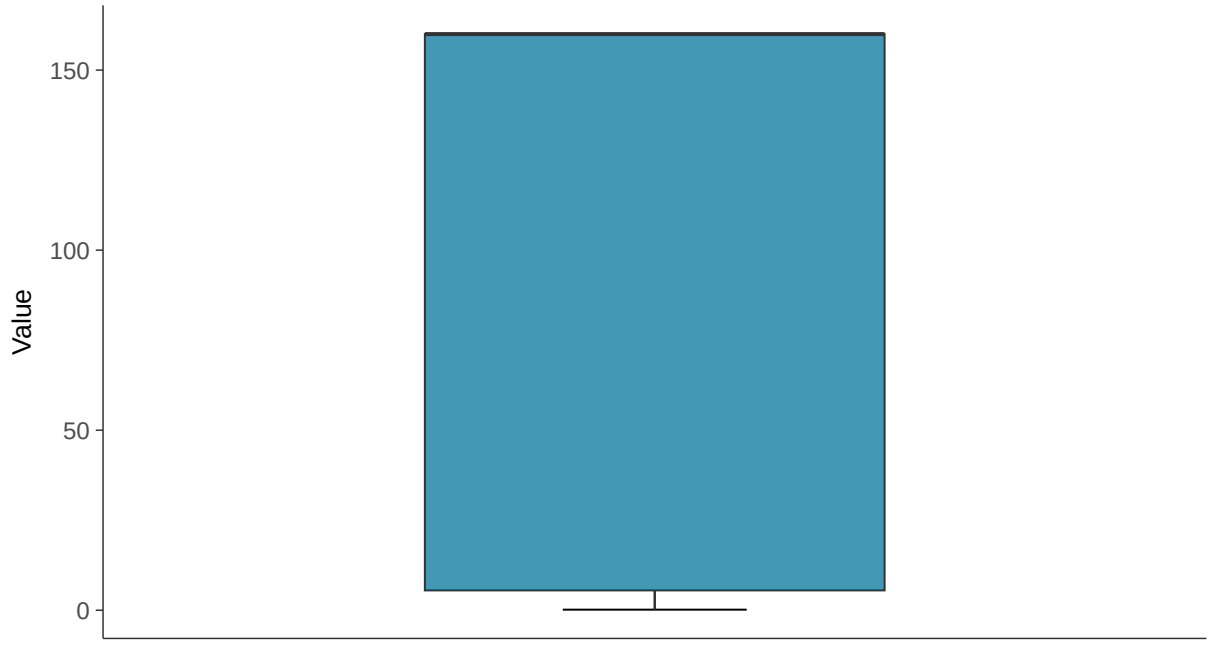
ID: 11_2_4_117





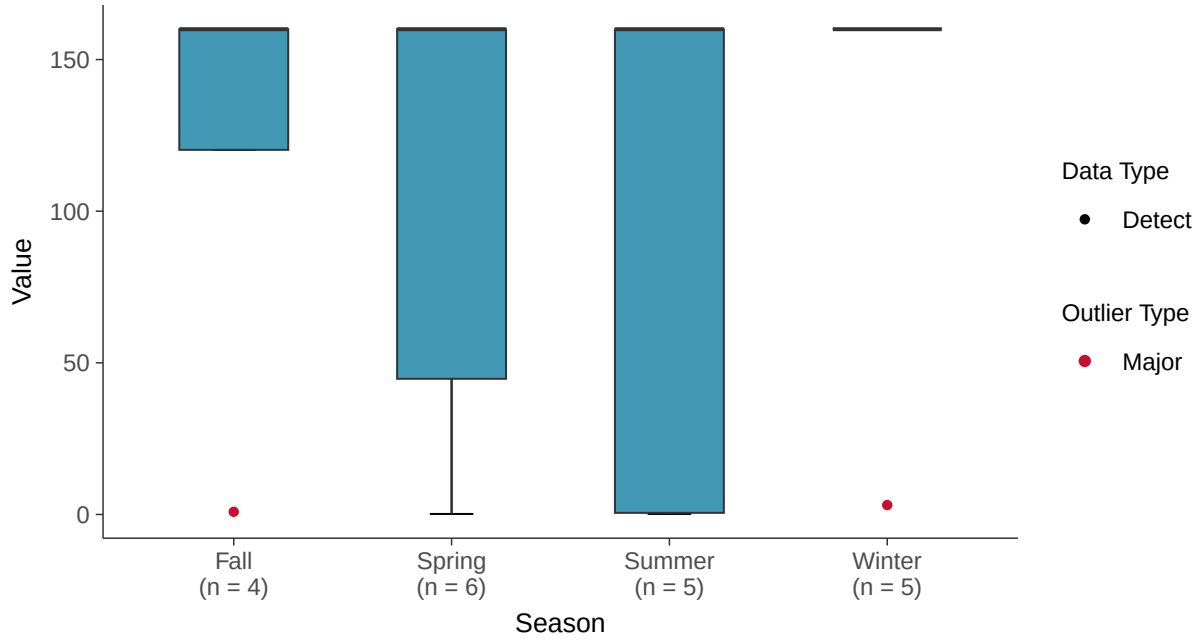
Boxplot

Mercury, MW-01R (ng/L)



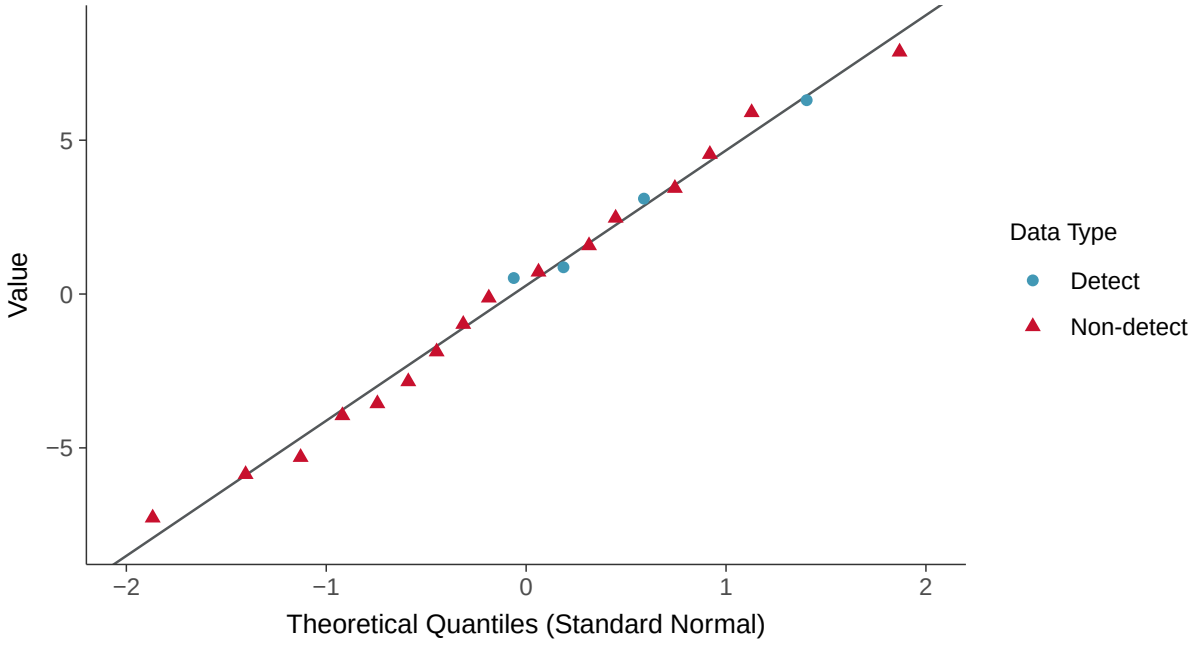
Boxplot by Season

Mercury, MW-01R (ng/L)



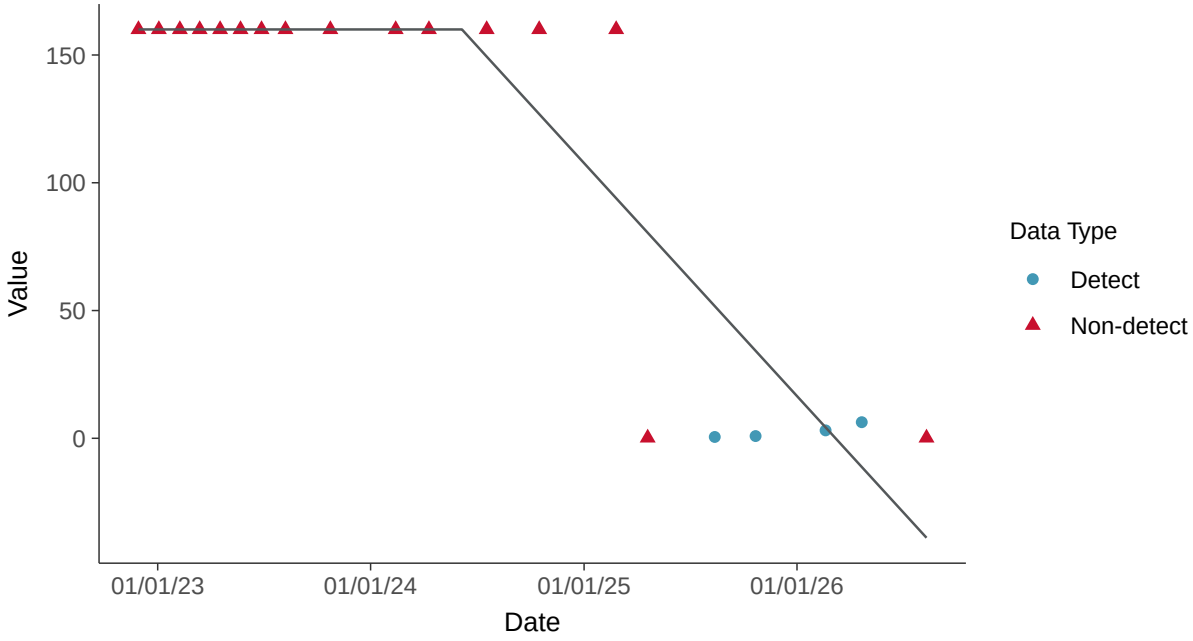
Normal Q-Q plot using ROS Imputed Estimates

Mercury, MW-01R (ng/L)



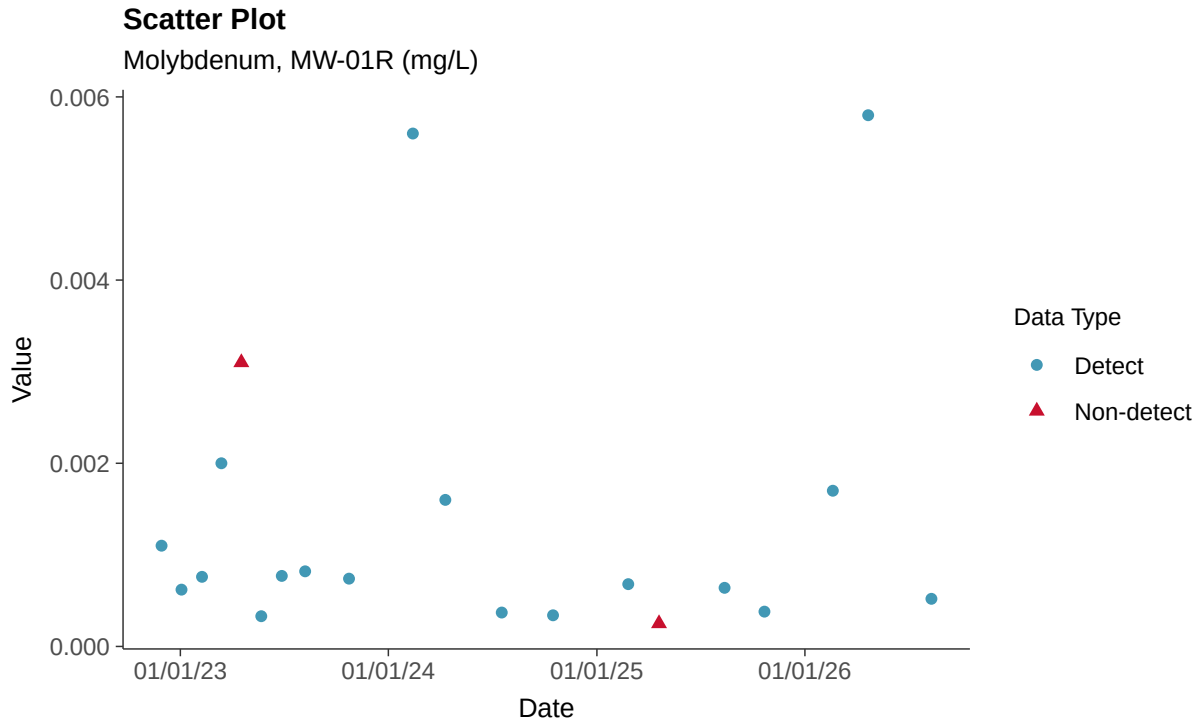
Trend Regression: Piecewise Linear-Linear

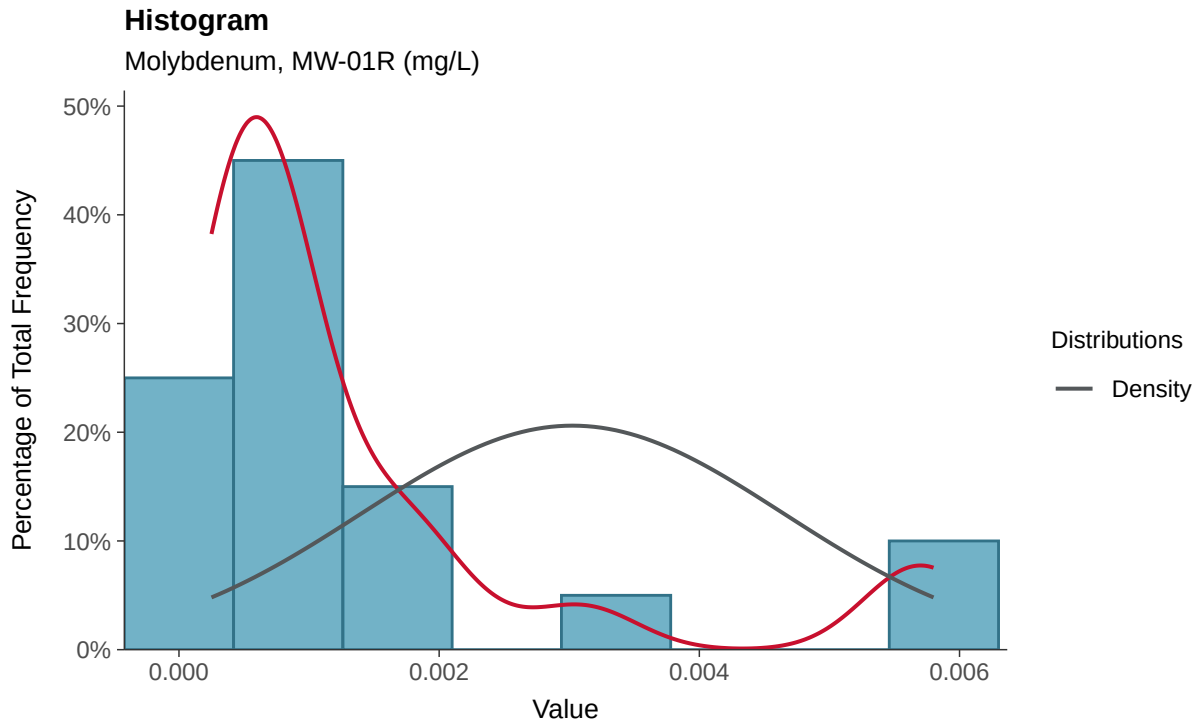
Mercury, MW-01R (ng/L)



Appendix IV: Molybdenum, MW-01R

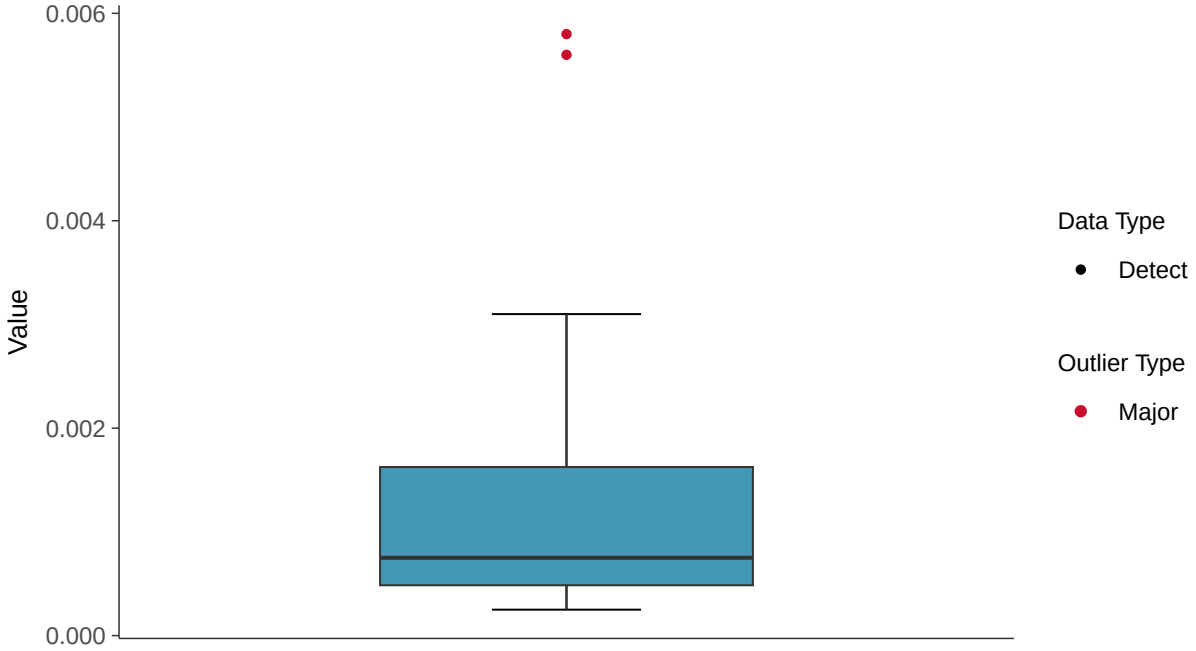
ID: 11_2_4_118





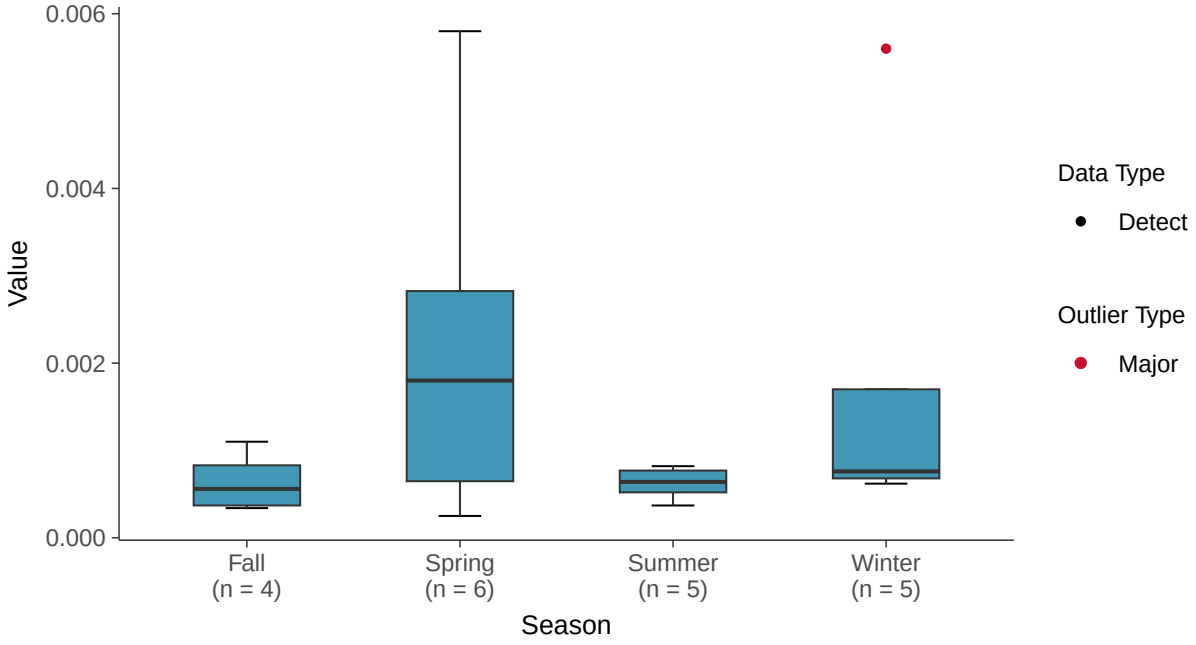
Boxplot

Molybdenum, MW-01R (mg/L)



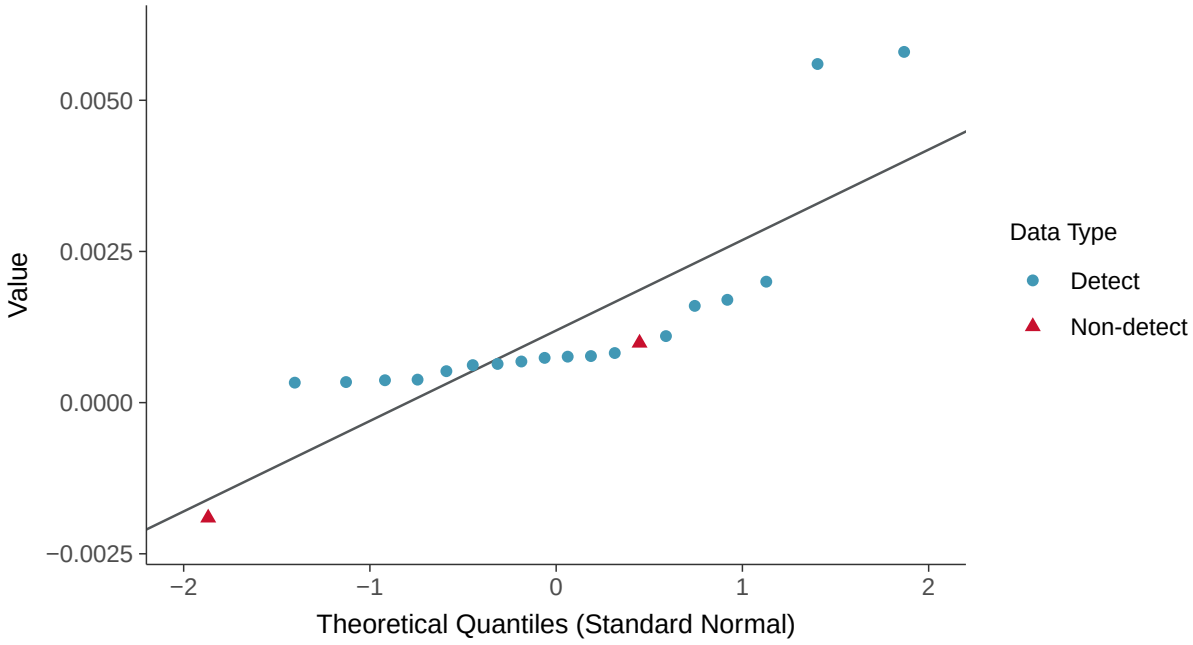
Boxplot by Season

Molybdenum, MW-01R (mg/L)



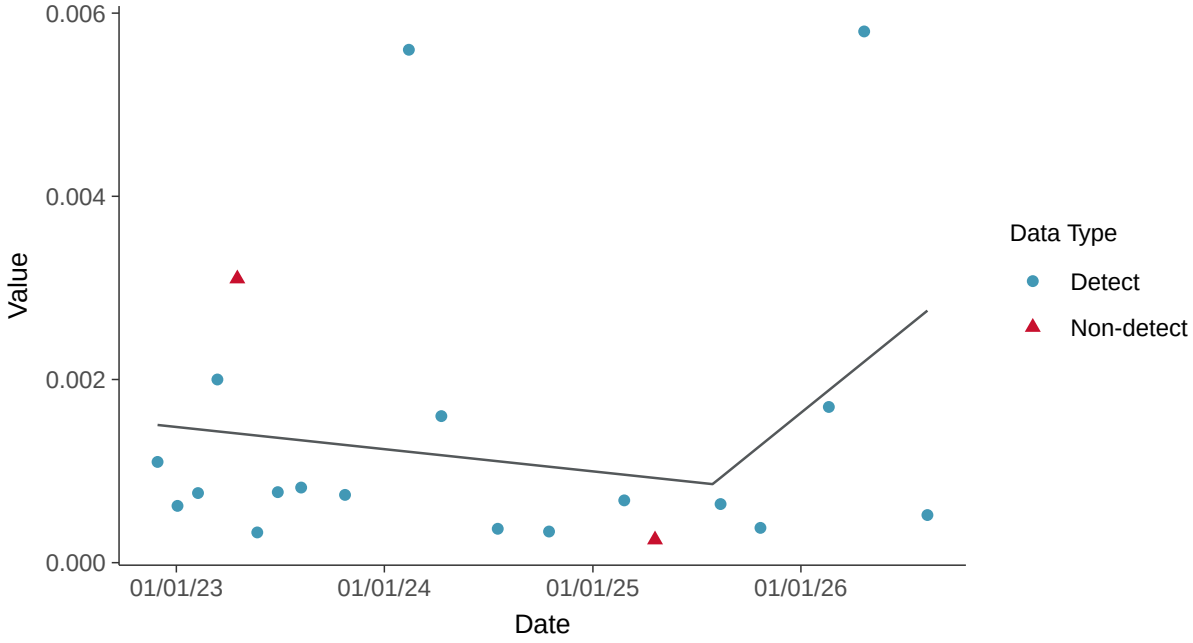
Normal Q-Q plot using ROS Imputed Estimates

Molybdenum, MW-01R (mg/L)



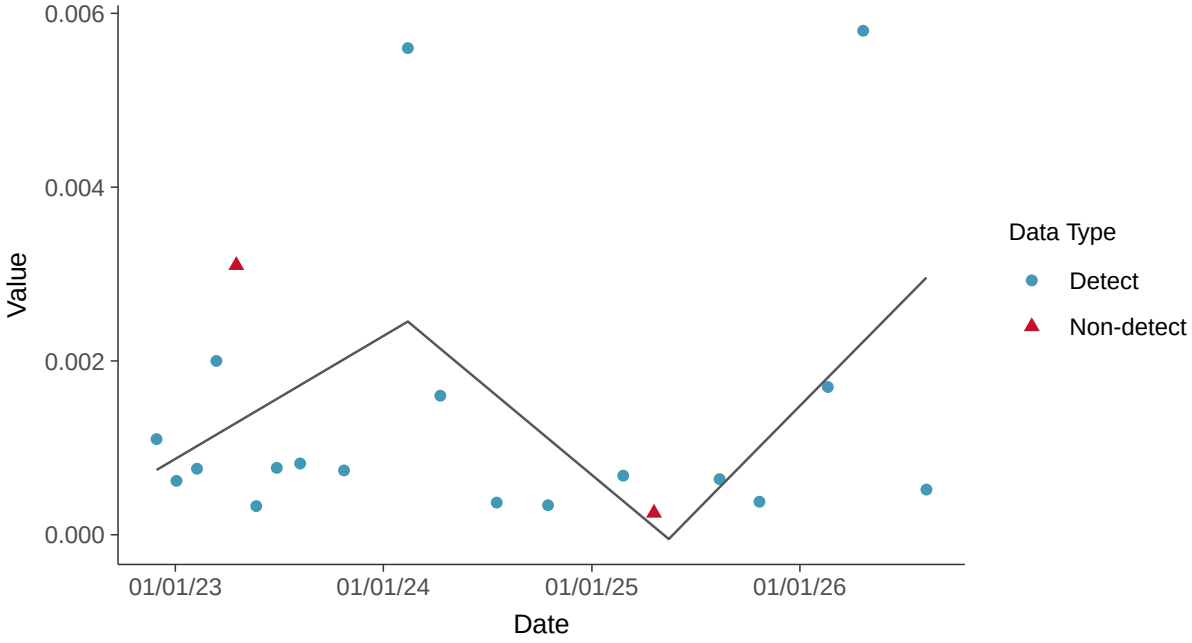
Trend Regression: Piecewise Linear-Linear

Molybdenum, MW-01R (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Molybdenum, MW-01R (mg/L)

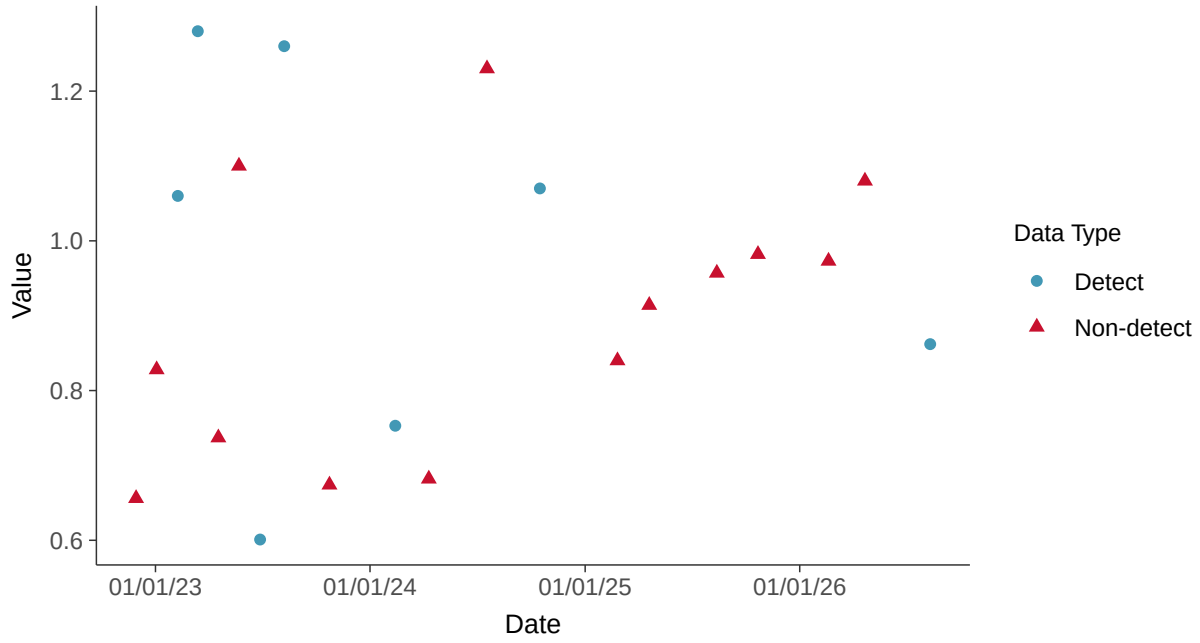


Appendix IV: Radium 226 and 228, MW-01R

ID: 11_2_4_121

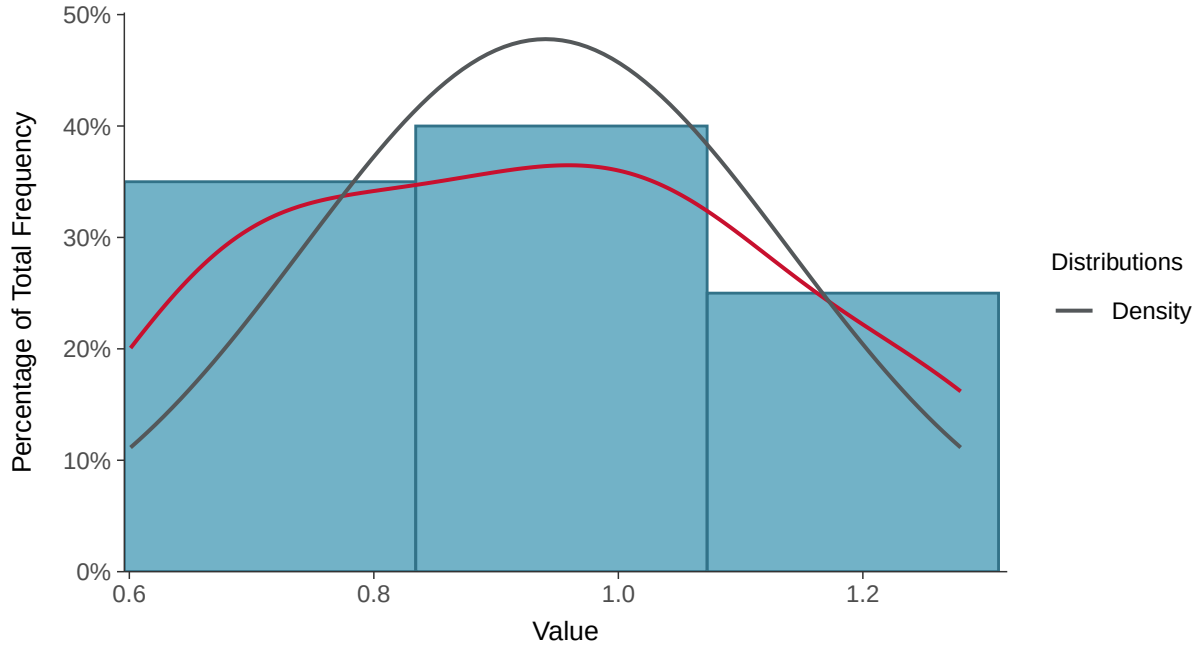
Scatter Plot

Radium 226 and 228, MW-01R (pCi/L)



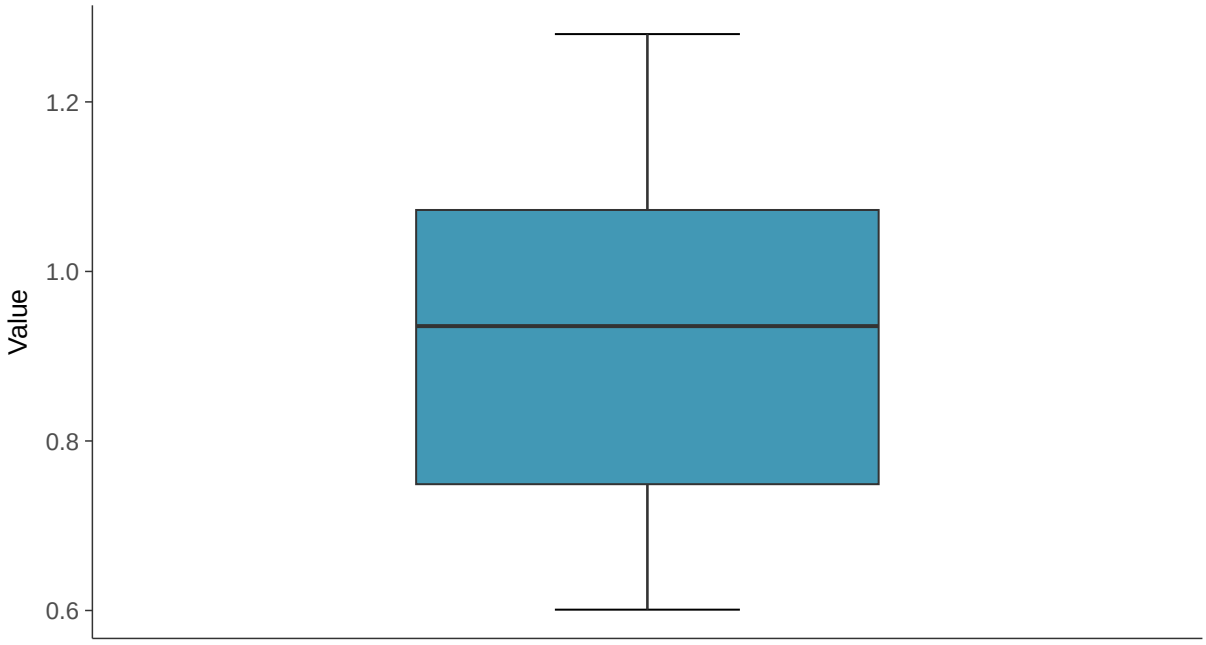
Histogram

Radium 226 and 228, MW-01R (pCi/L)



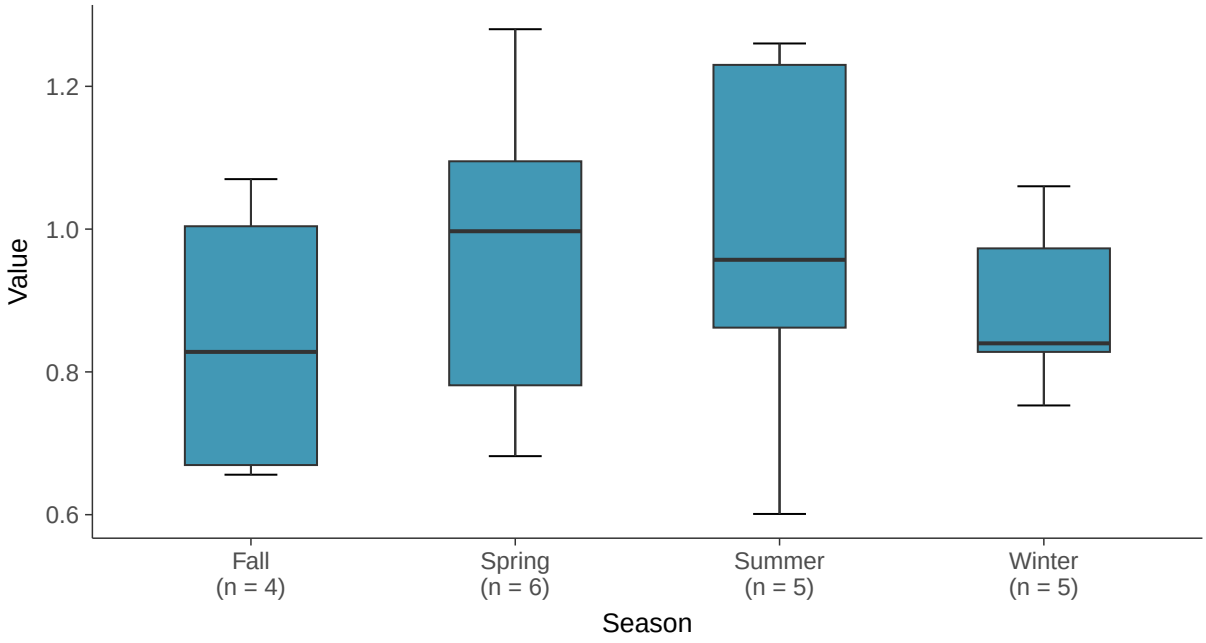
Boxplot

Radium 226 and 228, MW-01R (pCi/L)



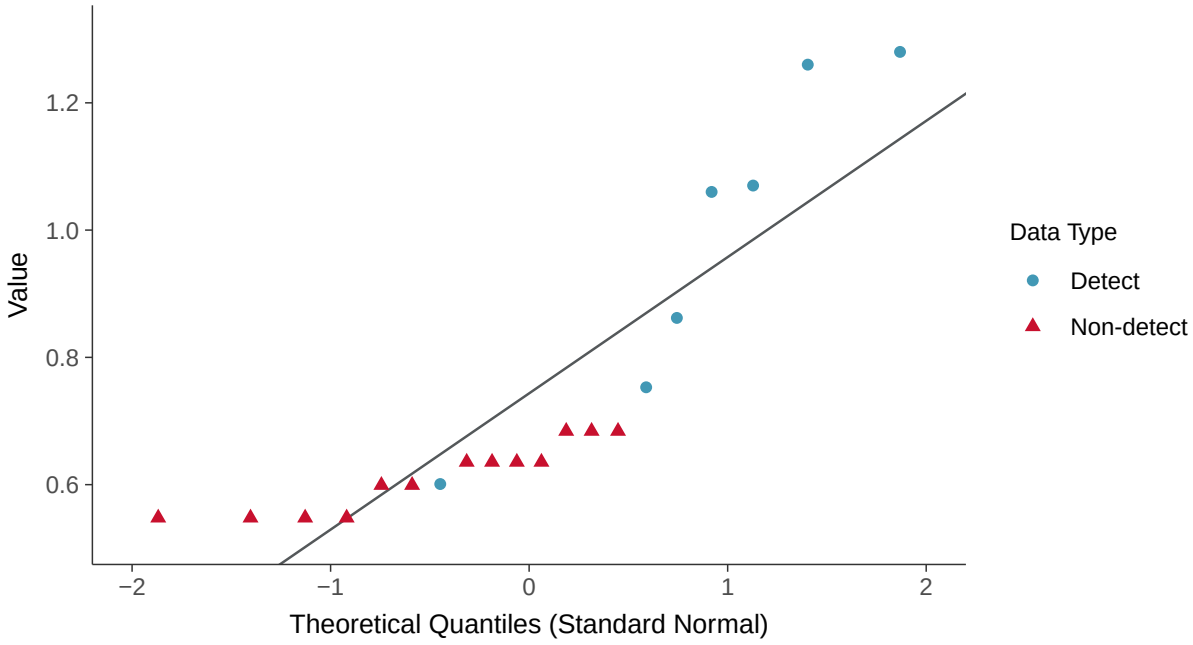
Boxplot by Season

Radium 226 and 228, MW-01R (pCi/L)



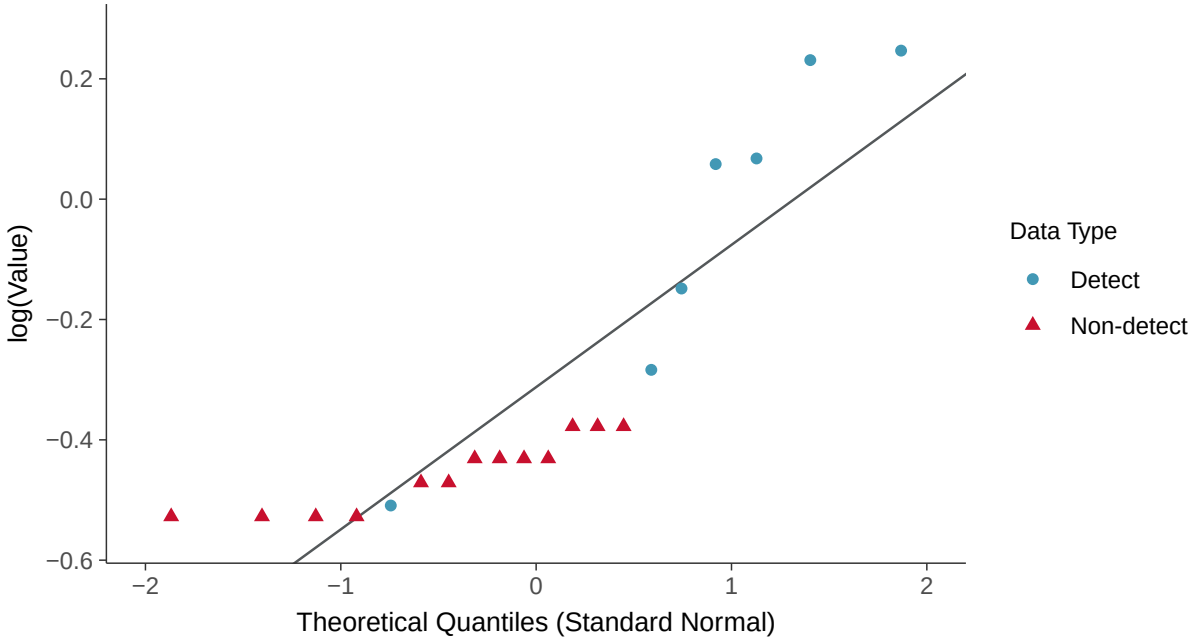
Normal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-01R (pCi/L)



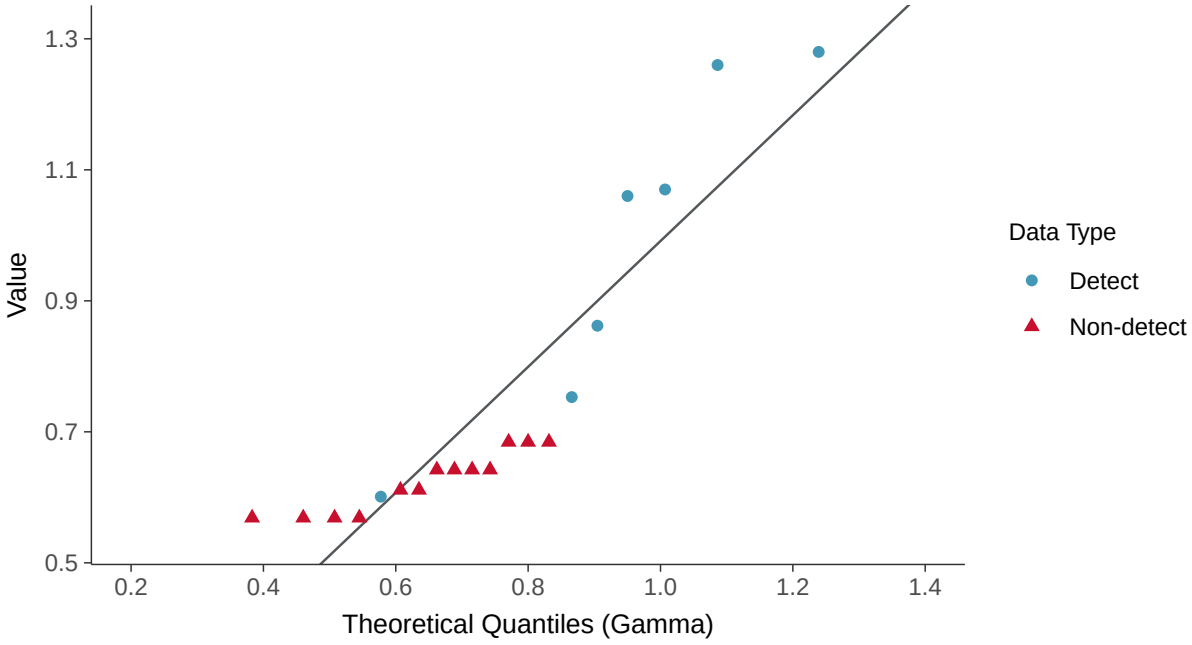
Lognormal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-01R (pCi/L)



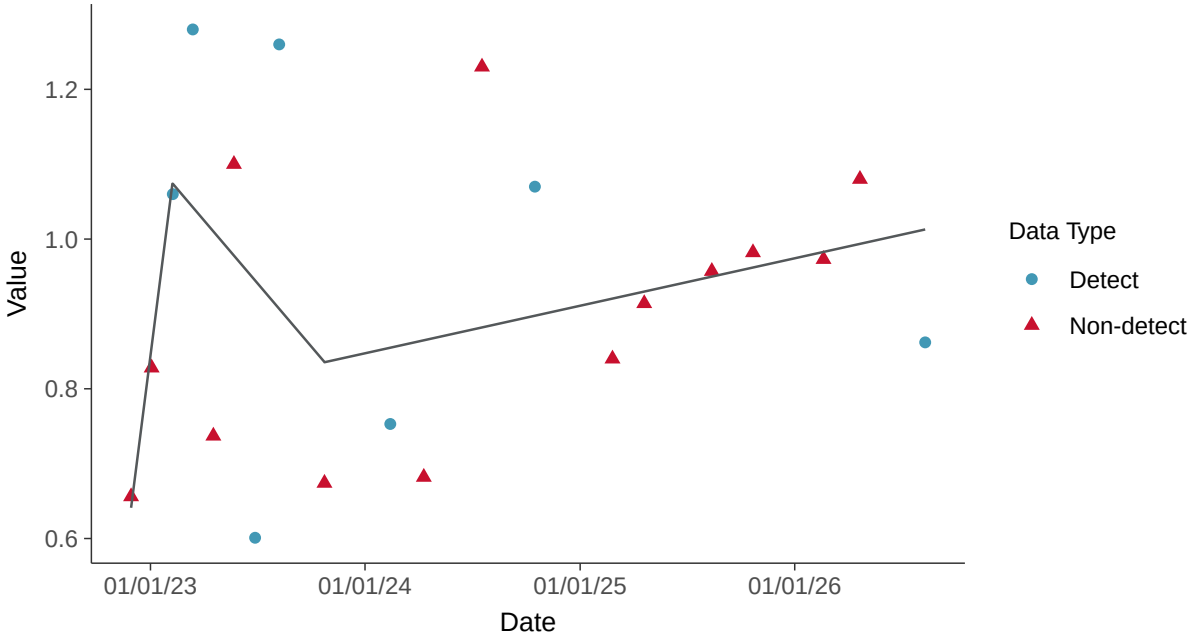
Gamma Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-01R (pCi/L)



Trend Regression: Piecewise Linear-Linear-Linear

Radium 226 and 228, MW-01R (pCi/L)

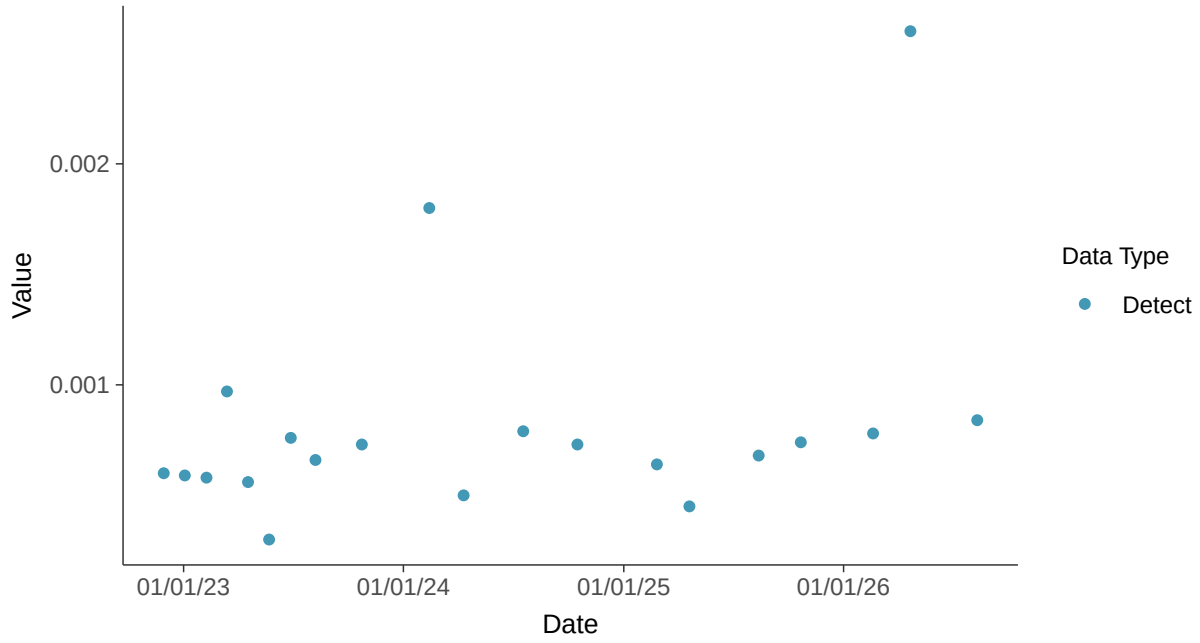


Appendix IV: Selenium, MW-01R

ID: 11_2_4_122

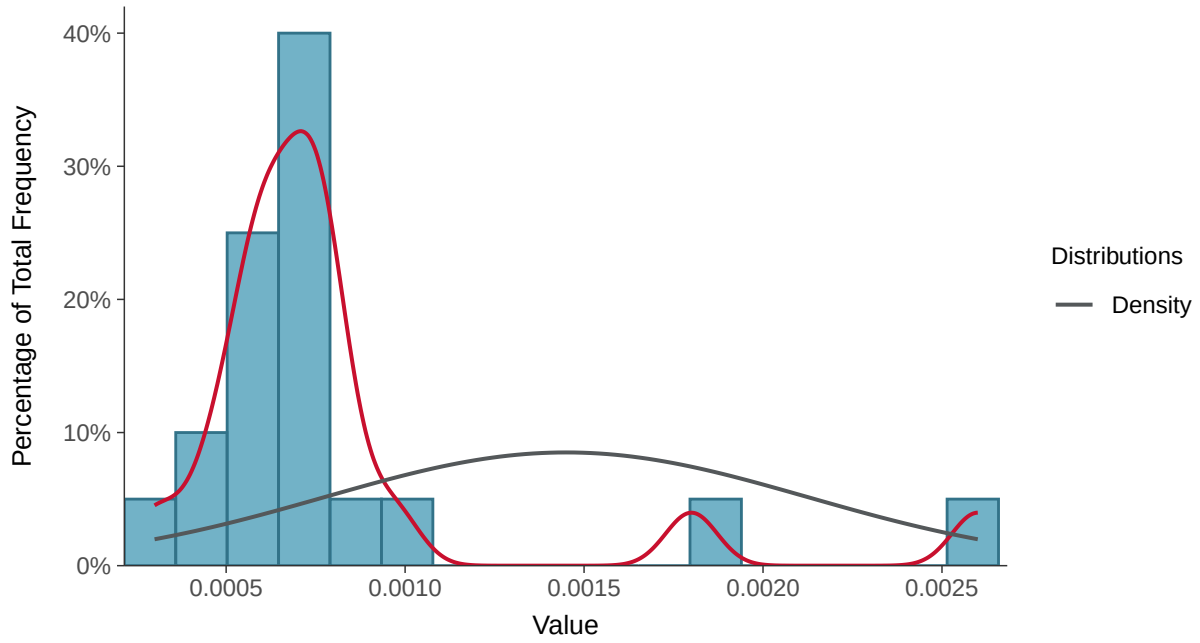
Scatter Plot

Selenium, MW-01R (mg/L)



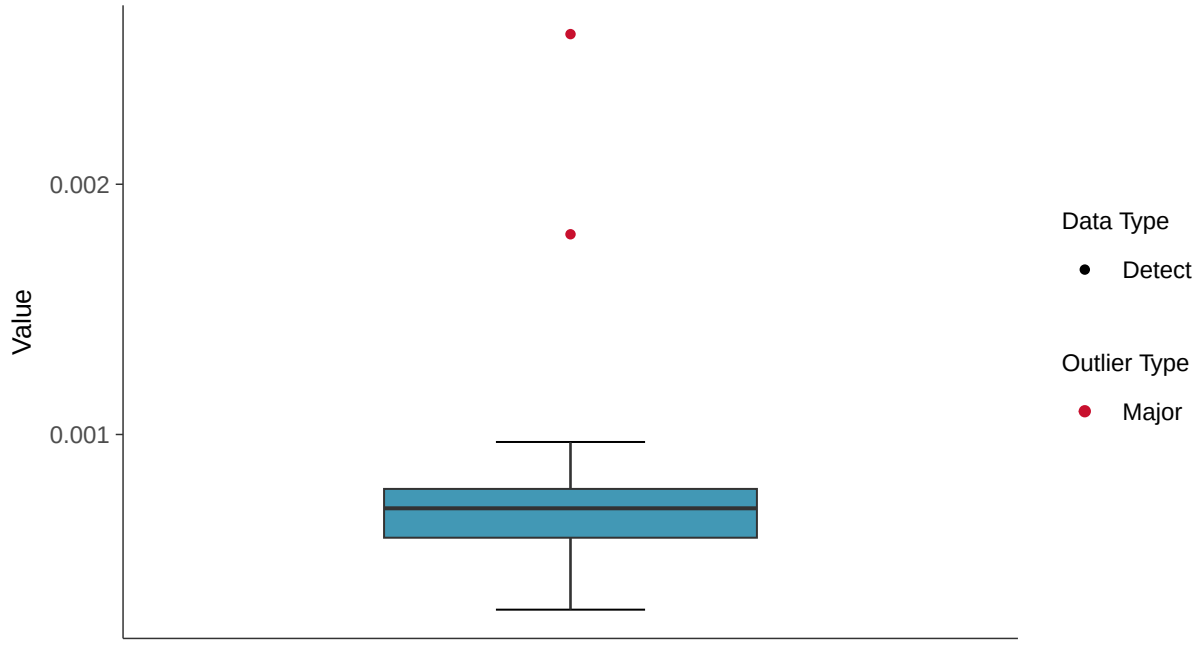
Histogram

Selenium, MW-01R (mg/L)



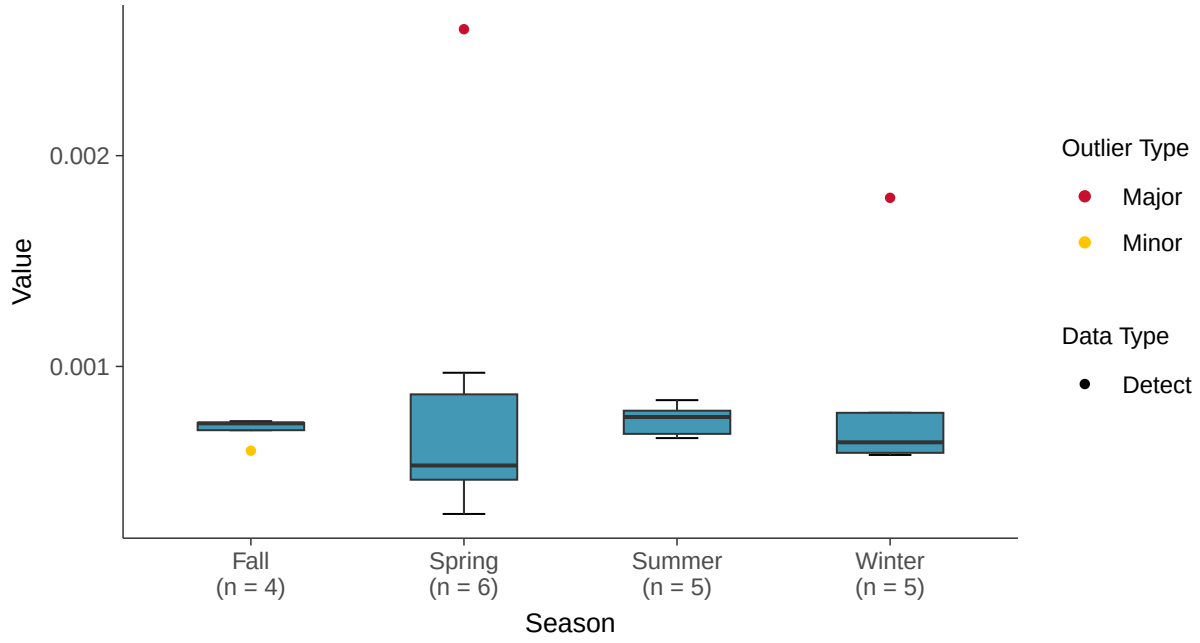
Boxplot

Selenium, MW-01R (mg/L)



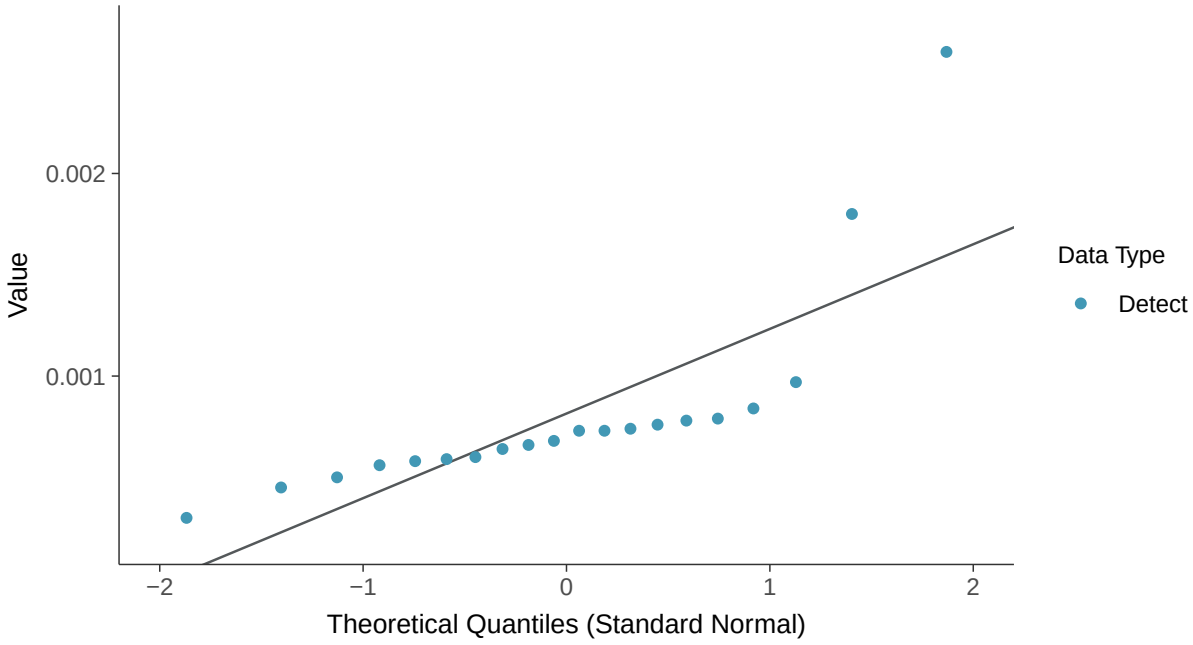
Boxplot by Season

Selenium, MW-01R (mg/L)



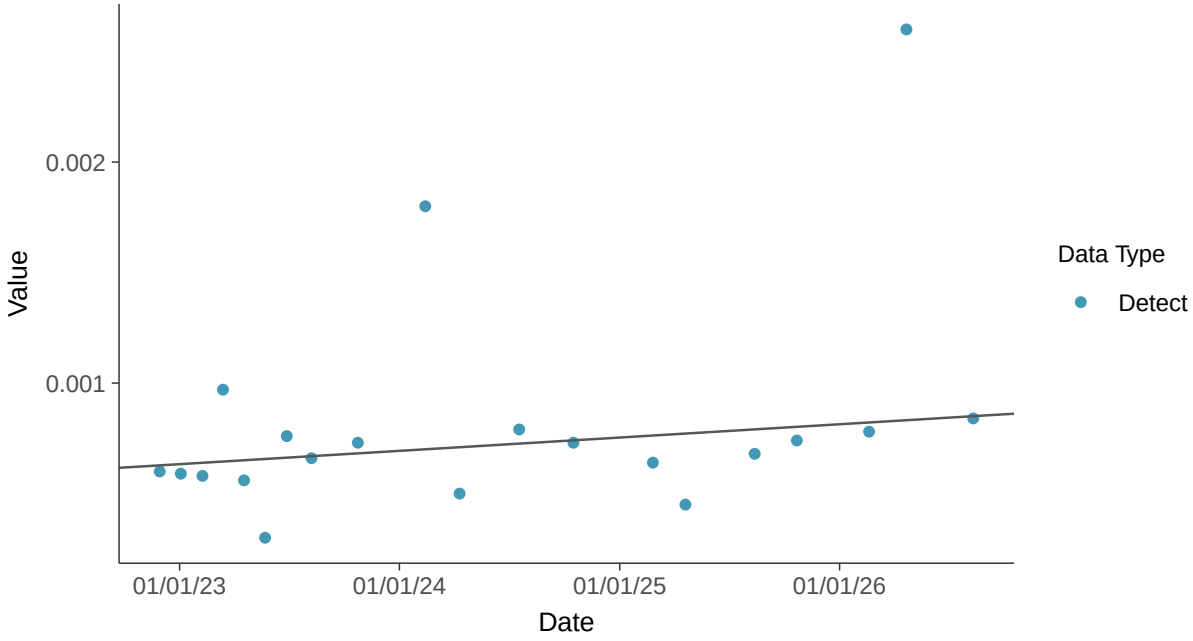
Normal Q-Q plot

Selenium, MW-01R (mg/L)



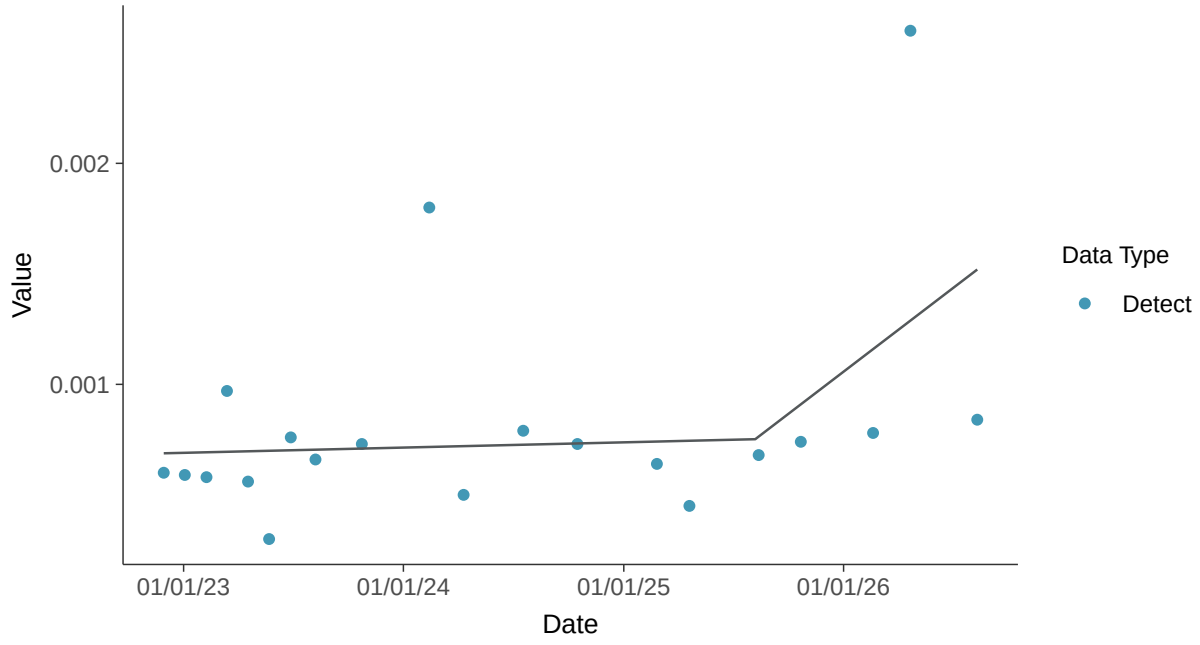
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Selenium, MW-01R (mg/L)



Trend Regression: Piecewise Linear-Linear

Selenium, MW-01R (mg/L)

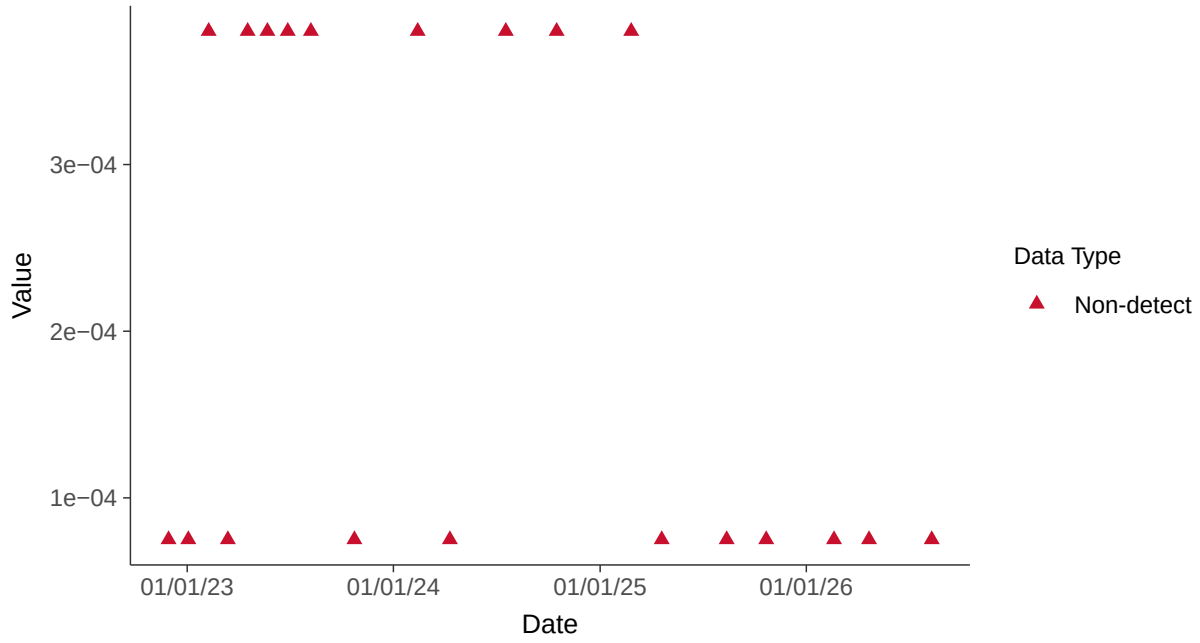


Appendix IV: Thallium, MW-01R

ID: 11_2_4_125

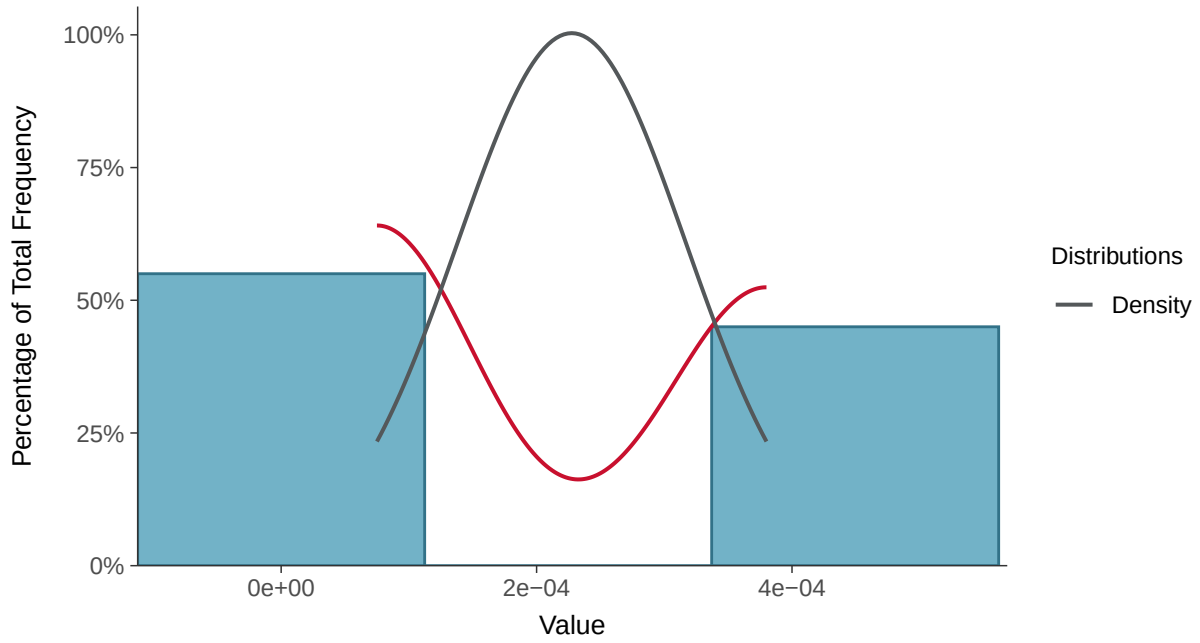
Scatter Plot

Thallium, MW-01R (mg/L)



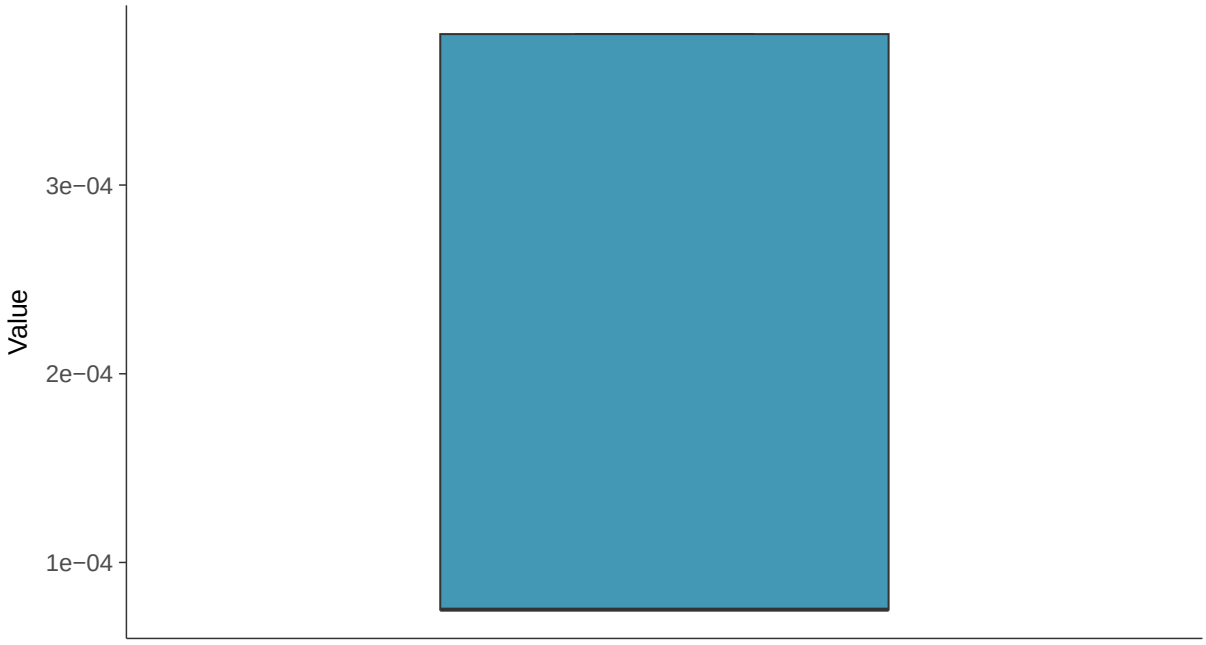
Histogram

Thallium, MW-01R (mg/L)



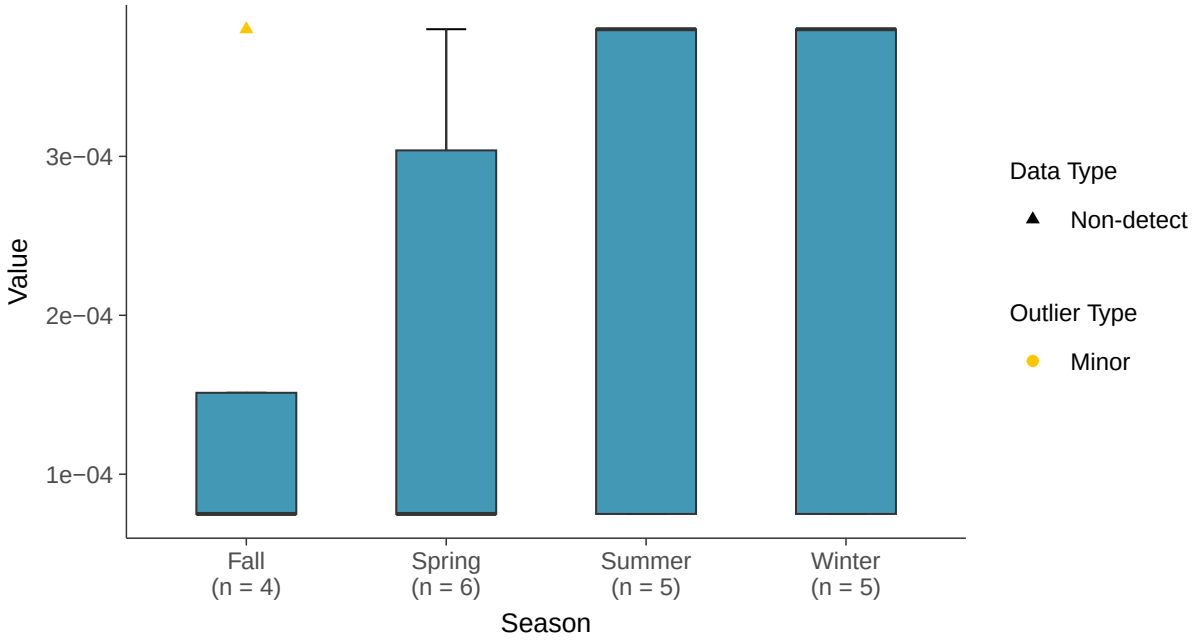
Boxplot

Thallium, MW-01R (mg/L)



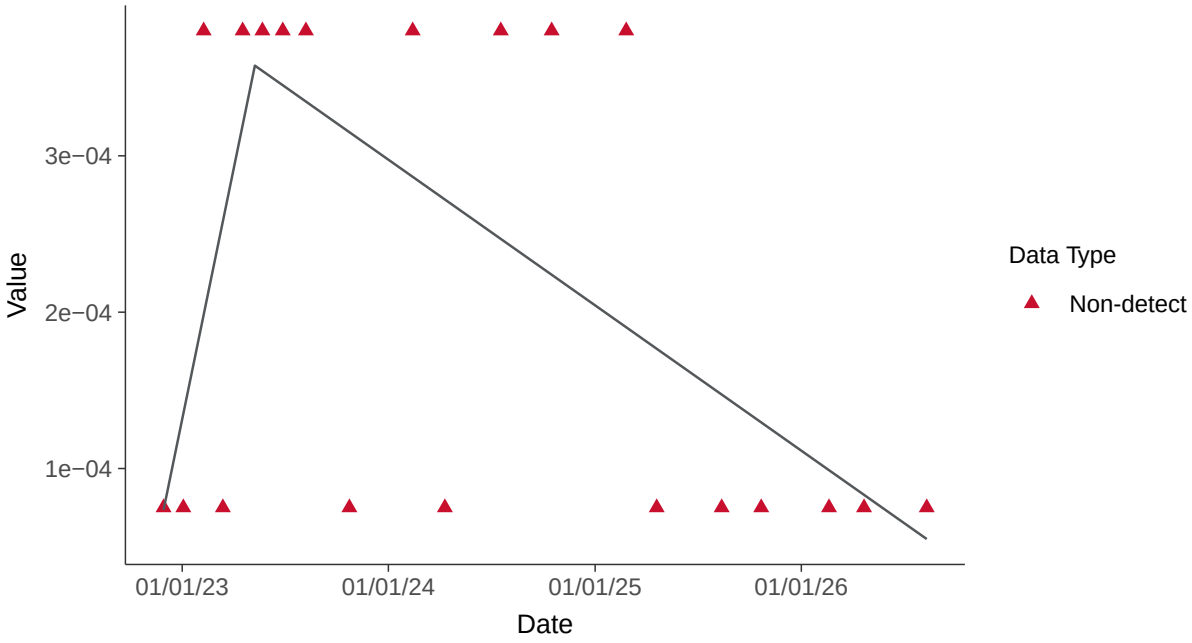
Boxplot by Season

Thallium, MW-01R (mg/L)



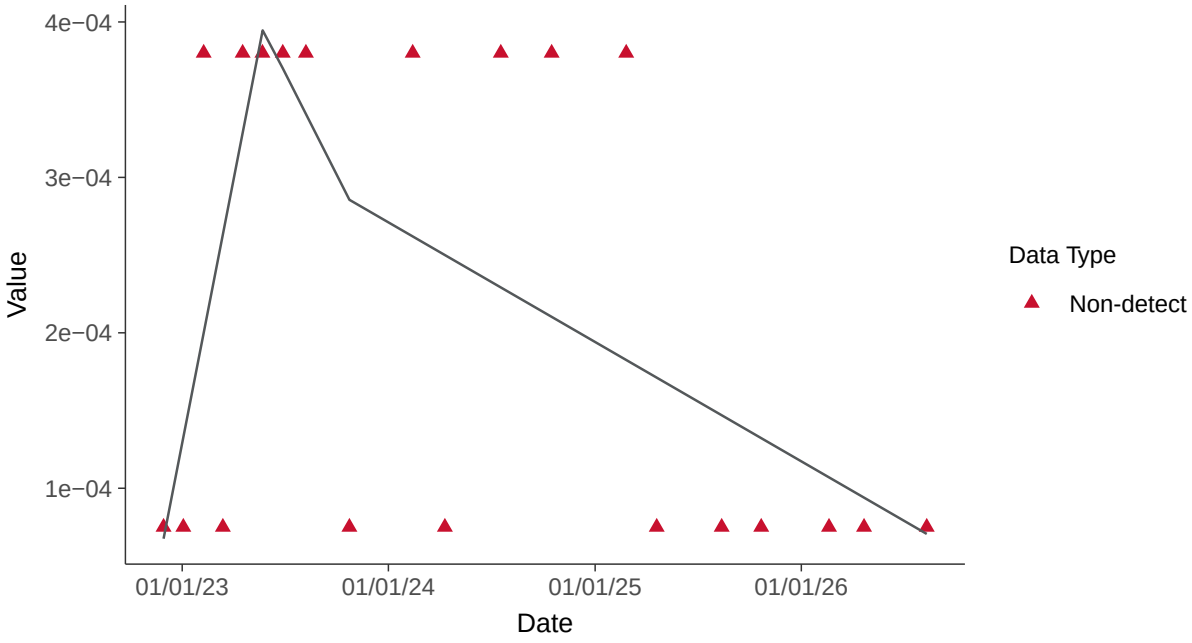
Trend Regression: Piecewise Linear-Linear

Thallium, MW-01R (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Thallium, MW-01R (mg/L)

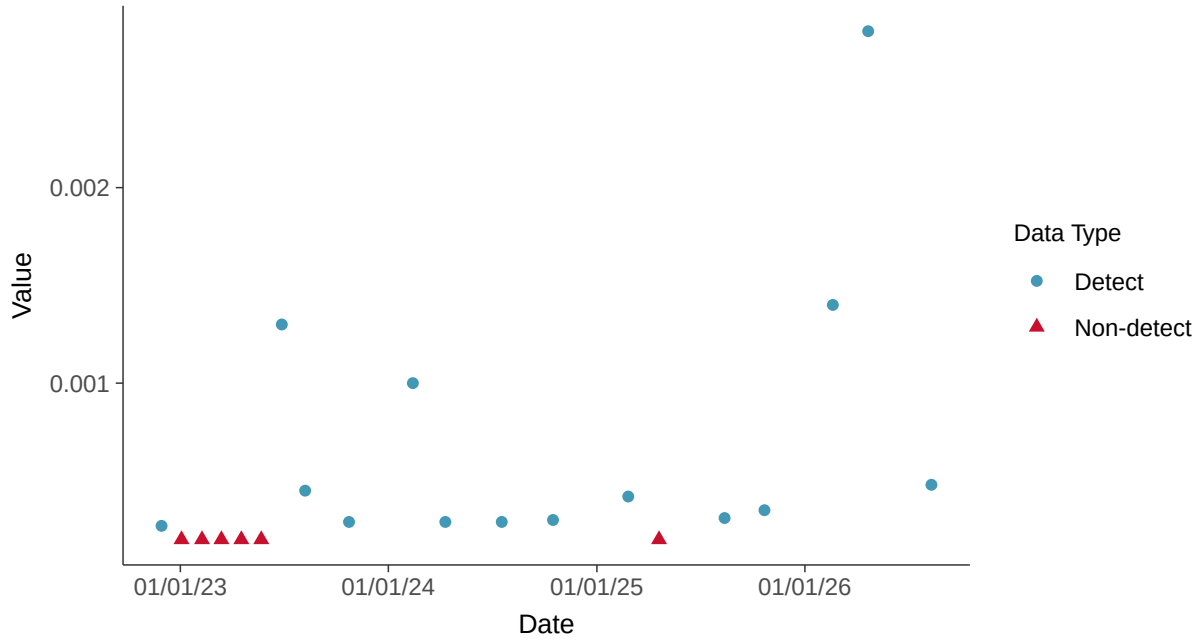


Part 115: Copper, MW-01R

ID: 11_2_5_111

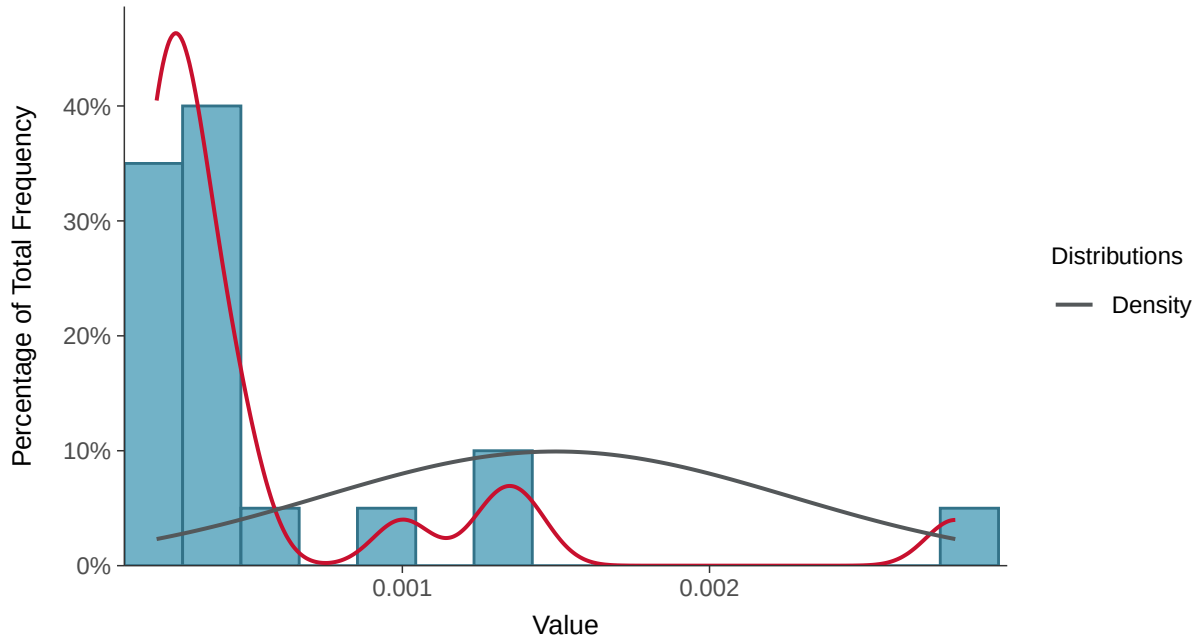
Scatter Plot

Copper, MW-01R (mg/L)



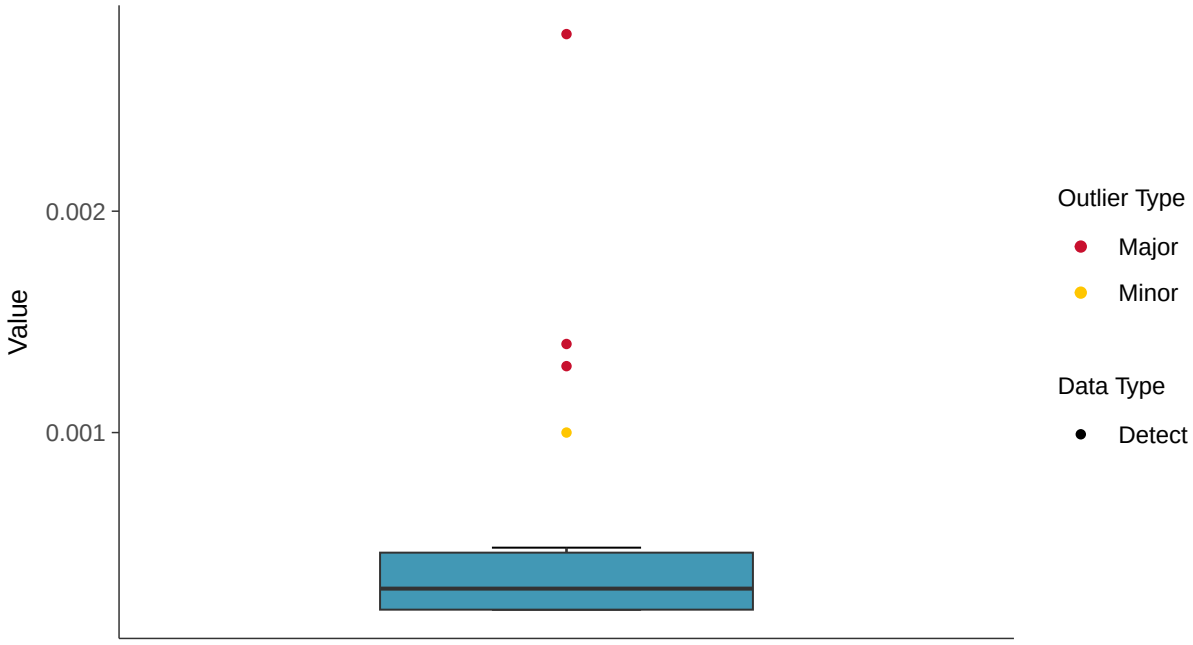
Histogram

Copper, MW-01R (mg/L)



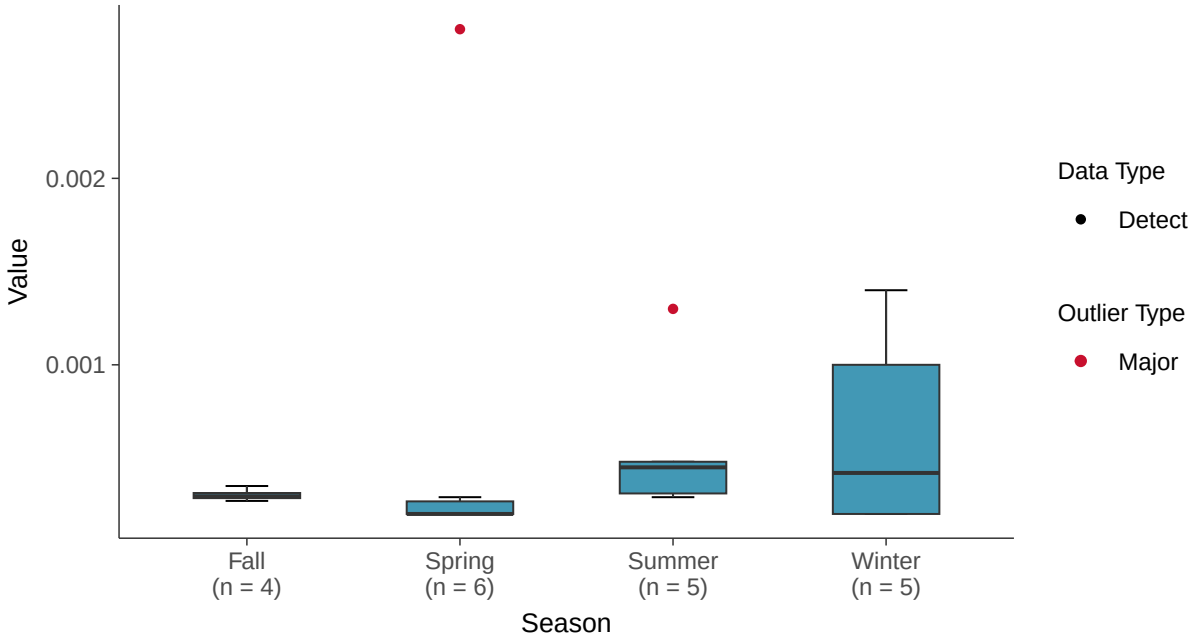
Boxplot

Copper, MW-01R (mg/L)



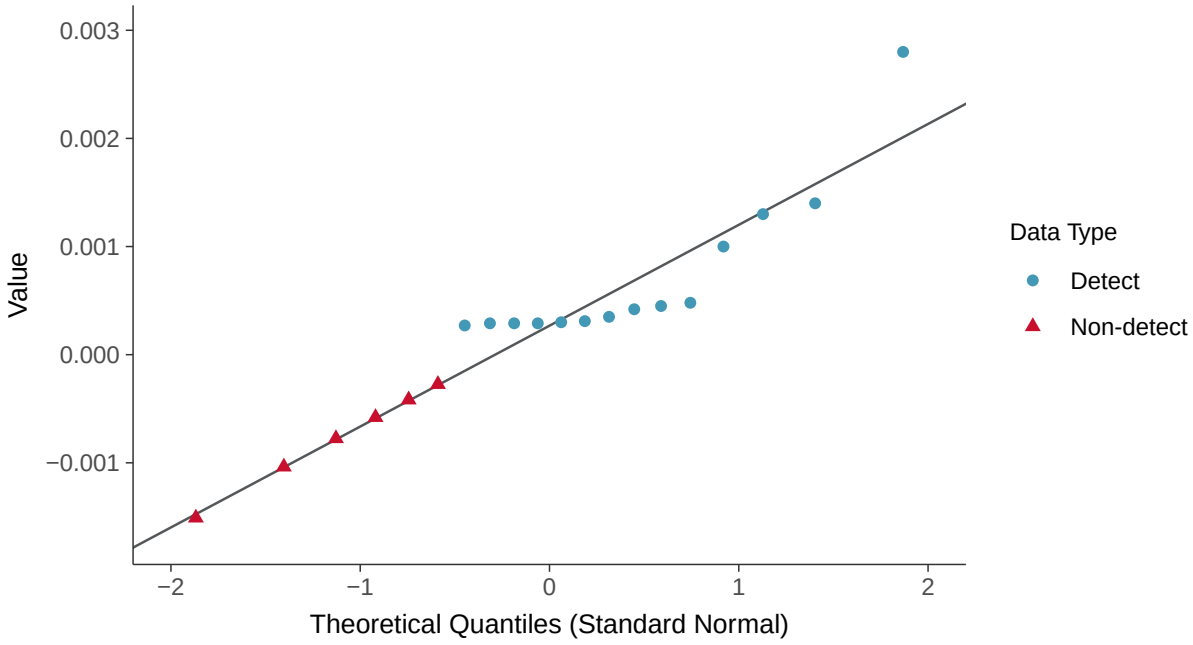
Boxplot by Season

Copper, MW-01R (mg/L)



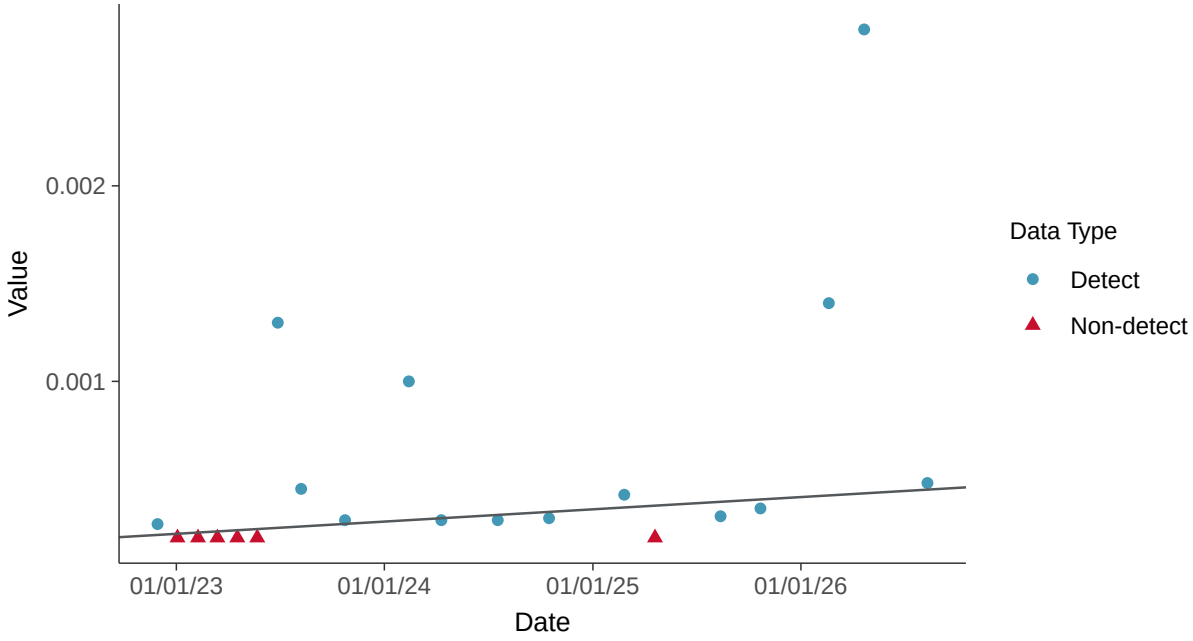
Normal Q-Q plot using ROS Imputed Estimates

Copper, MW-01R (mg/L)



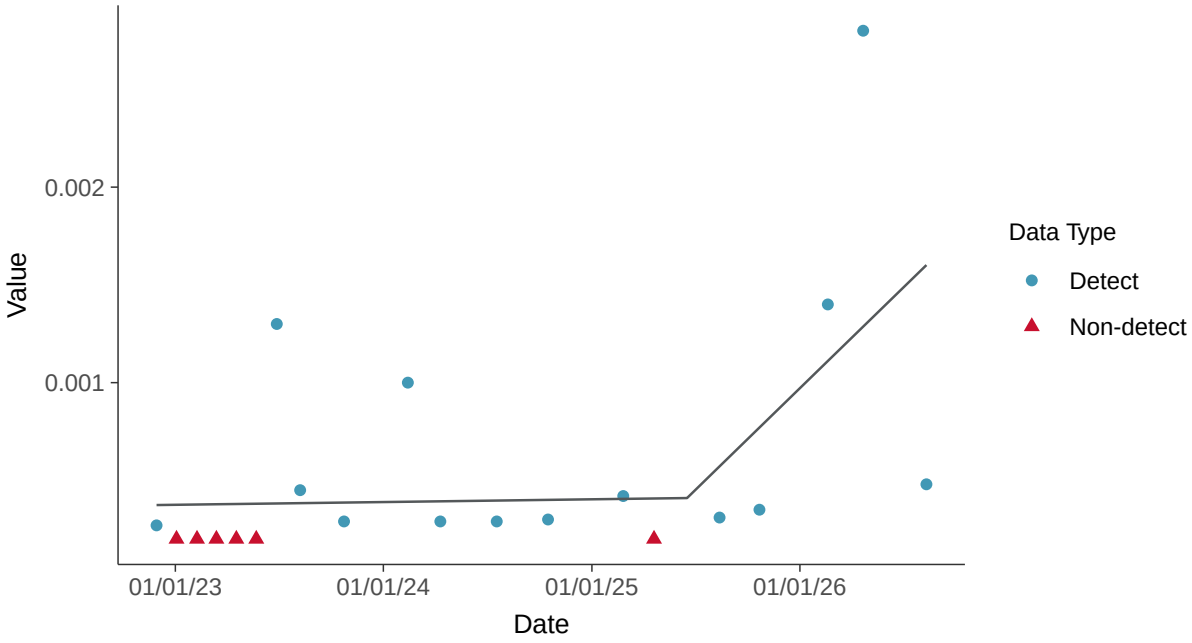
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Copper, MW-01R (mg/L)



Trend Regression: Piecewise Linear-Linear

Copper, MW-01R (mg/L)

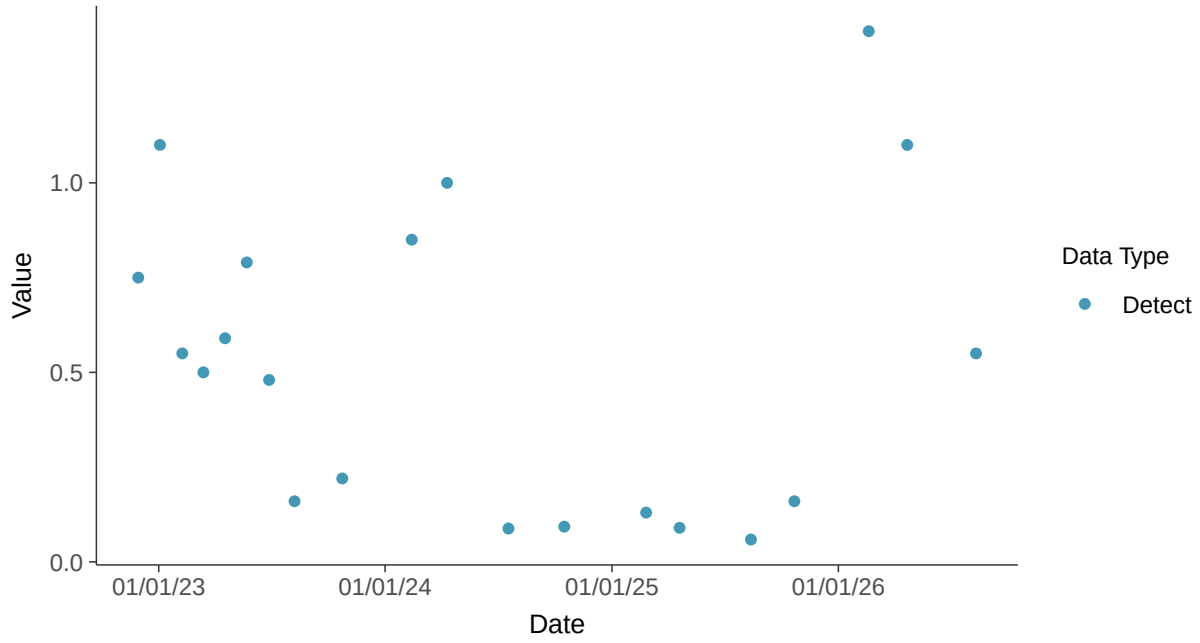


Part 115: Iron, MW-01R

ID: 11_2_5_114

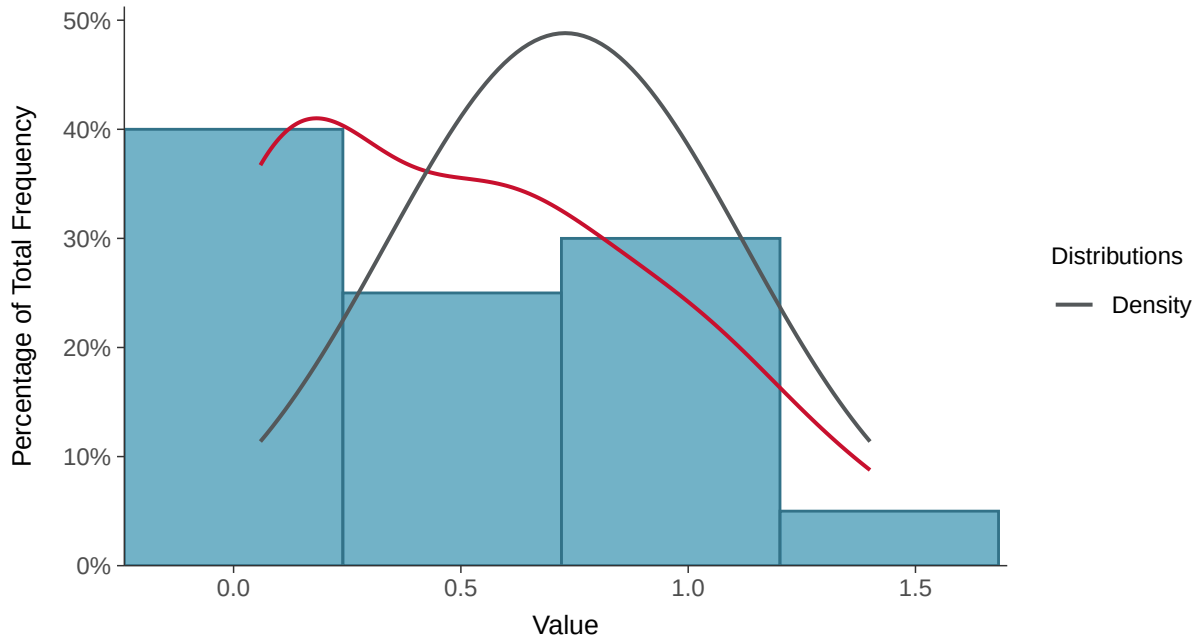
Scatter Plot

Iron, MW-01R (mg/L)



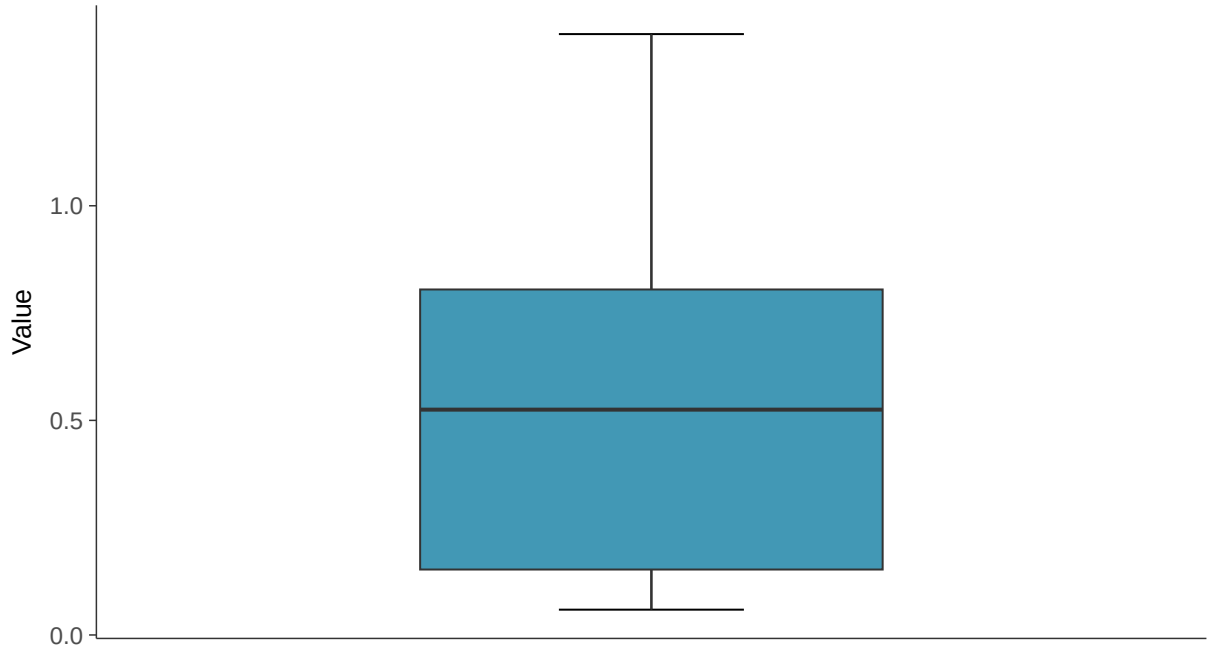
Histogram

Iron, MW-01R (mg/L)



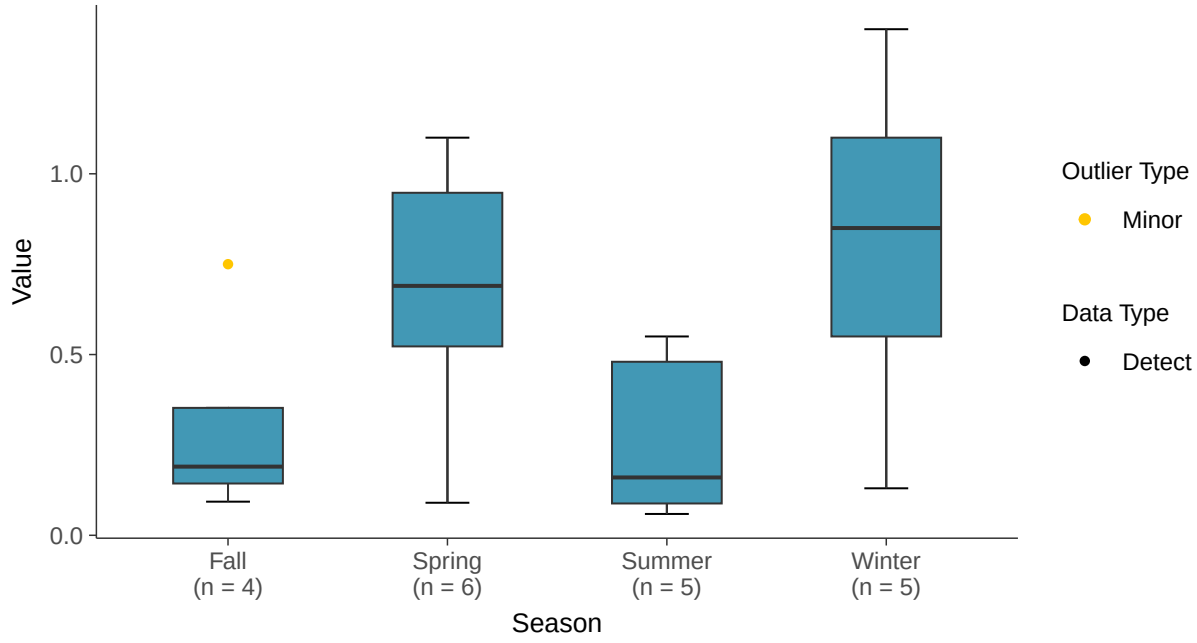
Boxplot

Iron, MW-01R (mg/L)



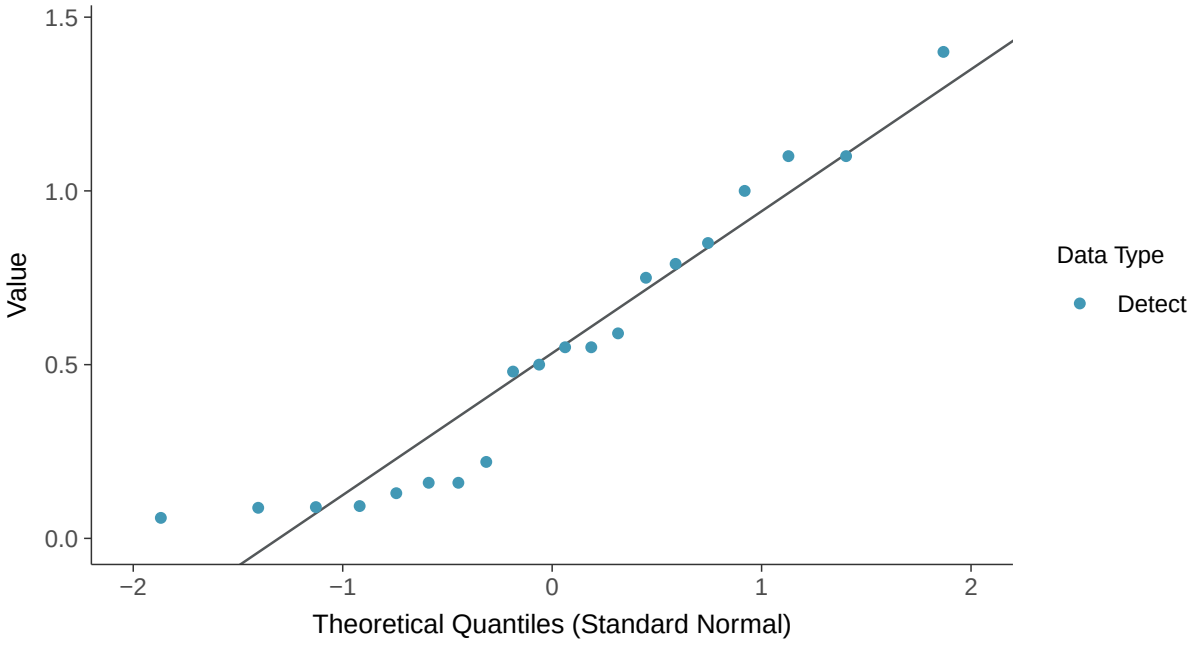
Boxplot by Season

Iron, MW-01R (mg/L)



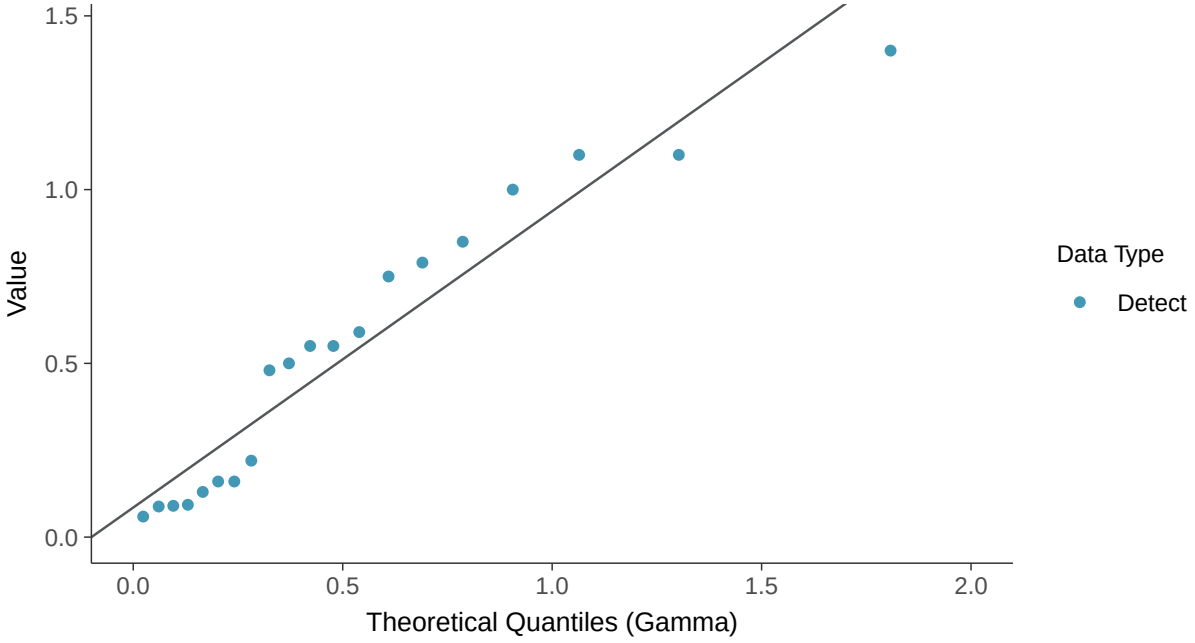
Normal Q-Q plot

Iron, MW-01R (mg/L)



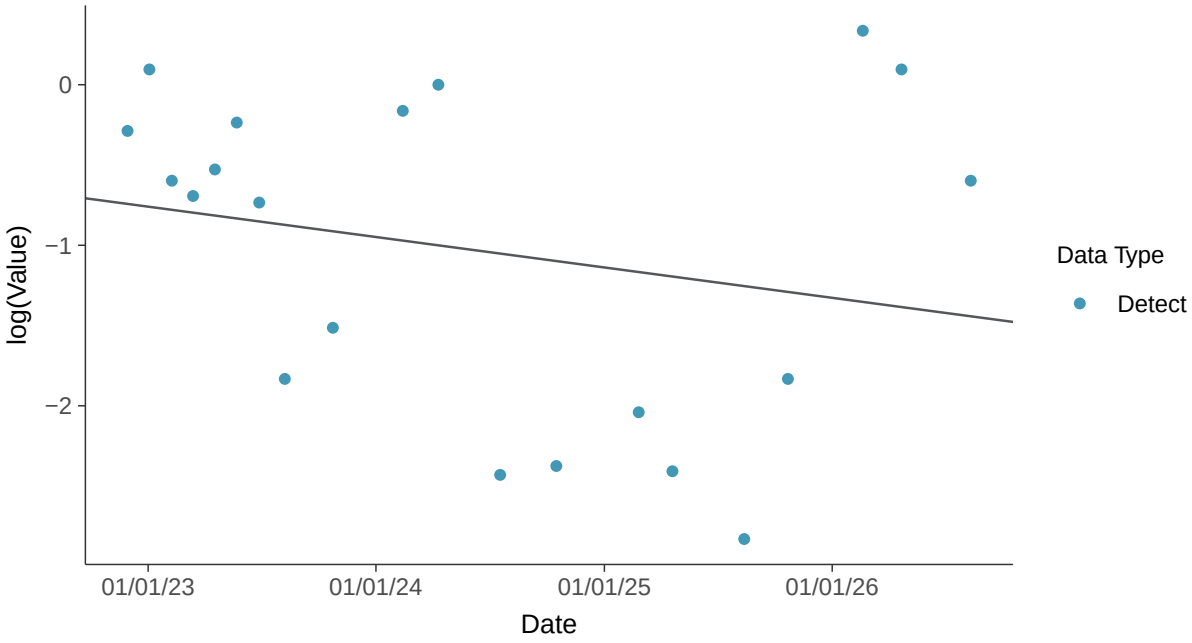
Gamma Q-Q plot

Iron, MW-01R (mg/L)



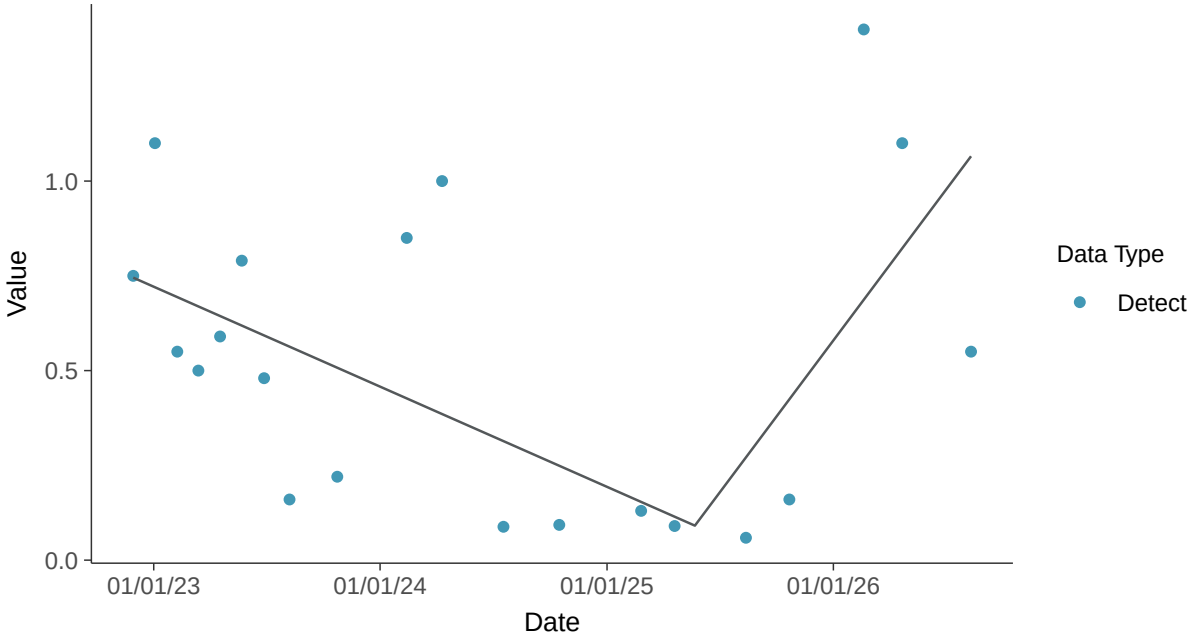
Trend Regression: Lognormal MLE

Iron, MW-01R (mg/L)



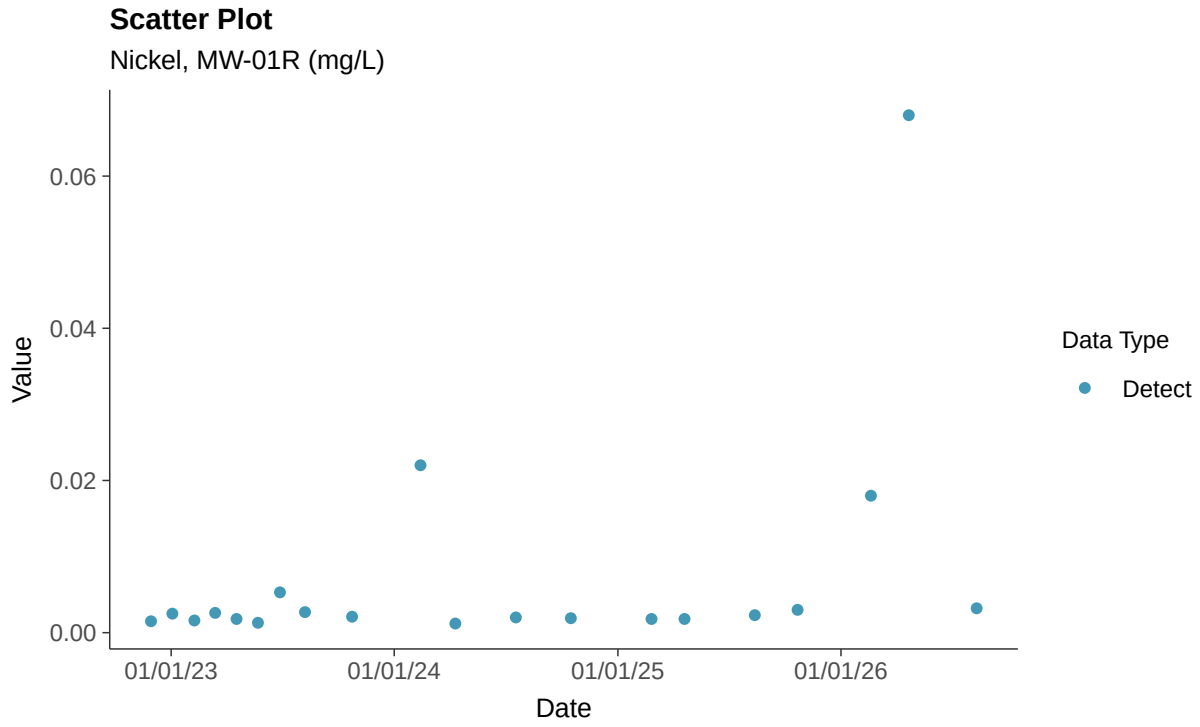
Trend Regression: Piecewise Linear-Linear

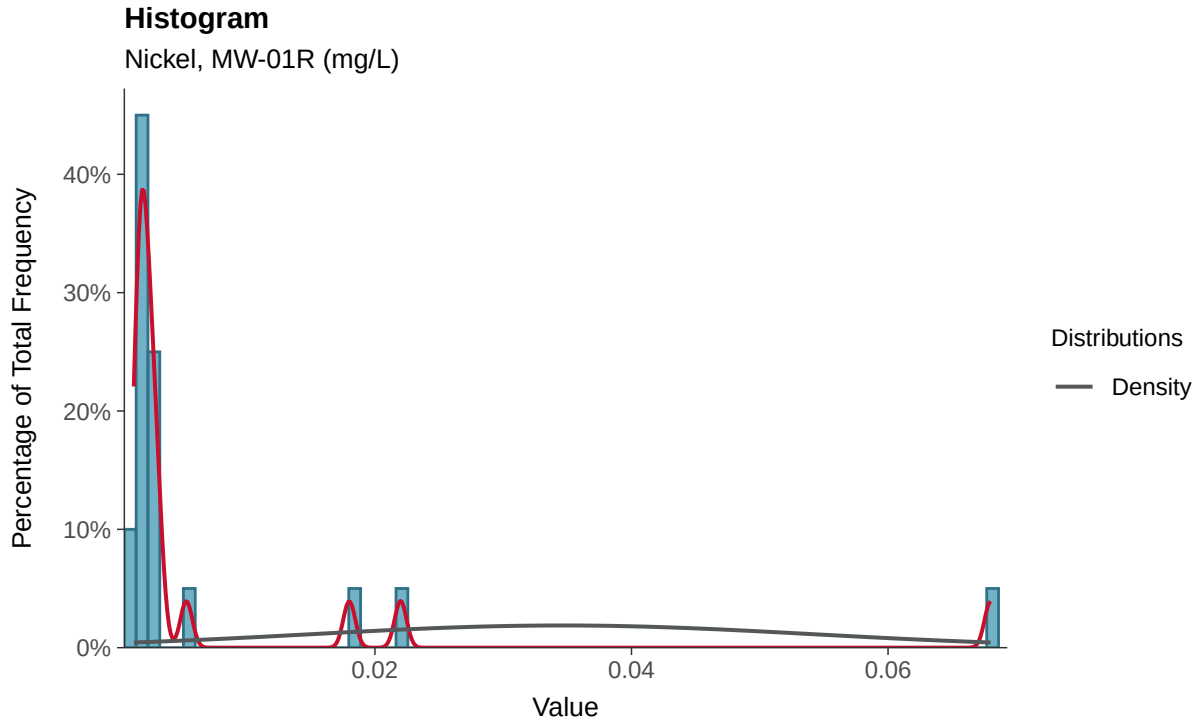
Iron, MW-01R (mg/L)



Part 115: Nickel, MW-01R

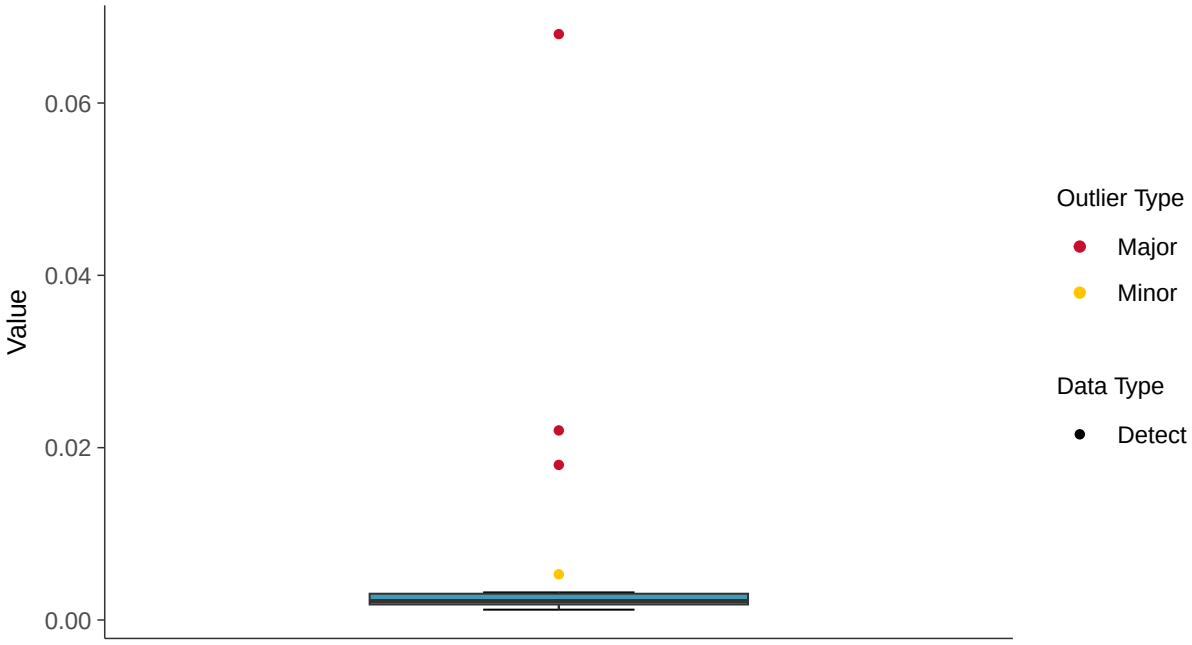
ID: 11_2_5_119





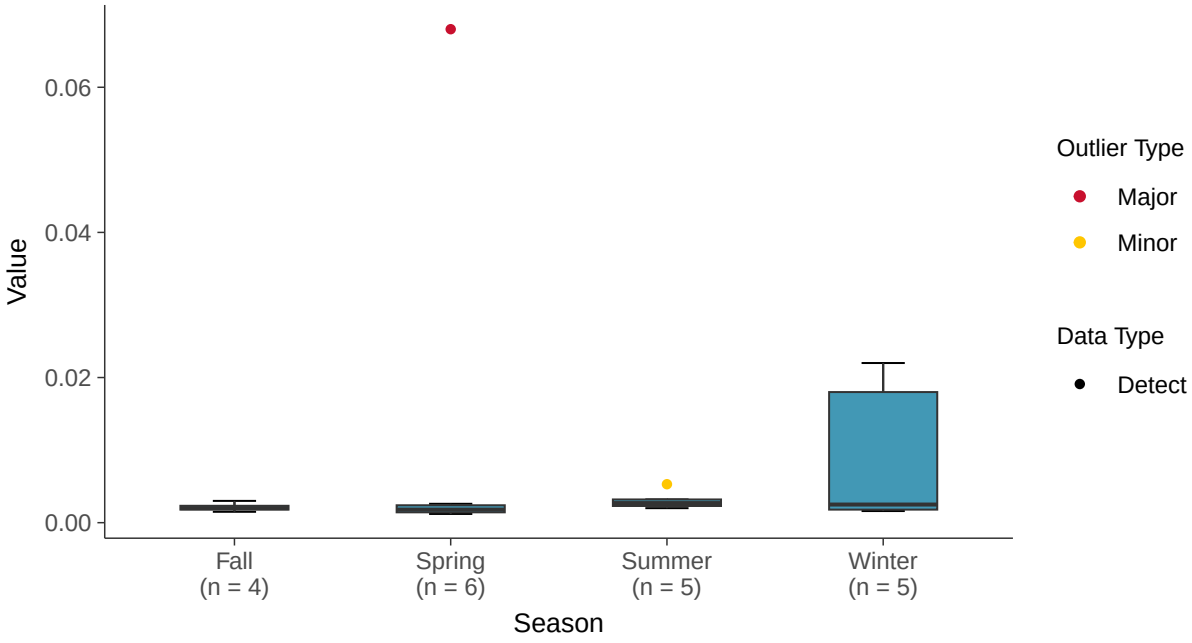
Boxplot

Nickel, MW-01R (mg/L)



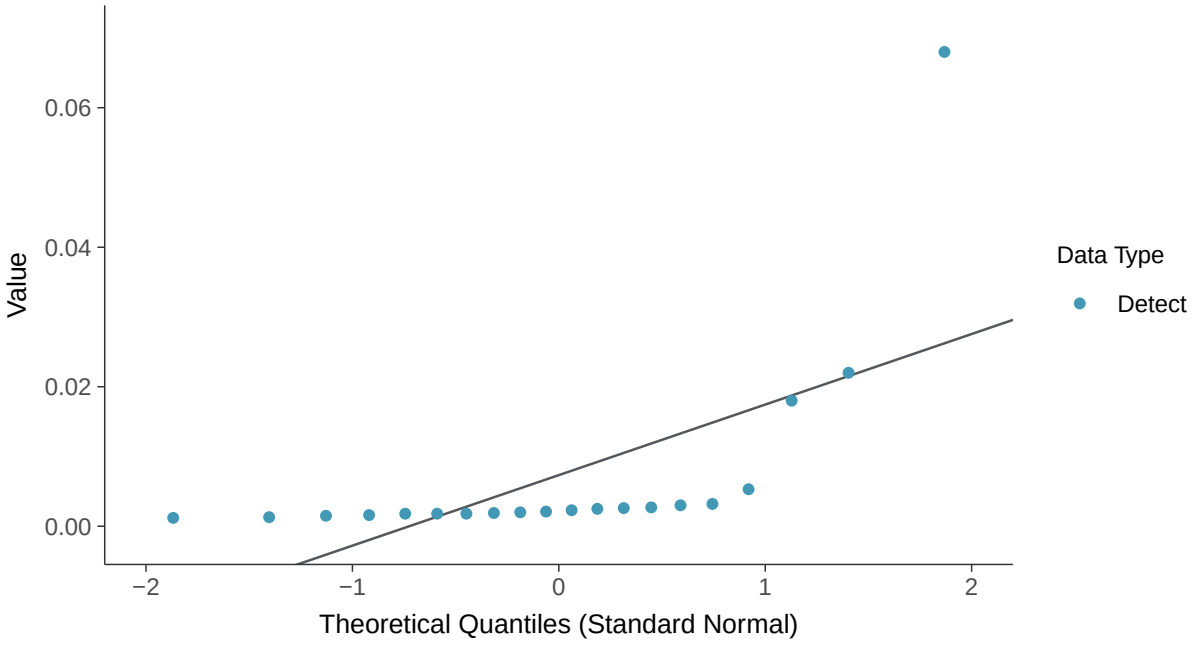
Boxplot by Season

Nickel, MW-01R (mg/L)



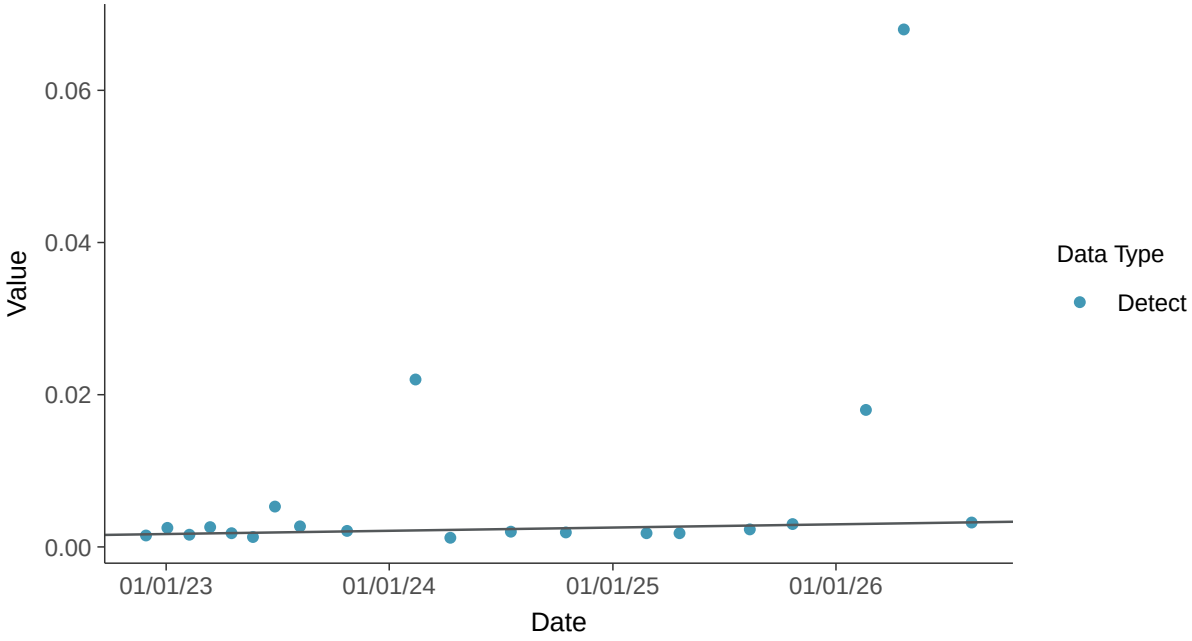
Normal Q-Q plot

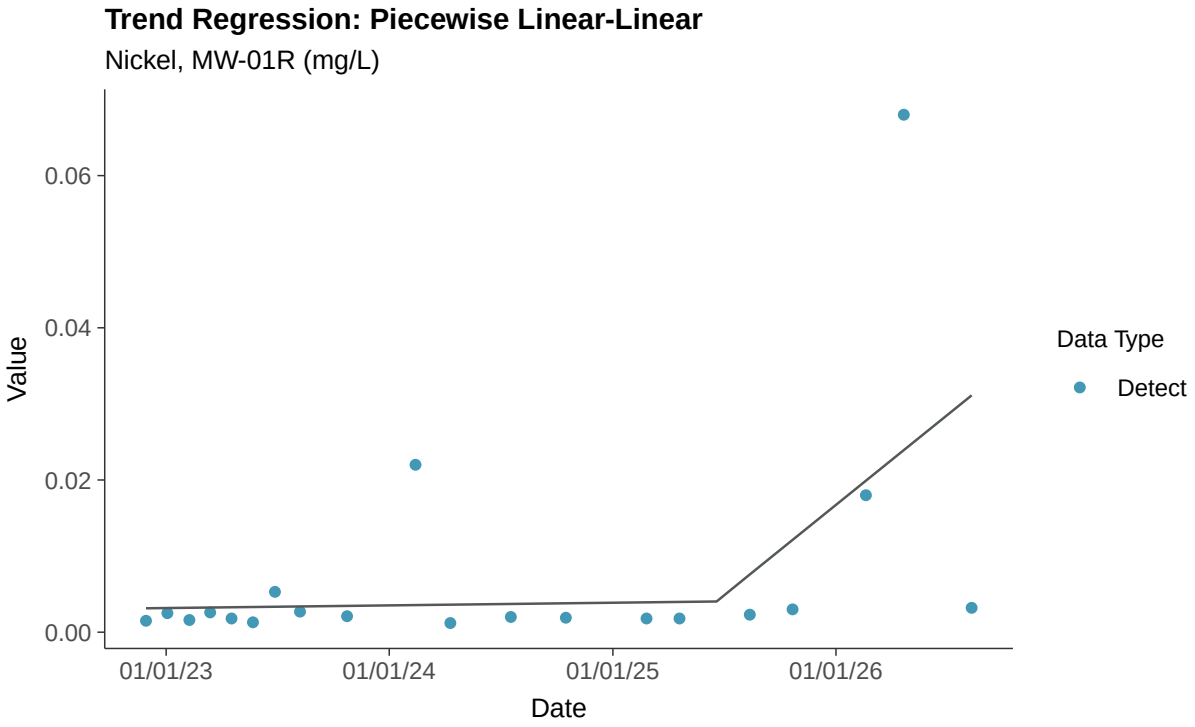
Nickel, MW-01R (mg/L)



Trend Regression: Mann-Kendall/Theil-Sen Estimate

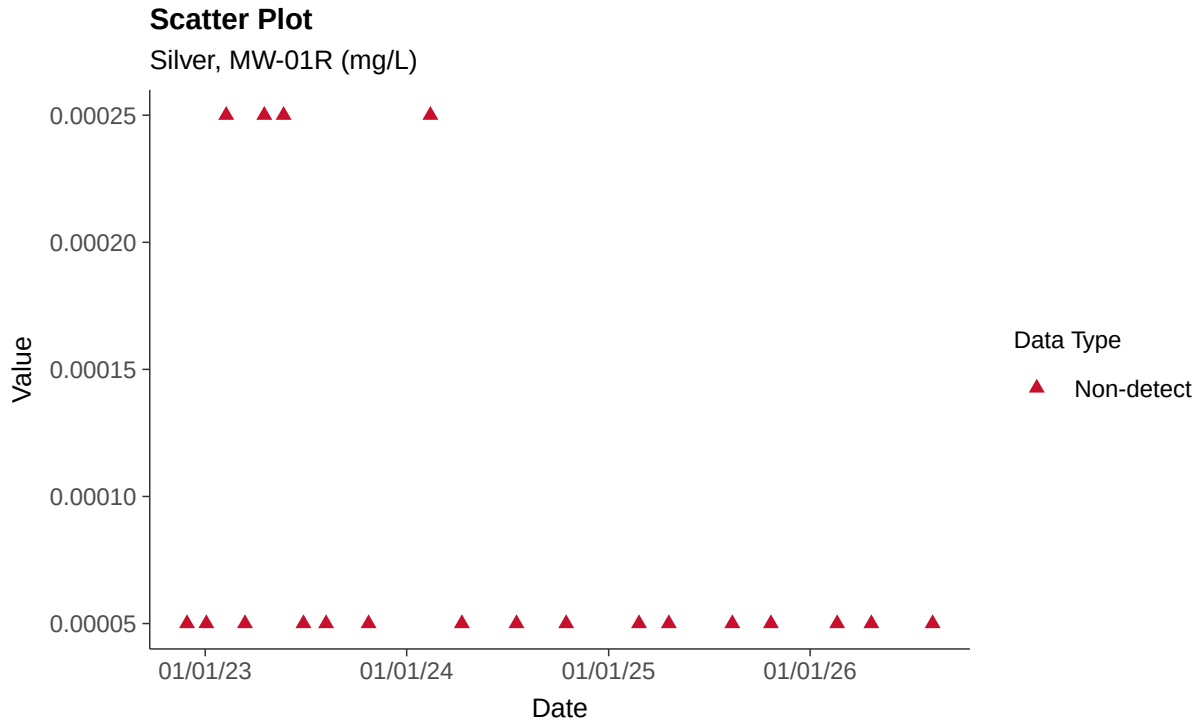
Nickel, MW-01R (mg/L)

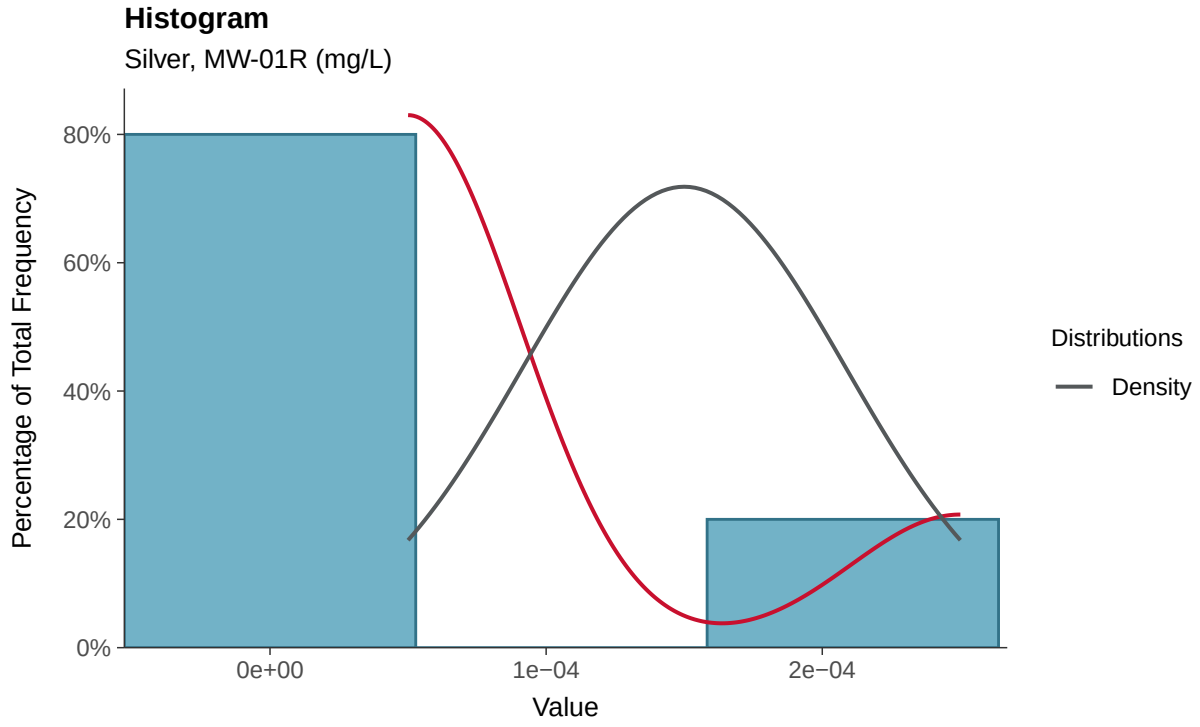



Trend Regression: Piecewise Linear-Linear
Nickel, MW-01R (mg/L)
Value
0.06
0.04
0.02
0.00
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect

Part 115: Silver, MW-01R

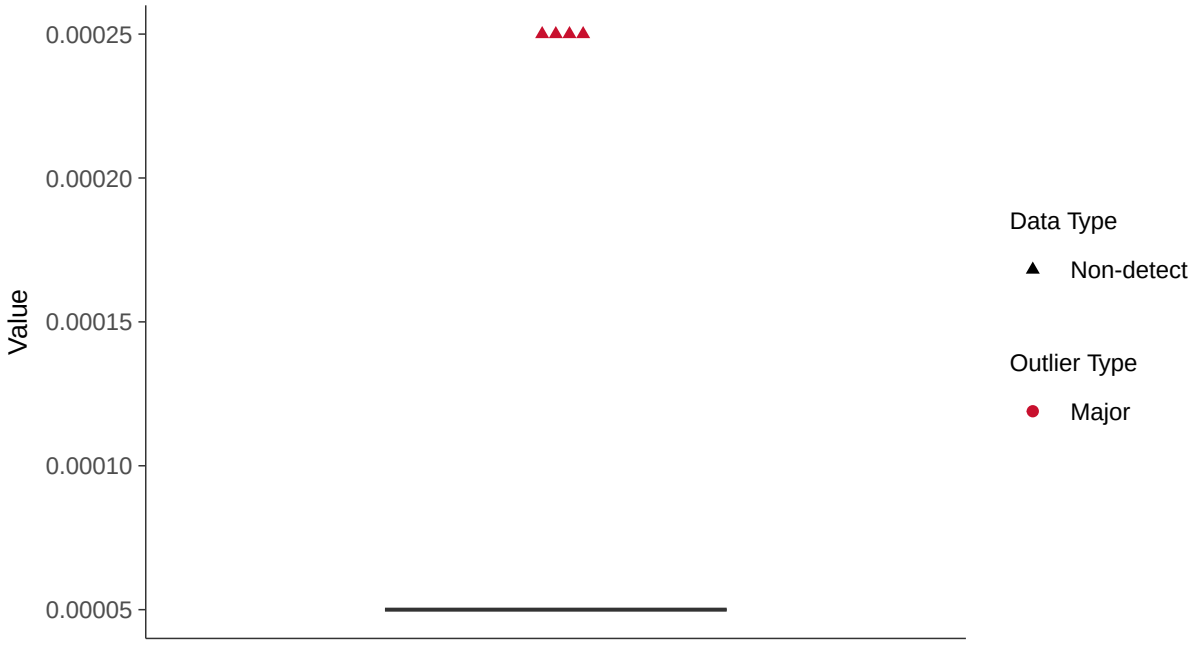
ID: 11_2_5_123





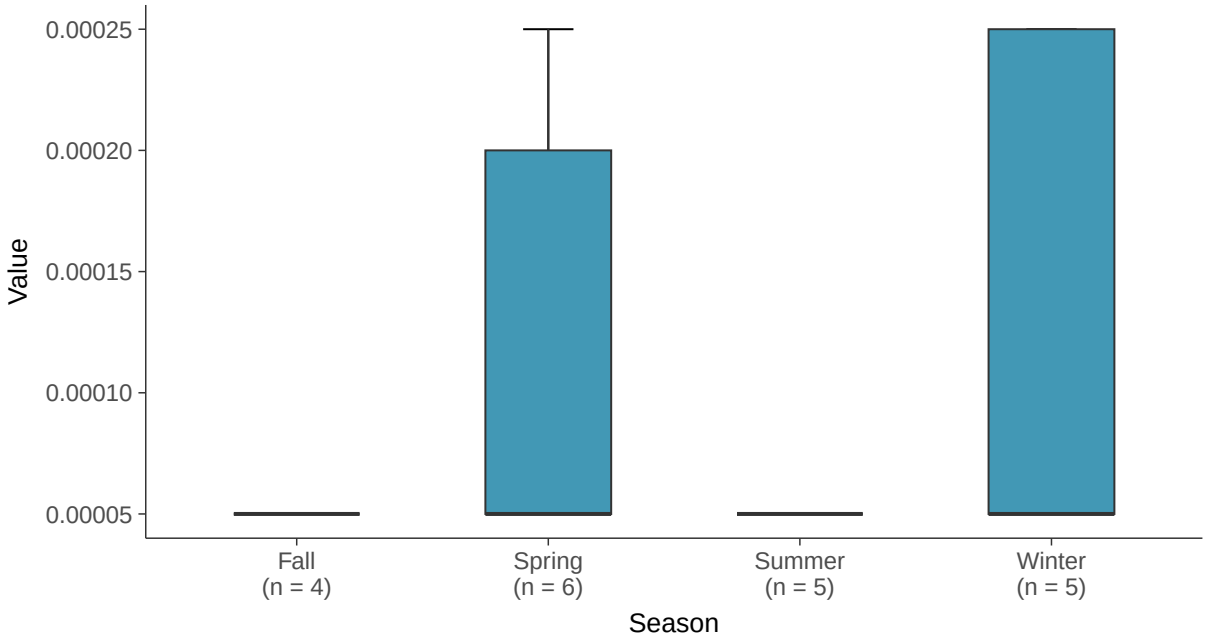
Boxplot

Silver, MW-01R (mg/L)



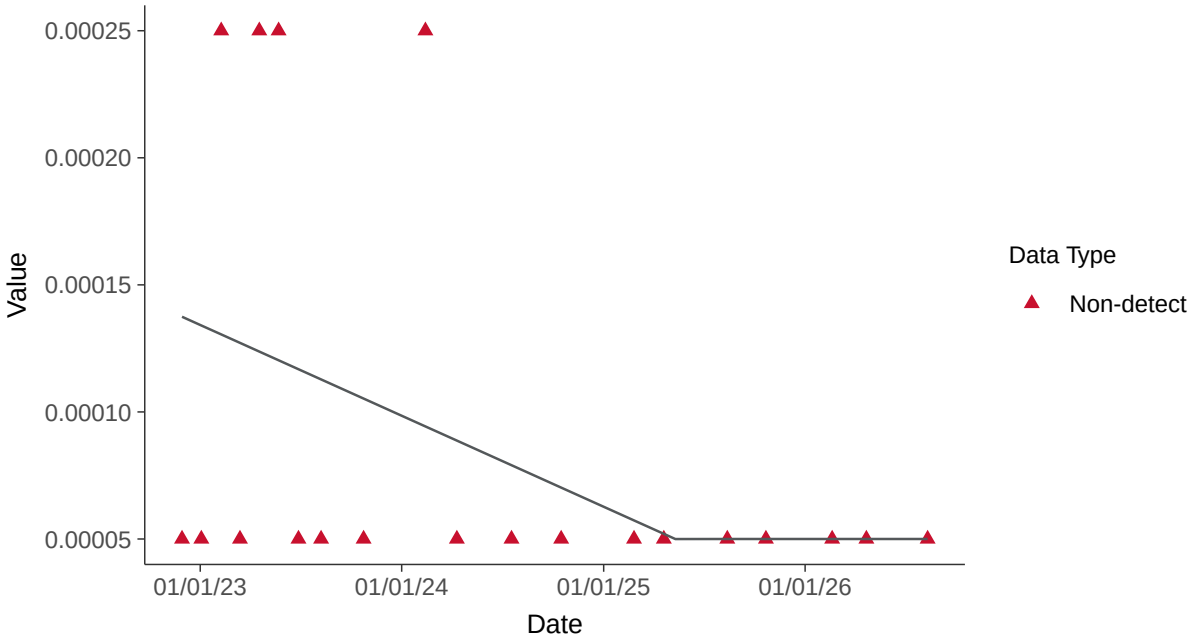
Boxplot by Season

Silver, MW-01R (mg/L)



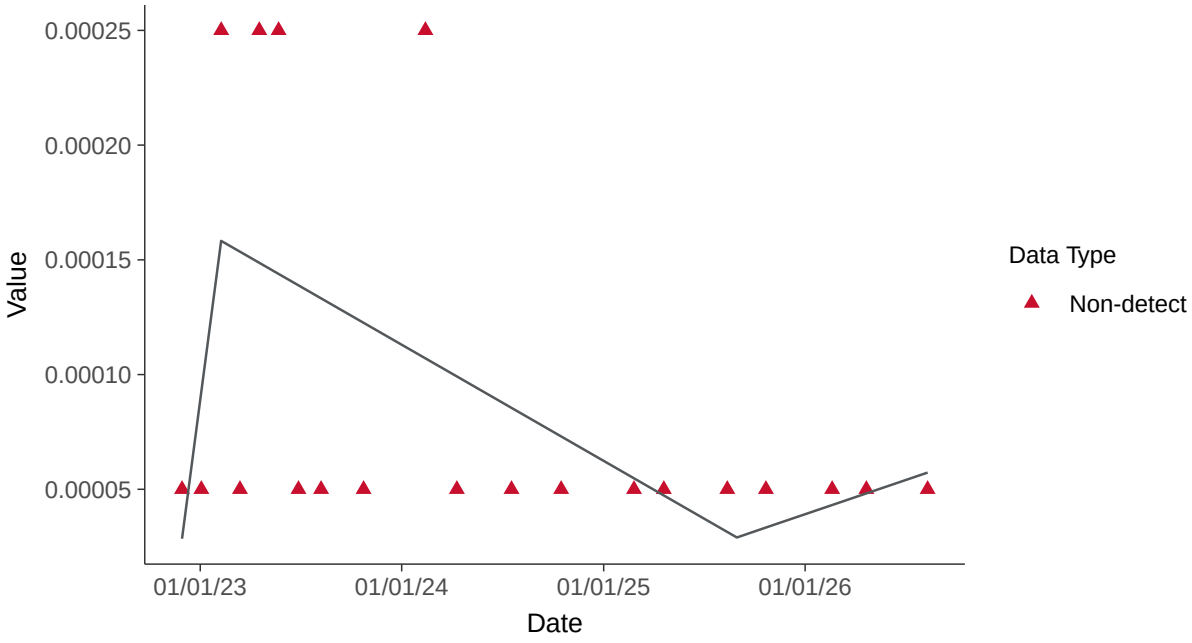
Trend Regression: Piecewise Linear-Linear

Silver, MW-01R (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Silver, MW-01R (mg/L)

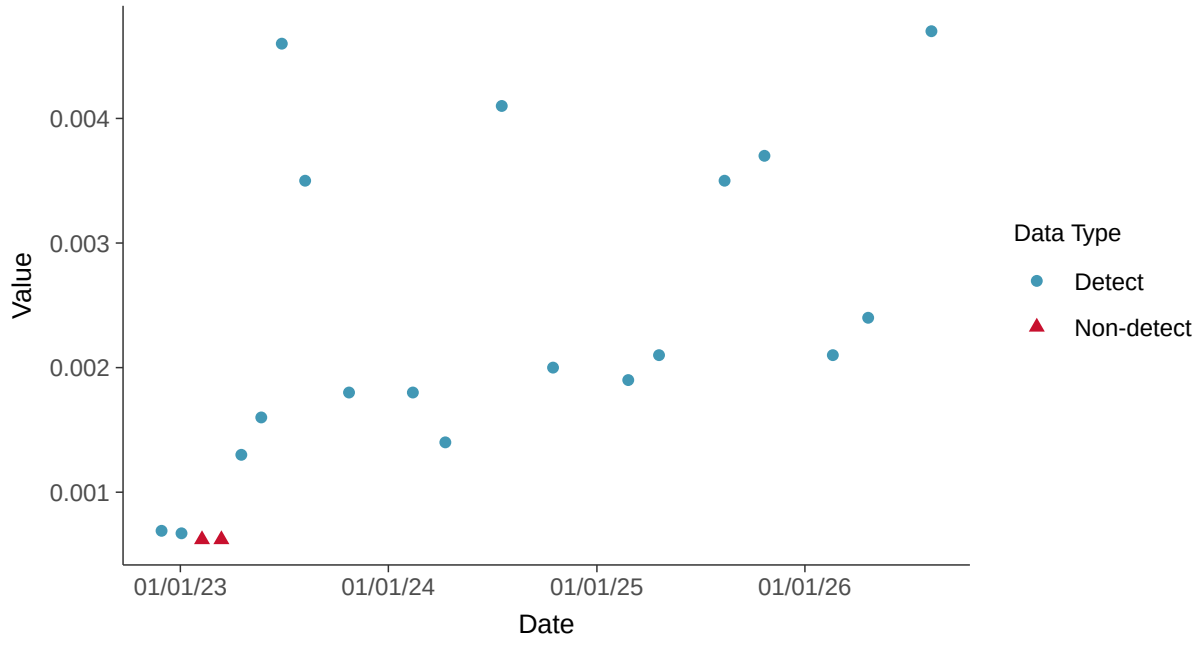


Part 115: Vanadium, MW-01R

ID: 11_2_5_128

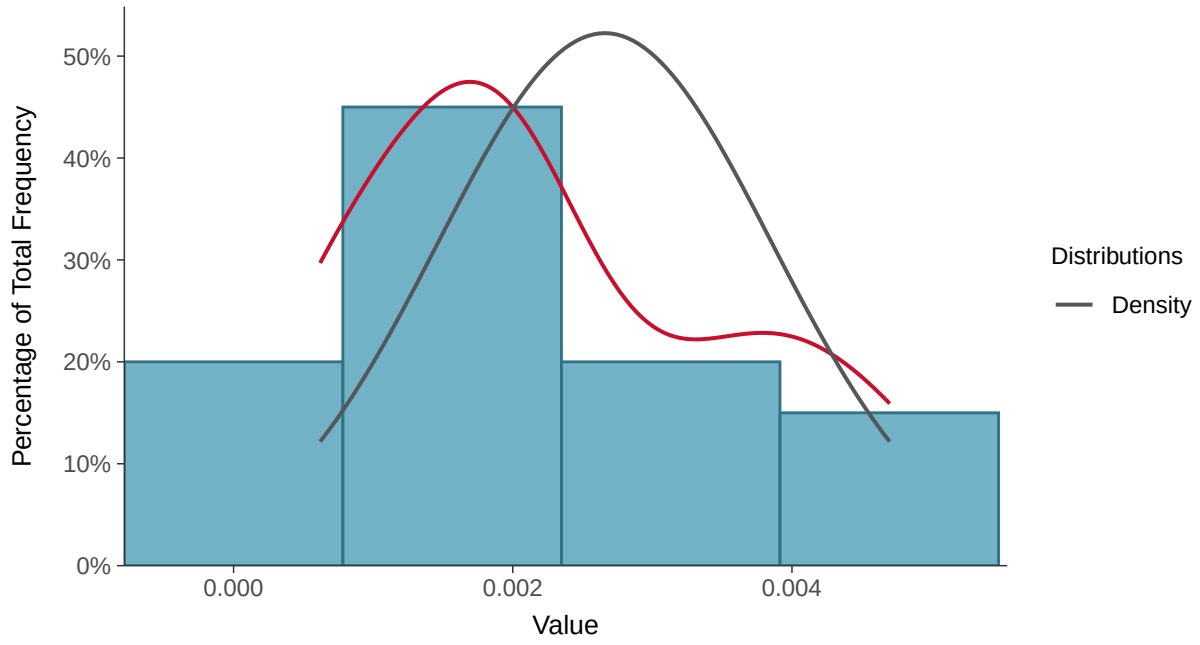
Scatter Plot

Vanadium, MW-01R (mg/L)



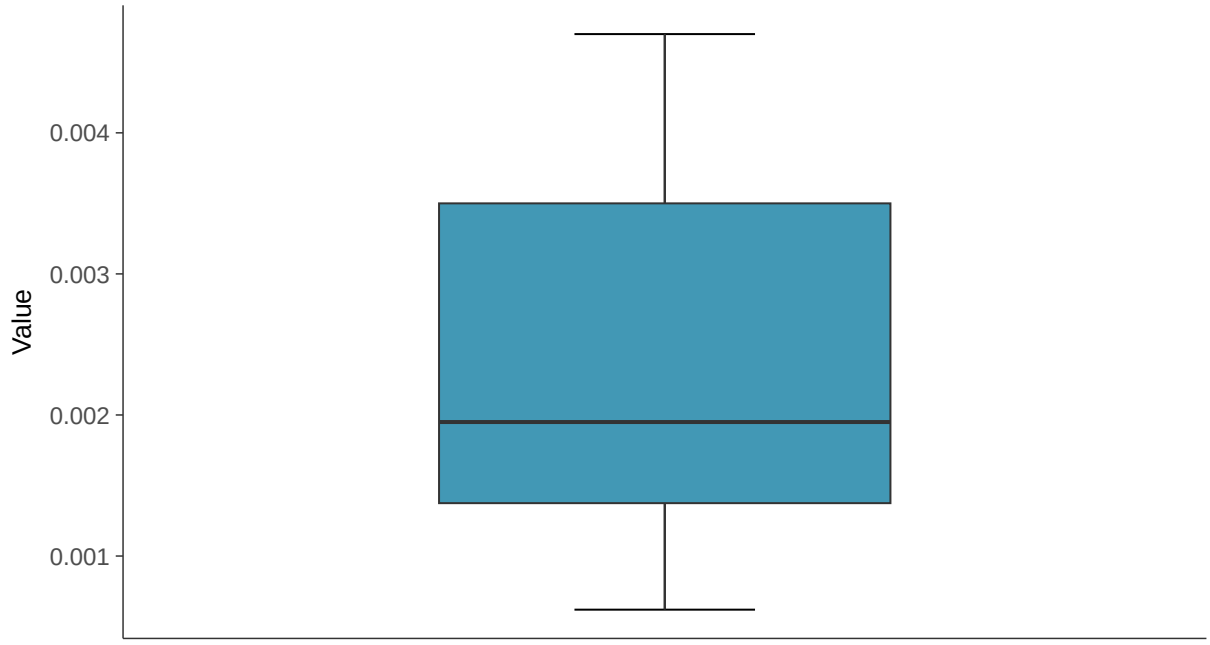
Histogram

Vanadium, MW-01R (mg/L)



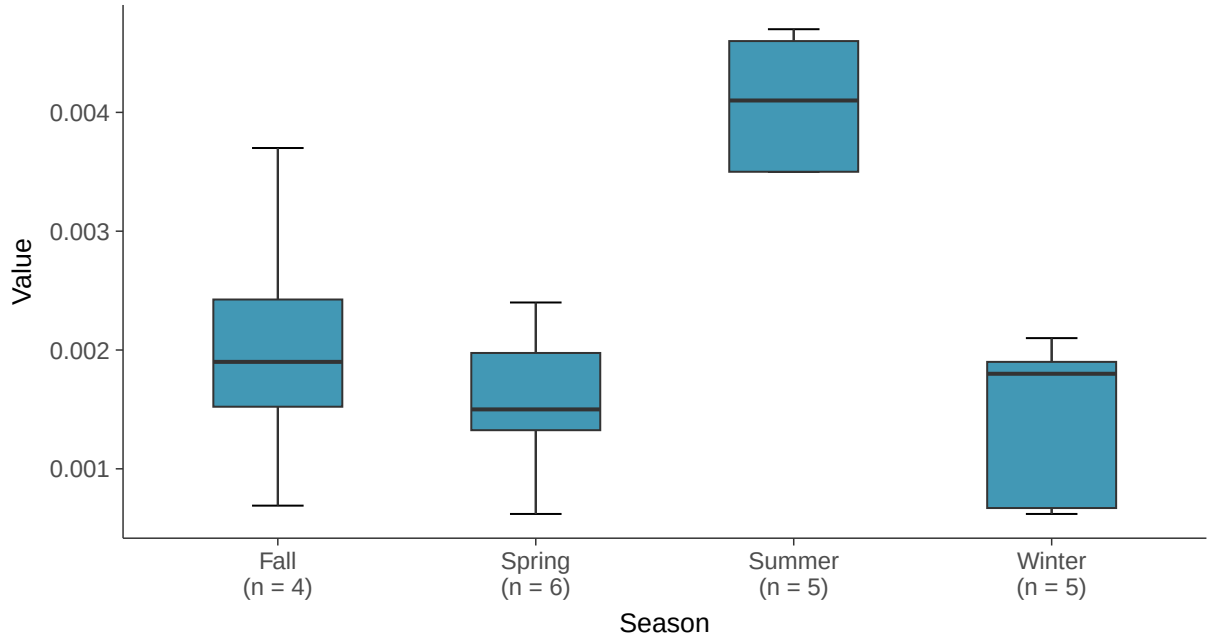
Boxplot

Vanadium, MW-01R (mg/L)



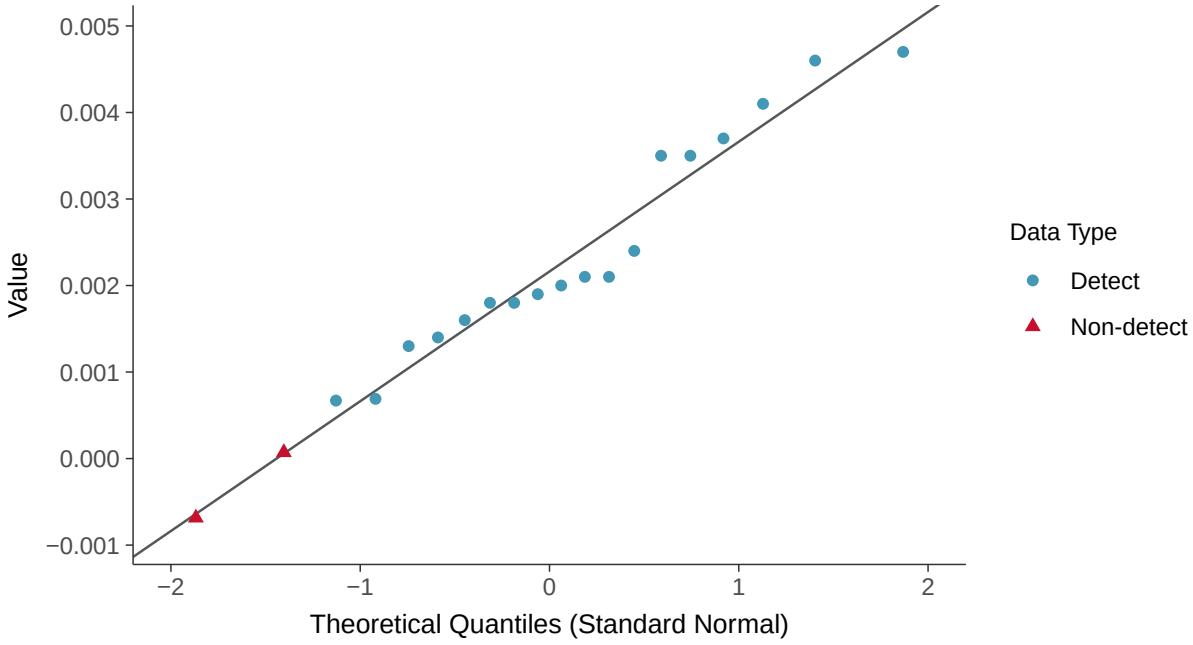
Boxplot by Season

Vanadium, MW-01R (mg/L)



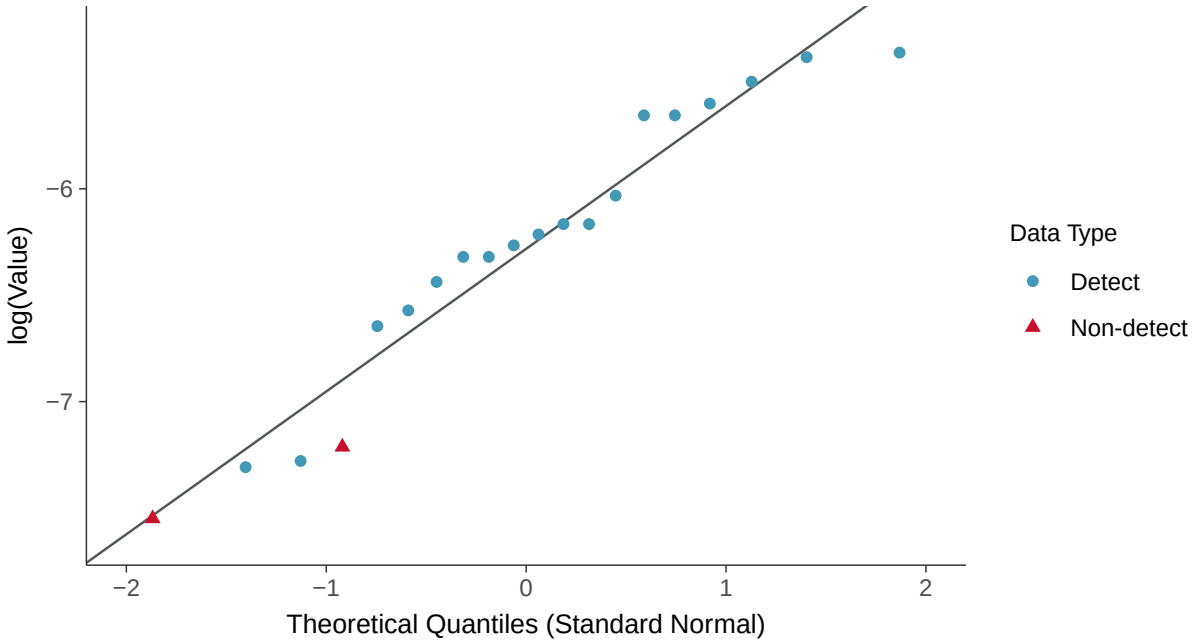
Normal Q-Q plot using ROS Imputed Estimates

Vanadium, MW-01R (mg/L)



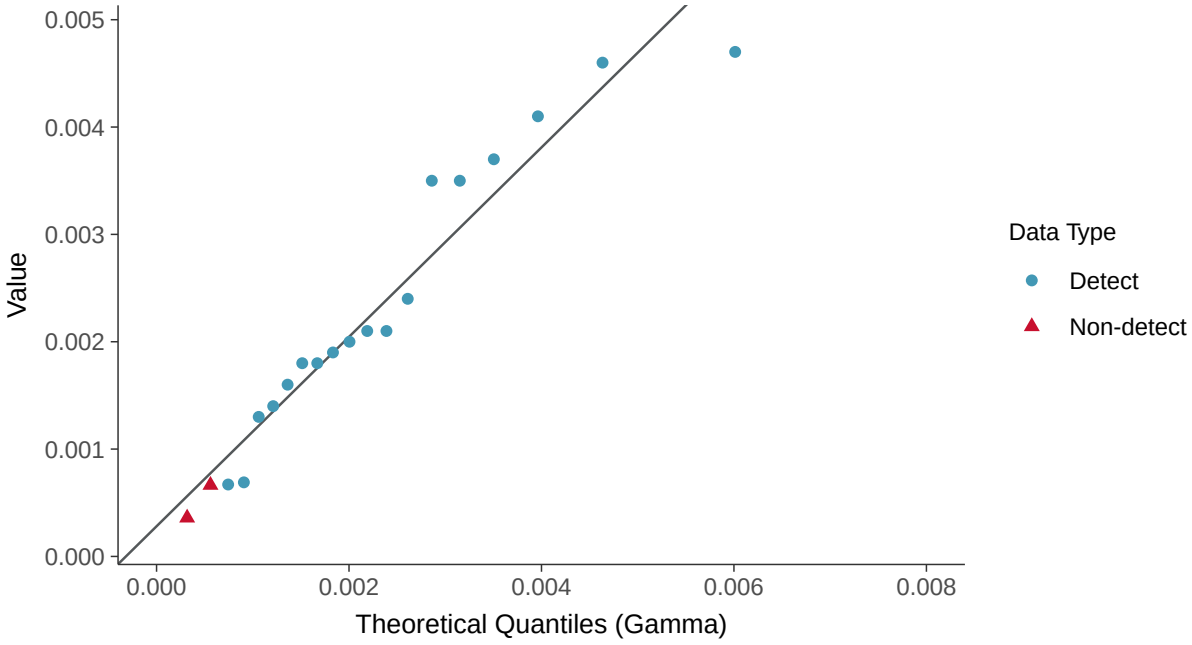
Lognormal Q-Q plot using ROS Imputed Estimates

Vanadium, MW-01R (mg/L)



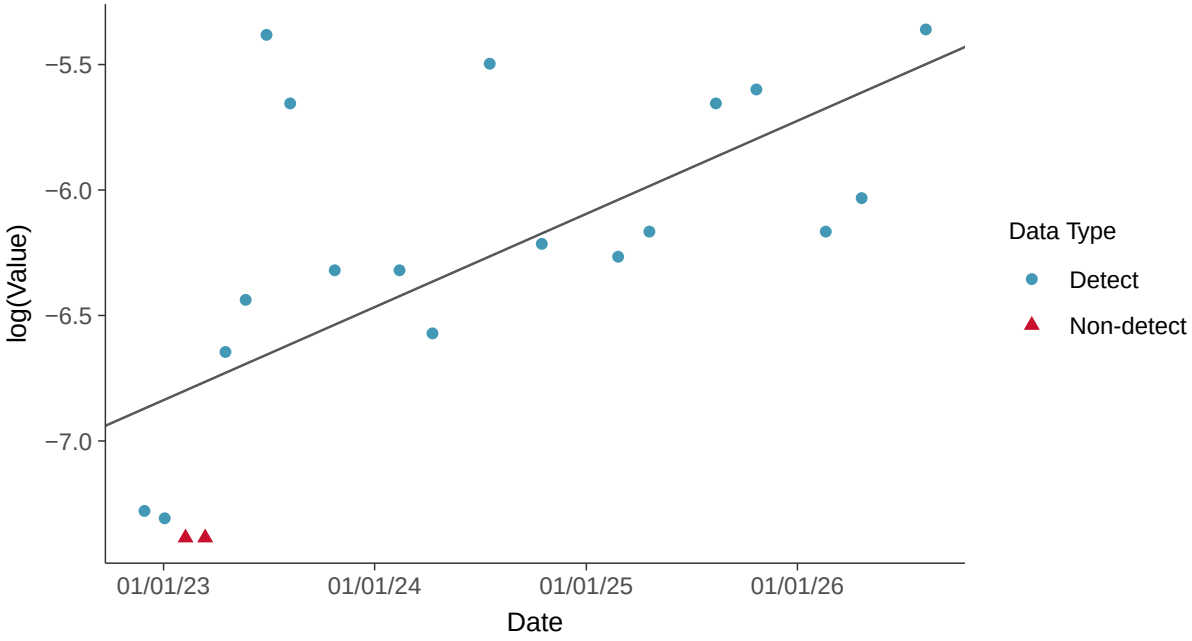
Gamma Q-Q plot using ROS Imputed Estimates

Vanadium, MW-01R (mg/L)



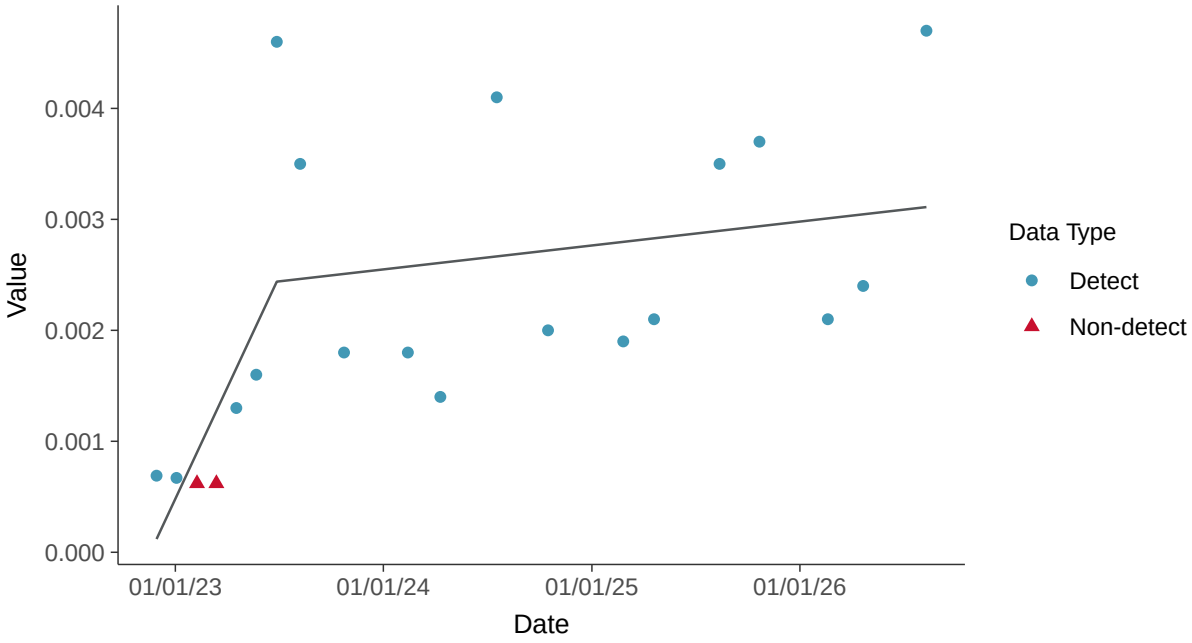
Trend Regression: Lognormal MLE

Vanadium, MW-01R (mg/L)



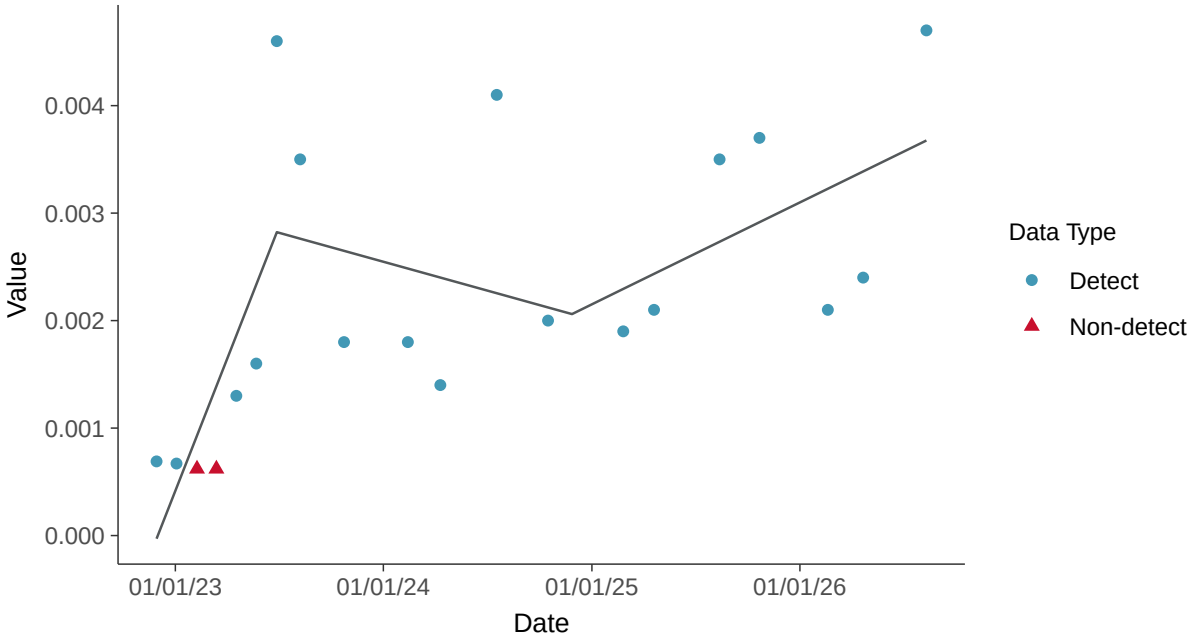
Trend Regression: Piecewise Linear-Linear

Vanadium, MW-01R (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Vanadium, MW-01R (mg/L)

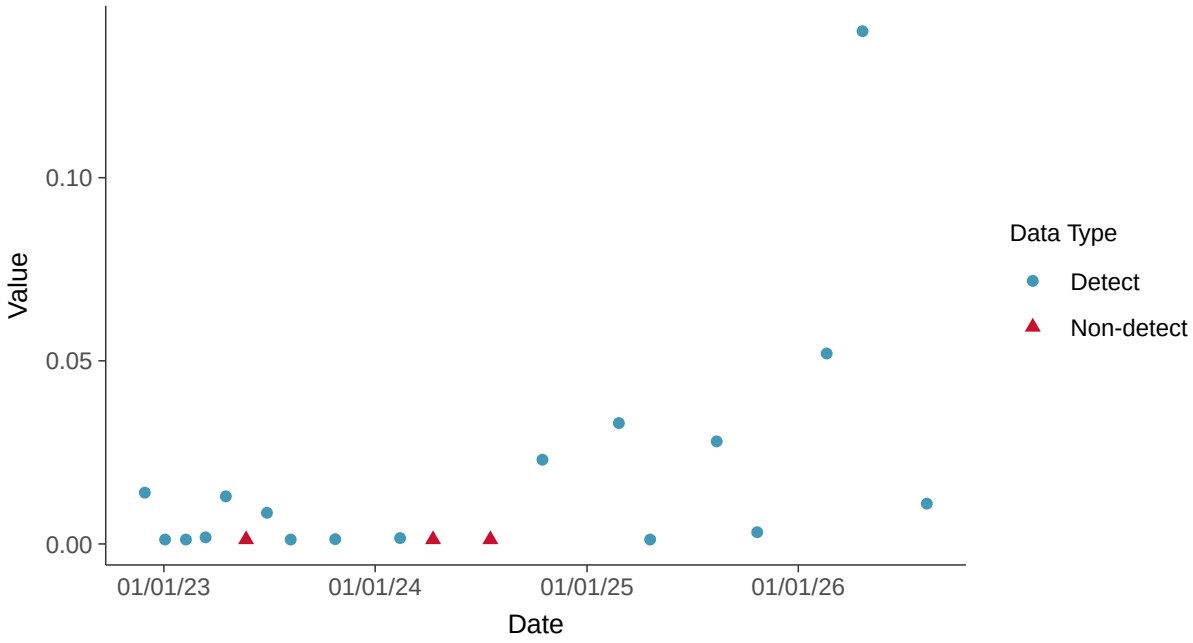


Part 115: Zinc, MW-01R

ID: 11_2_5_129

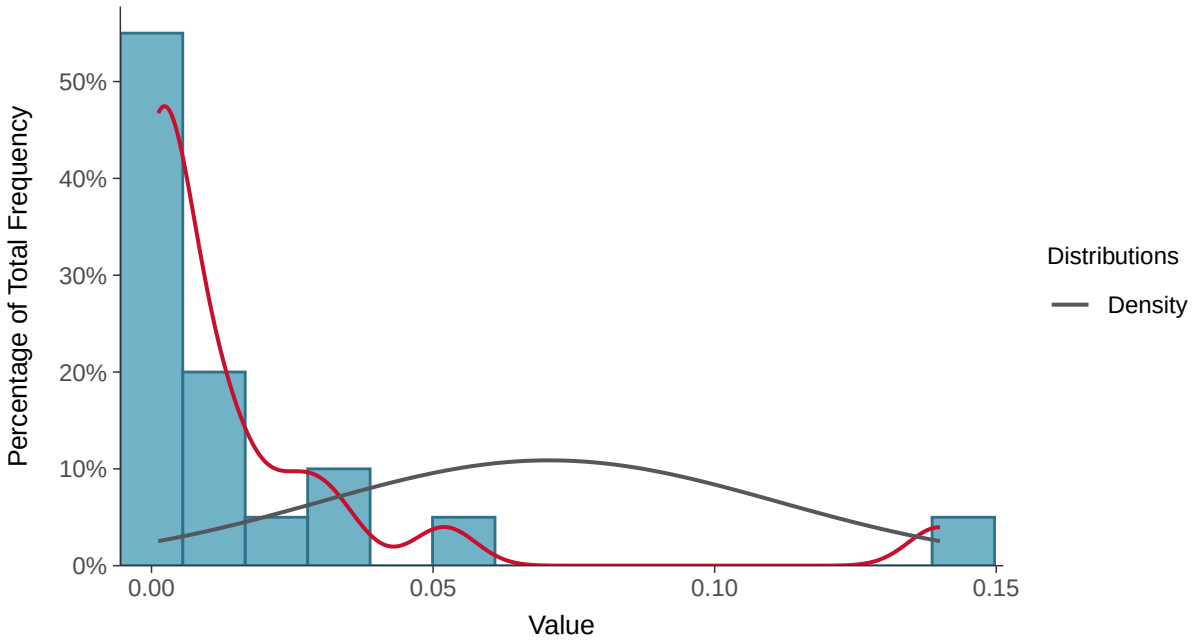
Scatter Plot

Zinc, MW-01R (mg/L)



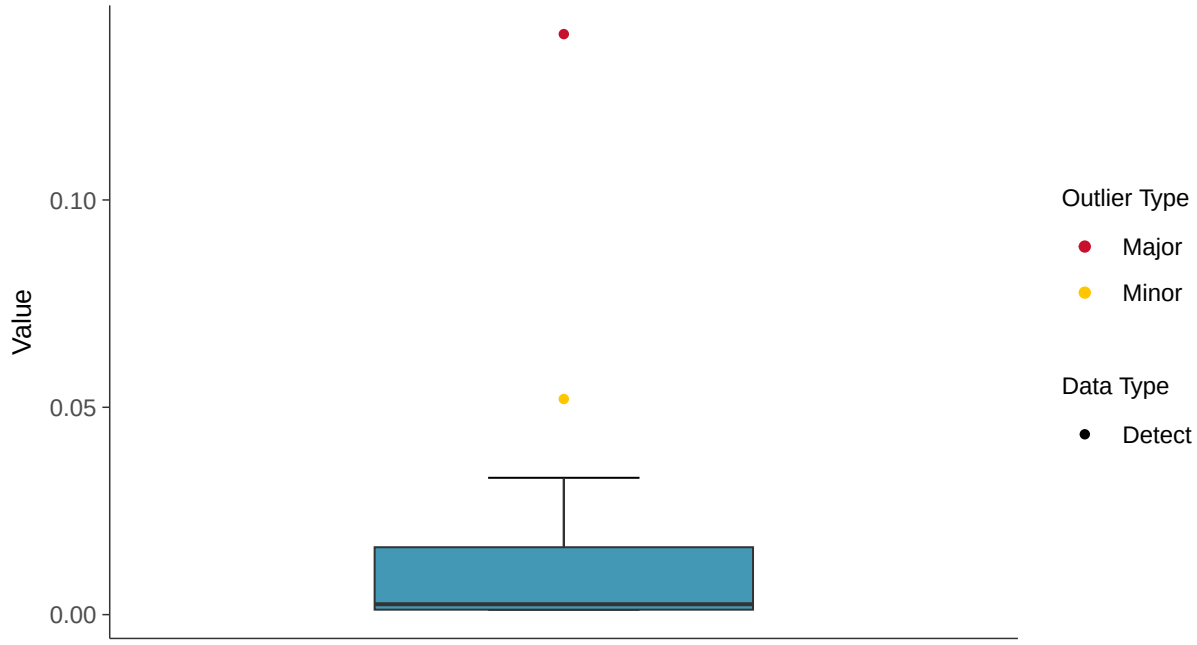
Histogram

Zinc, MW-01R (mg/L)



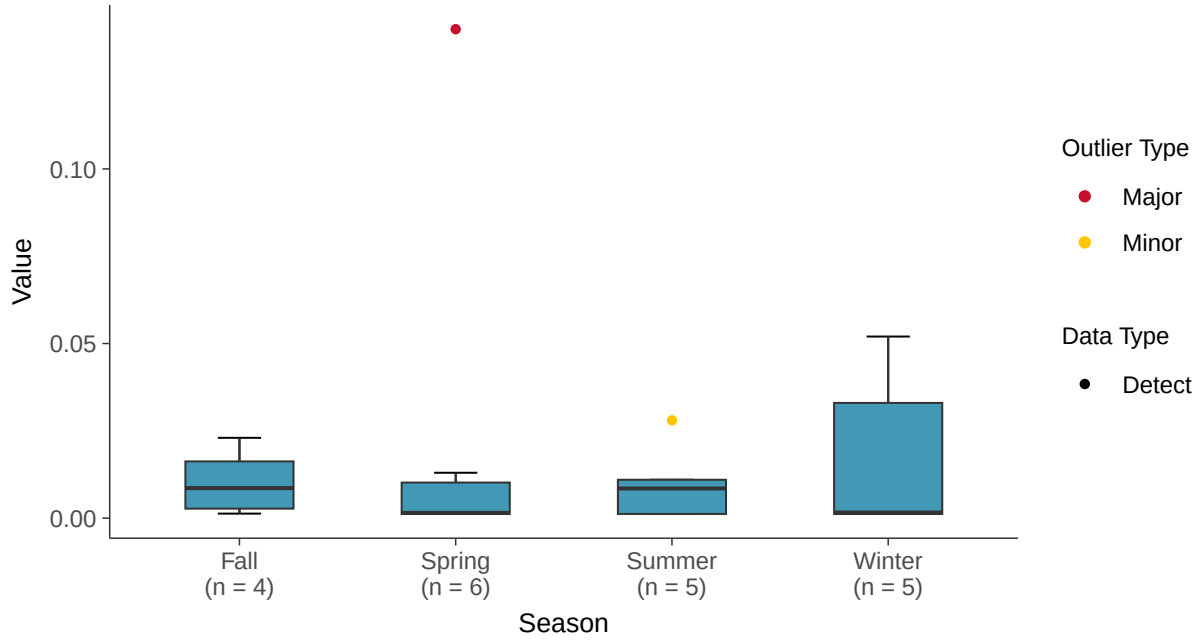
Boxplot

Zinc, MW-01R (mg/L)



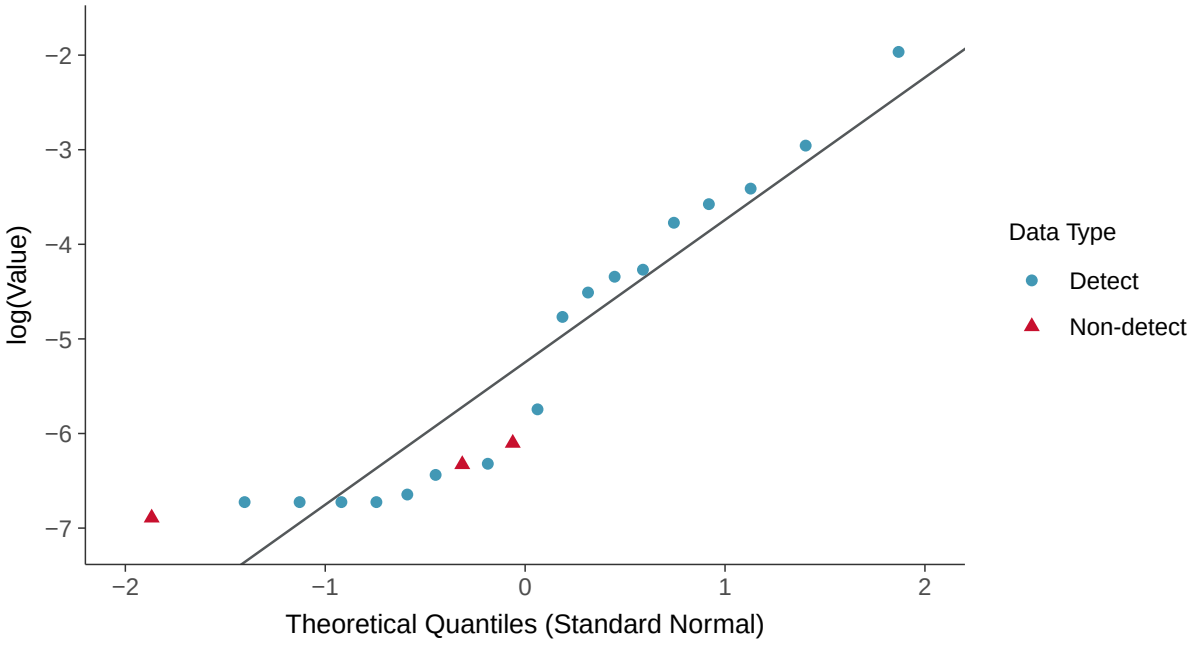
Boxplot by Season

Zinc, MW-01R (mg/L)



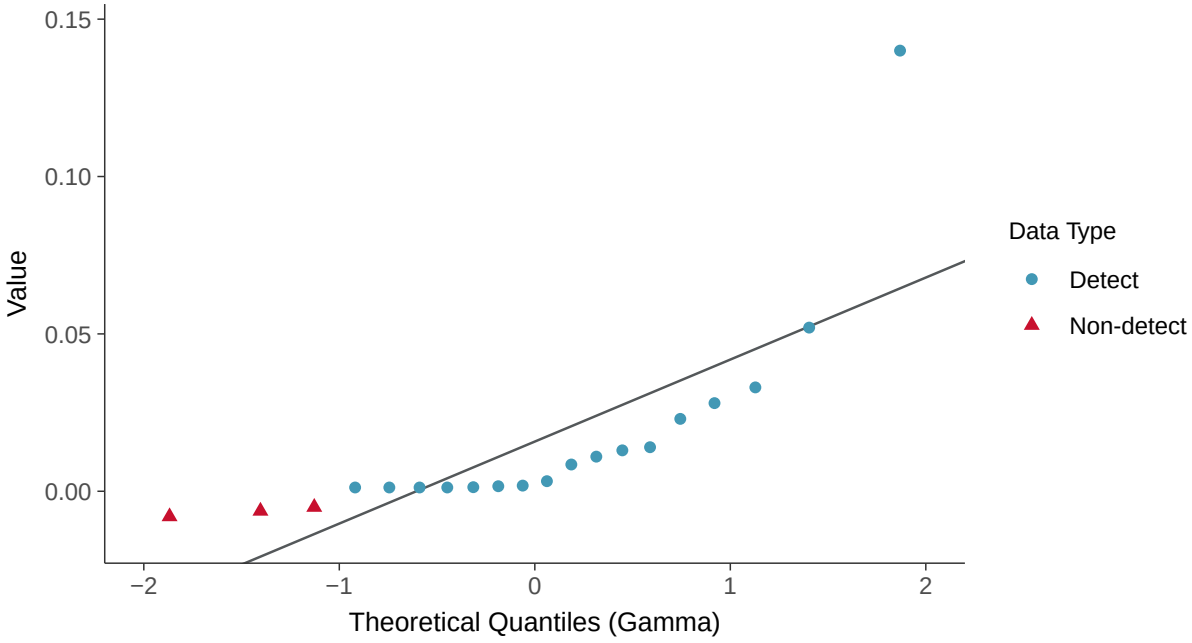
Lognormal Q-Q plot using ROS Imputed Estimates

Zinc, MW-01R (mg/L)



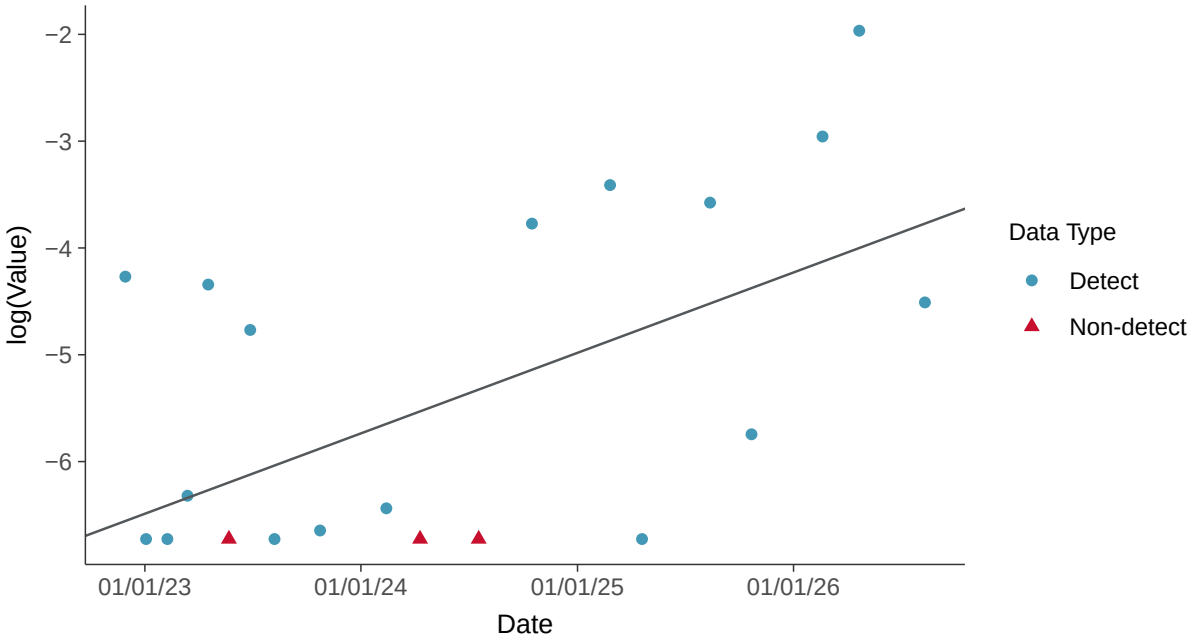
Gamma Q-Q plot using ROS Imputed Estimates

Zinc, MW-01R (mg/L)



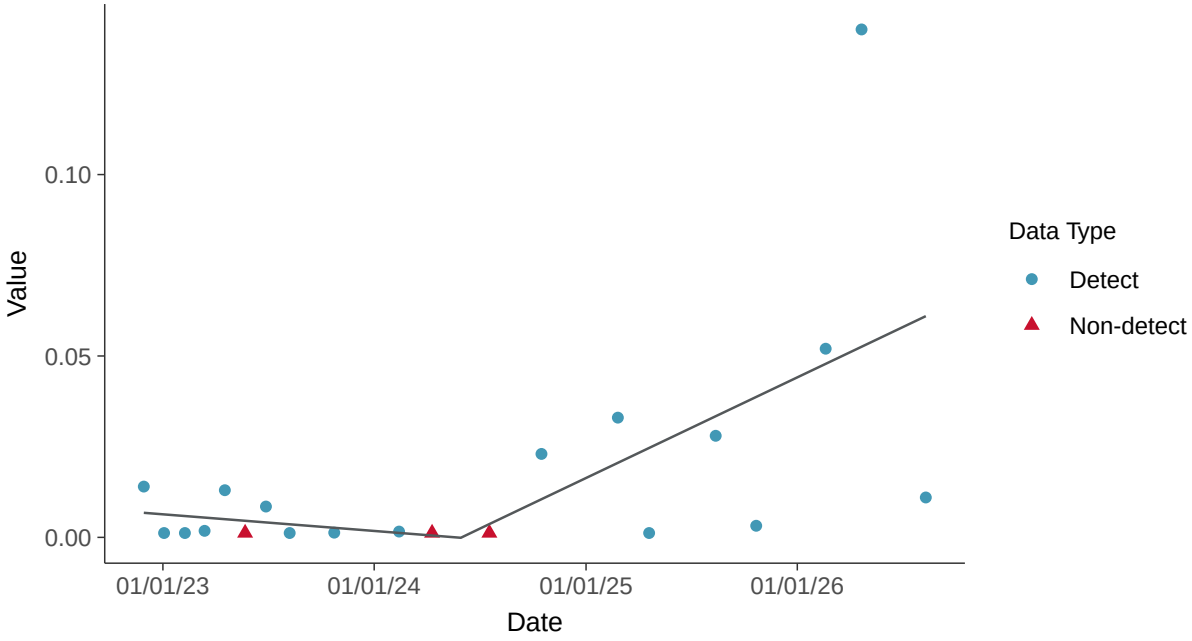
Trend Regression: Lognormal MLE

Zinc, MW-01R (mg/L)



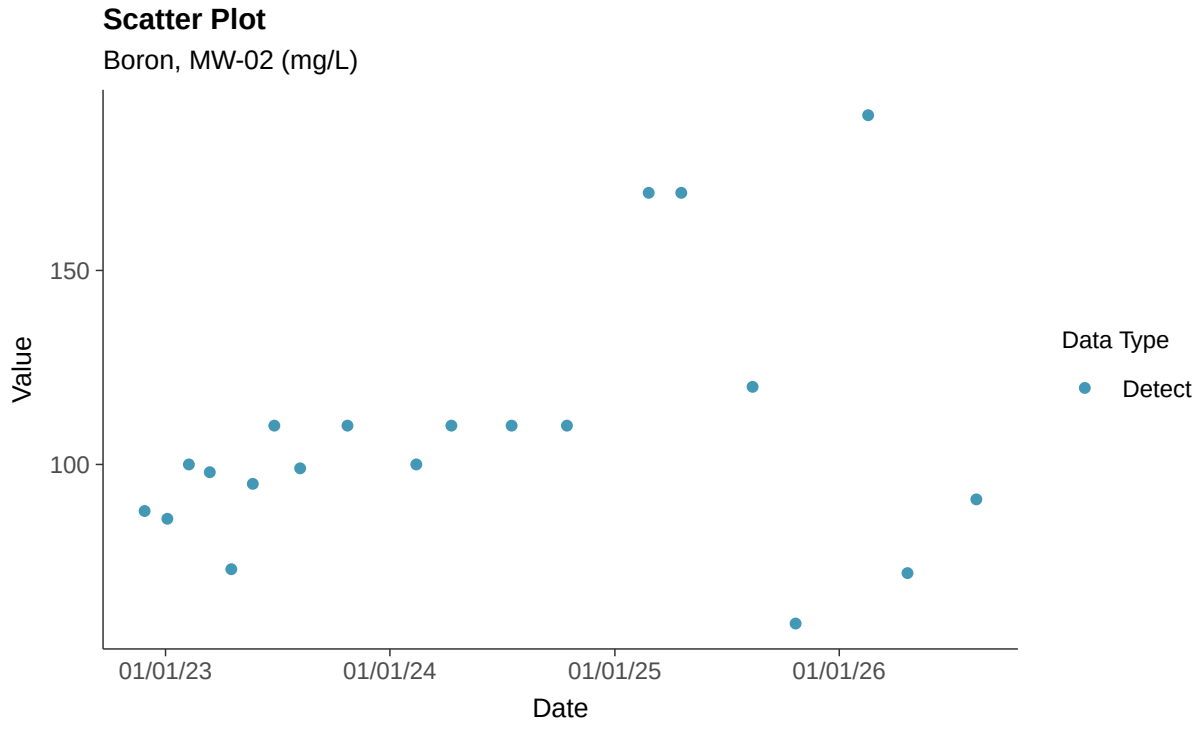
Trend Regression: Piecewise Linear-Linear

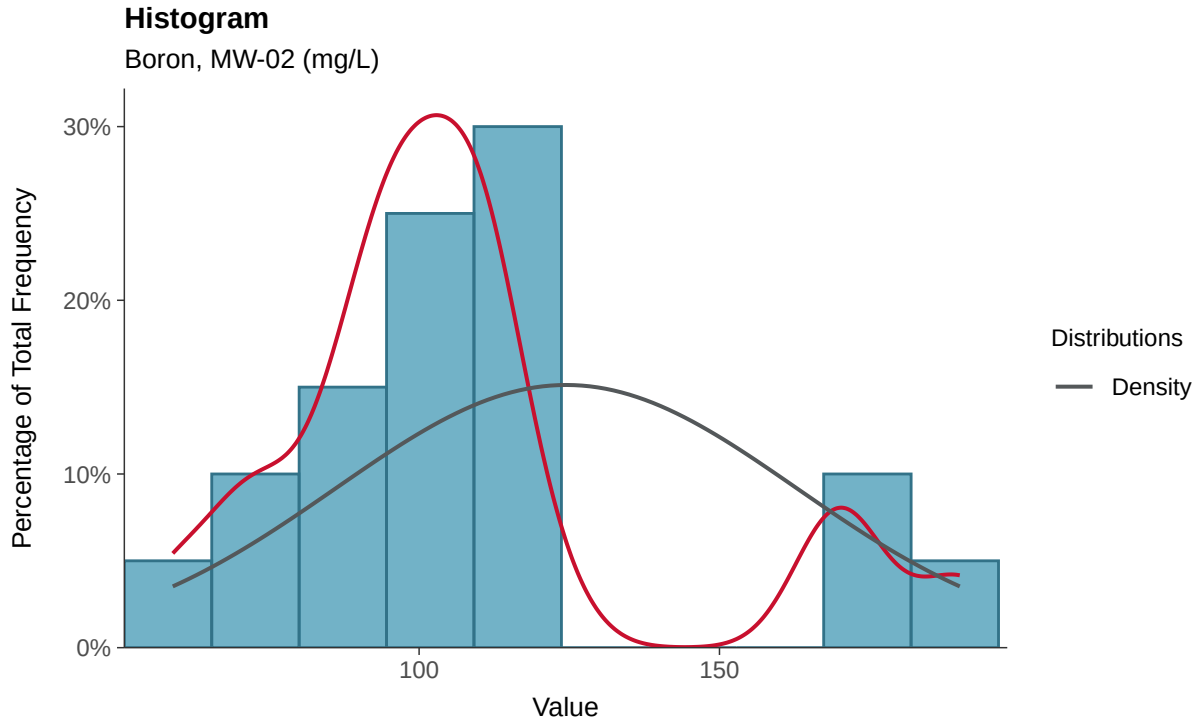
Zinc, MW-01R (mg/L)



Appendix III: Boron, MW-02

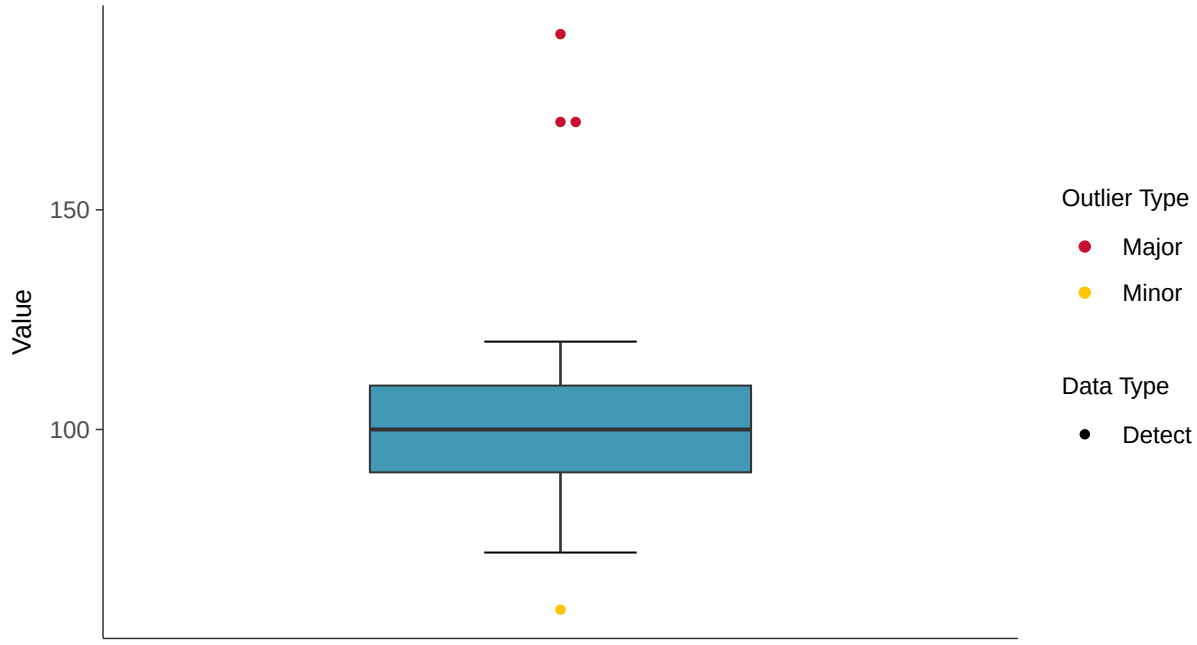
ID: 12_2_3_105





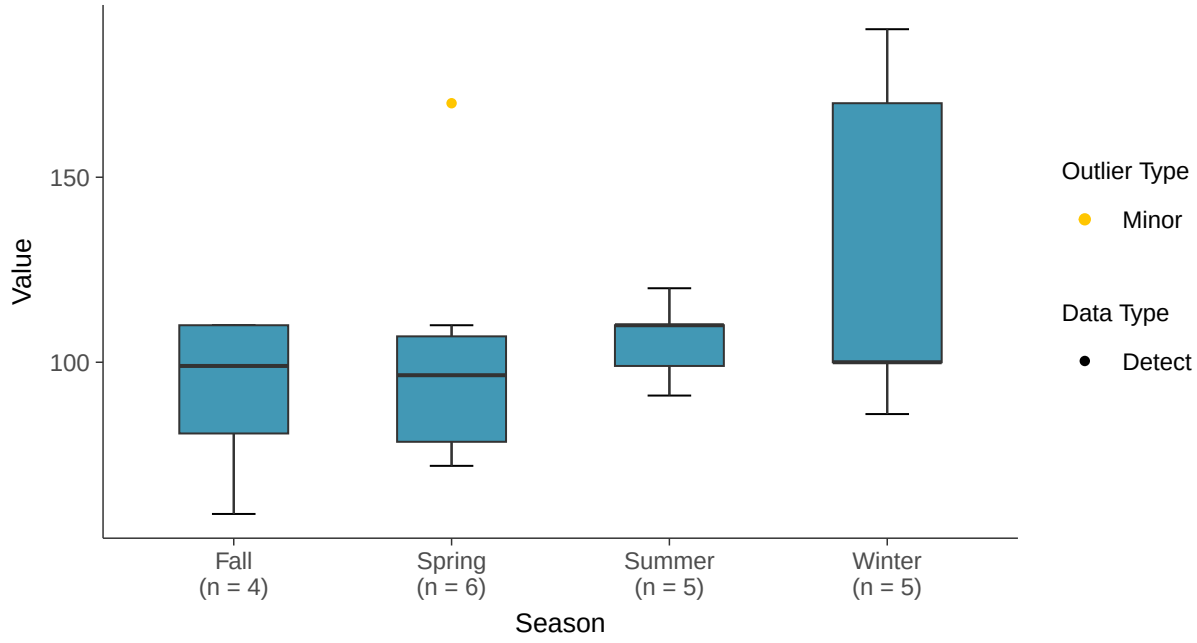
Boxplot

Boron, MW-02 (mg/L)



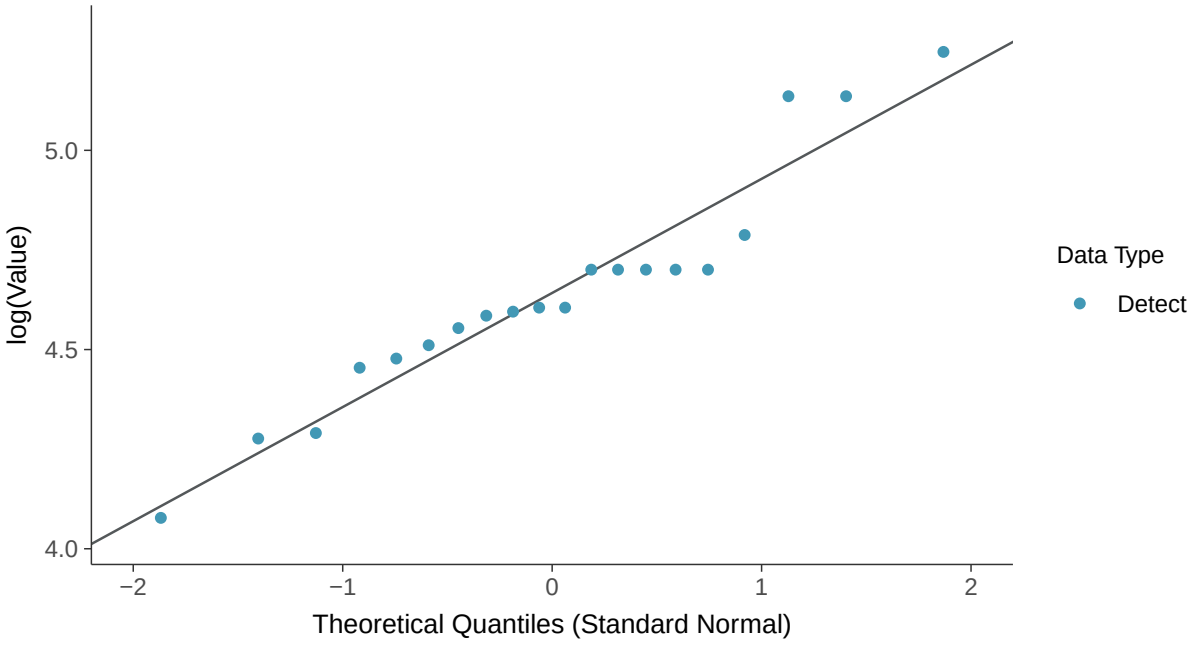
Boxplot by Season

Boron, MW-02 (mg/L)



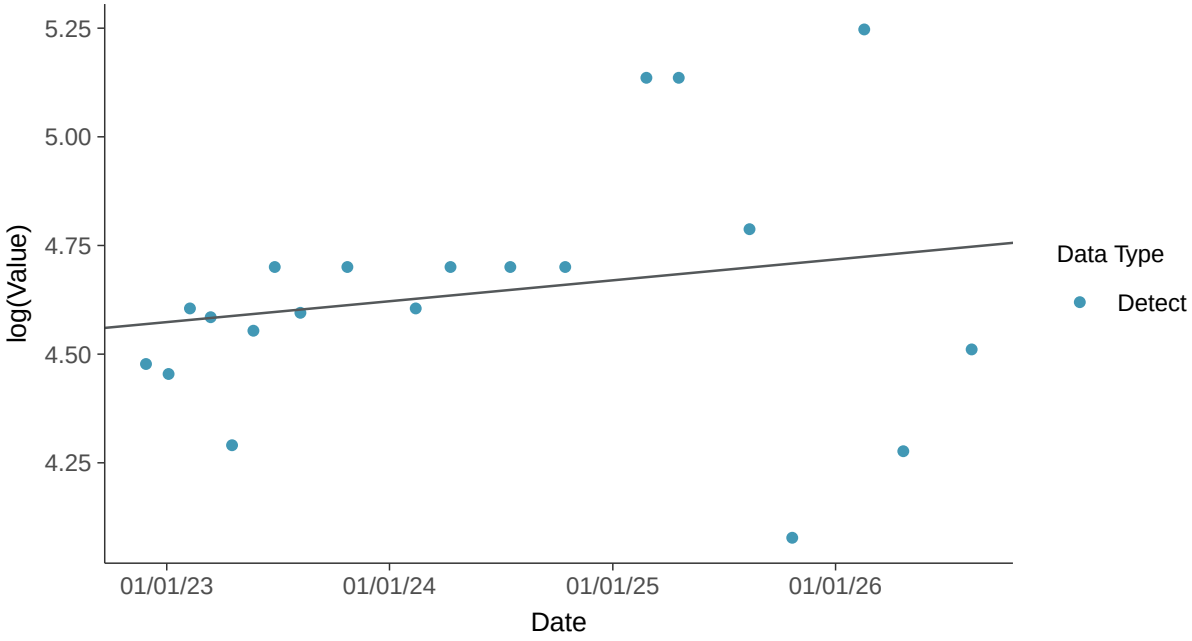
Lognormal Q-Q plot

Boron, MW-02 (mg/L)



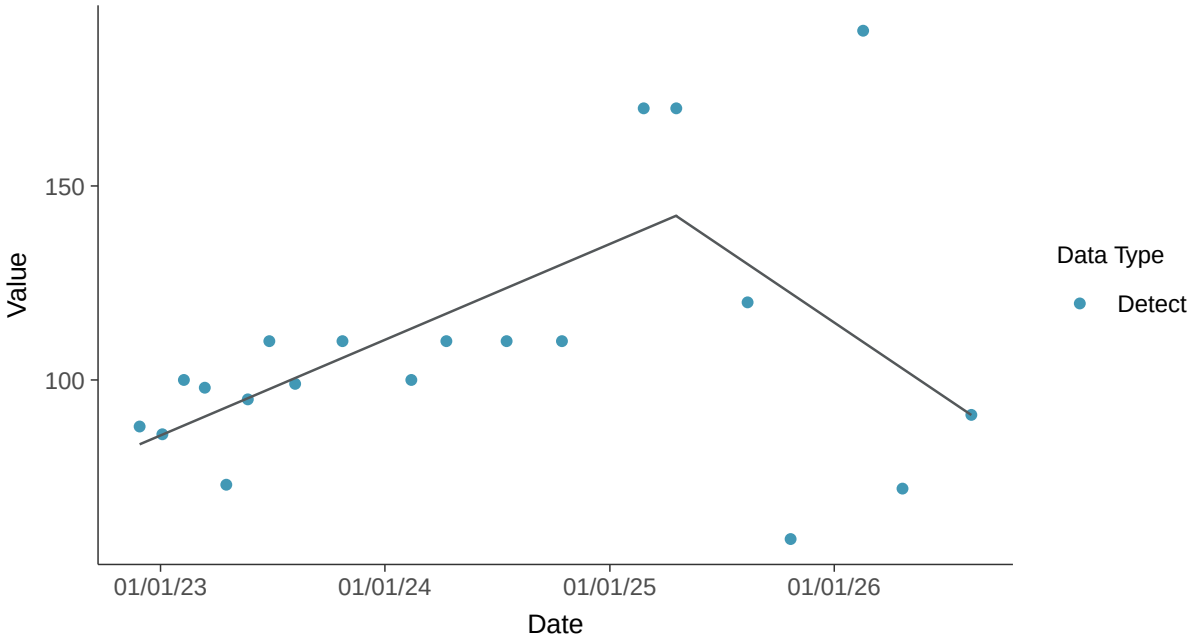
Trend Regression: Lognormal MLE

Boron, MW-02 (mg/L)



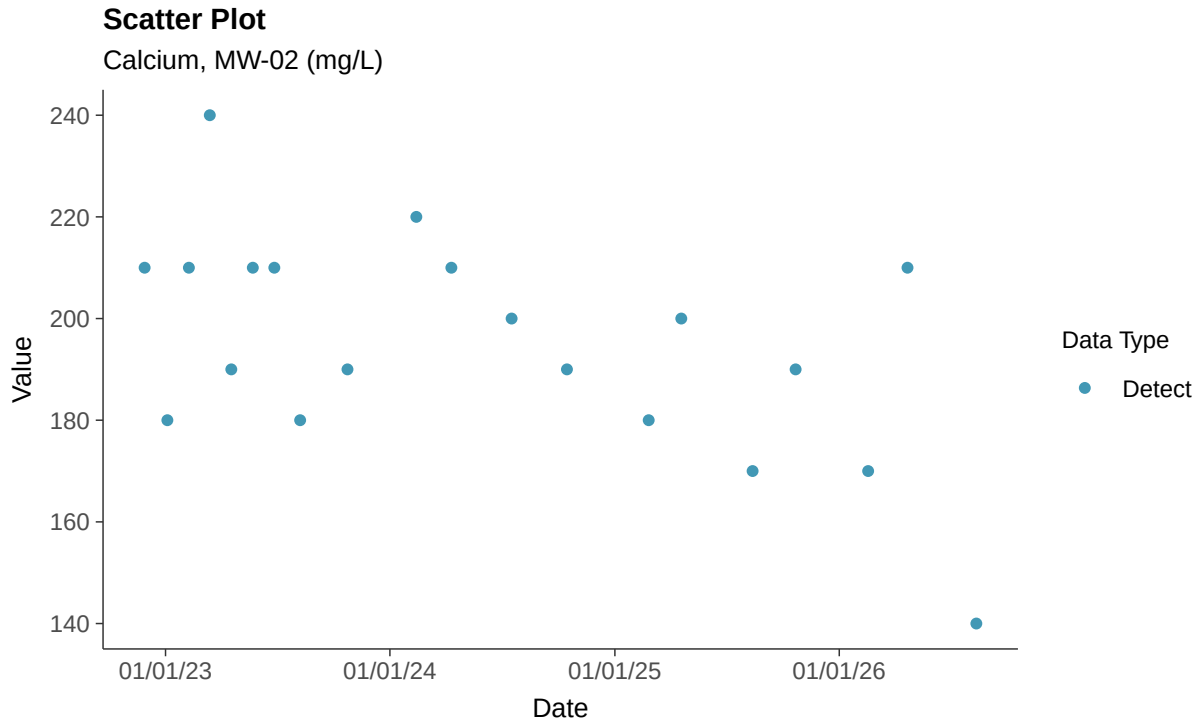
Trend Regression: Piecewise Linear-Linear

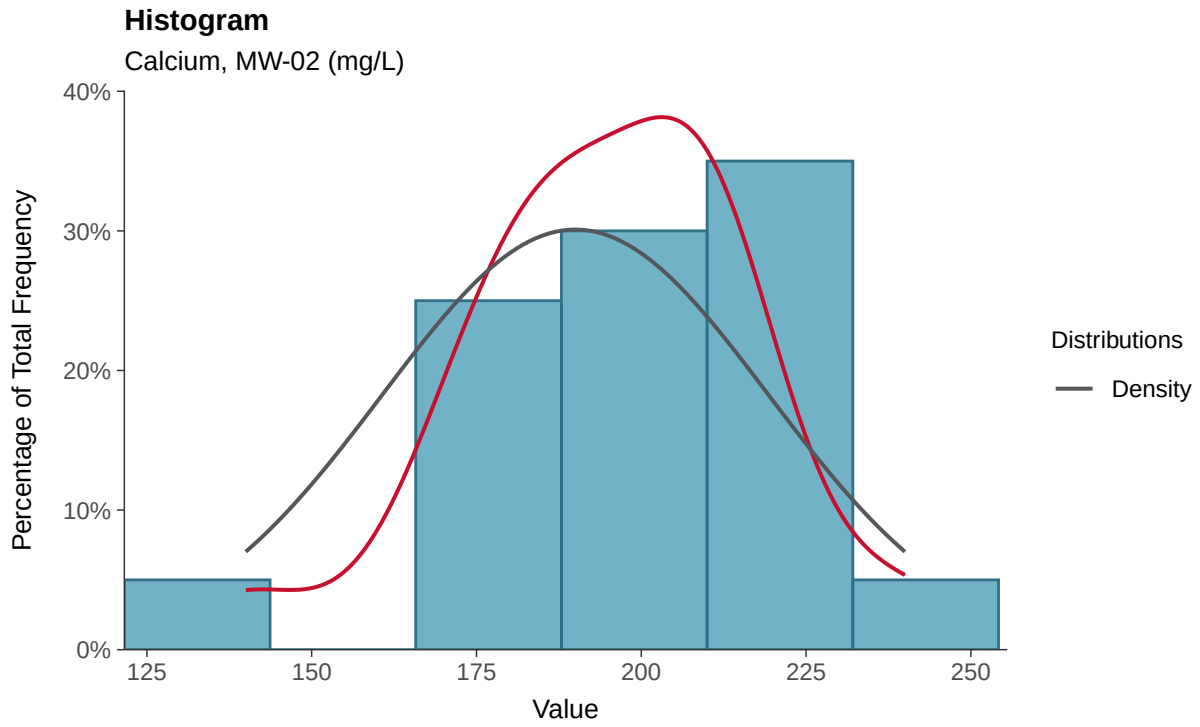
Boron, MW-02 (mg/L)



Appendix III: Calcium, MW-02

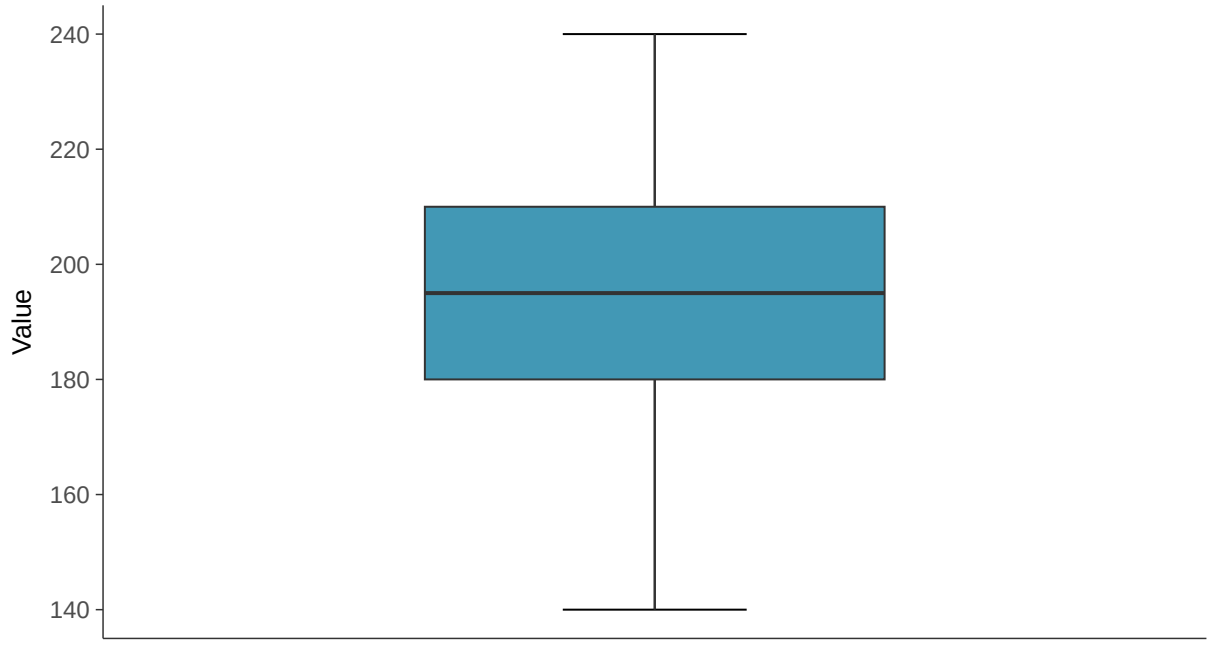
ID: 12_2_3_107





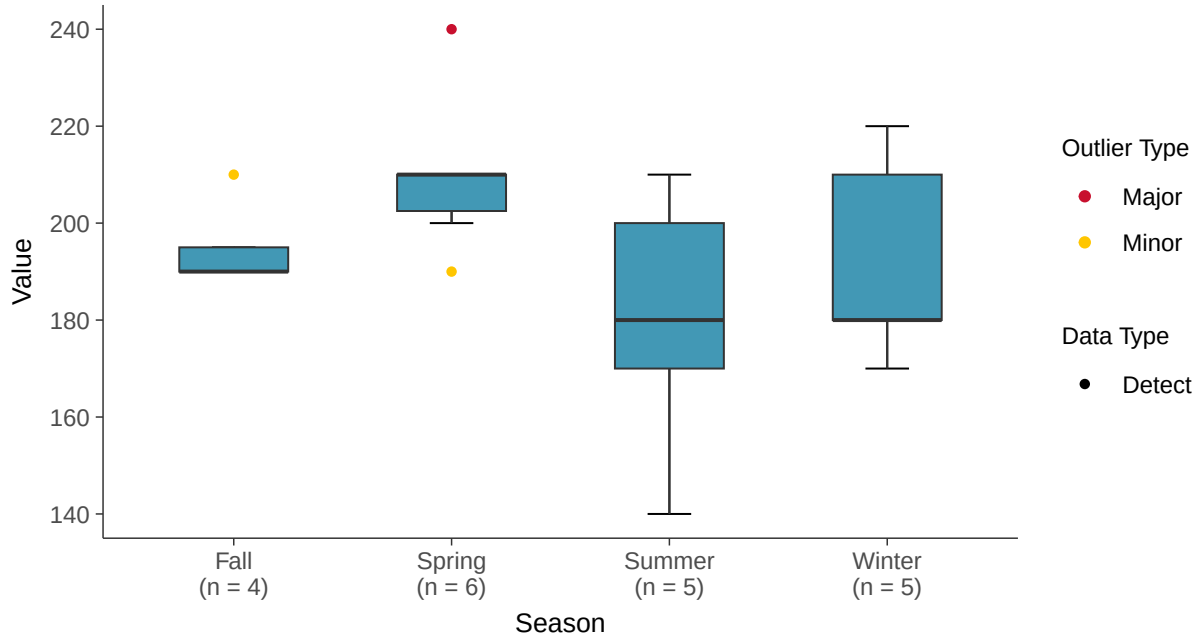
Boxplot

Calcium, MW-02 (mg/L)



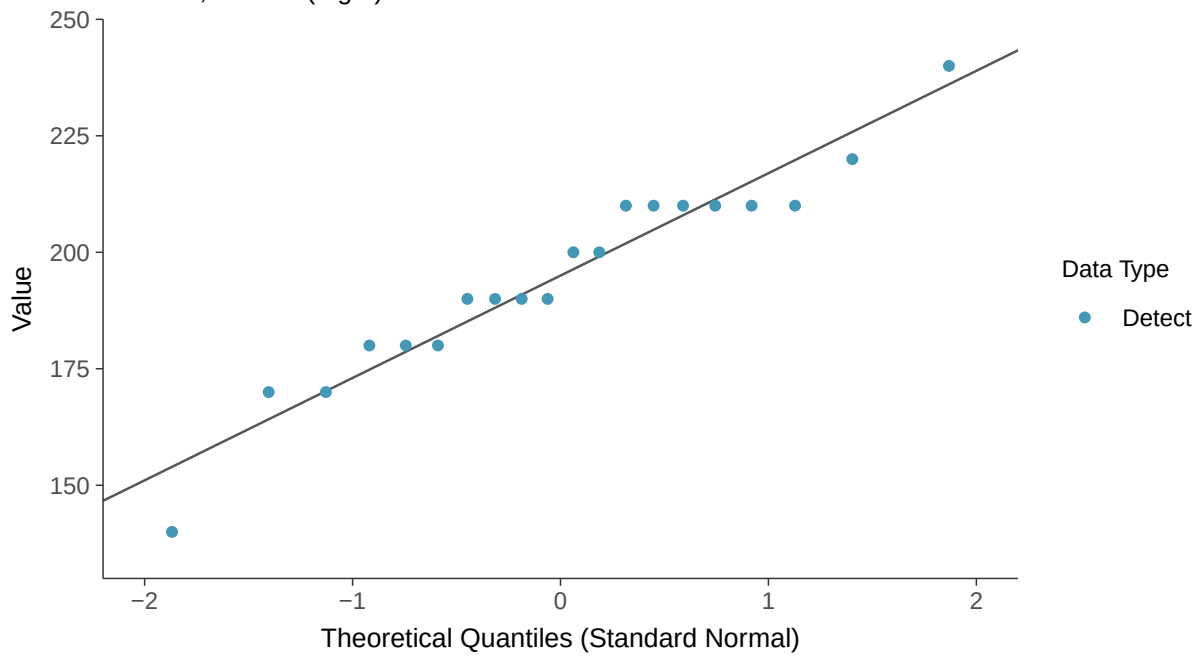
Boxplot by Season

Calcium, MW-02 (mg/L)



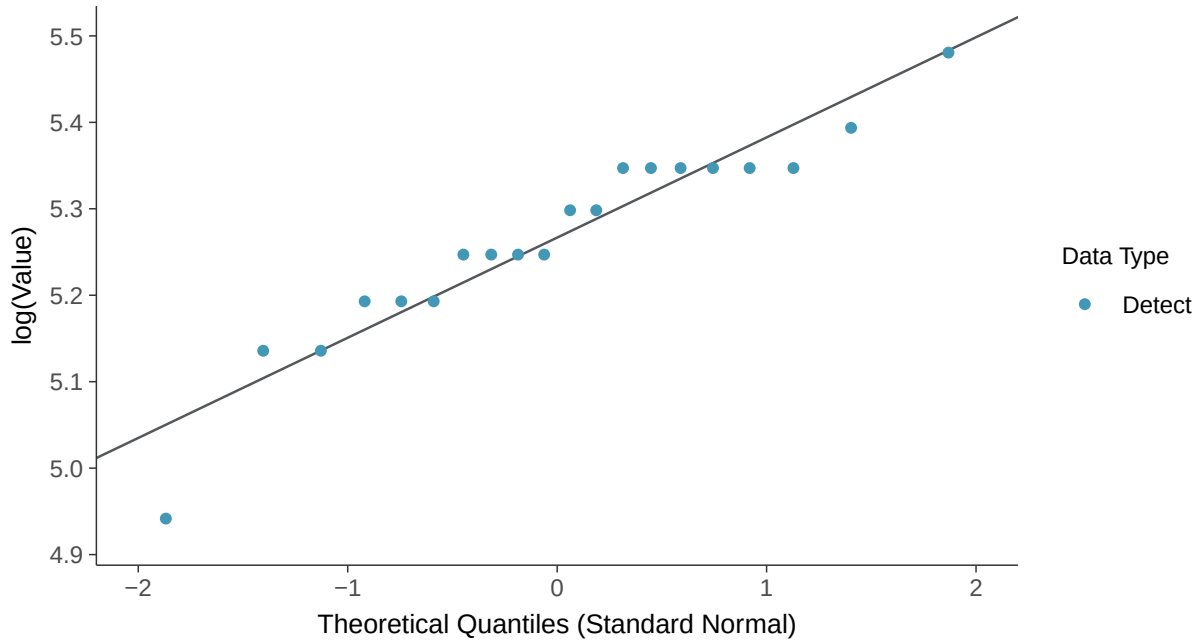
Normal Q-Q plot

Calcium, MW-02 (mg/L)



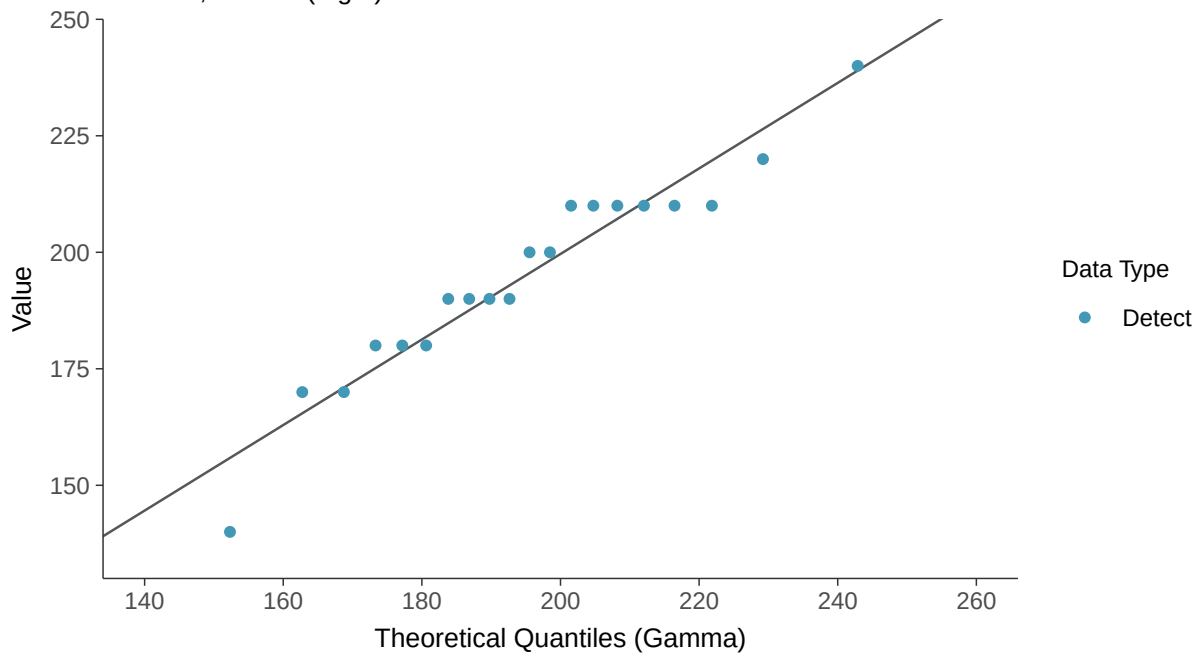
Lognormal Q-Q plot

Calcium, MW-02 (mg/L)



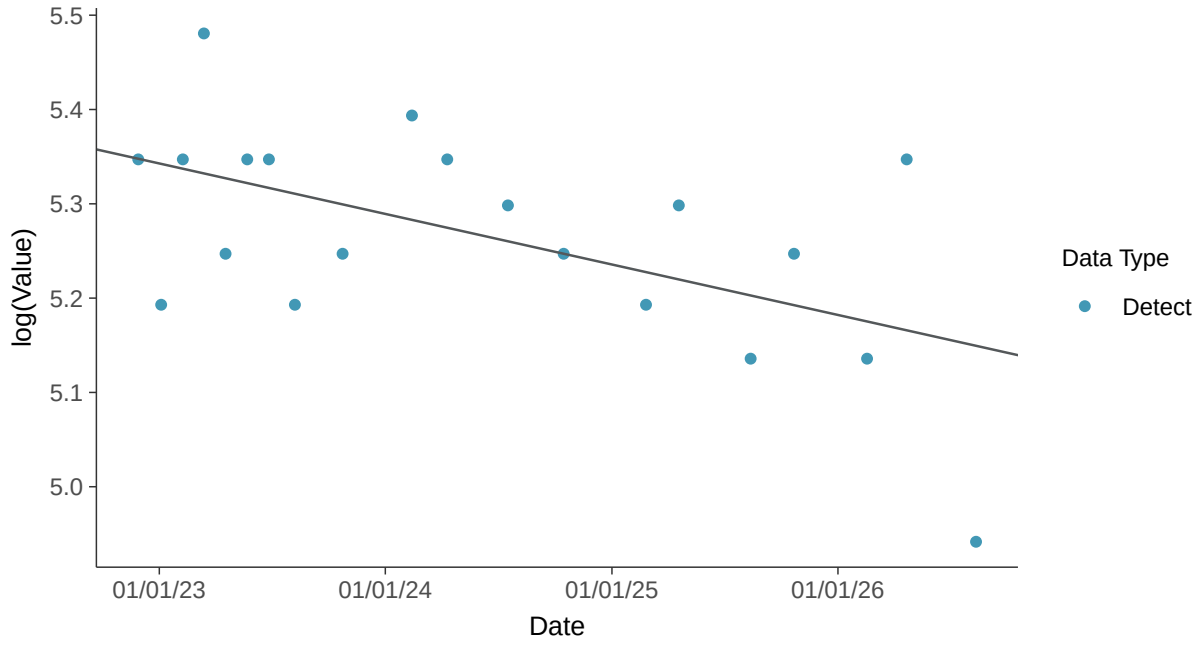
Gamma Q-Q plot

Calcium, MW-02 (mg/L)



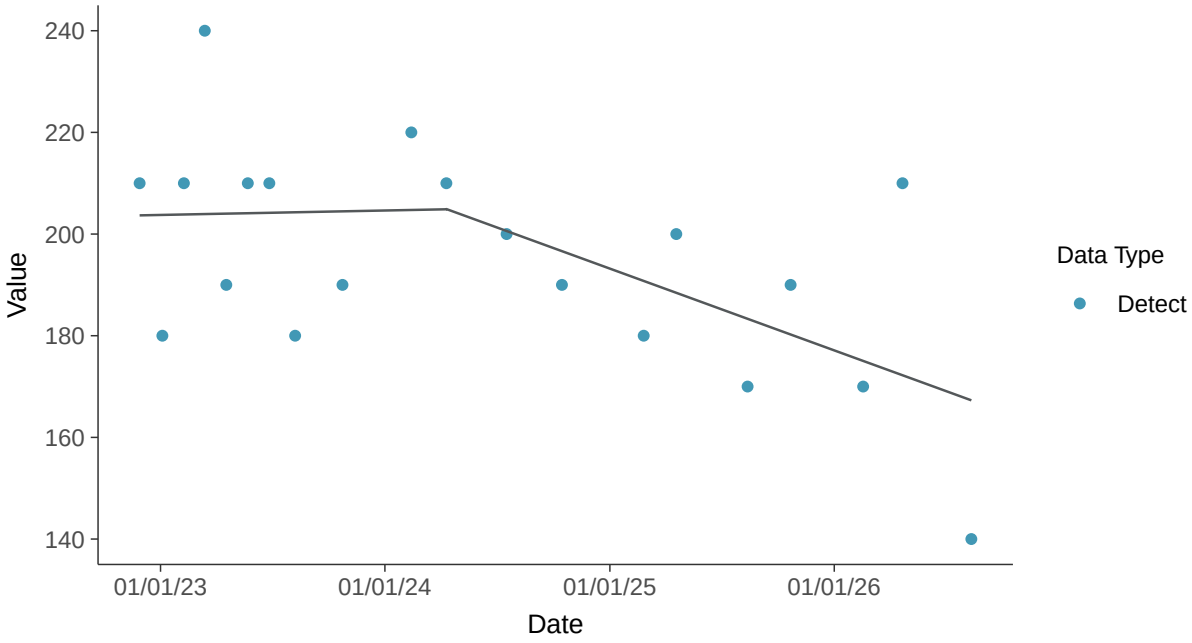
Trend Regression: Lognormal MLE

Calcium, MW-02 (mg/L)



Trend Regression: Piecewise Linear-Linear

Calcium, MW-02 (mg/L)

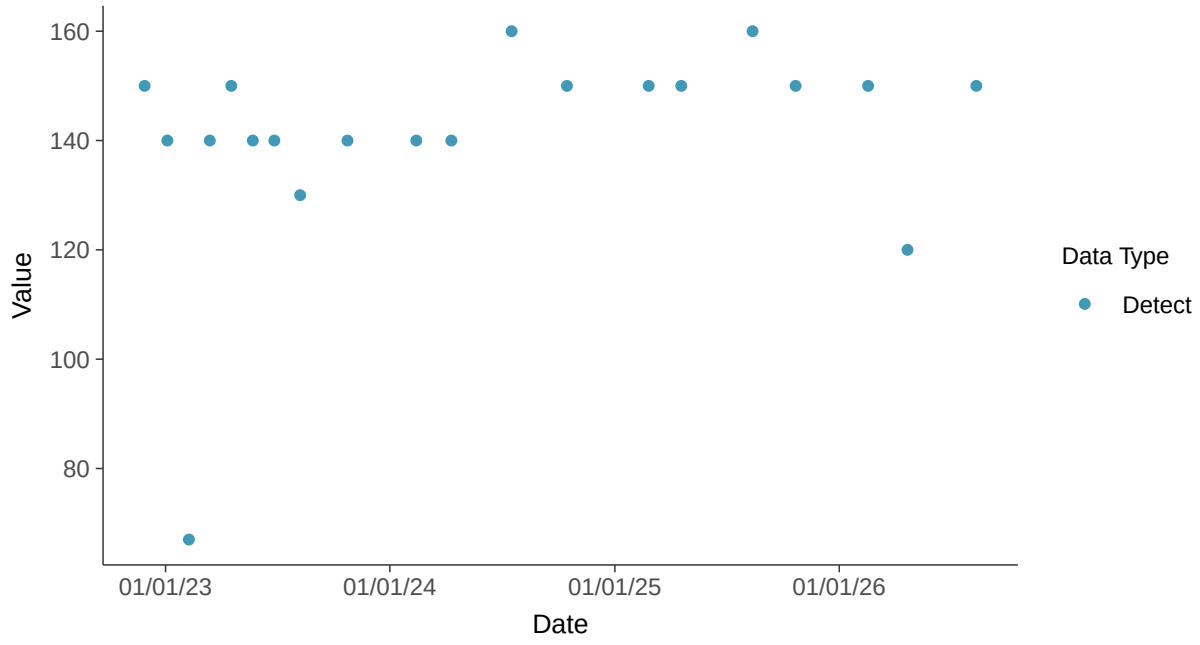


Appendix III: Chloride (as Cl), MW-02

ID: 12_2_3_108

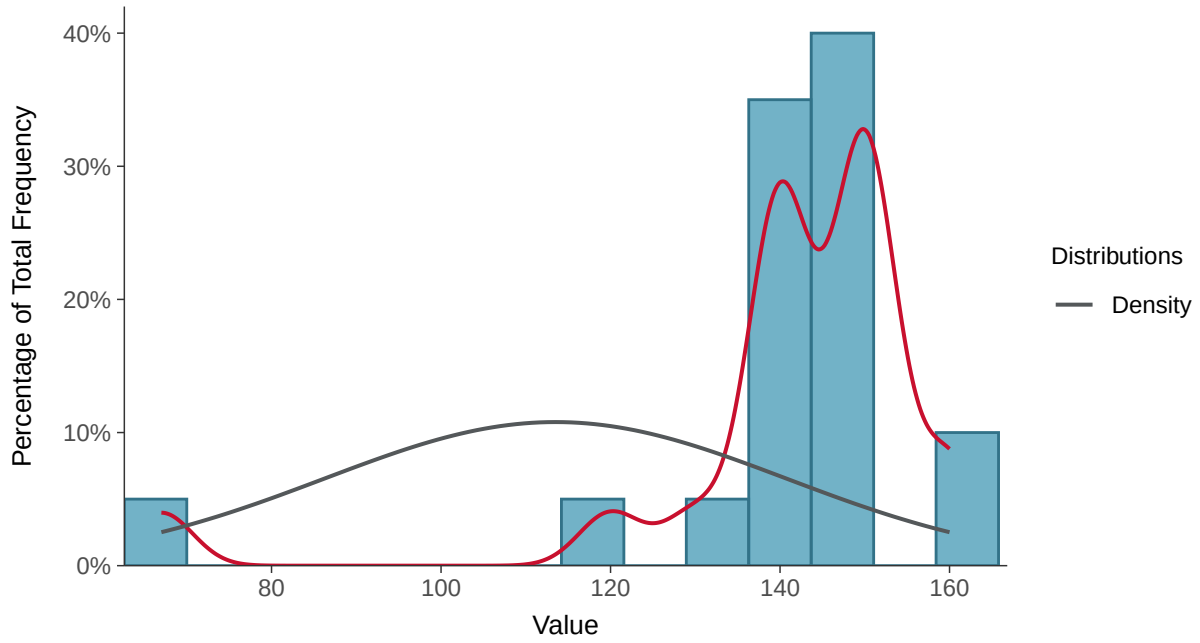
Scatter Plot

Chloride (as Cl), MW-02 (mg/L)



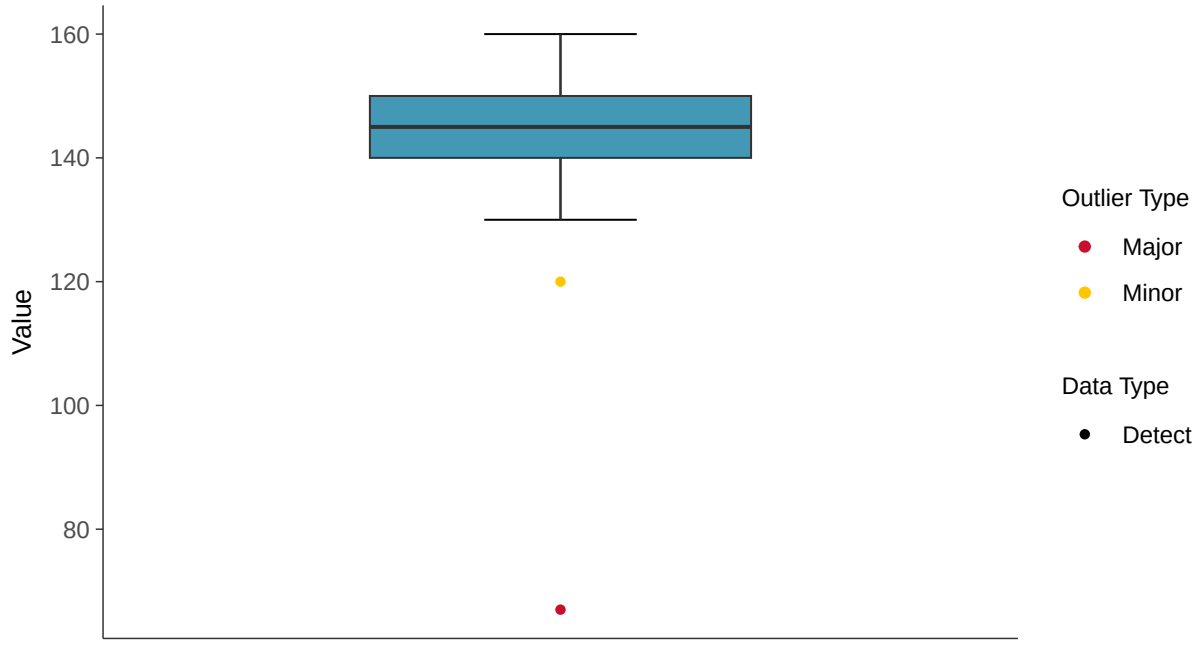
Histogram

Chloride (as Cl), MW-02 (mg/L)



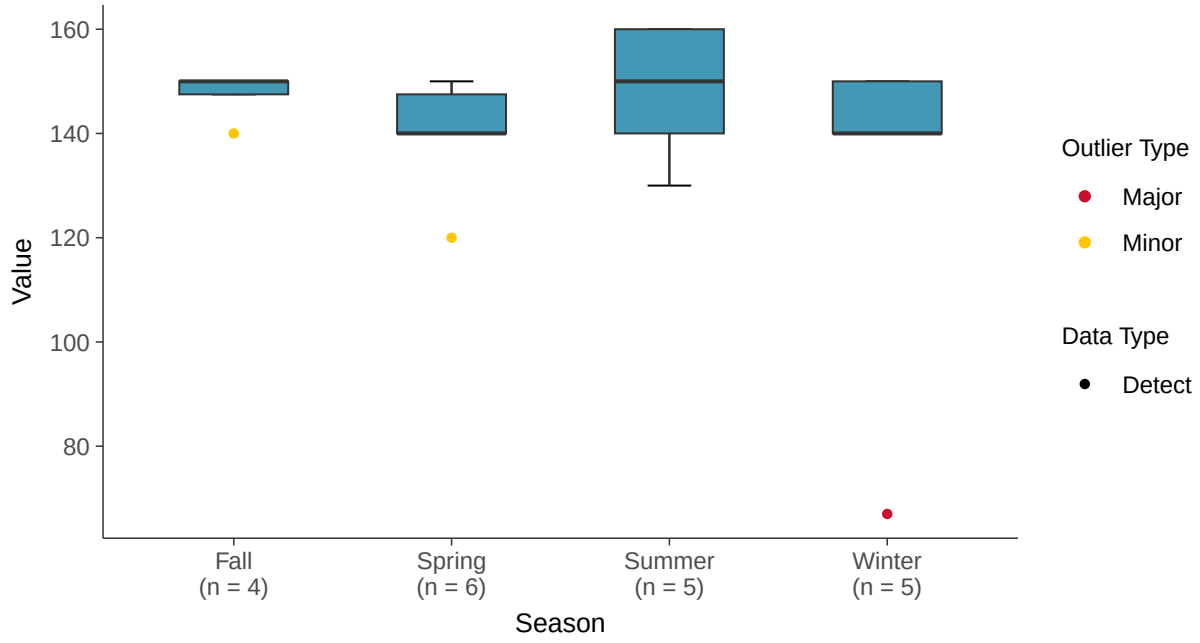
Boxplot

Chloride (as Cl), MW-02 (mg/L)



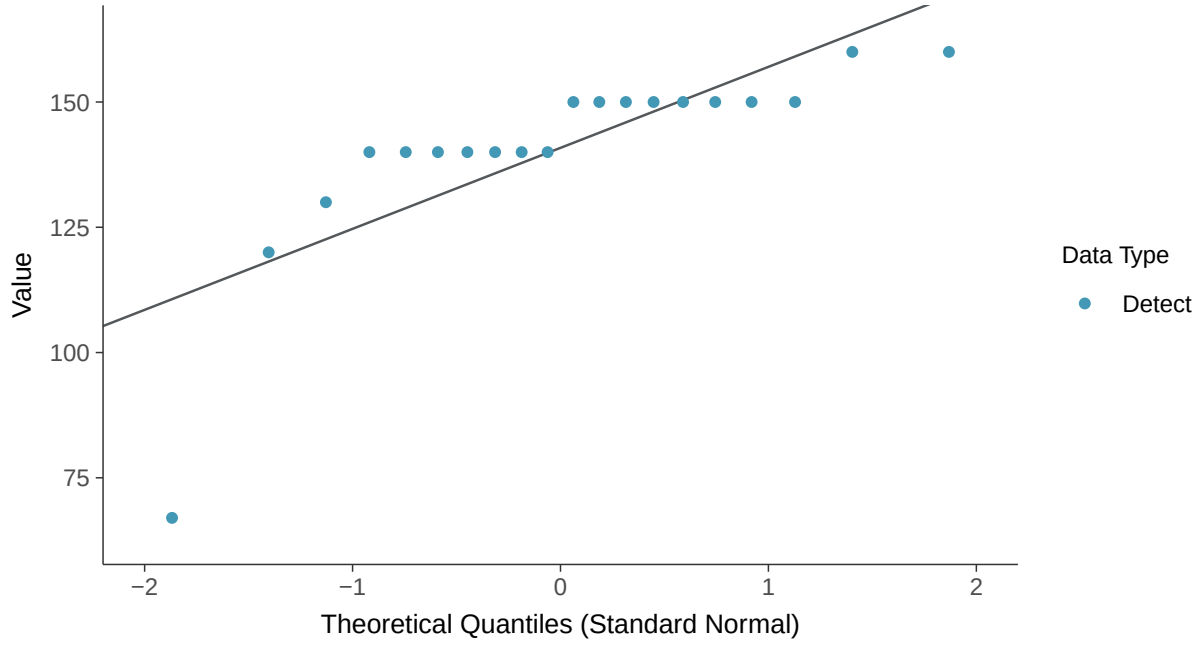
Boxplot by Season

Chloride (as Cl), MW-02 (mg/L)



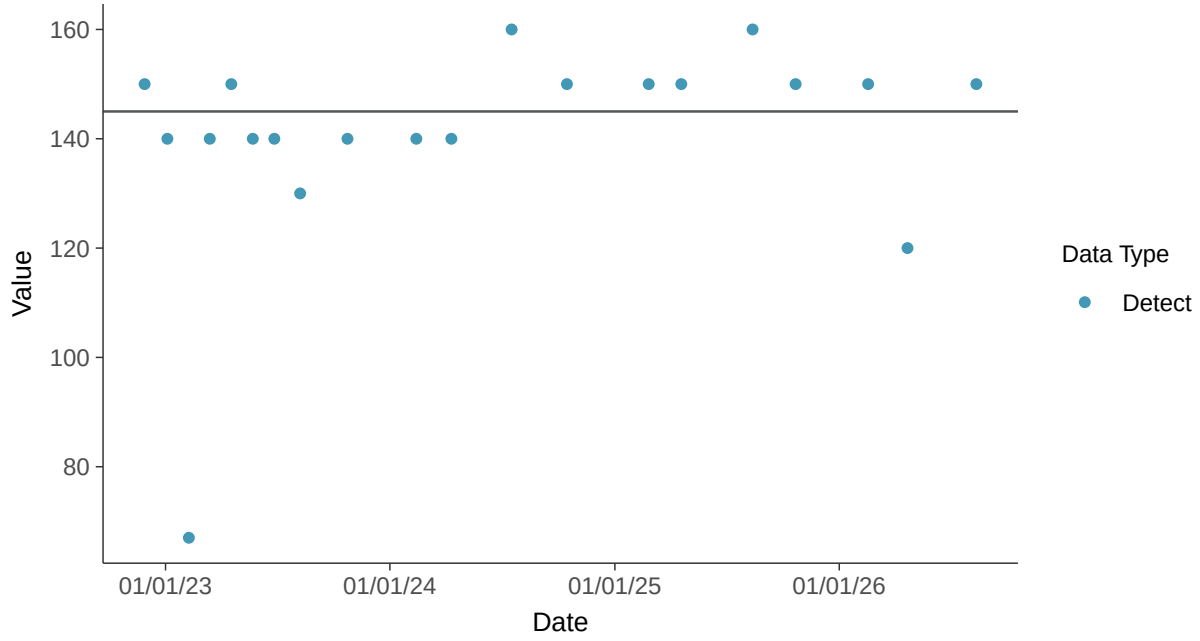
Normal Q-Q plot

Chloride (as Cl), MW-02 (mg/L)



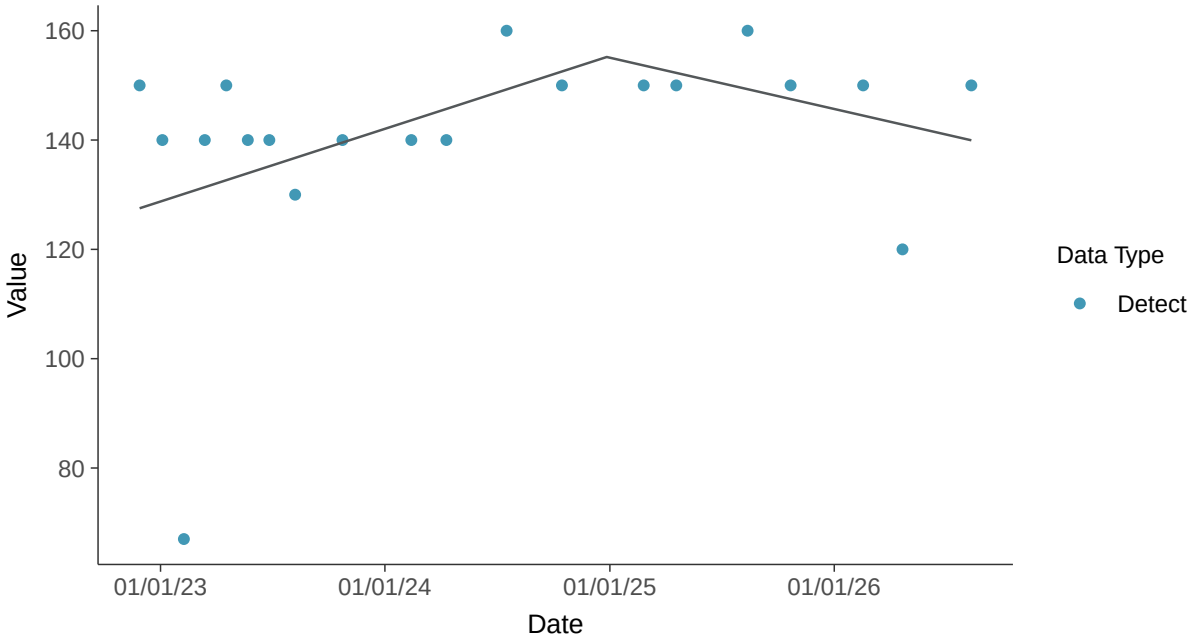
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Chloride (as Cl), MW-02 (mg/L)



Trend Regression: Piecewise Linear-Linear

Chloride (as Cl), MW-02 (mg/L)

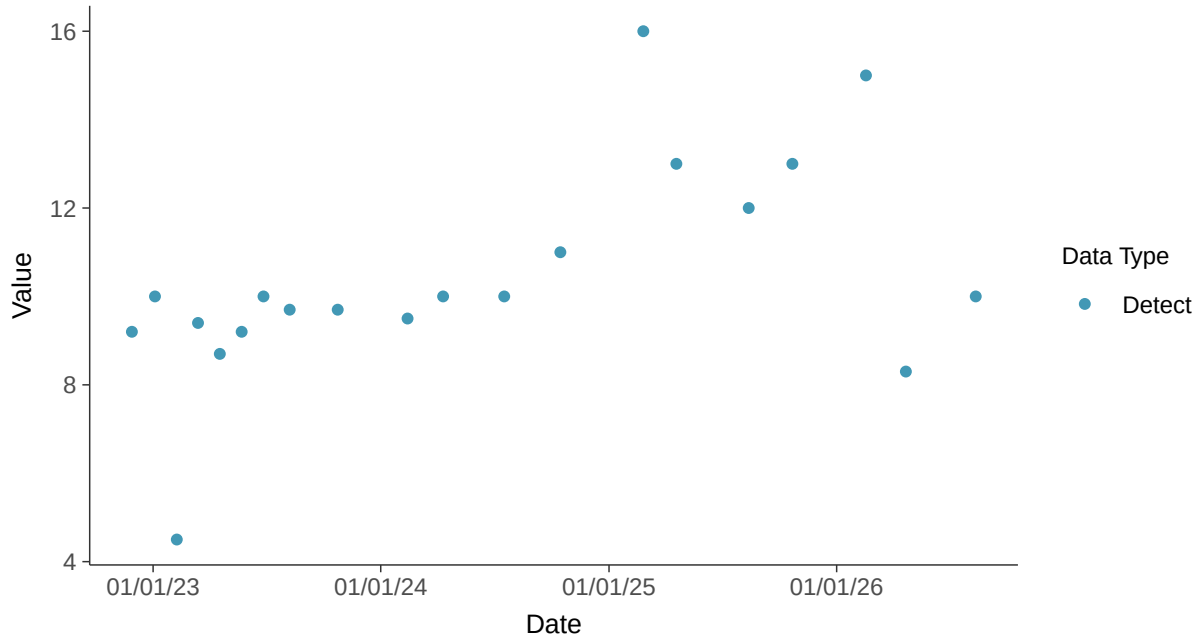


Appendix III: Fluoride, MW-02

ID: 12_2_3_112

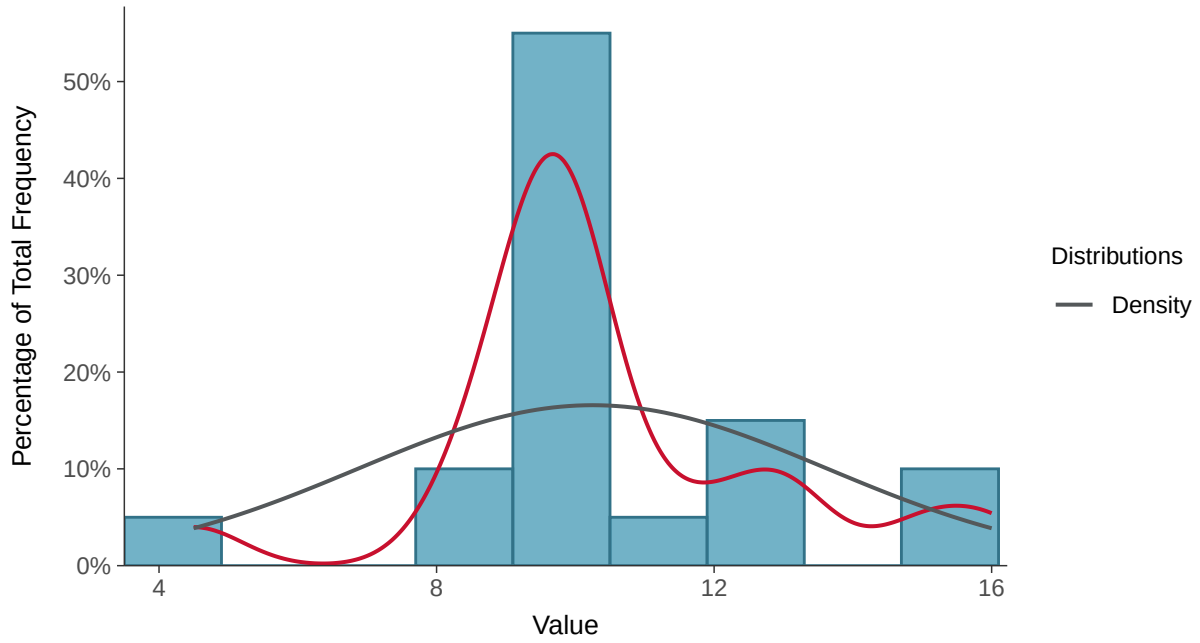
Scatter Plot

Fluoride, MW-02 (mg/L)



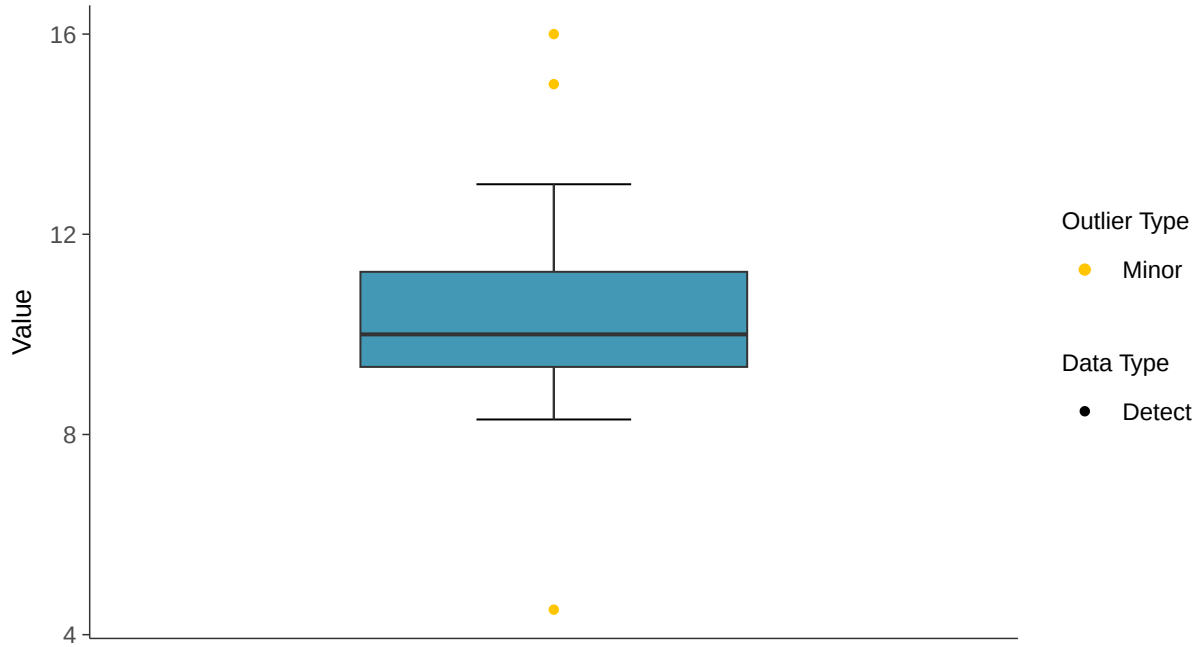
Histogram

Fluoride, MW-02 (mg/L)



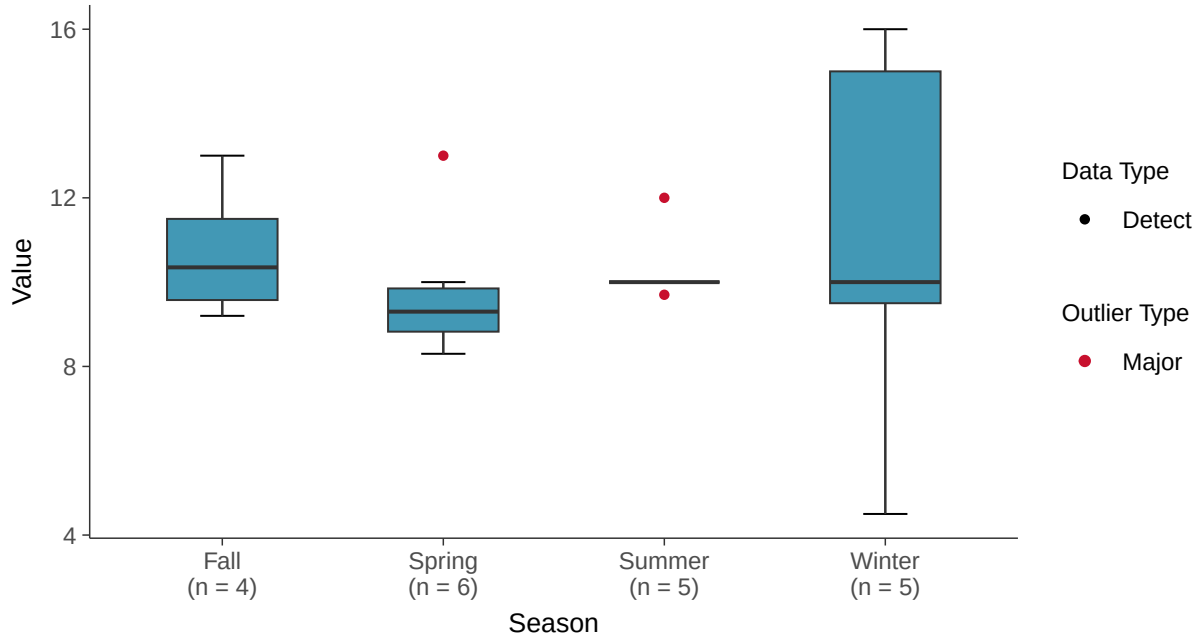
Boxplot

Fluoride, MW-02 (mg/L)



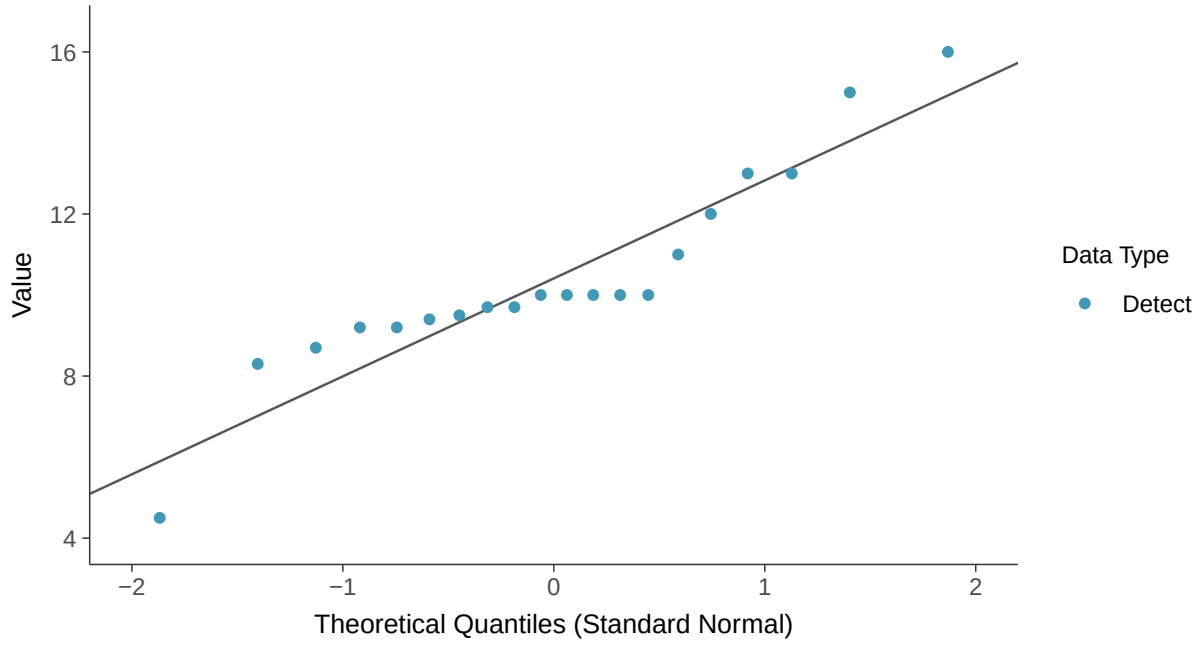
Boxplot by Season

Fluoride, MW-02 (mg/L)



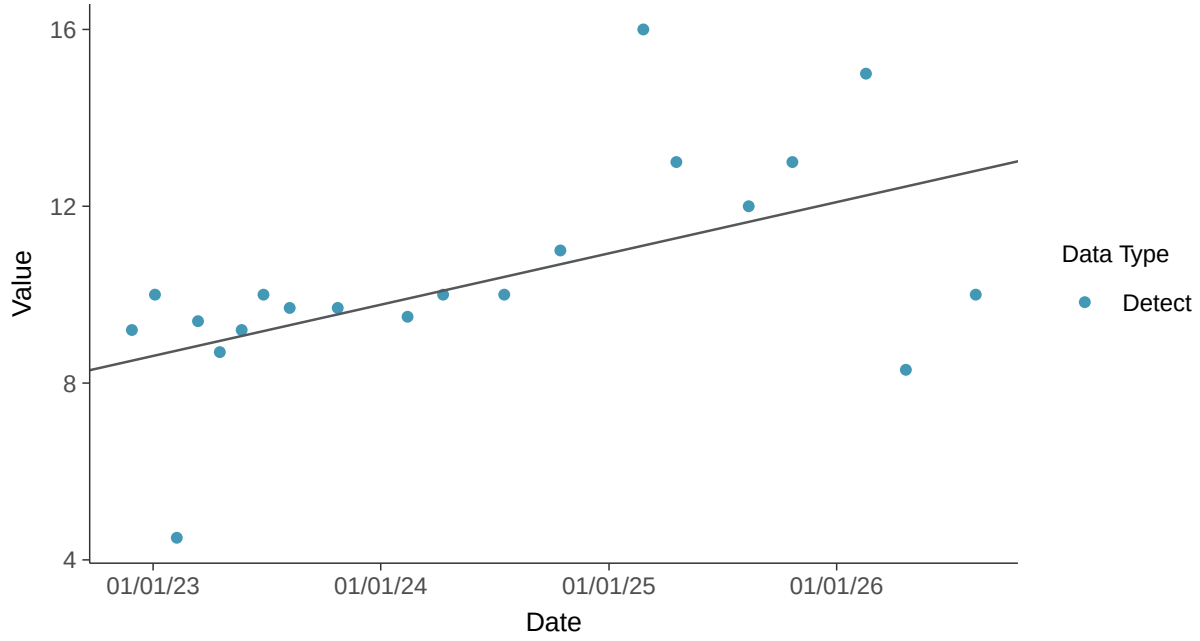
Normal Q-Q plot

Fluoride, MW-02 (mg/L)



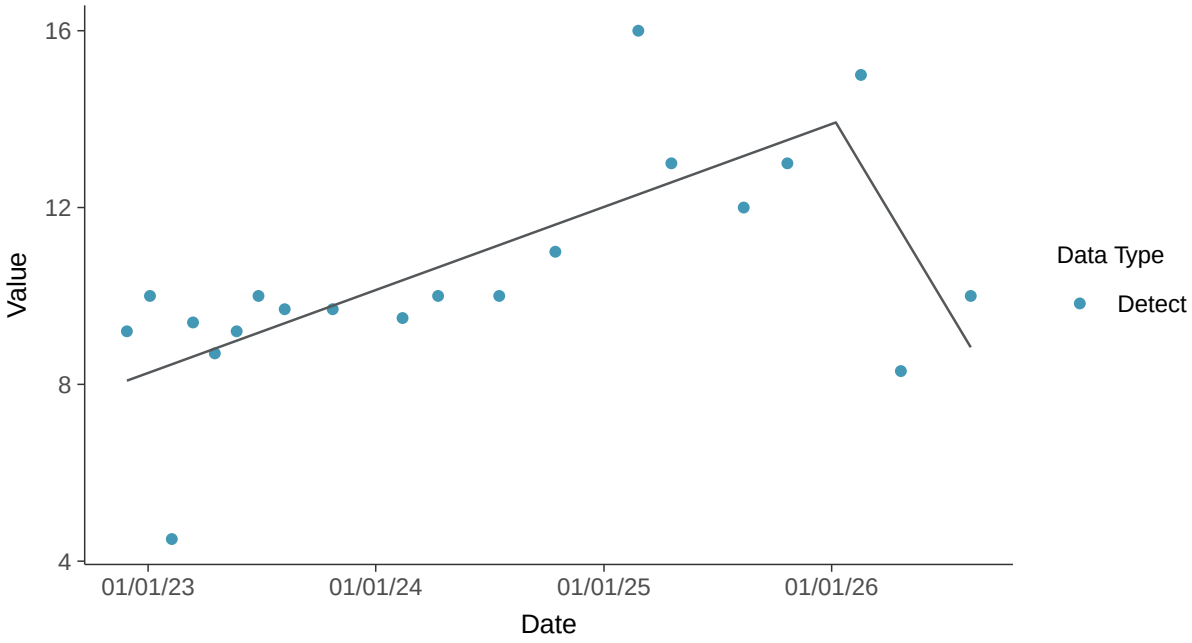
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Fluoride, MW-02 (mg/L)



Trend Regression: Piecewise Linear-Linear

Fluoride, MW-02 (mg/L)

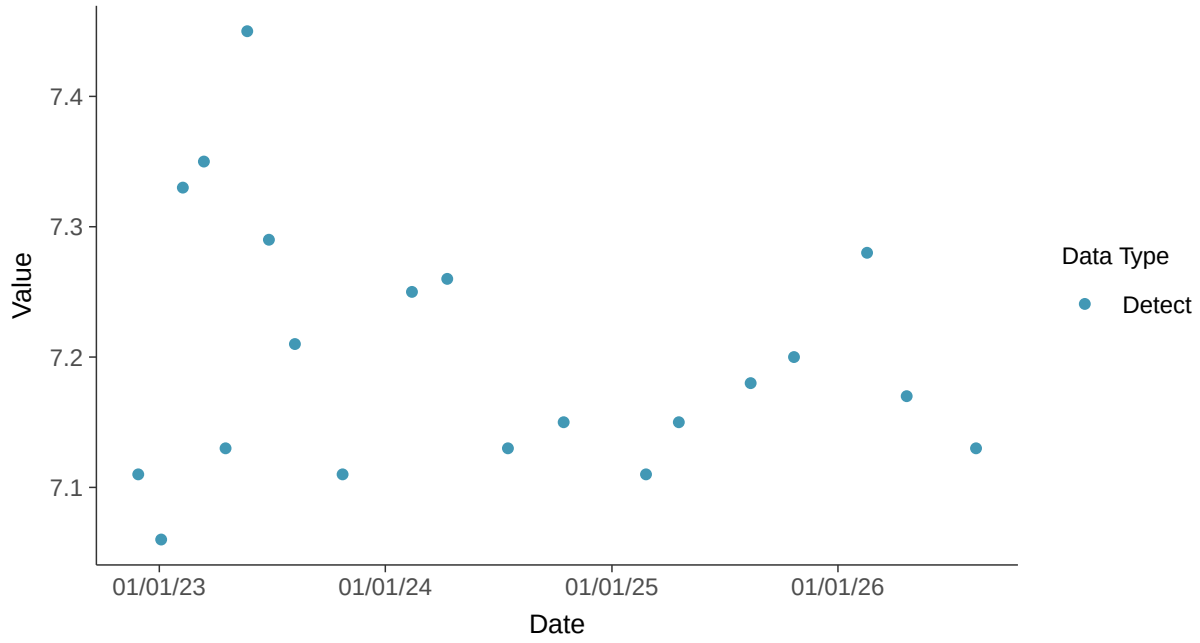


Appendix III: pH (field), MW-02

ID: 12_2_3_120

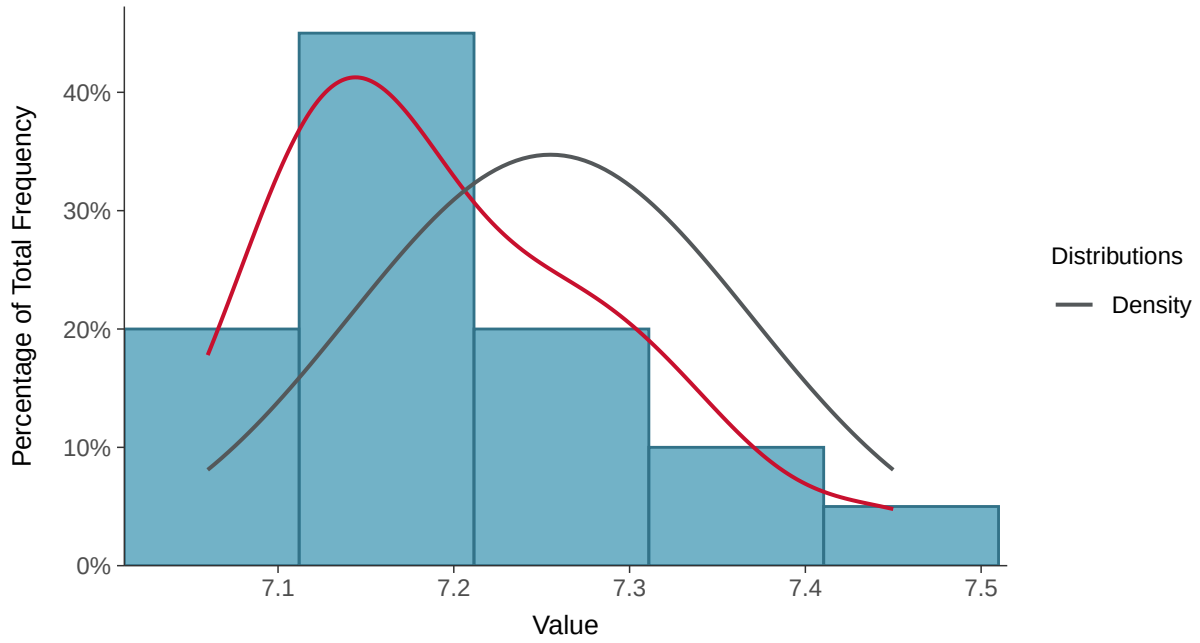
Scatter Plot

pH (field), MW-02 (su)



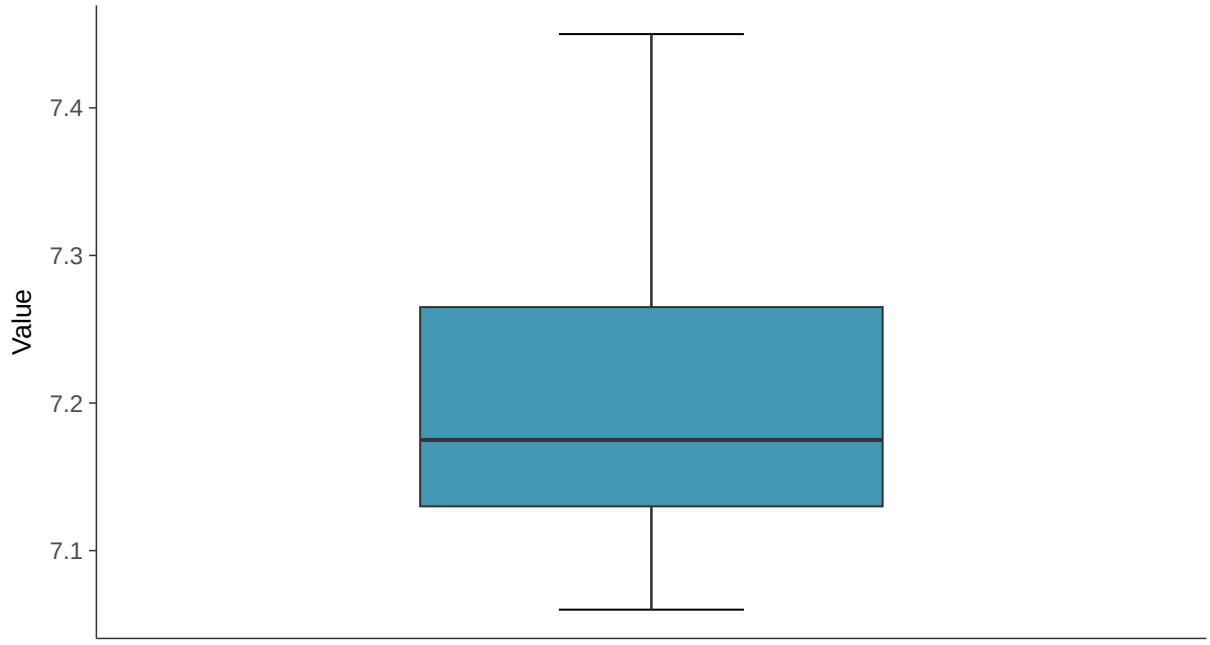
Histogram

pH (field), MW-02 (su)



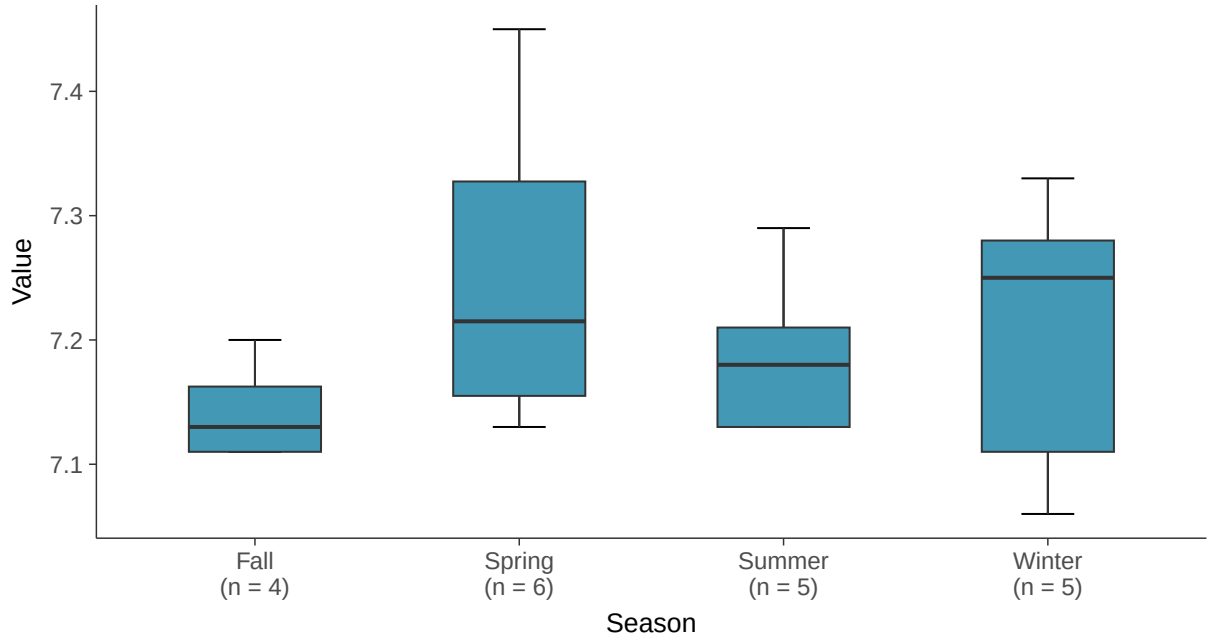
Boxplot

pH (field), MW-02 (su)



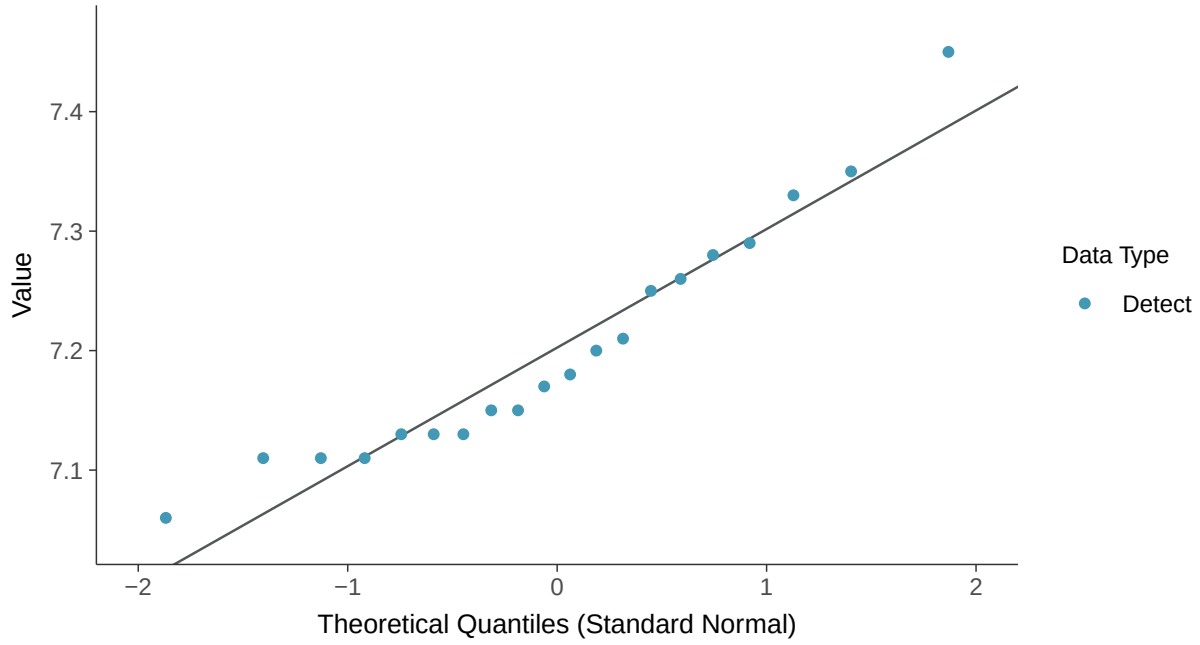
Boxplot by Season

pH (field), MW-02 (su)



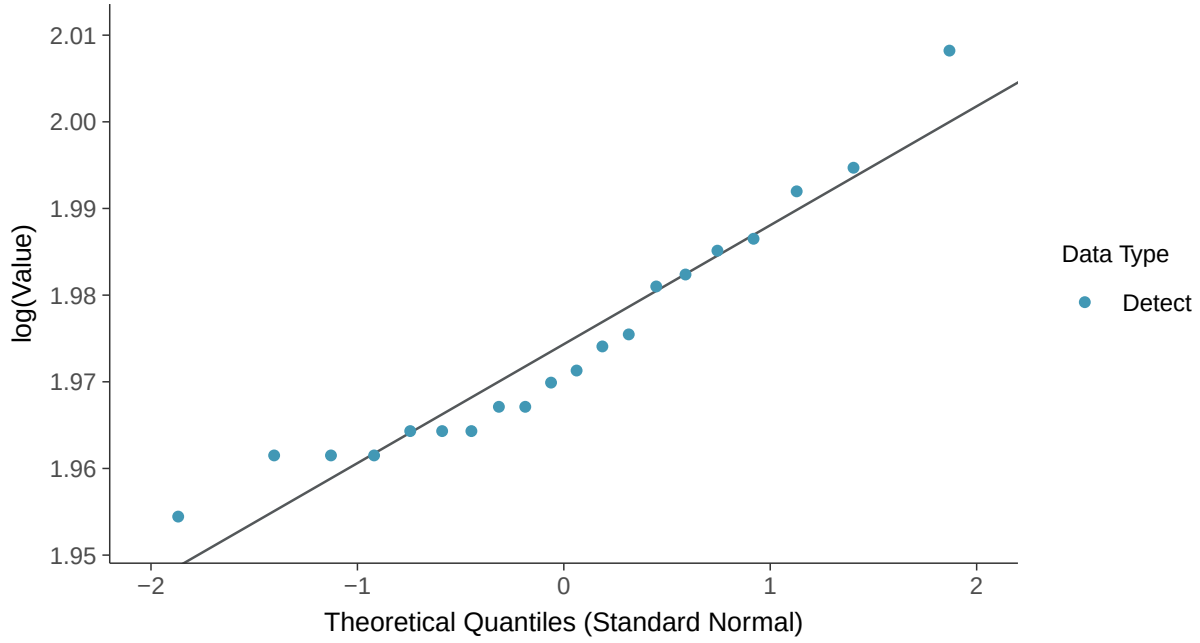
Normal Q-Q plot

pH (field), MW-02 (su)



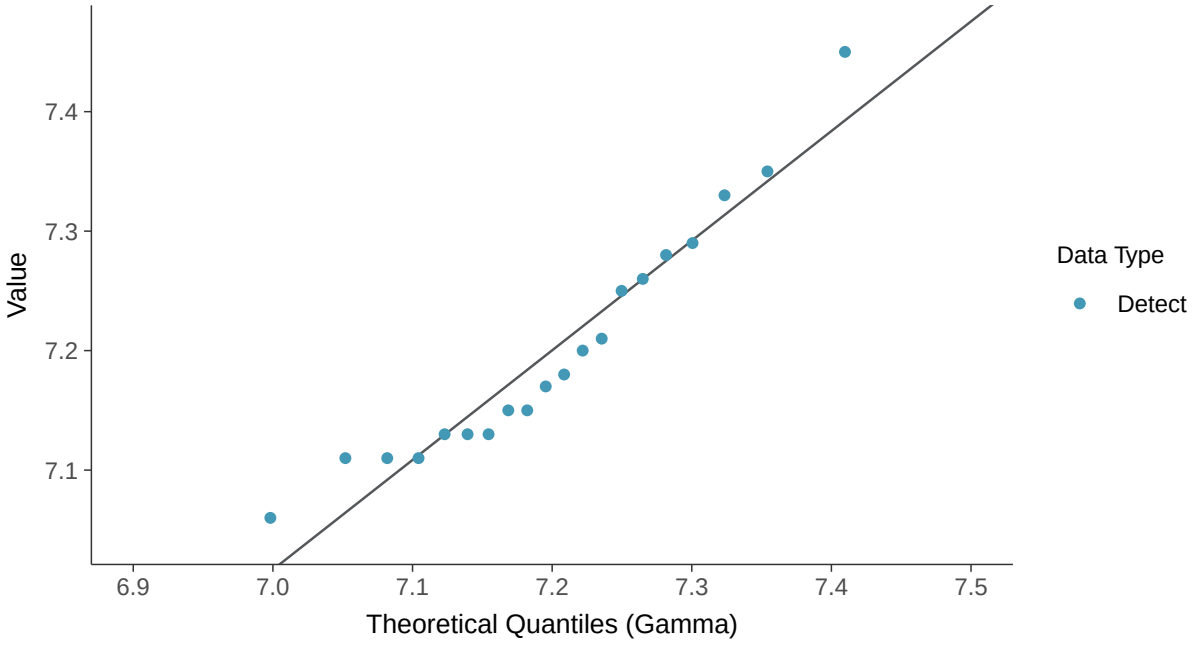
Lognormal Q-Q plot

pH (field), MW-02 (su)



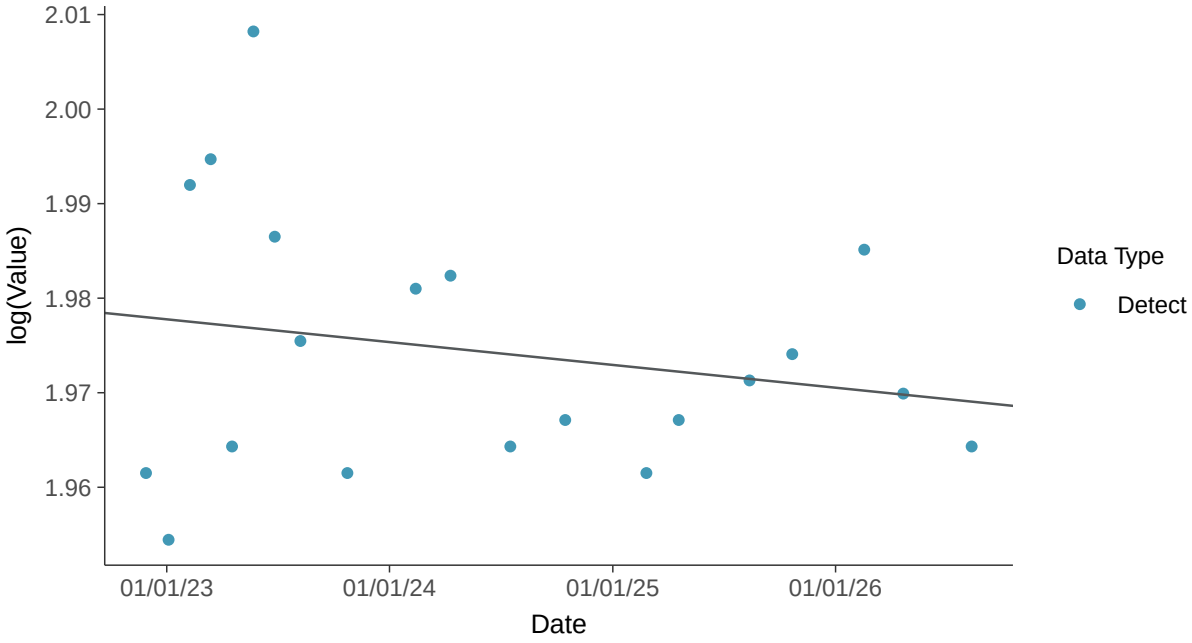
Gamma Q-Q plot

pH (field), MW-02 (su)



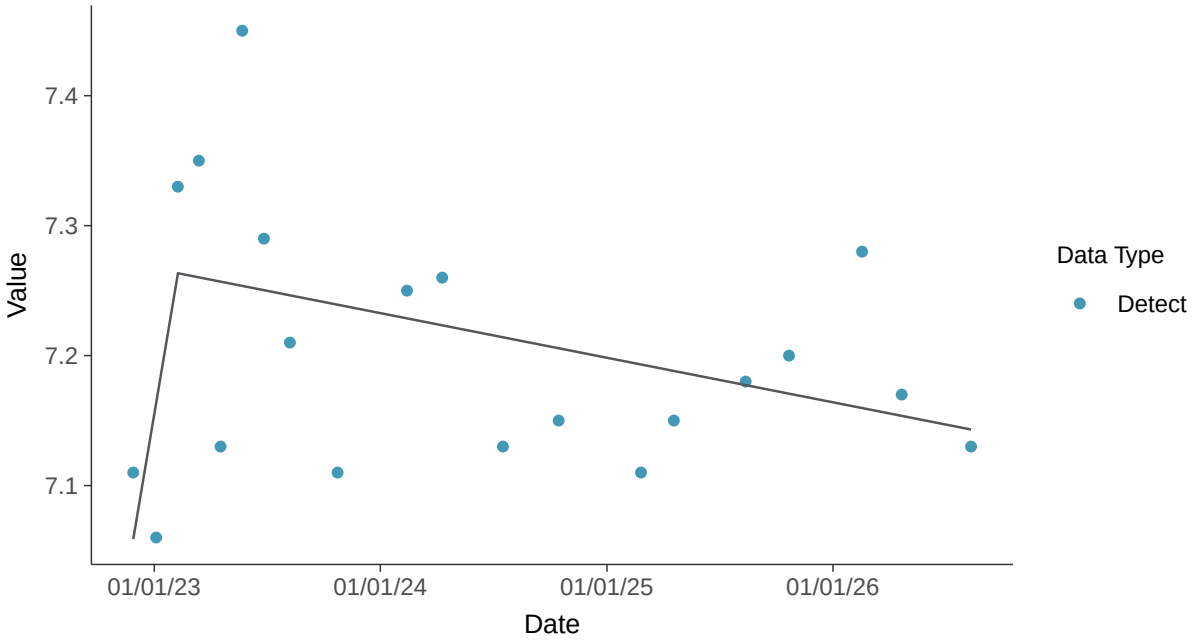
Trend Regression: Lognormal MLE

pH (field), MW-02 (su)



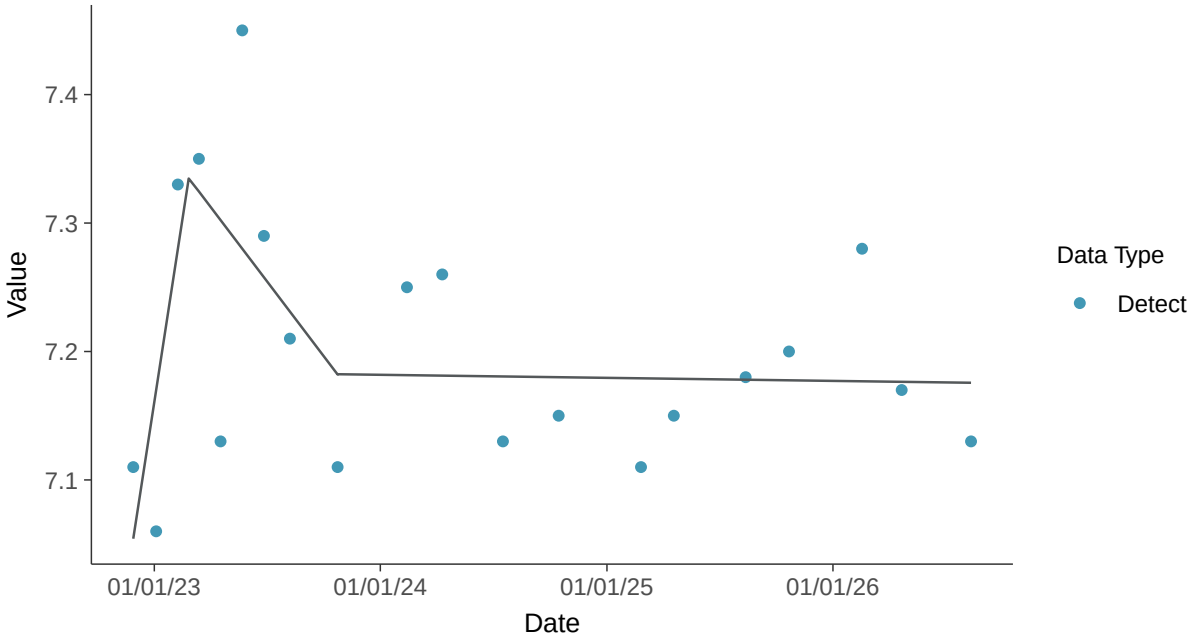
Trend Regression: Piecewise Linear-Linear

pH (field), MW-02 (su)



Trend Regression: Piecewise Linear-Linear-Linear

pH (field), MW-02 (su)

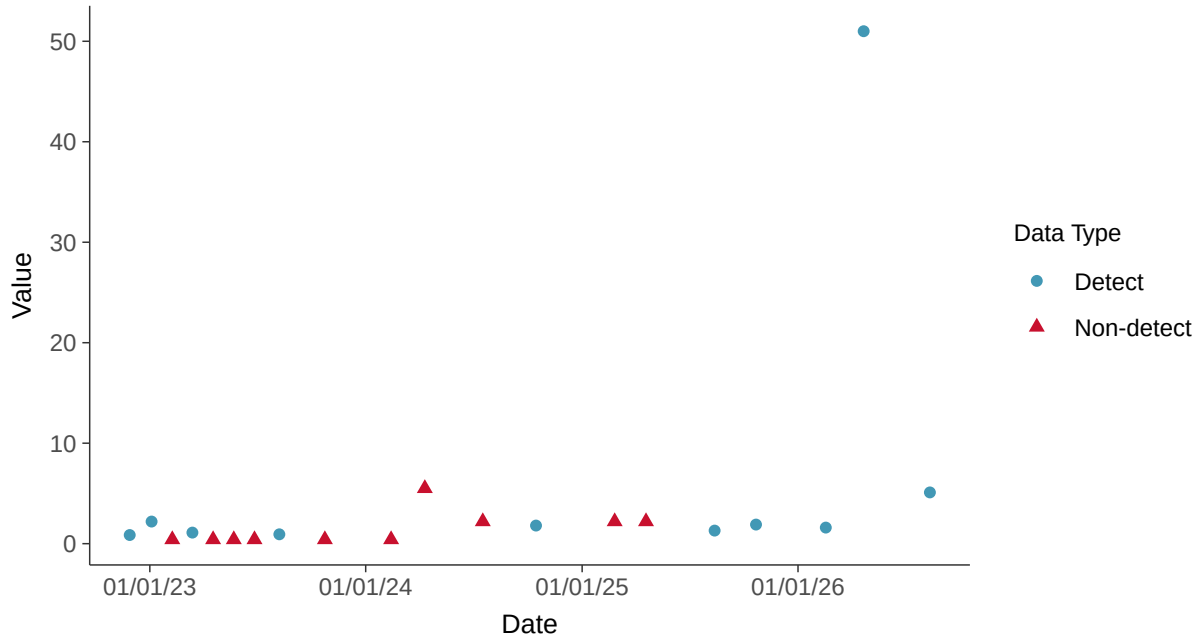


Appendix III: Sulfate (as SO4), MW-02

ID: 12_2_3_124

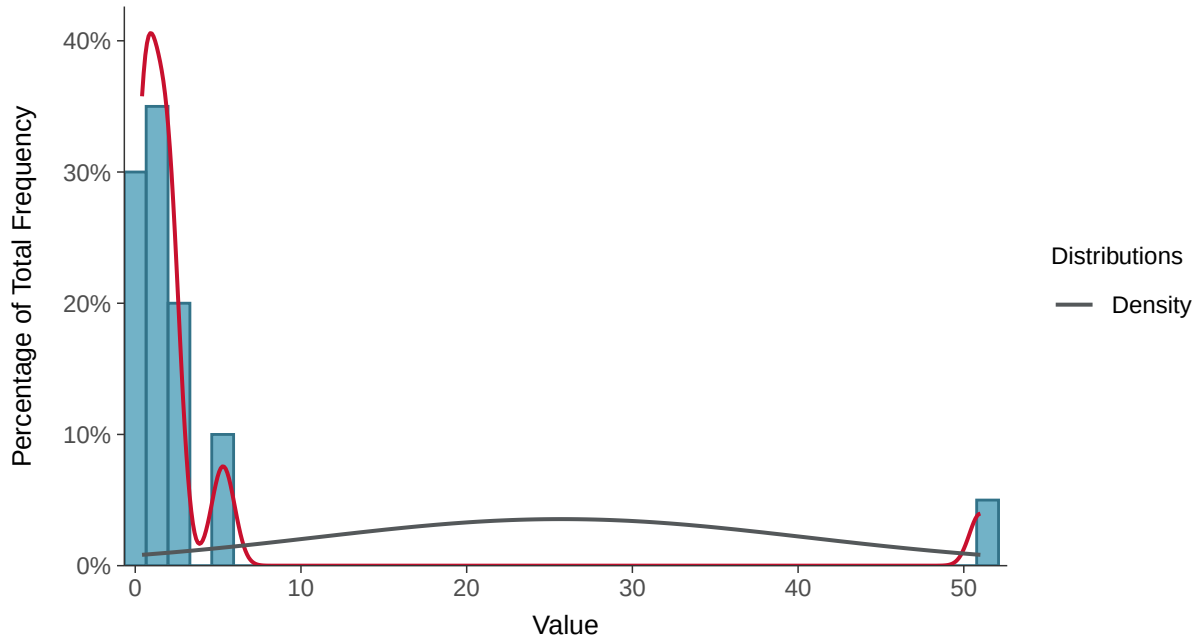
Scatter Plot

Sulfate (as SO4), MW-02 (mg/L)



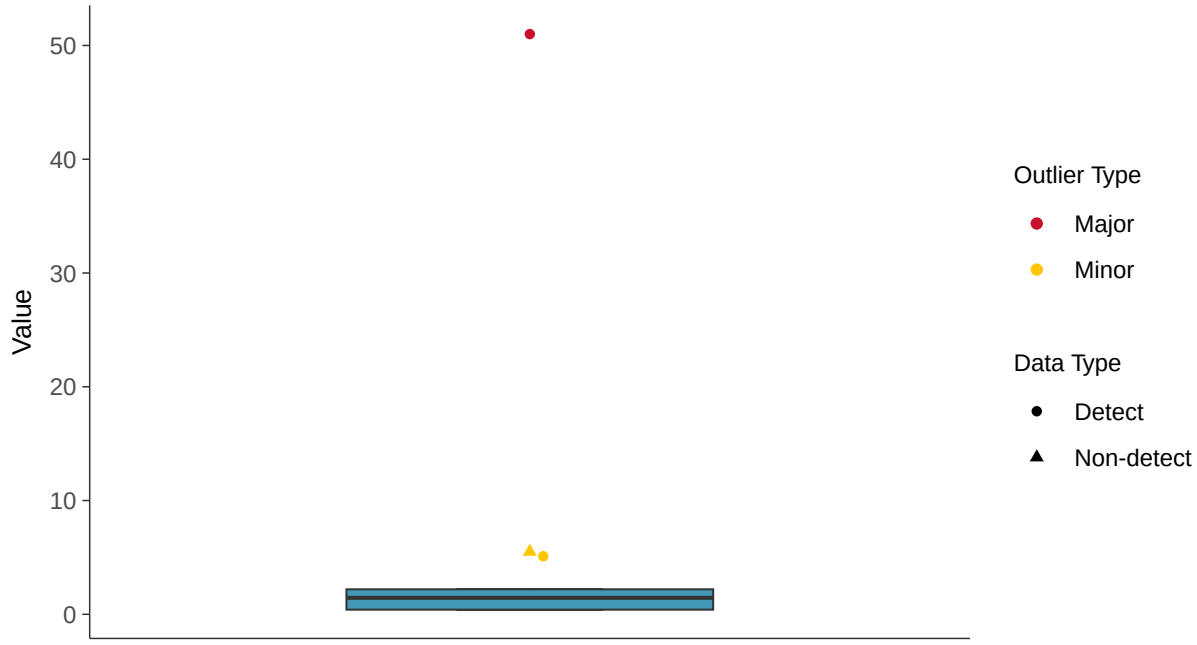
Histogram

Sulfate (as SO4), MW-02 (mg/L)



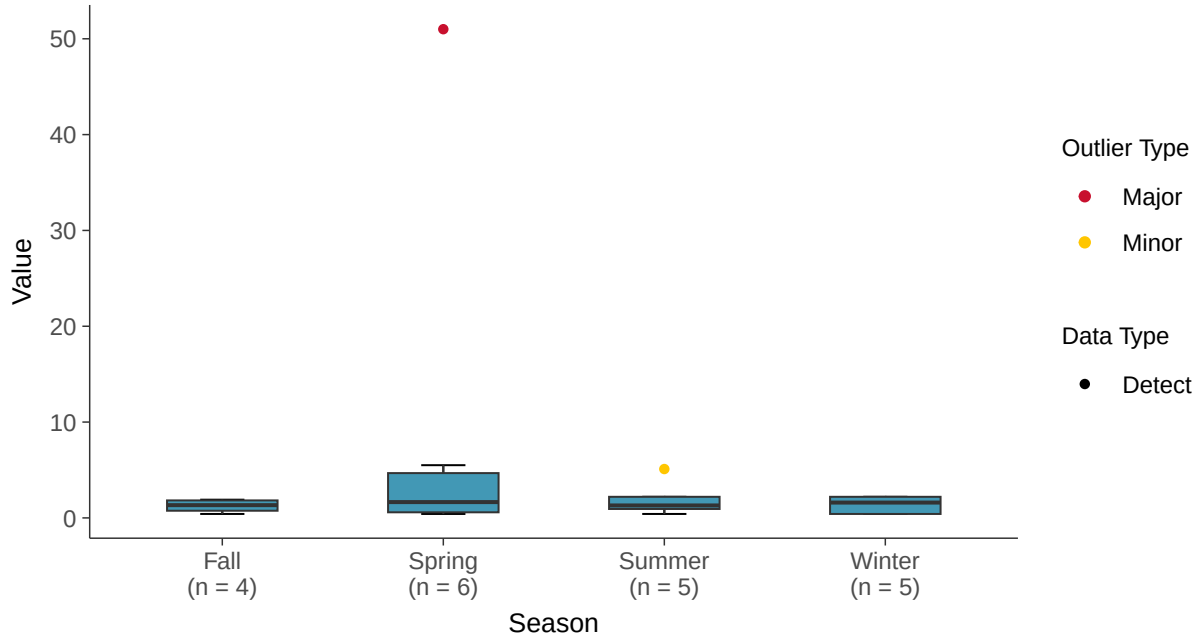
Boxplot

Sulfate (as SO4), MW-02 (mg/L)



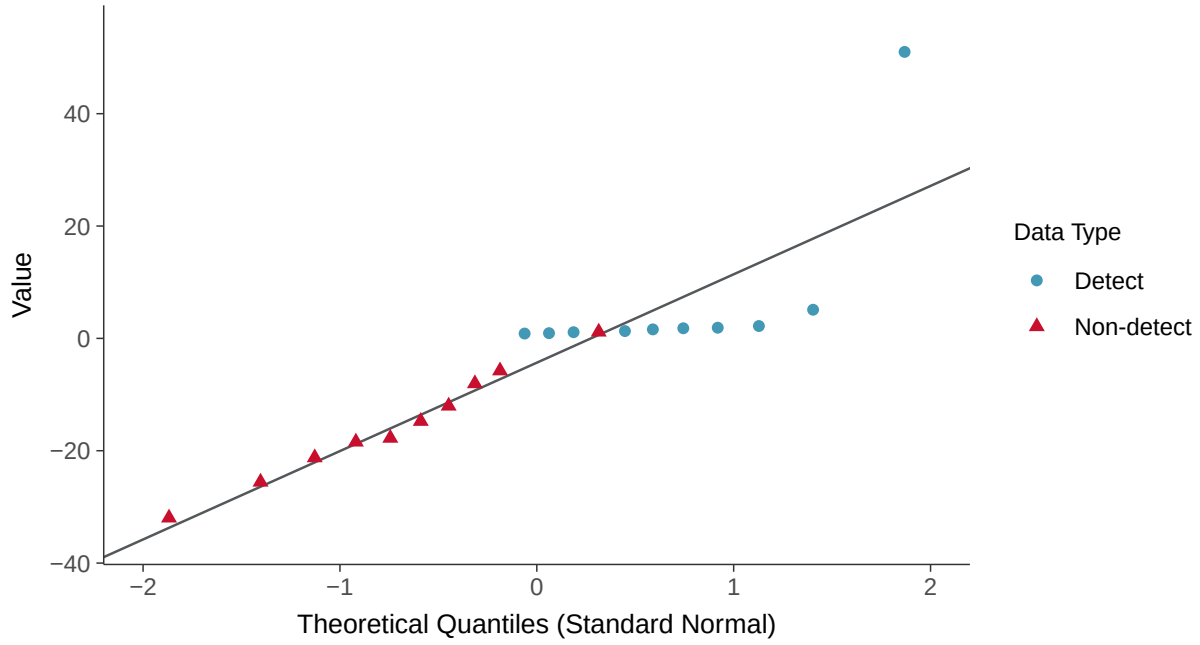
Boxplot by Season

Sulfate (as SO4), MW-02 (mg/L)



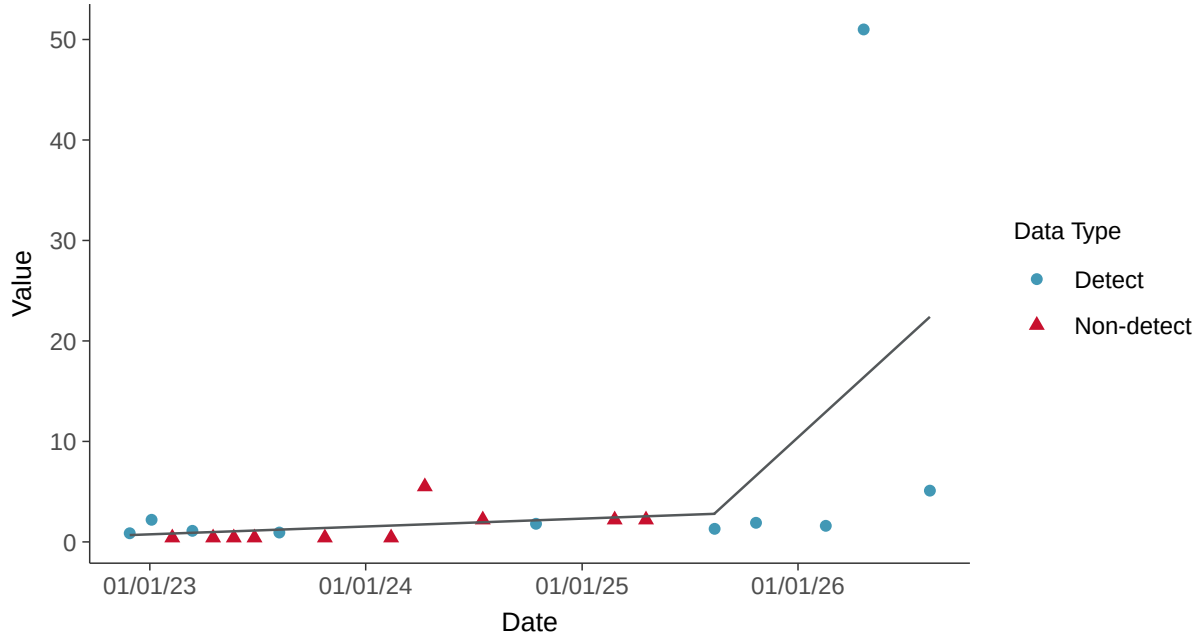
Normal Q-Q plot using ROS Imputed Estimates

Sulfate (as SO4), MW-02 (mg/L)



Trend Regression: Piecewise Linear-Linear

Sulfate (as SO4), MW-02 (mg/L)

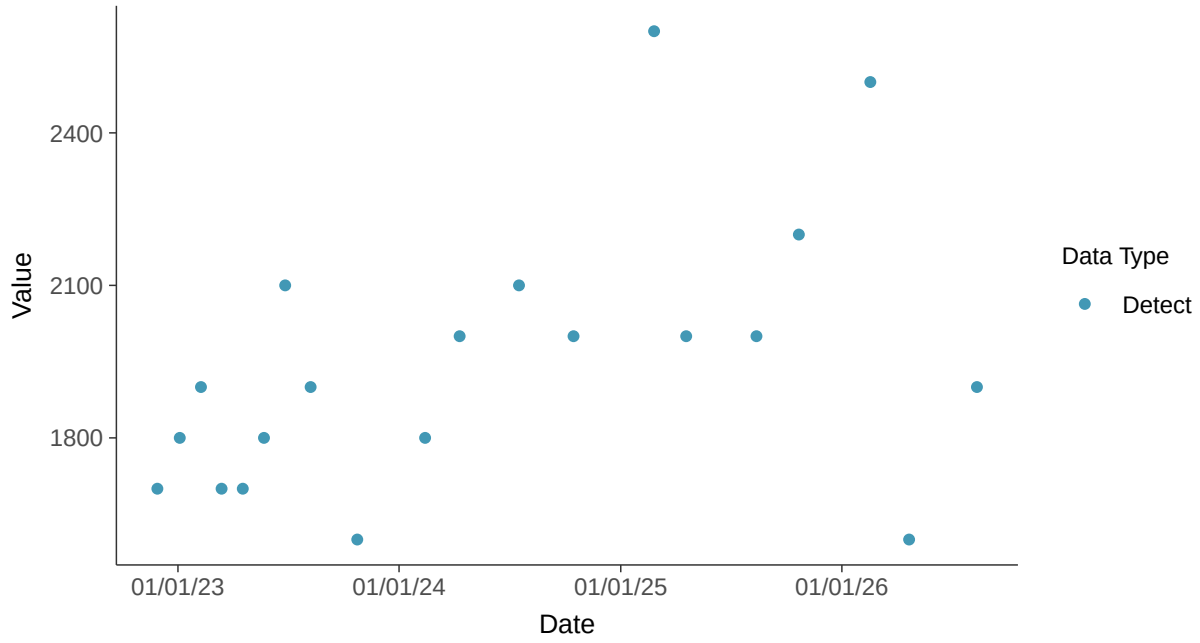


Appendix III: Total Dissolved Solids, MW-02

ID: 12_2_3_126

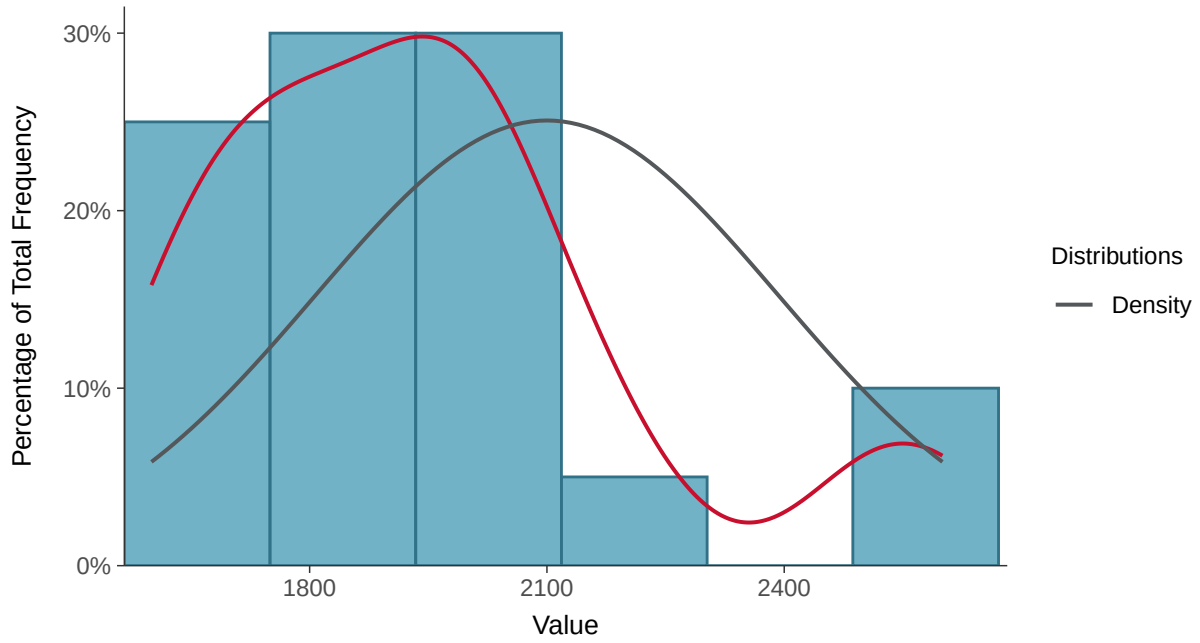
Scatter Plot

Total Dissolved Solids, MW-02 (mg/L)



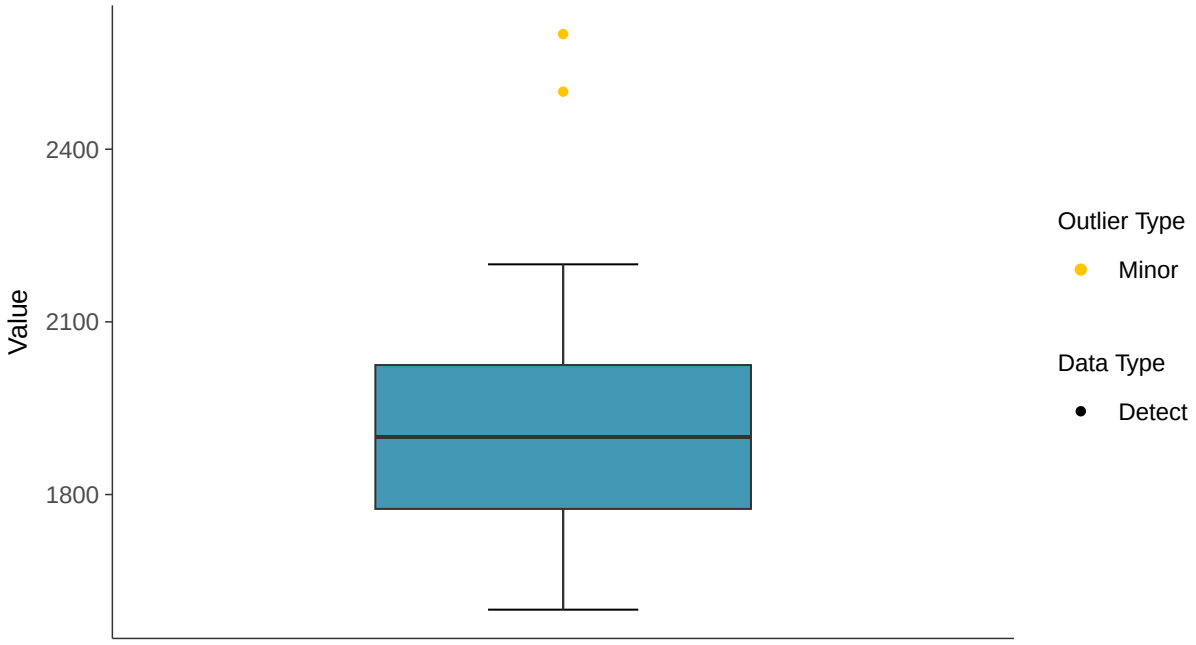
Histogram

Total Dissolved Solids, MW-02 (mg/L)



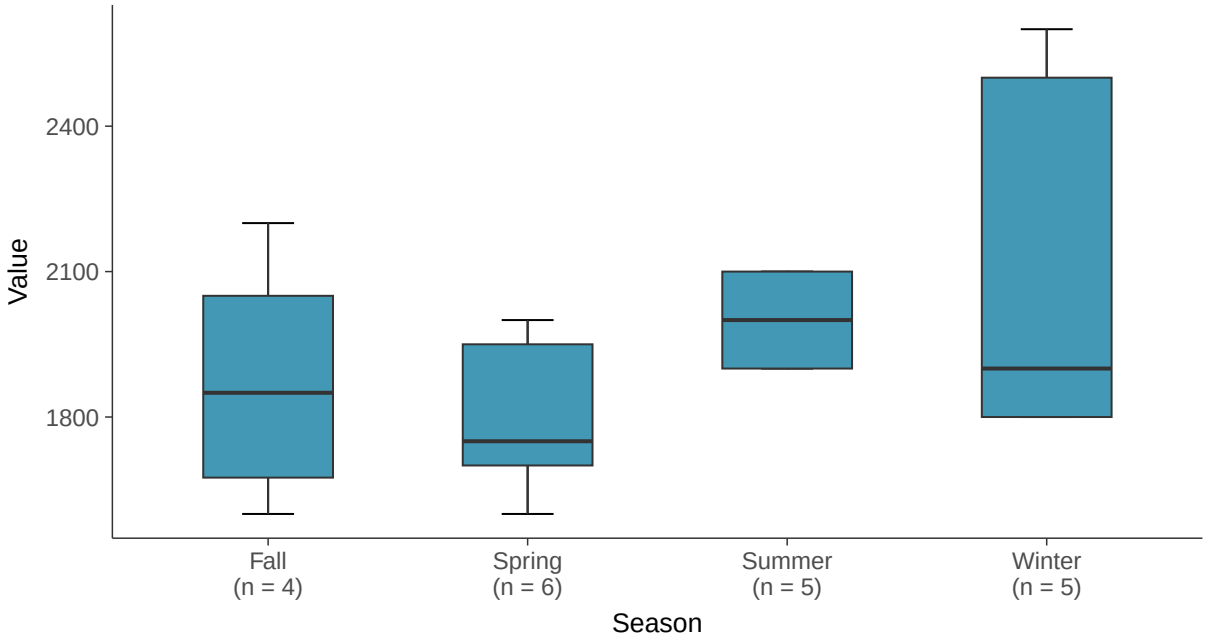
Boxplot

Total Dissolved Solids, MW-02 (mg/L)



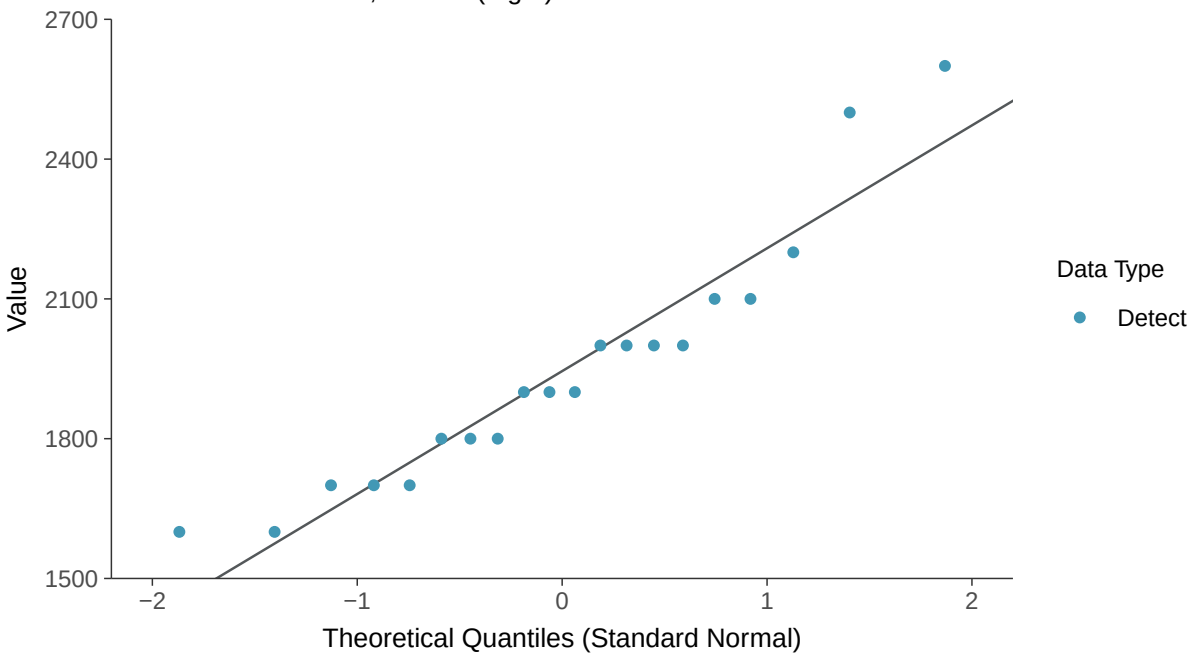
Boxplot by Season

Total Dissolved Solids, MW-02 (mg/L)



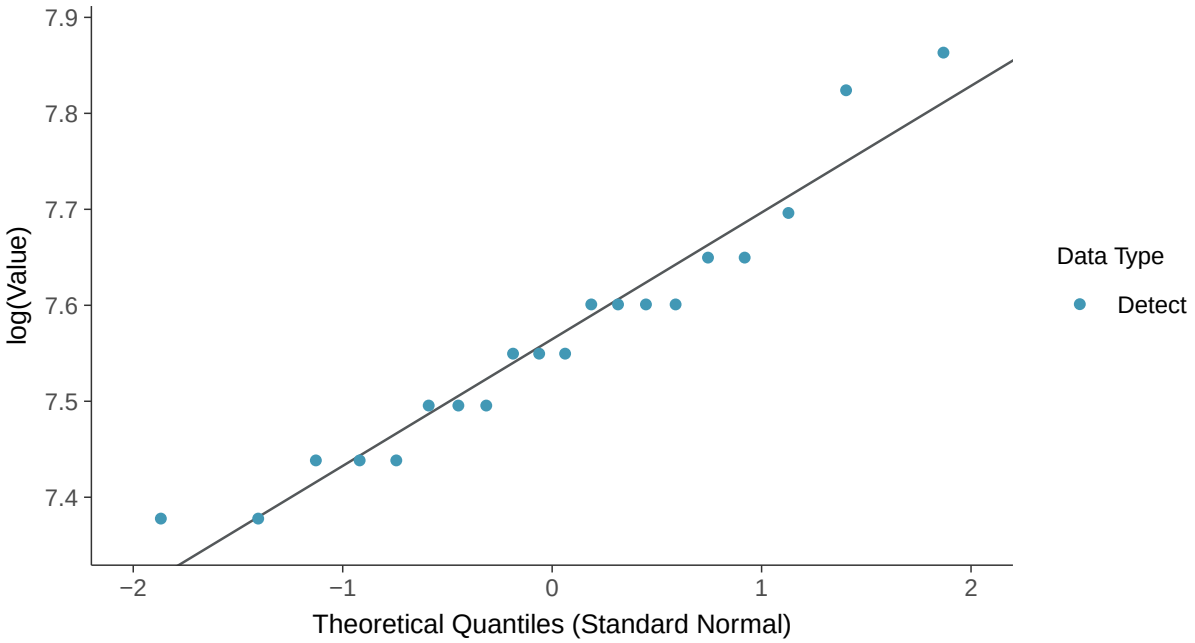
Normal Q-Q plot

Total Dissolved Solids, MW-02 (mg/L)



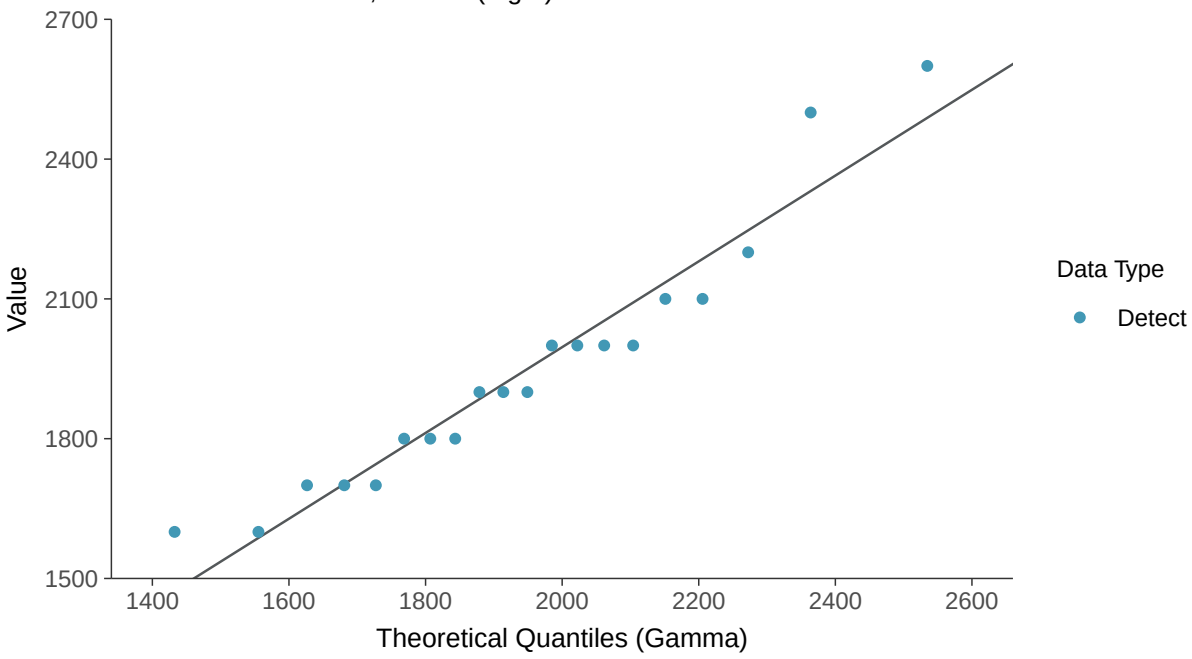
Lognormal Q-Q plot

Total Dissolved Solids, MW-02 (mg/L)



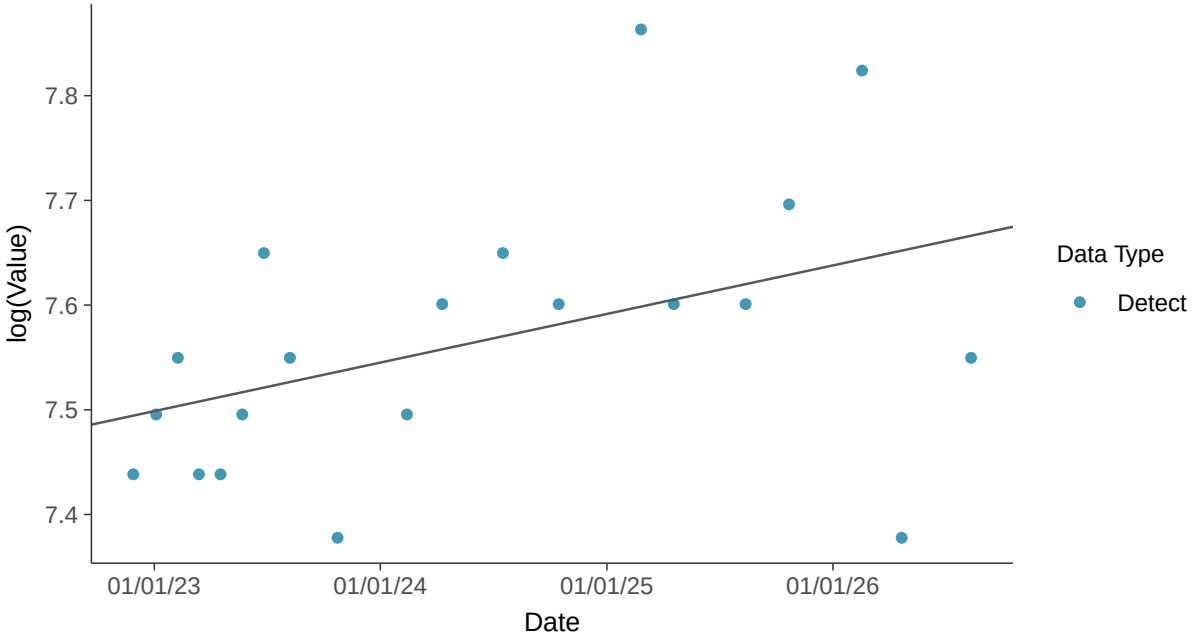
Gamma Q-Q plot

Total Dissolved Solids, MW-02 (mg/L)



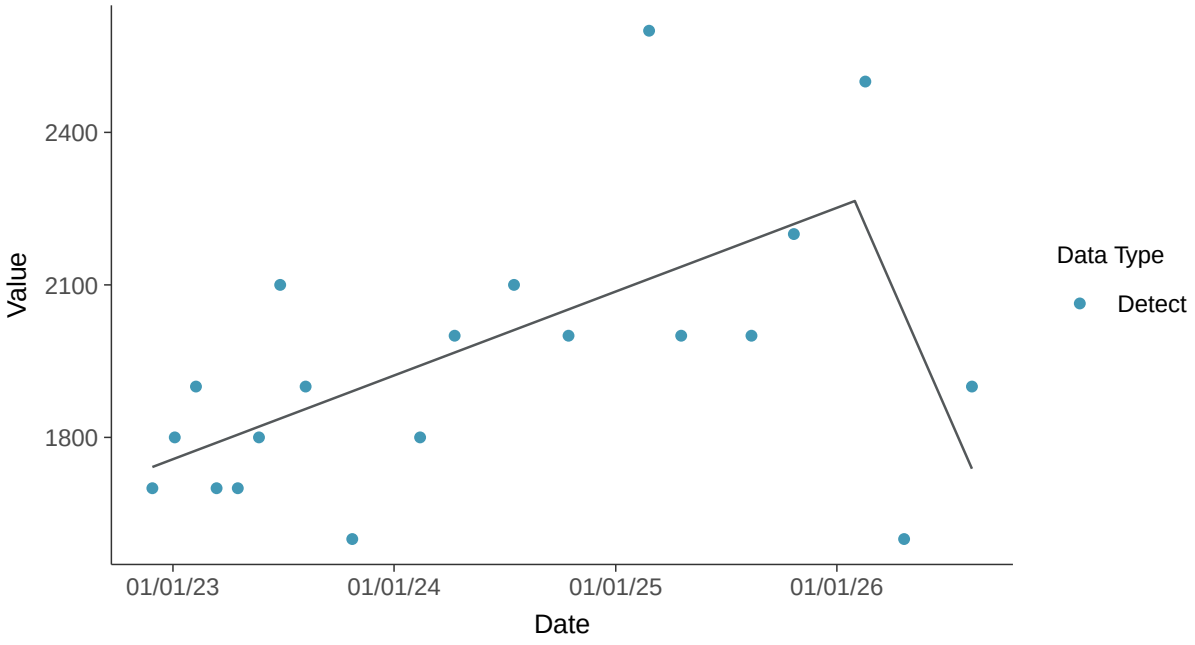
Trend Regression: Lognormal MLE

Total Dissolved Solids, MW-02 (mg/L)



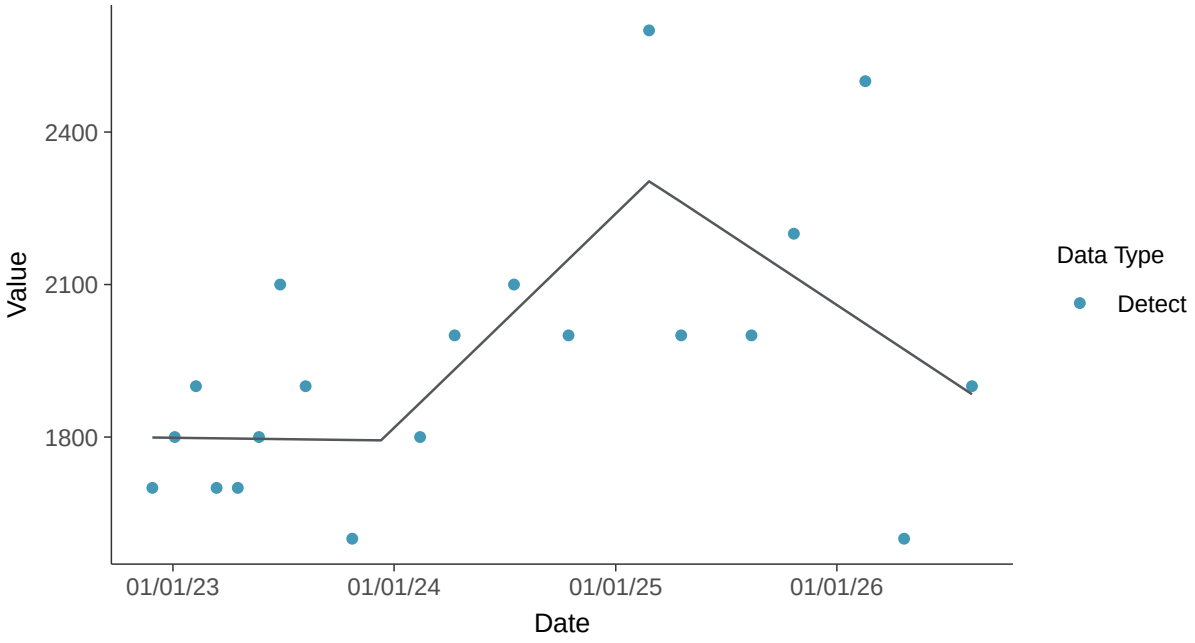
Trend Regression: Piecewise Linear-Linear

Total Dissolved Solids, MW-02 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Total Dissolved Solids, MW-02 (mg/L)

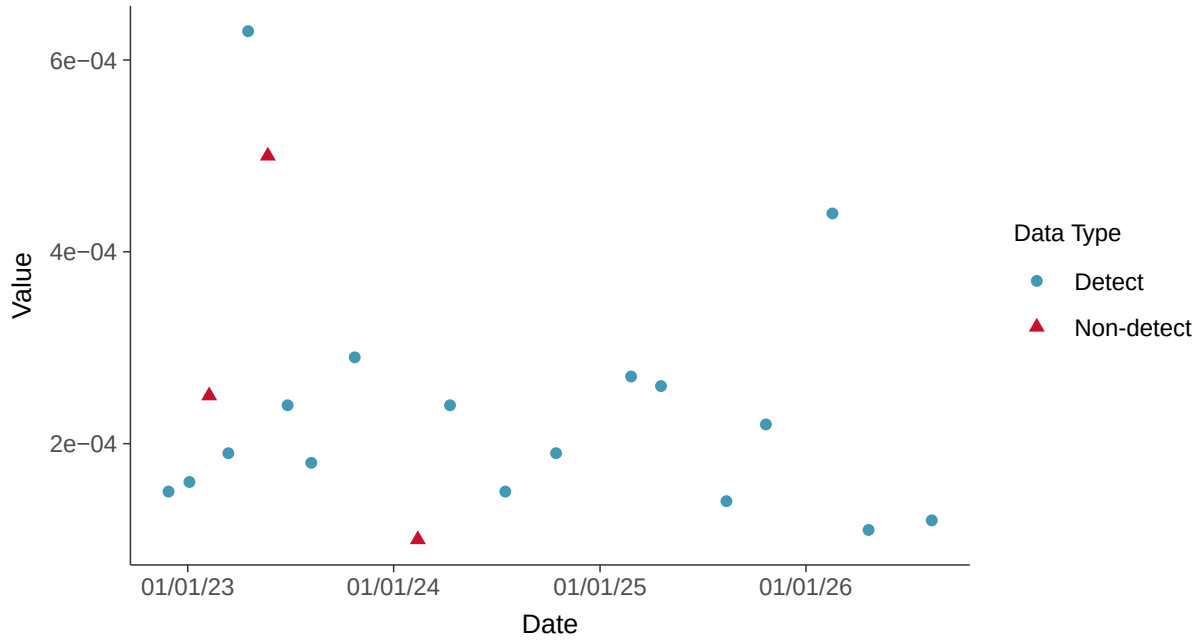


Appendix IV: Antimony, MW-02

ID: 12_2_4_101

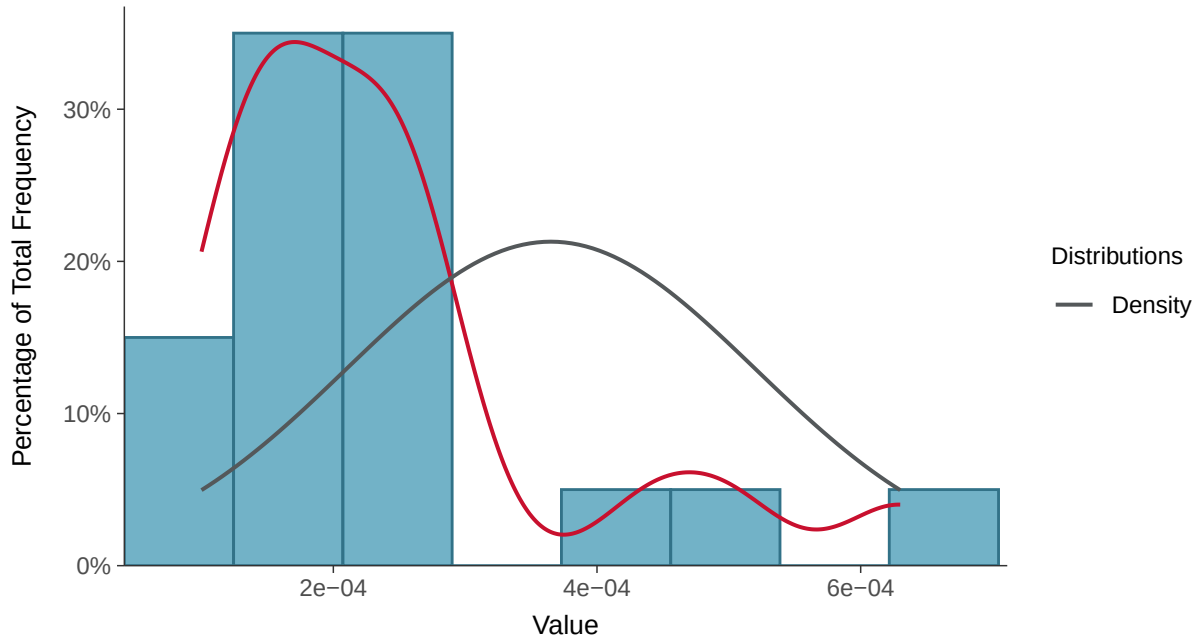
Scatter Plot

Antimony, MW-02 (mg/L)



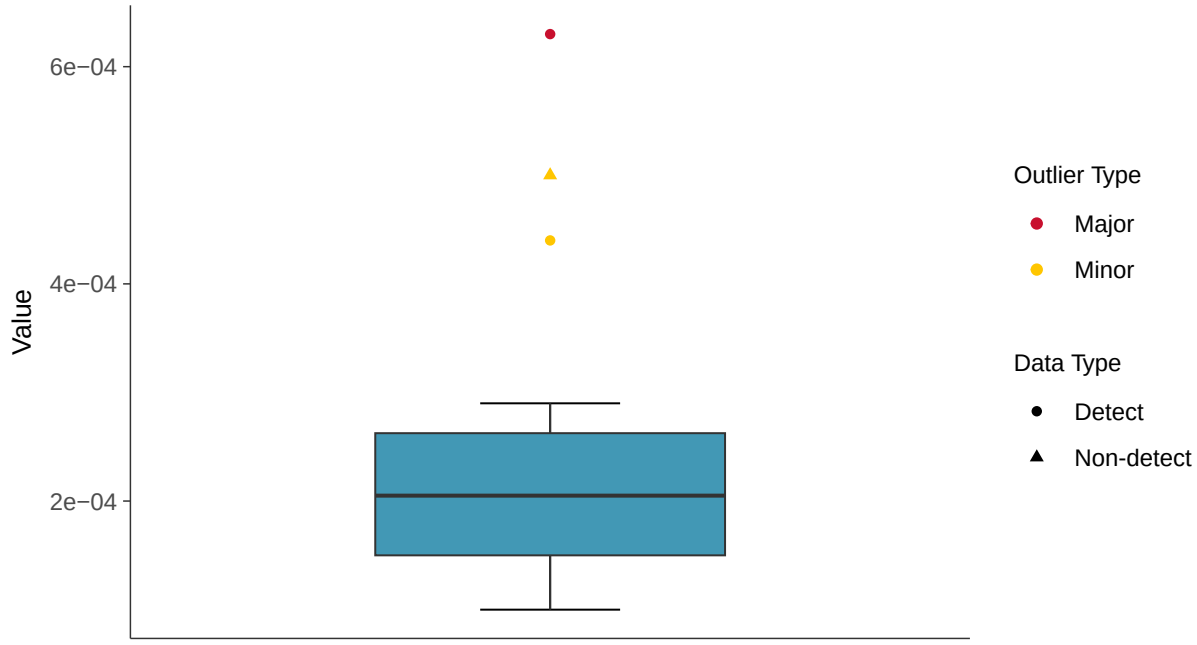
Histogram

Antimony, MW-02 (mg/L)



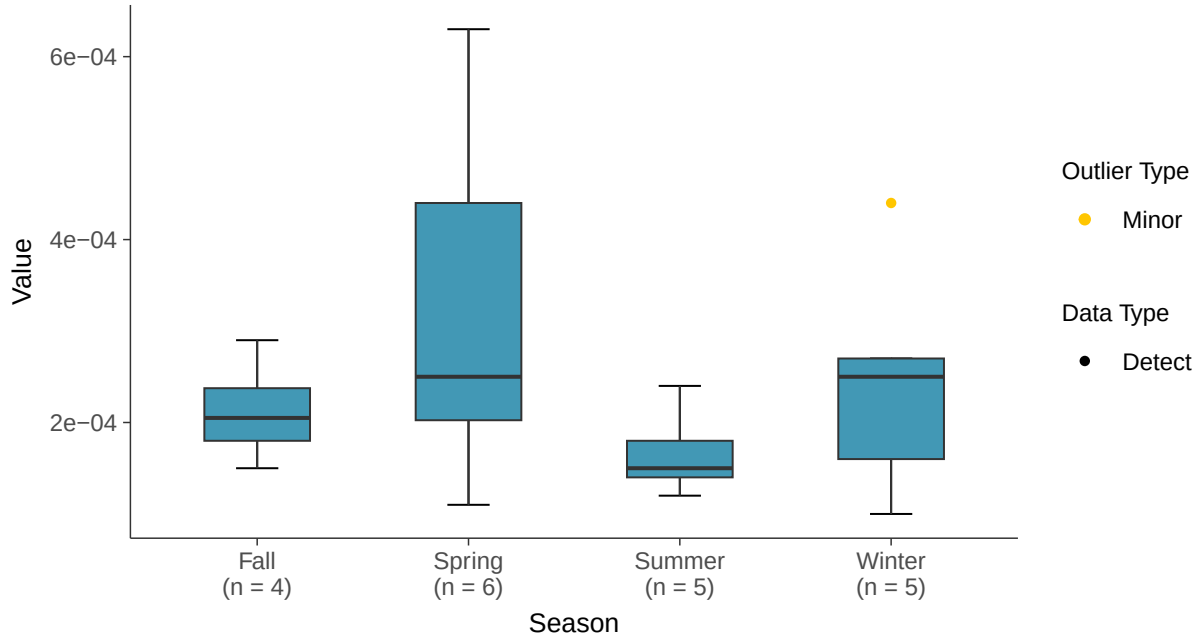
Boxplot

Antimony, MW-02 (mg/L)



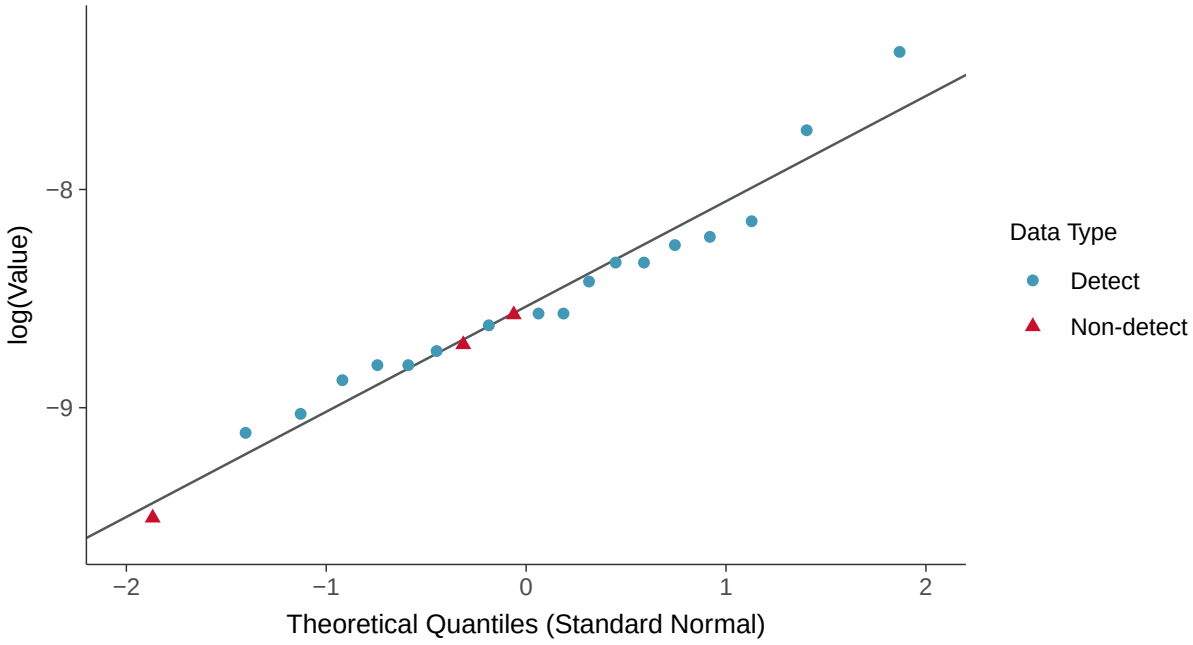
Boxplot by Season

Antimony, MW-02 (mg/L)



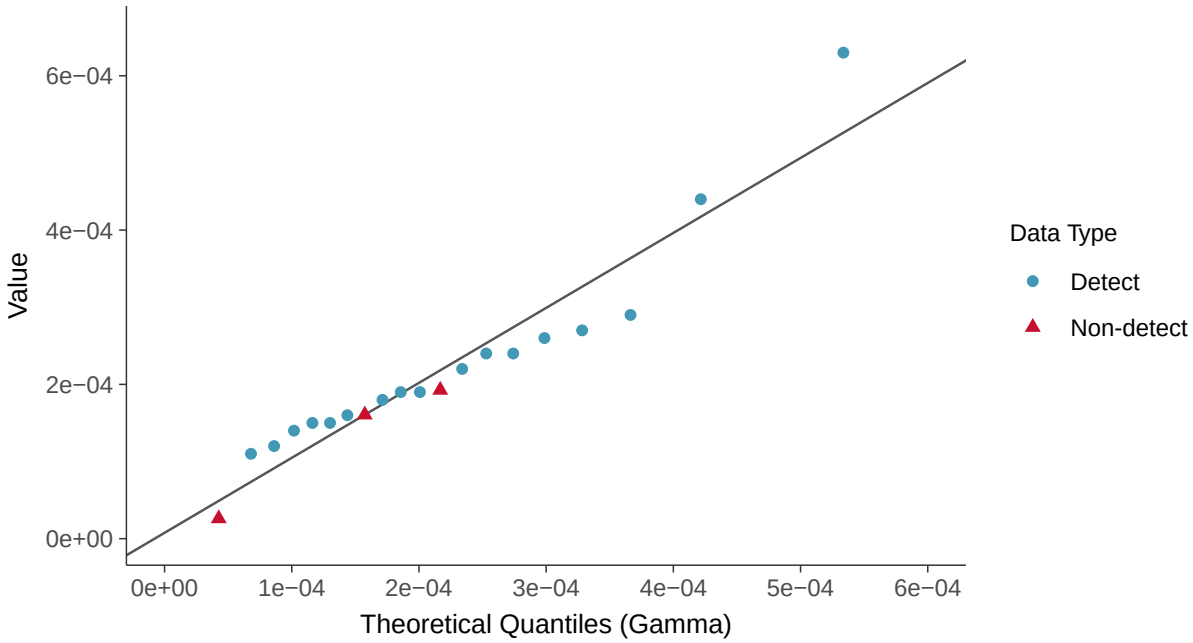
Lognormal Q-Q plot using ROS Imputed Estimates

Antimony, MW-02 (mg/L)



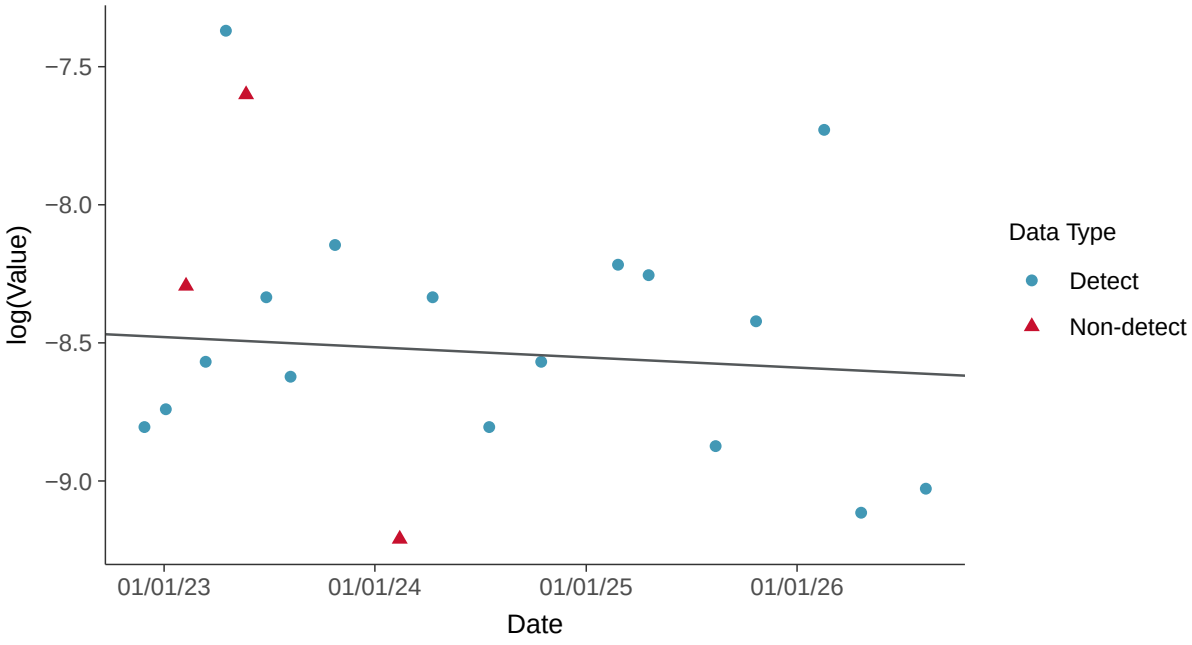
Gamma Q-Q plot using ROS Imputed Estimates

Antimony, MW-02 (mg/L)



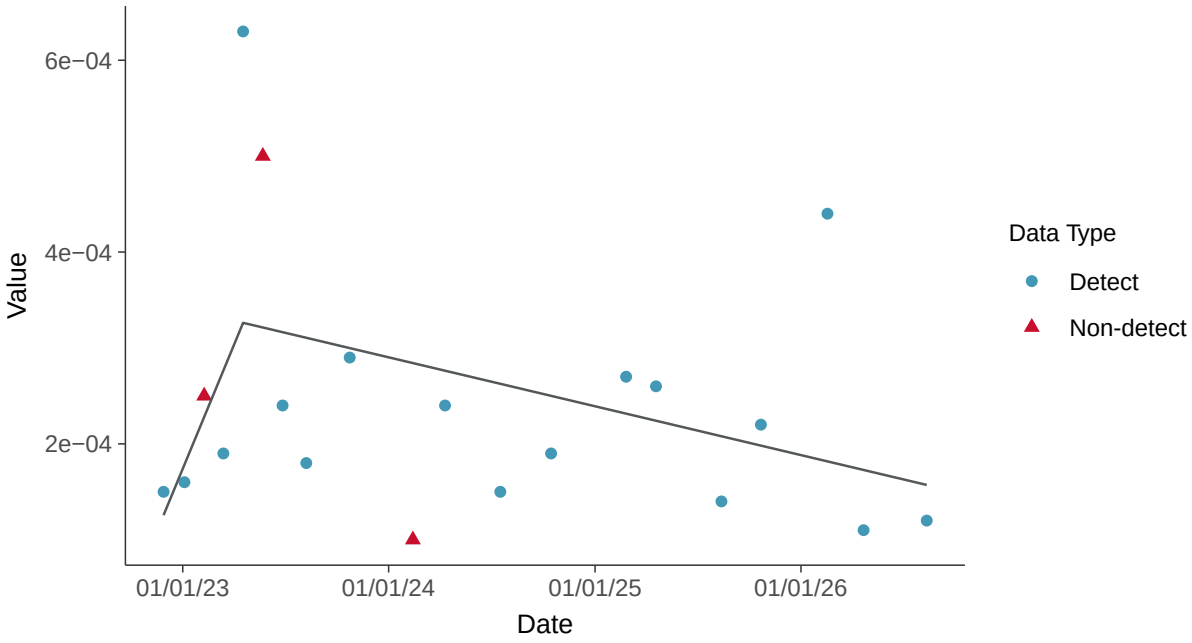
Trend Regression: Lognormal MLE

Antimony, MW-02 (mg/L)



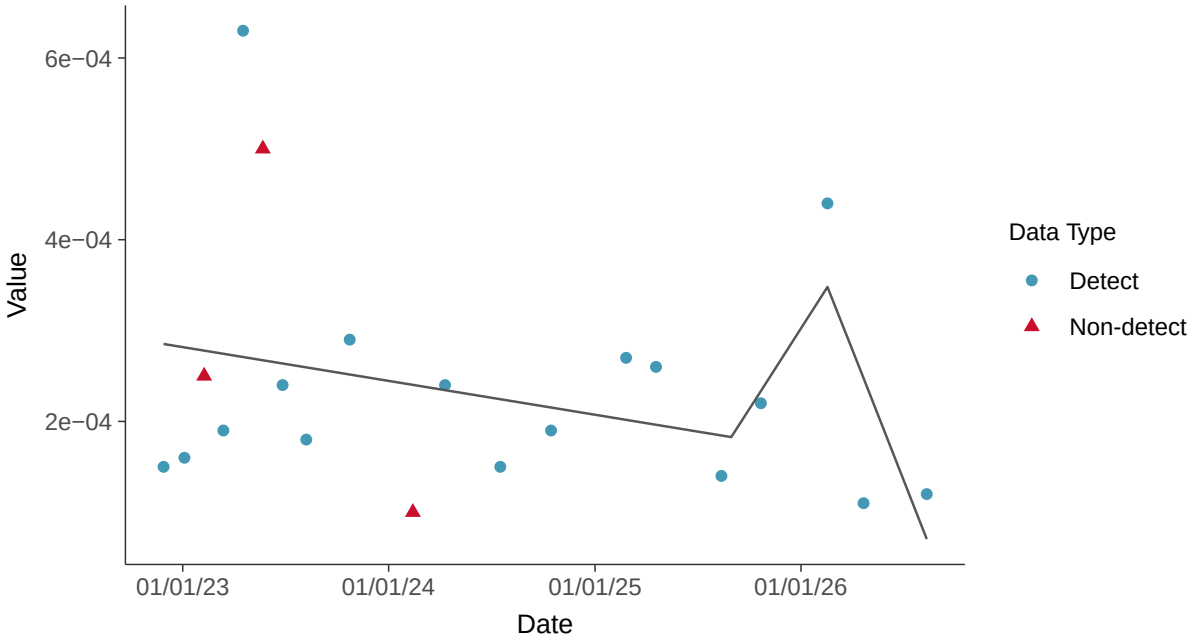
Trend Regression: Piecewise Linear-Linear

Antimony, MW-02 (mg/L)



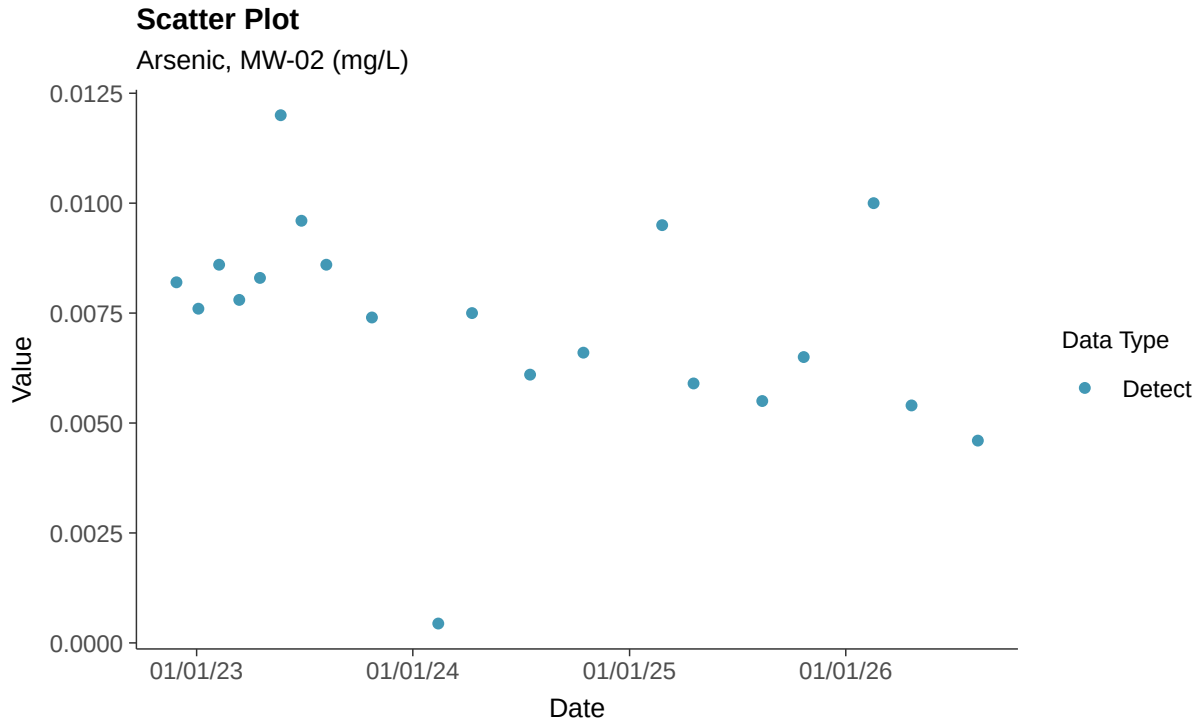
Trend Regression: Piecewise Linear-Linear-Linear

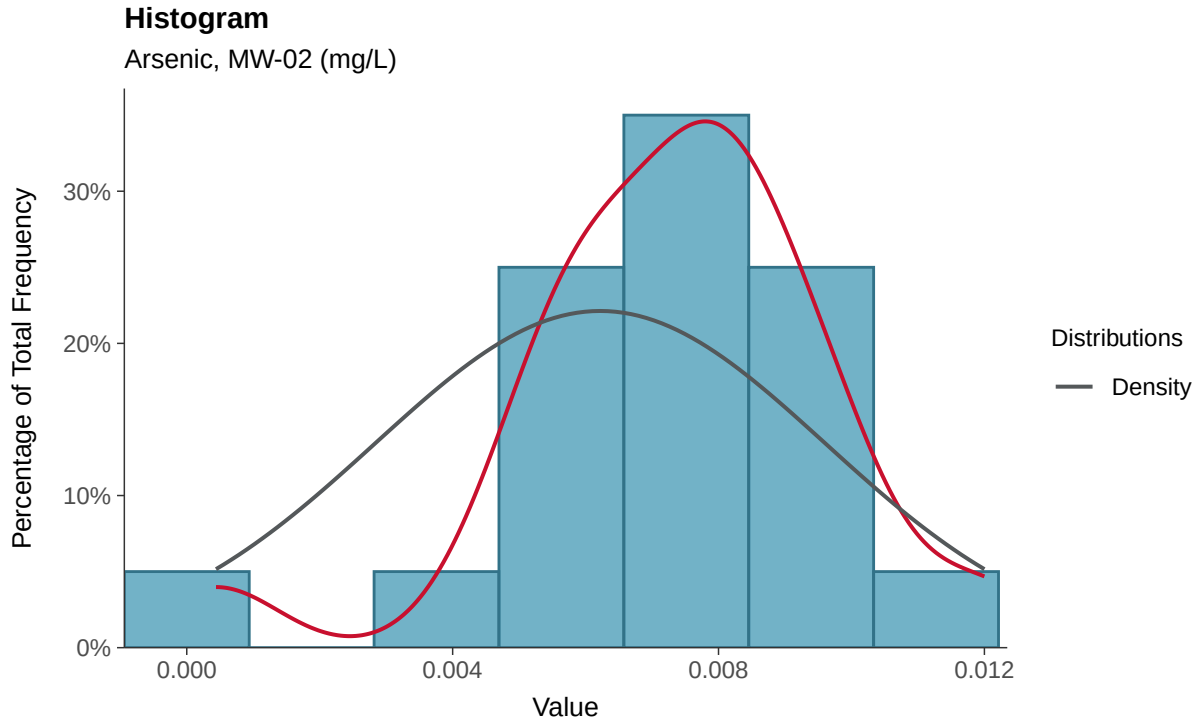
Antimony, MW-02 (mg/L)



Appendix IV: Arsenic, MW-02

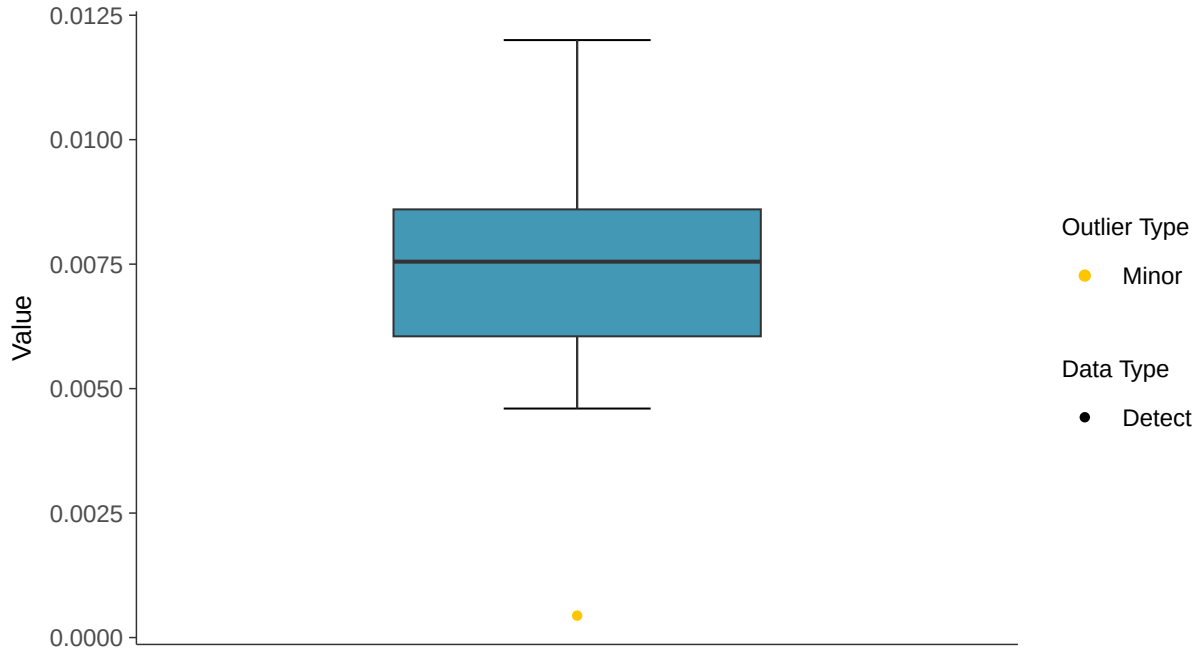
ID: 12_2_4_102





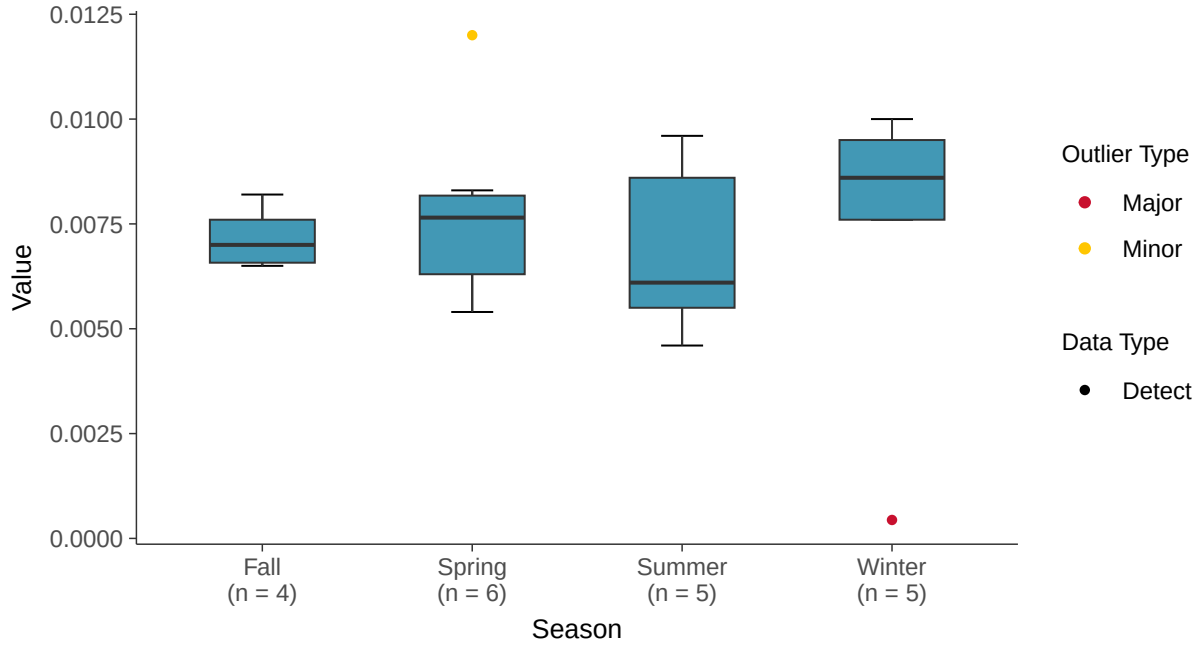
Boxplot

Arsenic, MW-02 (mg/L)



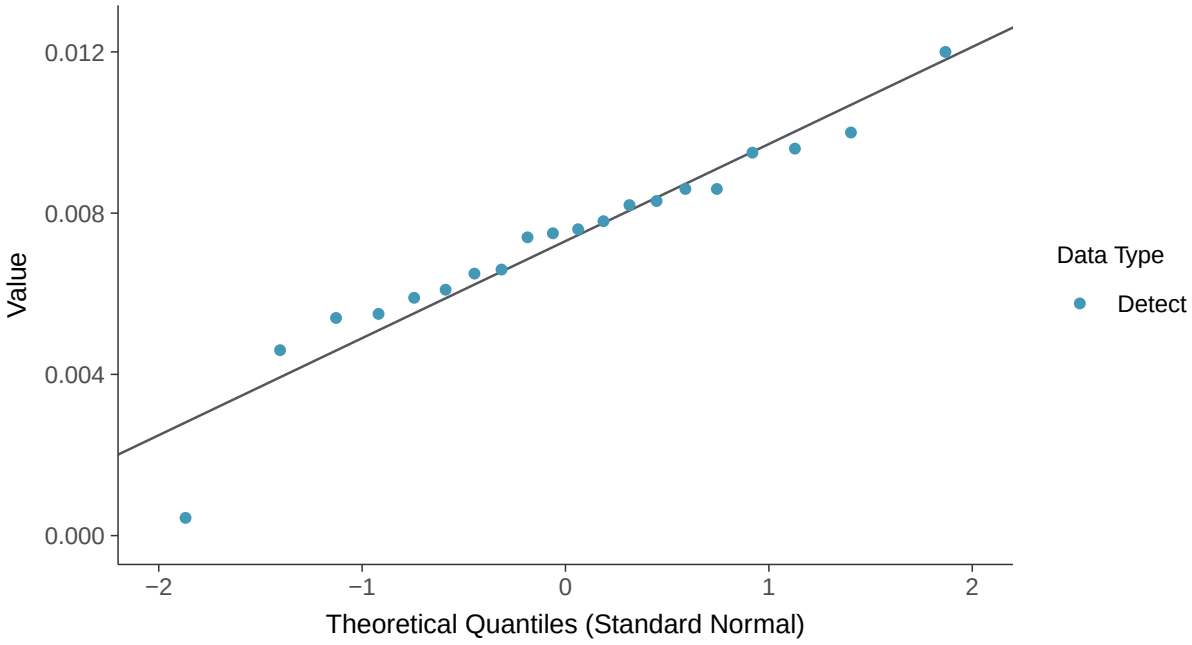
Boxplot by Season

Arsenic, MW-02 (mg/L)



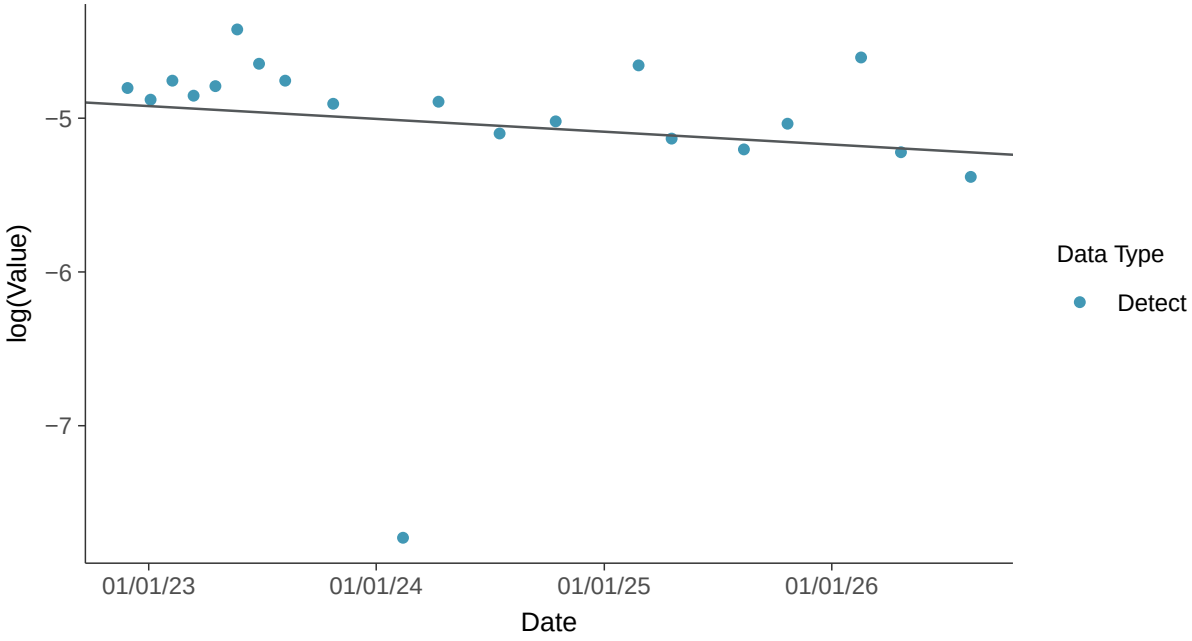
Normal Q-Q plot

Arsenic, MW-02 (mg/L)



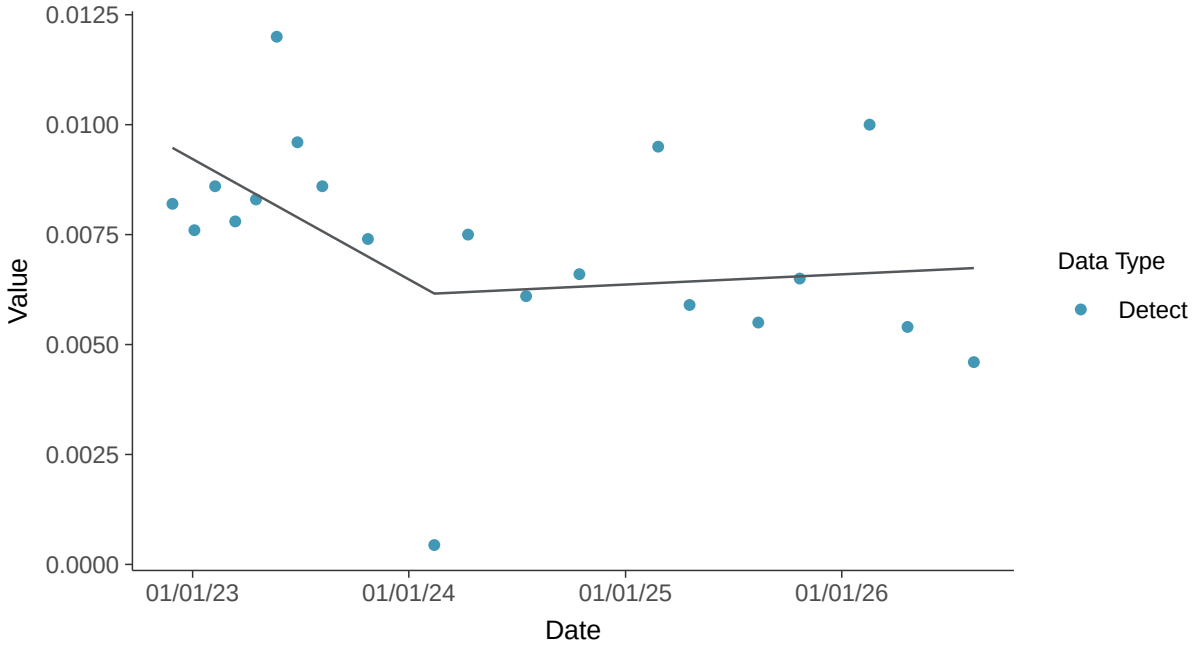
Trend Regression: Lognormal MLE

Arsenic, MW-02 (mg/L)



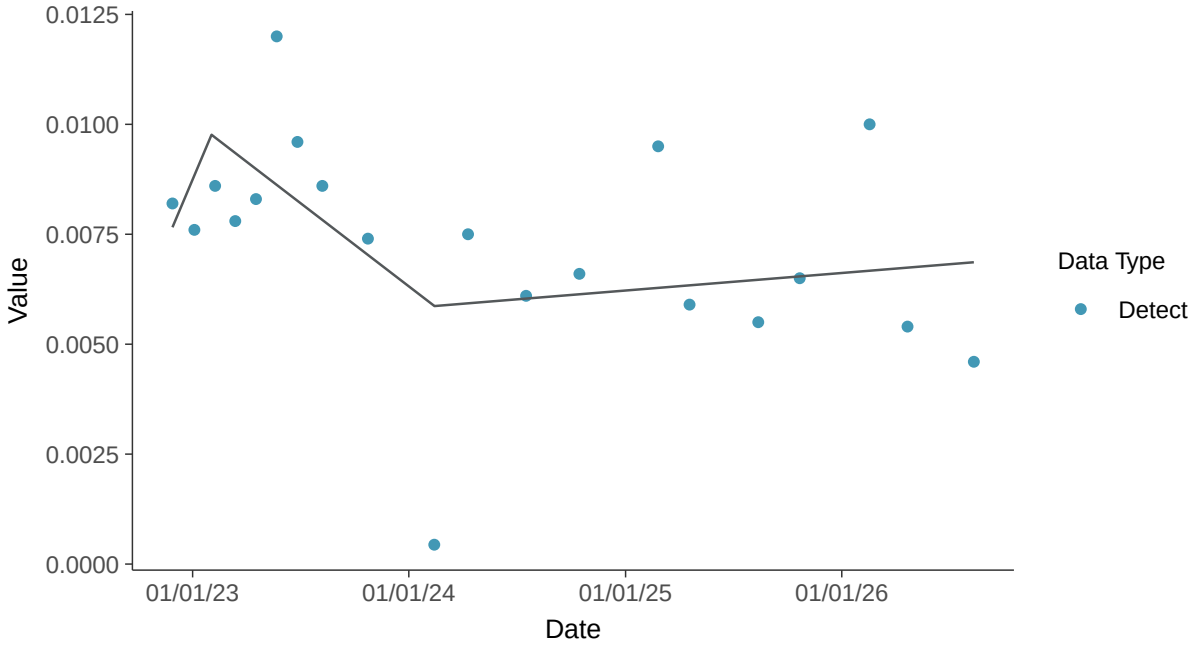
Trend Regression: Piecewise Linear-Linear

Arsenic, MW-02 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Arsenic, MW-02 (mg/L)

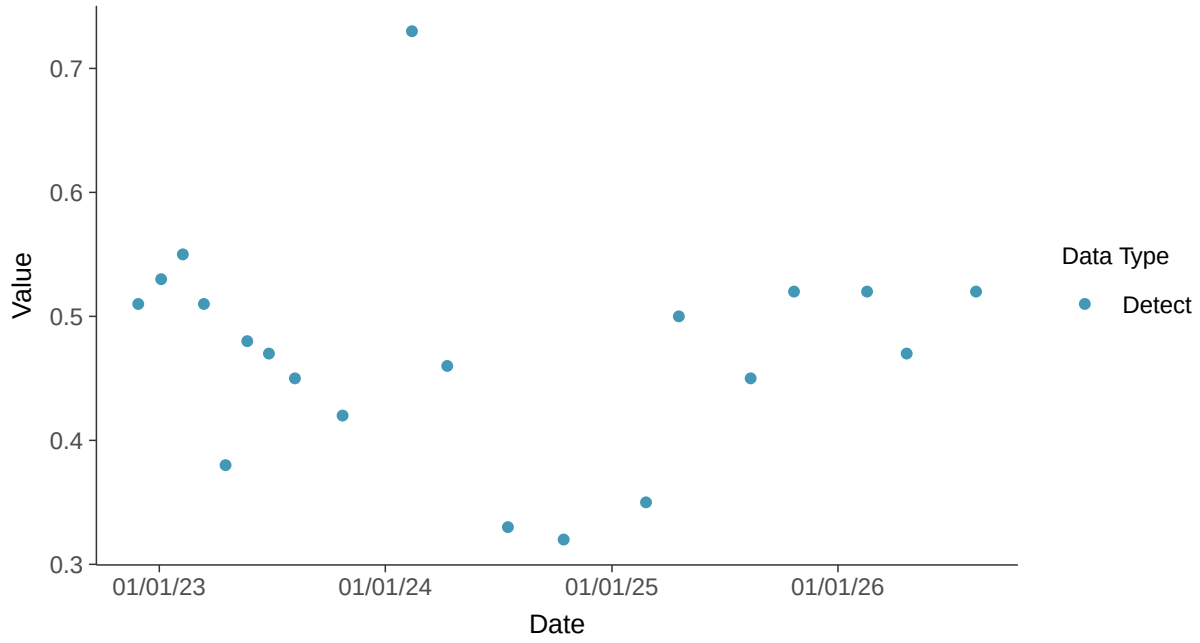


Appendix IV: Barium, MW-02

ID: 12_2_4_103

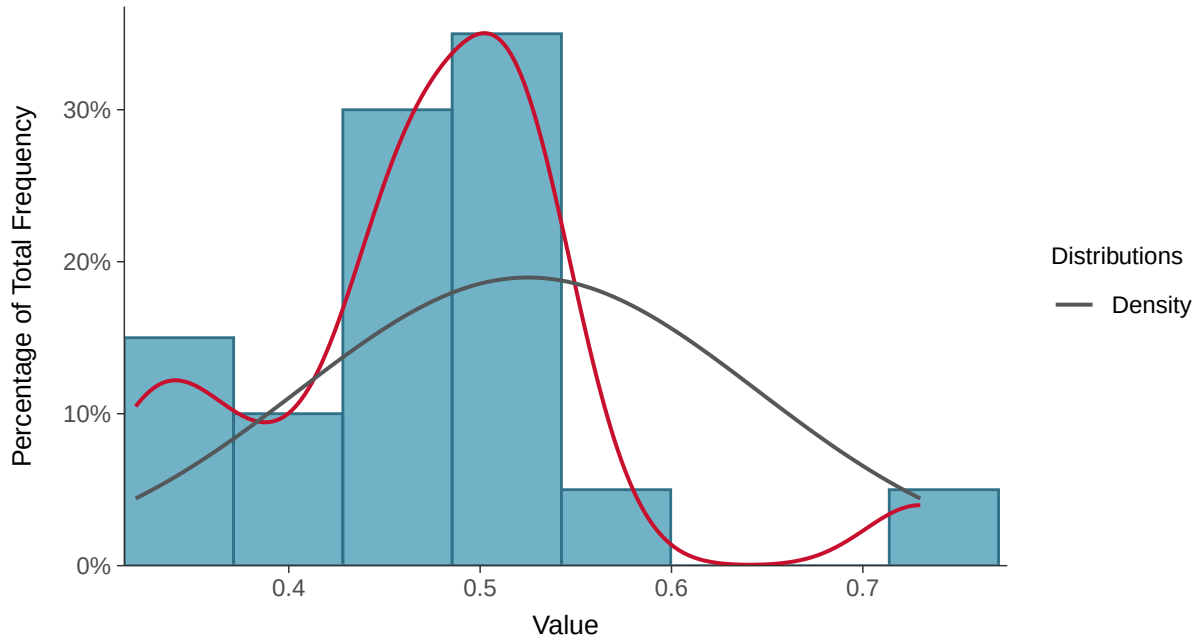
Scatter Plot

Barium, MW-02 (mg/L)



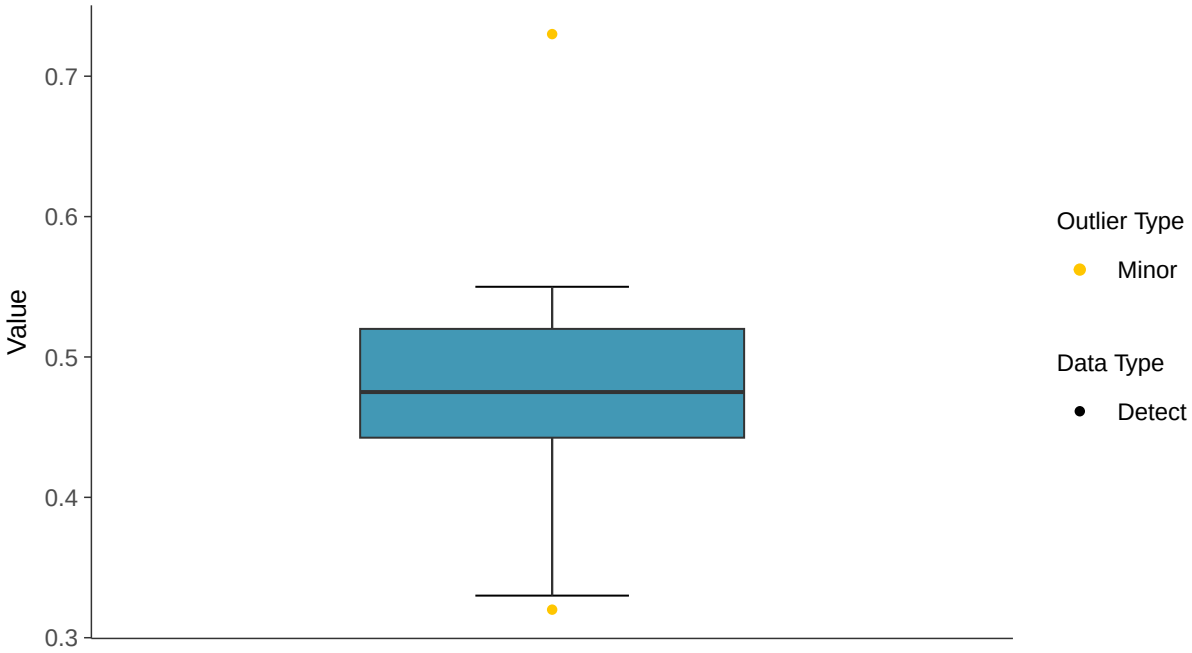
Histogram

Barium, MW-02 (mg/L)



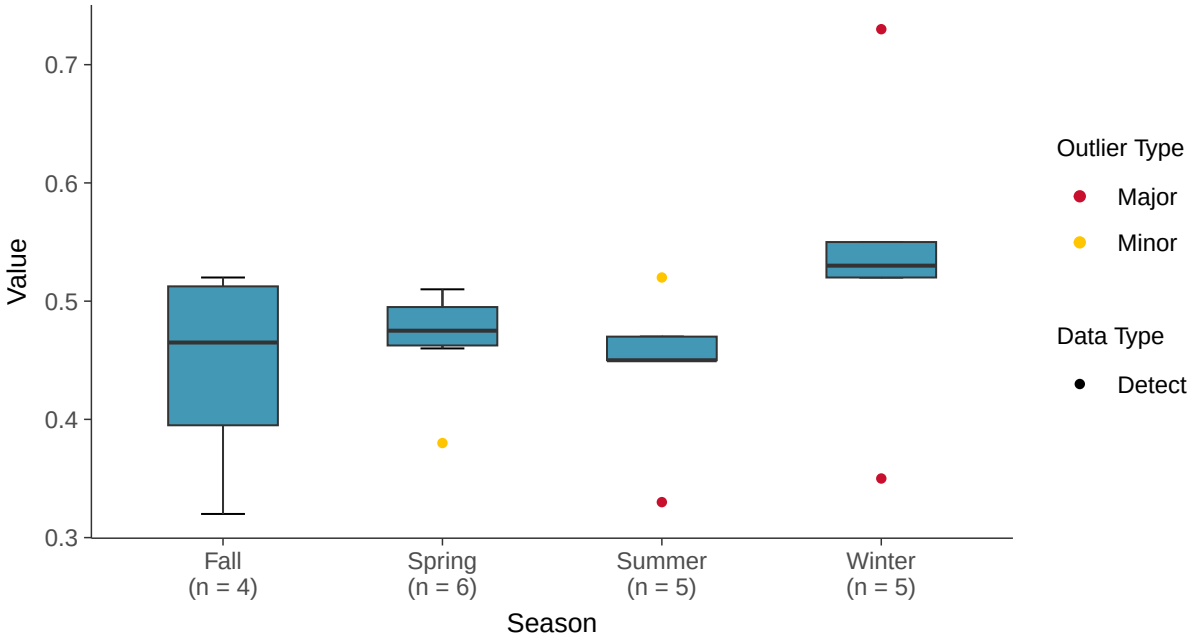
Boxplot

Barium, MW-02 (mg/L)



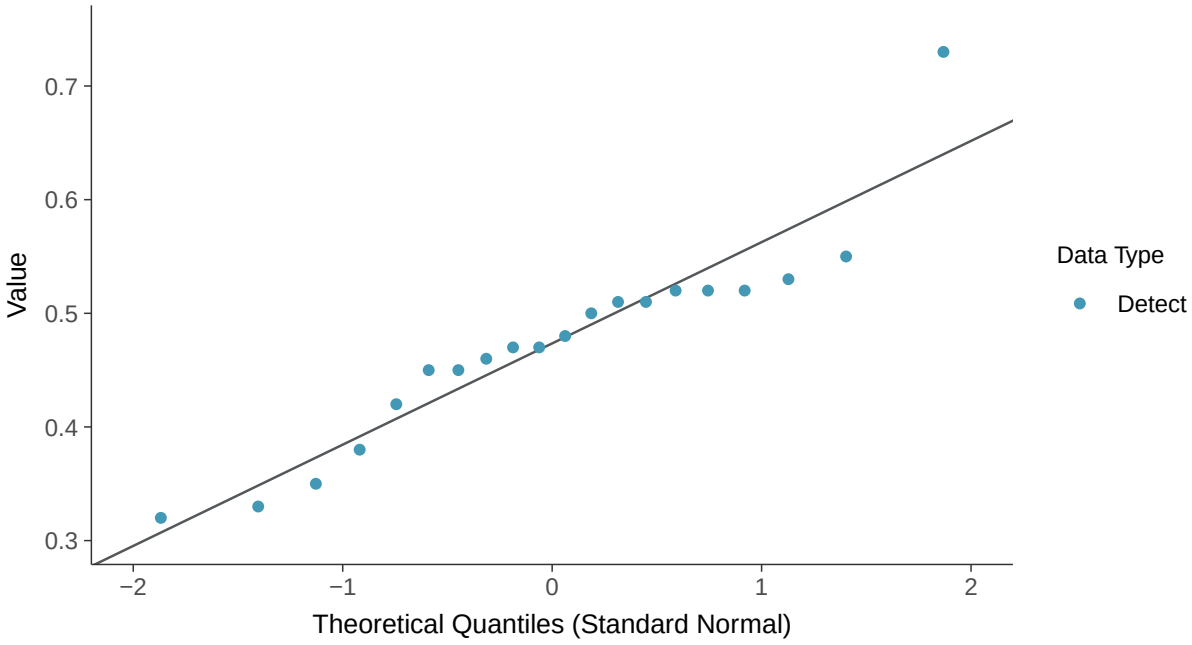
Boxplot by Season

Barium, MW-02 (mg/L)



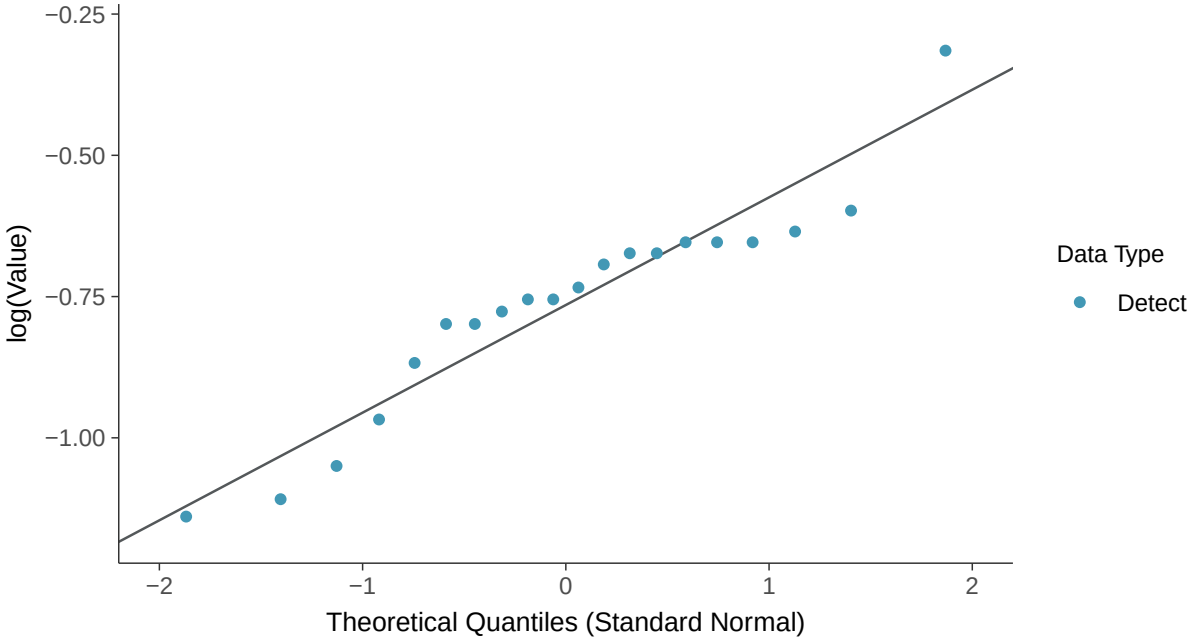
Normal Q-Q plot

Barium, MW-02 (mg/L)



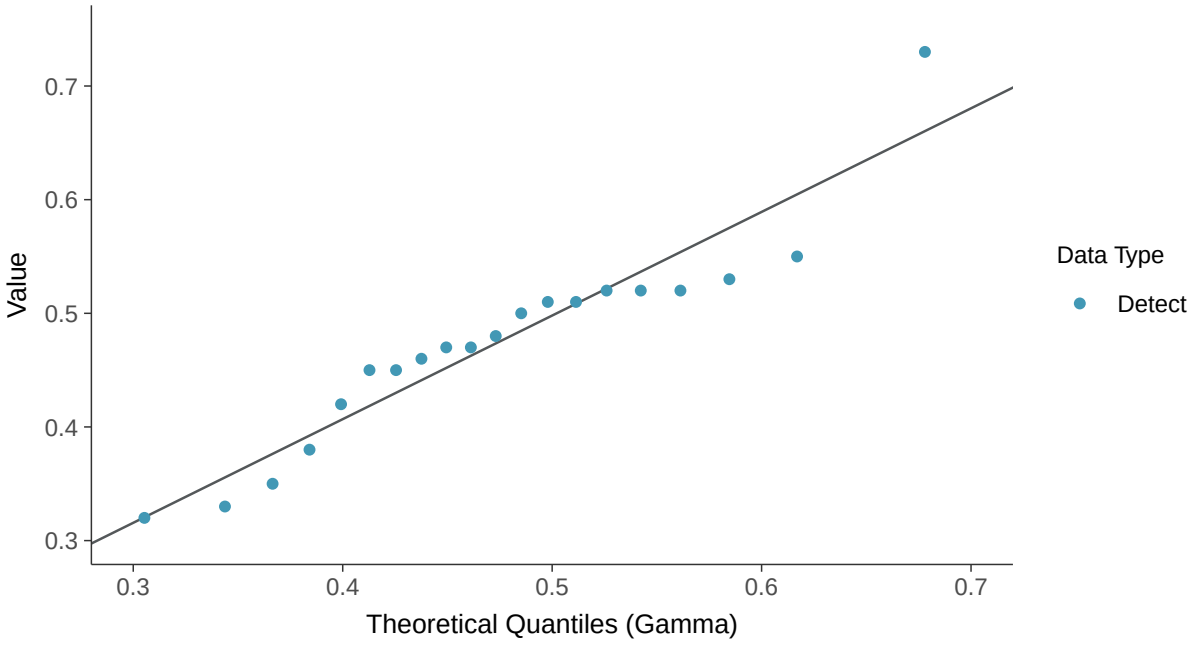
Lognormal Q-Q plot

Barium, MW-02 (mg/L)



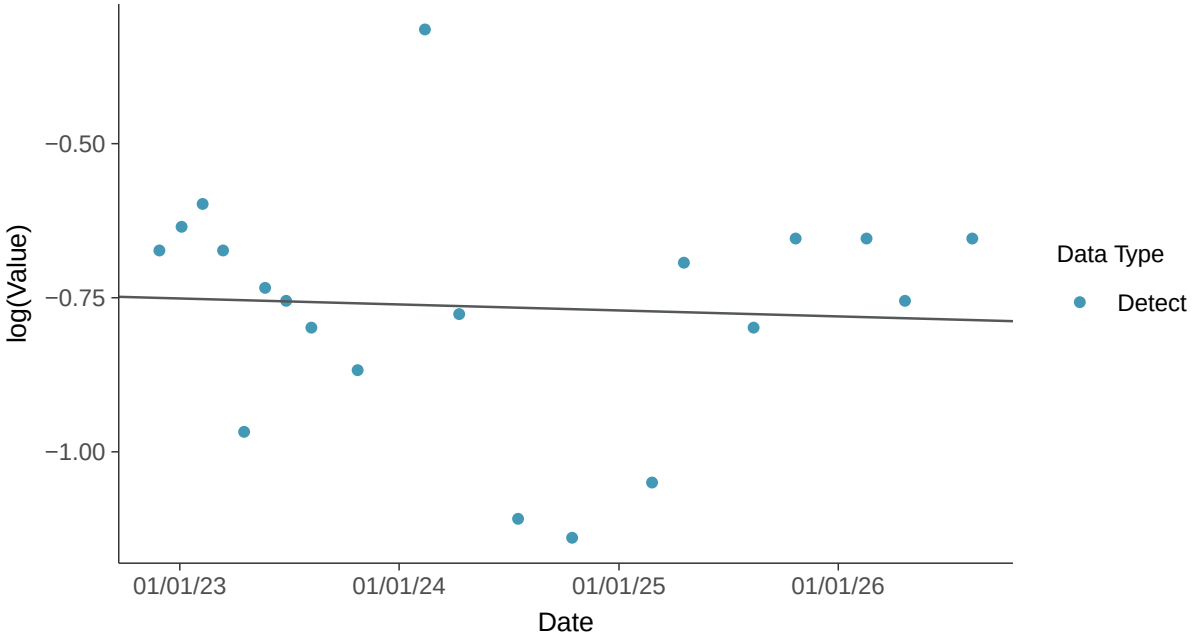
Gamma Q-Q plot

Barium, MW-02 (mg/L)



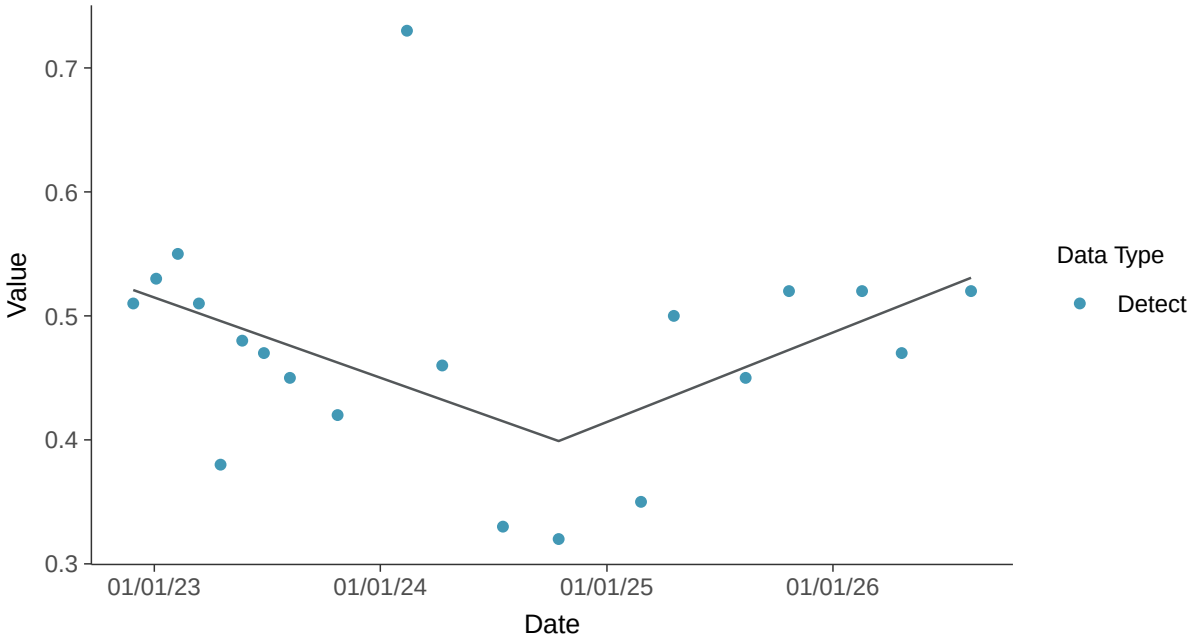
Trend Regression: Lognormal MLE

Barium, MW-02 (mg/L)



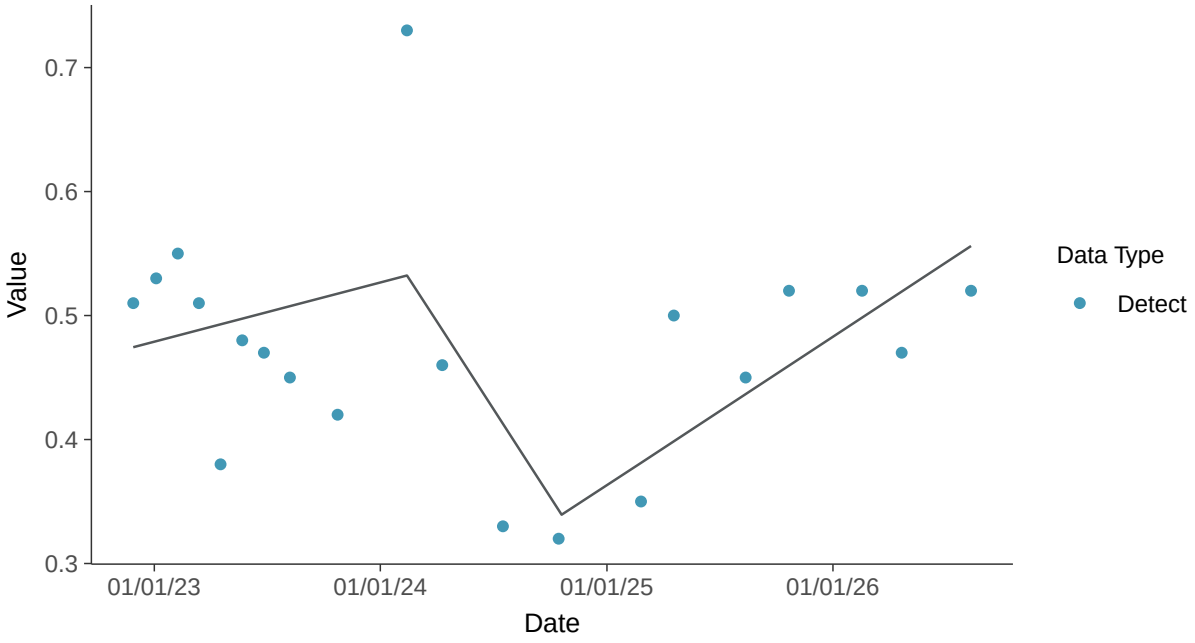
Trend Regression: Piecewise Linear-Linear

Barium, MW-02 (mg/L)



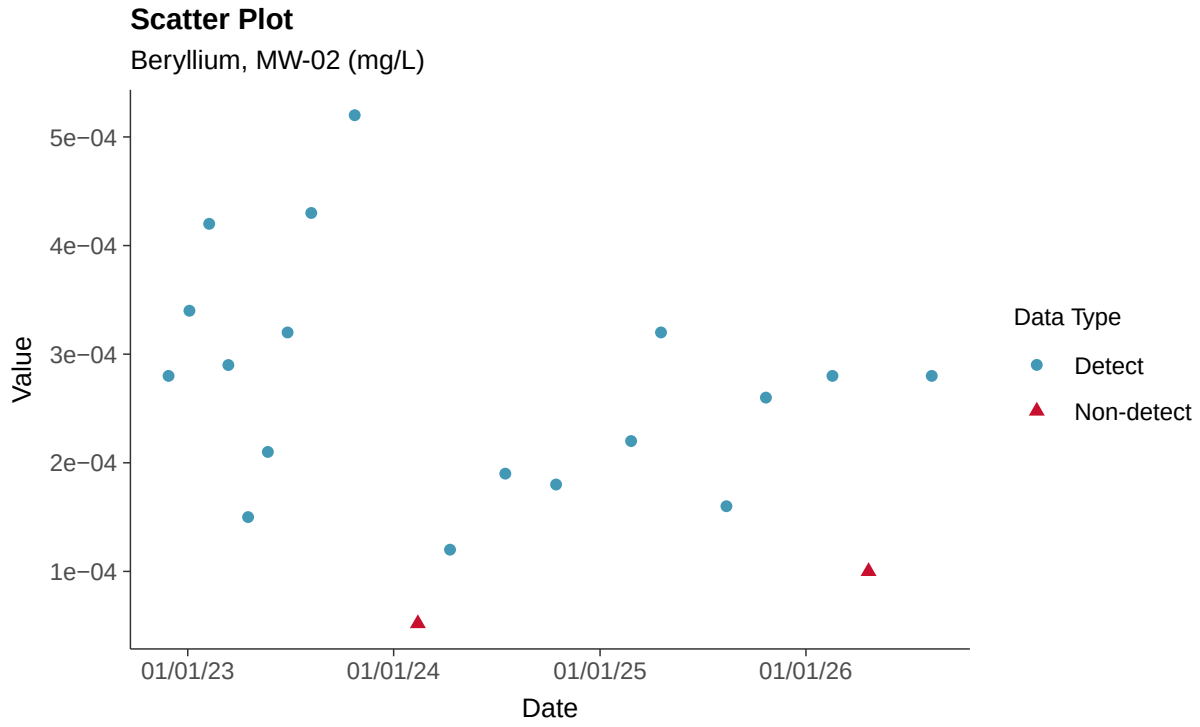
Trend Regression: Piecewise Linear-Linear-Linear

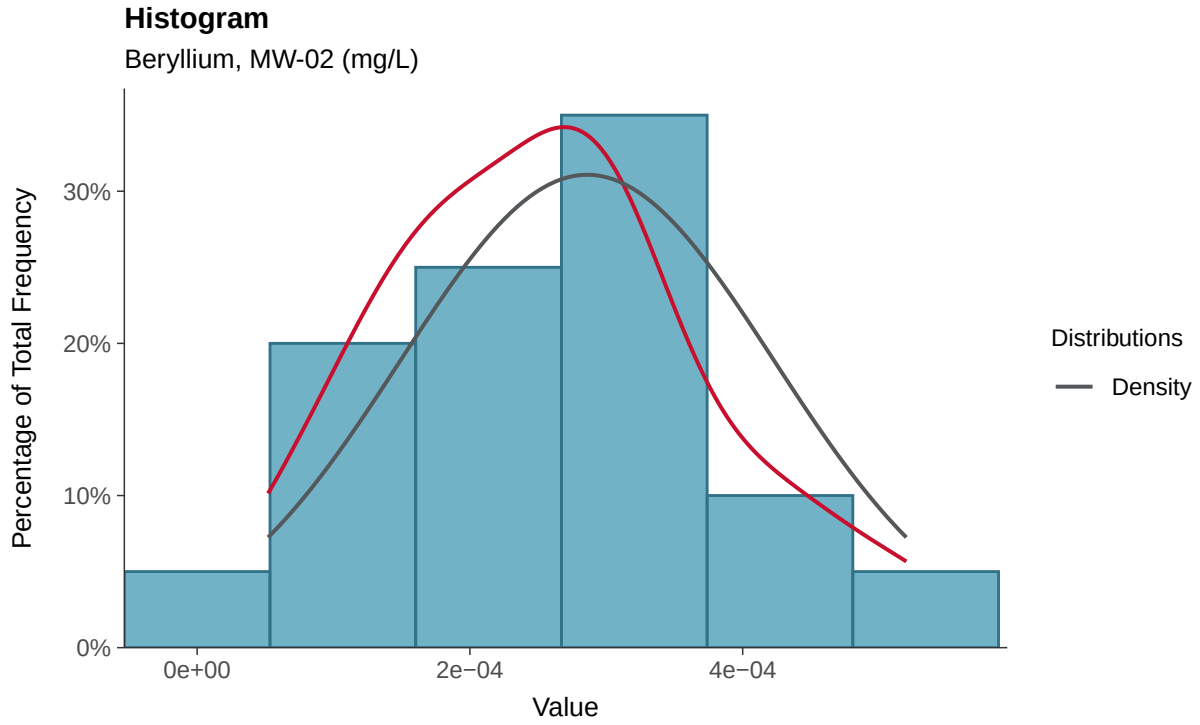
Barium, MW-02 (mg/L)



Appendix IV: Beryllium, MW-02

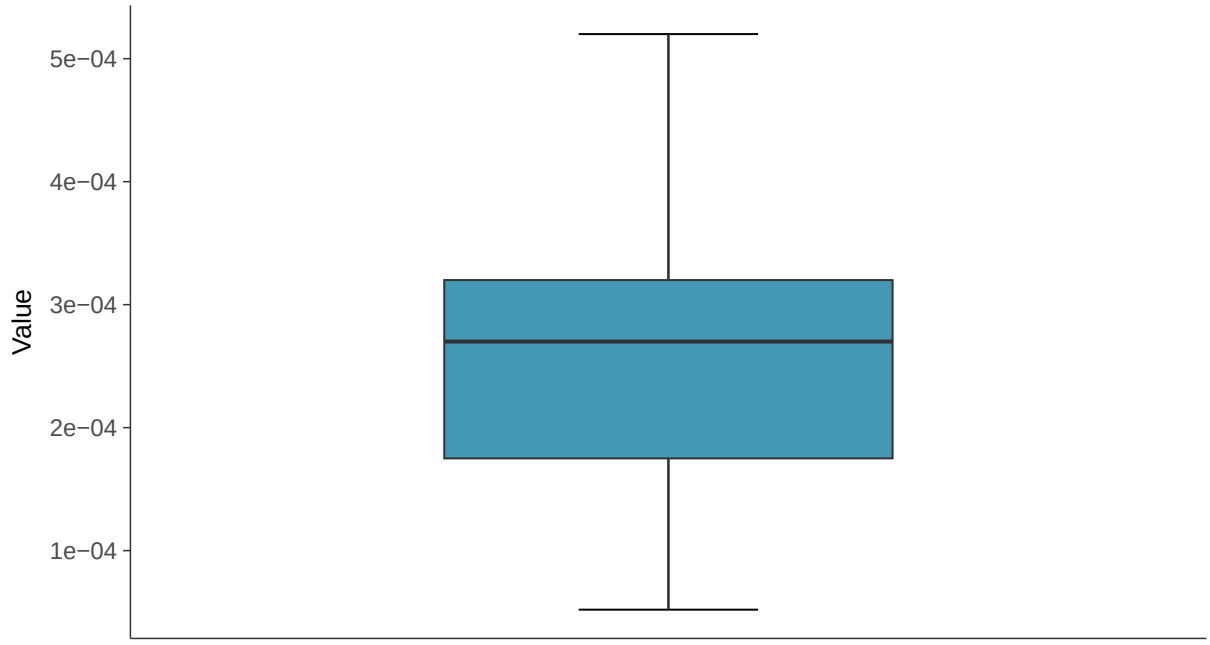
ID: 12_2_4_104





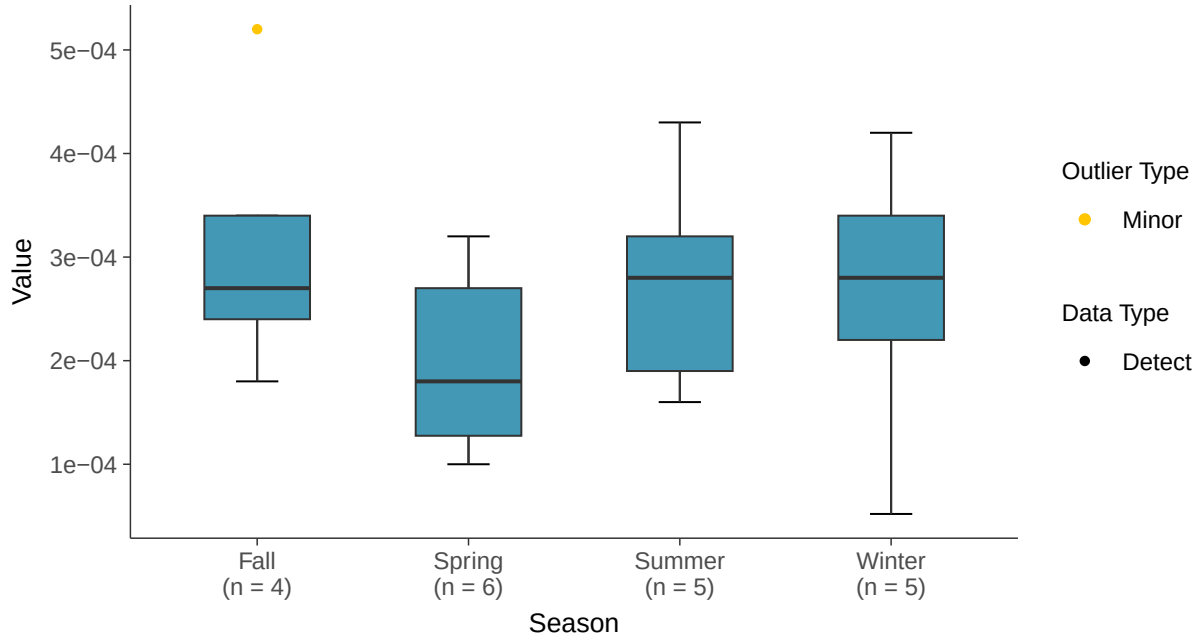
Boxplot

Beryllium, MW-02 (mg/L)



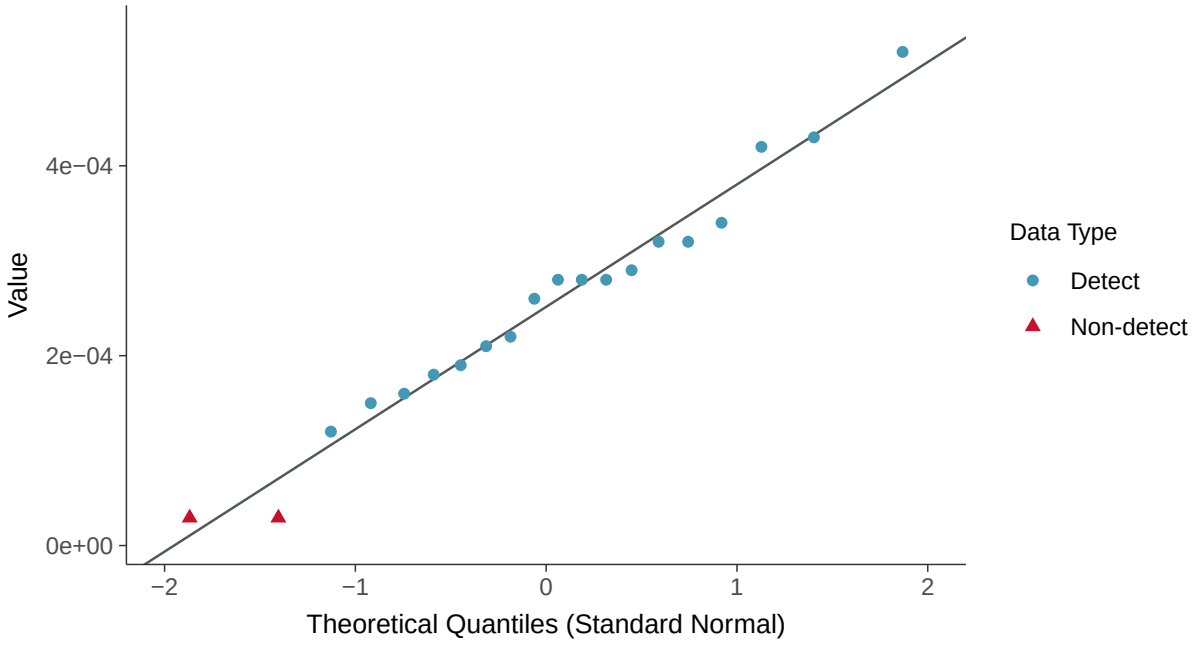
Boxplot by Season

Beryllium, MW-02 (mg/L)



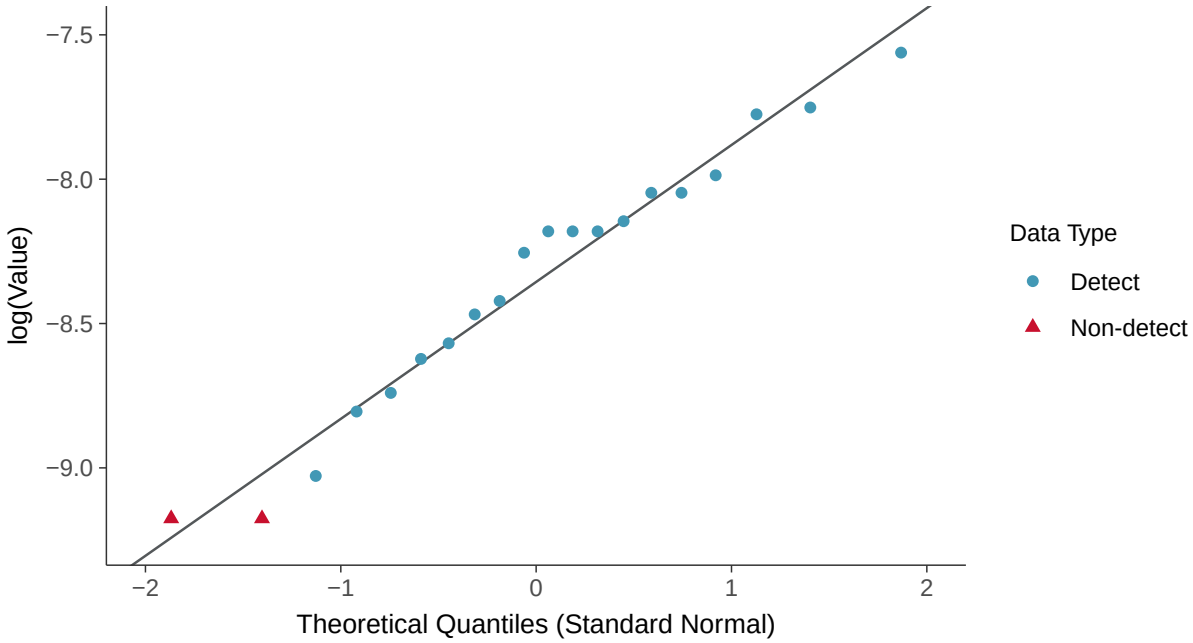
Normal Q-Q plot using ROS Imputed Estimates

Beryllium, MW-02 (mg/L)



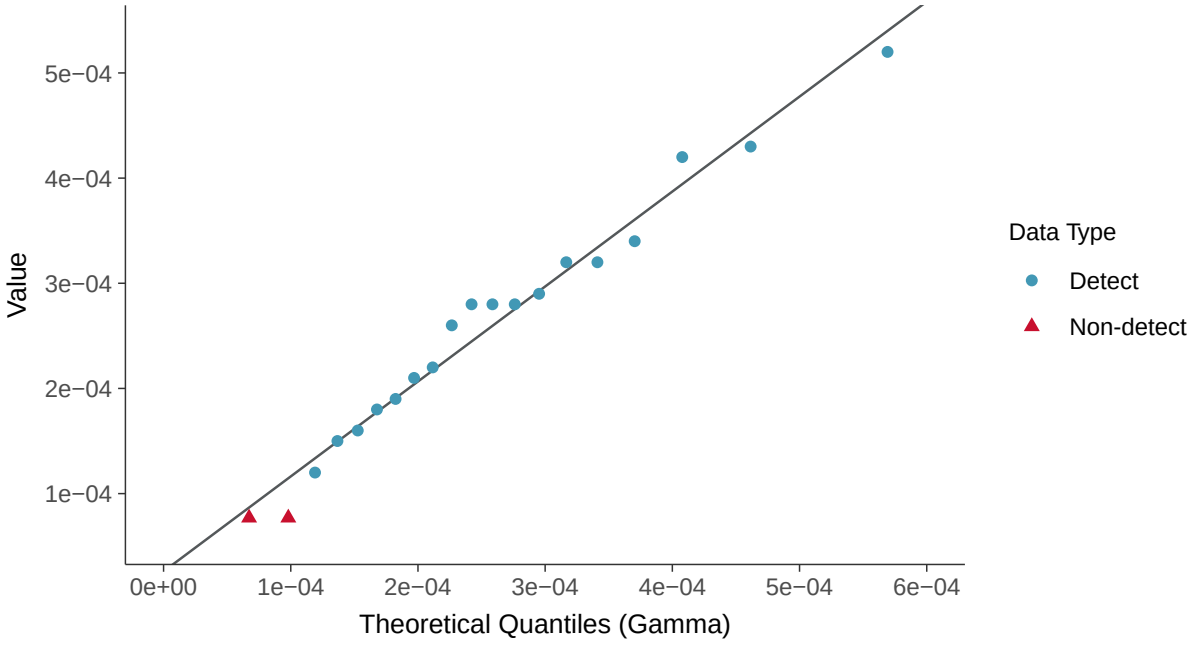
Lognormal Q-Q plot using ROS Imputed Estimates

Beryllium, MW-02 (mg/L)



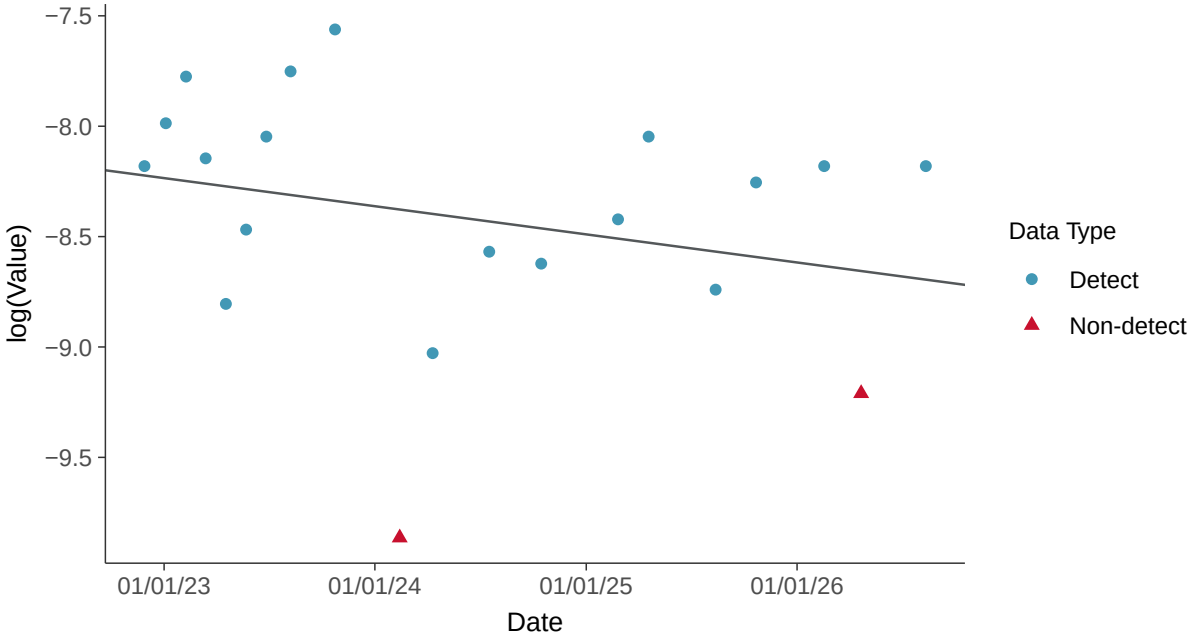
Gamma Q-Q plot using ROS Imputed Estimates

Beryllium, MW-02 (mg/L)



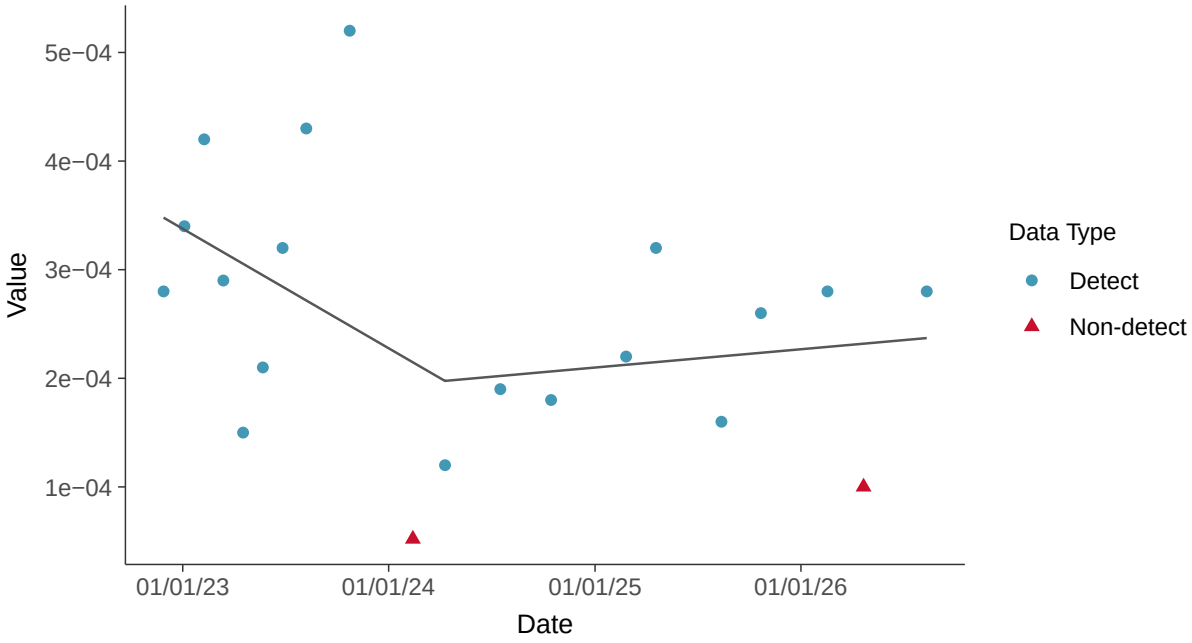
Trend Regression: Lognormal MLE

Beryllium, MW-02 (mg/L)



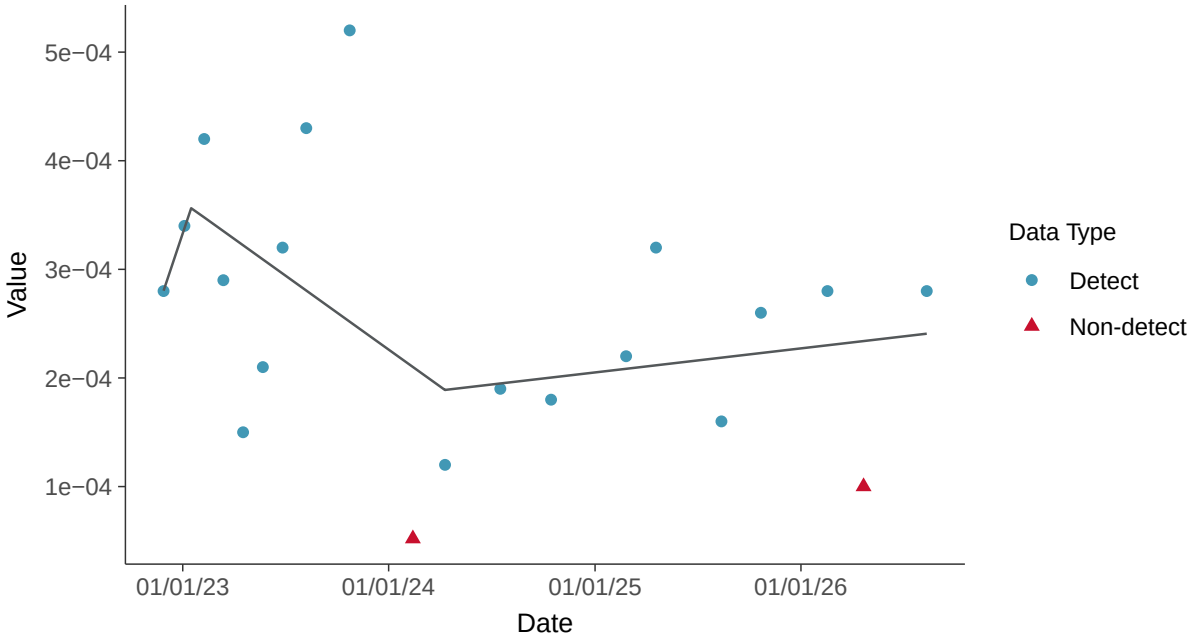
Trend Regression: Piecewise Linear-Linear

Beryllium, MW-02 (mg/L)



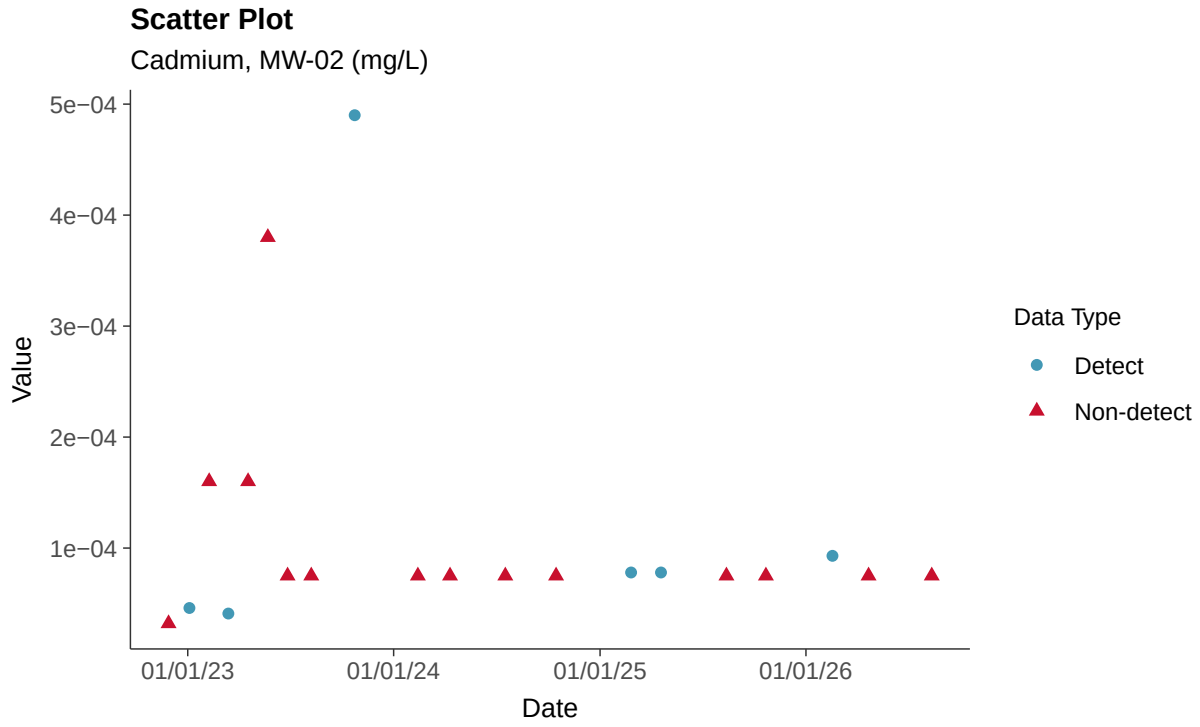
Trend Regression: Piecewise Linear-Linear-Linear

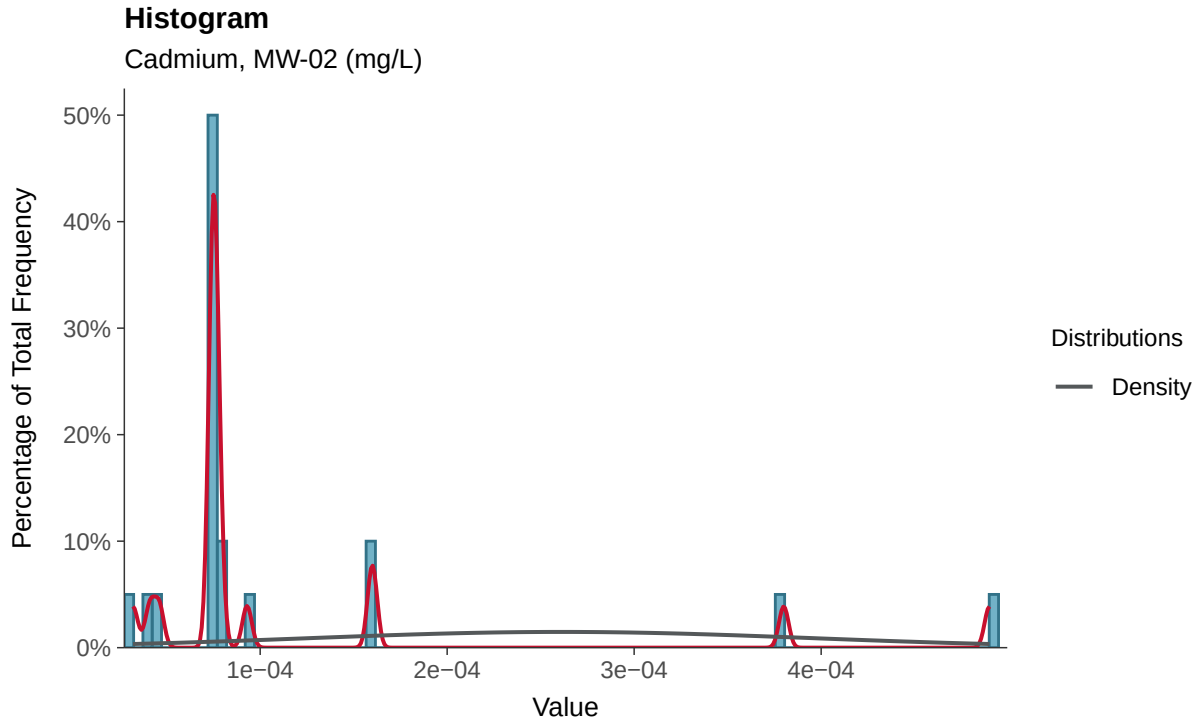
Beryllium, MW-02 (mg/L)



Appendix IV: Cadmium, MW-02

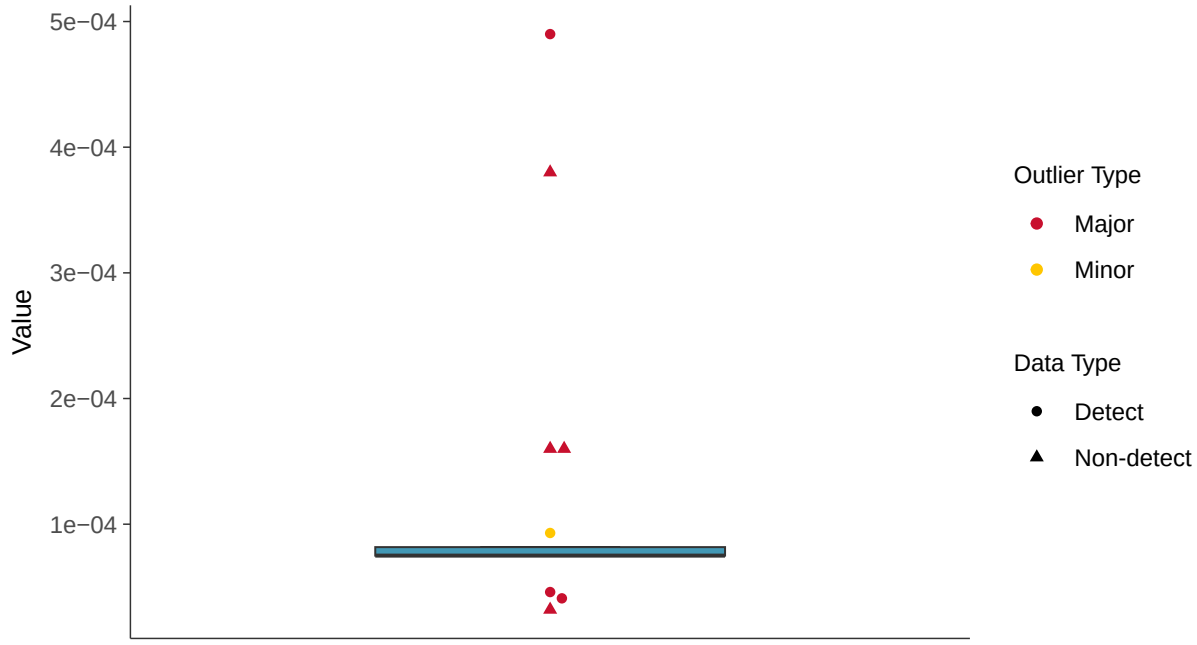
ID: 12_2_4_106





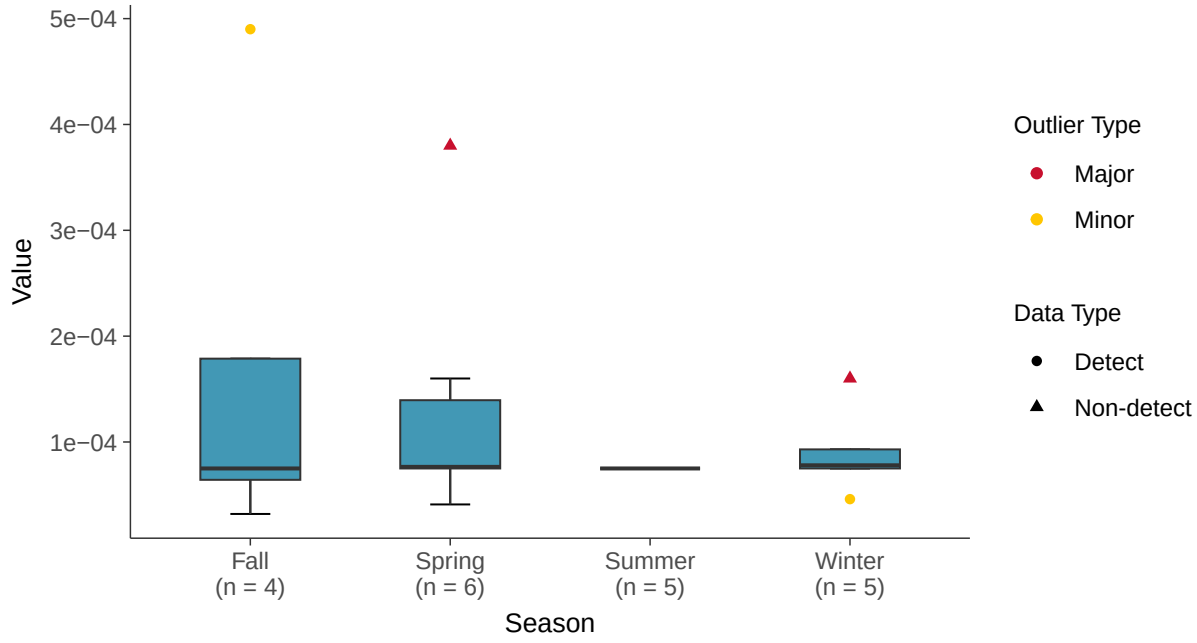
Boxplot

Cadmium, MW-02 (mg/L)



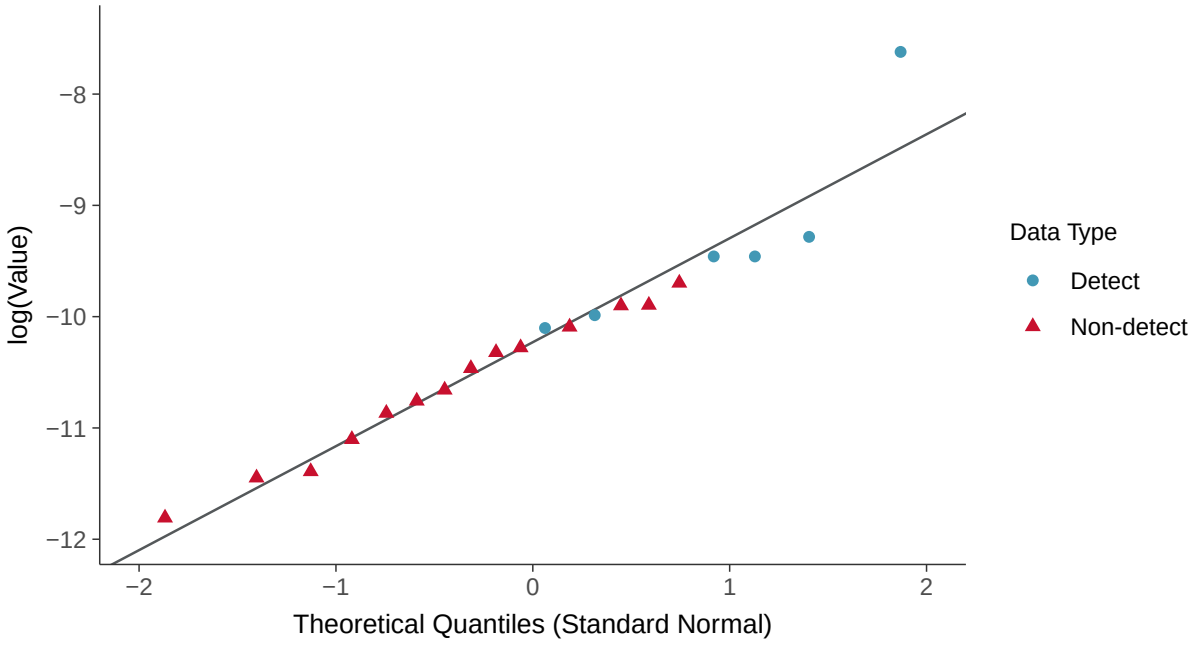
Boxplot by Season

Cadmium, MW-02 (mg/L)



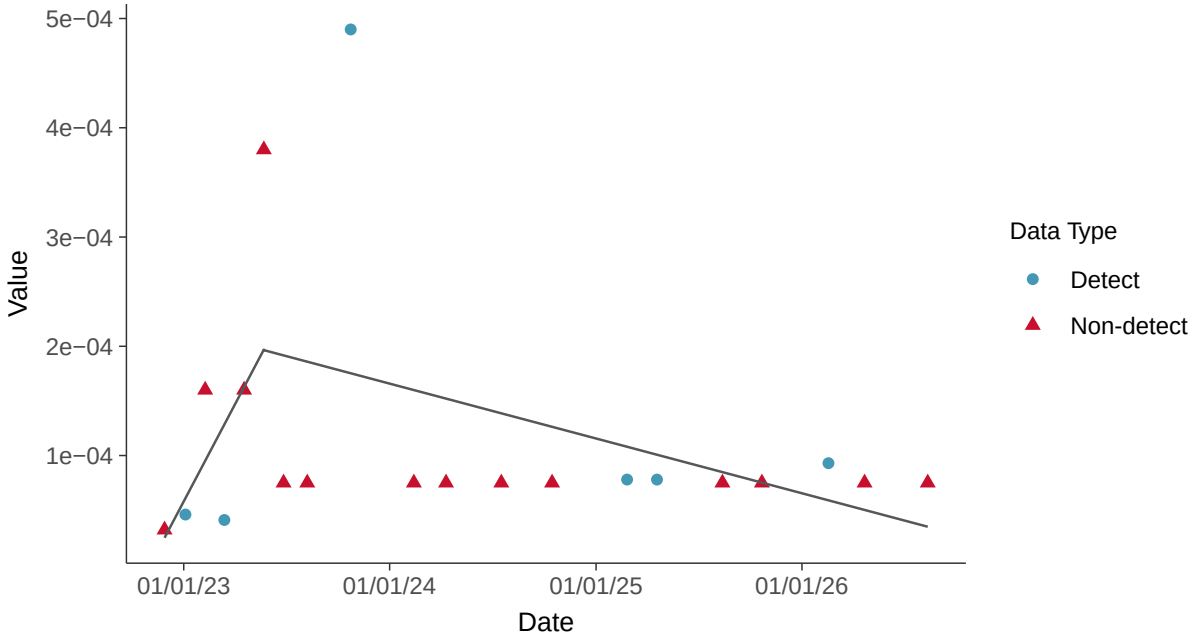
Lognormal Q-Q plot using ROS Imputed Estimates

Cadmium, MW-02 (mg/L)



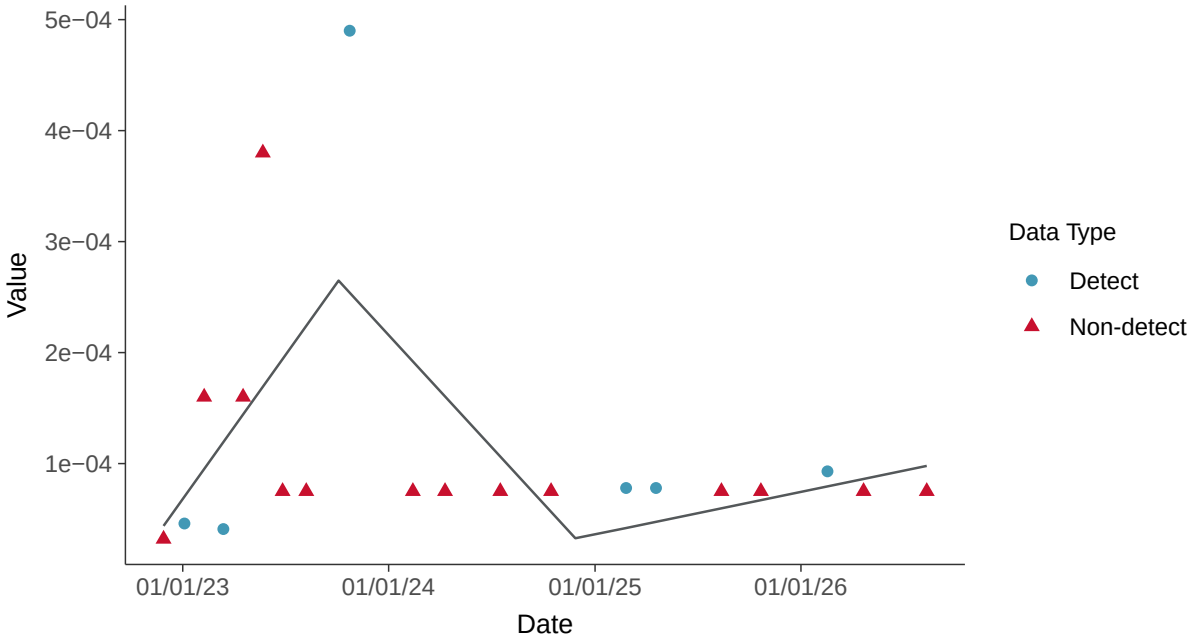
Trend Regression: Piecewise Linear-Linear

Cadmium, MW-02 (mg/L)



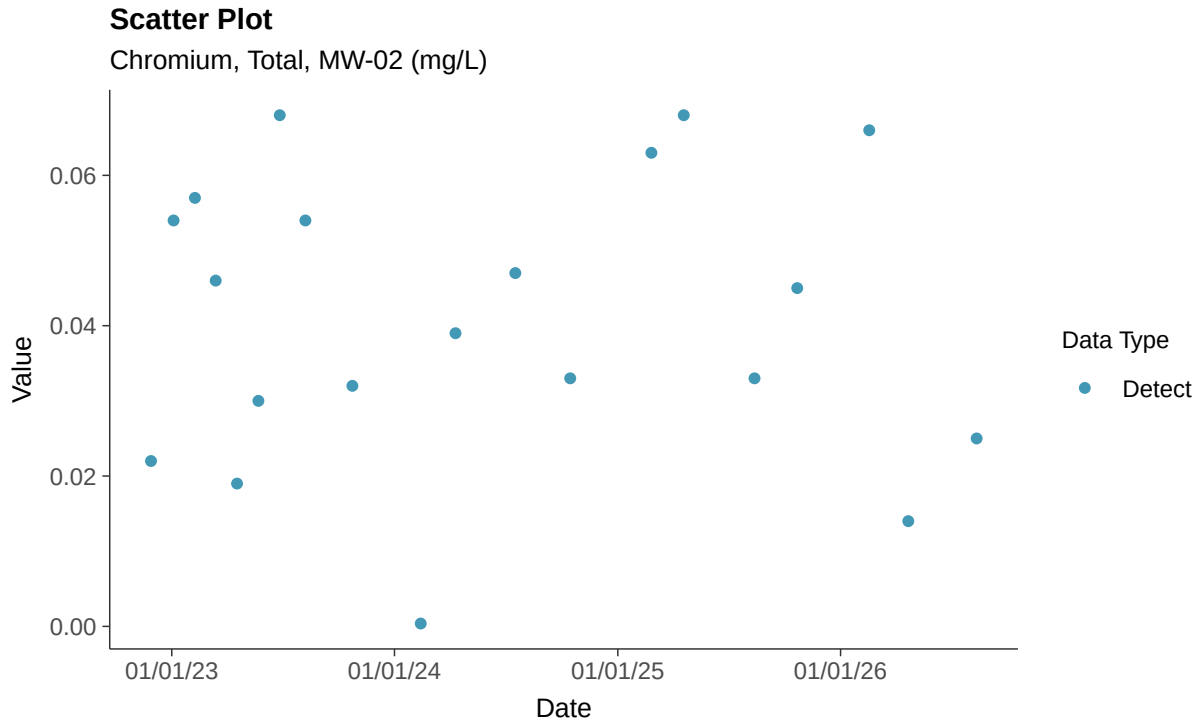
Trend Regression: Piecewise Linear-Linear-Linear

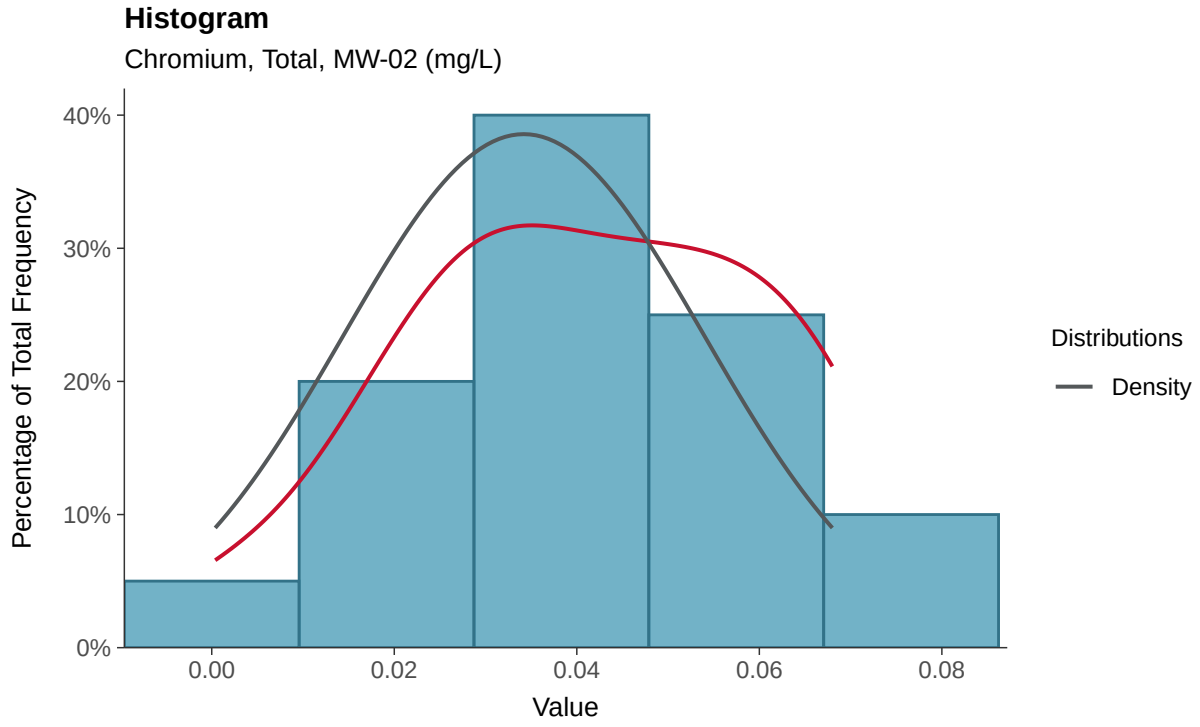
Cadmium, MW-02 (mg/L)



Appendix IV: Chromium, Total, MW-02

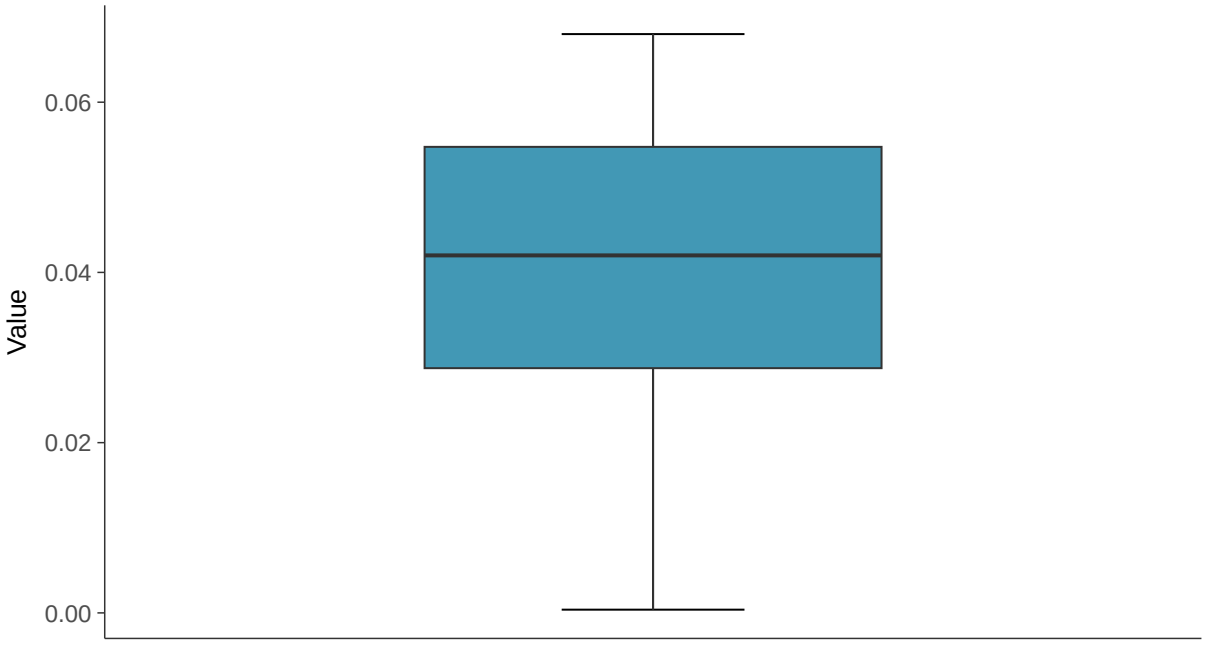
ID: 12_2_4_109





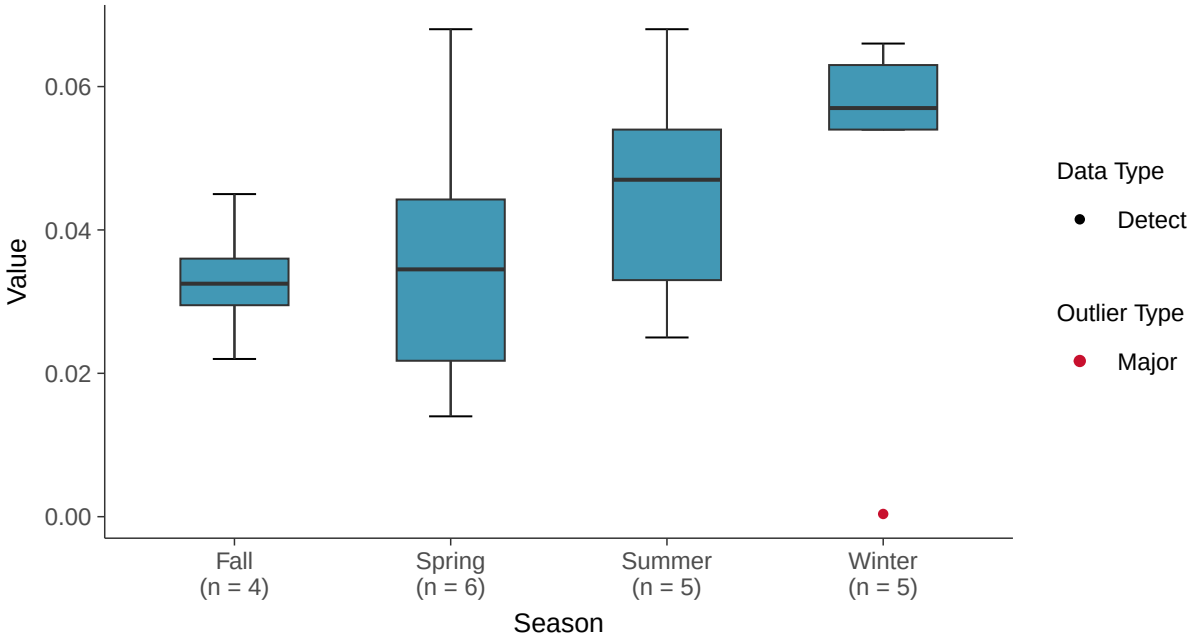
Boxplot

Chromium, Total, MW-02 (mg/L)



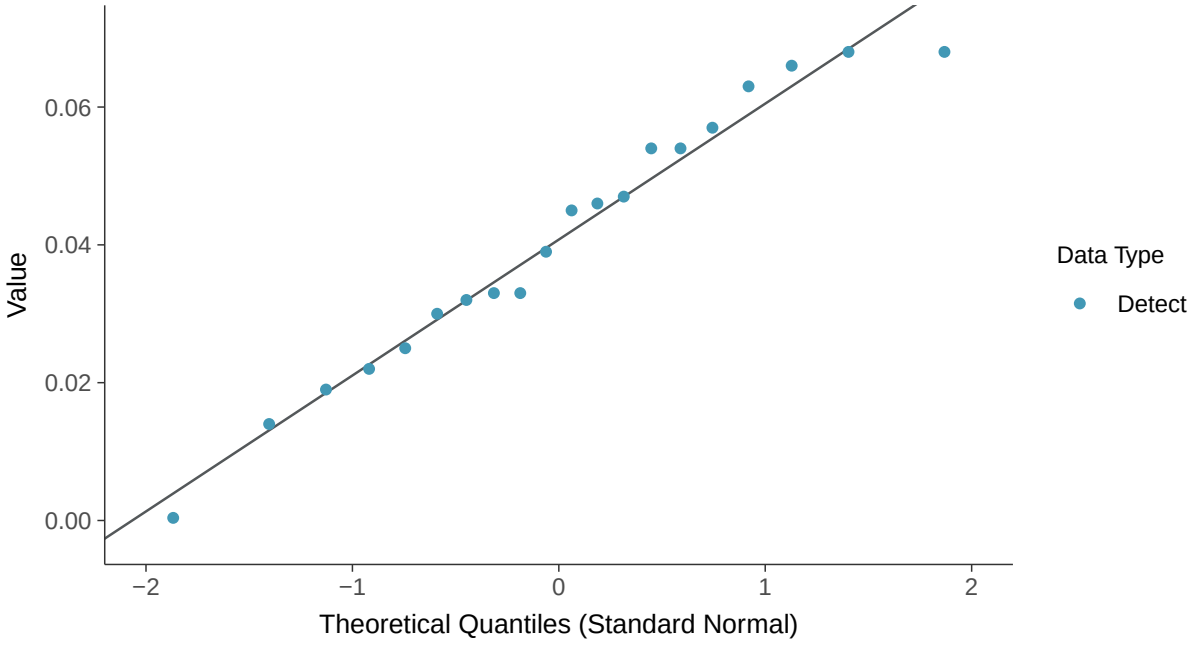
Boxplot by Season

Chromium, Total, MW-02 (mg/L)



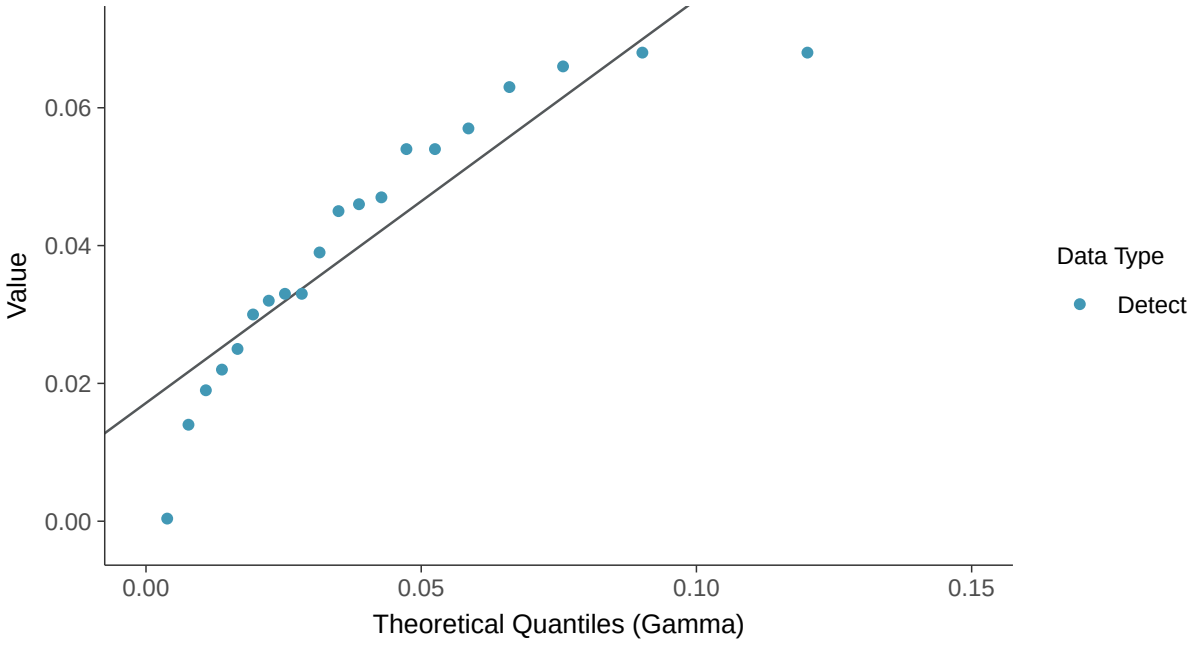
Normal Q-Q plot

Chromium, Total, MW-02 (mg/L)



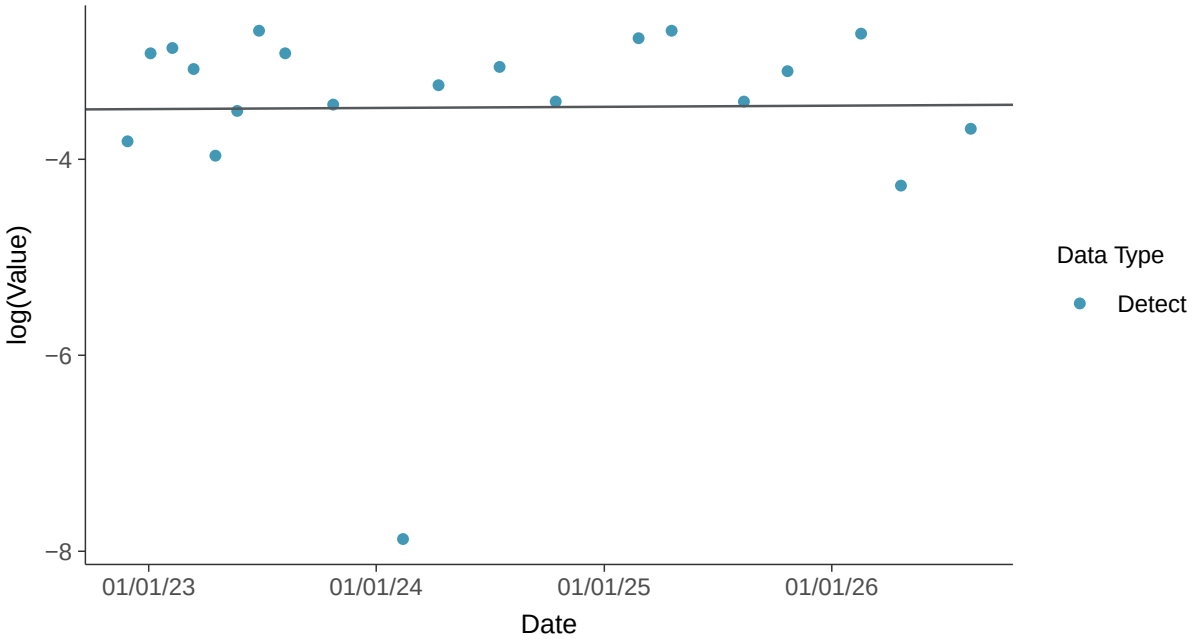
Gamma Q-Q plot

Chromium, Total, MW-02 (mg/L)



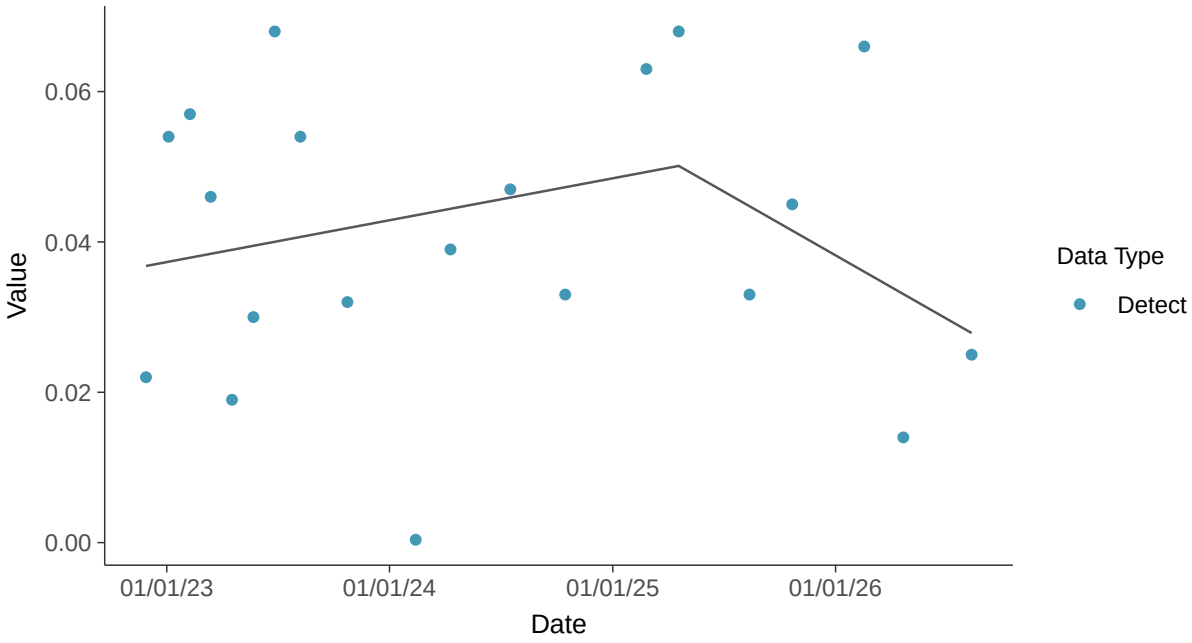
Trend Regression: Lognormal MLE

Chromium, Total, MW-02 (mg/L)



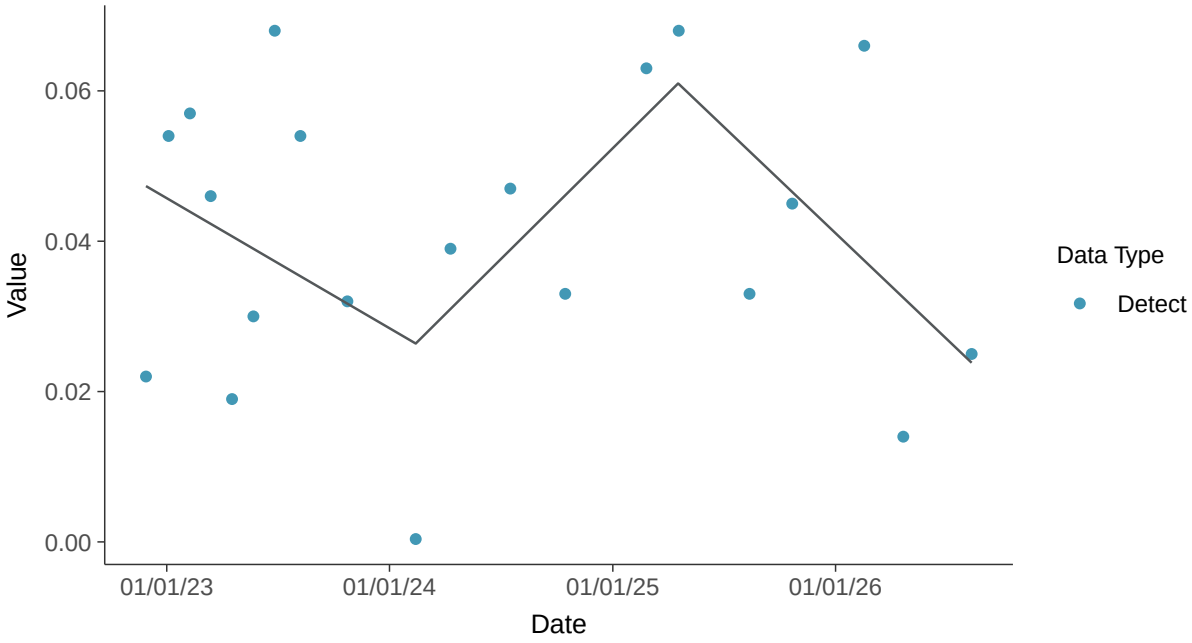
Trend Regression: Piecewise Linear-Linear

Chromium, Total, MW-02 (mg/L)



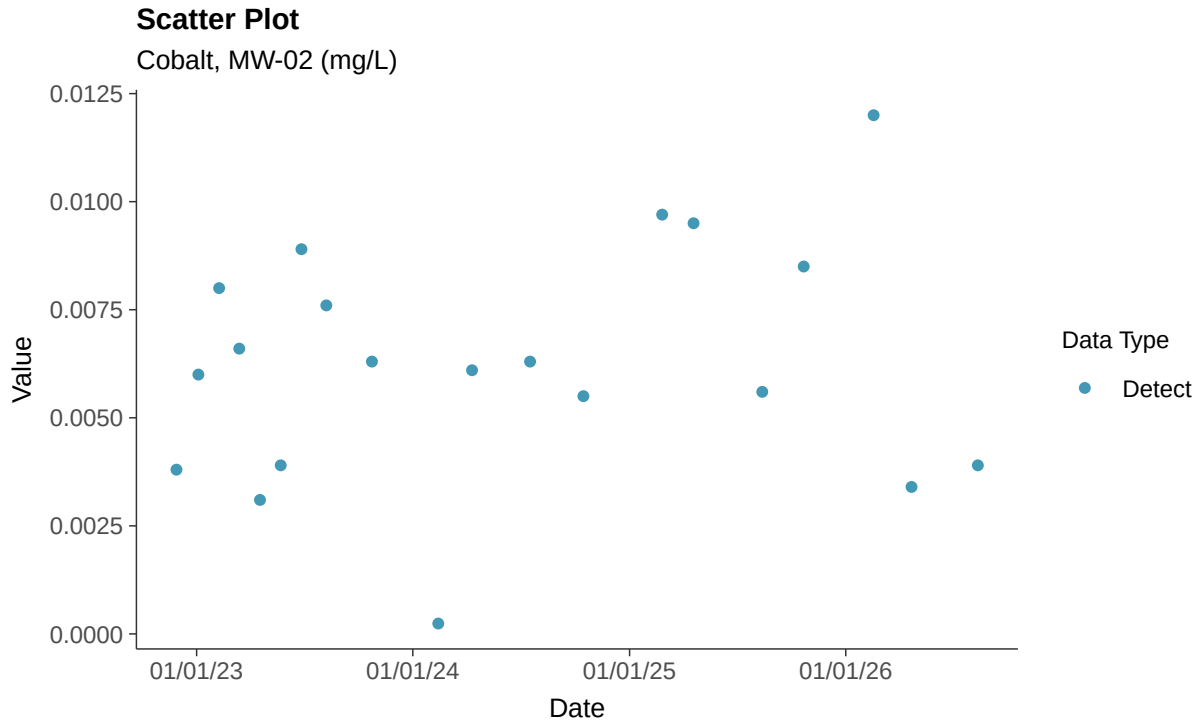
Trend Regression: Piecewise Linear-Linear-Linear

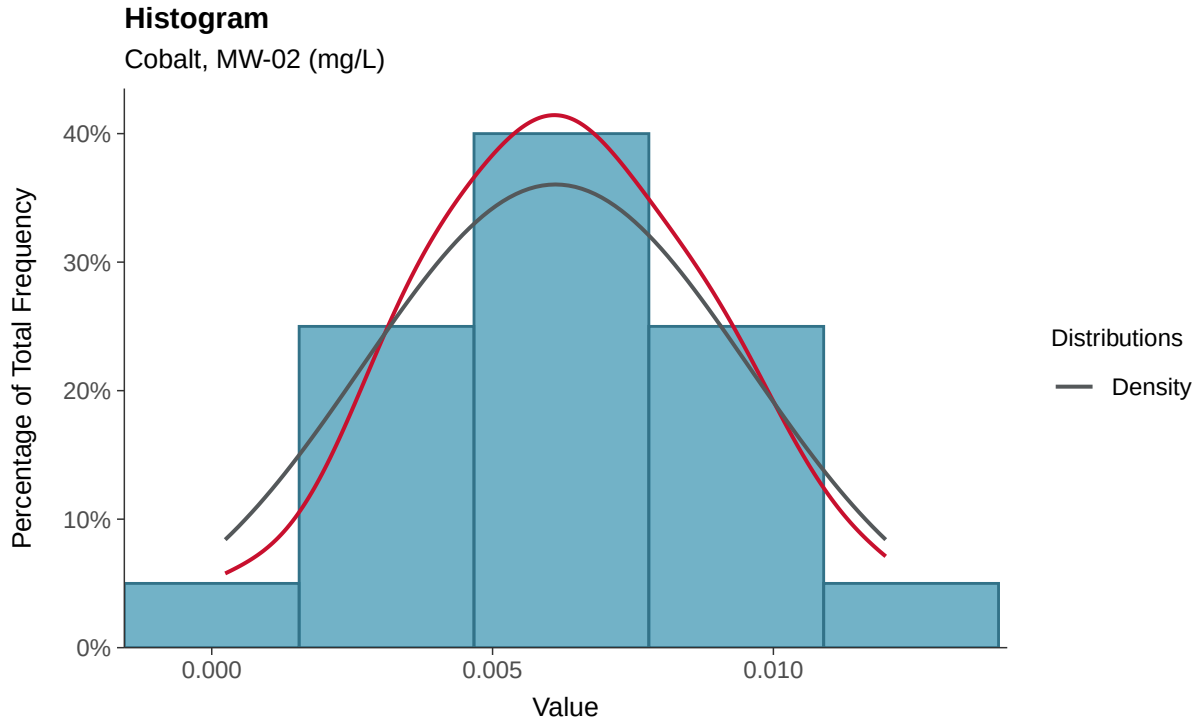
Chromium, Total, MW-02 (mg/L)



Appendix IV: Cobalt, MW-02

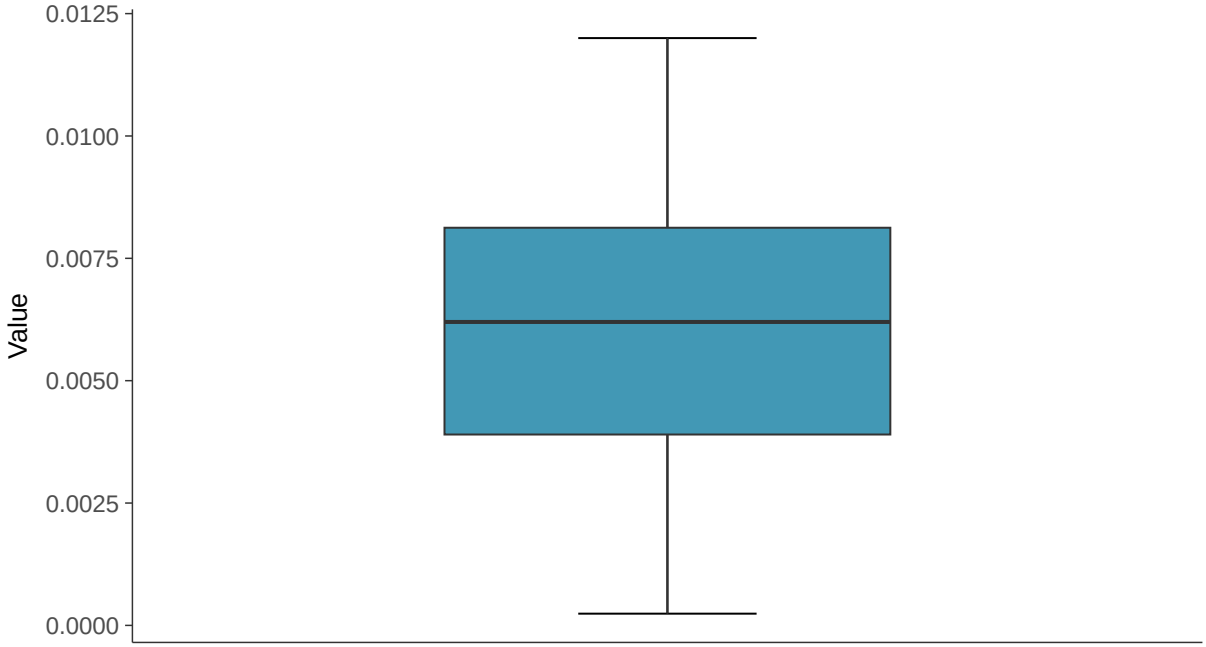
ID: 12_2_4_110





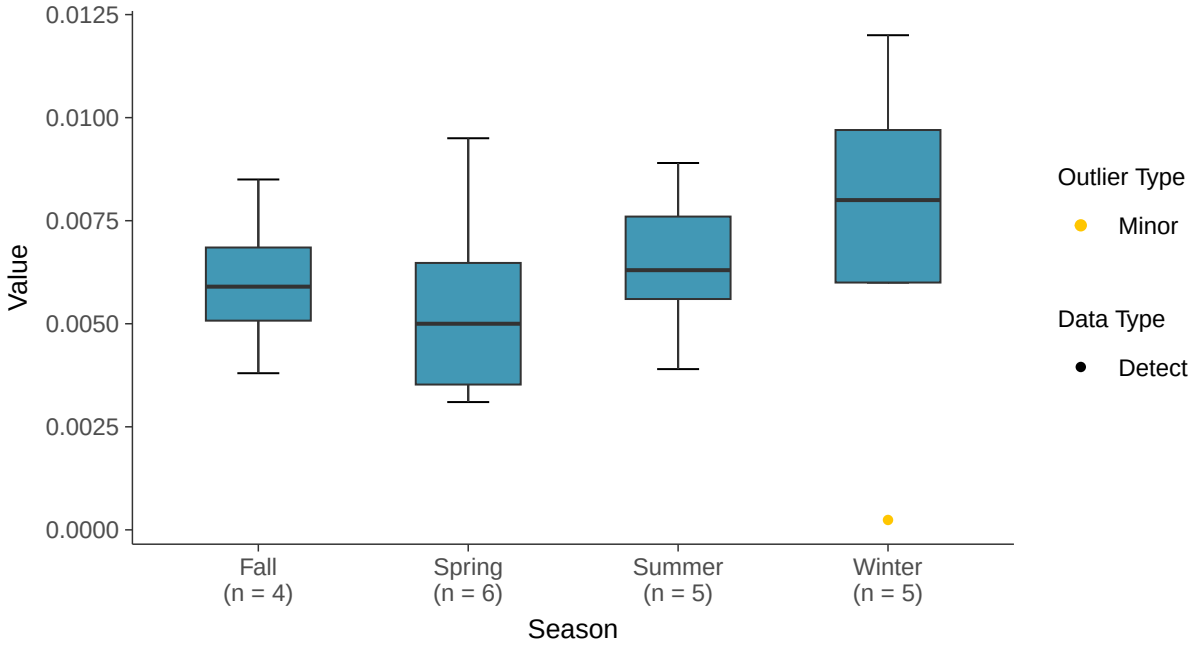
Boxplot

Cobalt, MW-02 (mg/L)



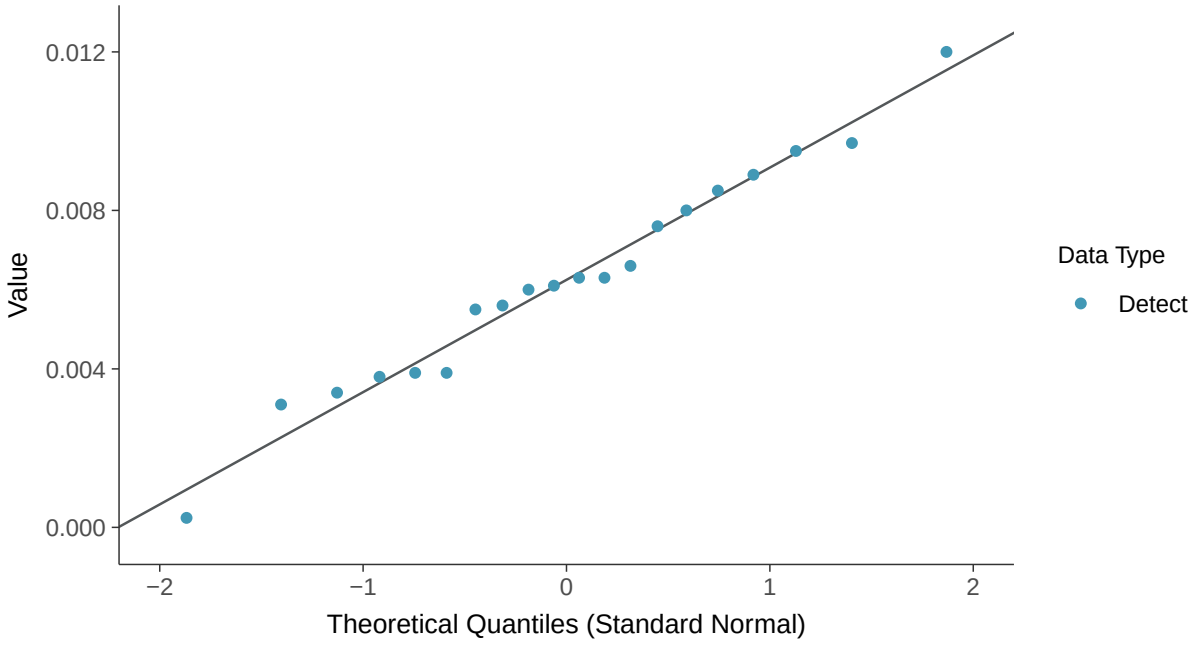
Boxplot by Season

Cobalt, MW-02 (mg/L)



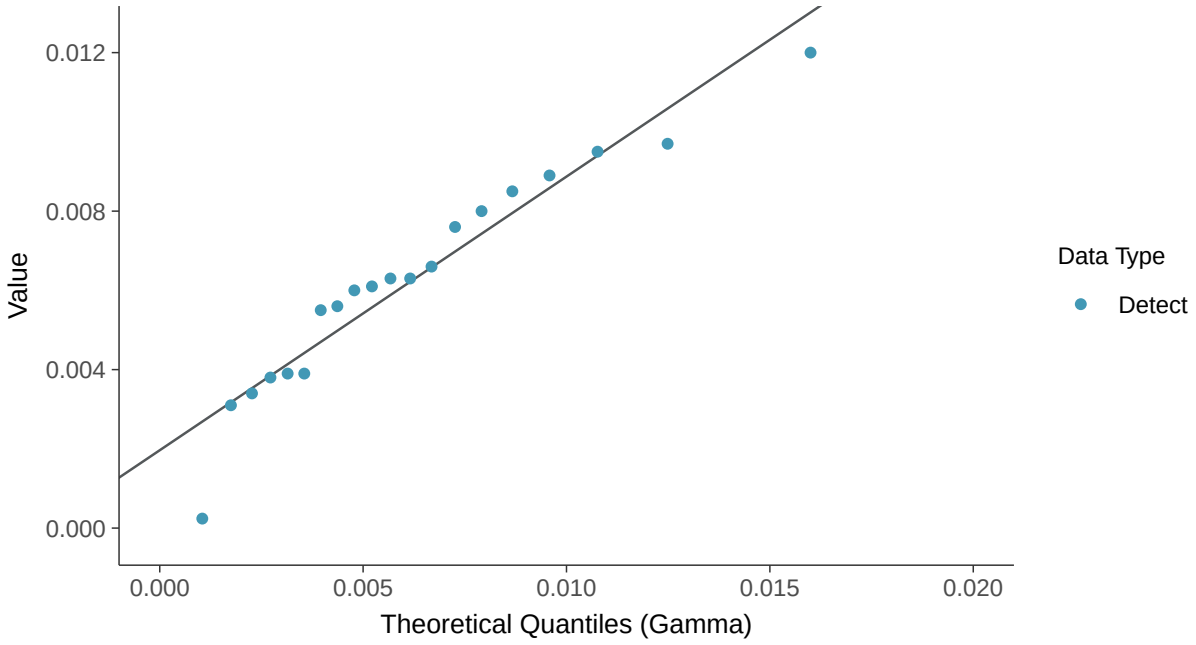
Normal Q-Q plot

Cobalt, MW-02 (mg/L)



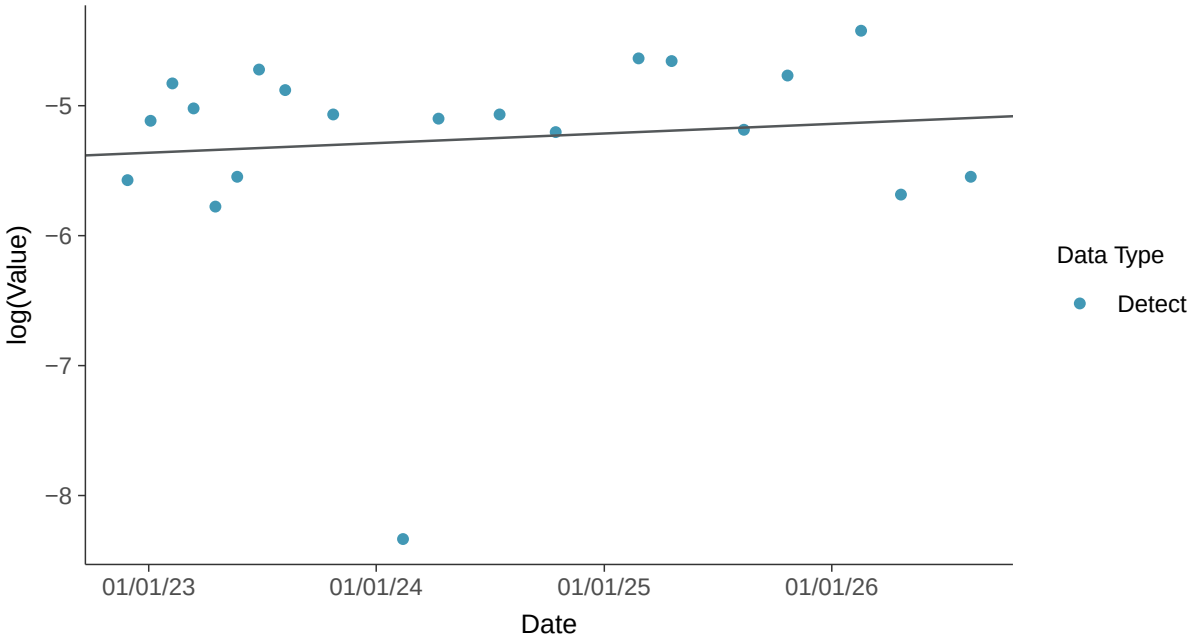
Gamma Q-Q plot

Cobalt, MW-02 (mg/L)



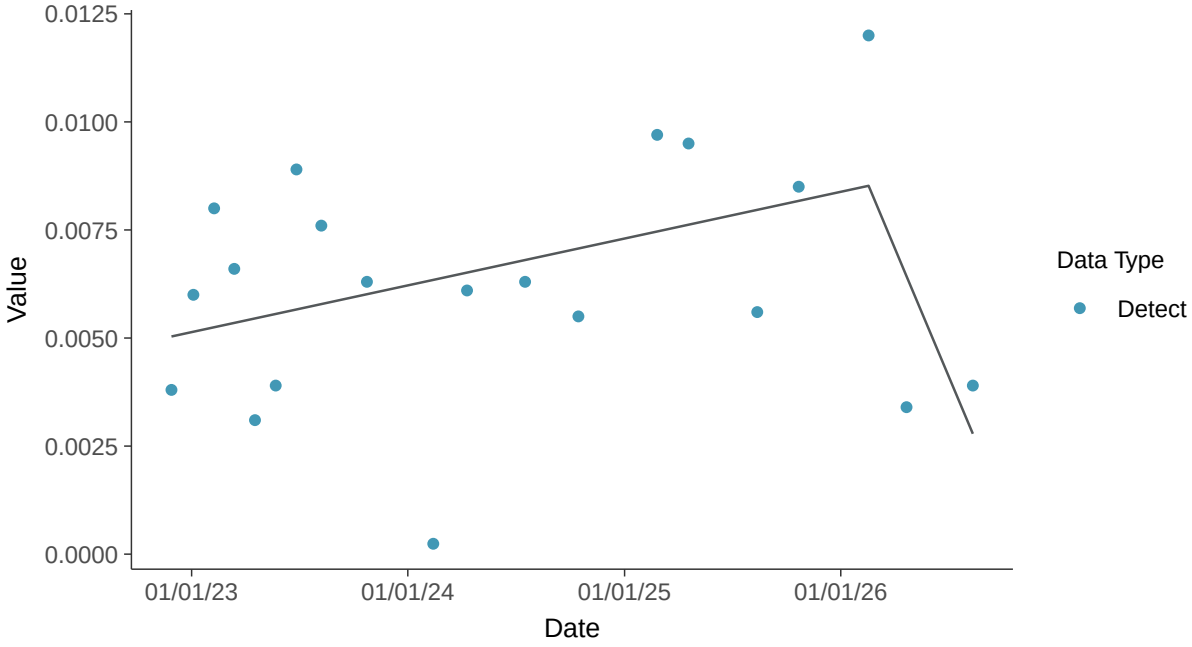
Trend Regression: Lognormal MLE

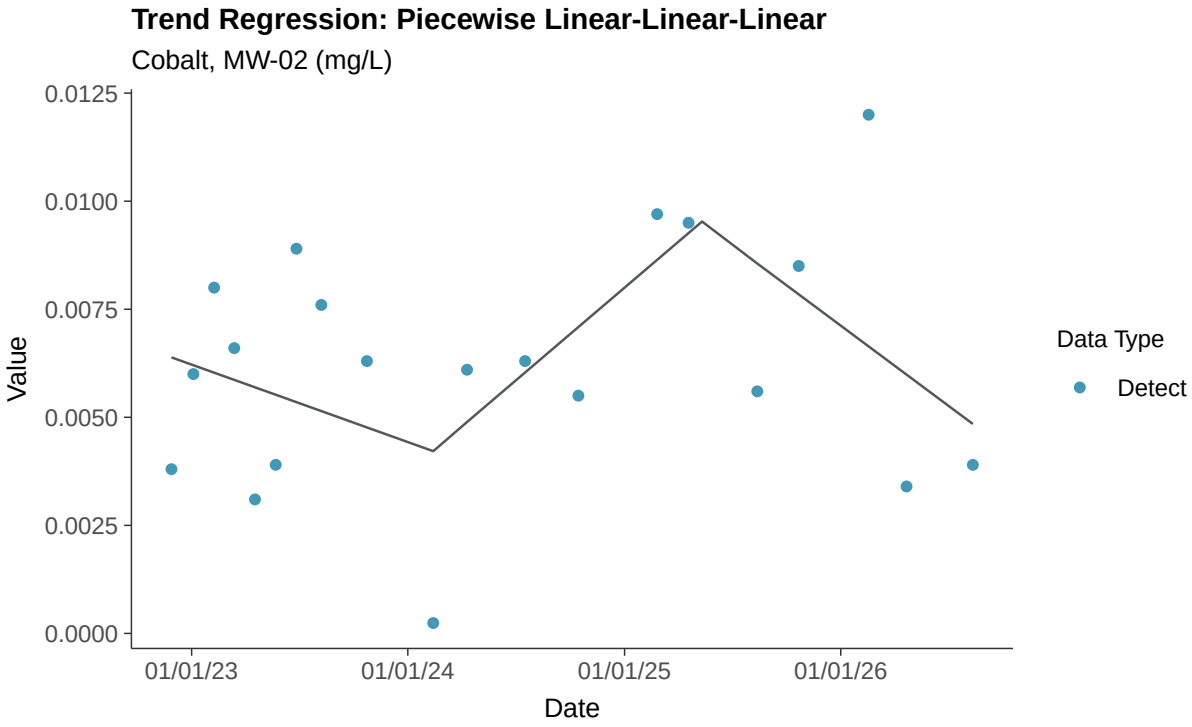
Cobalt, MW-02 (mg/L)



Trend Regression: Piecewise Linear-Linear

Cobalt, MW-02 (mg/L)



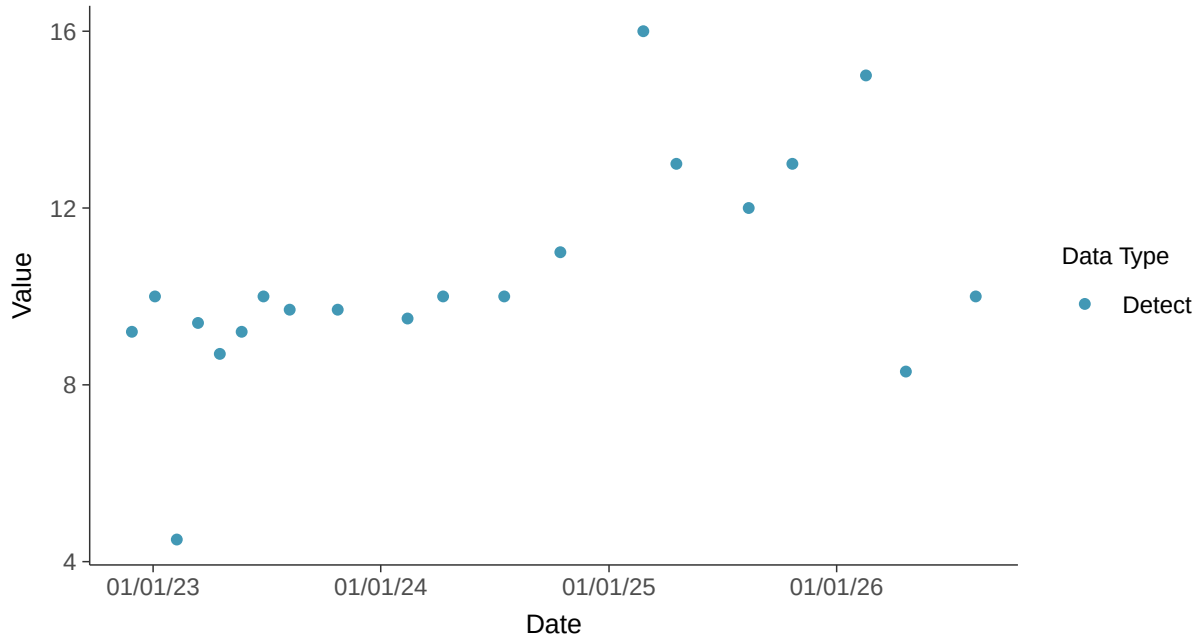

Trend Regression: Piecewise Linear-Linear-Linear
Cobalt, MW-02 (mg/L)
0.0125
0.0100
0.0075
0.0050
0.0025
0.0000
Value
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect

Appendix IV: Fluoride (App IV), MW-02

ID: 12_2_4_113

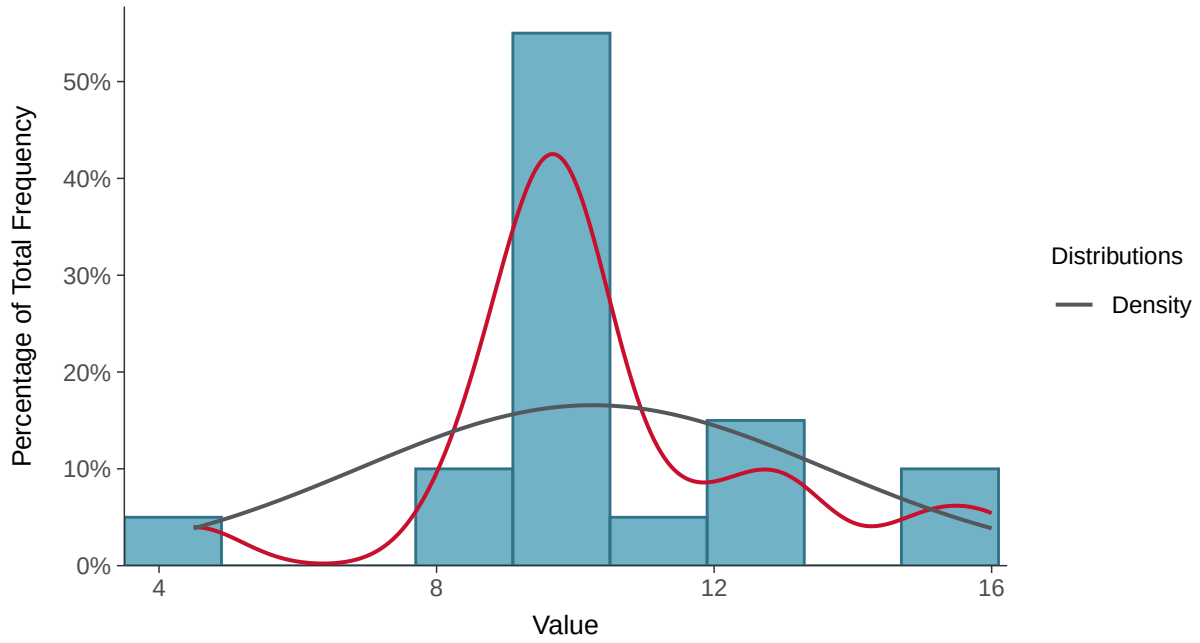
Scatter Plot

Fluoride (App IV), MW-02 (mg/L)



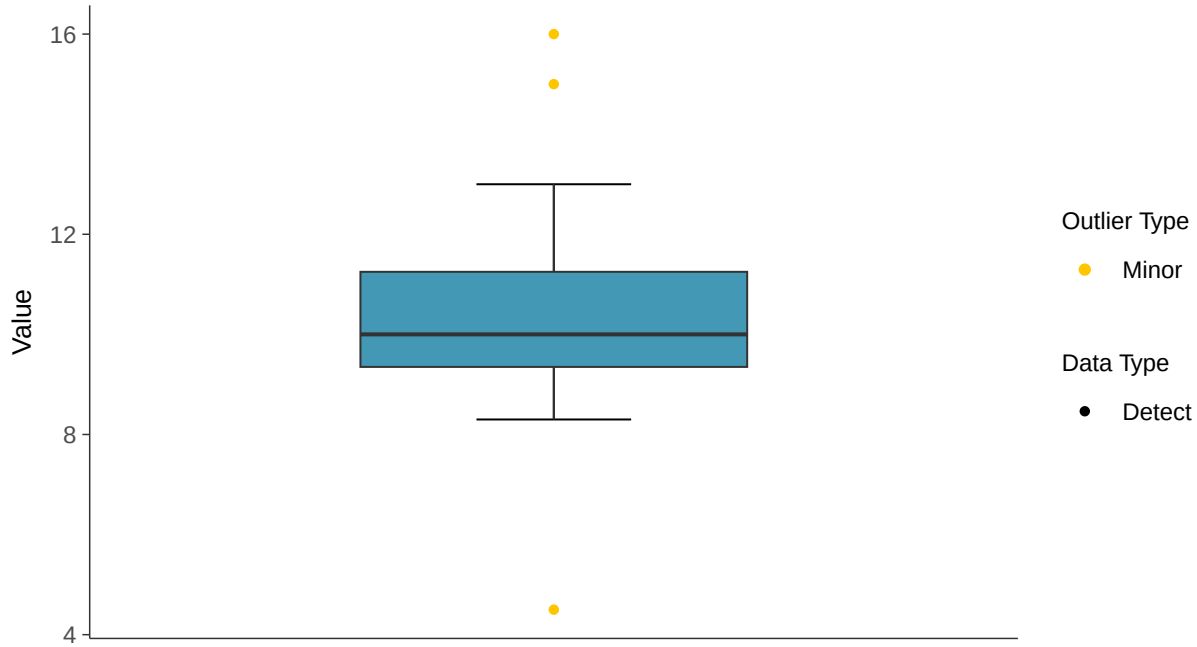
Histogram

Fluoride (App IV), MW-02 (mg/L)



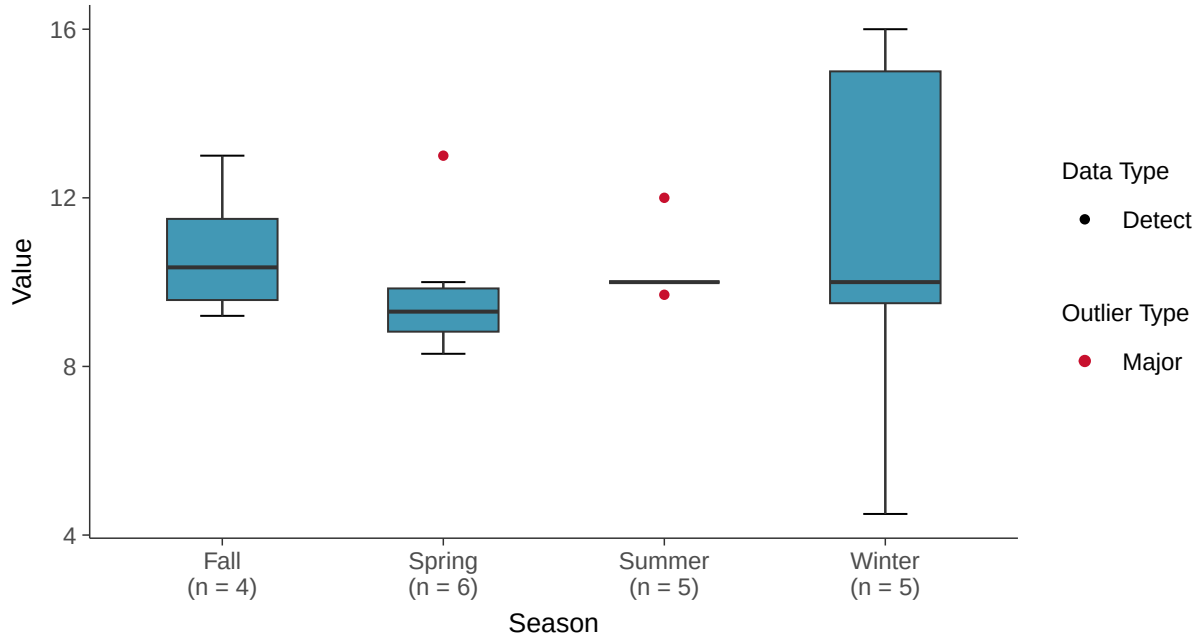
Boxplot

Fluoride (App IV), MW-02 (mg/L)



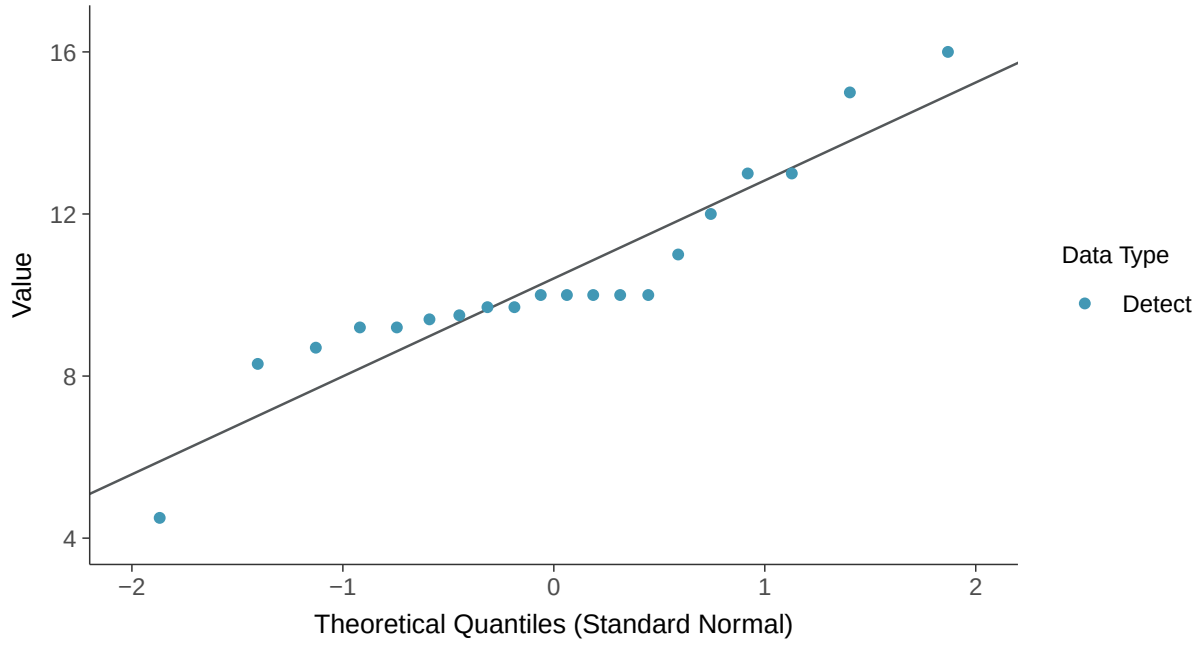
Boxplot by Season

Fluoride (App IV), MW-02 (mg/L)



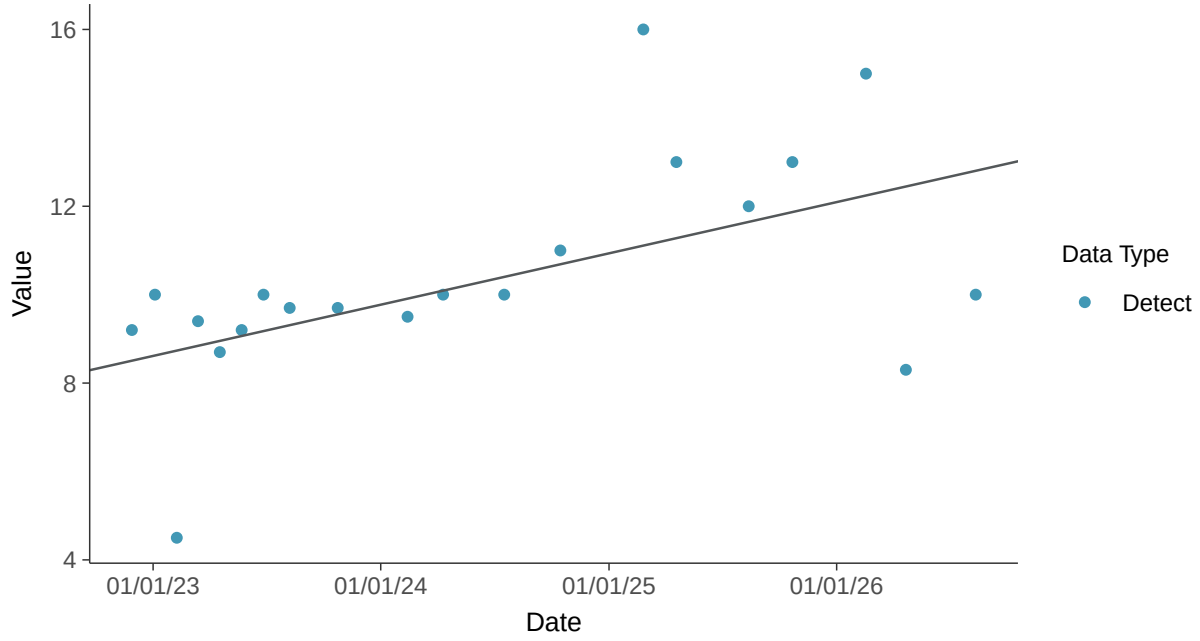
Normal Q-Q plot

Fluoride (App IV), MW-02 (mg/L)



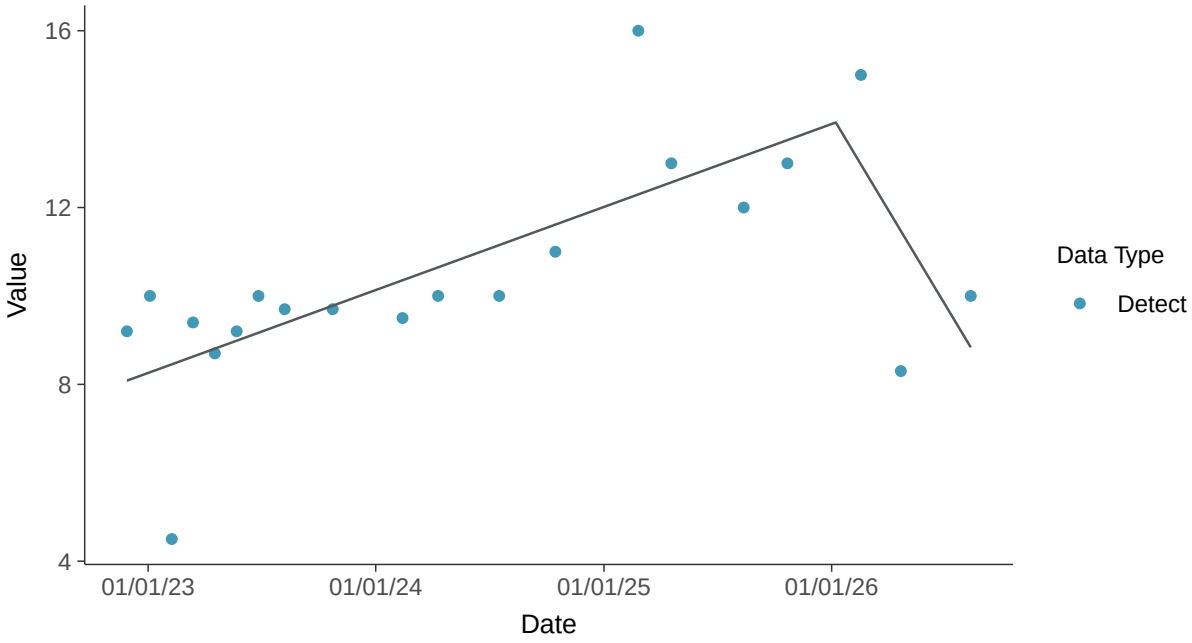
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Fluoride (App IV), MW-02 (mg/L)



Trend Regression: Piecewise Linear-Linear

Fluoride (App IV), MW-02 (mg/L)

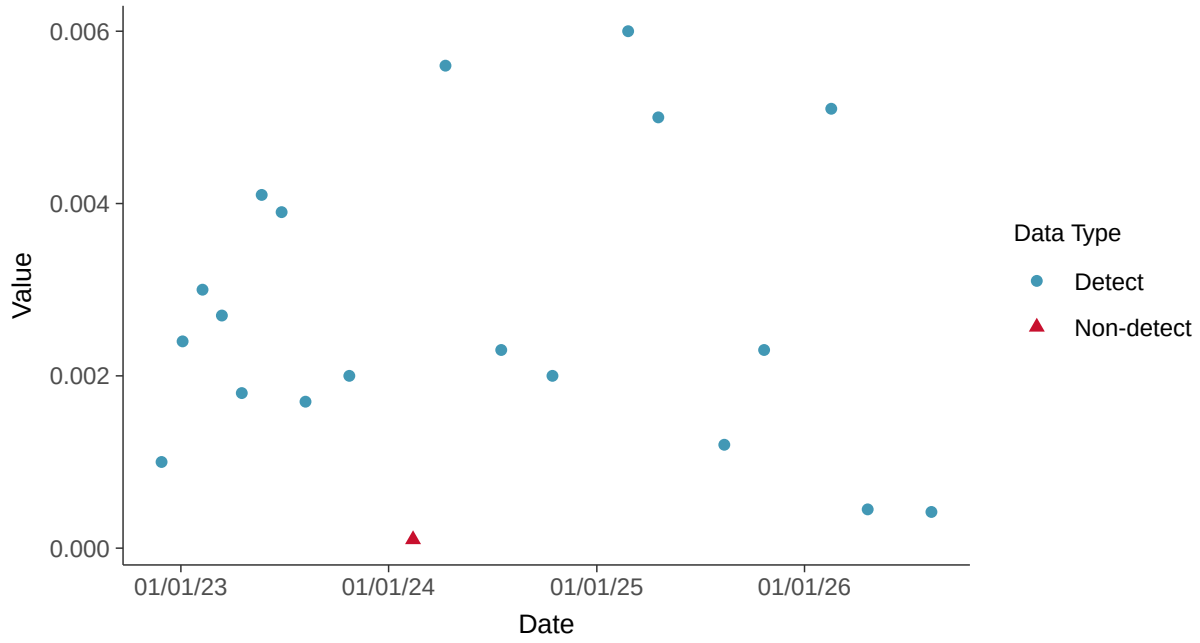


Appendix IV: Lead, MW-02

ID: 12_2_4_115

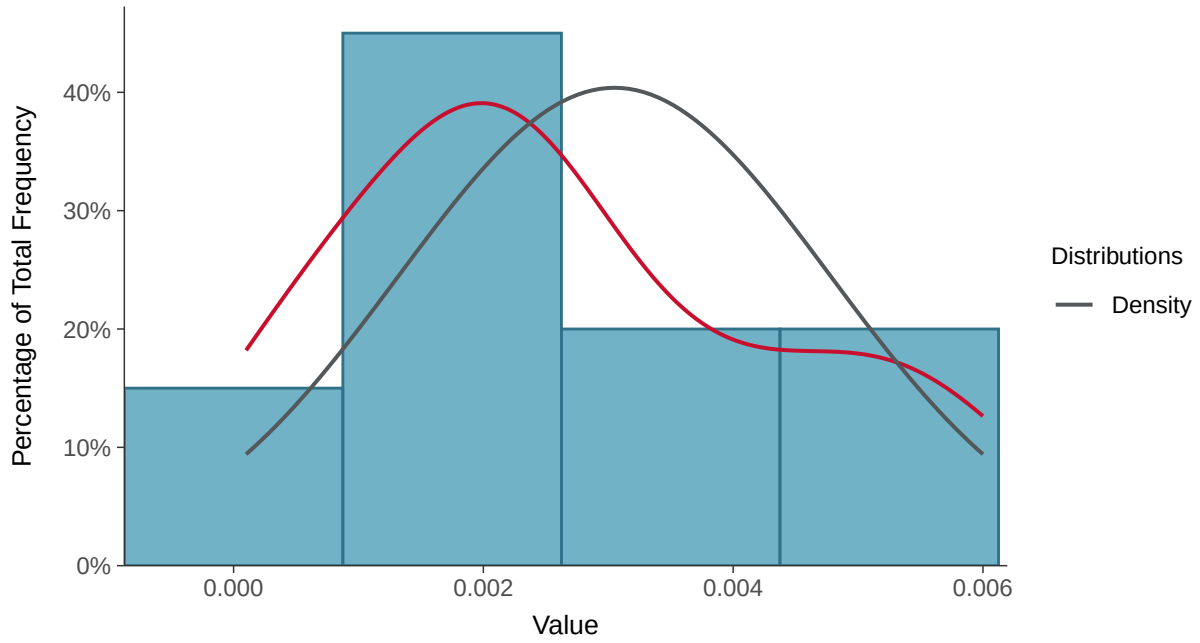
Scatter Plot

Lead, MW-02 (mg/L)



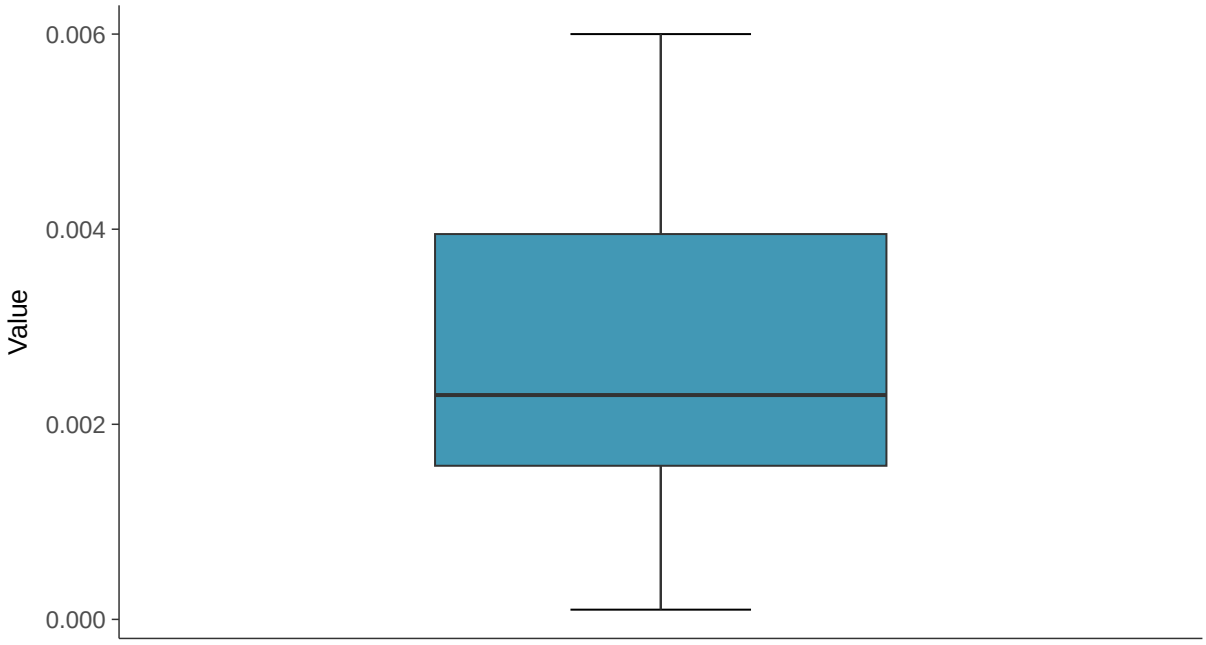
Histogram

Lead, MW-02 (mg/L)



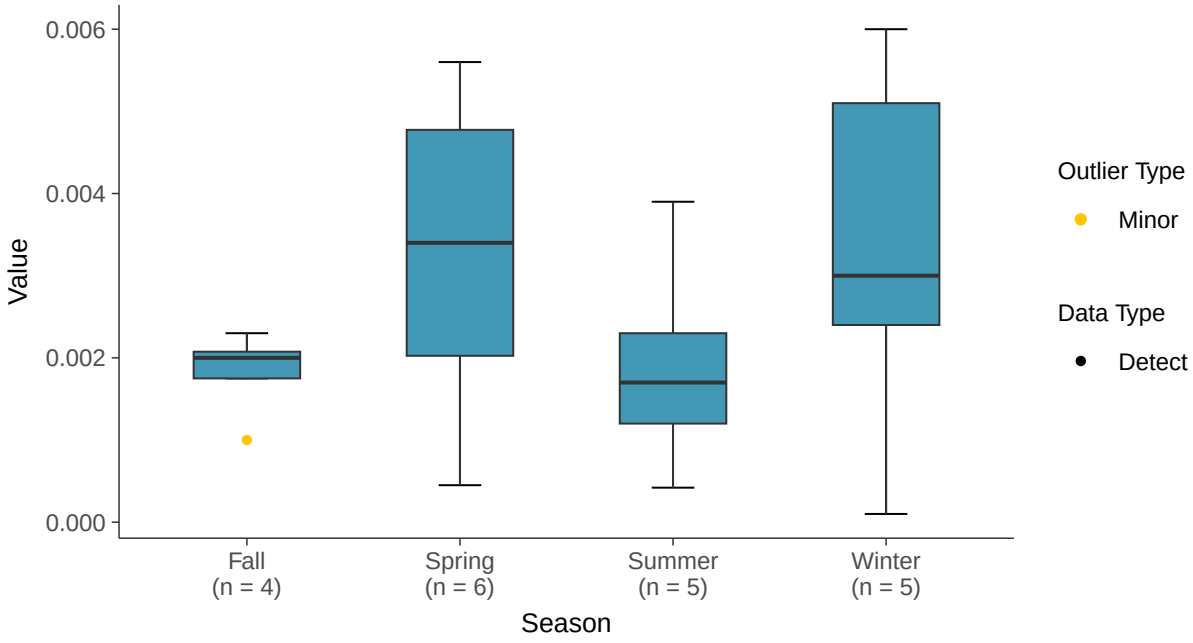
Boxplot

Lead, MW-02 (mg/L)



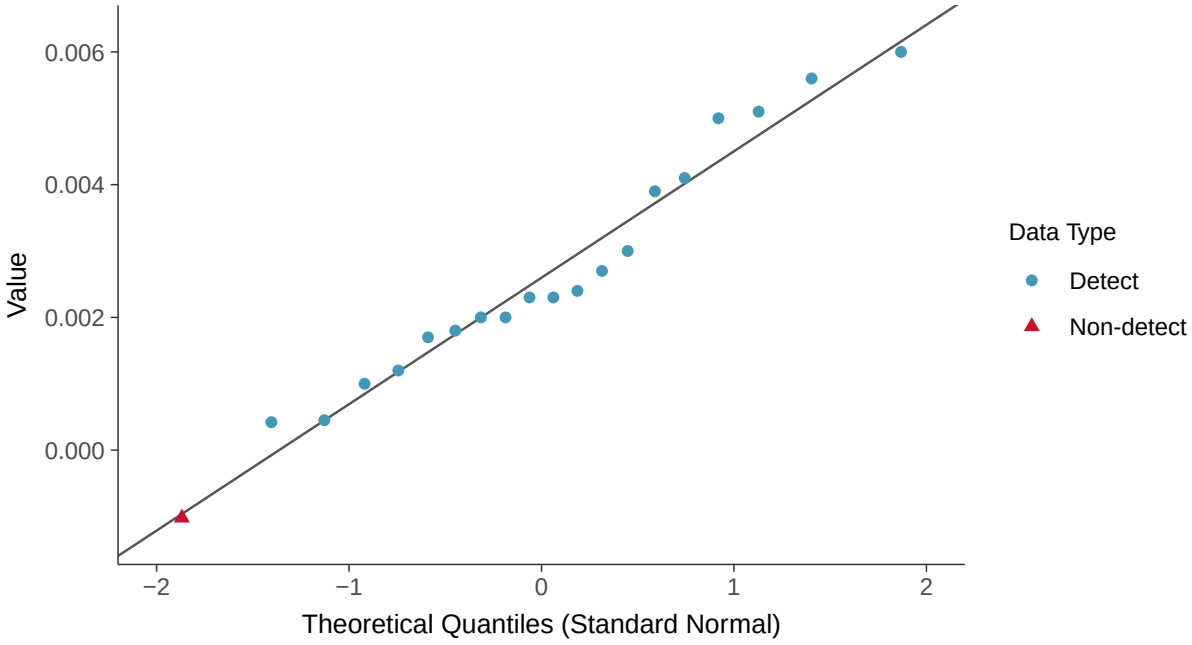
Boxplot by Season

Lead, MW-02 (mg/L)



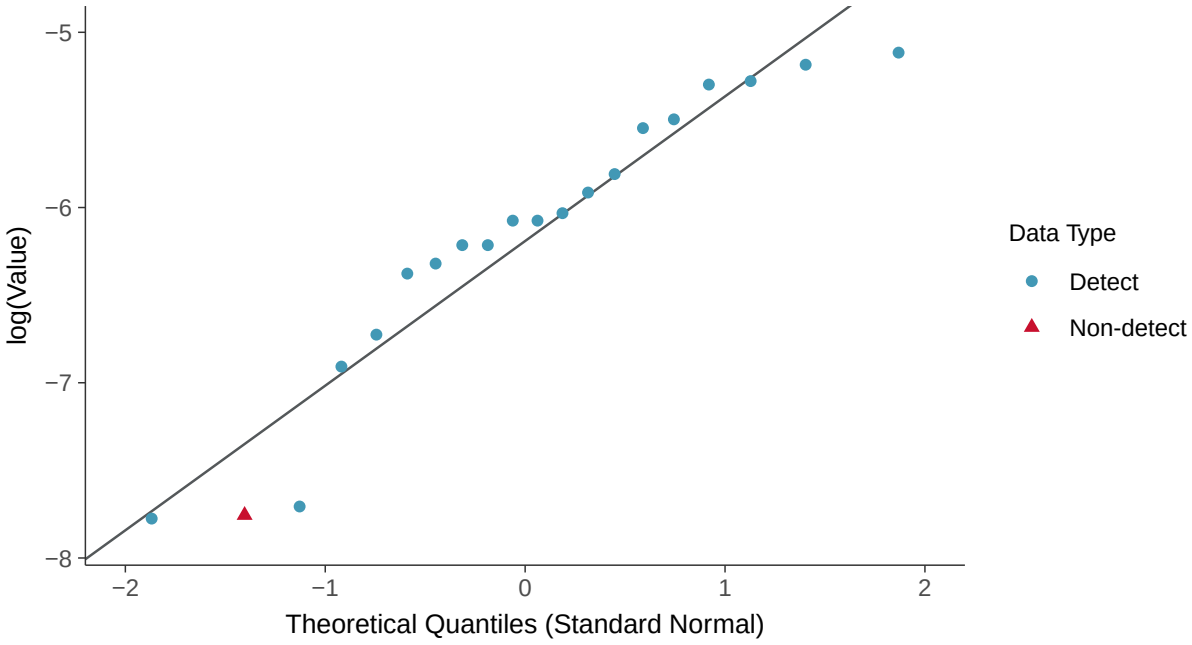
Normal Q-Q plot using ROS Imputed Estimates

Lead, MW-02 (mg/L)



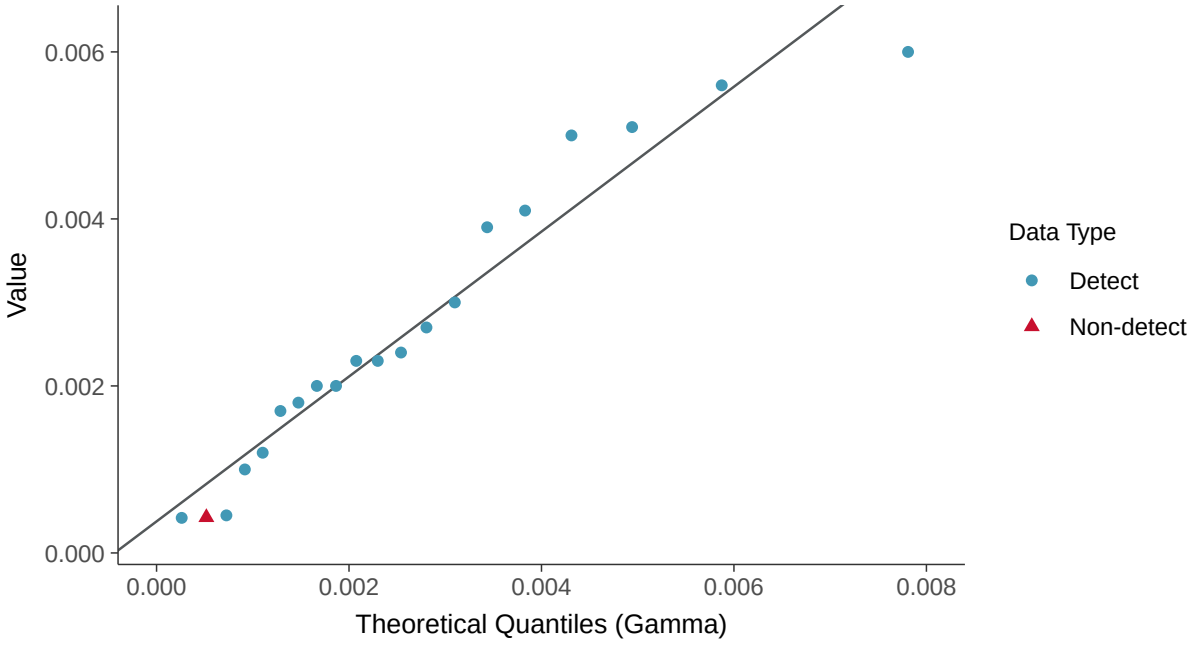
Lognormal Q-Q plot using ROS Imputed Estimates

Lead, MW-02 (mg/L)



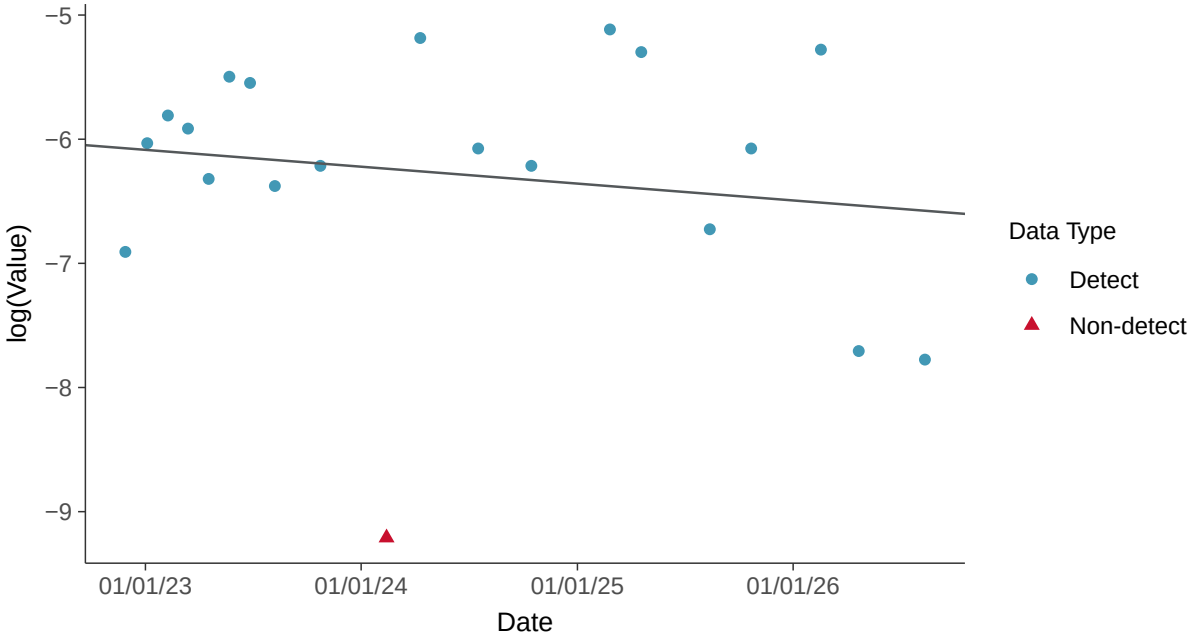
Gamma Q-Q plot using ROS Imputed Estimates

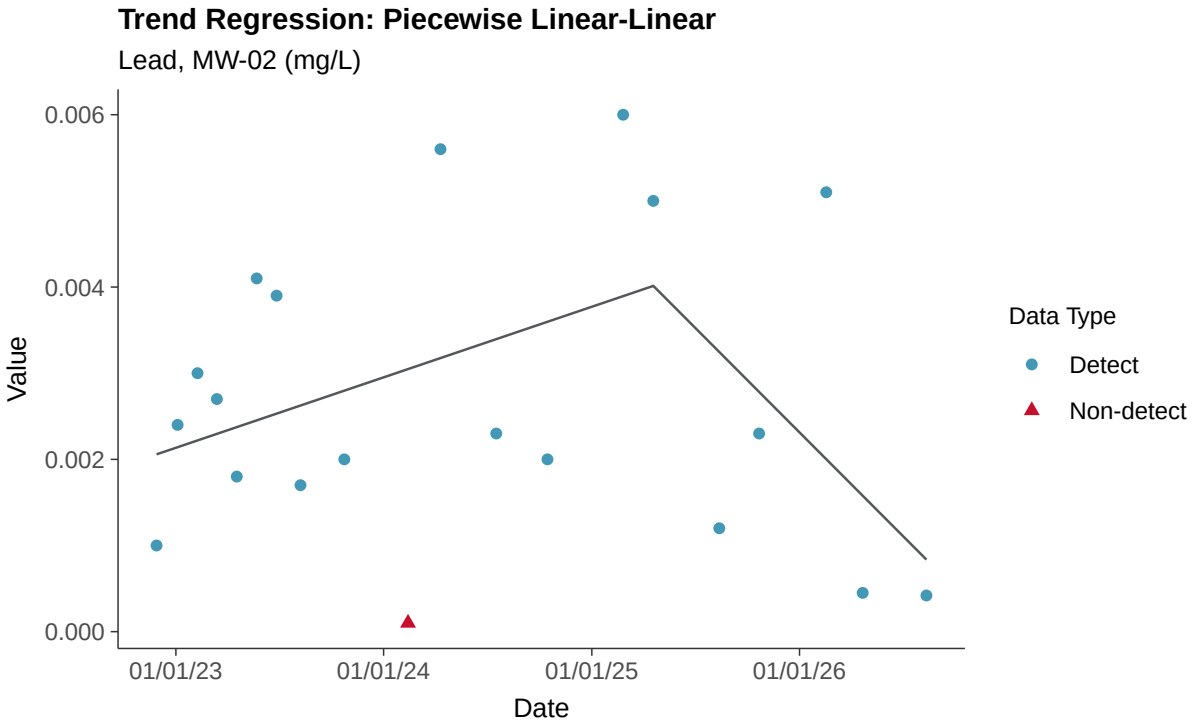
Lead, MW-02 (mg/L)



Trend Regression: Lognormal MLE

Lead, MW-02 (mg/L)



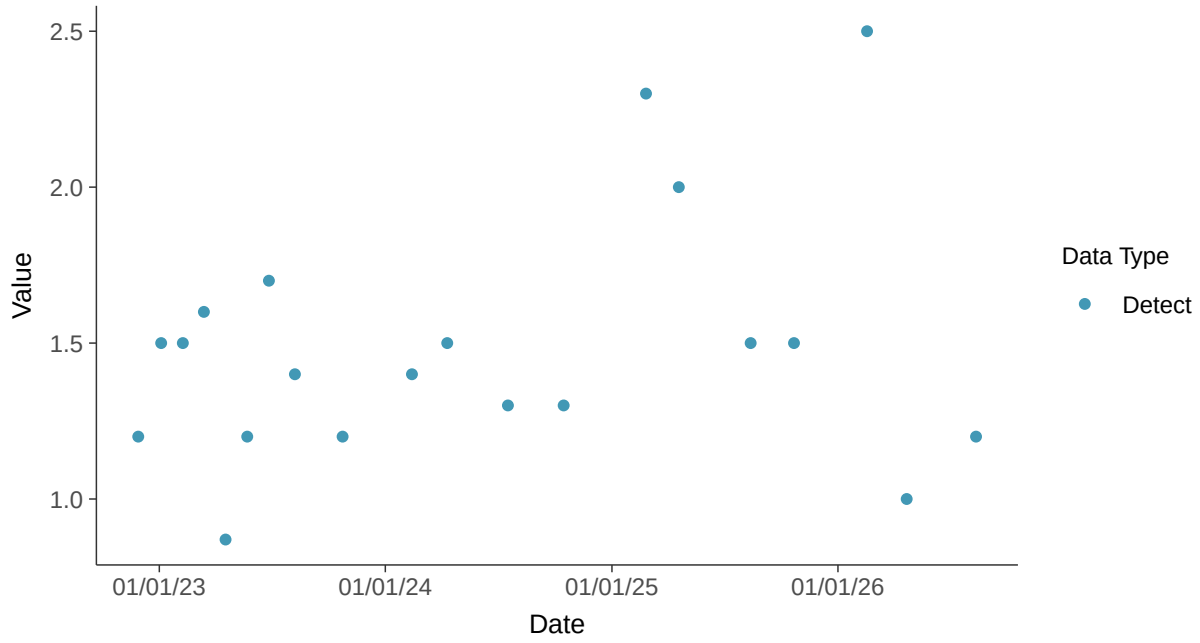

Trend Regression: Piecewise Linear-Linear
Lead, MW-02 (mg/L)
Value
0.006
0.004
0.002
0.000
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect
Non-detect

Appendix IV: Lithium, MW-02

ID: 12_2_4_116

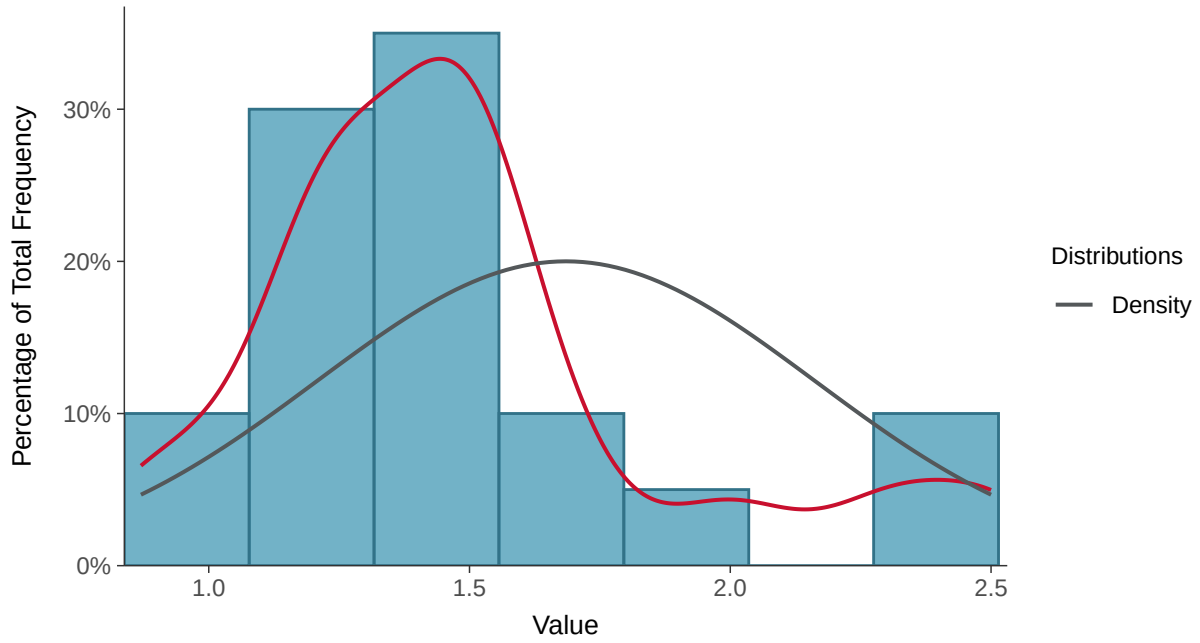
Scatter Plot

Lithium, MW-02 (mg/L)



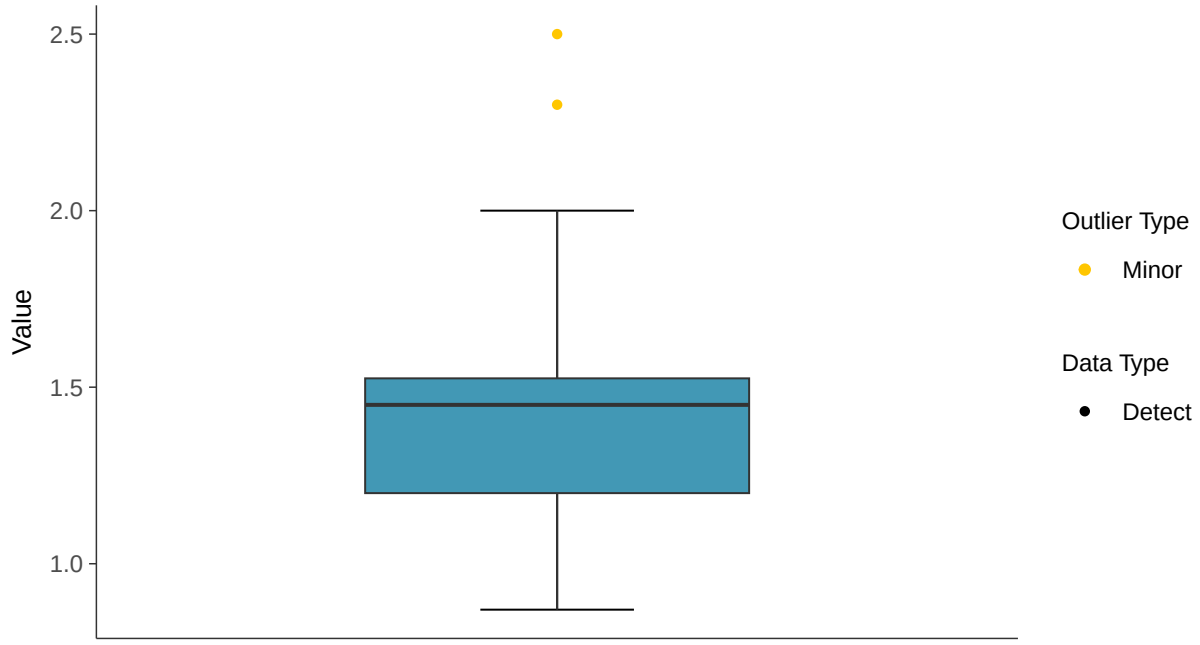
Histogram

Lithium, MW-02 (mg/L)



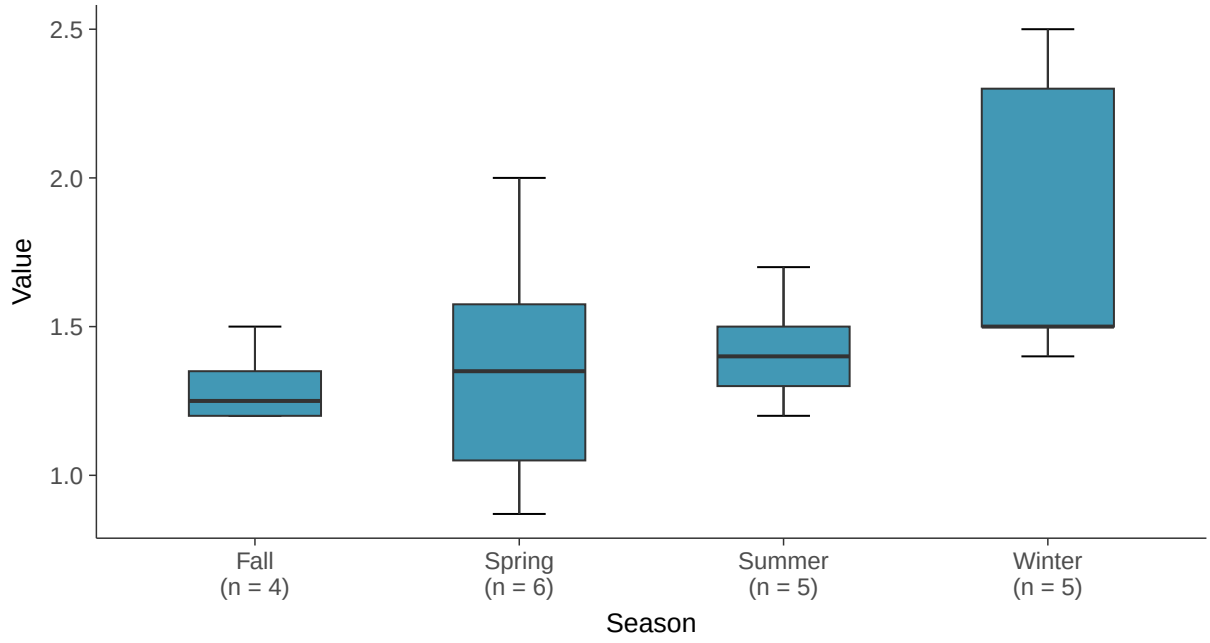
Boxplot

Lithium, MW-02 (mg/L)



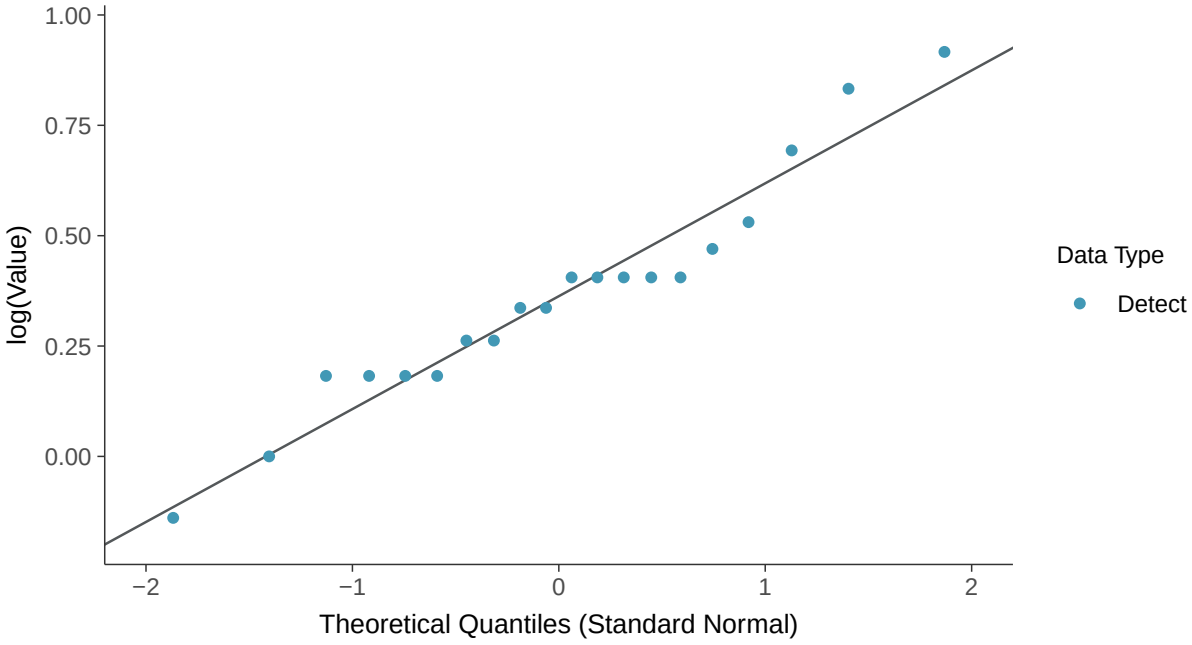
Boxplot by Season

Lithium, MW-02 (mg/L)



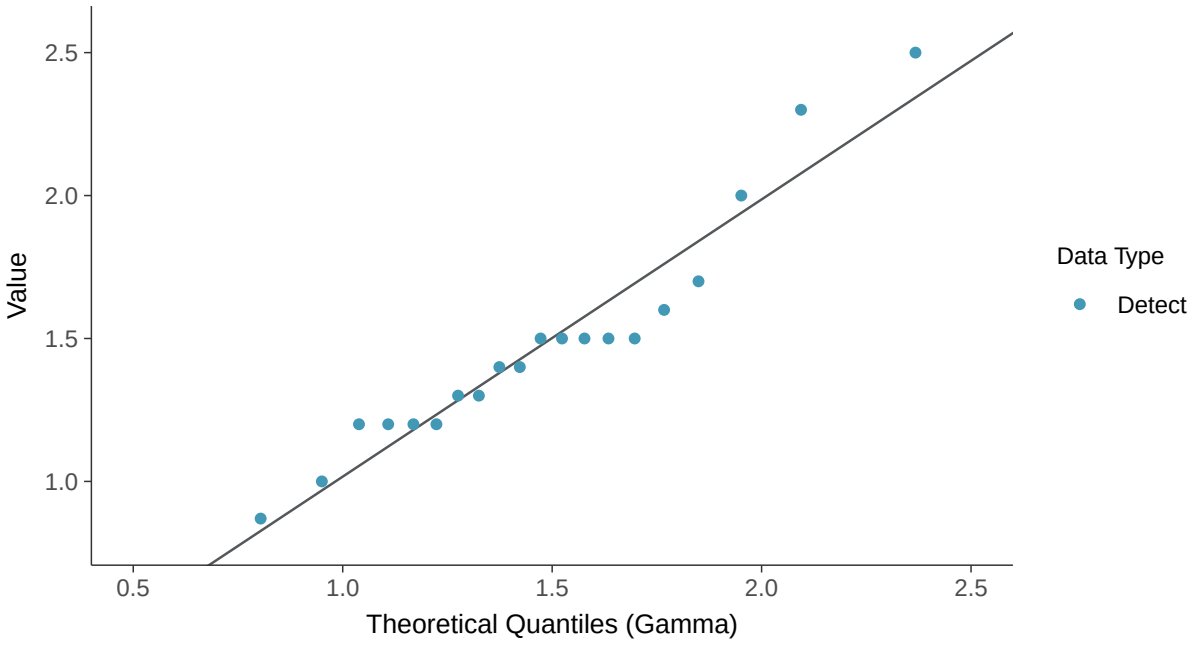
Lognormal Q-Q plot

Lithium, MW-02 (mg/L)



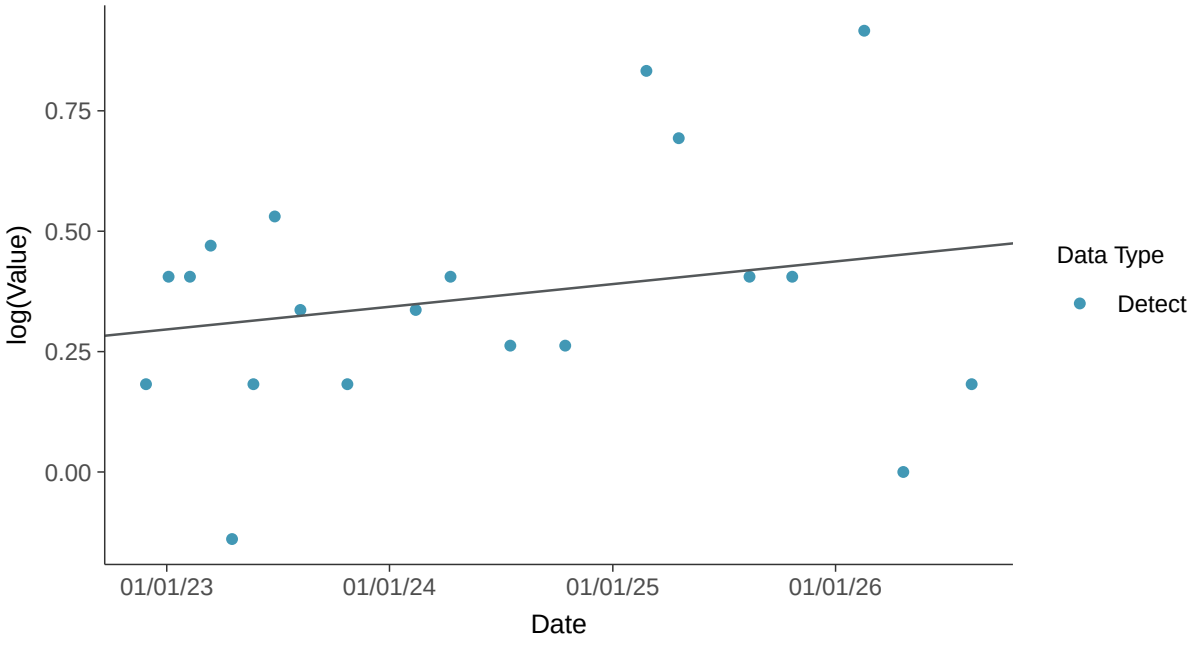
Gamma Q-Q plot

Lithium, MW-02 (mg/L)



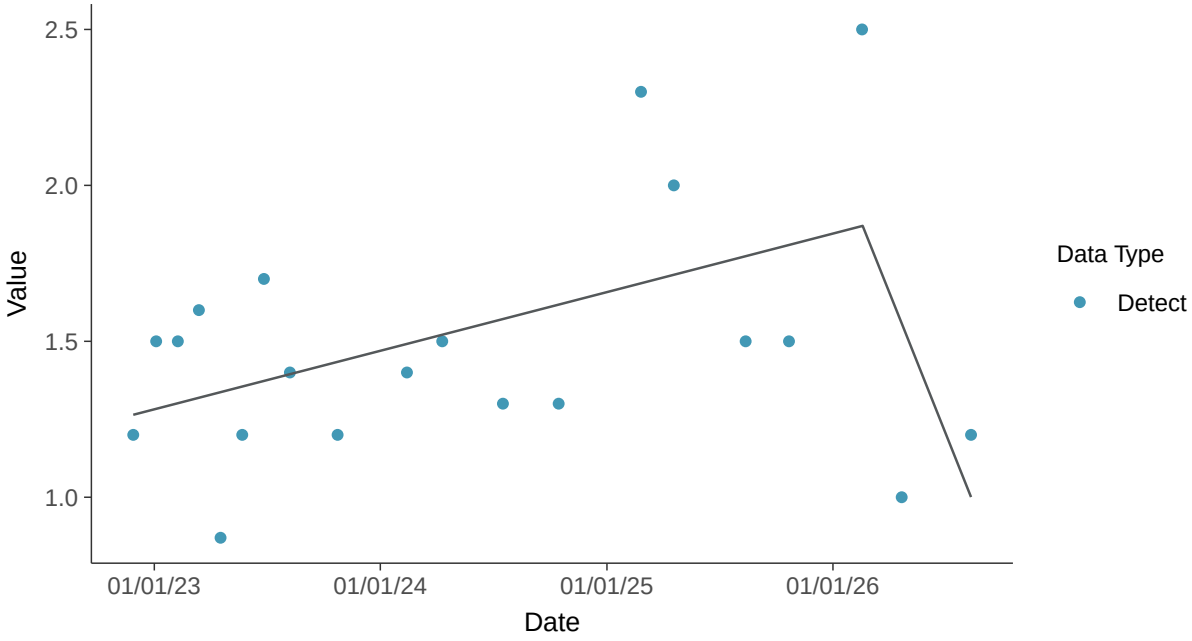
Trend Regression: Lognormal MLE

Lithium, MW-02 (mg/L)



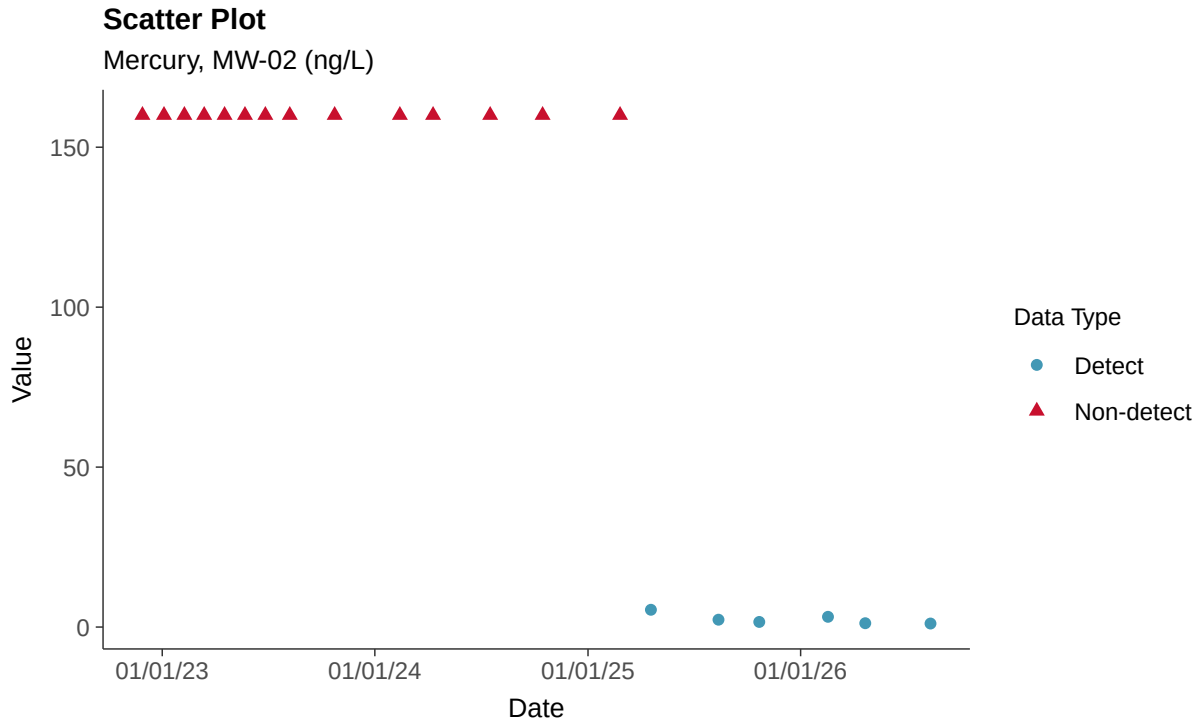
Trend Regression: Piecewise Linear-Linear

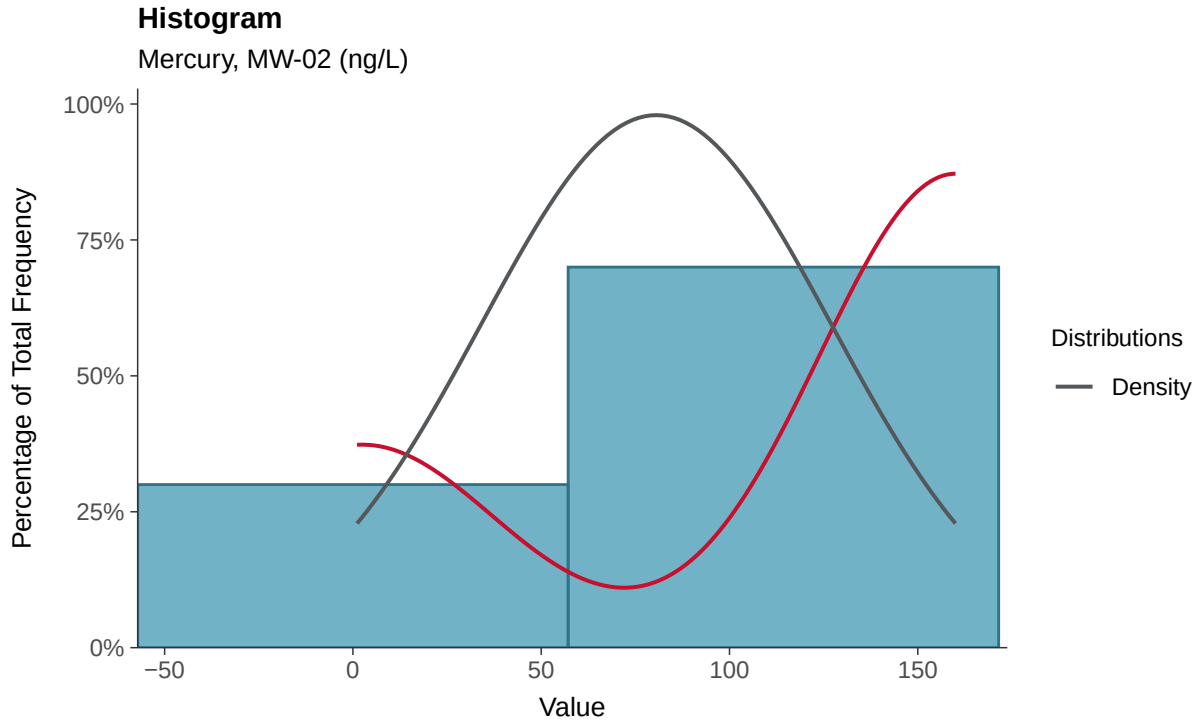
Lithium, MW-02 (mg/L)



Appendix IV: Mercury, MW-02

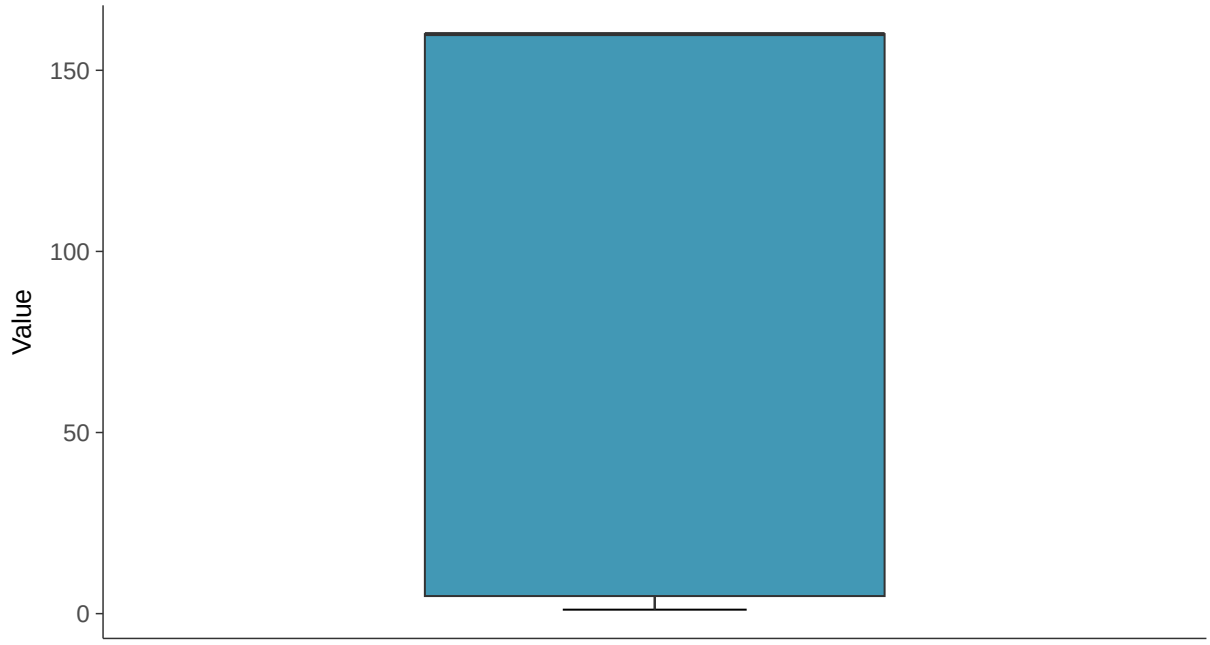
ID: 12_2_4_117





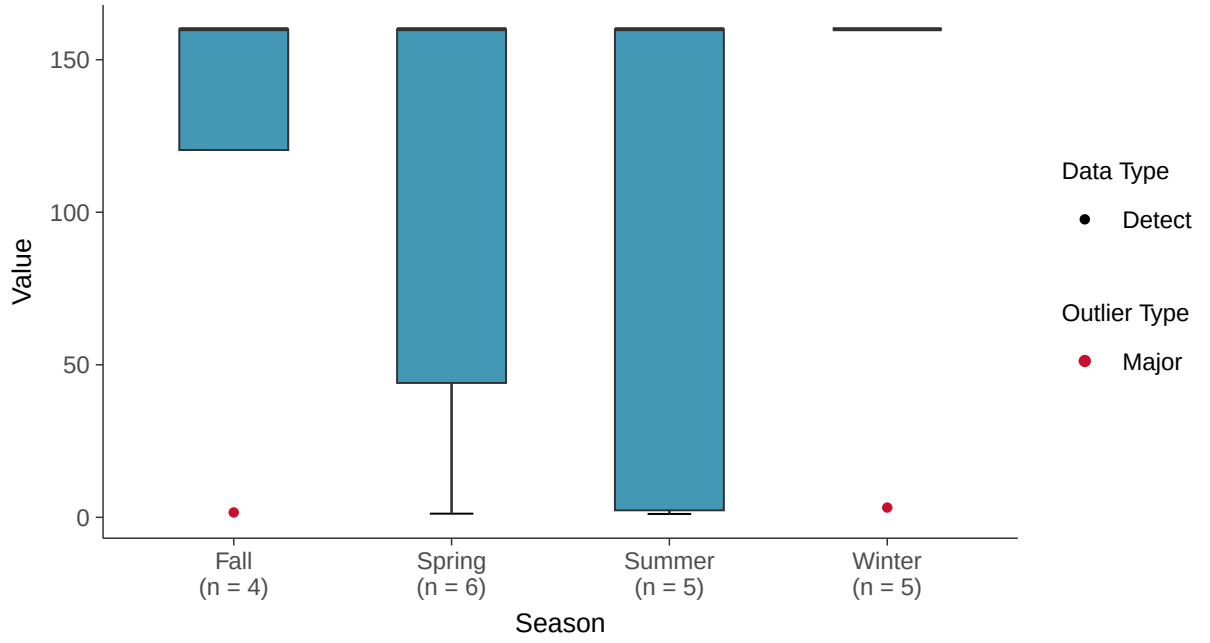
Boxplot

Mercury, MW-02 (ng/L)



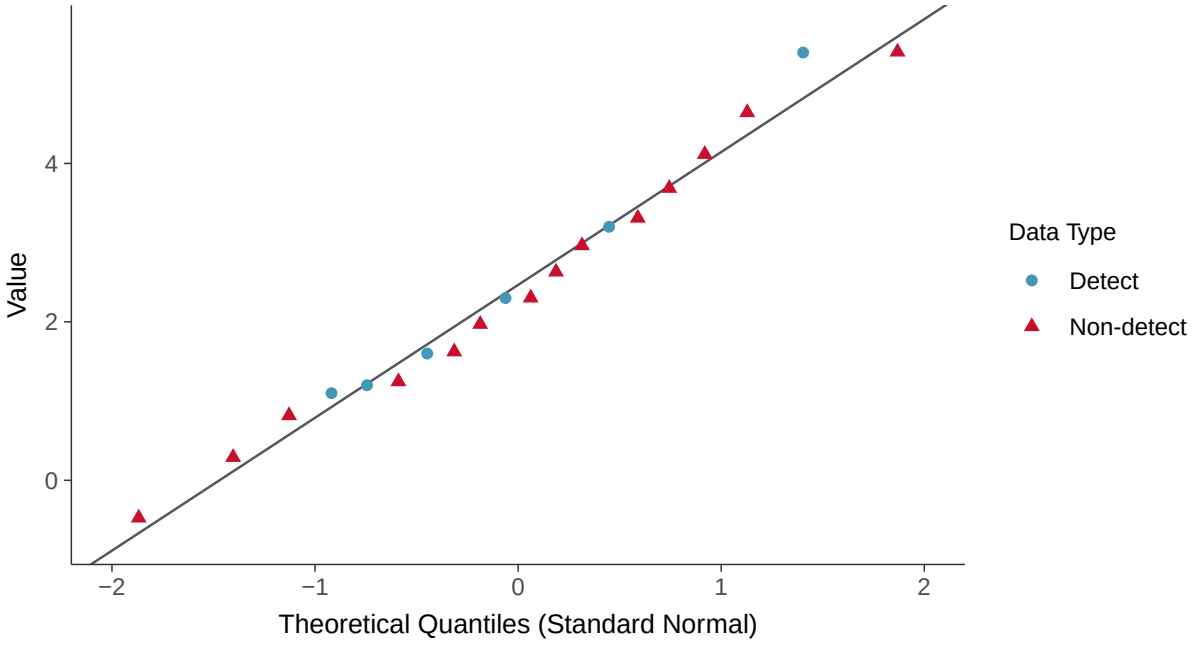
Boxplot by Season

Mercury, MW-02 (ng/L)



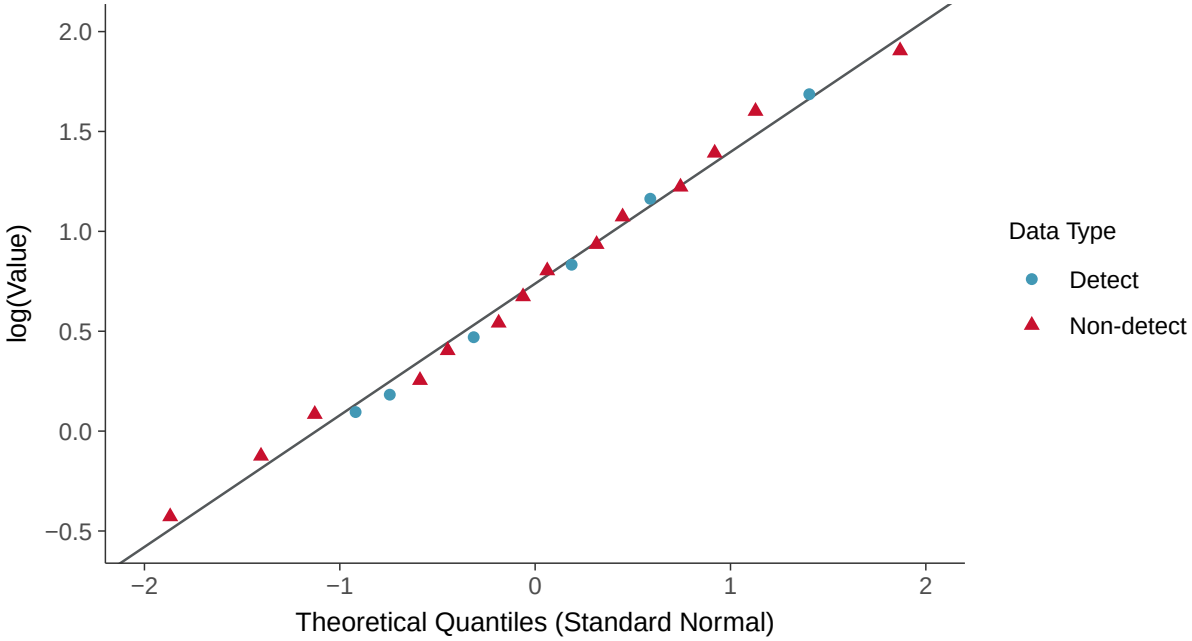
Normal Q-Q plot using ROS Imputed Estimates

Mercury, MW-02 (ng/L)



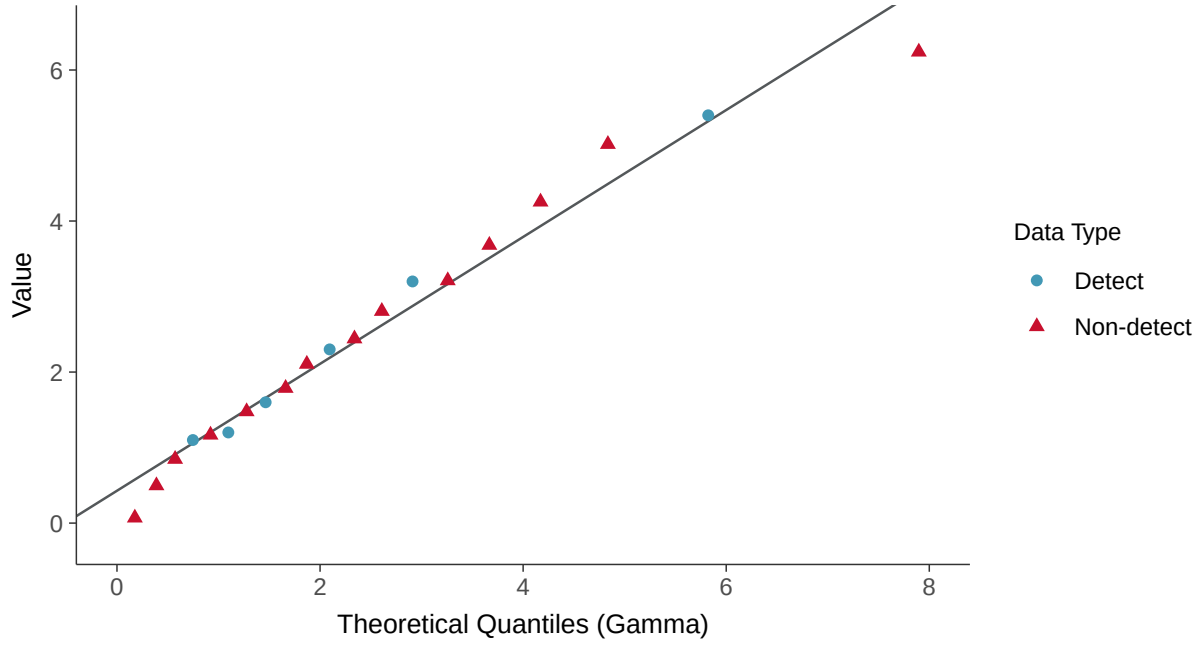
Lognormal Q-Q plot using ROS Imputed Estimates

Mercury, MW-02 (ng/L)



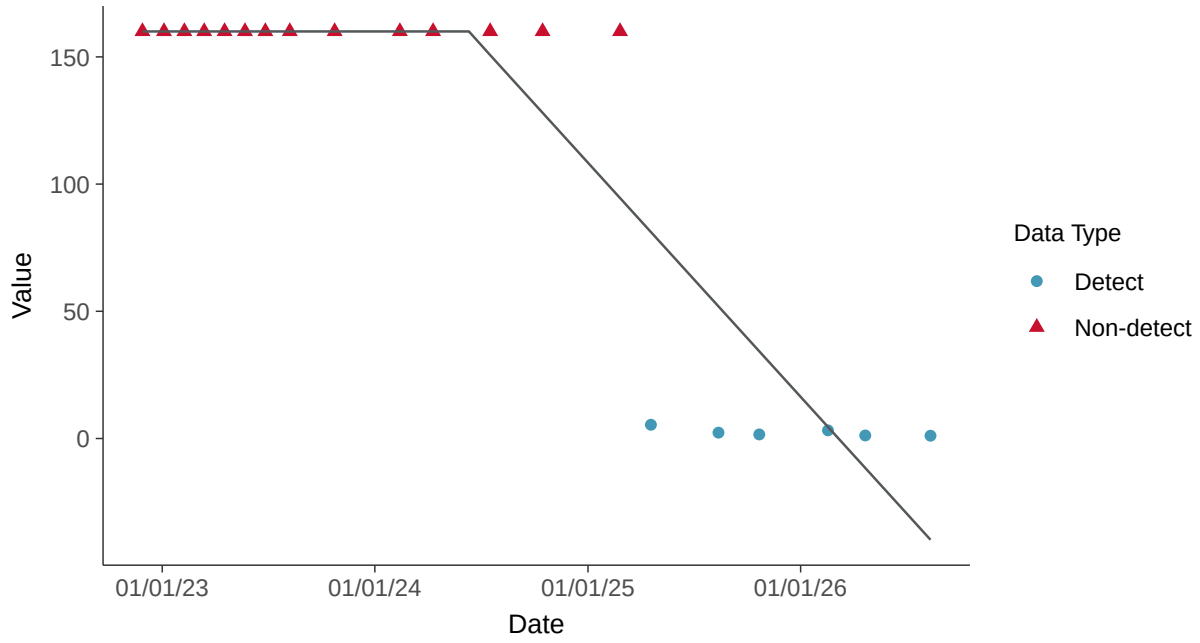
Gamma Q-Q plot using ROS Imputed Estimates

Mercury, MW-02 (ng/L)



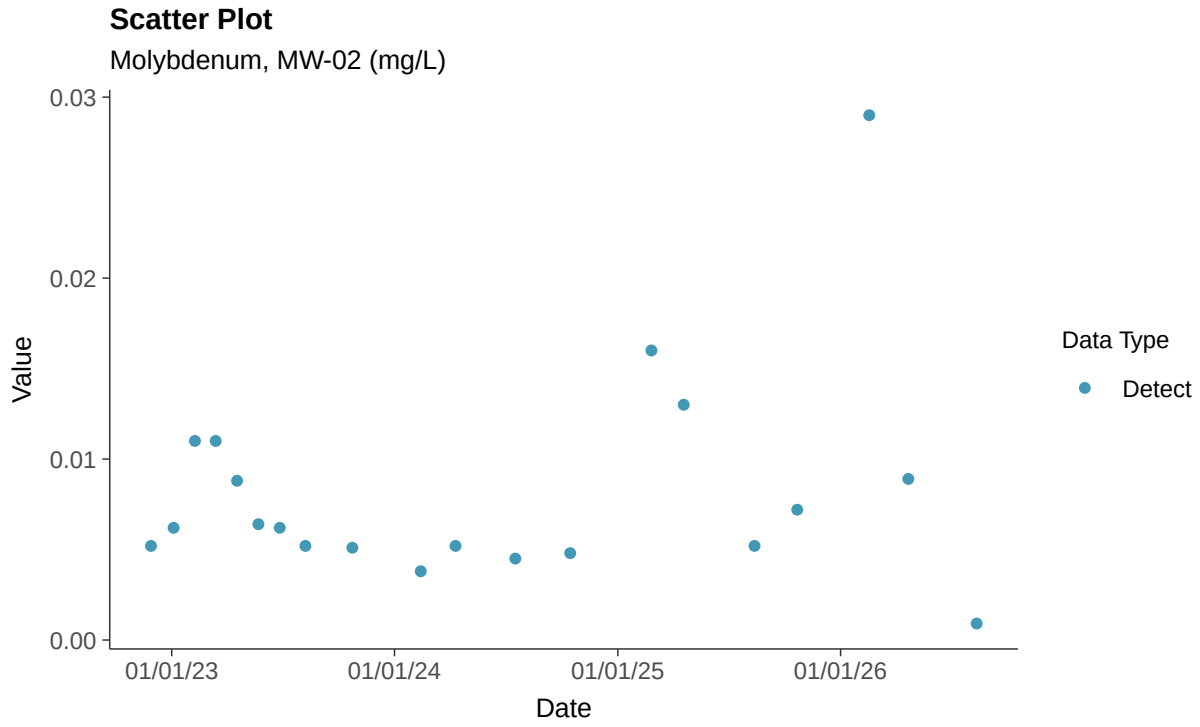
Trend Regression: Piecewise Linear-Linear

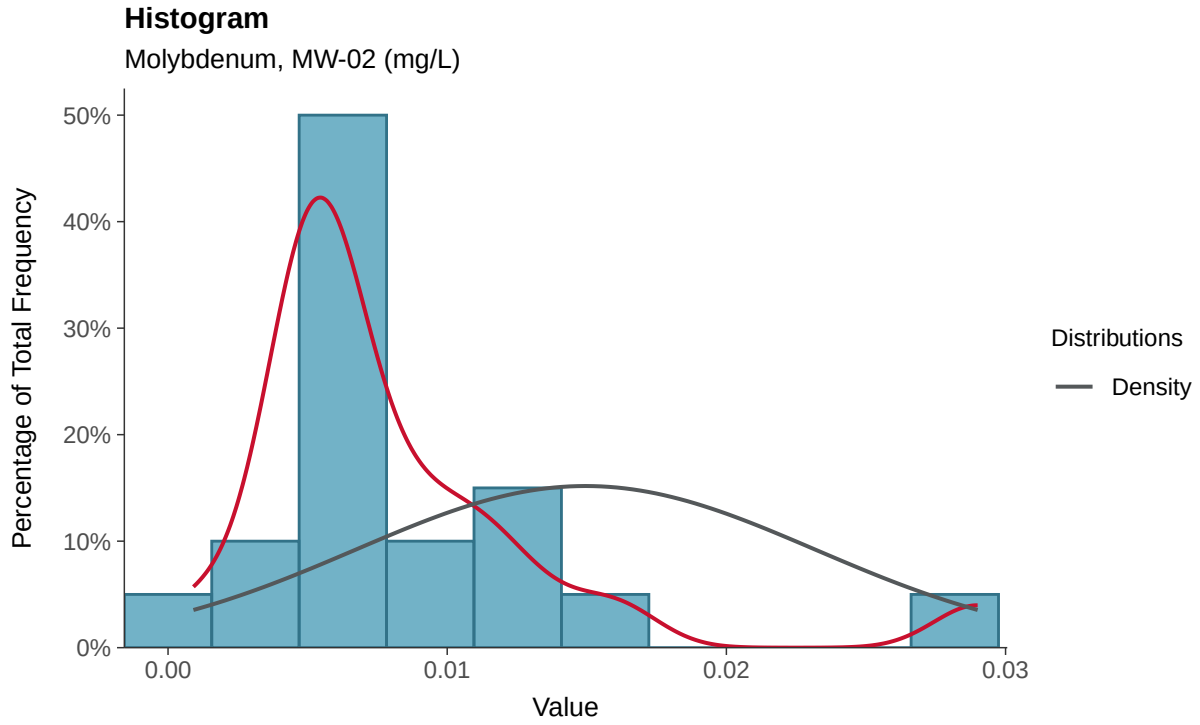
Mercury, MW-02 (ng/L)



Appendix IV: Molybdenum, MW-02

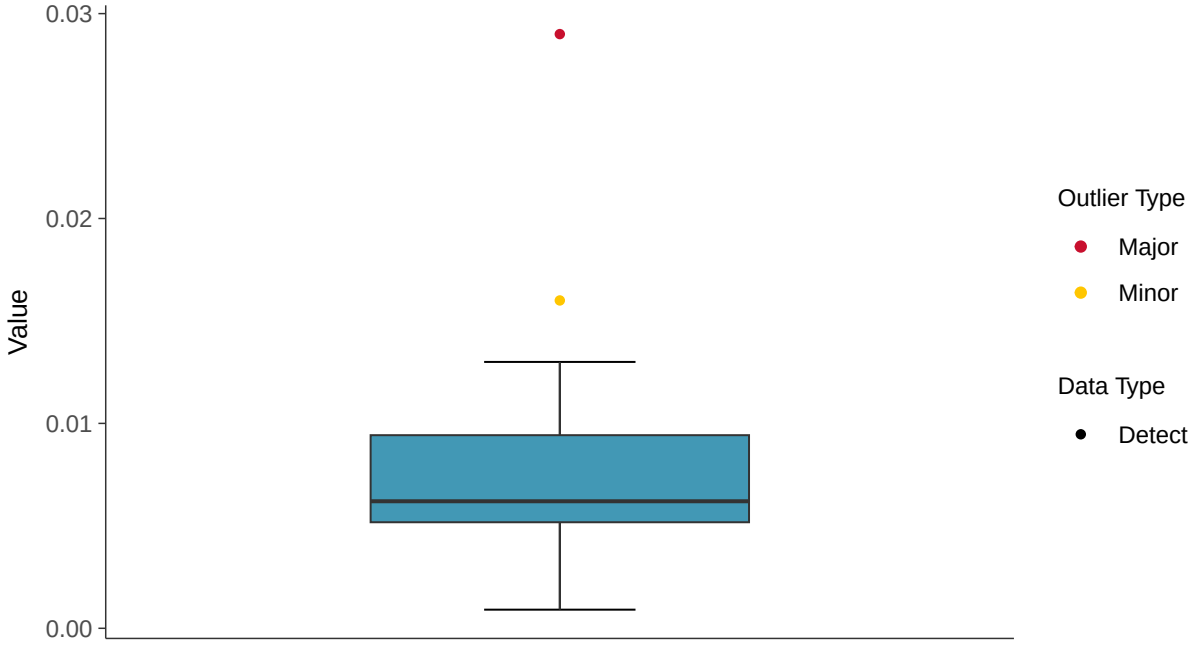
ID: 12_2_4_118





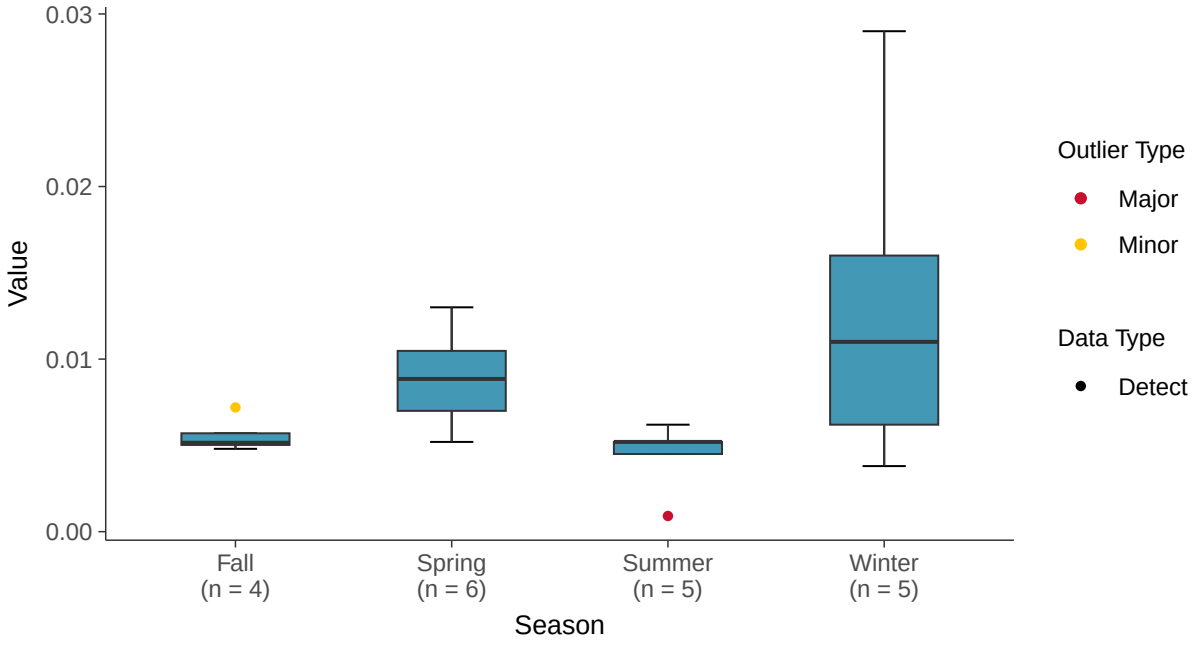
Boxplot

Molybdenum, MW-02 (mg/L)



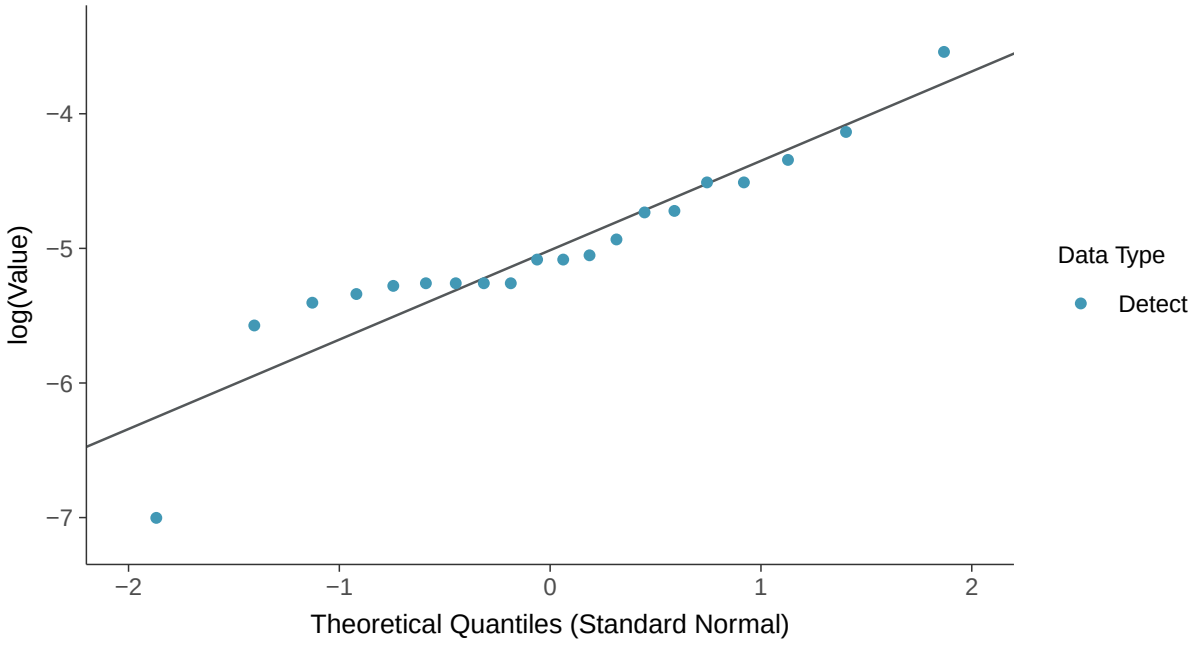
Boxplot by Season

Molybdenum, MW-02 (mg/L)



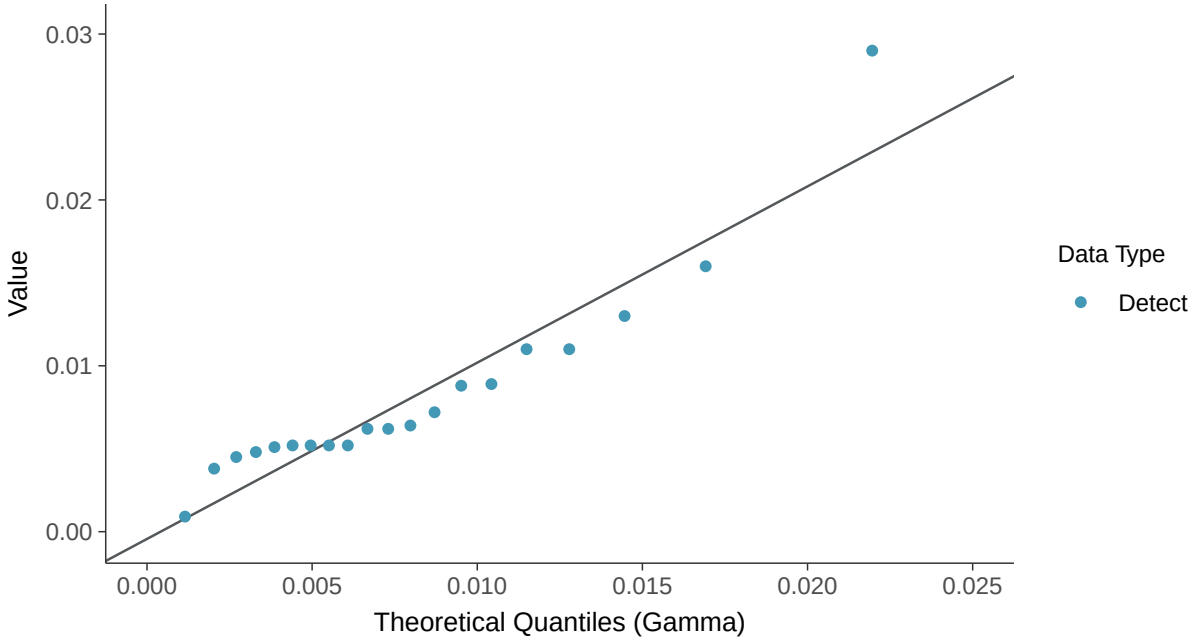
Lognormal Q-Q plot

Molybdenum, MW-02 (mg/L)



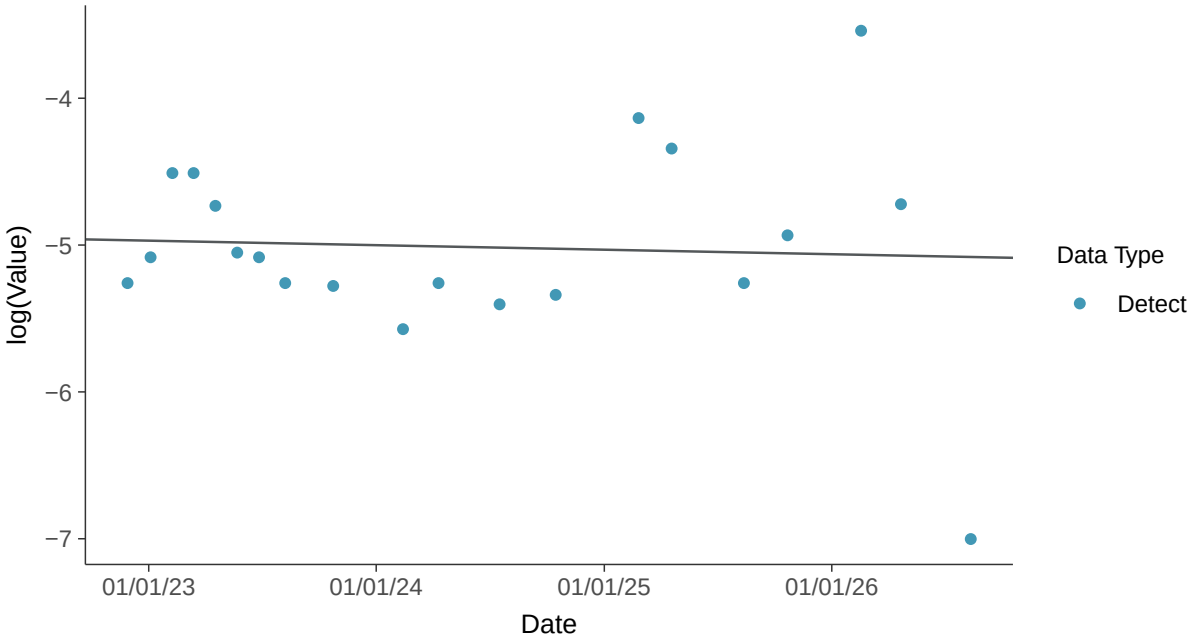
Gamma Q-Q plot

Molybdenum, MW-02 (mg/L)



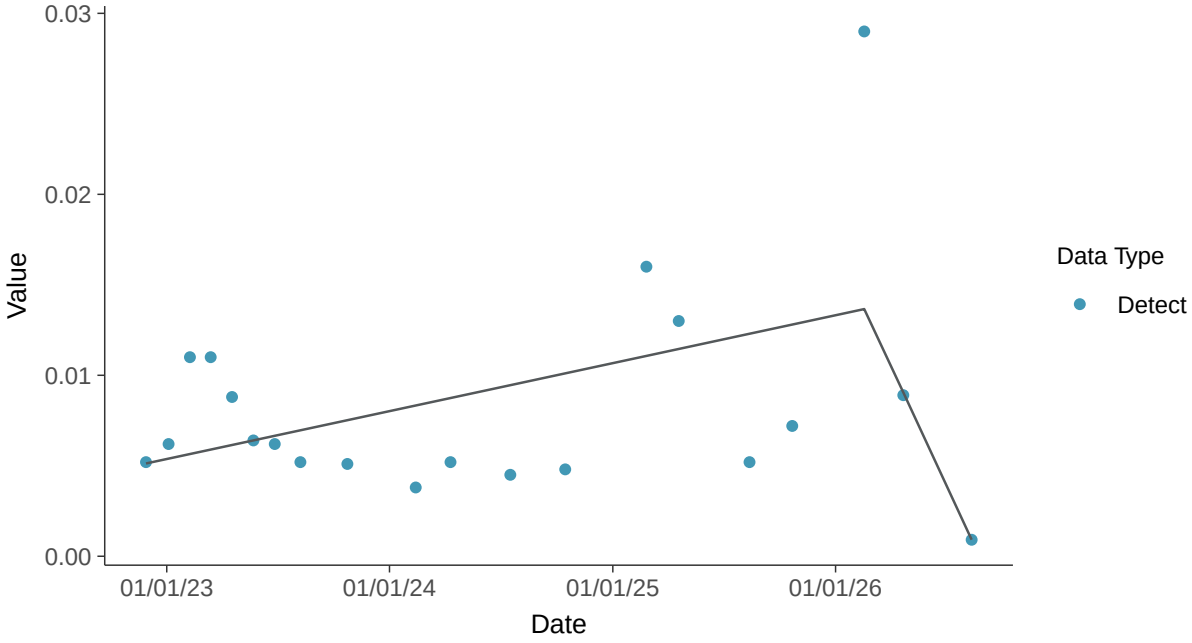
Trend Regression: Lognormal MLE

Molybdenum, MW-02 (mg/L)



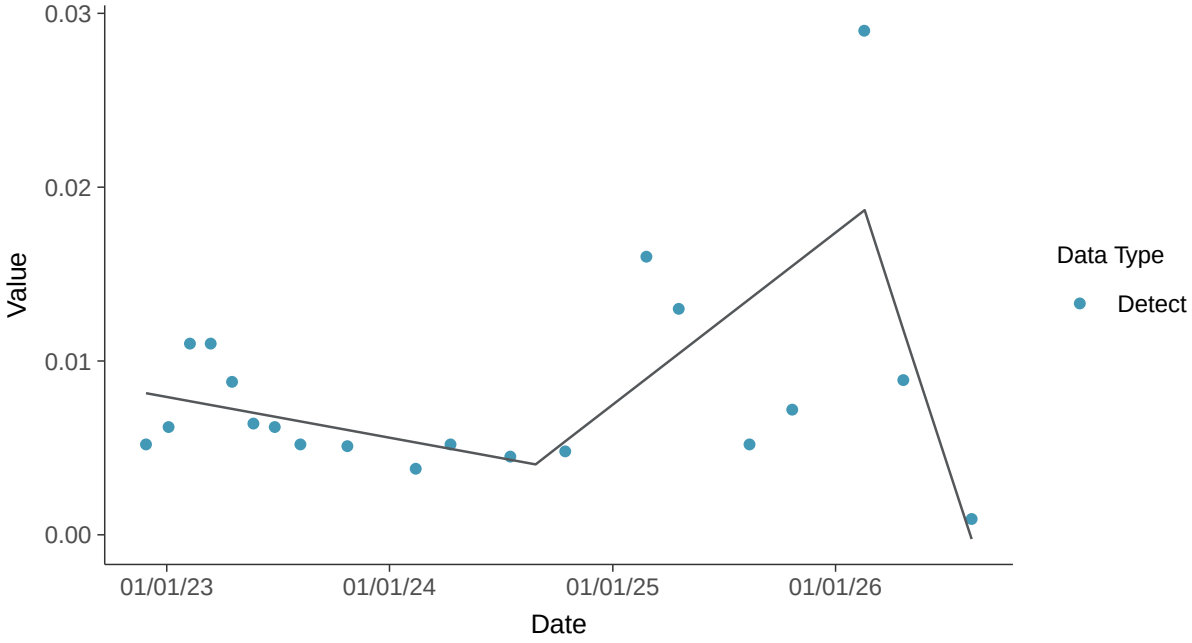
Trend Regression: Piecewise Linear-Linear

Molybdenum, MW-02 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Molybdenum, MW-02 (mg/L)

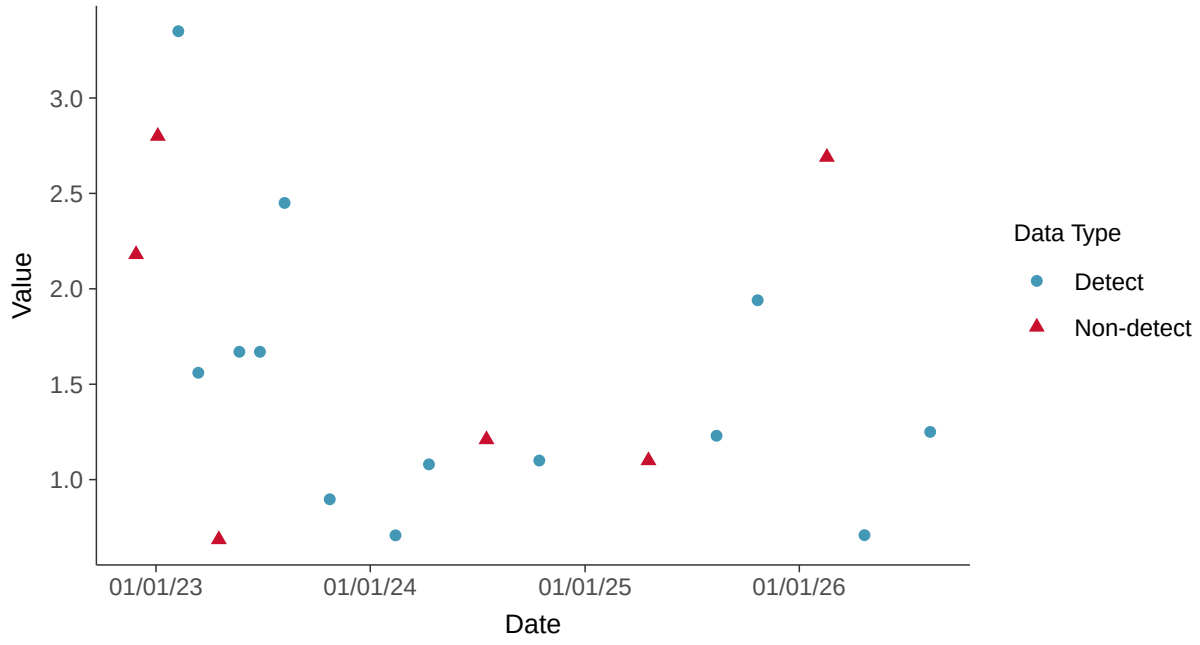


Appendix IV: Radium 226 and 228, MW-02

ID: 12_2_4_121

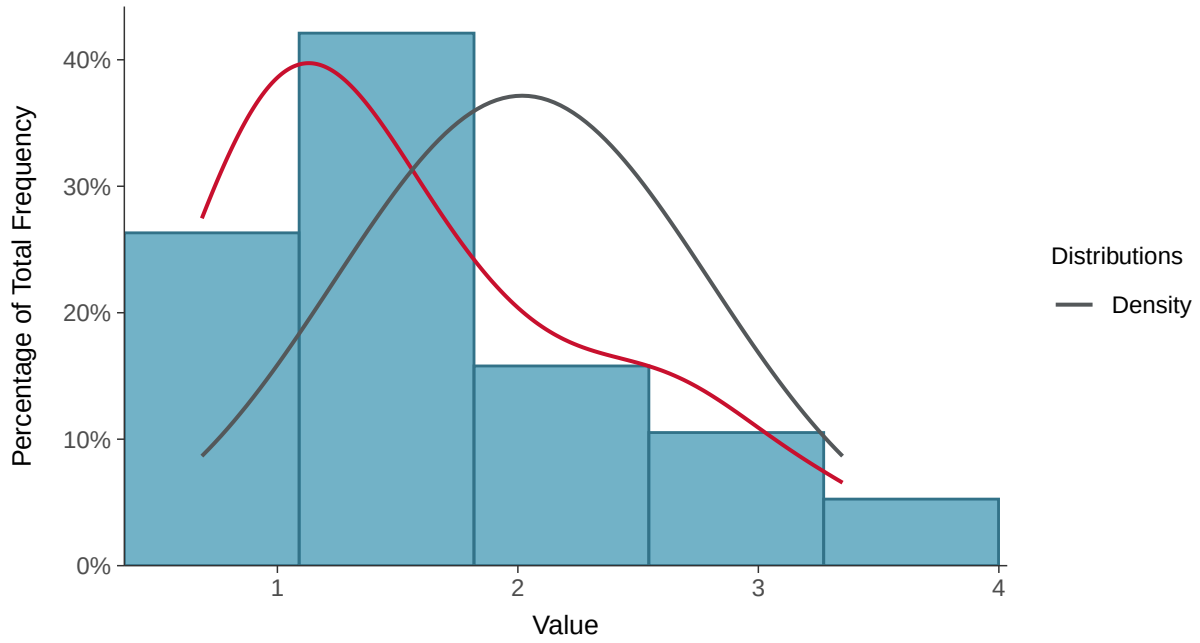
Scatter Plot

Radium 226 and 228, MW-02 (pCi/L)



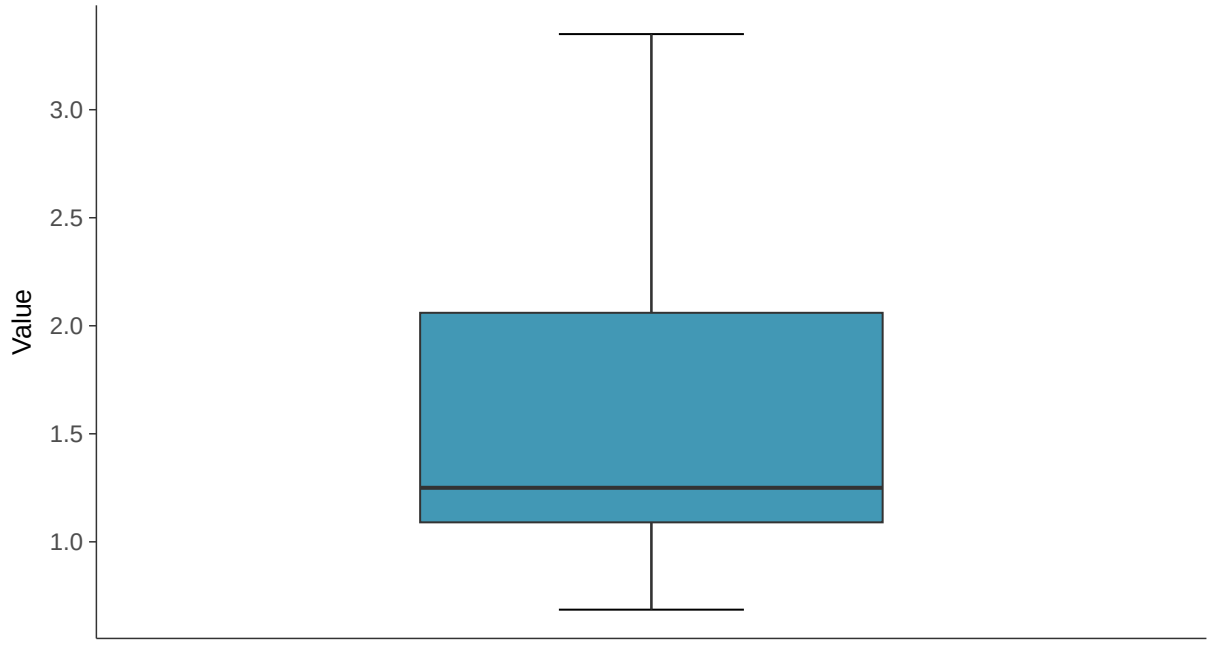
Histogram

Radium 226 and 228, MW-02 (pCi/L)



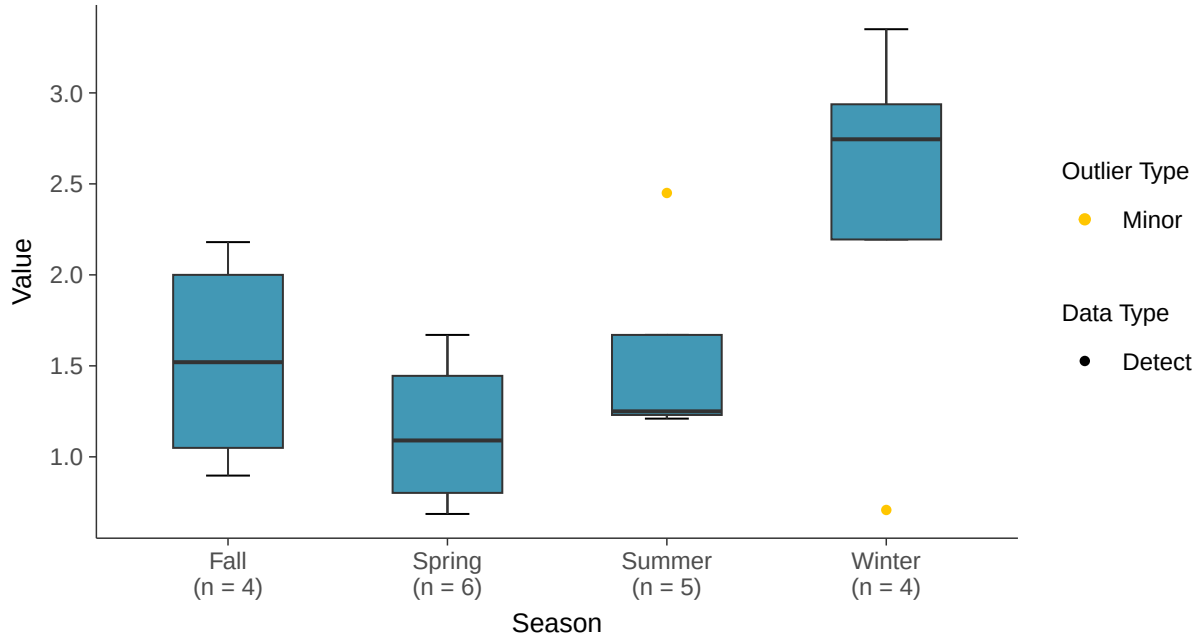
Boxplot

Radium 226 and 228, MW-02 (pCi/L)



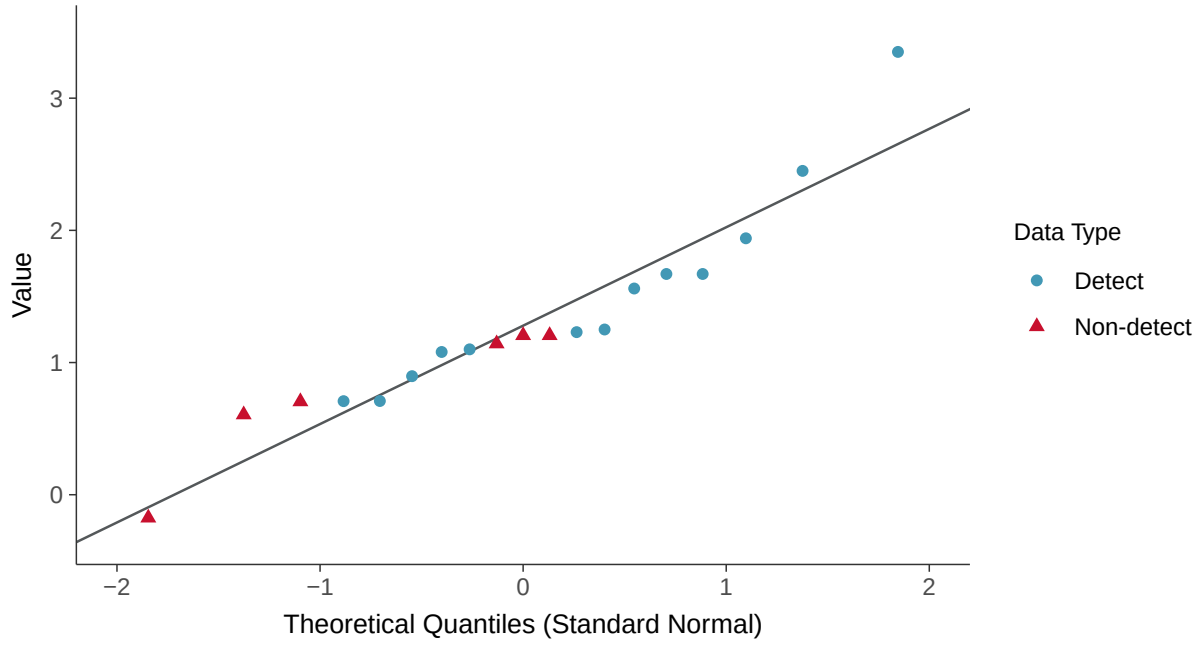
Boxplot by Season

Radium 226 and 228, MW-02 (pCi/L)



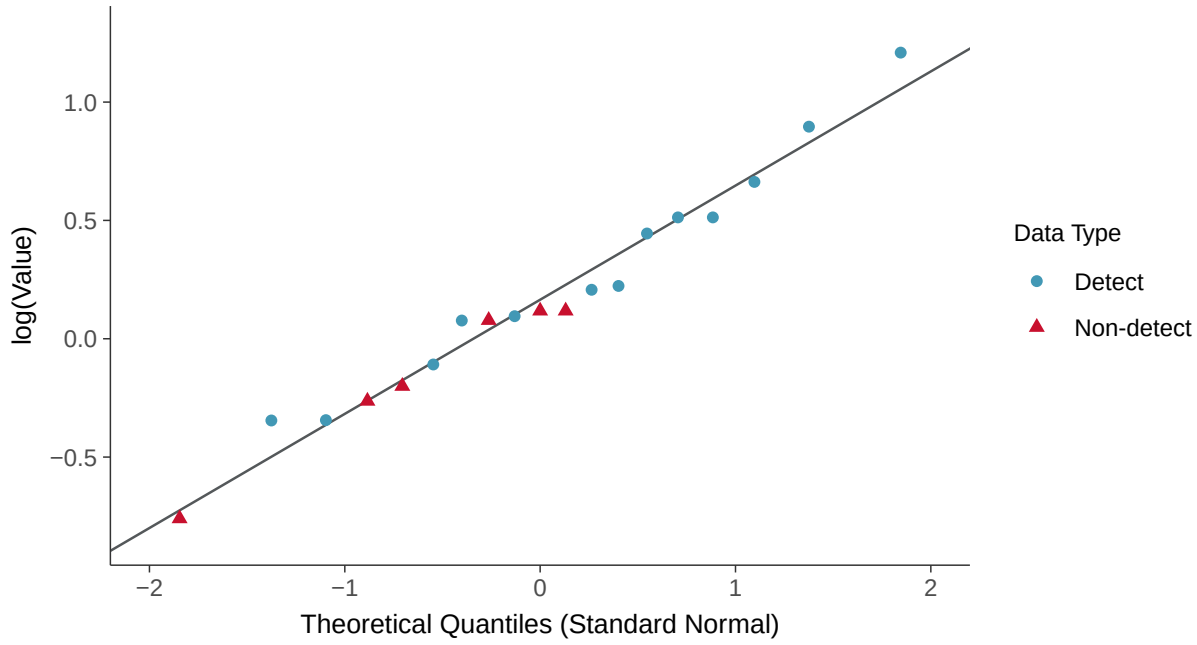
Normal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-02 (pCi/L)



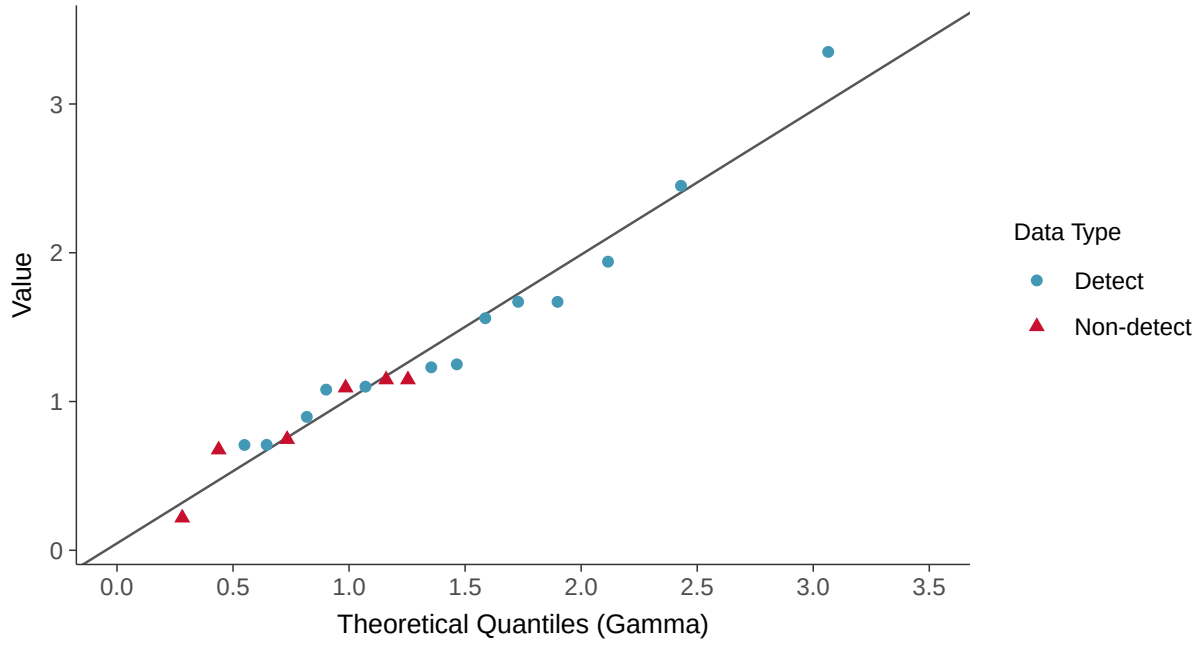
Lognormal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-02 (pCi/L)



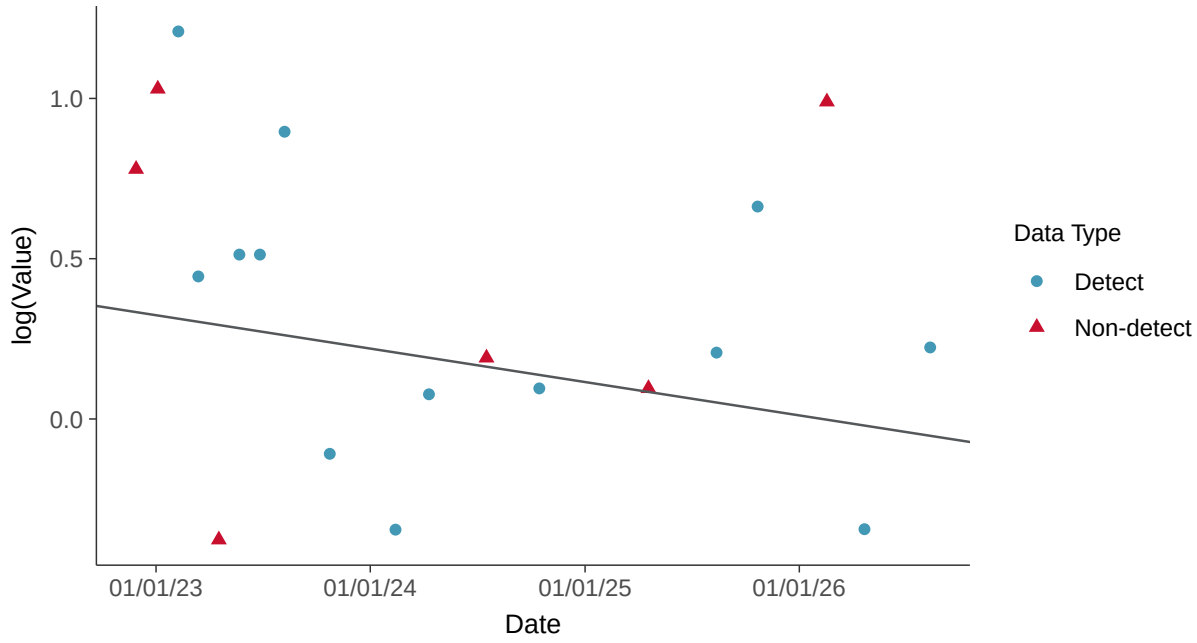
Gamma Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-02 (pCi/L)



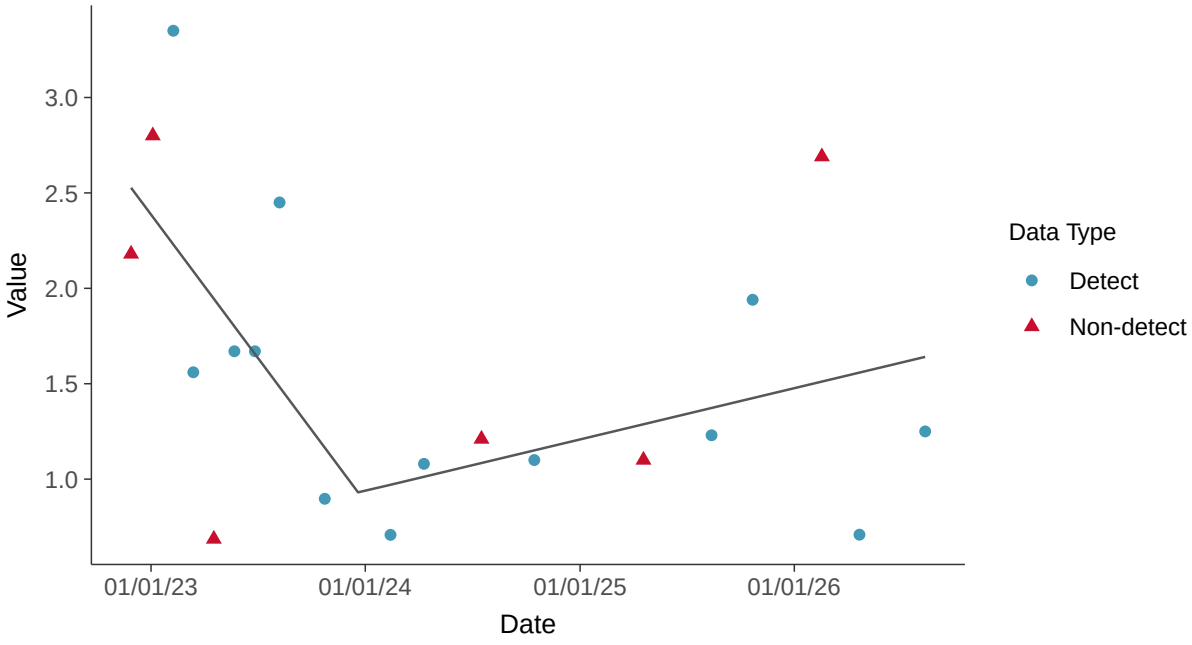
Trend Regression: Lognormal MLE

Radium 226 and 228, MW-02 (pCi/L)



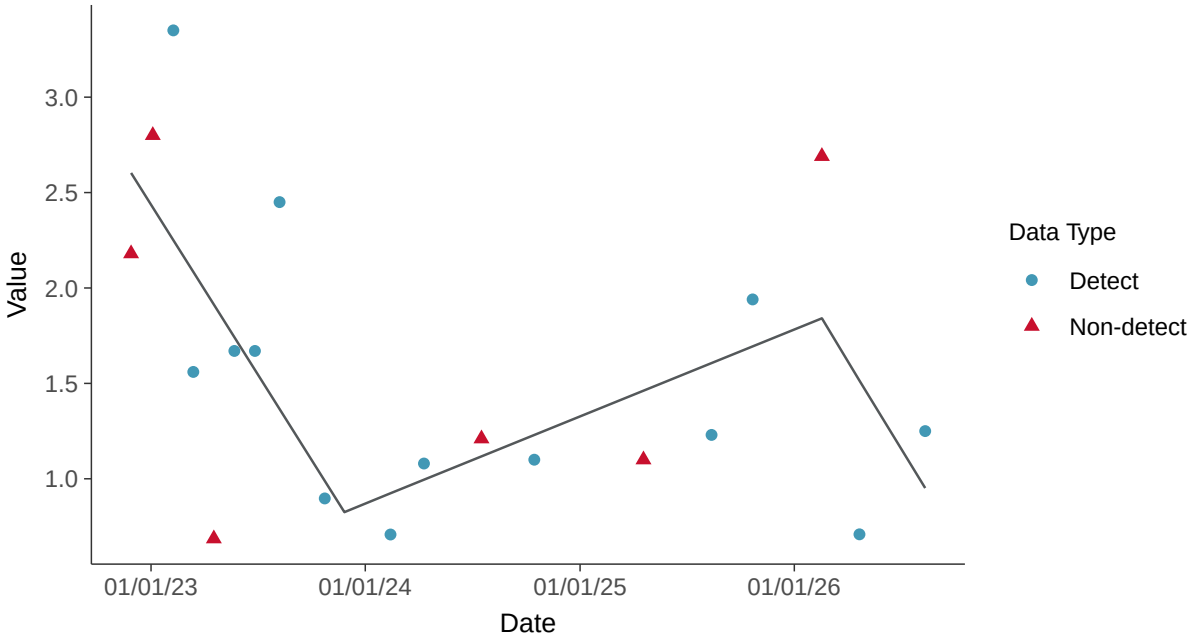
Trend Regression: Piecewise Linear-Linear

Radium 226 and 228, MW-02 (pCi/L)



Trend Regression: Piecewise Linear-Linear-Linear

Radium 226 and 228, MW-02 (pCi/L)

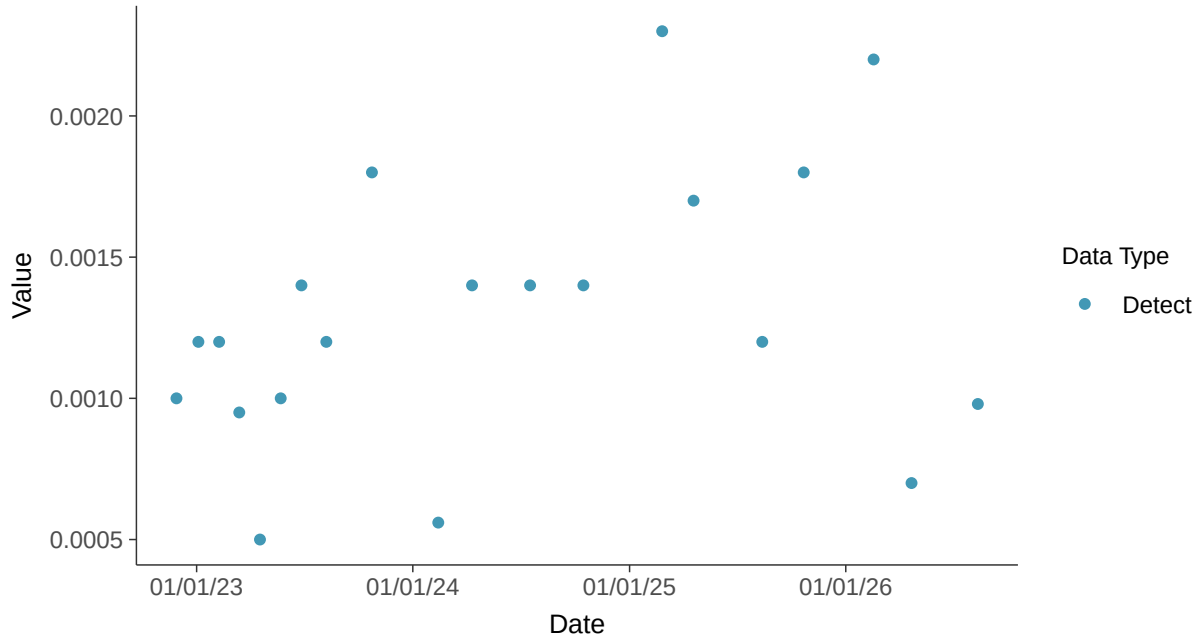


Appendix IV: Selenium, MW-02

ID: 12_2_4_122

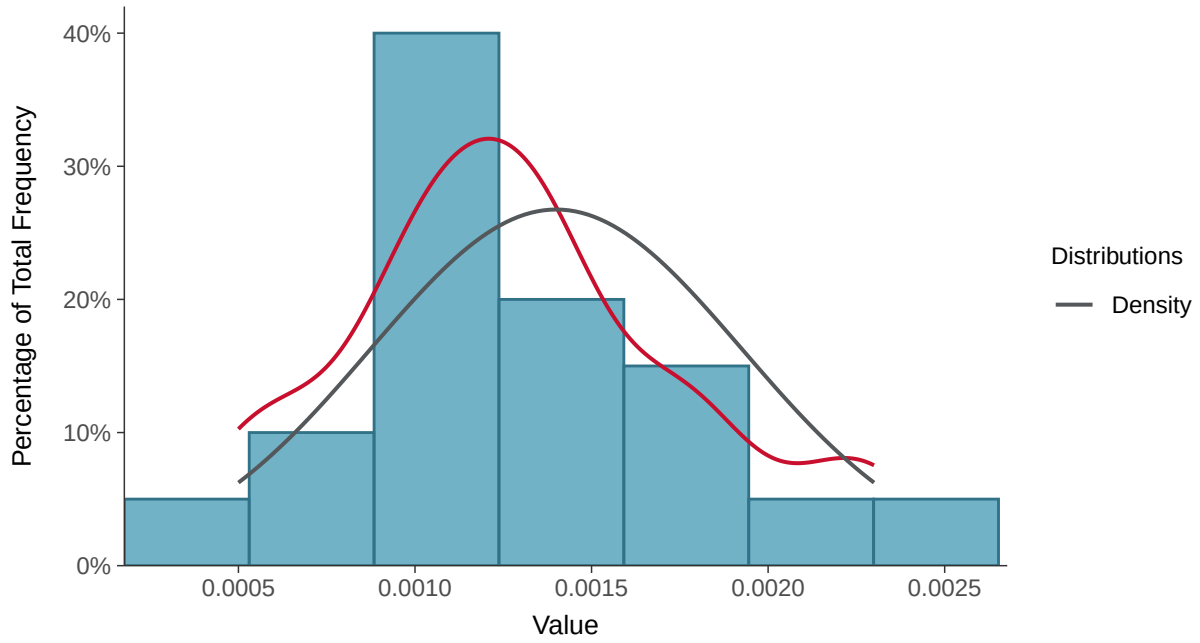
Scatter Plot

Selenium, MW-02 (mg/L)



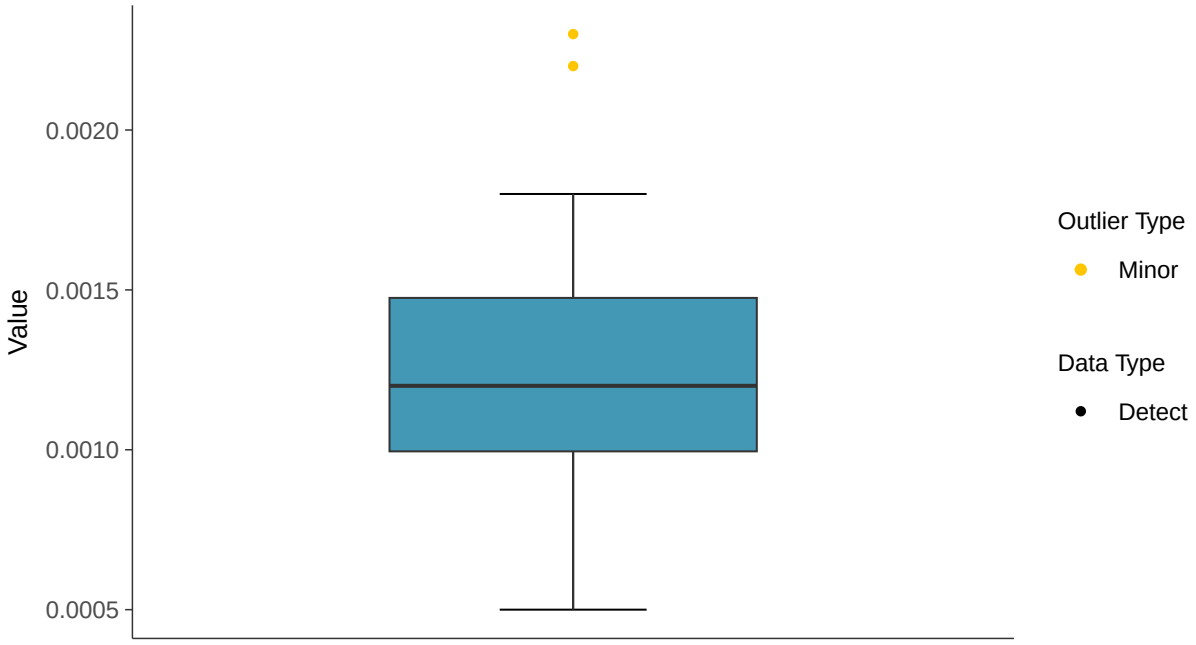
Histogram

Selenium, MW-02 (mg/L)



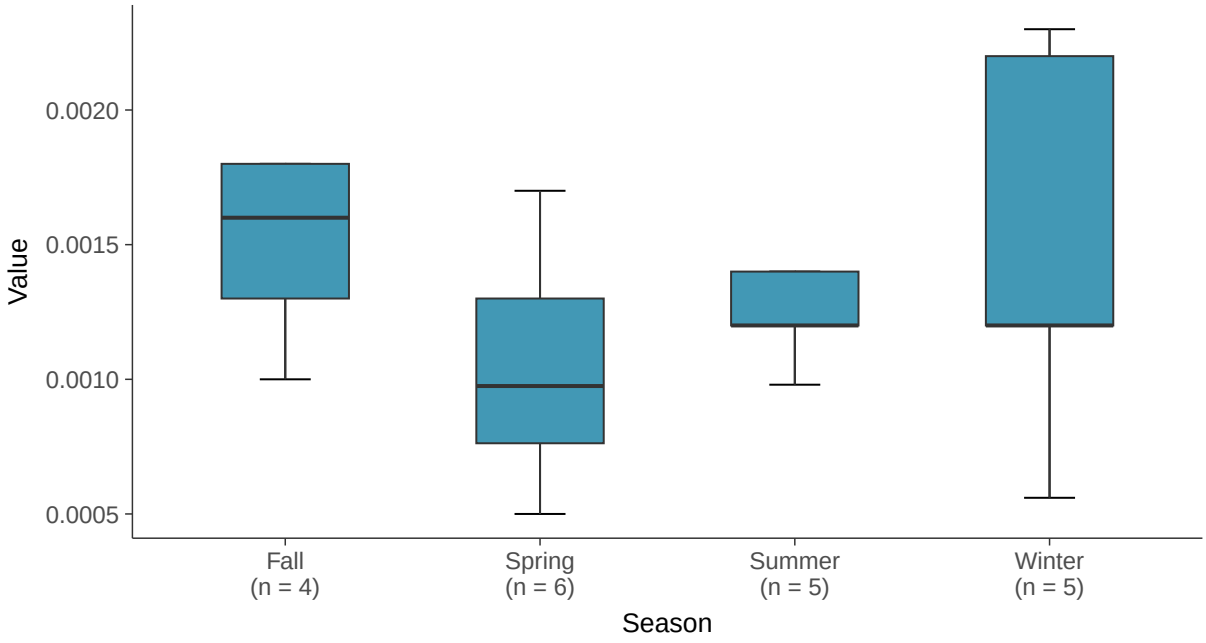
Boxplot

Selenium, MW-02 (mg/L)



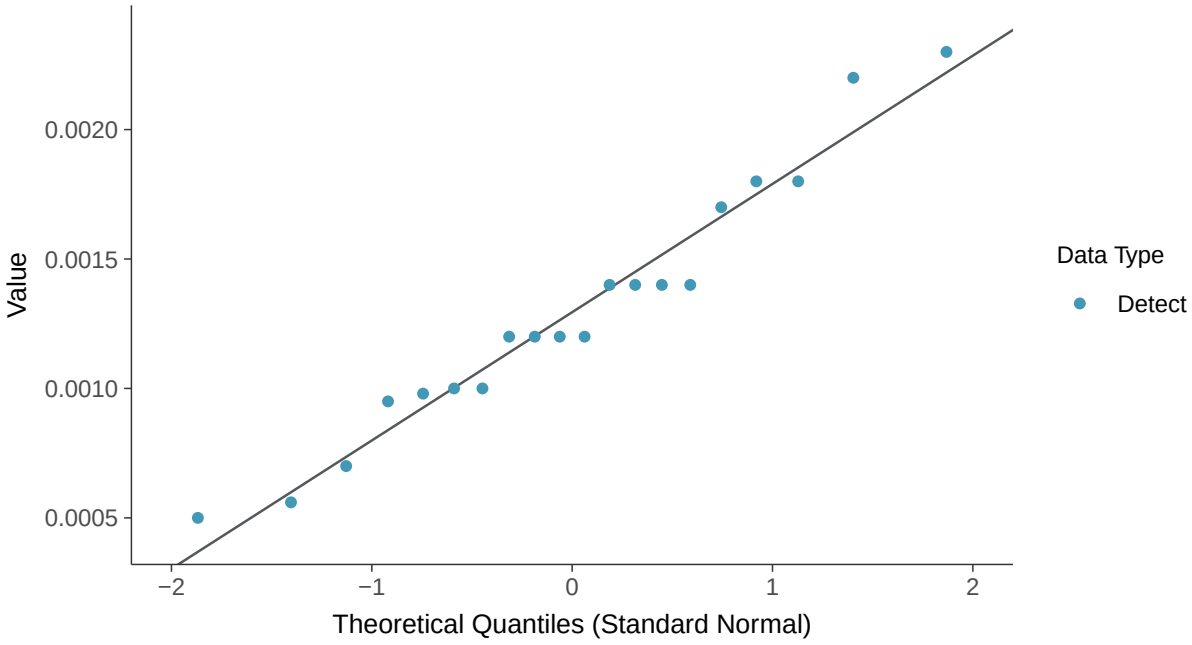
Boxplot by Season

Selenium, MW-02 (mg/L)



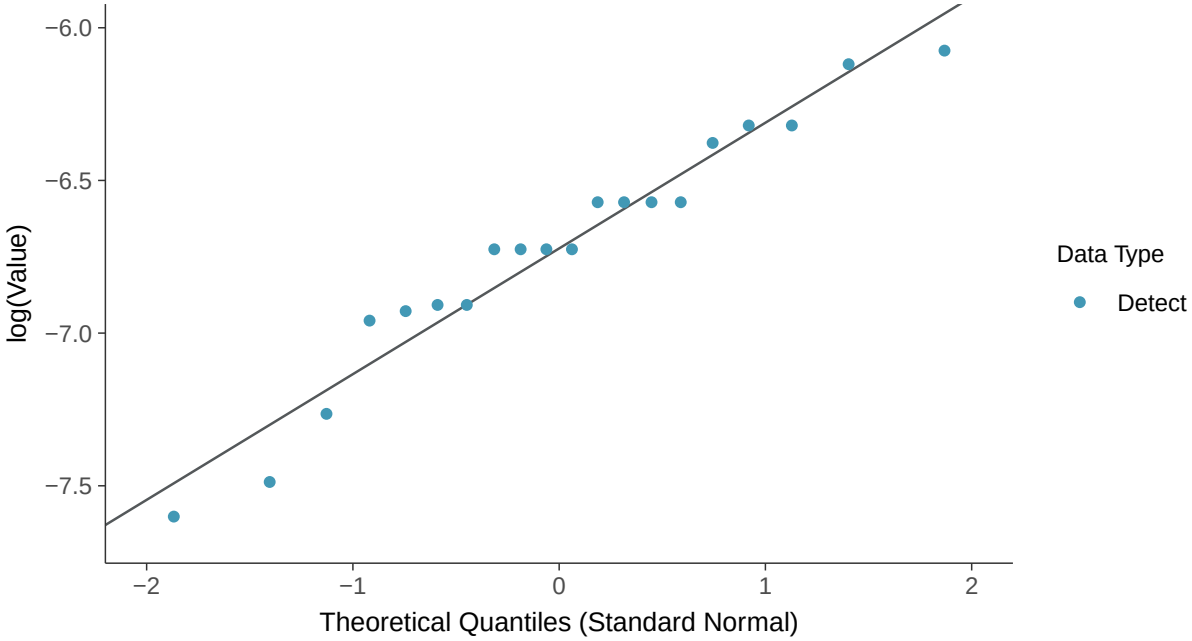
Normal Q-Q plot

Selenium, MW-02 (mg/L)



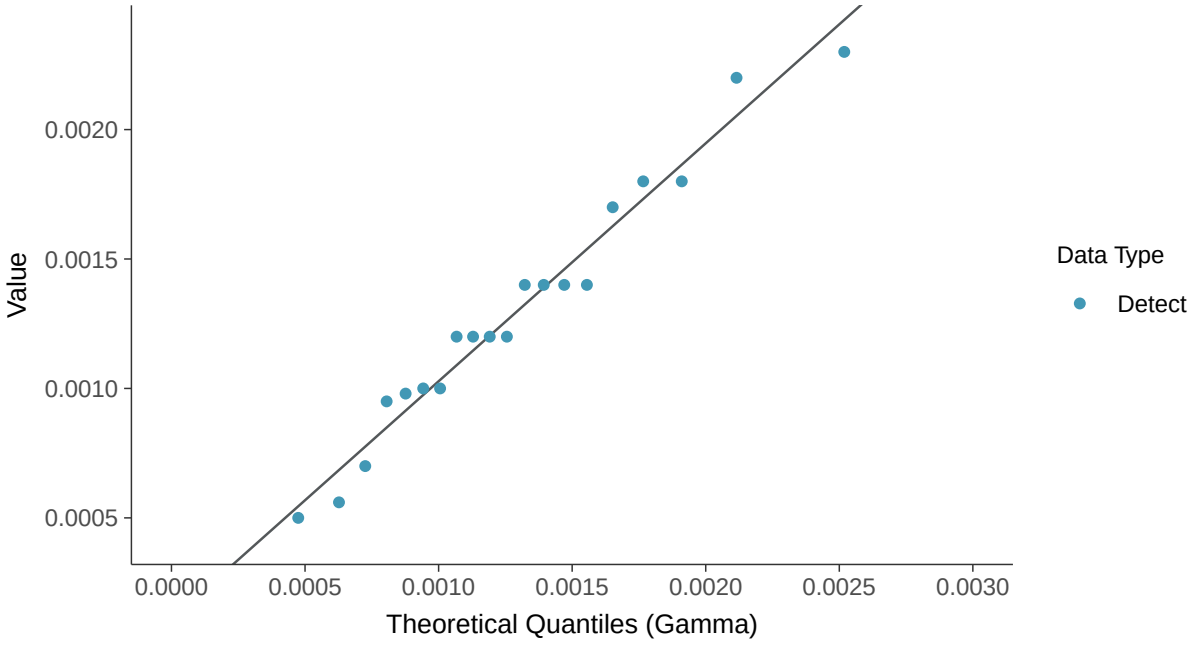
Lognormal Q-Q plot

Selenium, MW-02 (mg/L)



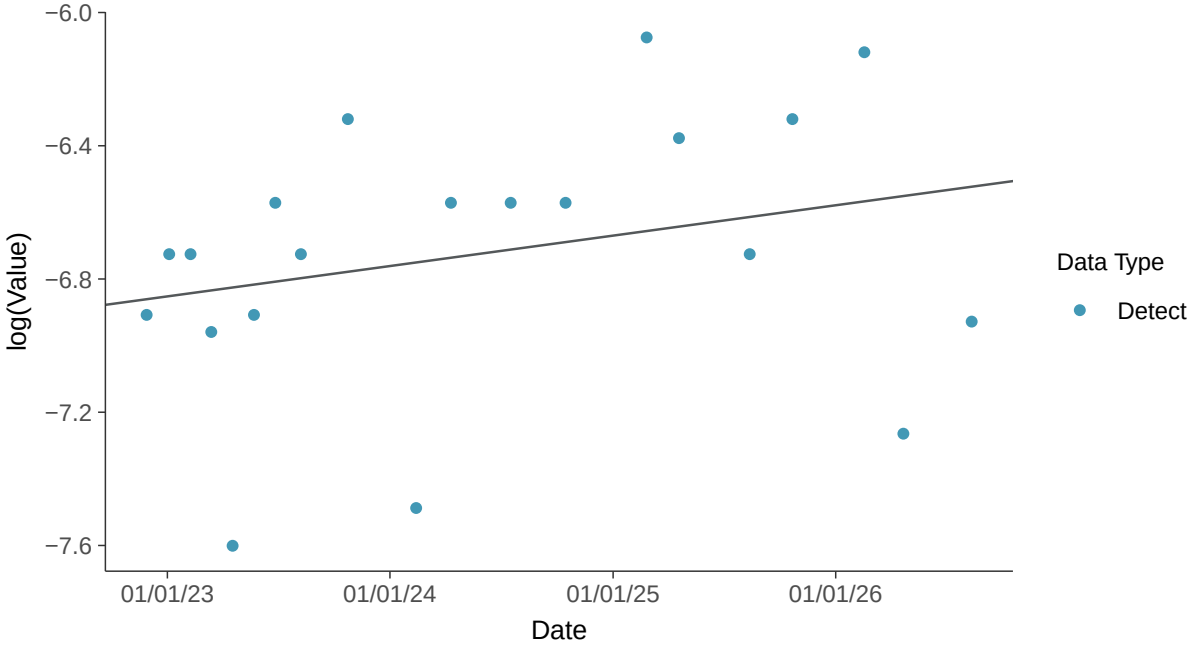
Gamma Q-Q plot

Selenium, MW-02 (mg/L)



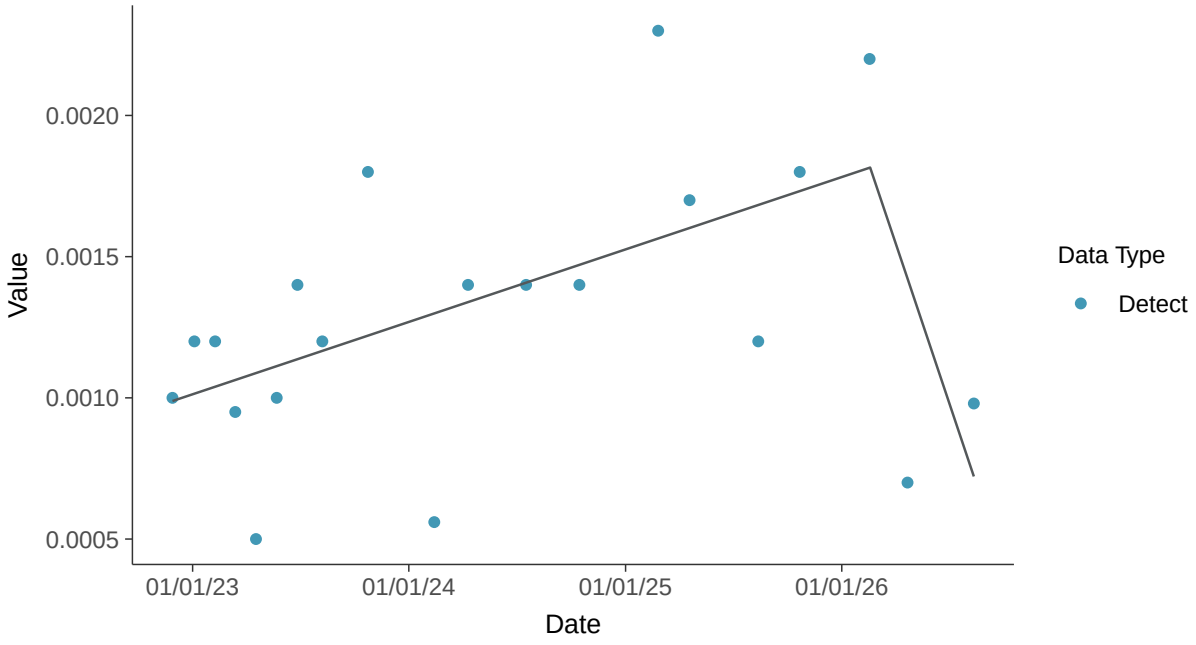
Trend Regression: Lognormal MLE

Selenium, MW-02 (mg/L)



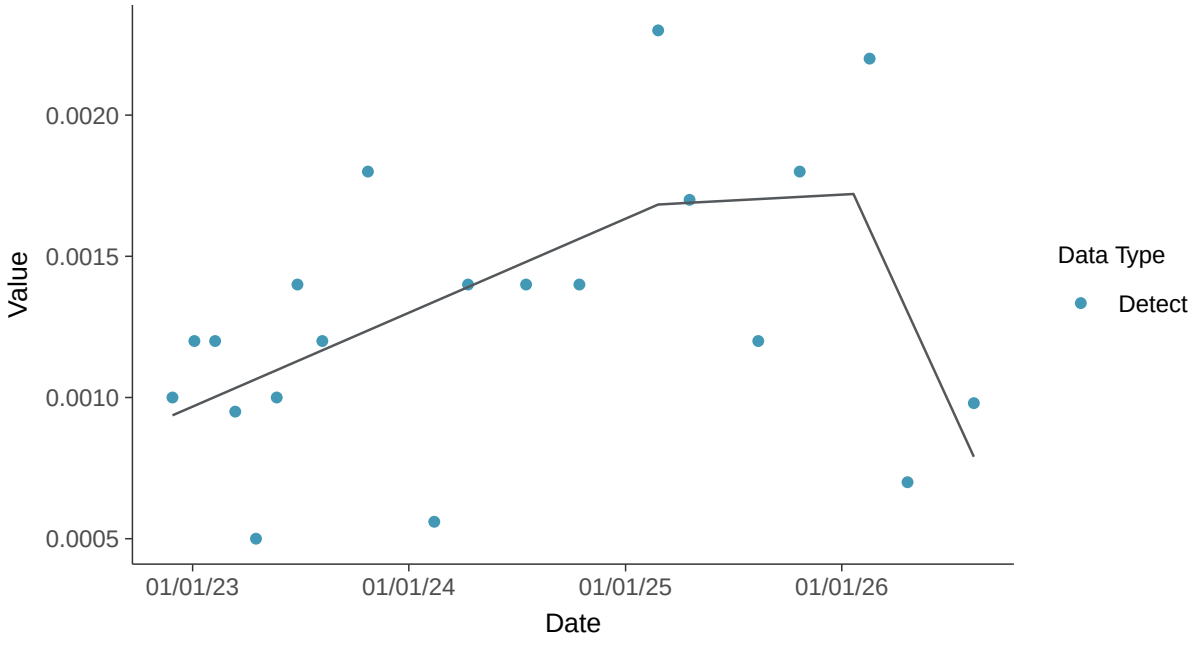
Trend Regression: Piecewise Linear-Linear

Selenium, MW-02 (mg/L)



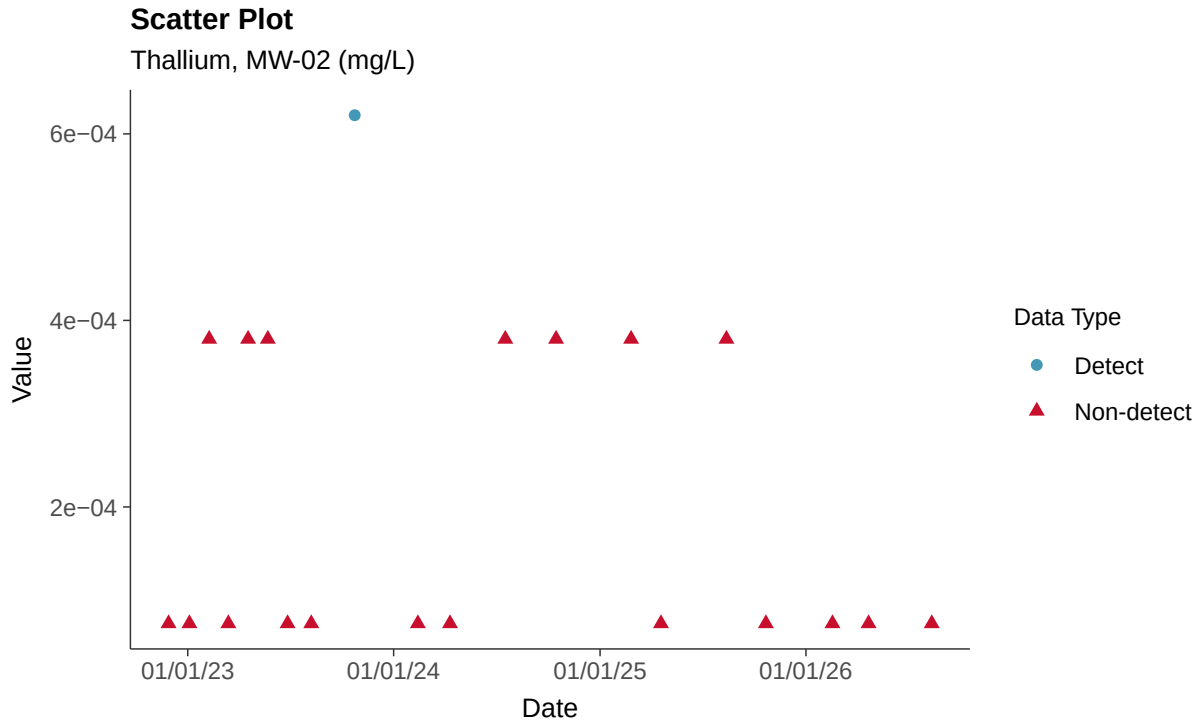
Trend Regression: Piecewise Linear-Linear-Linear

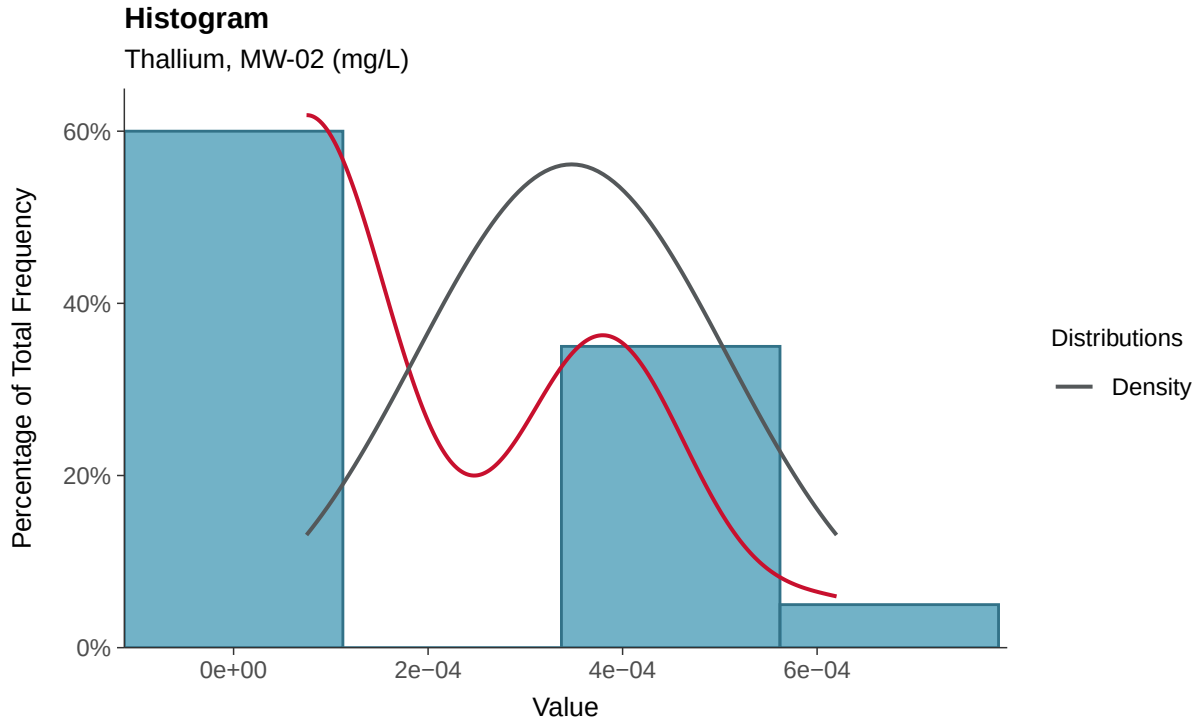
Selenium, MW-02 (mg/L)



Appendix IV: Thallium, MW-02

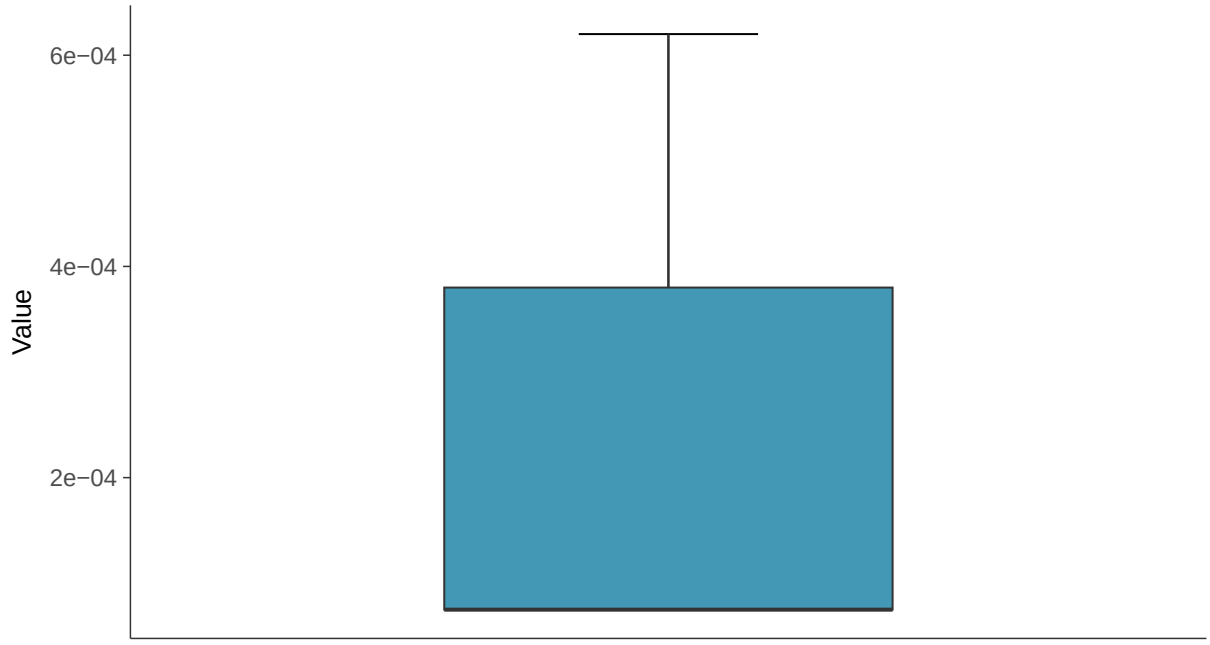
ID: 12_2_4_125





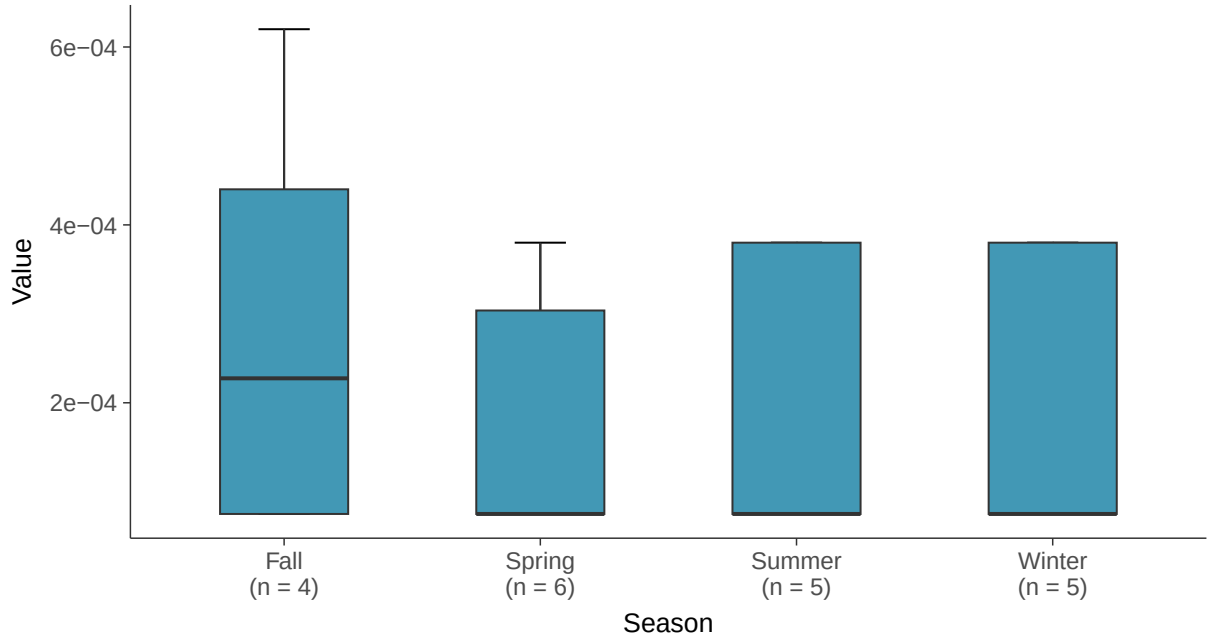
Boxplot

Thallium, MW-02 (mg/L)



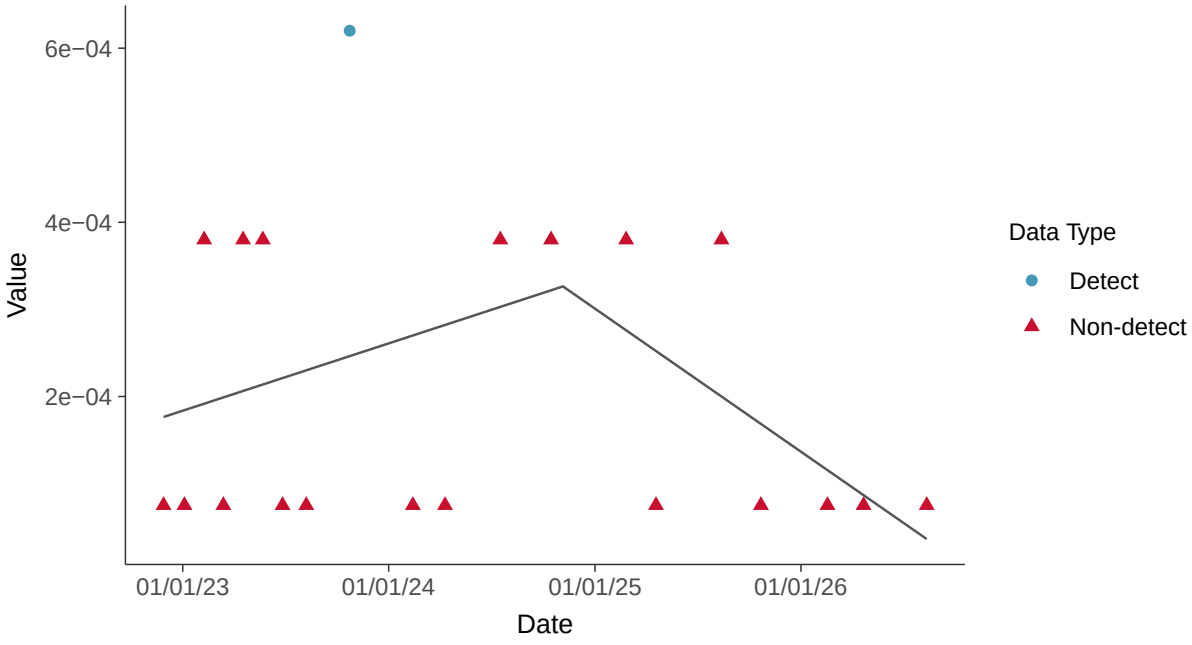
Boxplot by Season

Thallium, MW-02 (mg/L)



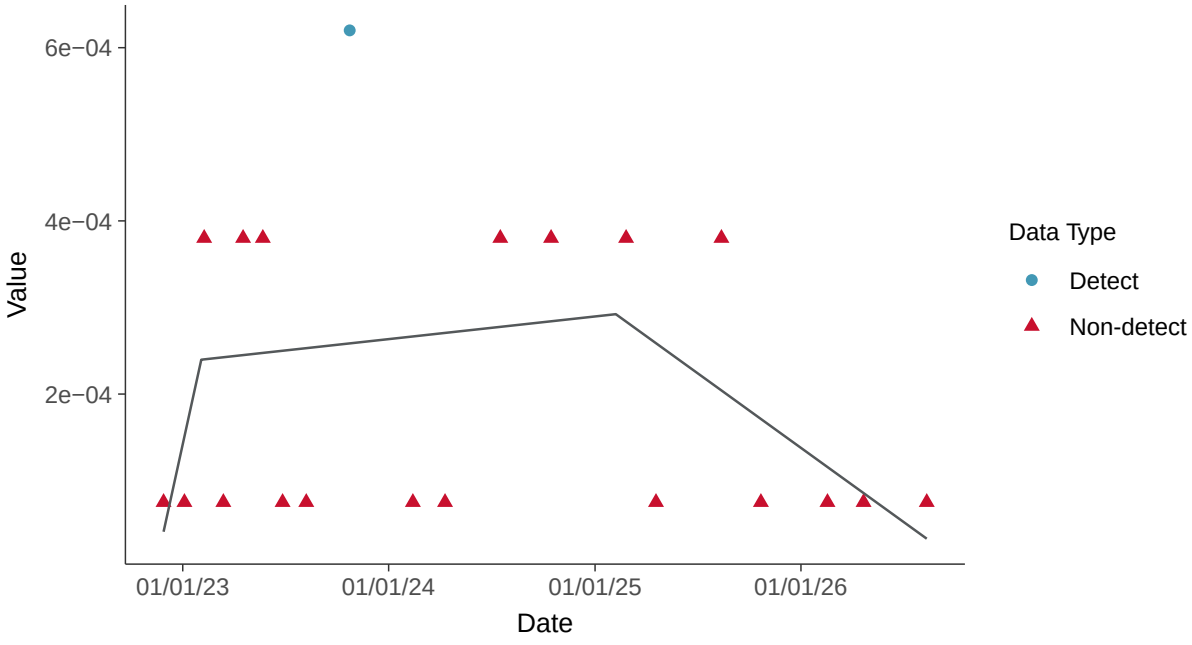
Trend Regression: Piecewise Linear-Linear

Thallium, MW-02 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Thallium, MW-02 (mg/L)

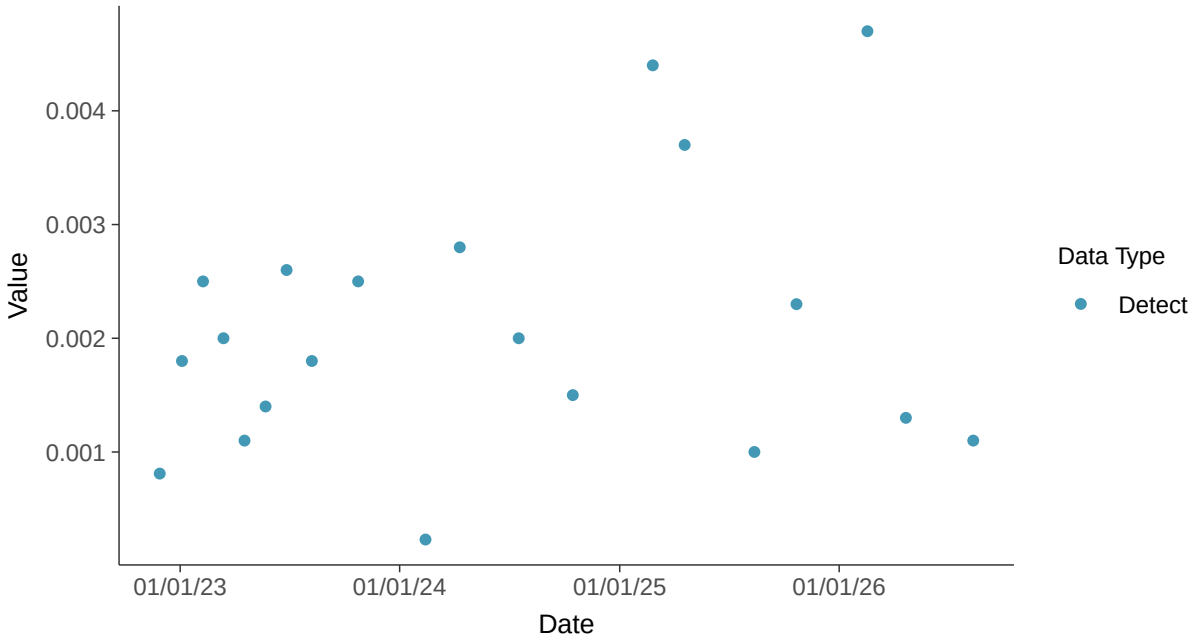


Part 115: Copper, MW-02

ID: 12_2_5_111

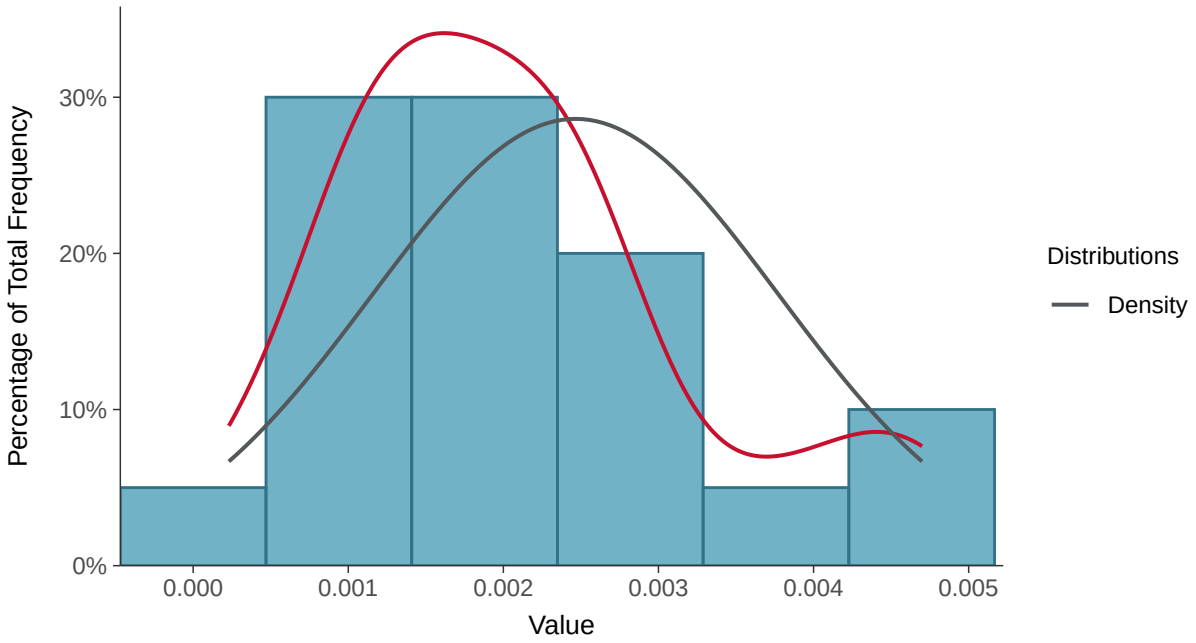
Scatter Plot

Copper, MW-02 (mg/L)



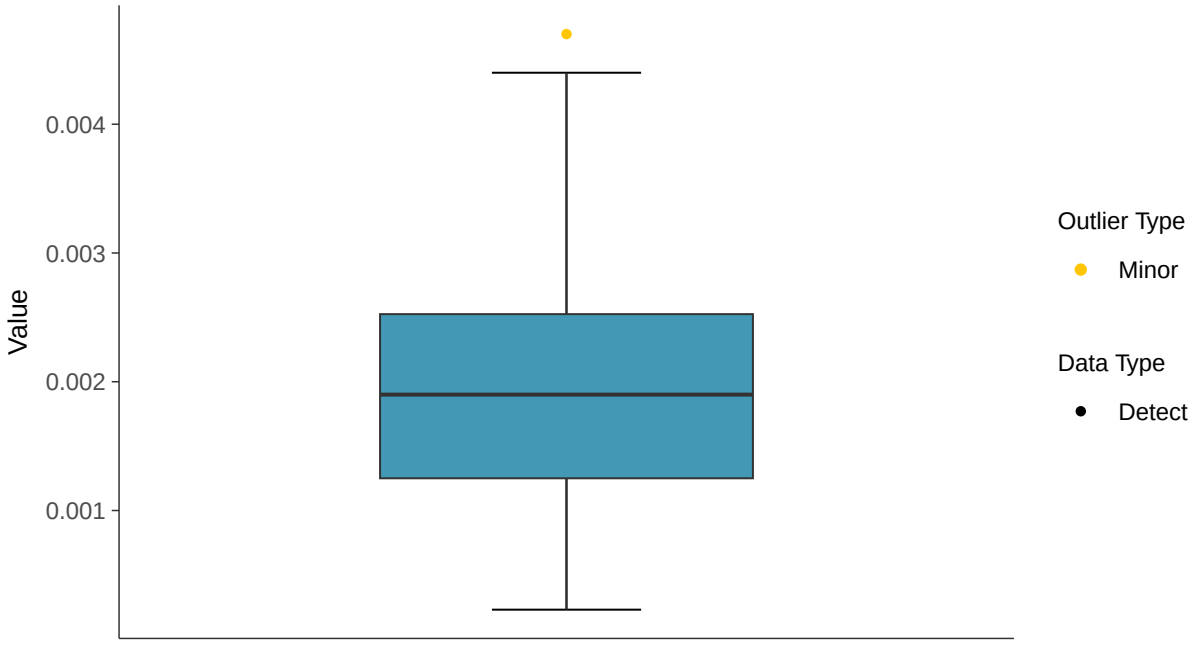
Histogram

Copper, MW-02 (mg/L)



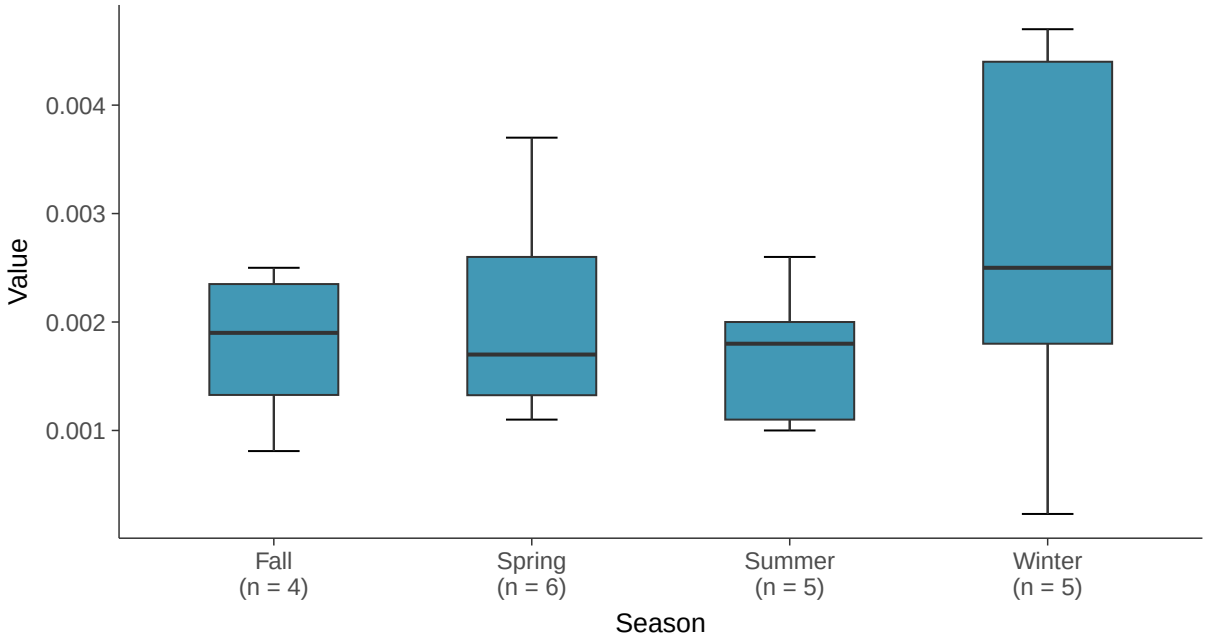
Boxplot

Copper, MW-02 (mg/L)



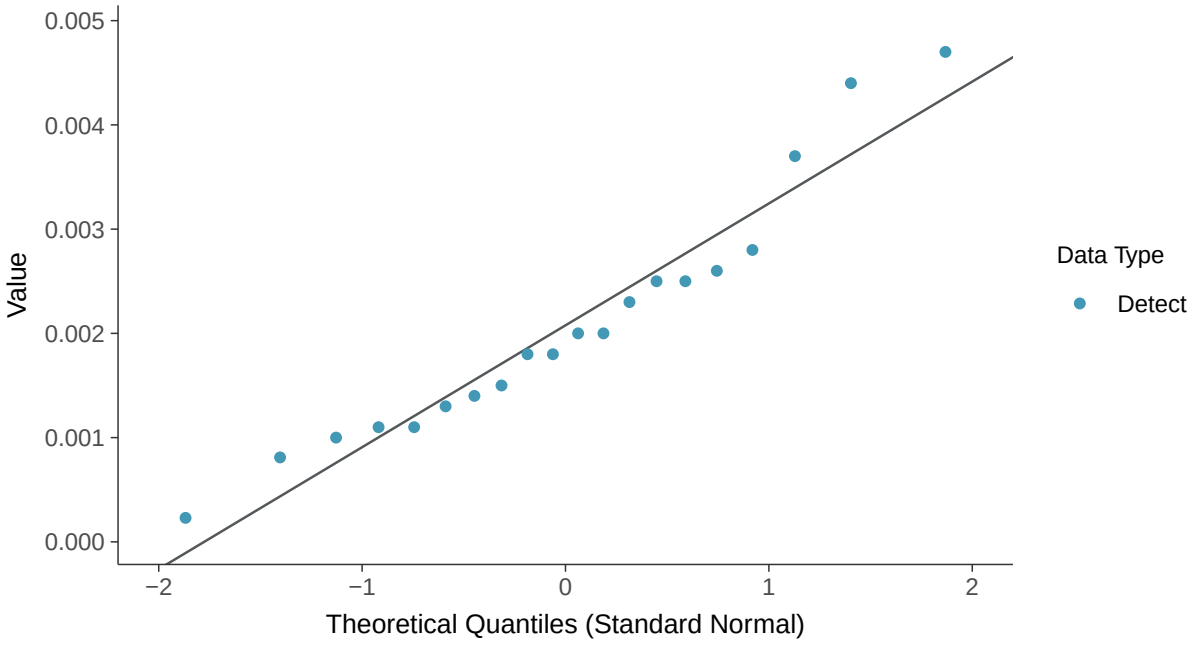
Boxplot by Season

Copper, MW-02 (mg/L)



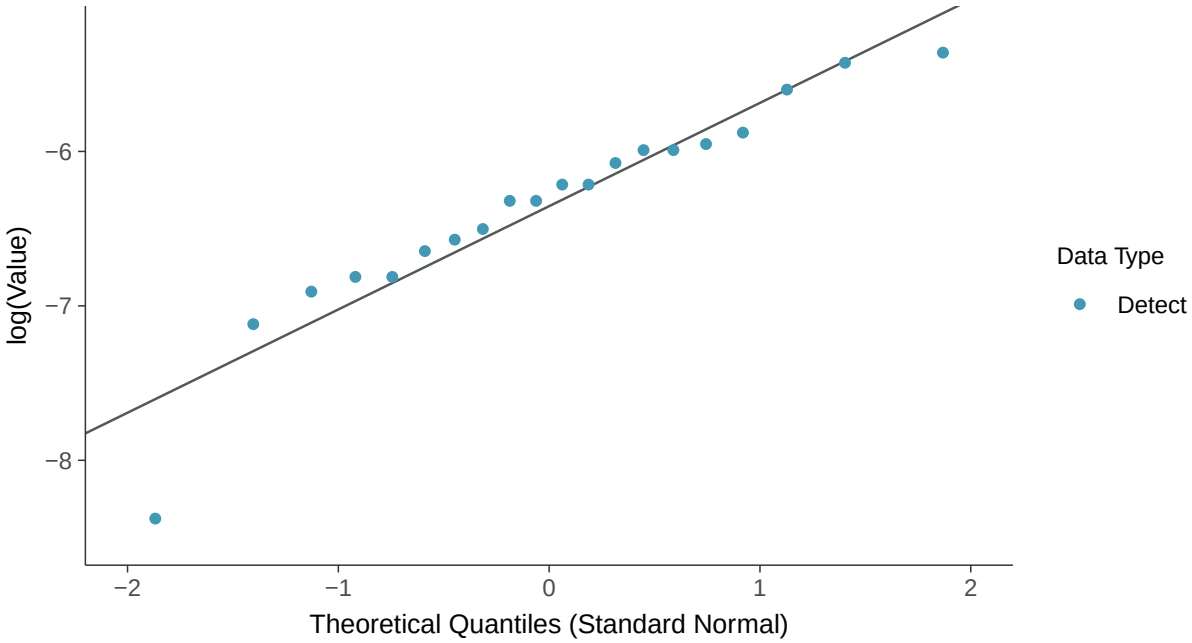
Normal Q-Q plot

Copper, MW-02 (mg/L)



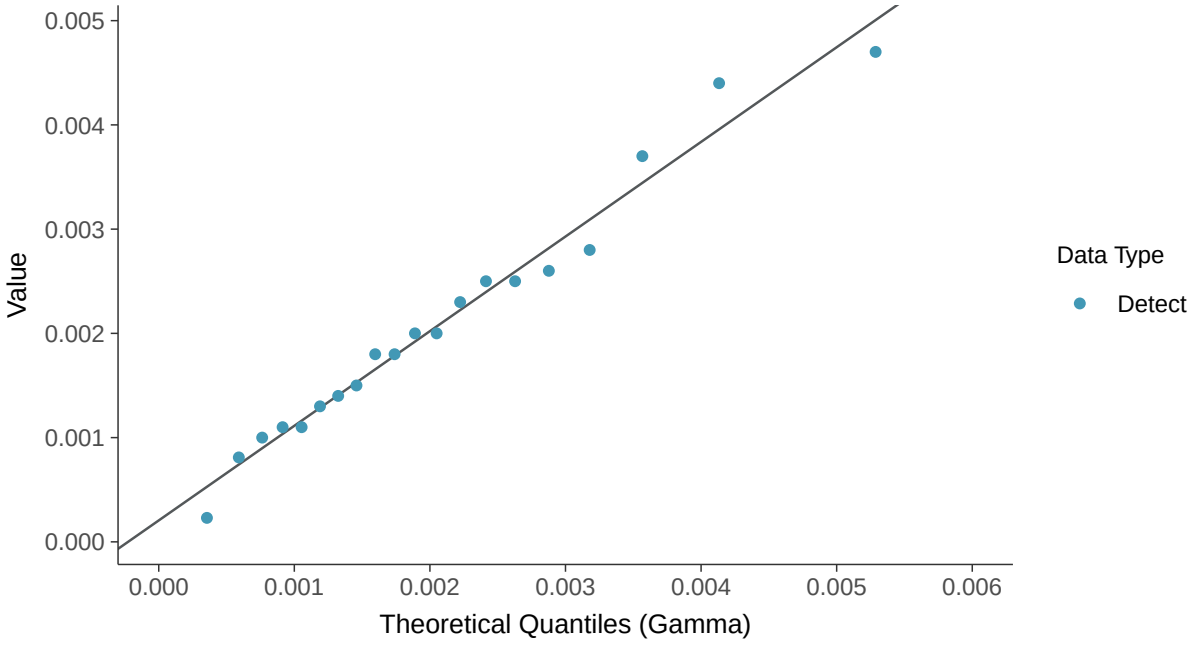
Lognormal Q-Q plot

Copper, MW-02 (mg/L)



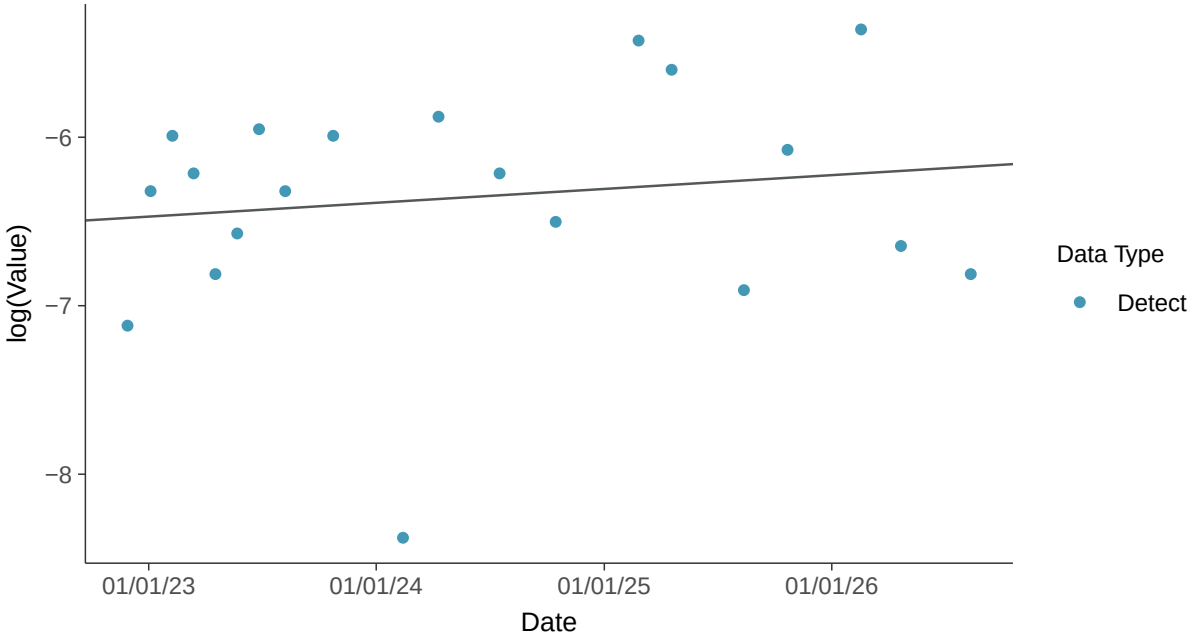
Gamma Q-Q plot

Copper, MW-02 (mg/L)



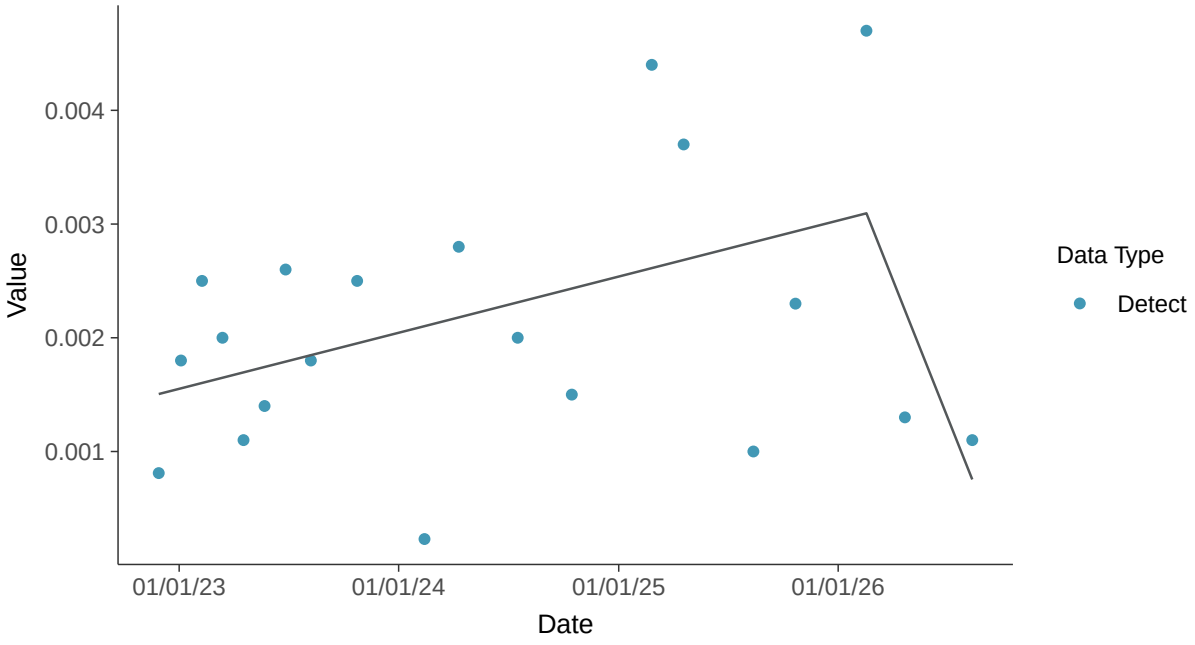
Trend Regression: Lognormal MLE

Copper, MW-02 (mg/L)



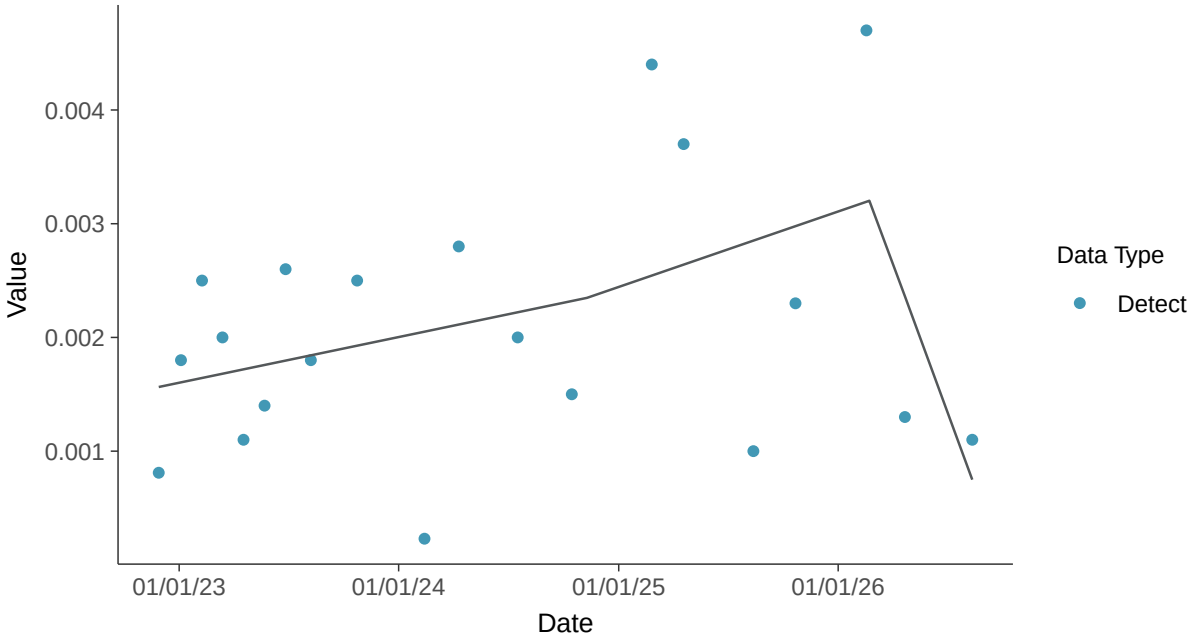
Trend Regression: Piecewise Linear-Linear

Copper, MW-02 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Copper, MW-02 (mg/L)

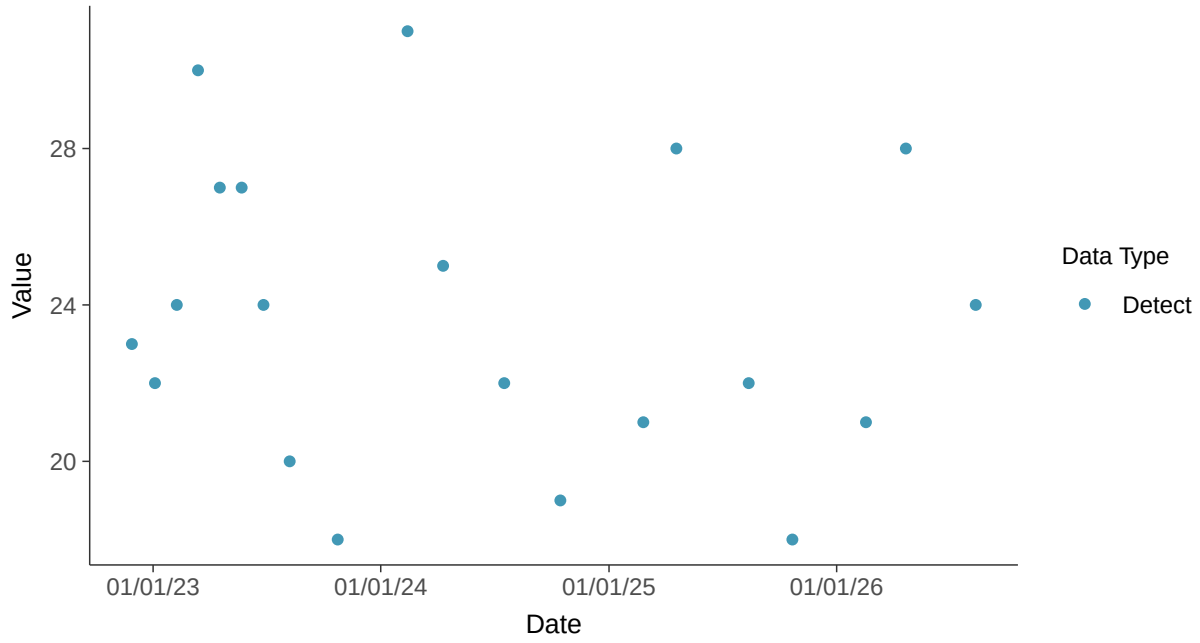


Part 115: Iron, MW-02

ID: 12_2_5_114

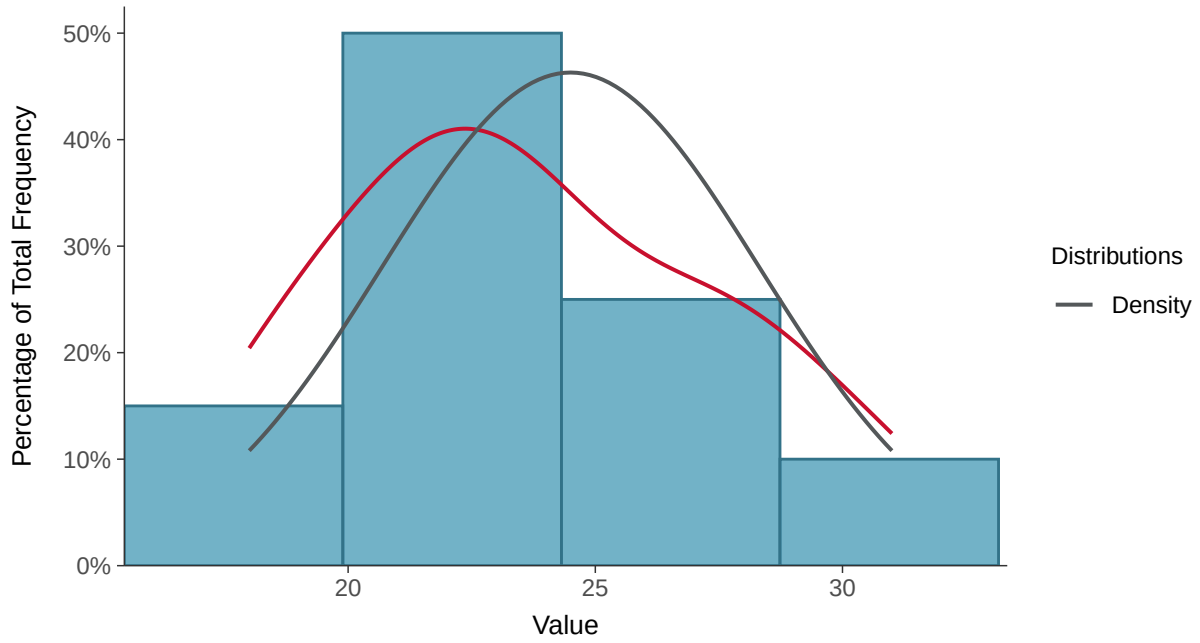
Scatter Plot

Iron, MW-02 (mg/L)



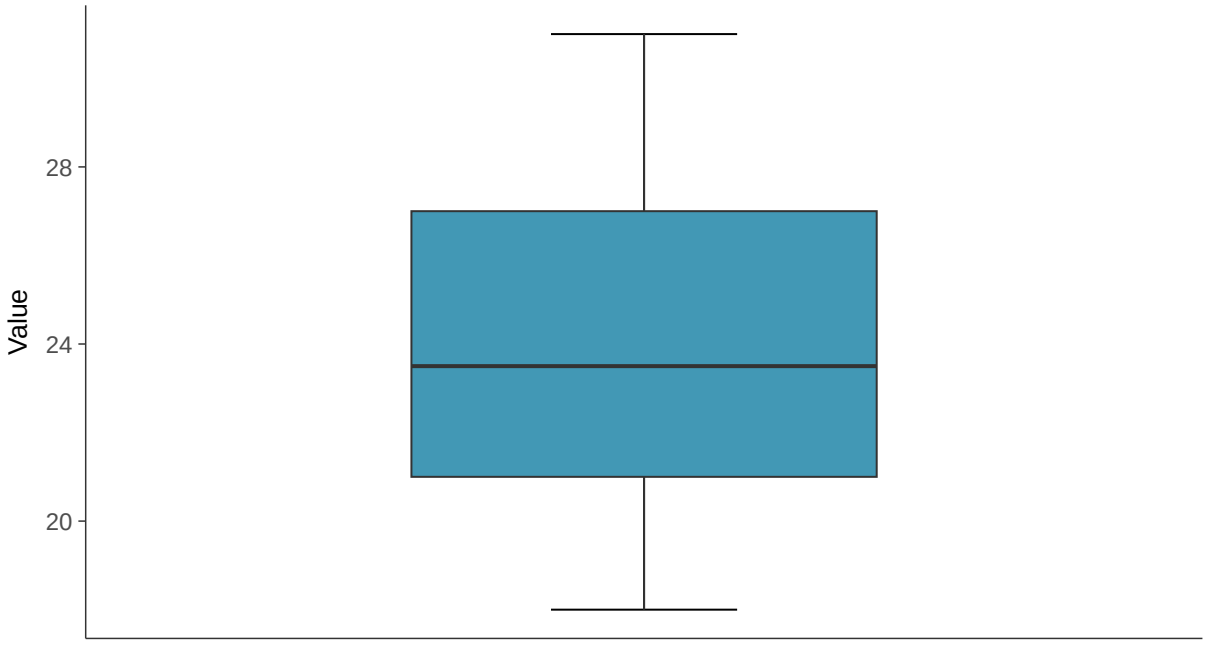
Histogram

Iron, MW-02 (mg/L)



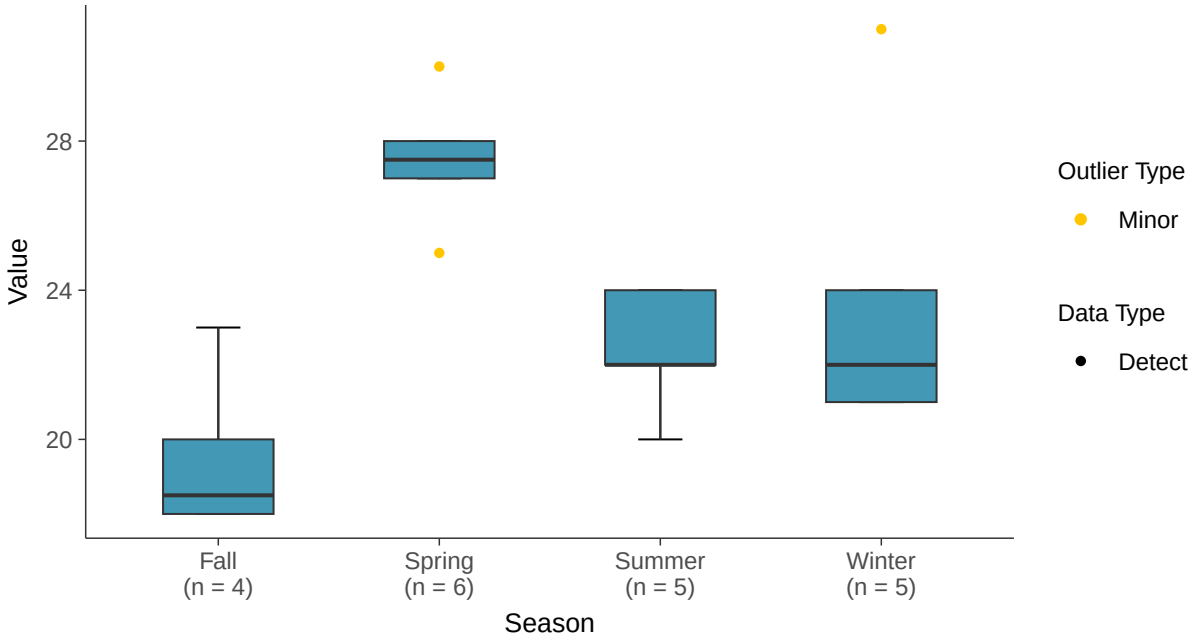
Boxplot

Iron, MW-02 (mg/L)



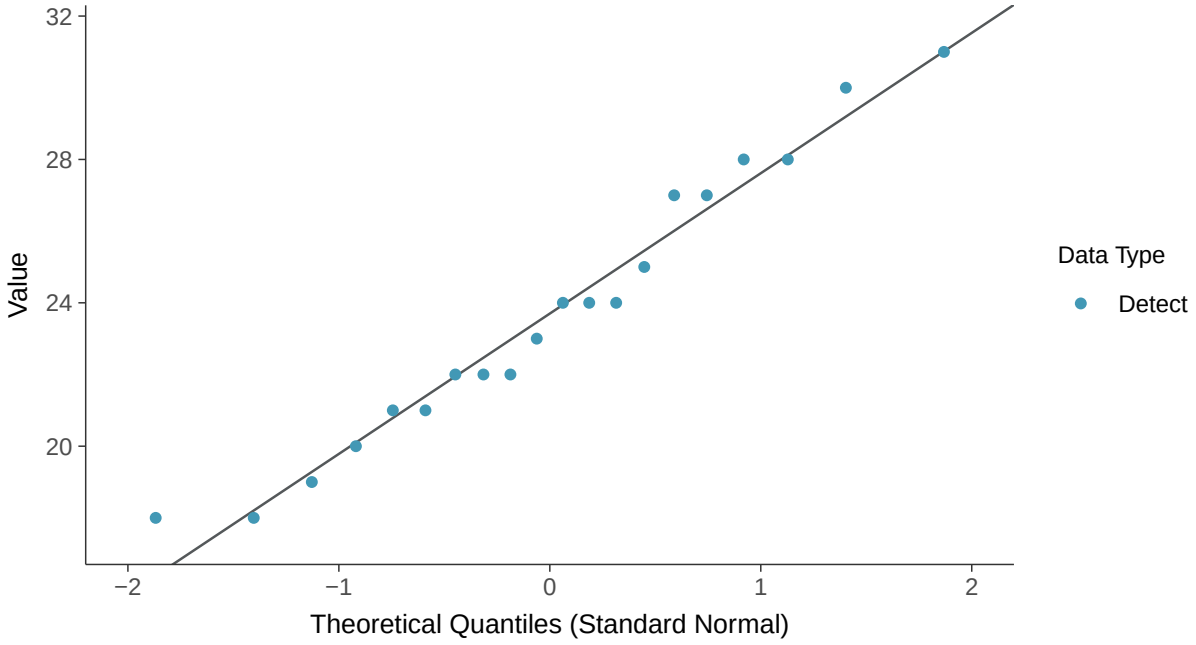
Boxplot by Season

Iron, MW-02 (mg/L)



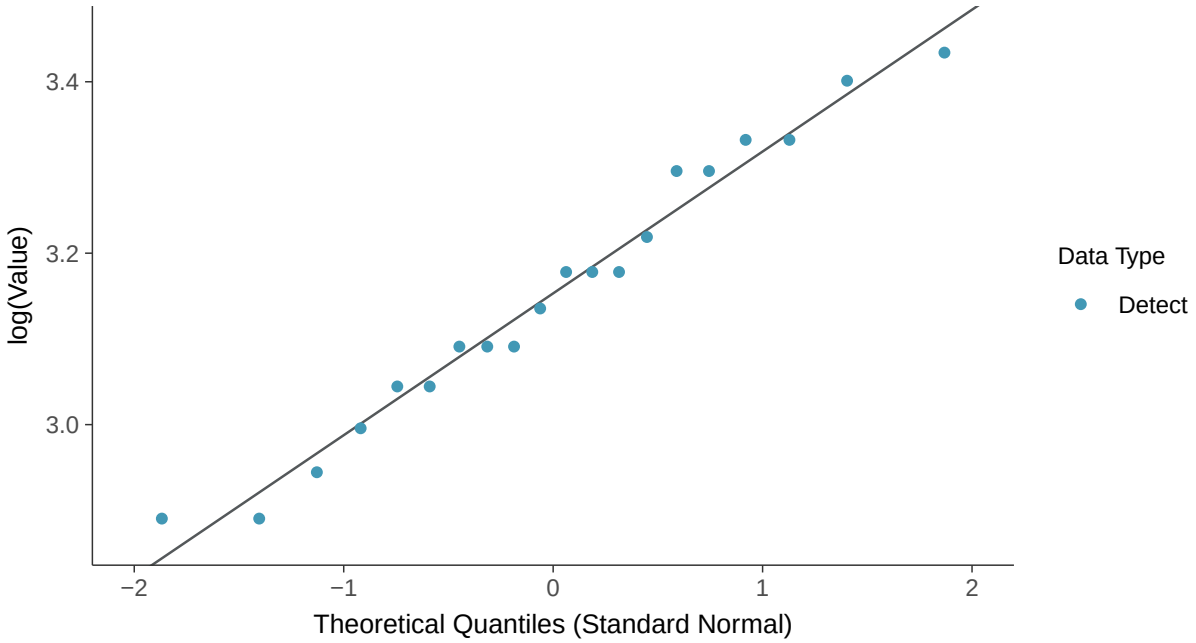
Normal Q-Q plot

Iron, MW-02 (mg/L)



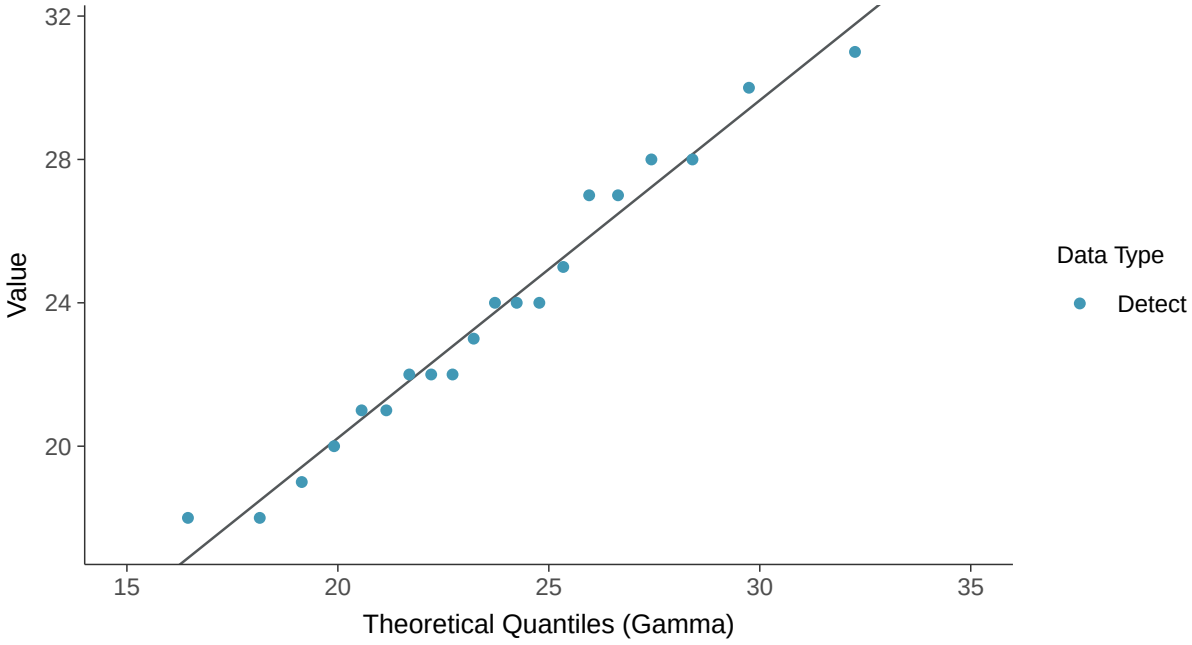
Lognormal Q-Q plot

Iron, MW-02 (mg/L)



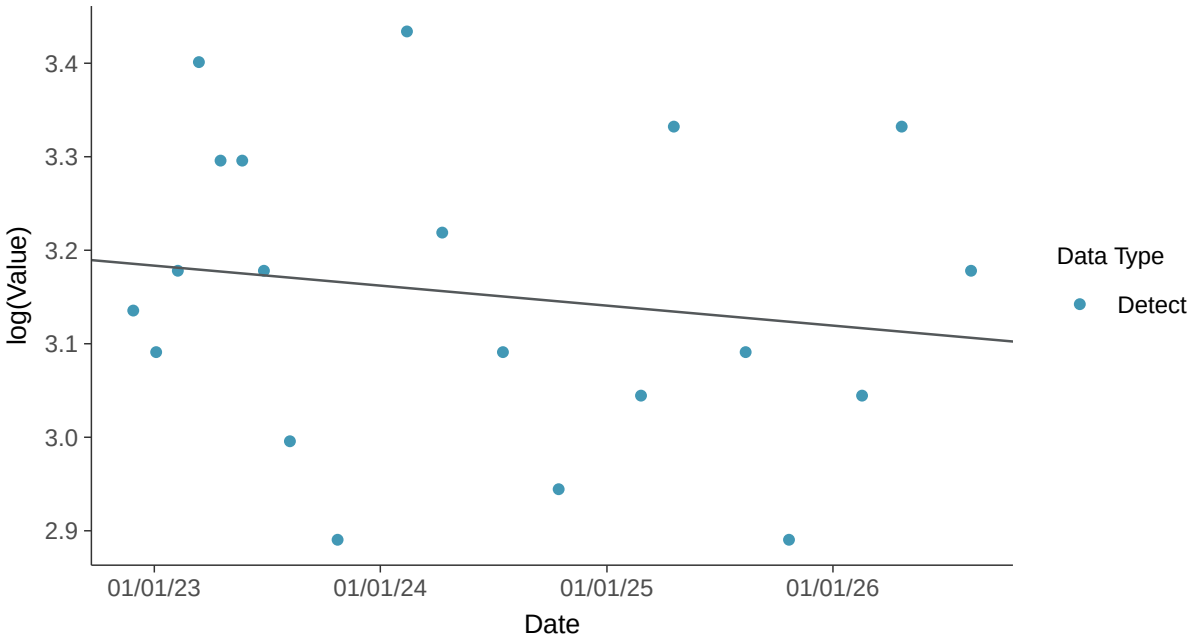
Gamma Q-Q plot

Iron, MW-02 (mg/L)



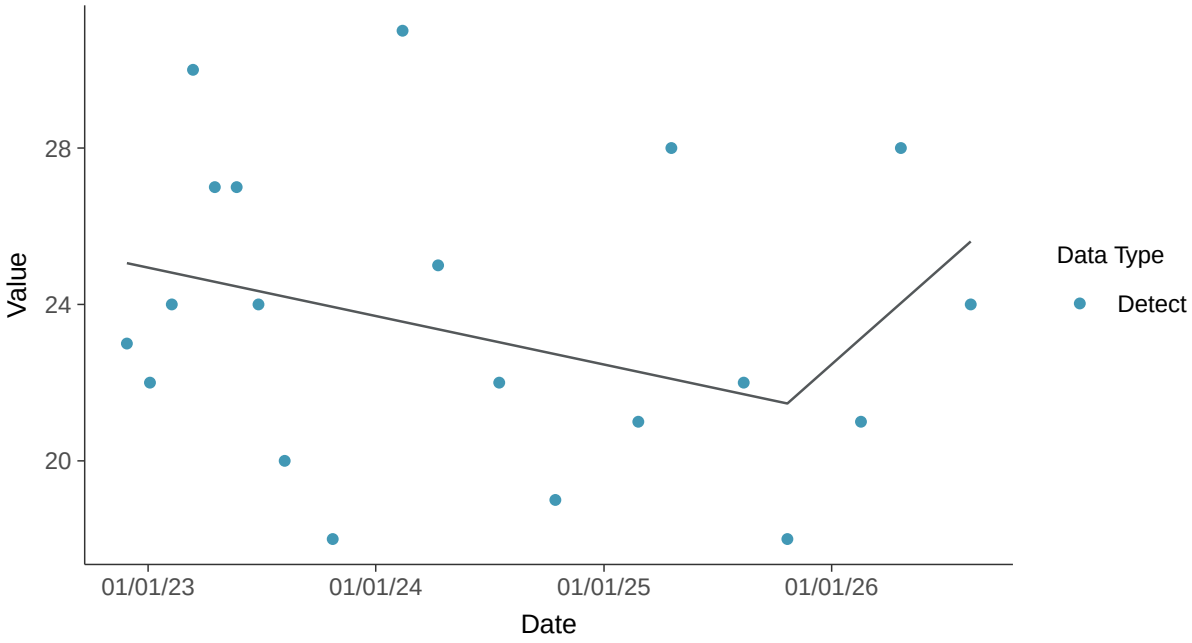
Trend Regression: Lognormal MLE

Iron, MW-02 (mg/L)



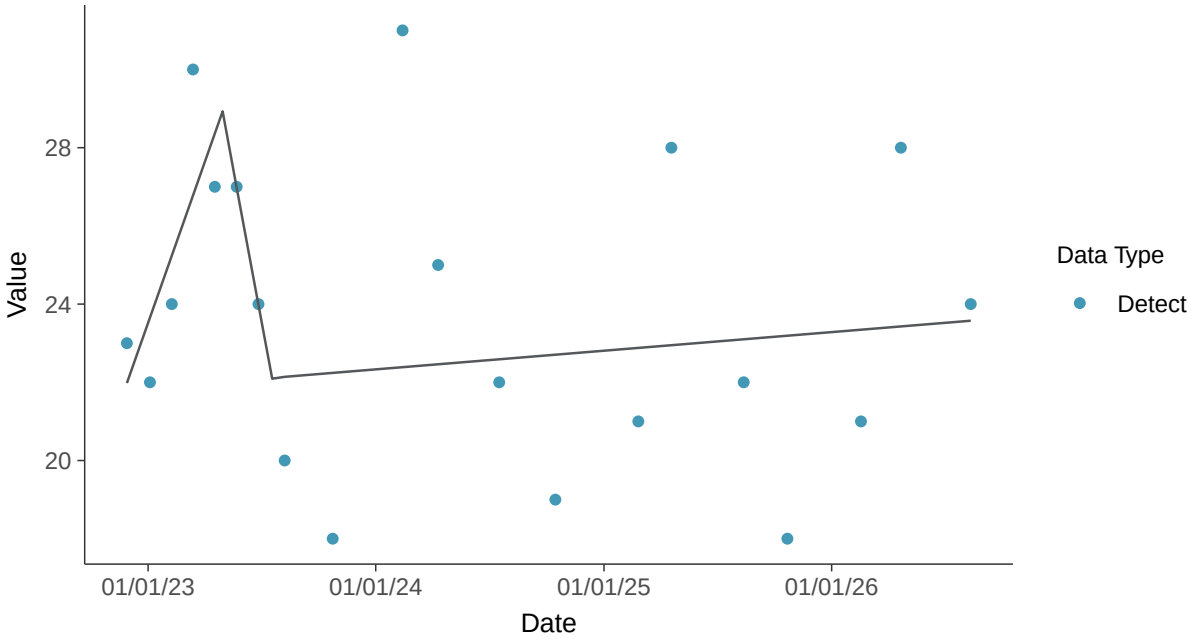
Trend Regression: Piecewise Linear-Linear

Iron, MW-02 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Iron, MW-02 (mg/L)

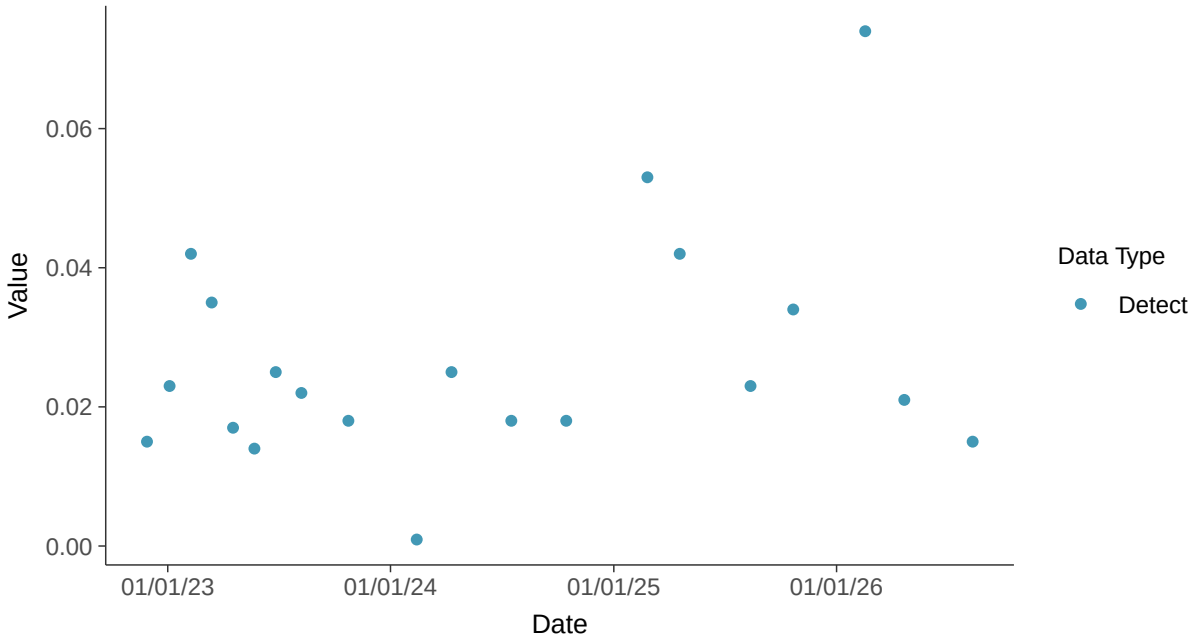


Part 115: Nickel, MW-02

ID: 12_2_5_119

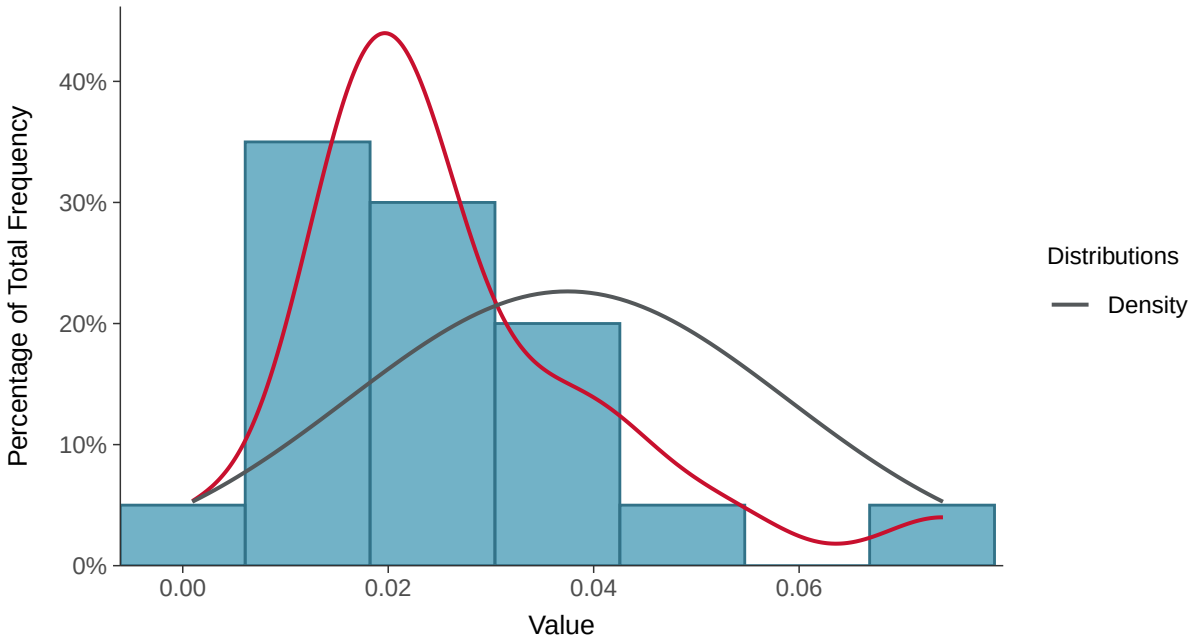
Scatter Plot

Nickel, MW-02 (mg/L)



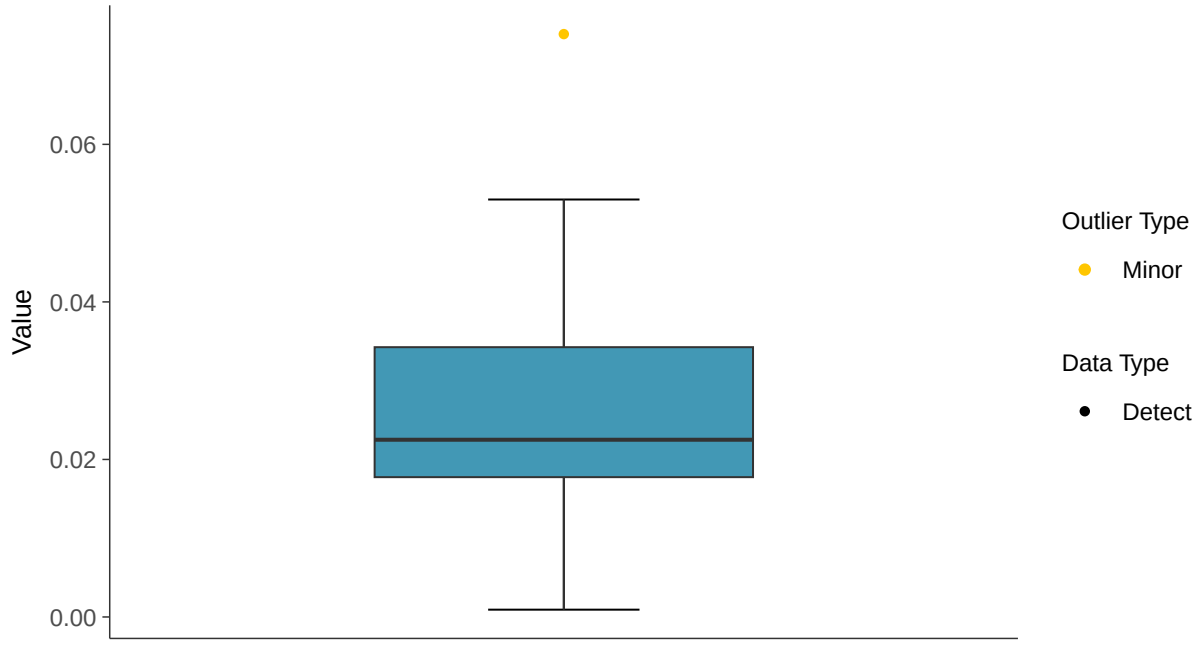
Histogram

Nickel, MW-02 (mg/L)



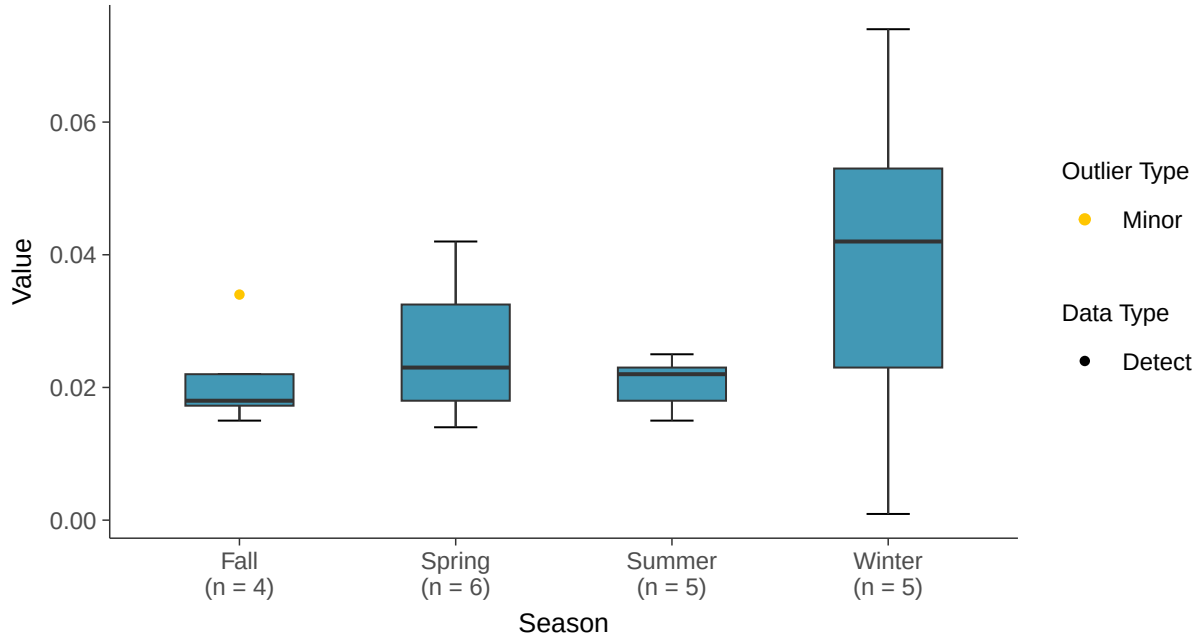
Boxplot

Nickel, MW-02 (mg/L)



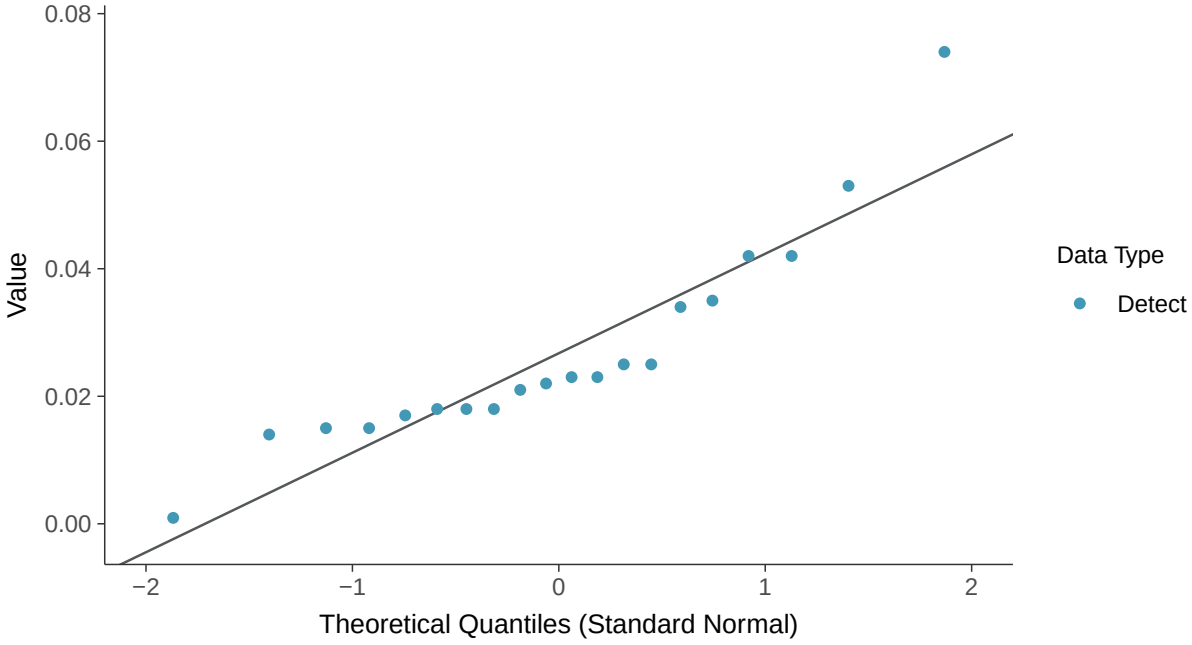
Boxplot by Season

Nickel, MW-02 (mg/L)



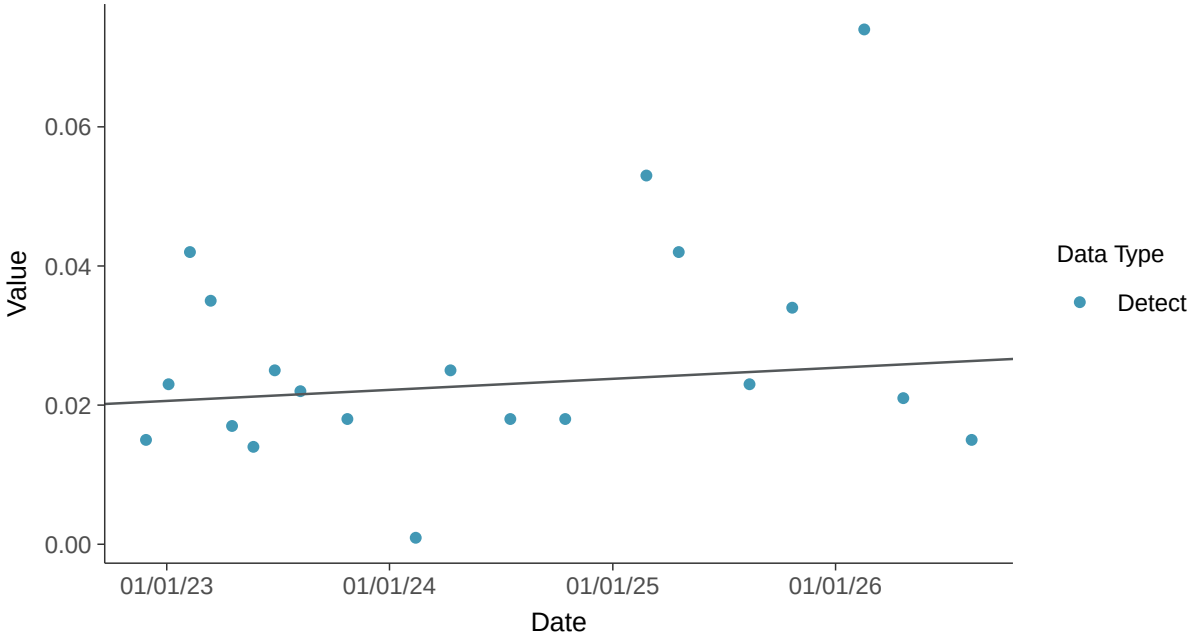
Normal Q-Q plot

Nickel, MW-02 (mg/L)



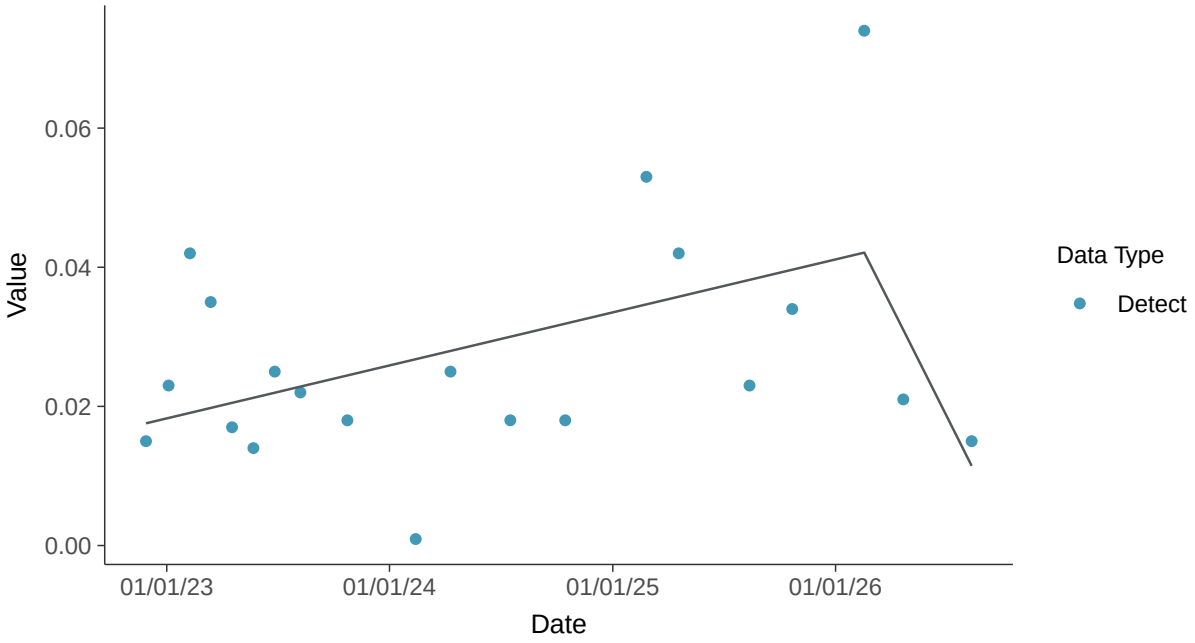
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Nickel, MW-02 (mg/L)



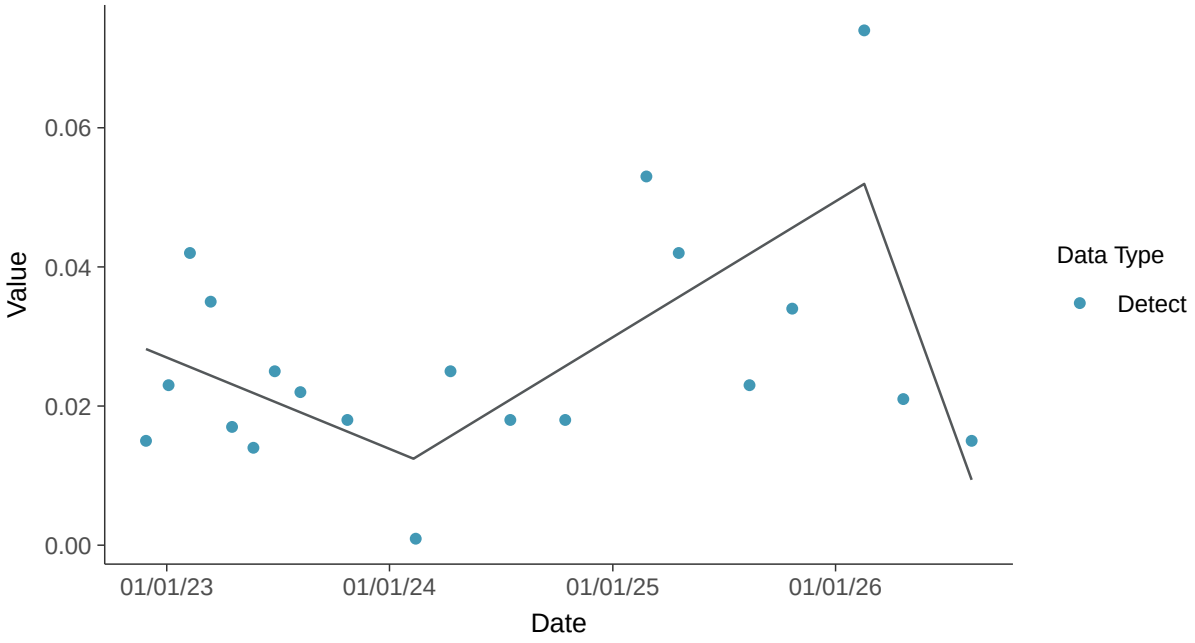
Trend Regression: Piecewise Linear-Linear

Nickel, MW-02 (mg/L)



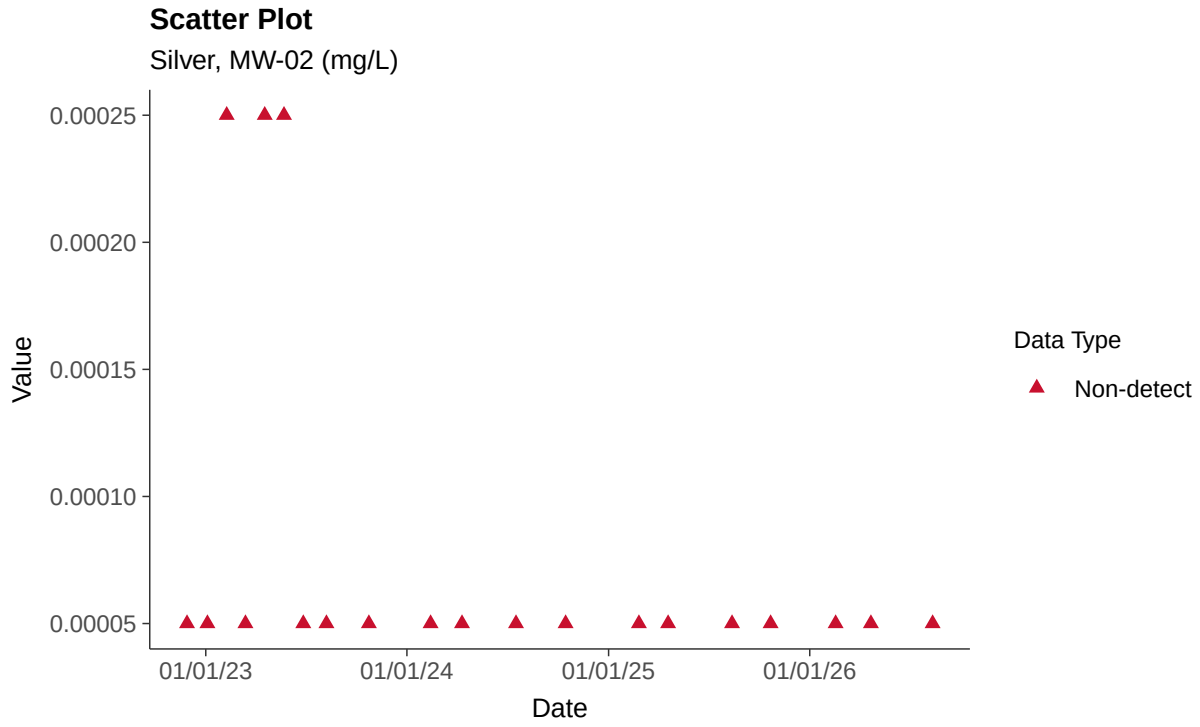
Trend Regression: Piecewise Linear-Linear-Linear

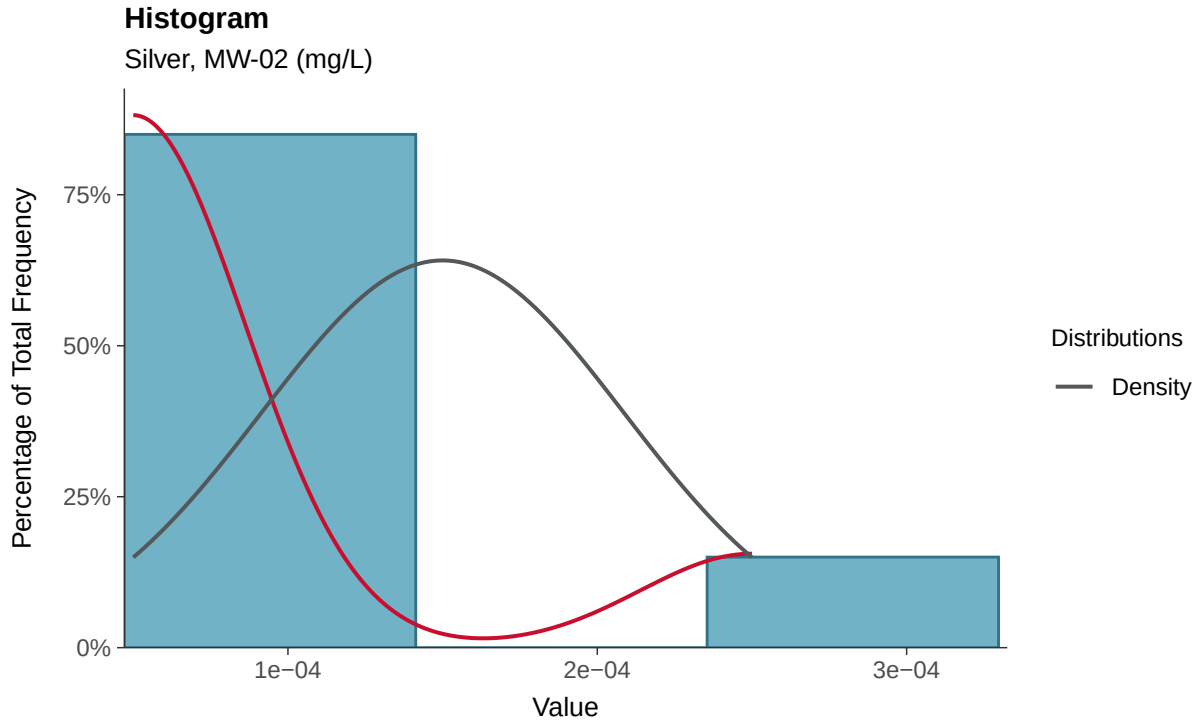
Nickel, MW-02 (mg/L)



Part 115: Silver, MW-02

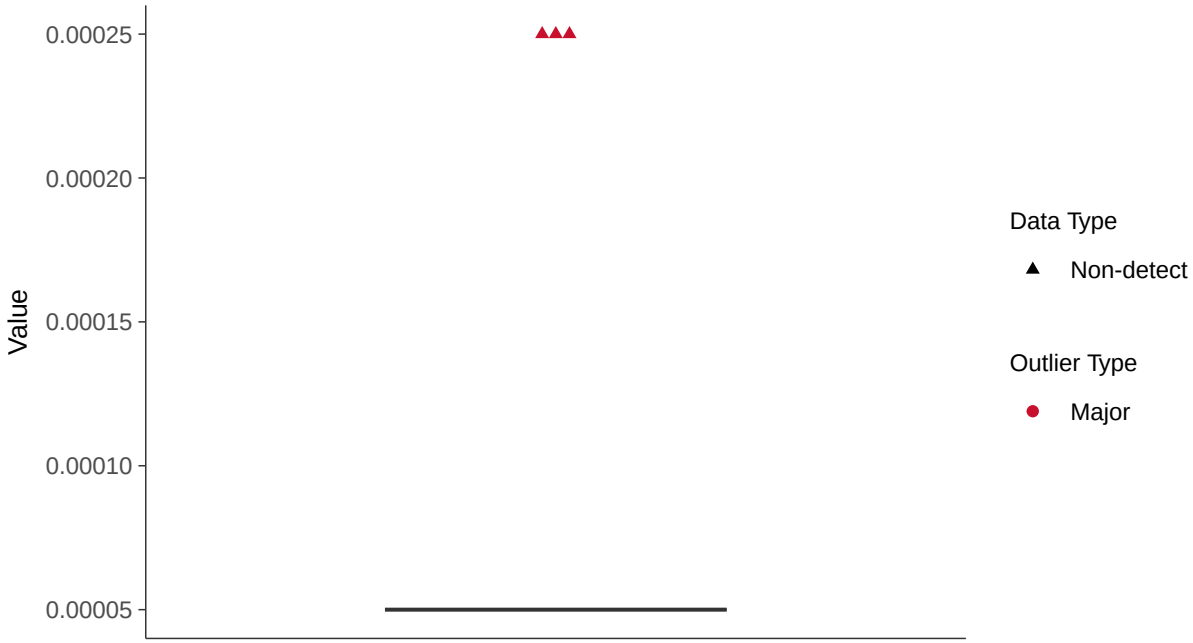
ID: 12_2_5_123





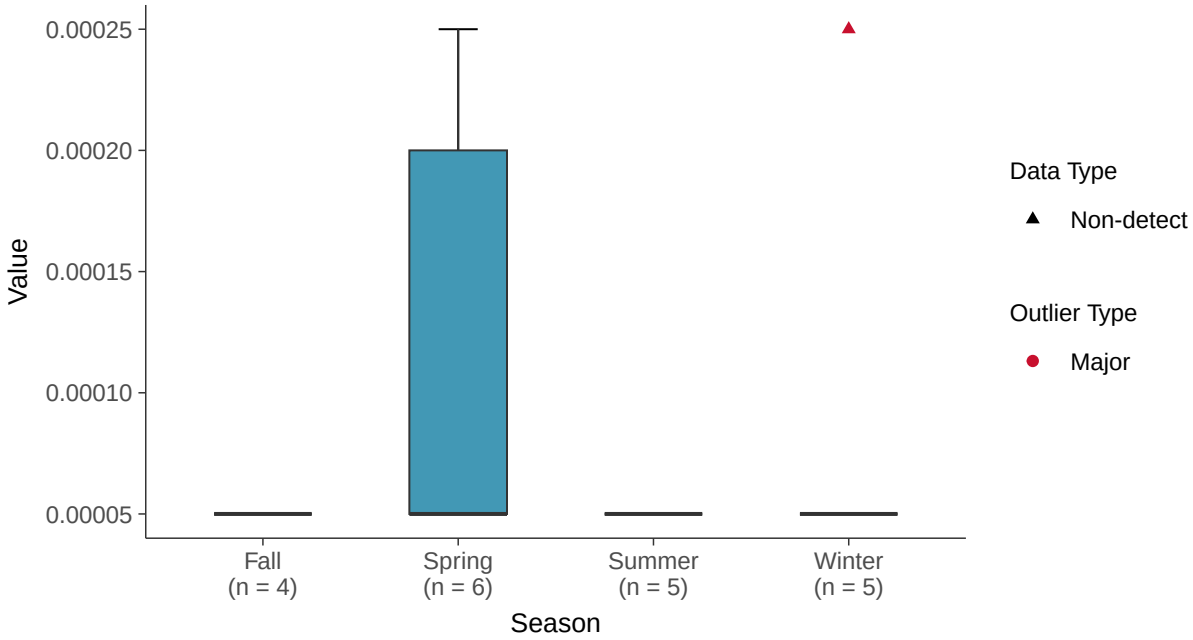
Boxplot

Silver, MW-02 (mg/L)



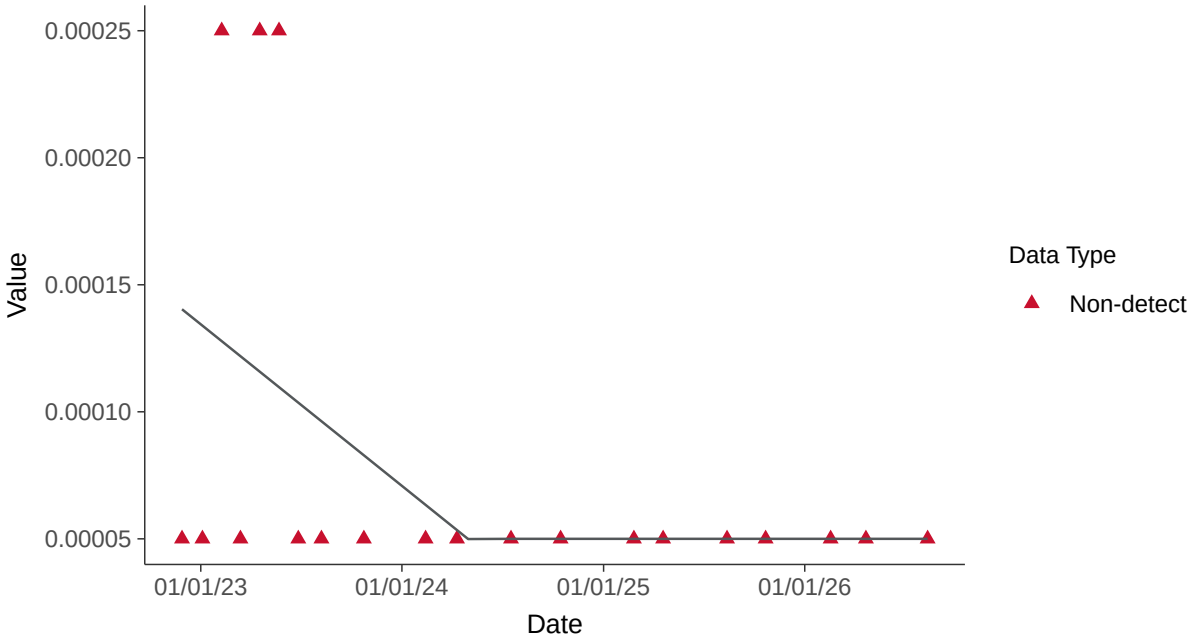
Boxplot by Season

Silver, MW-02 (mg/L)



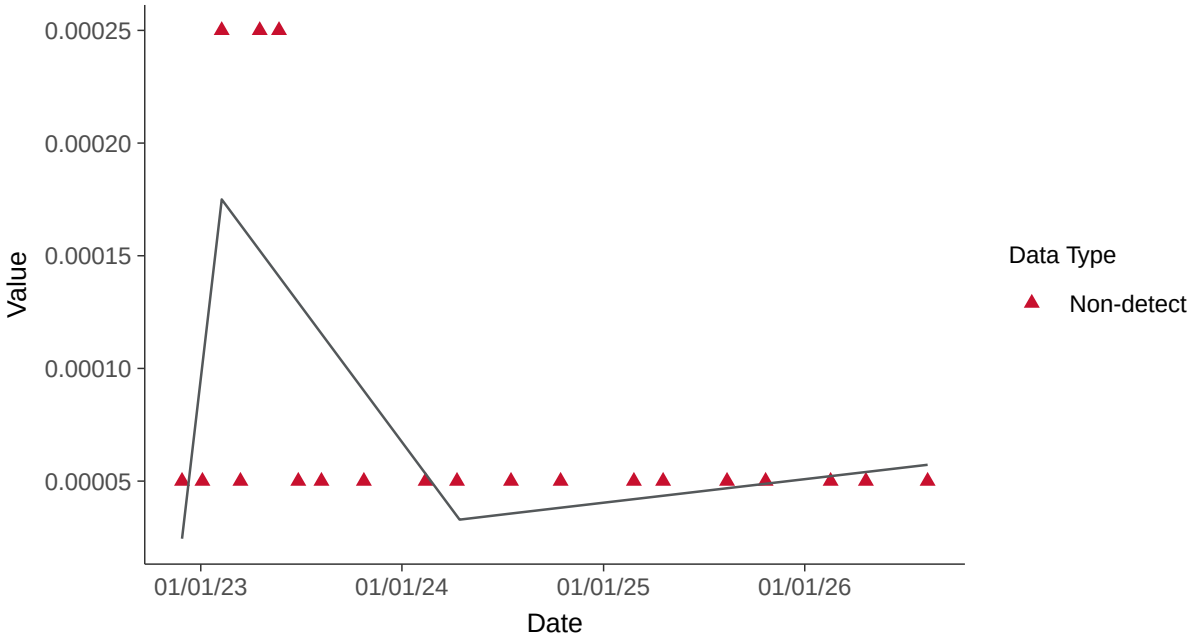
Trend Regression: Piecewise Linear-Linear

Silver, MW-02 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Silver, MW-02 (mg/L)

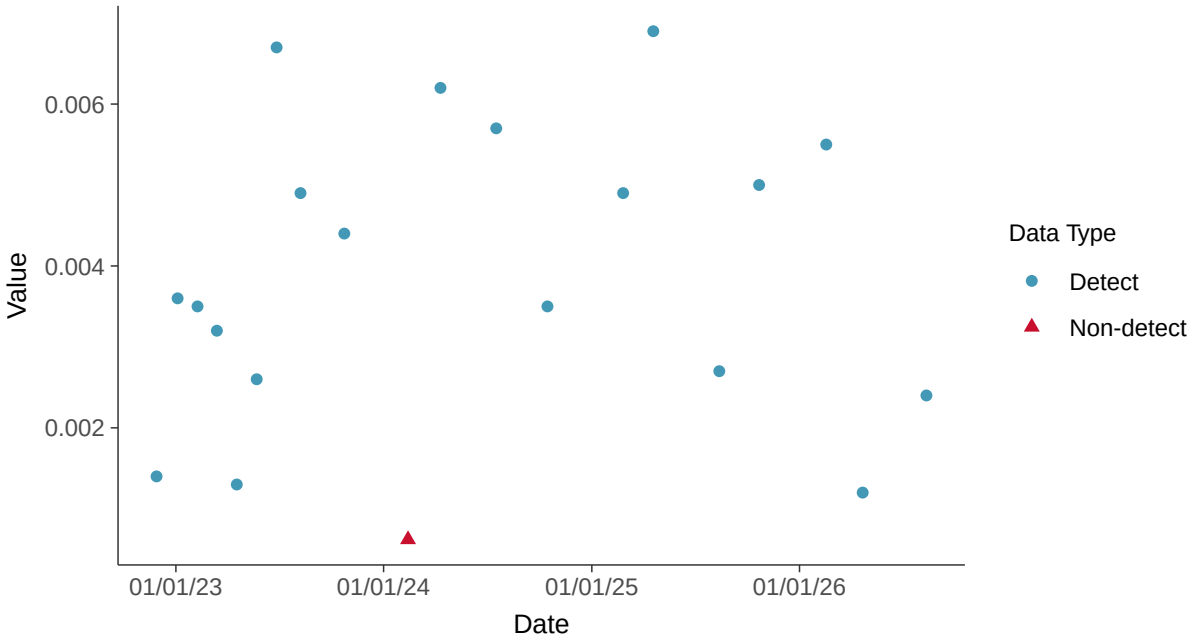


Part 115: Vanadium, MW-02

ID: 12_2_5_128

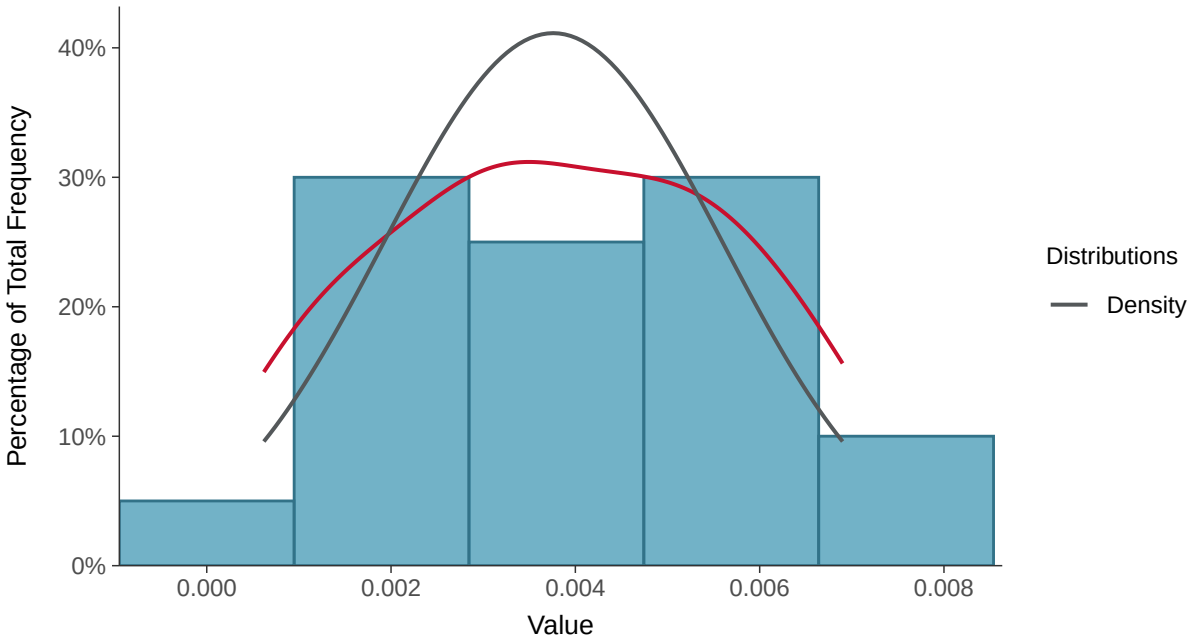
Scatter Plot

Vanadium, MW-02 (mg/L)



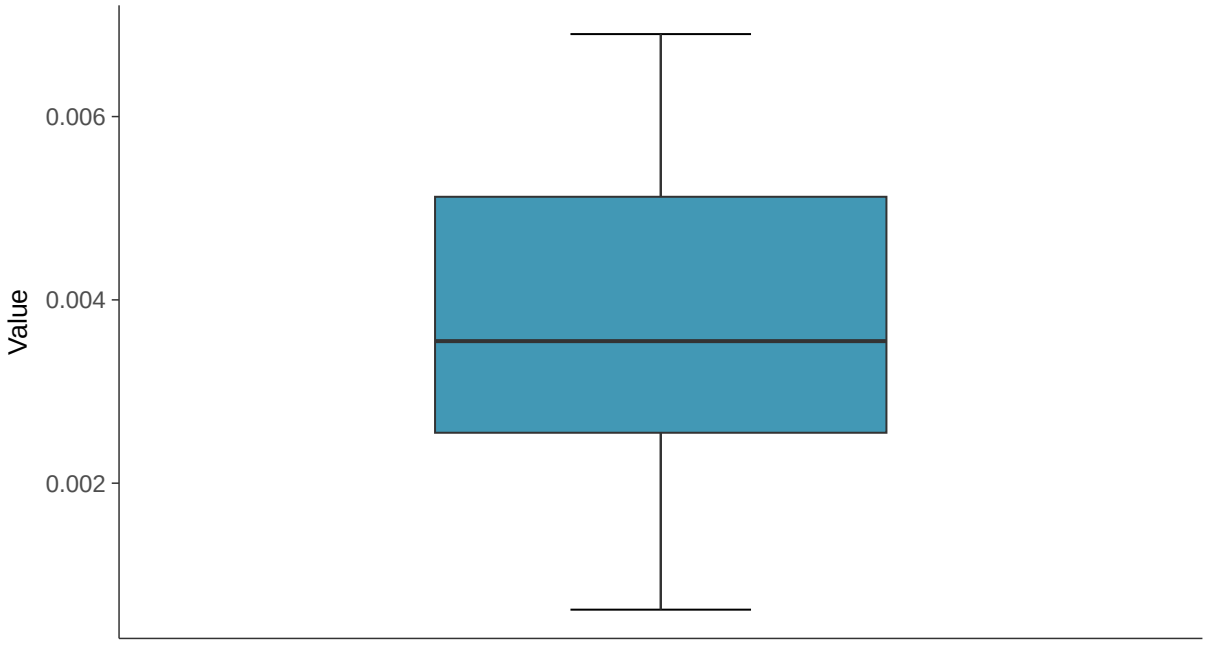
Histogram

Vanadium, MW-02 (mg/L)



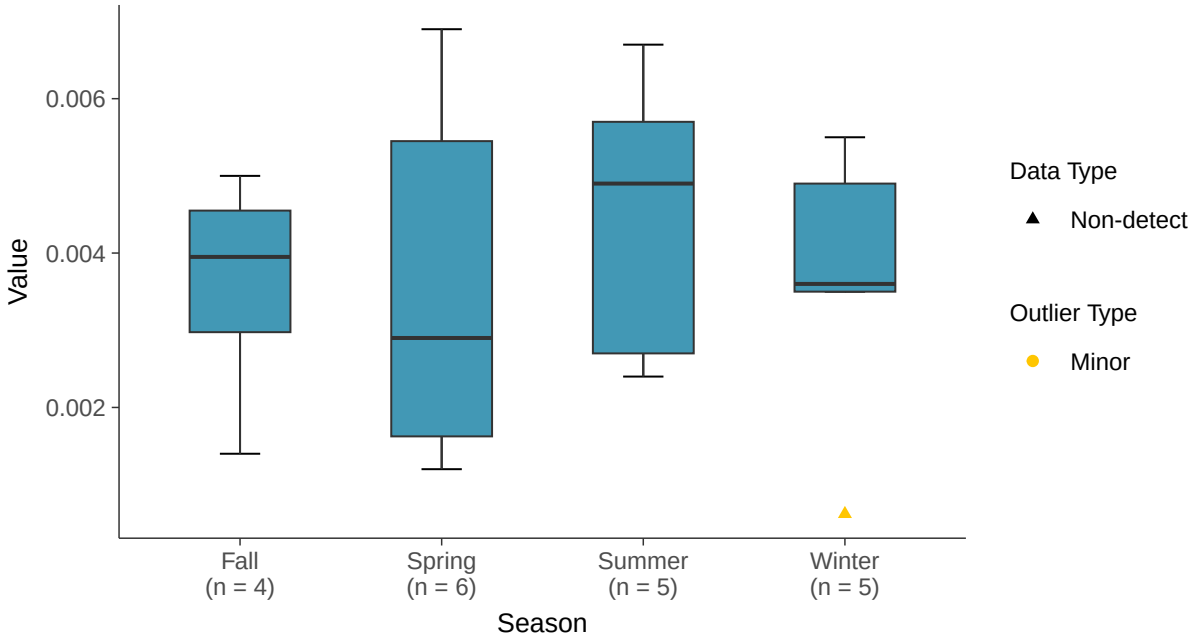
Boxplot

Vanadium, MW-02 (mg/L)



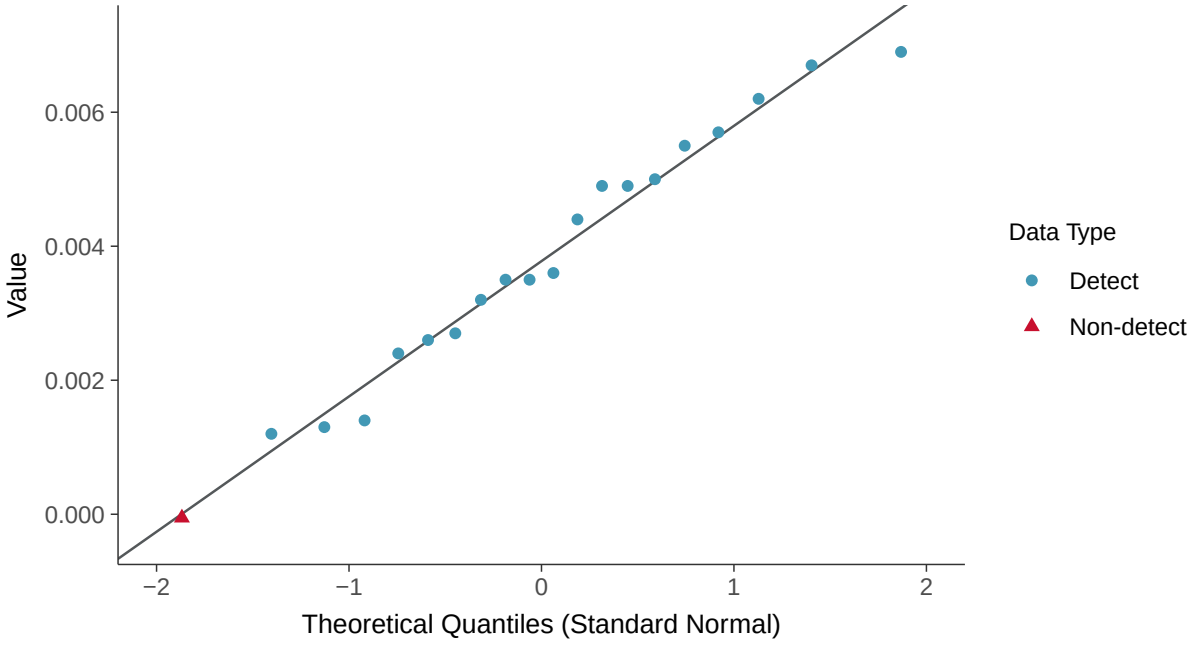
Boxplot by Season

Vanadium, MW-02 (mg/L)



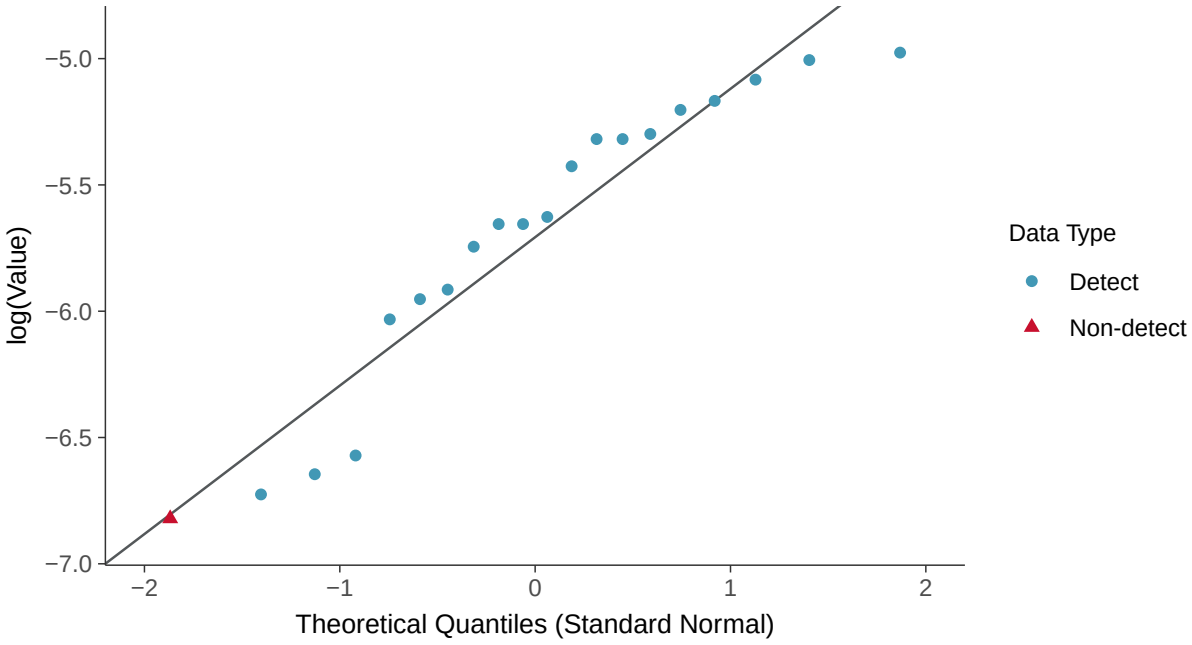
Normal Q-Q plot using ROS Imputed Estimates

Vanadium, MW-02 (mg/L)



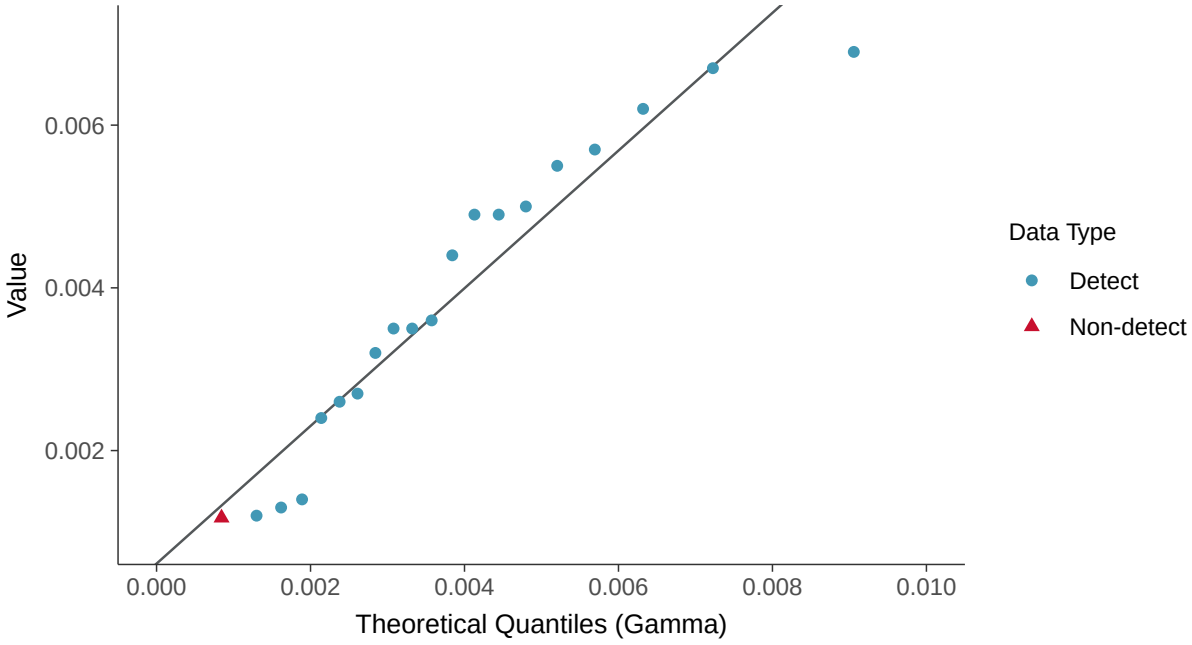
Lognormal Q-Q plot using ROS Imputed Estimates

Vanadium, MW-02 (mg/L)



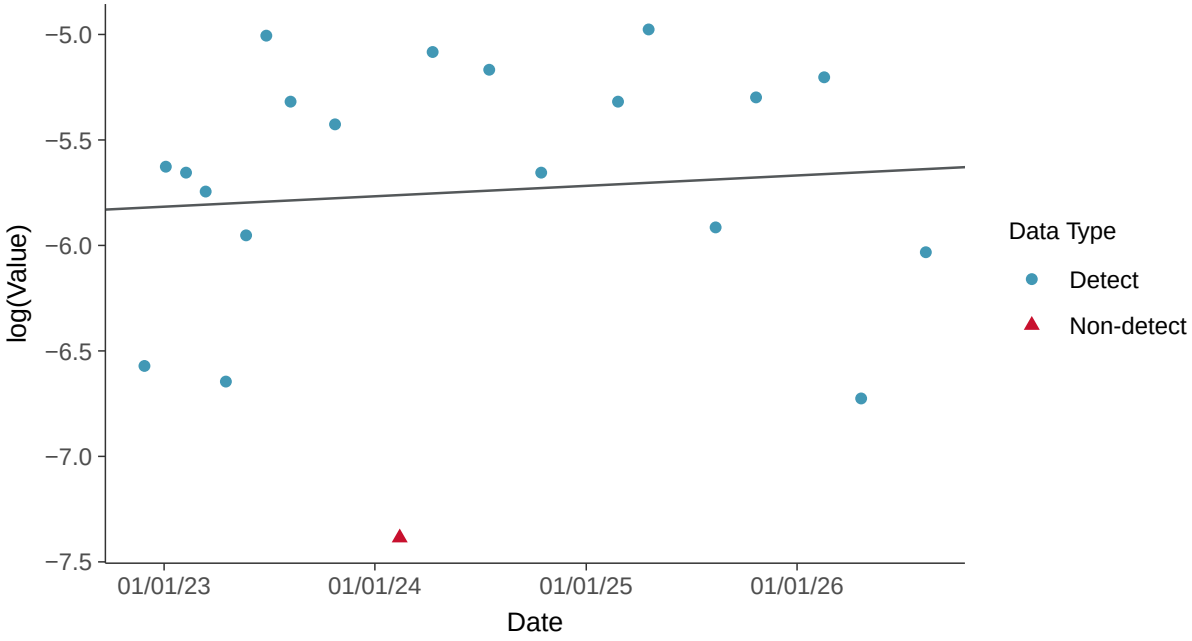
Gamma Q-Q plot using ROS Imputed Estimates

Vanadium, MW-02 (mg/L)



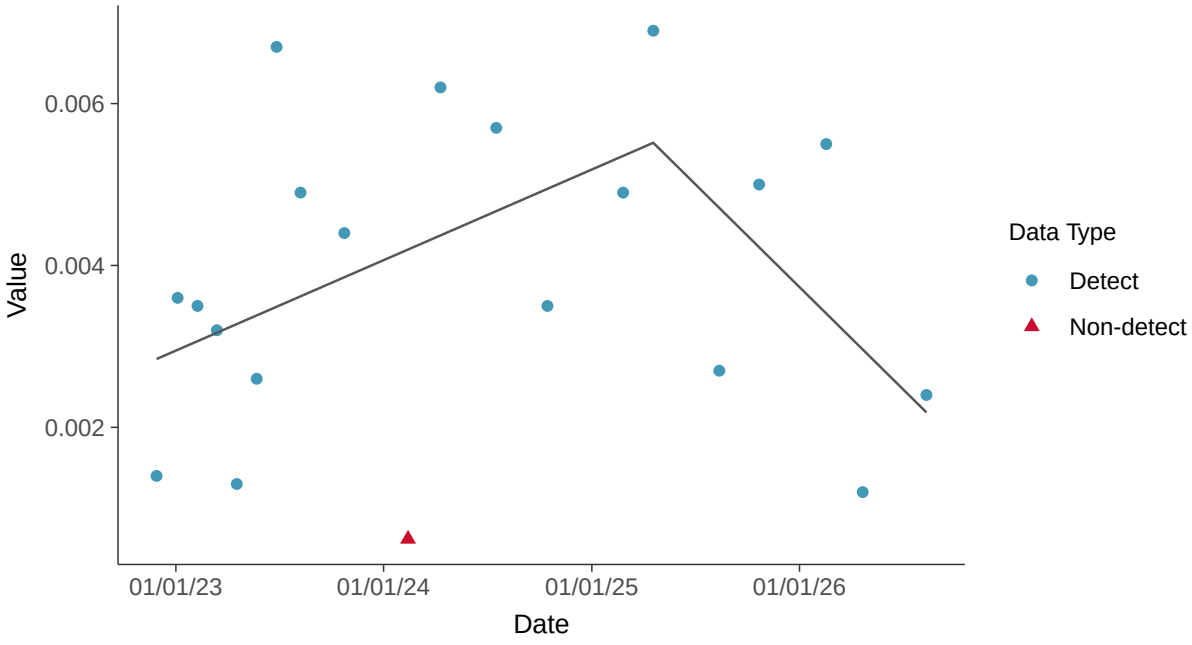
Trend Regression: Lognormal MLE

Vanadium, MW-02 (mg/L)



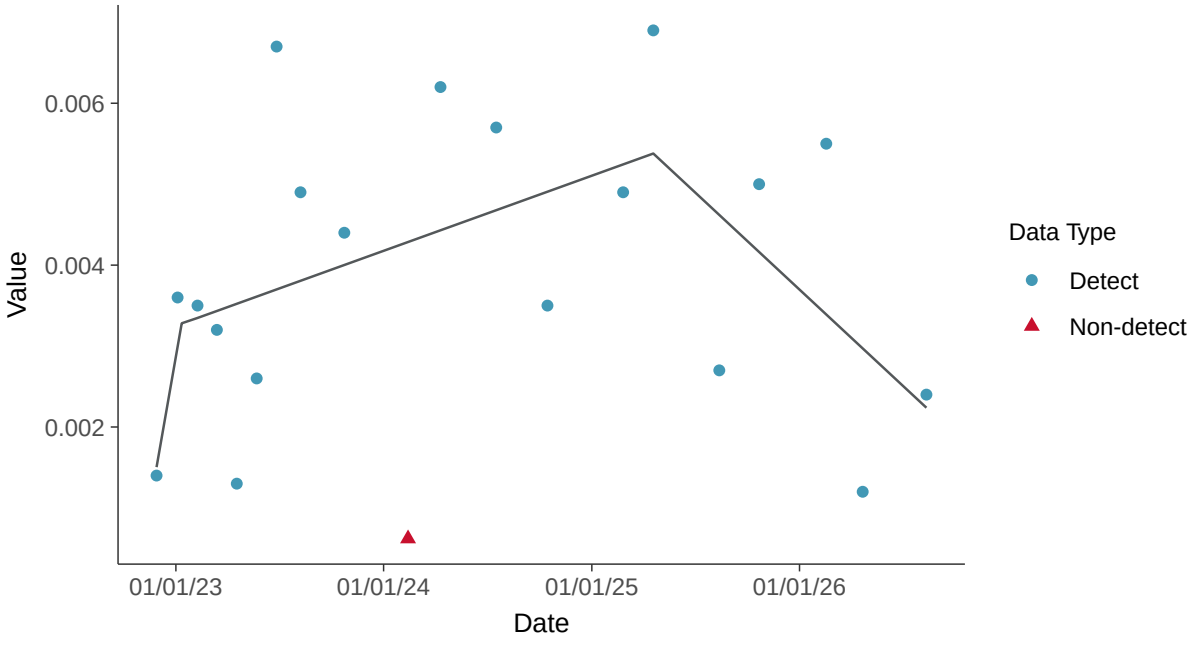
Trend Regression: Piecewise Linear-Linear

Vanadium, MW-02 (mg/L)



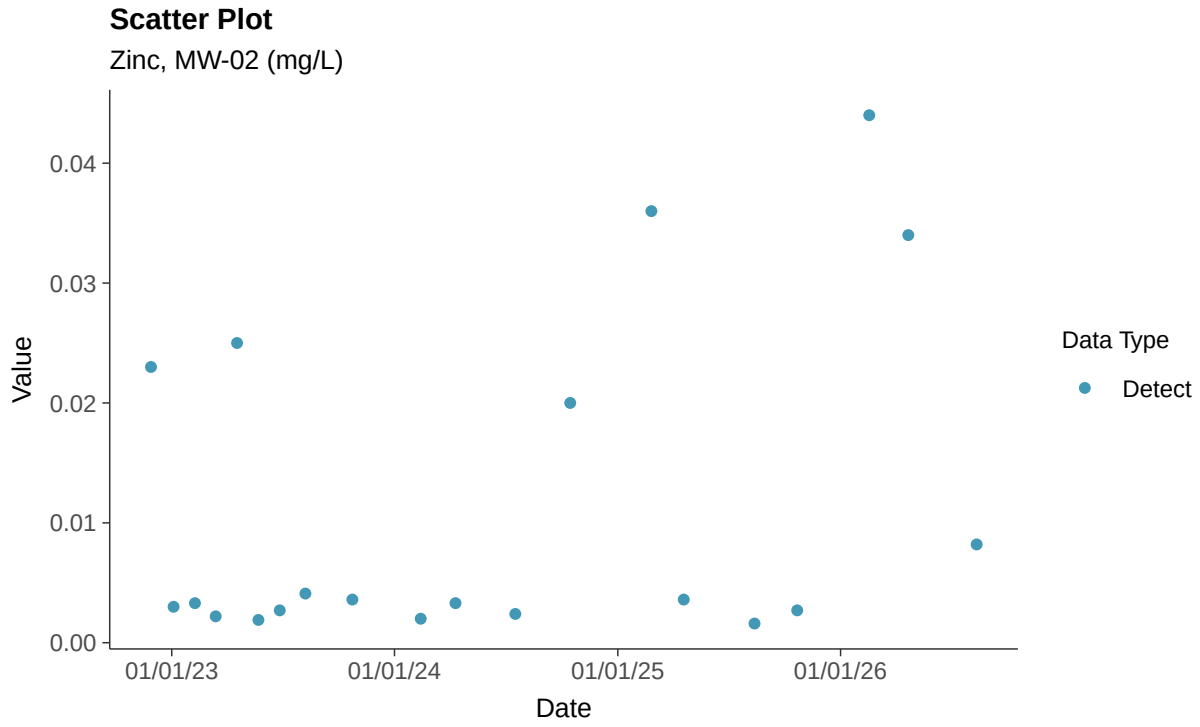
Trend Regression: Piecewise Linear-Linear-Linear

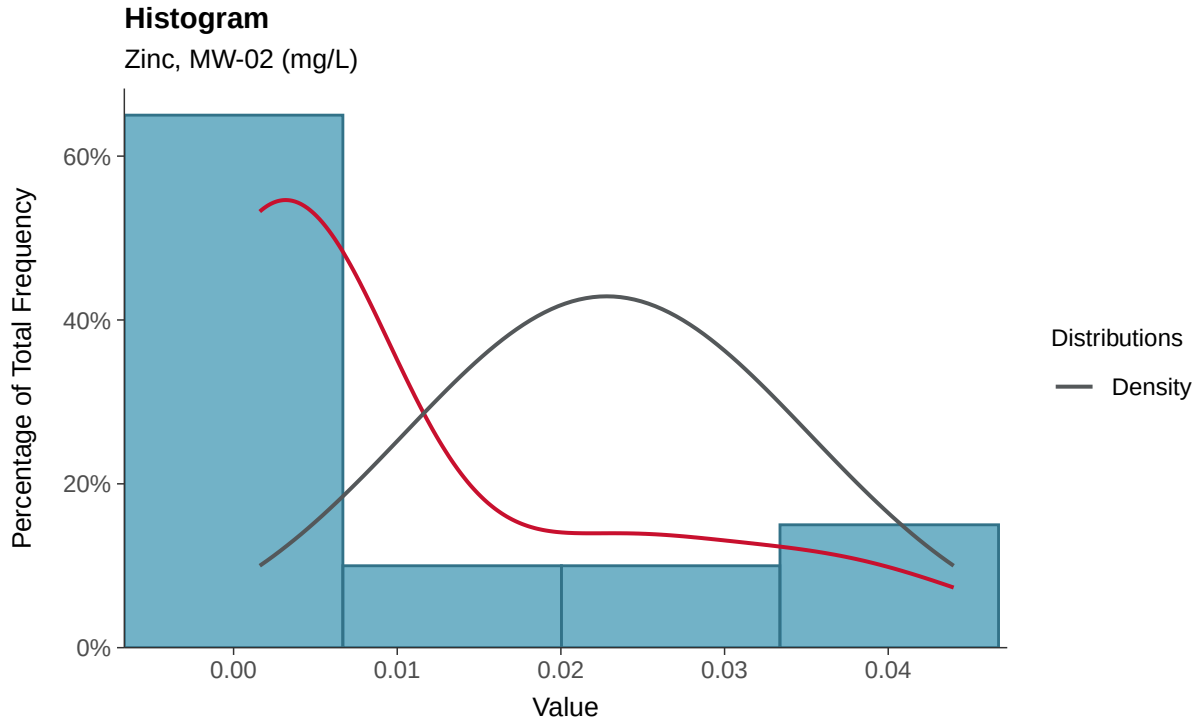
Vanadium, MW-02 (mg/L)



Part 115: Zinc, MW-02

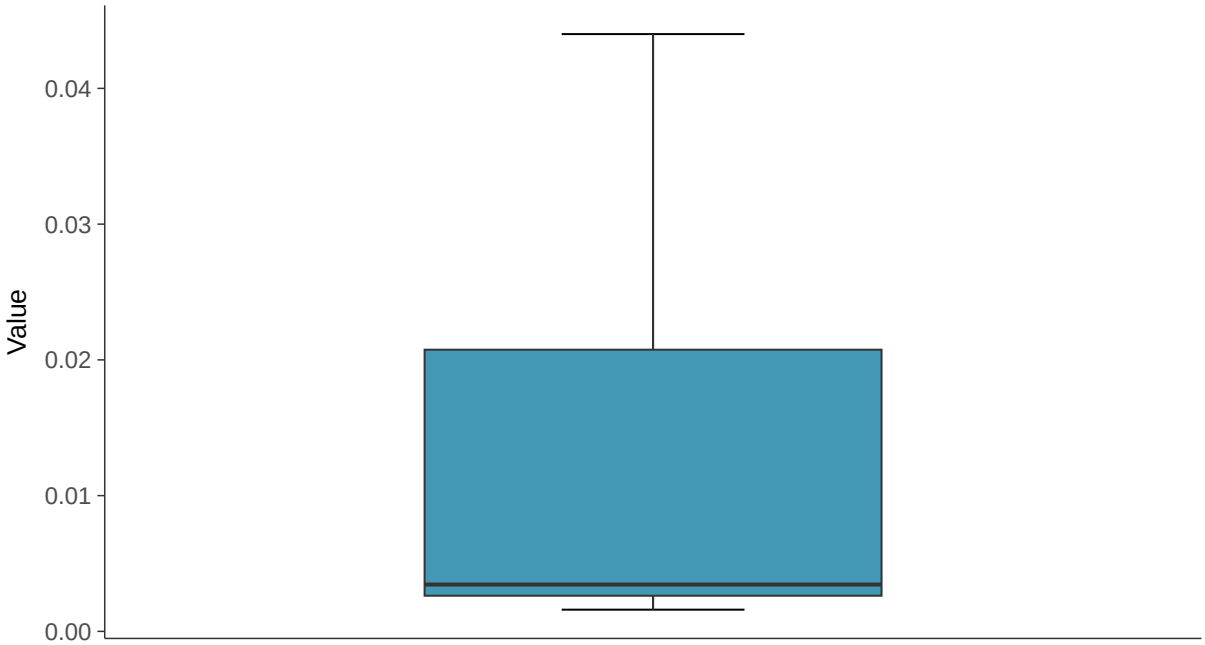
ID: 12_2_5_129





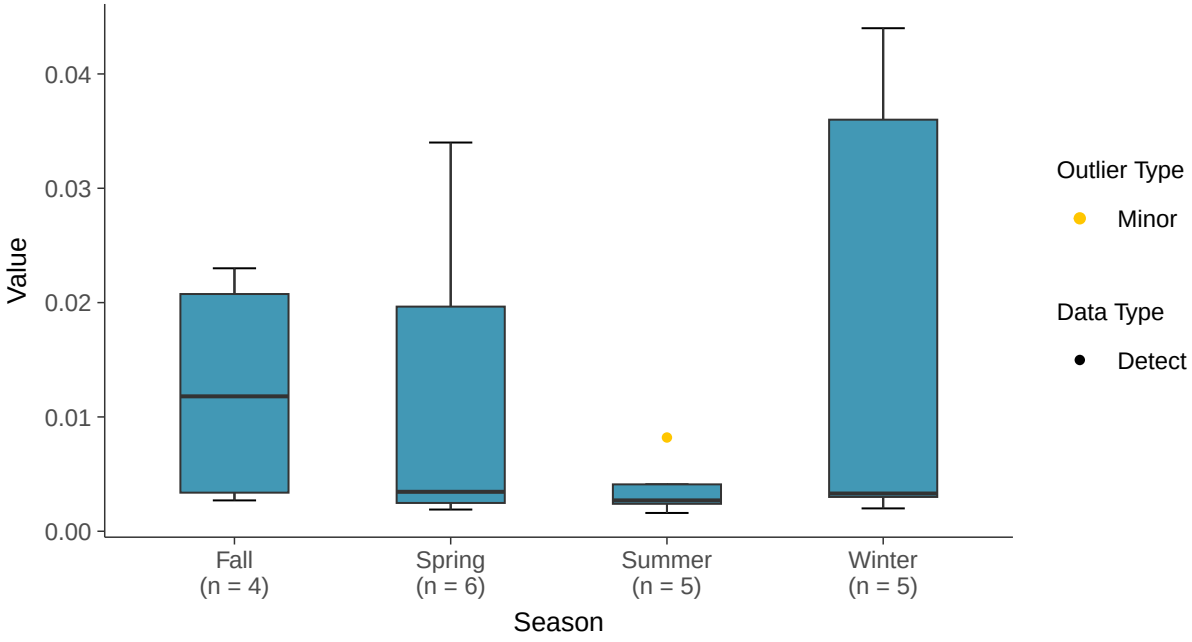
Boxplot

Zinc, MW-02 (mg/L)



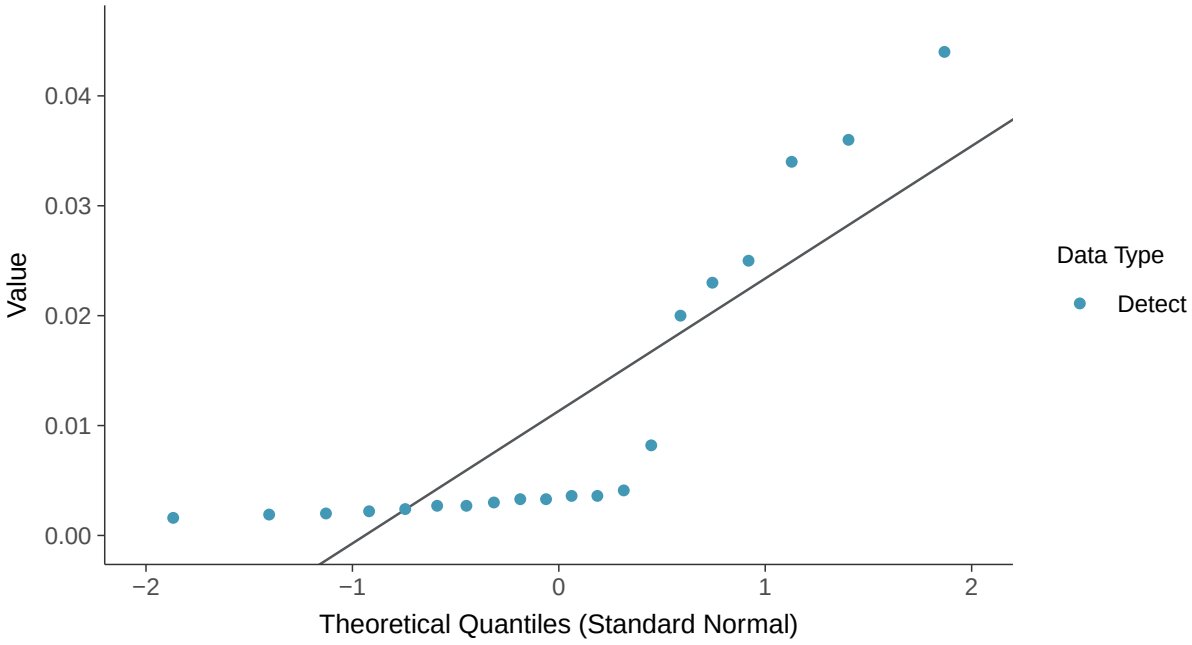
Boxplot by Season

Zinc, MW-02 (mg/L)



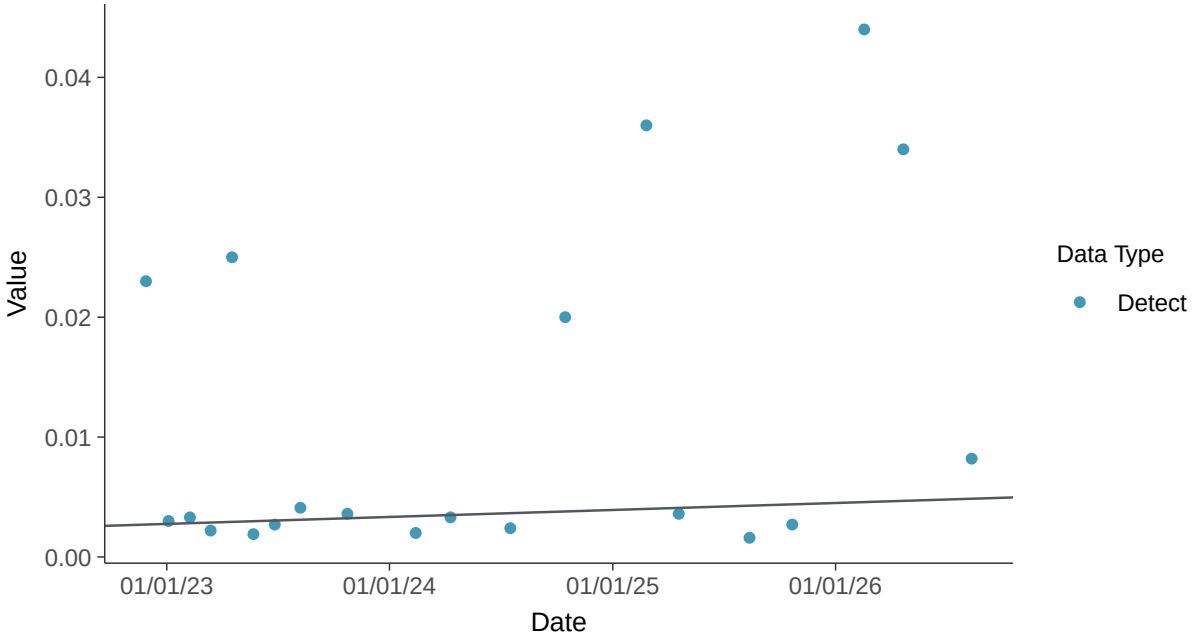
Normal Q-Q plot

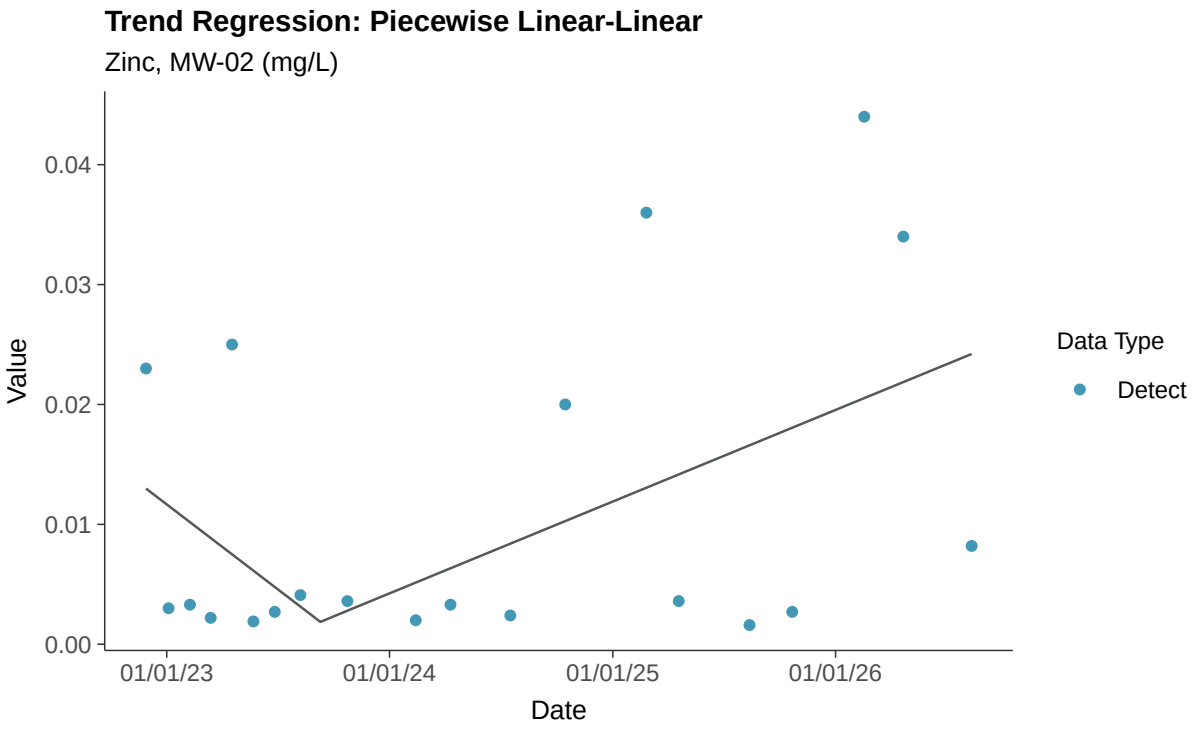
Zinc, MW-02 (mg/L)



Trend Regression: Mann-Kendall/Theil-Sen Estimate

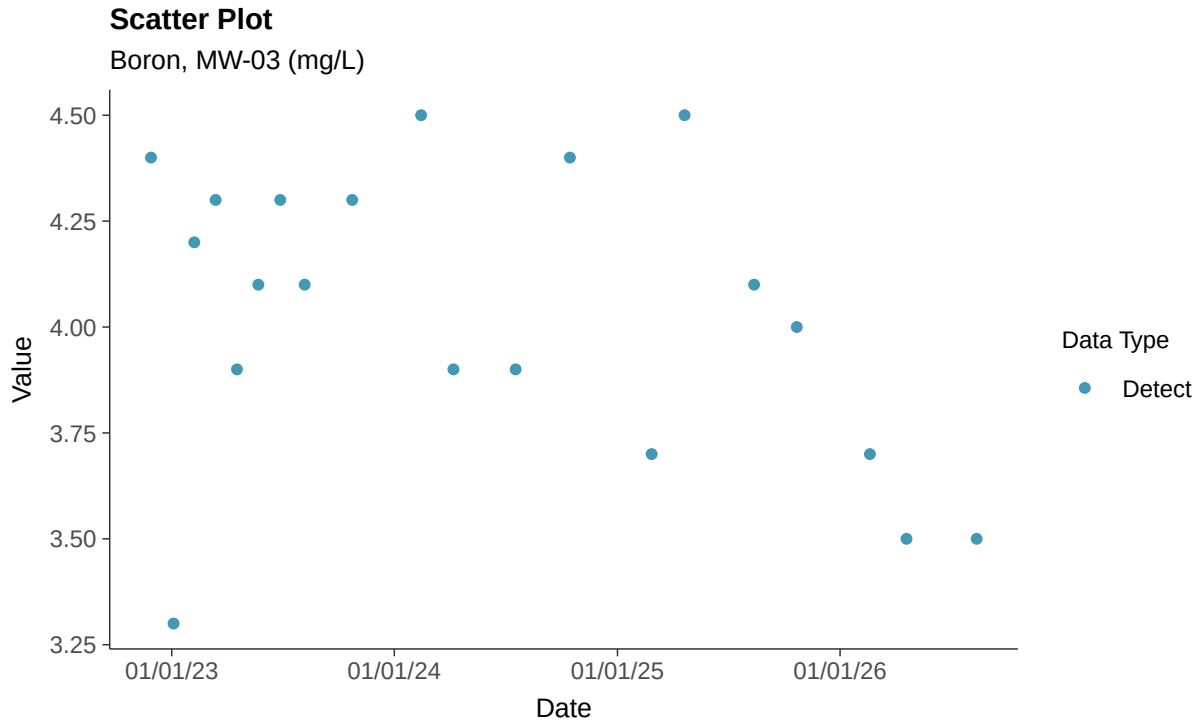
Zinc, MW-02 (mg/L)

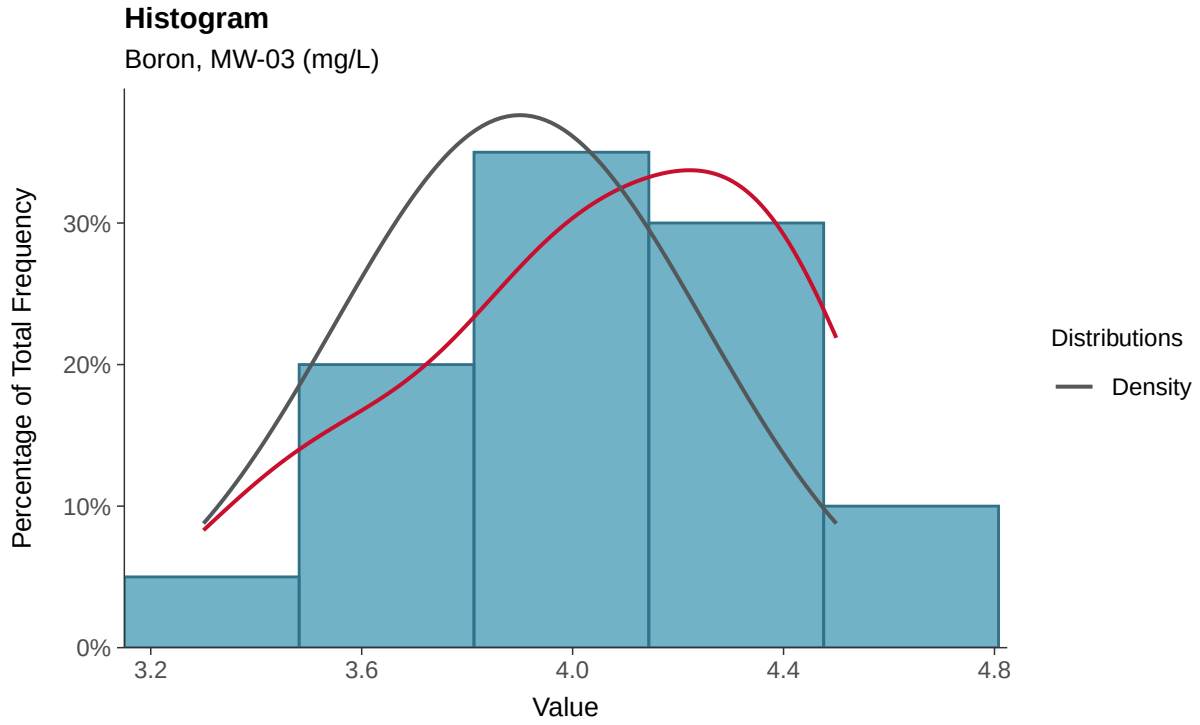



Trend Regression: Piecewise Linear-Linear
Zinc, MW-02 (mg/L)
Value
0.04
0.03
0.02
0.01
0.00
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect

Appendix III: Boron, MW-03

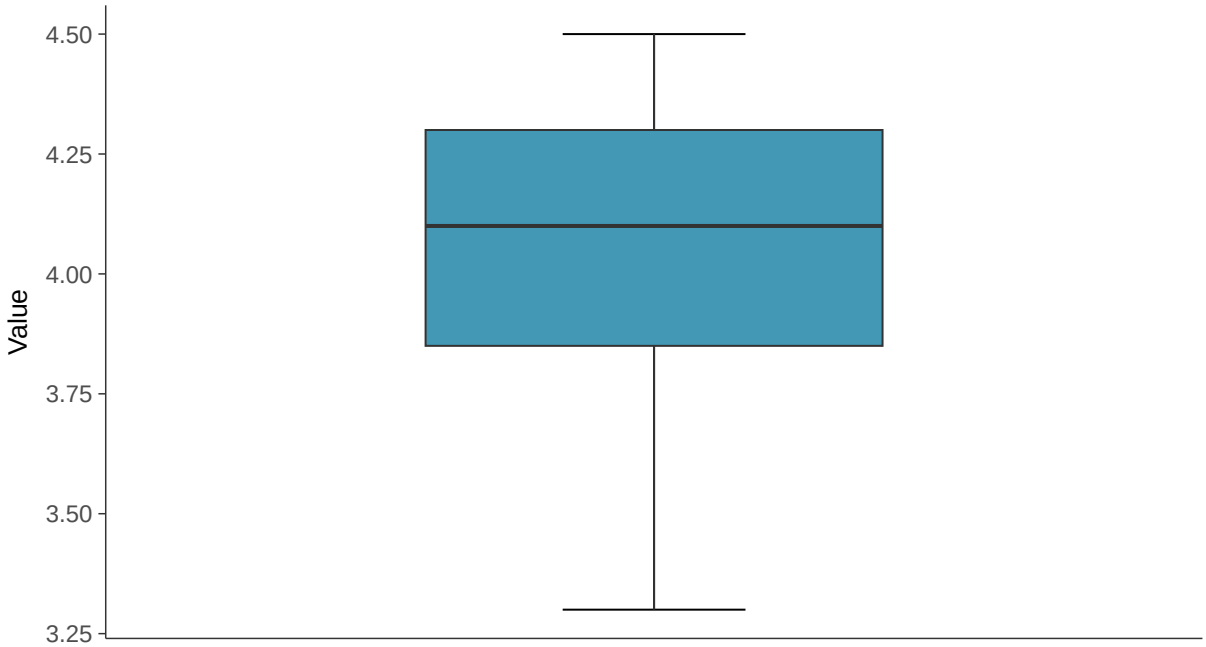
ID: 13_2_3_105





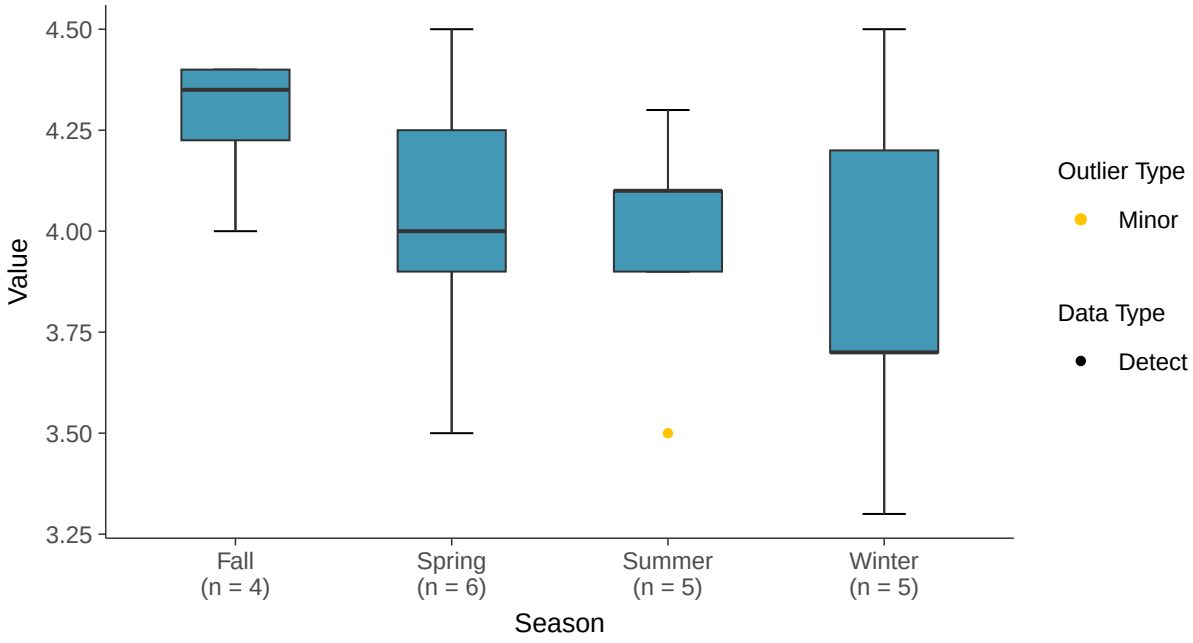
Boxplot

Boron, MW-03 (mg/L)



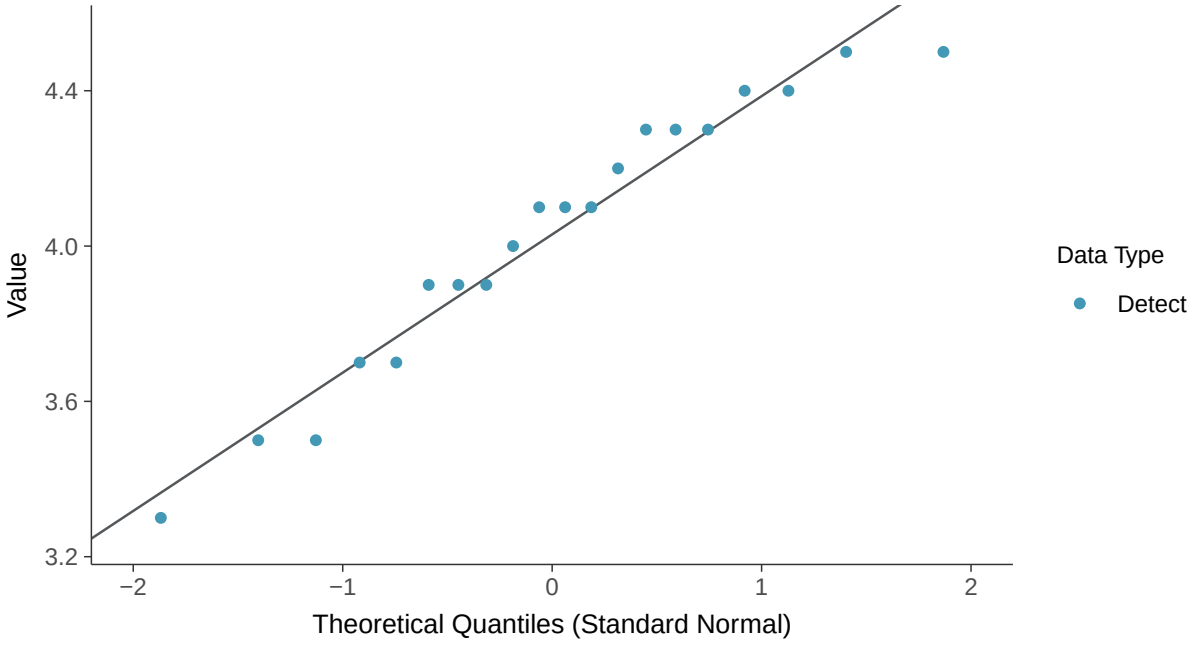
Boxplot by Season

Boron, MW-03 (mg/L)



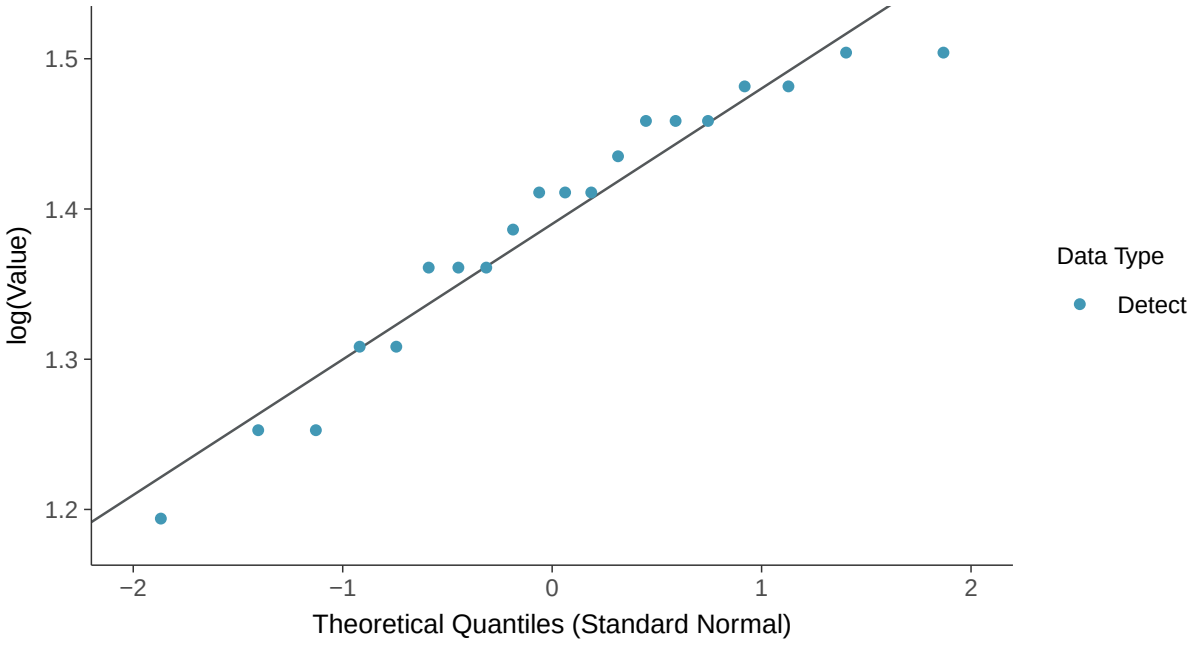
Normal Q-Q plot

Boron, MW-03 (mg/L)



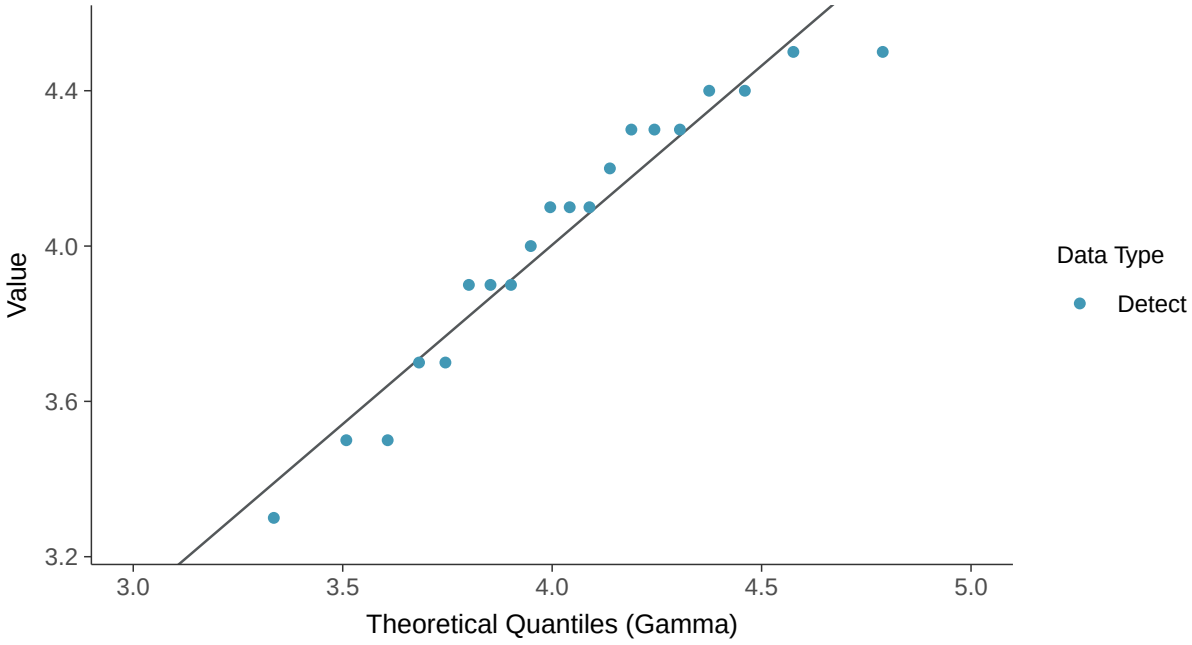
Lognormal Q-Q plot

Boron, MW-03 (mg/L)



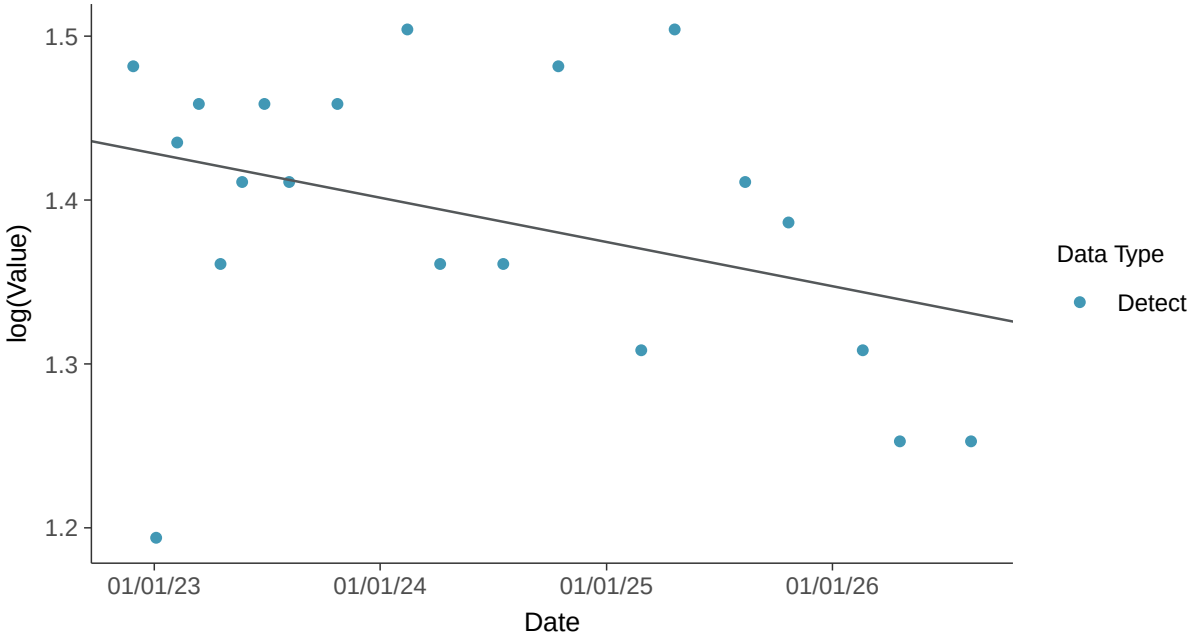
Gamma Q-Q plot

Boron, MW-03 (mg/L)



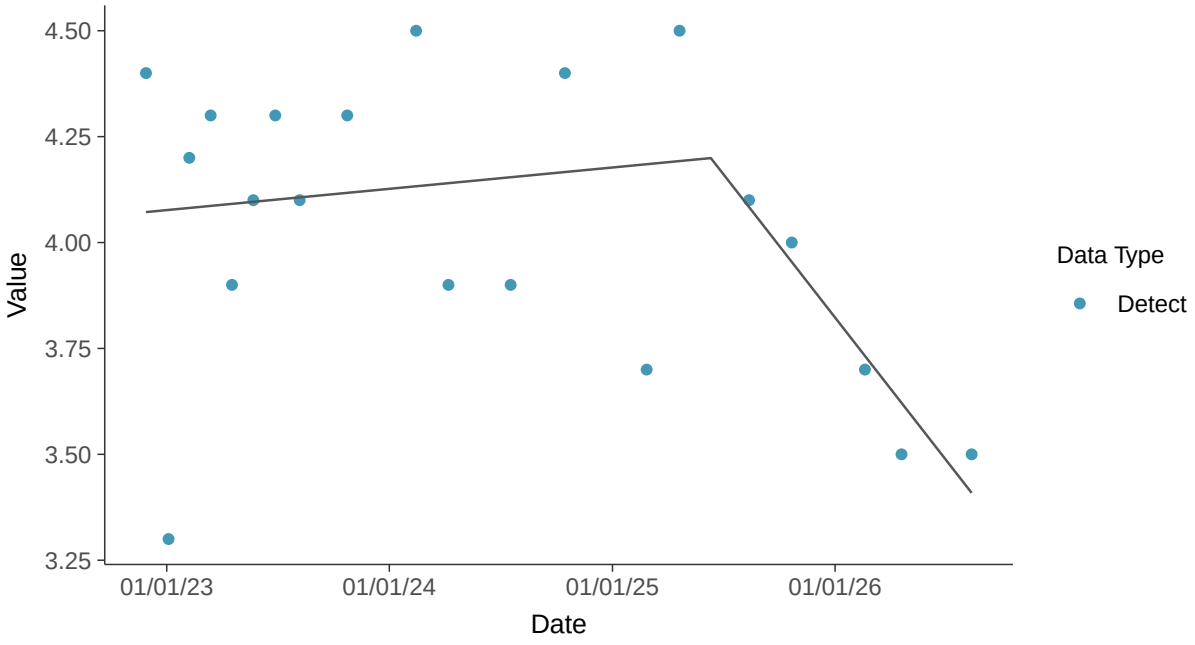
Trend Regression: Lognormal MLE

Boron, MW-03 (mg/L)



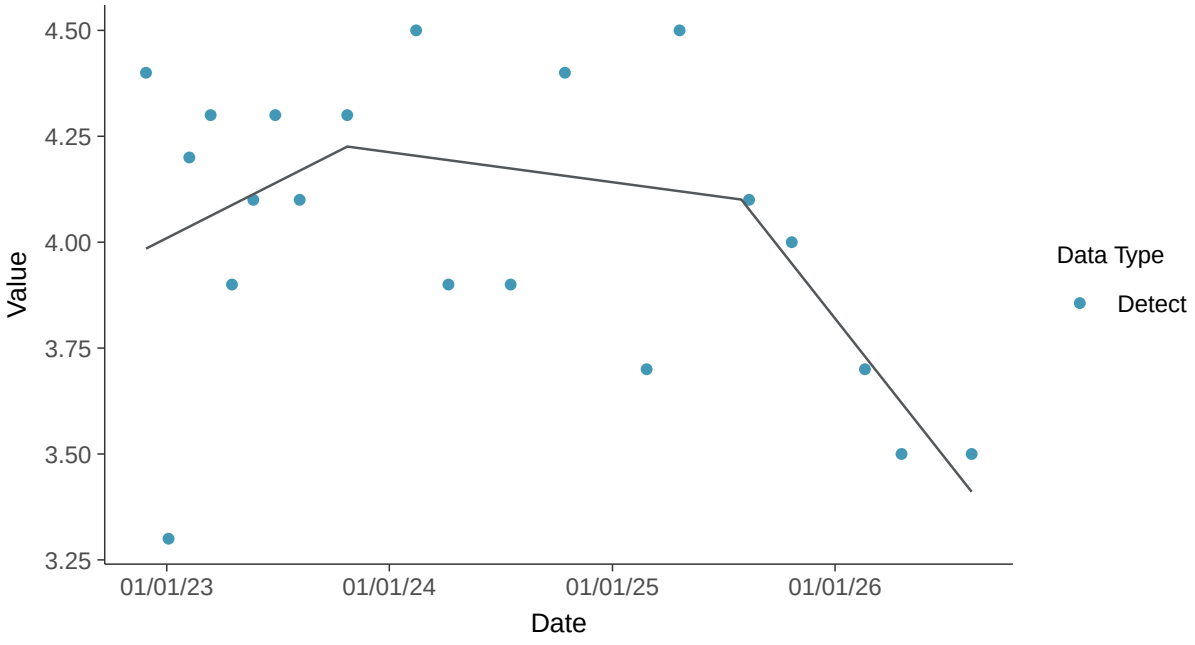
Trend Regression: Piecewise Linear-Linear

Boron, MW-03 (mg/L)



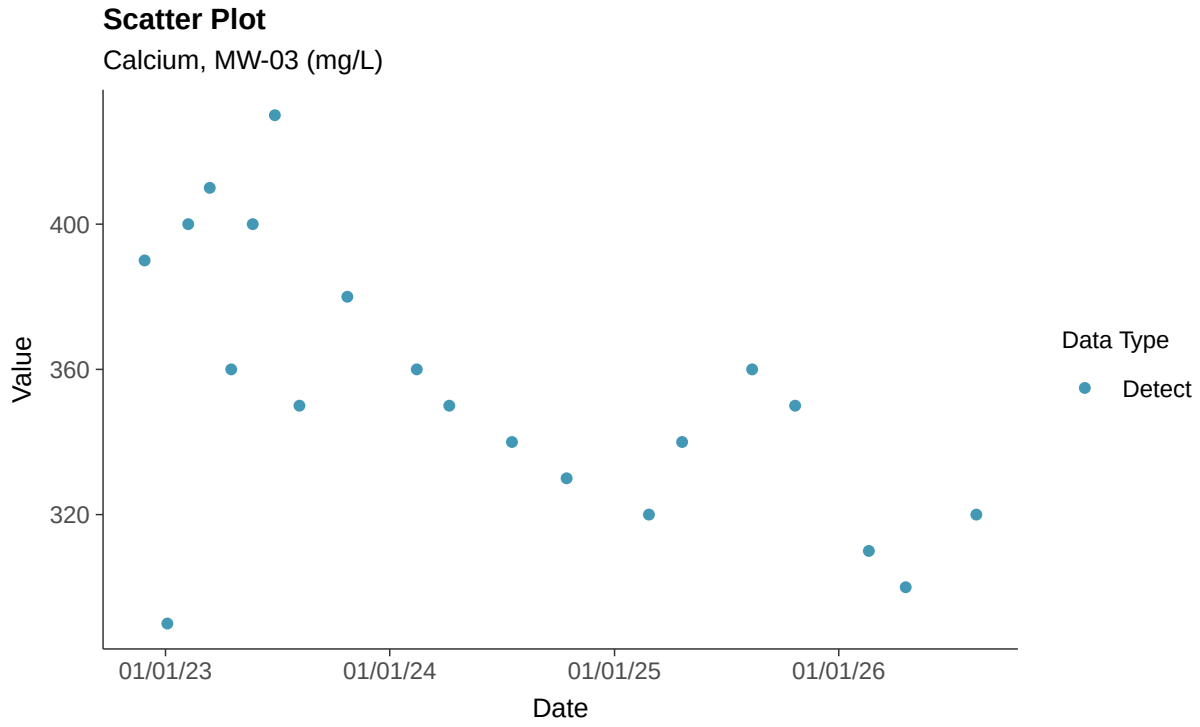
Trend Regression: Piecewise Linear-Linear-Linear

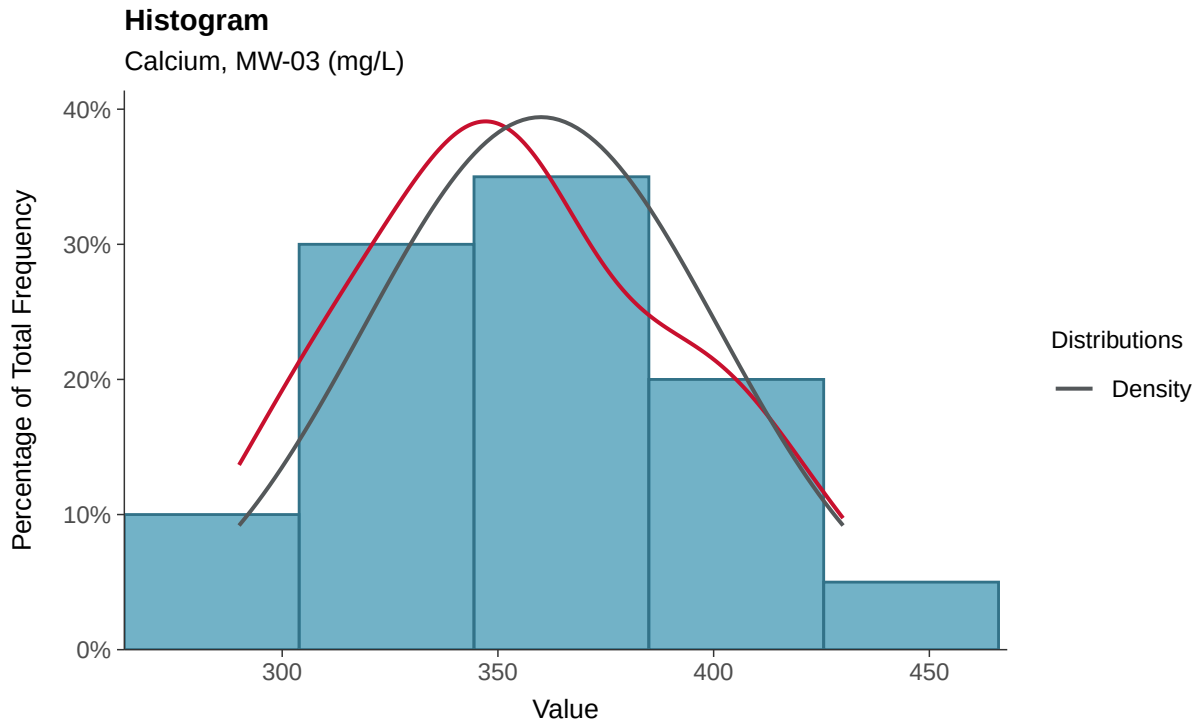
Boron, MW-03 (mg/L)



Appendix III: Calcium, MW-03

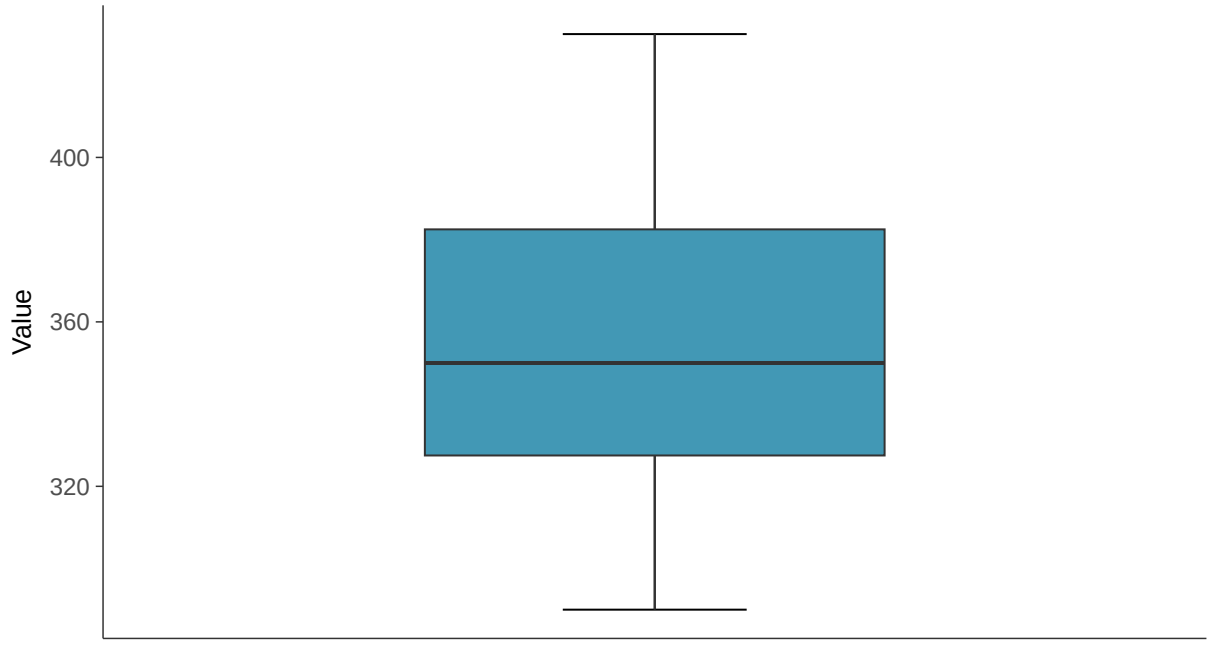
ID: 13_2_3_107





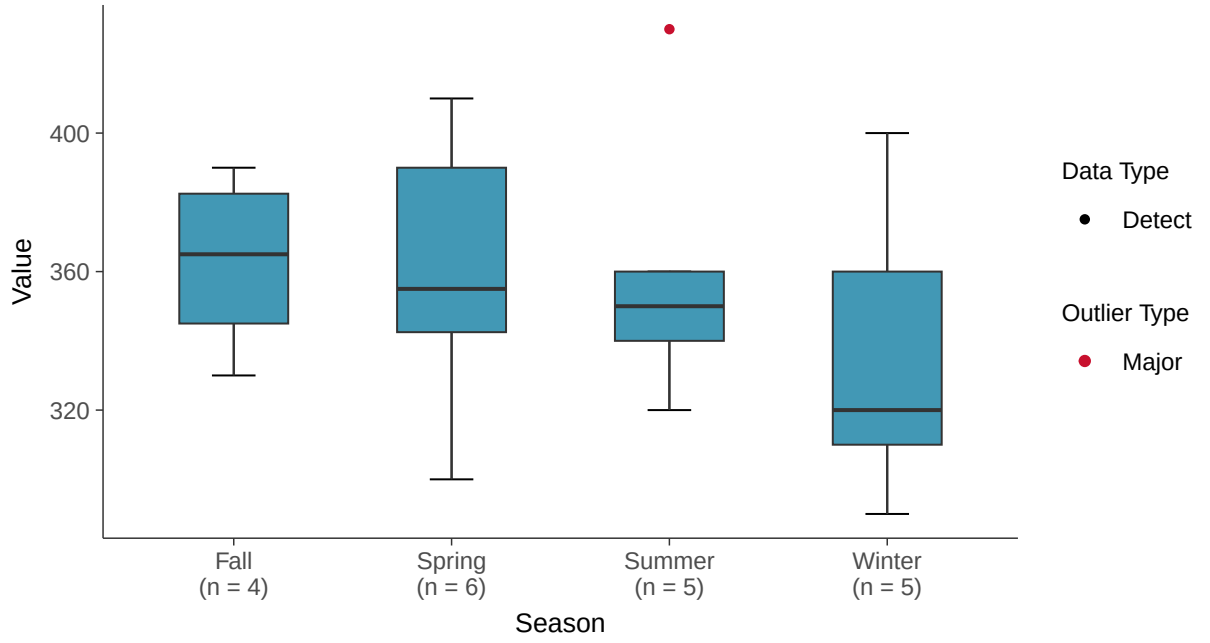
Boxplot

Calcium, MW-03 (mg/L)



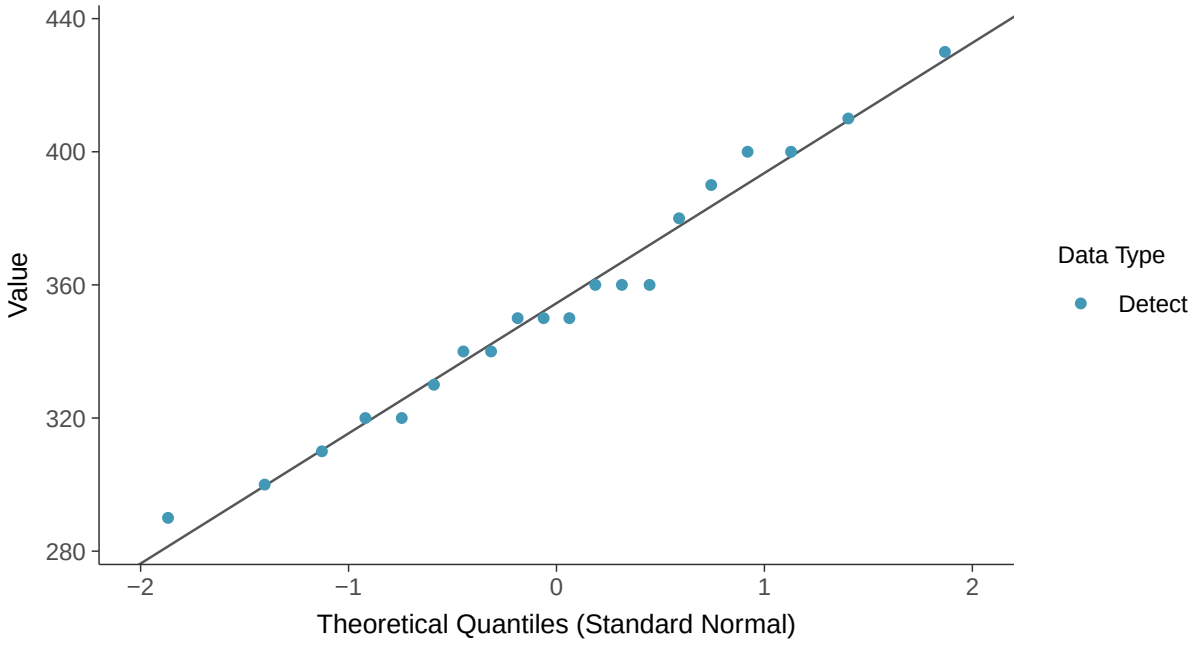
Boxplot by Season

Calcium, MW-03 (mg/L)



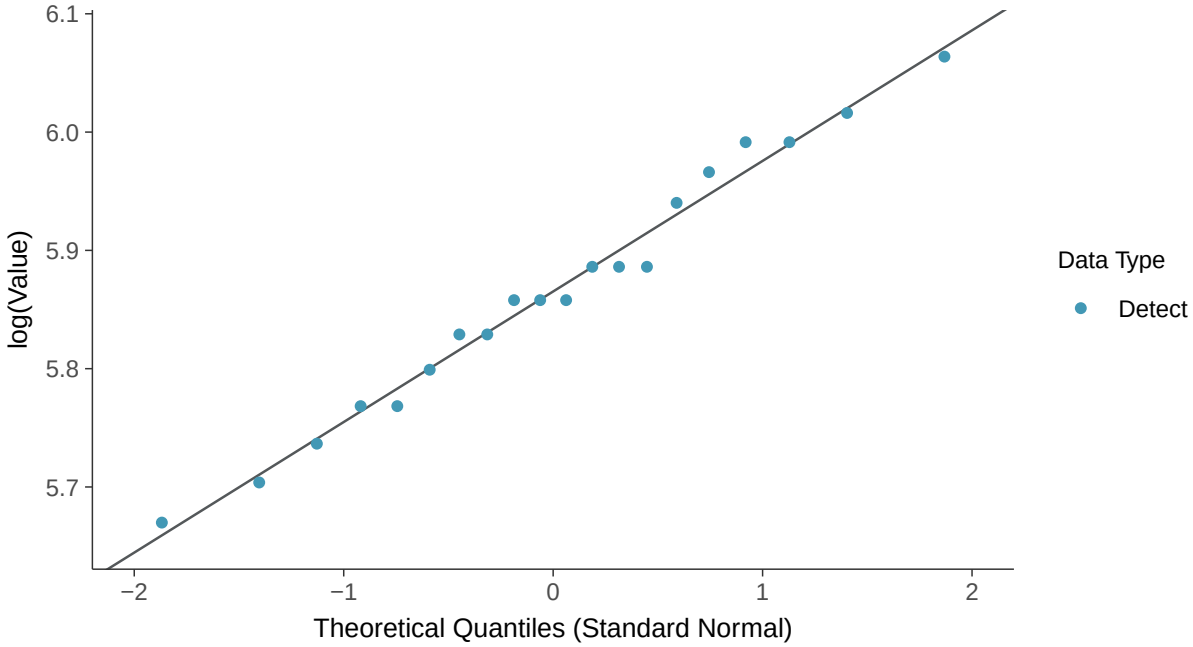
Normal Q-Q plot

Calcium, MW-03 (mg/L)



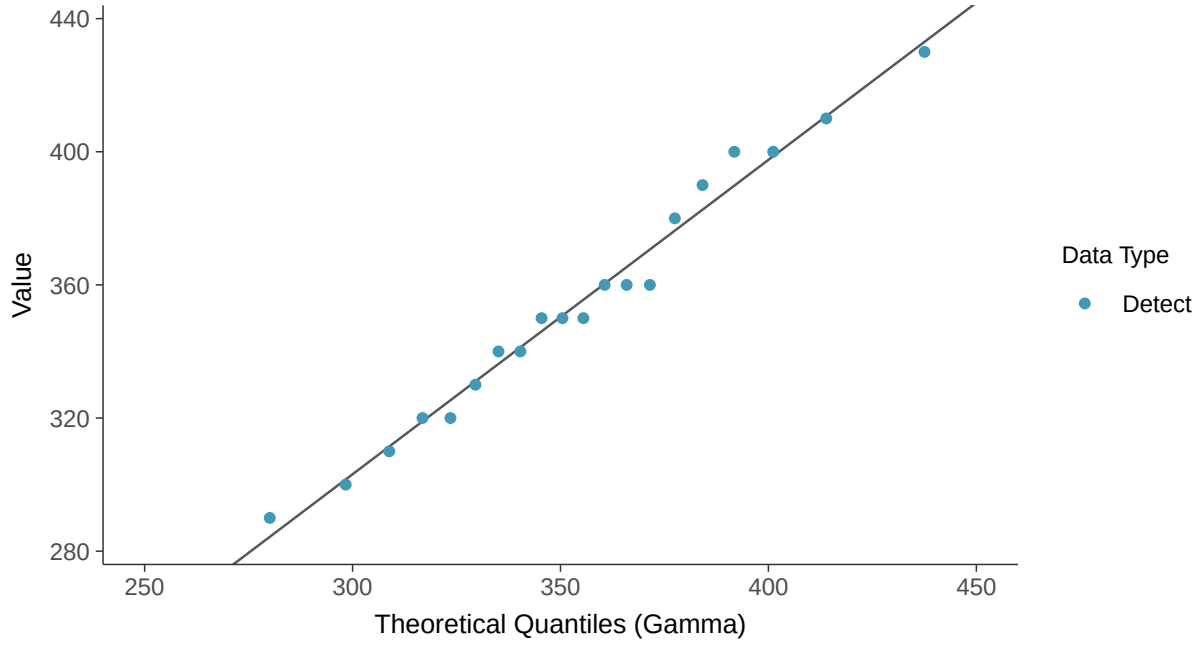
Lognormal Q-Q plot

Calcium, MW-03 (mg/L)



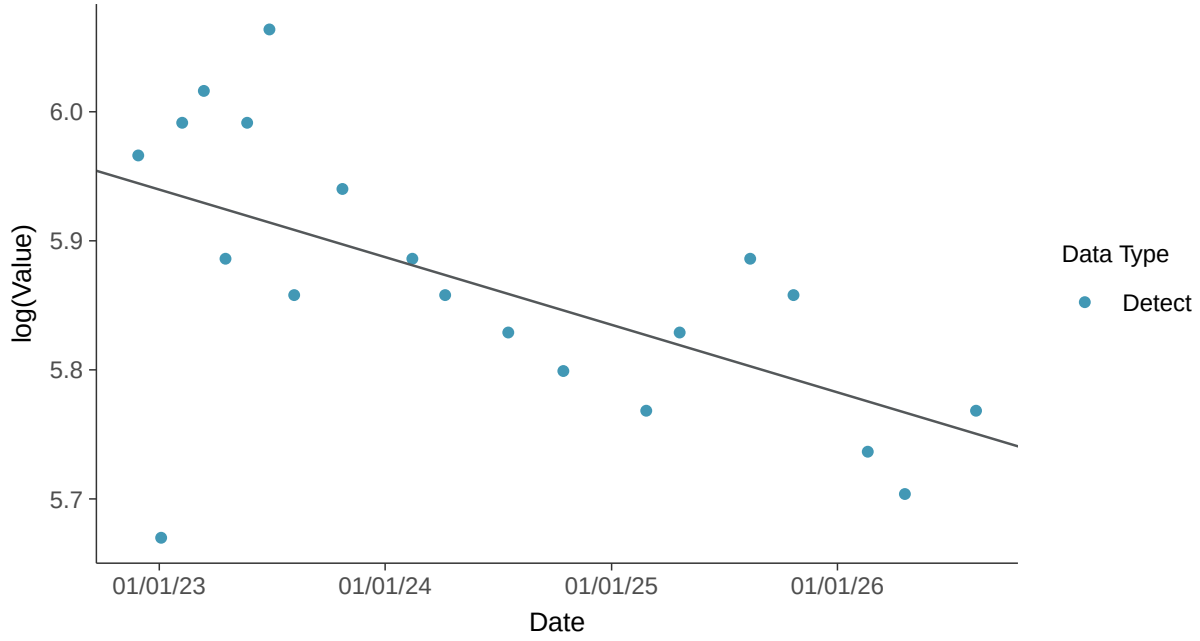
Gamma Q-Q plot

Calcium, MW-03 (mg/L)



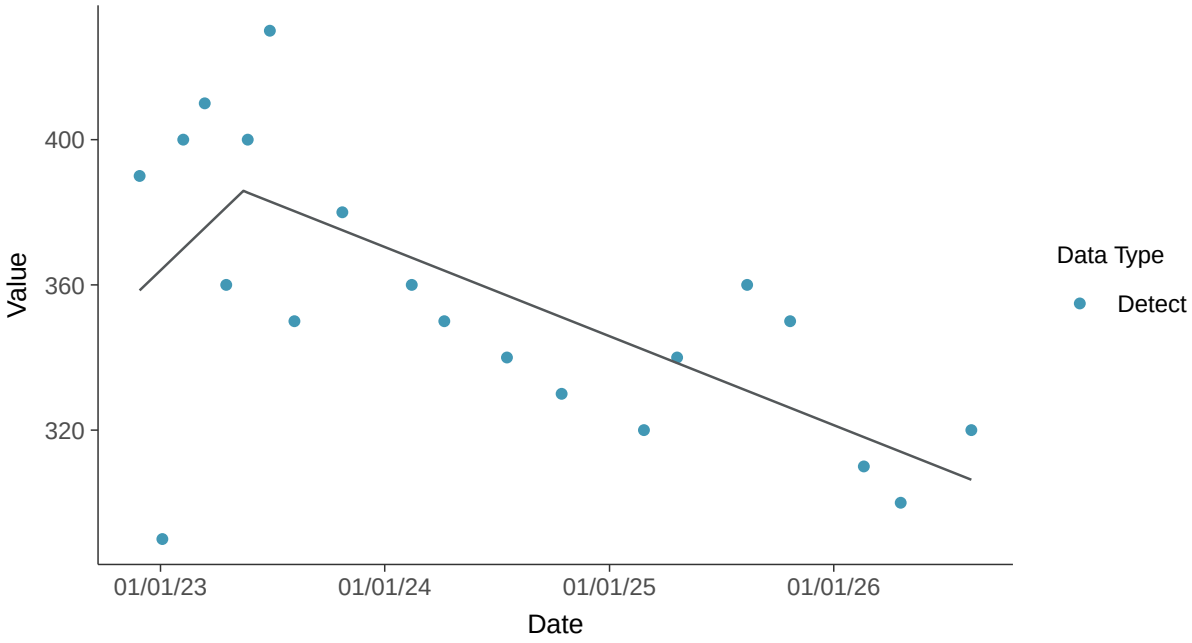
Trend Regression: Lognormal MLE

Calcium, MW-03 (mg/L)



Trend Regression: Piecewise Linear-Linear

Calcium, MW-03 (mg/L)

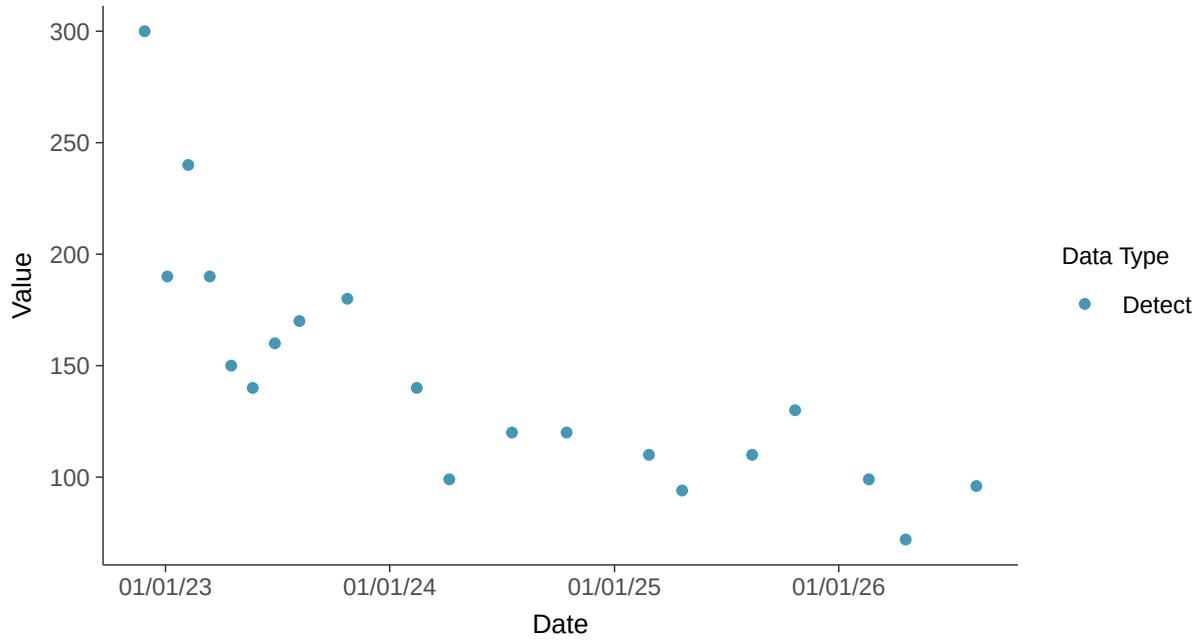


Appendix III: Chloride (as Cl), MW-03

ID: 13_2_3_108

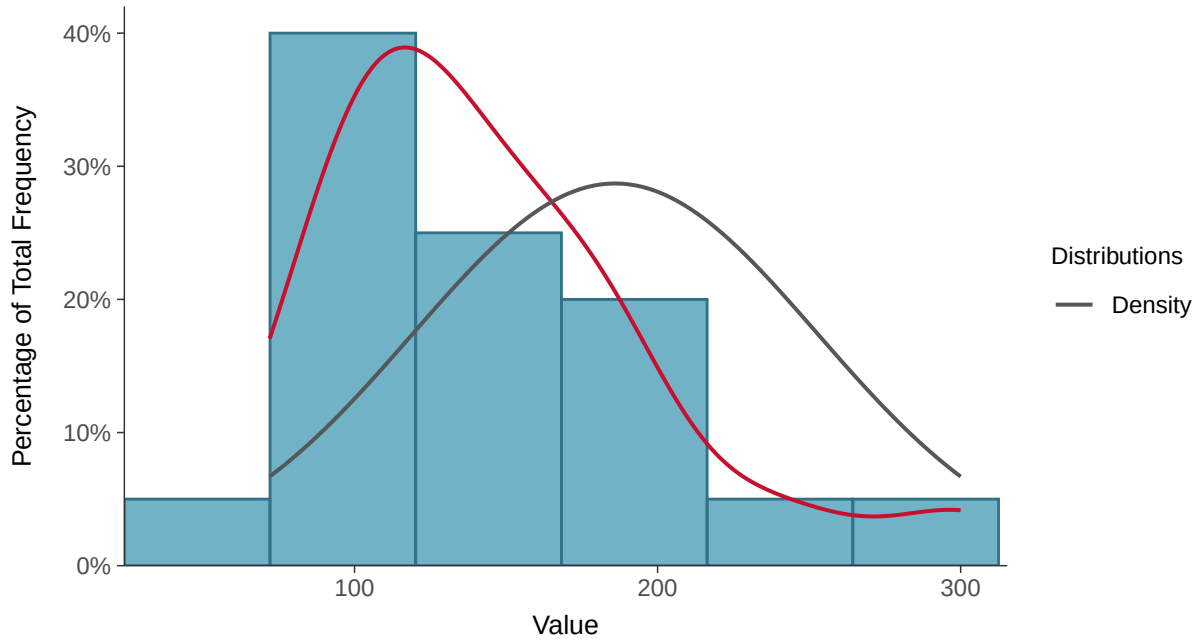
Scatter Plot

Chloride (as Cl), MW-03 (mg/L)



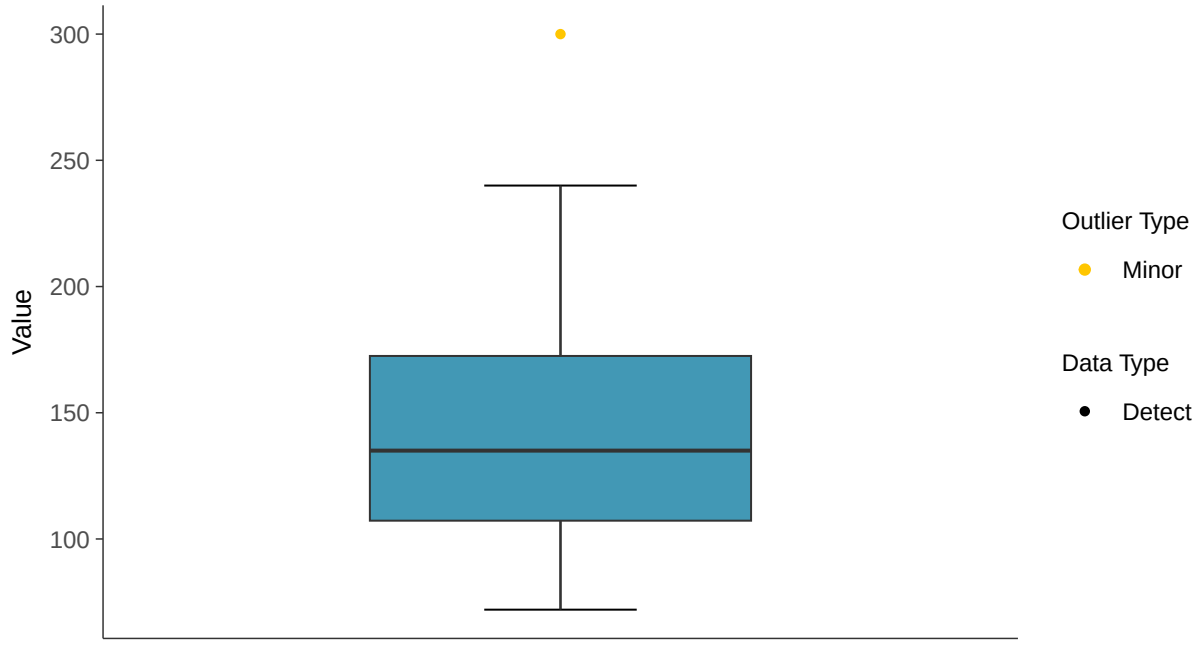
Histogram

Chloride (as Cl), MW-03 (mg/L)



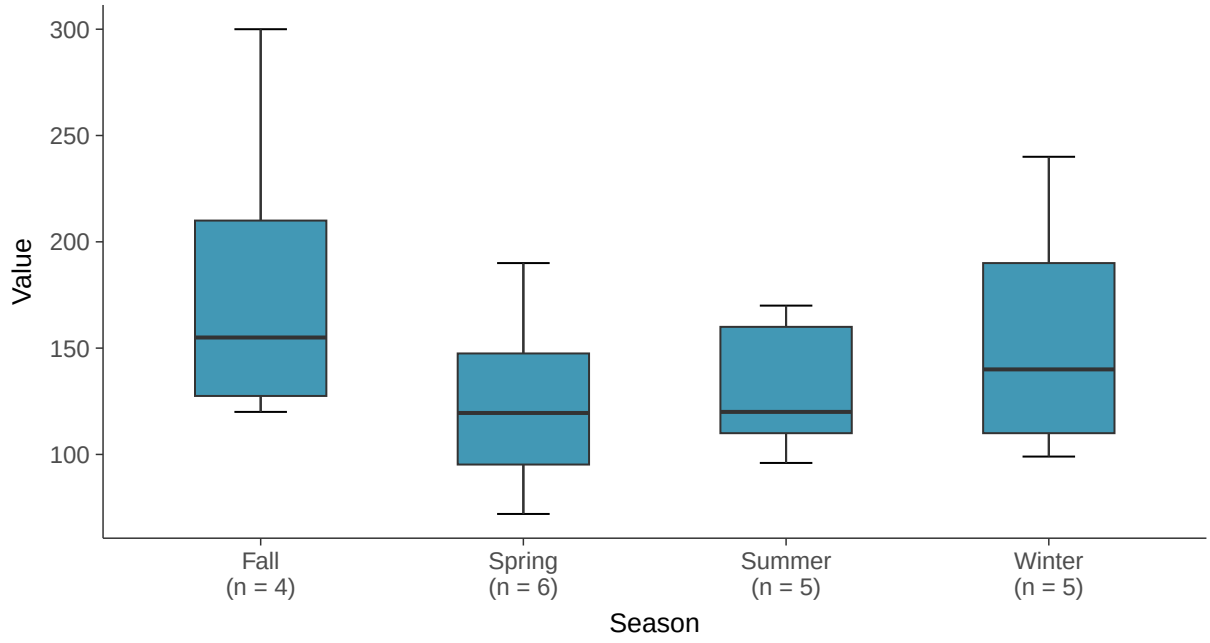
Boxplot

Chloride (as Cl), MW-03 (mg/L)



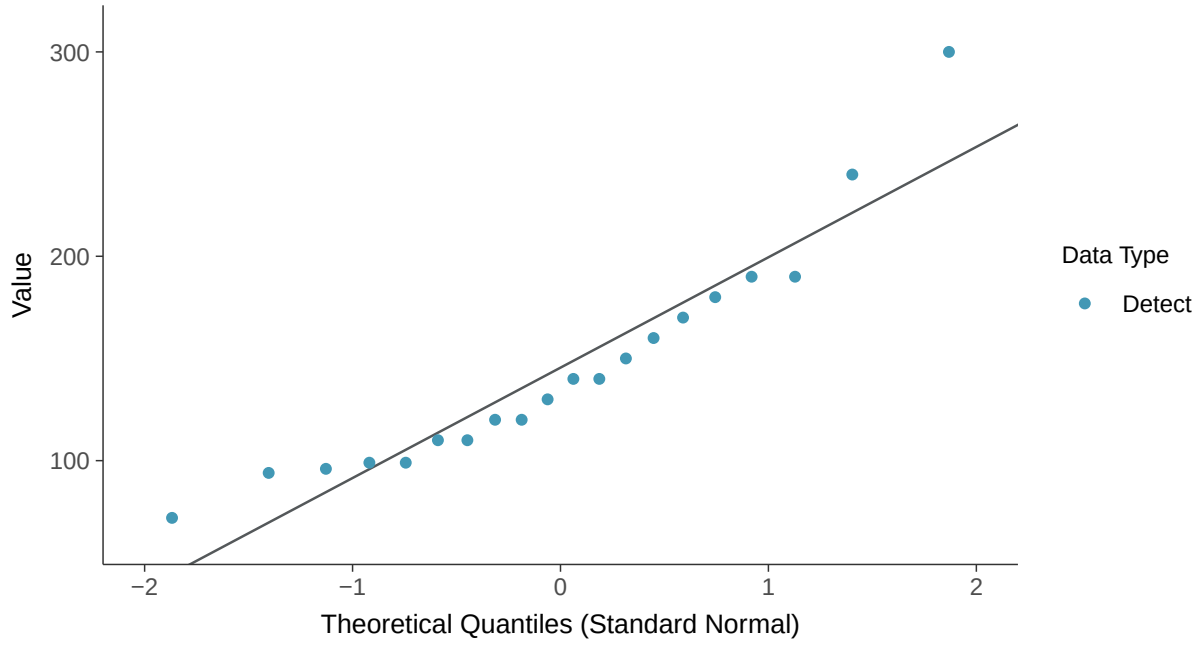
Boxplot by Season

Chloride (as Cl), MW-03 (mg/L)



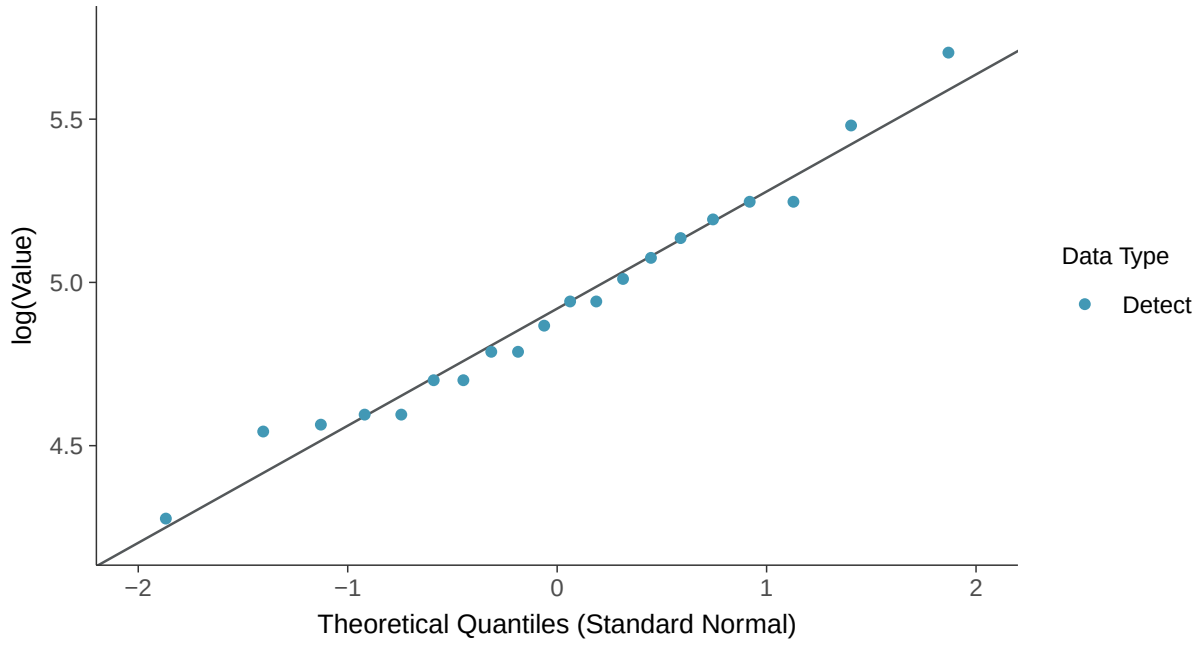
Normal Q-Q plot

Chloride (as Cl), MW-03 (mg/L)



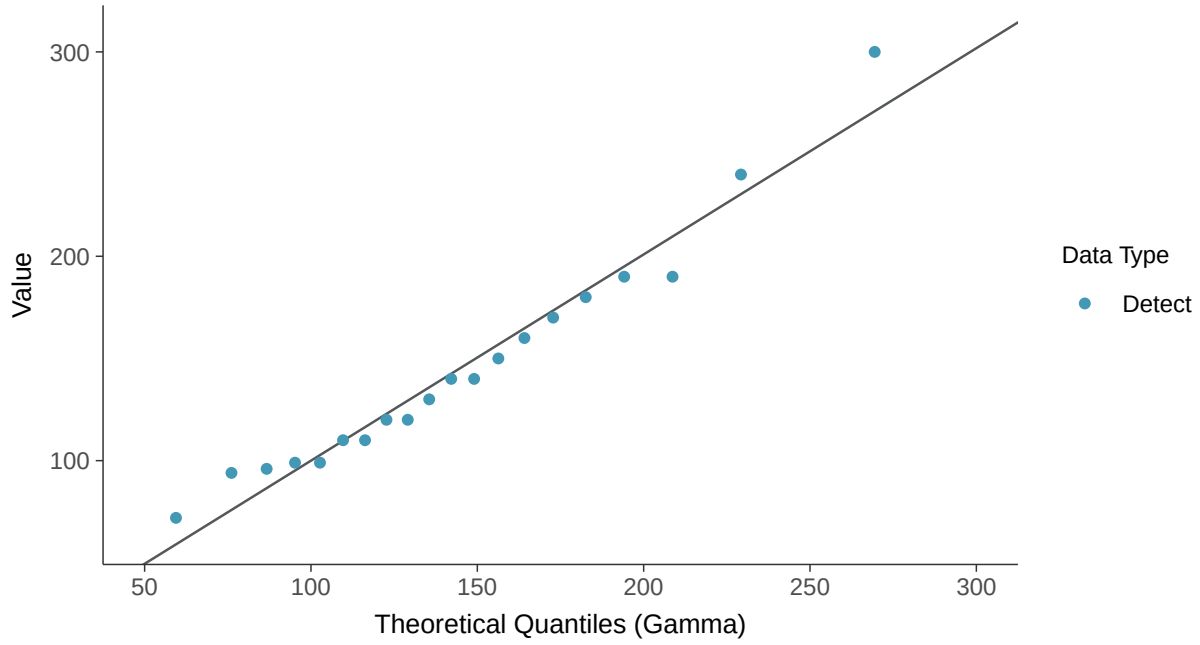
Lognormal Q-Q plot

Chloride (as Cl), MW-03 (mg/L)



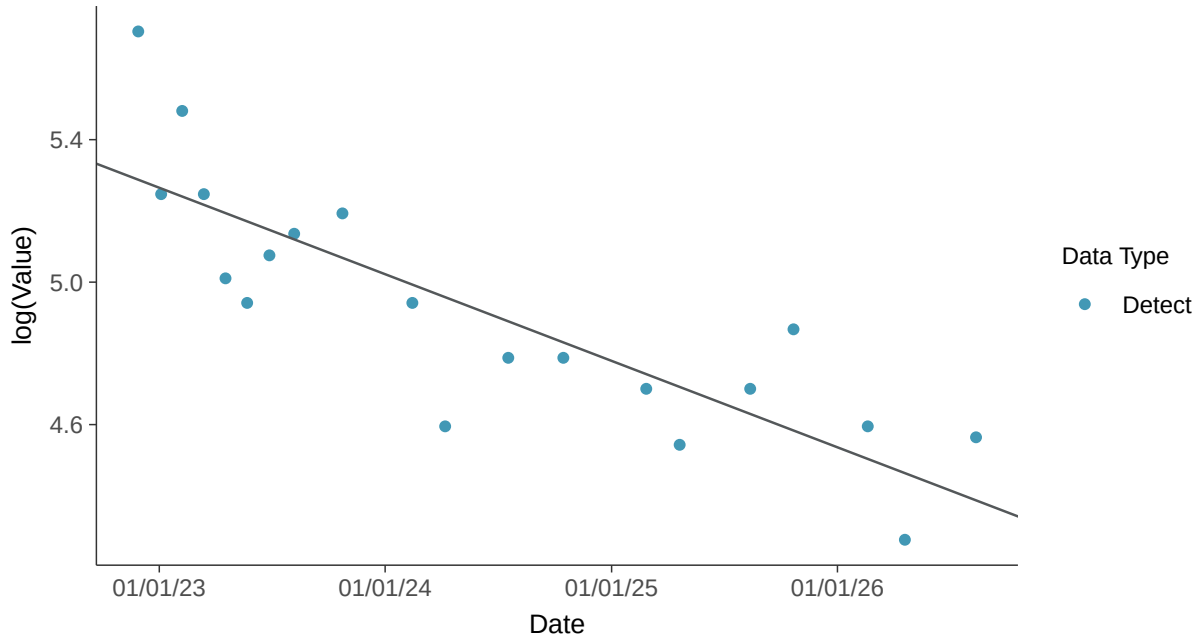
Gamma Q-Q plot

Chloride (as Cl), MW-03 (mg/L)



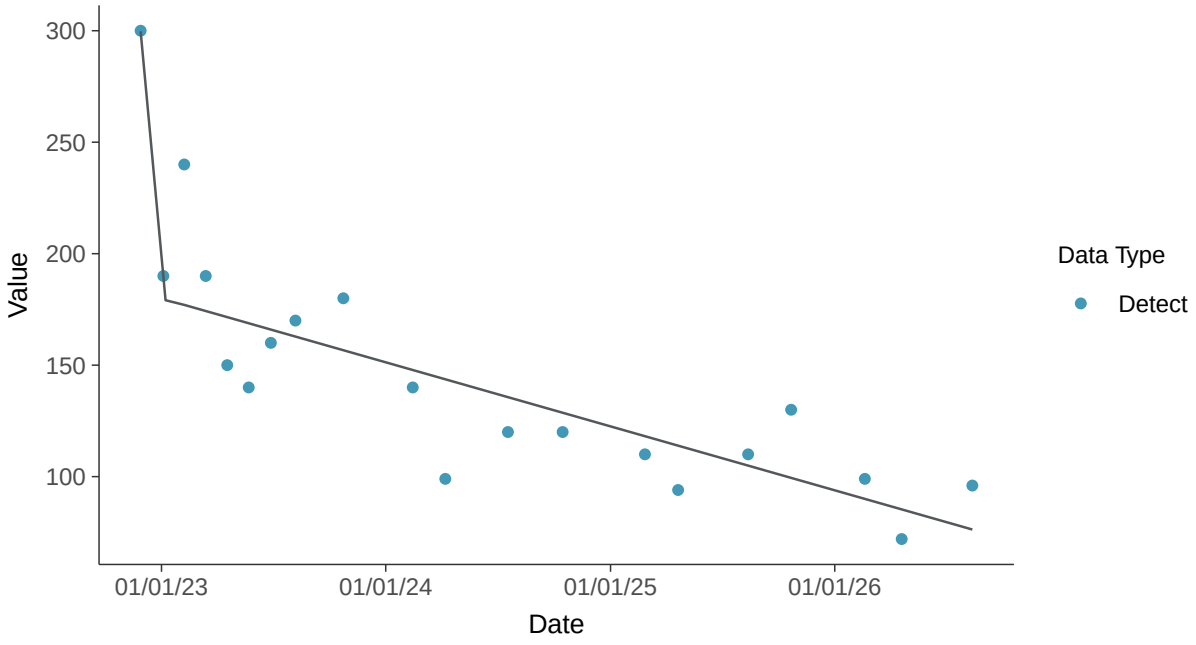
Trend Regression: Lognormal MLE

Chloride (as Cl), MW-03 (mg/L)



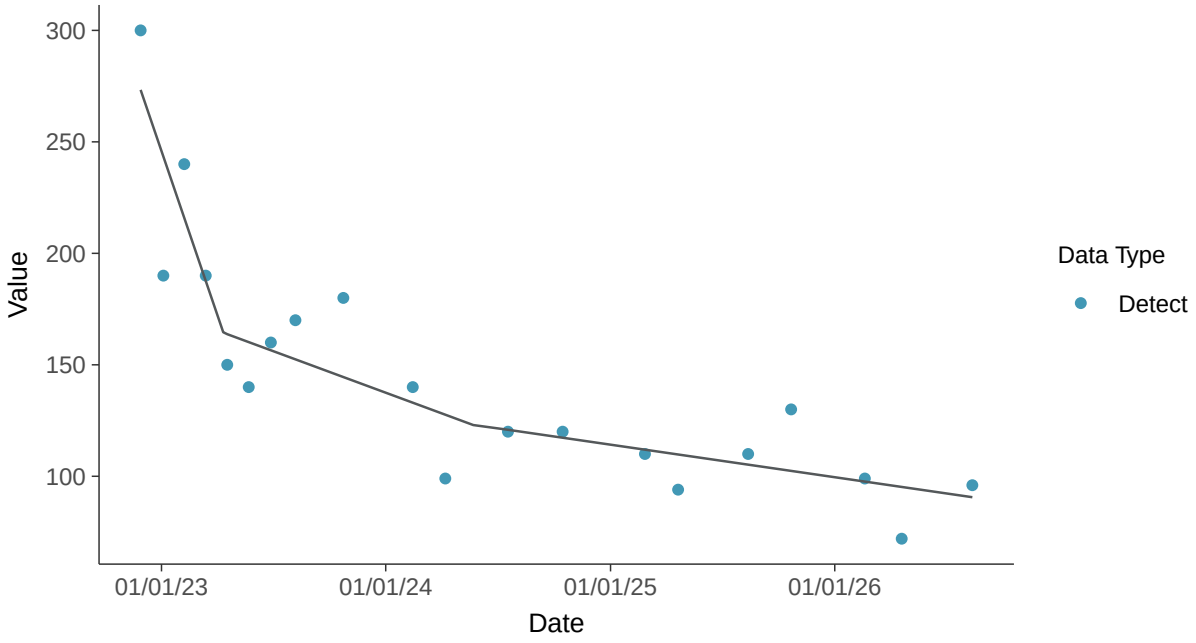
Trend Regression: Piecewise Linear-Linear

Chloride (as Cl), MW-03 (mg/L)



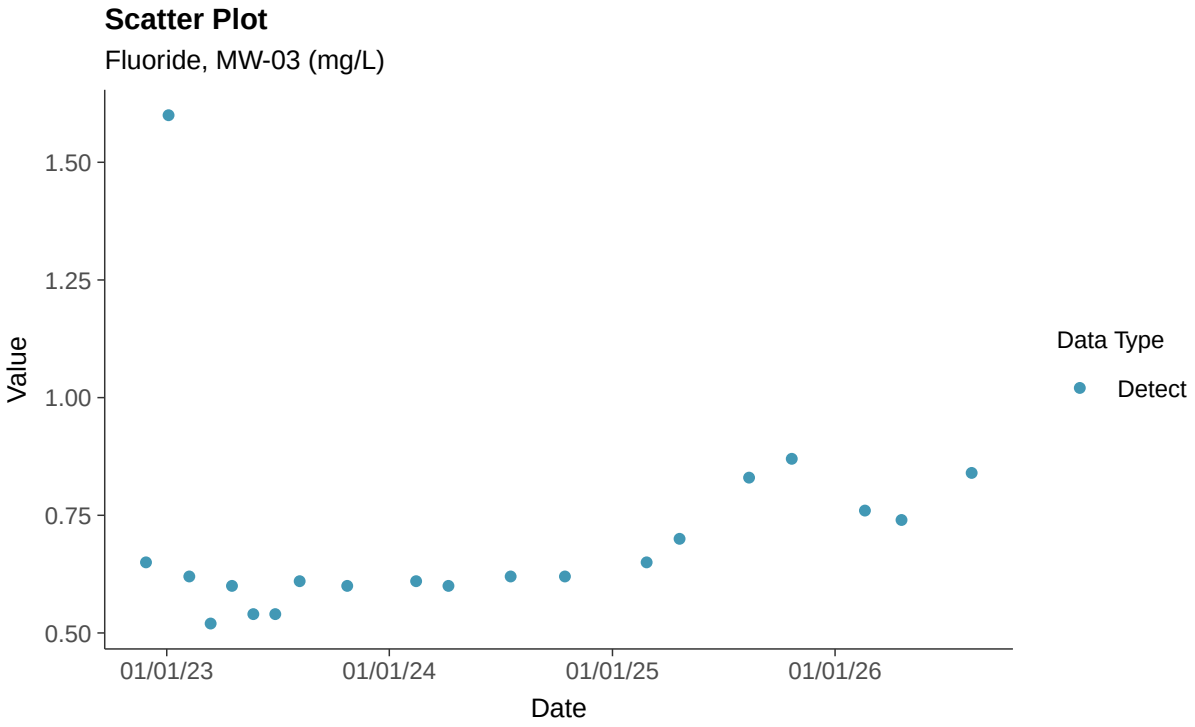
Trend Regression: Piecewise Linear-Linear-Linear

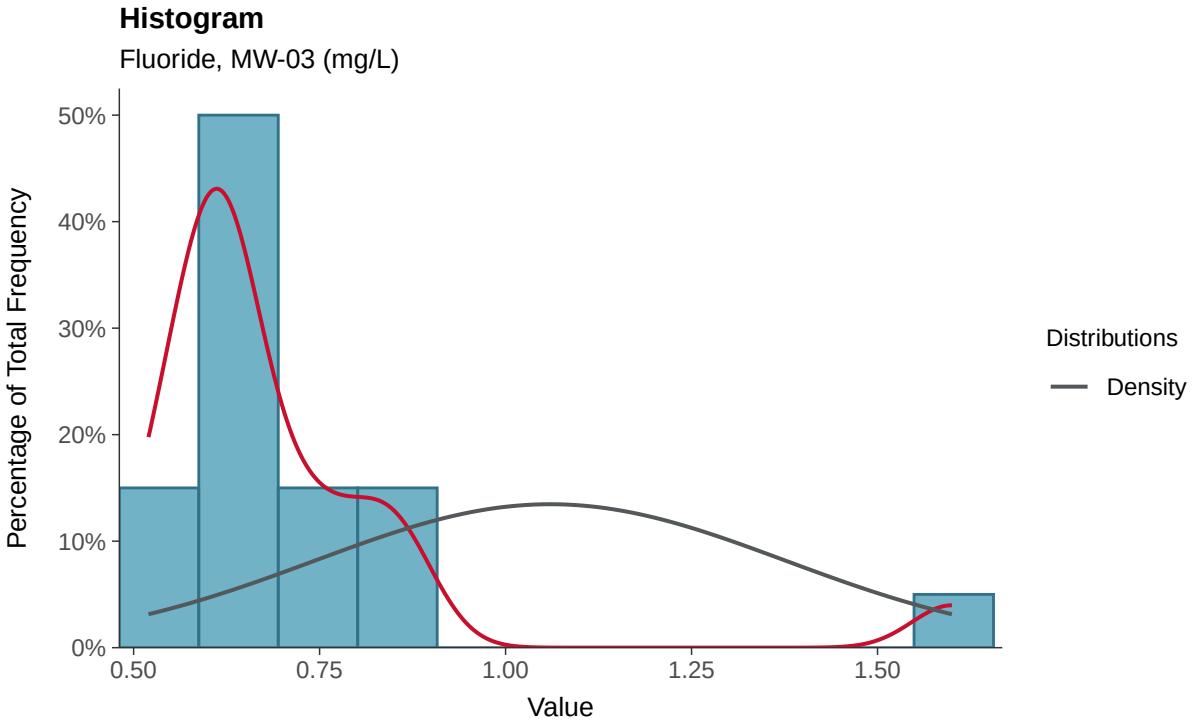
Chloride (as Cl), MW-03 (mg/L)



Appendix III: Fluoride, MW-03

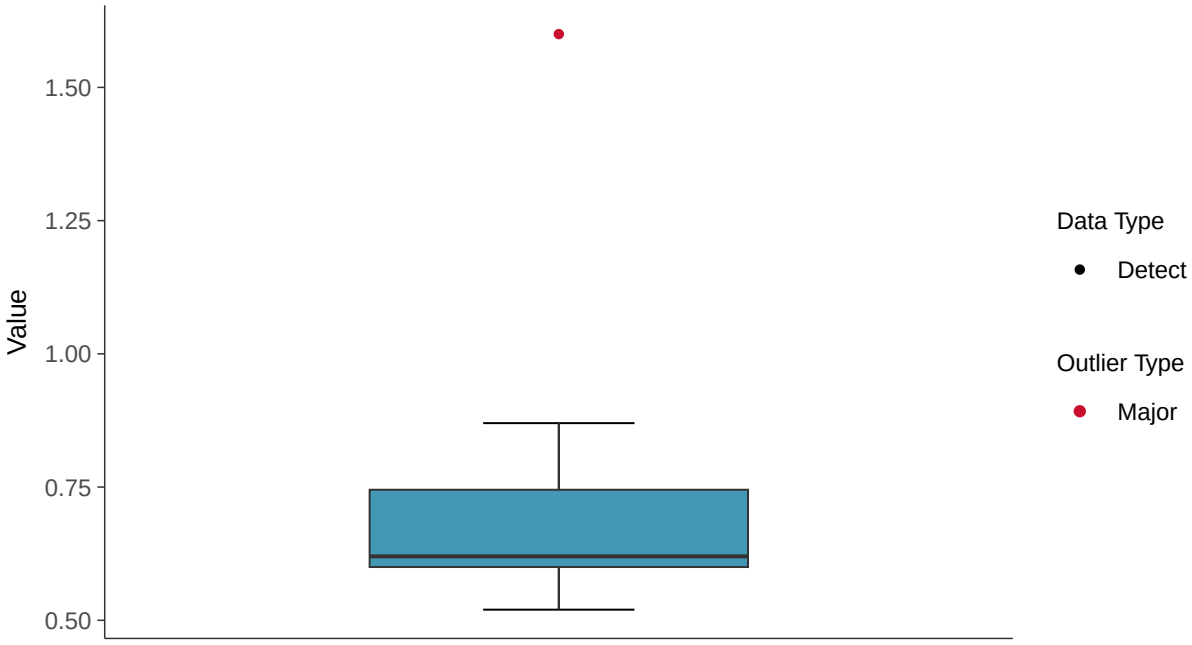
ID: 13_2_3_112





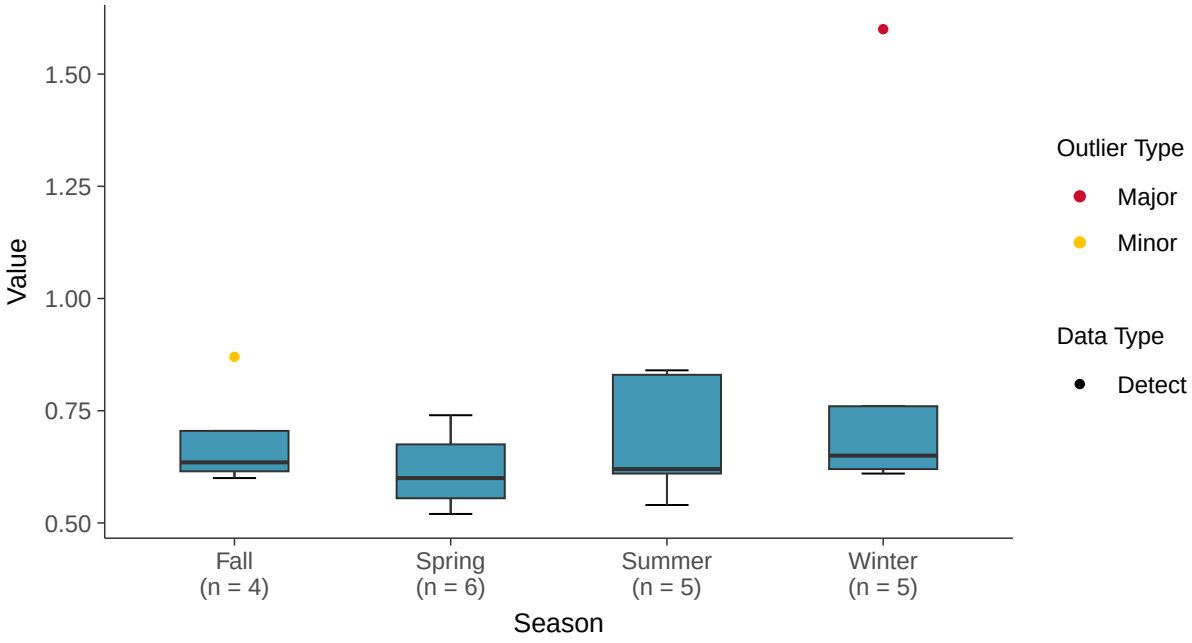
Boxplot

Fluoride, MW-03 (mg/L)



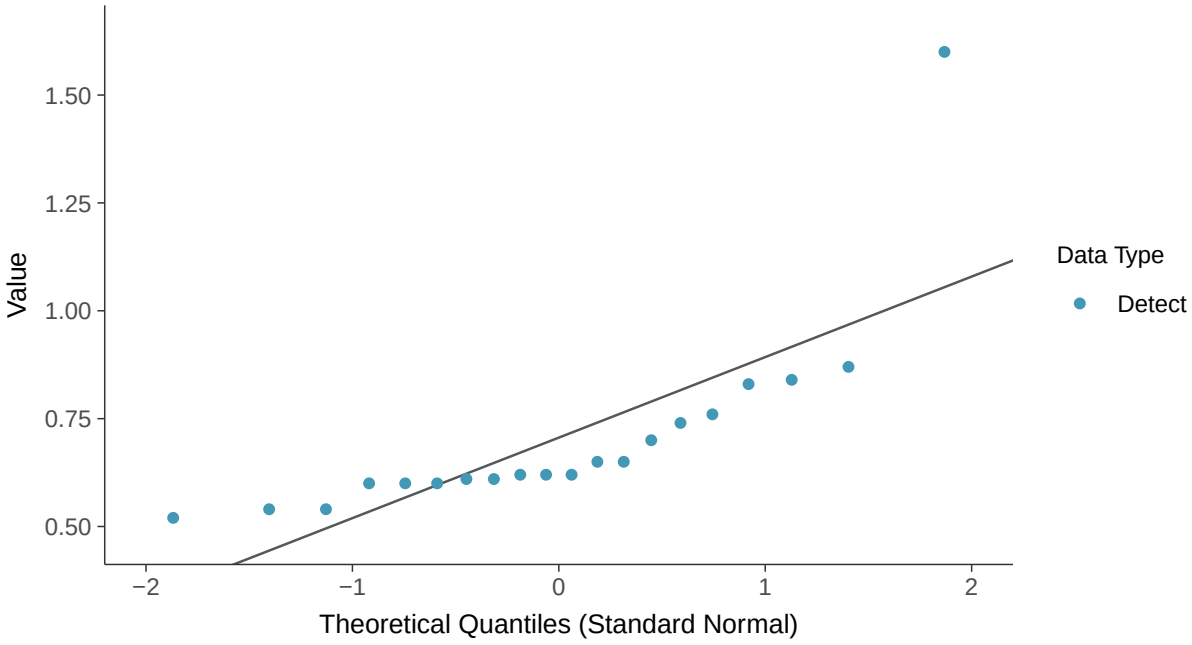
Boxplot by Season

Fluoride, MW-03 (mg/L)



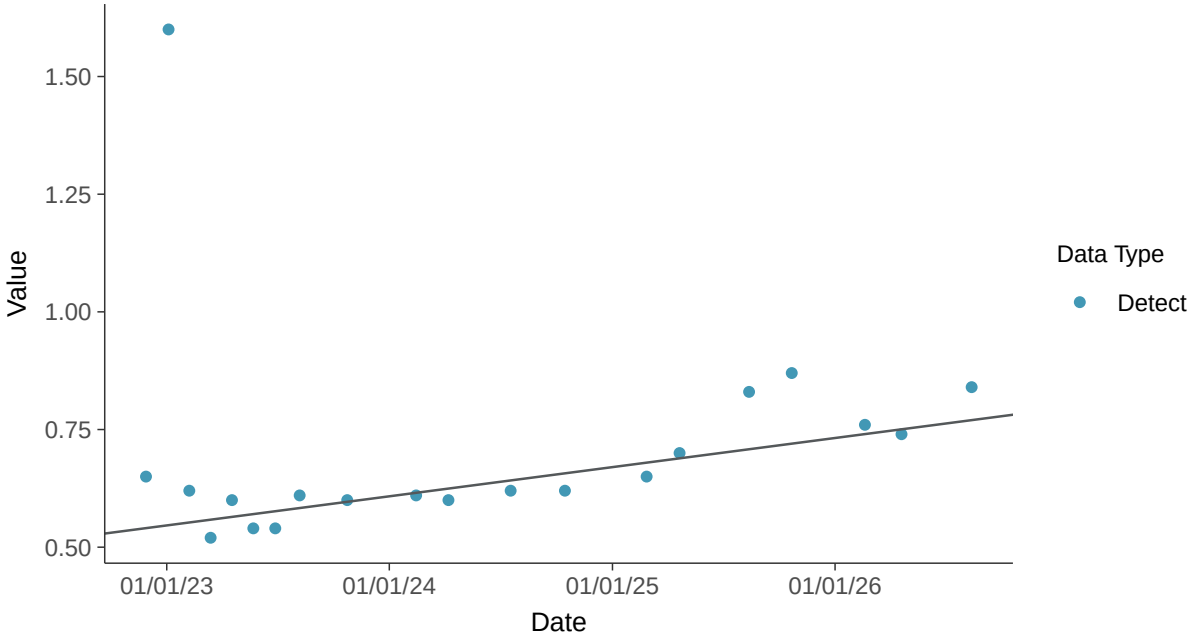
Normal Q-Q plot

Fluoride, MW-03 (mg/L)



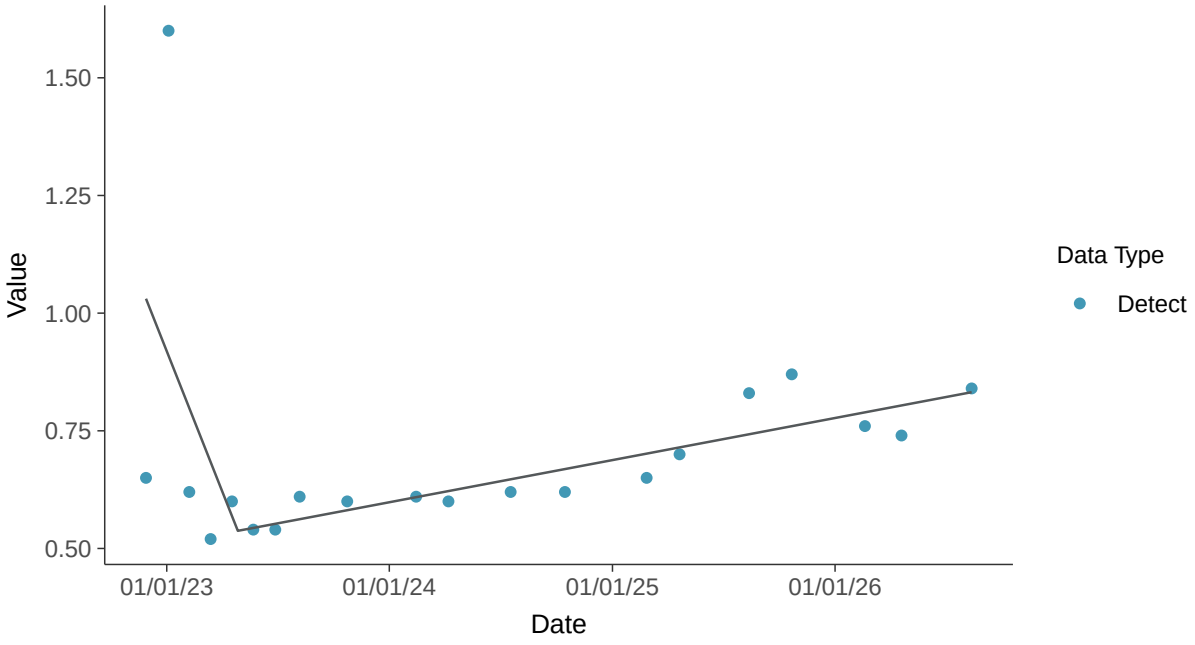
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Fluoride, MW-03 (mg/L)



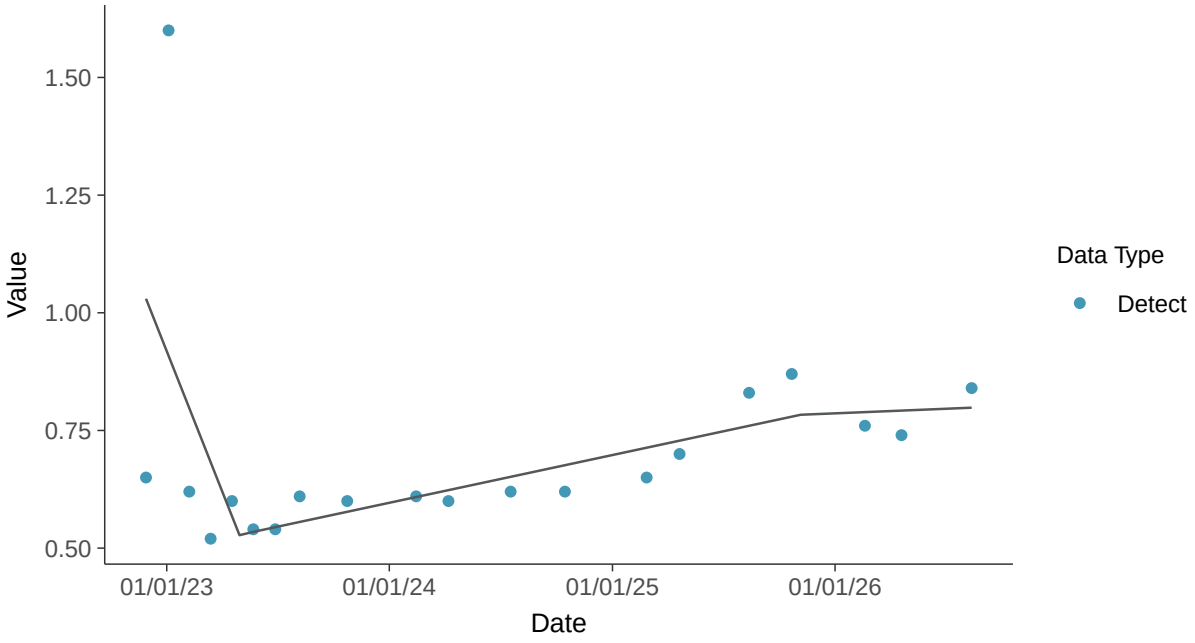
Trend Regression: Piecewise Linear-Linear

Fluoride, MW-03 (mg/L)



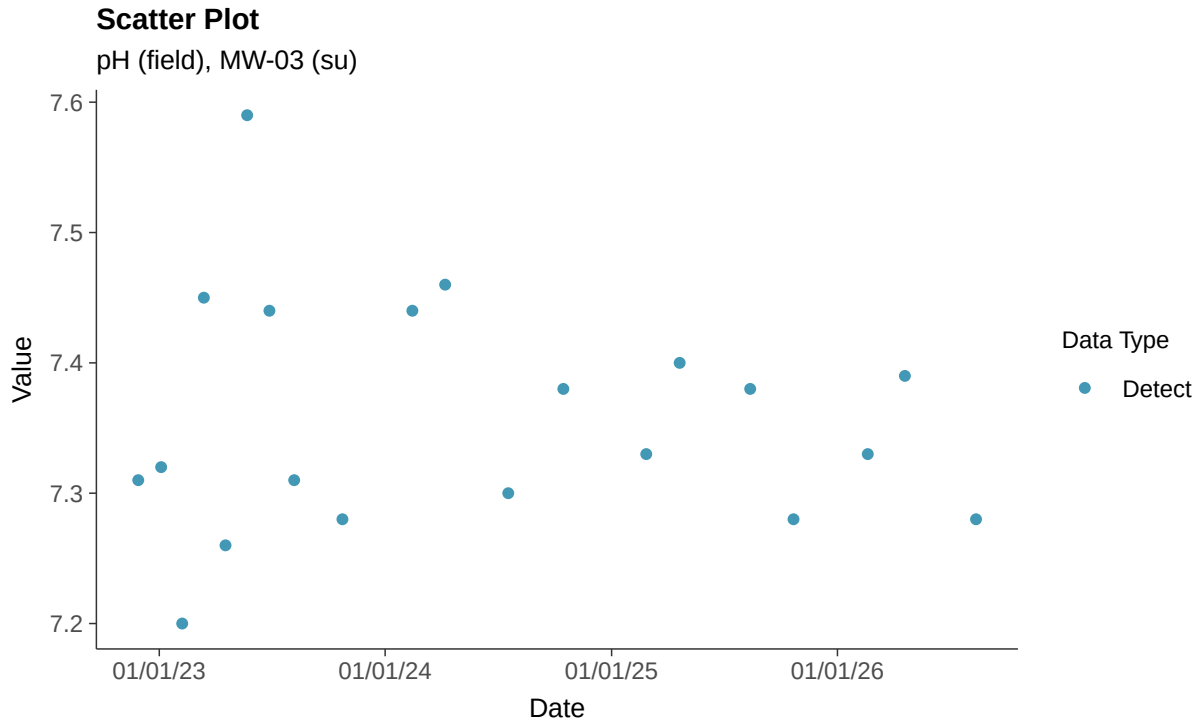
Trend Regression: Piecewise Linear-Linear-Linear

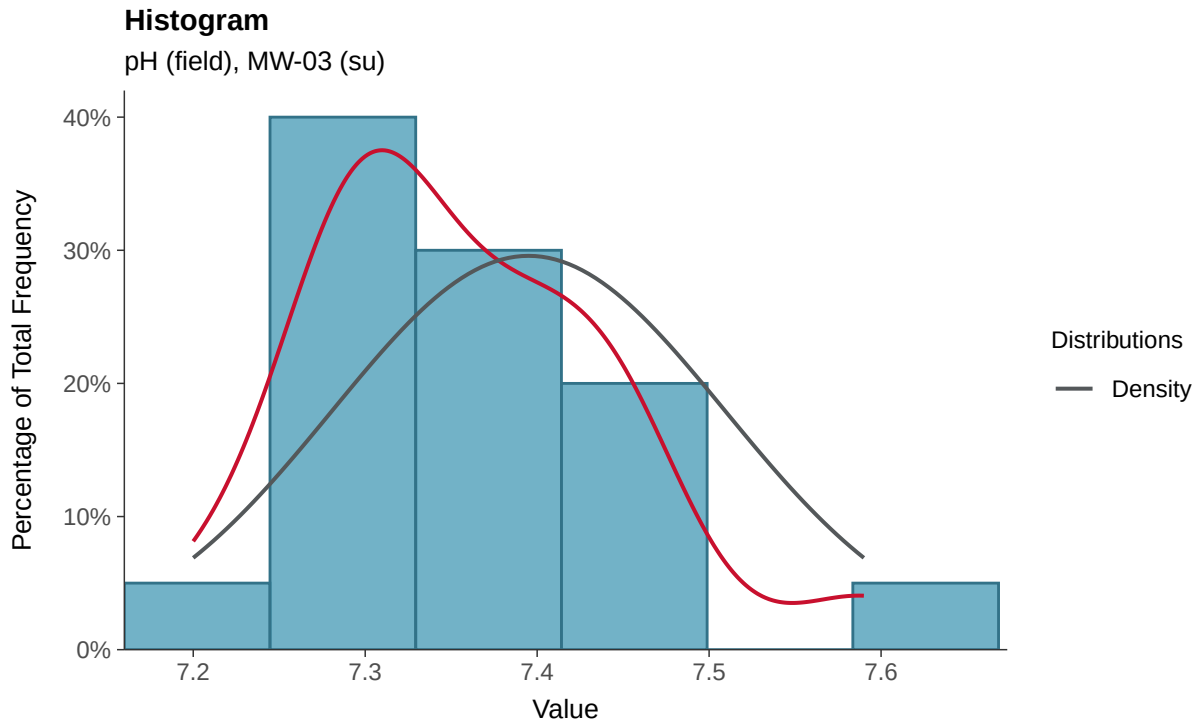
Fluoride, MW-03 (mg/L)



Appendix III: pH (field), MW-03

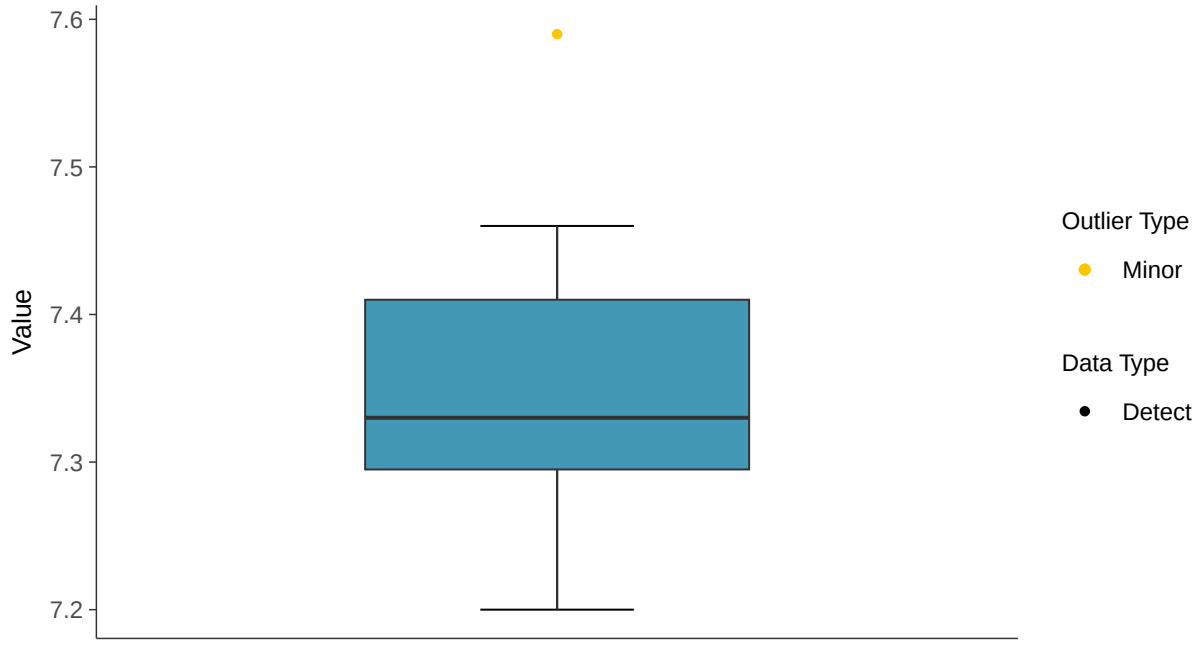
ID: 13_2_3_120





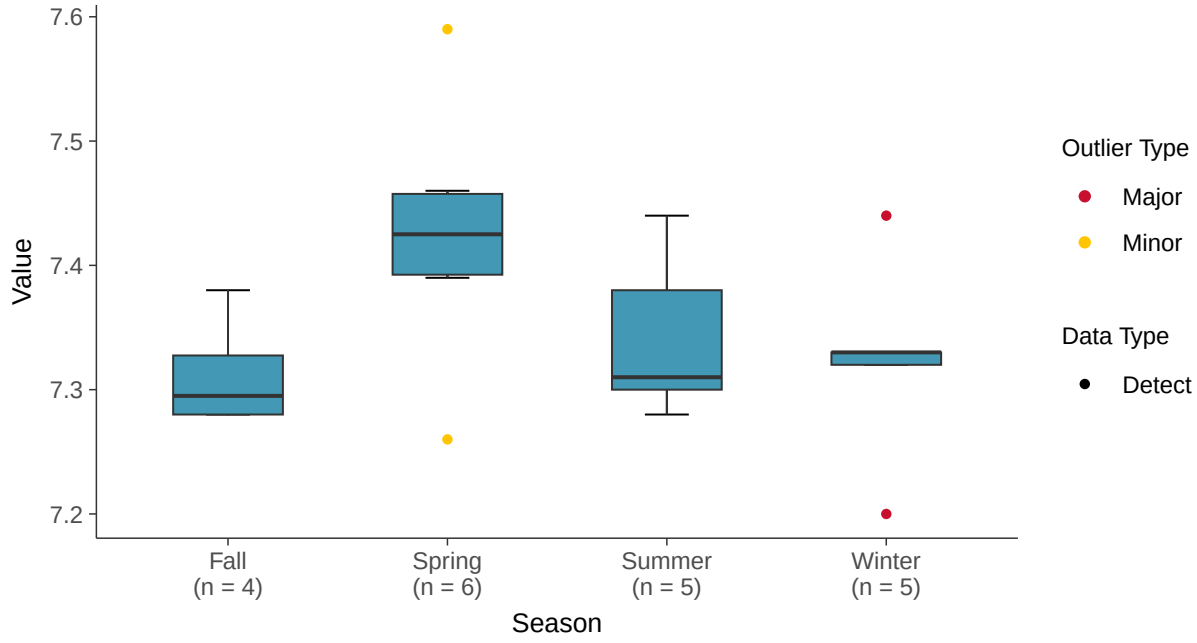
Boxplot

pH (field), MW-03 (su)



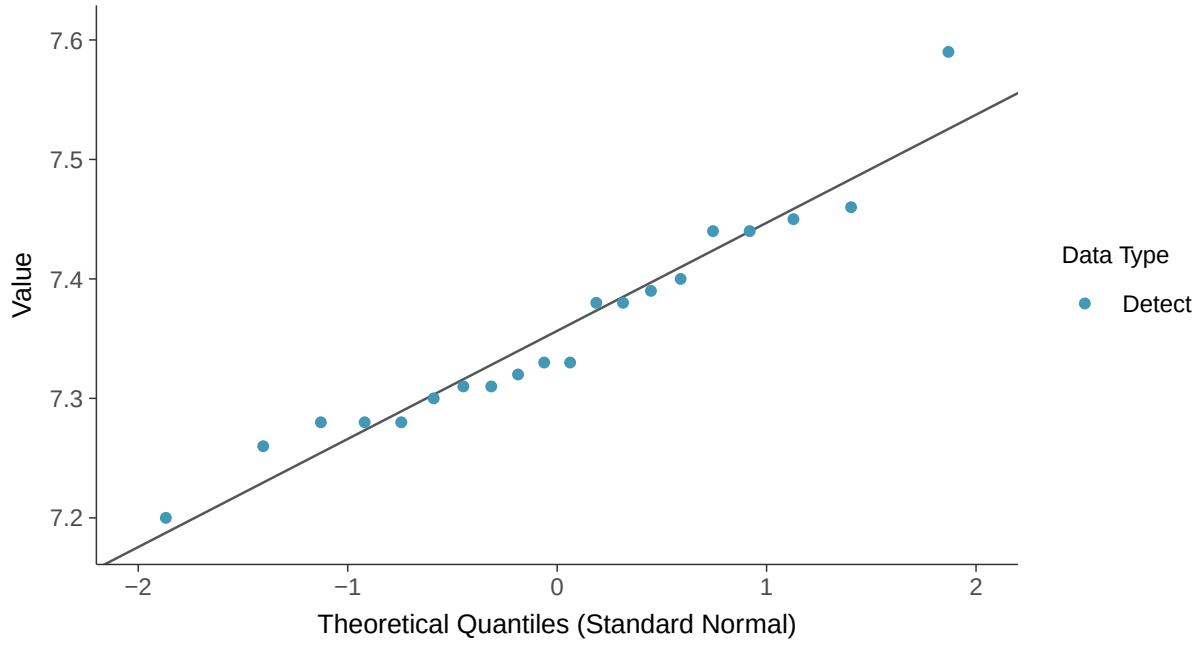
Boxplot by Season

pH (field), MW-03 (su)



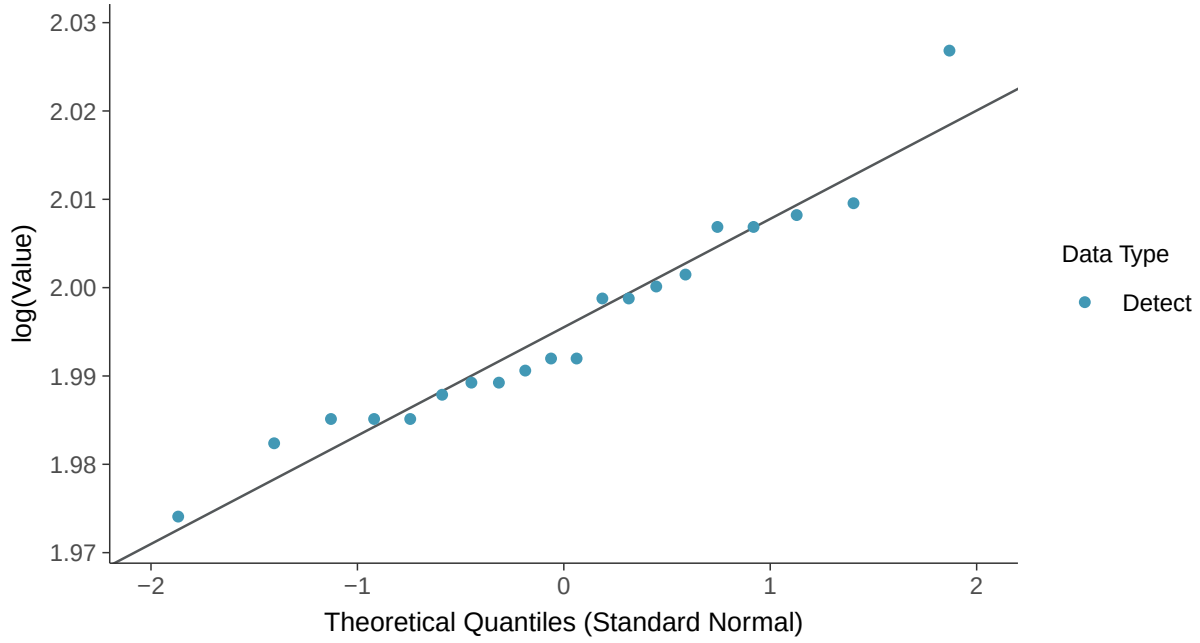
Normal Q-Q plot

pH (field), MW-03 (su)



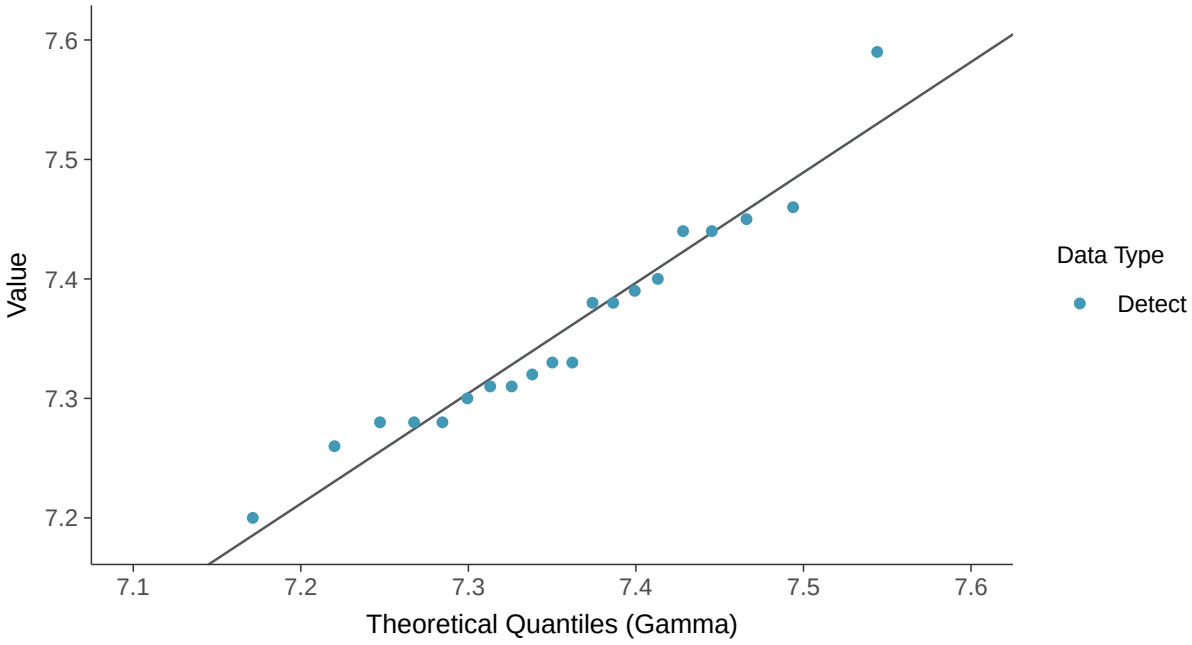
Lognormal Q-Q plot

pH (field), MW-03 (su)



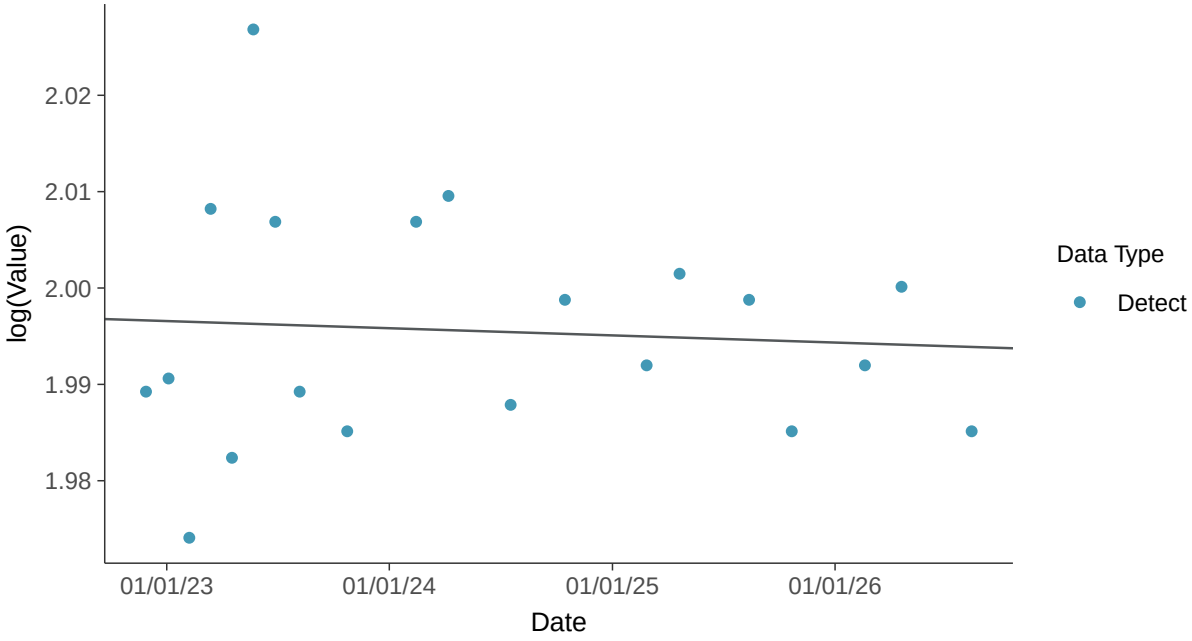
Gamma Q-Q plot

pH (field), MW-03 (su)



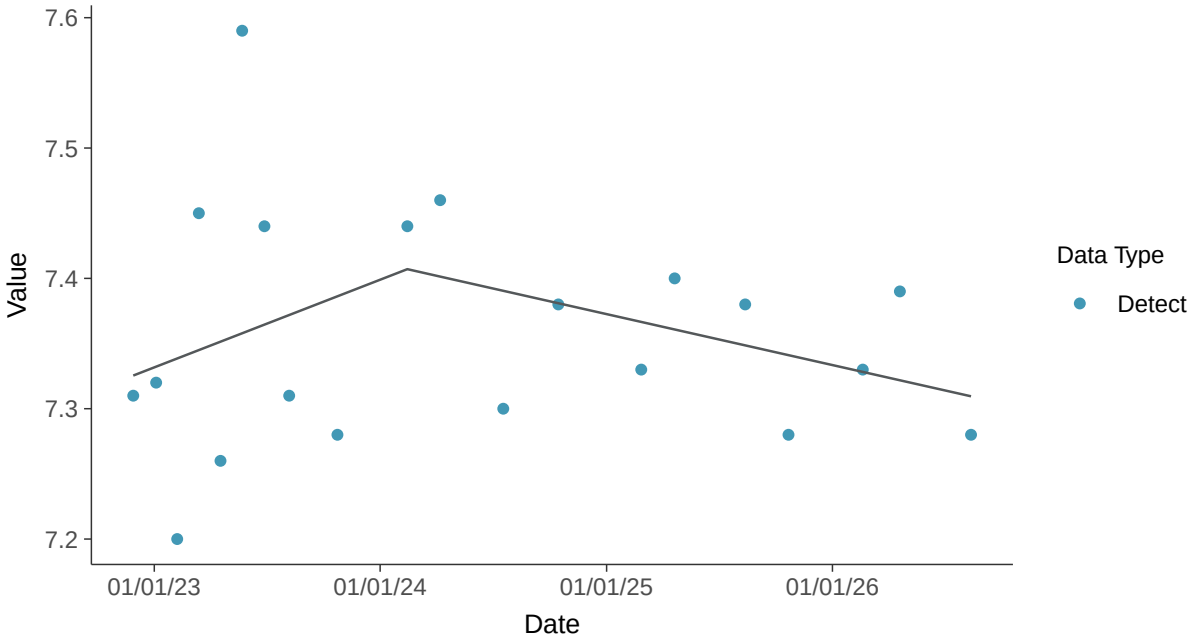
Trend Regression: Lognormal MLE

pH (field), MW-03 (su)



Trend Regression: Piecewise Linear-Linear

pH (field), MW-03 (su)

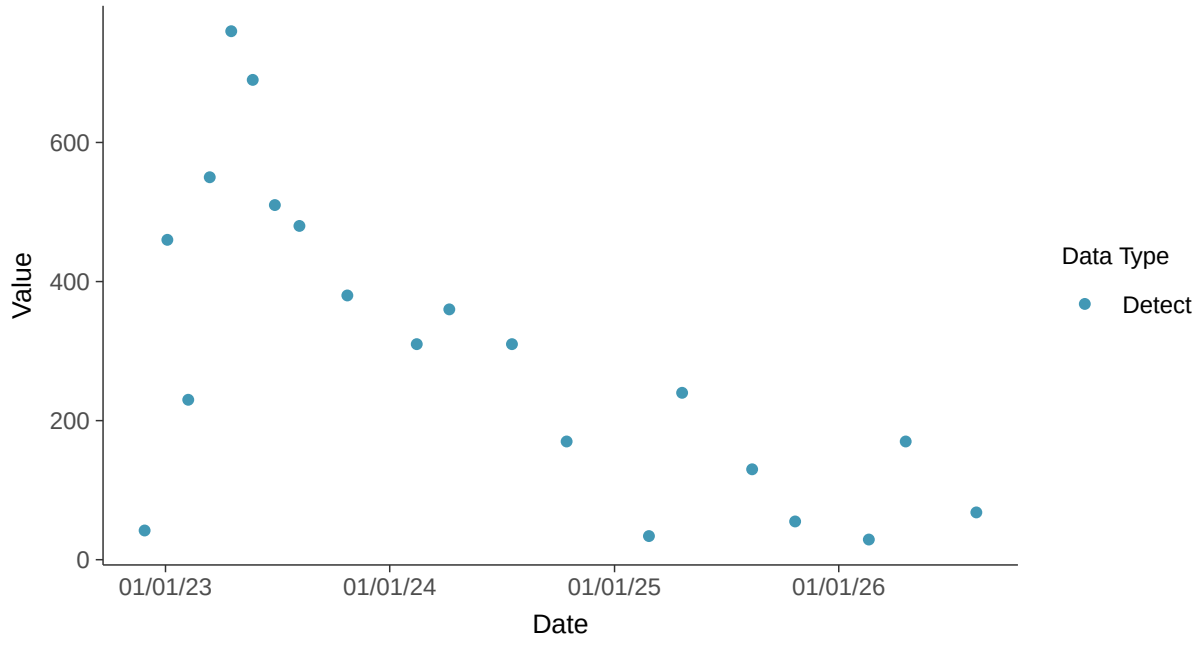


Appendix III: Sulfate (as SO4), MW-03

ID: 13_2_3_124

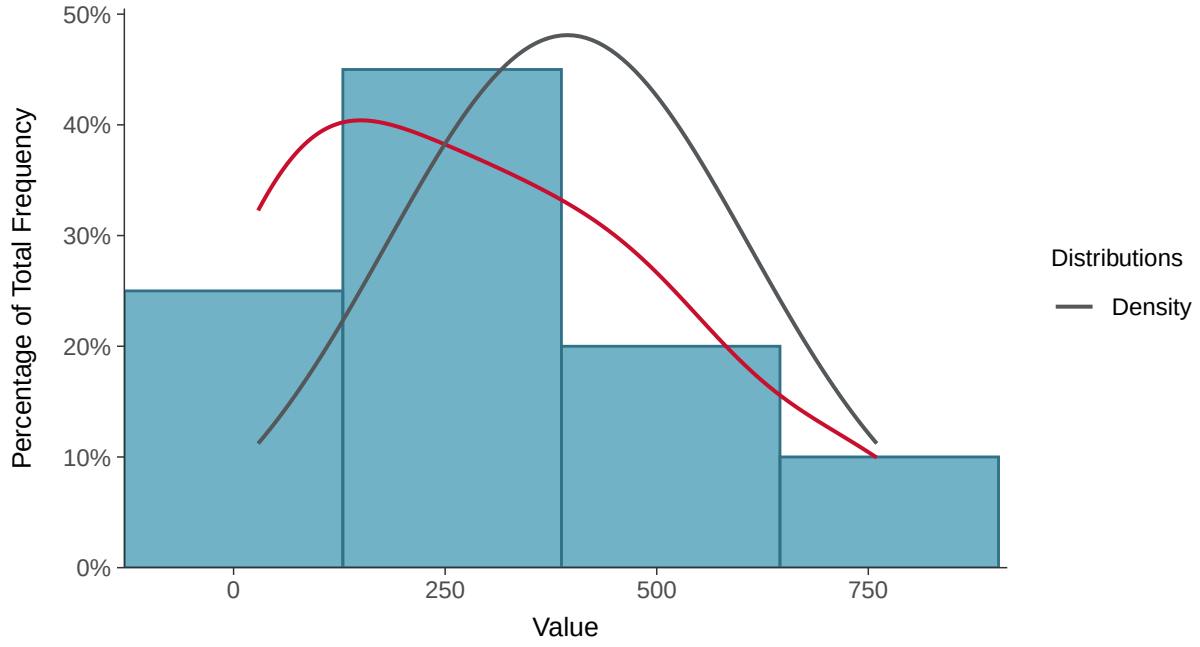
Scatter Plot

Sulfate (as SO4), MW-03 (mg/L)



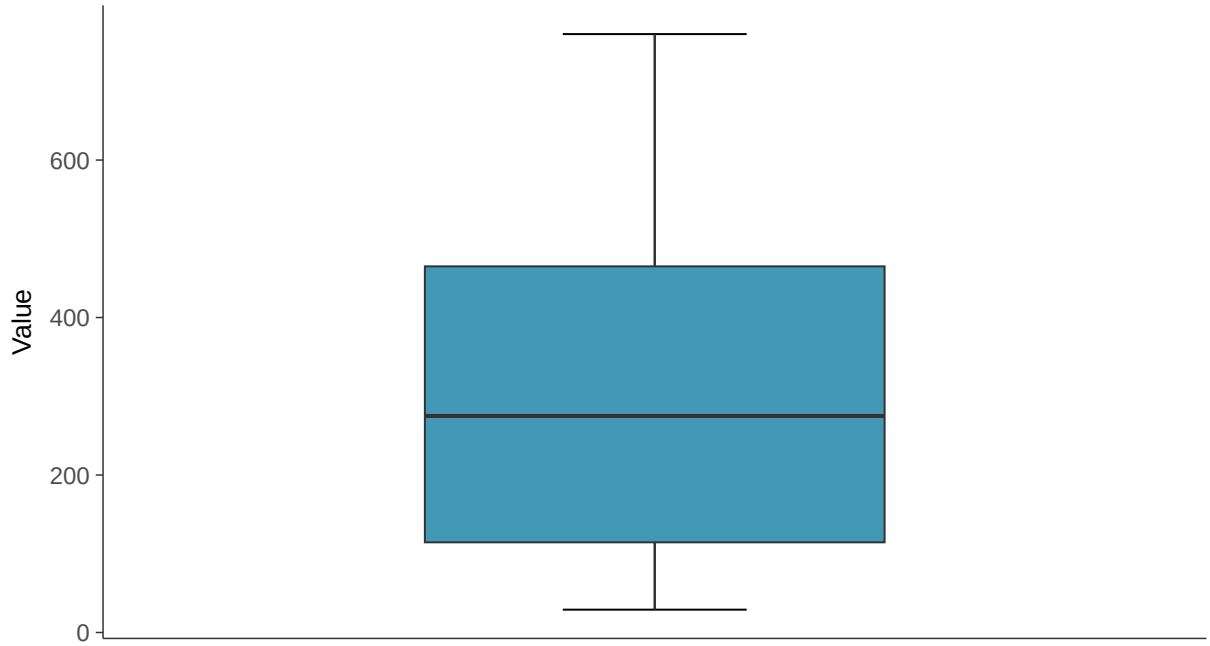
Histogram

Sulfate (as SO4), MW-03 (mg/L)



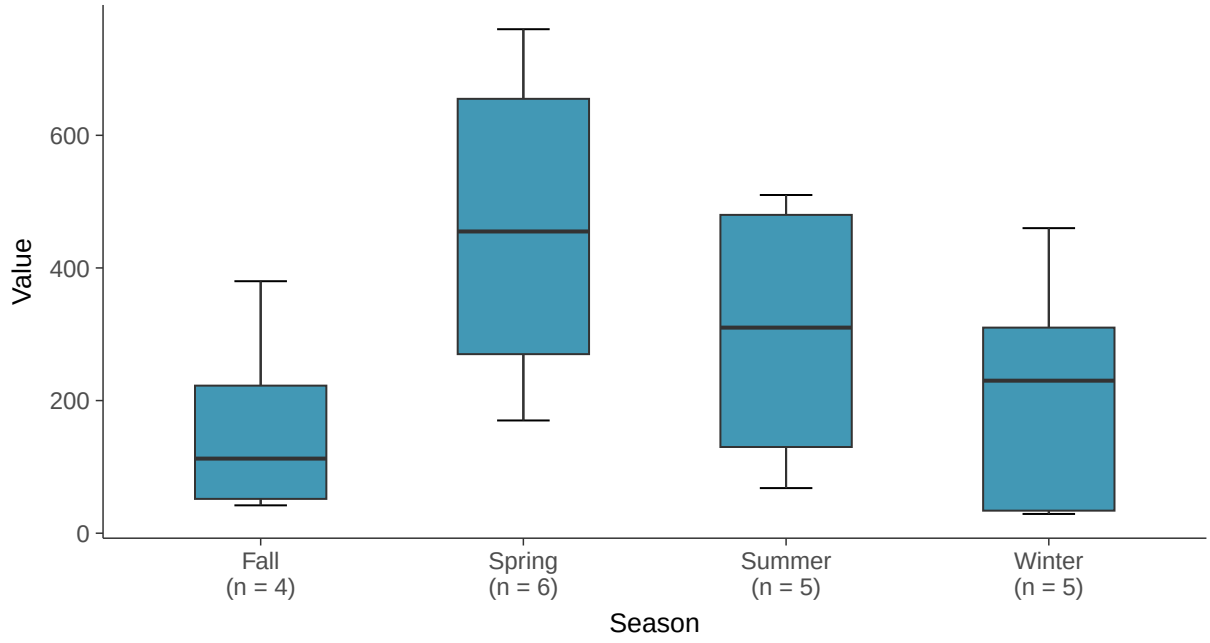
Boxplot

Sulfate (as SO4), MW-03 (mg/L)



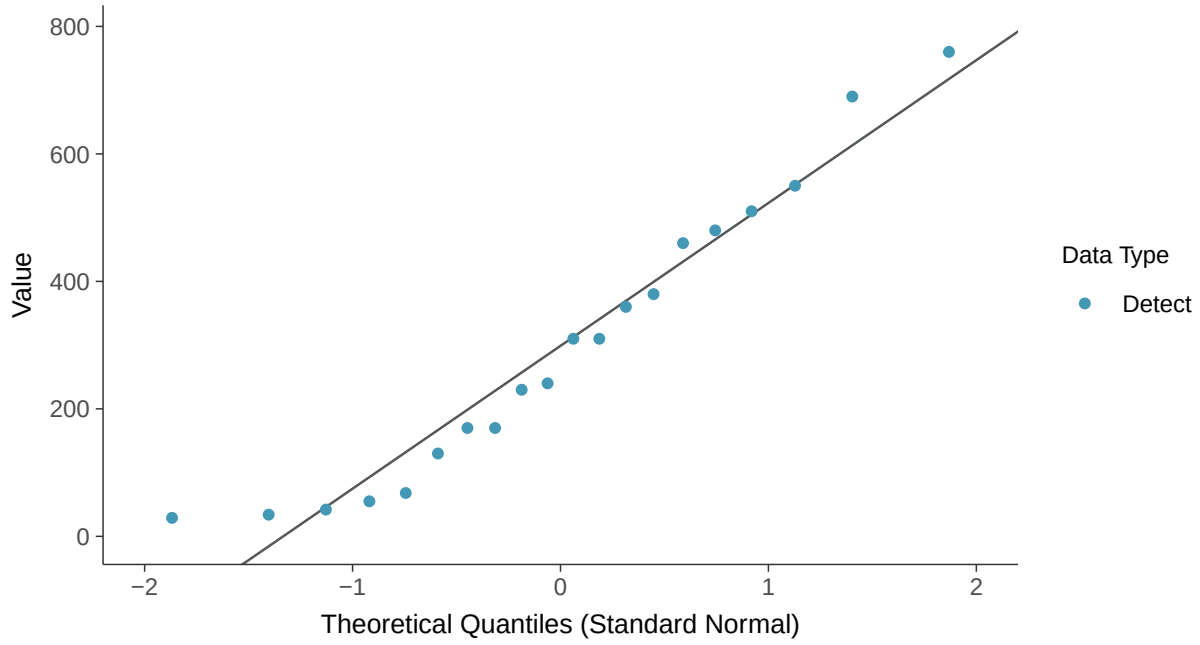
Boxplot by Season

Sulfate (as SO4), MW-03 (mg/L)



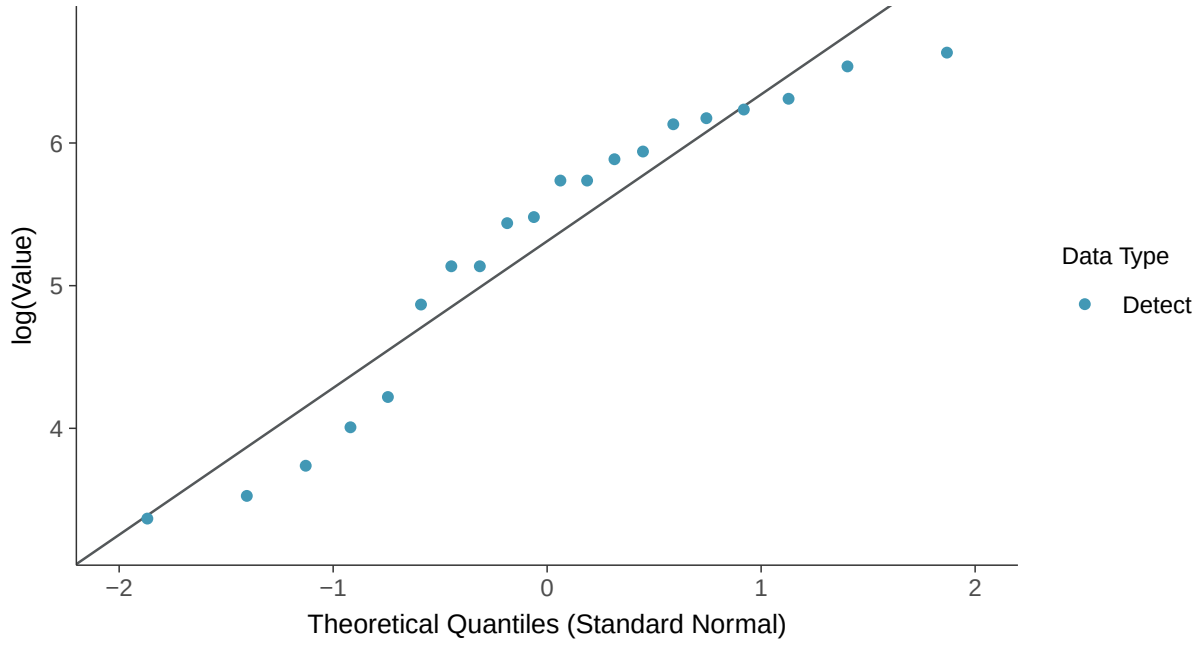
Normal Q-Q plot

Sulfate (as SO4), MW-03 (mg/L)



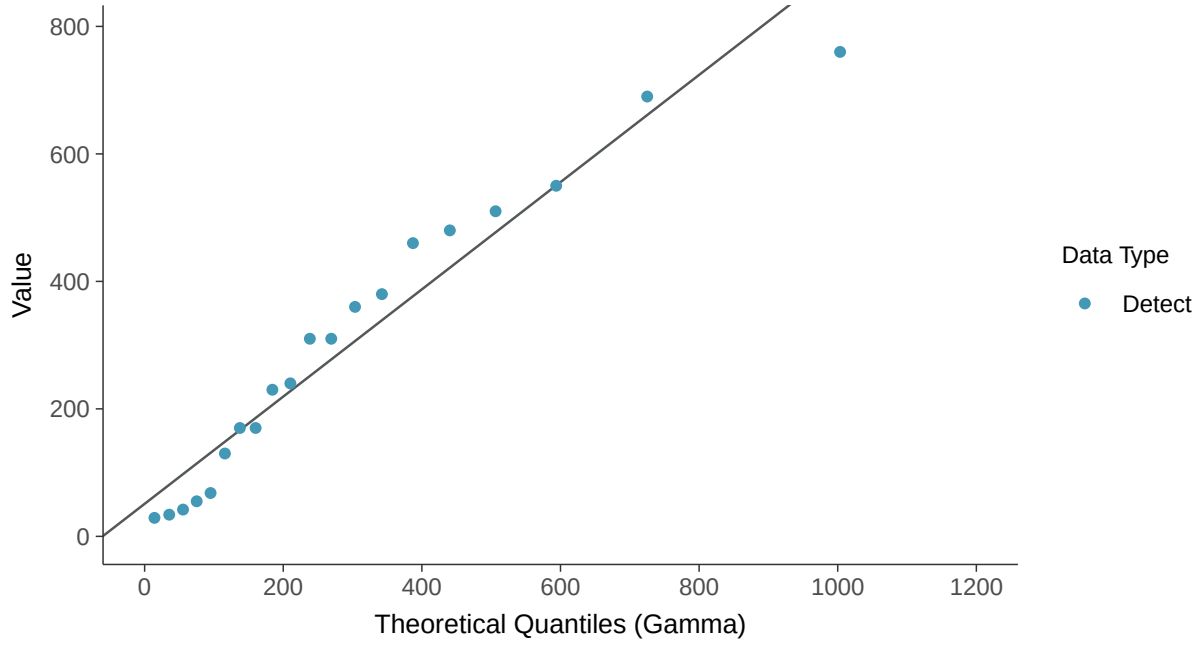
Lognormal Q-Q plot

Sulfate (as SO4), MW-03 (mg/L)



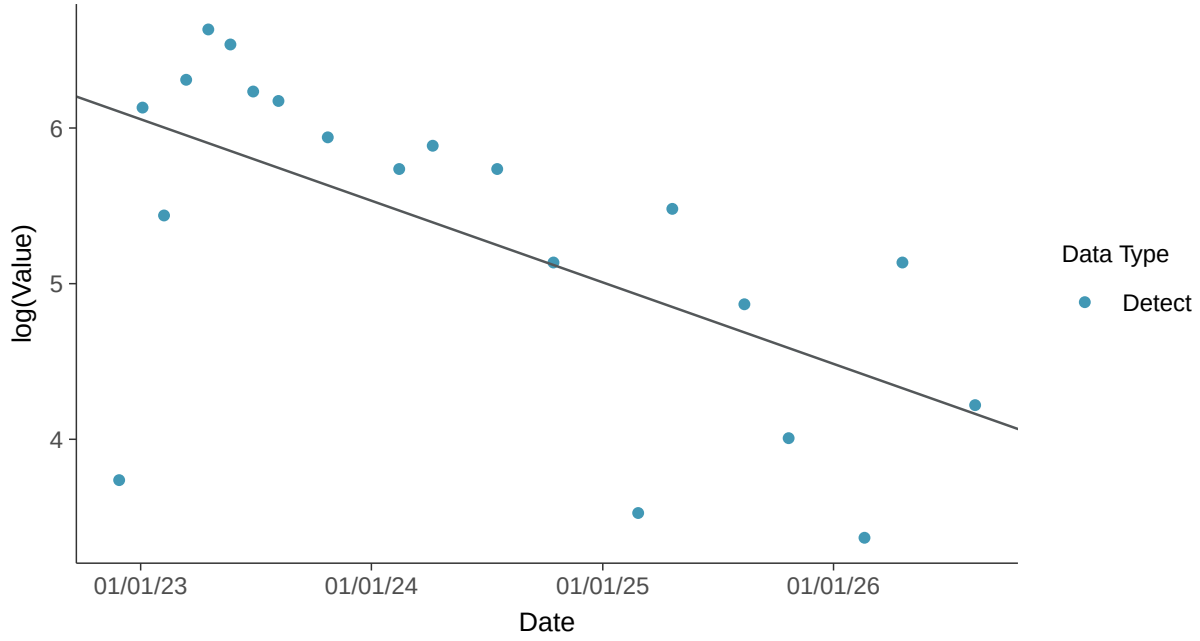
Gamma Q-Q plot

Sulfate (as SO4), MW-03 (mg/L)



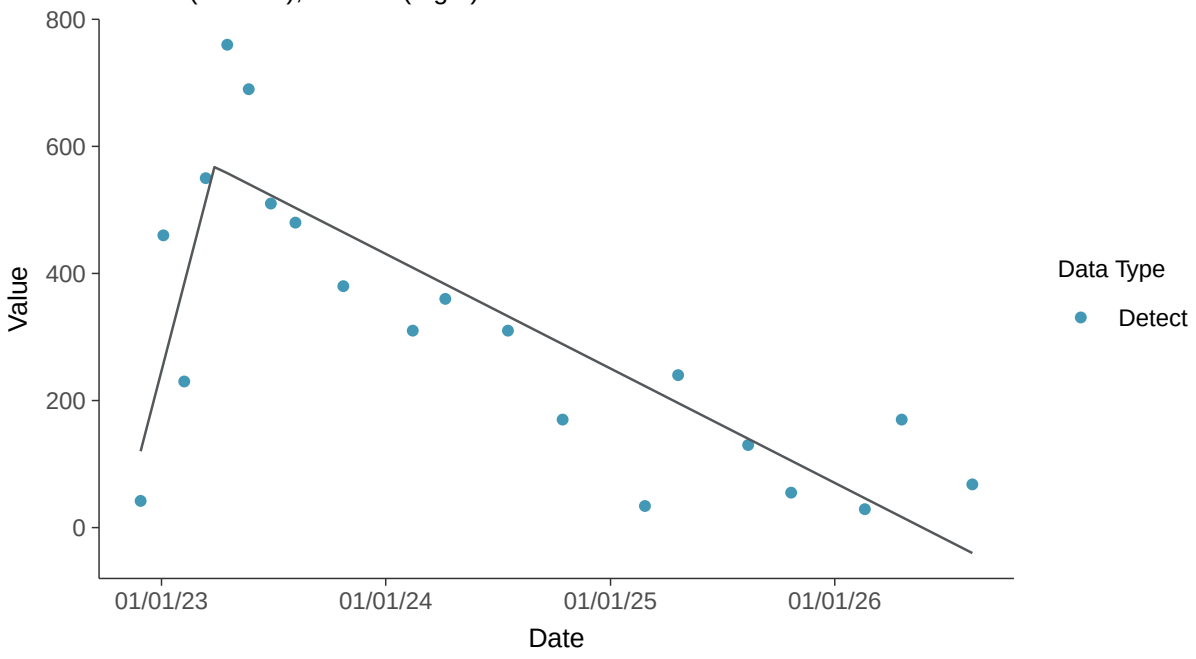
Trend Regression: Lognormal MLE

Sulfate (as SO4), MW-03 (mg/L)



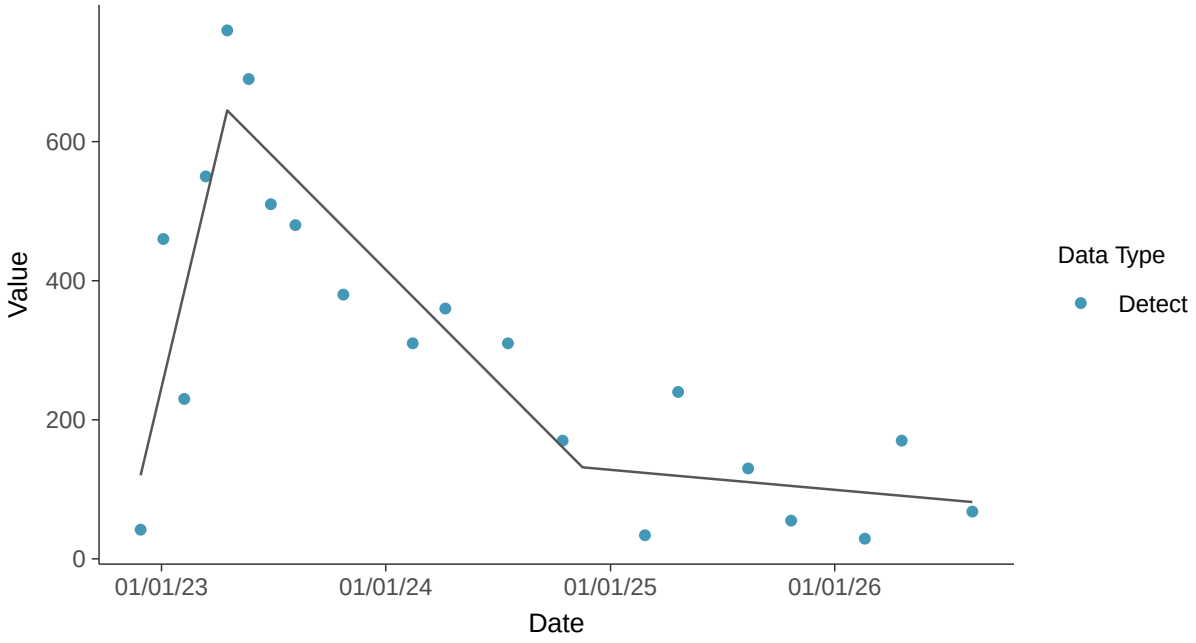
Trend Regression: Piecewise Linear-Linear

Sulfate (as SO4), MW-03 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Sulfate (as SO4), MW-03 (mg/L)

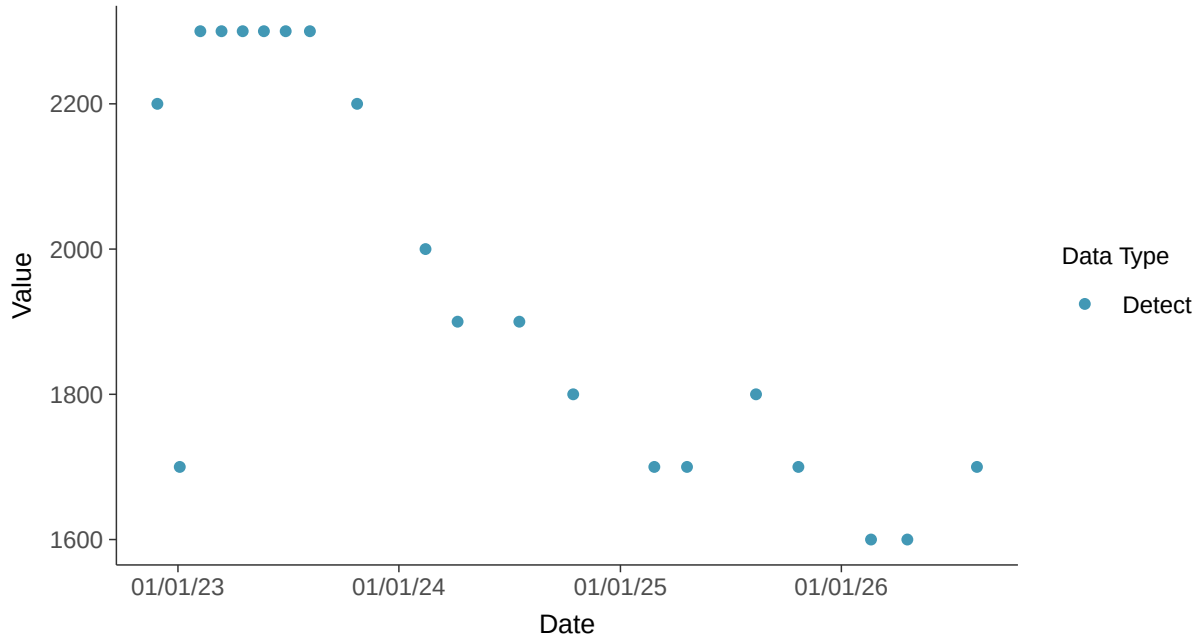


Appendix III: Total Dissolved Solids, MW-03

ID: 13_2_3_126

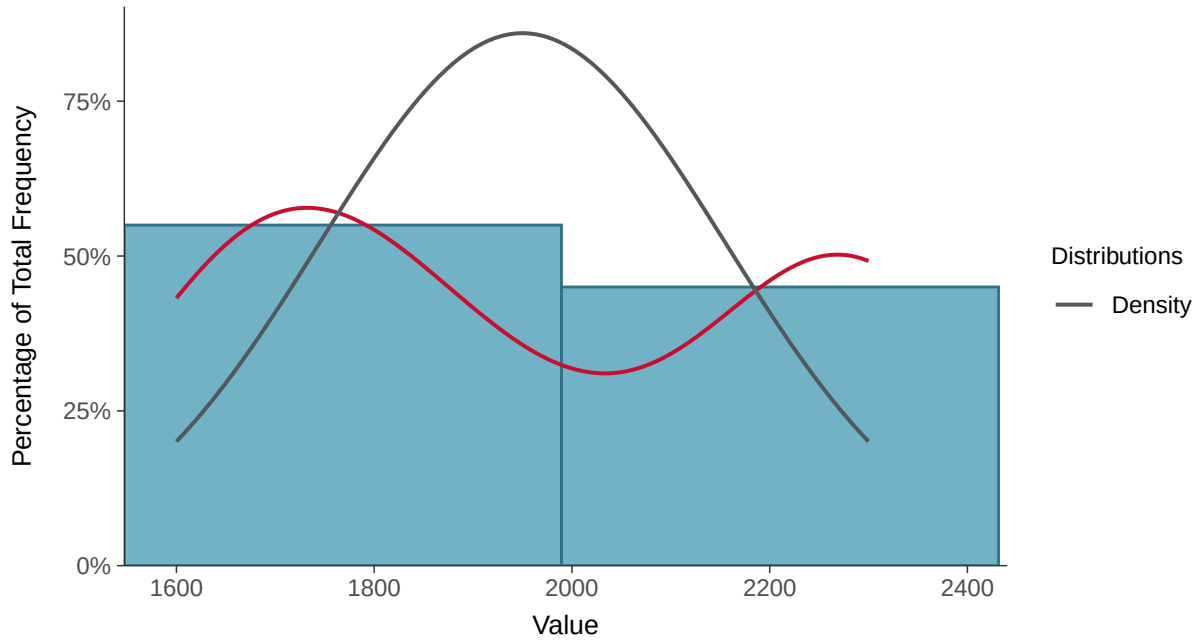
Scatter Plot

Total Dissolved Solids, MW-03 (mg/L)



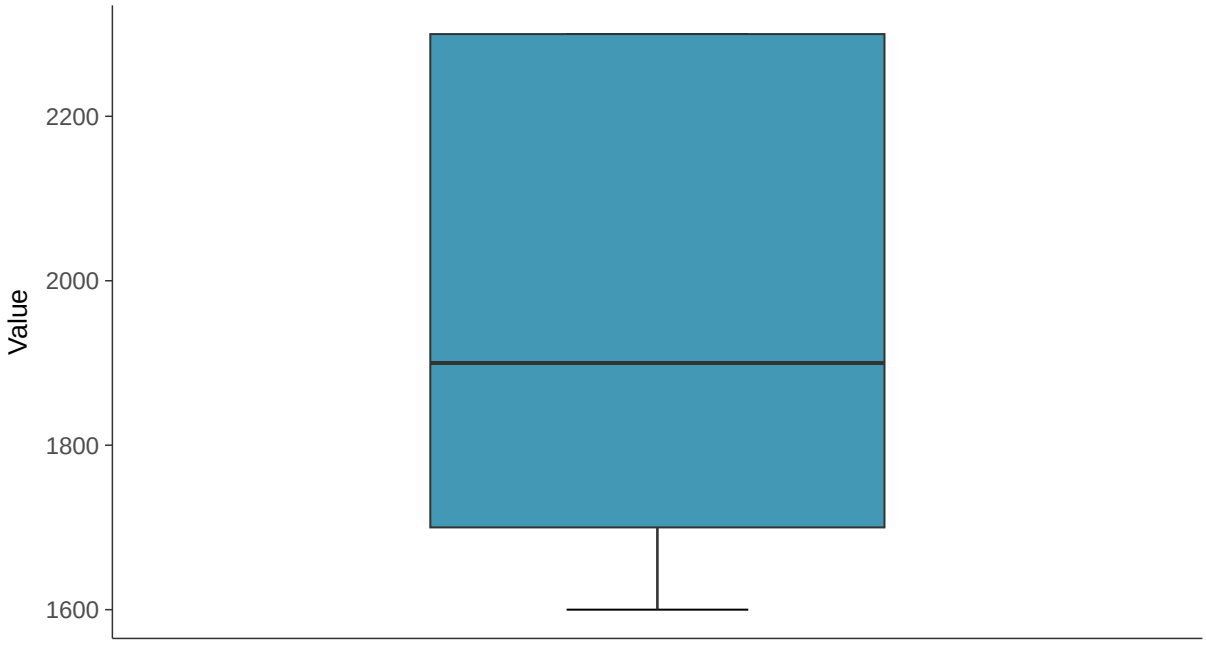
Histogram

Total Dissolved Solids, MW-03 (mg/L)



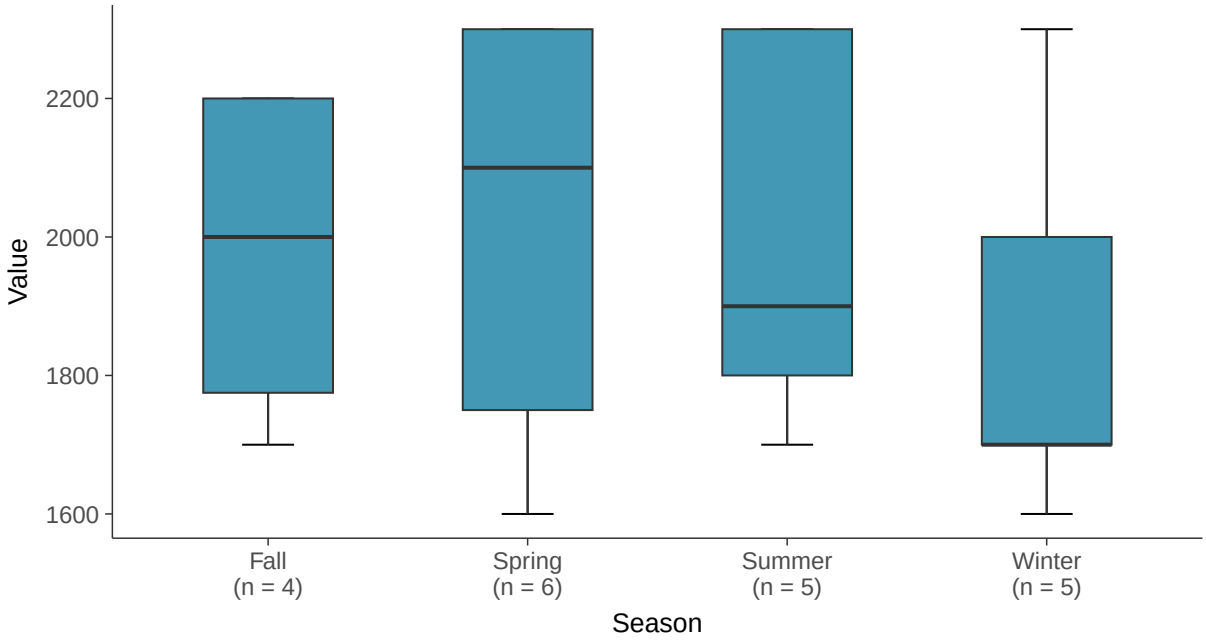
Boxplot

Total Dissolved Solids, MW-03 (mg/L)



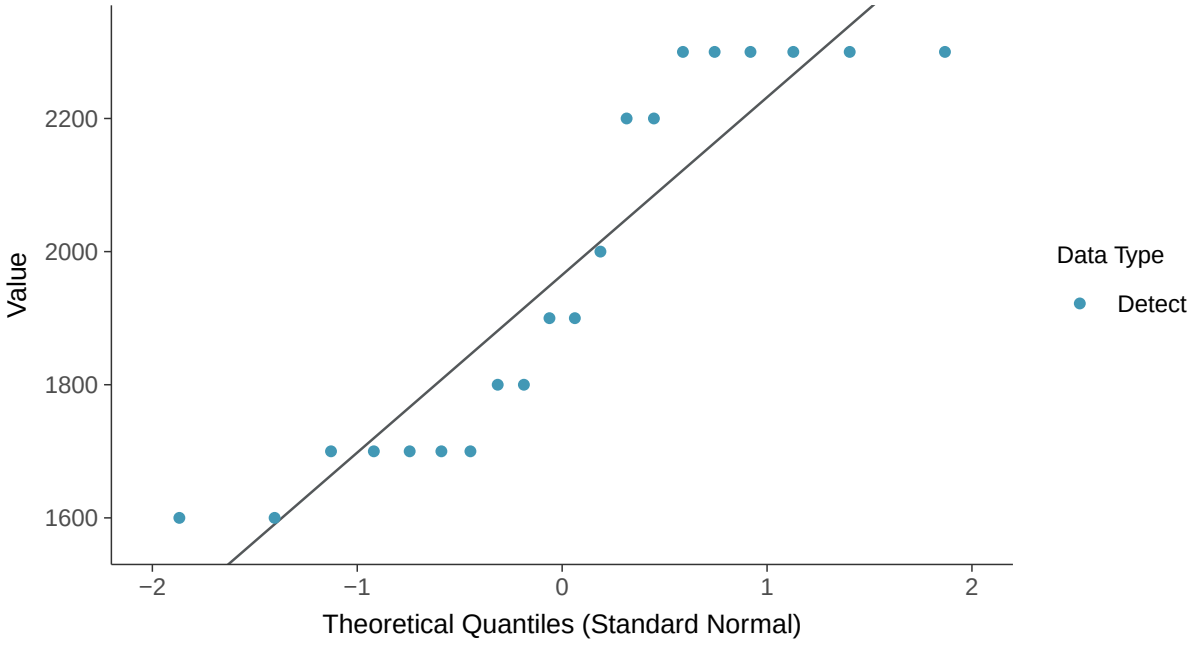
Boxplot by Season

Total Dissolved Solids, MW-03 (mg/L)



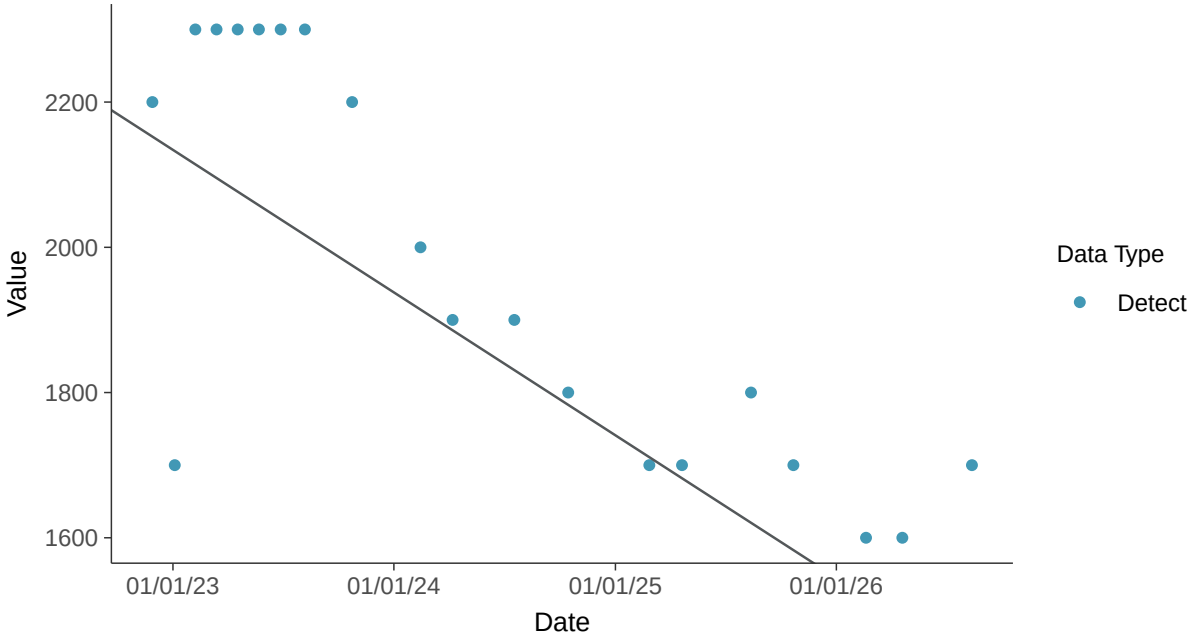
Normal Q-Q plot

Total Dissolved Solids, MW-03 (mg/L)



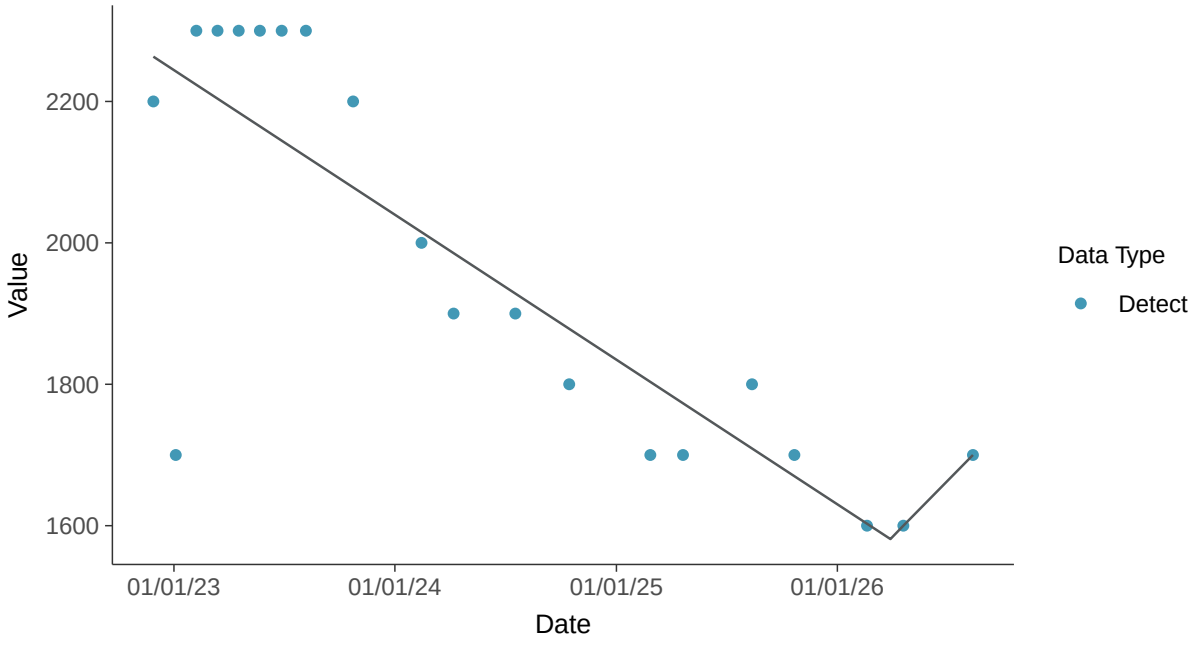
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Total Dissolved Solids, MW-03 (mg/L)



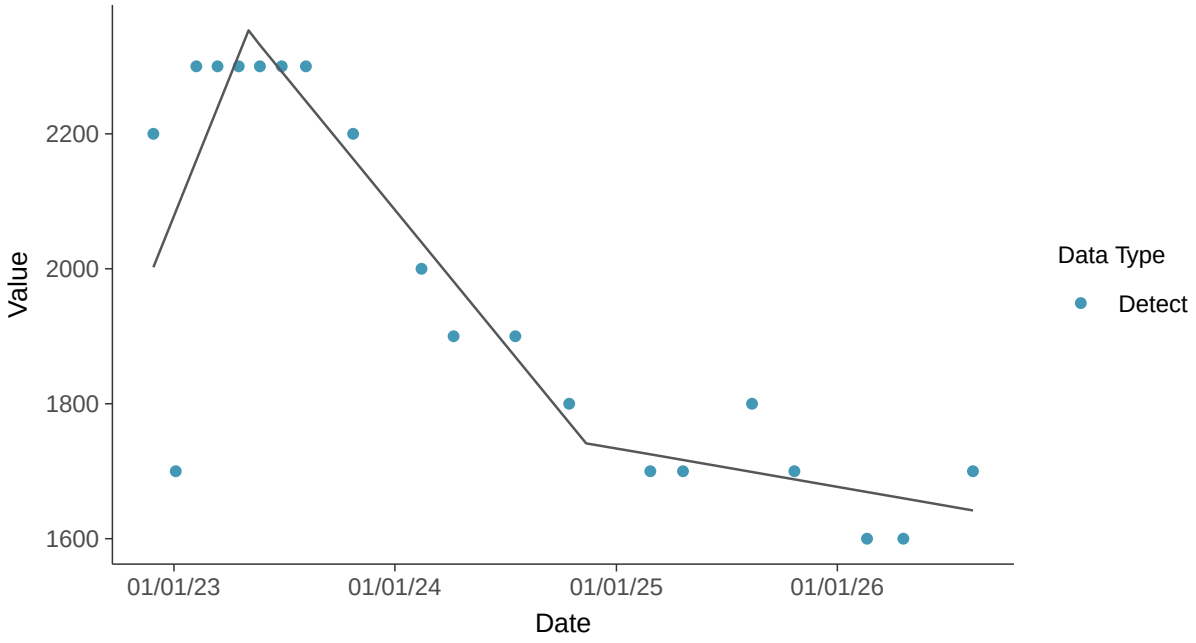
Trend Regression: Piecewise Linear-Linear

Total Dissolved Solids, MW-03 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Total Dissolved Solids, MW-03 (mg/L)

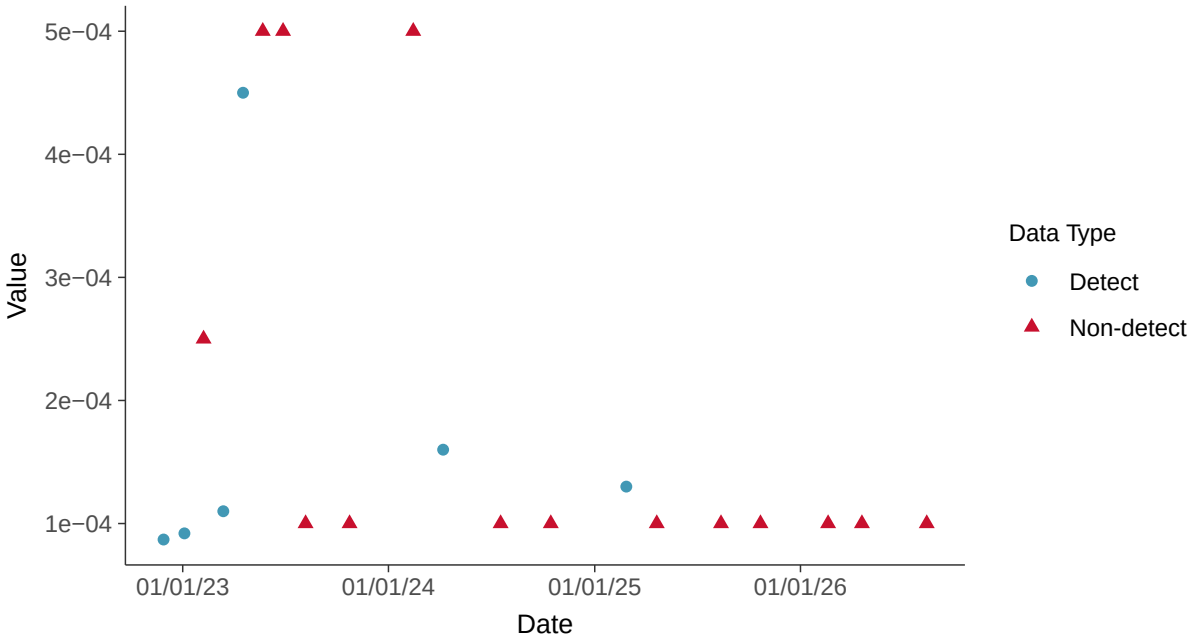


Appendix IV: Antimony, MW-03

ID: 13_2_4_101

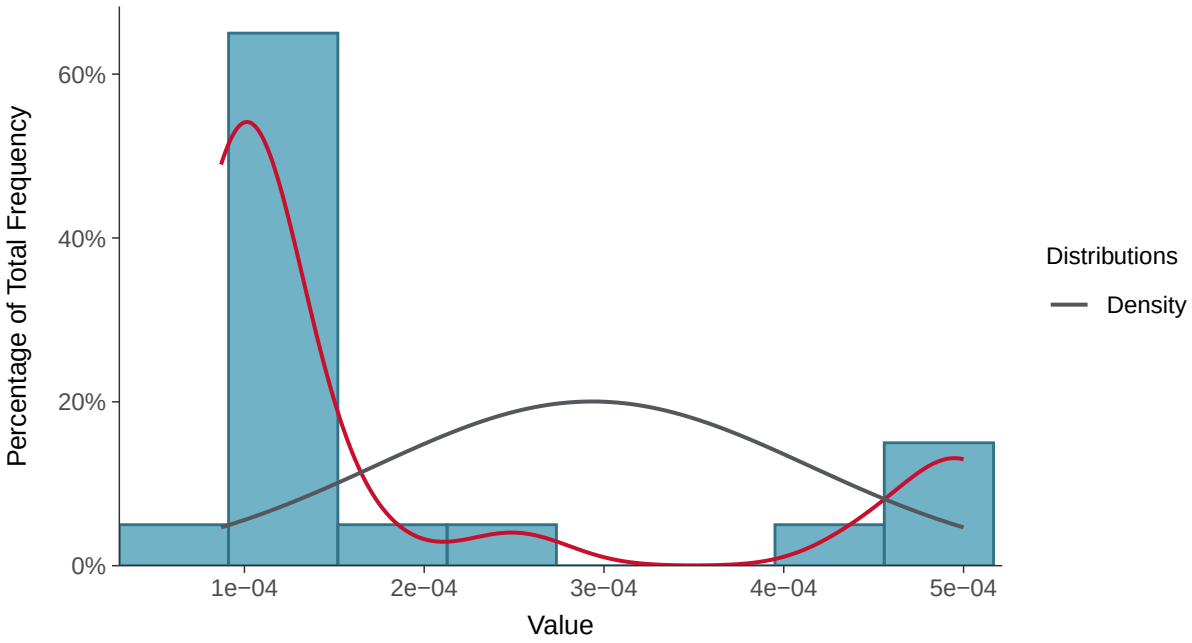
Scatter Plot

Antimony, MW-03 (mg/L)



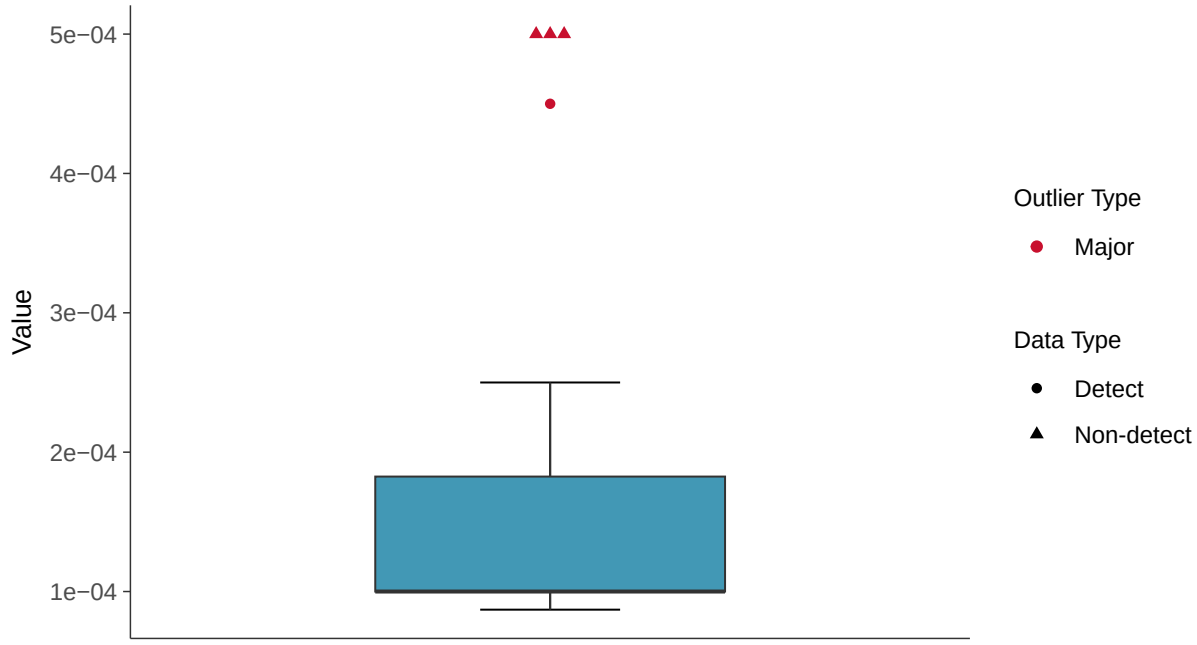
Histogram

Antimony, MW-03 (mg/L)



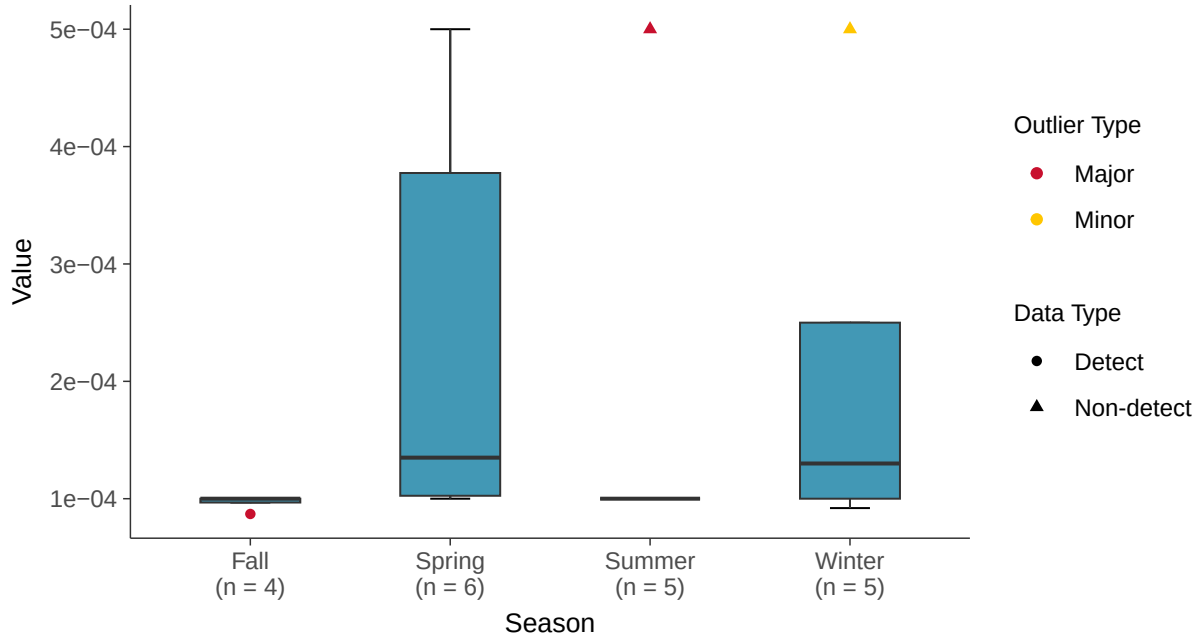
Boxplot

Antimony, MW-03 (mg/L)



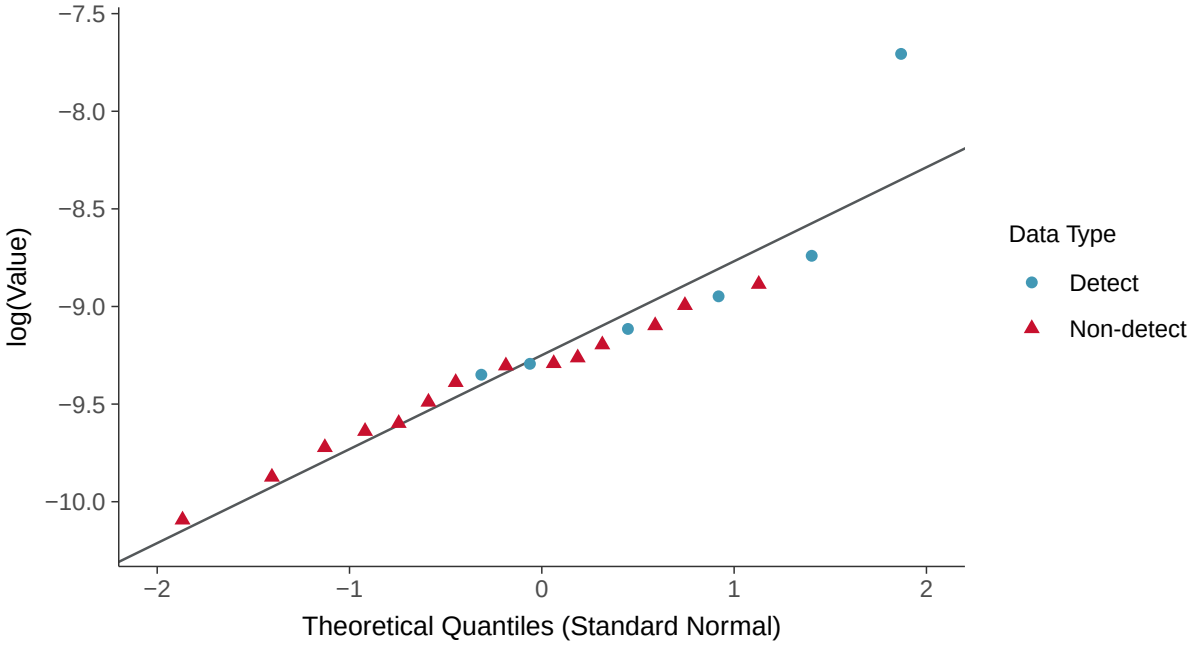
Boxplot by Season

Antimony, MW-03 (mg/L)



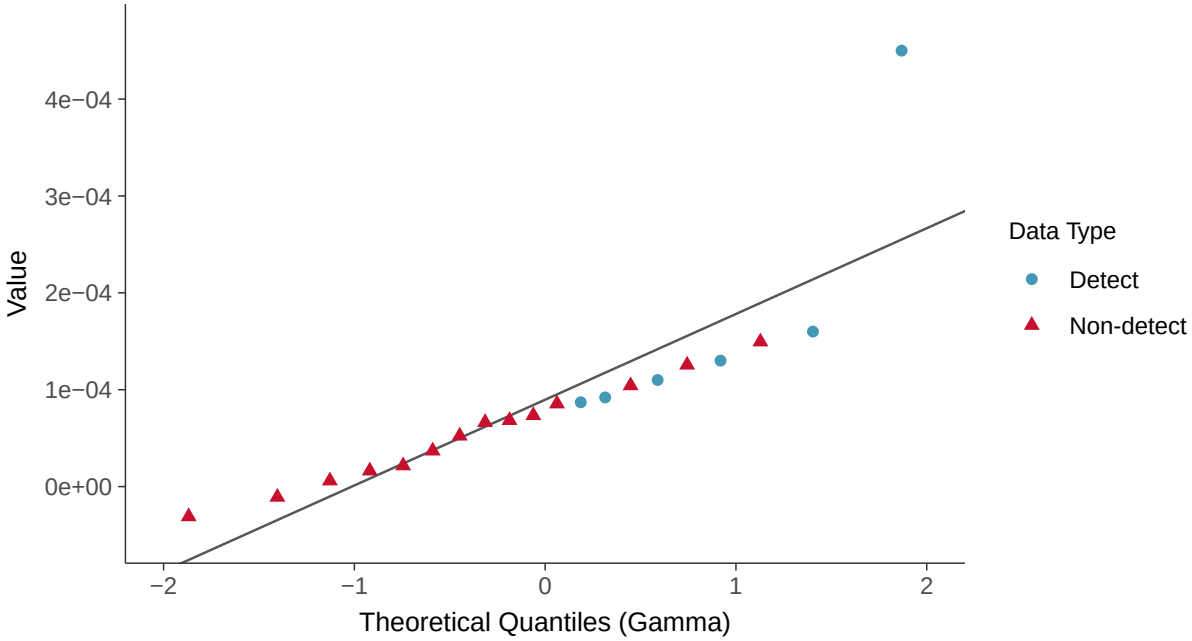
Lognormal Q-Q plot using ROS Imputed Estimates

Antimony, MW-03 (mg/L)



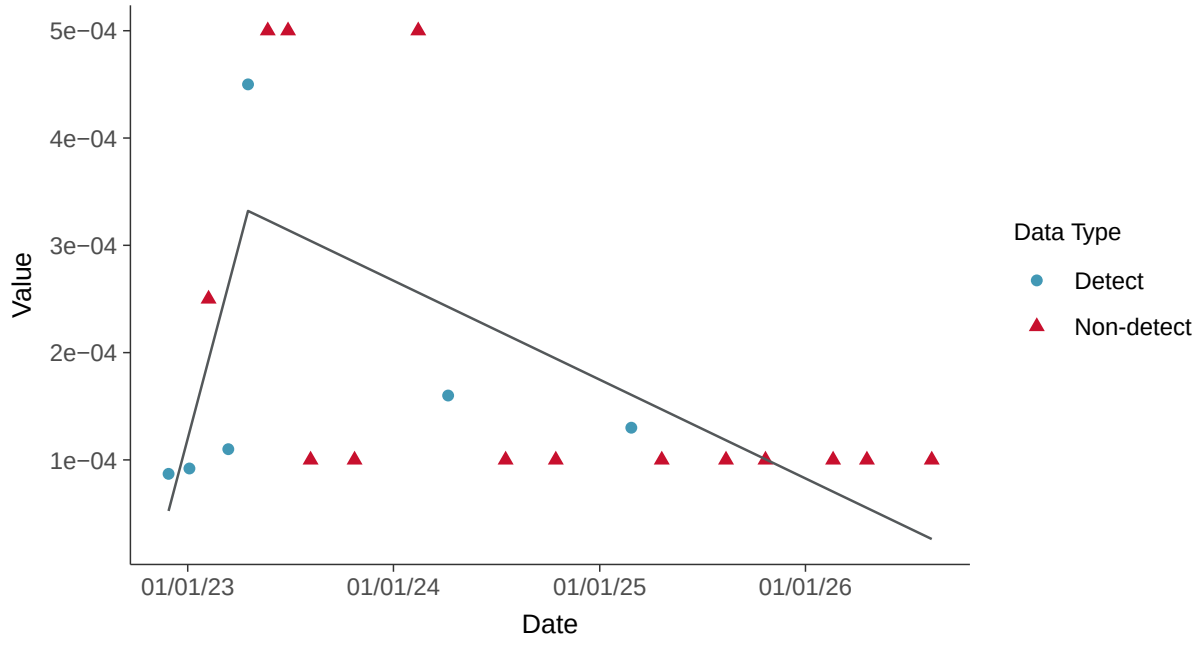
Gamma Q-Q plot using ROS Imputed Estimates

Antimony, MW-03 (mg/L)



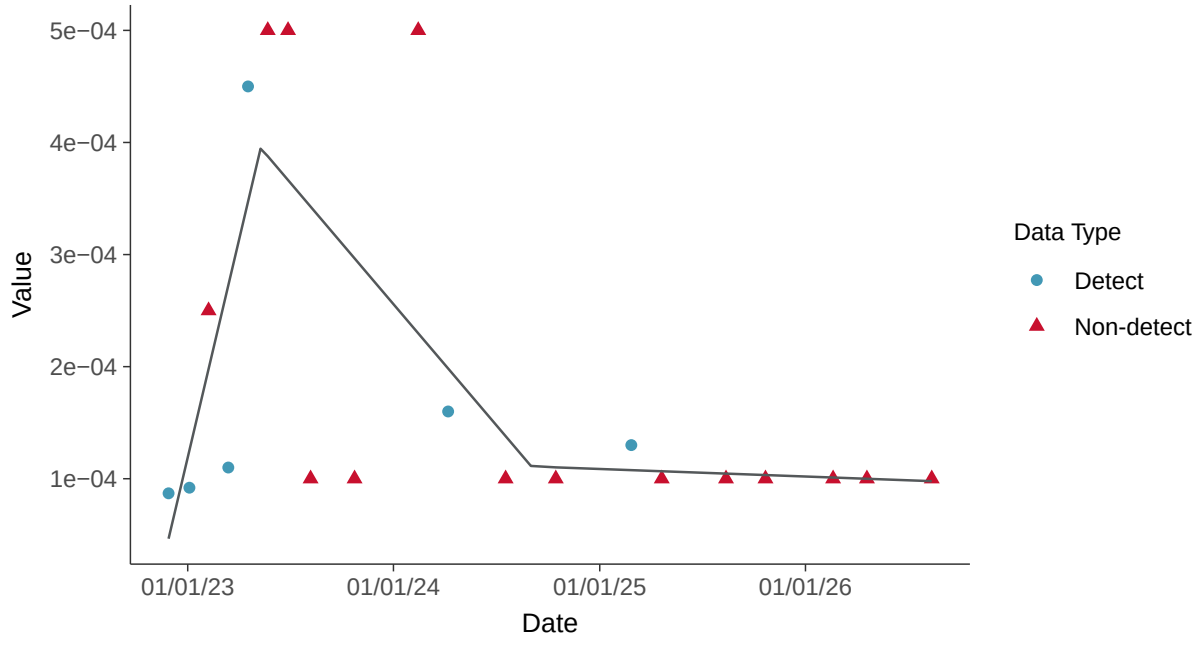
Trend Regression: Piecewise Linear-Linear

Antimony, MW-03 (mg/L)



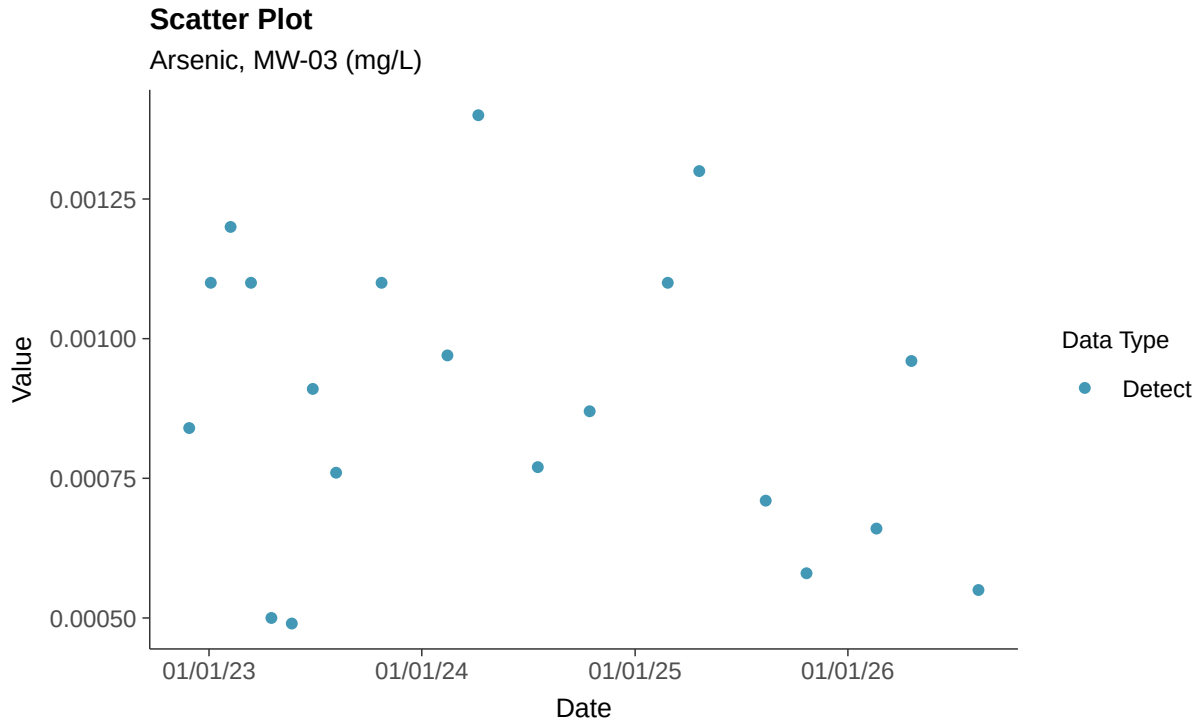
Trend Regression: Piecewise Linear-Linear-Linear

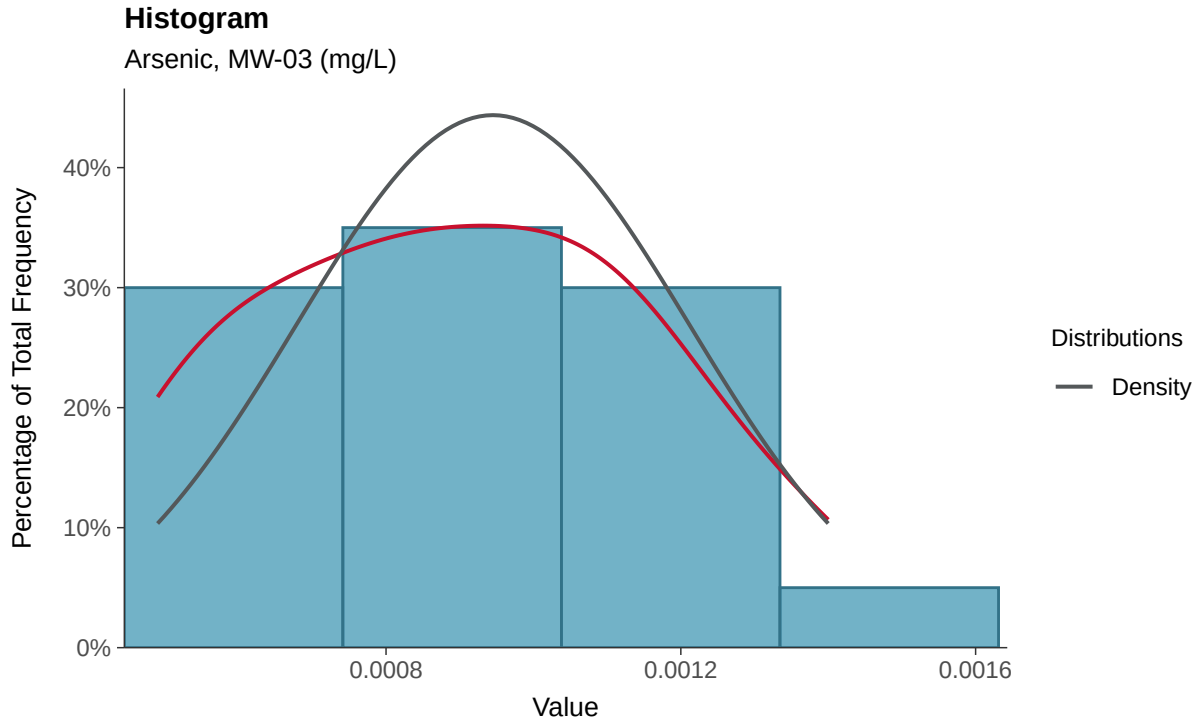
Antimony, MW-03 (mg/L)



Appendix IV: Arsenic, MW-03

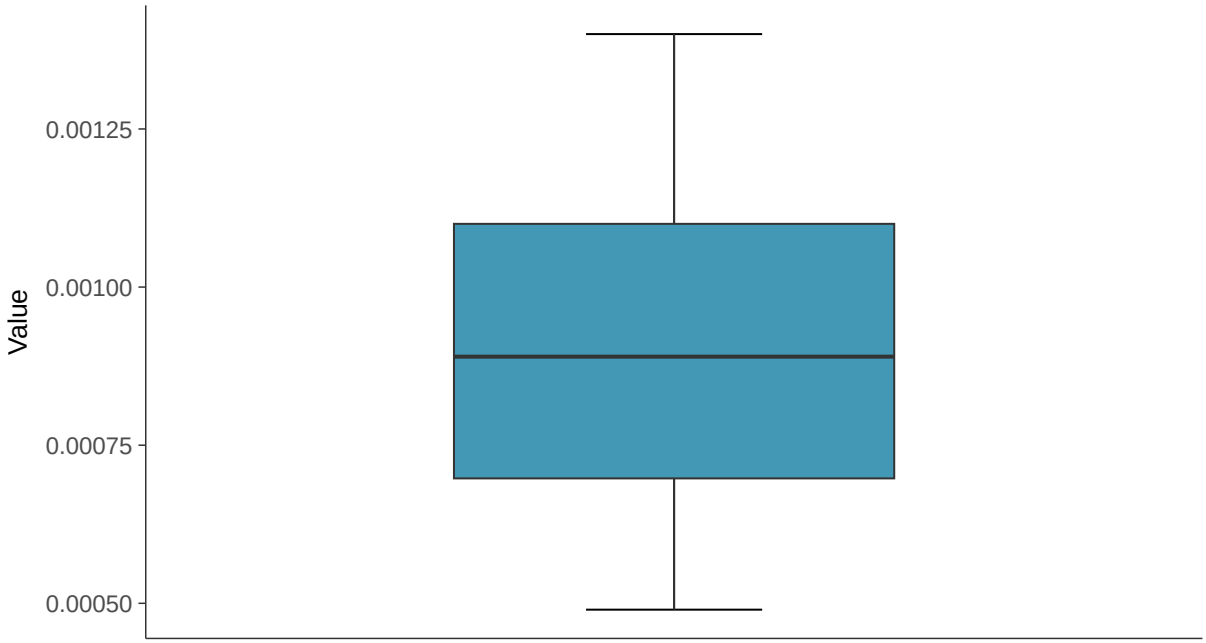
ID: 13_2_4_102





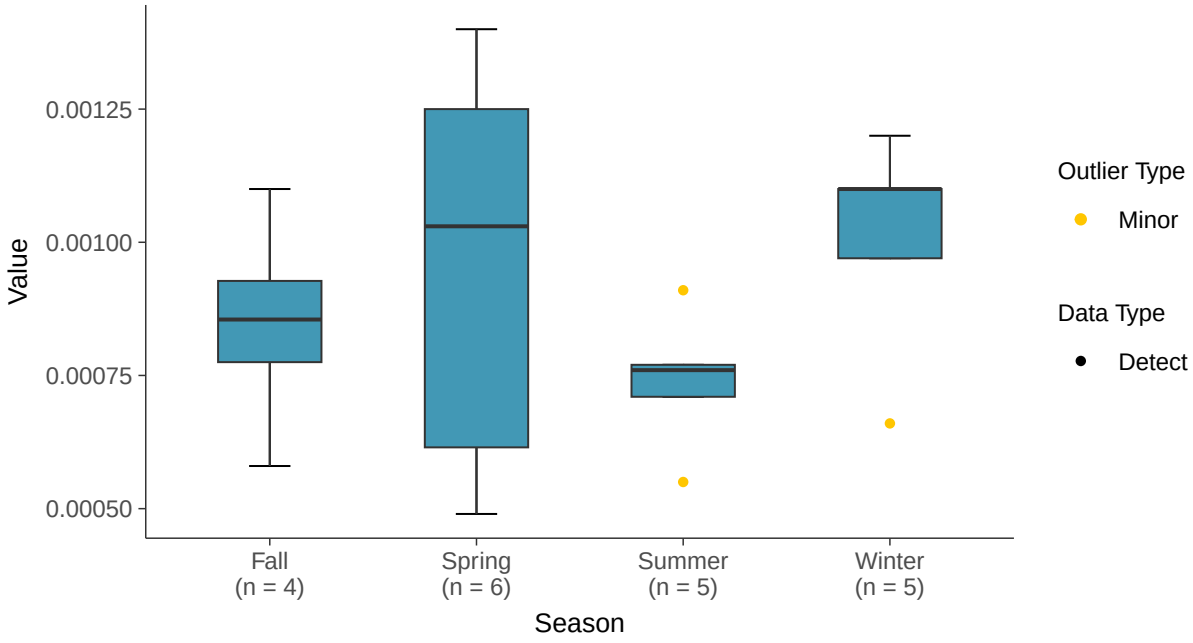
Boxplot

Arsenic, MW-03 (mg/L)



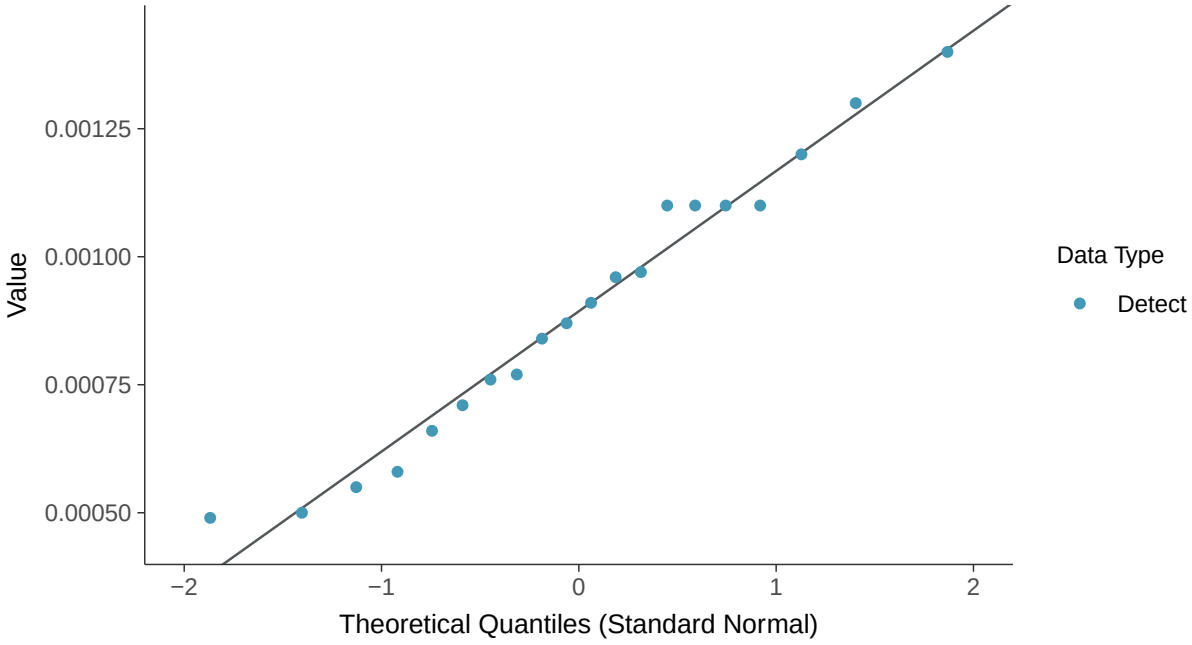
Boxplot by Season

Arsenic, MW-03 (mg/L)



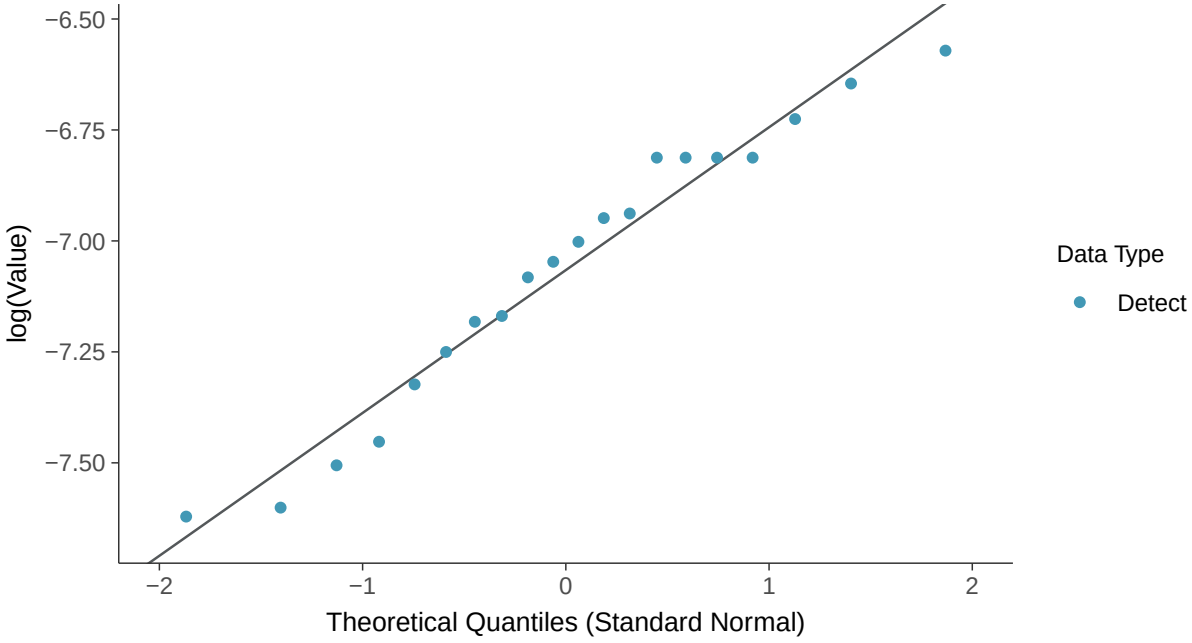
Normal Q-Q plot

Arsenic, MW-03 (mg/L)



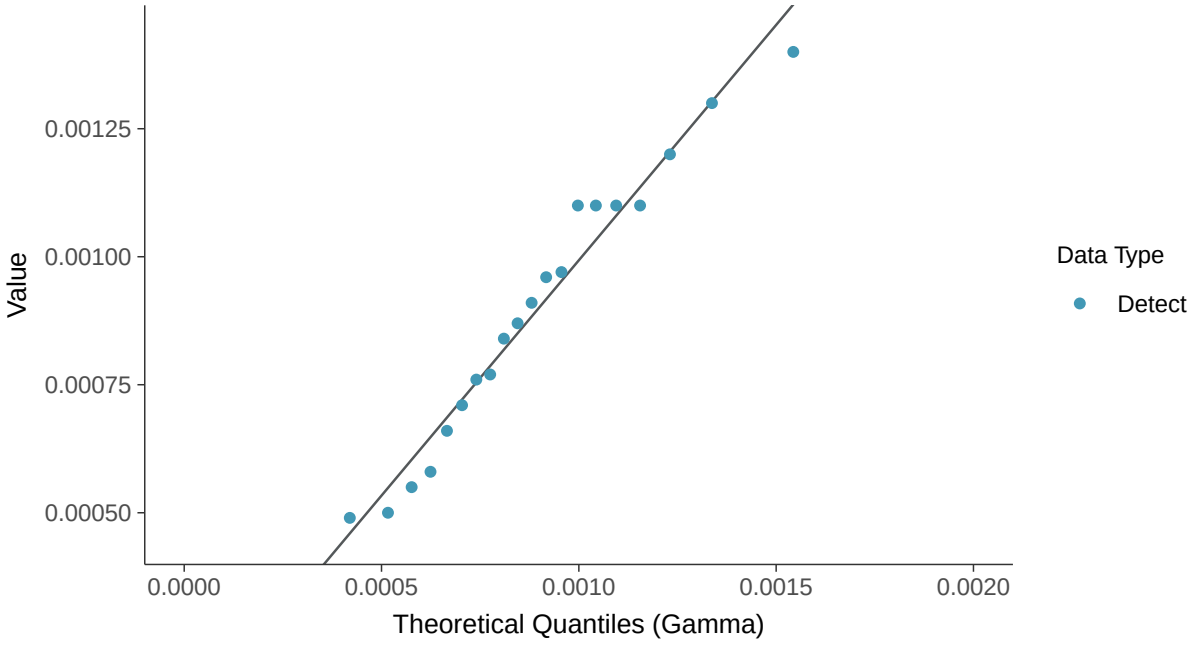
Lognormal Q-Q plot

Arsenic, MW-03 (mg/L)



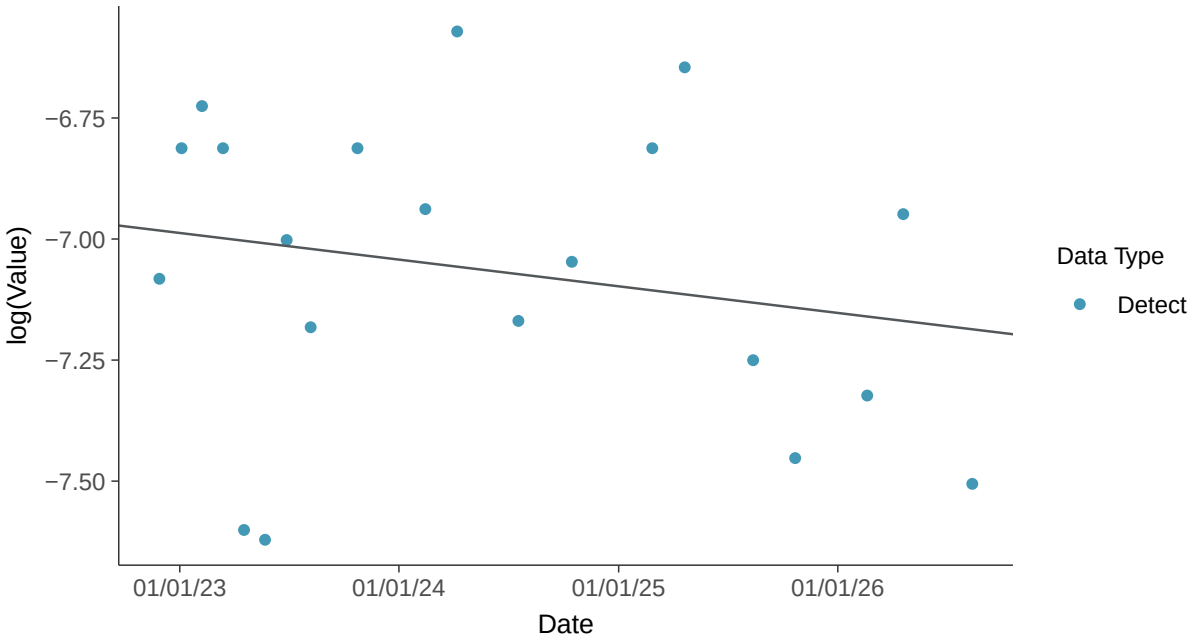
Gamma Q-Q plot

Arsenic, MW-03 (mg/L)



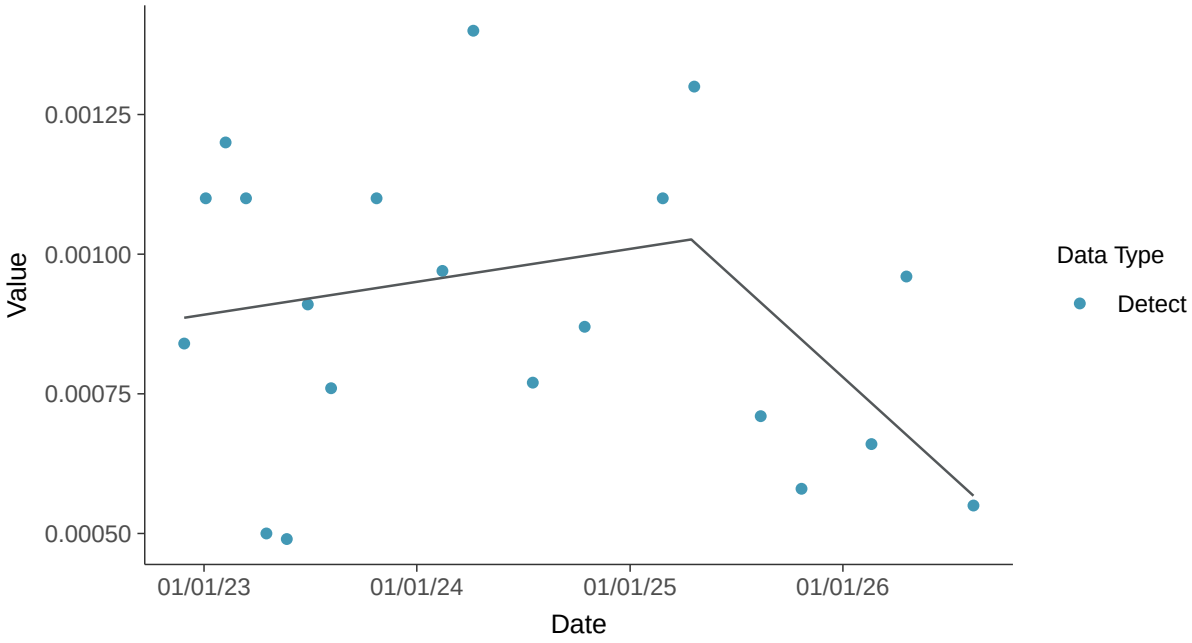
Trend Regression: Lognormal MLE

Arsenic, MW-03 (mg/L)



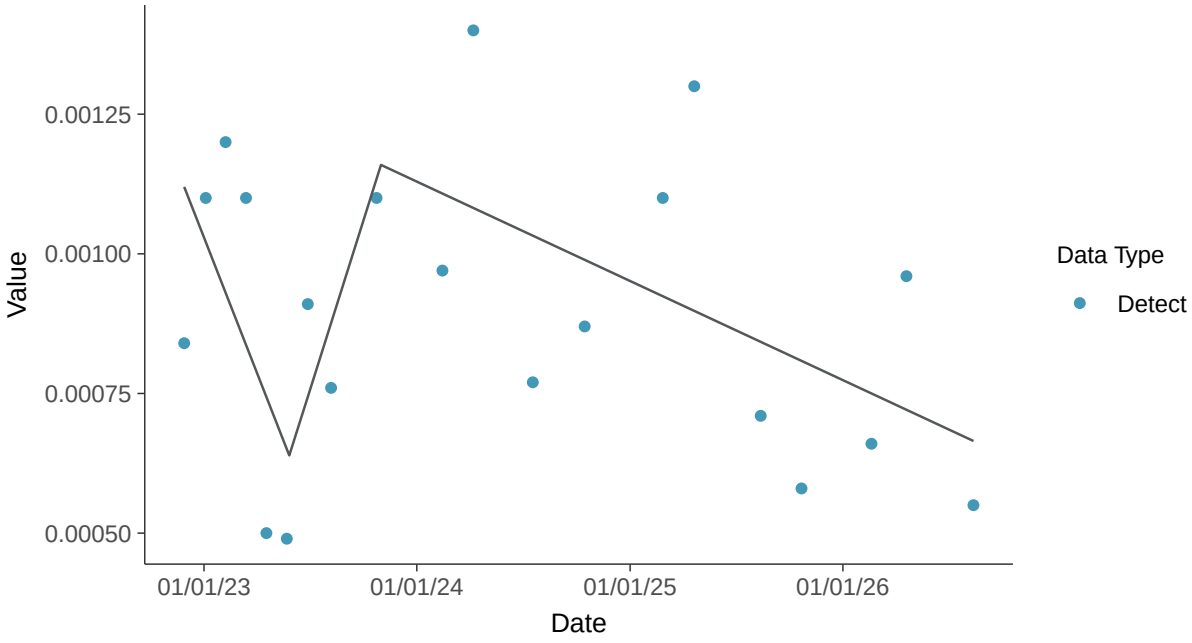
Trend Regression: Piecewise Linear-Linear

Arsenic, MW-03 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Arsenic, MW-03 (mg/L)

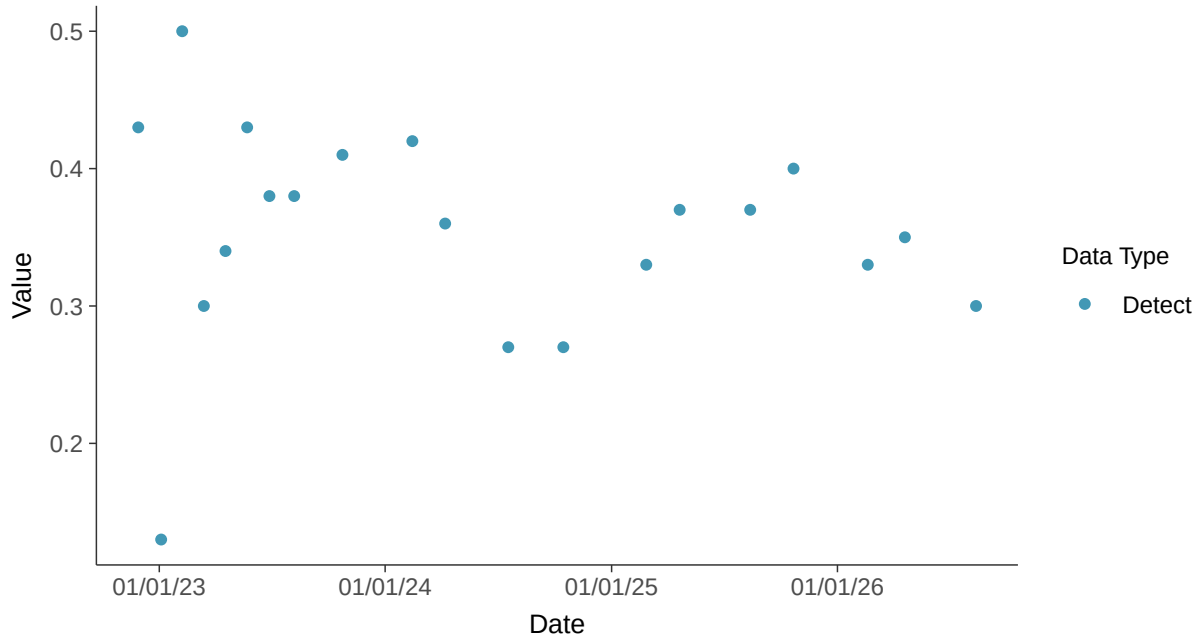


Appendix IV: Barium, MW-03

ID: 13_2_4_103

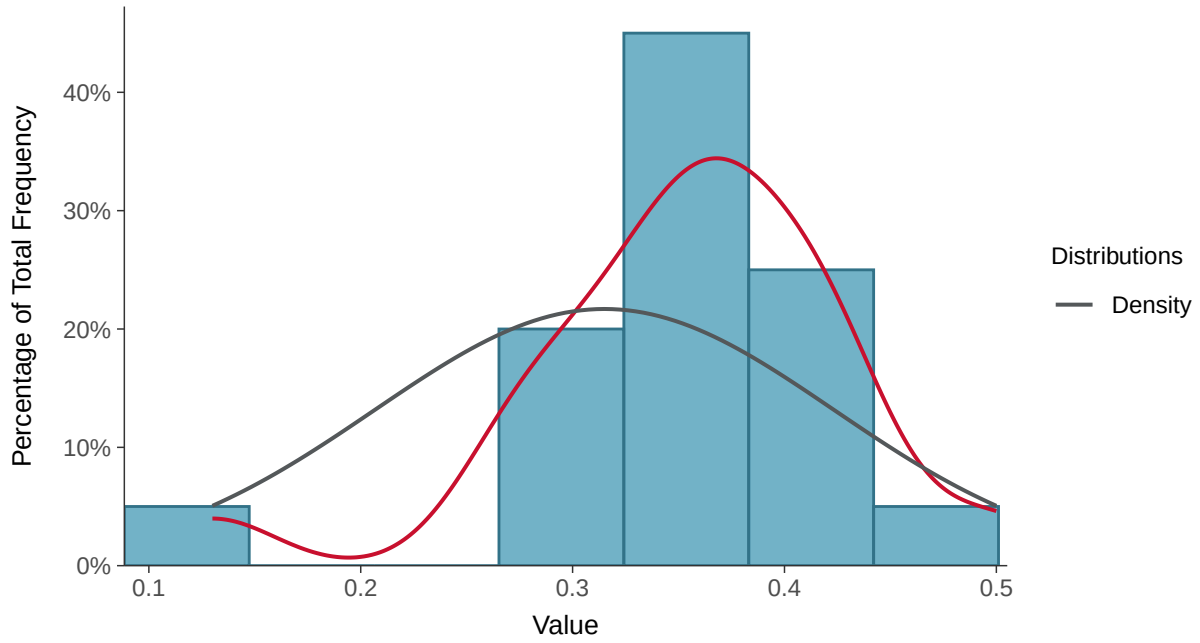
Scatter Plot

Barium, MW-03 (mg/L)



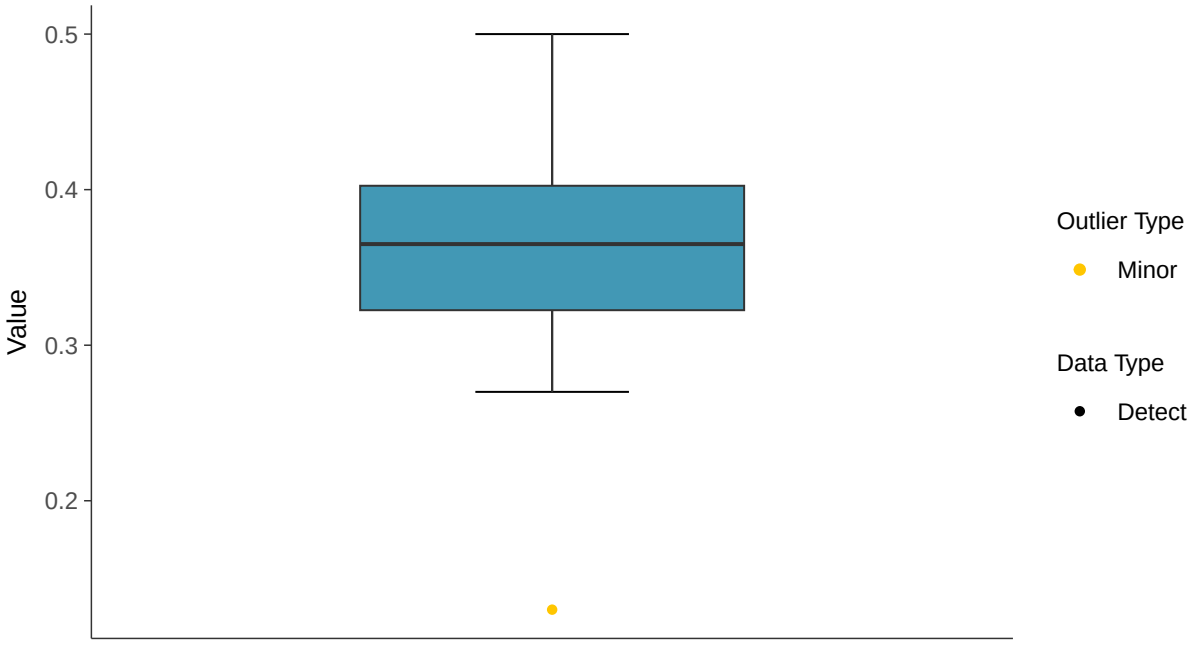
Histogram

Barium, MW-03 (mg/L)



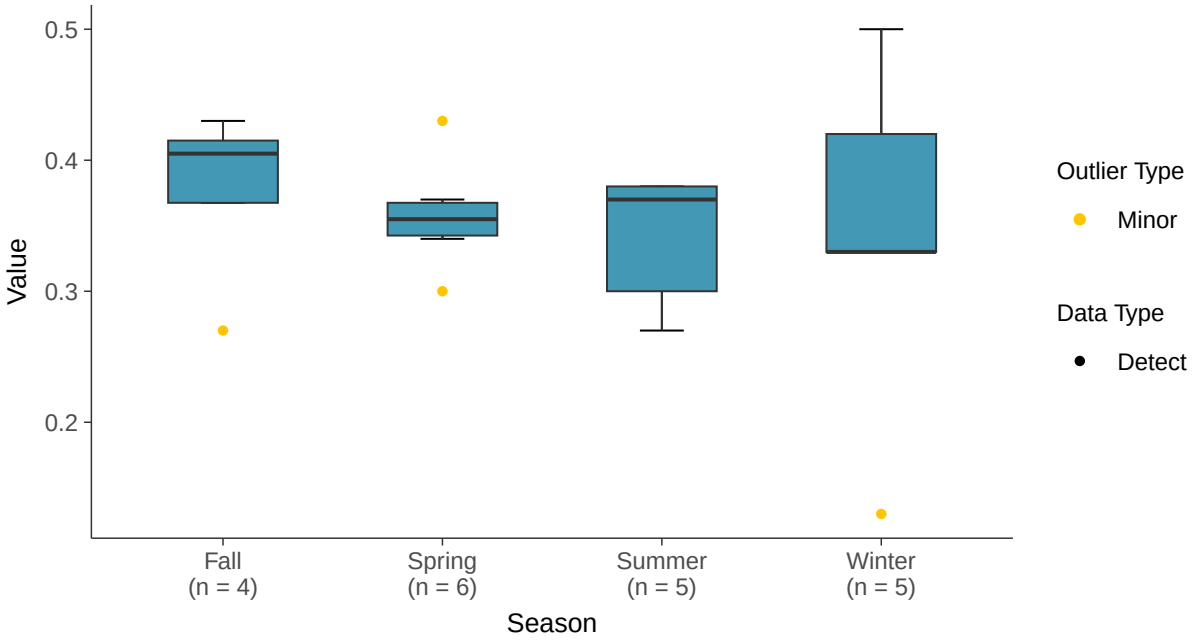
Boxplot

Barium, MW-03 (mg/L)



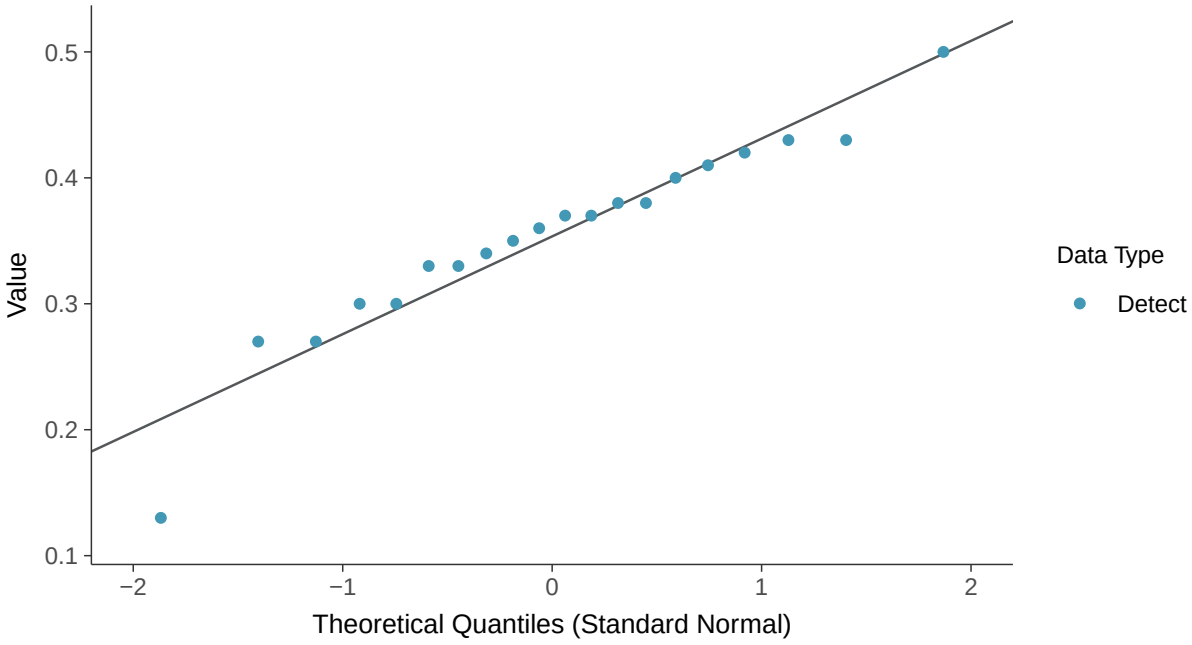
Boxplot by Season

Barium, MW-03 (mg/L)



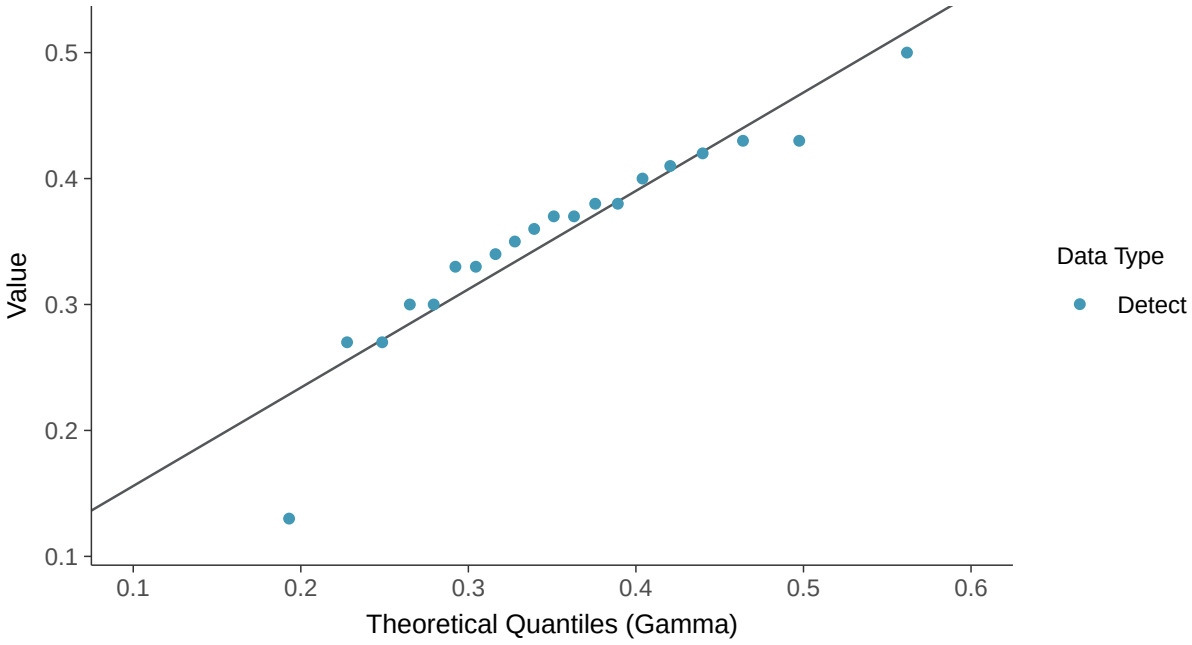
Normal Q-Q plot

Barium, MW-03 (mg/L)



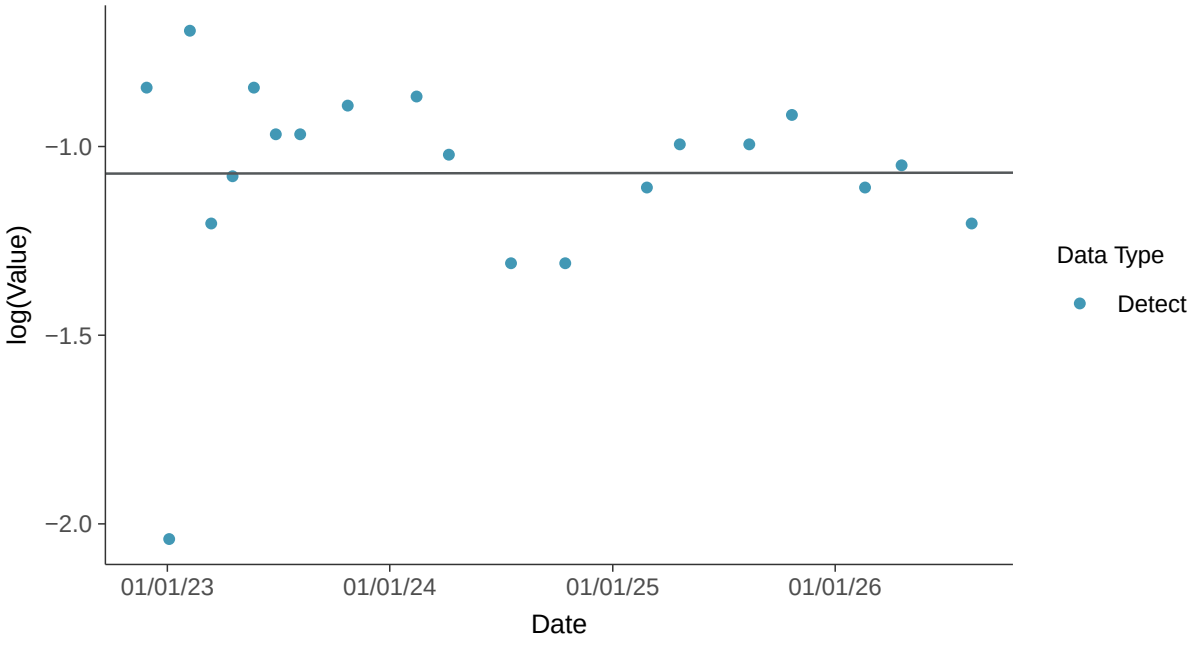
Gamma Q-Q plot

Barium, MW-03 (mg/L)



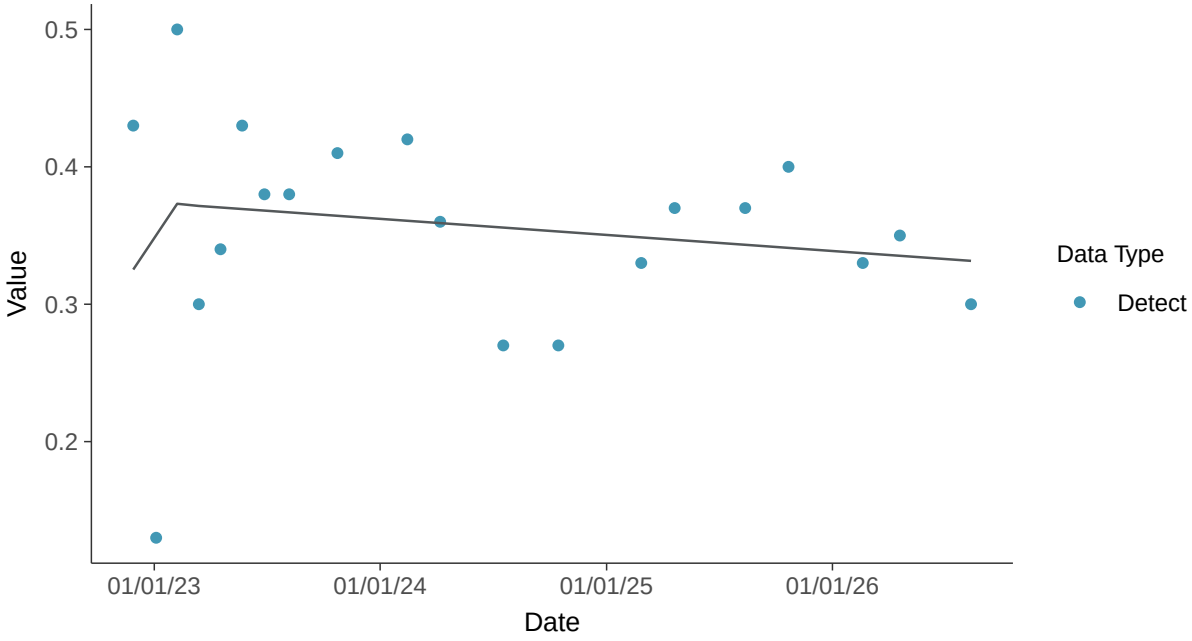
Trend Regression: Lognormal MLE

Barium, MW-03 (mg/L)



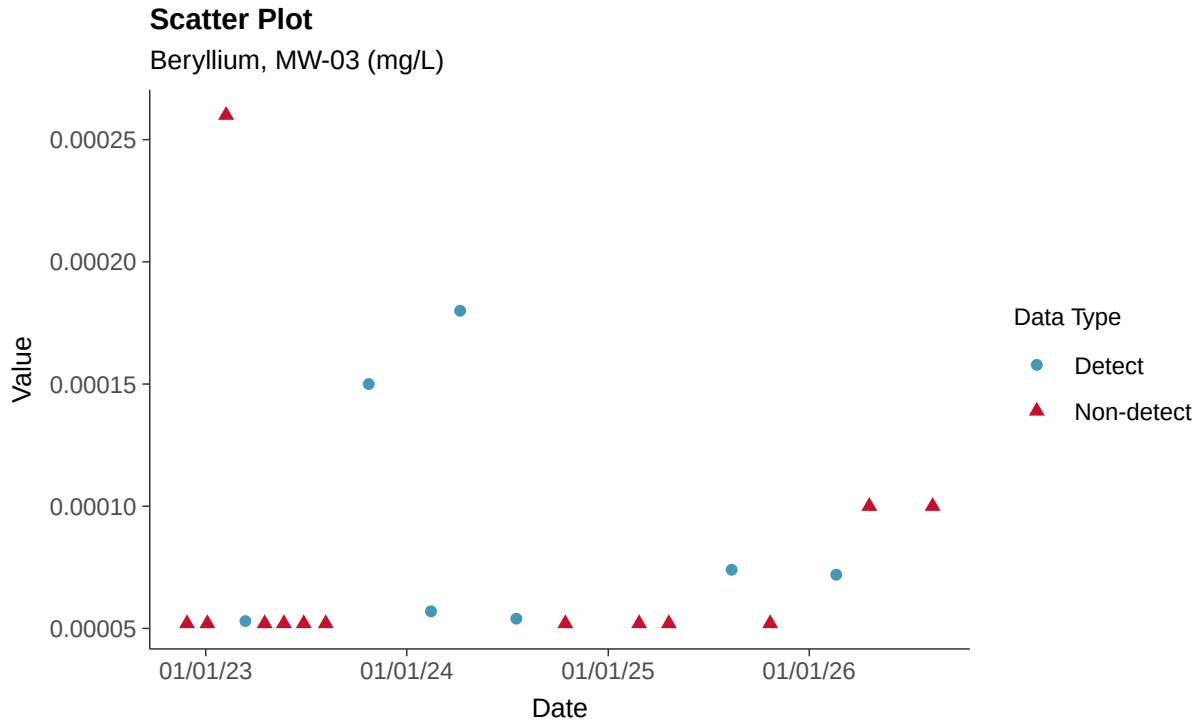
Trend Regression: Piecewise Linear-Linear

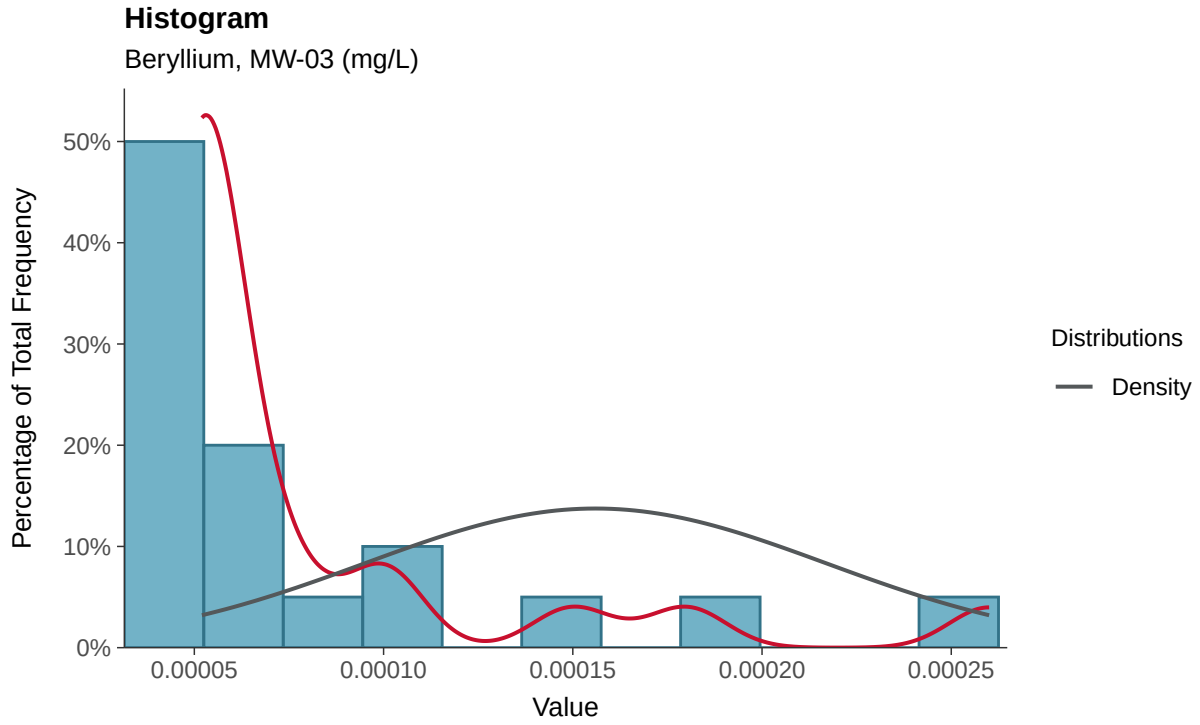
Barium, MW-03 (mg/L)



Appendix IV: Beryllium, MW-03

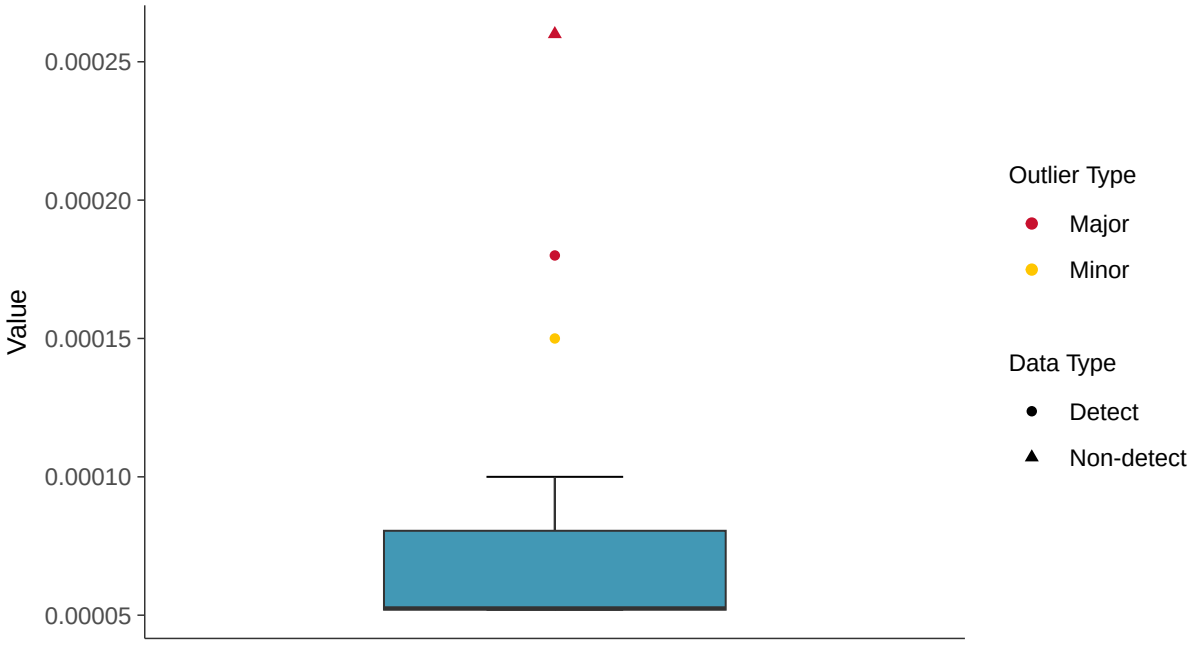
ID: 13_2_4_104





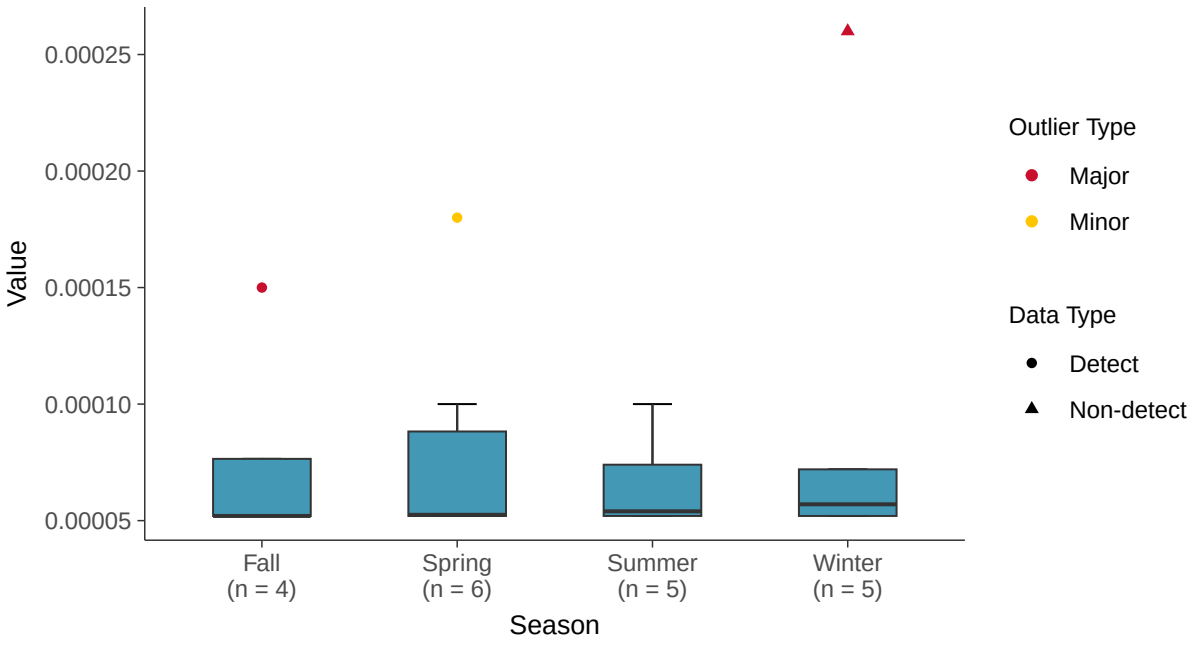
Boxplot

Beryllium, MW-03 (mg/L)



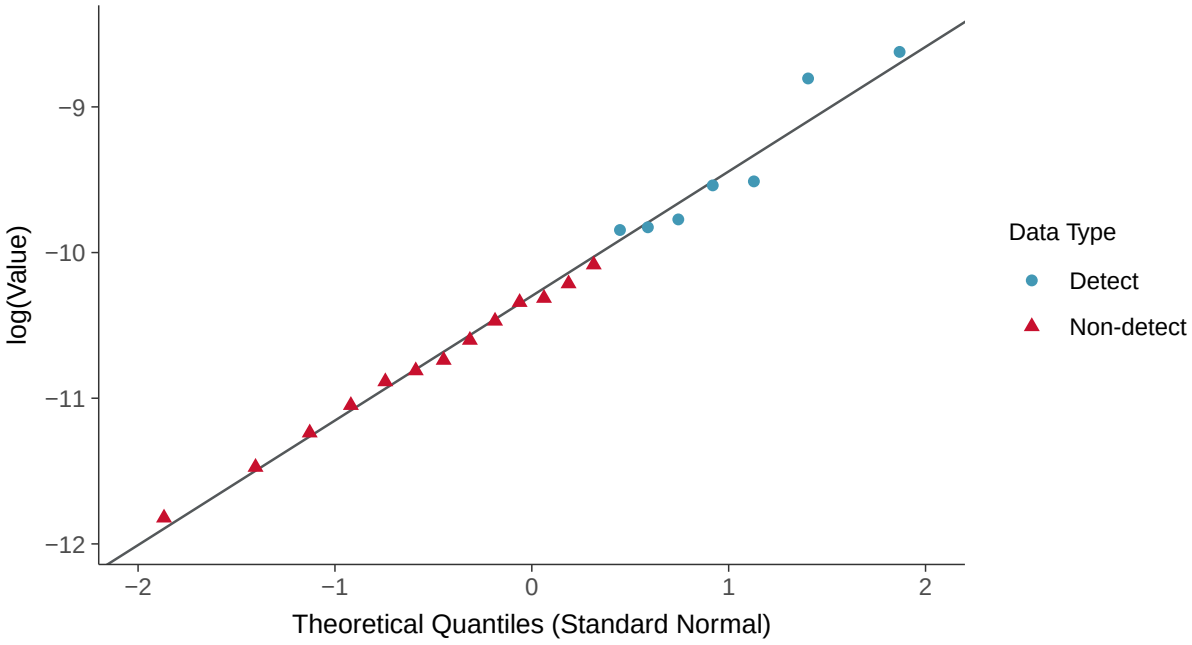
Boxplot by Season

Beryllium, MW-03 (mg/L)



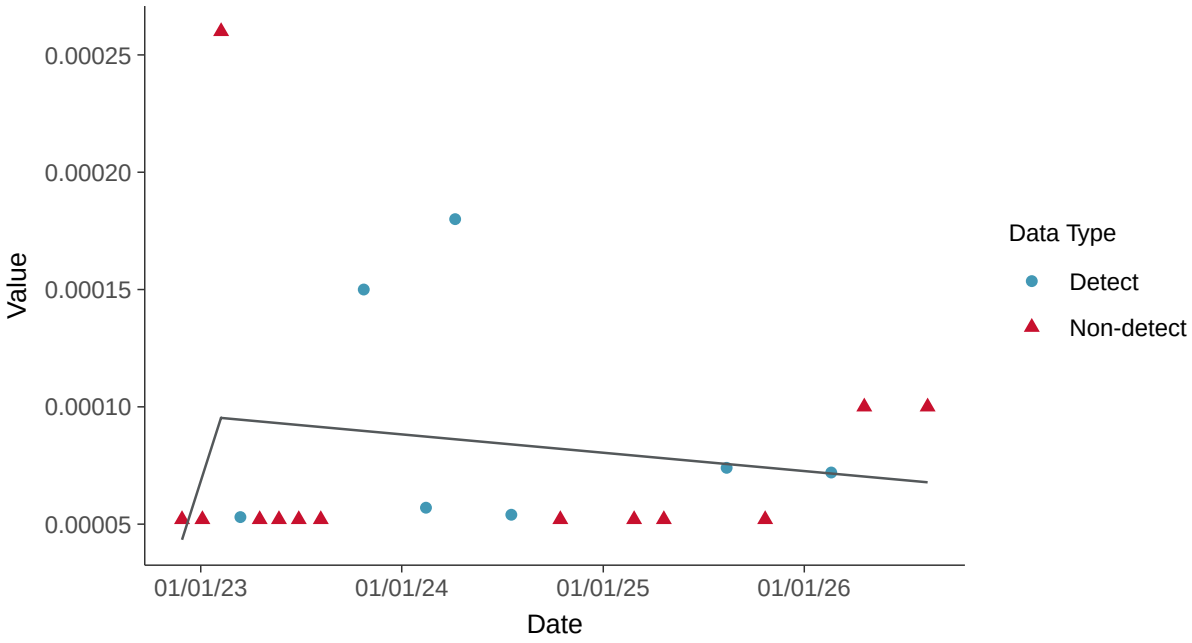
Lognormal Q-Q plot using ROS Imputed Estimates

Beryllium, MW-03 (mg/L)



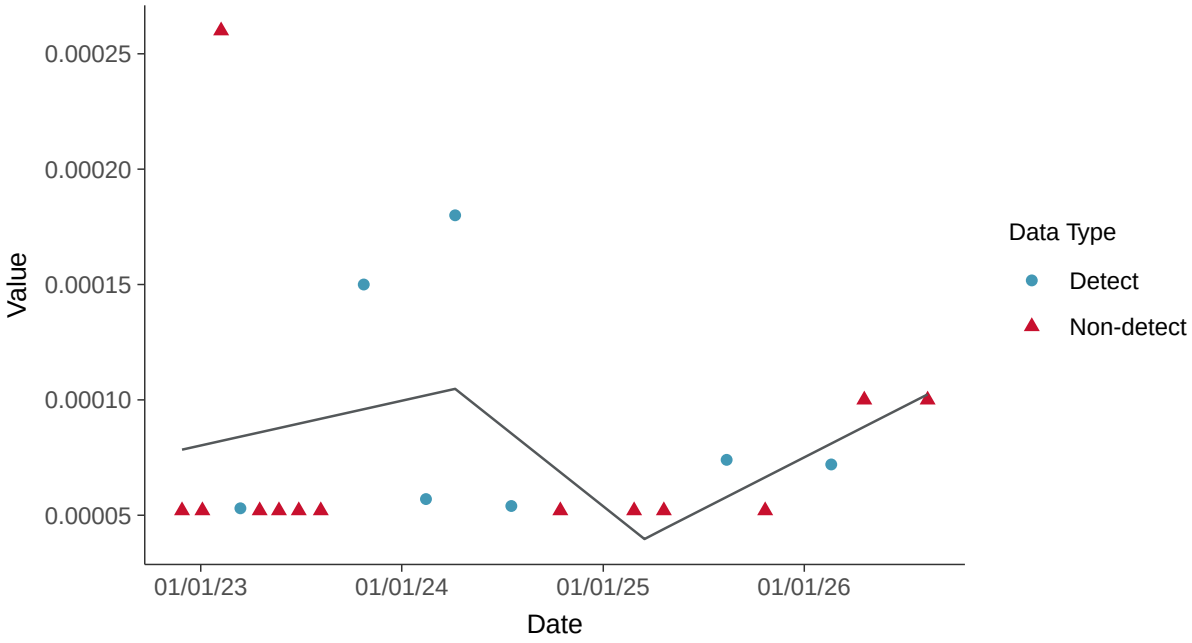
Trend Regression: Piecewise Linear-Linear

Beryllium, MW-03 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Beryllium, MW-03 (mg/L)

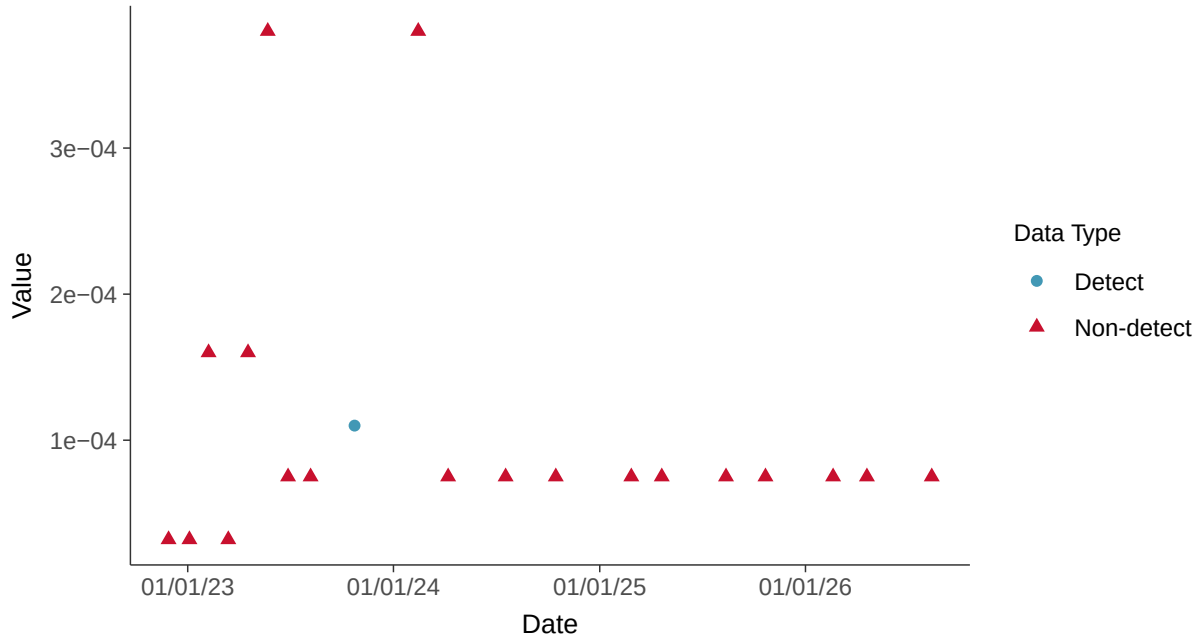


Appendix IV: Cadmium, MW-03

ID: 13_2_4_106

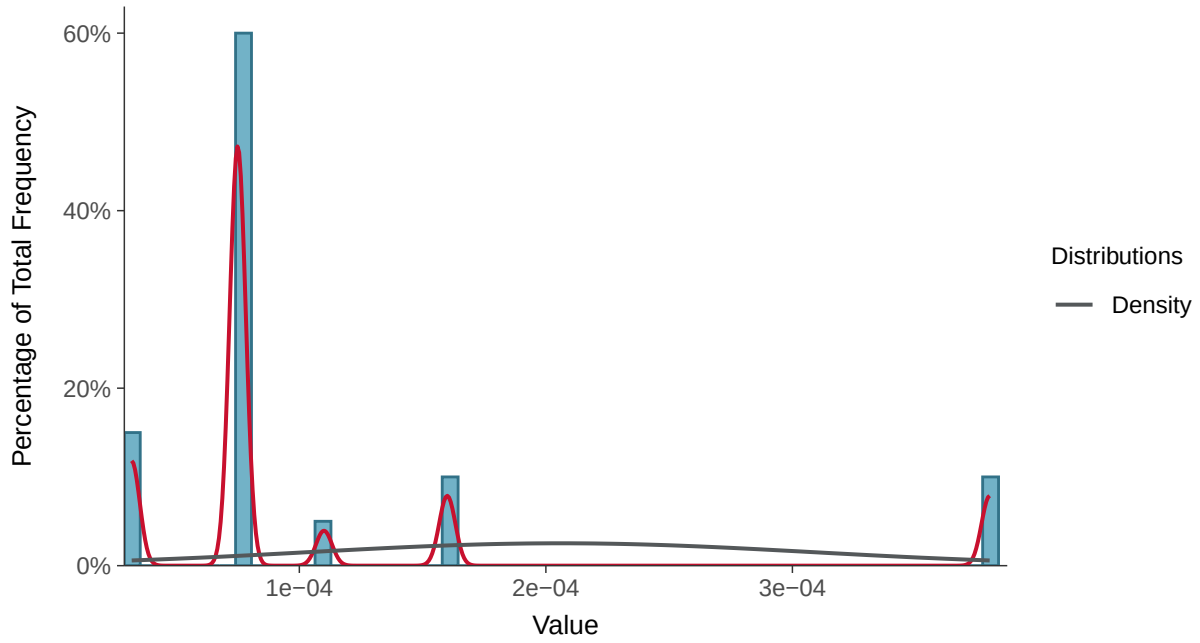
Scatter Plot

Cadmium, MW-03 (mg/L)



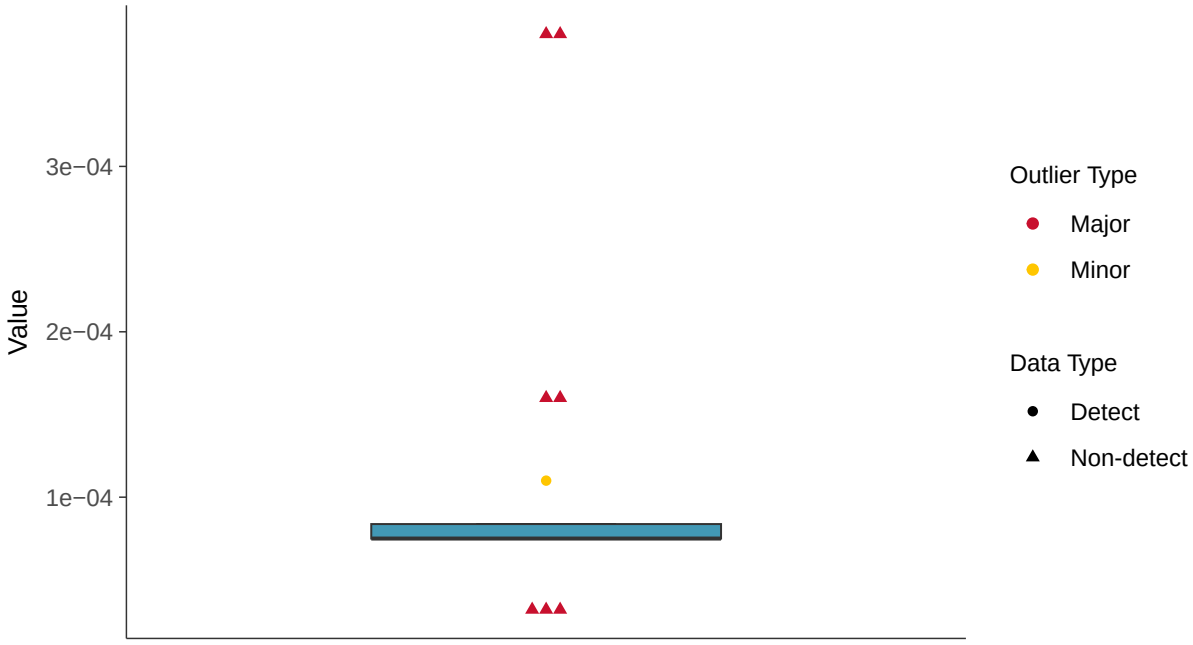
Histogram

Cadmium, MW-03 (mg/L)



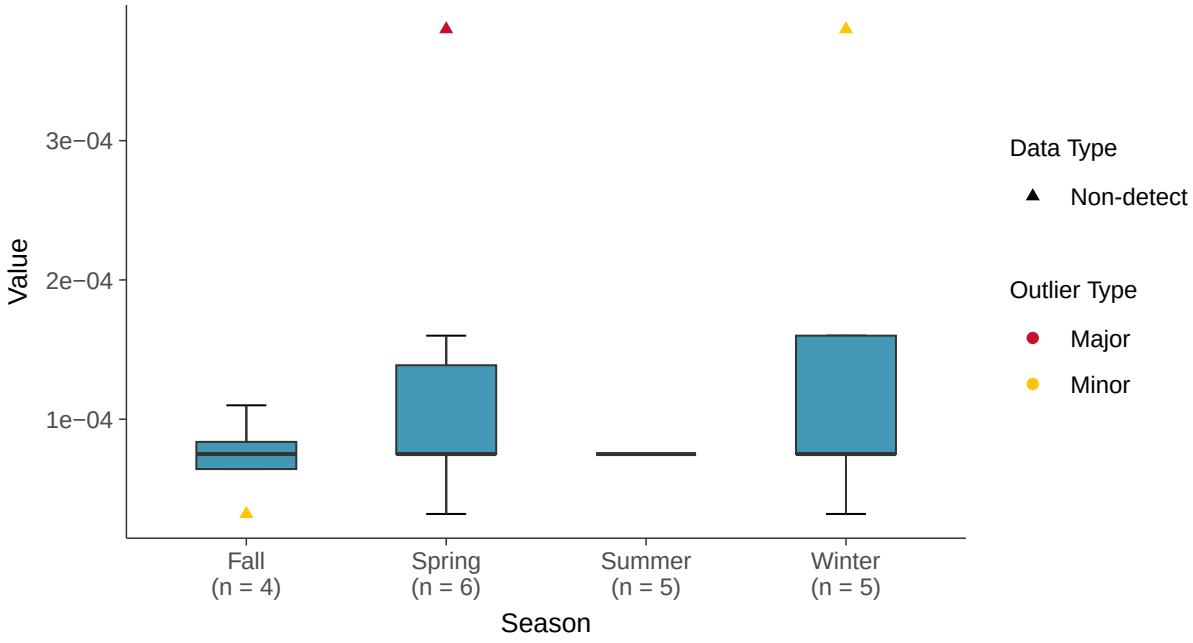
Boxplot

Cadmium, MW-03 (mg/L)



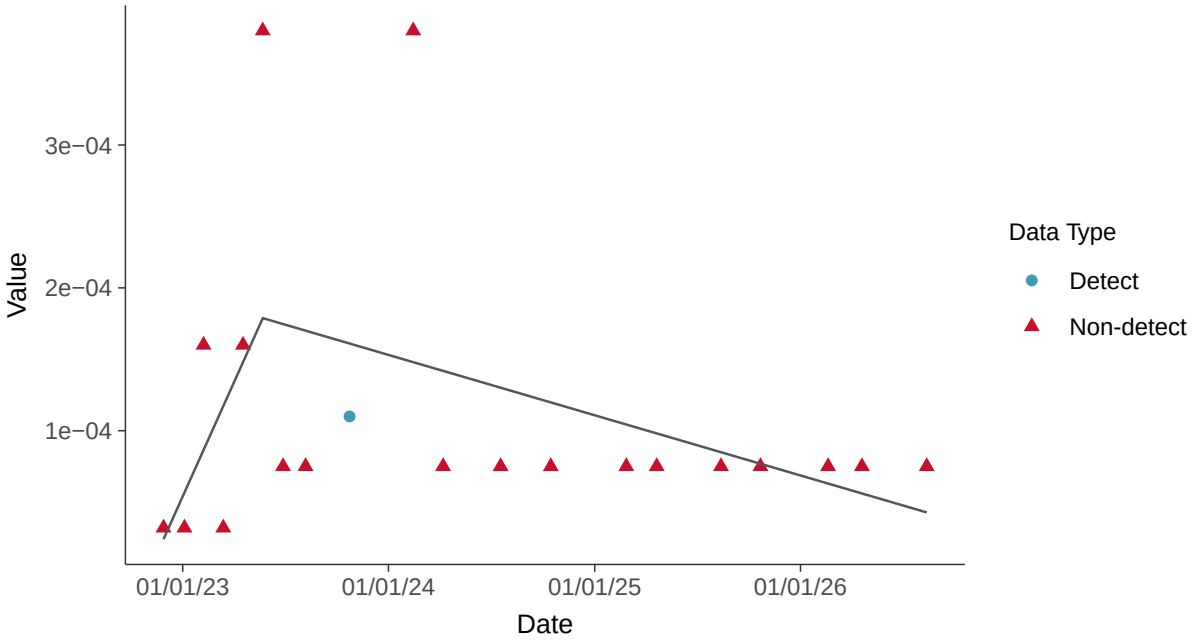
Boxplot by Season

Cadmium, MW-03 (mg/L)



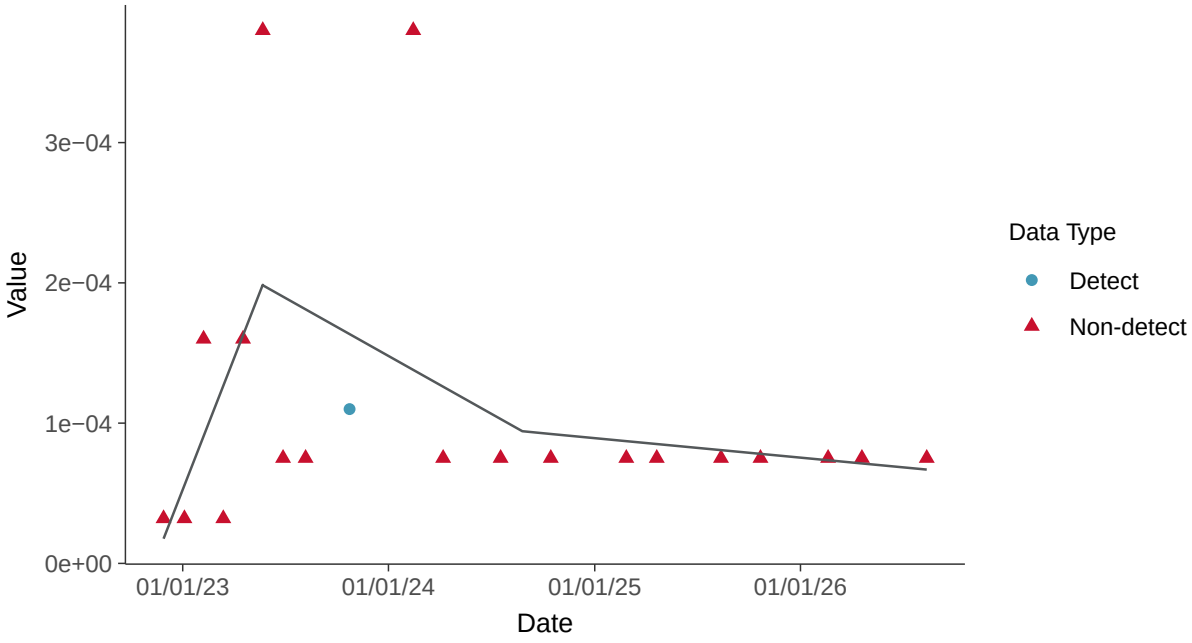
Trend Regression: Piecewise Linear-Linear

Cadmium, MW-03 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Cadmium, MW-03 (mg/L)

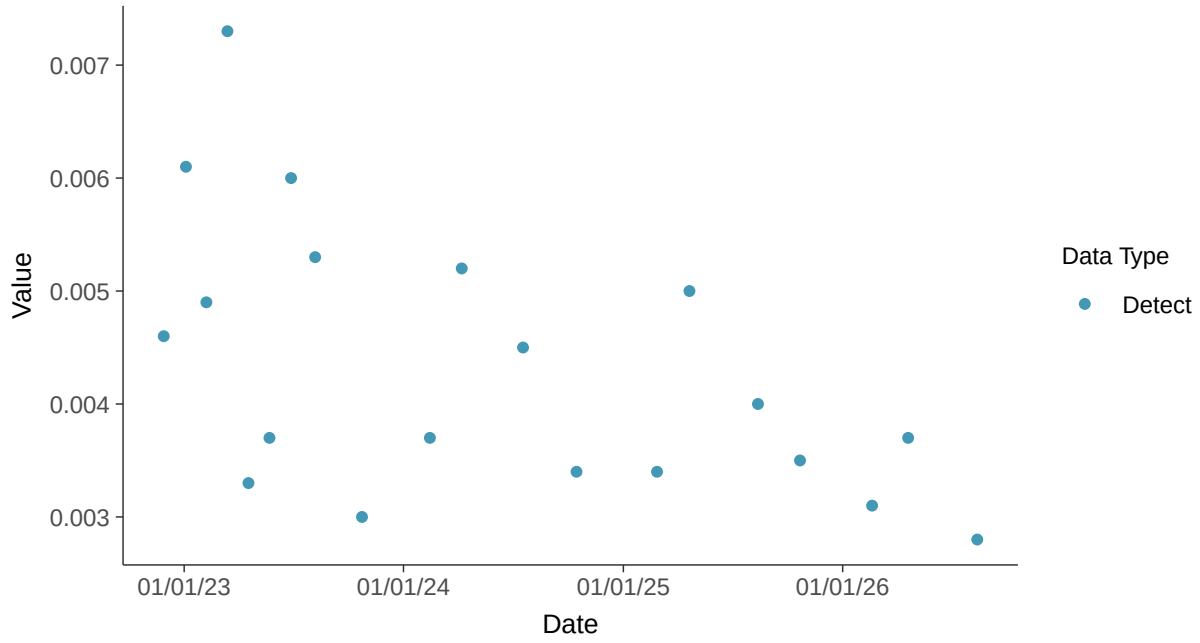


Appendix IV: Chromium, Total, MW-03

ID: 13_2_4_109

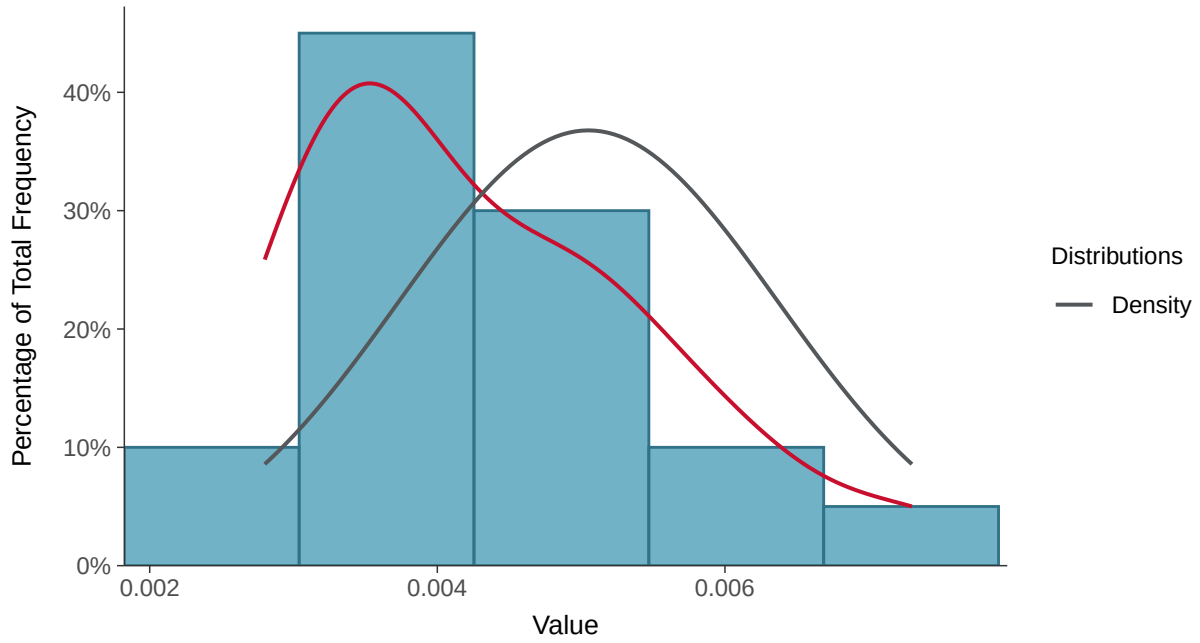
Scatter Plot

Chromium, Total, MW-03 (mg/L)



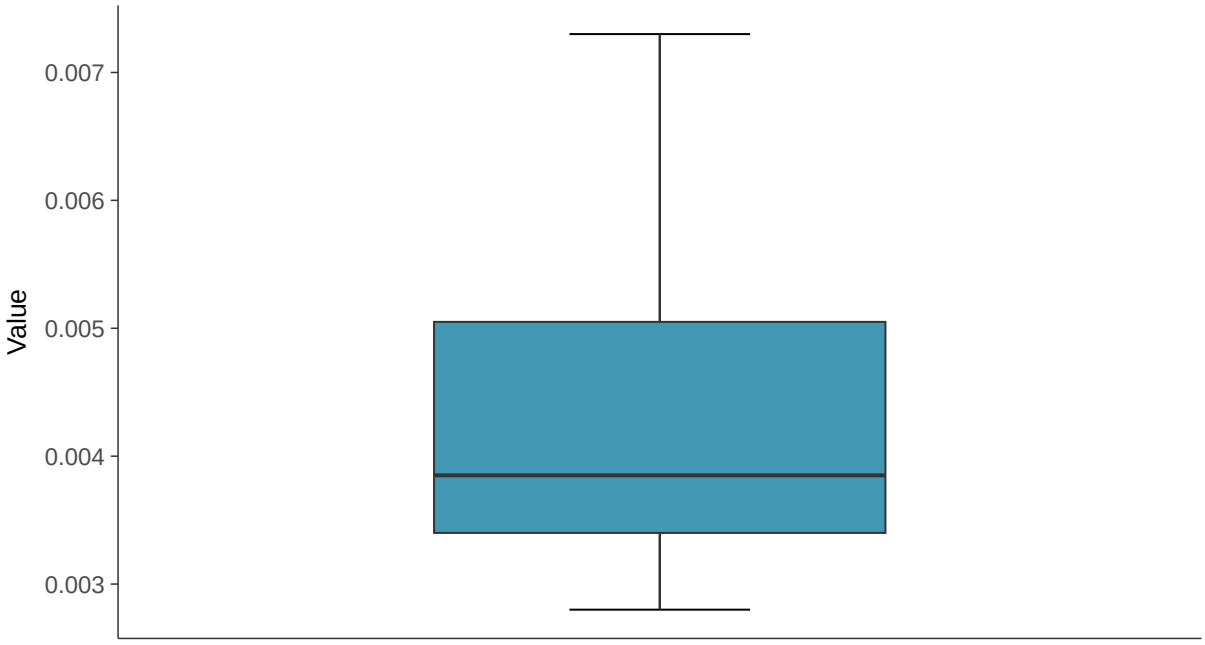
Histogram

Chromium, Total, MW-03 (mg/L)



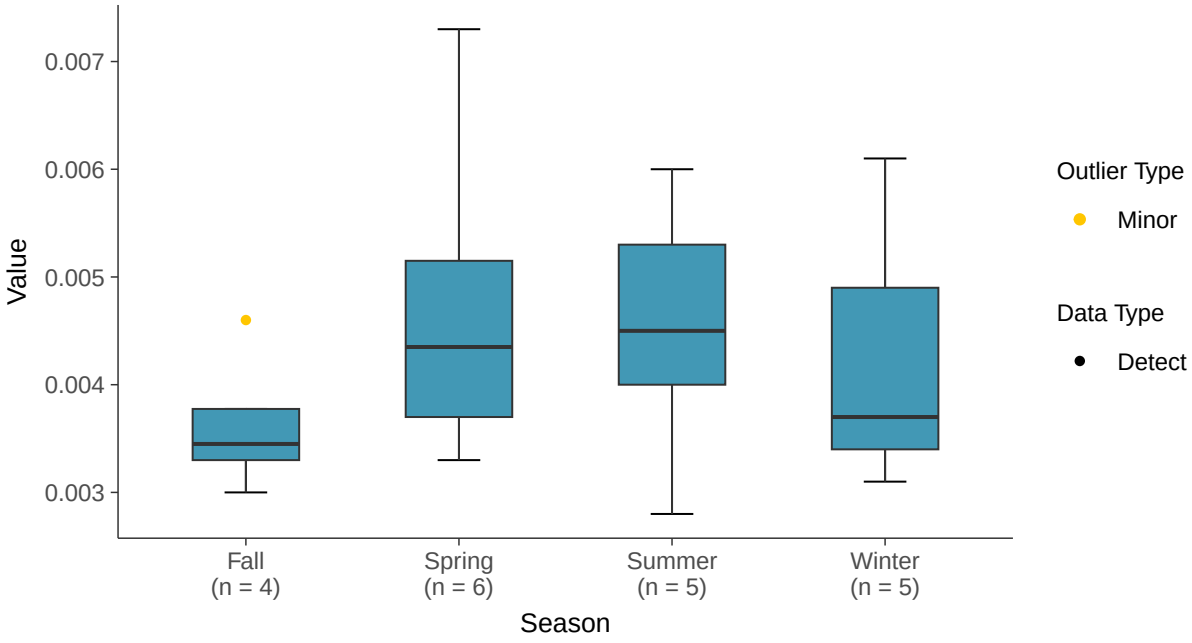
Boxplot

Chromium, Total, MW-03 (mg/L)



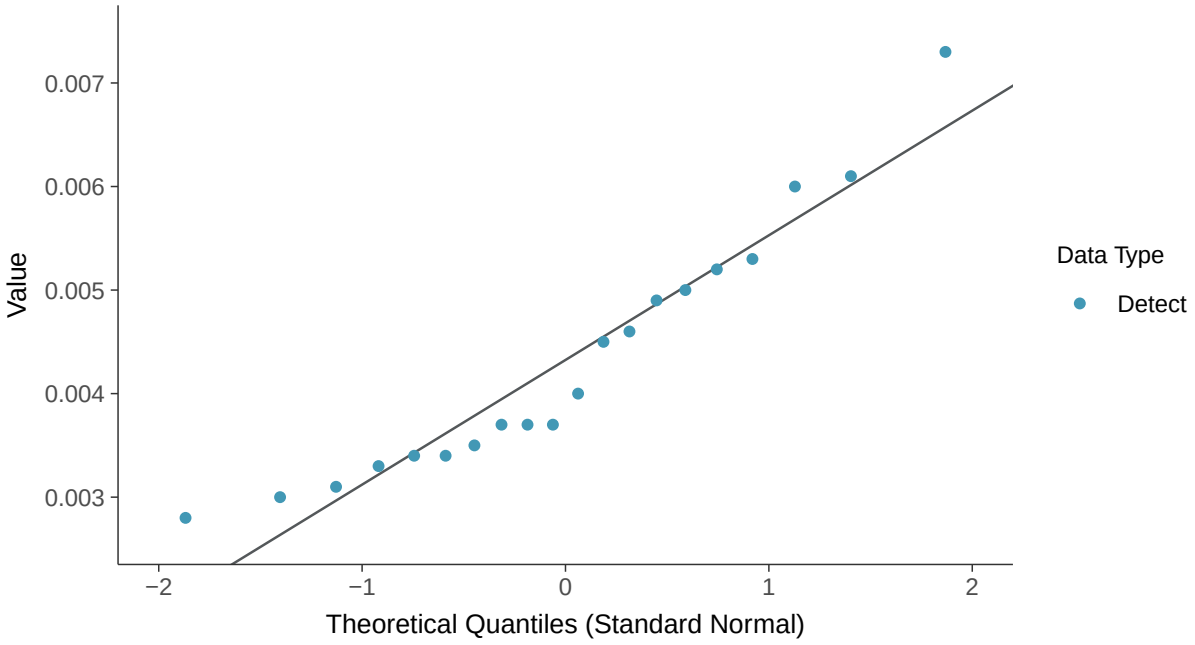
Boxplot by Season

Chromium, Total, MW-03 (mg/L)



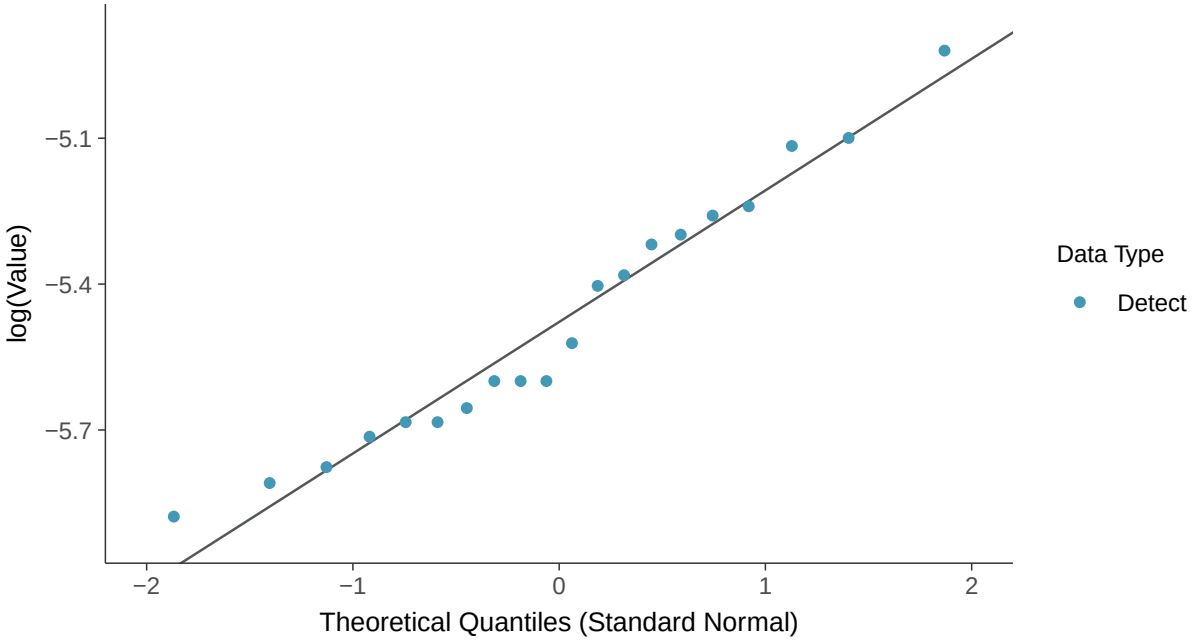
Normal Q-Q plot

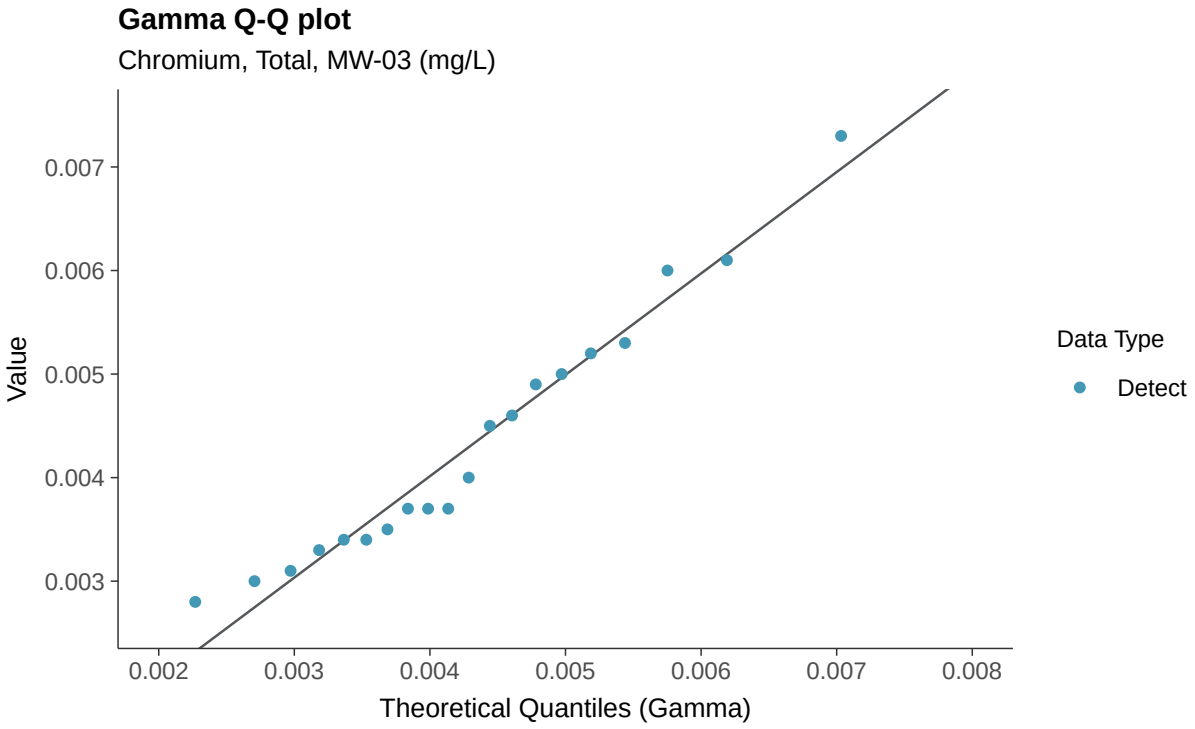
Chromium, Total, MW-03 (mg/L)

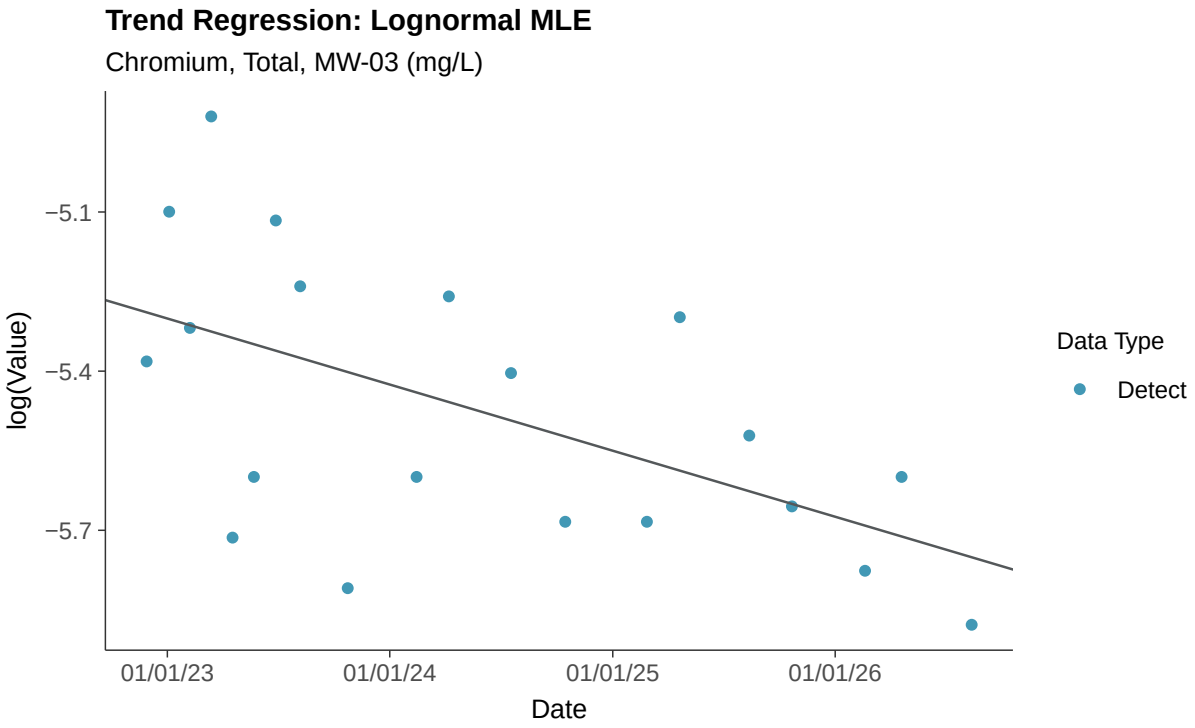


Lognormal Q-Q plot

Chromium, Total, MW-03 (mg/L)

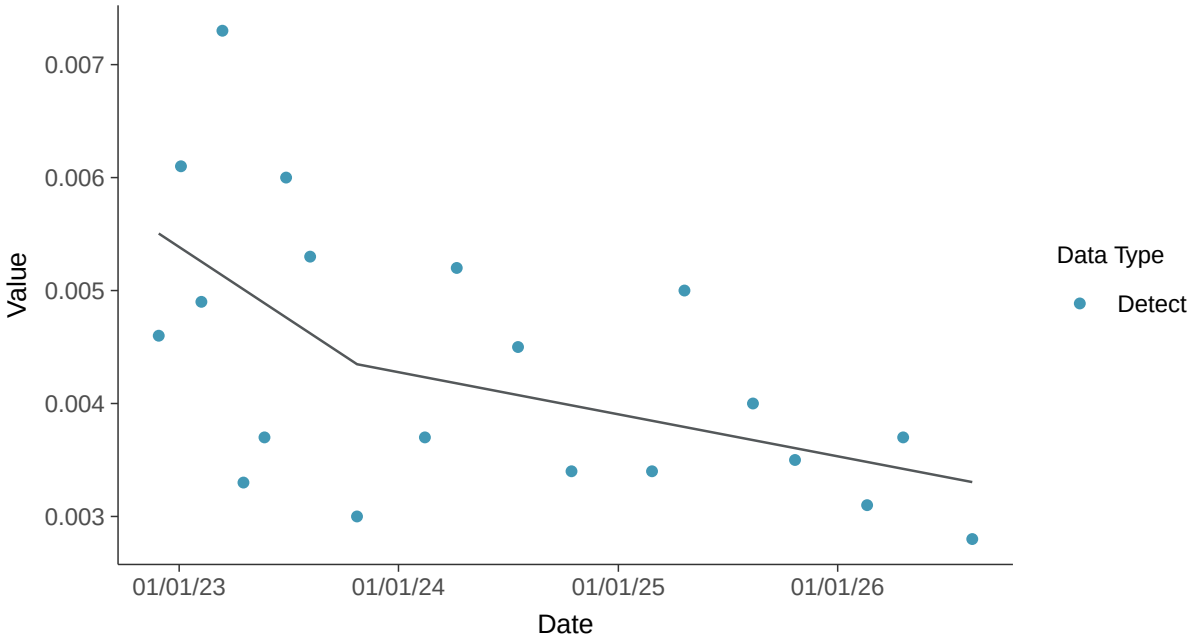



Gamma Q-Q plot
Chromium, Total, MW-03 (mg/L)
Value
0.007
0.006
0.005
0.004
0.003
0.002
0.003
0.004
0.005
0.006
0.007
0.008
Theoretical Quantiles (Gamma)
Data Type
Detect


Trend Regression: Lognormal MLE
Chromium, Total, MW-03 (mg/L)
log(Value)
−5.1
−5.4
−5.7
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect

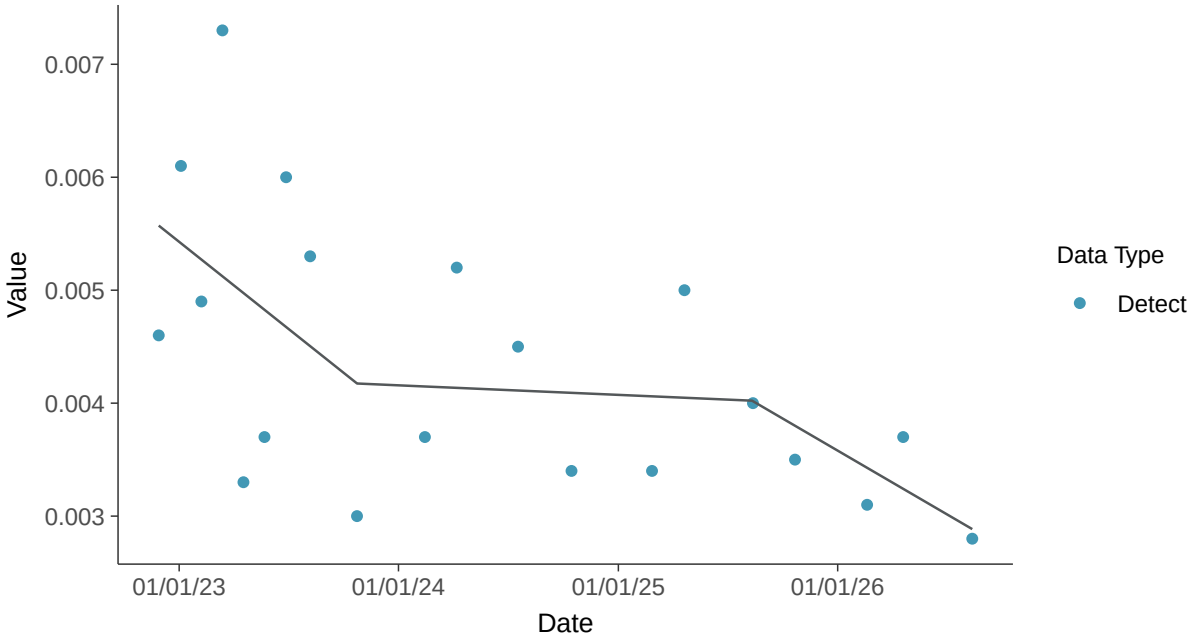
Trend Regression: Piecewise Linear-Linear

Chromium, Total, MW-03 (mg/L)



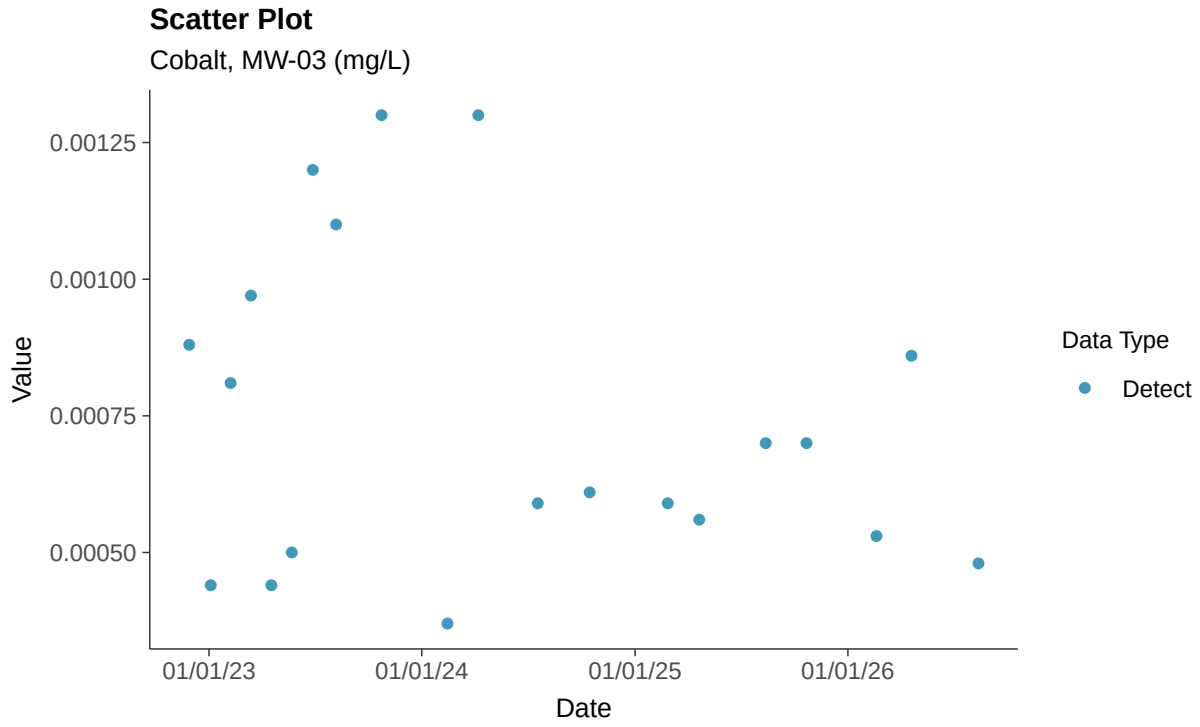
Trend Regression: Piecewise Linear-Linear-Linear

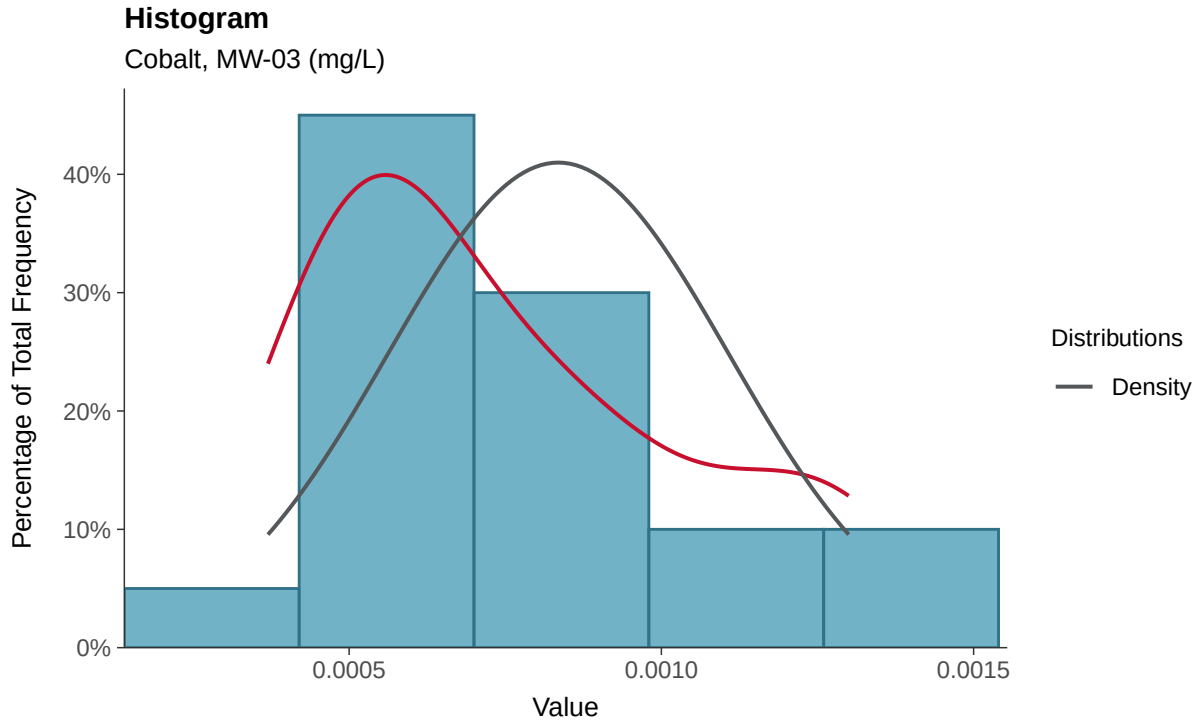
Chromium, Total, MW-03 (mg/L)



Appendix IV: Cobalt, MW-03

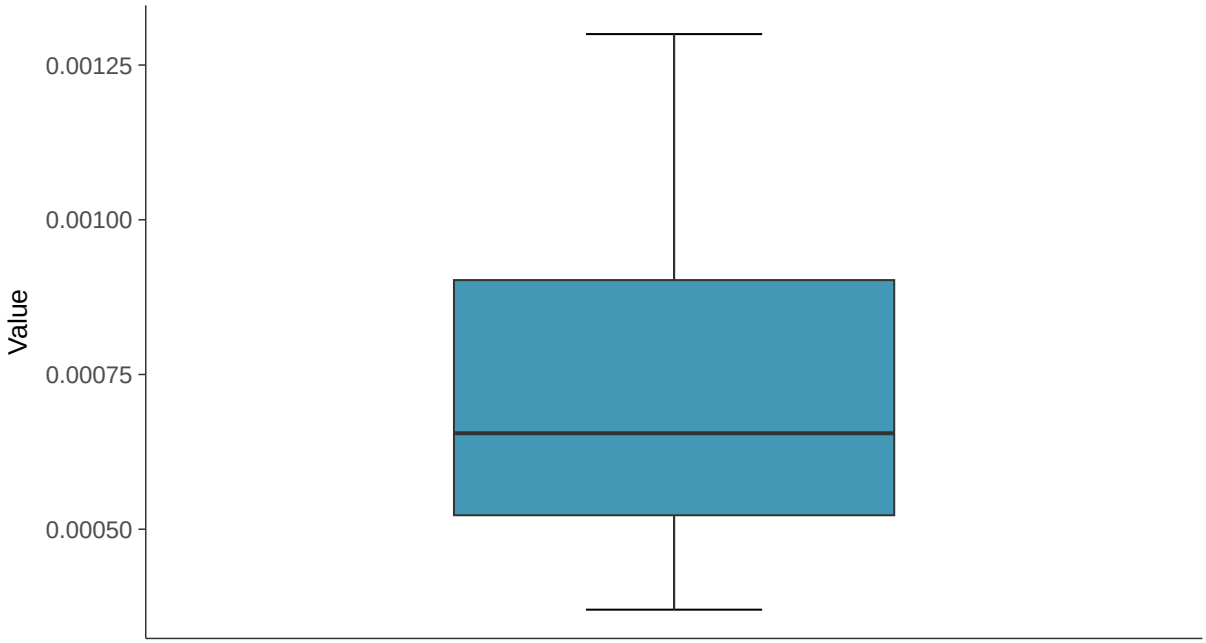
ID: 13_2_4_110





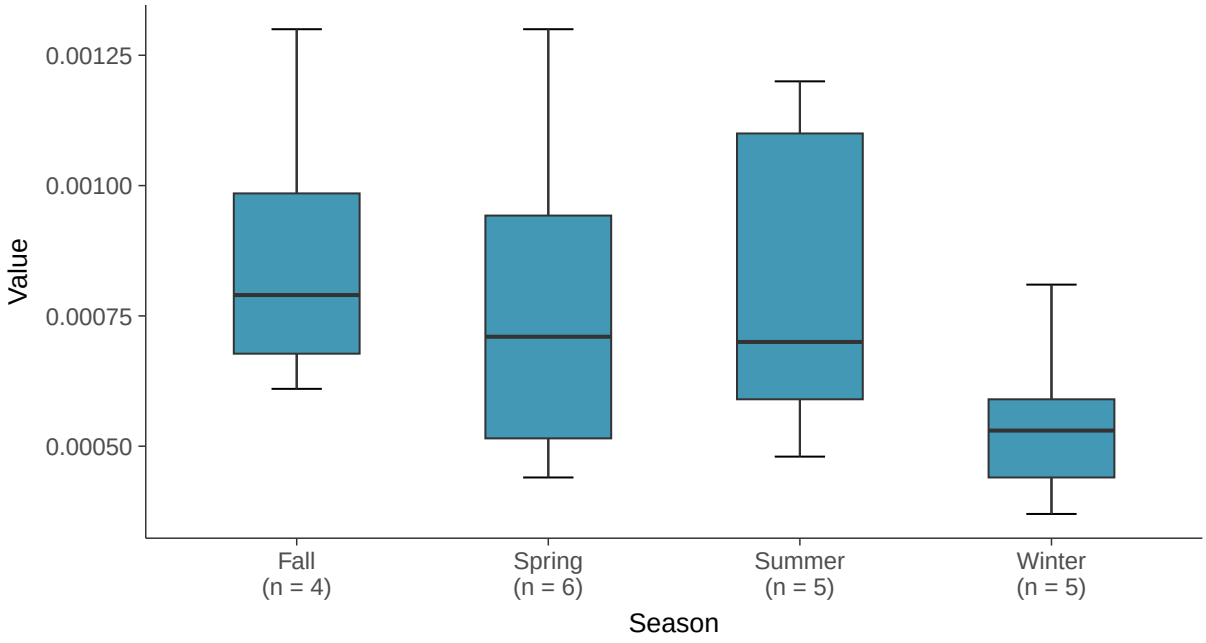
Boxplot

Cobalt, MW-03 (mg/L)



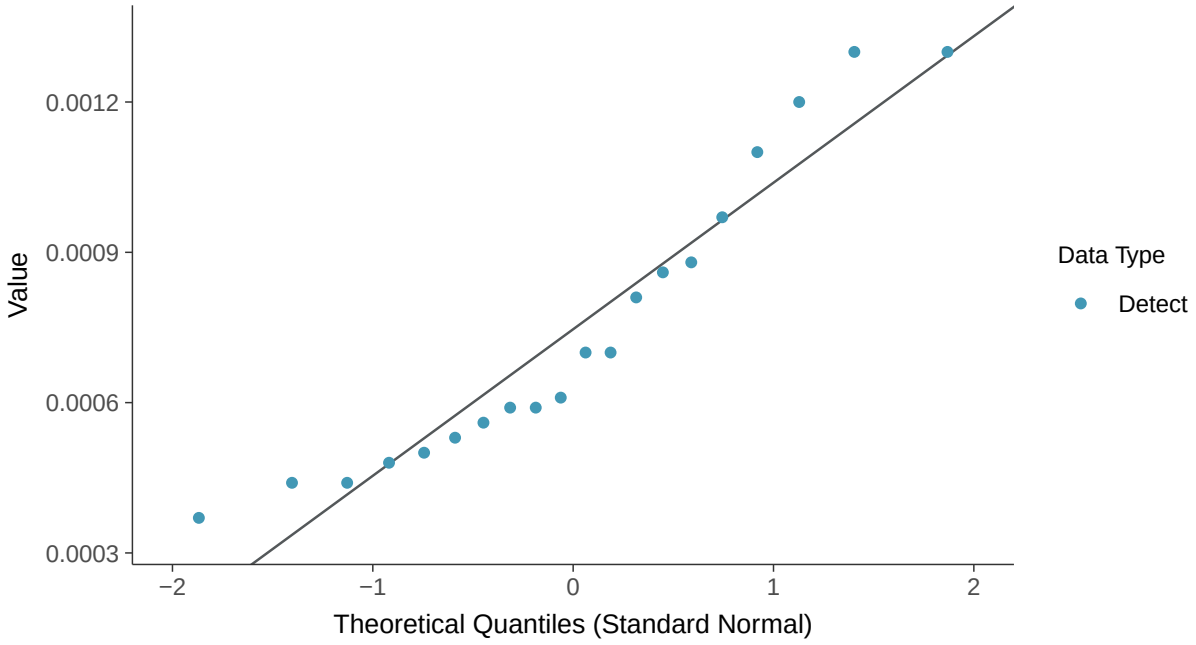
Boxplot by Season

Cobalt, MW-03 (mg/L)



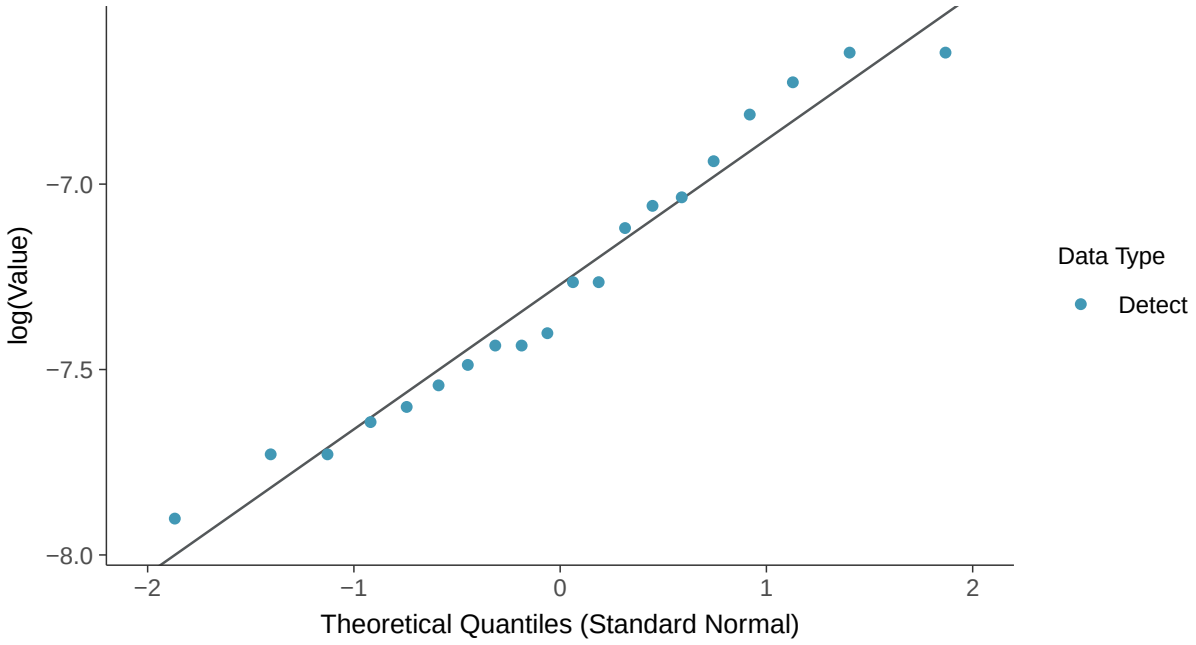
Normal Q-Q plot

Cobalt, MW-03 (mg/L)



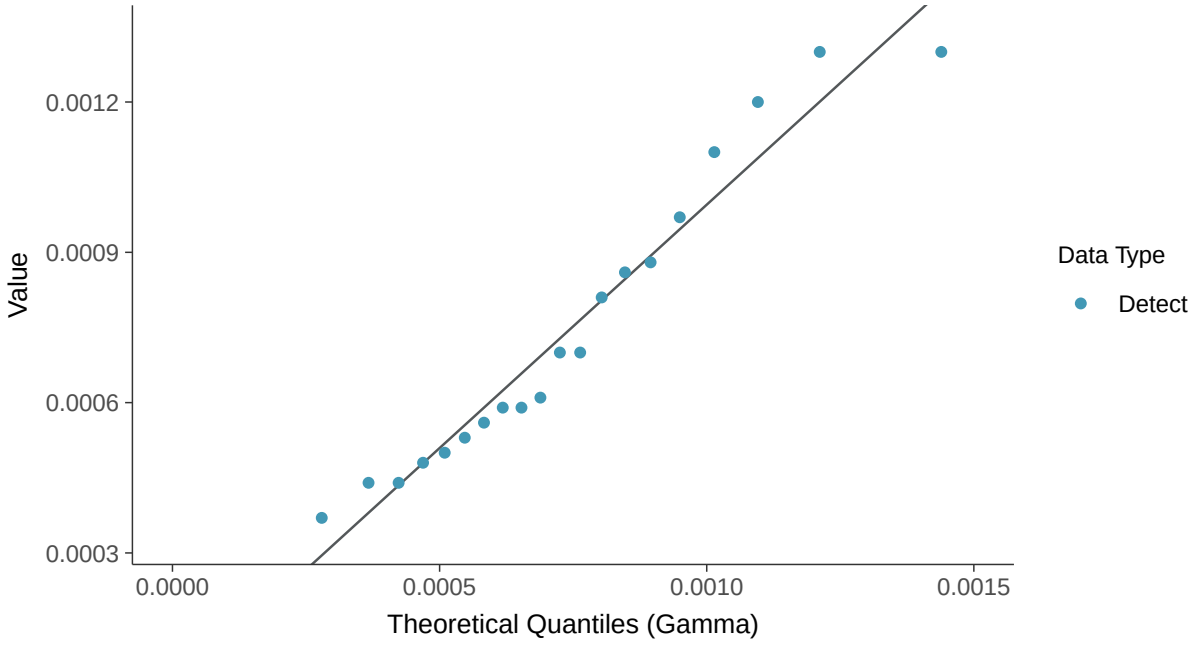
Lognormal Q-Q plot

Cobalt, MW-03 (mg/L)



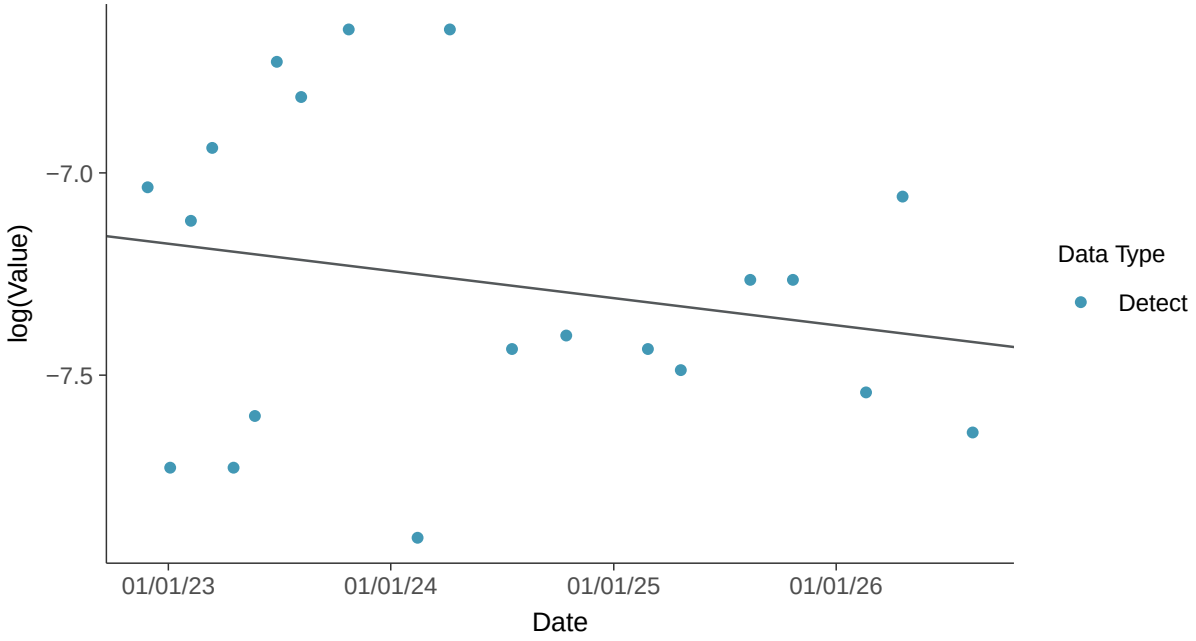
Gamma Q-Q plot

Cobalt, MW-03 (mg/L)



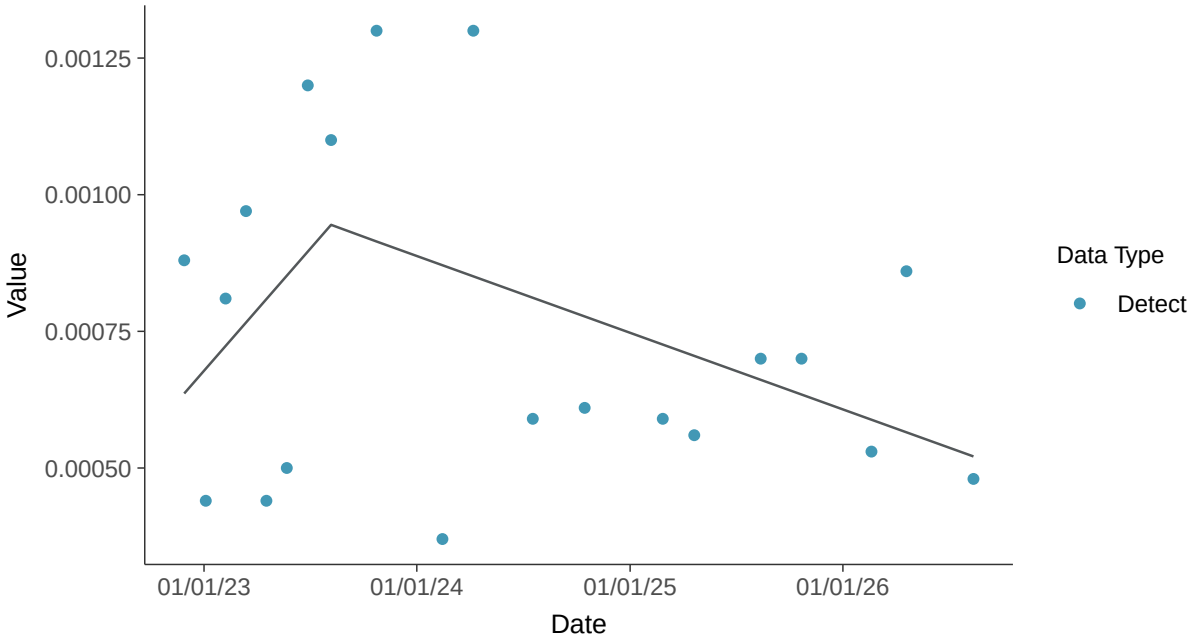
Trend Regression: Lognormal MLE

Cobalt, MW-03 (mg/L)



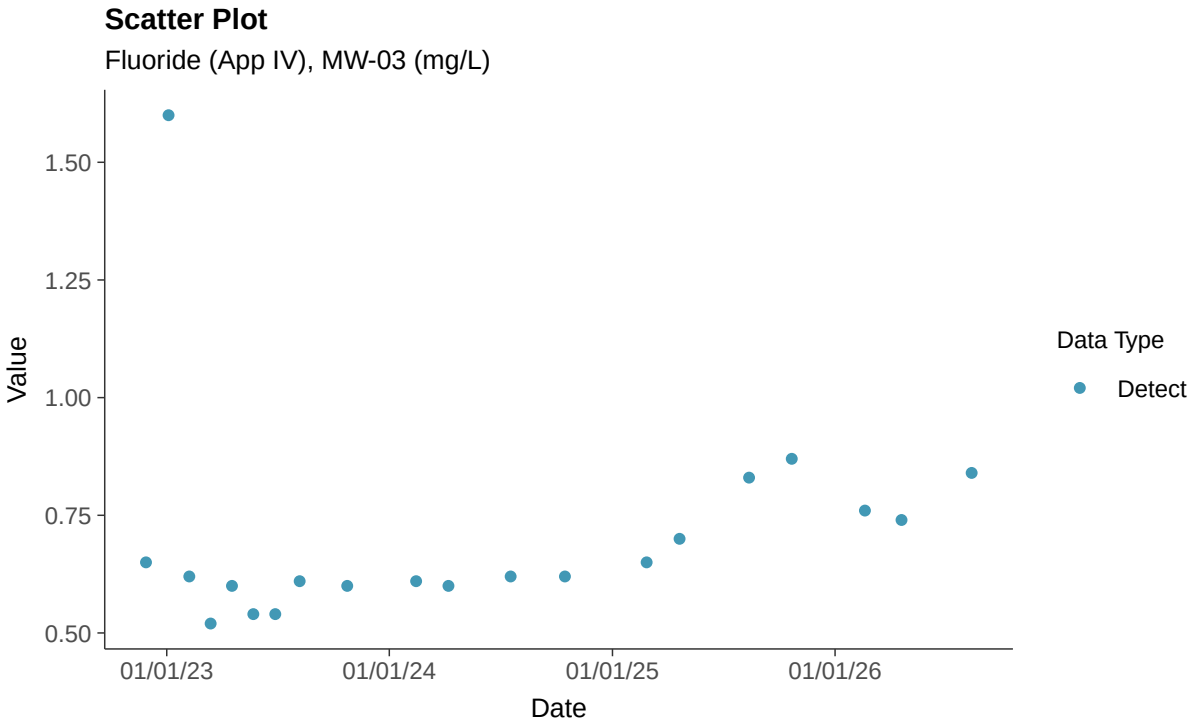
Trend Regression: Piecewise Linear-Linear

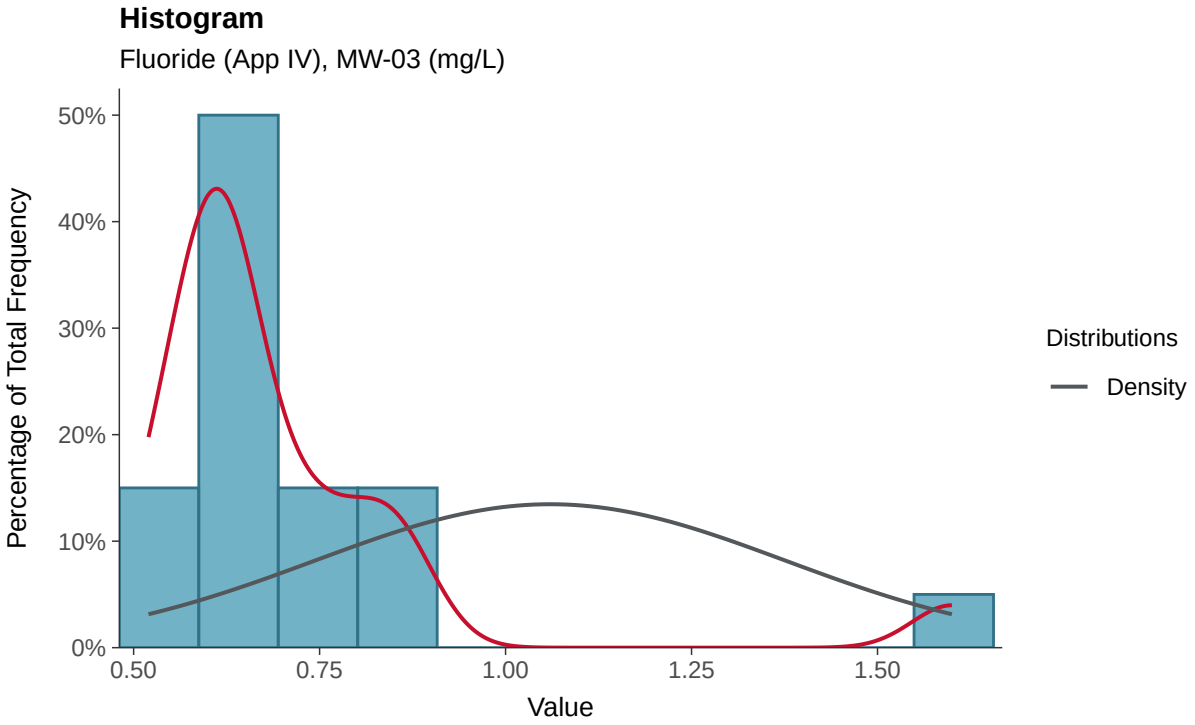
Cobalt, MW-03 (mg/L)



Appendix IV: Fluoride (App IV), MW-03

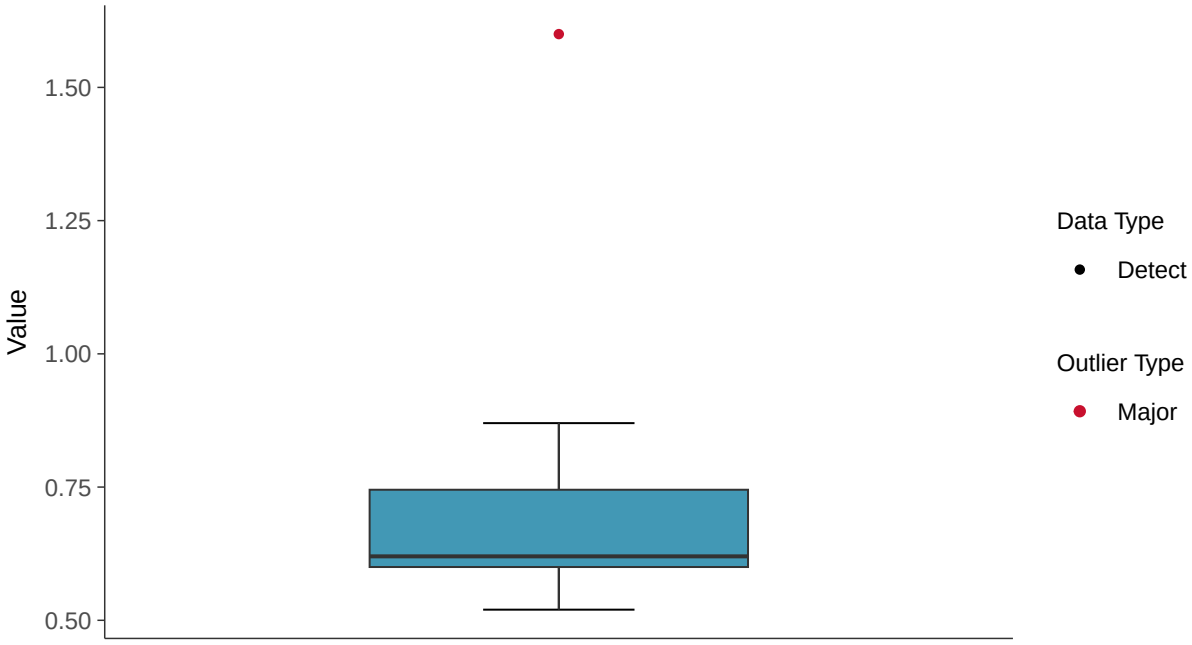
ID: 13_2_4_113





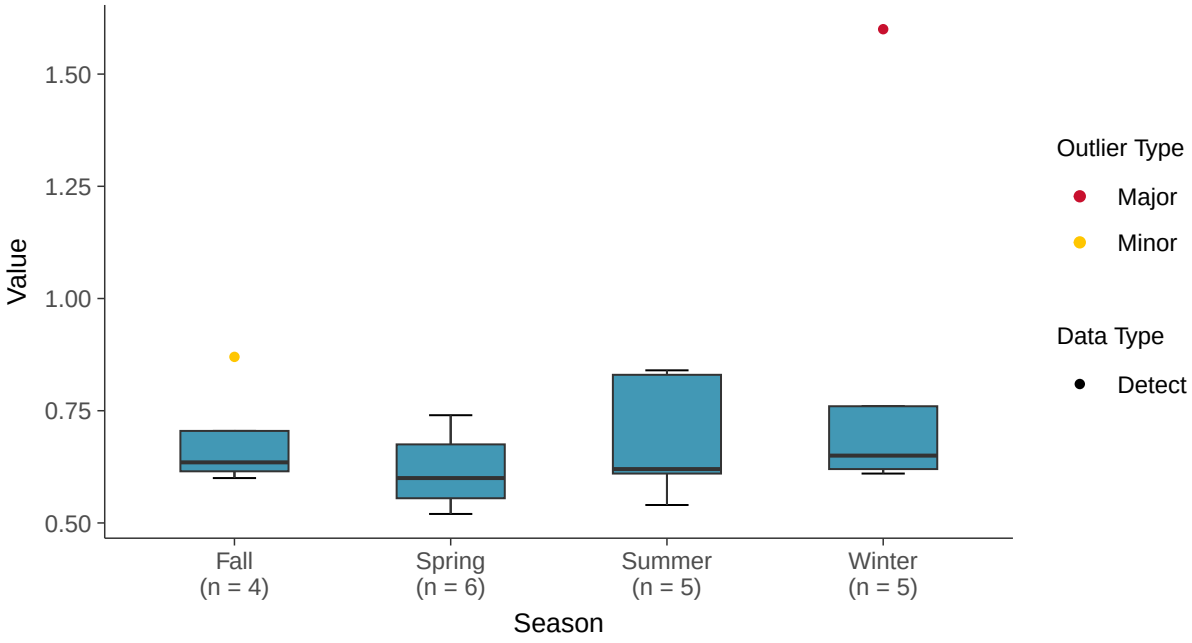
Boxplot

Fluoride (App IV), MW-03 (mg/L)



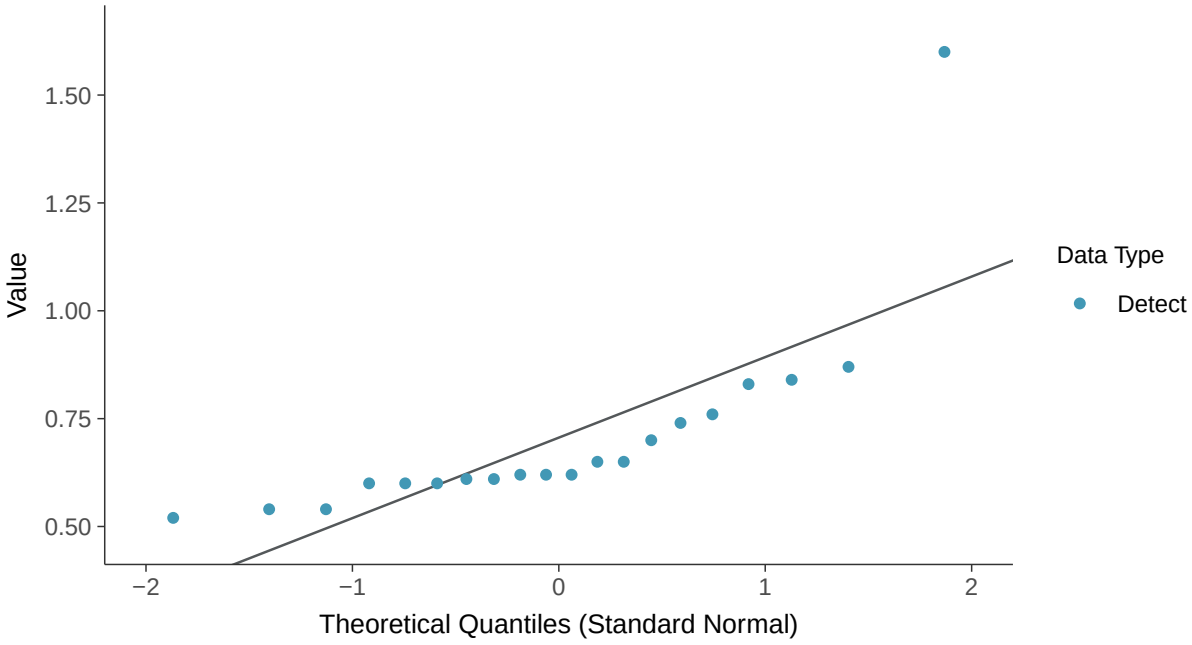
Boxplot by Season

Fluoride (App IV), MW-03 (mg/L)



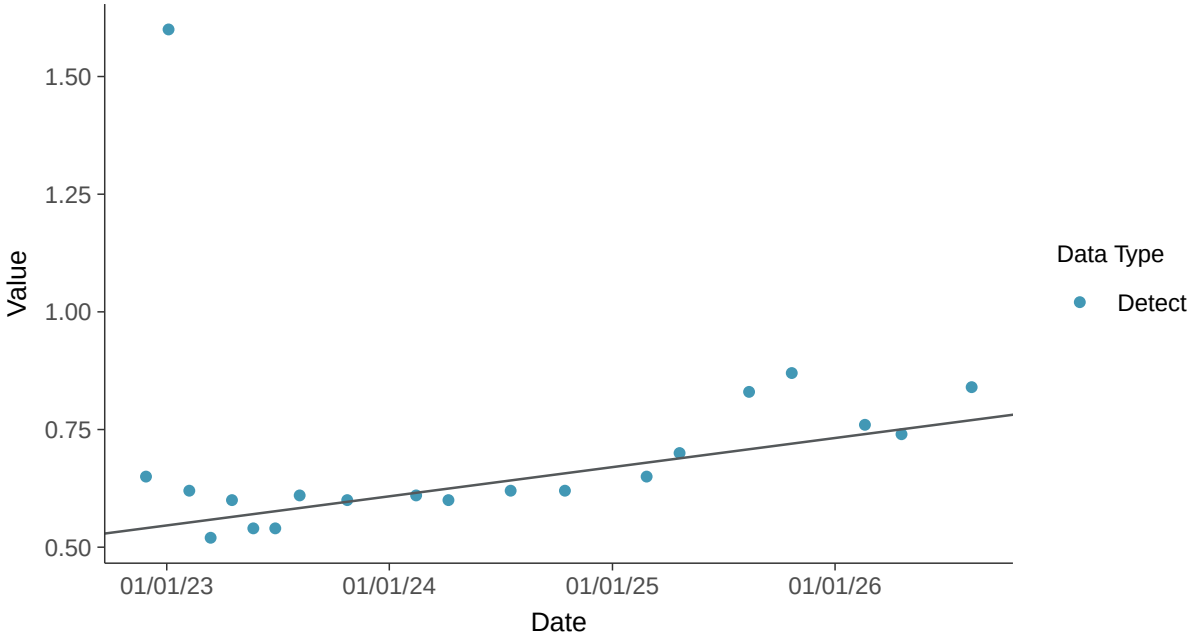
Normal Q-Q plot

Fluoride (App IV), MW-03 (mg/L)



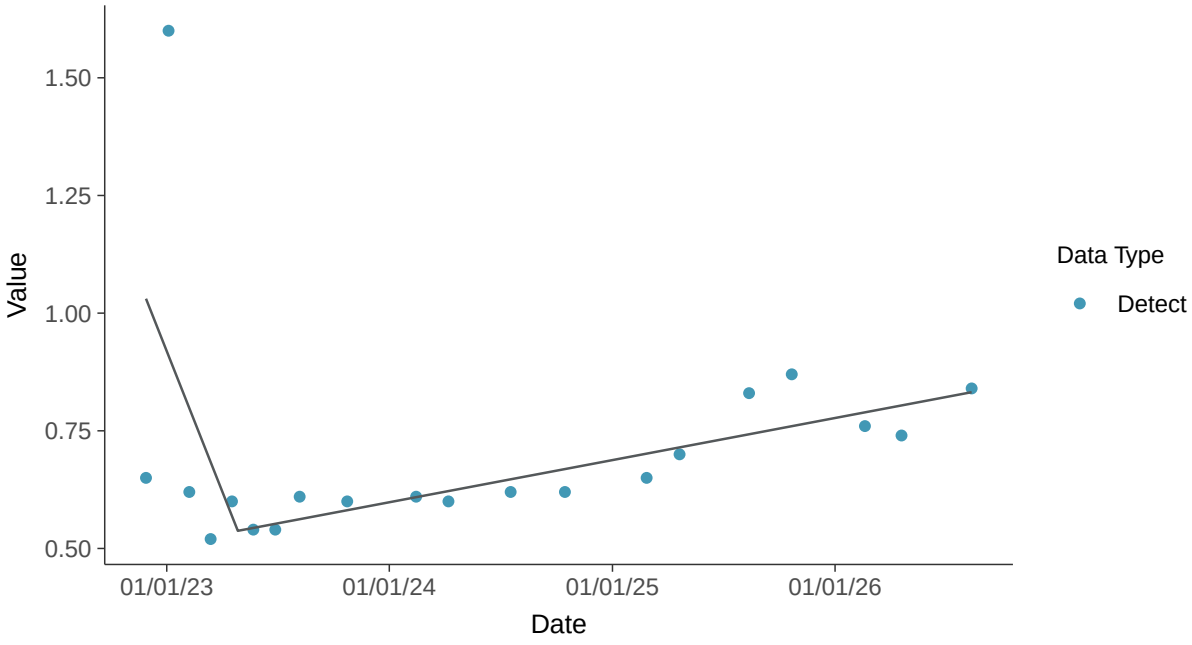
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Fluoride (App IV), MW-03 (mg/L)



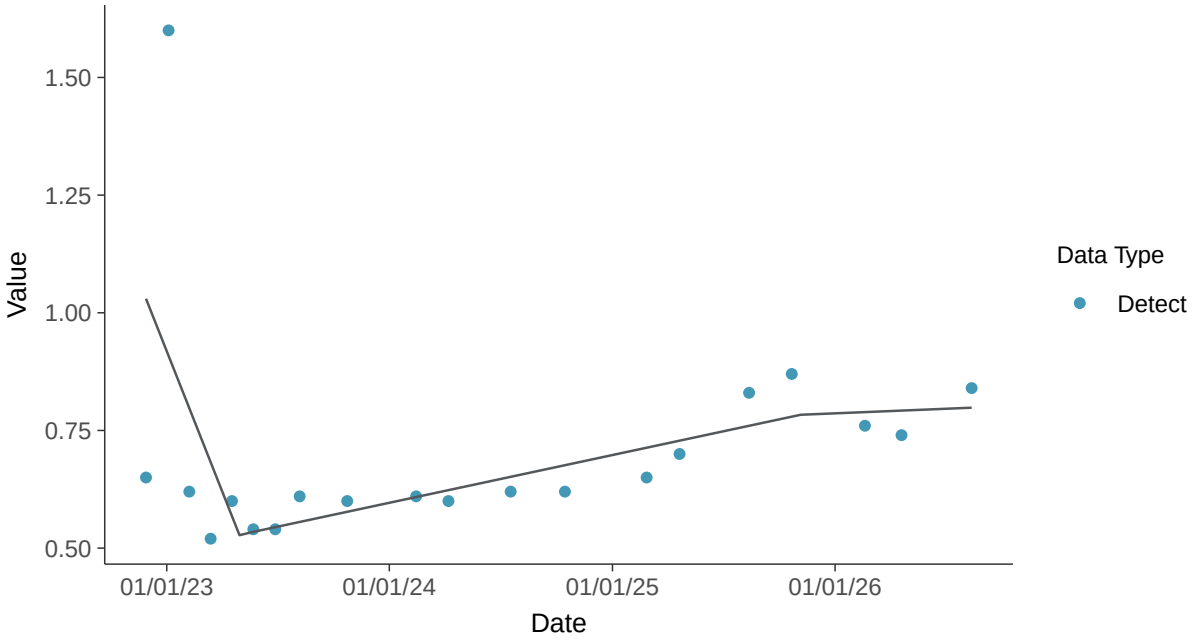
Trend Regression: Piecewise Linear-Linear

Fluoride (App IV), MW-03 (mg/L)



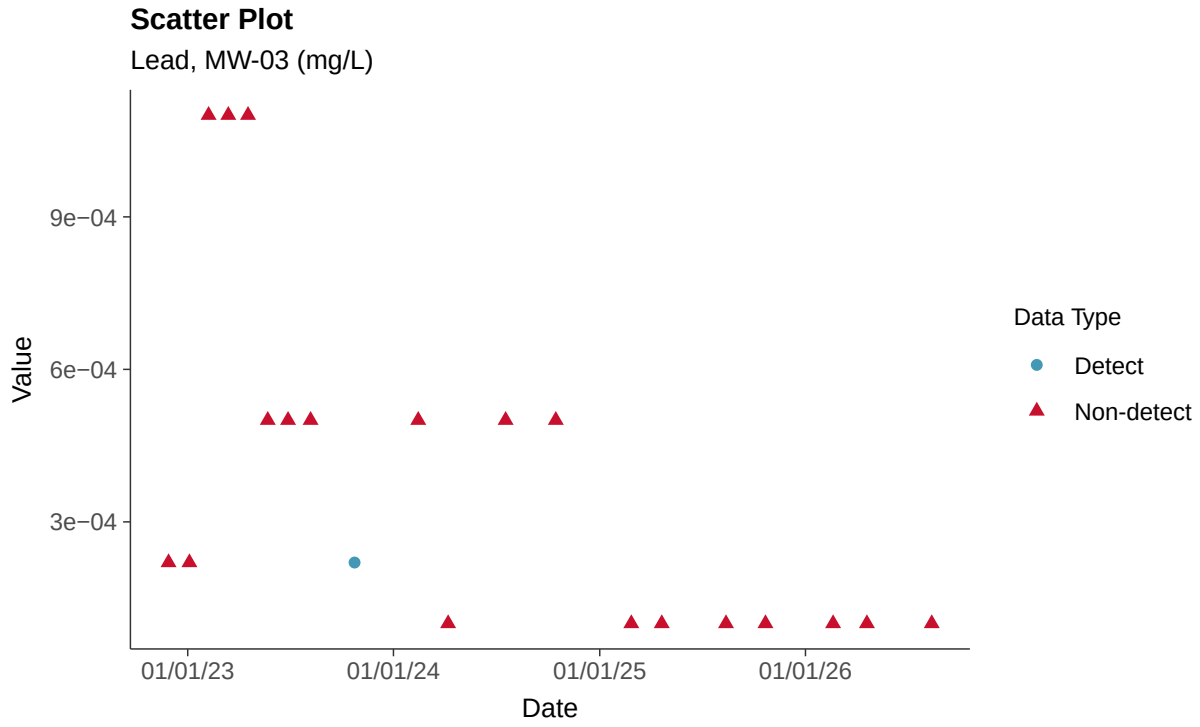
Trend Regression: Piecewise Linear-Linear-Linear

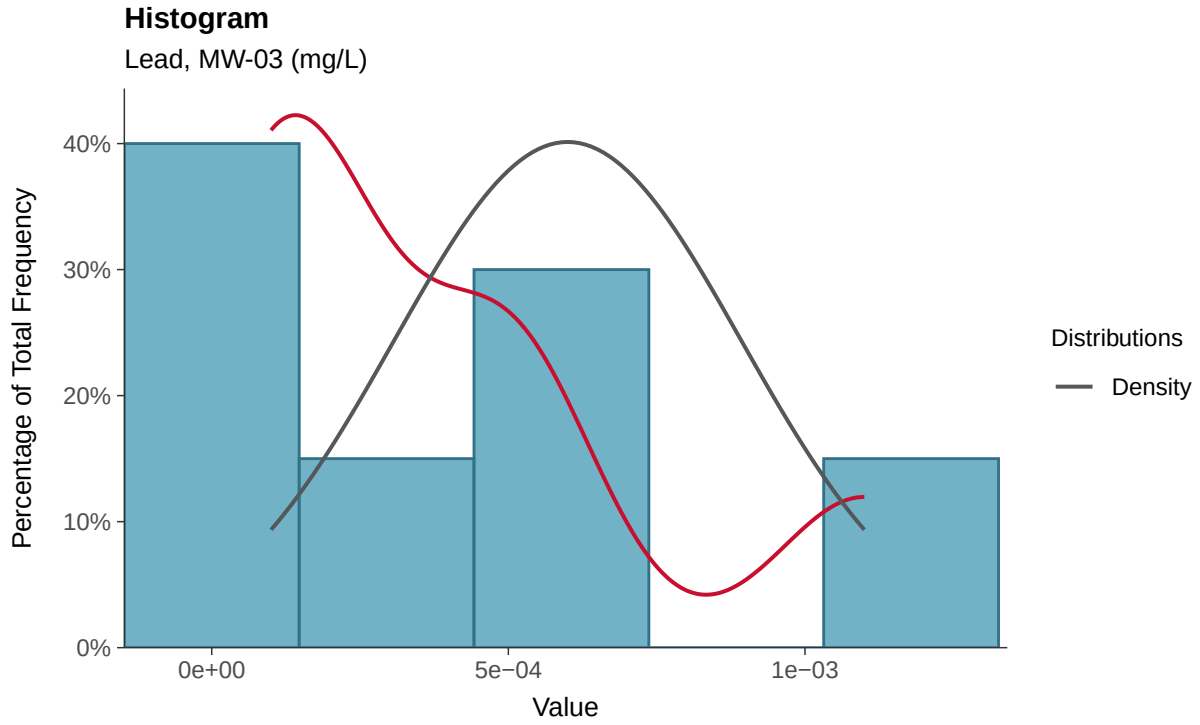
Fluoride (App IV), MW-03 (mg/L)



Appendix IV: Lead, MW-03

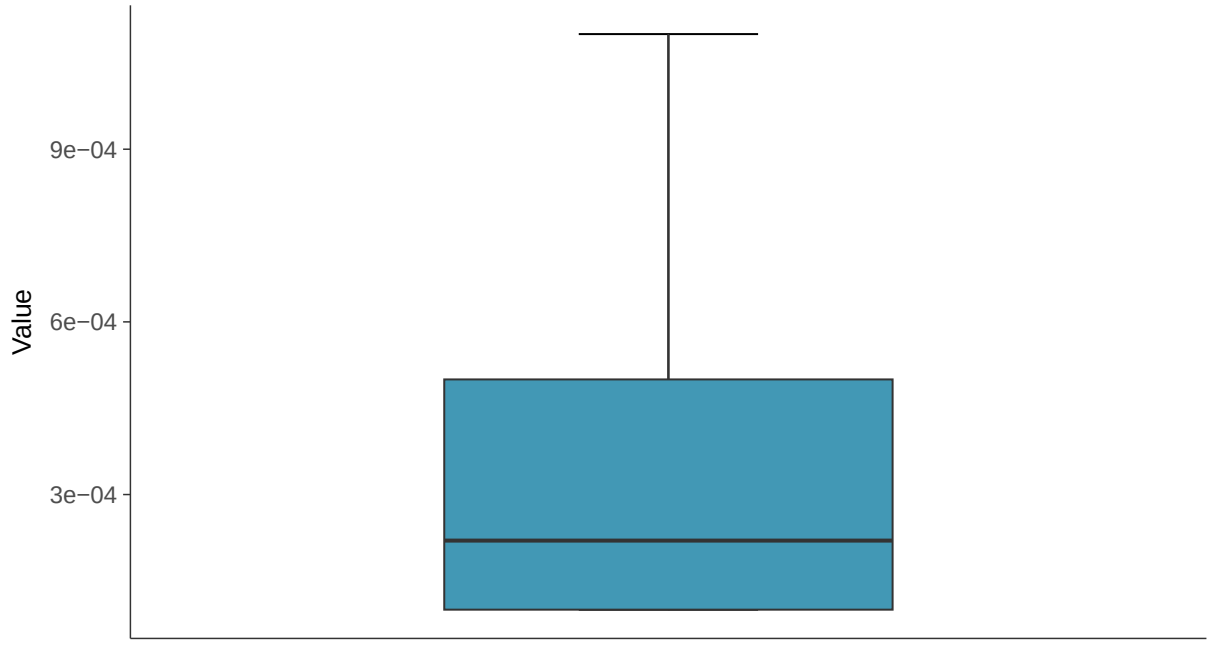
ID: 13_2_4_115





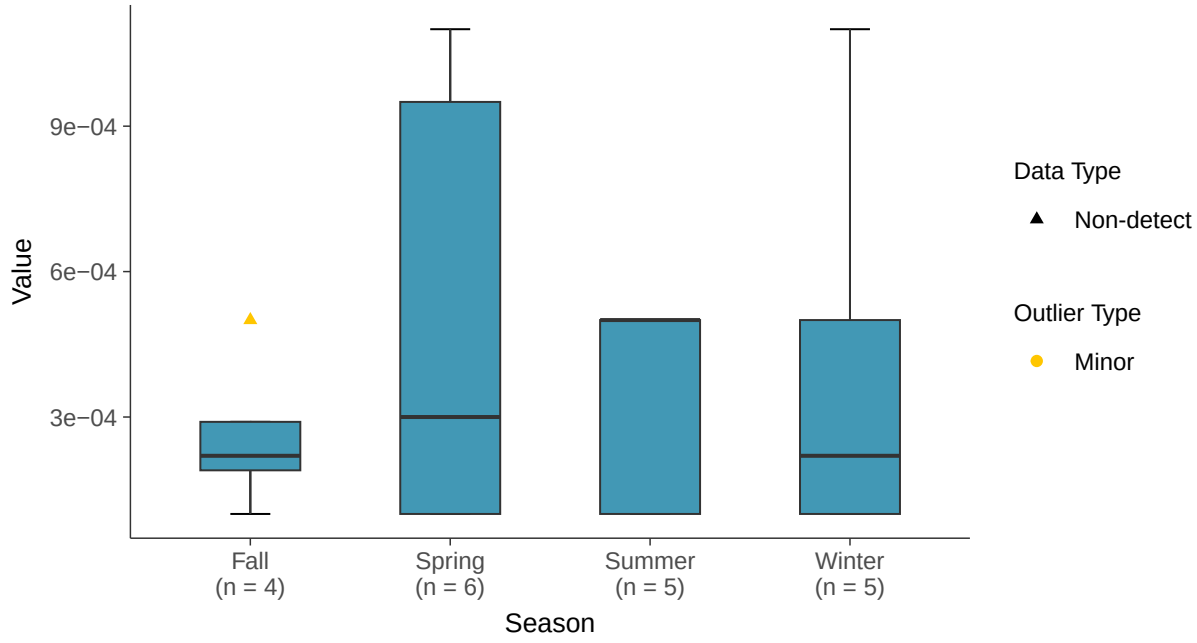
Boxplot

Lead, MW-03 (mg/L)



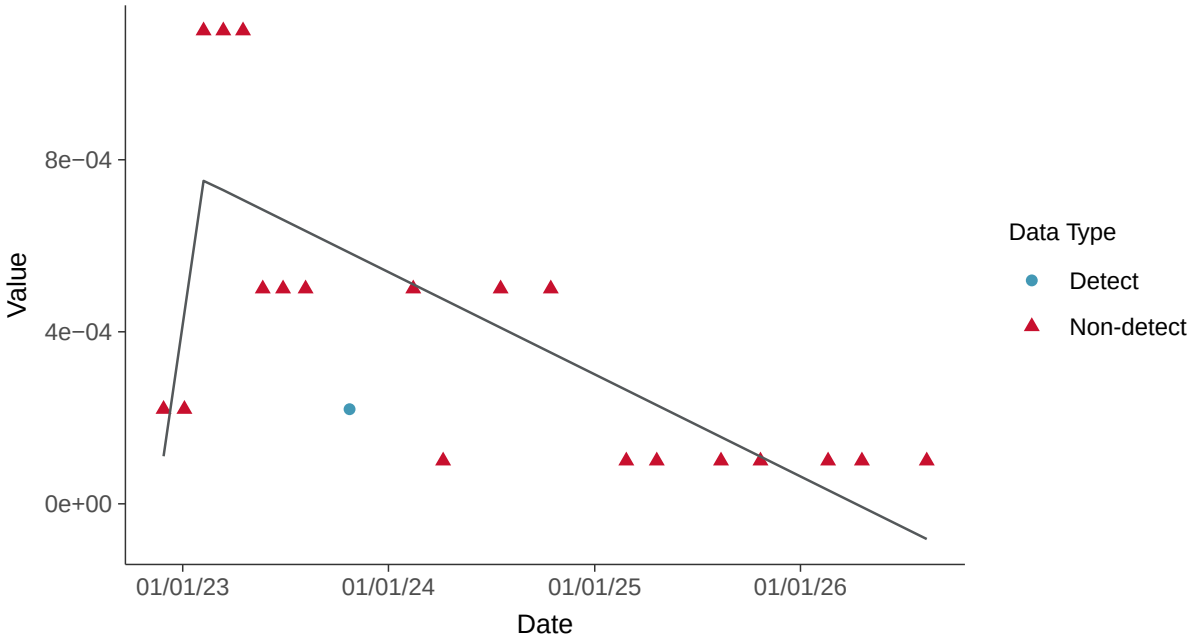
Boxplot by Season

Lead, MW-03 (mg/L)



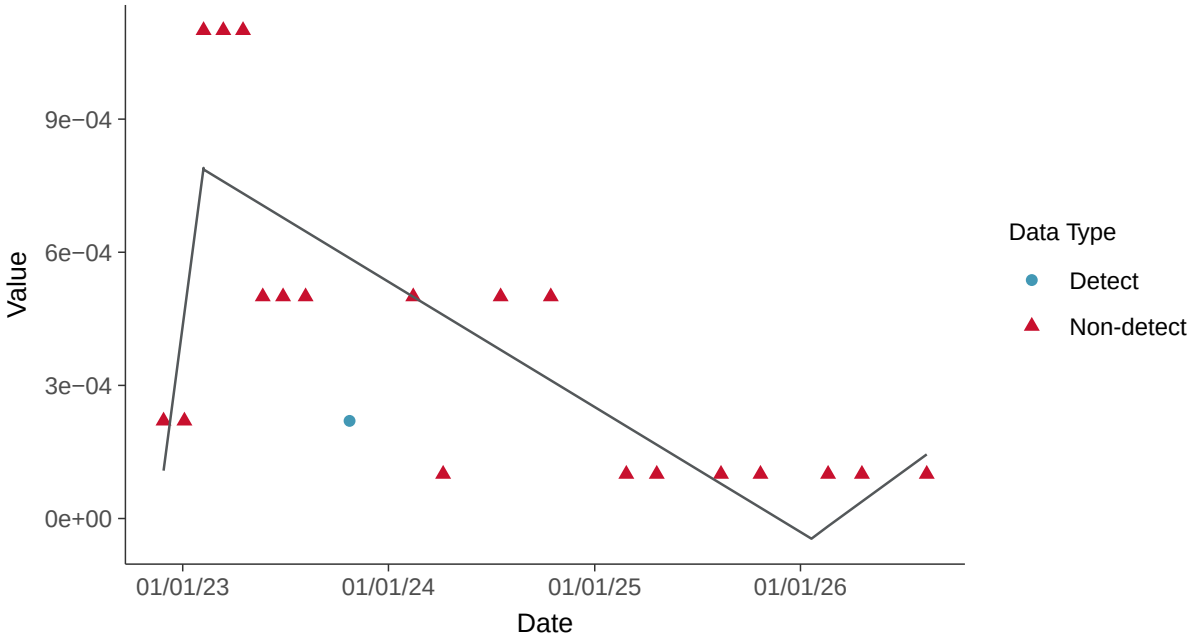
Trend Regression: Piecewise Linear-Linear

Lead, MW-03 (mg/L)



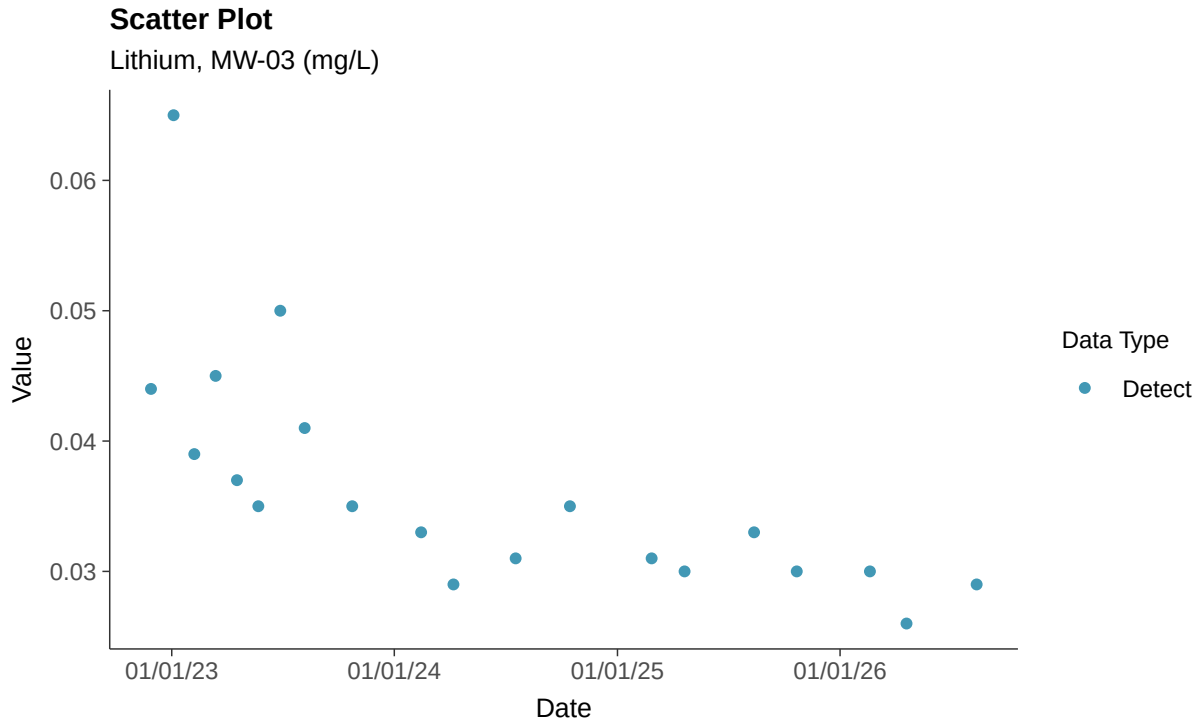
Trend Regression: Piecewise Linear-Linear-Linear

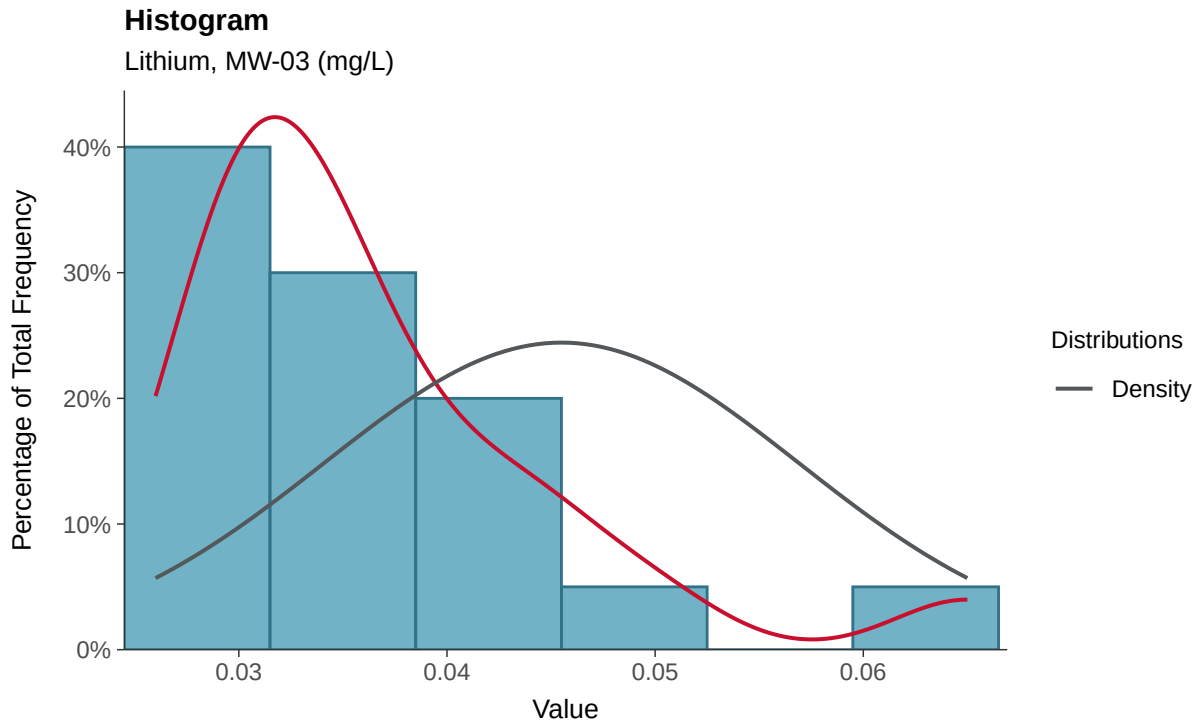
Lead, MW-03 (mg/L)



Appendix IV: Lithium, MW-03

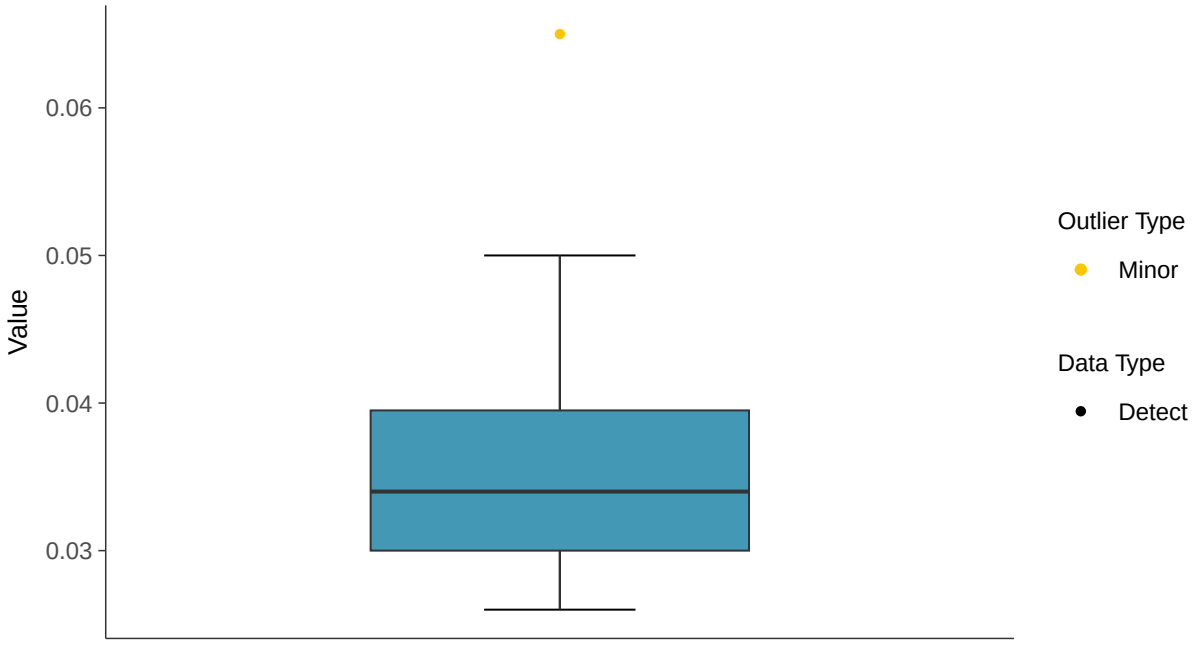
ID: 13_2_4_116





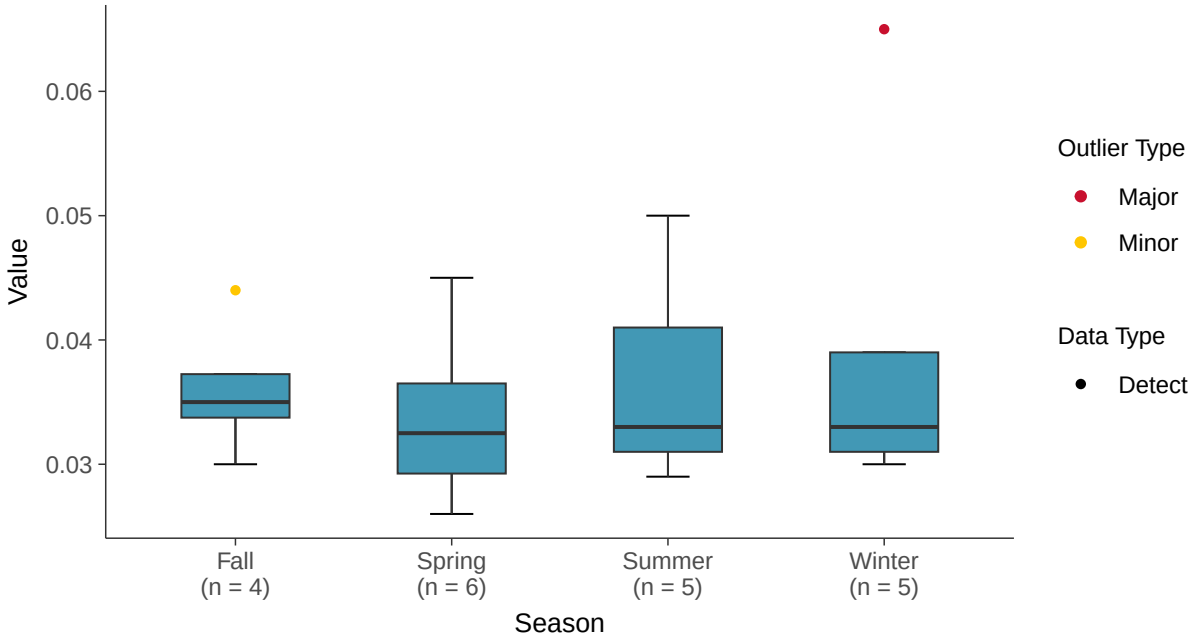
Boxplot

Lithium, MW-03 (mg/L)



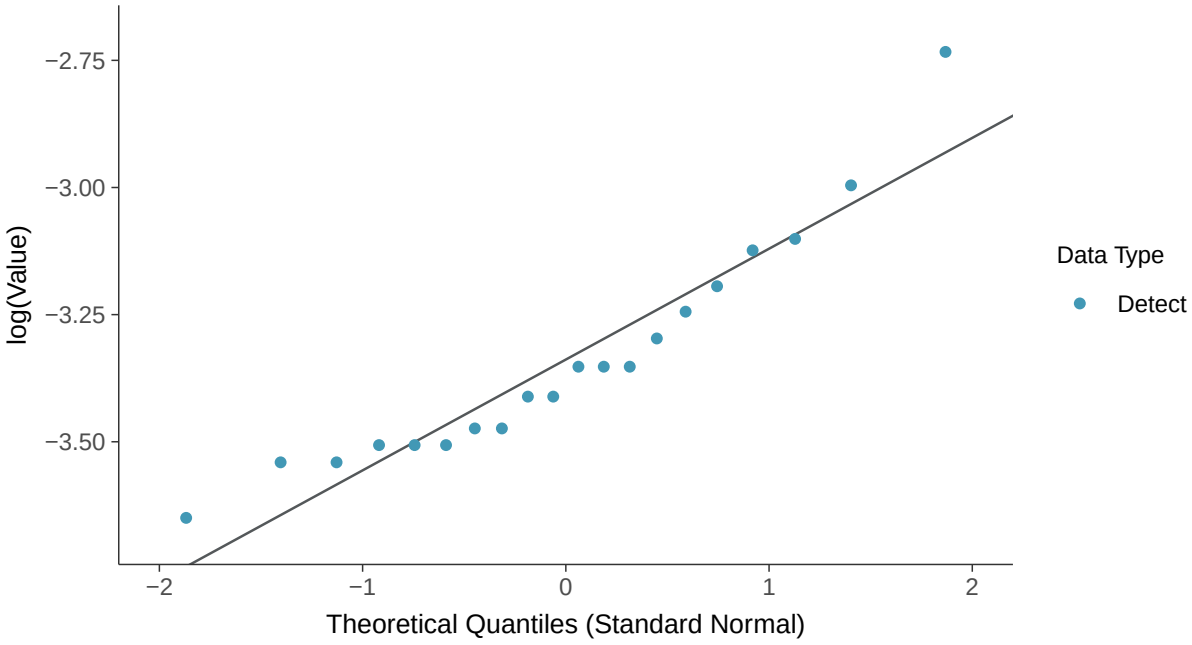
Boxplot by Season

Lithium, MW-03 (mg/L)



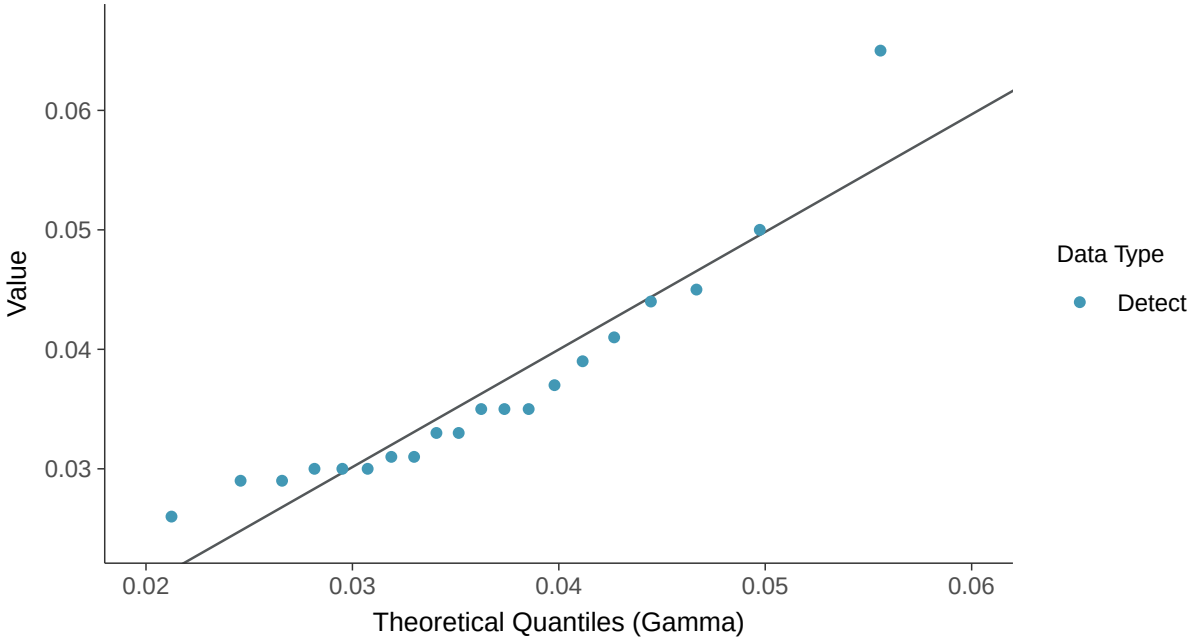
Lognormal Q-Q plot

Lithium, MW-03 (mg/L)



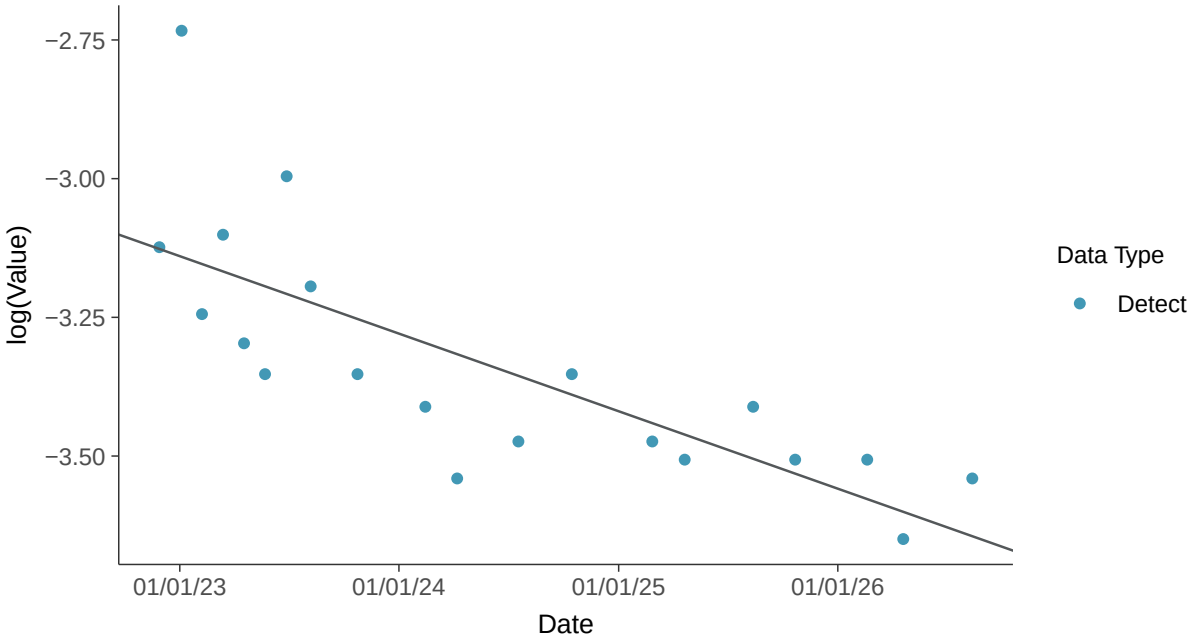
Gamma Q-Q plot

Lithium, MW-03 (mg/L)



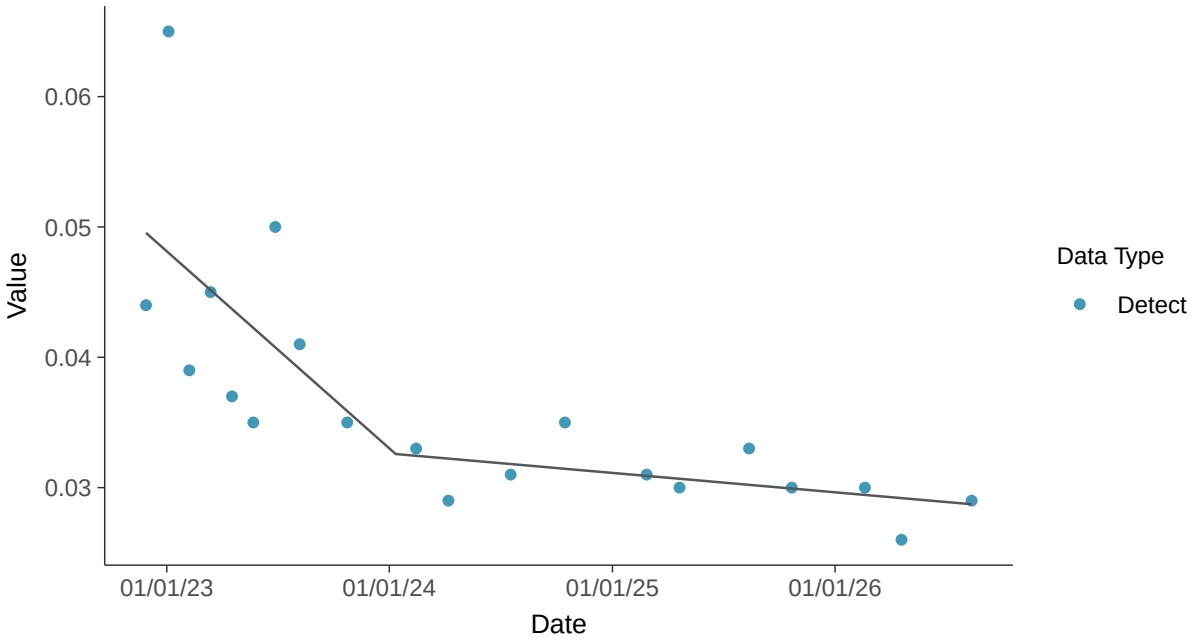
Trend Regression: Lognormal MLE

Lithium, MW-03 (mg/L)



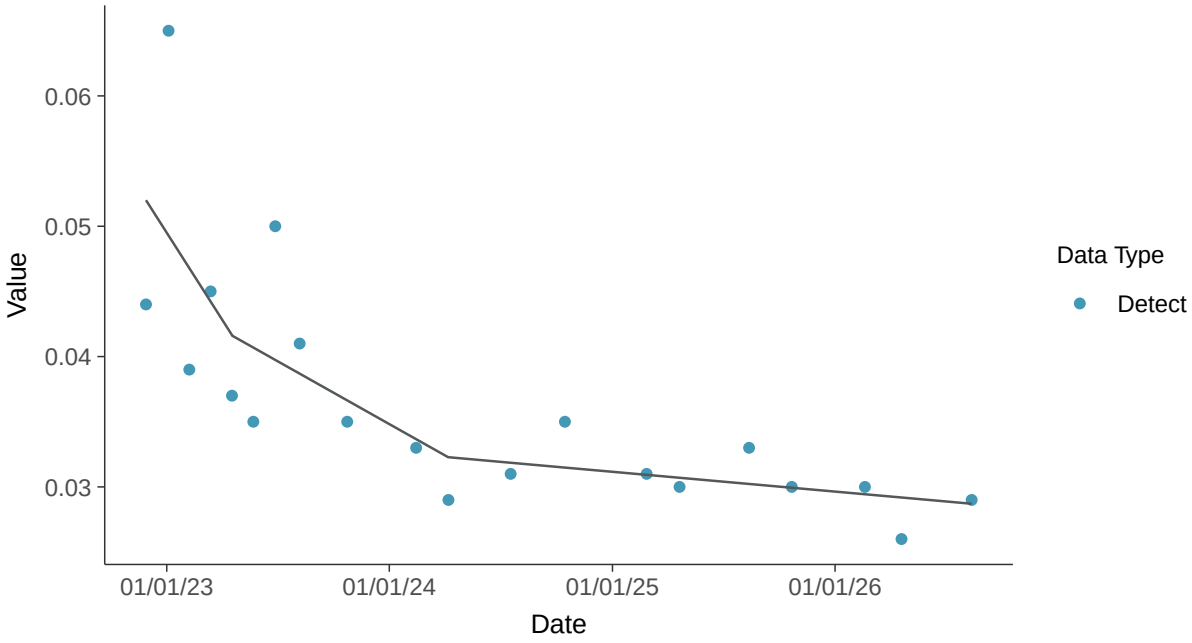
Trend Regression: Piecewise Linear-Linear

Lithium, MW-03 (mg/L)



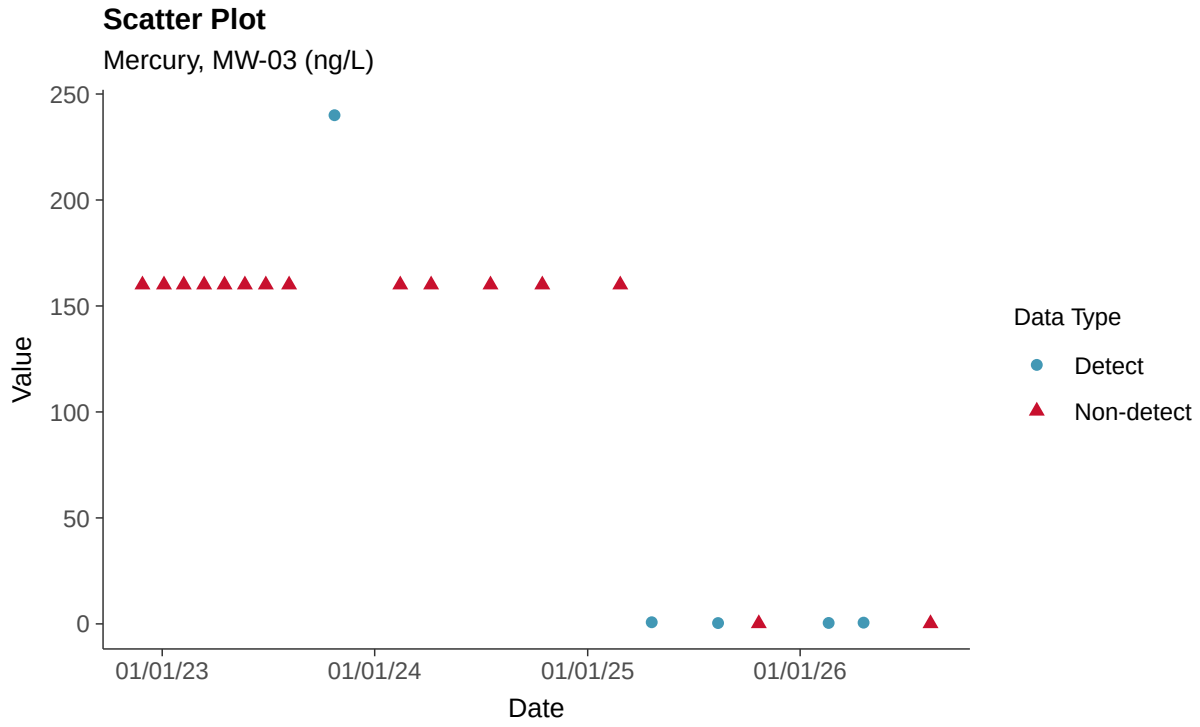
Trend Regression: Piecewise Linear-Linear-Linear

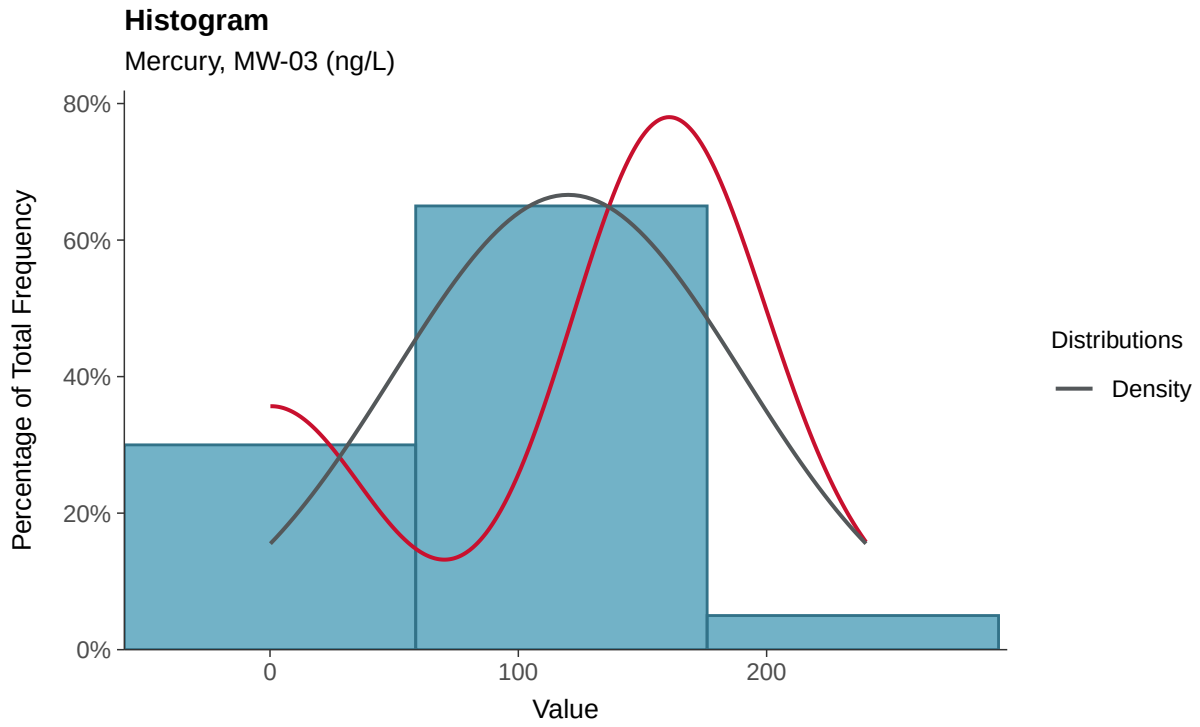
Lithium, MW-03 (mg/L)



Appendix IV: Mercury, MW-03

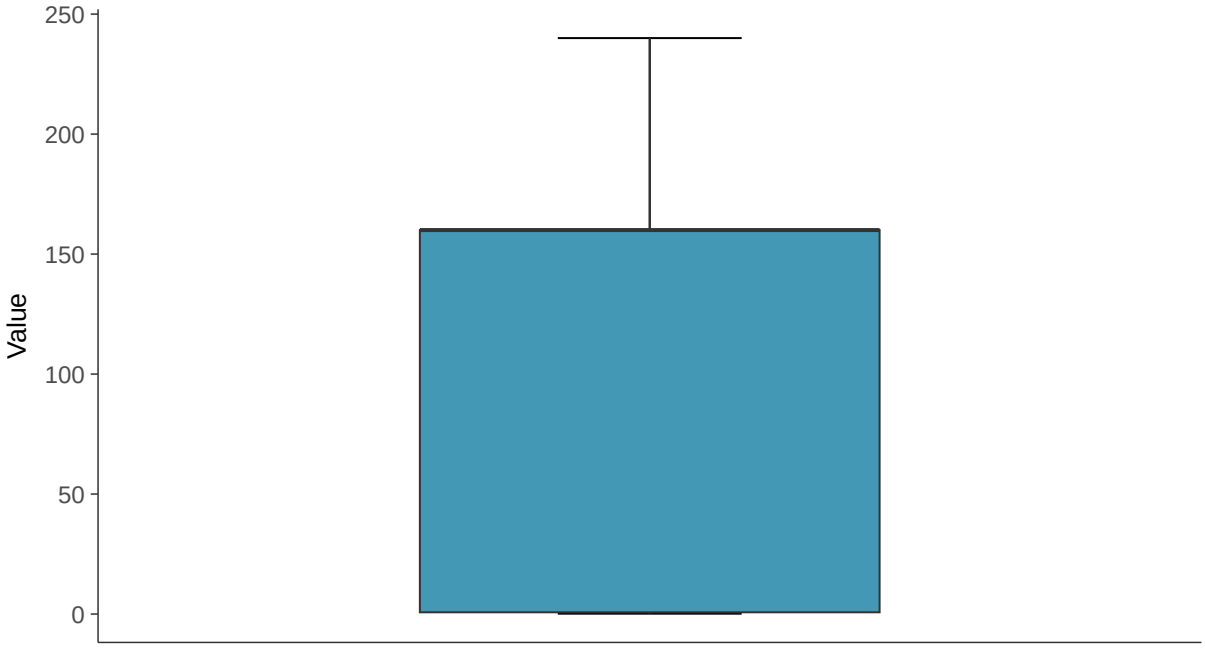
ID: 13_2_4_117





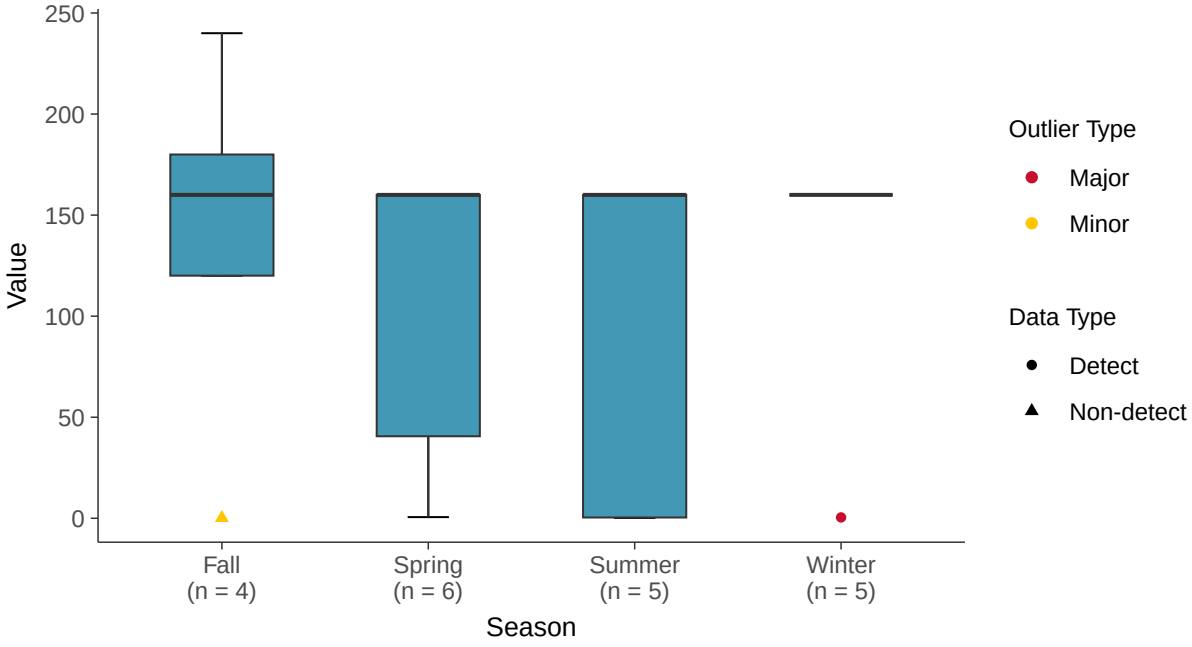
Boxplot

Mercury, MW-03 (ng/L)



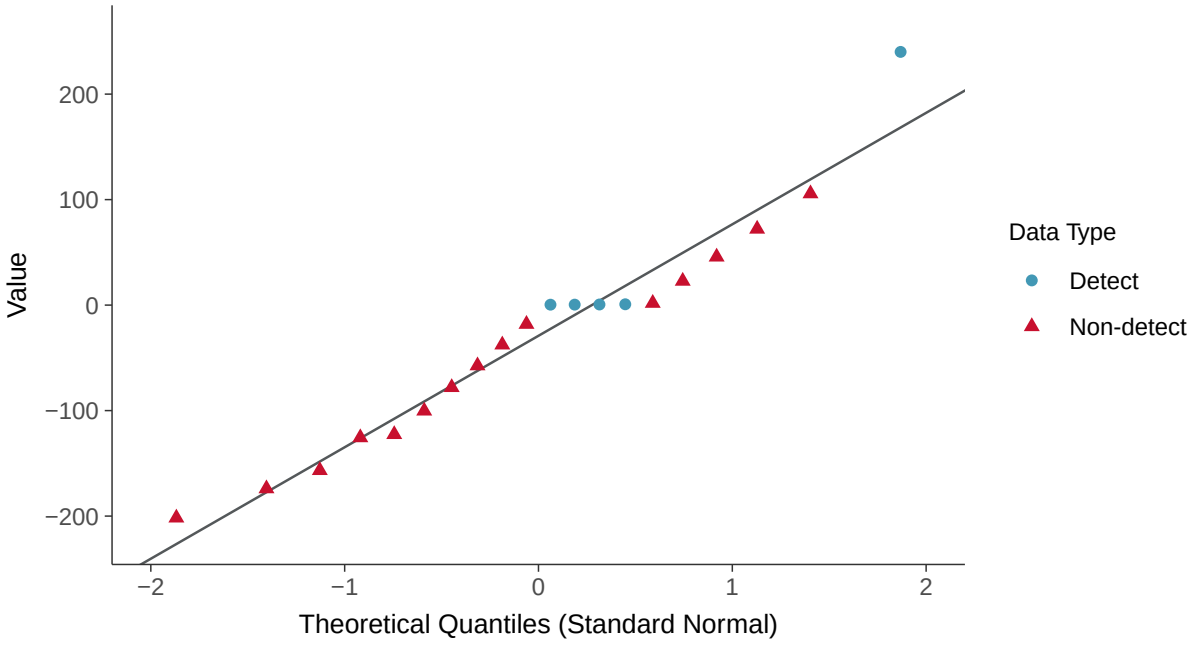
Boxplot by Season

Mercury, MW-03 (ng/L)



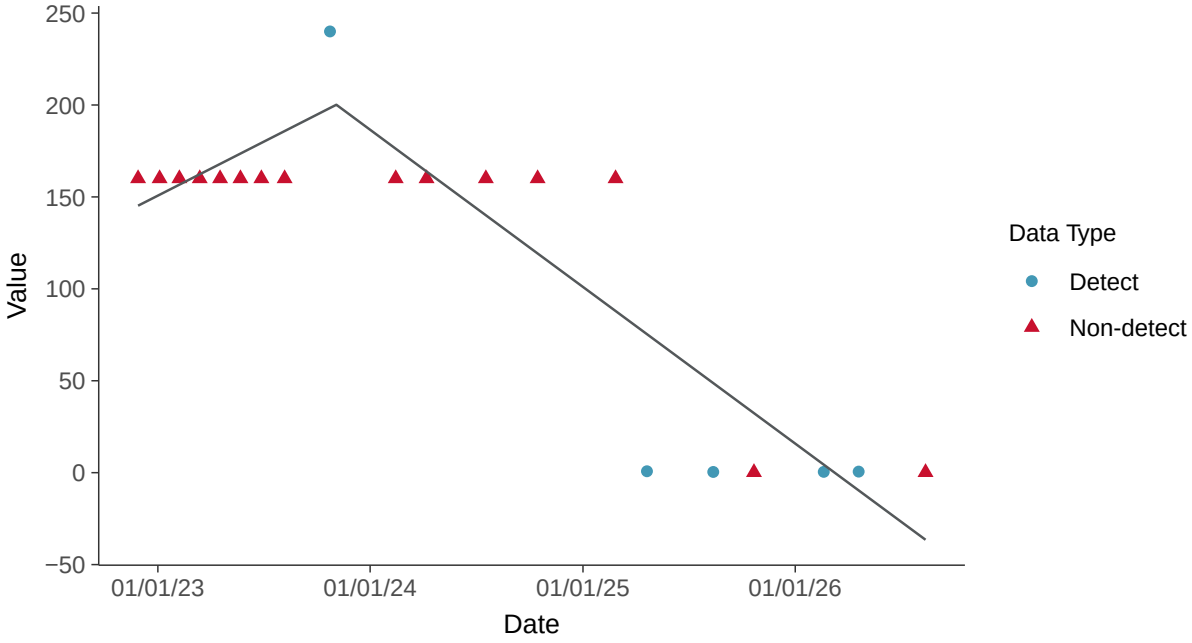
Normal Q-Q plot using ROS Imputed Estimates

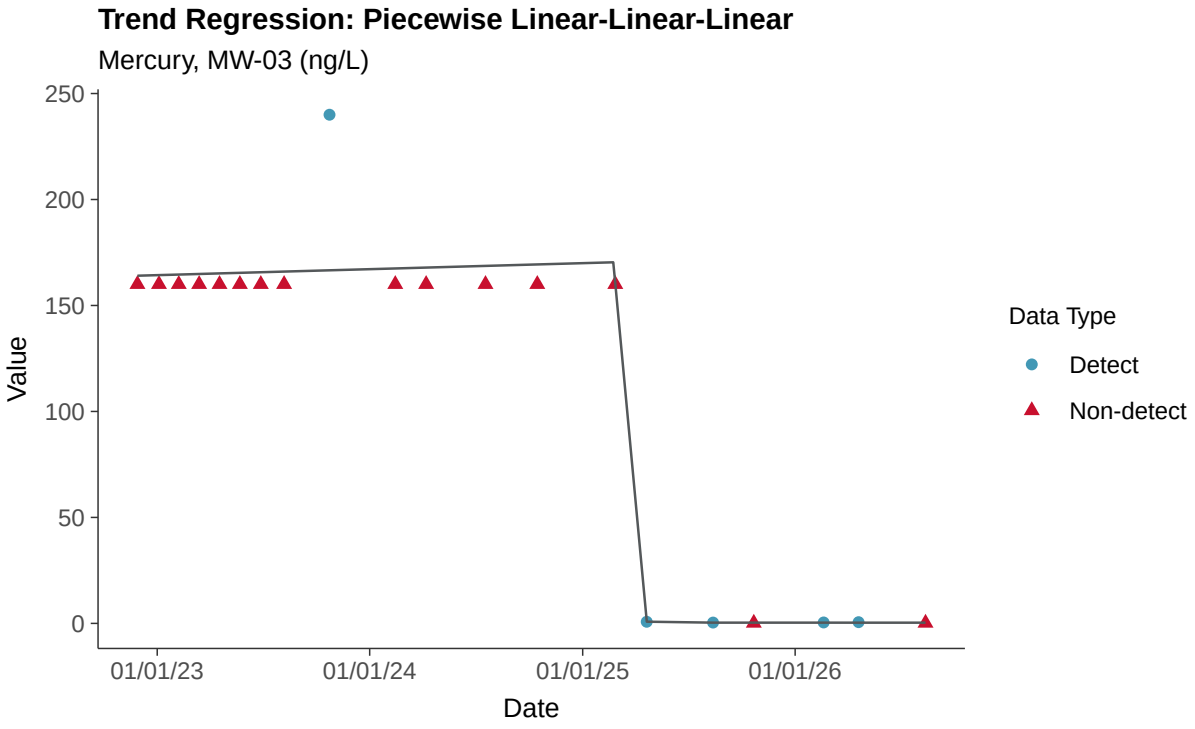
Mercury, MW-03 (ng/L)



Trend Regression: Piecewise Linear-Linear

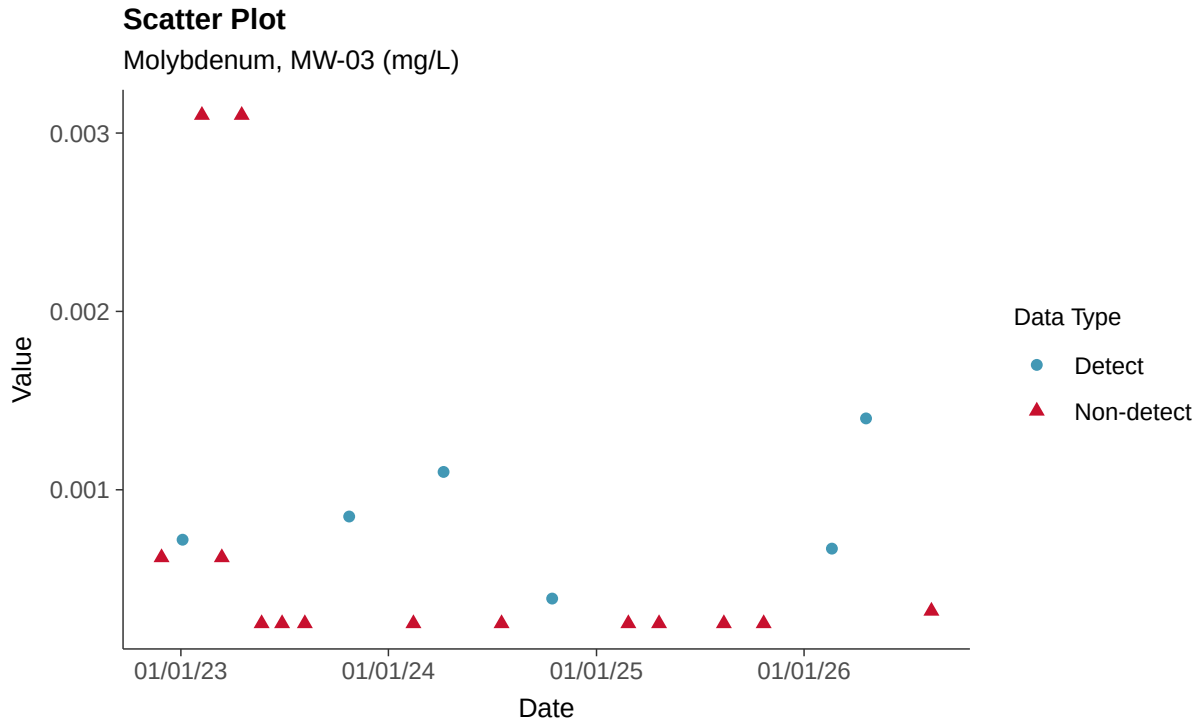
Mercury, MW-03 (ng/L)

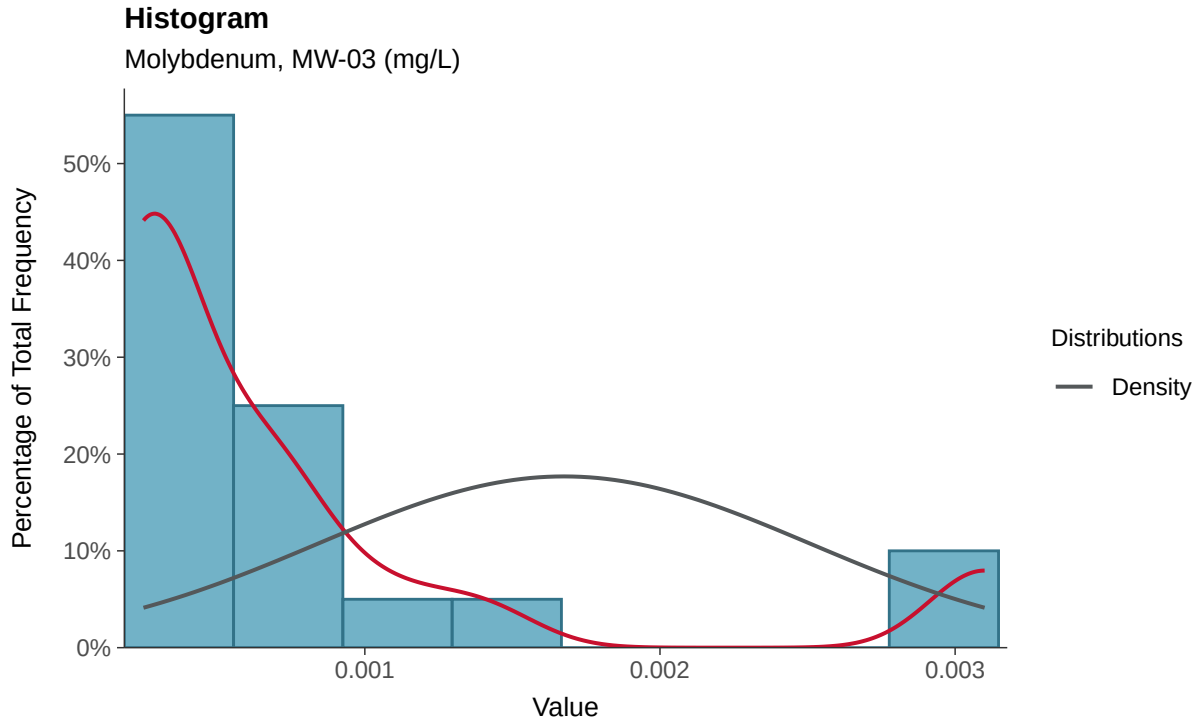



Trend Regression: Piecewise Linear-Linear-Linear
Mercury, MW-03 (ng/L)
Value
250
200
150
100
50
0
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect
Non-detect

Appendix IV: Molybdenum, MW-03

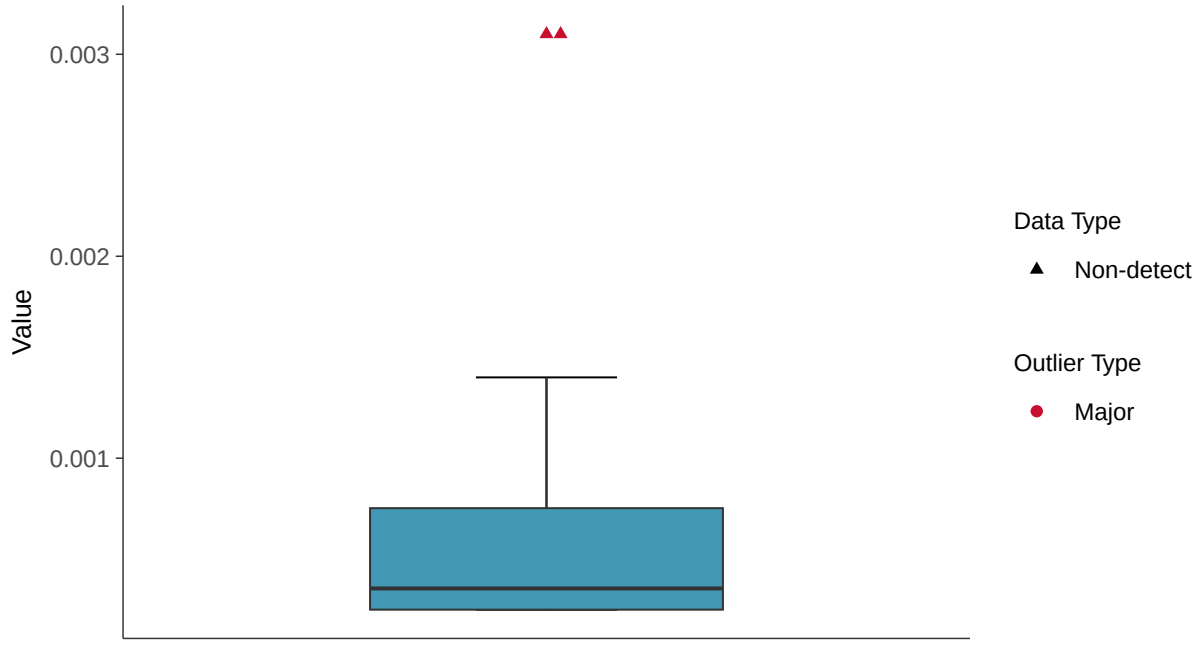
ID: 13_2_4_118





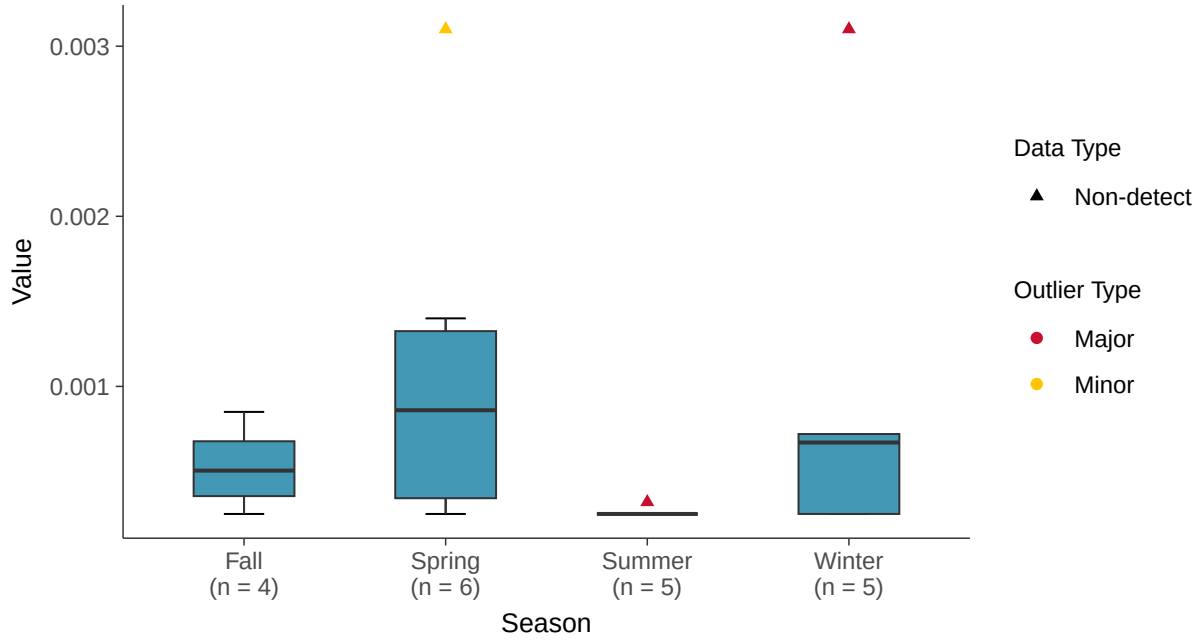
Boxplot

Molybdenum, MW-03 (mg/L)



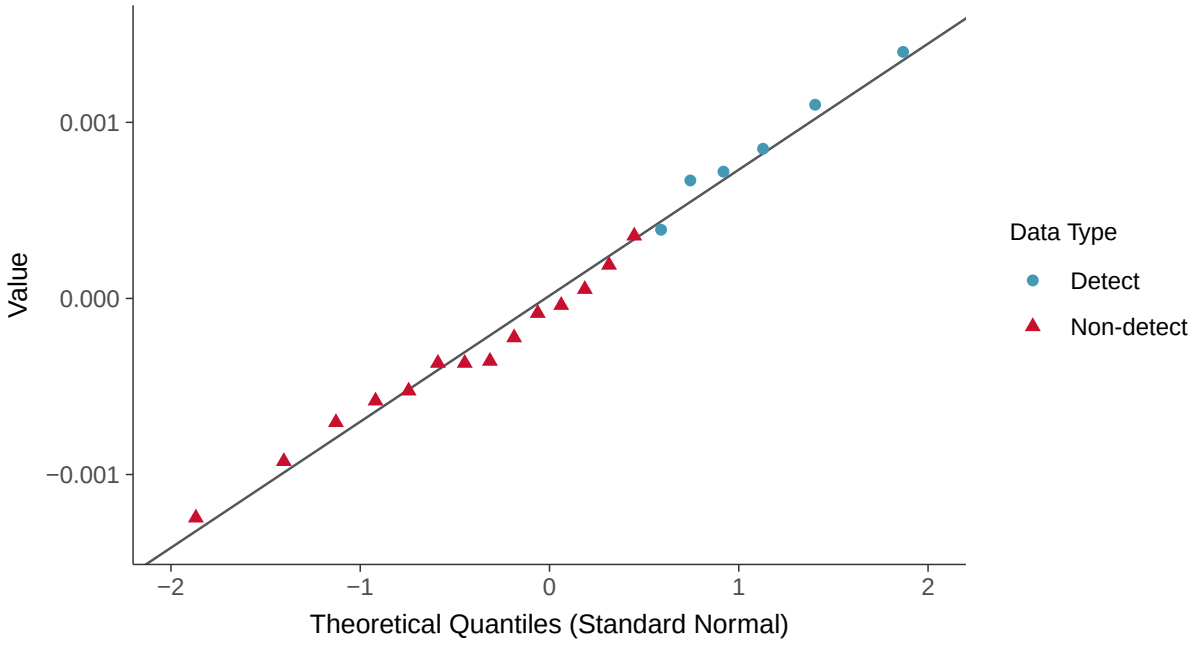
Boxplot by Season

Molybdenum, MW-03 (mg/L)



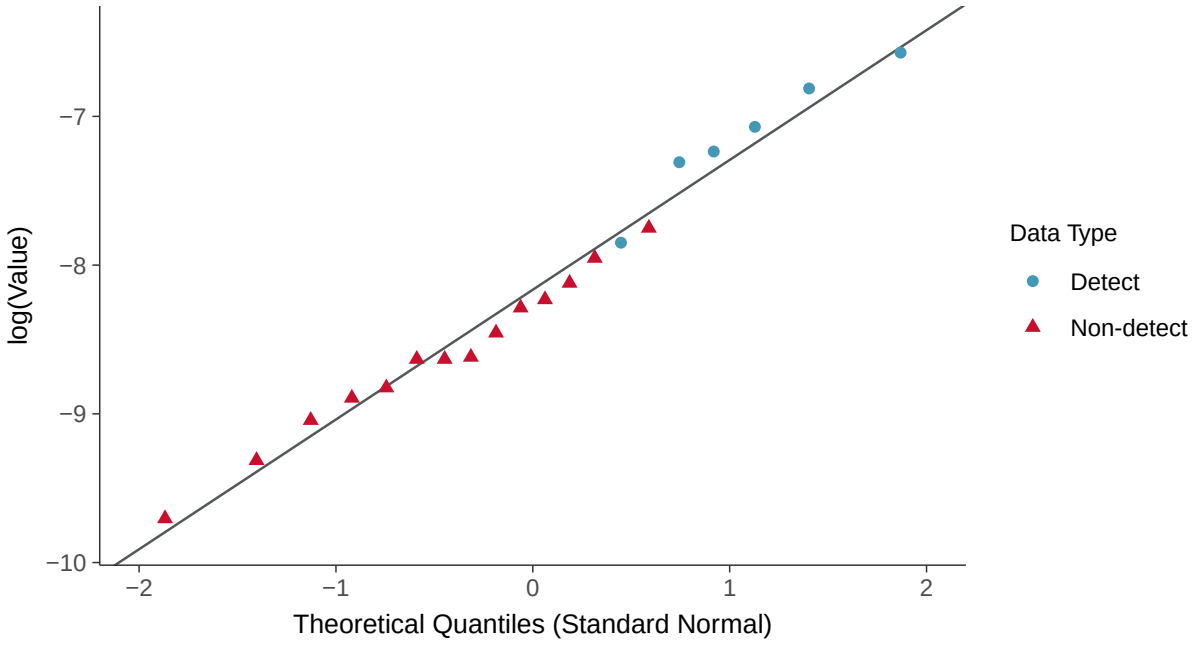
Normal Q-Q plot using ROS Imputed Estimates

Molybdenum, MW-03 (mg/L)



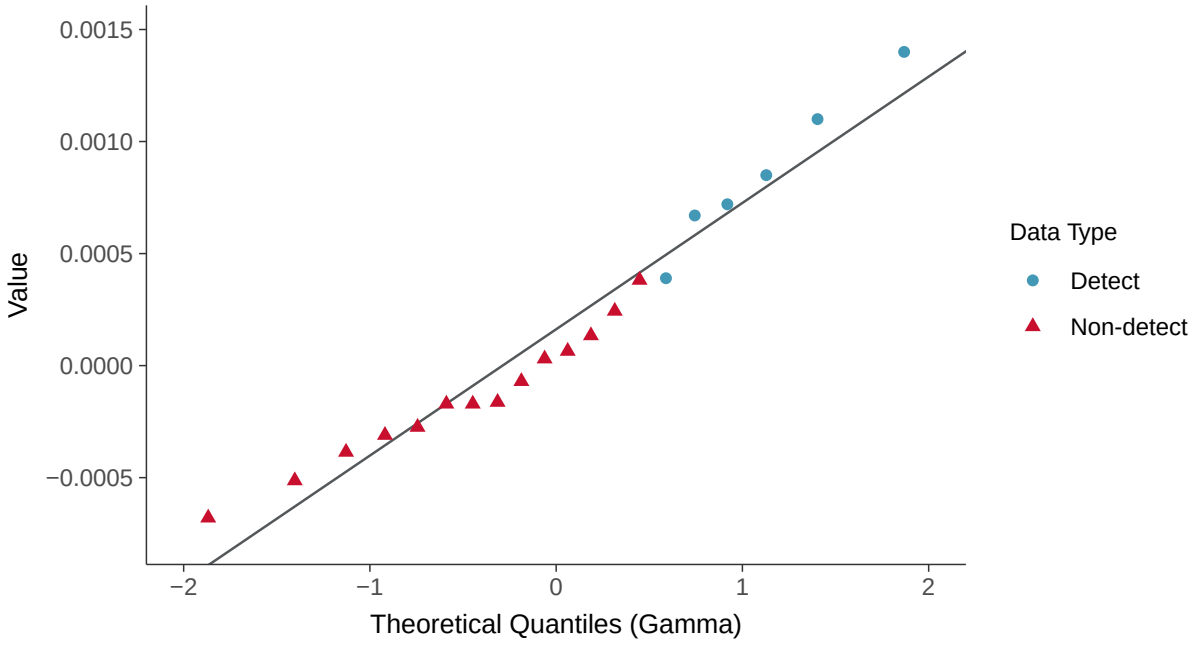
Lognormal Q-Q plot using ROS Imputed Estimates

Molybdenum, MW-03 (mg/L)



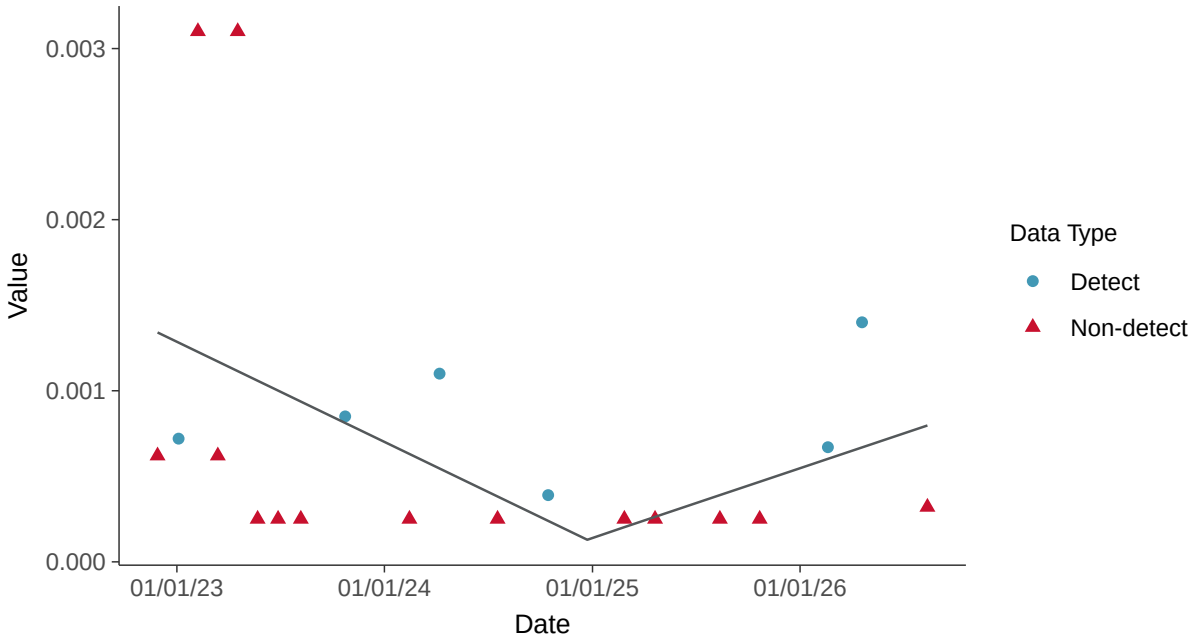
Gamma Q-Q plot using ROS Imputed Estimates

Molybdenum, MW-03 (mg/L)



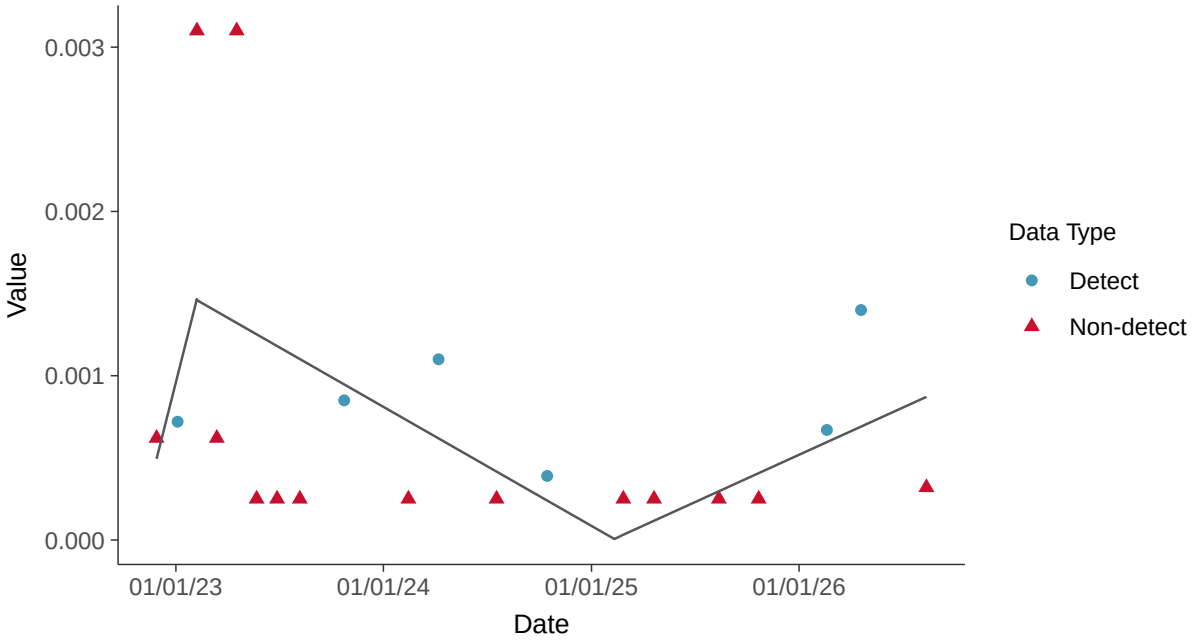
Trend Regression: Piecewise Linear-Linear

Molybdenum, MW-03 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Molybdenum, MW-03 (mg/L)

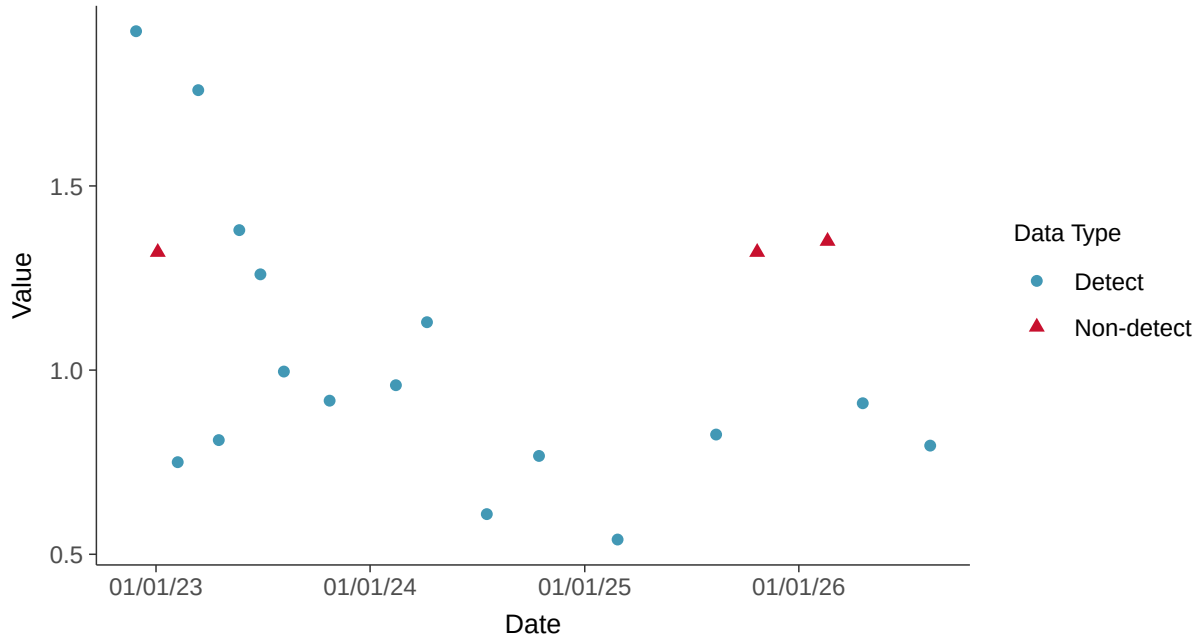


Appendix IV: Radium 226 and 228, MW-03

ID: 13_2_4_121

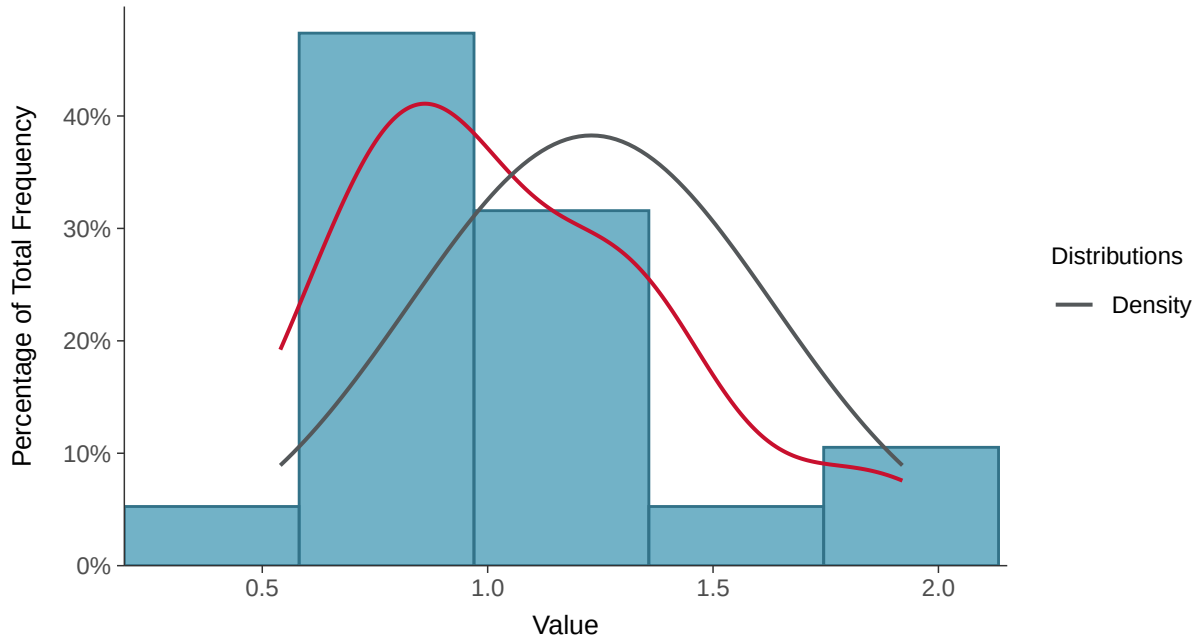
Scatter Plot

Radium 226 and 228, MW-03 (pCi/L)



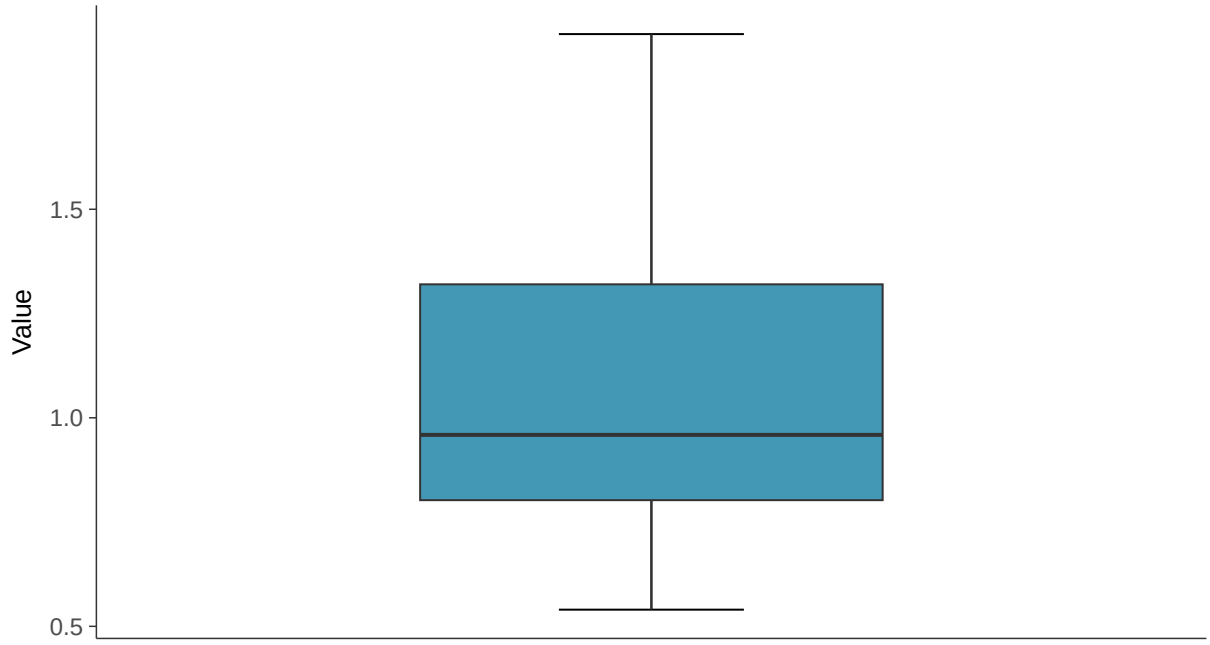
Histogram

Radium 226 and 228, MW-03 (pCi/L)



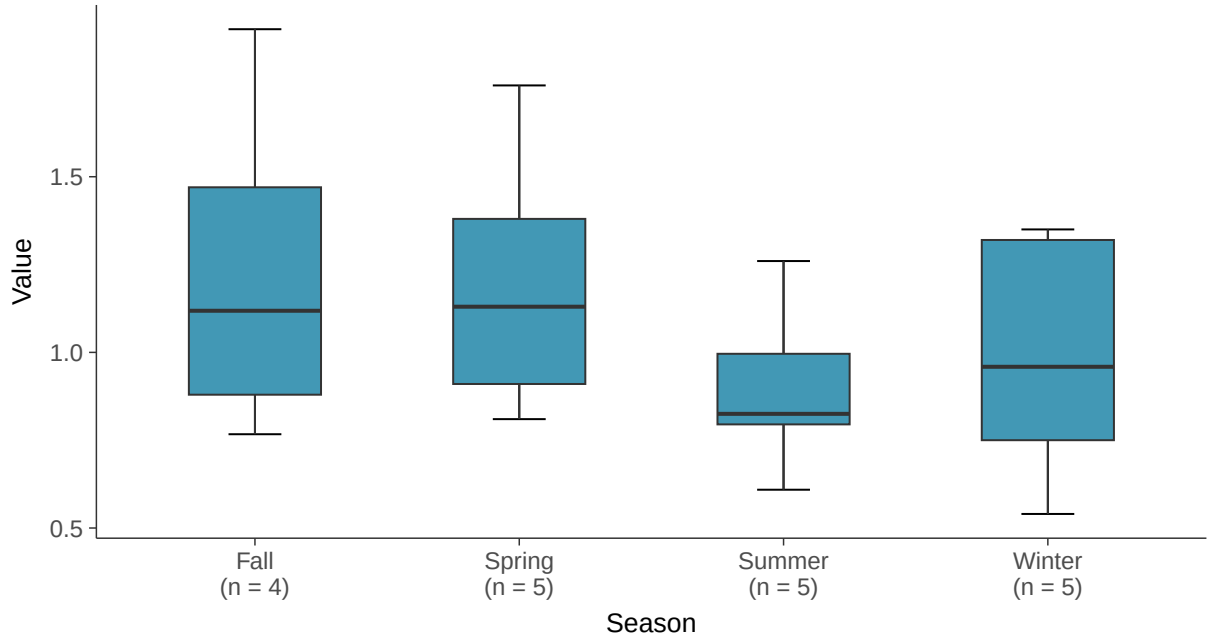
Boxplot

Radium 226 and 228, MW-03 (pCi/L)



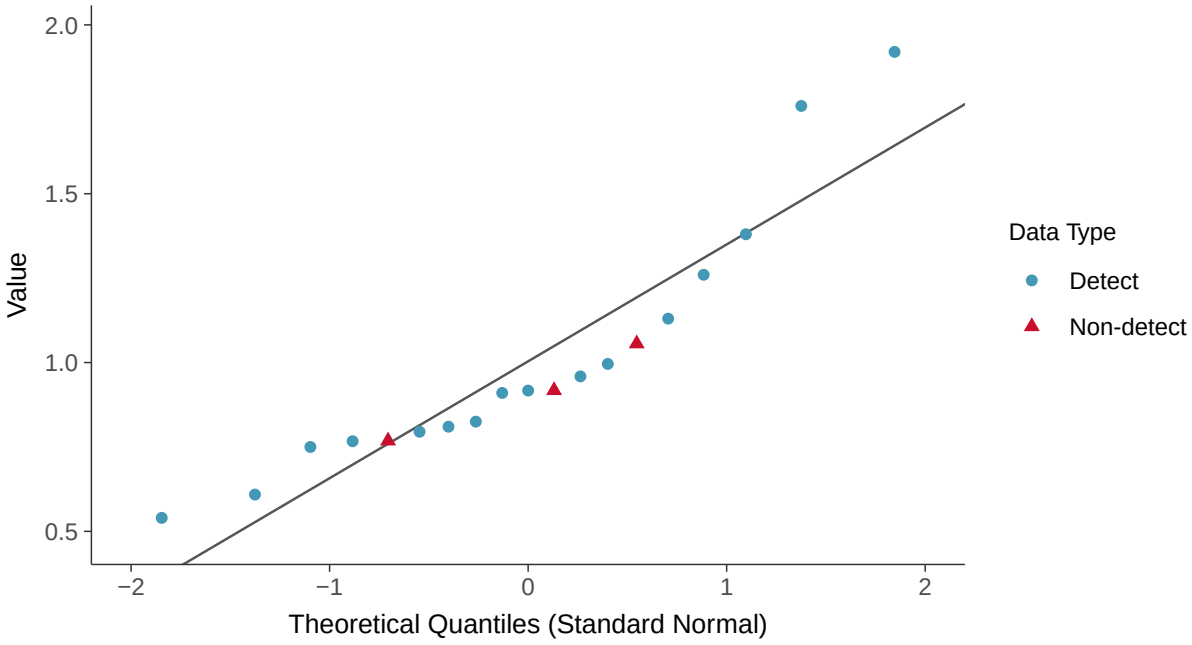
Boxplot by Season

Radium 226 and 228, MW-03 (pCi/L)



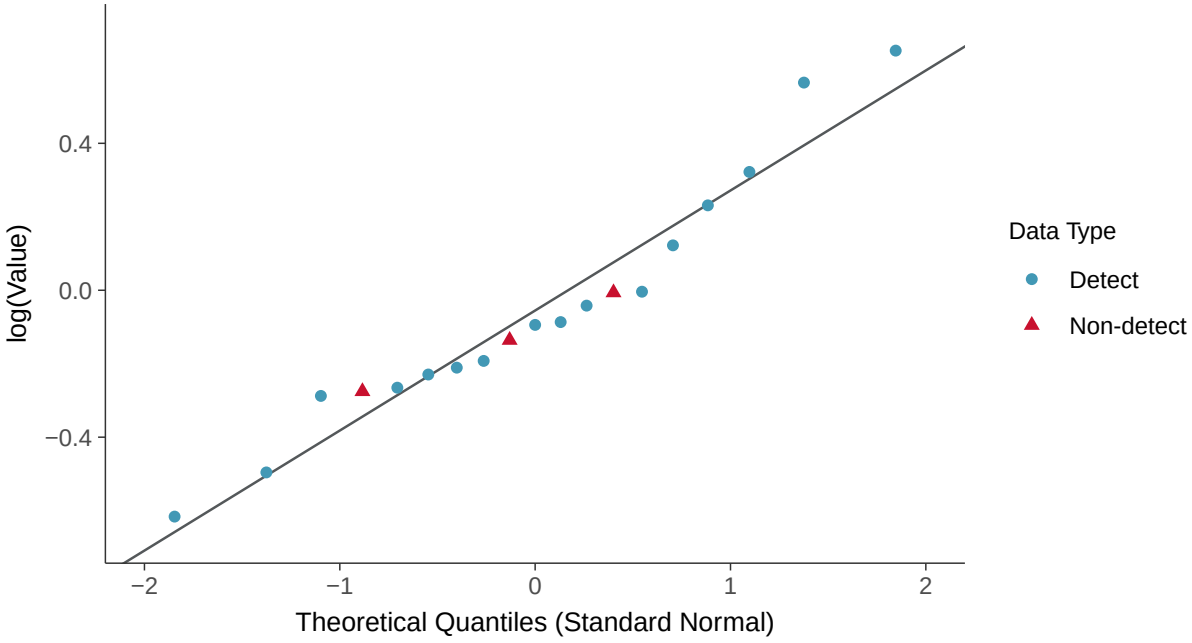
Normal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-03 (pCi/L)



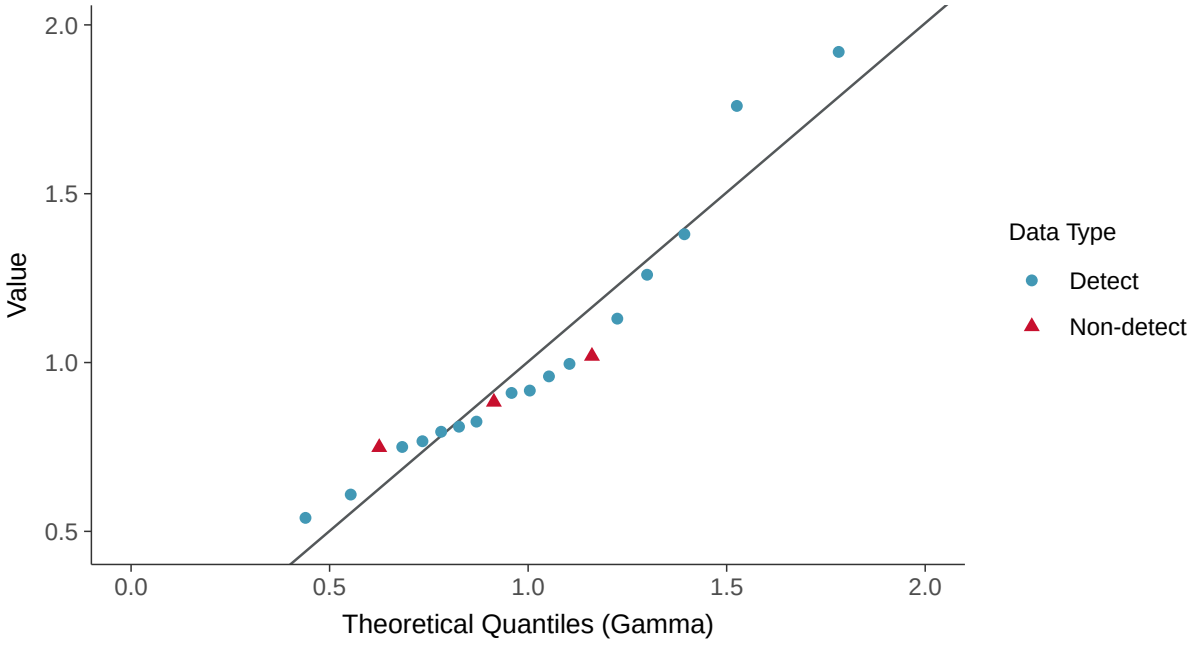
Lognormal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-03 (pCi/L)



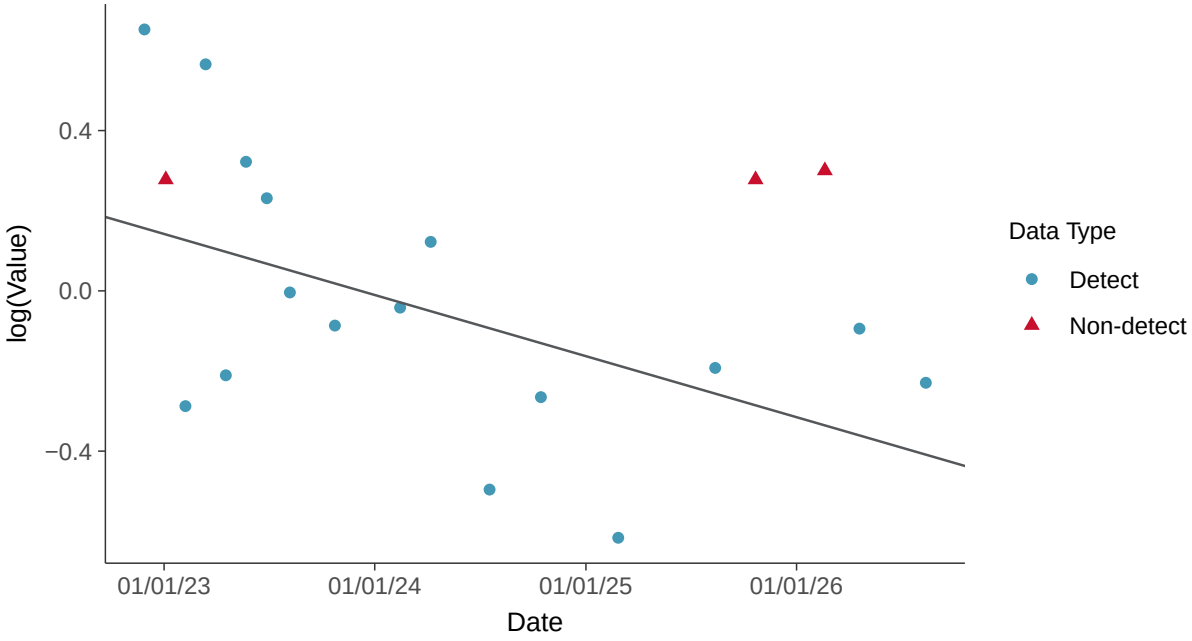
Gamma Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-03 (pCi/L)



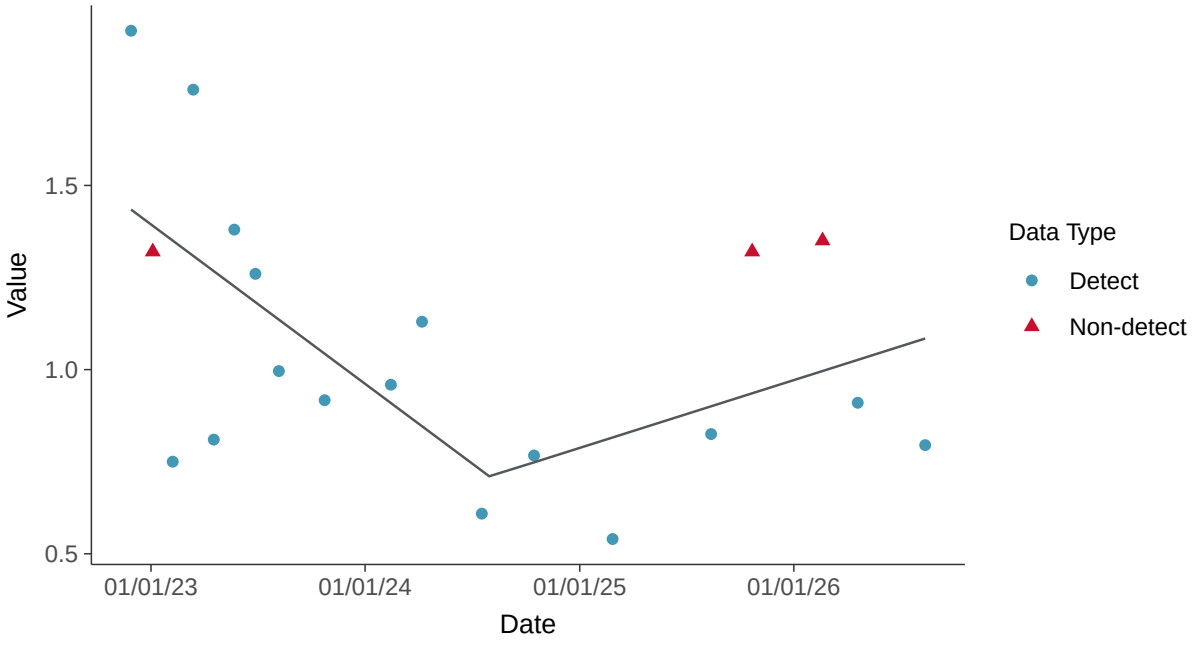
Trend Regression: Lognormal MLE

Radium 226 and 228, MW-03 (pCi/L)



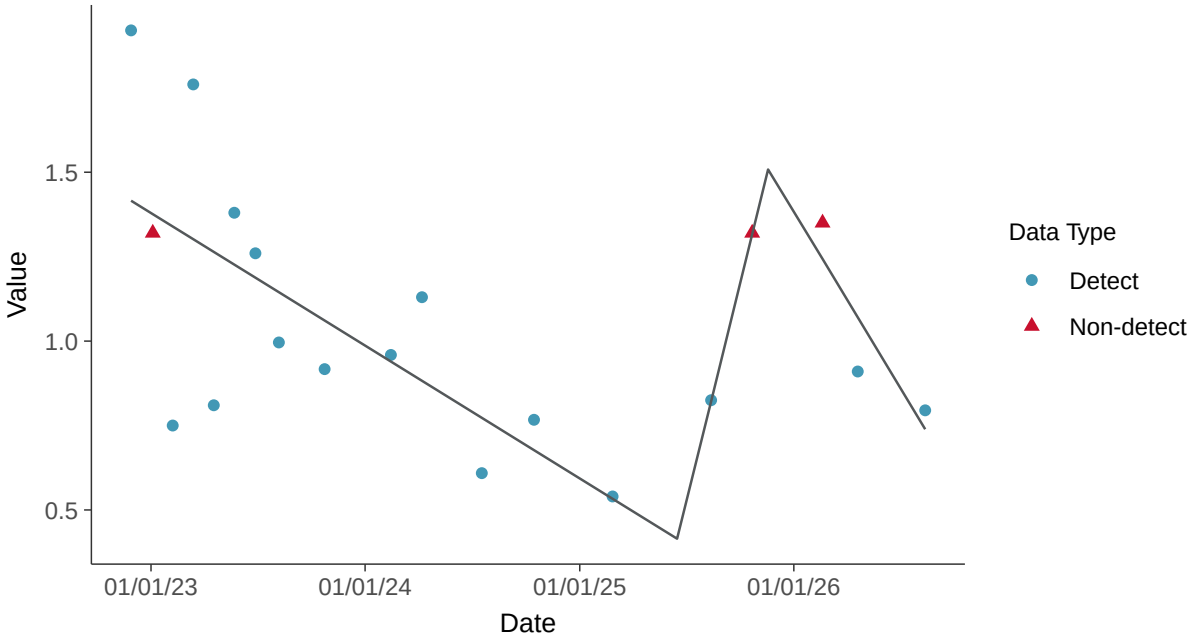
Trend Regression: Piecewise Linear-Linear

Radium 226 and 228, MW-03 (pCi/L)



Trend Regression: Piecewise Linear-Linear-Linear

Radium 226 and 228, MW-03 (pCi/L)

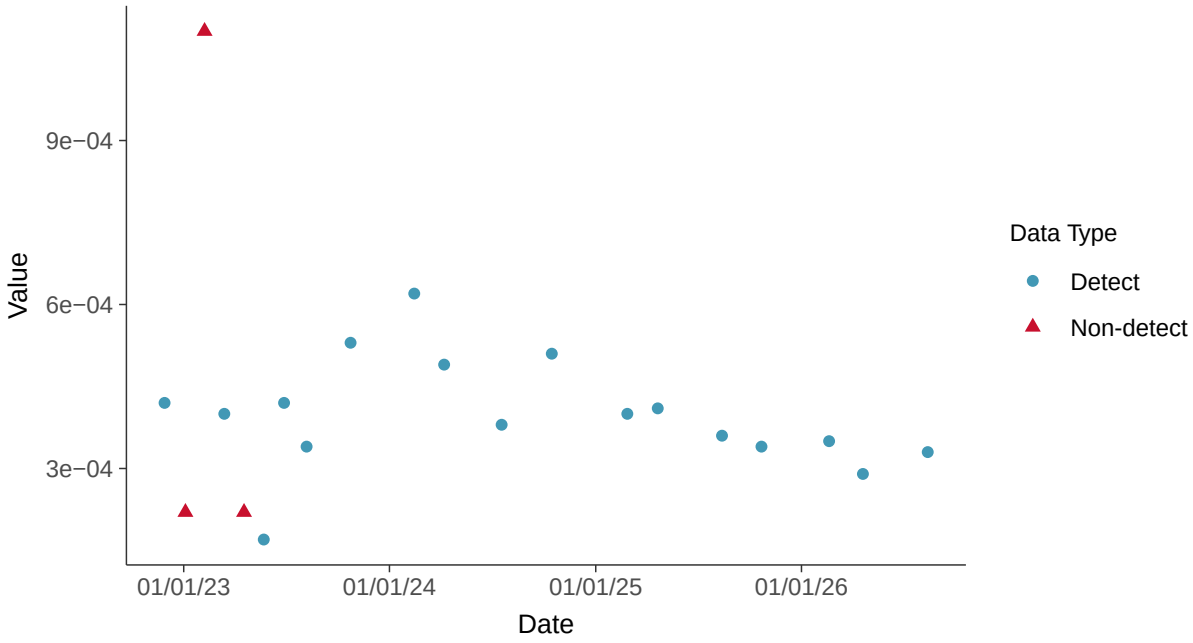


Appendix IV: Selenium, MW-03

ID: 13_2_4_122

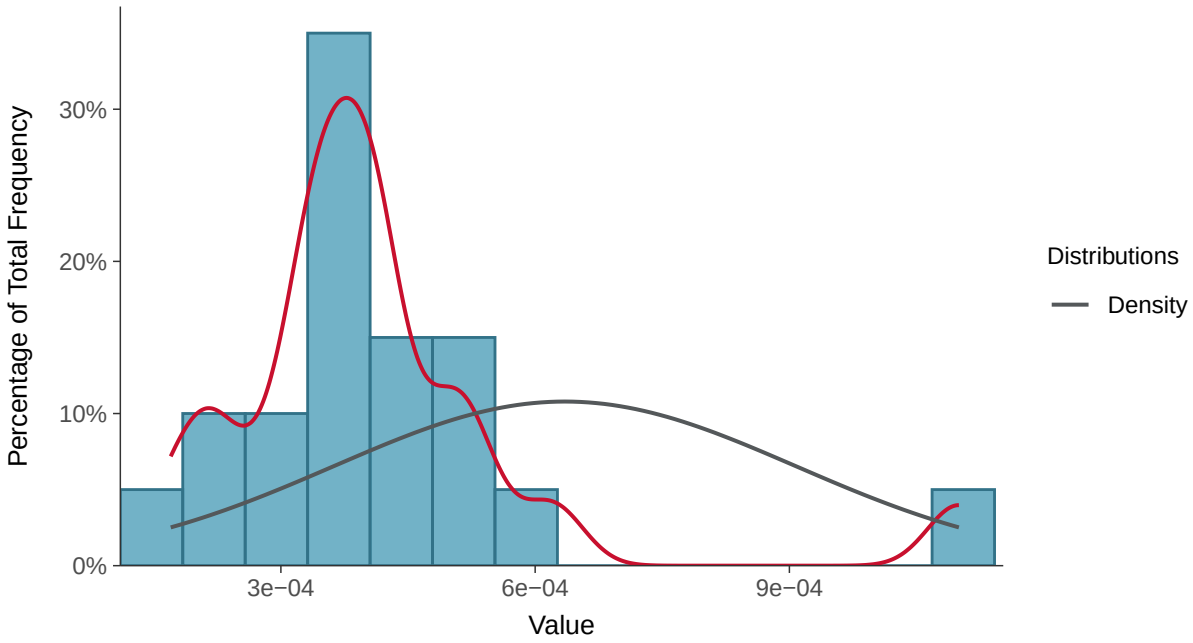
Scatter Plot

Selenium, MW-03 (mg/L)



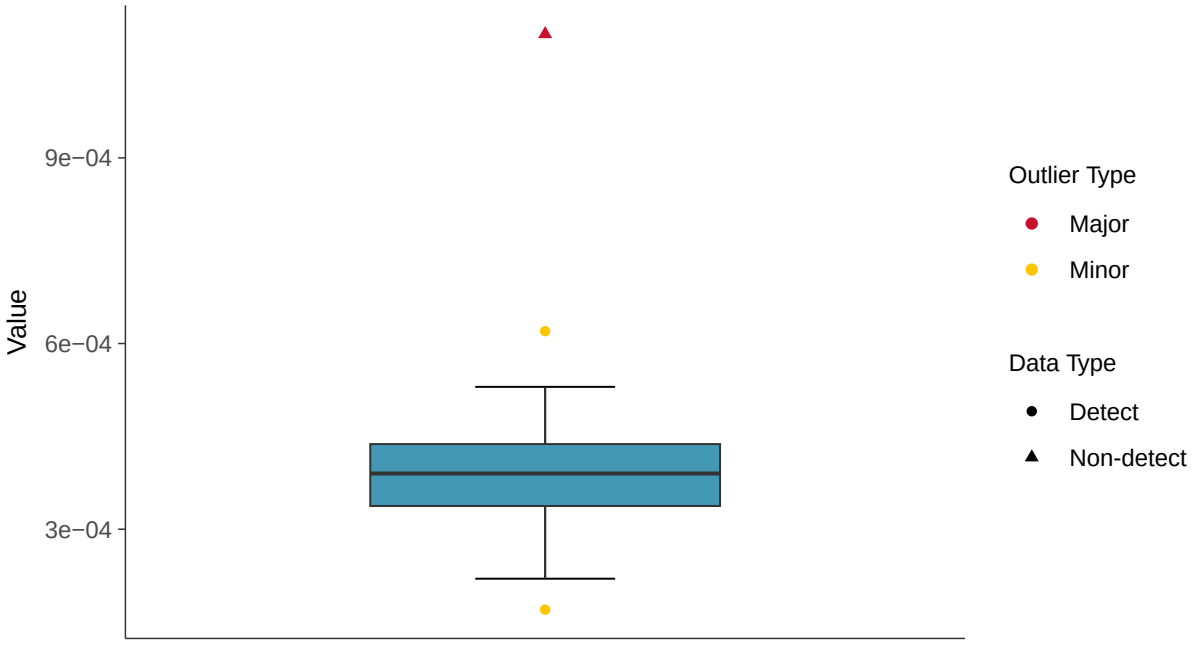
Histogram

Selenium, MW-03 (mg/L)



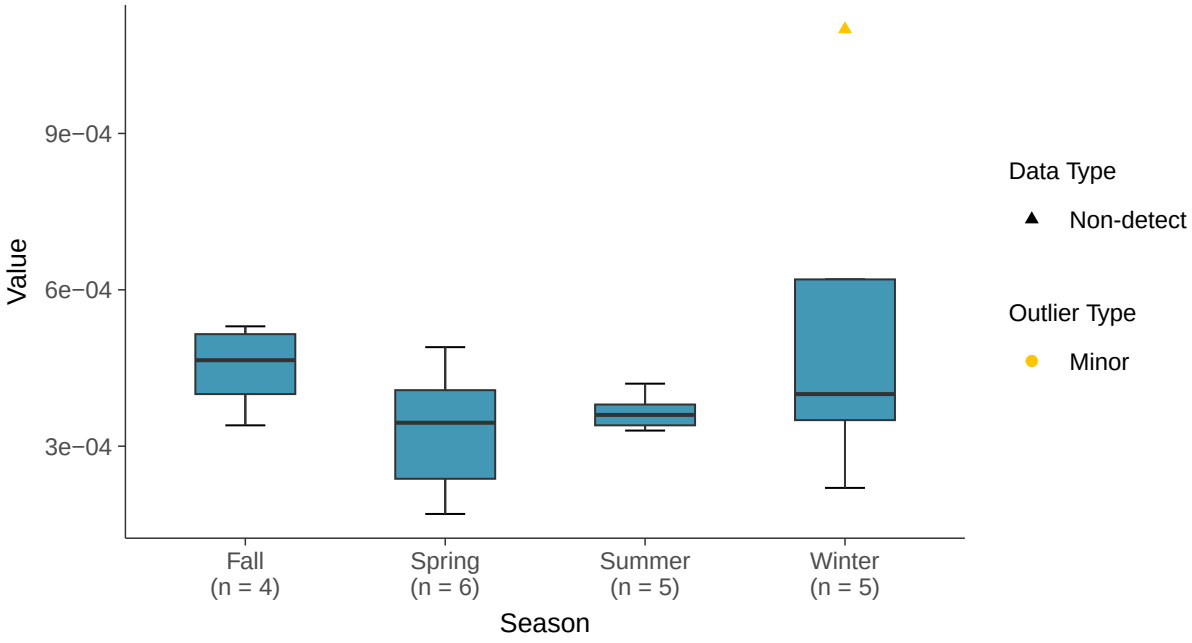
Boxplot

Selenium, MW-03 (mg/L)



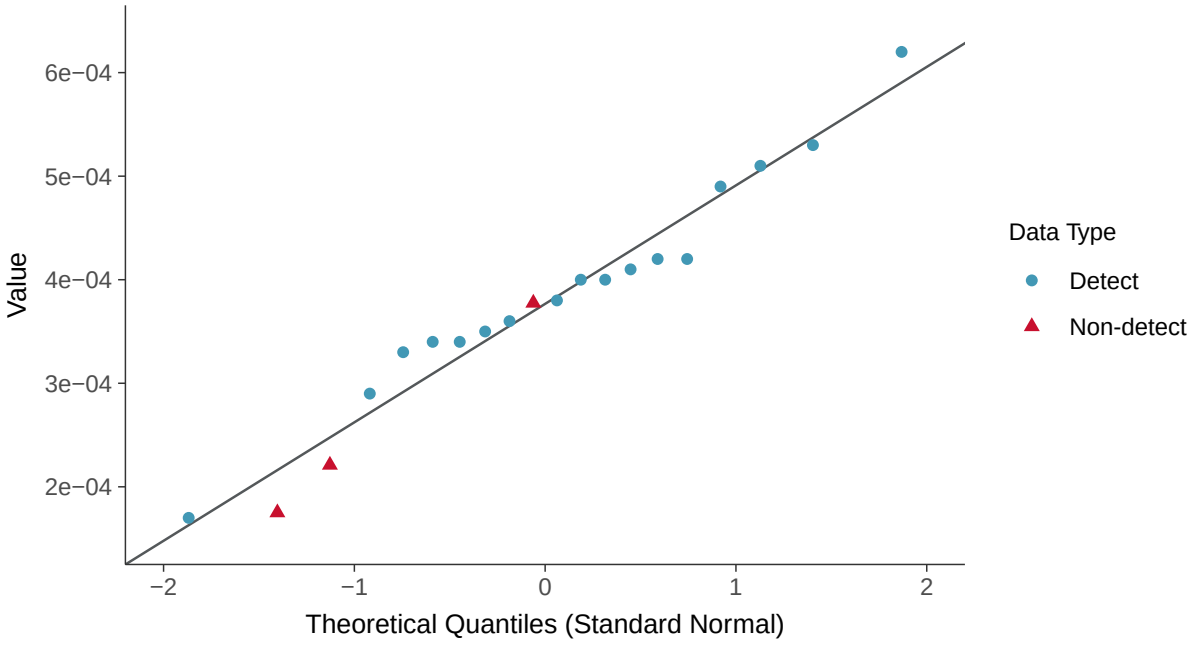
Boxplot by Season

Selenium, MW-03 (mg/L)



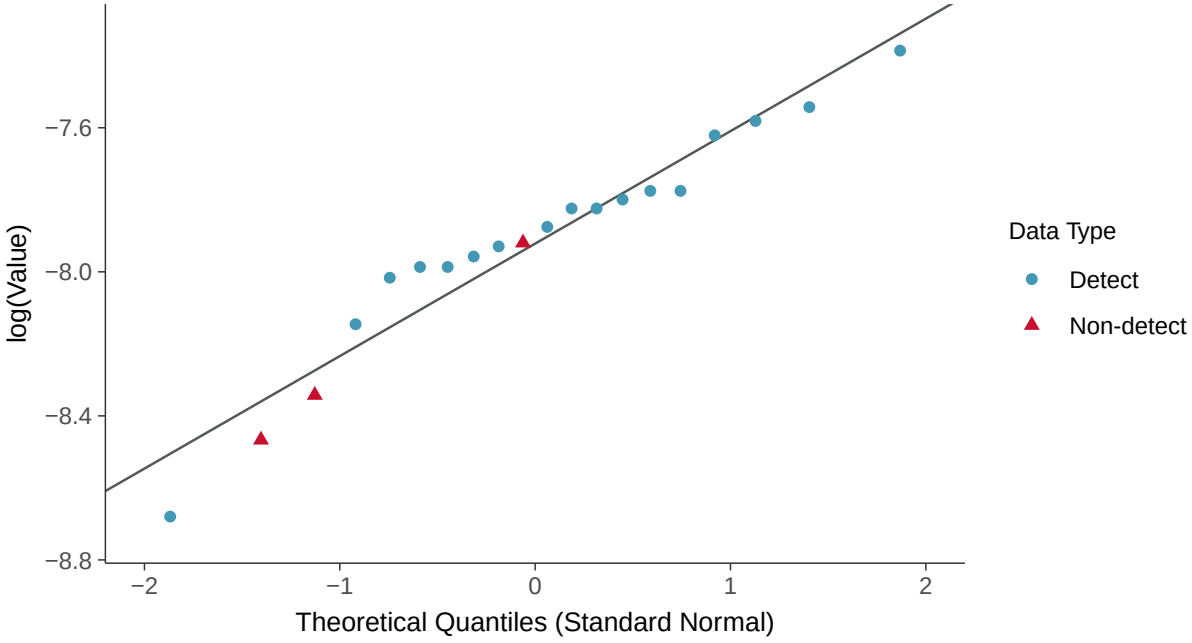
Normal Q-Q plot using ROS Imputed Estimates

Selenium, MW-03 (mg/L)



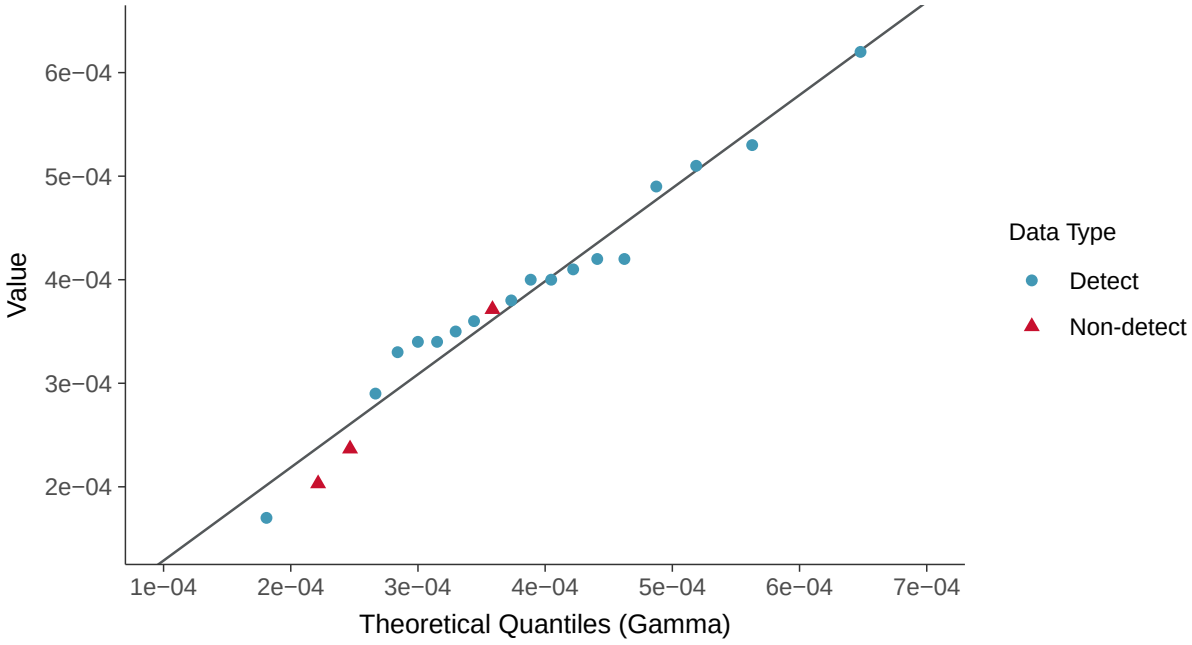
Lognormal Q-Q plot using ROS Imputed Estimates

Selenium, MW-03 (mg/L)



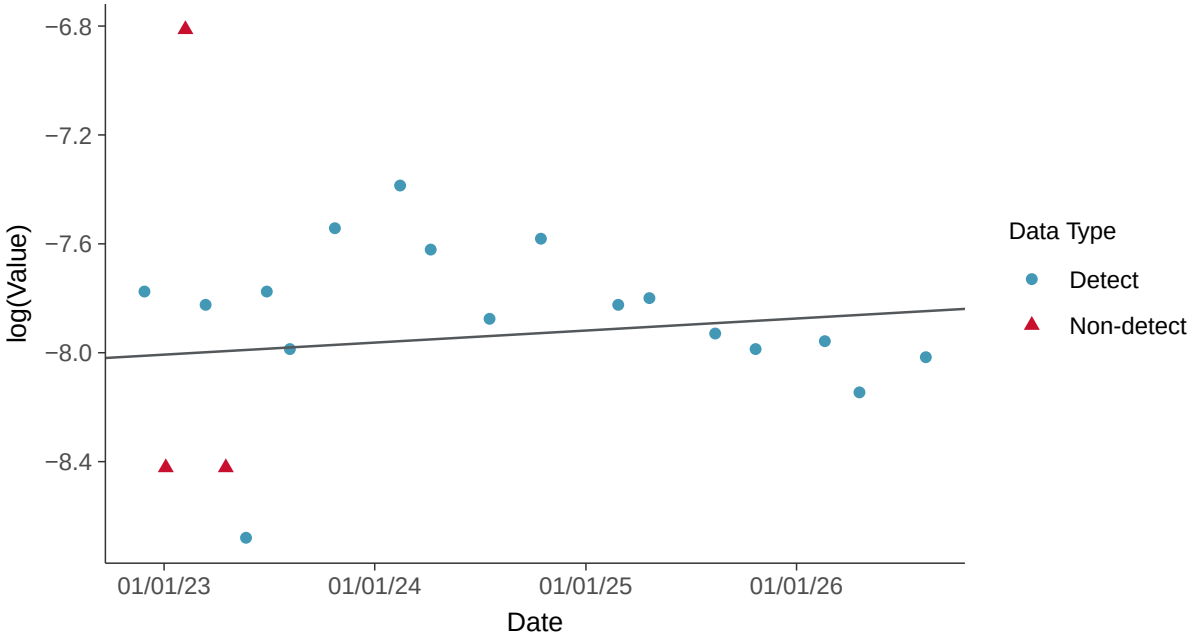
Gamma Q-Q plot using ROS Imputed Estimates

Selenium, MW-03 (mg/L)



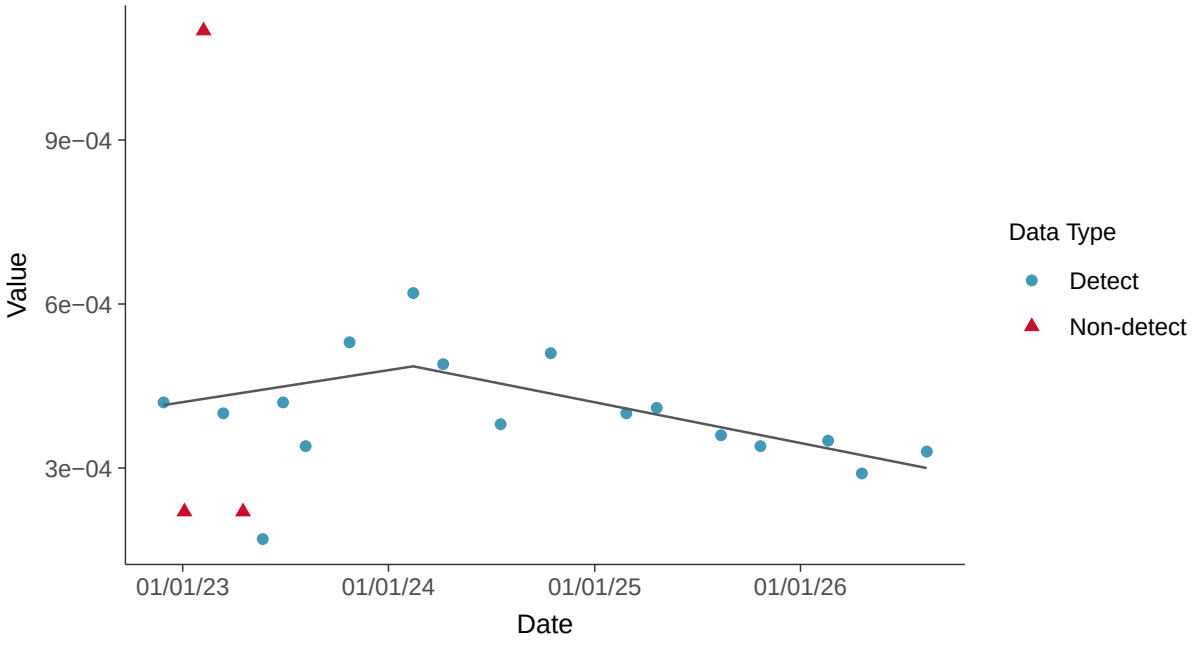
Trend Regression: Lognormal MLE

Selenium, MW-03 (mg/L)



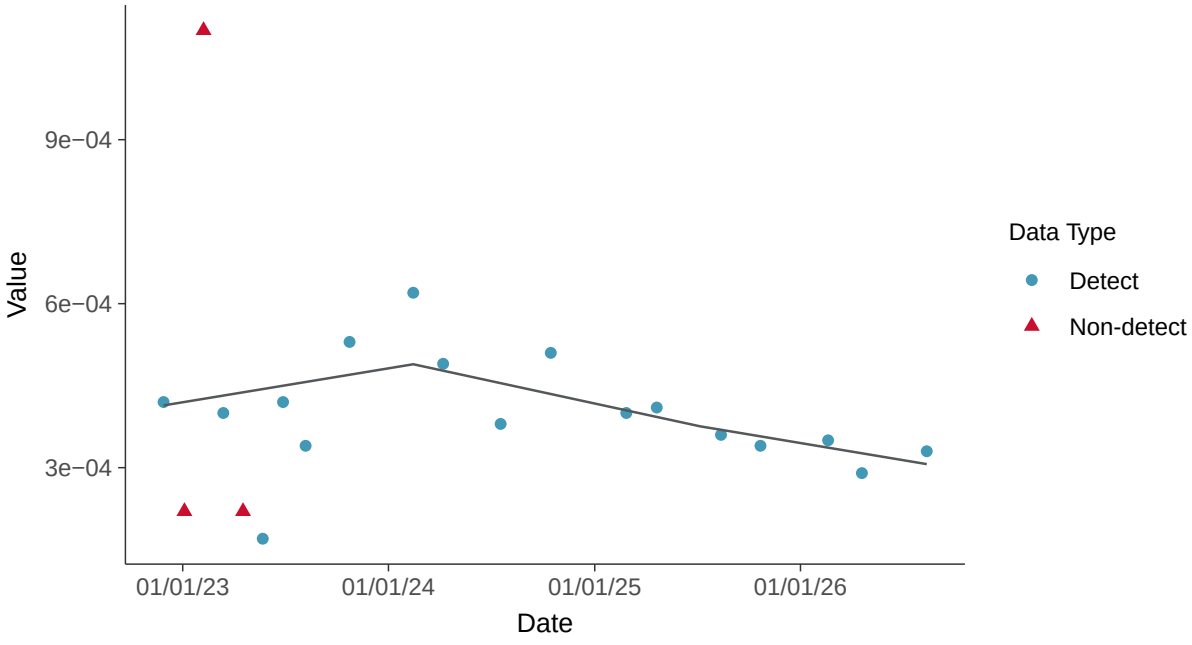
Trend Regression: Piecewise Linear-Linear

Selenium, MW-03 (mg/L)



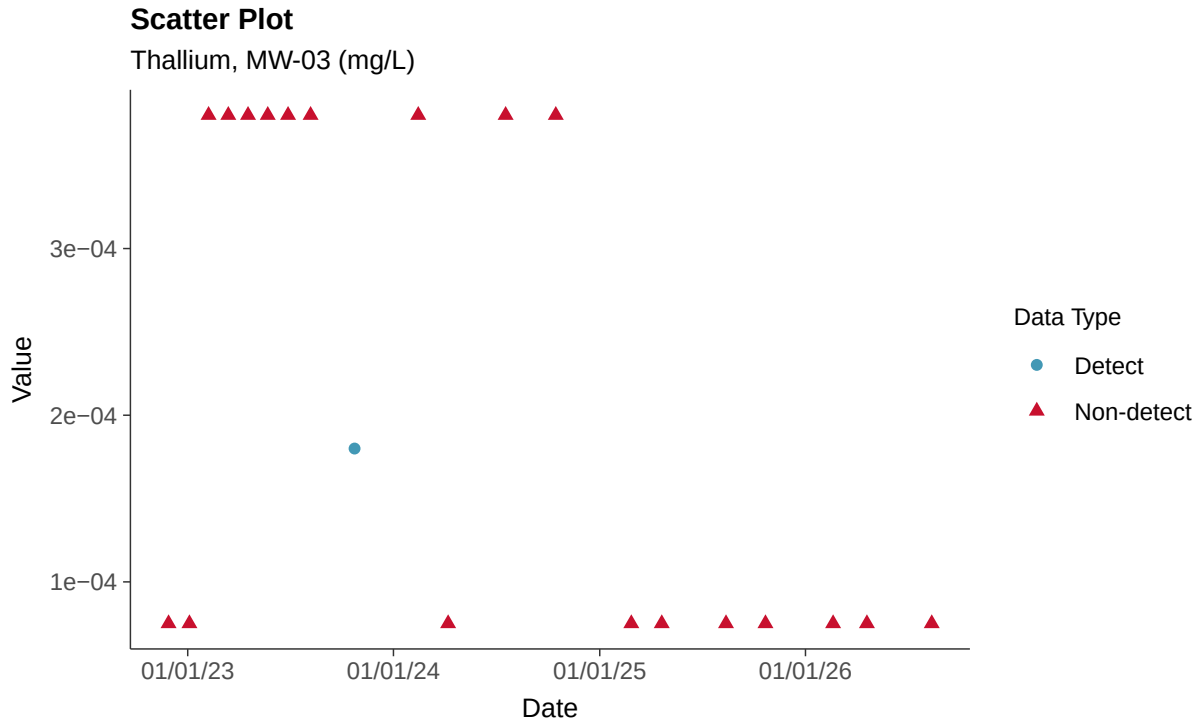
Trend Regression: Piecewise Linear-Linear-Linear

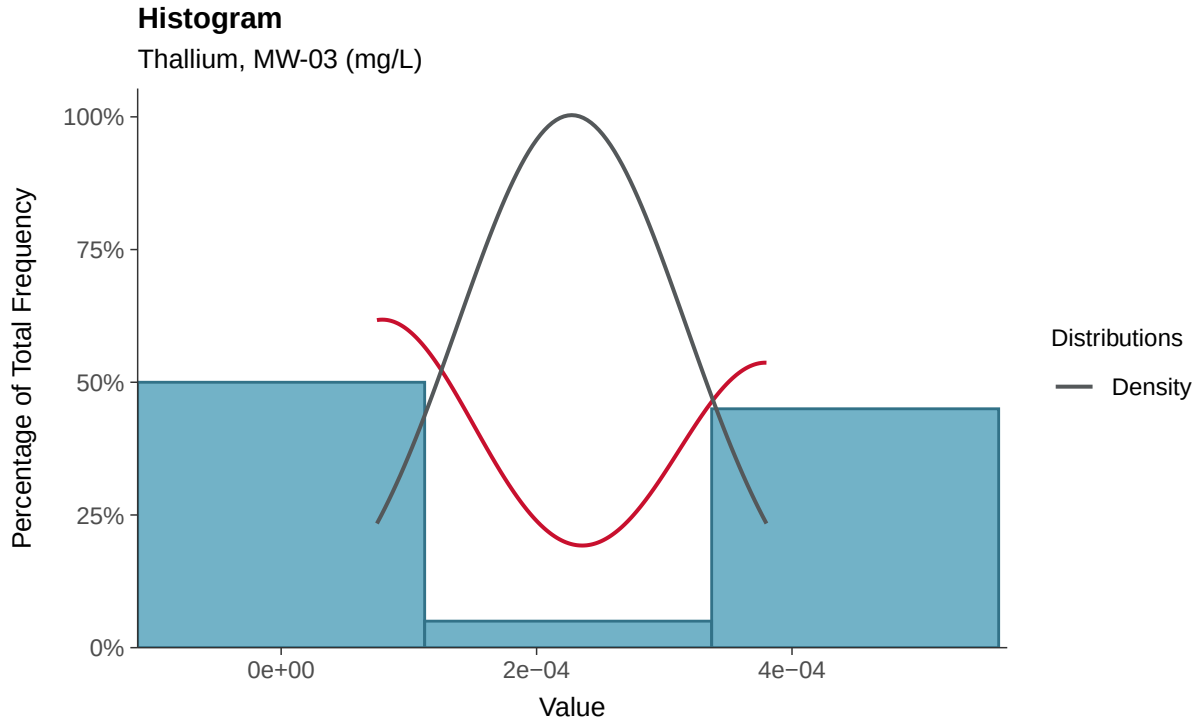
Selenium, MW-03 (mg/L)



Appendix IV: Thallium, MW-03

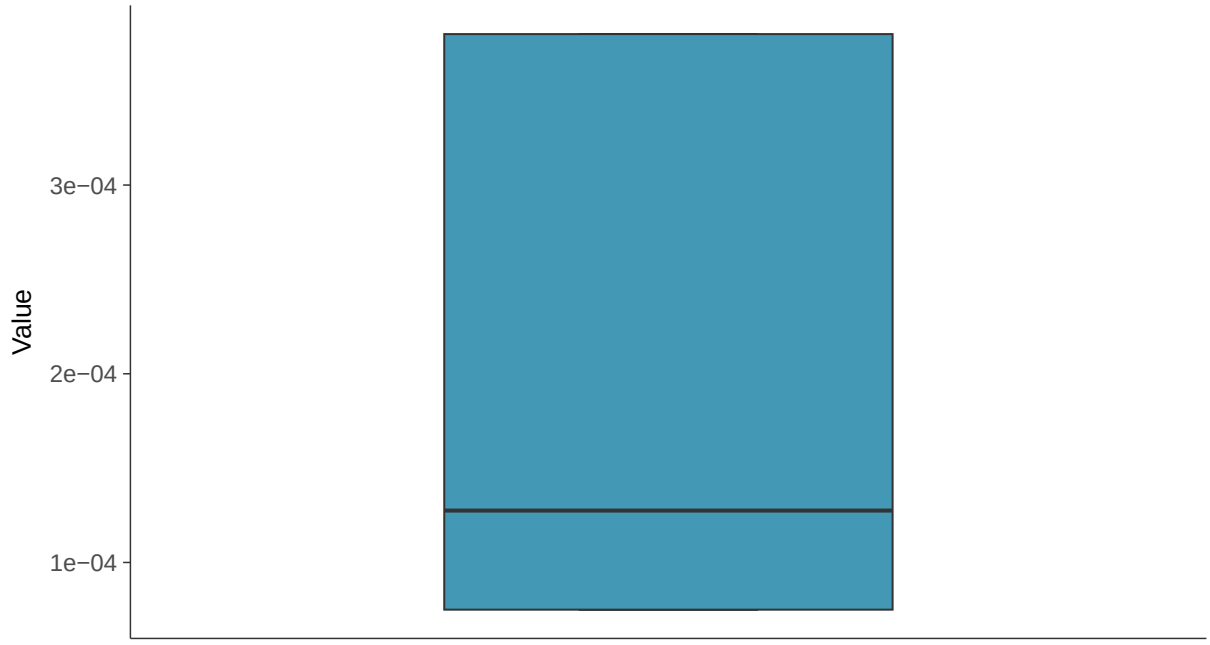
ID: 13_2_4_125





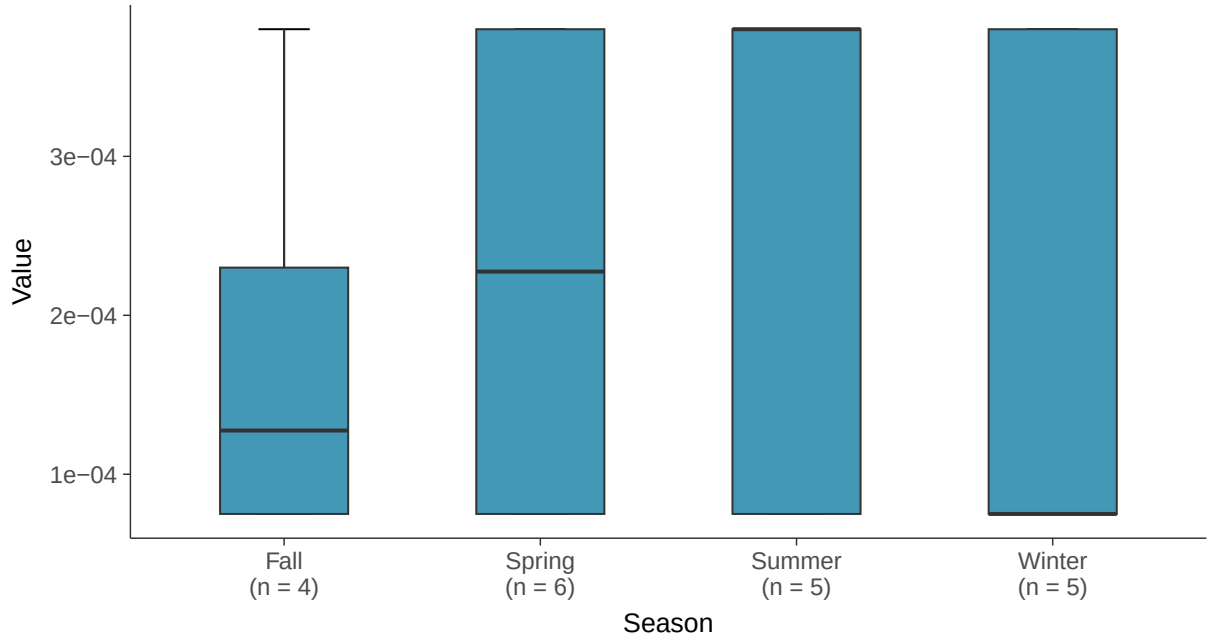
Boxplot

Thallium, MW-03 (mg/L)



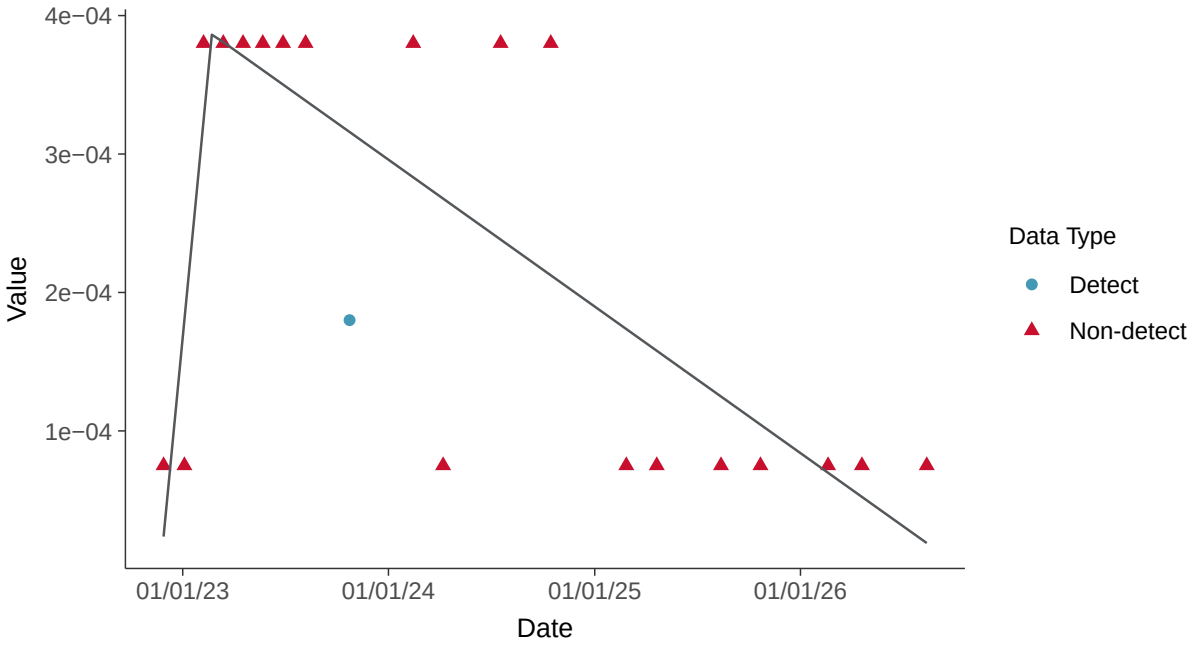
Boxplot by Season

Thallium, MW-03 (mg/L)



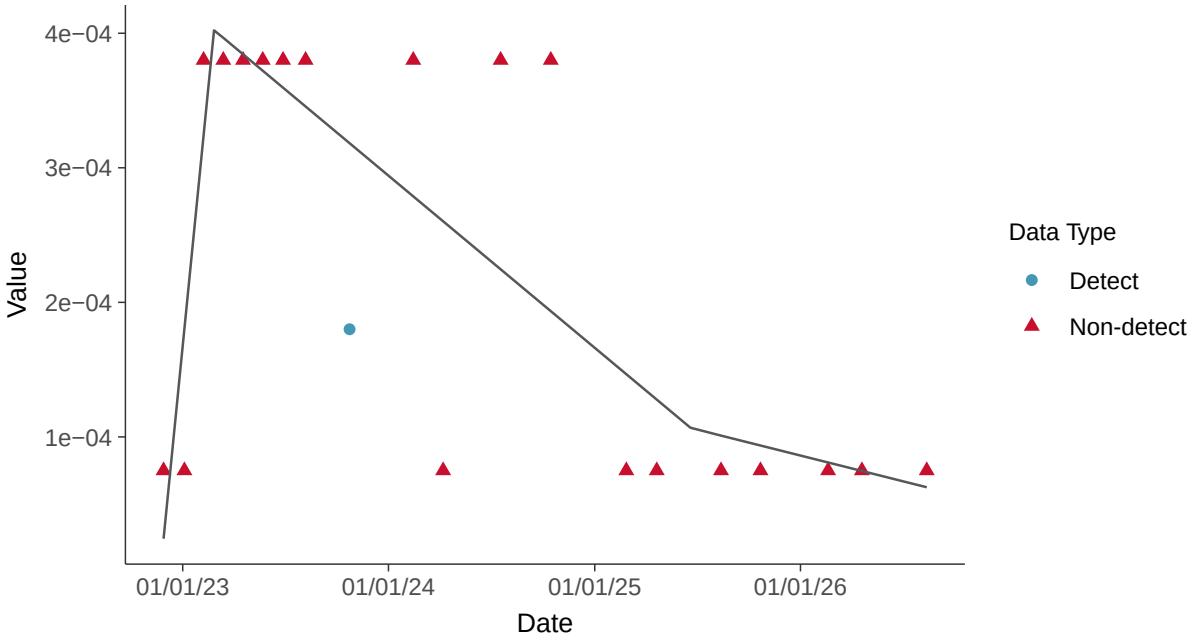
Trend Regression: Piecewise Linear-Linear

Thallium, MW-03 (mg/L)



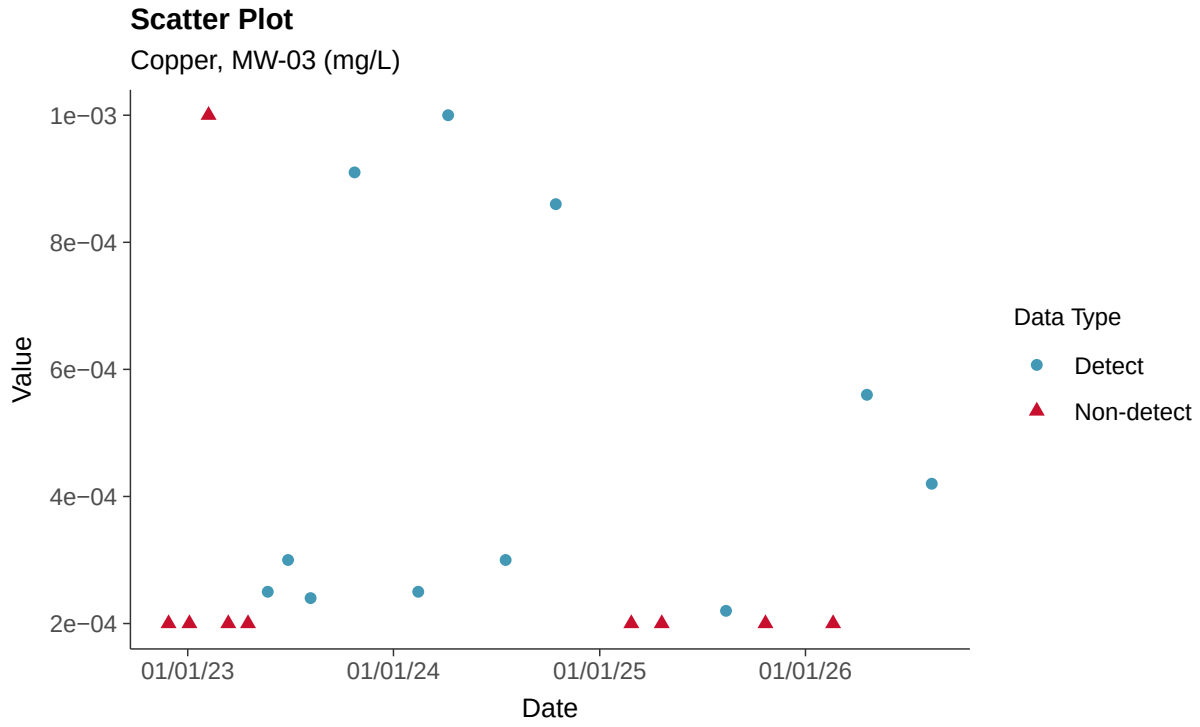
Trend Regression: Piecewise Linear-Linear-Linear

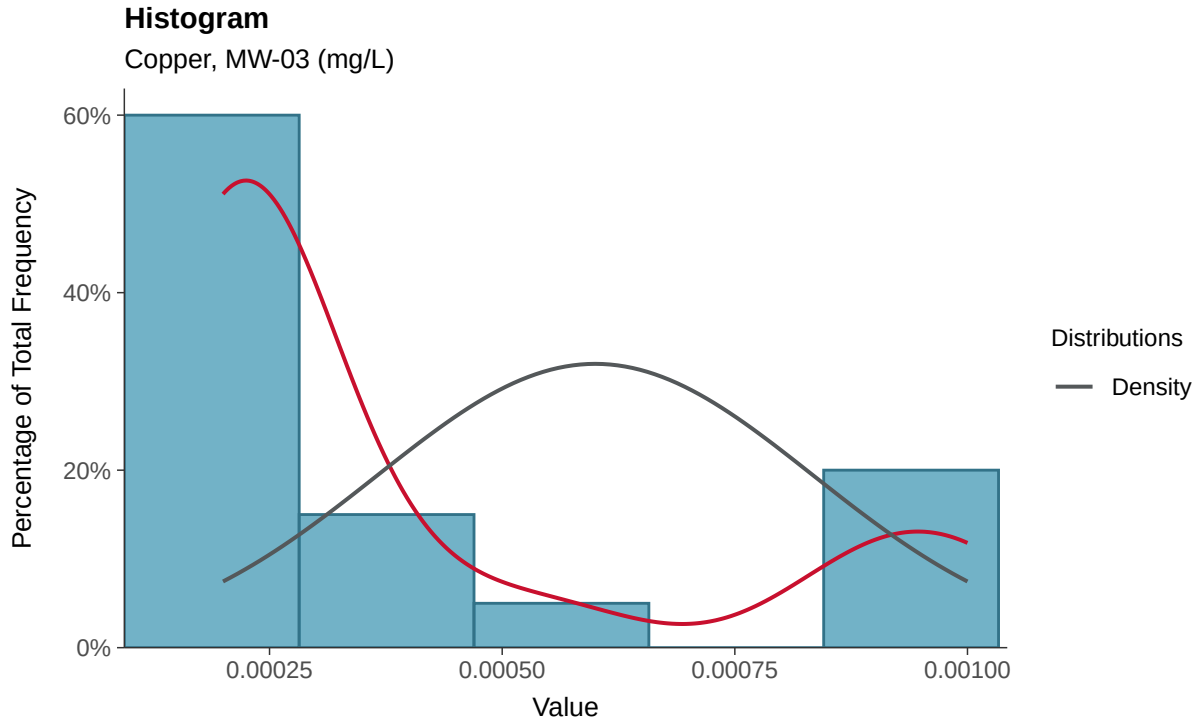
Thallium, MW-03 (mg/L)



Part 115: Copper, MW-03

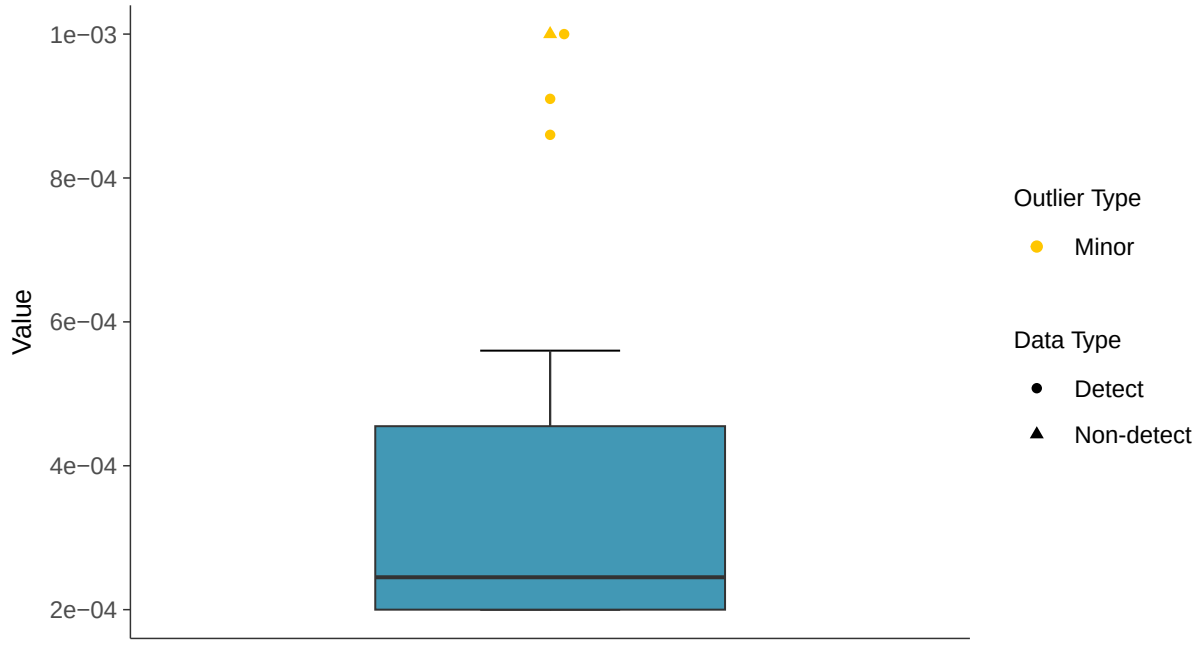
ID: 13_2_5_111





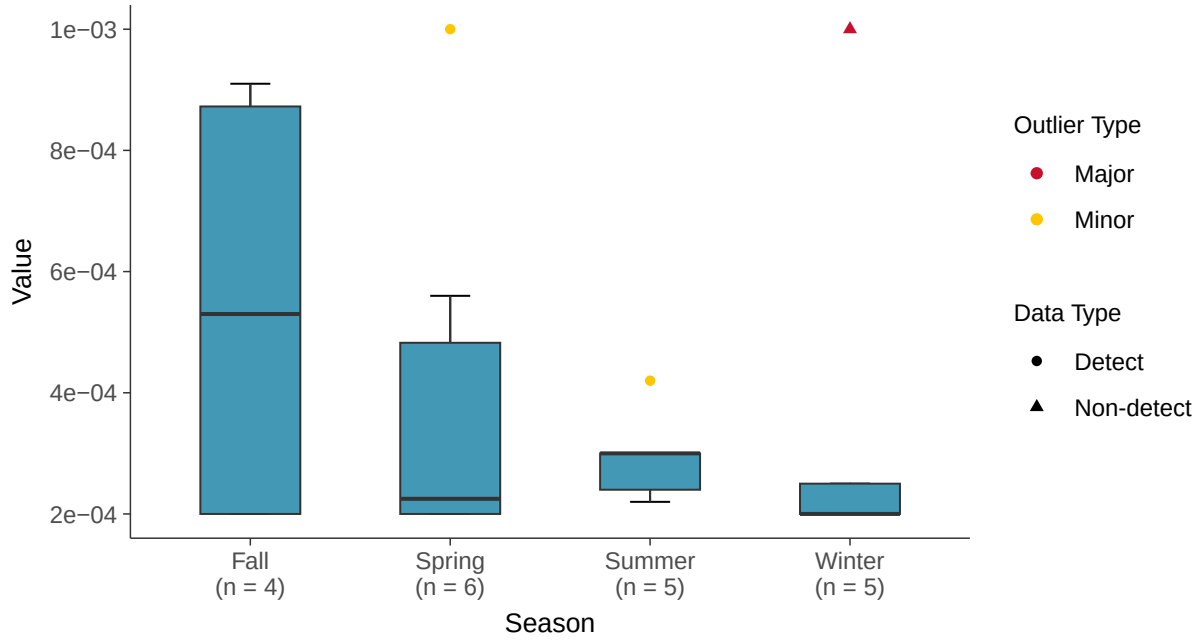
Boxplot

Copper, MW-03 (mg/L)



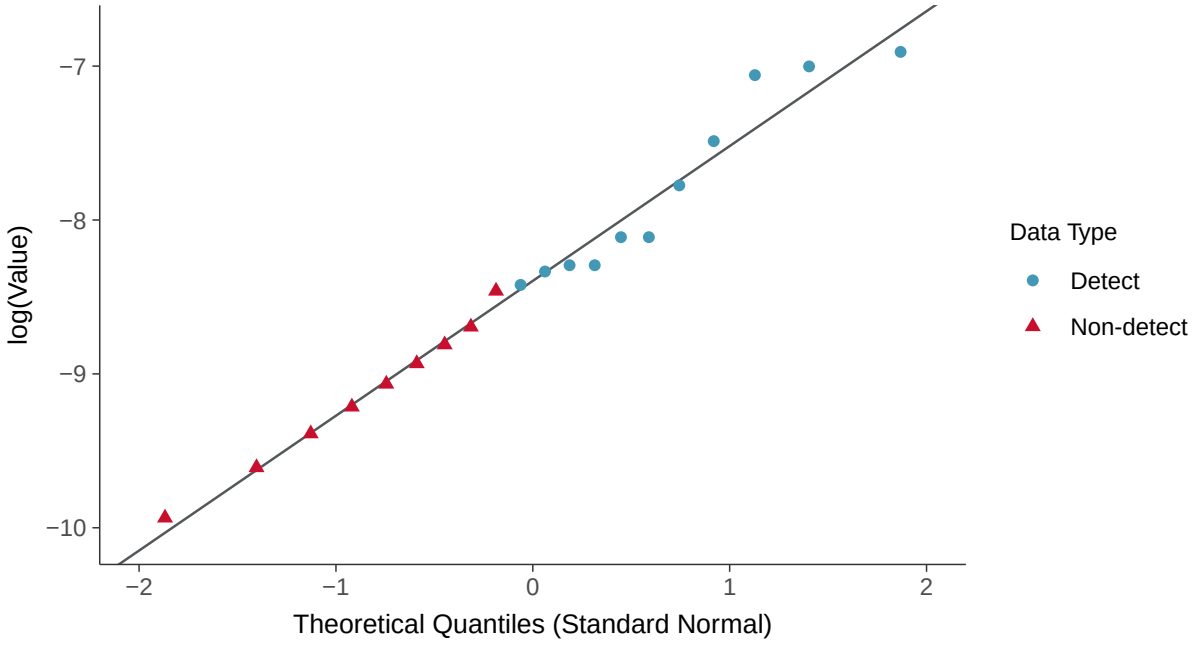
Boxplot by Season

Copper, MW-03 (mg/L)



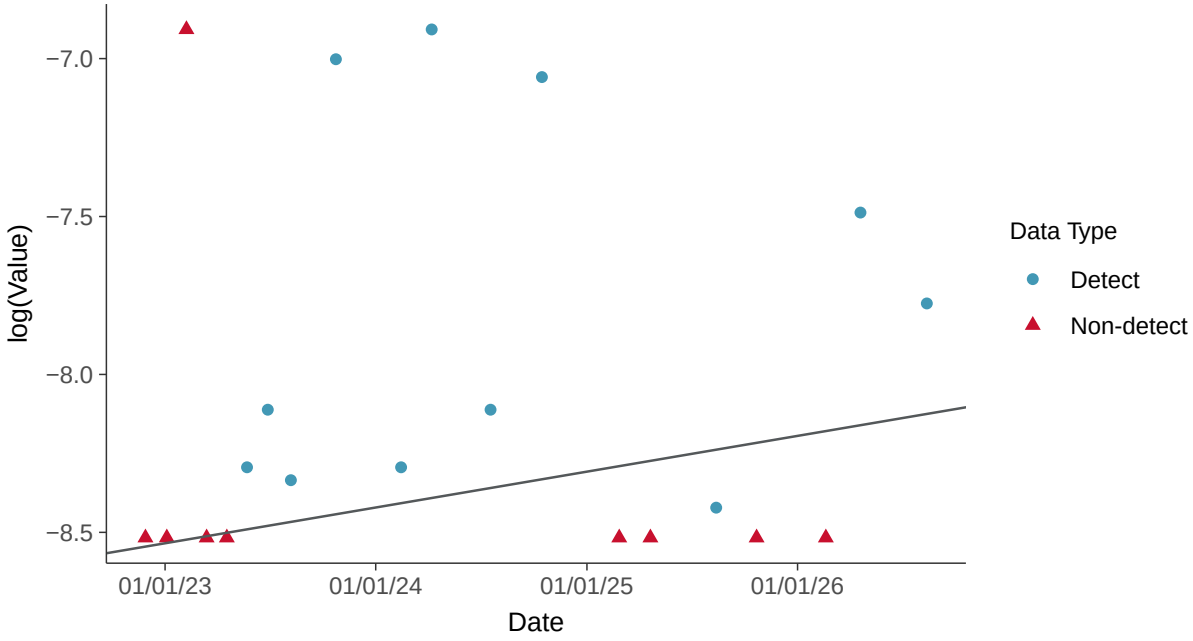
Lognormal Q-Q plot using ROS Imputed Estimates

Copper, MW-03 (mg/L)



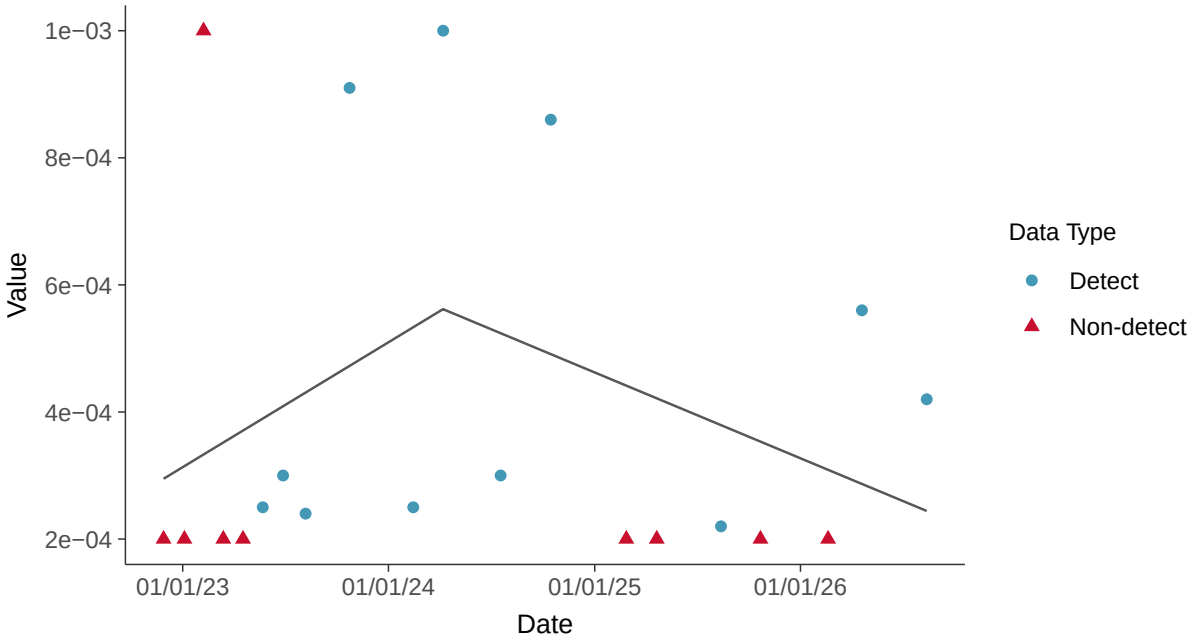
Trend Regression: Lognormal MLE

Copper, MW-03 (mg/L)



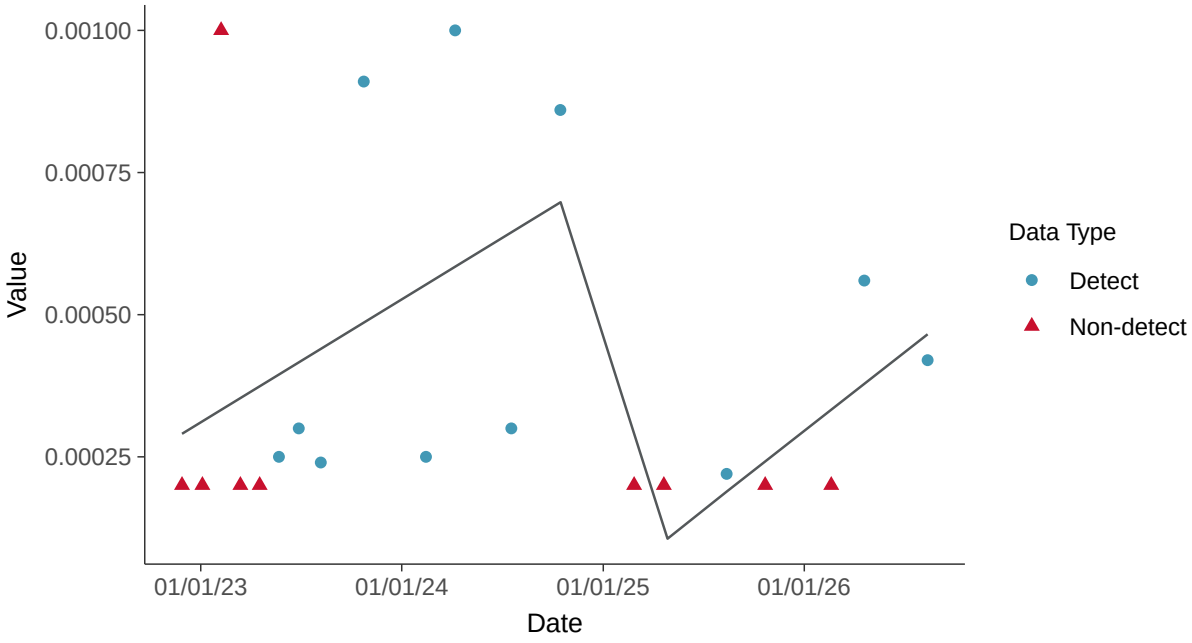
Trend Regression: Piecewise Linear-Linear

Copper, MW-03 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Copper, MW-03 (mg/L)

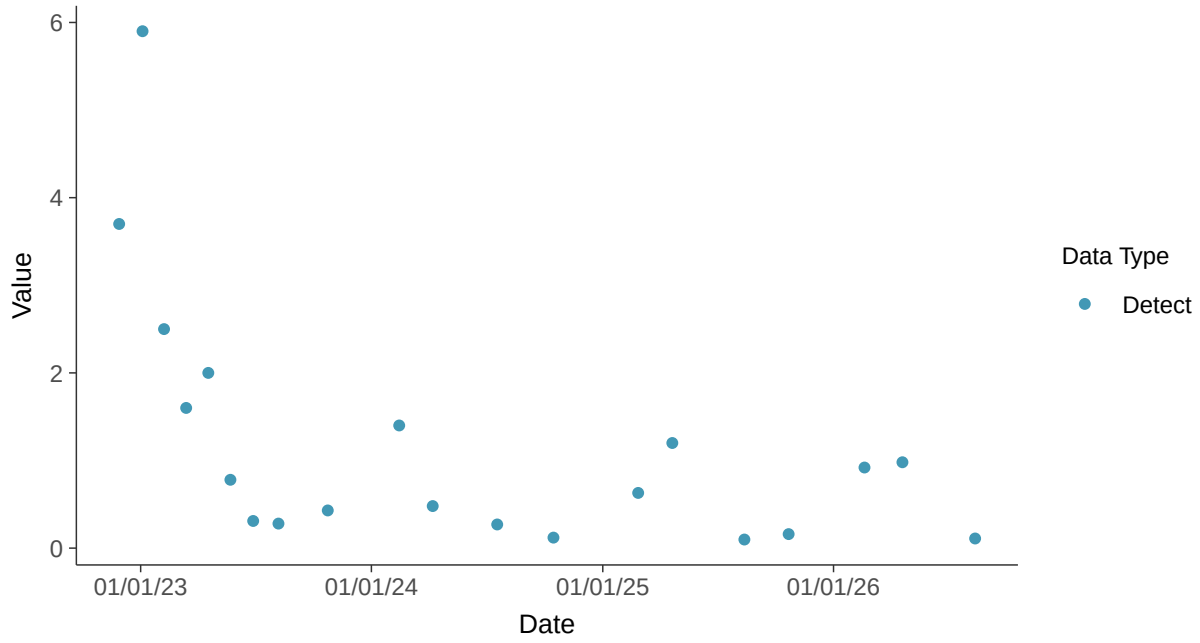


Part 115: Iron, MW-03

ID: 13_2_5_114

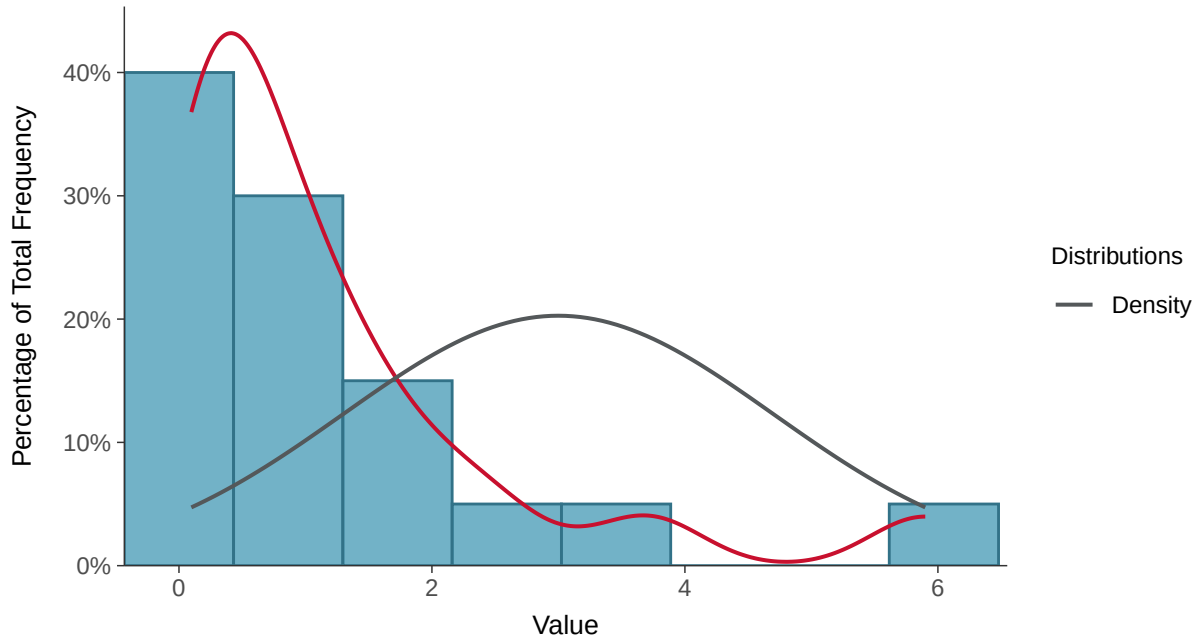
Scatter Plot

Iron, MW-03 (mg/L)



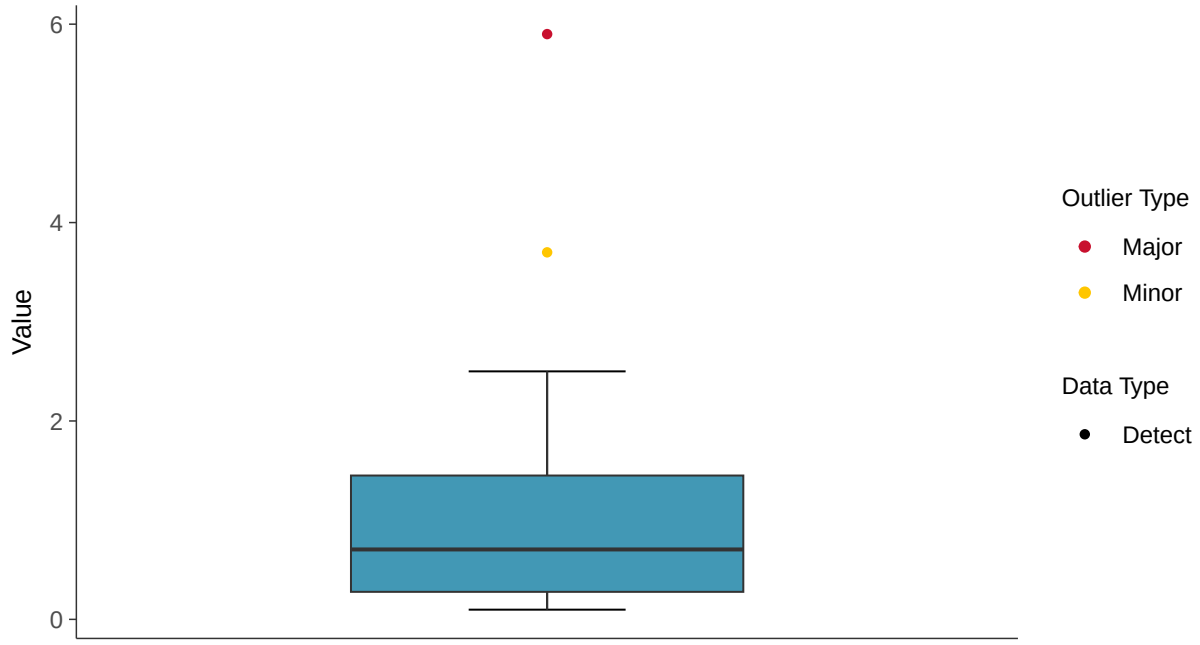
Histogram

Iron, MW-03 (mg/L)



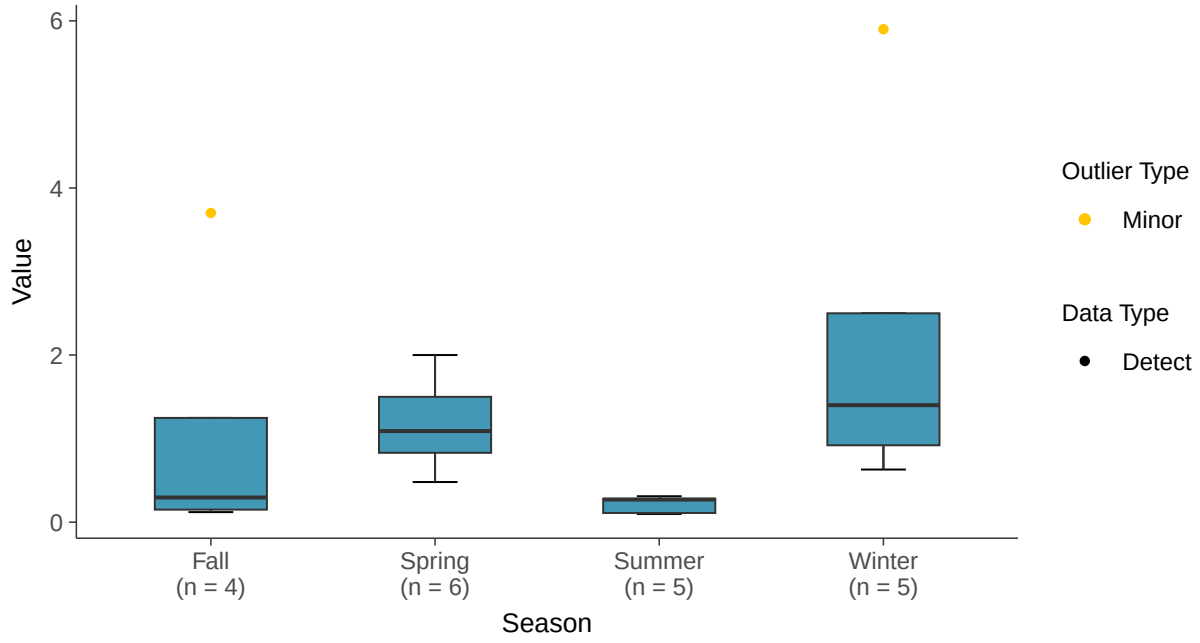
Boxplot

Iron, MW-03 (mg/L)



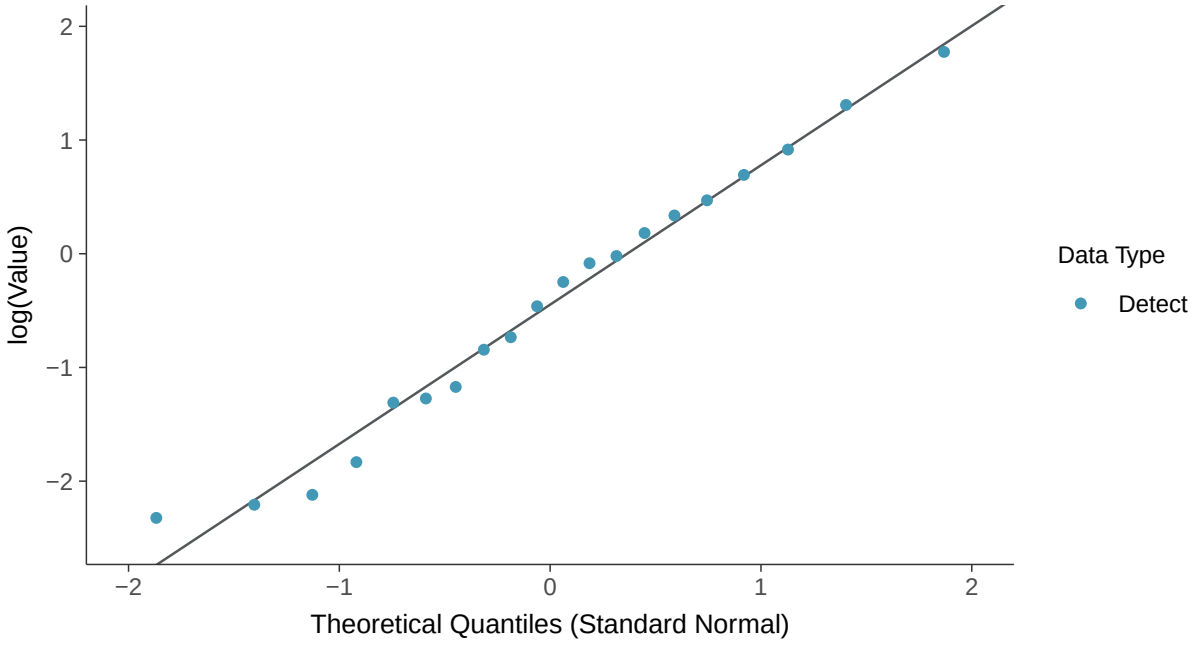
Boxplot by Season

Iron, MW-03 (mg/L)



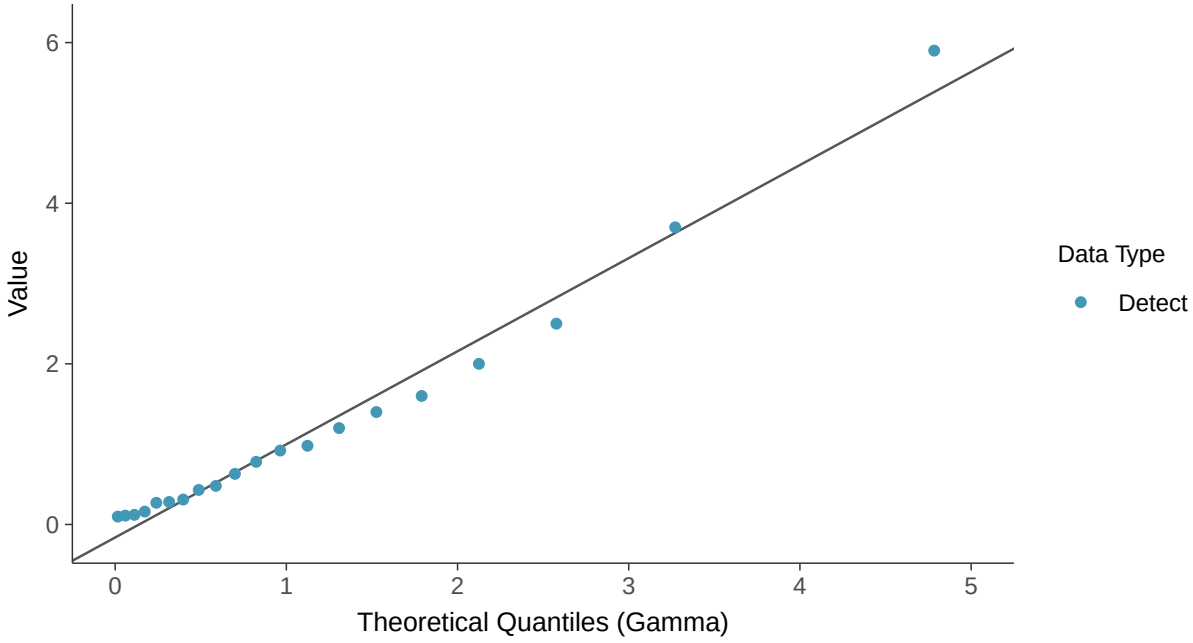
Lognormal Q-Q plot

Iron, MW-03 (mg/L)



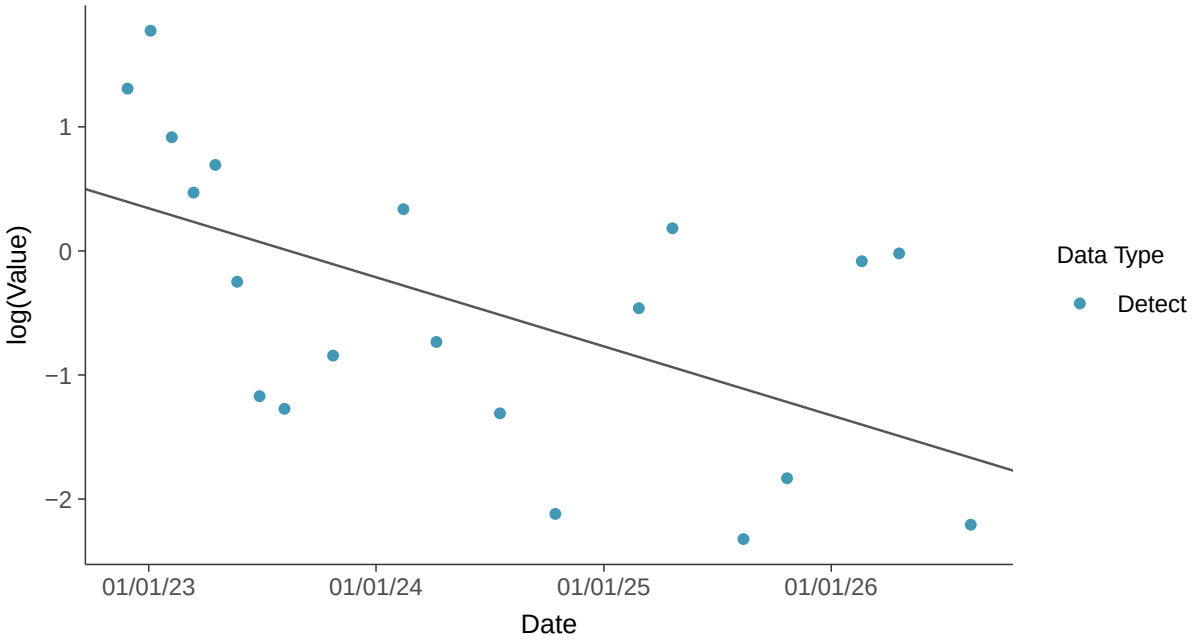
Gamma Q-Q plot

Iron, MW-03 (mg/L)



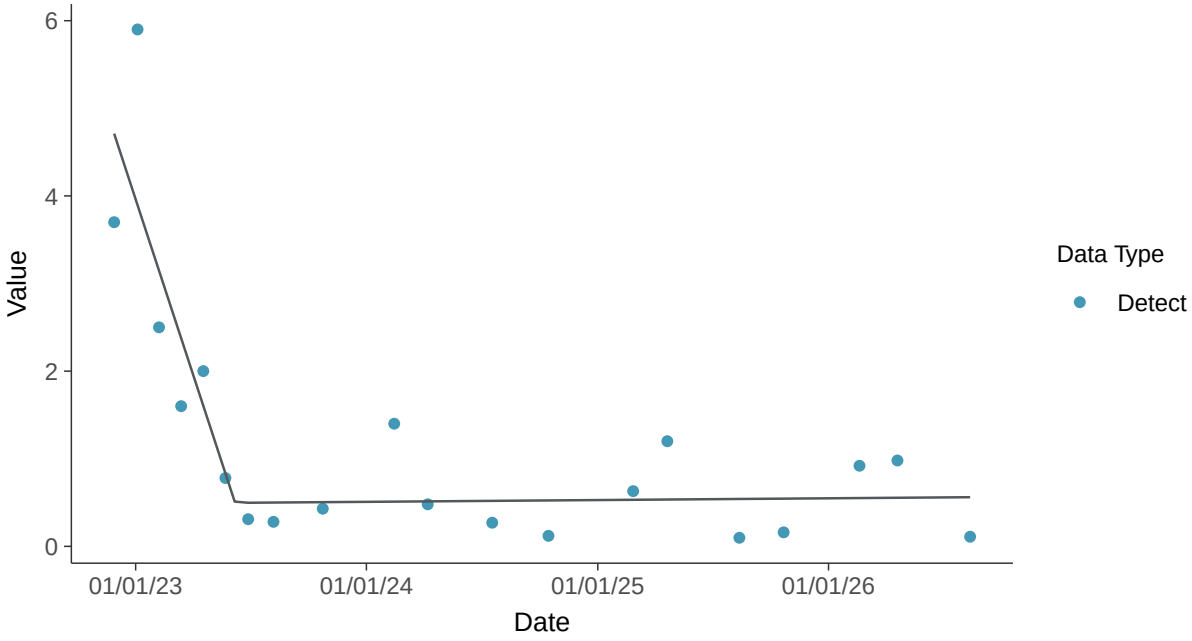
Trend Regression: Lognormal MLE

Iron, MW-03 (mg/L)



Trend Regression: Piecewise Linear-Linear

Iron, MW-03 (mg/L)

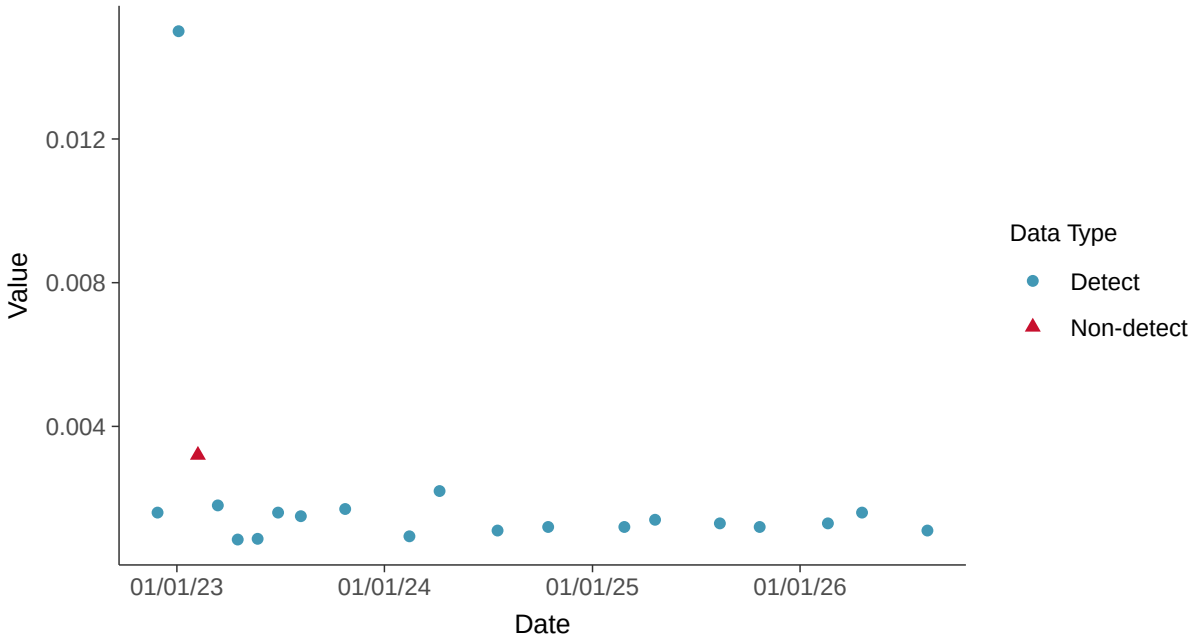


Part 115: Nickel, MW-03

ID: 13_2_5_119

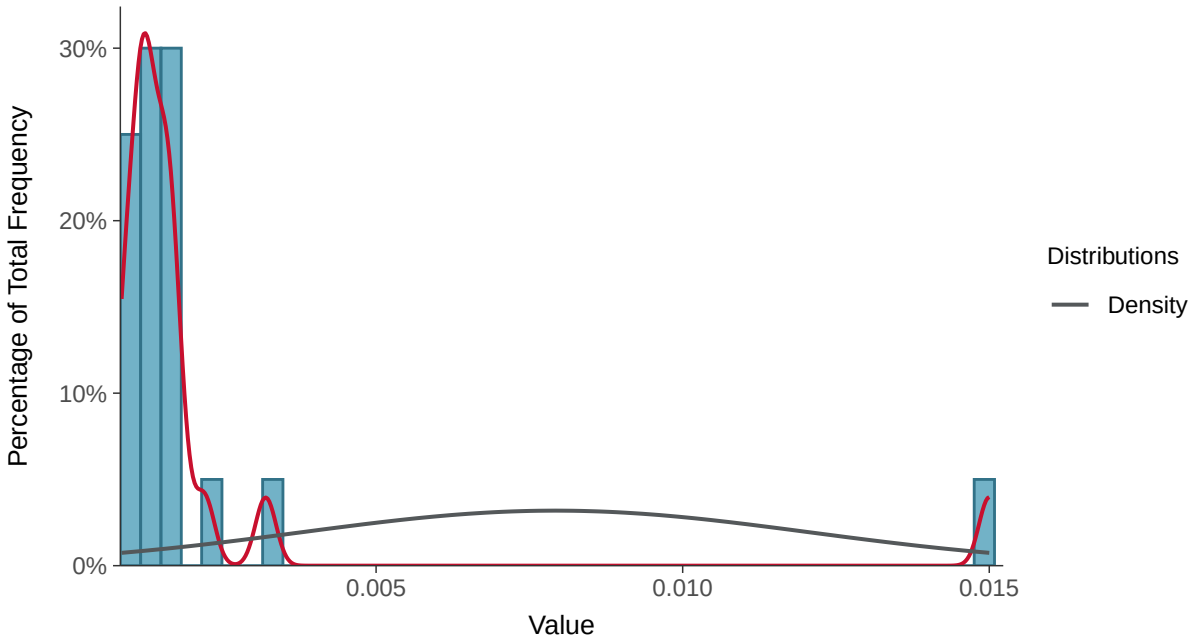
Scatter Plot

Nickel, MW-03 (mg/L)



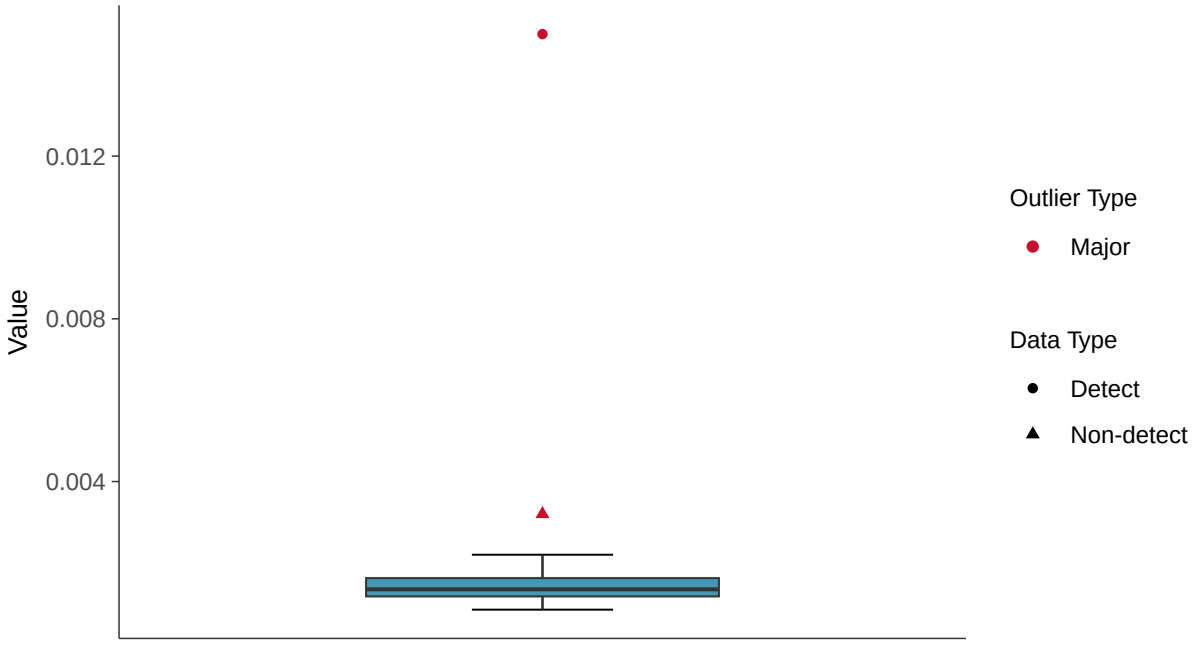
Histogram

Nickel, MW-03 (mg/L)



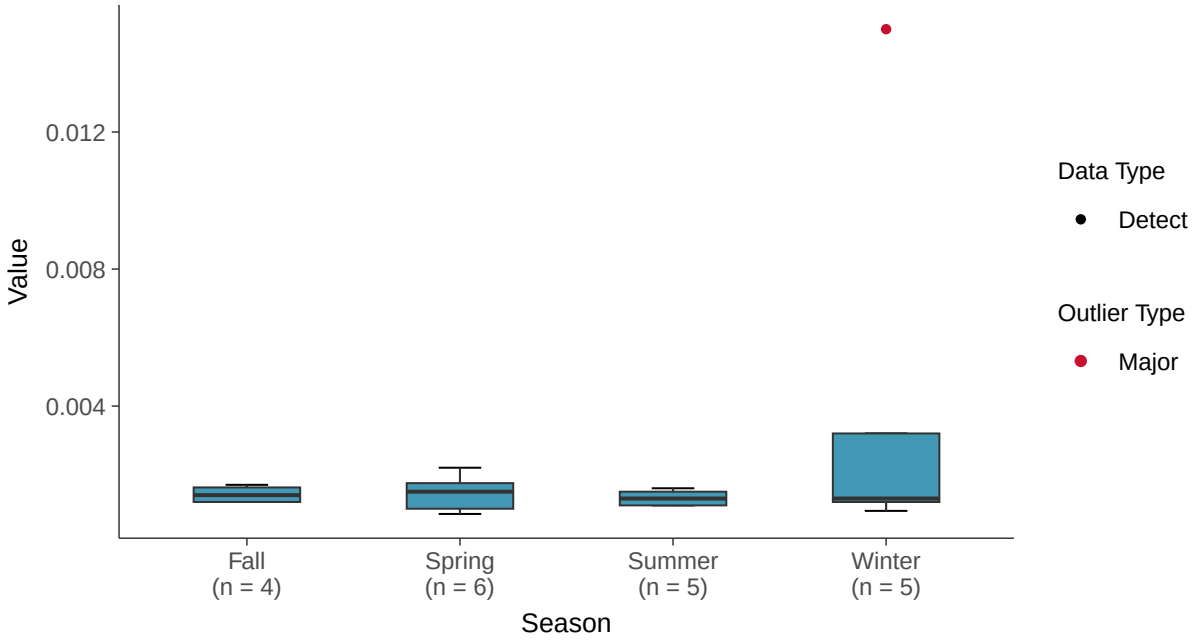
Boxplot

Nickel, MW-03 (mg/L)



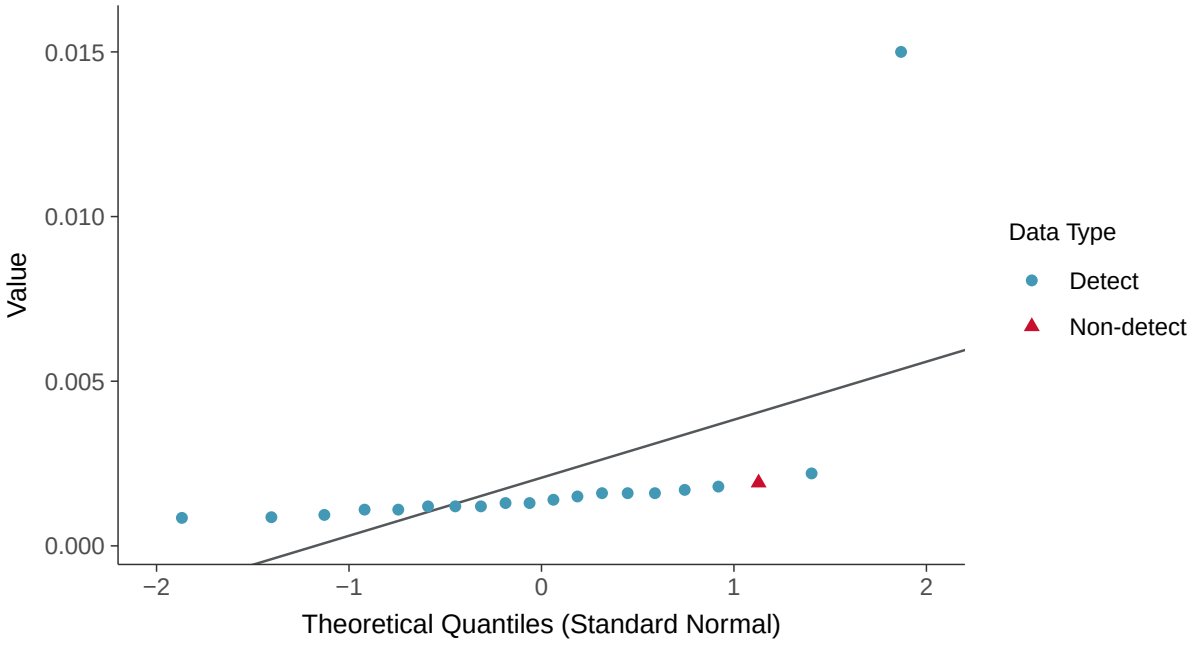
Boxplot by Season

Nickel, MW-03 (mg/L)



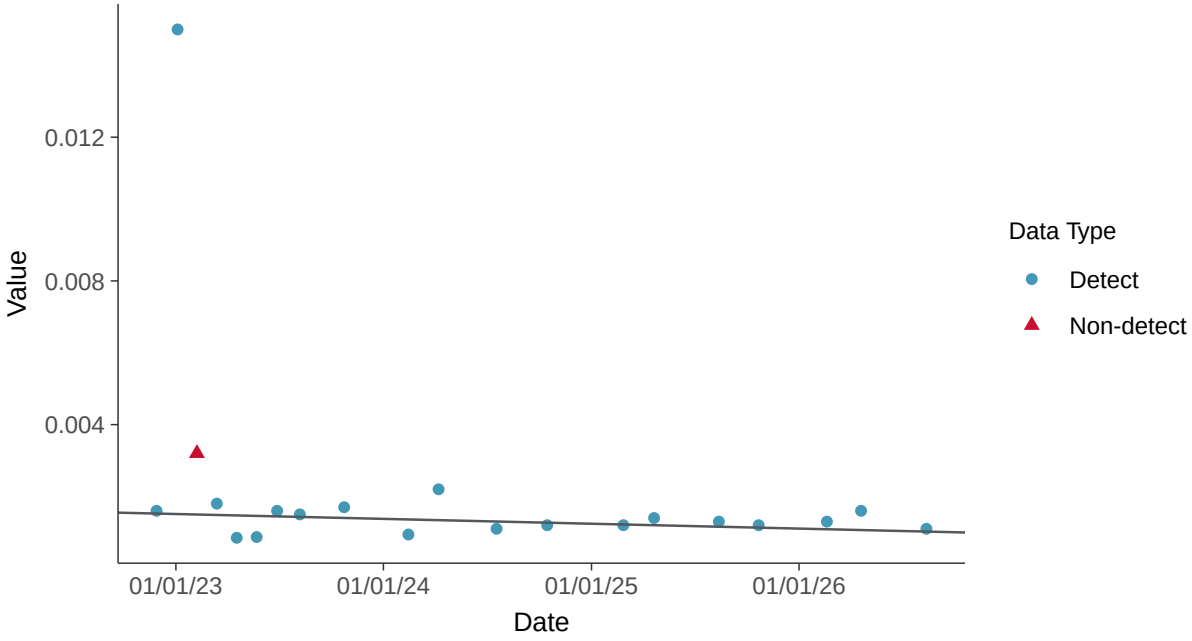
Normal Q-Q plot using ROS Imputed Estimates

Nickel, MW-03 (mg/L)



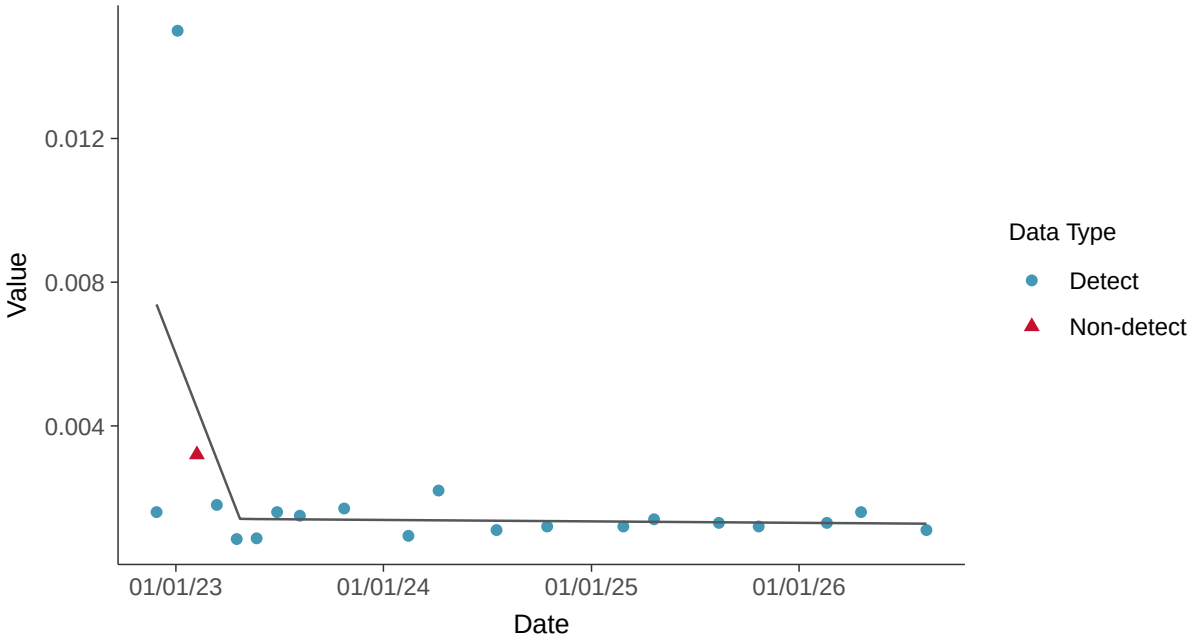
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Nickel, MW-03 (mg/L)



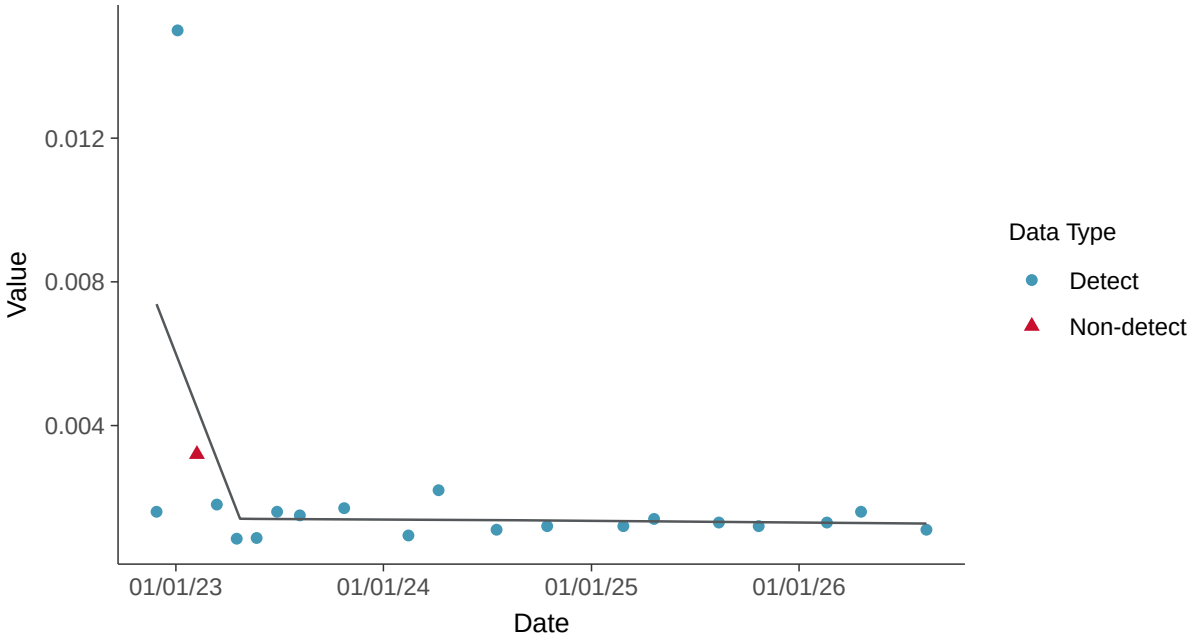
Trend Regression: Piecewise Linear-Linear

Nickel, MW-03 (mg/L)



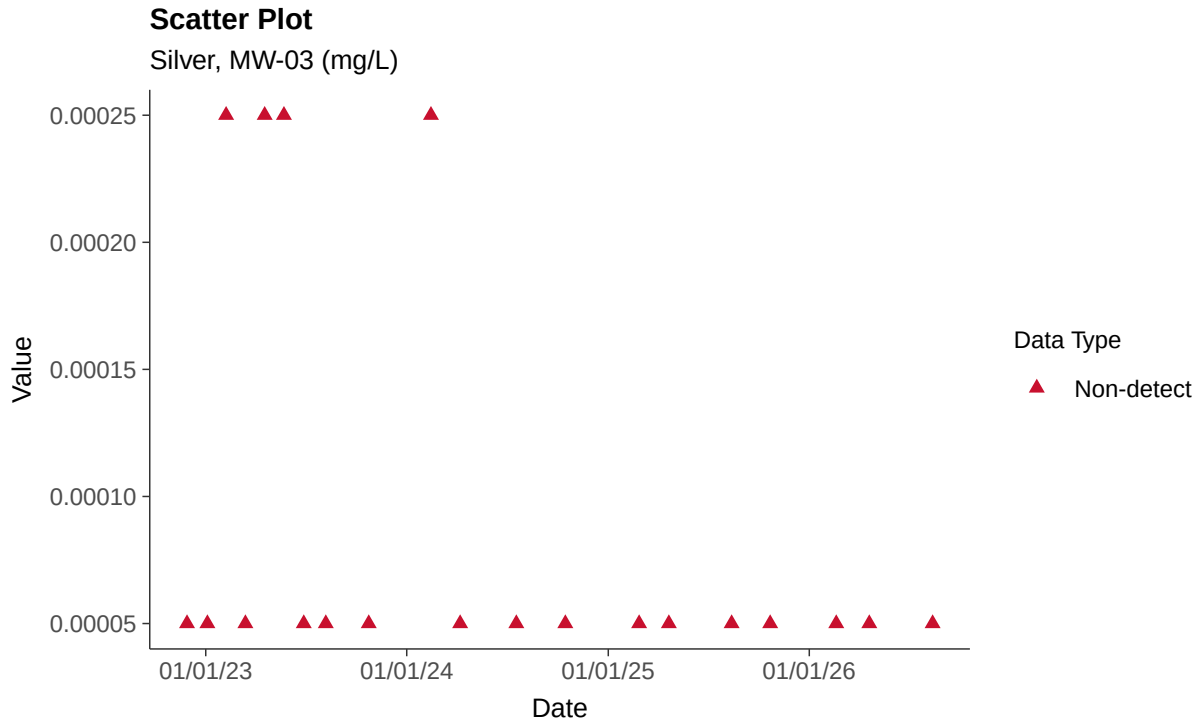
Trend Regression: Piecewise Linear-Linear-Linear

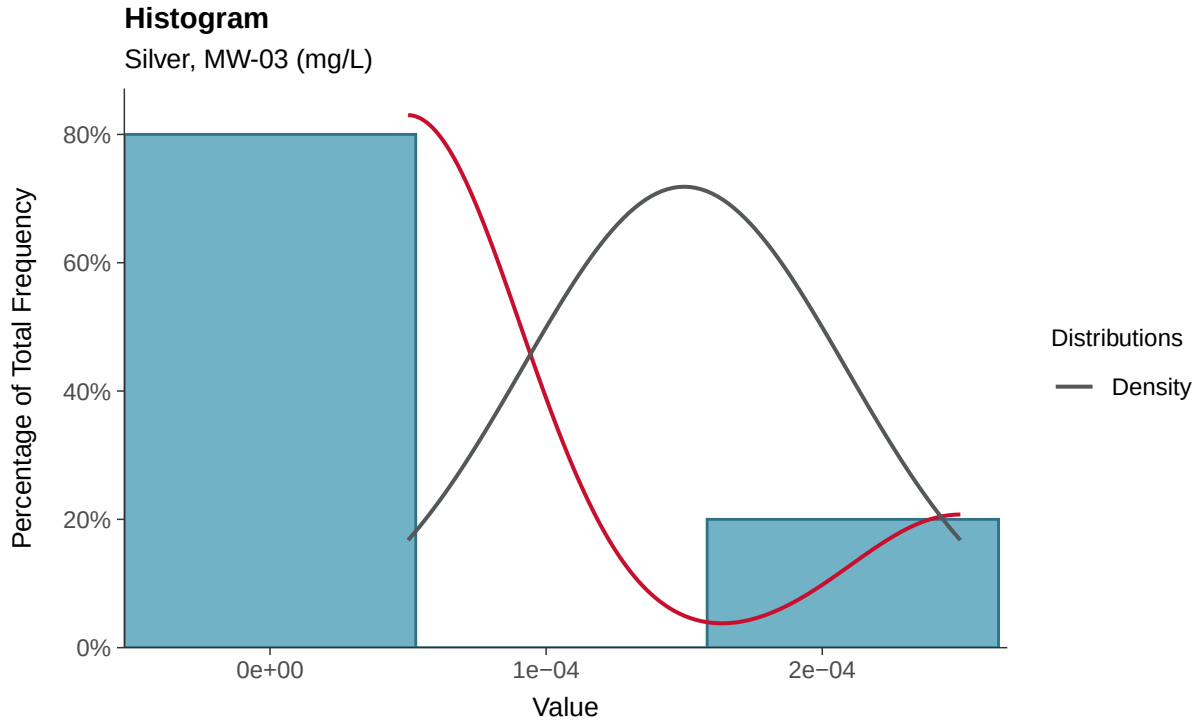
Nickel, MW-03 (mg/L)



Part 115: Silver, MW-03

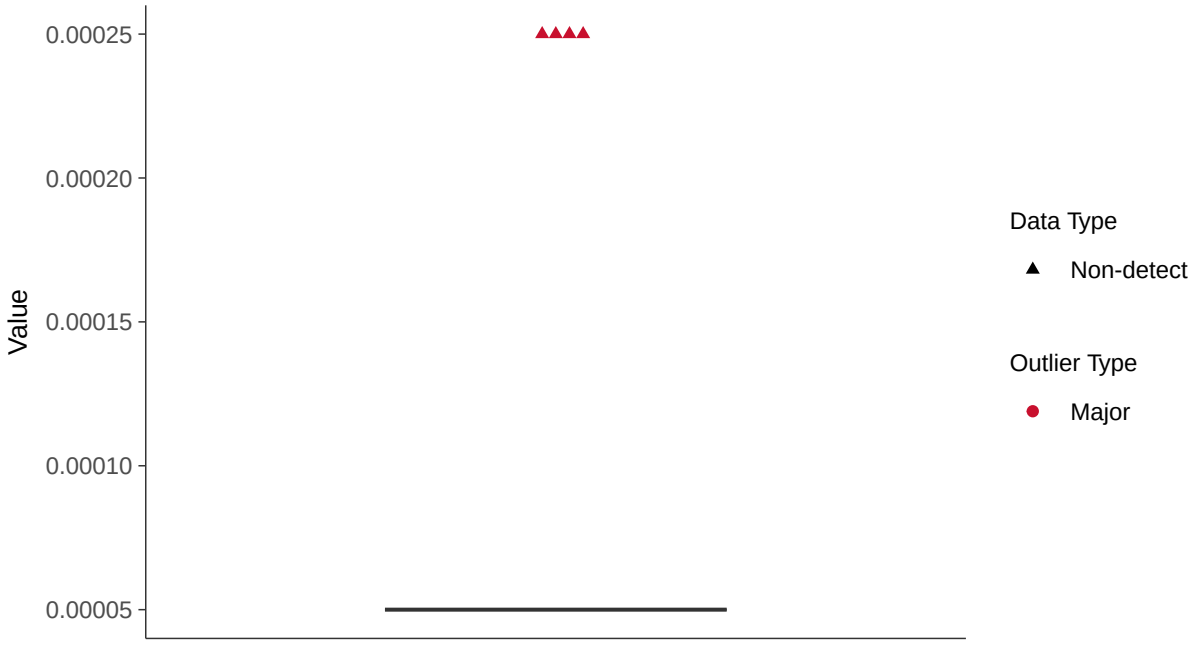
ID: 13_2_5_123





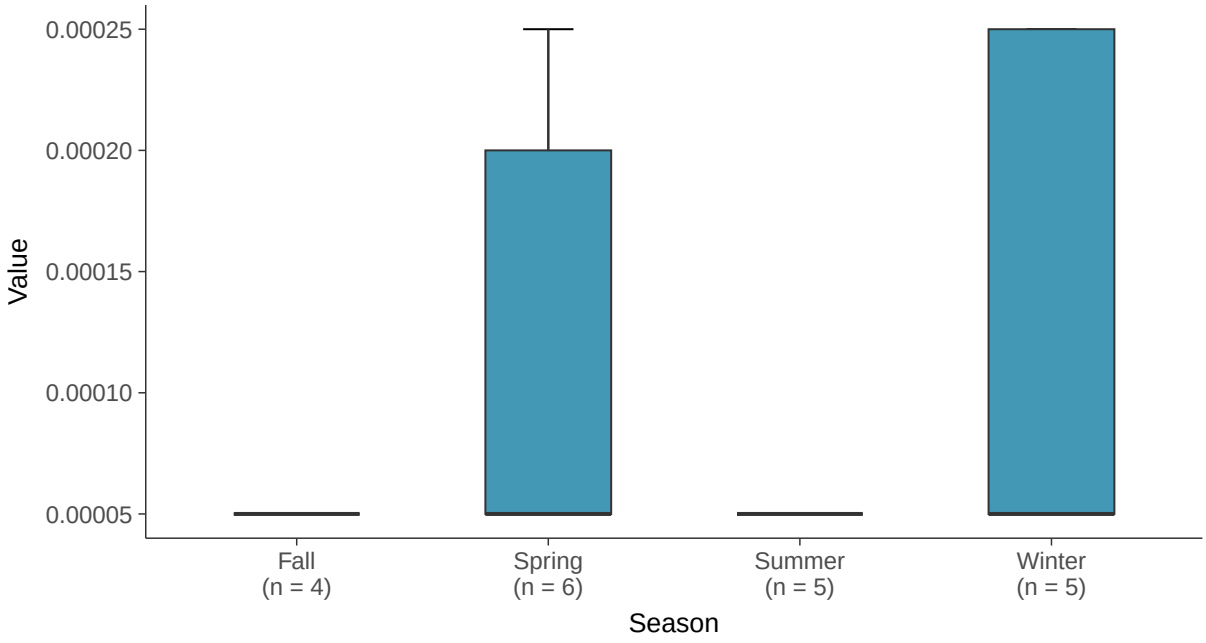
Boxplot

Silver, MW-03 (mg/L)



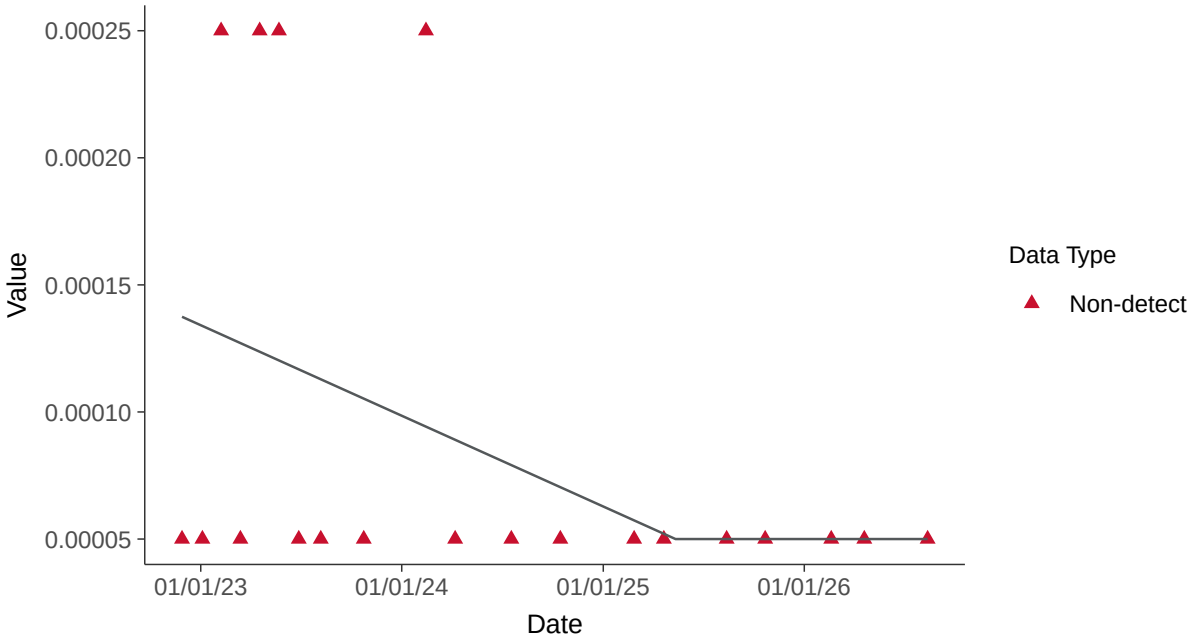
Boxplot by Season

Silver, MW-03 (mg/L)



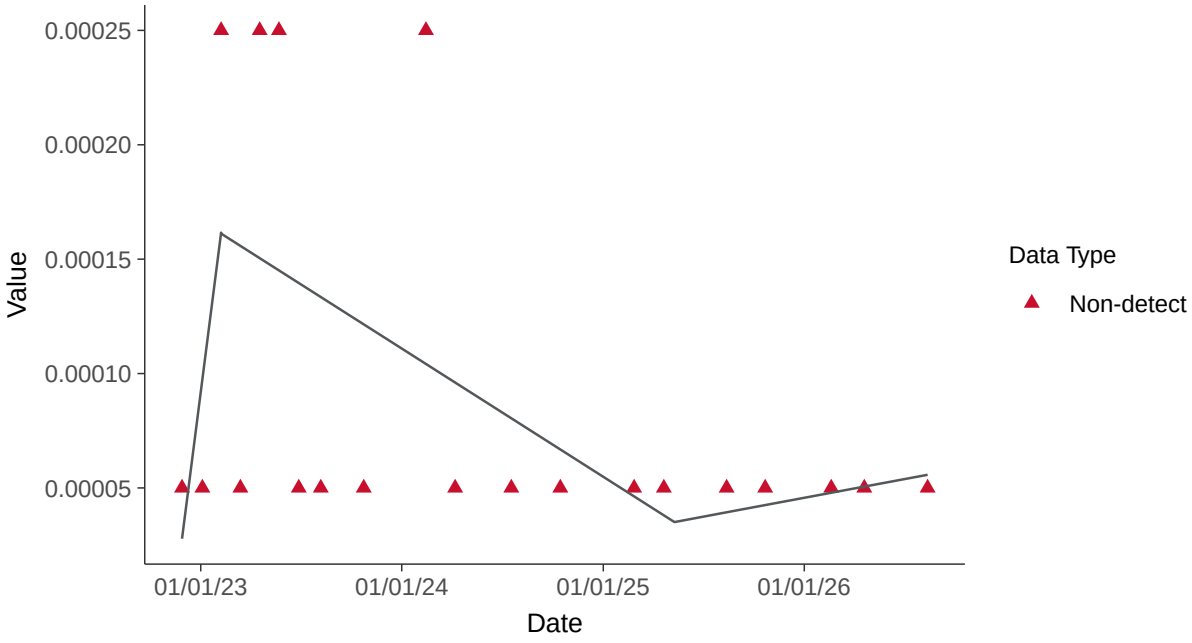
Trend Regression: Piecewise Linear-Linear

Silver, MW-03 (mg/L)



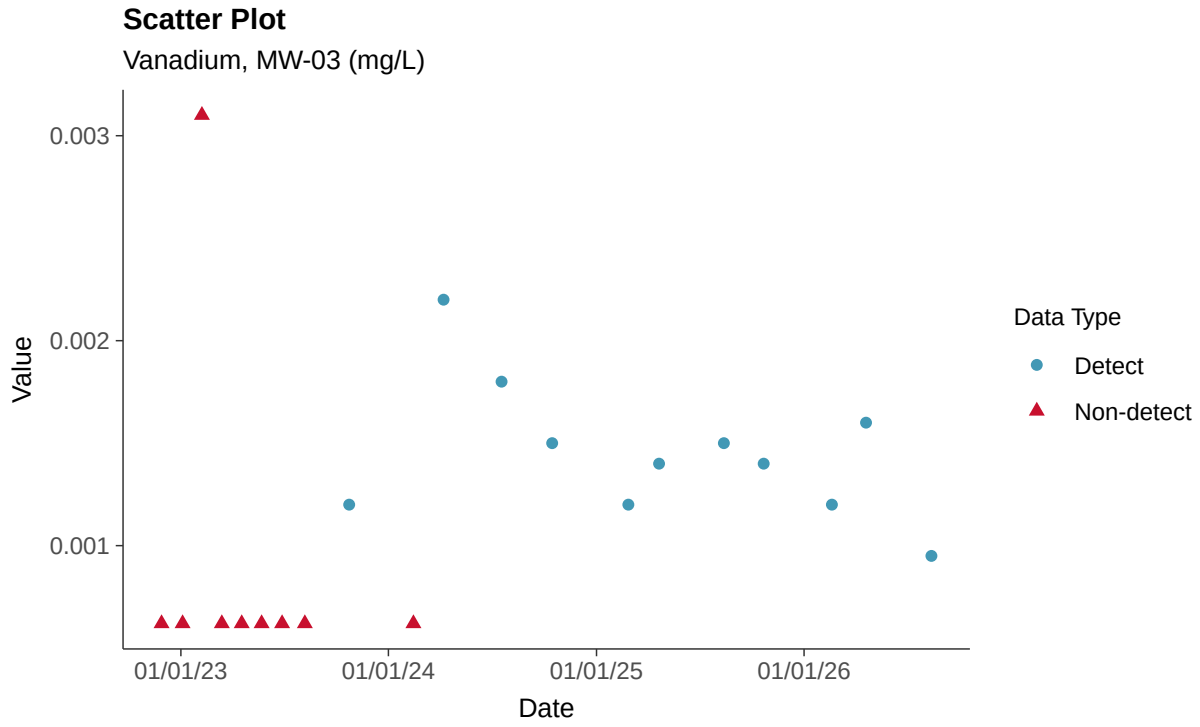
Trend Regression: Piecewise Linear-Linear-Linear

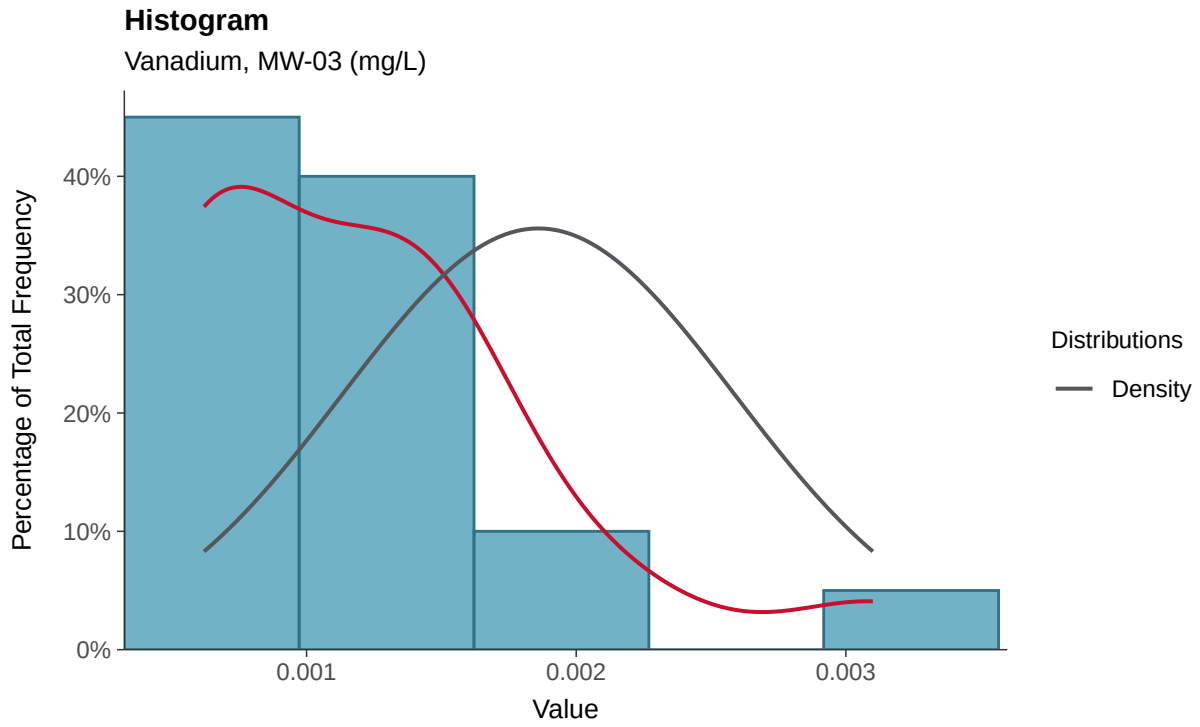
Silver, MW-03 (mg/L)



Part 115: Vanadium, MW-03

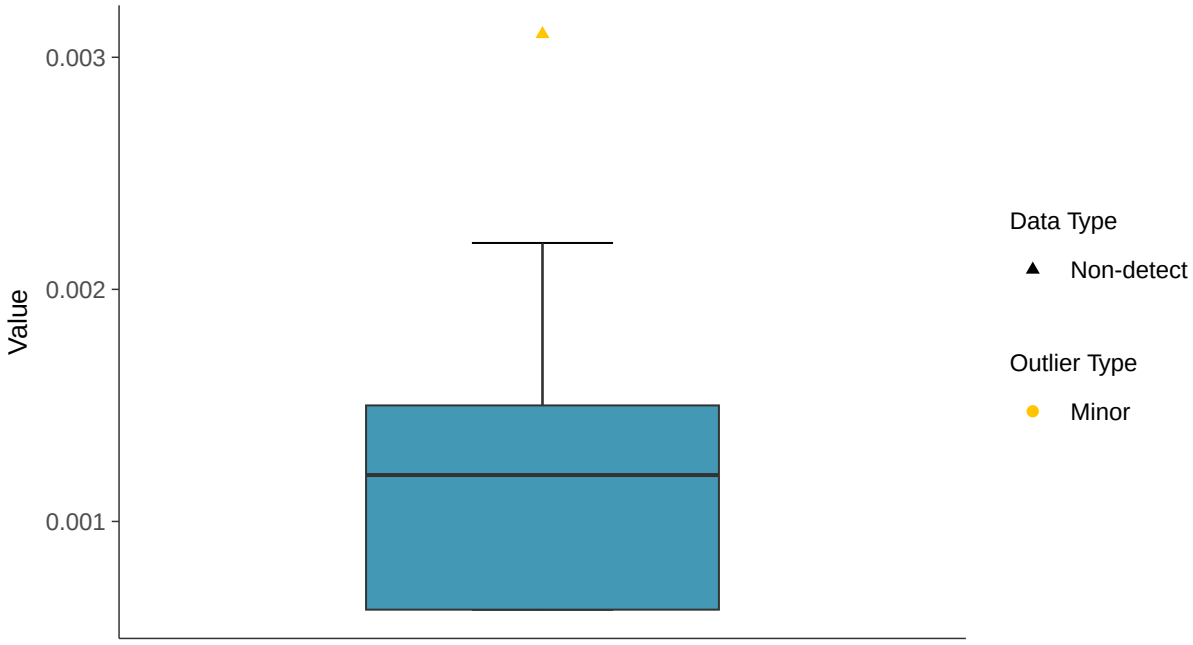
ID: 13_2_5_128





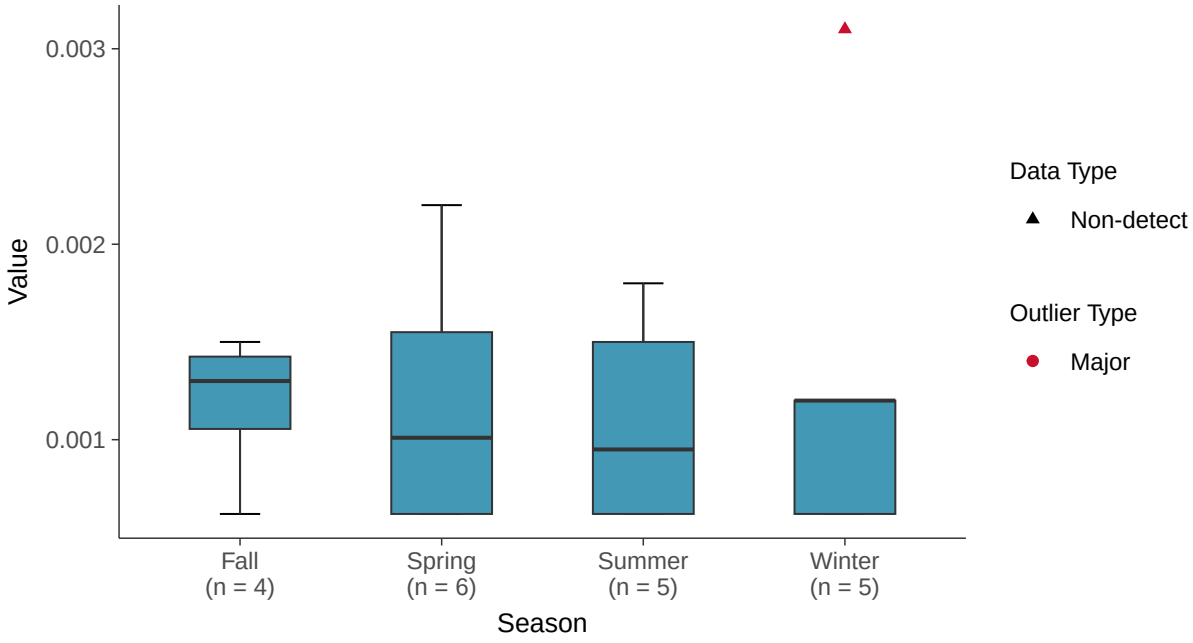
Boxplot

Vanadium, MW-03 (mg/L)



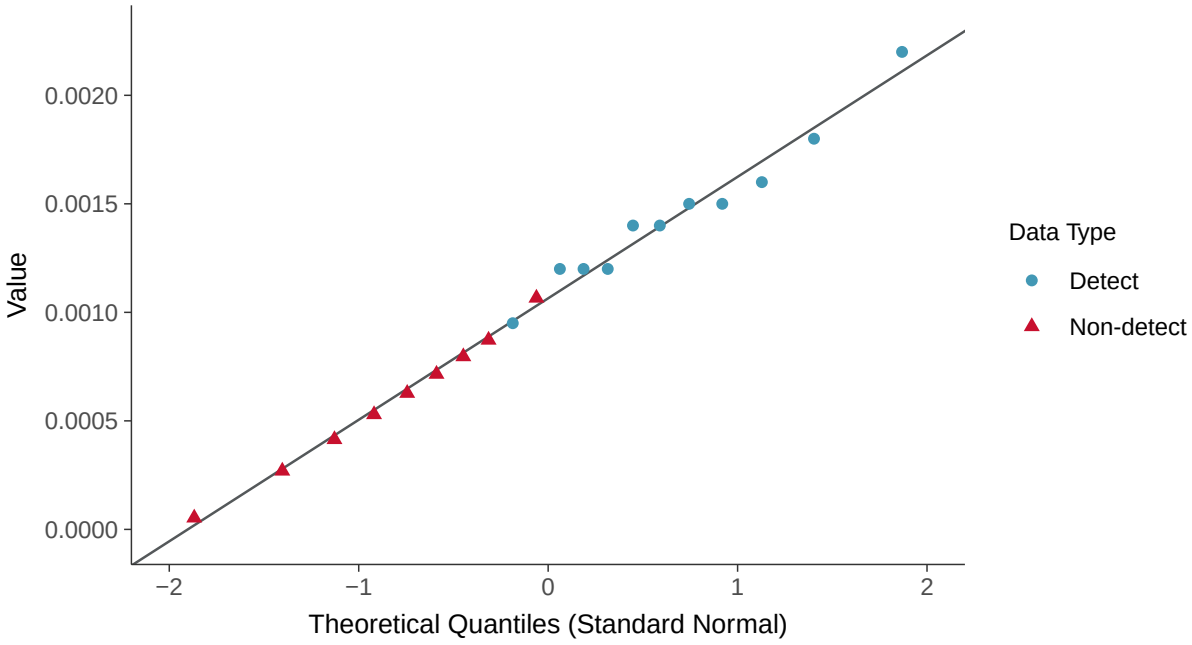
Boxplot by Season

Vanadium, MW-03 (mg/L)



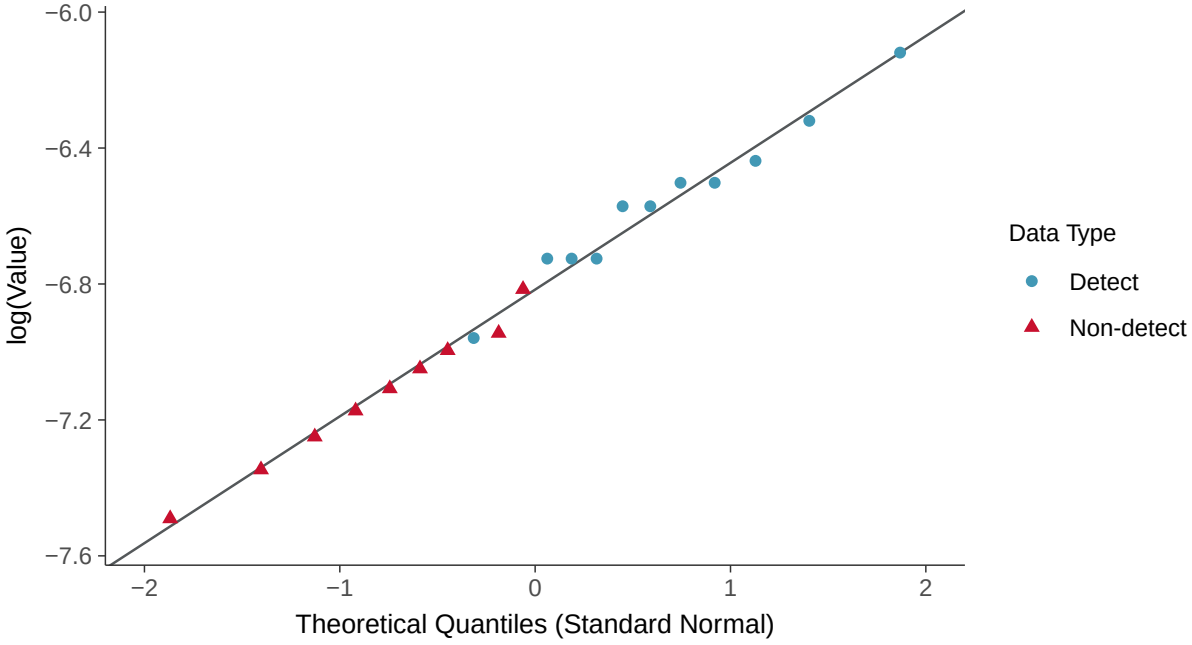
Normal Q-Q plot using ROS Imputed Estimates

Vanadium, MW-03 (mg/L)



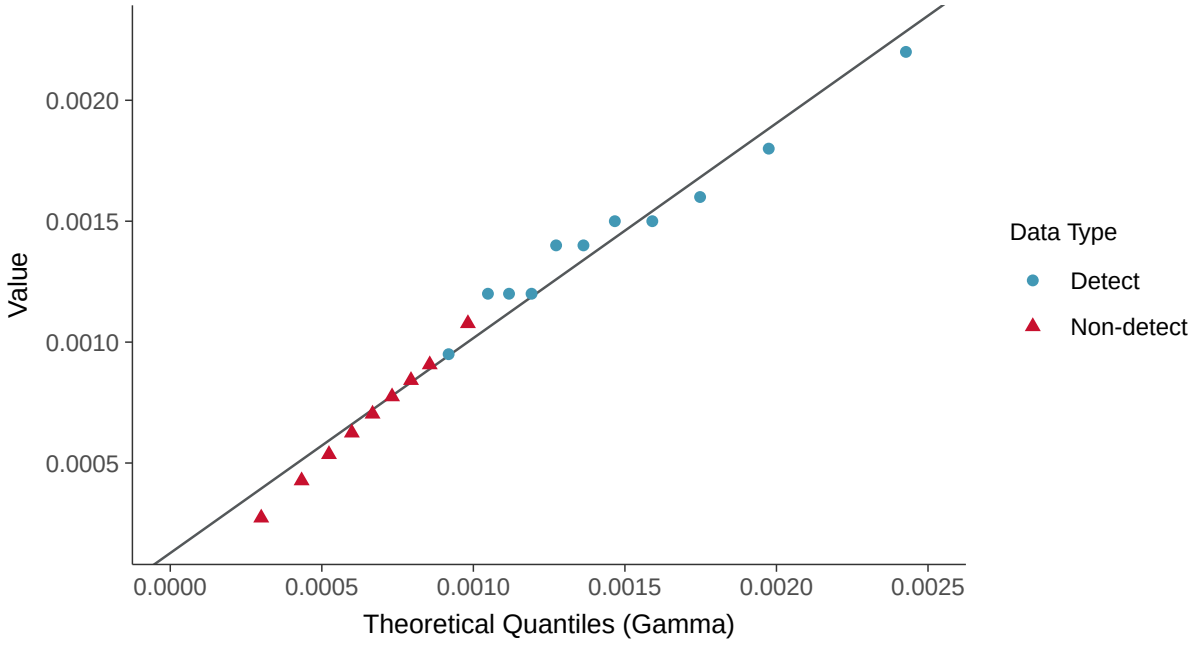
Lognormal Q-Q plot using ROS Imputed Estimates

Vanadium, MW-03 (mg/L)



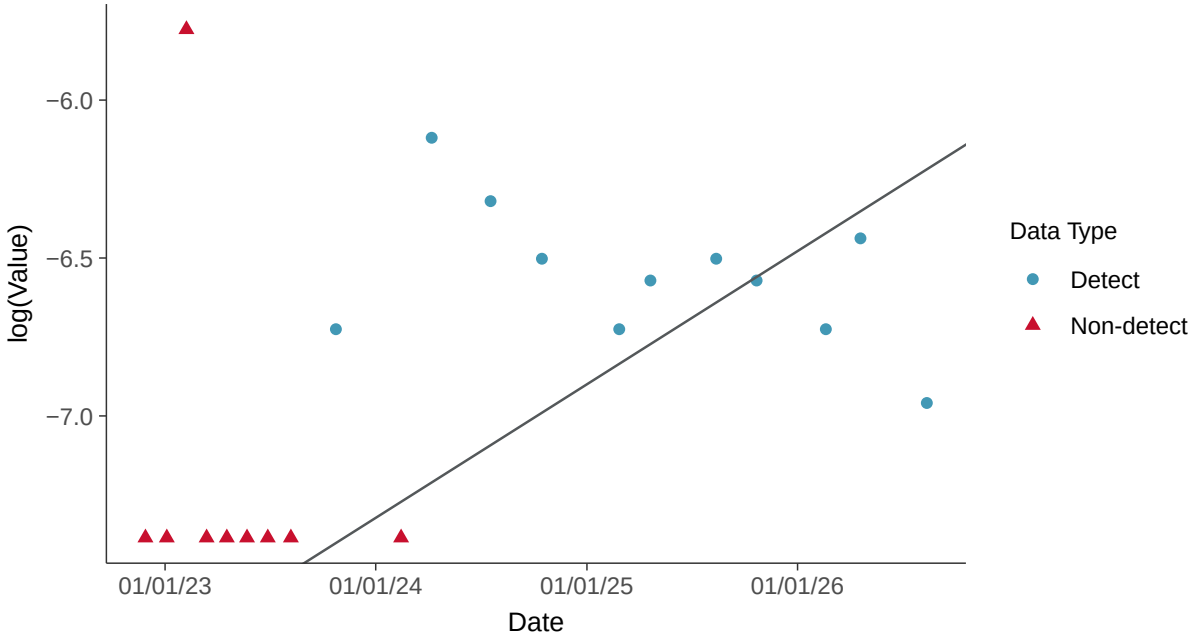
Gamma Q-Q plot using ROS Imputed Estimates

Vanadium, MW-03 (mg/L)



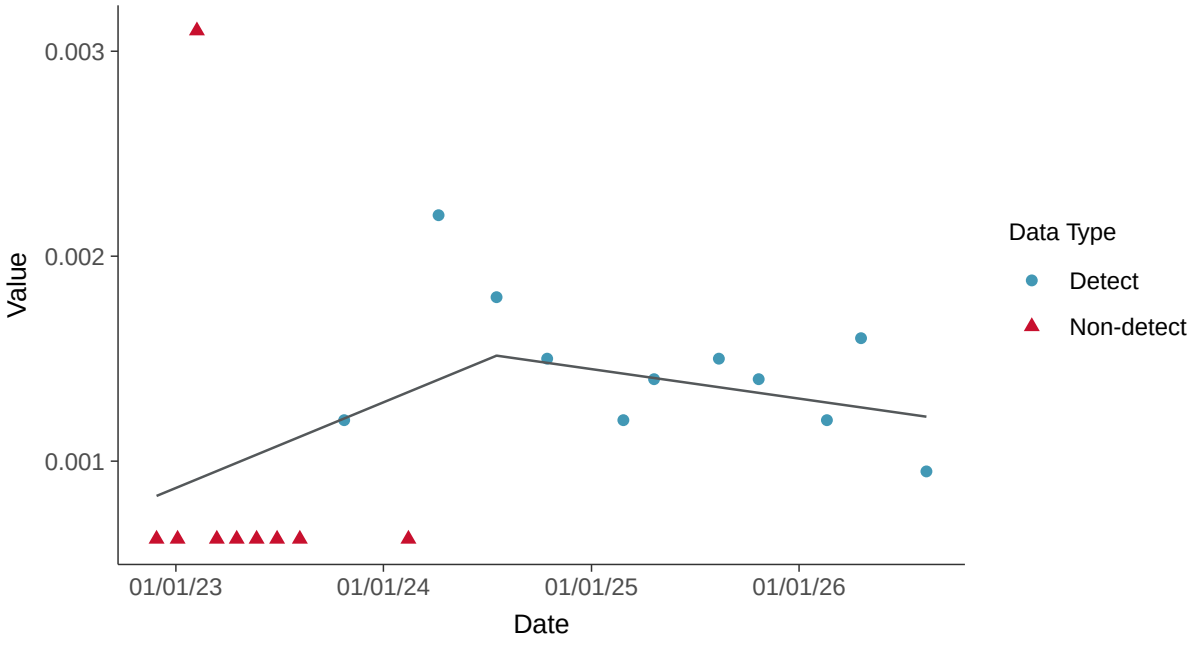
Trend Regression: Lognormal MLE

Vanadium, MW-03 (mg/L)



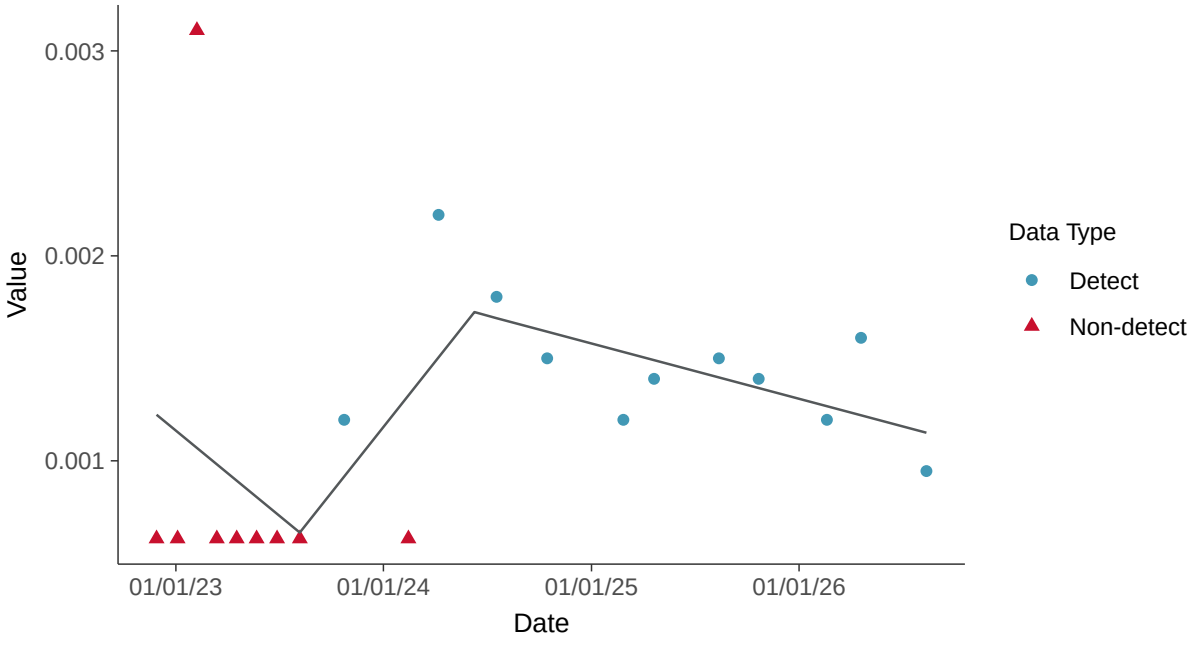
Trend Regression: Piecewise Linear-Linear

Vanadium, MW-03 (mg/L)



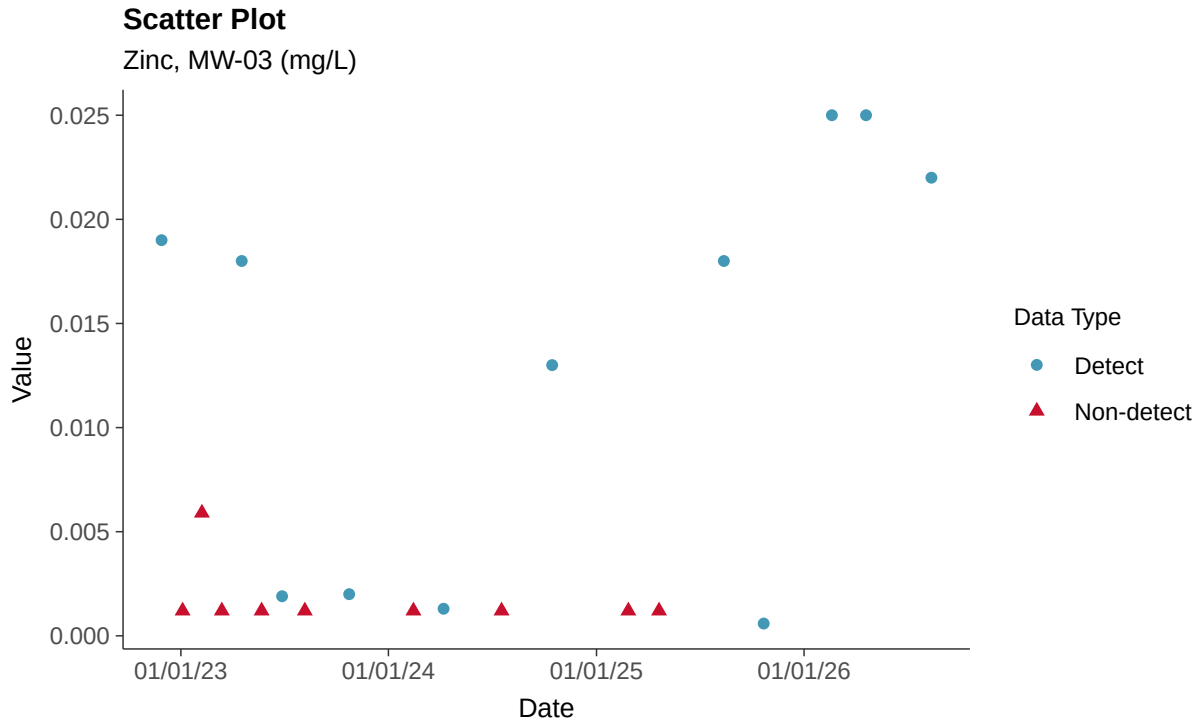
Trend Regression: Piecewise Linear-Linear-Linear

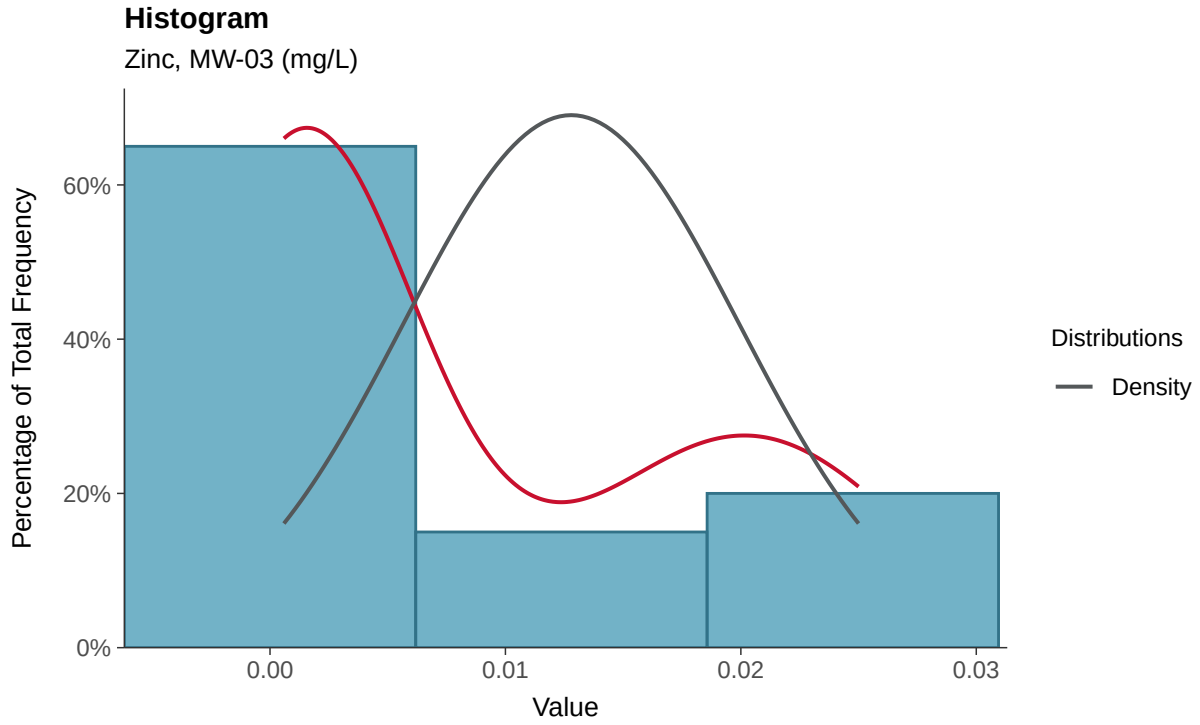
Vanadium, MW-03 (mg/L)



Part 115: Zinc, MW-03

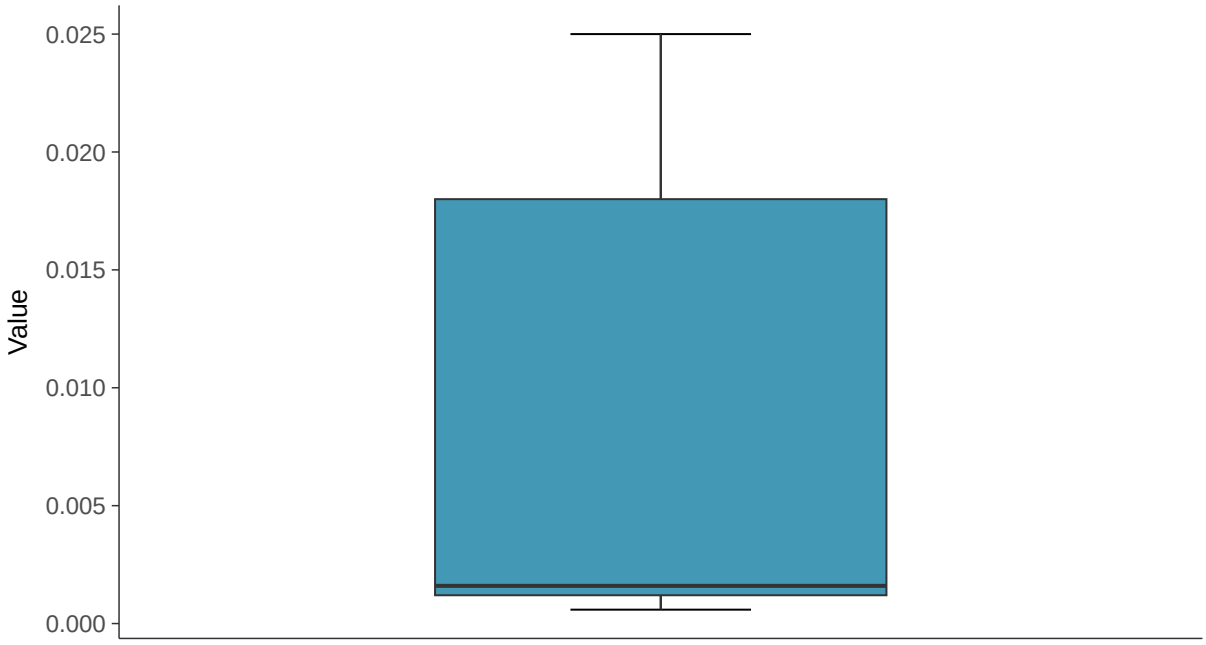
ID: 13_2_5_129





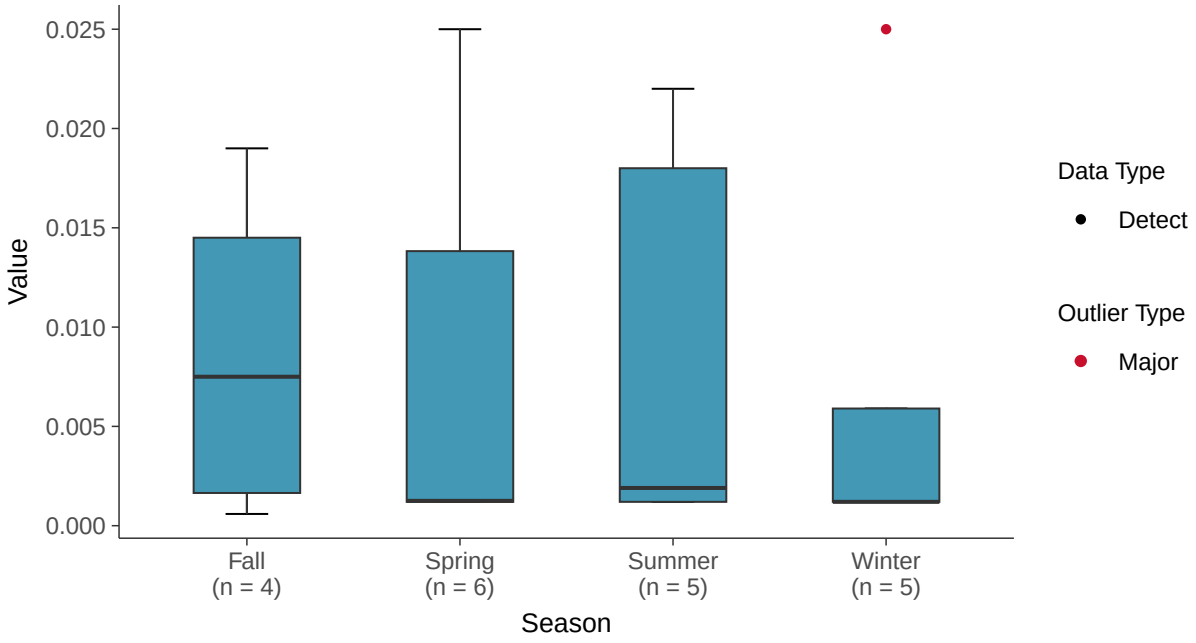
Boxplot

Zinc, MW-03 (mg/L)



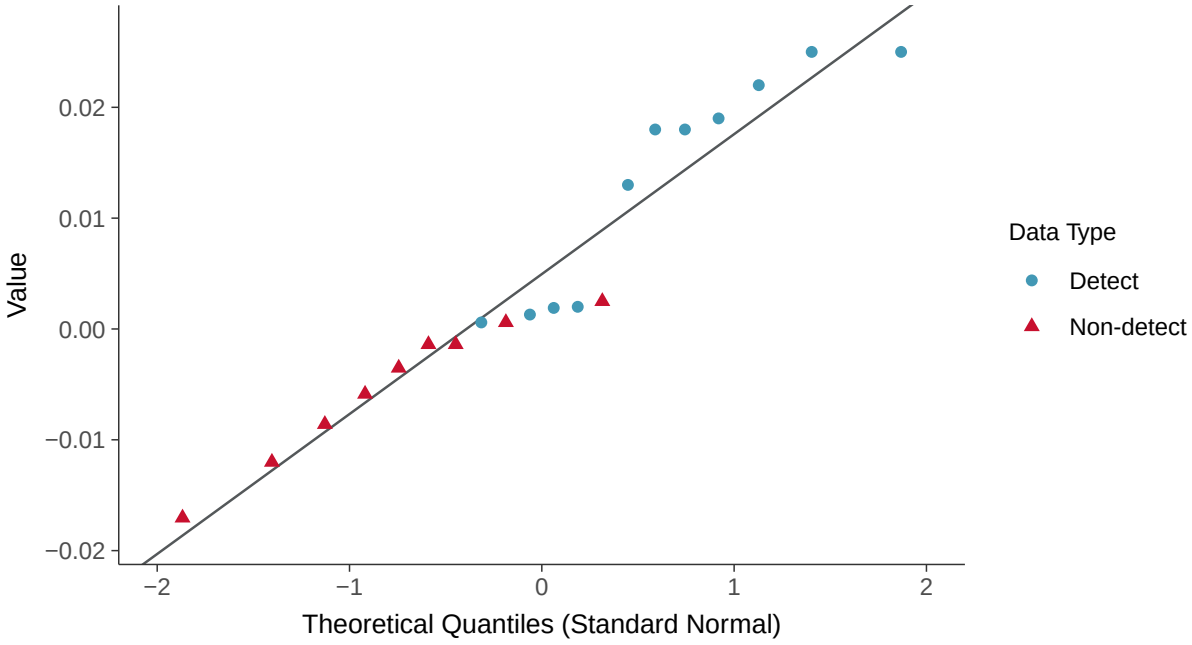
Boxplot by Season

Zinc, MW-03 (mg/L)



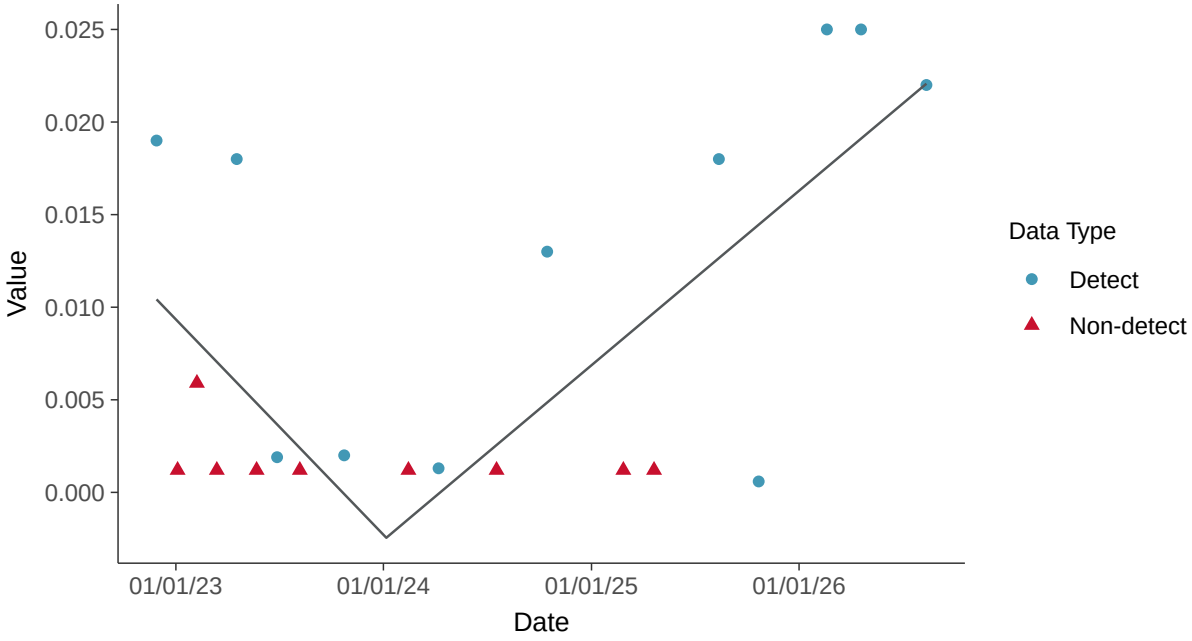
Normal Q-Q plot using ROS Imputed Estimates

Zinc, MW-03 (mg/L)



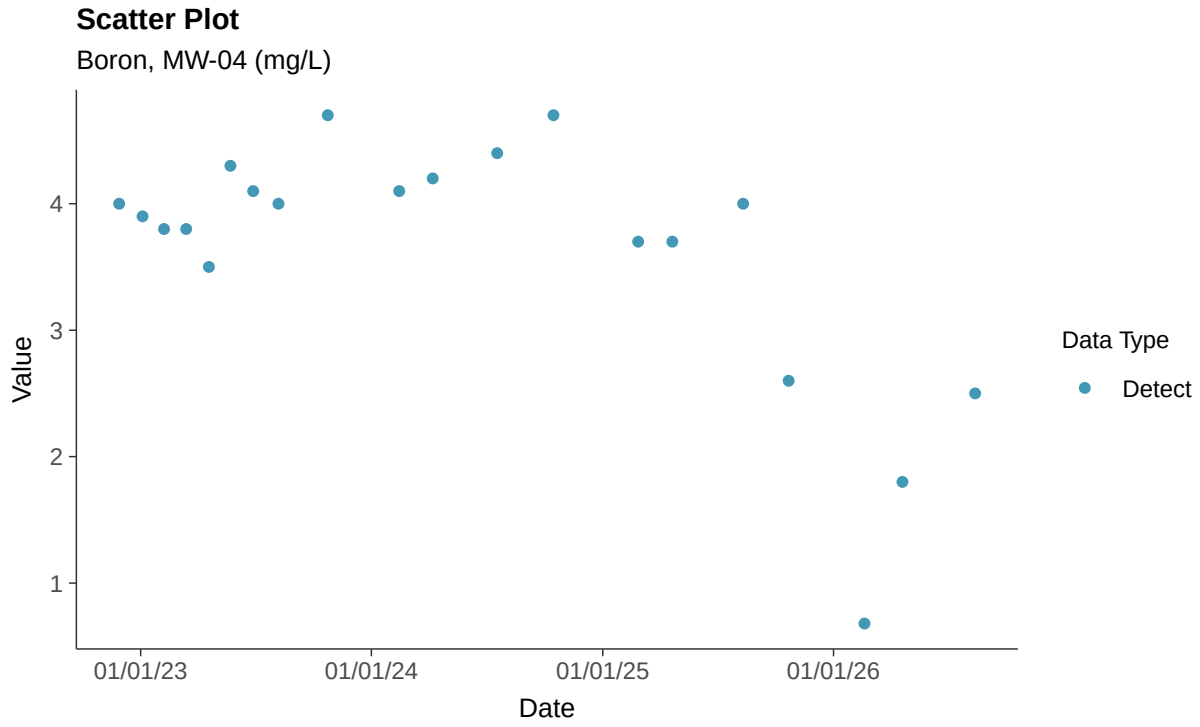
Trend Regression: Piecewise Linear-Linear

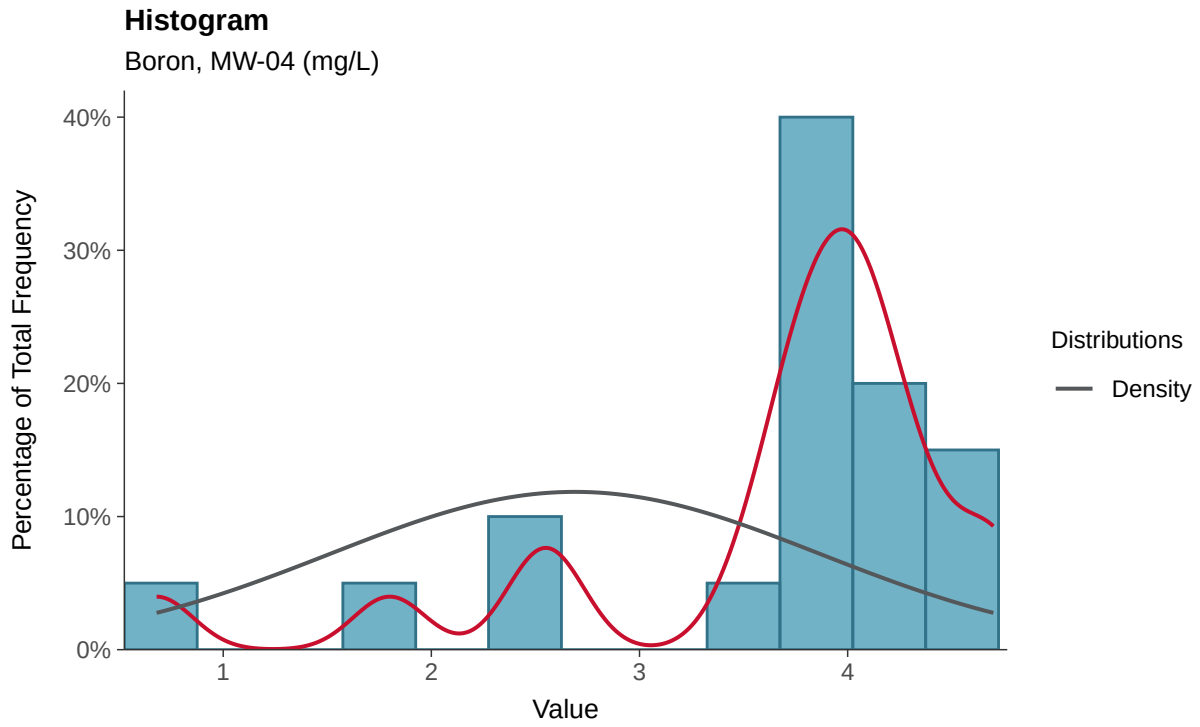
Zinc, MW-03 (mg/L)



Appendix III: Boron, MW-04

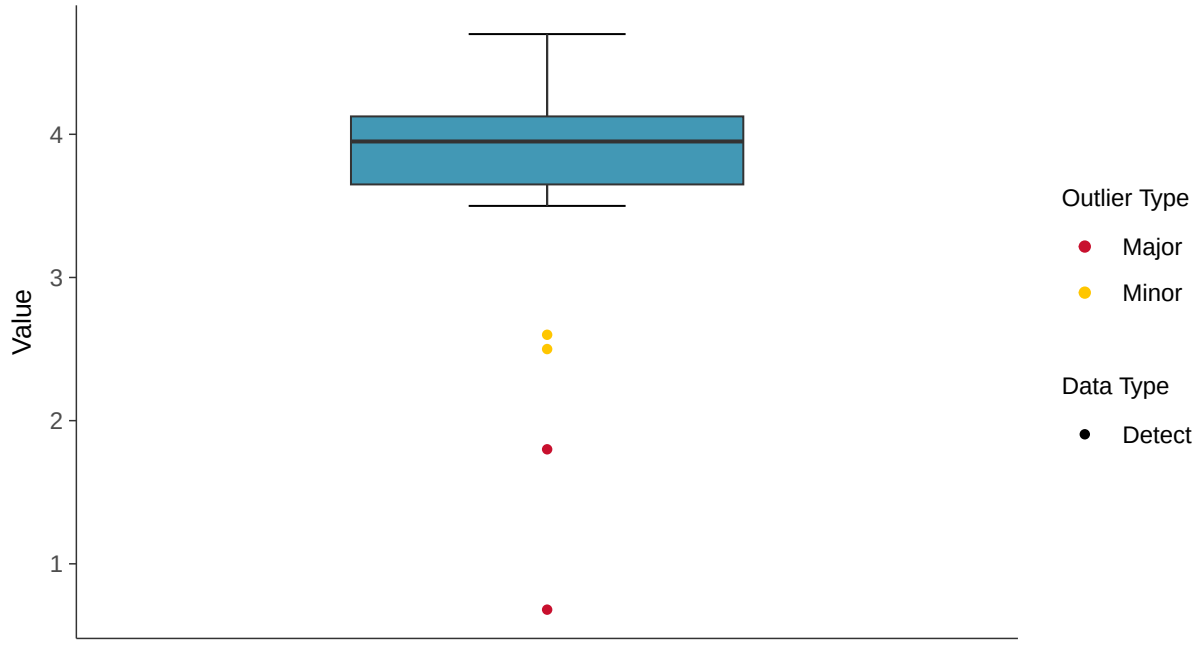
ID: 14_2_3_105





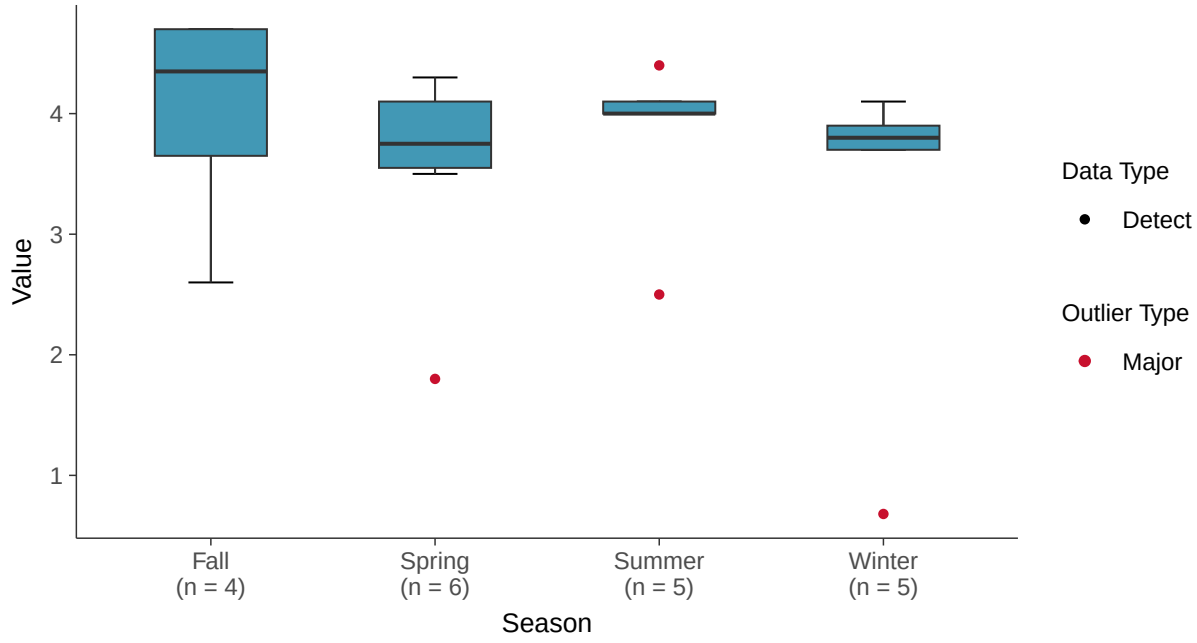
Boxplot

Boron, MW-04 (mg/L)



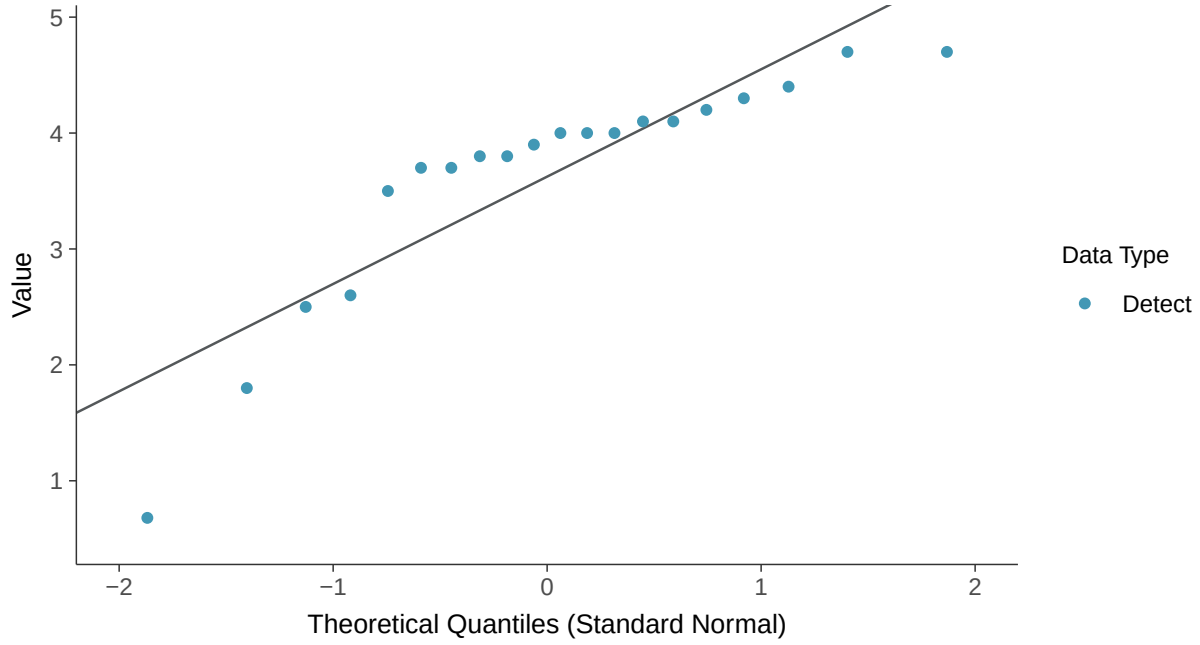
Boxplot by Season

Boron, MW-04 (mg/L)



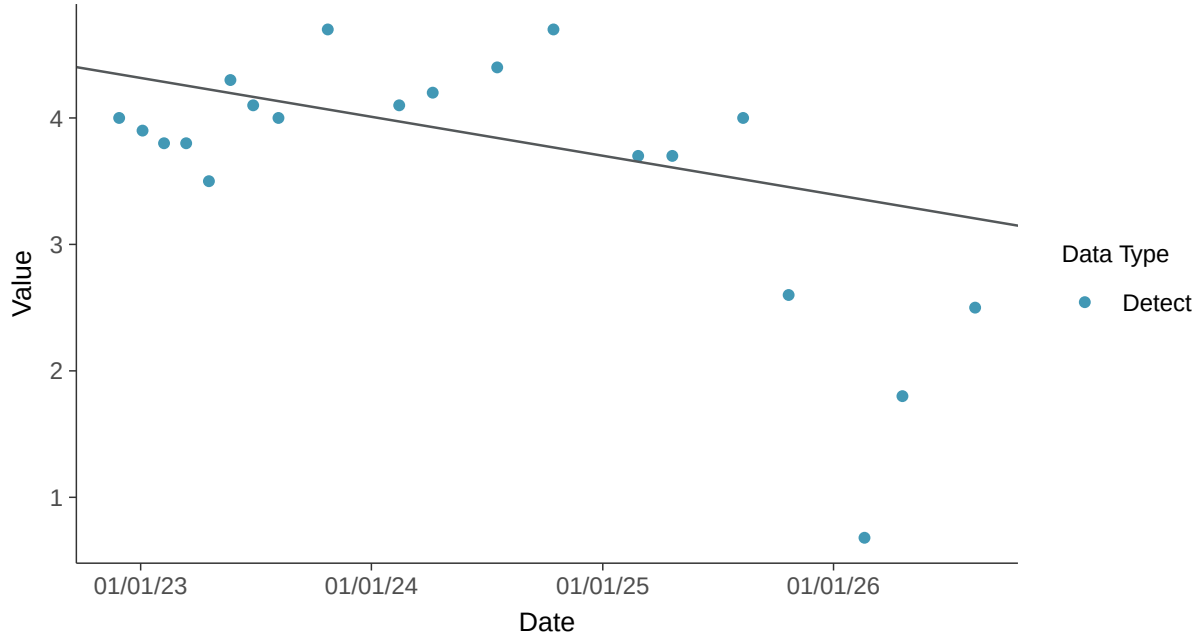
Normal Q-Q plot

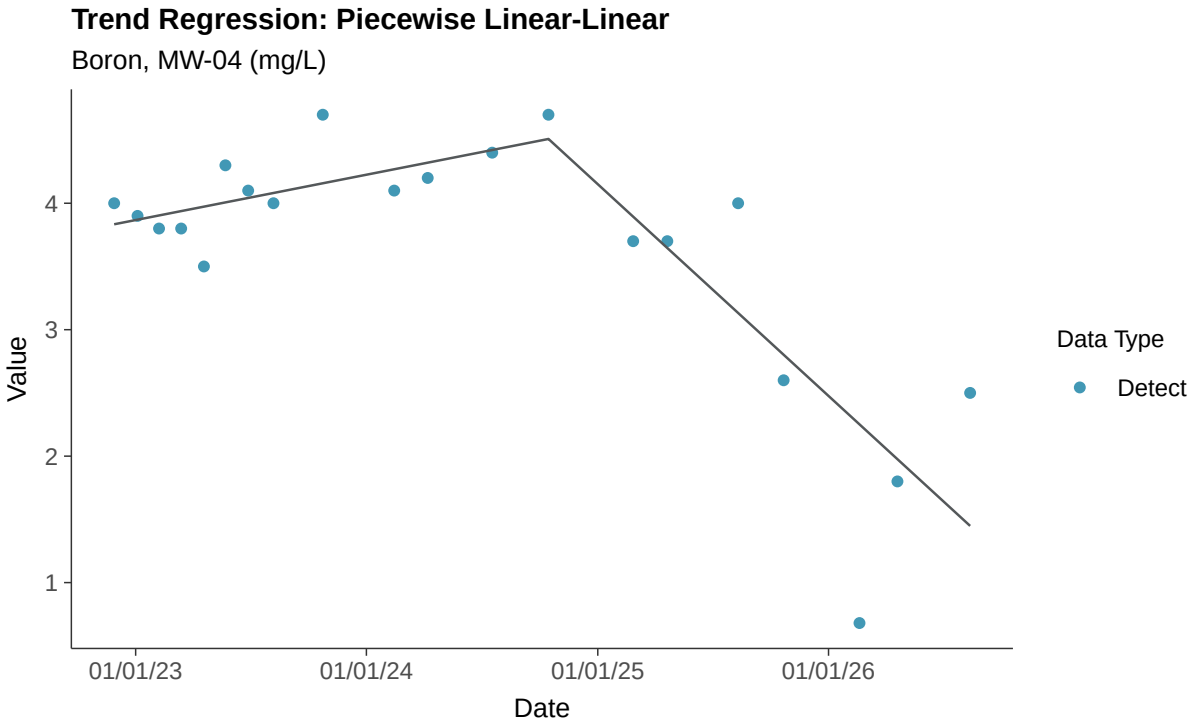
Boron, MW-04 (mg/L)



Trend Regression: Mann-Kendall/Theil-Sen Estimate

Boron, MW-04 (mg/L)



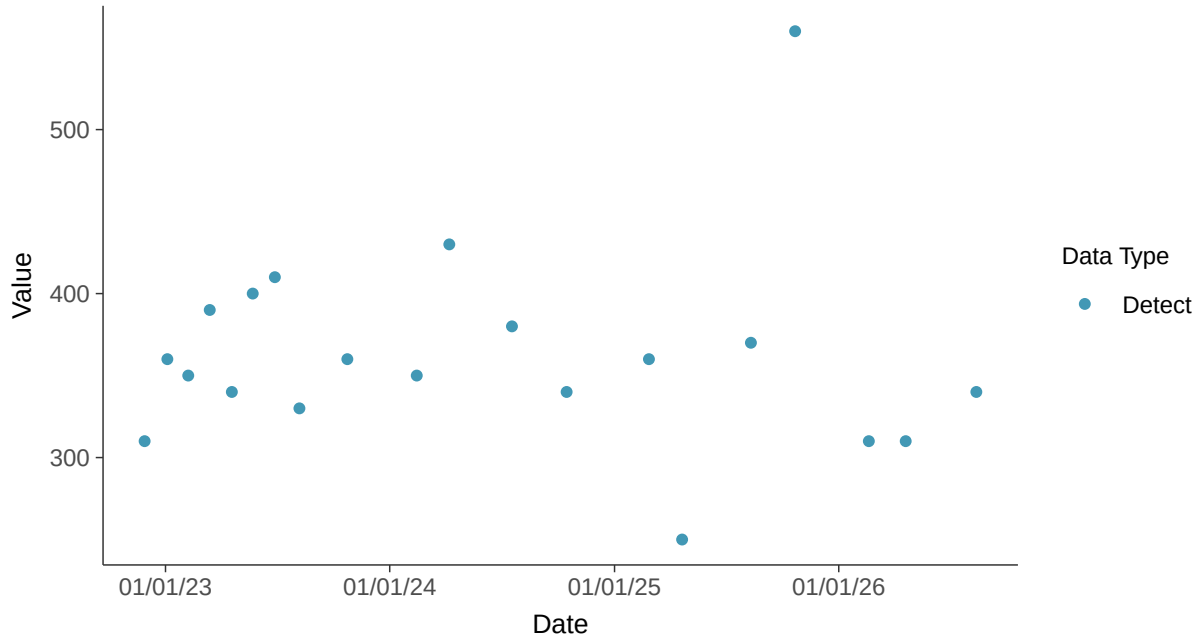

Trend Regression: Piecewise Linear-Linear
Boron, MW-04 (mg/L)
Value
4
3
2
1
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect

Appendix III: Calcium, MW-04

ID: 14_2_3_107

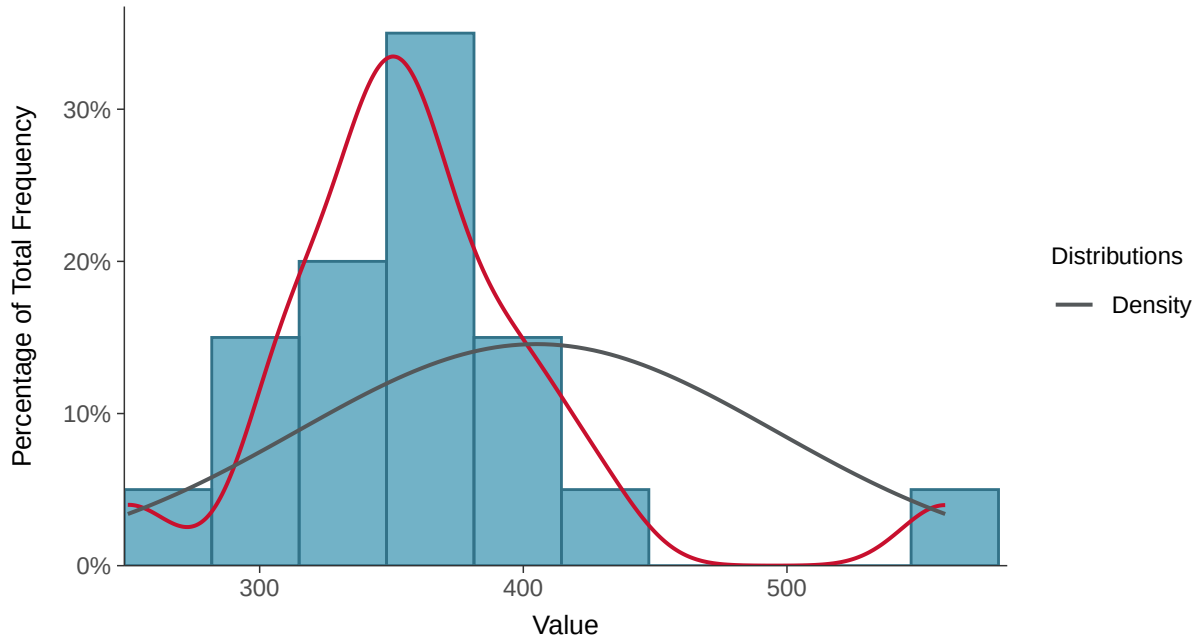
Scatter Plot

Calcium, MW-04 (mg/L)



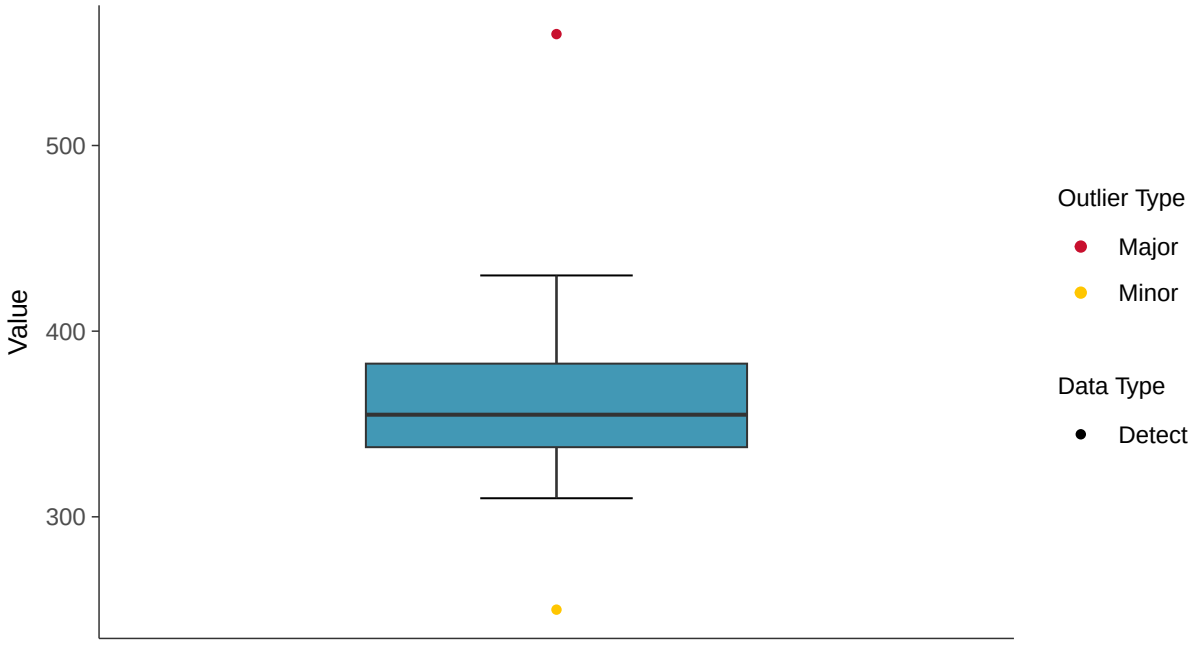
Histogram

Calcium, MW-04 (mg/L)



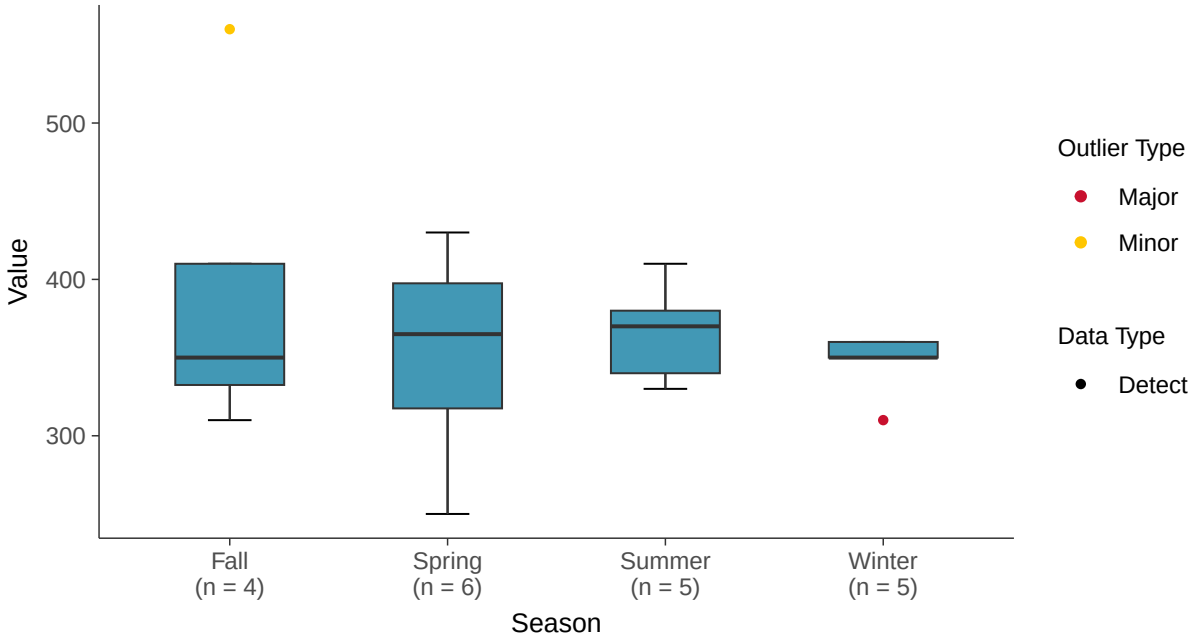
Boxplot

Calcium, MW-04 (mg/L)



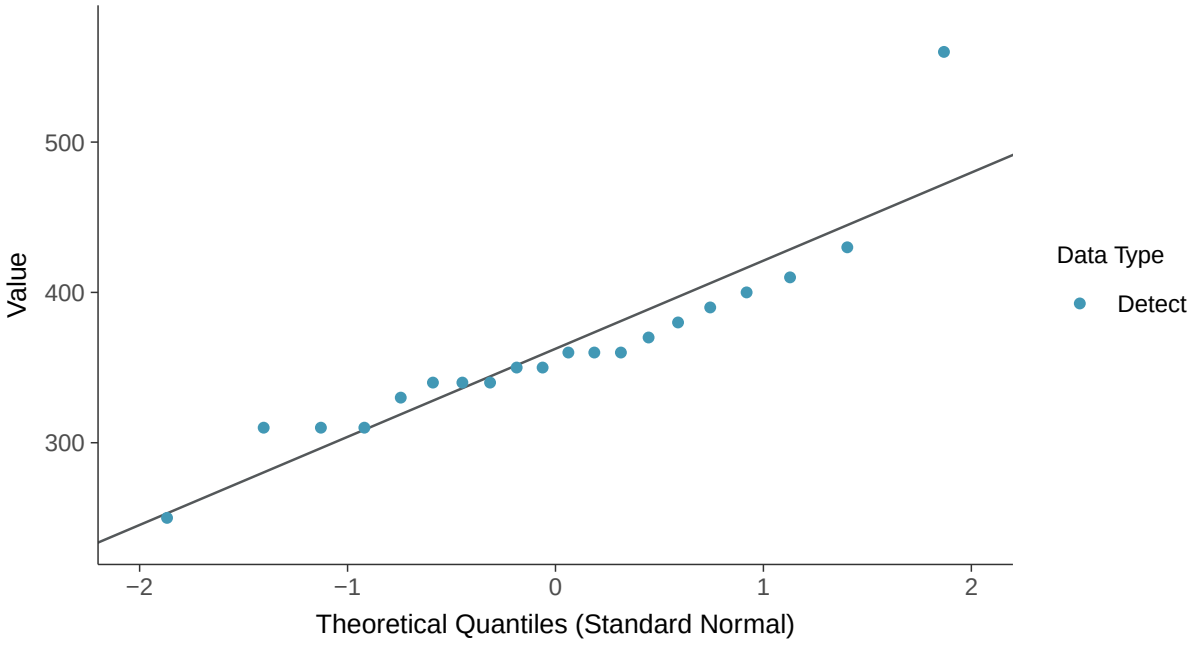
Boxplot by Season

Calcium, MW-04 (mg/L)



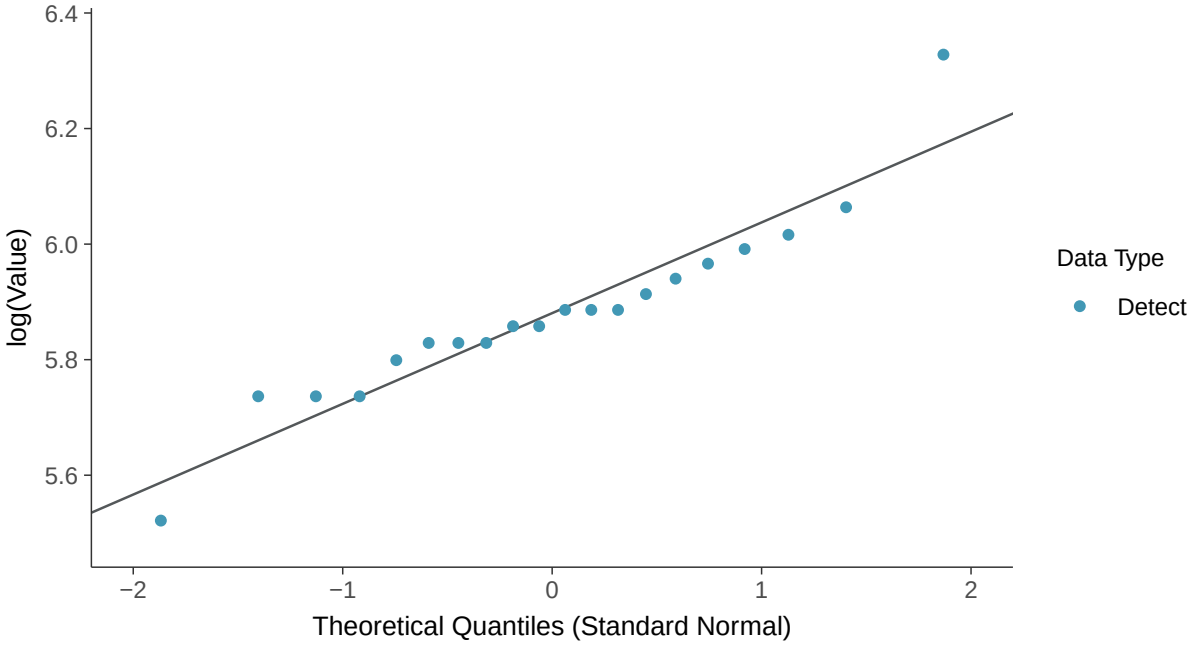
Normal Q-Q plot

Calcium, MW-04 (mg/L)



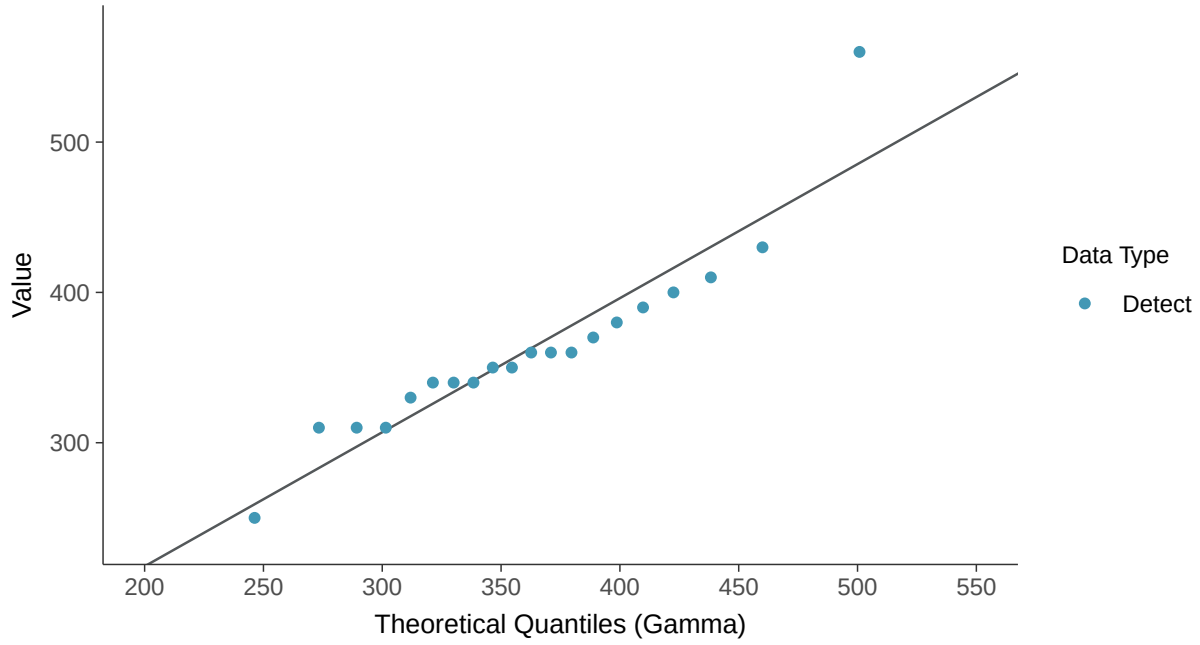
Lognormal Q-Q plot

Calcium, MW-04 (mg/L)



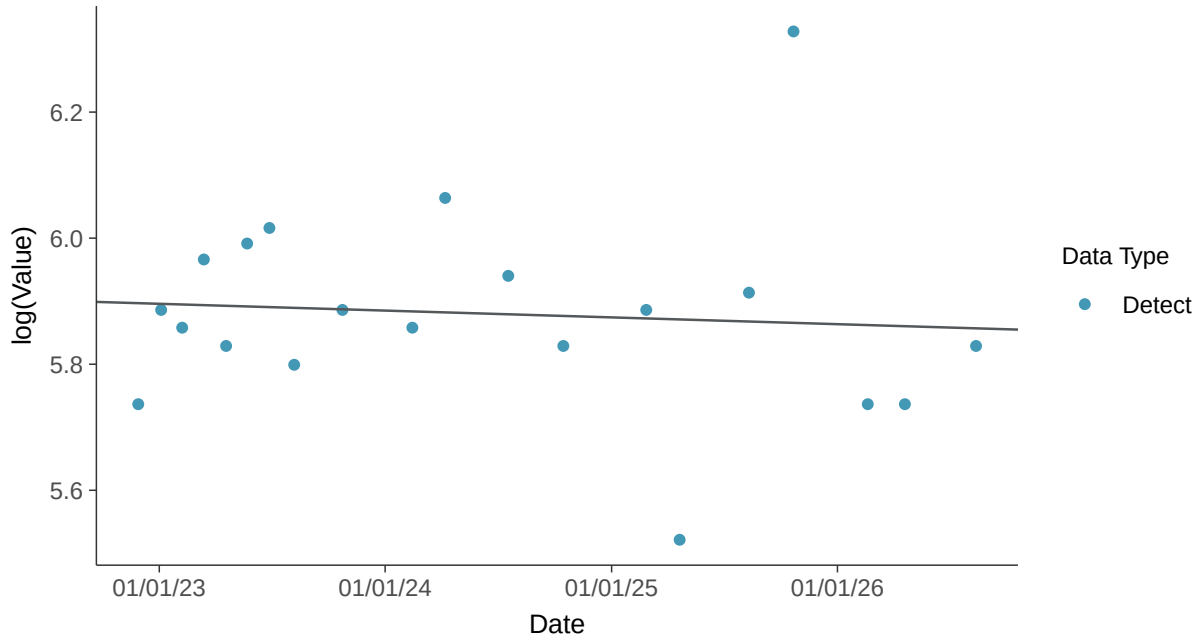
Gamma Q-Q plot

Calcium, MW-04 (mg/L)



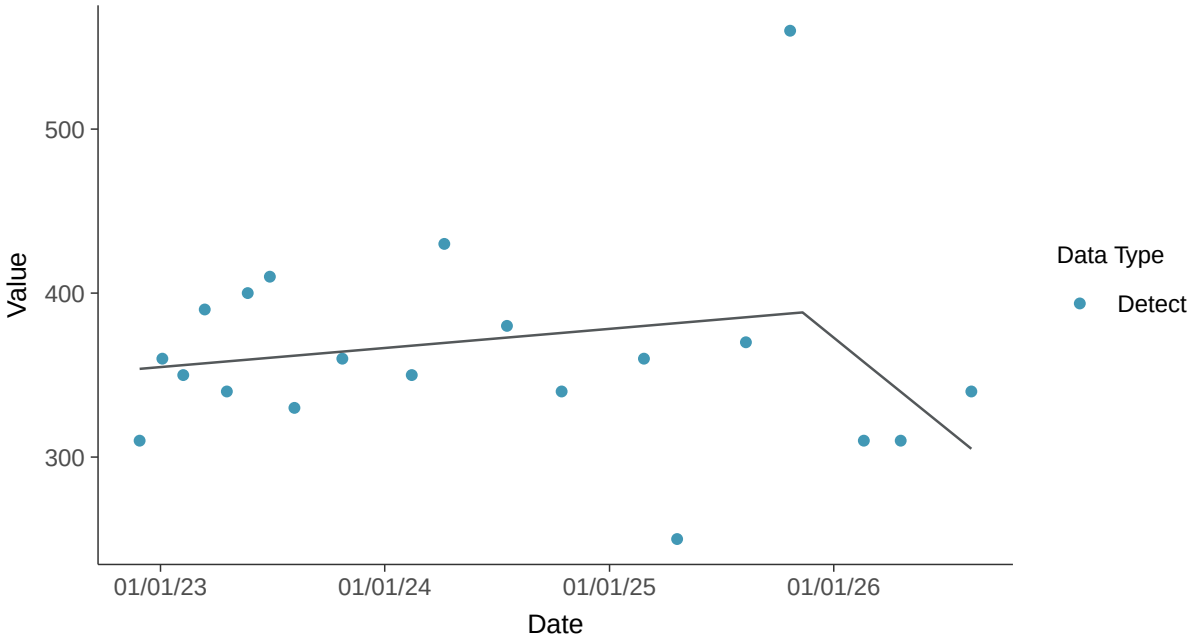
Trend Regression: Lognormal MLE

Calcium, MW-04 (mg/L)



Trend Regression: Piecewise Linear-Linear

Calcium, MW-04 (mg/L)

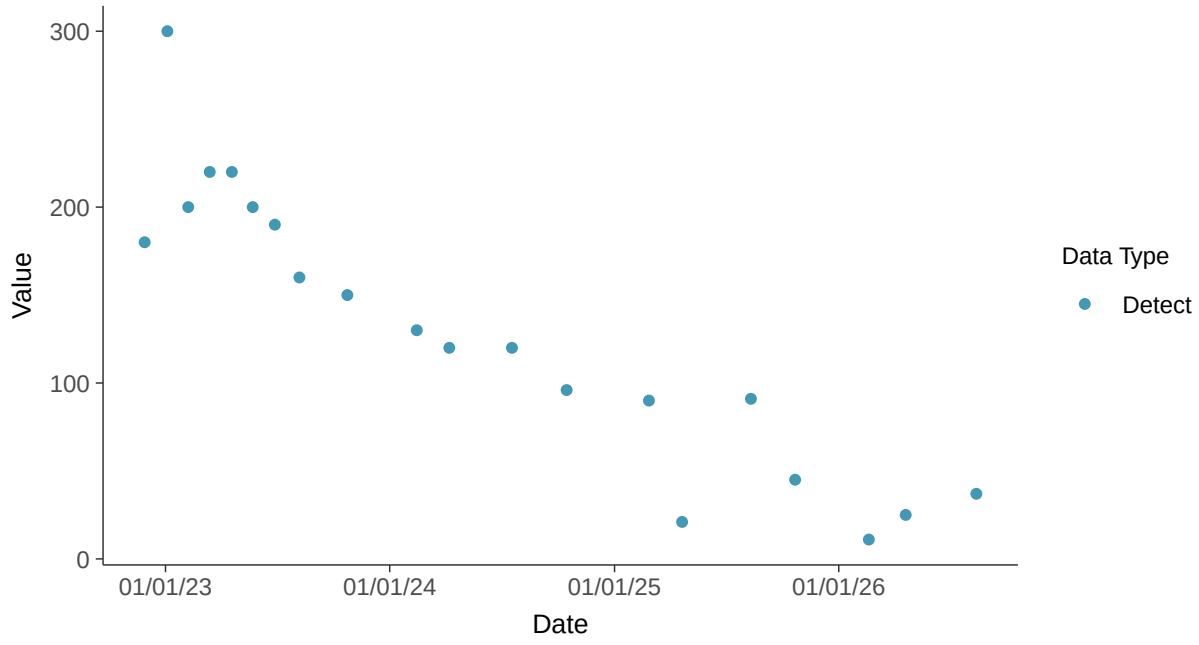


Appendix III: Chloride (as Cl), MW-04

ID: 14_2_3_108

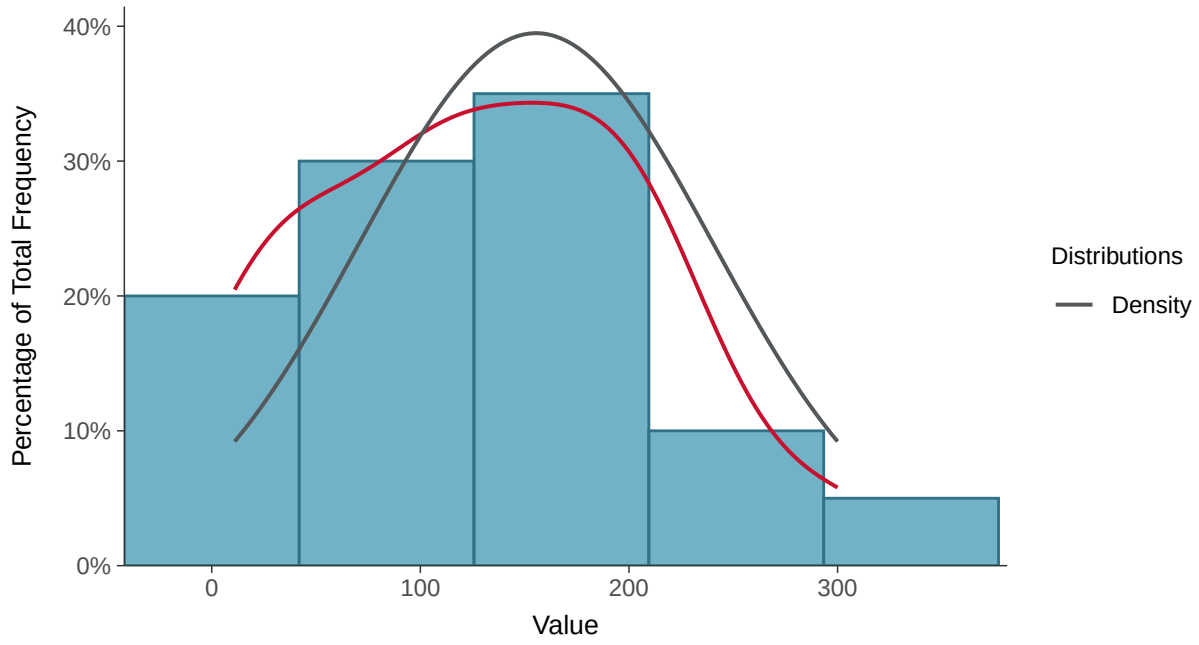
Scatter Plot

Chloride (as Cl), MW-04 (mg/L)



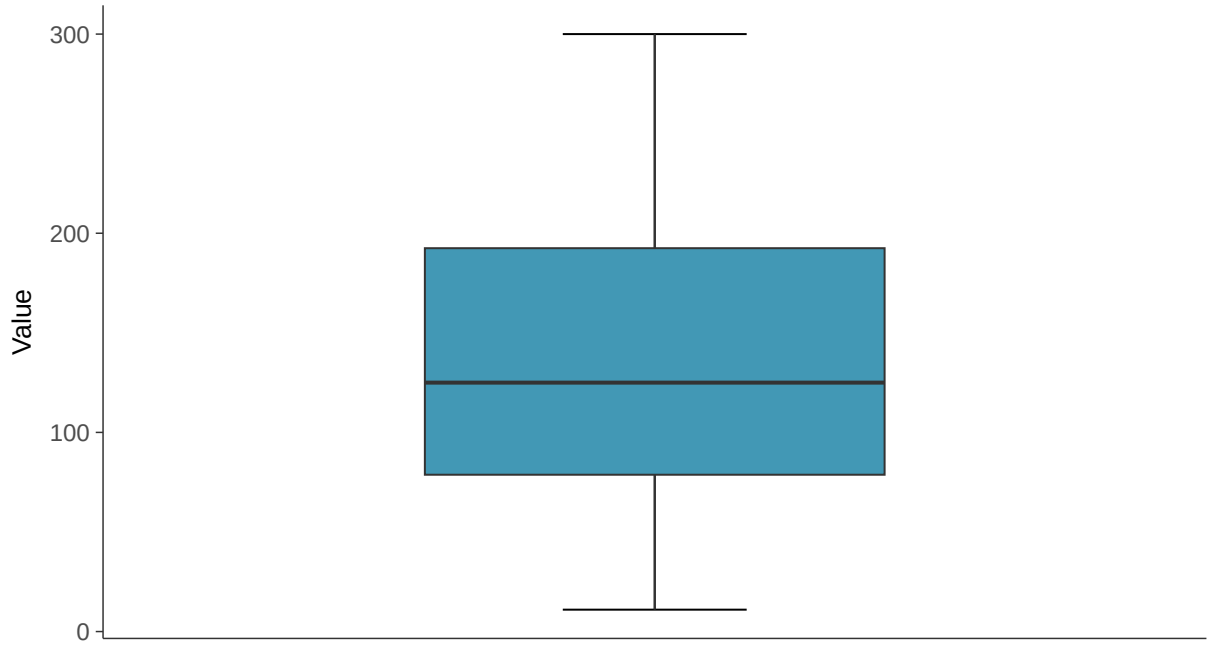
Histogram

Chloride (as Cl), MW-04 (mg/L)



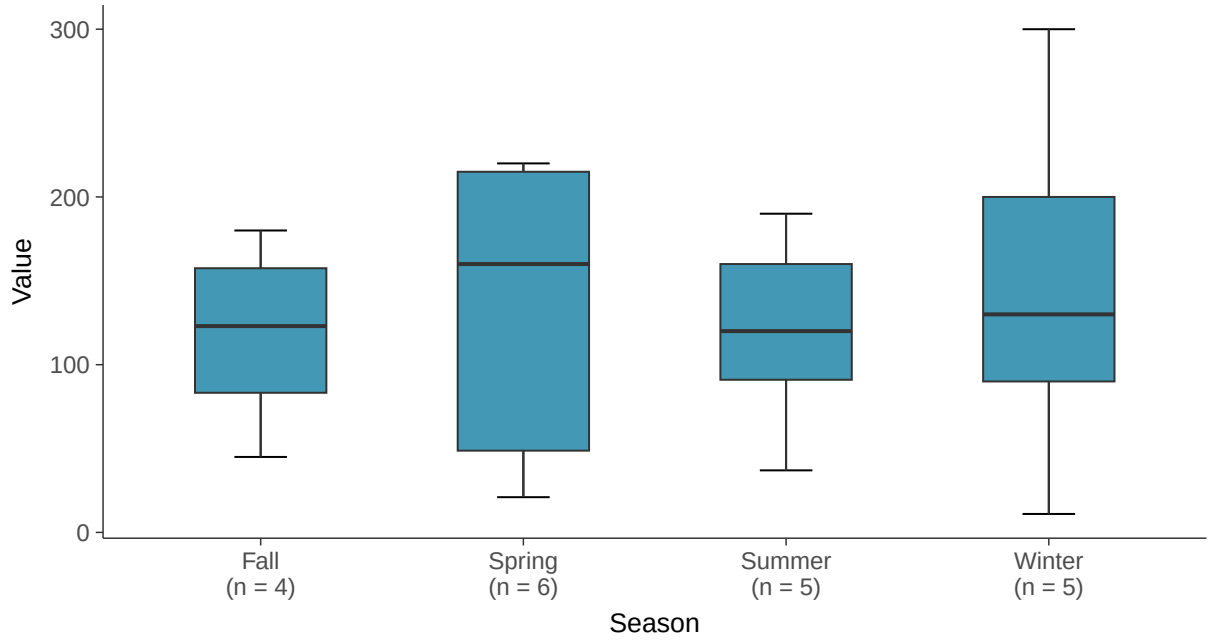
Boxplot

Chloride (as Cl), MW-04 (mg/L)



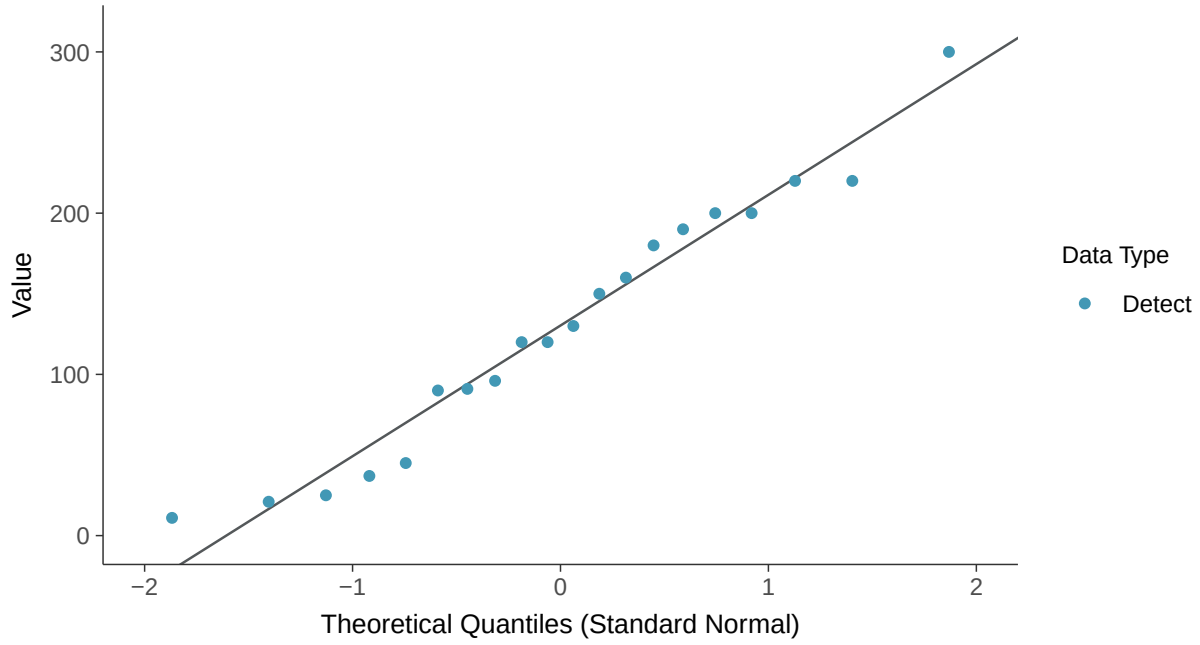
Boxplot by Season

Chloride (as Cl), MW-04 (mg/L)



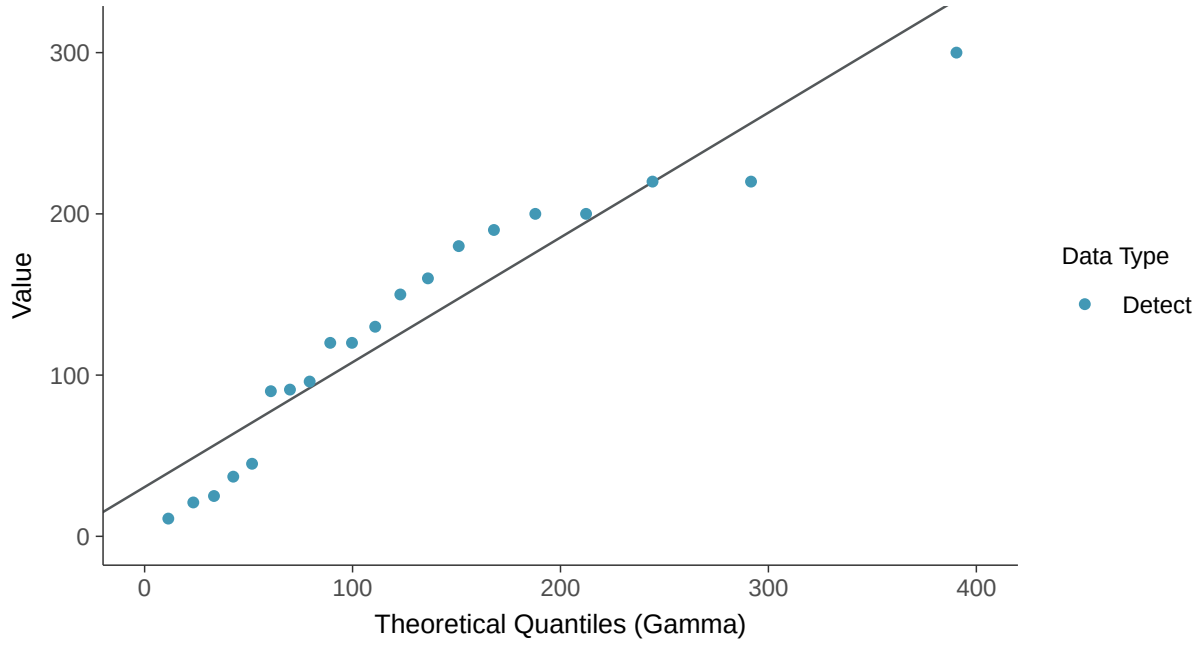
Normal Q-Q plot

Chloride (as Cl), MW-04 (mg/L)



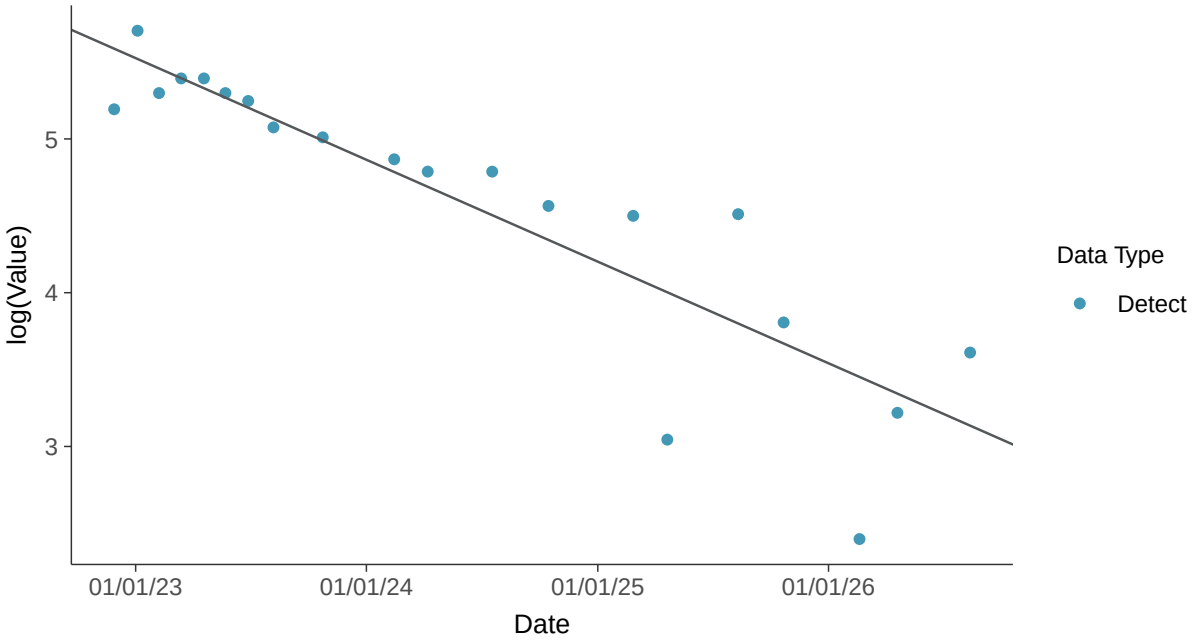
Gamma Q-Q plot

Chloride (as Cl), MW-04 (mg/L)



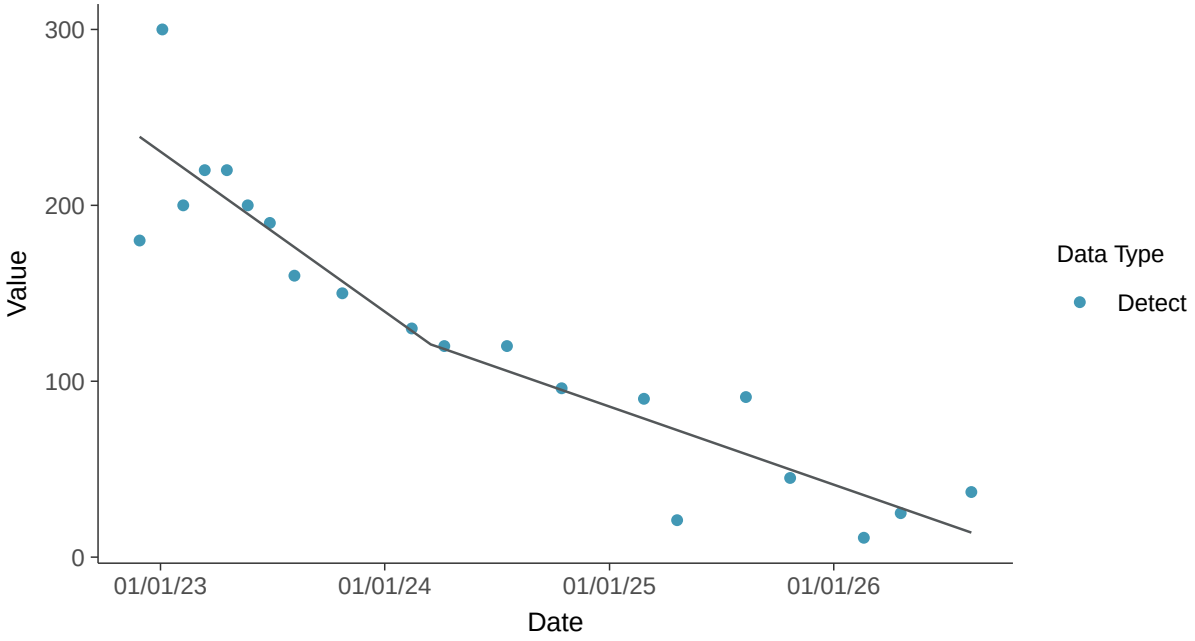
Trend Regression: Lognormal MLE

Chloride (as Cl), MW-04 (mg/L)



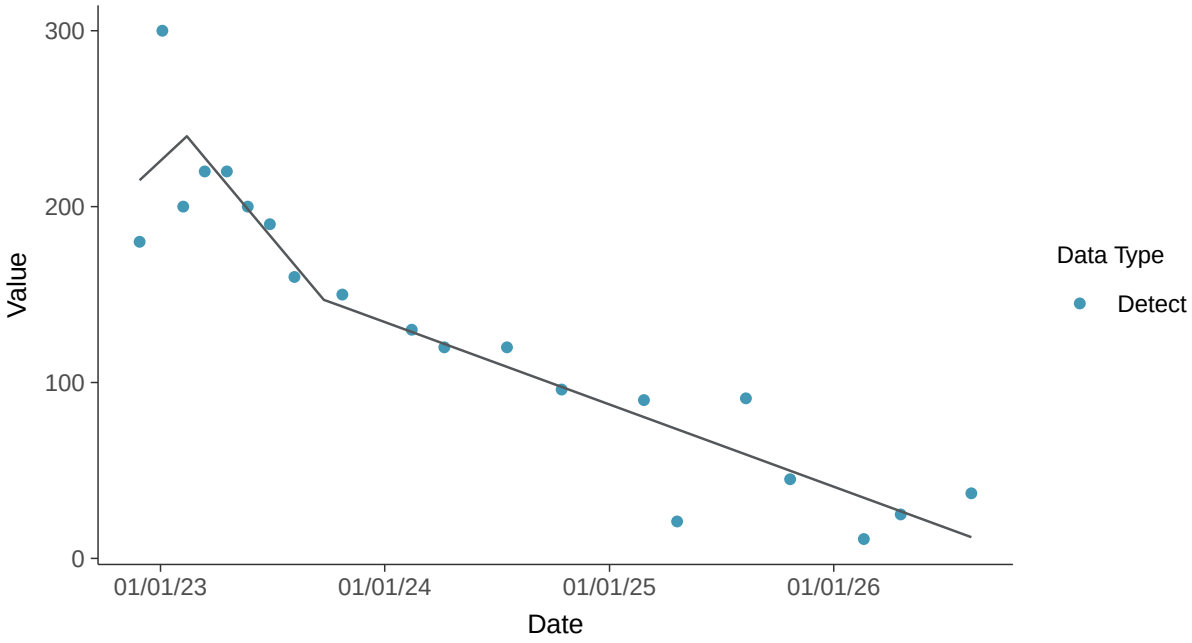
Trend Regression: Piecewise Linear-Linear

Chloride (as Cl), MW-04 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Chloride (as Cl), MW-04 (mg/L)

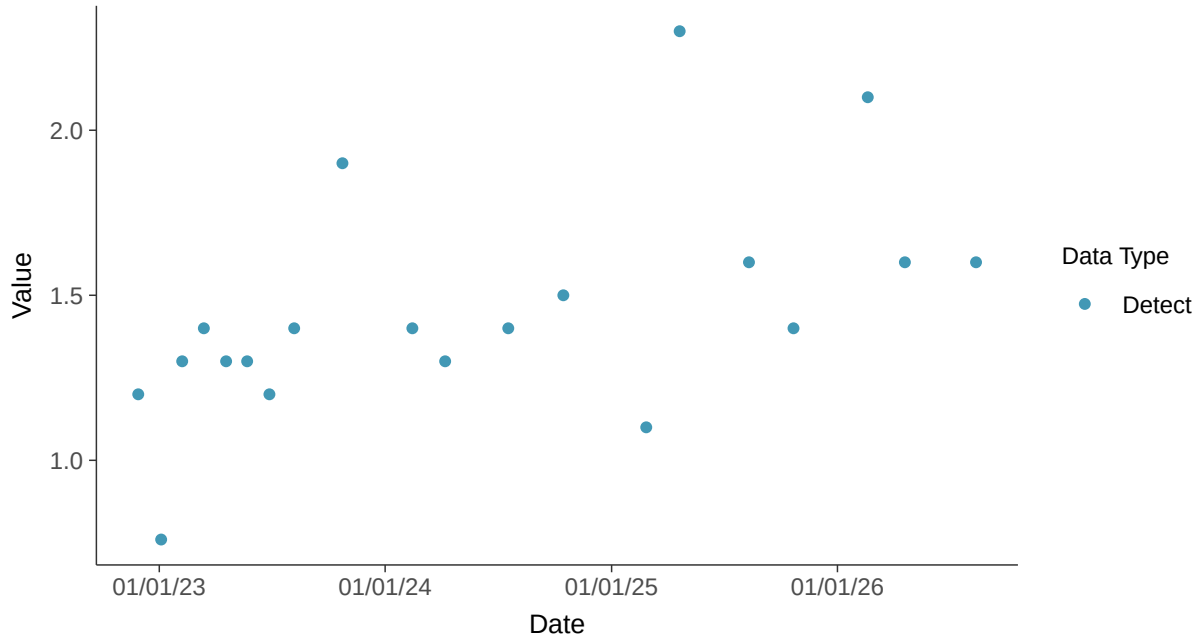


Appendix III: Fluoride, MW-04

ID: 14_2_3_112

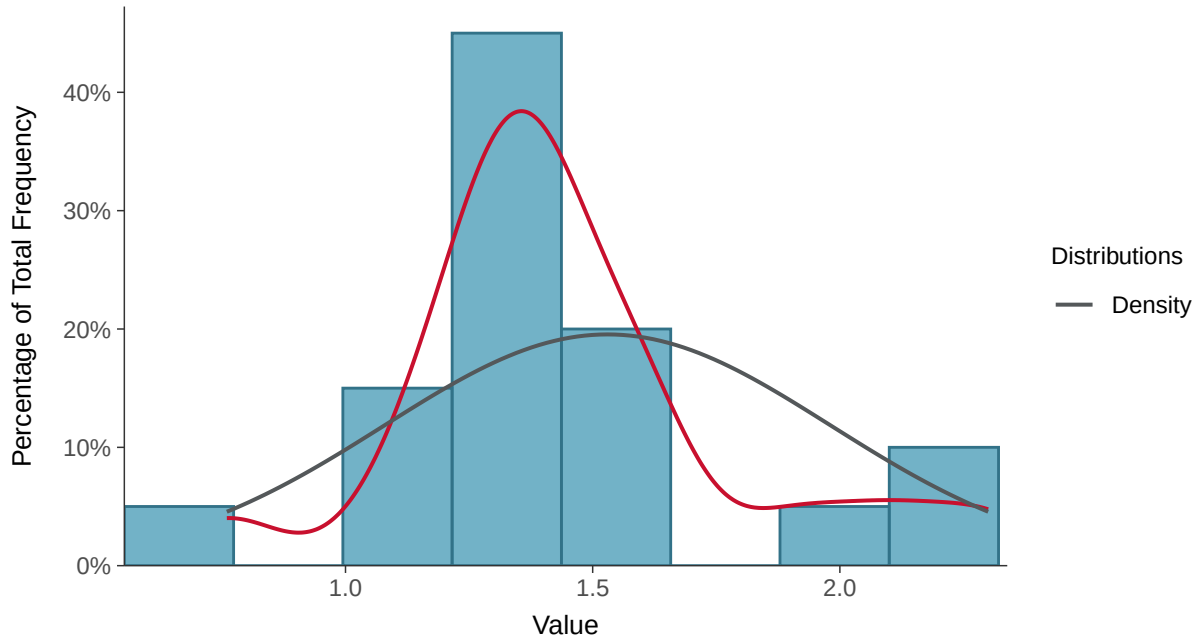
Scatter Plot

Fluoride, MW-04 (mg/L)



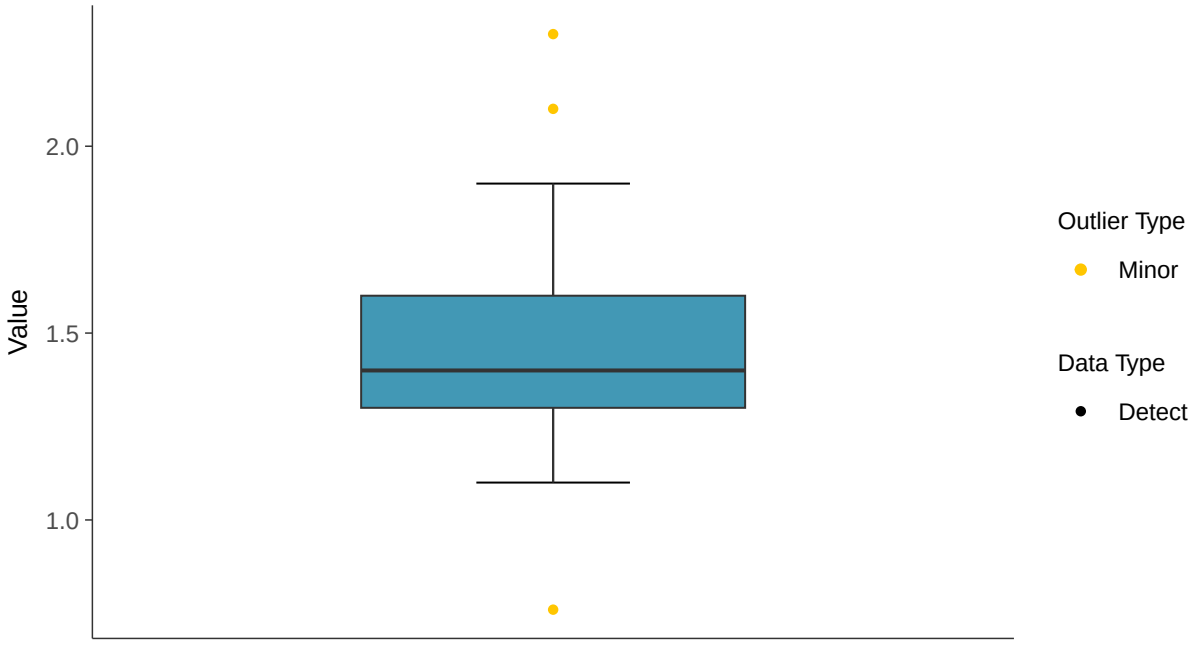
Histogram

Fluoride, MW-04 (mg/L)



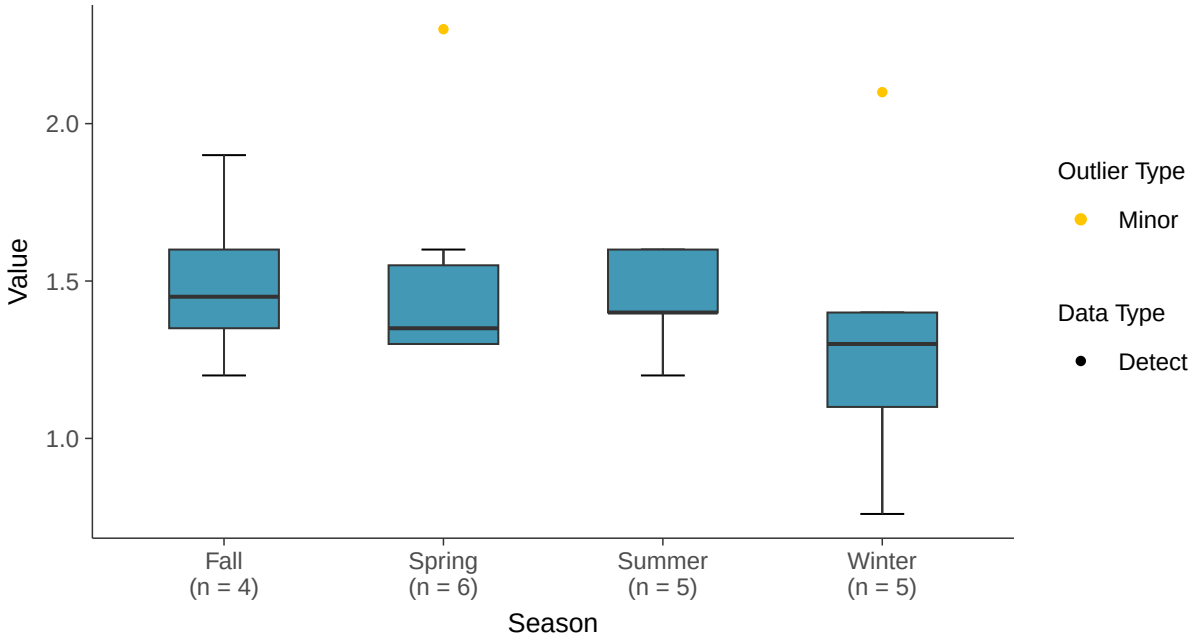
Boxplot

Fluoride, MW-04 (mg/L)



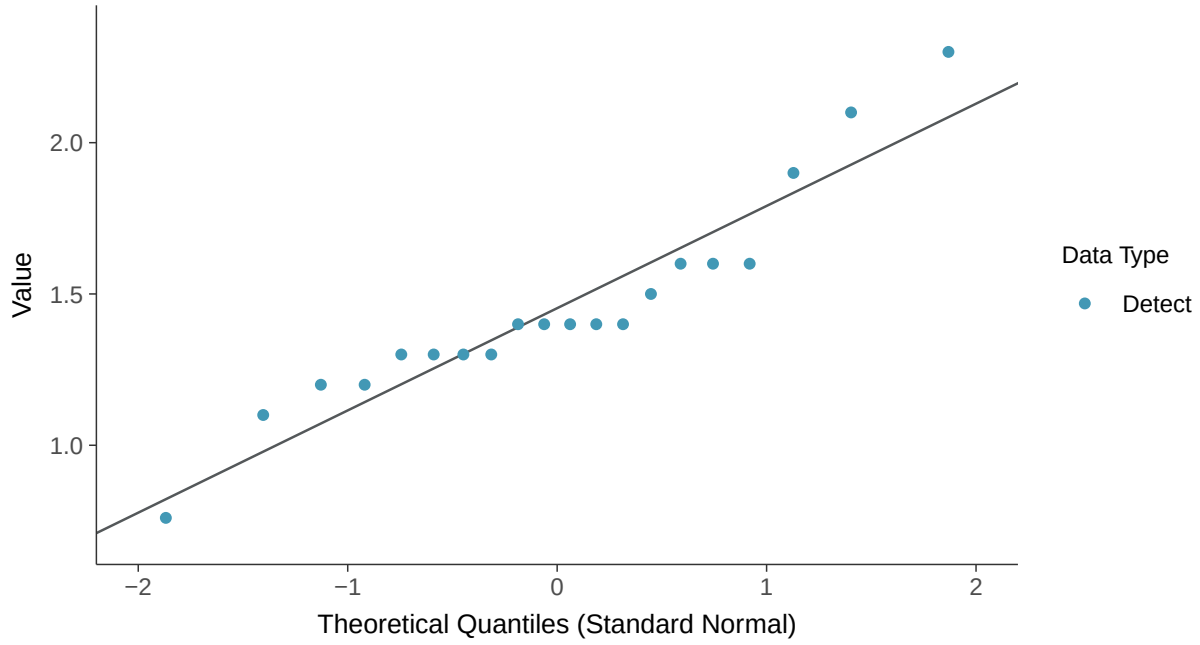
Boxplot by Season

Fluoride, MW-04 (mg/L)



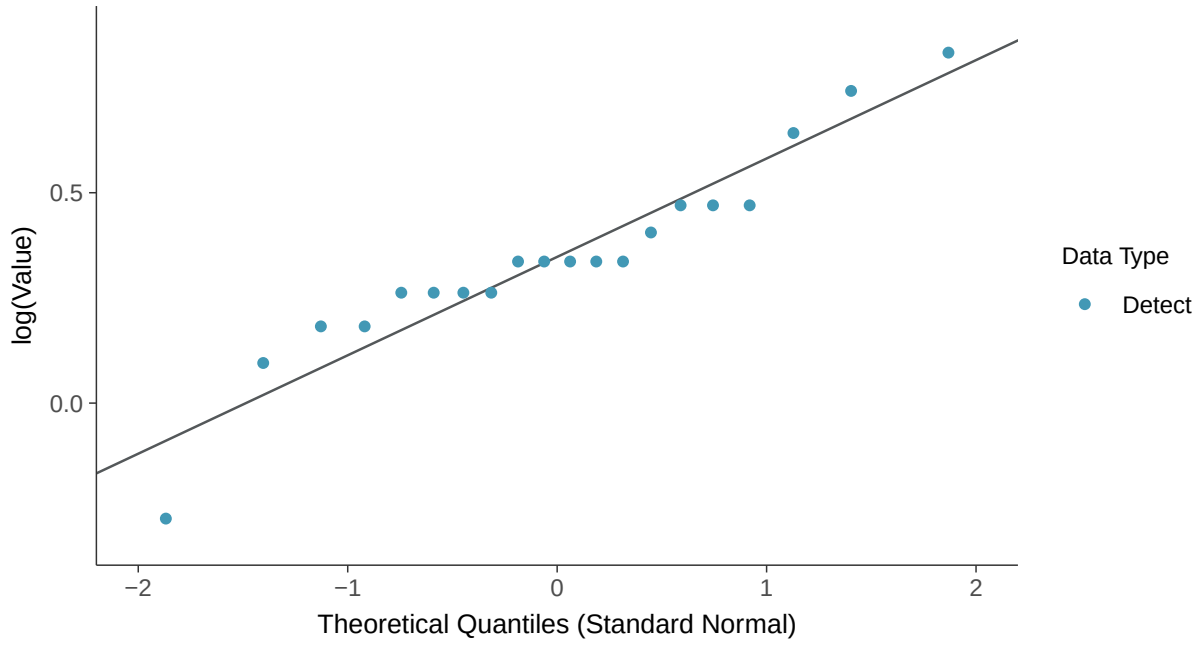
Normal Q-Q plot

Fluoride, MW-04 (mg/L)



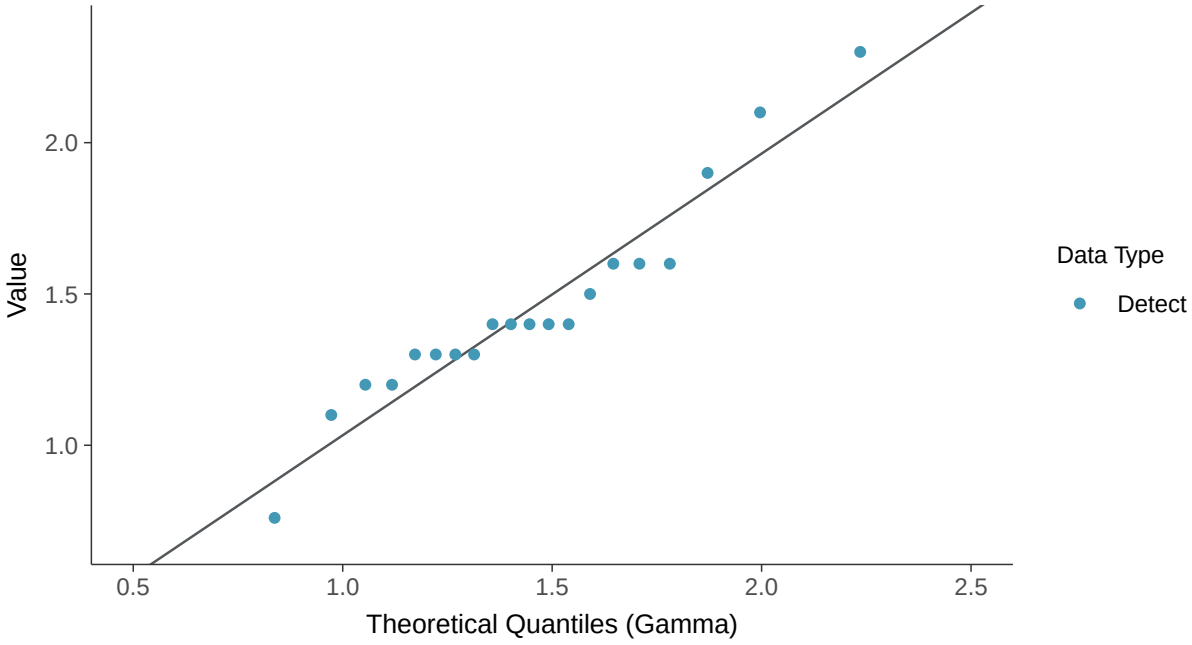
Lognormal Q-Q plot

Fluoride, MW-04 (mg/L)



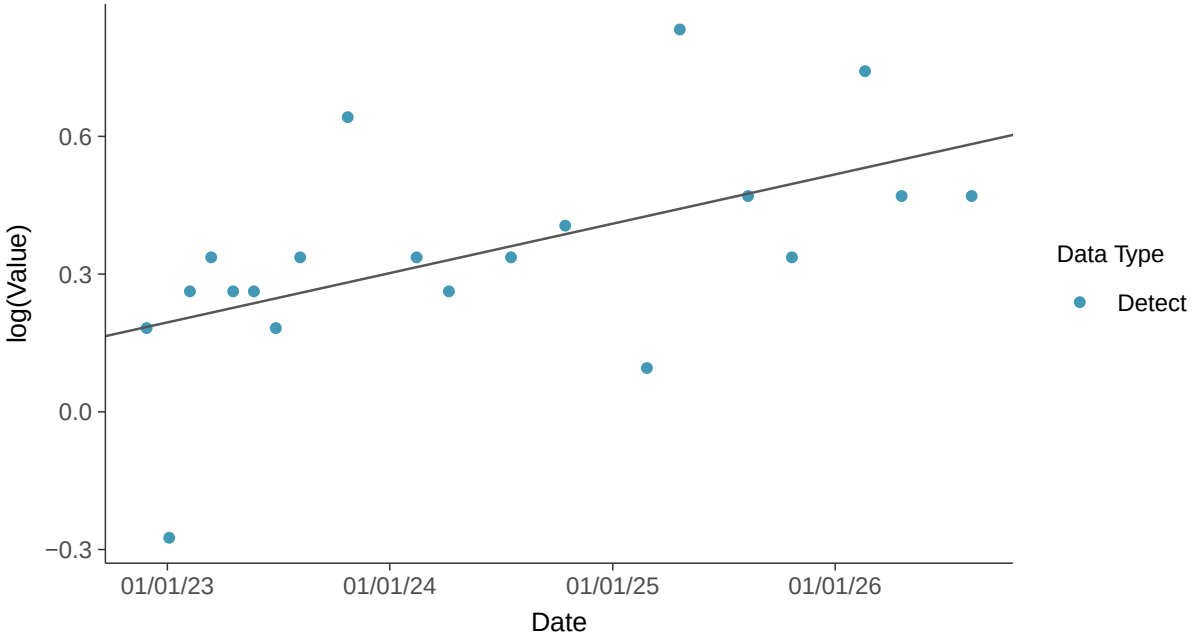
Gamma Q-Q plot

Fluoride, MW-04 (mg/L)



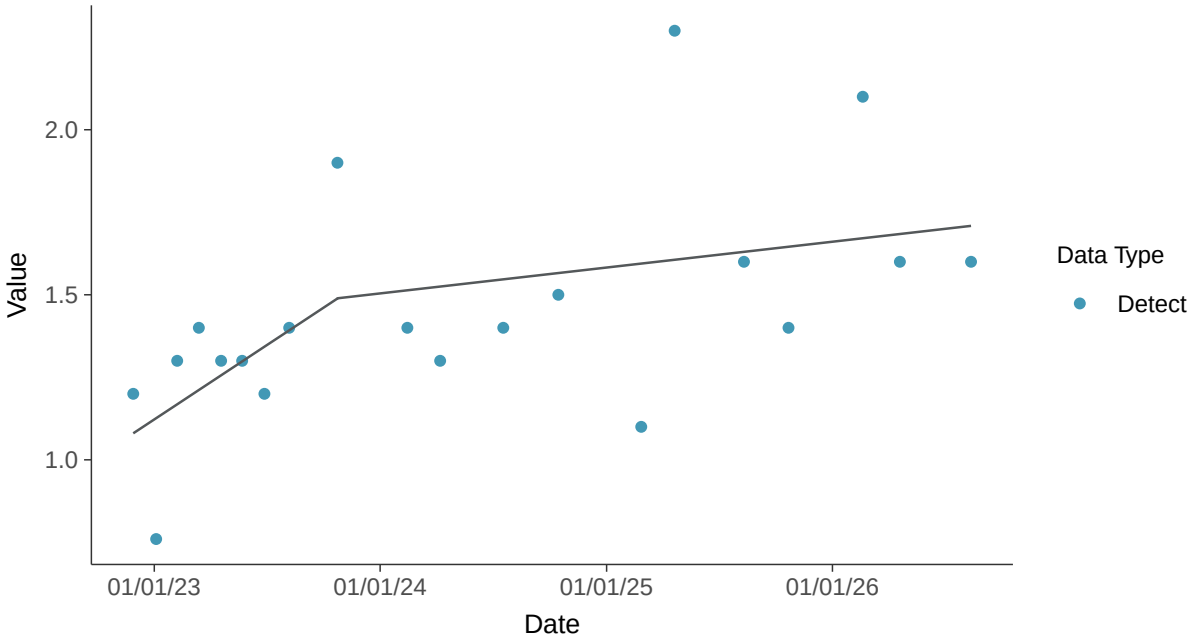
Trend Regression: Lognormal MLE

Fluoride, MW-04 (mg/L)



Trend Regression: Piecewise Linear-Linear

Fluoride, MW-04 (mg/L)

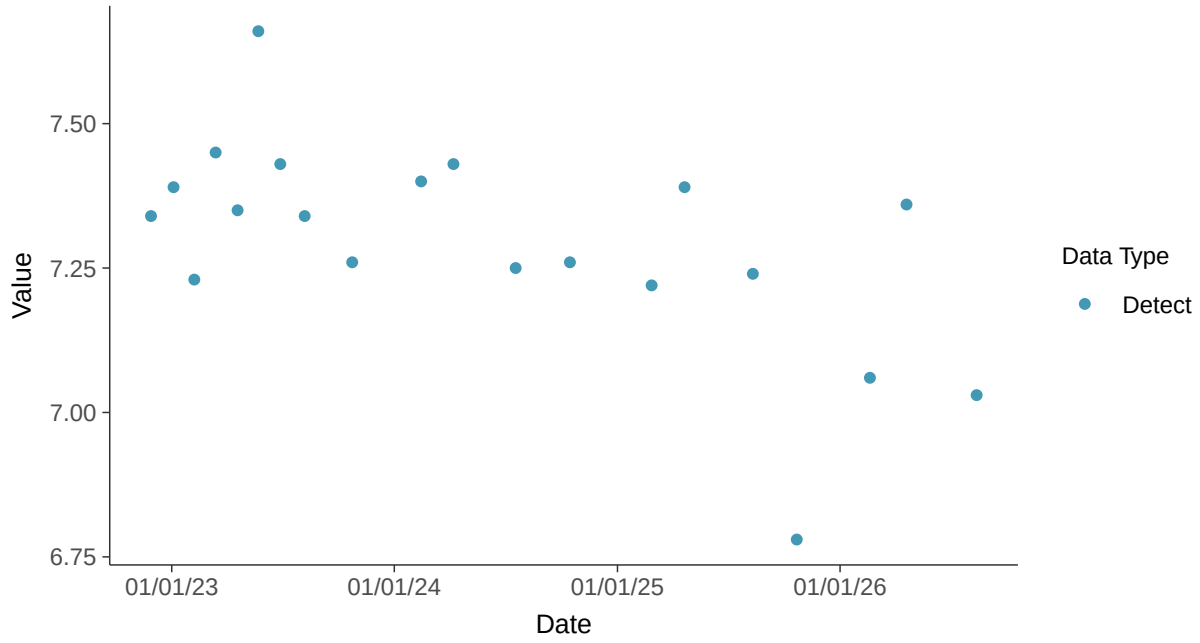


Appendix III: pH (field), MW-04

ID: 14_2_3_120

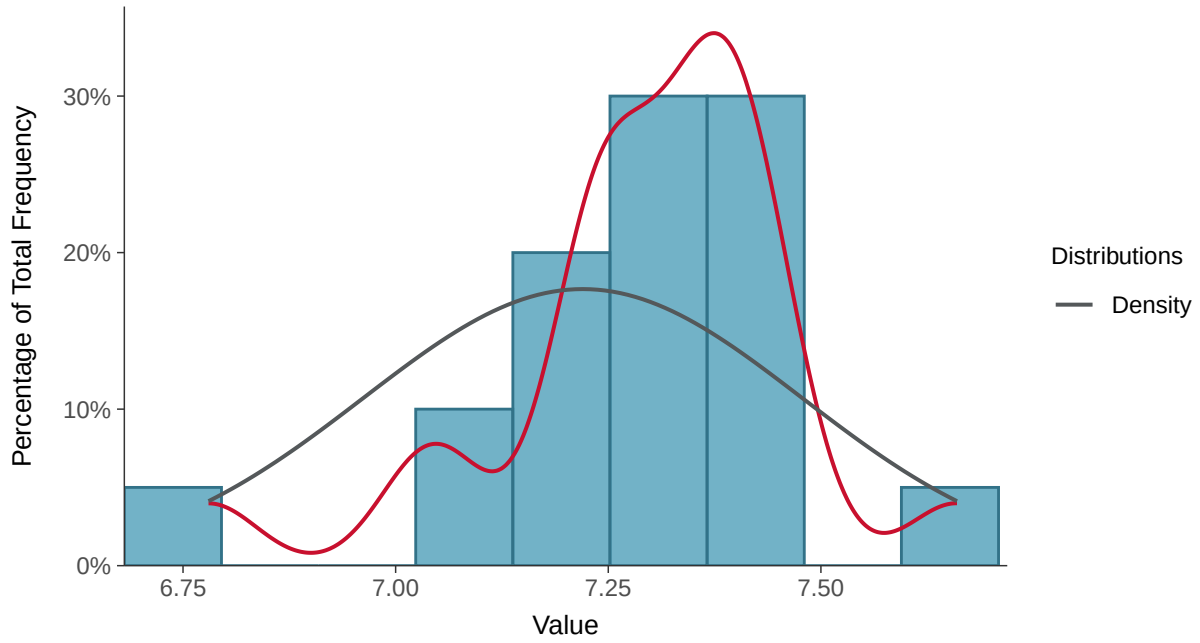
Scatter Plot

pH (field), MW-04 (su)



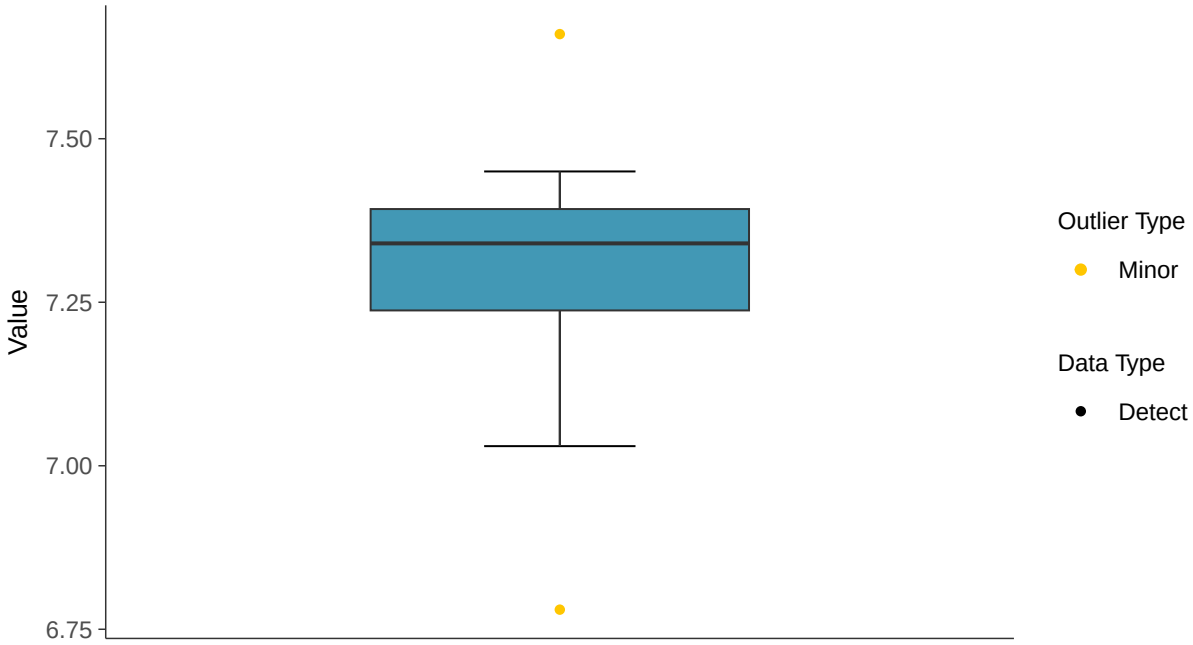
Histogram

pH (field), MW-04 (su)



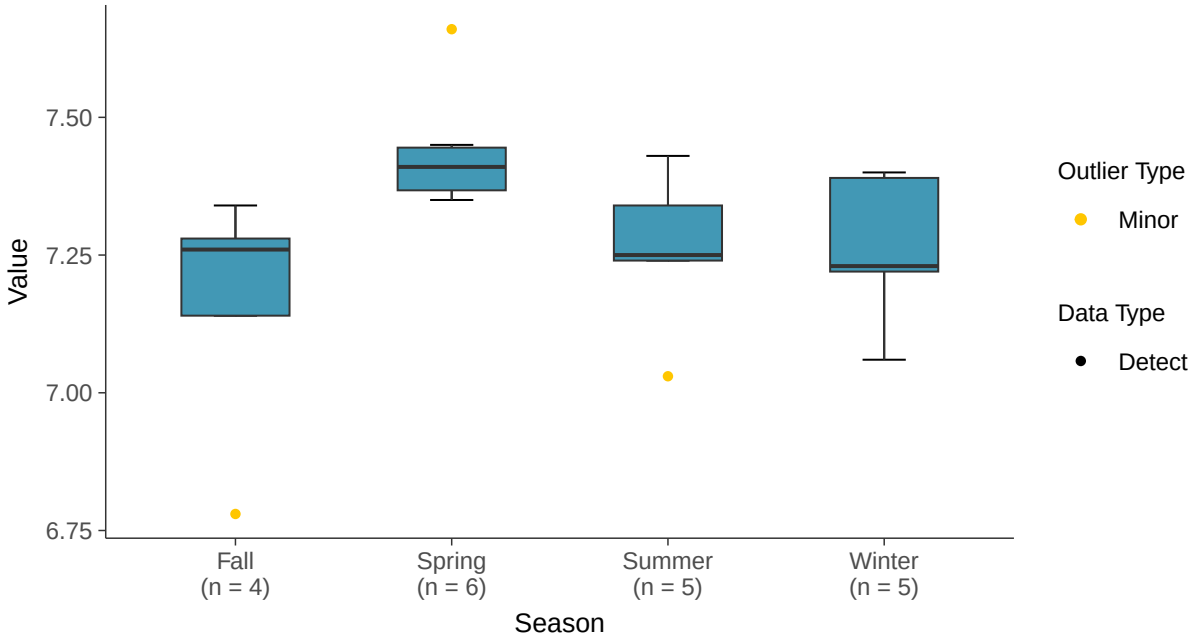
Boxplot

pH (field), MW-04 (su)



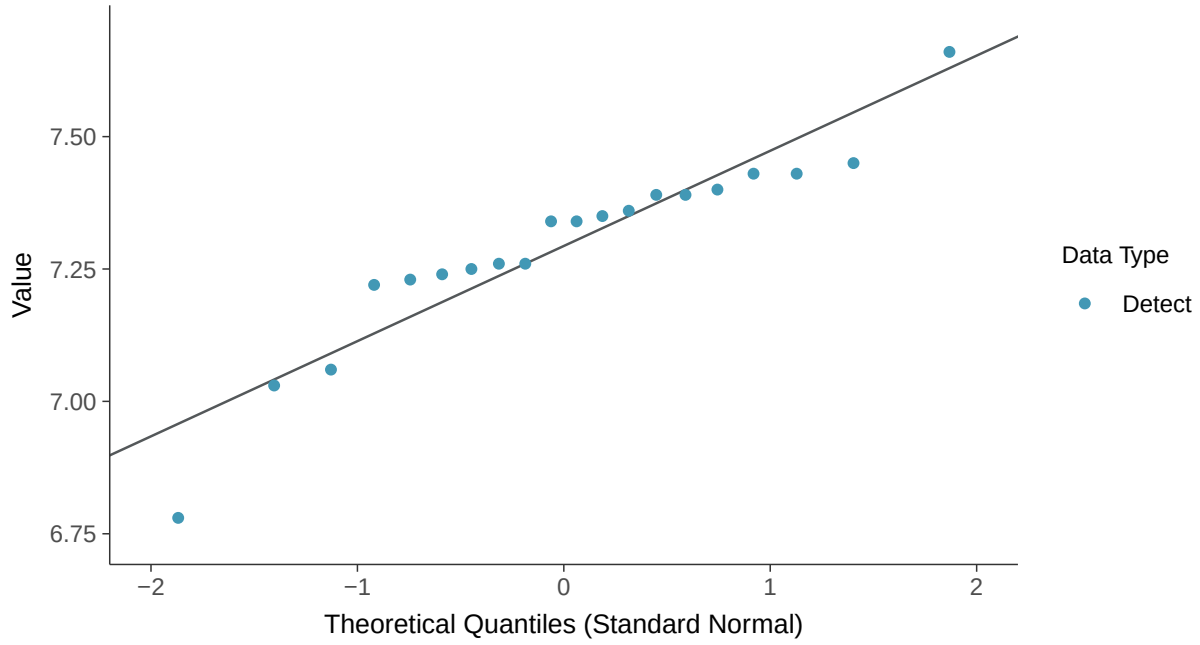
Boxplot by Season

pH (field), MW-04 (su)



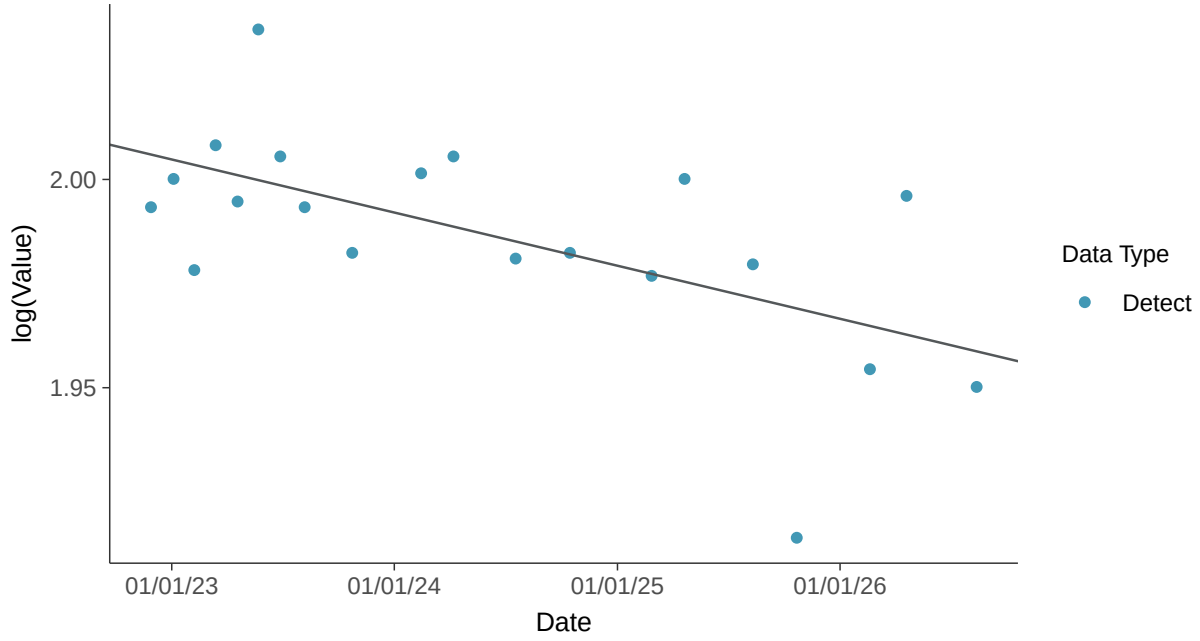
Normal Q-Q plot

pH (field), MW-04 (su)



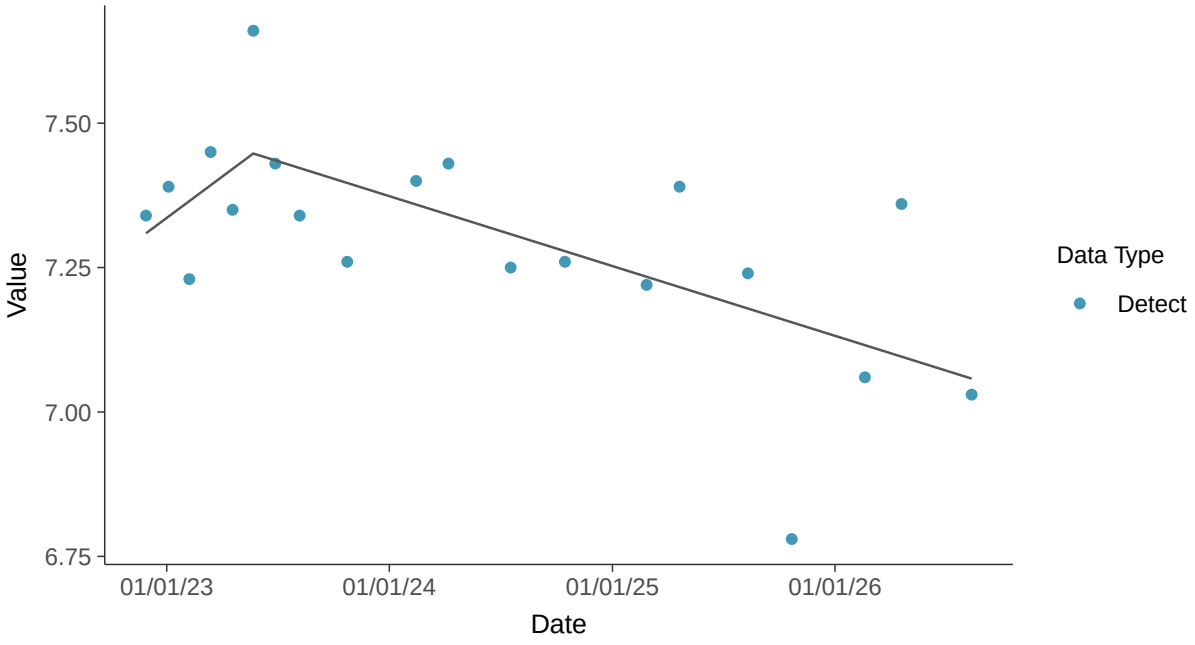
Trend Regression: Lognormal MLE

pH (field), MW-04 (su)



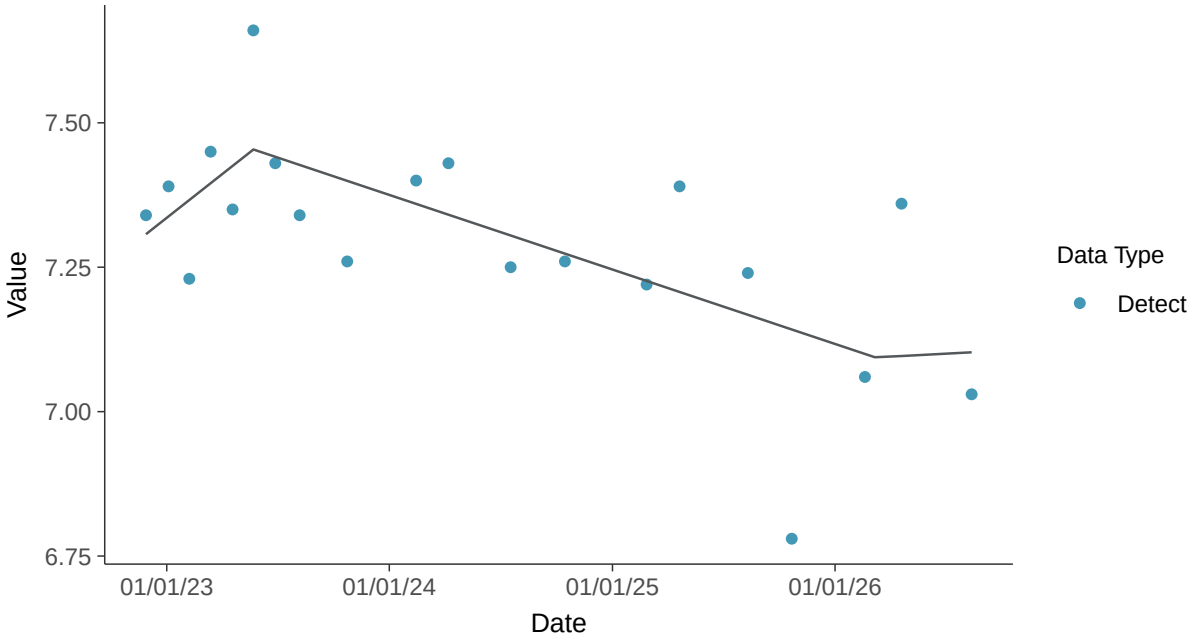
Trend Regression: Piecewise Linear-Linear

pH (field), MW-04 (su)



Trend Regression: Piecewise Linear-Linear-Linear

pH (field), MW-04 (su)

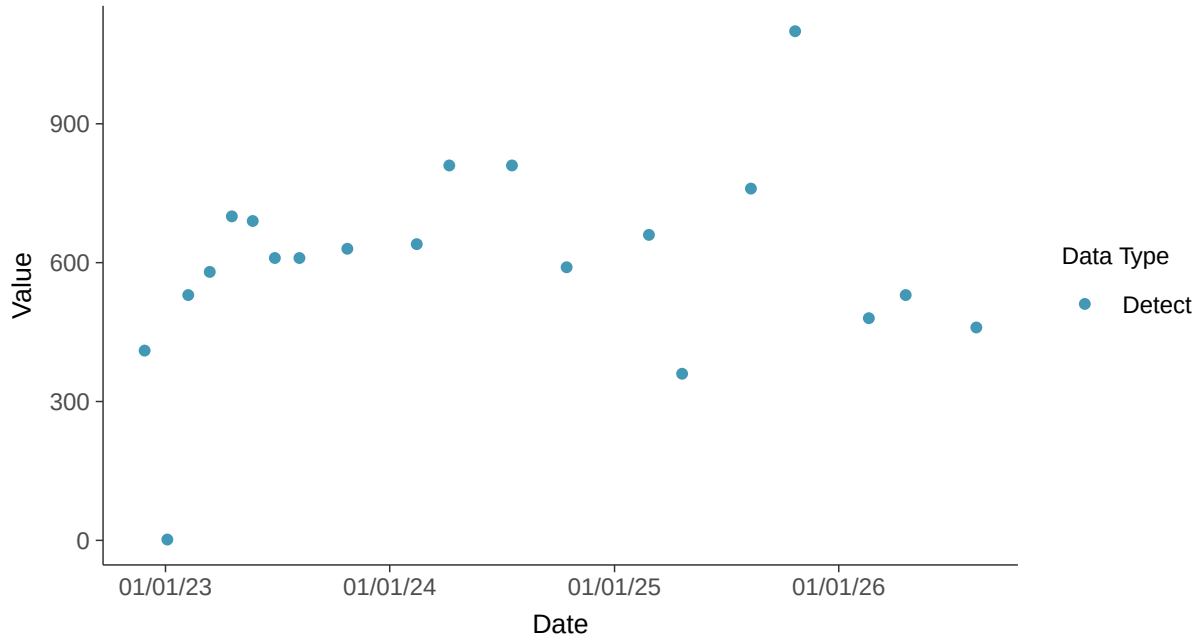


Appendix III: Sulfate (as SO4), MW-04

ID: 14_2_3_124

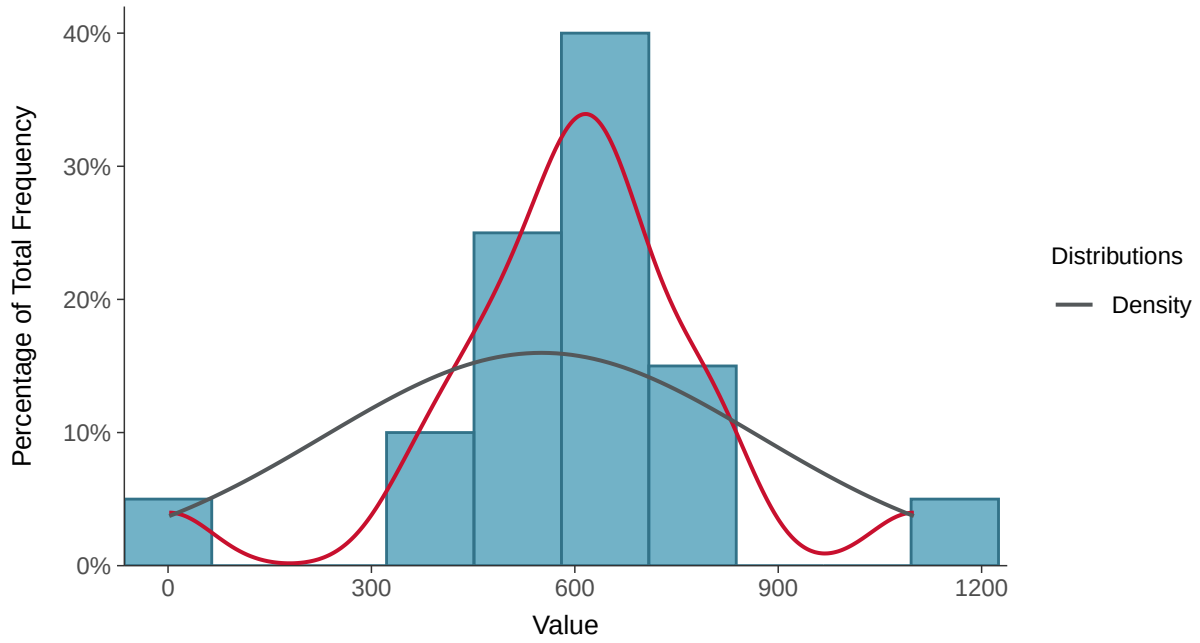
Scatter Plot

Sulfate (as SO4), MW-04 (mg/L)



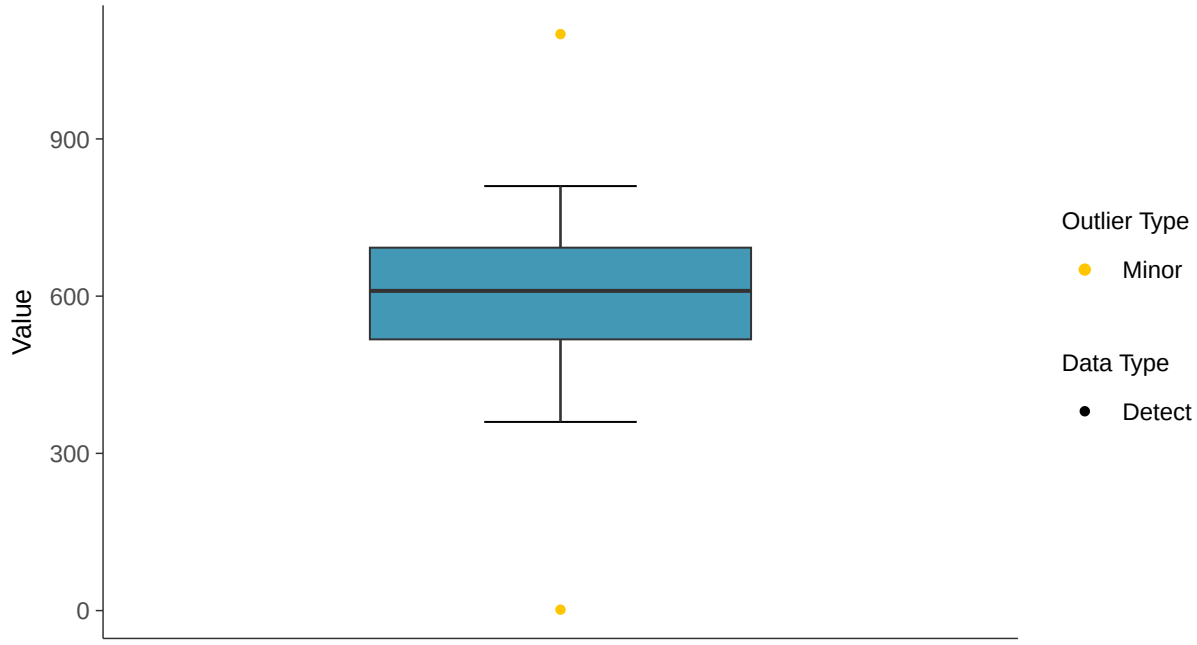
Histogram

Sulfate (as SO4), MW-04 (mg/L)



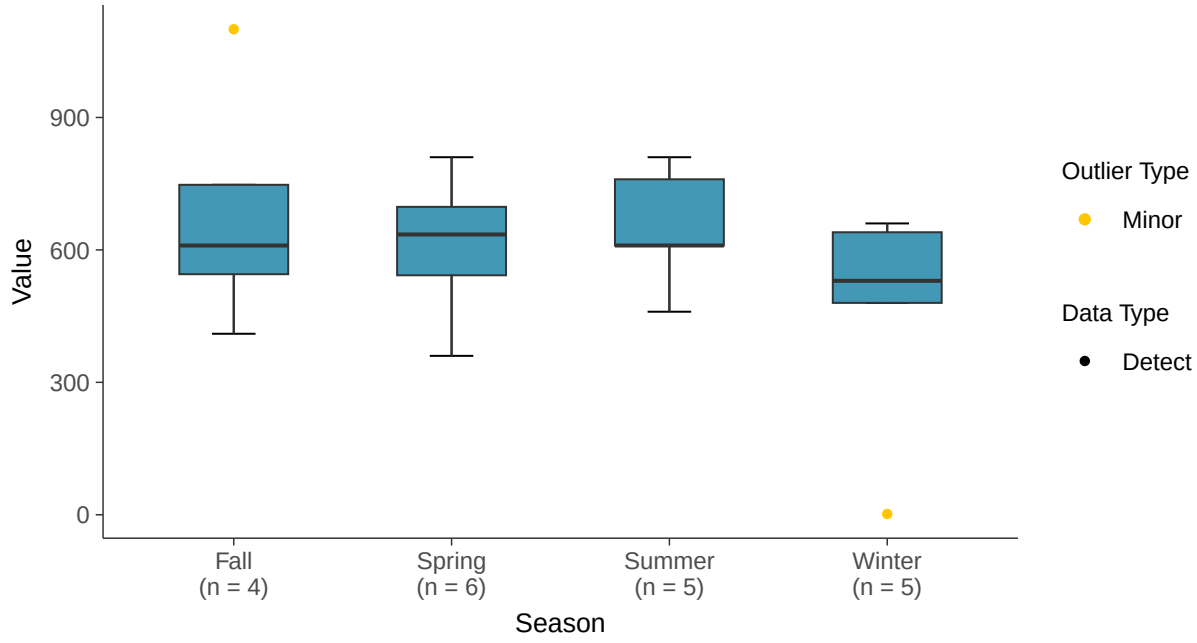
Boxplot

Sulfate (as SO4), MW-04 (mg/L)



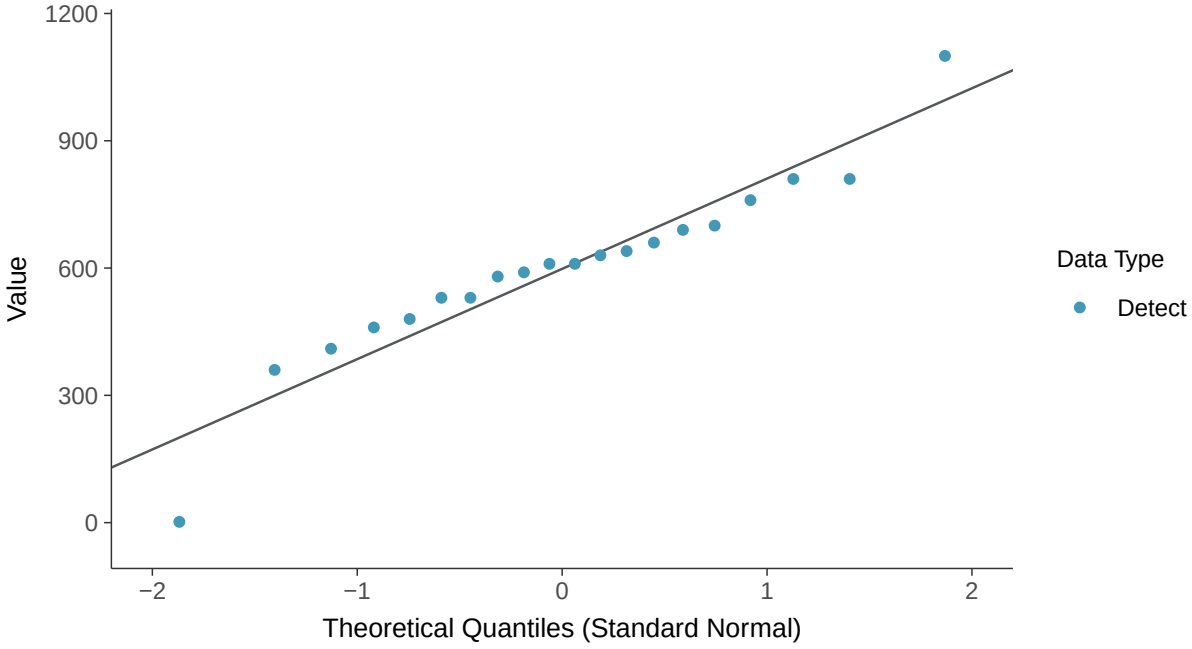
Boxplot by Season

Sulfate (as SO4), MW-04 (mg/L)



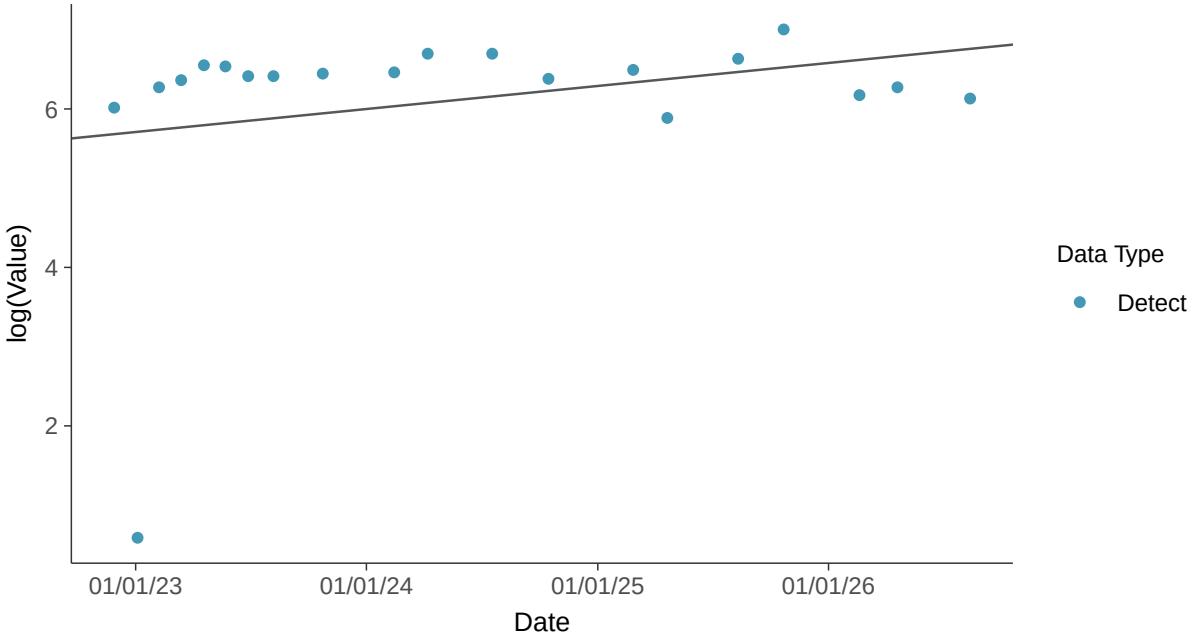
Normal Q-Q plot

Sulfate (as SO4), MW-04 (mg/L)



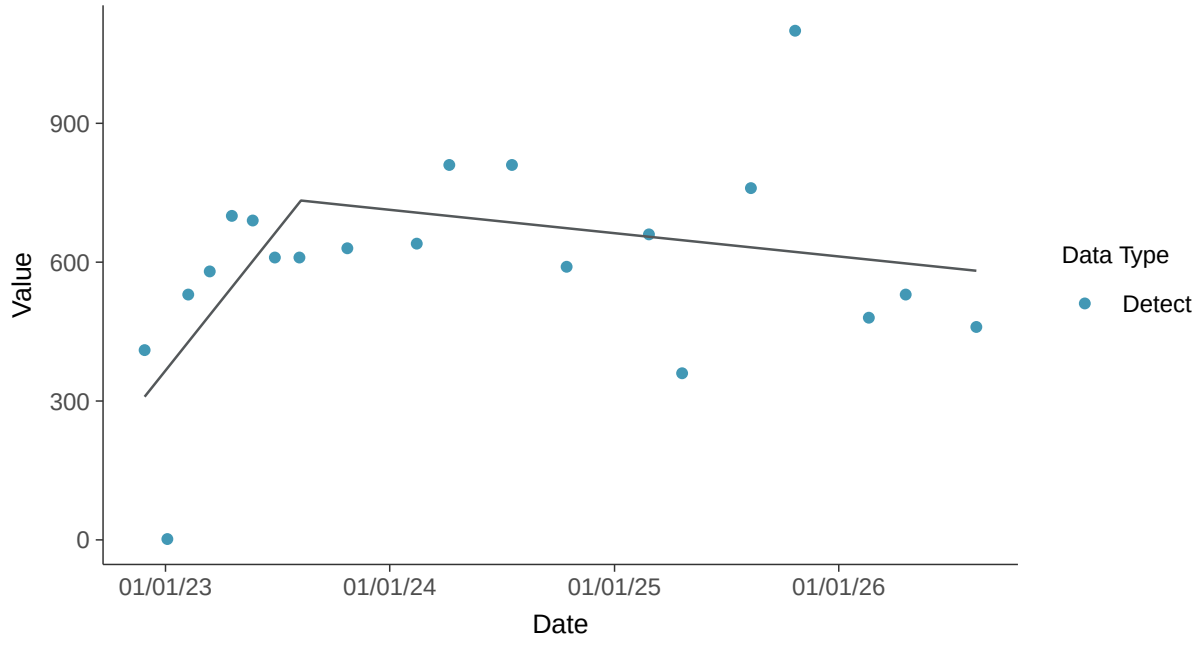
Trend Regression: Lognormal MLE

Sulfate (as SO4), MW-04 (mg/L)



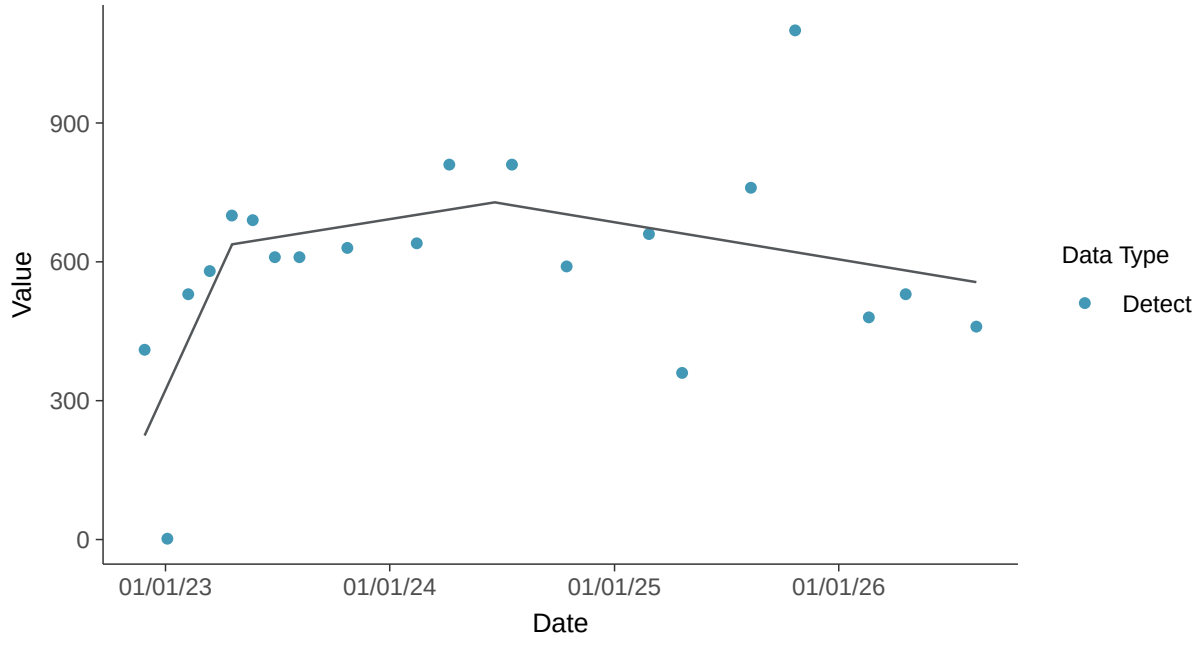
Trend Regression: Piecewise Linear-Linear

Sulfate (as SO4), MW-04 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Sulfate (as SO4), MW-04 (mg/L)

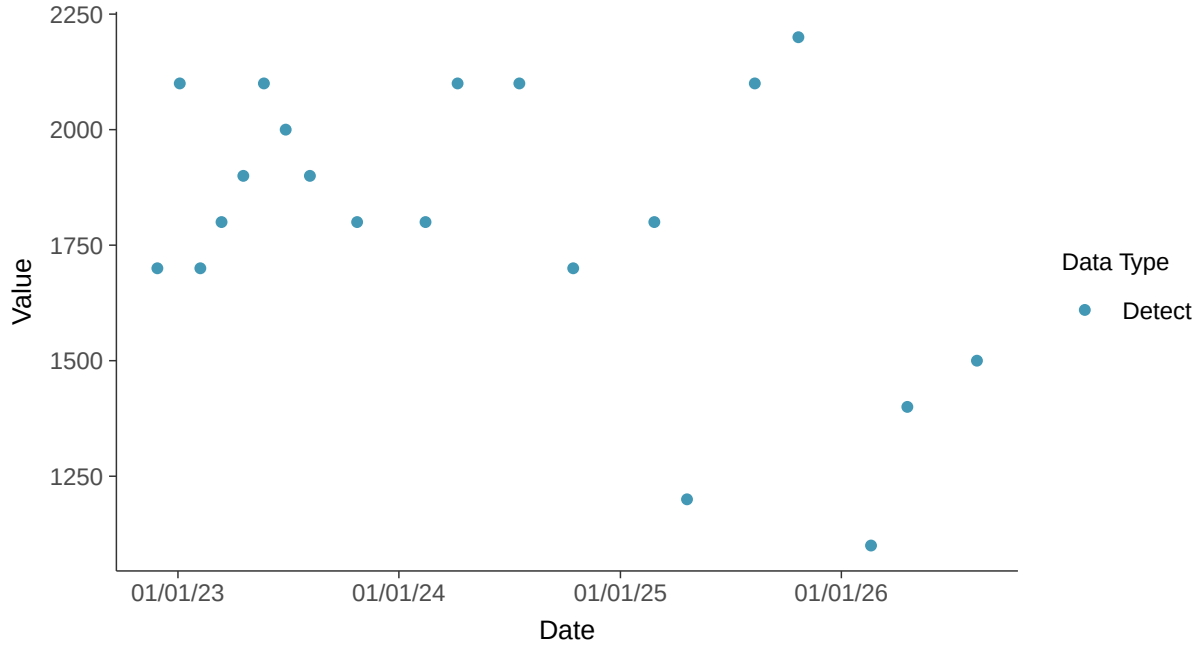


Appendix III: Total Dissolved Solids, MW-04

ID: 14_2_3_126

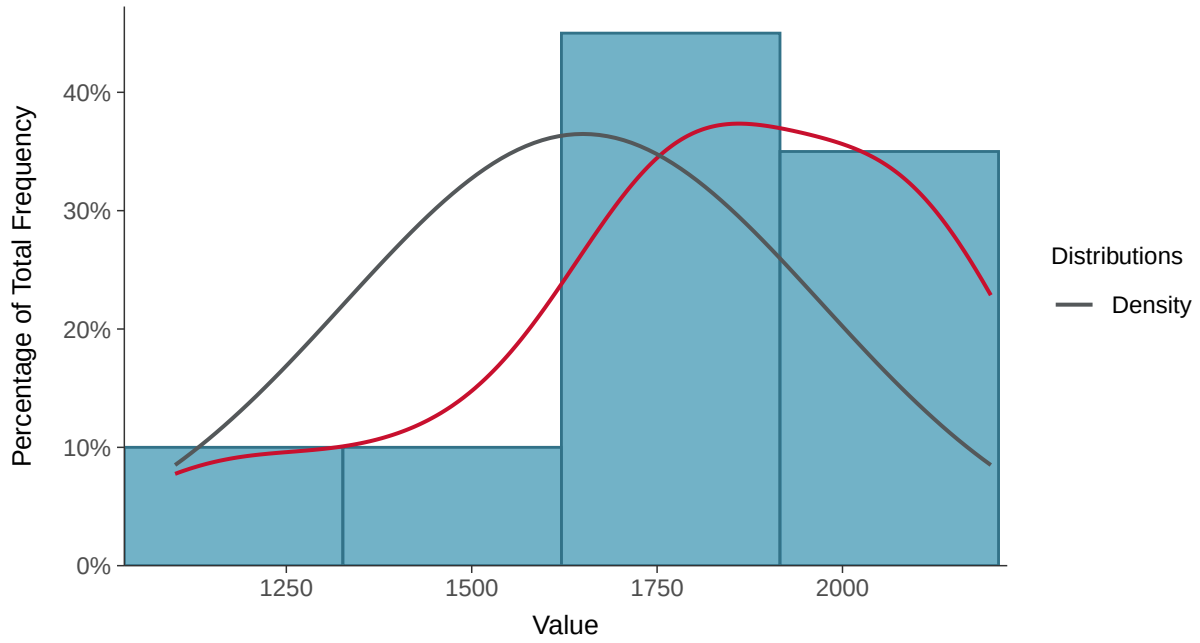
Scatter Plot

Total Dissolved Solids, MW-04 (mg/L)



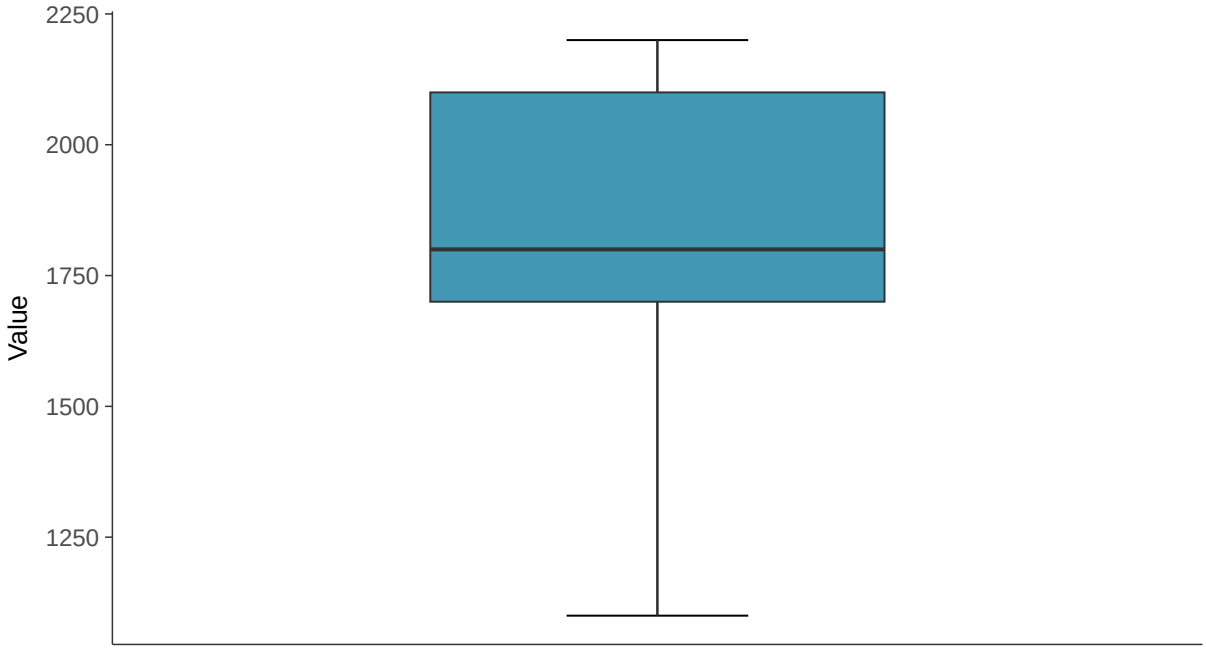
Histogram

Total Dissolved Solids, MW-04 (mg/L)



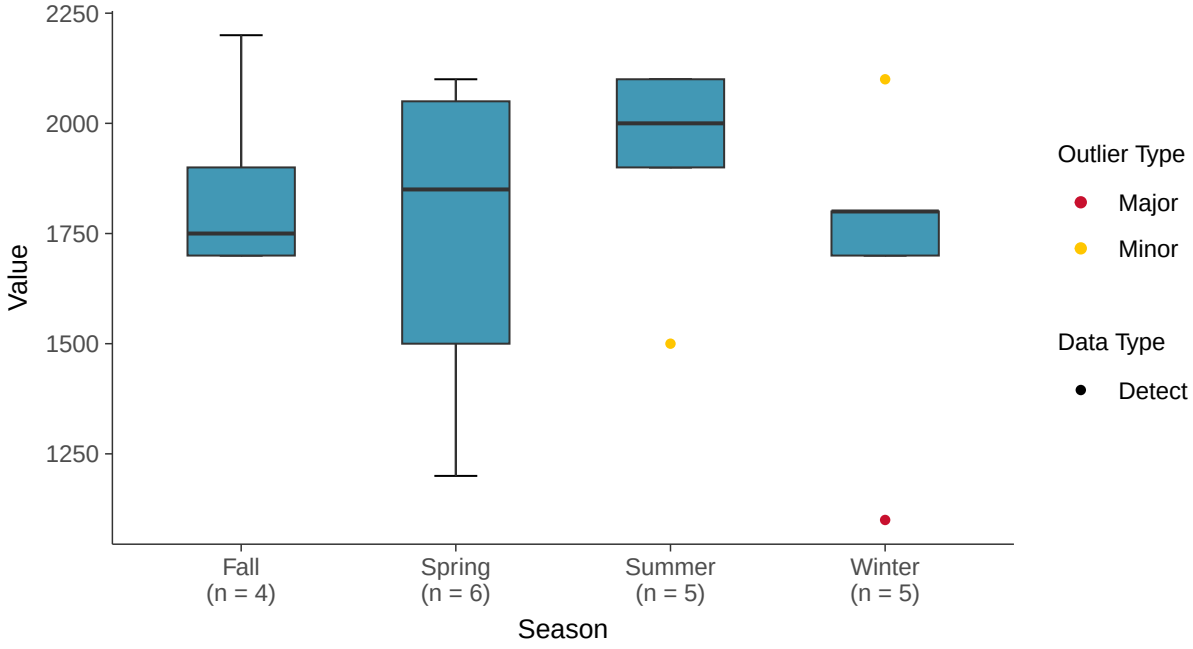
Boxplot

Total Dissolved Solids, MW-04 (mg/L)



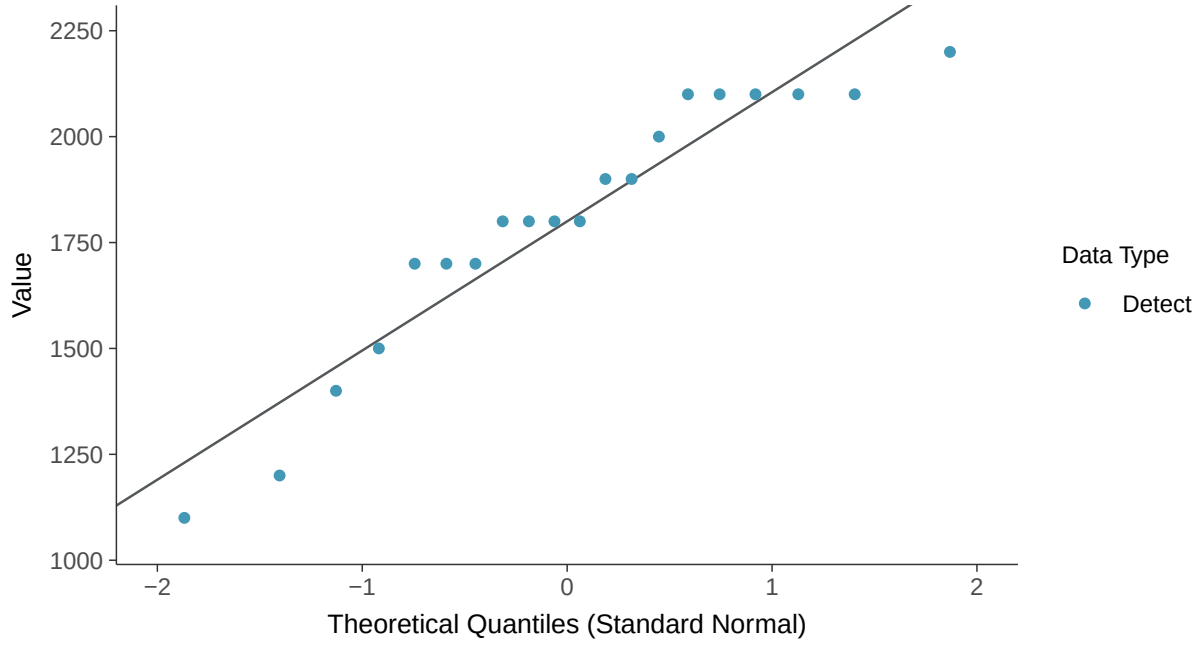
Boxplot by Season

Total Dissolved Solids, MW-04 (mg/L)



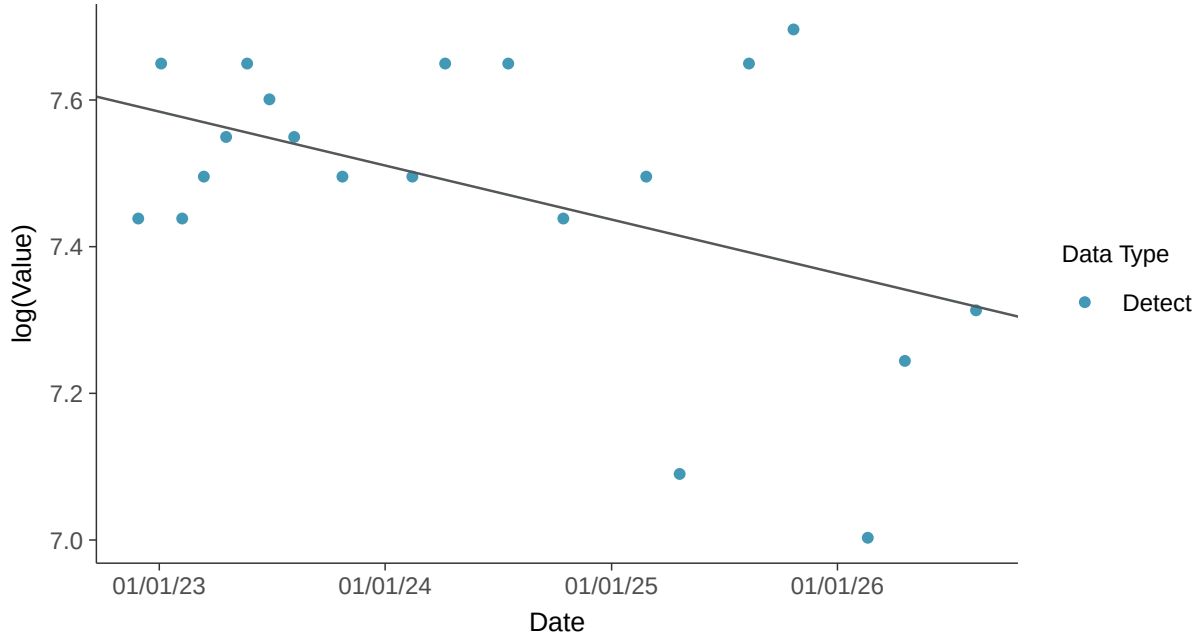
Normal Q-Q plot

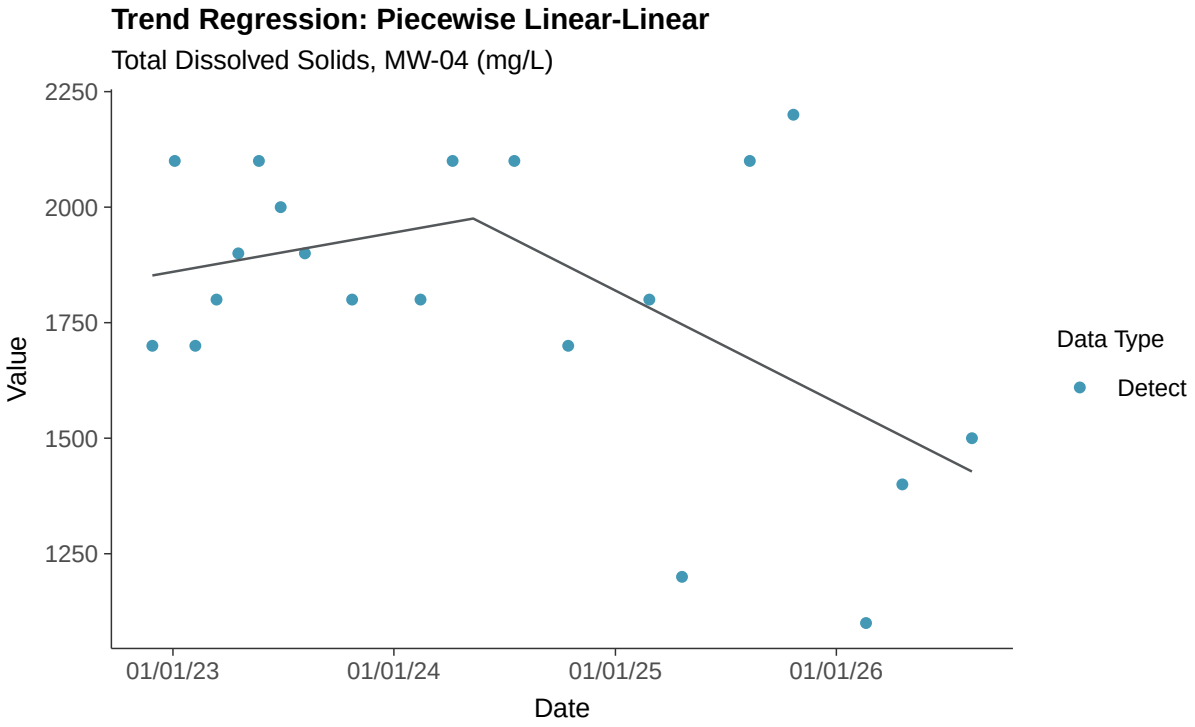
Total Dissolved Solids, MW-04 (mg/L)



Trend Regression: Lognormal MLE

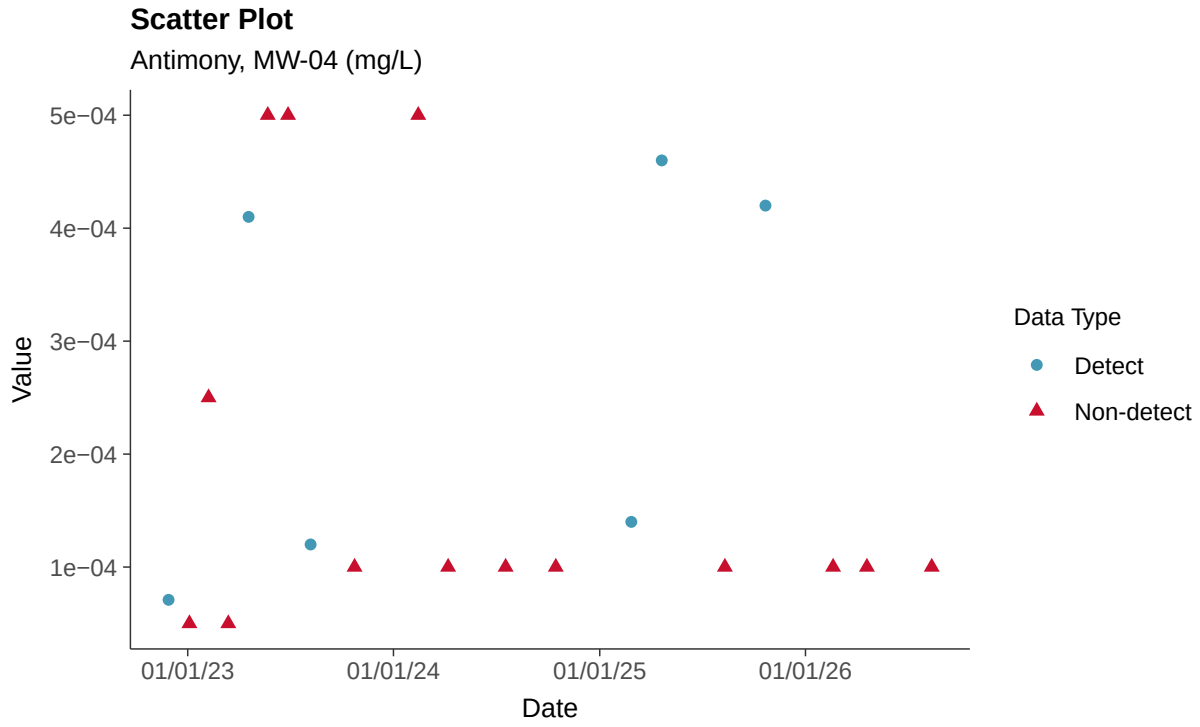
Total Dissolved Solids, MW-04 (mg/L)

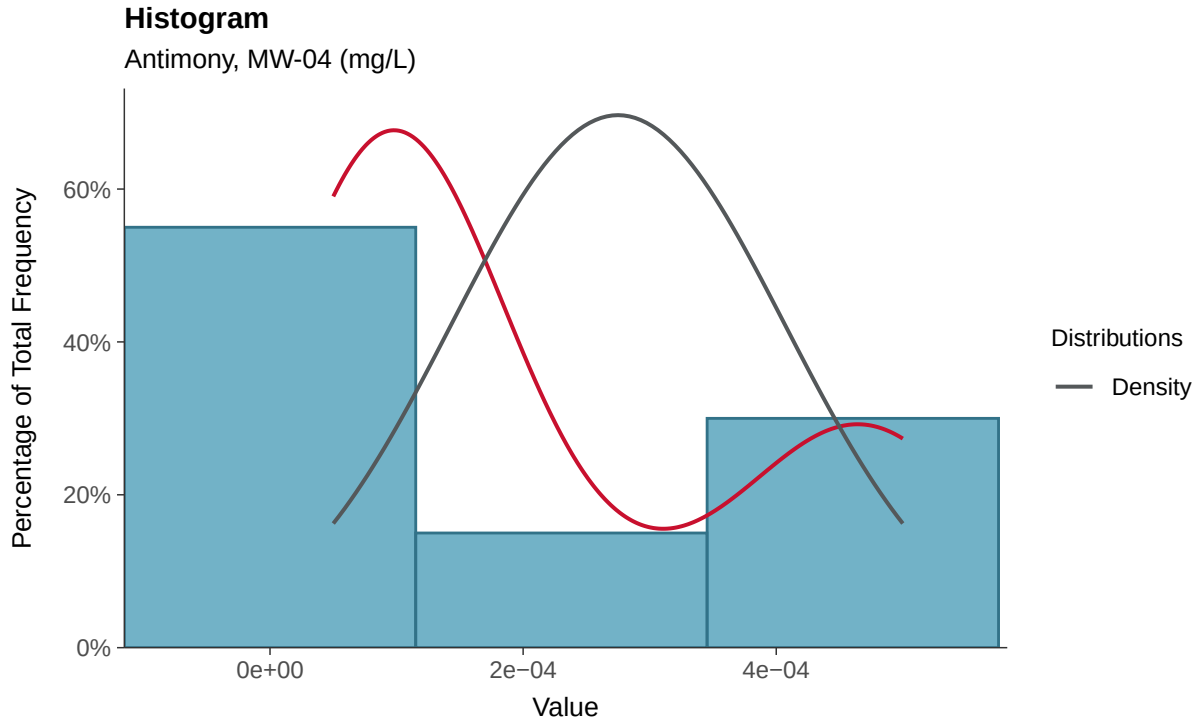



Trend Regression: Piecewise Linear-Linear
Total Dissolved Solids, MW-04 (mg/L)
Value
2250
2000
1750
1500
1250
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect

Appendix IV: Antimony, MW-04

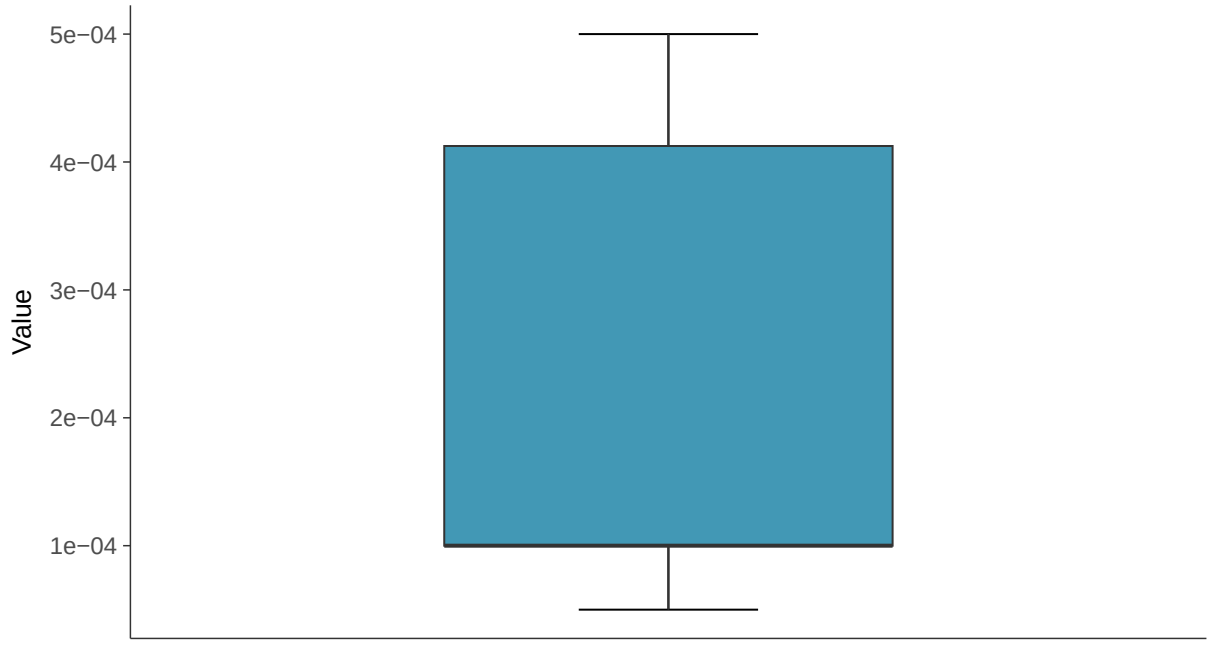
ID: 14_2_4_101





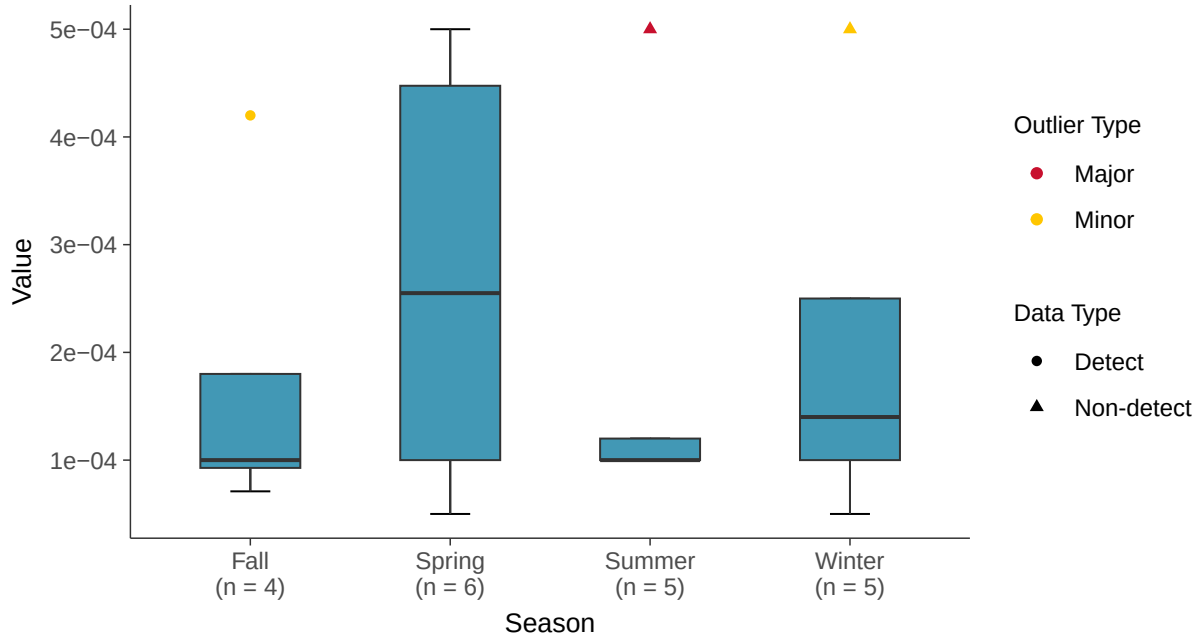
Boxplot

Antimony, MW-04 (mg/L)



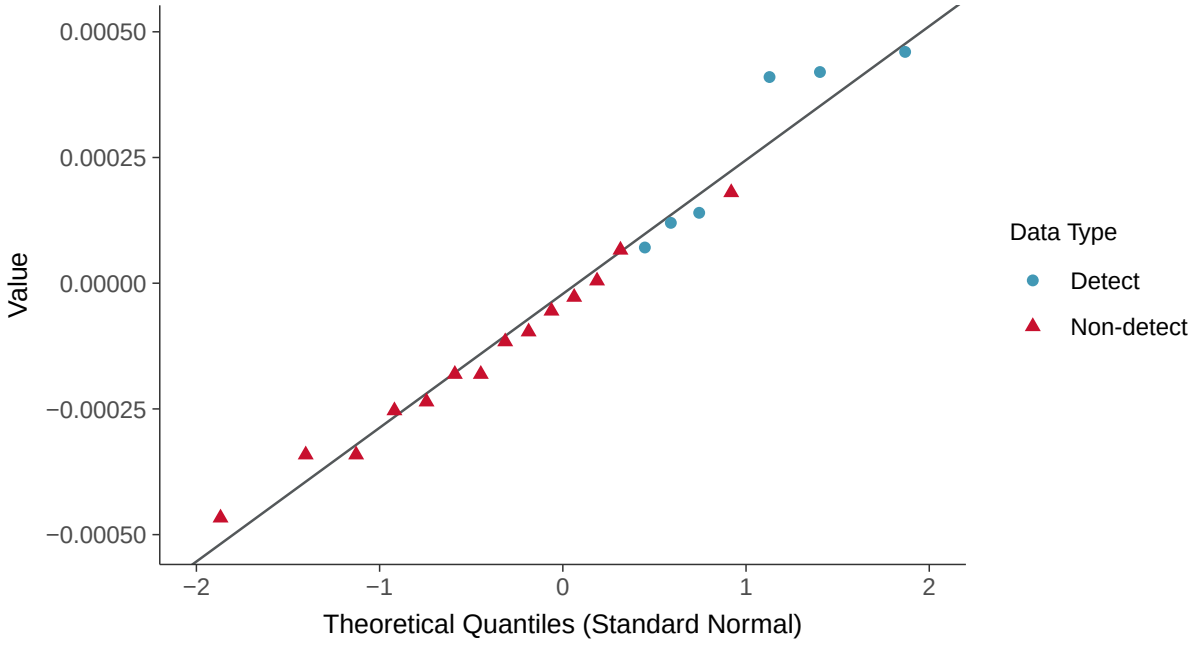
Boxplot by Season

Antimony, MW-04 (mg/L)



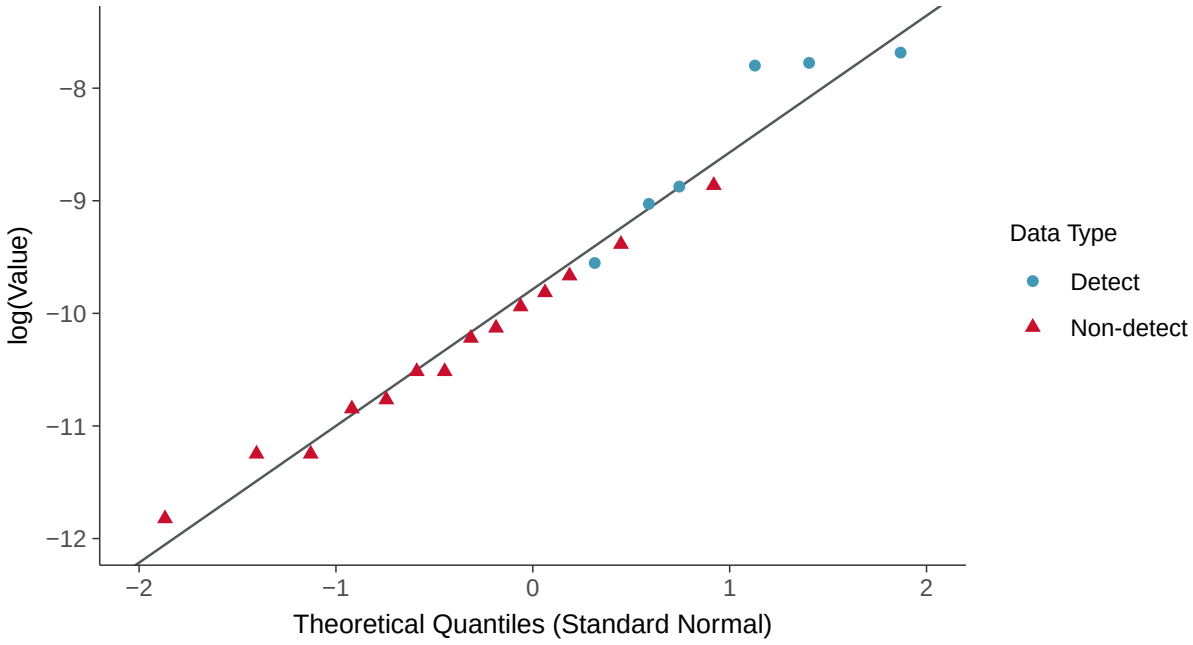
Normal Q-Q plot using ROS Imputed Estimates

Antimony, MW-04 (mg/L)



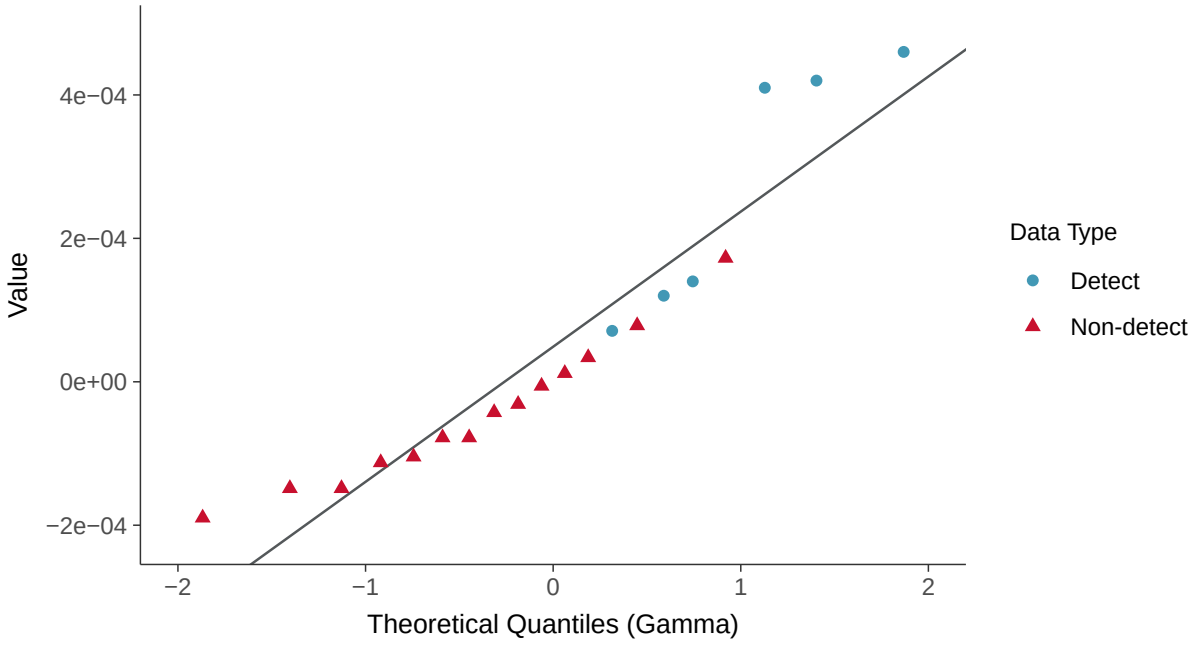
Lognormal Q-Q plot using ROS Imputed Estimates

Antimony, MW-04 (mg/L)



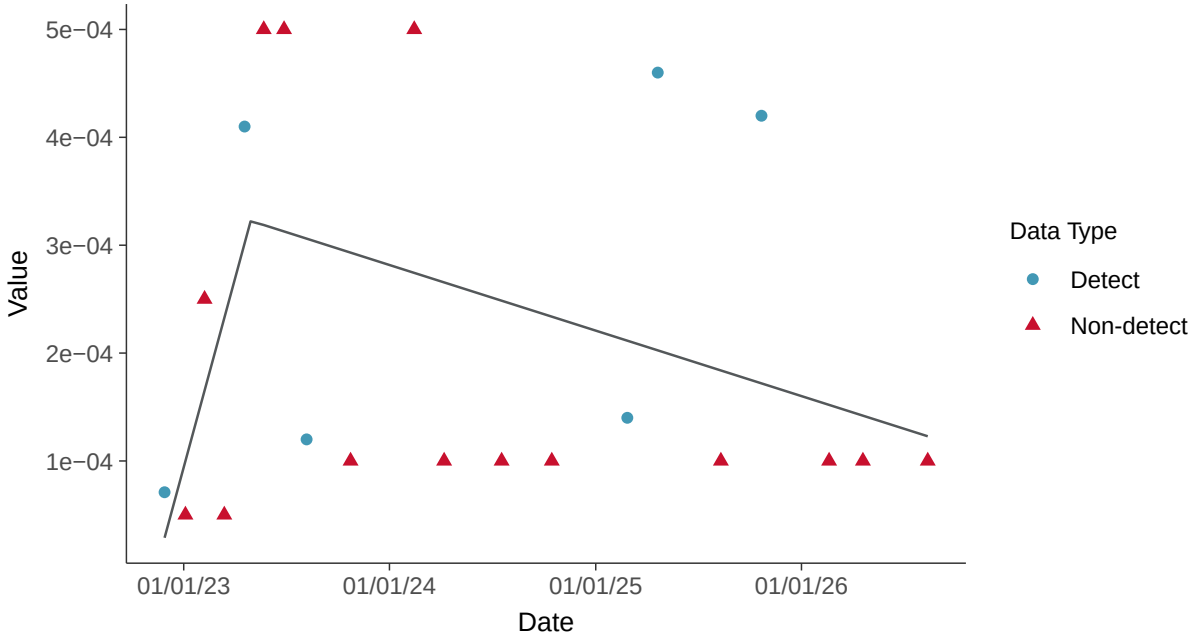
Gamma Q-Q plot using ROS Imputed Estimates

Antimony, MW-04 (mg/L)



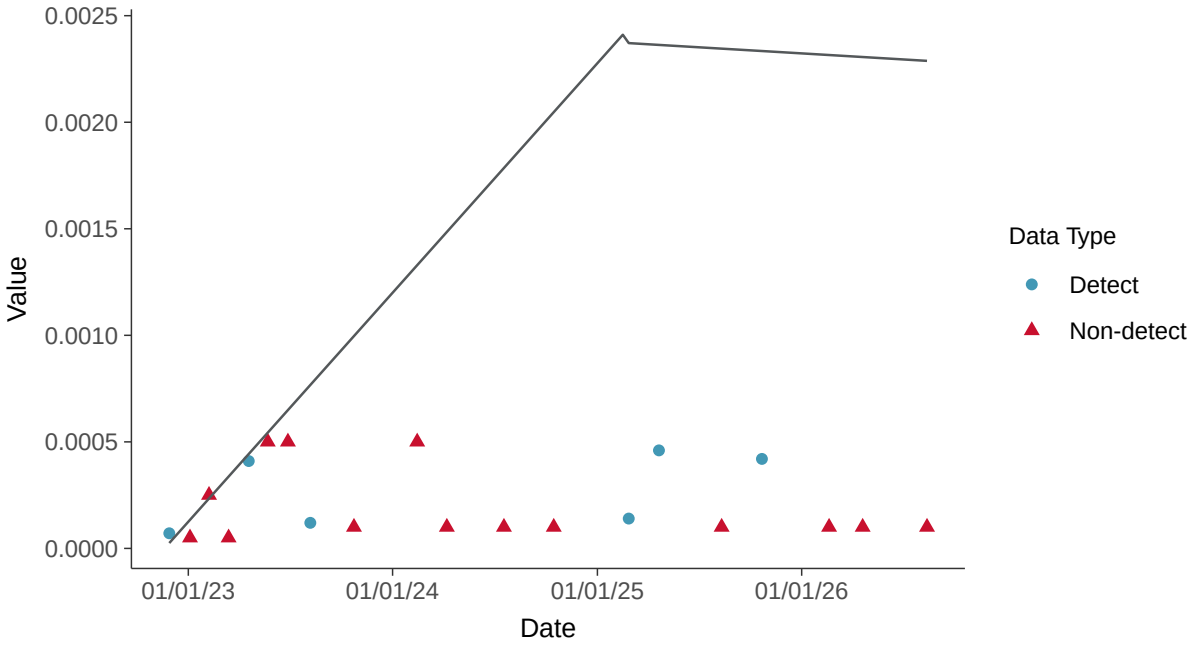
Trend Regression: Piecewise Linear-Linear

Antimony, MW-04 (mg/L)



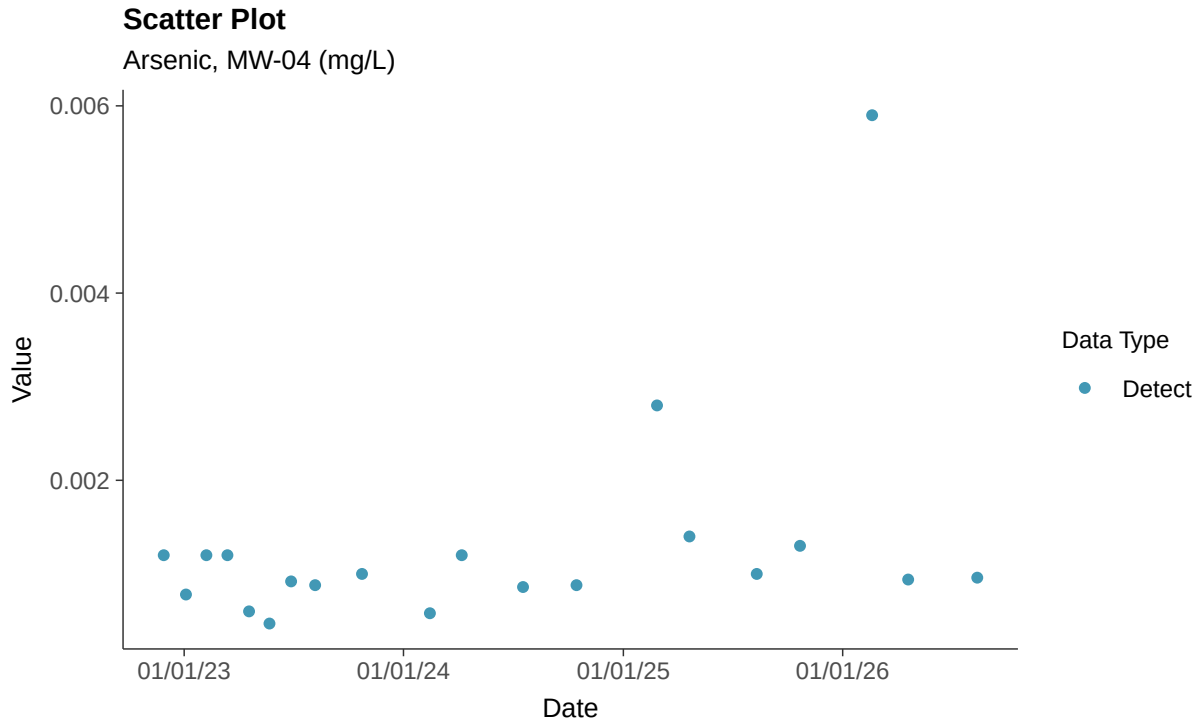
Trend Regression: Piecewise Linear-Linear-Linear

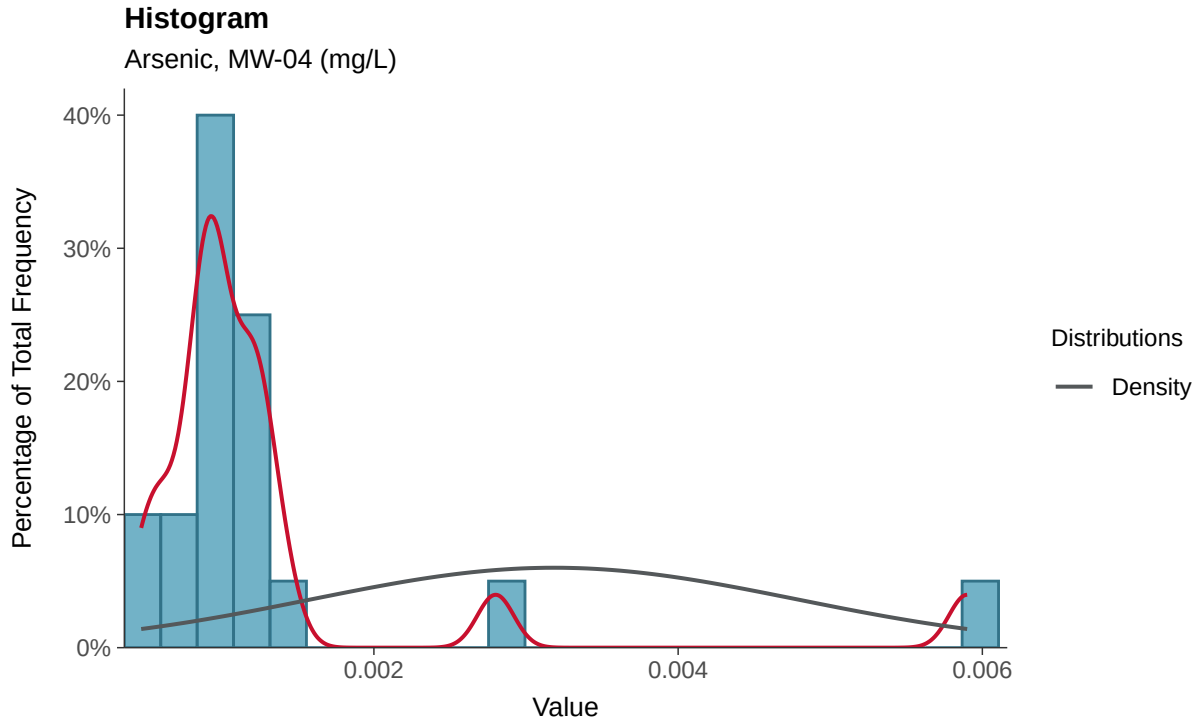
Antimony, MW-04 (mg/L)



Appendix IV: Arsenic, MW-04

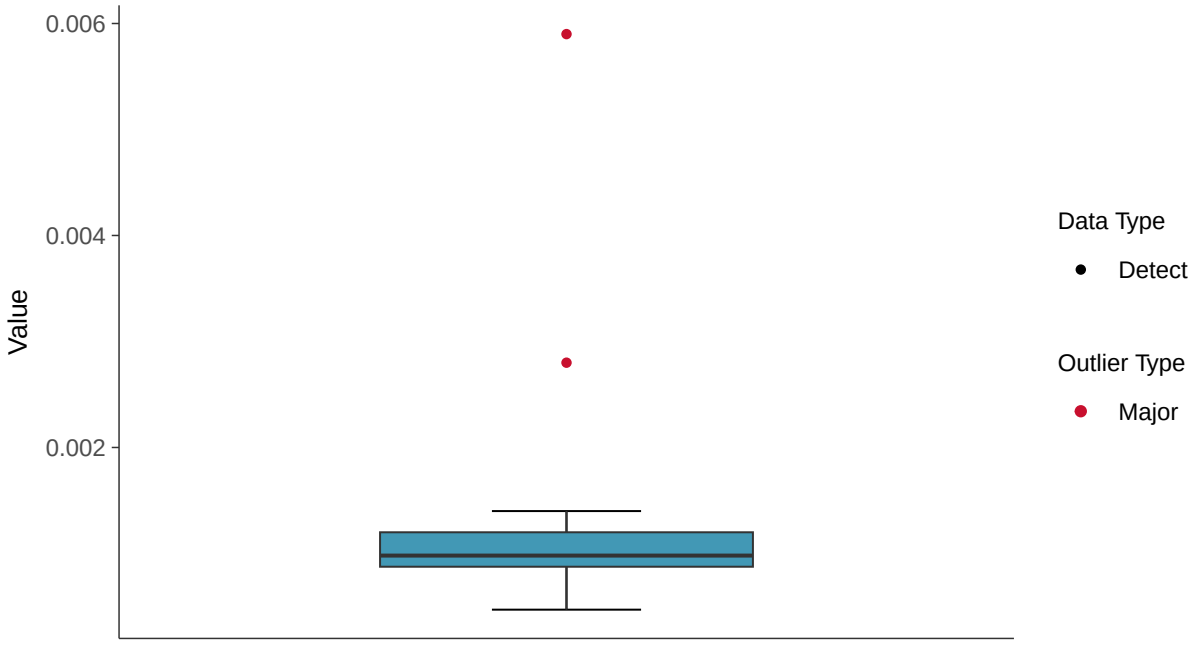
ID: 14_2_4_102





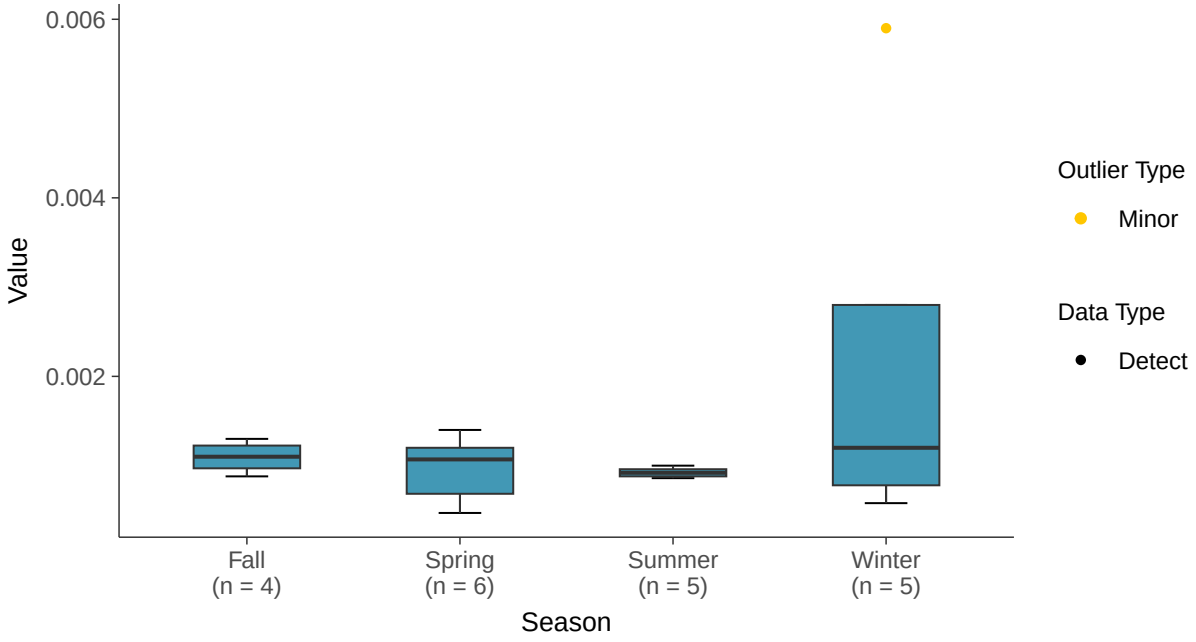
Boxplot

Arsenic, MW-04 (mg/L)



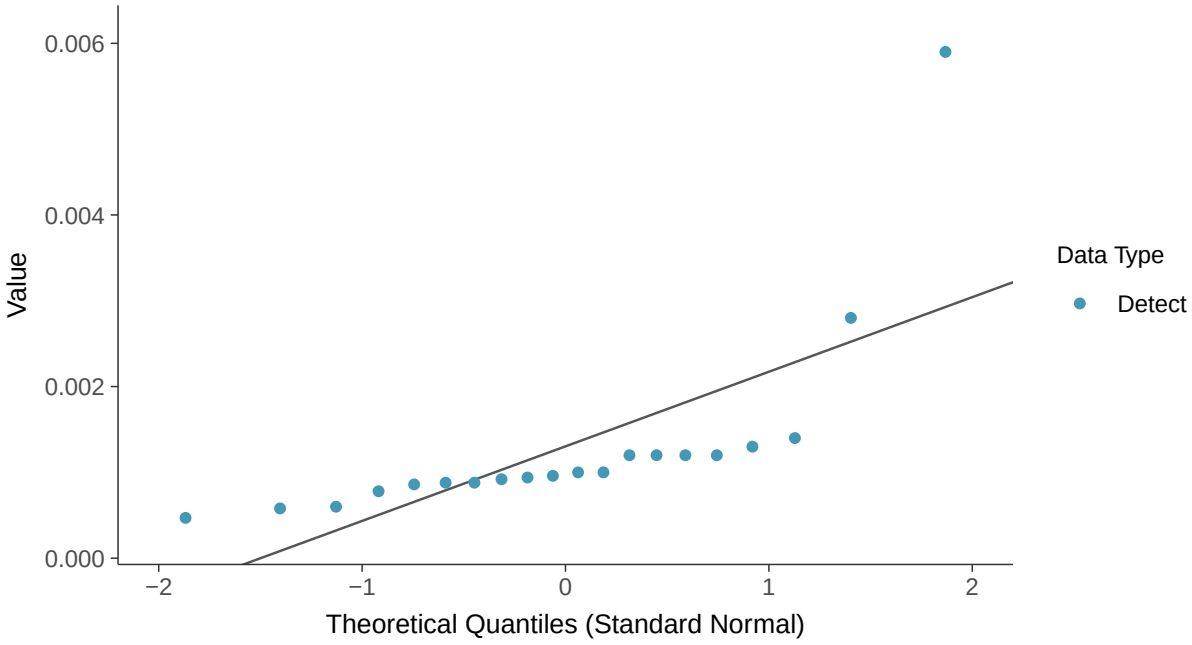
Boxplot by Season

Arsenic, MW-04 (mg/L)



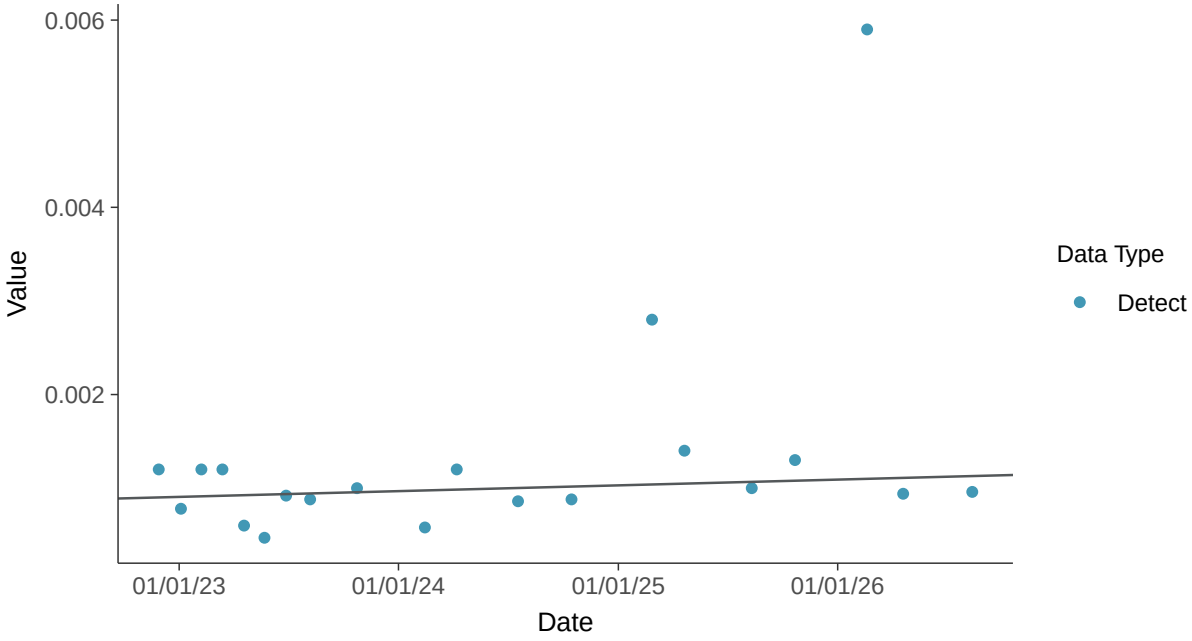
Normal Q-Q plot

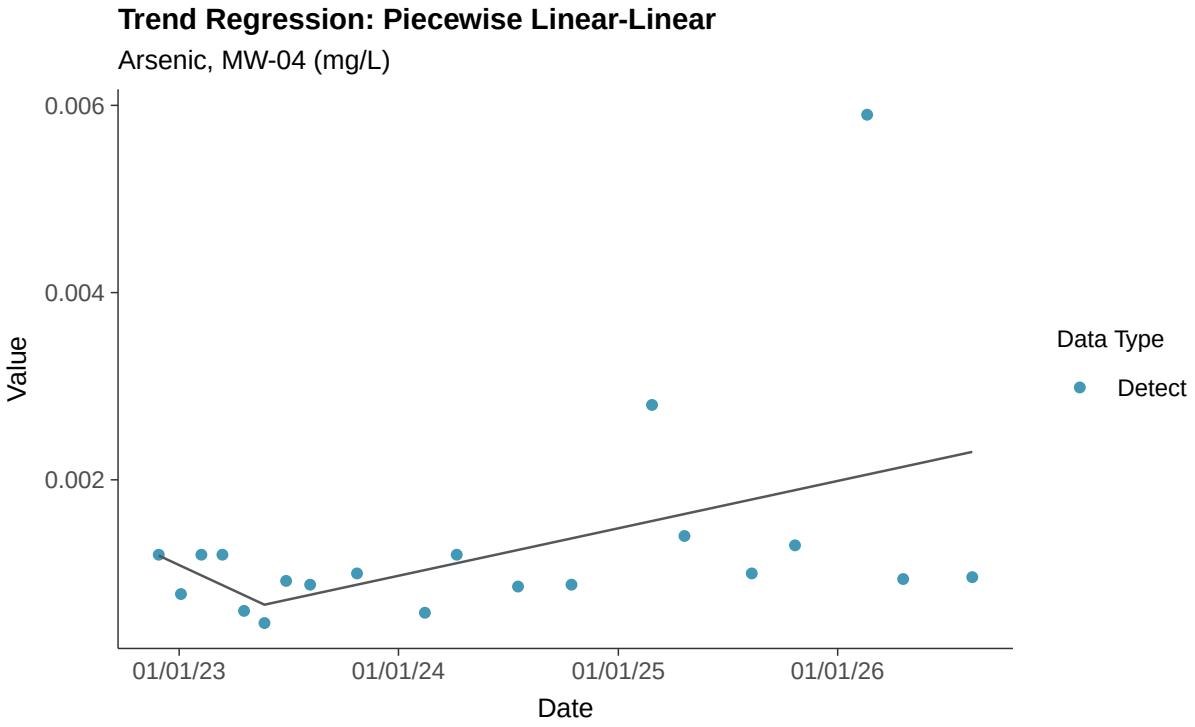
Arsenic, MW-04 (mg/L)



Trend Regression: Mann-Kendall/Theil-Sen Estimate

Arsenic, MW-04 (mg/L)



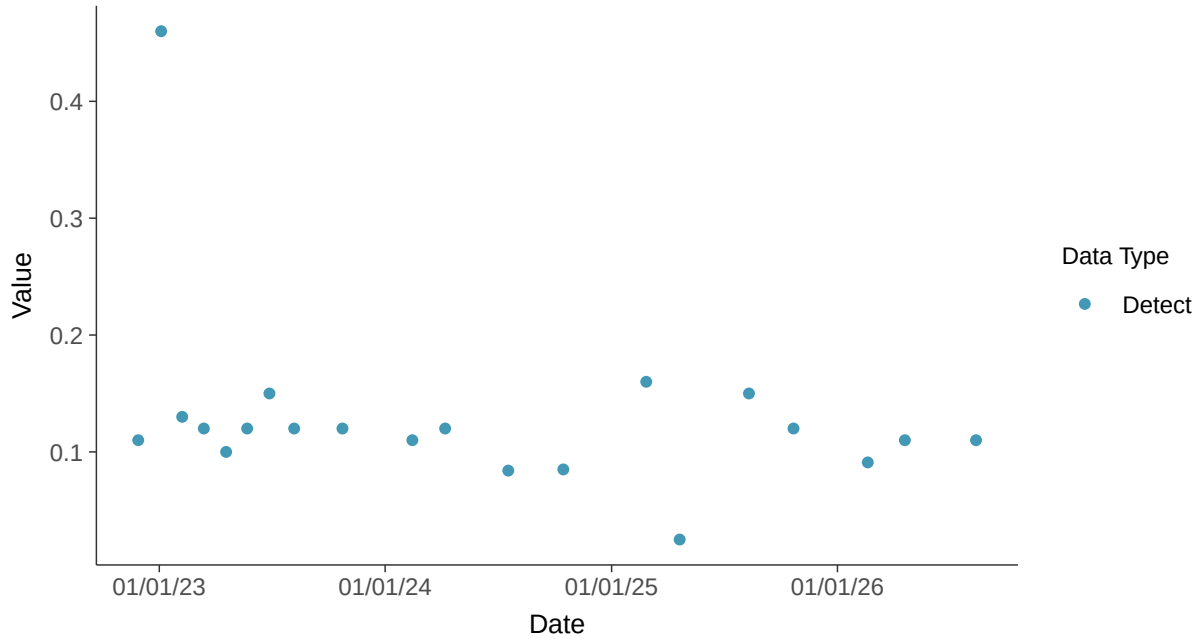

Trend Regression: Piecewise Linear-Linear
Arsenic, MW-04 (mg/L)
0.006
0.004
0.002
Value
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect

Appendix IV: Barium, MW-04

ID: 14_2_4_103

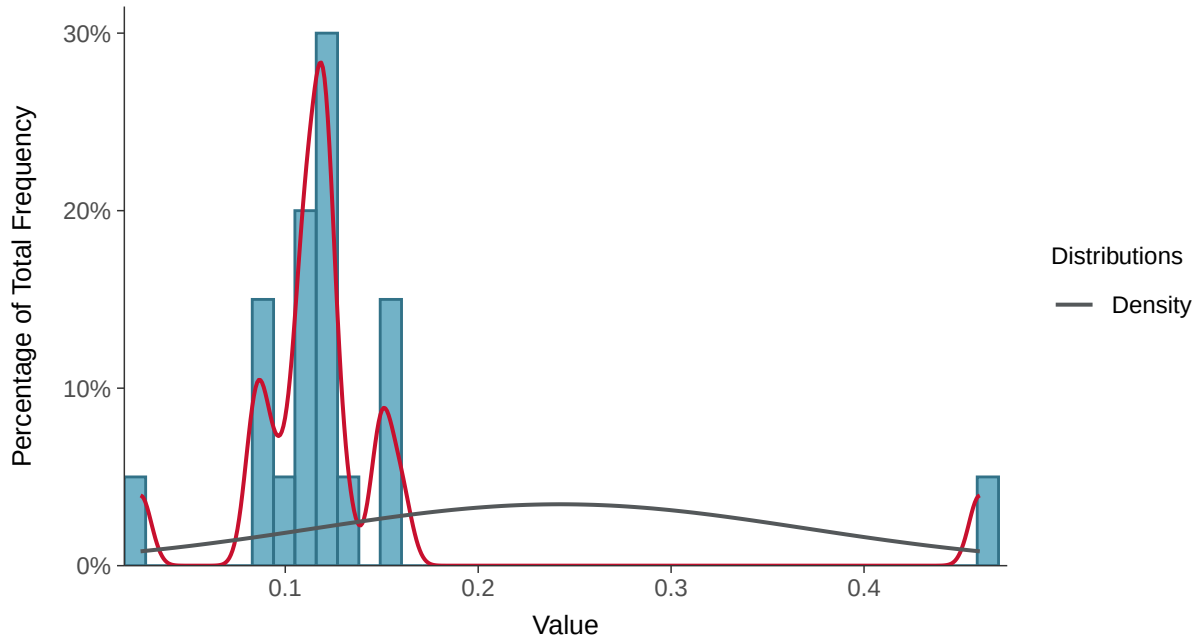
Scatter Plot

Barium, MW-04 (mg/L)



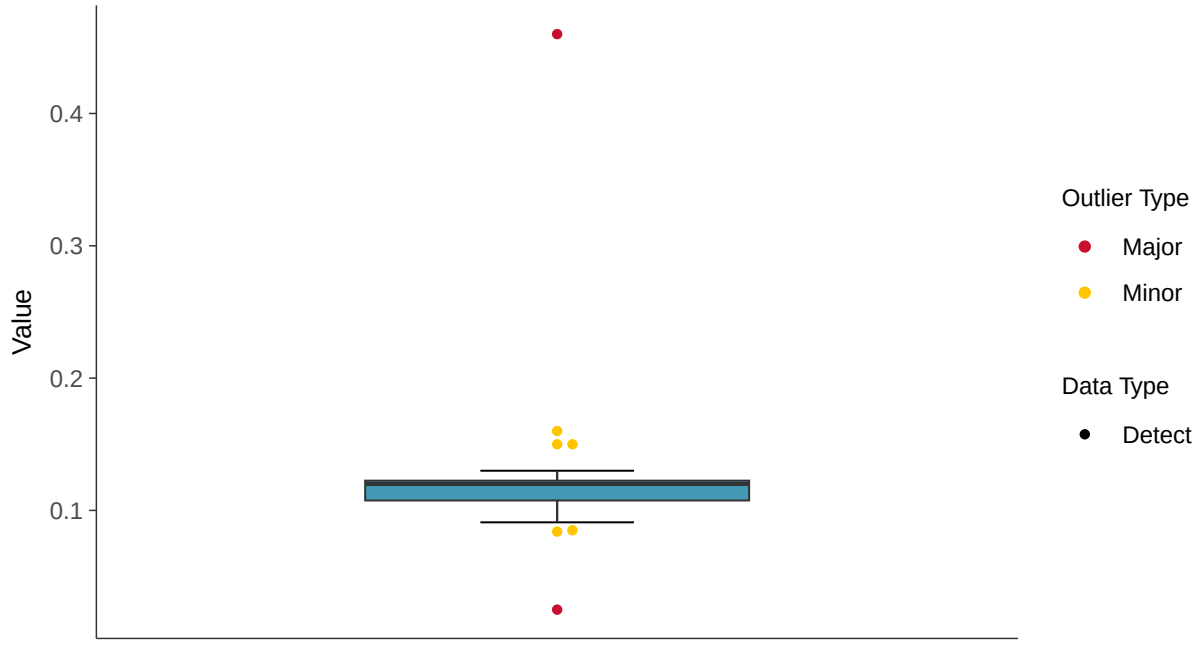
Histogram

Barium, MW-04 (mg/L)



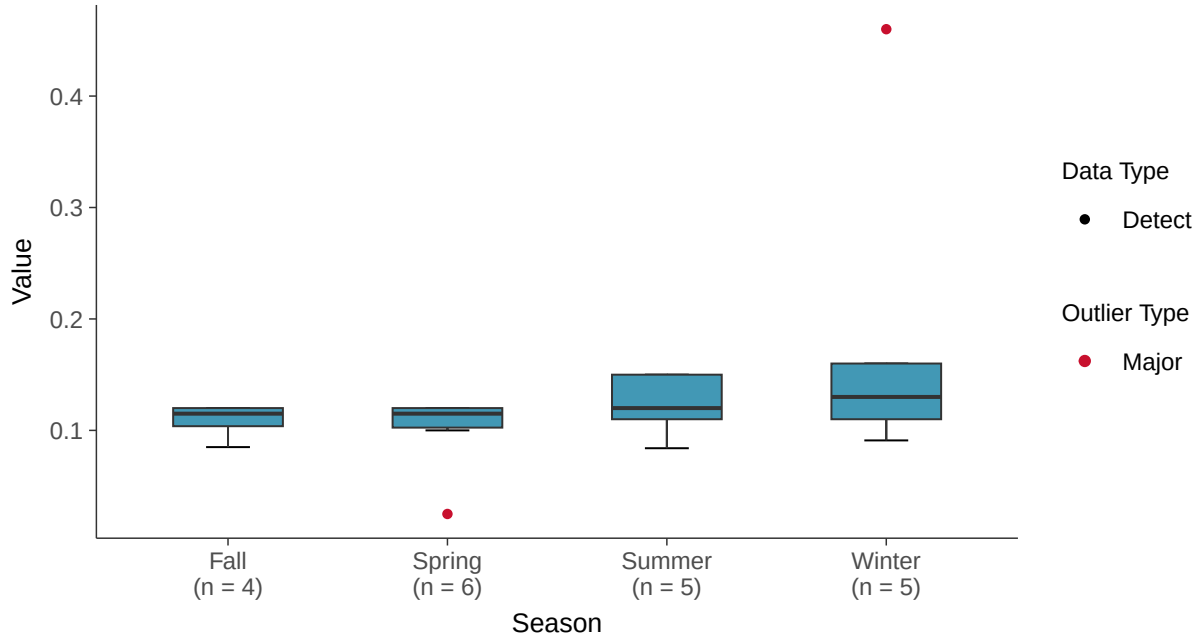
Boxplot

Barium, MW-04 (mg/L)



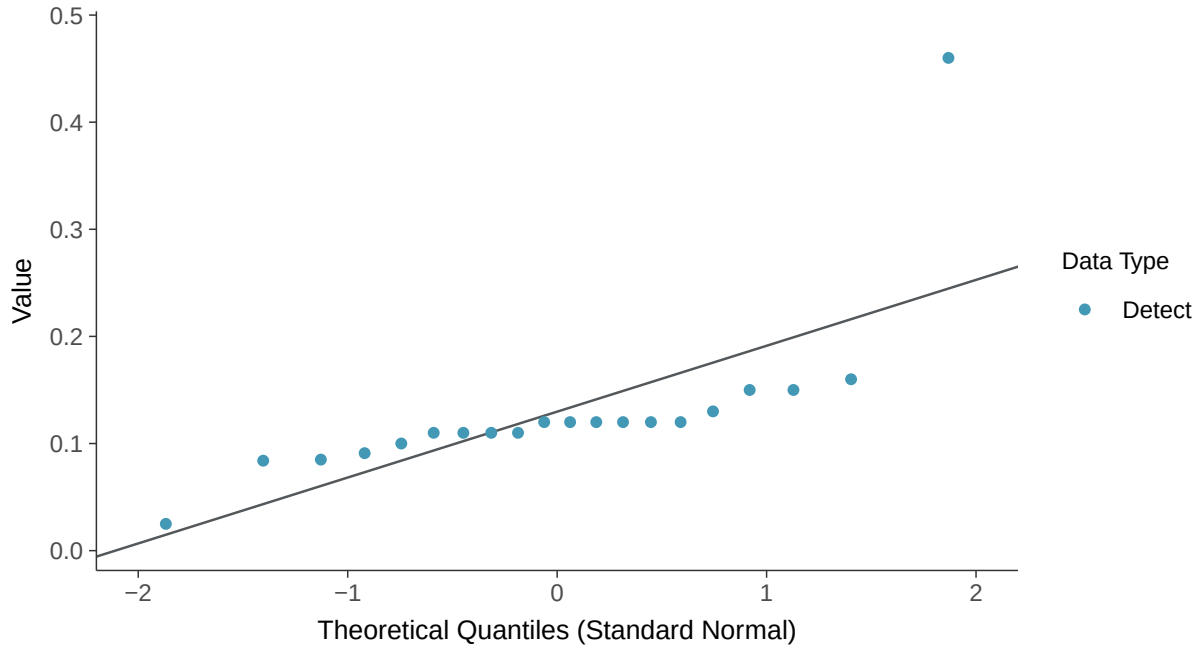
Boxplot by Season

Barium, MW-04 (mg/L)



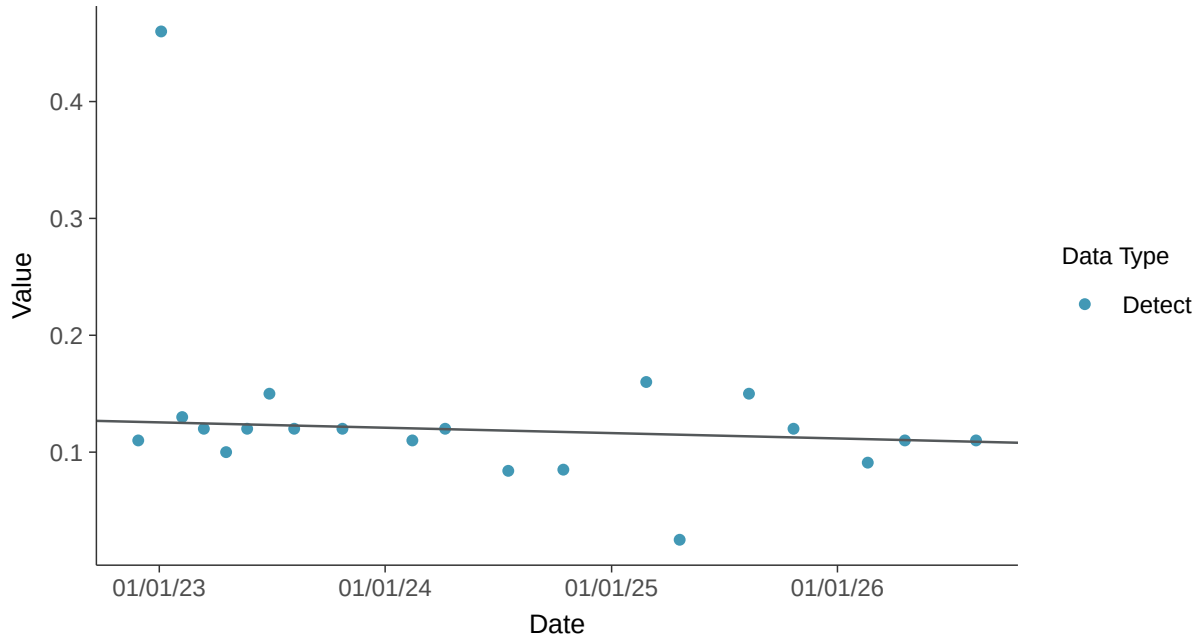
Normal Q-Q plot

Barium, MW-04 (mg/L)



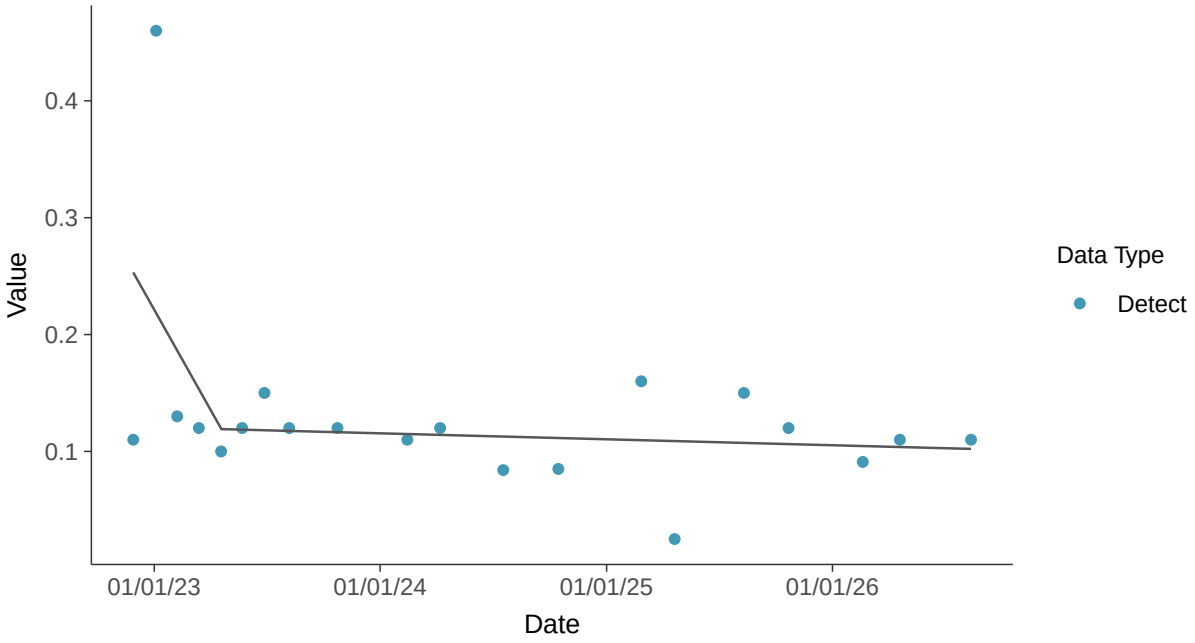
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Barium, MW-04 (mg/L)



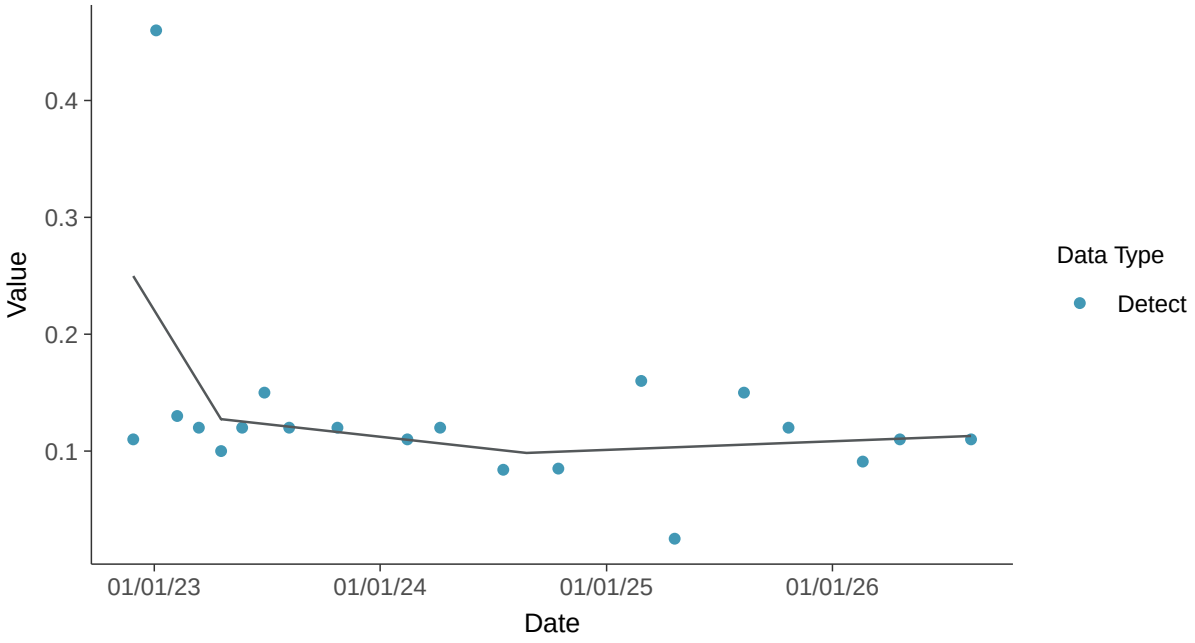
Trend Regression: Piecewise Linear-Linear

Barium, MW-04 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Barium, MW-04 (mg/L)

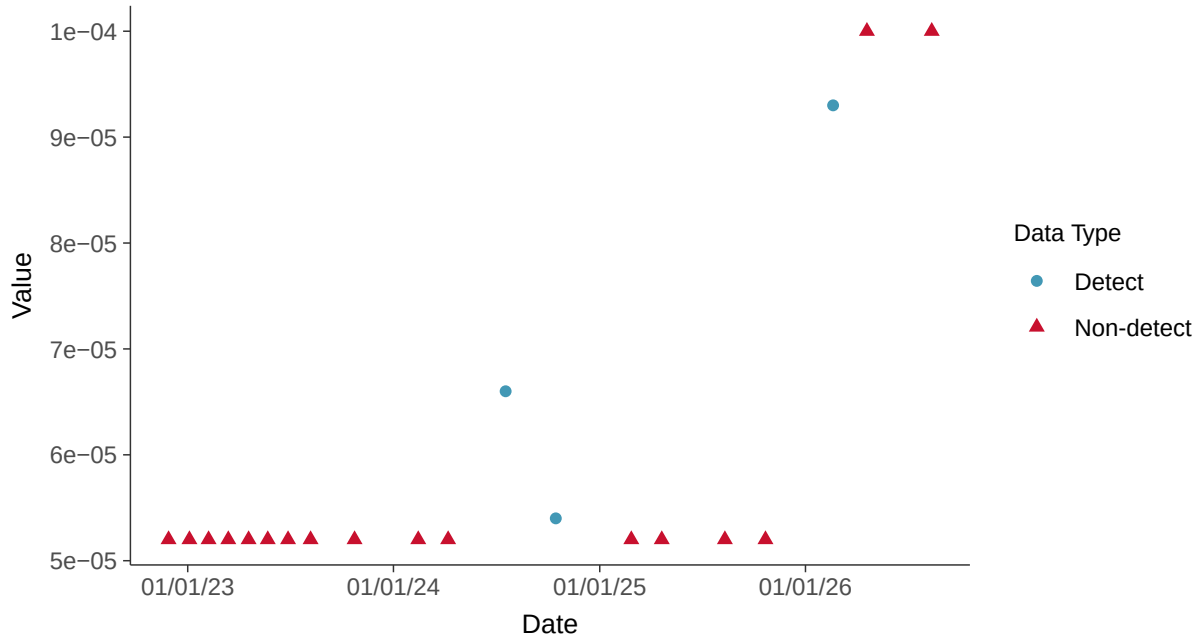


Appendix IV: Beryllium, MW-04

ID: 14_2_4_104

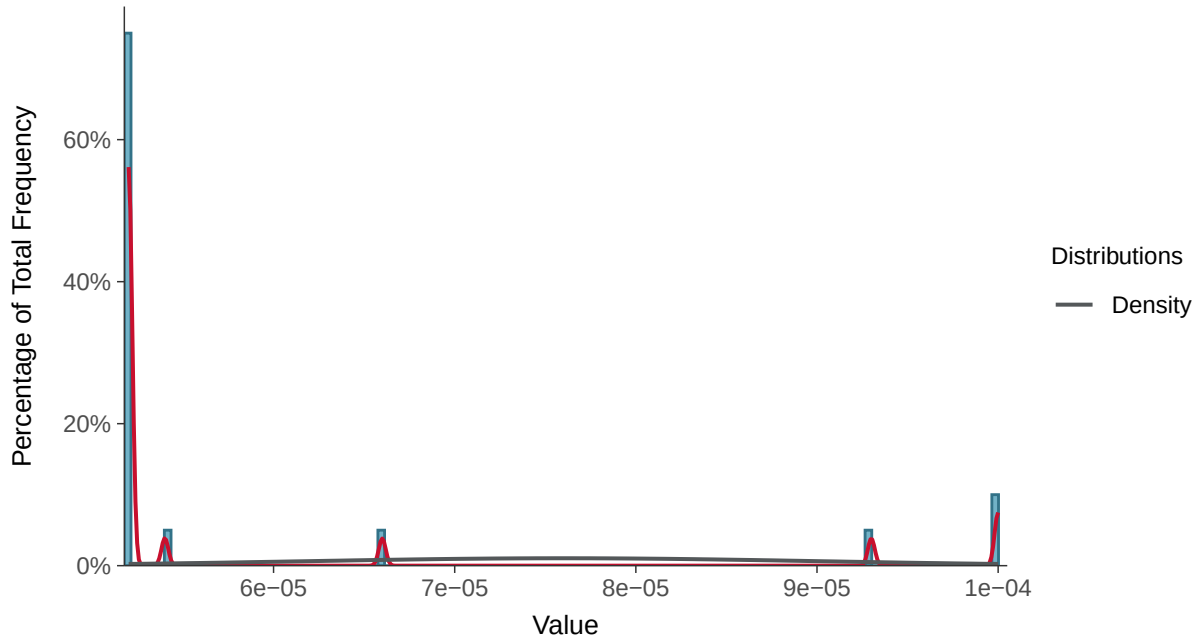
Scatter Plot

Beryllium, MW-04 (mg/L)



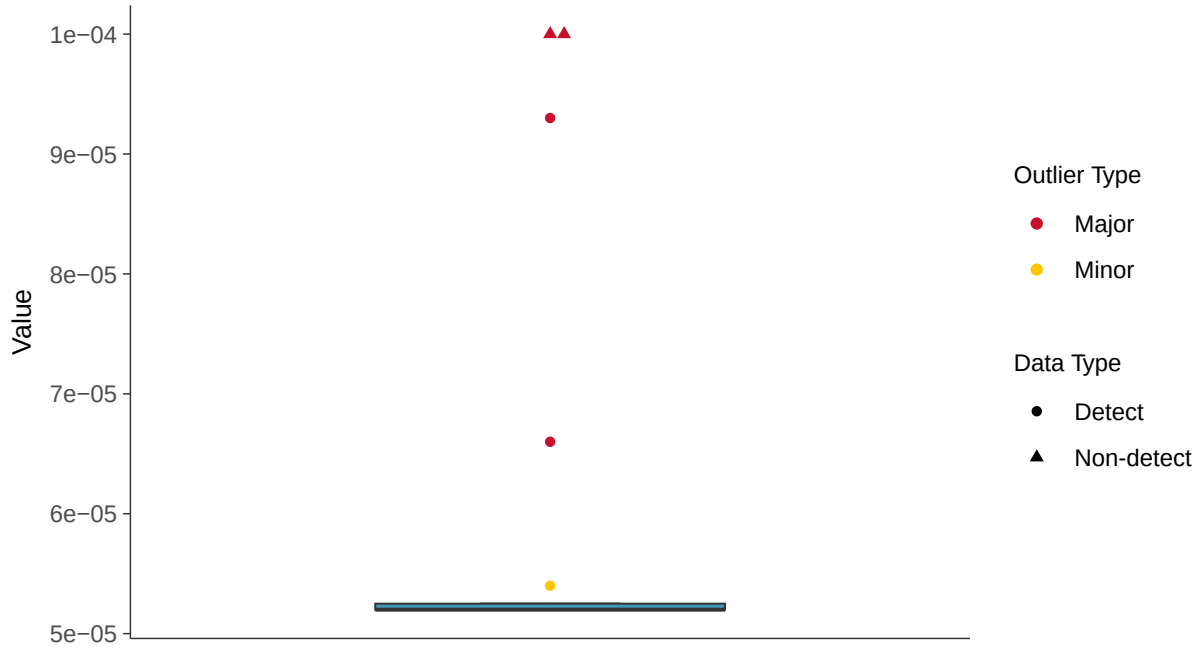
Histogram

Beryllium, MW-04 (mg/L)



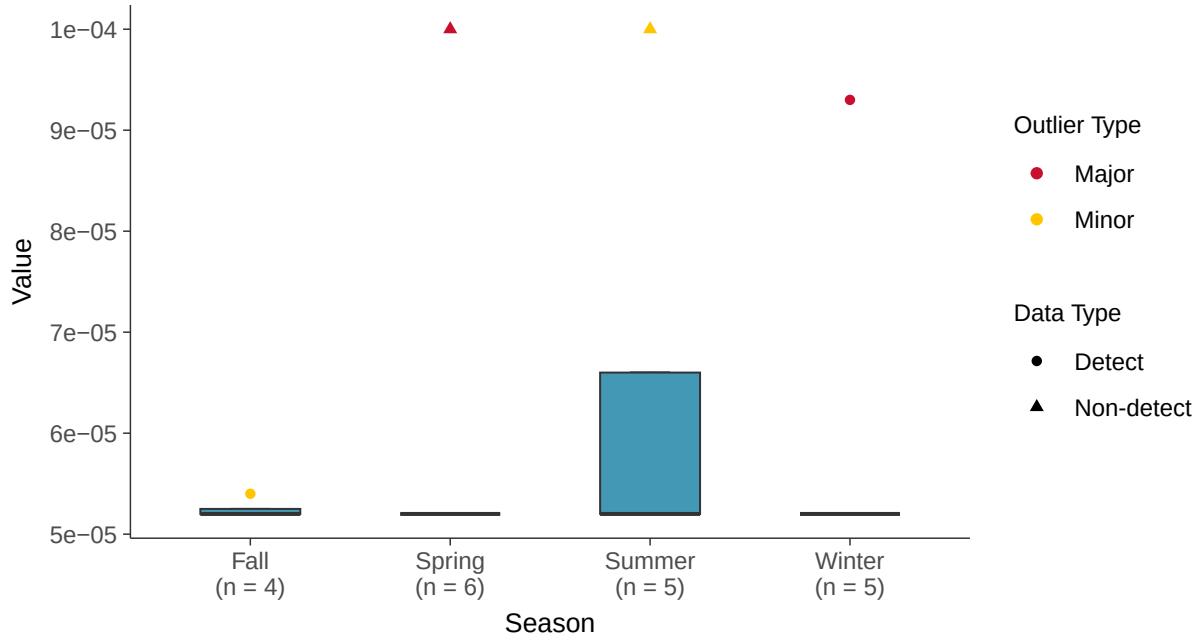
Boxplot

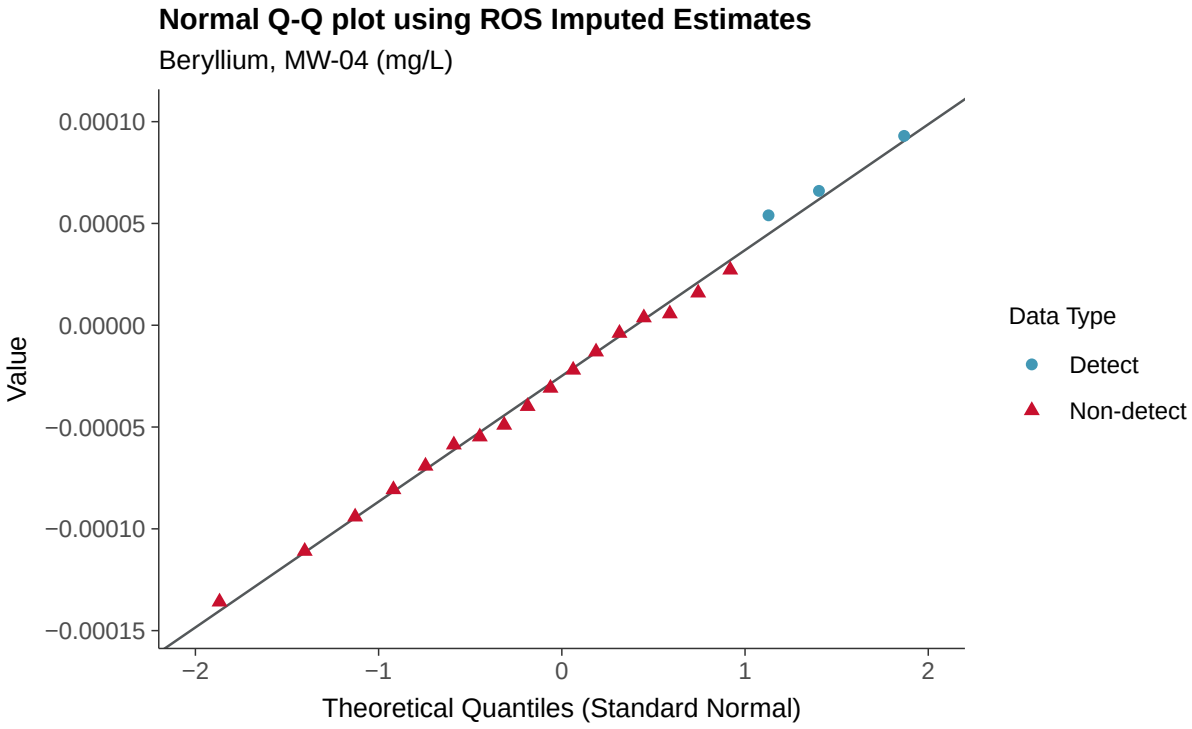
Beryllium, MW-04 (mg/L)



Boxplot by Season

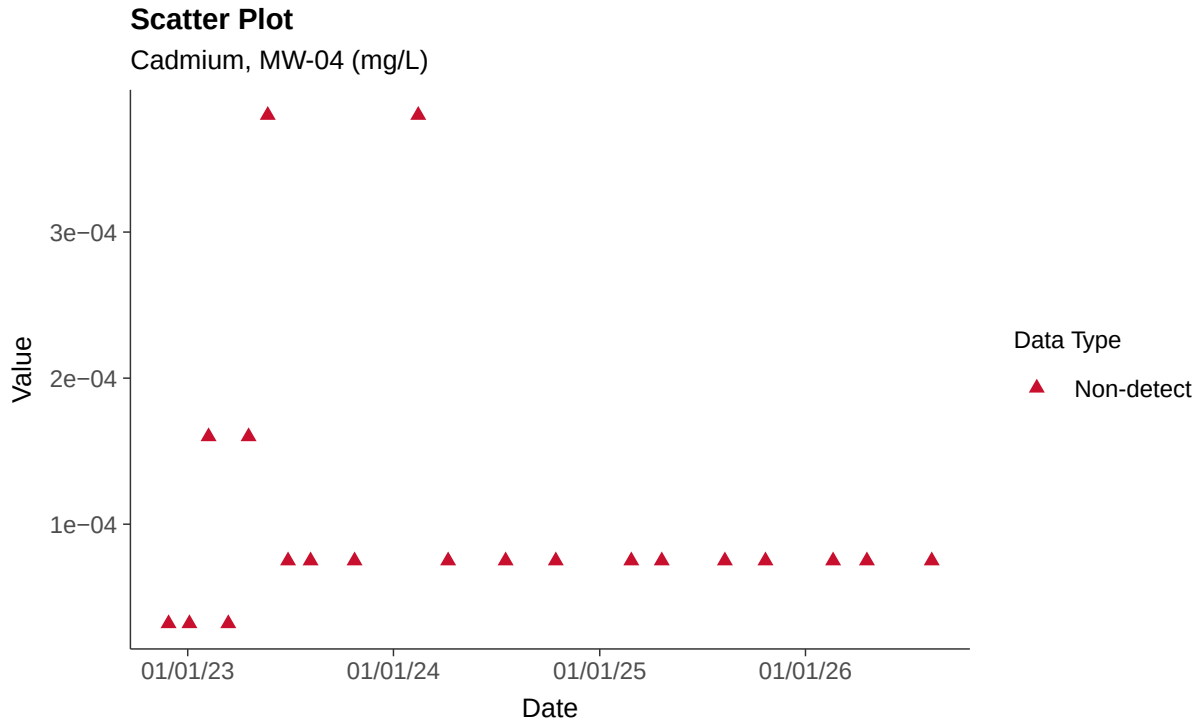
Beryllium, MW-04 (mg/L)

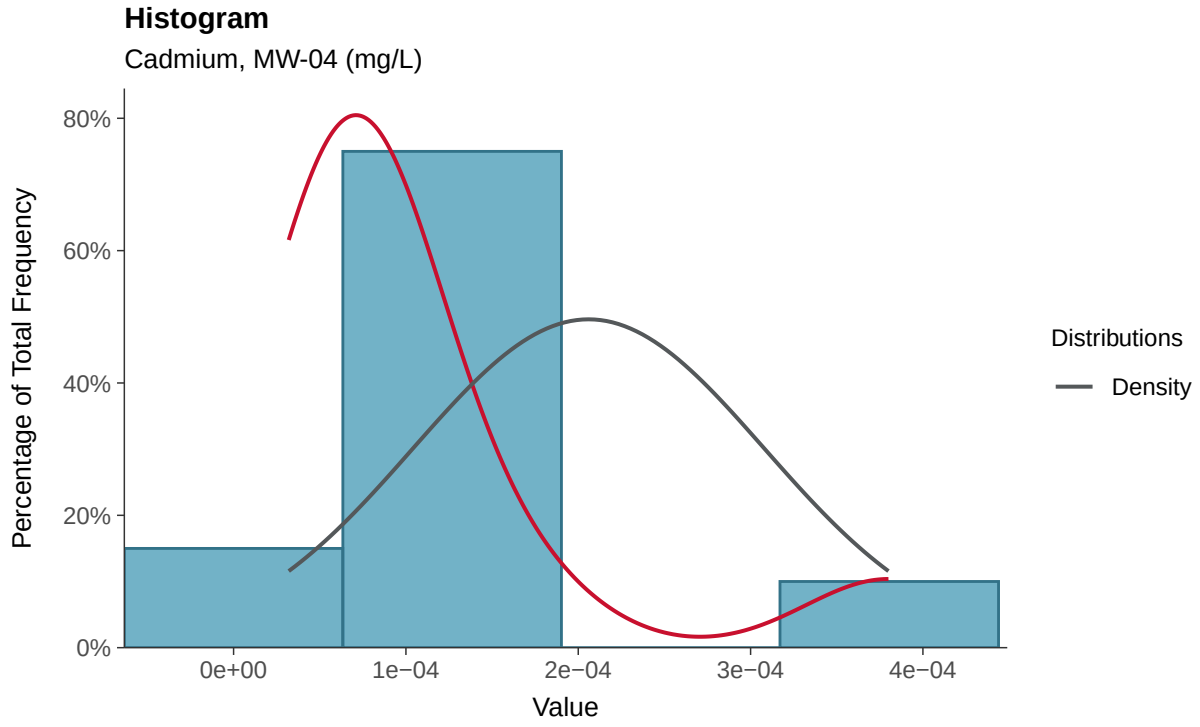



Normal Q-Q plot using ROS Imputed Estimates
Beryllium, MW-04 (mg/L)
Value
0.00010
0.00005
0.00000
−0.00005
−0.00010
−0.00015
−2
−1
0
1
2
Theoretical Quantiles (Standard Normal)
Data Type
Detect
Non-detect

Appendix IV: Cadmium, MW-04

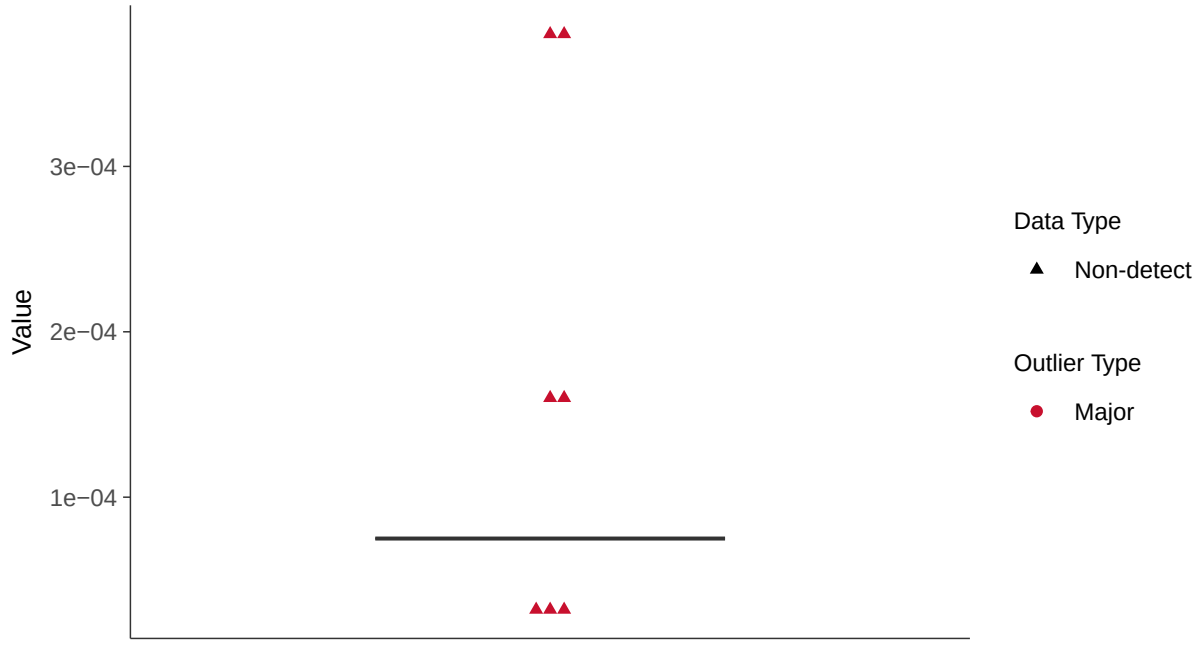
ID: 14_2_4_106





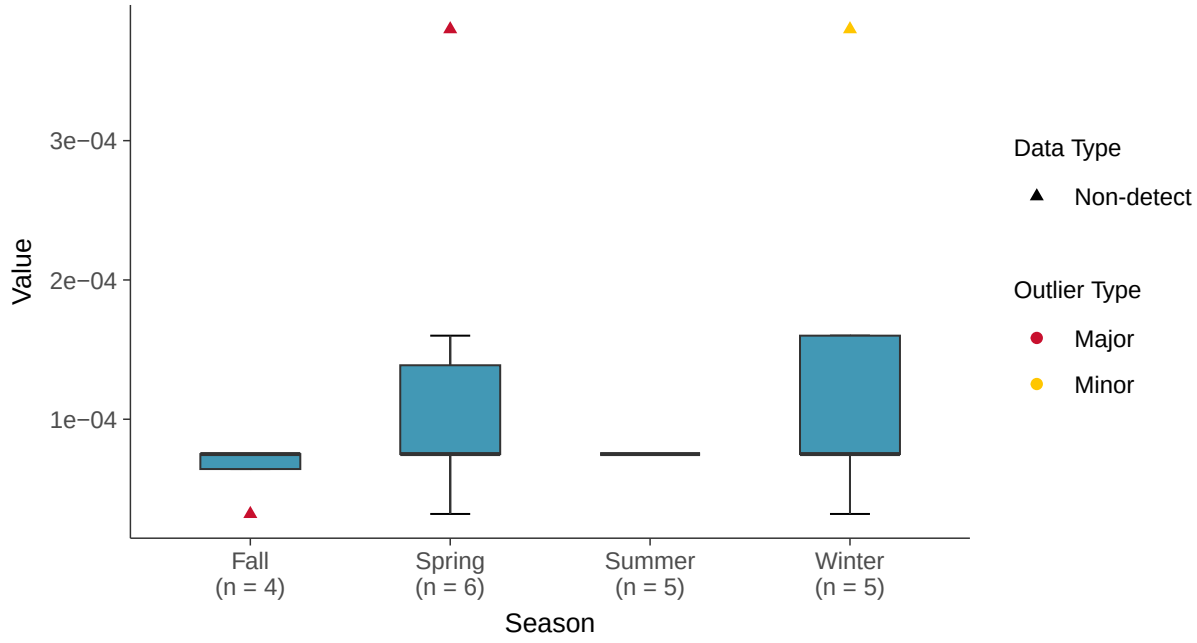
Boxplot

Cadmium, MW-04 (mg/L)



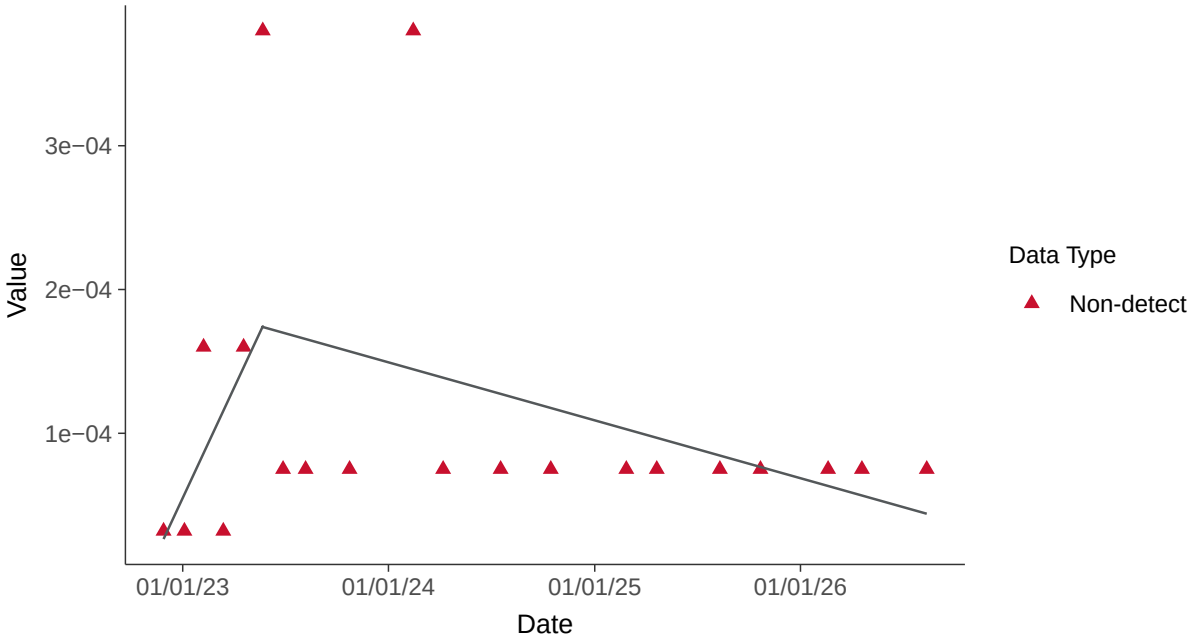
Boxplot by Season

Cadmium, MW-04 (mg/L)



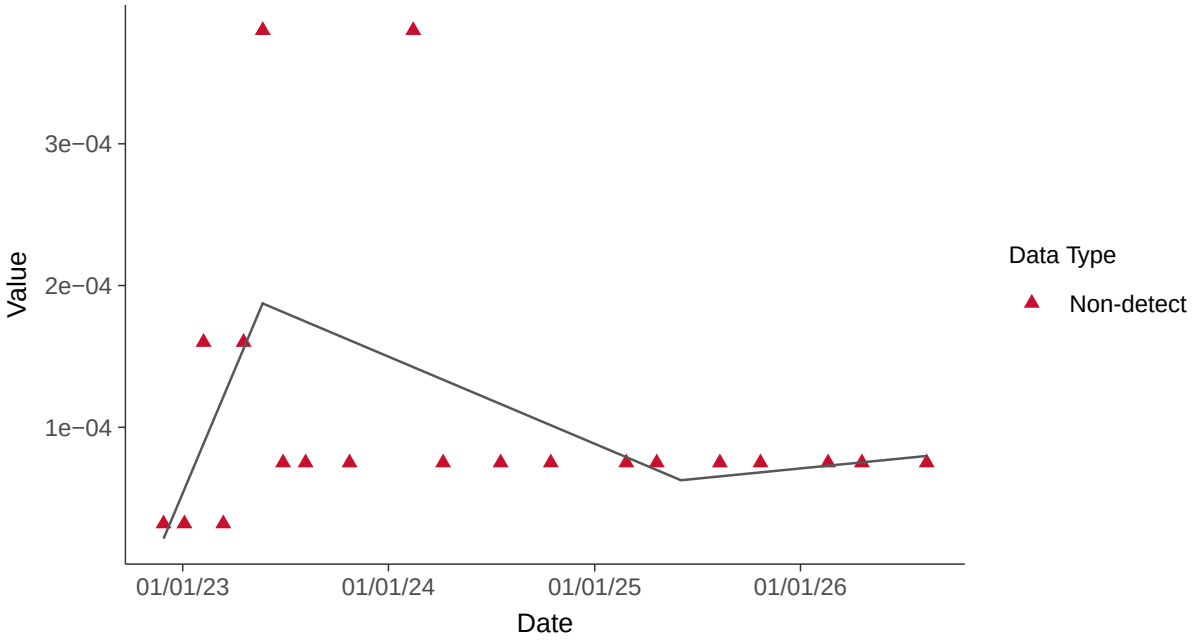
Trend Regression: Piecewise Linear-Linear

Cadmium, MW-04 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Cadmium, MW-04 (mg/L)

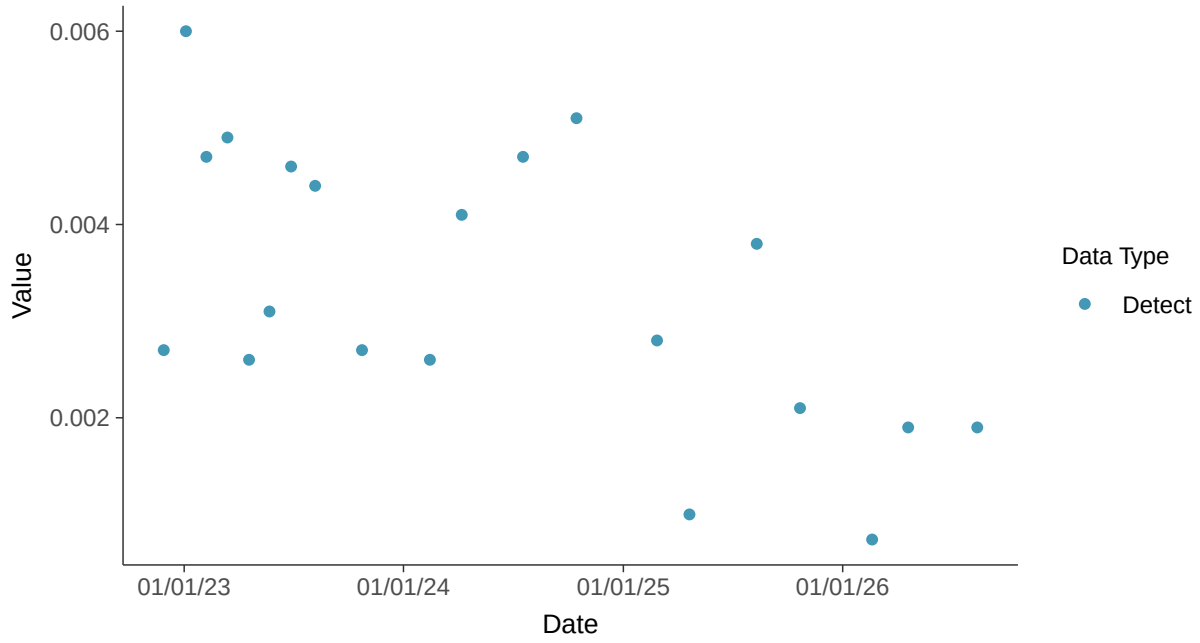


Appendix IV: Chromium, Total, MW-04

ID: 14_2_4_109

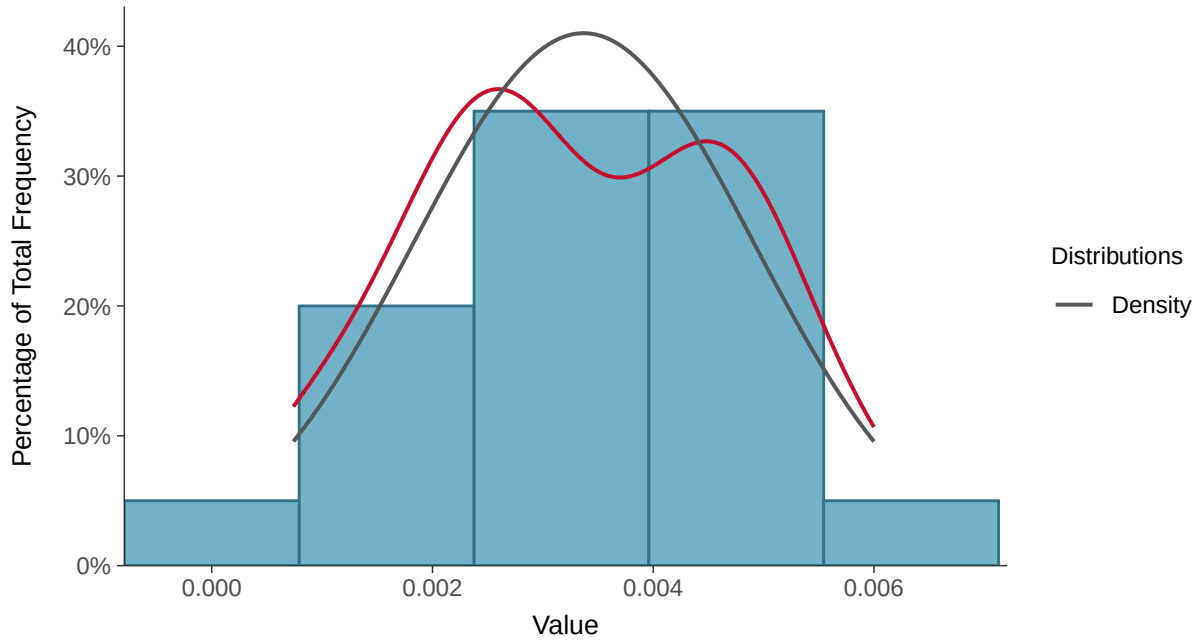
Scatter Plot

Chromium, Total, MW-04 (mg/L)



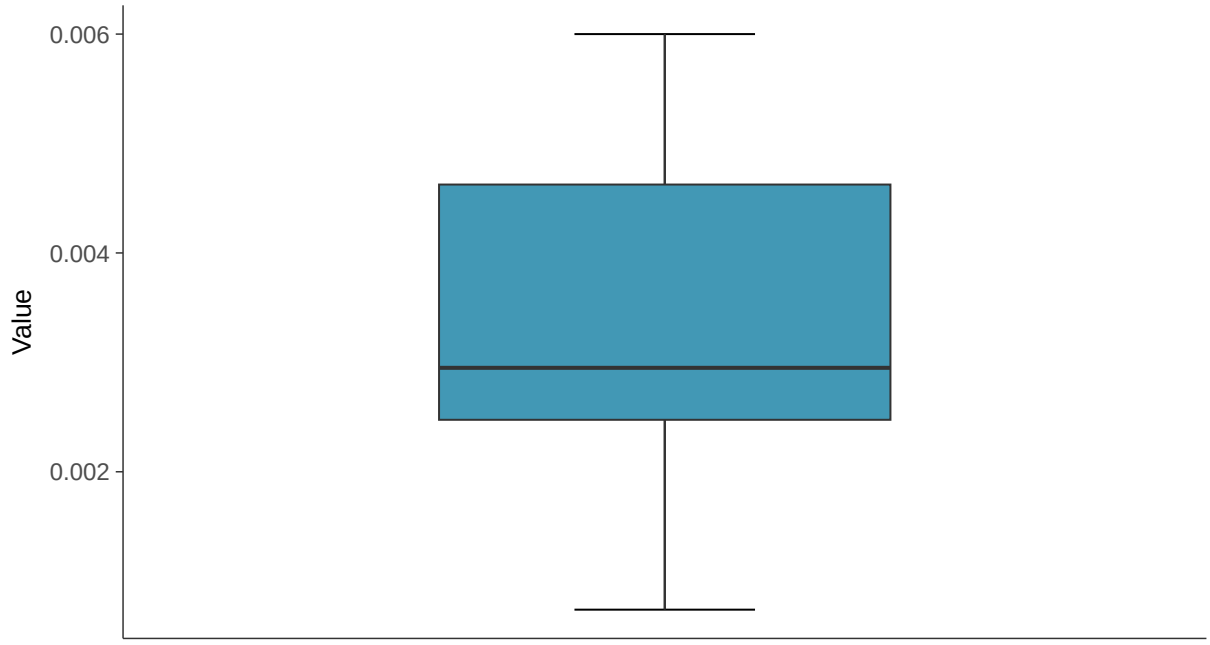
Histogram

Chromium, Total, MW-04 (mg/L)



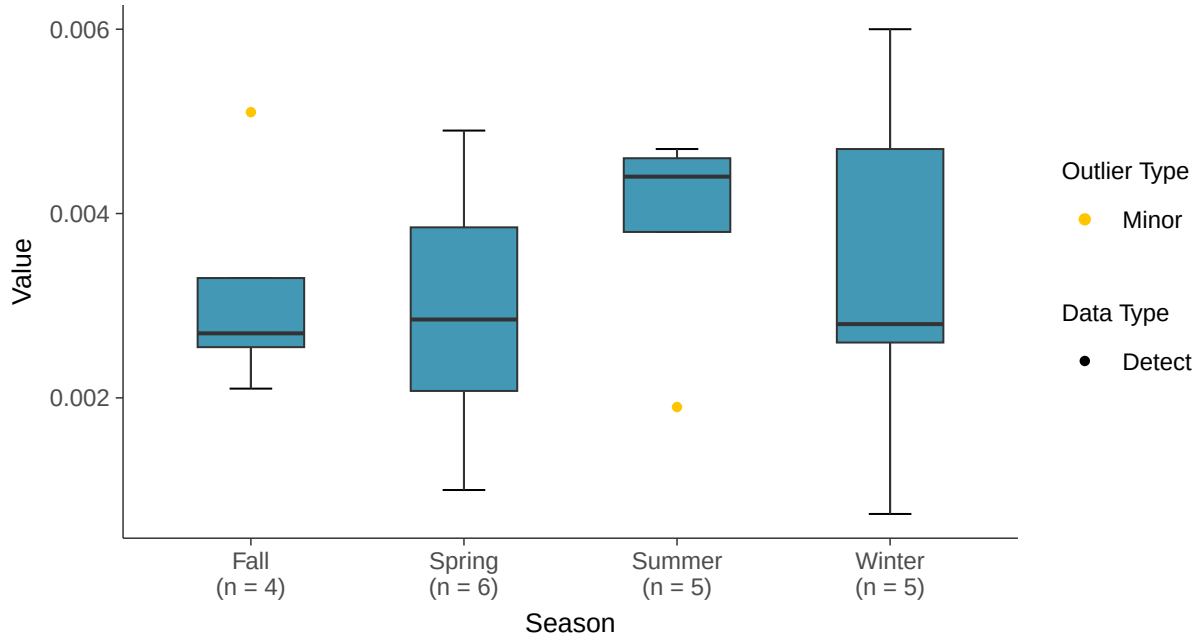
Boxplot

Chromium, Total, MW-04 (mg/L)



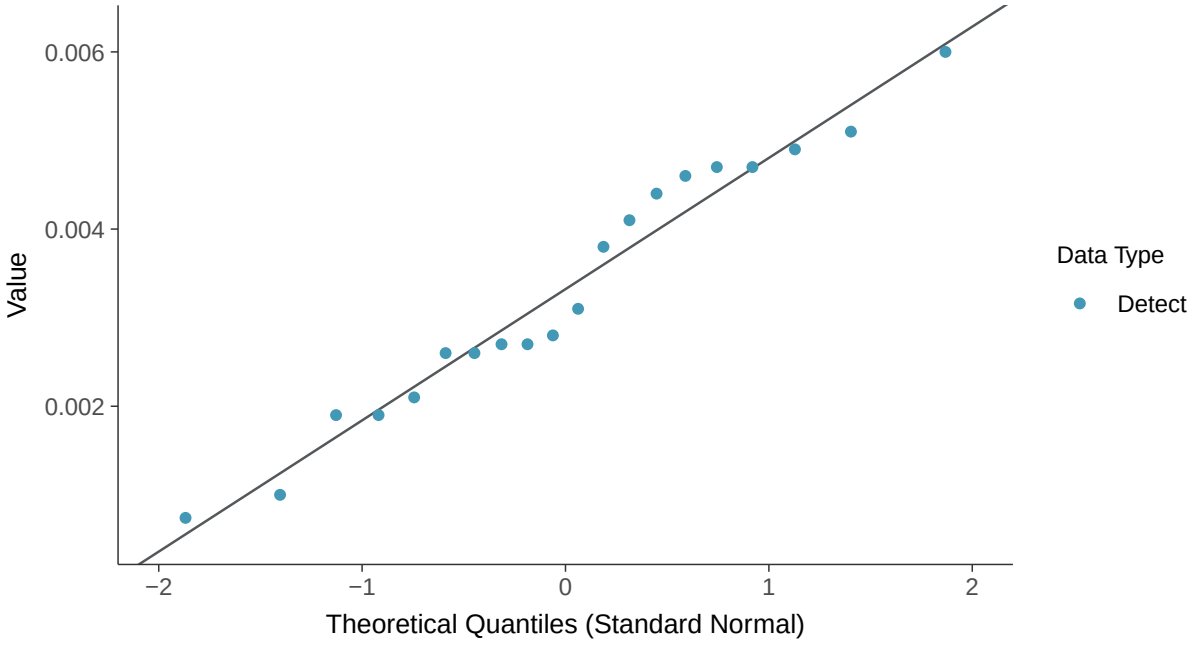
Boxplot by Season

Chromium, Total, MW-04 (mg/L)



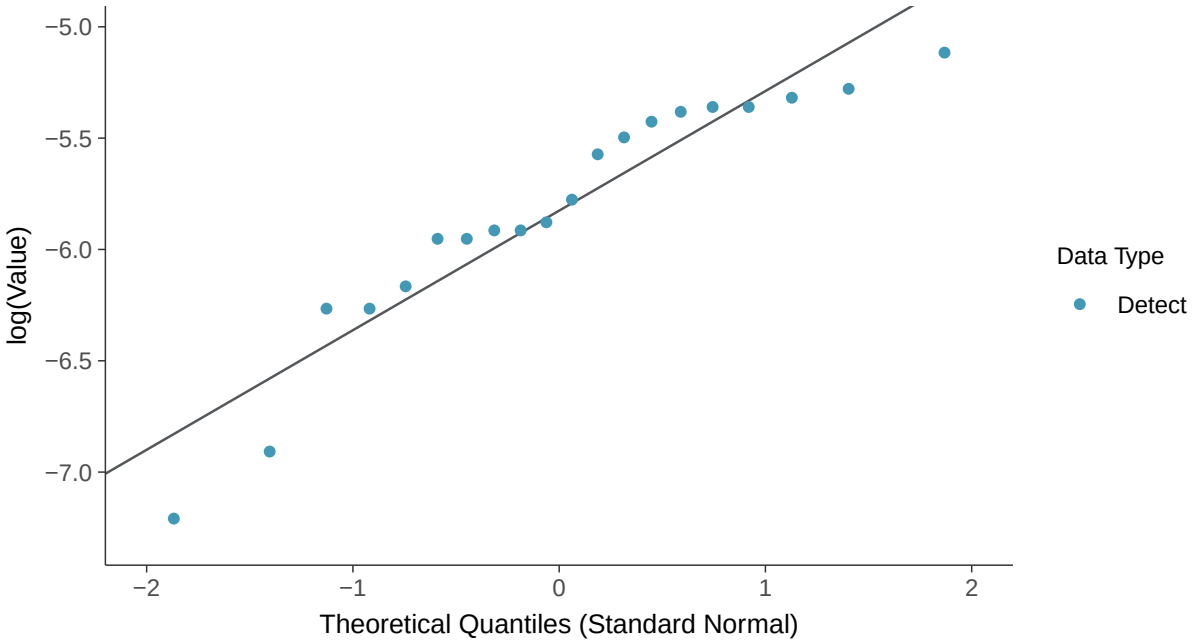
Normal Q-Q plot

Chromium, Total, MW-04 (mg/L)



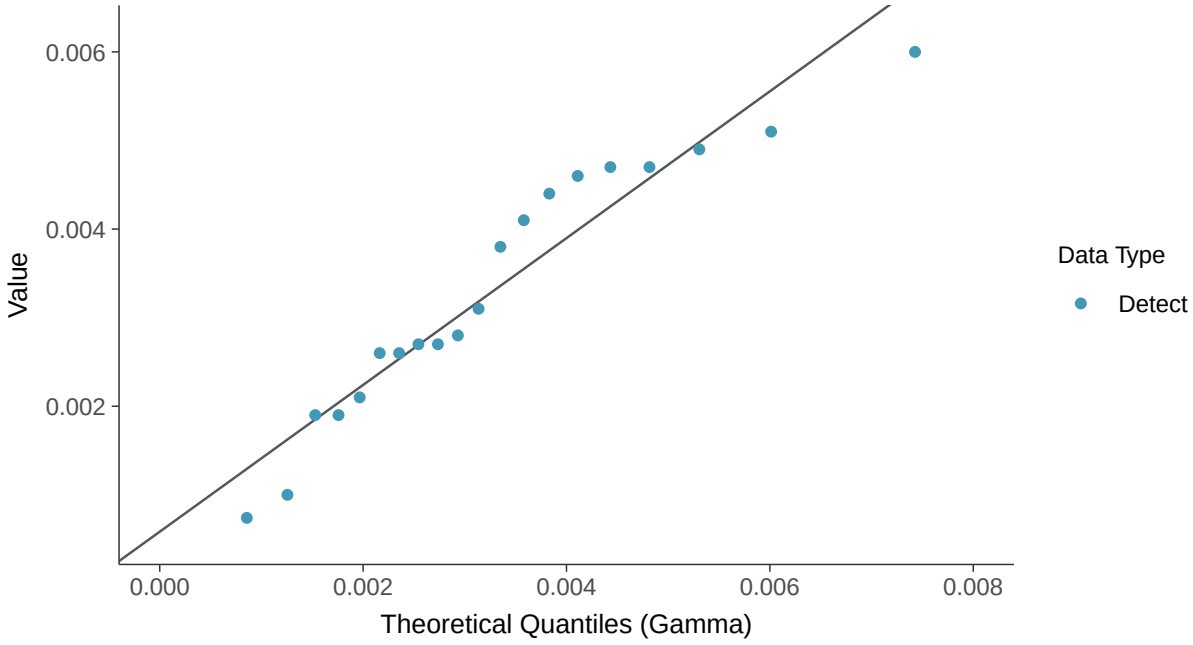
Lognormal Q-Q plot

Chromium, Total, MW-04 (mg/L)



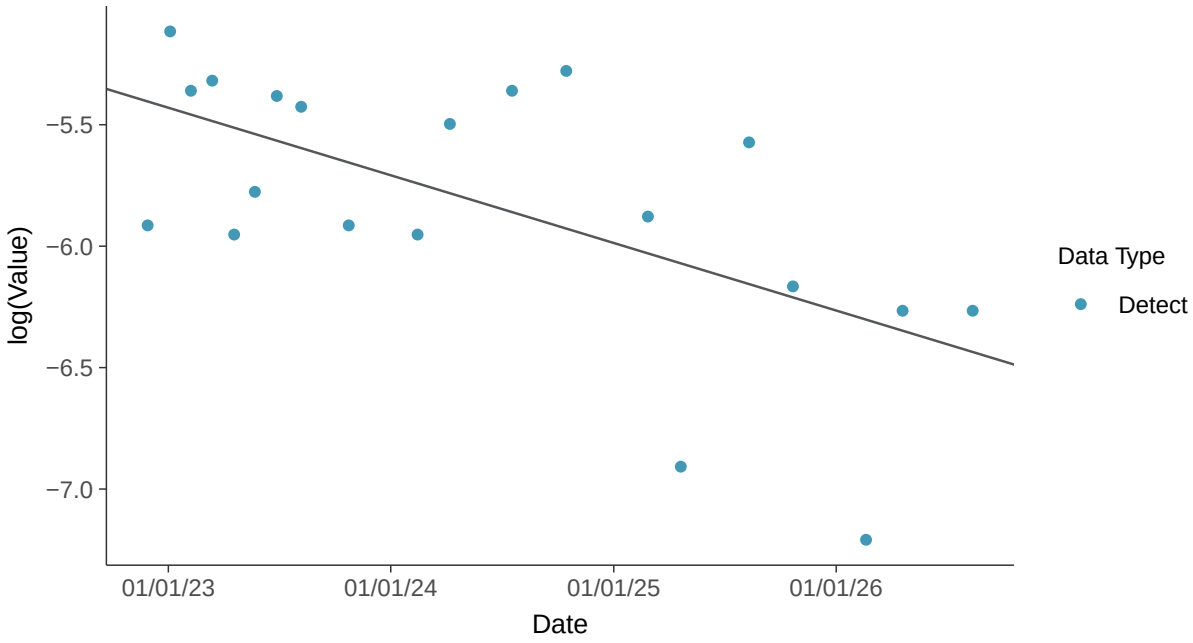
Gamma Q-Q plot

Chromium, Total, MW-04 (mg/L)



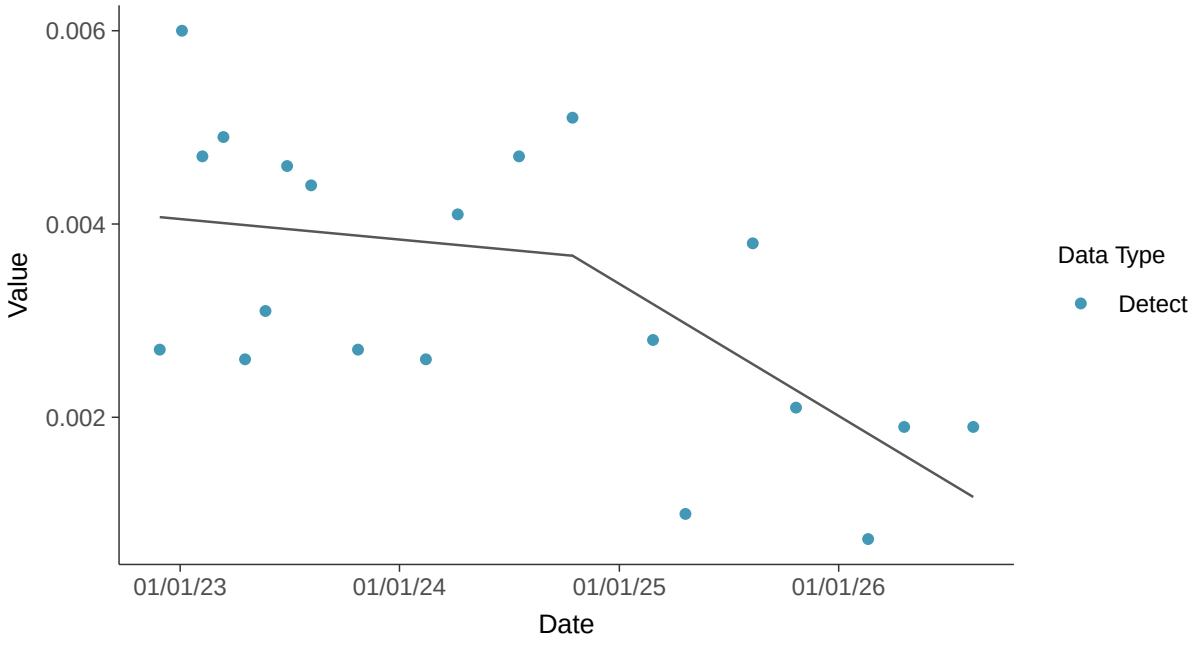
Trend Regression: Lognormal MLE

Chromium, Total, MW-04 (mg/L)



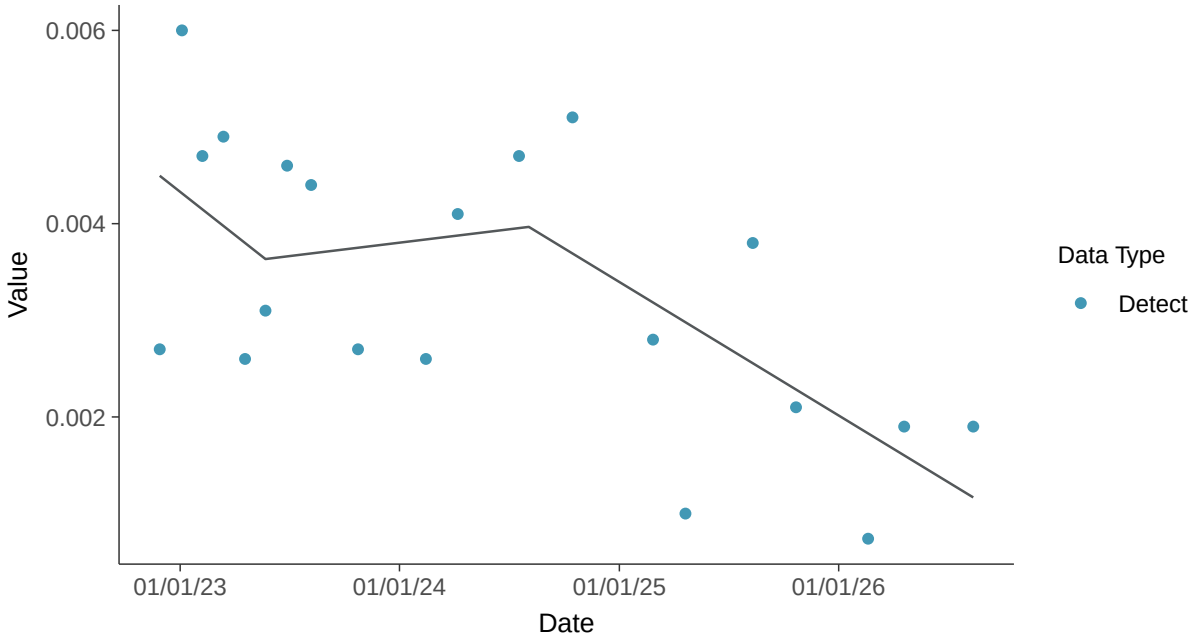
Trend Regression: Piecewise Linear-Linear

Chromium, Total, MW-04 (mg/L)



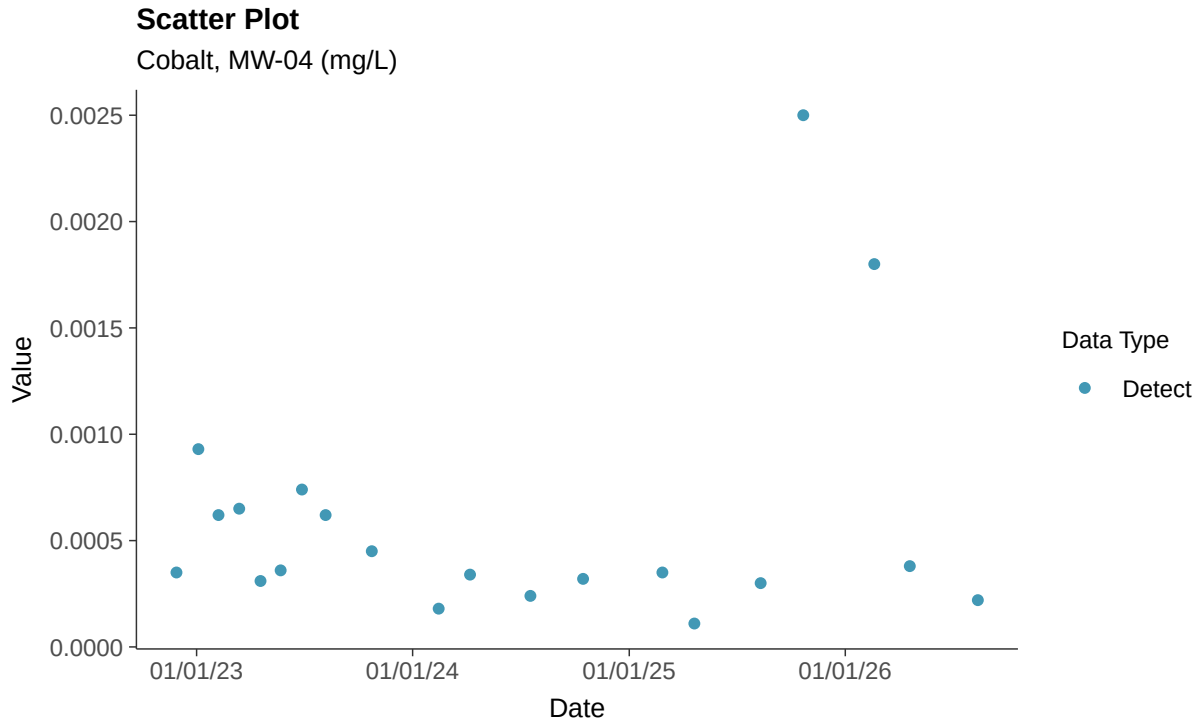
Trend Regression: Piecewise Linear-Linear-Linear

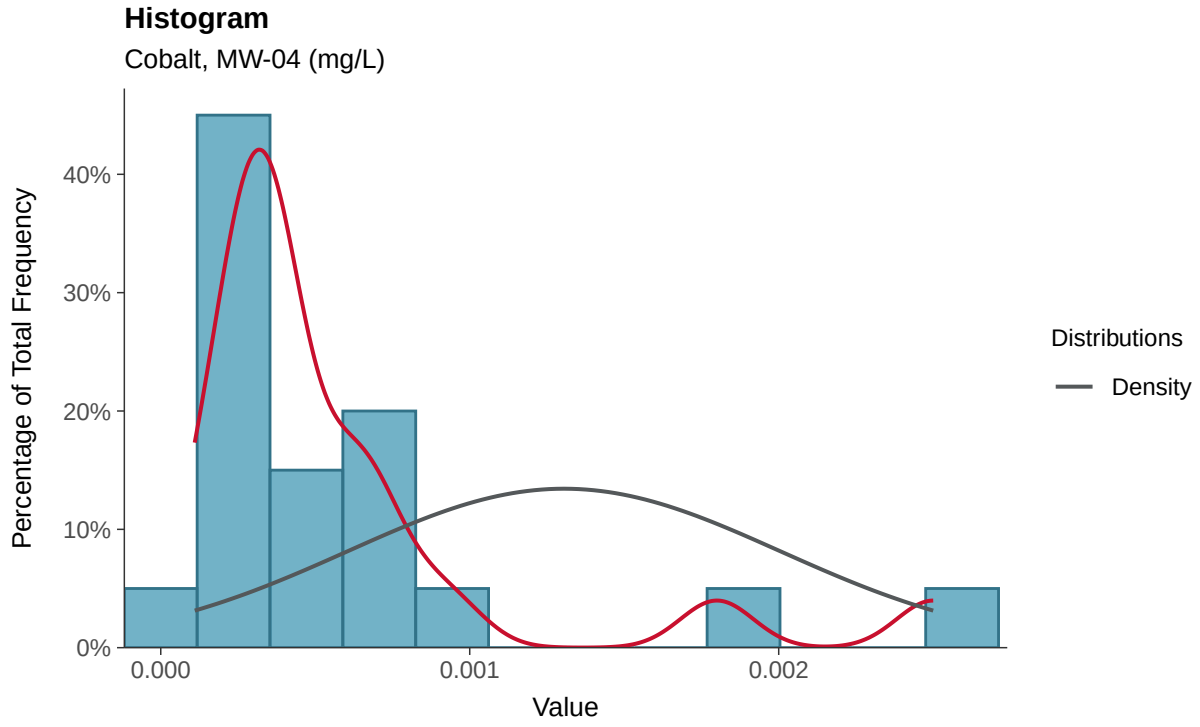
Chromium, Total, MW-04 (mg/L)



Appendix IV: Cobalt, MW-04

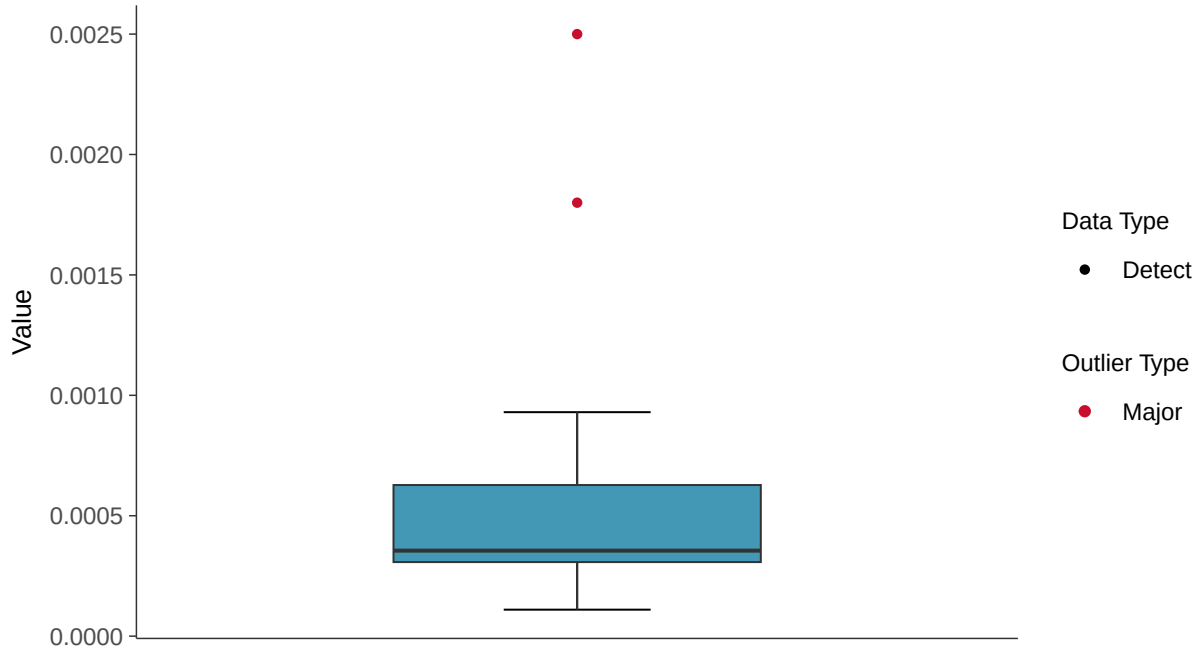
ID: 14_2_4_110





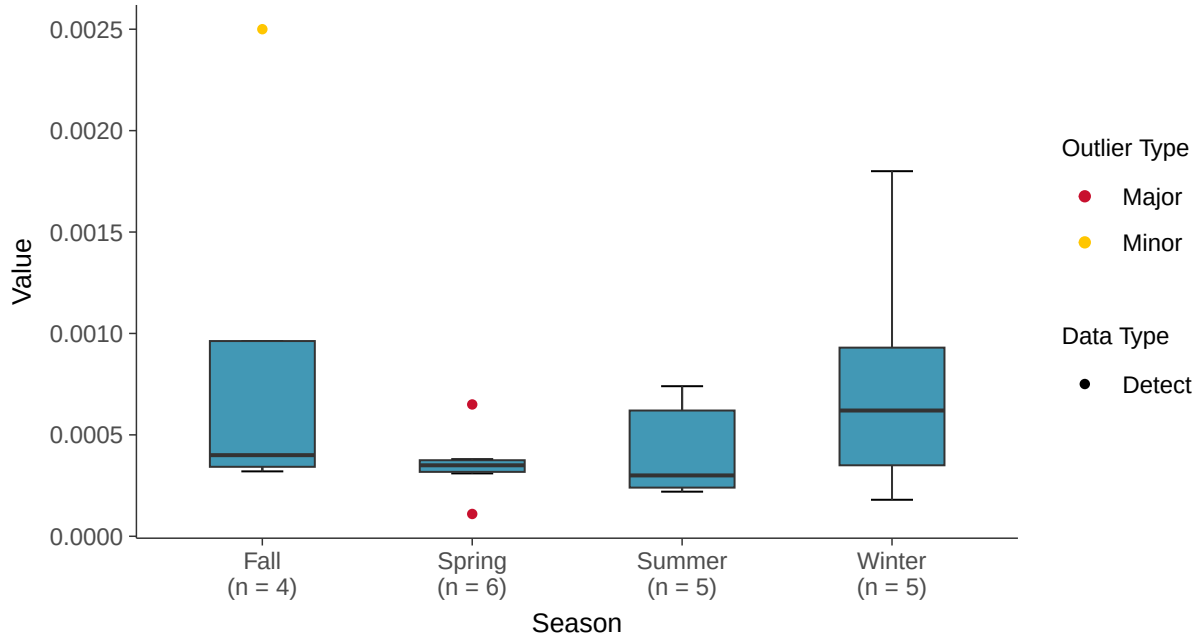
Boxplot

Cobalt, MW-04 (mg/L)



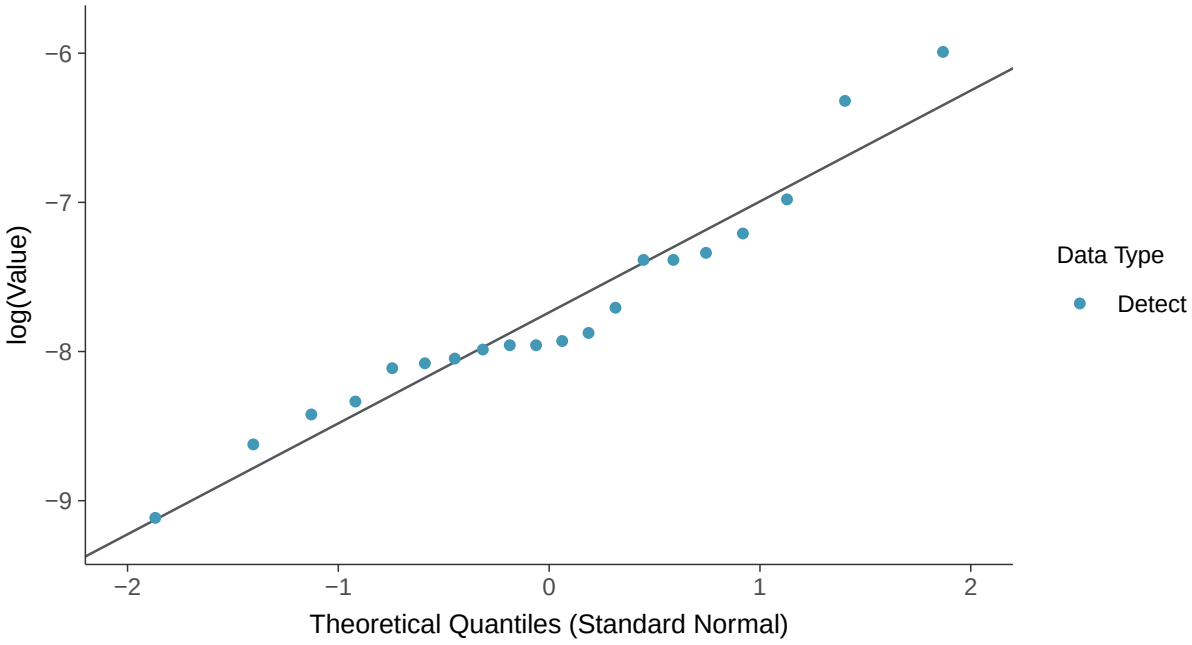
Boxplot by Season

Cobalt, MW-04 (mg/L)



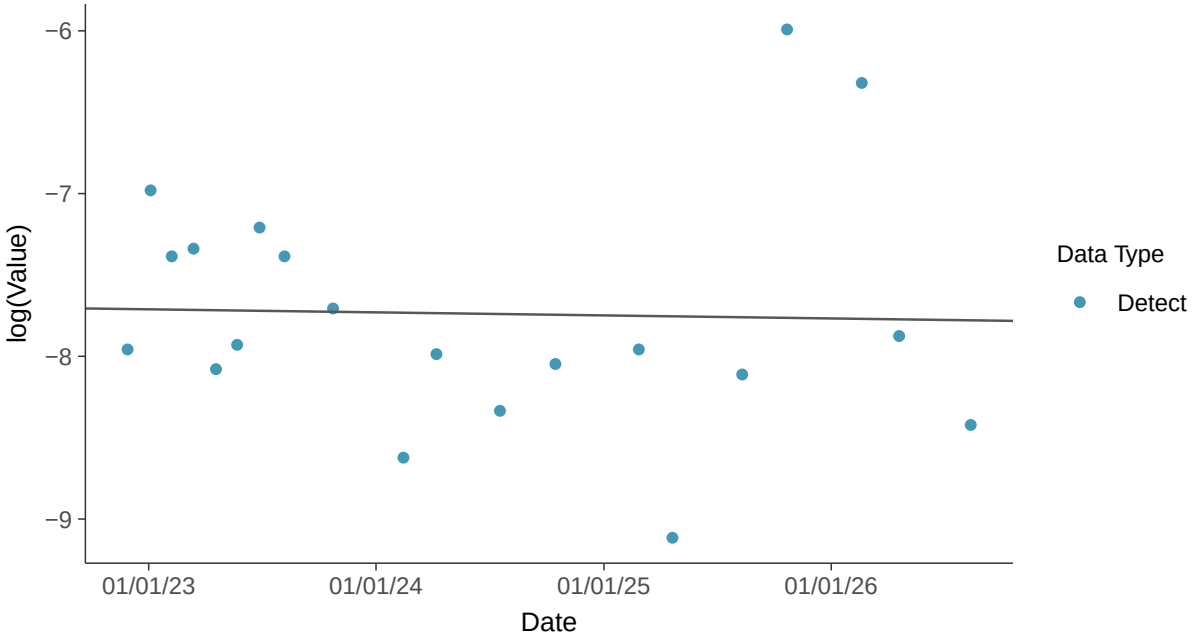
Lognormal Q-Q plot

Cobalt, MW-04 (mg/L)



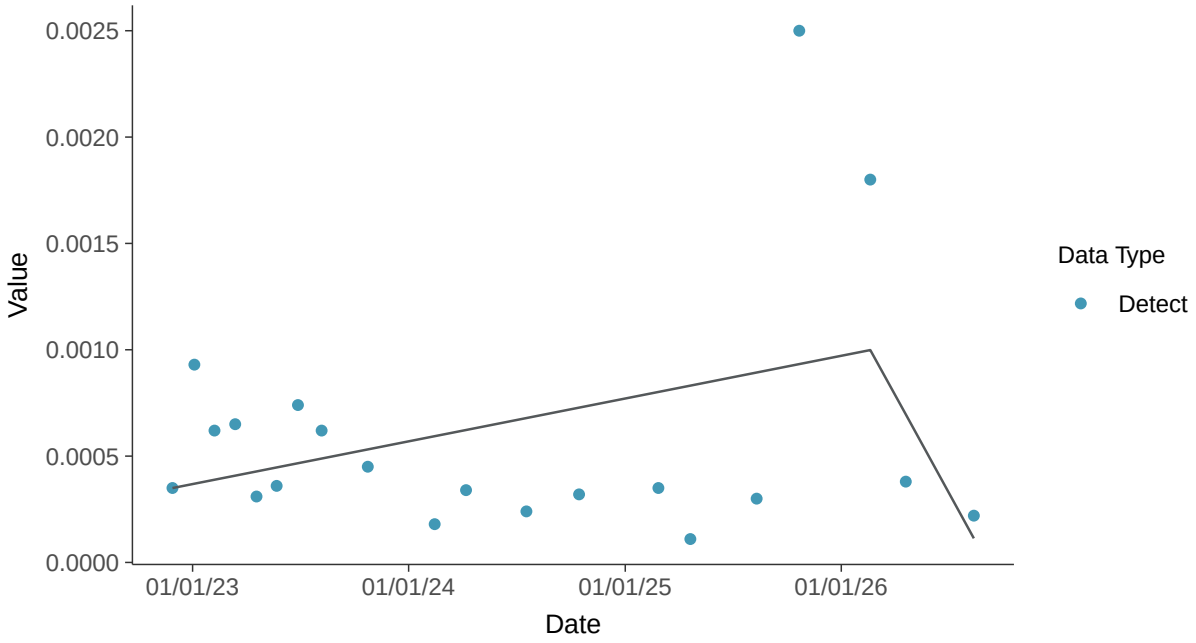
Trend Regression: Lognormal MLE

Cobalt, MW-04 (mg/L)



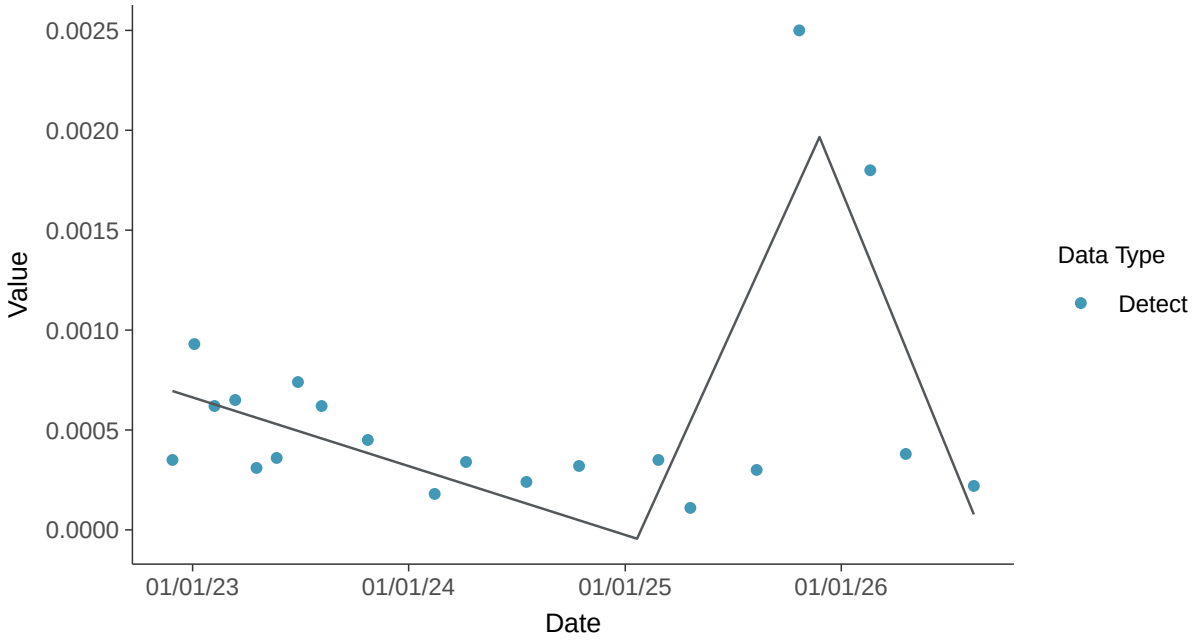
Trend Regression: Piecewise Linear-Linear

Cobalt, MW-04 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Cobalt, MW-04 (mg/L)

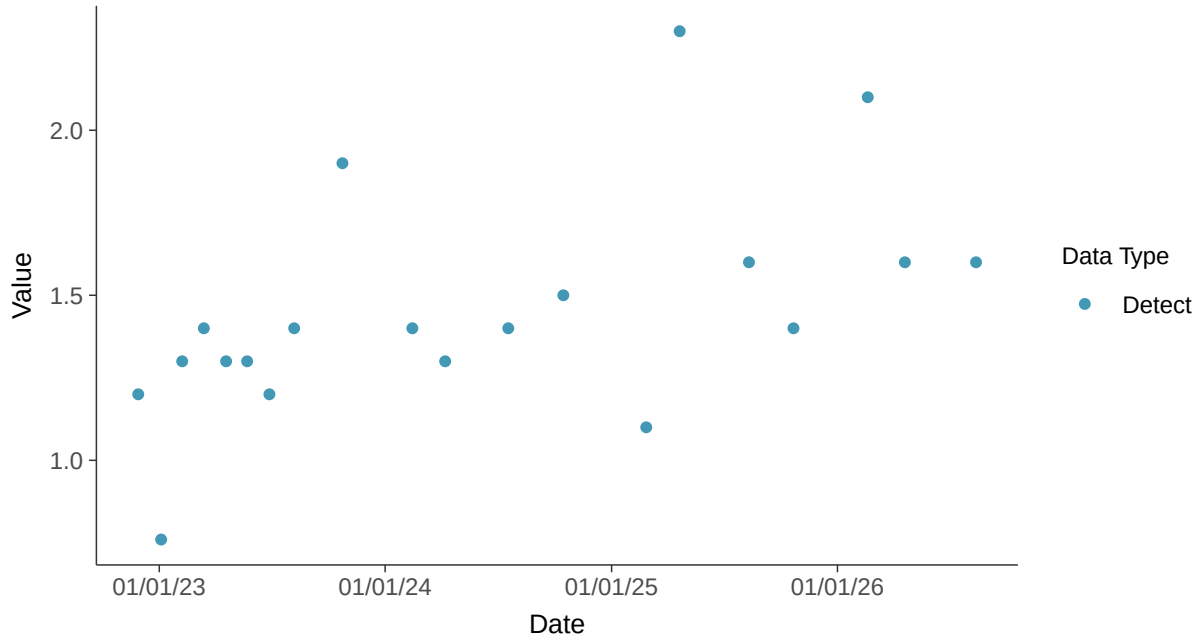


Appendix IV: Fluoride (App IV), MW-04

ID: 14_2_4_113

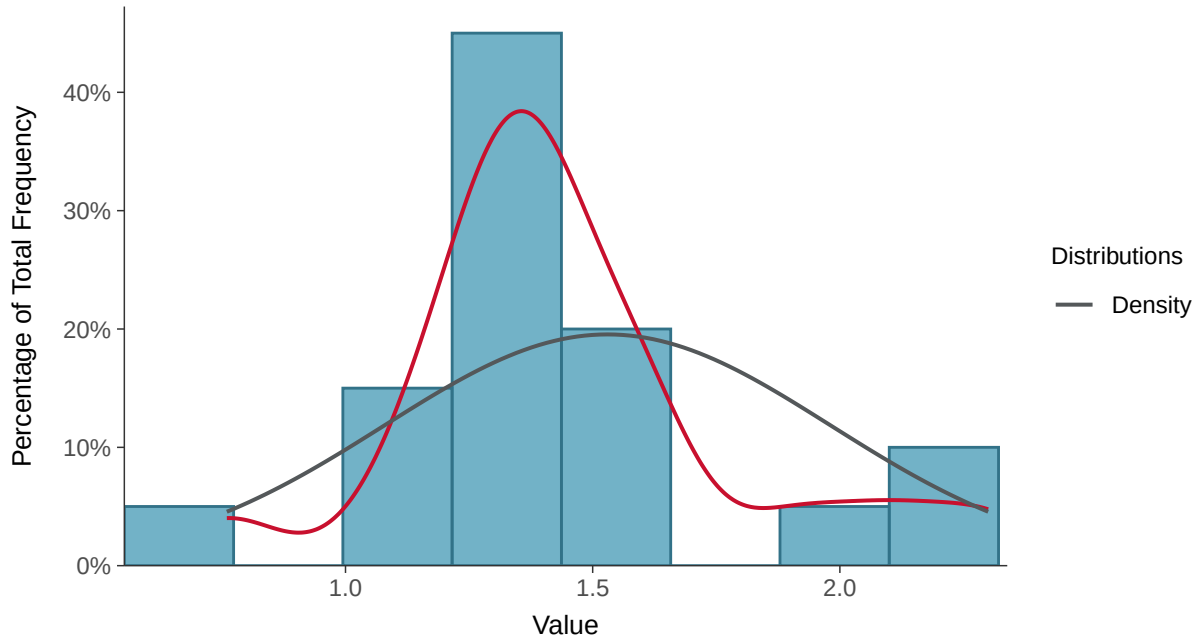
Scatter Plot

Fluoride (App IV), MW-04 (mg/L)



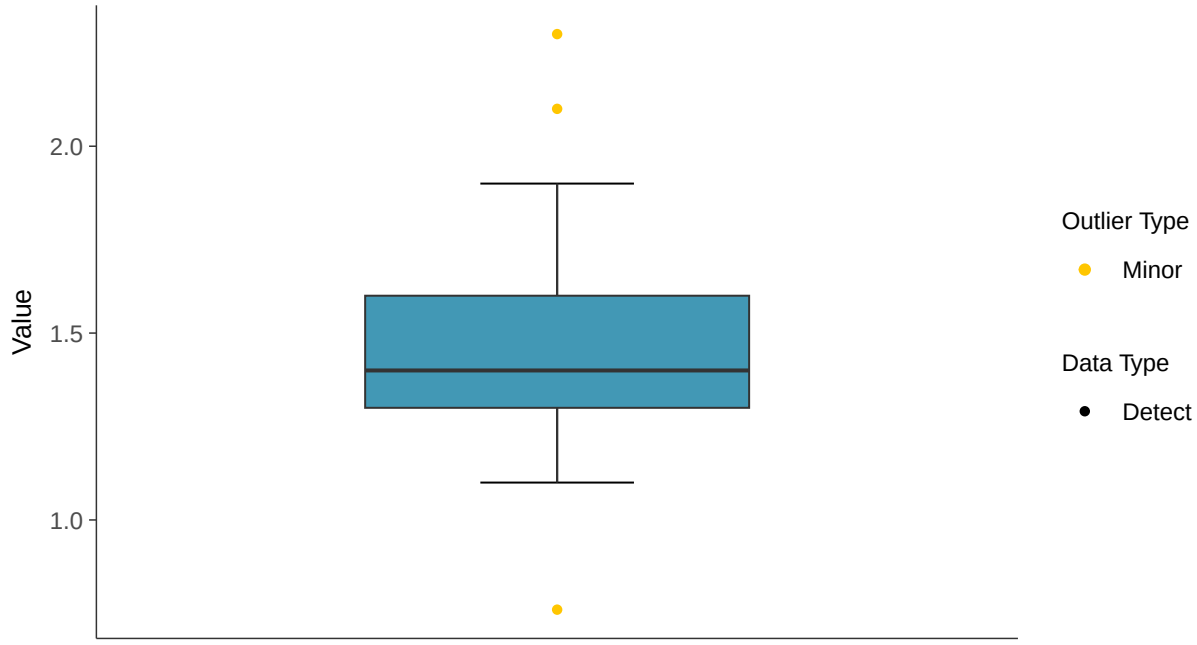
Histogram

Fluoride (App IV), MW-04 (mg/L)



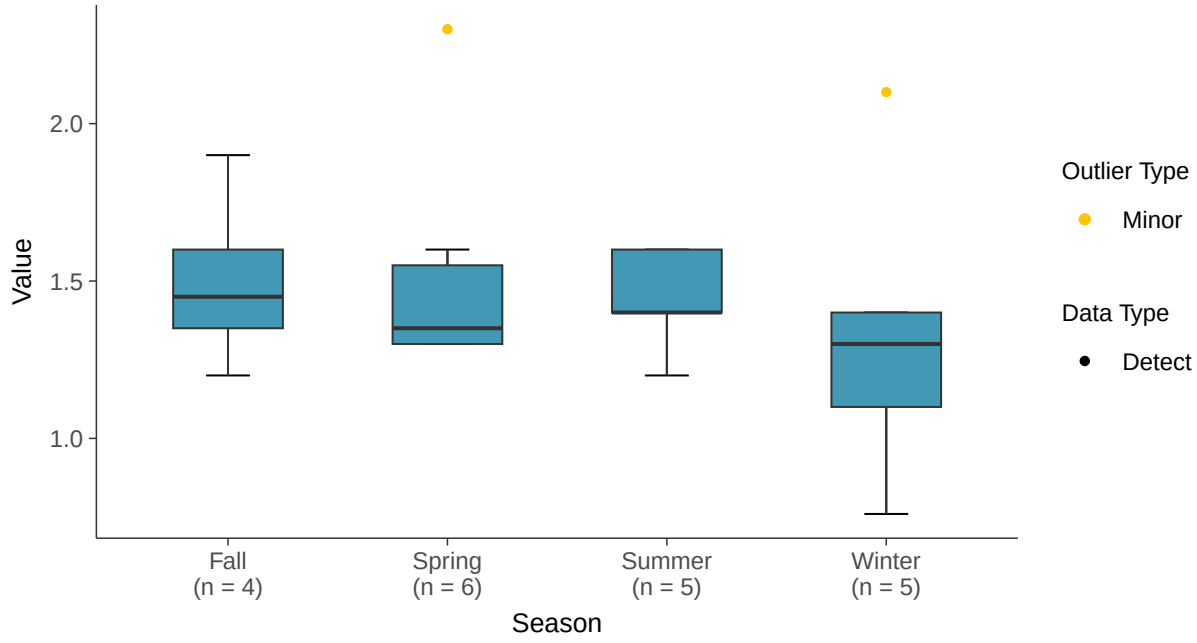
Boxplot

Fluoride (App IV), MW-04 (mg/L)



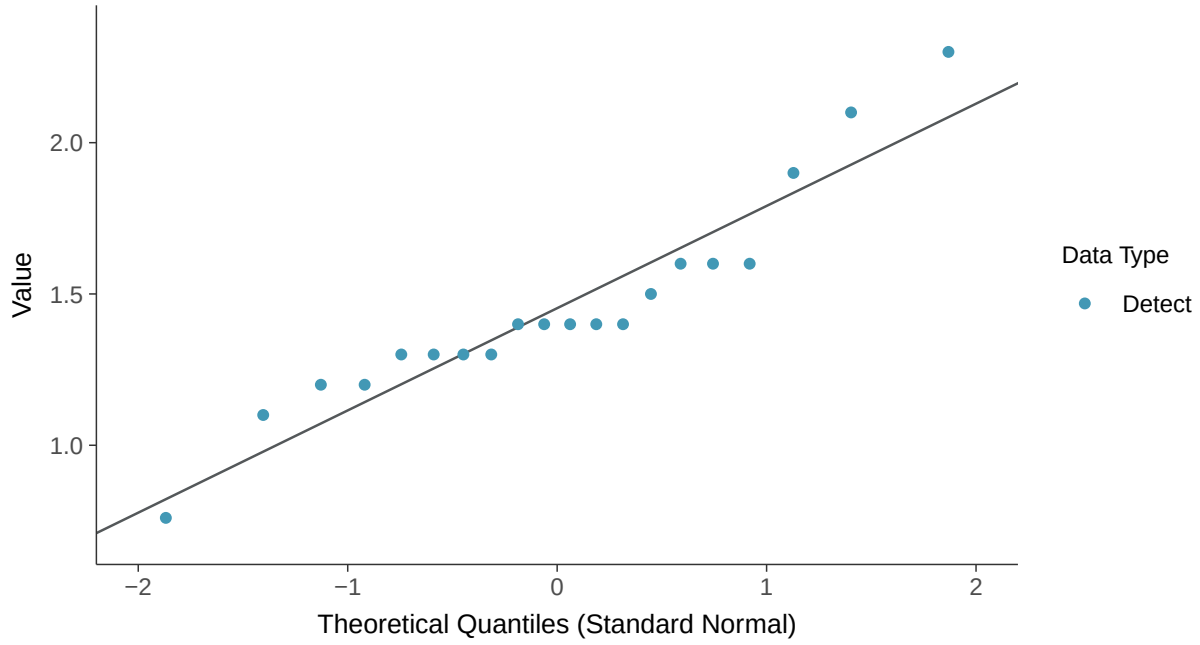
Boxplot by Season

Fluoride (App IV), MW-04 (mg/L)



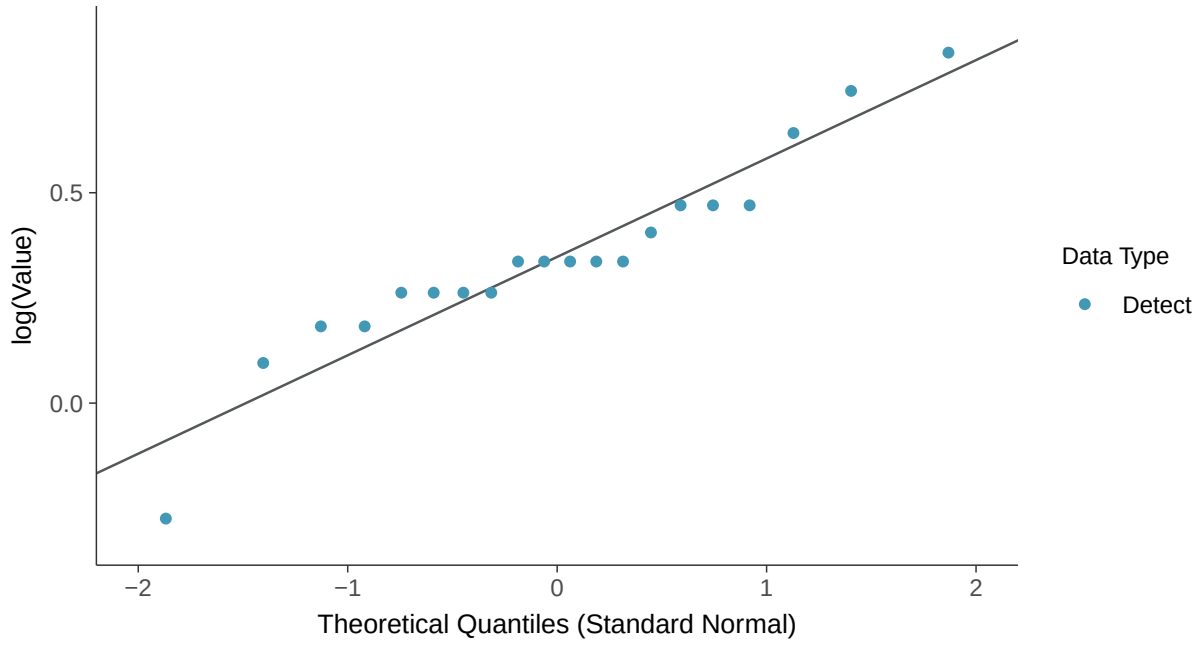
Normal Q-Q plot

Fluoride (App IV), MW-04 (mg/L)



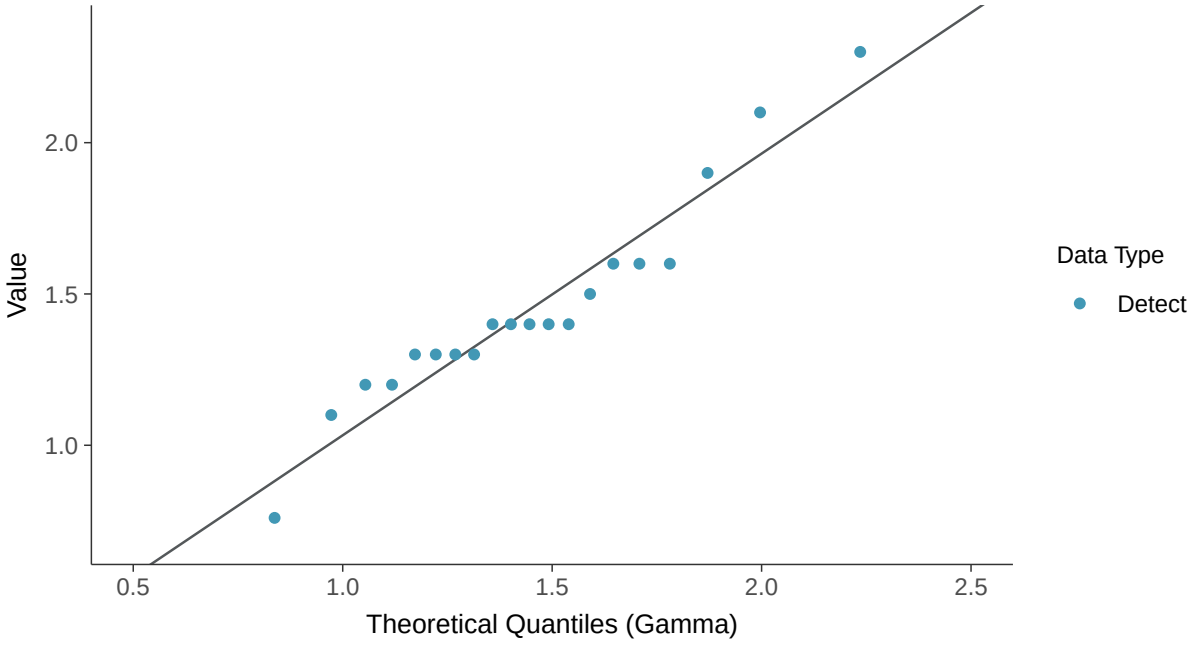
Lognormal Q-Q plot

Fluoride (App IV), MW-04 (mg/L)



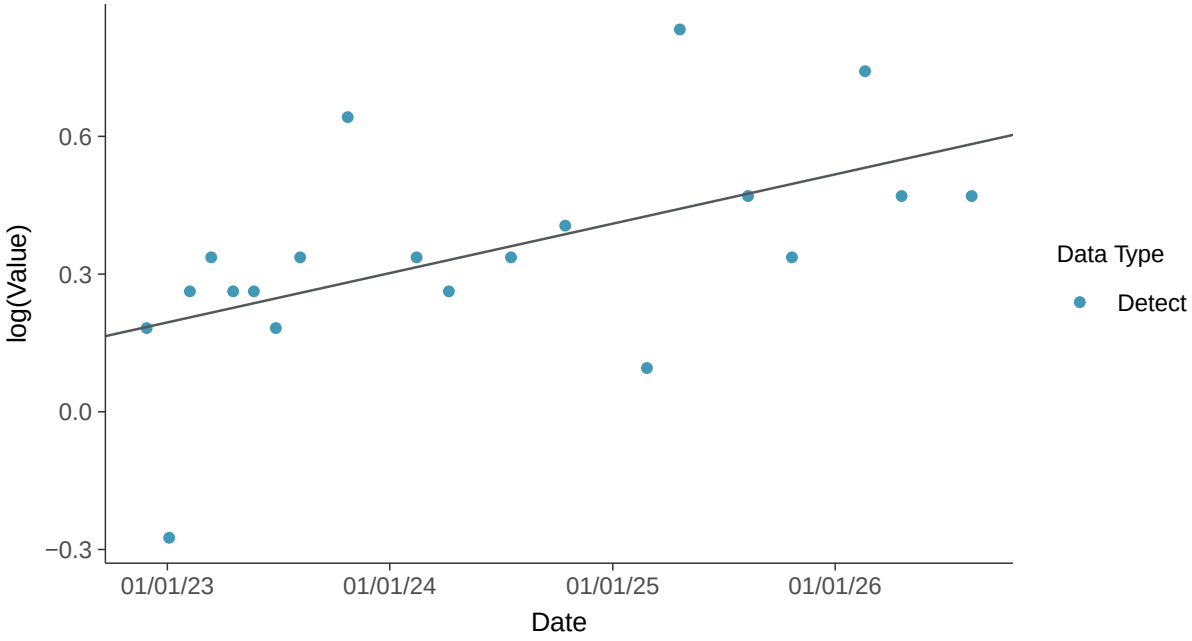
Gamma Q-Q plot

Fluoride (App IV), MW-04 (mg/L)



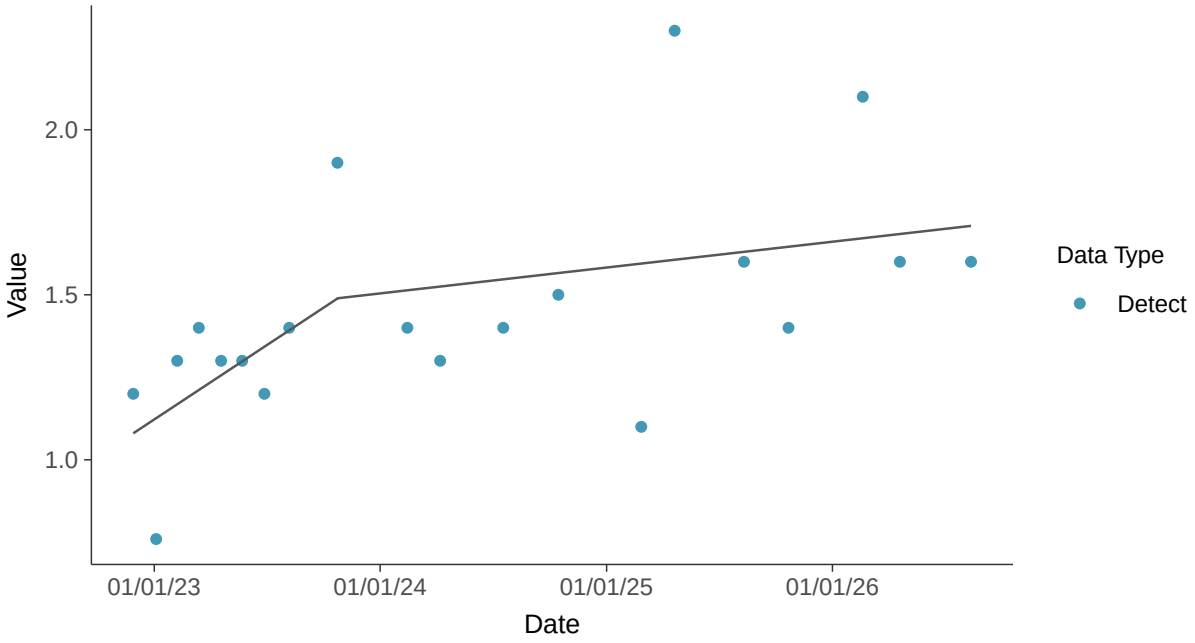
Trend Regression: Lognormal MLE

Fluoride (App IV), MW-04 (mg/L)



Trend Regression: Piecewise Linear-Linear

Fluoride (App IV), MW-04 (mg/L)

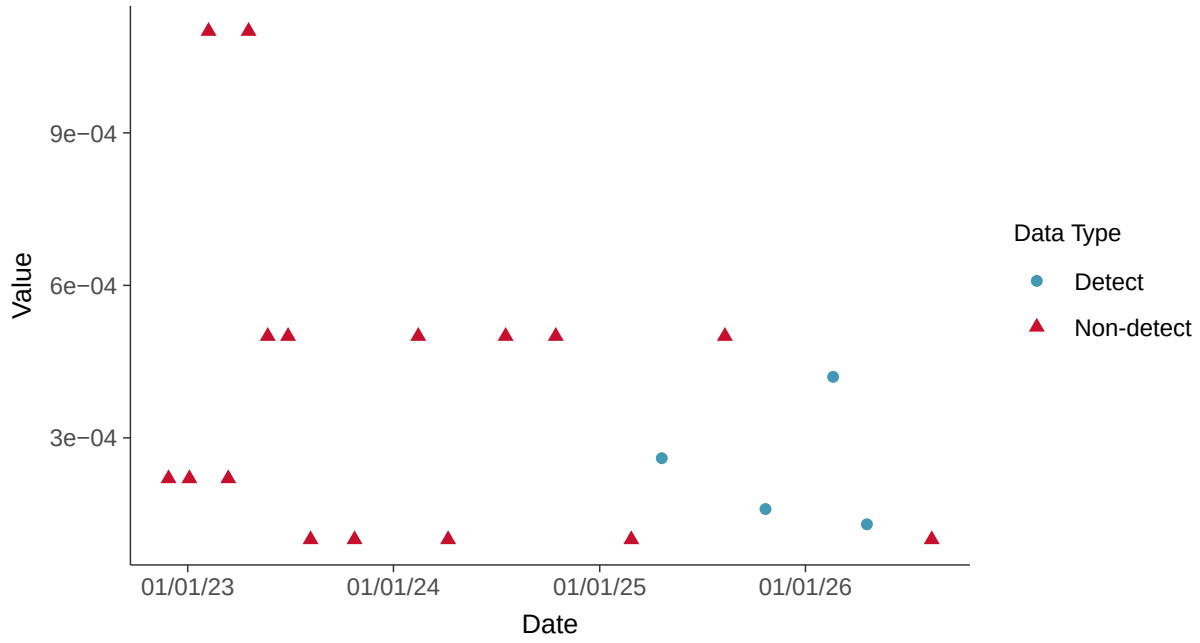


Appendix IV: Lead, MW-04

ID: 14_2_4_115

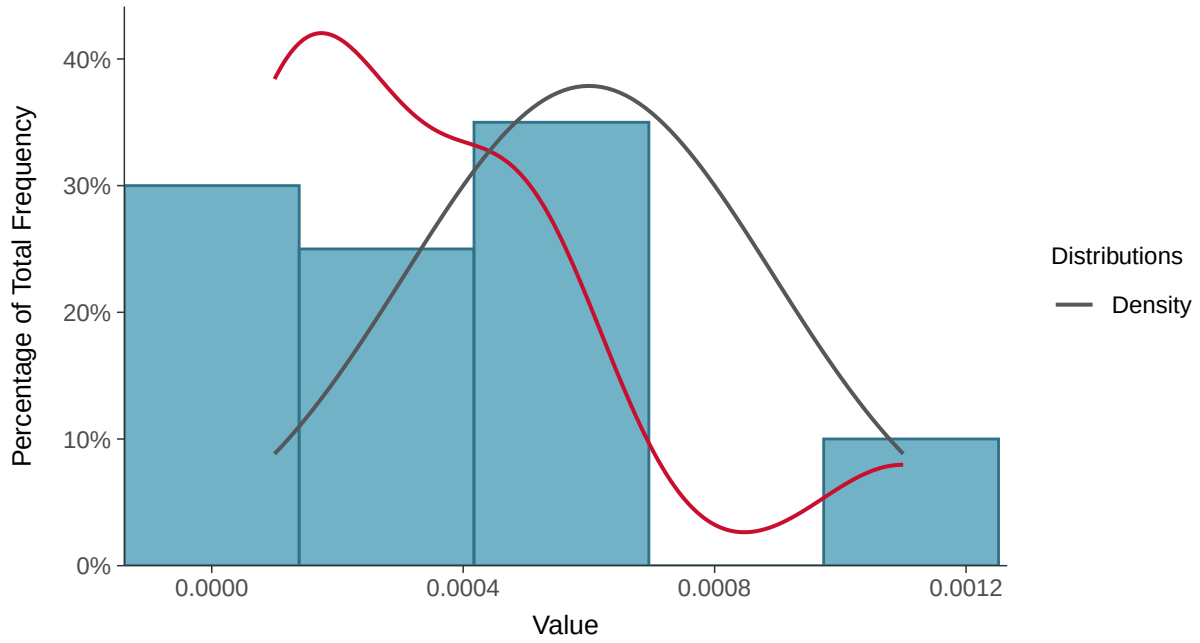
Scatter Plot

Lead, MW-04 (mg/L)



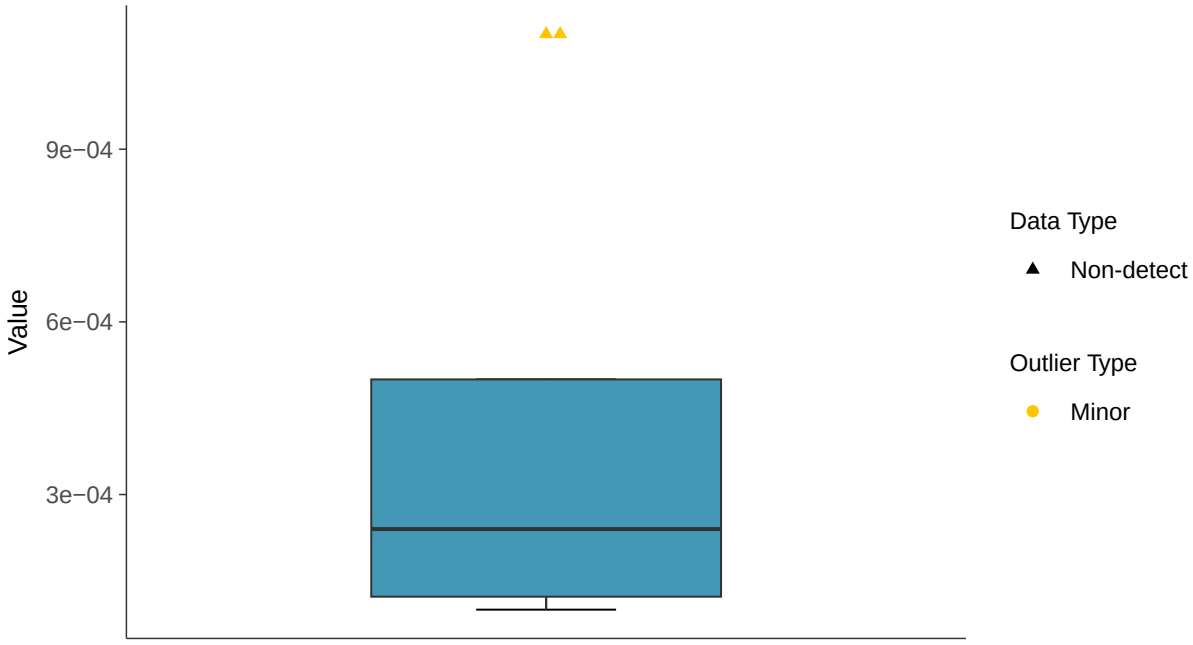
Histogram

Lead, MW-04 (mg/L)



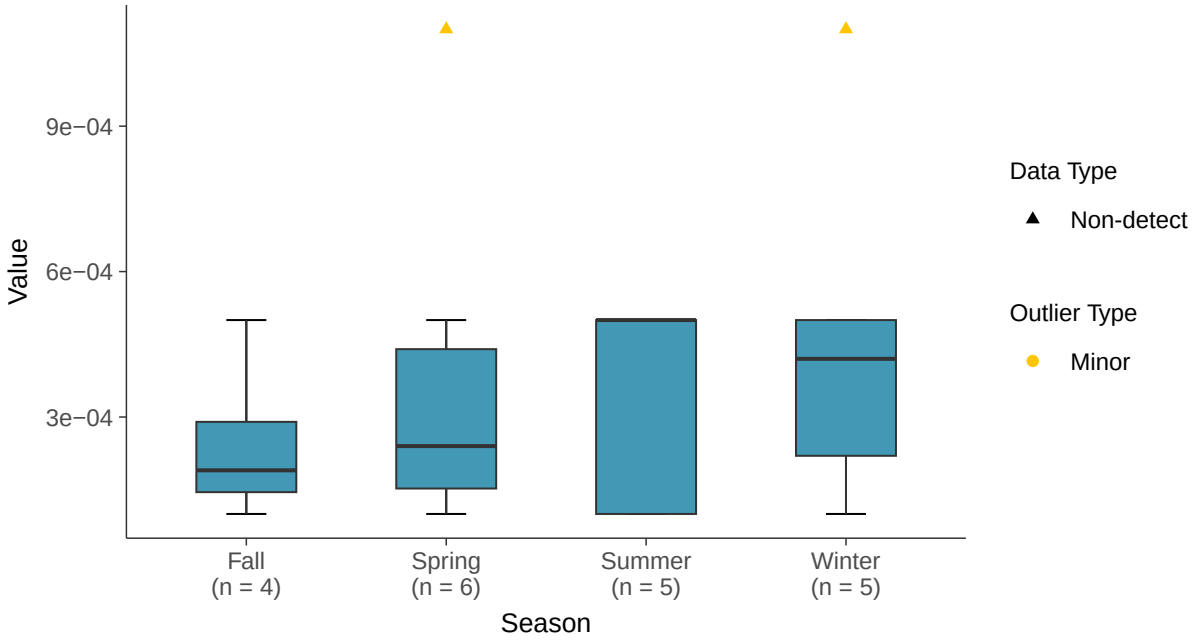
Boxplot

Lead, MW-04 (mg/L)



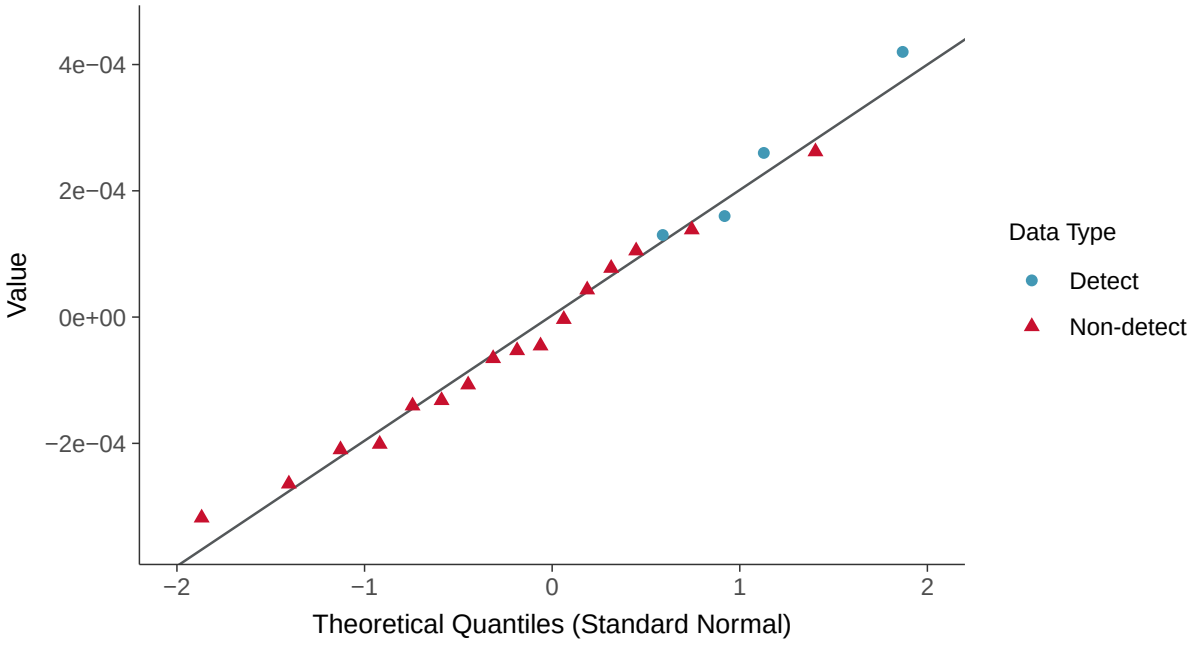
Boxplot by Season

Lead, MW-04 (mg/L)



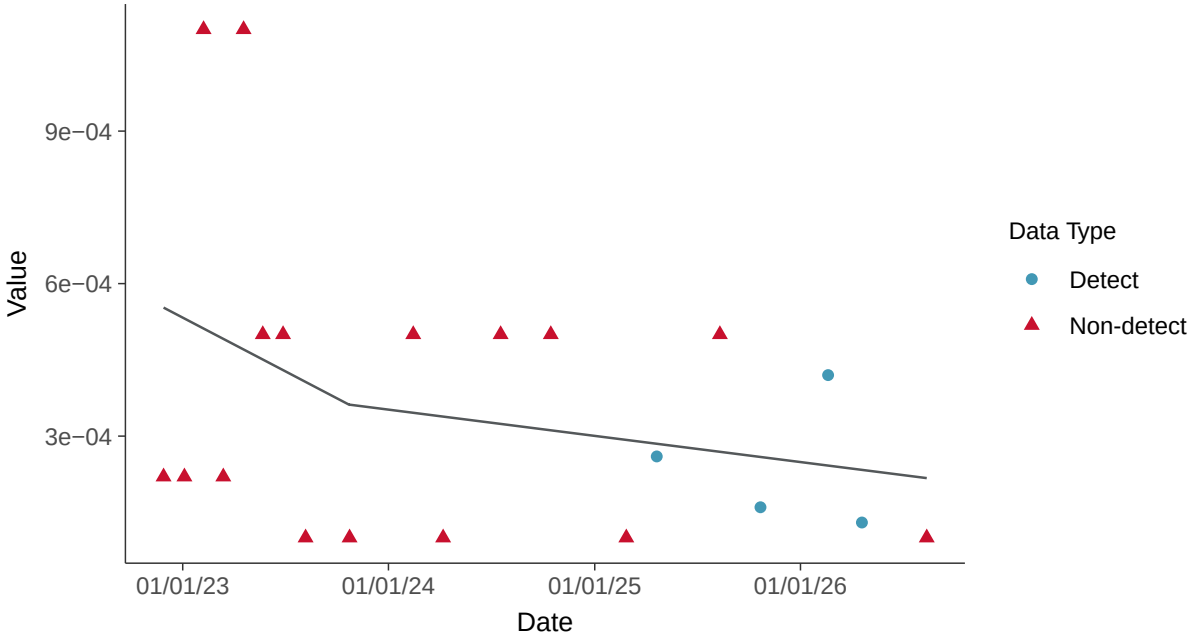
Normal Q-Q plot using ROS Imputed Estimates

Lead, MW-04 (mg/L)



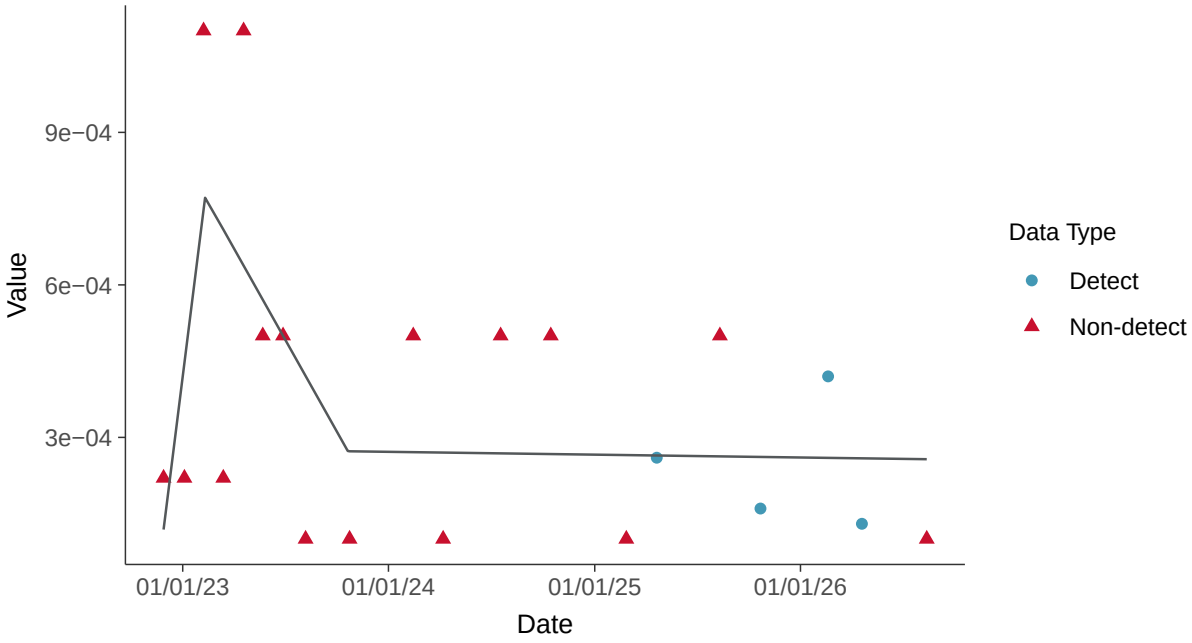
Trend Regression: Piecewise Linear-Linear

Lead, MW-04 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Lead, MW-04 (mg/L)

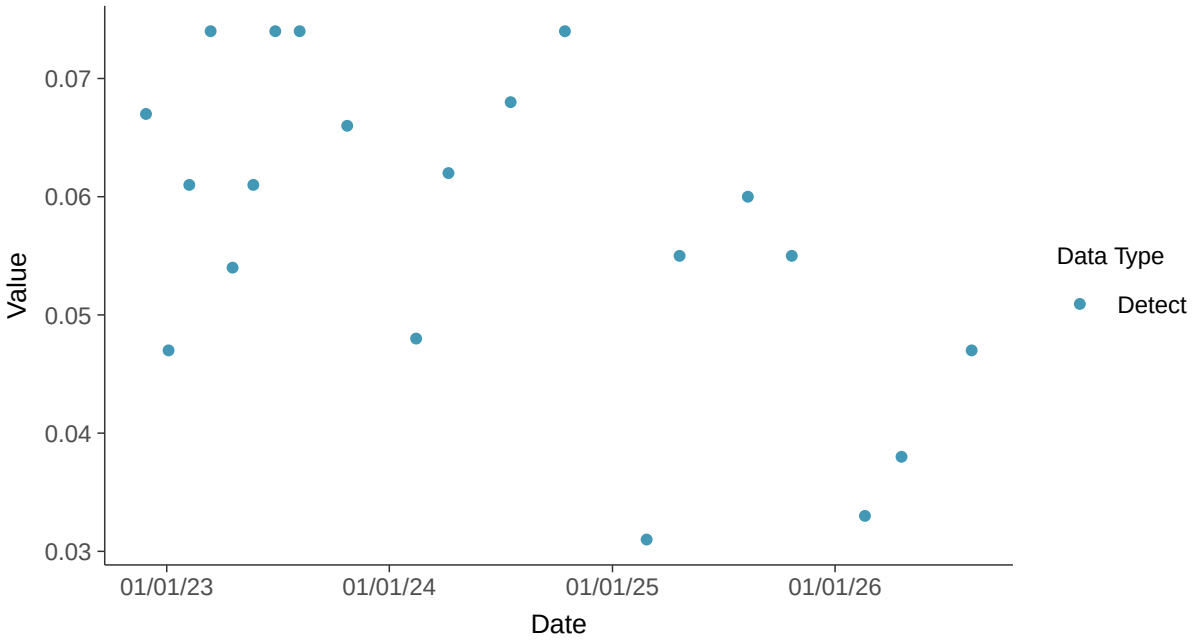


Appendix IV: Lithium, MW-04

ID: 14_2_4_116

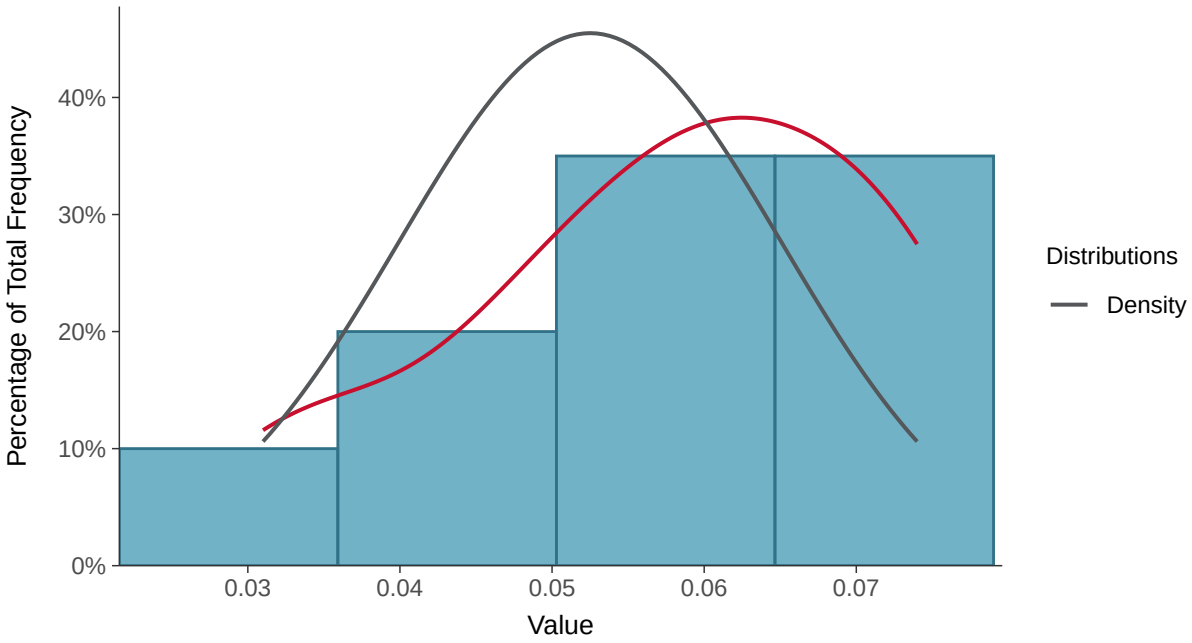
Scatter Plot

Lithium, MW-04 (mg/L)



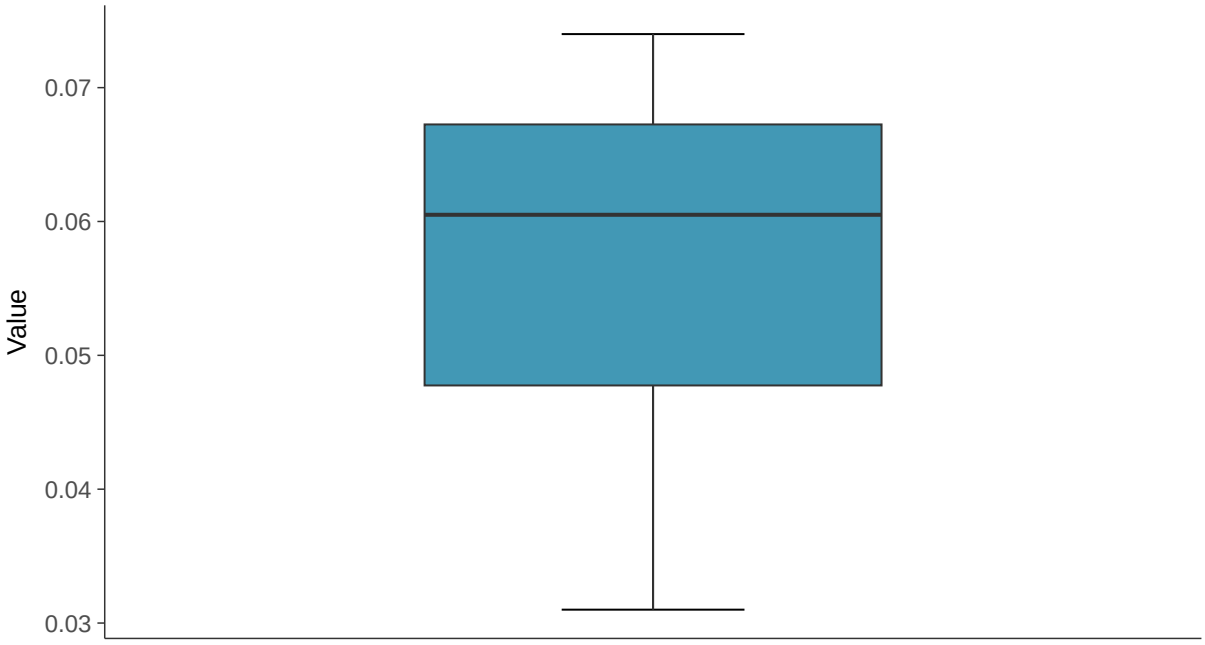
Histogram

Lithium, MW-04 (mg/L)



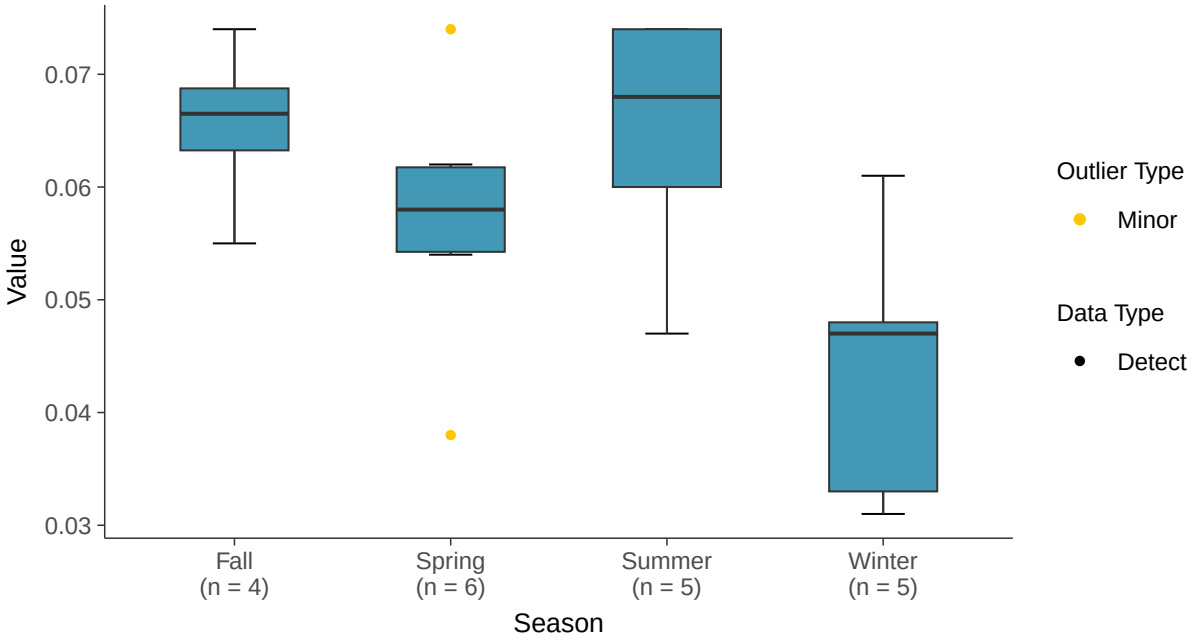
Boxplot

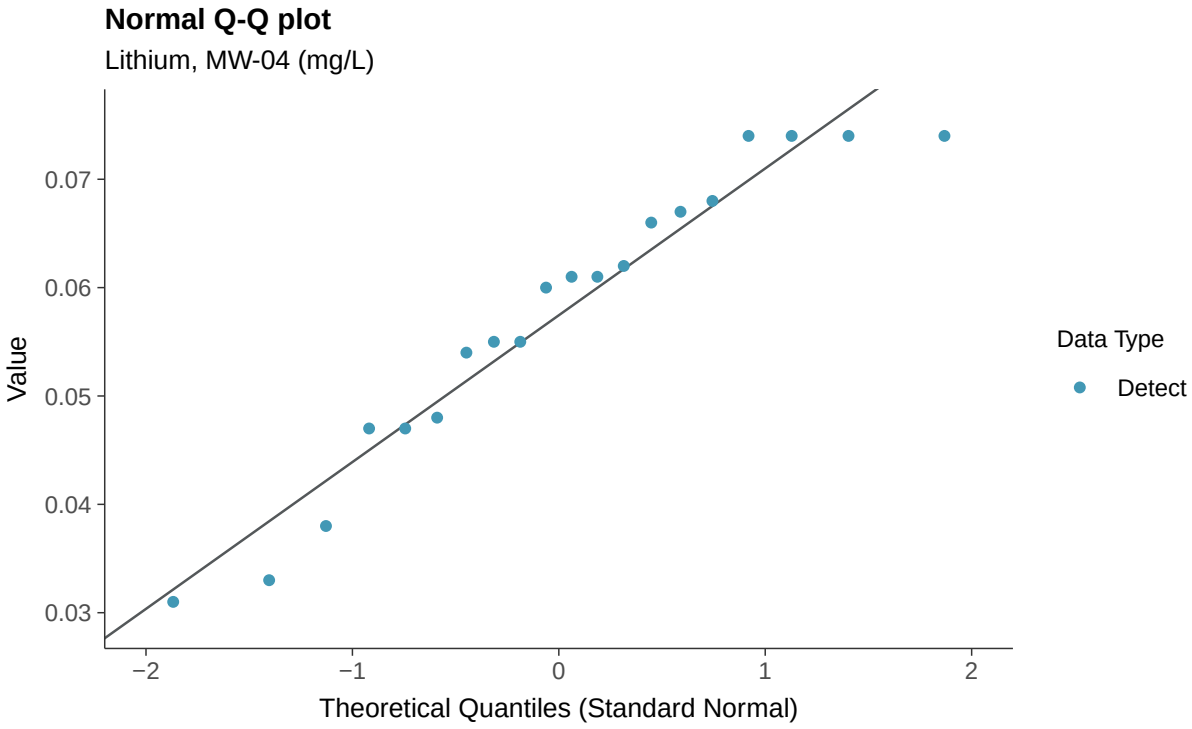
Lithium, MW-04 (mg/L)

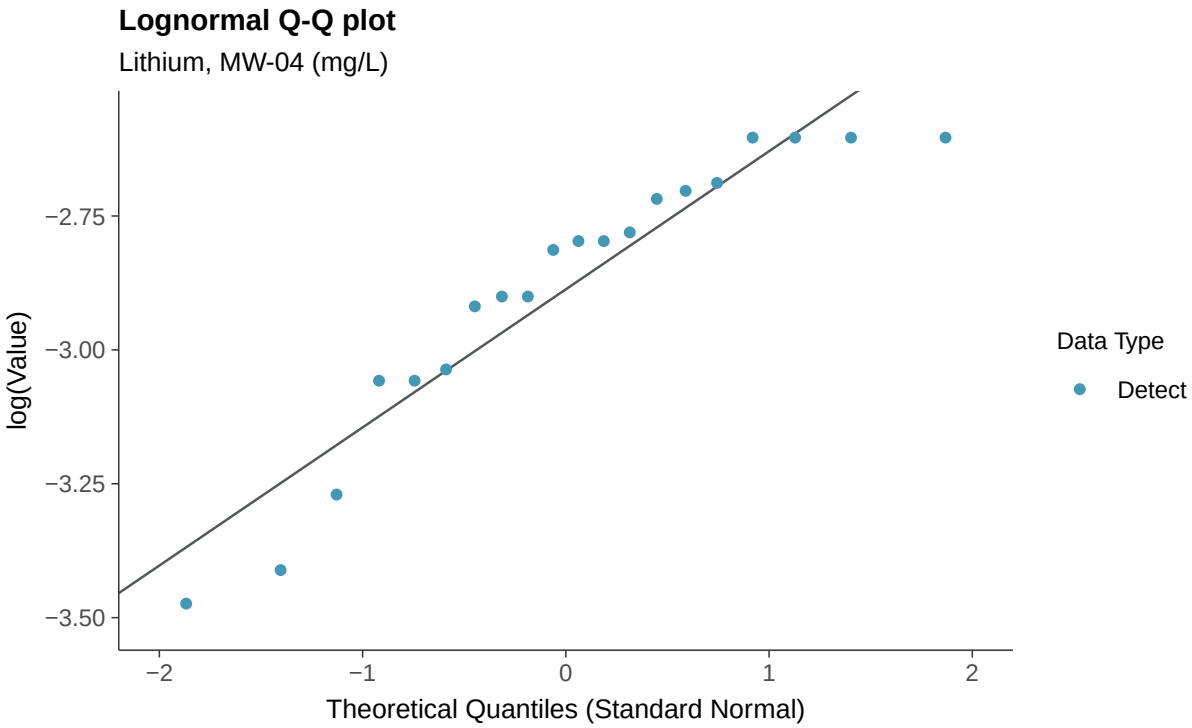


Boxplot by Season

Lithium, MW-04 (mg/L)

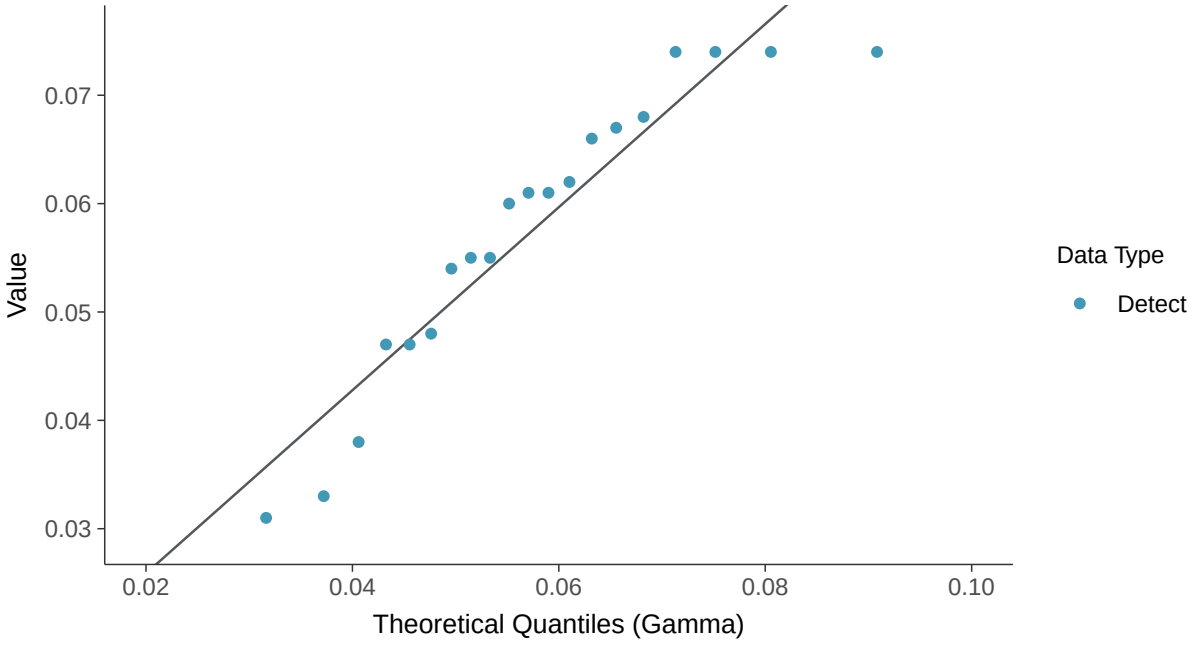



Normal Q-Q plot
Lithium, MW-04 (mg/L)
Value
0.07
0.06
0.05
0.04
0.03
−2
−1
0
1
2
Theoretical Quantiles (Standard Normal)
Data Type
Detect


Lognormal Q-Q plot
Lithium, MW-04 (mg/L)
log(Value)
−2.75
−3.00
−3.25
−3.50
−2
−1
0
1
2
Theoretical Quantiles (Standard Normal)
Data Type
Detect

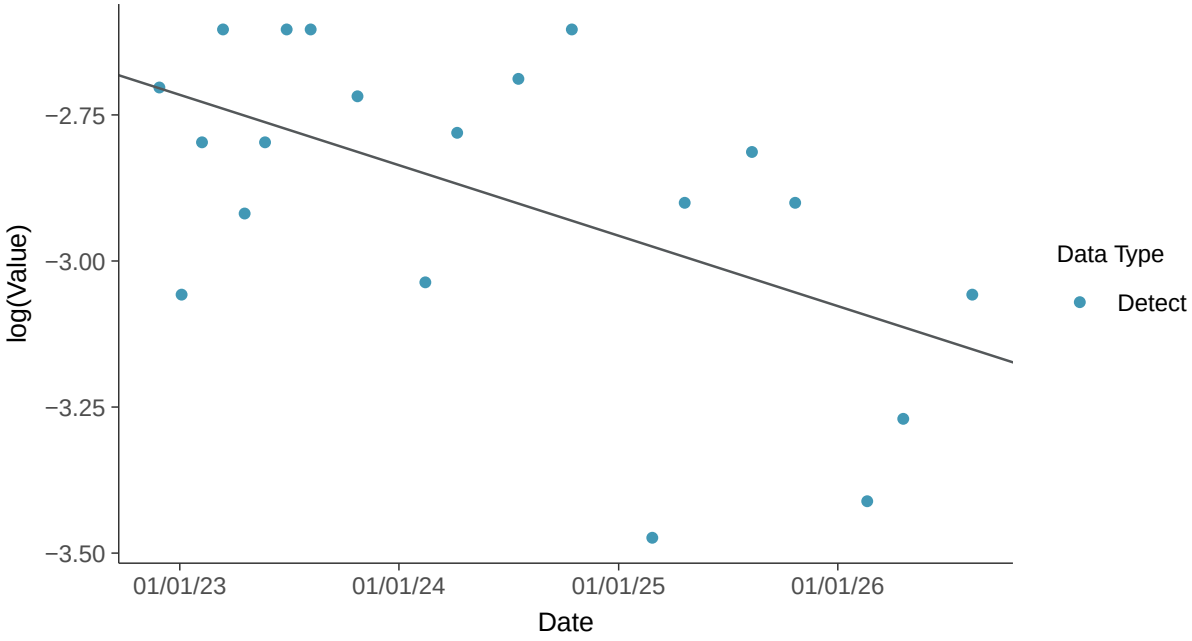
Gamma Q-Q plot

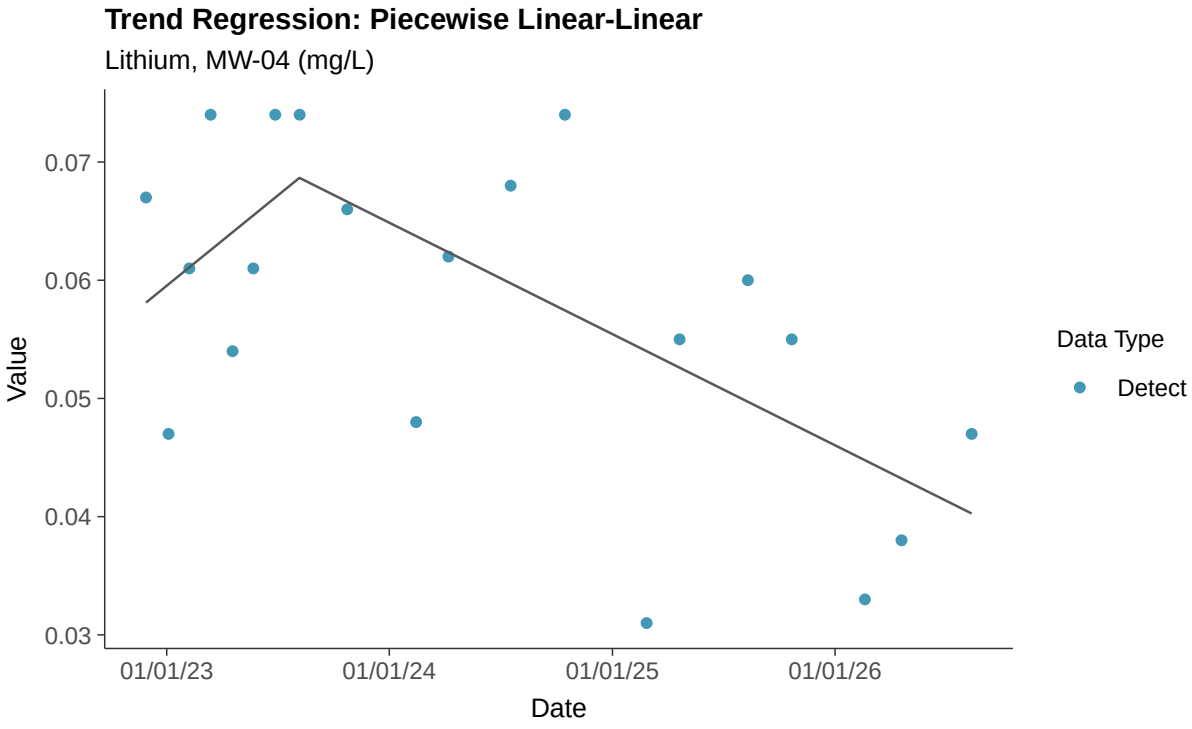
Lithium, MW-04 (mg/L)



Trend Regression: Lognormal MLE

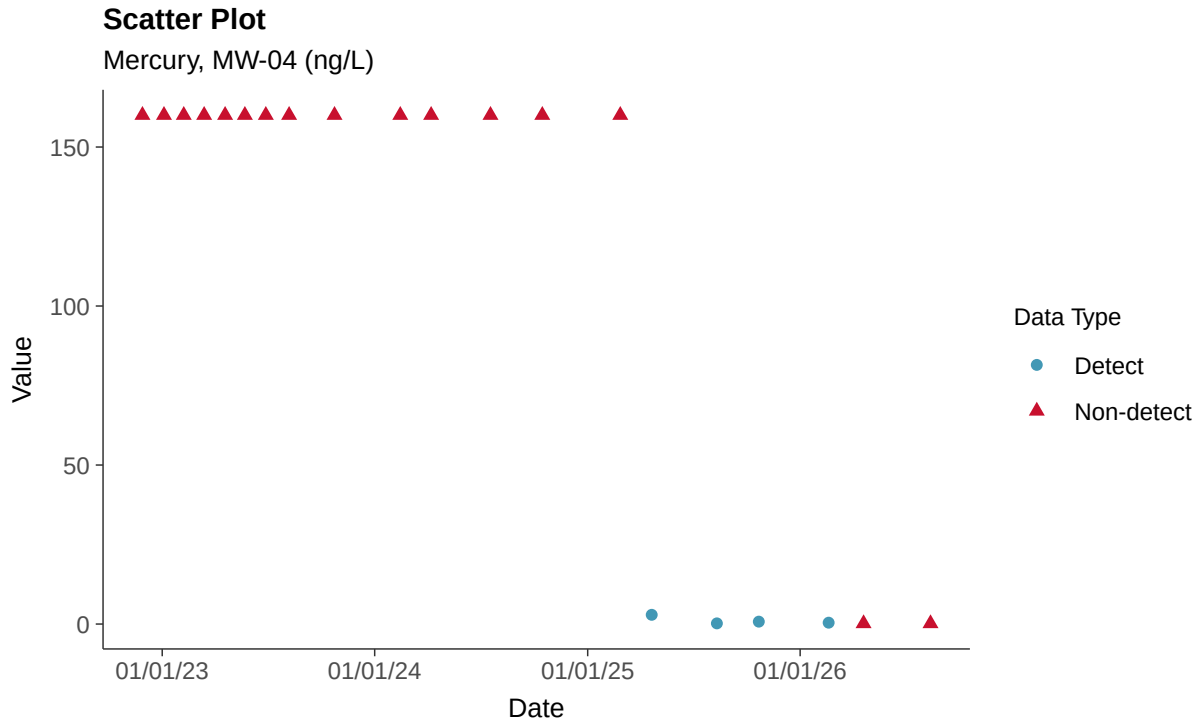
Lithium, MW-04 (mg/L)

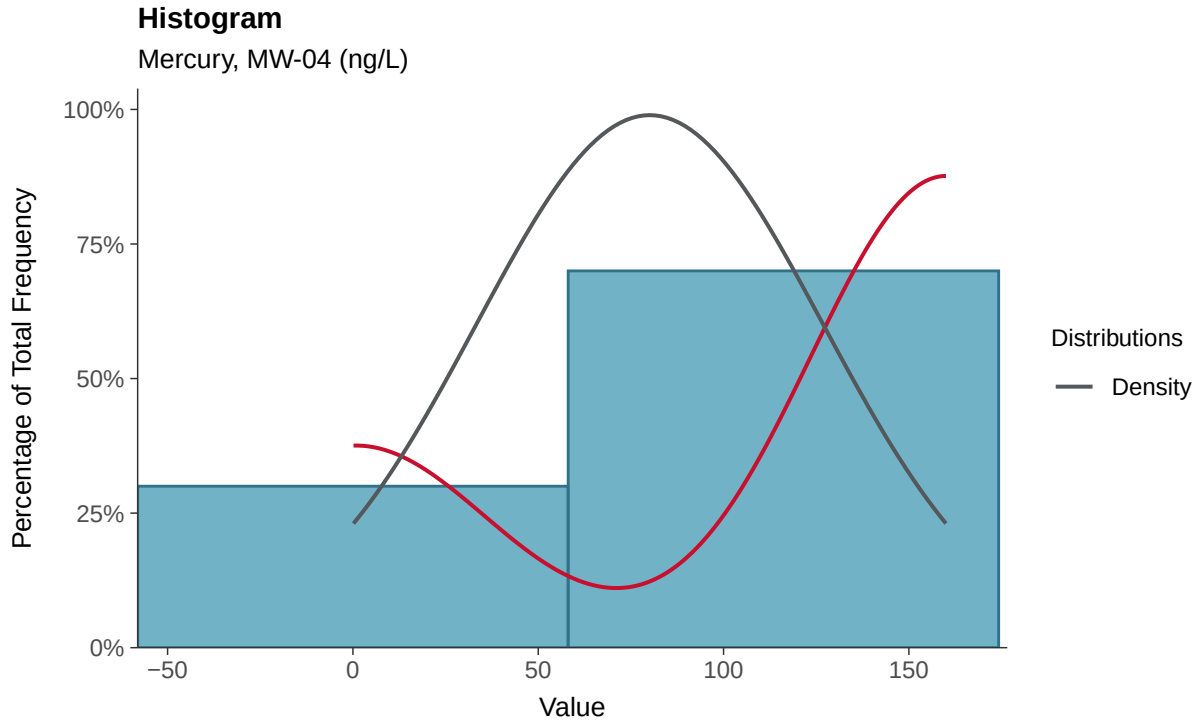



Trend Regression: Piecewise Linear-Linear
Lithium, MW-04 (mg/L)
Value
0.07
0.06
0.05
0.04
0.03
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect

Appendix IV: Mercury, MW-04

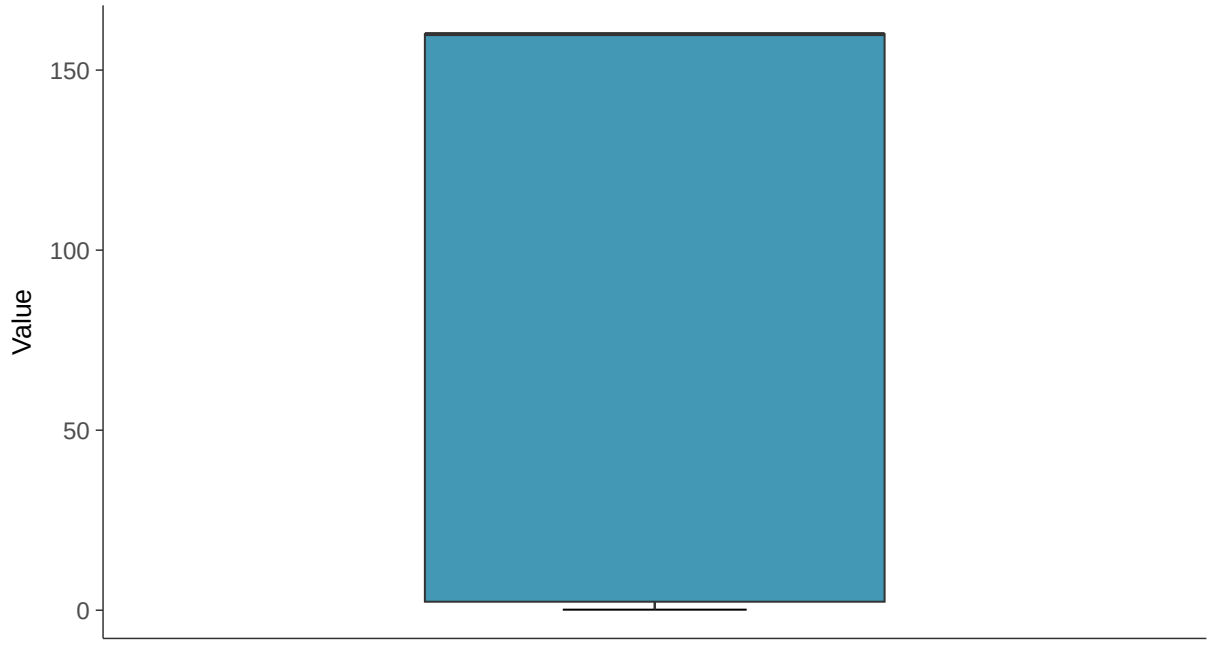
ID: 14_2_4_117





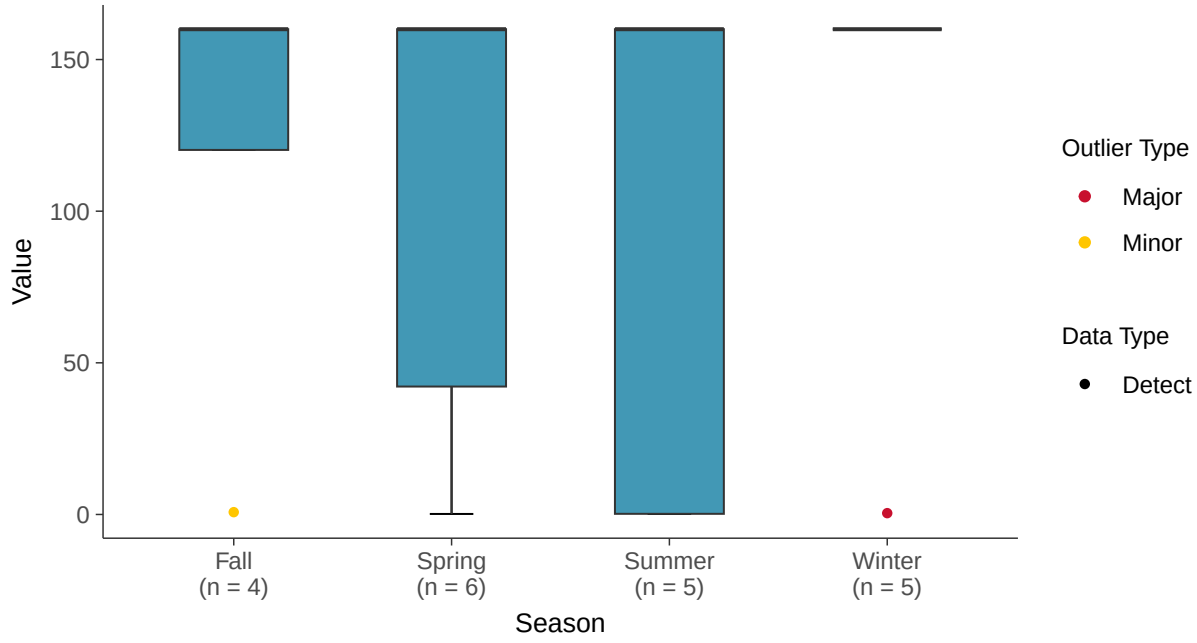
Boxplot

Mercury, MW-04 (ng/L)



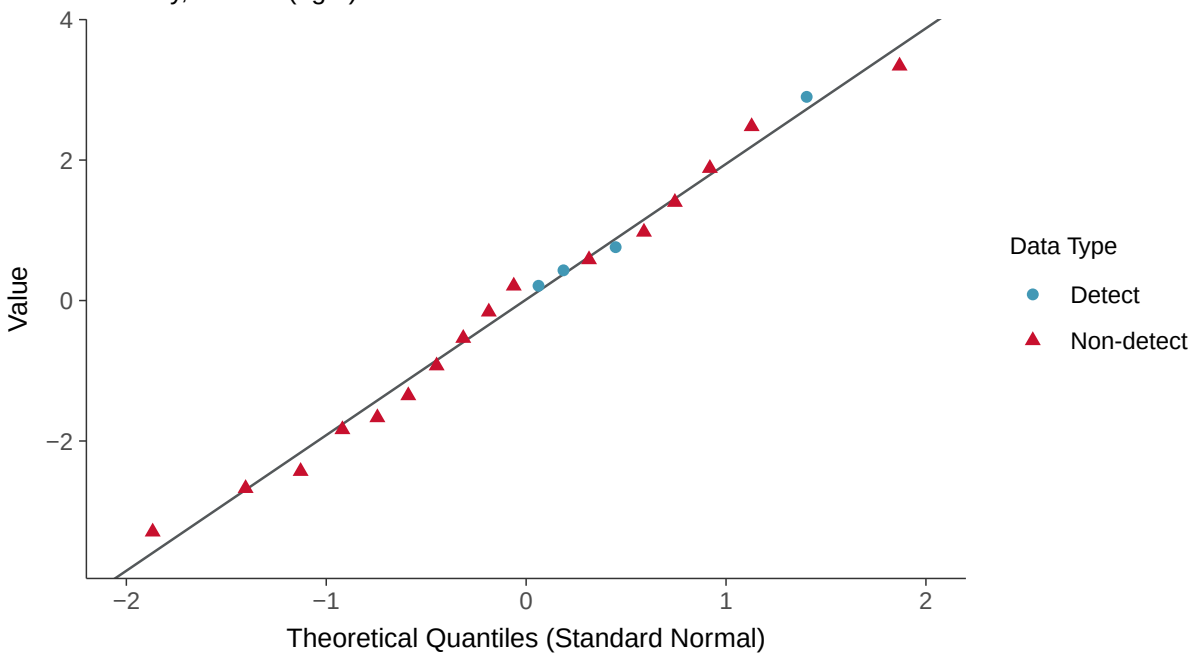
Boxplot by Season

Mercury, MW-04 (ng/L)



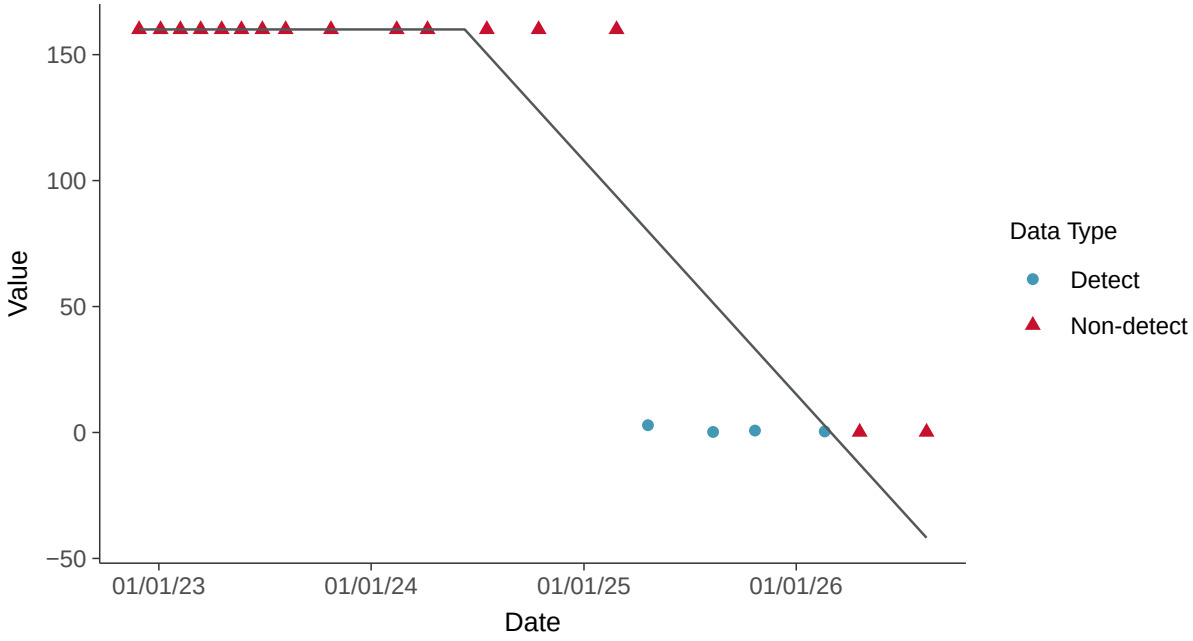
Normal Q-Q plot using ROS Imputed Estimates

Mercury, MW-04 (ng/L)



Trend Regression: Piecewise Linear-Linear

Mercury, MW-04 (ng/L)

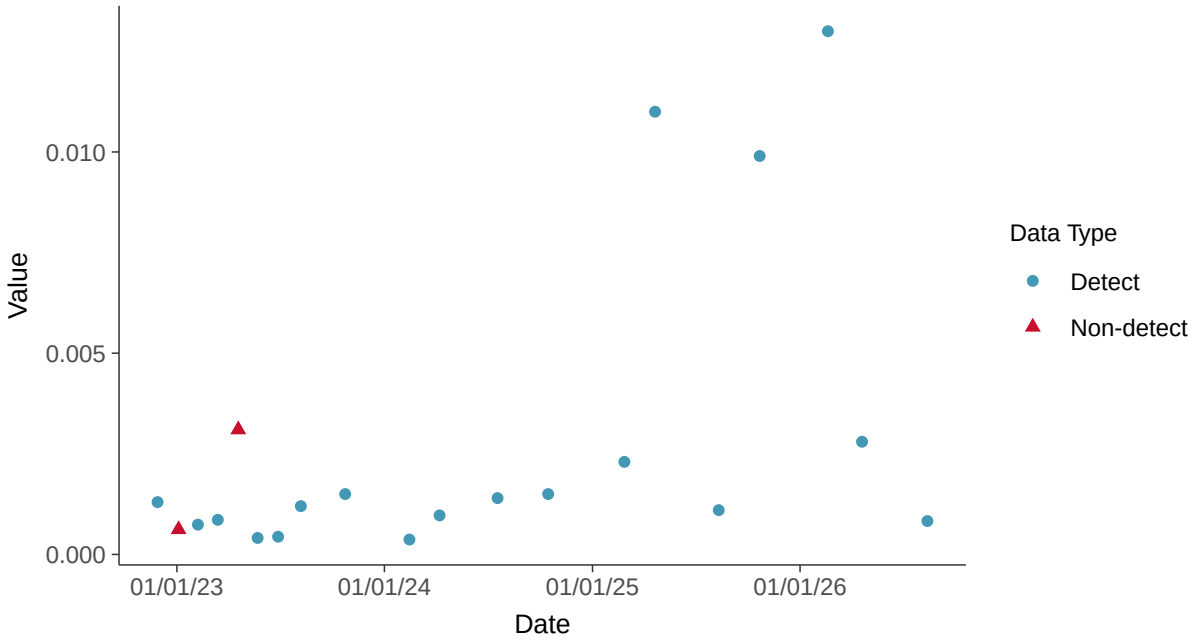


Appendix IV: Molybdenum, MW-04

ID: 14_2_4_118

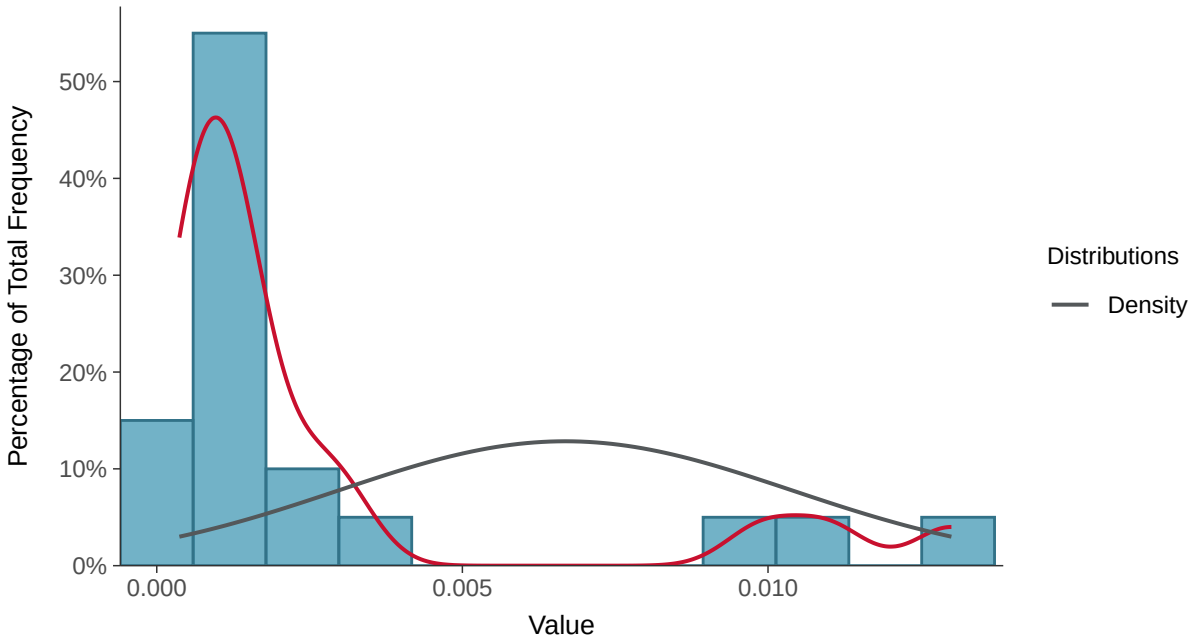
Scatter Plot

Molybdenum, MW-04 (mg/L)



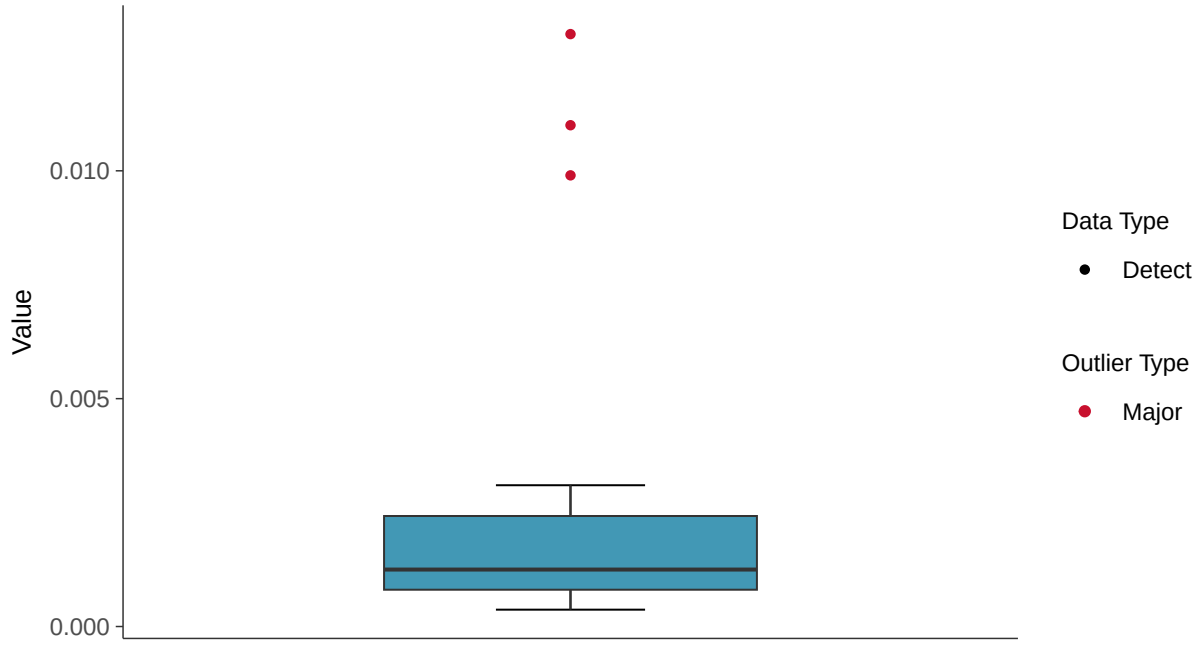
Histogram

Molybdenum, MW-04 (mg/L)



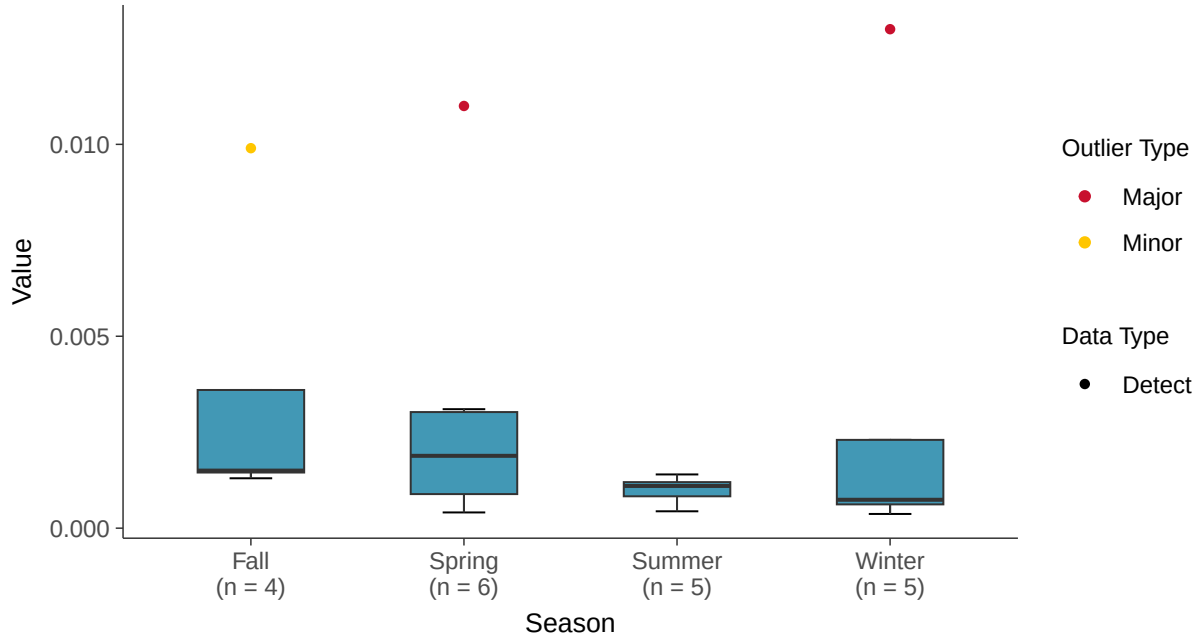
Boxplot

Molybdenum, MW-04 (mg/L)



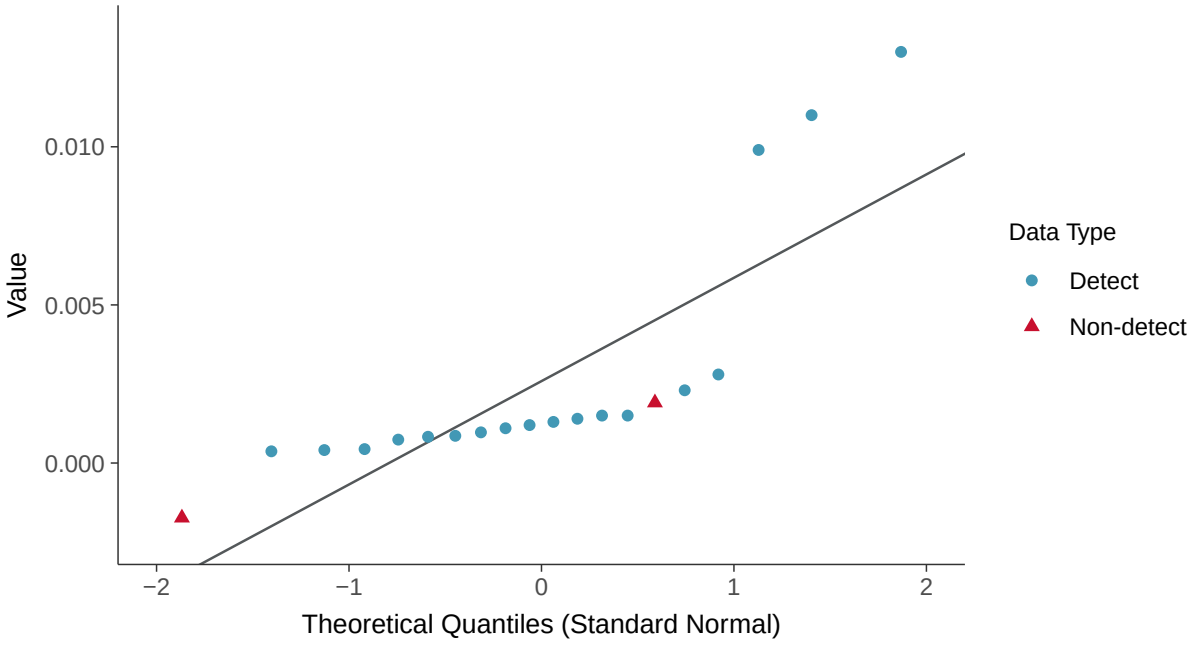
Boxplot by Season

Molybdenum, MW-04 (mg/L)



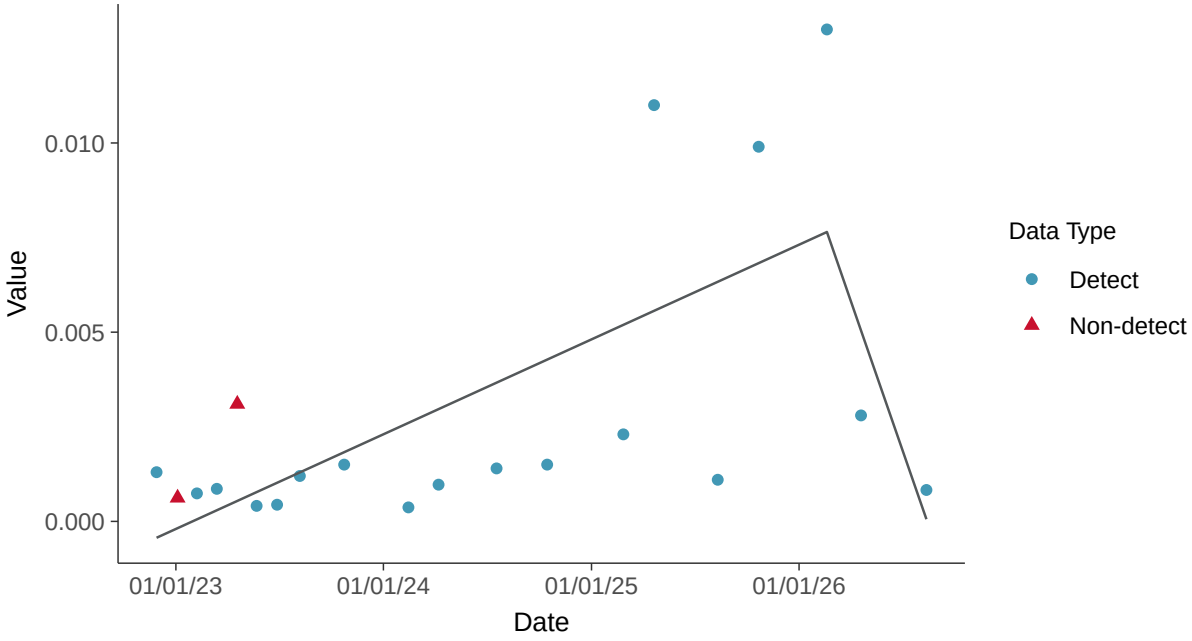
Normal Q-Q plot using ROS Imputed Estimates

Molybdenum, MW-04 (mg/L)



Trend Regression: Piecewise Linear-Linear

Molybdenum, MW-04 (mg/L)

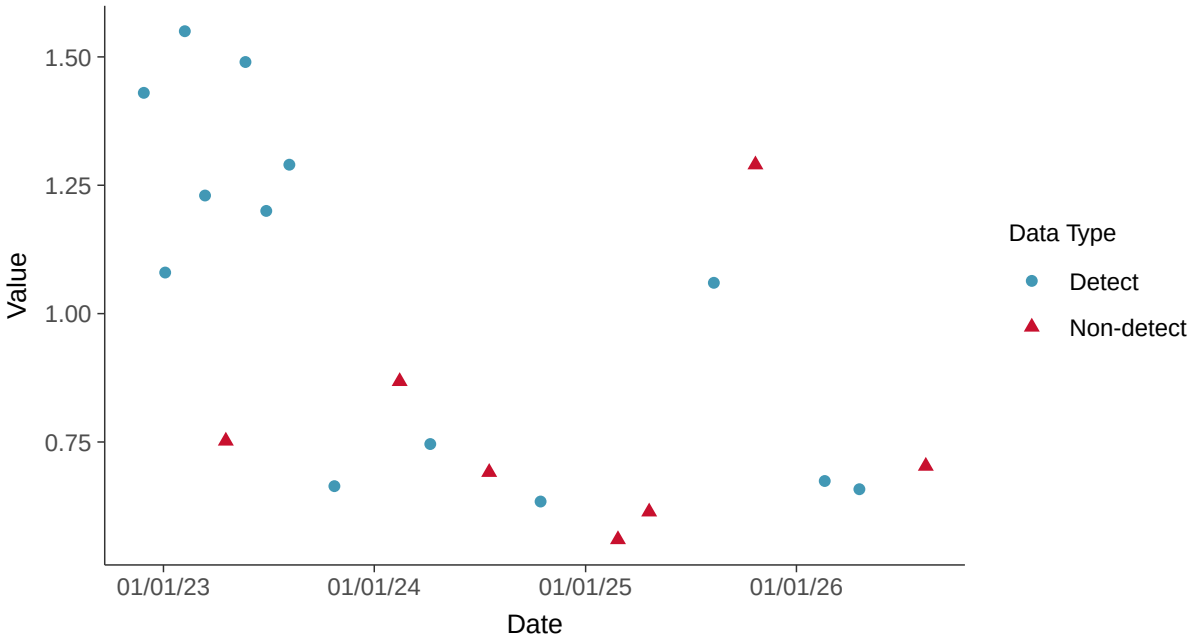


Appendix IV: Radium 226 and 228, MW-04

ID: 14_2_4_121

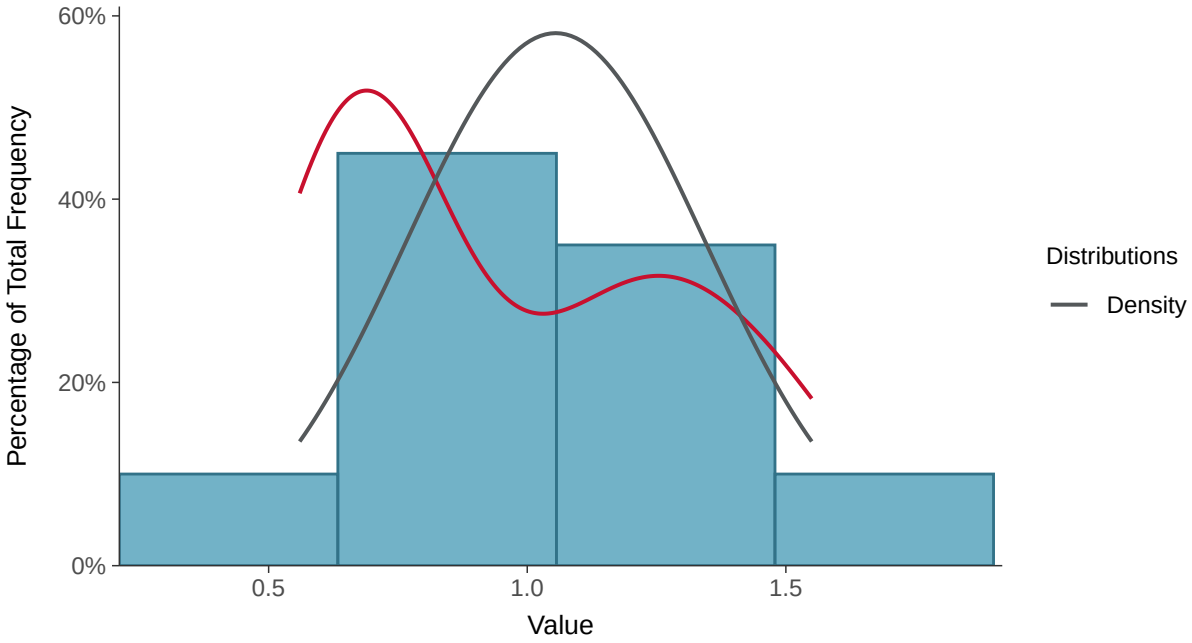
Scatter Plot

Radium 226 and 228, MW-04 (pCi/L)



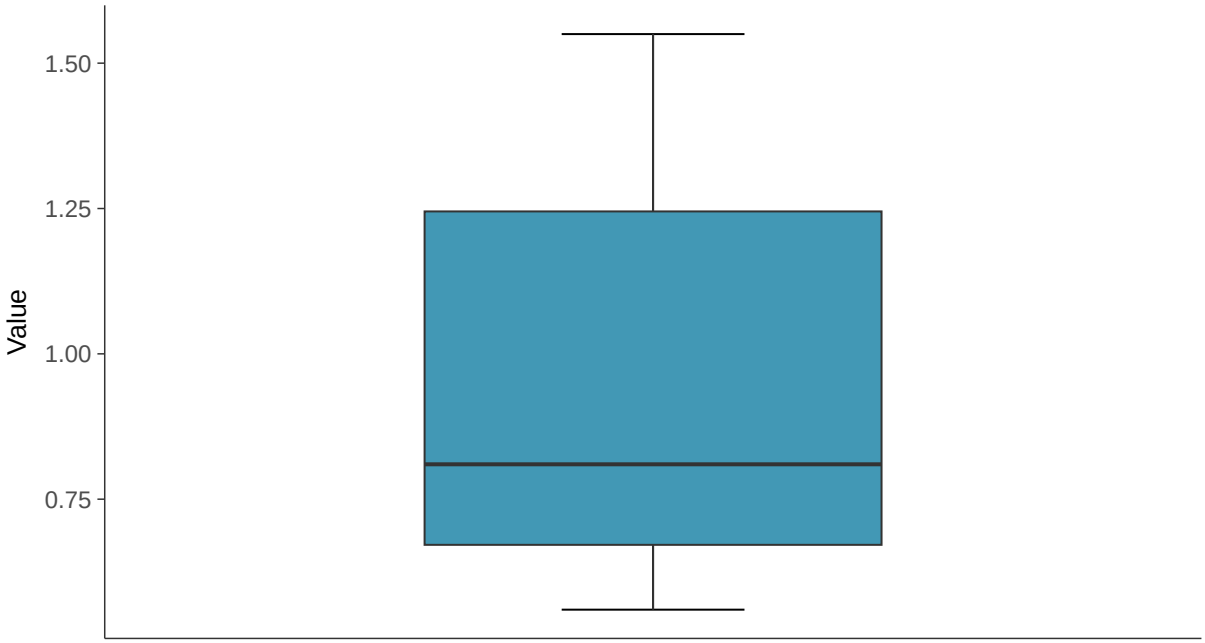
Histogram

Radium 226 and 228, MW-04 (pCi/L)



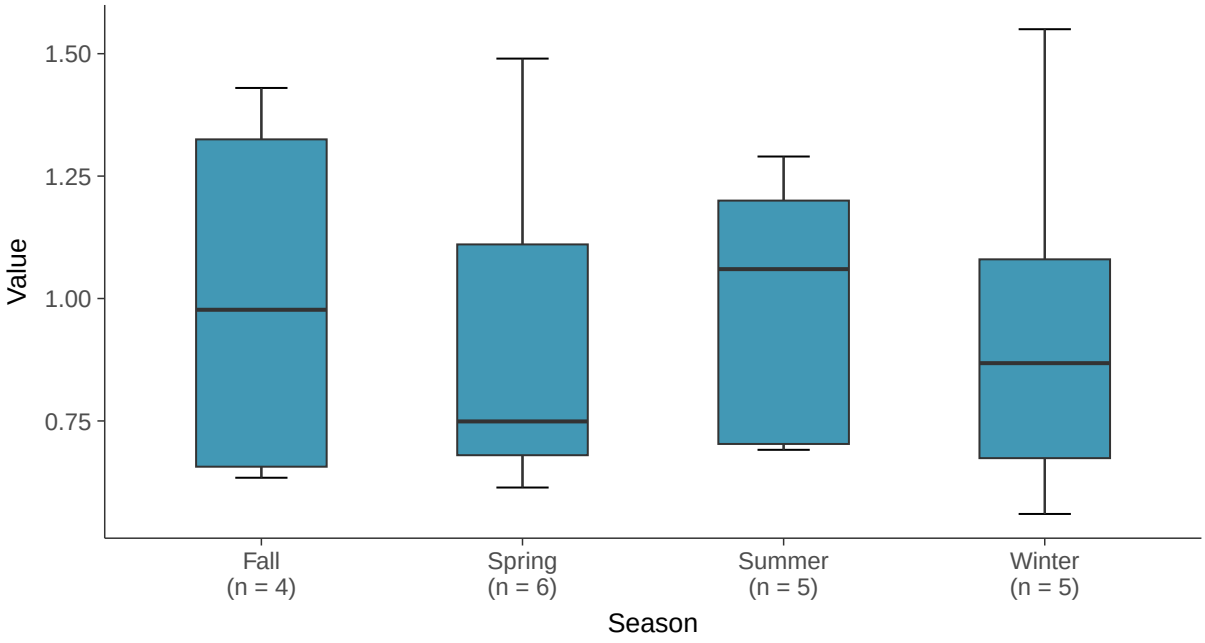
Boxplot

Radium 226 and 228, MW-04 (pCi/L)



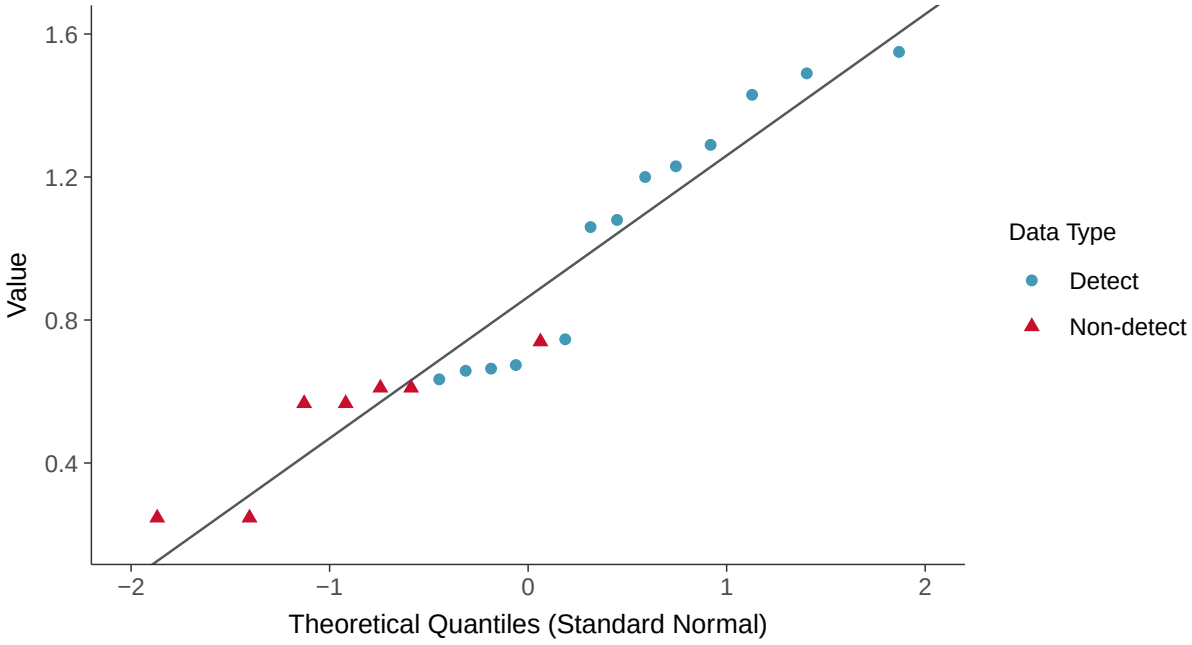
Boxplot by Season

Radium 226 and 228, MW-04 (pCi/L)



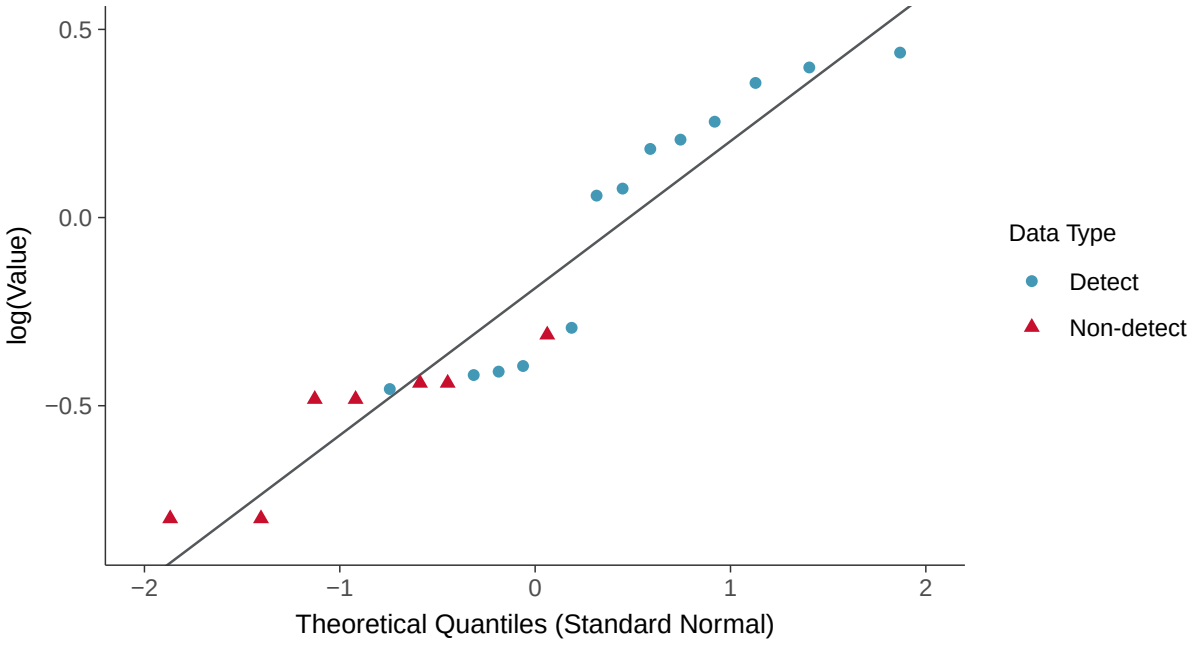
Normal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-04 (pCi/L)



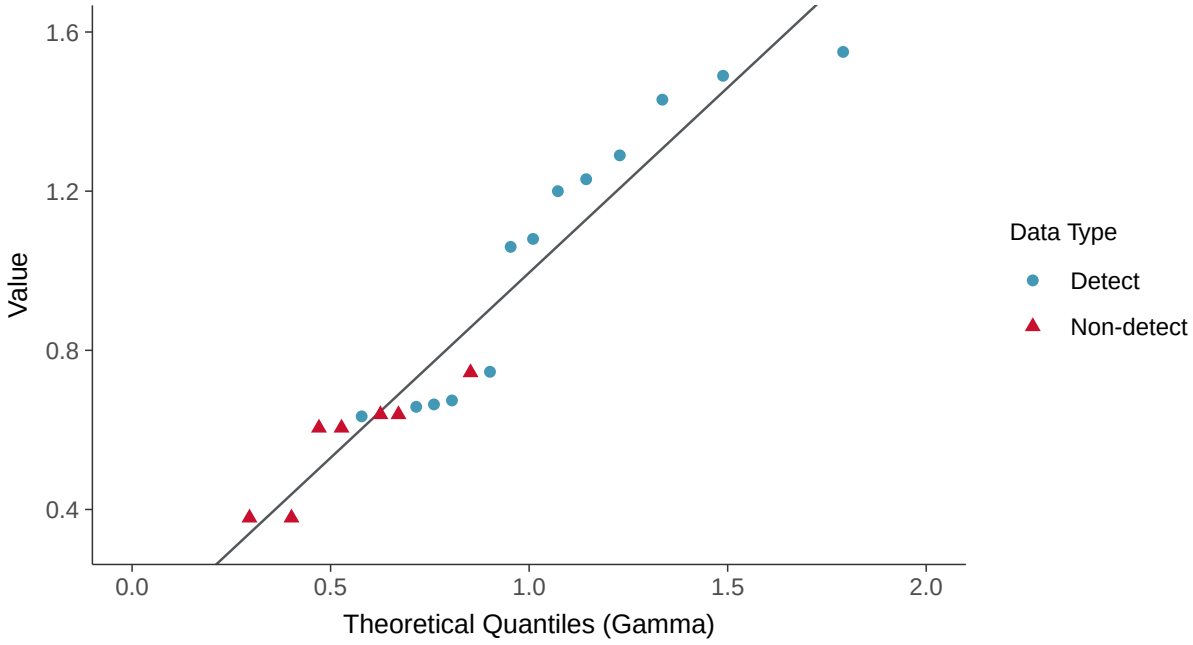
Lognormal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-04 (pCi/L)



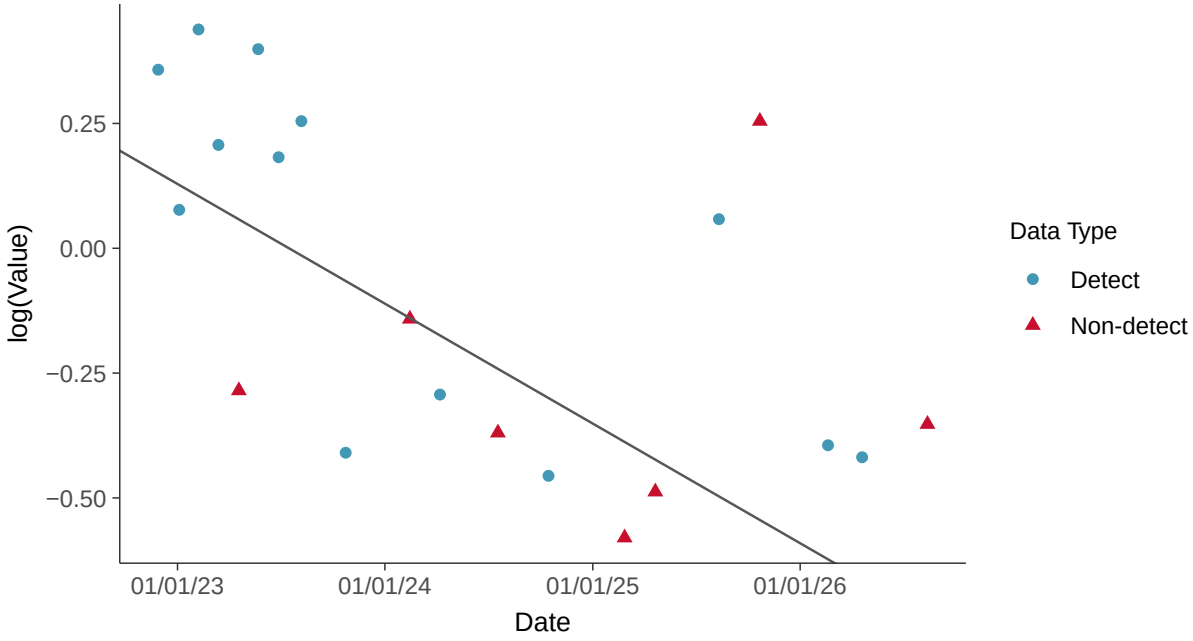
Gamma Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-04 (pCi/L)



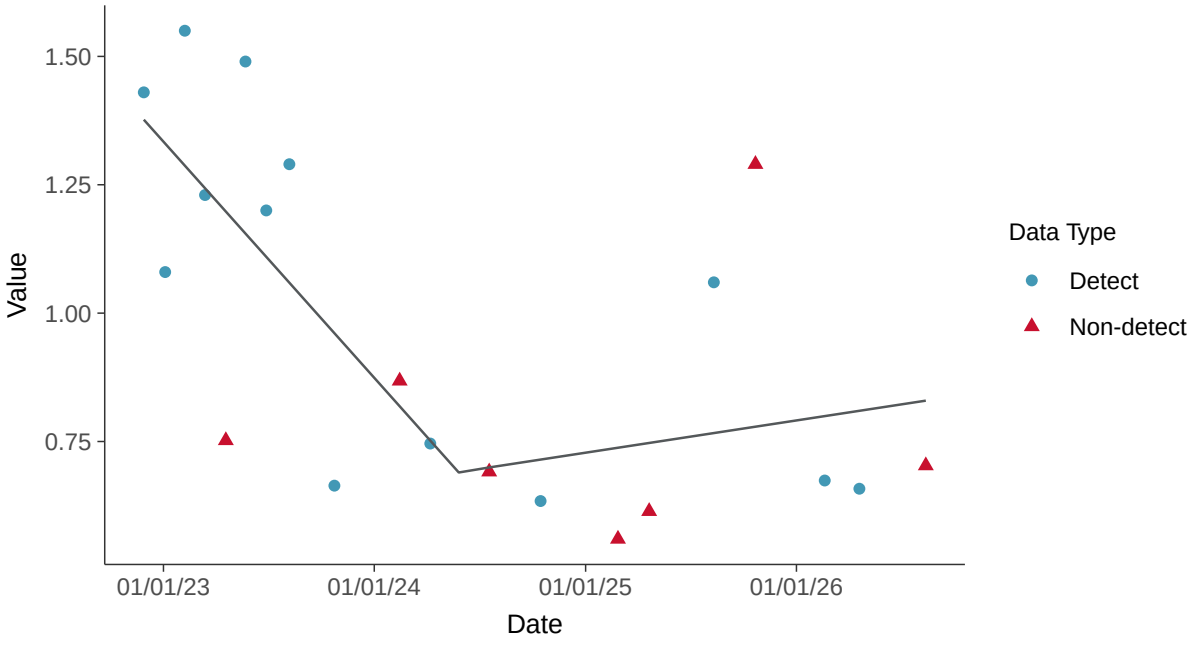
Trend Regression: Lognormal MLE

Radium 226 and 228, MW-04 (pCi/L)



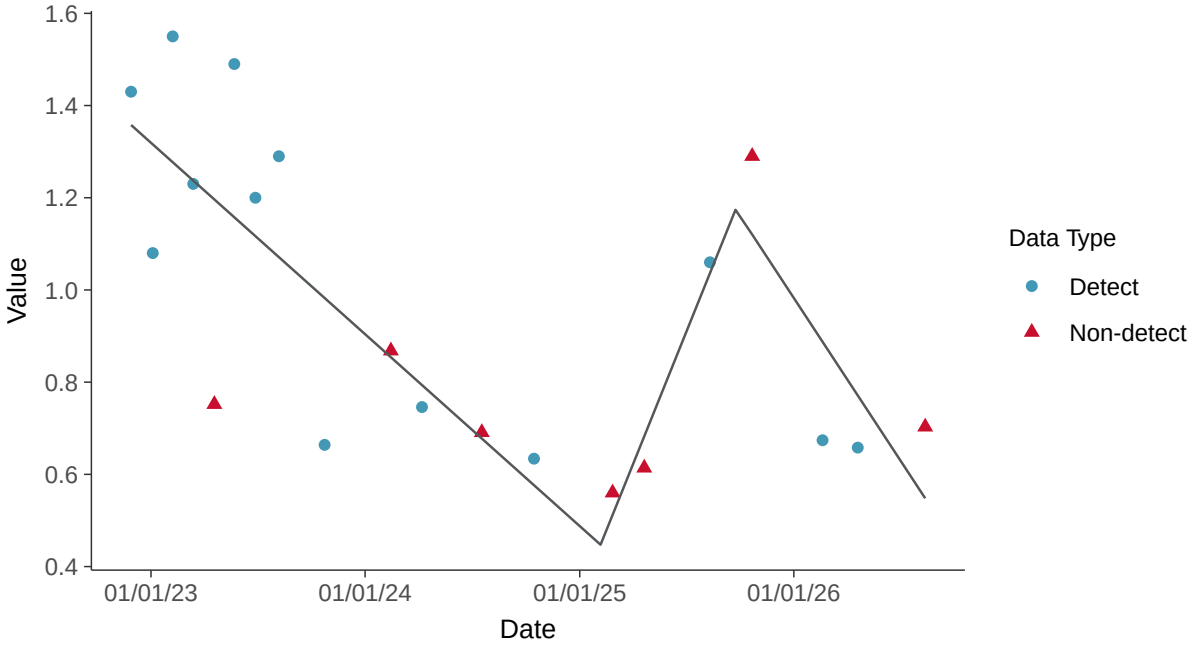
Trend Regression: Piecewise Linear-Linear

Radium 226 and 228, MW-04 (pCi/L)



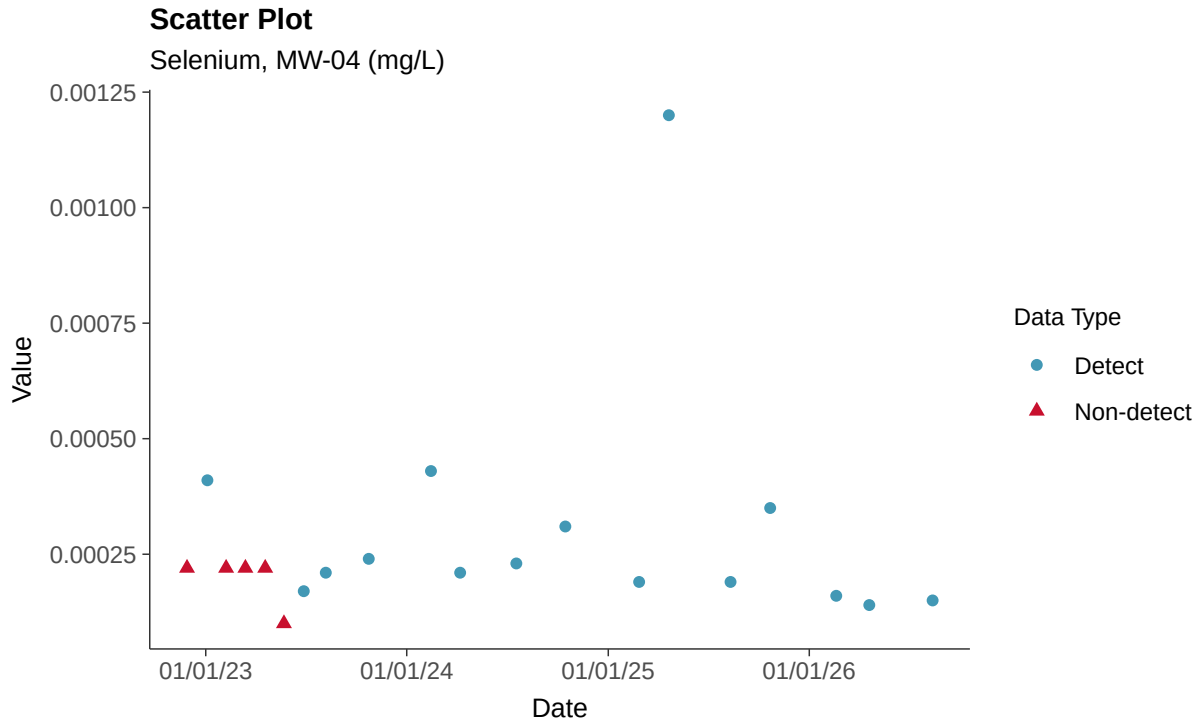
Trend Regression: Piecewise Linear-Linear-Linear

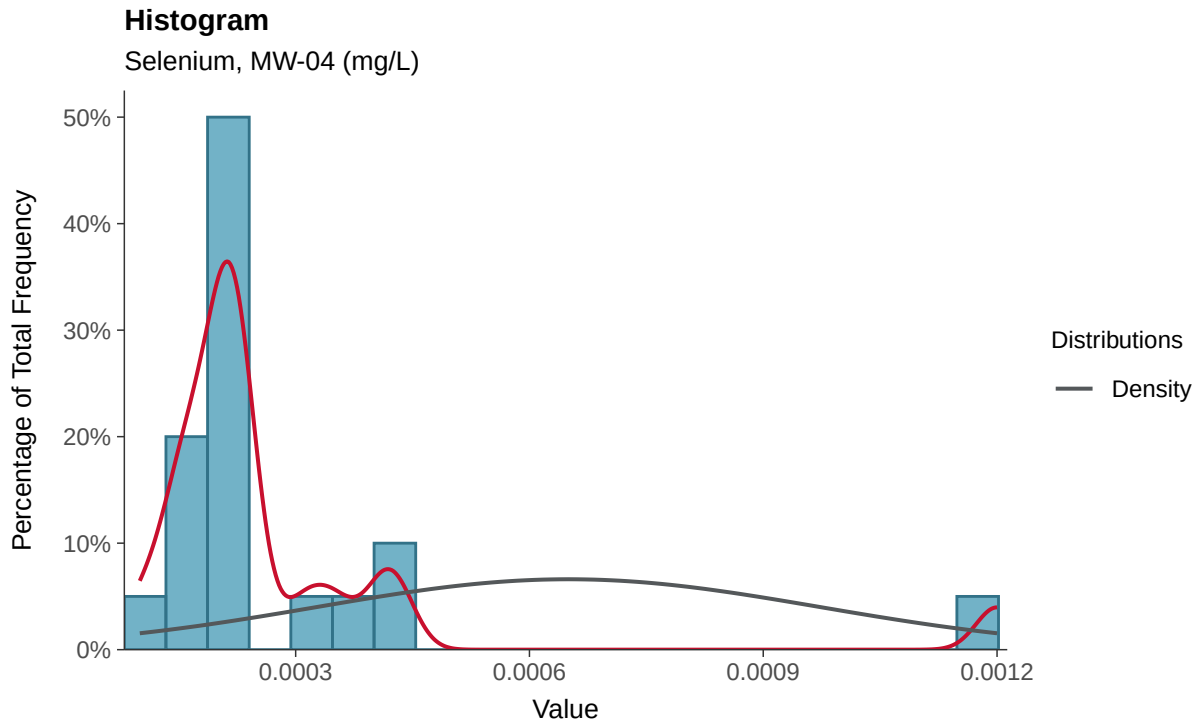
Radium 226 and 228, MW-04 (pCi/L)



Appendix IV: Selenium, MW-04

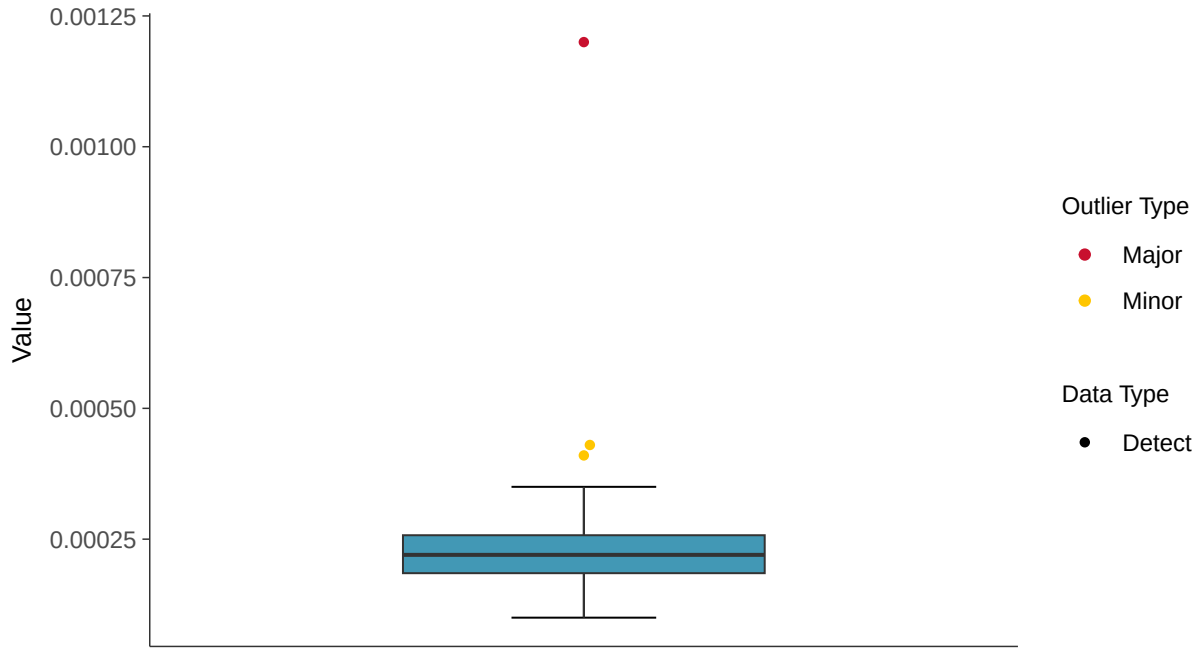
ID: 14_2_4_122





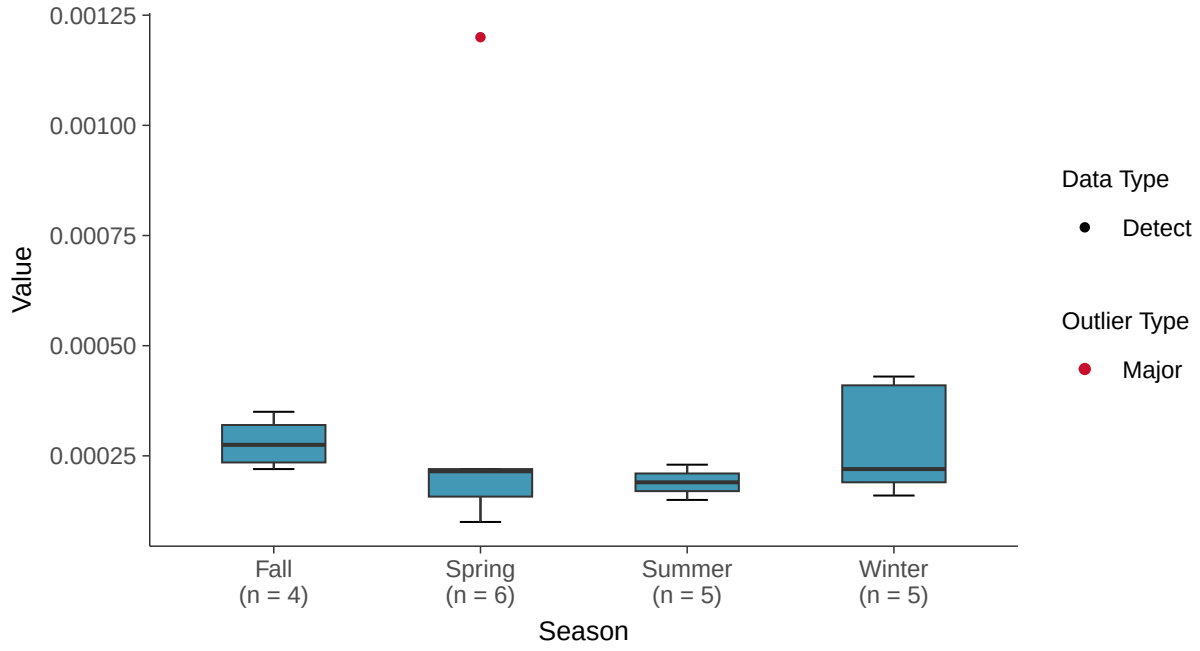
Boxplot

Selenium, MW-04 (mg/L)



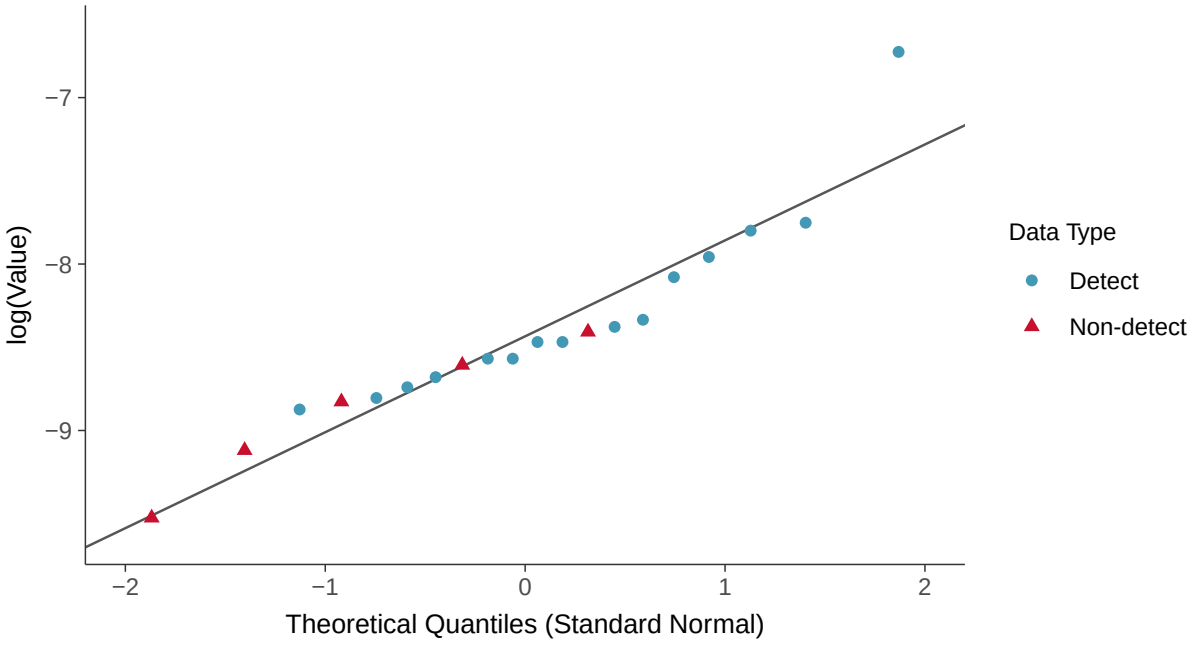
Boxplot by Season

Selenium, MW-04 (mg/L)



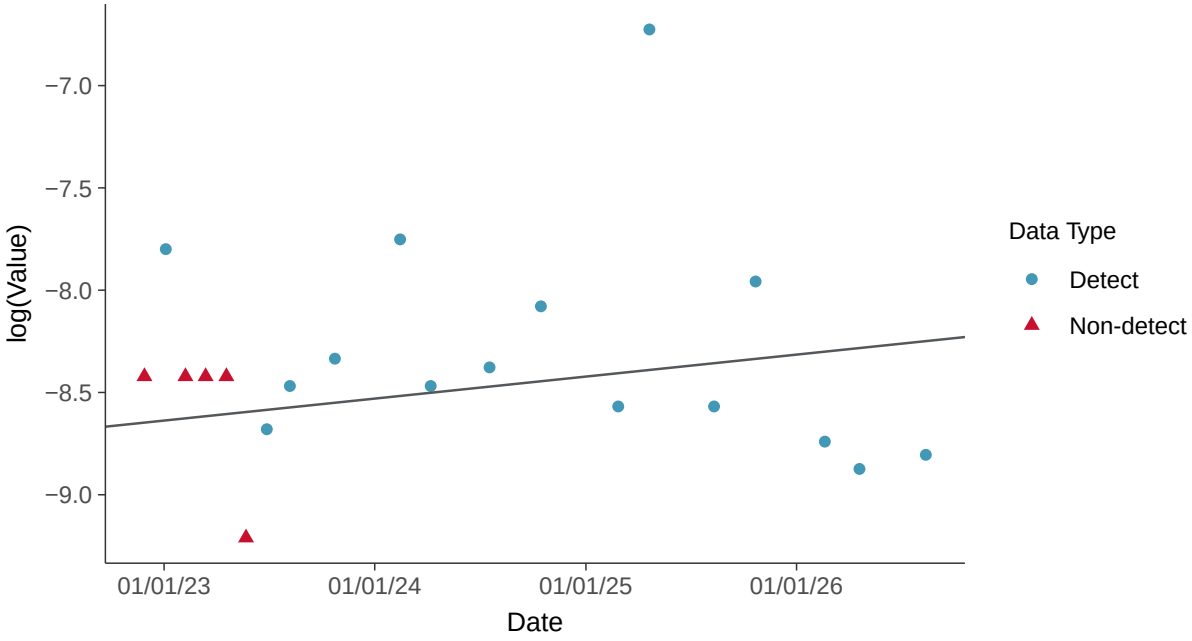
Lognormal Q-Q plot using ROS Imputed Estimates

Selenium, MW-04 (mg/L)



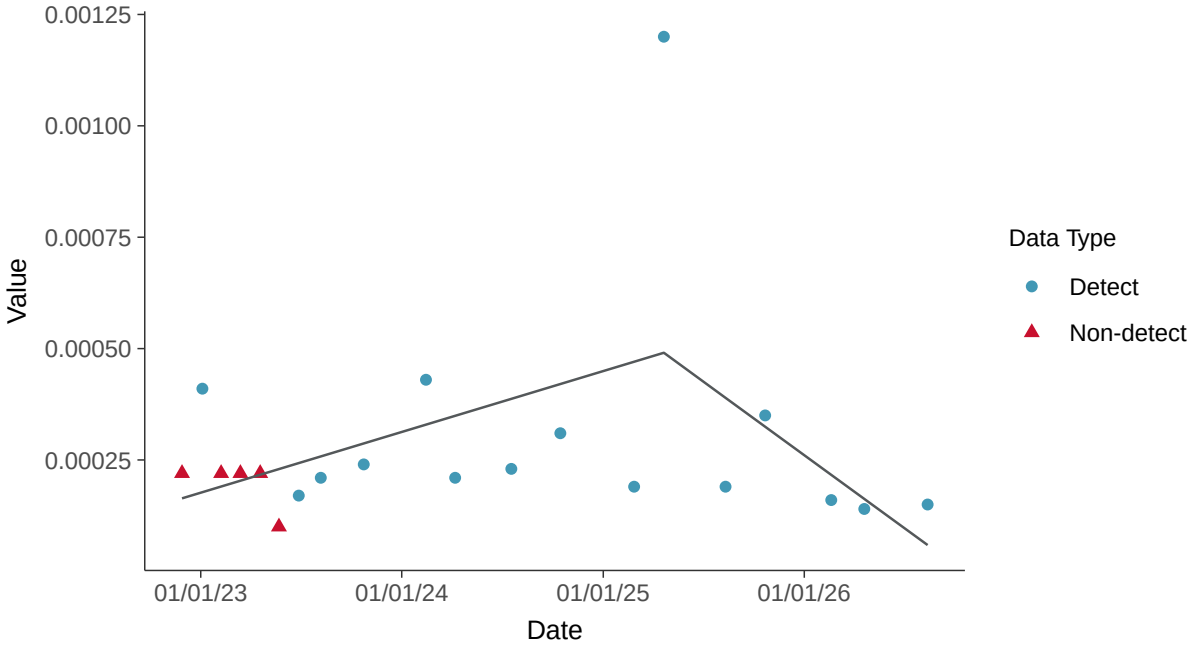
Trend Regression: Lognormal MLE

Selenium, MW-04 (mg/L)



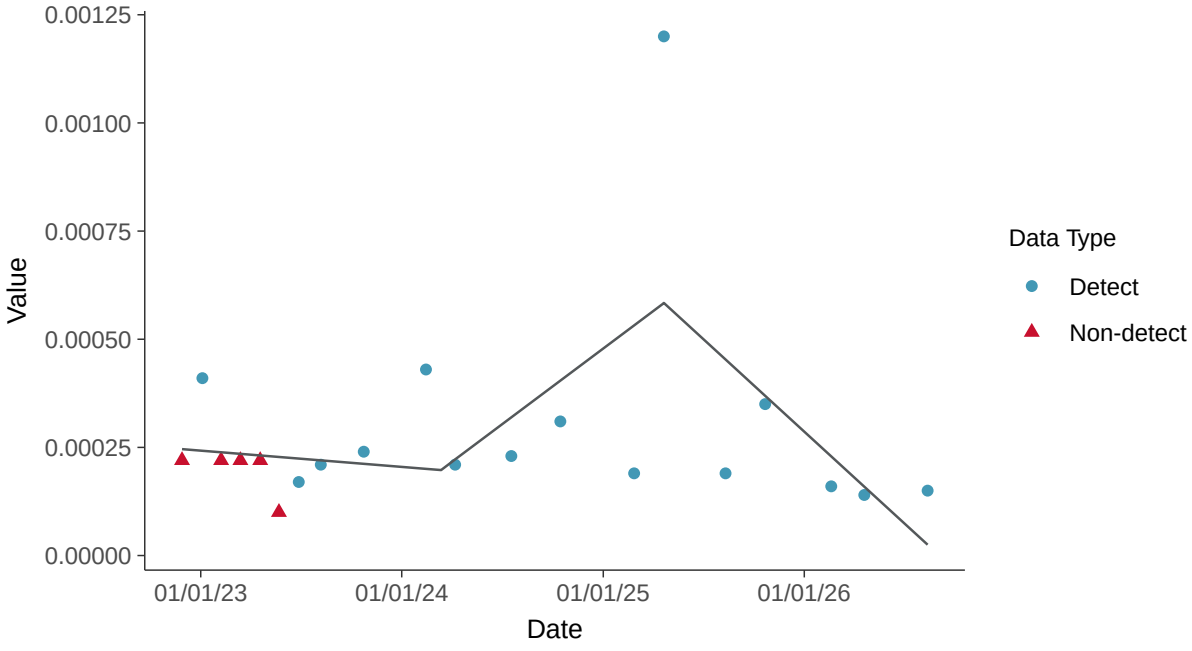
Trend Regression: Piecewise Linear-Linear

Selenium, MW-04 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Selenium, MW-04 (mg/L)

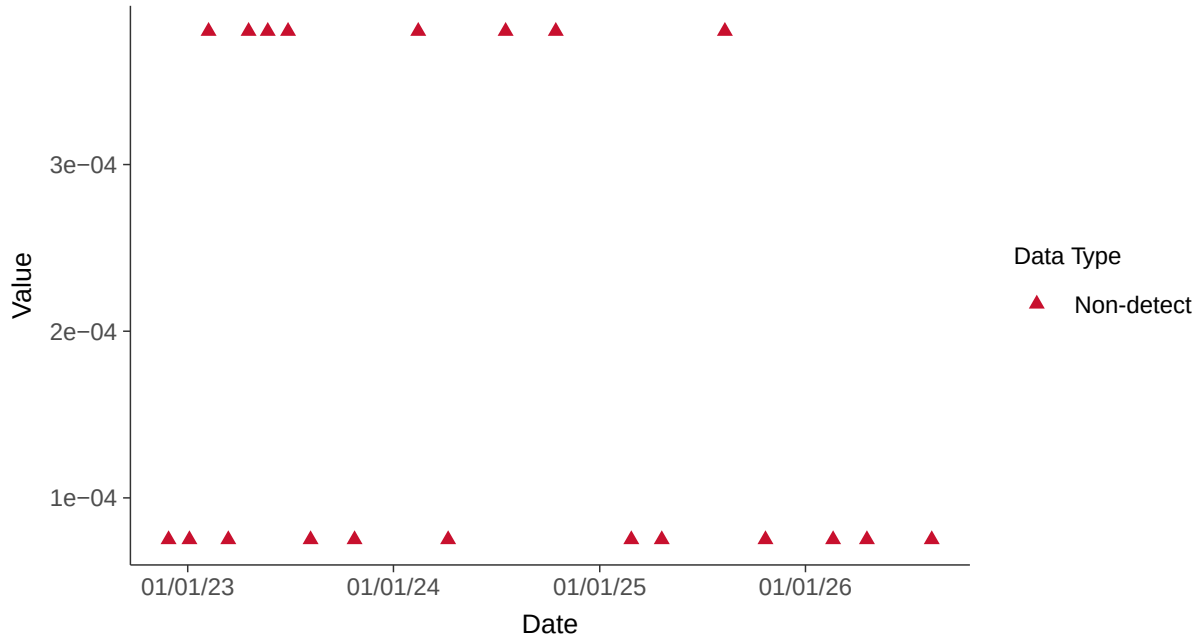


Appendix IV: Thallium, MW-04

ID: 14_2_4_125

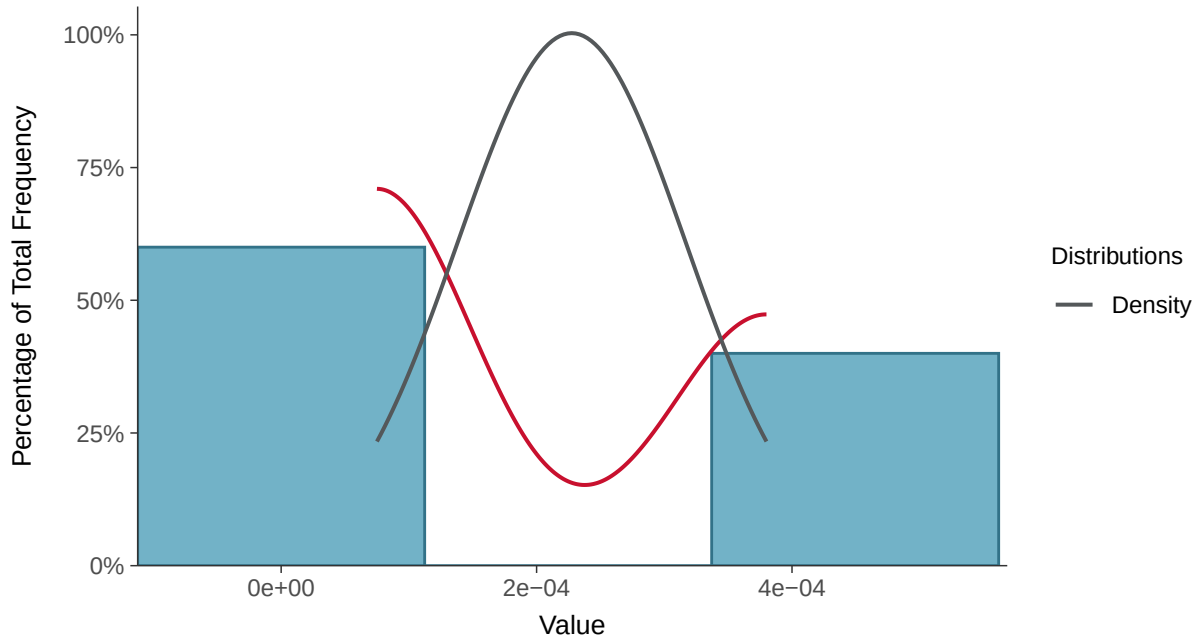
Scatter Plot

Thallium, MW-04 (mg/L)



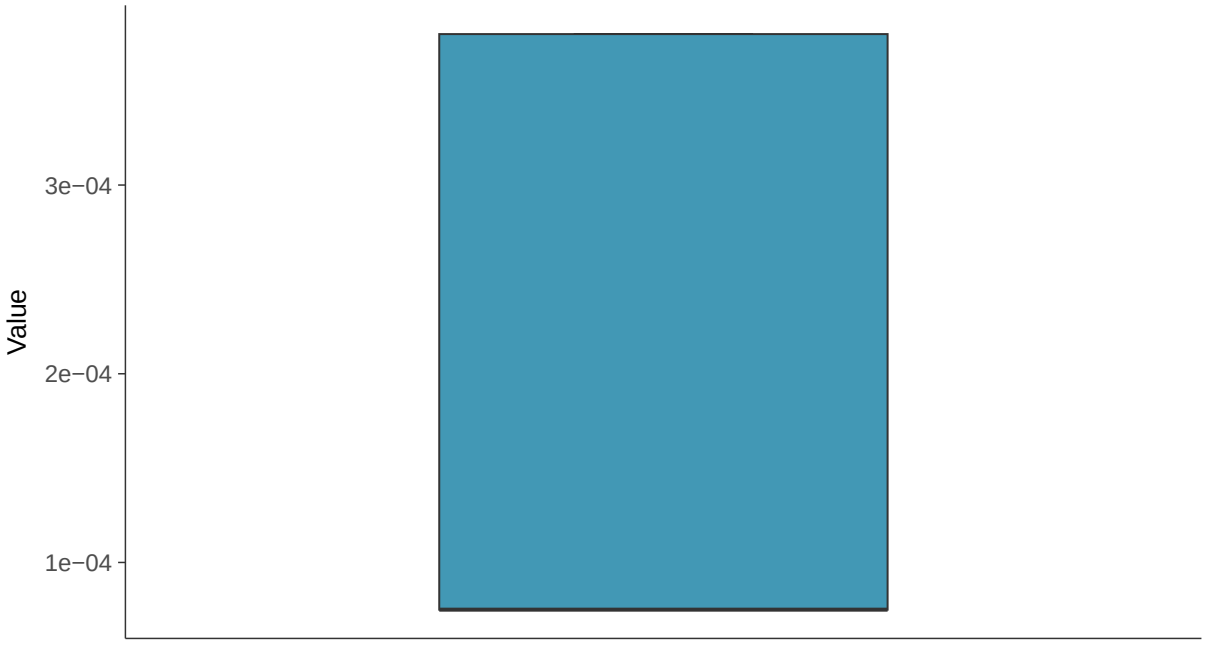
Histogram

Thallium, MW-04 (mg/L)



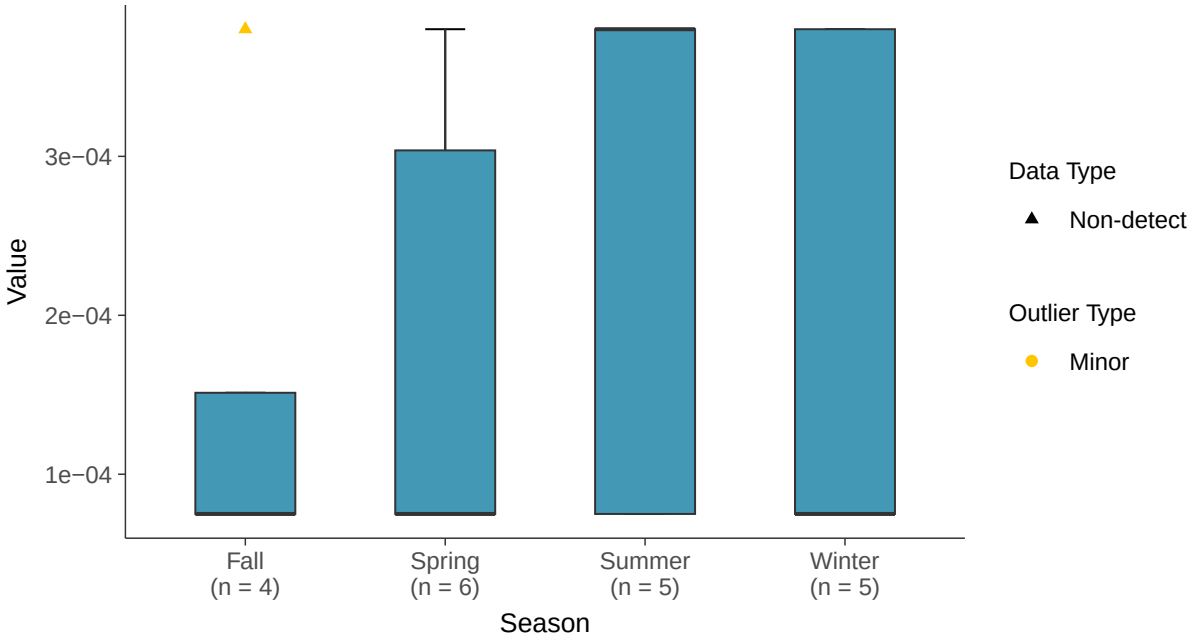
Boxplot

Thallium, MW-04 (mg/L)



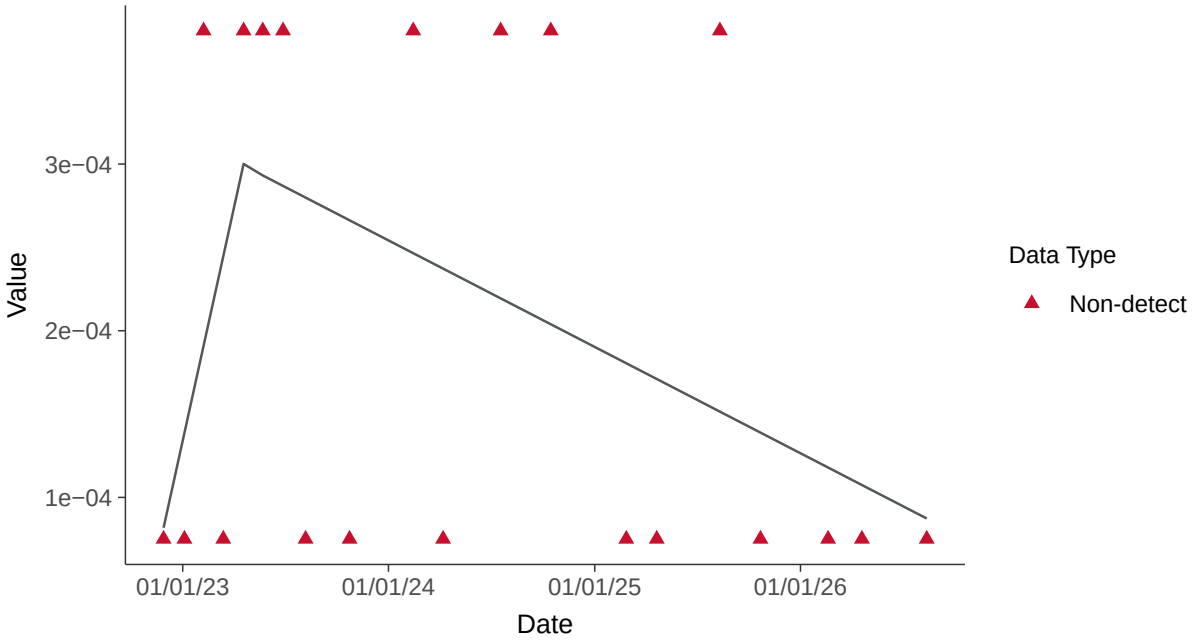
Boxplot by Season

Thallium, MW-04 (mg/L)



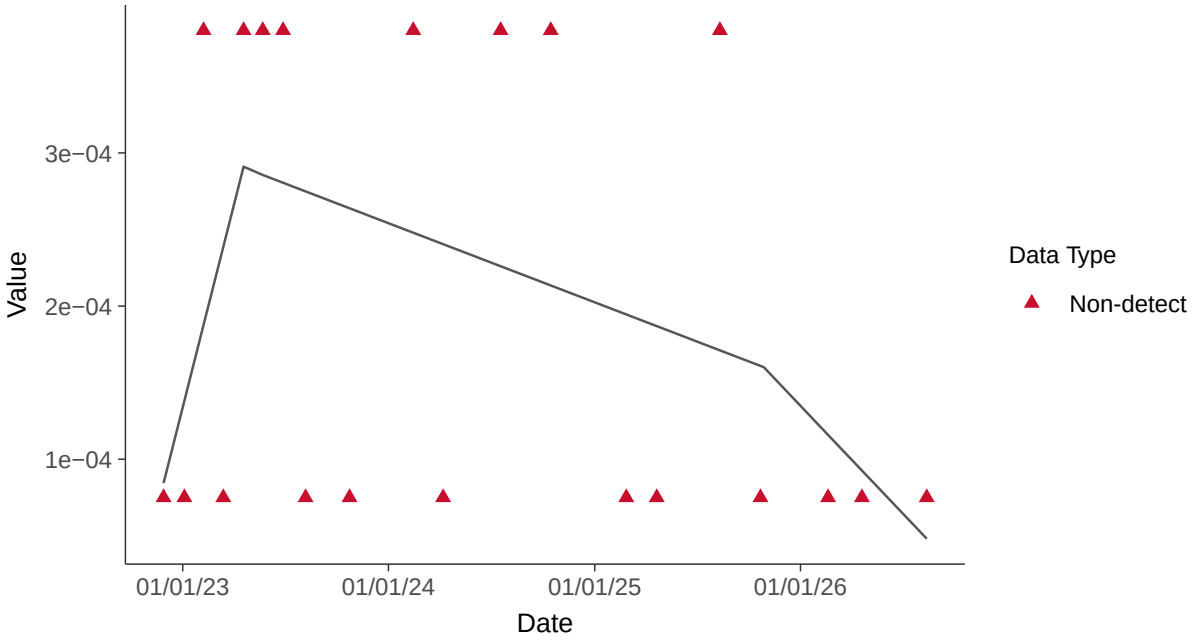
Trend Regression: Piecewise Linear-Linear

Thallium, MW-04 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Thallium, MW-04 (mg/L)

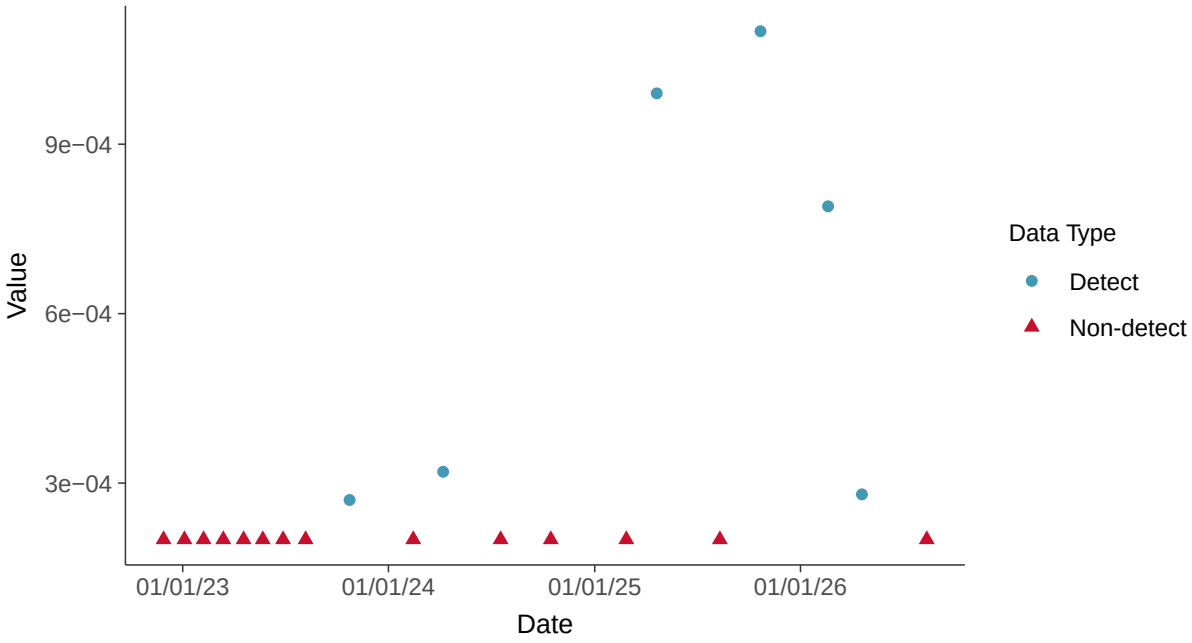


Part 115: Copper, MW-04

ID: 14_2_5_111

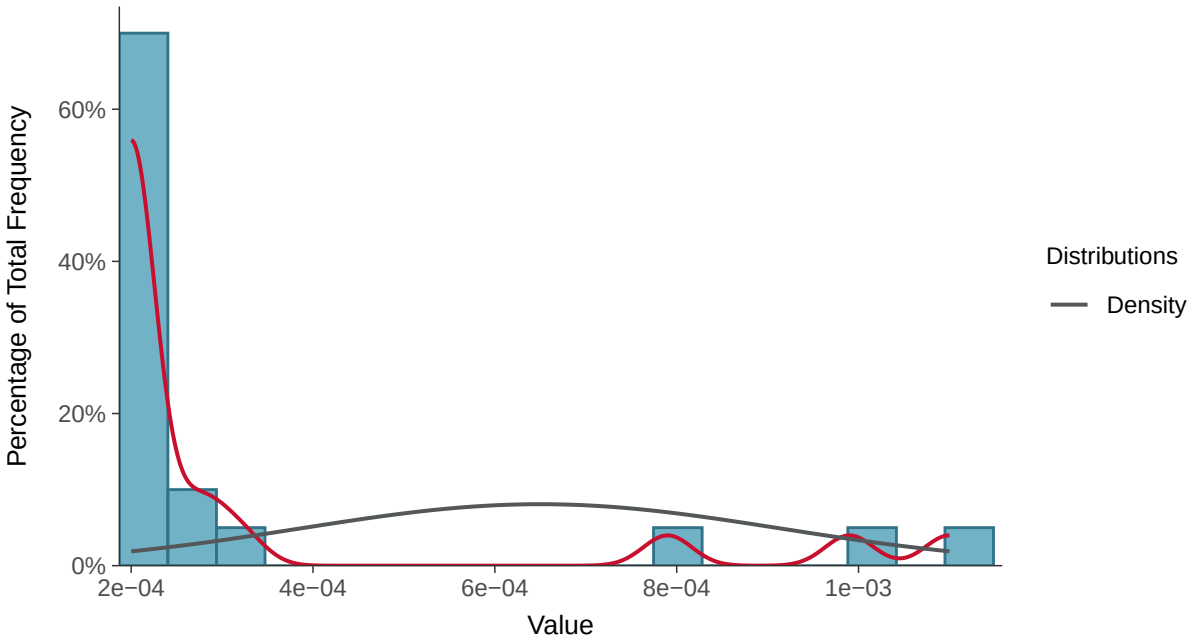
Scatter Plot

Copper, MW-04 (mg/L)



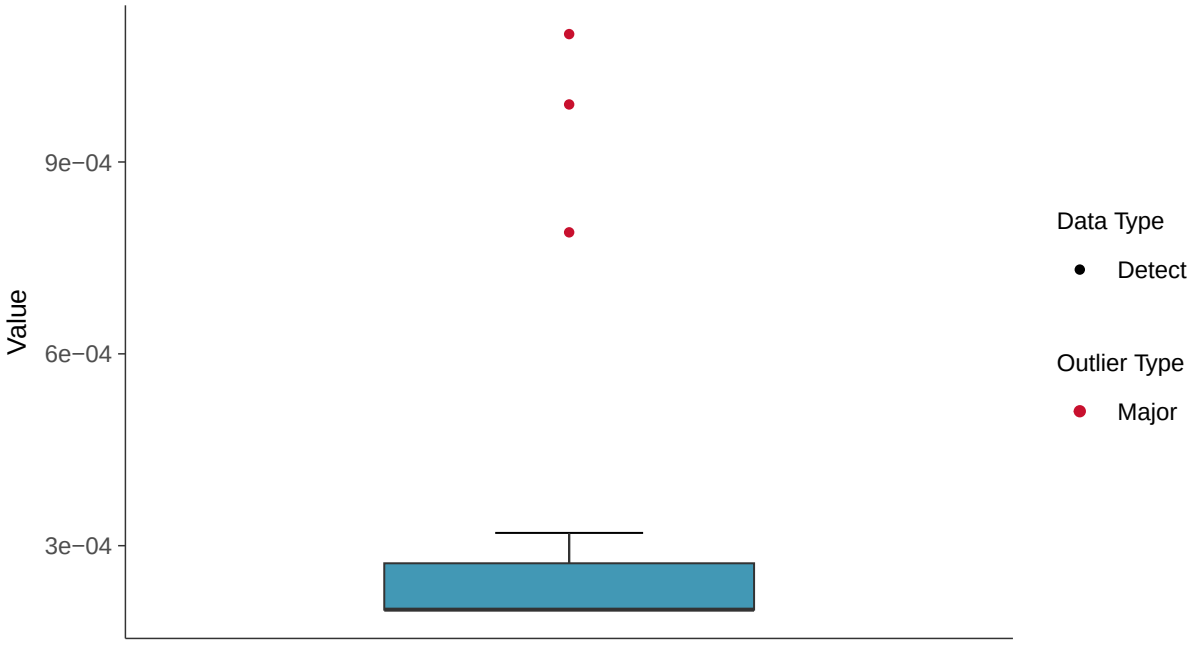
Histogram

Copper, MW-04 (mg/L)



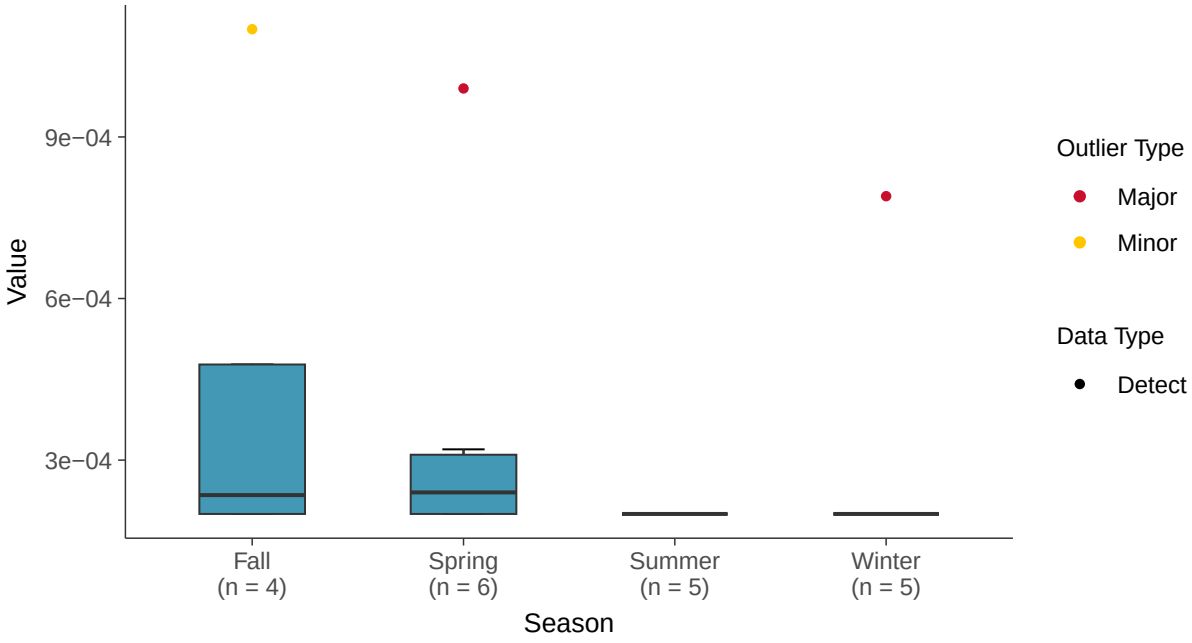
Boxplot

Copper, MW-04 (mg/L)



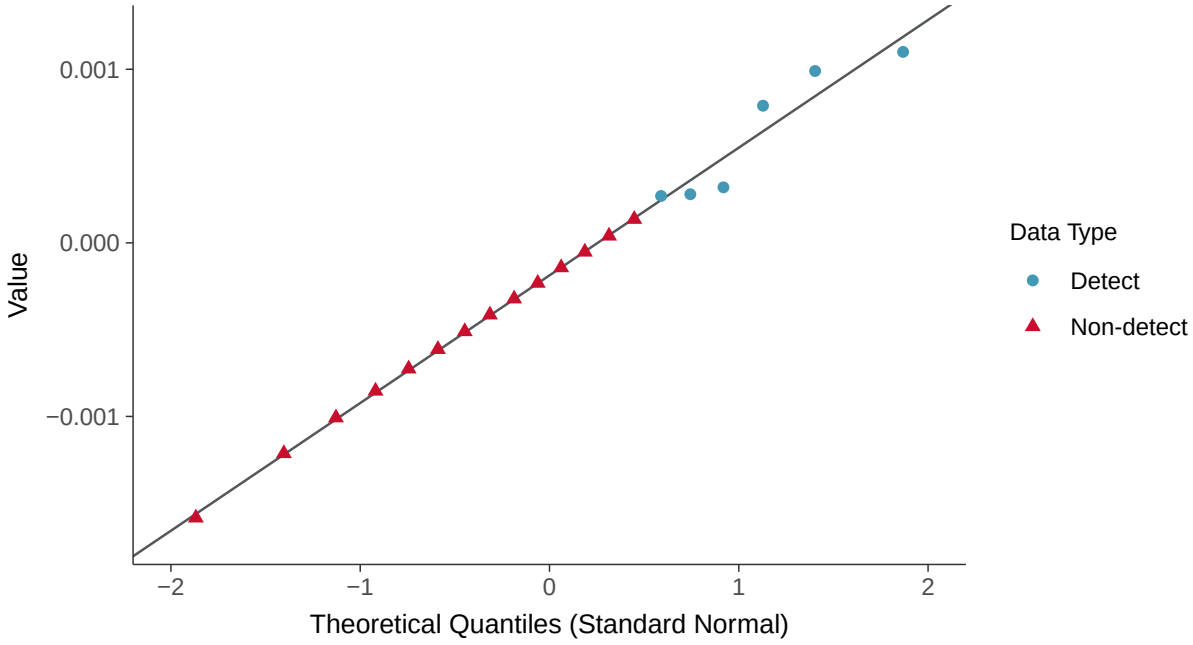
Boxplot by Season

Copper, MW-04 (mg/L)



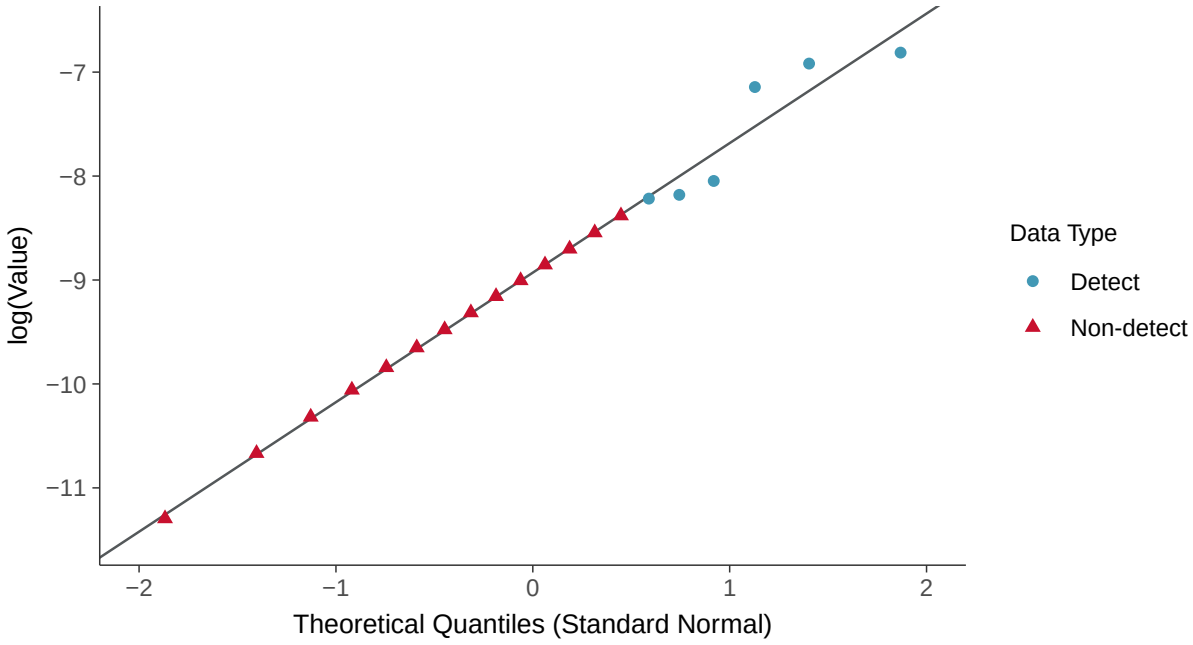
Normal Q-Q plot using ROS Imputed Estimates

Copper, MW-04 (mg/L)



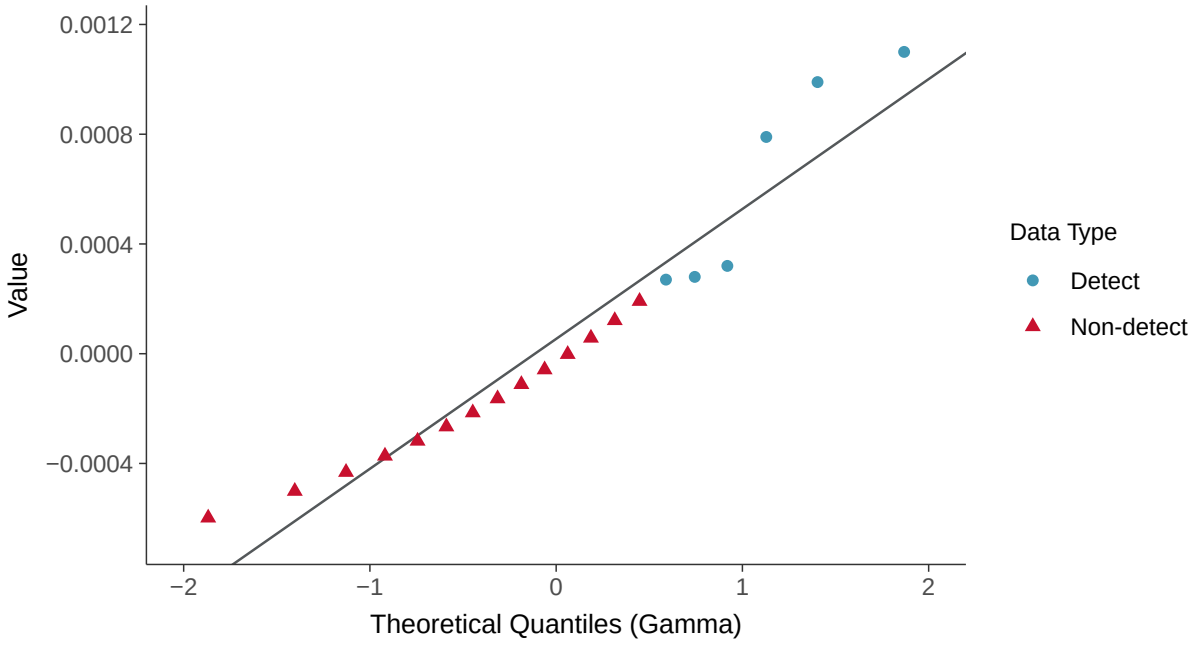
Lognormal Q-Q plot using ROS Imputed Estimates

Copper, MW-04 (mg/L)



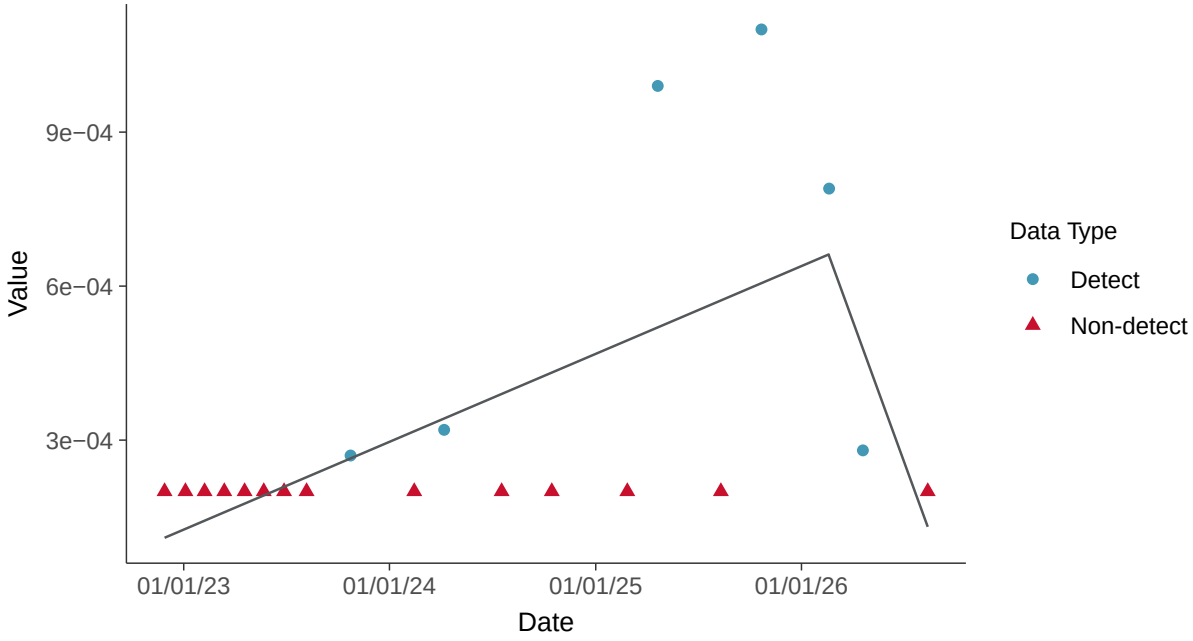
Gamma Q-Q plot using ROS Imputed Estimates

Copper, MW-04 (mg/L)



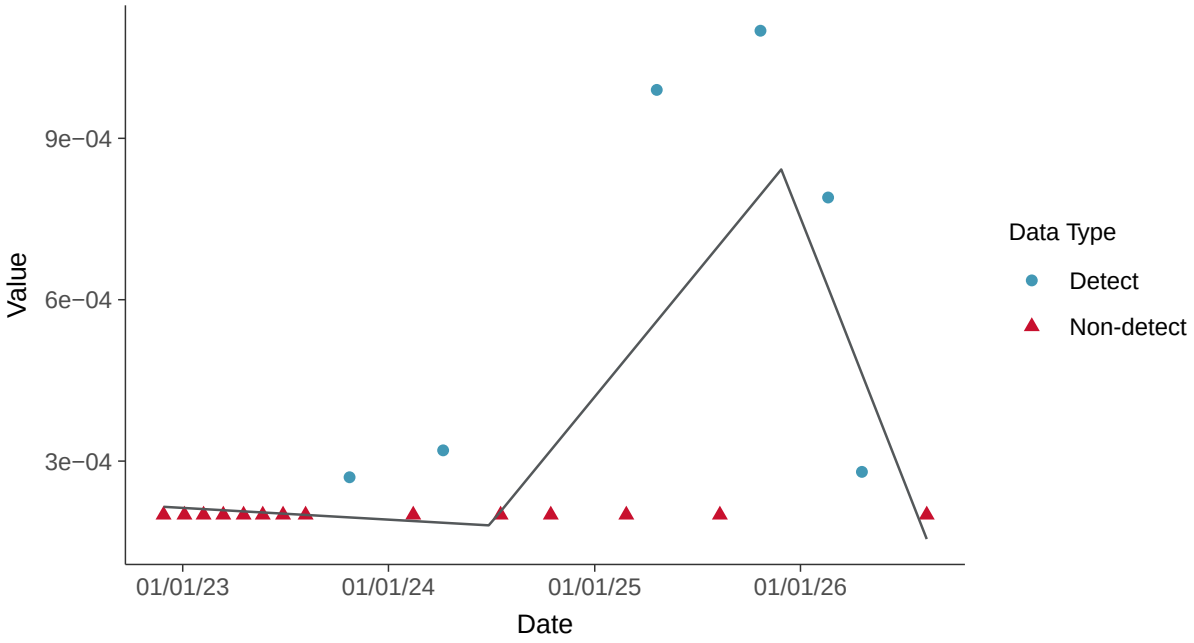
Trend Regression: Piecewise Linear-Linear

Copper, MW-04 (mg/L)



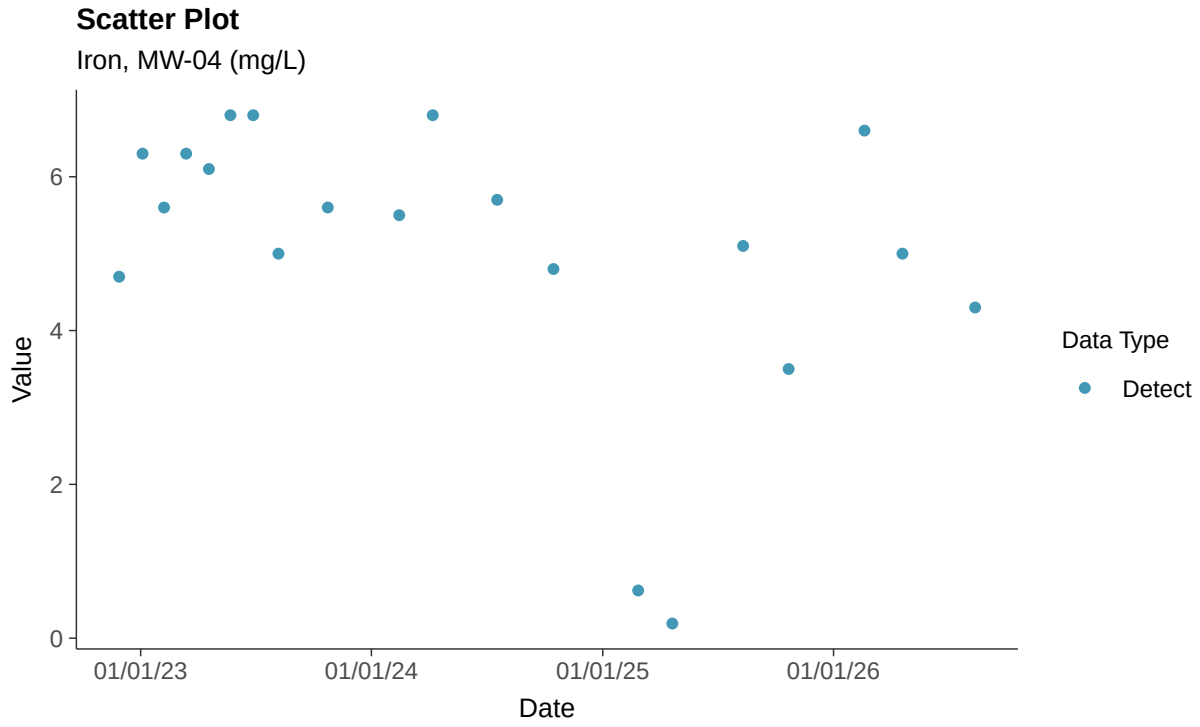
Trend Regression: Piecewise Linear-Linear-Linear

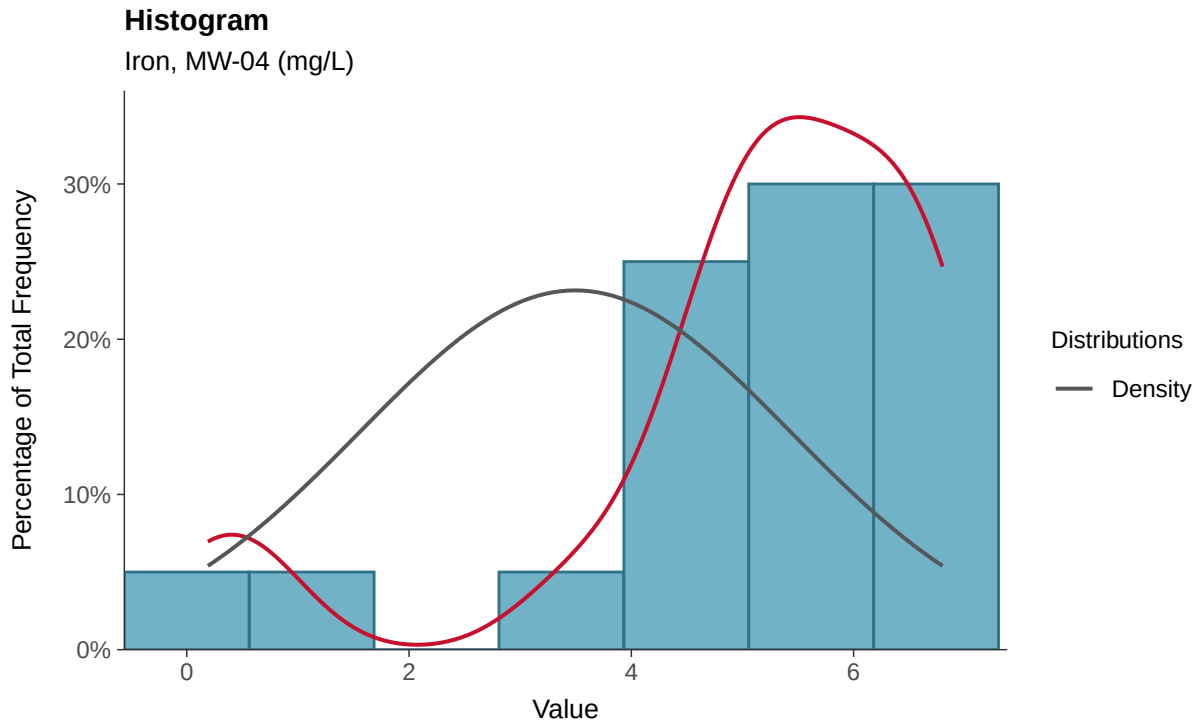
Copper, MW-04 (mg/L)



Part 115: Iron, MW-04

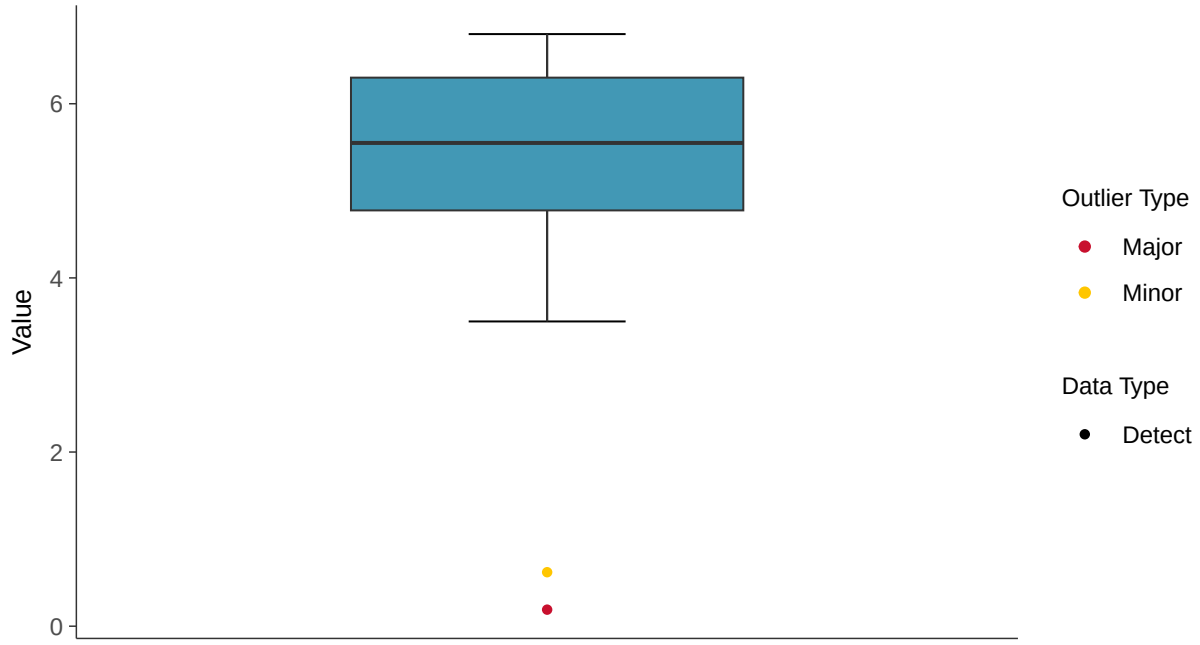
ID: 14_2_5_114





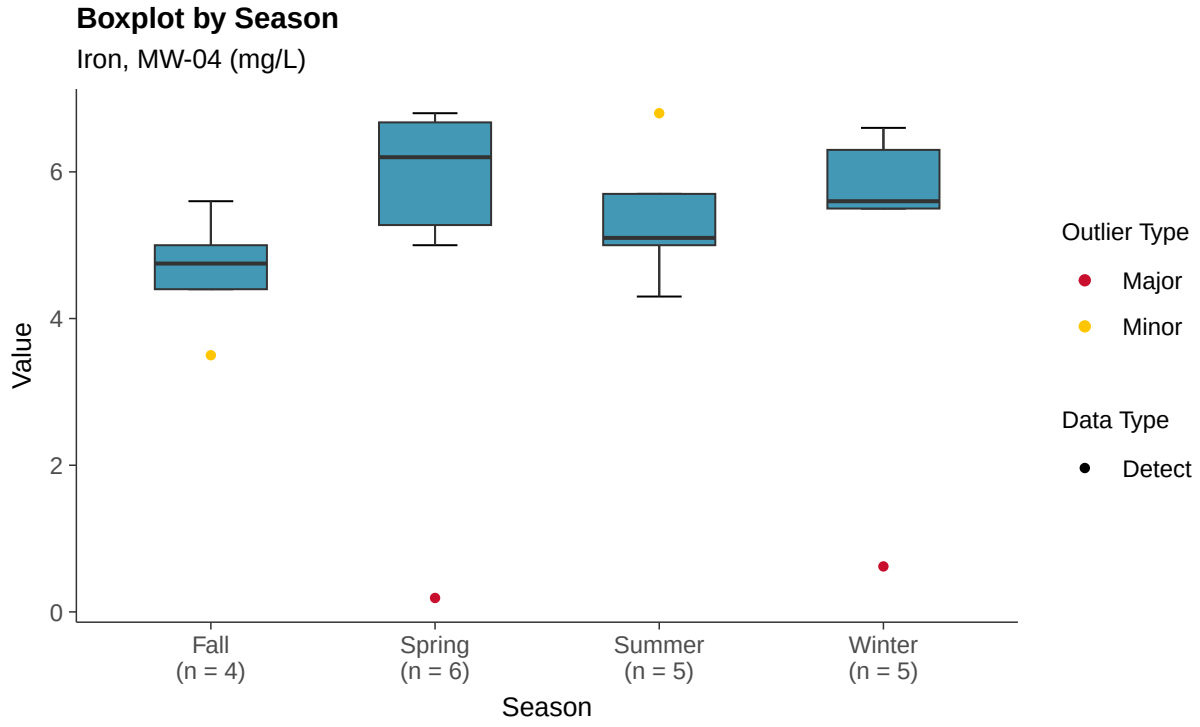
Boxplot

Iron, MW-04 (mg/L)



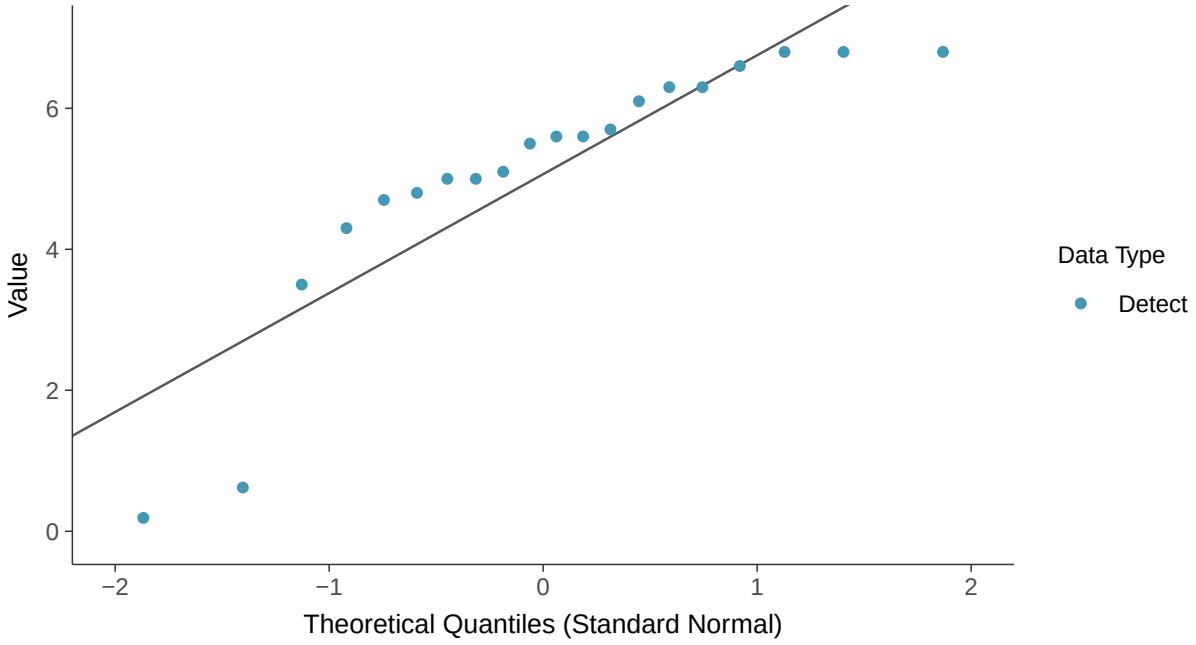
Boxplot by Season

Iron, MW-04 (mg/L)



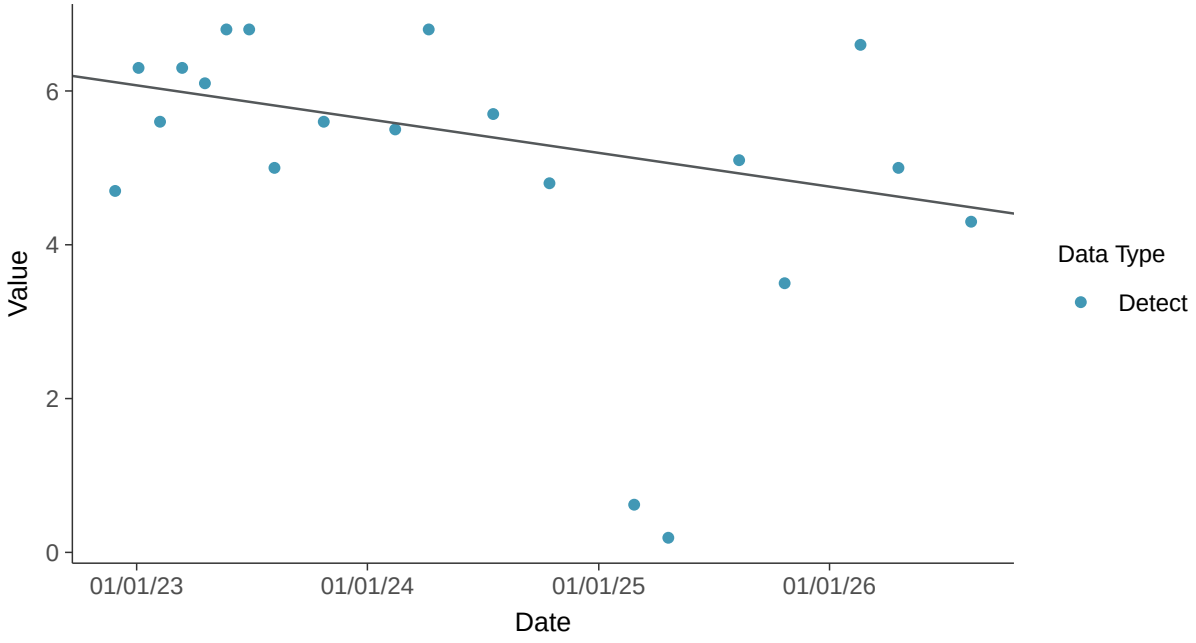
Normal Q-Q plot

Iron, MW-04 (mg/L)



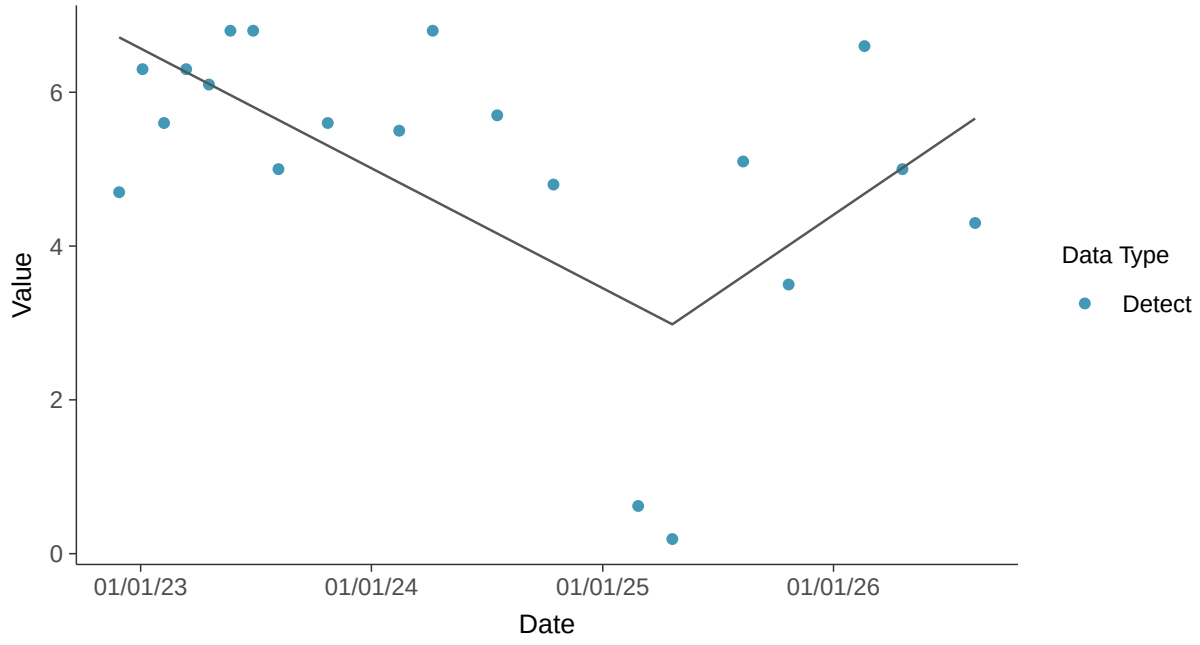
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Iron, MW-04 (mg/L)



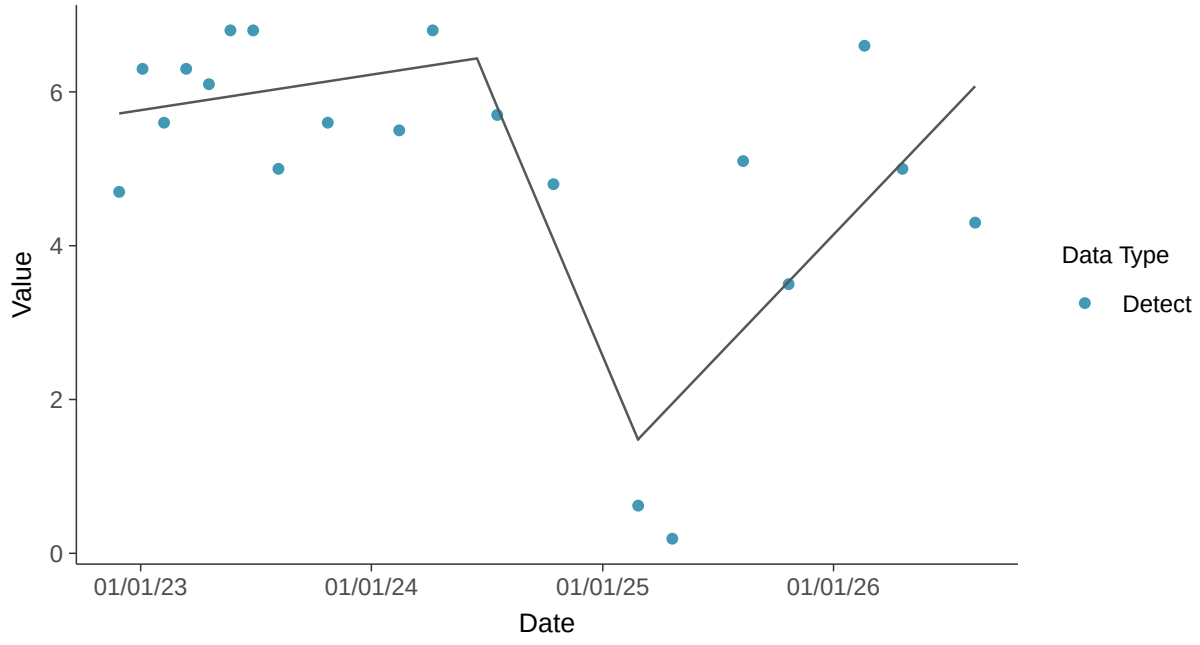
Trend Regression: Piecewise Linear-Linear

Iron, MW-04 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Iron, MW-04 (mg/L)

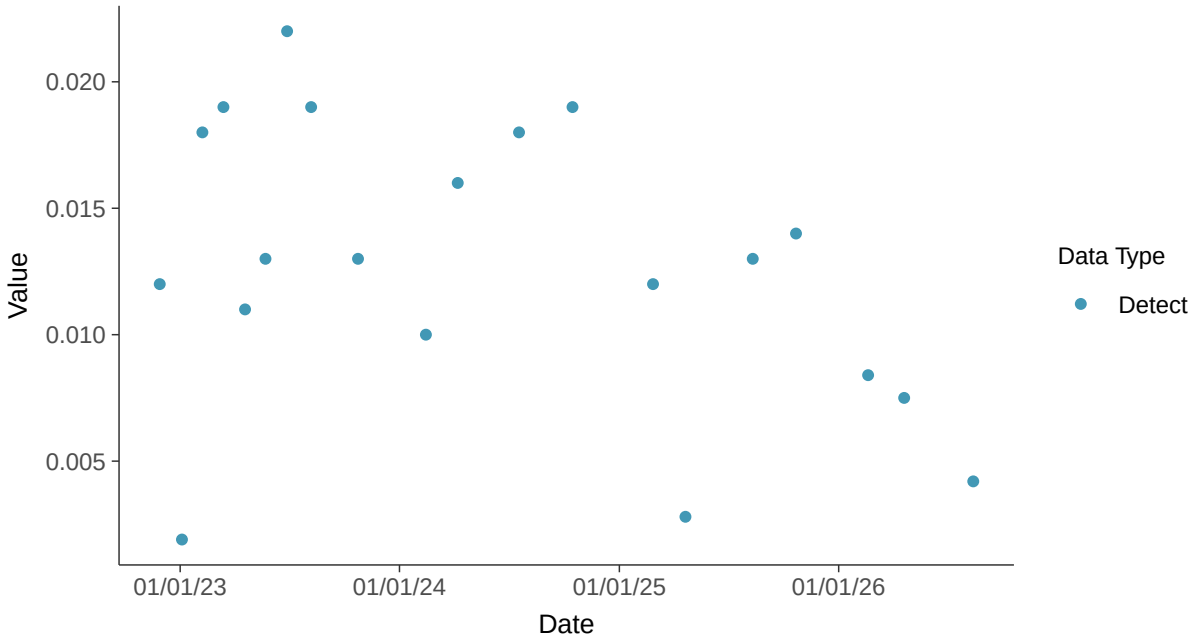


Part 115: Nickel, MW-04

ID: 14_2_5_119

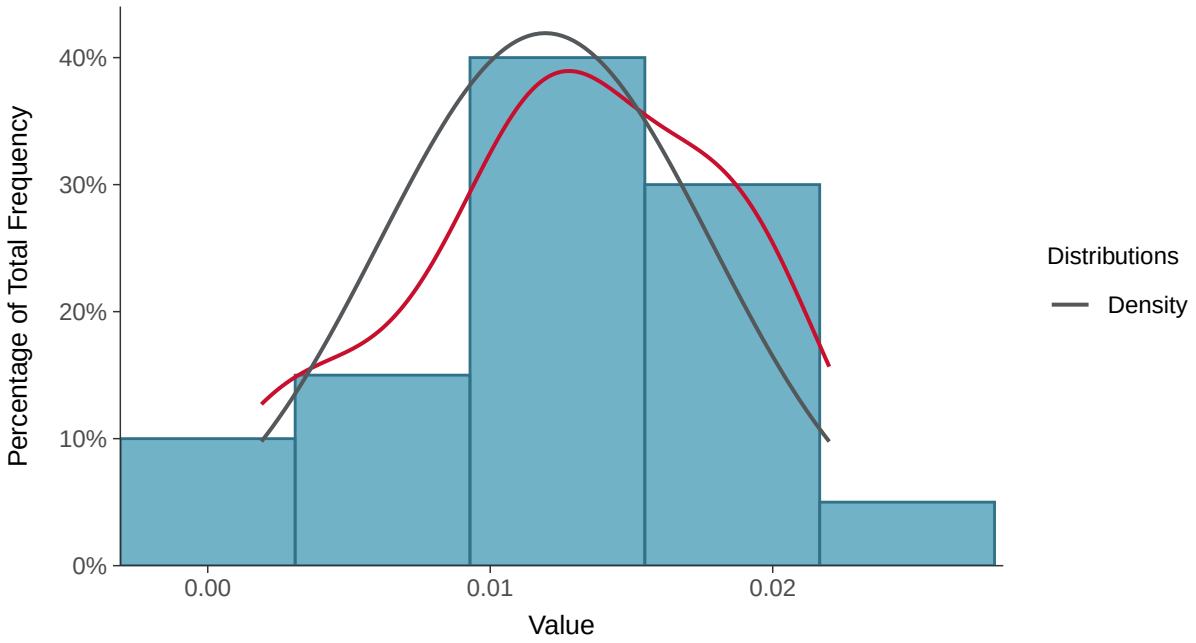
Scatter Plot

Nickel, MW-04 (mg/L)



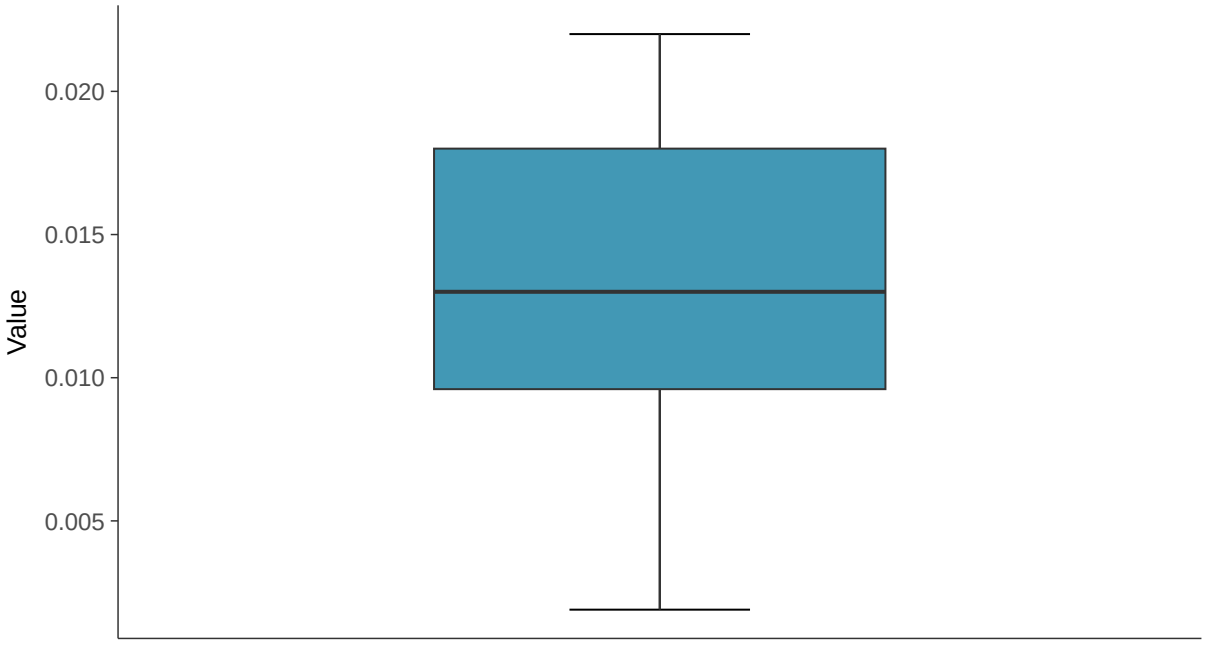
Histogram

Nickel, MW-04 (mg/L)



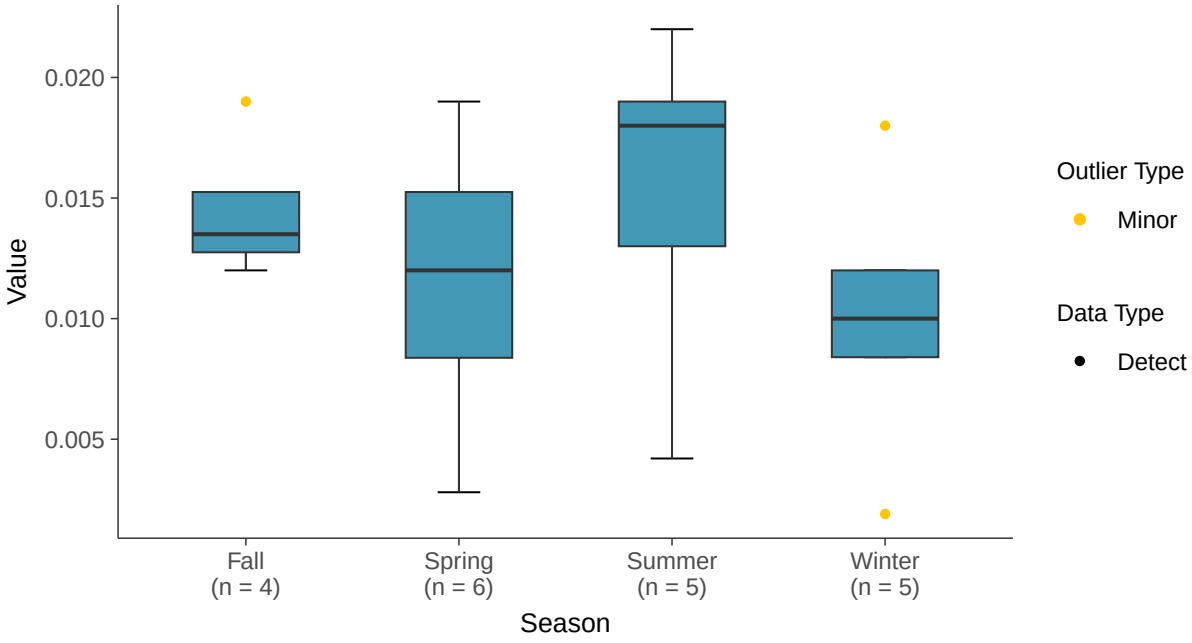
Boxplot

Nickel, MW-04 (mg/L)



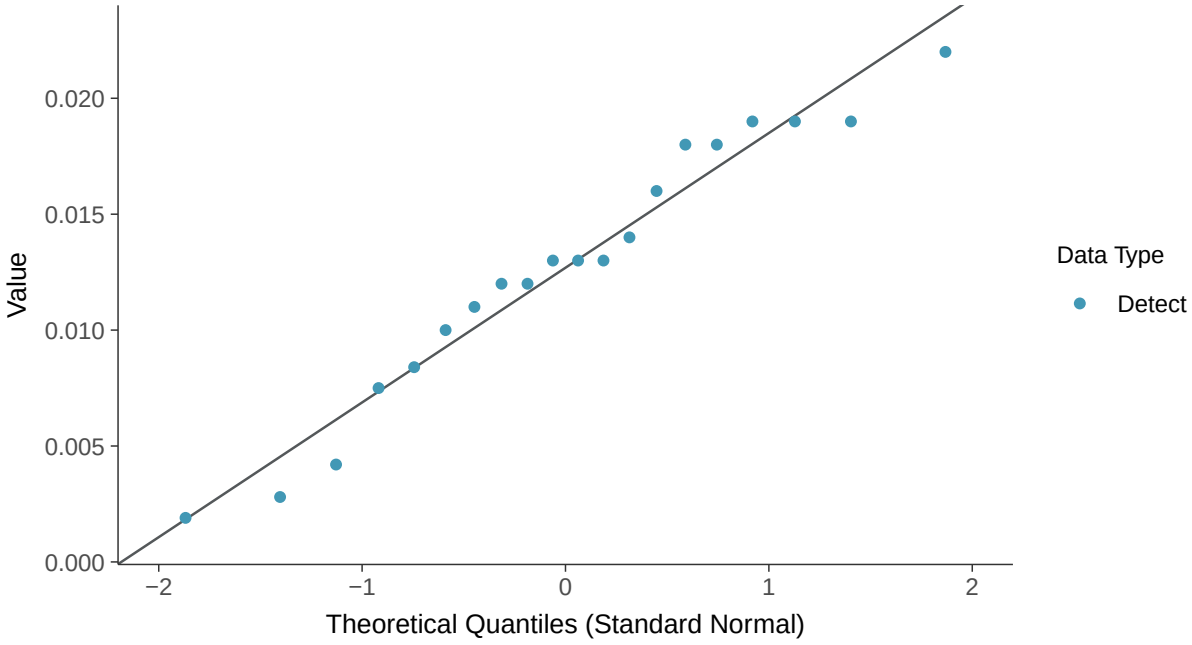
Boxplot by Season

Nickel, MW-04 (mg/L)



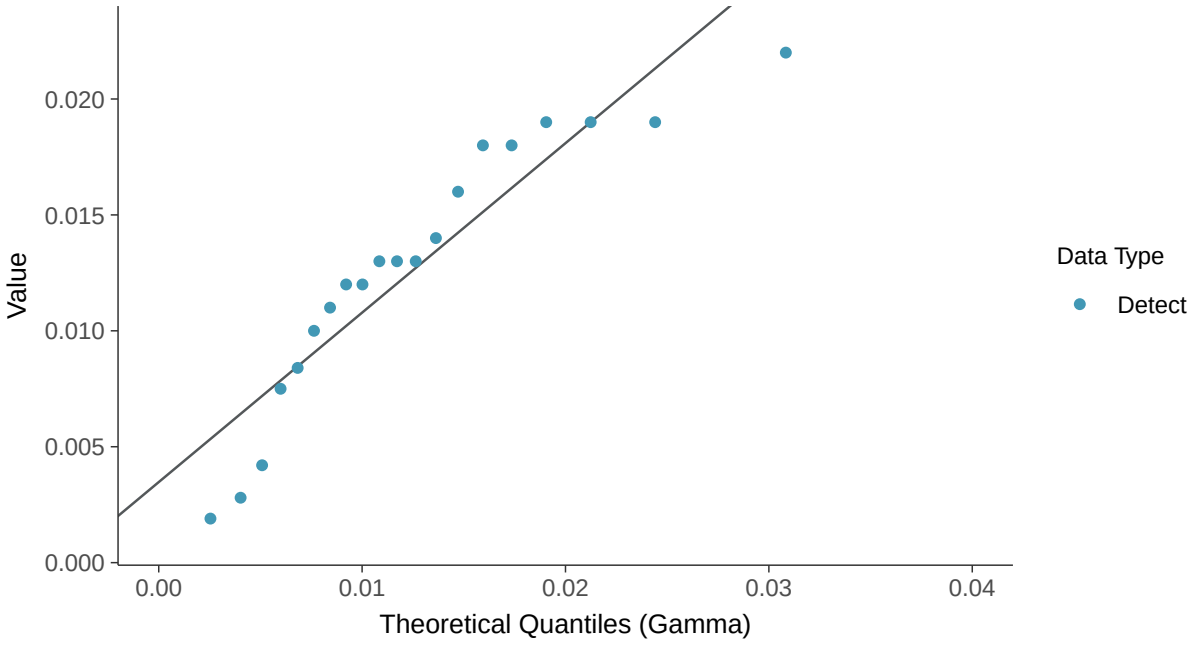
Normal Q-Q plot

Nickel, MW-04 (mg/L)



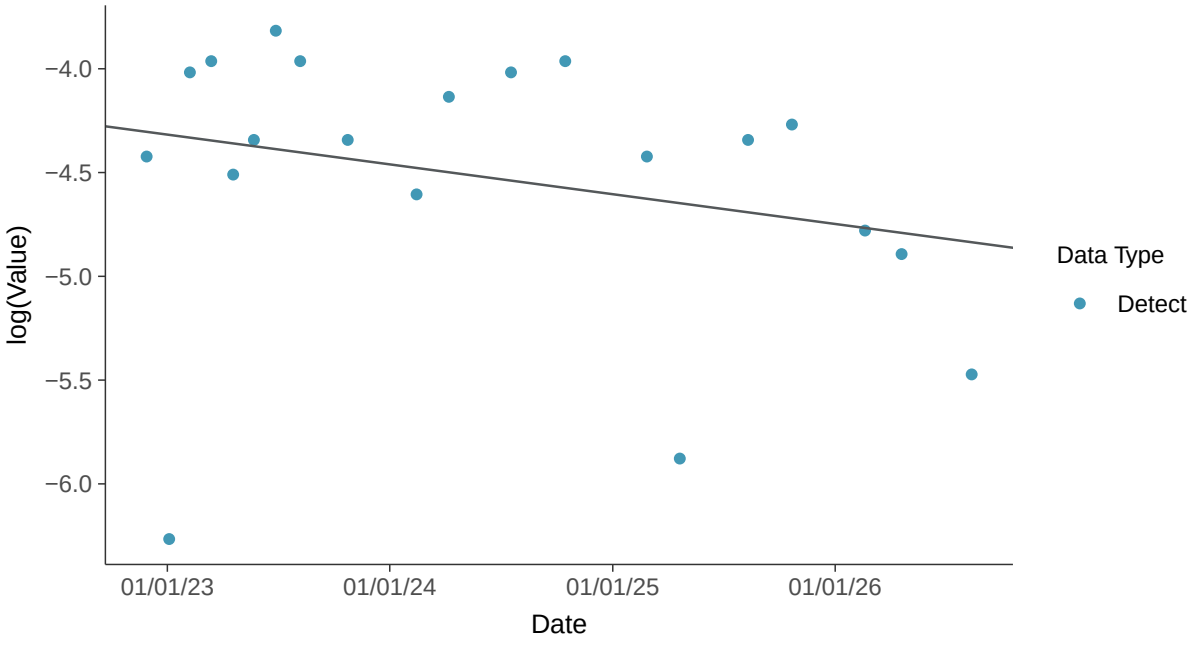
Gamma Q-Q plot

Nickel, MW-04 (mg/L)



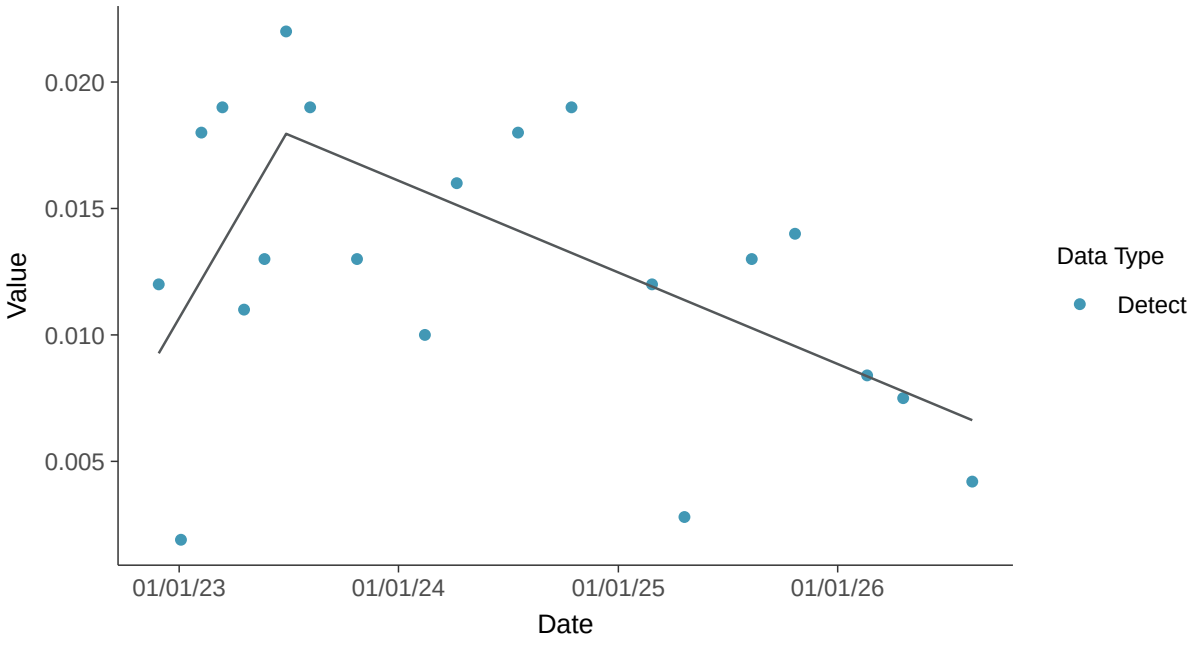
Trend Regression: Lognormal MLE

Nickel, MW-04 (mg/L)



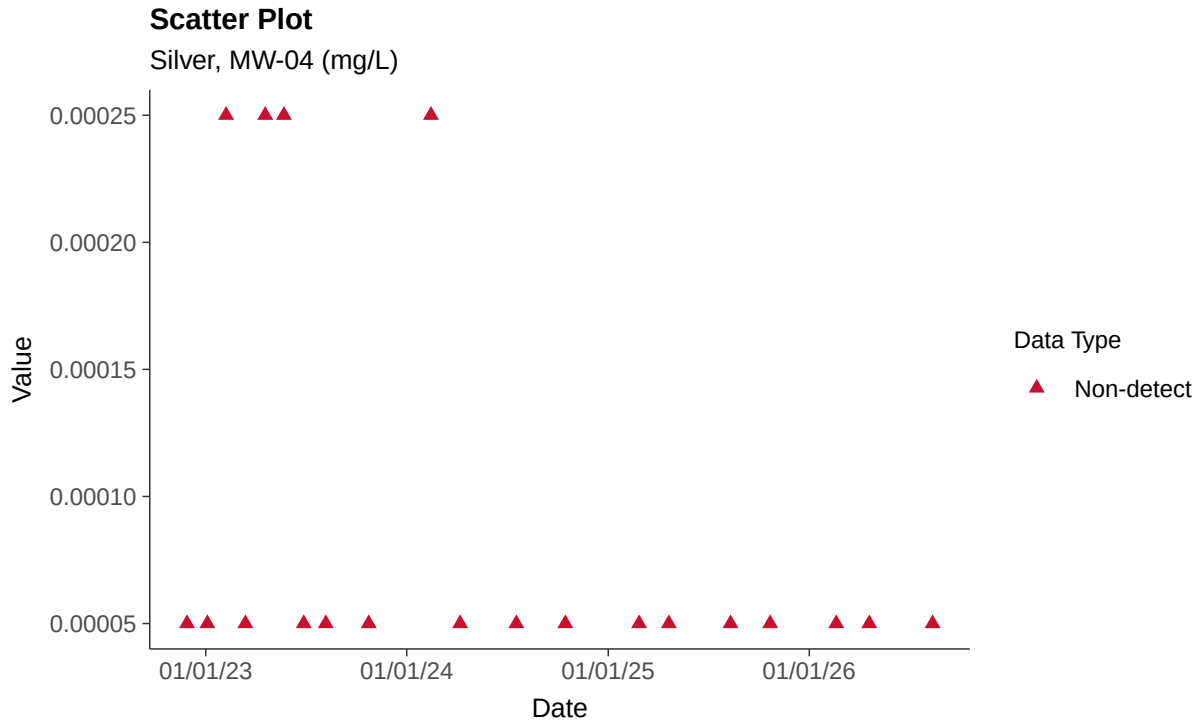
Trend Regression: Piecewise Linear-Linear

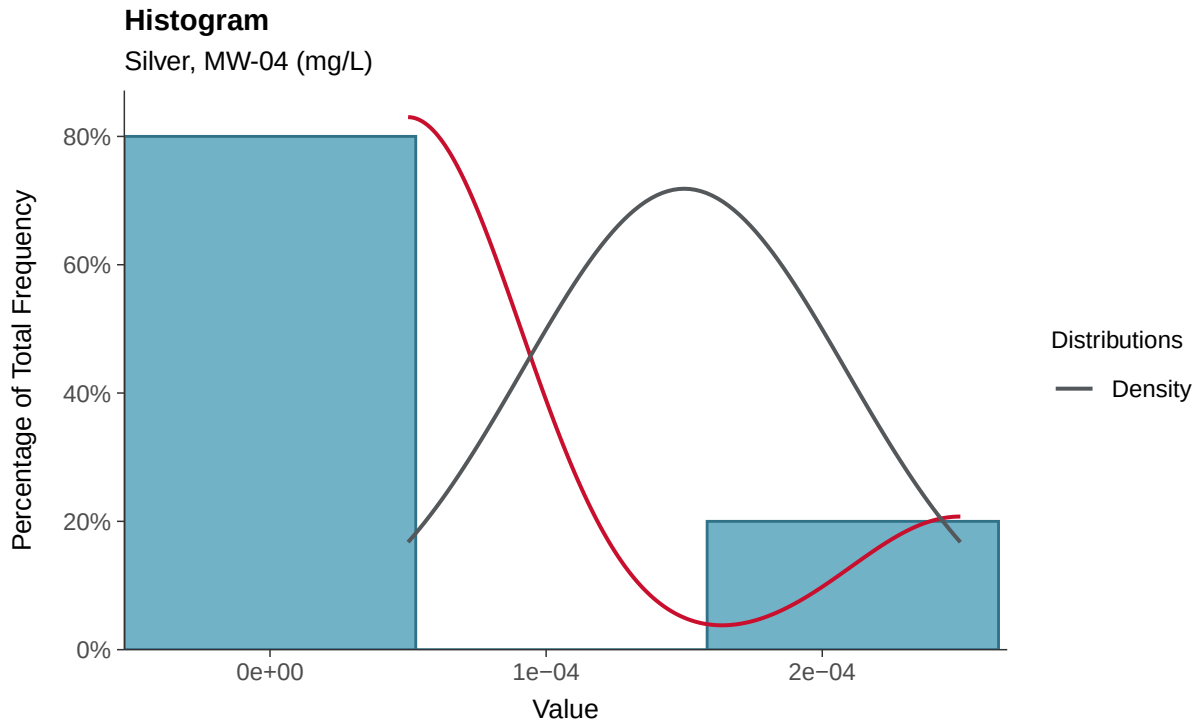
Nickel, MW-04 (mg/L)



Part 115: Silver, MW-04

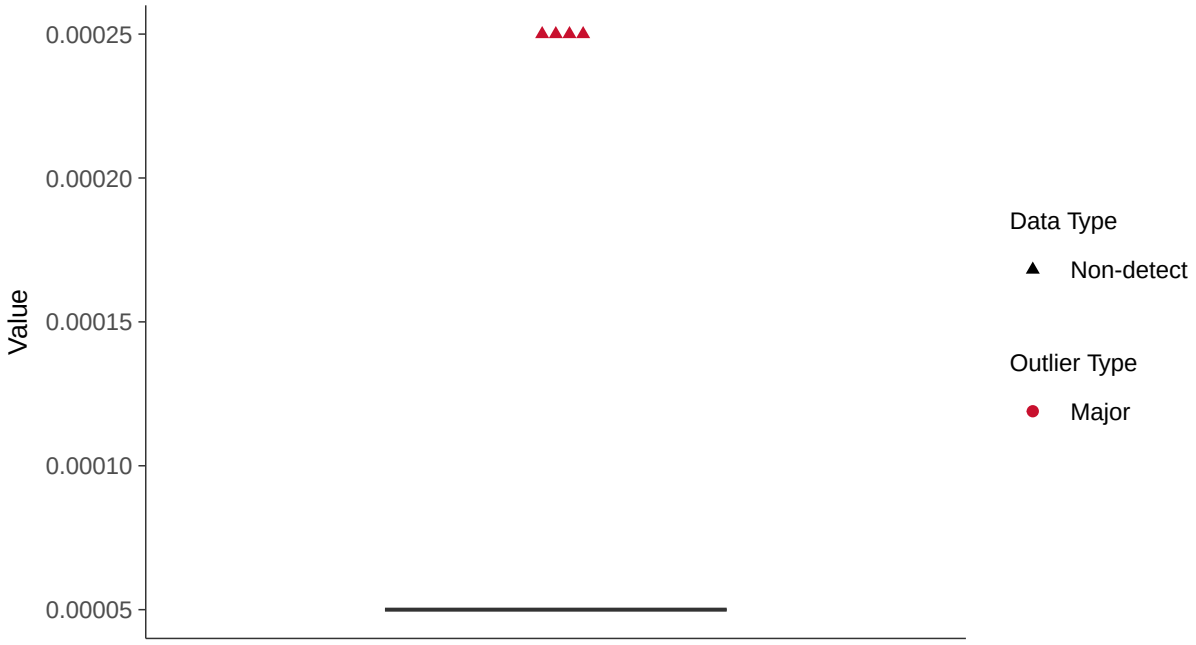
ID: 14_2_5_123





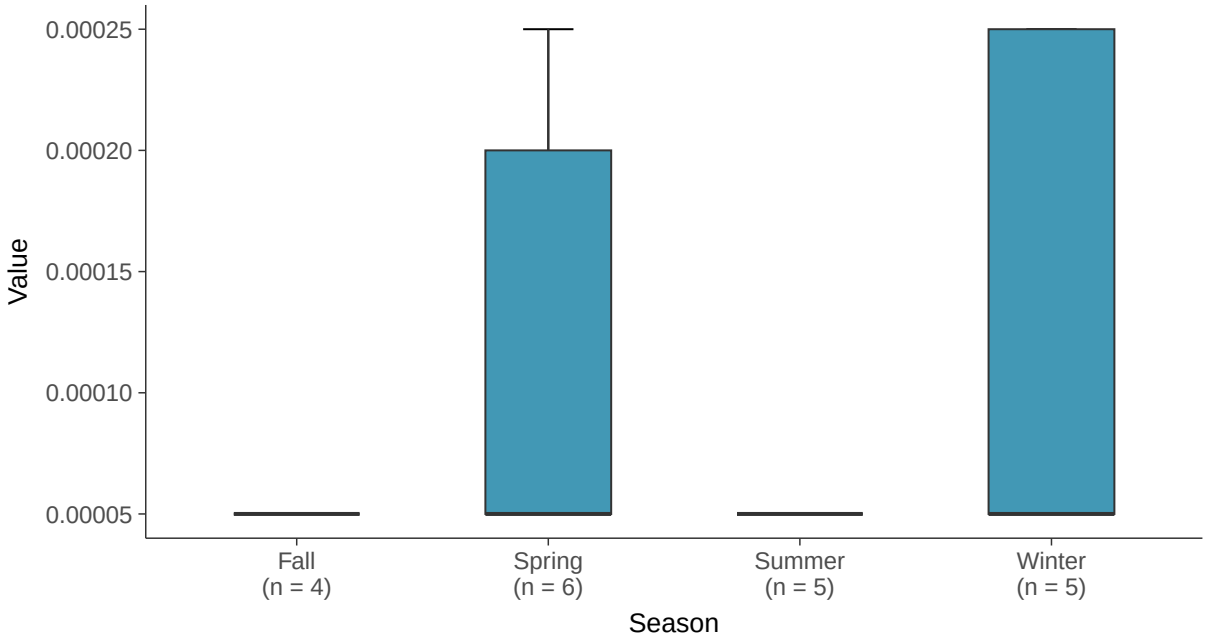
Boxplot

Silver, MW-04 (mg/L)



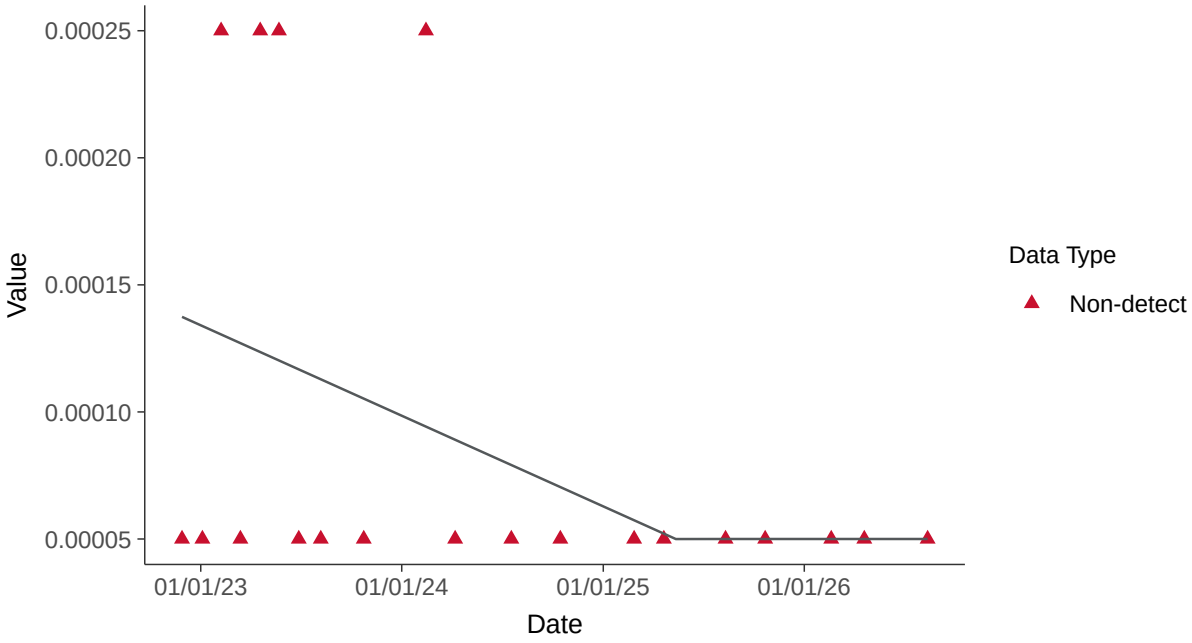
Boxplot by Season

Silver, MW-04 (mg/L)



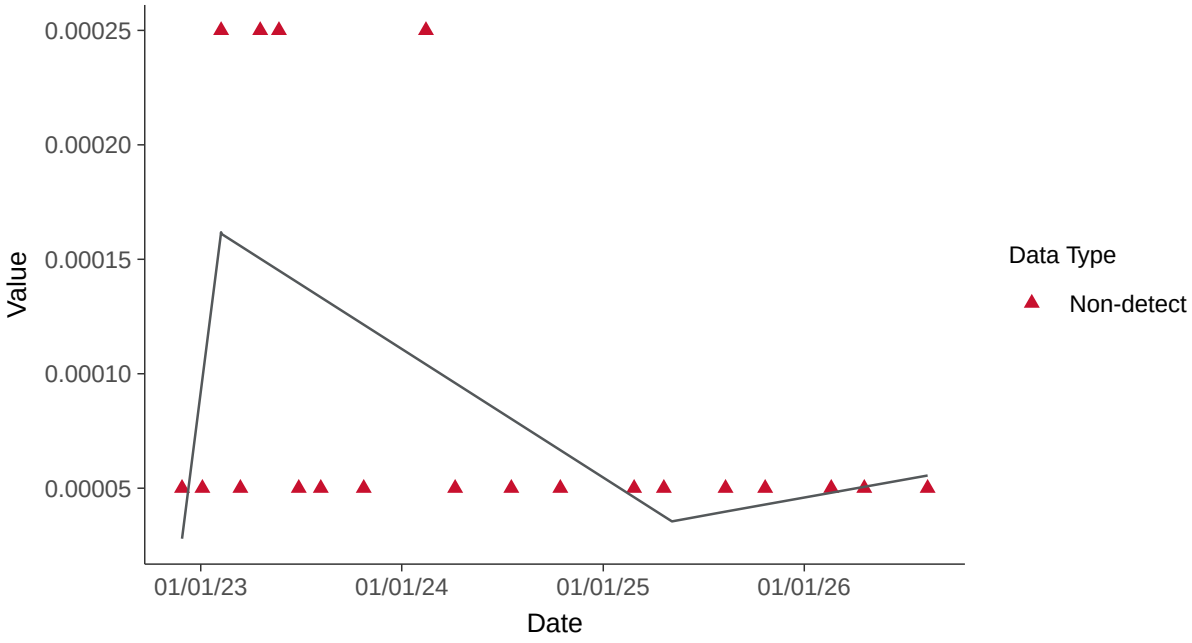
Trend Regression: Piecewise Linear-Linear

Silver, MW-04 (mg/L)



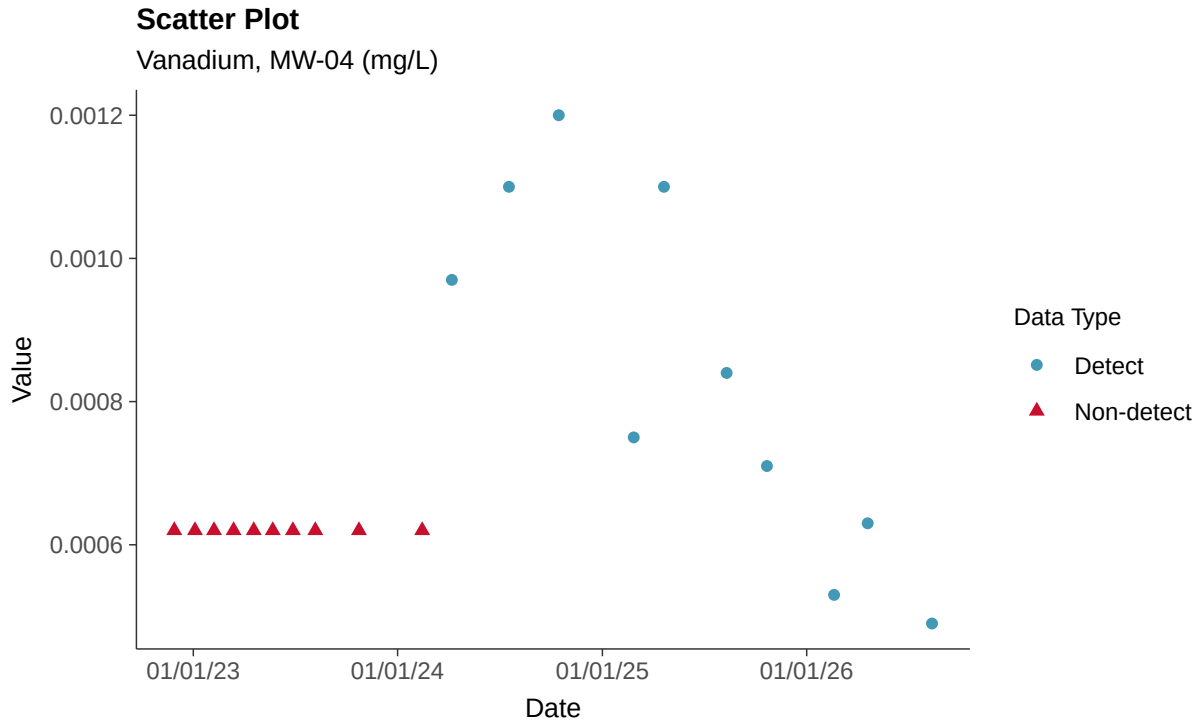
Trend Regression: Piecewise Linear-Linear-Linear

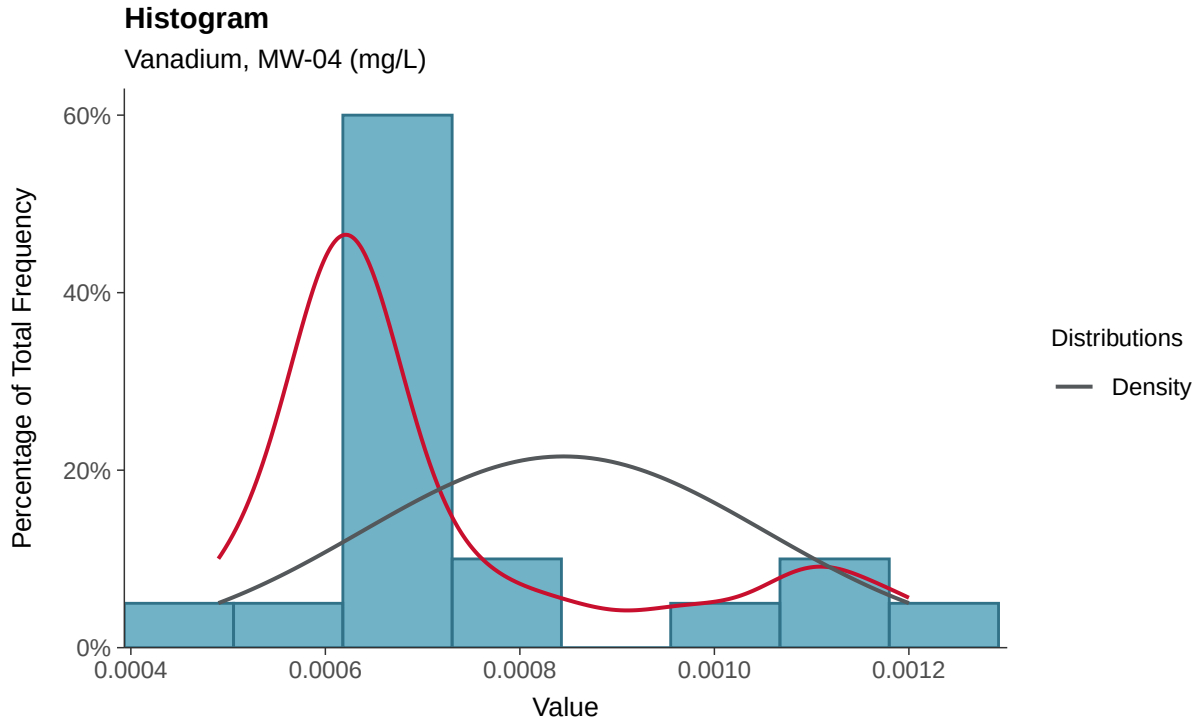
Silver, MW-04 (mg/L)



Part 115: Vanadium, MW-04

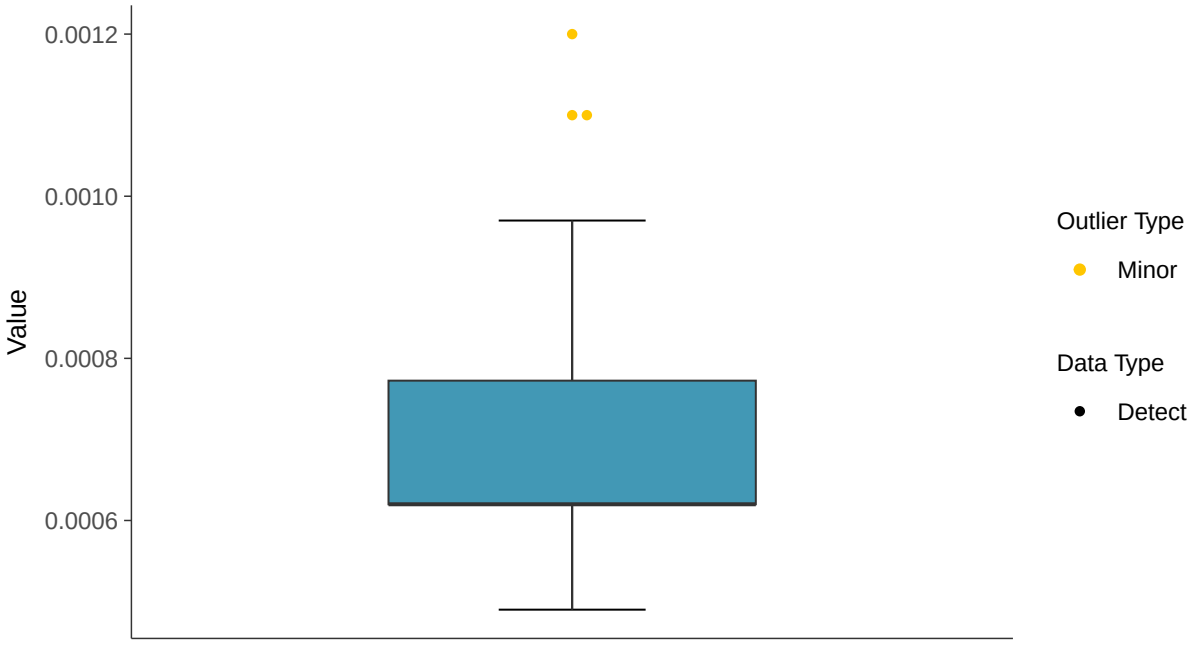
ID: 14_2_5_128





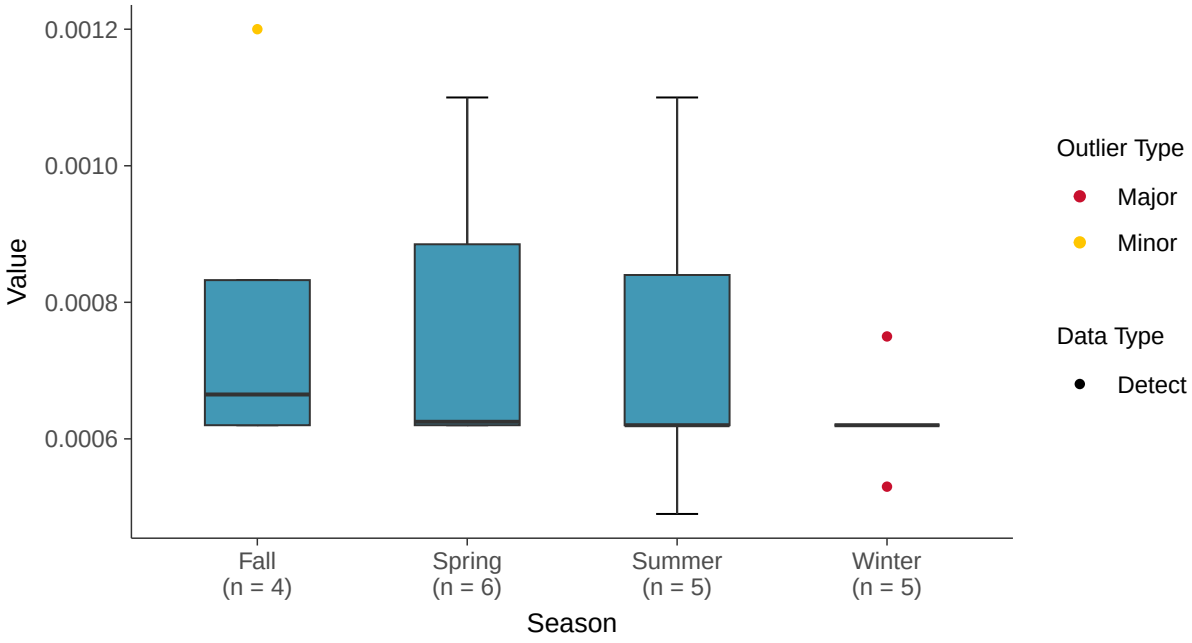
Boxplot

Vanadium, MW-04 (mg/L)



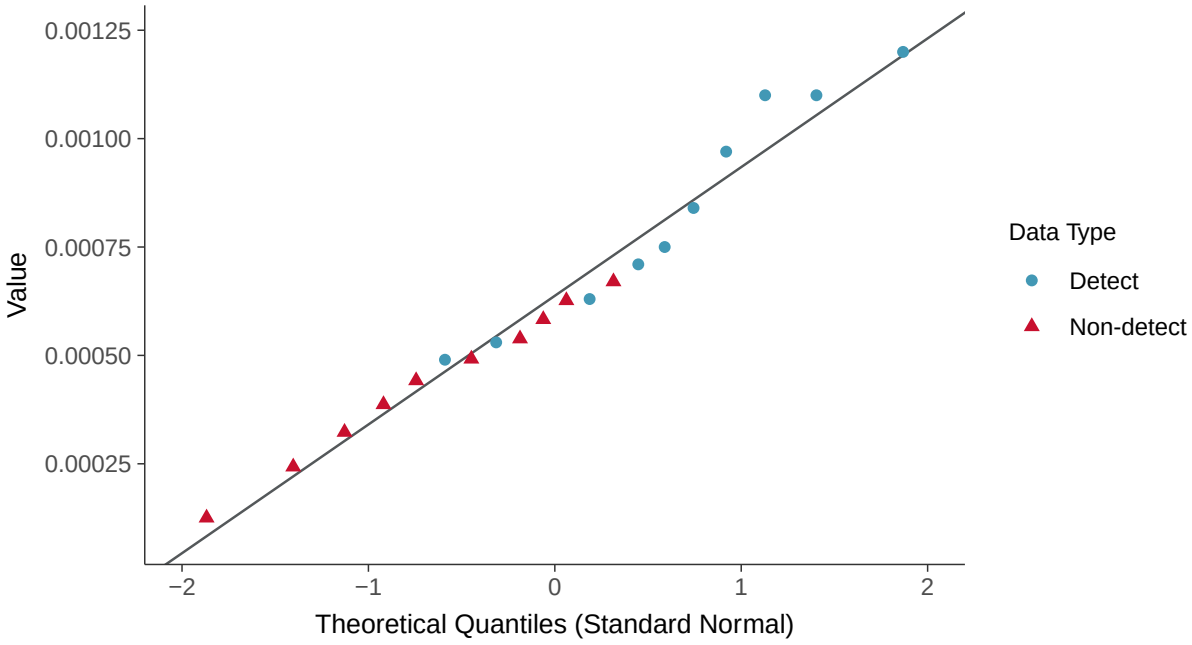
Boxplot by Season

Vanadium, MW-04 (mg/L)



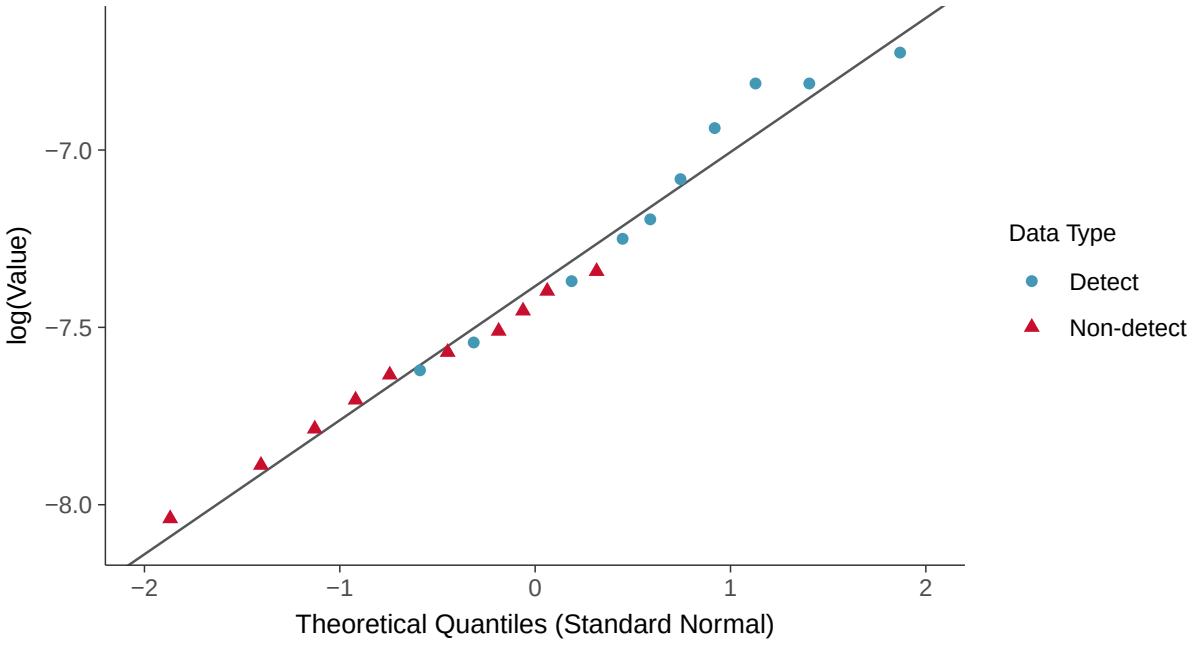
Normal Q-Q plot using ROS Imputed Estimates

Vanadium, MW-04 (mg/L)



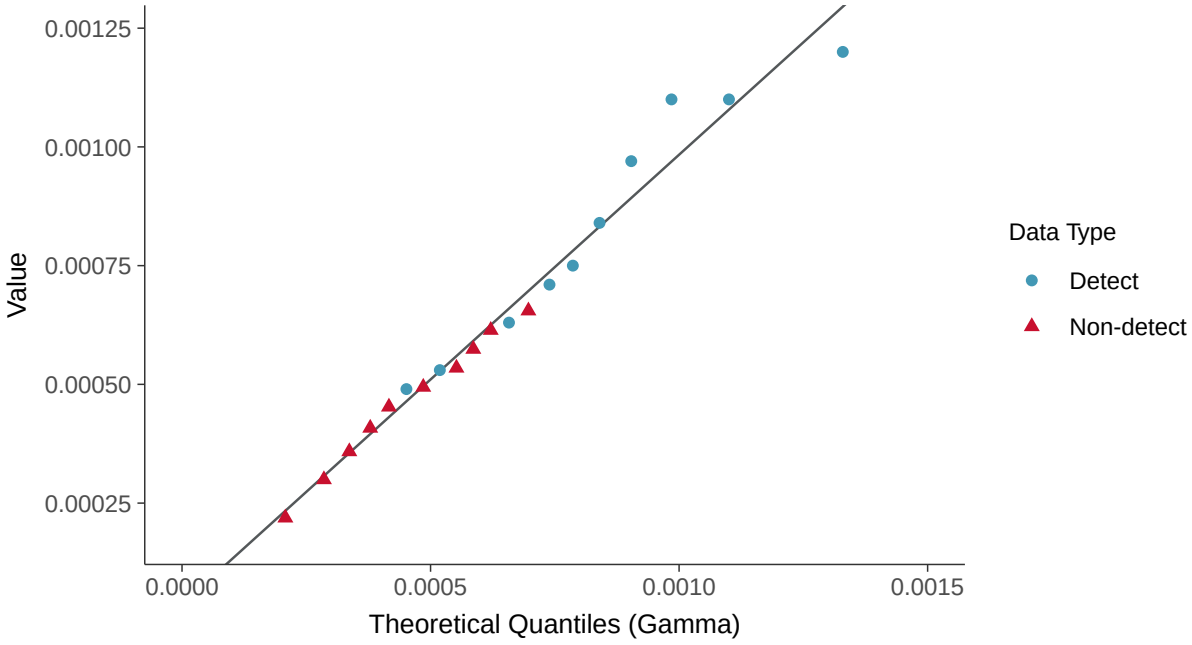
Lognormal Q-Q plot using ROS Imputed Estimates

Vanadium, MW-04 (mg/L)



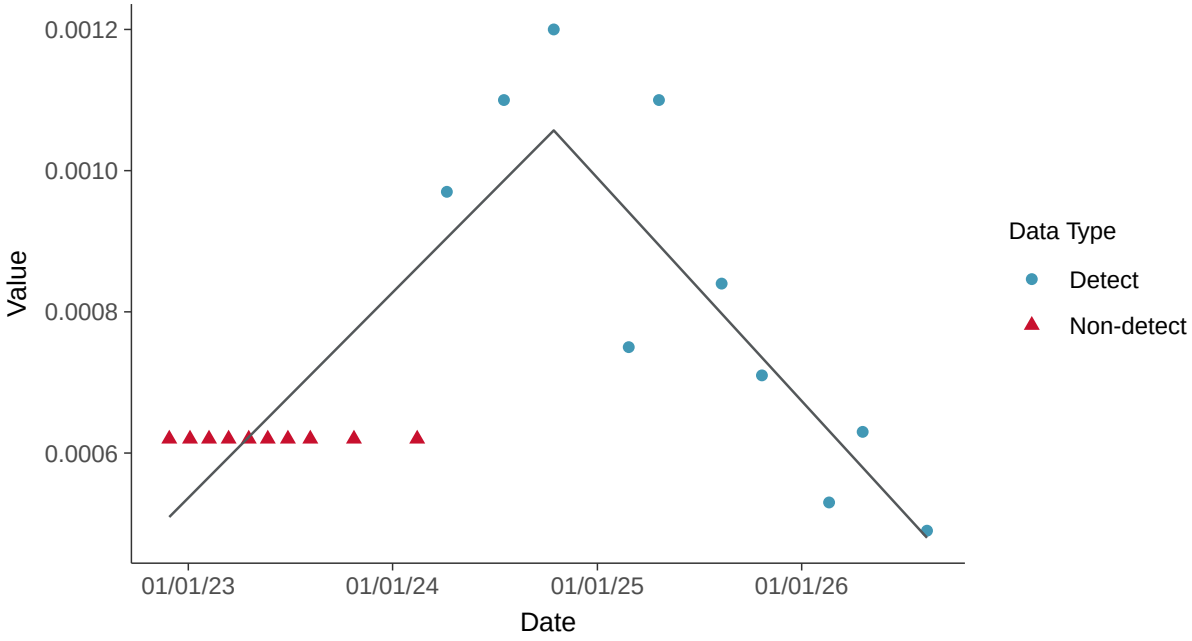
Gamma Q-Q plot using ROS Imputed Estimates

Vanadium, MW-04 (mg/L)



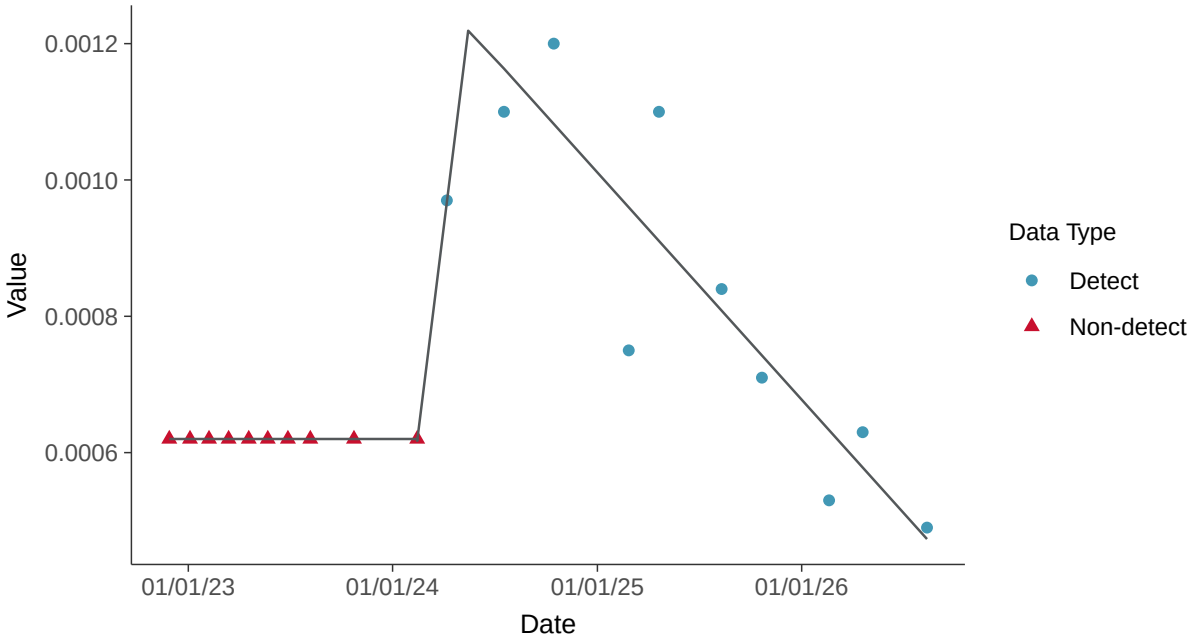
Trend Regression: Piecewise Linear-Linear

Vanadium, MW-04 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Vanadium, MW-04 (mg/L)

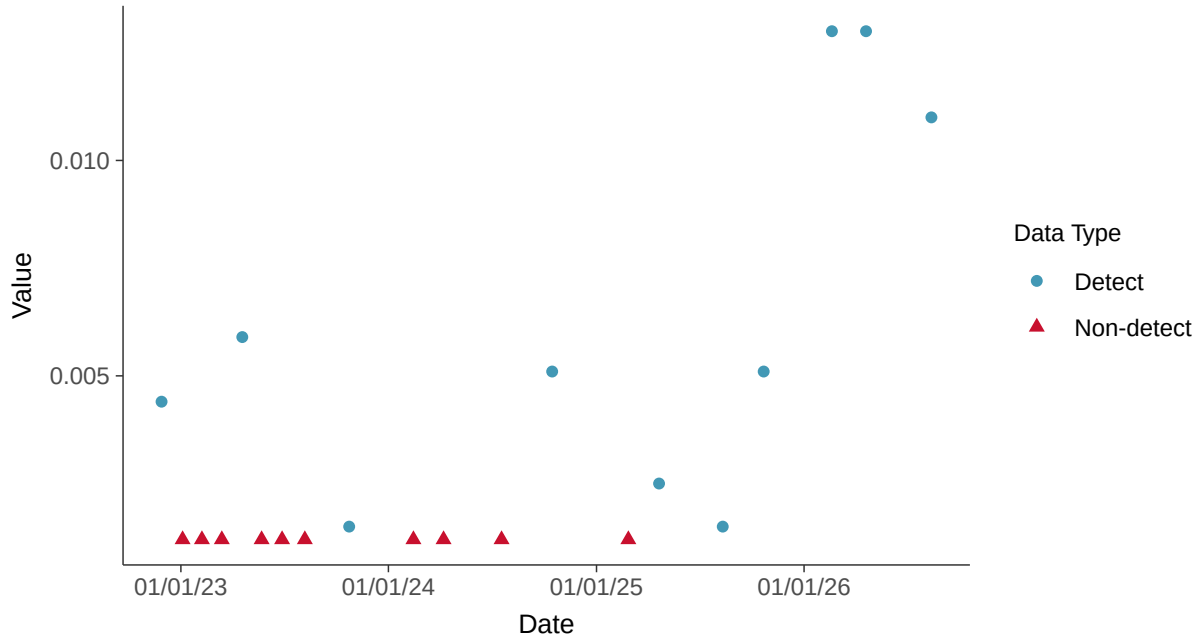


Part 115: Zinc, MW-04

ID: 14_2_5_129

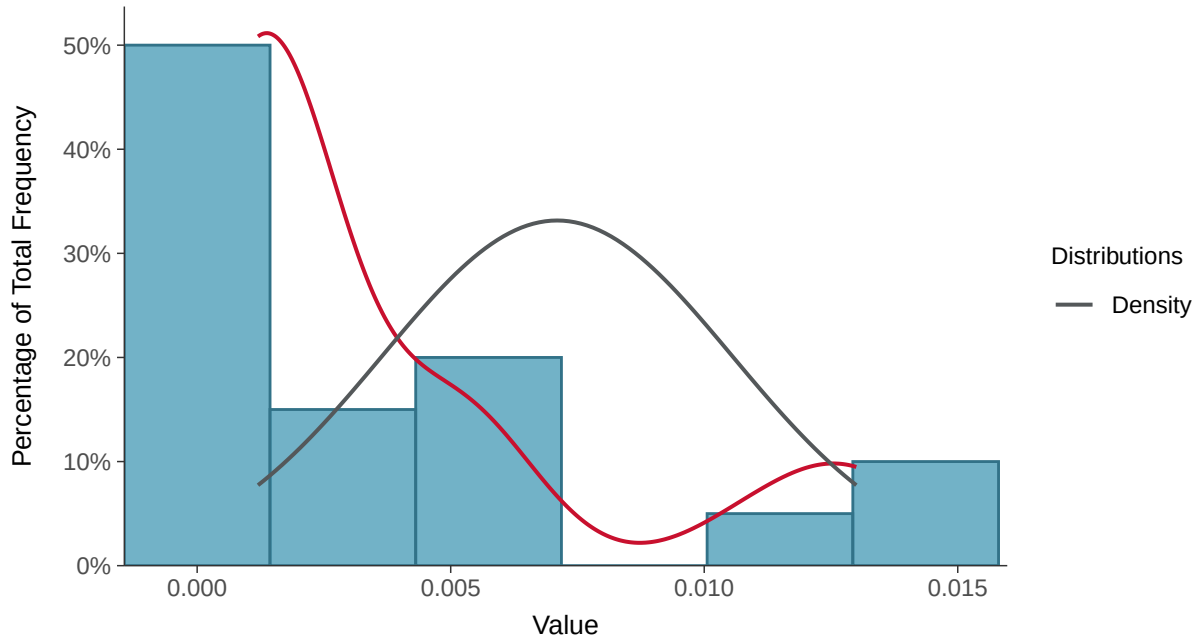
Scatter Plot

Zinc, MW-04 (mg/L)



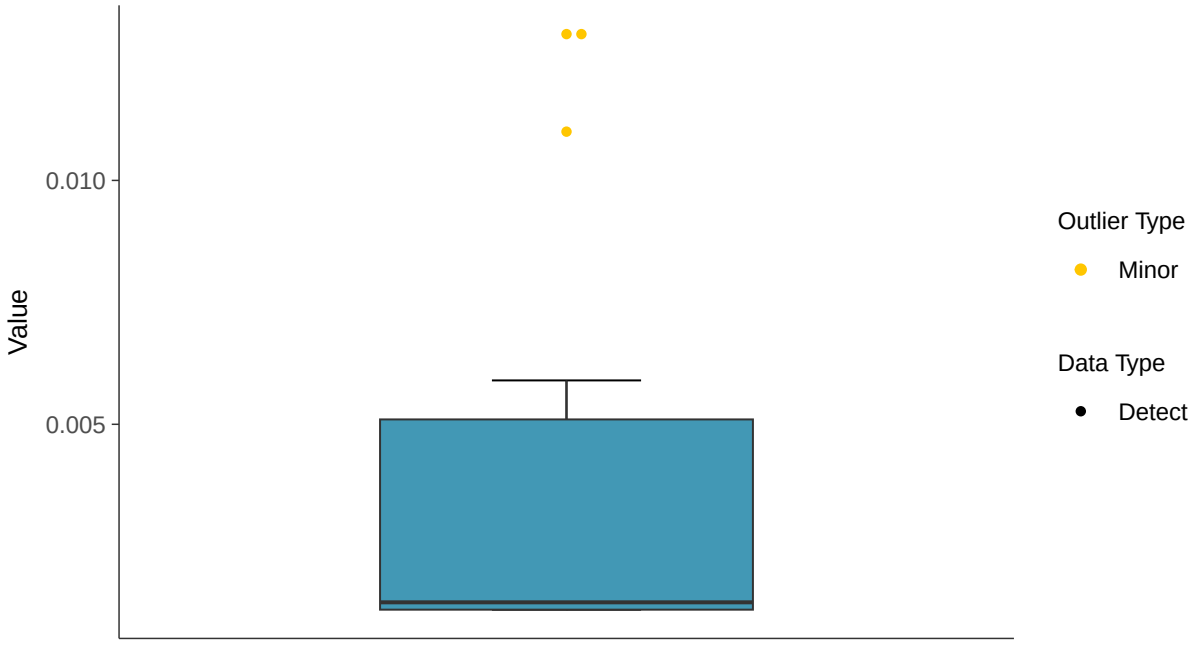
Histogram

Zinc, MW-04 (mg/L)



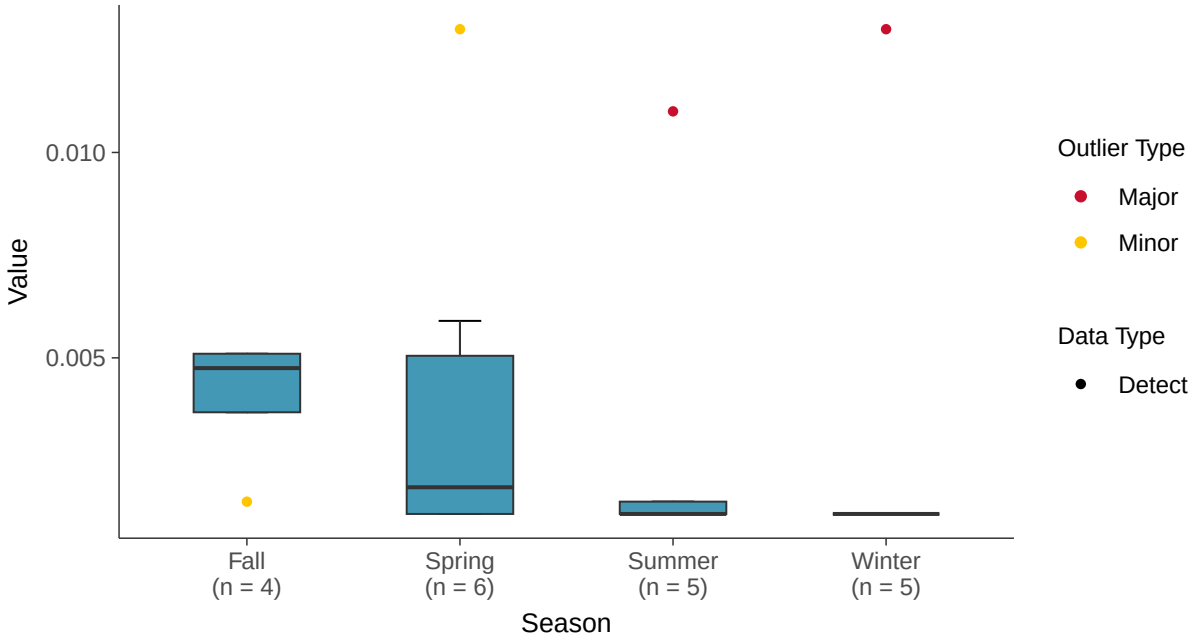
Boxplot

Zinc, MW-04 (mg/L)



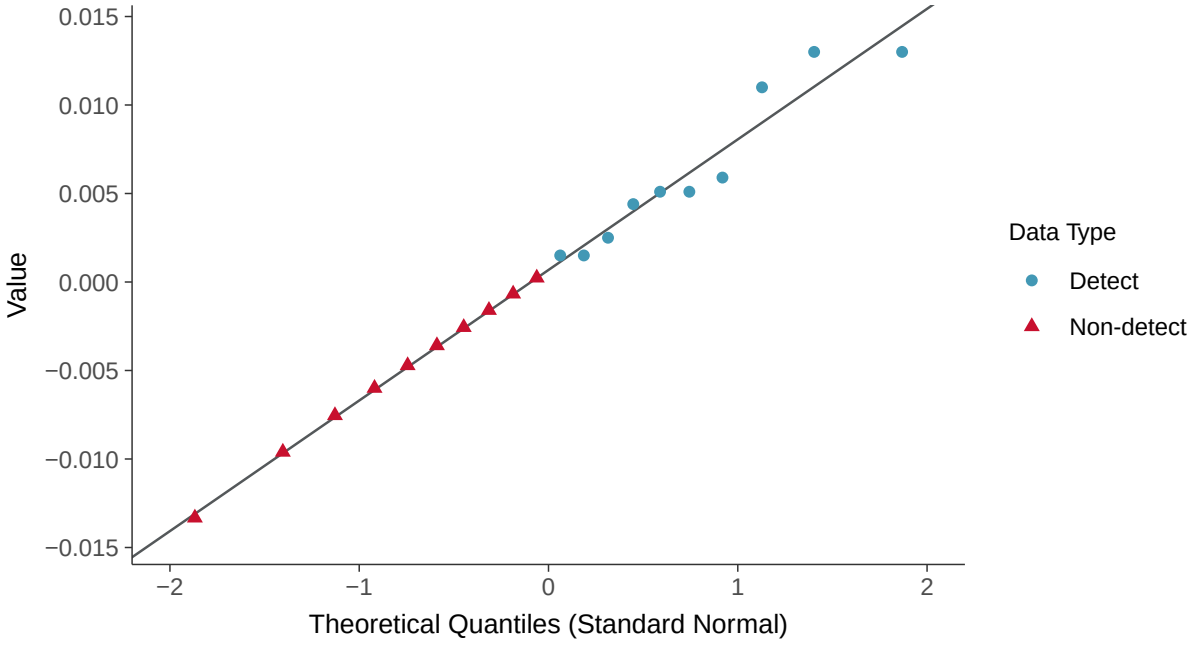
Boxplot by Season

Zinc, MW-04 (mg/L)



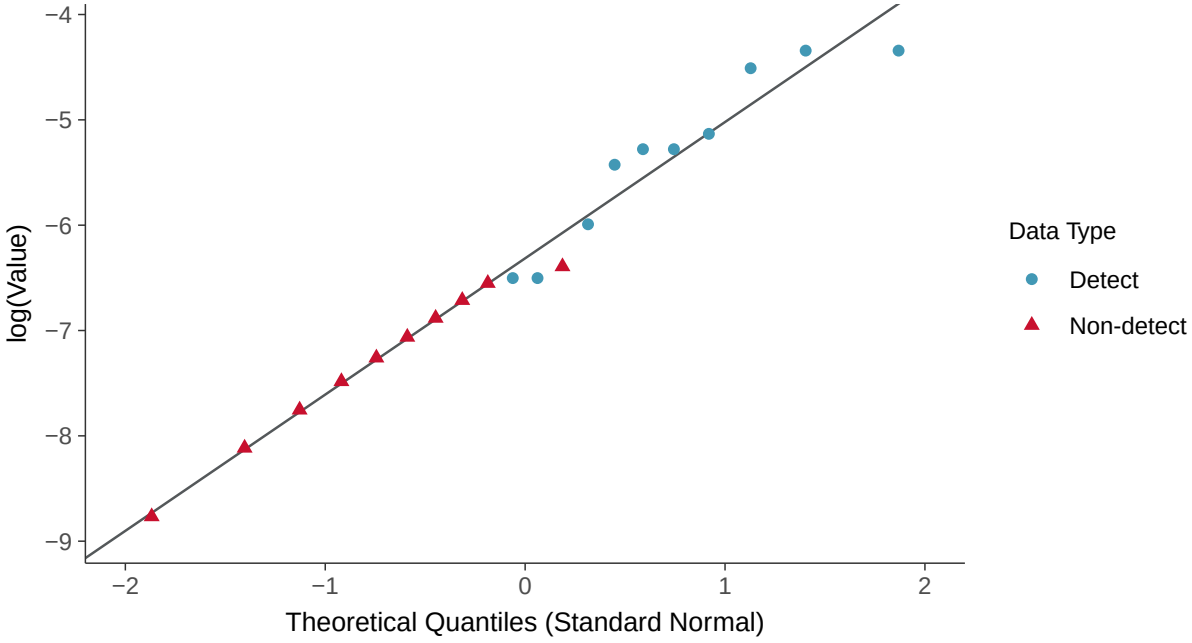
Normal Q-Q plot using ROS Imputed Estimates

Zinc, MW-04 (mg/L)



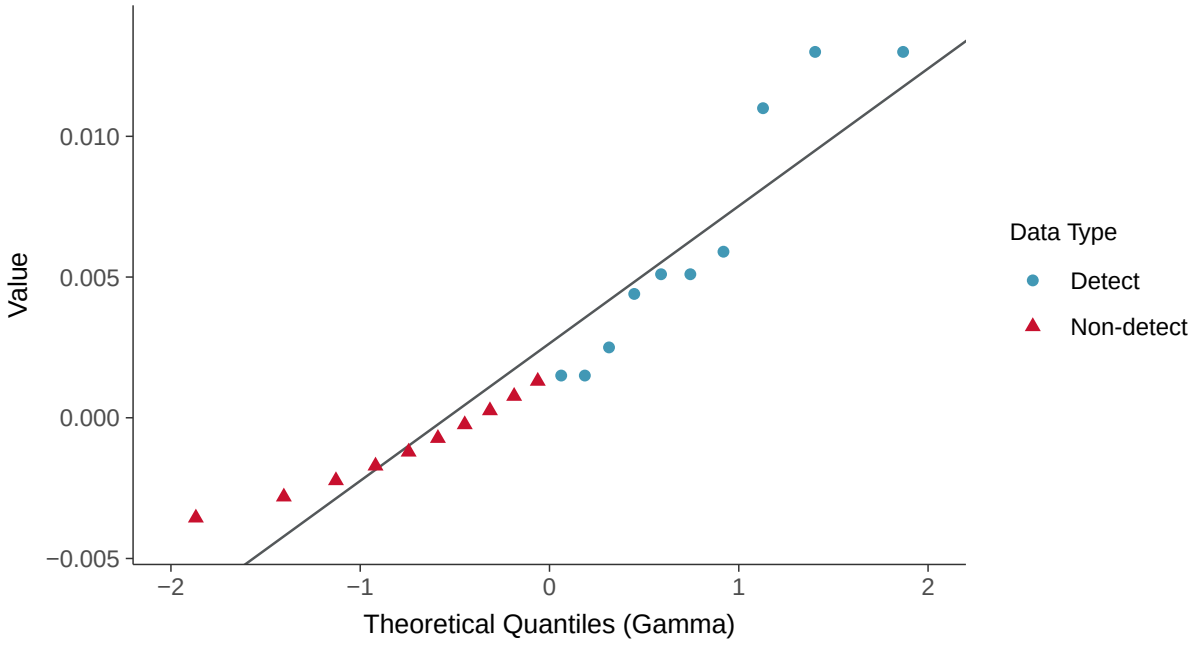
Lognormal Q-Q plot using ROS Imputed Estimates

Zinc, MW-04 (mg/L)



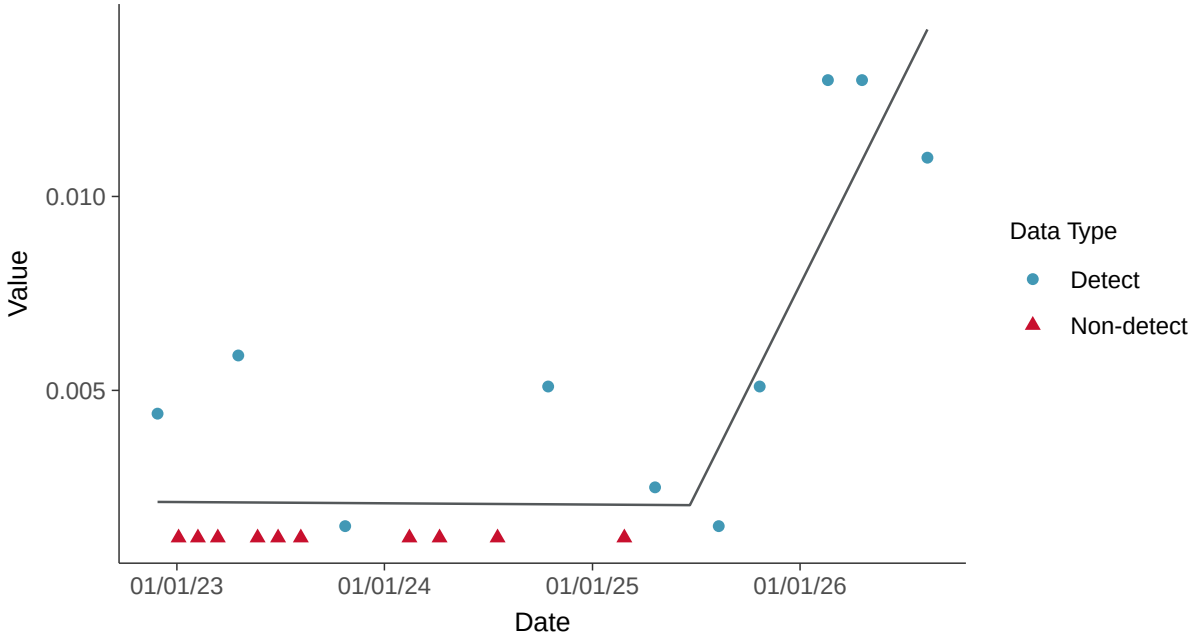
Gamma Q-Q plot using ROS Imputed Estimates

Zinc, MW-04 (mg/L)



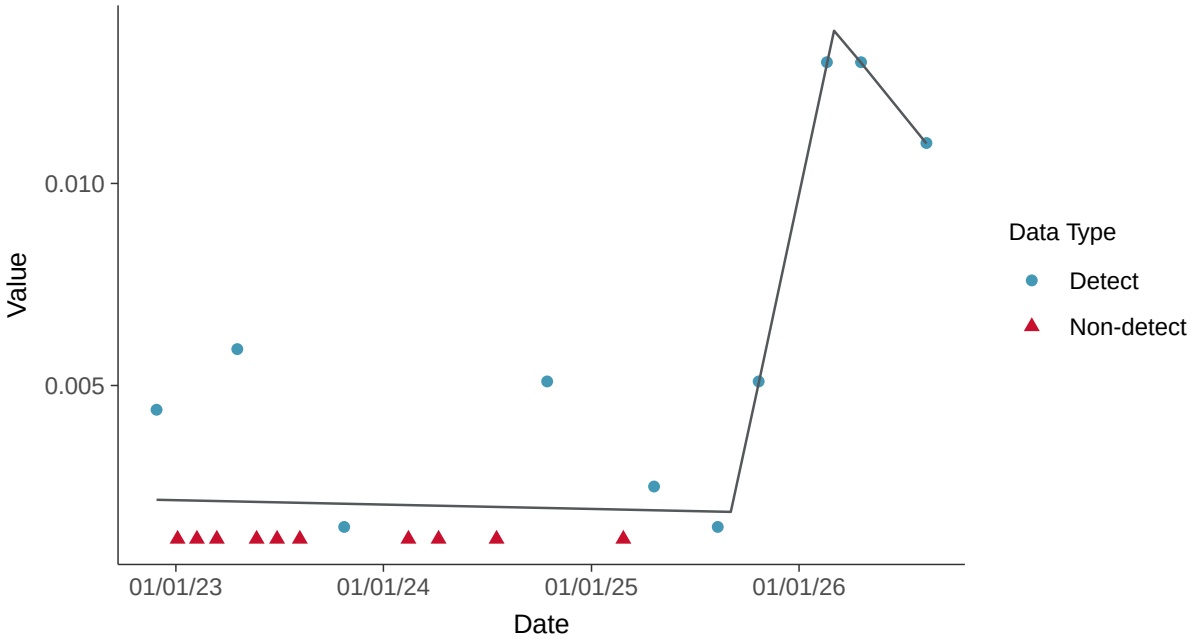
Trend Regression: Piecewise Linear-Linear

Zinc, MW-04 (mg/L)



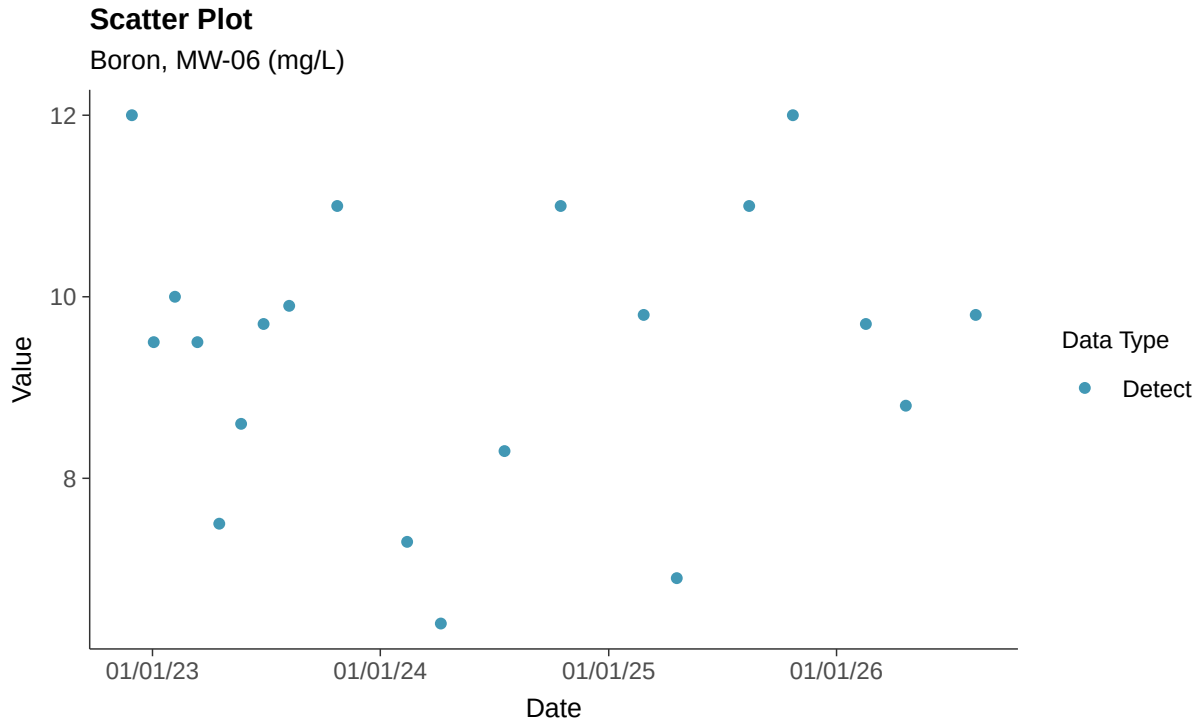
Trend Regression: Piecewise Linear-Linear-Linear

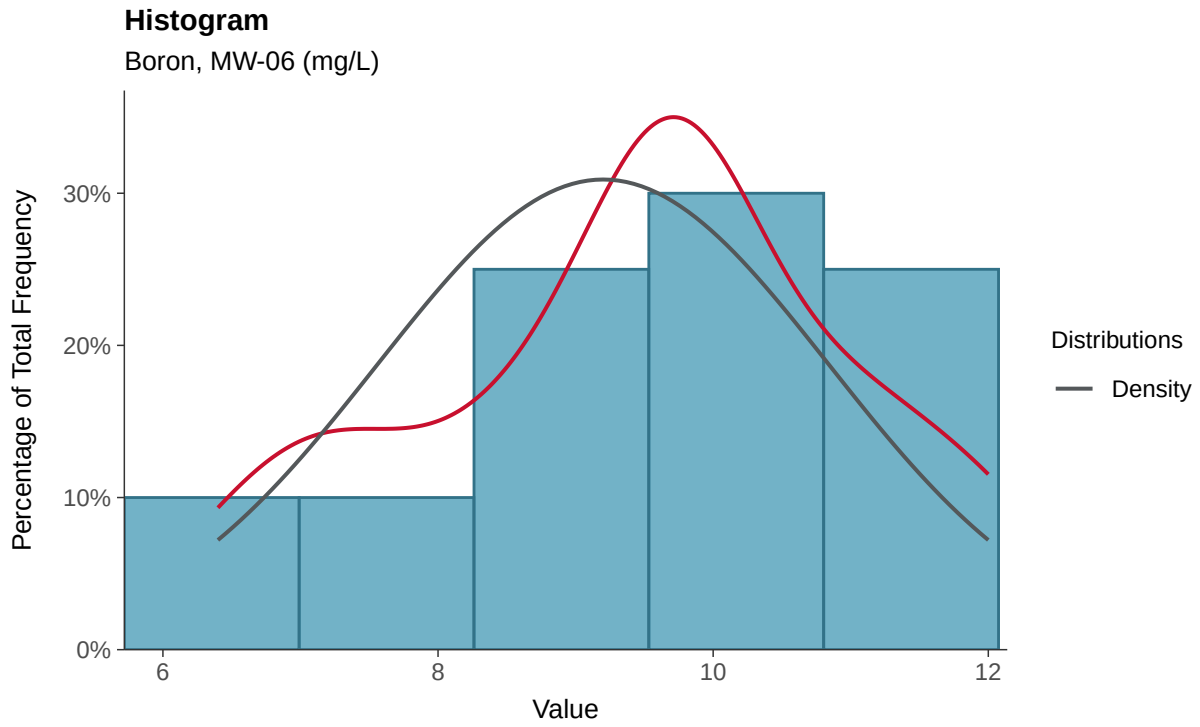
Zinc, MW-04 (mg/L)



Appendix III: Boron, MW-06

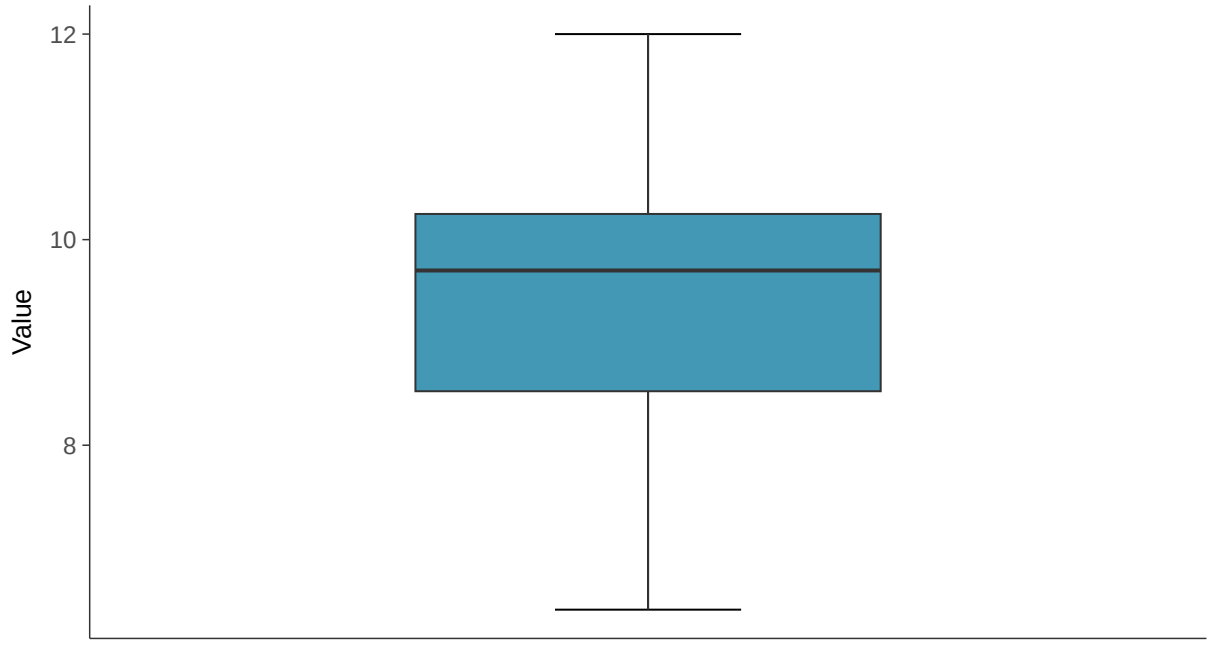
ID: 16_1_3_105





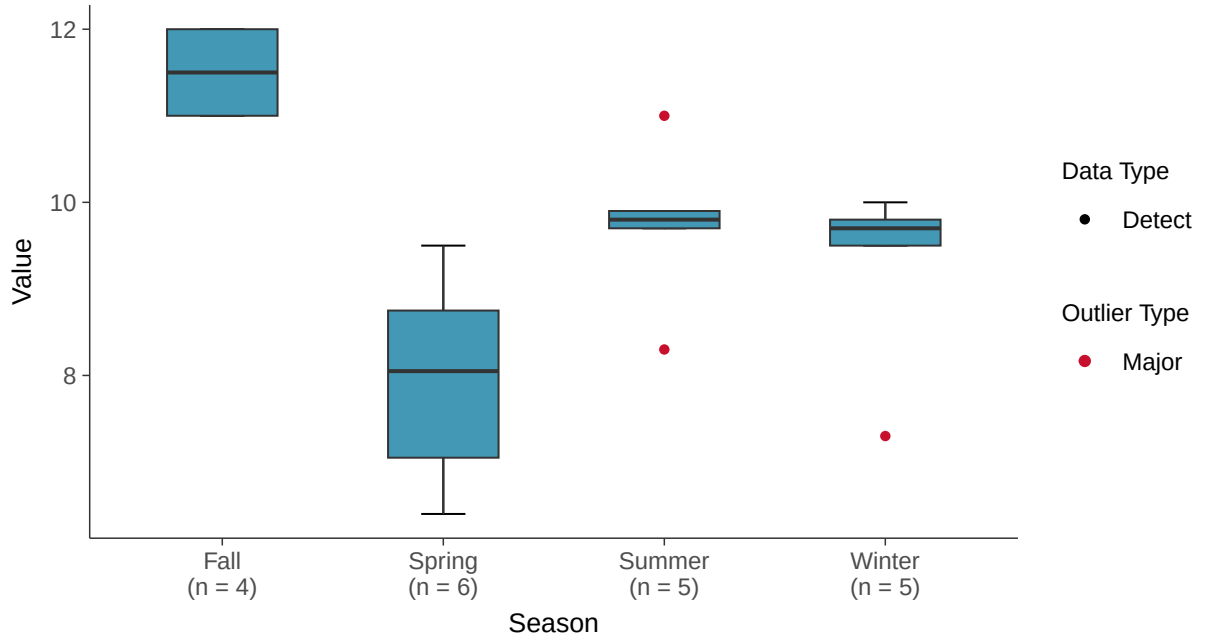
Boxplot

Boron, MW-06 (mg/L)



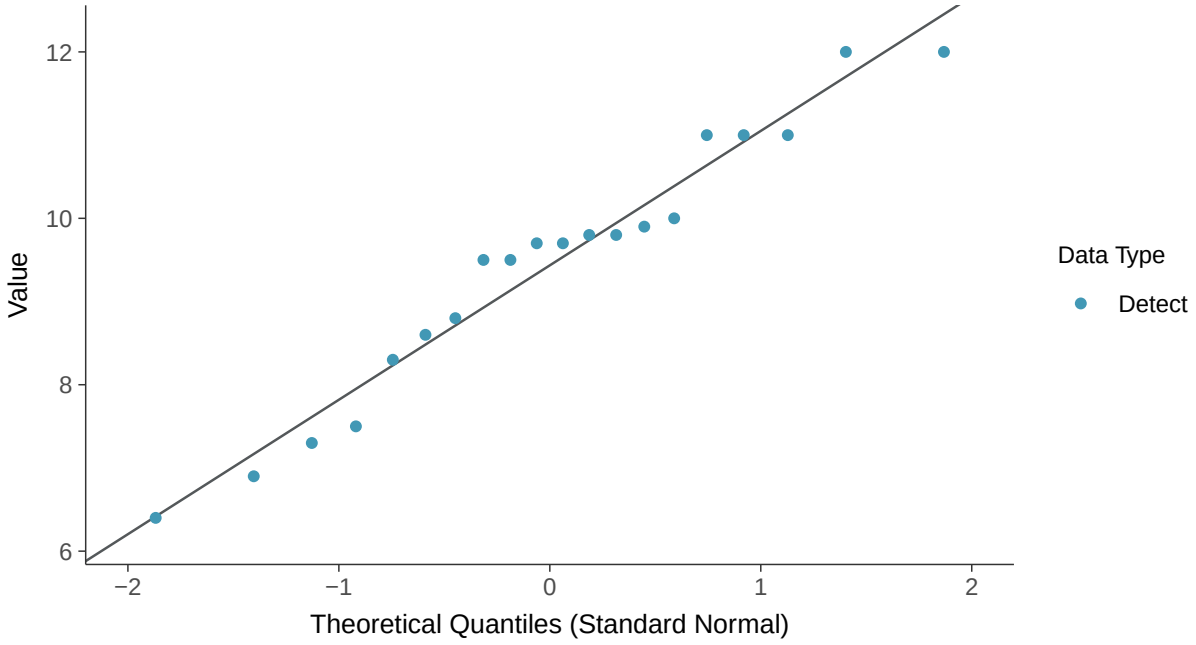
Boxplot by Season

Boron, MW-06 (mg/L)



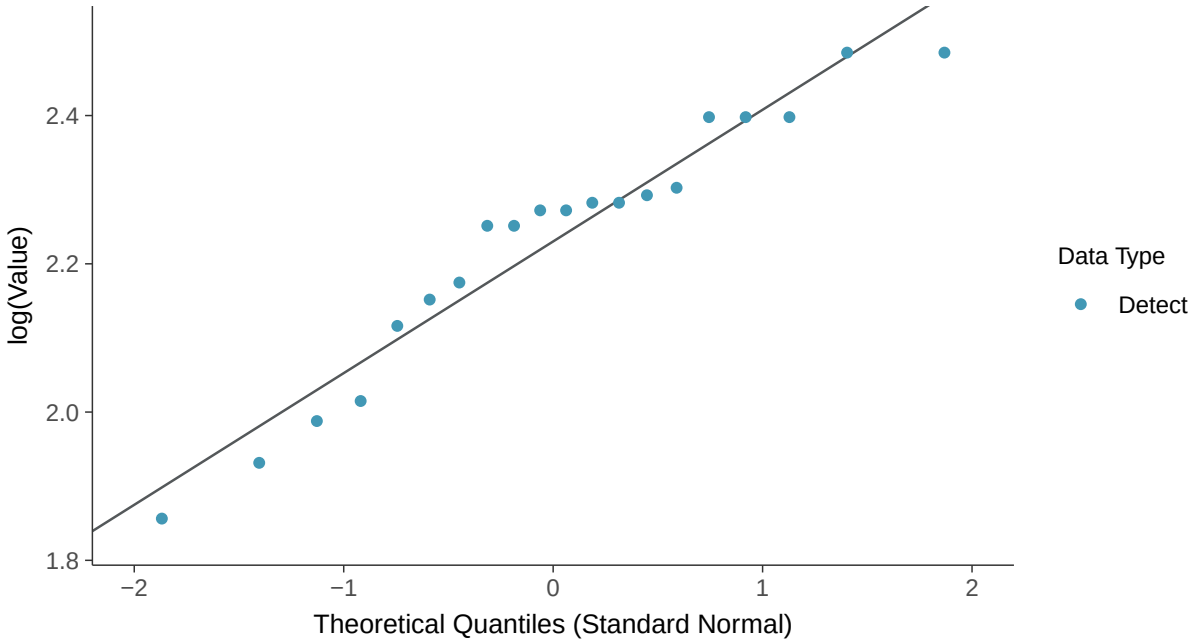
Normal Q-Q plot

Boron, MW-06 (mg/L)



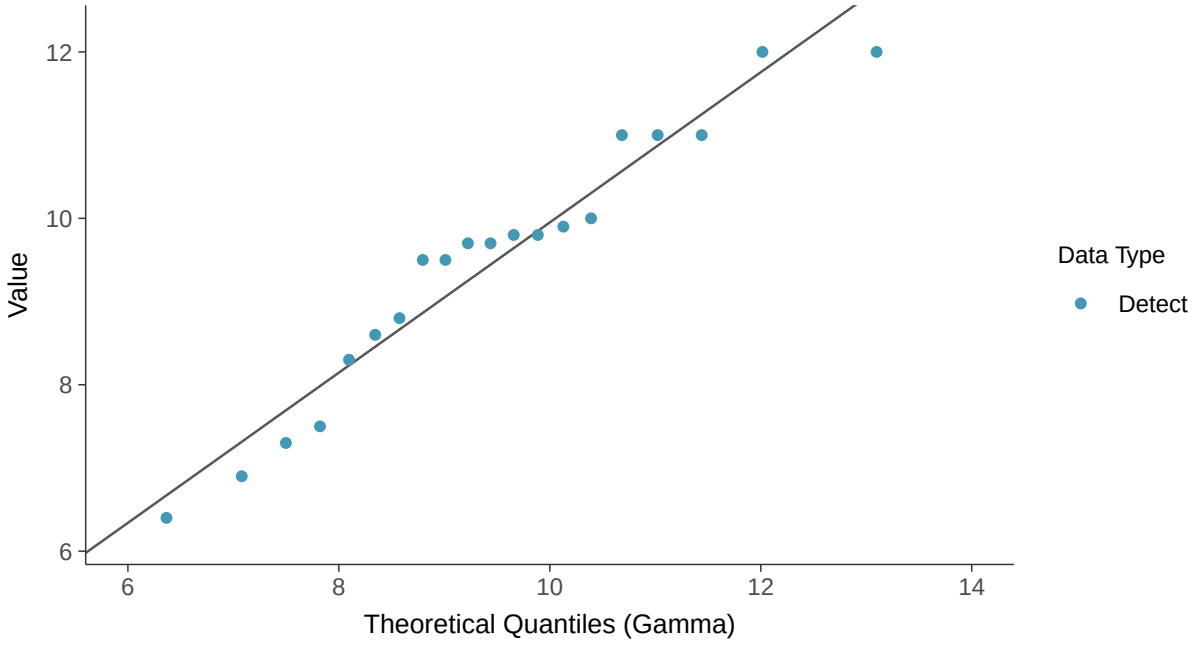
Lognormal Q-Q plot

Boron, MW-06 (mg/L)



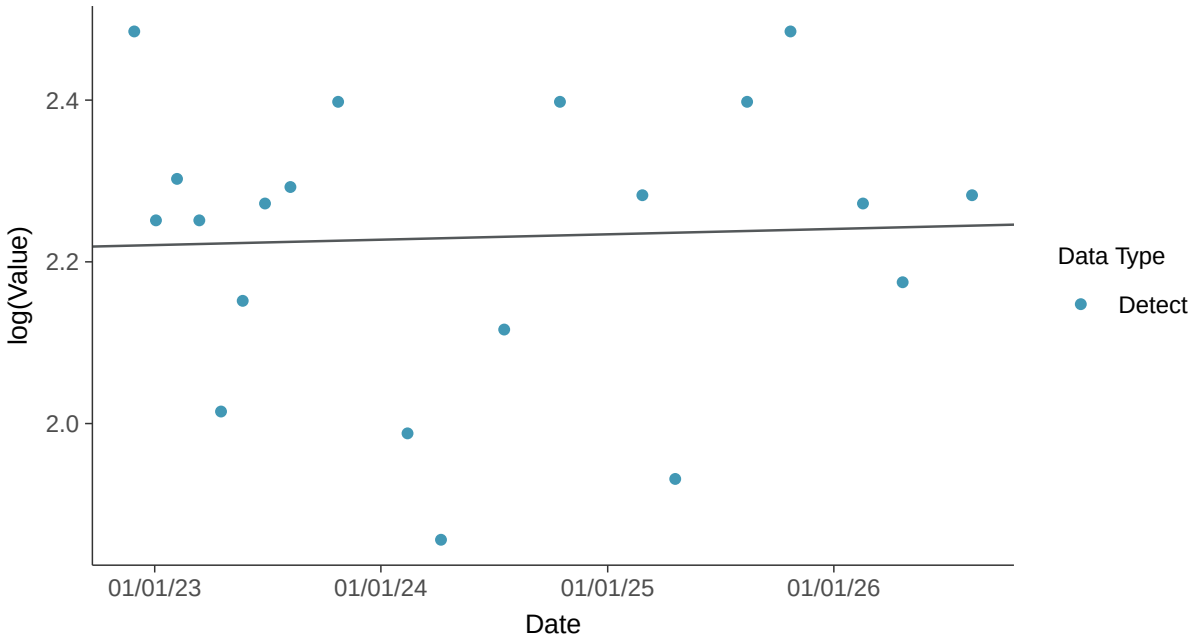
Gamma Q-Q plot

Boron, MW-06 (mg/L)



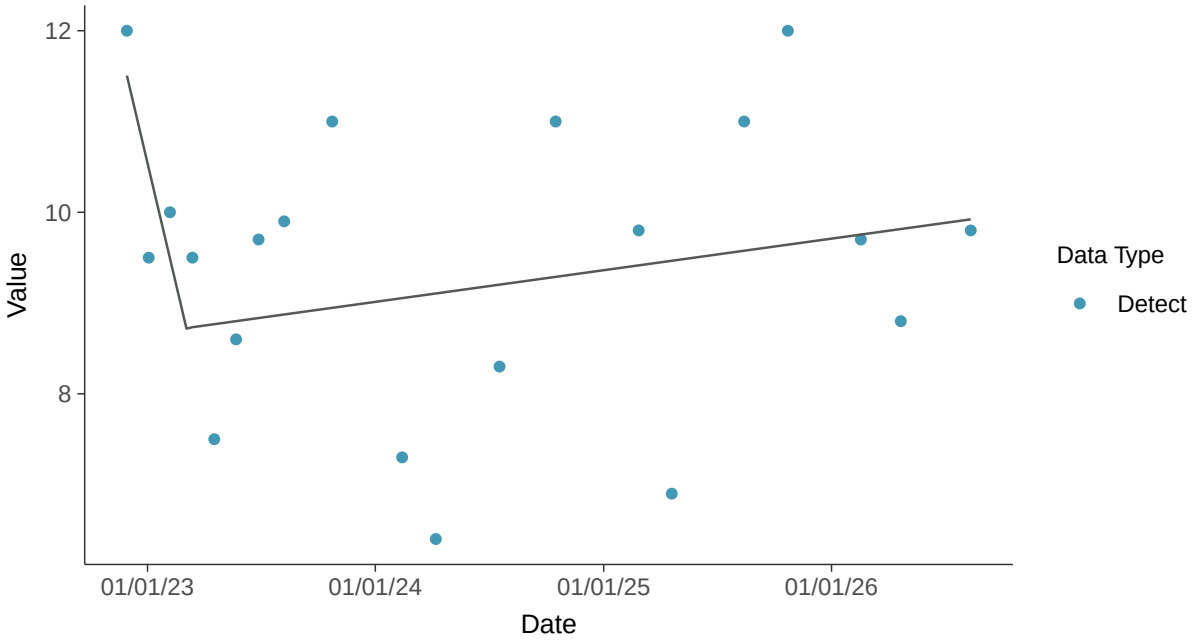
Trend Regression: Lognormal MLE

Boron, MW-06 (mg/L)



Trend Regression: Piecewise Linear-Linear

Boron, MW-06 (mg/L)

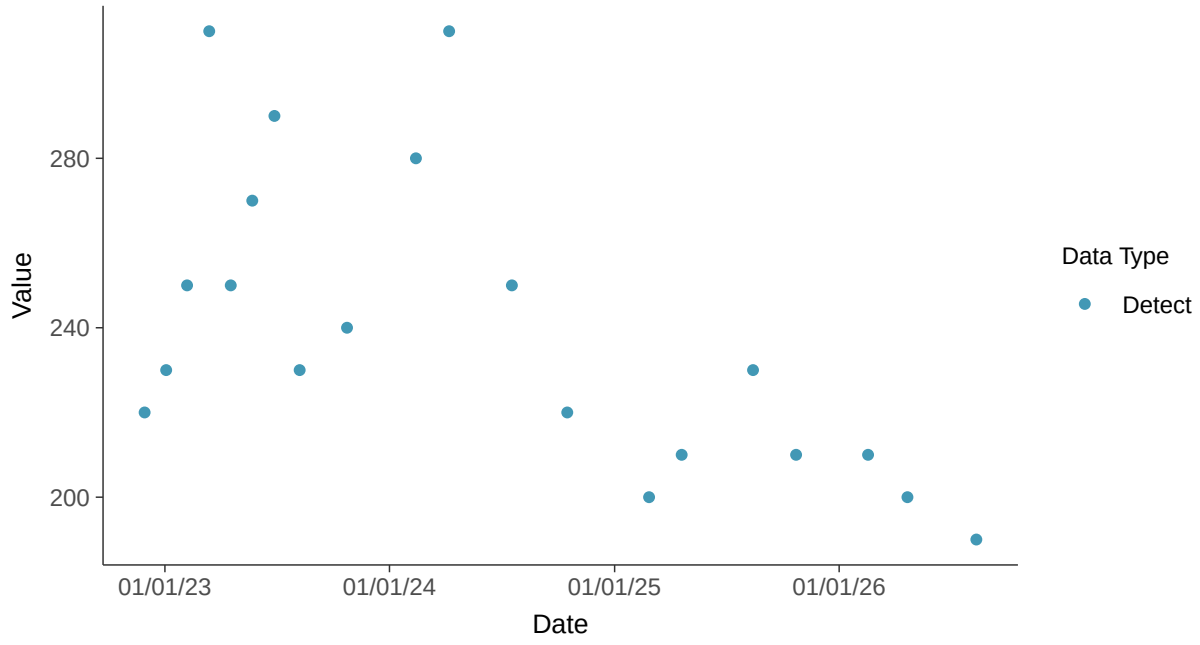


Appendix III: Calcium, MW-06

ID: 16_1_3_107

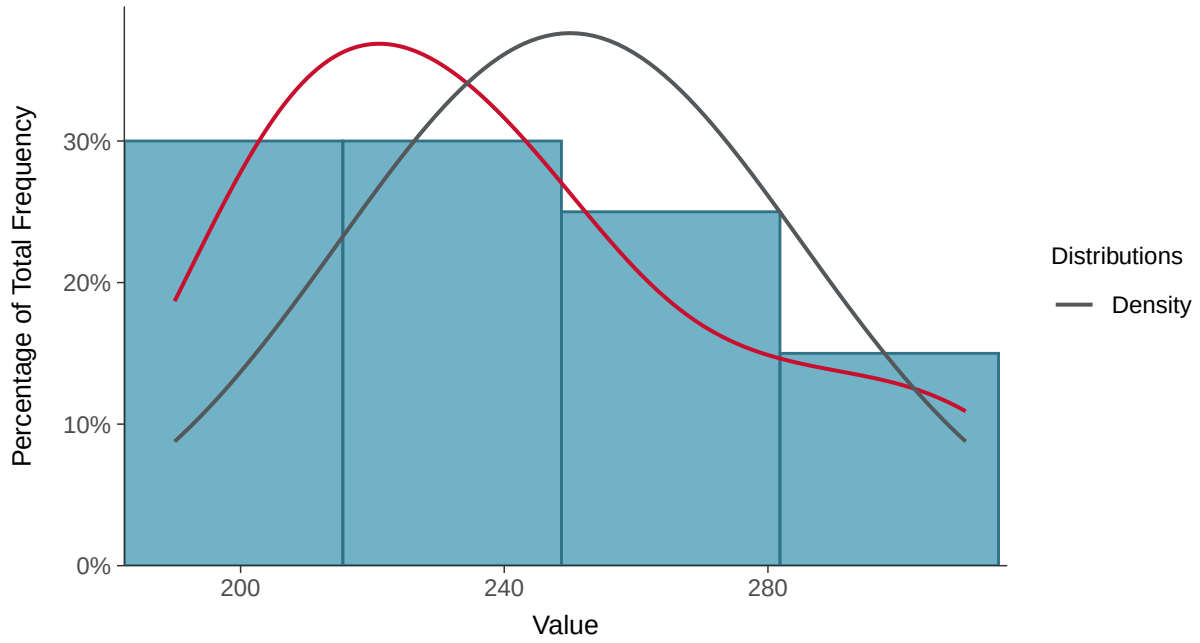
Scatter Plot

Calcium, MW-06 (mg/L)



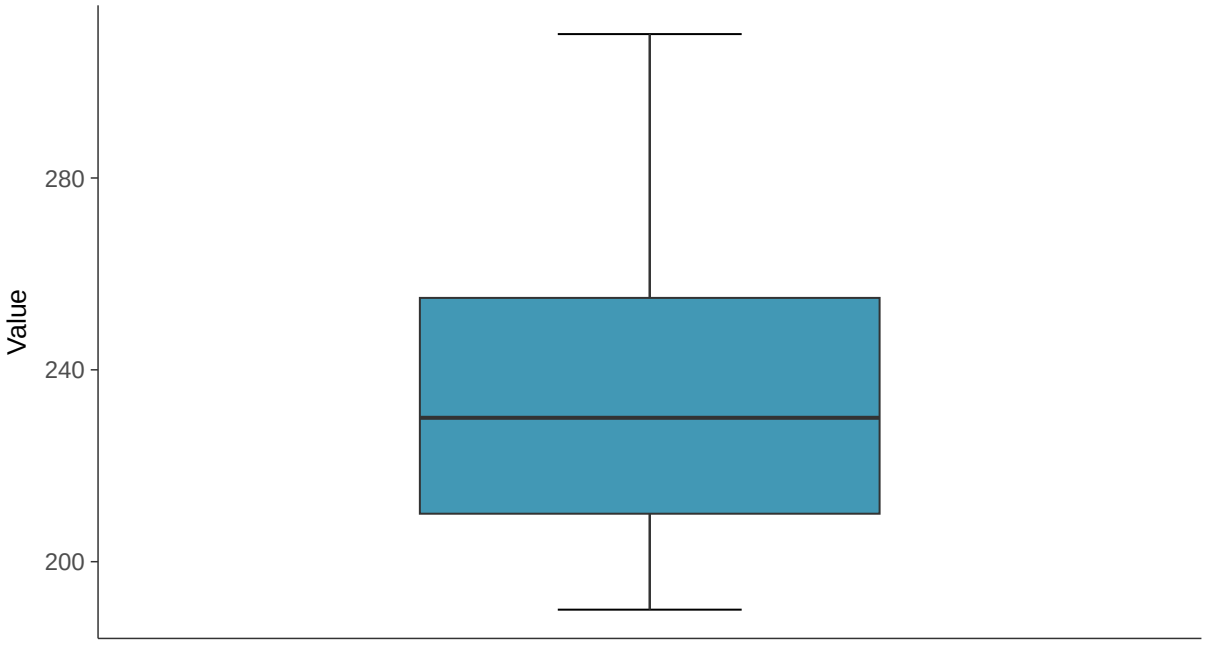
Histogram

Calcium, MW-06 (mg/L)



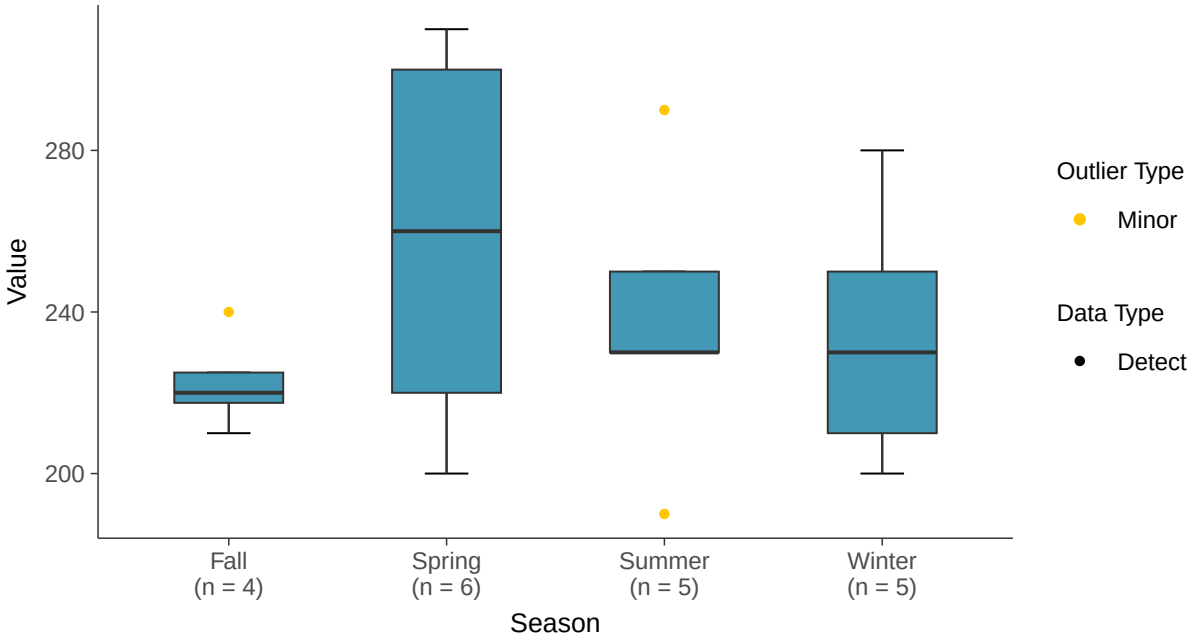
Boxplot

Calcium, MW-06 (mg/L)



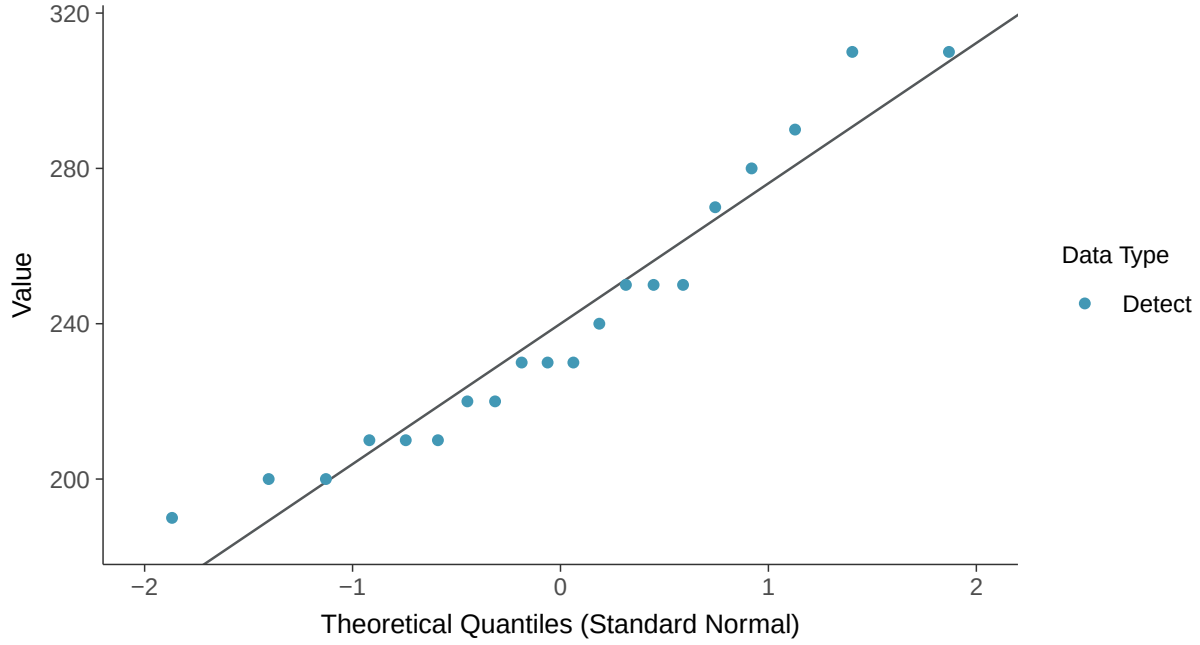
Boxplot by Season

Calcium, MW-06 (mg/L)



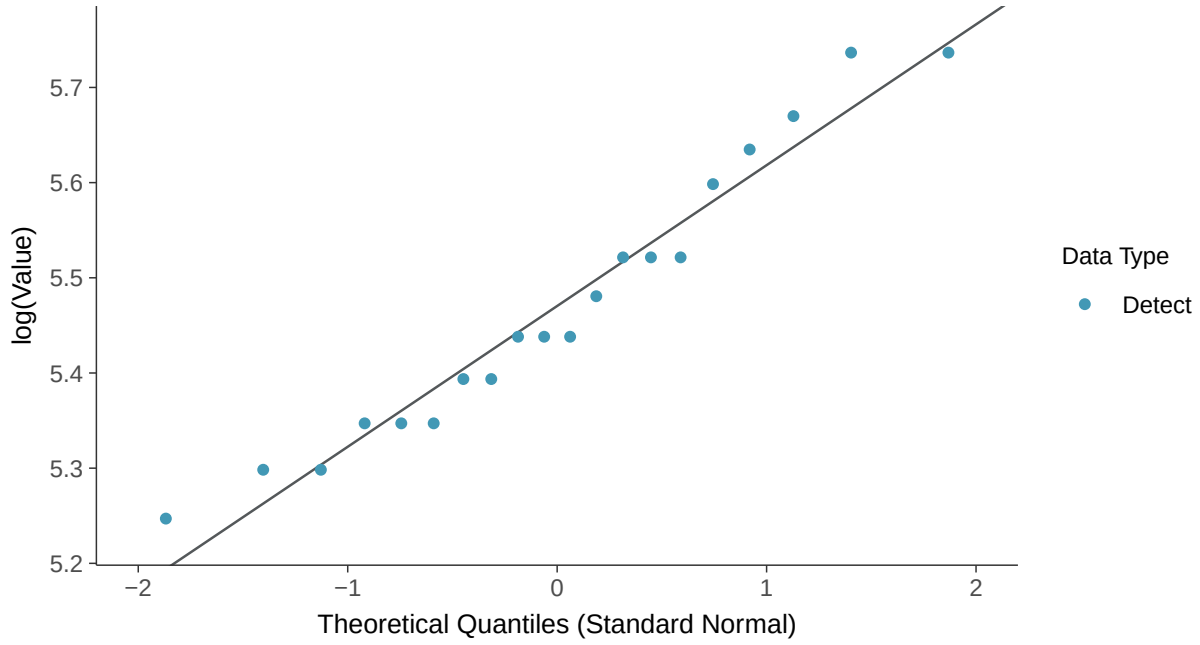
Normal Q-Q plot

Calcium, MW-06 (mg/L)



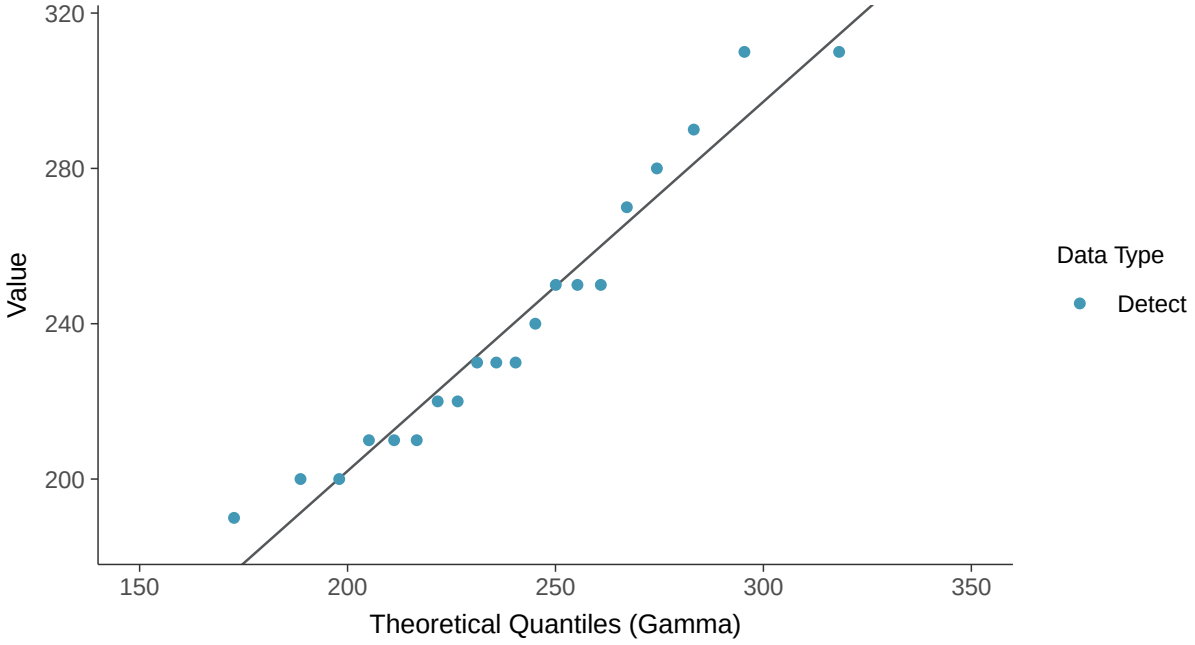
Lognormal Q-Q plot

Calcium, MW-06 (mg/L)



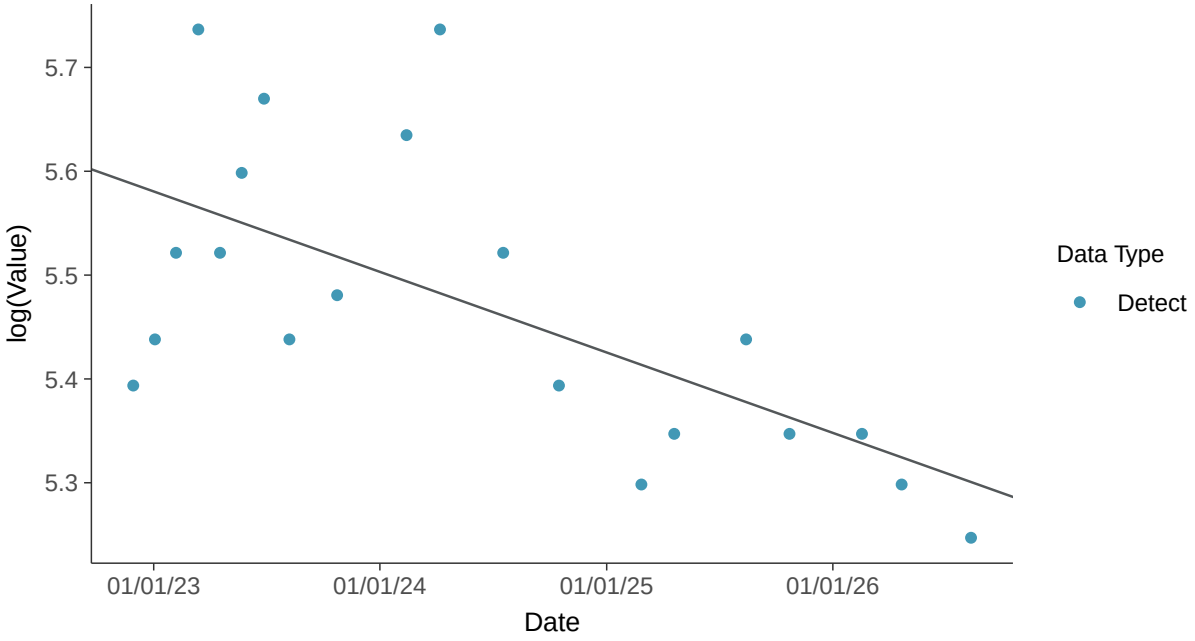
Gamma Q-Q plot

Calcium, MW-06 (mg/L)



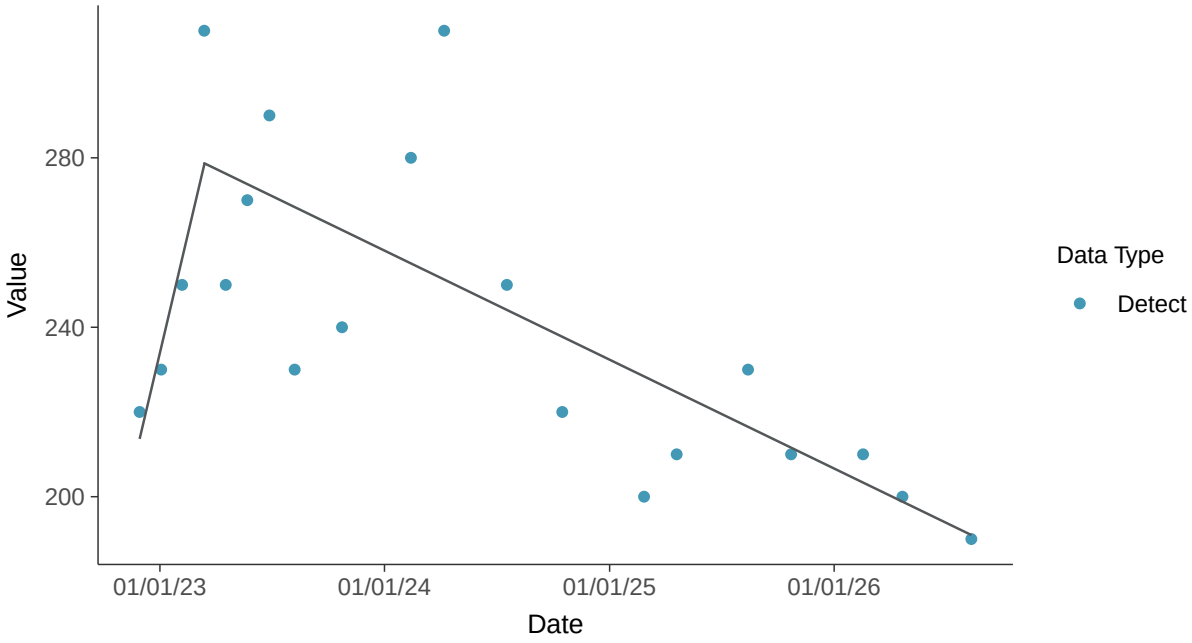
Trend Regression: Lognormal MLE

Calcium, MW-06 (mg/L)



Trend Regression: Piecewise Linear-Linear

Calcium, MW-06 (mg/L)

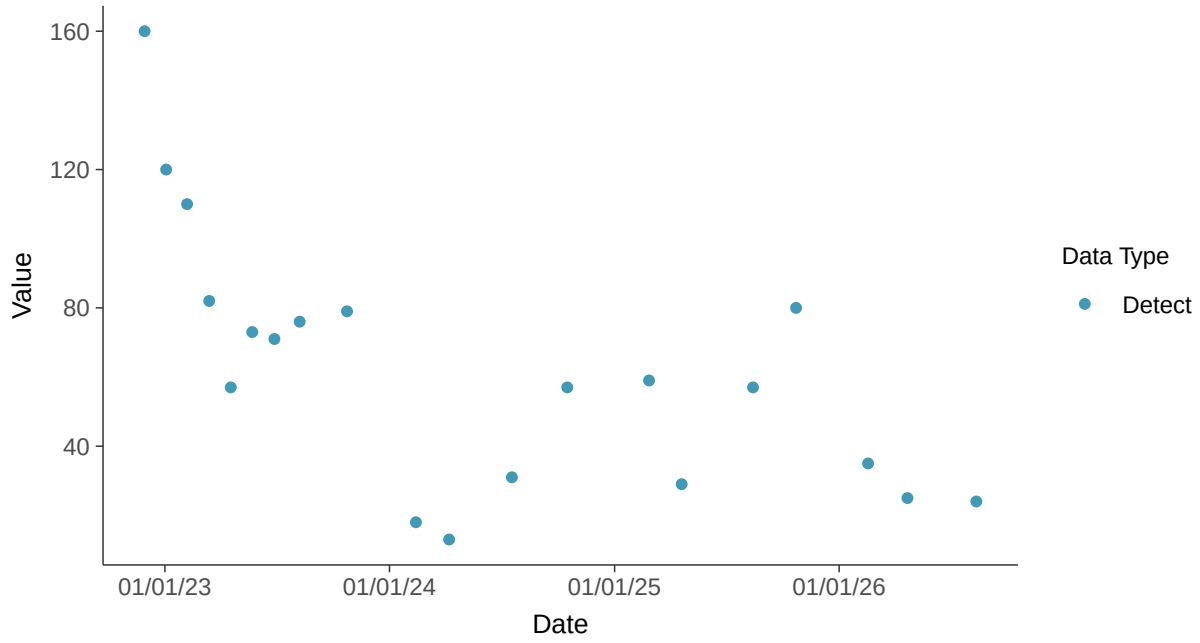


Appendix III: Chloride (as Cl), MW-06

ID: 16_1_3_108

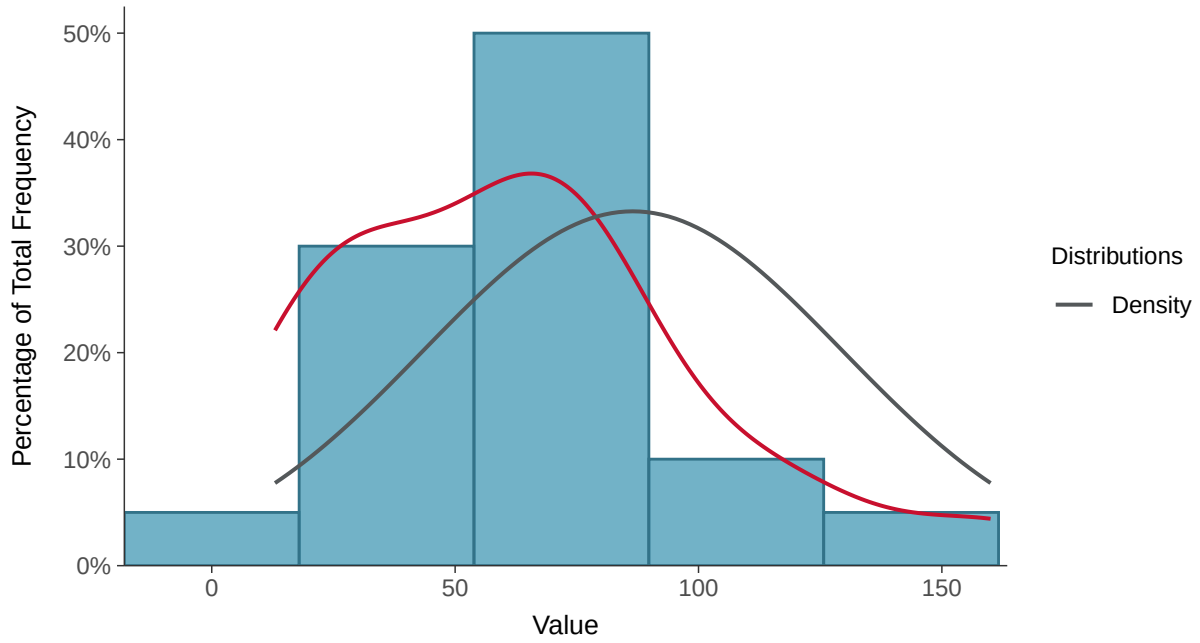
Scatter Plot

Chloride (as Cl), MW-06 (mg/L)



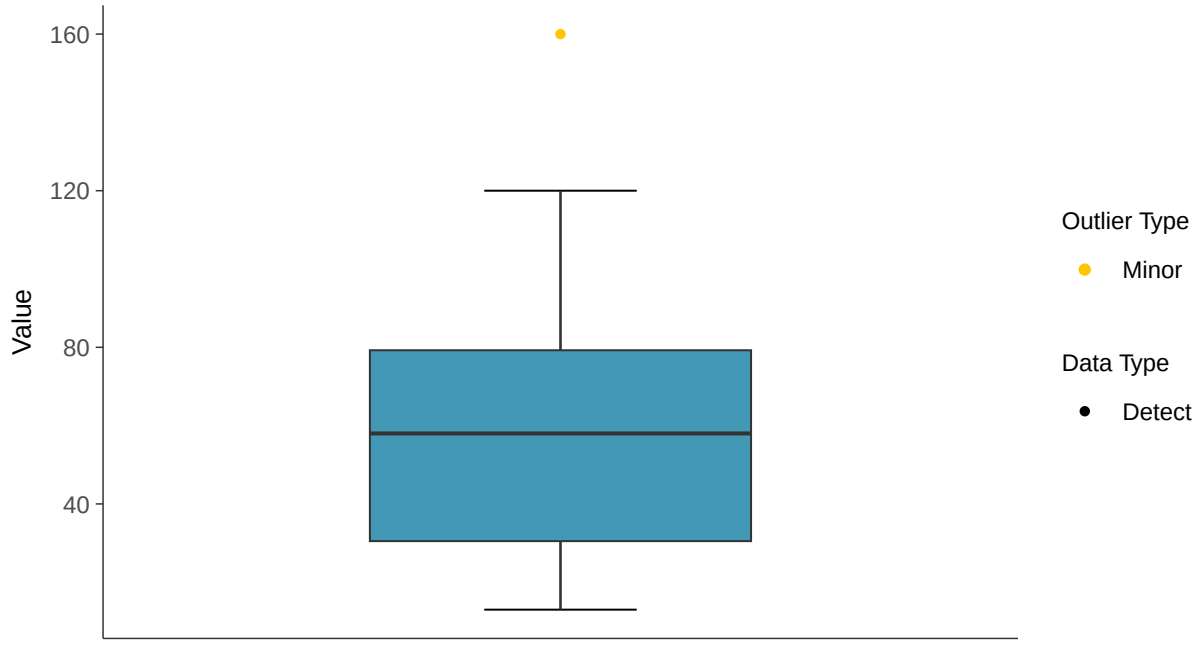
Histogram

Chloride (as Cl), MW-06 (mg/L)



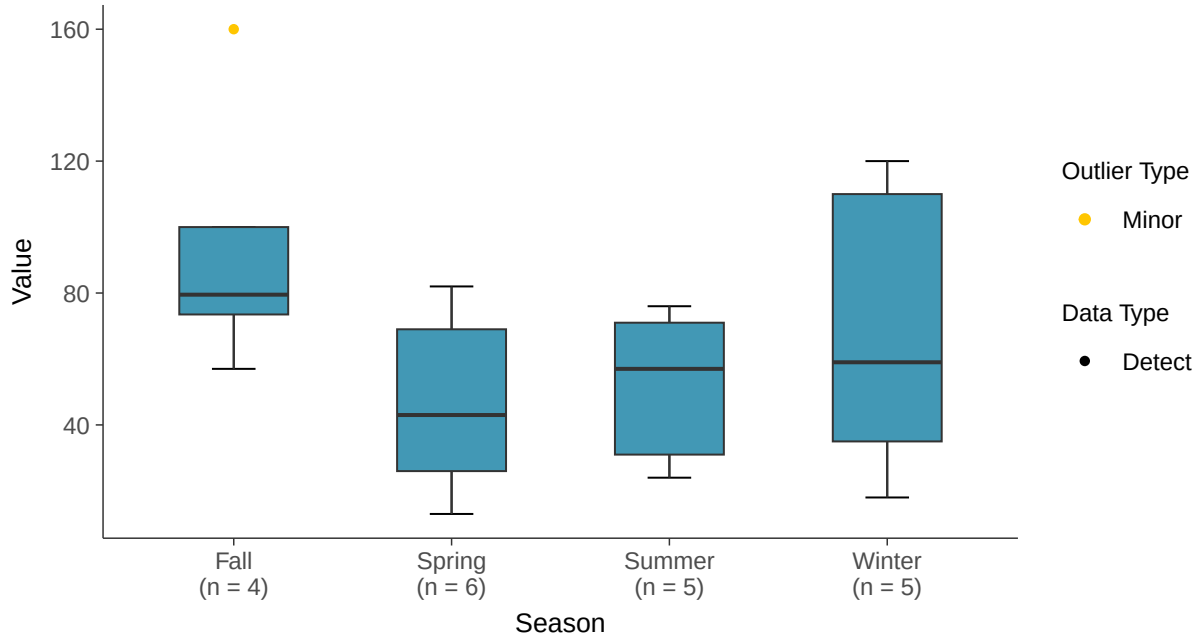
Boxplot

Chloride (as Cl), MW-06 (mg/L)



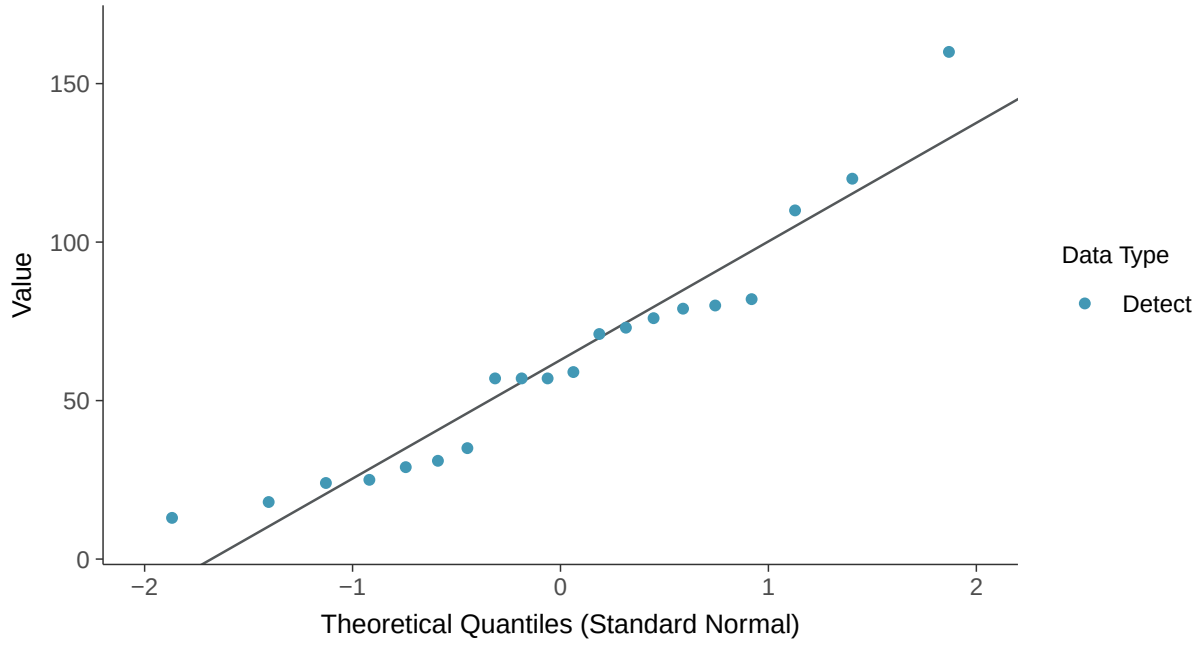
Boxplot by Season

Chloride (as Cl), MW-06 (mg/L)



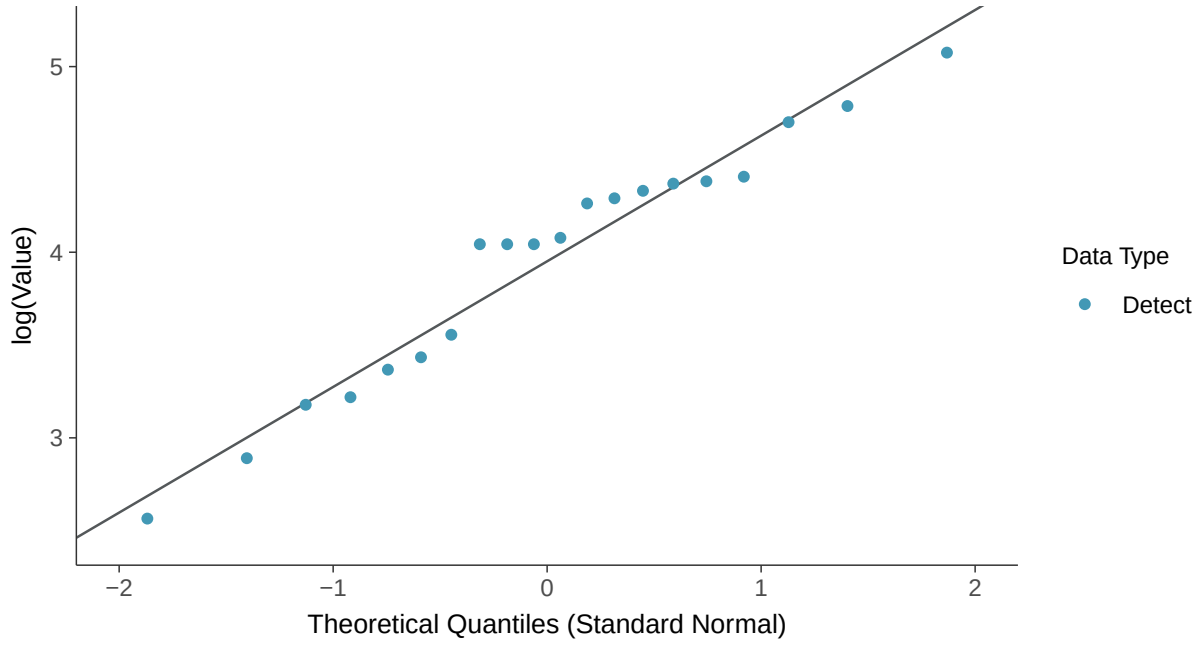
Normal Q-Q plot

Chloride (as Cl), MW-06 (mg/L)



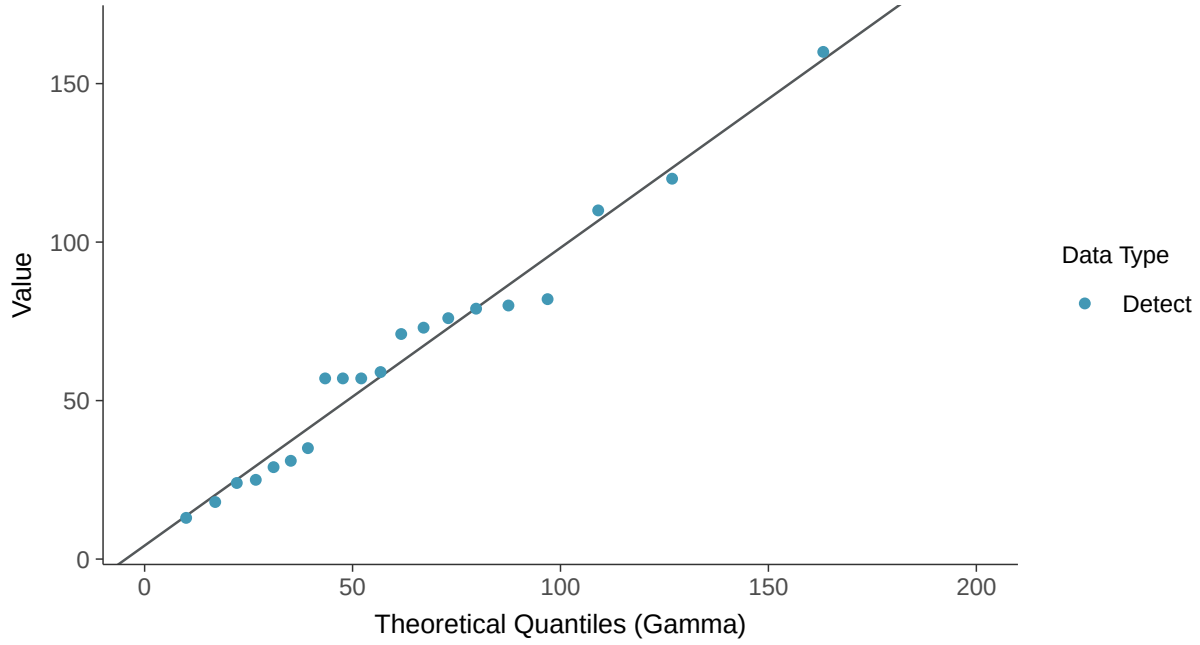
Lognormal Q-Q plot

Chloride (as Cl), MW-06 (mg/L)



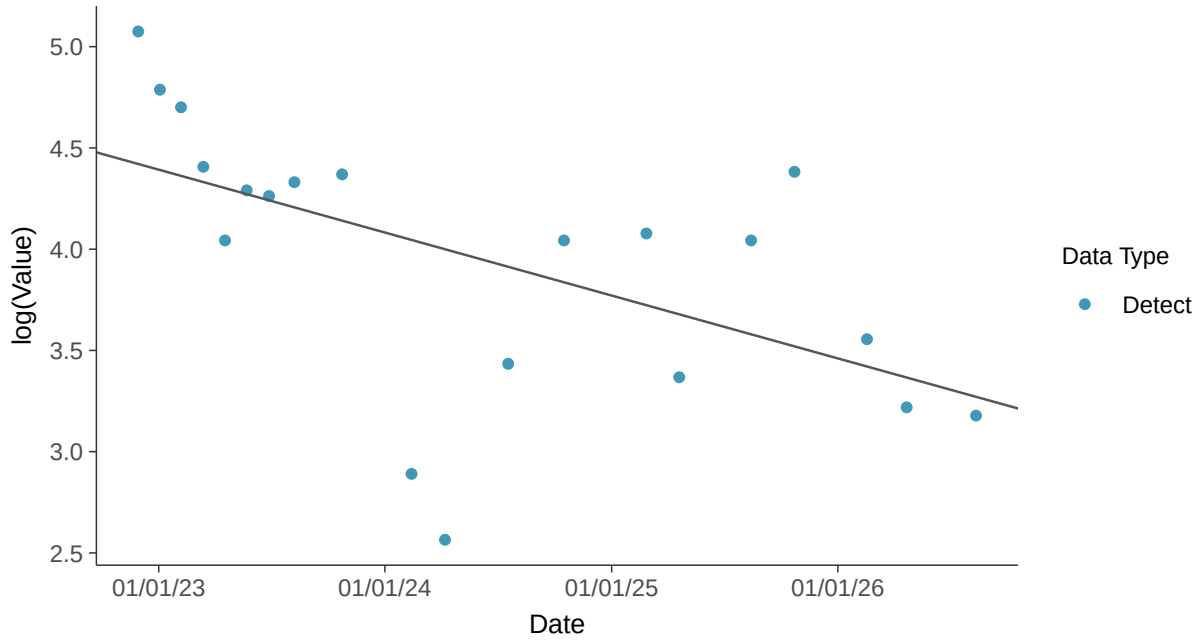
Gamma Q-Q plot

Chloride (as Cl), MW-06 (mg/L)



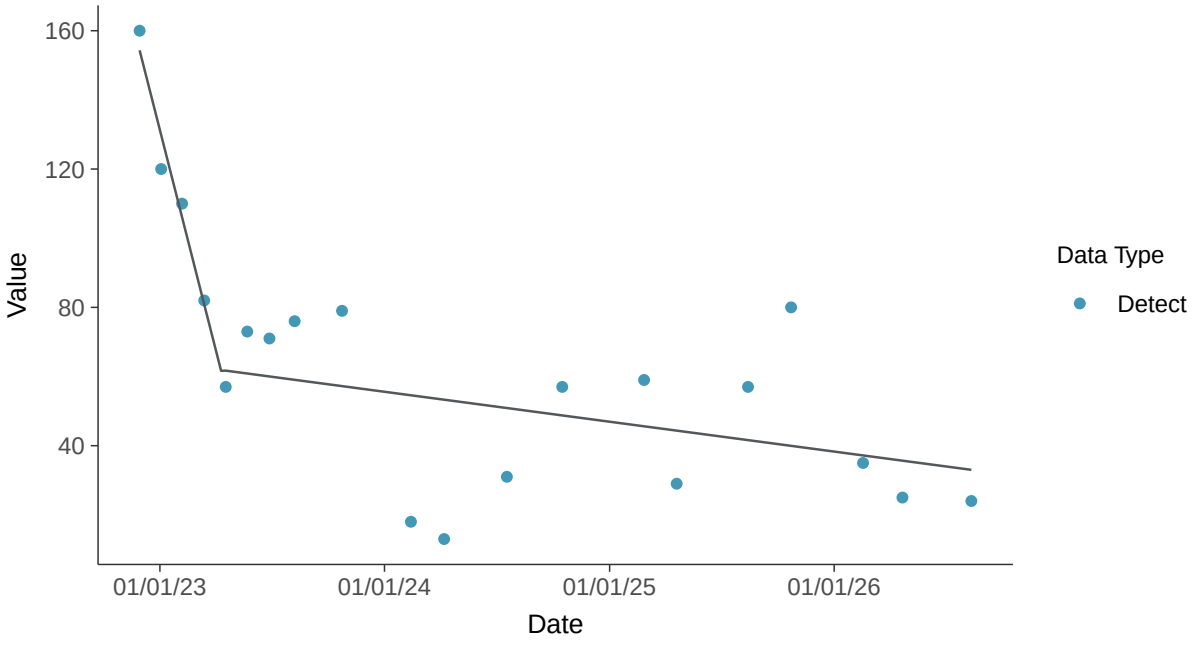
Trend Regression: Lognormal MLE

Chloride (as Cl), MW-06 (mg/L)



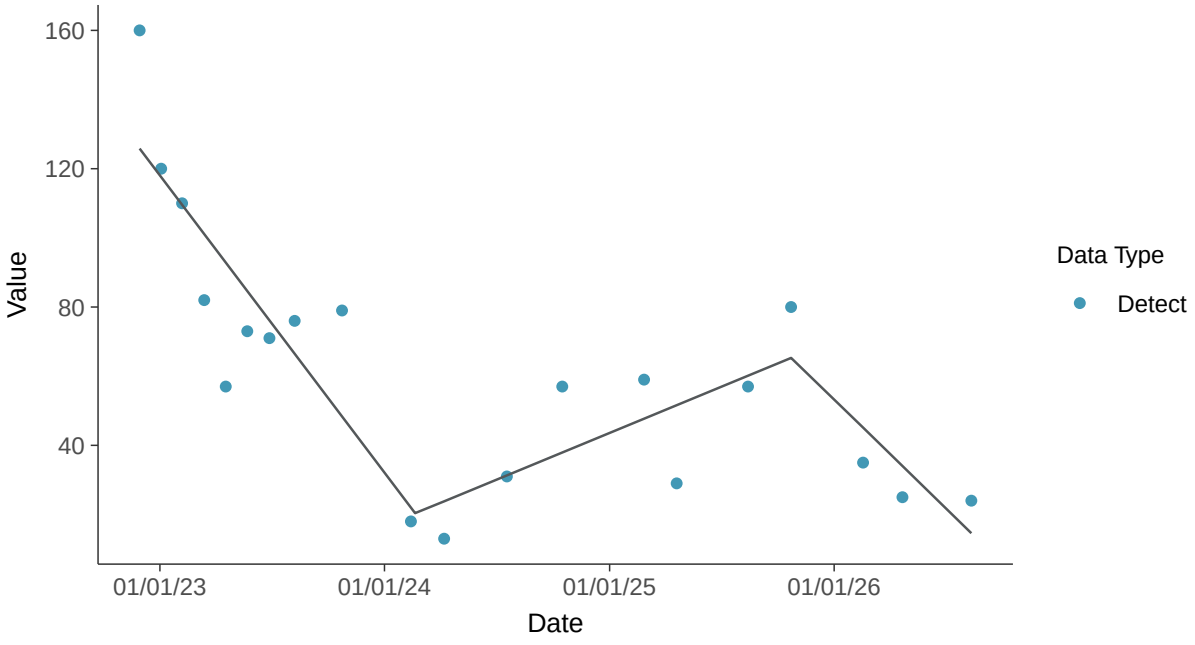
Trend Regression: Piecewise Linear-Linear

Chloride (as Cl), MW-06 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Chloride (as Cl), MW-06 (mg/L)

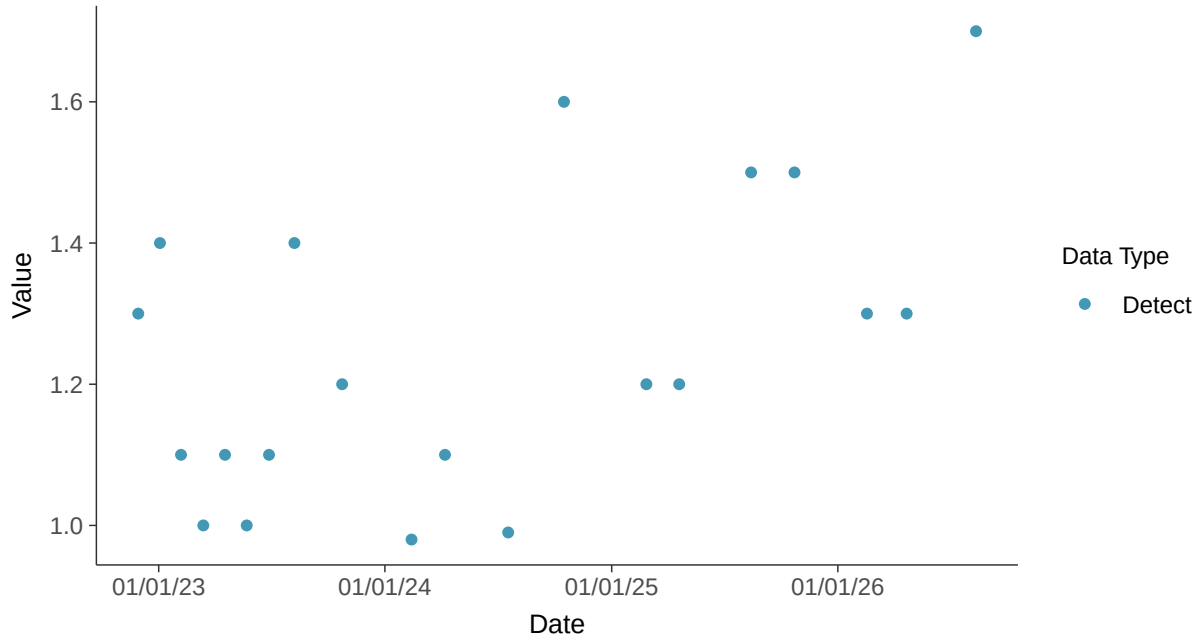


Appendix III: Fluoride, MW-06

ID: 16_1_3_112

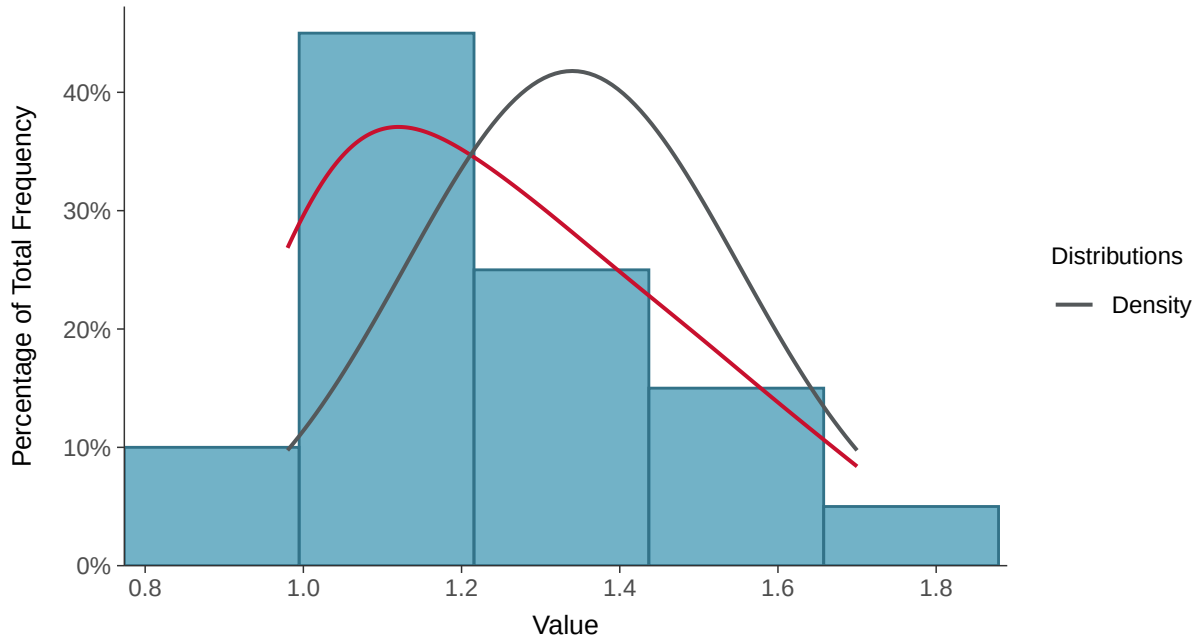
Scatter Plot

Fluoride, MW-06 (mg/L)



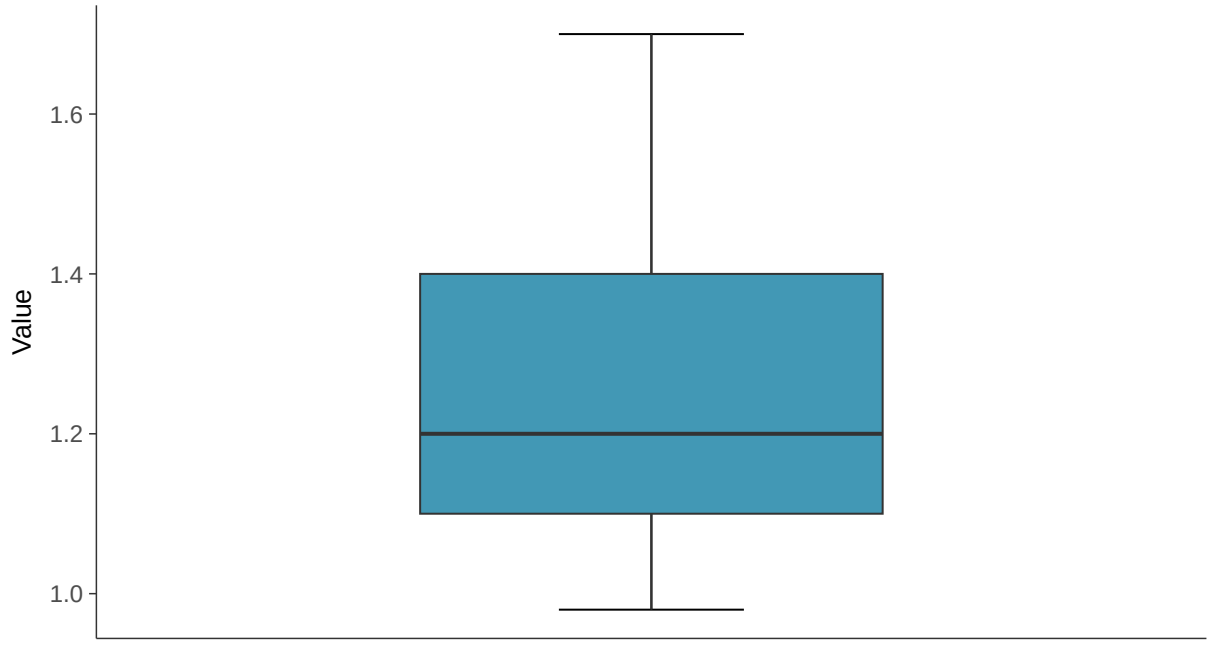
Histogram

Fluoride, MW-06 (mg/L)



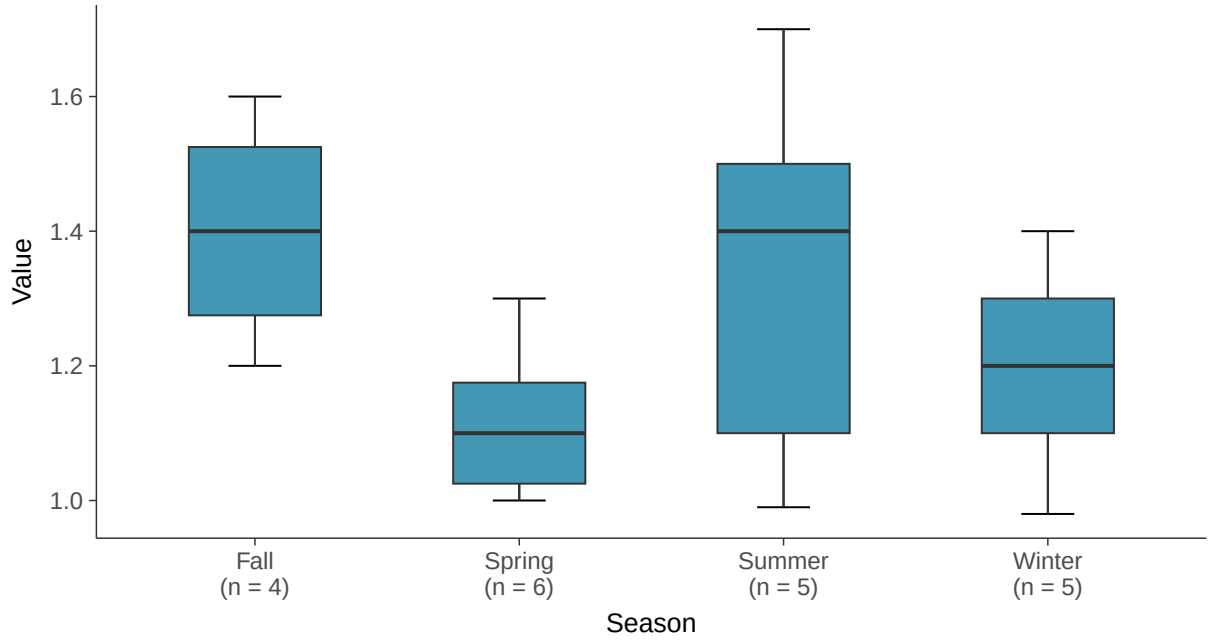
Boxplot

Fluoride, MW-06 (mg/L)



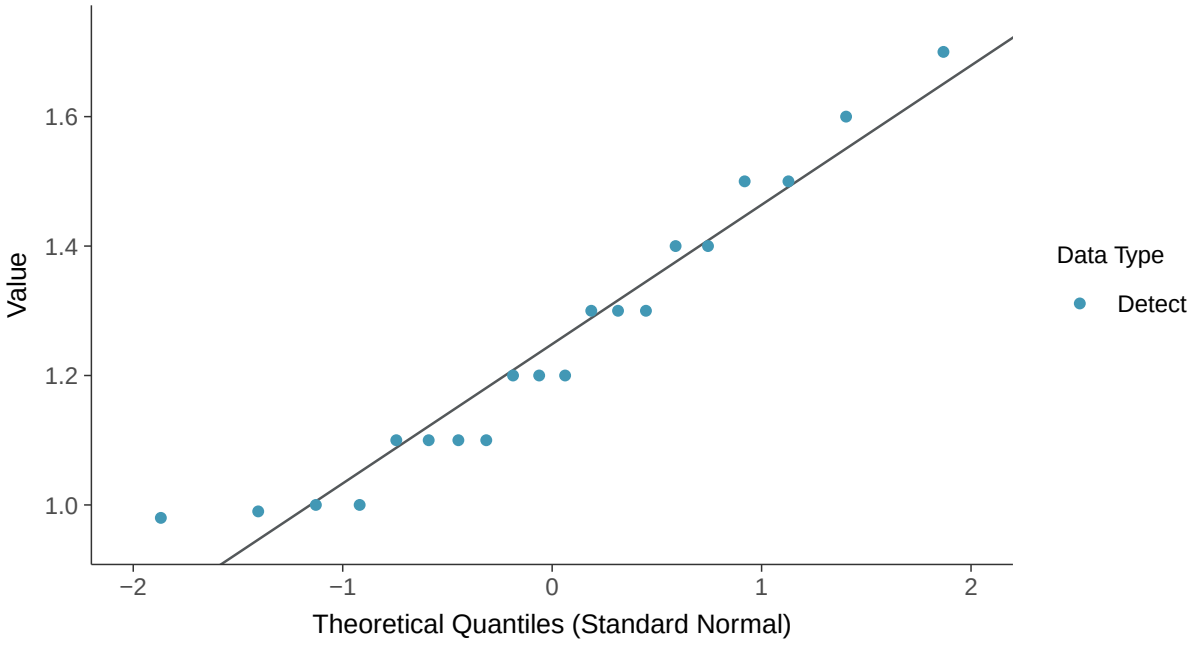
Boxplot by Season

Fluoride, MW-06 (mg/L)



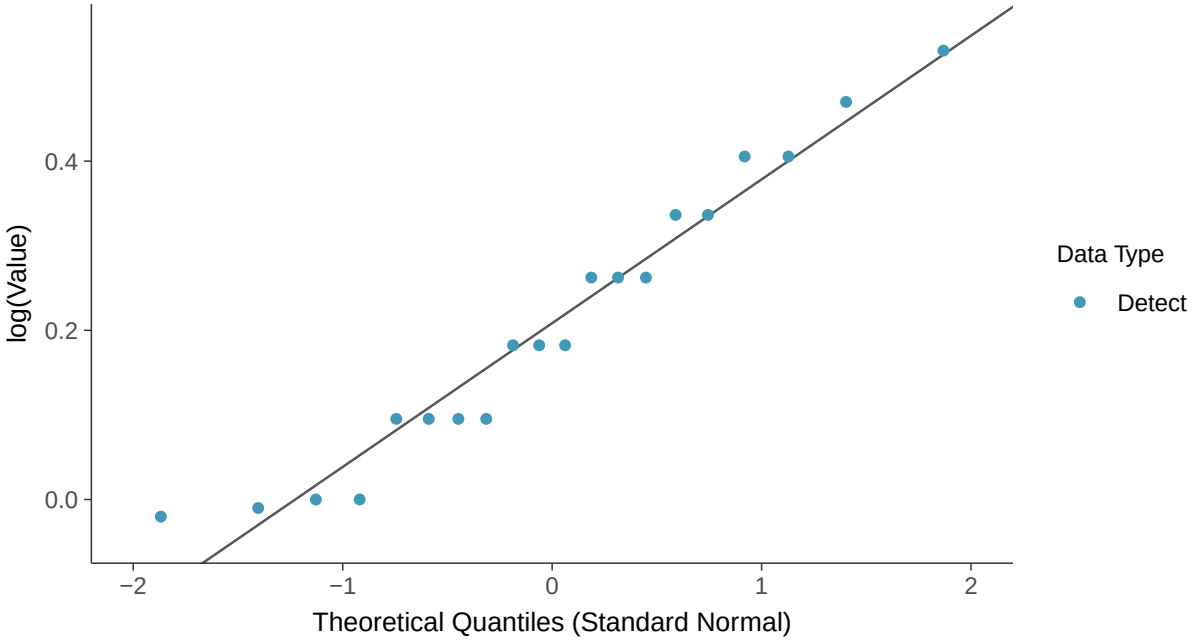
Normal Q-Q plot

Fluoride, MW-06 (mg/L)



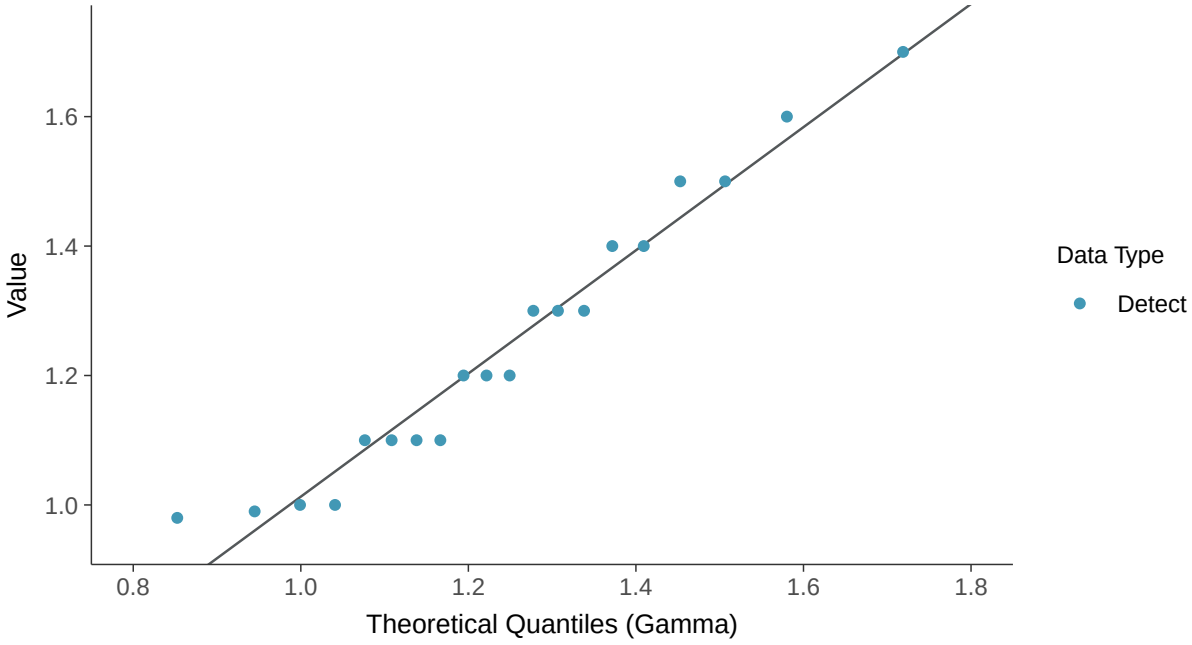
Lognormal Q-Q plot

Fluoride, MW-06 (mg/L)



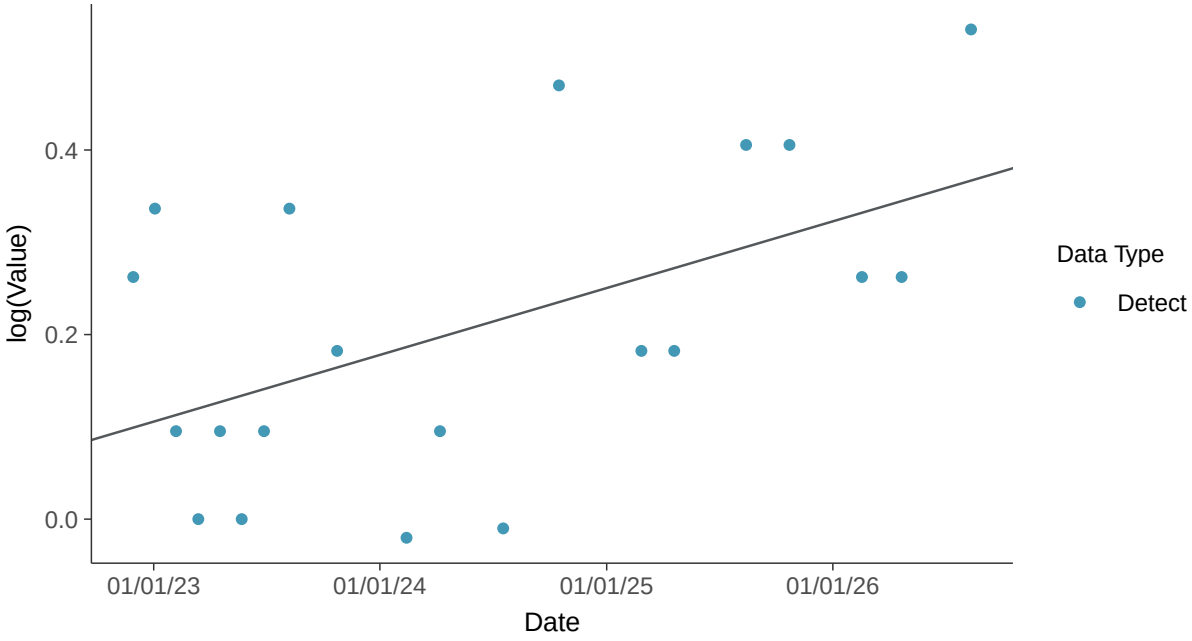
Gamma Q-Q plot

Fluoride, MW-06 (mg/L)



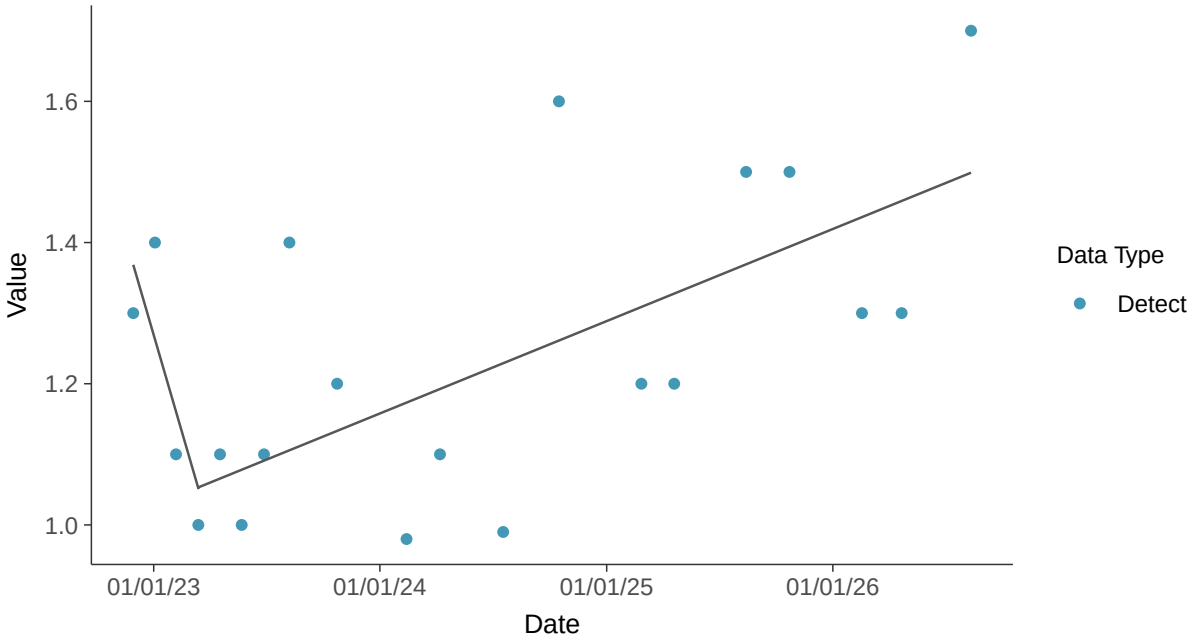
Trend Regression: Lognormal MLE

Fluoride, MW-06 (mg/L)



Trend Regression: Piecewise Linear-Linear

Fluoride, MW-06 (mg/L)

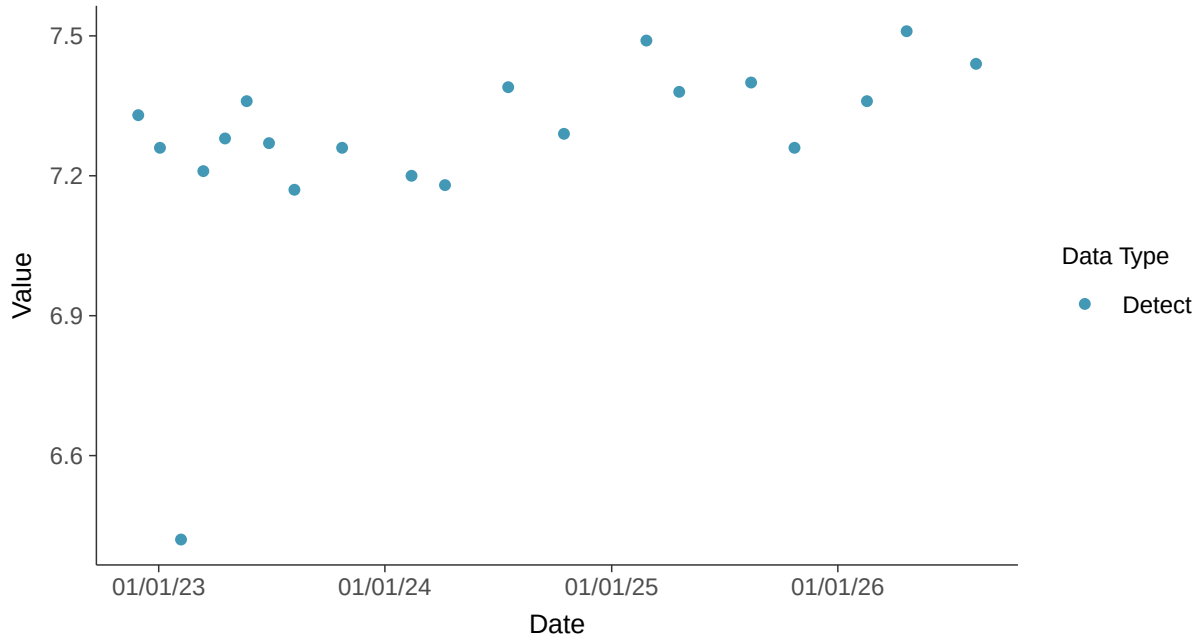


Appendix III: pH (field), MW-06

ID: 16_1_3_120

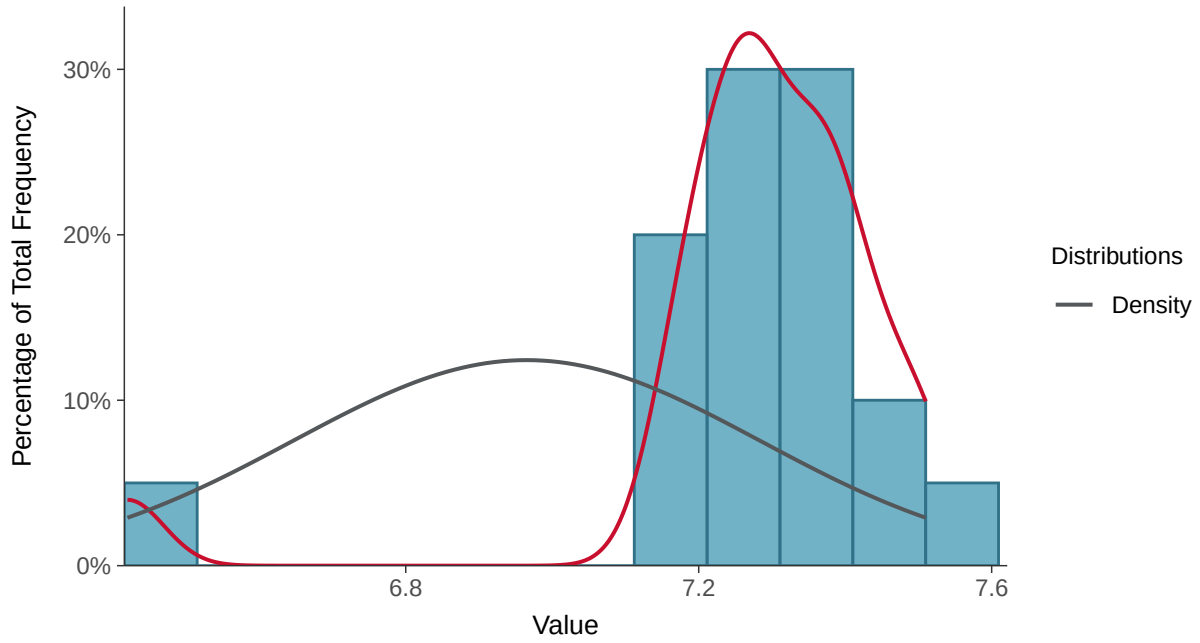
Scatter Plot

pH (field), MW-06 (su)



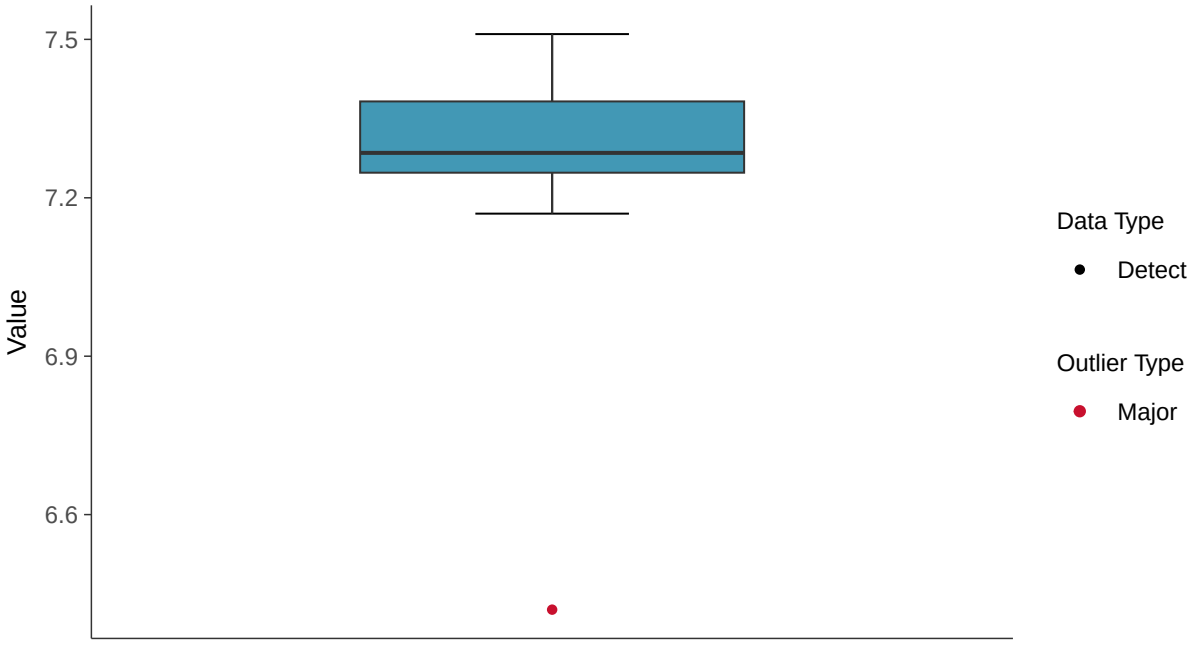
Histogram

pH (field), MW-06 (su)



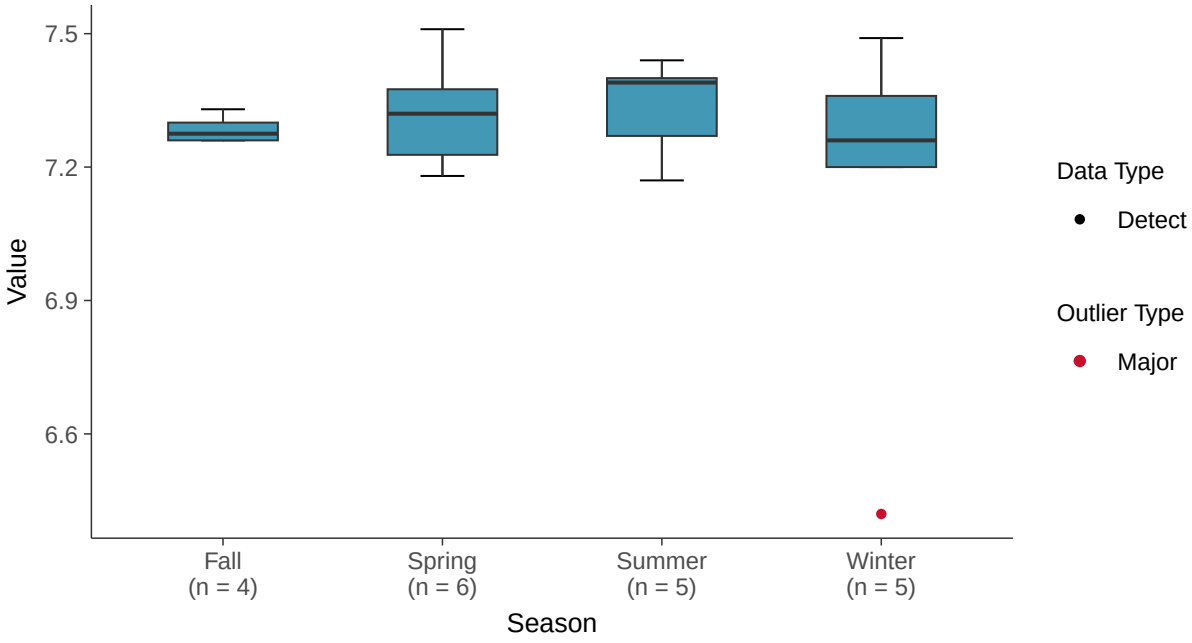
Boxplot

pH (field), MW-06 (su)



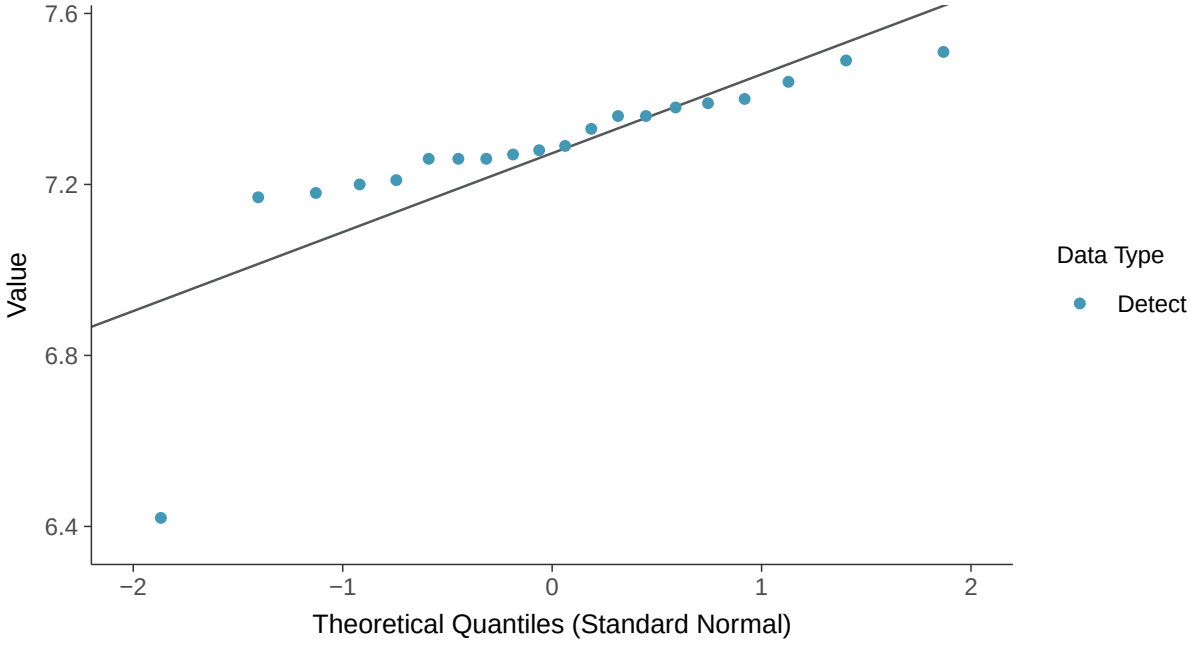
Boxplot by Season

pH (field), MW-06 (su)



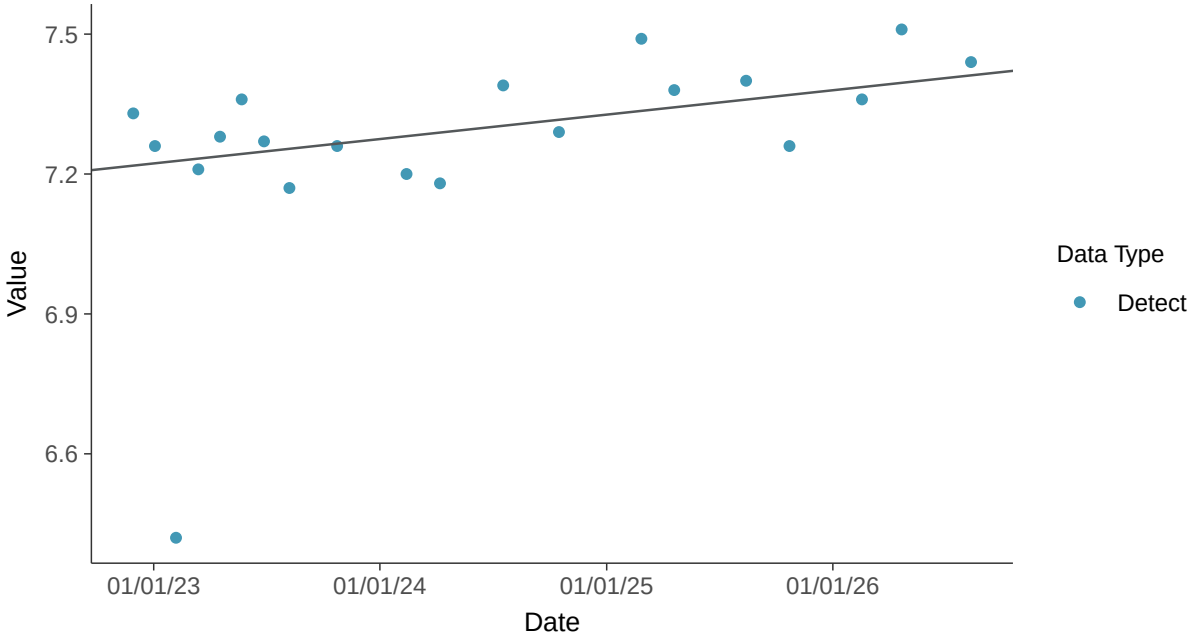
Normal Q-Q plot

pH (field), MW-06 (su)



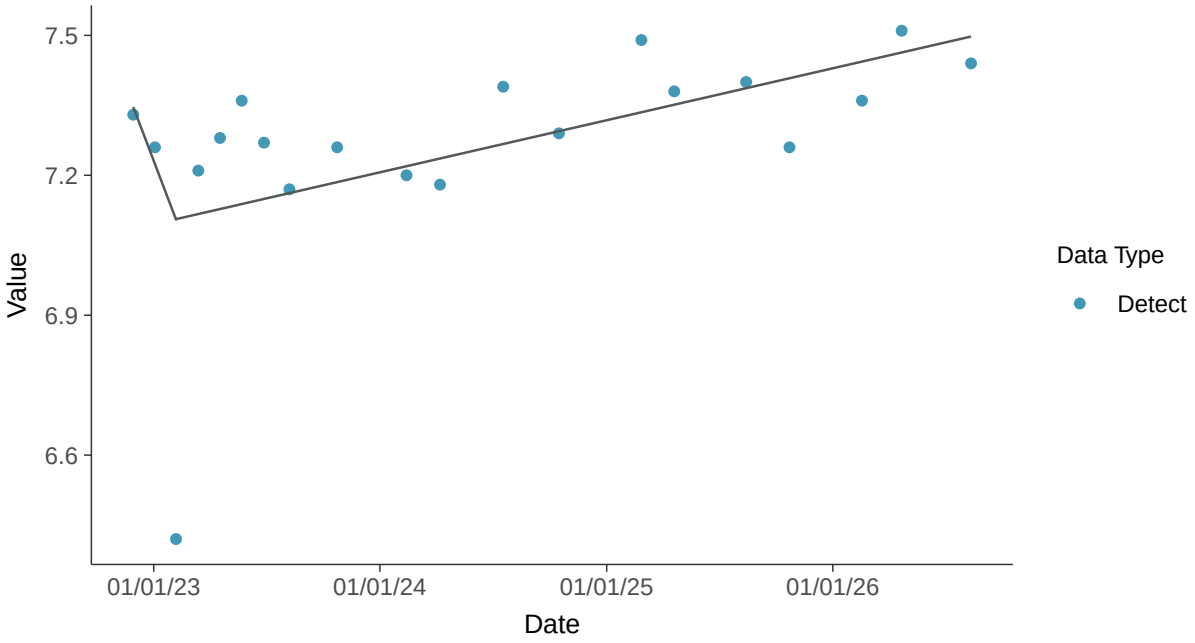
Trend Regression: Mann-Kendall/Theil-Sen Estimate

pH (field), MW-06 (su)



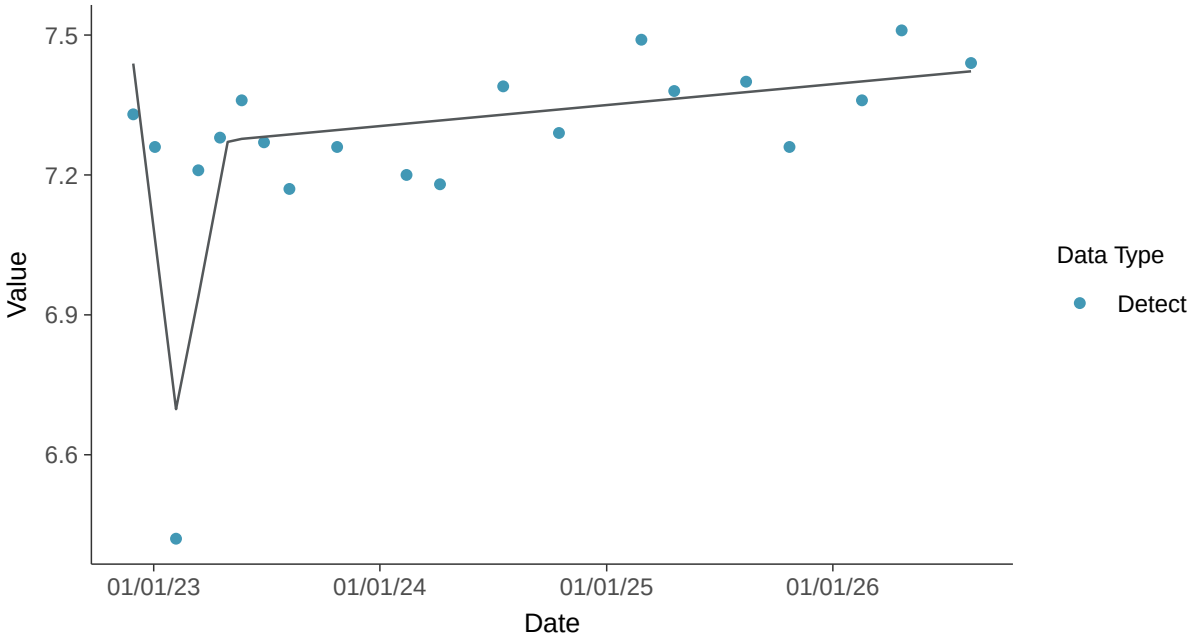
Trend Regression: Piecewise Linear-Linear

pH (field), MW-06 (su)



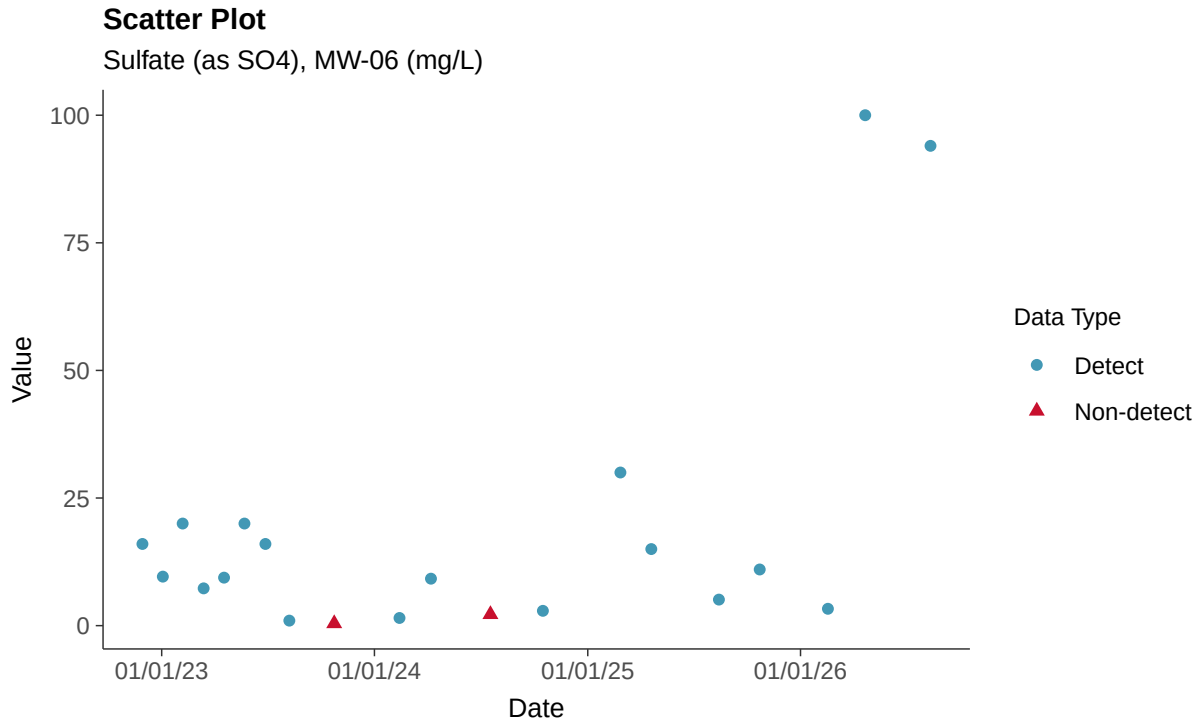
Trend Regression: Piecewise Linear-Linear-Linear

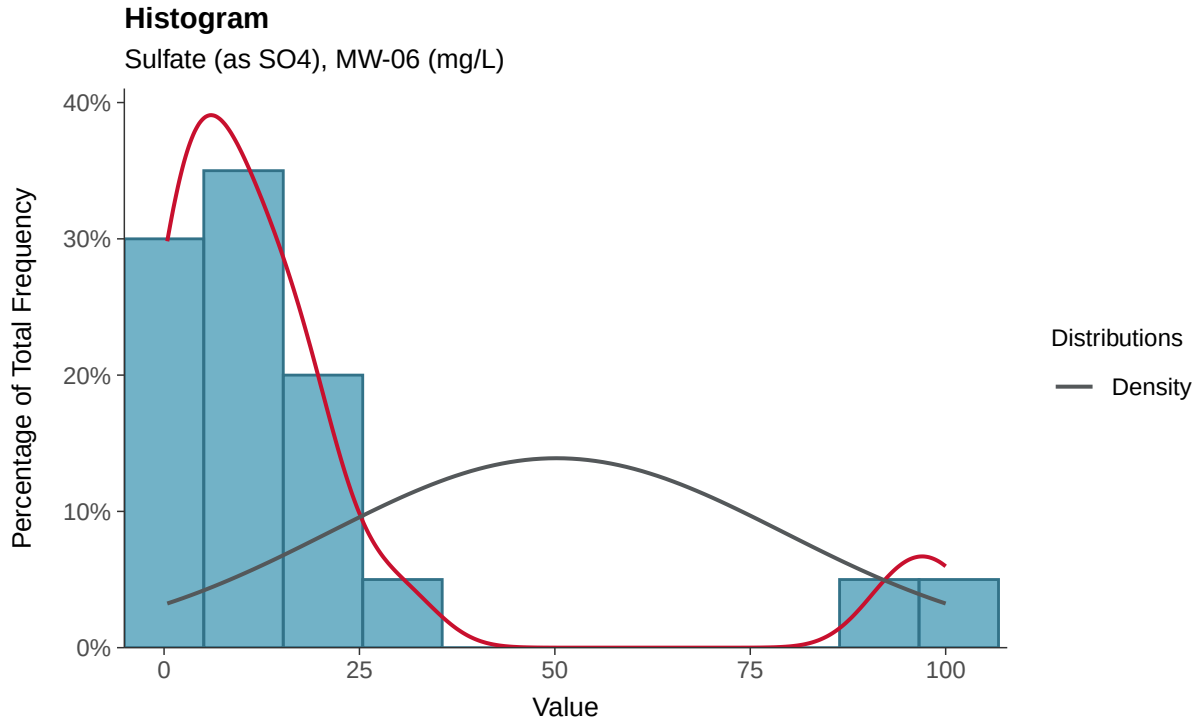
pH (field), MW-06 (su)



Appendix III: Sulfate (as SO4), MW-06

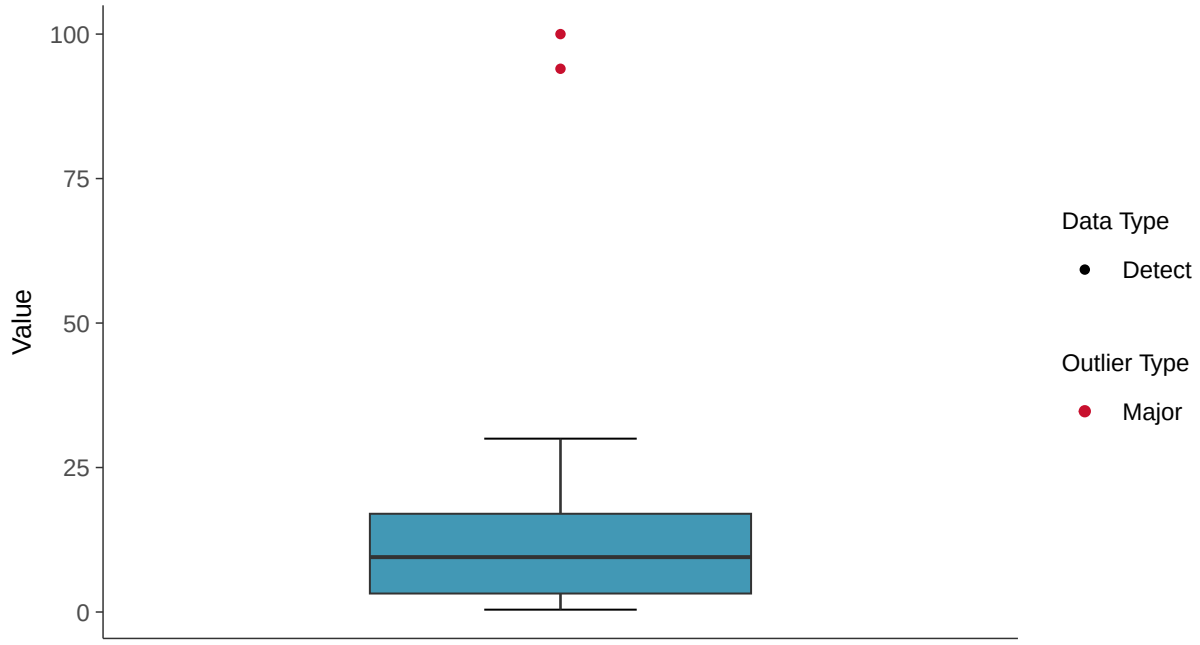
ID: 16_1_3_124





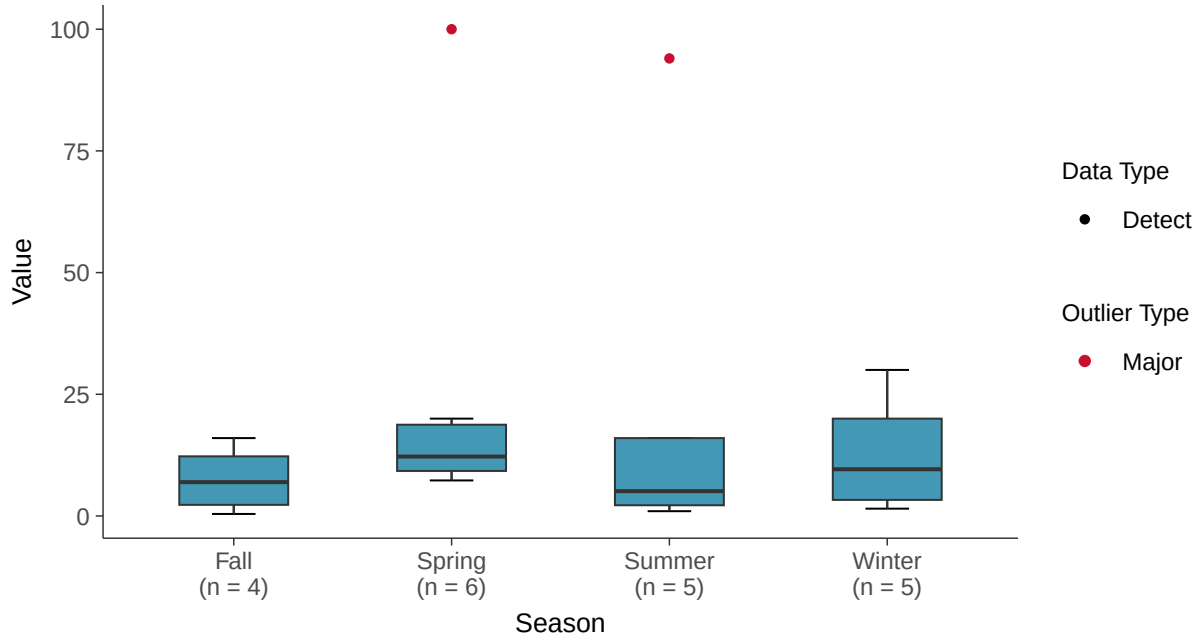
Boxplot

Sulfate (as SO4), MW-06 (mg/L)



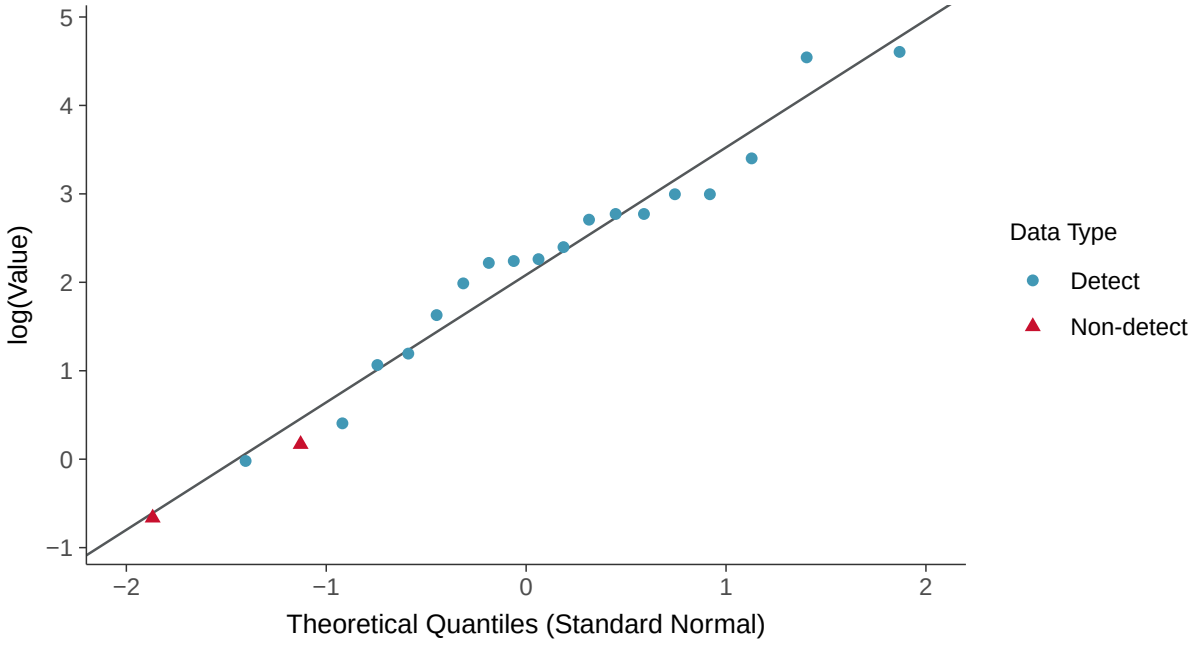
Boxplot by Season

Sulfate (as SO4), MW-06 (mg/L)



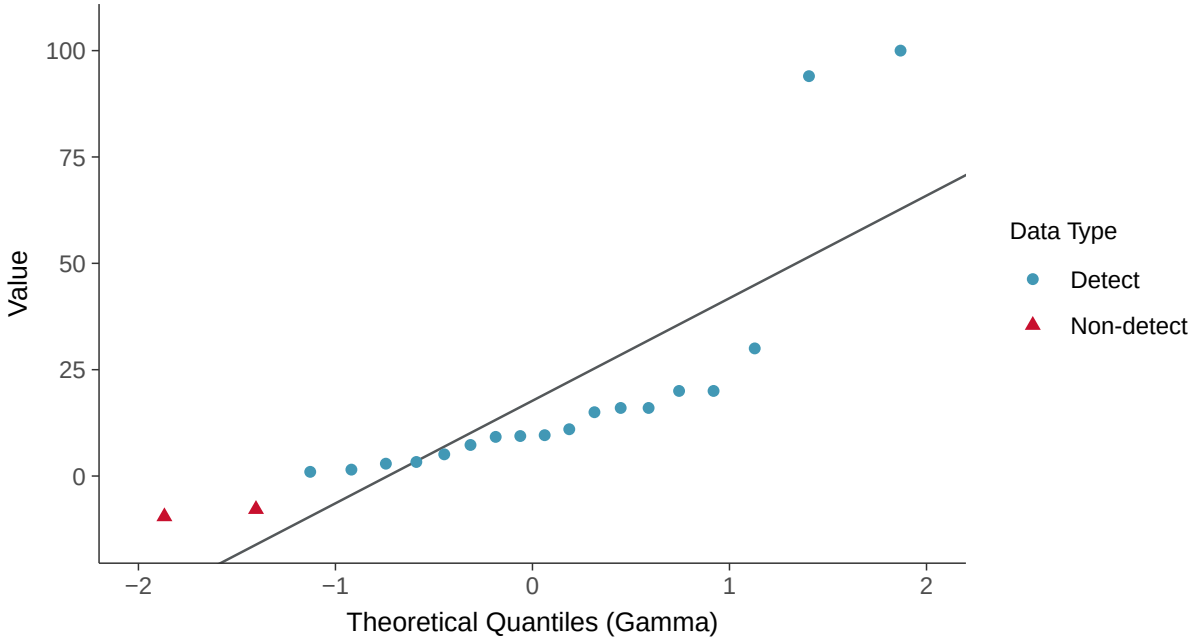
Lognormal Q-Q plot using ROS Imputed Estimates

Sulfate (as SO4), MW-06 (mg/L)



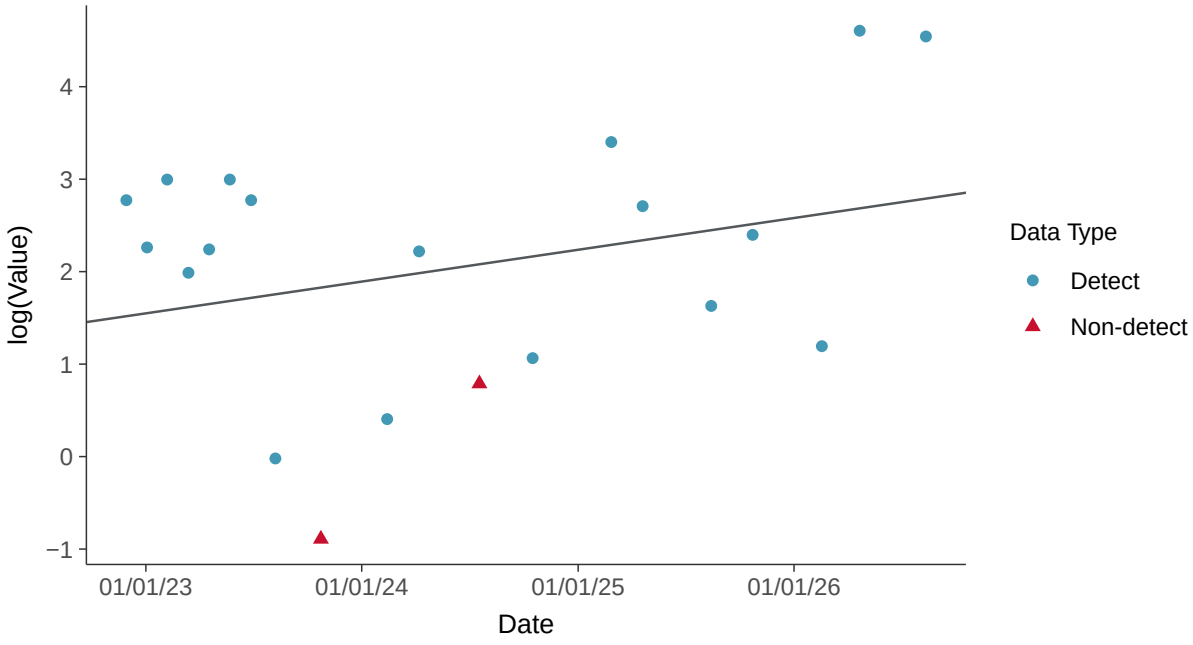
Gamma Q-Q plot using ROS Imputed Estimates

Sulfate (as SO4), MW-06 (mg/L)



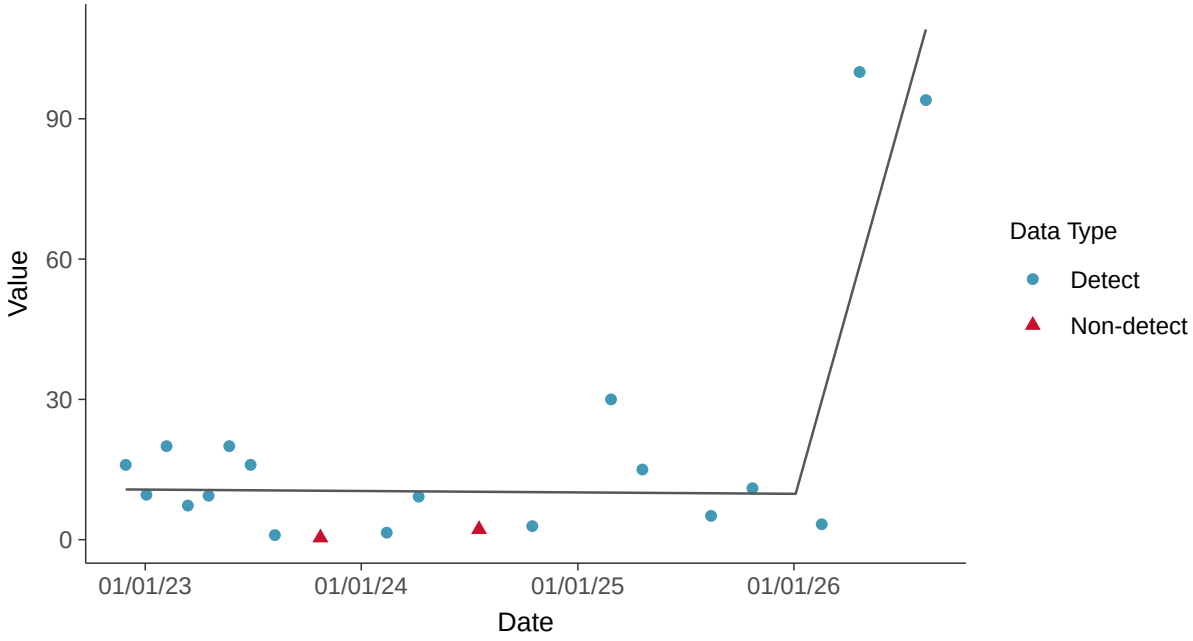
Trend Regression: Lognormal MLE

Sulfate (as SO4), MW-06 (mg/L)



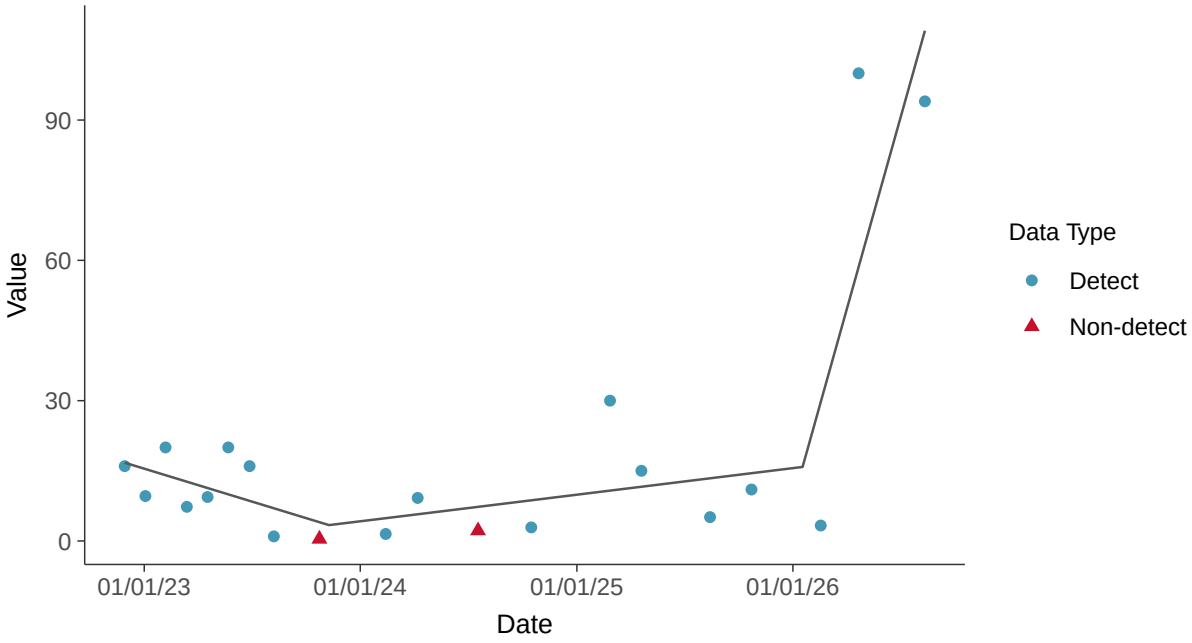
Trend Regression: Piecewise Linear-Linear

Sulfate (as SO4), MW-06 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Sulfate (as SO4), MW-06 (mg/L)

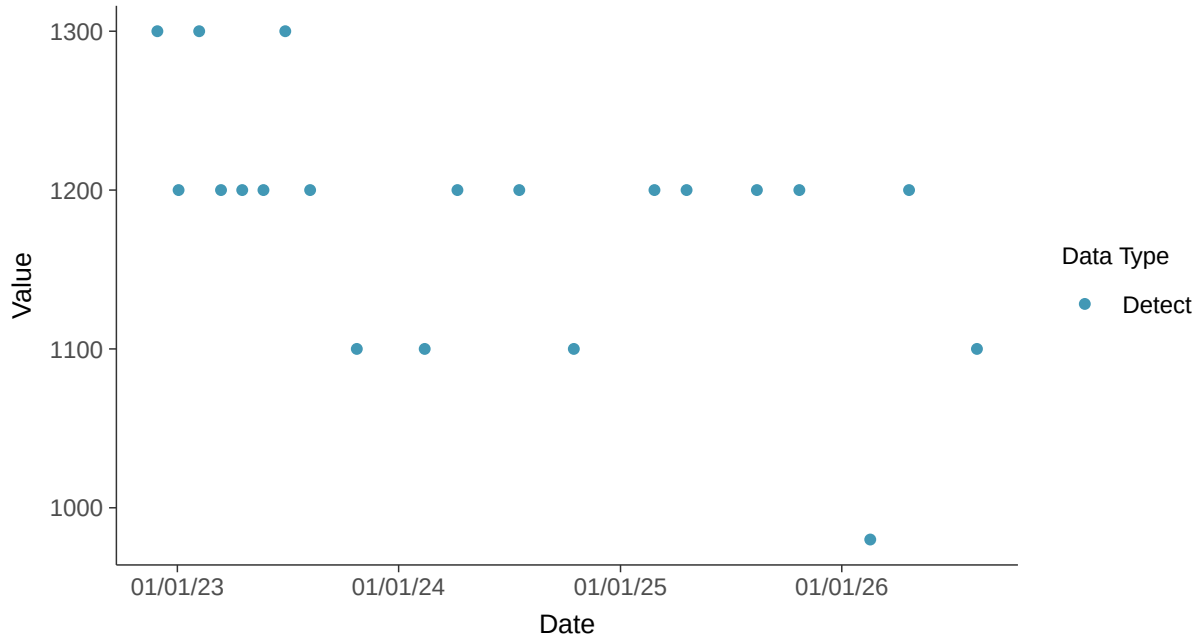


Appendix III: Total Dissolved Solids, MW-06

ID: 16_1_3_126

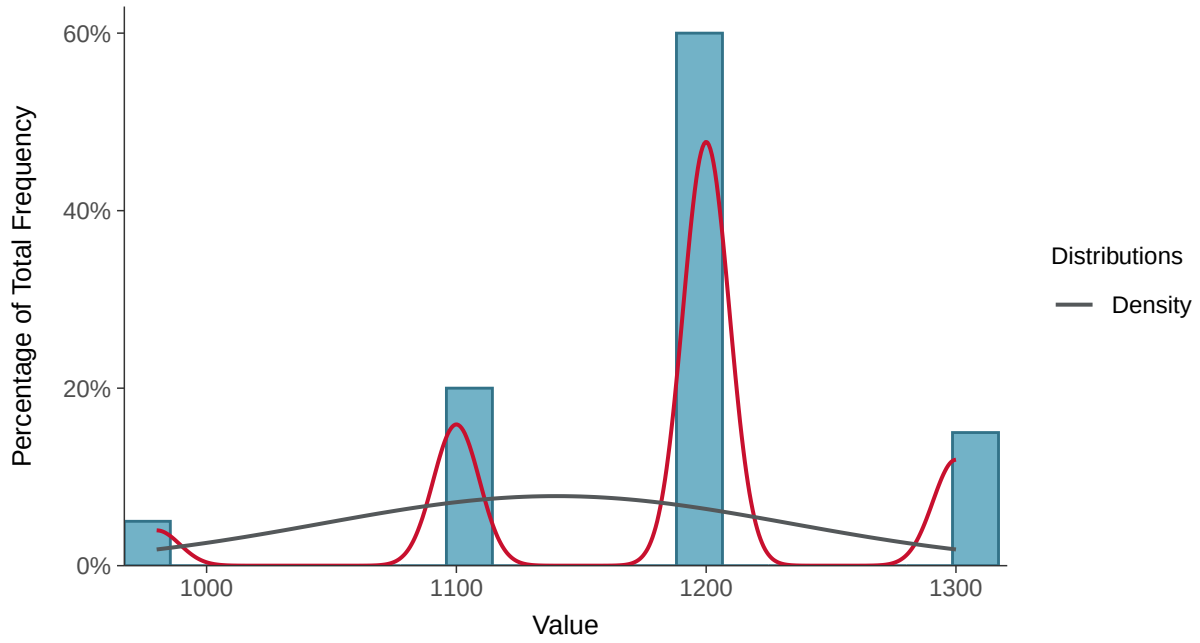
Scatter Plot

Total Dissolved Solids, MW-06 (mg/L)



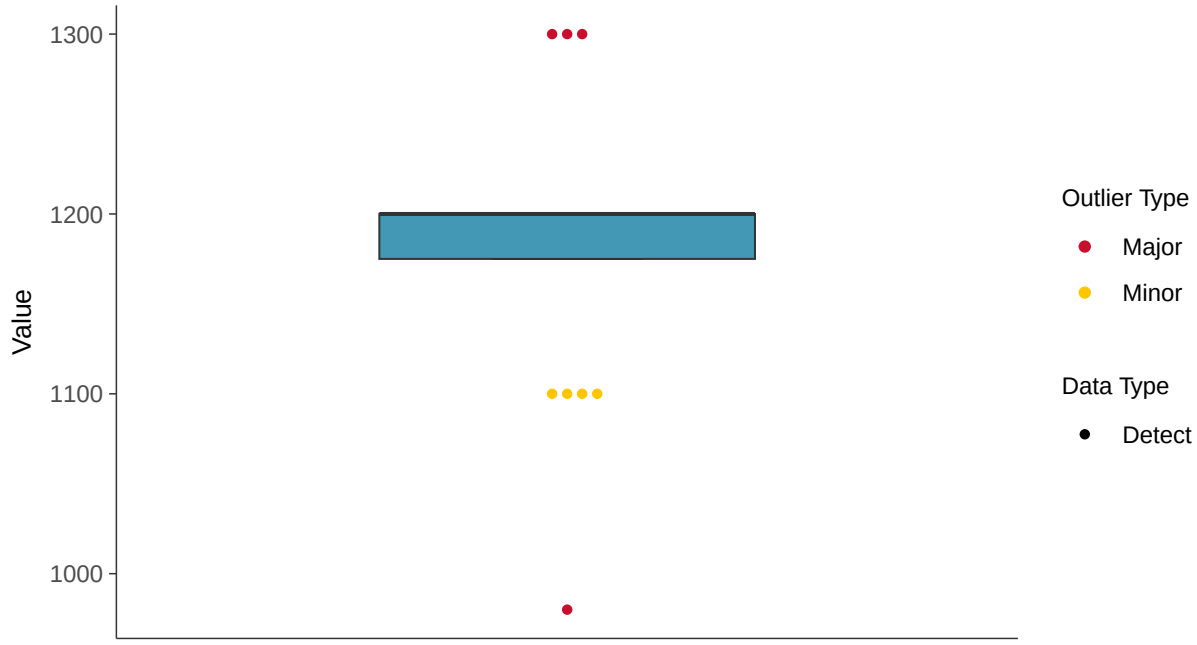
Histogram

Total Dissolved Solids, MW-06 (mg/L)



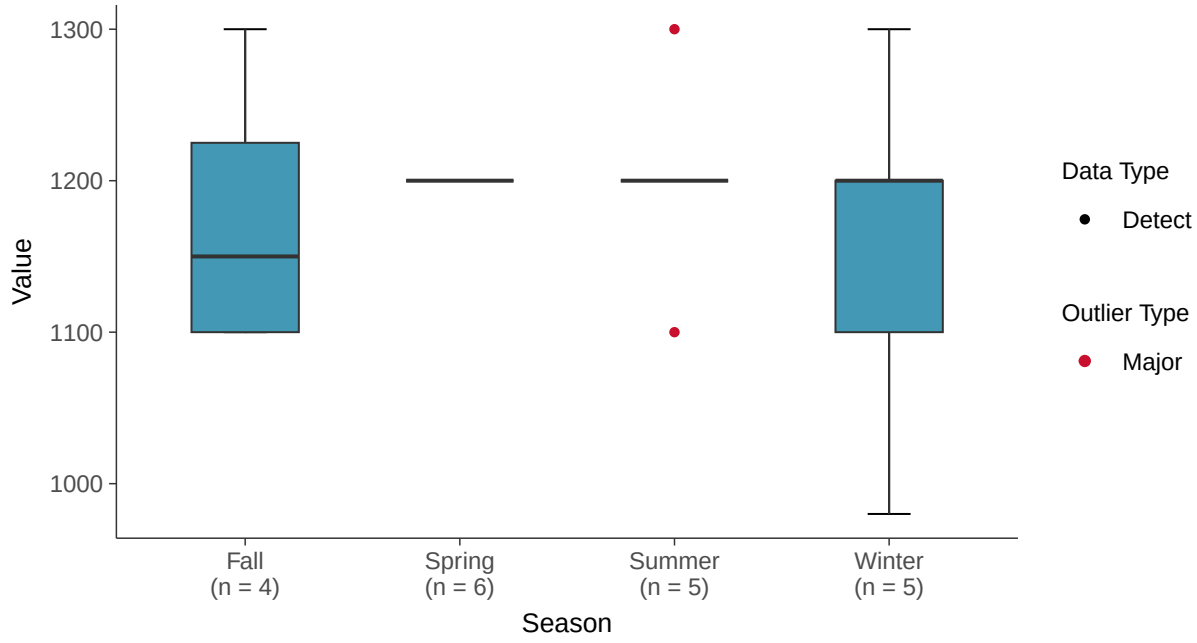
Boxplot

Total Dissolved Solids, MW-06 (mg/L)



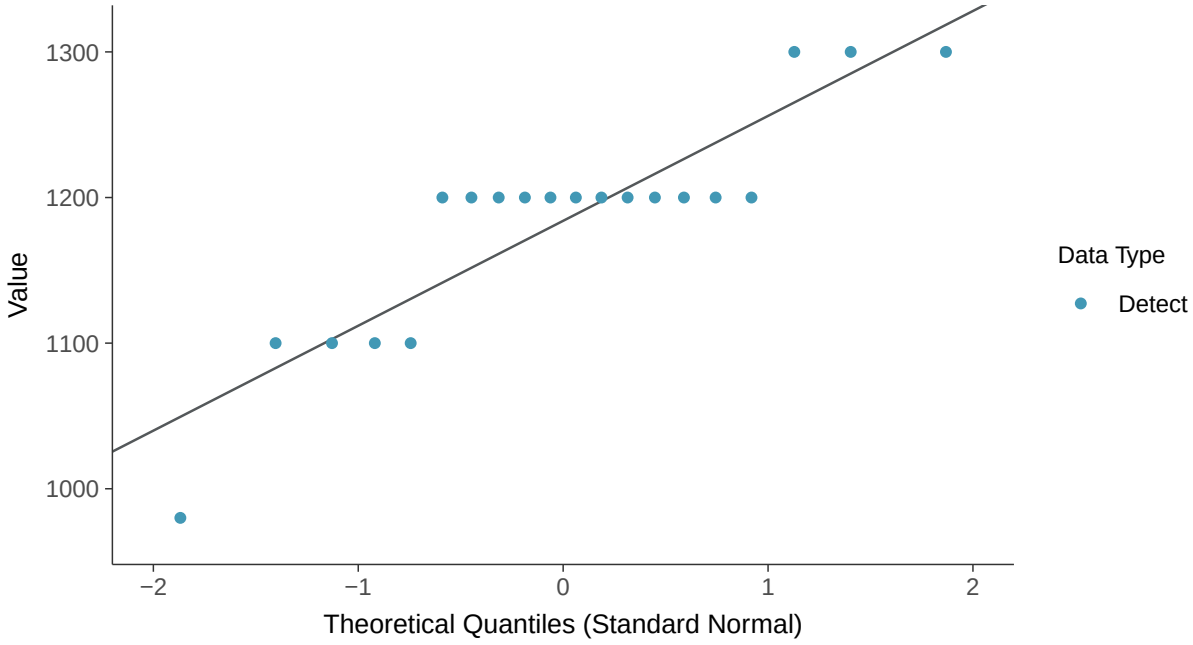
Boxplot by Season

Total Dissolved Solids, MW-06 (mg/L)



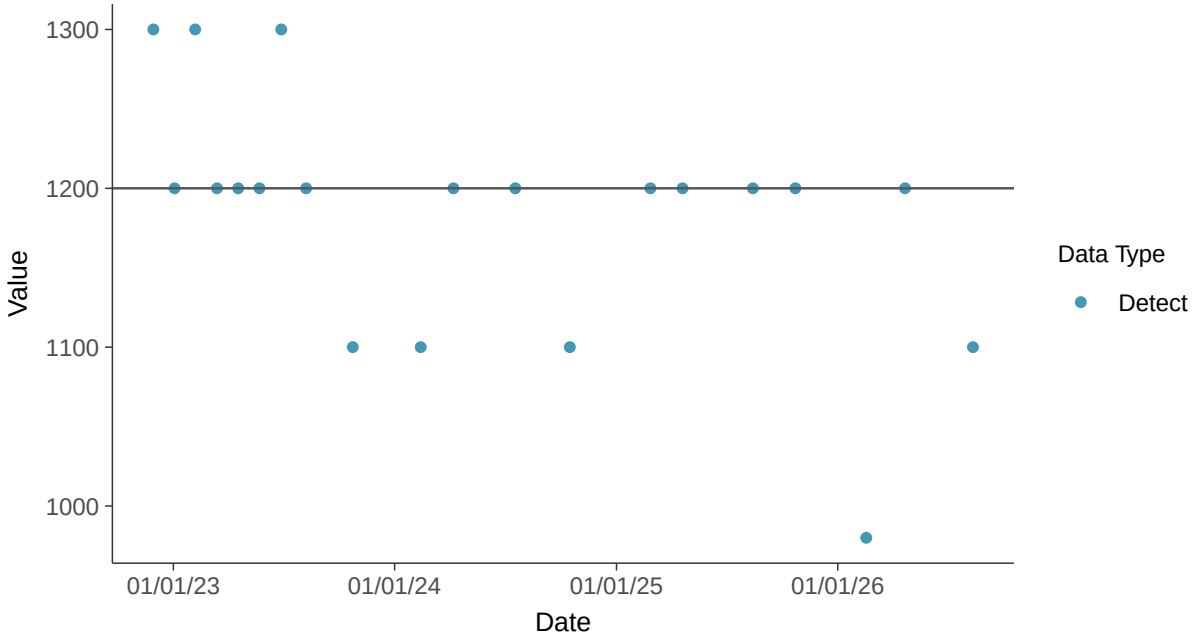
Normal Q-Q plot

Total Dissolved Solids, MW-06 (mg/L)



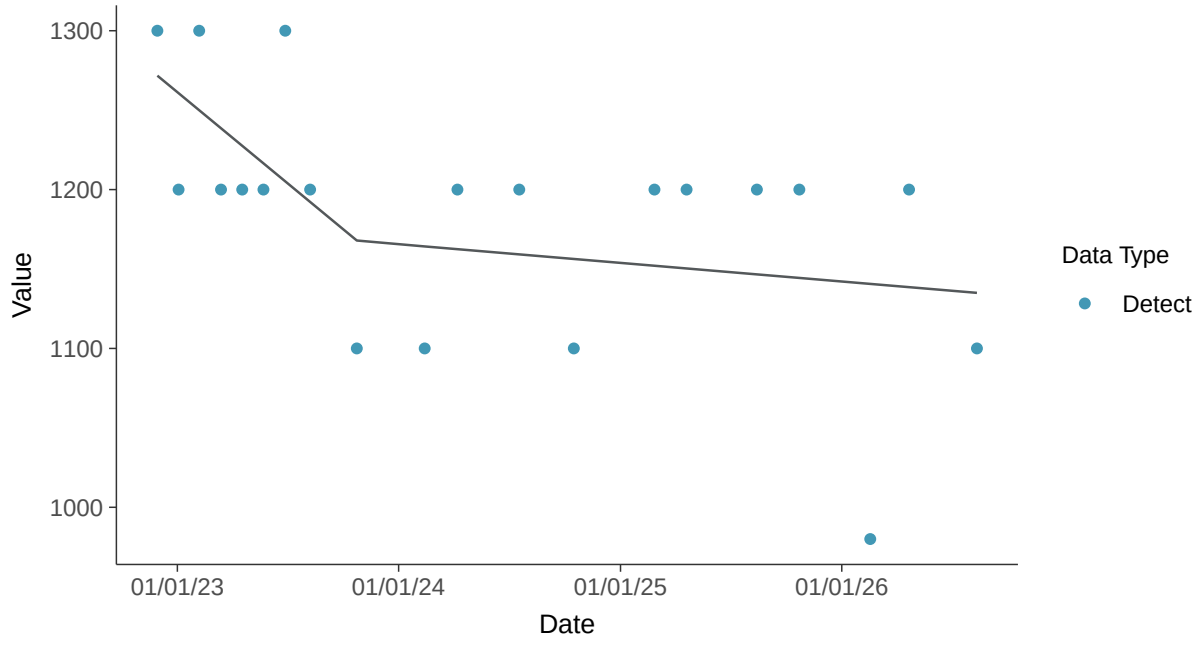
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Total Dissolved Solids, MW-06 (mg/L)



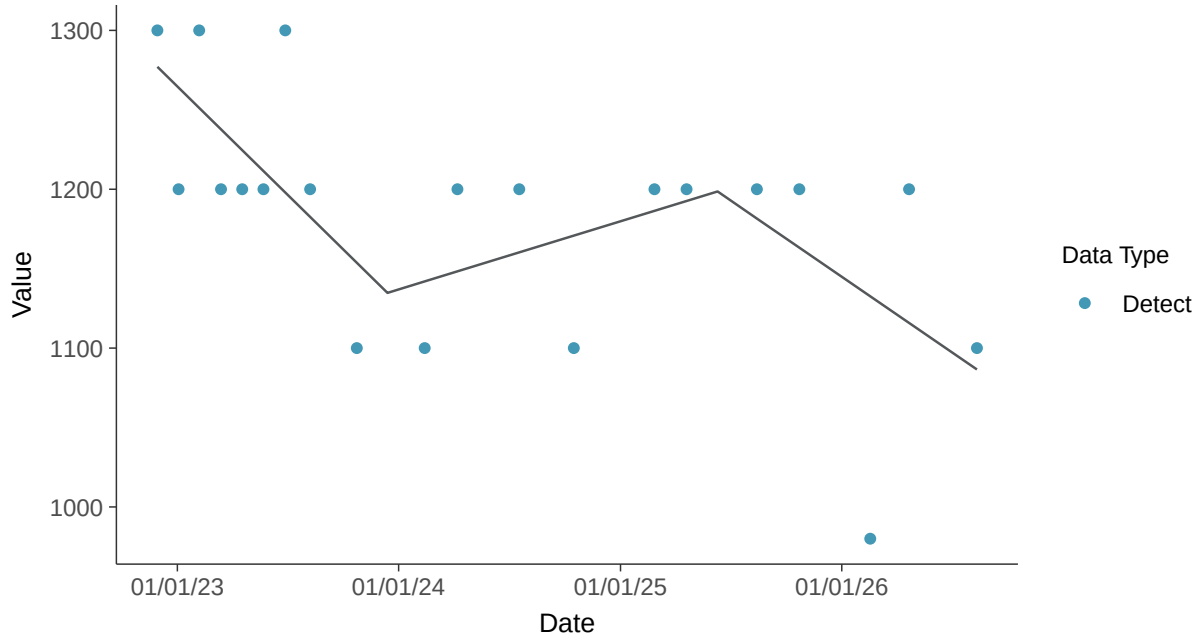
Trend Regression: Piecewise Linear-Linear

Total Dissolved Solids, MW-06 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Total Dissolved Solids, MW-06 (mg/L)

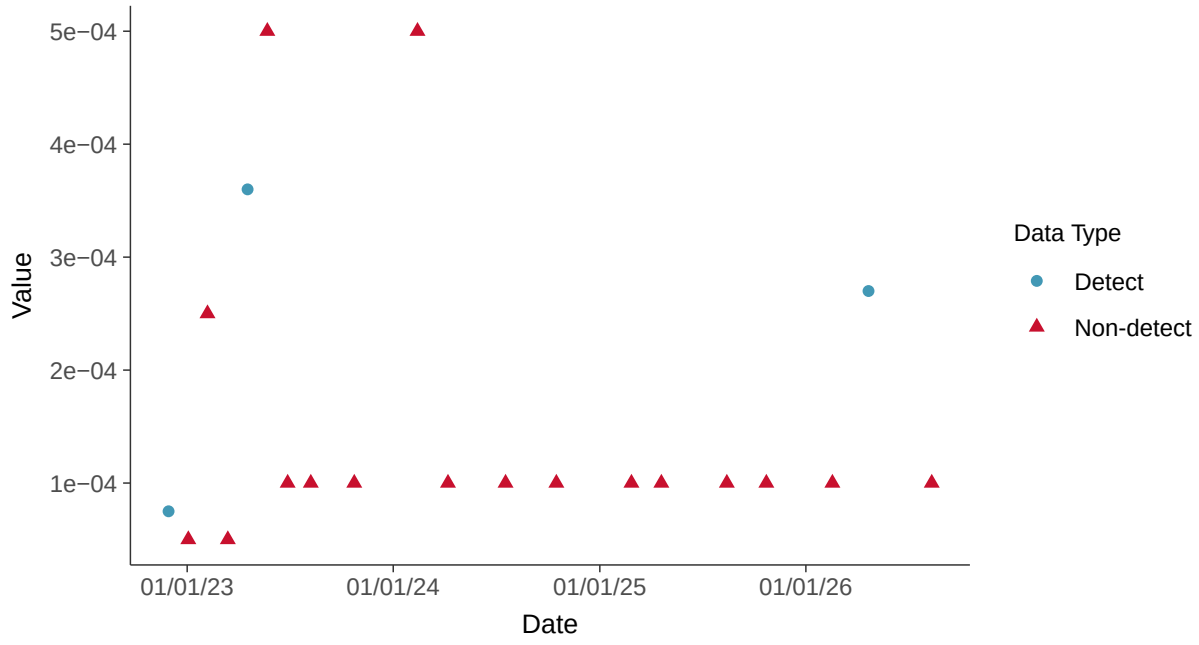


Appendix IV: Antimony, MW-06

ID: 16_1_4_101

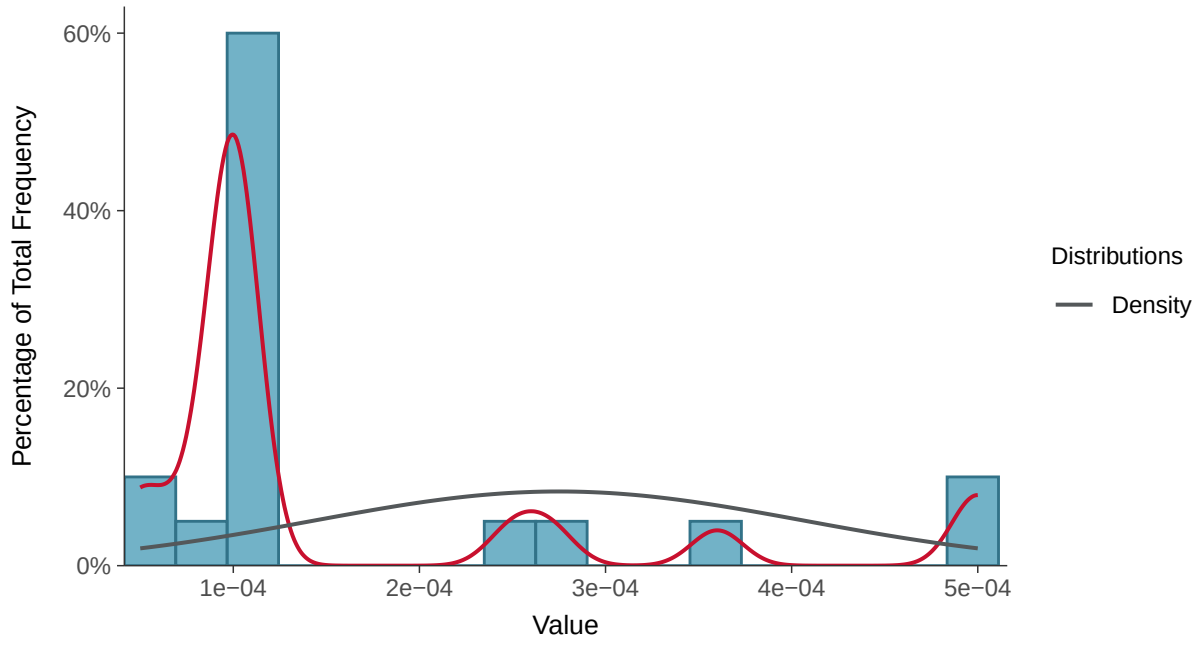
Scatter Plot

Antimony, MW-06 (mg/L)



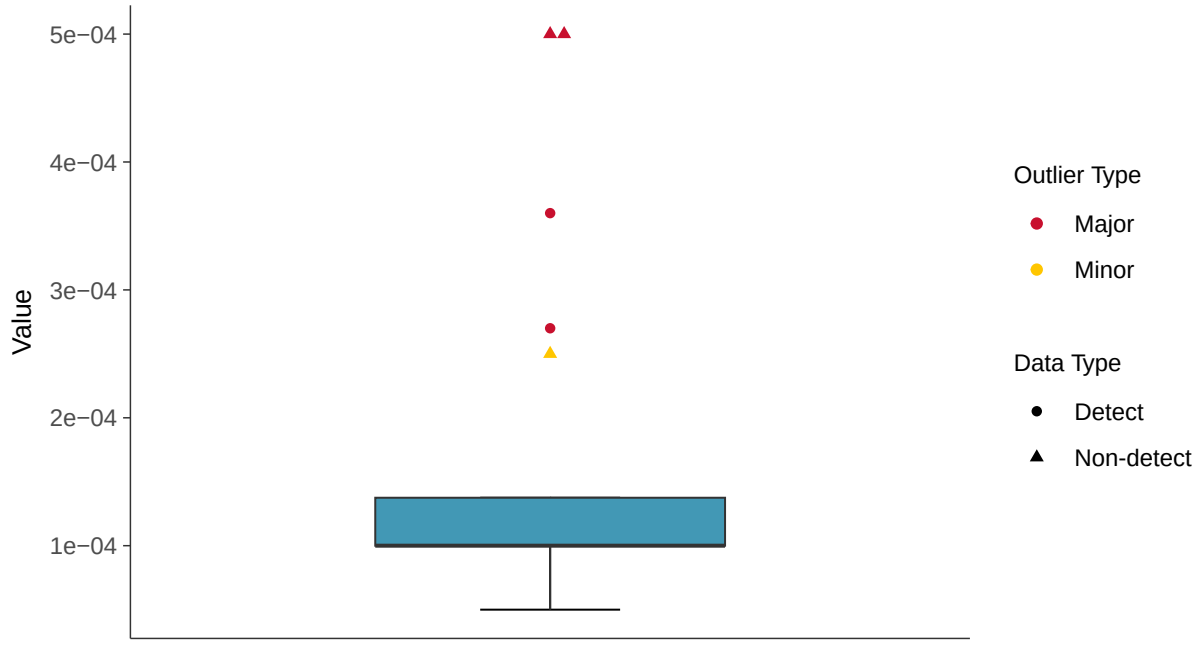
Histogram

Antimony, MW-06 (mg/L)



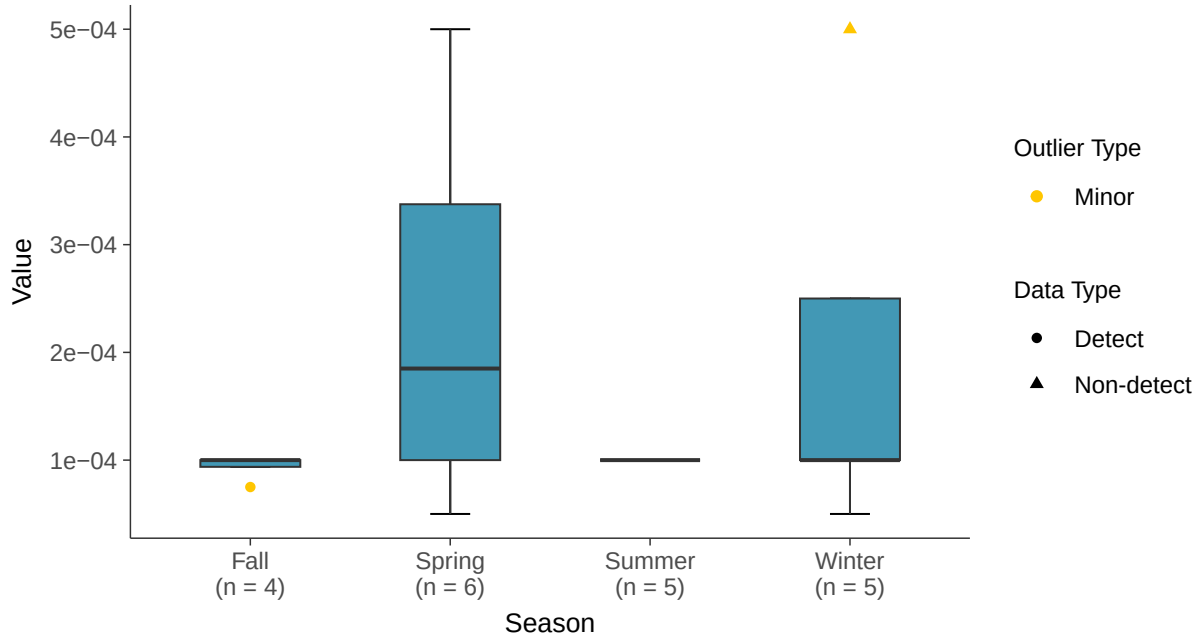
Boxplot

Antimony, MW-06 (mg/L)



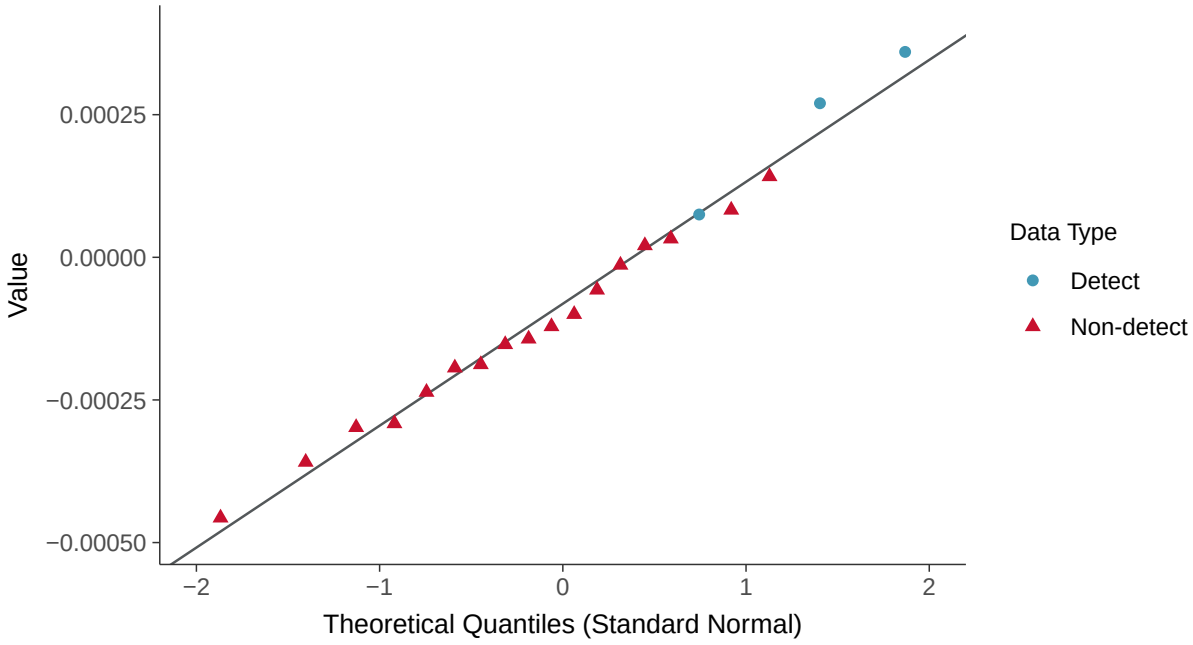
Boxplot by Season

Antimony, MW-06 (mg/L)



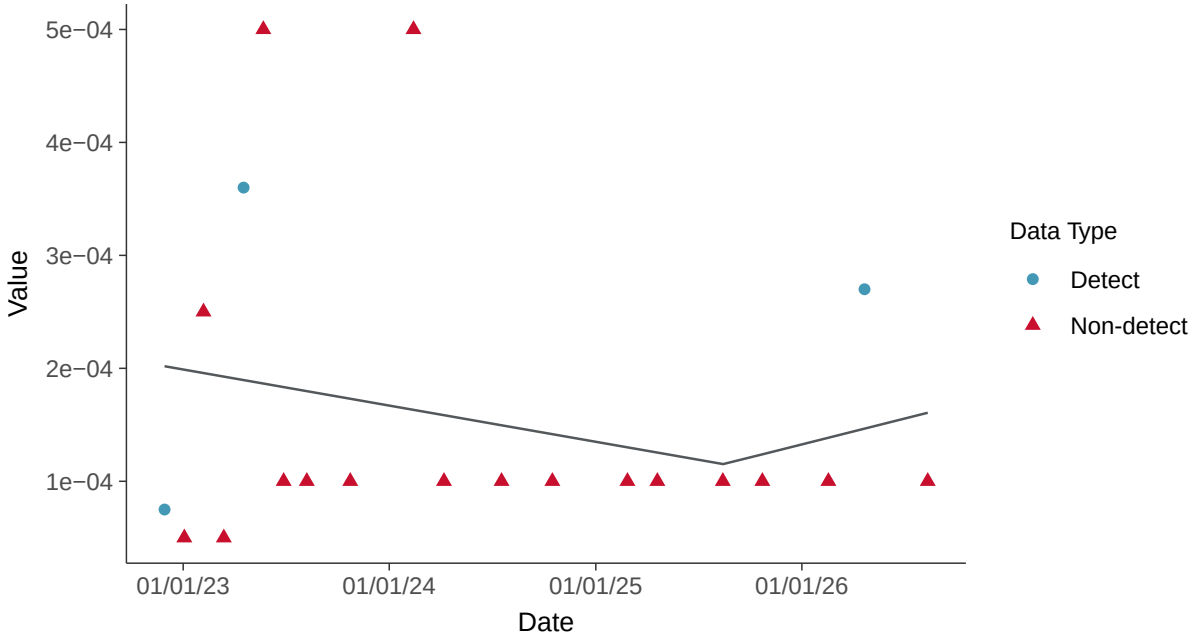
Normal Q-Q plot using ROS Imputed Estimates

Antimony, MW-06 (mg/L)



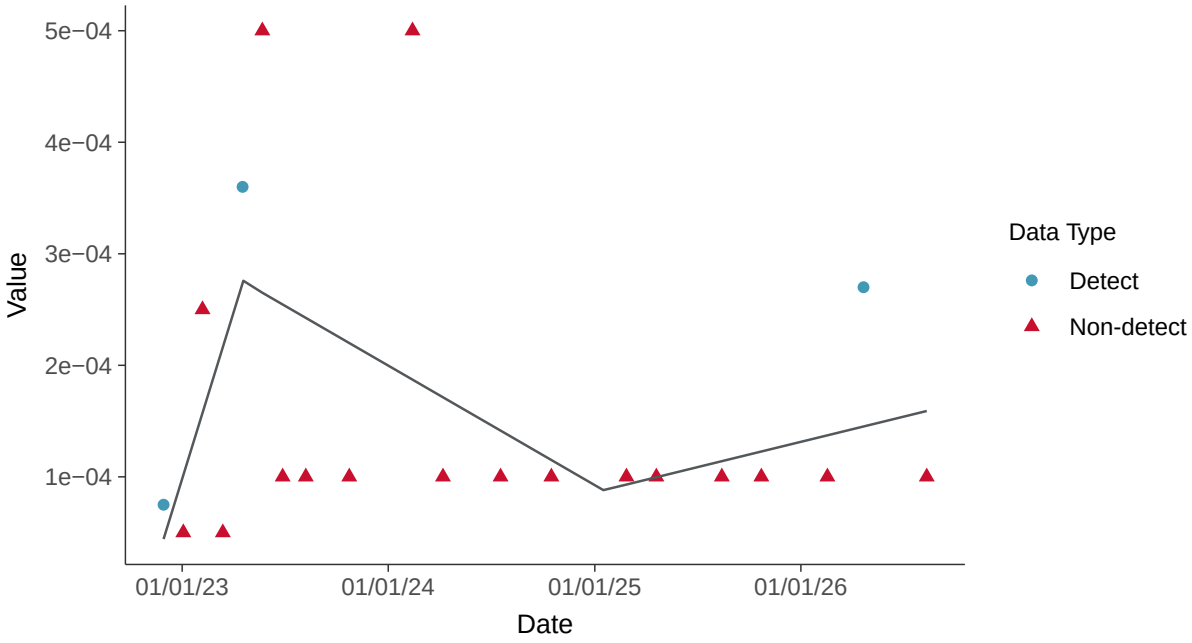
Trend Regression: Piecewise Linear-Linear

Antimony, MW-06 (mg/L)



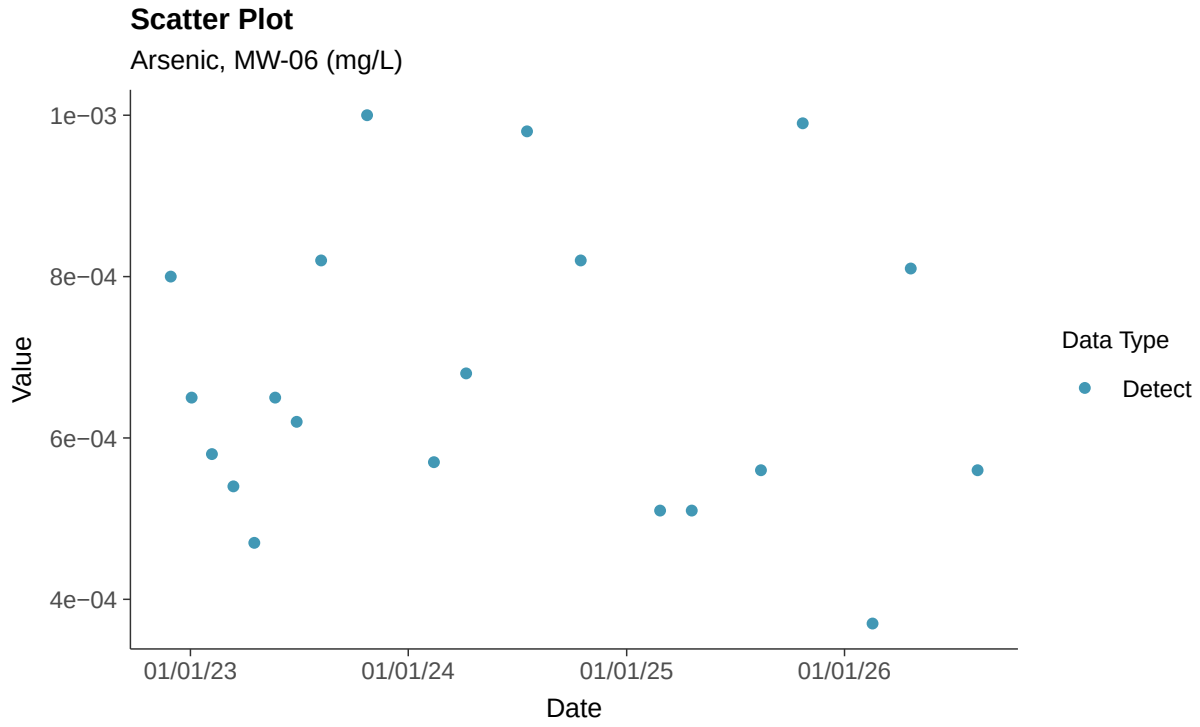
Trend Regression: Piecewise Linear-Linear-Linear

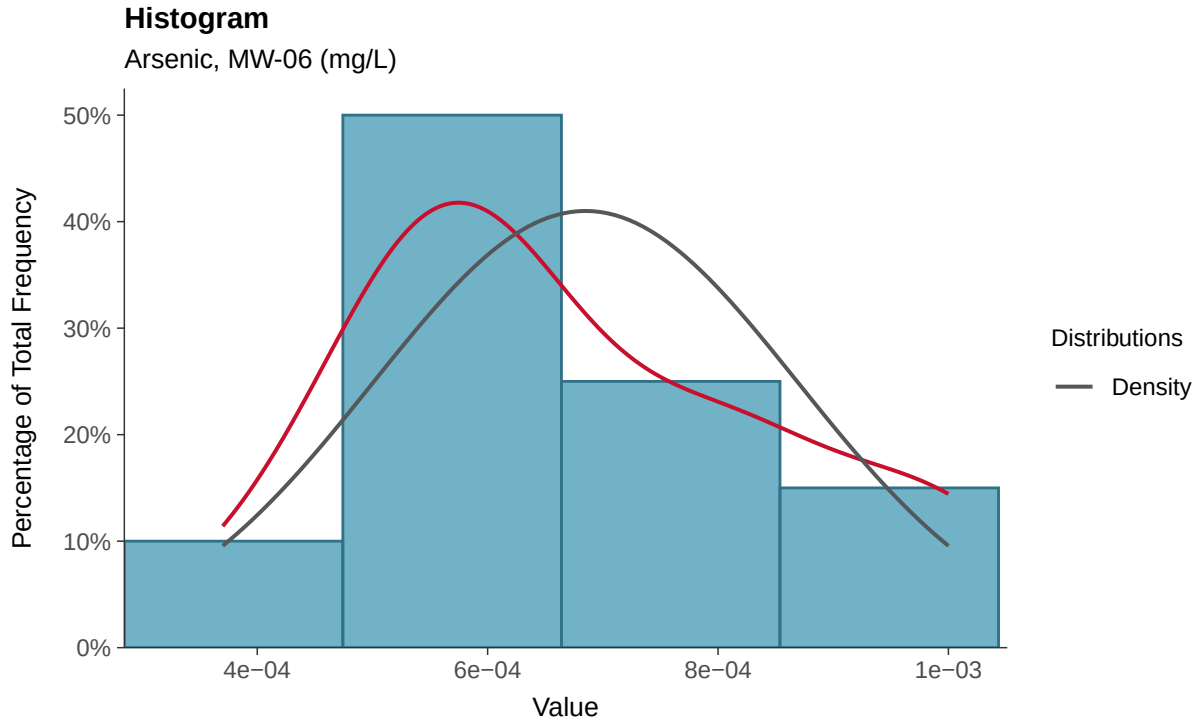
Antimony, MW-06 (mg/L)



Appendix IV: Arsenic, MW-06

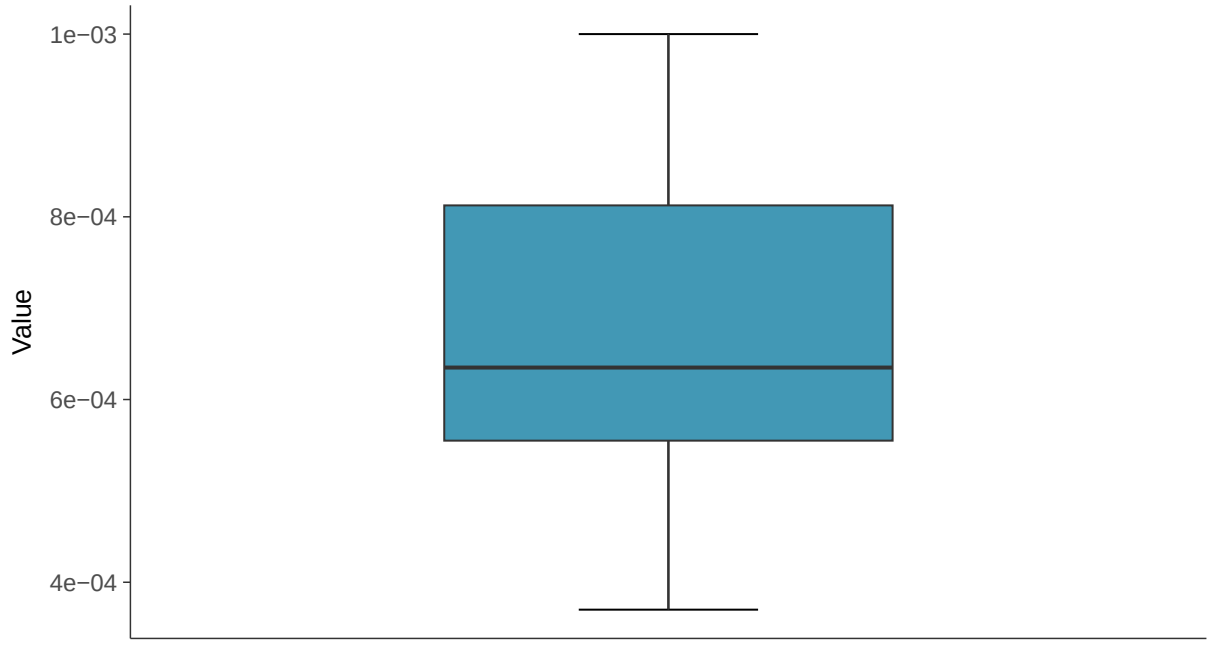
ID: 16_1_4_102





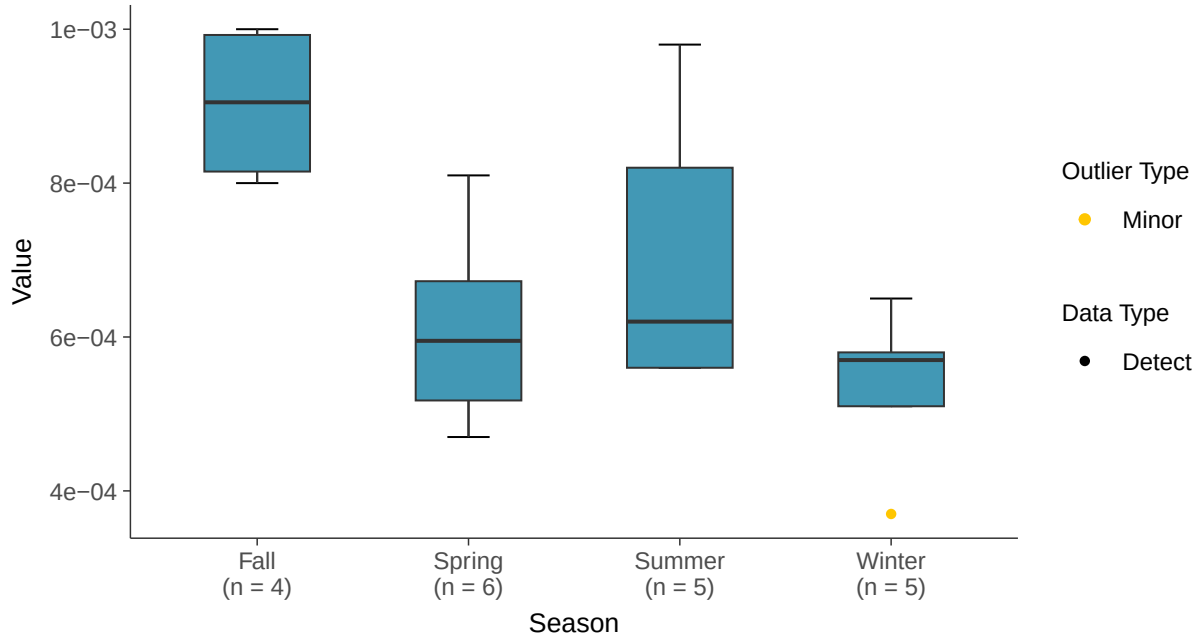
Boxplot

Arsenic, MW-06 (mg/L)



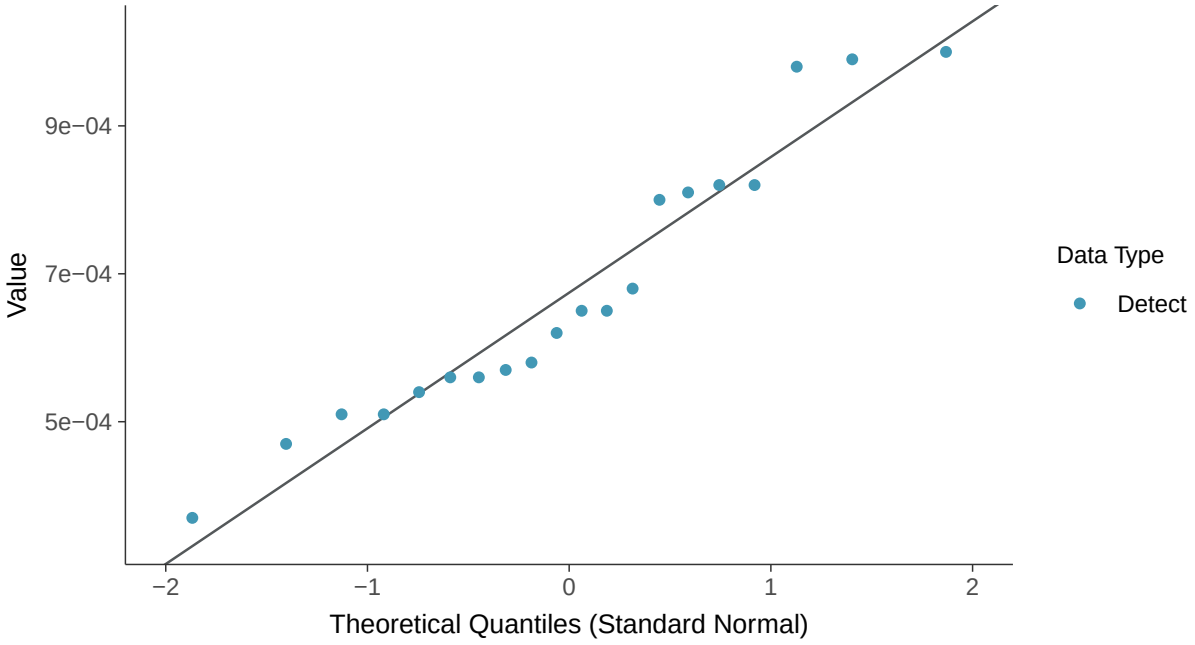
Boxplot by Season

Arsenic, MW-06 (mg/L)



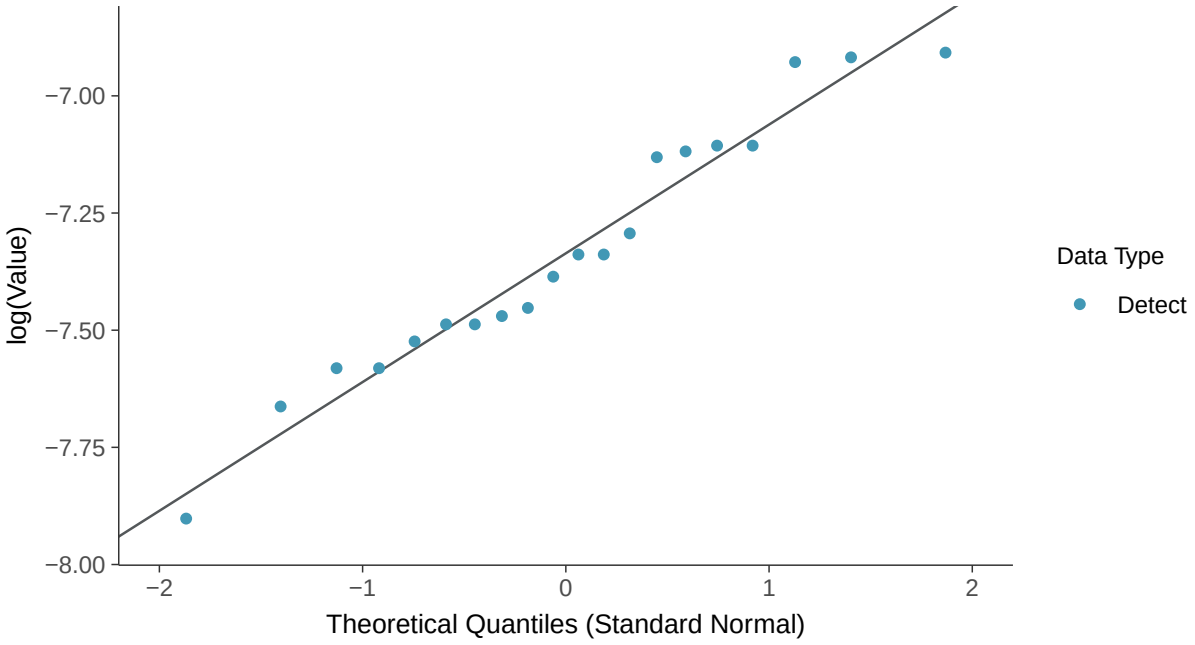
Normal Q-Q plot

Arsenic, MW-06 (mg/L)



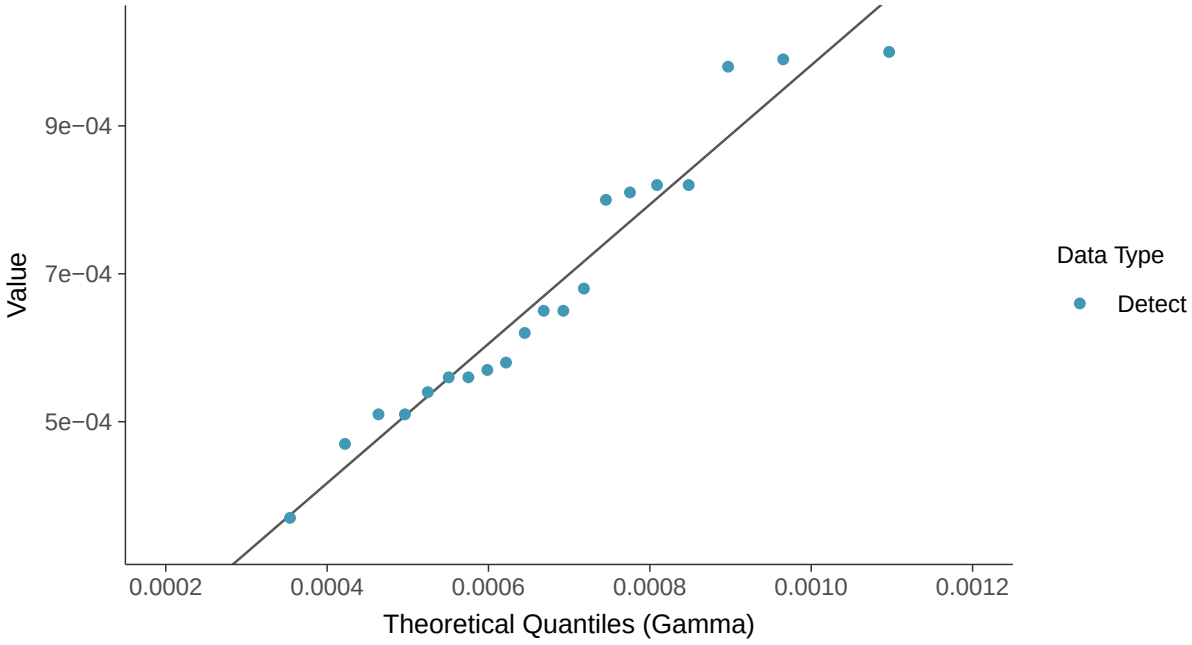
Lognormal Q-Q plot

Arsenic, MW-06 (mg/L)



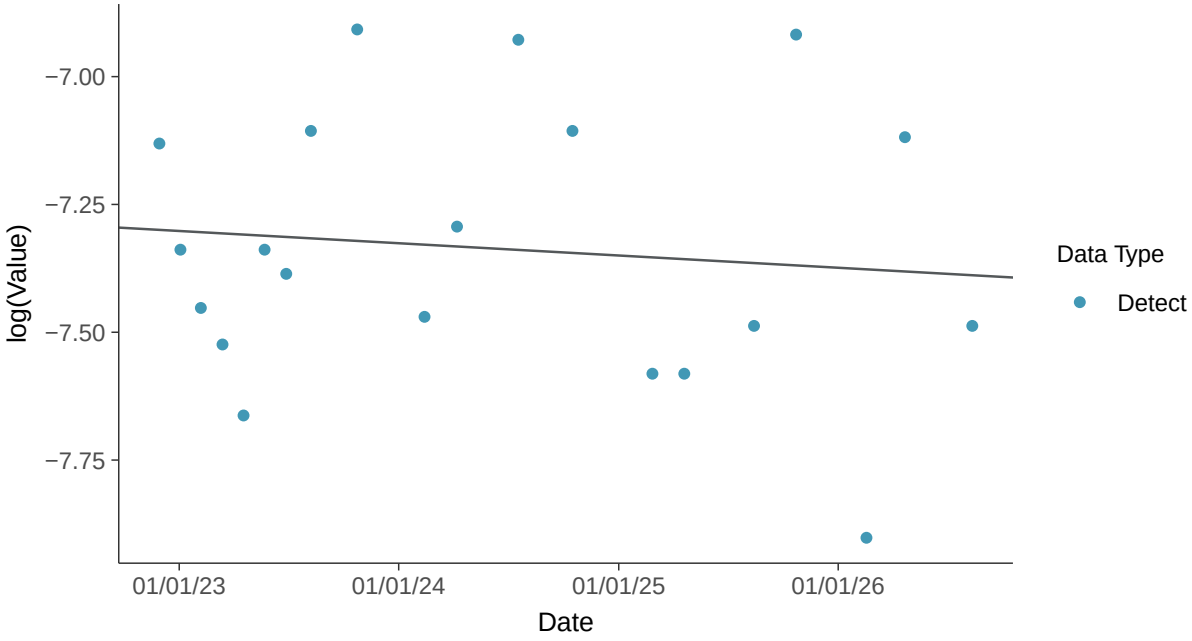
Gamma Q-Q plot

Arsenic, MW-06 (mg/L)



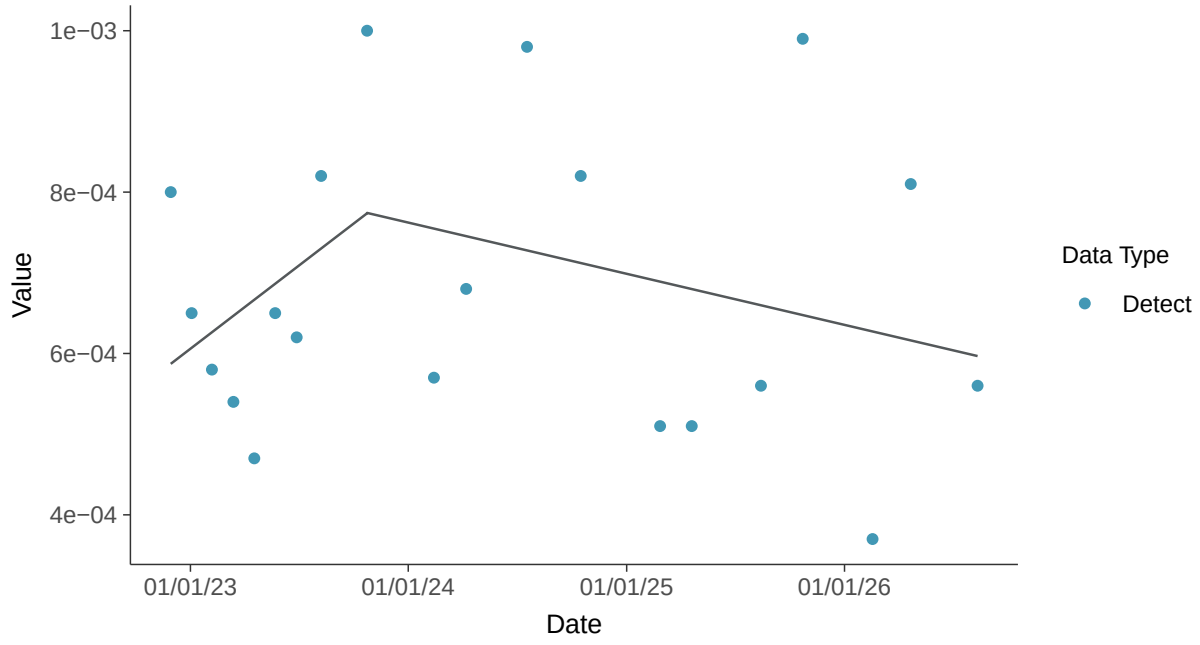
Trend Regression: Lognormal MLE

Arsenic, MW-06 (mg/L)



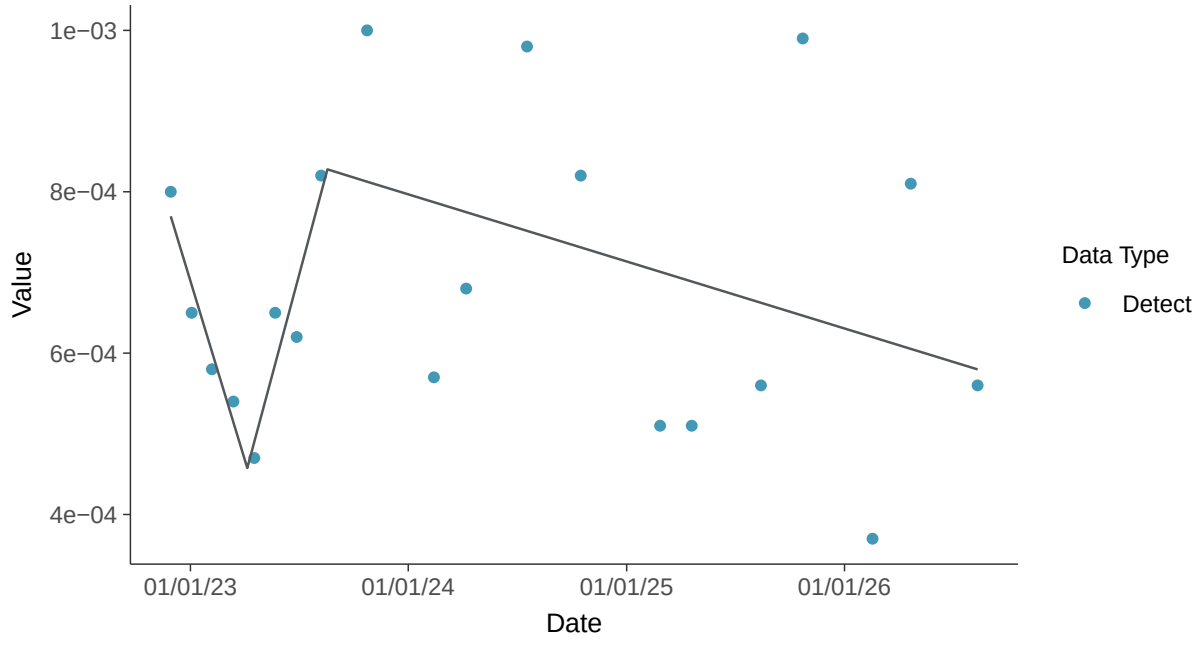
Trend Regression: Piecewise Linear-Linear

Arsenic, MW-06 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Arsenic, MW-06 (mg/L)

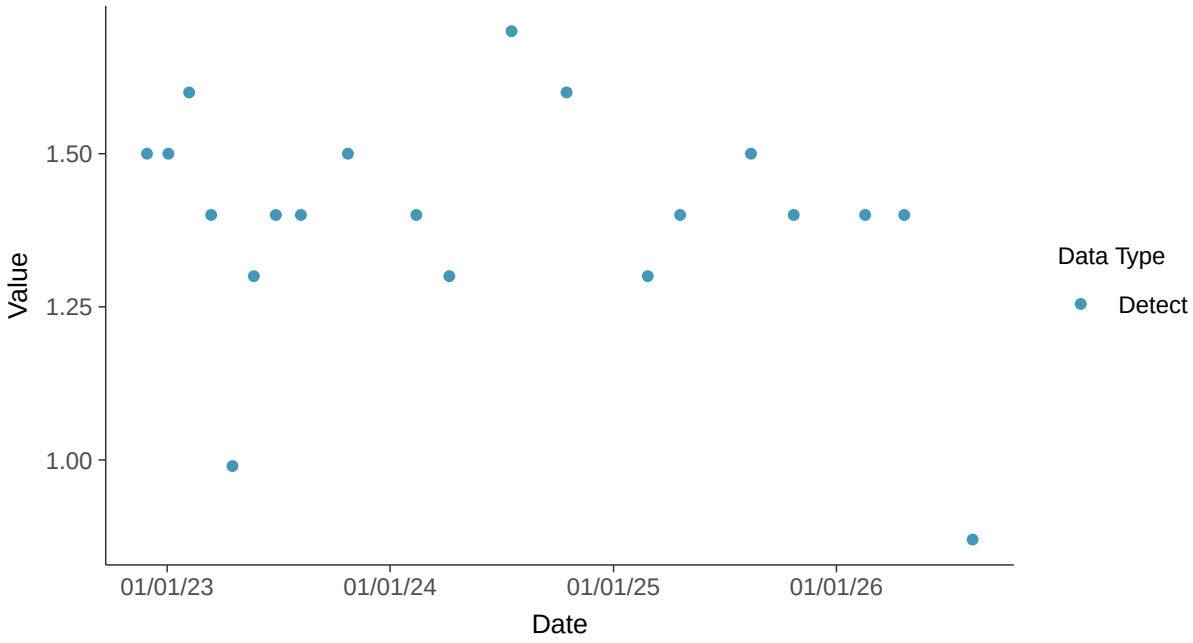


Appendix IV: Barium, MW-06

ID: 16_1_4_103

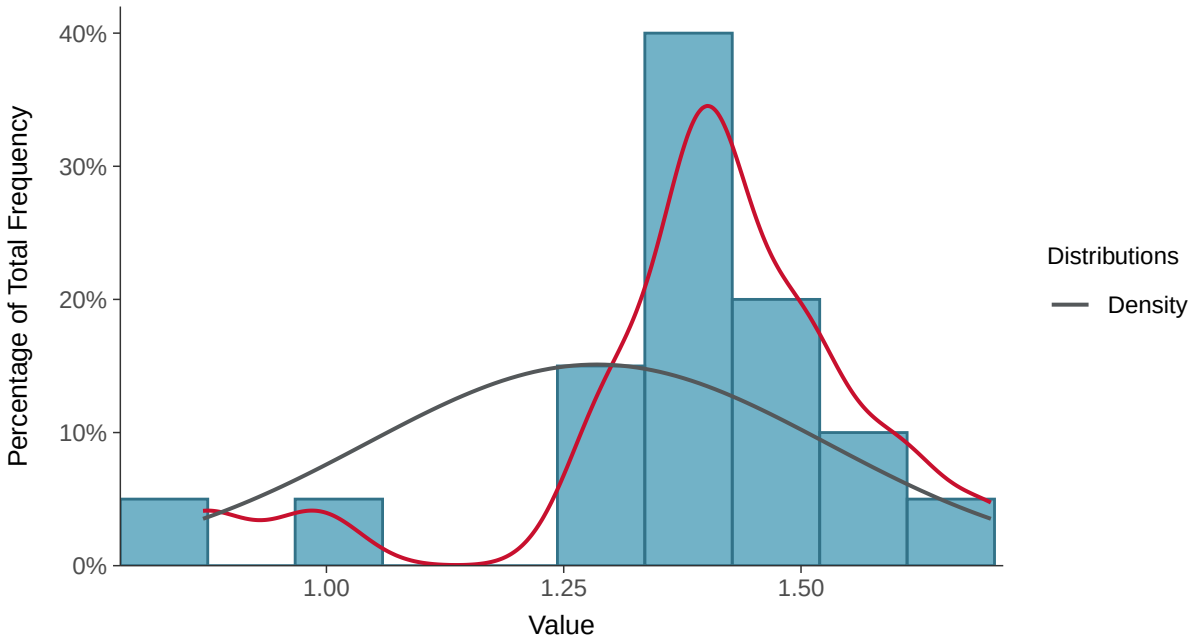
Scatter Plot

Barium, MW-06 (mg/L)



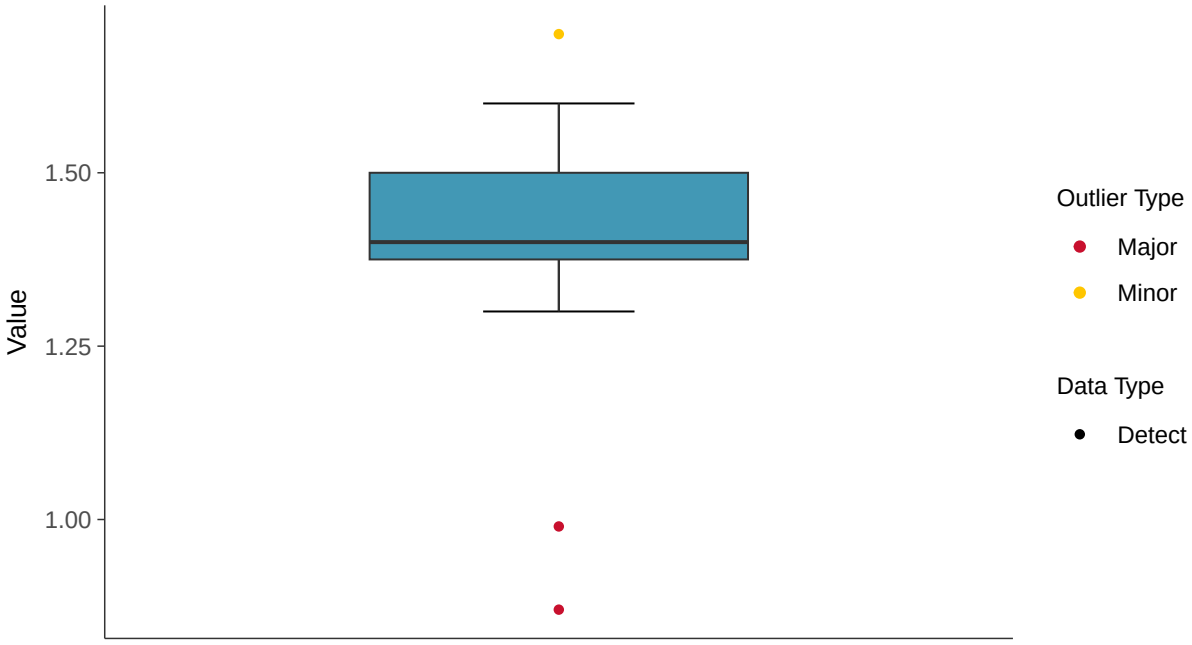
Histogram

Barium, MW-06 (mg/L)



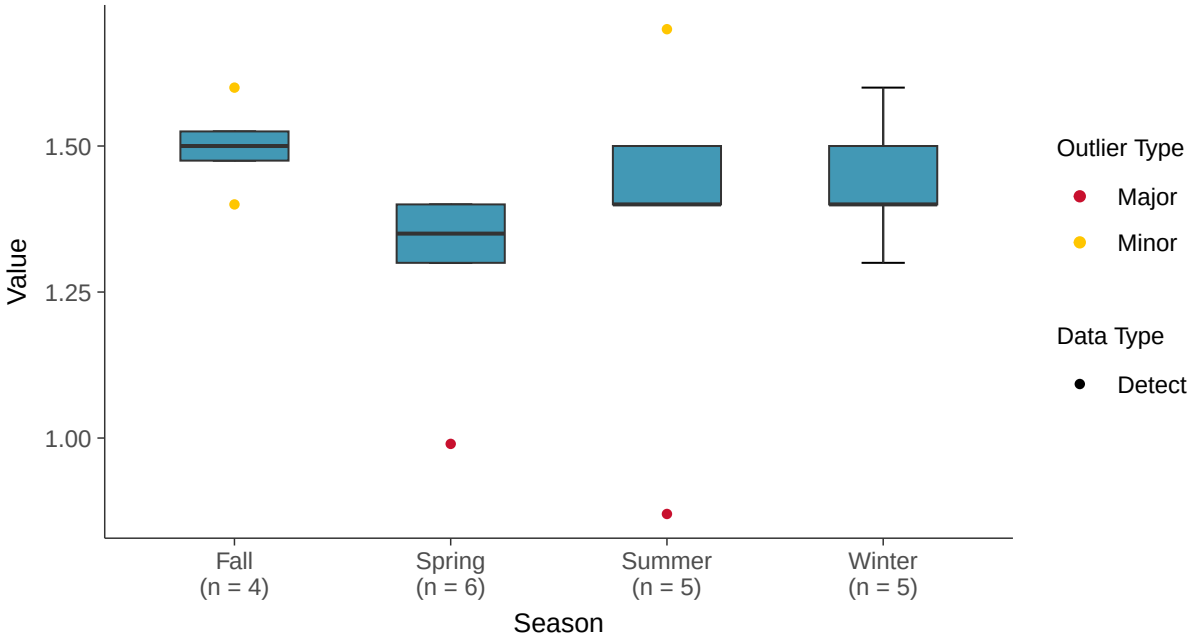
Boxplot

Barium, MW-06 (mg/L)



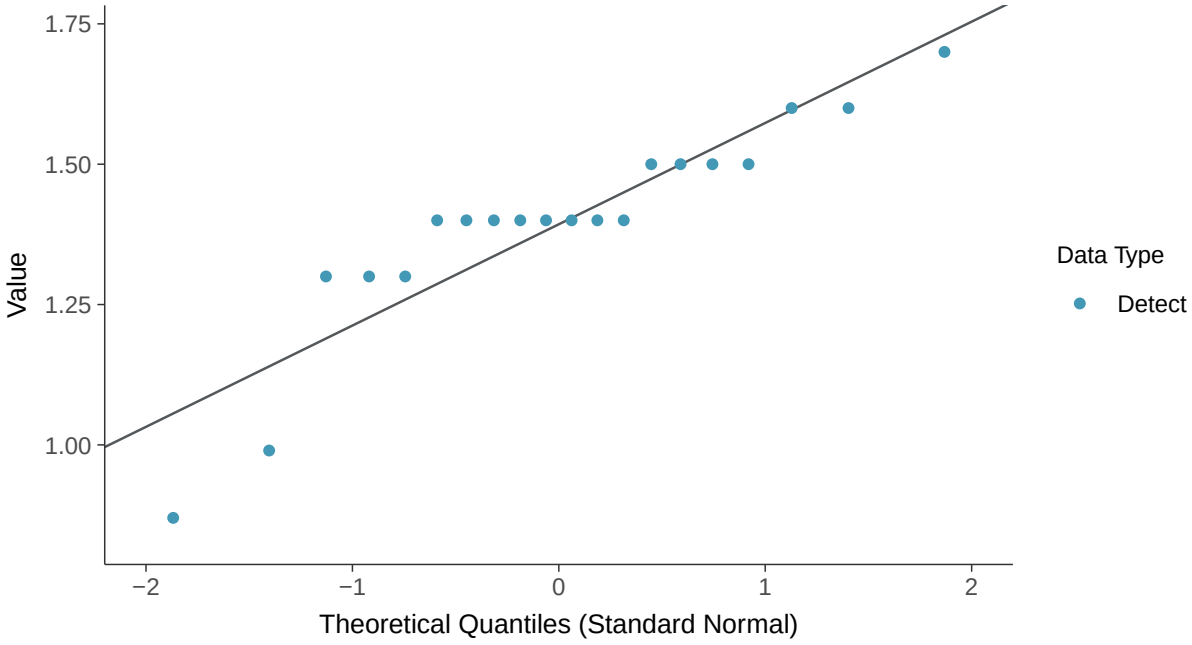
Boxplot by Season

Barium, MW-06 (mg/L)



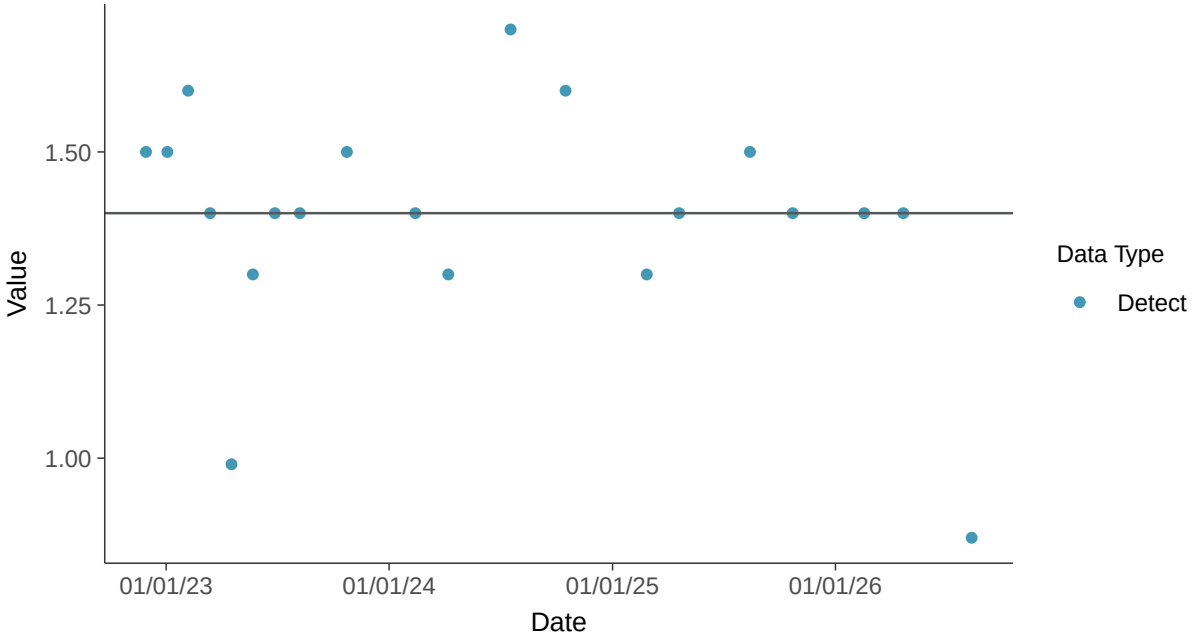
Normal Q-Q plot

Barium, MW-06 (mg/L)



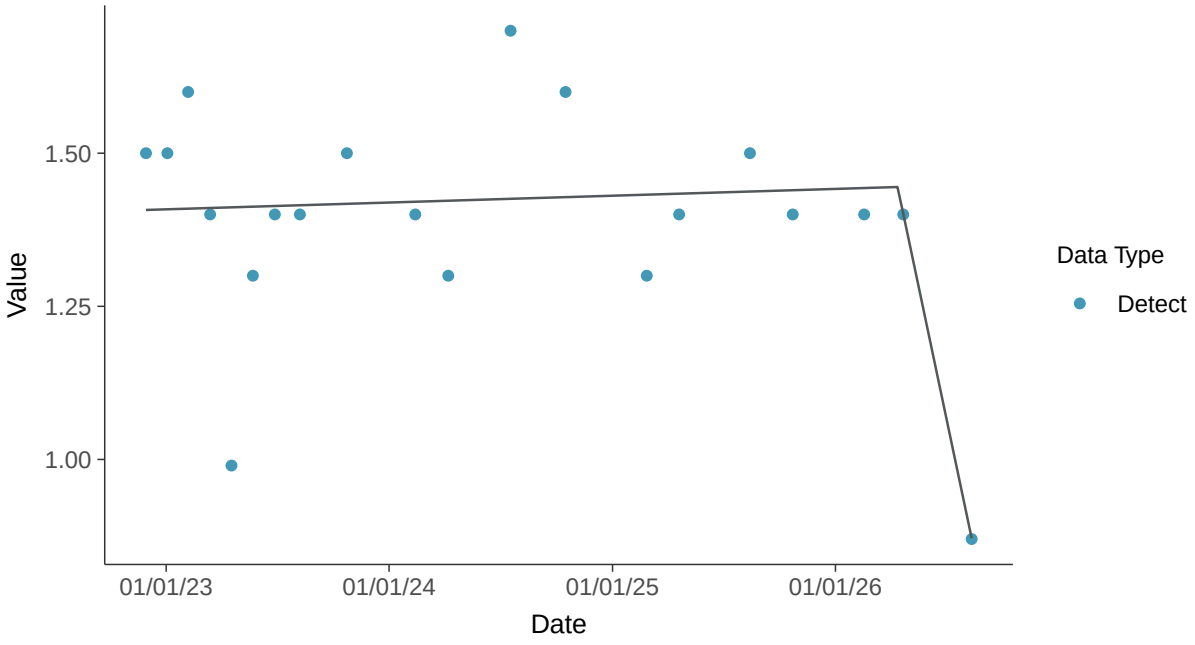
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Barium, MW-06 (mg/L)



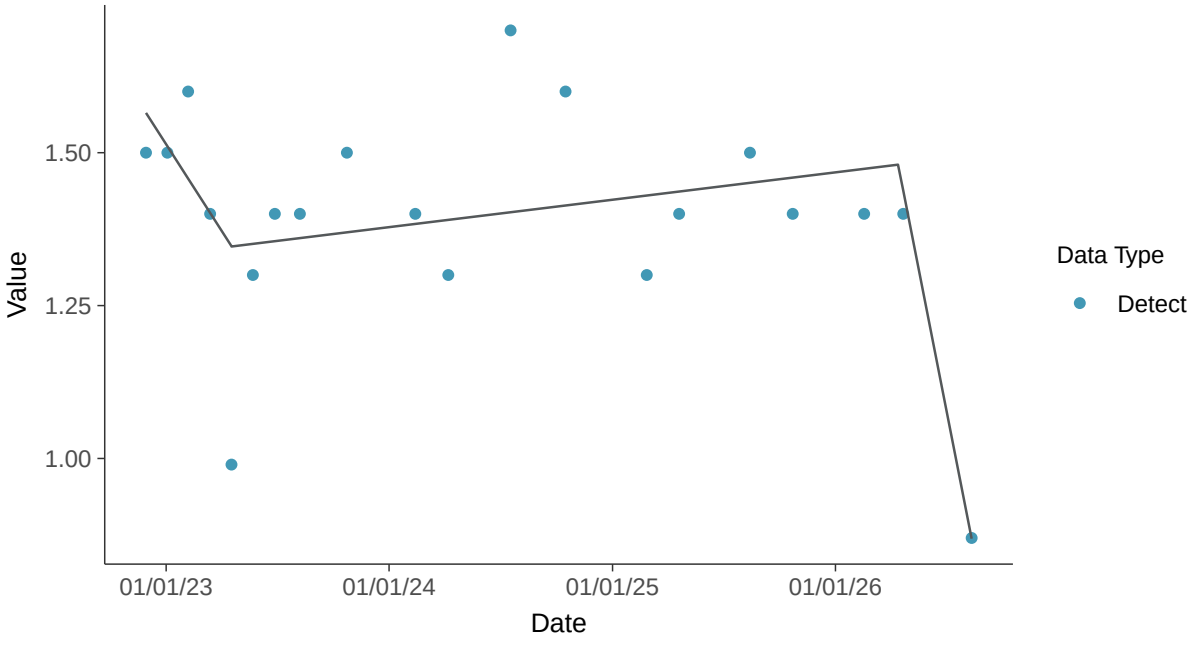
Trend Regression: Piecewise Linear-Linear

Barium, MW-06 (mg/L)



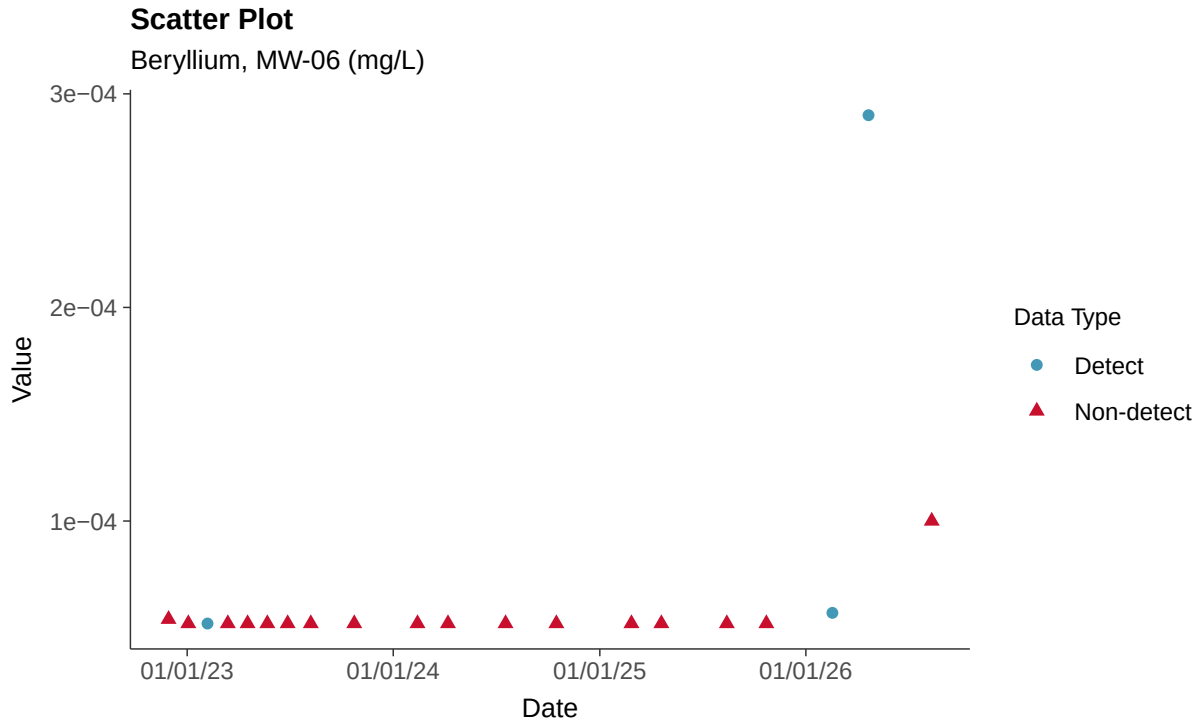
Trend Regression: Piecewise Linear-Linear-Linear

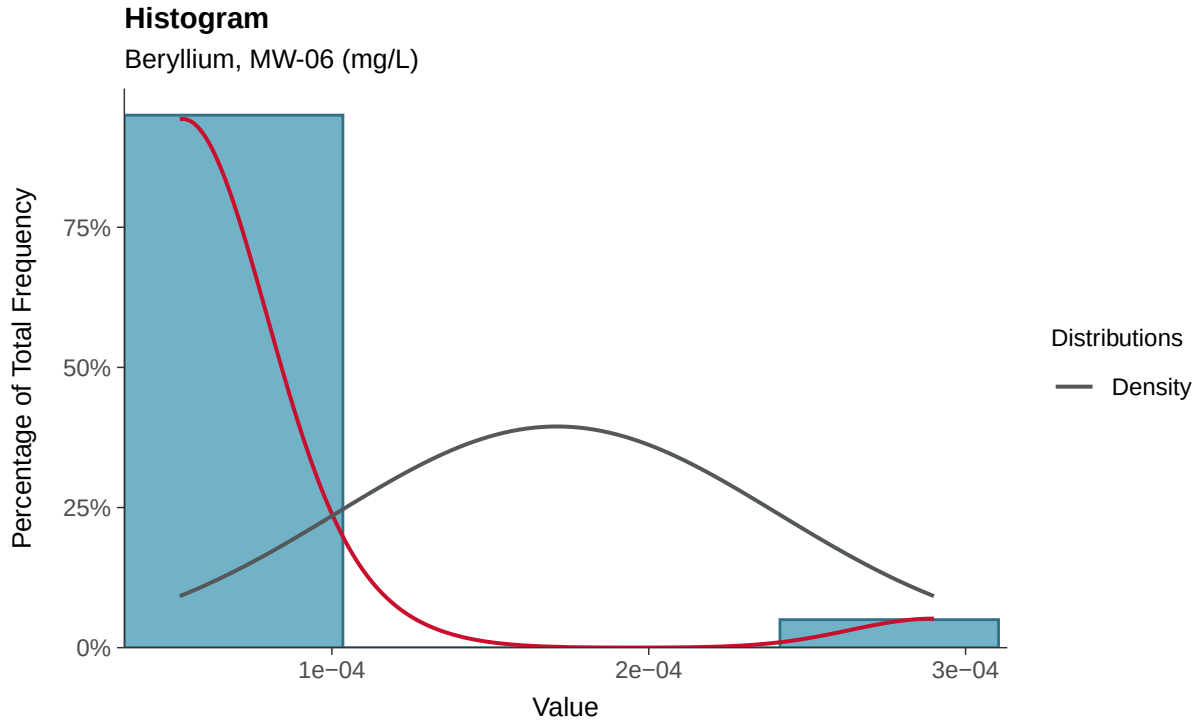
Barium, MW-06 (mg/L)



Appendix IV: Beryllium, MW-06

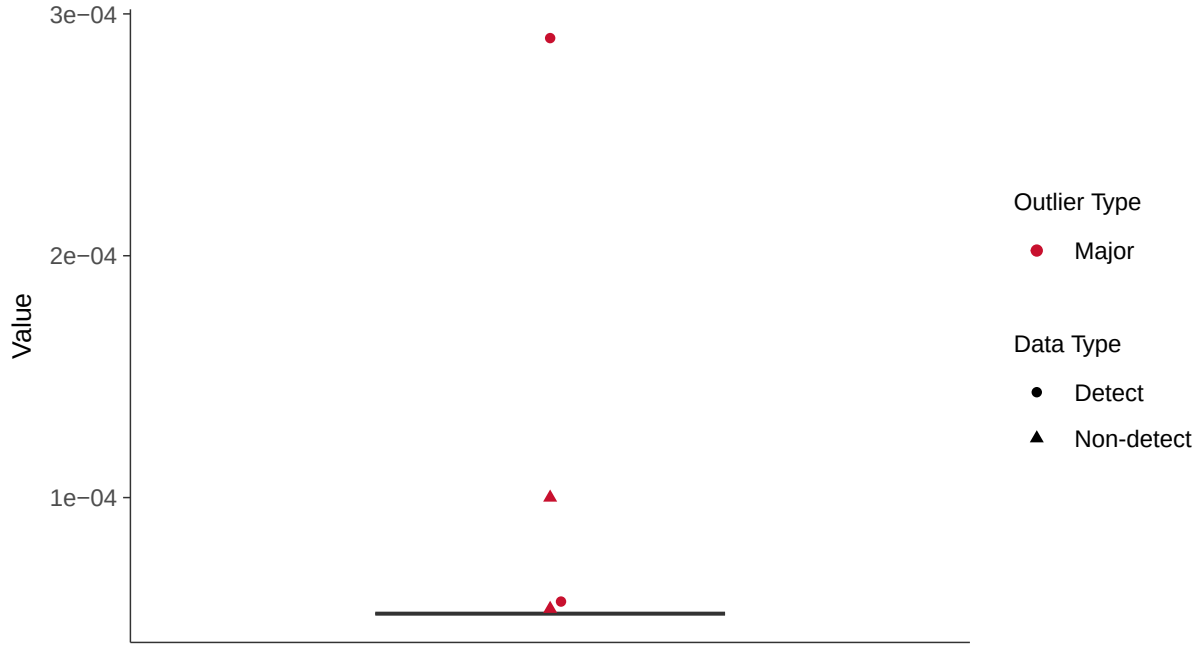
ID: 16_1_4_104





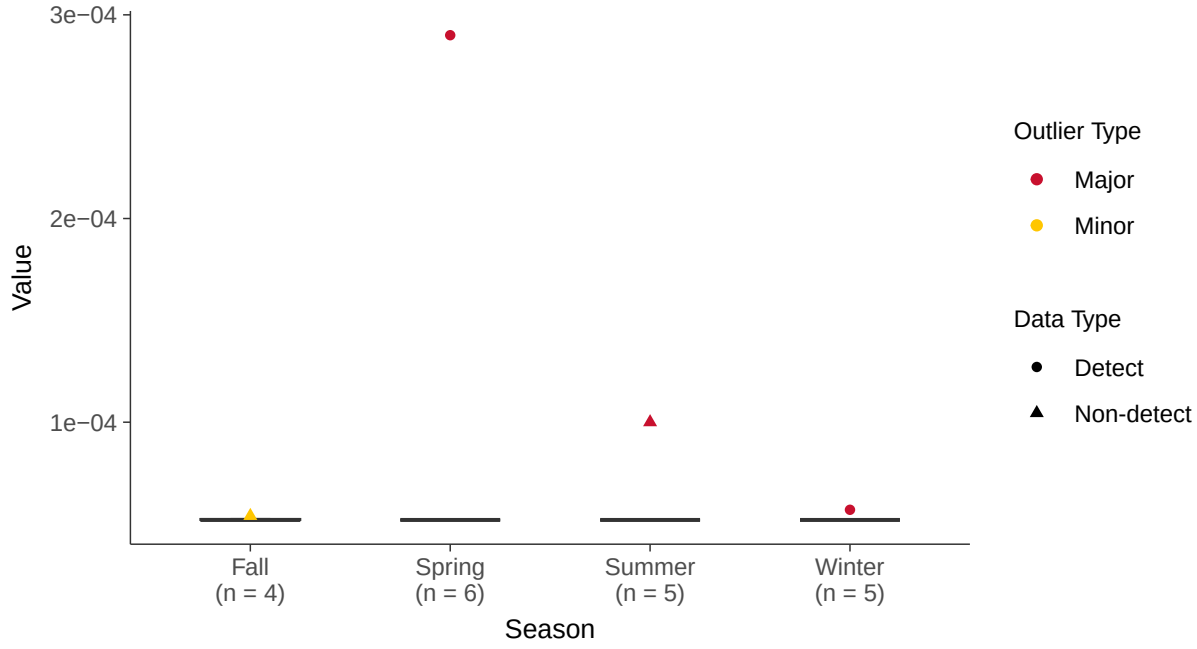
Boxplot

Beryllium, MW-06 (mg/L)



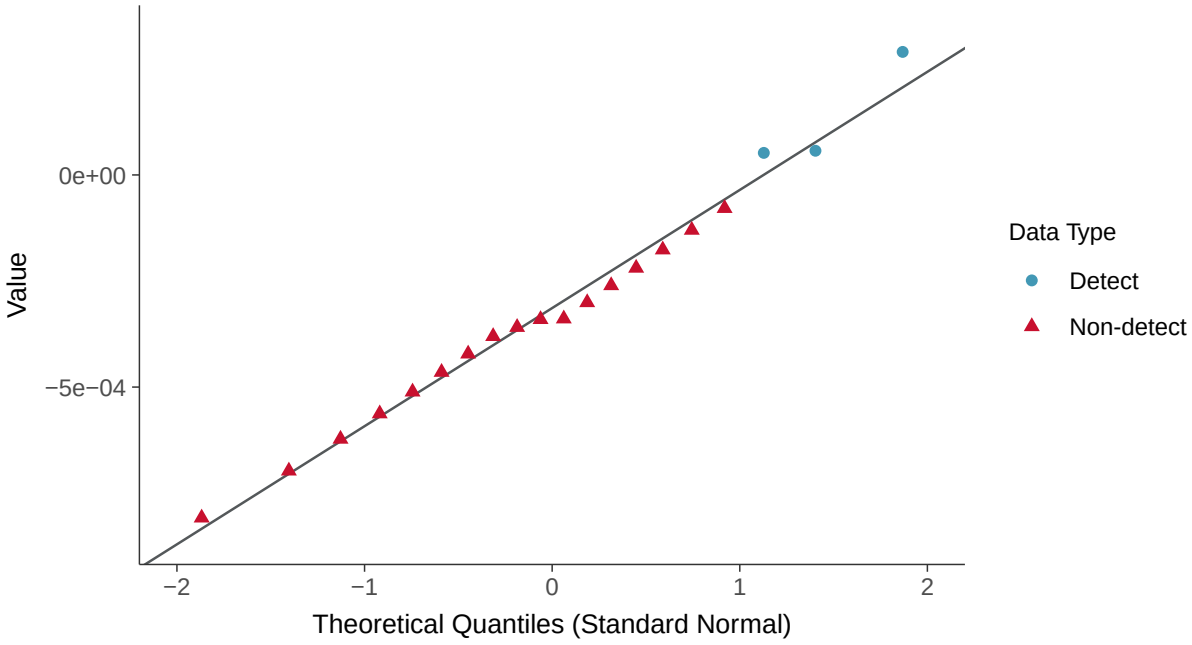
Boxplot by Season

Beryllium, MW-06 (mg/L)



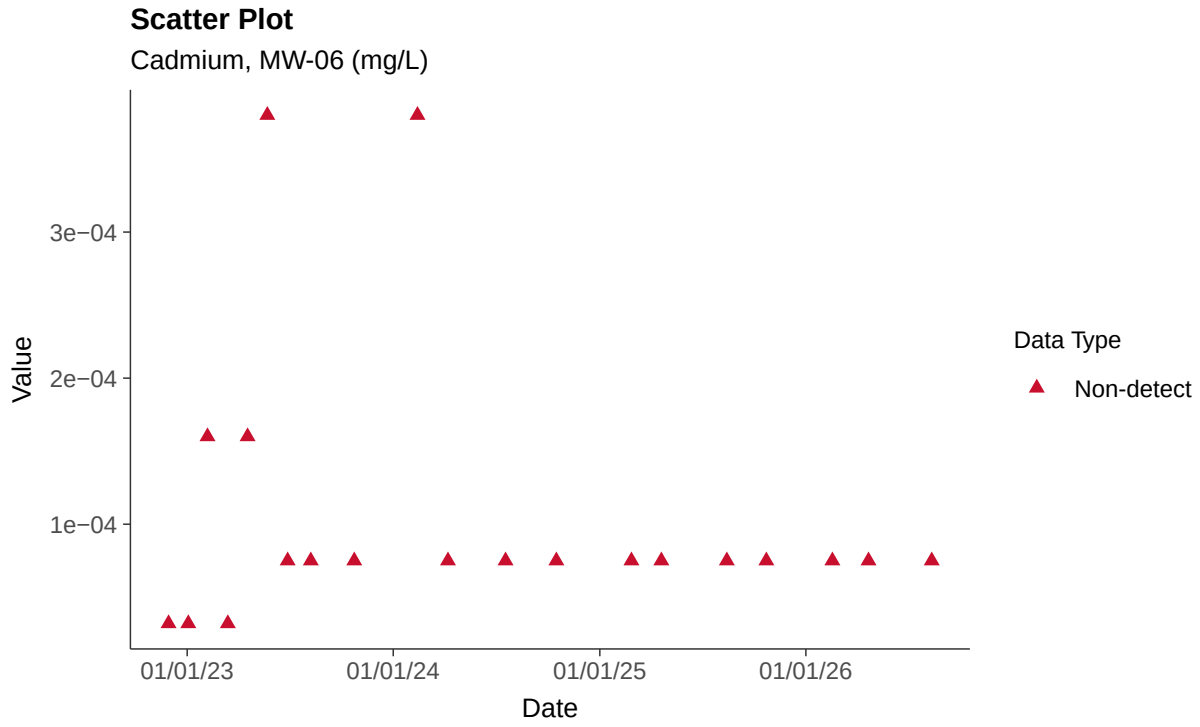
Normal Q-Q plot using ROS Imputed Estimates

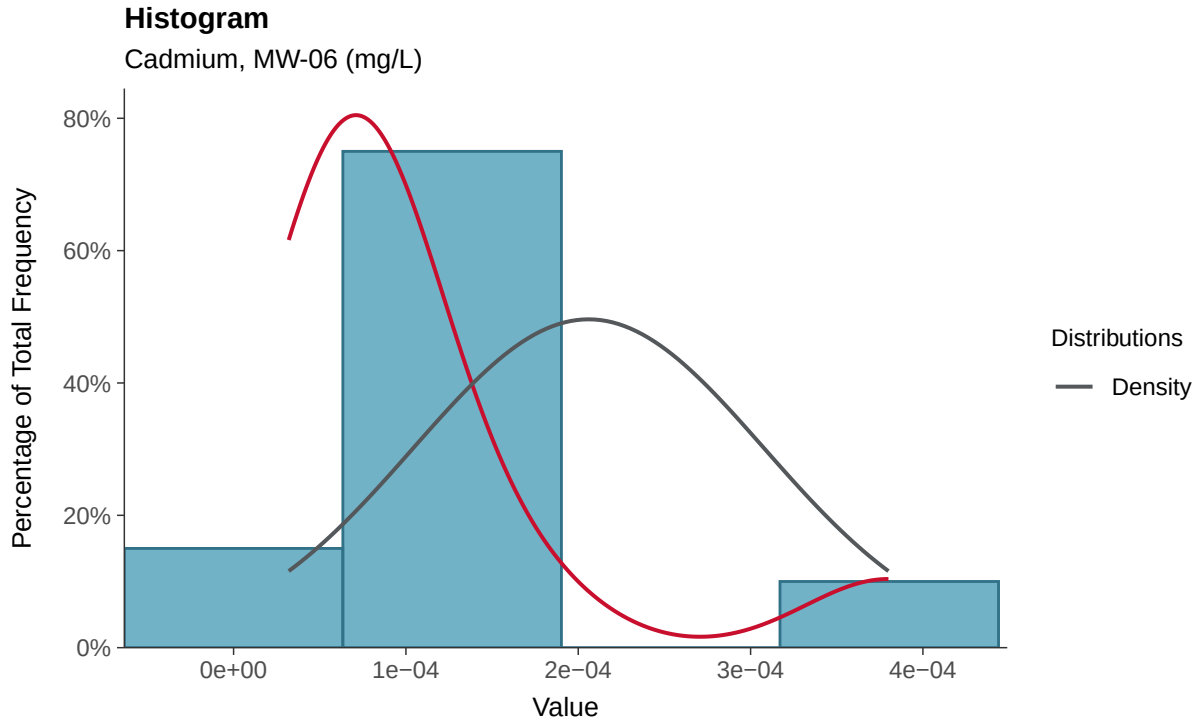
Beryllium, MW-06 (mg/L)



Appendix IV: Cadmium, MW-06

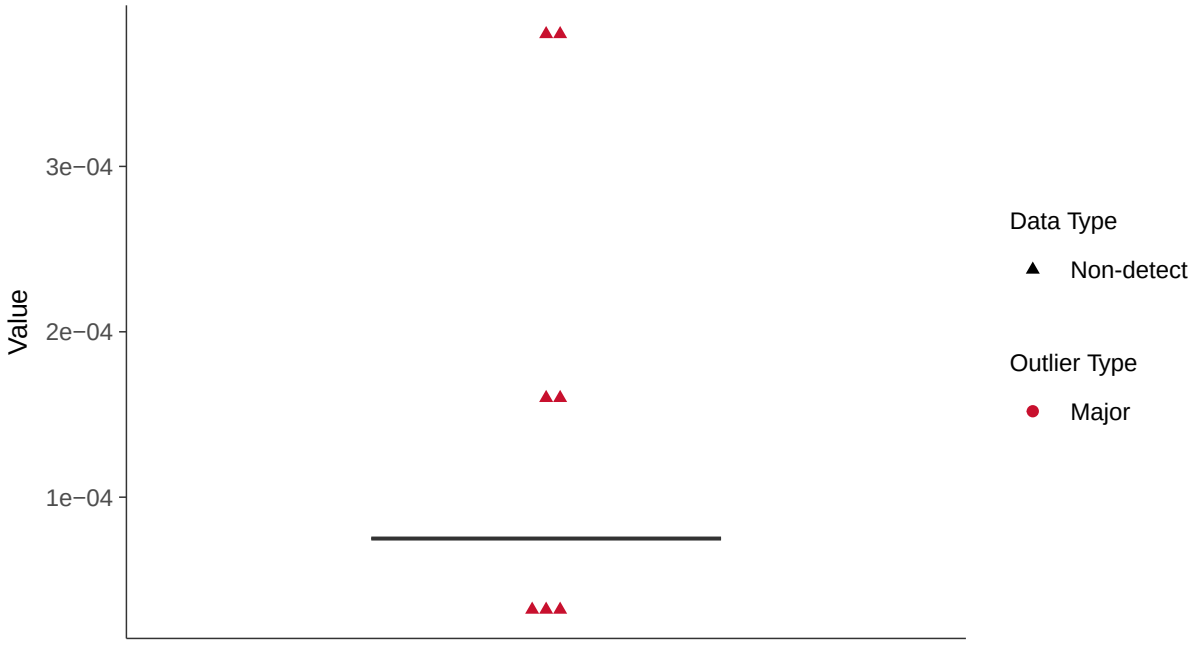
ID: 16_1_4_106





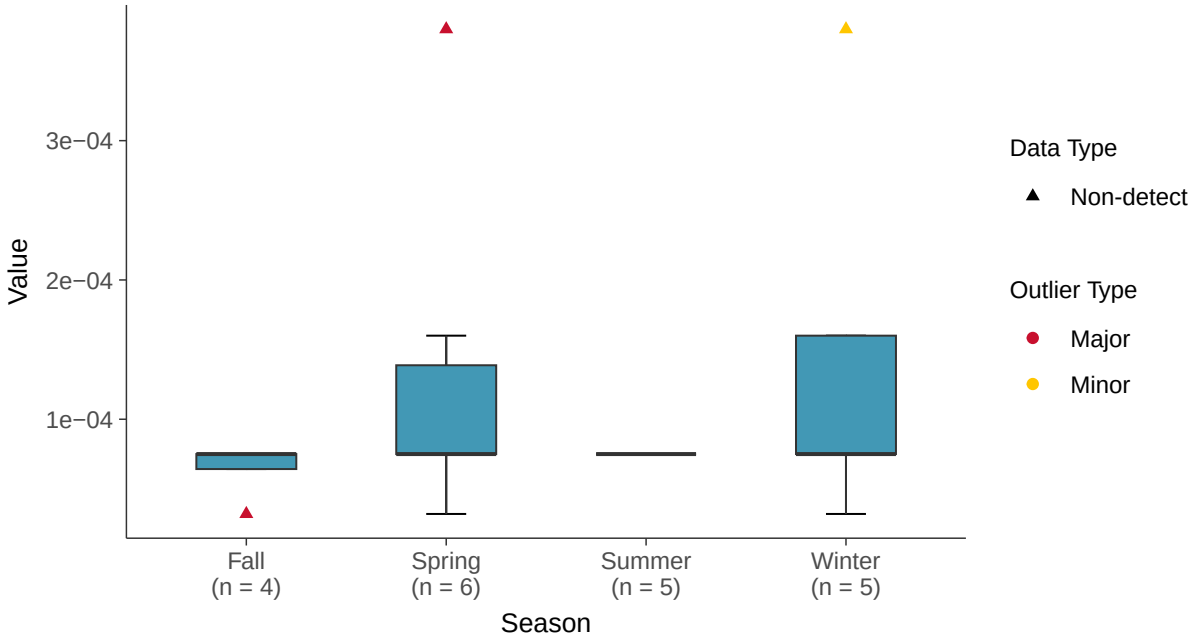
Boxplot

Cadmium, MW-06 (mg/L)



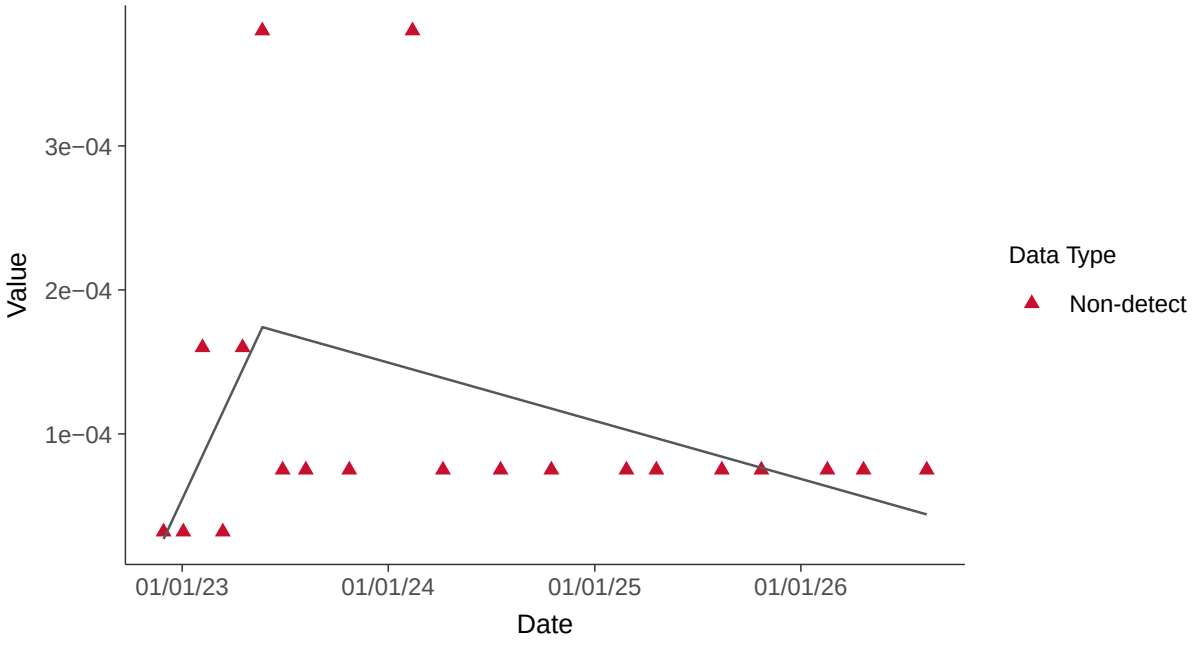
Boxplot by Season

Cadmium, MW-06 (mg/L)



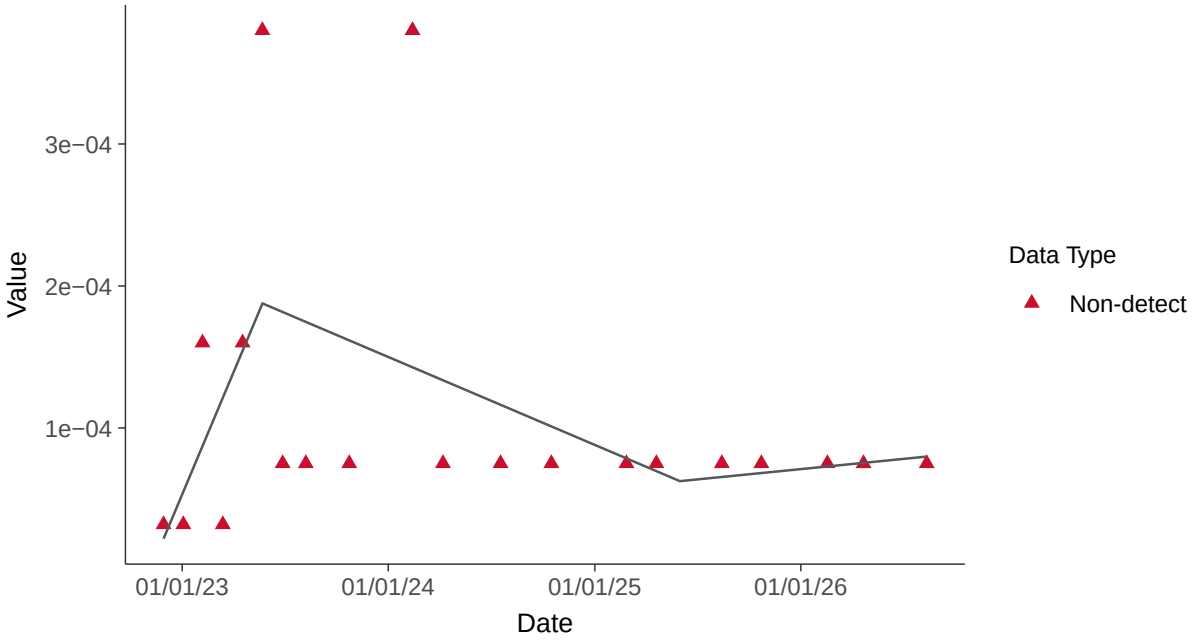
Trend Regression: Piecewise Linear-Linear

Cadmium, MW-06 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Cadmium, MW-06 (mg/L)

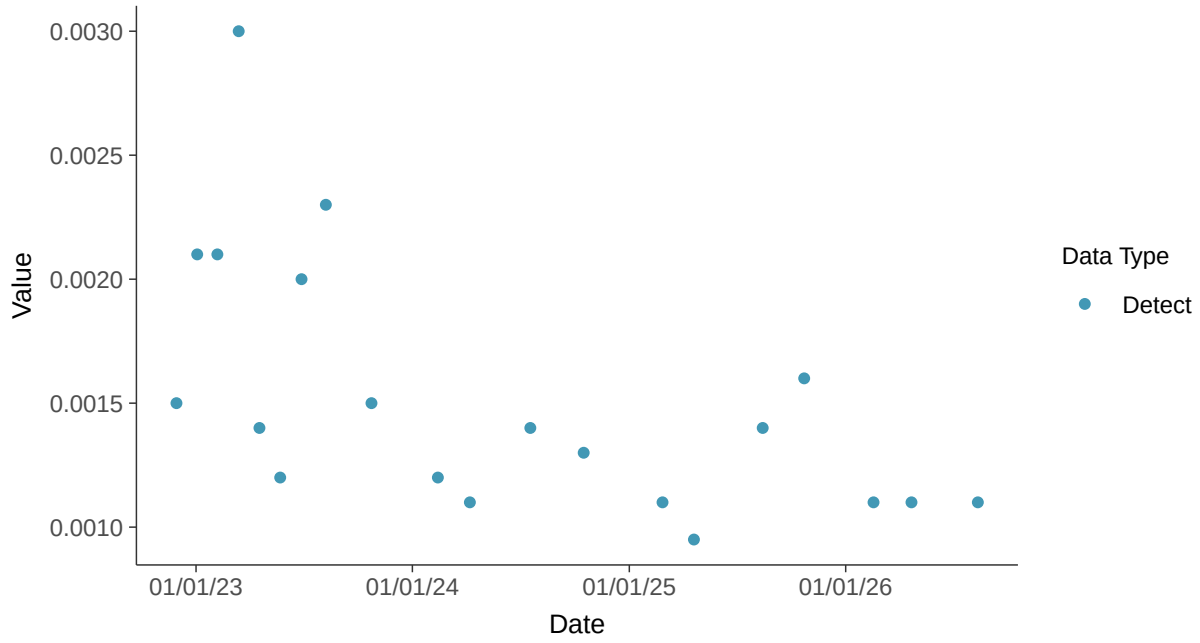


Appendix IV: Chromium, Total, MW-06

ID: 16_1_4_109

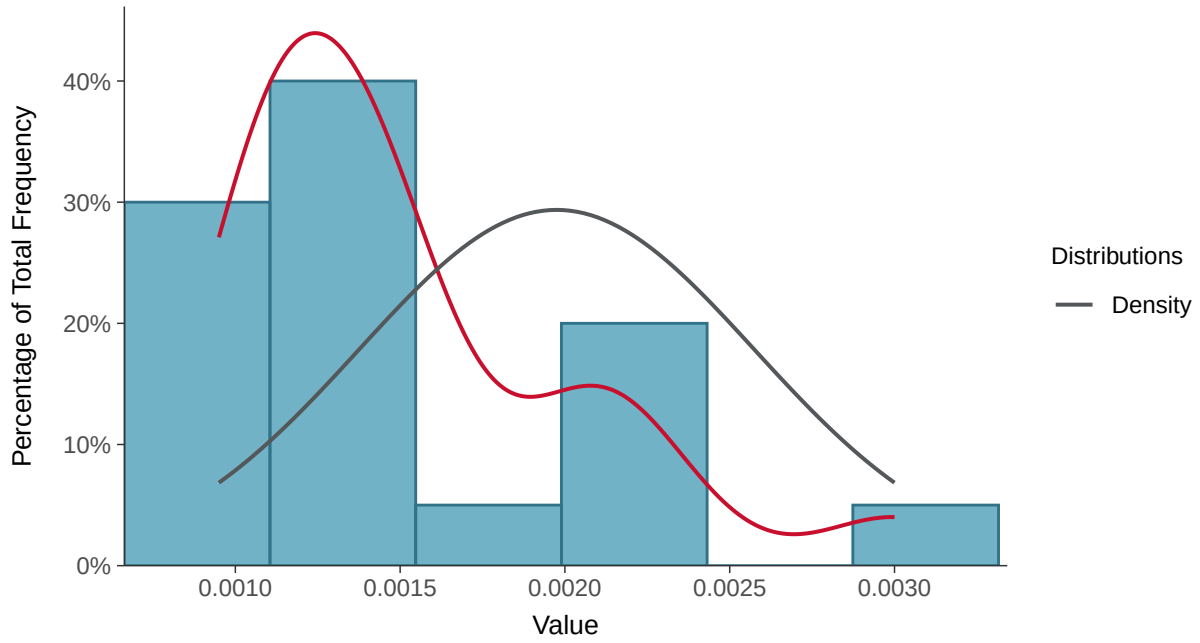
Scatter Plot

Chromium, Total, MW-06 (mg/L)



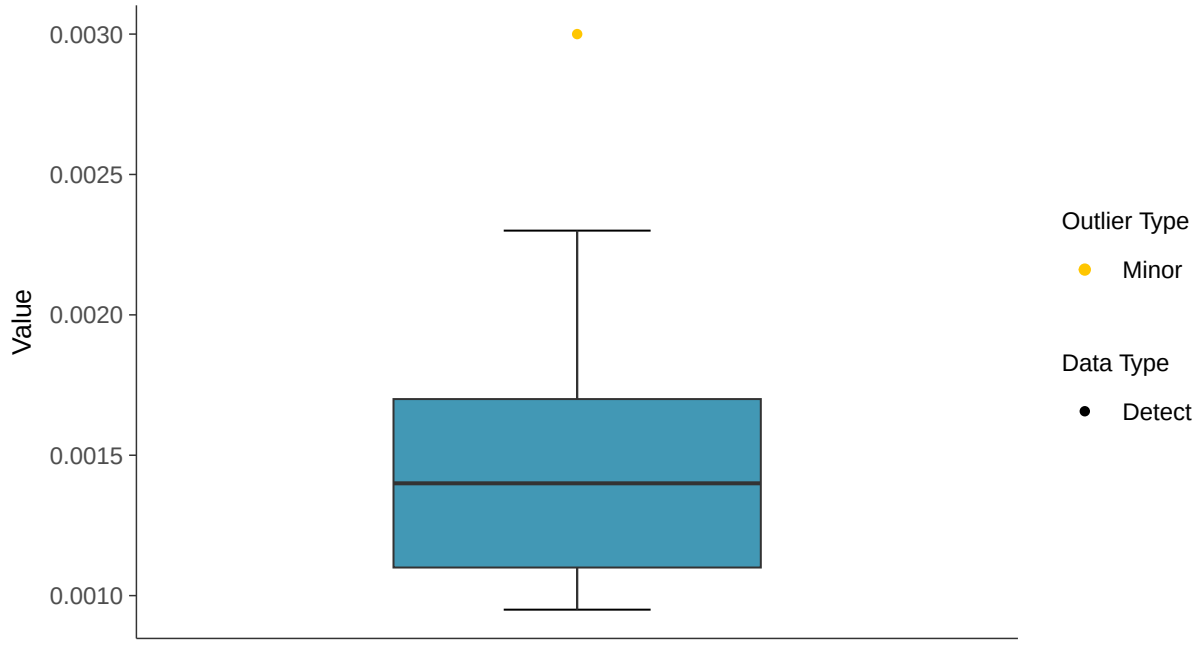
Histogram

Chromium, Total, MW-06 (mg/L)



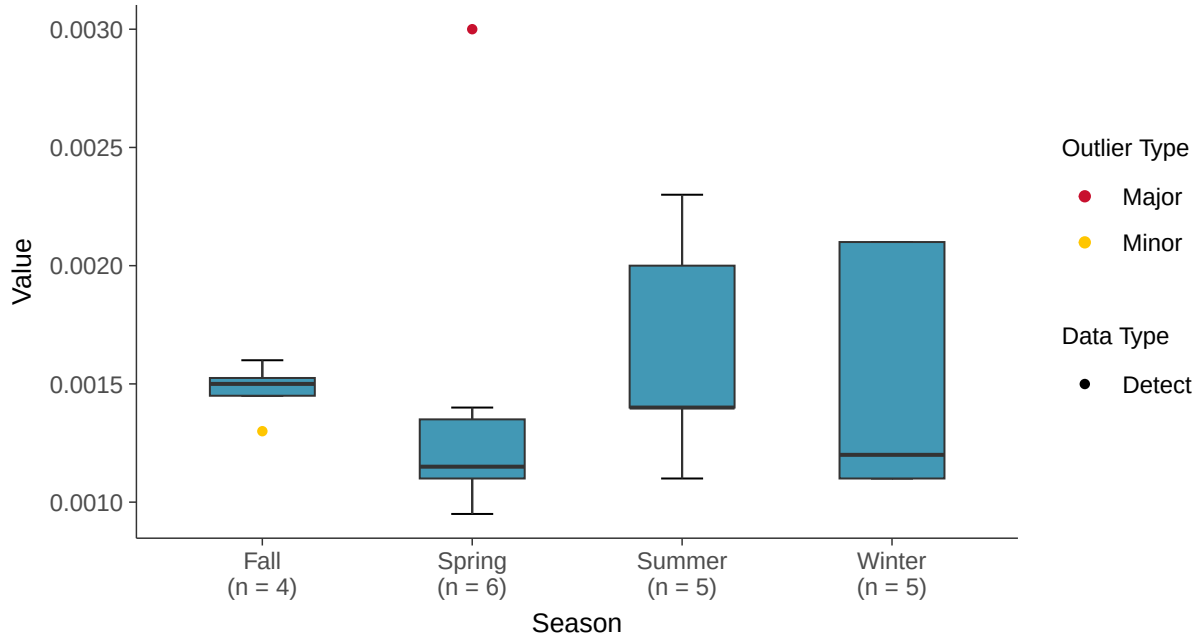
Boxplot

Chromium, Total, MW-06 (mg/L)



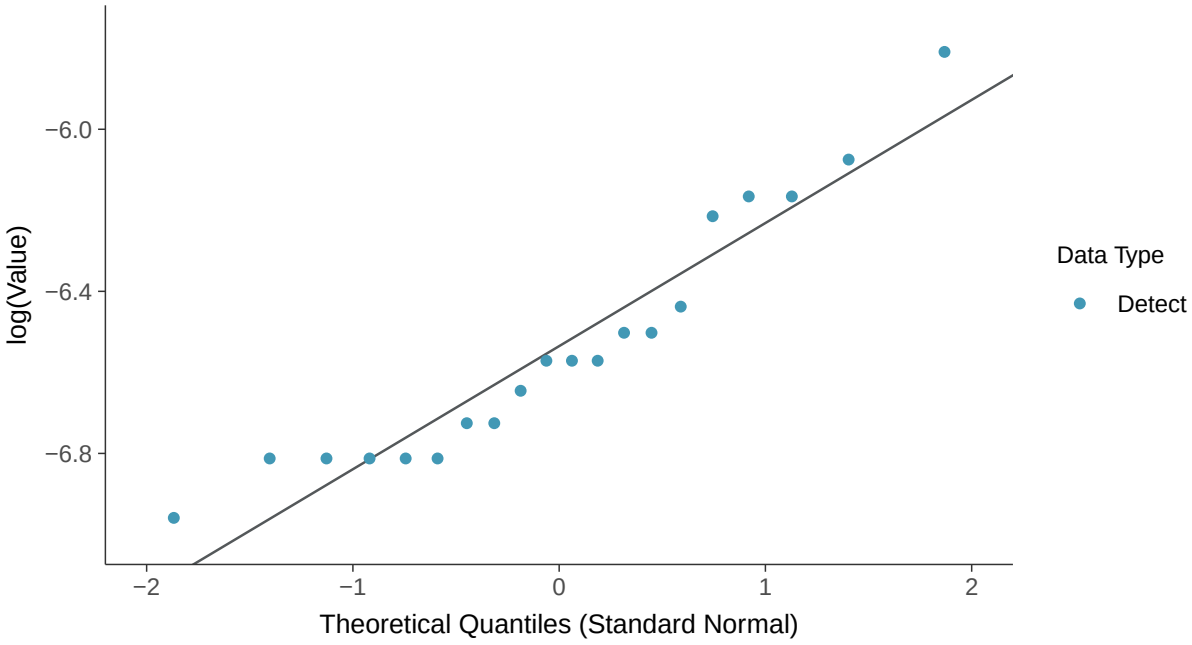
Boxplot by Season

Chromium, Total, MW-06 (mg/L)



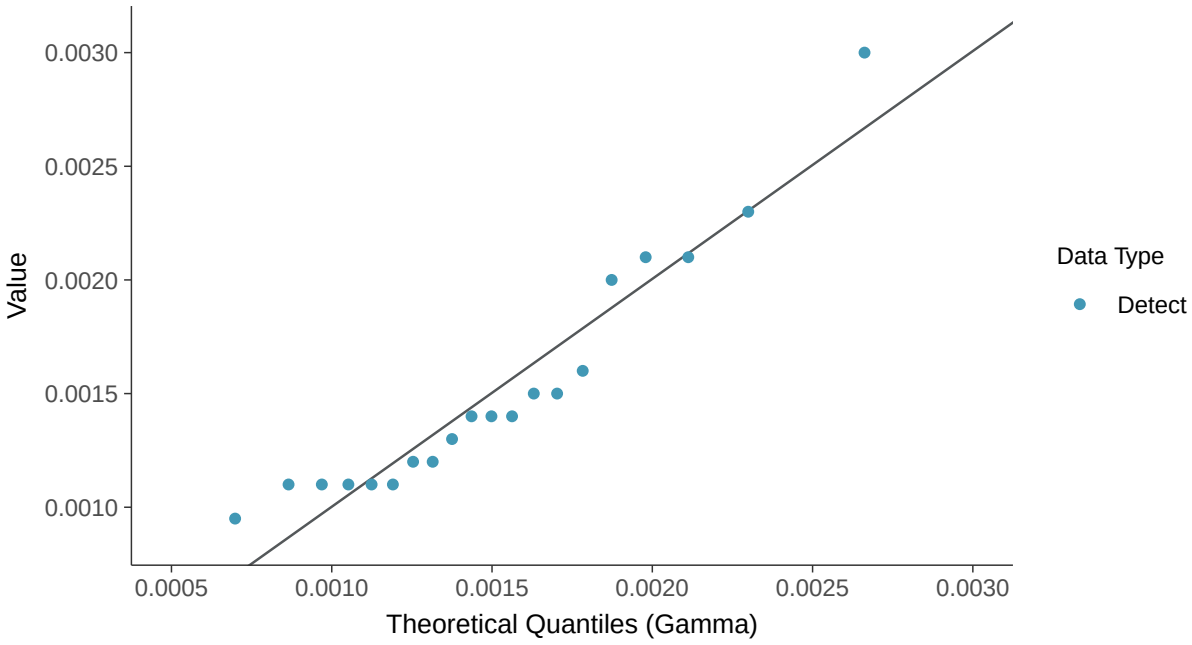
Lognormal Q-Q plot

Chromium, Total, MW-06 (mg/L)



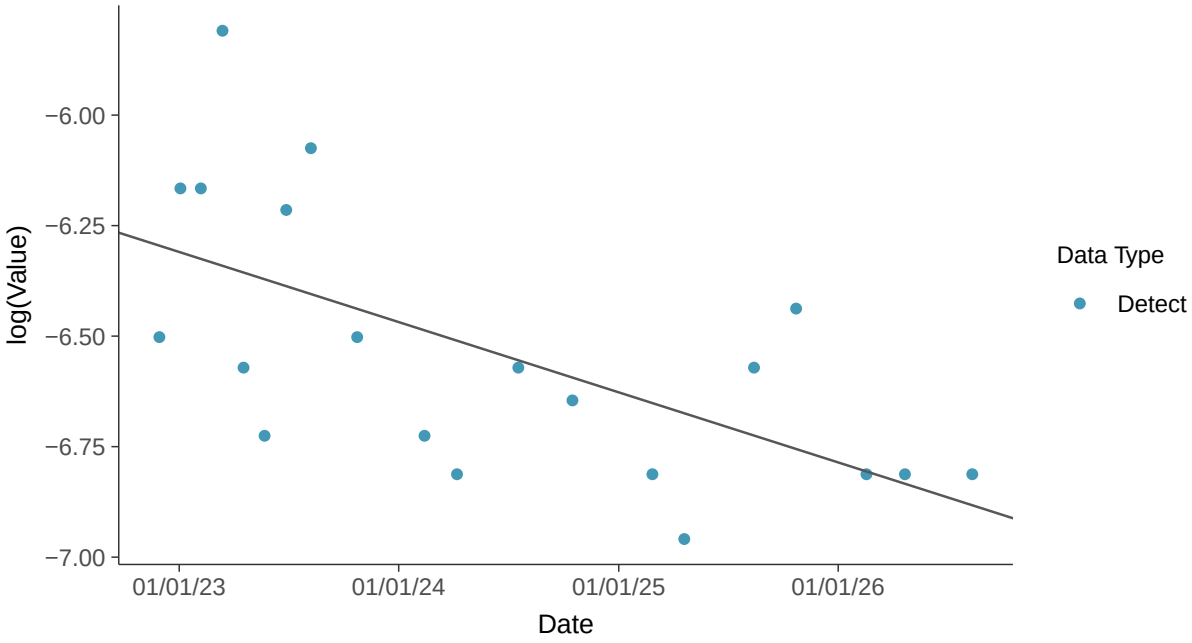
Gamma Q-Q plot

Chromium, Total, MW-06 (mg/L)



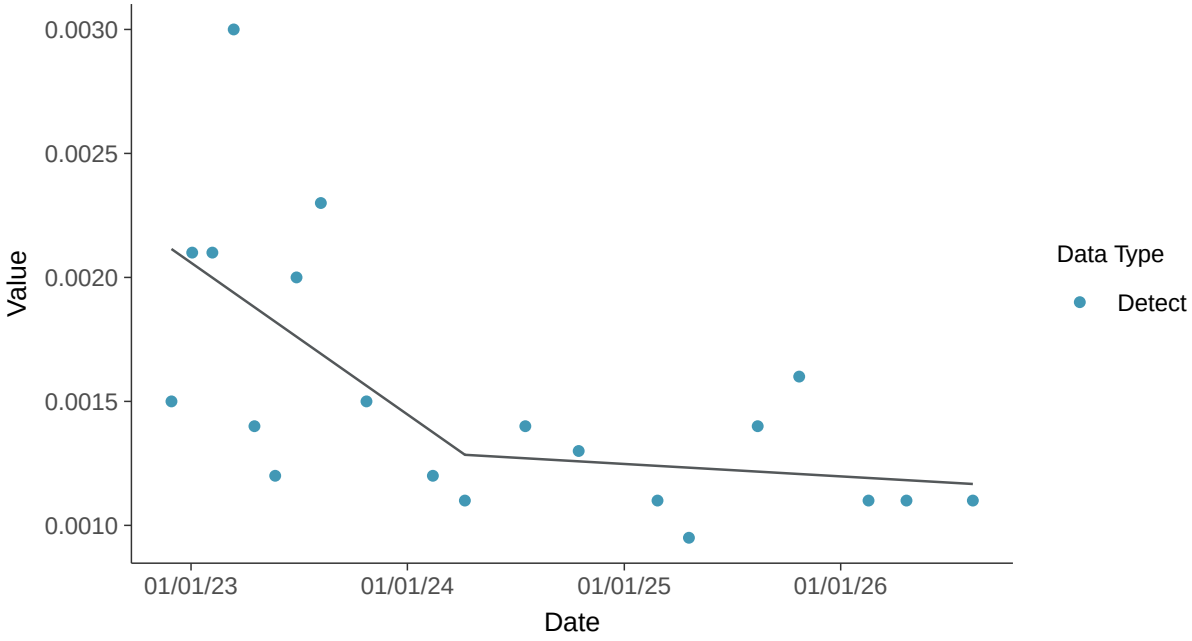
Trend Regression: Lognormal MLE

Chromium, Total, MW-06 (mg/L)



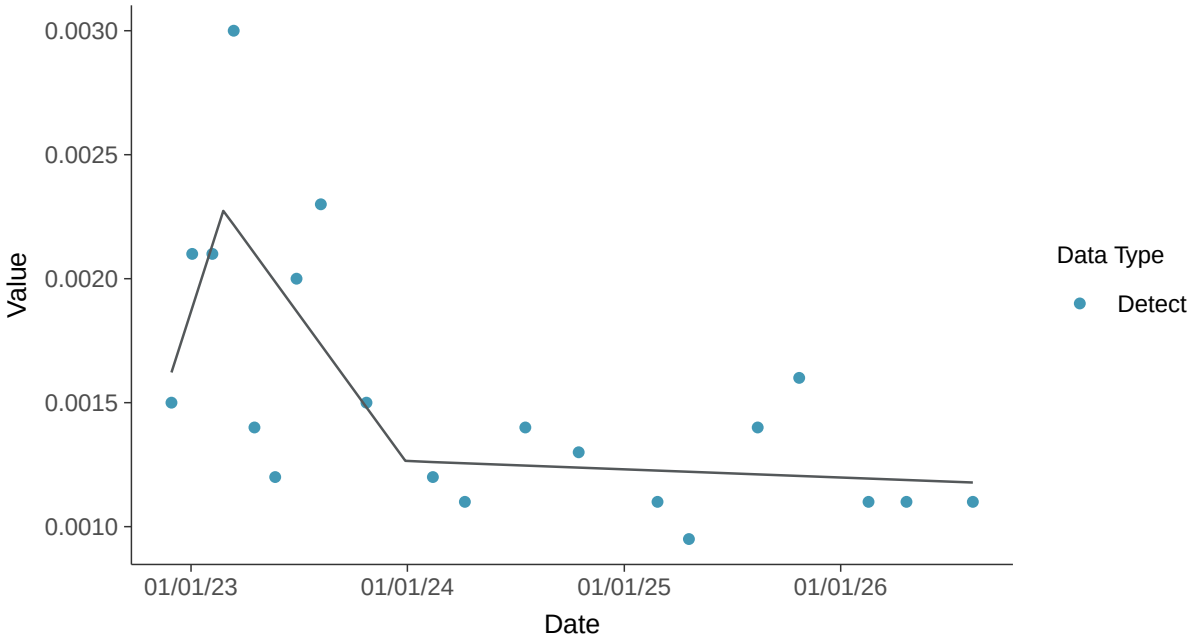
Trend Regression: Piecewise Linear-Linear

Chromium, Total, MW-06 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Chromium, Total, MW-06 (mg/L)

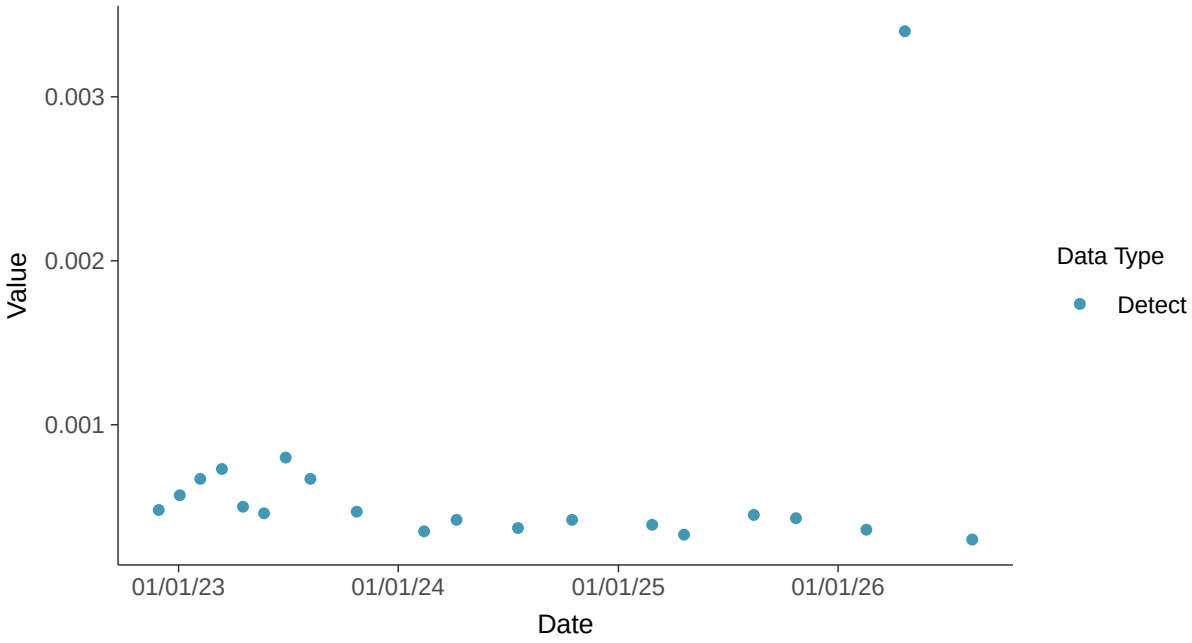


Appendix IV: Cobalt, MW-06

ID: 16_1_4_110

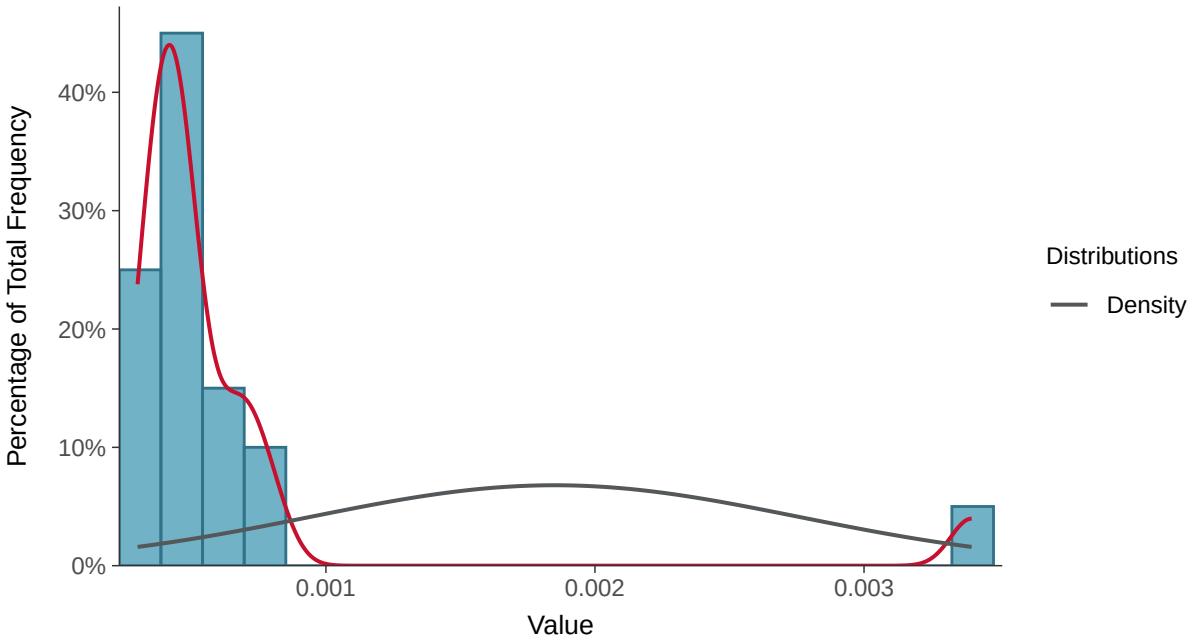
Scatter Plot

Cobalt, MW-06 (mg/L)



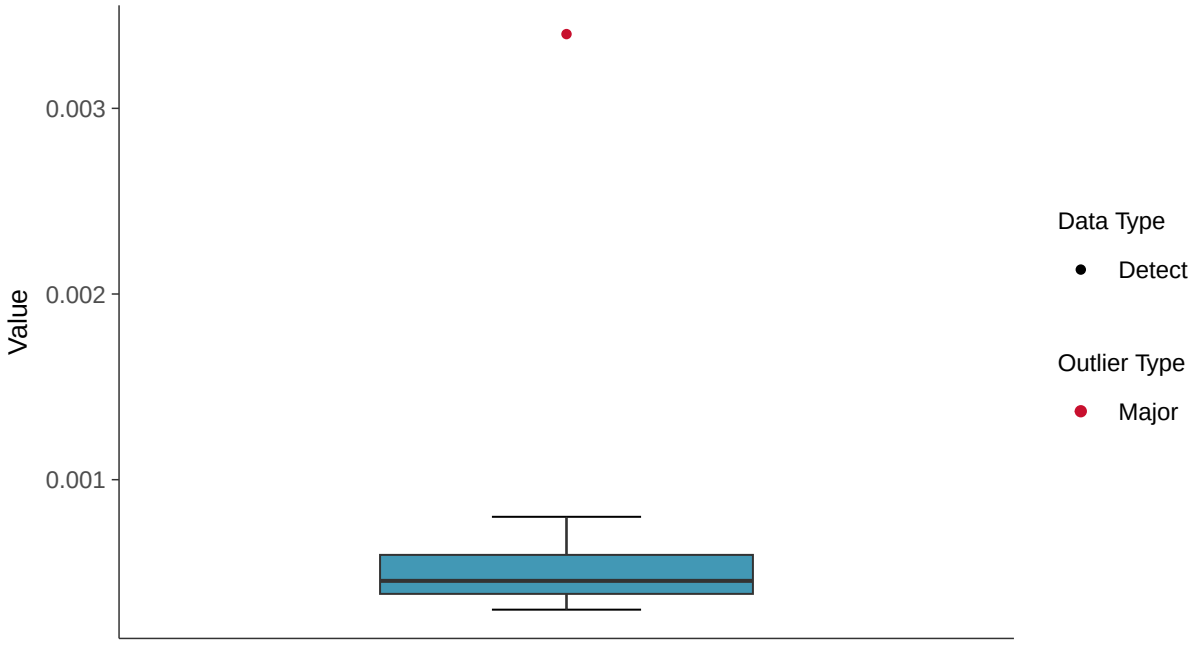
Histogram

Cobalt, MW-06 (mg/L)



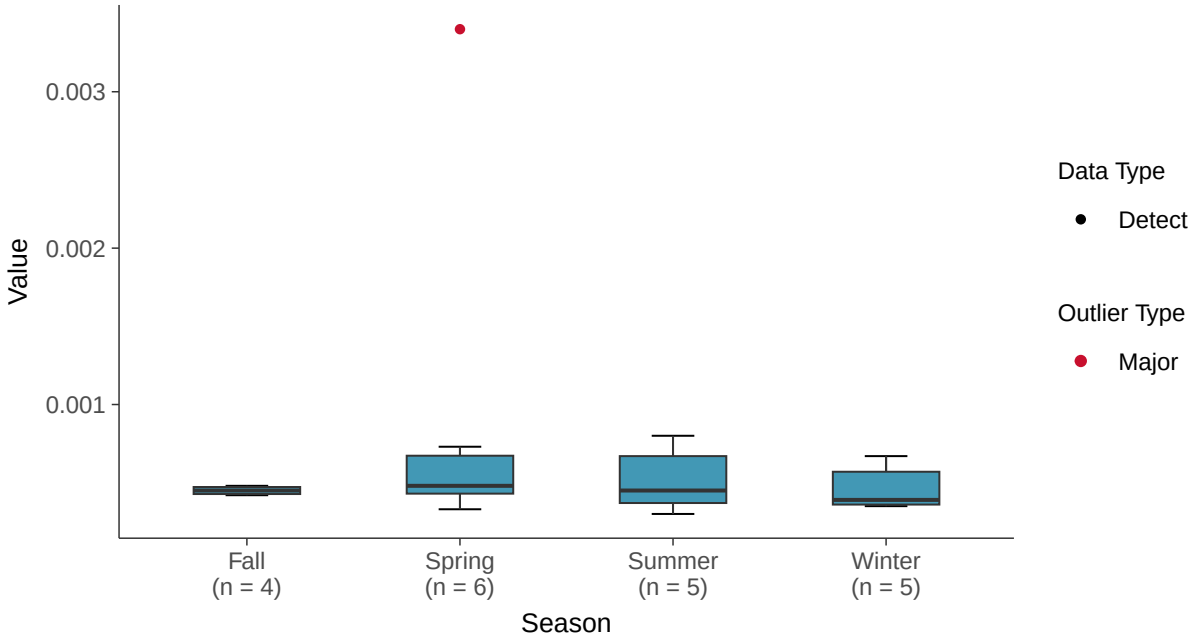
Boxplot

Cobalt, MW-06 (mg/L)



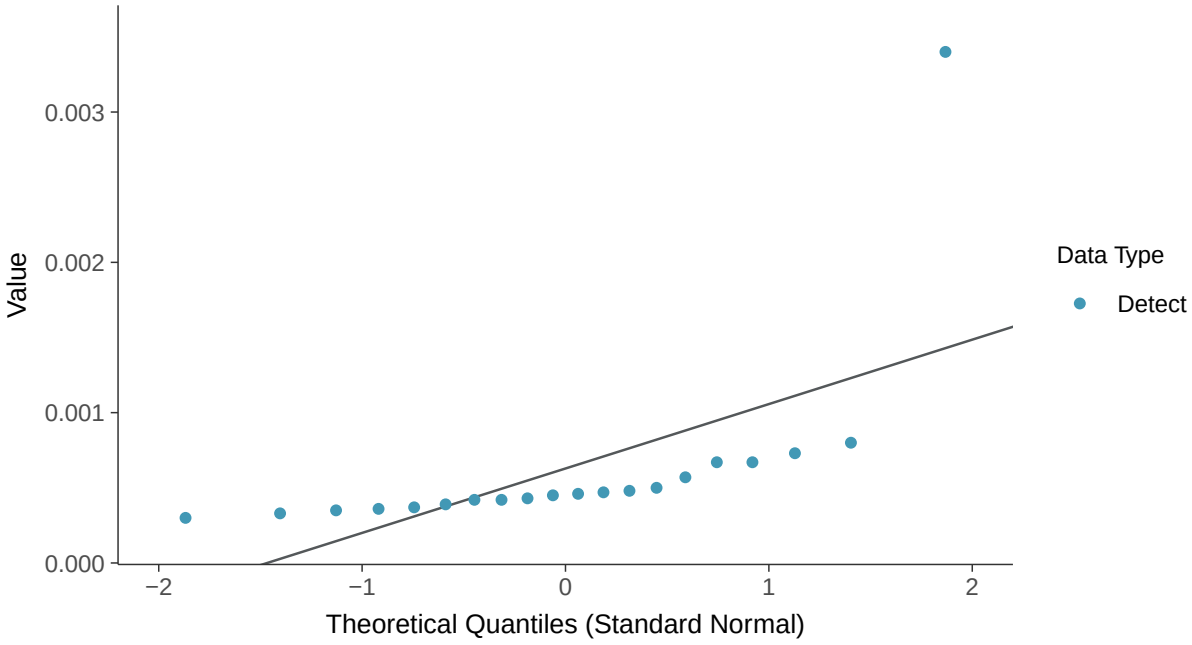
Boxplot by Season

Cobalt, MW-06 (mg/L)



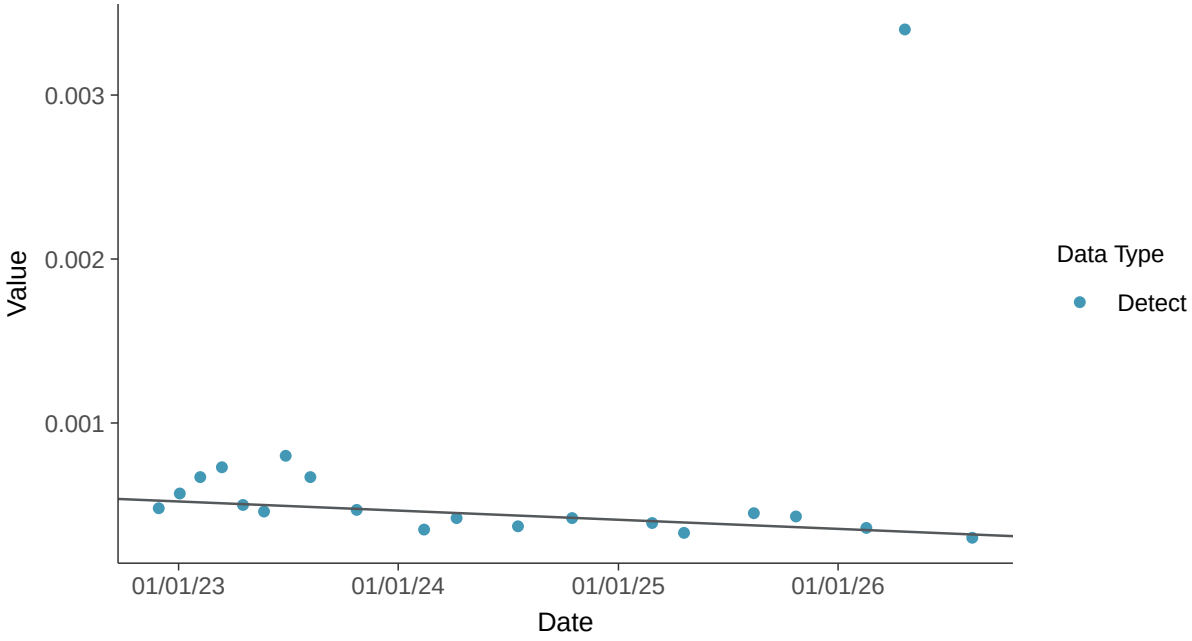
Normal Q-Q plot

Cobalt, MW-06 (mg/L)



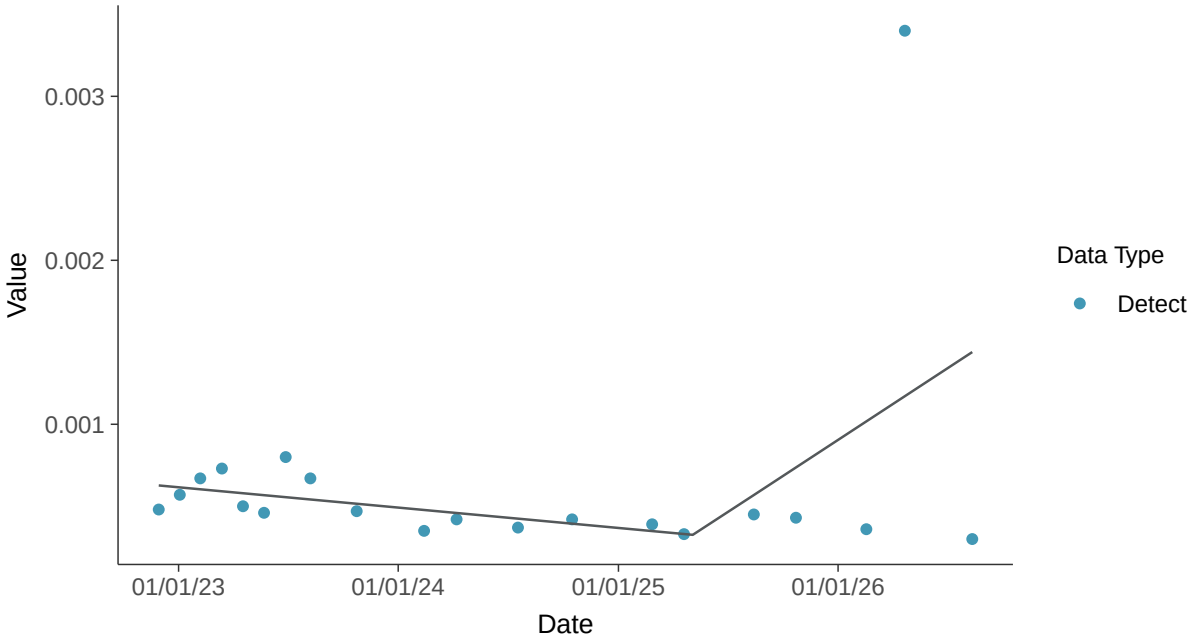
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Cobalt, MW-06 (mg/L)



Trend Regression: Piecewise Linear-Linear

Cobalt, MW-06 (mg/L)

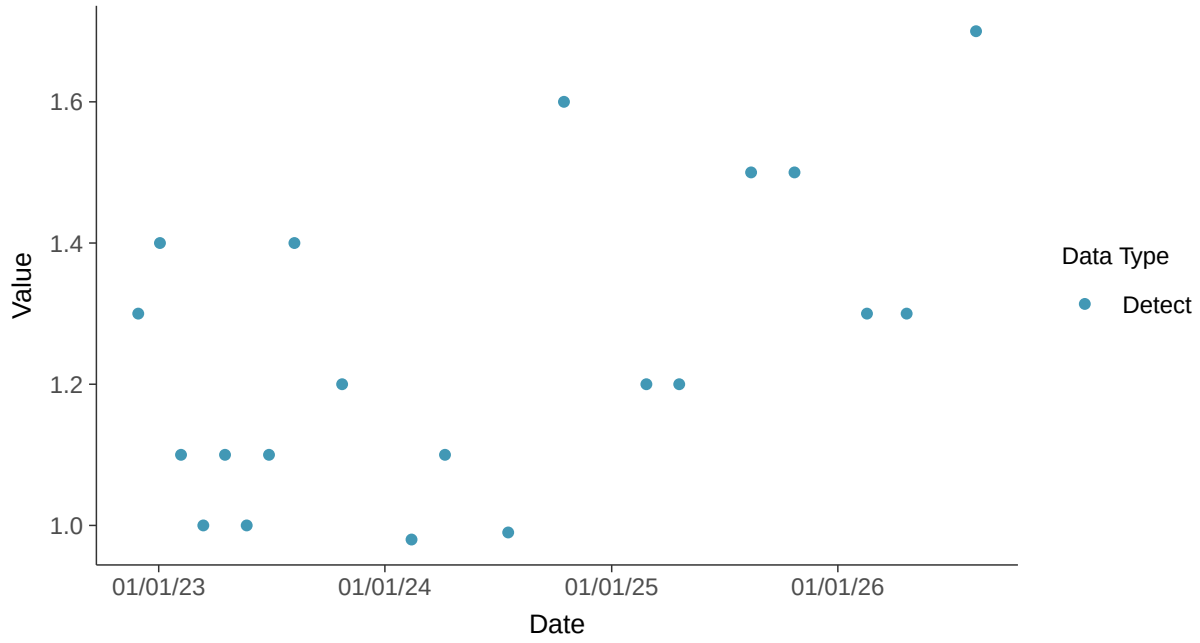


Appendix IV: Fluoride (App IV), MW-06

ID: 16_1_4_113

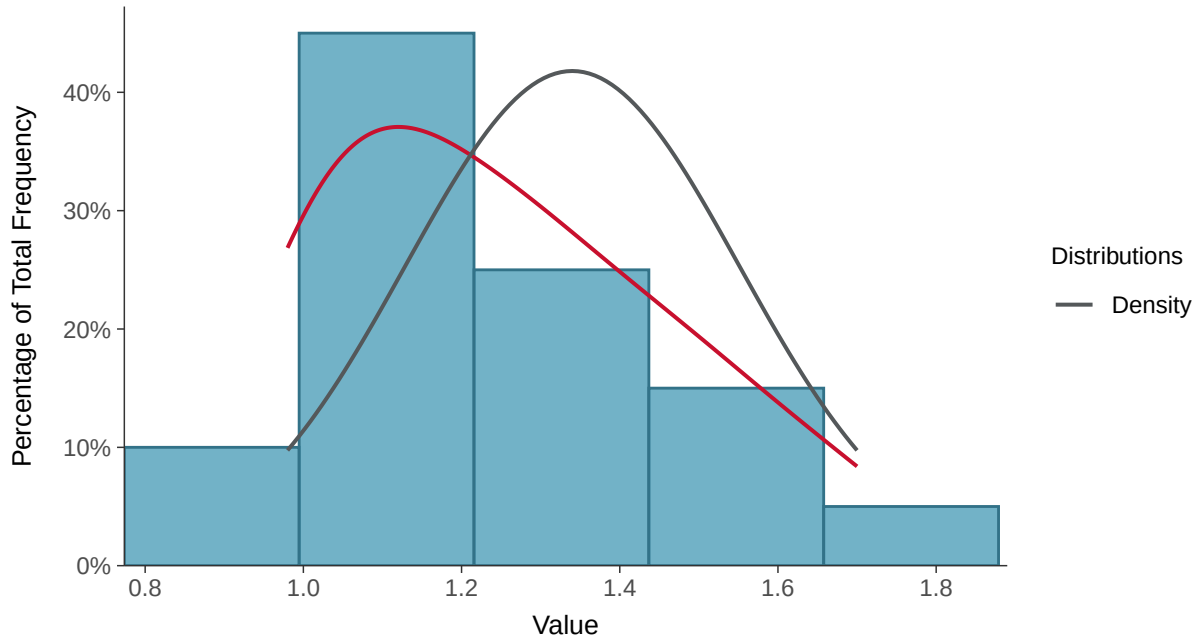
Scatter Plot

Fluoride (App IV), MW-06 (mg/L)



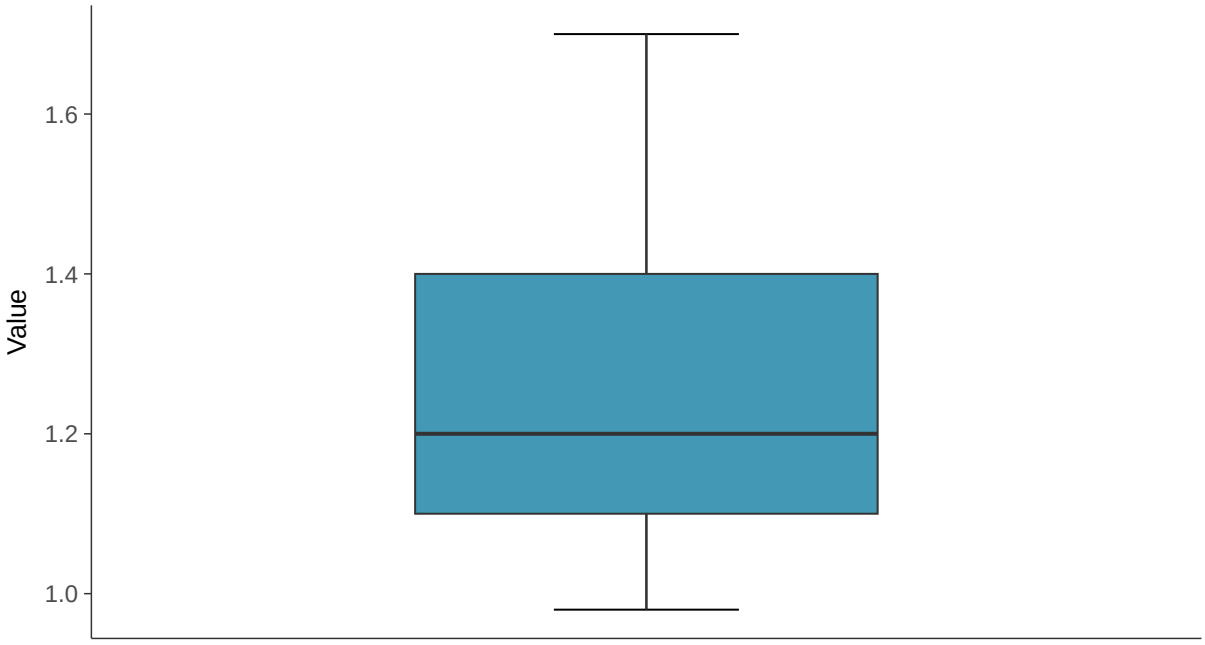
Histogram

Fluoride (App IV), MW-06 (mg/L)



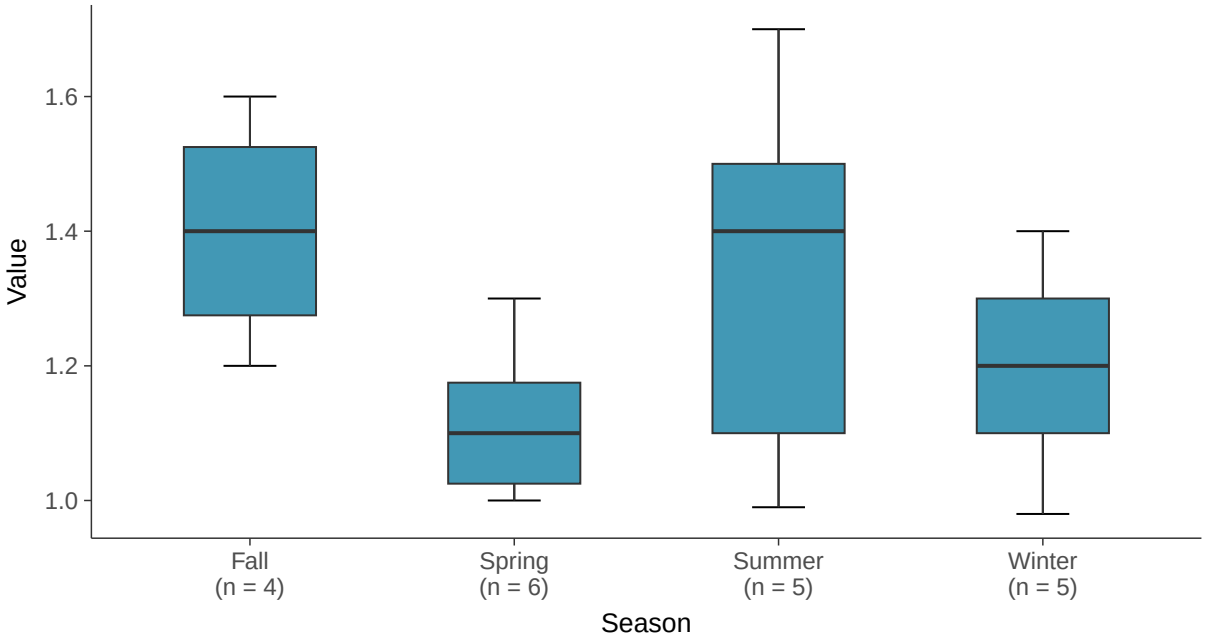
Boxplot

Fluoride (App IV), MW-06 (mg/L)



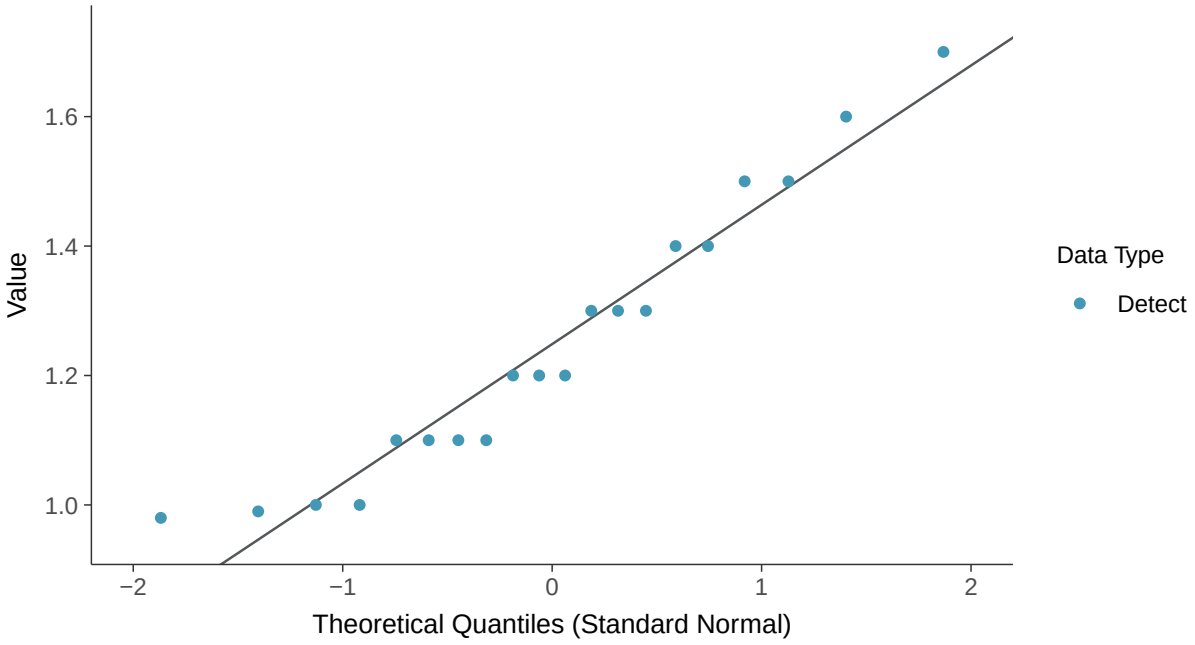
Boxplot by Season

Fluoride (App IV), MW-06 (mg/L)



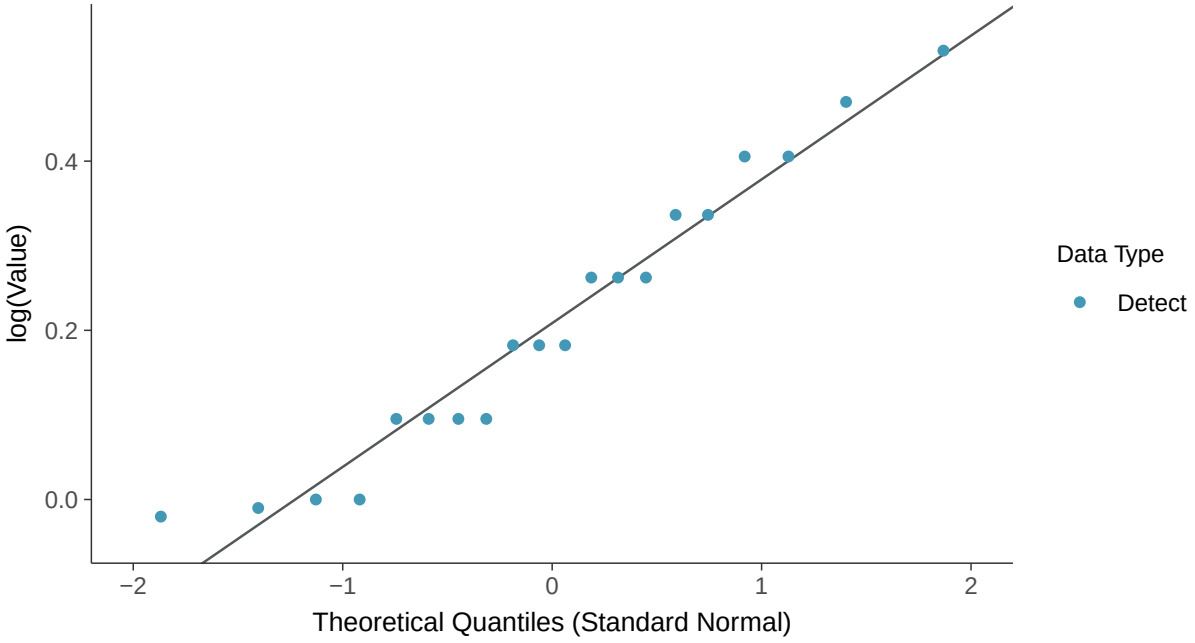
Normal Q-Q plot

Fluoride (App IV), MW-06 (mg/L)



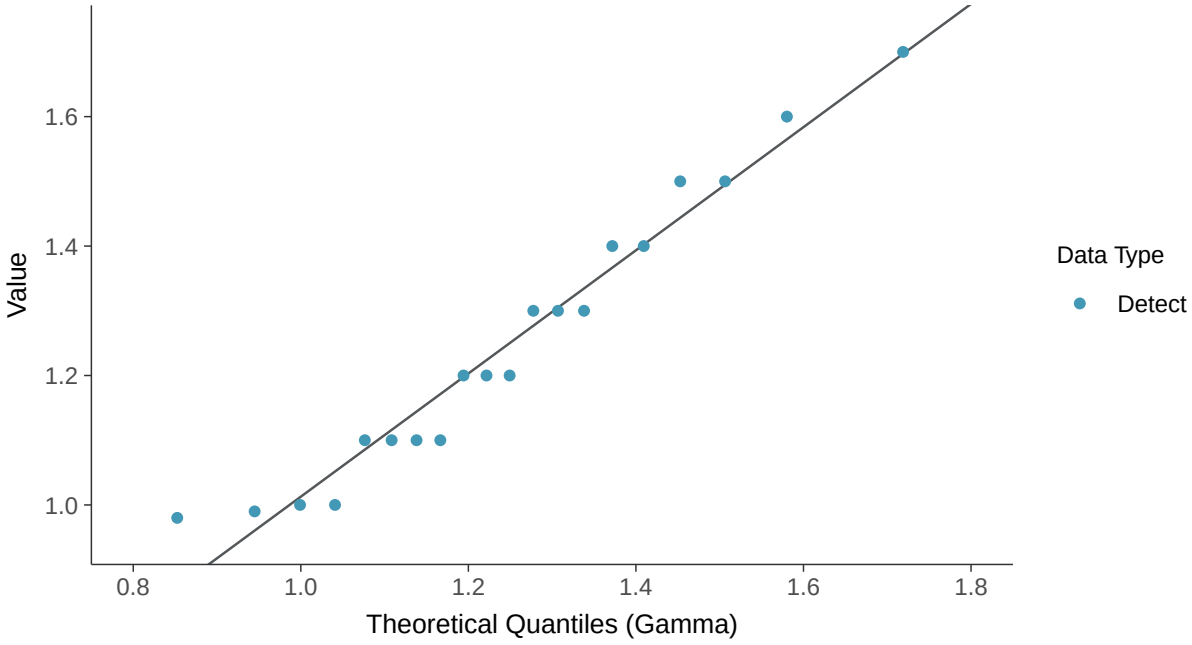
Lognormal Q-Q plot

Fluoride (App IV), MW-06 (mg/L)



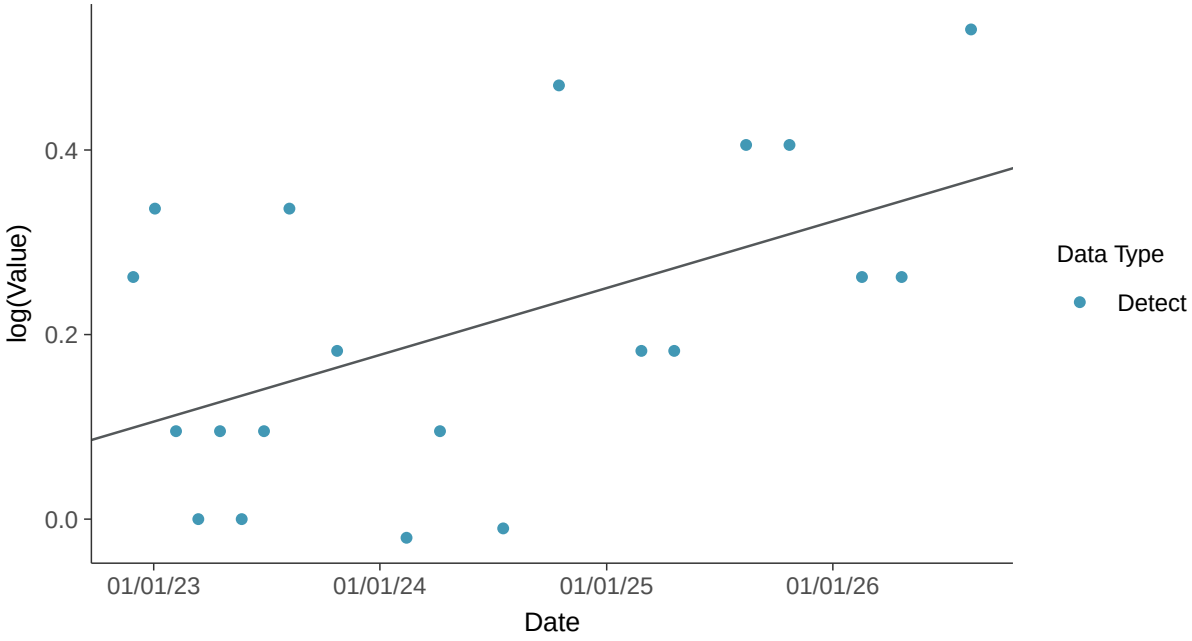
Gamma Q-Q plot

Fluoride (App IV), MW-06 (mg/L)



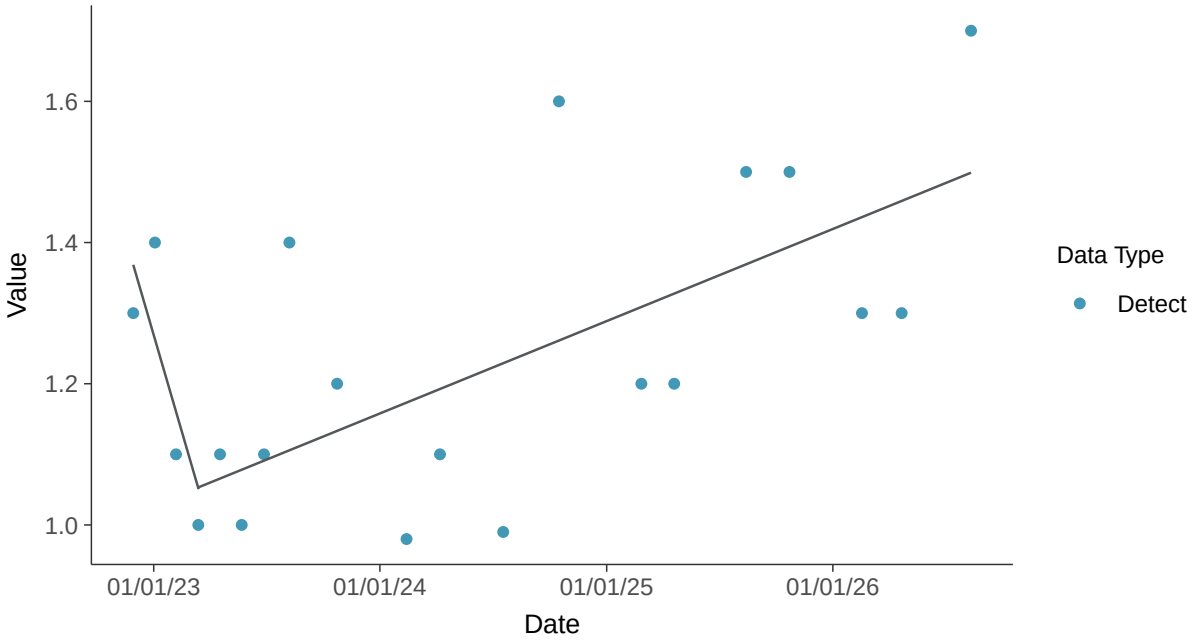
Trend Regression: Lognormal MLE

Fluoride (App IV), MW-06 (mg/L)



Trend Regression: Piecewise Linear-Linear

Fluoride (App IV), MW-06 (mg/L)

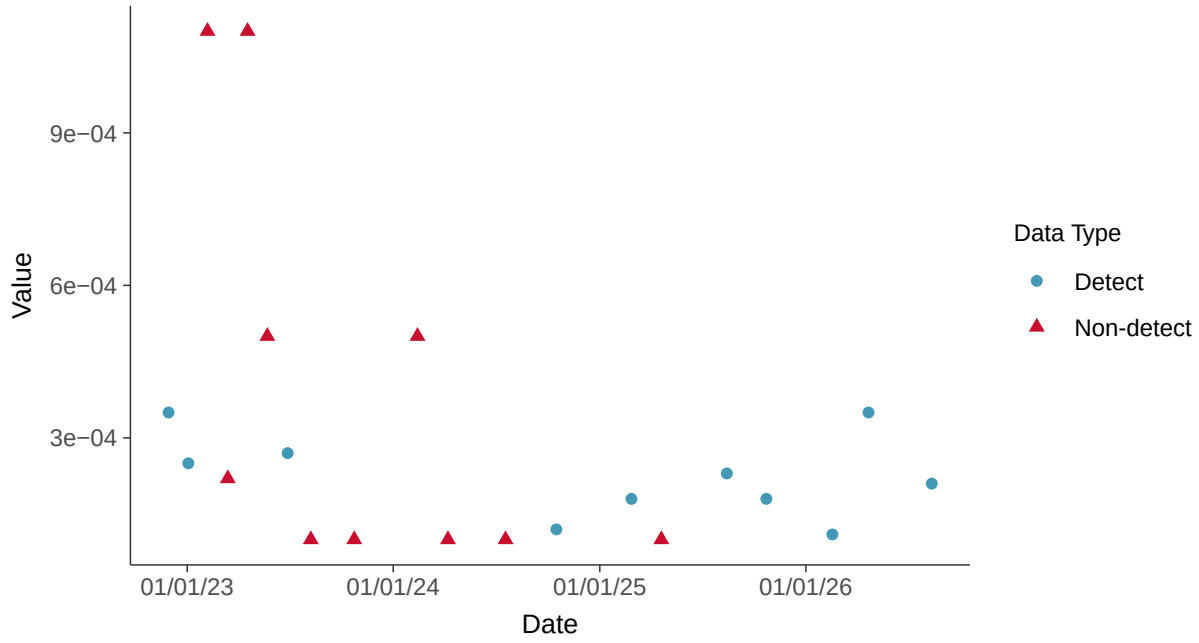


Appendix IV: Lead, MW-06

ID: 16_1_4_115

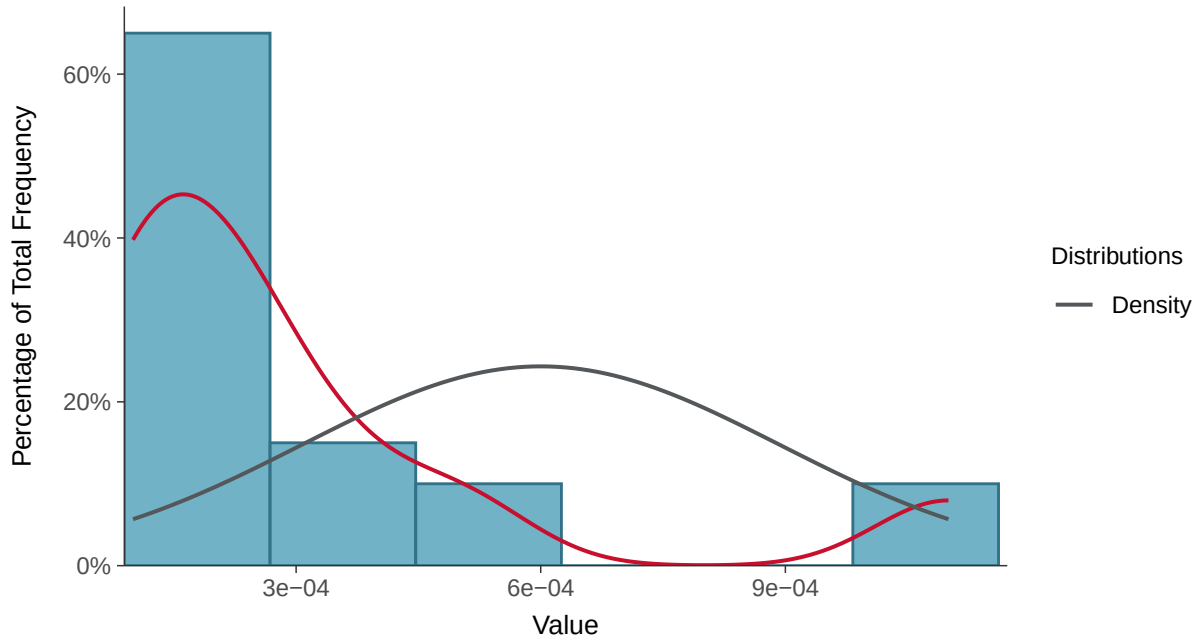
Scatter Plot

Lead, MW-06 (mg/L)



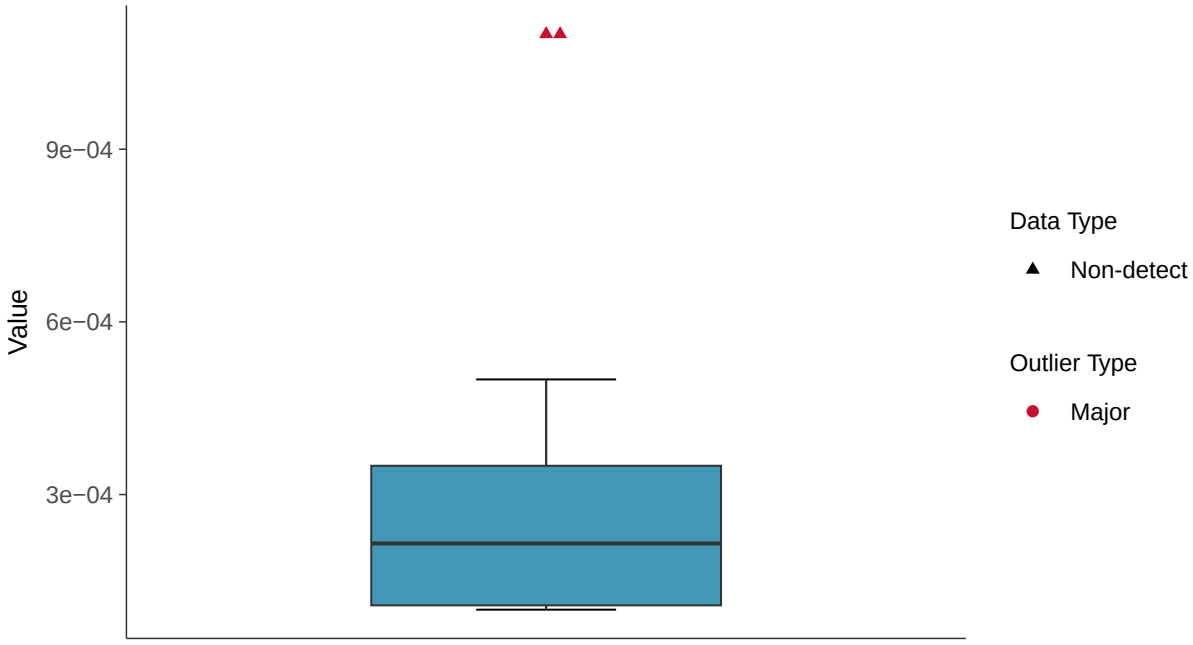
Histogram

Lead, MW-06 (mg/L)



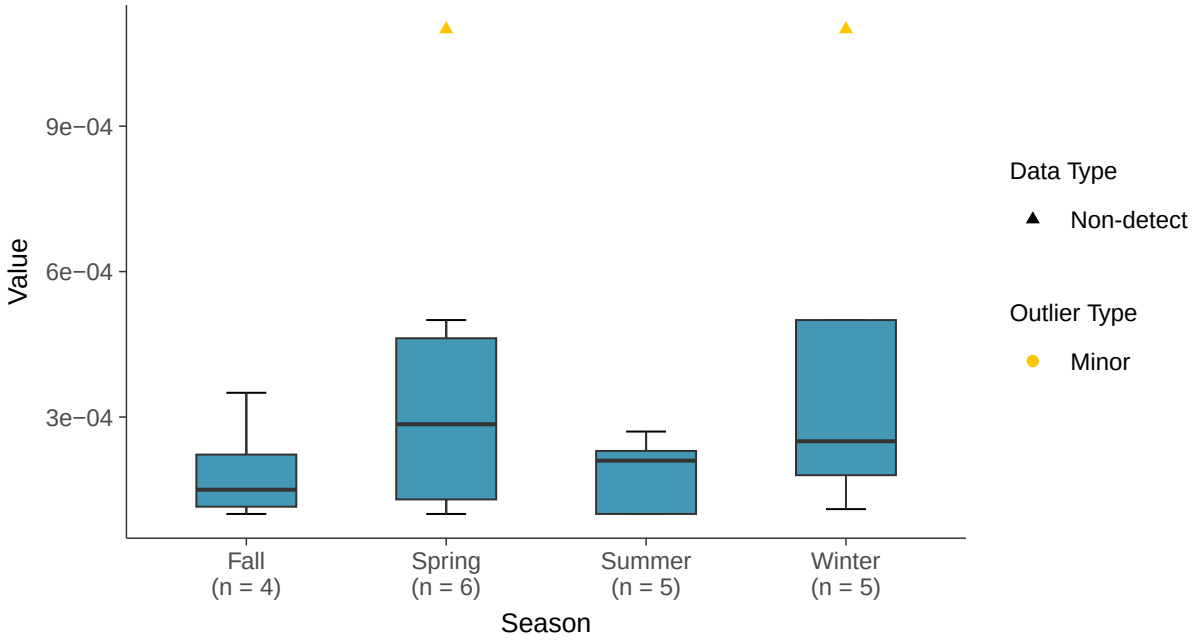
Boxplot

Lead, MW-06 (mg/L)



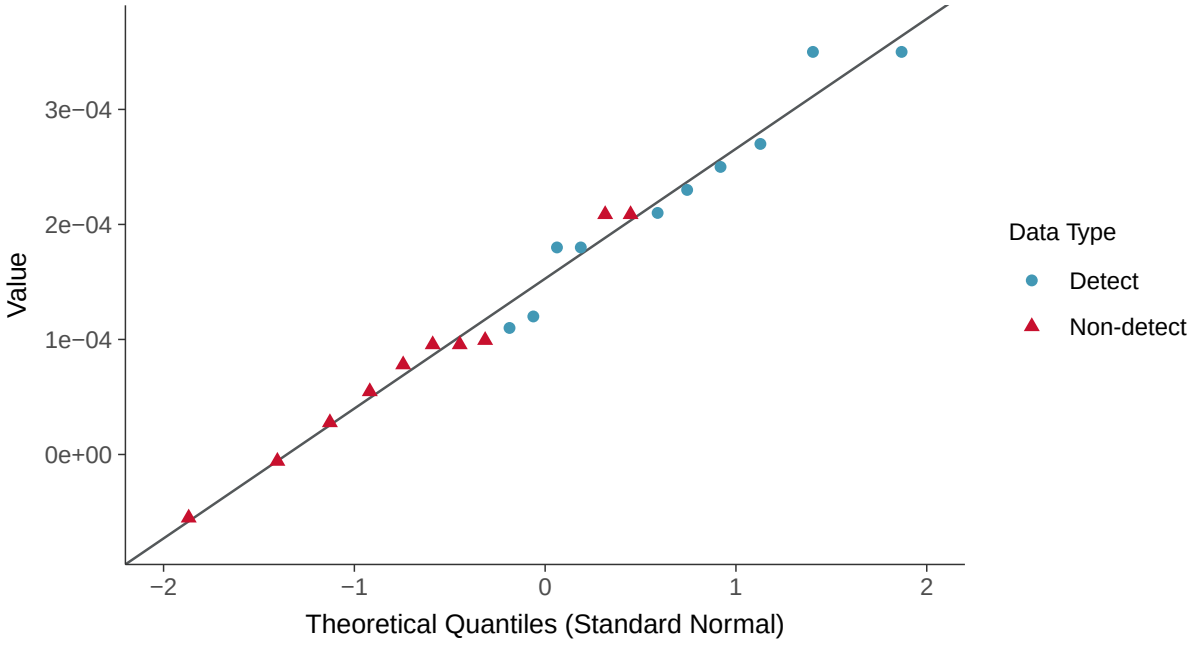
Boxplot by Season

Lead, MW-06 (mg/L)



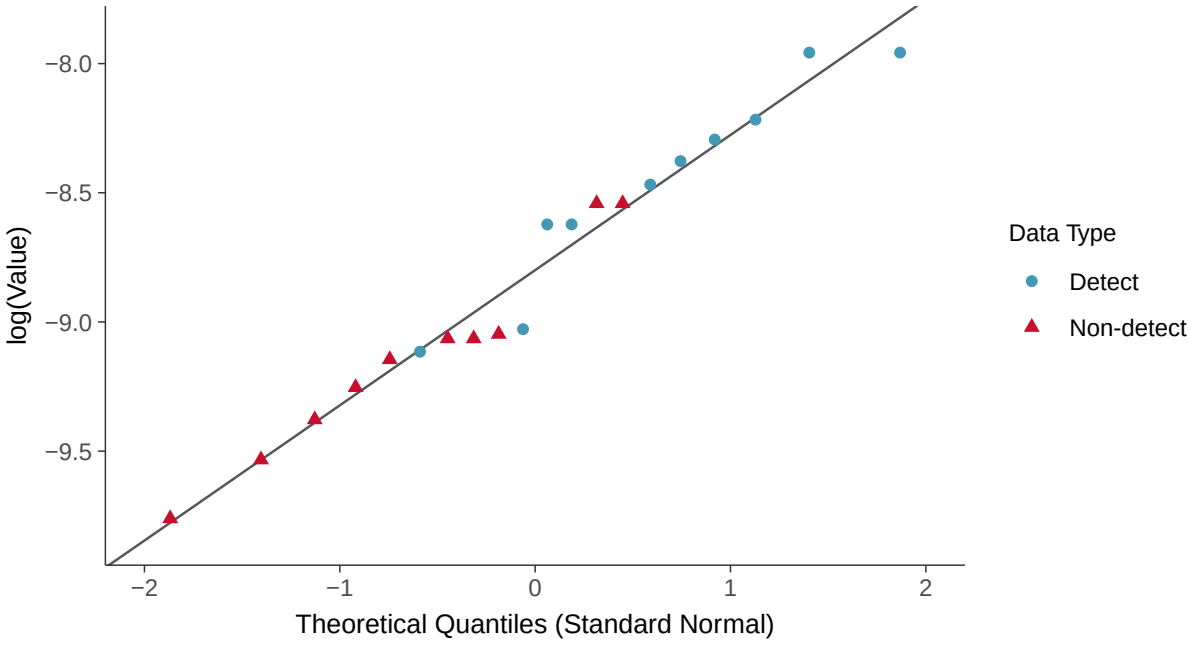
Normal Q-Q plot using ROS Imputed Estimates

Lead, MW-06 (mg/L)



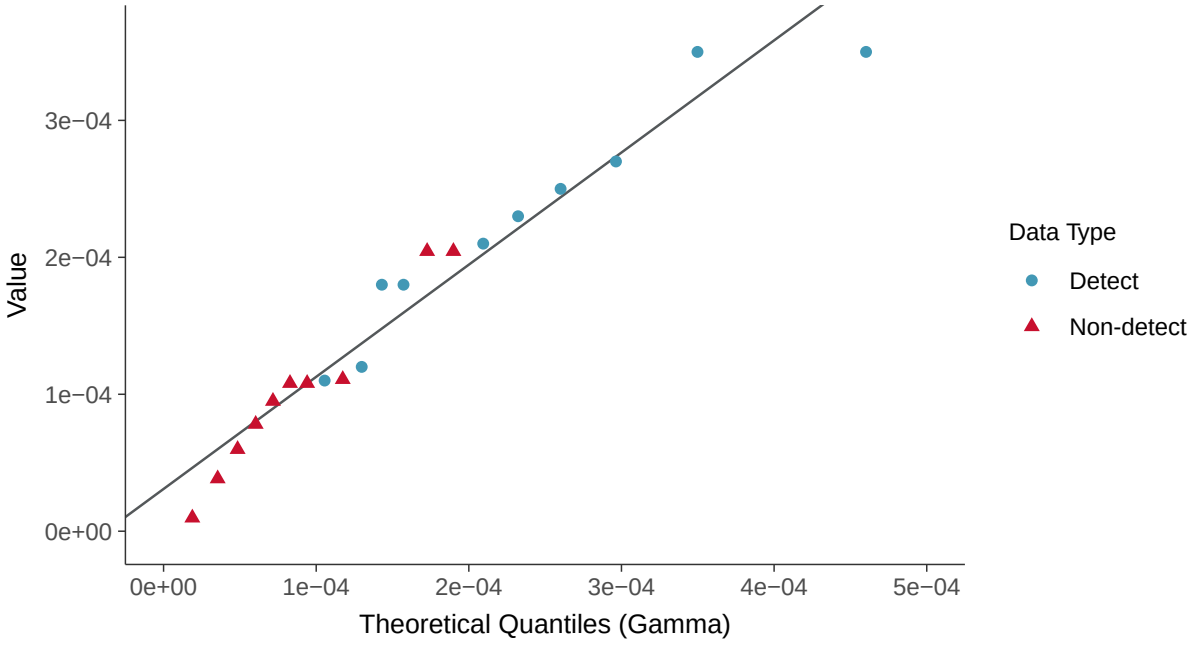
Lognormal Q-Q plot using ROS Imputed Estimates

Lead, MW-06 (mg/L)



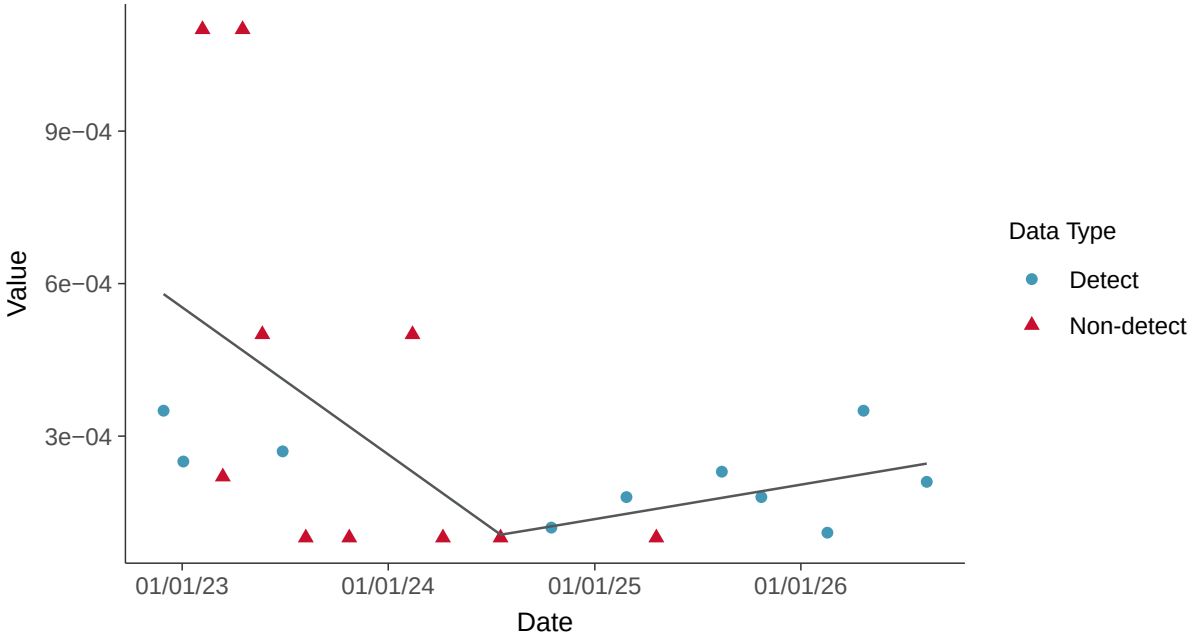
Gamma Q-Q plot using ROS Imputed Estimates

Lead, MW-06 (mg/L)



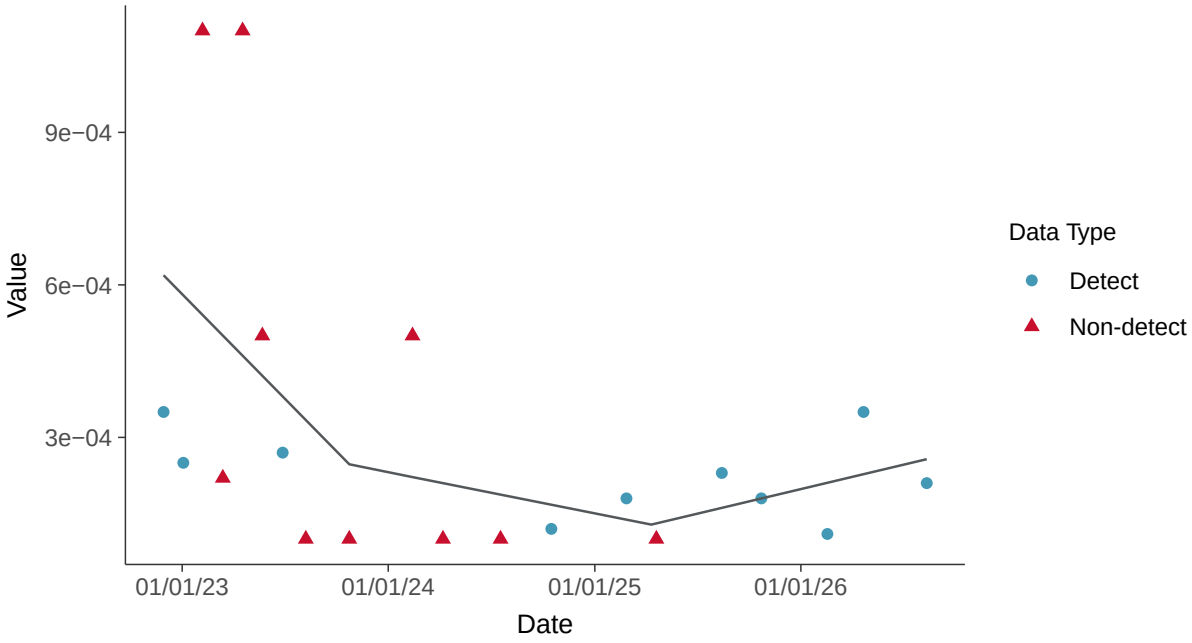
Trend Regression: Piecewise Linear-Linear

Lead, MW-06 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Lead, MW-06 (mg/L)

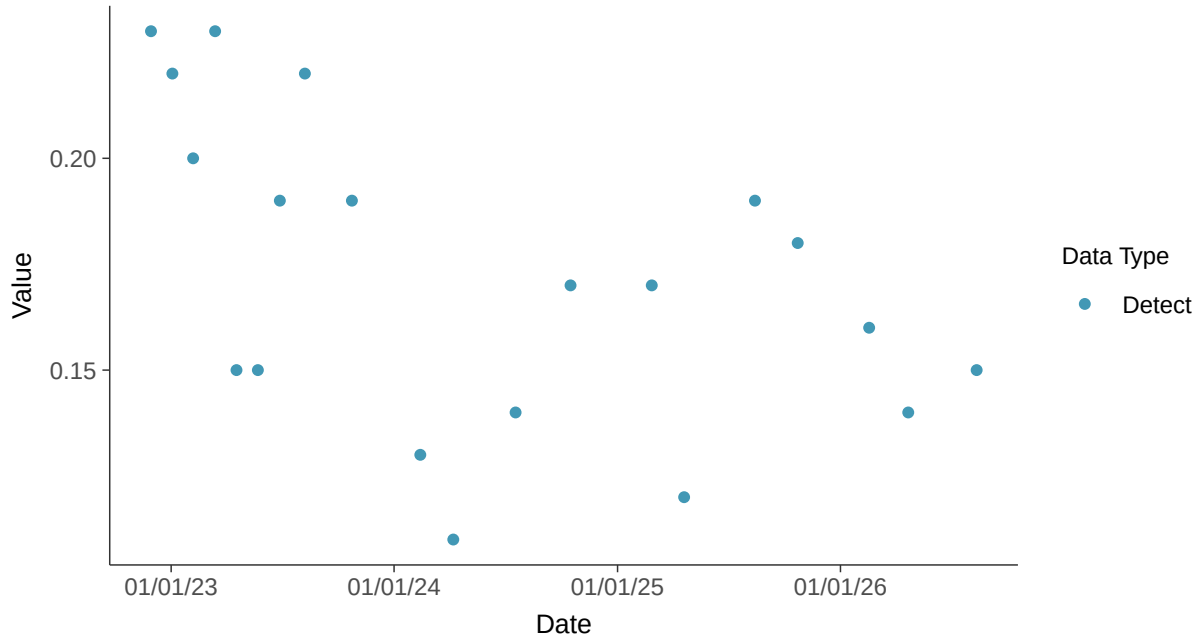


Appendix IV: Lithium, MW-06

ID: 16_1_4_116

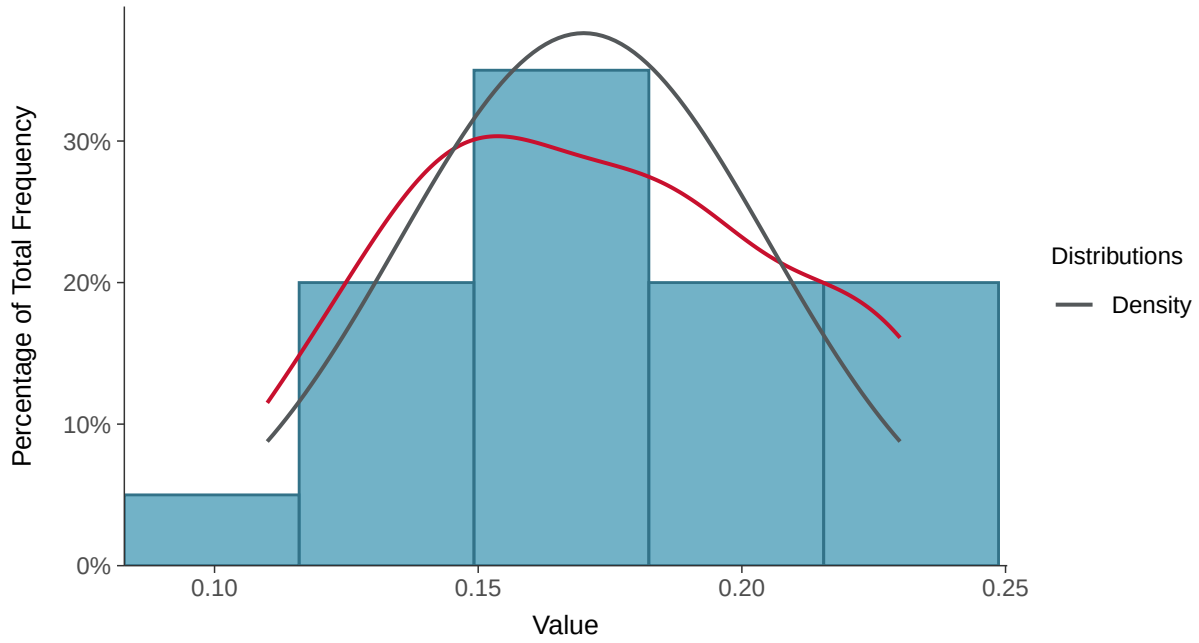
Scatter Plot

Lithium, MW-06 (mg/L)



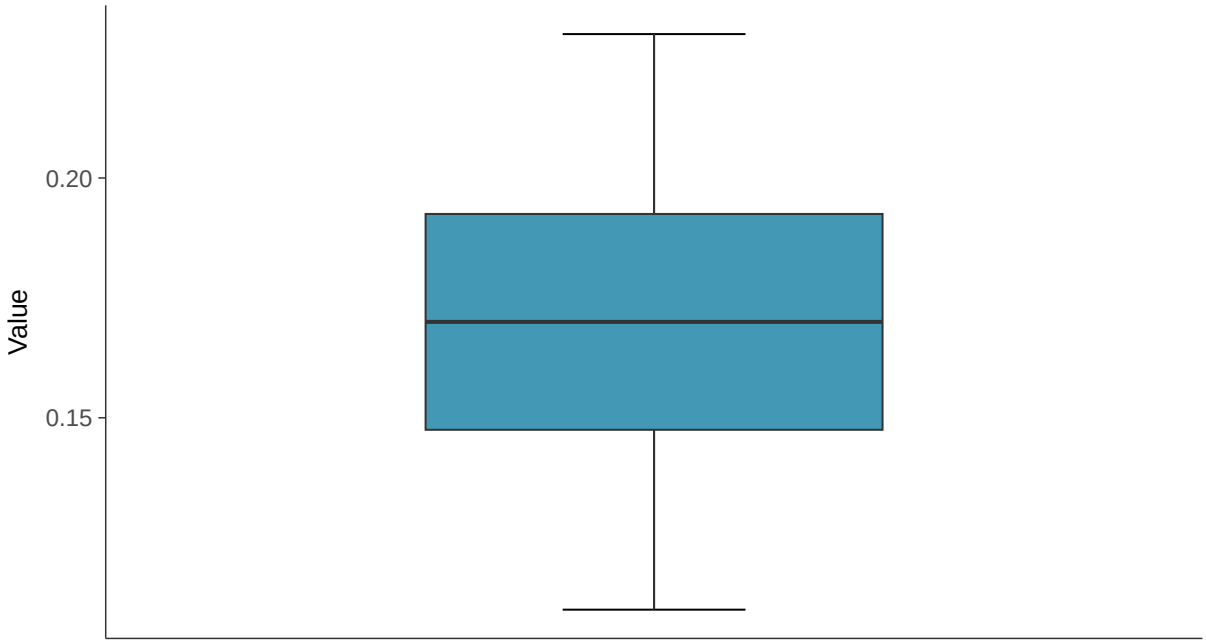
Histogram

Lithium, MW-06 (mg/L)



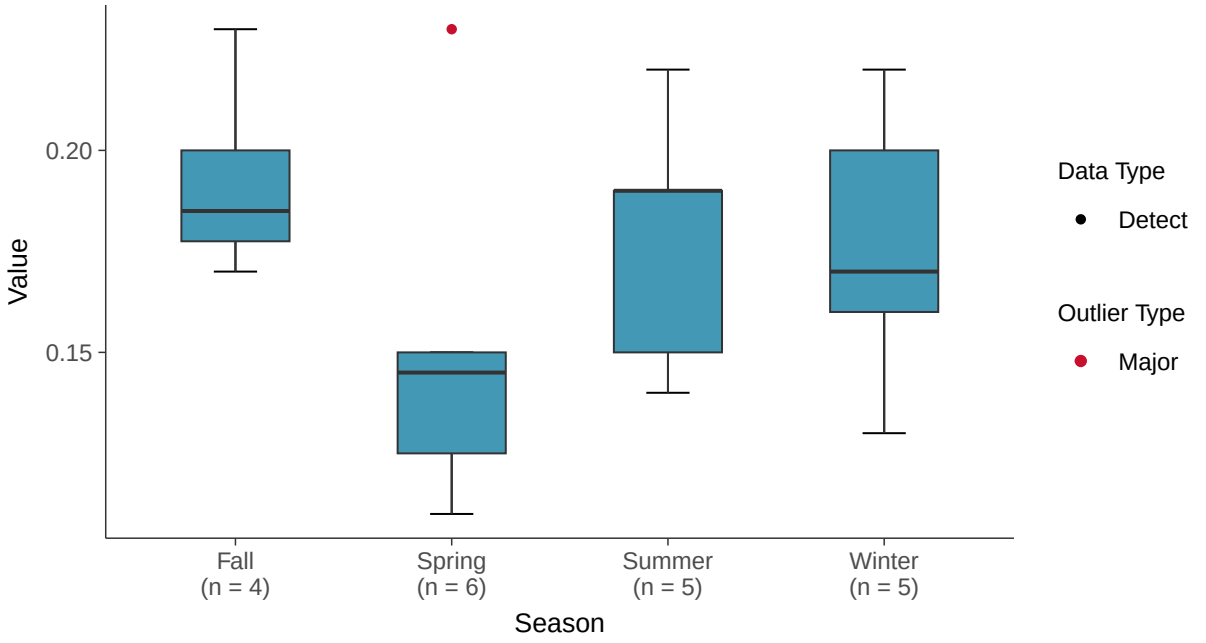
Boxplot

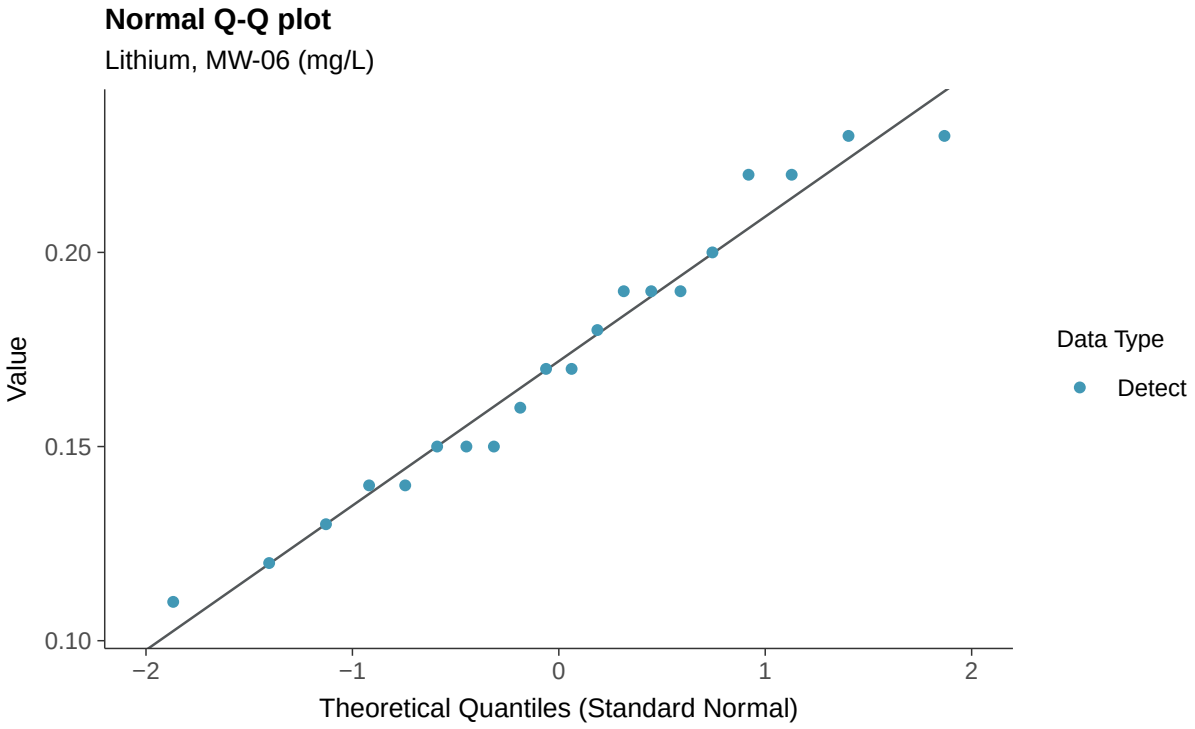
Lithium, MW-06 (mg/L)

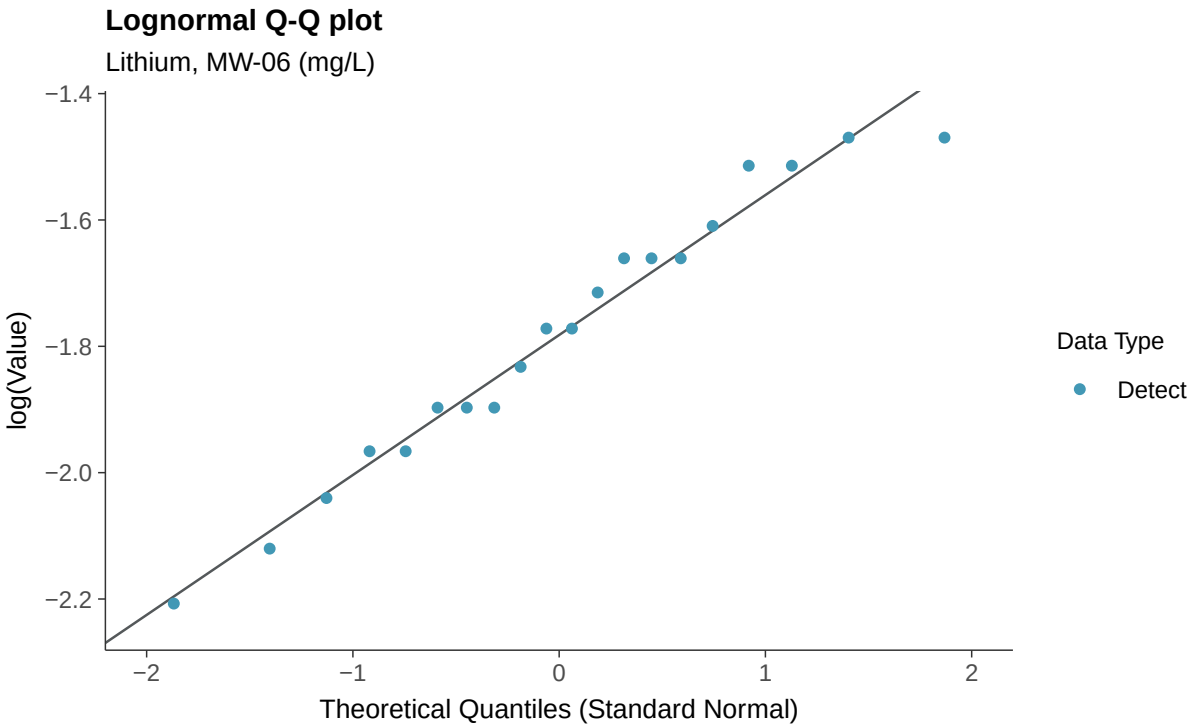


Boxplot by Season

Lithium, MW-06 (mg/L)

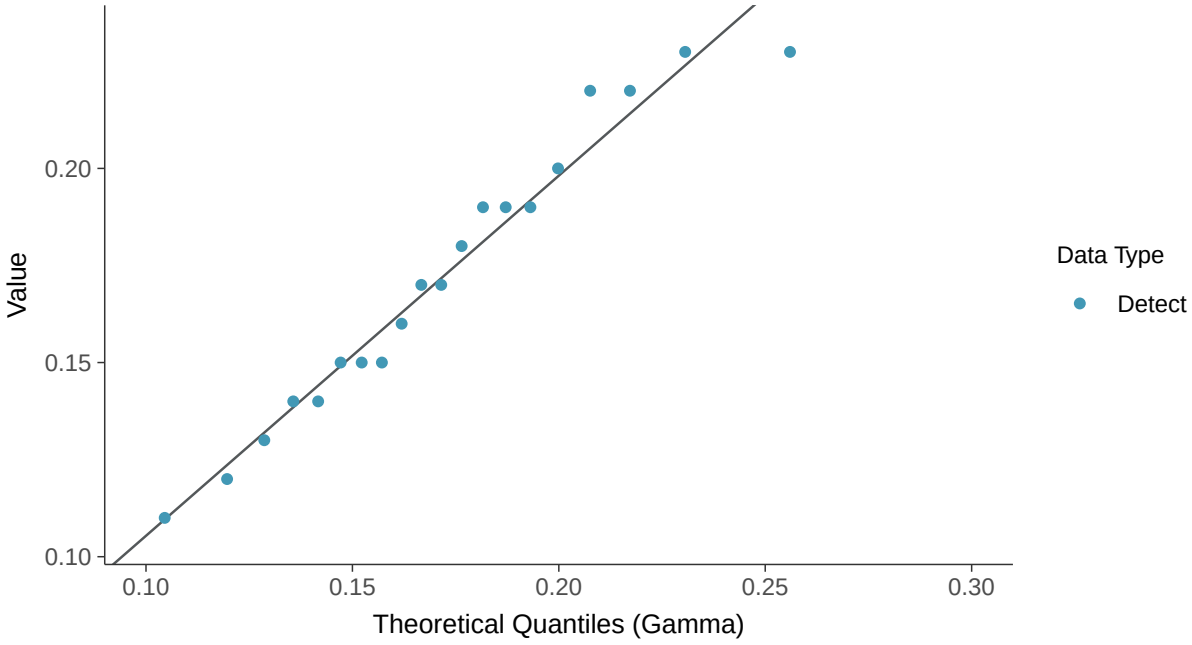



Normal Q-Q plot
Lithium, MW-06 (mg/L)
Value
0.20
0.15
0.10
−2
−1
0
1
2
Theoretical Quantiles (Standard Normal)
Data Type
Detect


Lognormal Q-Q plot
Lithium, MW-06 (mg/L)
log(Value)
−1.4
−1.6
−1.8
−2.0
−2.2
−2
−1
0
1
2
Theoretical Quantiles (Standard Normal)
Data Type
Detect

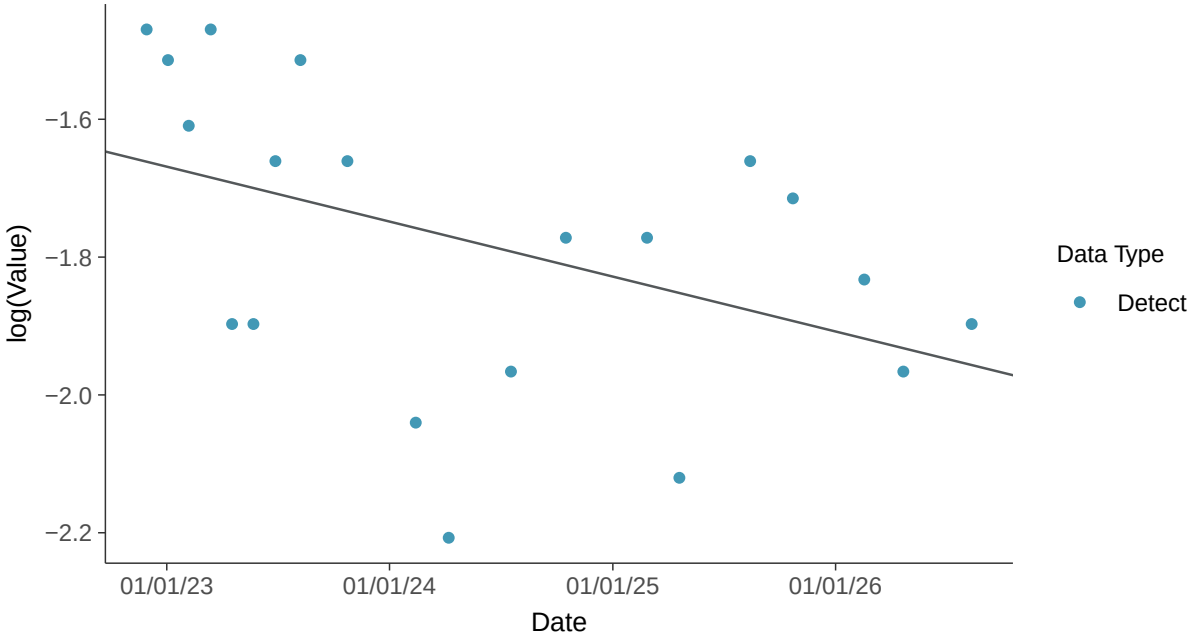
Gamma Q-Q plot

Lithium, MW-06 (mg/L)



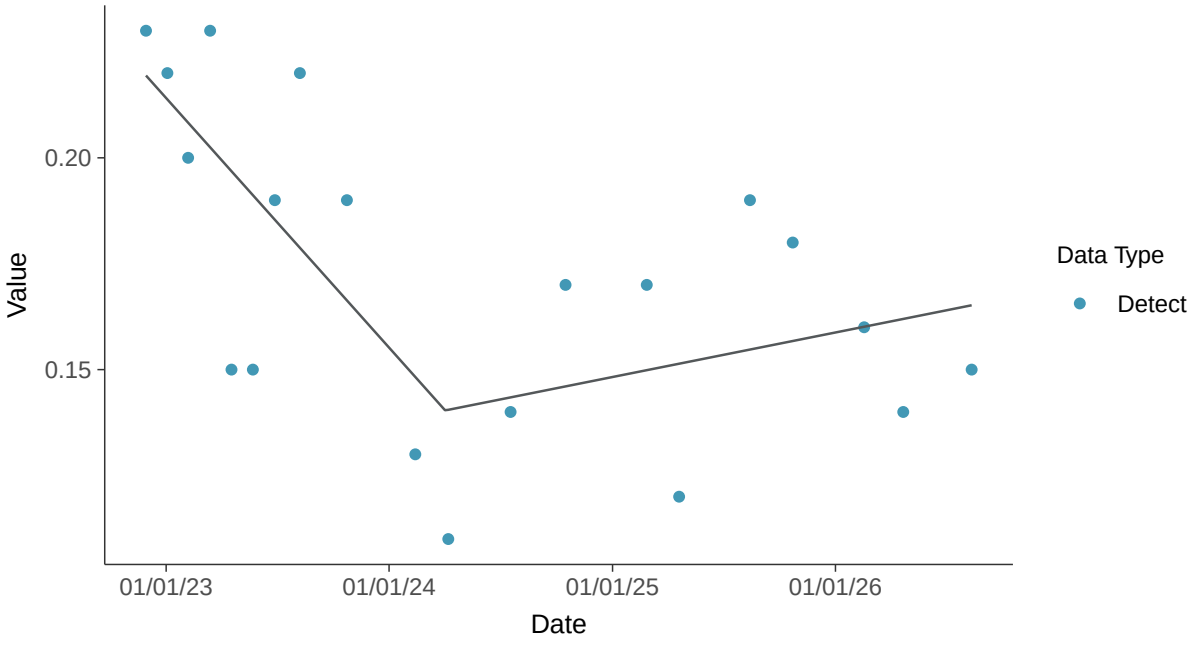
Trend Regression: Lognormal MLE

Lithium, MW-06 (mg/L)



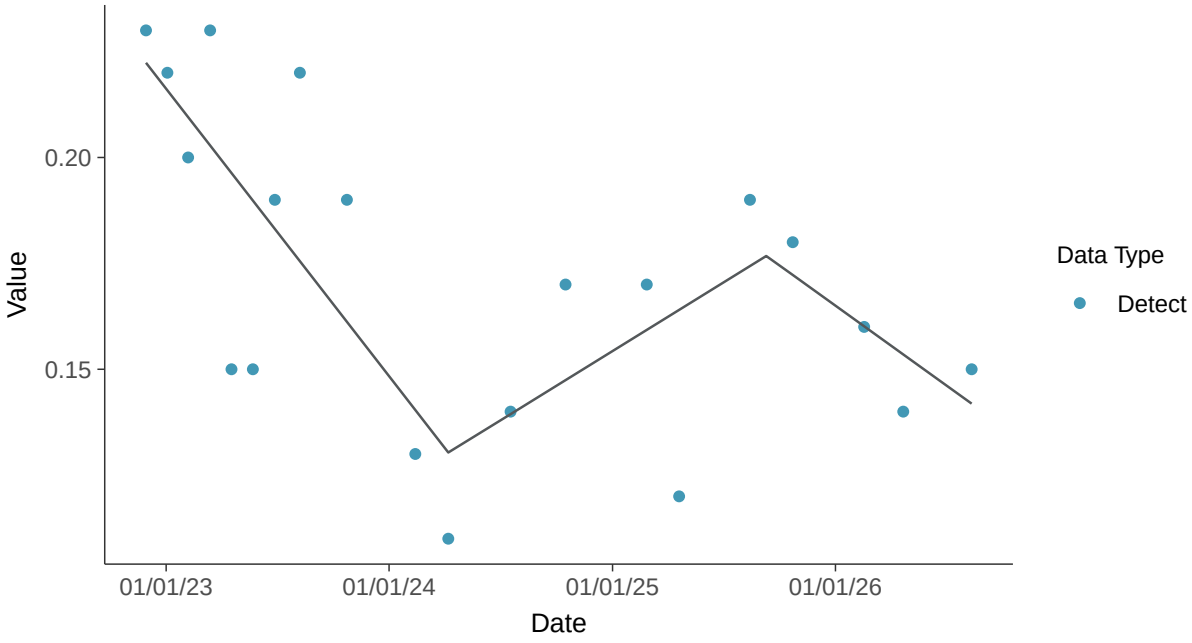
Trend Regression: Piecewise Linear-Linear

Lithium, MW-06 (mg/L)



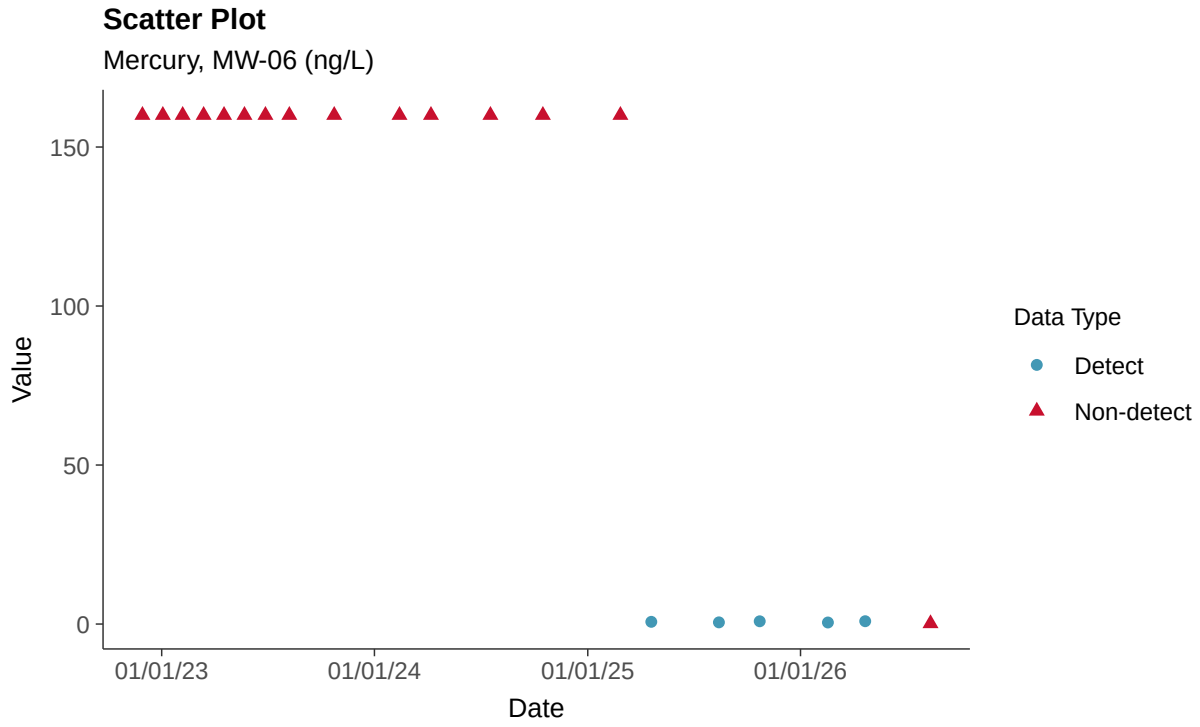
Trend Regression: Piecewise Linear-Linear-Linear

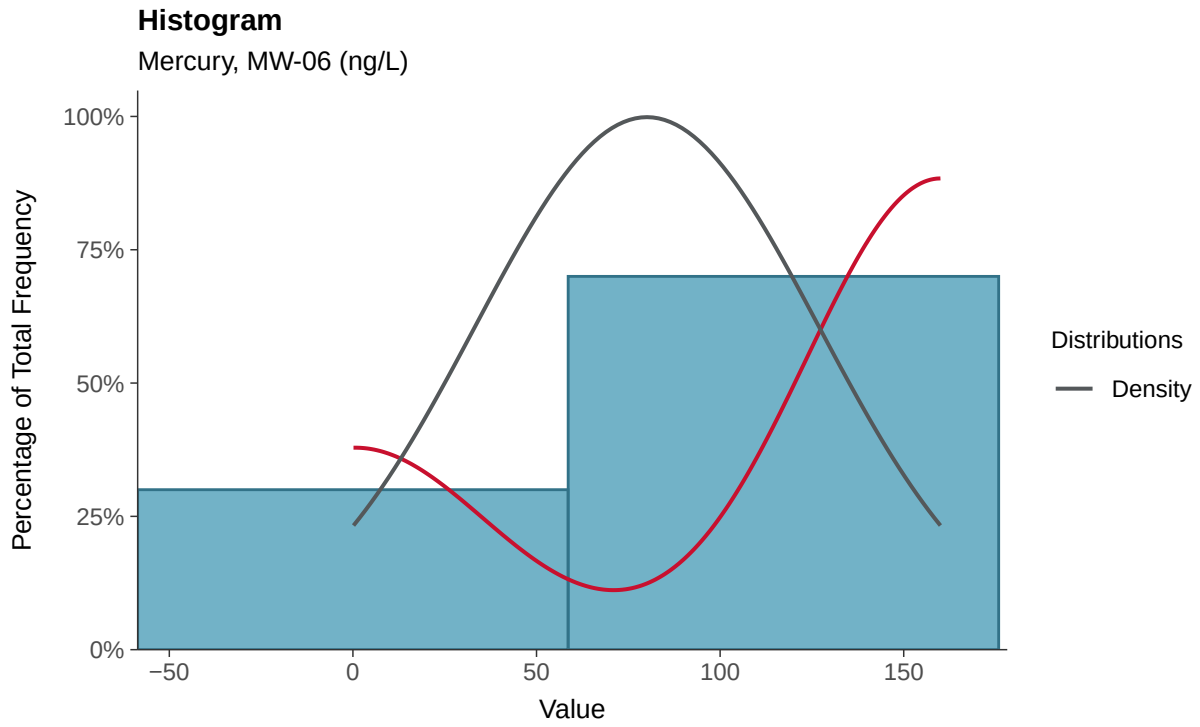
Lithium, MW-06 (mg/L)



Appendix IV: Mercury, MW-06

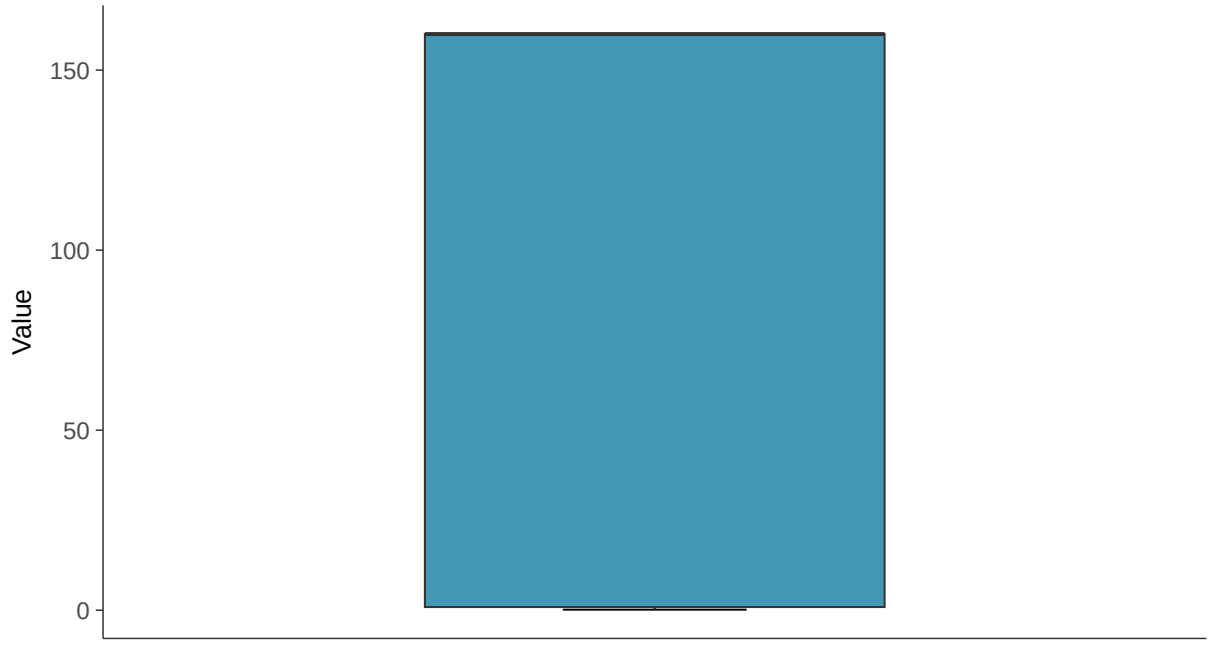
ID: 16_1_4_117





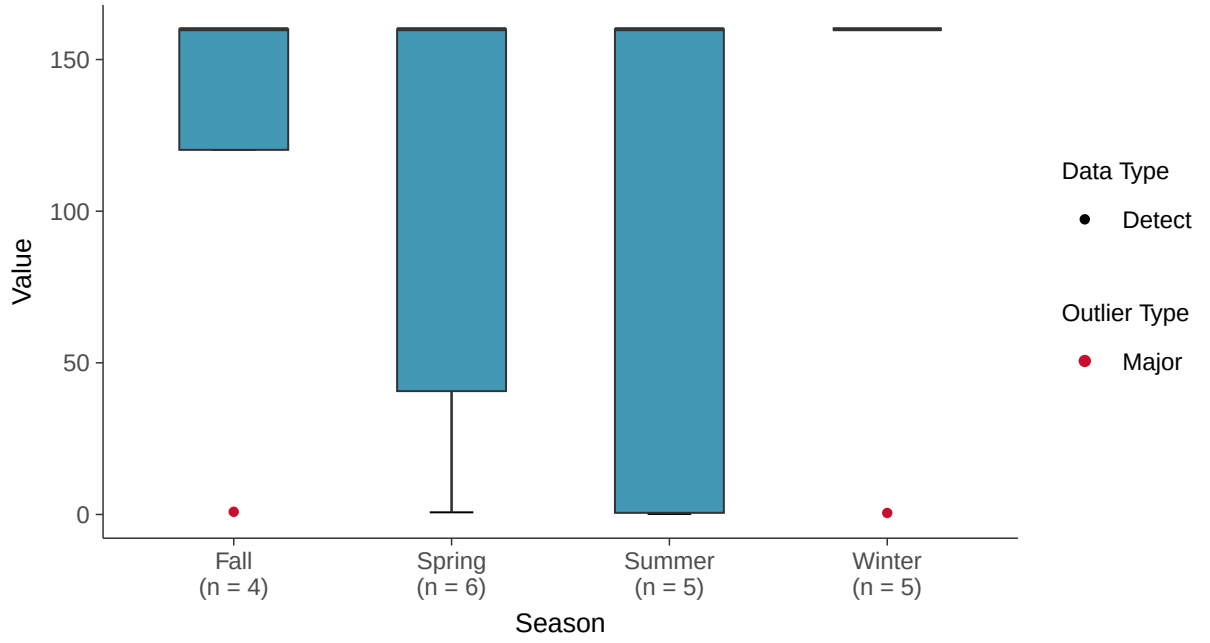
Boxplot

Mercury, MW-06 (ng/L)



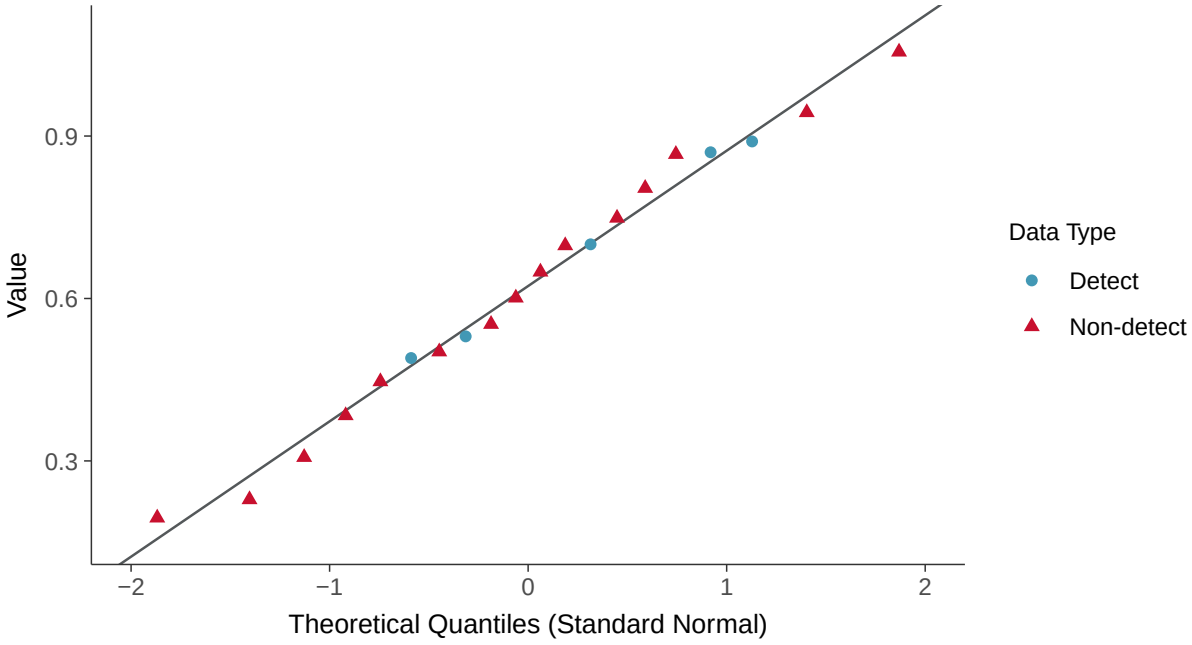
Boxplot by Season

Mercury, MW-06 (ng/L)



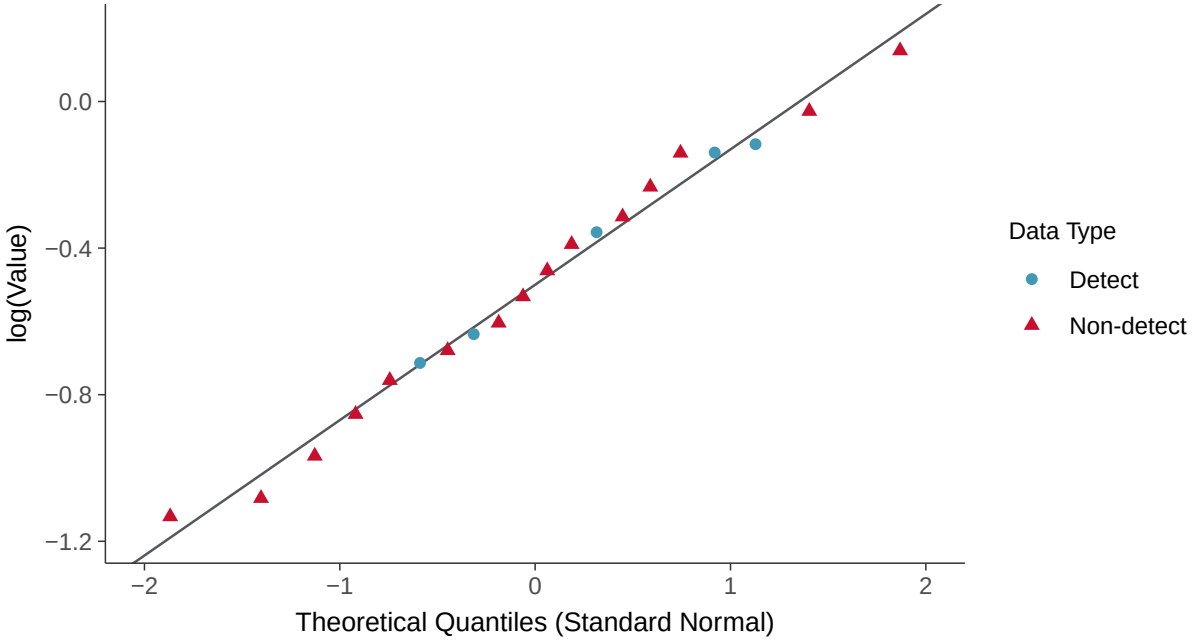
Normal Q-Q plot using ROS Imputed Estimates

Mercury, MW-06 (ng/L)



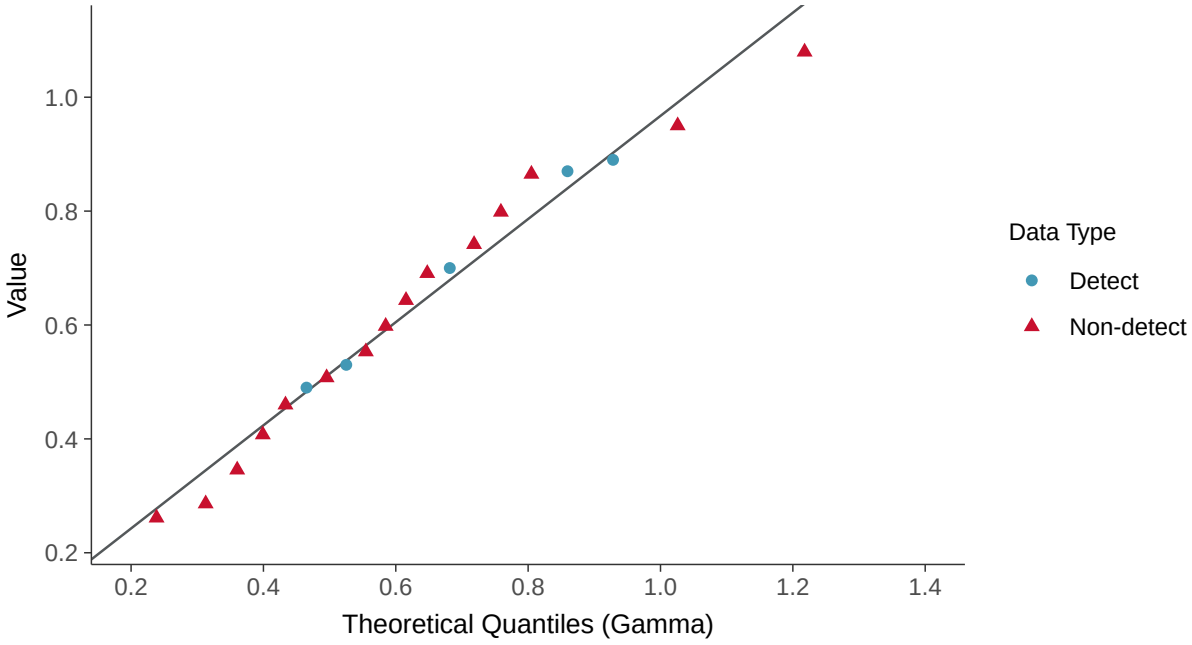
Lognormal Q-Q plot using ROS Imputed Estimates

Mercury, MW-06 (ng/L)



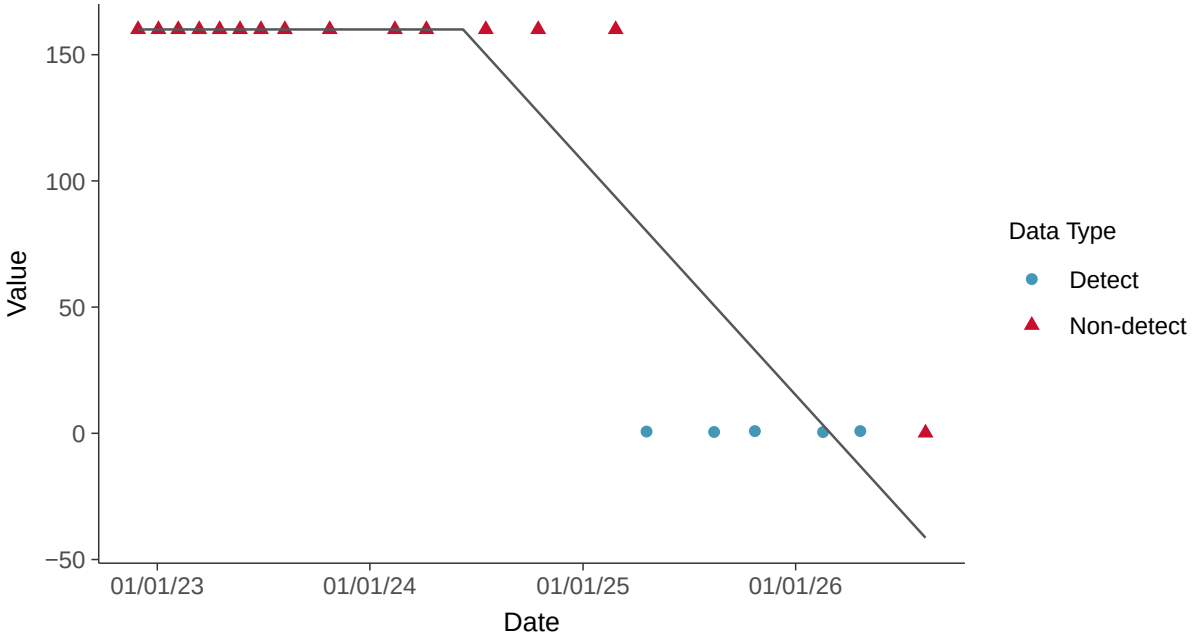
Gamma Q-Q plot using ROS Imputed Estimates

Mercury, MW-06 (ng/L)



Trend Regression: Piecewise Linear-Linear

Mercury, MW-06 (ng/L)

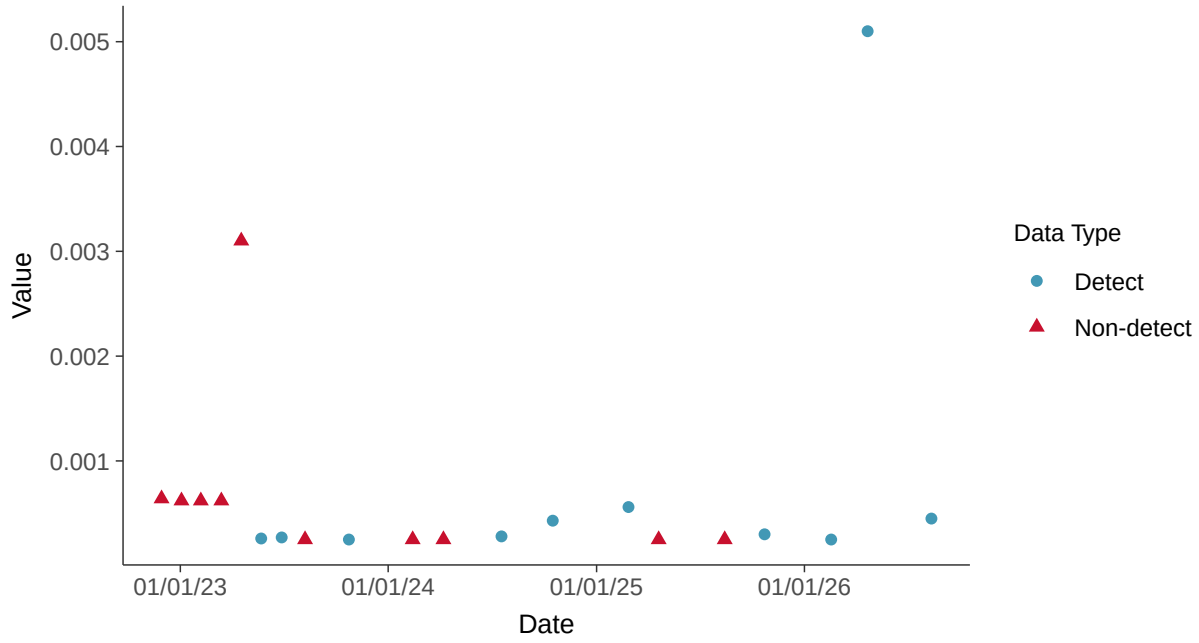


Appendix IV: Molybdenum, MW-06

ID: 16_1_4_118

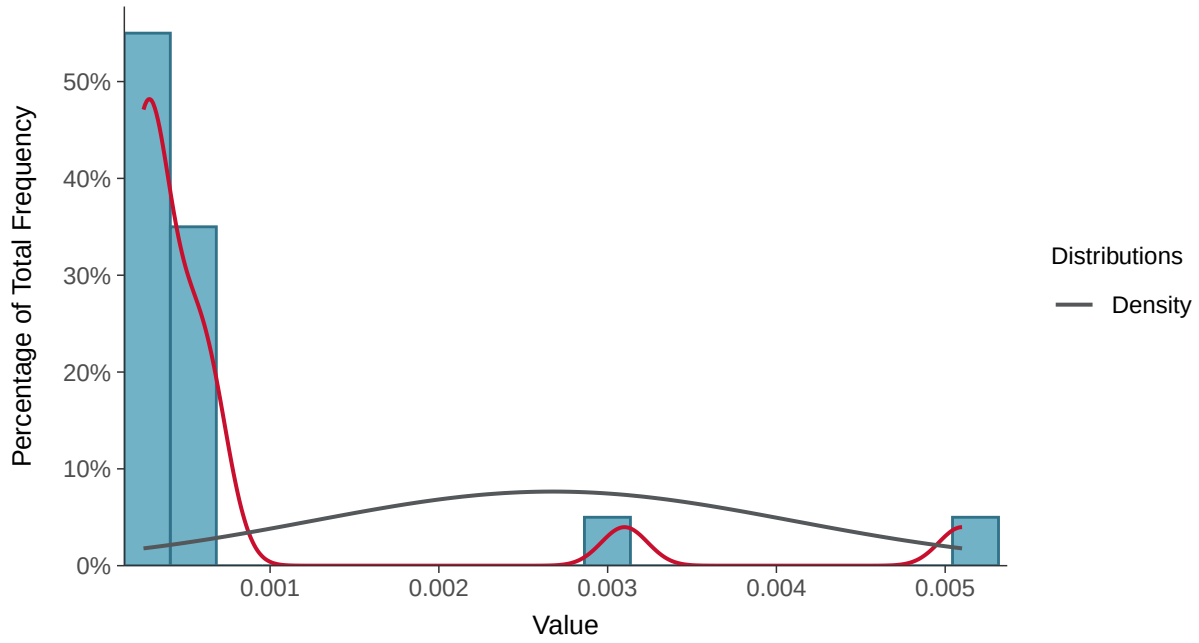
Scatter Plot

Molybdenum, MW-06 (mg/L)



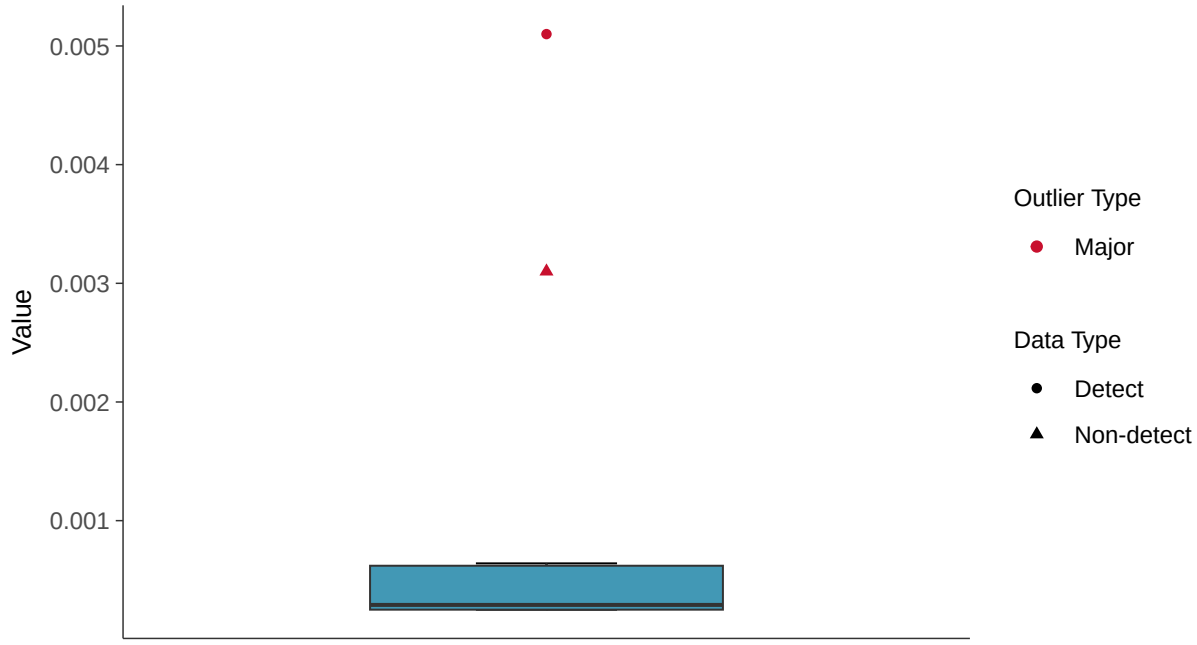
Histogram

Molybdenum, MW-06 (mg/L)



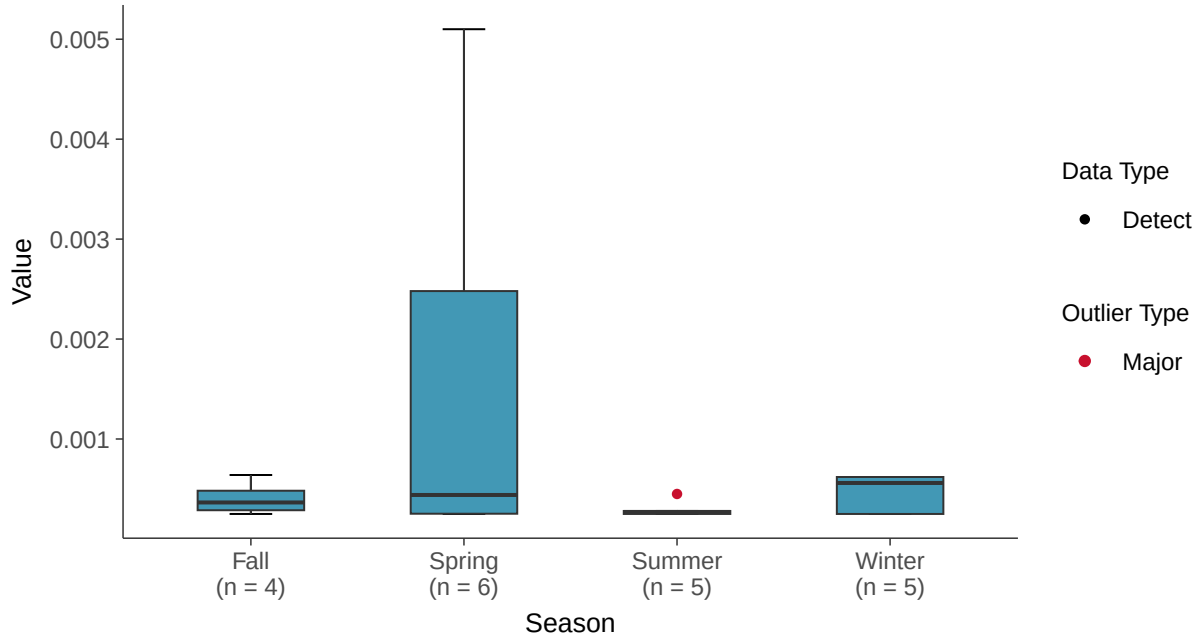
Boxplot

Molybdenum, MW-06 (mg/L)



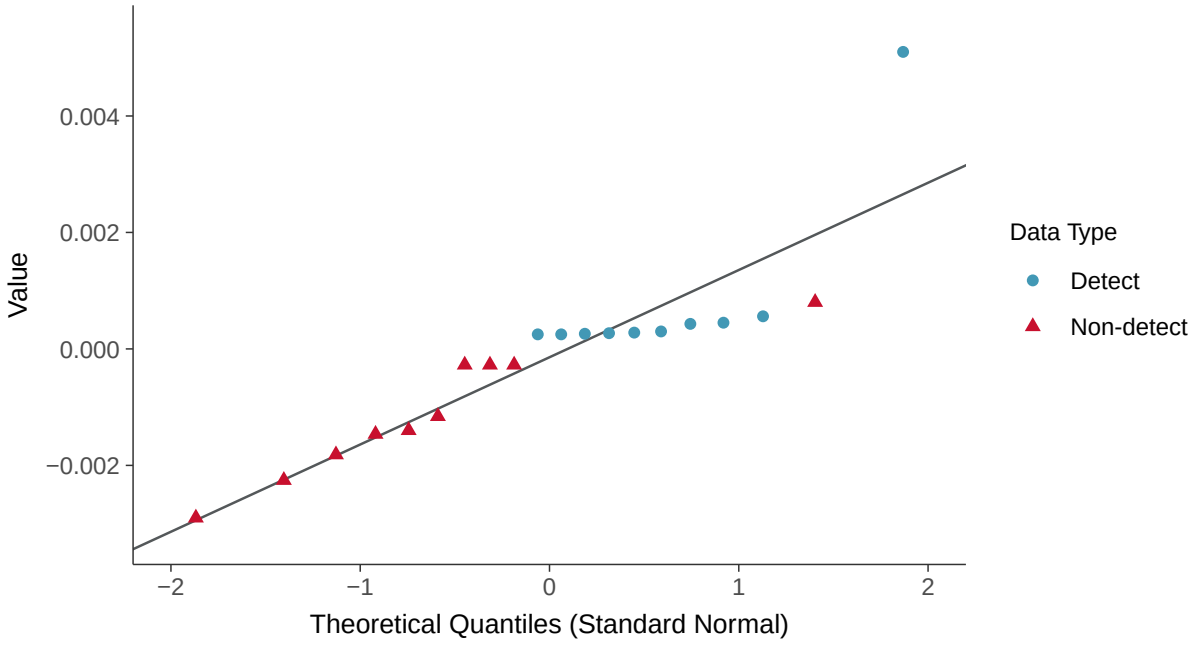
Boxplot by Season

Molybdenum, MW-06 (mg/L)



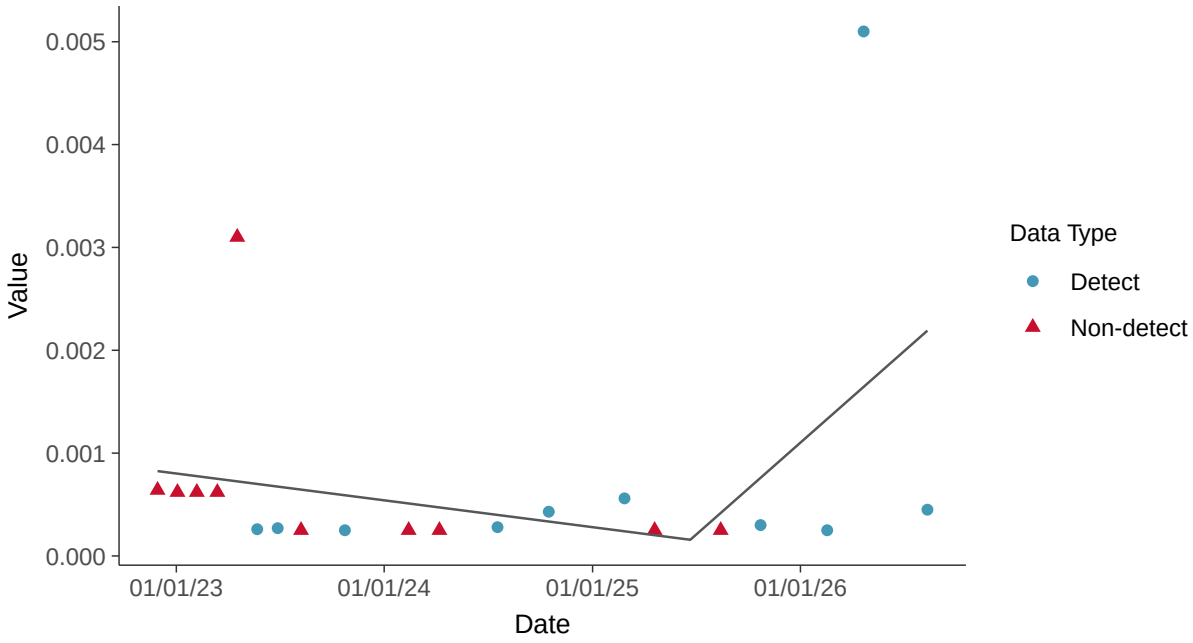
Normal Q-Q plot using ROS Imputed Estimates

Molybdenum, MW-06 (mg/L)



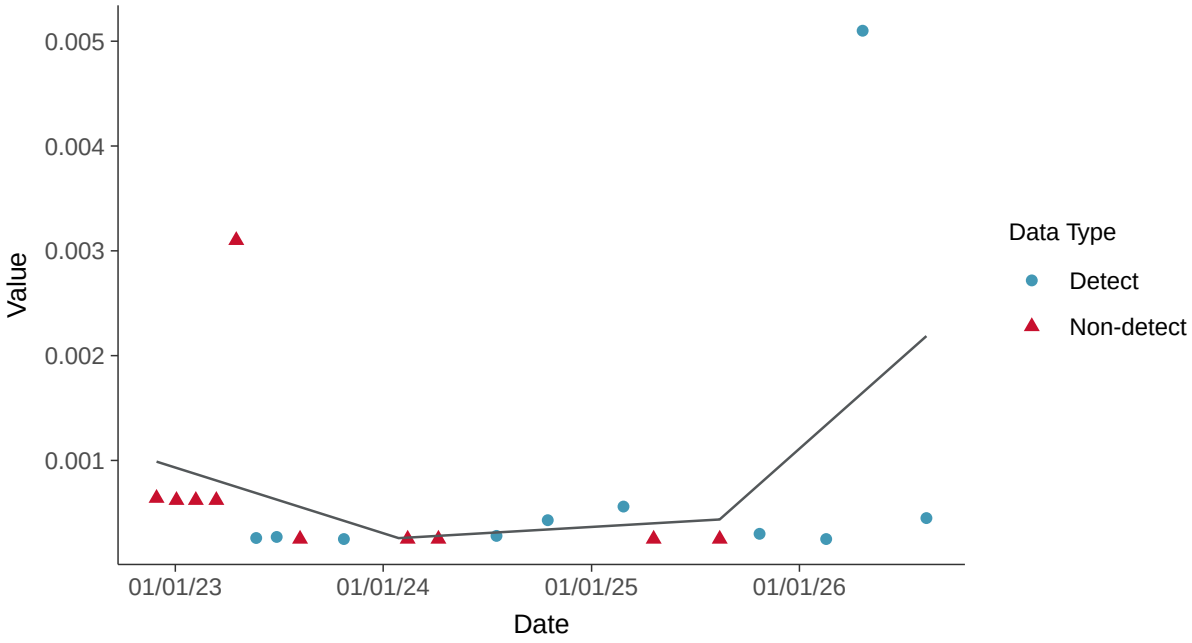
Trend Regression: Piecewise Linear-Linear

Molybdenum, MW-06 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Molybdenum, MW-06 (mg/L)

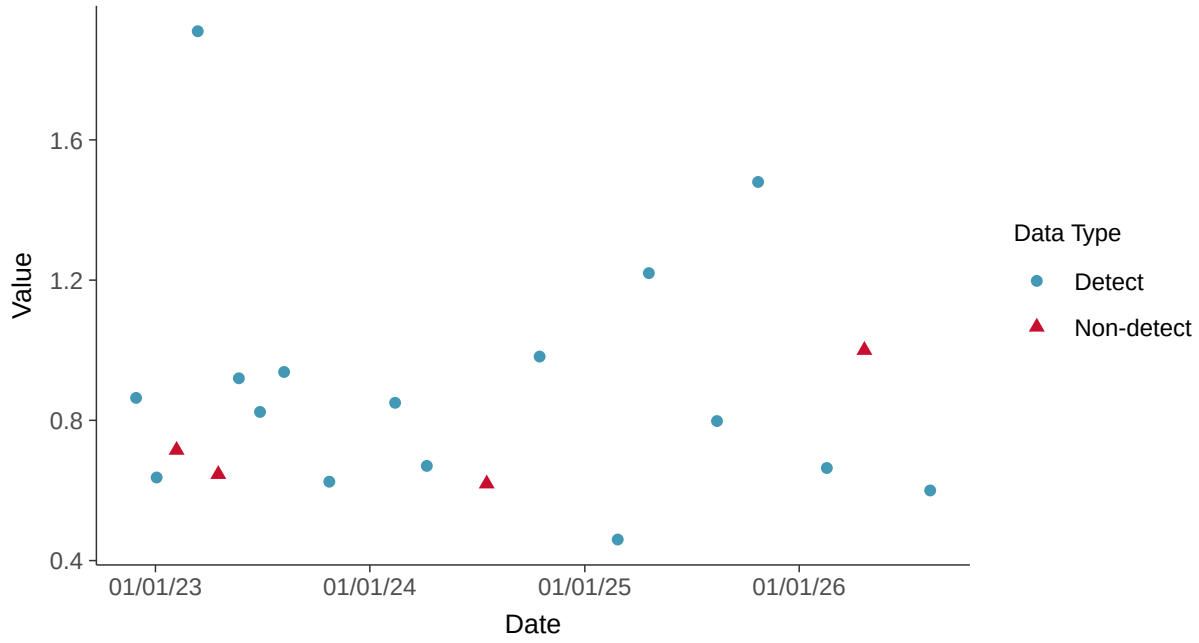


Appendix IV: Radium 226 and 228, MW-06

ID: 16_1_4_121

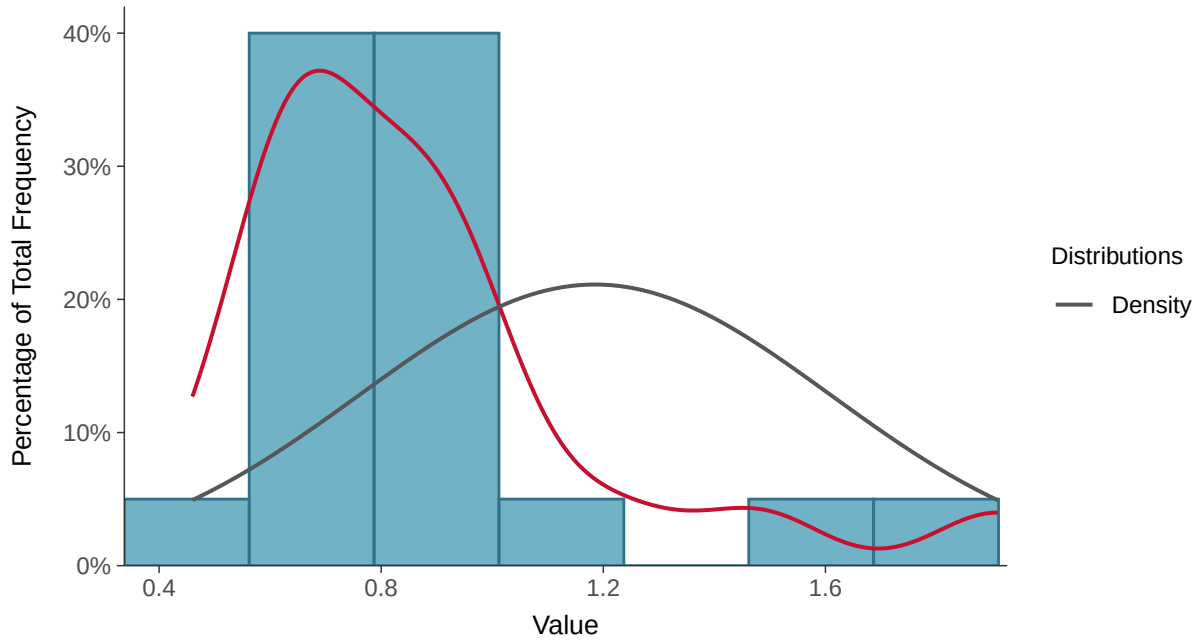
Scatter Plot

Radium 226 and 228, MW-06 (pCi/L)



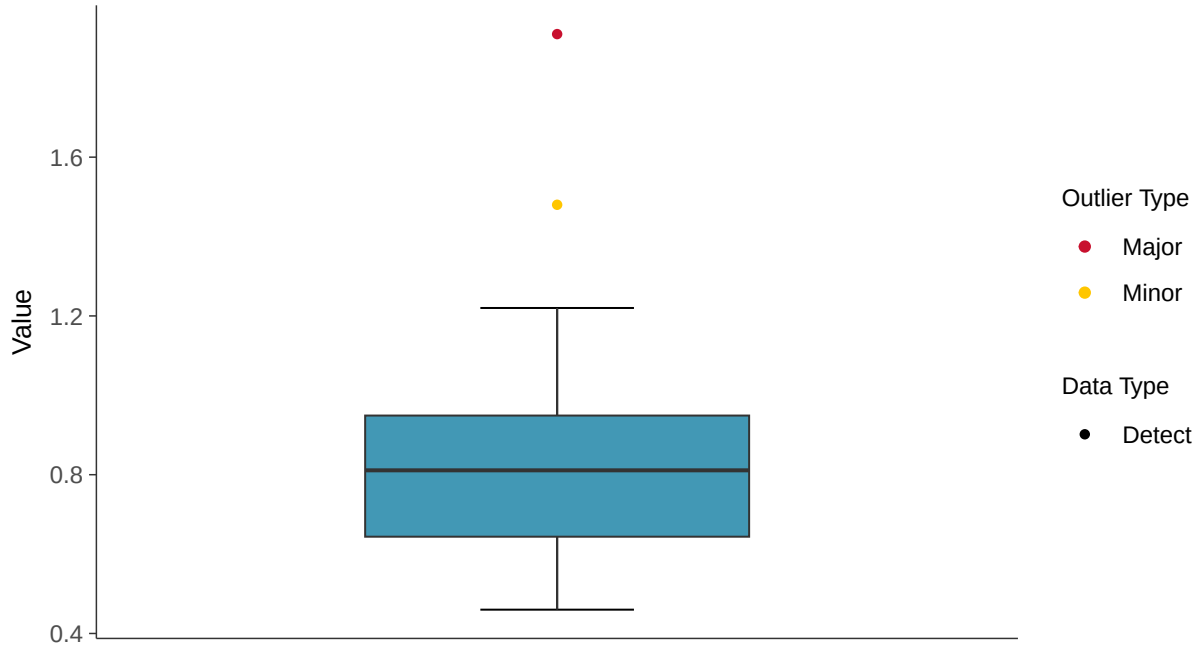
Histogram

Radium 226 and 228, MW-06 (pCi/L)



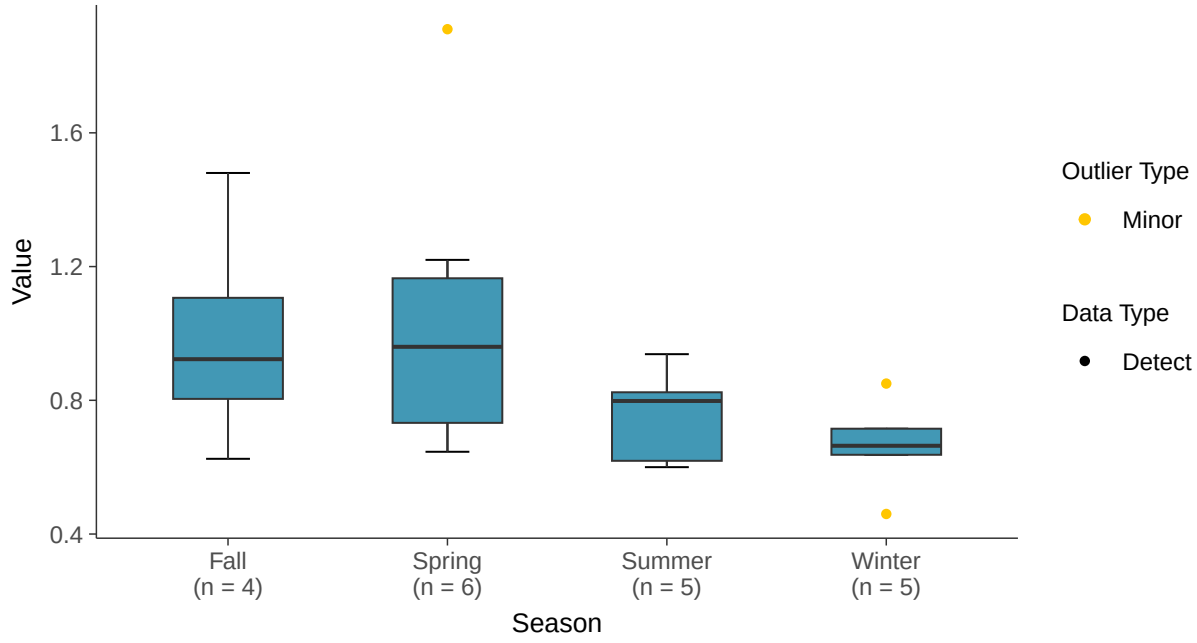
Boxplot

Radium 226 and 228, MW-06 (pCi/L)



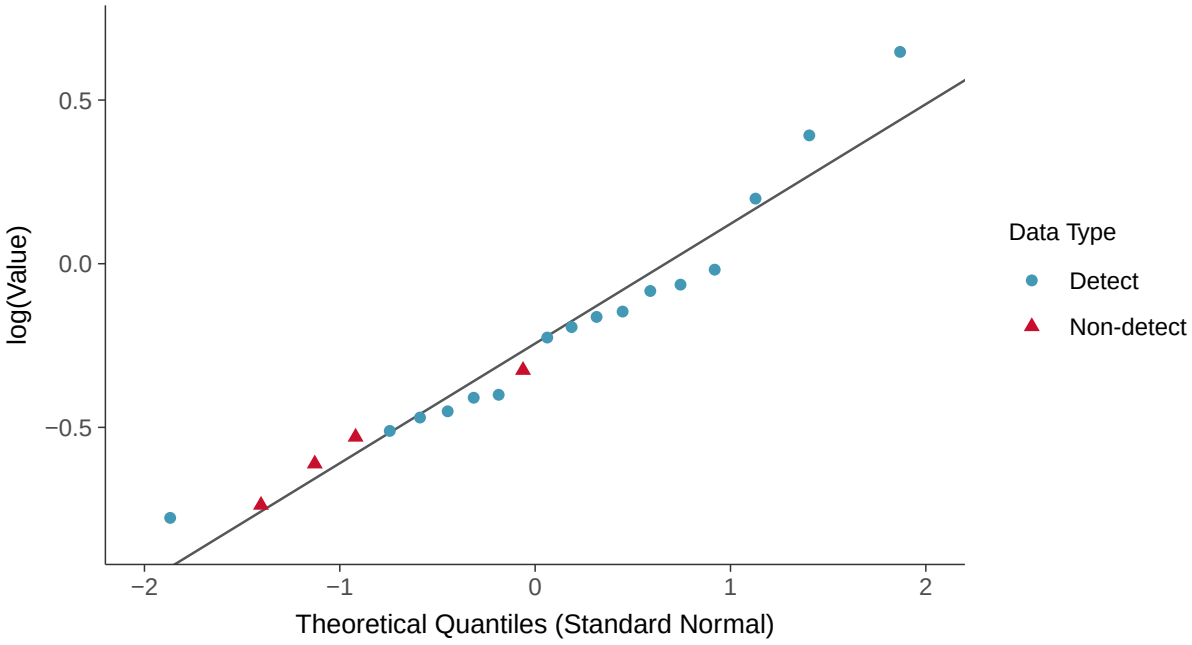
Boxplot by Season

Radium 226 and 228, MW-06 (pCi/L)



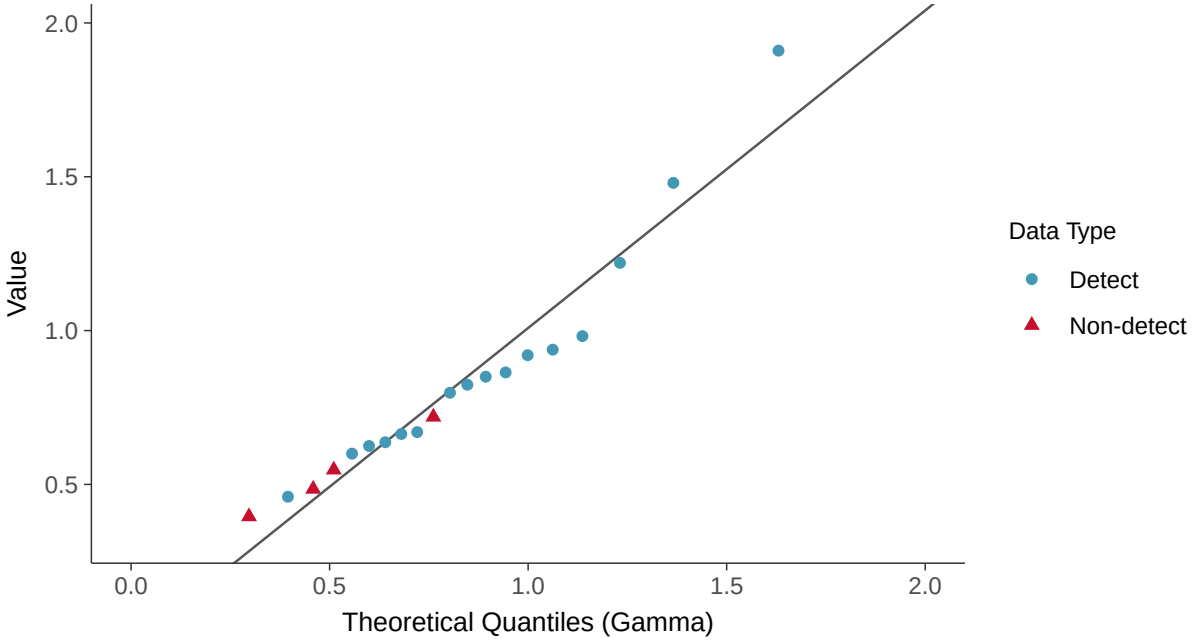
Lognormal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-06 (pCi/L)



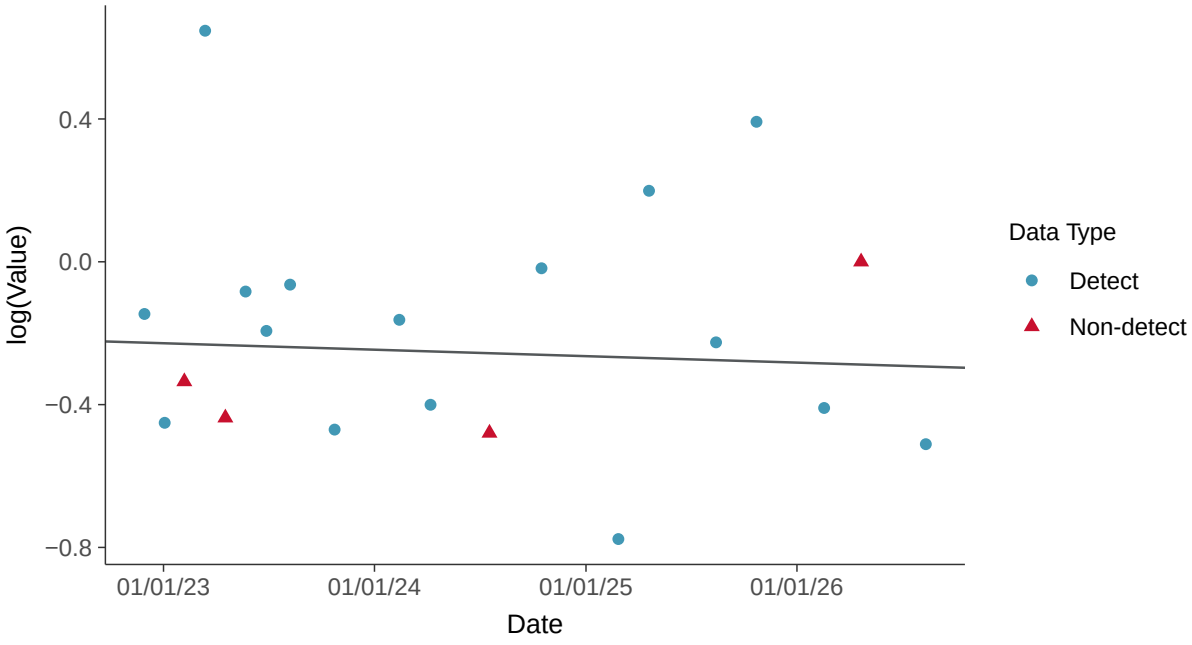
Gamma Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-06 (pCi/L)



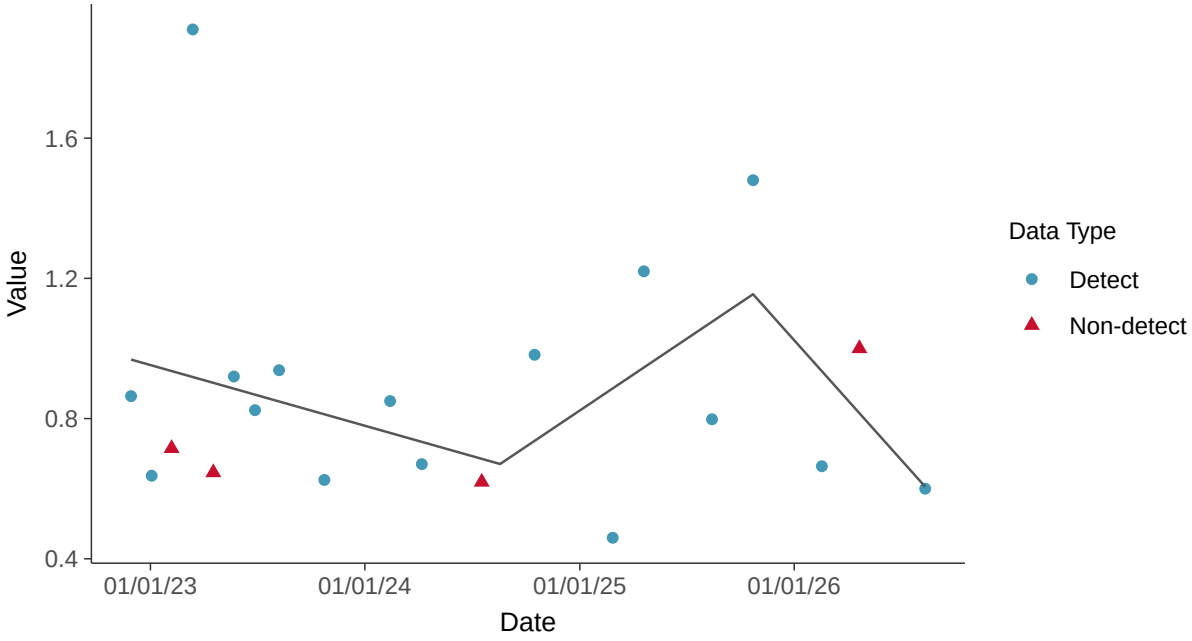
Trend Regression: Lognormal MLE

Radium 226 and 228, MW-06 (pCi/L)



Trend Regression: Piecewise Linear-Linear-Linear

Radium 226 and 228, MW-06 (pCi/L)

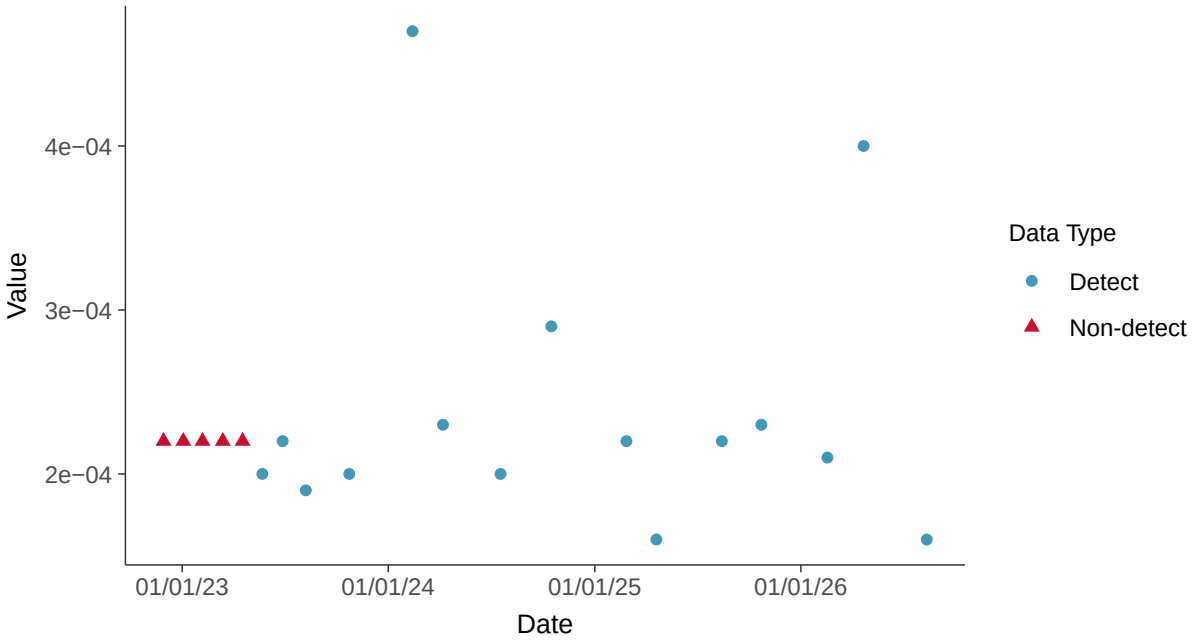


Appendix IV: Selenium, MW-06

ID: 16_1_4_122

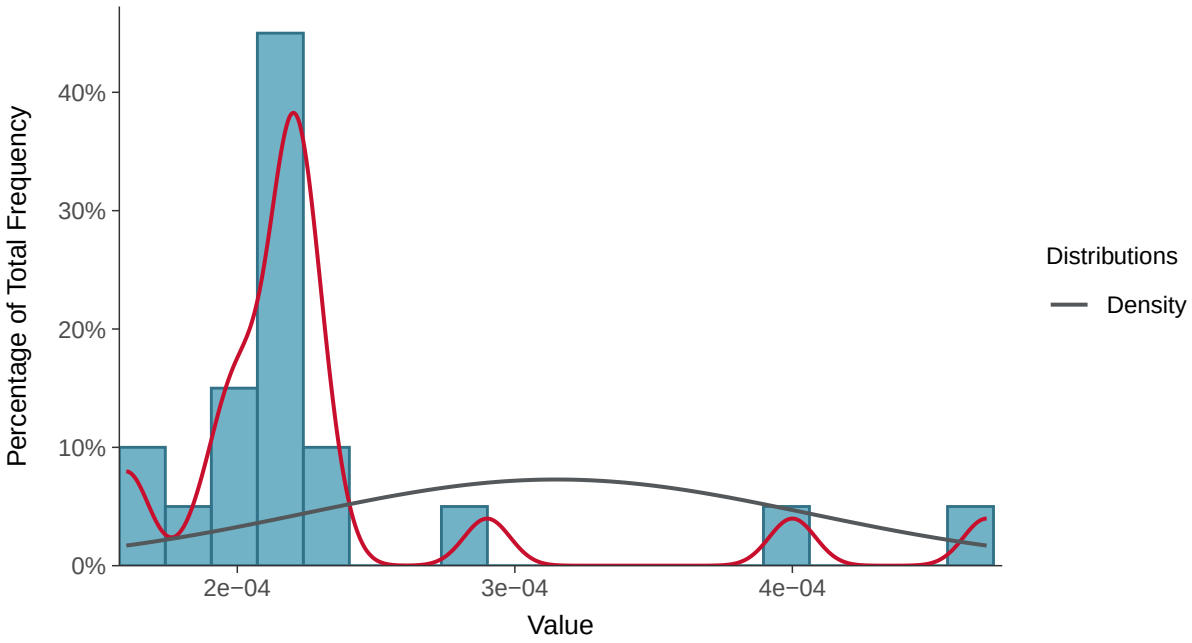
Scatter Plot

Selenium, MW-06 (mg/L)



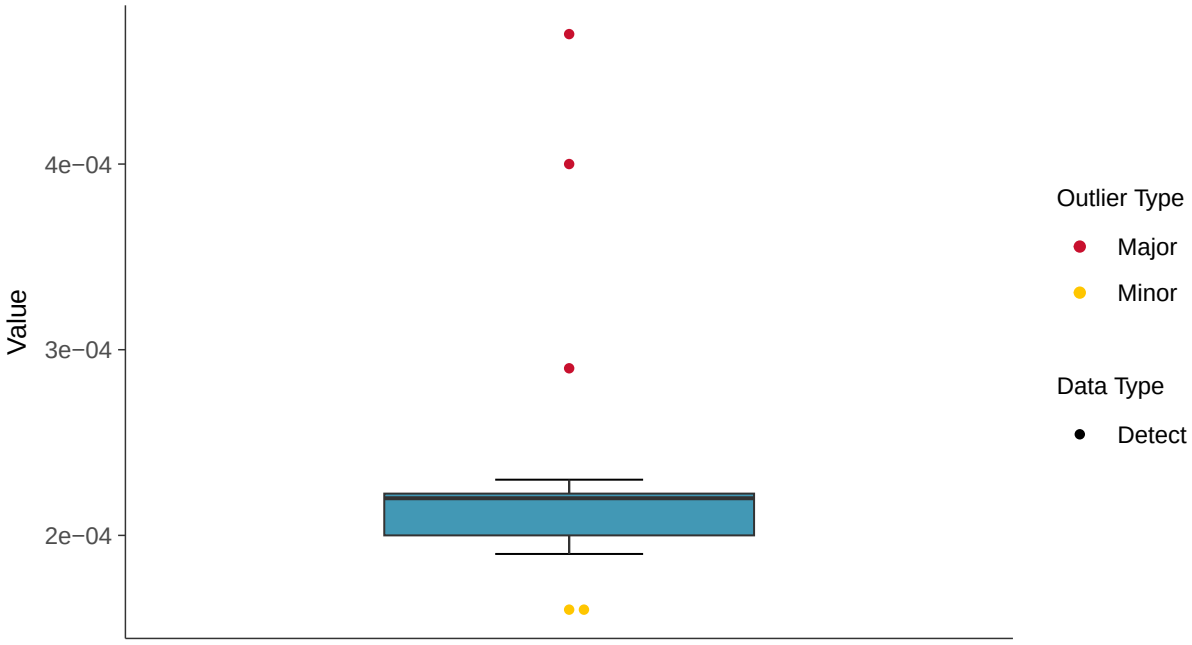
Histogram

Selenium, MW-06 (mg/L)



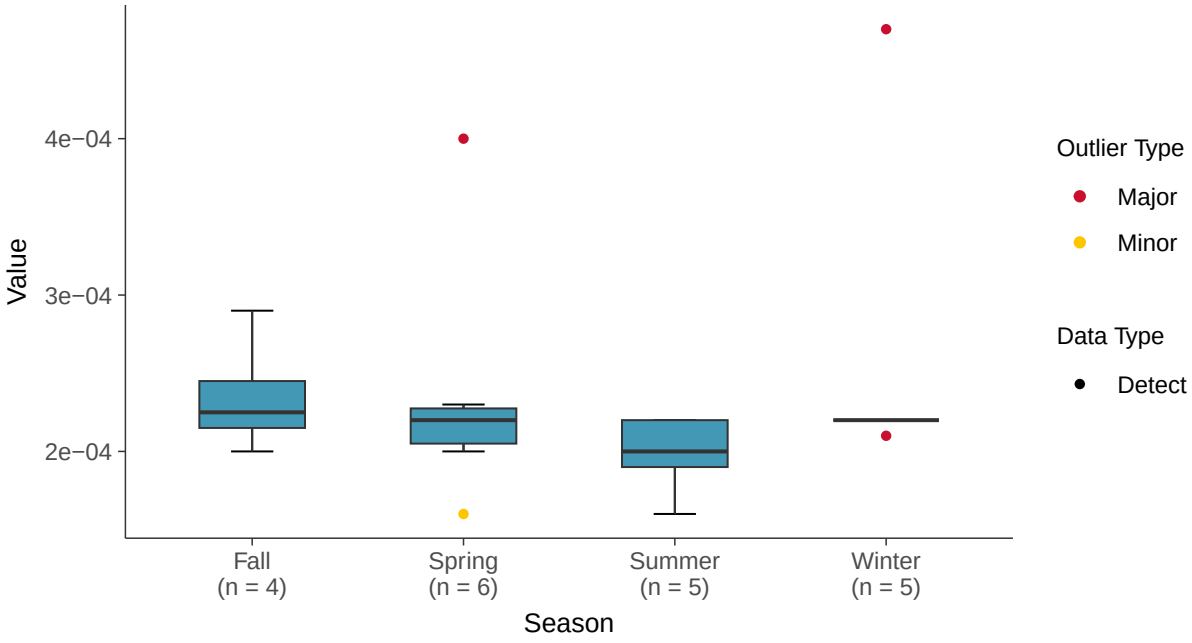
Boxplot

Selenium, MW-06 (mg/L)



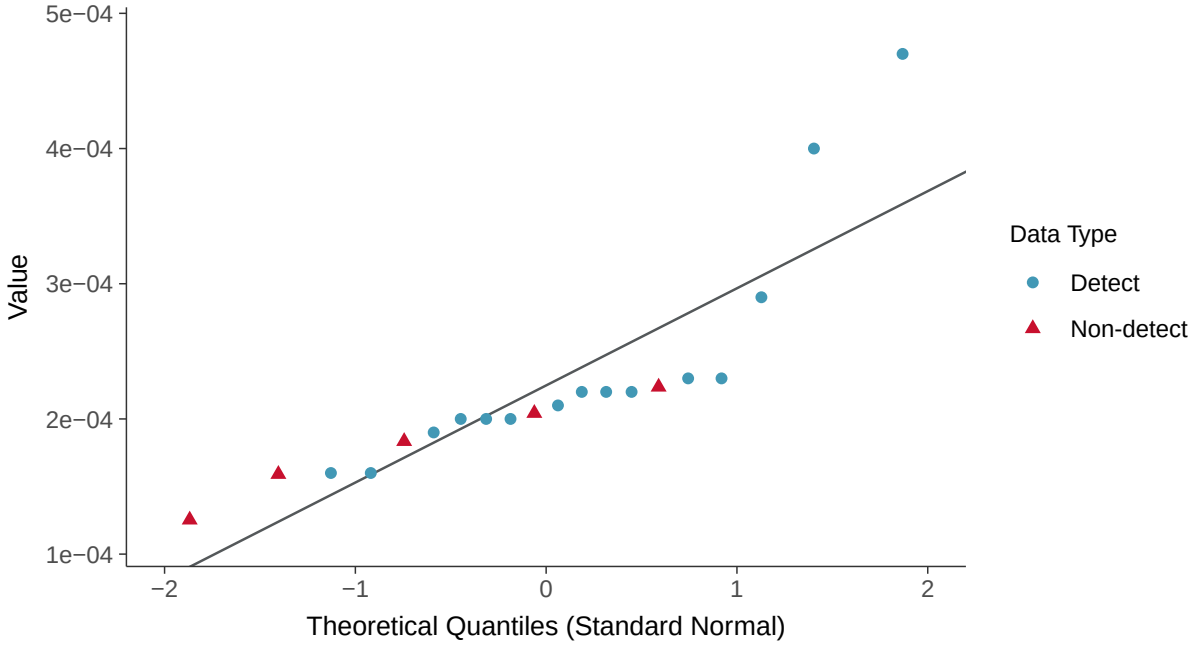
Boxplot by Season

Selenium, MW-06 (mg/L)



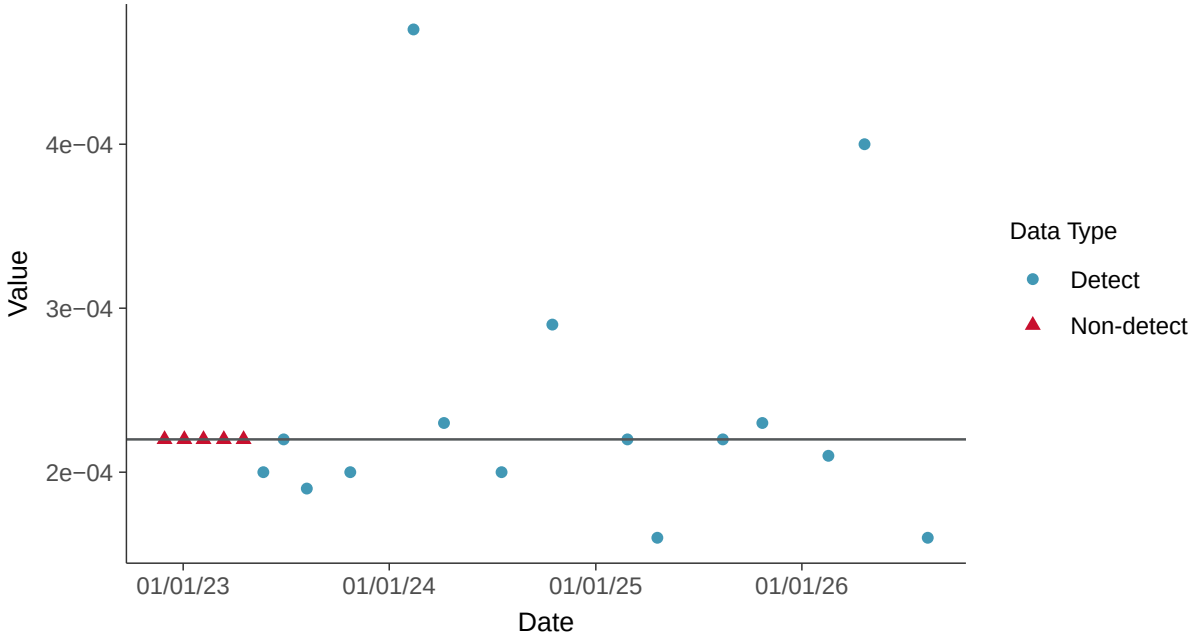
Normal Q-Q plot using ROS Imputed Estimates

Selenium, MW-06 (mg/L)



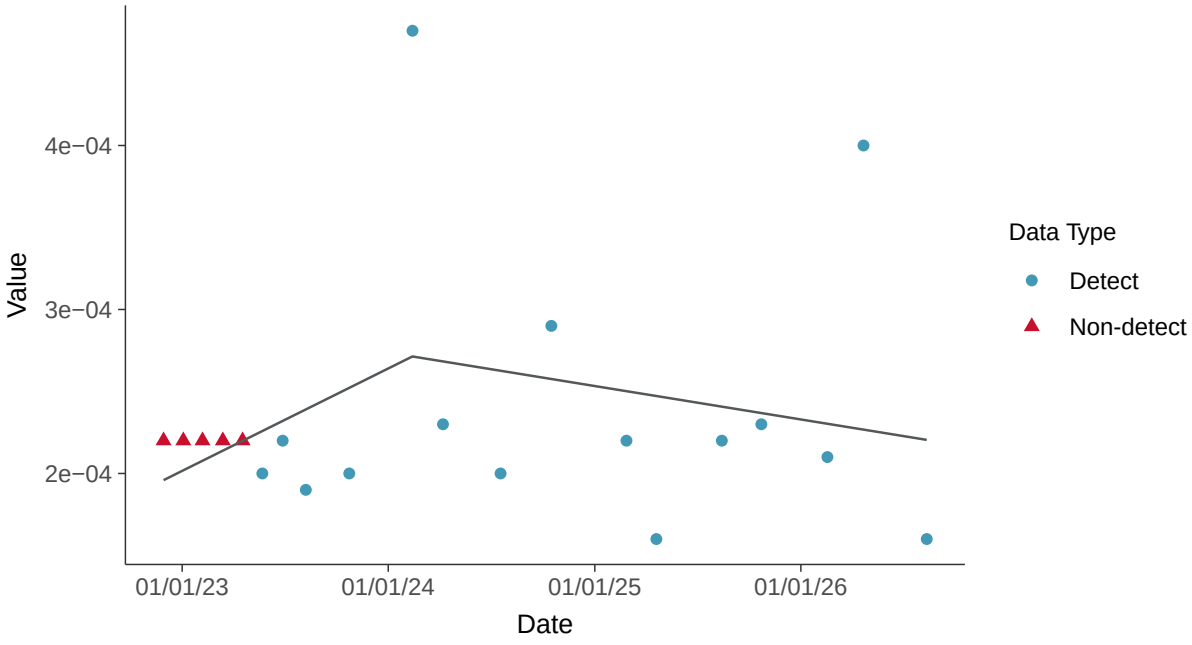
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Selenium, MW-06 (mg/L)



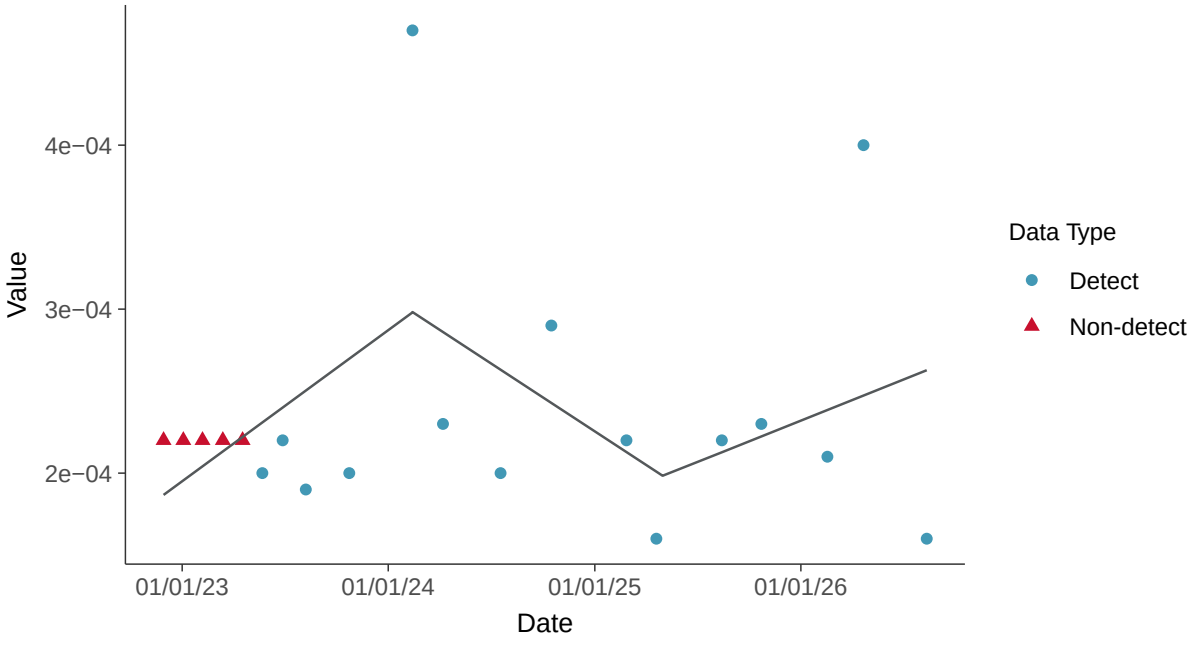
Trend Regression: Piecewise Linear-Linear

Selenium, MW-06 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Selenium, MW-06 (mg/L)

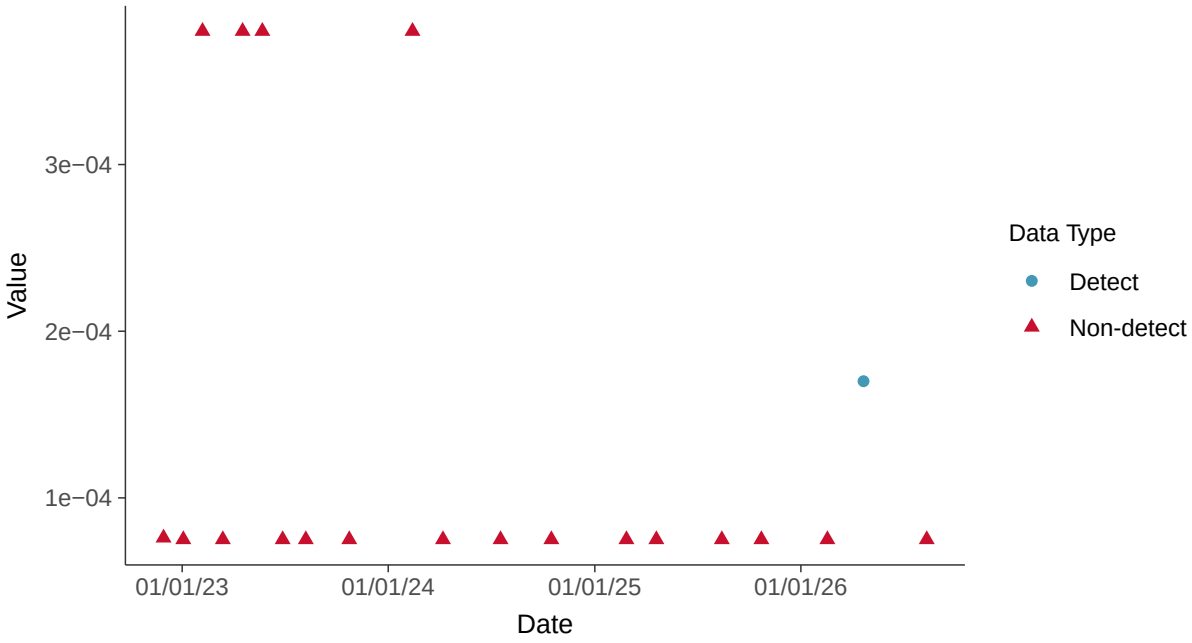


Appendix IV: Thallium, MW-06

ID: 16_1_4_125

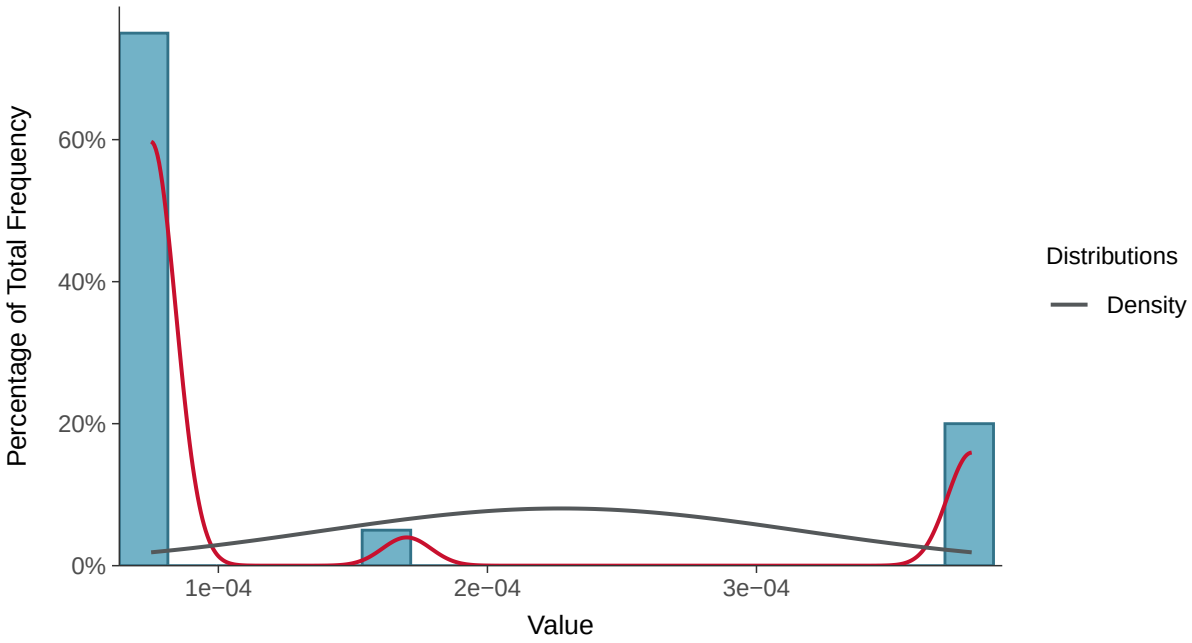
Scatter Plot

Thallium, MW-06 (mg/L)



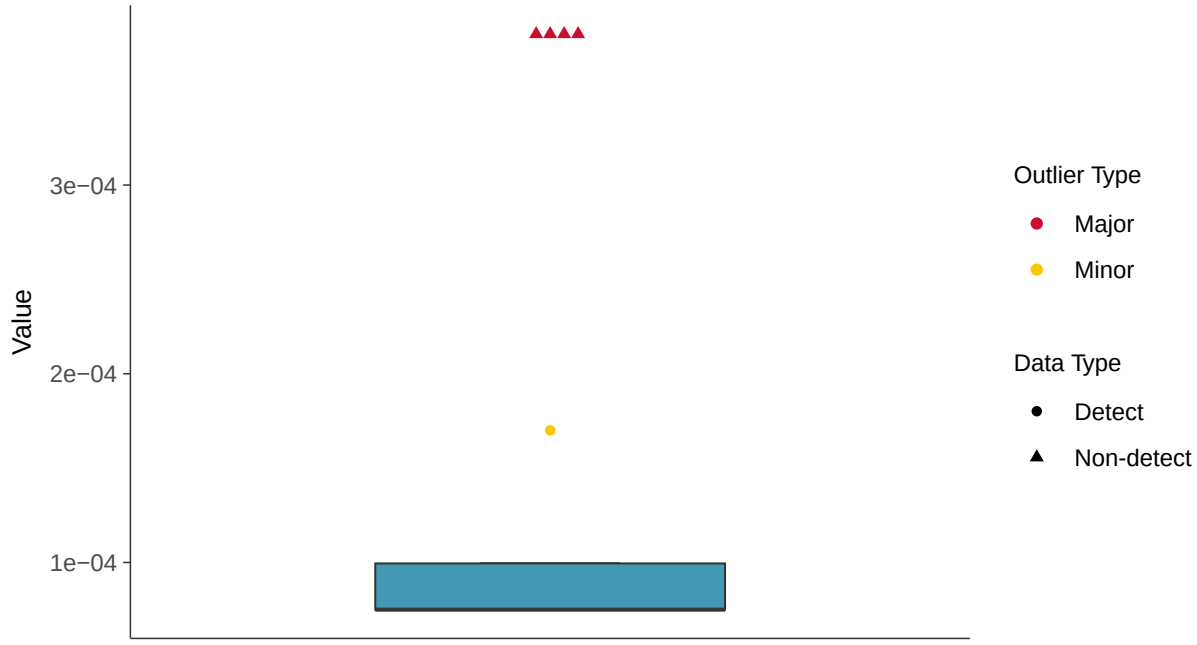
Histogram

Thallium, MW-06 (mg/L)



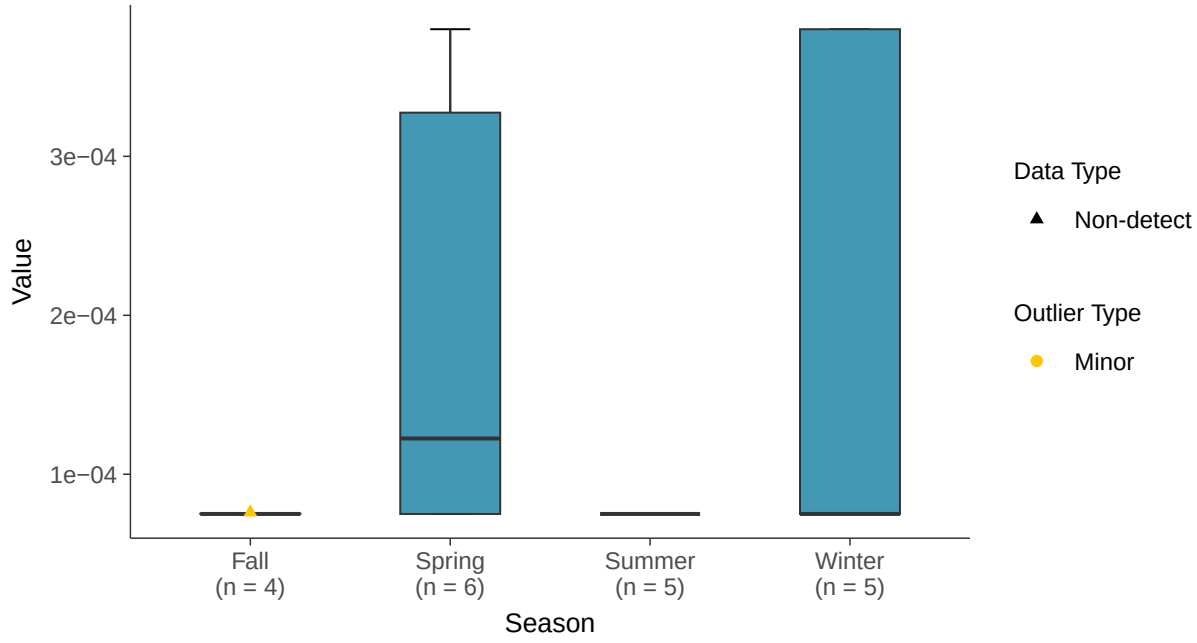
Boxplot

Thallium, MW-06 (mg/L)



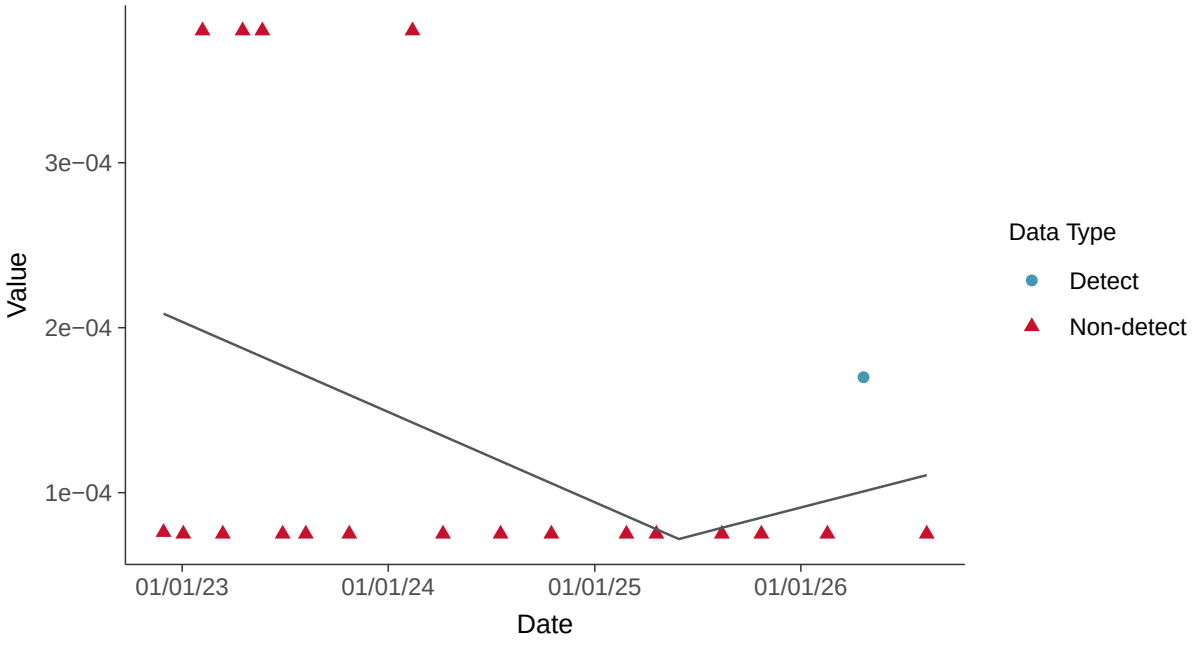
Boxplot by Season

Thallium, MW-06 (mg/L)



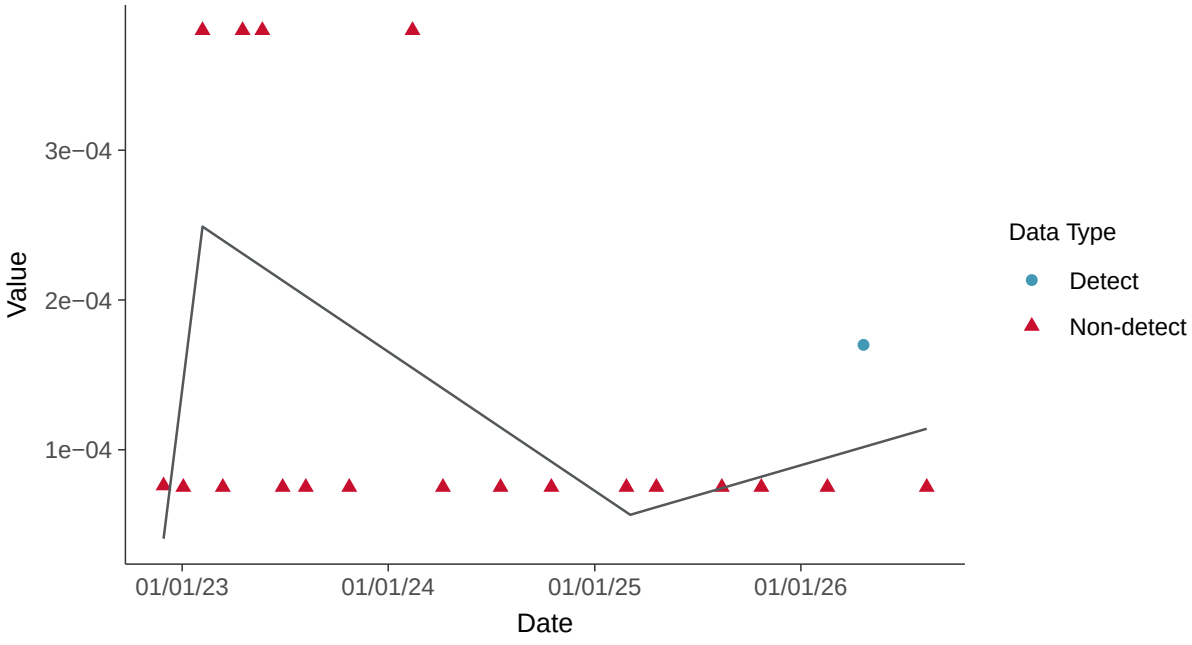
Trend Regression: Piecewise Linear-Linear

Thallium, MW-06 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Thallium, MW-06 (mg/L)

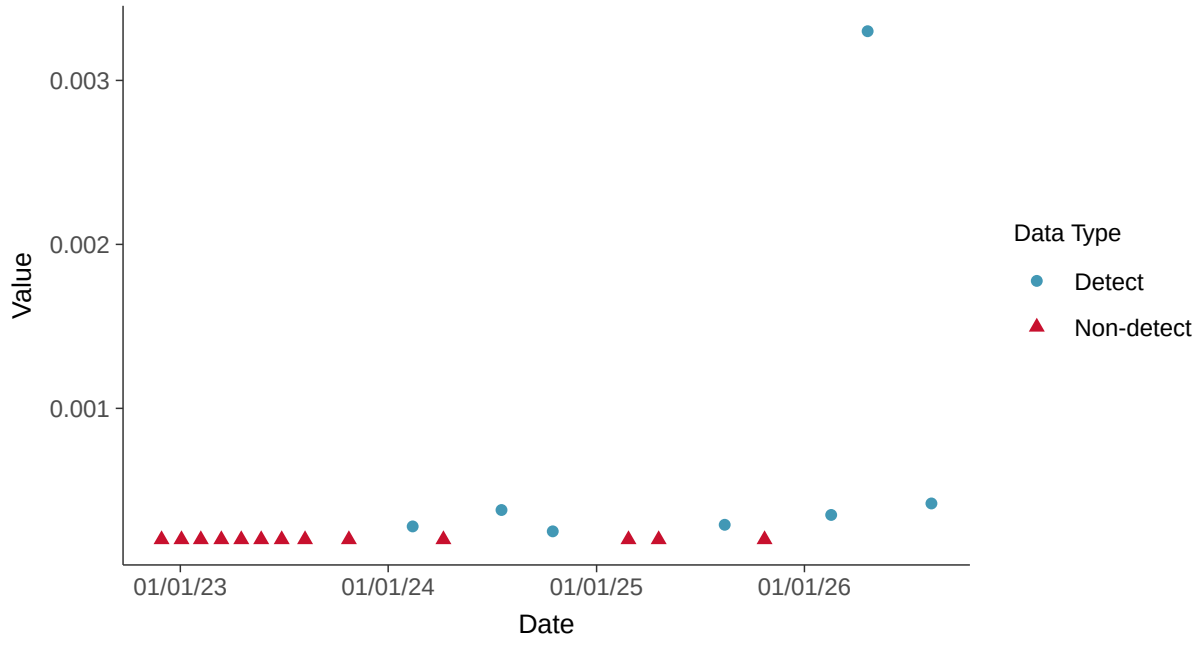


Part 115: Copper, MW-06

ID: 16_1_5_111

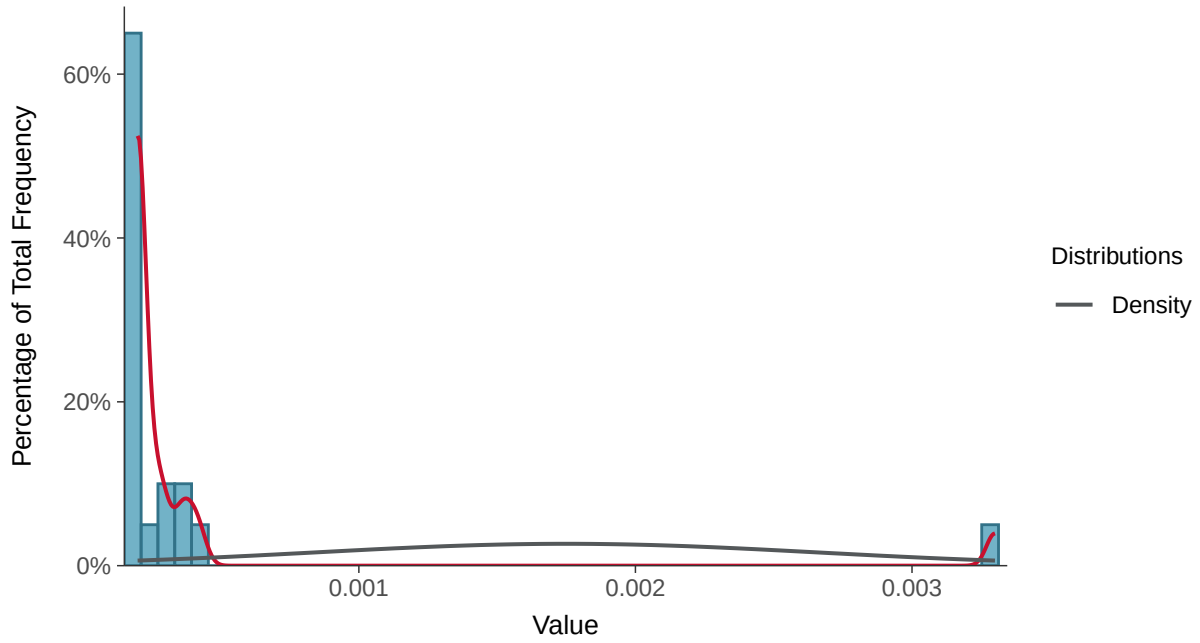
Scatter Plot

Copper, MW-06 (mg/L)



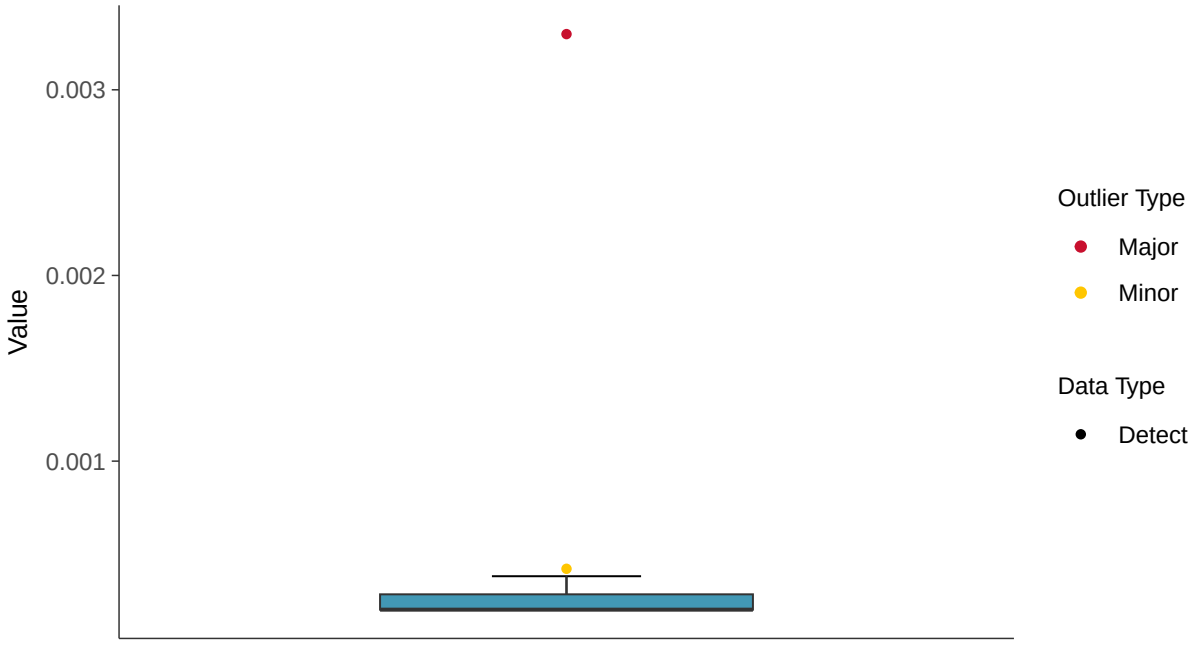
Histogram

Copper, MW-06 (mg/L)



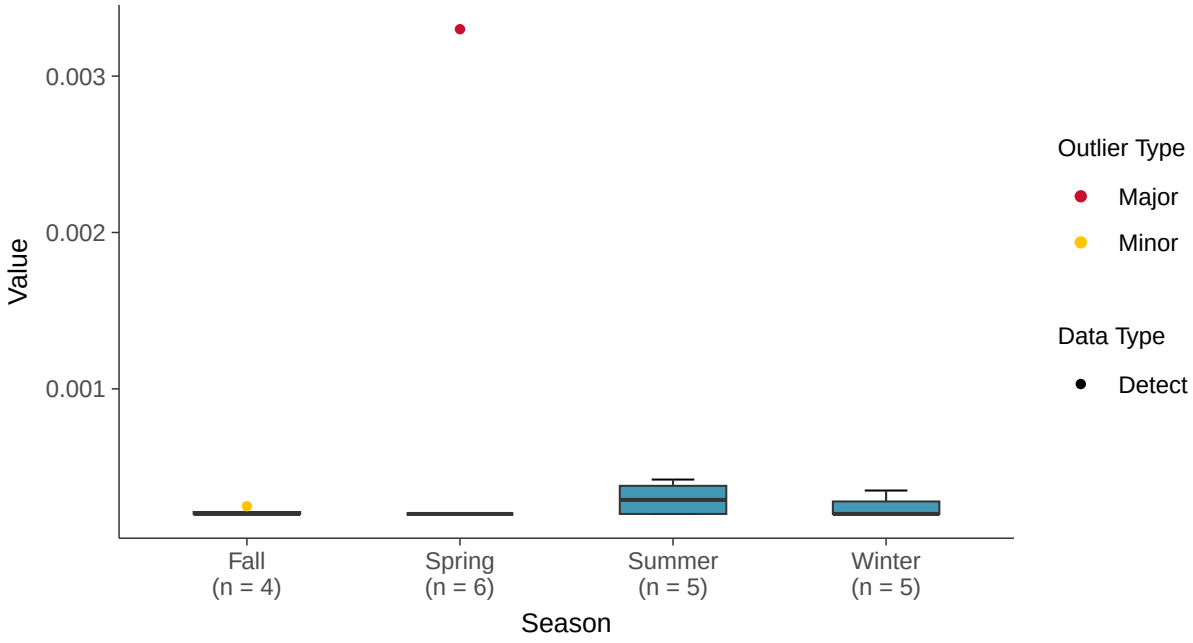
Boxplot

Copper, MW-06 (mg/L)



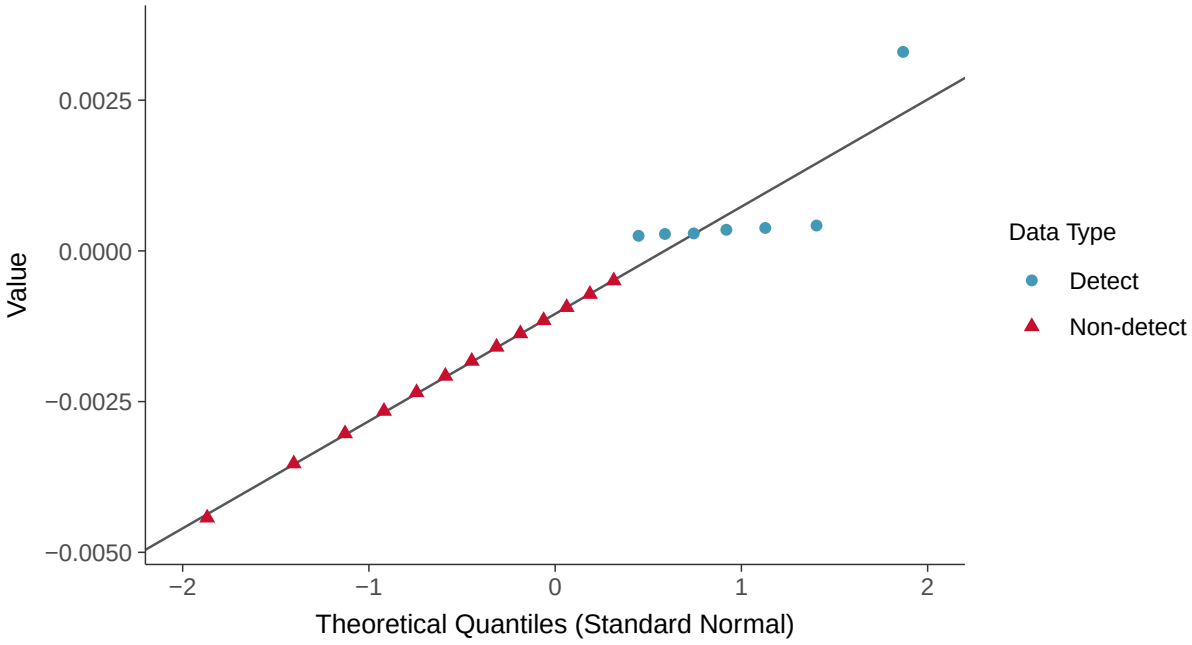
Boxplot by Season

Copper, MW-06 (mg/L)



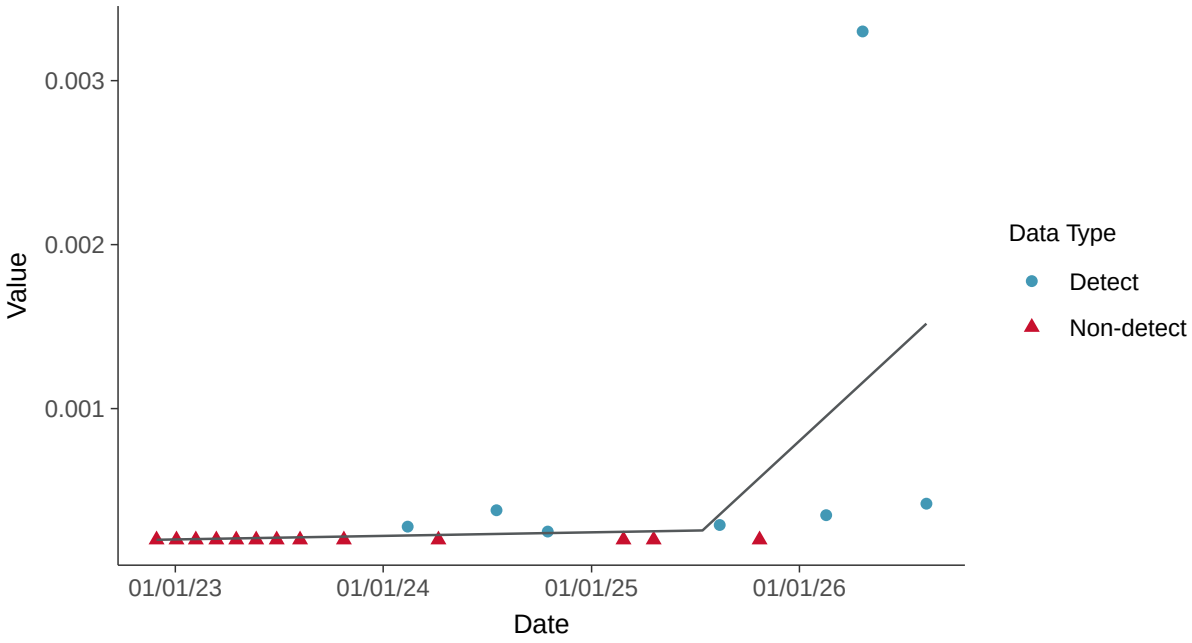
Normal Q-Q plot using ROS Imputed Estimates

Copper, MW-06 (mg/L)



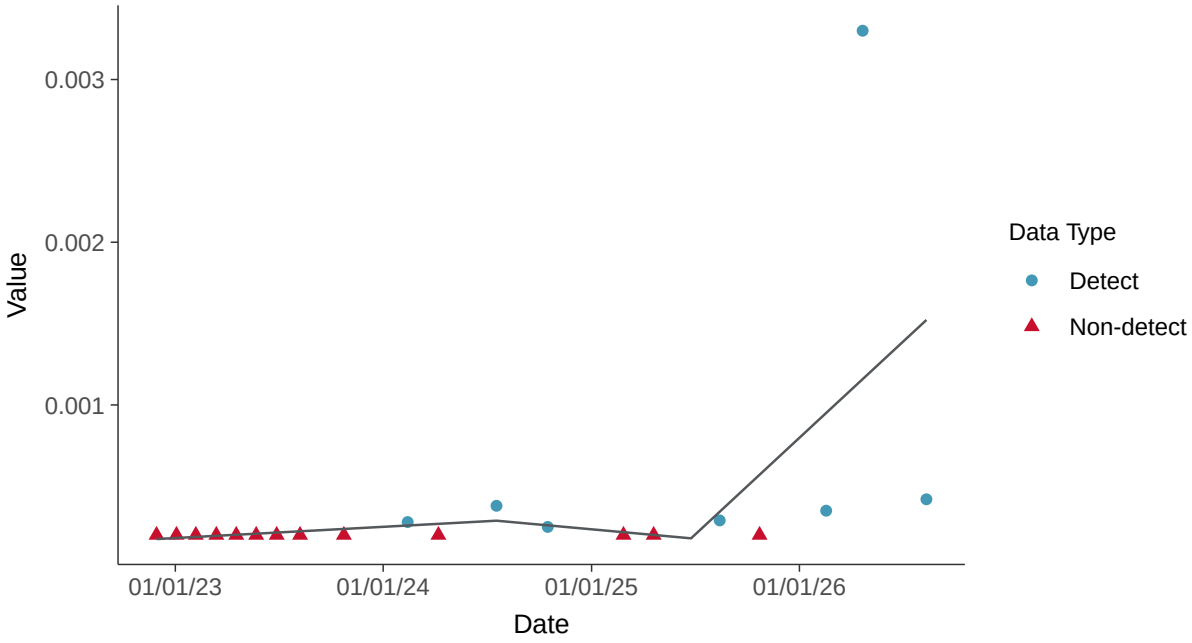
Trend Regression: Piecewise Linear-Linear

Copper, MW-06 (mg/L)



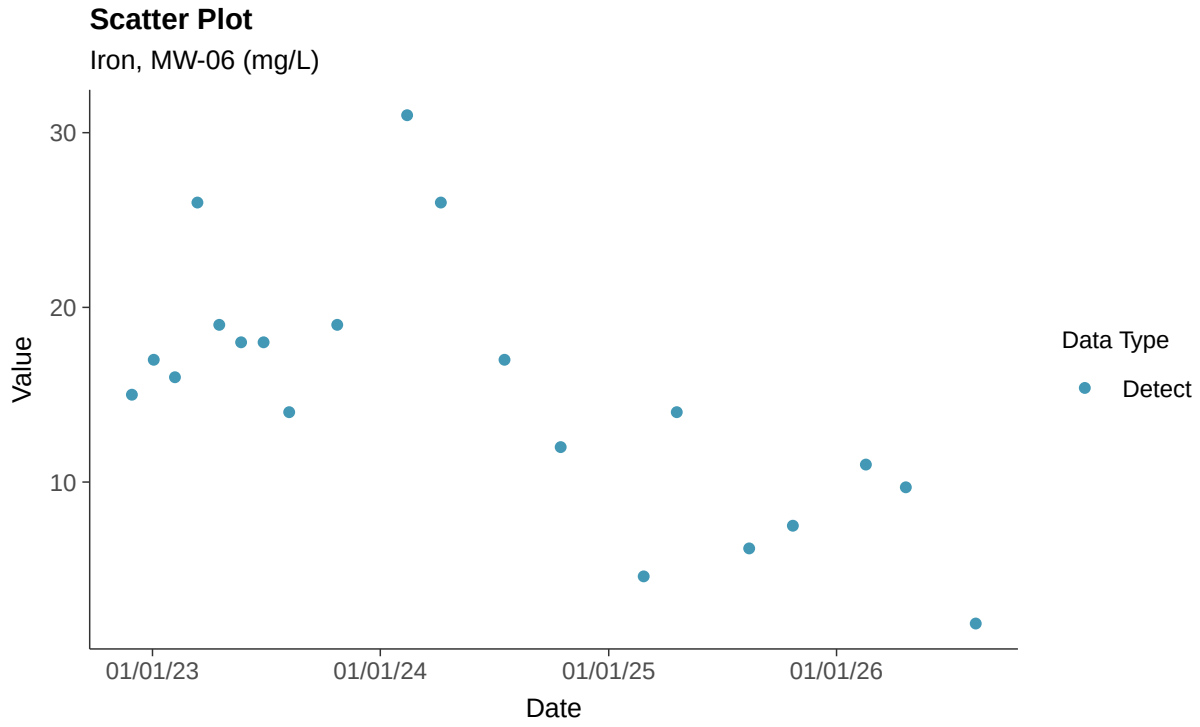
Trend Regression: Piecewise Linear-Linear-Linear

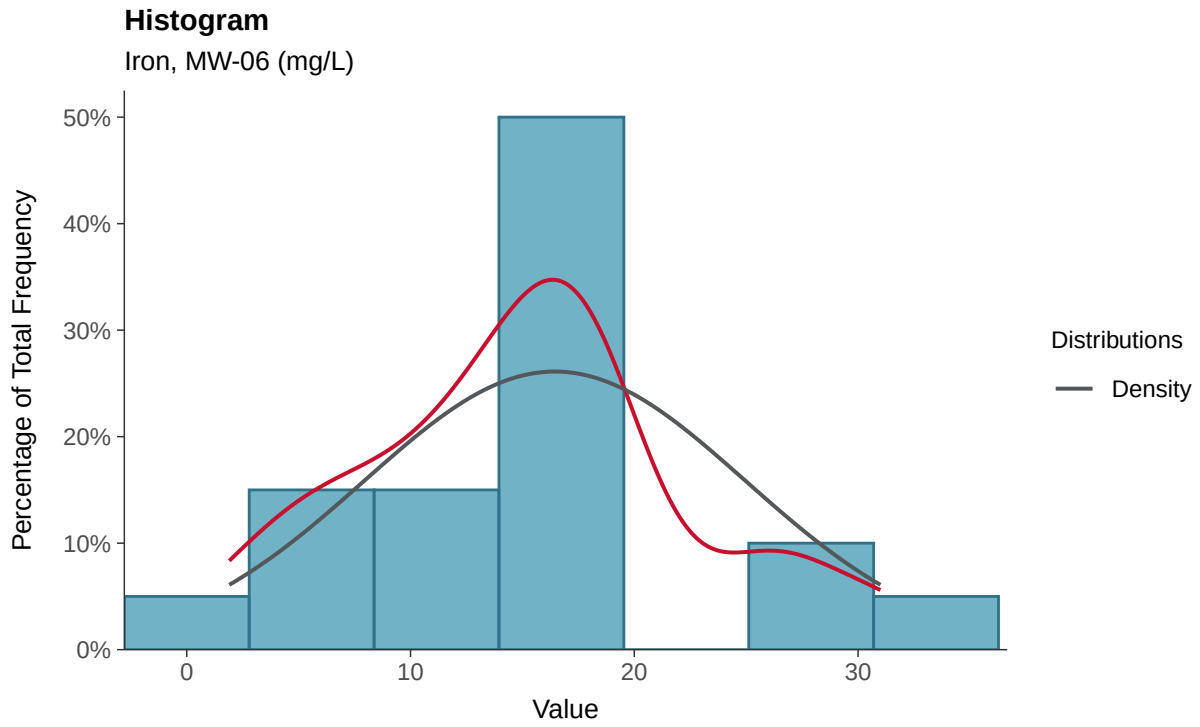
Copper, MW-06 (mg/L)



Part 115: Iron, MW-06

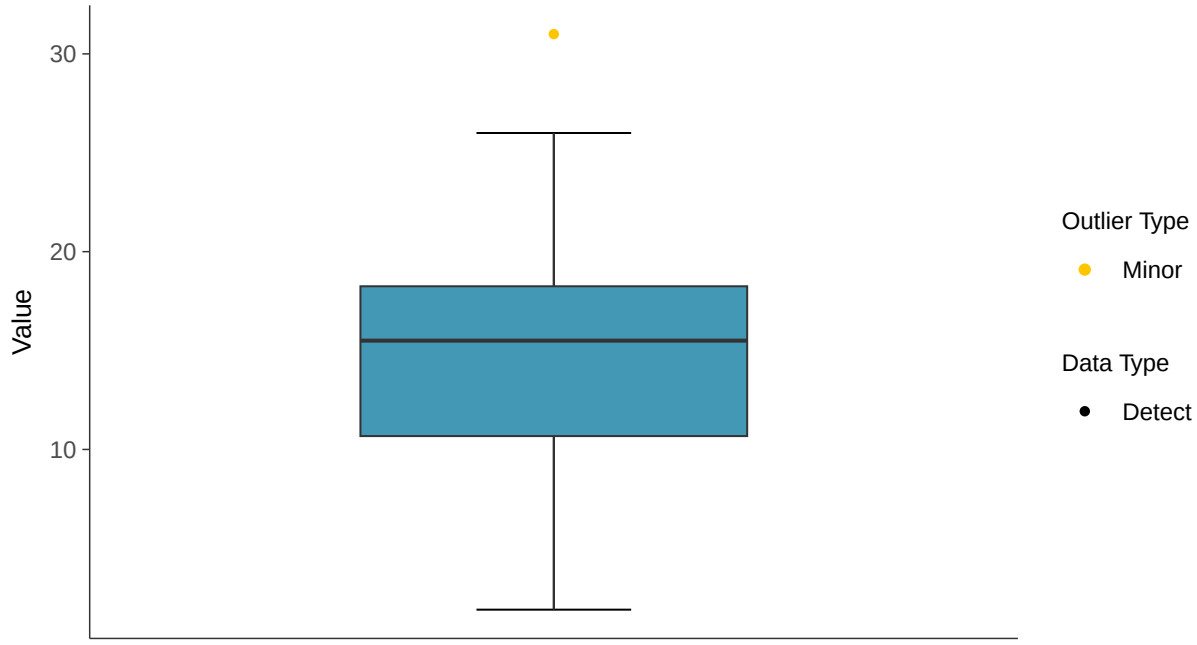
ID: 16_1_5_114





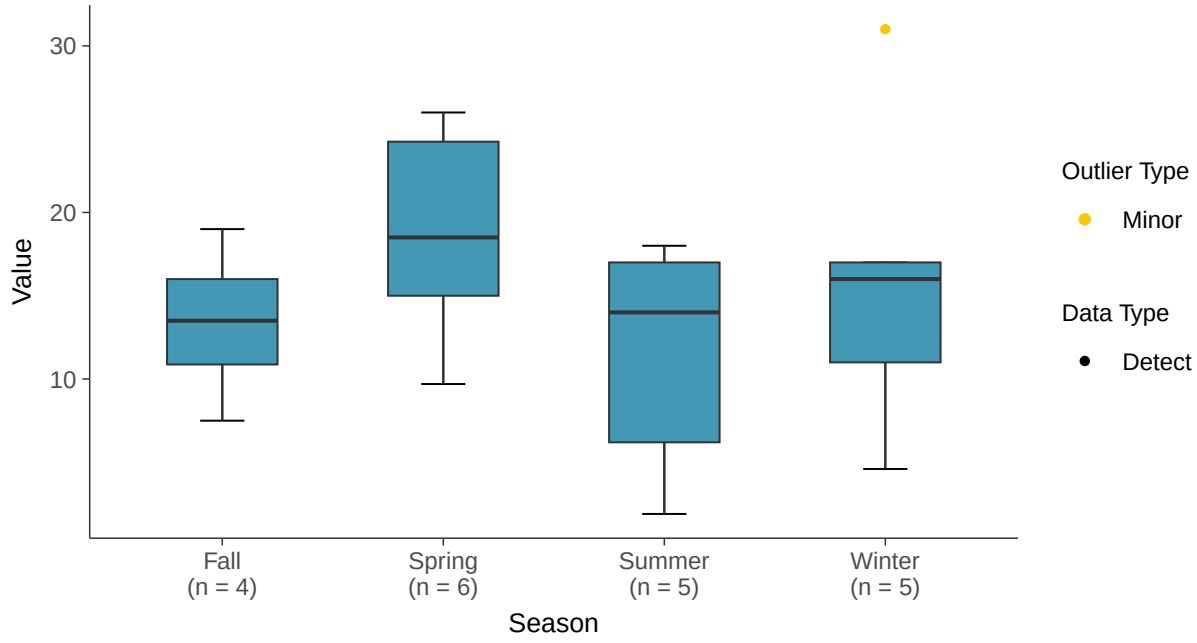
Boxplot

Iron, MW-06 (mg/L)



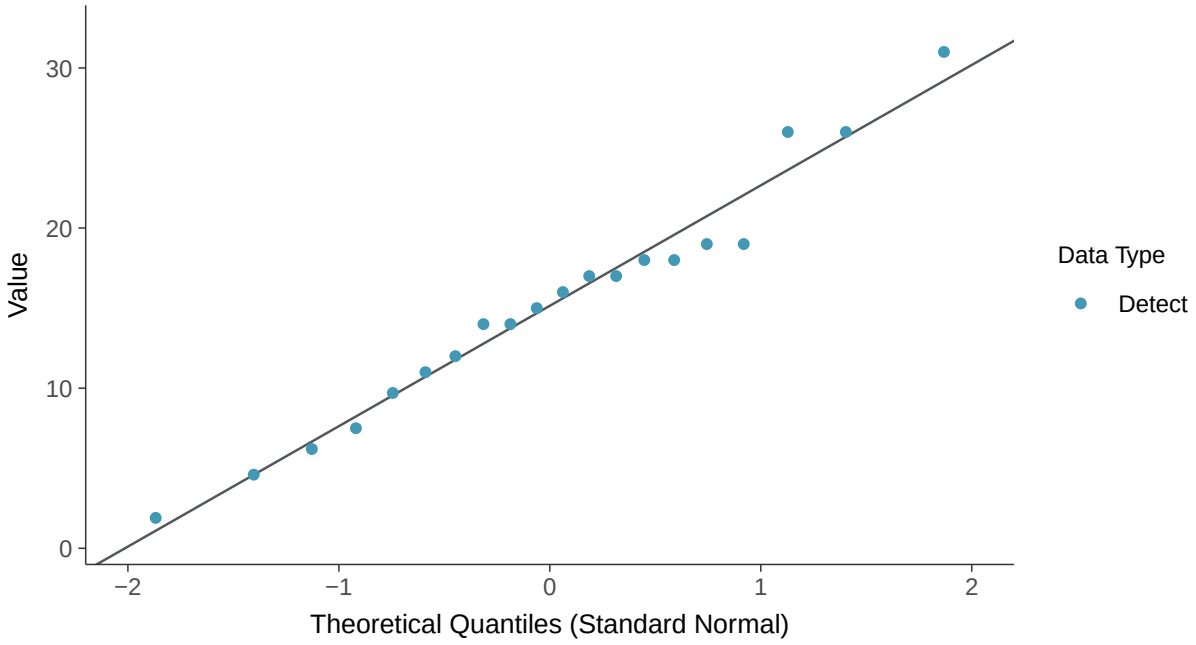
Boxplot by Season

Iron, MW-06 (mg/L)



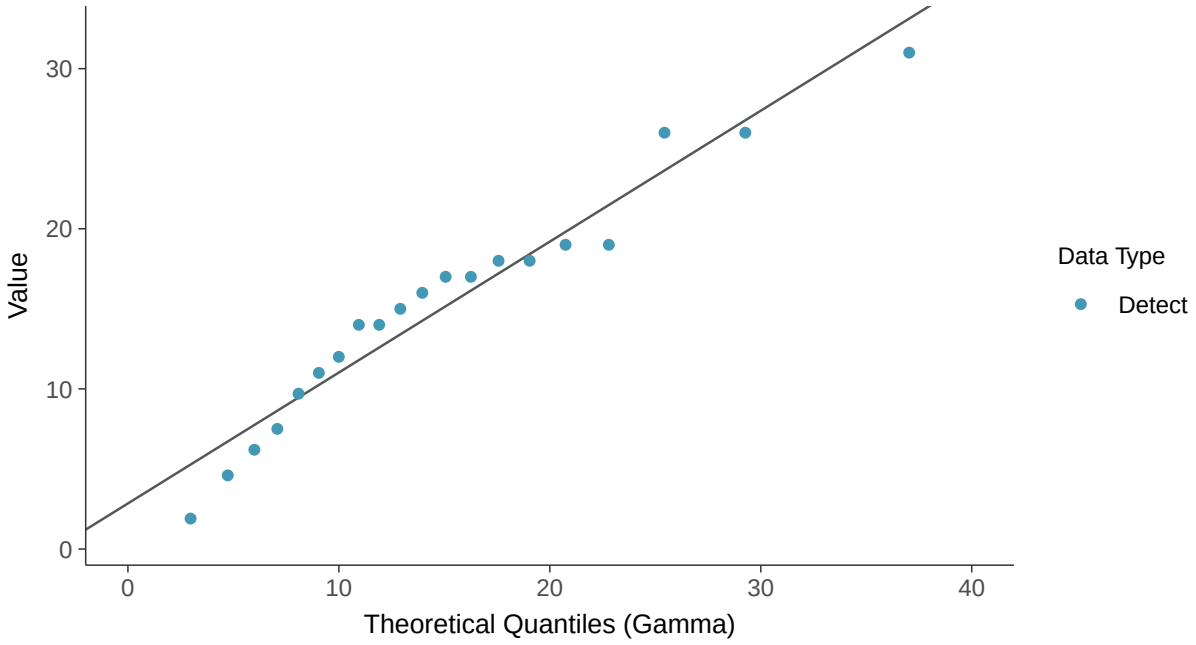
Normal Q-Q plot

Iron, MW-06 (mg/L)



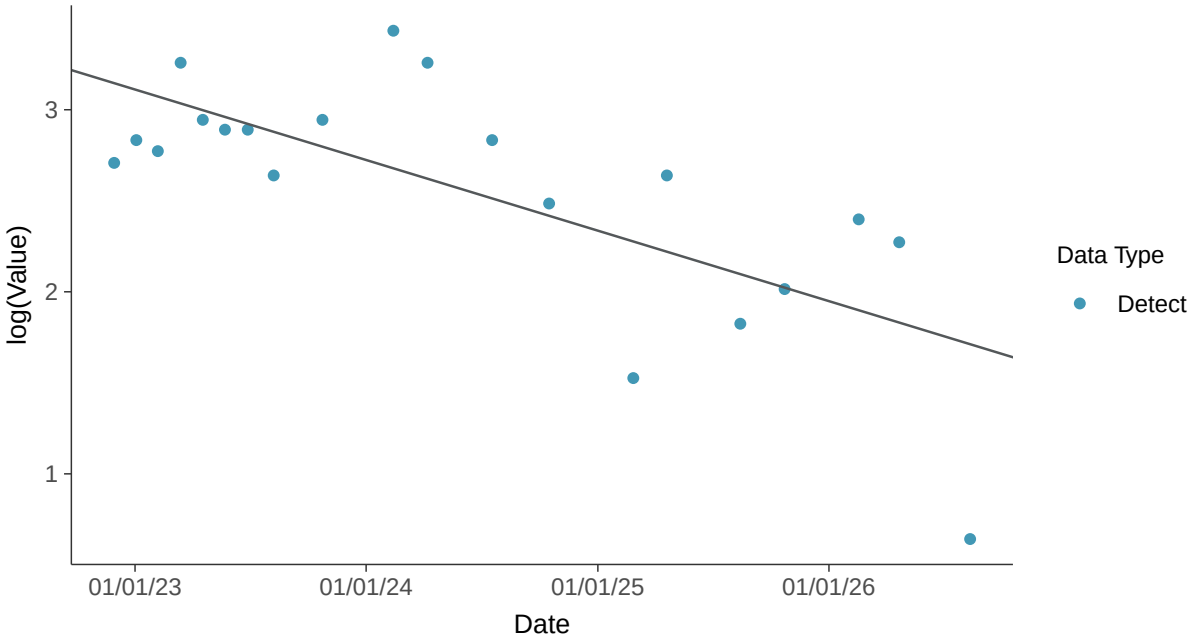
Gamma Q-Q plot

Iron, MW-06 (mg/L)



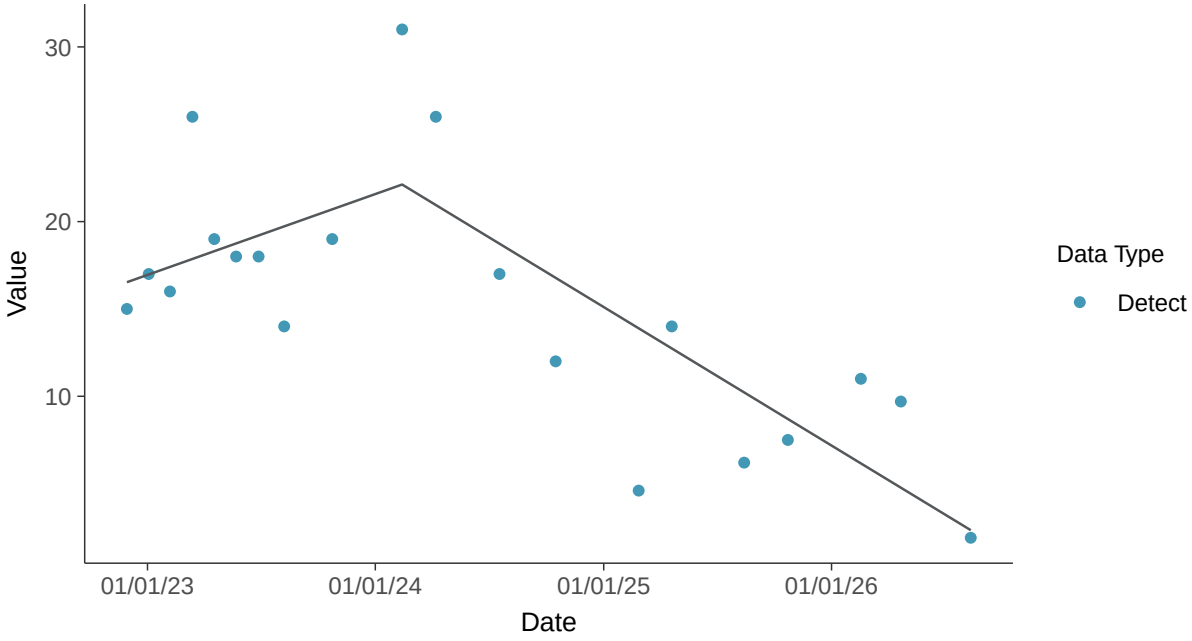
Trend Regression: Lognormal MLE

Iron, MW-06 (mg/L)



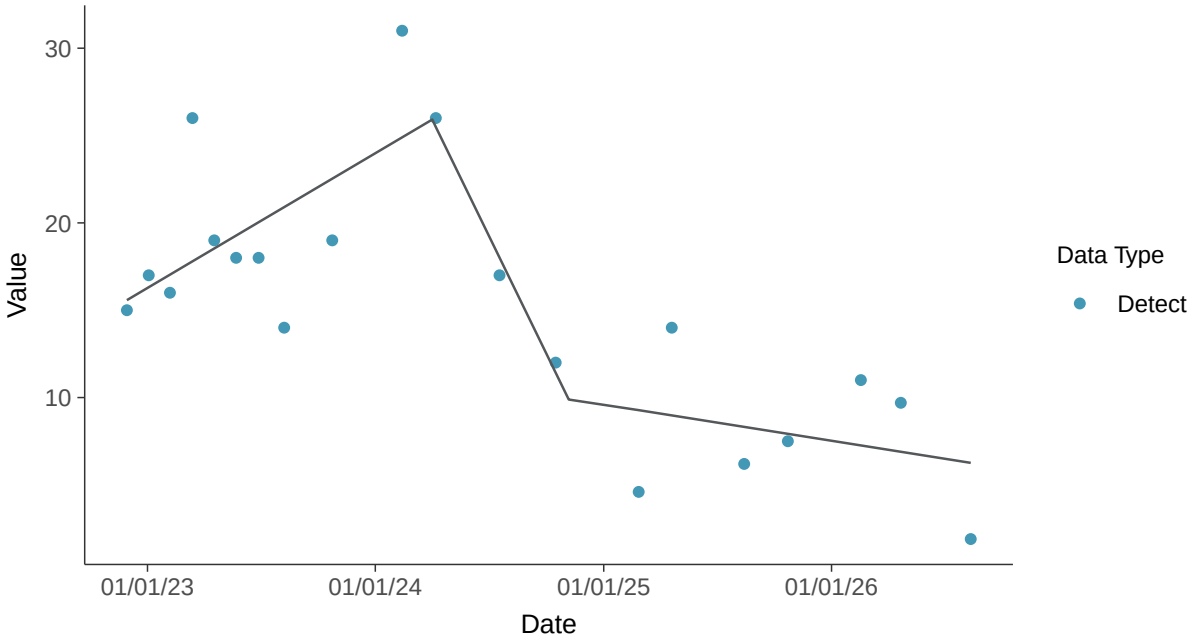
Trend Regression: Piecewise Linear-Linear

Iron, MW-06 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Iron, MW-06 (mg/L)

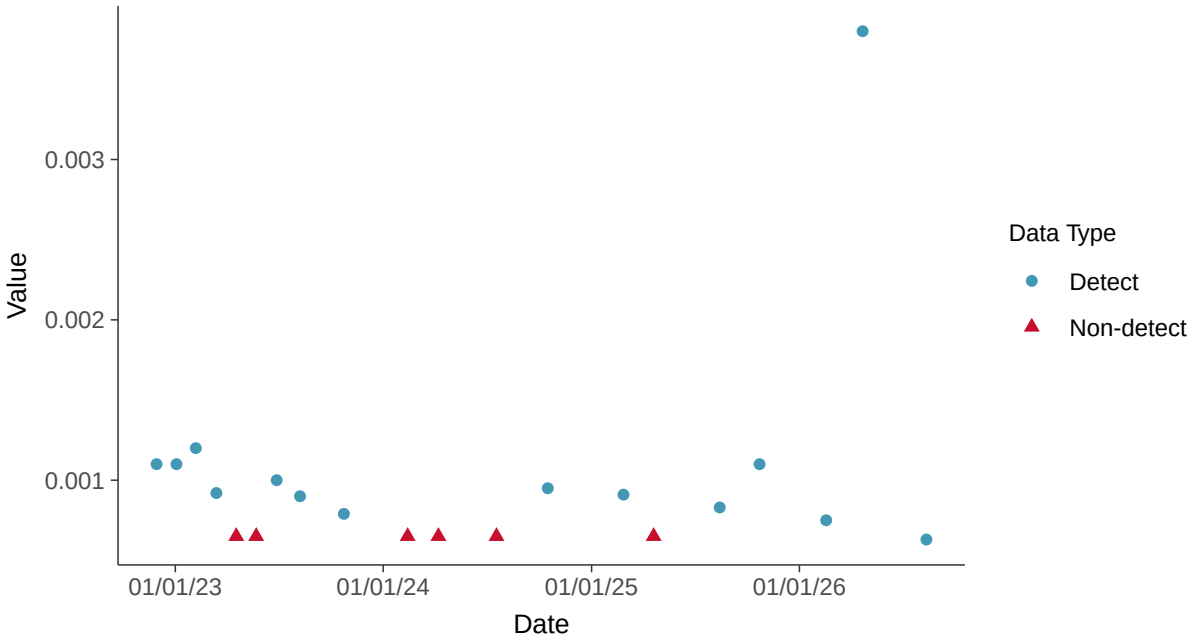


Part 115: Nickel, MW-06

ID: 16_1_5_119

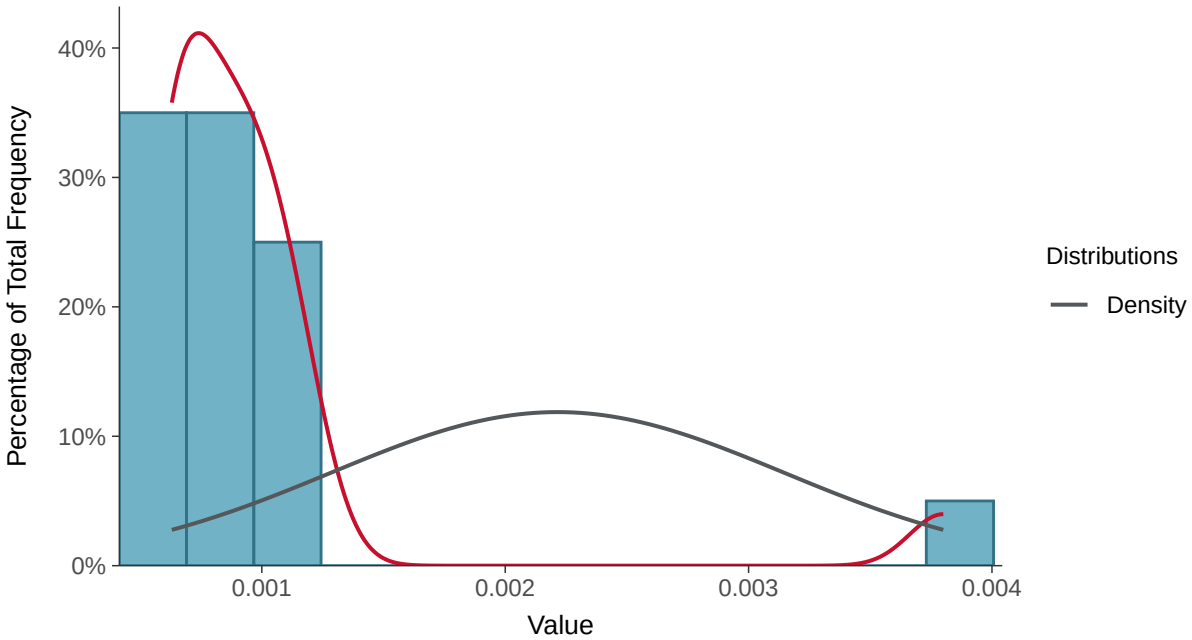
Scatter Plot

Nickel, MW-06 (mg/L)



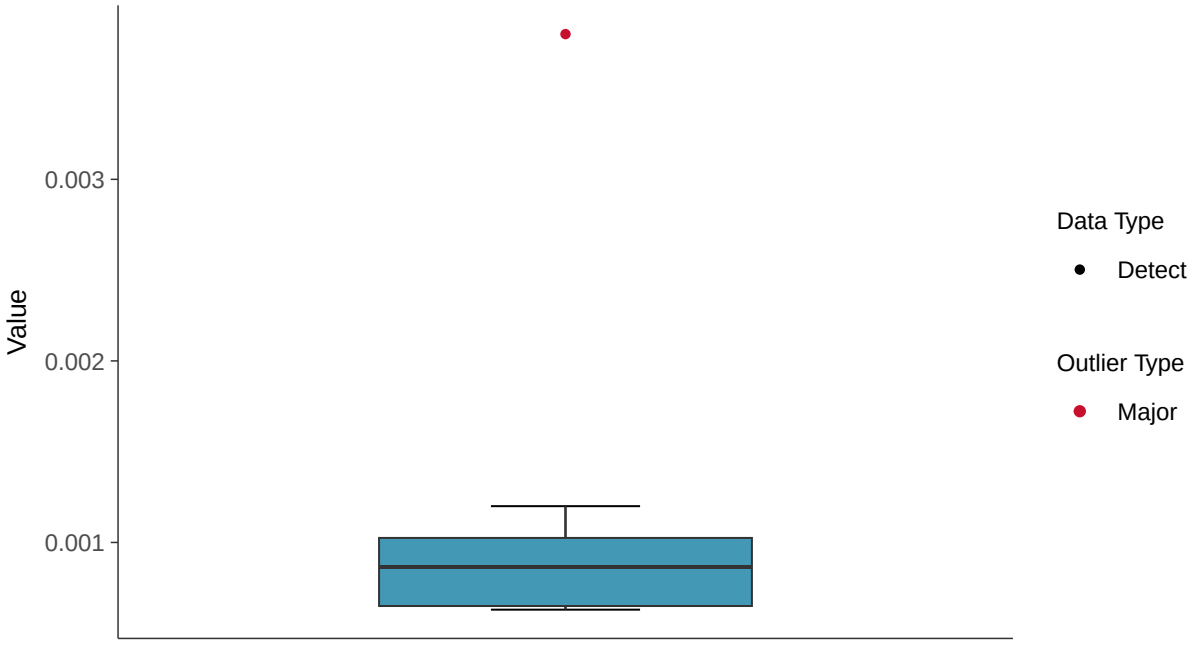
Histogram

Nickel, MW-06 (mg/L)



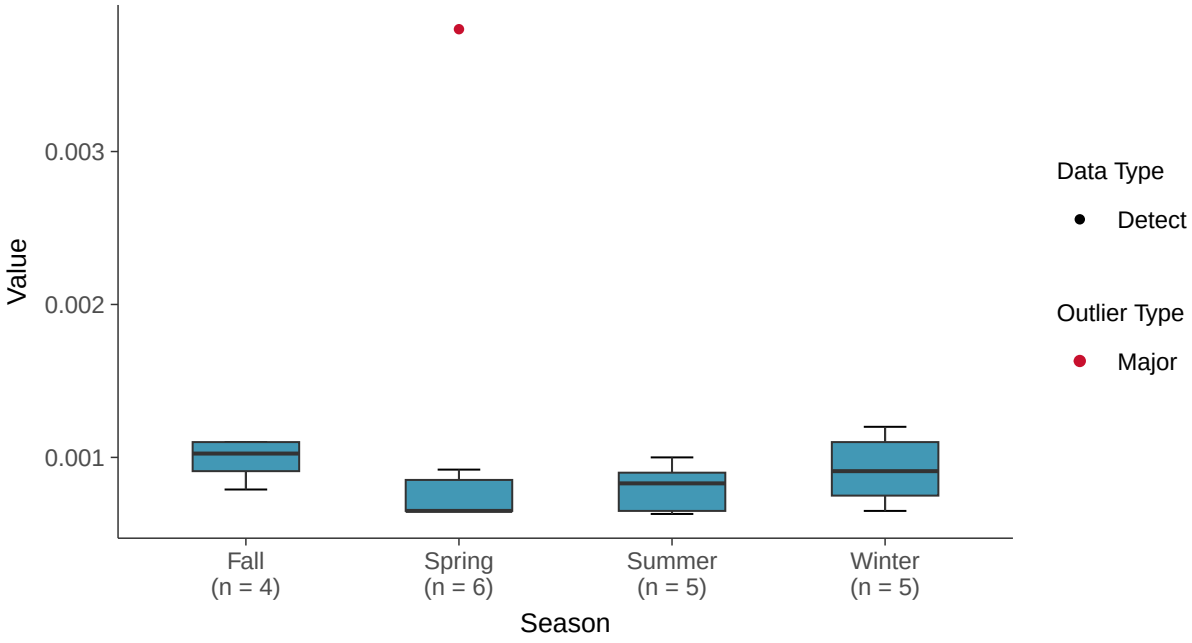
Boxplot

Nickel, MW-06 (mg/L)



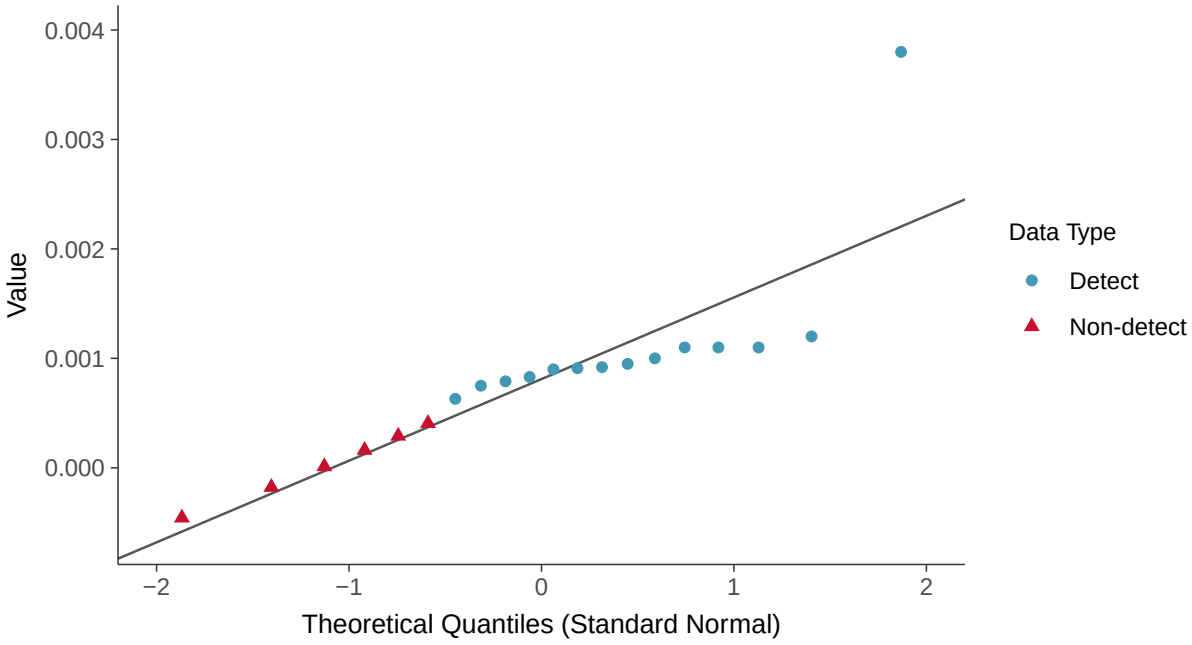
Boxplot by Season

Nickel, MW-06 (mg/L)



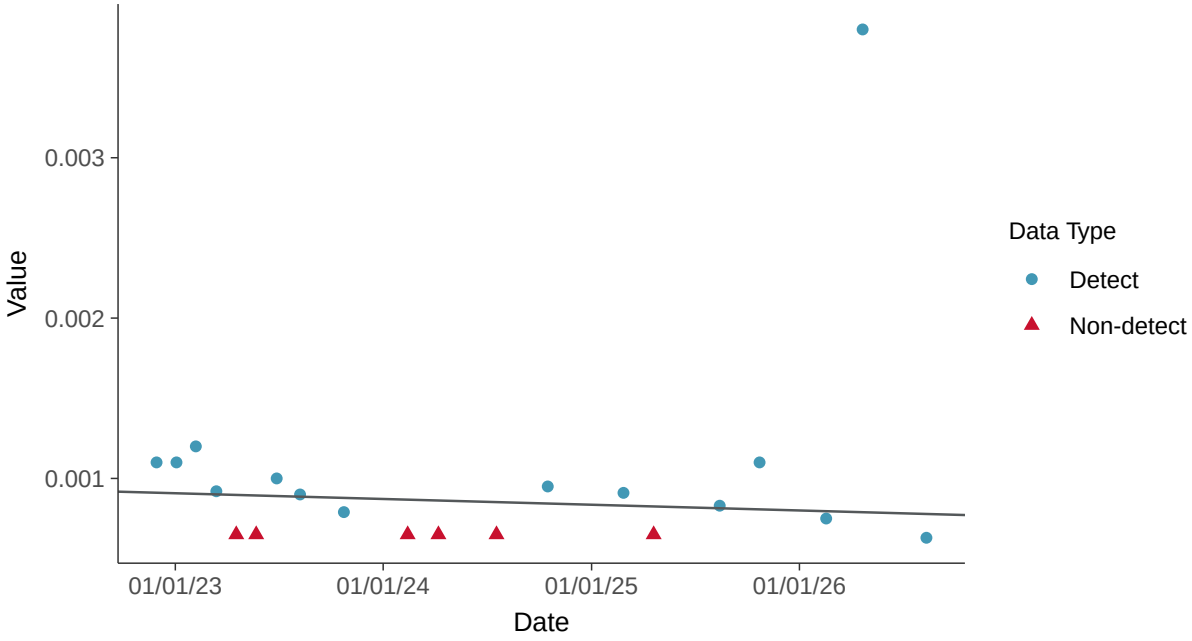
Normal Q-Q plot using ROS Imputed Estimates

Nickel, MW-06 (mg/L)



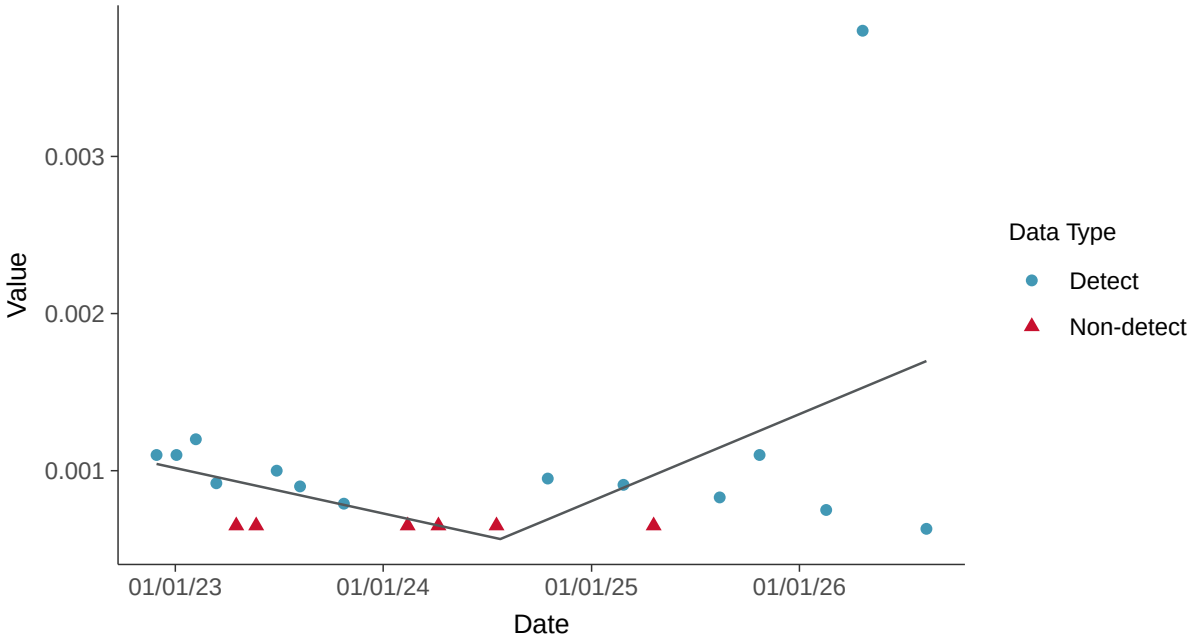
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Nickel, MW-06 (mg/L)



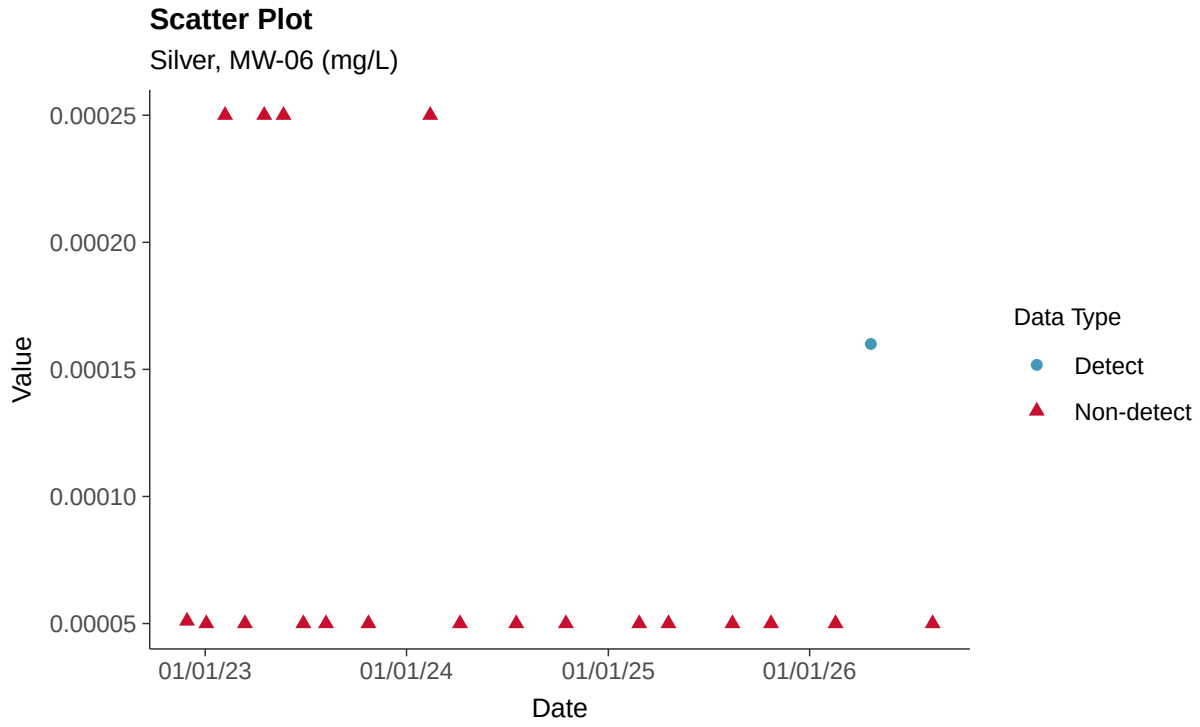
Trend Regression: Piecewise Linear-Linear

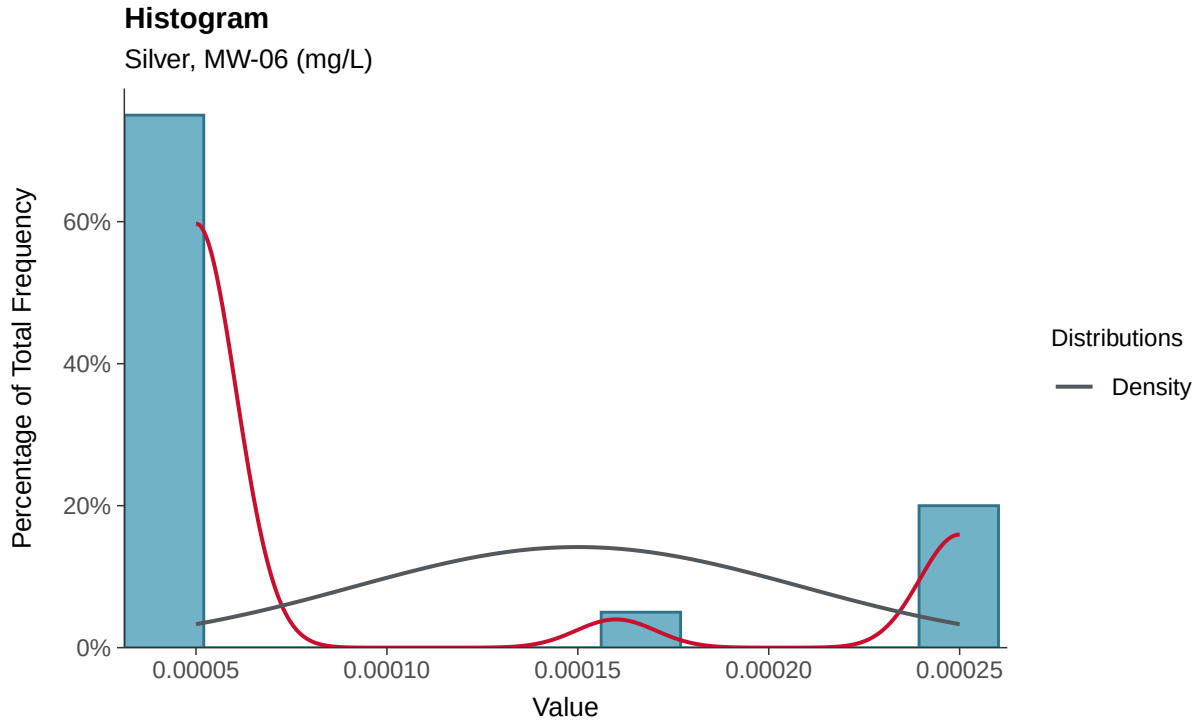
Nickel, MW-06 (mg/L)



Part 115: Silver, MW-06

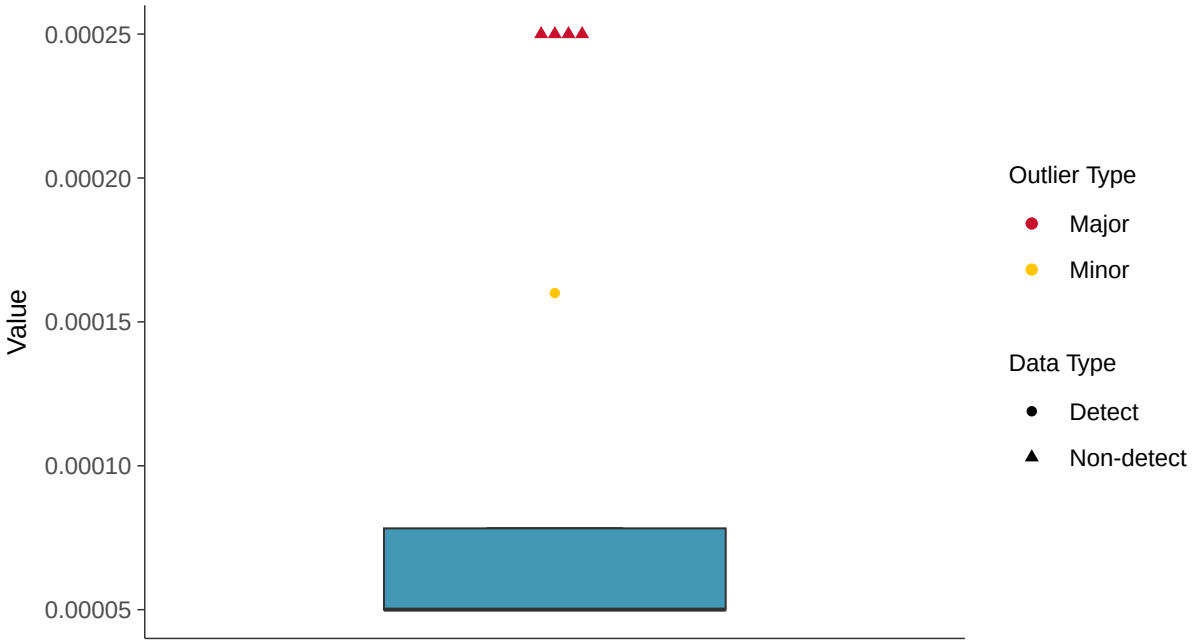
ID: 16_1_5_123





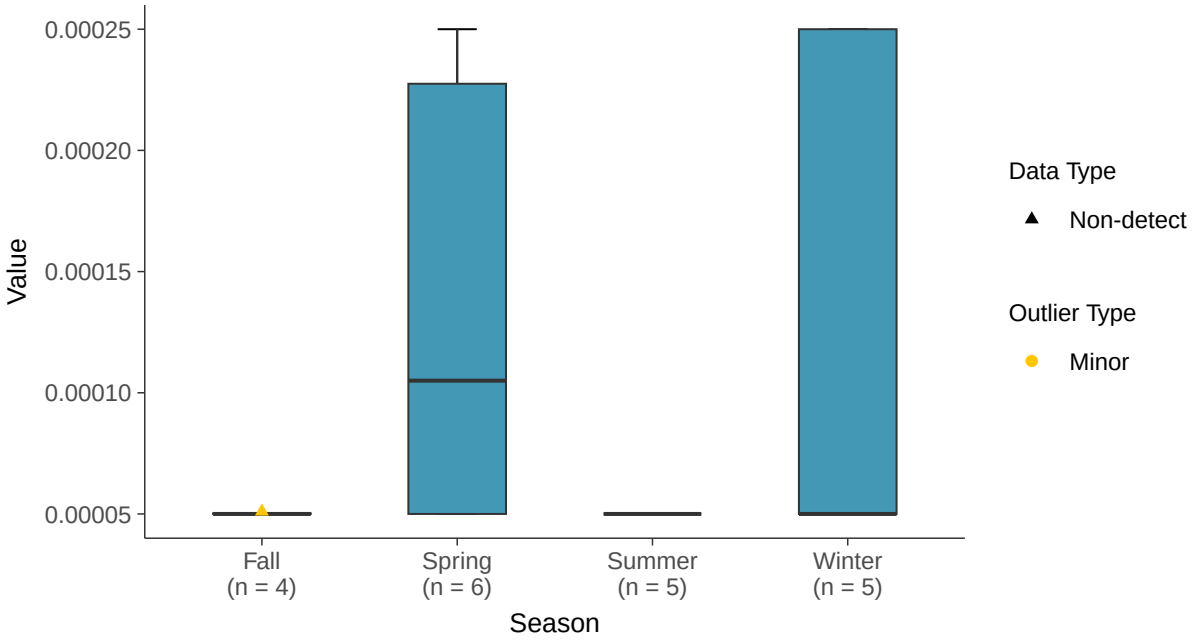
Boxplot

Silver, MW-06 (mg/L)



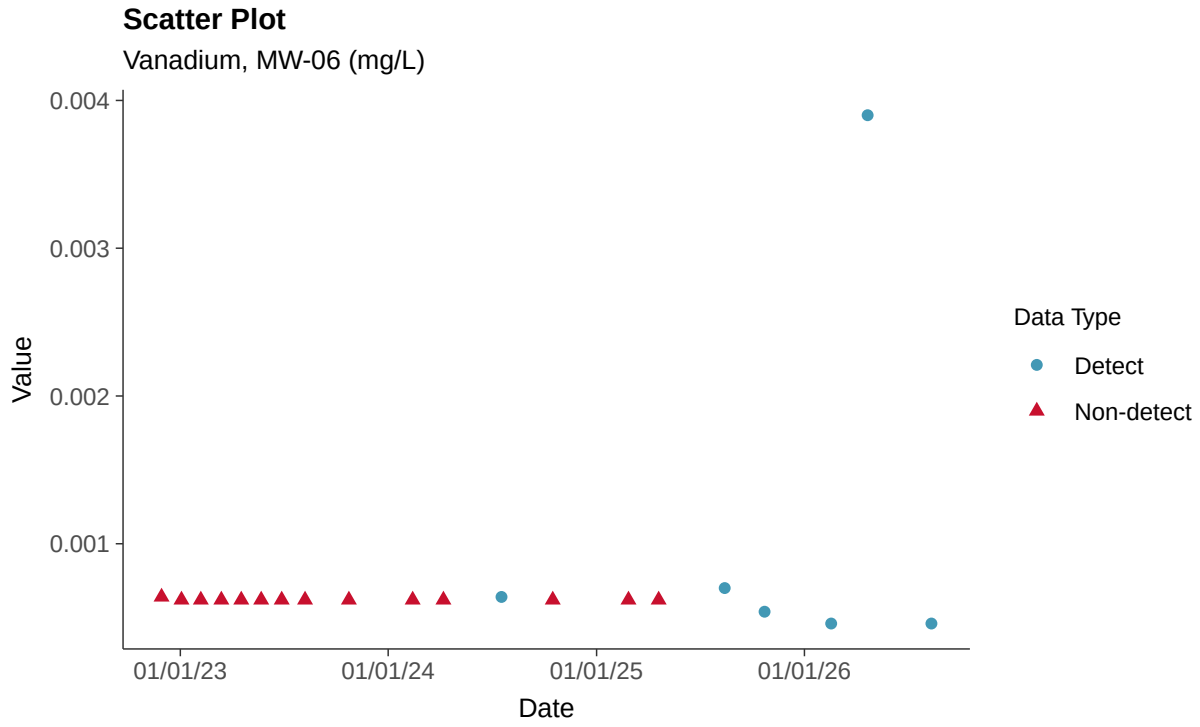
Boxplot by Season

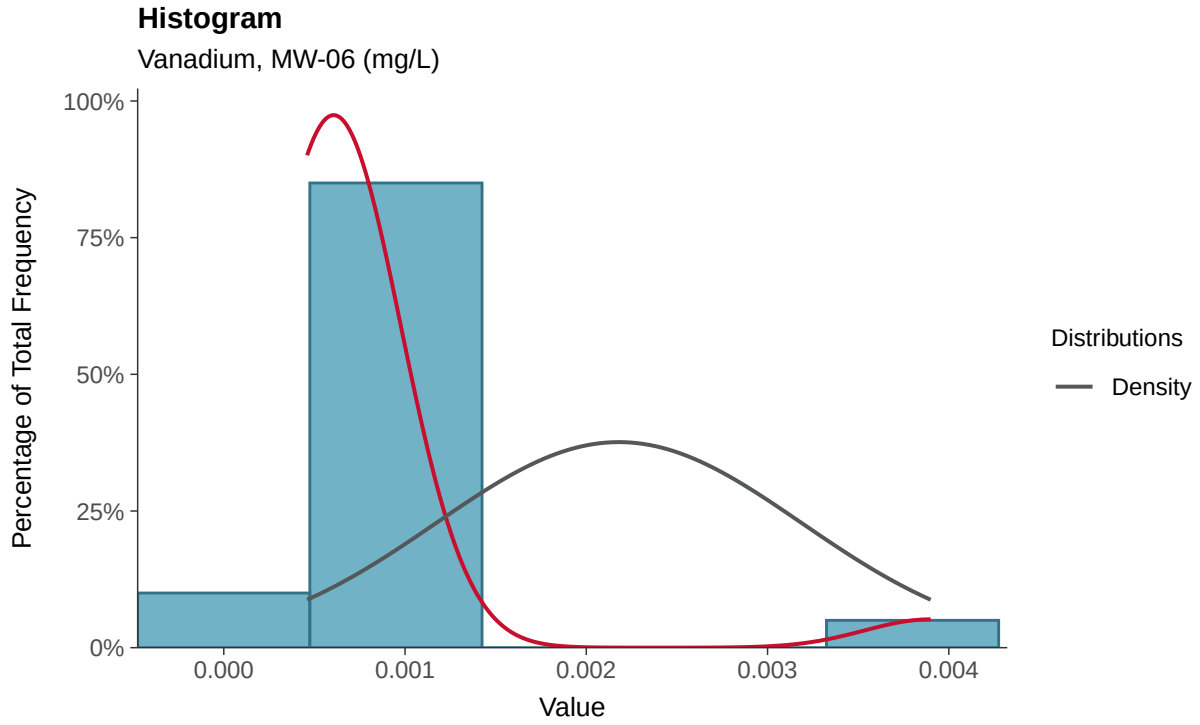
Silver, MW-06 (mg/L)



Part 115: Vanadium, MW-06

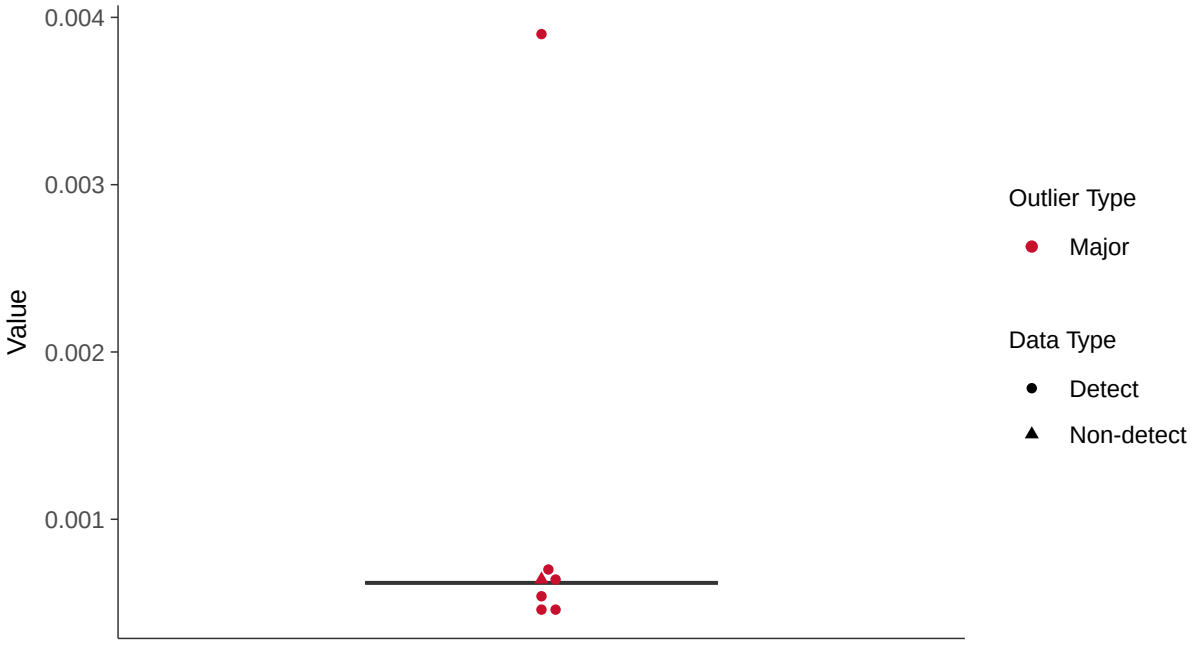
ID: 16_1_5_128





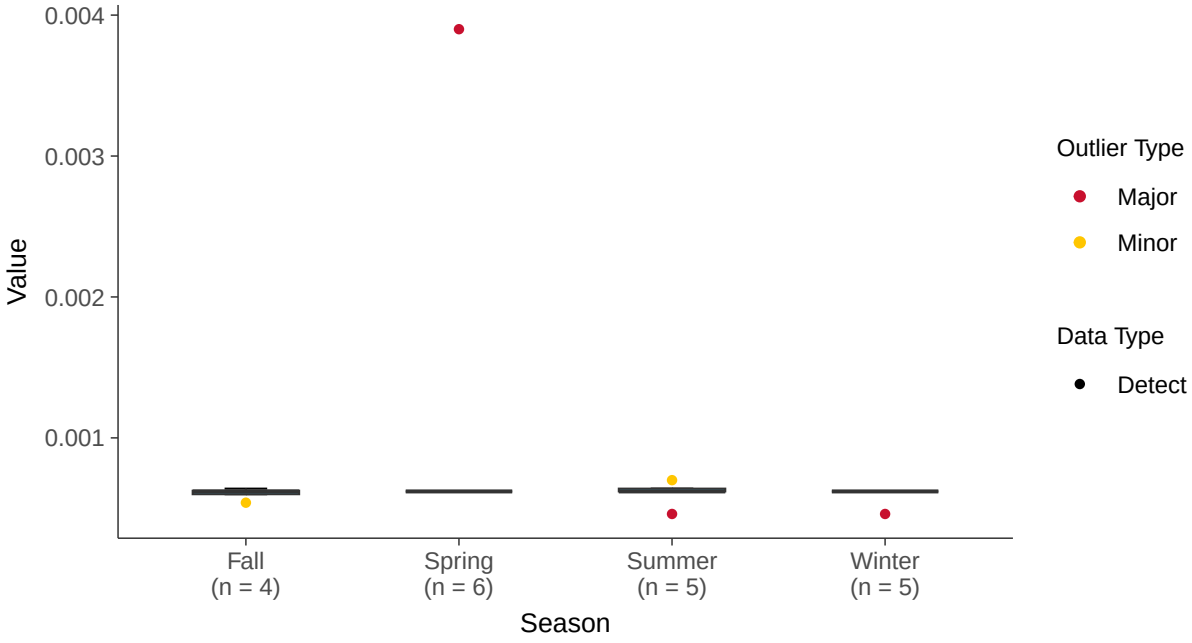
Boxplot

Vanadium, MW-06 (mg/L)



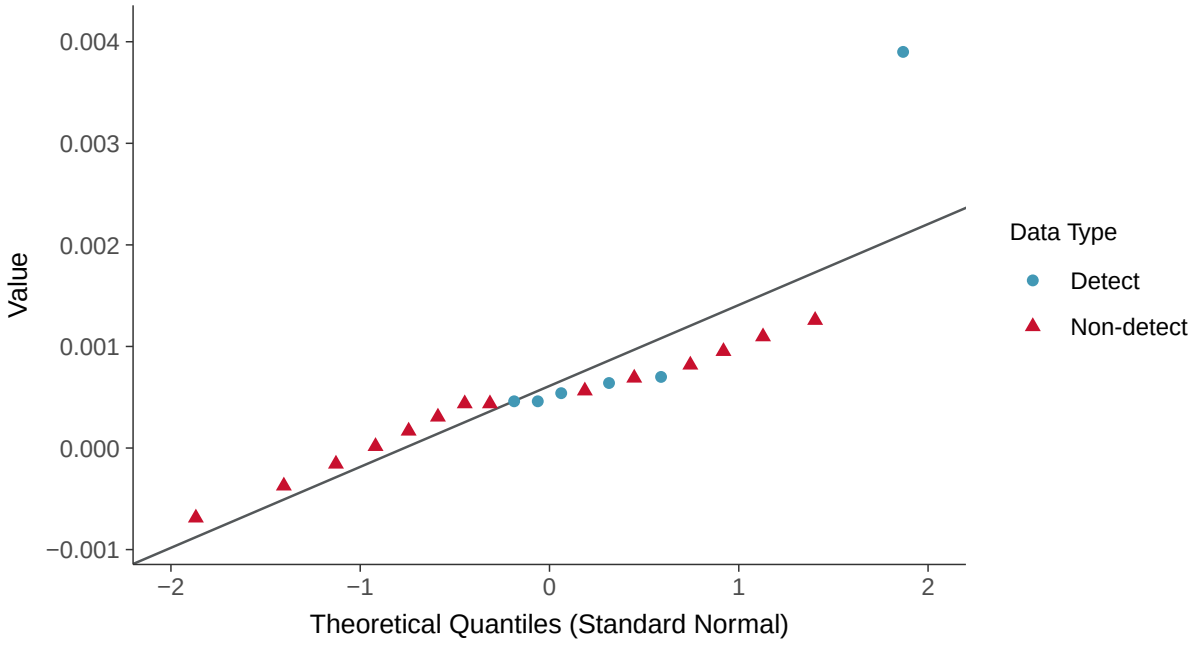
Boxplot by Season

Vanadium, MW-06 (mg/L)



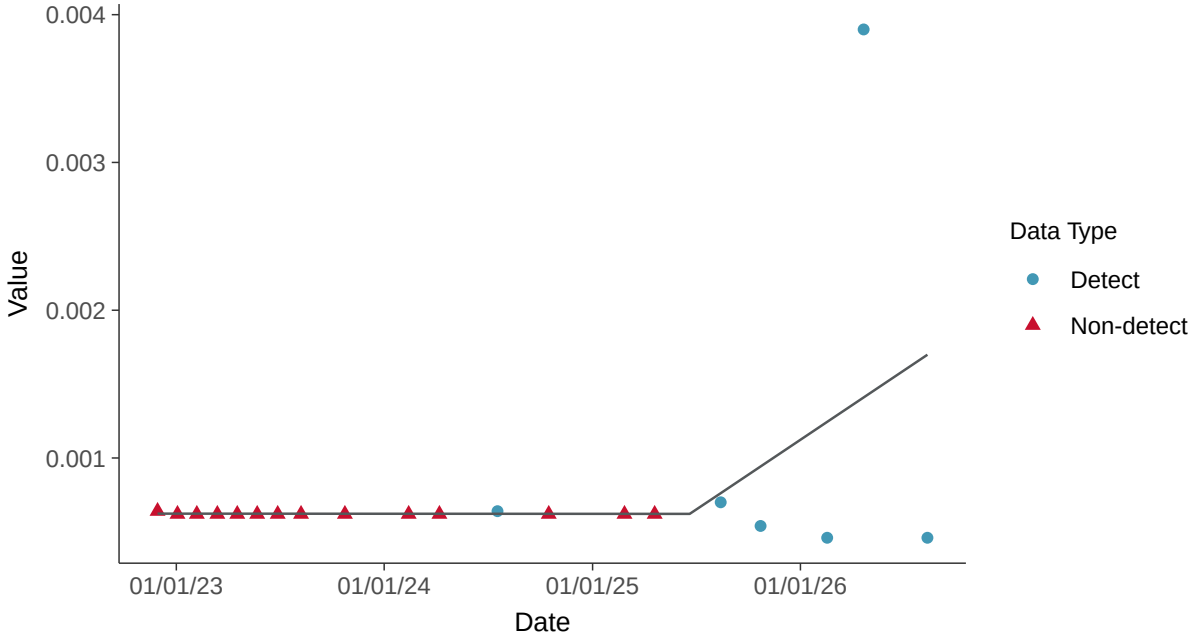
Normal Q-Q plot using ROS Imputed Estimates

Vanadium, MW-06 (mg/L)



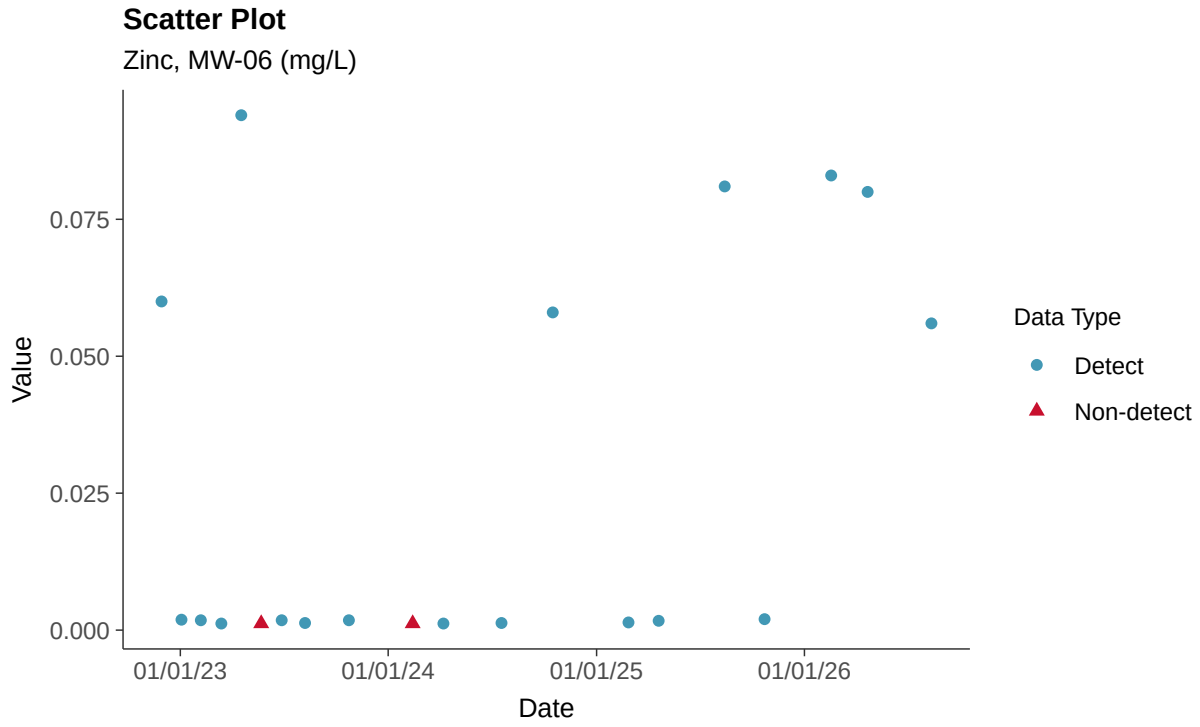
Trend Regression: Piecewise Linear-Linear

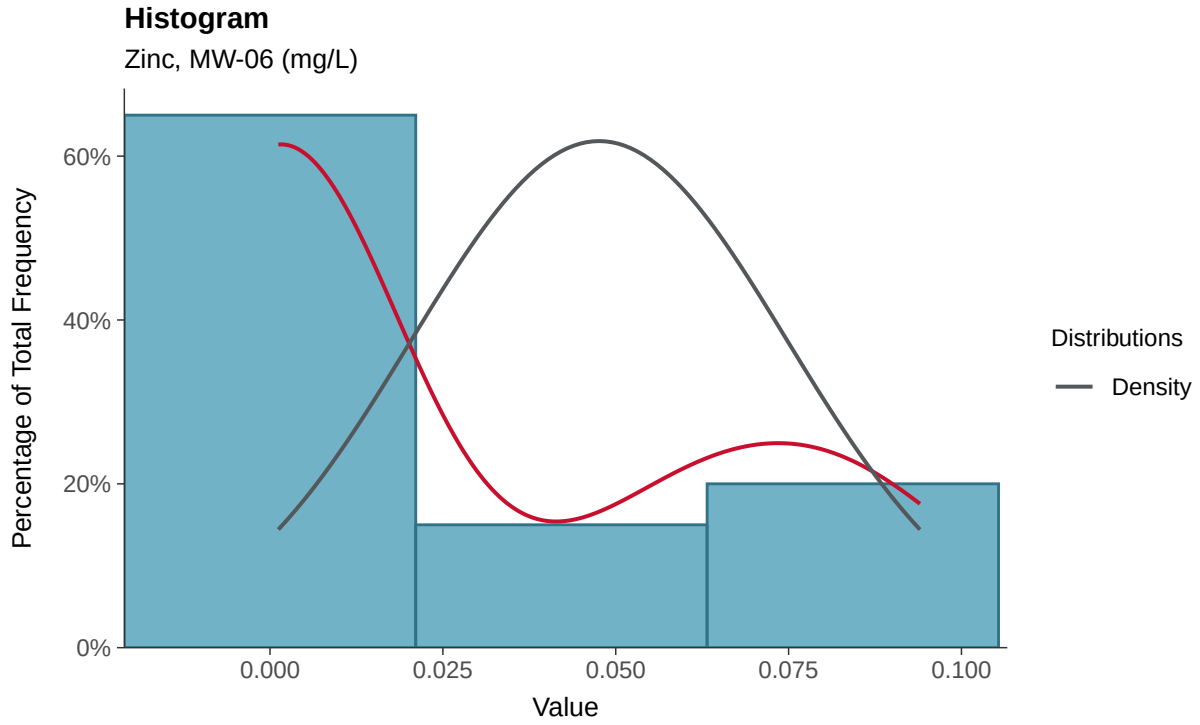
Vanadium, MW-06 (mg/L)



Part 115: Zinc, MW-06

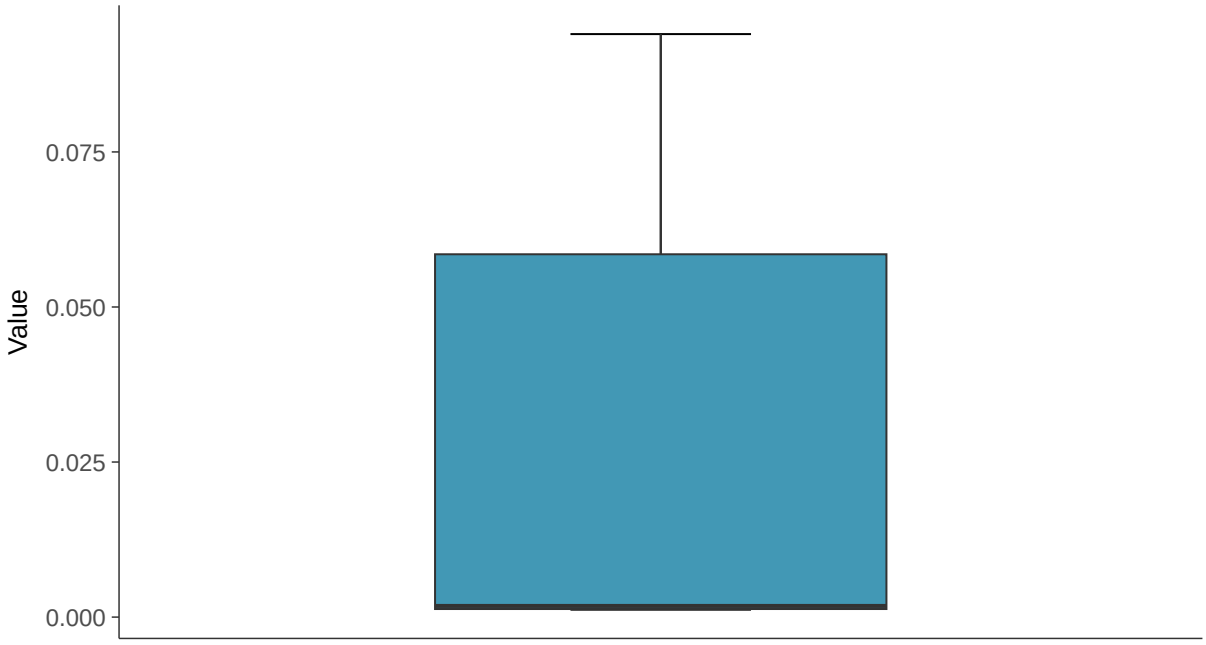
ID: 16_1_5_129





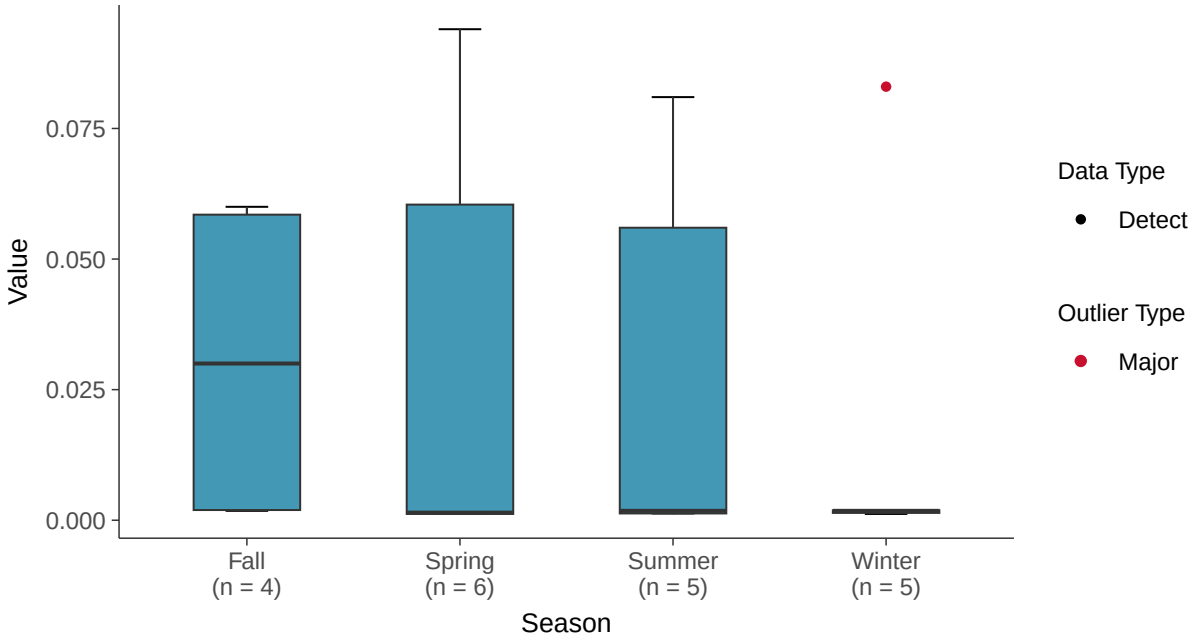
Boxplot

Zinc, MW-06 (mg/L)



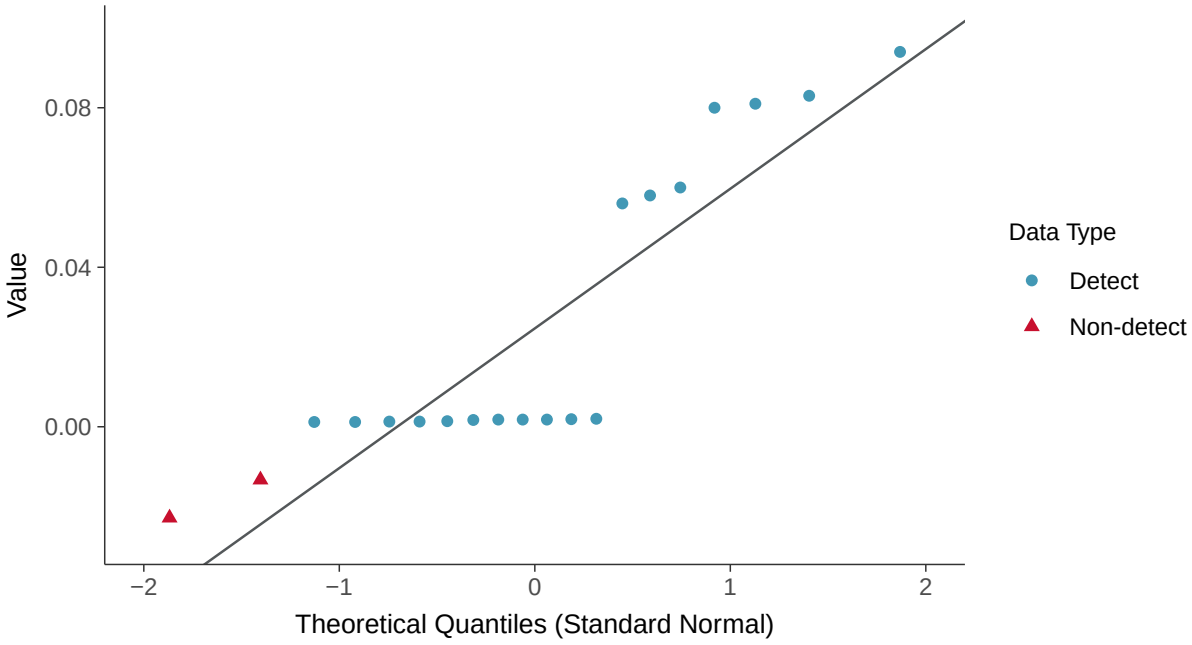
Boxplot by Season

Zinc, MW-06 (mg/L)



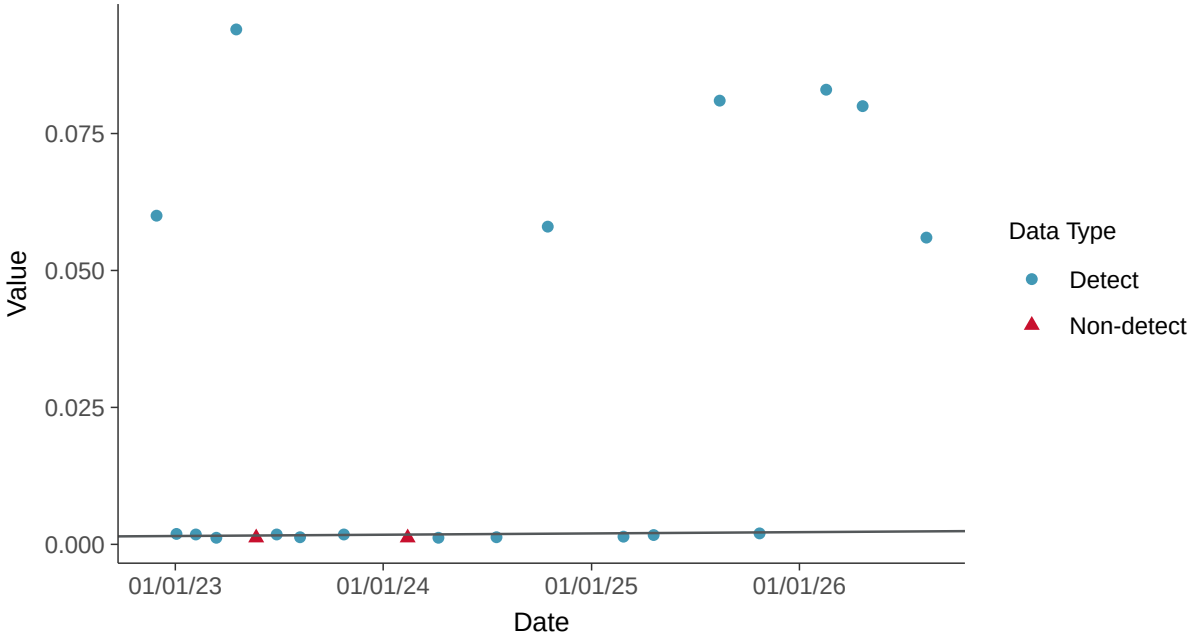
Normal Q-Q plot using ROS Imputed Estimates

Zinc, MW-06 (mg/L)



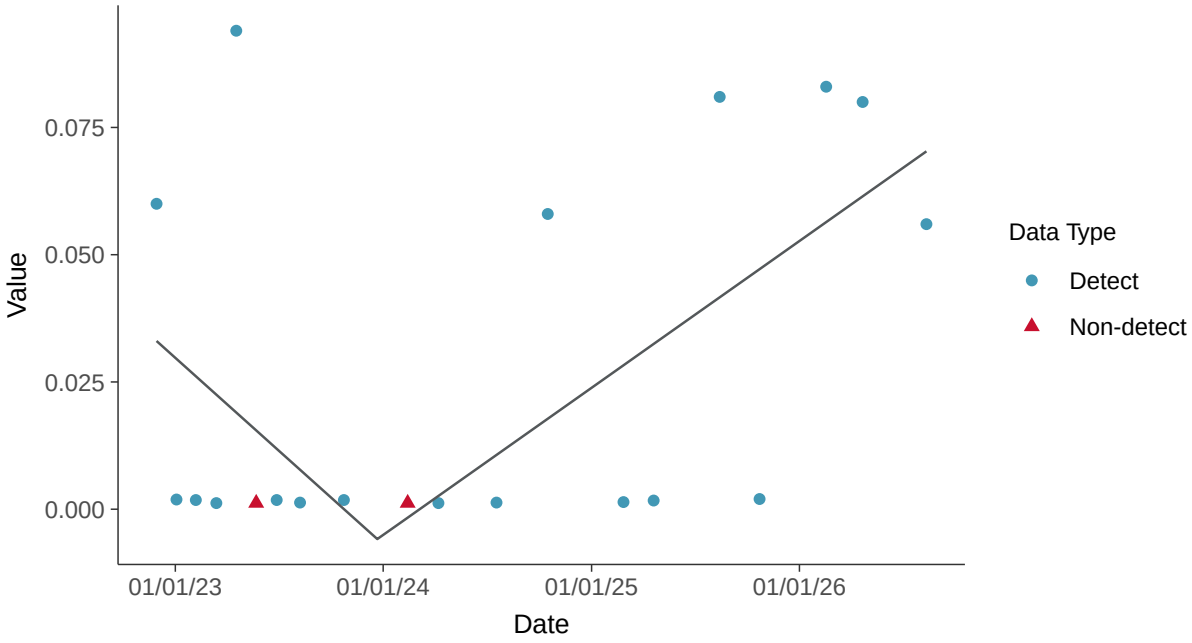
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Zinc, MW-06 (mg/L)



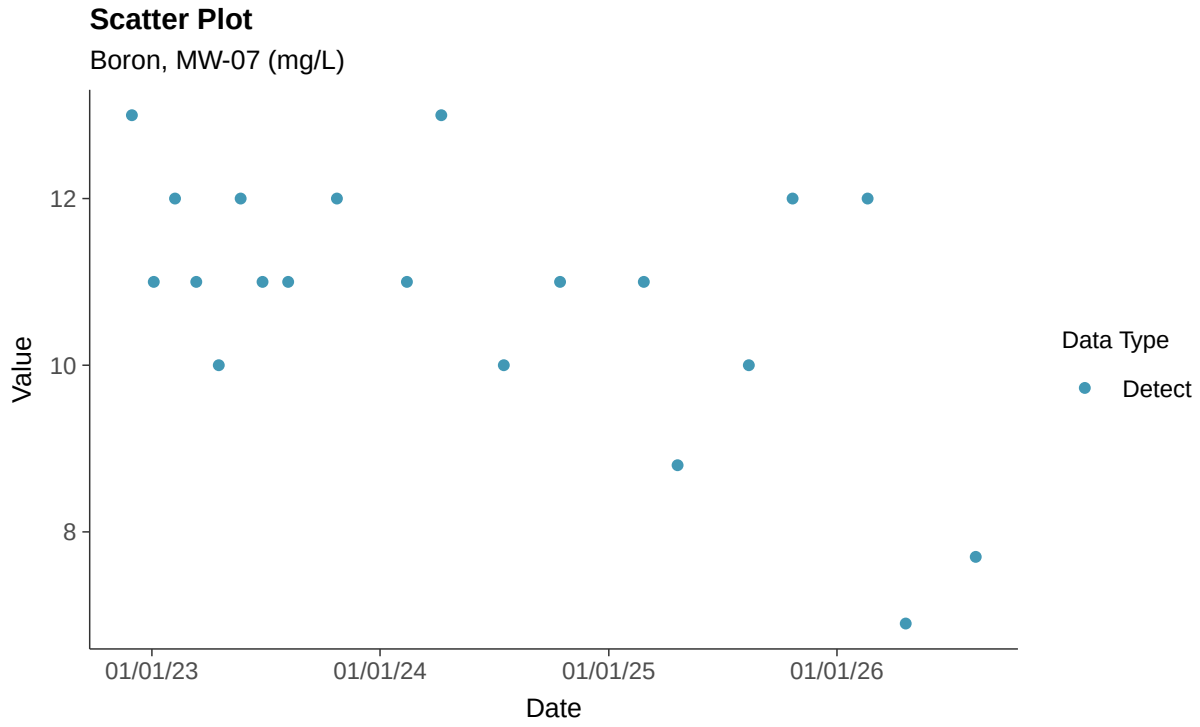
Trend Regression: Piecewise Linear-Linear

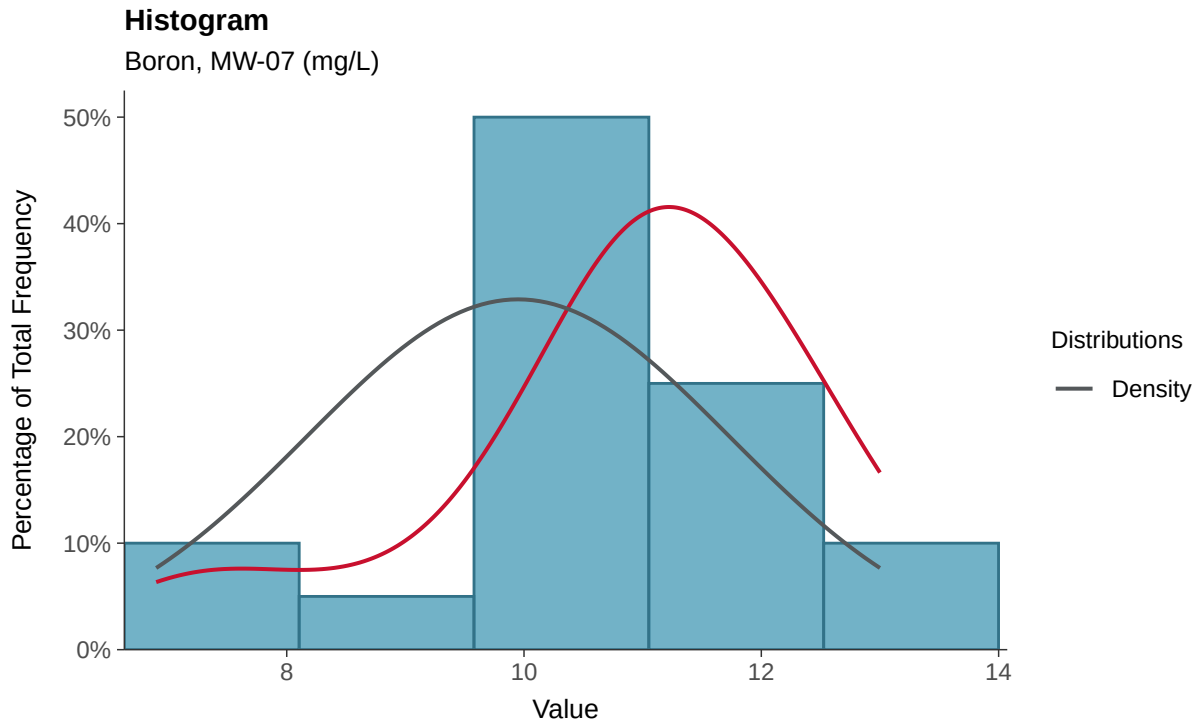
Zinc, MW-06 (mg/L)



Appendix III: Boron, MW-07

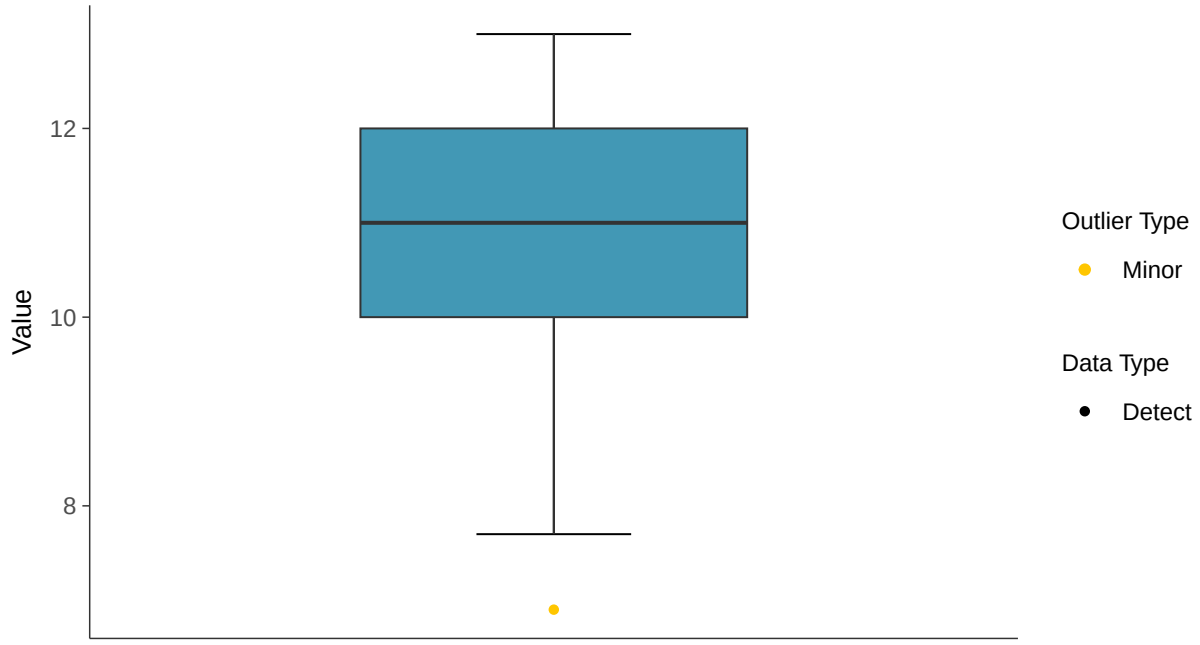
ID: 17_1_3_105





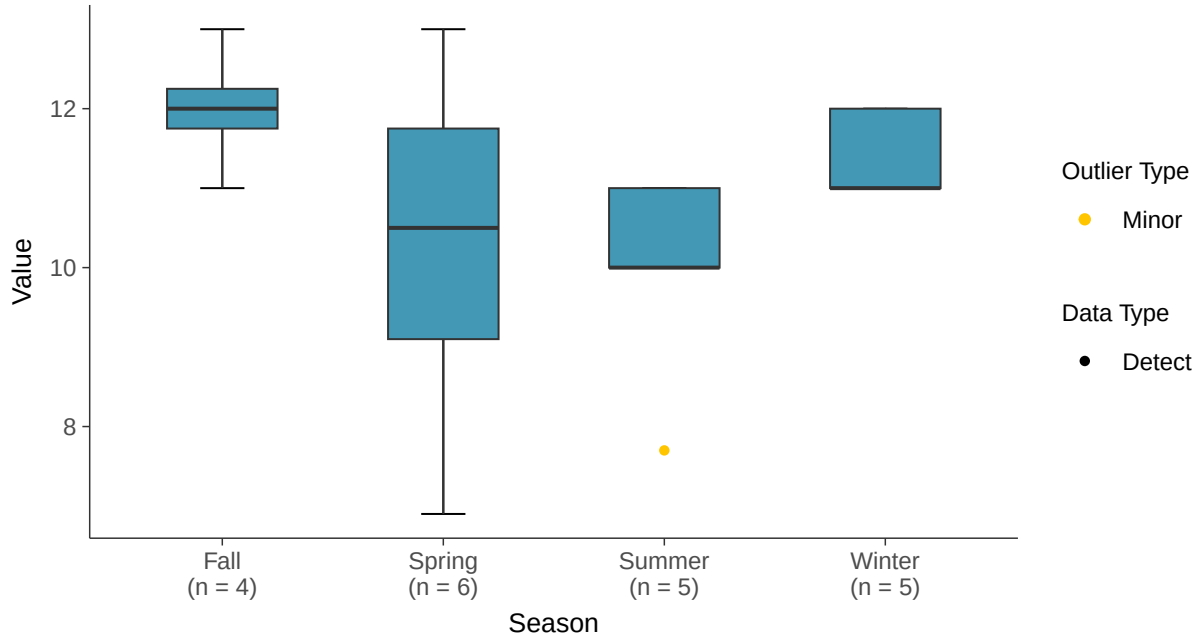
Boxplot

Boron, MW-07 (mg/L)



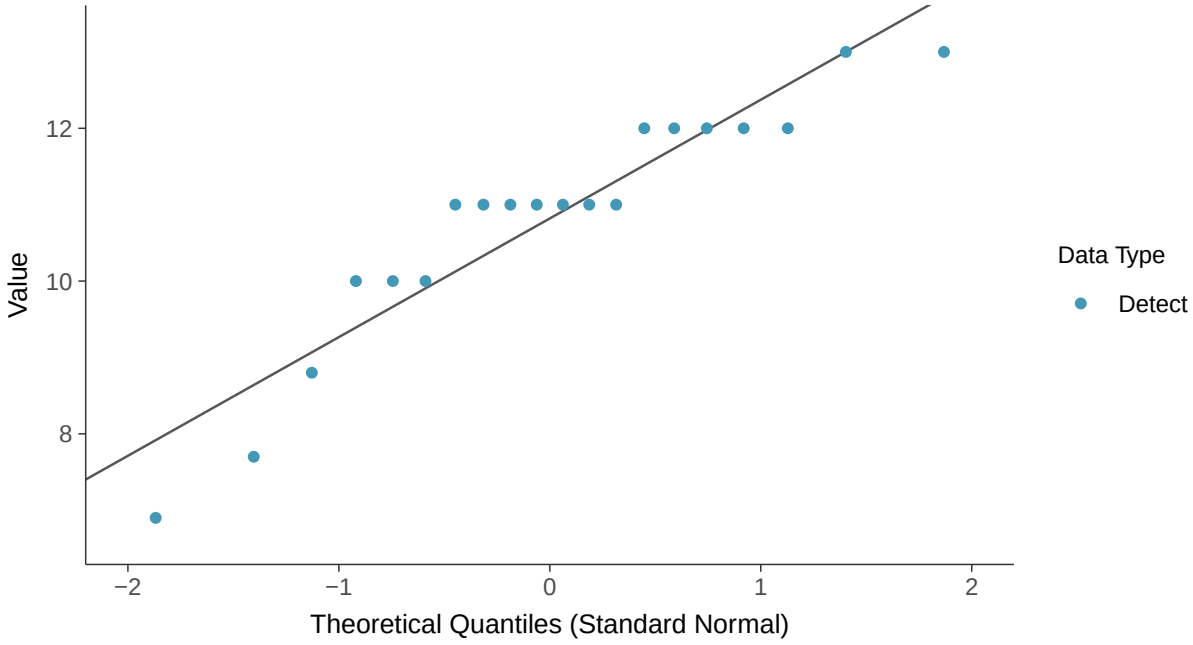
Boxplot by Season

Boron, MW-07 (mg/L)



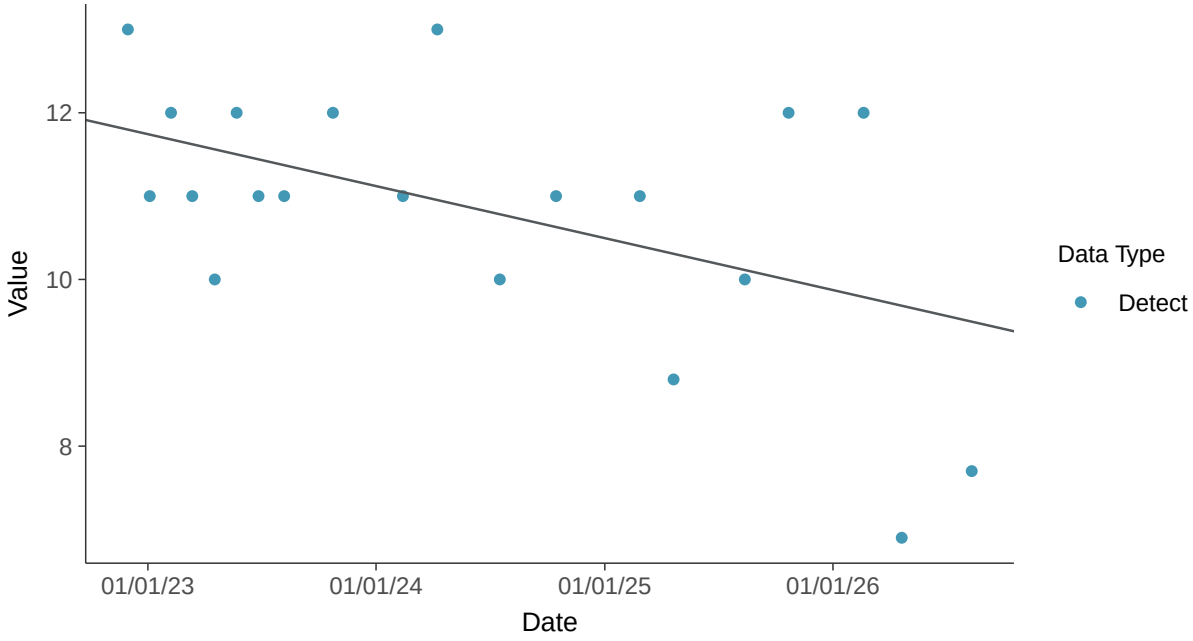
Normal Q-Q plot

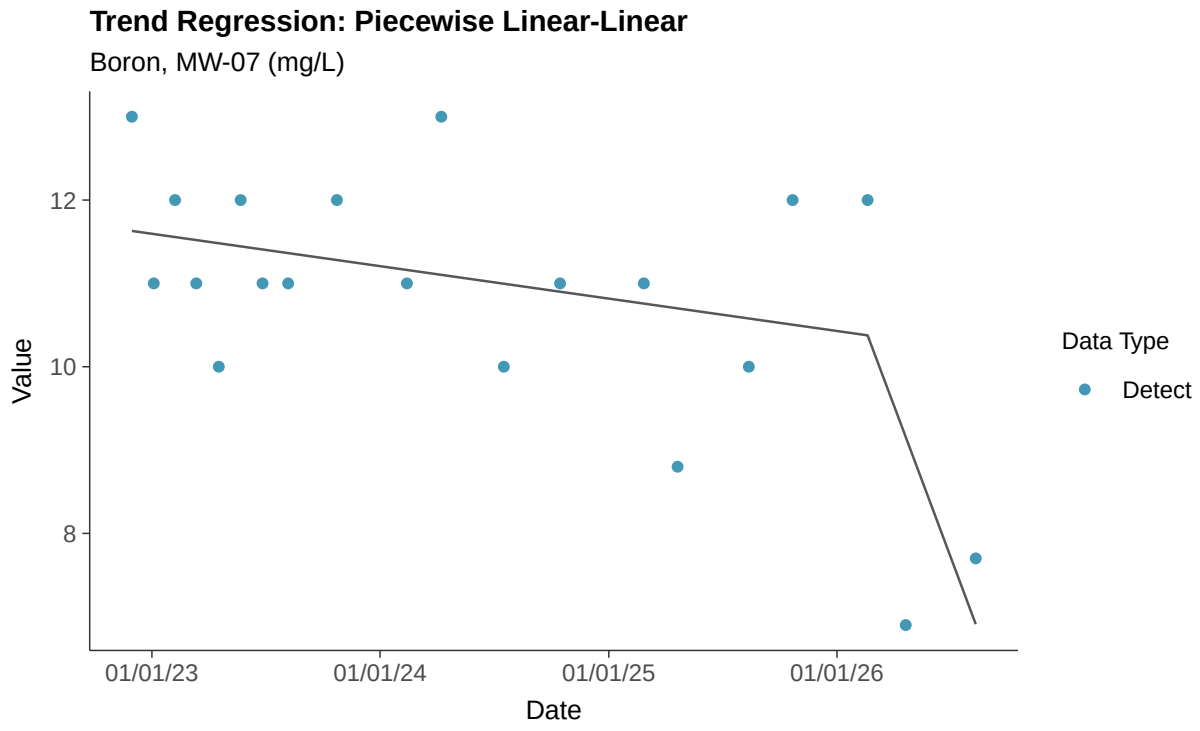
Boron, MW-07 (mg/L)



Trend Regression: Mann-Kendall/Theil-Sen Estimate

Boron, MW-07 (mg/L)



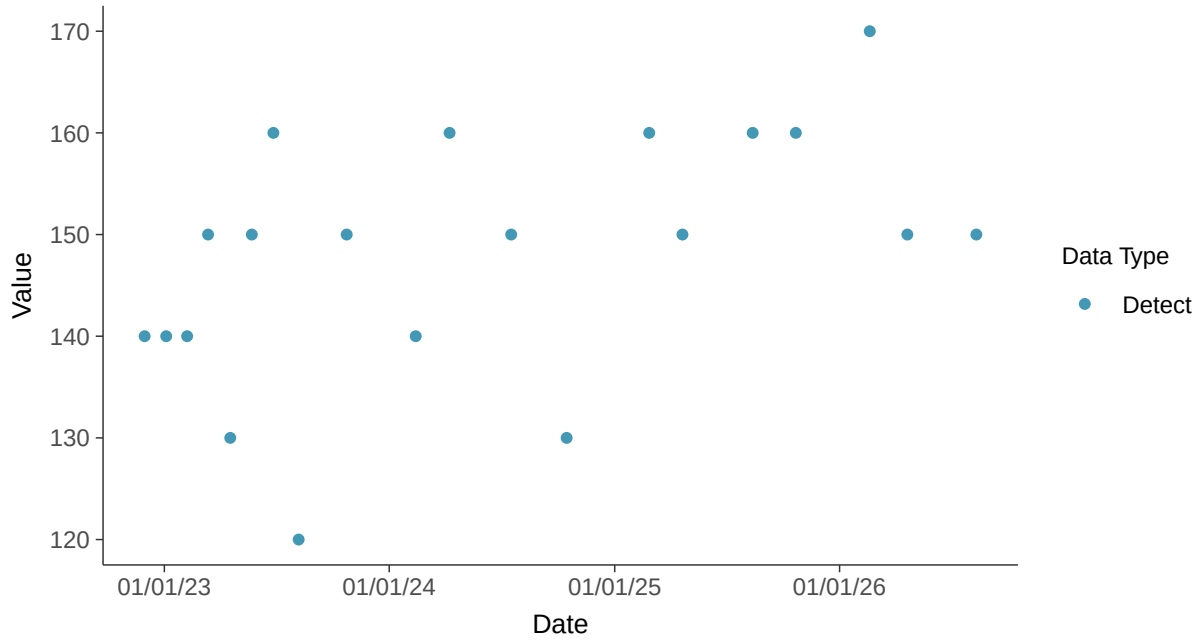

Trend Regression: Piecewise Linear-Linear
Boron, MW-07 (mg/L)
Value
12
10
8
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect

Appendix III: Calcium, MW-07

ID: 17_1_3_107

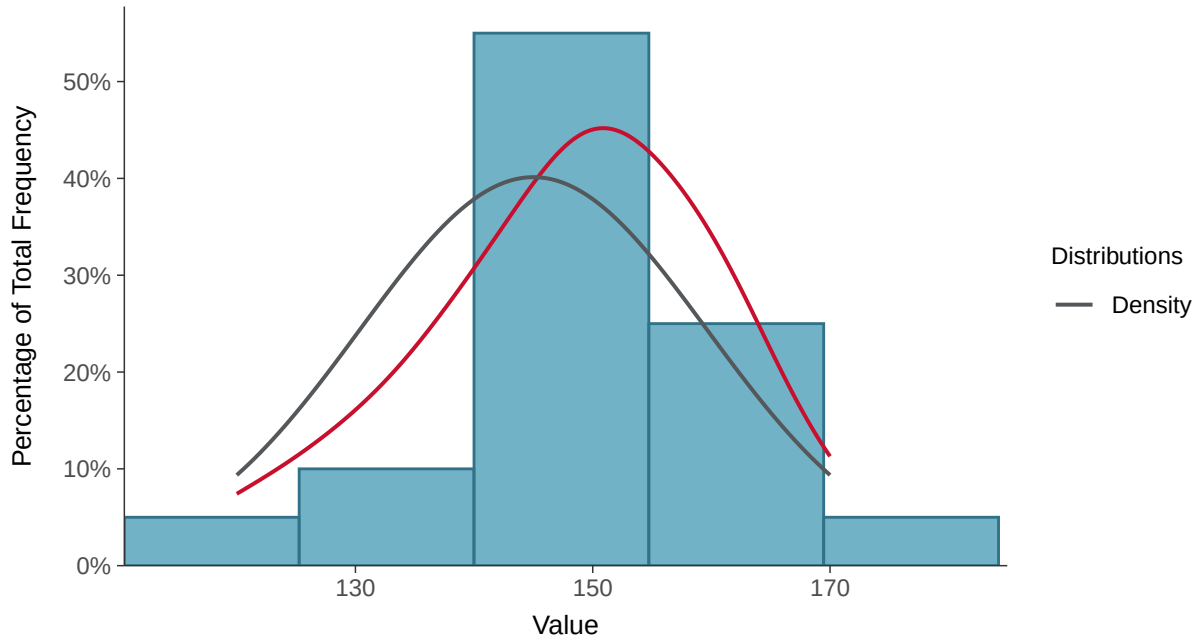
Scatter Plot

Calcium, MW-07 (mg/L)



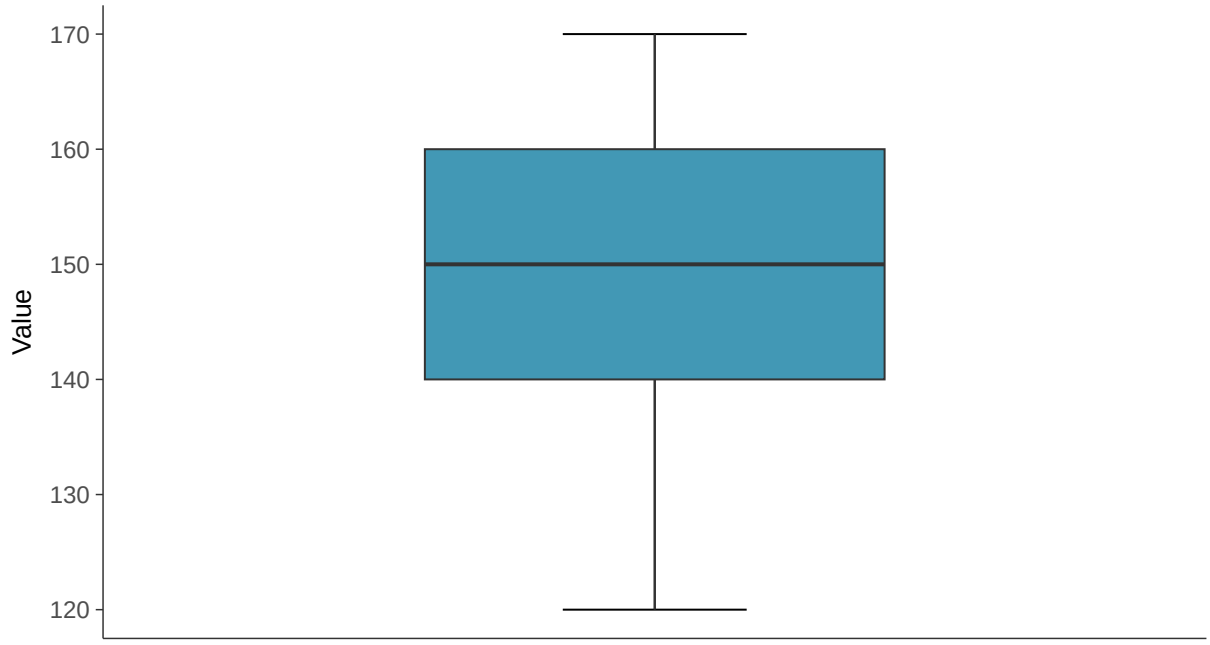
Histogram

Calcium, MW-07 (mg/L)



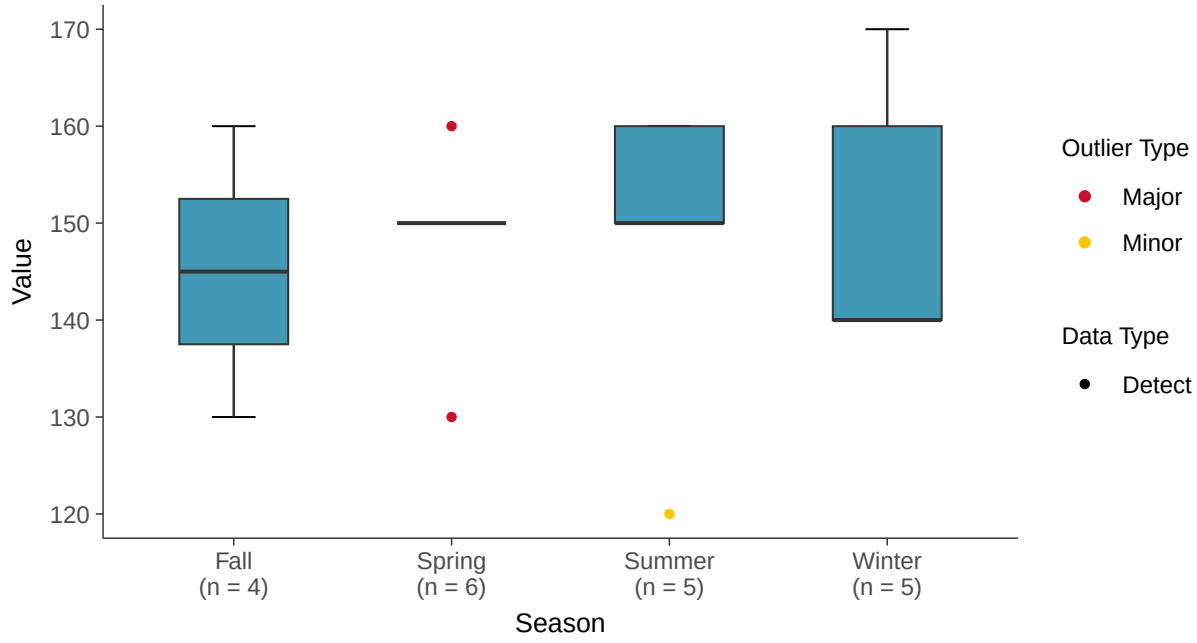
Boxplot

Calcium, MW-07 (mg/L)



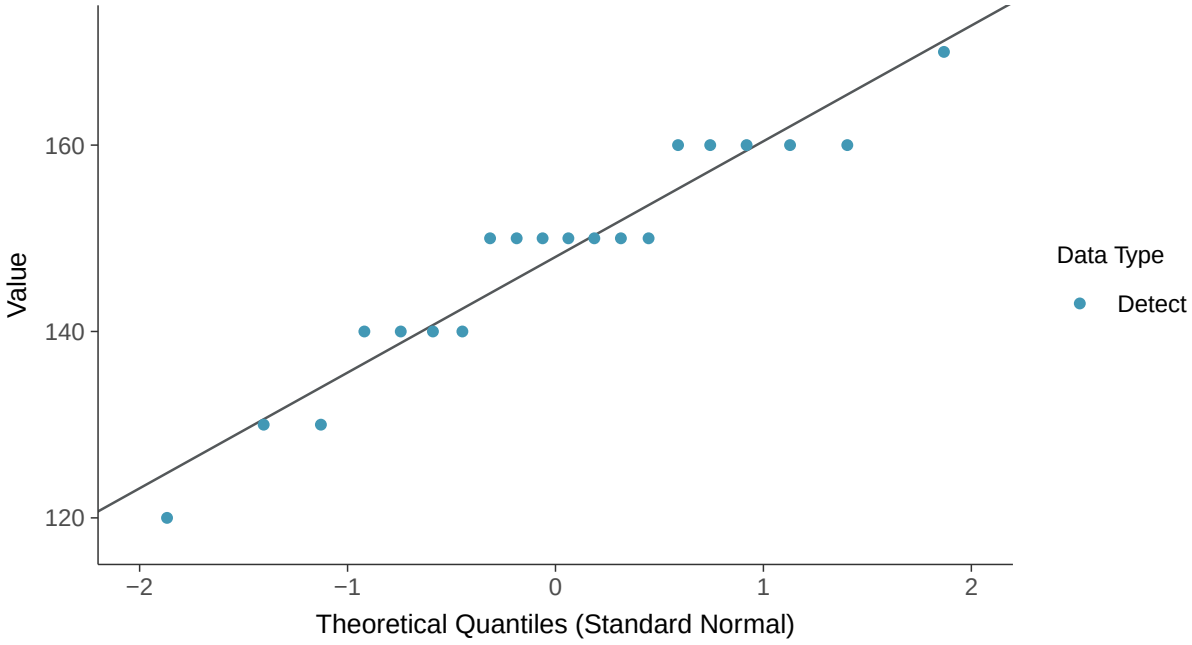
Boxplot by Season

Calcium, MW-07 (mg/L)



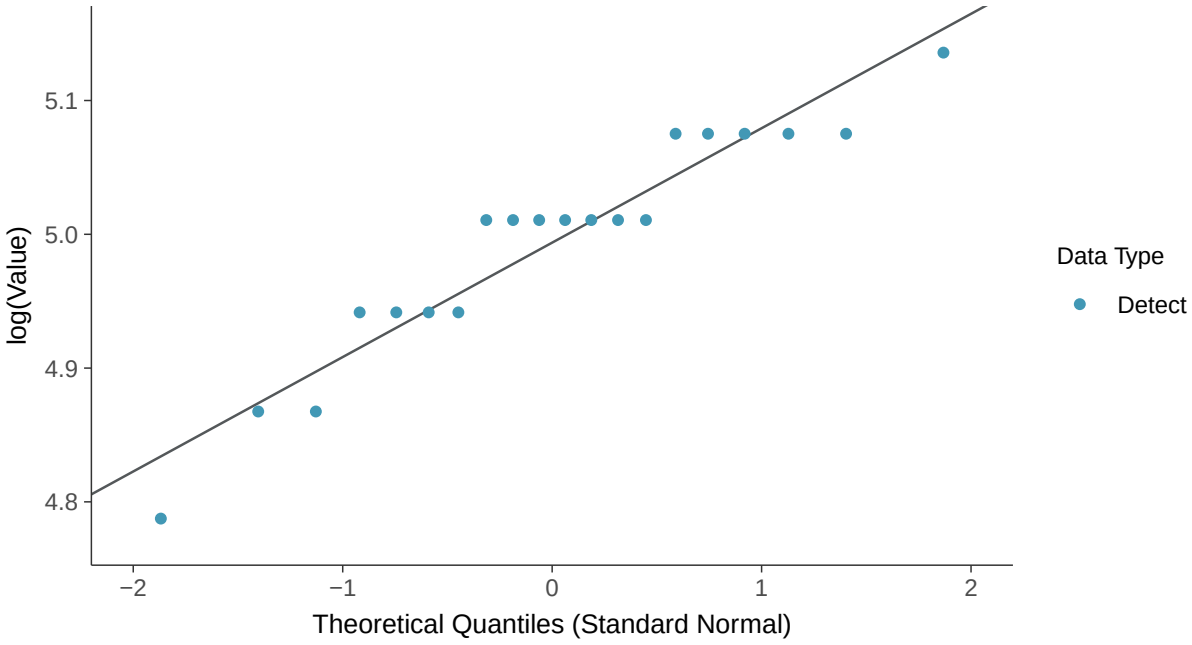
Normal Q-Q plot

Calcium, MW-07 (mg/L)



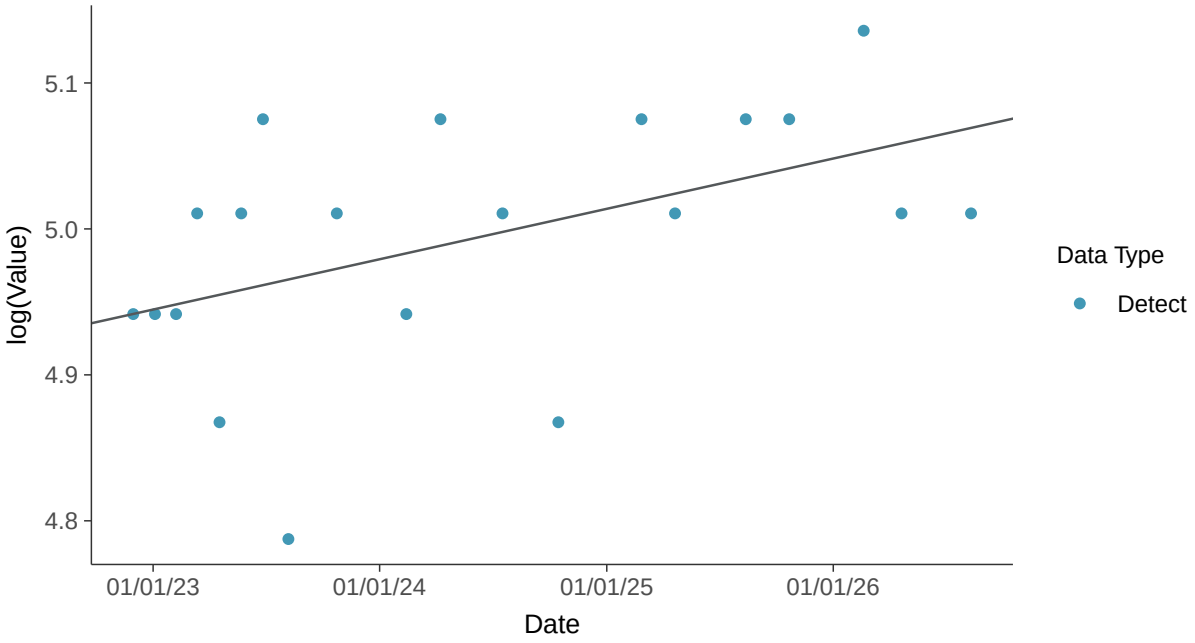
Lognormal Q-Q plot

Calcium, MW-07 (mg/L)



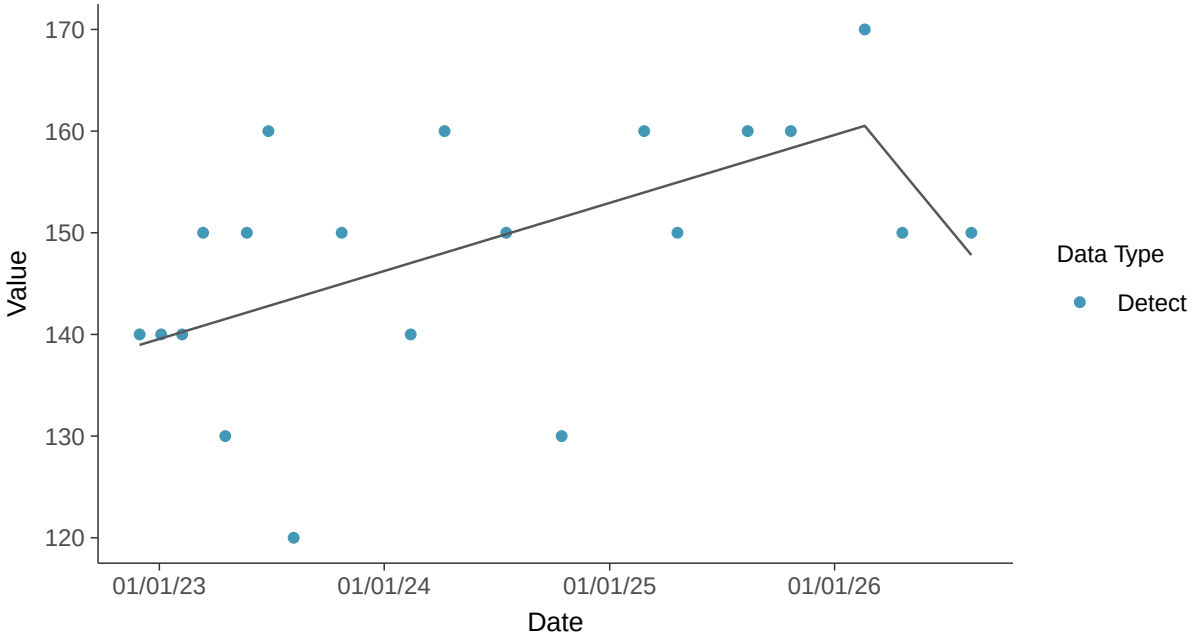
Trend Regression: Lognormal MLE

Calcium, MW-07 (mg/L)



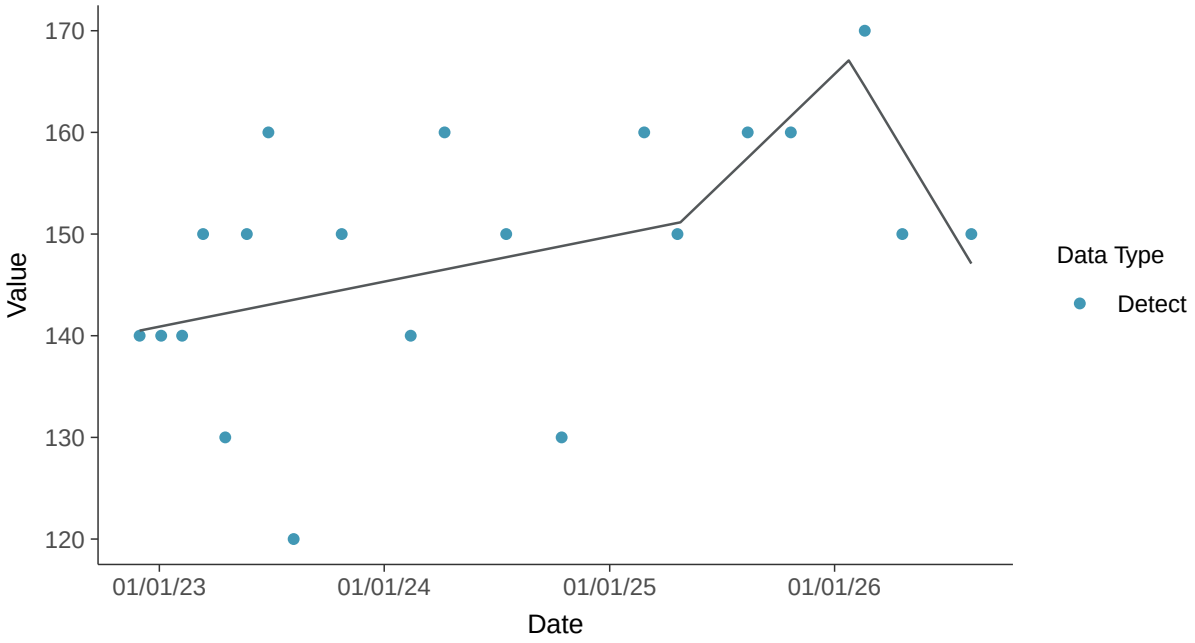
Trend Regression: Piecewise Linear-Linear

Calcium, MW-07 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Calcium, MW-07 (mg/L)

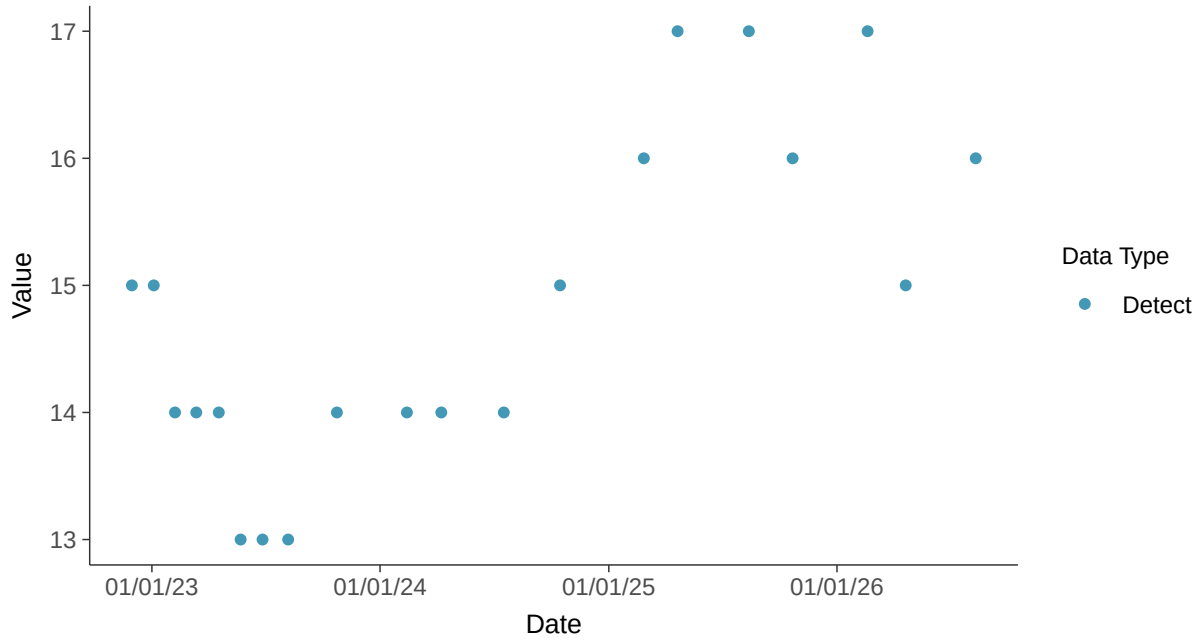


Appendix III: Chloride (as Cl), MW-07

ID: 17_1_3_108

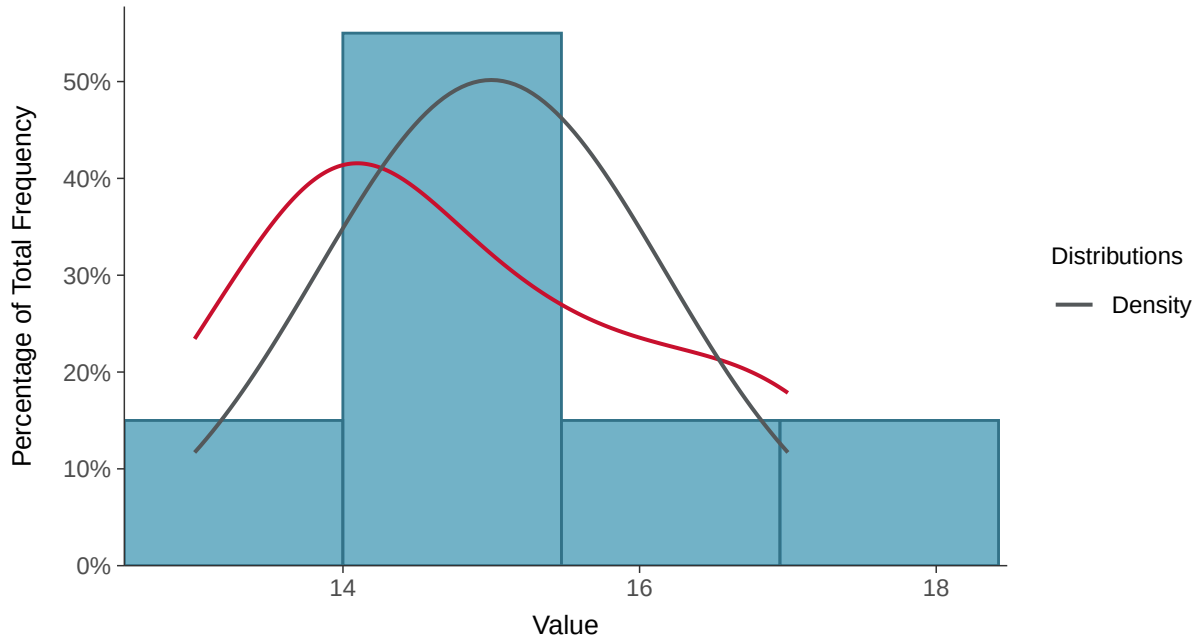
Scatter Plot

Chloride (as Cl), MW-07 (mg/L)



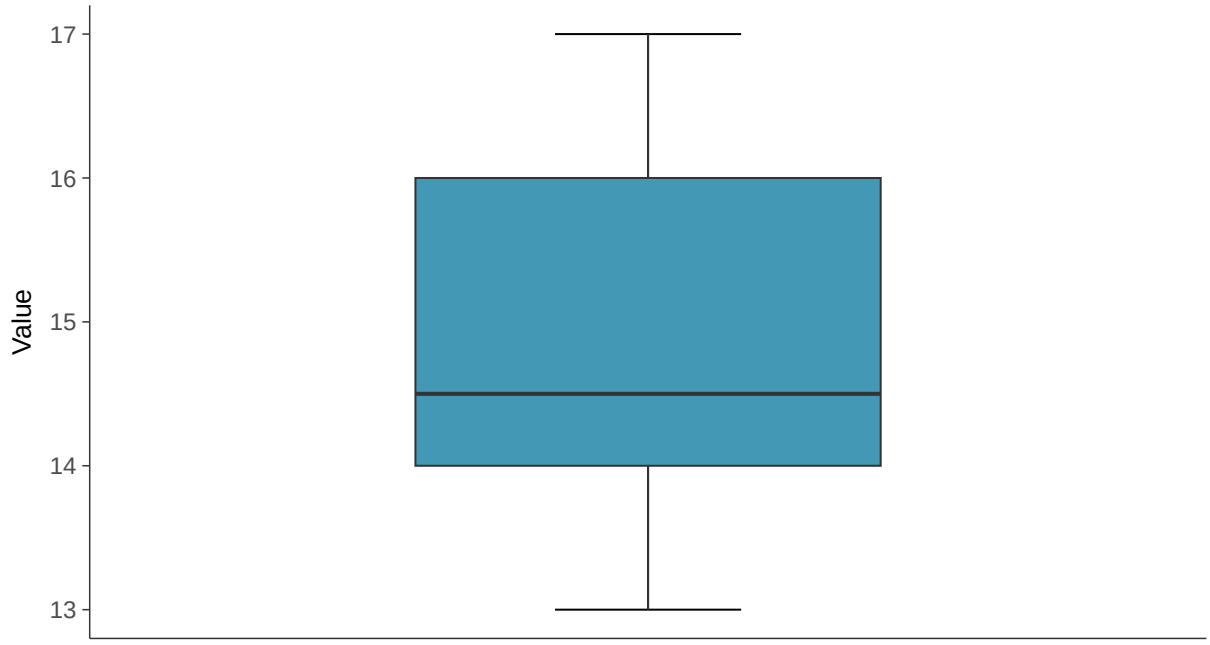
Histogram

Chloride (as Cl), MW-07 (mg/L)



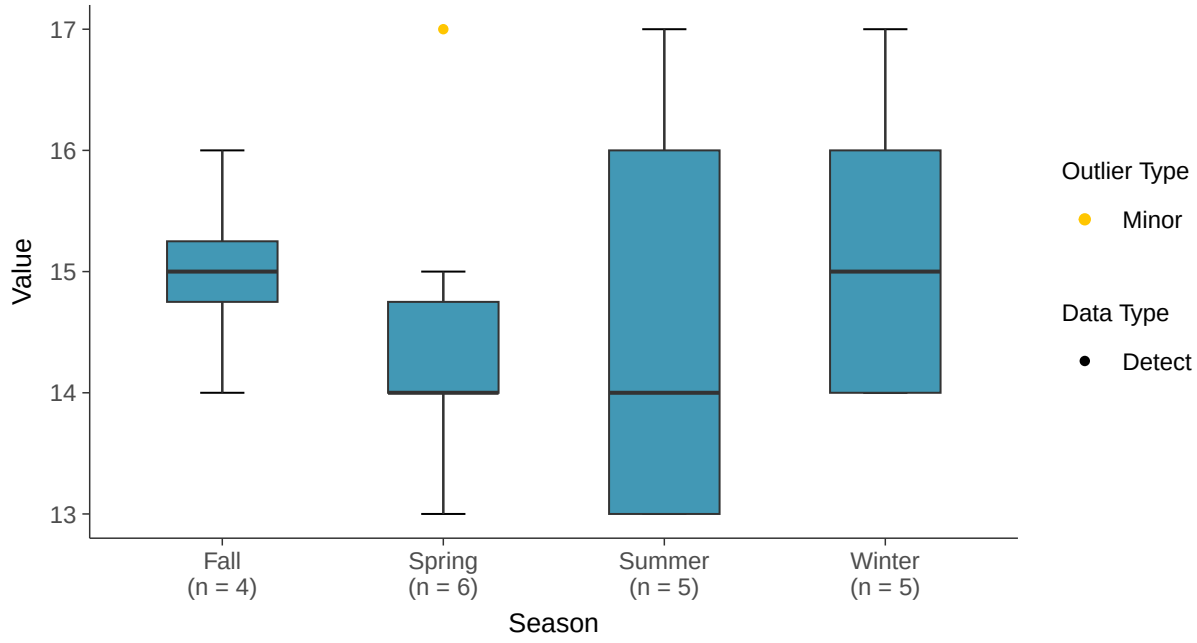
Boxplot

Chloride (as Cl), MW-07 (mg/L)



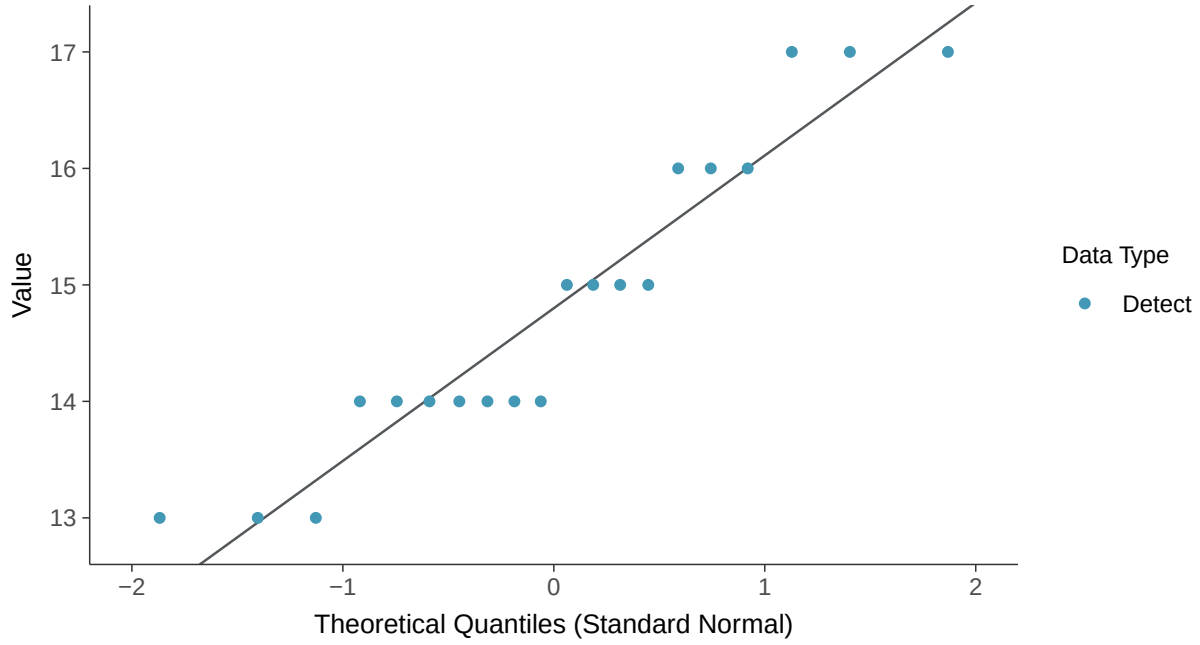
Boxplot by Season

Chloride (as Cl), MW-07 (mg/L)



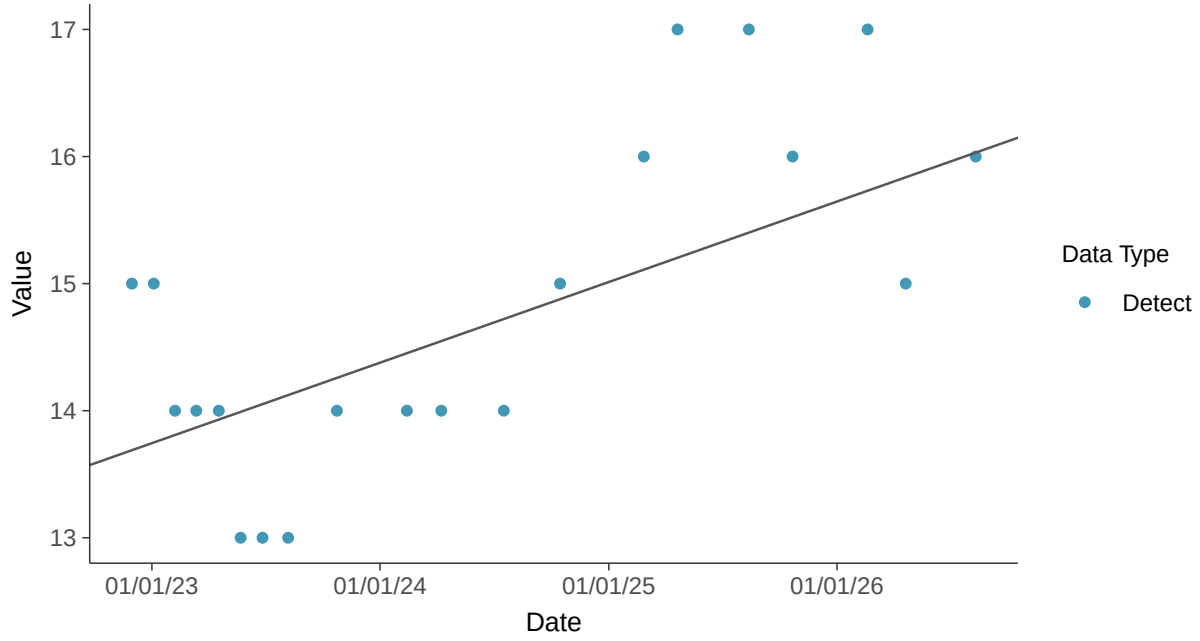
Normal Q-Q plot

Chloride (as Cl), MW-07 (mg/L)



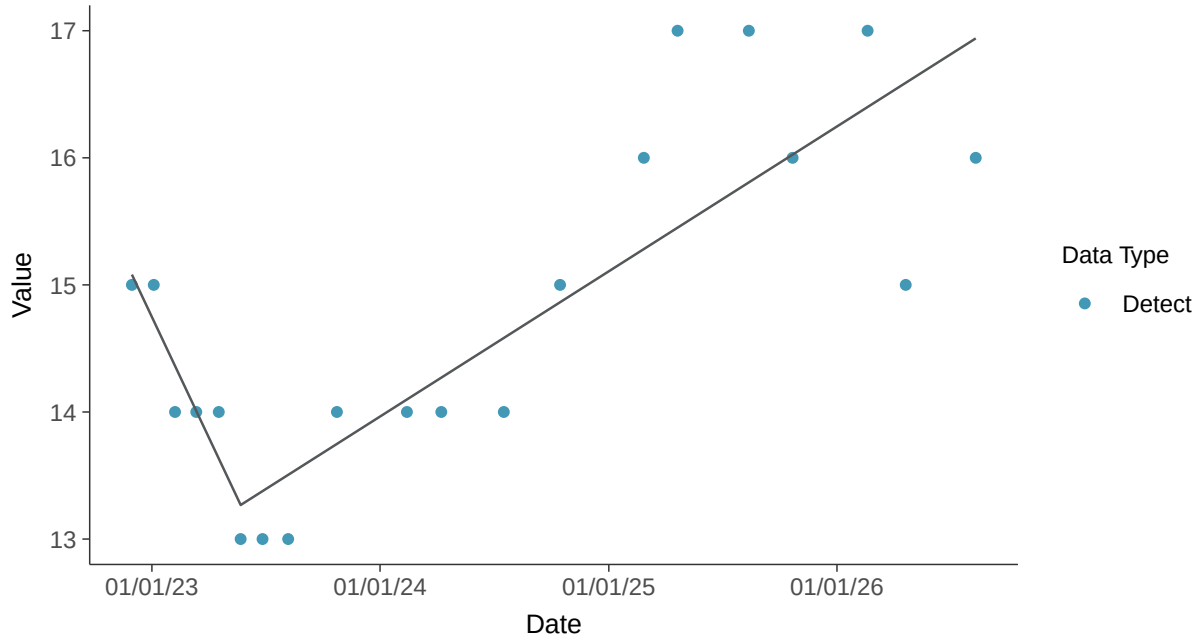
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Chloride (as Cl), MW-07 (mg/L)



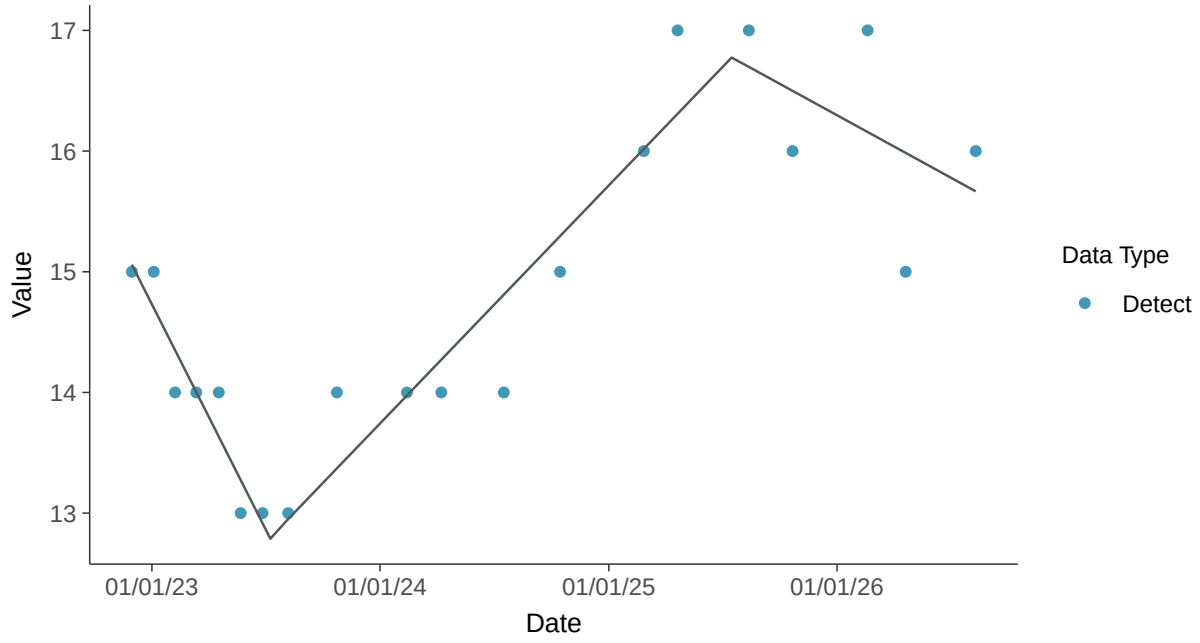
Trend Regression: Piecewise Linear-Linear

Chloride (as Cl), MW-07 (mg/L)



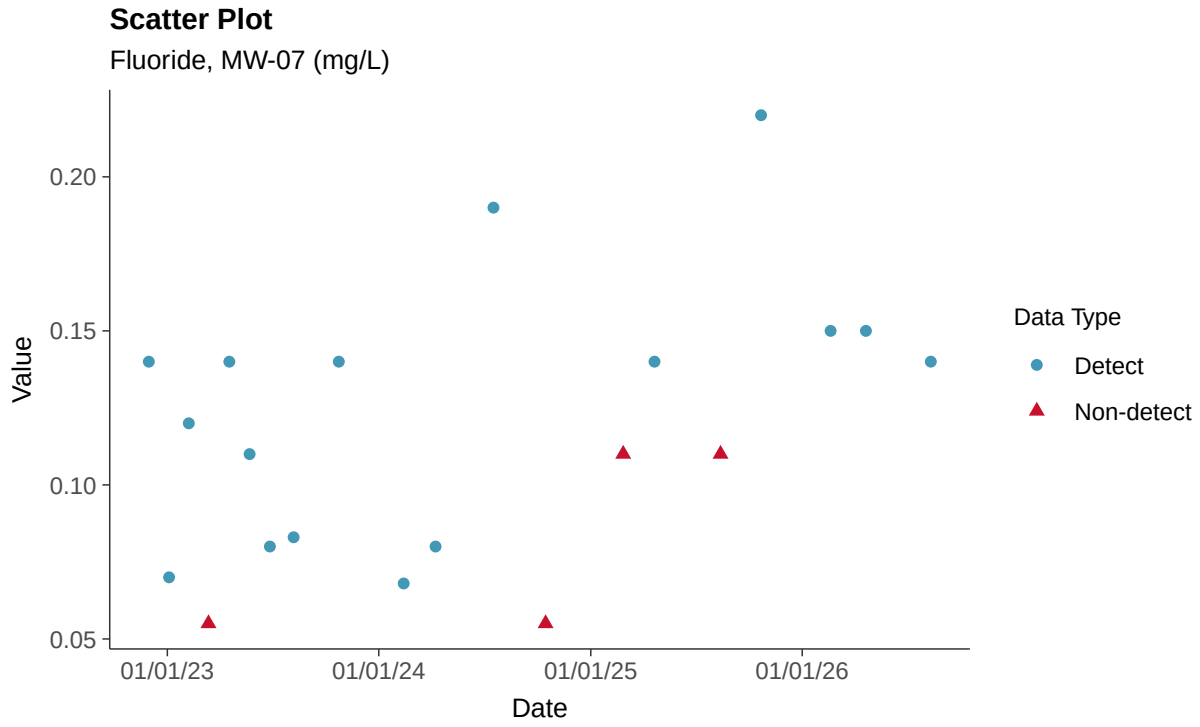
Trend Regression: Piecewise Linear-Linear-Linear

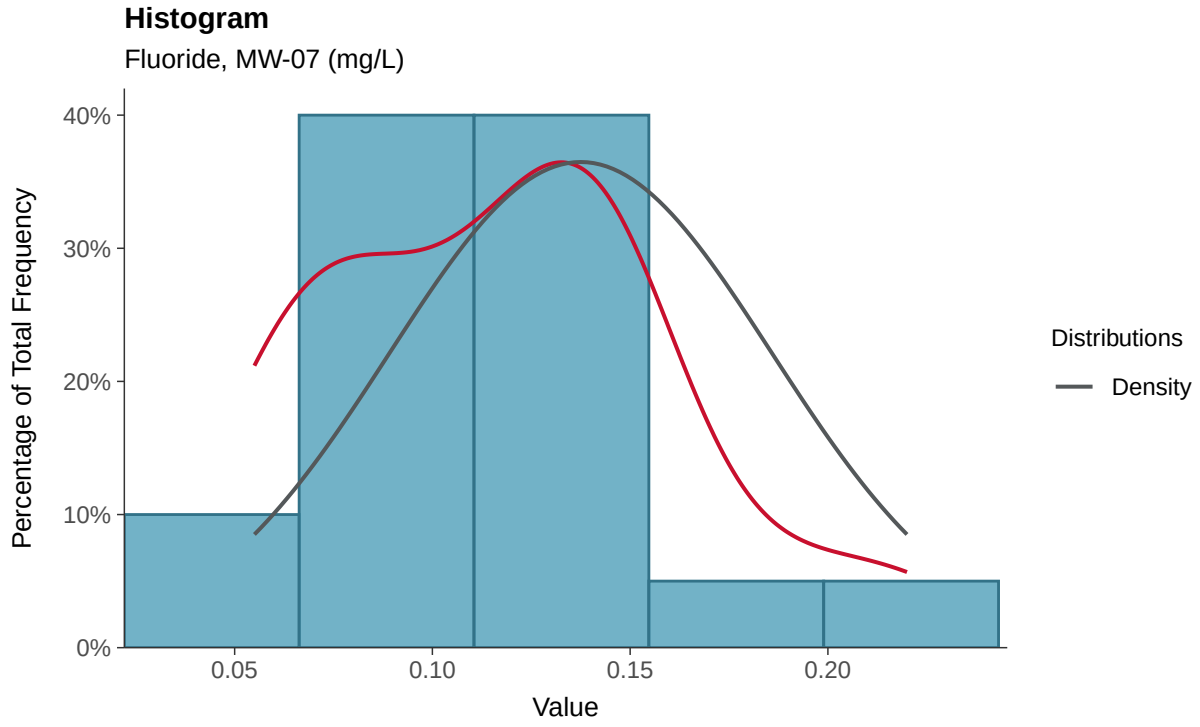
Chloride (as Cl), MW-07 (mg/L)



Appendix III: Fluoride, MW-07

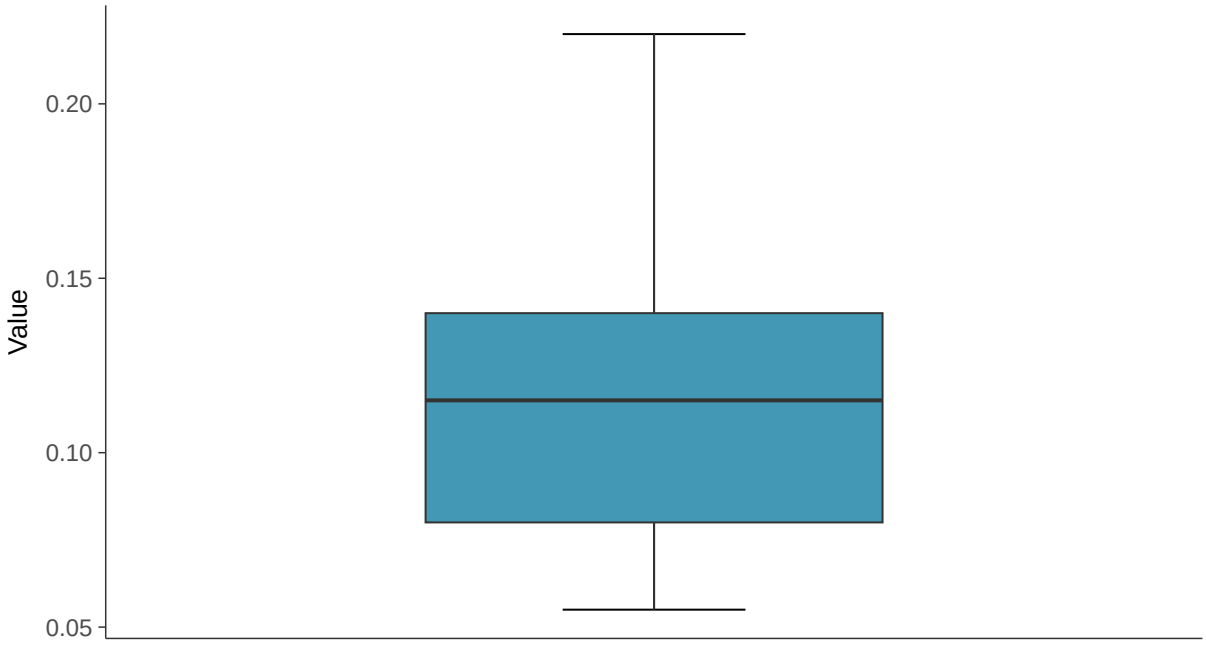
ID: 17_1_3_112





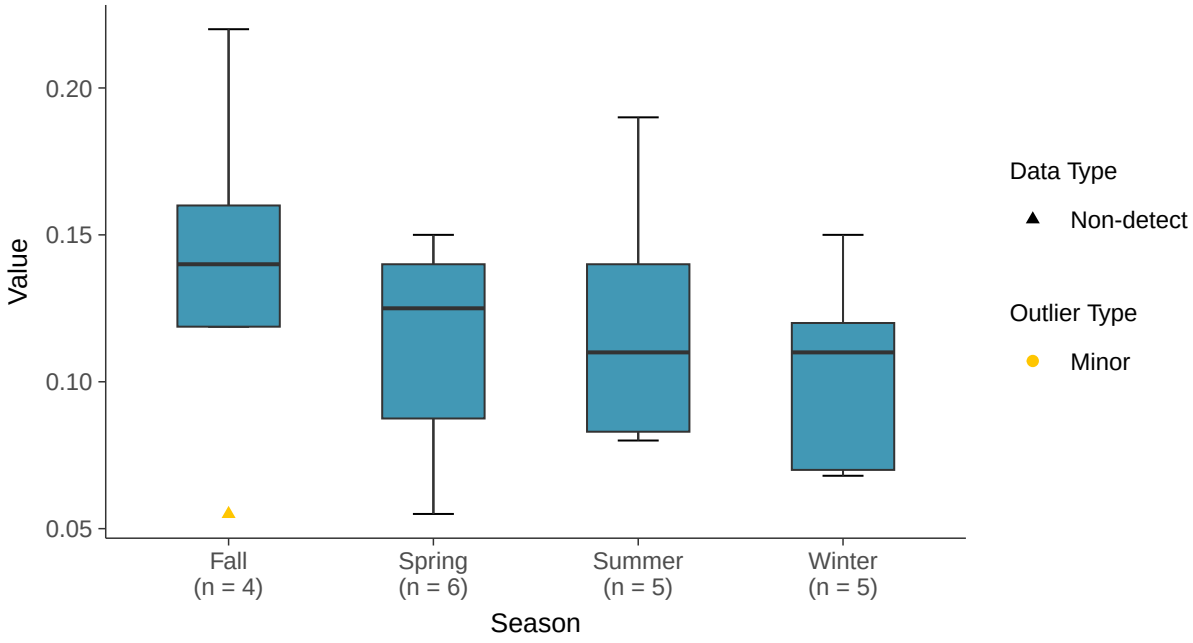
Boxplot

Fluoride, MW-07 (mg/L)



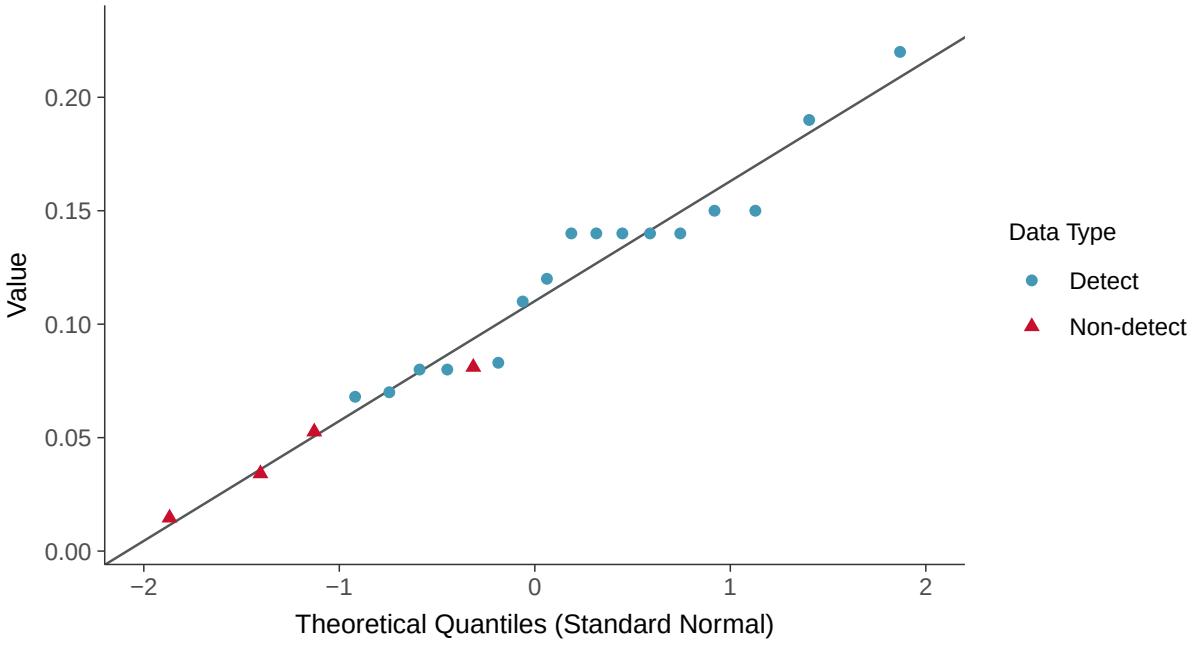
Boxplot by Season

Fluoride, MW-07 (mg/L)



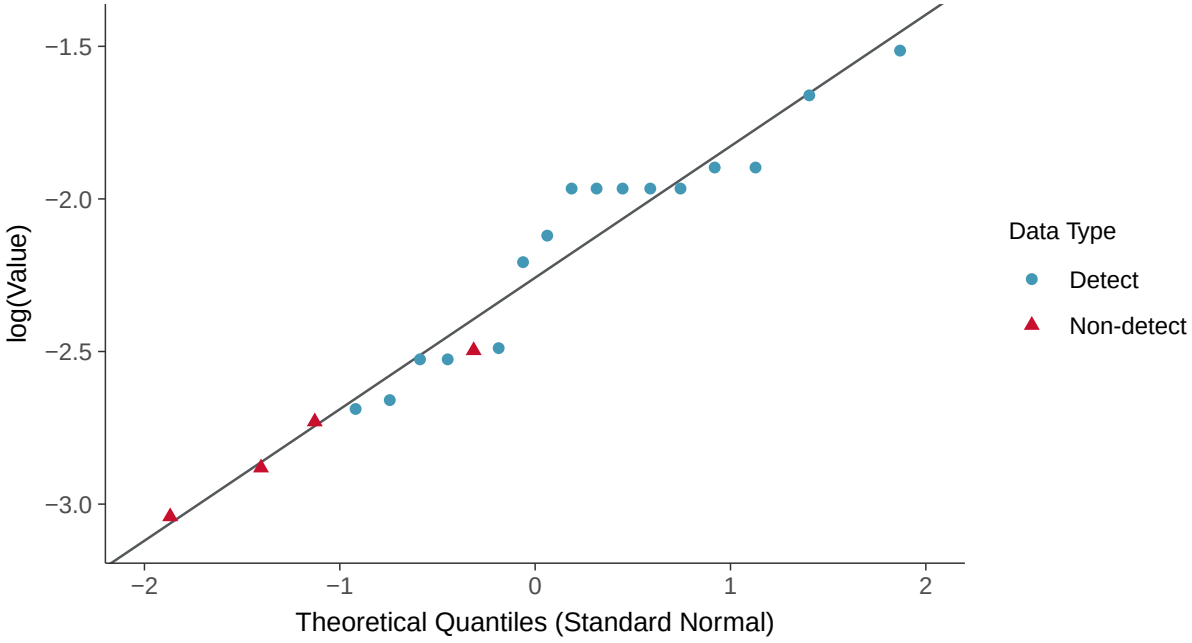
Normal Q-Q plot using ROS Imputed Estimates

Fluoride, MW-07 (mg/L)



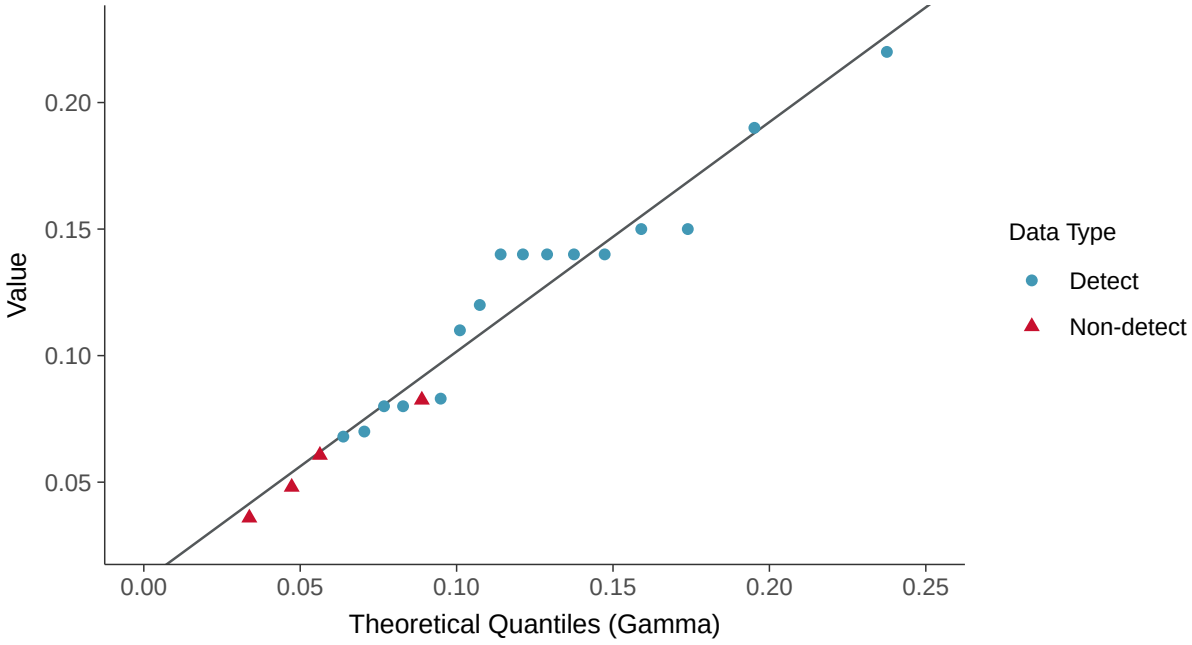
Lognormal Q-Q plot using ROS Imputed Estimates

Fluoride, MW-07 (mg/L)



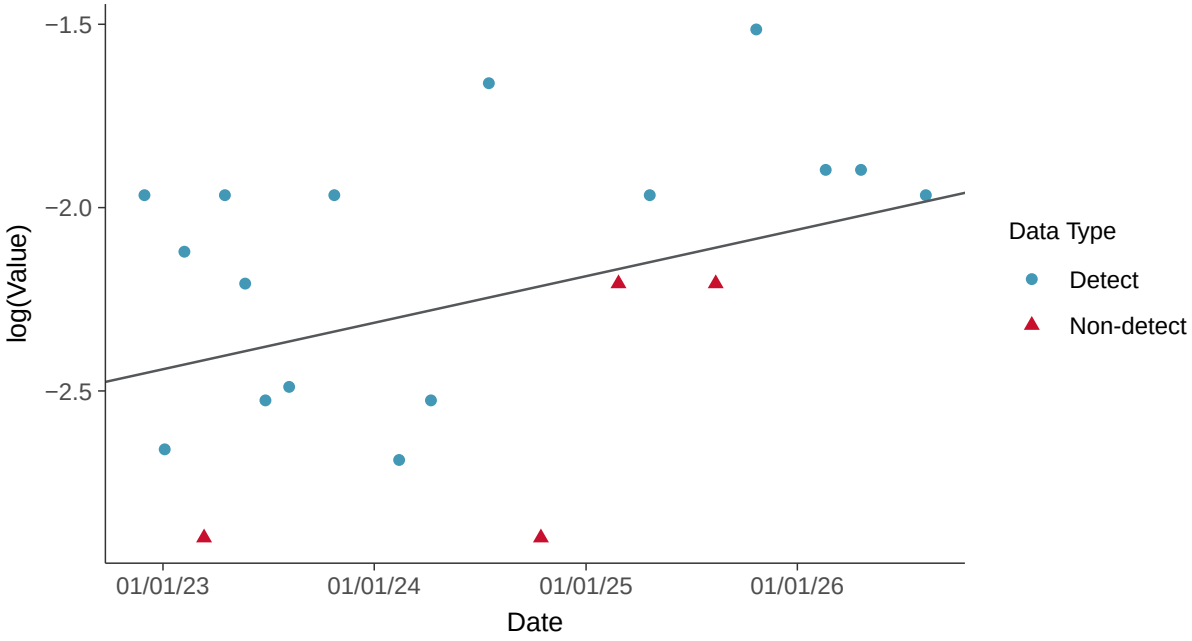
Gamma Q-Q plot using ROS Imputed Estimates

Fluoride, MW-07 (mg/L)



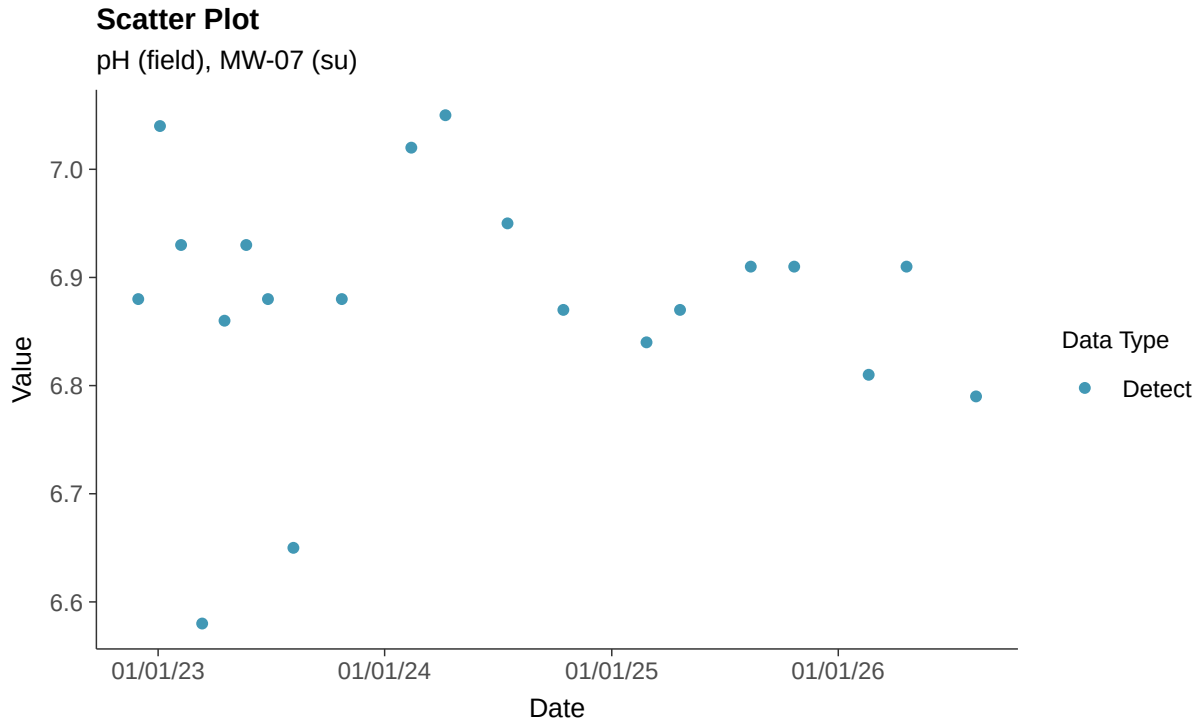
Trend Regression: Lognormal MLE

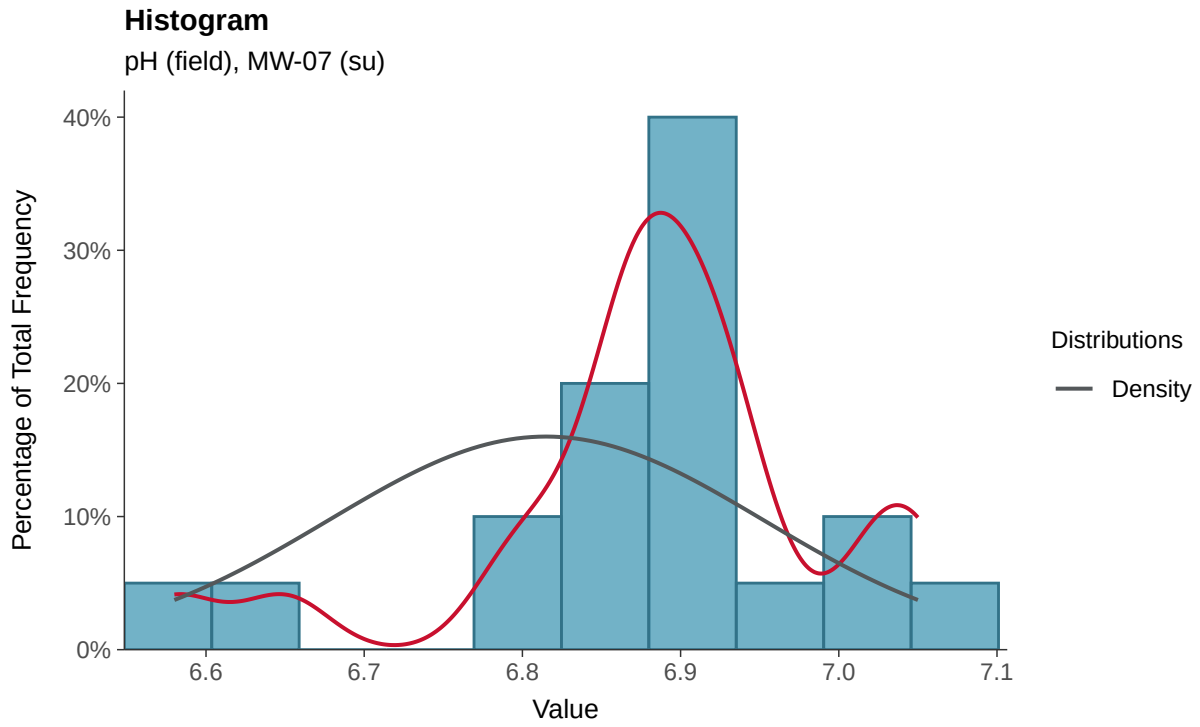
Fluoride, MW-07 (mg/L)



Appendix III: pH (field), MW-07

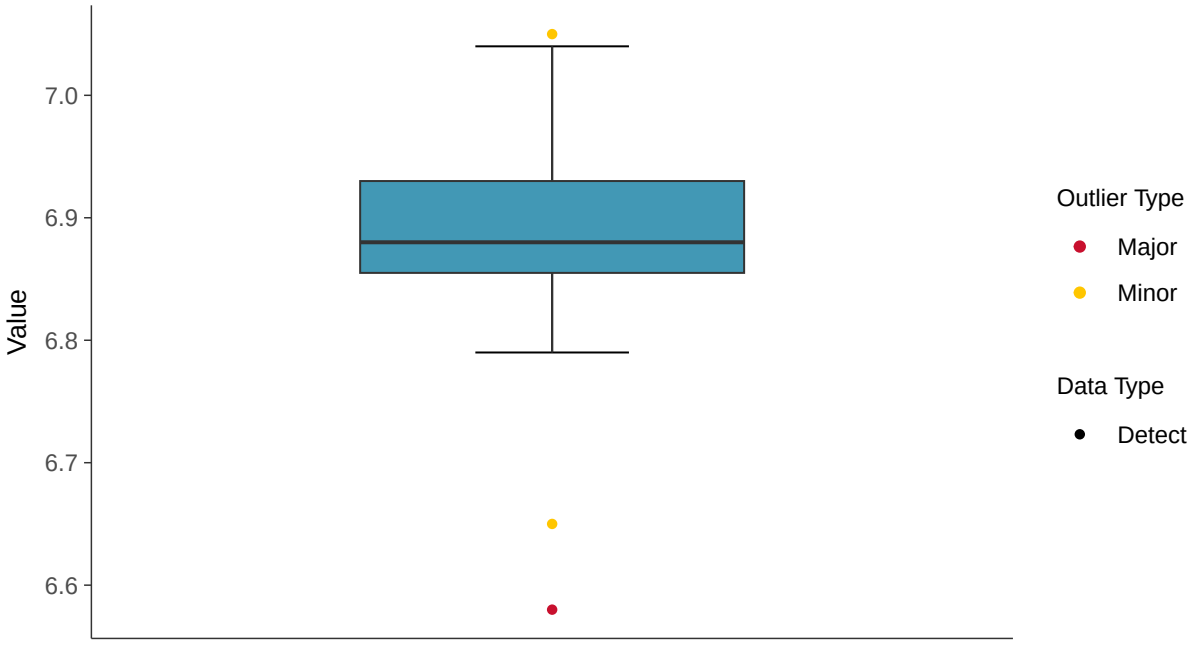
ID: 17_1_3_120





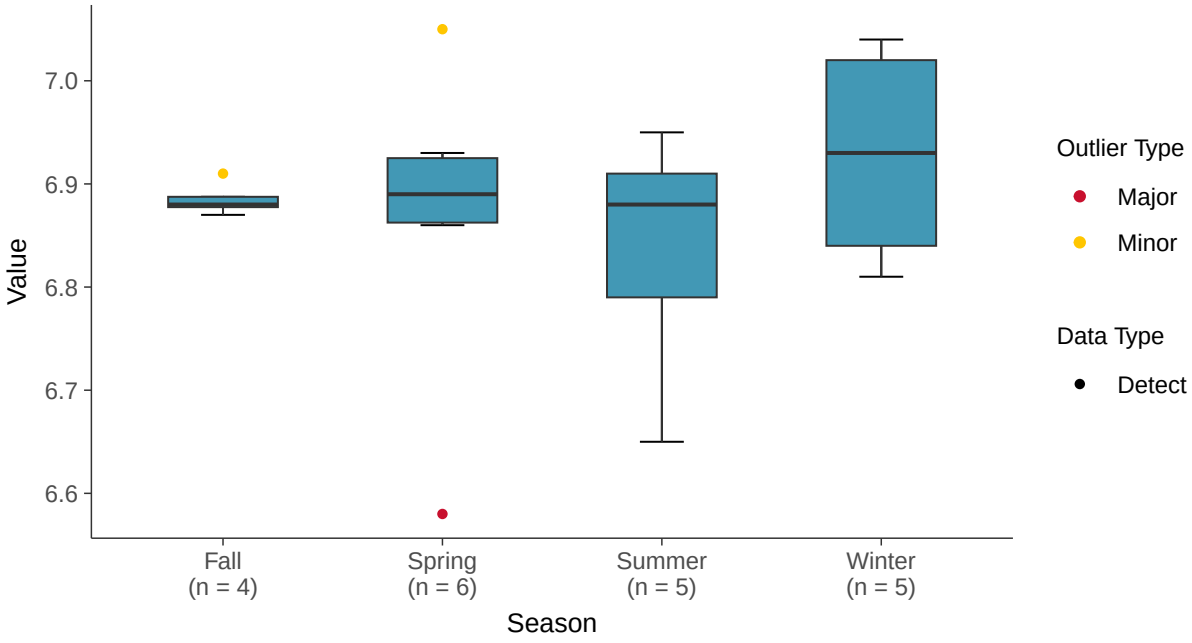
Boxplot

pH (field), MW-07 (su)



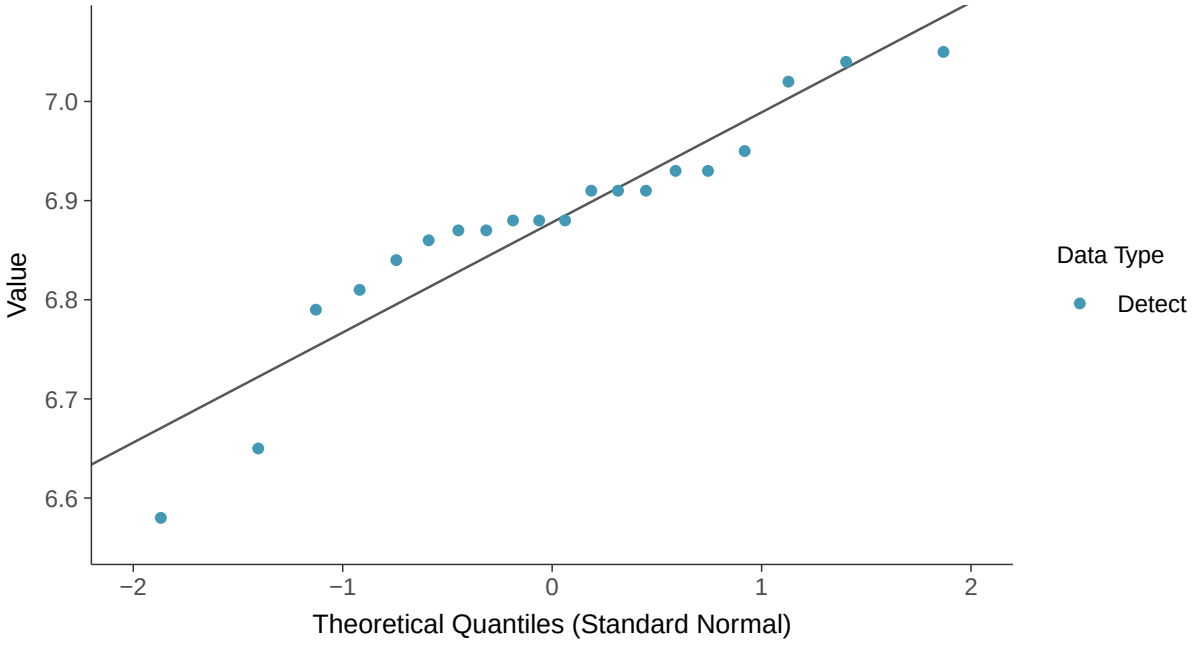
Boxplot by Season

pH (field), MW-07 (su)



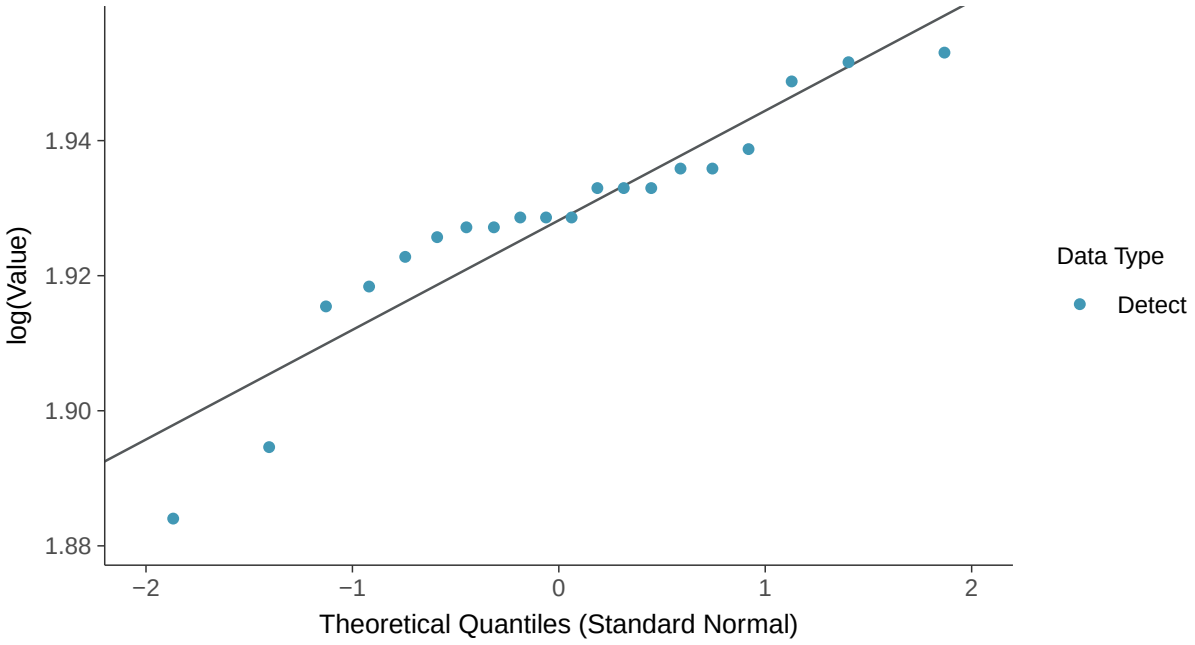
Normal Q-Q plot

pH (field), MW-07 (su)



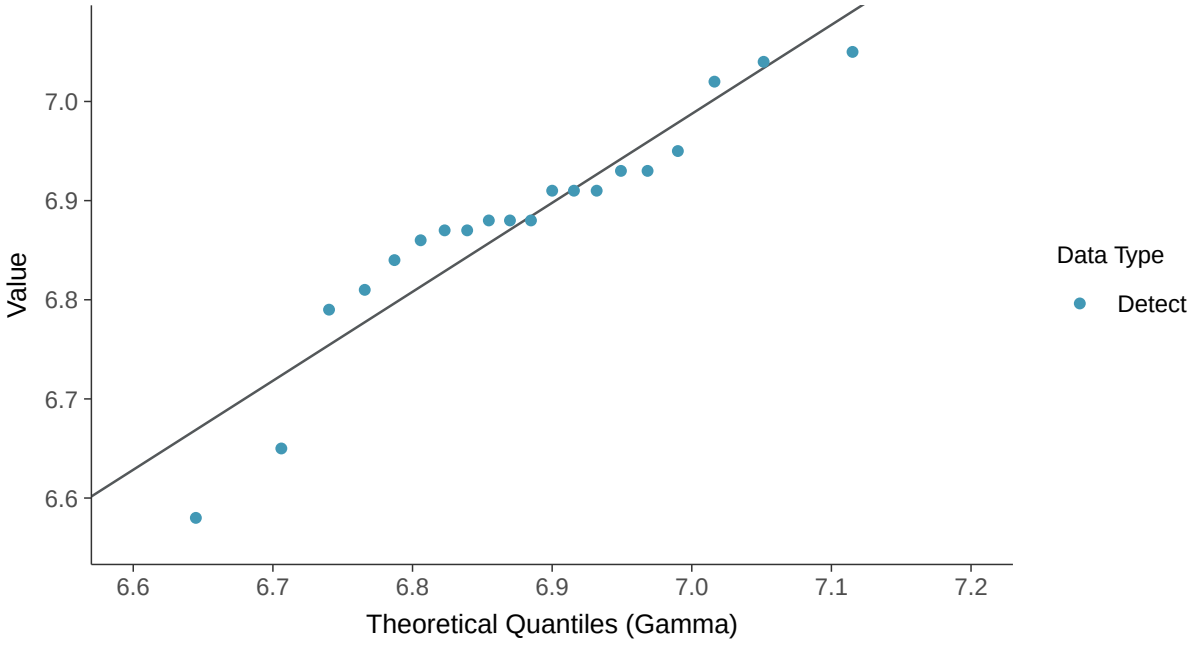
Lognormal Q-Q plot

pH (field), MW-07 (su)



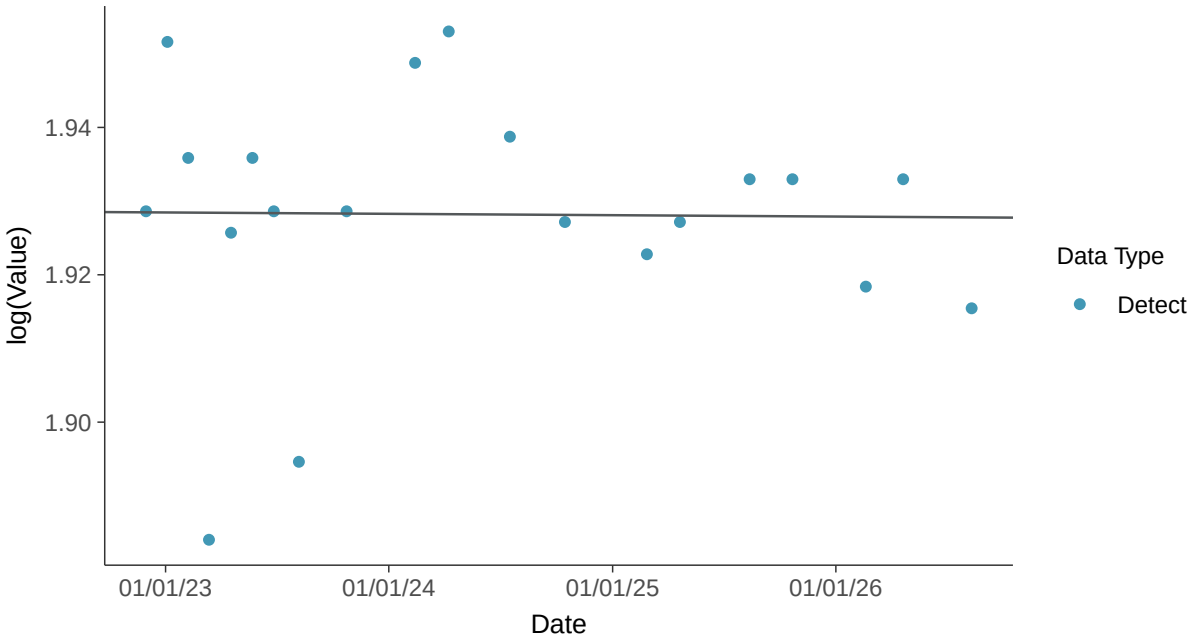
Gamma Q-Q plot

pH (field), MW-07 (su)



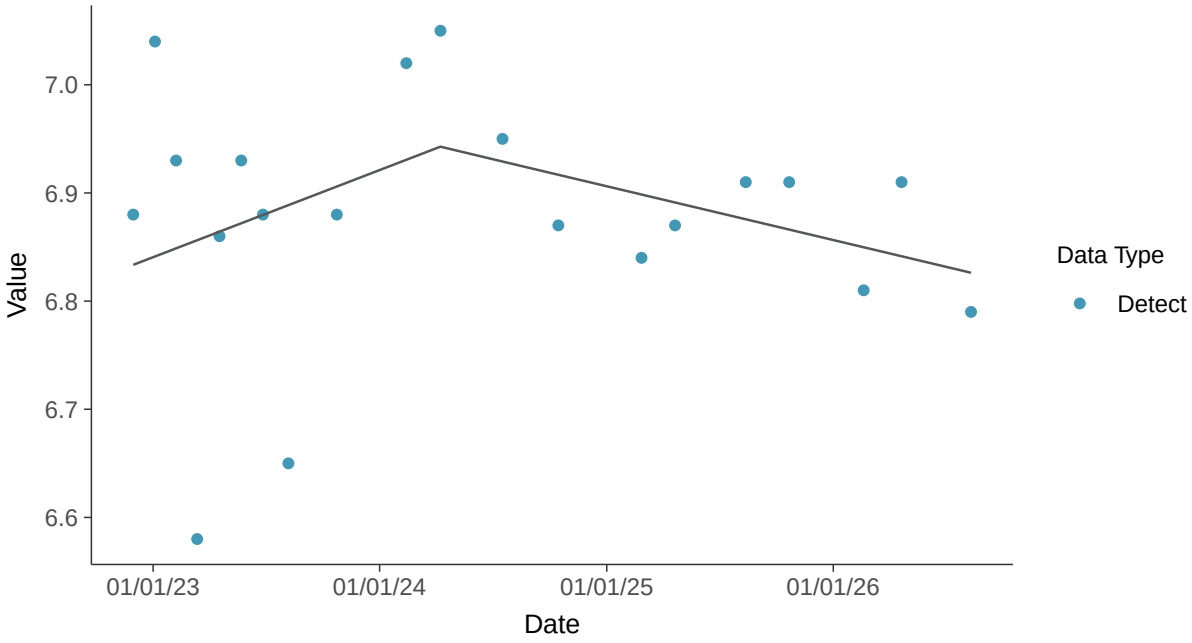
Trend Regression: Lognormal MLE

pH (field), MW-07 (su)



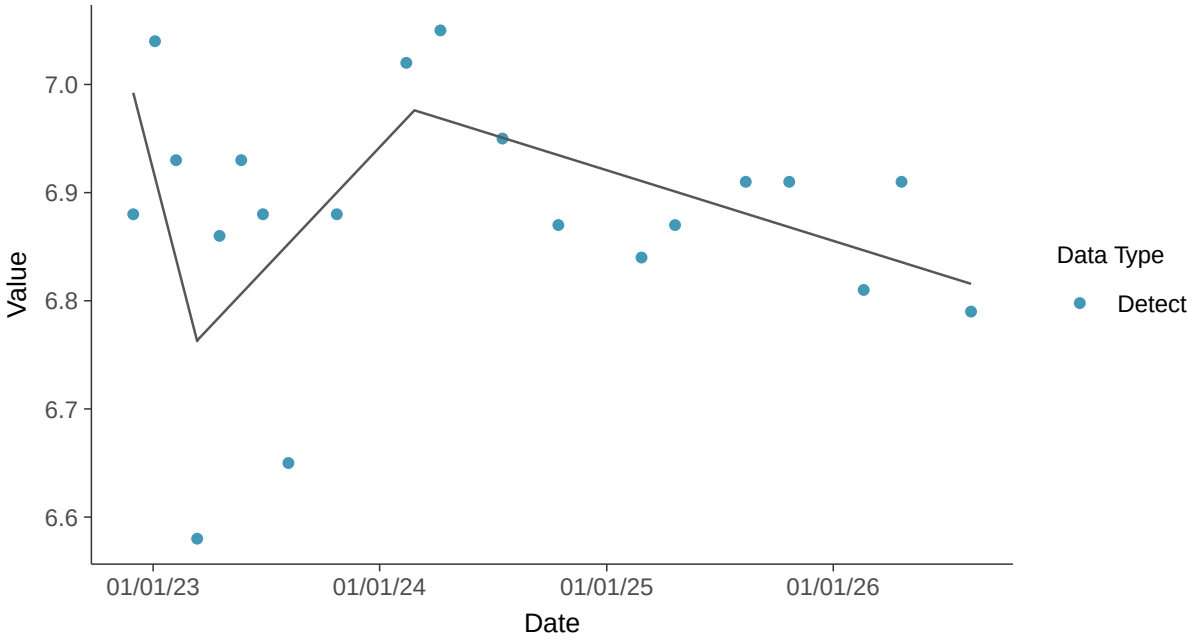
Trend Regression: Piecewise Linear-Linear

pH (field), MW-07 (su)



Trend Regression: Piecewise Linear-Linear-Linear

pH (field), MW-07 (su)

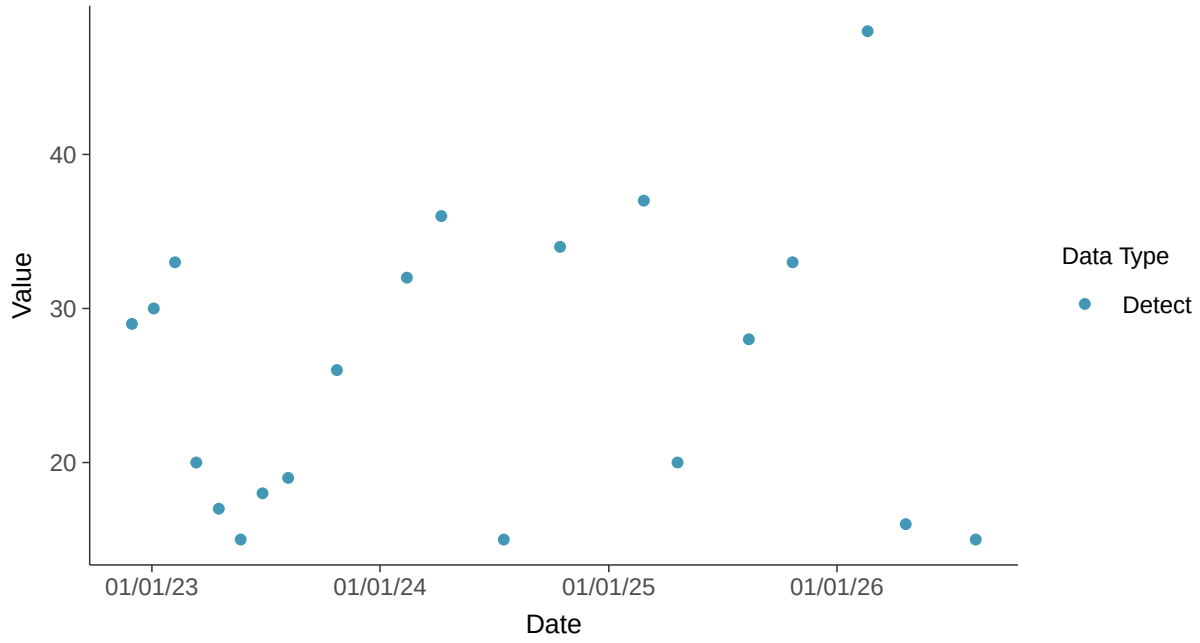


Appendix III: Sulfate (as SO4), MW-07

ID: 17_1_3_124

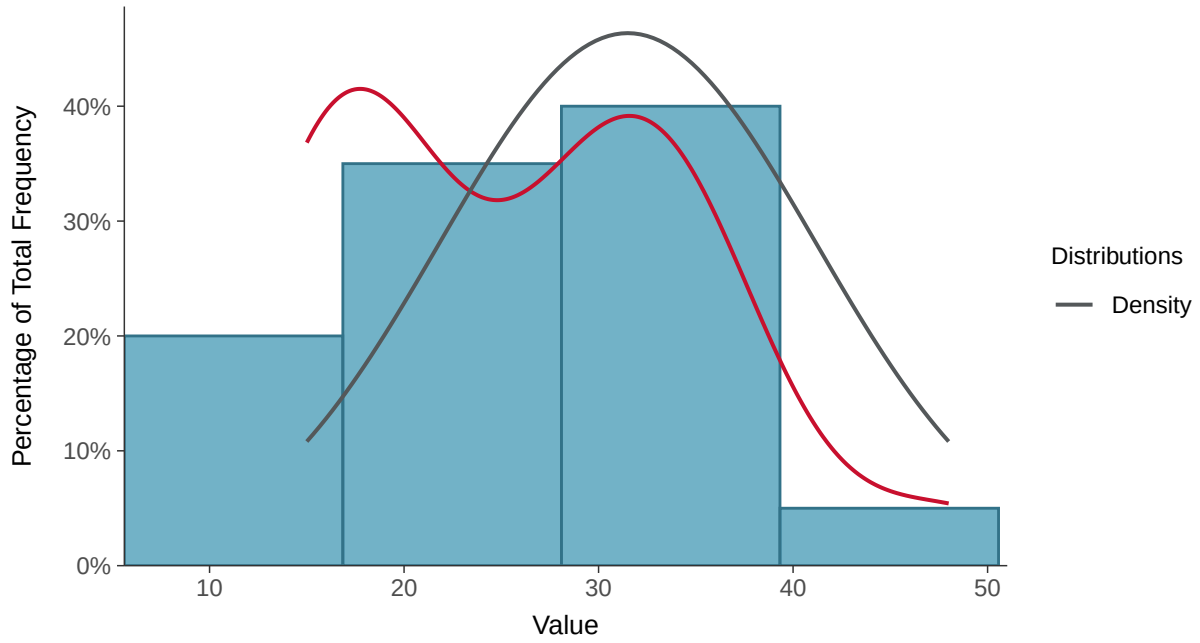
Scatter Plot

Sulfate (as SO4), MW-07 (mg/L)



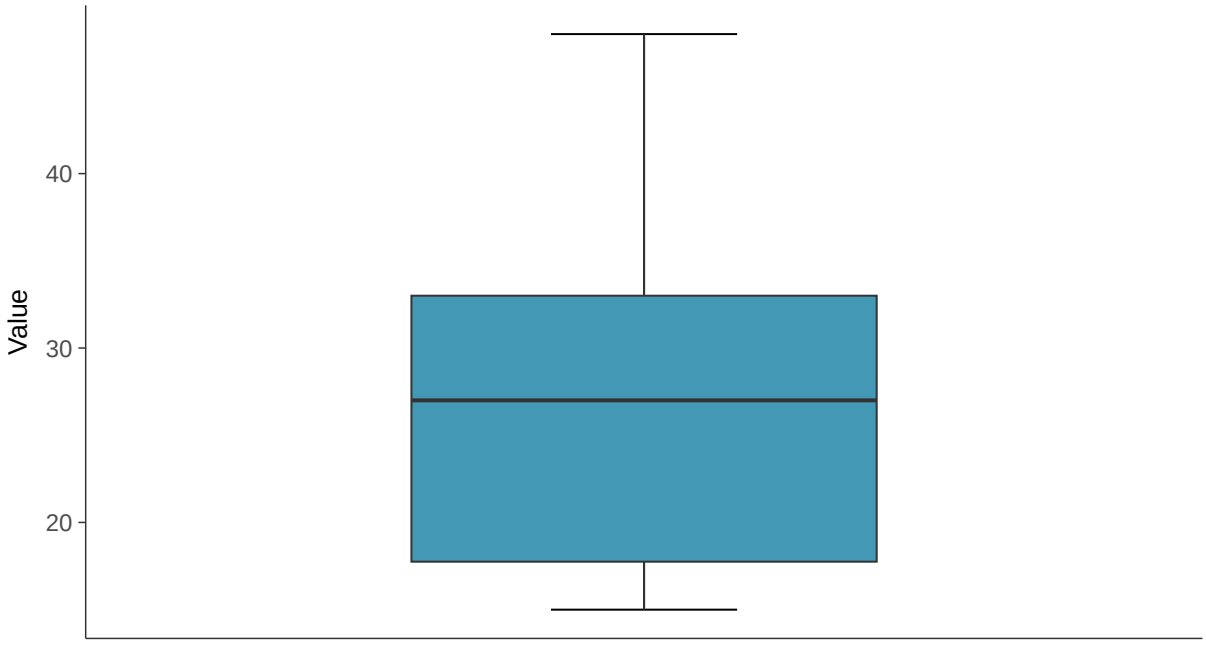
Histogram

Sulfate (as SO4), MW-07 (mg/L)



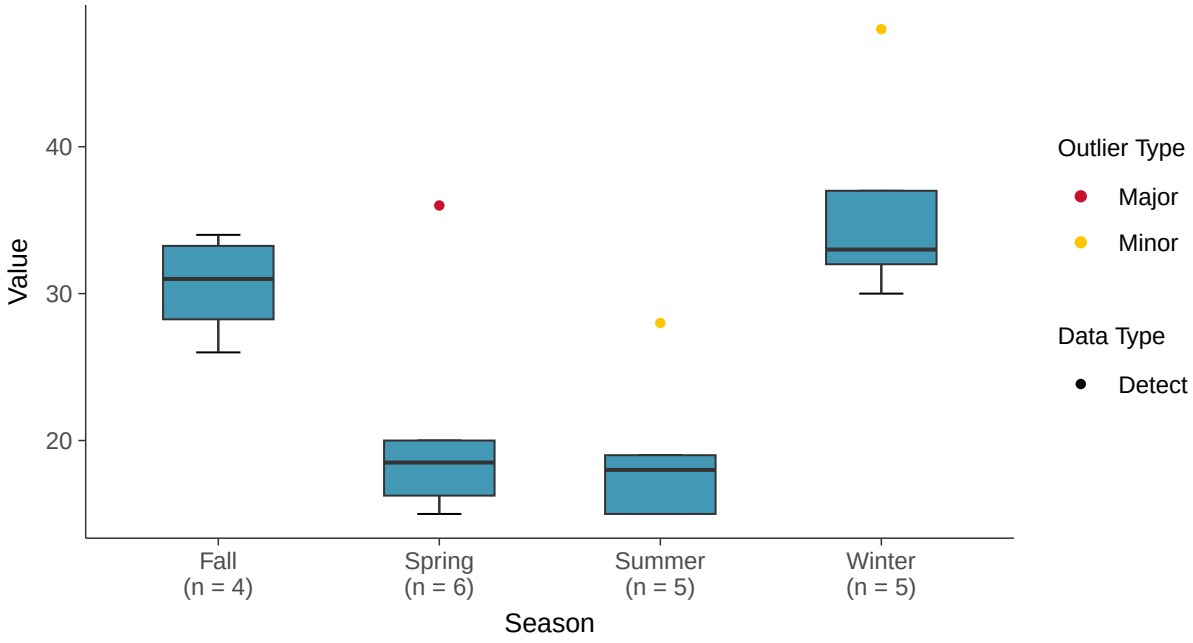
Boxplot

Sulfate (as SO4), MW-07 (mg/L)



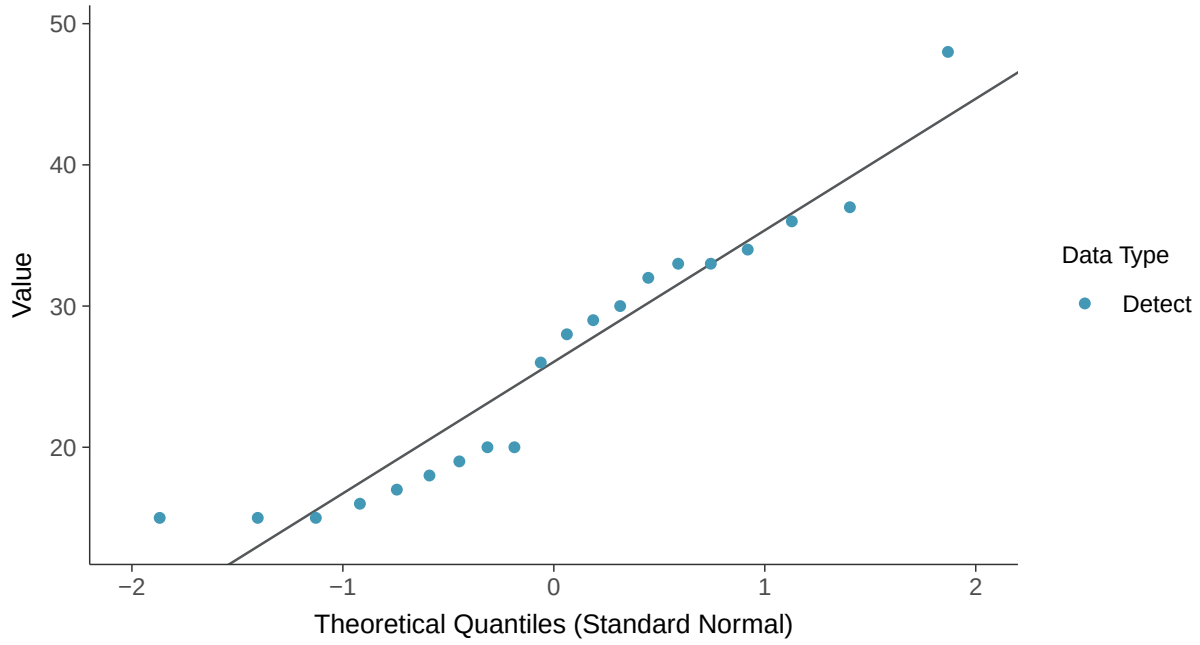
Boxplot by Season

Sulfate (as SO4), MW-07 (mg/L)



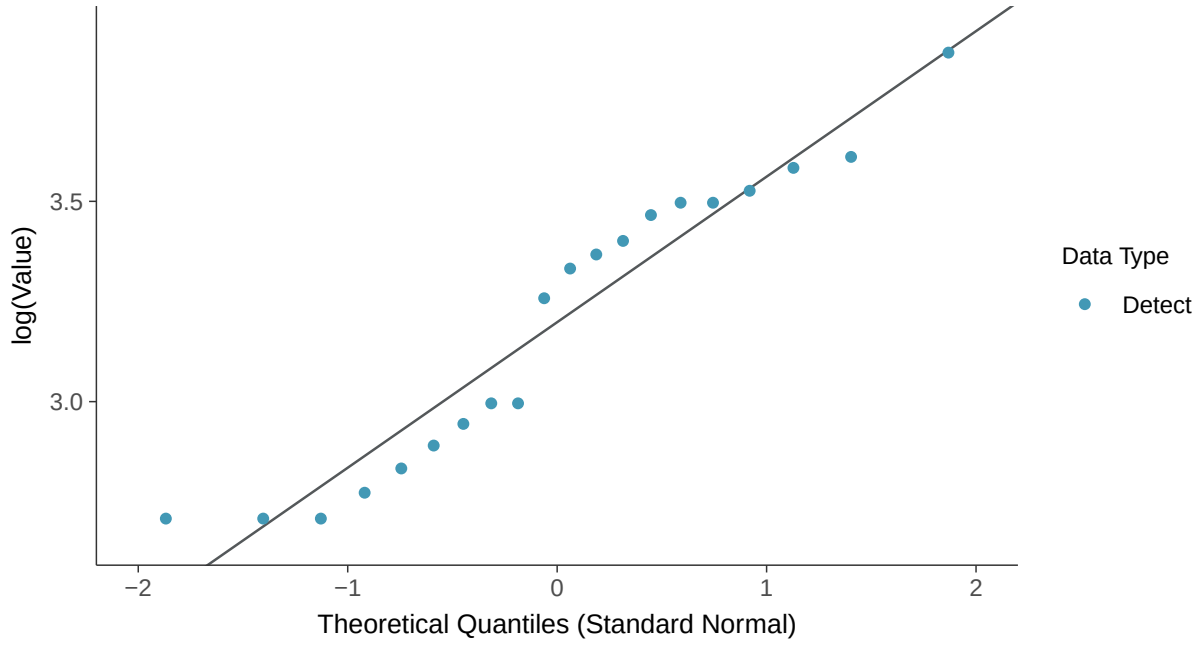
Normal Q-Q plot

Sulfate (as SO4), MW-07 (mg/L)



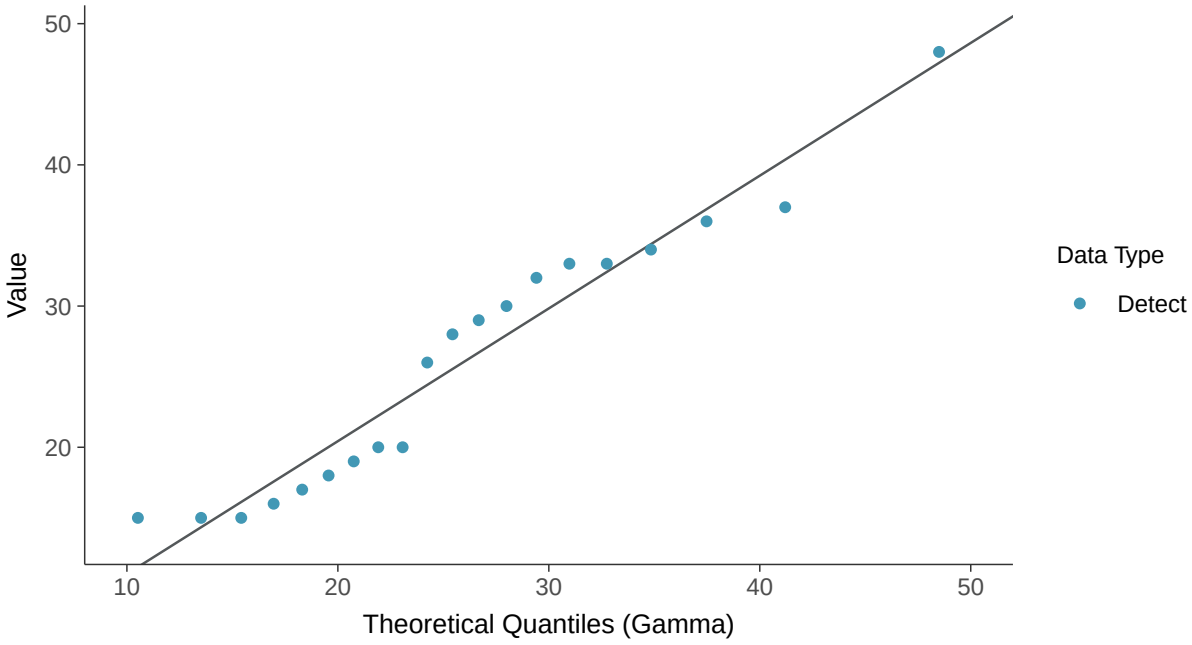
Lognormal Q-Q plot

Sulfate (as SO4), MW-07 (mg/L)



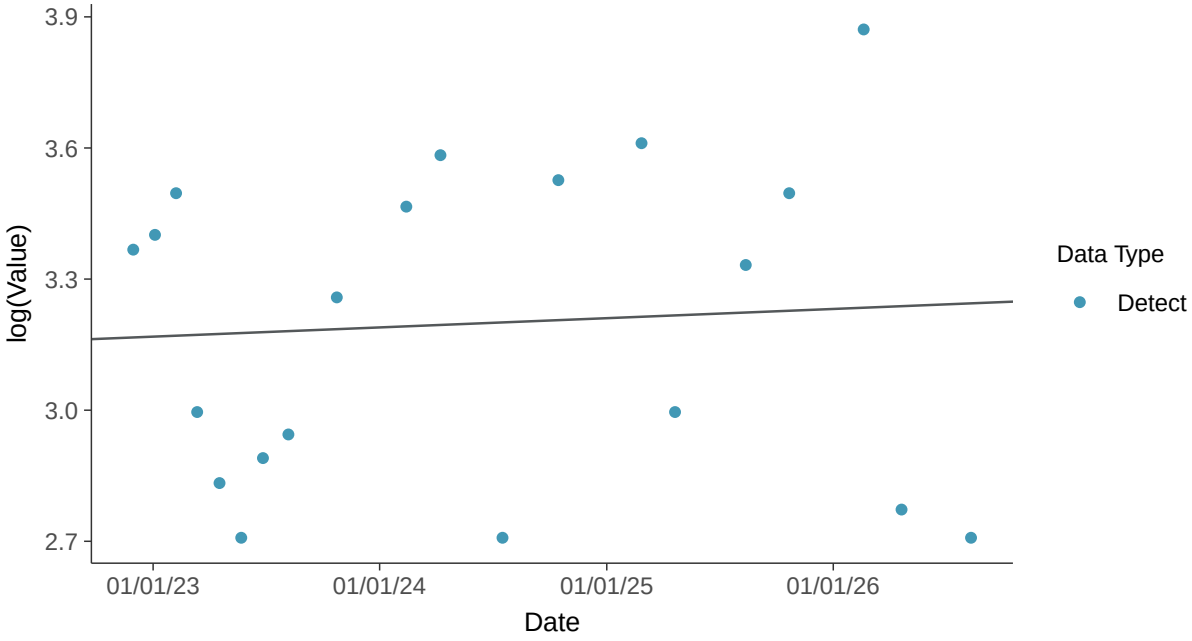
Gamma Q-Q plot

Sulfate (as SO4), MW-07 (mg/L)



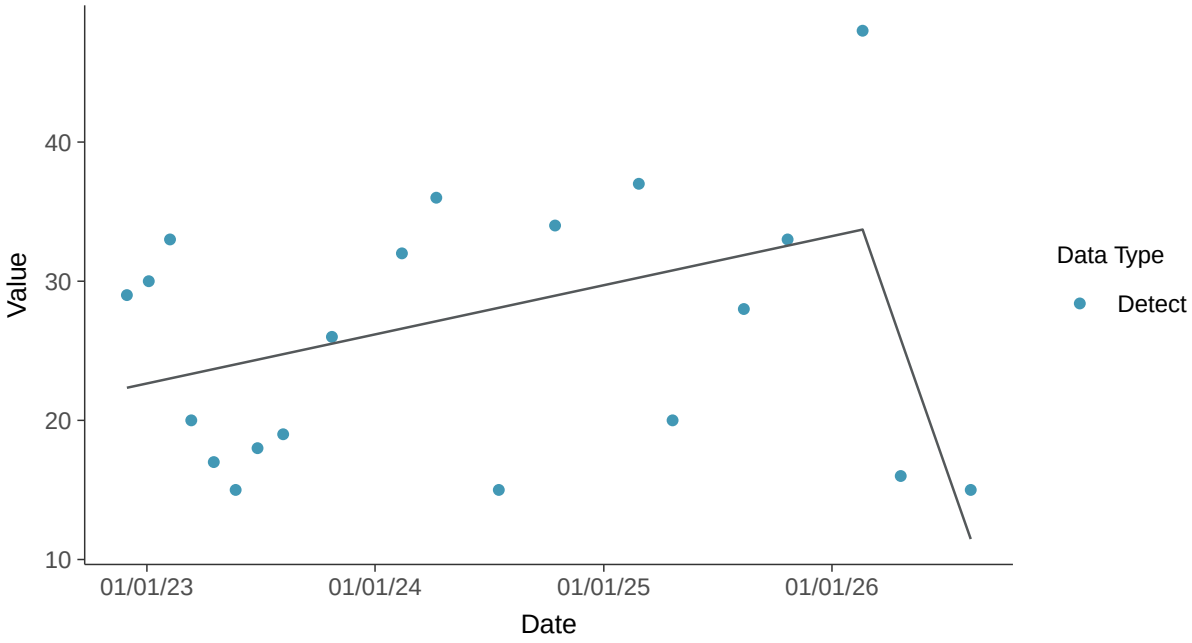
Trend Regression: Lognormal MLE

Sulfate (as SO4), MW-07 (mg/L)



Trend Regression: Piecewise Linear-Linear

Sulfate (as SO4), MW-07 (mg/L)

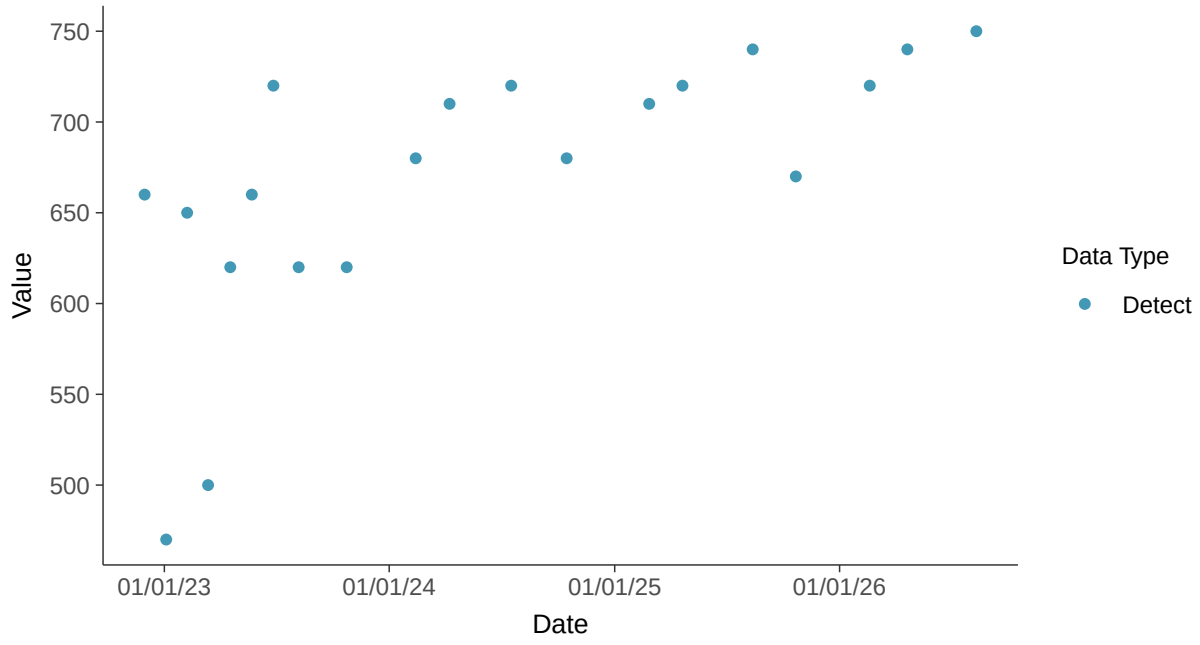


Appendix III: Total Dissolved Solids, MW-07

ID: 17_1_3_126

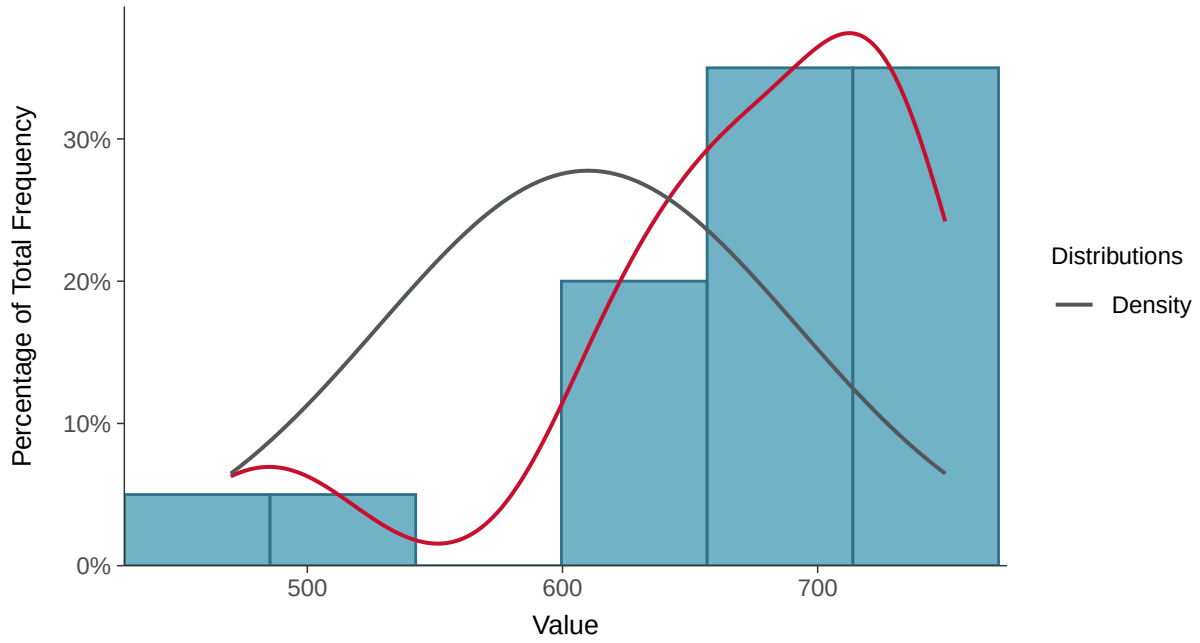
Scatter Plot

Total Dissolved Solids, MW-07 (mg/L)



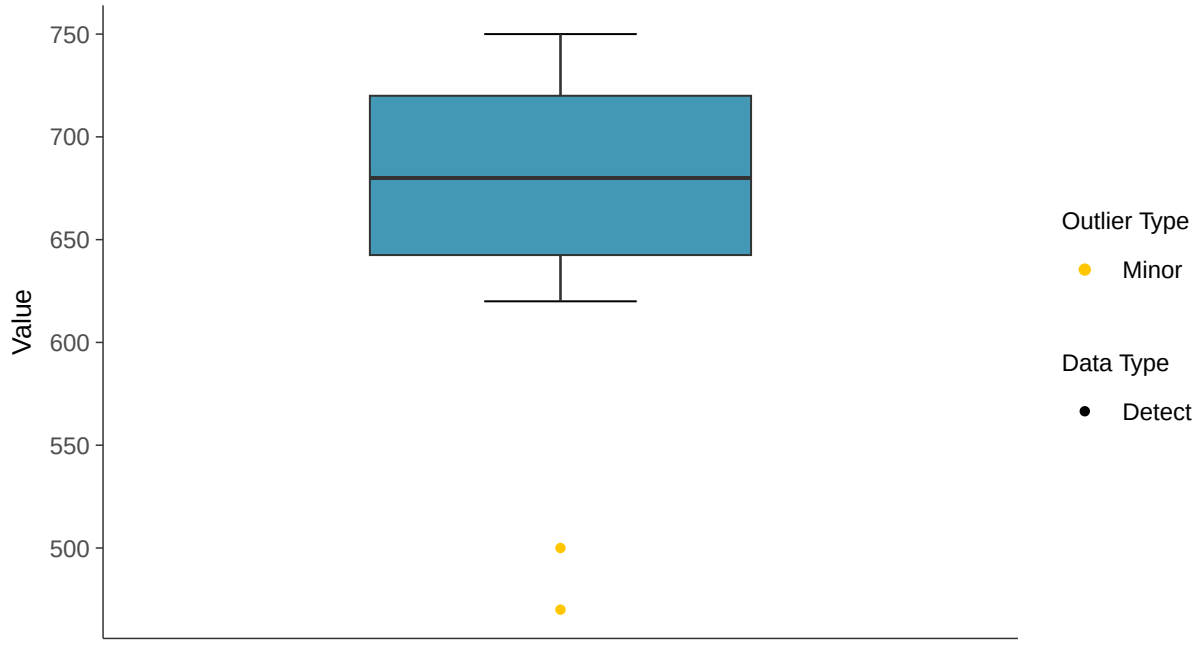
Histogram

Total Dissolved Solids, MW-07 (mg/L)



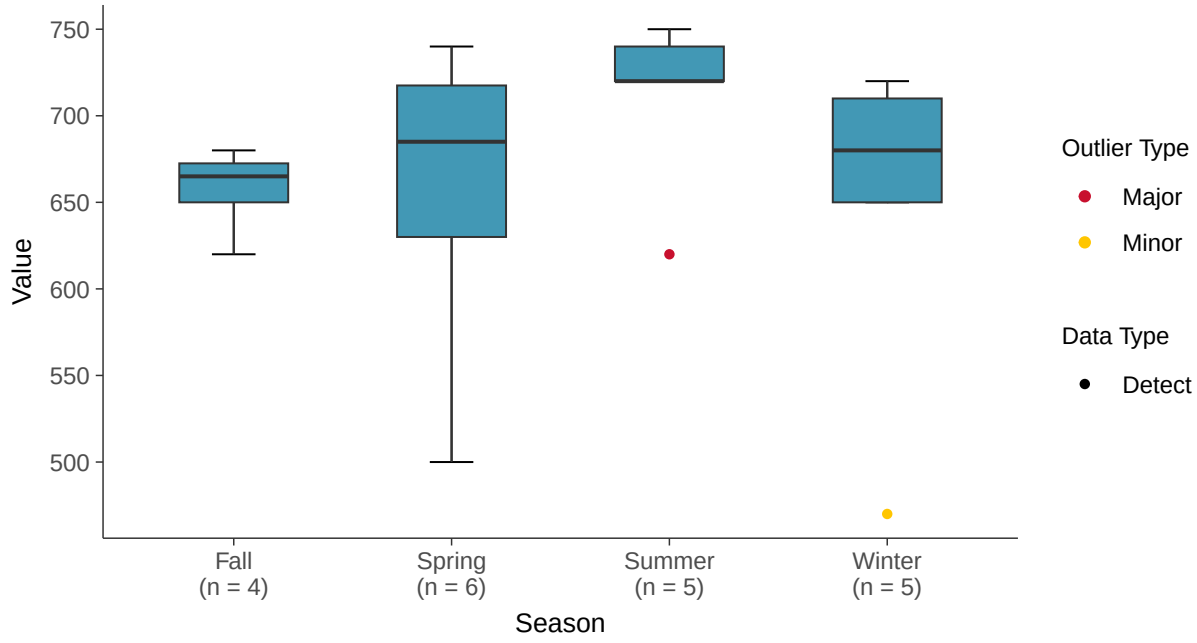
Boxplot

Total Dissolved Solids, MW-07 (mg/L)



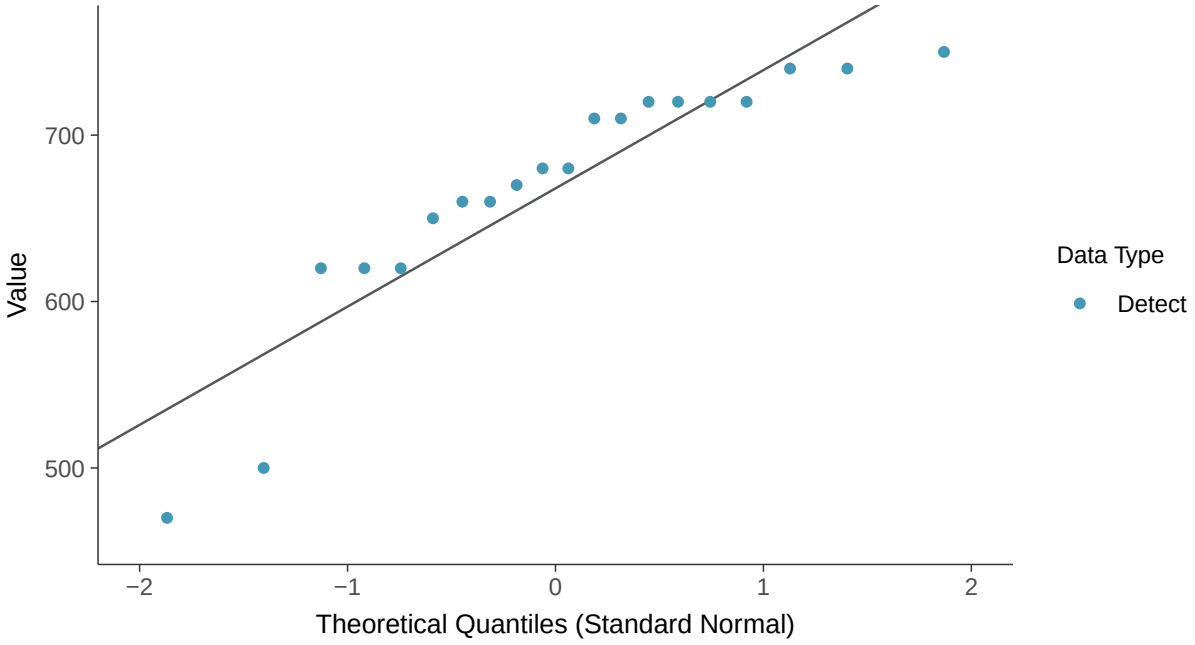
Boxplot by Season

Total Dissolved Solids, MW-07 (mg/L)



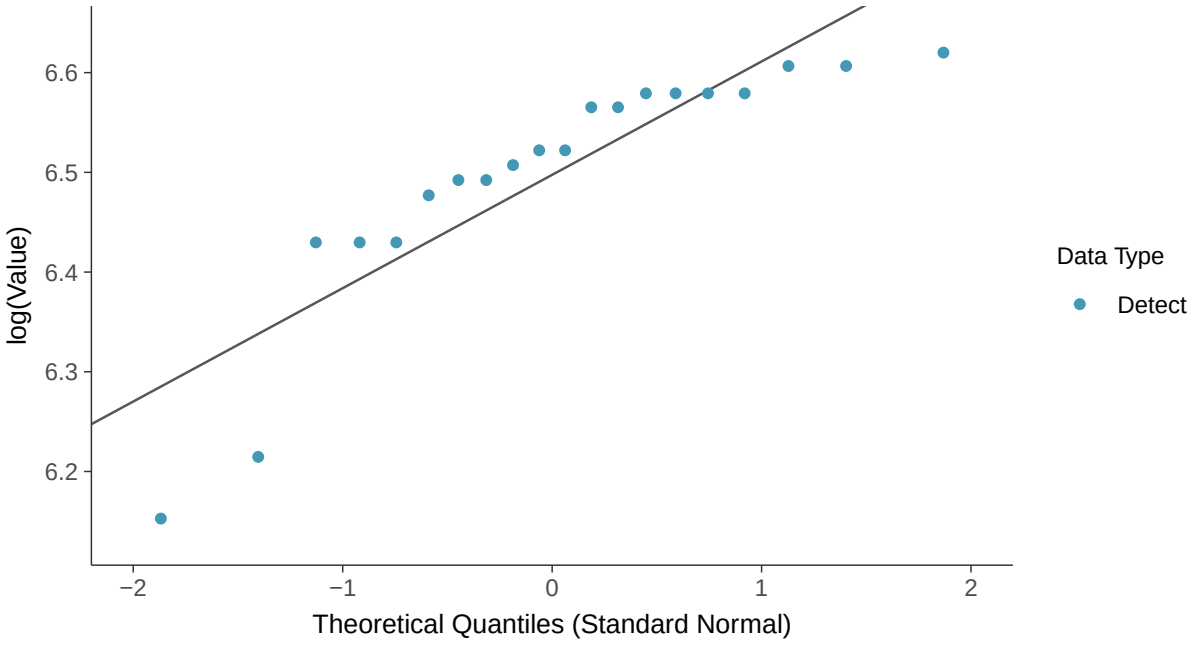
Normal Q-Q plot

Total Dissolved Solids, MW-07 (mg/L)



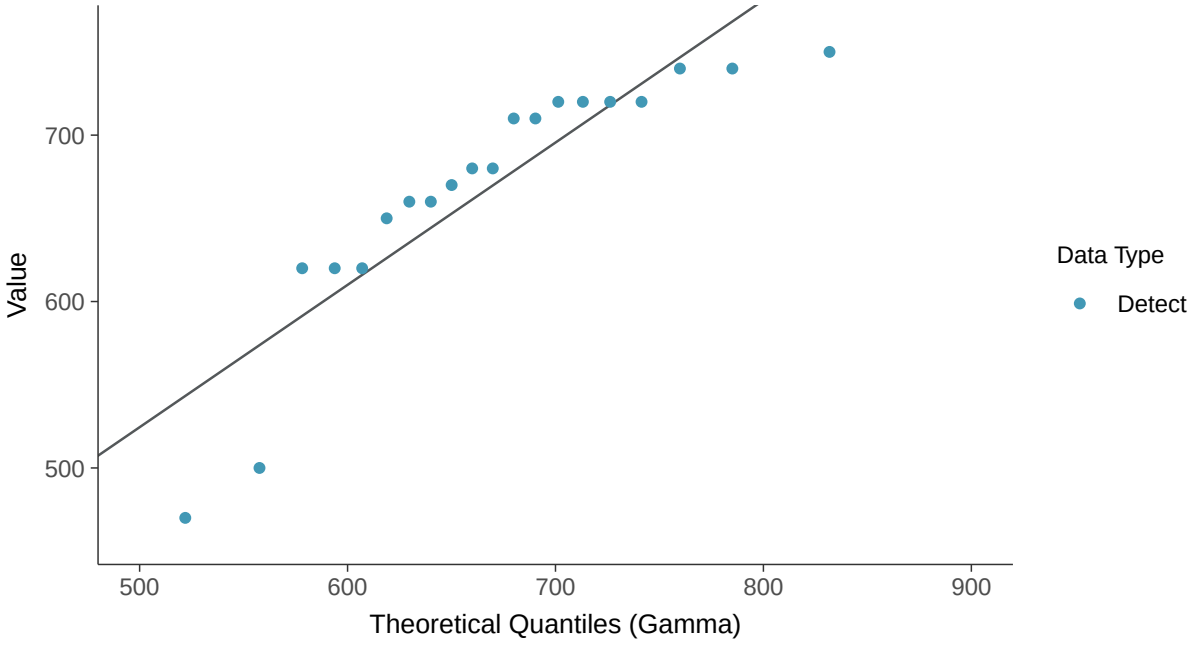
Lognormal Q-Q plot

Total Dissolved Solids, MW-07 (mg/L)



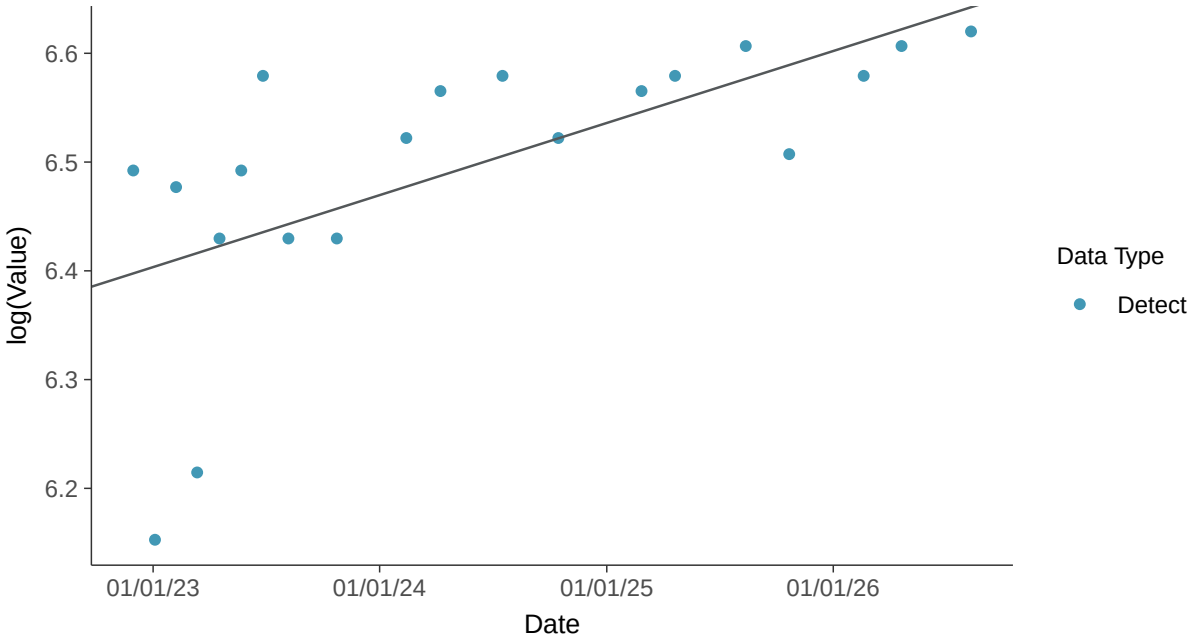
Gamma Q-Q plot

Total Dissolved Solids, MW-07 (mg/L)



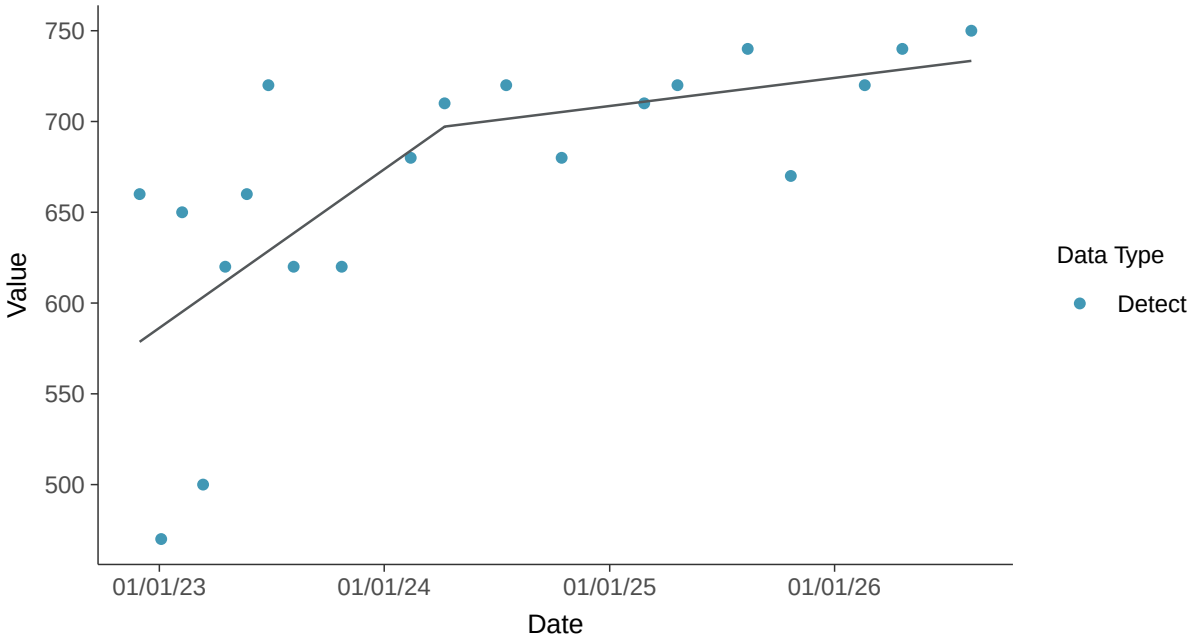
Trend Regression: Lognormal MLE

Total Dissolved Solids, MW-07 (mg/L)



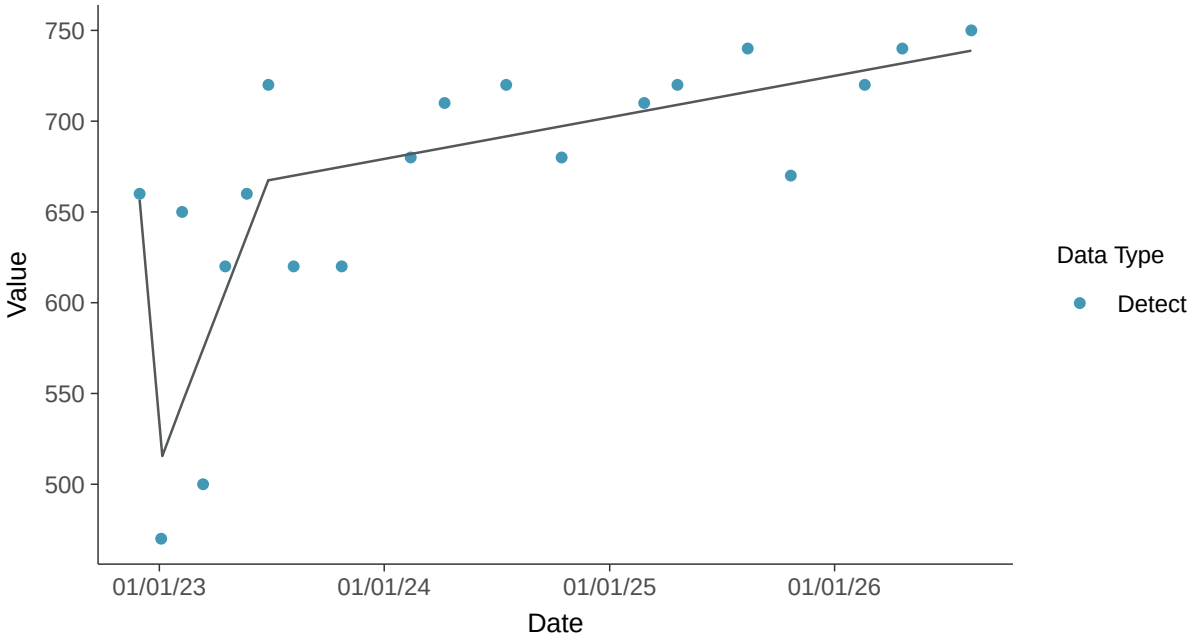
Trend Regression: Piecewise Linear-Linear

Total Dissolved Solids, MW-07 (mg/L)



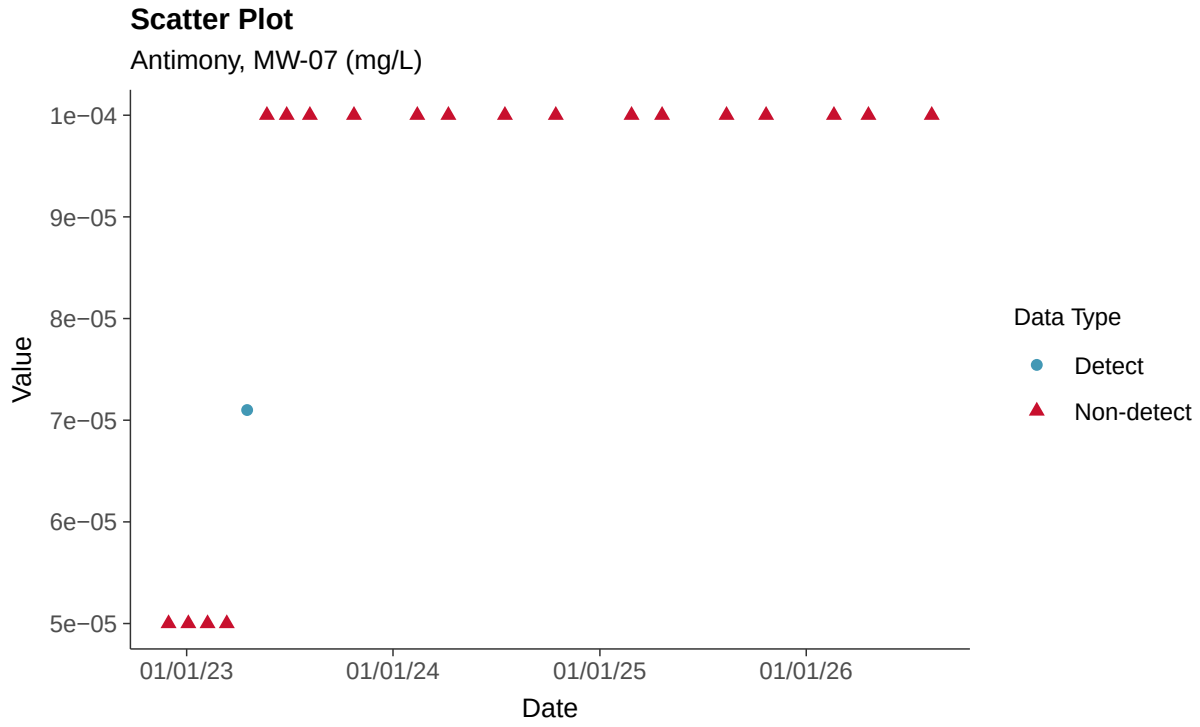
Trend Regression: Piecewise Linear-Linear-Linear

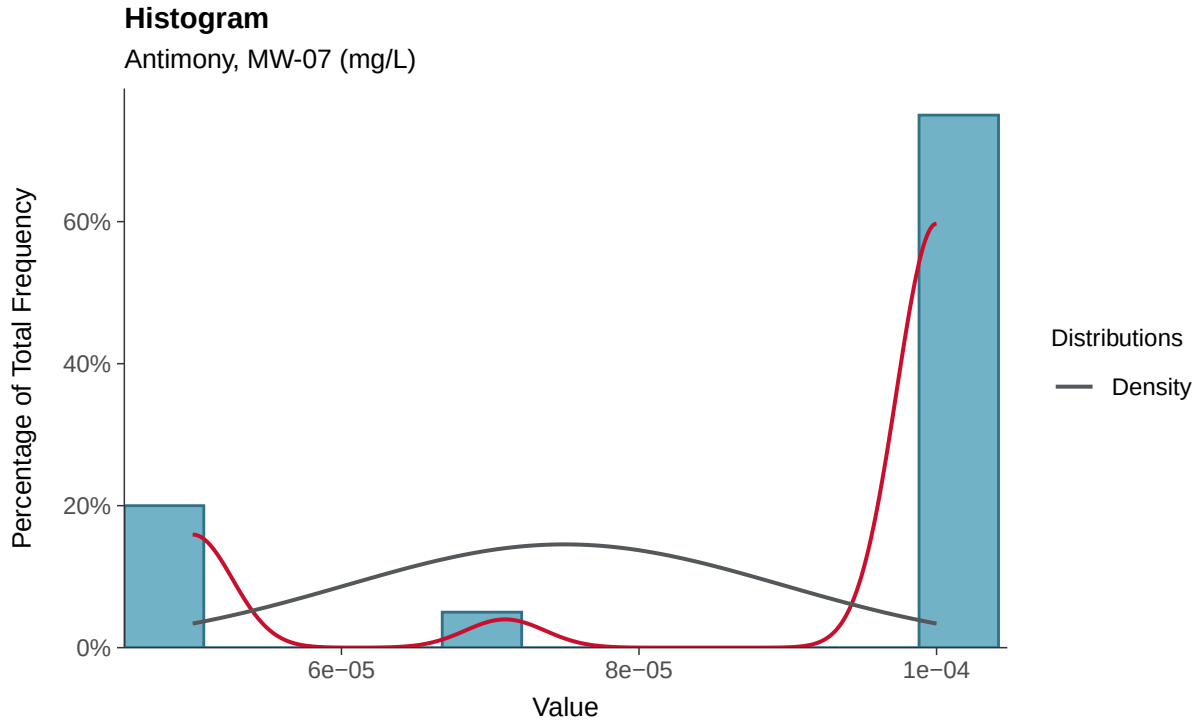
Total Dissolved Solids, MW-07 (mg/L)



Appendix IV: Antimony, MW-07

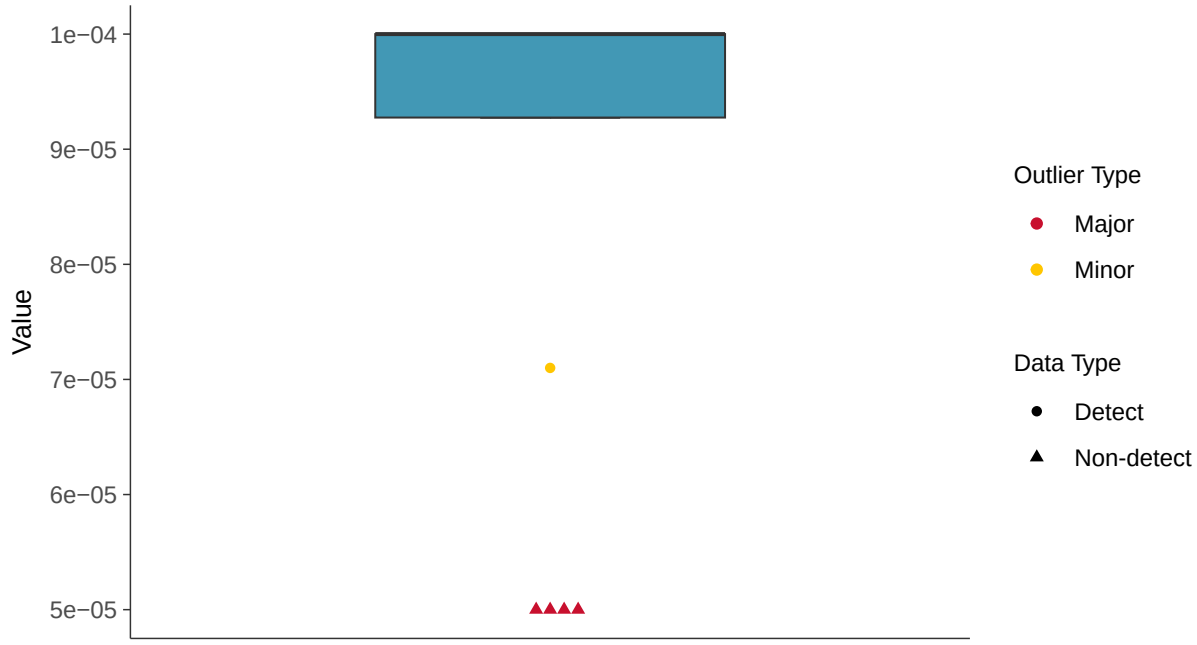
ID: 17_1_4_101





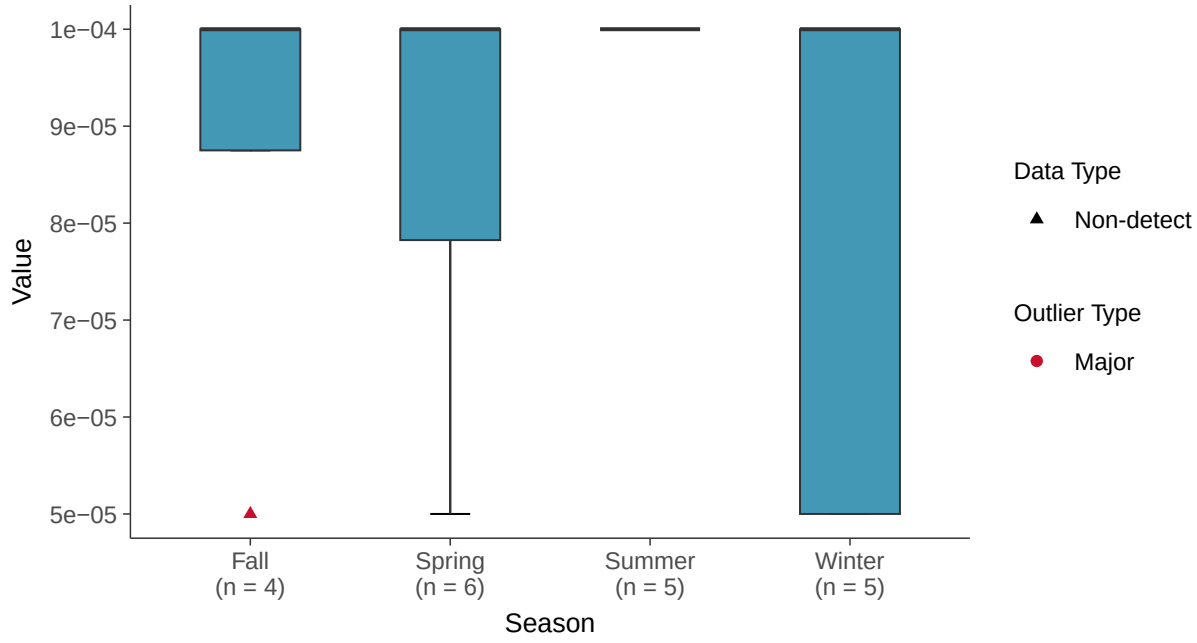
Boxplot

Antimony, MW-07 (mg/L)



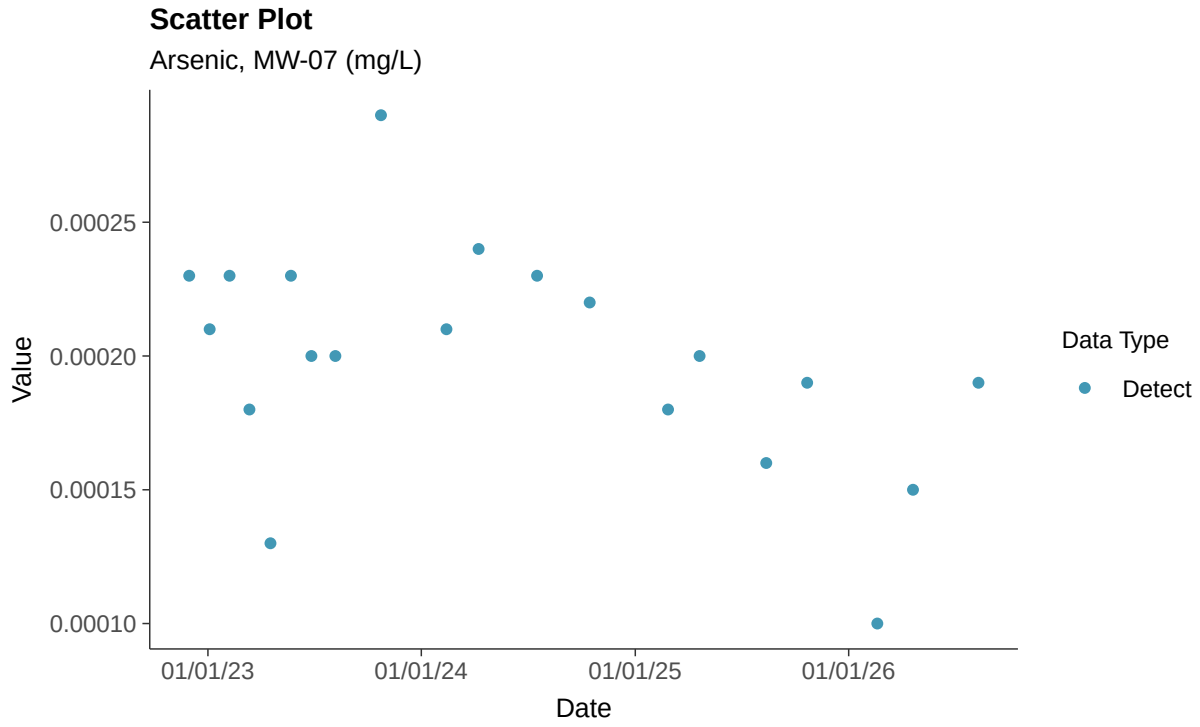
Boxplot by Season

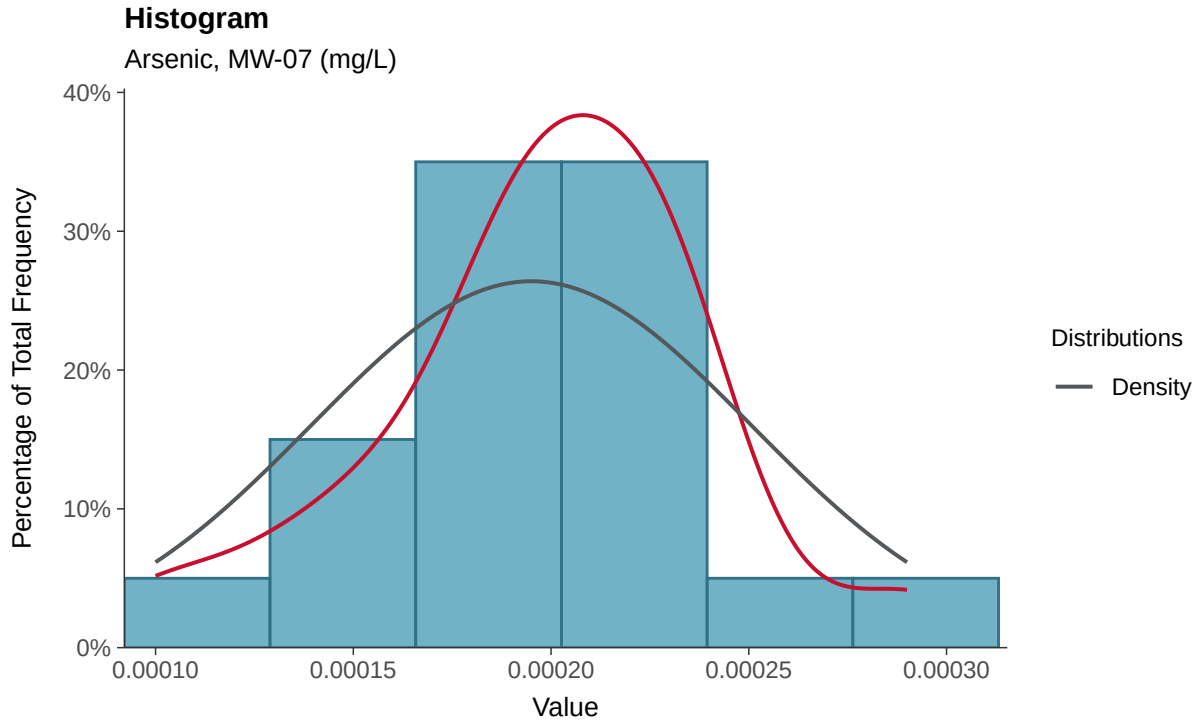
Antimony, MW-07 (mg/L)



Appendix IV: Arsenic, MW-07

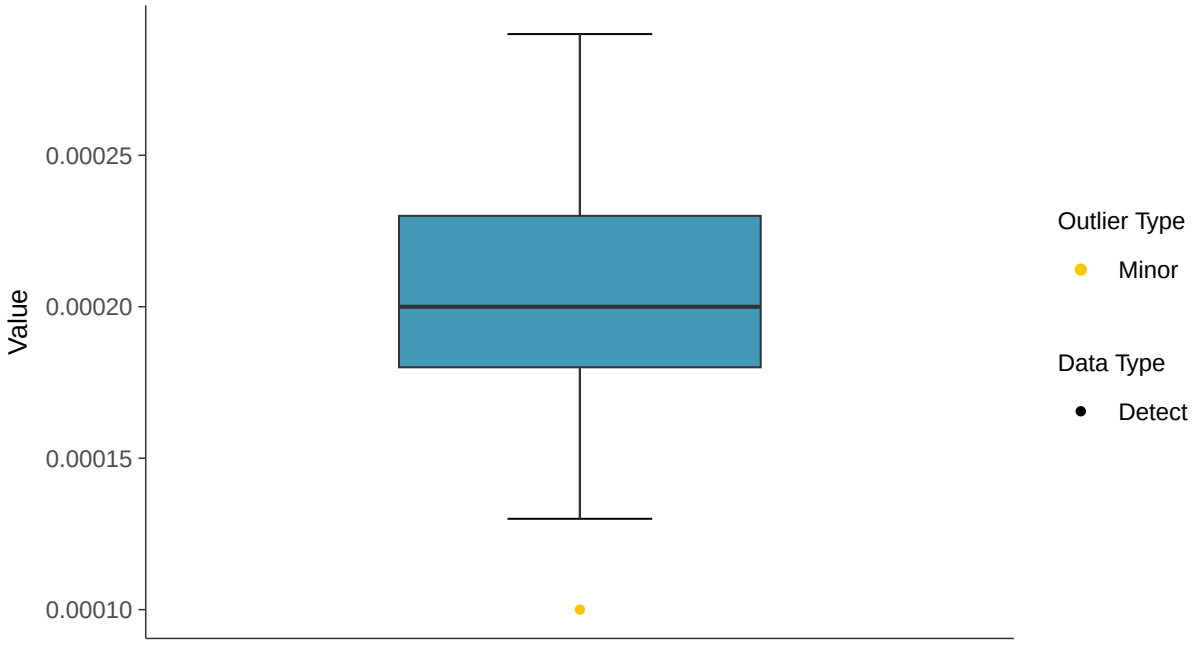
ID: 17_1_4_102





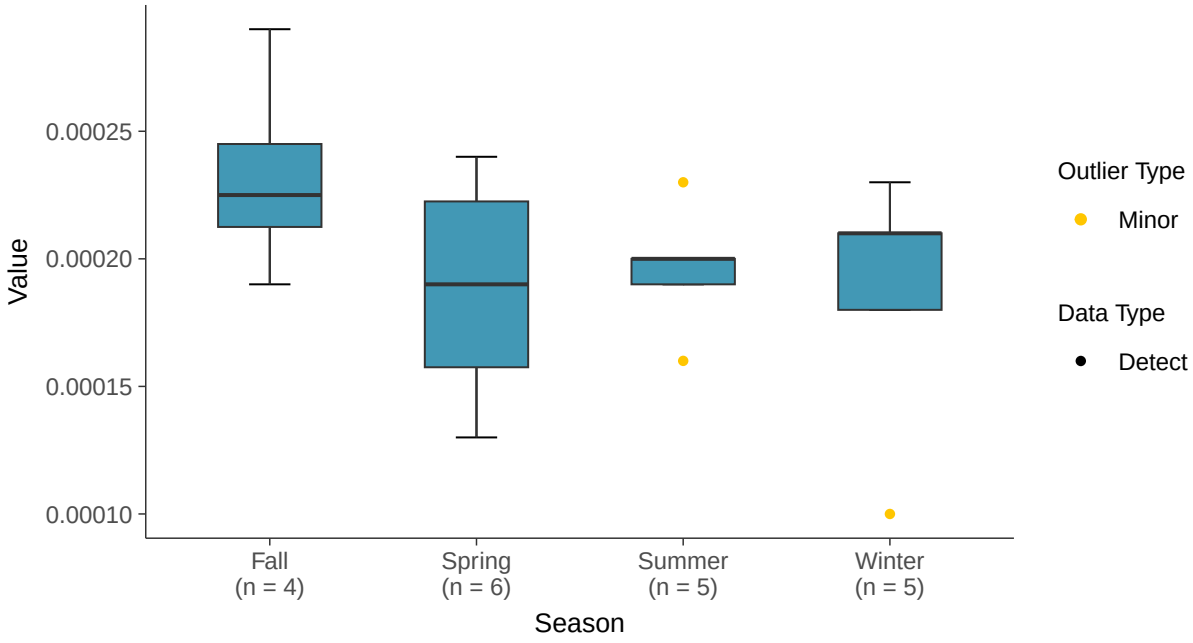
Boxplot

Arsenic, MW-07 (mg/L)



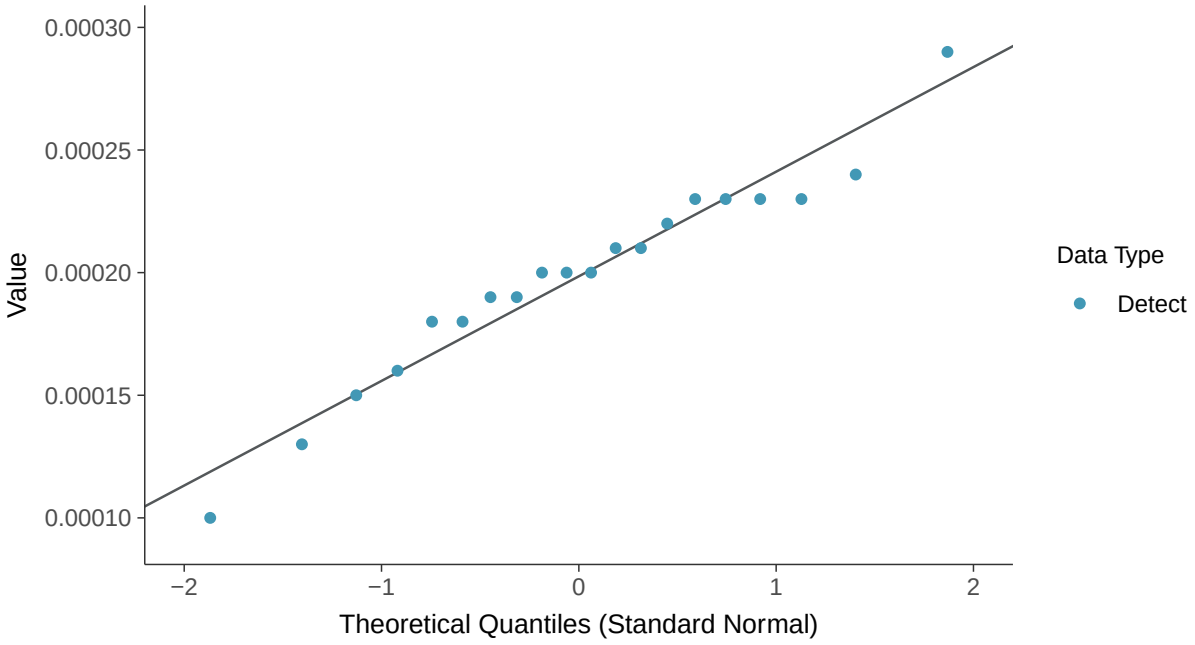
Boxplot by Season

Arsenic, MW-07 (mg/L)



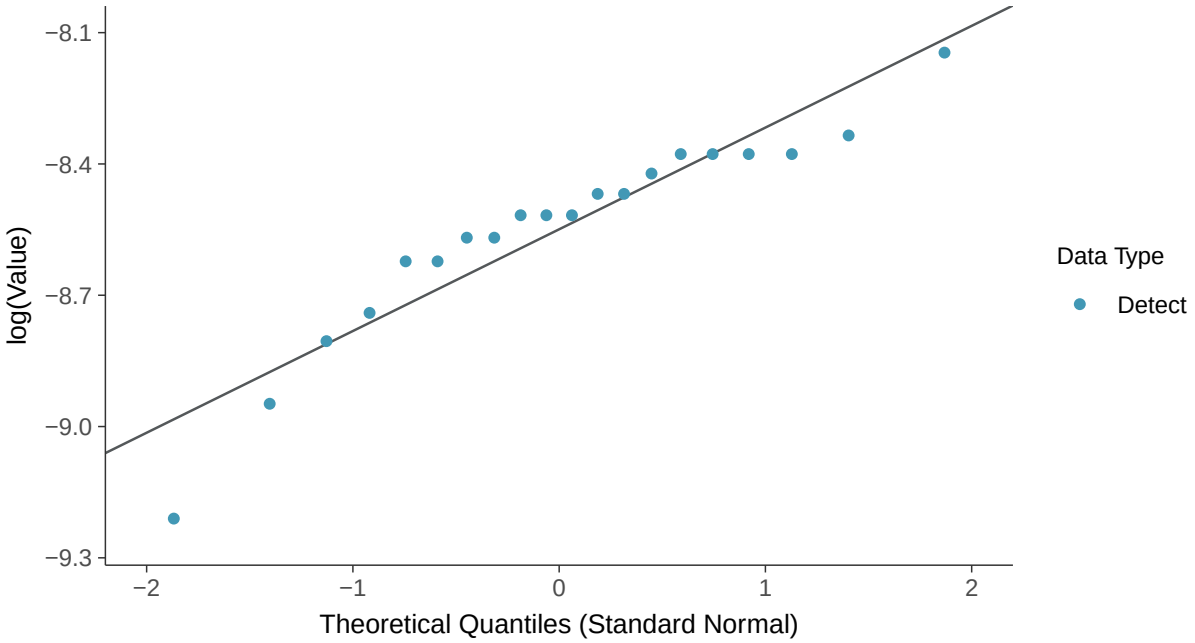
Normal Q-Q plot

Arsenic, MW-07 (mg/L)



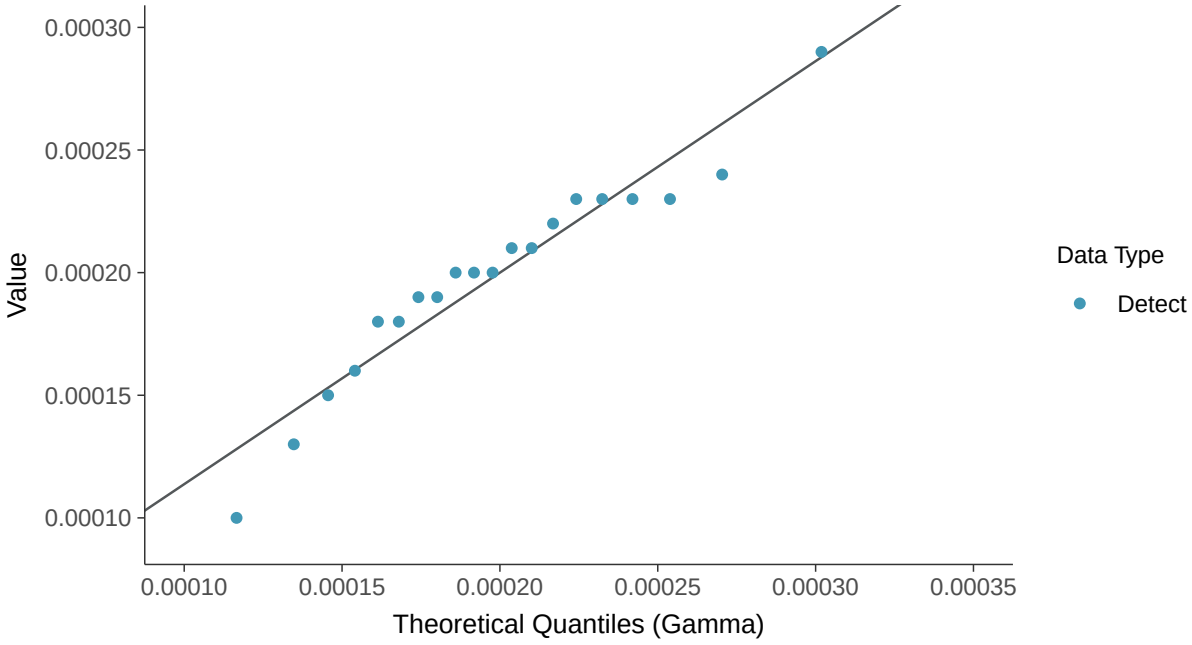
Lognormal Q-Q plot

Arsenic, MW-07 (mg/L)



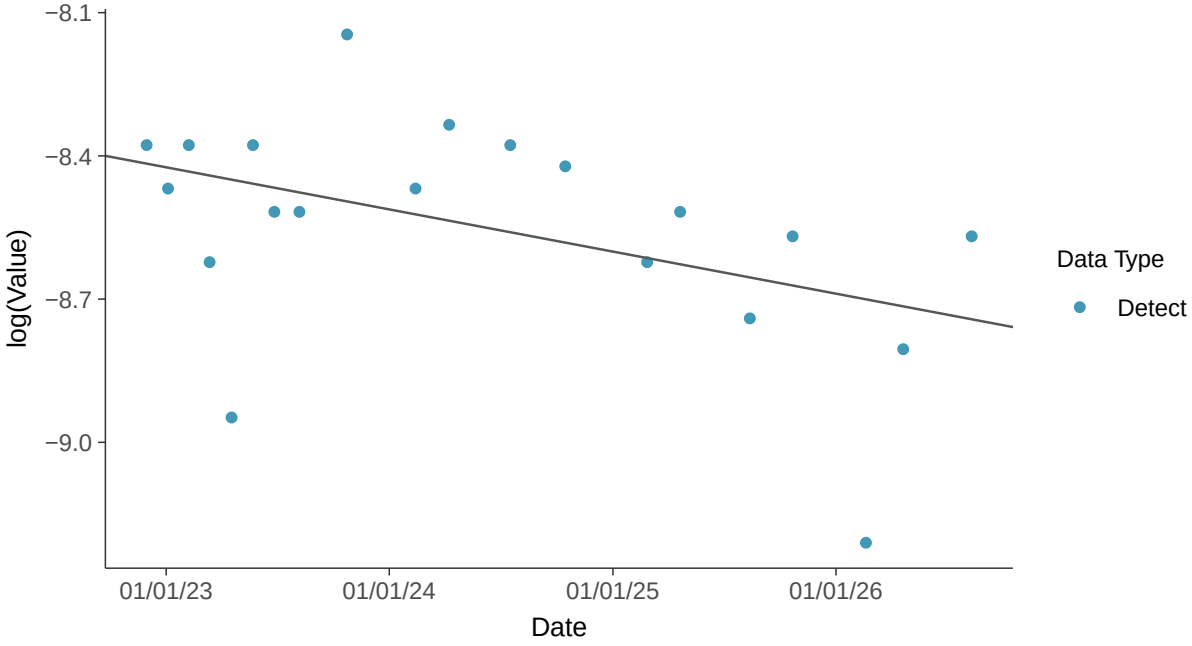
Gamma Q-Q plot

Arsenic, MW-07 (mg/L)



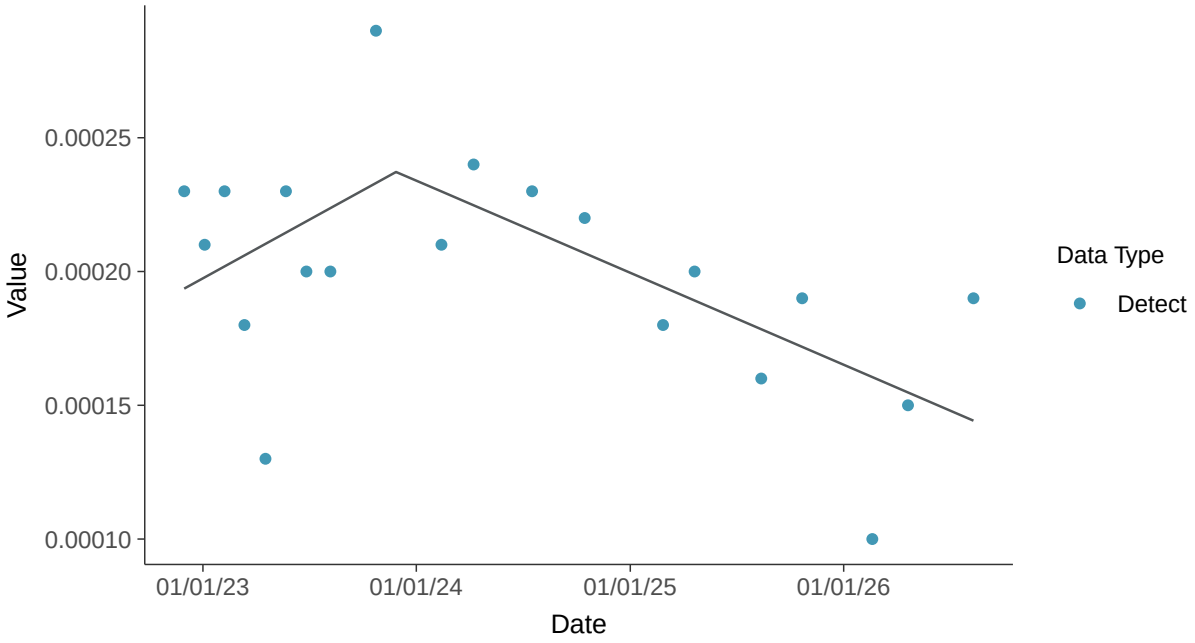
Trend Regression: Lognormal MLE

Arsenic, MW-07 (mg/L)



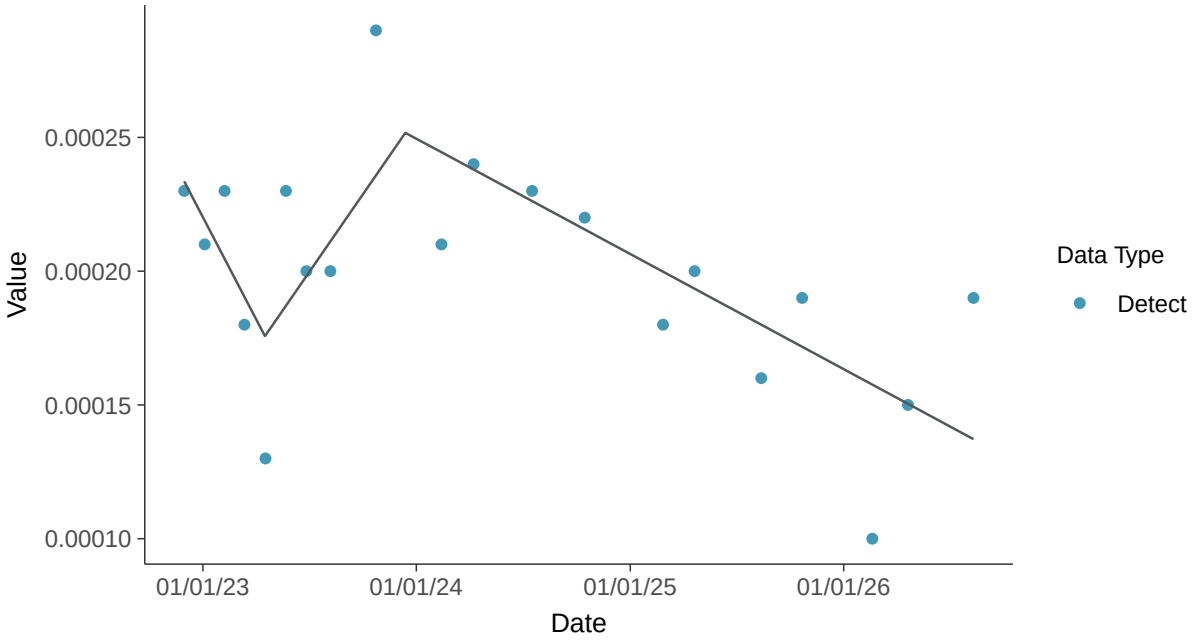
Trend Regression: Piecewise Linear-Linear

Arsenic, MW-07 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Arsenic, MW-07 (mg/L)

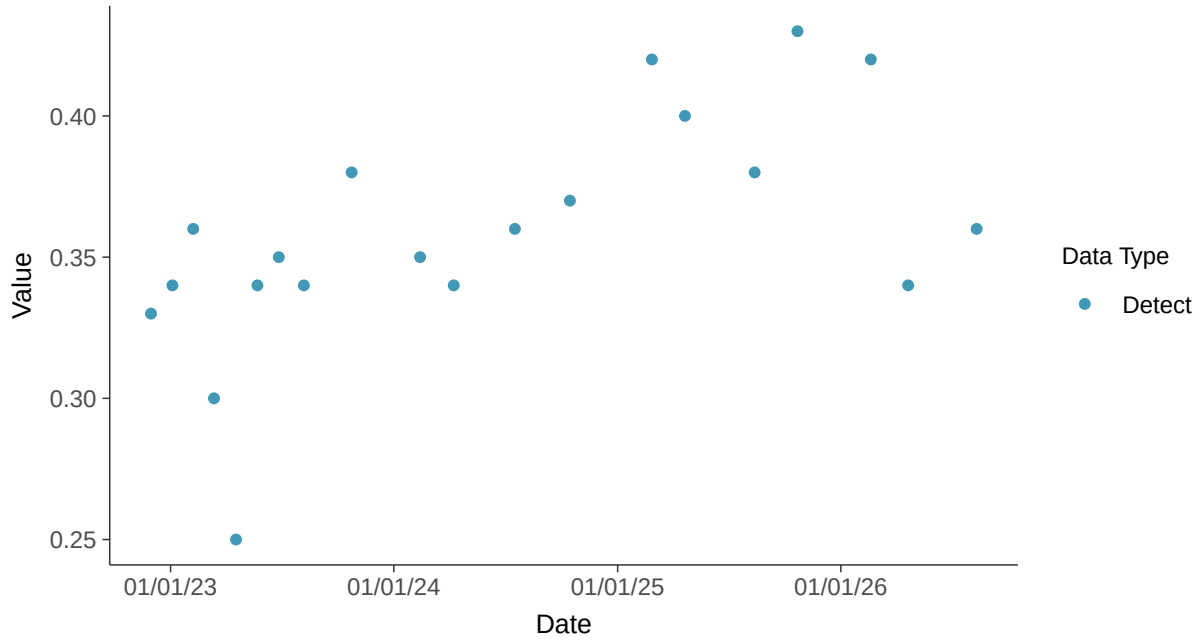


Appendix IV: Barium, MW-07

ID: 17_1_4_103

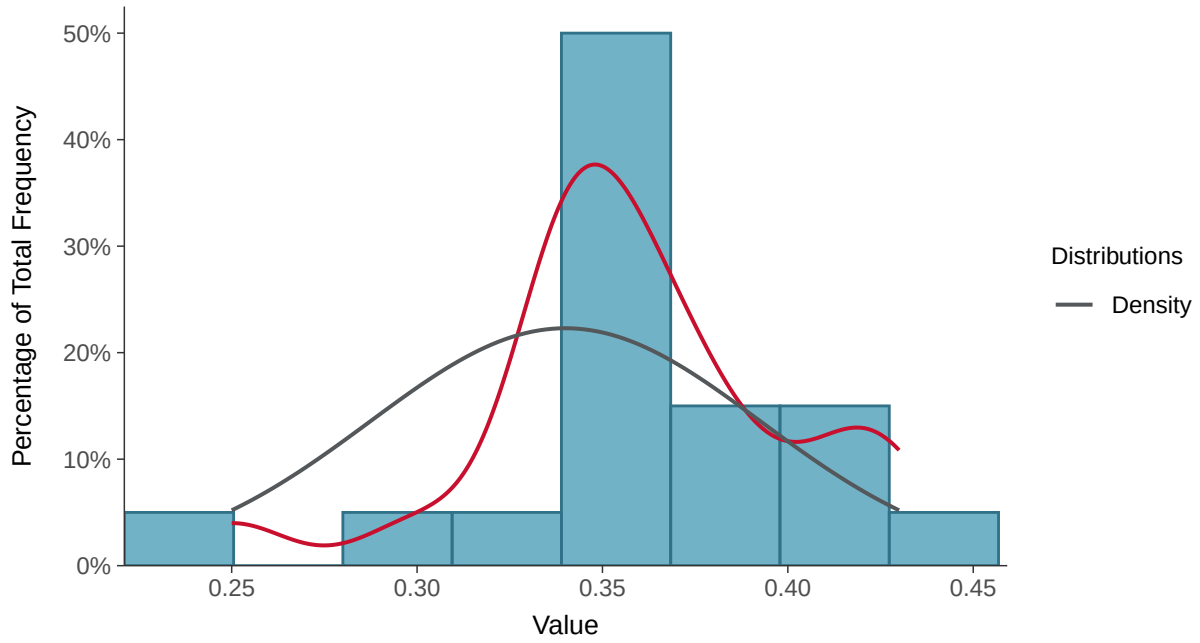
Scatter Plot

Barium, MW-07 (mg/L)



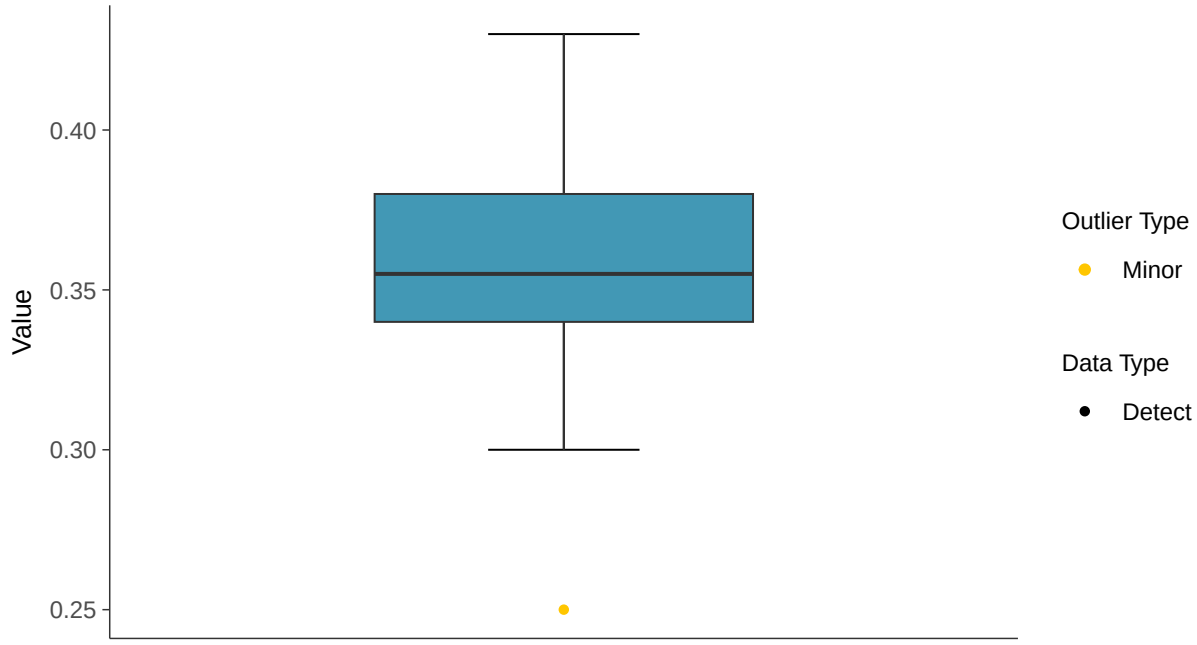
Histogram

Barium, MW-07 (mg/L)



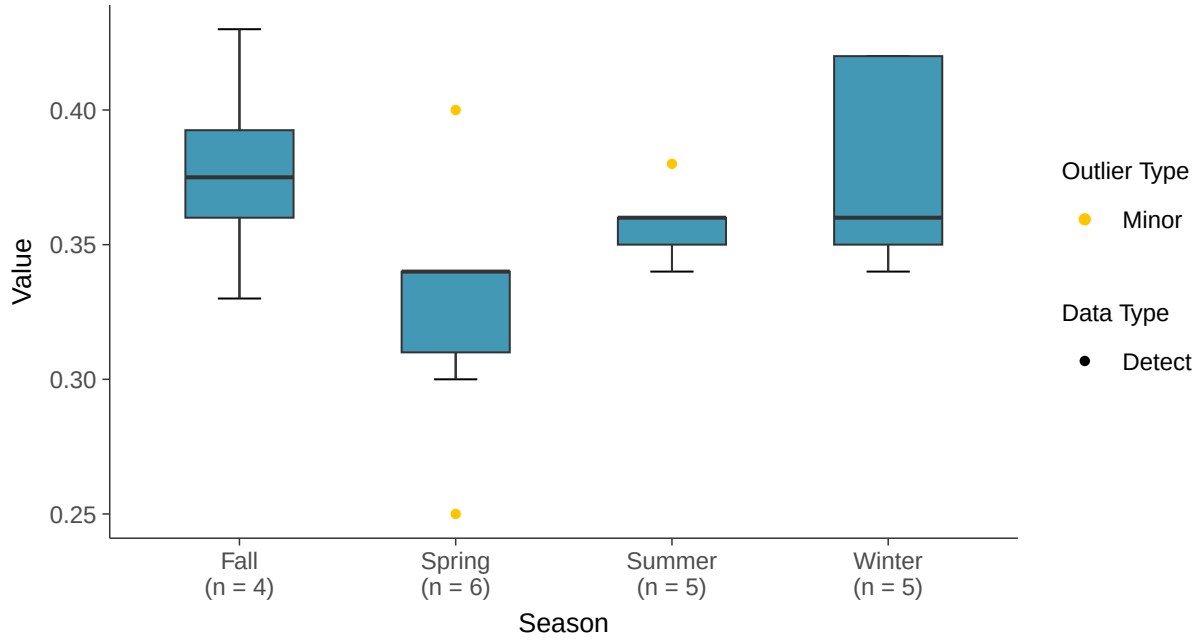
Boxplot

Barium, MW-07 (mg/L)



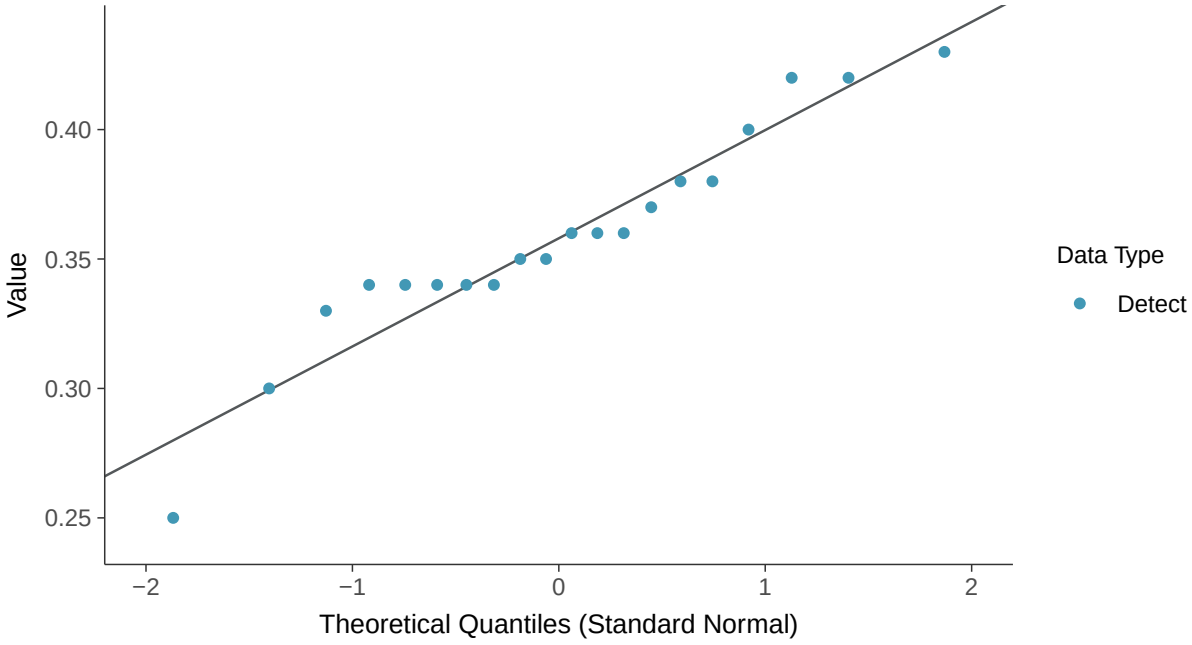
Boxplot by Season

Barium, MW-07 (mg/L)



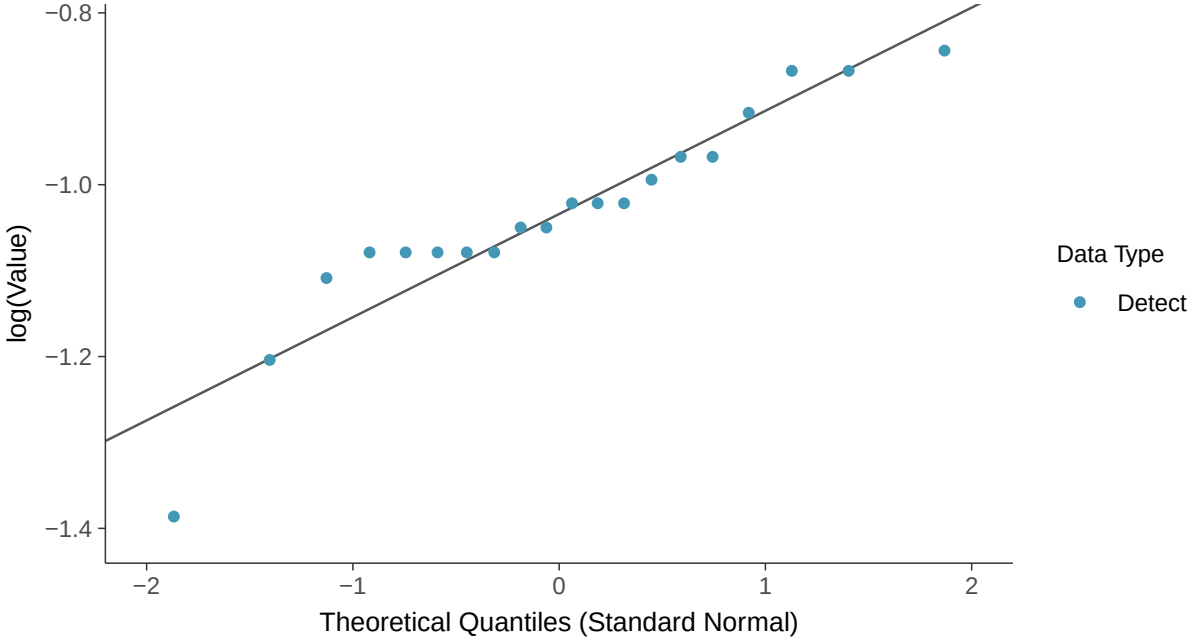
Normal Q-Q plot

Barium, MW-07 (mg/L)



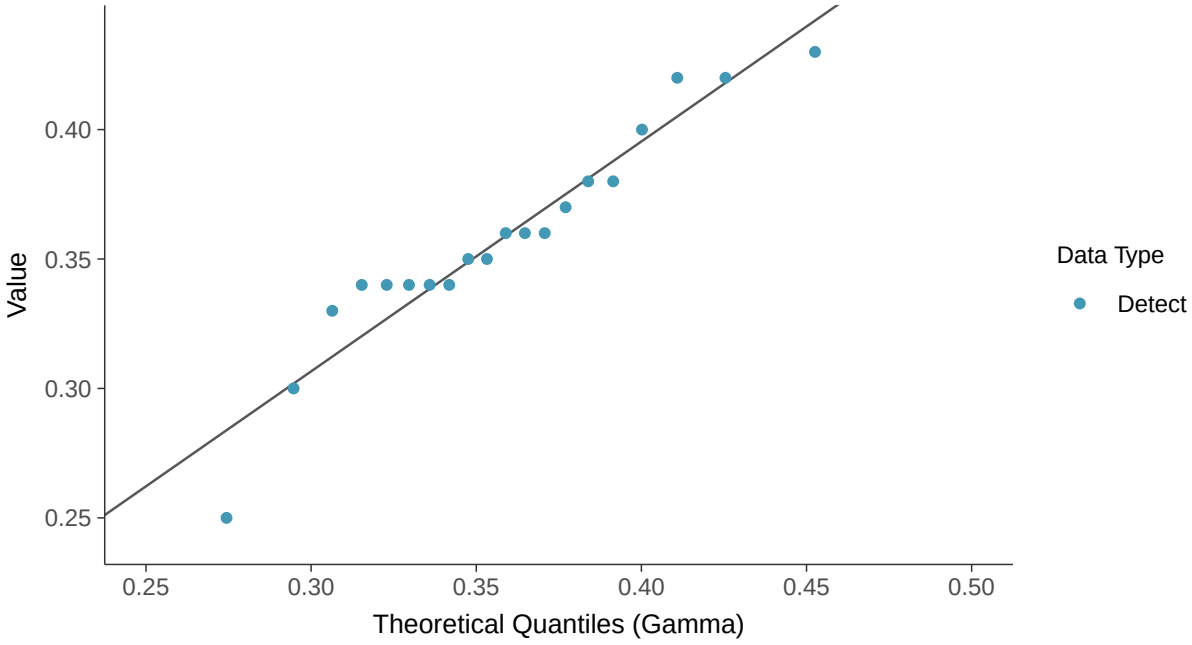
Lognormal Q-Q plot

Barium, MW-07 (mg/L)



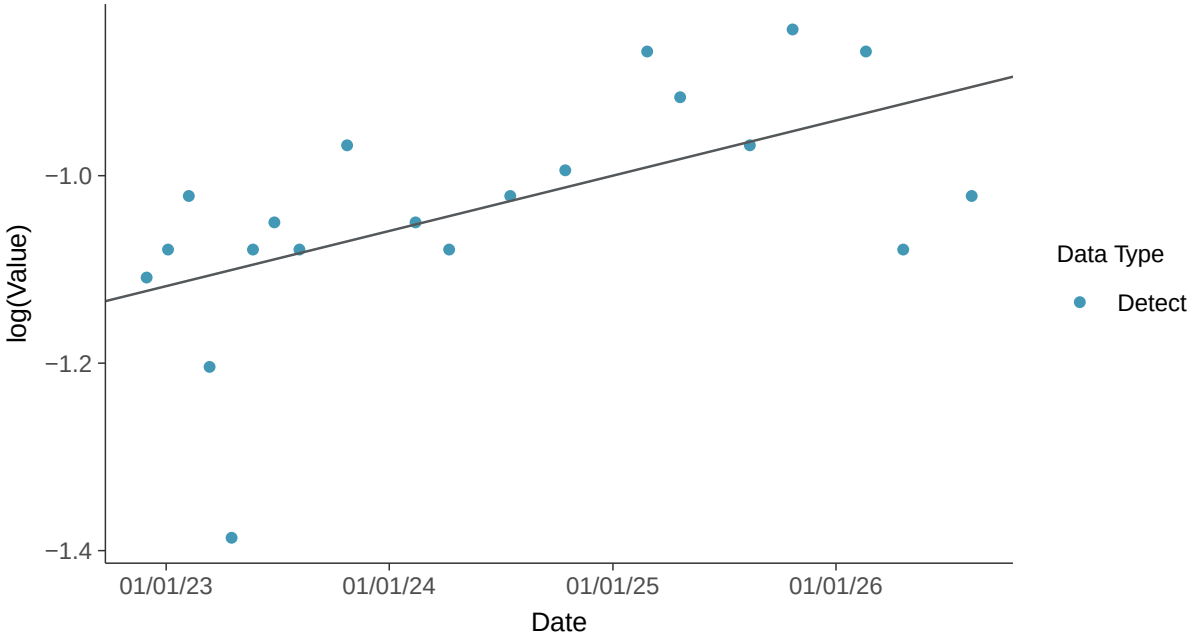
Gamma Q-Q plot

Barium, MW-07 (mg/L)



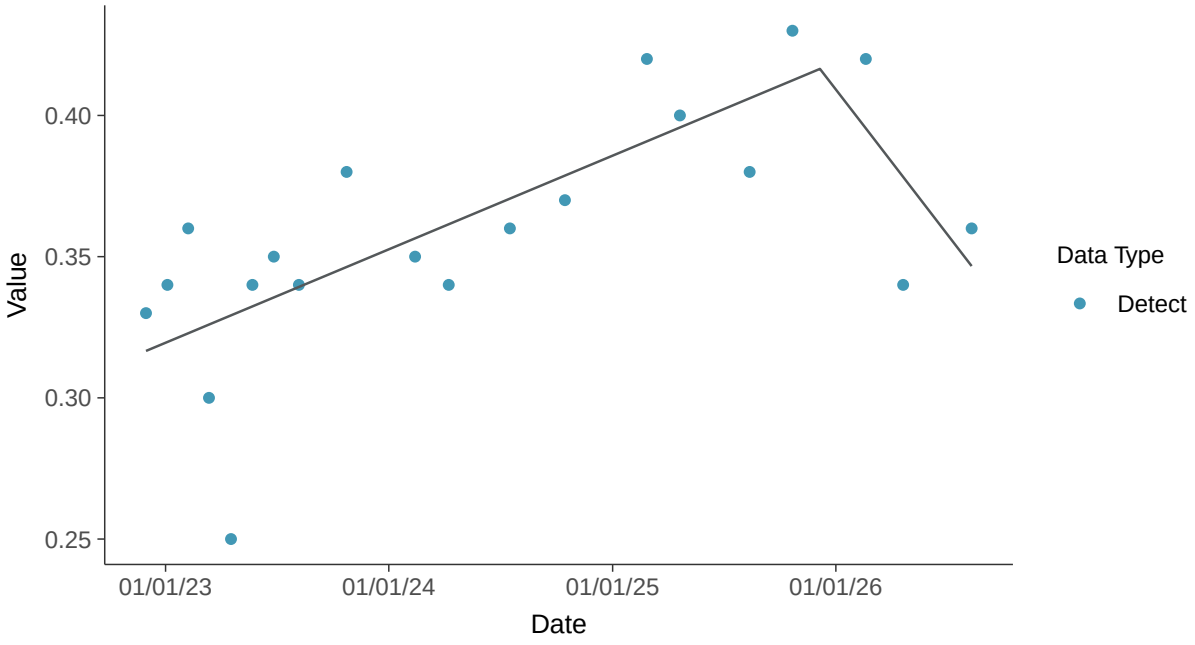
Trend Regression: Lognormal MLE

Barium, MW-07 (mg/L)



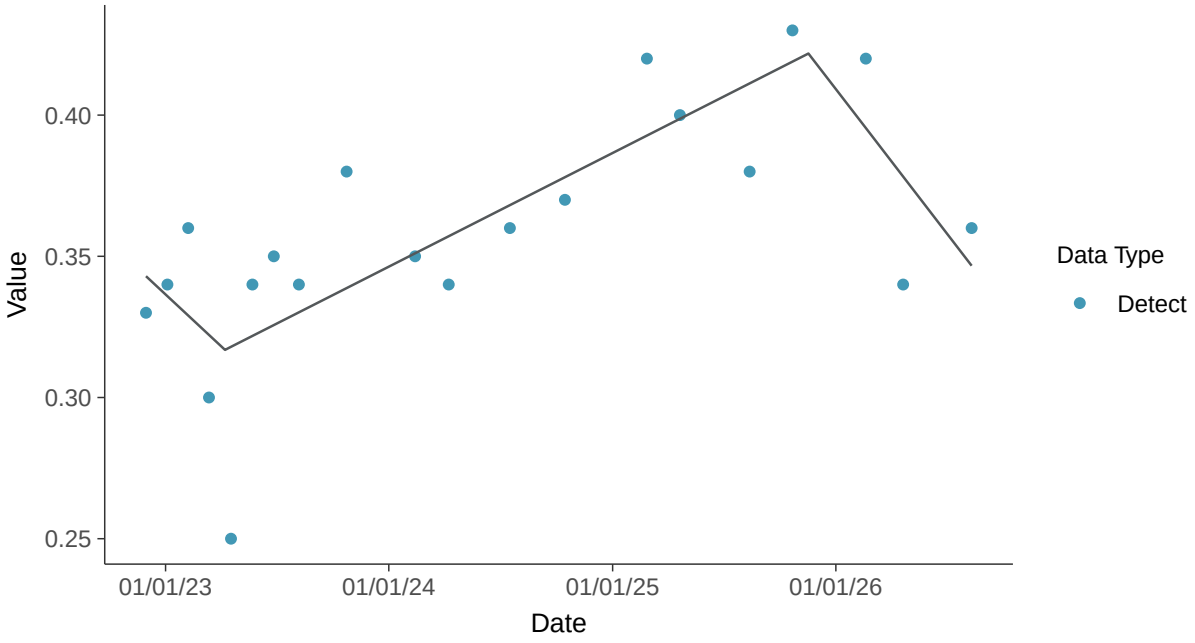
Trend Regression: Piecewise Linear-Linear

Barium, MW-07 (mg/L)



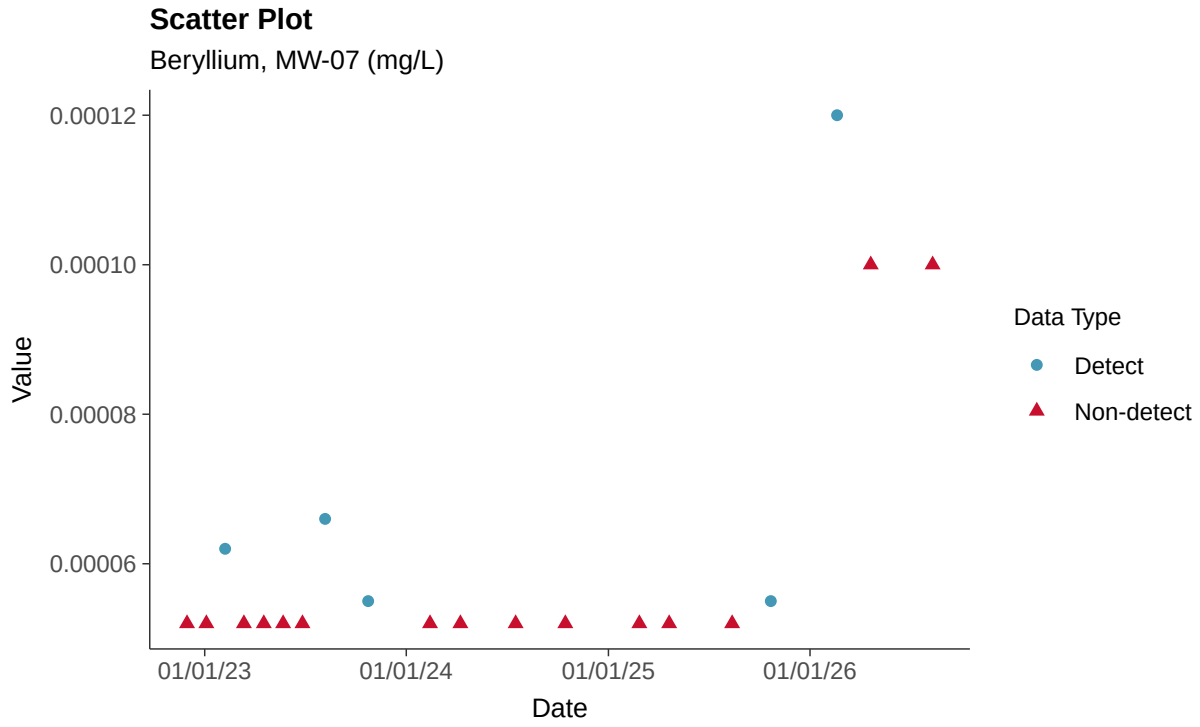
Trend Regression: Piecewise Linear-Linear-Linear

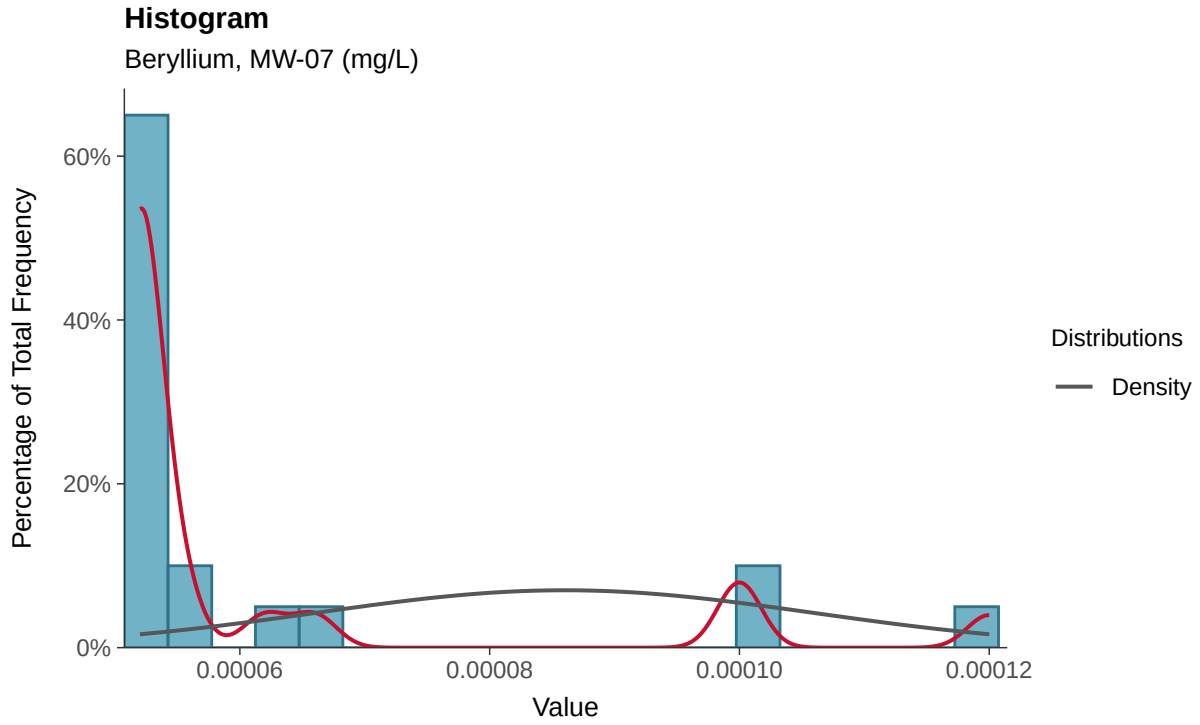
Barium, MW-07 (mg/L)



Appendix IV: Beryllium, MW-07

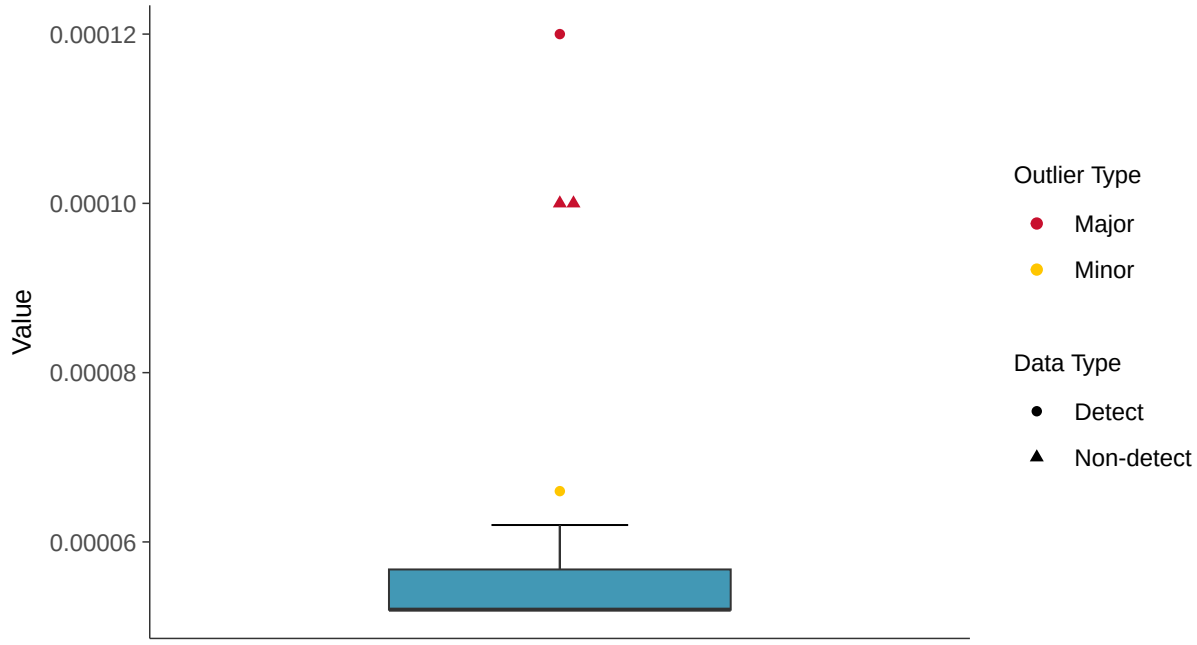
ID: 17_1_4_104





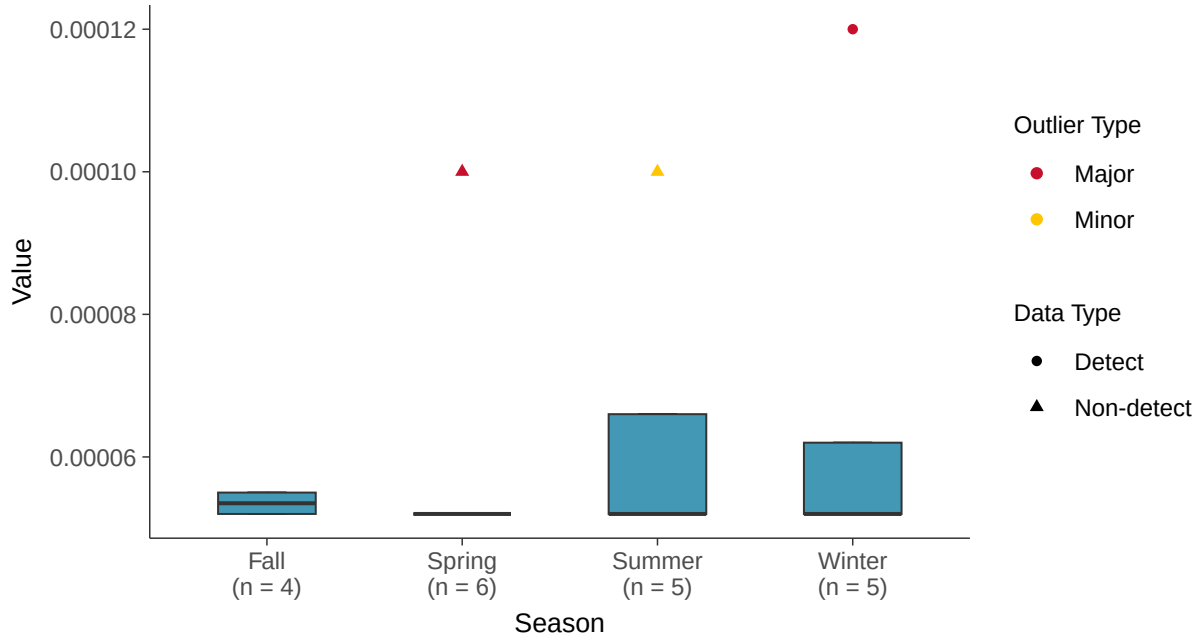
Boxplot

Beryllium, MW-07 (mg/L)



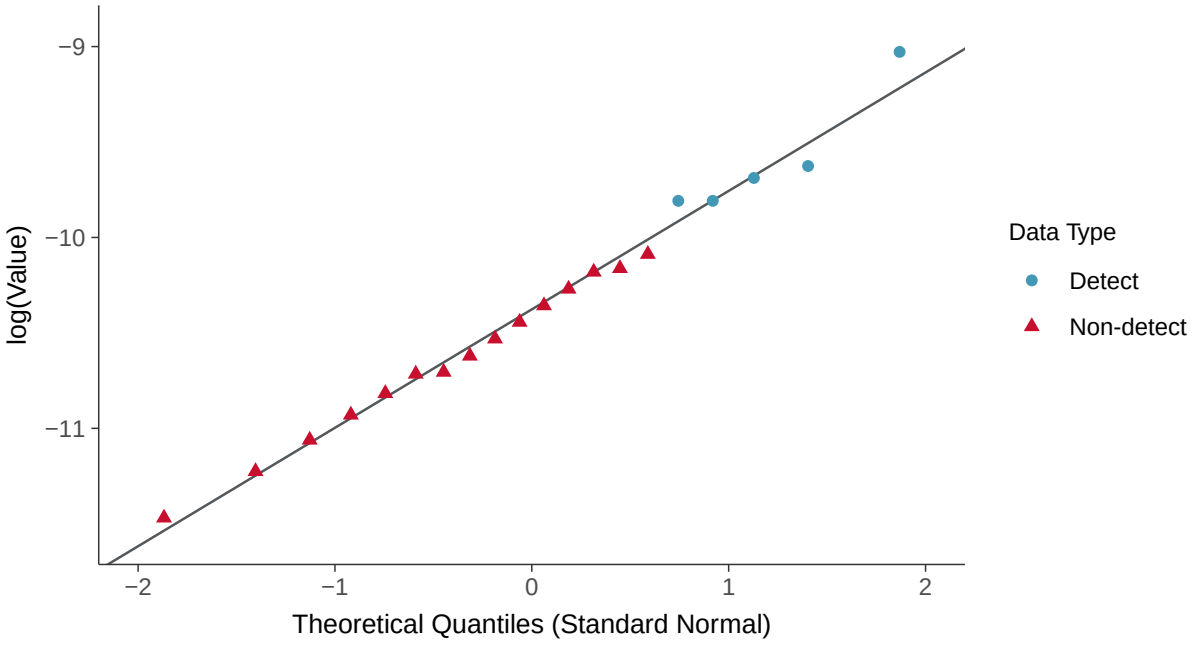
Boxplot by Season

Beryllium, MW-07 (mg/L)



Lognormal Q-Q plot using ROS Imputed Estimates

Beryllium, MW-07 (mg/L)

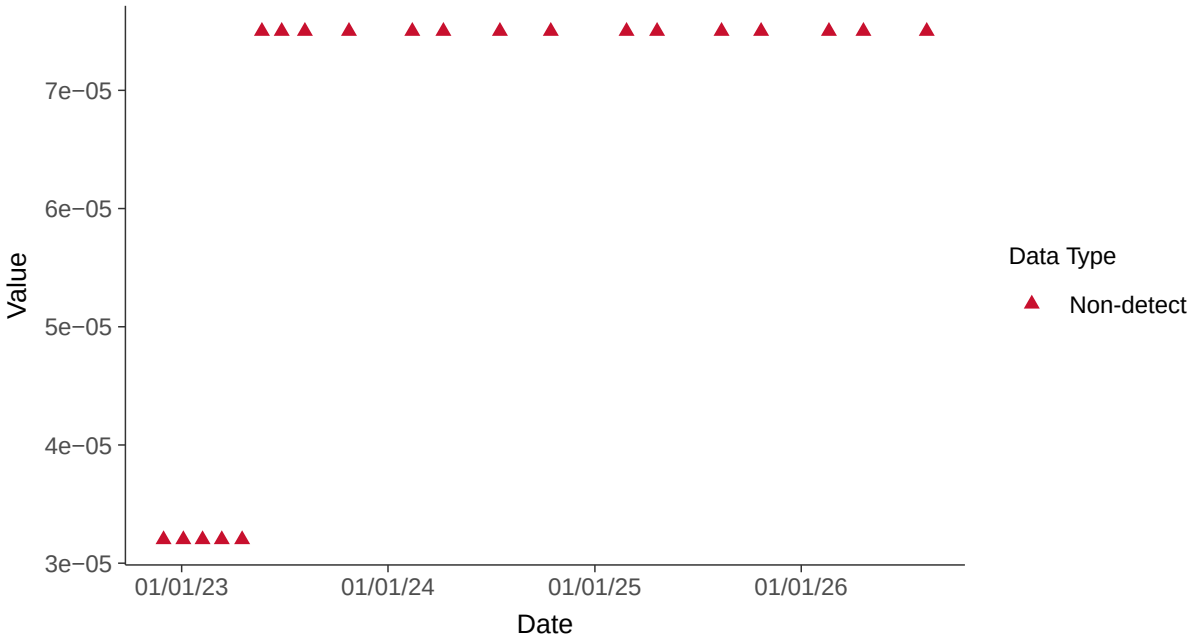


Appendix IV: Cadmium, MW-07

ID: 17_1_4_106

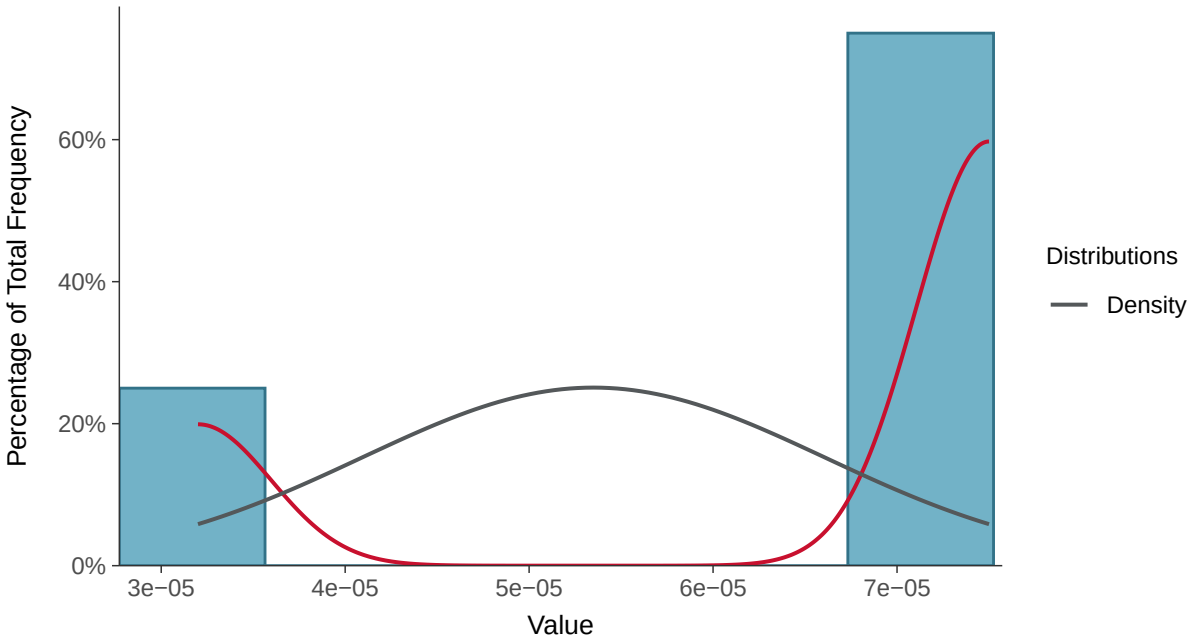
Scatter Plot

Cadmium, MW-07 (mg/L)



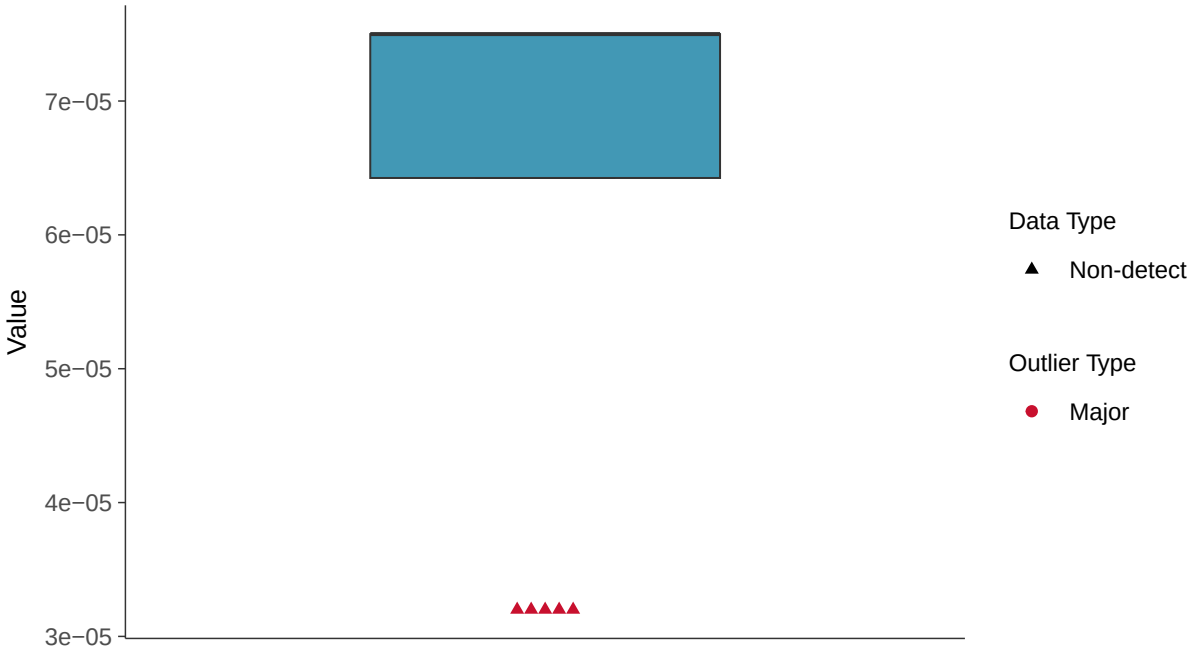
Histogram

Cadmium, MW-07 (mg/L)



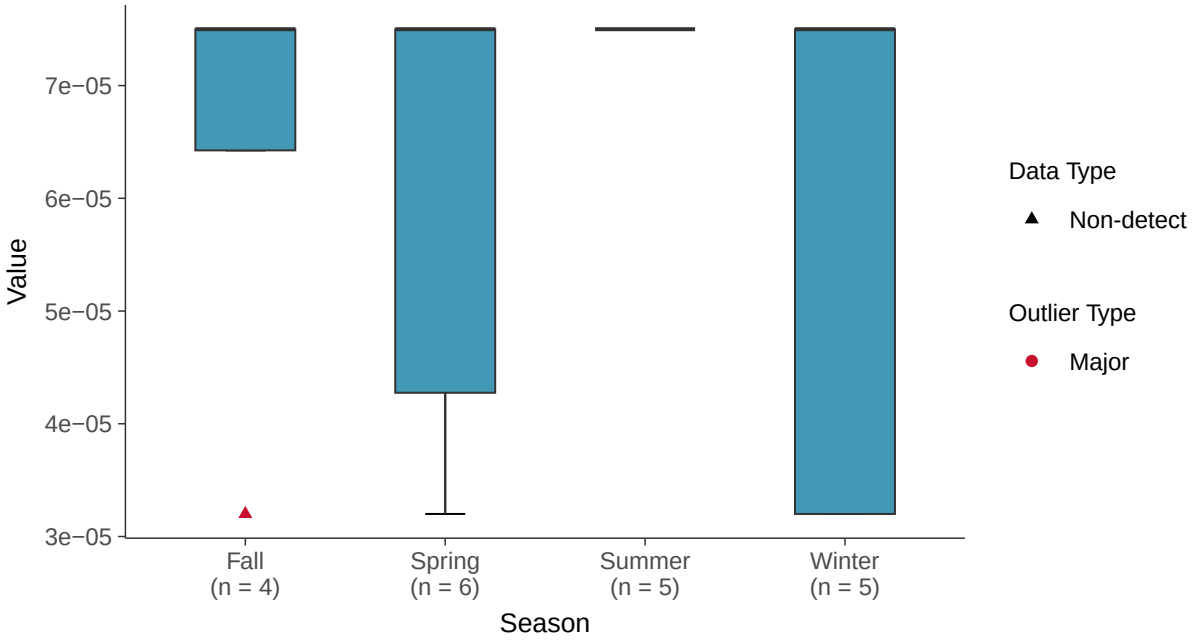
Boxplot

Cadmium, MW-07 (mg/L)



Boxplot by Season

Cadmium, MW-07 (mg/L)

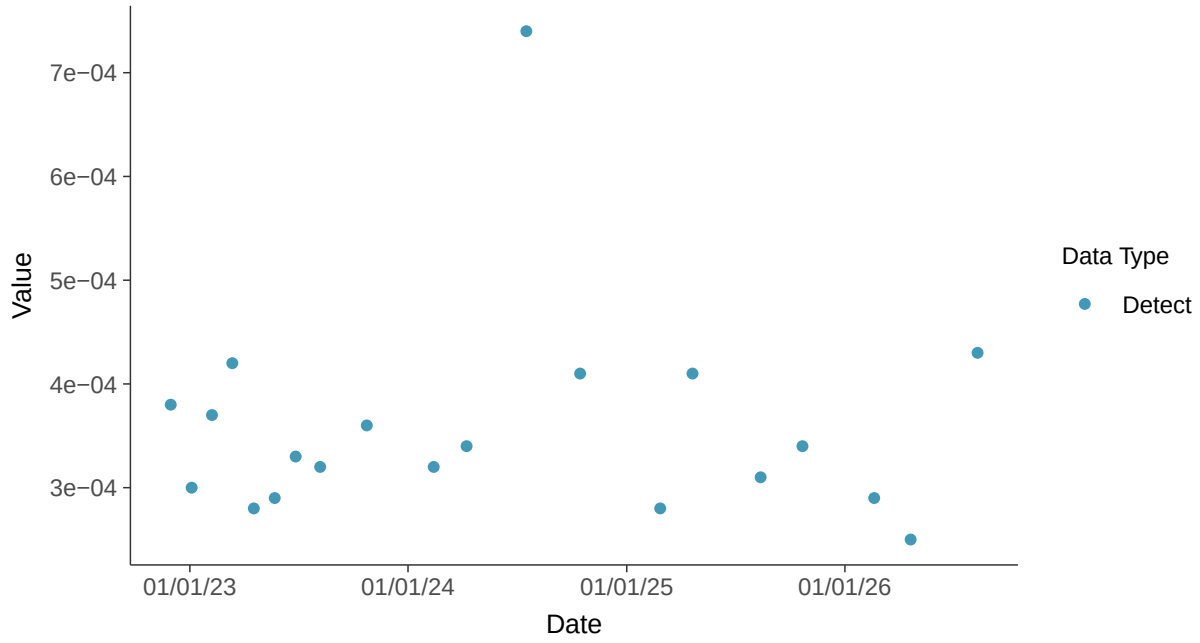


Appendix IV: Chromium, Total, MW-07

ID: 17_1_4_109

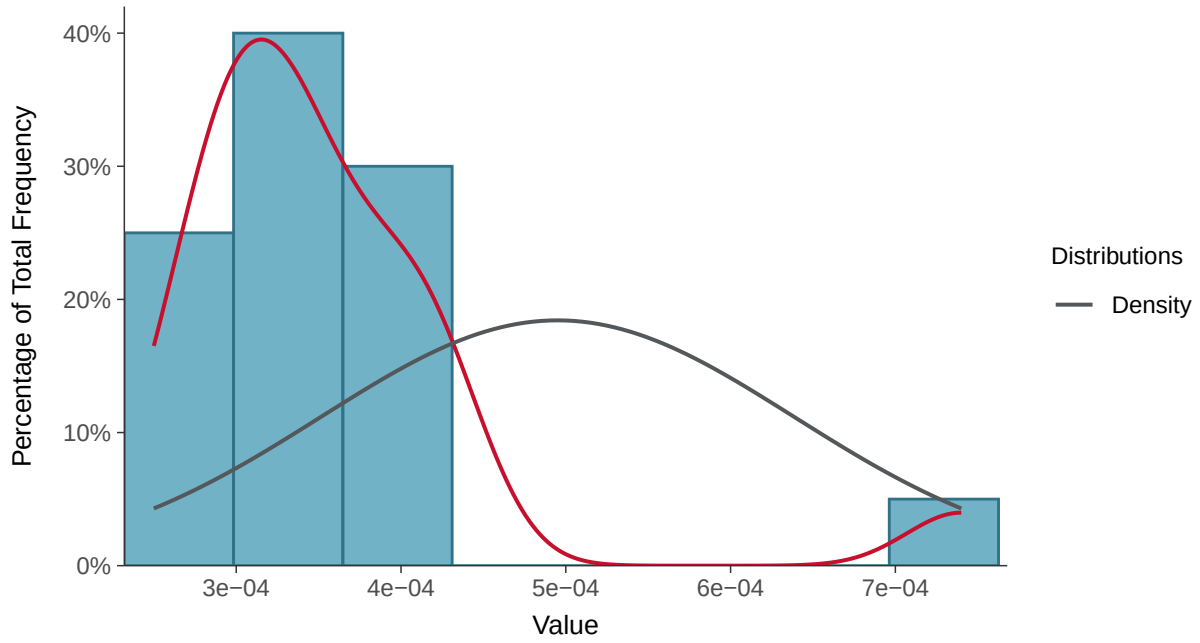
Scatter Plot

Chromium, Total, MW-07 (mg/L)



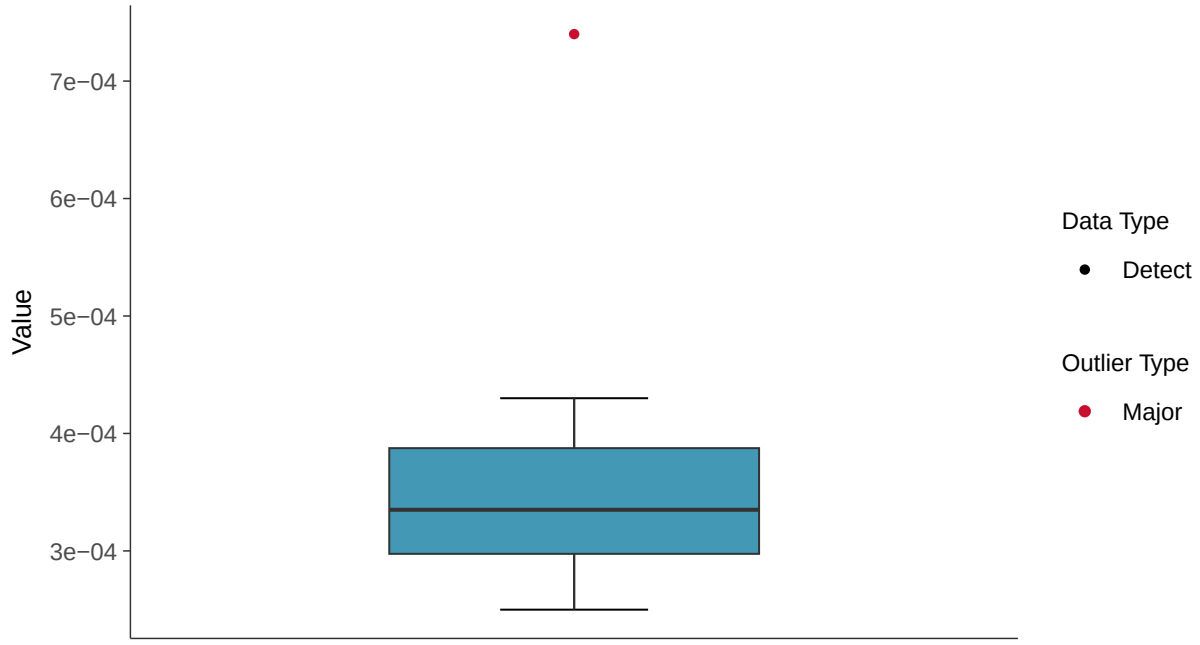
Histogram

Chromium, Total, MW-07 (mg/L)



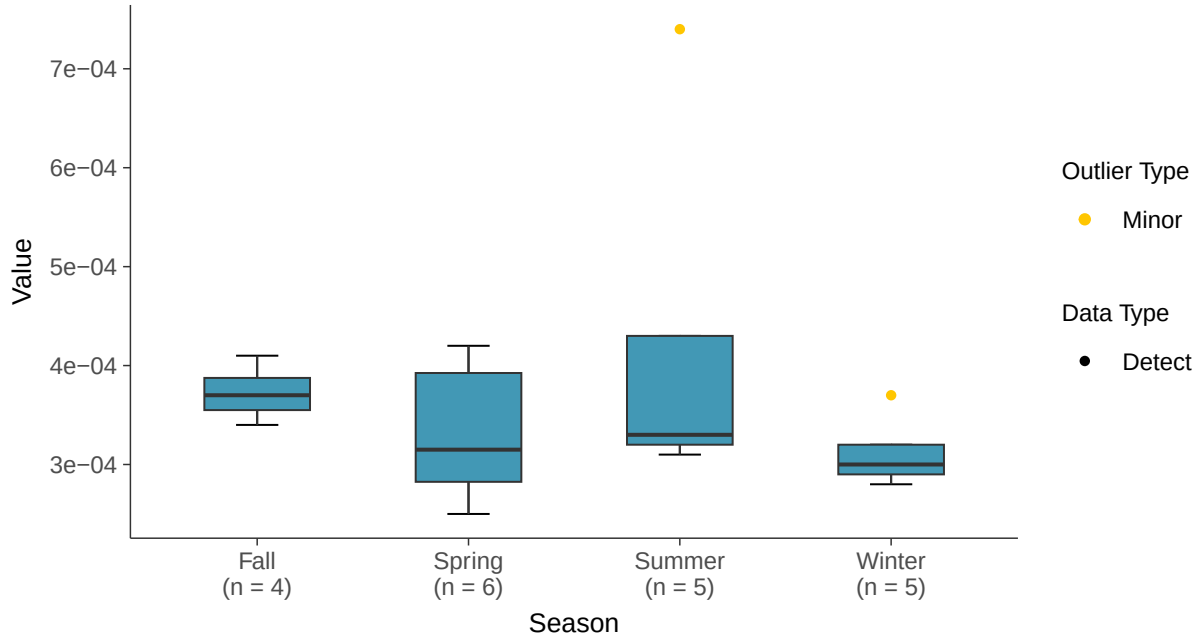
Boxplot

Chromium, Total, MW-07 (mg/L)



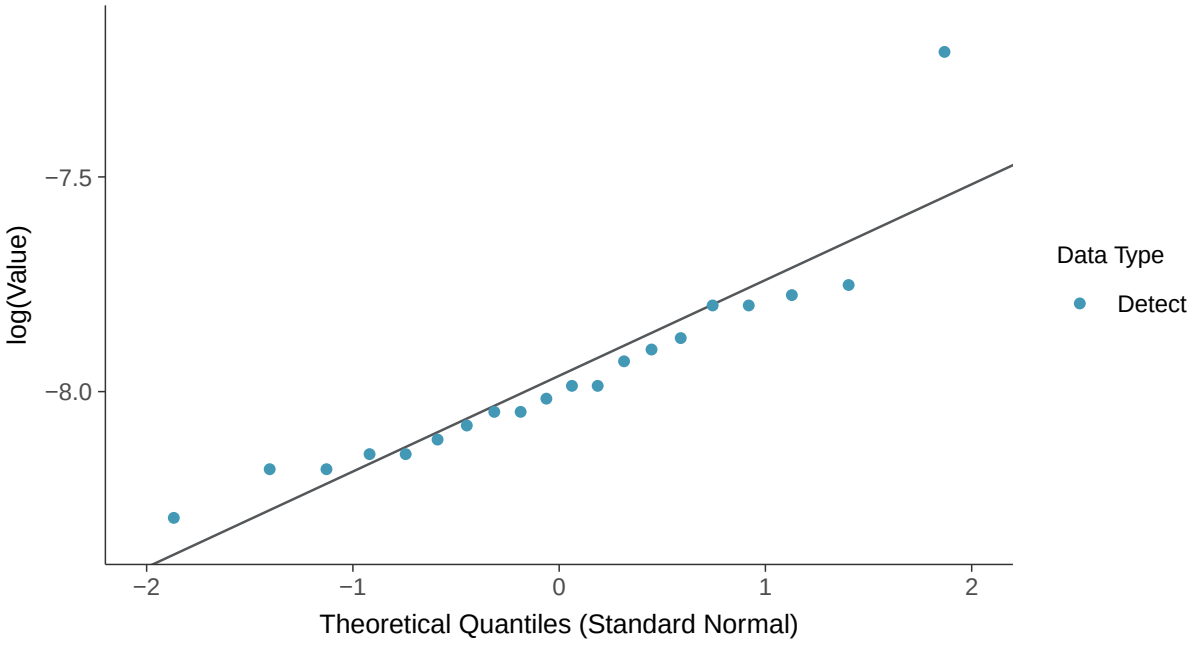
Boxplot by Season

Chromium, Total, MW-07 (mg/L)



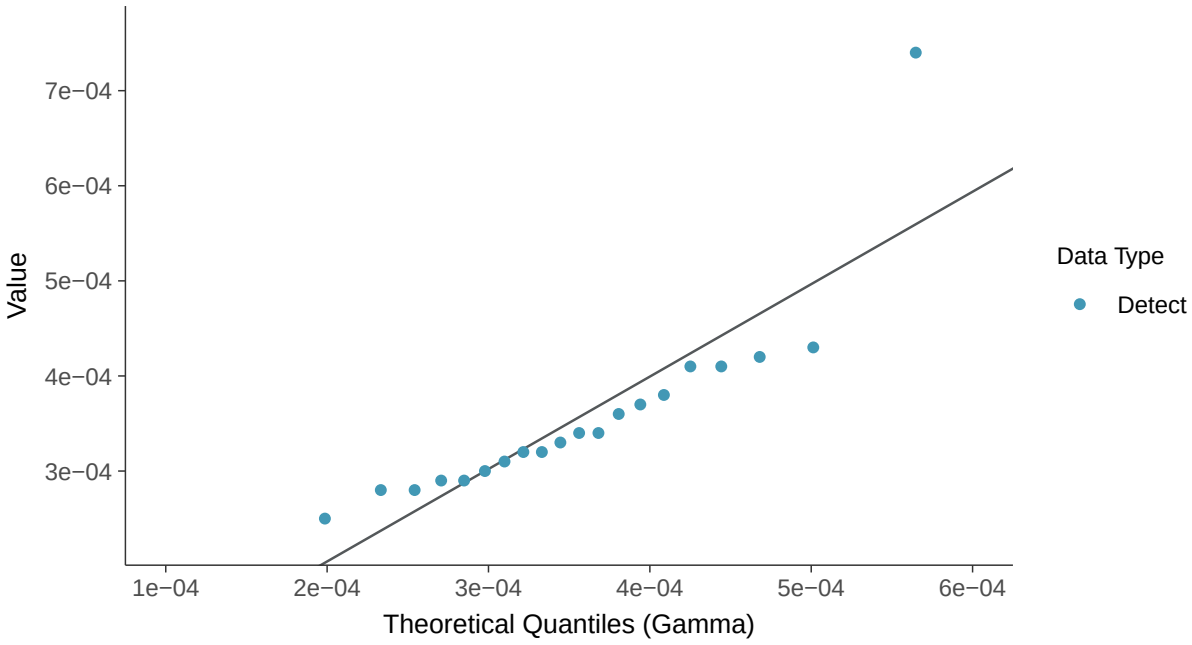
Lognormal Q-Q plot

Chromium, Total, MW-07 (mg/L)



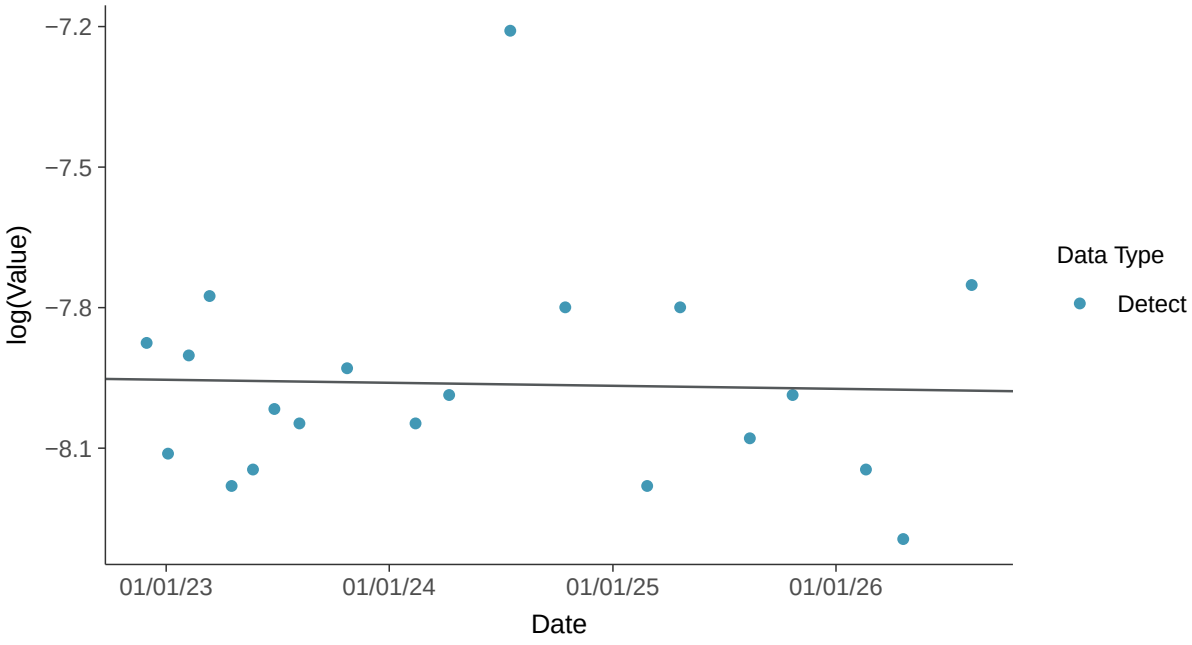
Gamma Q-Q plot

Chromium, Total, MW-07 (mg/L)



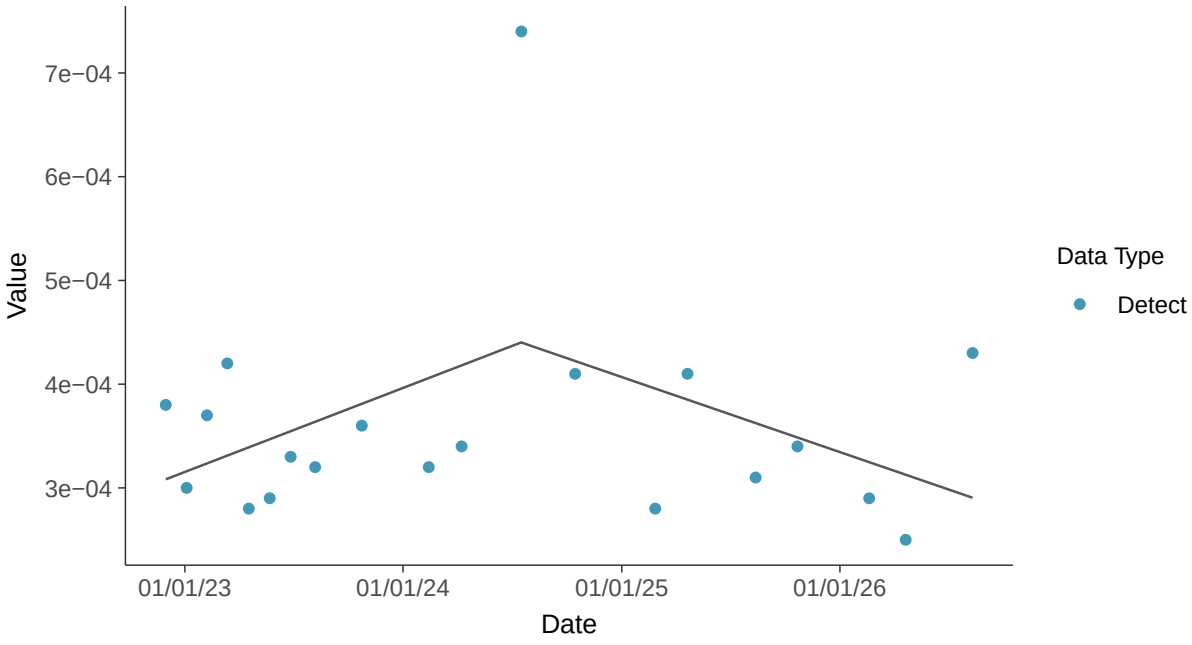
Trend Regression: Lognormal MLE

Chromium, Total, MW-07 (mg/L)



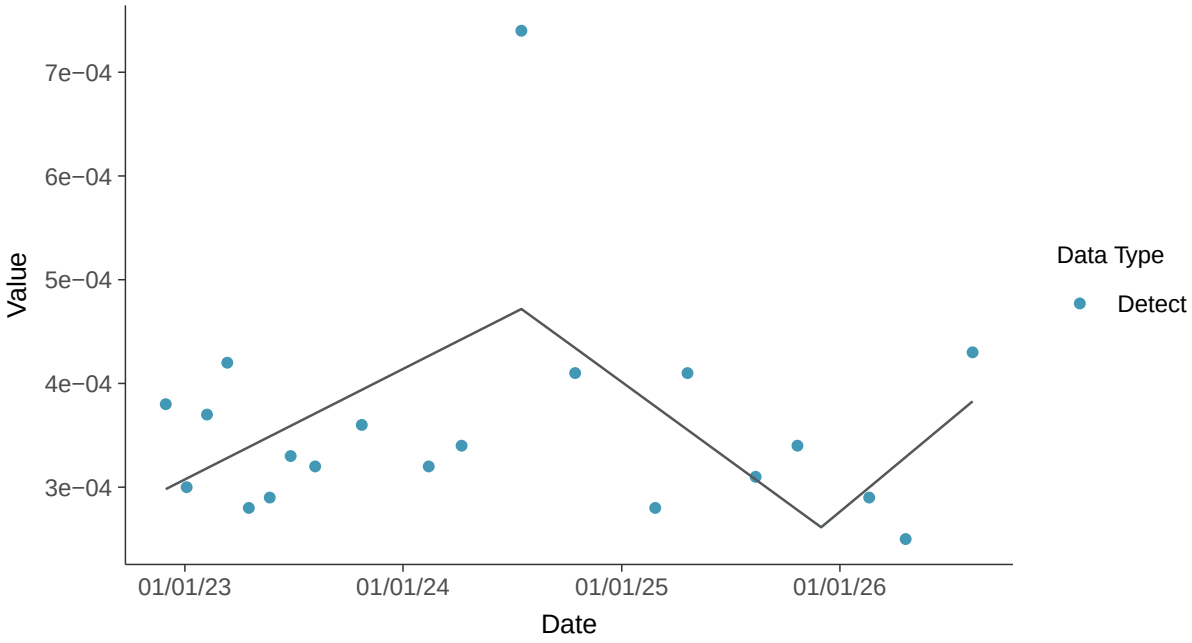
Trend Regression: Piecewise Linear-Linear

Chromium, Total, MW-07 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Chromium, Total, MW-07 (mg/L)

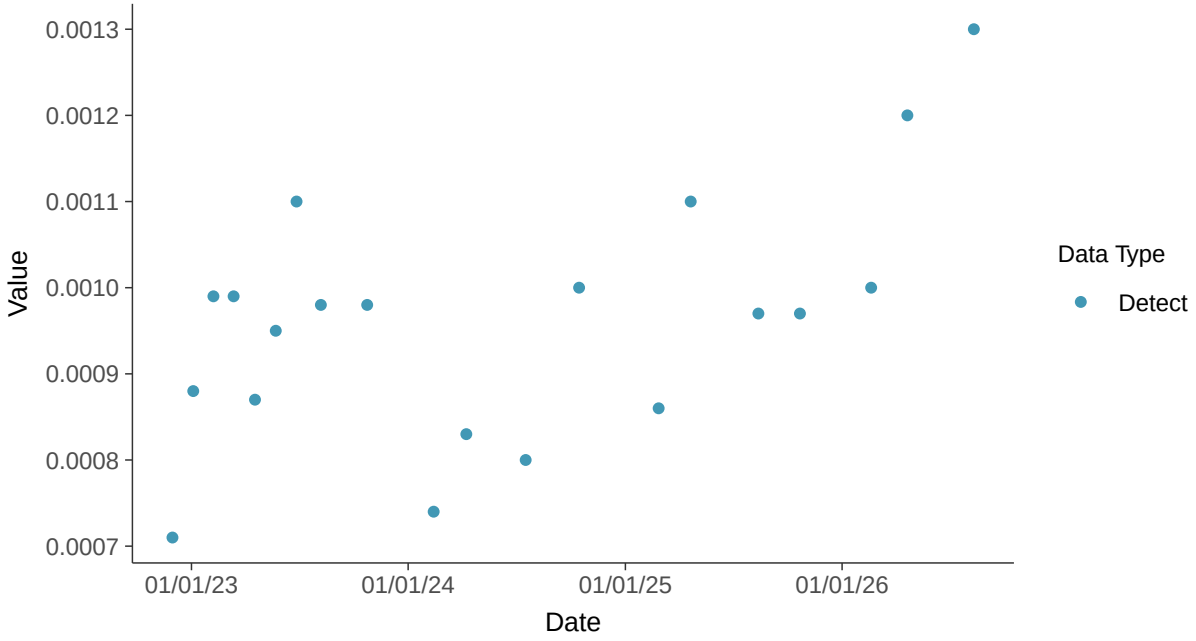


Appendix IV: Cobalt, MW-07

ID: 17_1_4_110

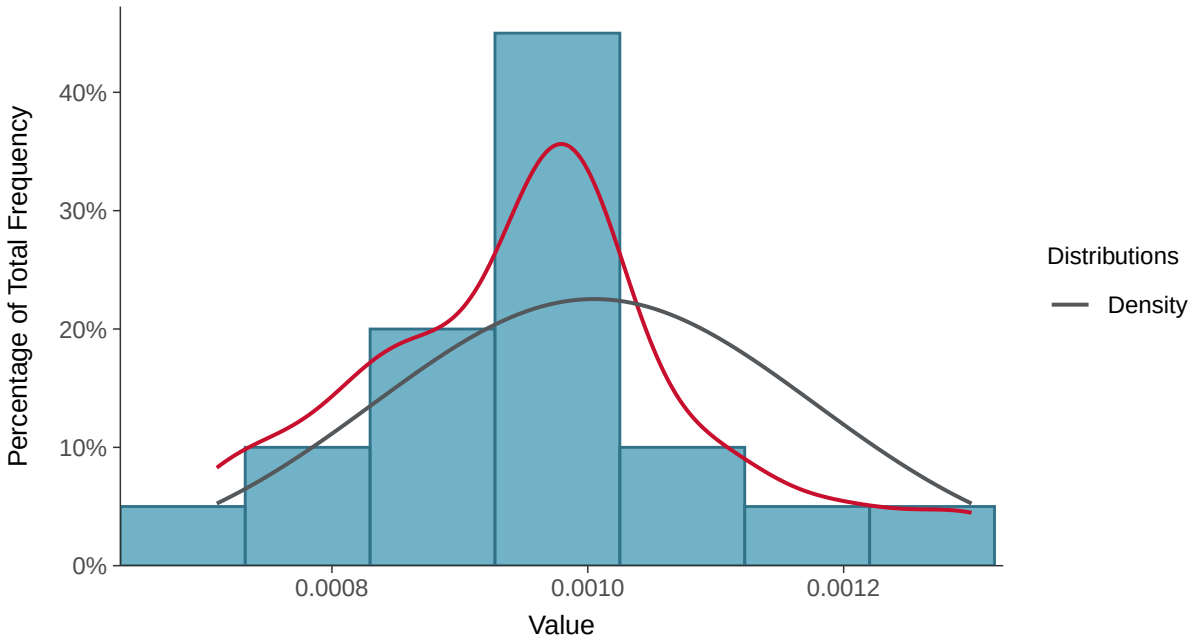
Scatter Plot

Cobalt, MW-07 (mg/L)



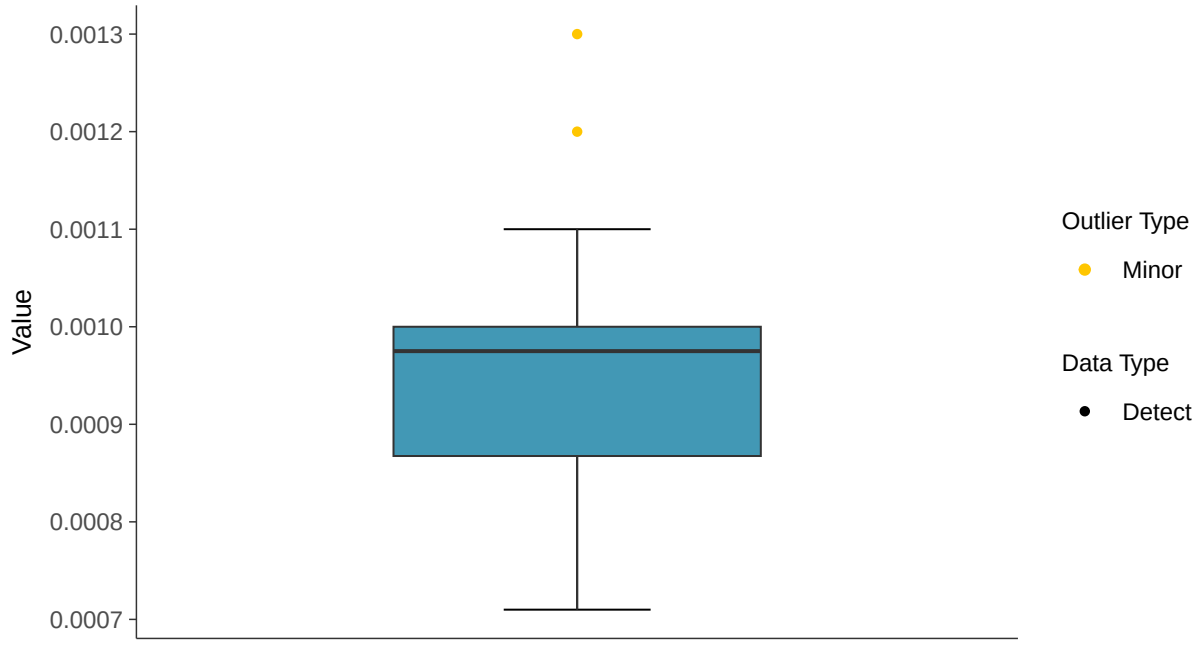
Histogram

Cobalt, MW-07 (mg/L)



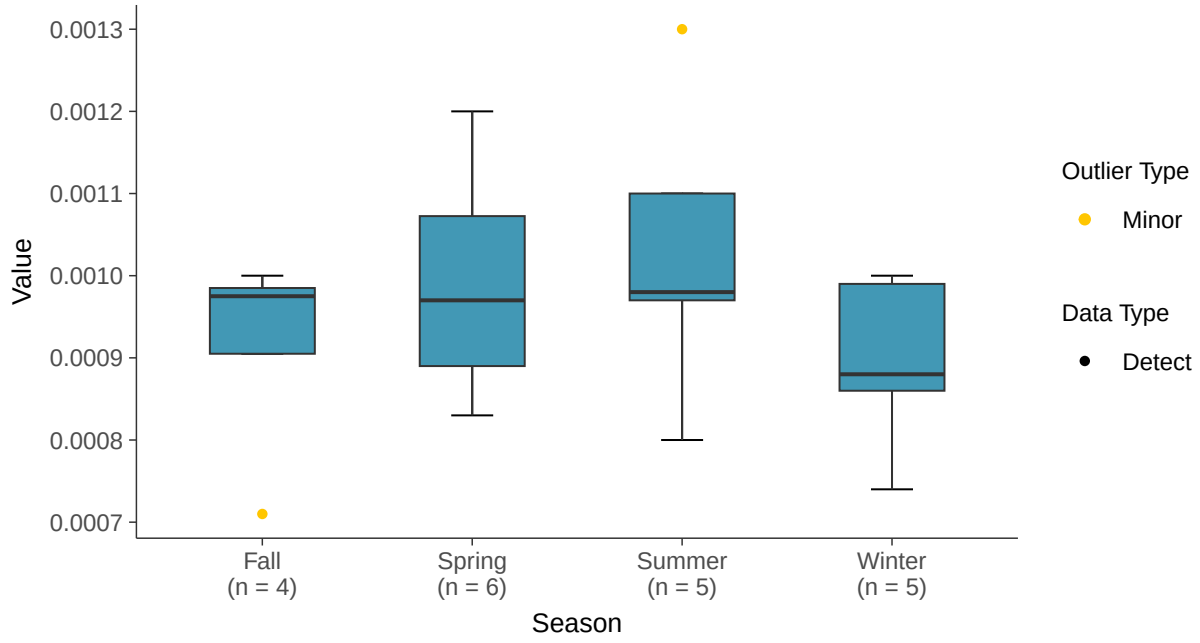
Boxplot

Cobalt, MW-07 (mg/L)



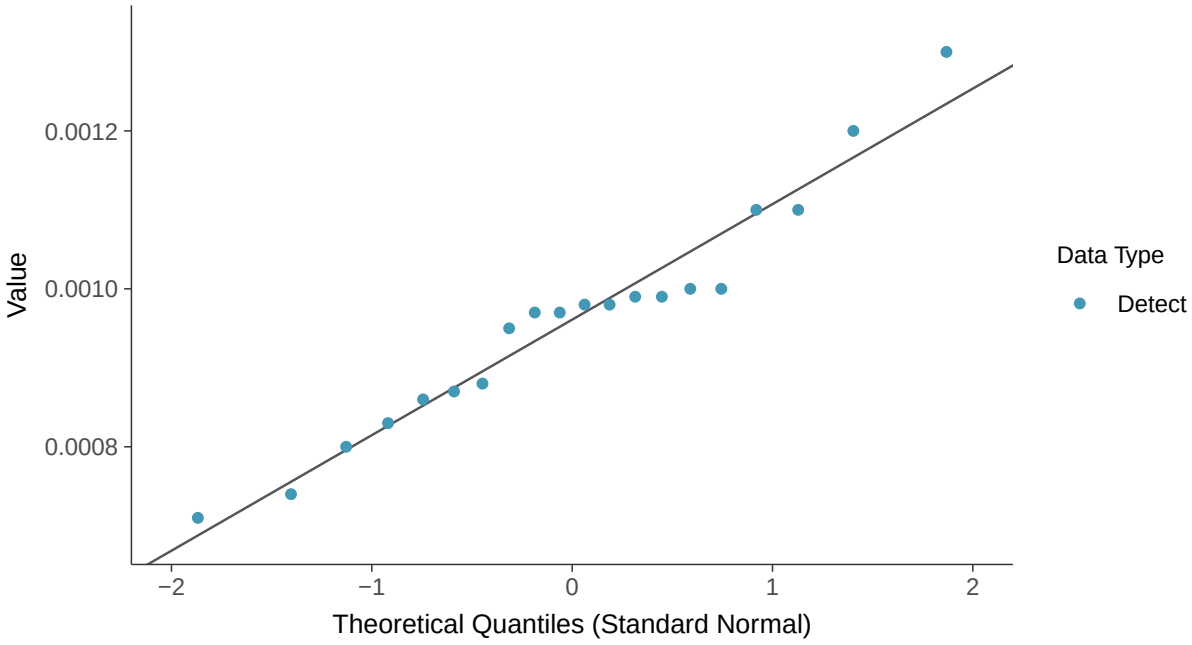
Boxplot by Season

Cobalt, MW-07 (mg/L)



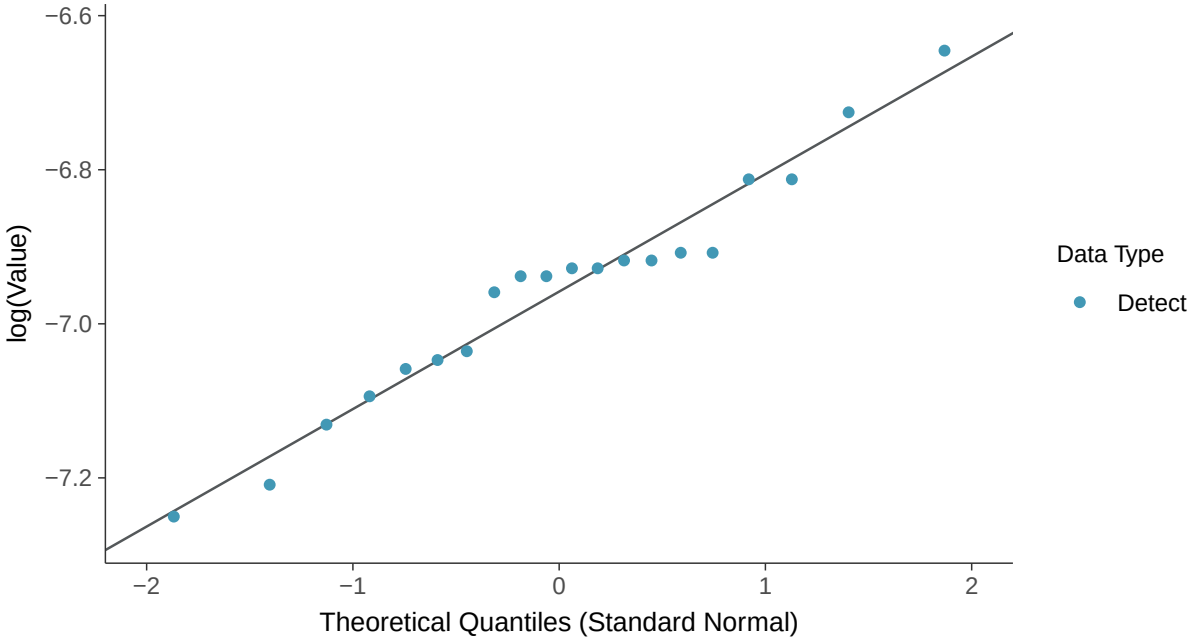
Normal Q-Q plot

Cobalt, MW-07 (mg/L)



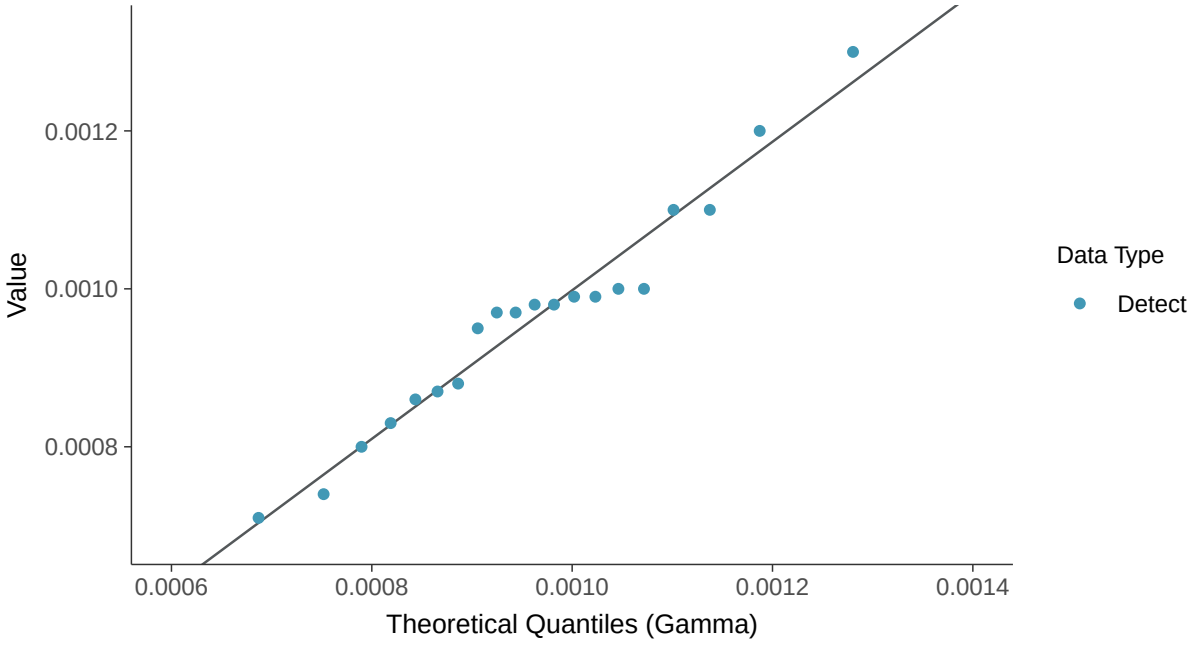
Lognormal Q-Q plot

Cobalt, MW-07 (mg/L)



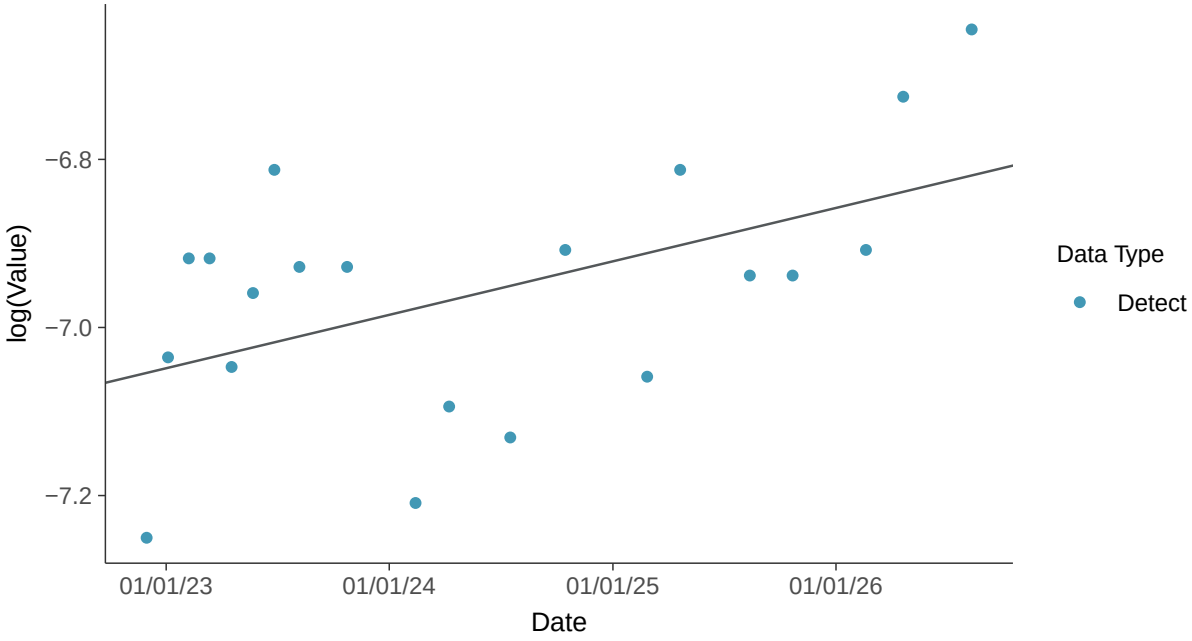
Gamma Q-Q plot

Cobalt, MW-07 (mg/L)



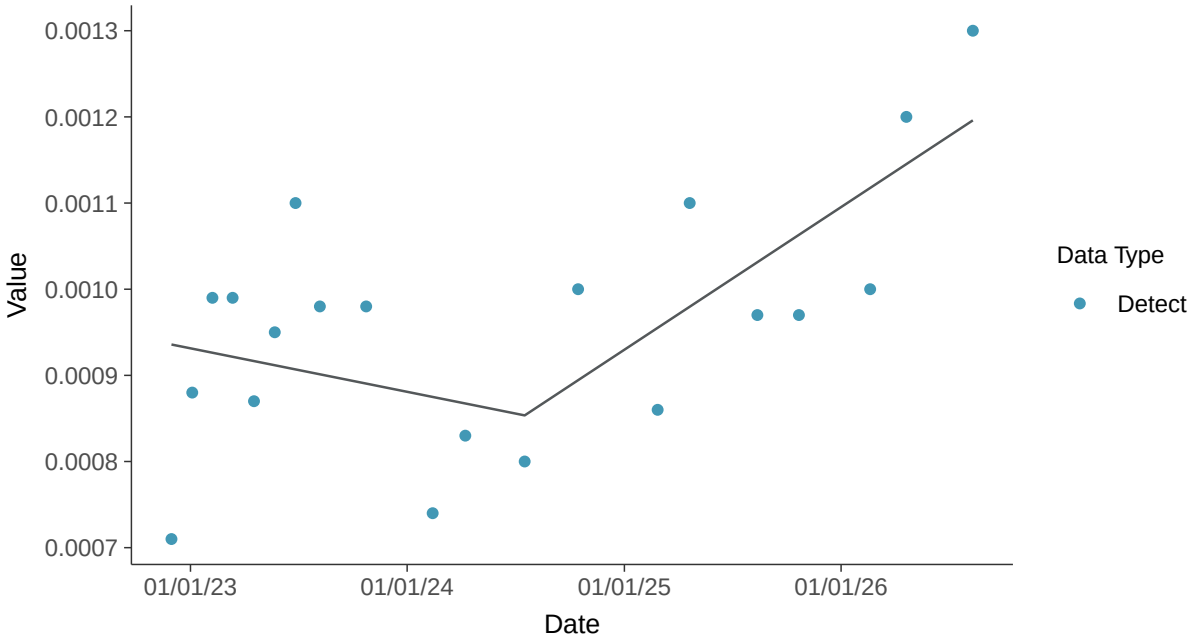
Trend Regression: Lognormal MLE

Cobalt, MW-07 (mg/L)



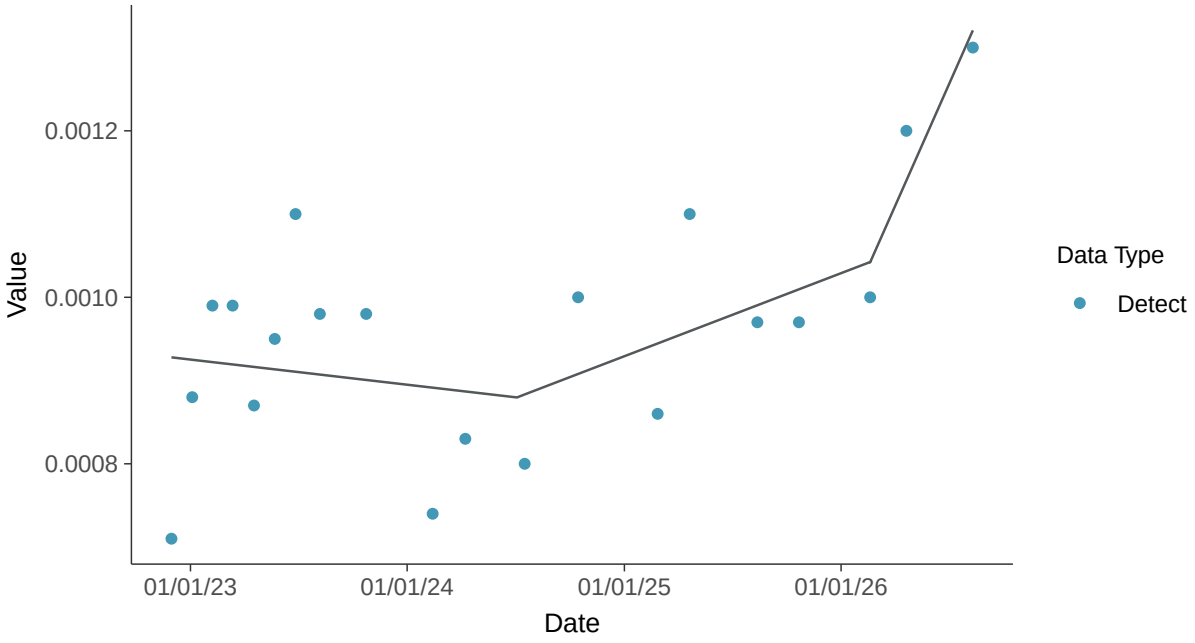
Trend Regression: Piecewise Linear-Linear

Cobalt, MW-07 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Cobalt, MW-07 (mg/L)

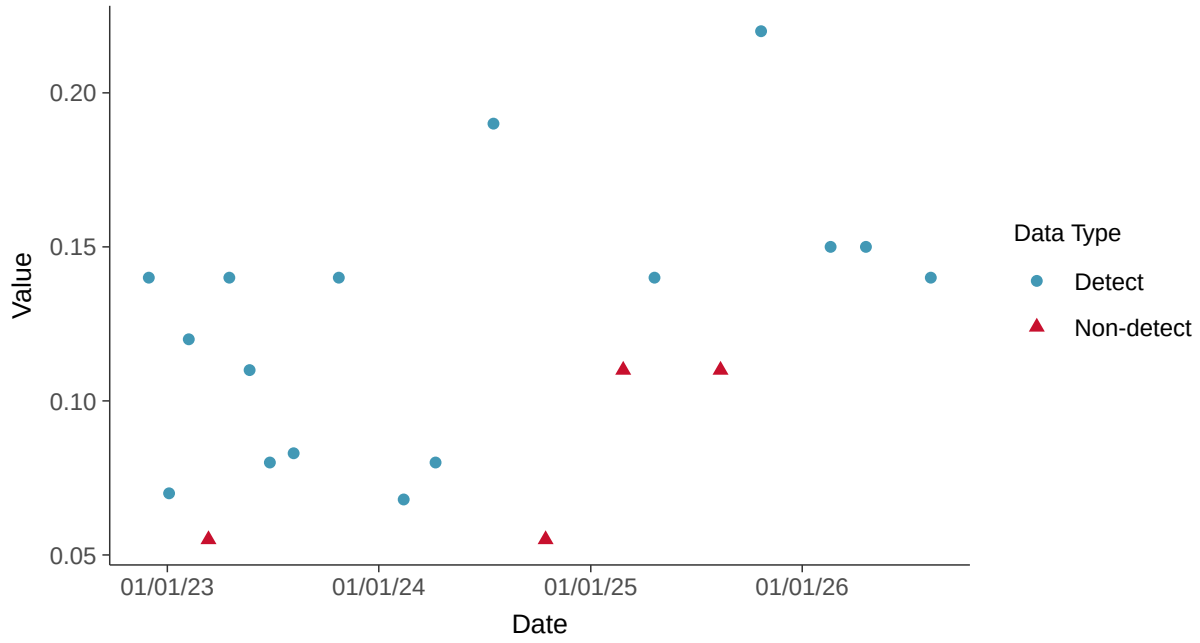


Appendix IV: Fluoride (App IV), MW-07

ID: 17_1_4_113

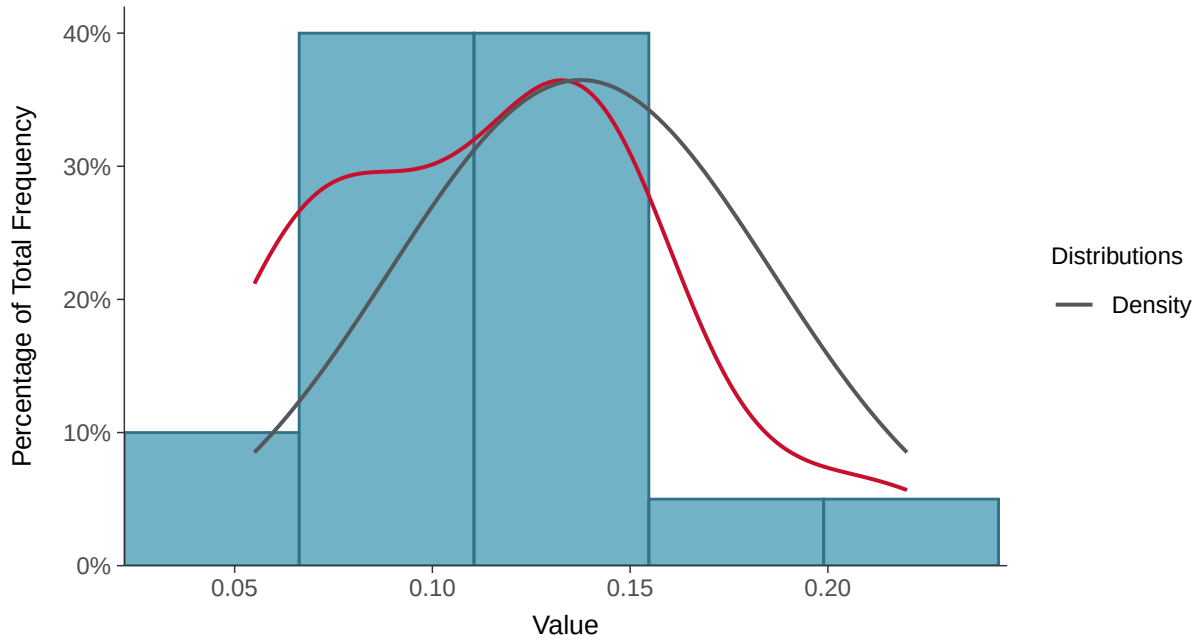
Scatter Plot

Fluoride (App IV), MW-07 (mg/L)



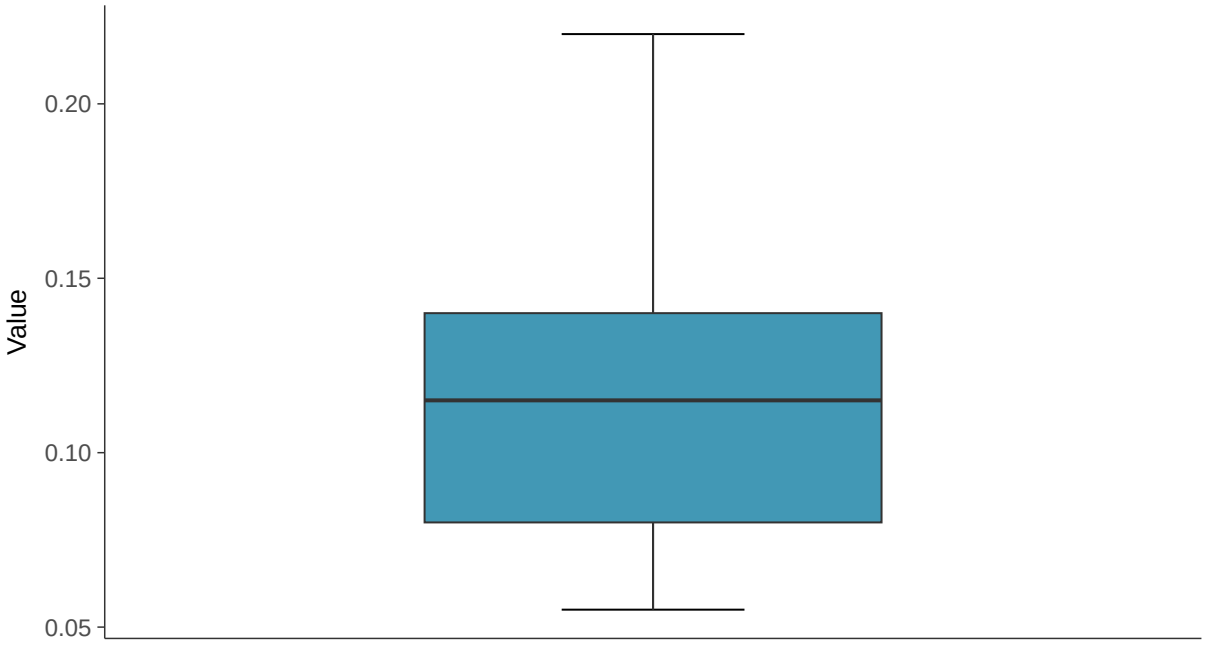
Histogram

Fluoride (App IV), MW-07 (mg/L)



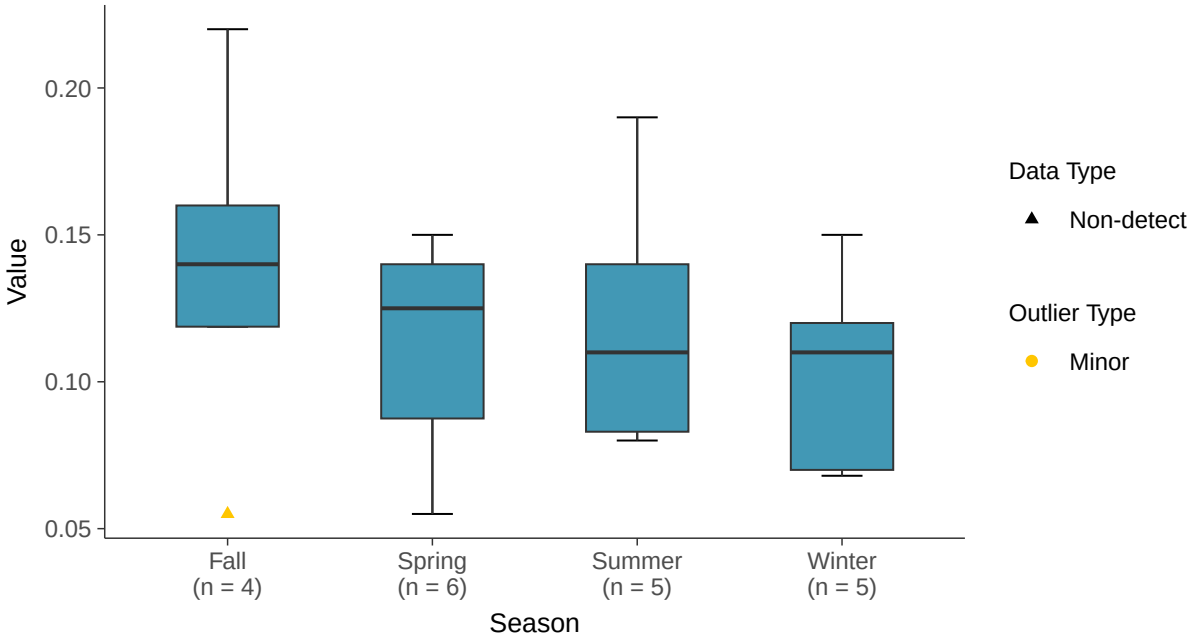
Boxplot

Fluoride (App IV), MW-07 (mg/L)



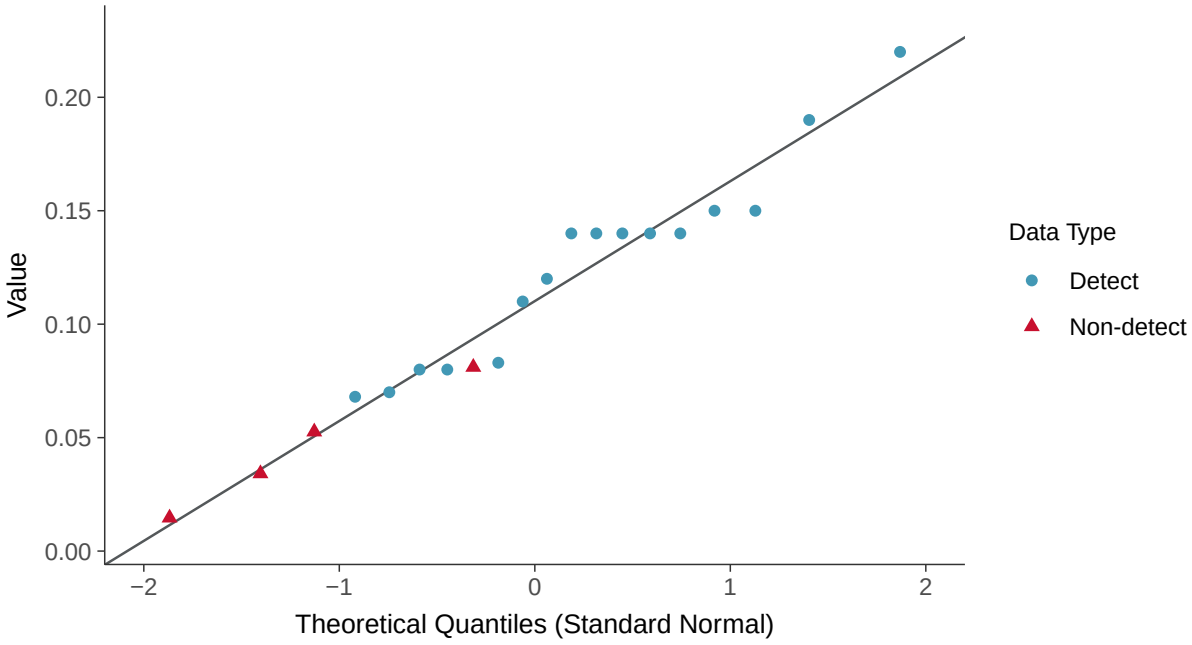
Boxplot by Season

Fluoride (App IV), MW-07 (mg/L)



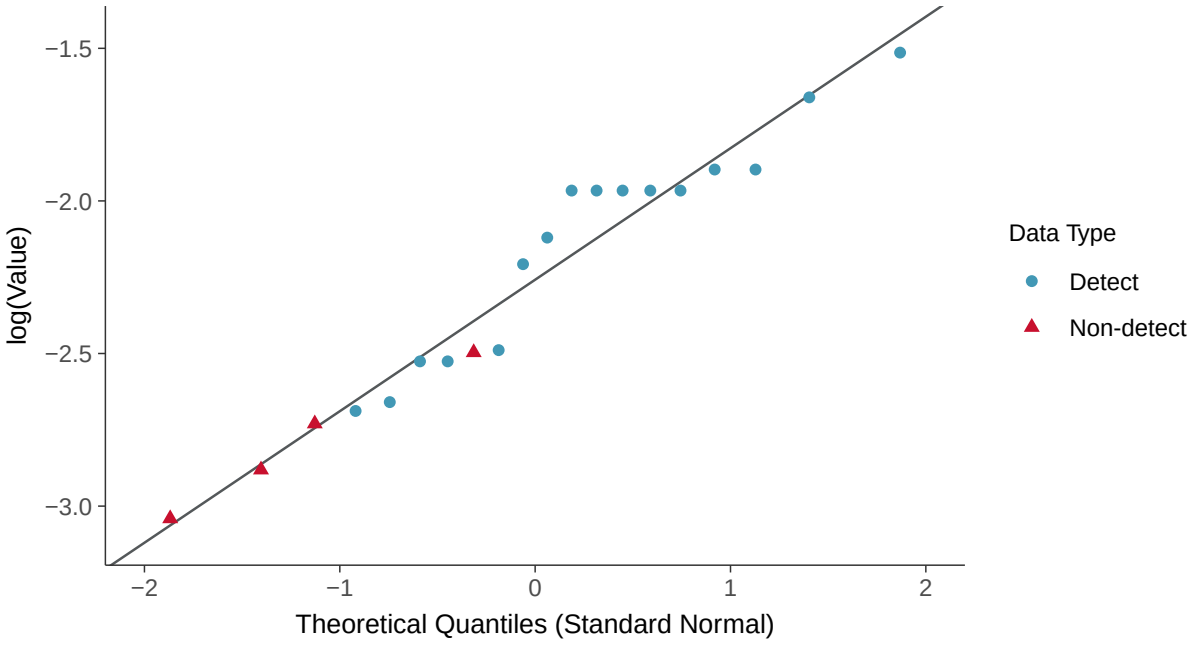
Normal Q-Q plot using ROS Imputed Estimates

Fluoride (App IV), MW-07 (mg/L)



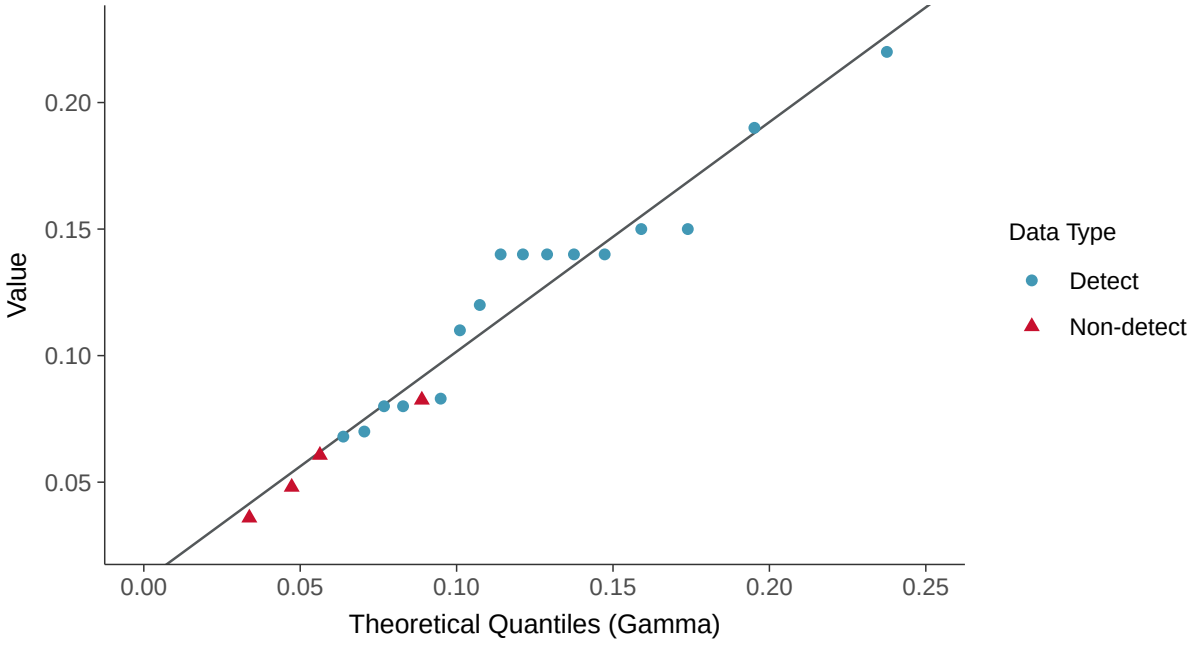
Lognormal Q-Q plot using ROS Imputed Estimates

Fluoride (App IV), MW-07 (mg/L)



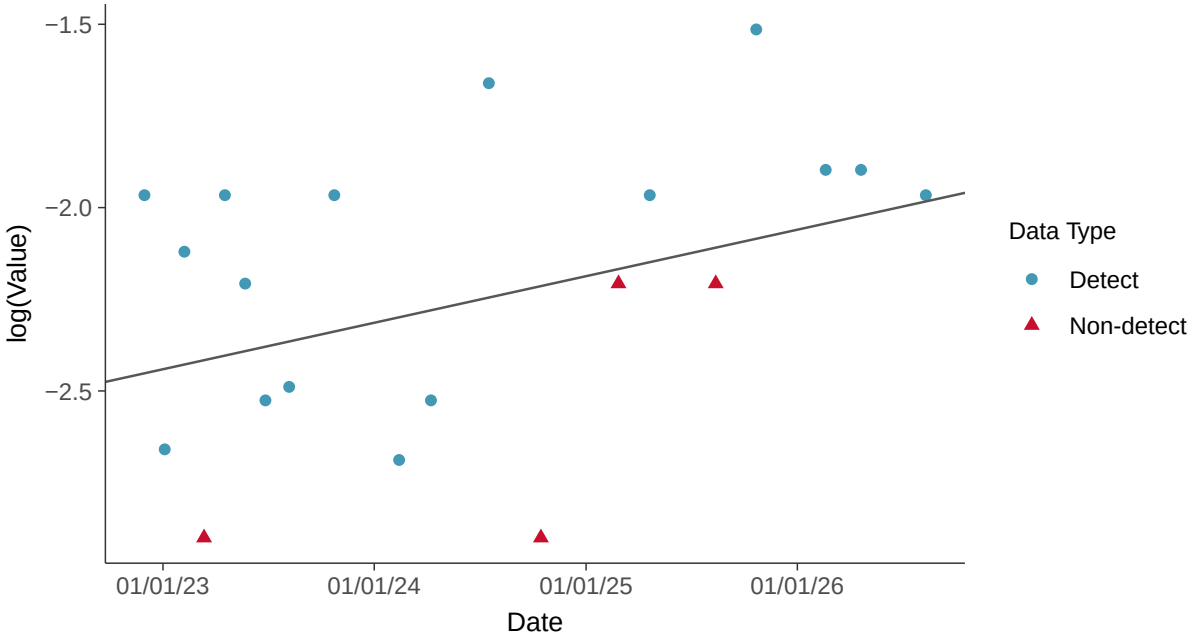
Gamma Q-Q plot using ROS Imputed Estimates

Fluoride (App IV), MW-07 (mg/L)



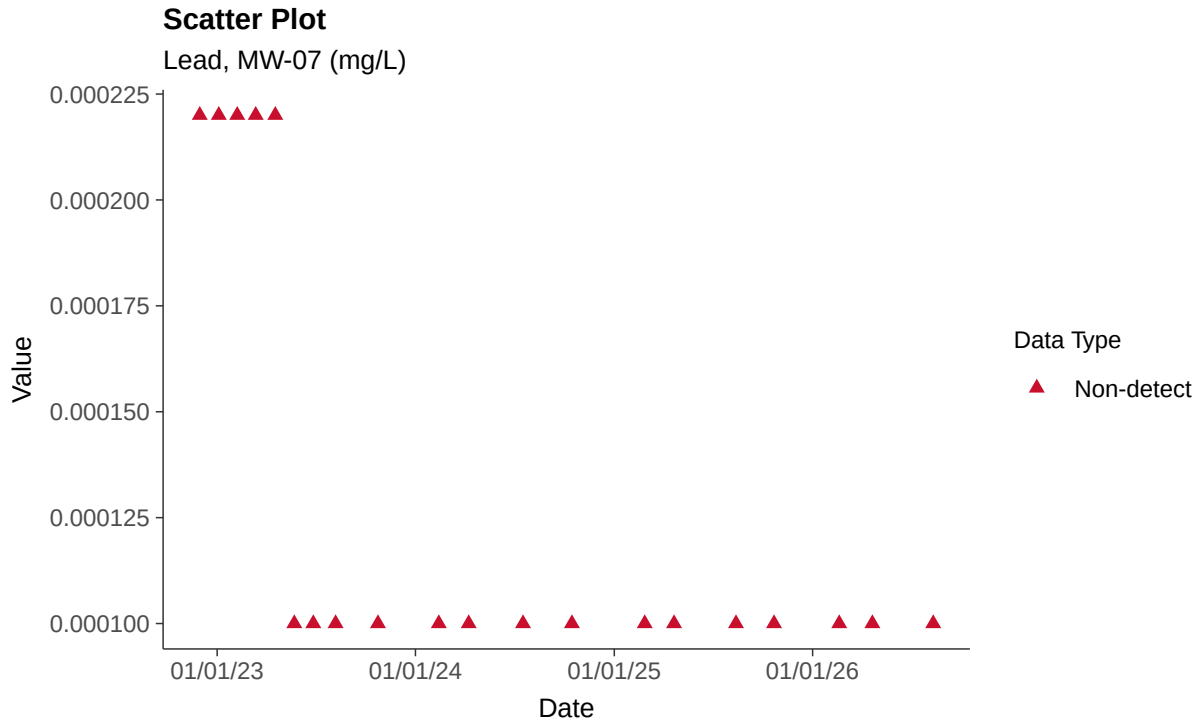
Trend Regression: Lognormal MLE

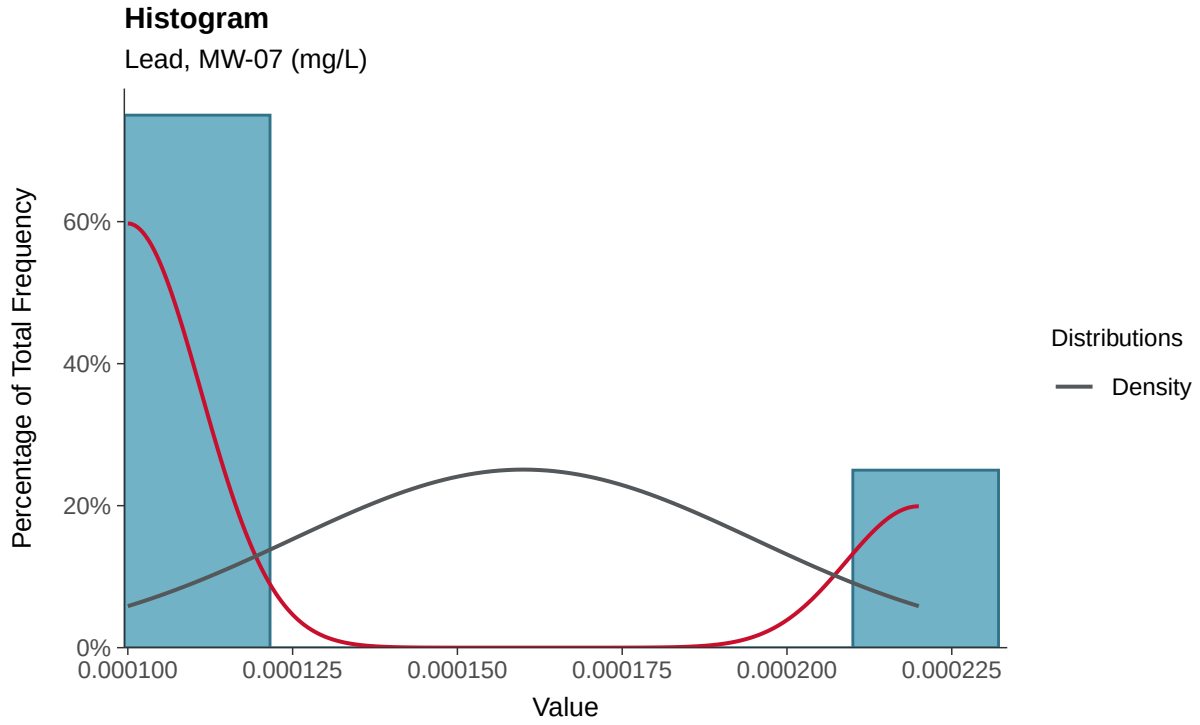
Fluoride (App IV), MW-07 (mg/L)



Appendix IV: Lead, MW-07

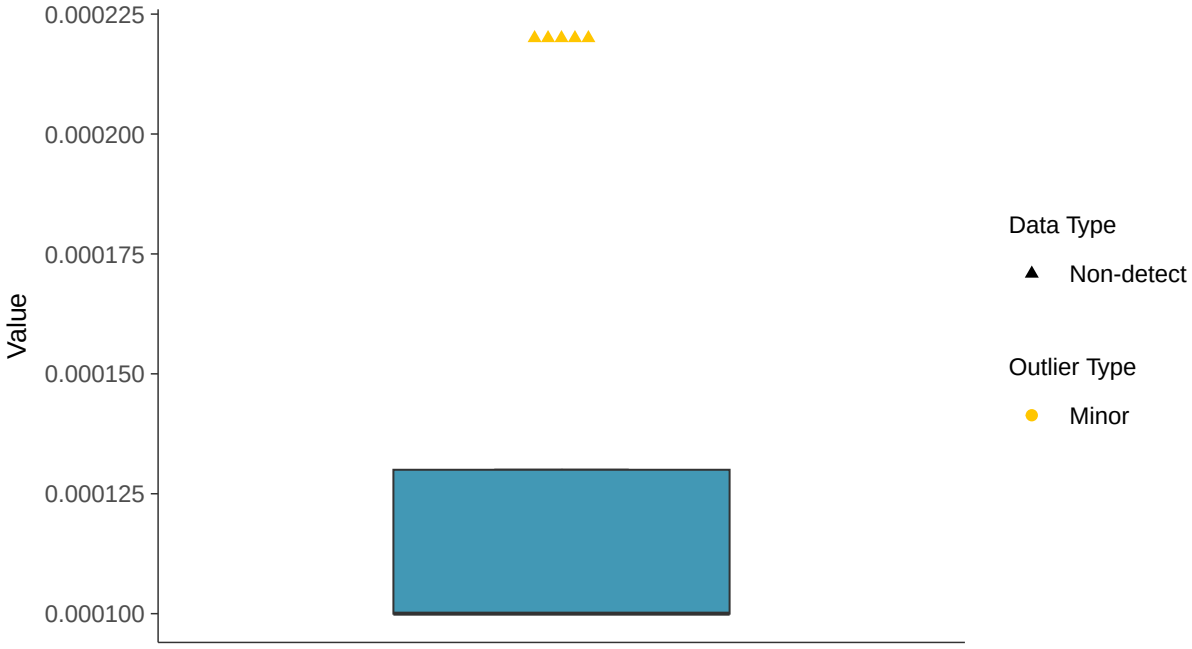
ID: 17_1_4_115





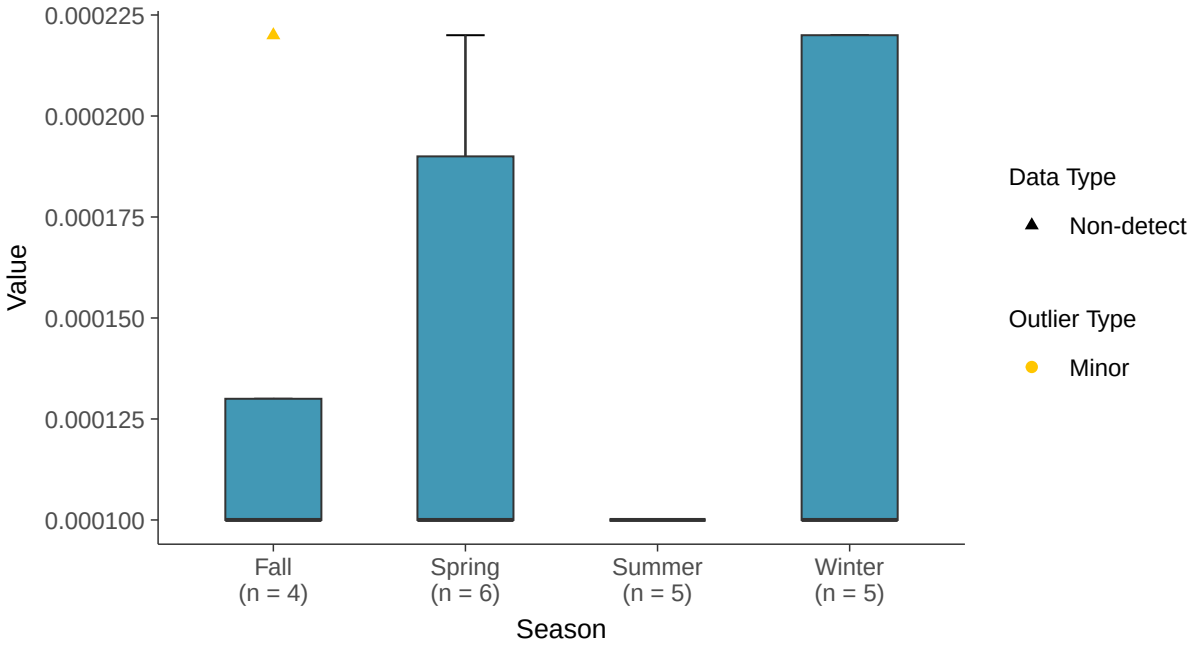
Boxplot

Lead, MW-07 (mg/L)



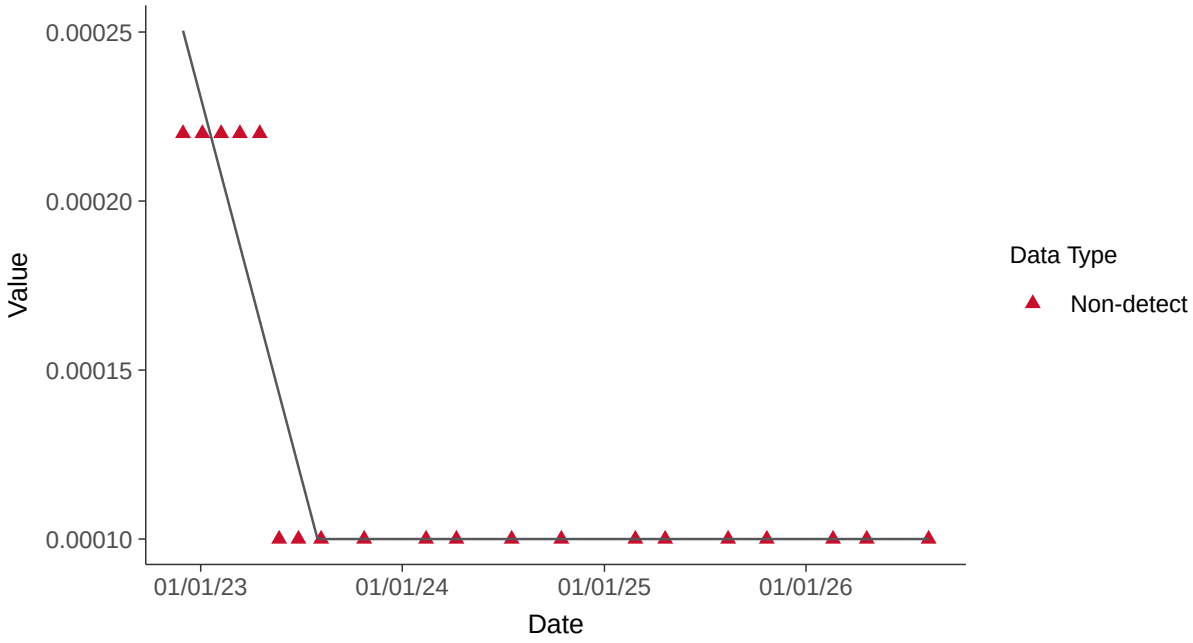
Boxplot by Season

Lead, MW-07 (mg/L)



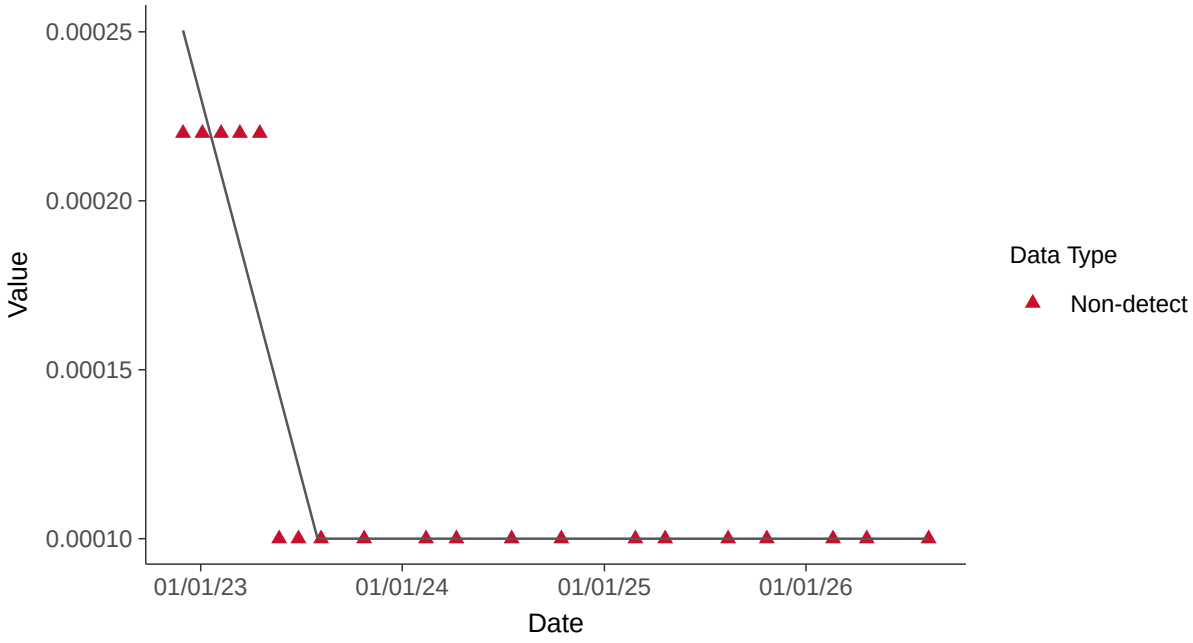
Trend Regression: Piecewise Linear-Linear

Lead, MW-07 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Lead, MW-07 (mg/L)

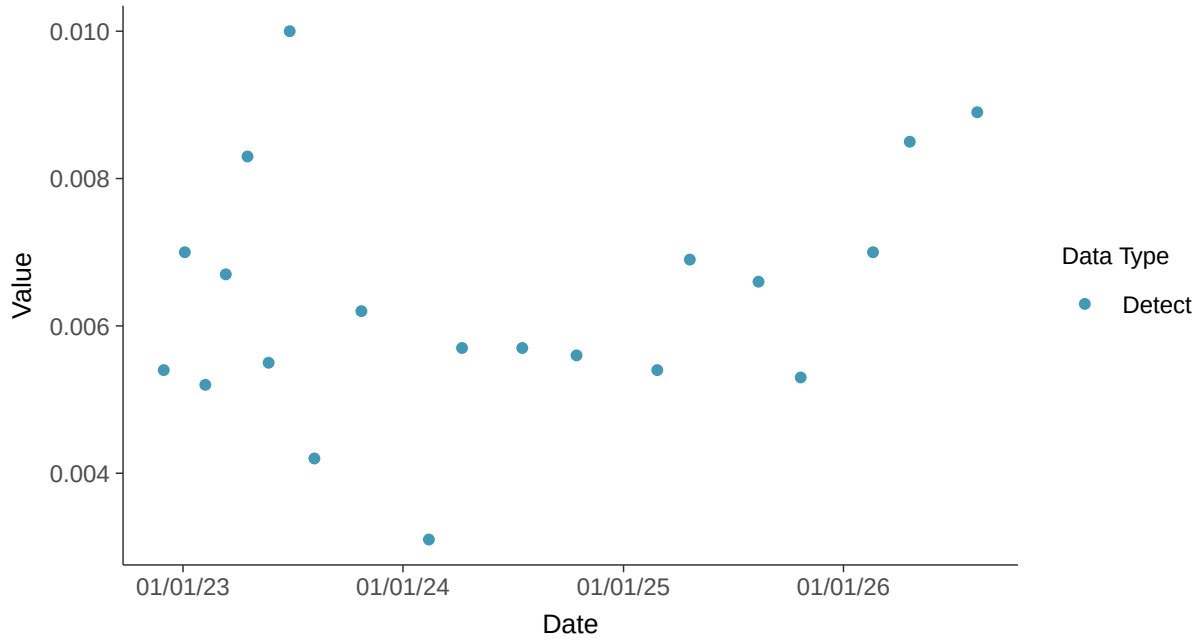


Appendix IV: Lithium, MW-07

ID: 17_1_4_116

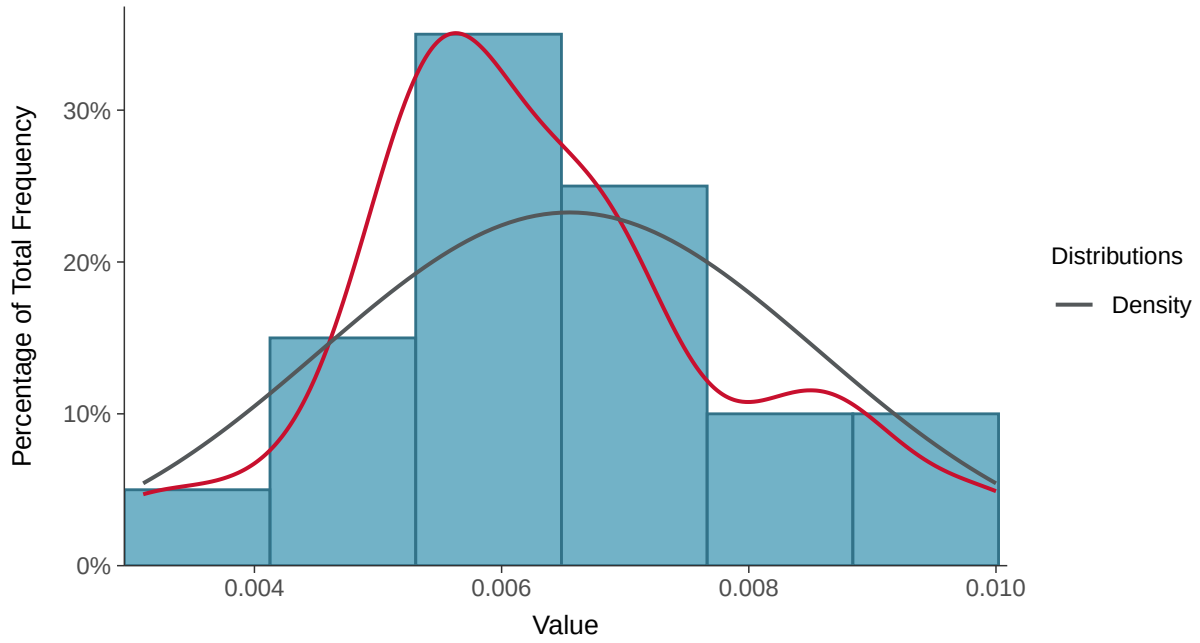
Scatter Plot

Lithium, MW-07 (mg/L)



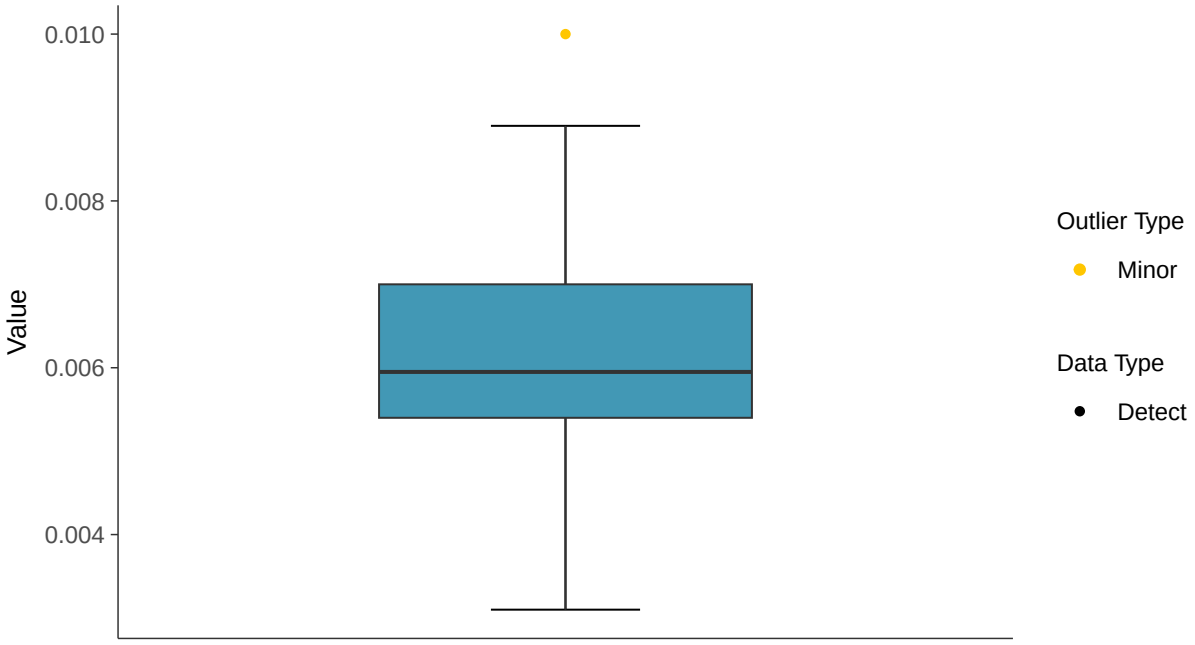
Histogram

Lithium, MW-07 (mg/L)



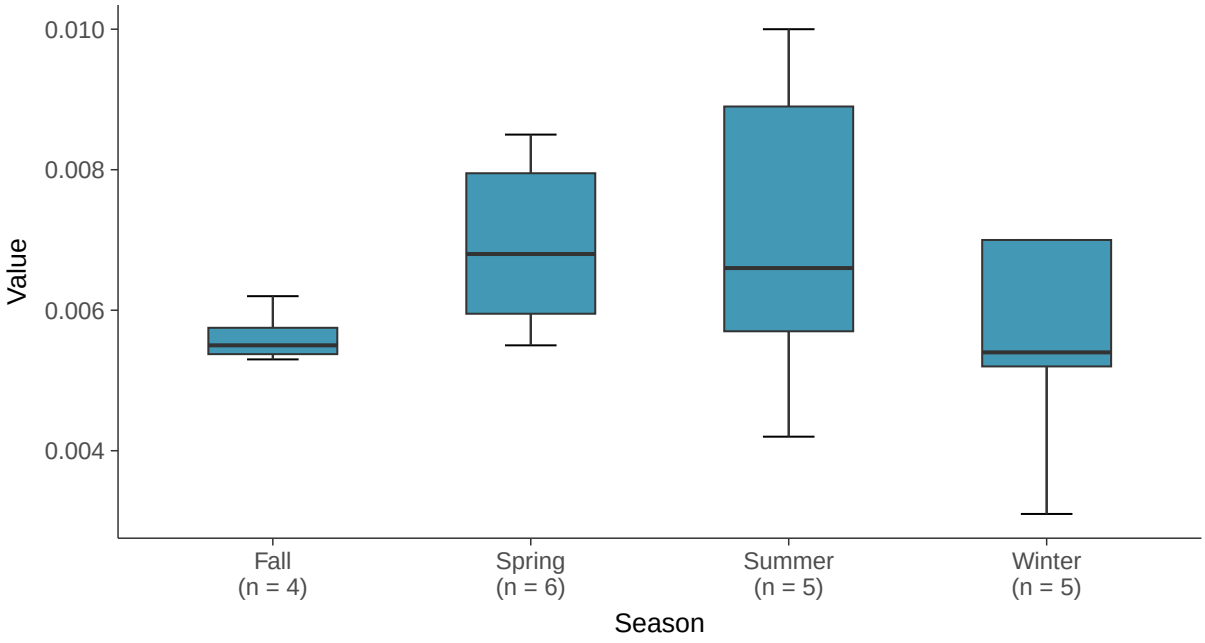
Boxplot

Lithium, MW-07 (mg/L)



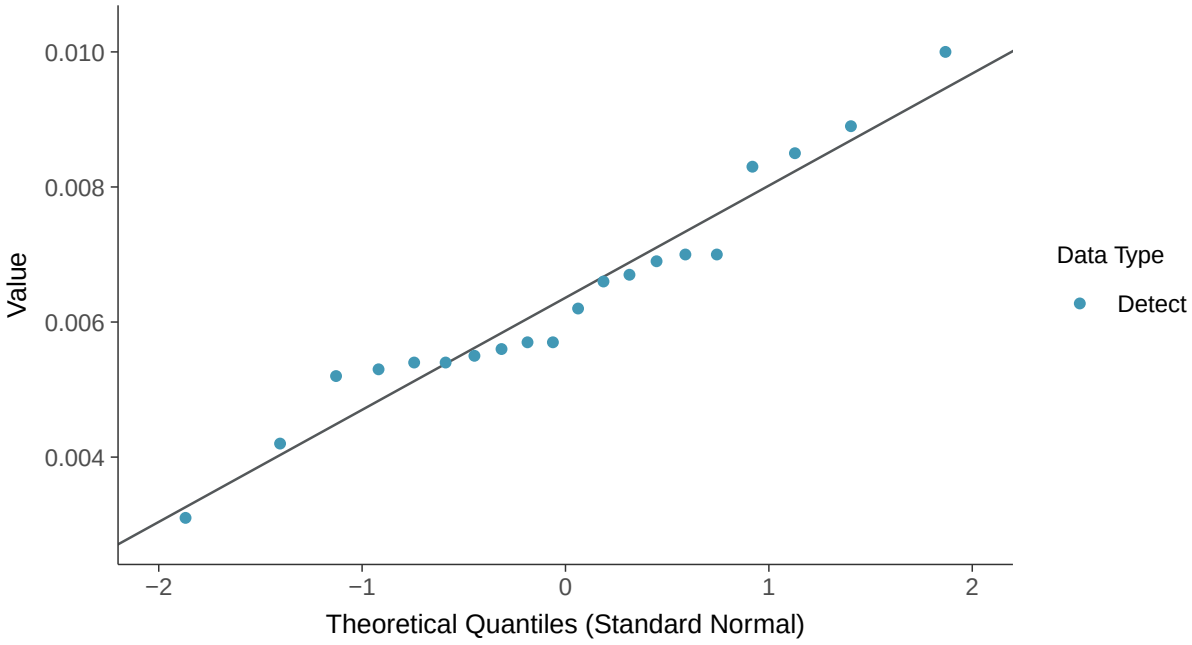
Boxplot by Season

Lithium, MW-07 (mg/L)



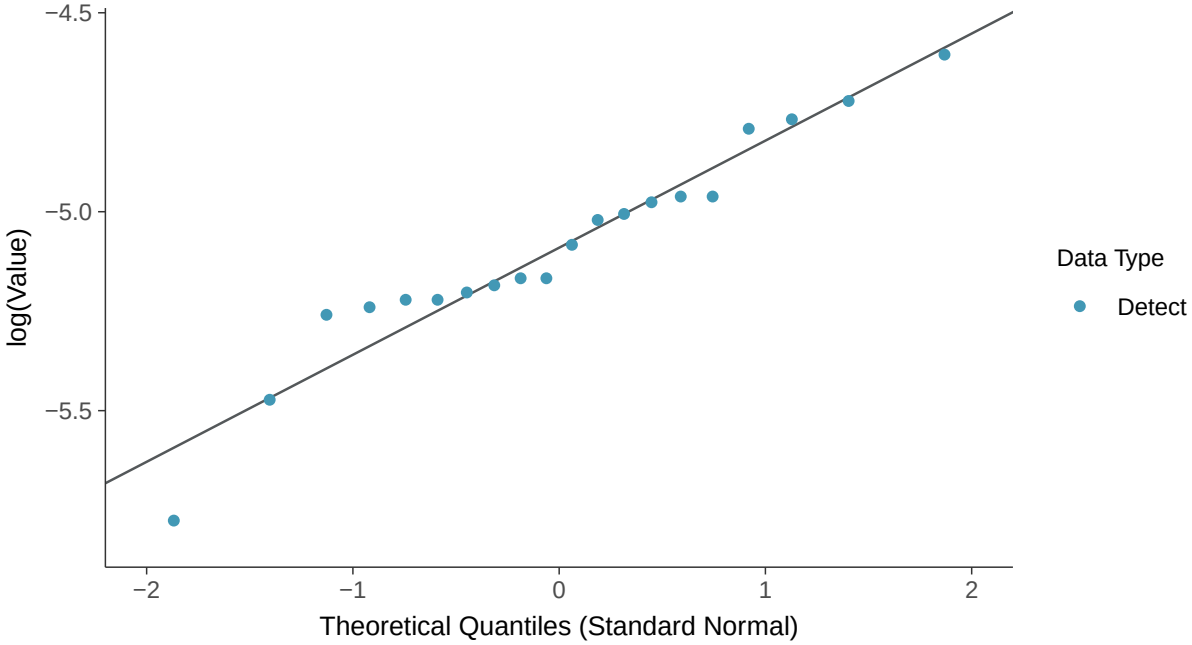
Normal Q-Q plot

Lithium, MW-07 (mg/L)



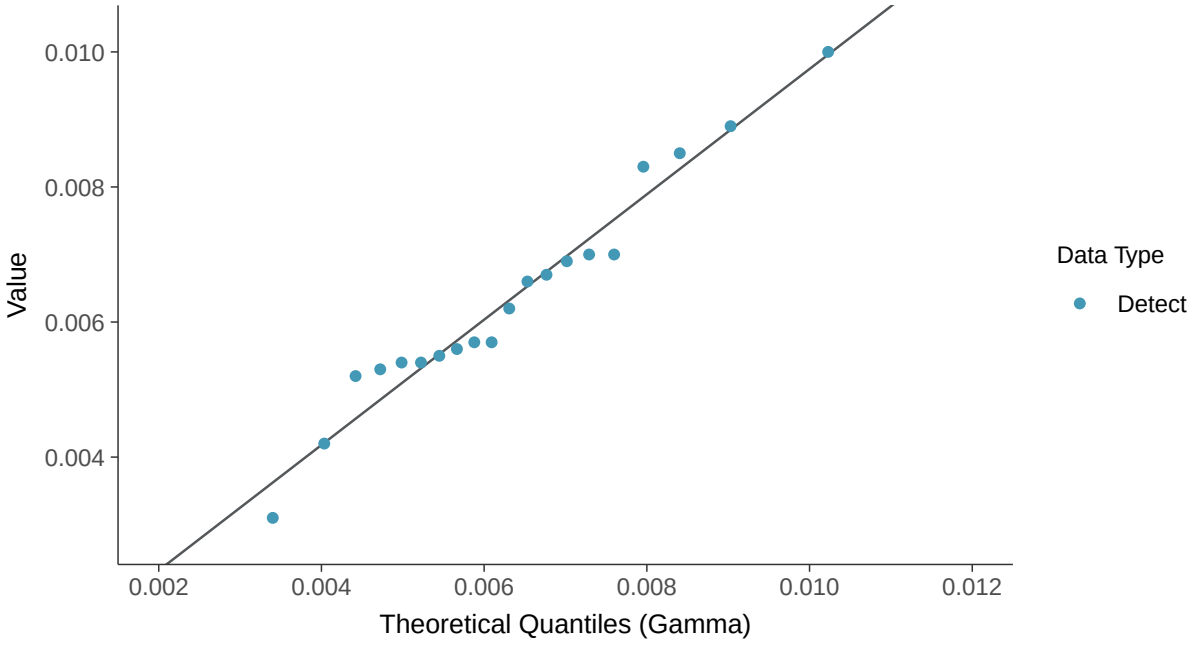
Lognormal Q-Q plot

Lithium, MW-07 (mg/L)



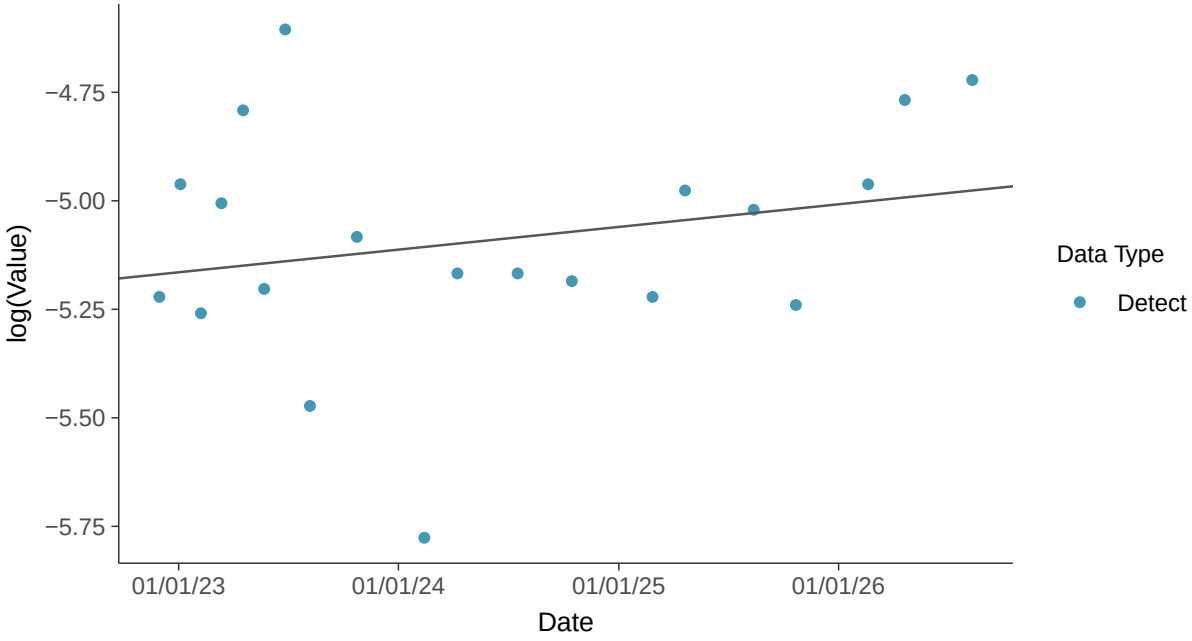
Gamma Q-Q plot

Lithium, MW-07 (mg/L)



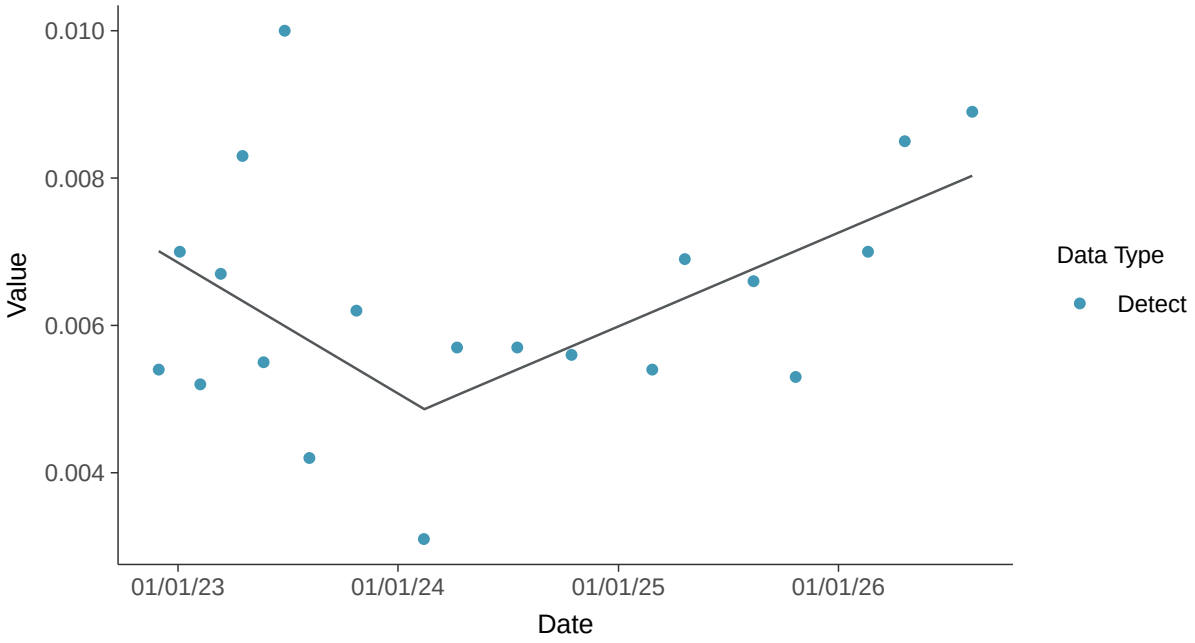
Trend Regression: Lognormal MLE

Lithium, MW-07 (mg/L)



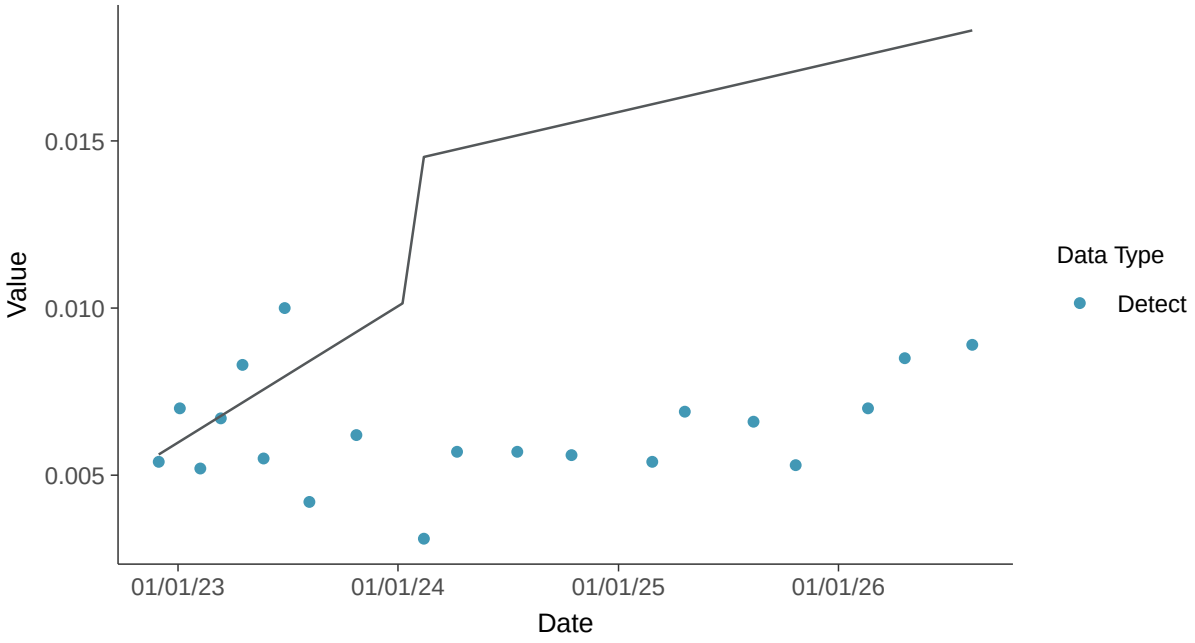
Trend Regression: Piecewise Linear-Linear

Lithium, MW-07 (mg/L)



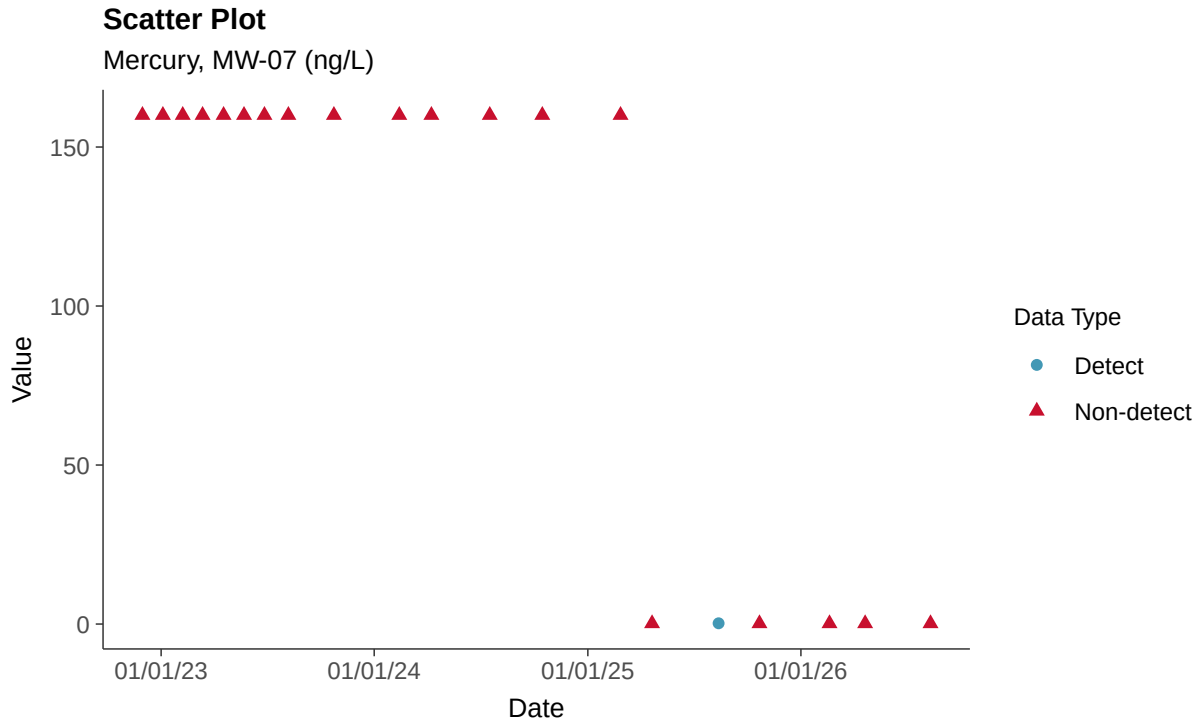
Trend Regression: Piecewise Linear-Linear-Linear

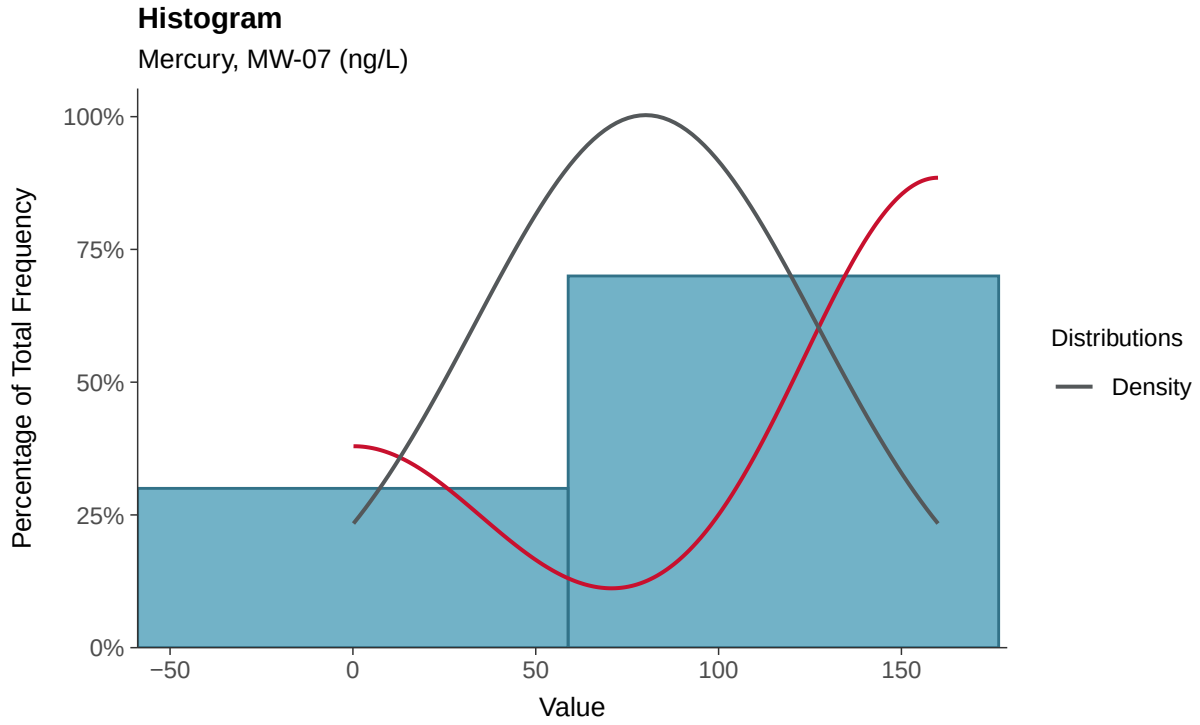
Lithium, MW-07 (mg/L)



Appendix IV: Mercury, MW-07

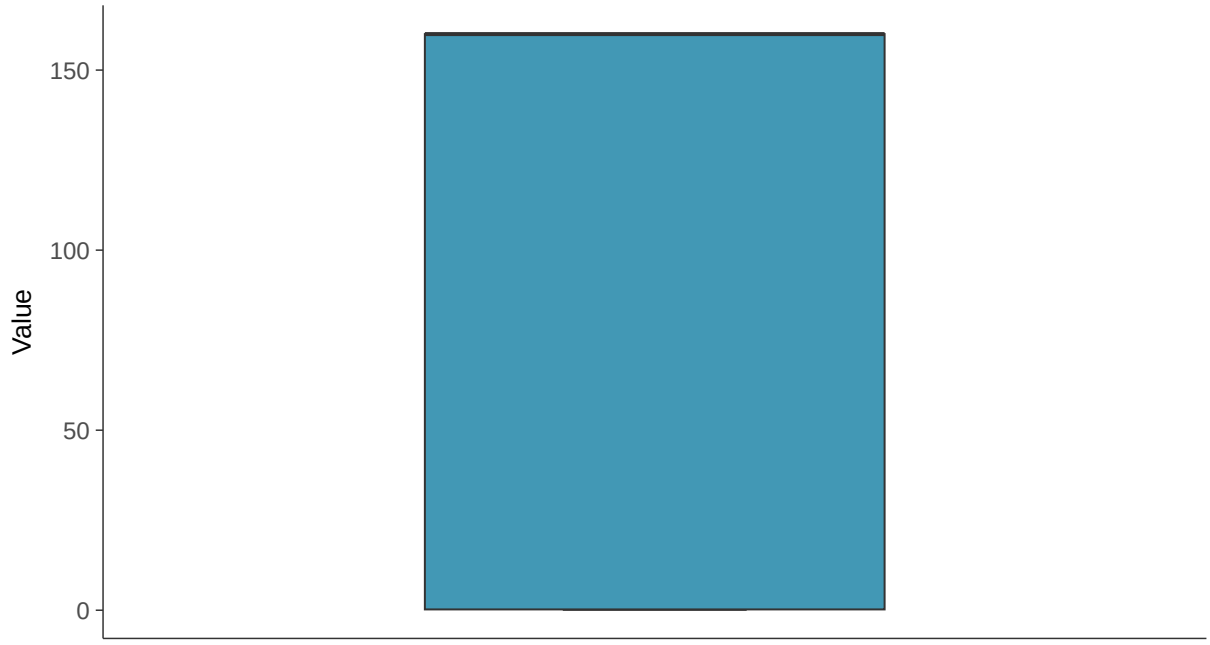
ID: 17_1_4_117





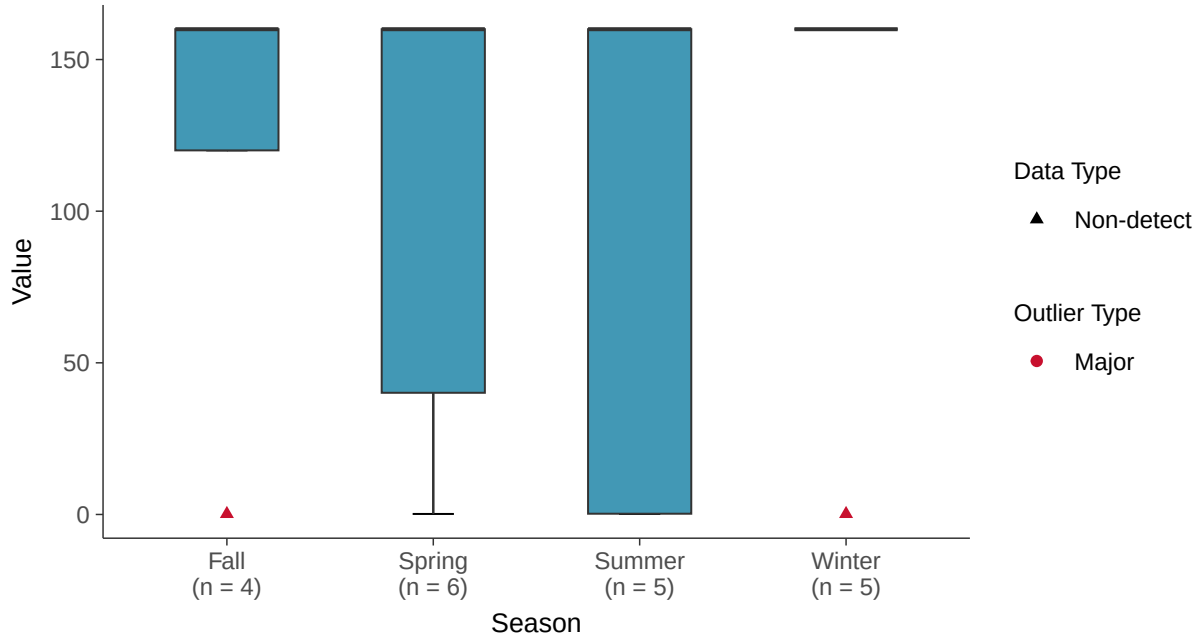
Boxplot

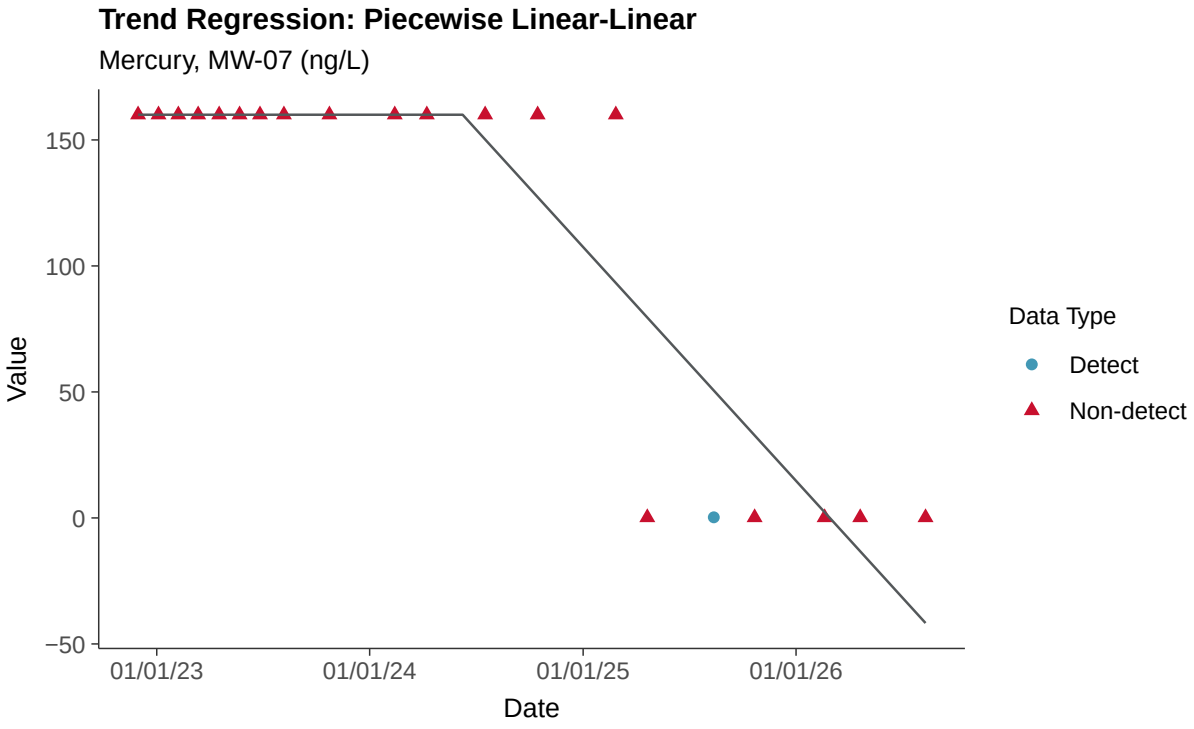
Mercury, MW-07 (ng/L)



Boxplot by Season

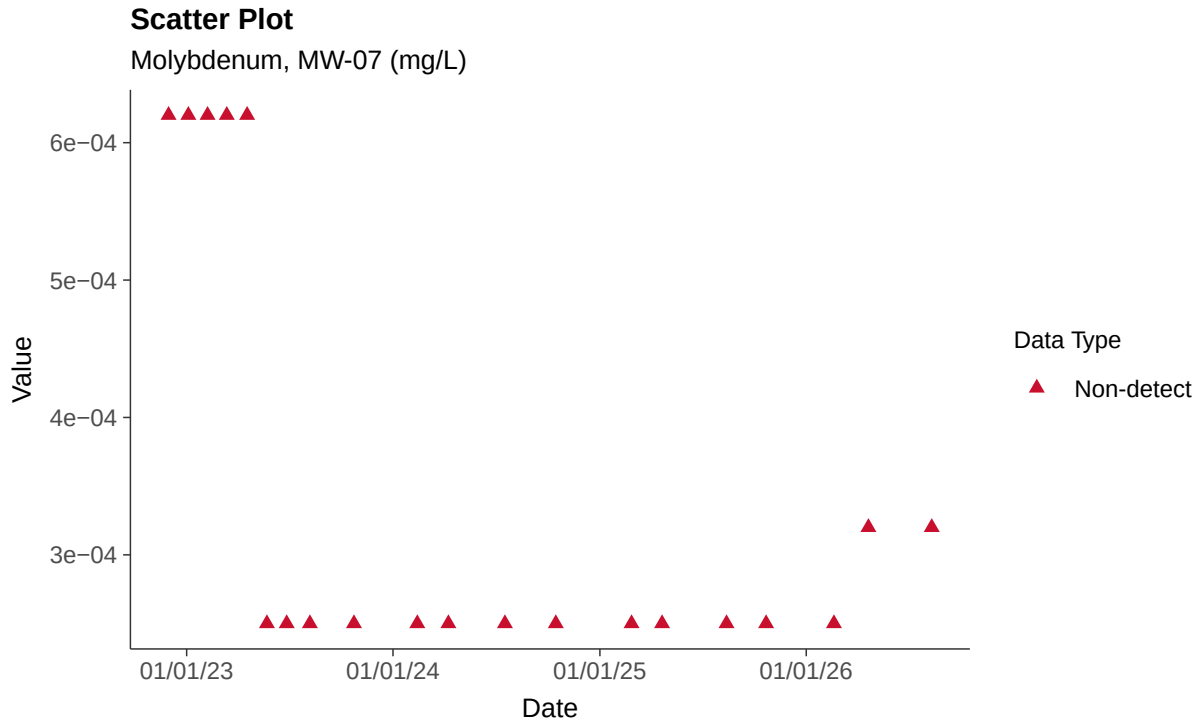
Mercury, MW-07 (ng/L)

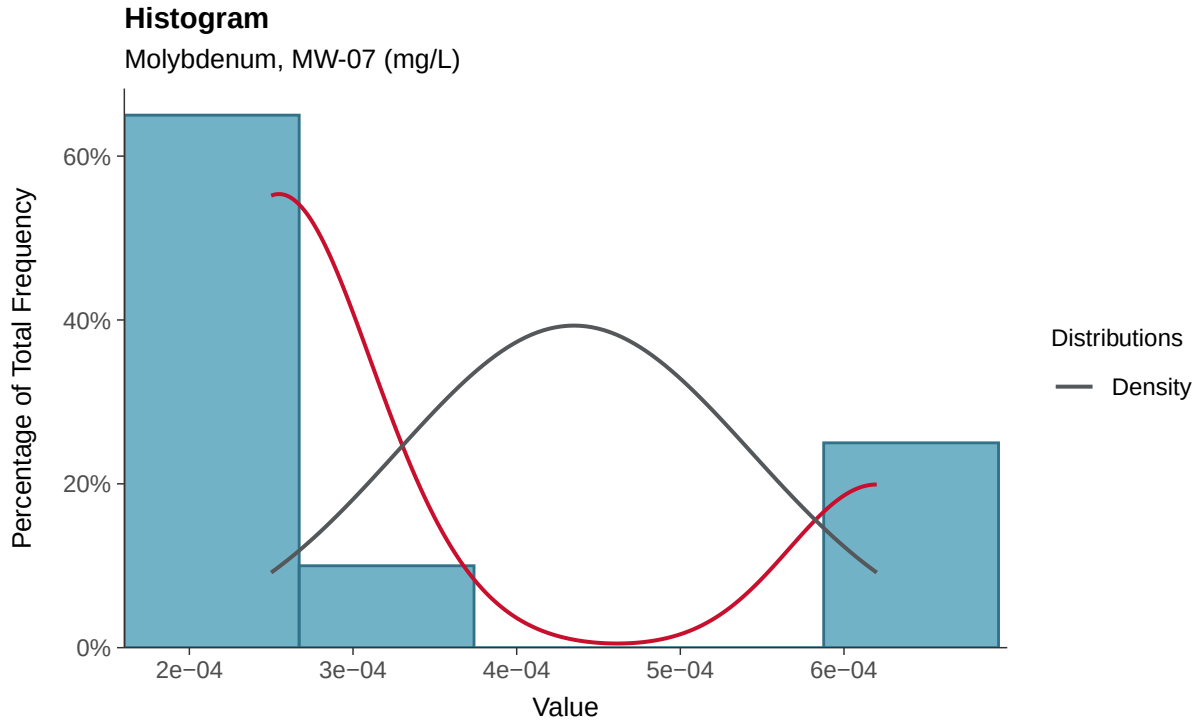



Trend Regression: Piecewise Linear-Linear
Mercury, MW-07 (ng/L)
Value
150
100
50
0
−50
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect
Non-detect

Appendix IV: Molybdenum, MW-07

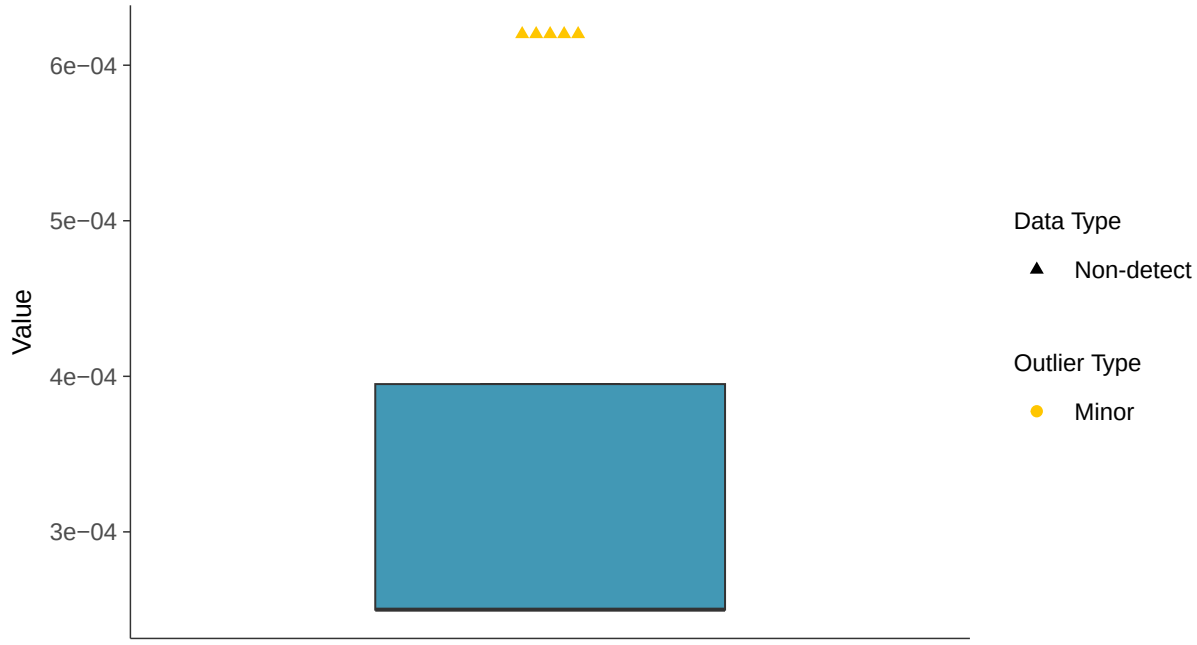
ID: 17_1_4_118





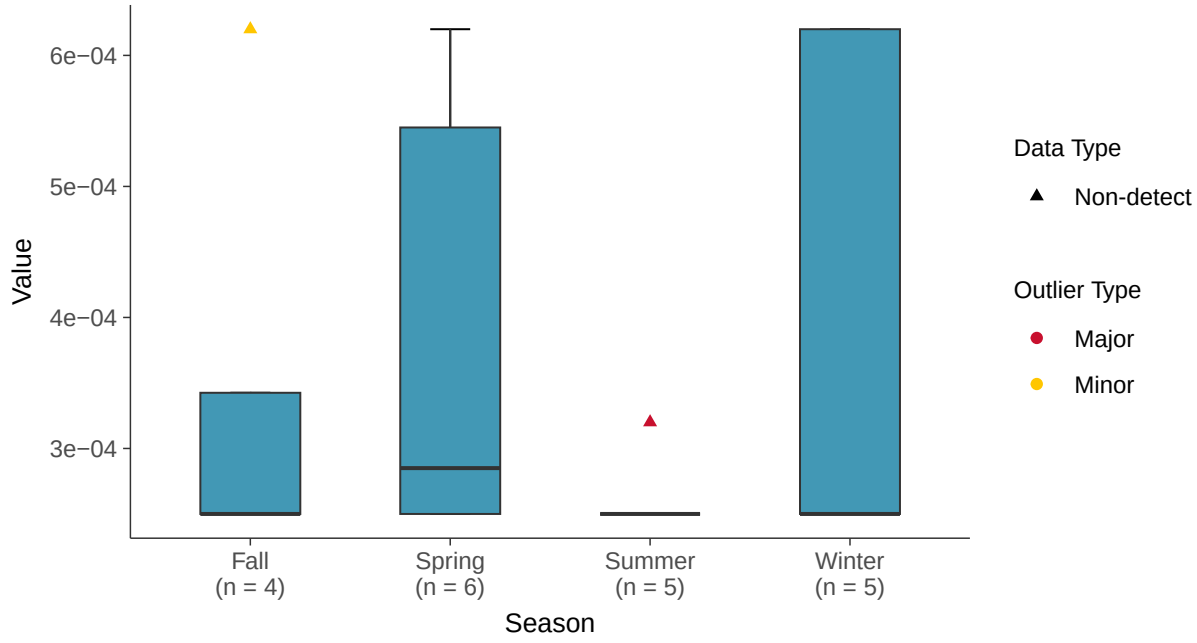
Boxplot

Molybdenum, MW-07 (mg/L)



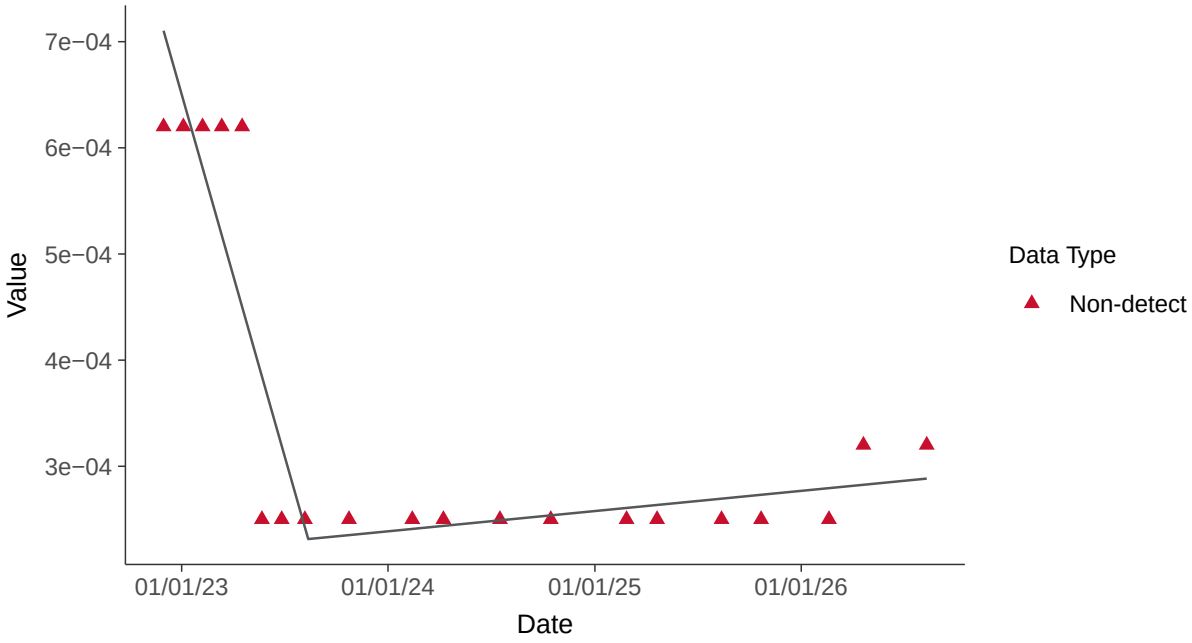
Boxplot by Season

Molybdenum, MW-07 (mg/L)



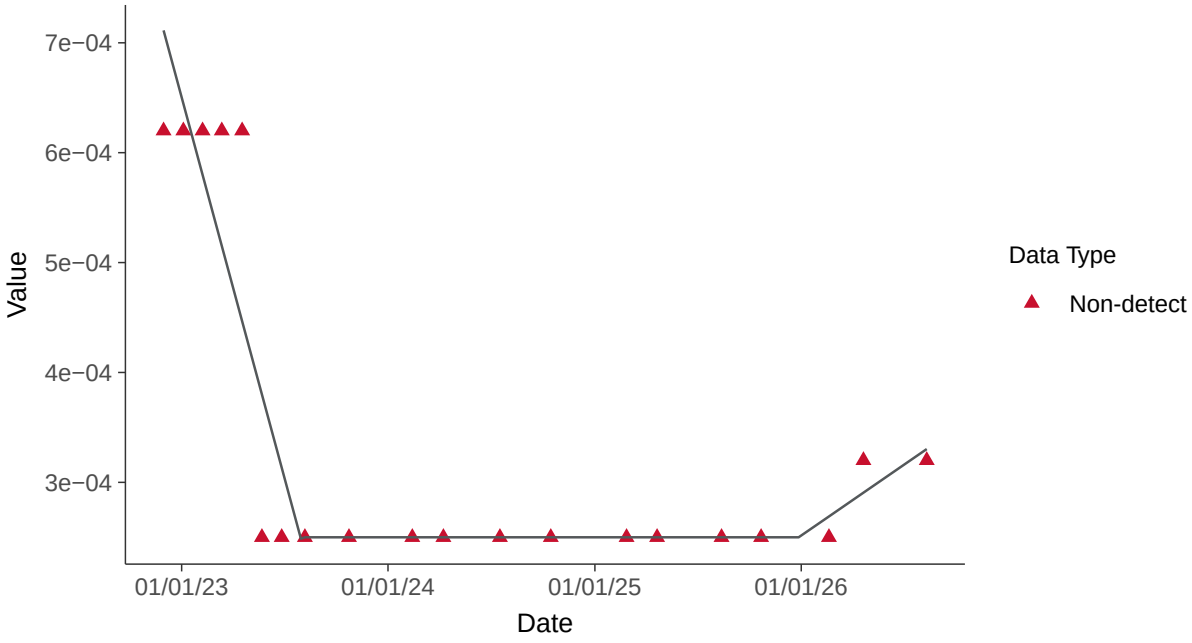
Trend Regression: Piecewise Linear-Linear

Molybdenum, MW-07 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Molybdenum, MW-07 (mg/L)

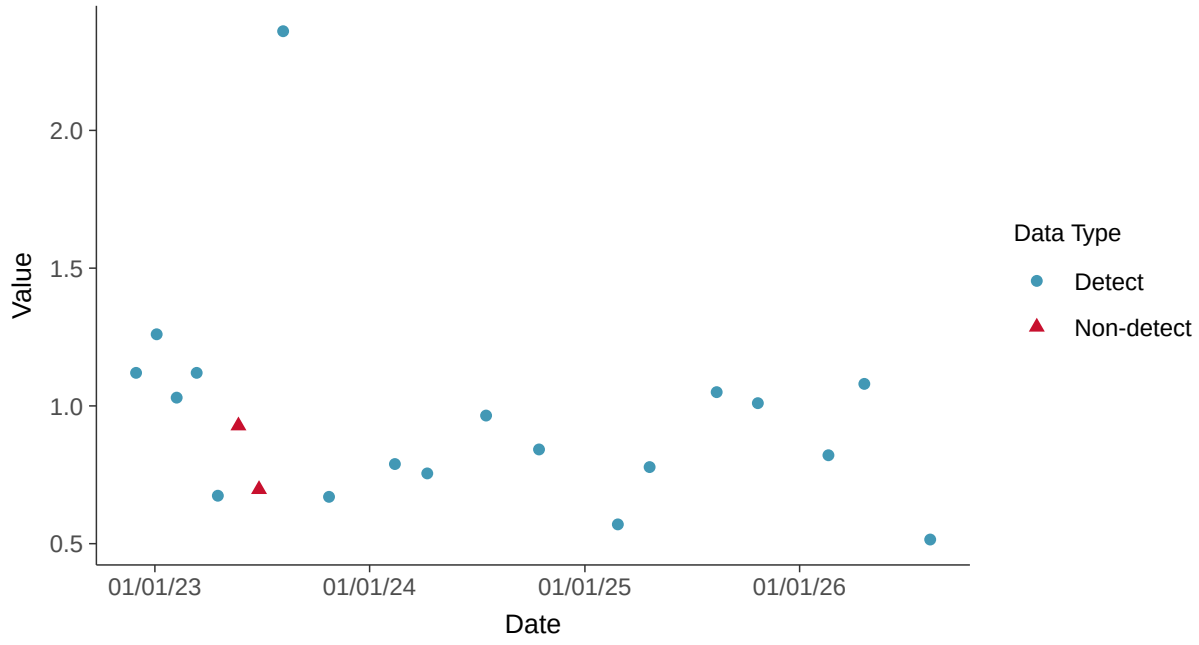


Appendix IV: Radium 226 and 228, MW-07

ID: 17_1_4_121

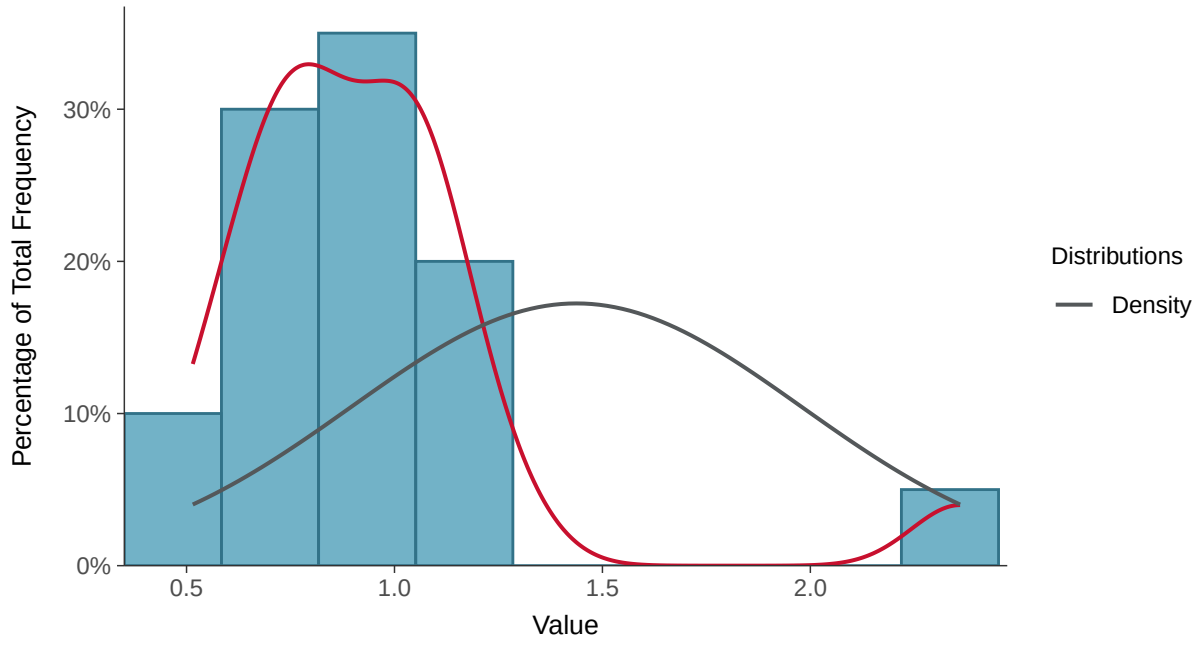
Scatter Plot

Radium 226 and 228, MW-07 (pCi/L)



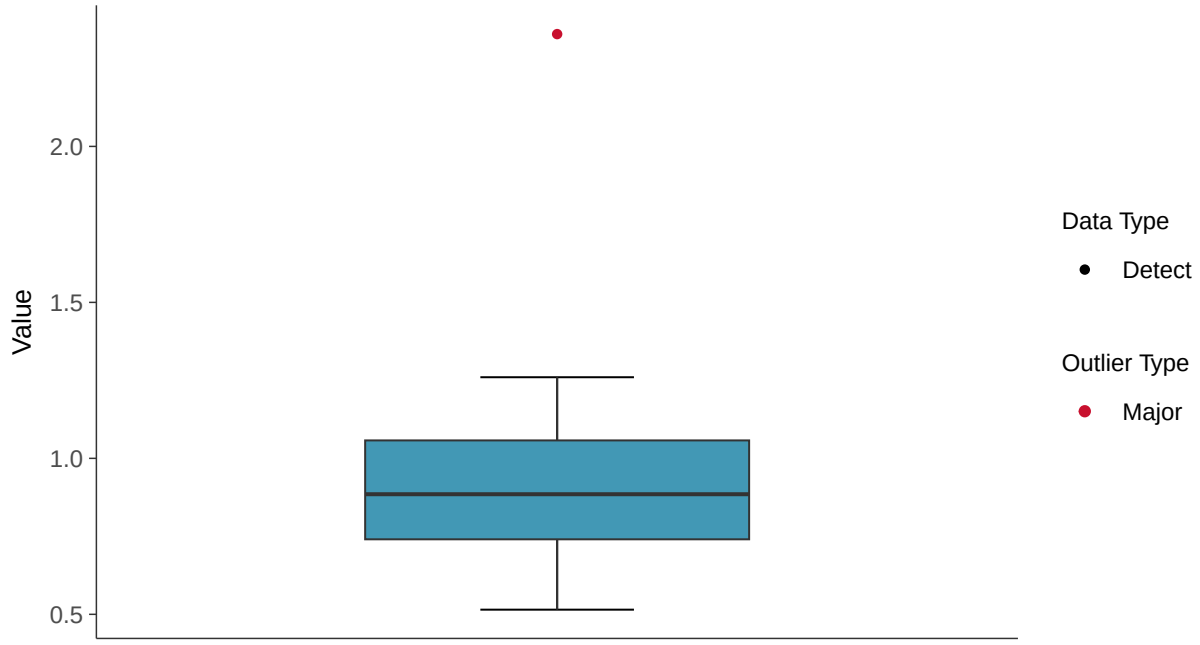
Histogram

Radium 226 and 228, MW-07 (pCi/L)



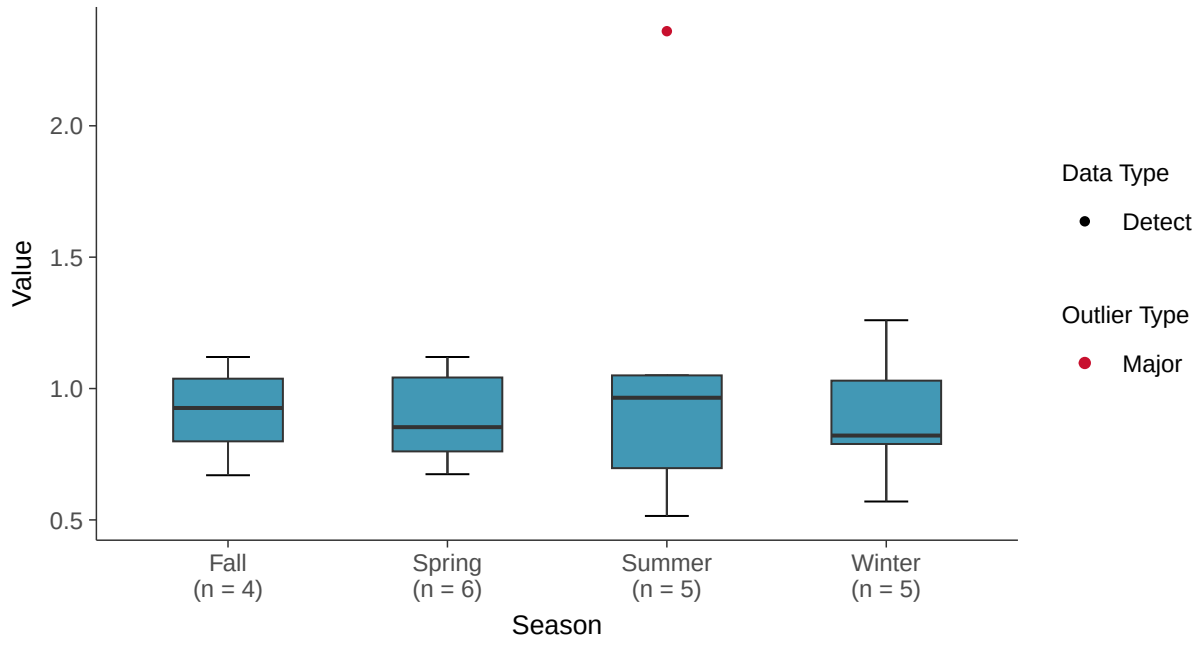
Boxplot

Radium 226 and 228, MW-07 (pCi/L)



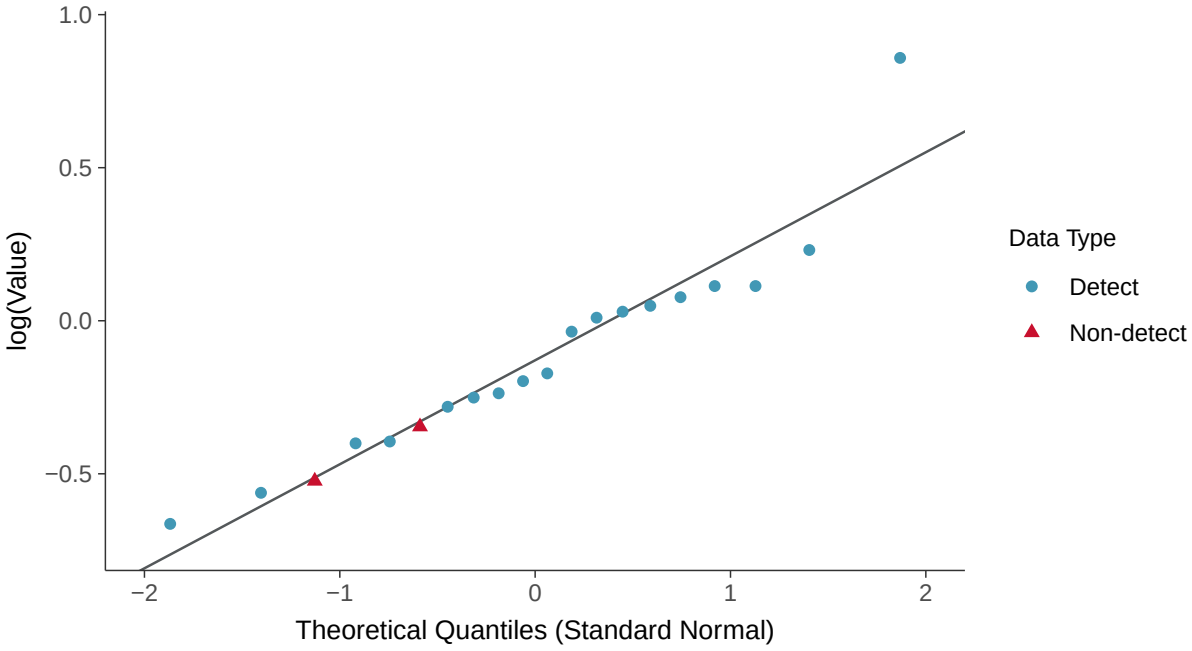
Boxplot by Season

Radium 226 and 228, MW-07 (pCi/L)



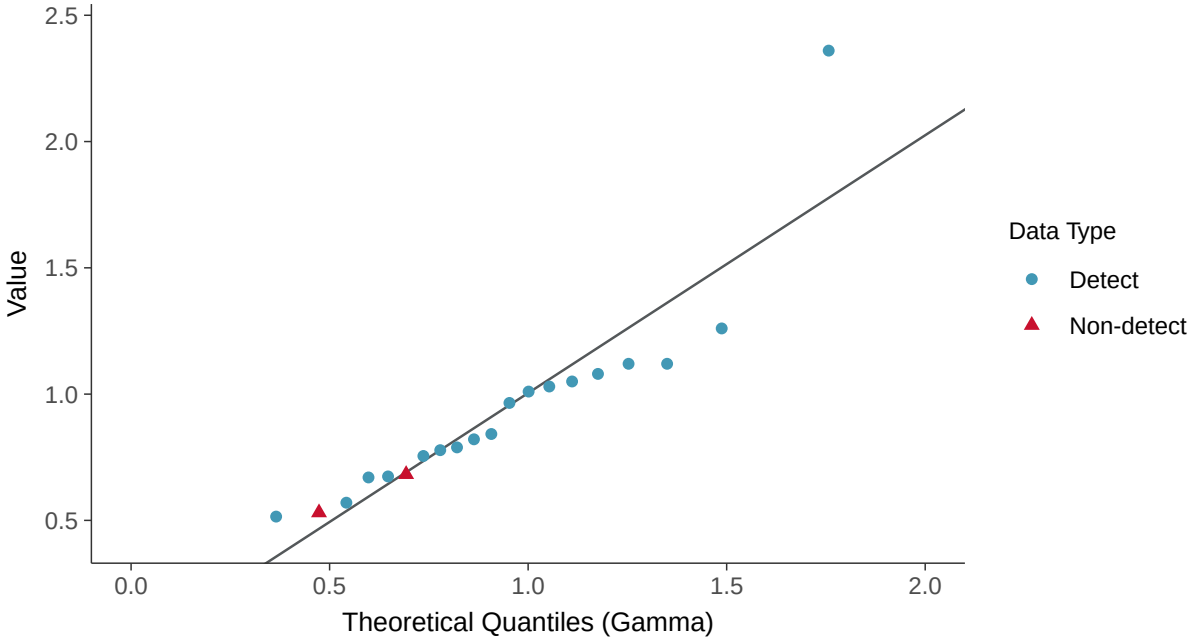
Lognormal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-07 (pCi/L)



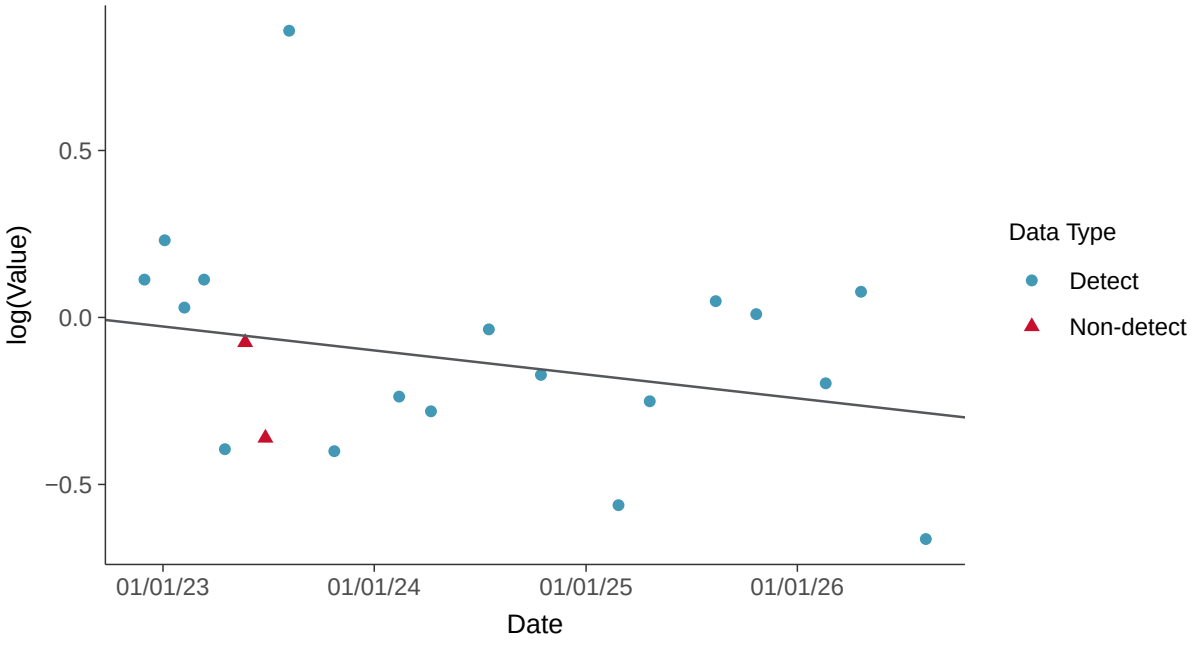
Gamma Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-07 (pCi/L)



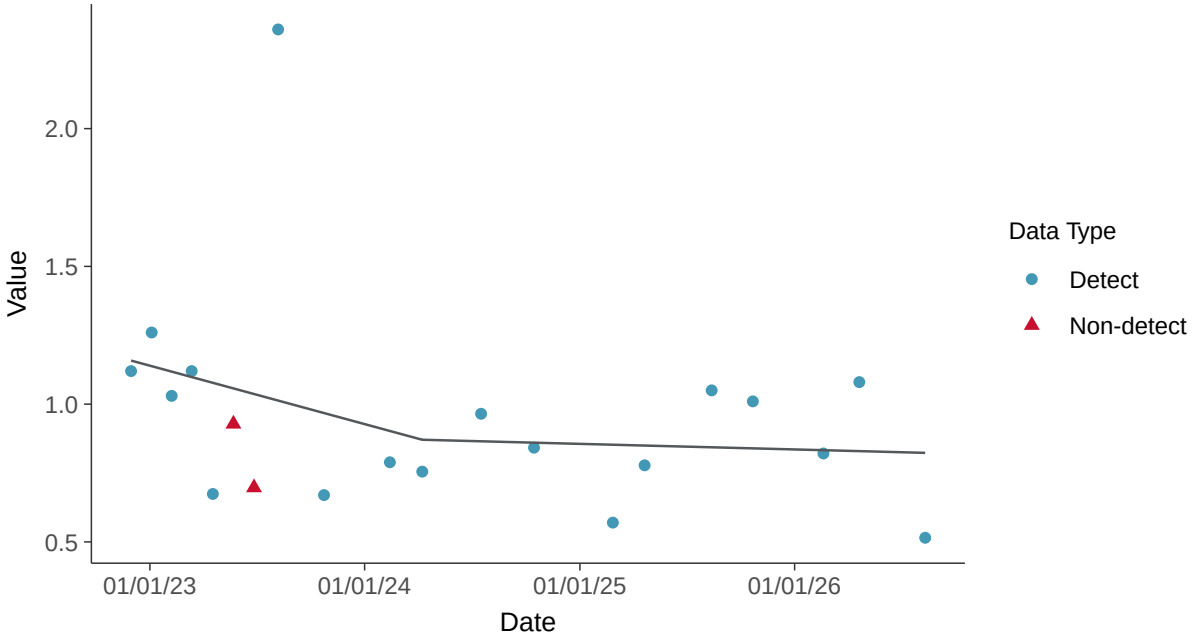
Trend Regression: Lognormal MLE

Radium 226 and 228, MW-07 (pCi/L)



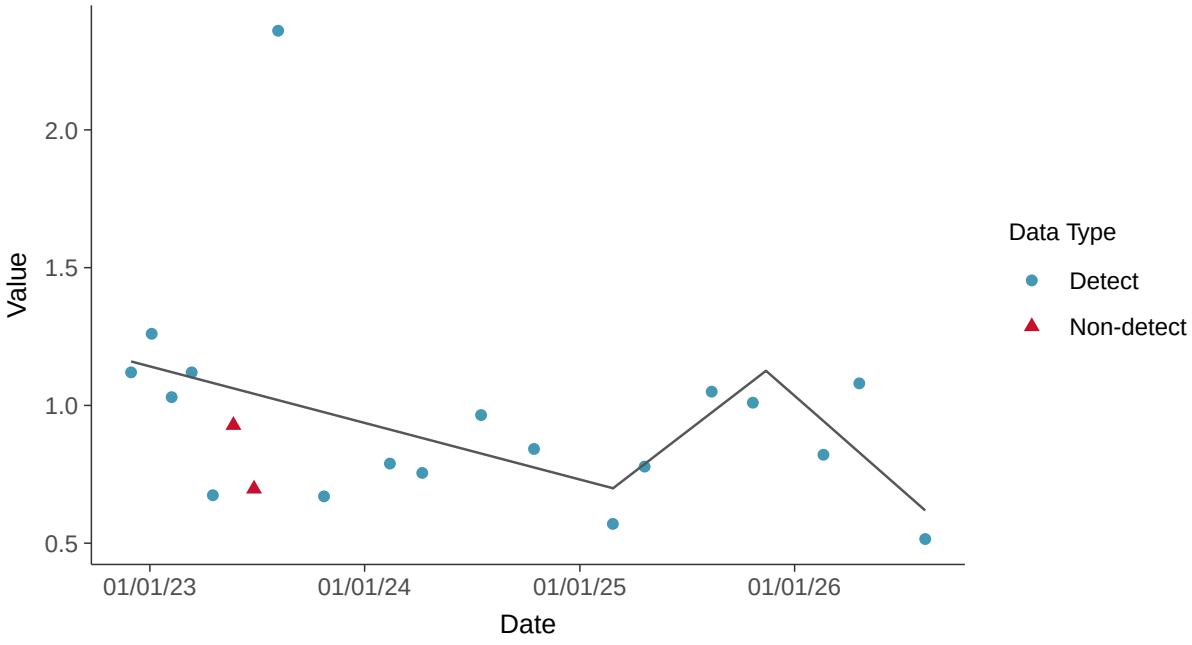
Trend Regression: Piecewise Linear-Linear

Radium 226 and 228, MW-07 (pCi/L)



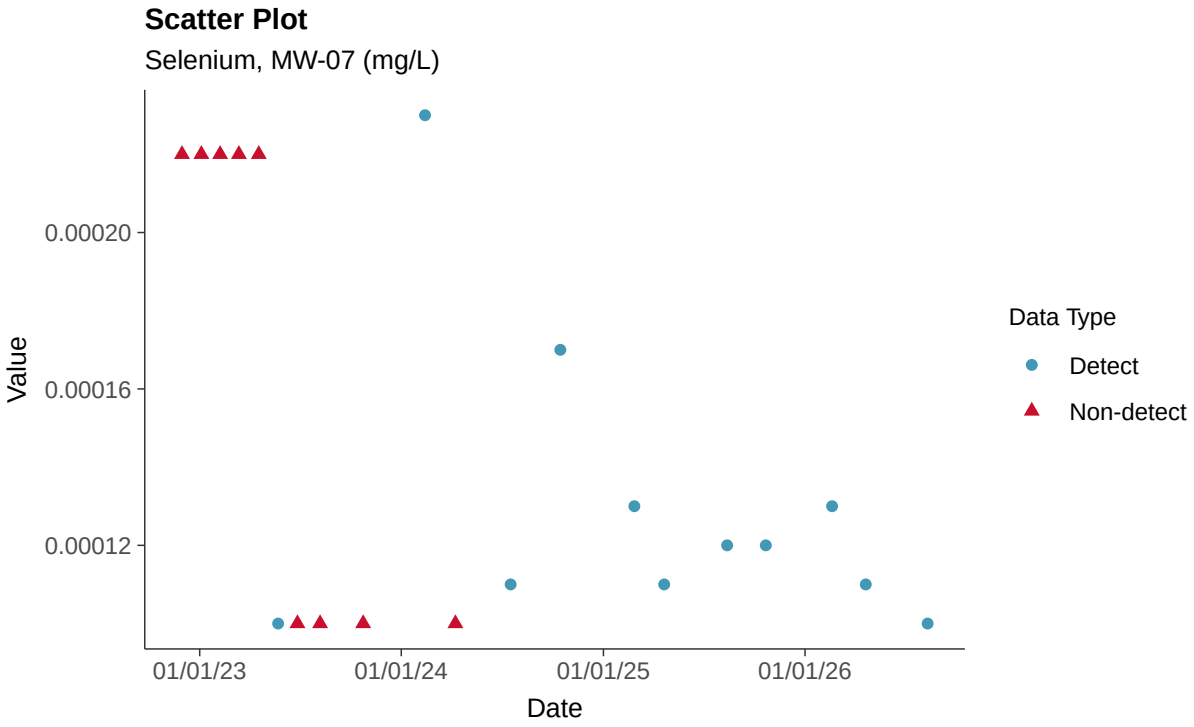
Trend Regression: Piecewise Linear-Linear-Linear

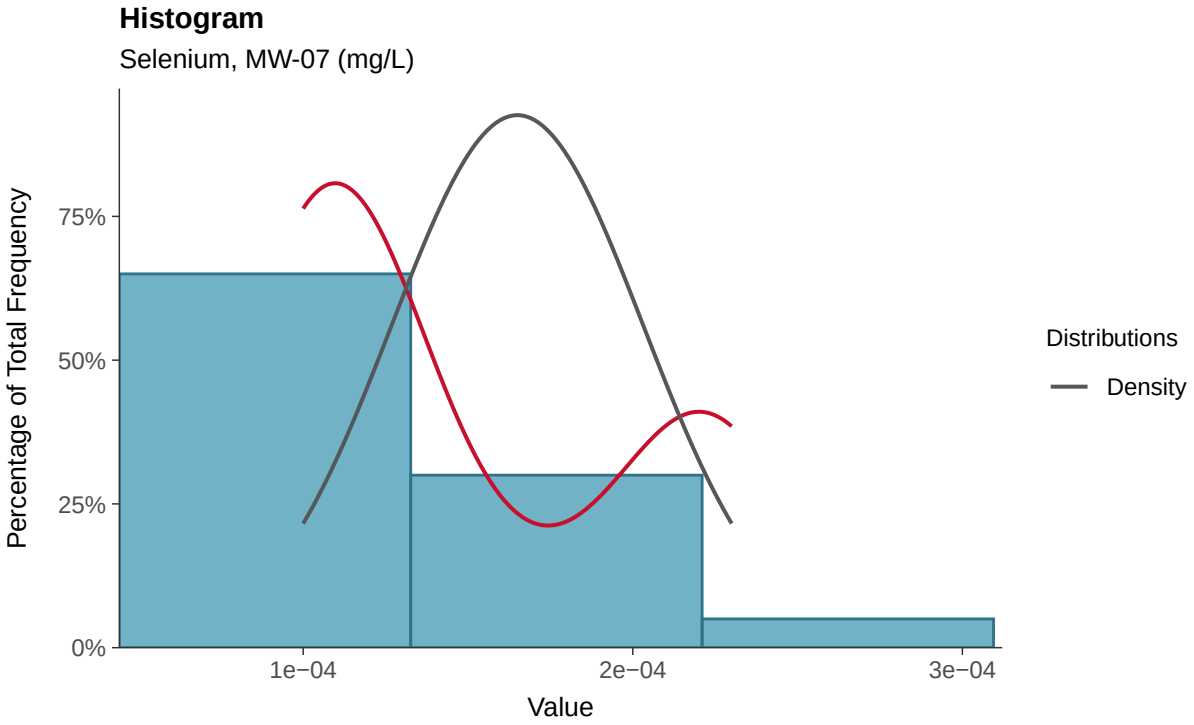
Radium 226 and 228, MW-07 (pCi/L)



Appendix IV: Selenium, MW-07

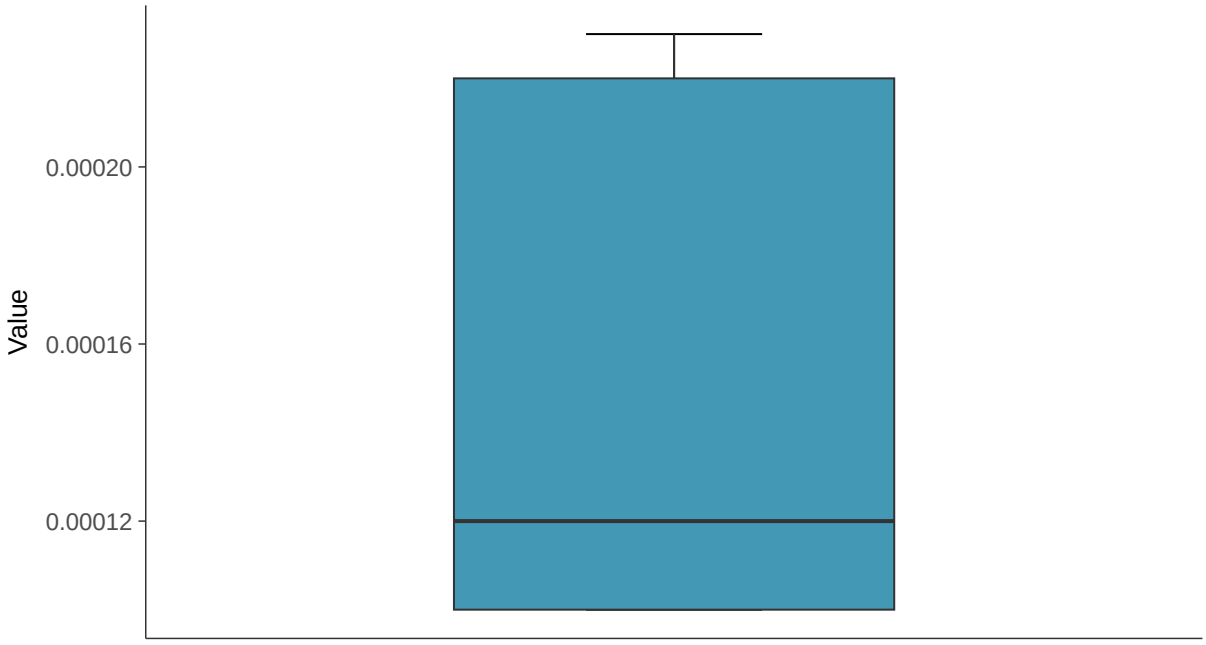
ID: 17_1_4_122





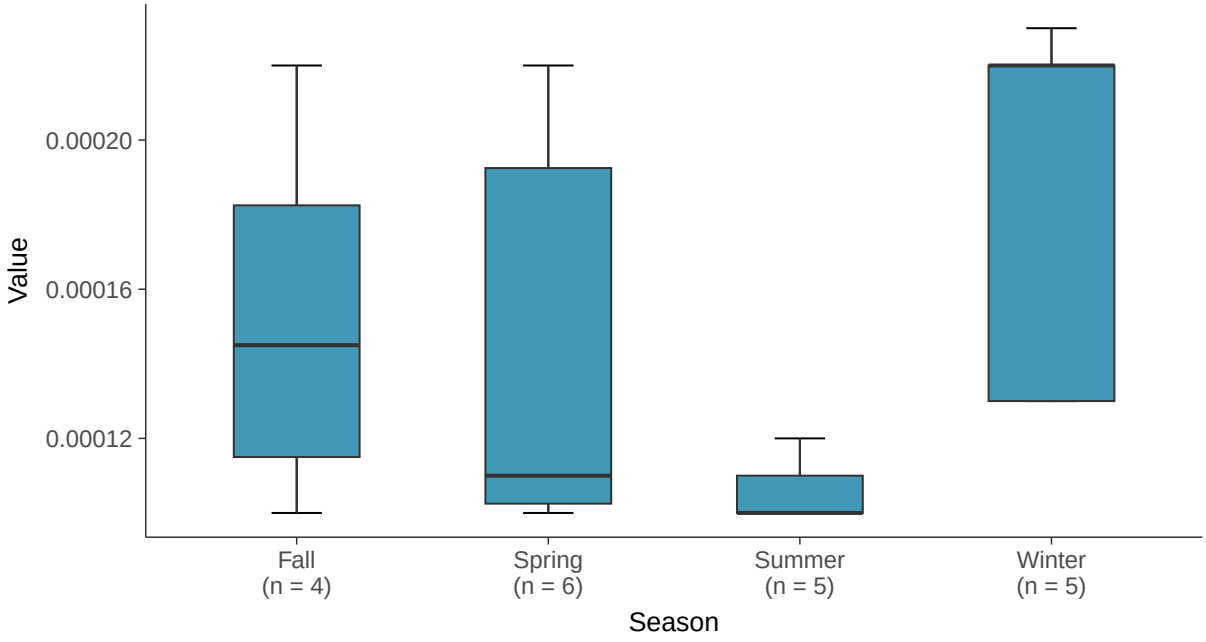
Boxplot

Selenium, MW-07 (mg/L)



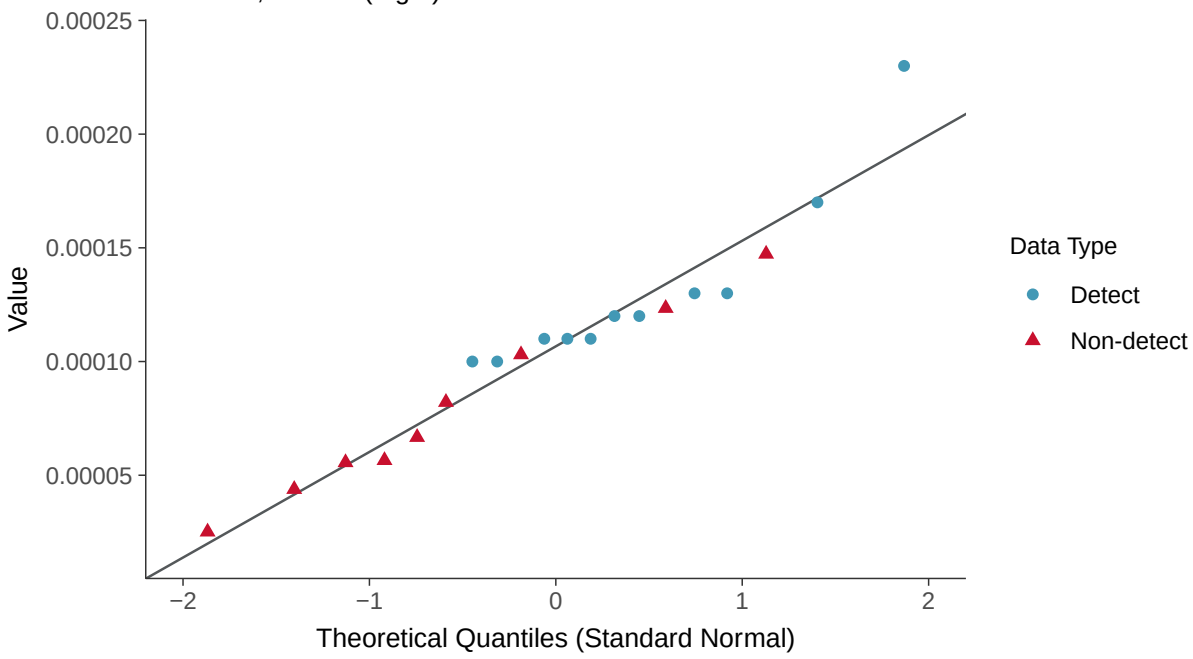
Boxplot by Season

Selenium, MW-07 (mg/L)



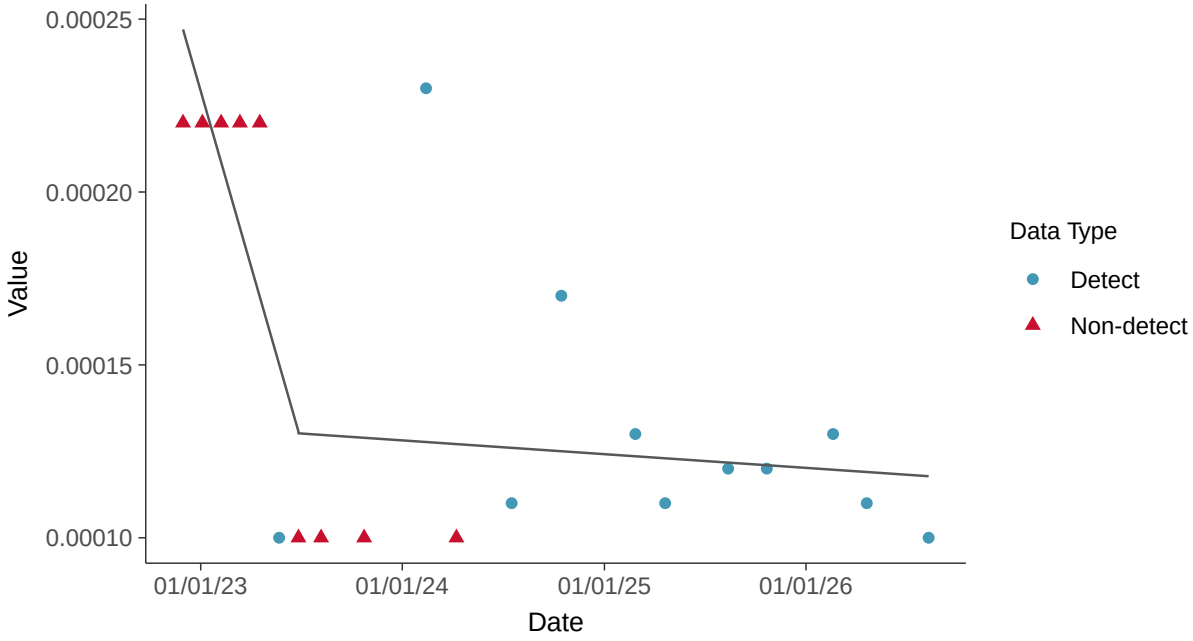
Normal Q-Q plot using ROS Imputed Estimates

Selenium, MW-07 (mg/L)



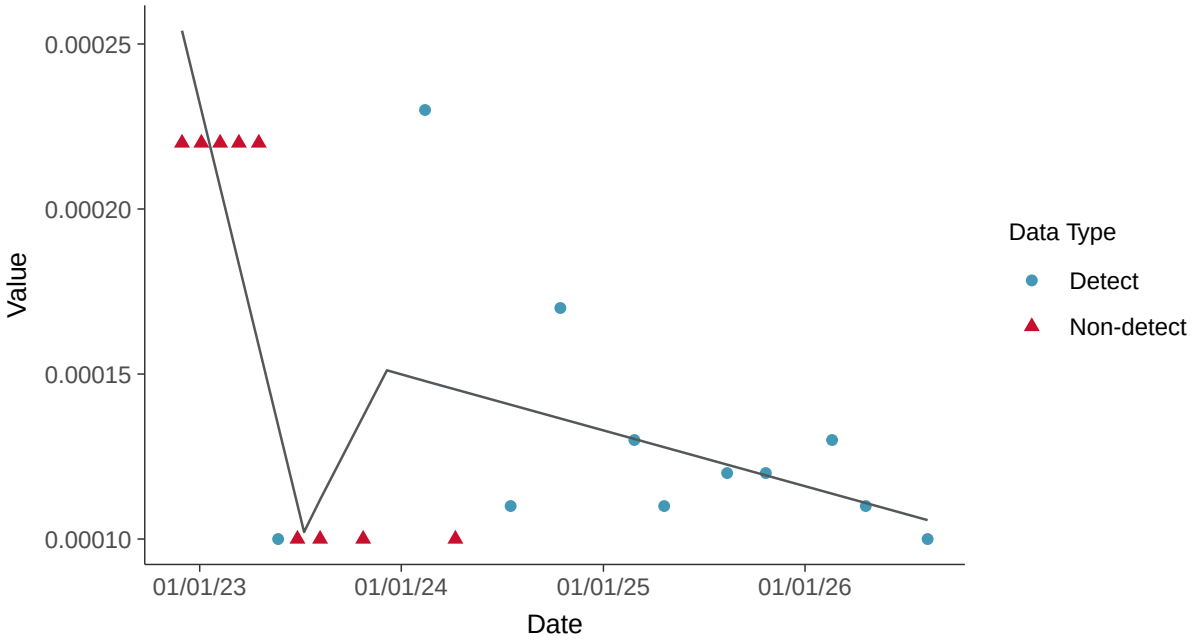
Trend Regression: Piecewise Linear-Linear

Selenium, MW-07 (mg/L)



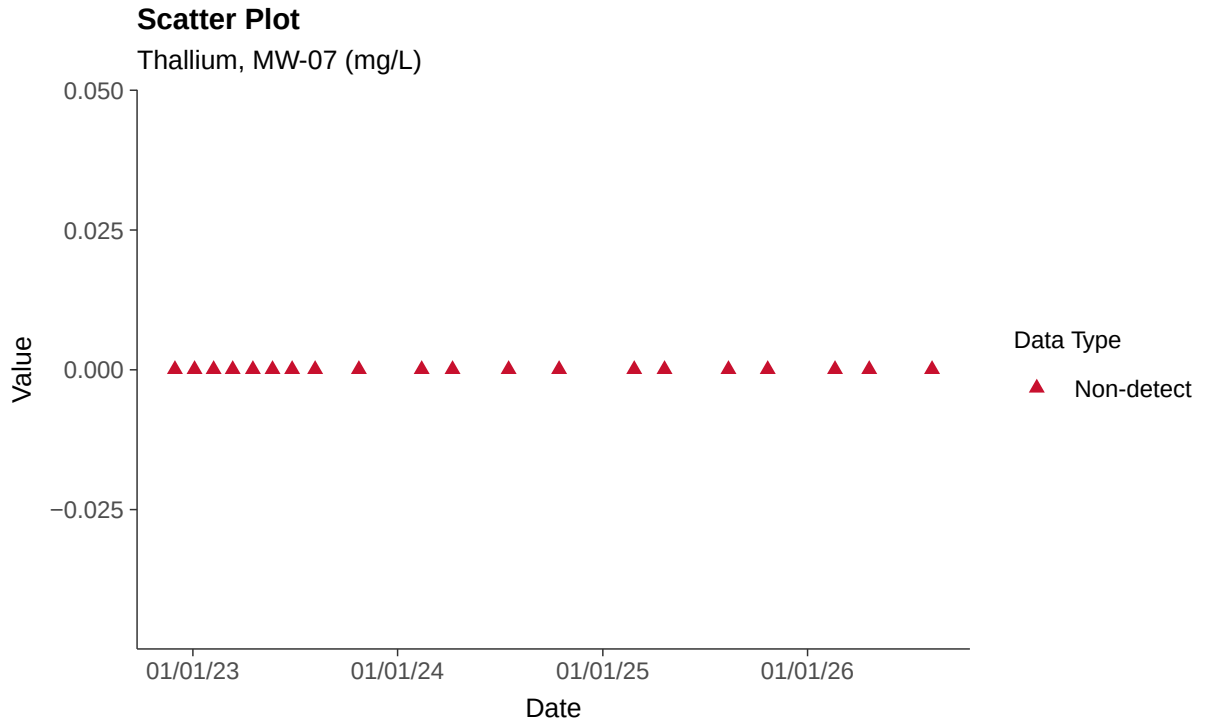
Trend Regression: Piecewise Linear-Linear-Linear

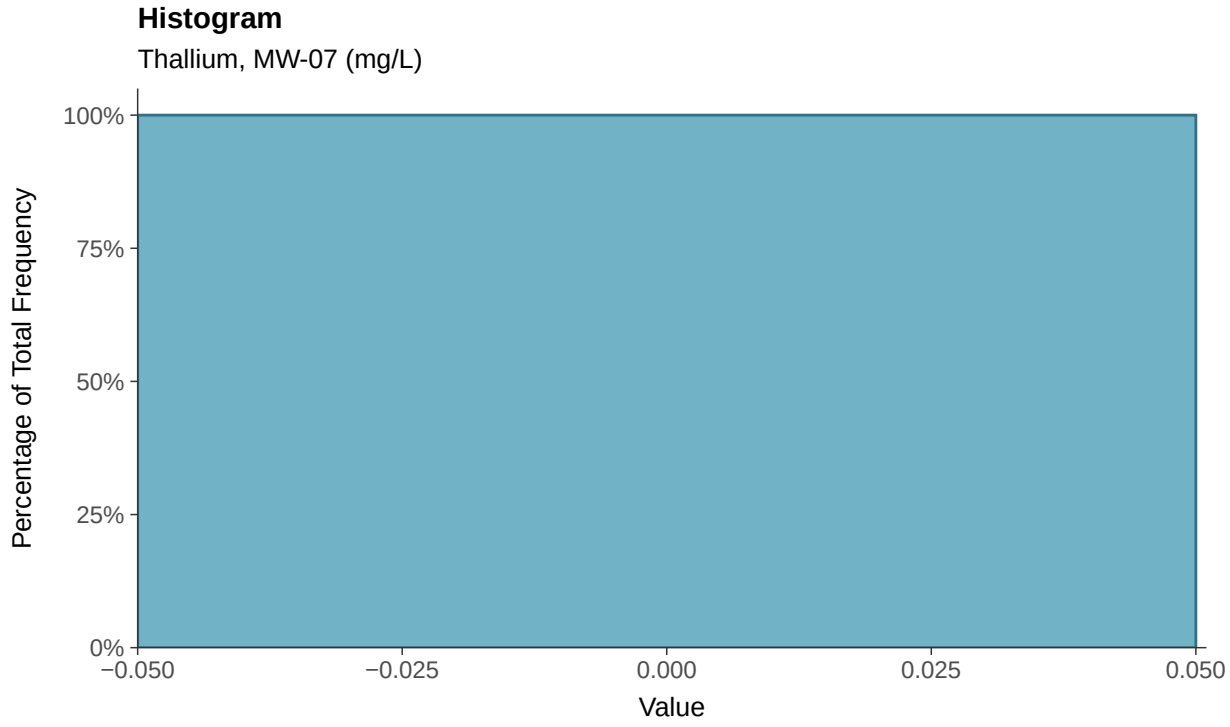
Selenium, MW-07 (mg/L)



Appendix IV: Thallium, MW-07

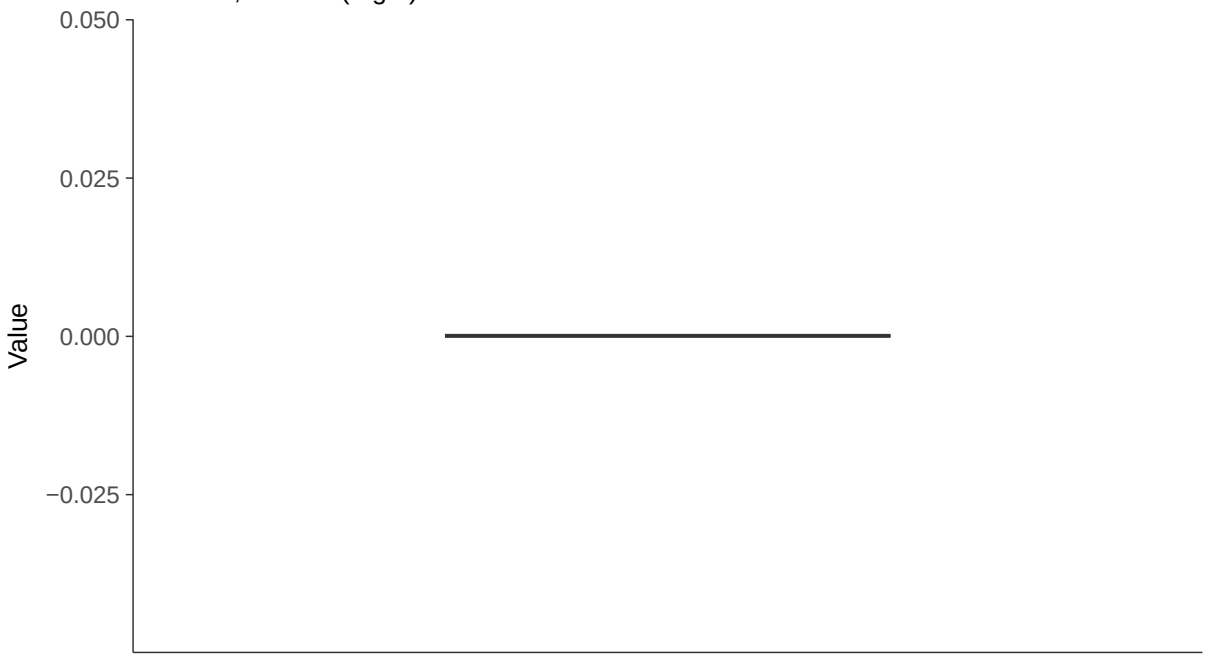
ID: 17_1_4_125





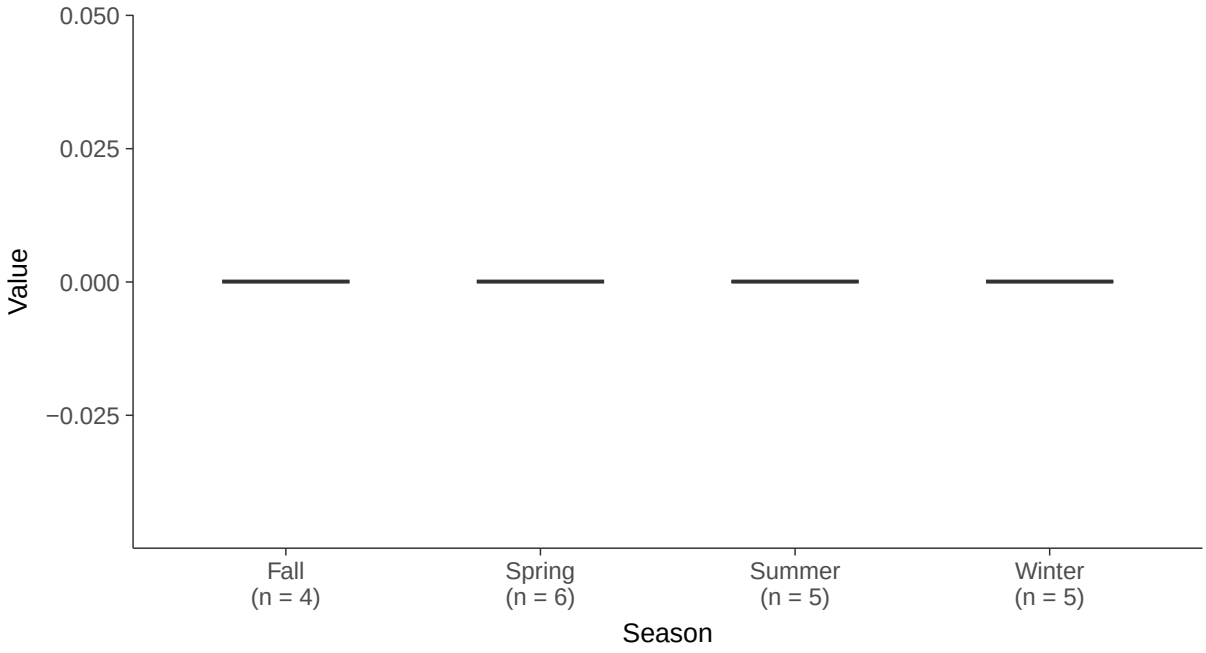
Boxplot

Thallium, MW-07 (mg/L)



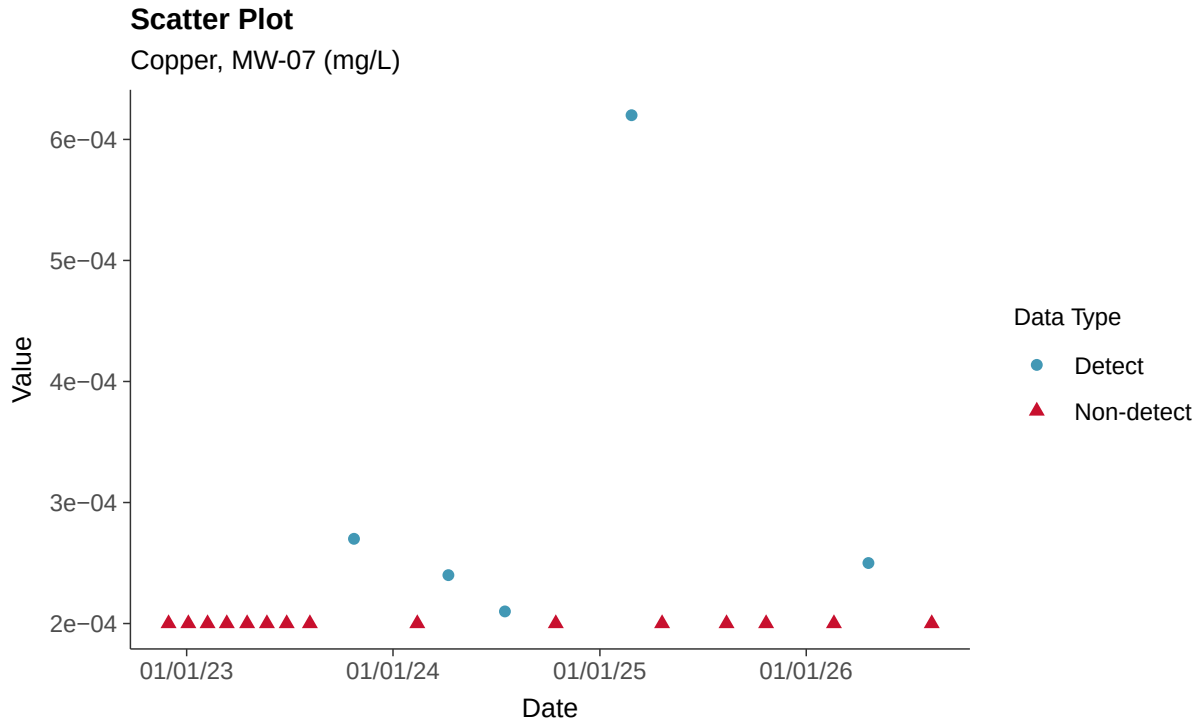
Boxplot by Season

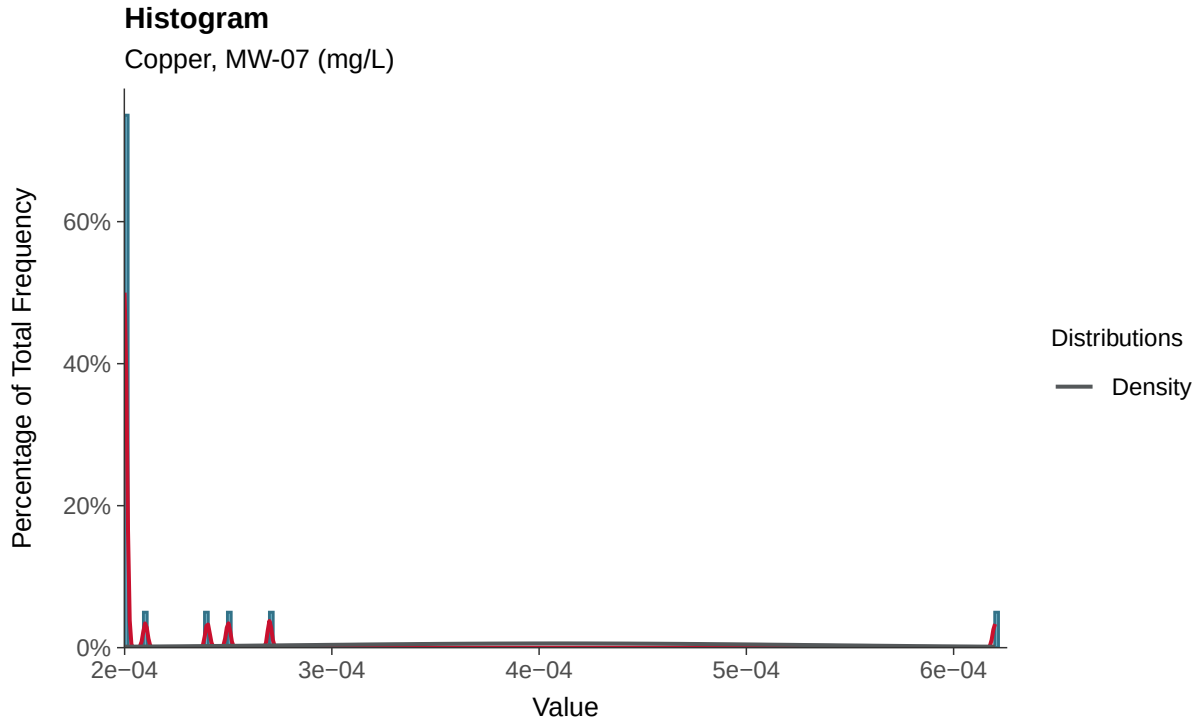
Thallium, MW-07 (mg/L)



Part 115: Copper, MW-07

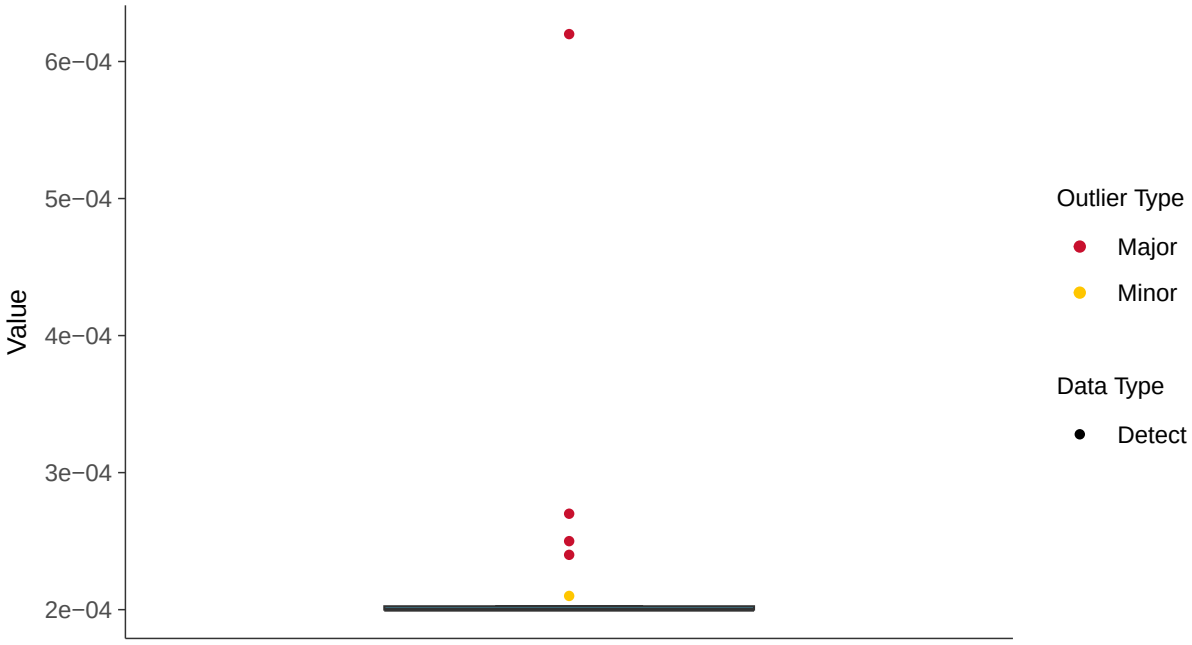
ID: 17_1_5_111





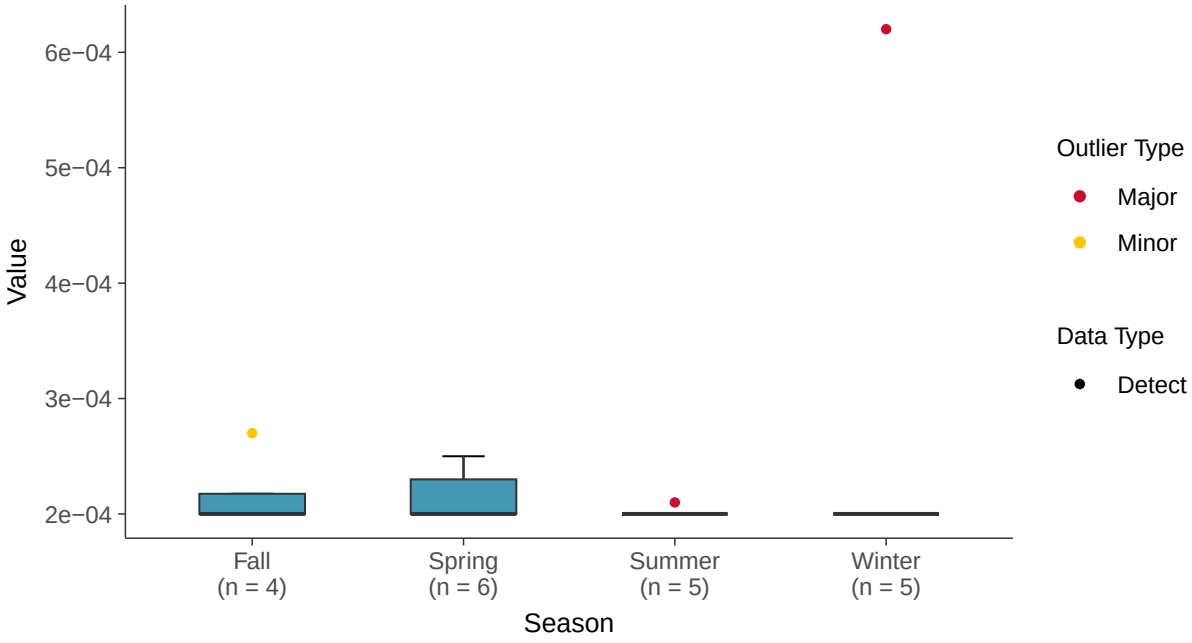
Boxplot

Copper, MW-07 (mg/L)



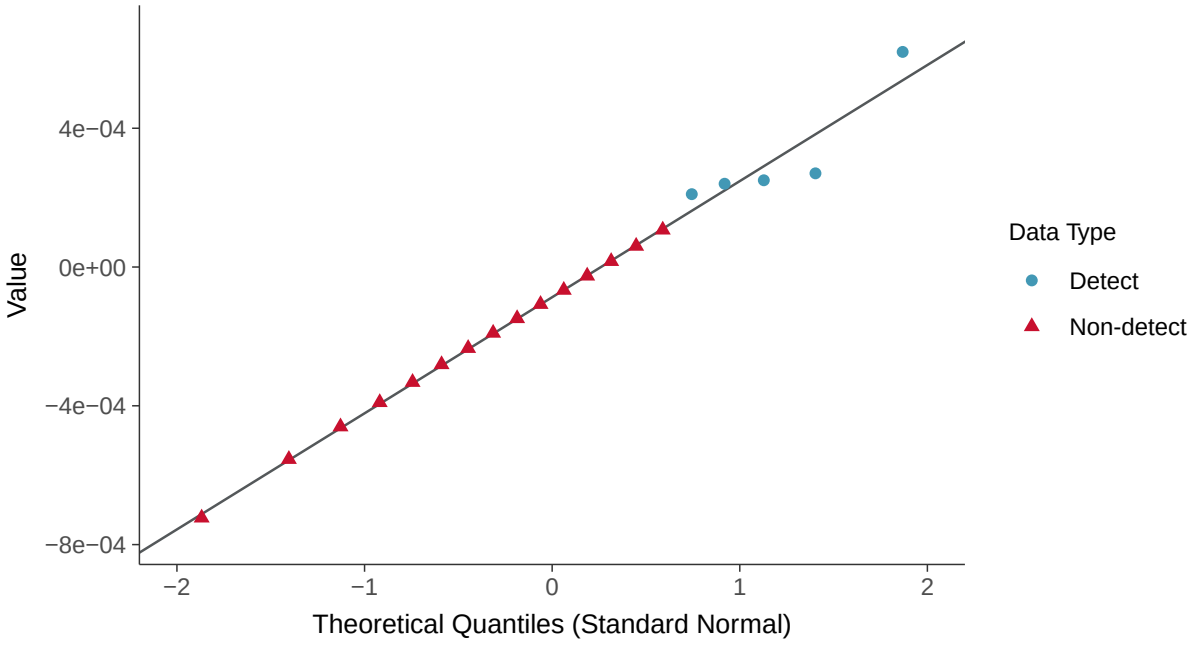
Boxplot by Season

Copper, MW-07 (mg/L)



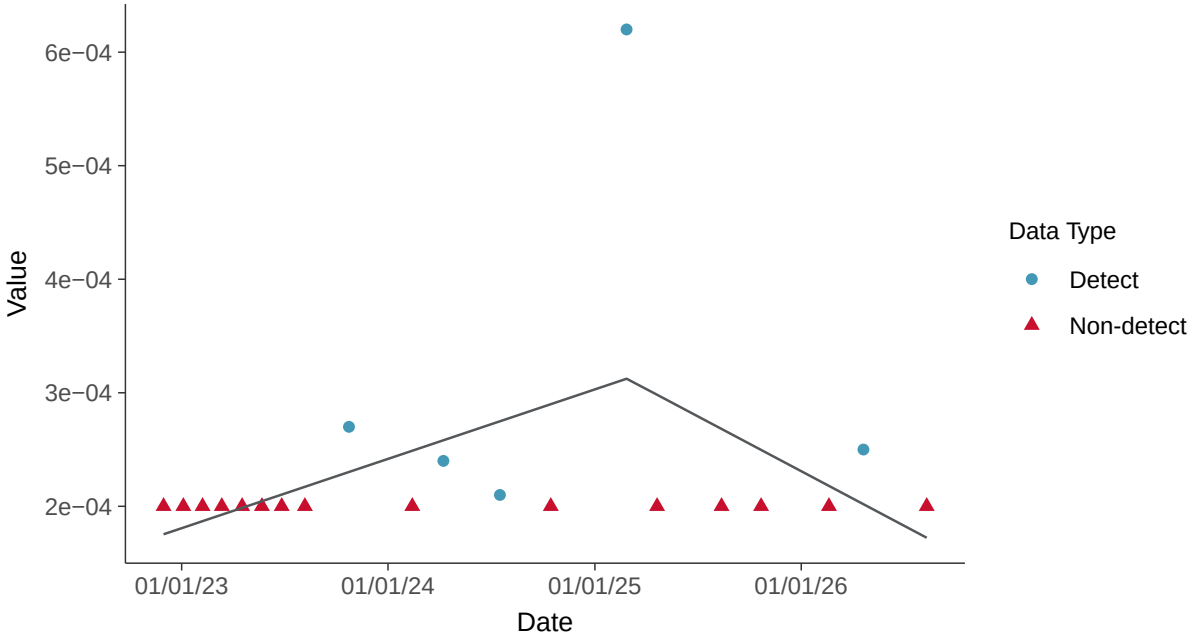
Normal Q-Q plot using ROS Imputed Estimates

Copper, MW-07 (mg/L)



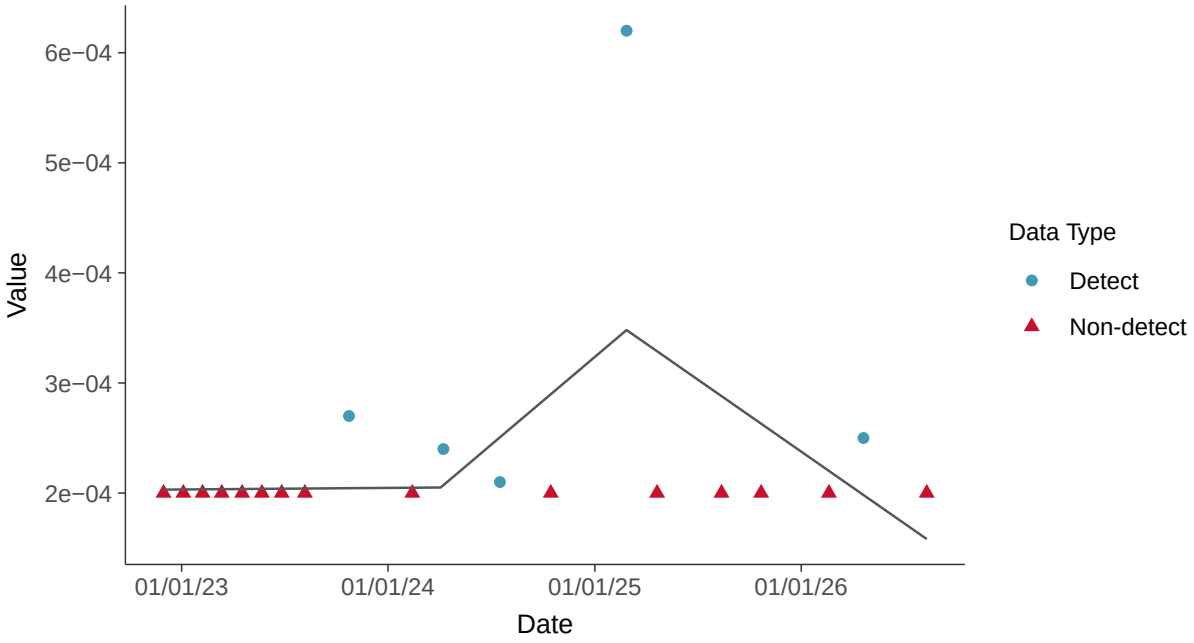
Trend Regression: Piecewise Linear-Linear

Copper, MW-07 (mg/L)



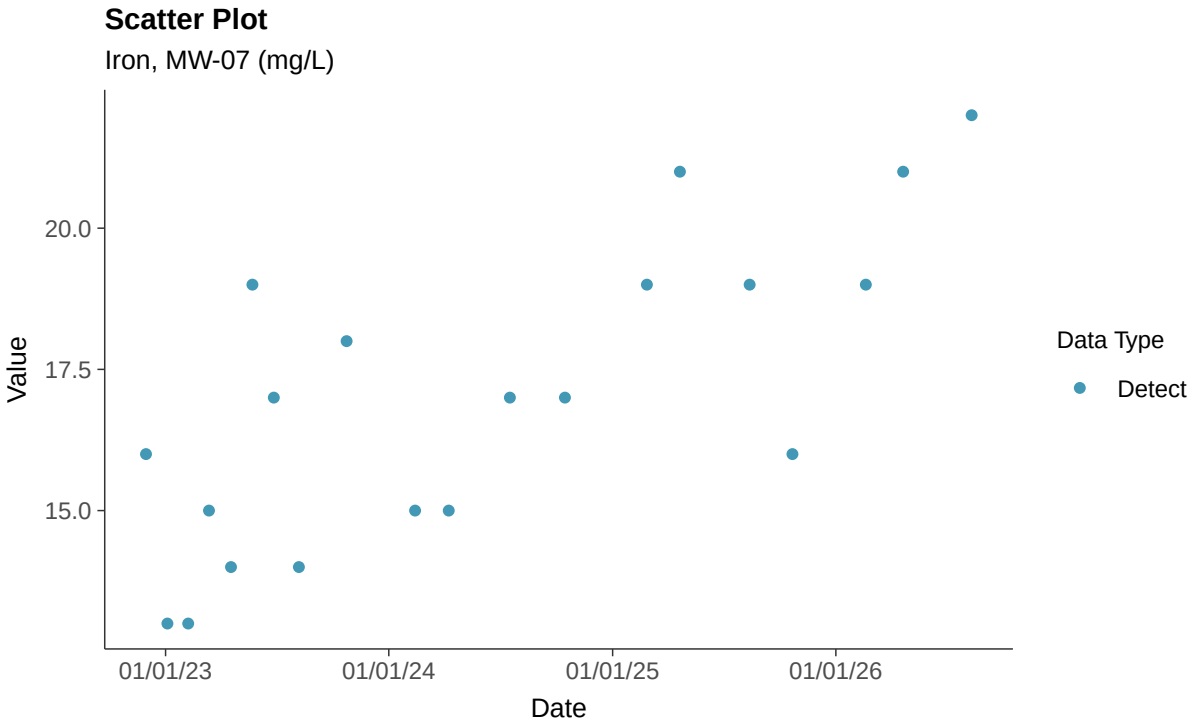
Trend Regression: Piecewise Linear-Linear-Linear

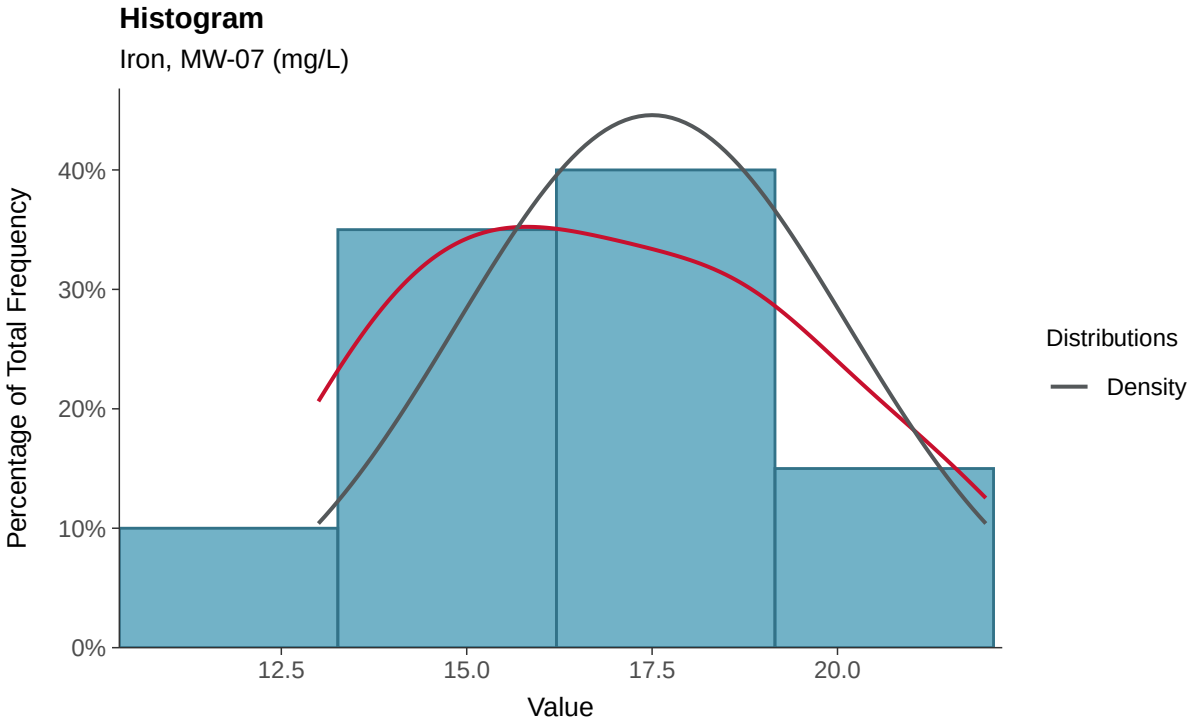
Copper, MW-07 (mg/L)



Part 115: Iron, MW-07

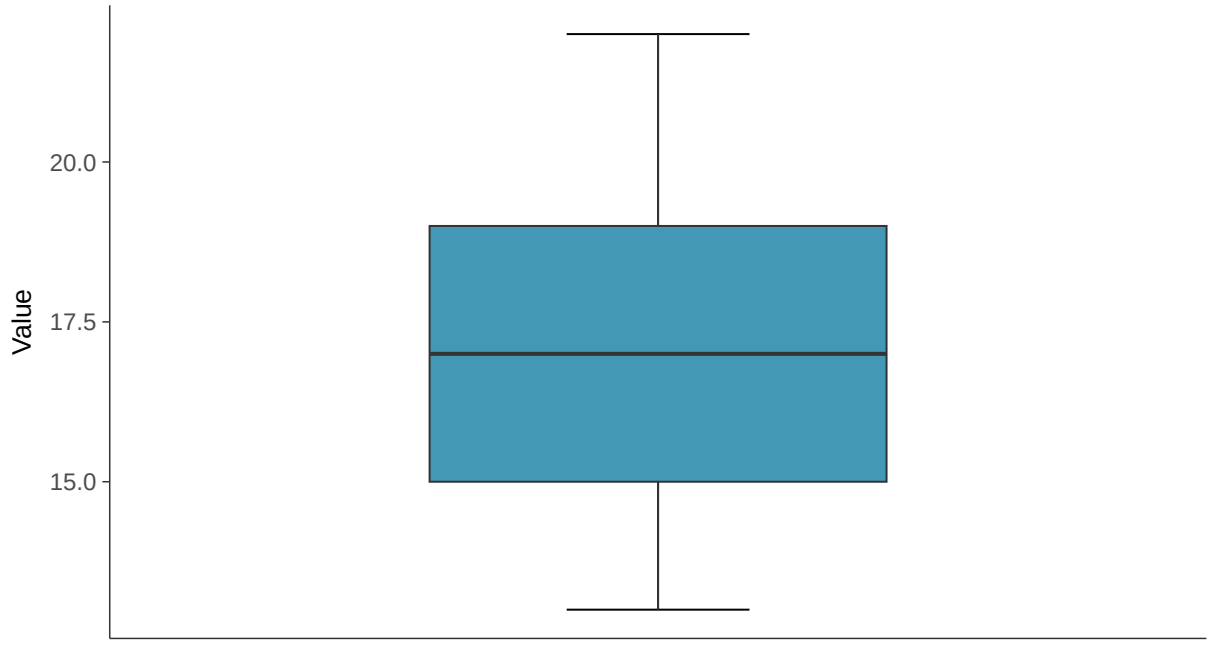
ID: 17_1_5_114





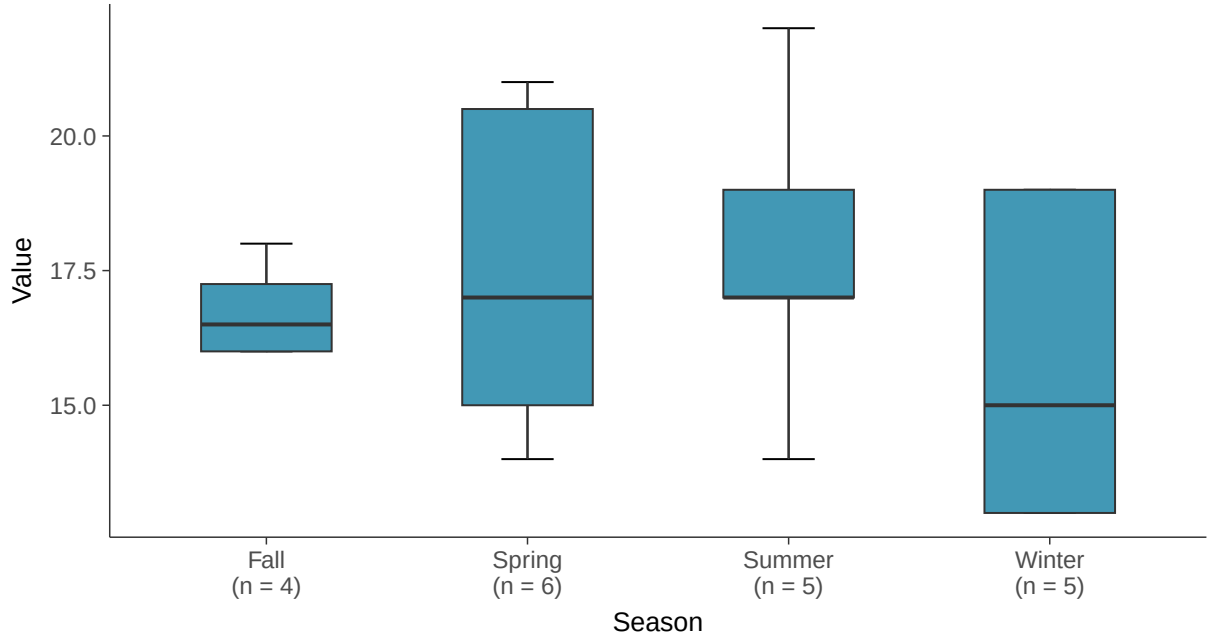
Boxplot

Iron, MW-07 (mg/L)



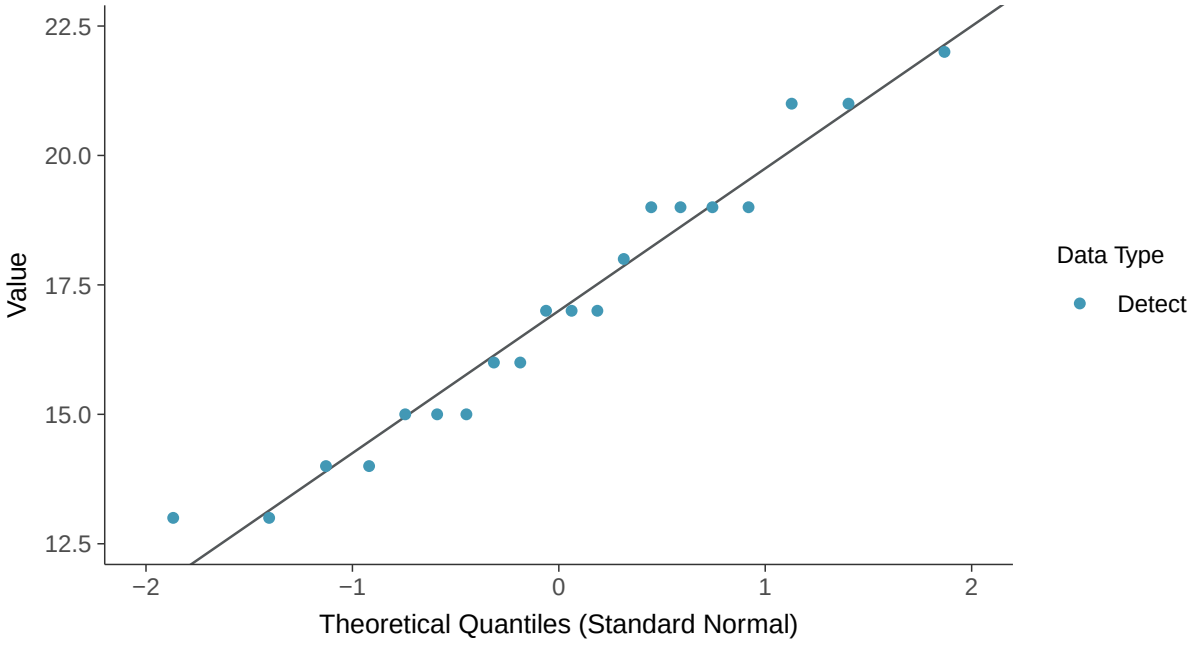
Boxplot by Season

Iron, MW-07 (mg/L)



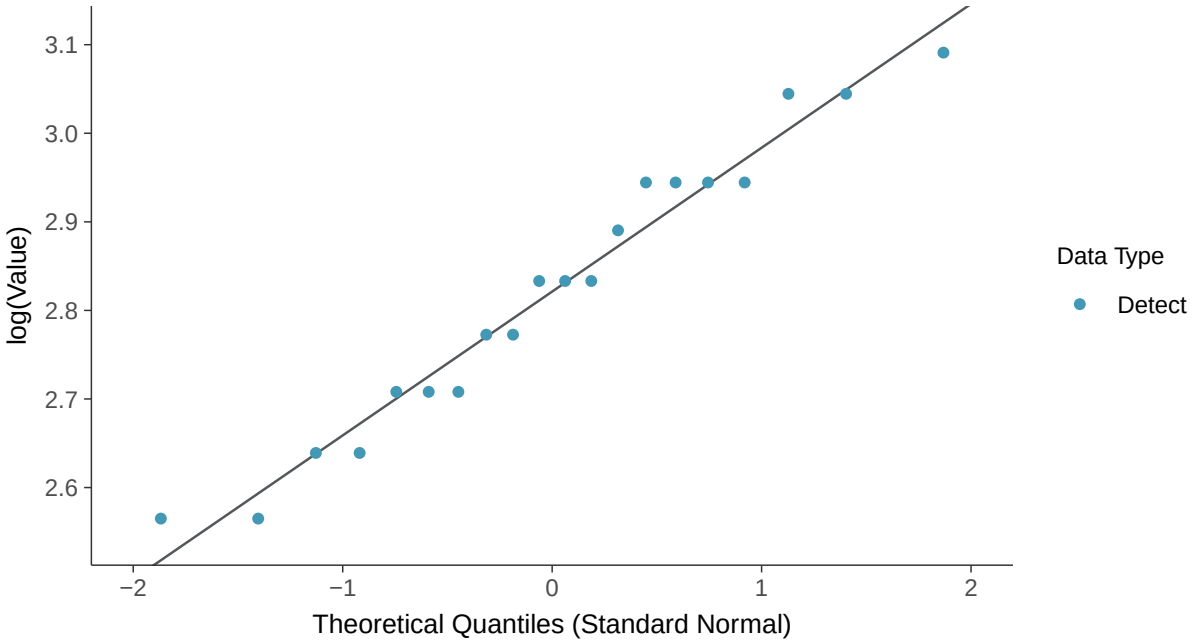
Normal Q-Q plot

Iron, MW-07 (mg/L)



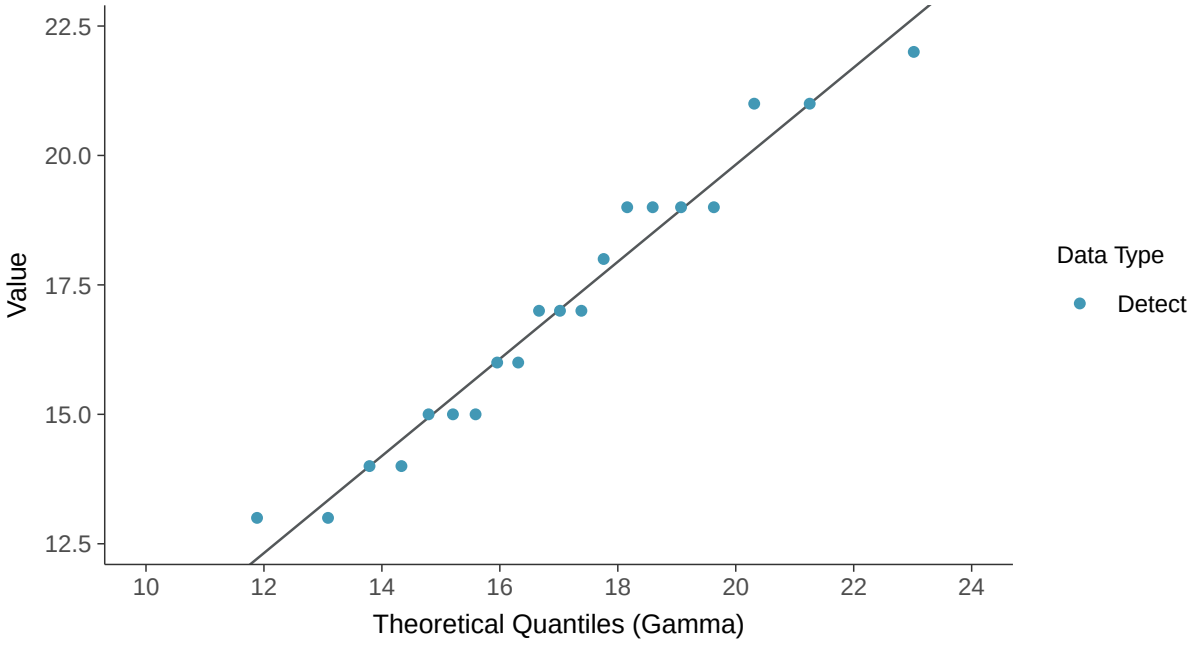
Lognormal Q-Q plot

Iron, MW-07 (mg/L)



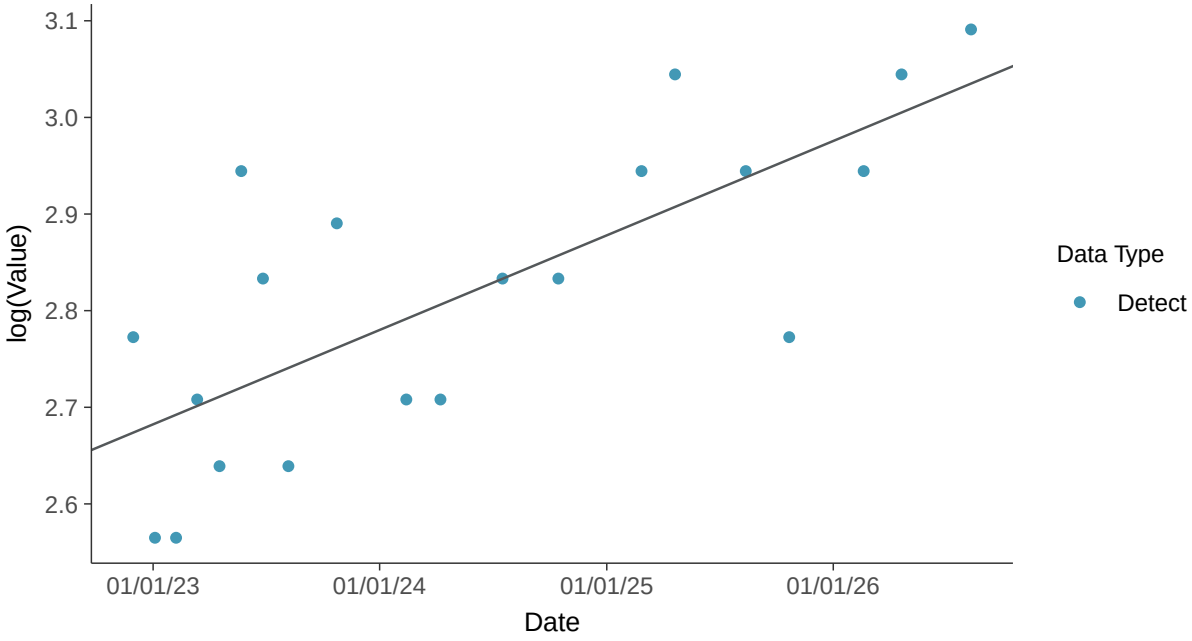
Gamma Q-Q plot

Iron, MW-07 (mg/L)



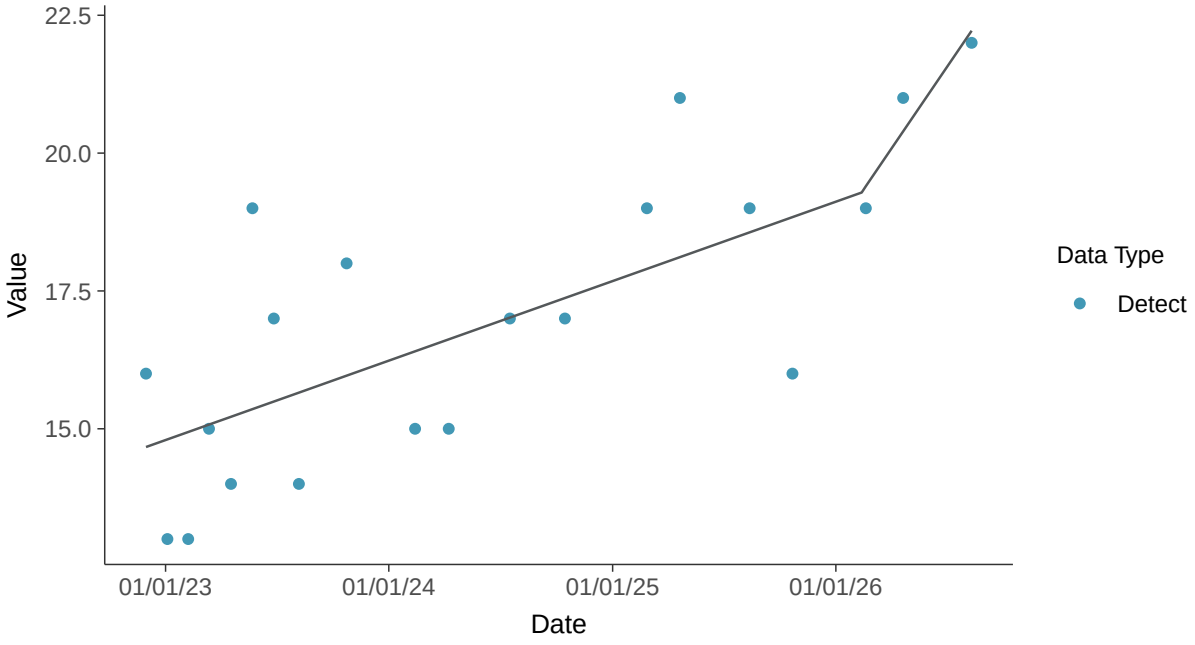
Trend Regression: Lognormal MLE

Iron, MW-07 (mg/L)



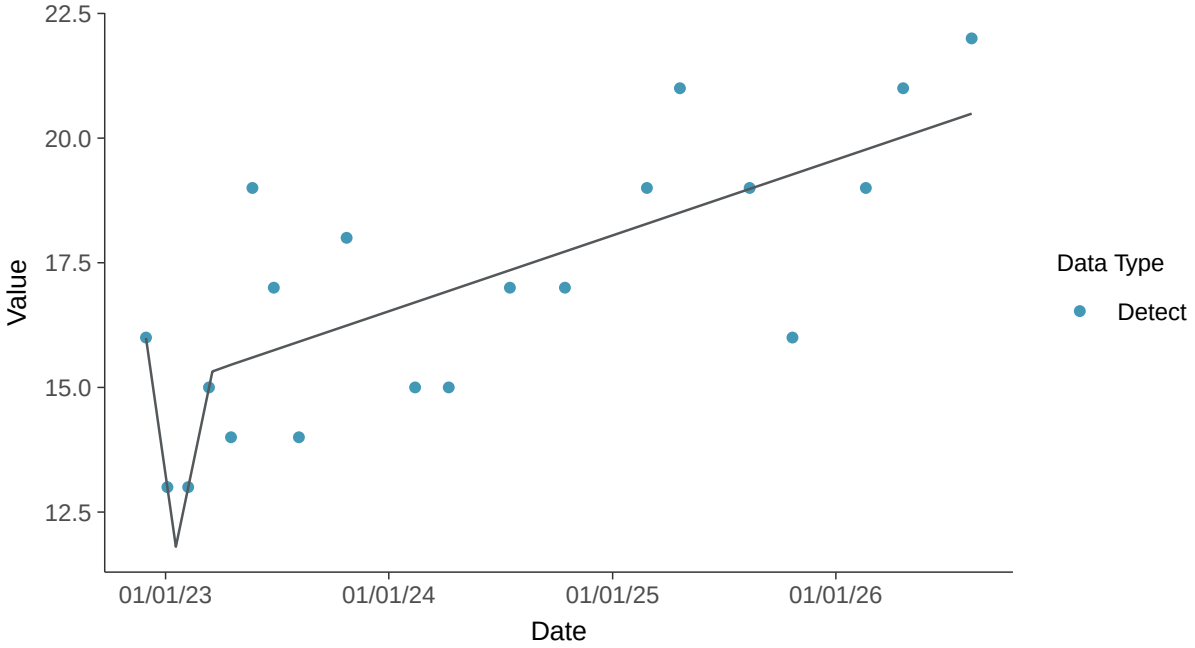
Trend Regression: Piecewise Linear-Linear

Iron, MW-07 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Iron, MW-07 (mg/L)

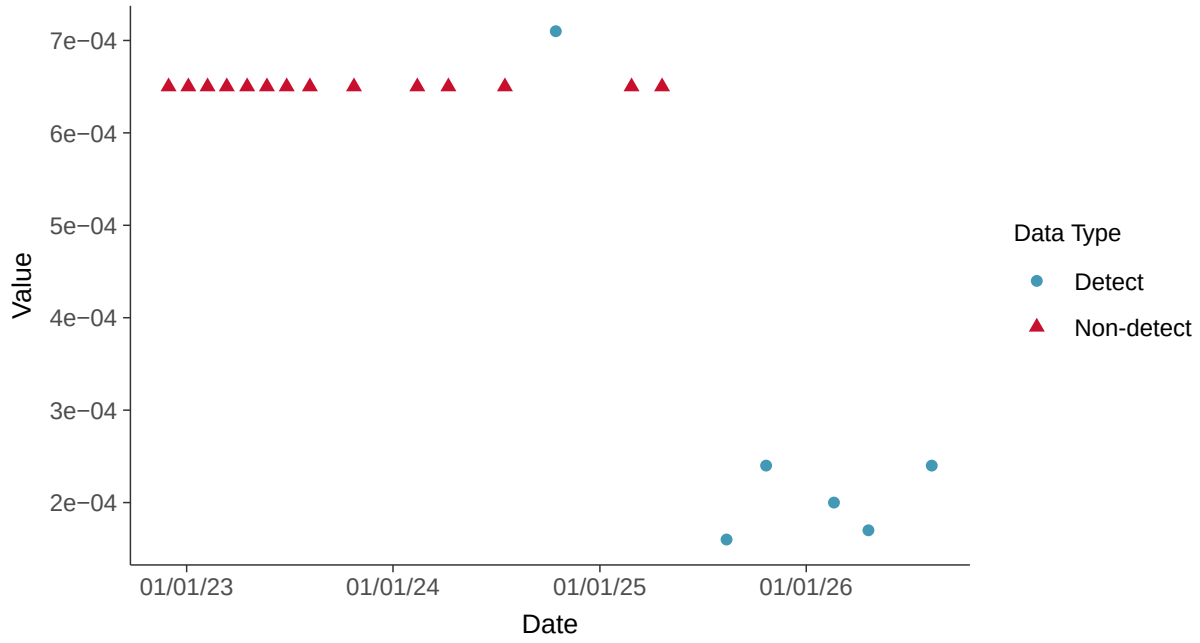


Part 115: Nickel, MW-07

ID: 17_1_5_119

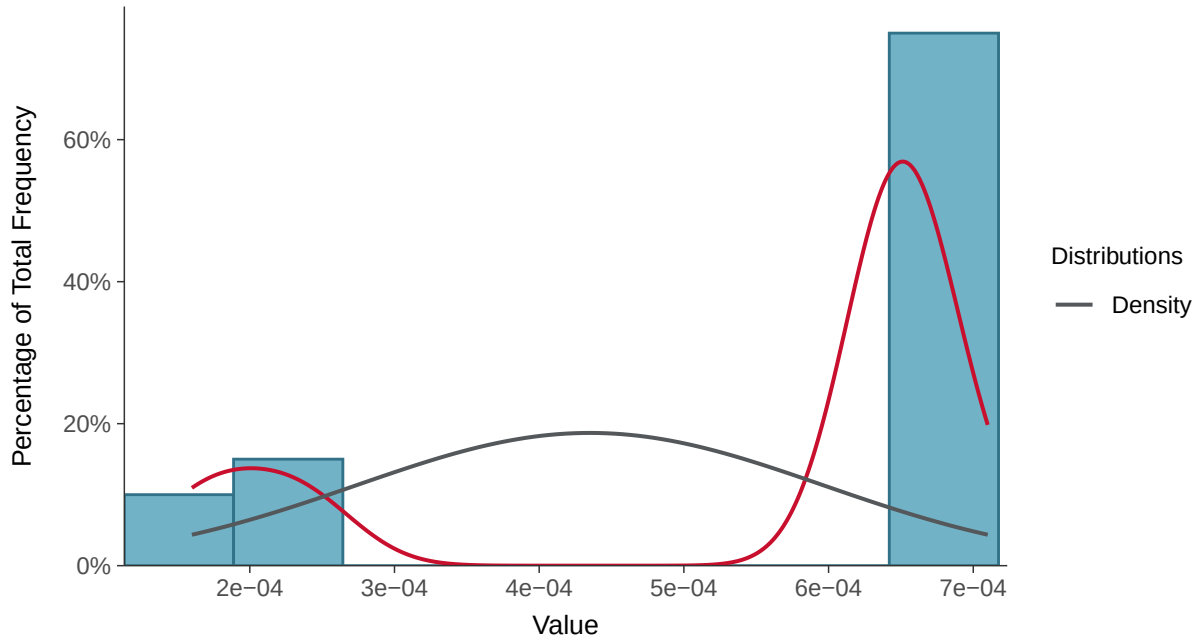
Scatter Plot

Nickel, MW-07 (mg/L)



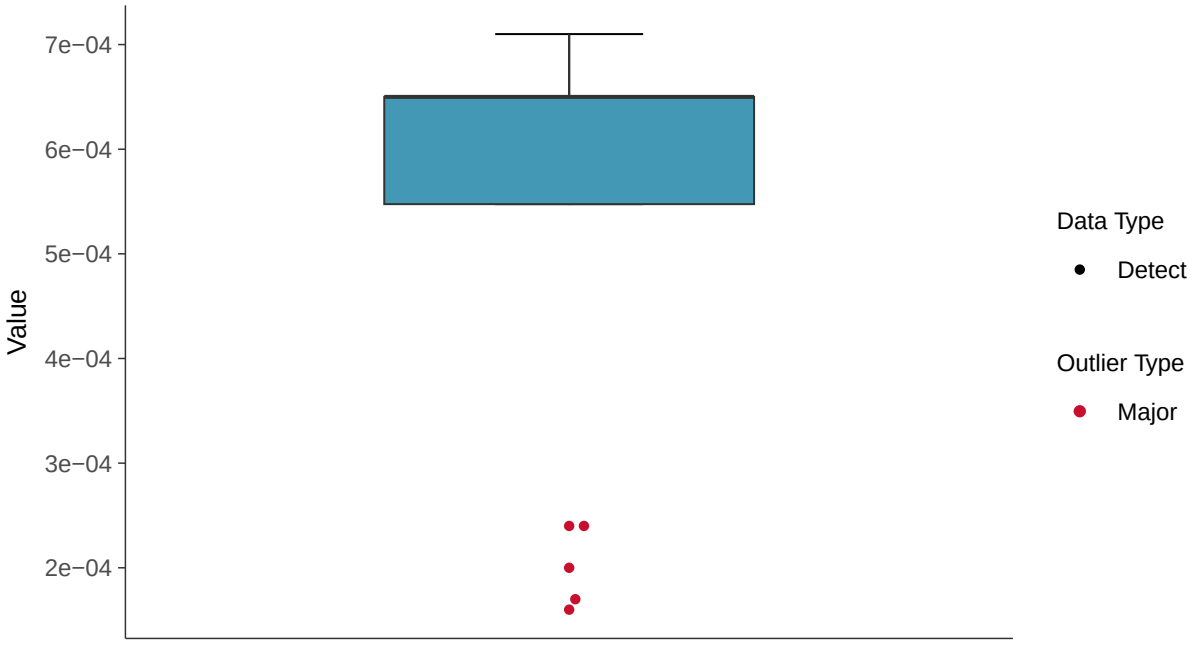
Histogram

Nickel, MW-07 (mg/L)



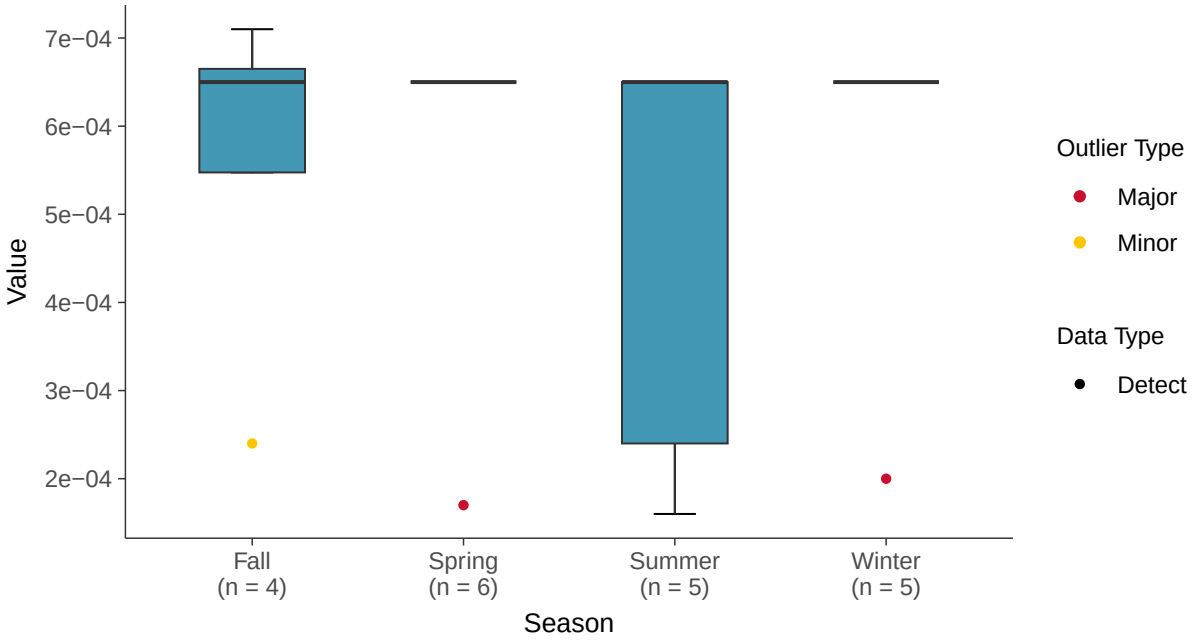
Boxplot

Nickel, MW-07 (mg/L)



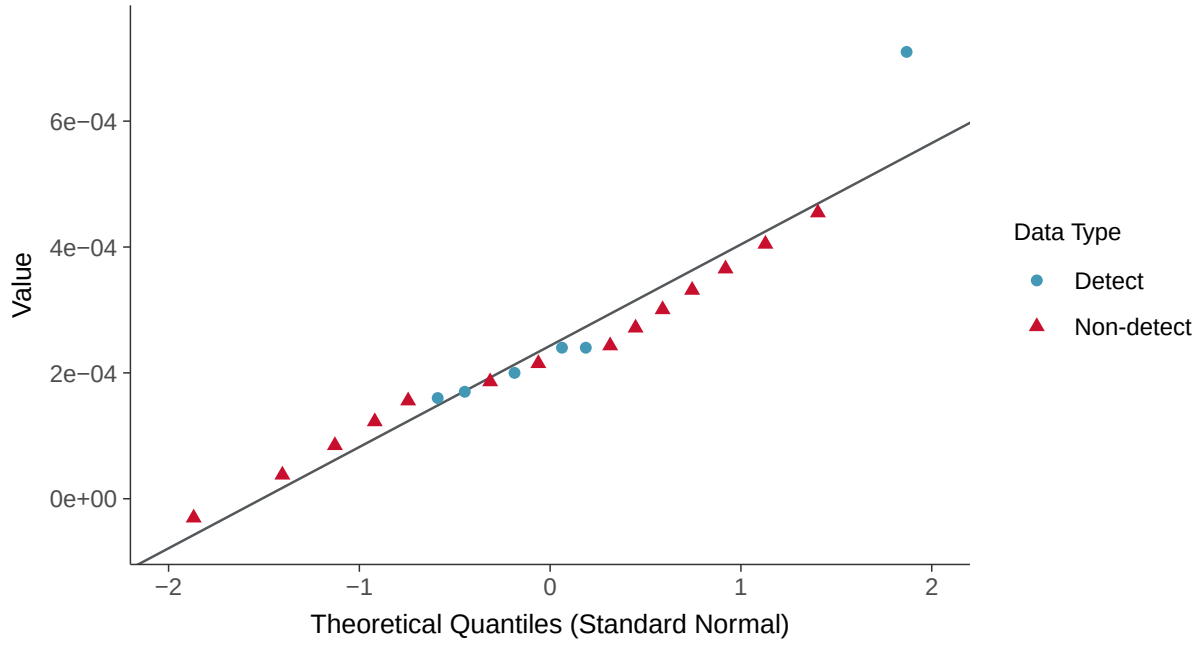
Boxplot by Season

Nickel, MW-07 (mg/L)



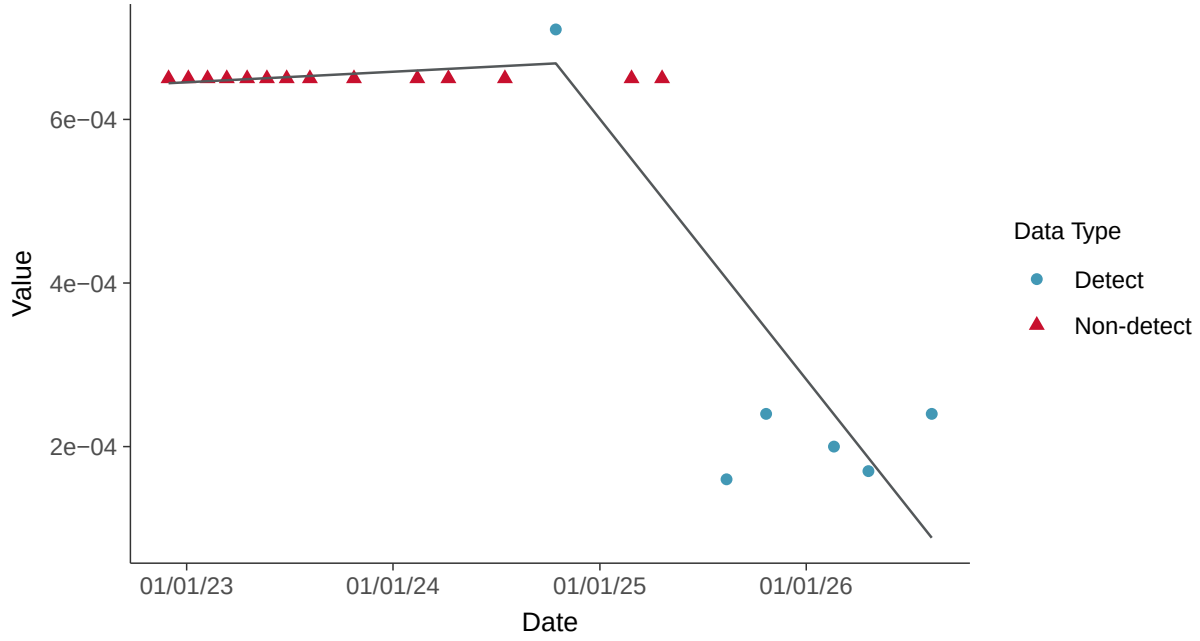
Normal Q-Q plot using ROS Imputed Estimates

Nickel, MW-07 (mg/L)



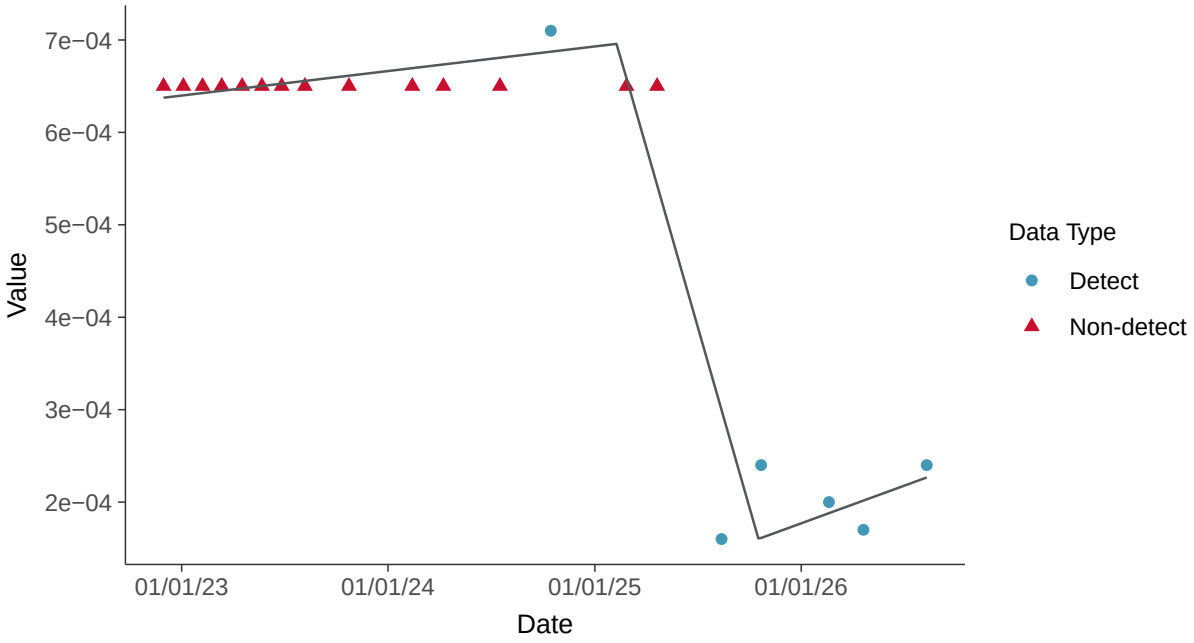
Trend Regression: Piecewise Linear-Linear

Nickel, MW-07 (mg/L)



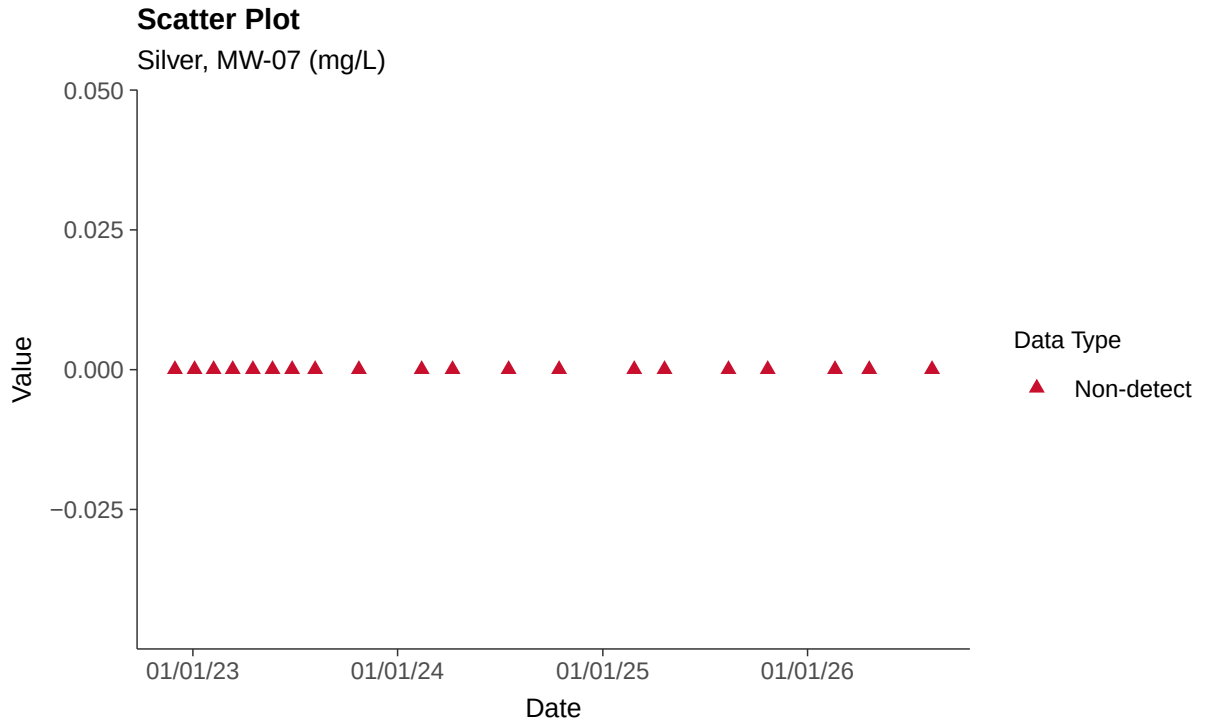
Trend Regression: Piecewise Linear-Linear-Linear

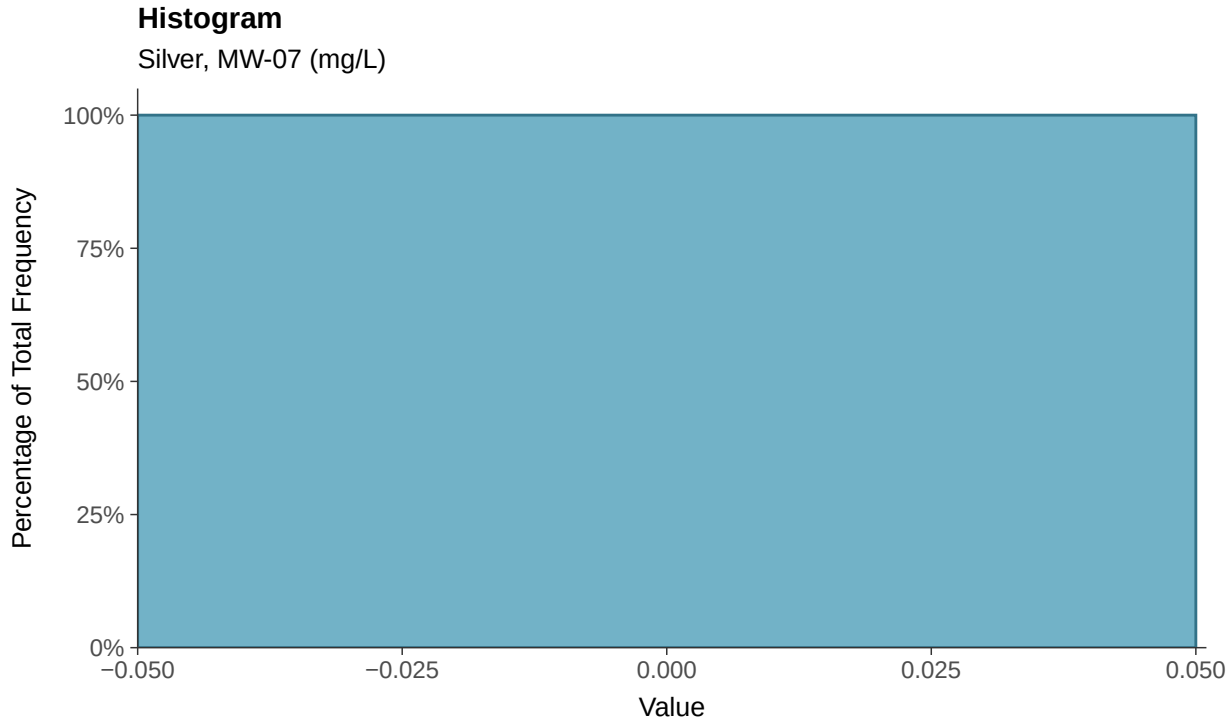
Nickel, MW-07 (mg/L)



Part 115: Silver, MW-07

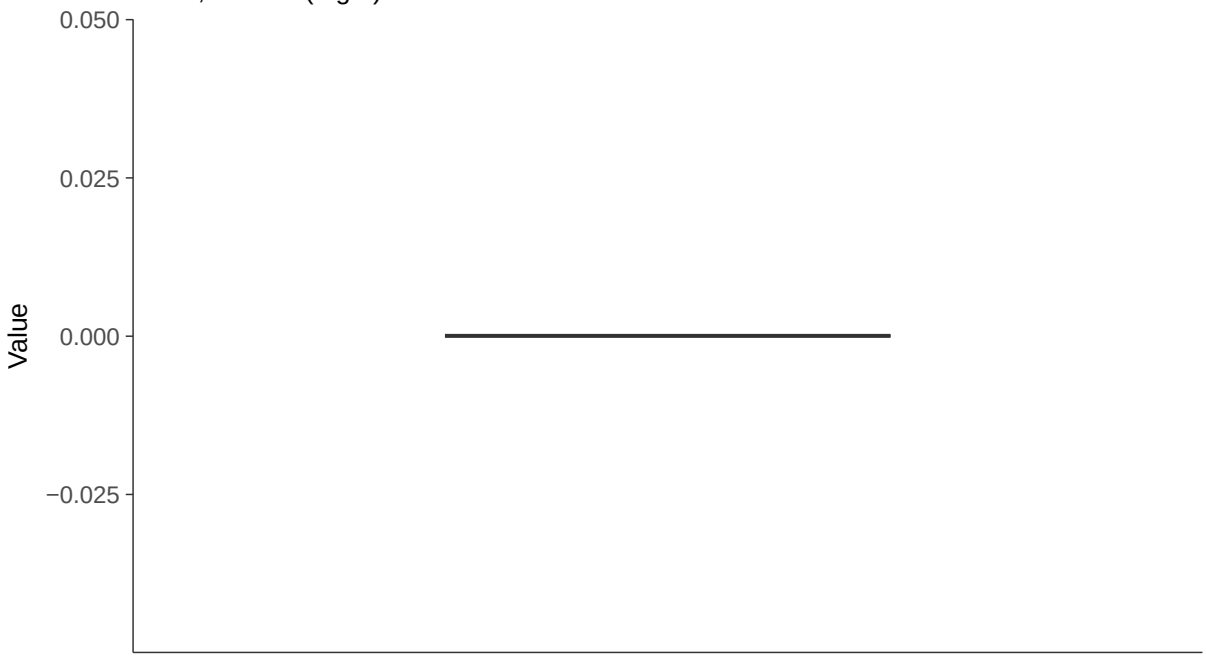
ID: 17_1_5_123





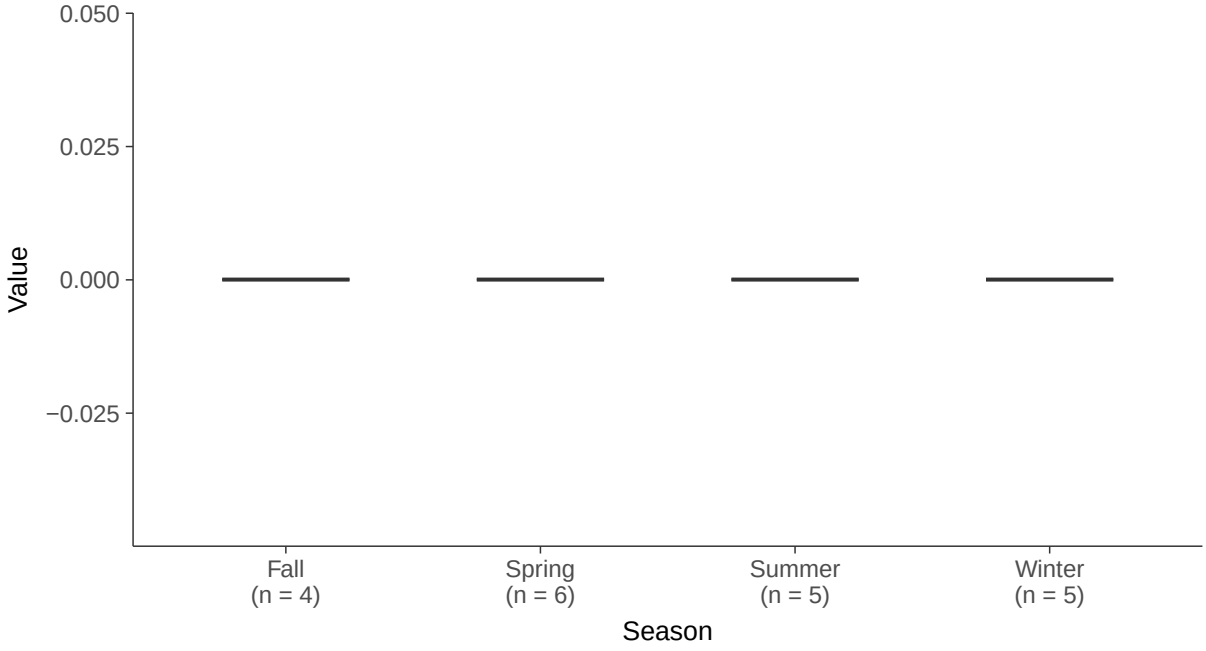
Boxplot

Silver, MW-07 (mg/L)



Boxplot by Season

Silver, MW-07 (mg/L)

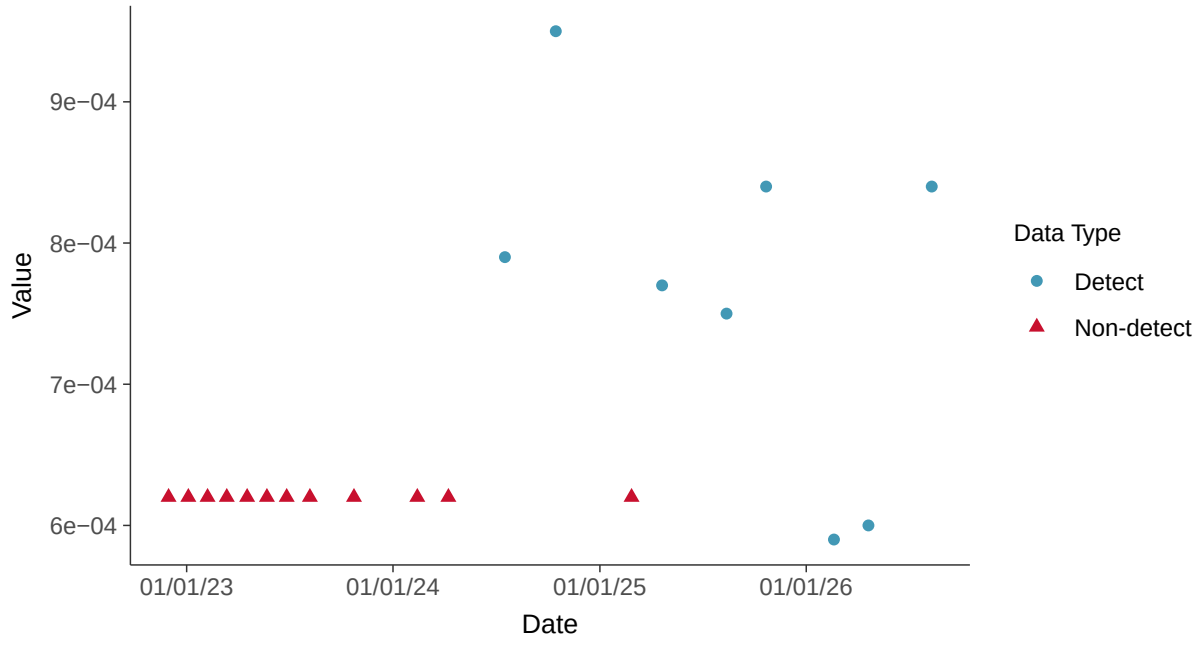


Part 115: Vanadium, MW-07

ID: 17_1_5_128

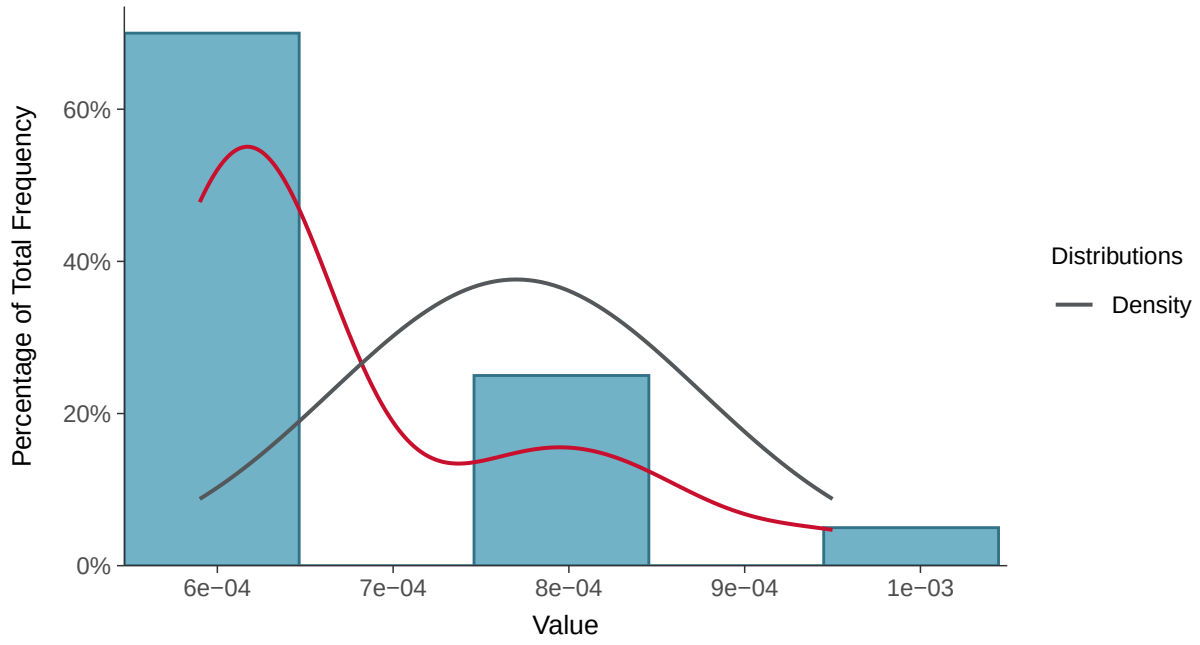
Scatter Plot

Vanadium, MW-07 (mg/L)



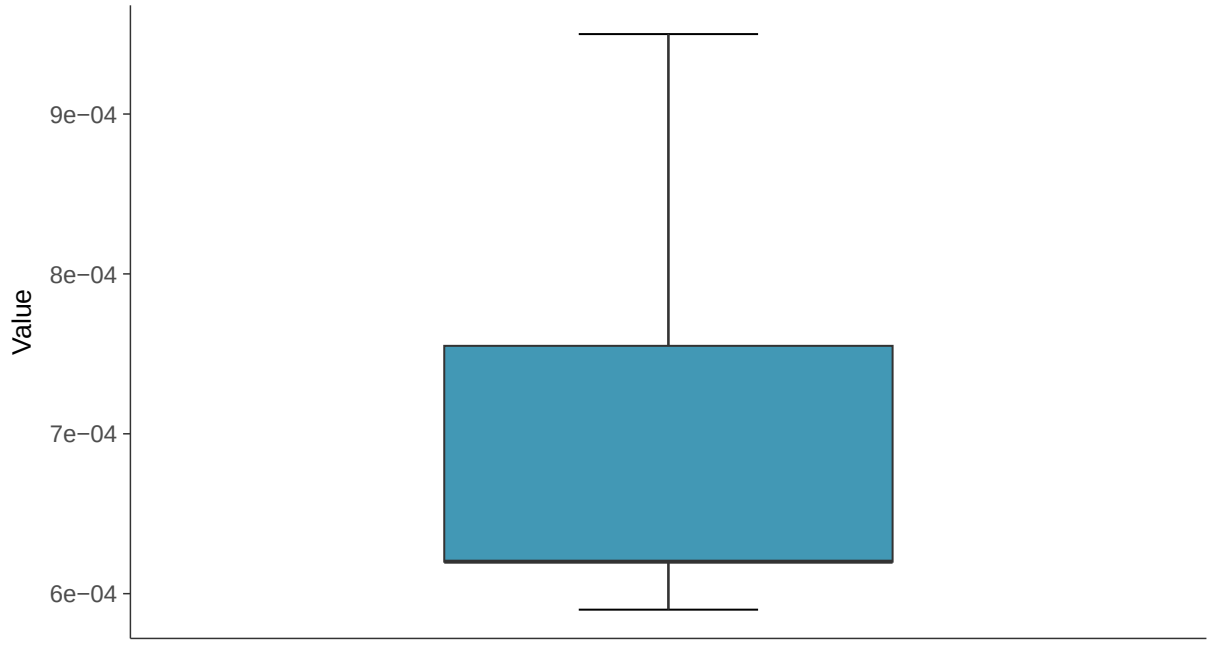
Histogram

Vanadium, MW-07 (mg/L)



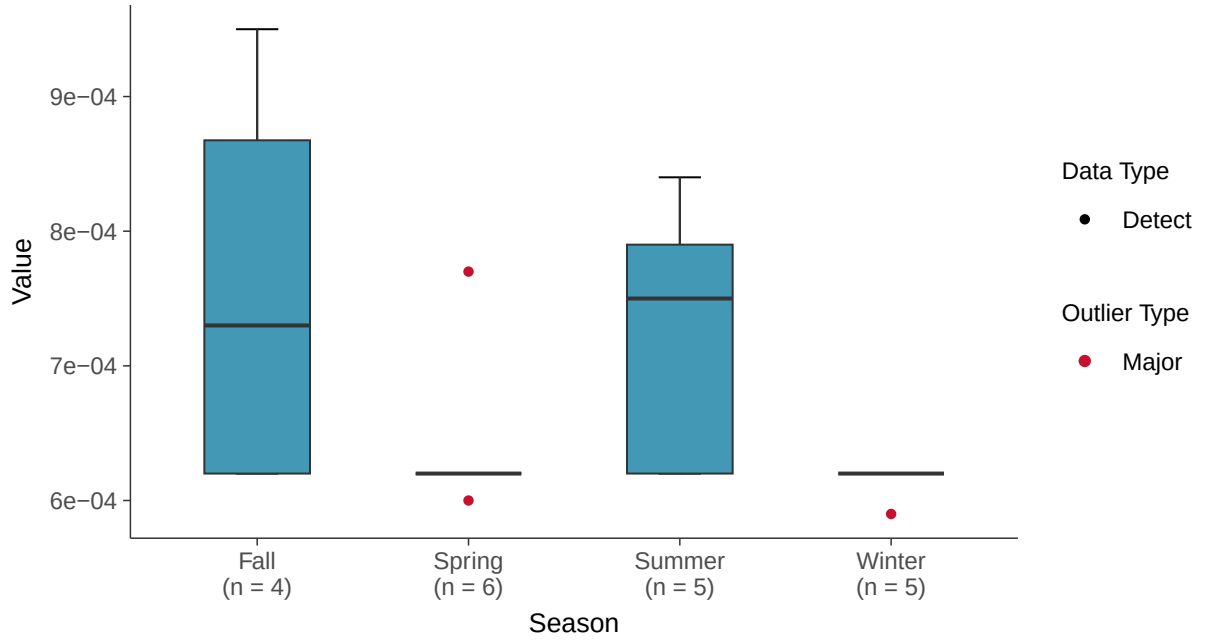
Boxplot

Vanadium, MW-07 (mg/L)



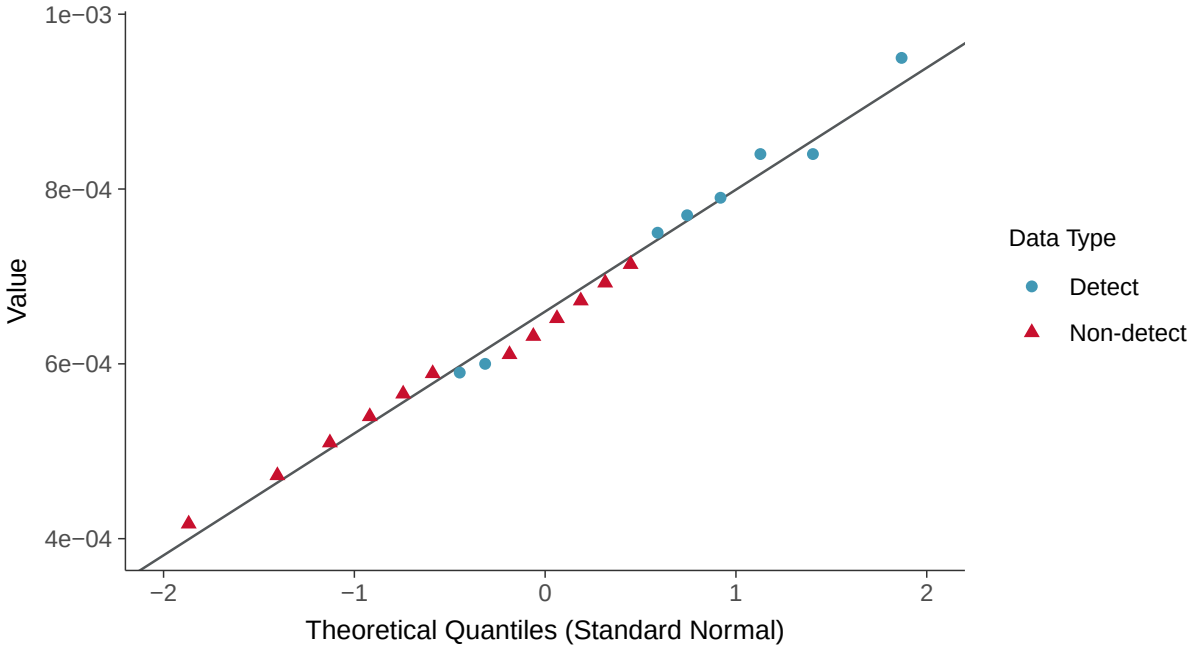
Boxplot by Season

Vanadium, MW-07 (mg/L)



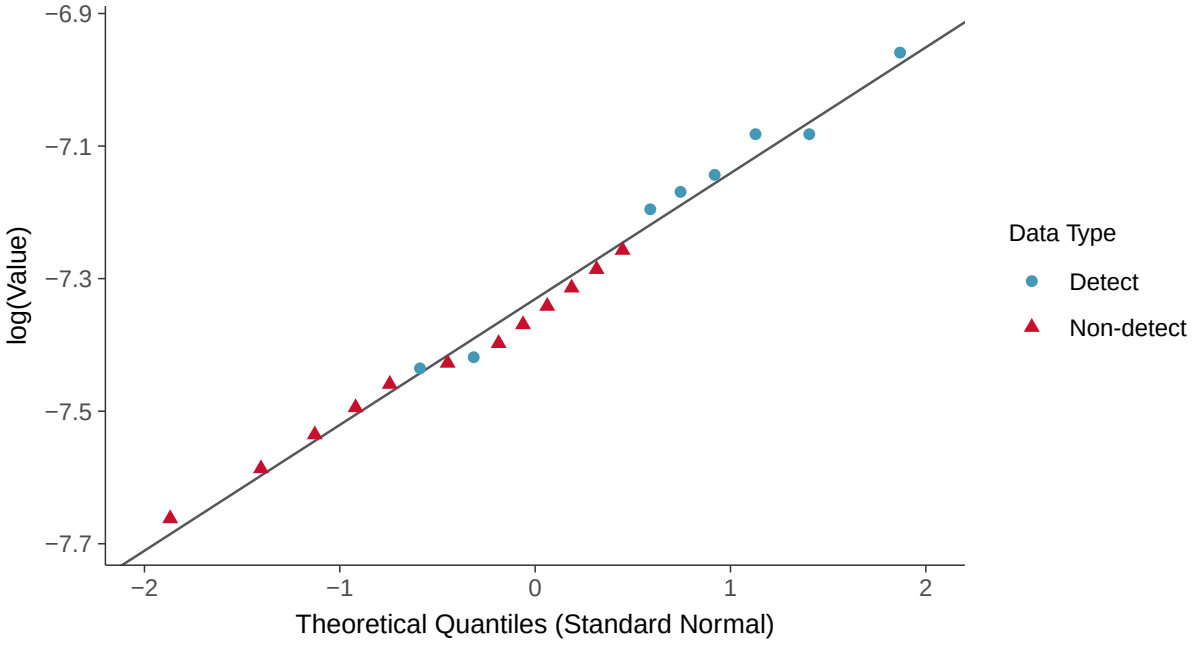
Normal Q-Q plot using ROS Imputed Estimates

Vanadium, MW-07 (mg/L)



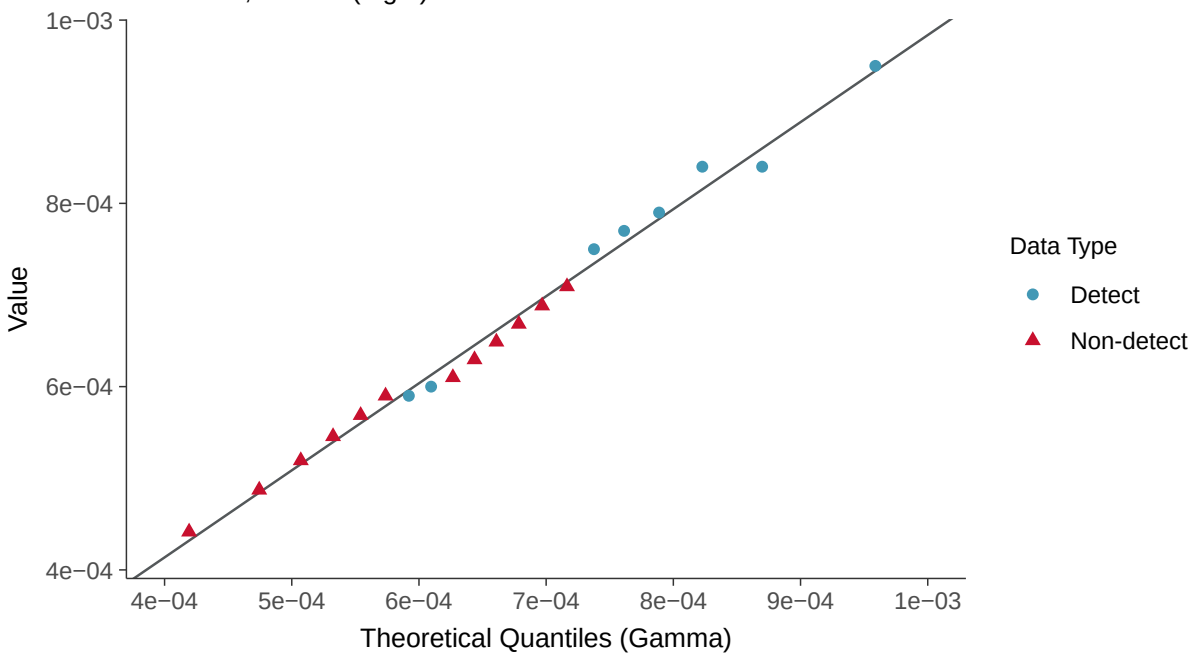
Lognormal Q-Q plot using ROS Imputed Estimates

Vanadium, MW-07 (mg/L)



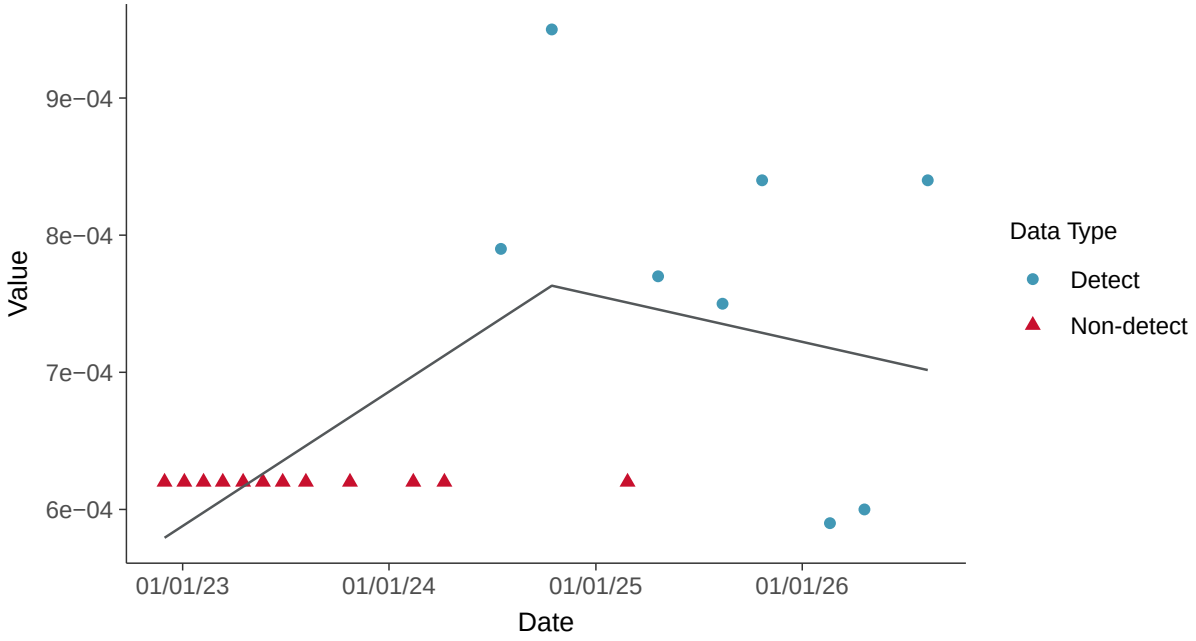
Gamma Q-Q plot using ROS Imputed Estimates

Vanadium, MW-07 (mg/L)



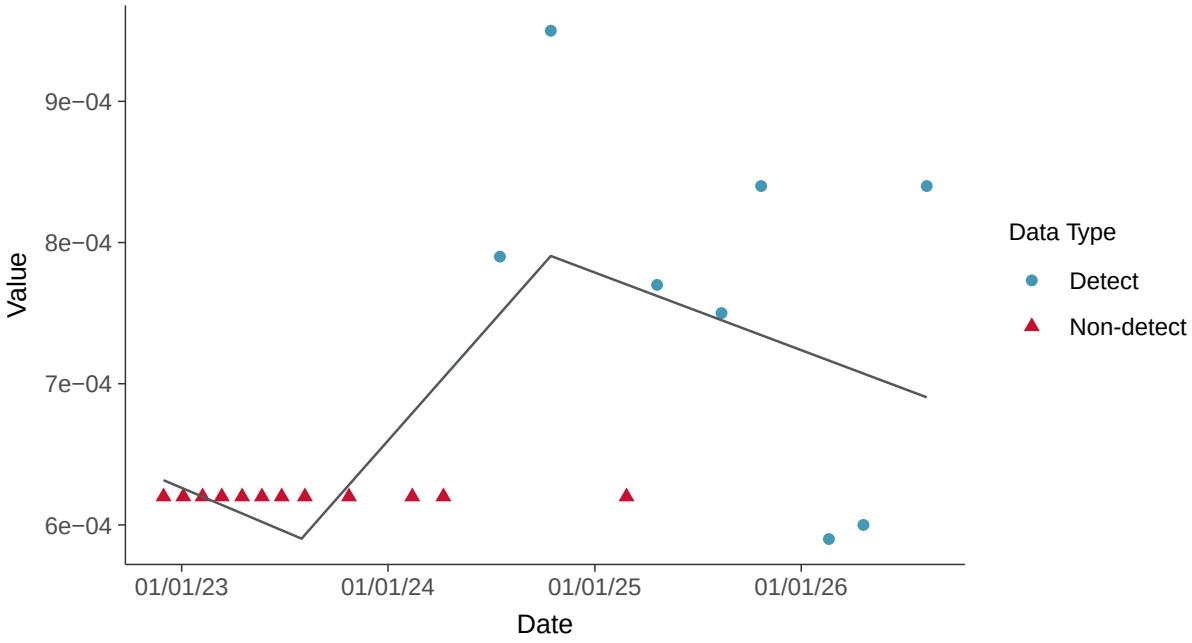
Trend Regression: Piecewise Linear-Linear

Vanadium, MW-07 (mg/L)



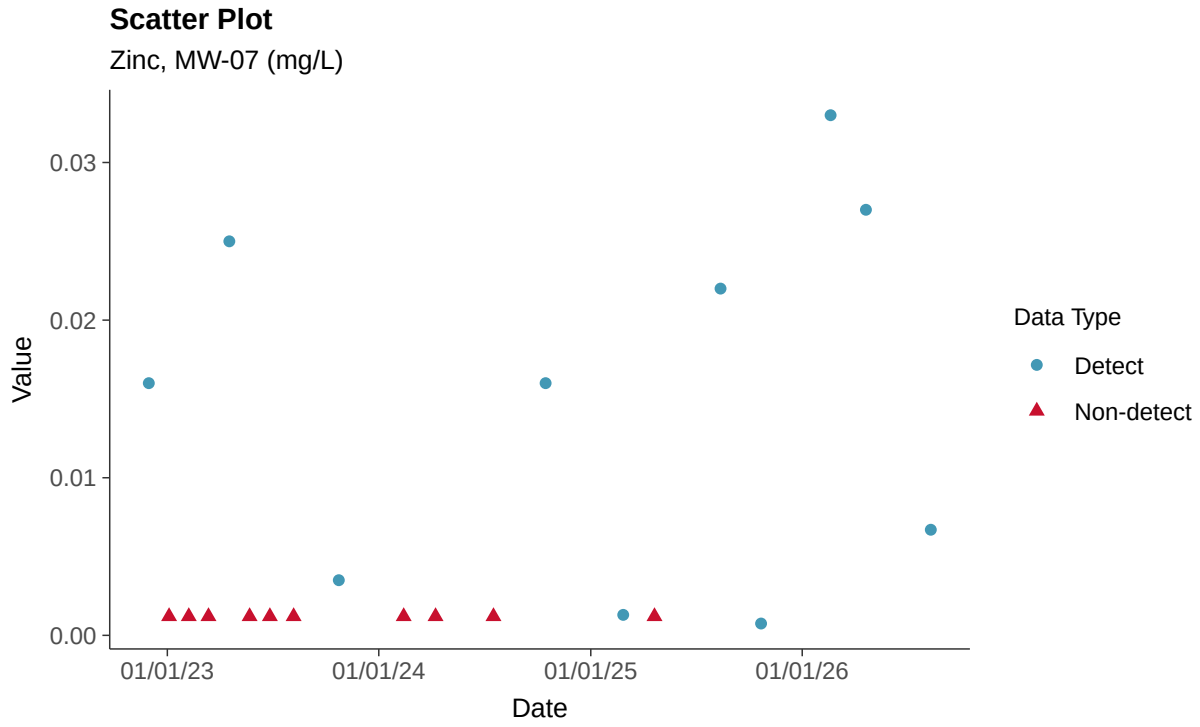
Trend Regression: Piecewise Linear-Linear-Linear

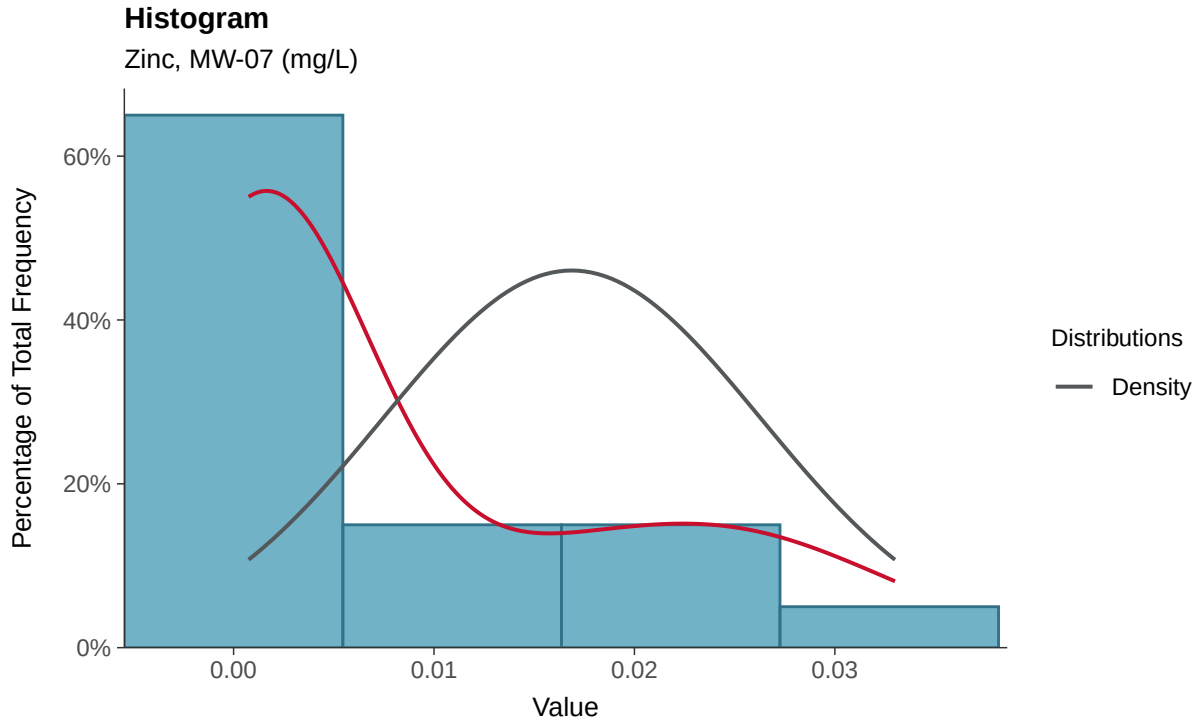
Vanadium, MW-07 (mg/L)



Part 115: Zinc, MW-07

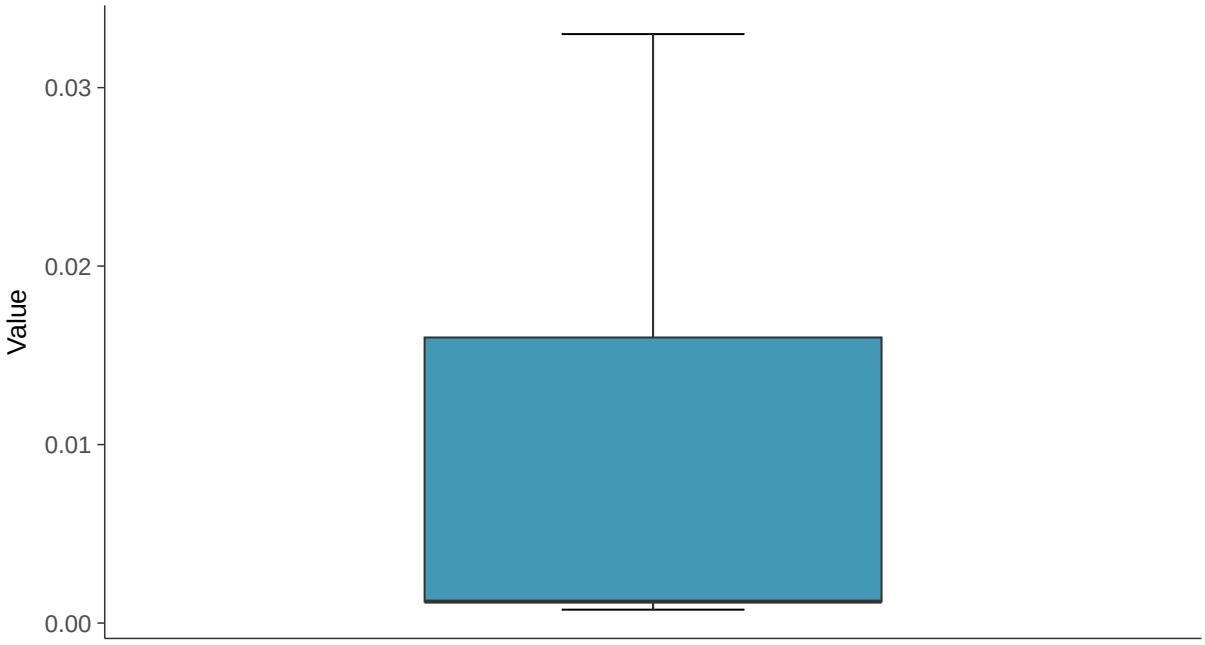
ID: 17_1_5_129





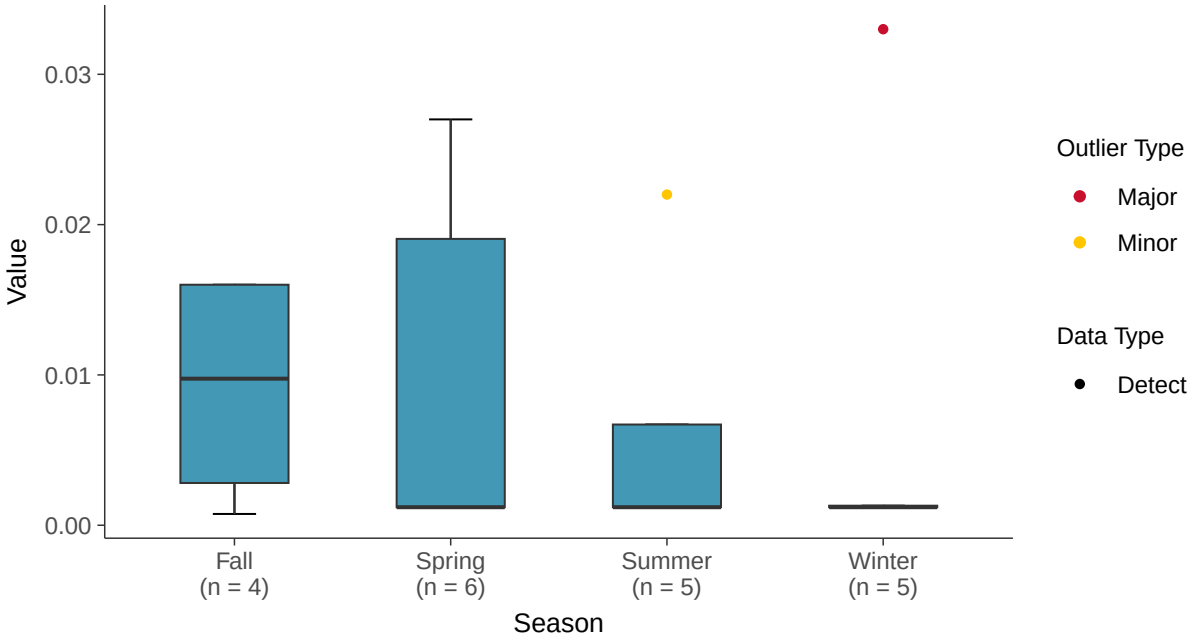
Boxplot

Zinc, MW-07 (mg/L)



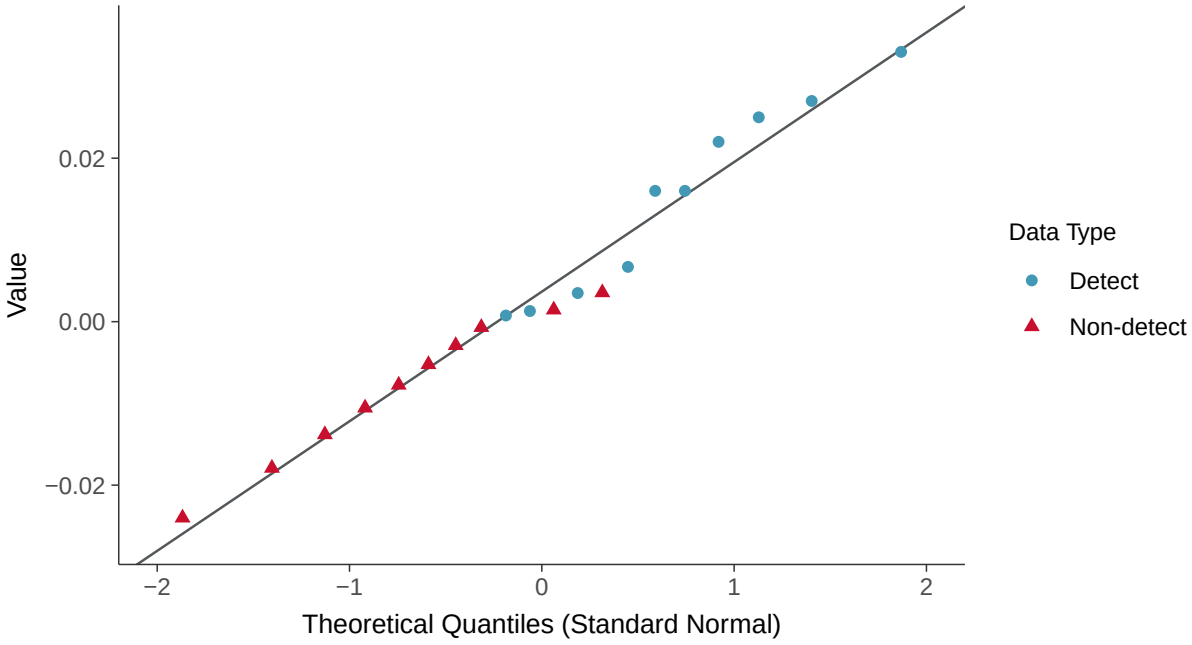
Boxplot by Season

Zinc, MW-07 (mg/L)



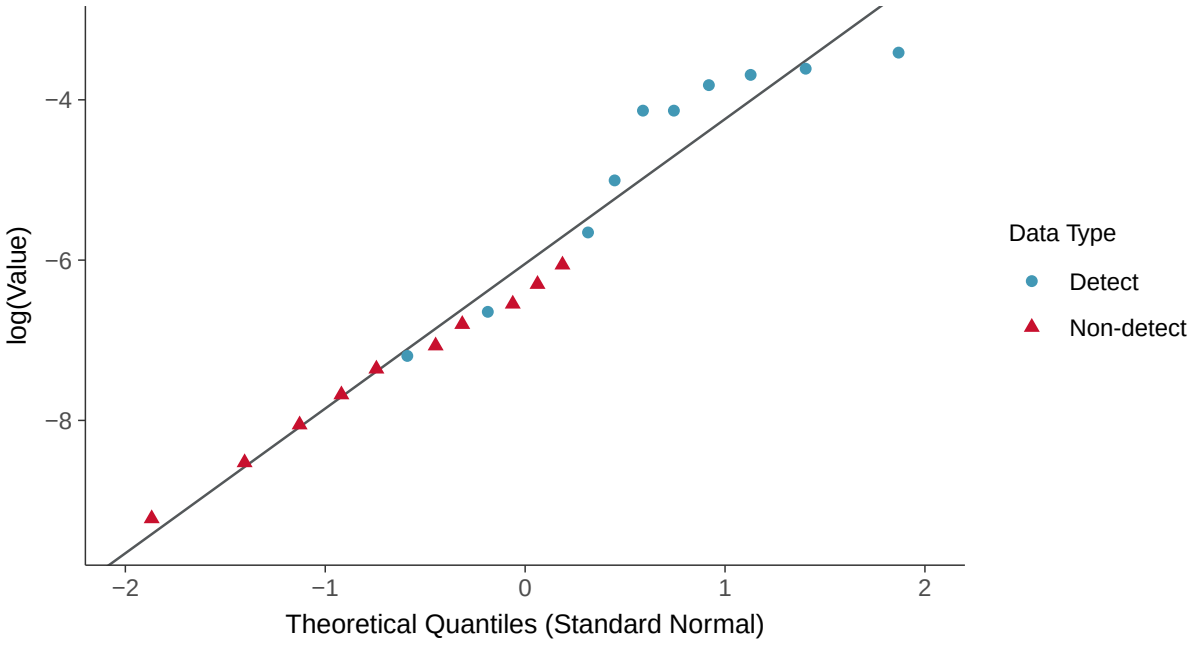
Normal Q-Q plot using ROS Imputed Estimates

Zinc, MW-07 (mg/L)



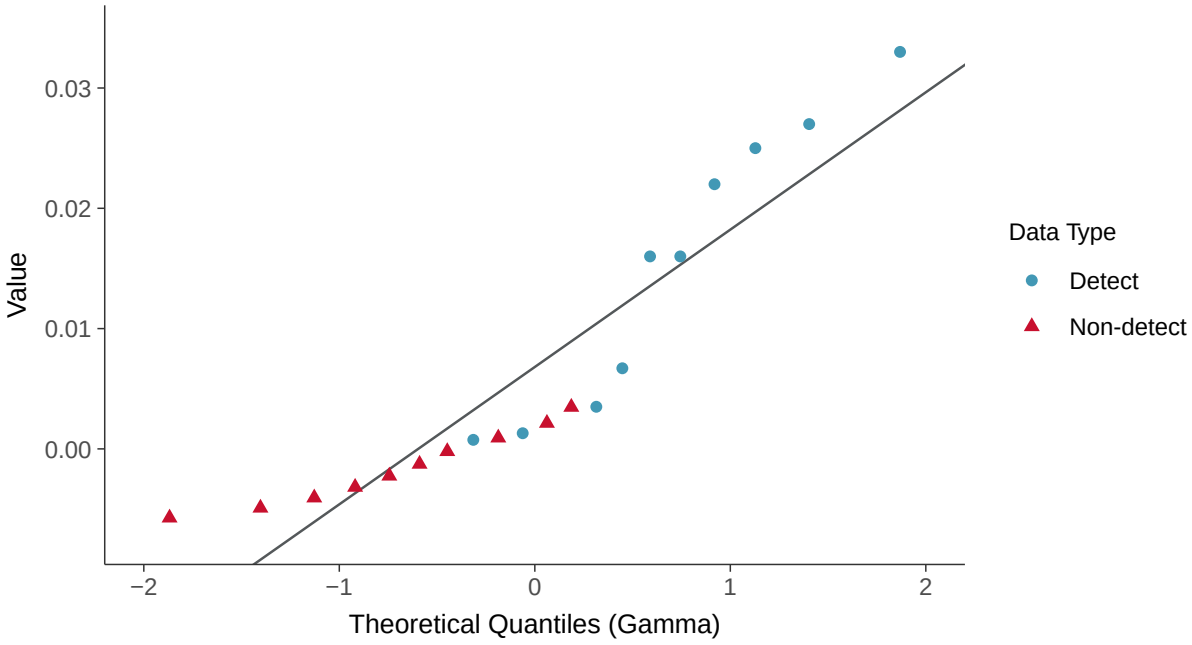
Lognormal Q-Q plot using ROS Imputed Estimates

Zinc, MW-07 (mg/L)



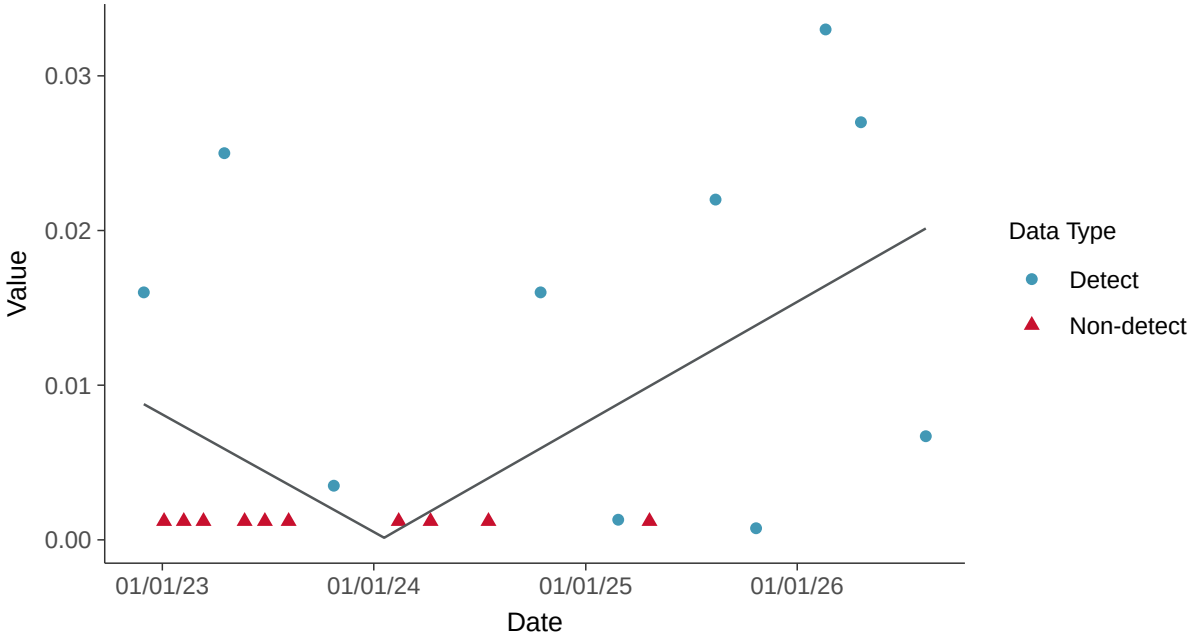
Gamma Q-Q plot using ROS Imputed Estimates

Zinc, MW-07 (mg/L)



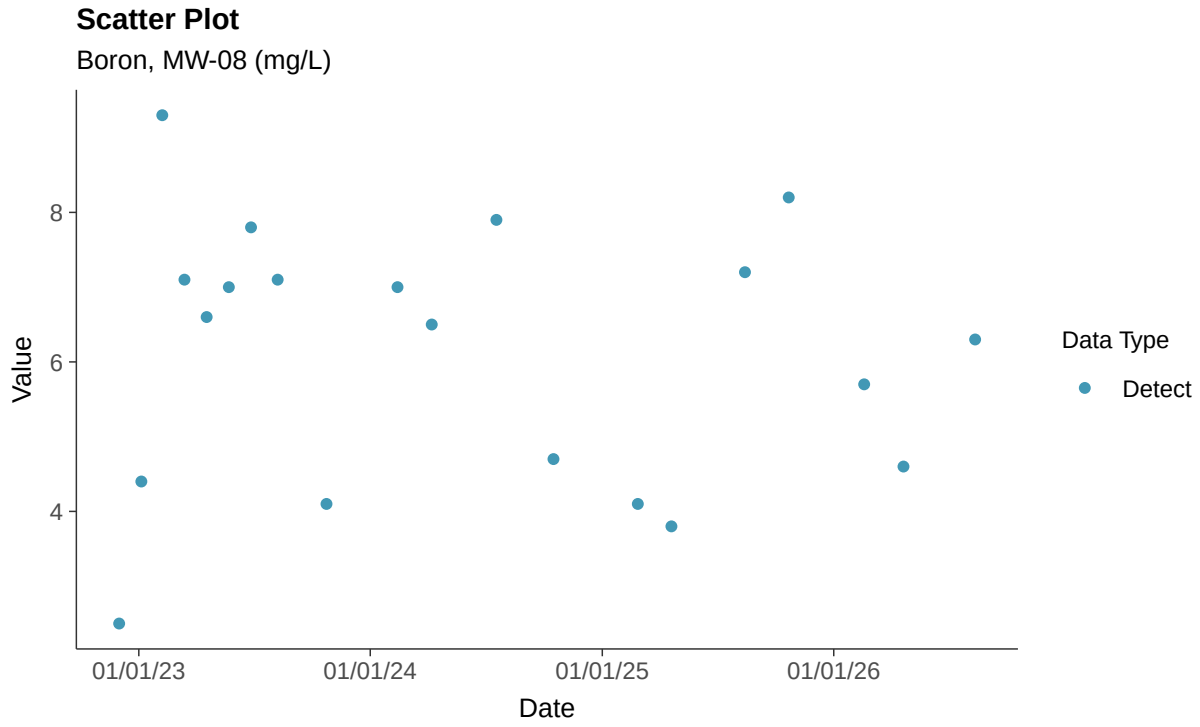
Trend Regression: Piecewise Linear-Linear

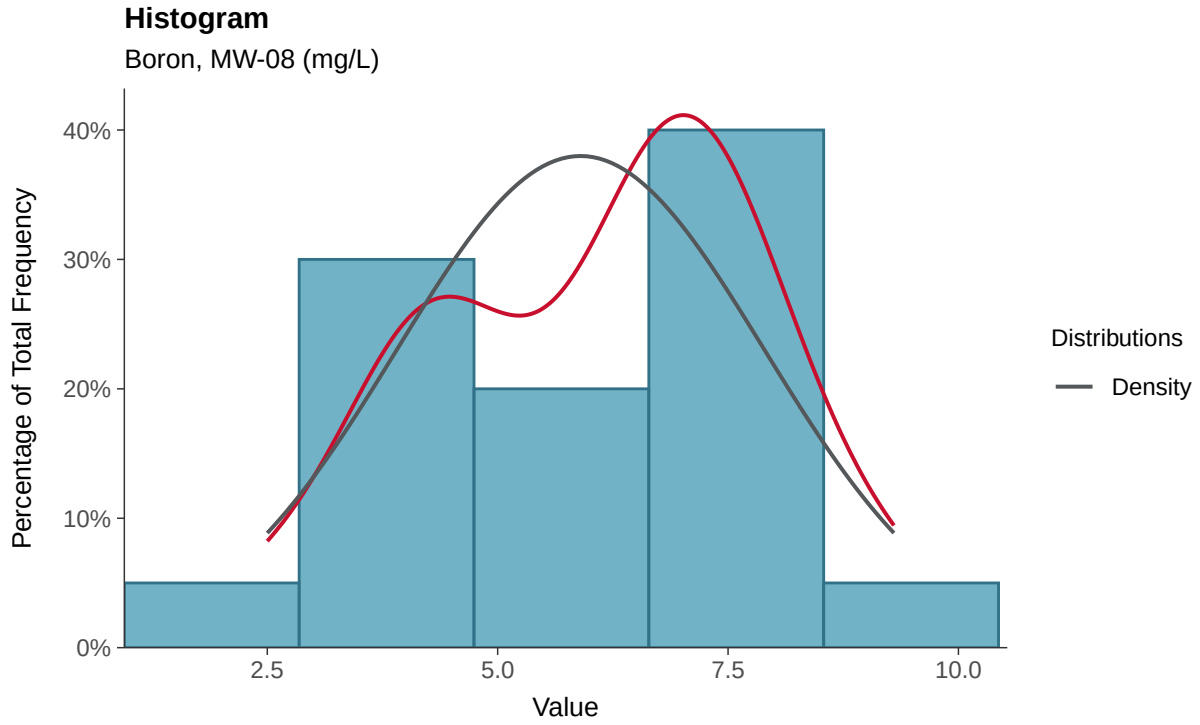
Zinc, MW-07 (mg/L)



Appendix III: Boron, MW-08

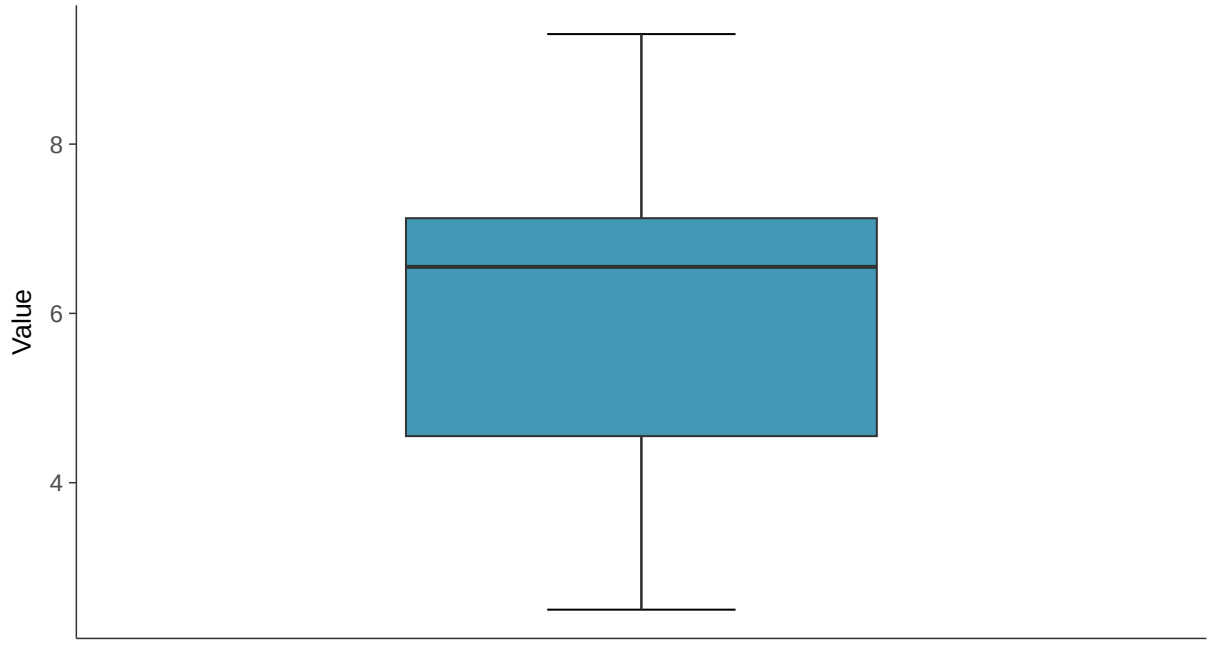
ID: 18_1_3_105





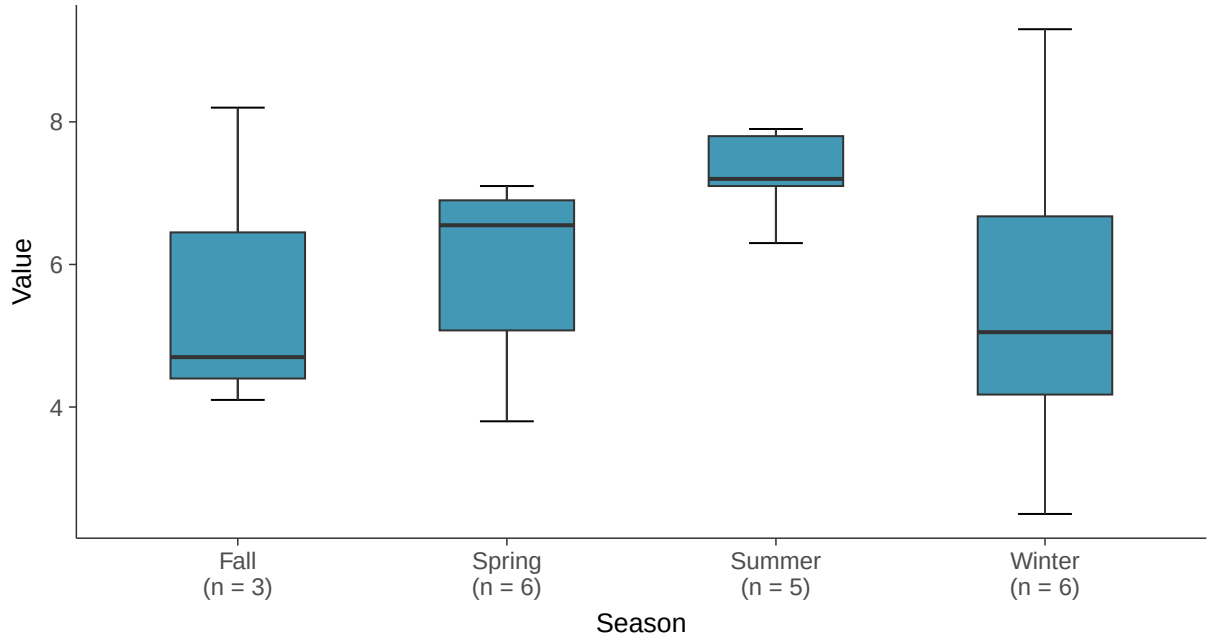
Boxplot

Boron, MW-08 (mg/L)



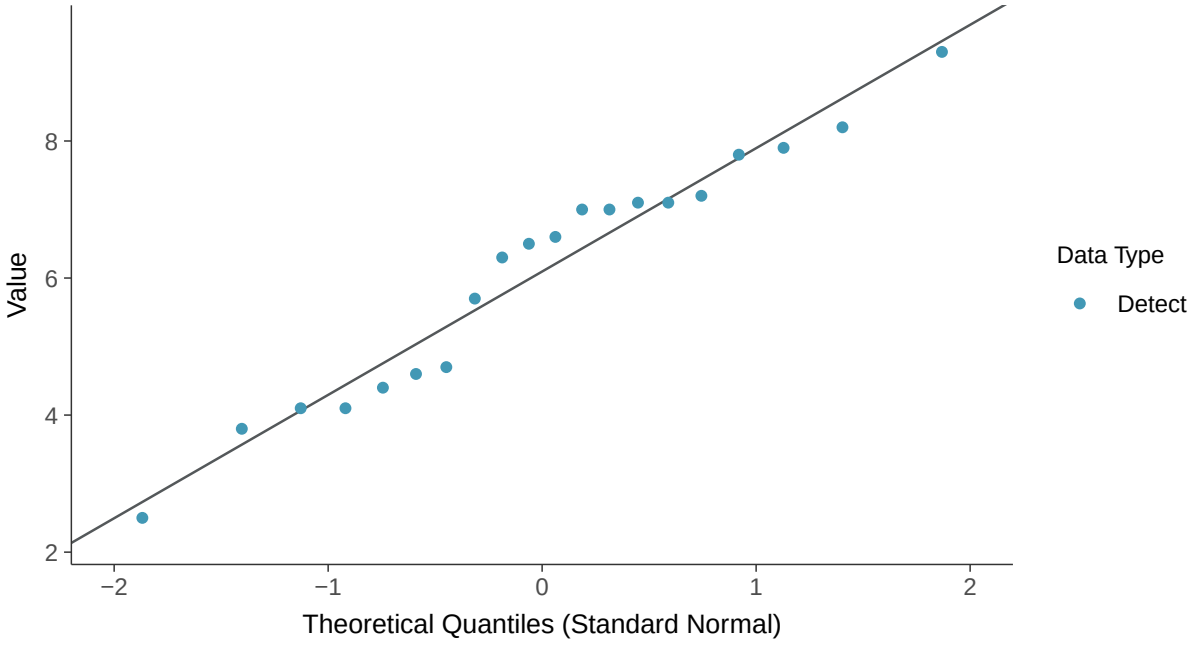
Boxplot by Season

Boron, MW-08 (mg/L)



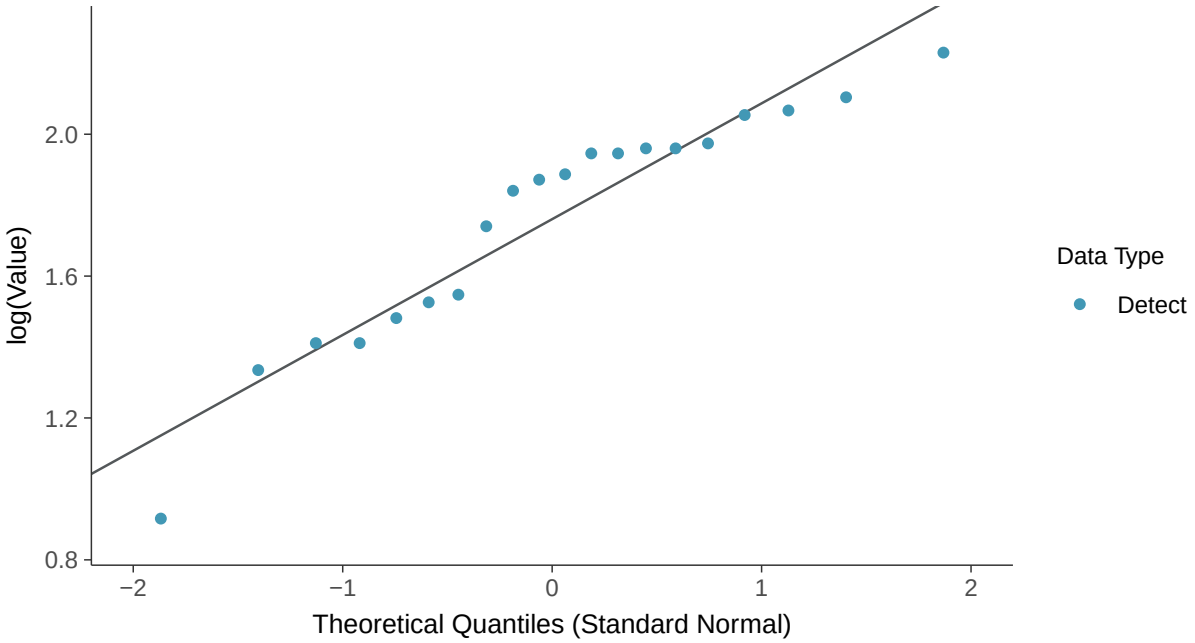
Normal Q-Q plot

Boron, MW-08 (mg/L)



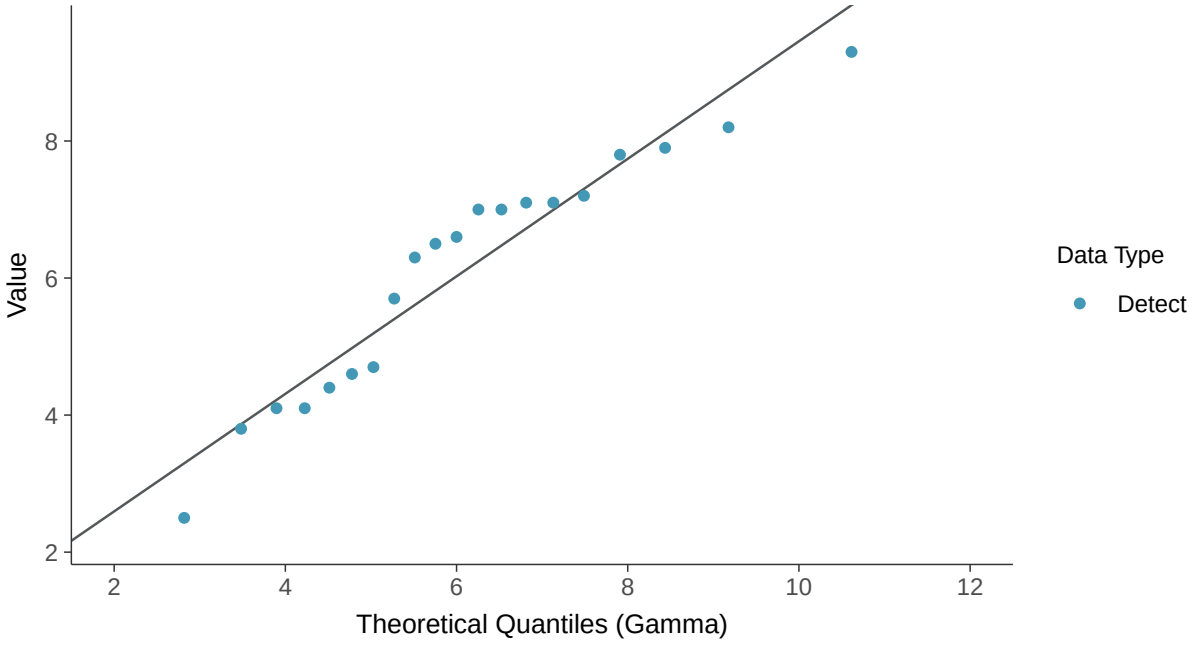
Lognormal Q-Q plot

Boron, MW-08 (mg/L)



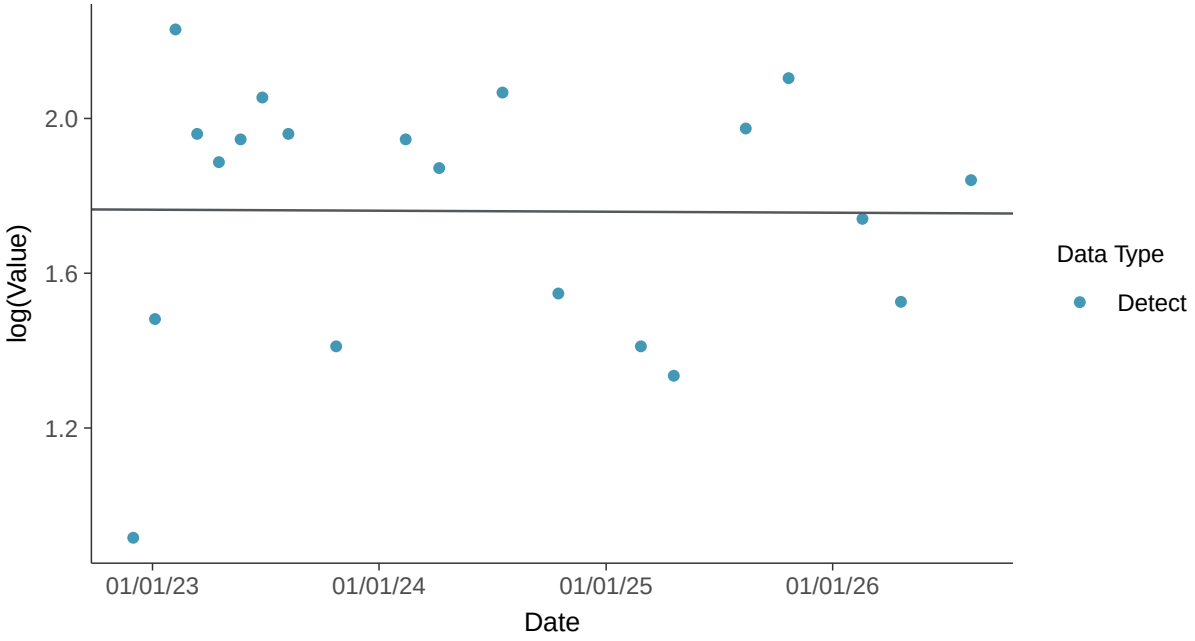
Gamma Q-Q plot

Boron, MW-08 (mg/L)



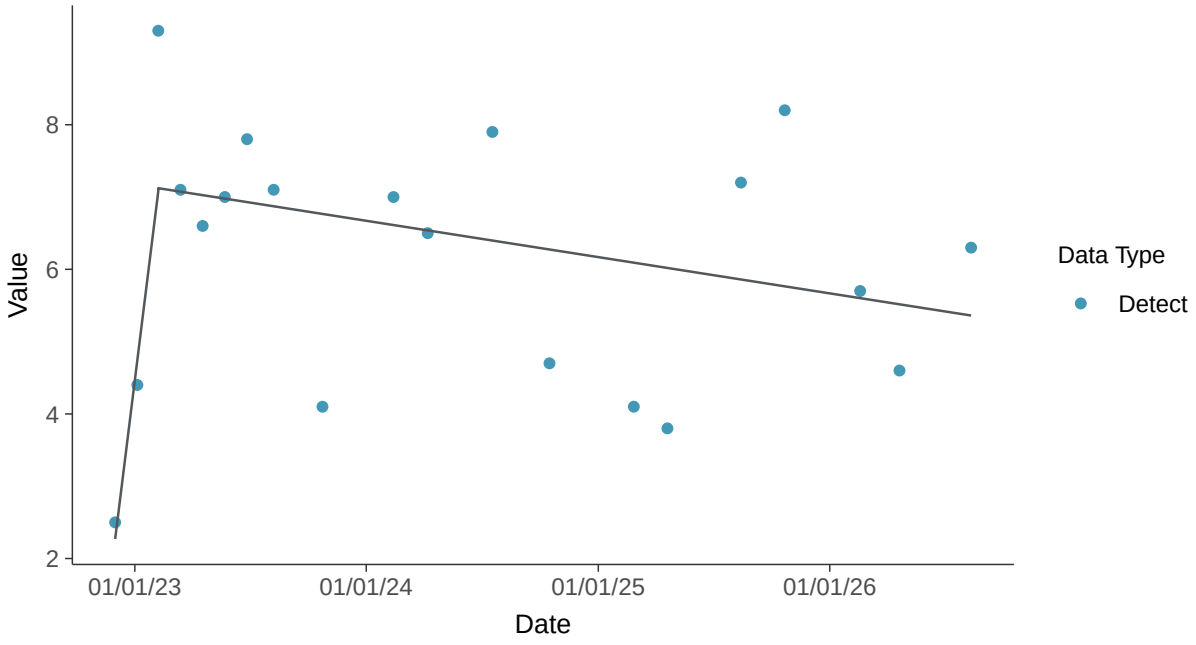
Trend Regression: Lognormal MLE

Boron, MW-08 (mg/L)



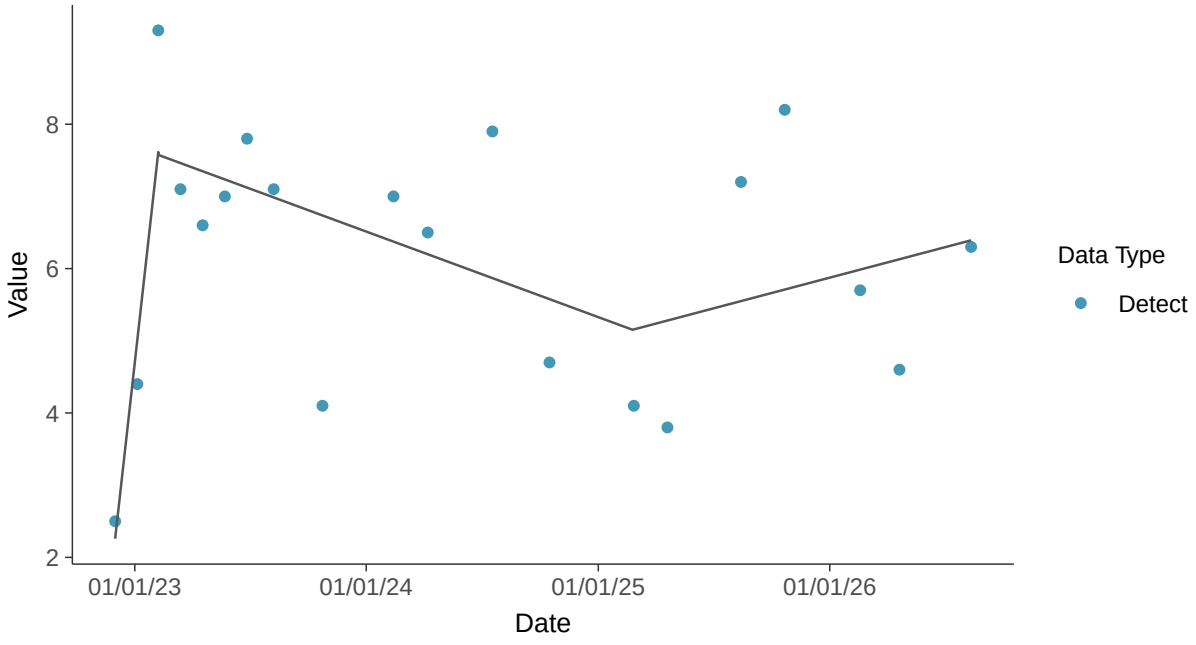
Trend Regression: Piecewise Linear-Linear

Boron, MW-08 (mg/L)



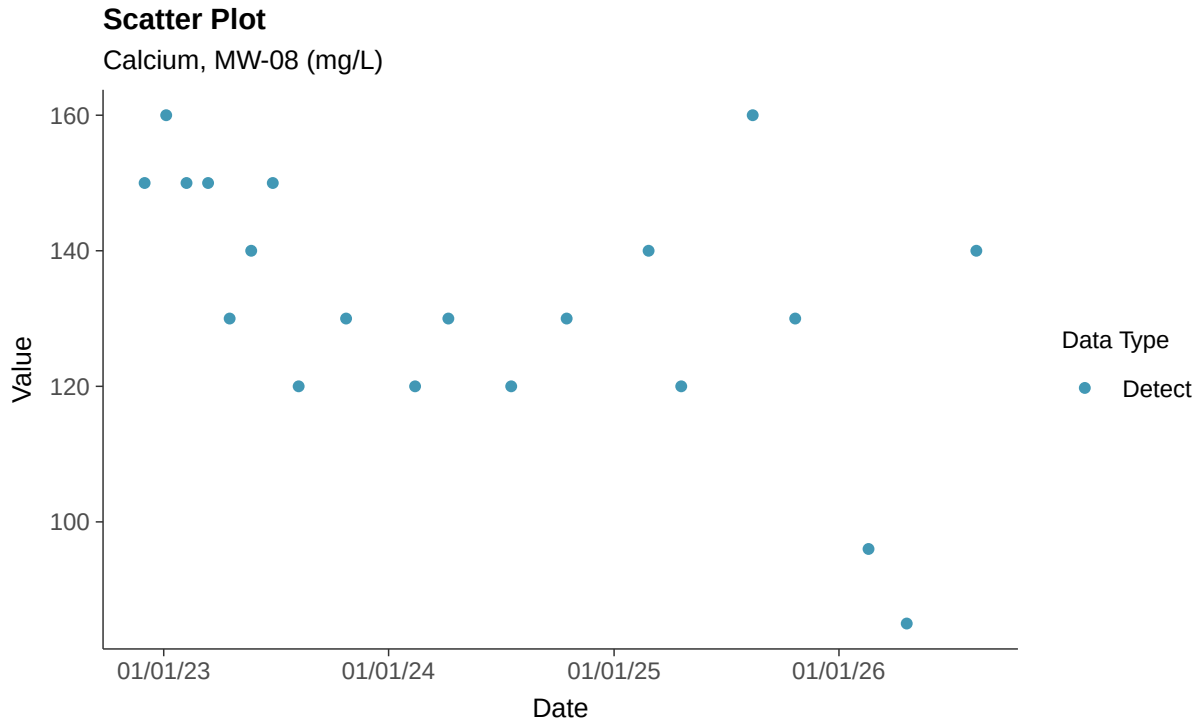
Trend Regression: Piecewise Linear-Linear-Linear

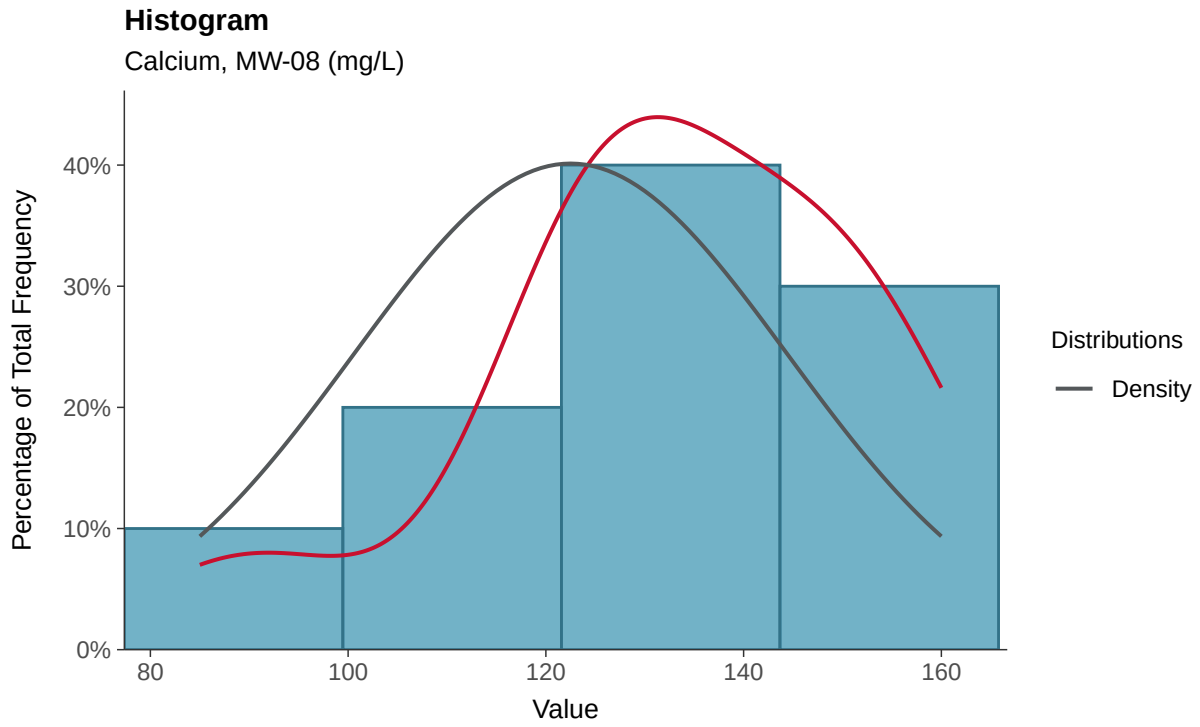
Boron, MW-08 (mg/L)



Appendix III: Calcium, MW-08

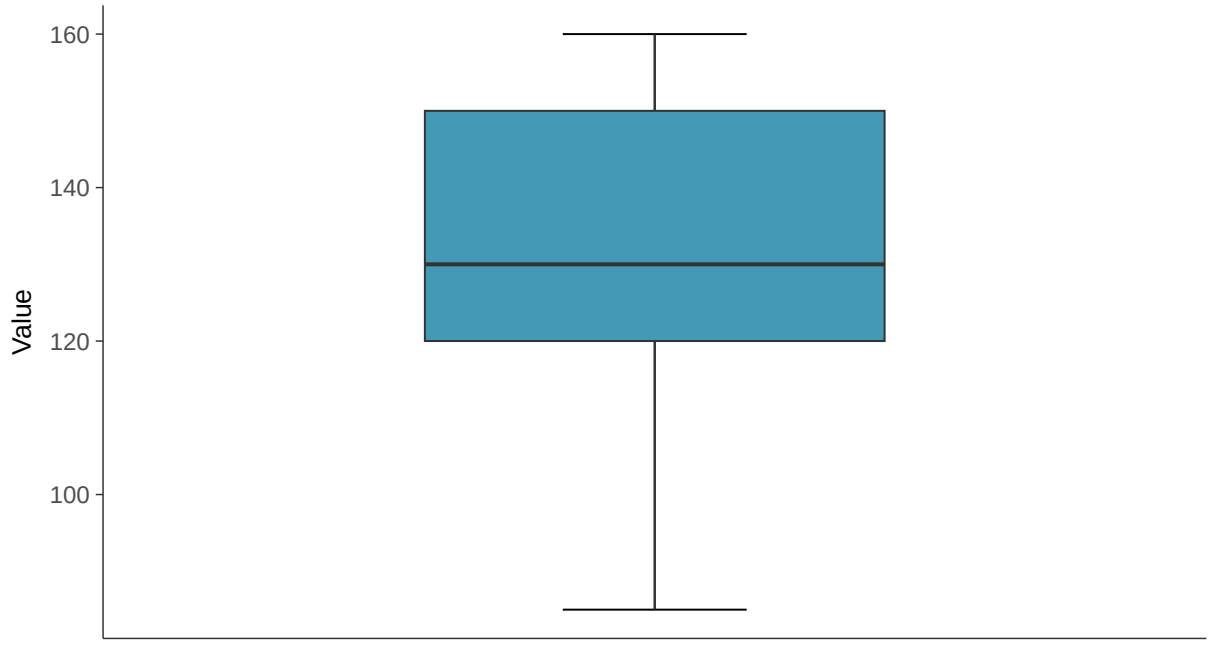
ID: 18_1_3_107





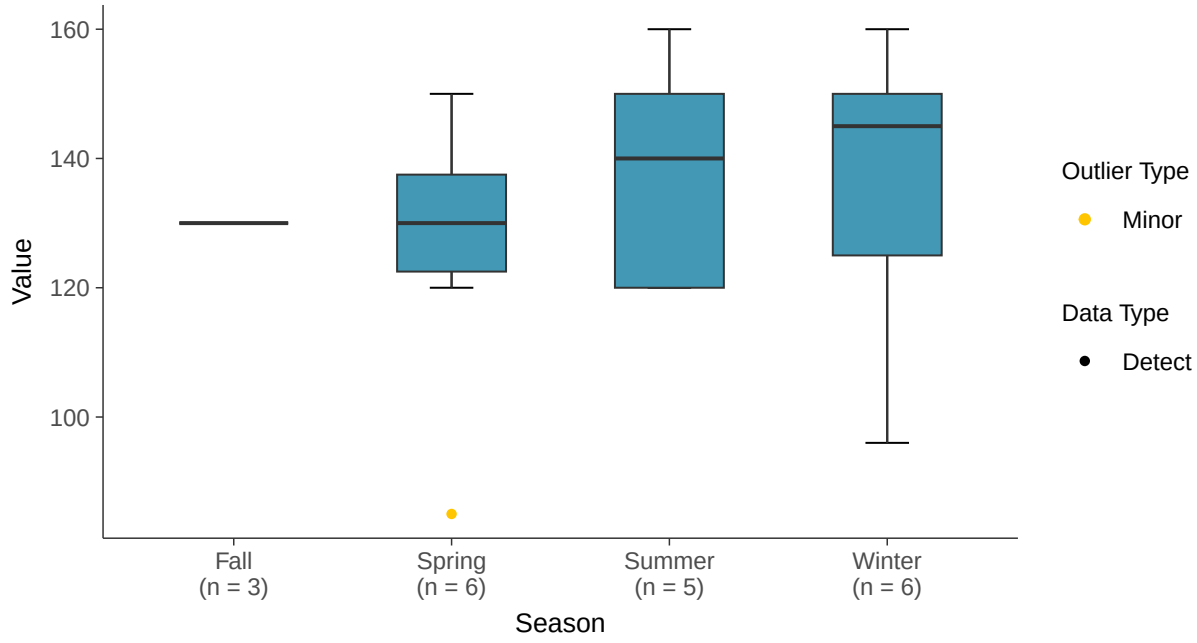
Boxplot

Calcium, MW-08 (mg/L)



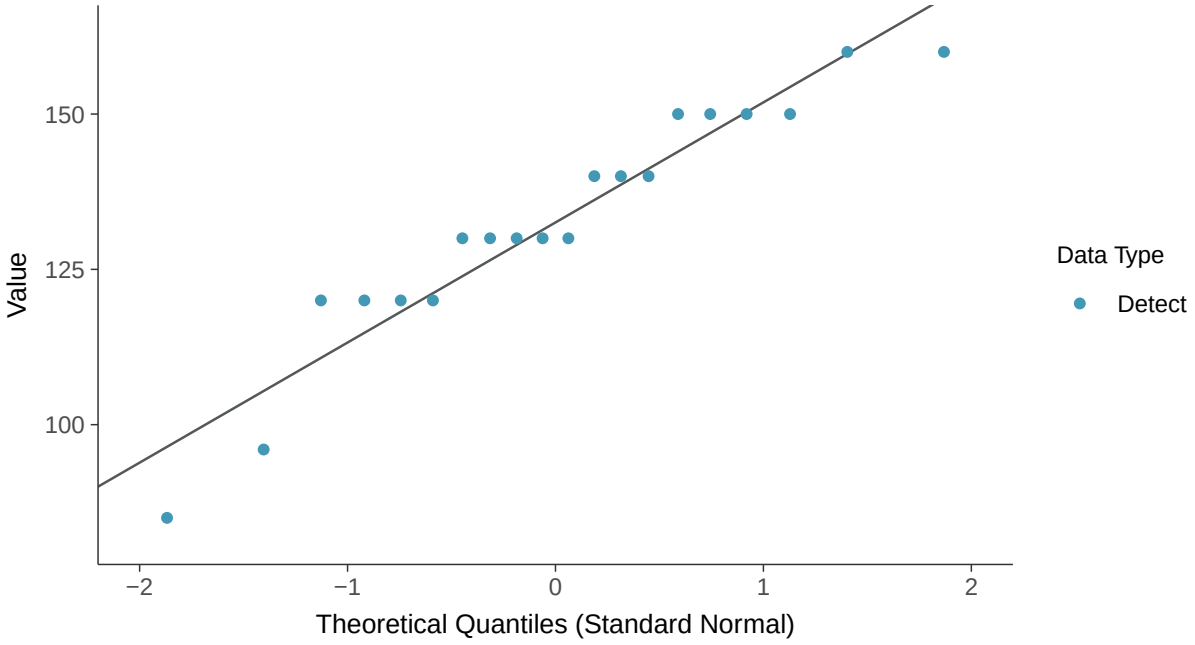
Boxplot by Season

Calcium, MW-08 (mg/L)



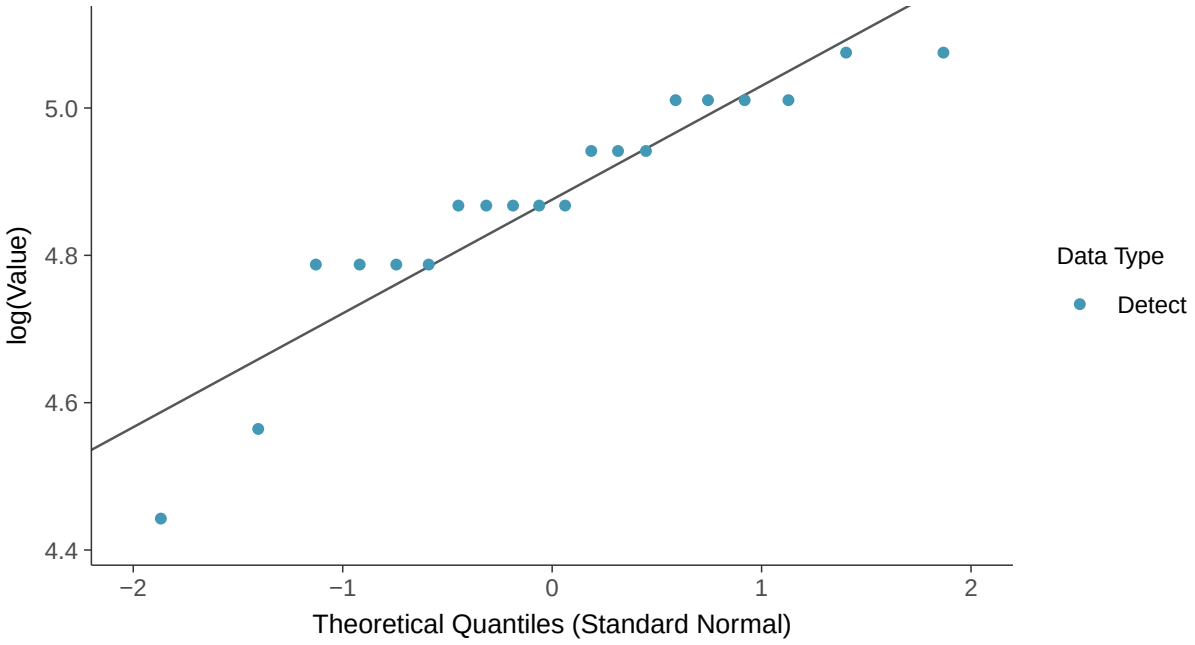
Normal Q-Q plot

Calcium, MW-08 (mg/L)



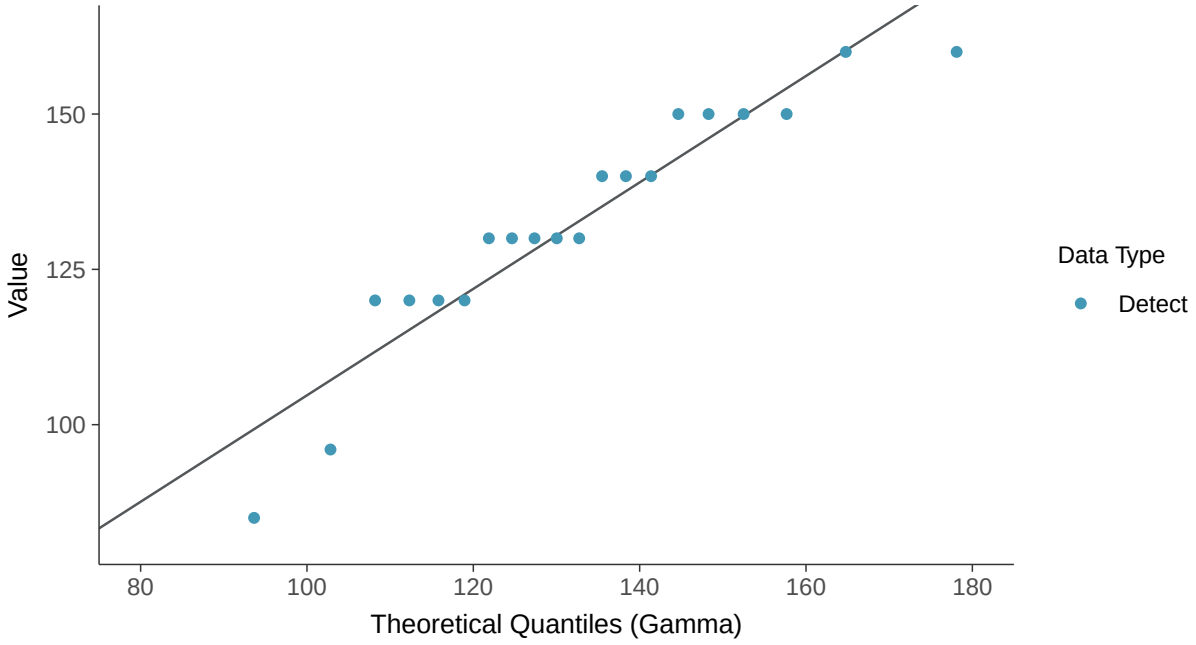
Lognormal Q-Q plot

Calcium, MW-08 (mg/L)



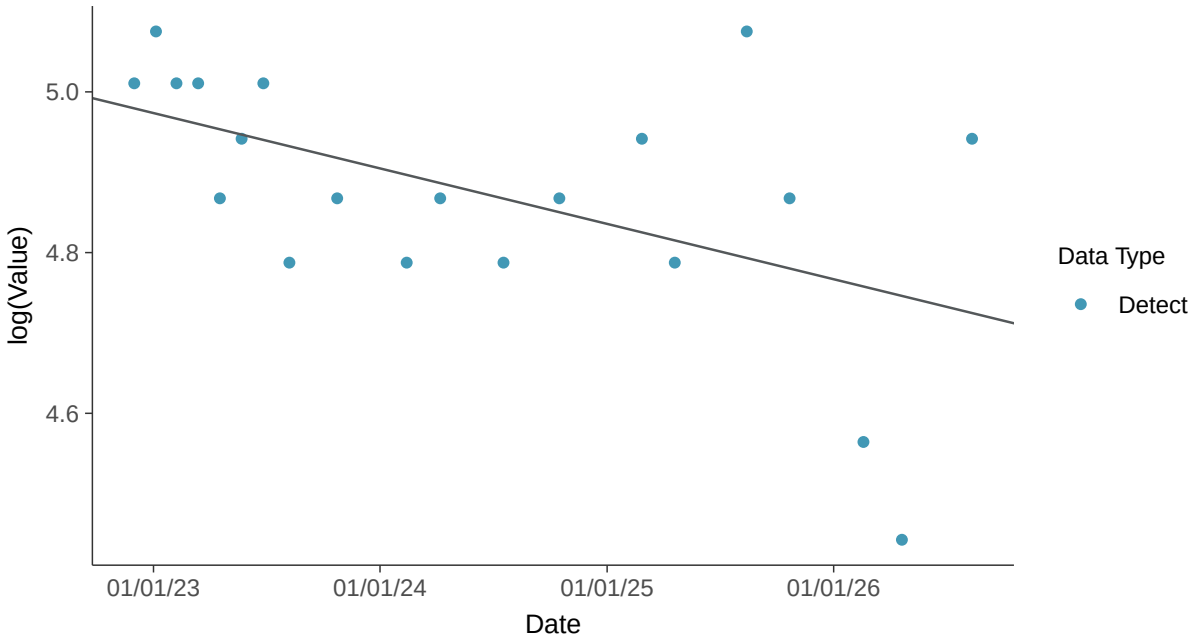
Gamma Q-Q plot

Calcium, MW-08 (mg/L)



Trend Regression: Lognormal MLE

Calcium, MW-08 (mg/L)

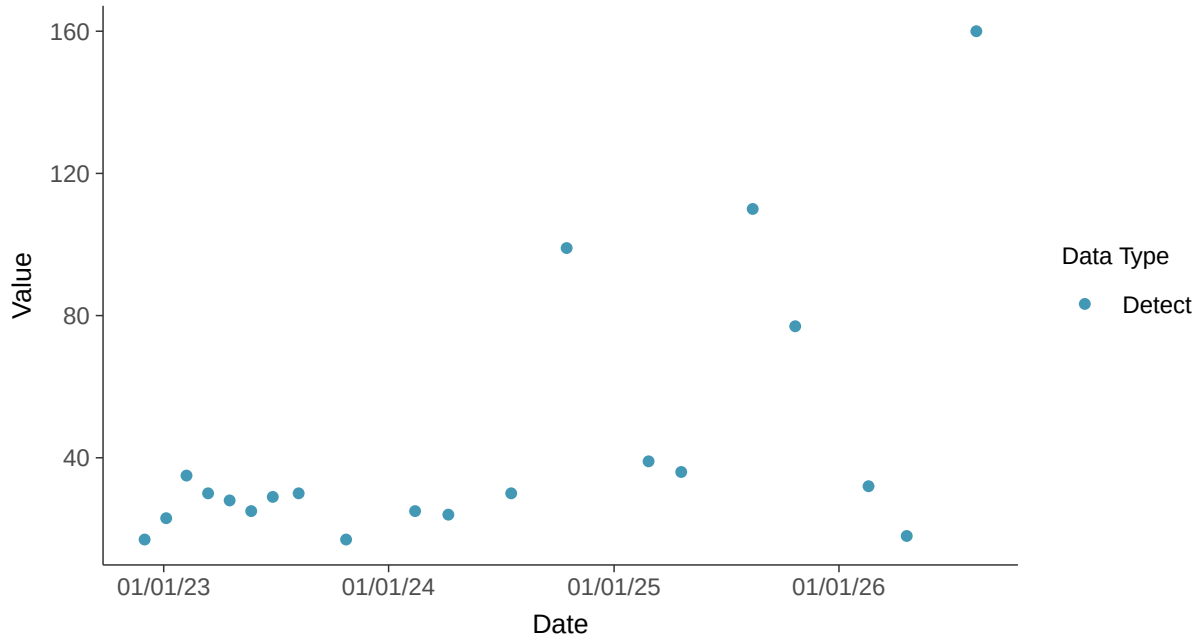


Appendix III: Chloride (as Cl), MW-08

ID: 18_1_3_108

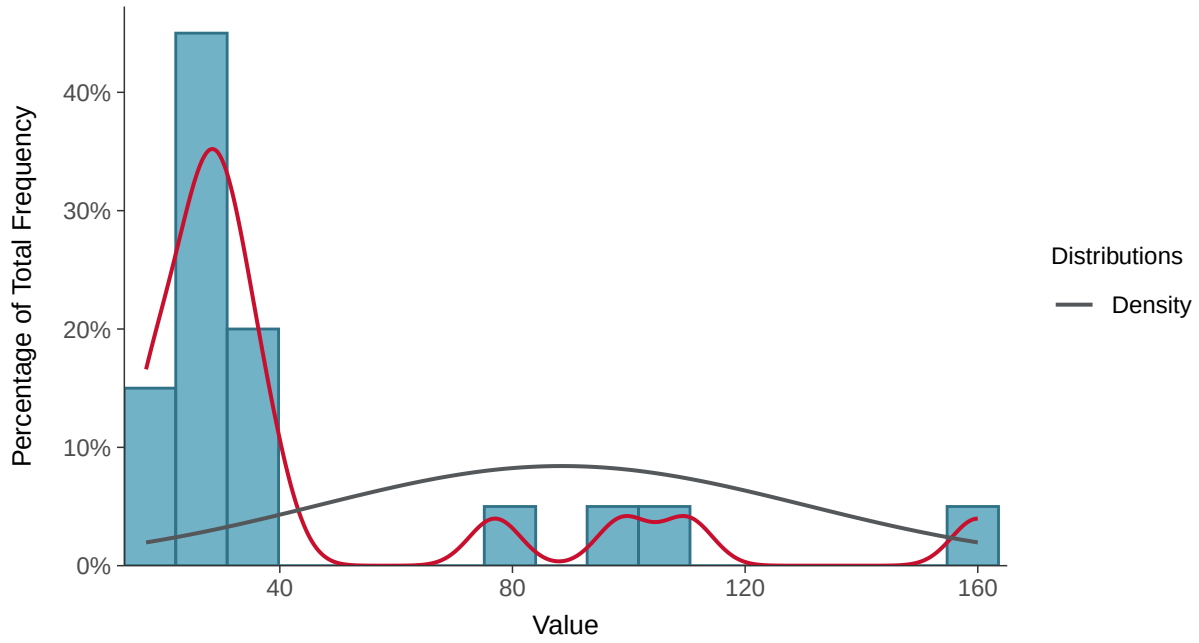
Scatter Plot

Chloride (as Cl), MW-08 (mg/L)



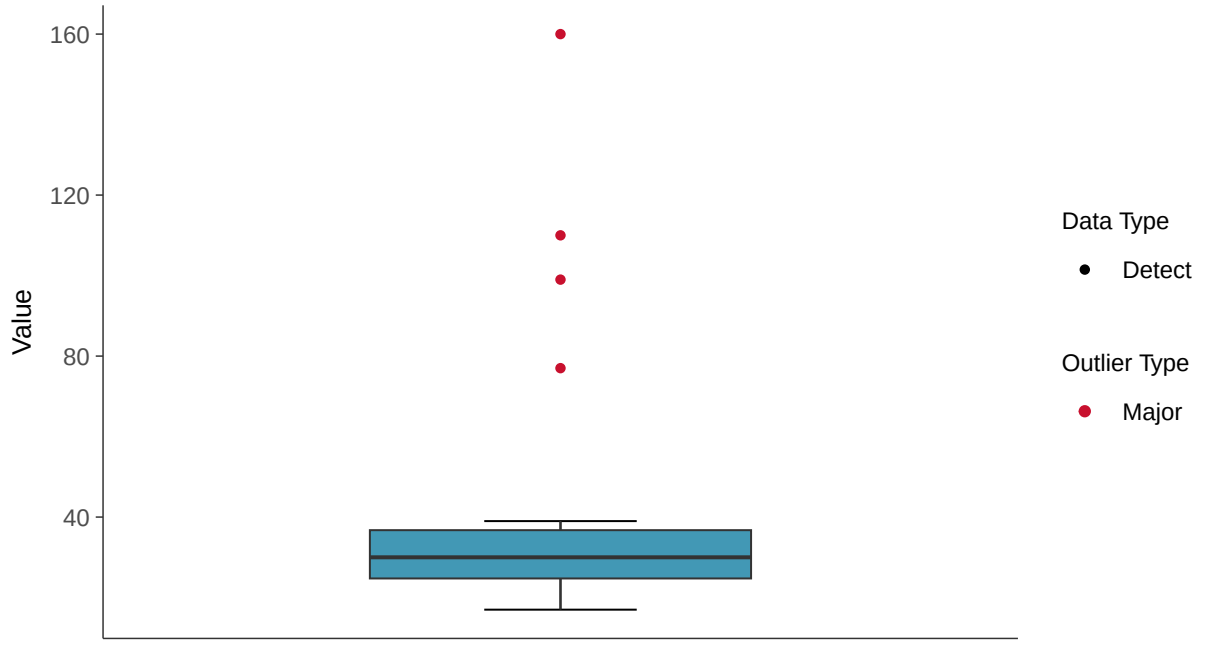
Histogram

Chloride (as Cl), MW-08 (mg/L)



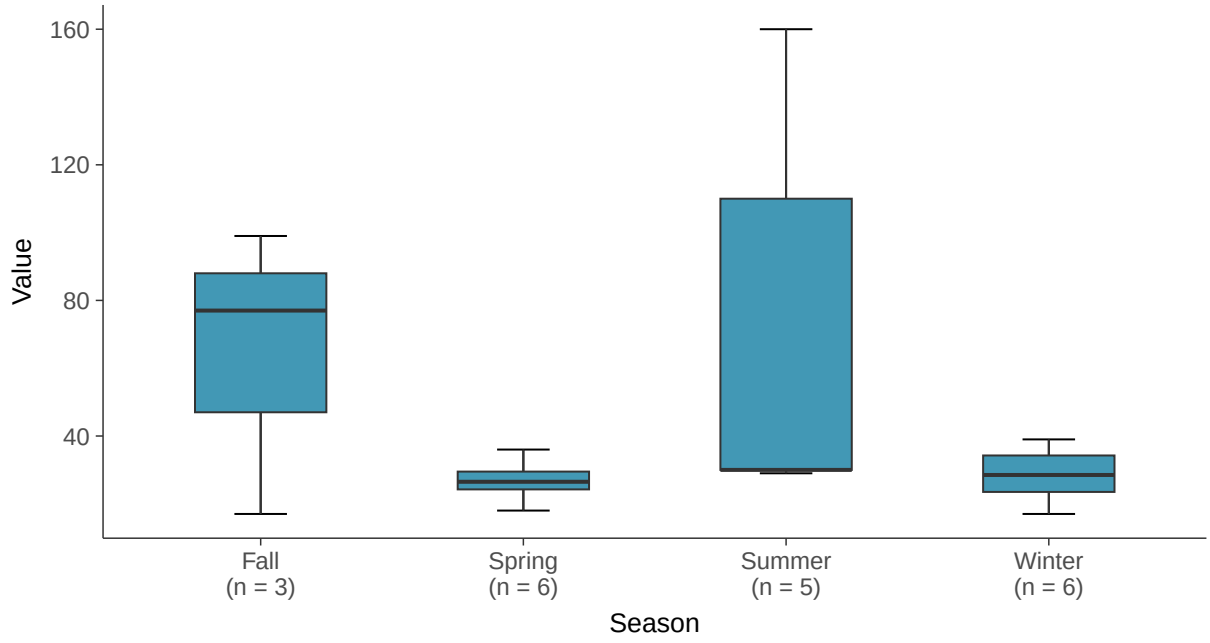
Boxplot

Chloride (as Cl), MW-08 (mg/L)



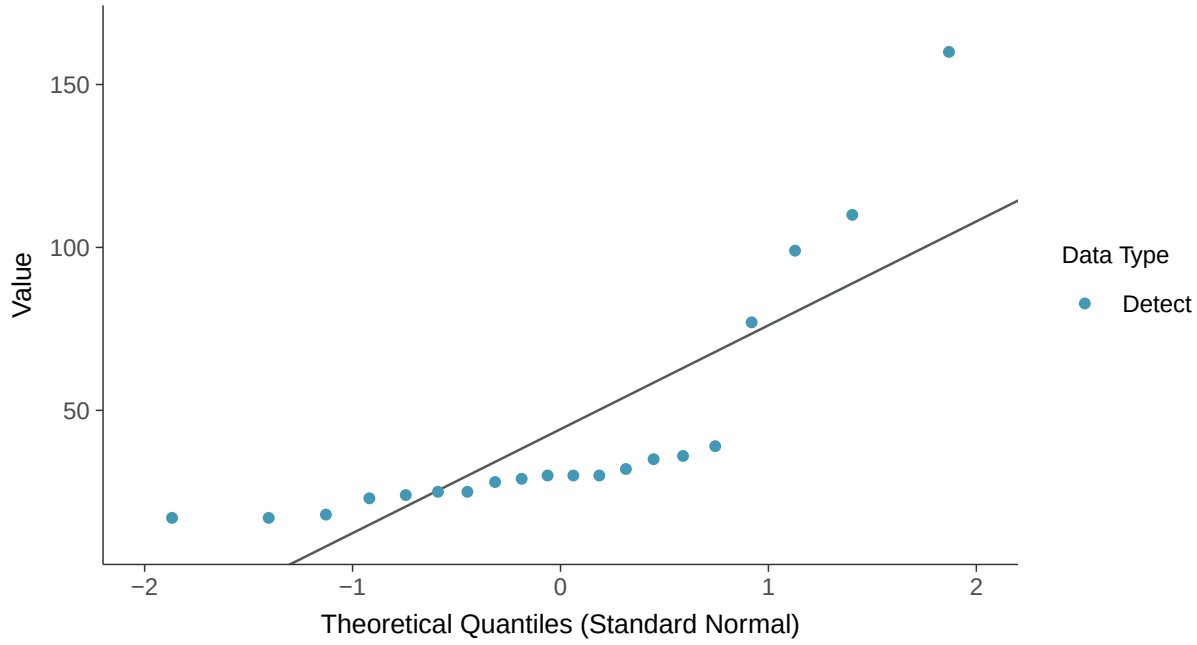
Boxplot by Season

Chloride (as Cl), MW-08 (mg/L)



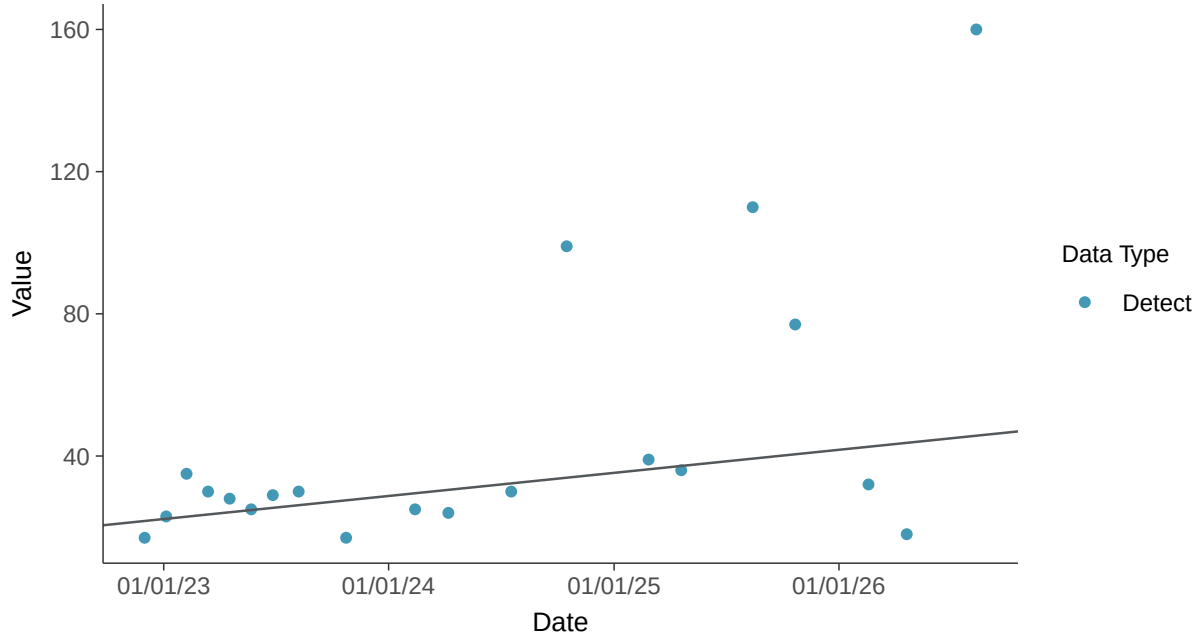
Normal Q-Q plot

Chloride (as Cl), MW-08 (mg/L)



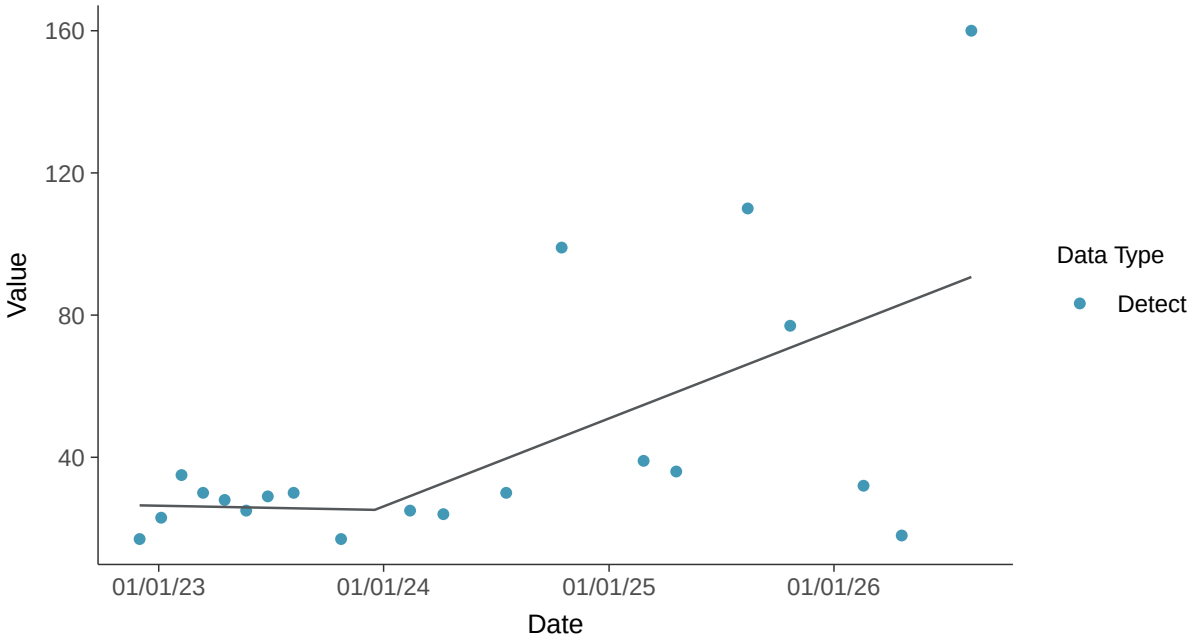
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Chloride (as Cl), MW-08 (mg/L)



Trend Regression: Piecewise Linear-Linear

Chloride (as Cl), MW-08 (mg/L)

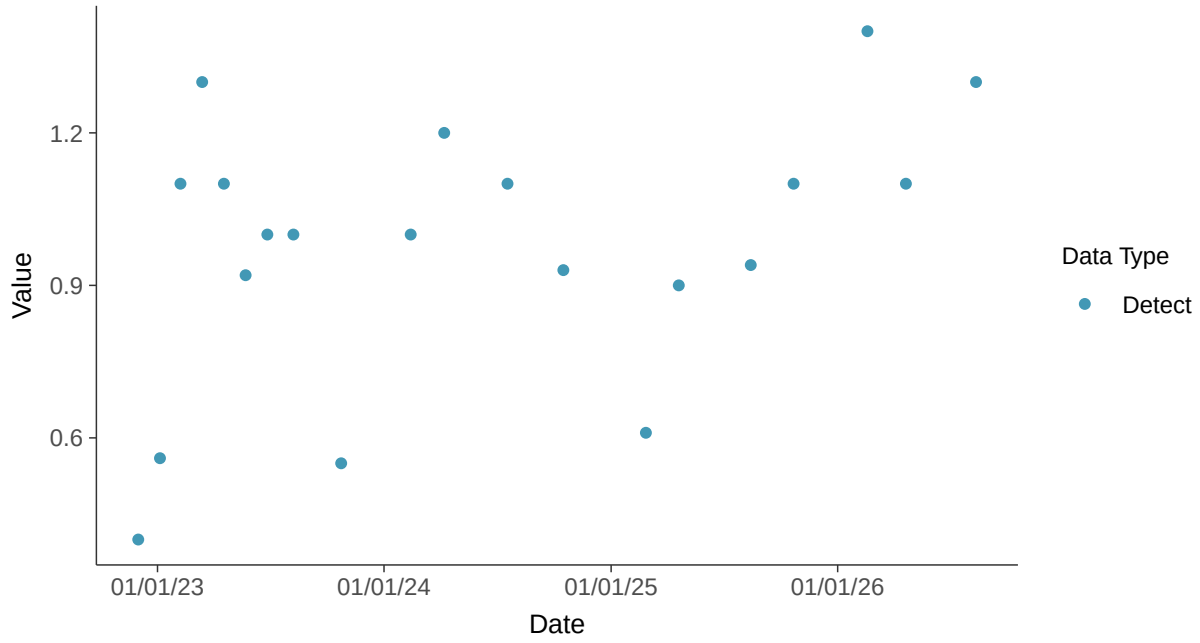


Appendix III: Fluoride, MW-08

ID: 18_1_3_112

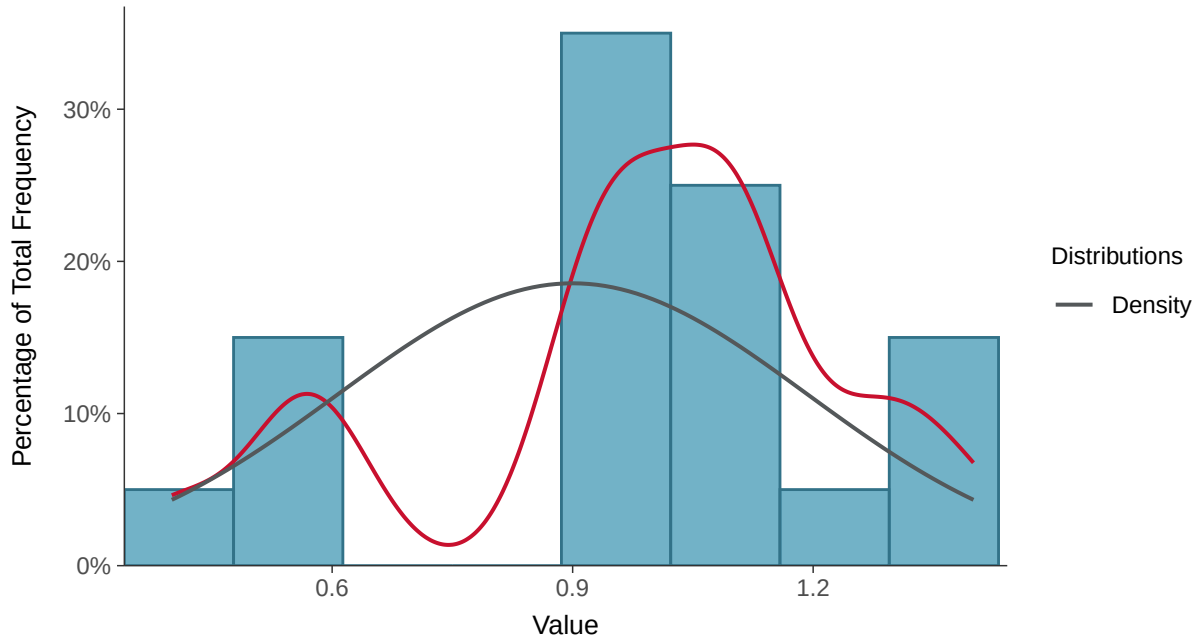
Scatter Plot

Fluoride, MW-08 (mg/L)



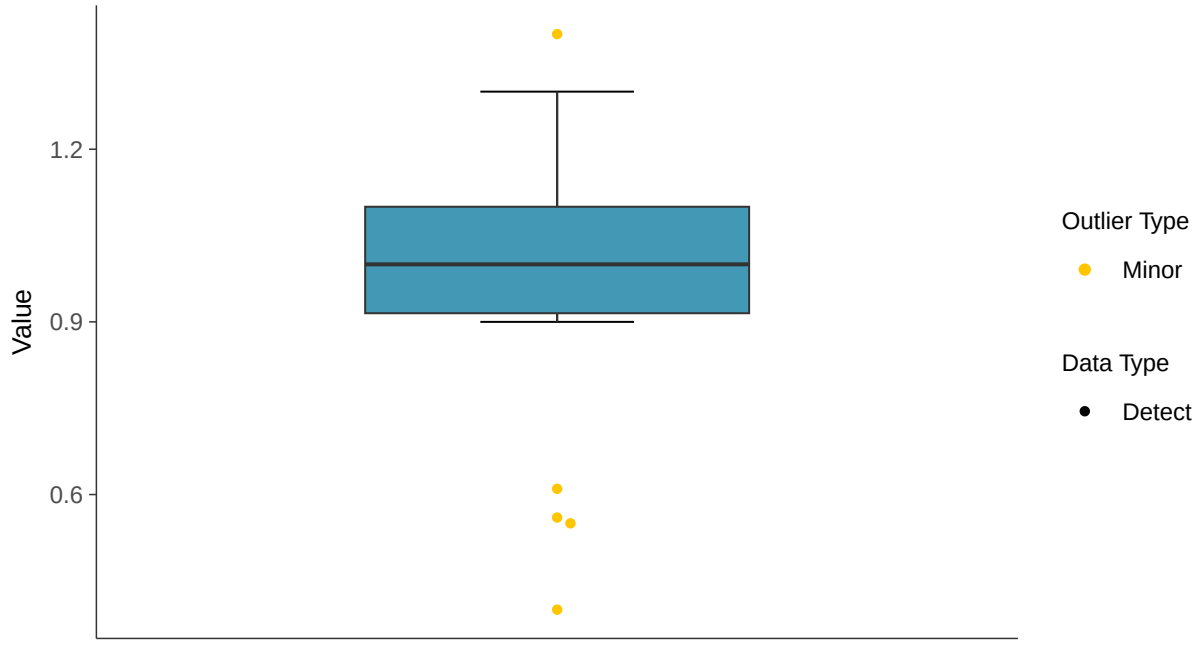
Histogram

Fluoride, MW-08 (mg/L)



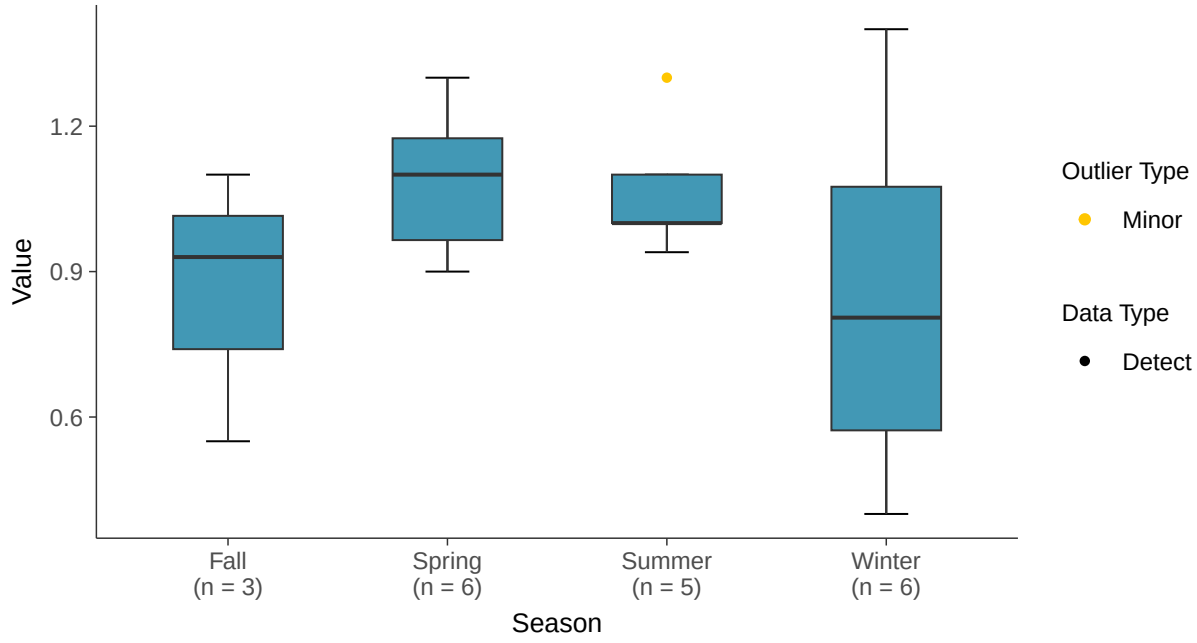
Boxplot

Fluoride, MW-08 (mg/L)



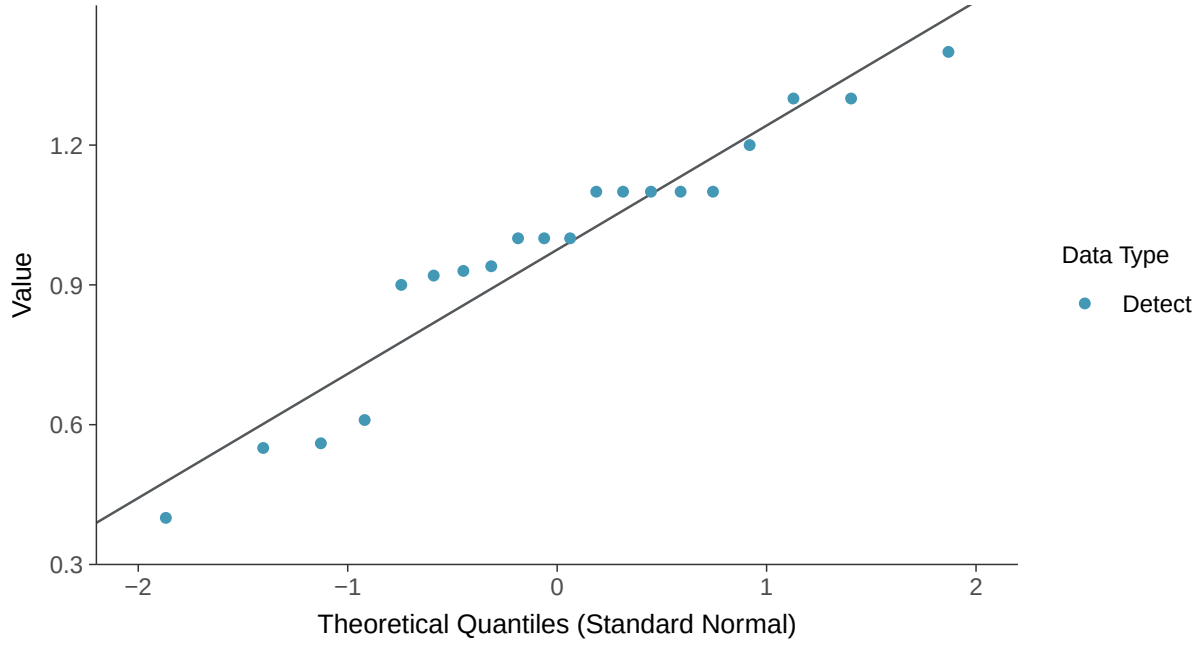
Boxplot by Season

Fluoride, MW-08 (mg/L)



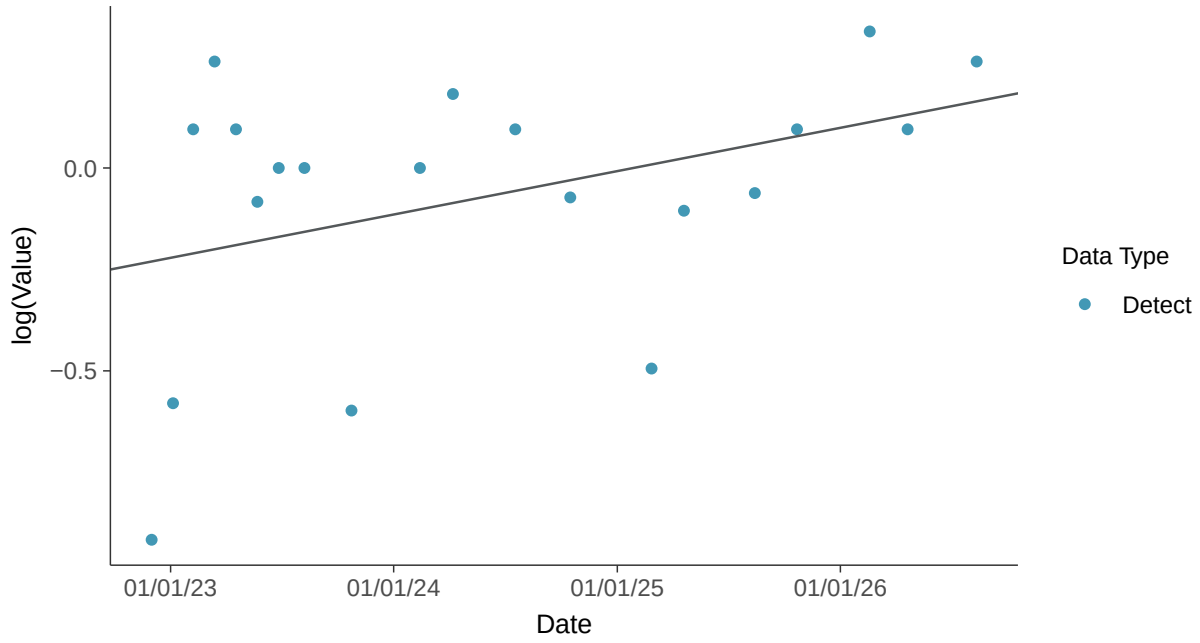
Normal Q-Q plot

Fluoride, MW-08 (mg/L)



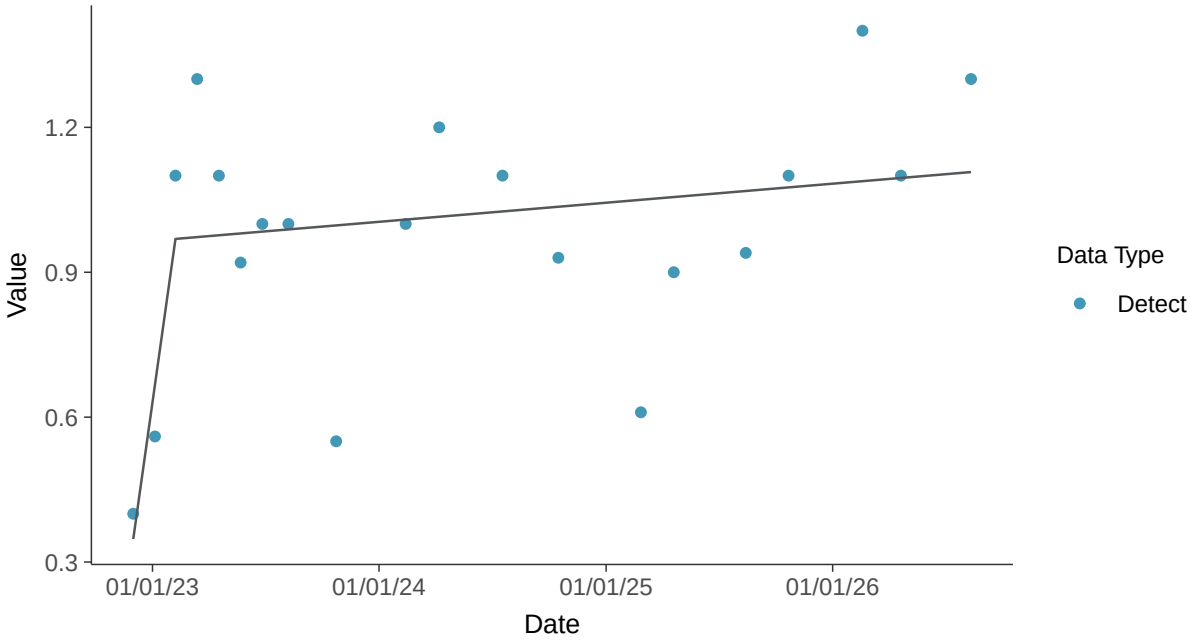
Trend Regression: Lognormal MLE

Fluoride, MW-08 (mg/L)



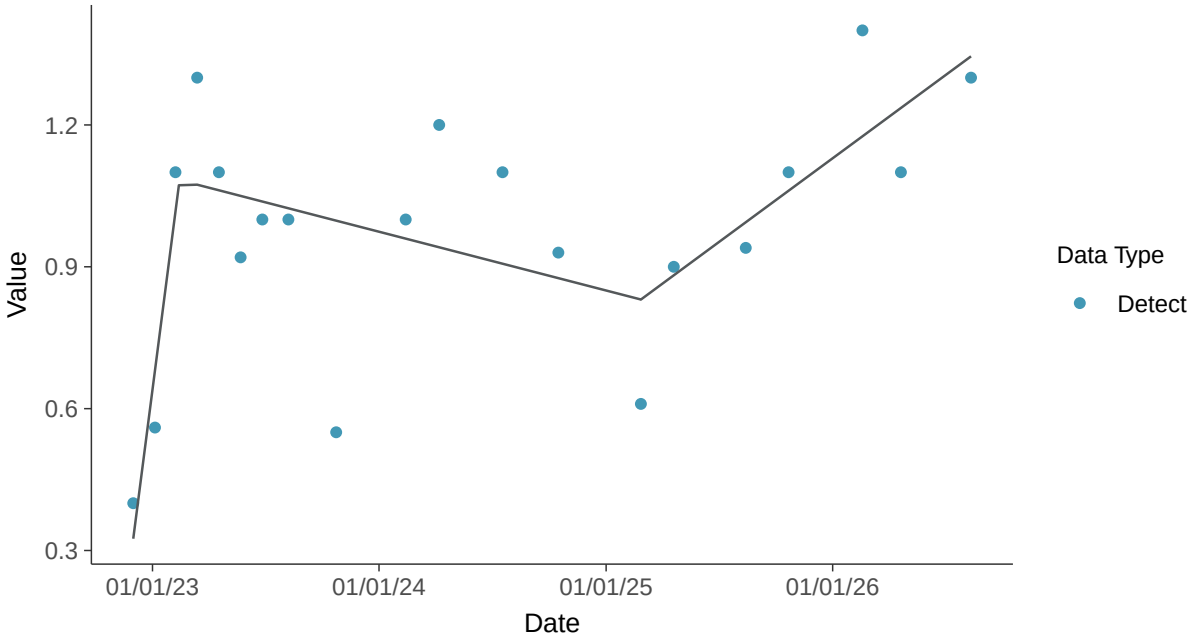
Trend Regression: Piecewise Linear-Linear

Fluoride, MW-08 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Fluoride, MW-08 (mg/L)

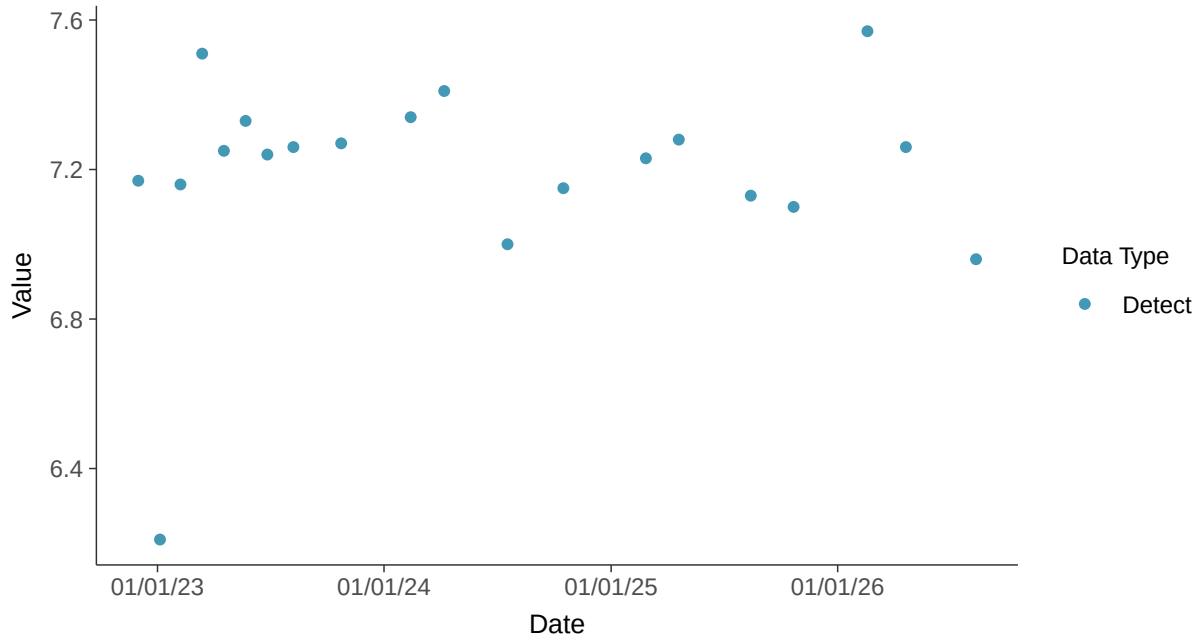


Appendix III: pH (field), MW-08

ID: 18_1_3_120

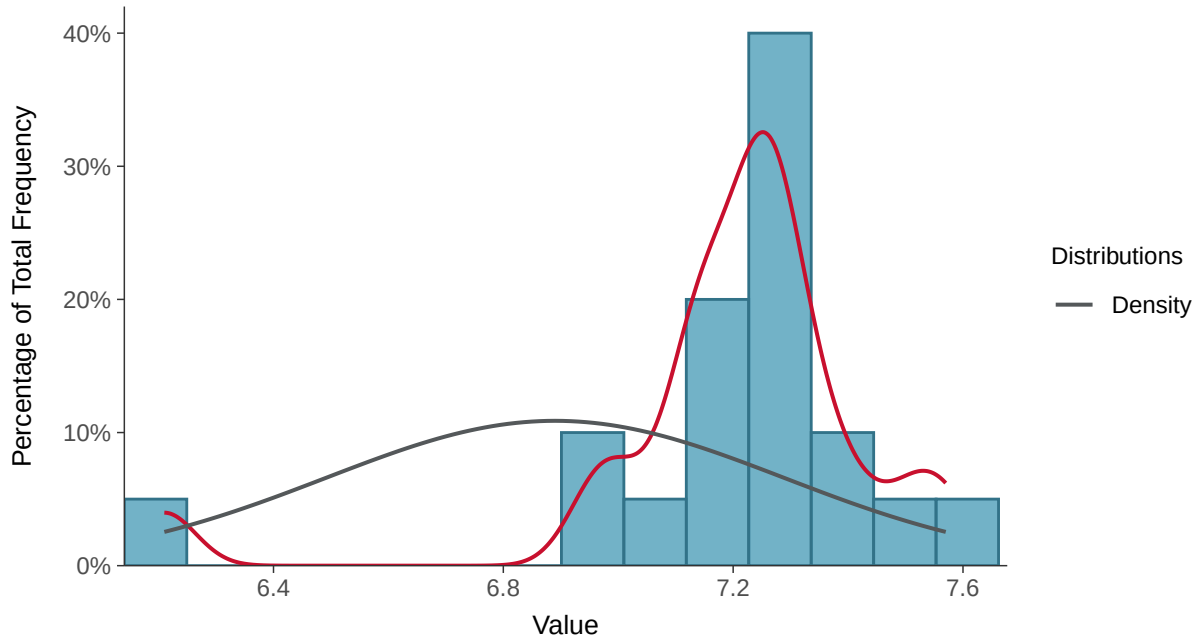
Scatter Plot

pH (field), MW-08 (su)



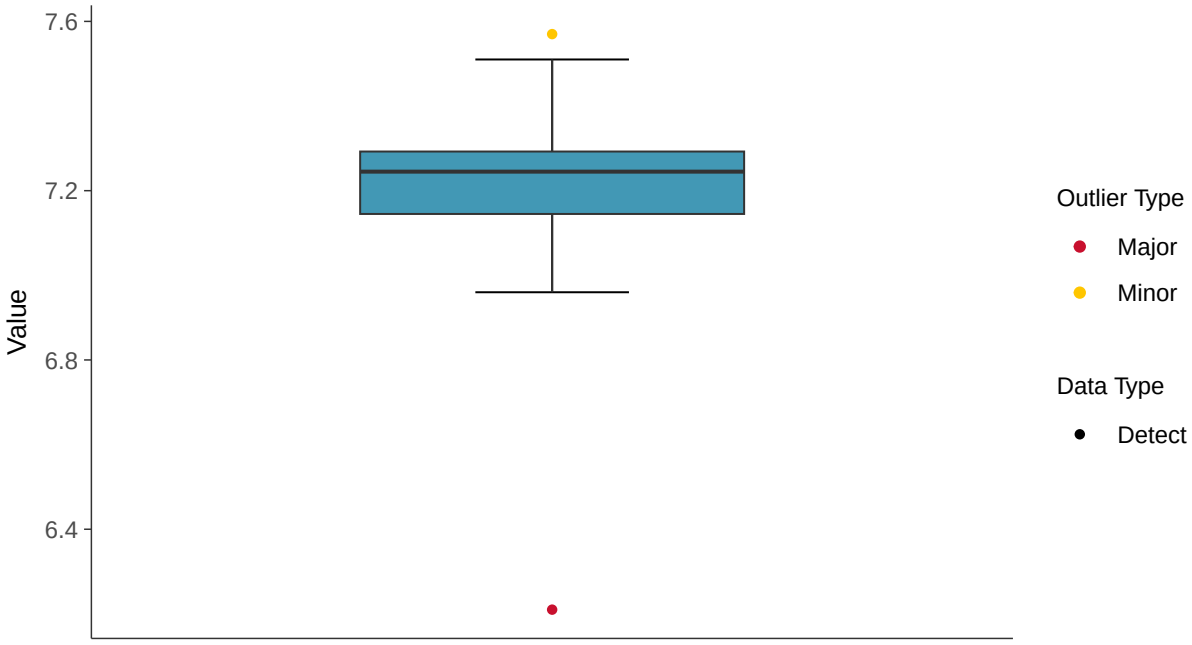
Histogram

pH (field), MW-08 (su)



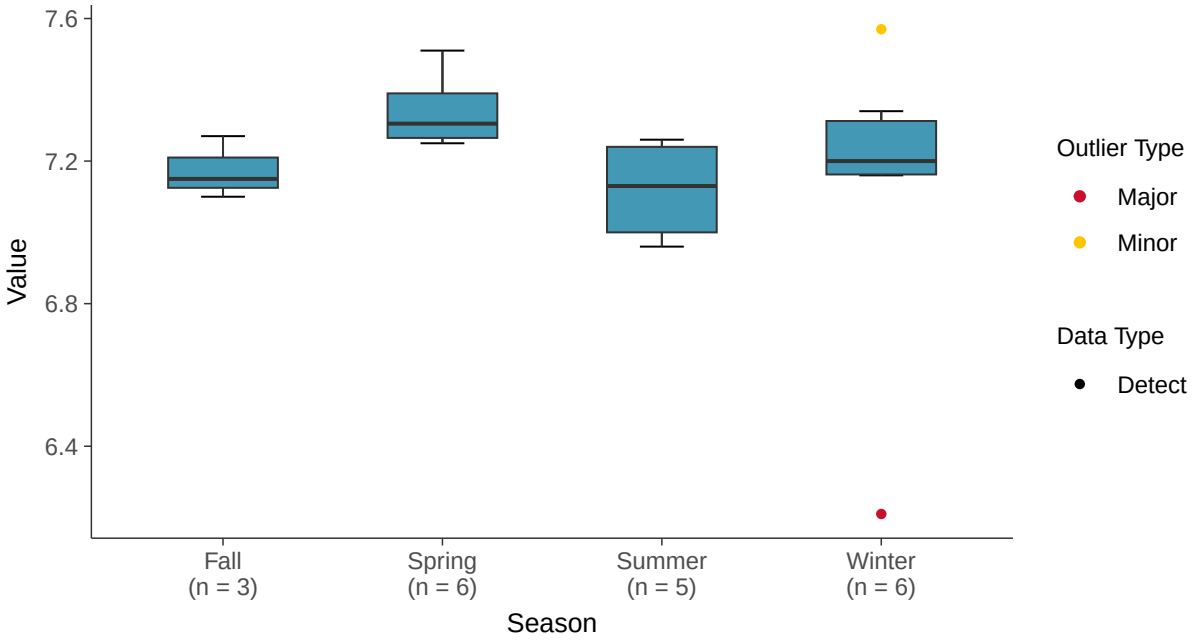
Boxplot

pH (field), MW-08 (su)



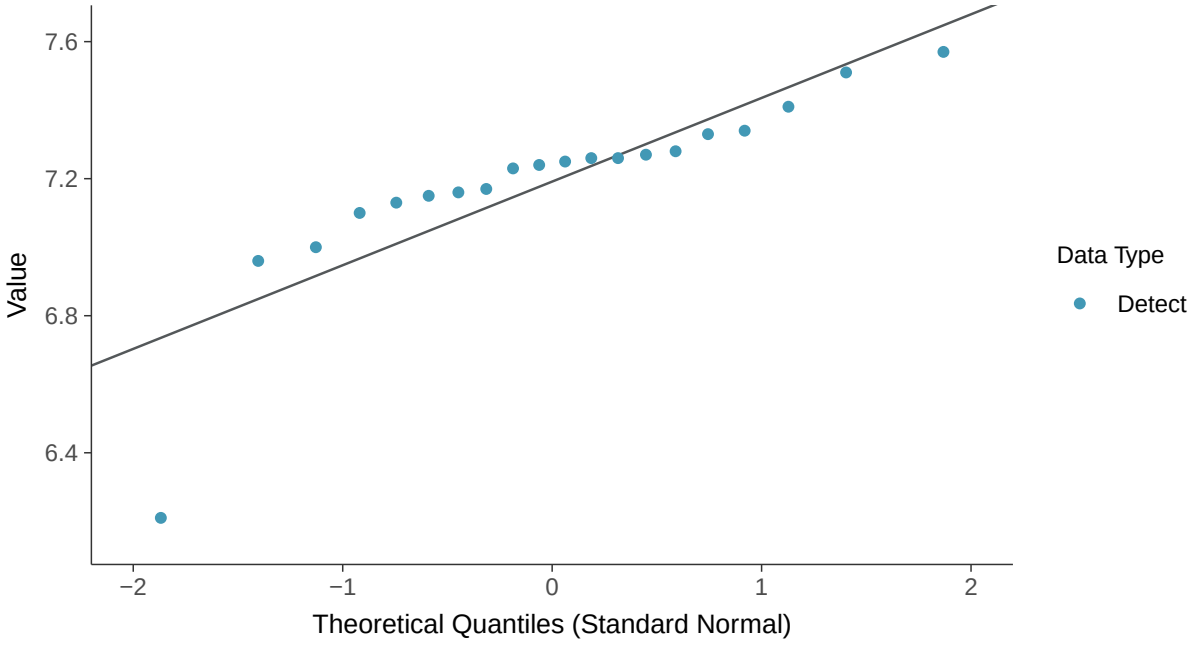
Boxplot by Season

pH (field), MW-08 (su)



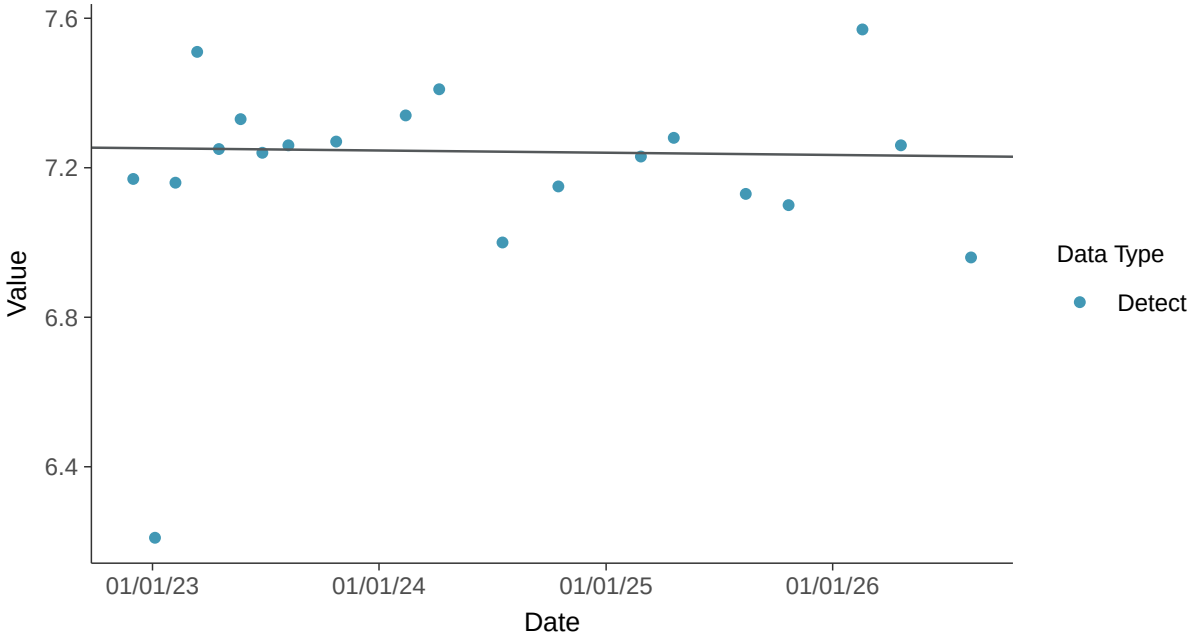
Normal Q-Q plot

pH (field), MW-08 (su)



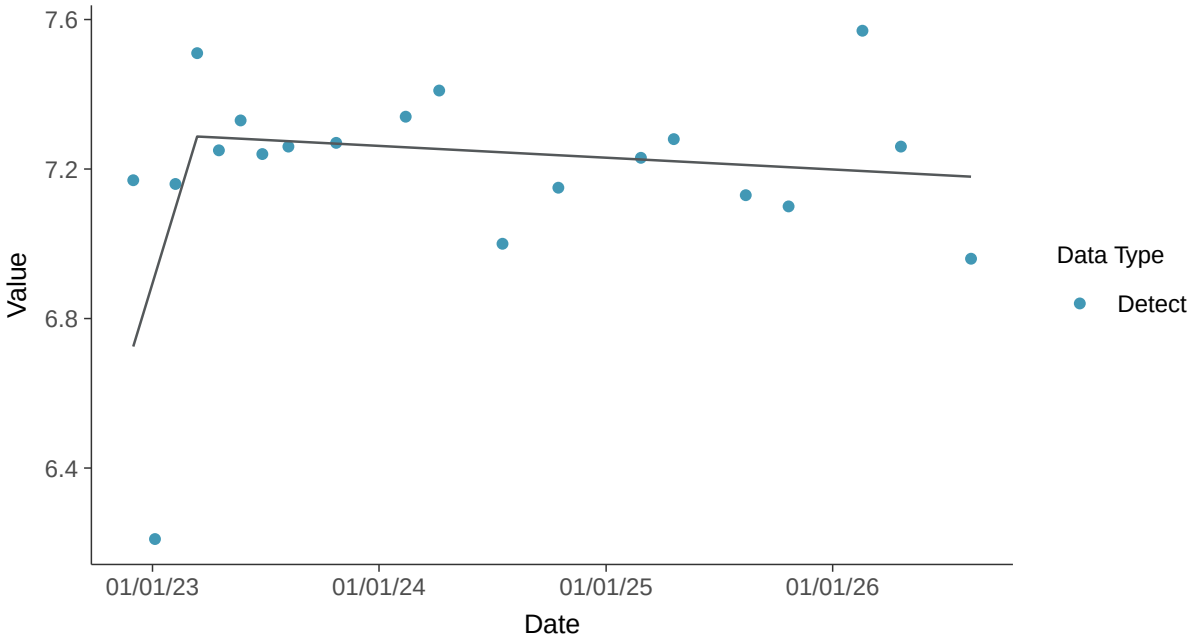
Trend Regression: Mann-Kendall/Theil-Sen Estimate

pH (field), MW-08 (su)



Trend Regression: Piecewise Linear-Linear

pH (field), MW-08 (su)

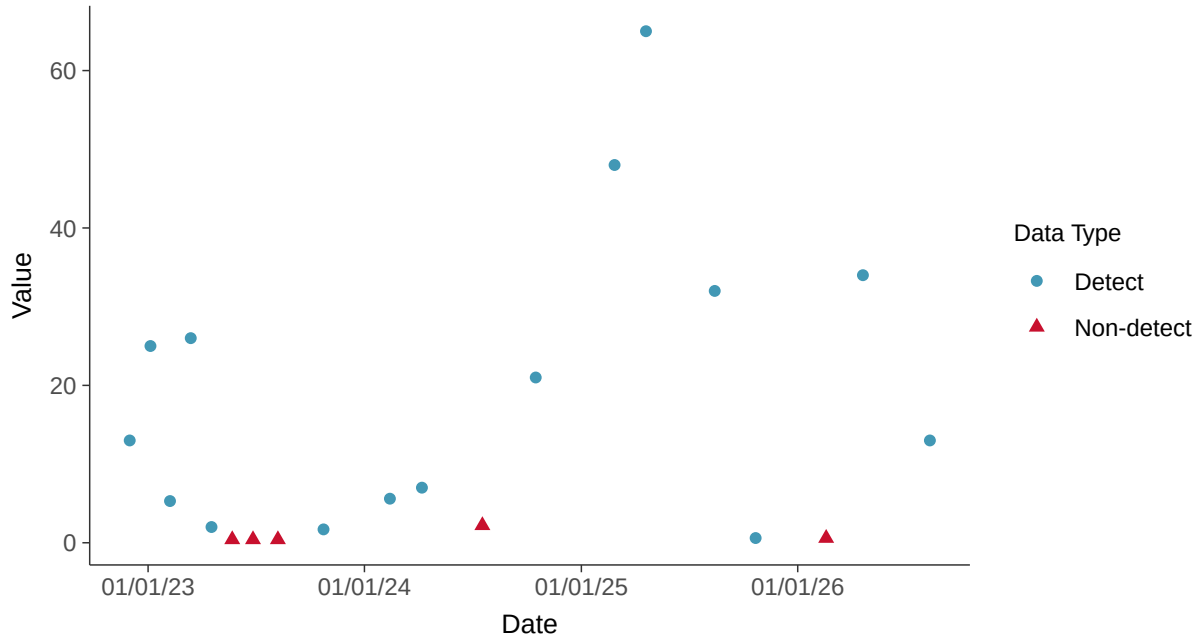


Appendix III: Sulfate (as SO4), MW-08

ID: 18_1_3_124

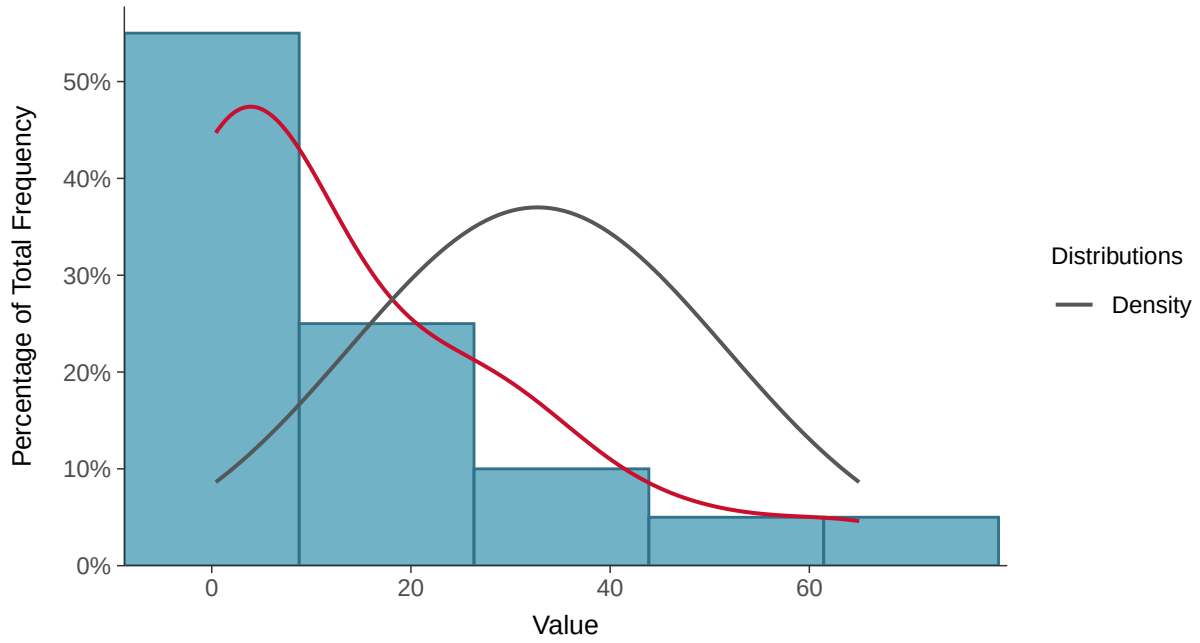
Scatter Plot

Sulfate (as SO4), MW-08 (mg/L)



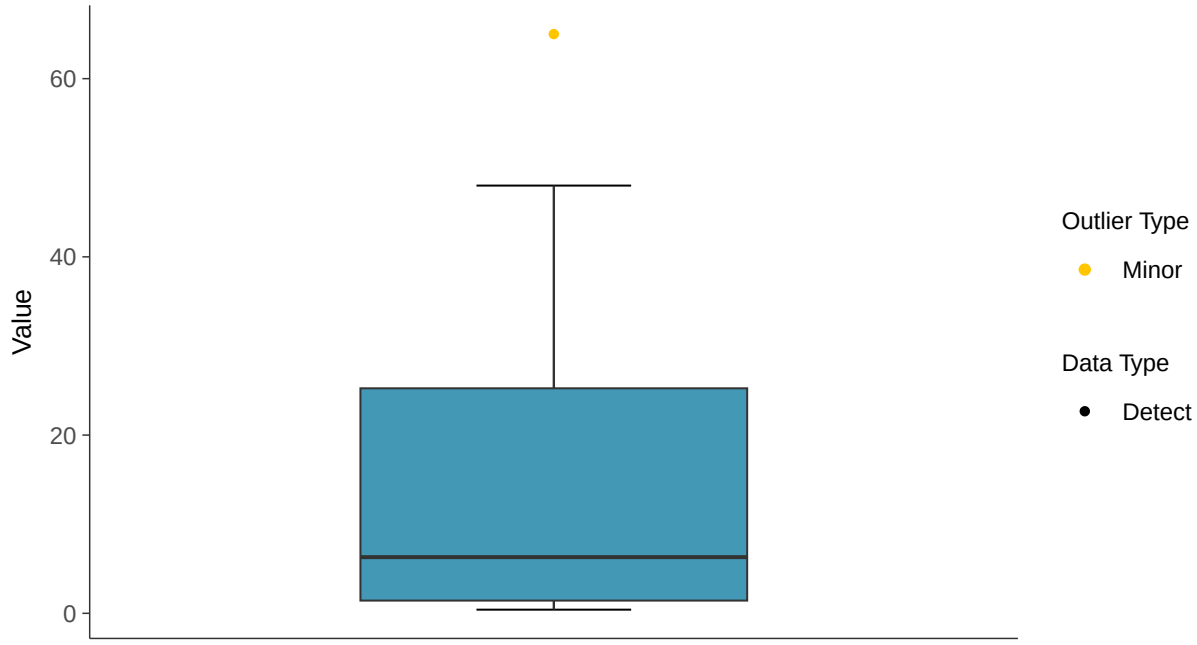
Histogram

Sulfate (as SO4), MW-08 (mg/L)



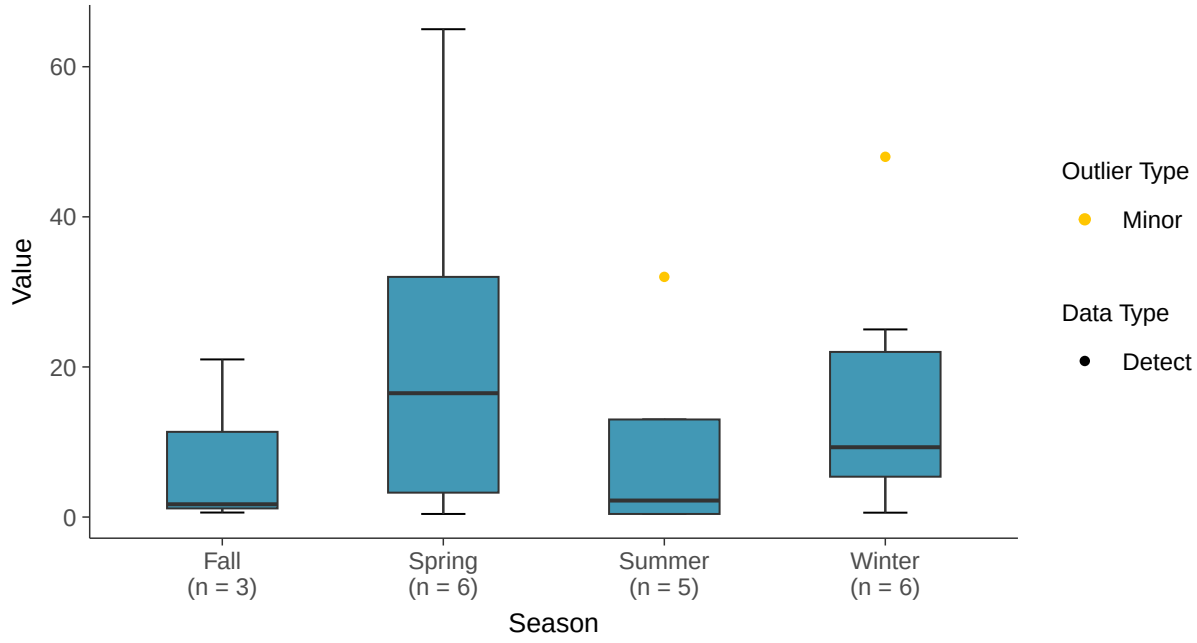
Boxplot

Sulfate (as SO4), MW-08 (mg/L)



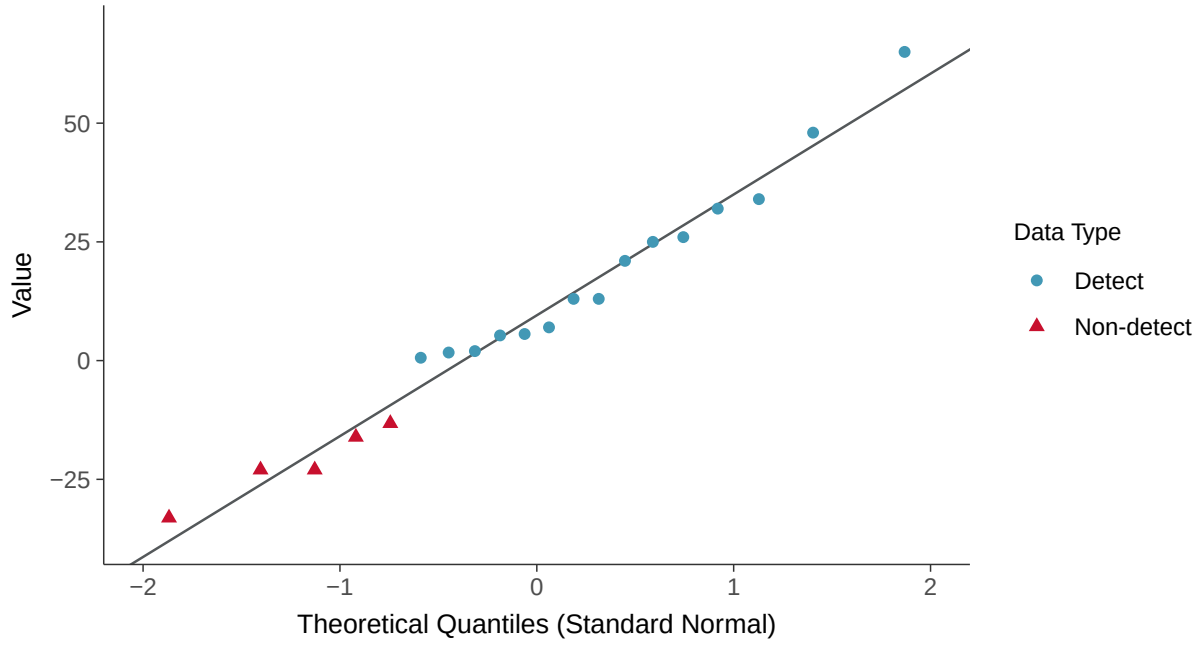
Boxplot by Season

Sulfate (as SO4), MW-08 (mg/L)



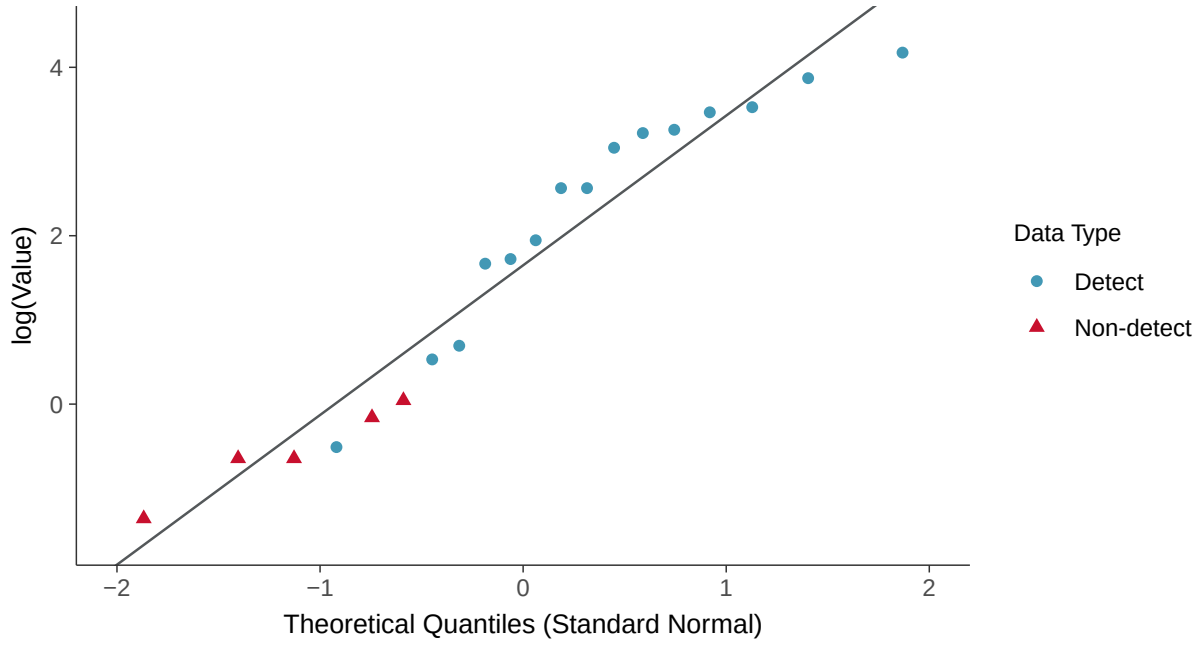
Normal Q-Q plot using ROS Imputed Estimates

Sulfate (as SO4), MW-08 (mg/L)



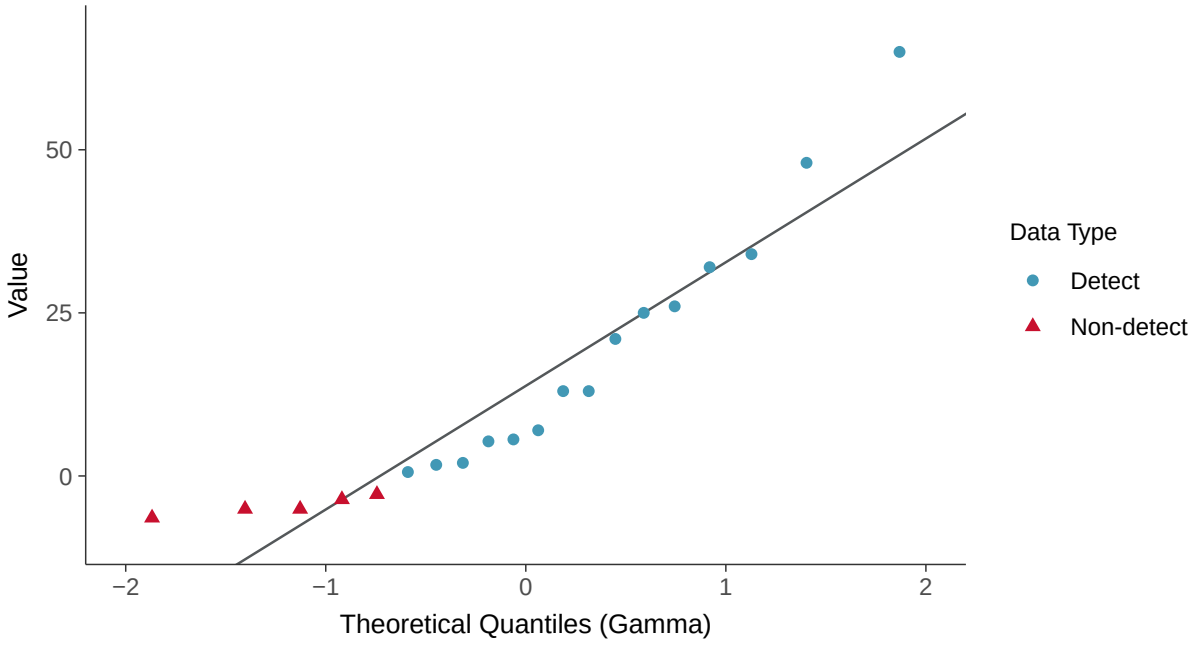
Lognormal Q-Q plot using ROS Imputed Estimates

Sulfate (as SO4), MW-08 (mg/L)



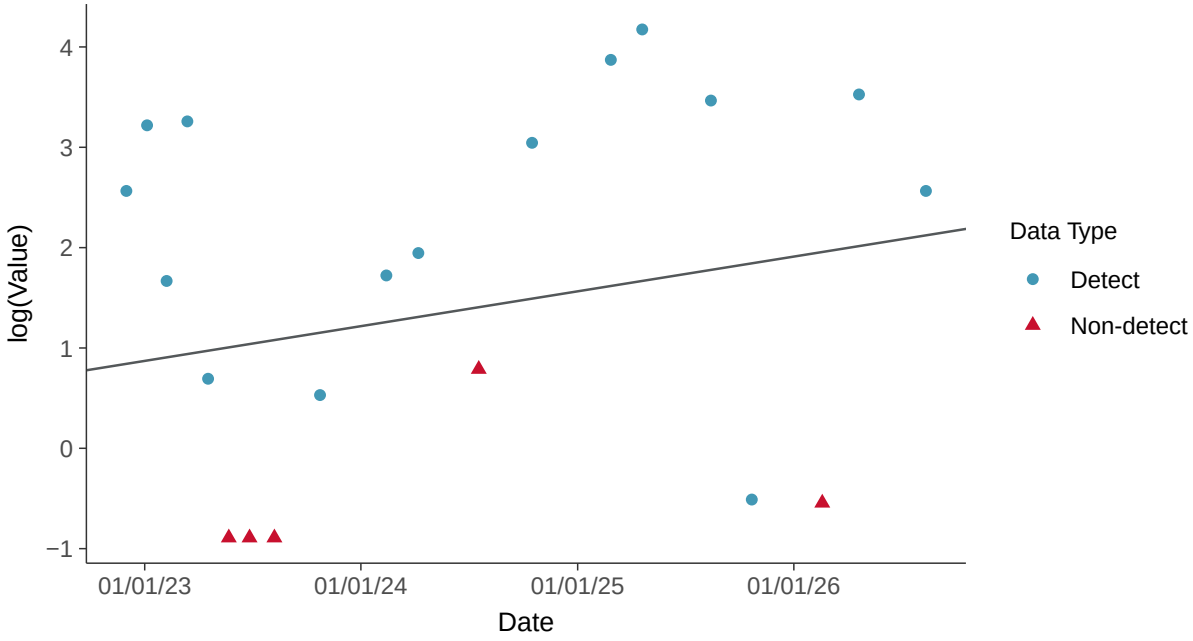
Gamma Q-Q plot using ROS Imputed Estimates

Sulfate (as SO4), MW-08 (mg/L)



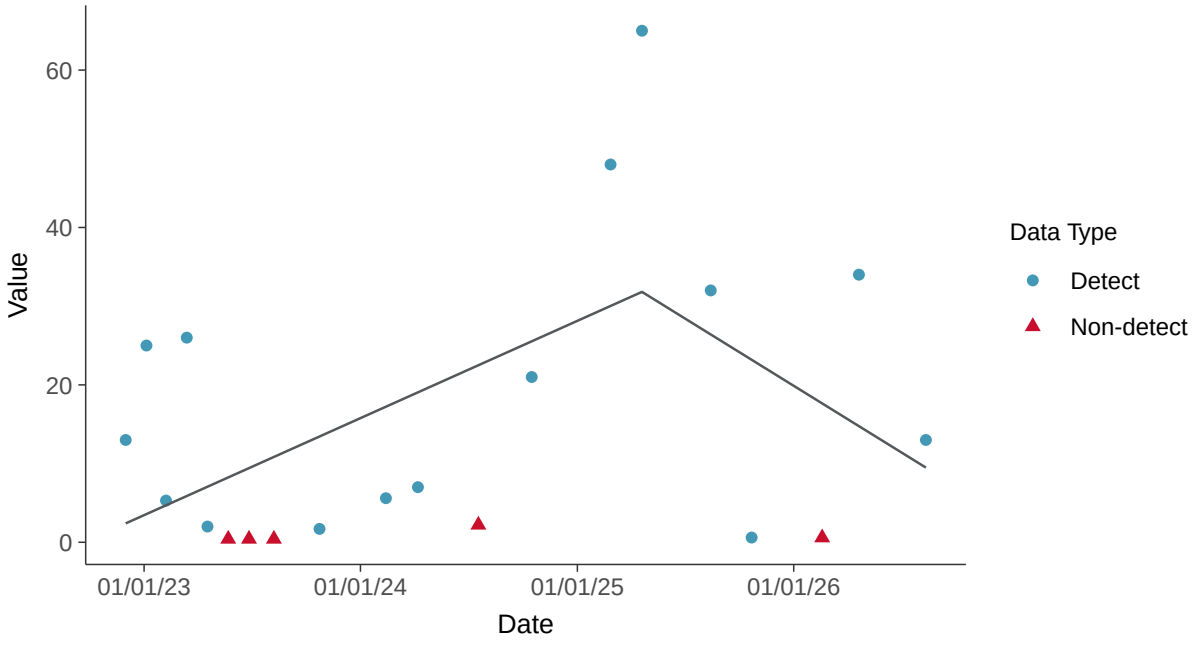
Trend Regression: Lognormal MLE

Sulfate (as SO4), MW-08 (mg/L)



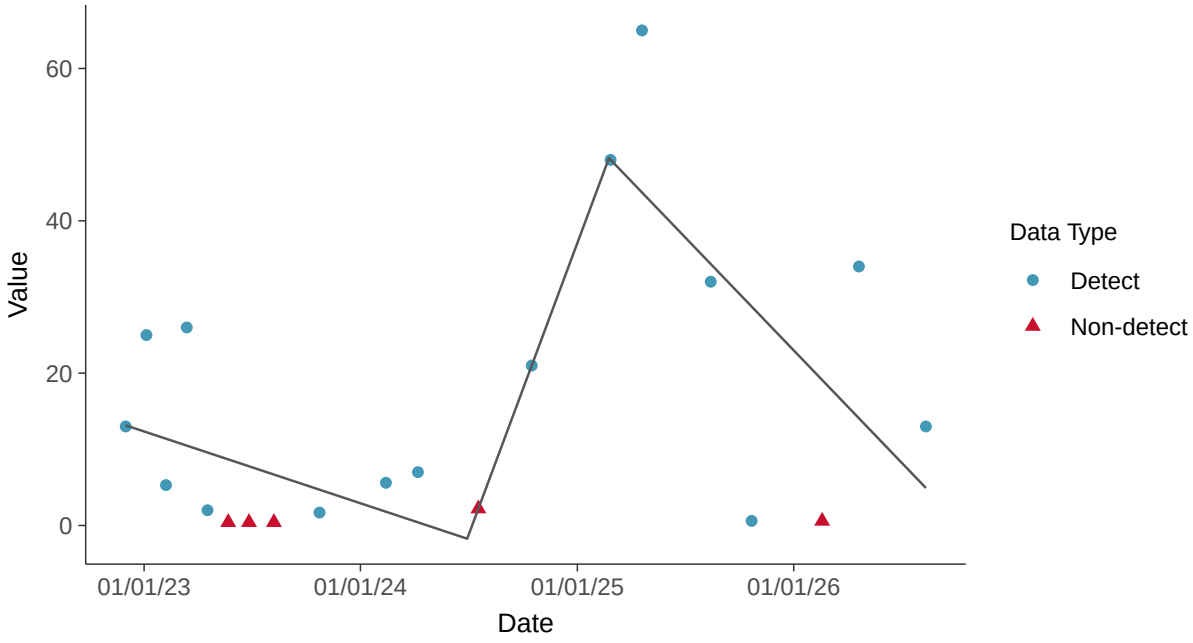
Trend Regression: Piecewise Linear-Linear

Sulfate (as SO4), MW-08 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Sulfate (as SO4), MW-08 (mg/L)

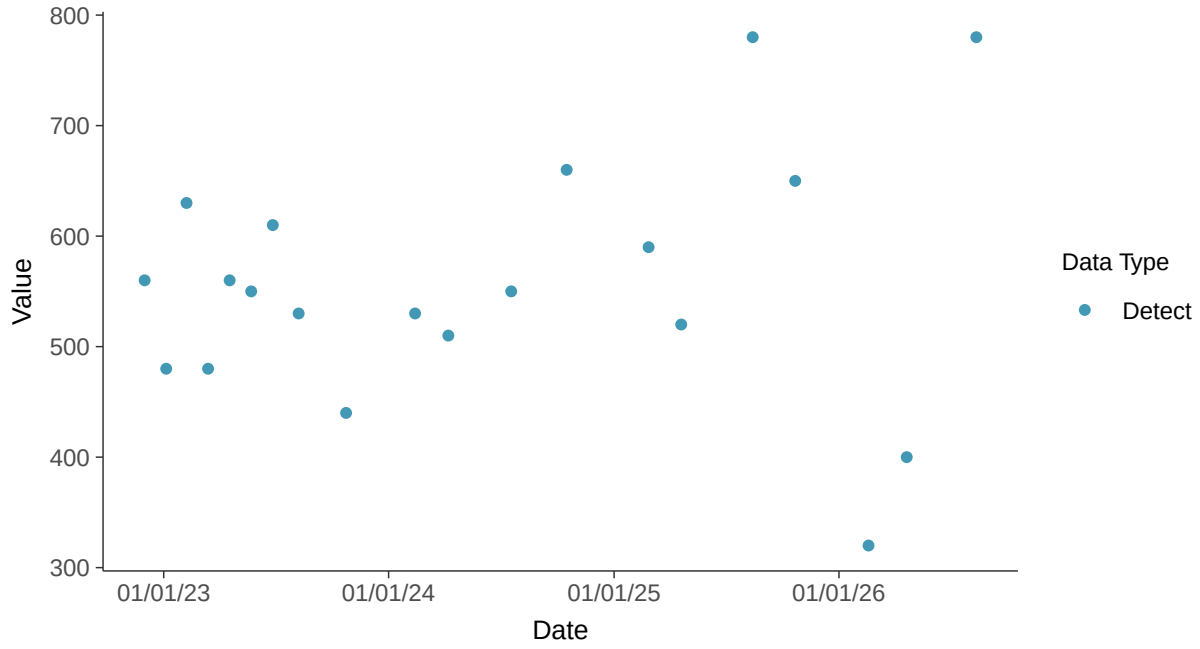


Appendix III: Total Dissolved Solids, MW-08

ID: 18_1_3_126

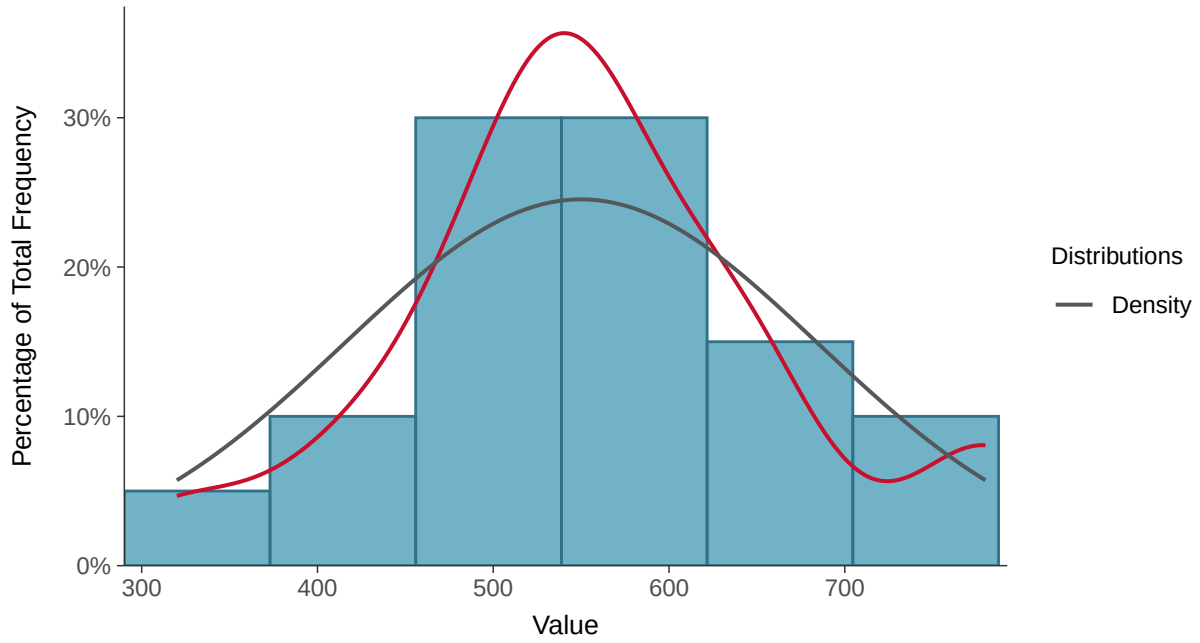
Scatter Plot

Total Dissolved Solids, MW-08 (mg/L)



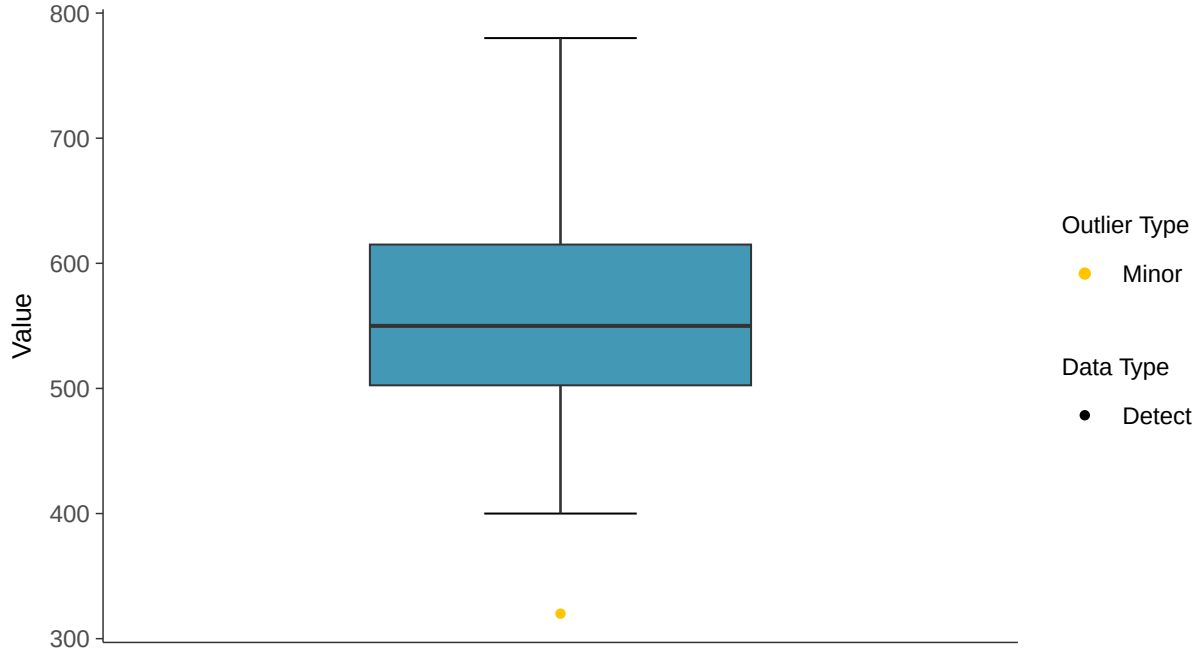
Histogram

Total Dissolved Solids, MW-08 (mg/L)



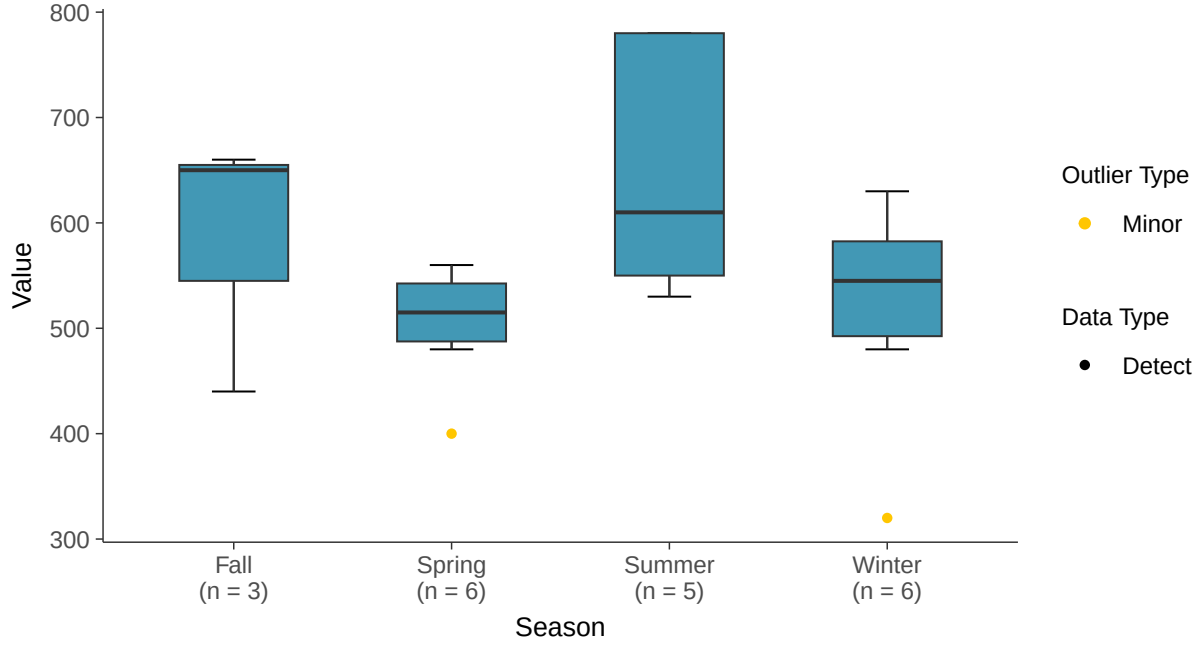
Boxplot

Total Dissolved Solids, MW-08 (mg/L)



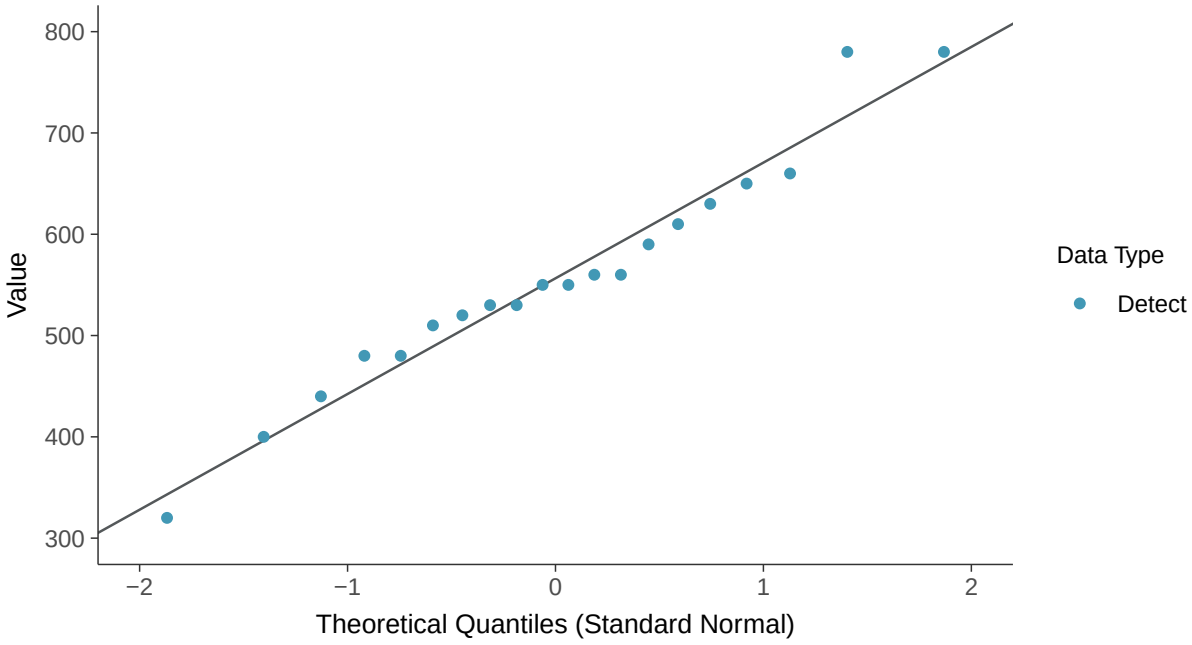
Boxplot by Season

Total Dissolved Solids, MW-08 (mg/L)



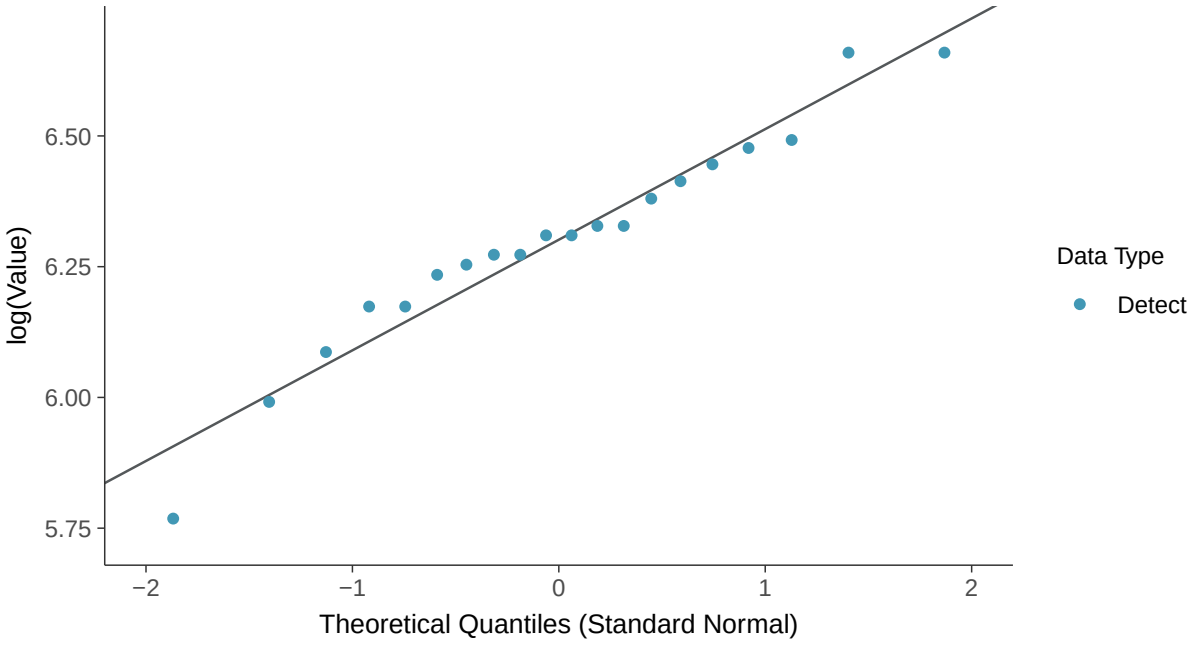
Normal Q-Q plot

Total Dissolved Solids, MW-08 (mg/L)



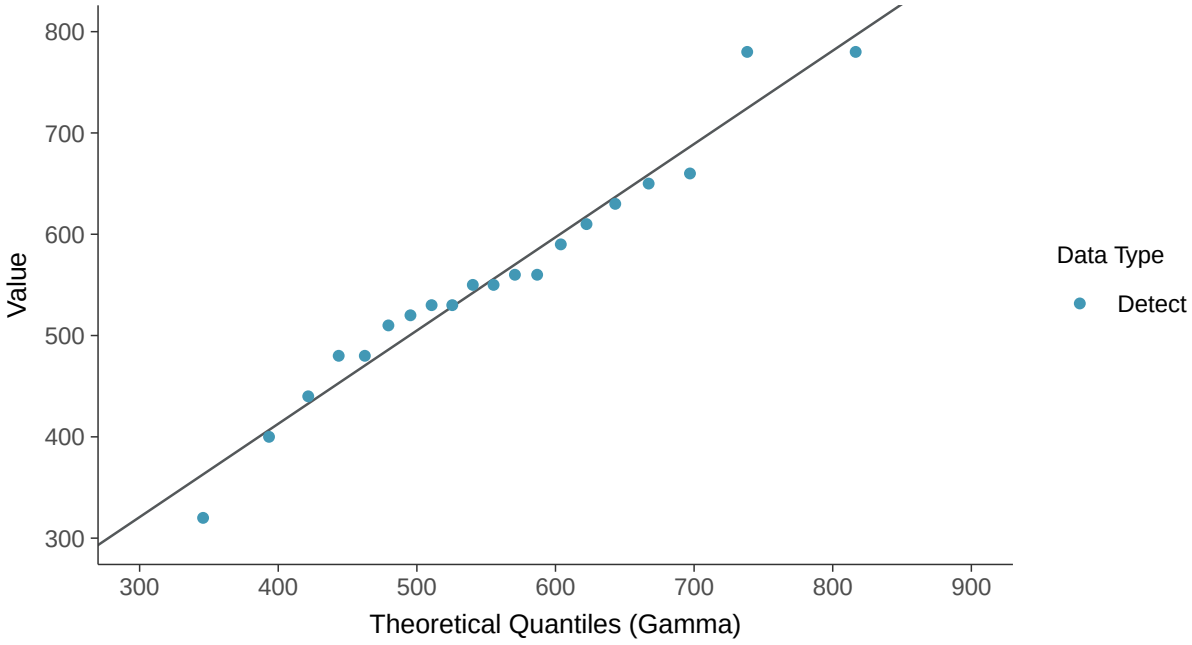
Lognormal Q-Q plot

Total Dissolved Solids, MW-08 (mg/L)



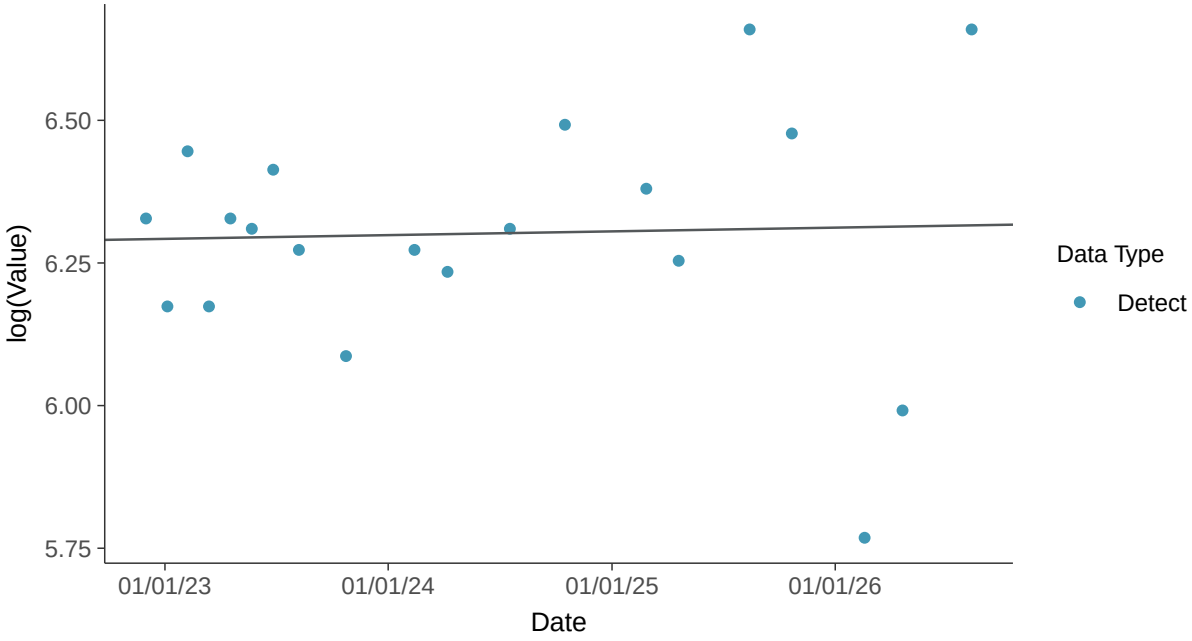
Gamma Q-Q plot

Total Dissolved Solids, MW-08 (mg/L)



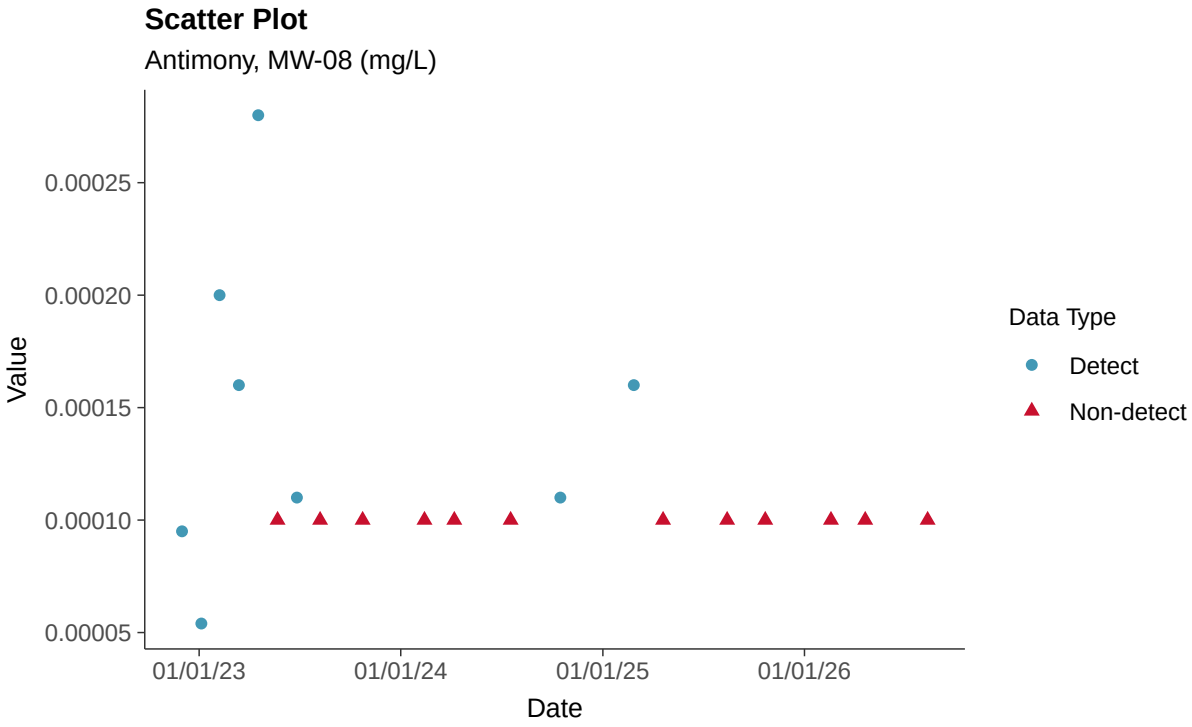
Trend Regression: Lognormal MLE

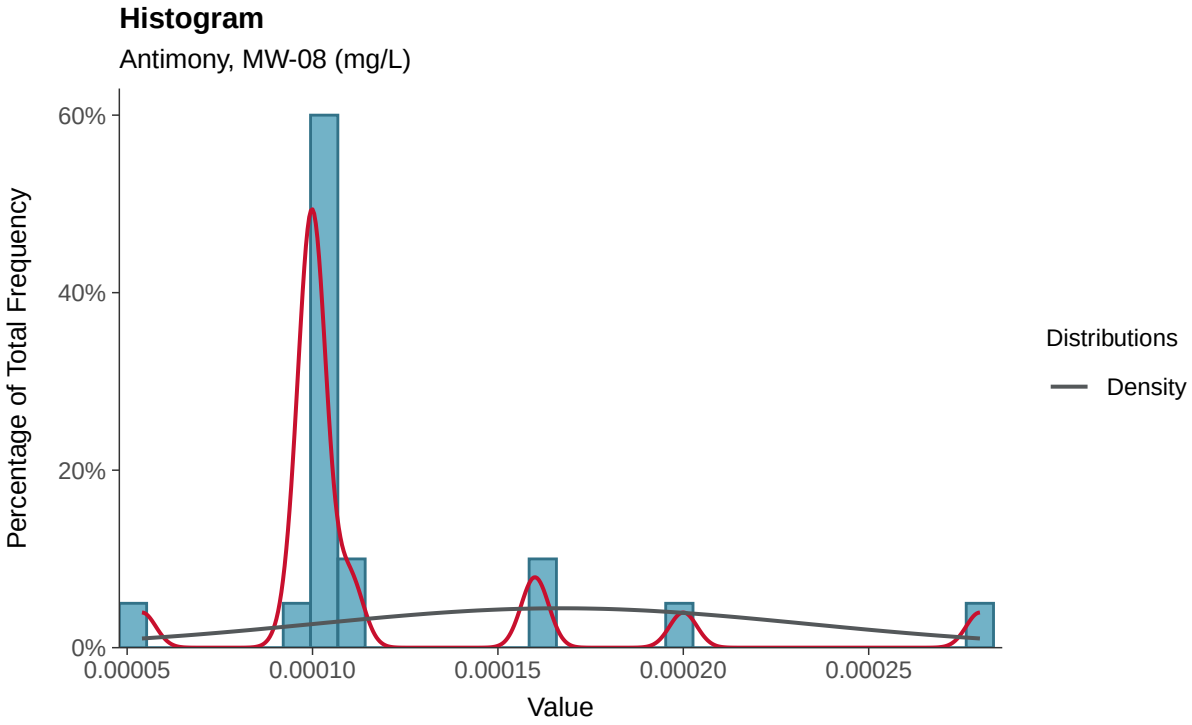
Total Dissolved Solids, MW-08 (mg/L)



Appendix IV: Antimony, MW-08

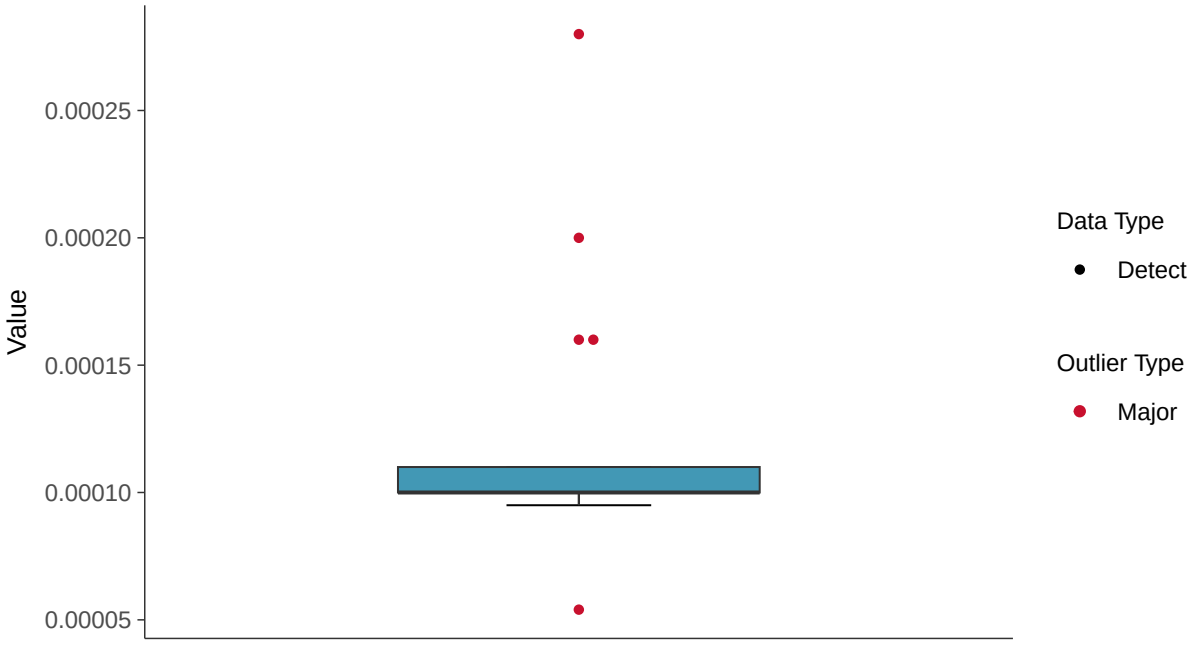
ID: 18_1_4_101





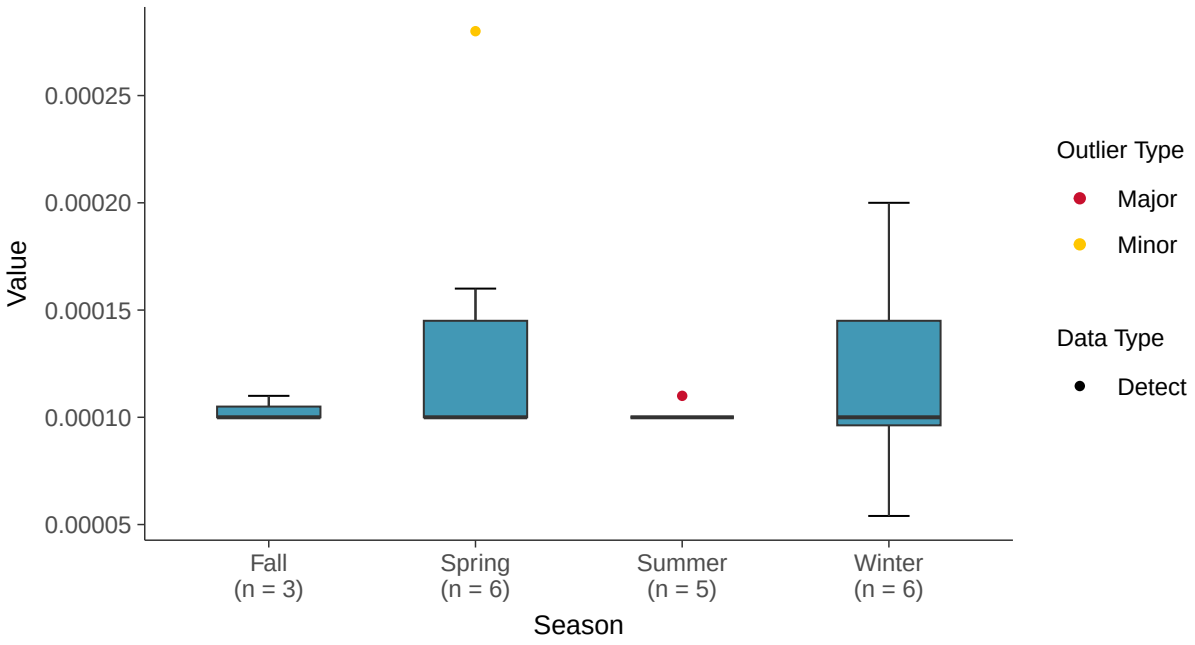
Boxplot

Antimony, MW-08 (mg/L)



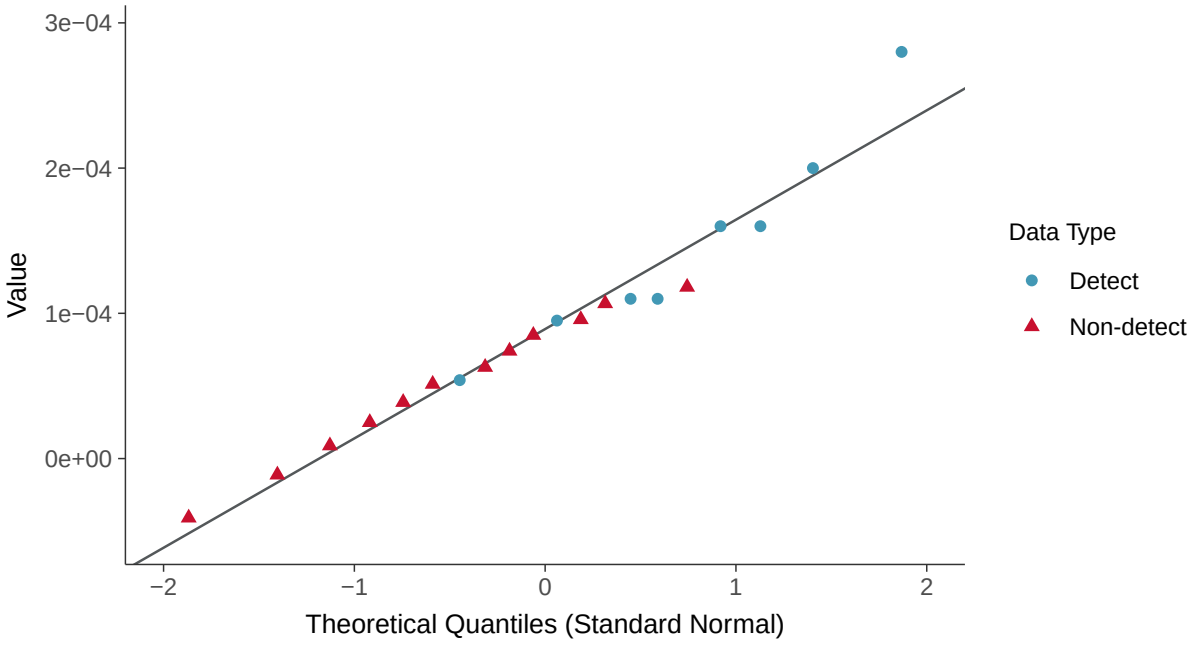
Boxplot by Season

Antimony, MW-08 (mg/L)



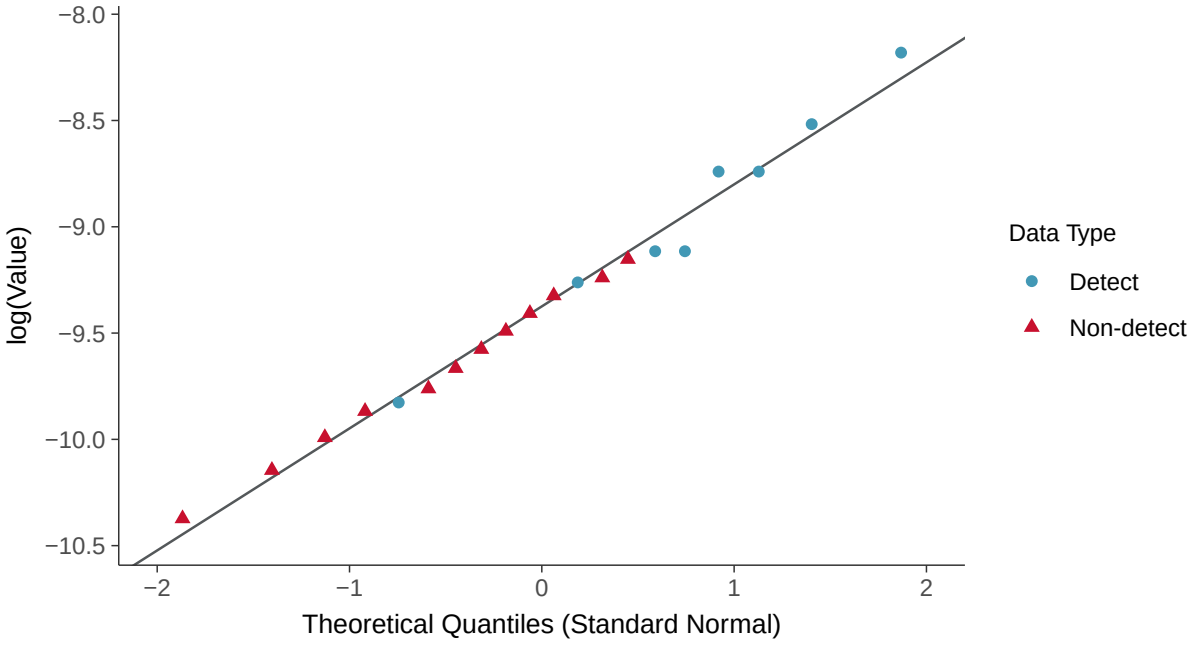
Normal Q-Q plot using ROS Imputed Estimates

Antimony, MW-08 (mg/L)



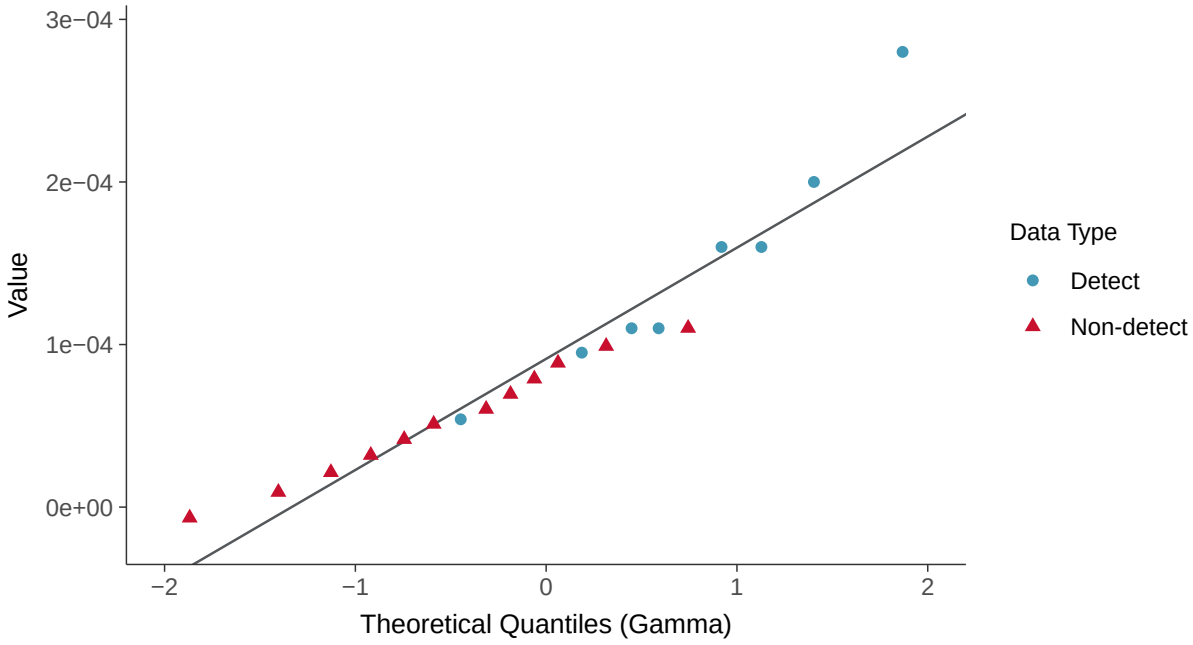
Lognormal Q-Q plot using ROS Imputed Estimates

Antimony, MW-08 (mg/L)



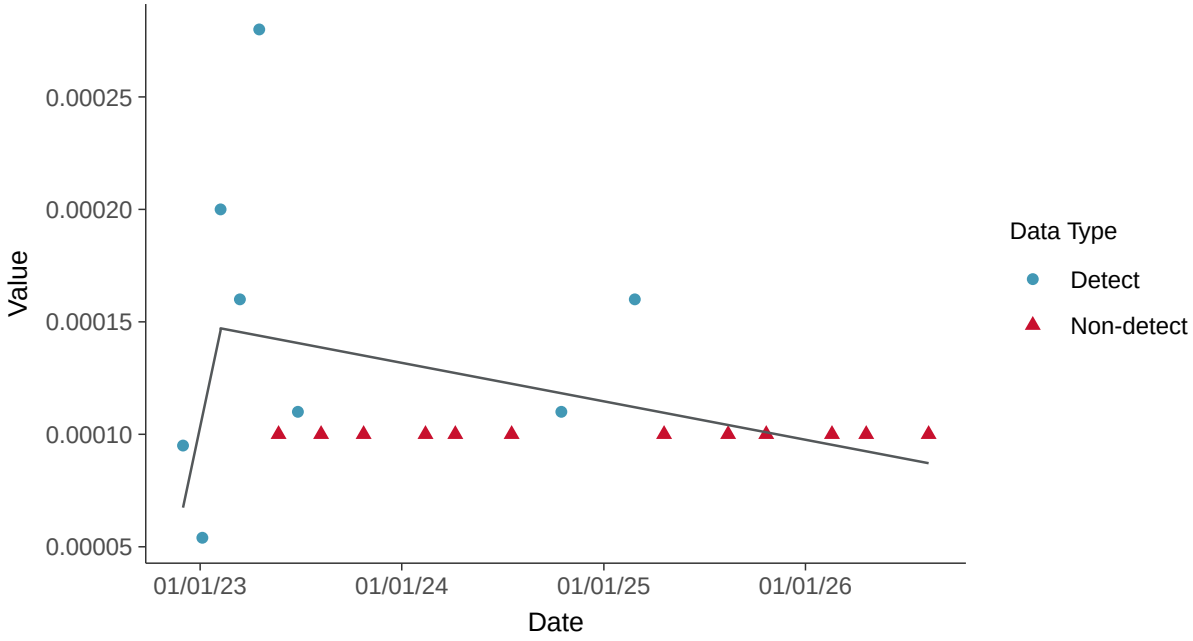
Gamma Q-Q plot using ROS Imputed Estimates

Antimony, MW-08 (mg/L)



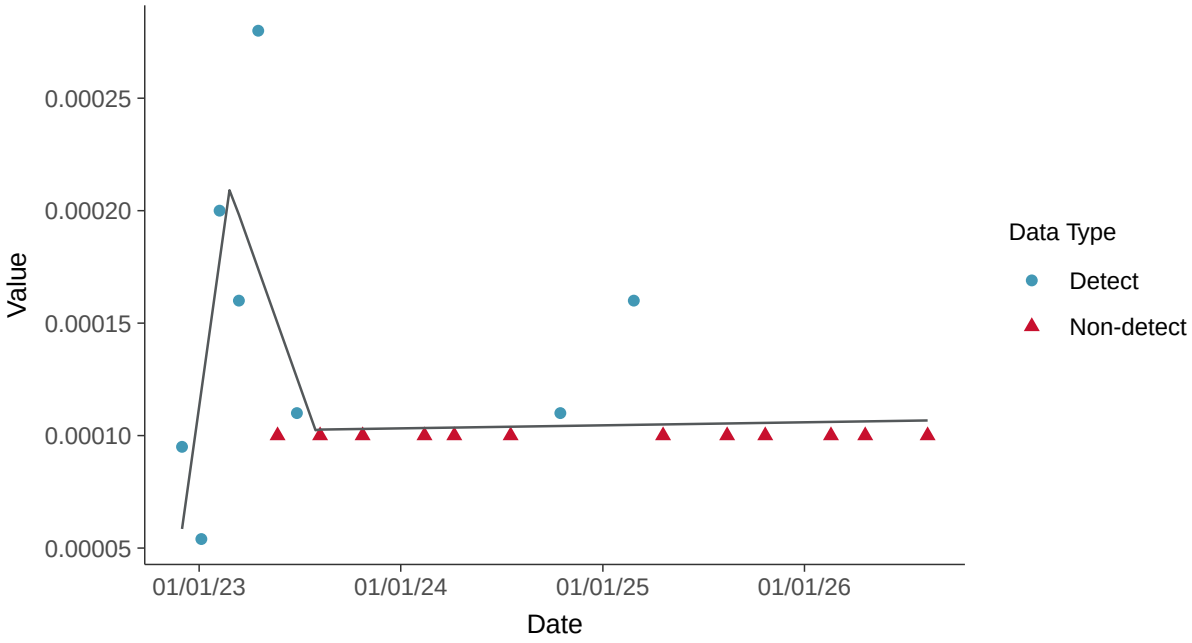
Trend Regression: Piecewise Linear-Linear

Antimony, MW-08 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Antimony, MW-08 (mg/L)

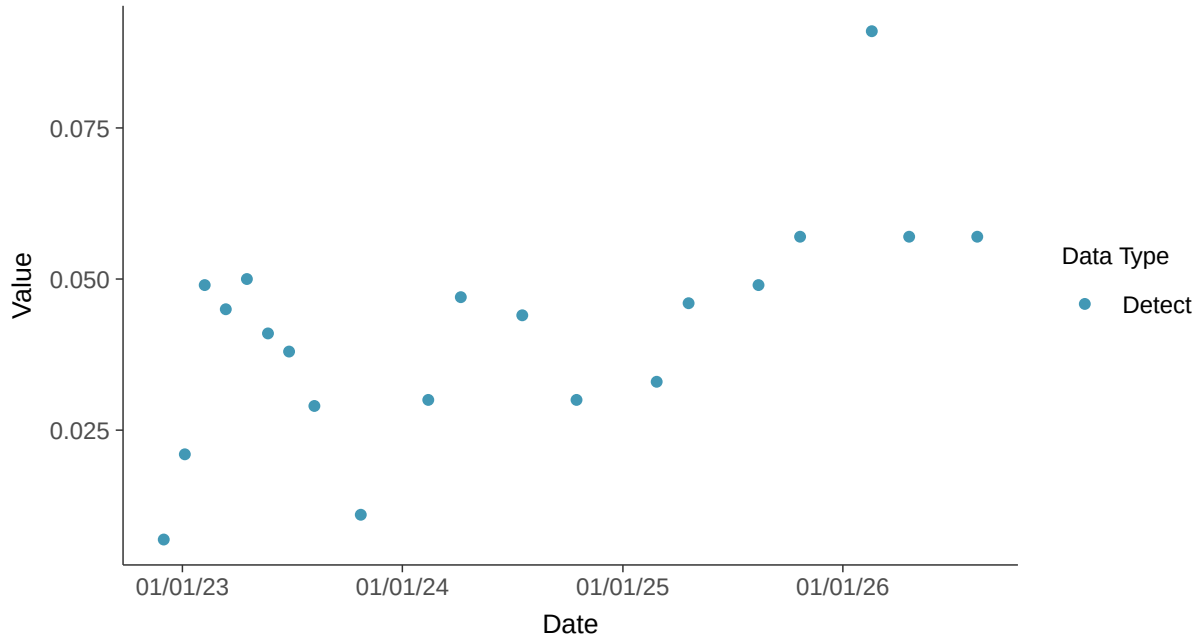


Appendix IV: Arsenic, MW-08

ID: 18_1_4_102

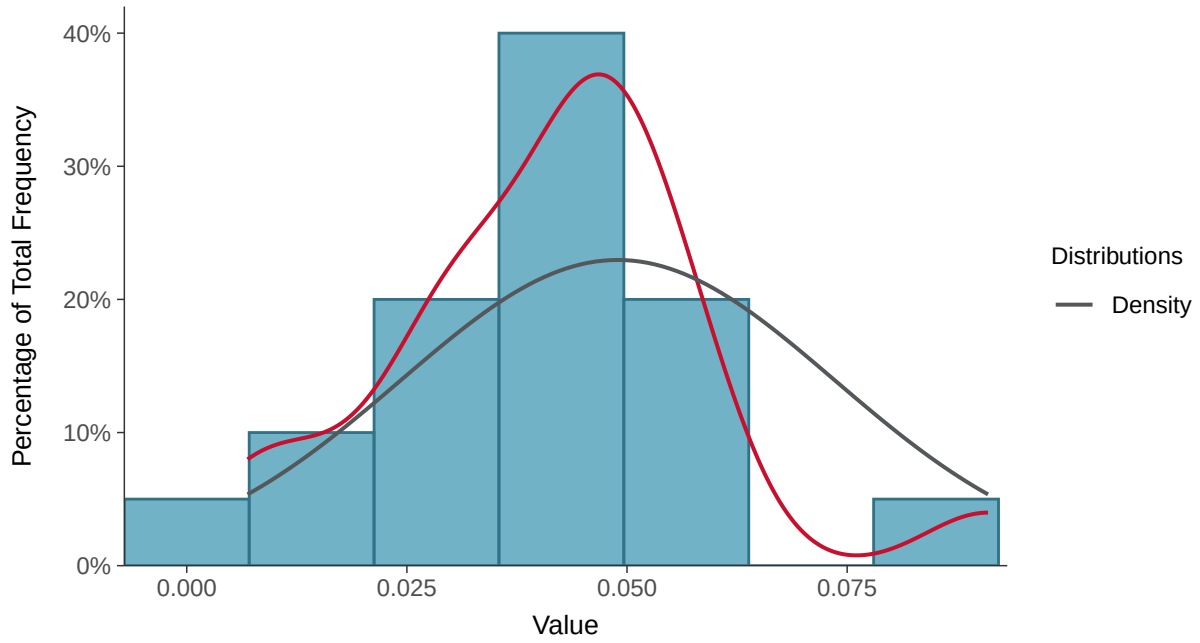
Scatter Plot

Arsenic, MW-08 (mg/L)



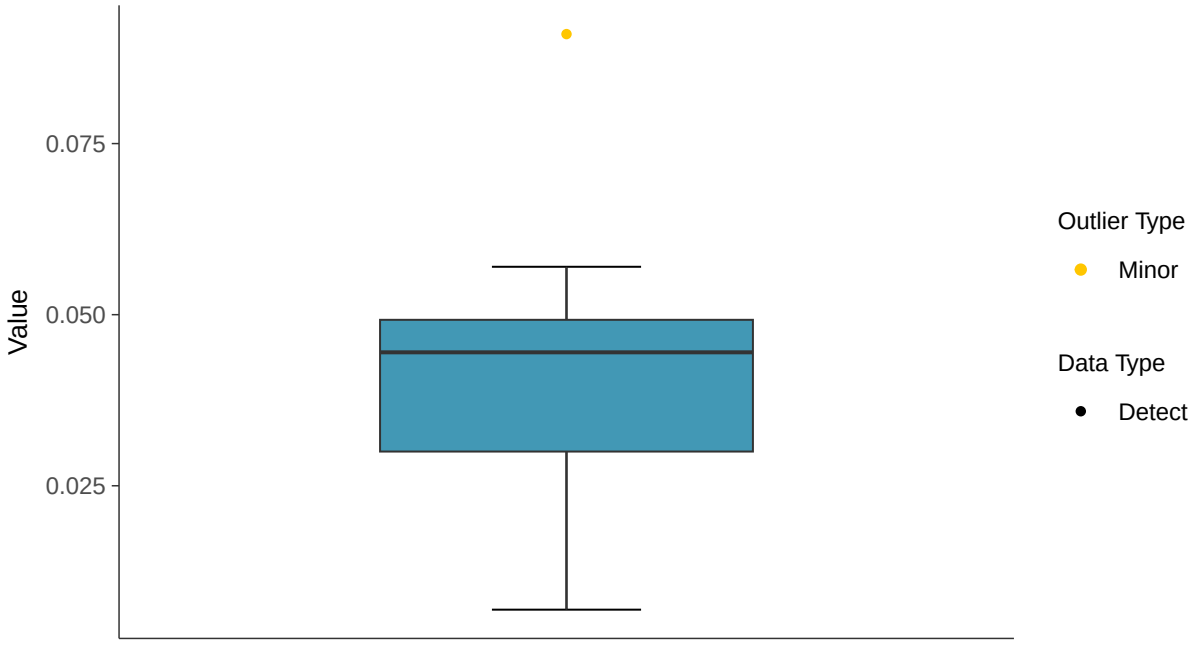
Histogram

Arsenic, MW-08 (mg/L)



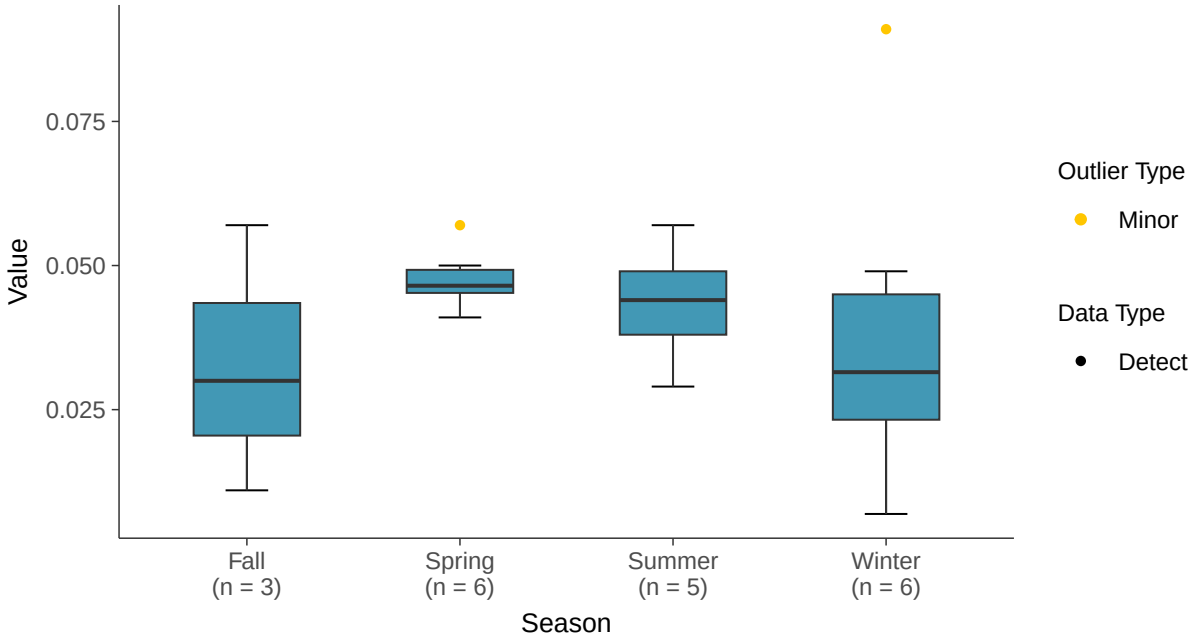
Boxplot

Arsenic, MW-08 (mg/L)



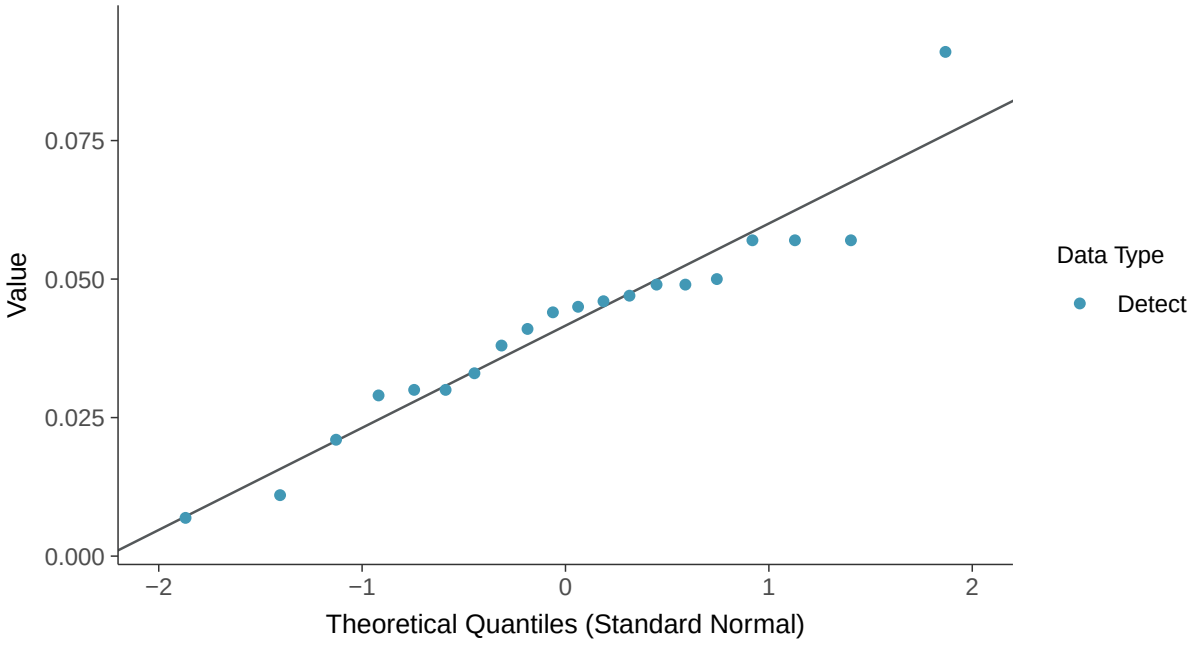
Boxplot by Season

Arsenic, MW-08 (mg/L)



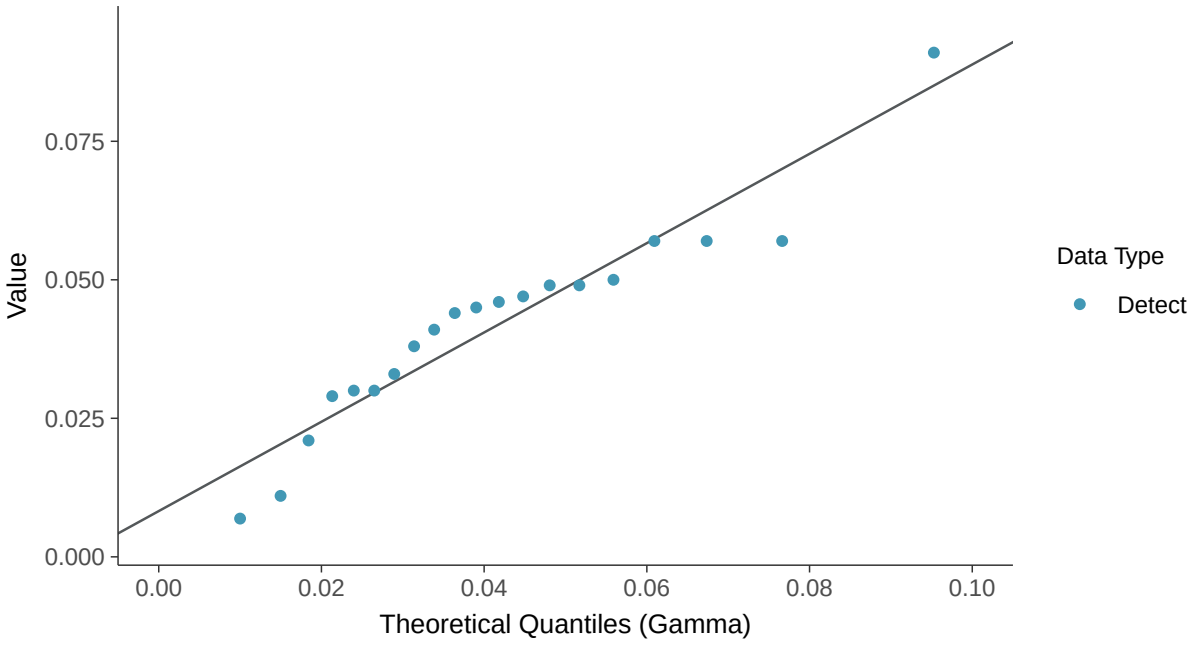
Normal Q-Q plot

Arsenic, MW-08 (mg/L)



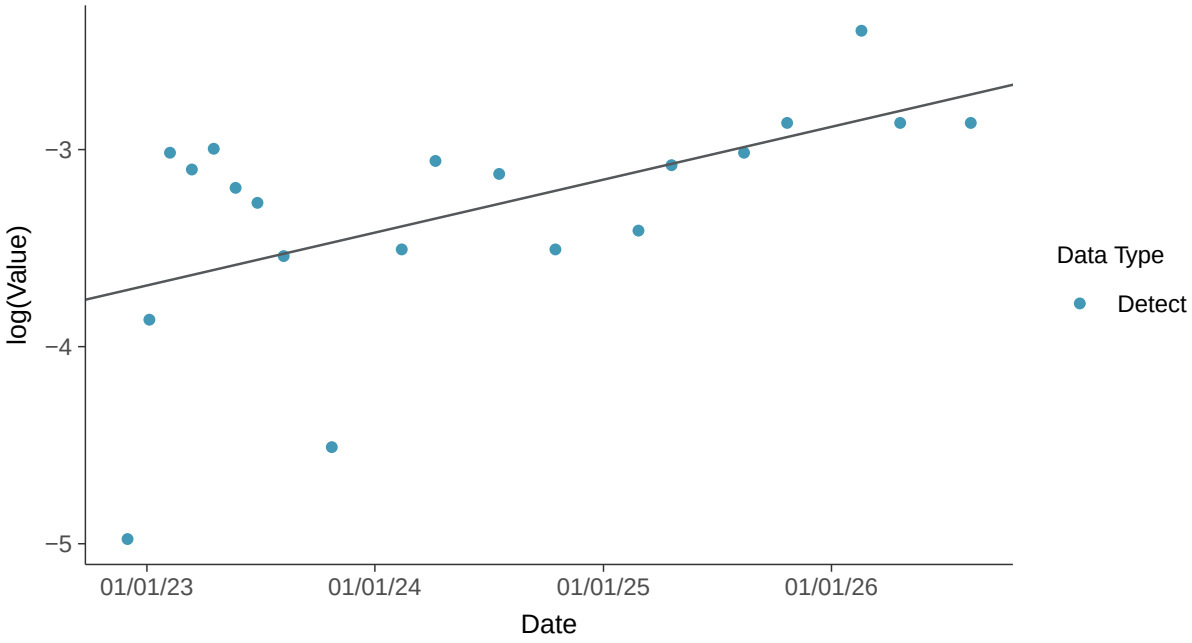
Gamma Q-Q plot

Arsenic, MW-08 (mg/L)



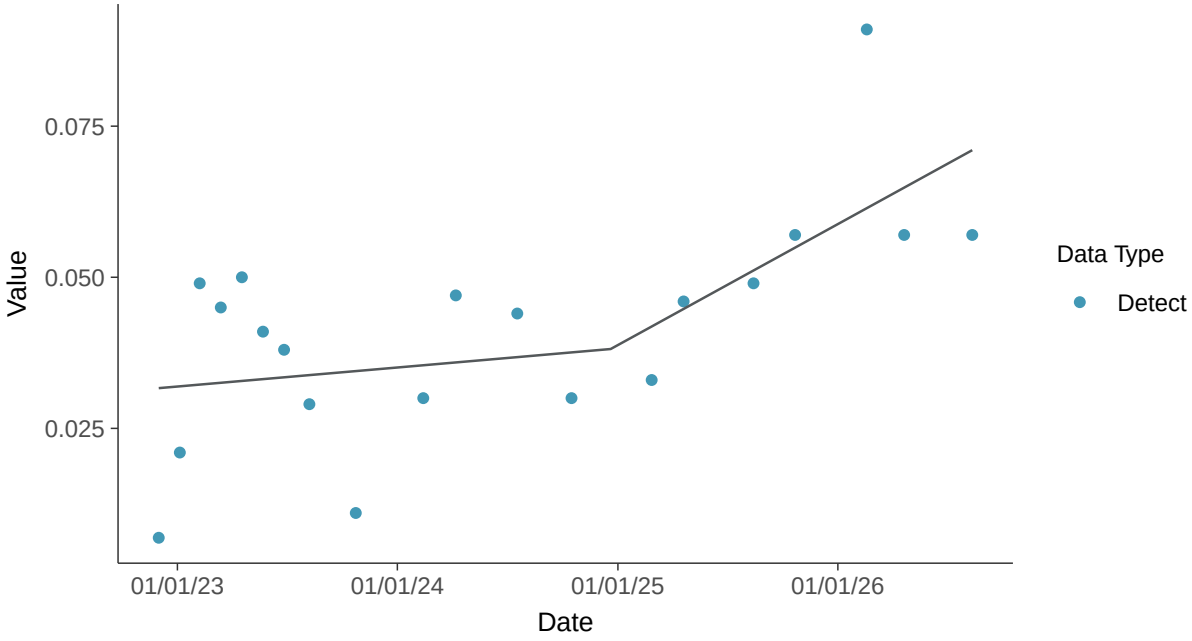
Trend Regression: Lognormal MLE

Arsenic, MW-08 (mg/L)



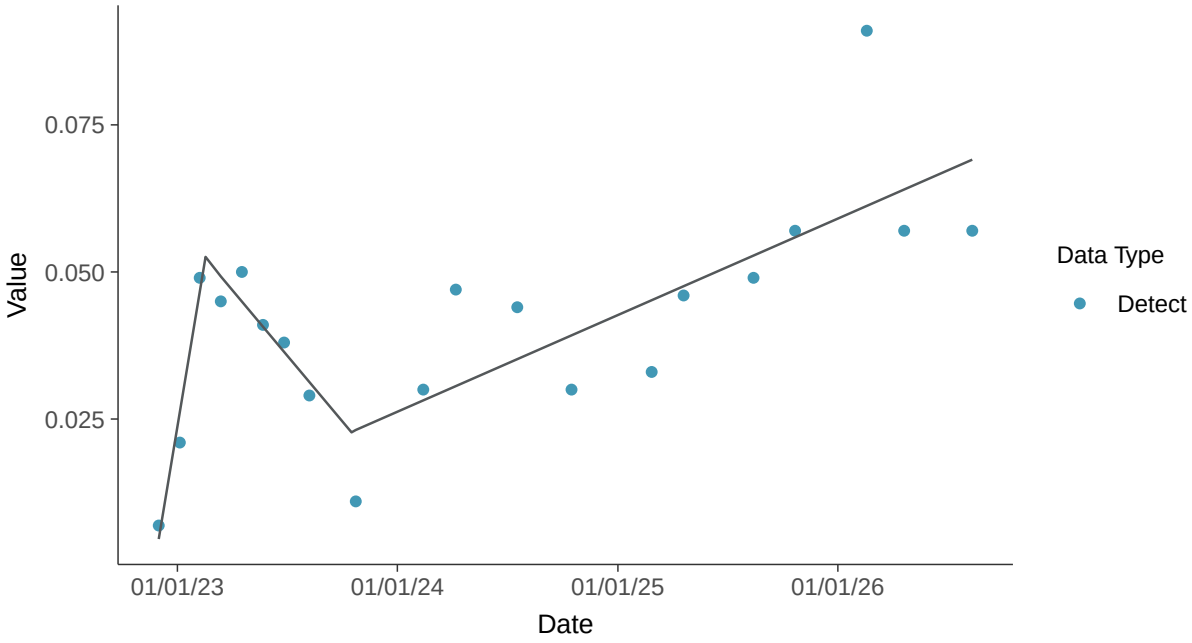
Trend Regression: Piecewise Linear-Linear

Arsenic, MW-08 (mg/L)



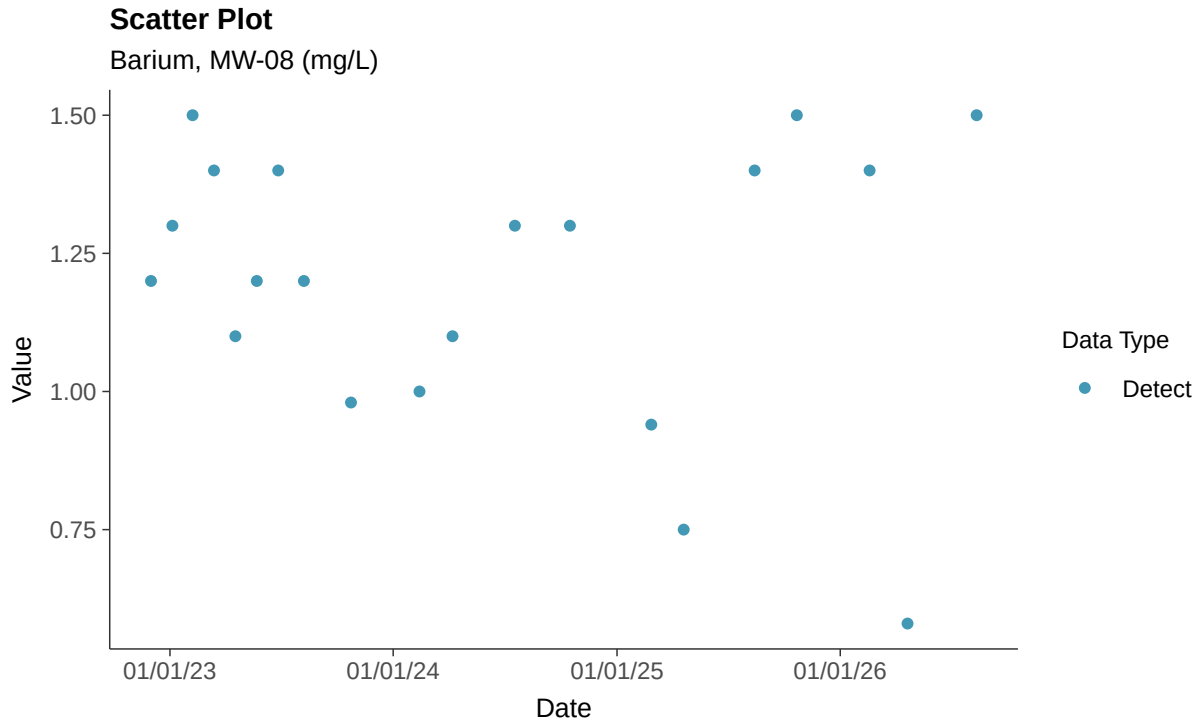
Trend Regression: Piecewise Linear-Linear-Linear

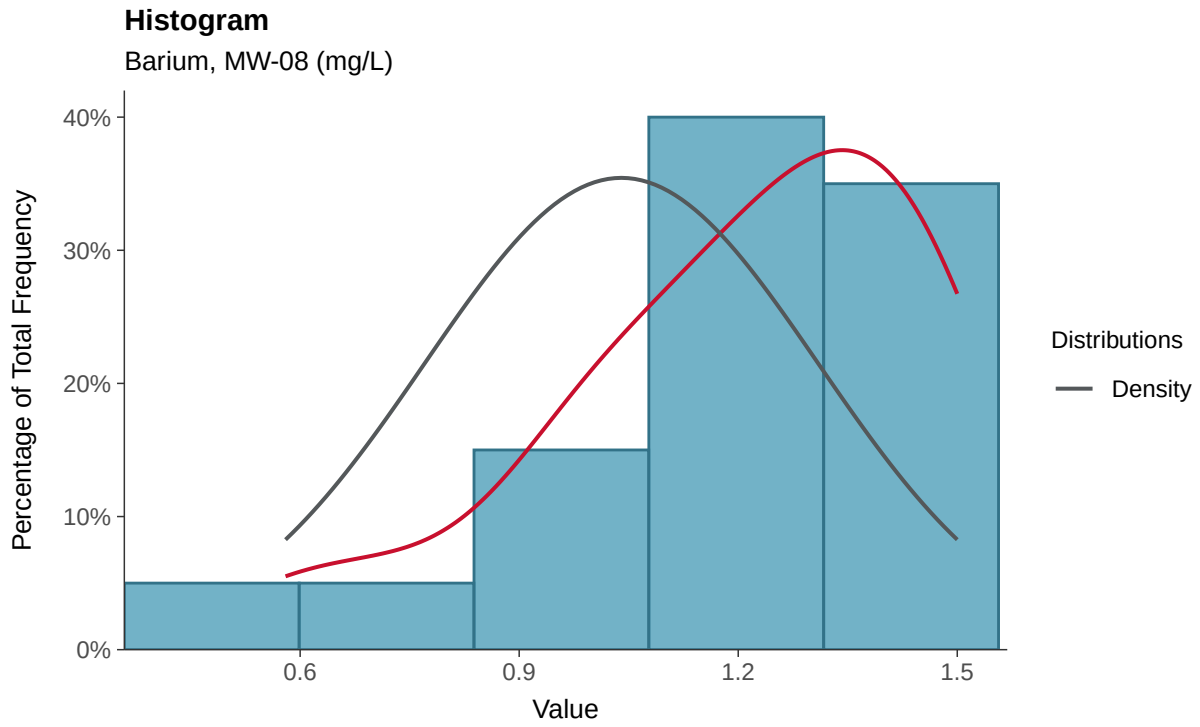
Arsenic, MW-08 (mg/L)



Appendix IV: Barium, MW-08

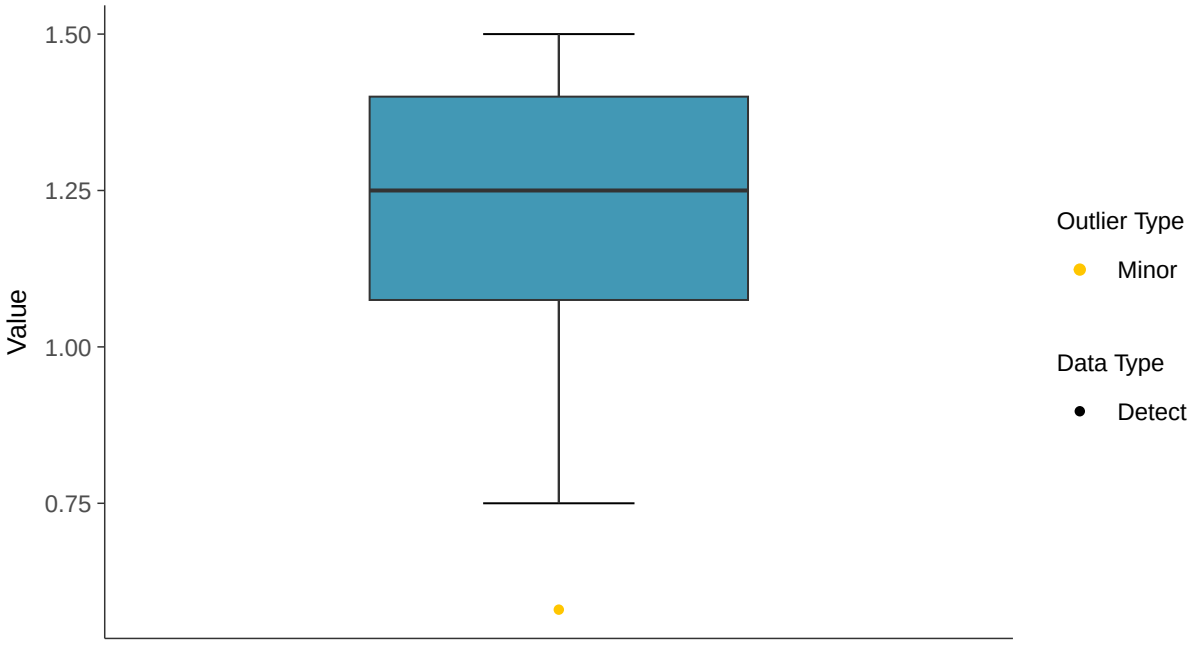
ID: 18_1_4_103





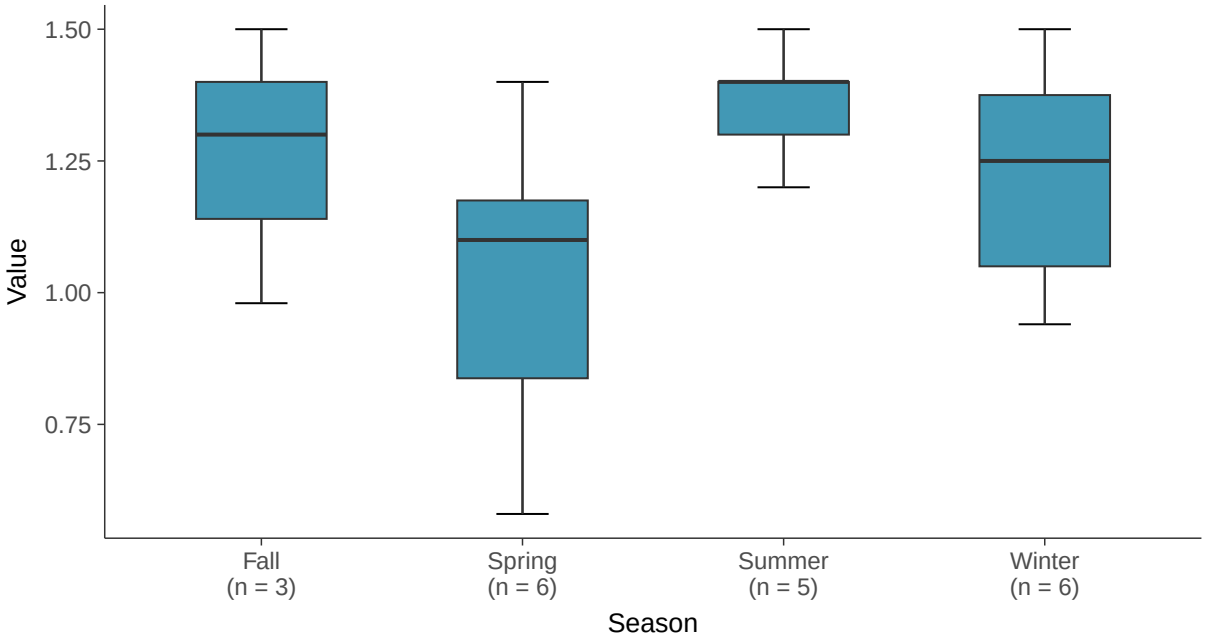
Boxplot

Barium, MW-08 (mg/L)



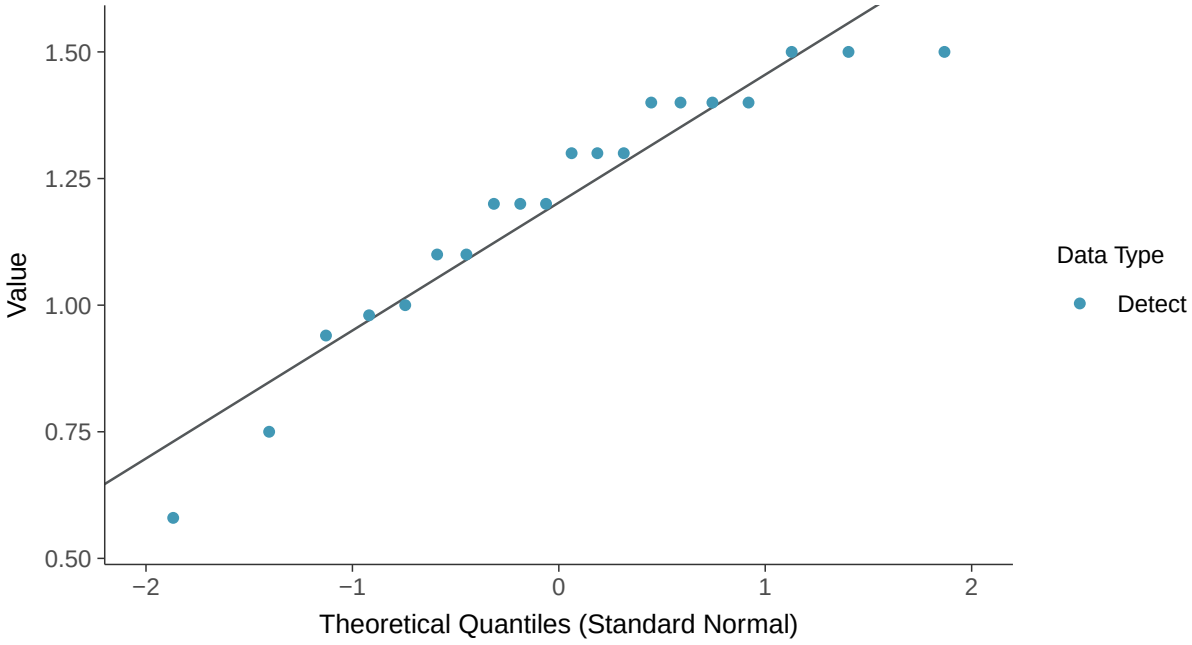
Boxplot by Season

Barium, MW-08 (mg/L)



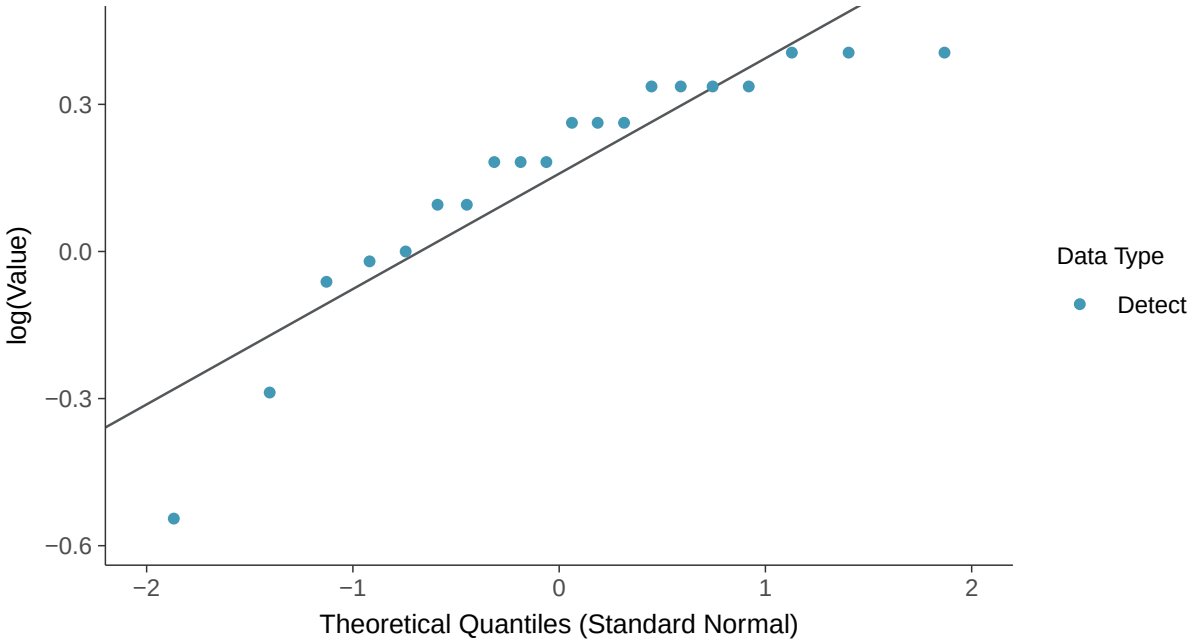
Normal Q-Q plot

Barium, MW-08 (mg/L)



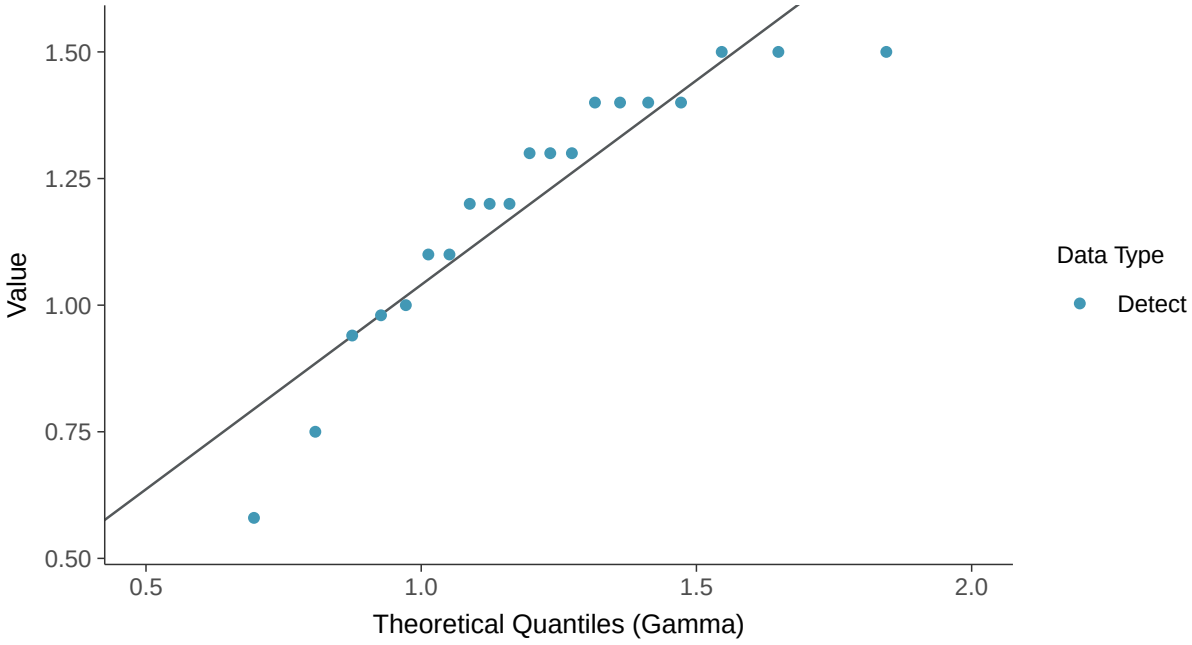
Lognormal Q-Q plot

Barium, MW-08 (mg/L)



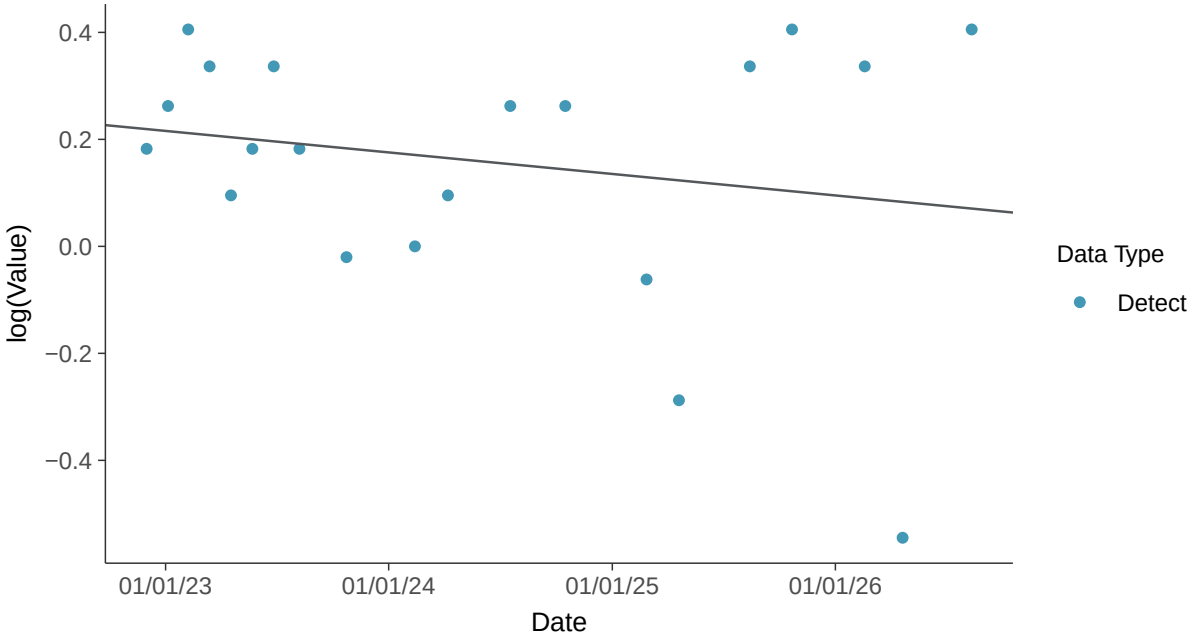
Gamma Q-Q plot

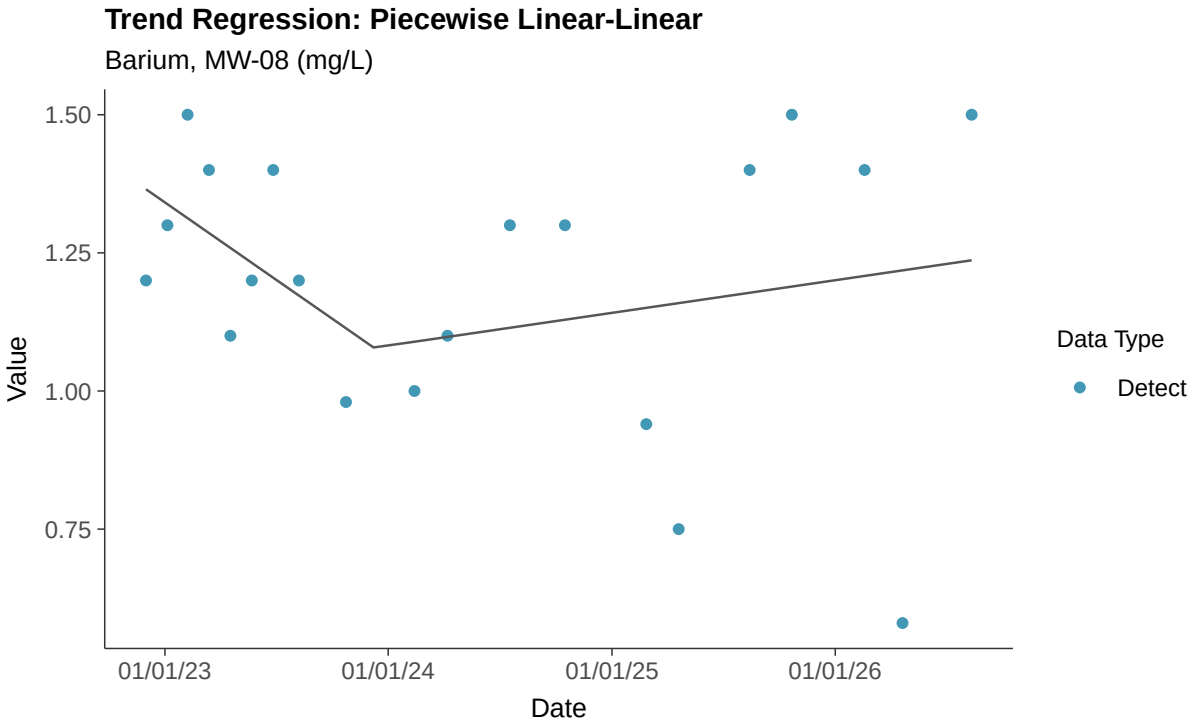
Barium, MW-08 (mg/L)



Trend Regression: Lognormal MLE

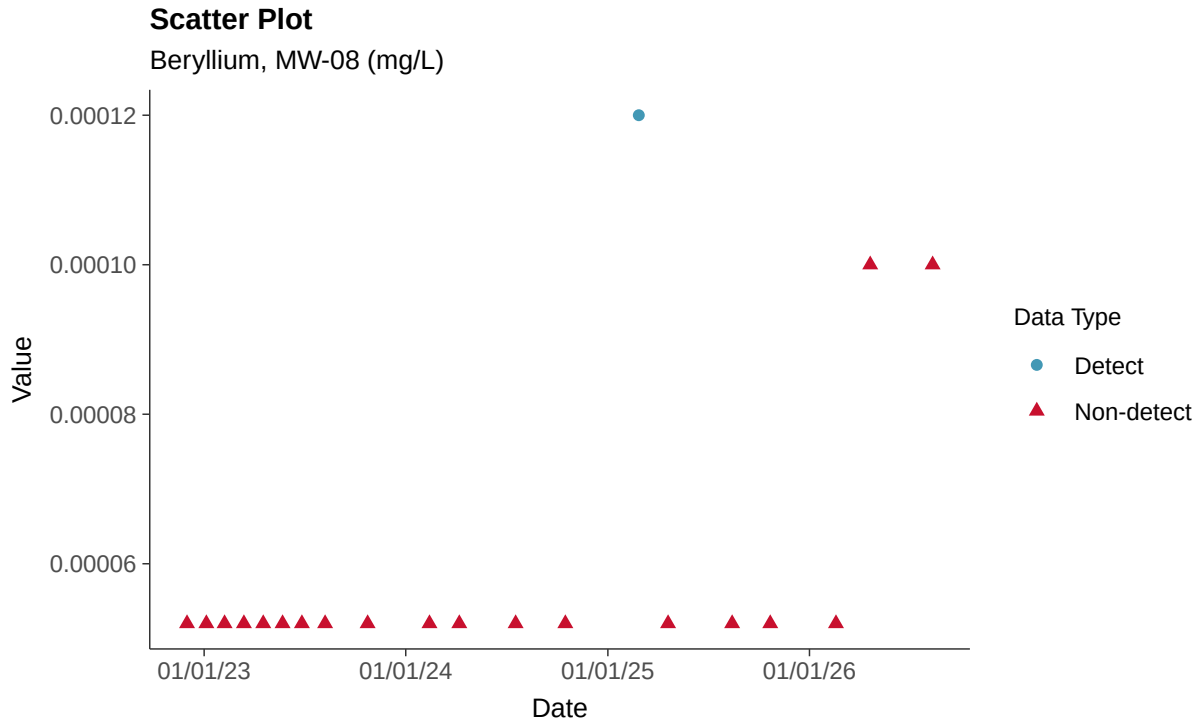
Barium, MW-08 (mg/L)

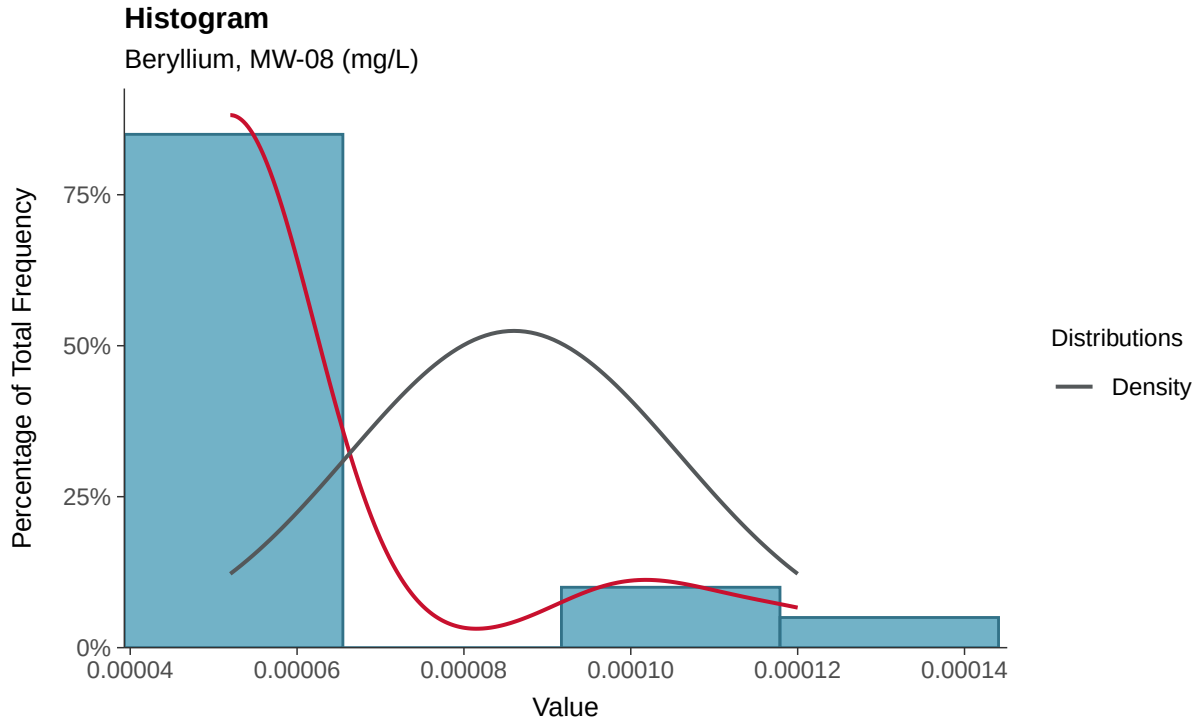



Trend Regression: Piecewise Linear-Linear
Barium, MW-08 (mg/L)
Value
1.50
1.25
1.00
0.75
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect

Appendix IV: Beryllium, MW-08

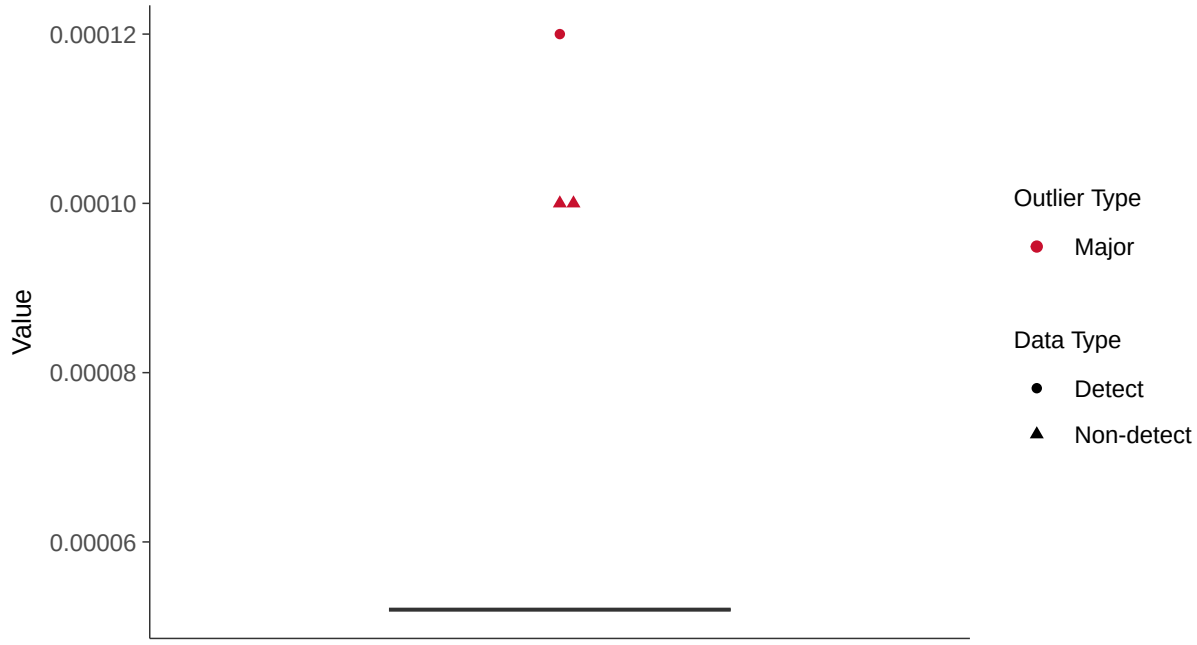
ID: 18_1_4_104





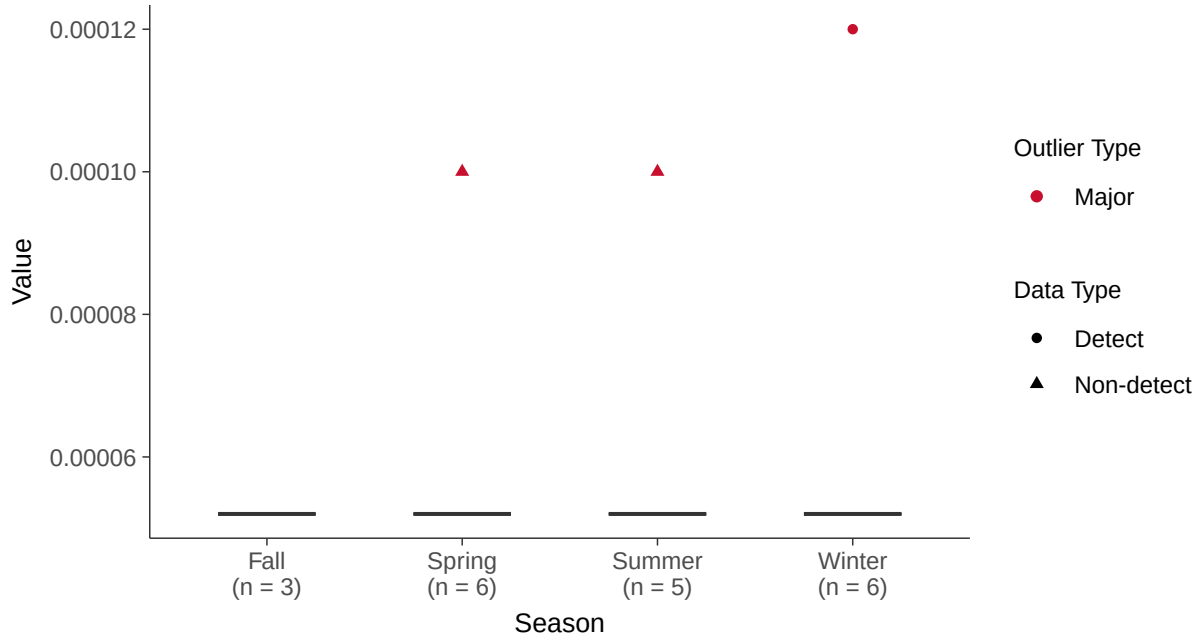
Boxplot

Beryllium, MW-08 (mg/L)



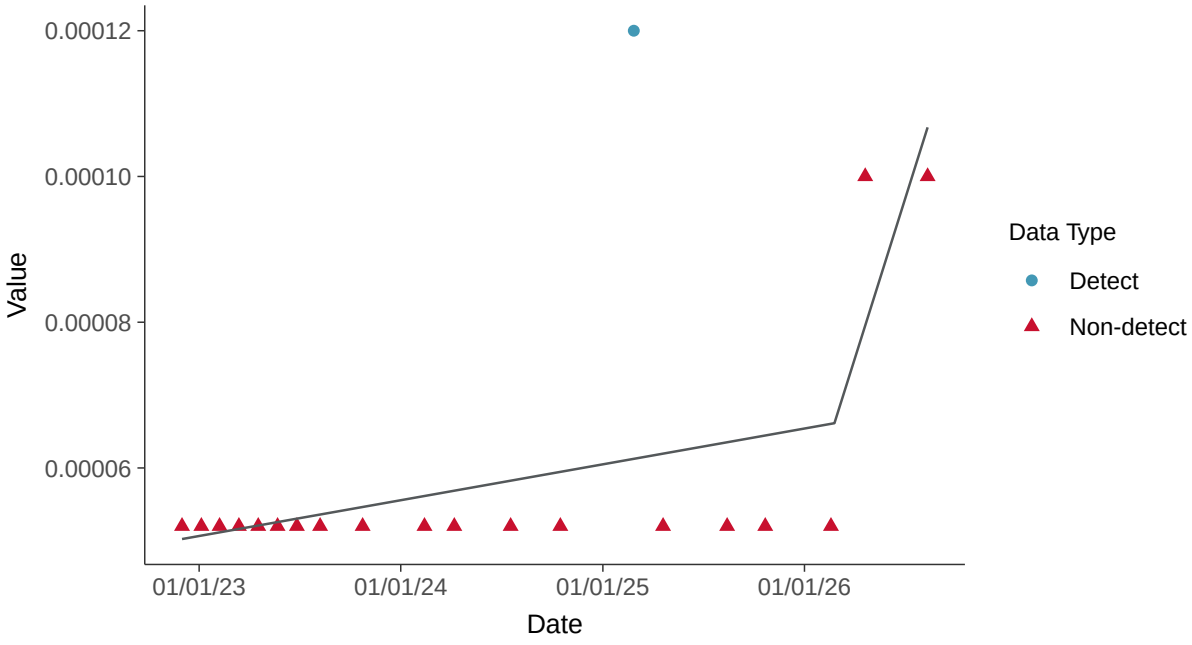
Boxplot by Season

Beryllium, MW-08 (mg/L)



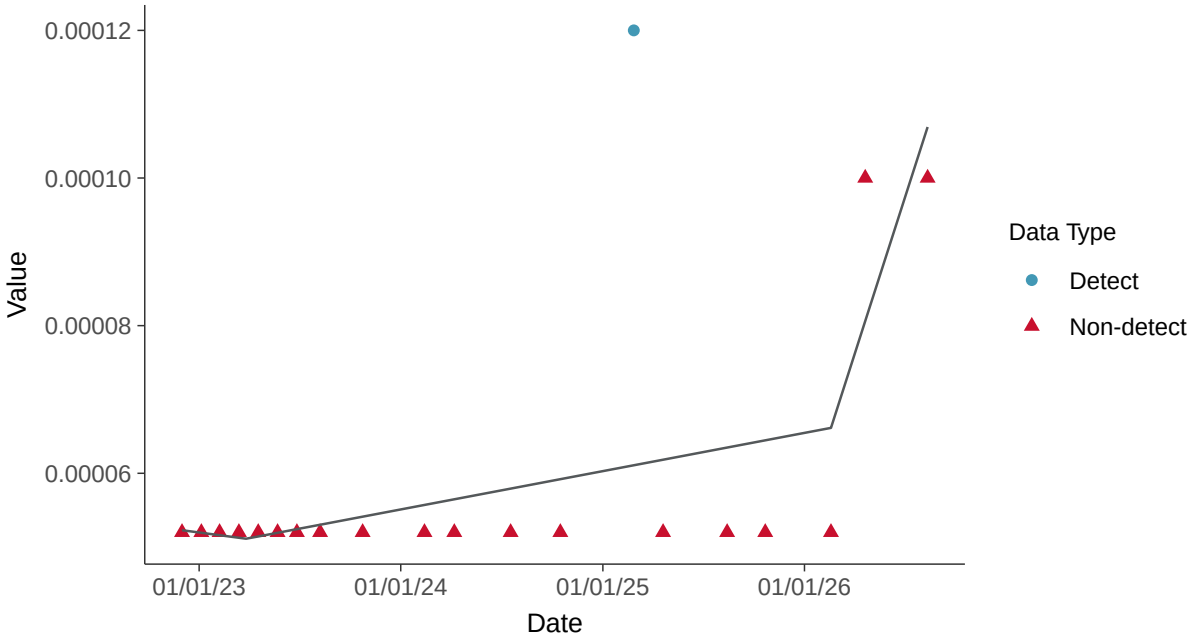
Trend Regression: Piecewise Linear-Linear

Beryllium, MW-08 (mg/L)



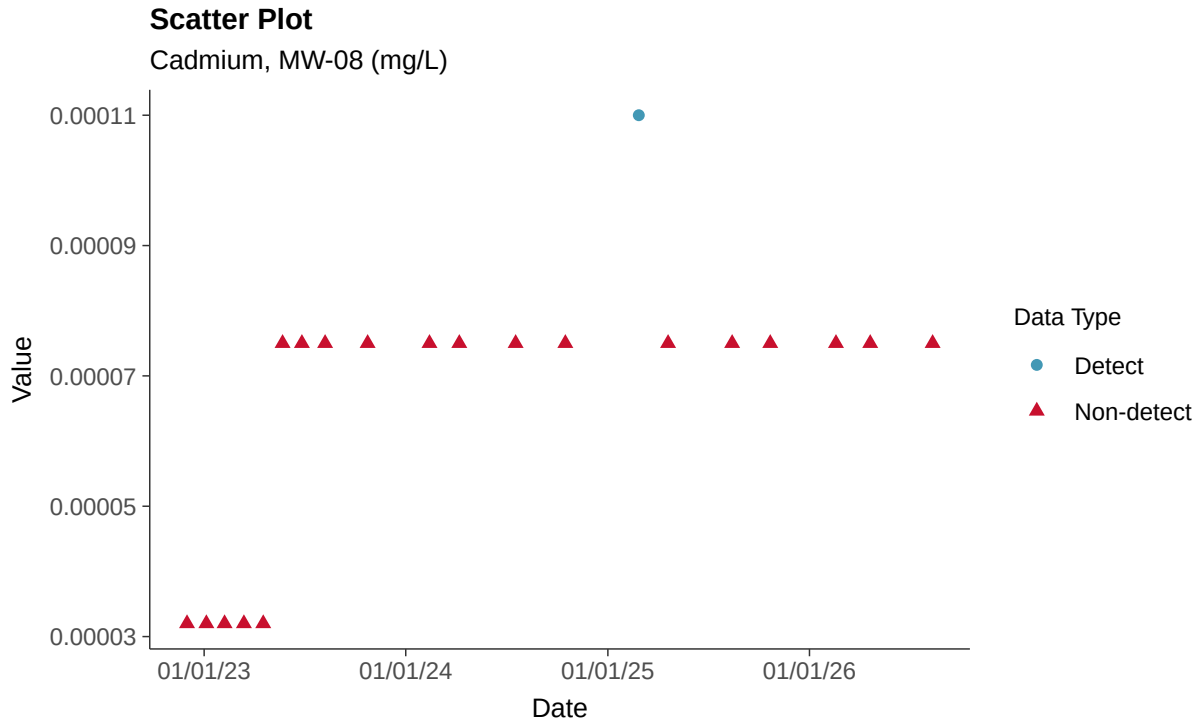
Trend Regression: Piecewise Linear-Linear-Linear

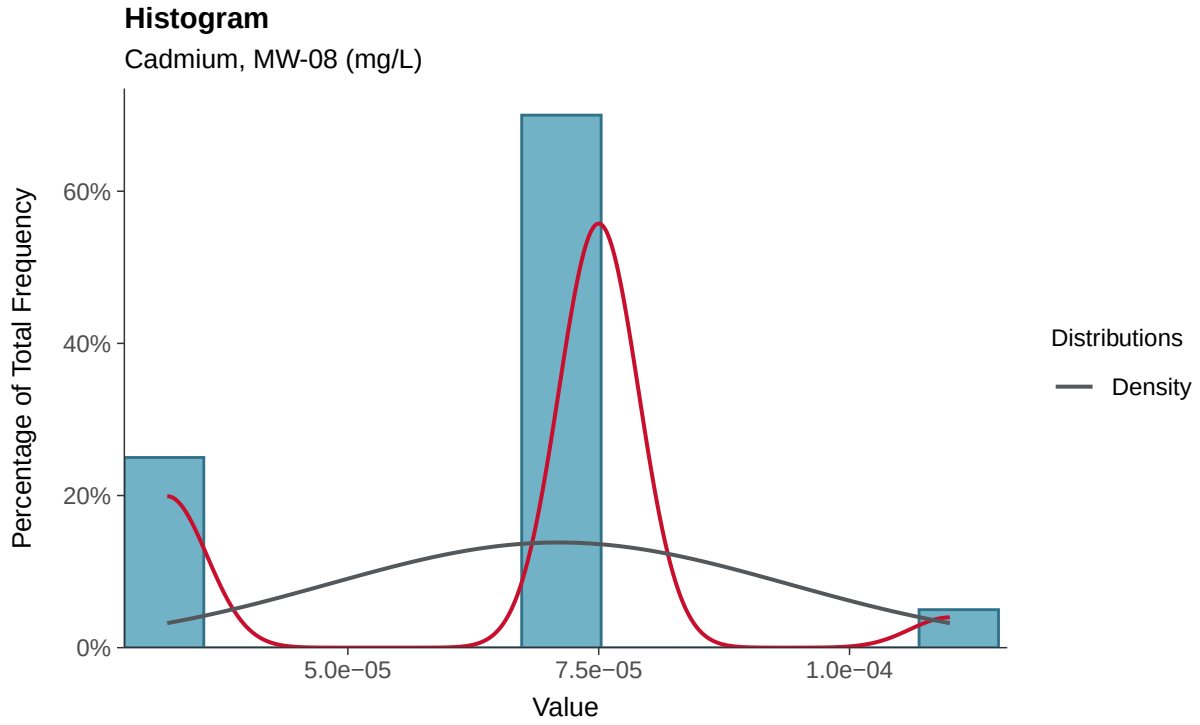
Beryllium, MW-08 (mg/L)



Appendix IV: Cadmium, MW-08

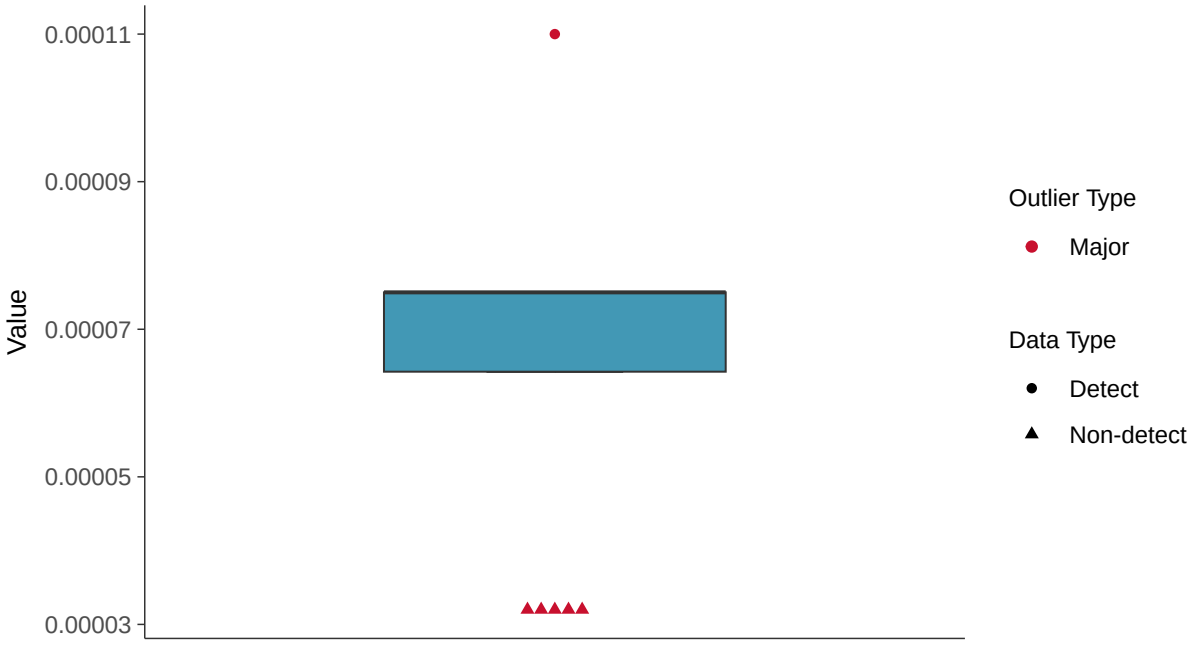
ID: 18_1_4_106





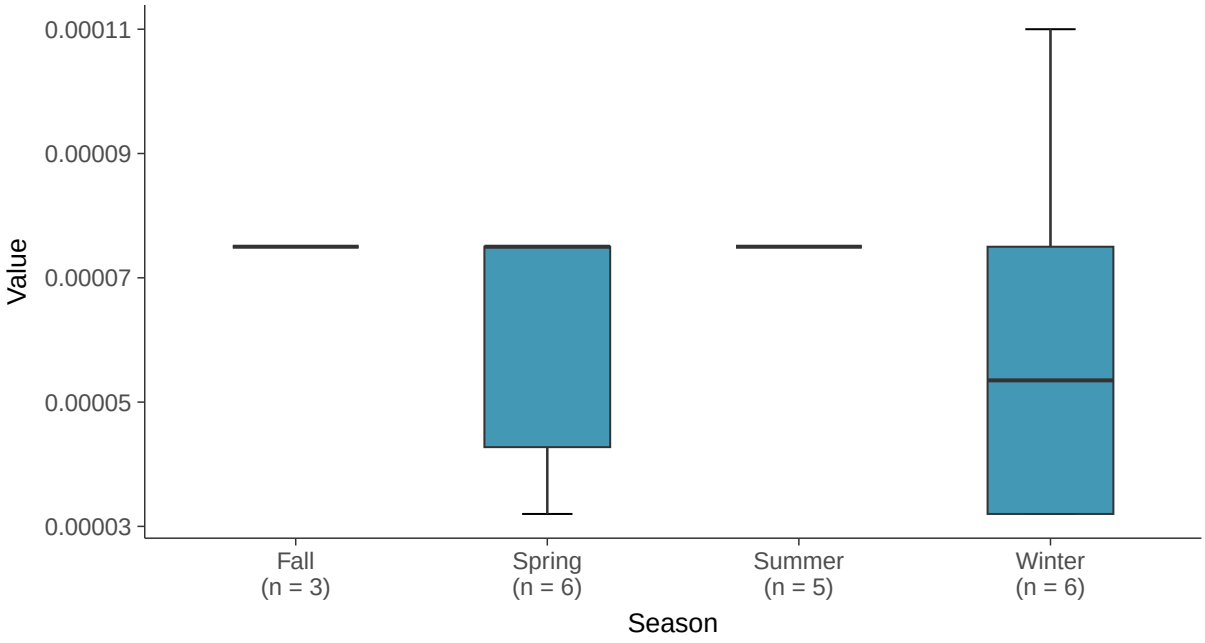
Boxplot

Cadmium, MW-08 (mg/L)



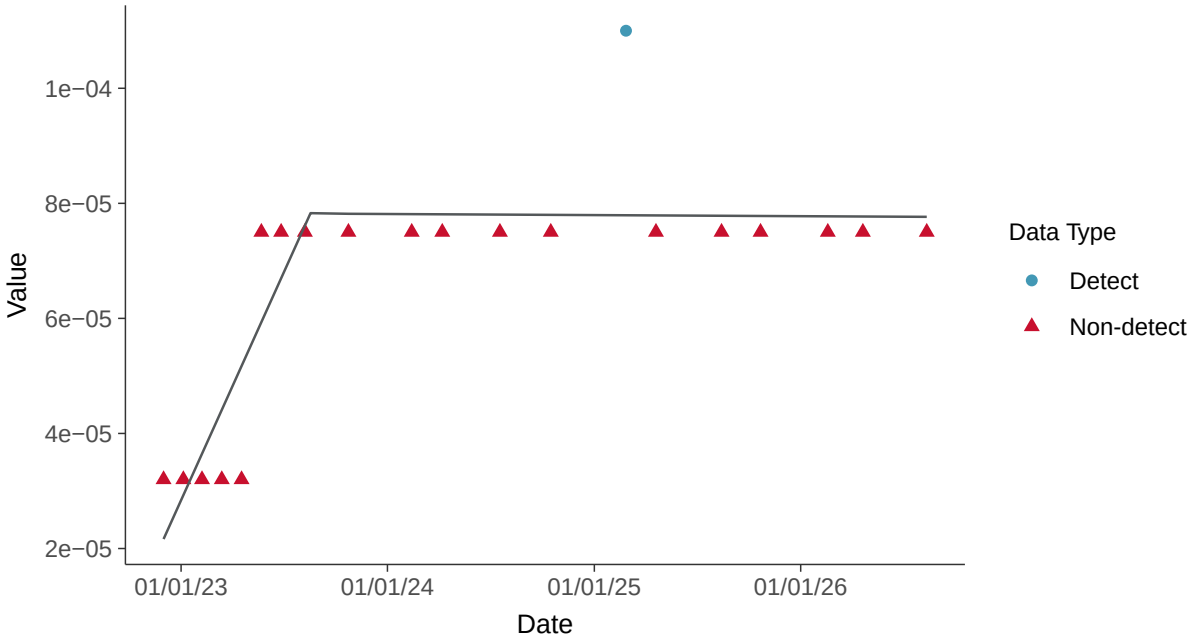
Boxplot by Season

Cadmium, MW-08 (mg/L)



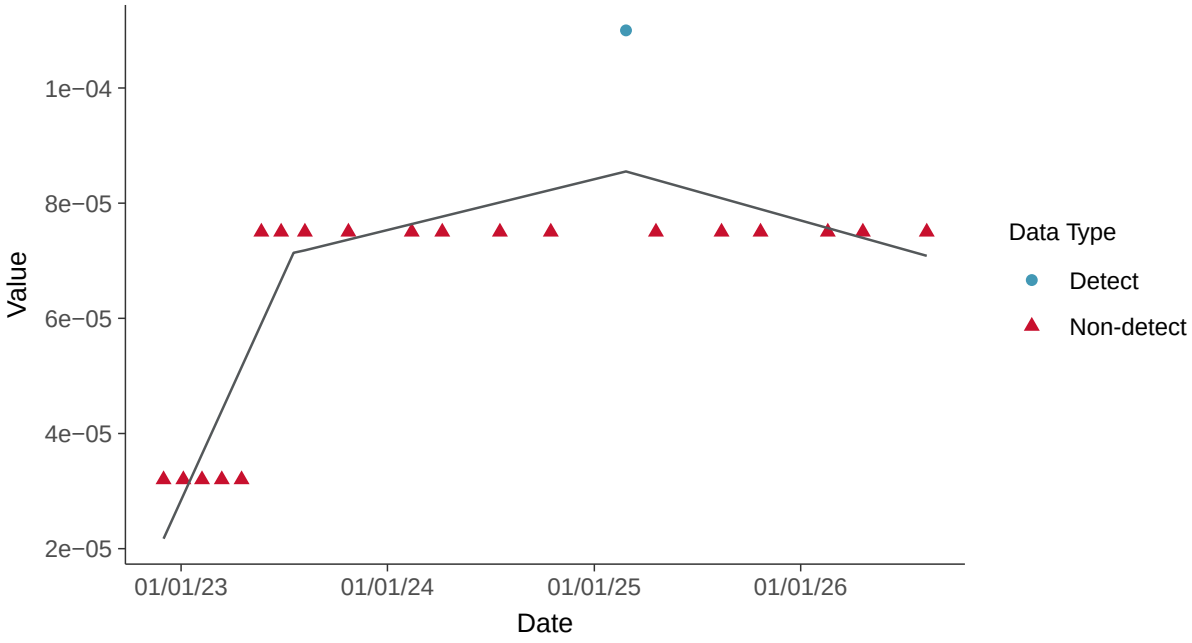
Trend Regression: Piecewise Linear-Linear

Cadmium, MW-08 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Cadmium, MW-08 (mg/L)

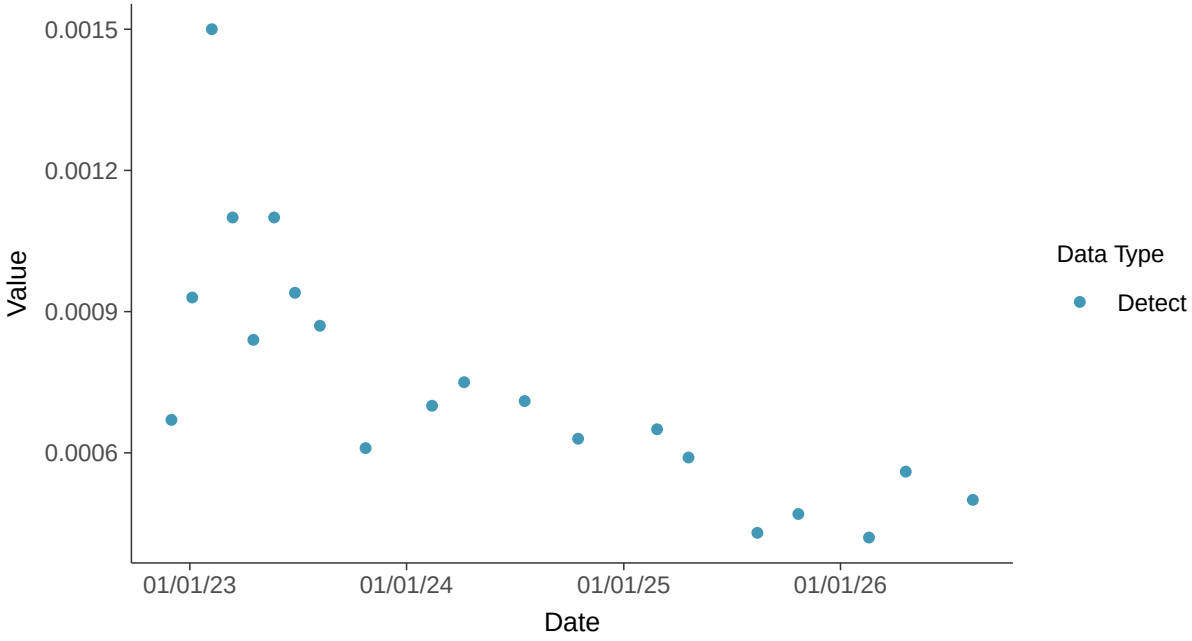


Appendix IV: Chromium, Total, MW-08

ID: 18_1_4_109

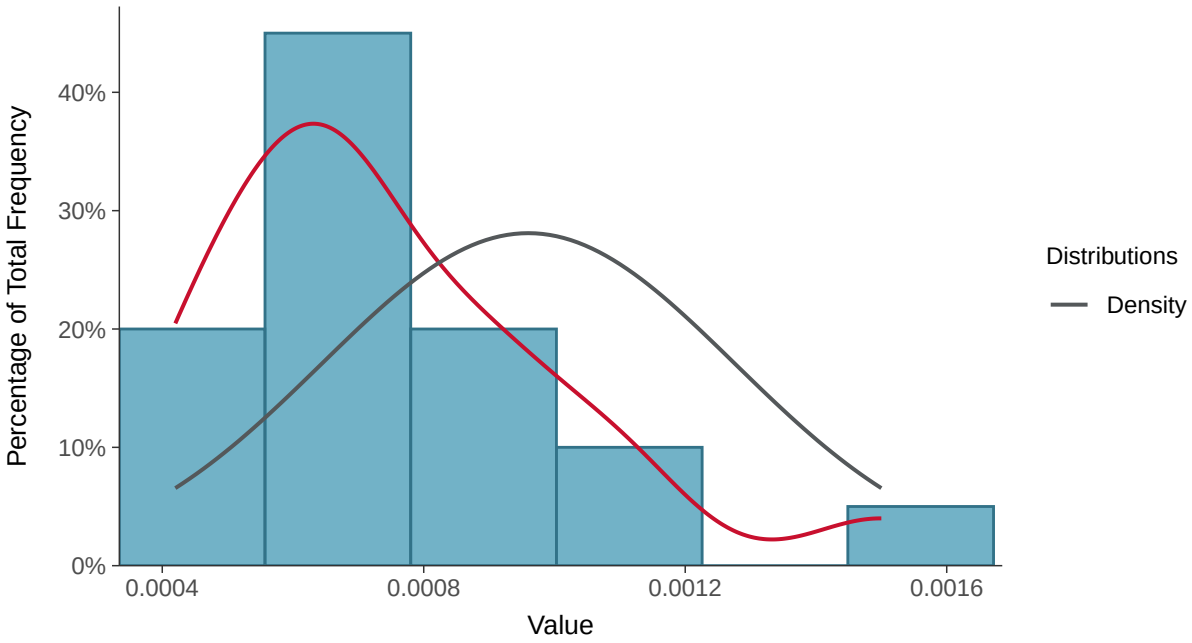
Scatter Plot

Chromium, Total, MW-08 (mg/L)



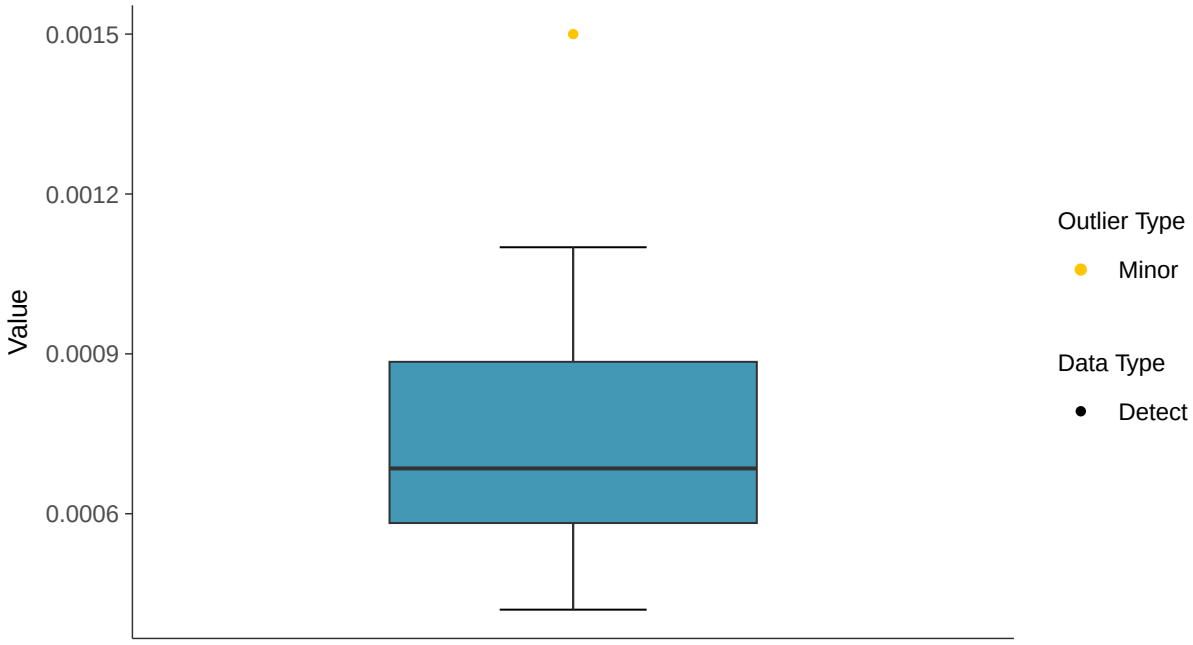
Histogram

Chromium, Total, MW-08 (mg/L)



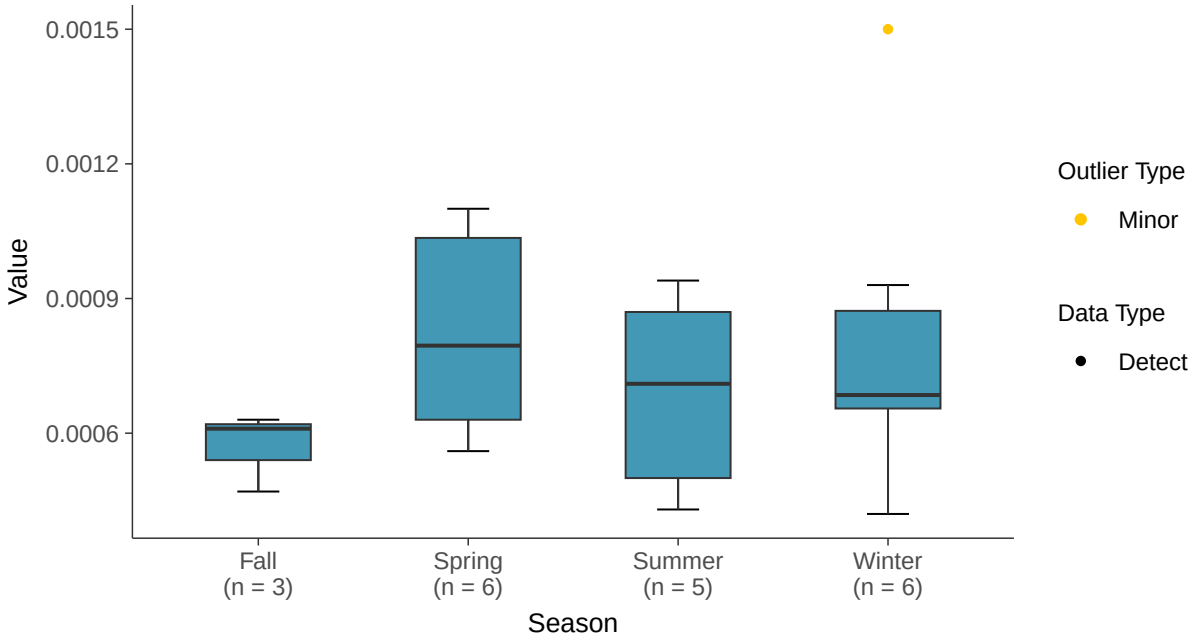
Boxplot

Chromium, Total, MW-08 (mg/L)



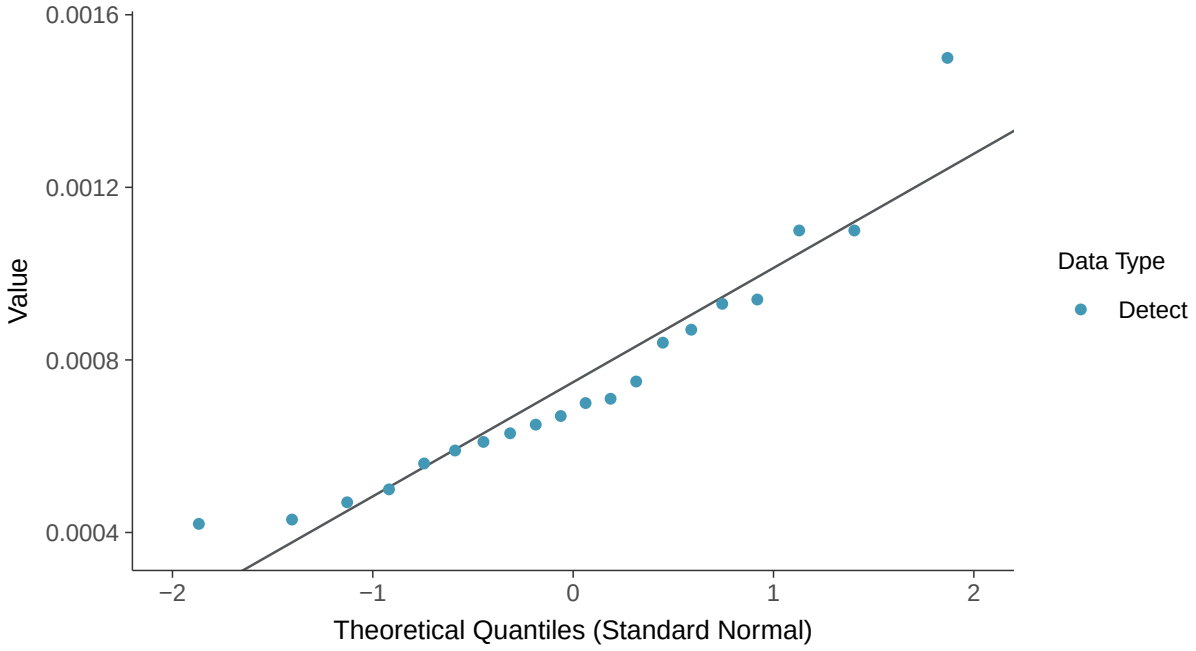
Boxplot by Season

Chromium, Total, MW-08 (mg/L)



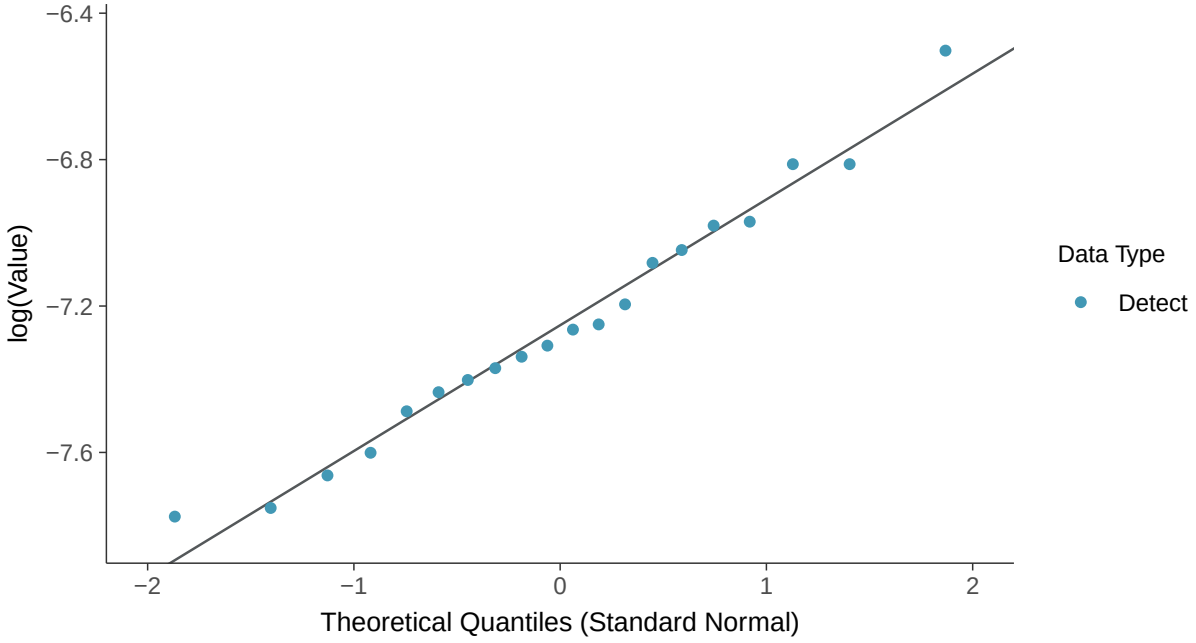
Normal Q-Q plot

Chromium, Total, MW-08 (mg/L)



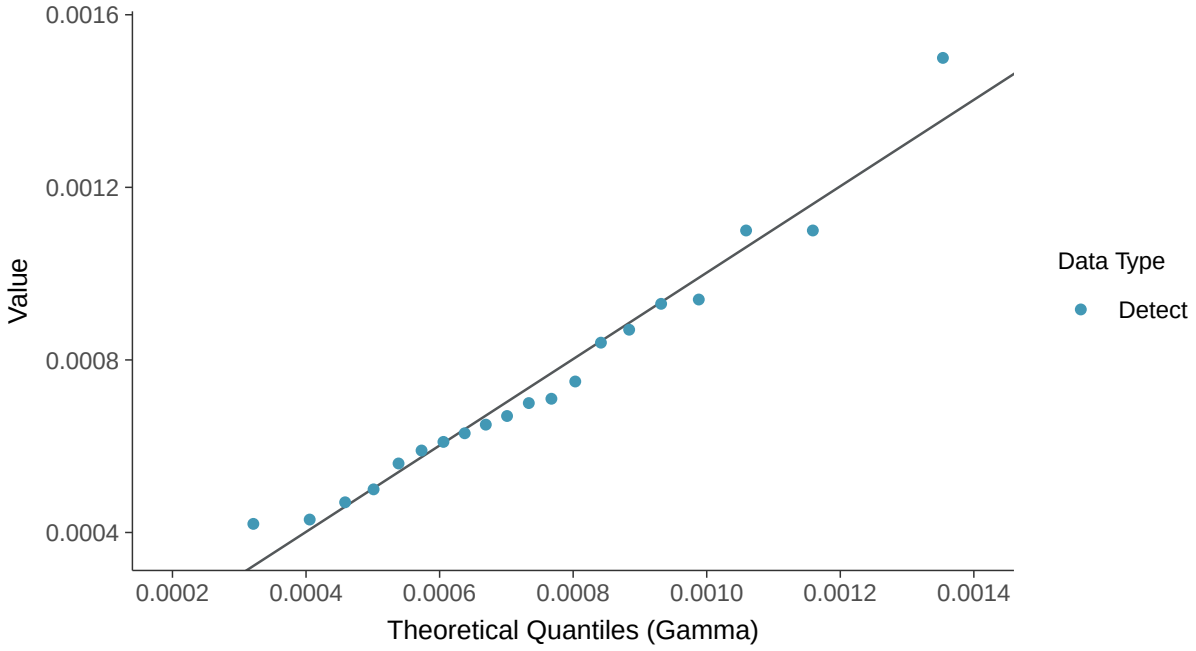
Lognormal Q-Q plot

Chromium, Total, MW-08 (mg/L)



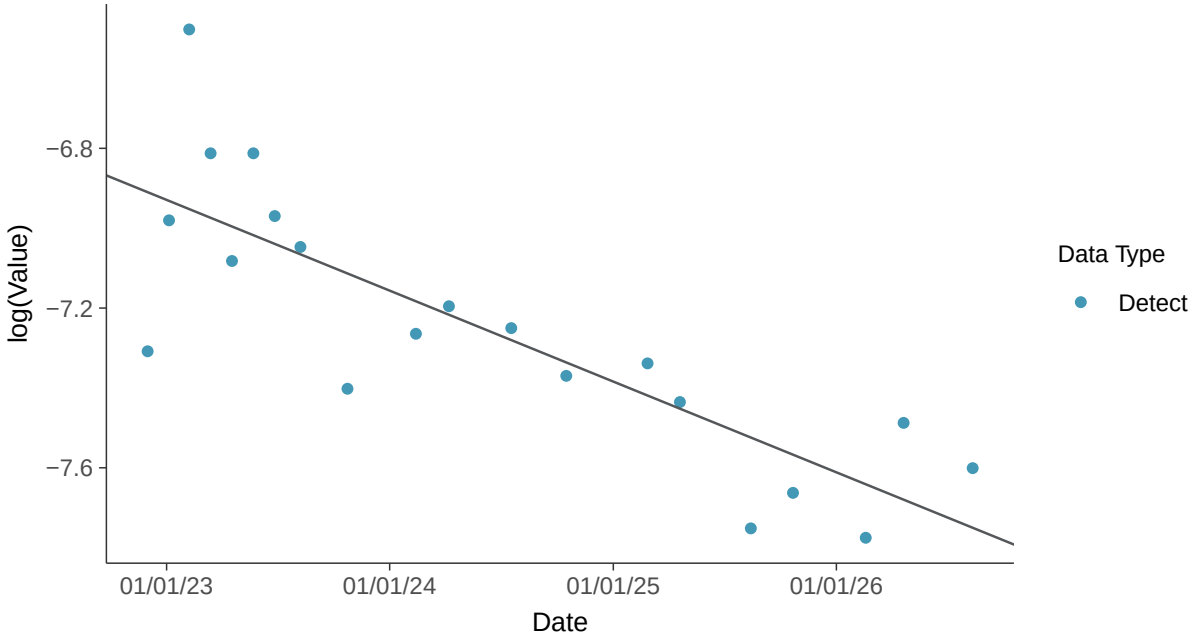
Gamma Q-Q plot

Chromium, Total, MW-08 (mg/L)



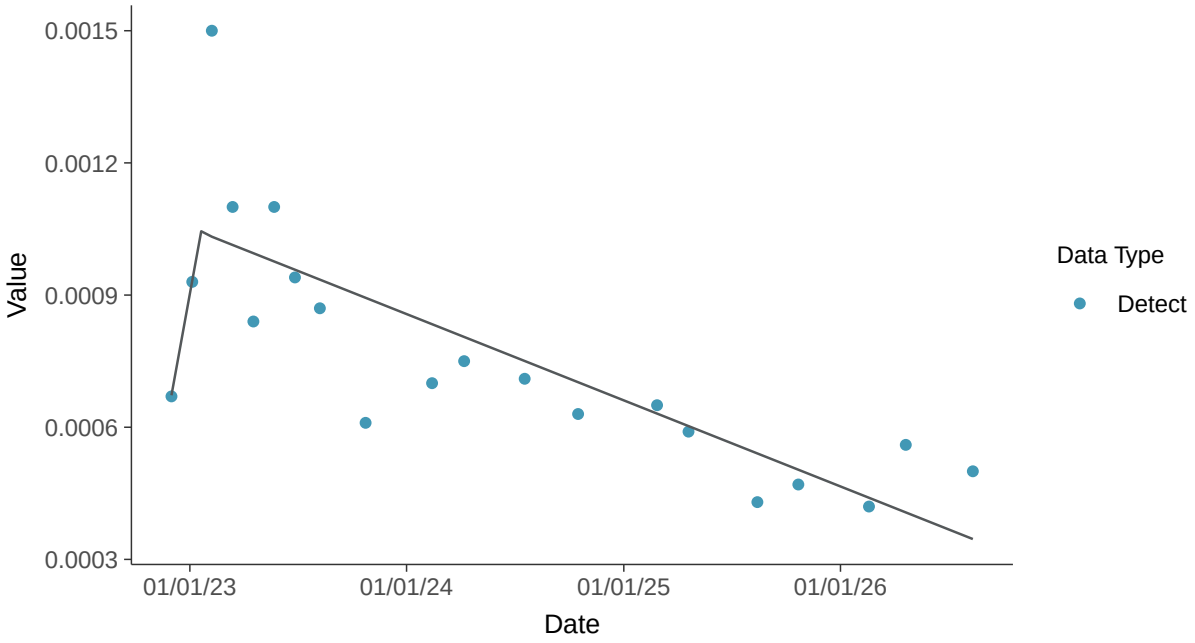
Trend Regression: Lognormal MLE

Chromium, Total, MW-08 (mg/L)



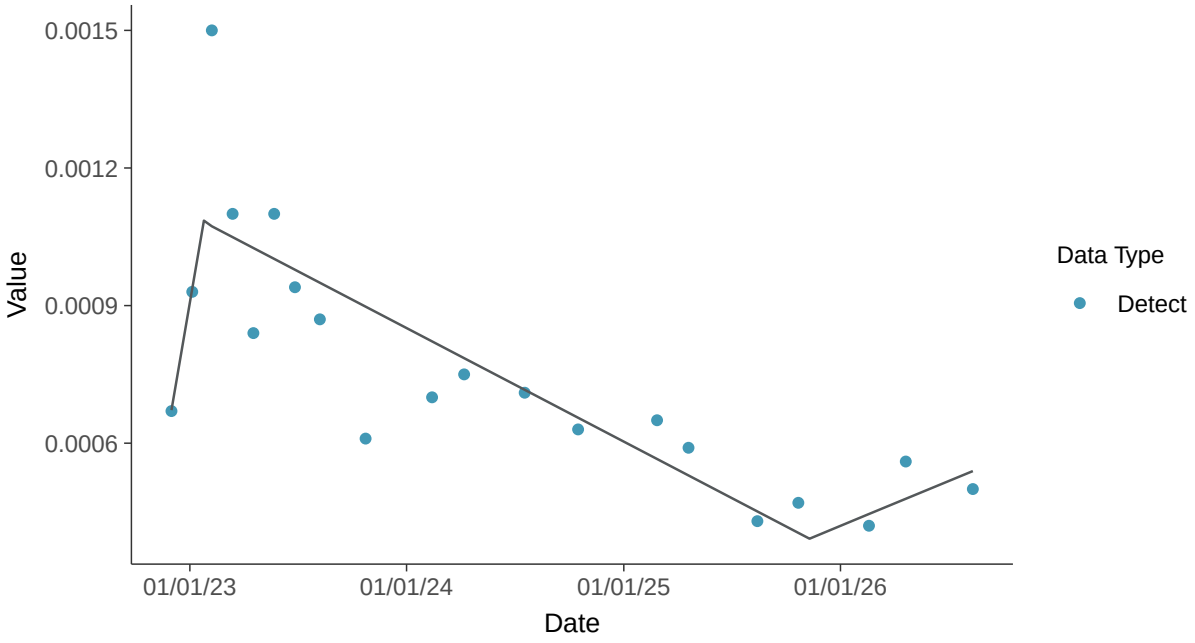
Trend Regression: Piecewise Linear-Linear

Chromium, Total, MW-08 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Chromium, Total, MW-08 (mg/L)

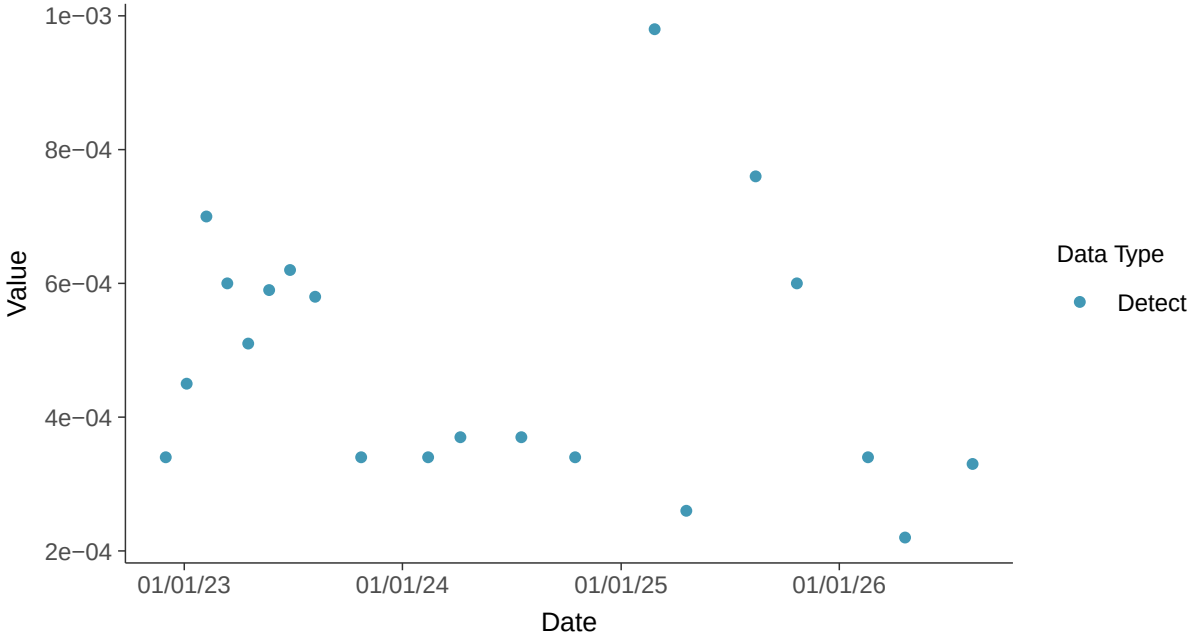


Appendix IV: Cobalt, MW-08

ID: 18_1_4_110

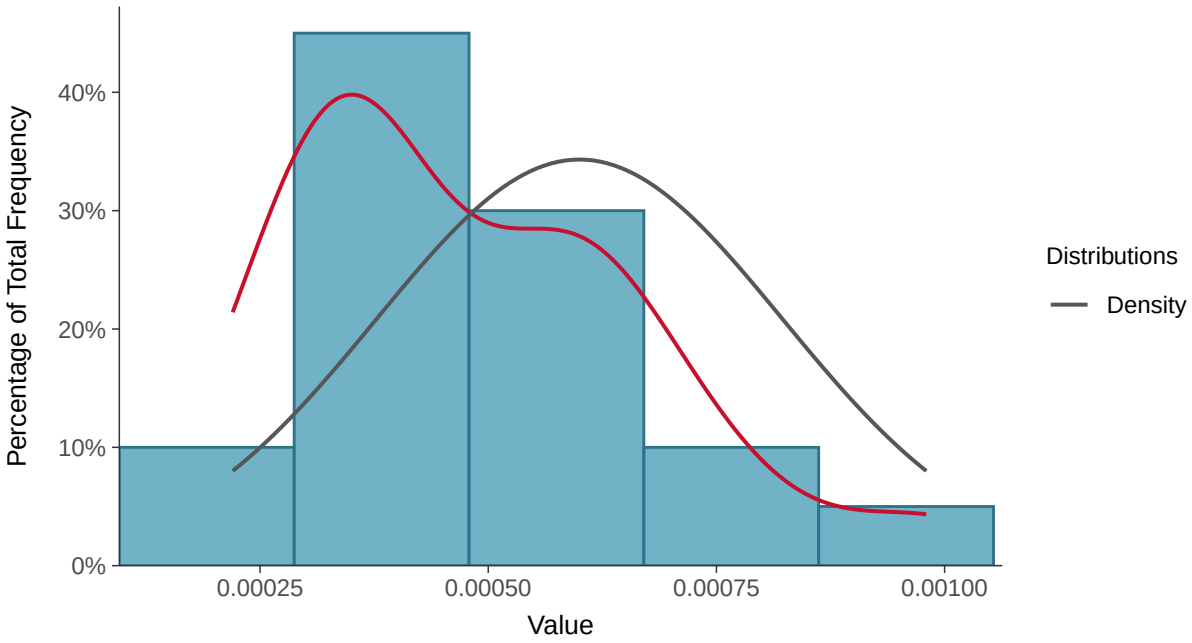
Scatter Plot

Cobalt, MW-08 (mg/L)



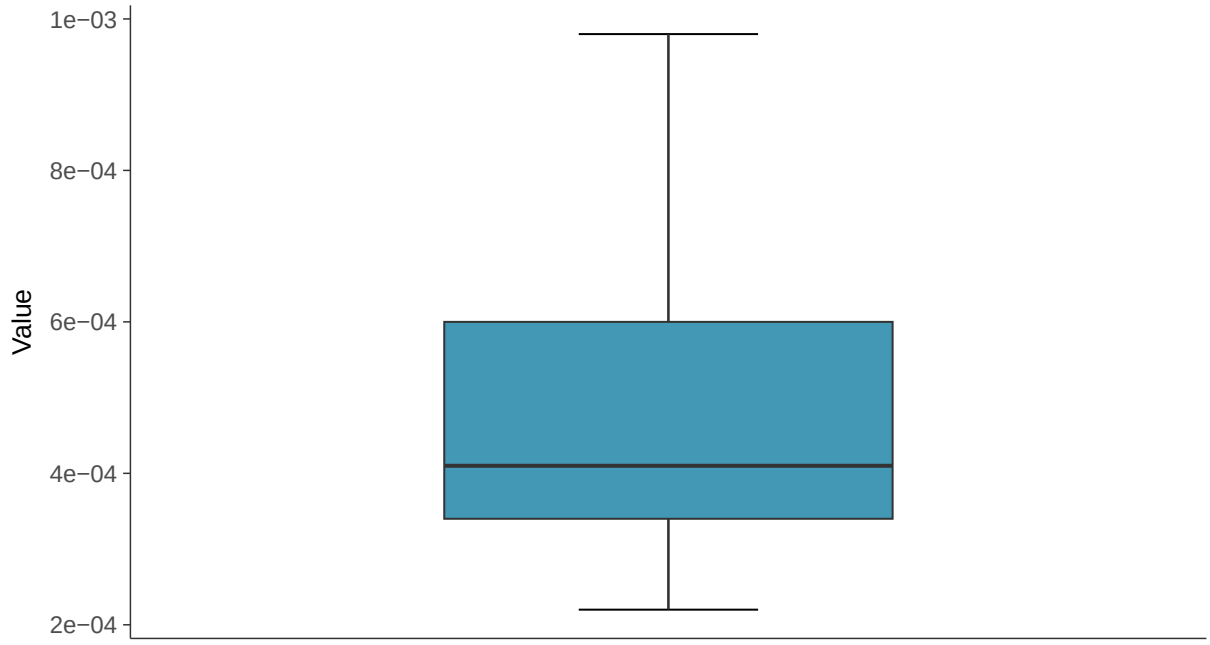
Histogram

Cobalt, MW-08 (mg/L)



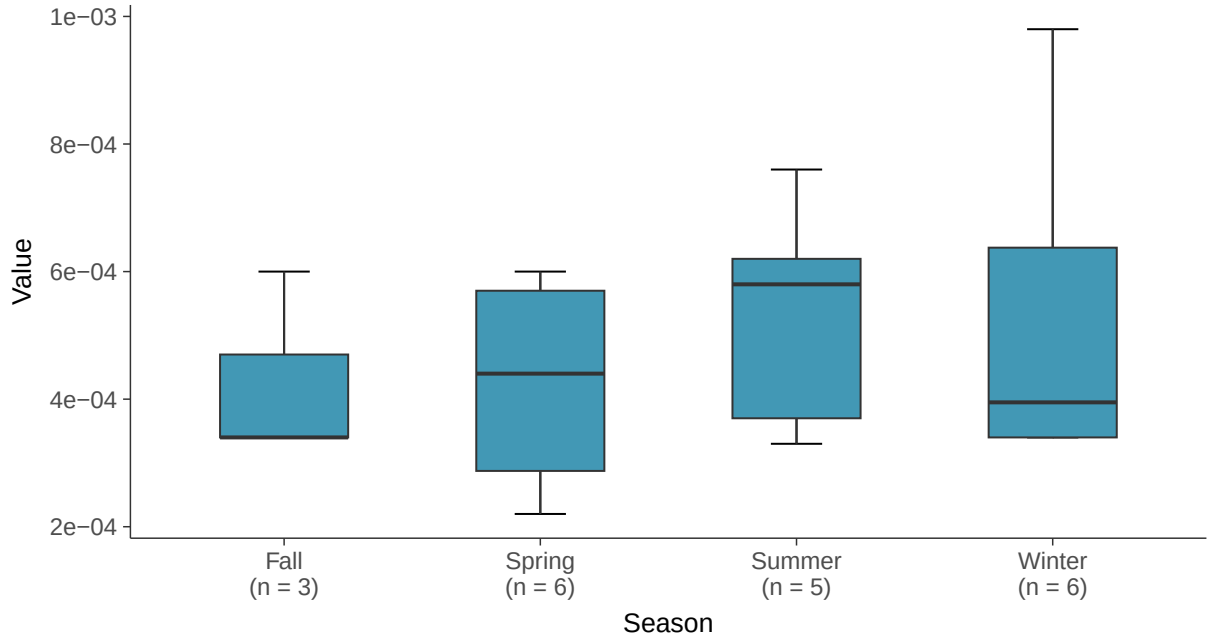
Boxplot

Cobalt, MW-08 (mg/L)



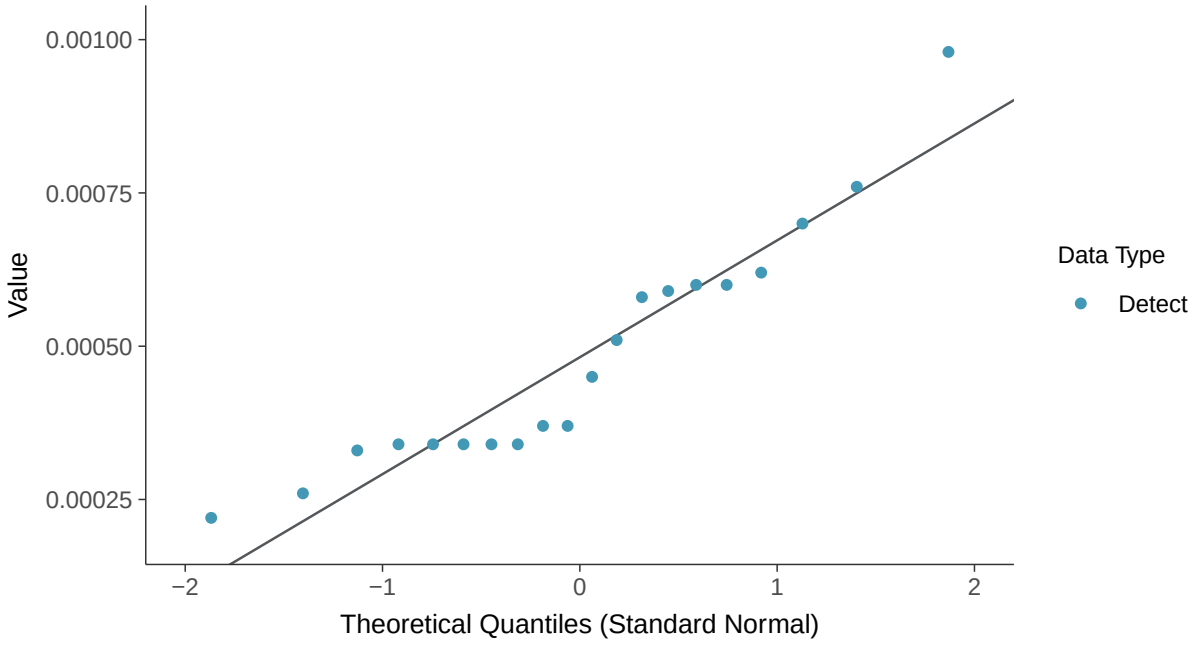
Boxplot by Season

Cobalt, MW-08 (mg/L)



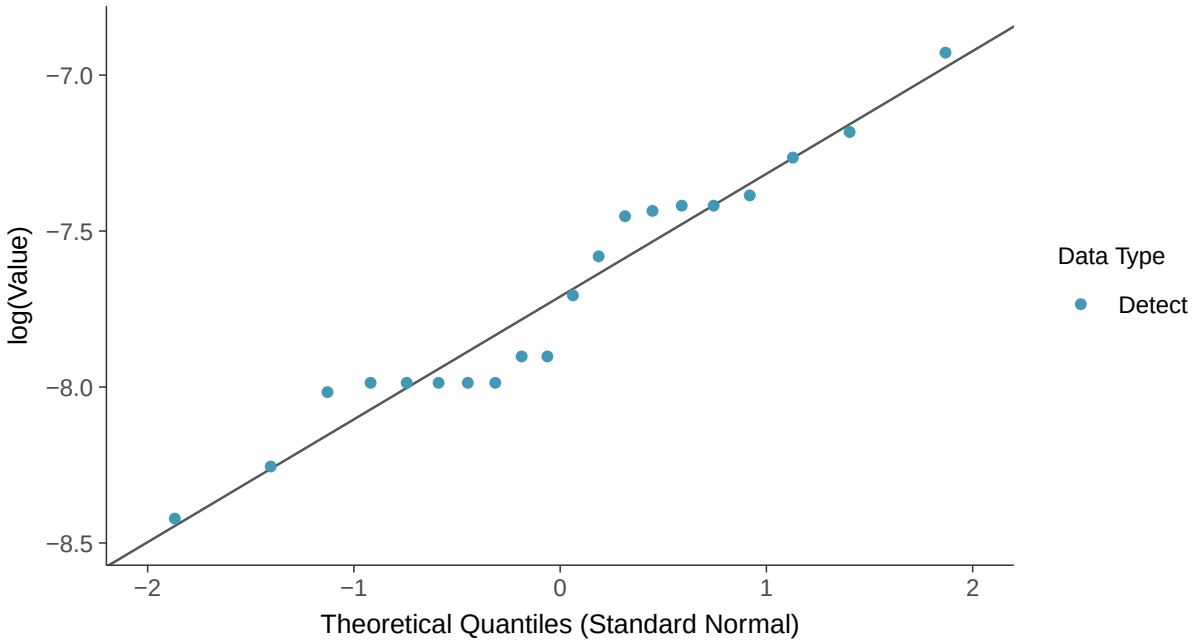
Normal Q-Q plot

Cobalt, MW-08 (mg/L)



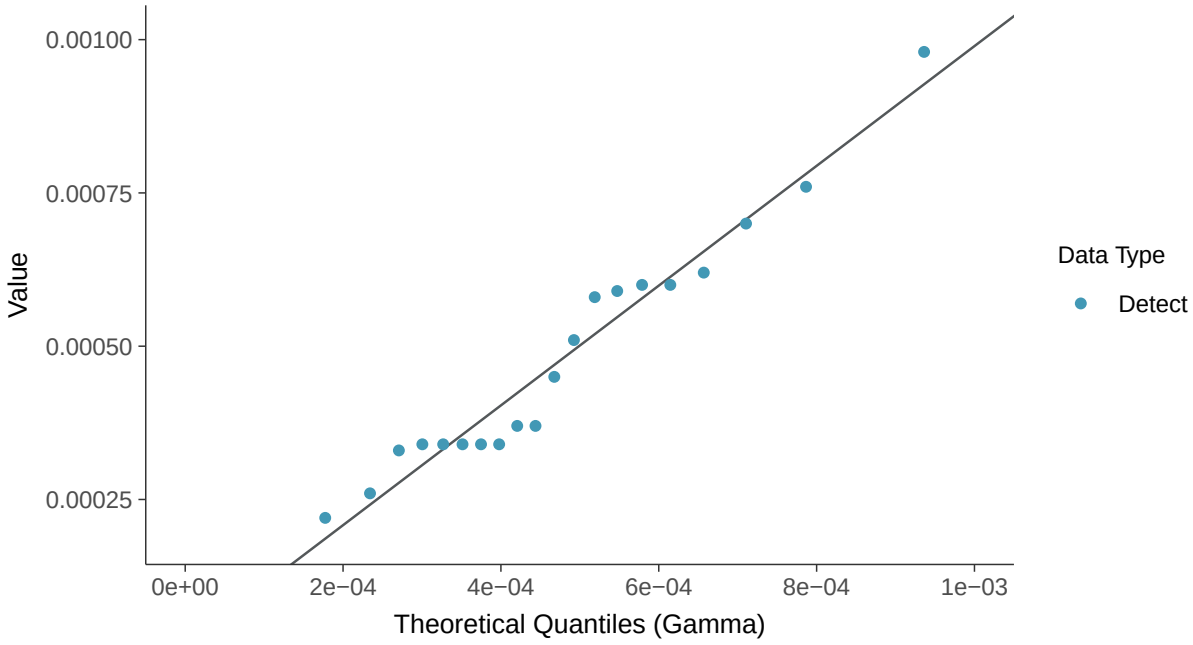
Lognormal Q-Q plot

Cobalt, MW-08 (mg/L)



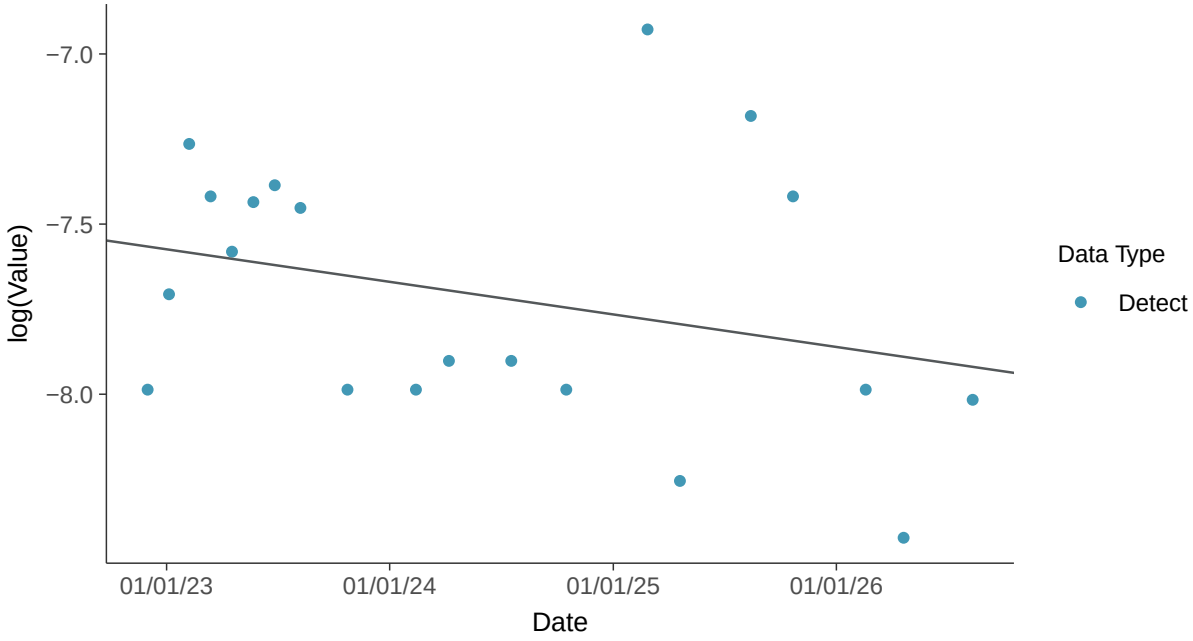
Gamma Q-Q plot

Cobalt, MW-08 (mg/L)



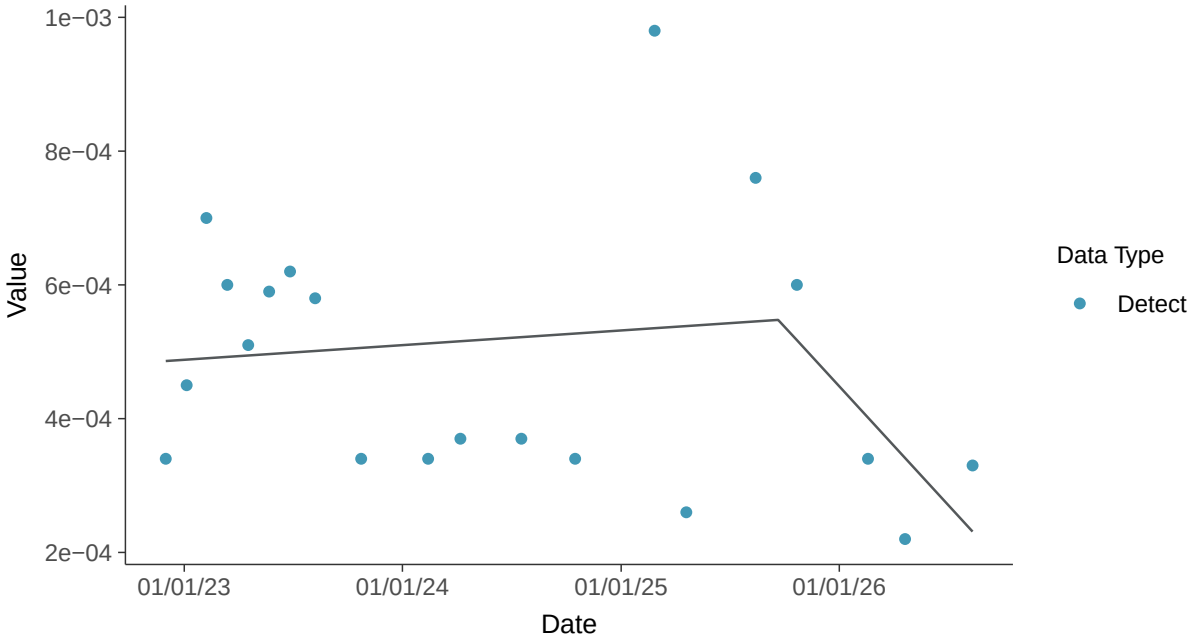
Trend Regression: Lognormal MLE

Cobalt, MW-08 (mg/L)



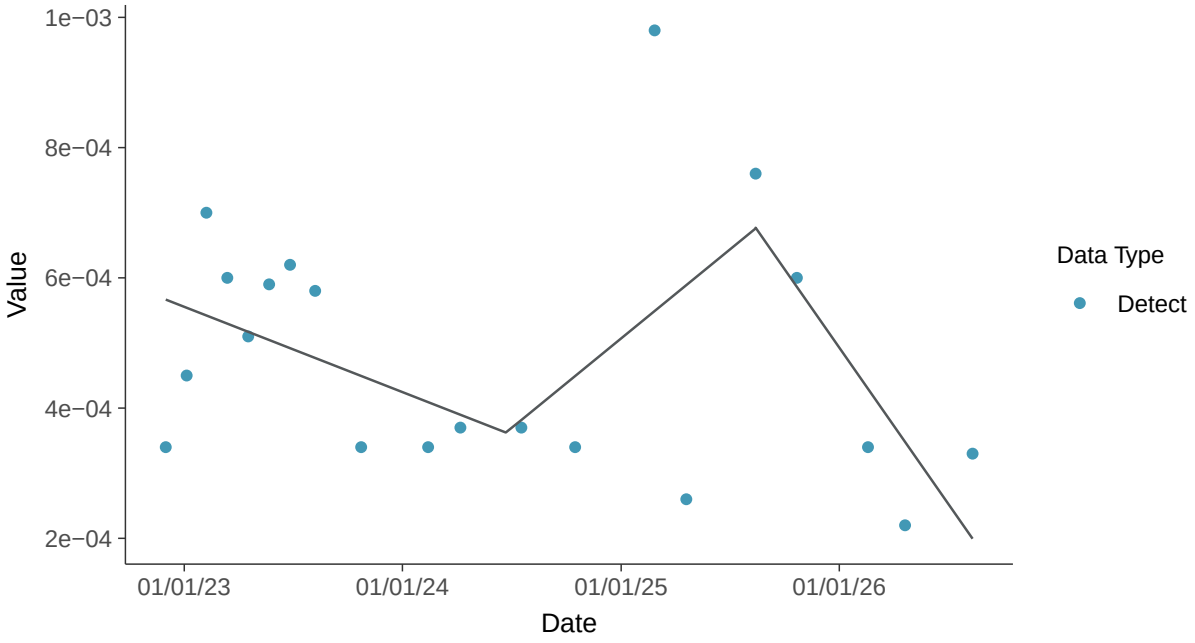
Trend Regression: Piecewise Linear-Linear

Cobalt, MW-08 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Cobalt, MW-08 (mg/L)

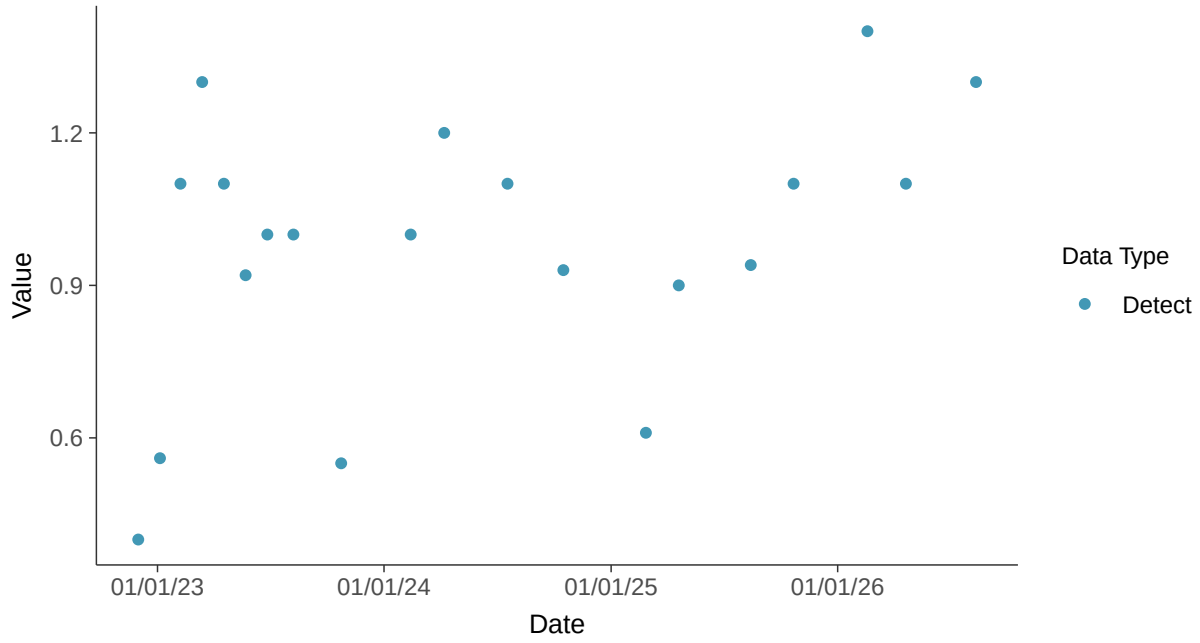


Appendix IV: Fluoride (App IV), MW-08

ID: 18_1_4_113

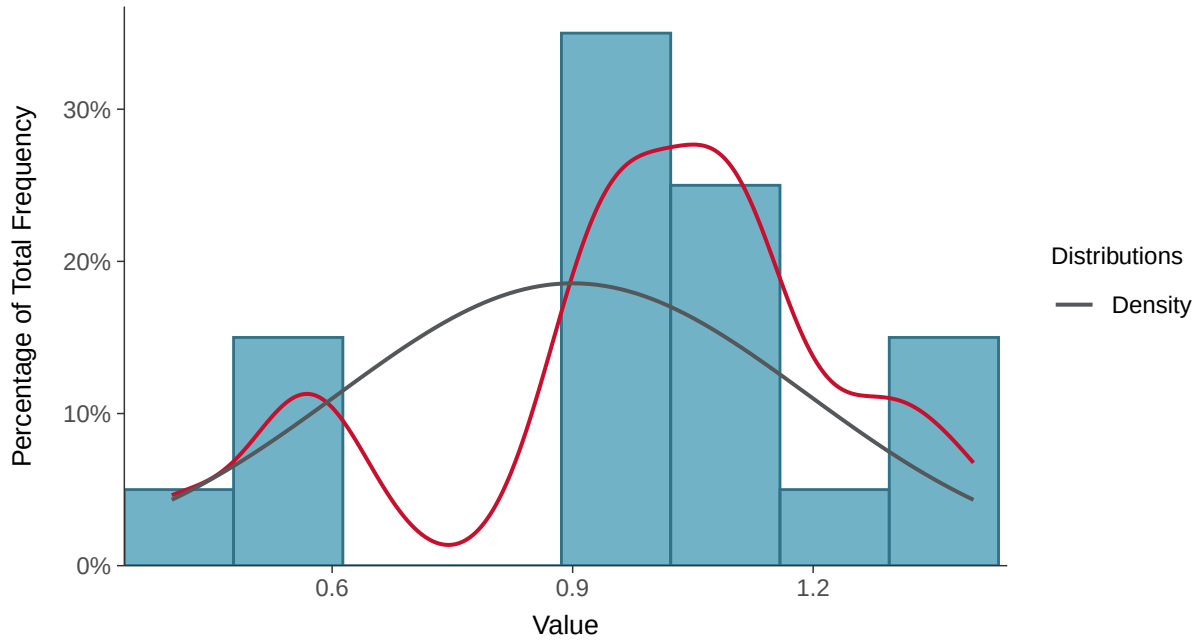
Scatter Plot

Fluoride (App IV), MW-08 (mg/L)



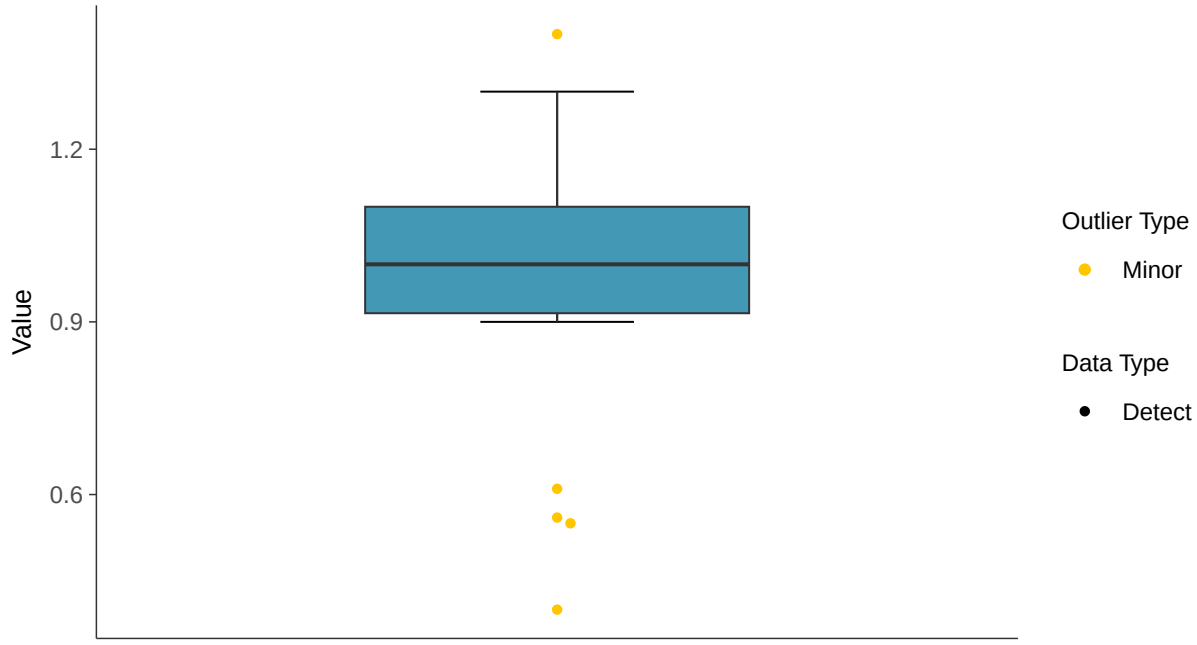
Histogram

Fluoride (App IV), MW-08 (mg/L)



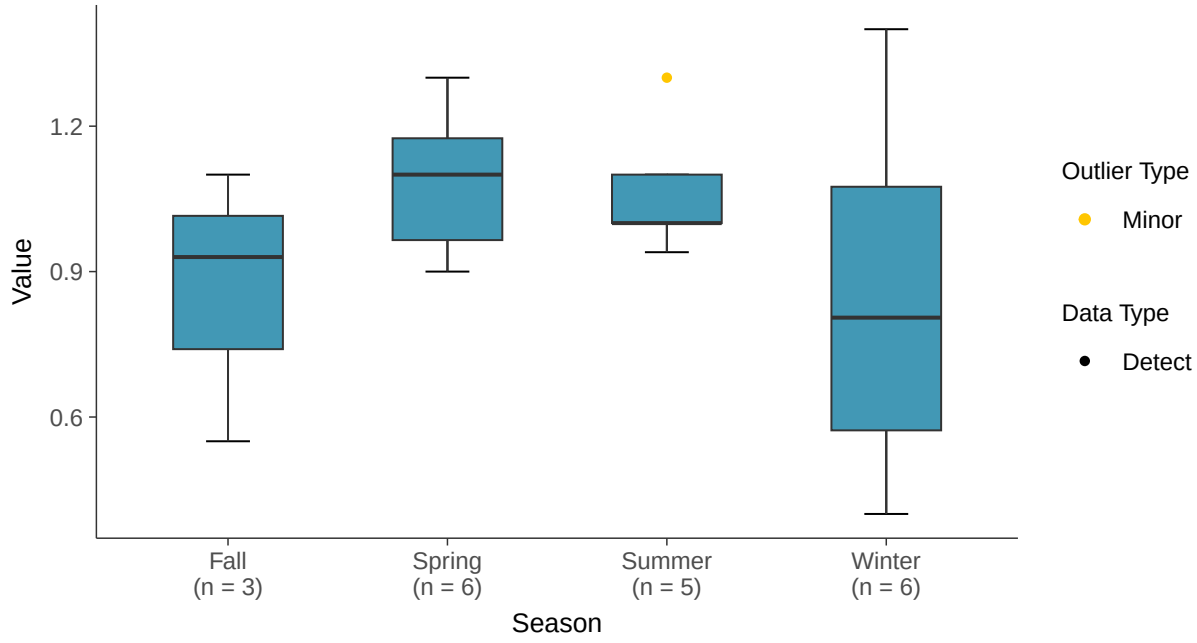
Boxplot

Fluoride (App IV), MW-08 (mg/L)



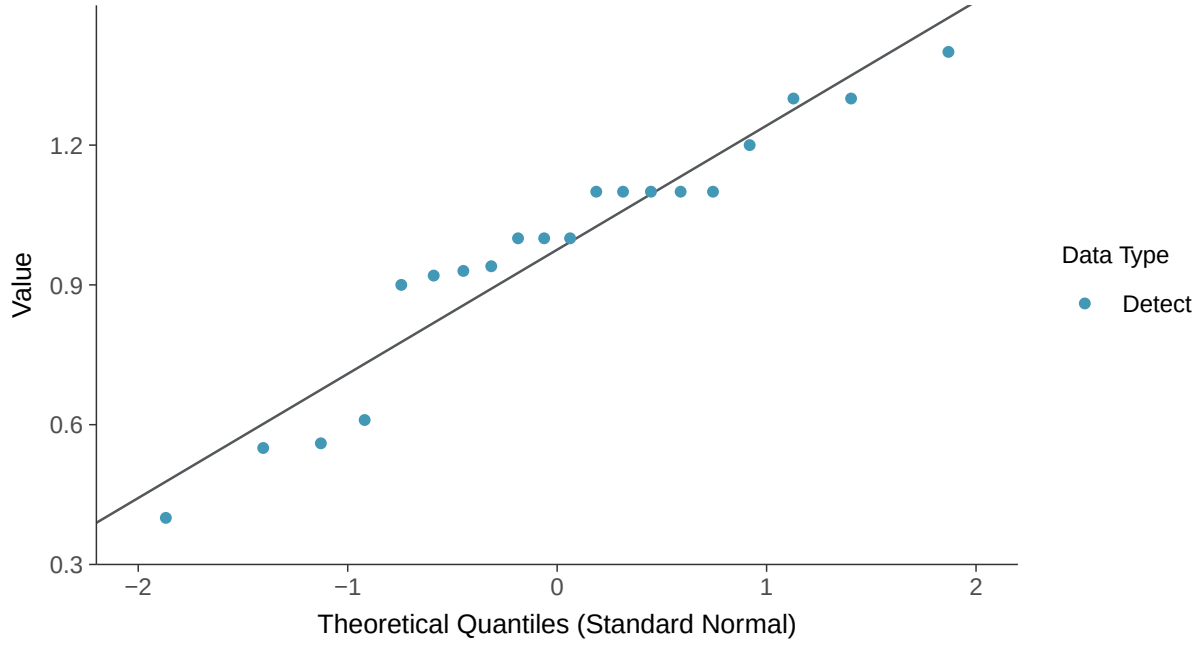
Boxplot by Season

Fluoride (App IV), MW-08 (mg/L)



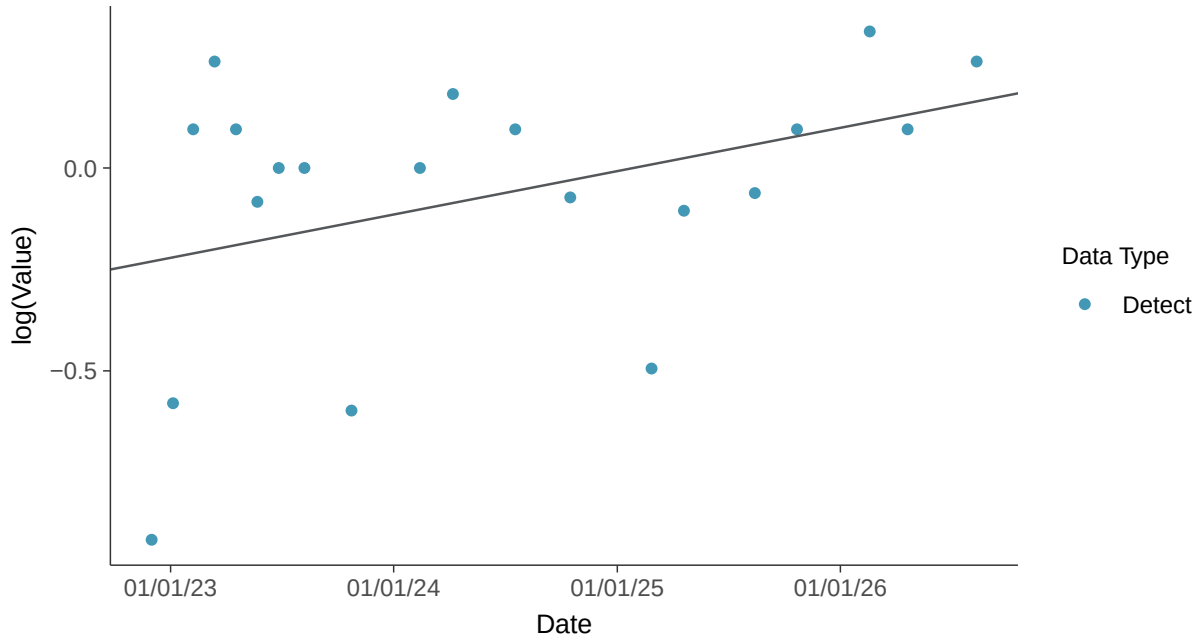
Normal Q-Q plot

Fluoride (App IV), MW-08 (mg/L)



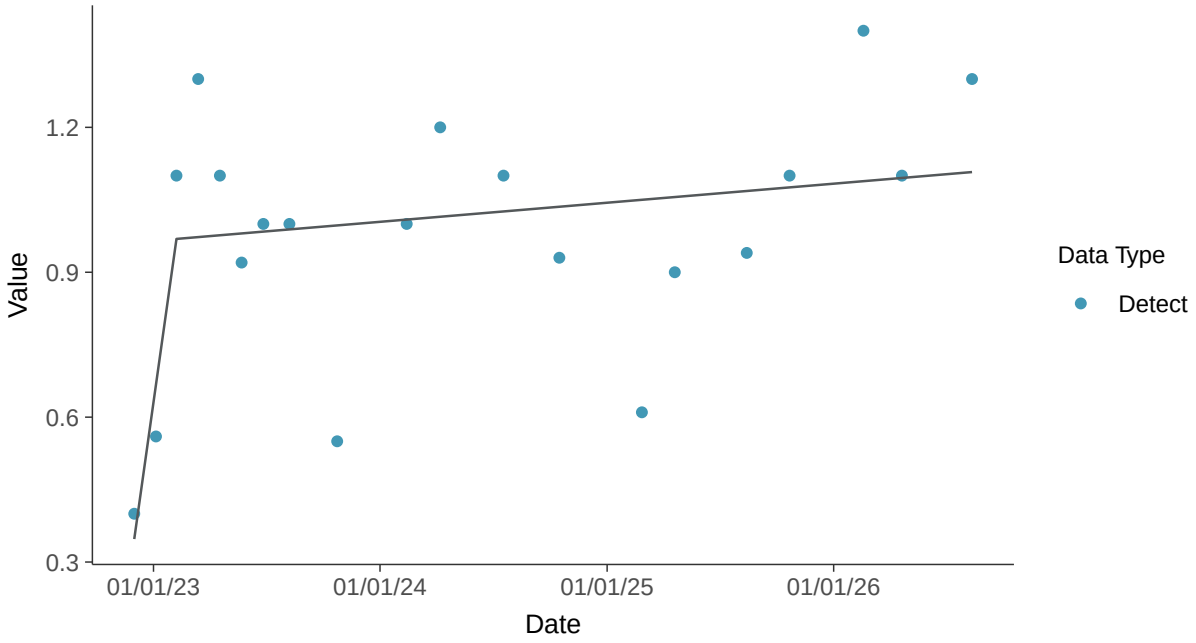
Trend Regression: Lognormal MLE

Fluoride (App IV), MW-08 (mg/L)



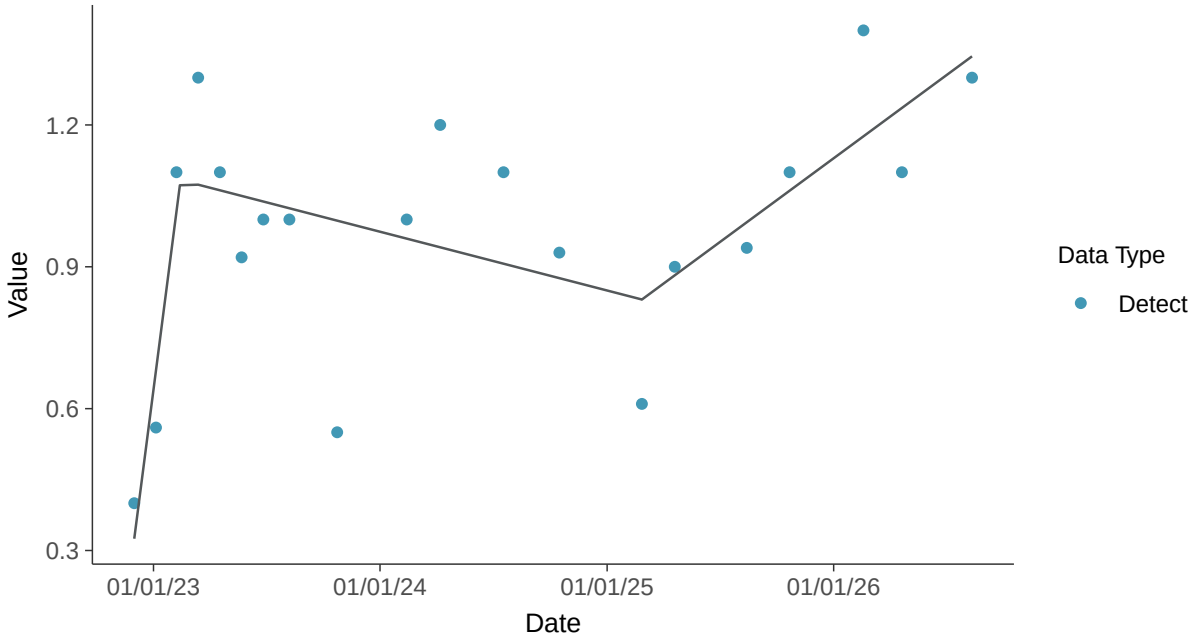
Trend Regression: Piecewise Linear-Linear

Fluoride (App IV), MW-08 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Fluoride (App IV), MW-08 (mg/L)

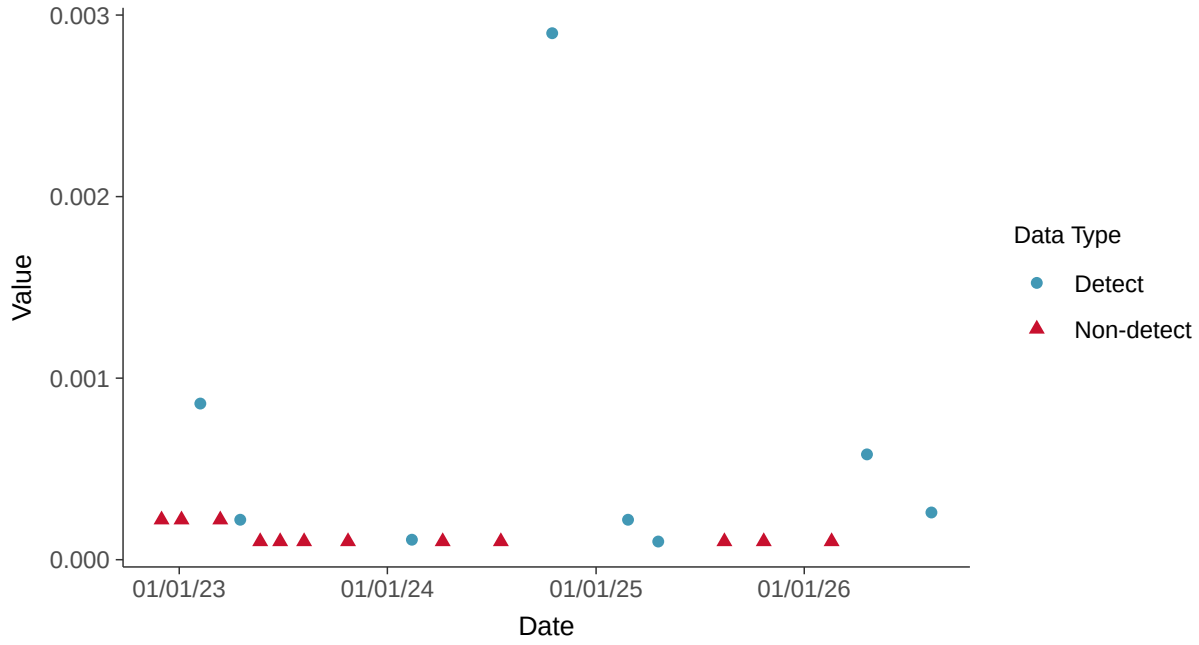


Appendix IV: Lead, MW-08

ID: 18_1_4_115

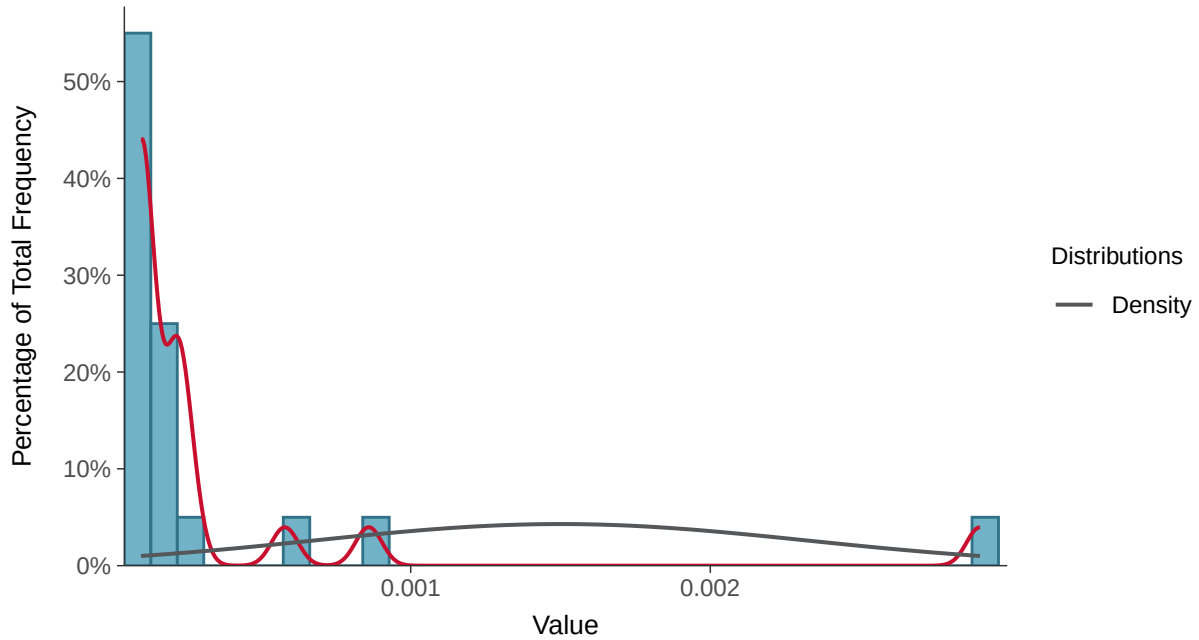
Scatter Plot

Lead, MW-08 (mg/L)



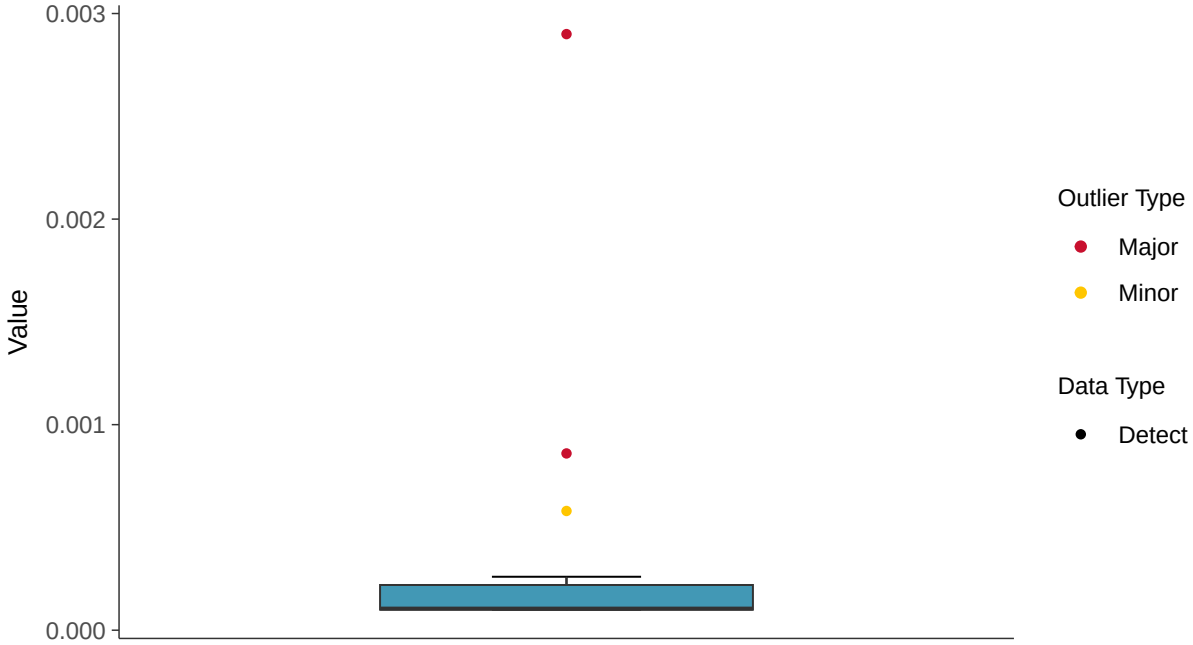
Histogram

Lead, MW-08 (mg/L)



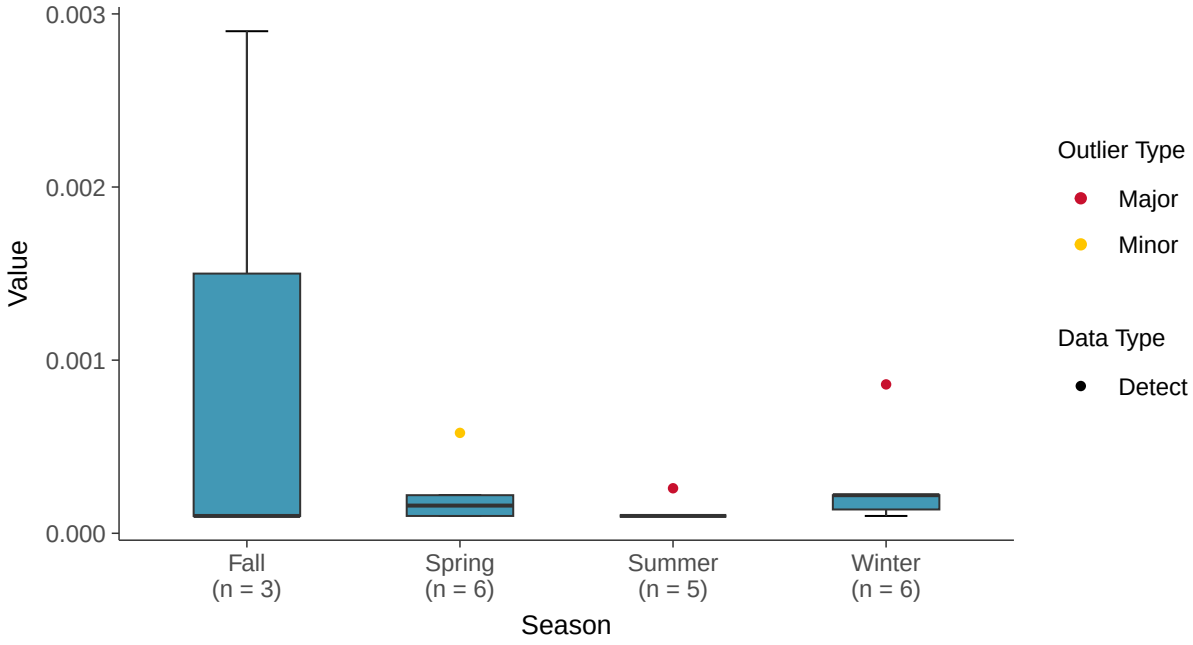
Boxplot

Lead, MW-08 (mg/L)



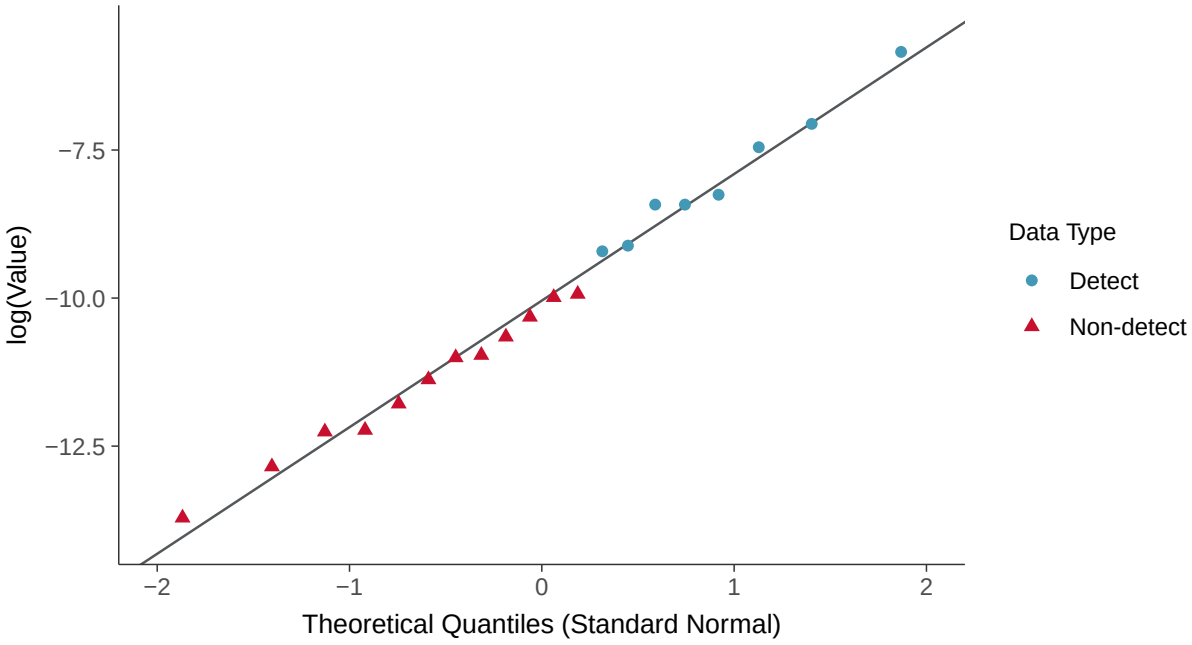
Boxplot by Season

Lead, MW-08 (mg/L)



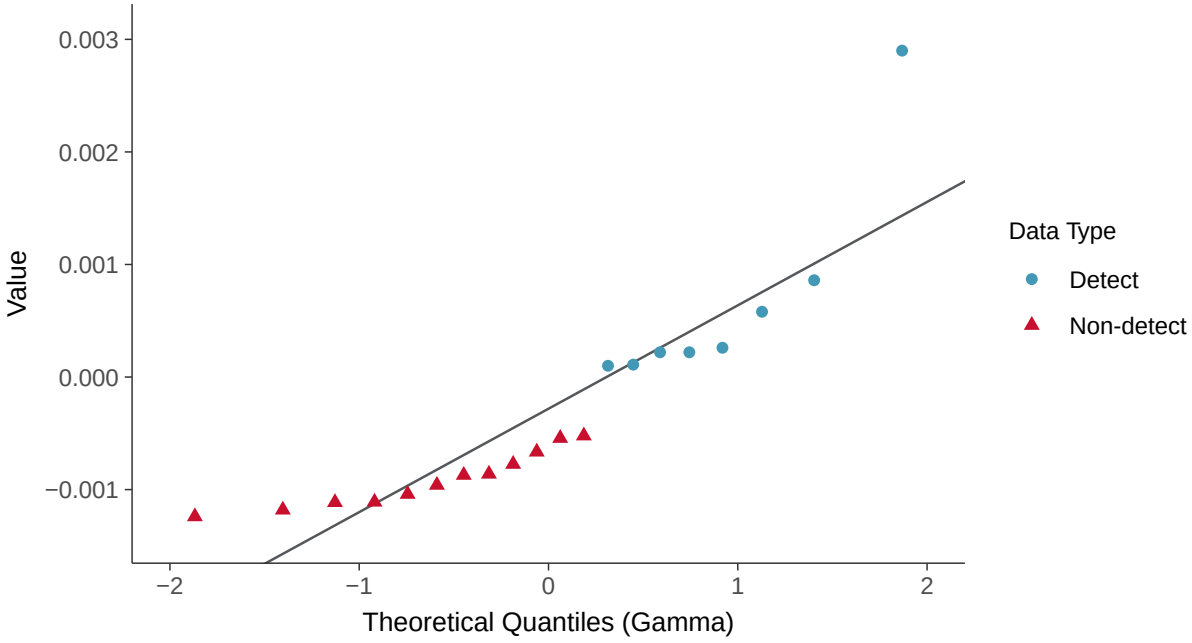
Lognormal Q-Q plot using ROS Imputed Estimates

Lead, MW-08 (mg/L)



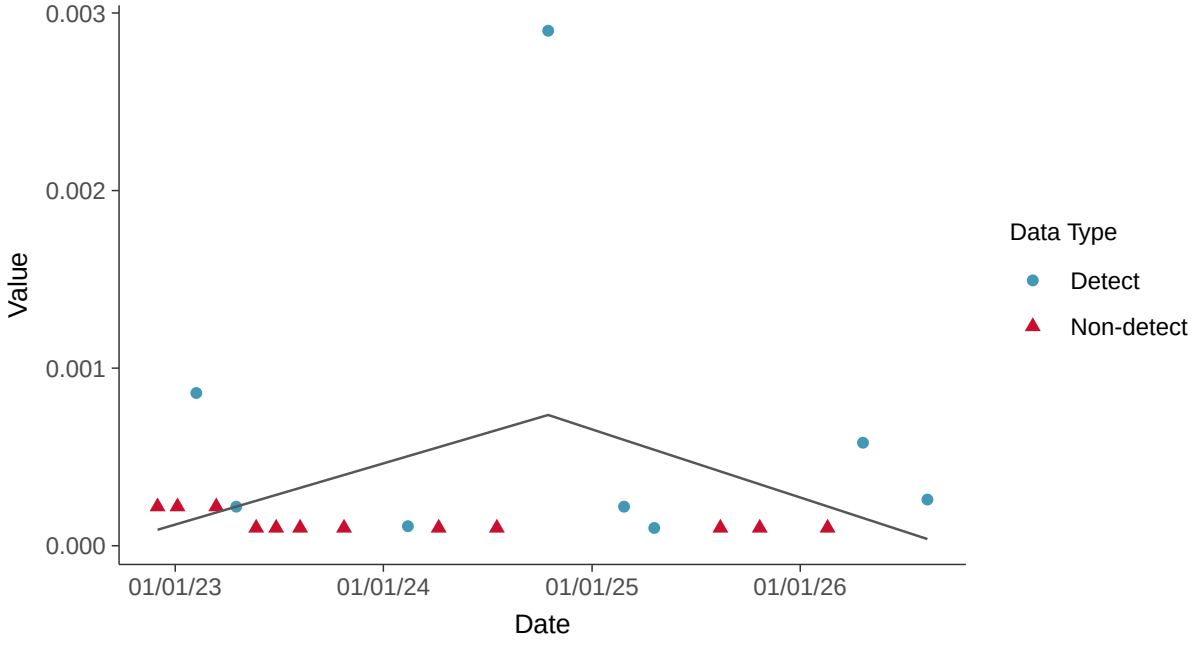
Gamma Q-Q plot using ROS Imputed Estimates

Lead, MW-08 (mg/L)



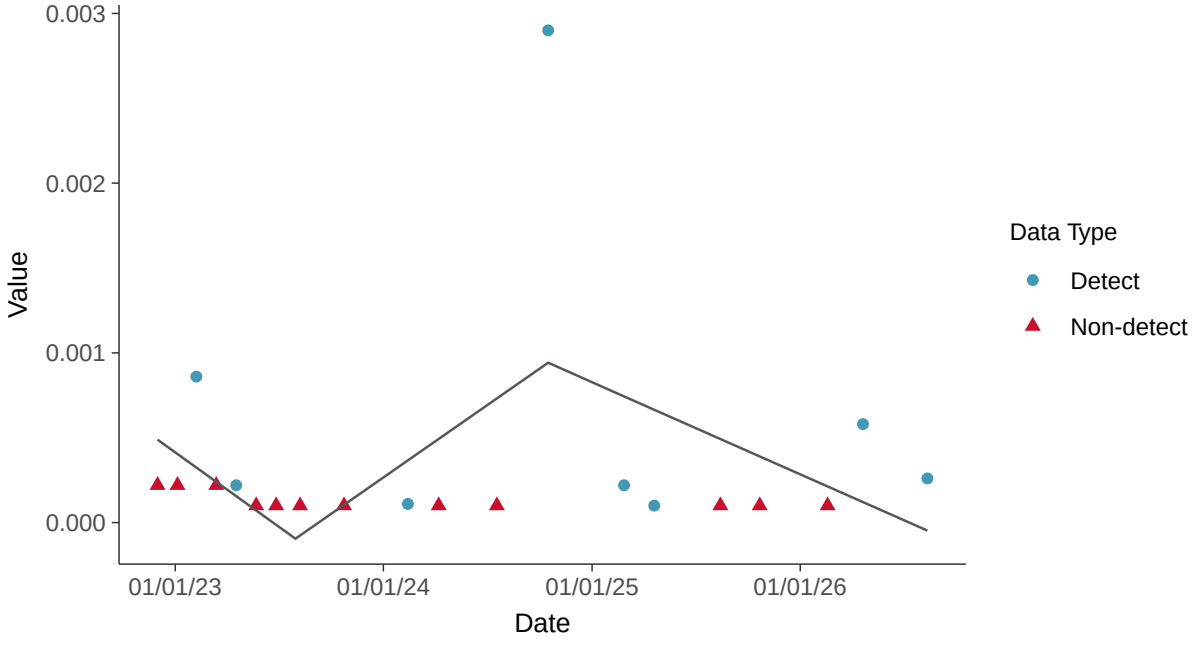
Trend Regression: Piecewise Linear-Linear

Lead, MW-08 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Lead, MW-08 (mg/L)

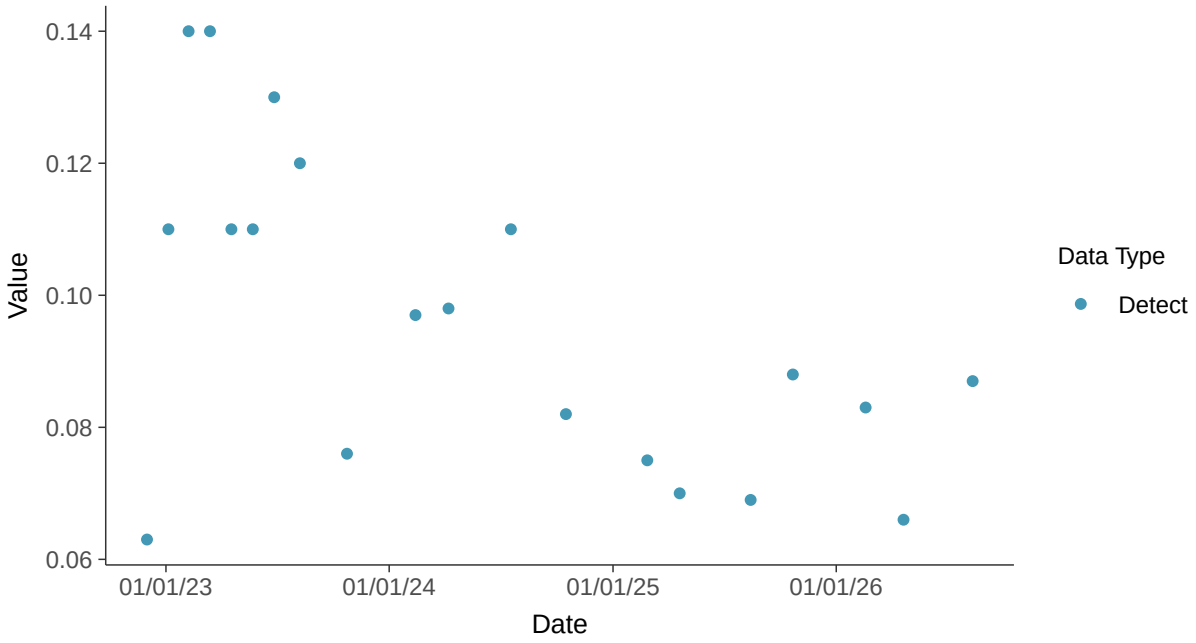


Appendix IV: Lithium, MW-08

ID: 18_1_4_116

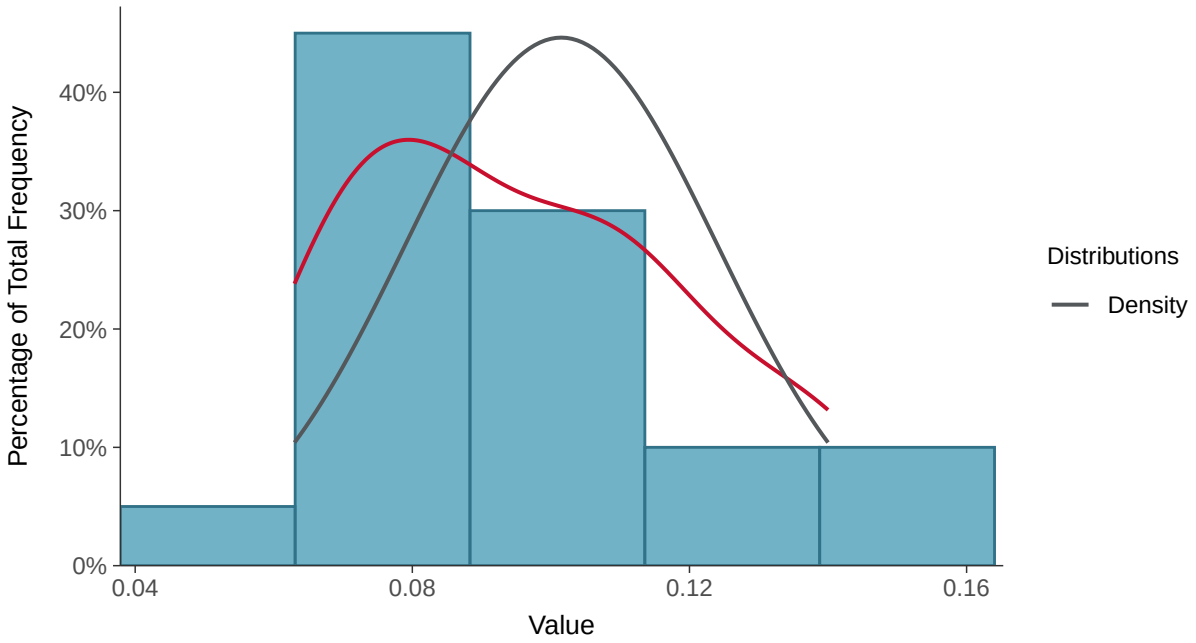
Scatter Plot

Lithium, MW-08 (mg/L)



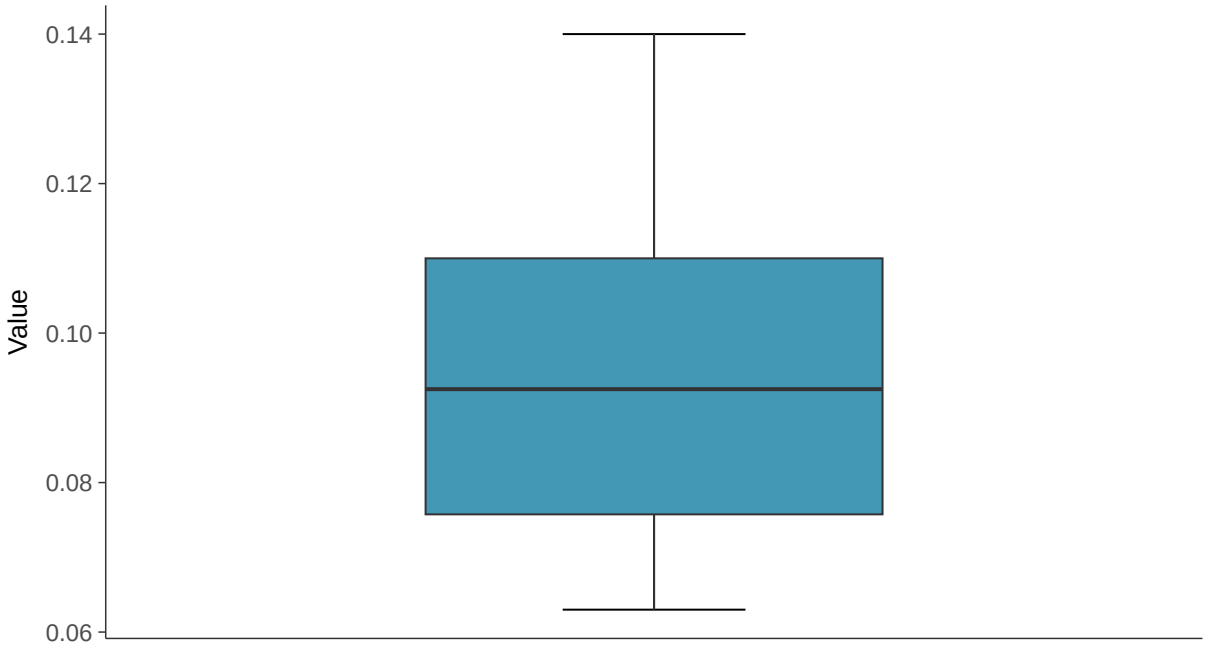
Histogram

Lithium, MW-08 (mg/L)



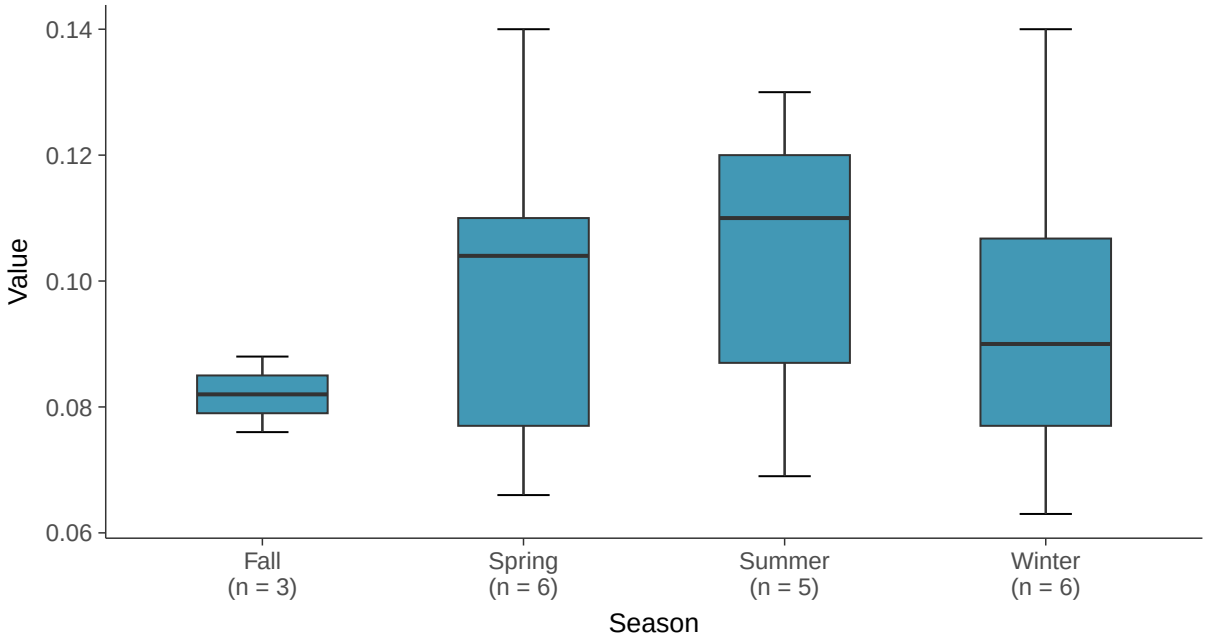
Boxplot

Lithium, MW-08 (mg/L)



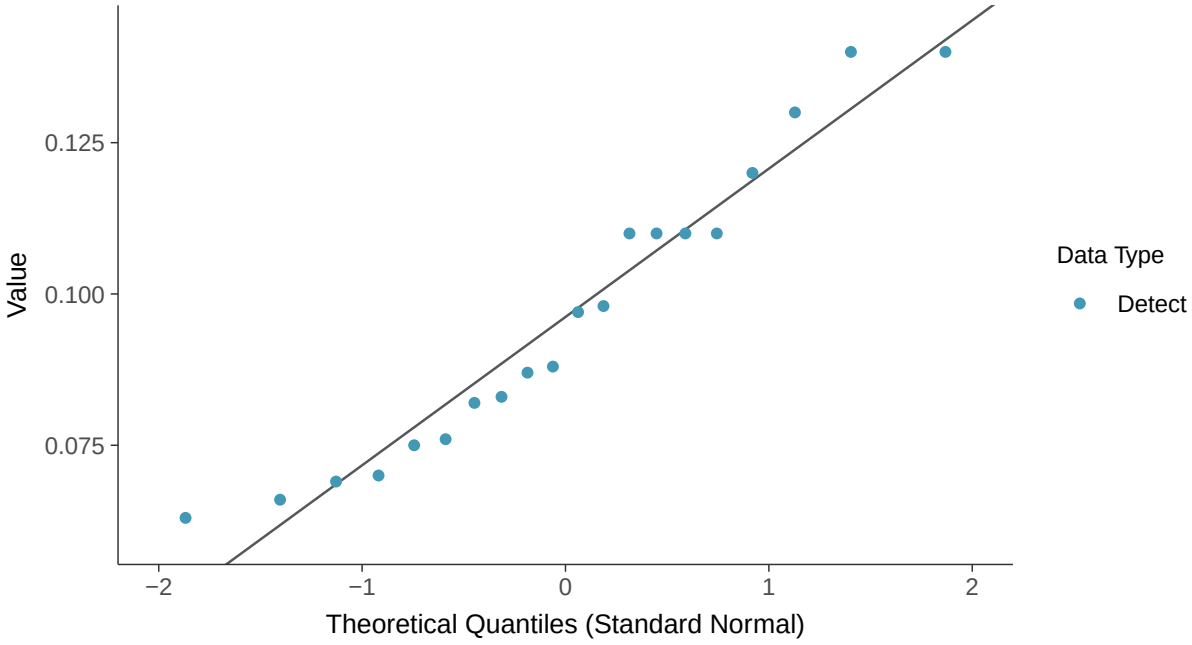
Boxplot by Season

Lithium, MW-08 (mg/L)



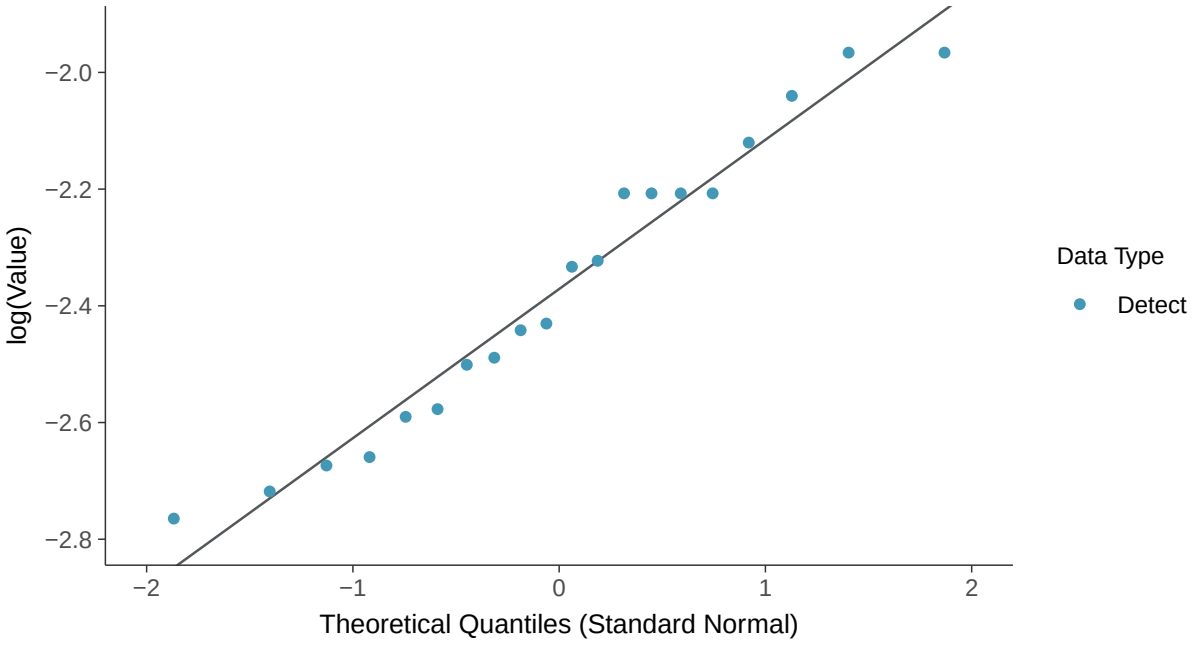
Normal Q-Q plot

Lithium, MW-08 (mg/L)



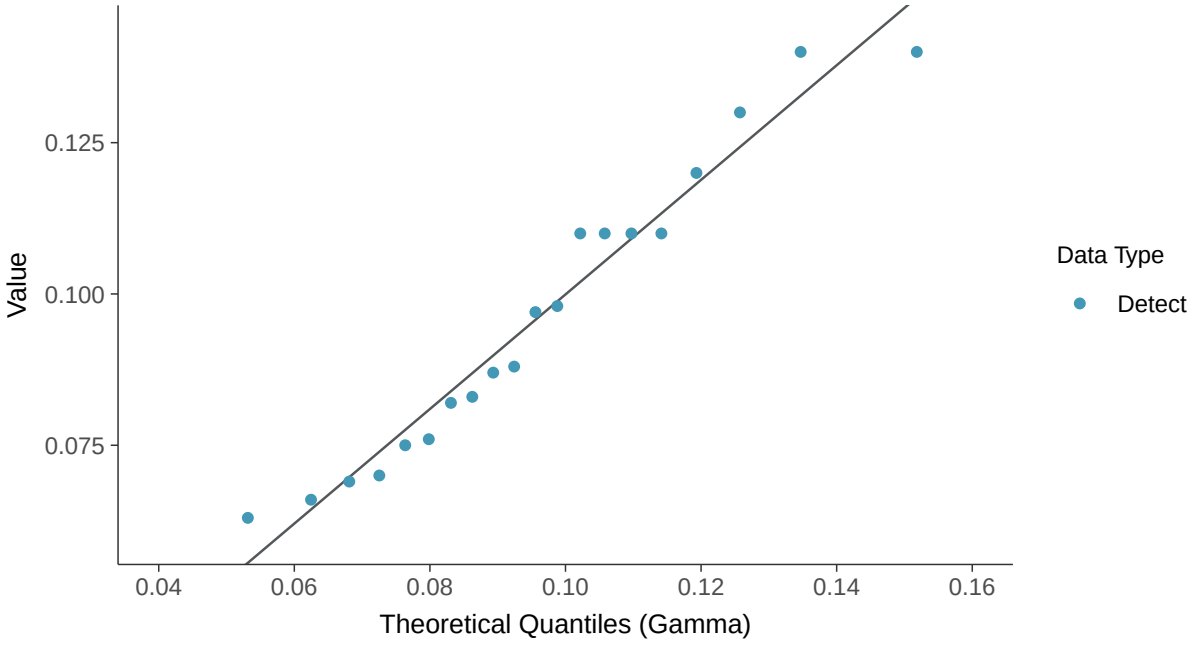
Lognormal Q-Q plot

Lithium, MW-08 (mg/L)



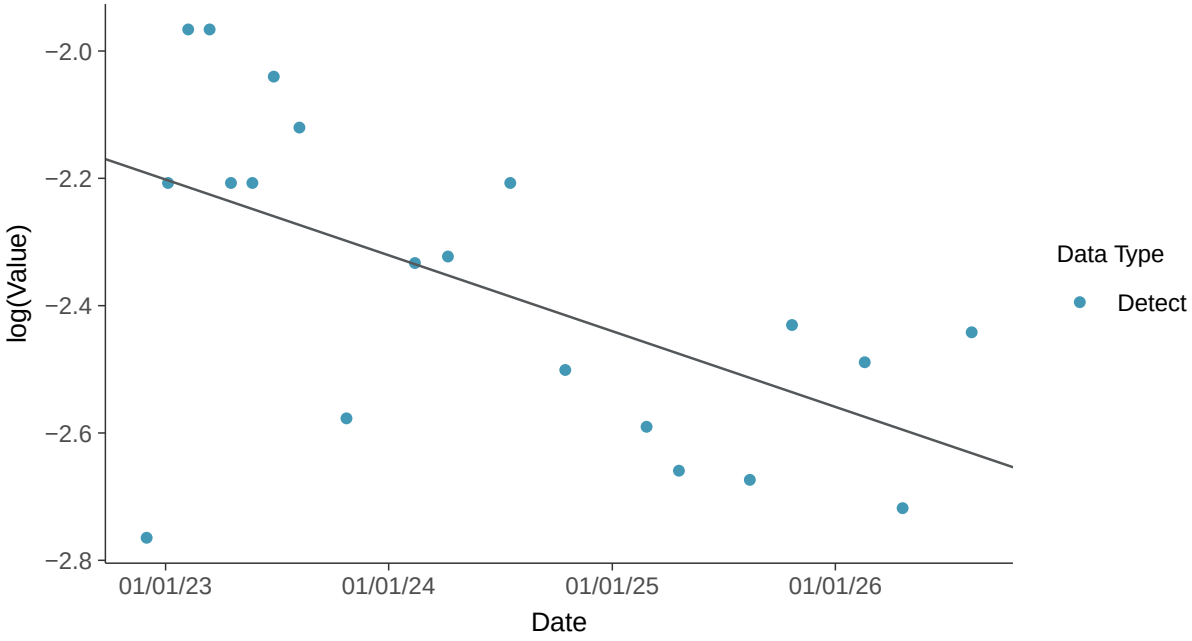
Gamma Q-Q plot

Lithium, MW-08 (mg/L)



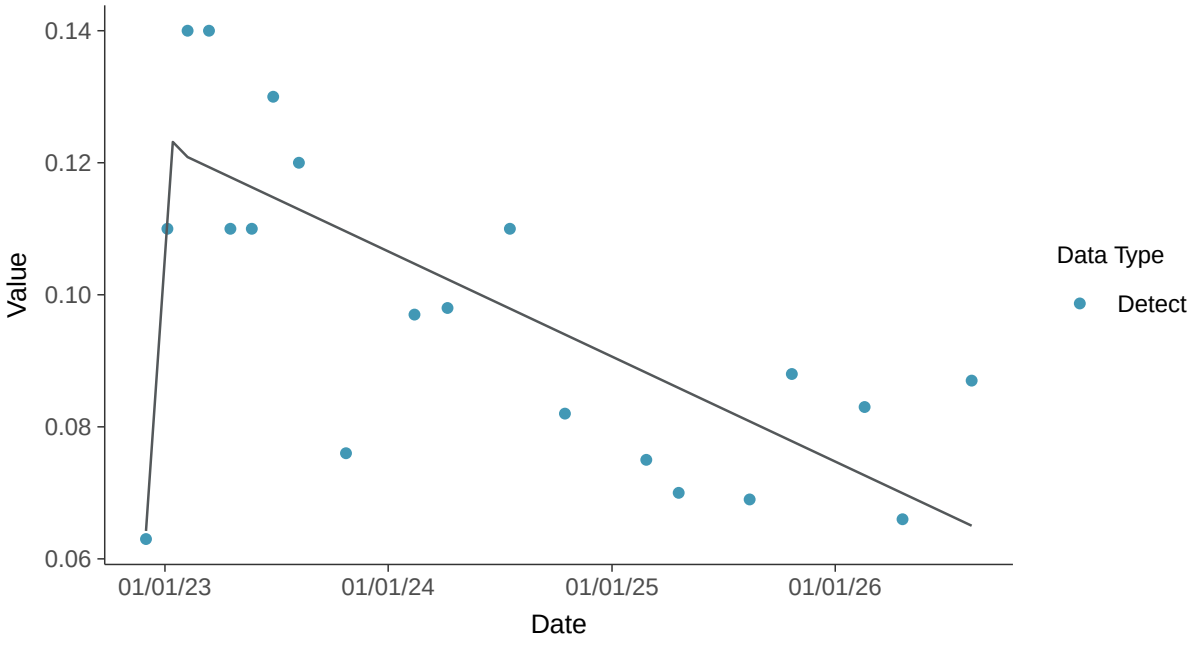
Trend Regression: Lognormal MLE

Lithium, MW-08 (mg/L)



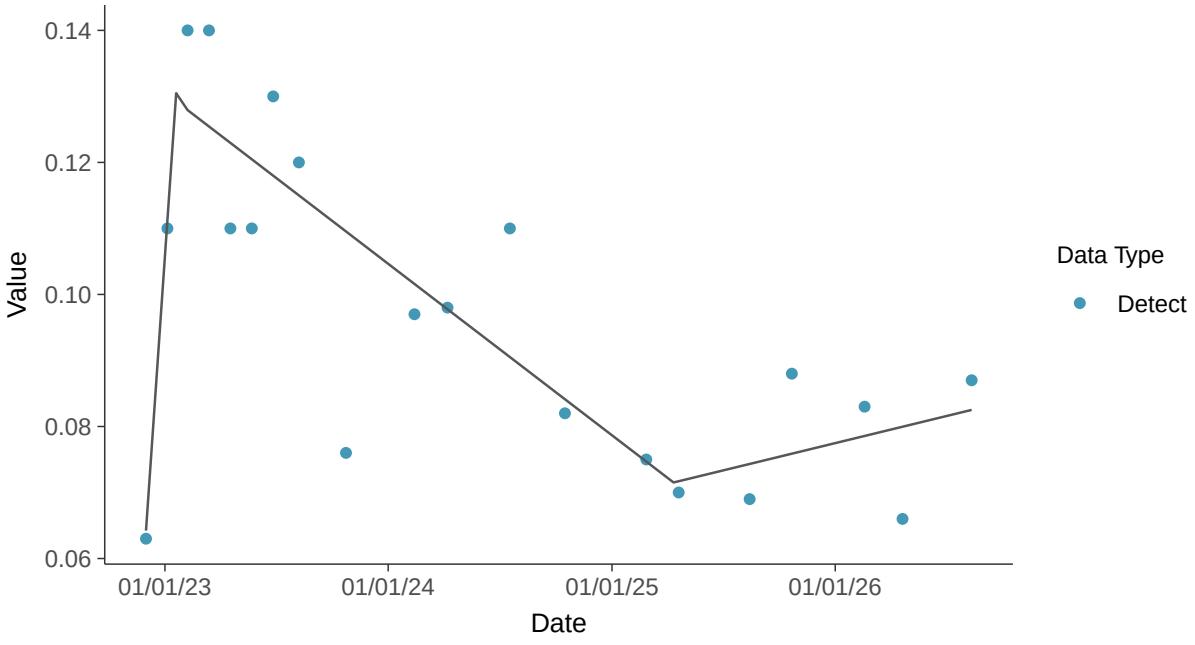
Trend Regression: Piecewise Linear-Linear

Lithium, MW-08 (mg/L)



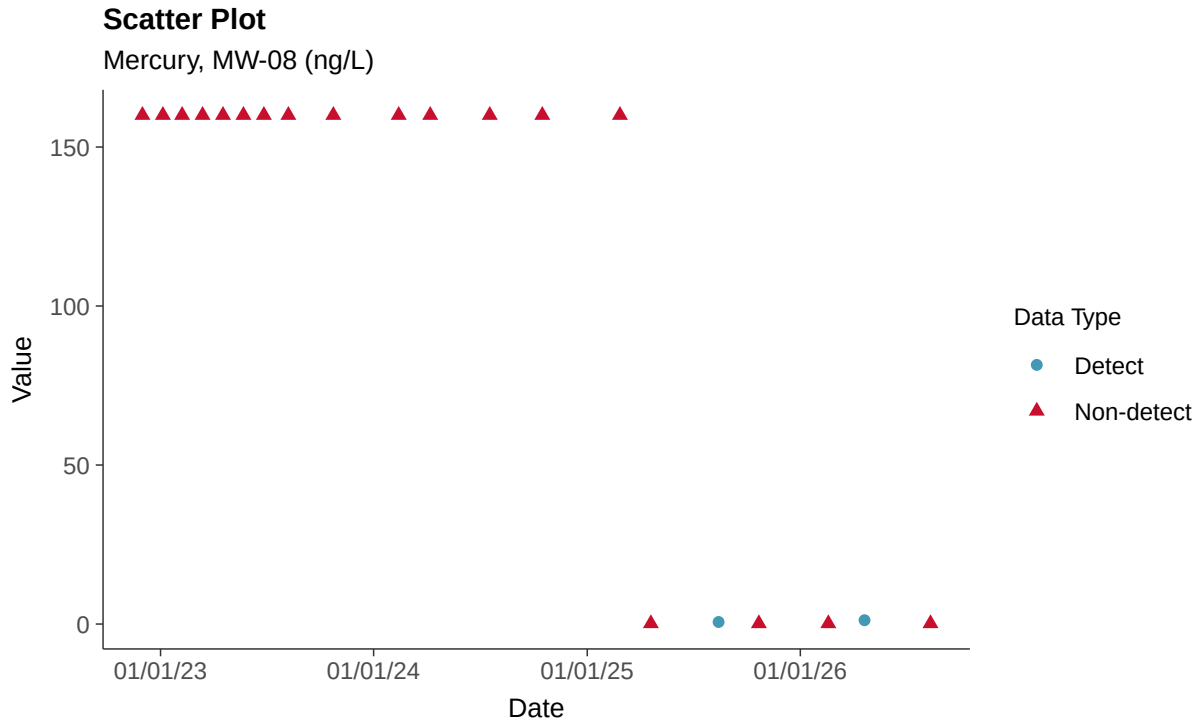
Trend Regression: Piecewise Linear-Linear-Linear

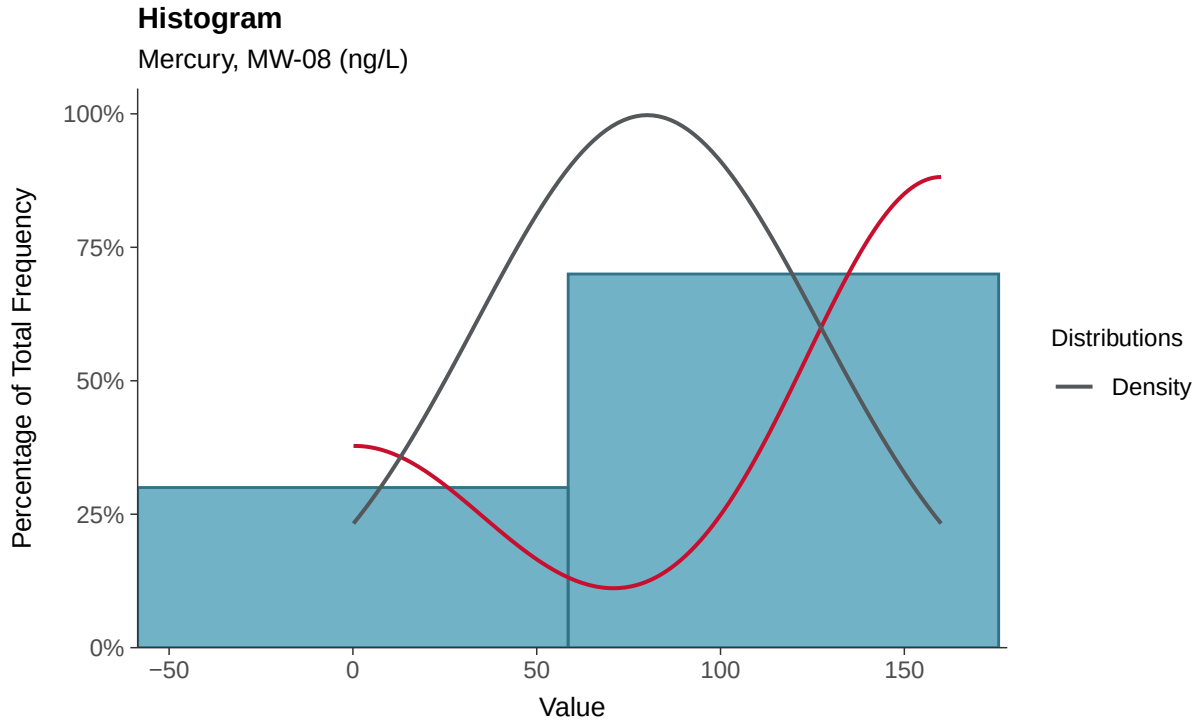
Lithium, MW-08 (mg/L)



Appendix IV: Mercury, MW-08

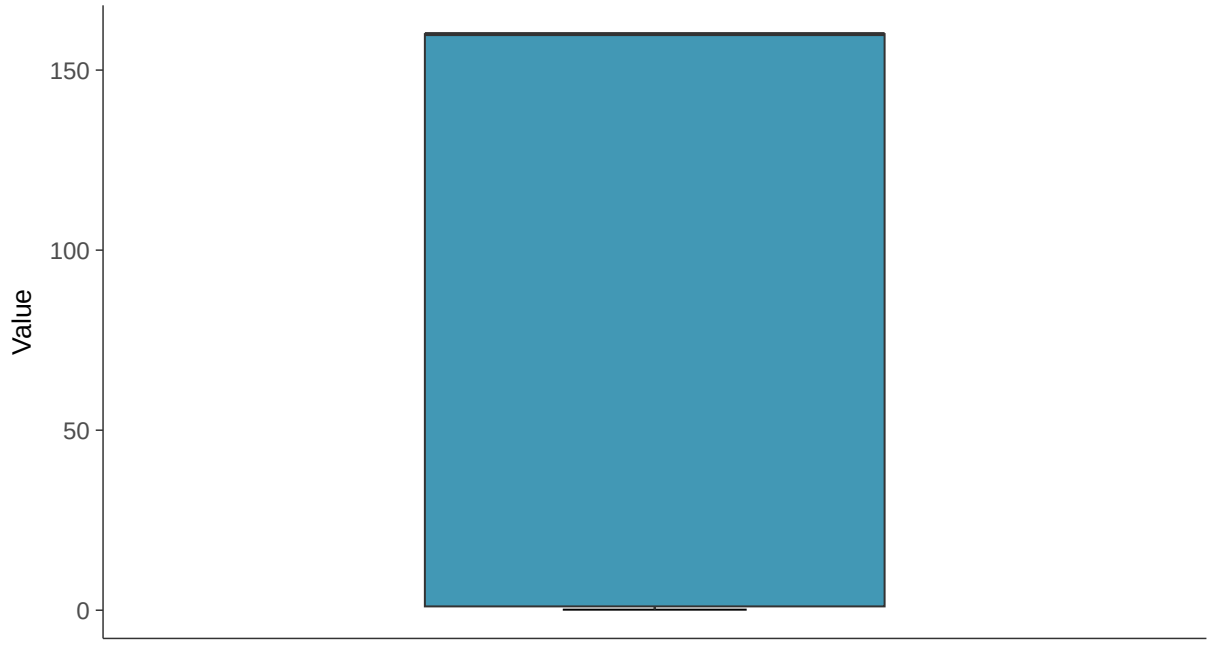
ID: 18_1_4_117





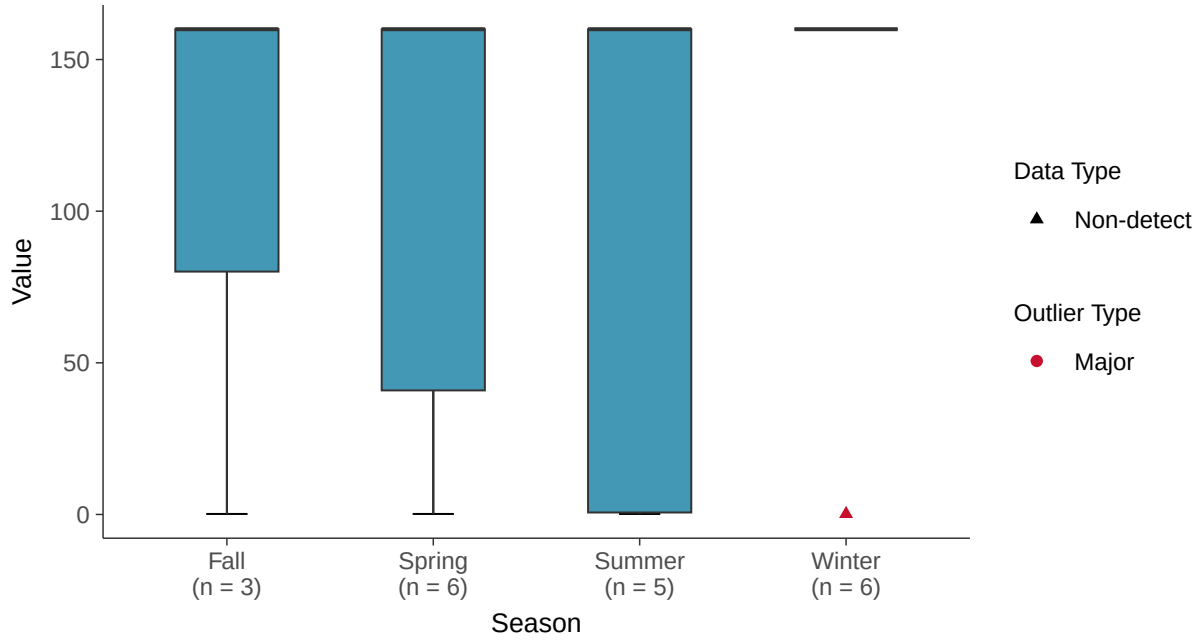
Boxplot

Mercury, MW-08 (ng/L)



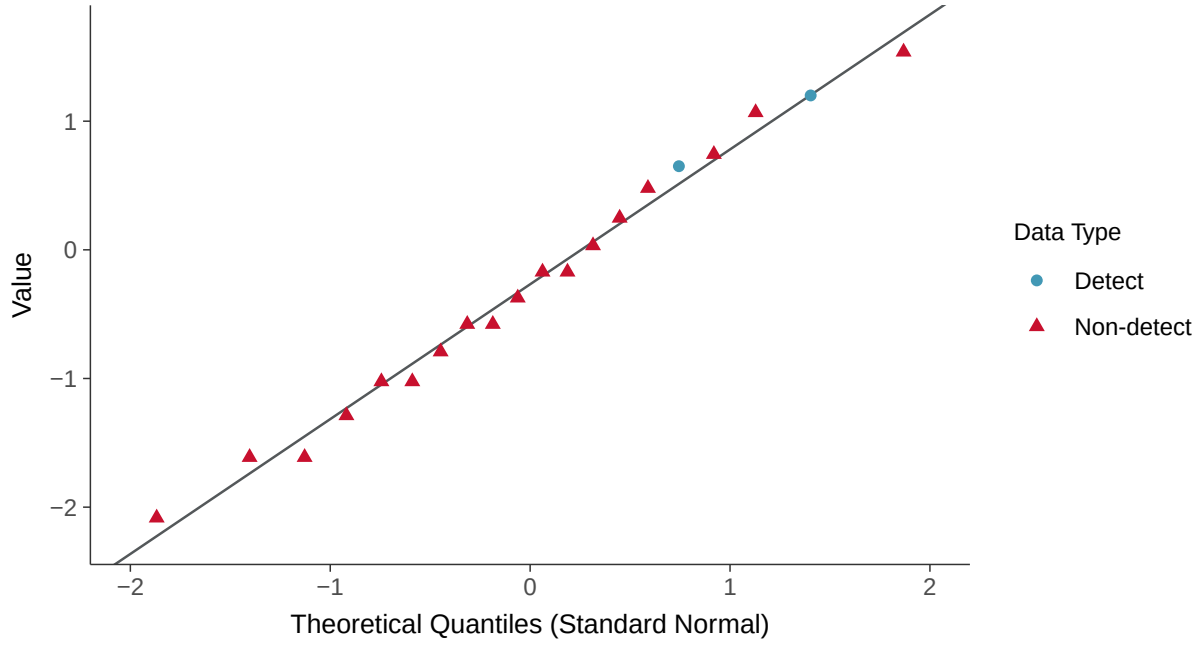
Boxplot by Season

Mercury, MW-08 (ng/L)



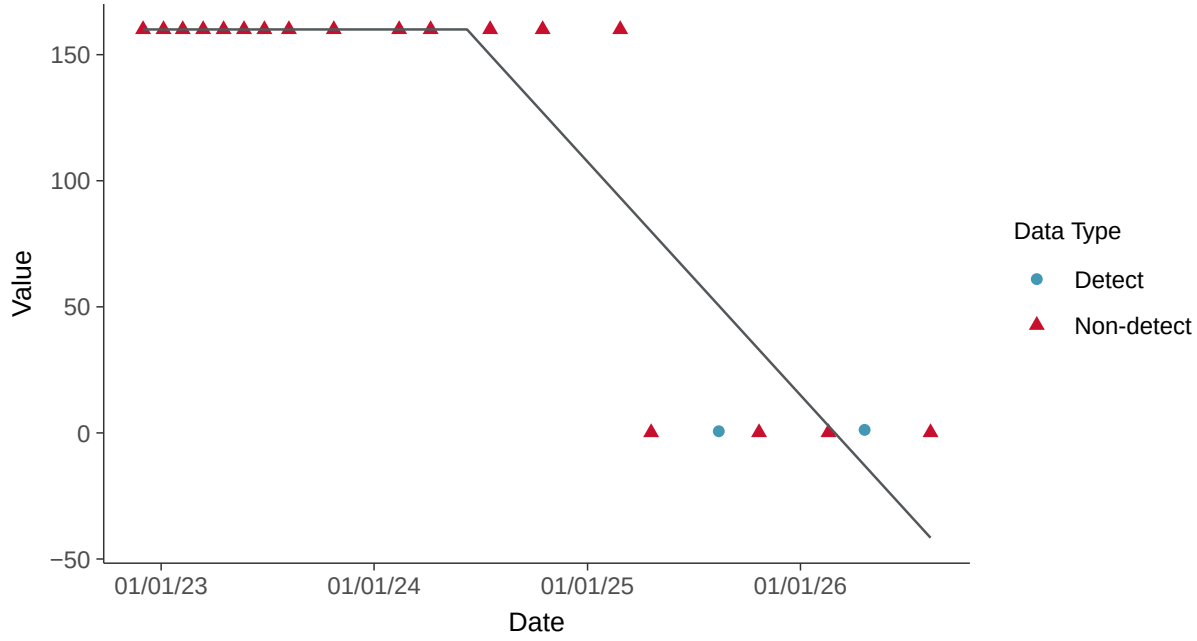
Normal Q-Q plot using ROS Imputed Estimates

Mercury, MW-08 (ng/L)



Trend Regression: Piecewise Linear-Linear

Mercury, MW-08 (ng/L)

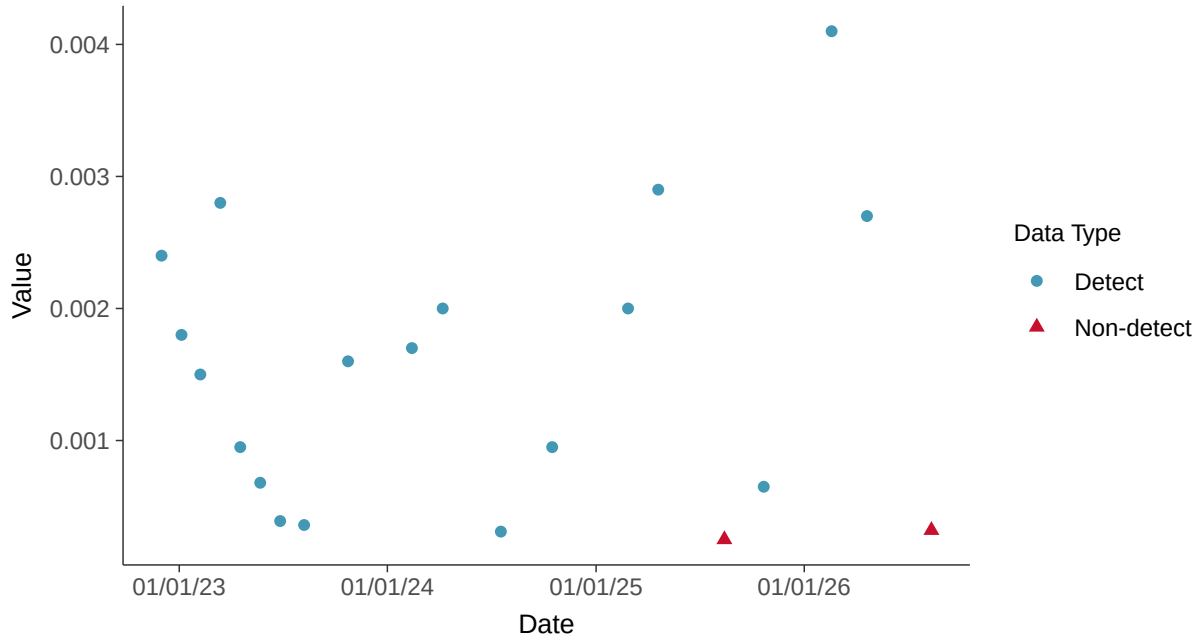


Appendix IV: Molybdenum, MW-08

ID: 18_1_4_118

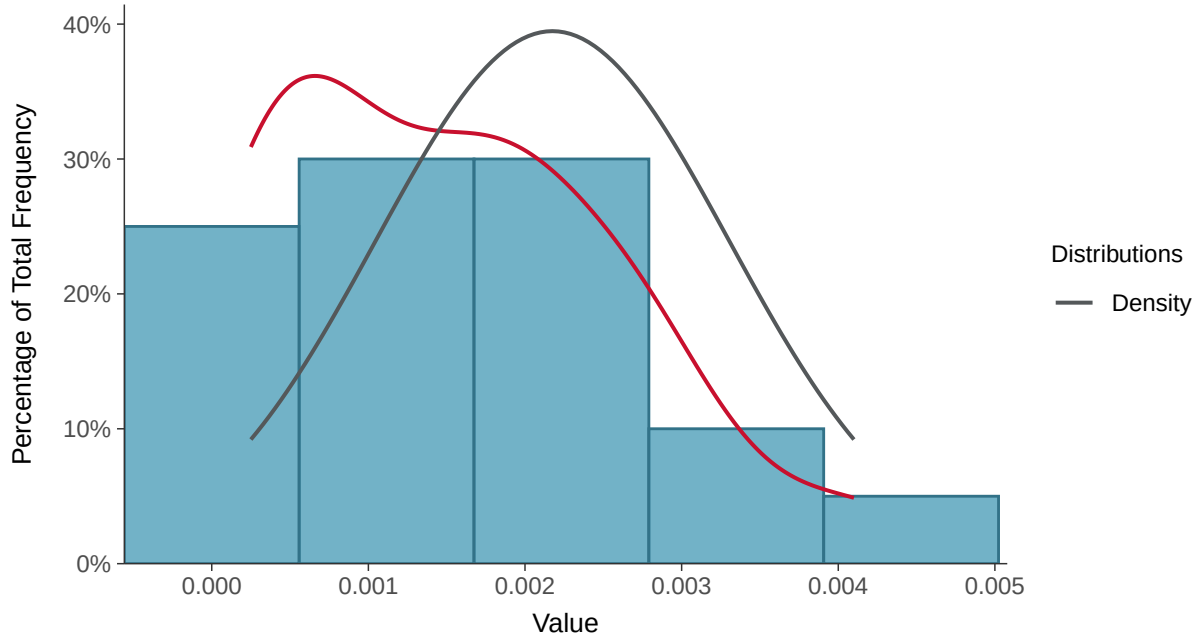
Scatter Plot

Molybdenum, MW-08 (mg/L)



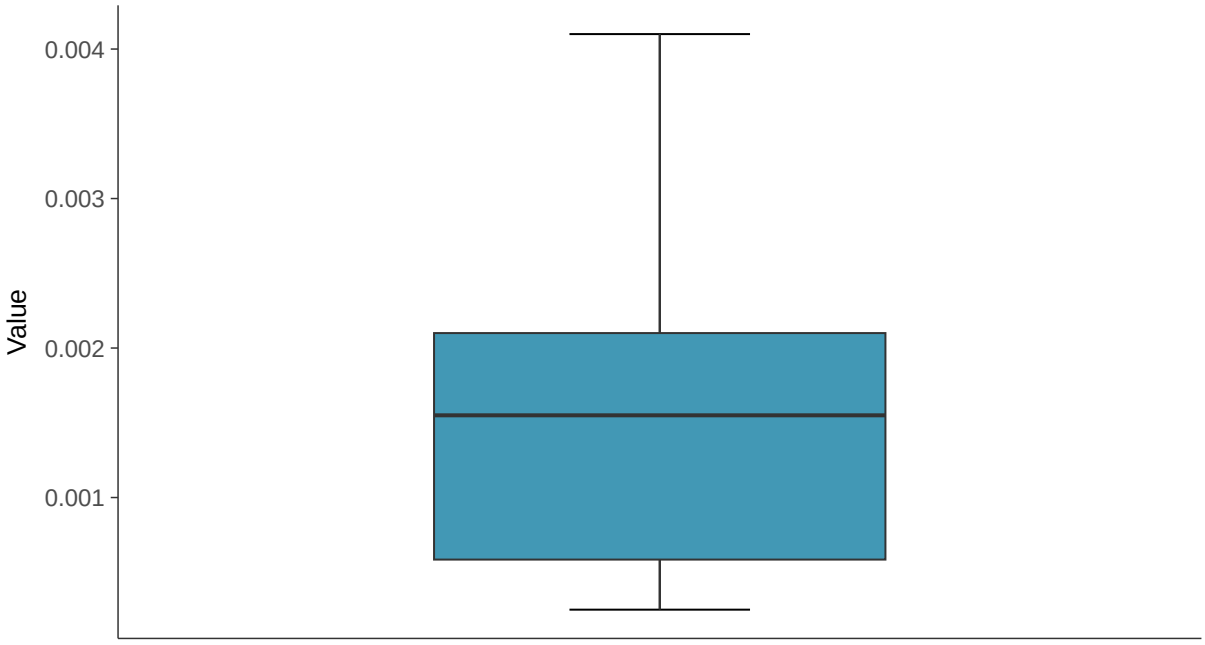
Histogram

Molybdenum, MW-08 (mg/L)



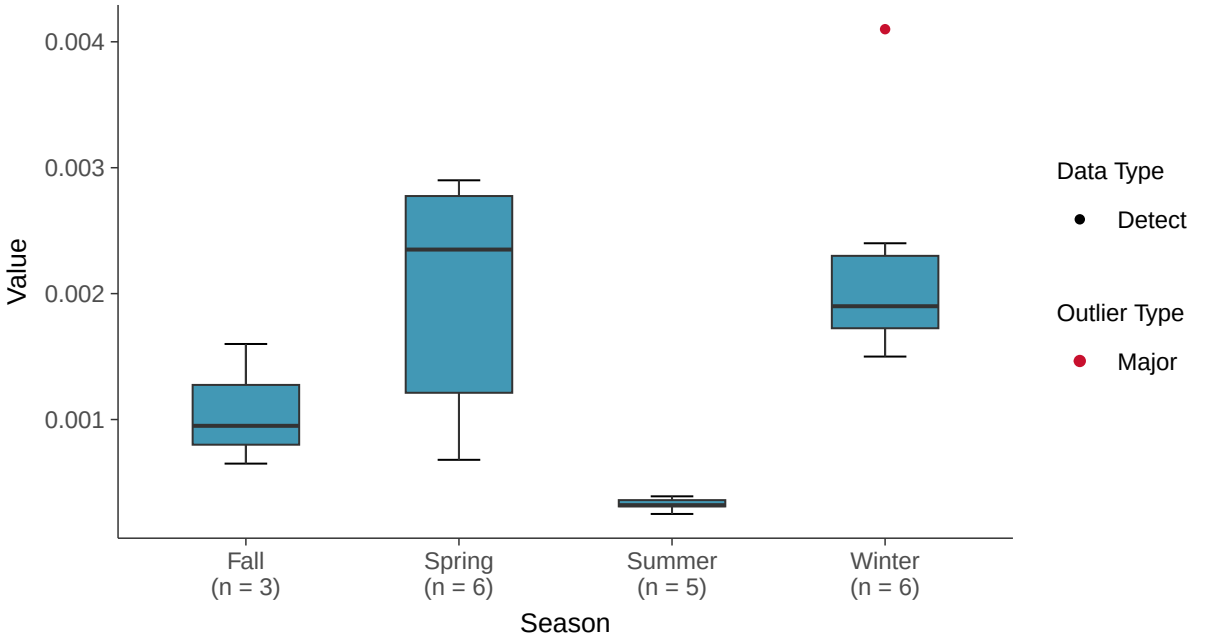
Boxplot

Molybdenum, MW-08 (mg/L)



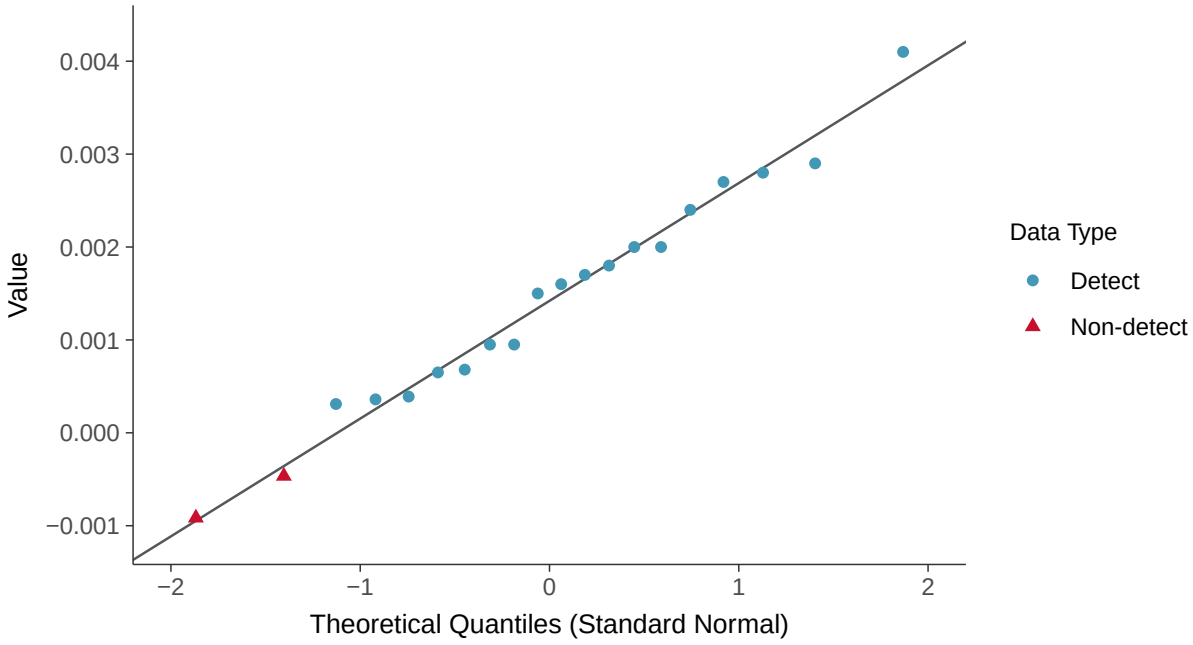
Boxplot by Season

Molybdenum, MW-08 (mg/L)



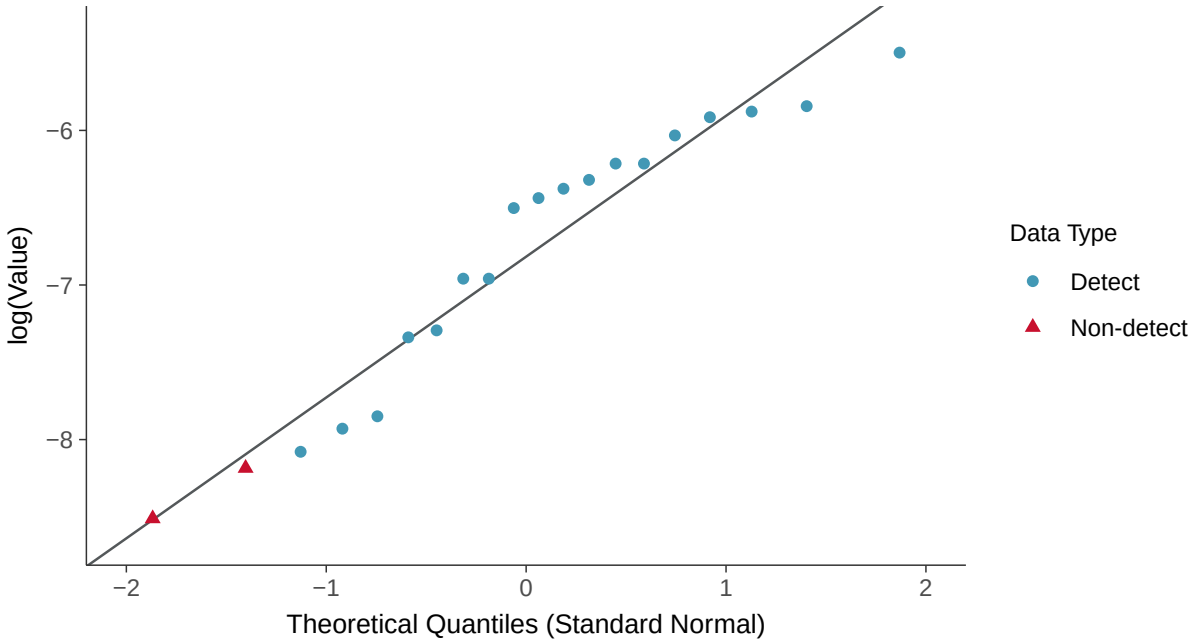
Normal Q-Q plot using ROS Imputed Estimates

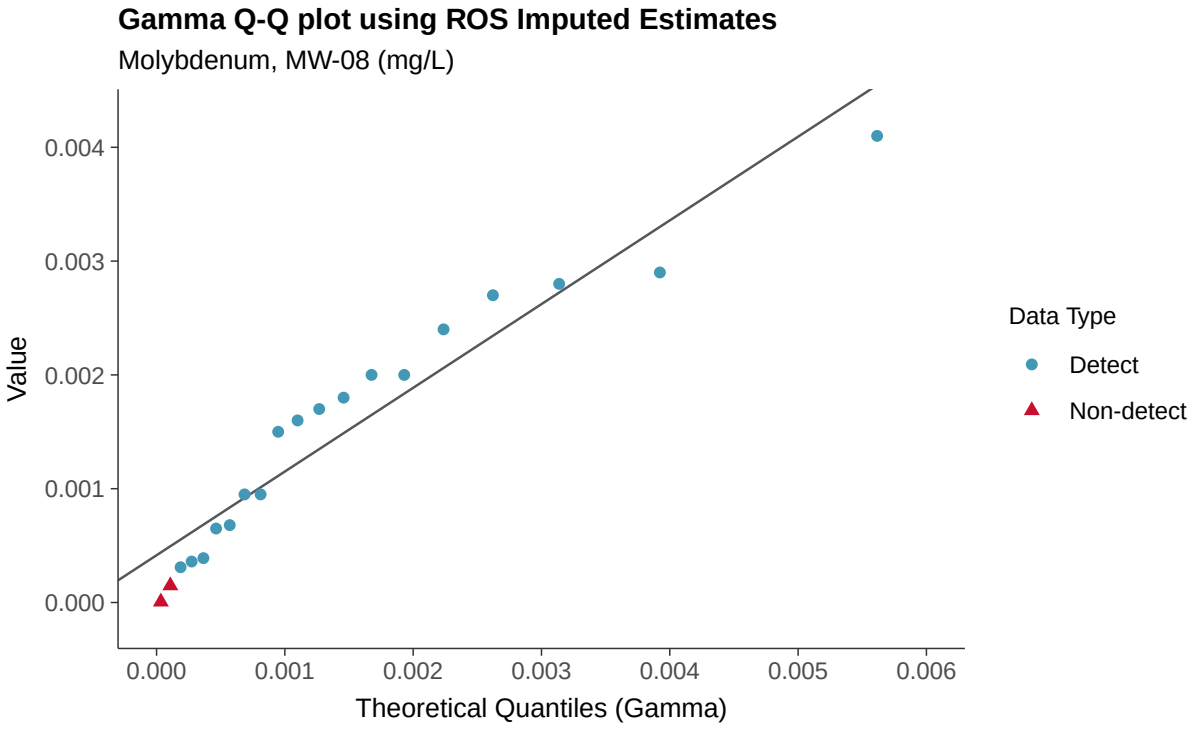
Molybdenum, MW-08 (mg/L)

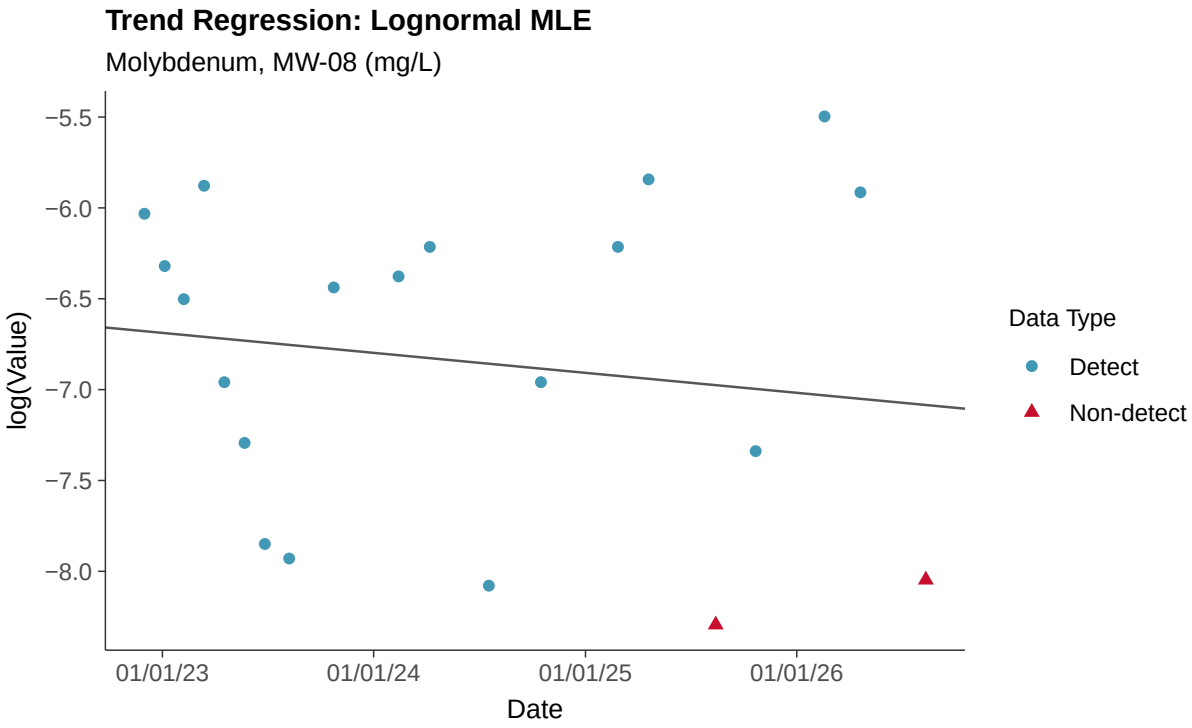


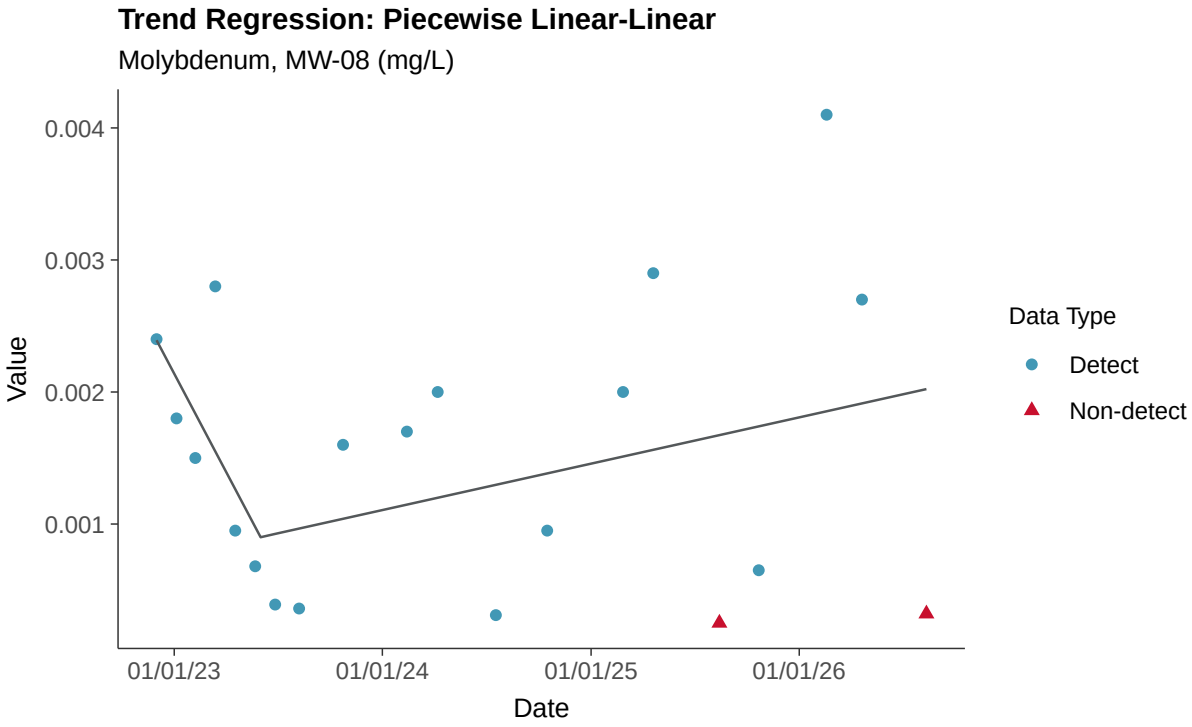
Lognormal Q-Q plot using ROS Imputed Estimates

Molybdenum, MW-08 (mg/L)




Gamma Q-Q plot using ROS Imputed Estimates
Molybdenum, MW-08 (mg/L)
Value
0.004
0.003
0.002
0.001
0.000
0.000
0.001
0.002
0.003
0.004
0.005
0.006
Theoretical Quantiles (Gamma)
Data Type
Detect
Non-detect


Trend Regression: Lognormal MLE
Molybdenum, MW-08 (mg/L)
log(Value)
−5.5
−6.0
−6.5
−7.0
−7.5
−8.0
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect
Non-detect

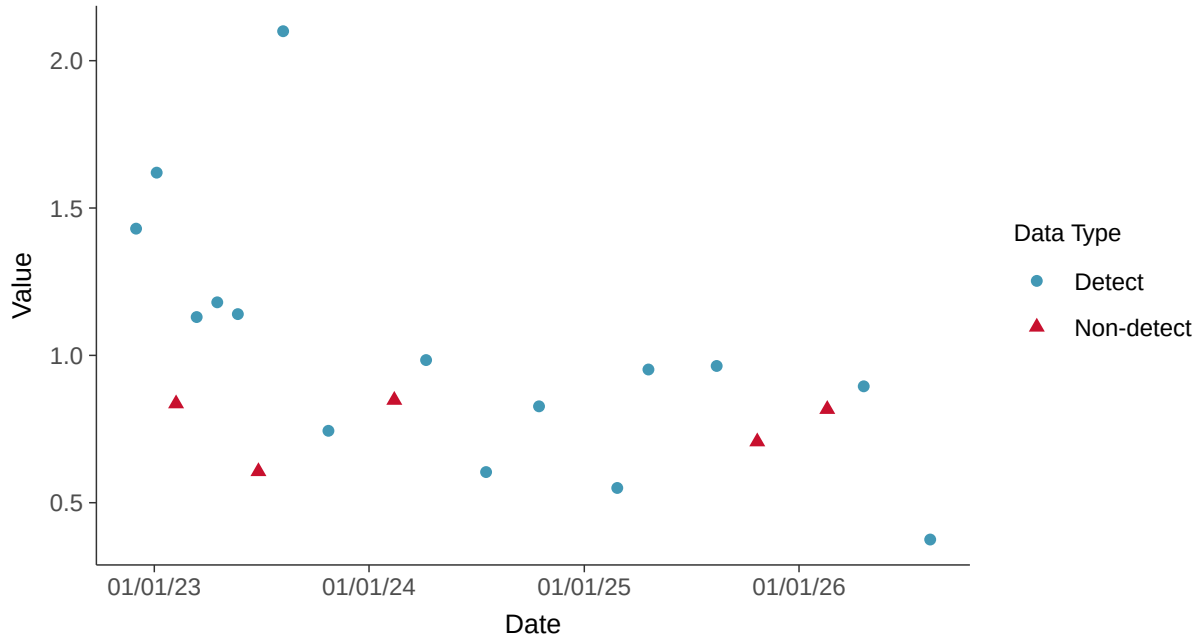

Trend Regression: Piecewise Linear-Linear
Molybdenum, MW-08 (mg/L)
0.004
0.003
0.002
0.001
Value
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect
Non-detect

Appendix IV: Radium 226 and 228, MW-08

ID: 18_1_4_121

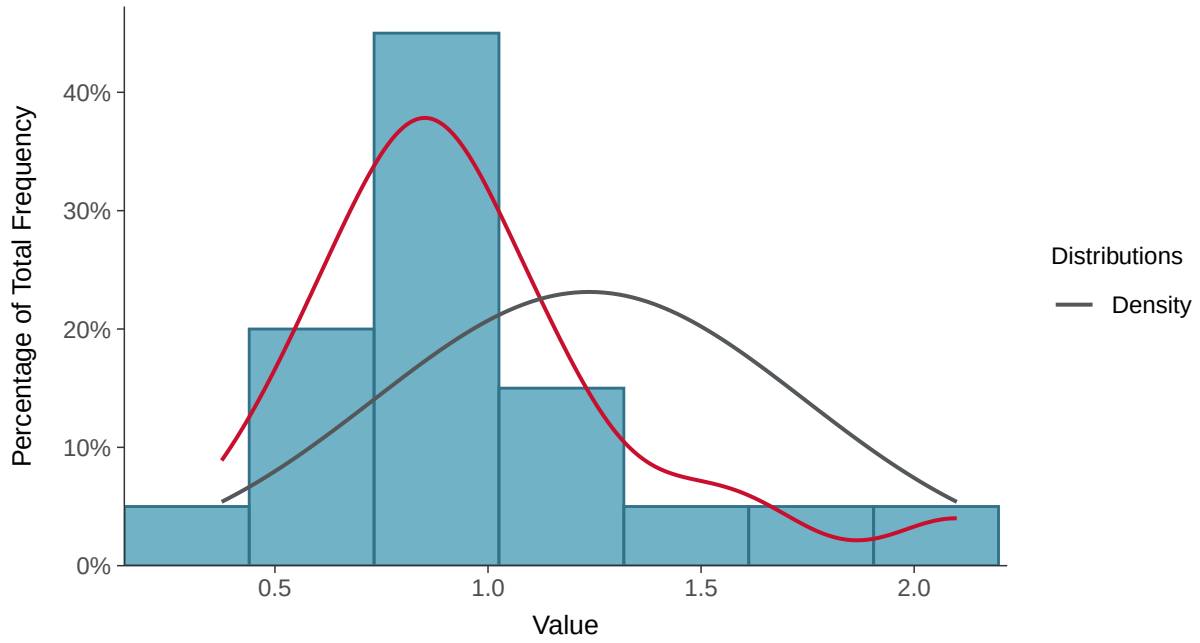
Scatter Plot

Radium 226 and 228, MW-08 (pCi/L)



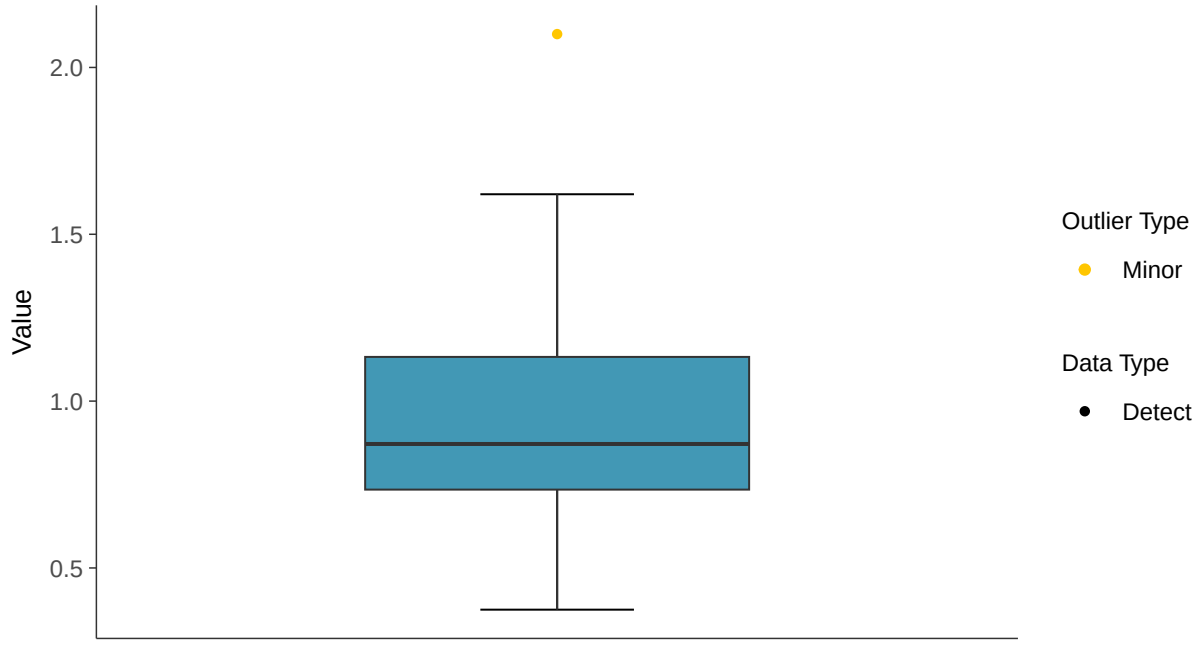
Histogram

Radium 226 and 228, MW-08 (pCi/L)



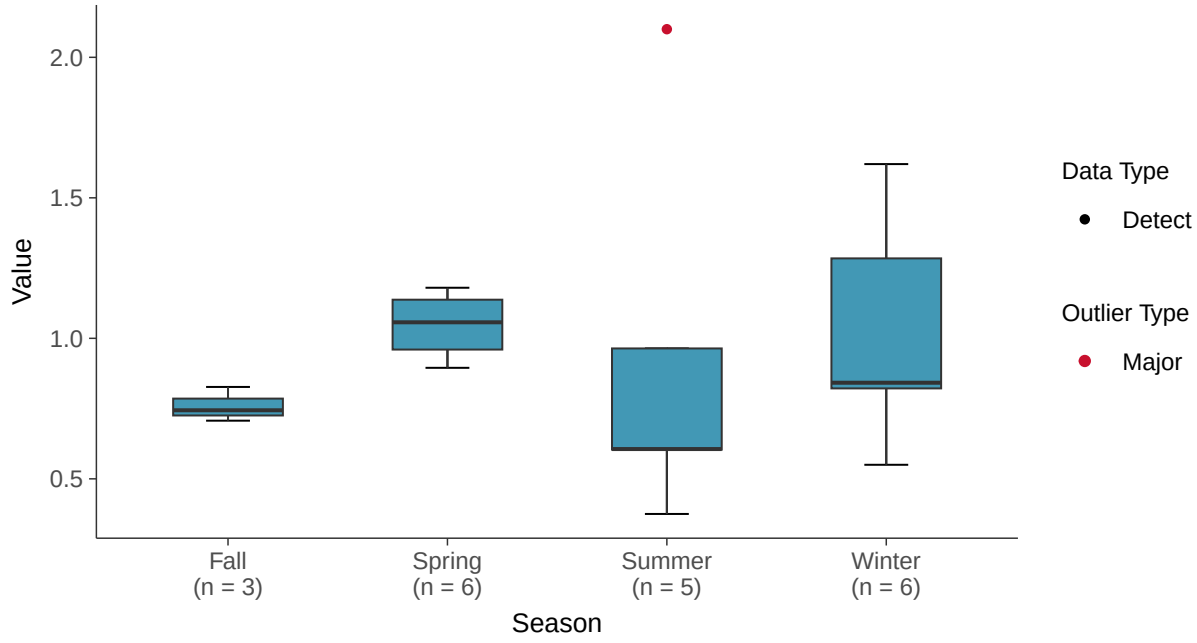
Boxplot

Radium 226 and 228, MW-08 (pCi/L)



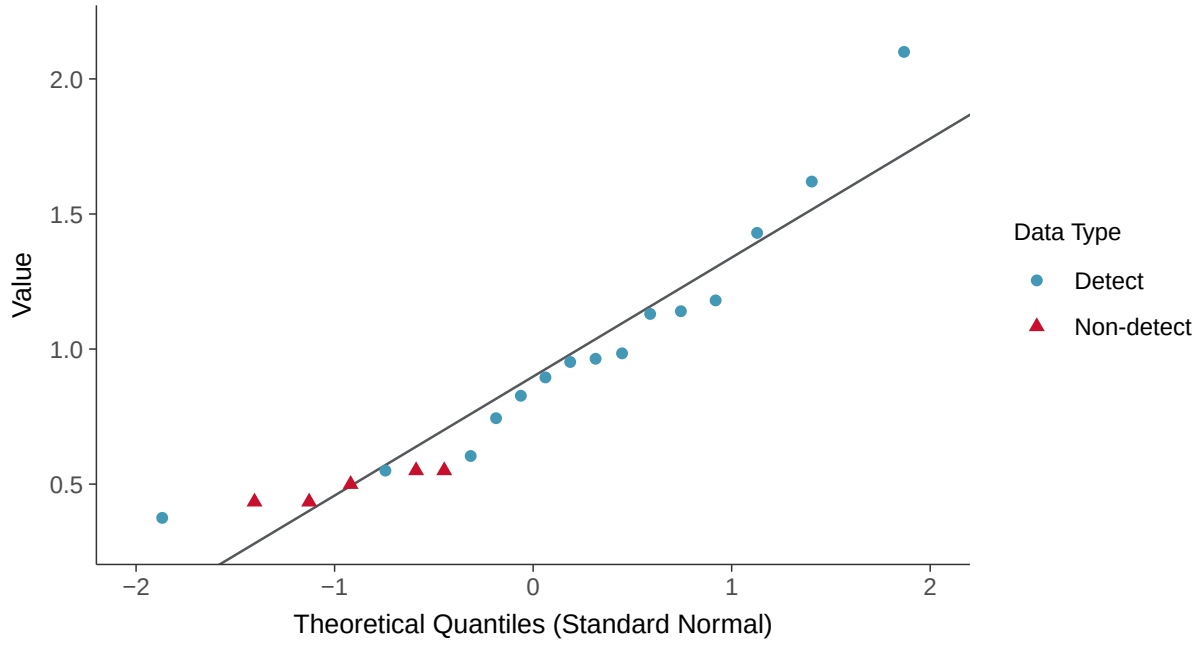
Boxplot by Season

Radium 226 and 228, MW-08 (pCi/L)



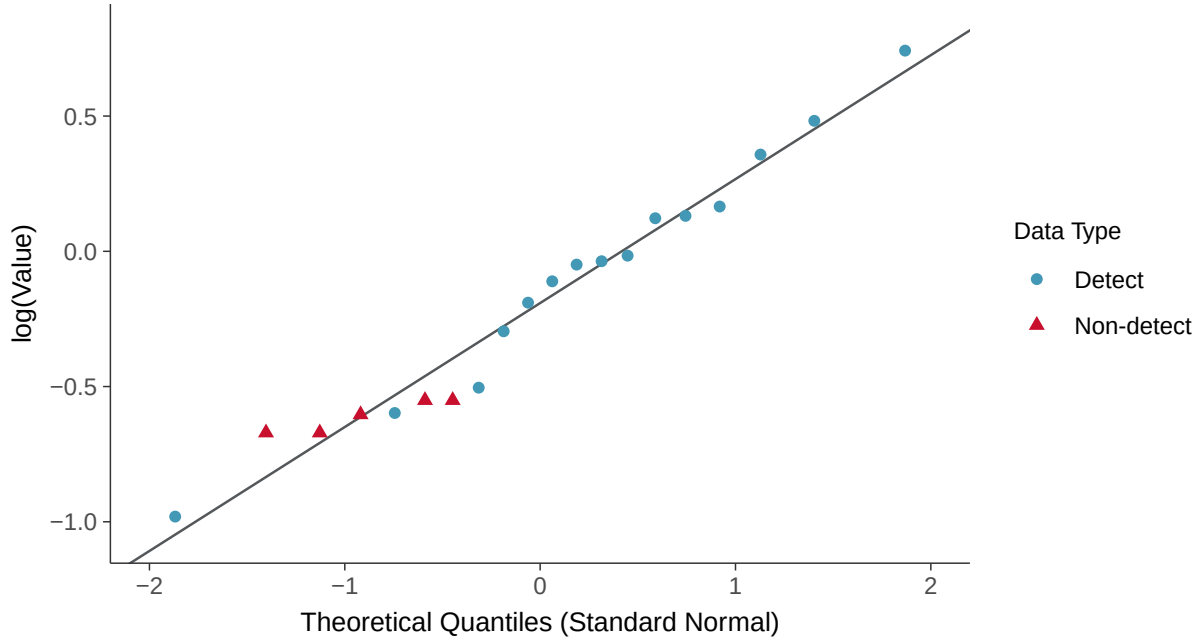
Normal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-08 (pCi/L)



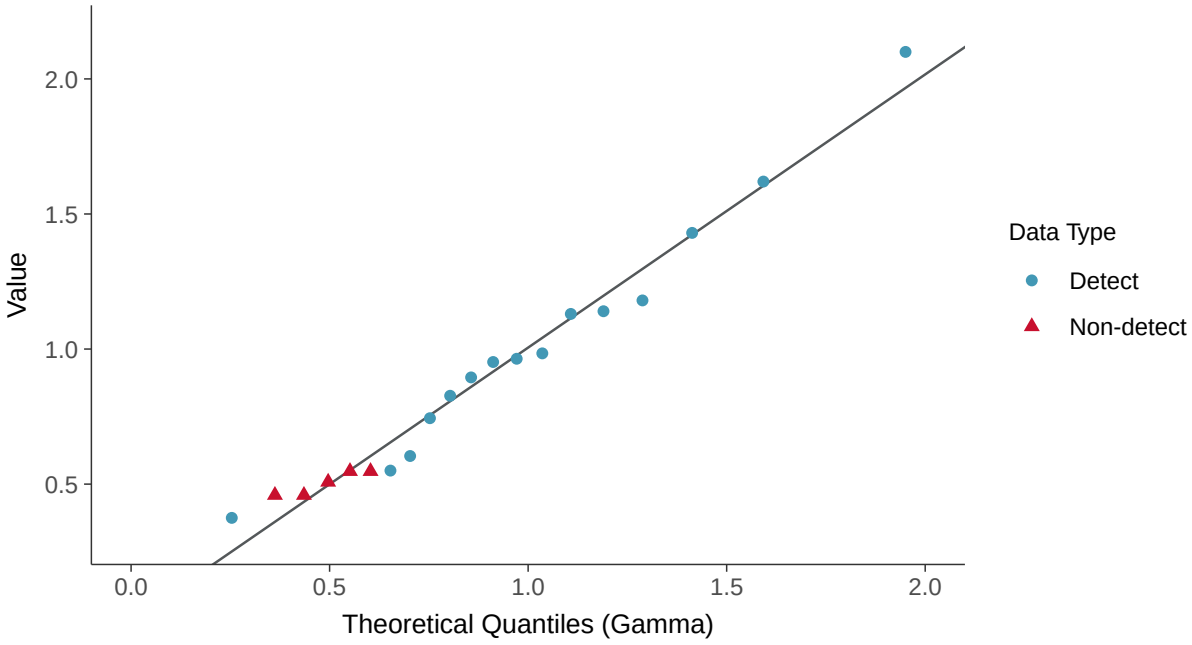
Lognormal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-08 (pCi/L)



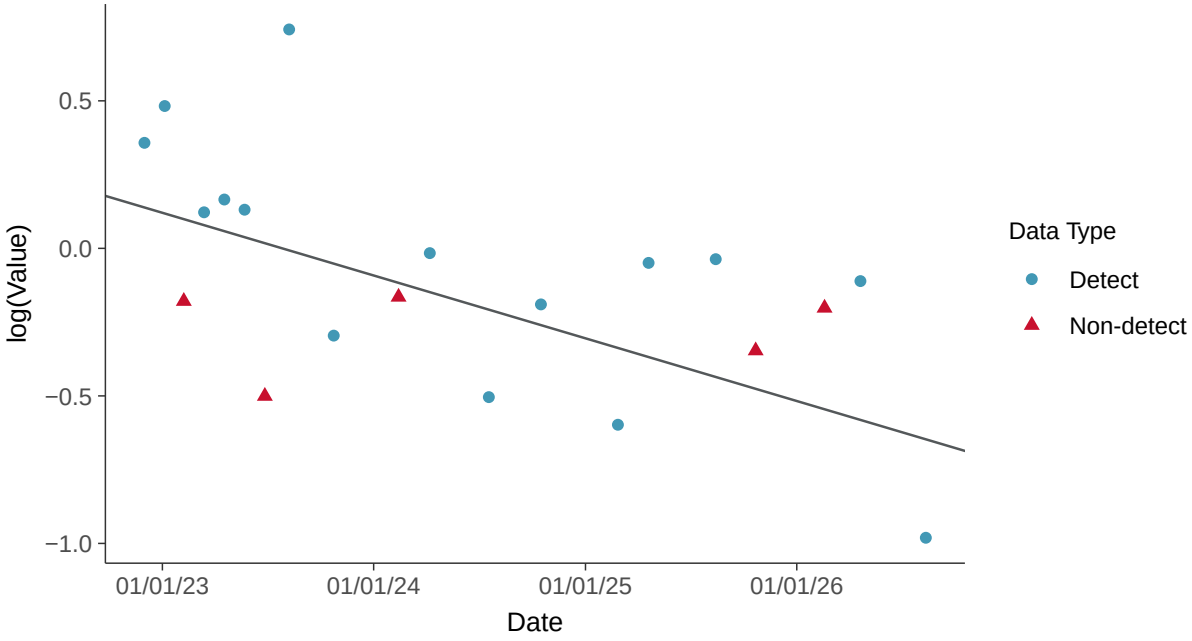
Gamma Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-08 (pCi/L)



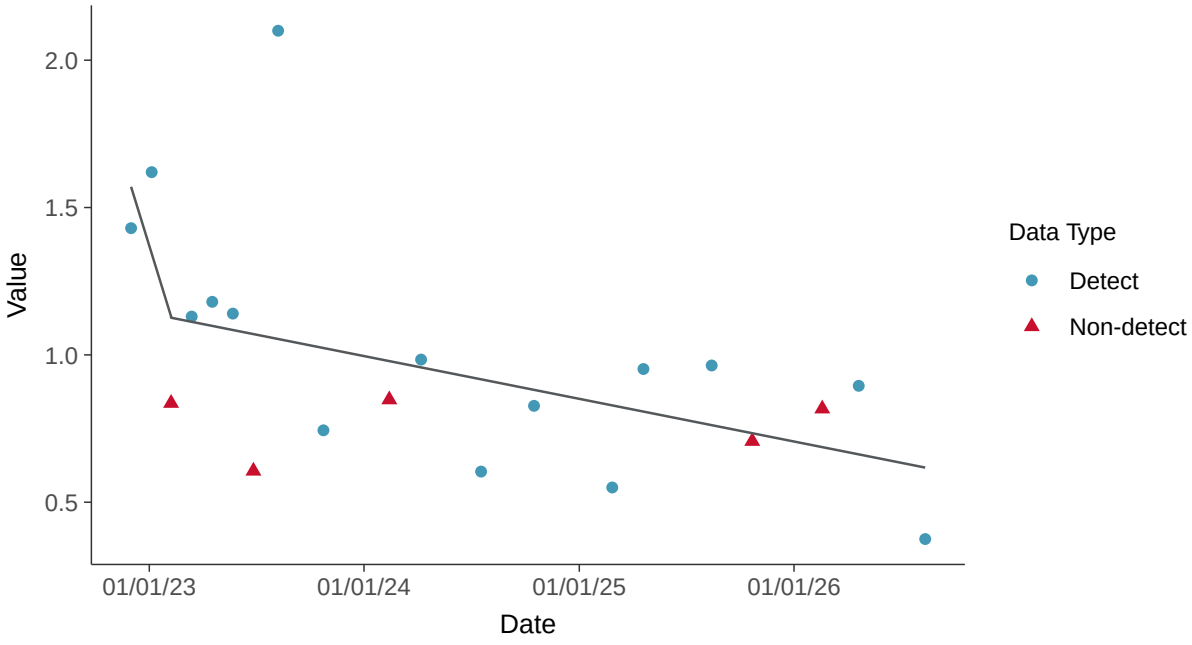
Trend Regression: Lognormal MLE

Radium 226 and 228, MW-08 (pCi/L)



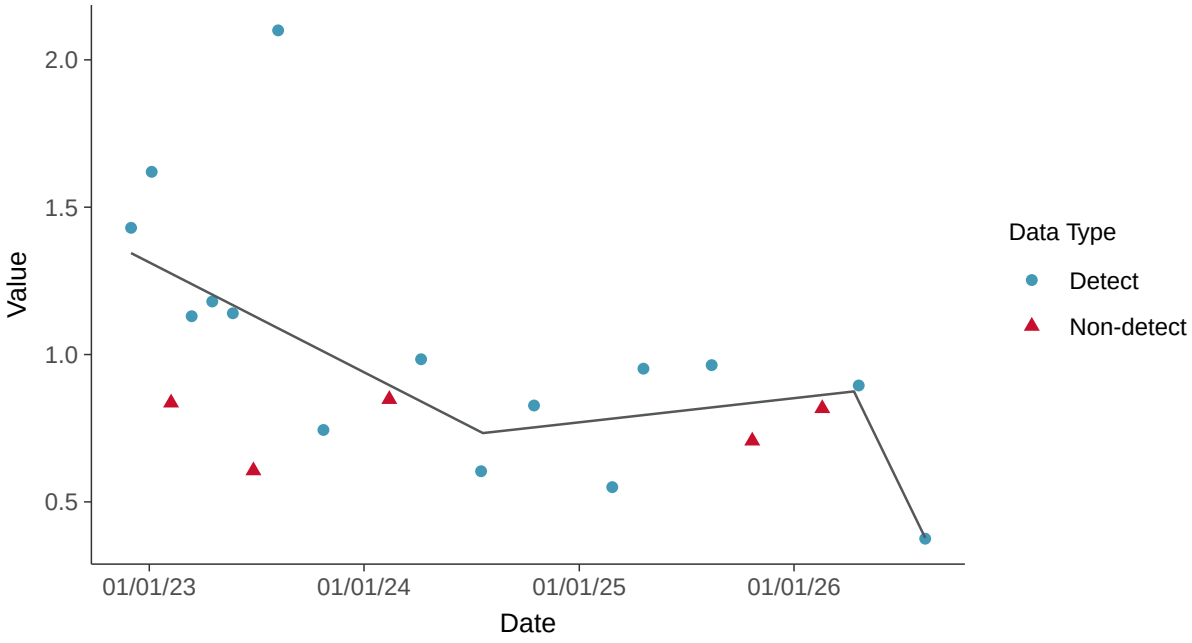
Trend Regression: Piecewise Linear-Linear

Radium 226 and 228, MW-08 (pCi/L)



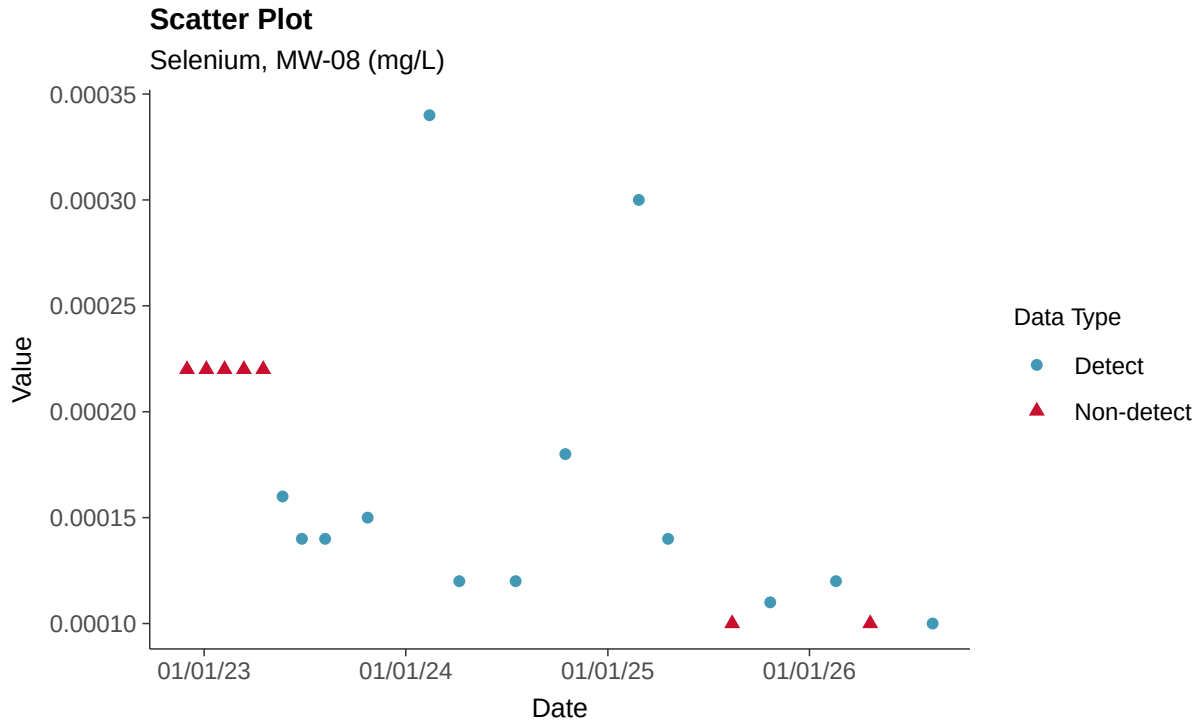
Trend Regression: Piecewise Linear-Linear-Linear

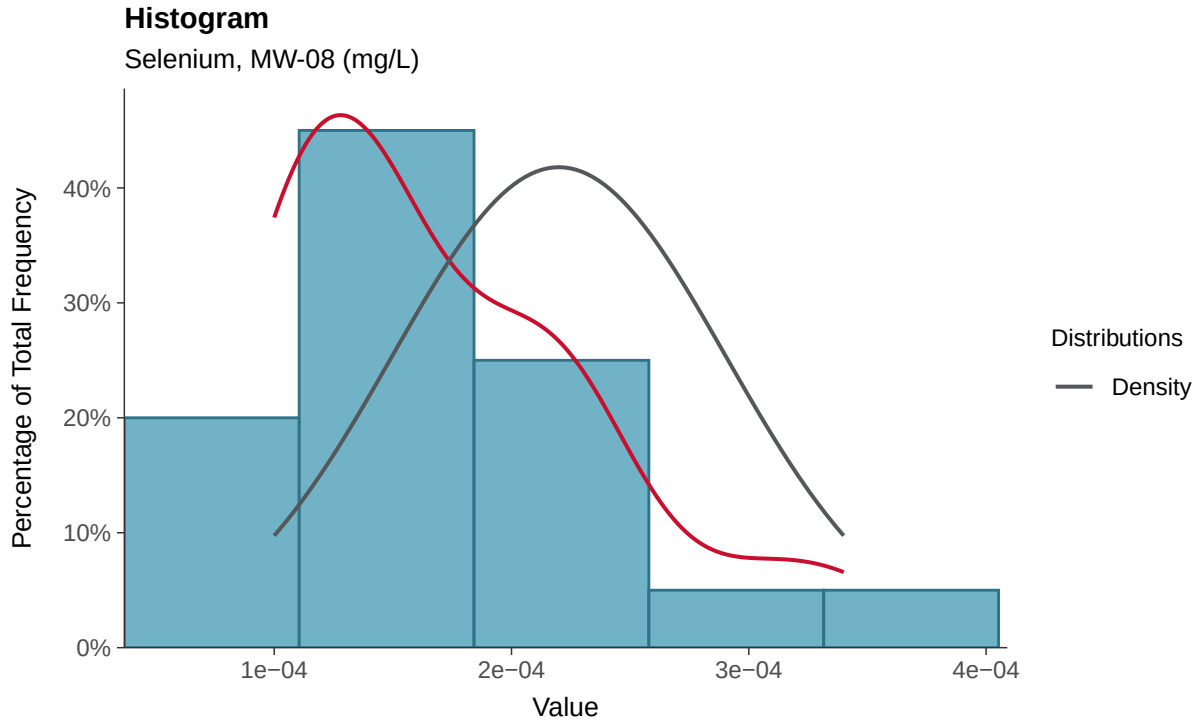
Radium 226 and 228, MW-08 (pCi/L)



Appendix IV: Selenium, MW-08

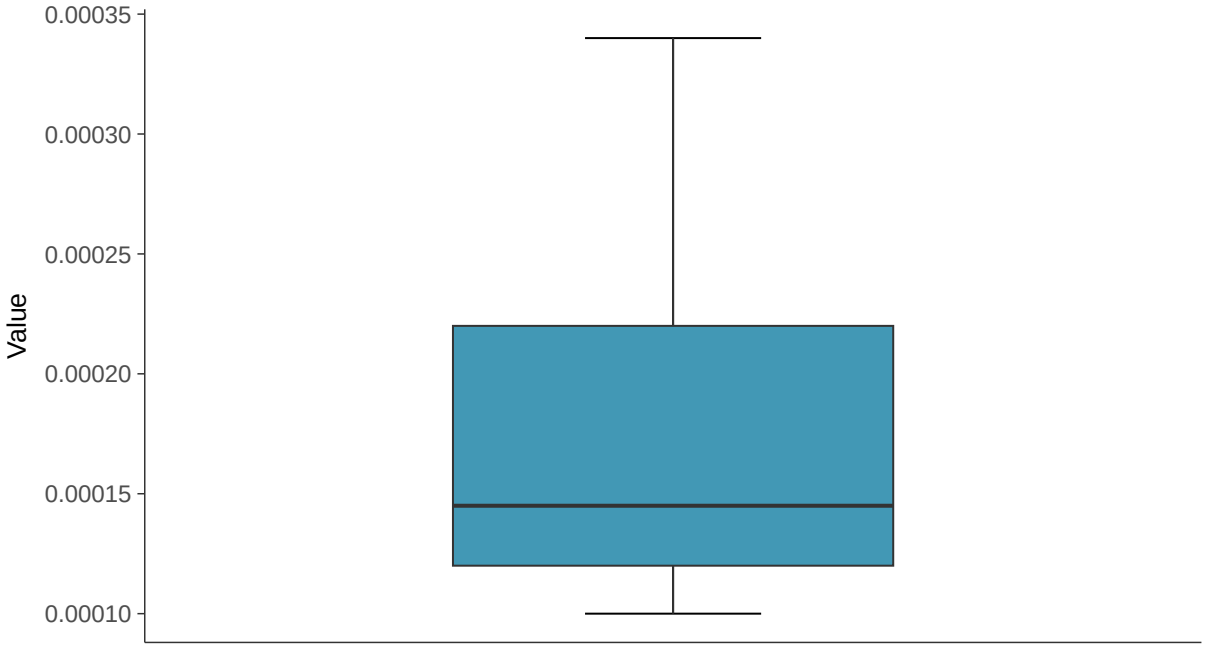
ID: 18_1_4_122





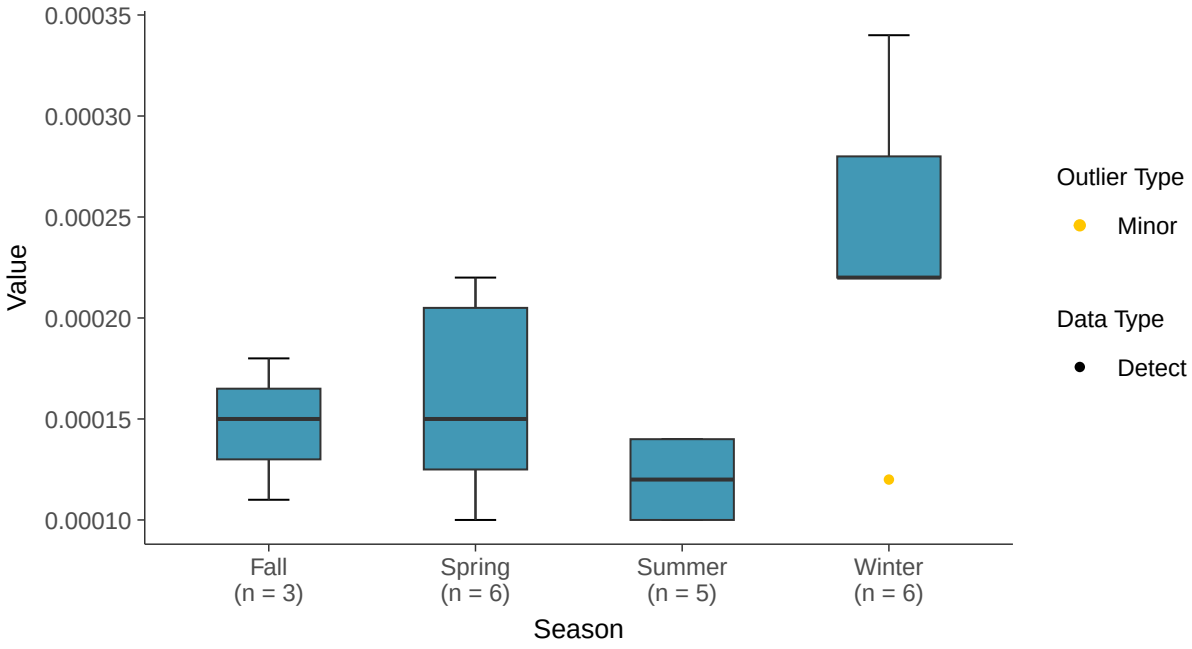
Boxplot

Selenium, MW-08 (mg/L)



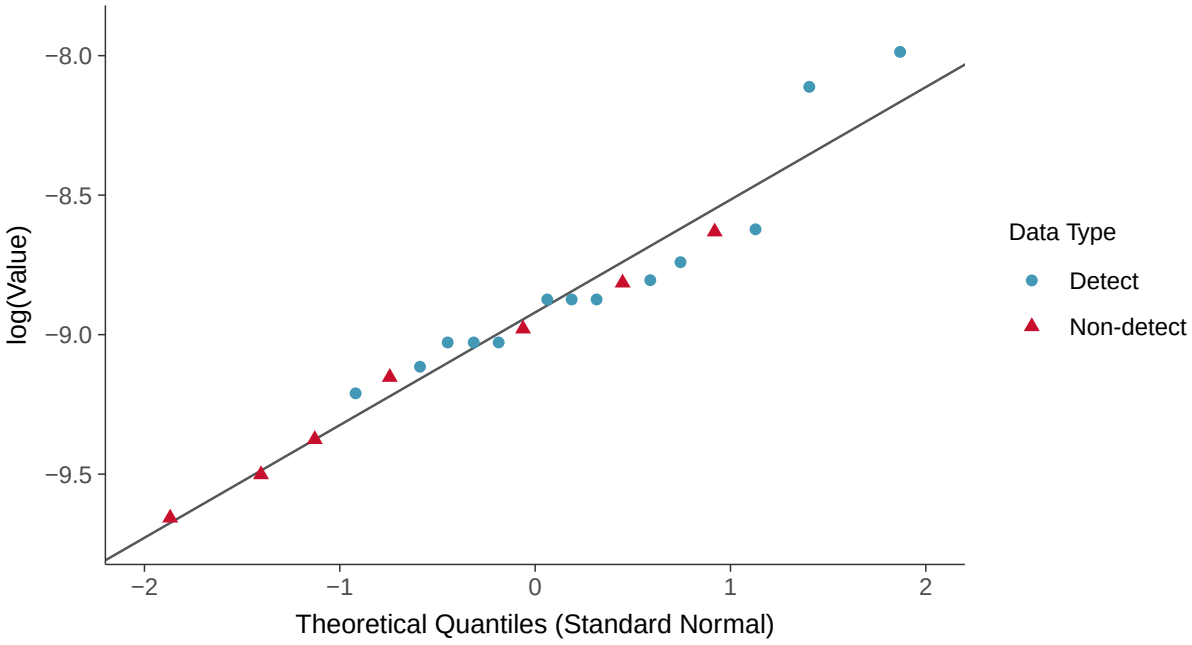
Boxplot by Season

Selenium, MW-08 (mg/L)



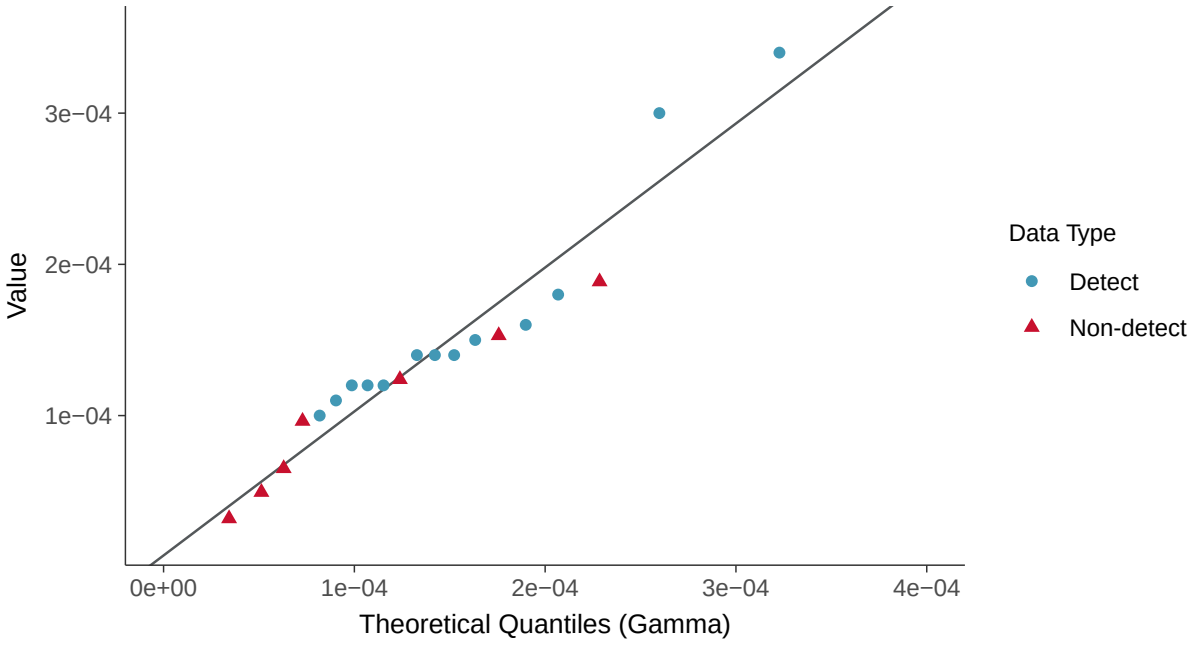
Lognormal Q-Q plot using ROS Imputed Estimates

Selenium, MW-08 (mg/L)



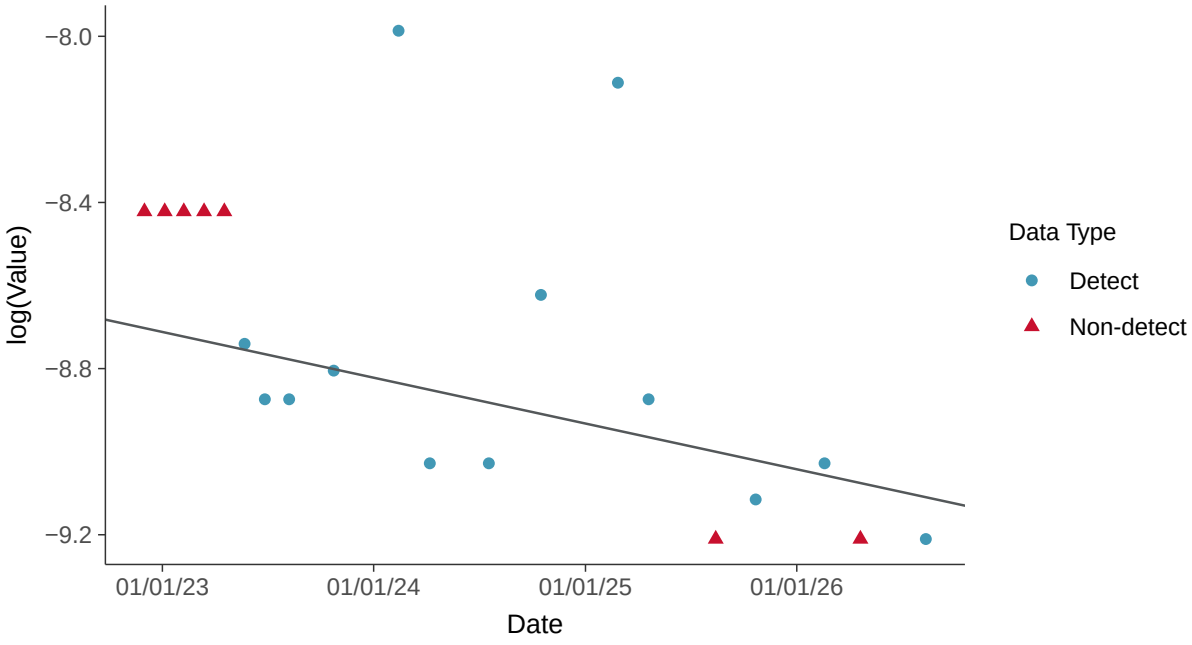
Gamma Q-Q plot using ROS Imputed Estimates

Selenium, MW-08 (mg/L)



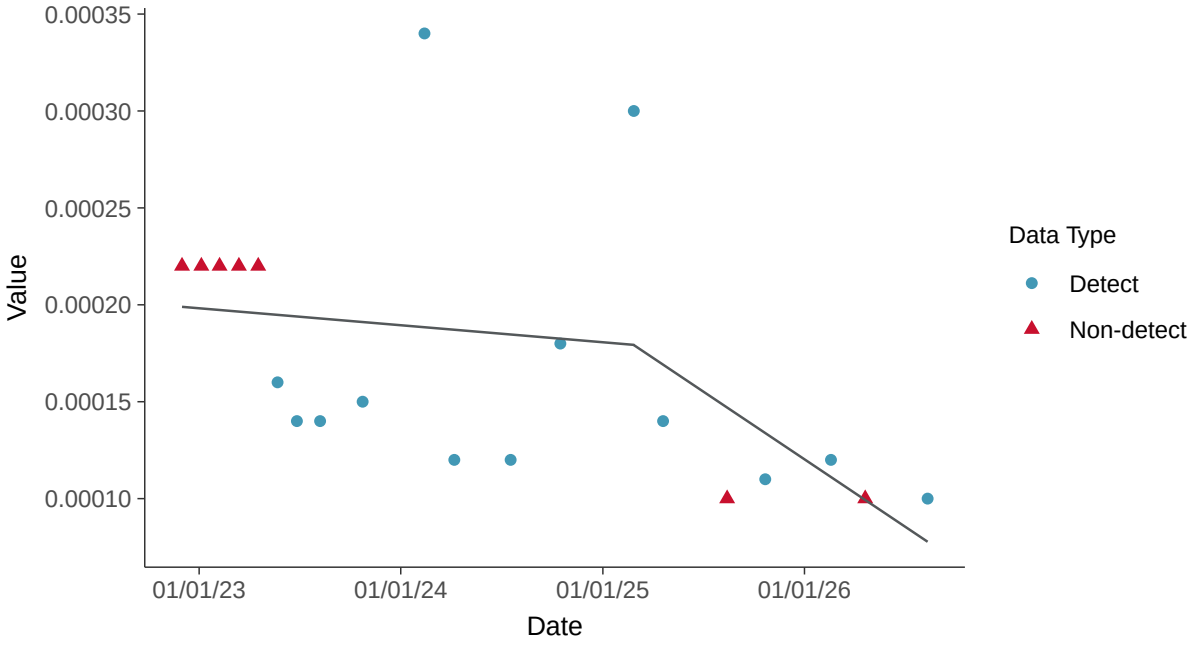
Trend Regression: Lognormal MLE

Selenium, MW-08 (mg/L)



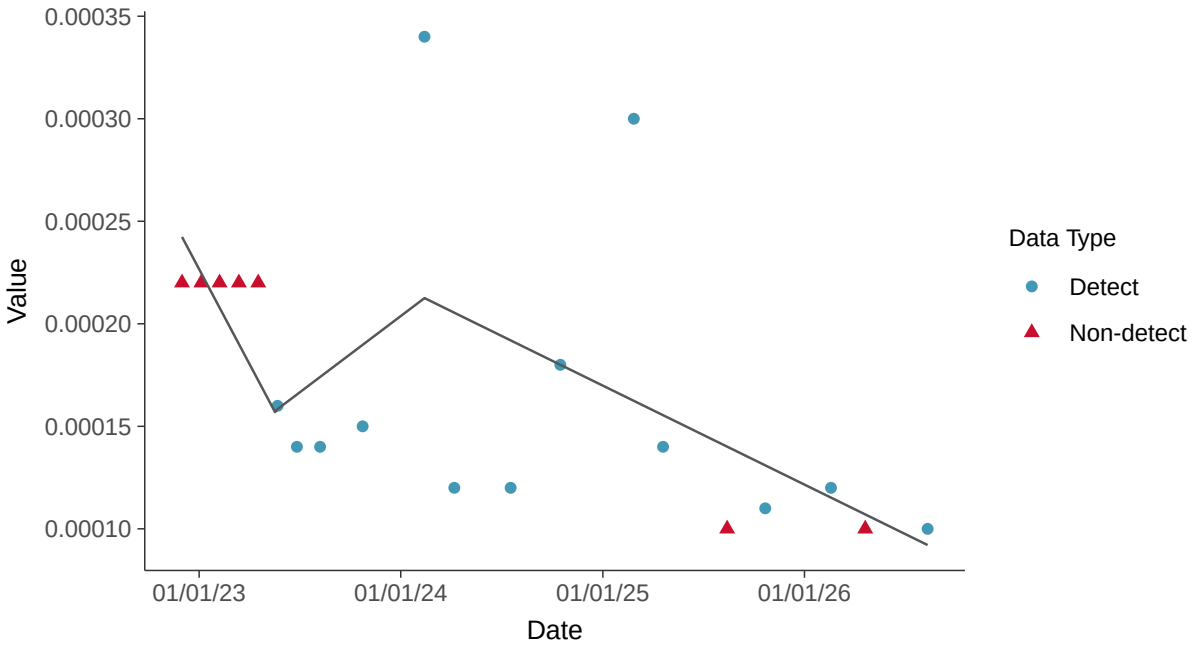
Trend Regression: Piecewise Linear-Linear

Selenium, MW-08 (mg/L)



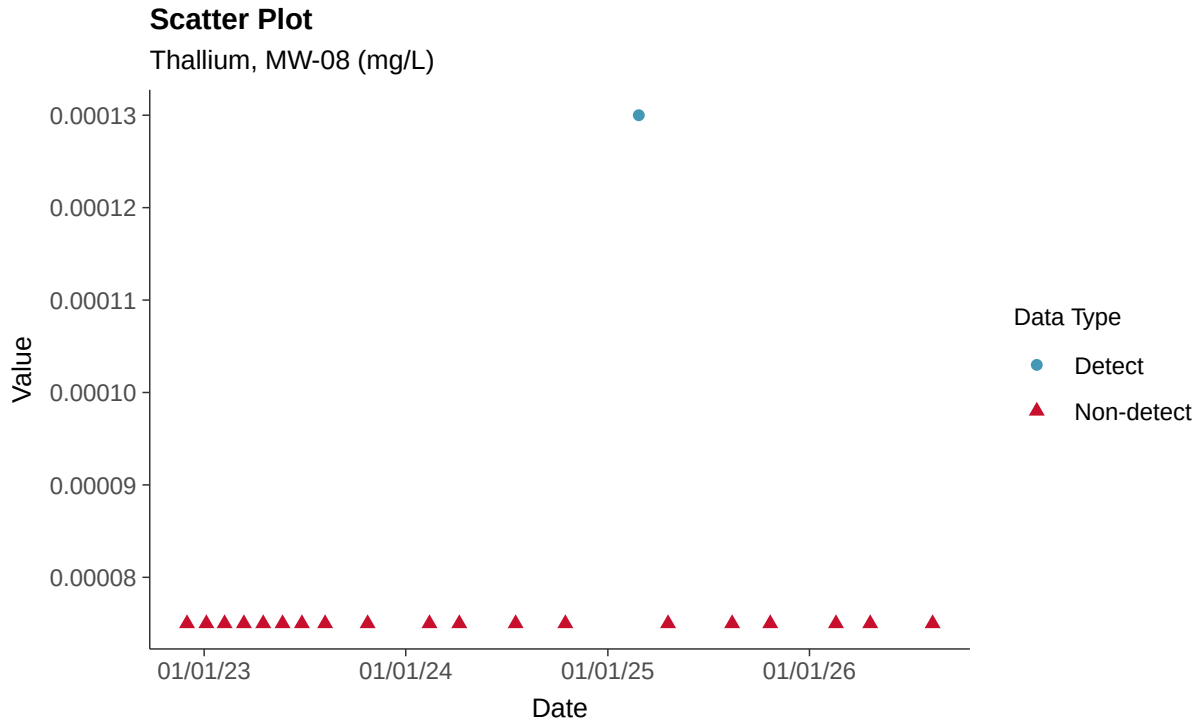
Trend Regression: Piecewise Linear-Linear-Linear

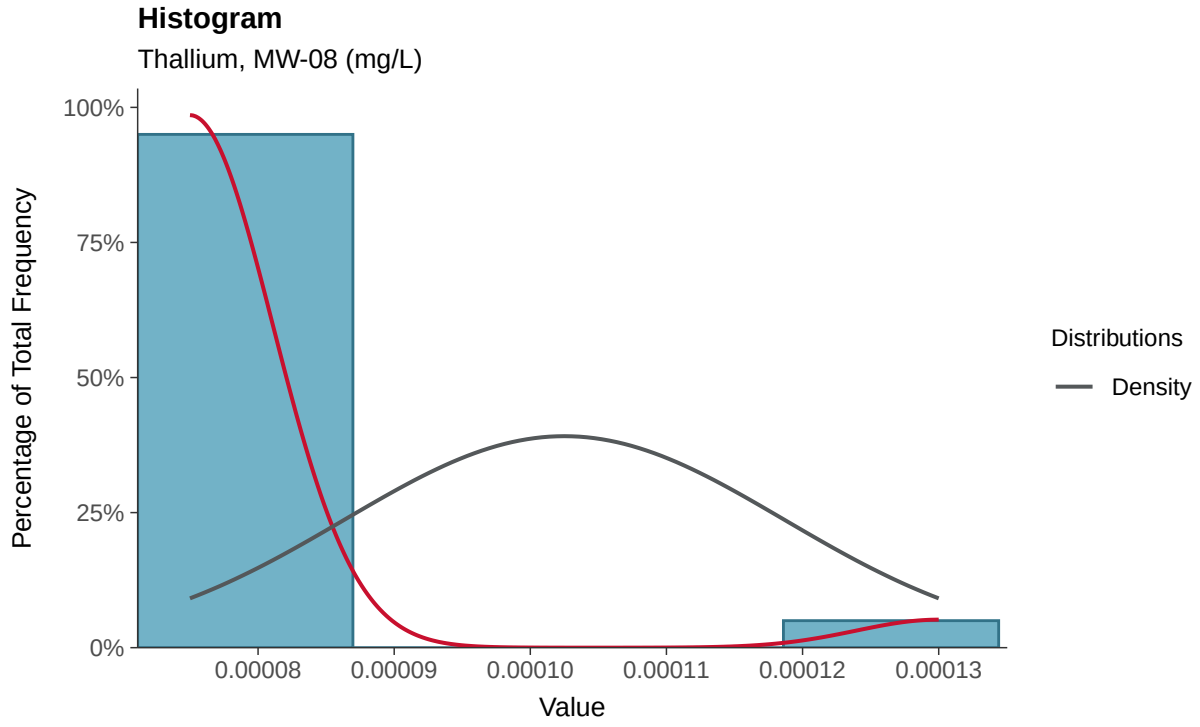
Selenium, MW-08 (mg/L)



Appendix IV: Thallium, MW-08

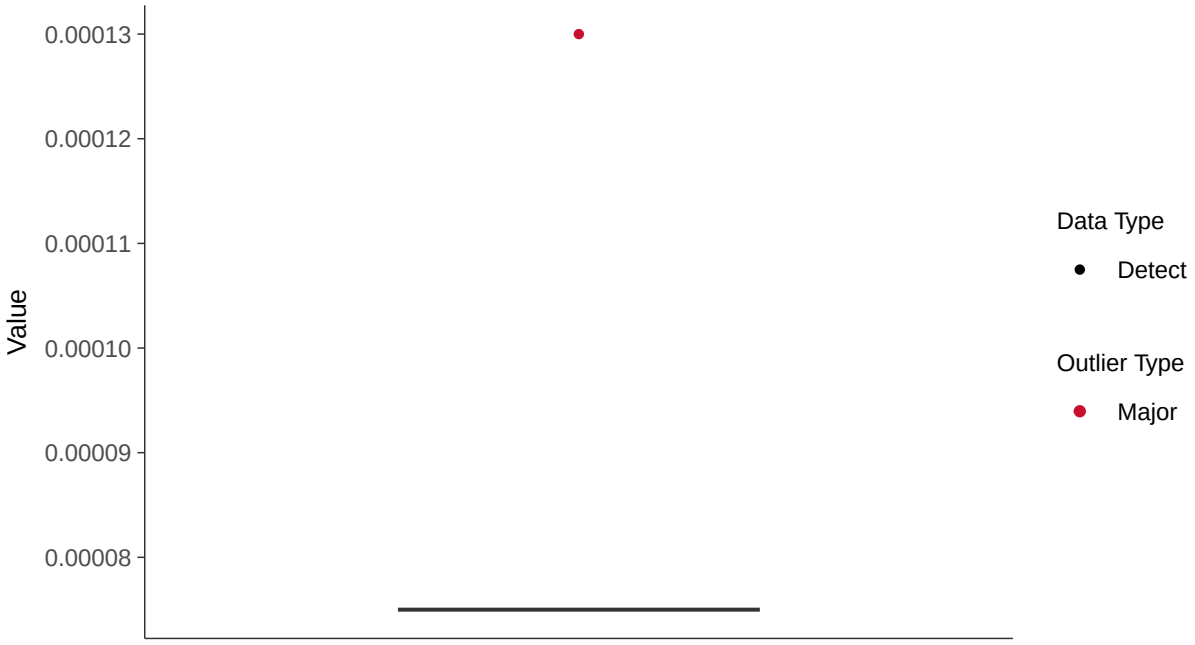
ID: 18_1_4_125





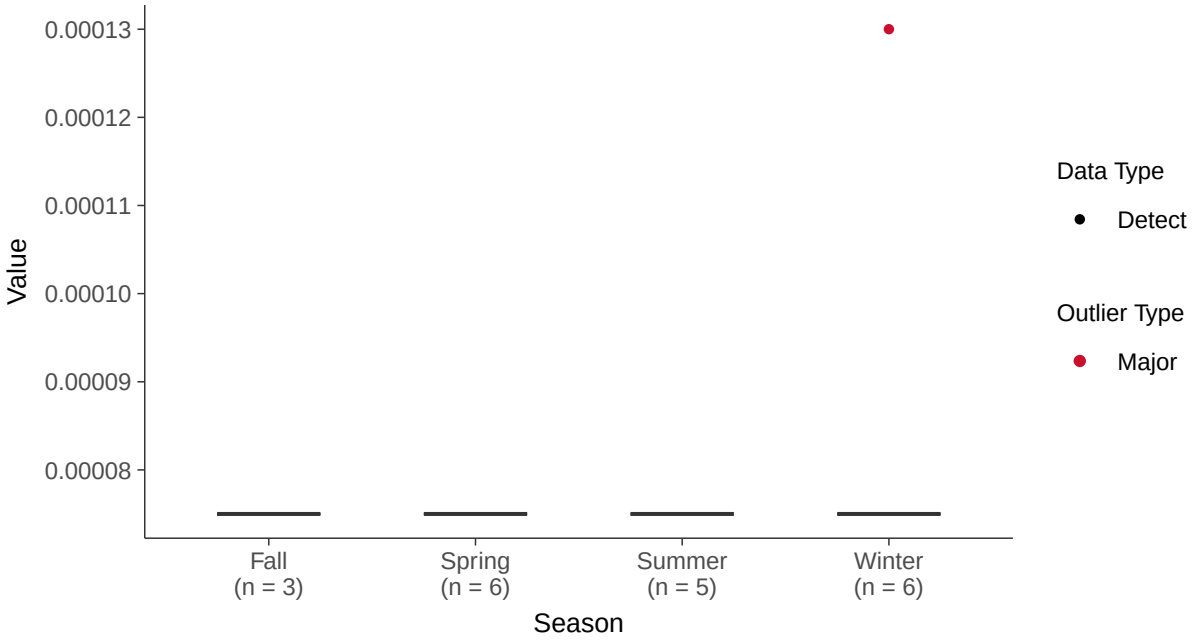
Boxplot

Thallium, MW-08 (mg/L)



Boxplot by Season

Thallium, MW-08 (mg/L)

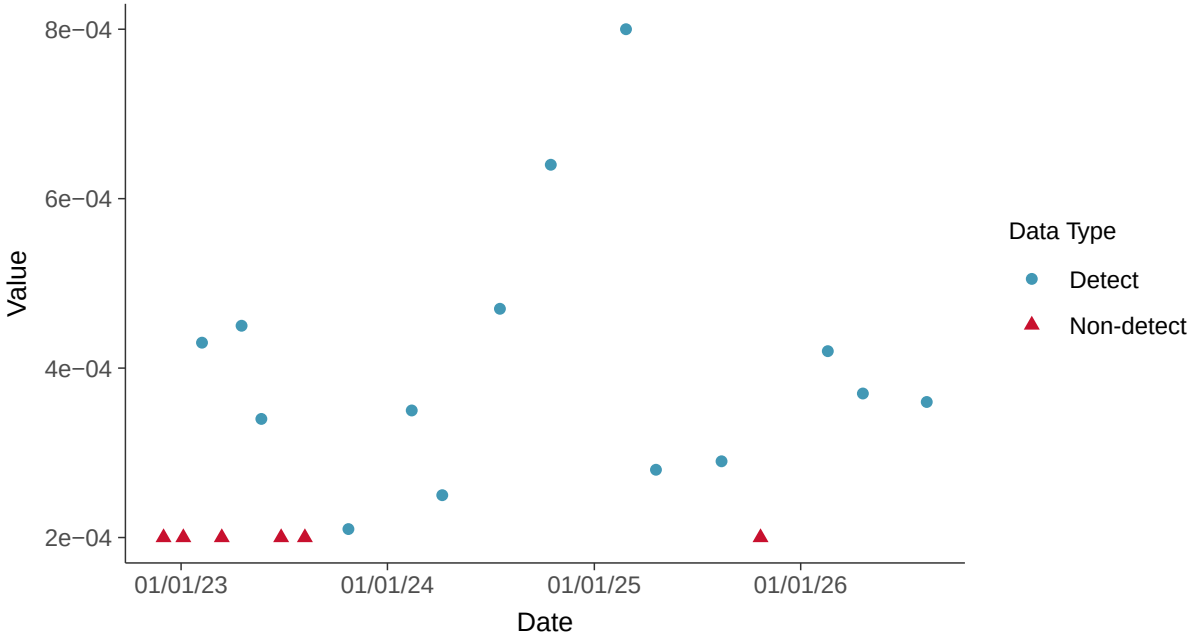


Part 115: Copper, MW-08

ID: 18_1_5_111

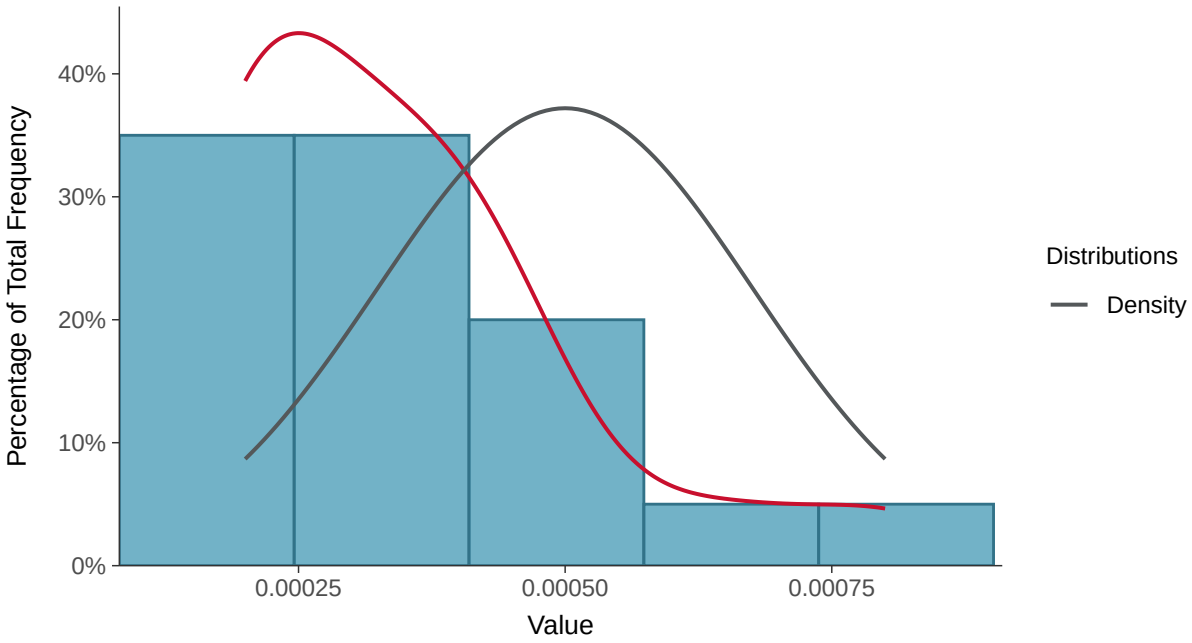
Scatter Plot

Copper, MW-08 (mg/L)



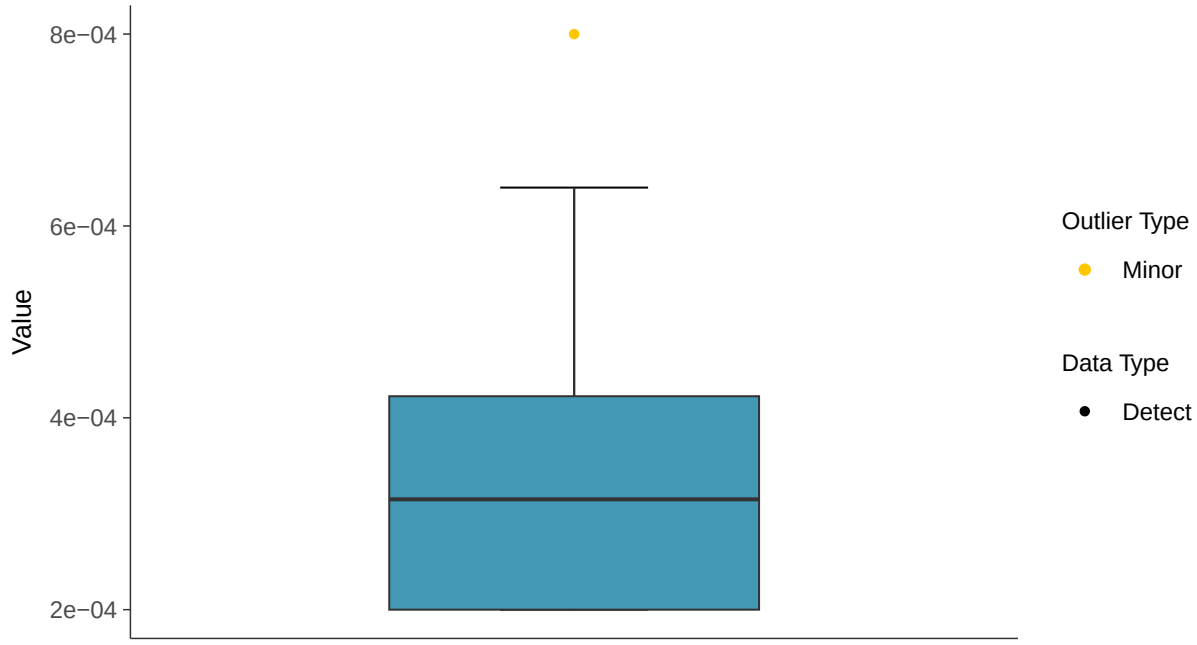
Histogram

Copper, MW-08 (mg/L)



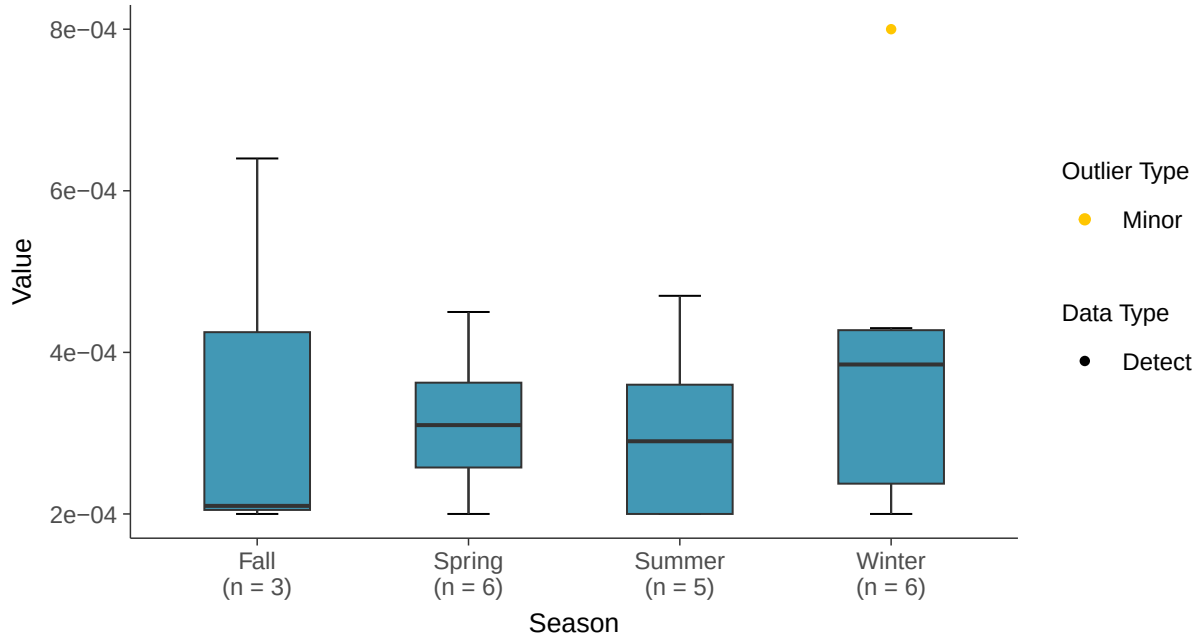
Boxplot

Copper, MW-08 (mg/L)



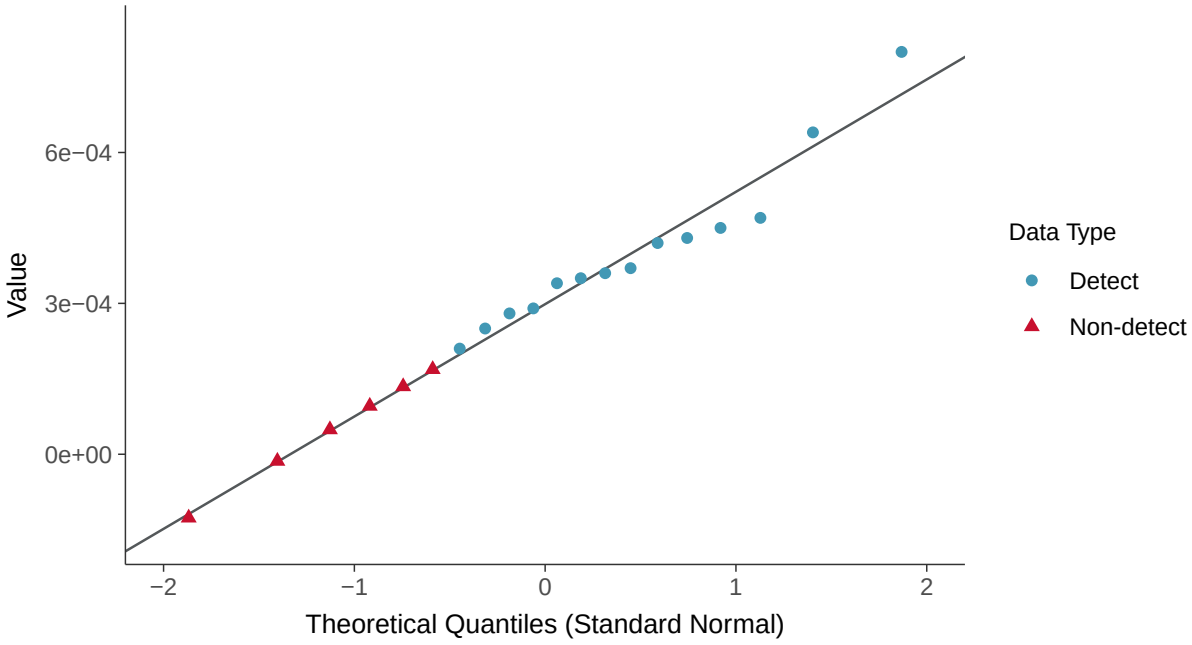
Boxplot by Season

Copper, MW-08 (mg/L)



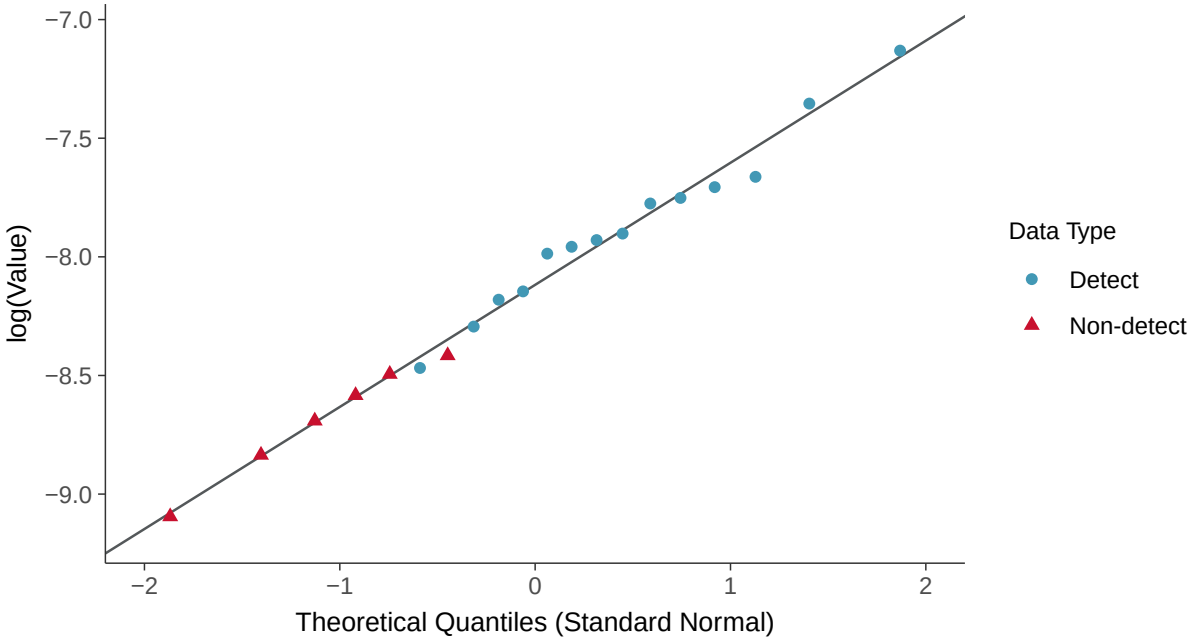
Normal Q-Q plot using ROS Imputed Estimates

Copper, MW-08 (mg/L)



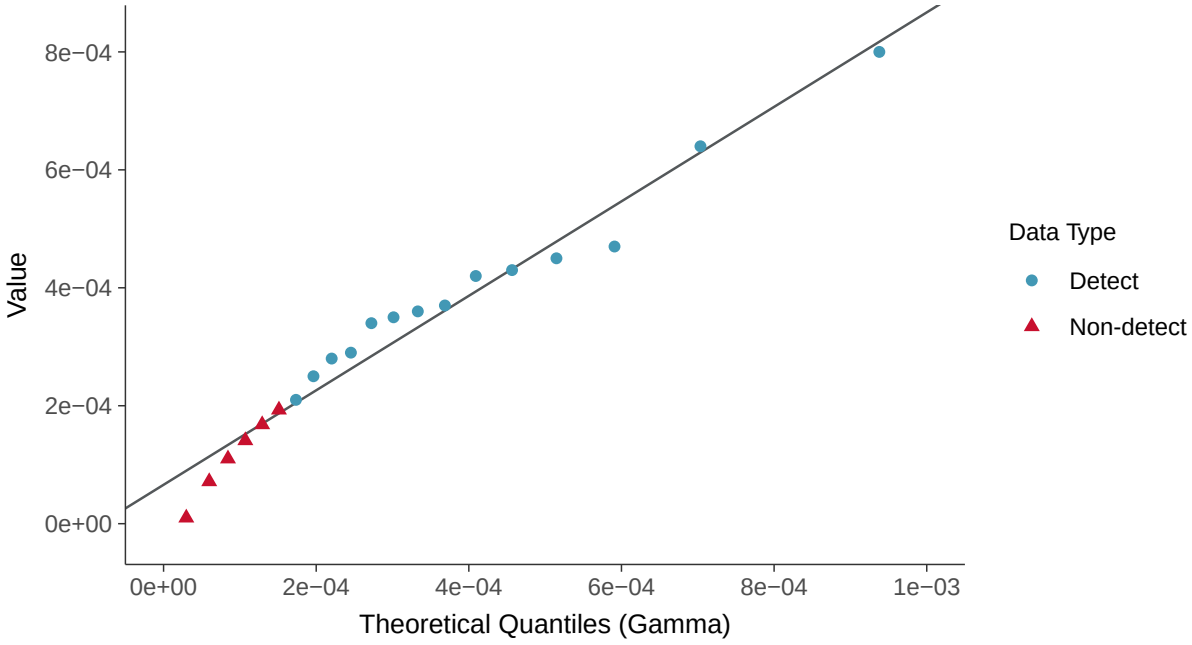
Lognormal Q-Q plot using ROS Imputed Estimates

Copper, MW-08 (mg/L)



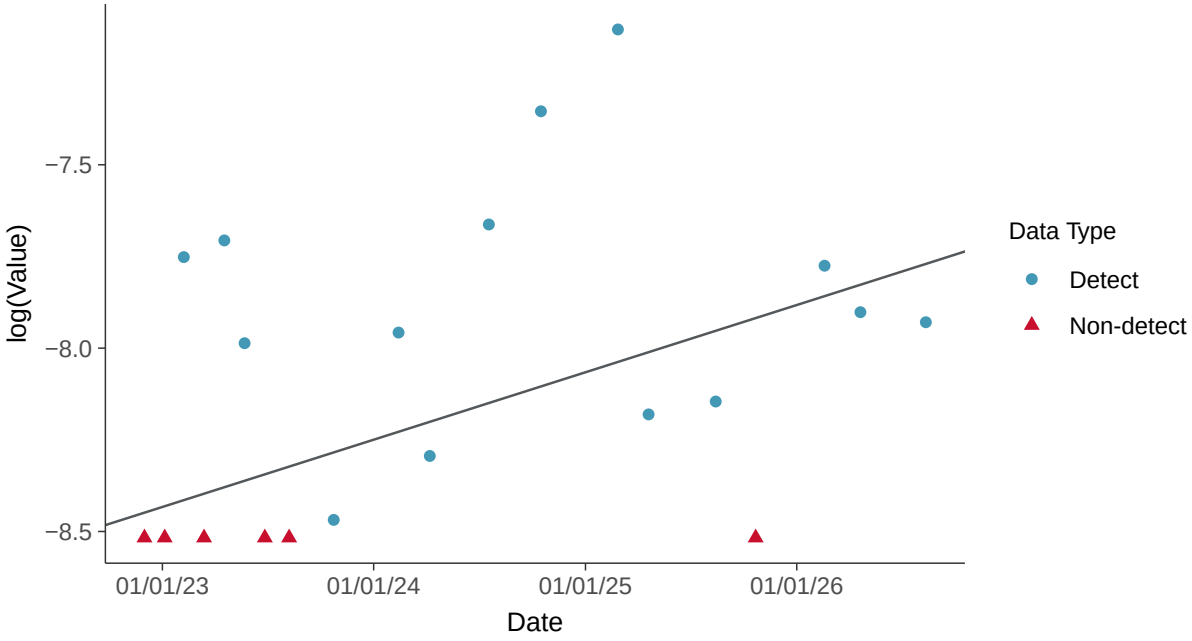
Gamma Q-Q plot using ROS Imputed Estimates

Copper, MW-08 (mg/L)



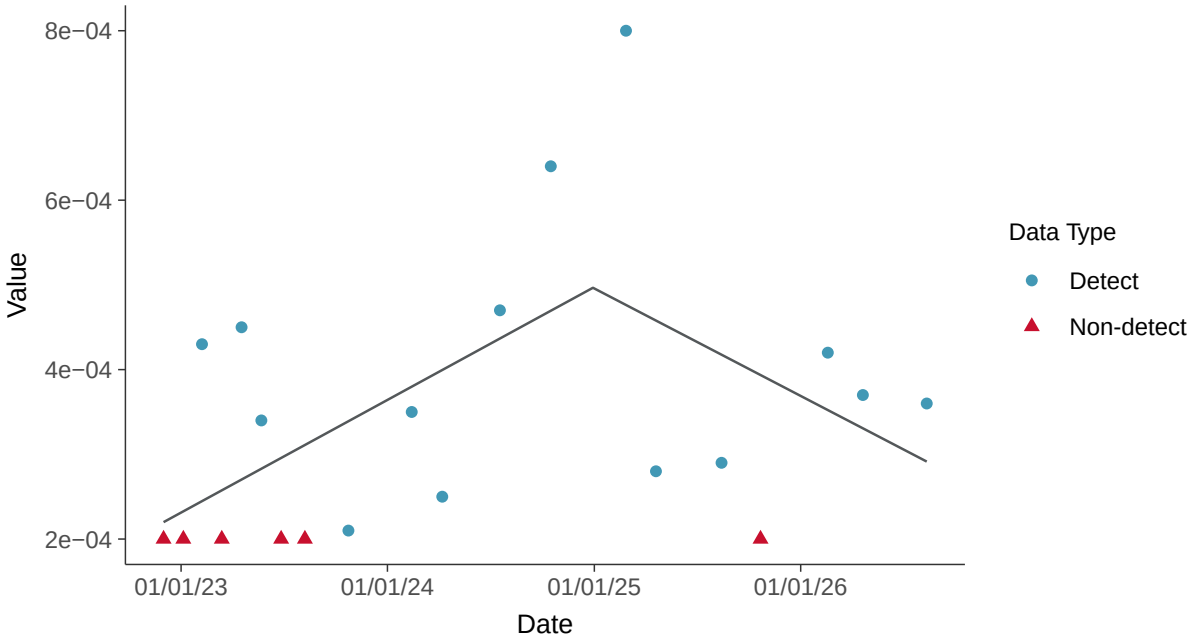
Trend Regression: Lognormal MLE

Copper, MW-08 (mg/L)



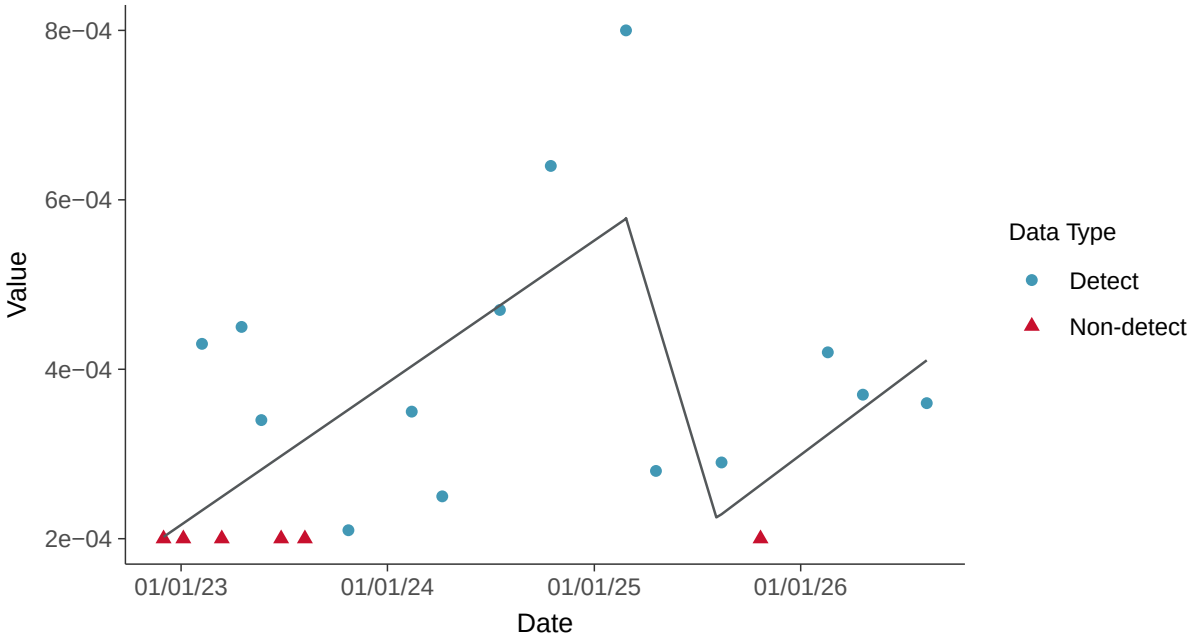
Trend Regression: Piecewise Linear-Linear

Copper, MW-08 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Copper, MW-08 (mg/L)

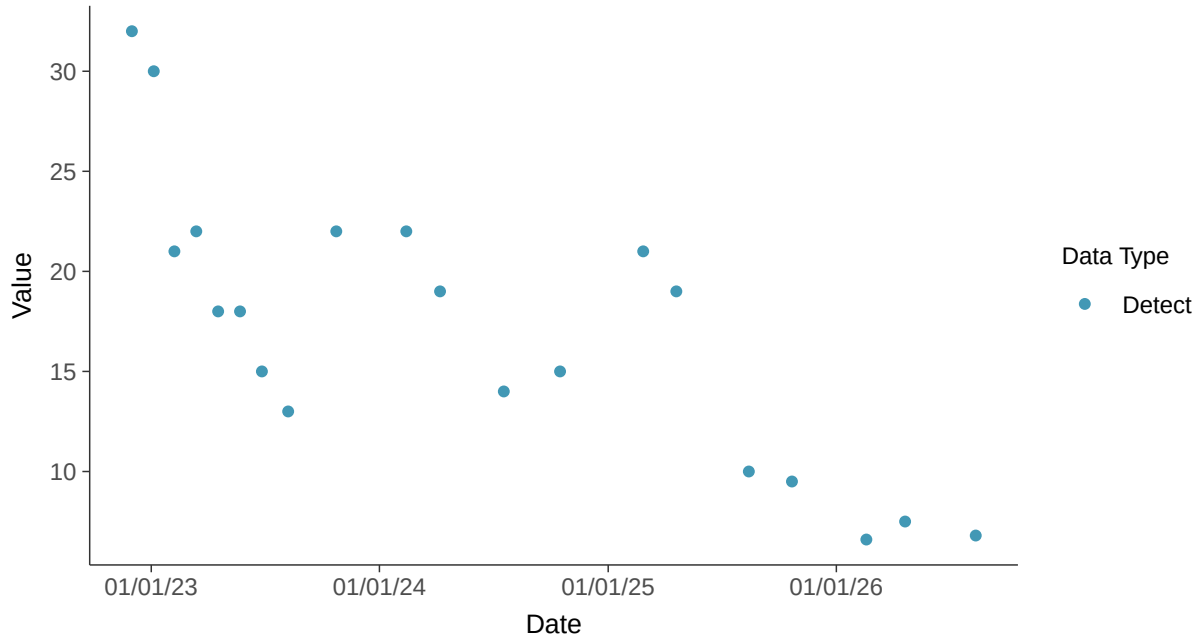


Part 115: Iron, MW-08

ID: 18_1_5_114

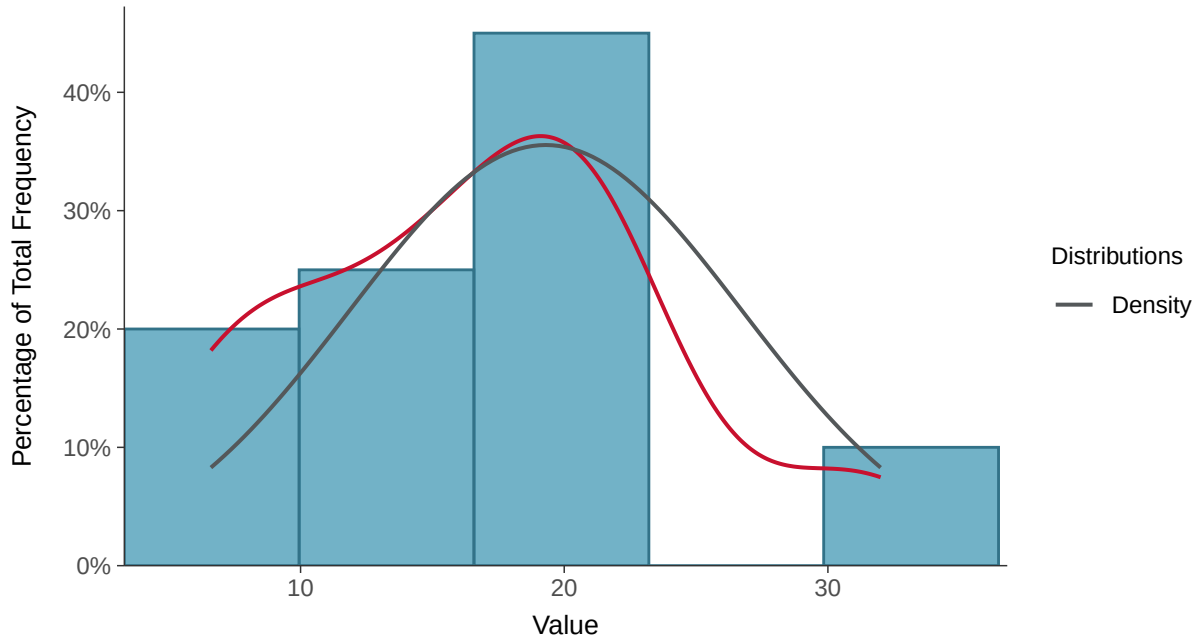
Scatter Plot

Iron, MW-08 (mg/L)



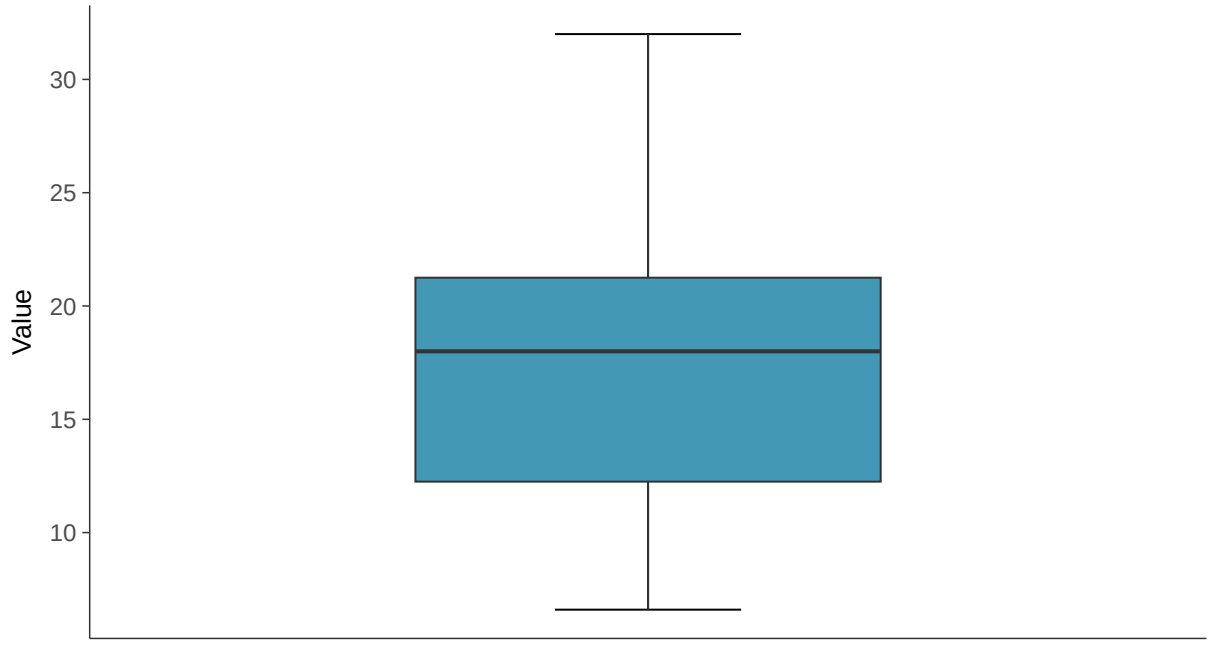
Histogram

Iron, MW-08 (mg/L)



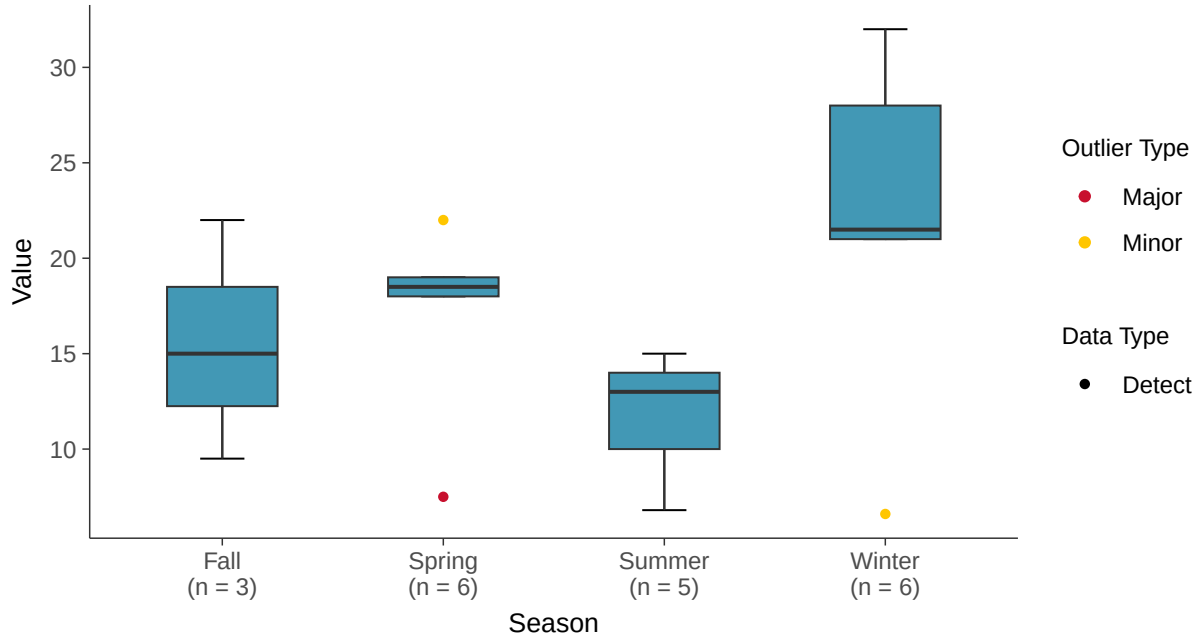
Boxplot

Iron, MW-08 (mg/L)



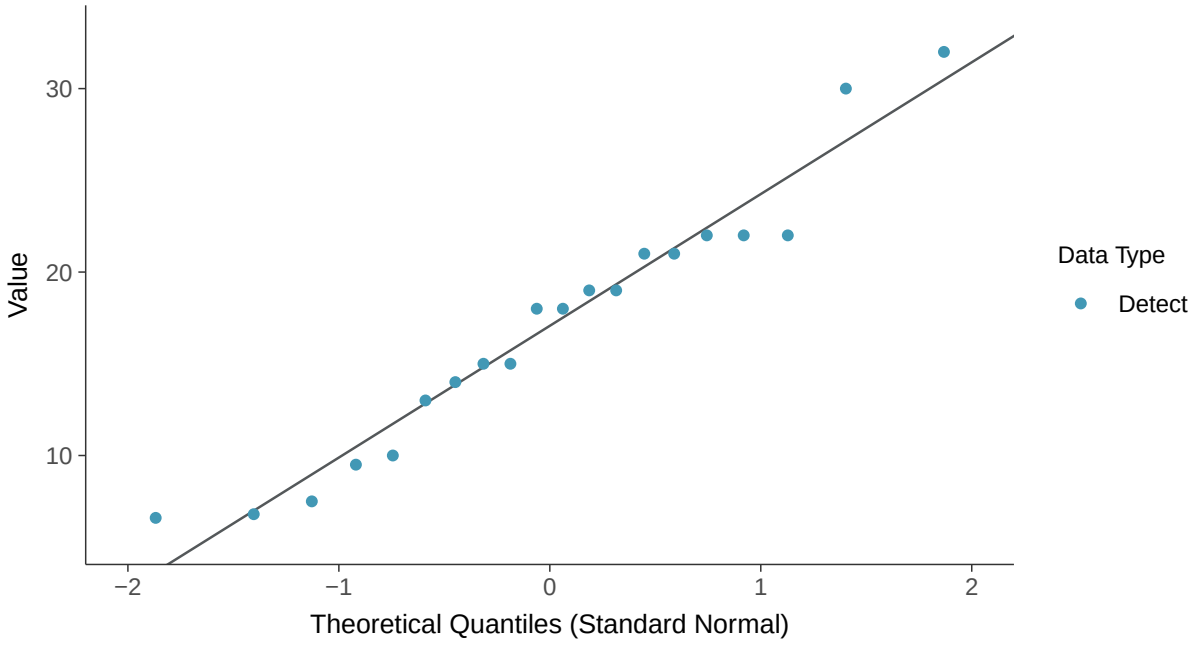
Boxplot by Season

Iron, MW-08 (mg/L)



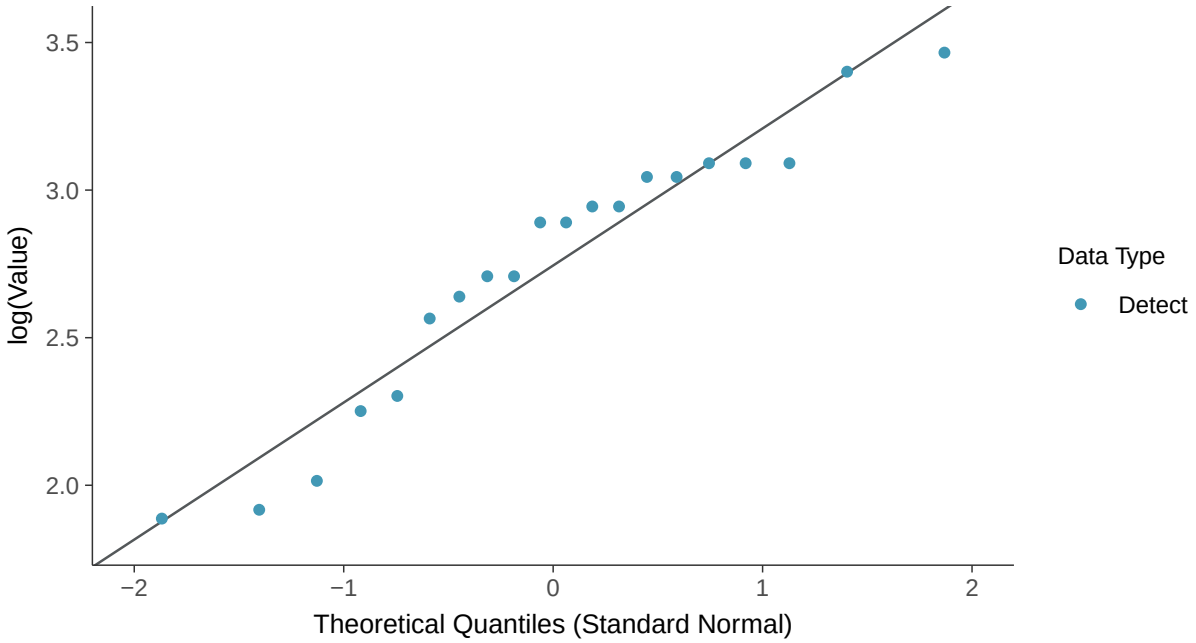
Normal Q-Q plot

Iron, MW-08 (mg/L)



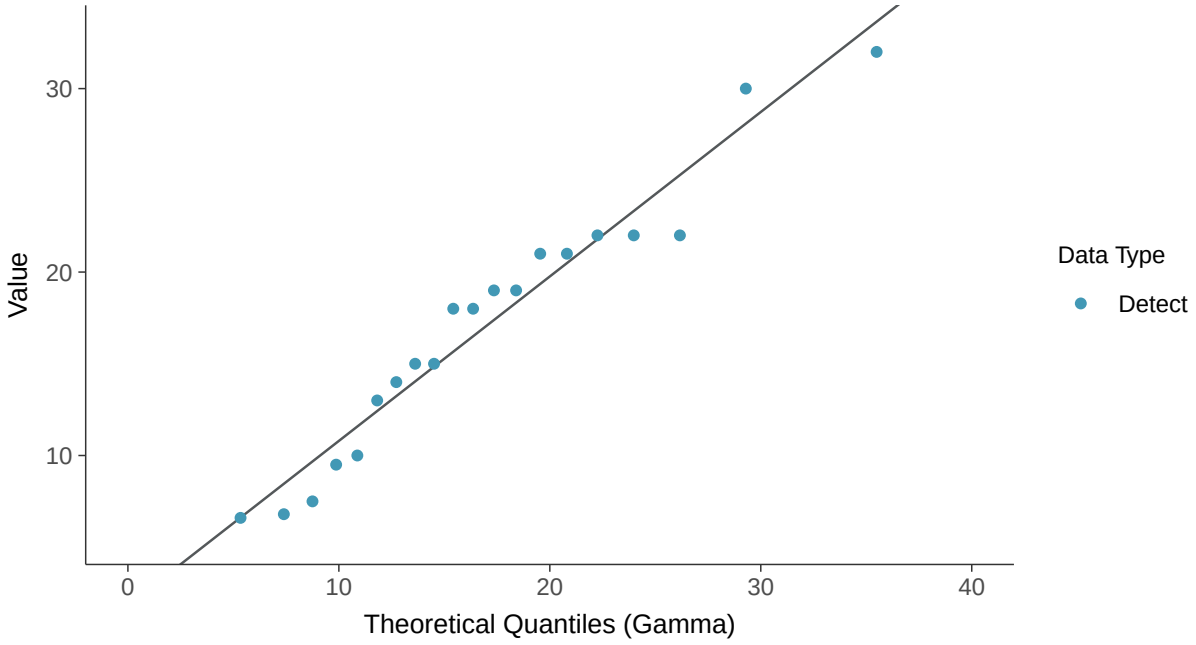
Lognormal Q-Q plot

Iron, MW-08 (mg/L)



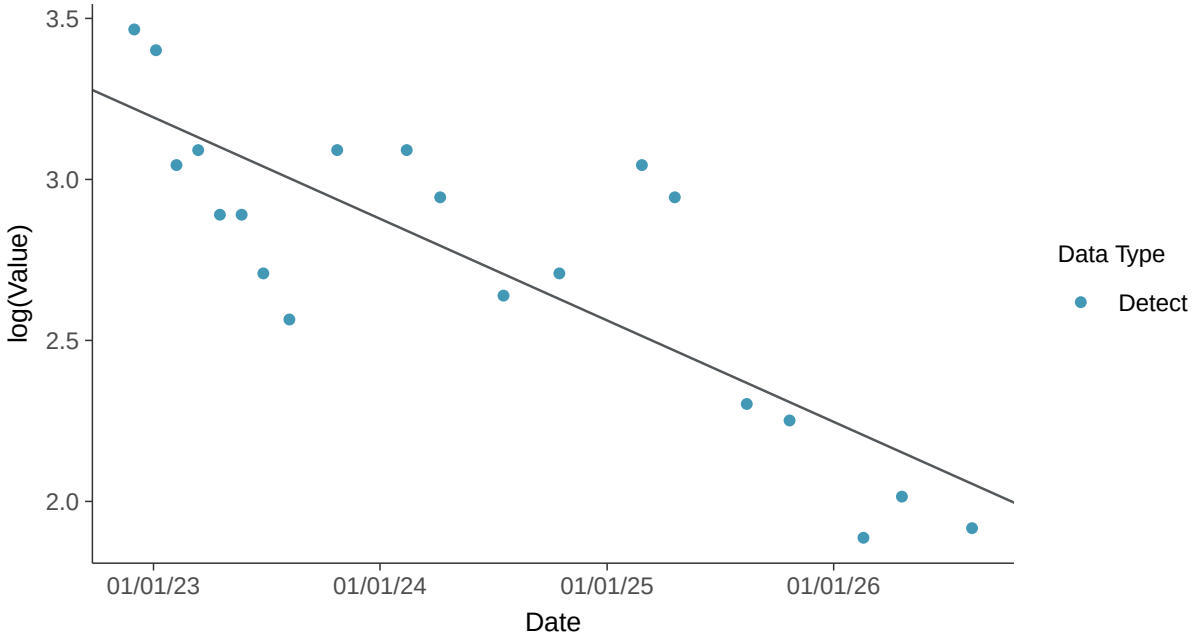
Gamma Q-Q plot

Iron, MW-08 (mg/L)



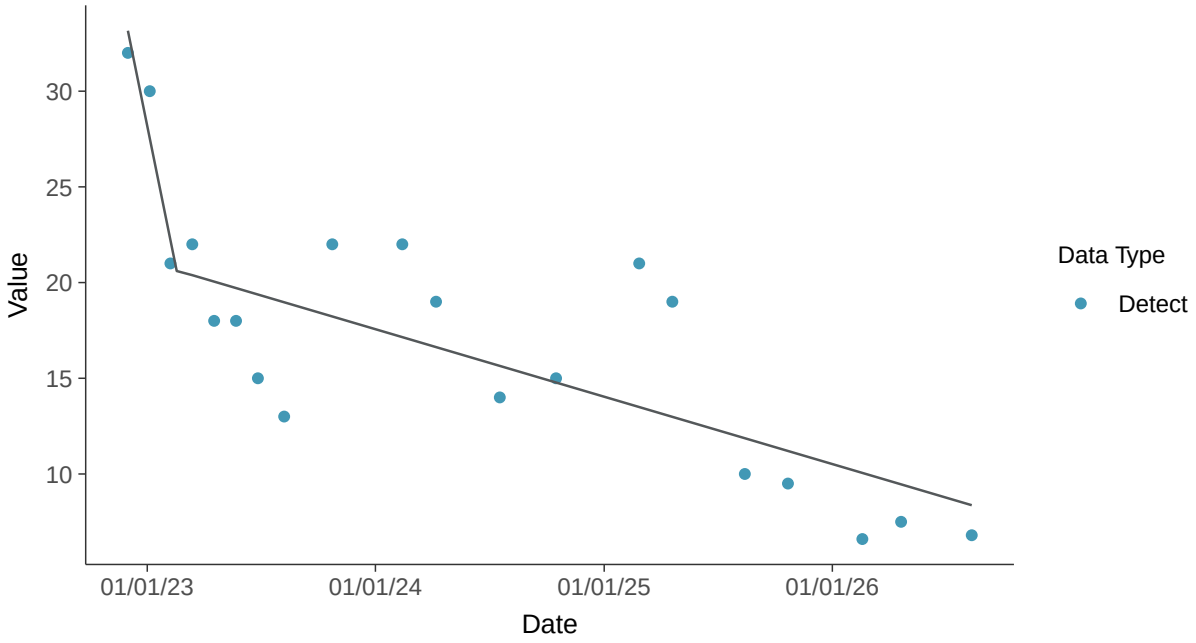
Trend Regression: Lognormal MLE

Iron, MW-08 (mg/L)



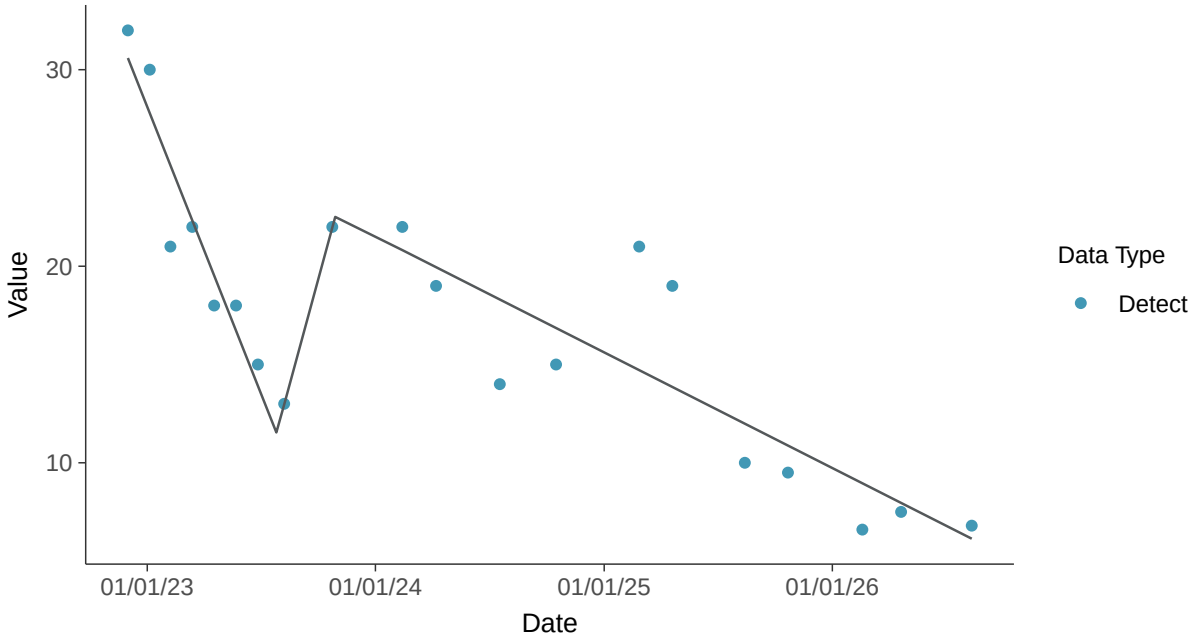
Trend Regression: Piecewise Linear-Linear

Iron, MW-08 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Iron, MW-08 (mg/L)

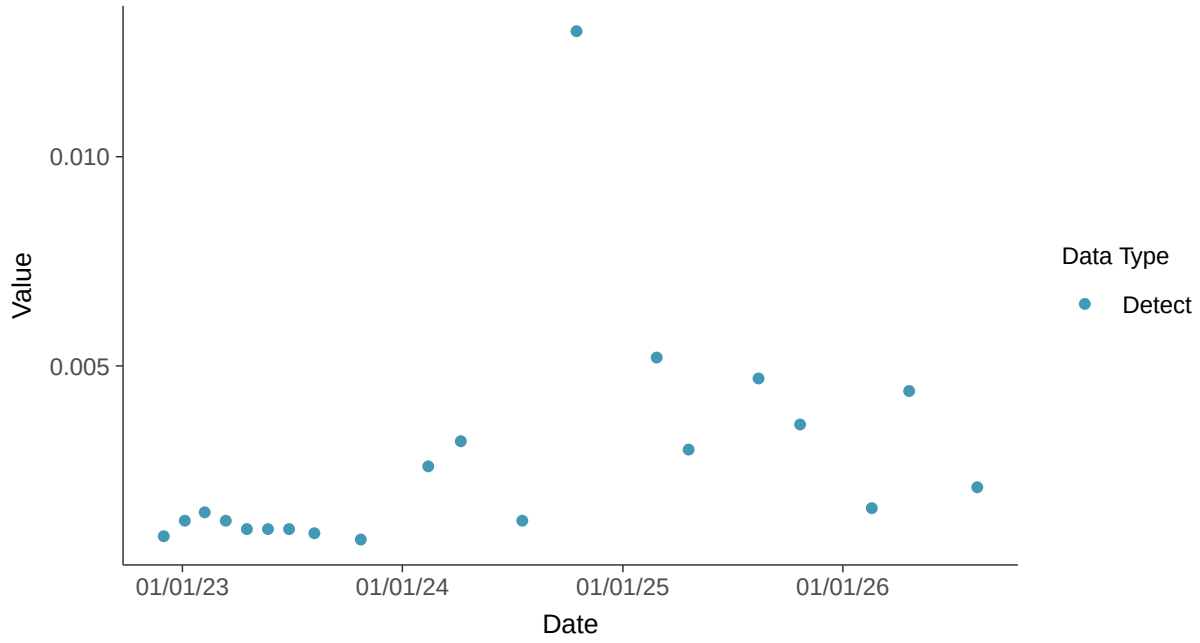


Part 115: Nickel, MW-08

ID: 18_1_5_119

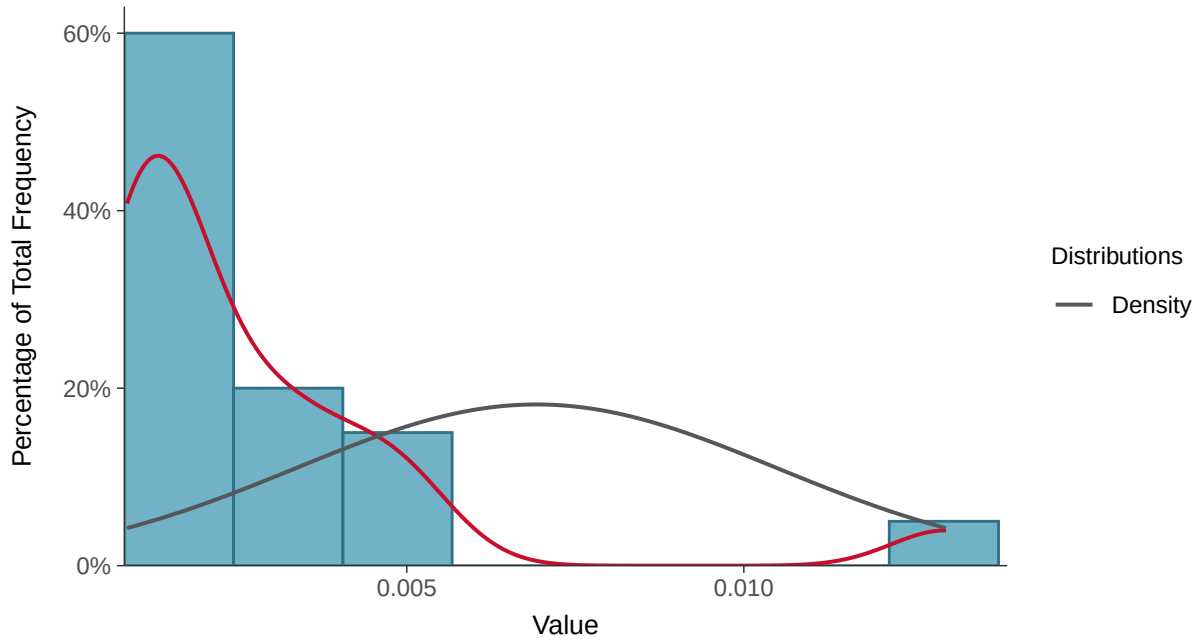
Scatter Plot

Nickel, MW-08 (mg/L)



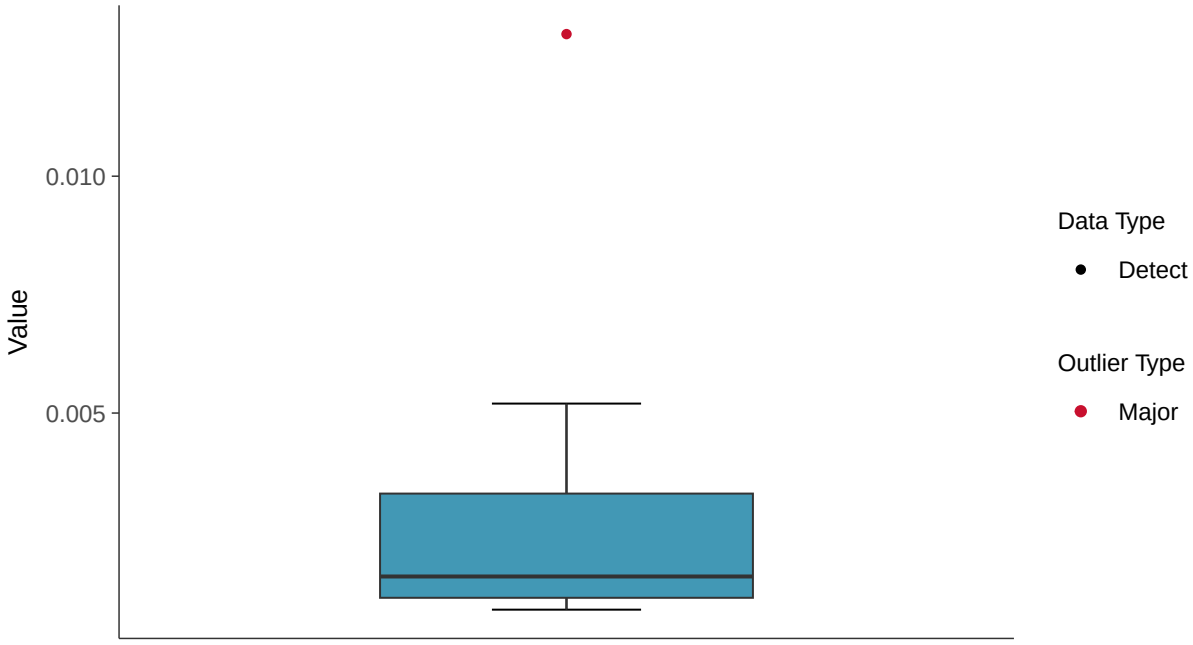
Histogram

Nickel, MW-08 (mg/L)



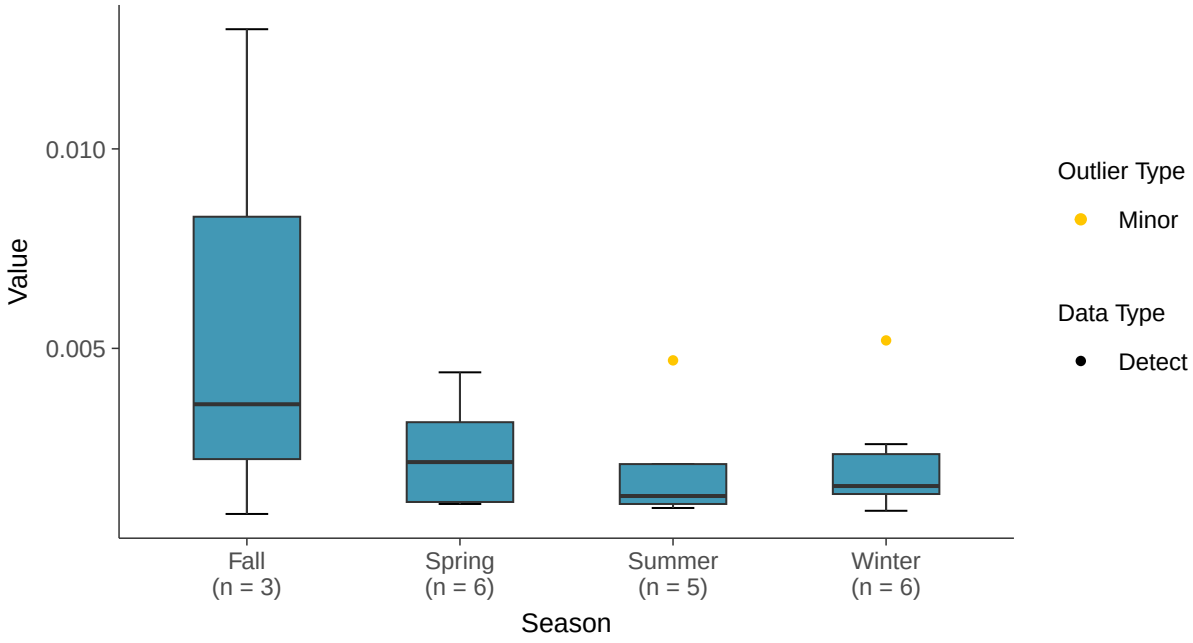
Boxplot

Nickel, MW-08 (mg/L)



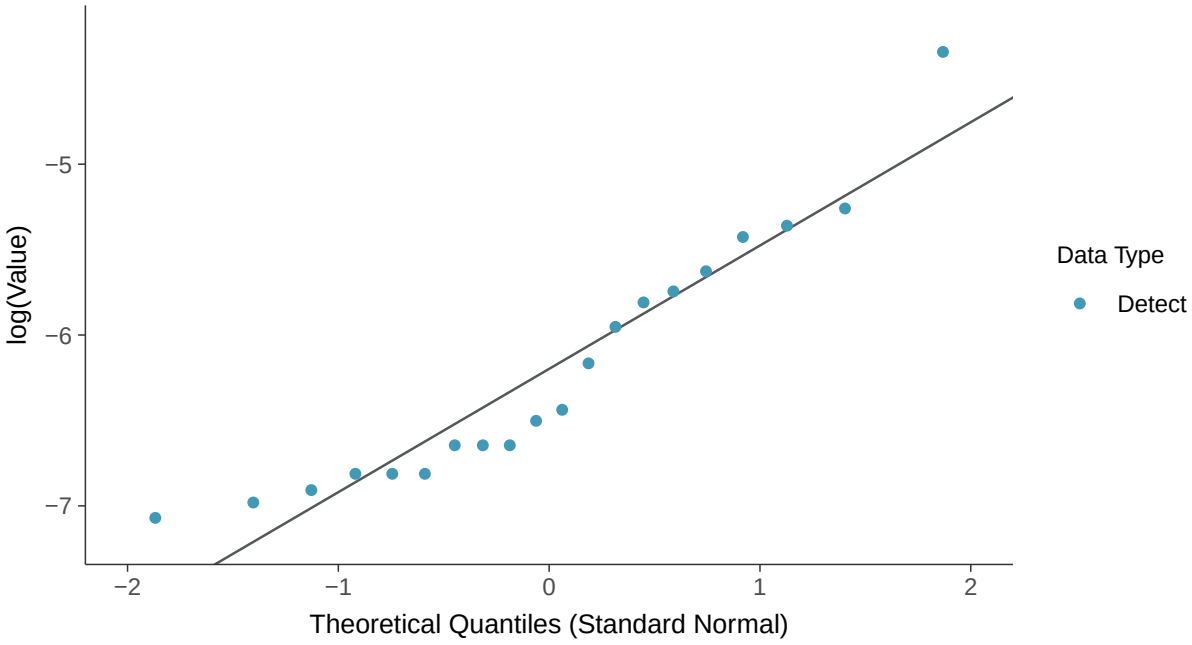
Boxplot by Season

Nickel, MW-08 (mg/L)



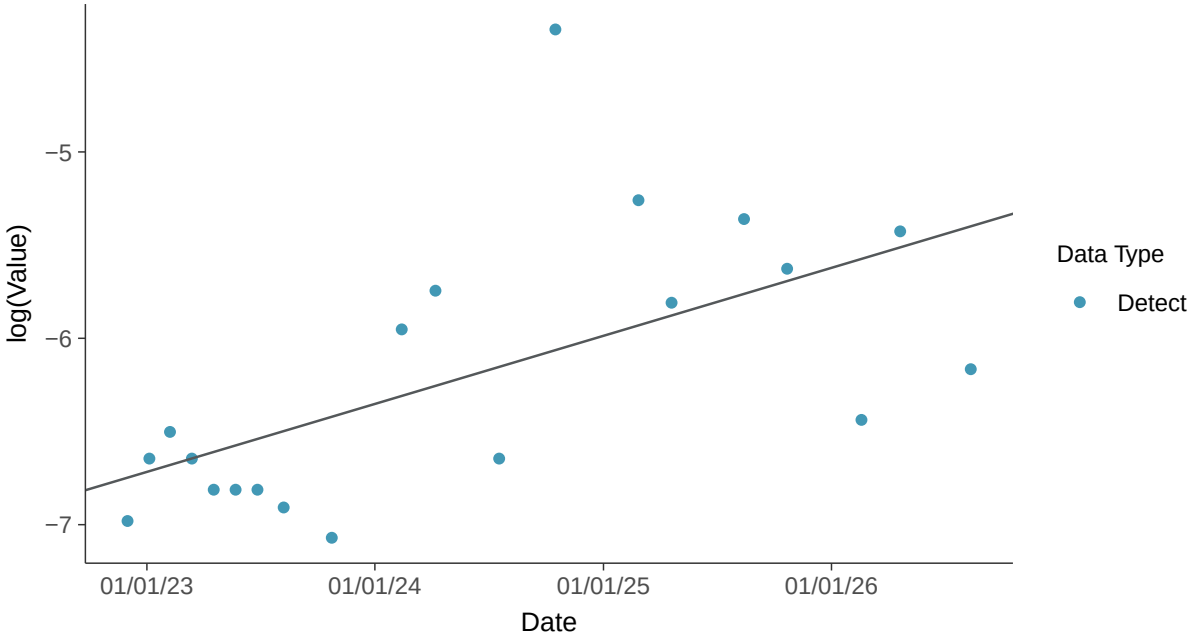
Lognormal Q-Q plot

Nickel, MW-08 (mg/L)



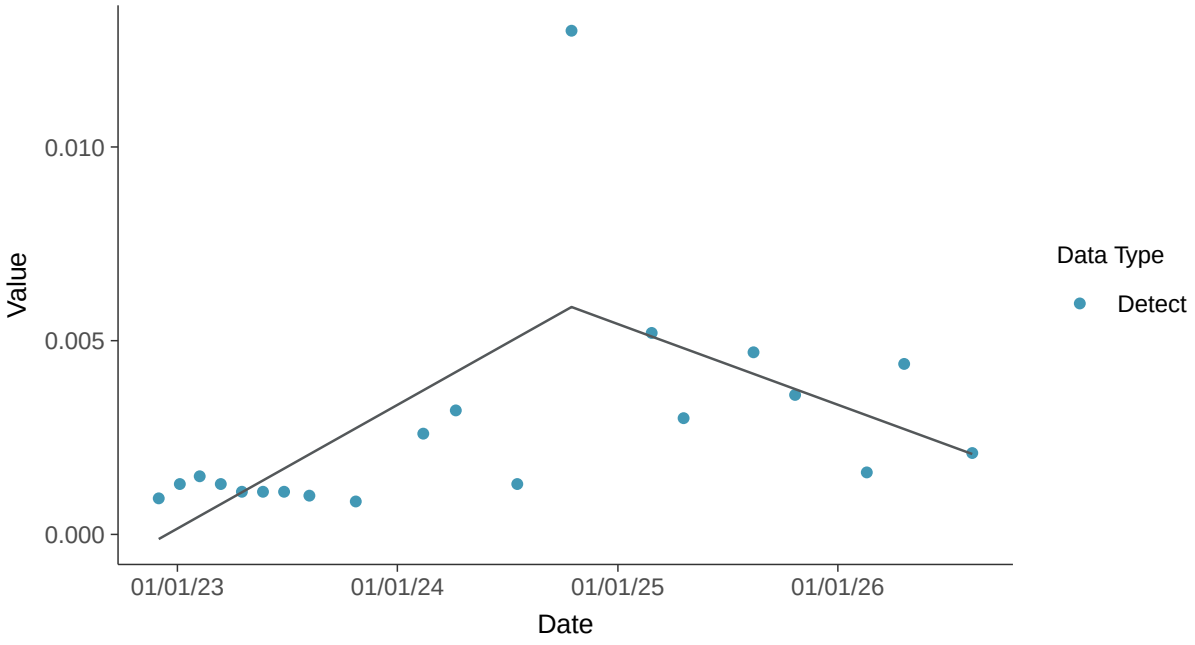
Trend Regression: Lognormal MLE

Nickel, MW-08 (mg/L)



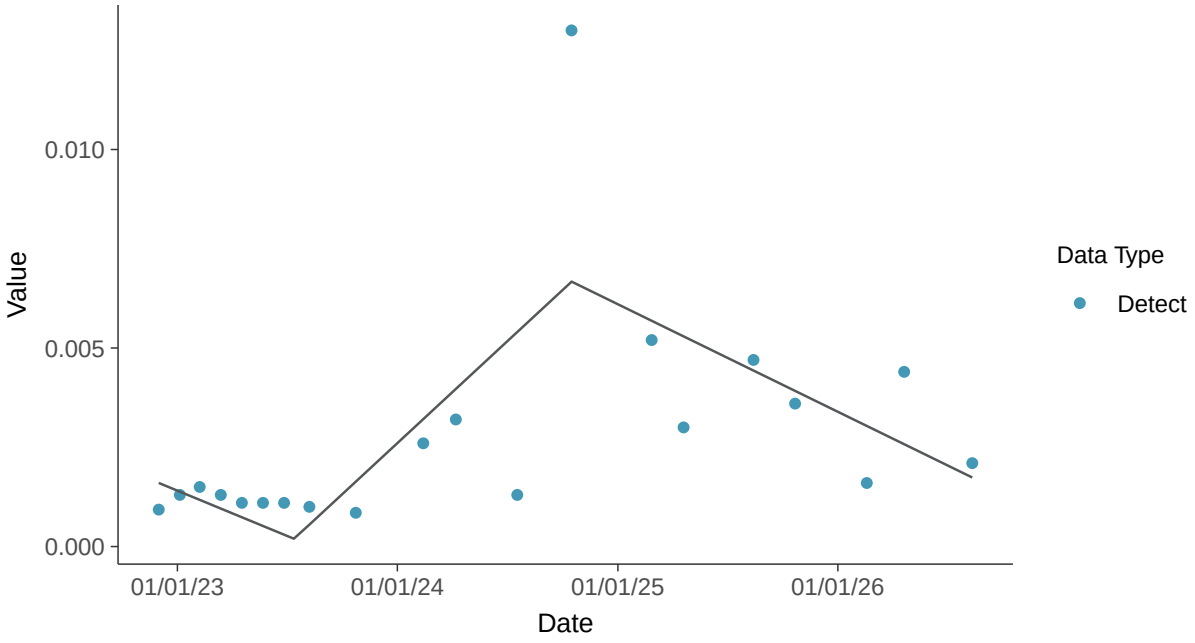
Trend Regression: Piecewise Linear-Linear

Nickel, MW-08 (mg/L)



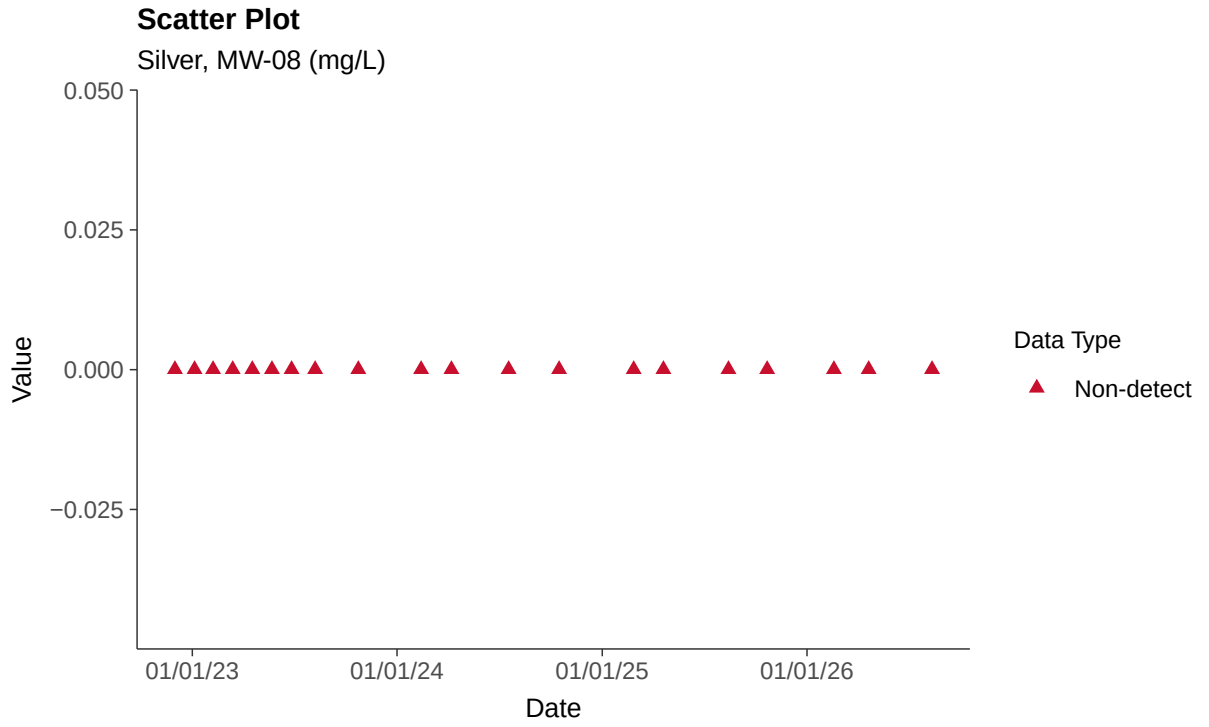
Trend Regression: Piecewise Linear-Linear-Linear

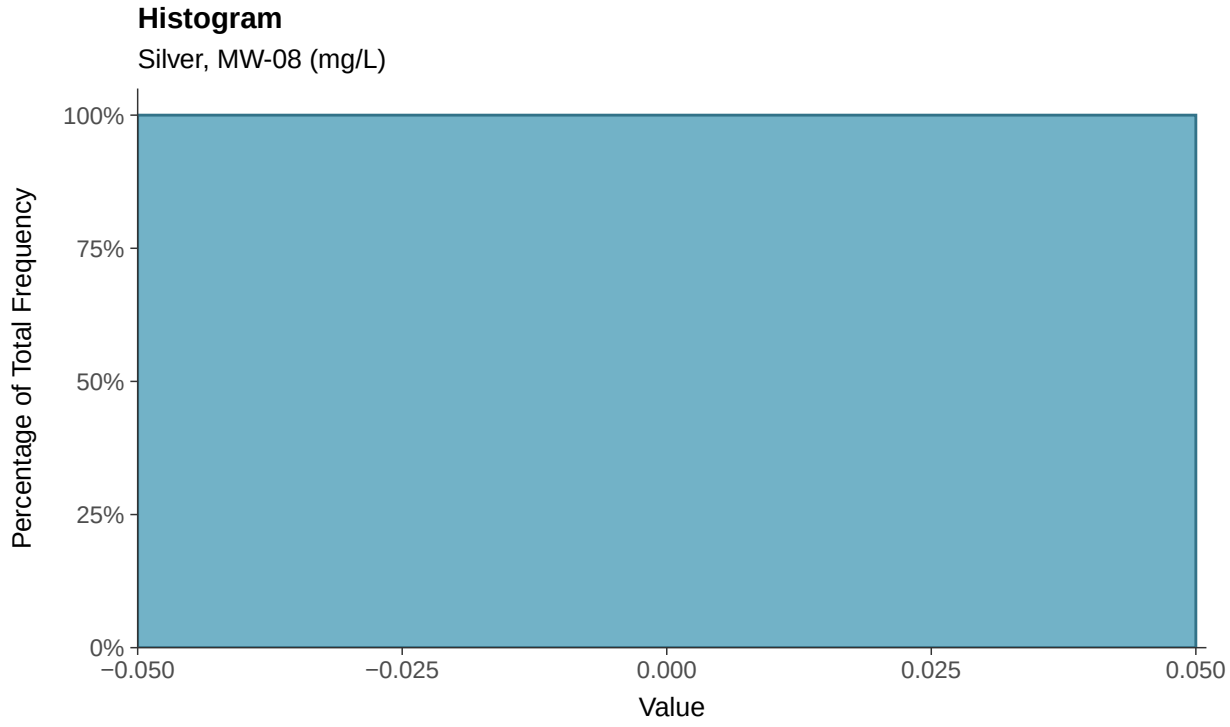
Nickel, MW-08 (mg/L)



Part 115: Silver, MW-08

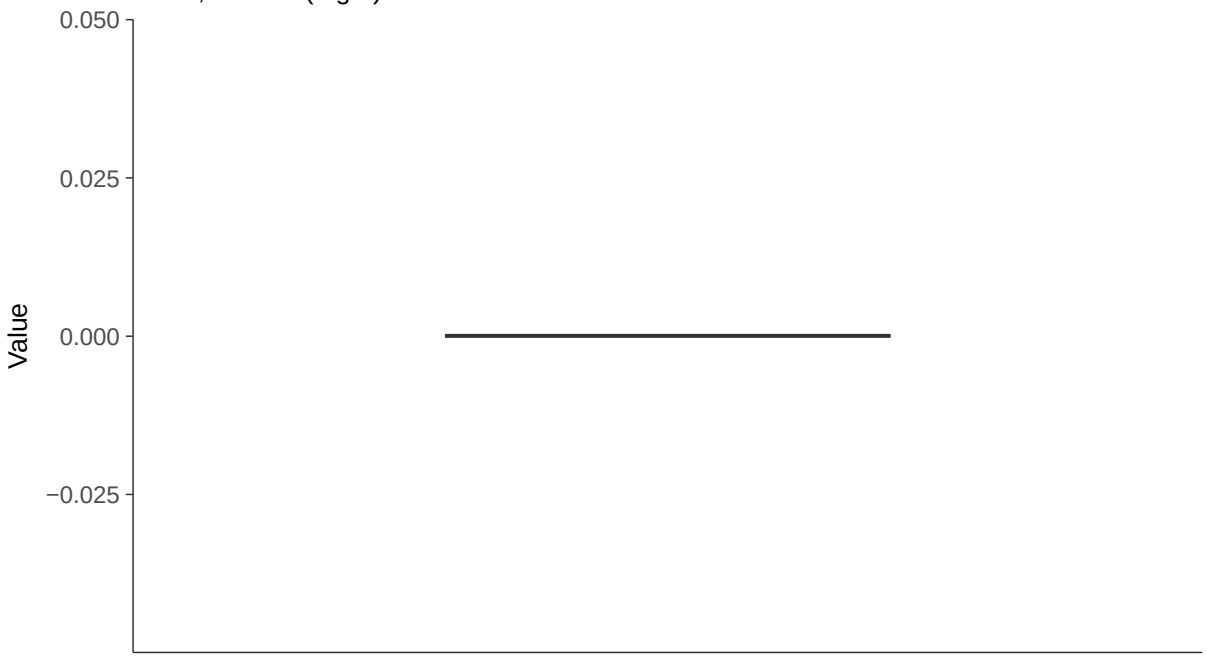
ID: 18_1_5_123





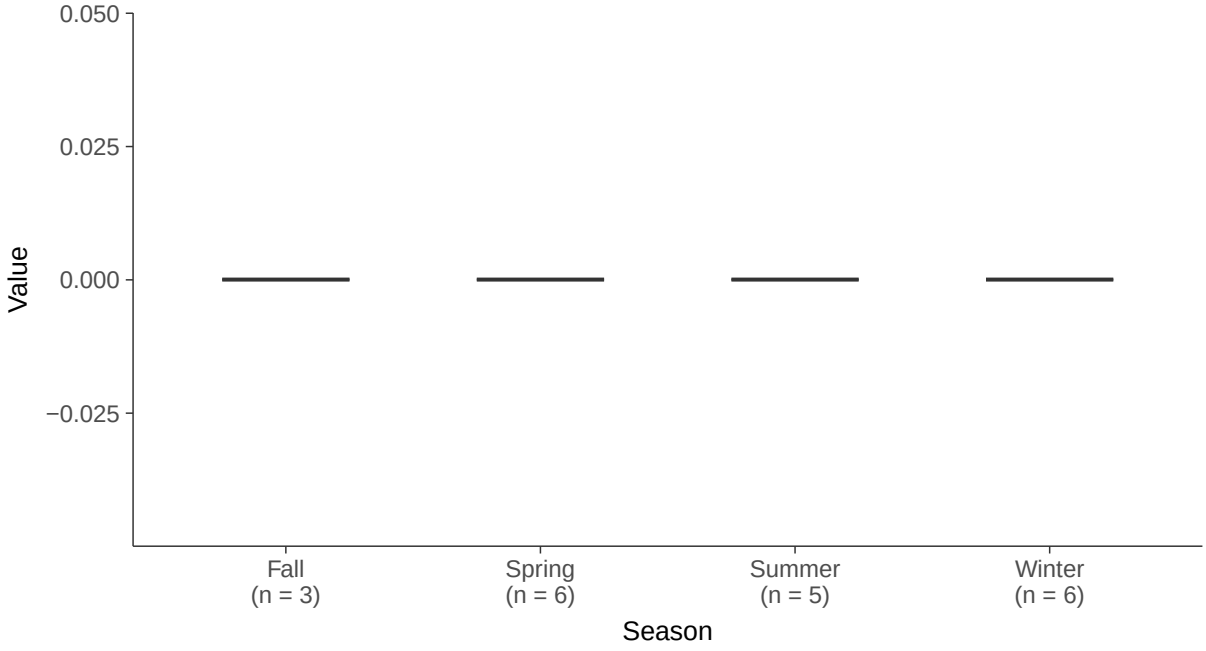
Boxplot

Silver, MW-08 (mg/L)



Boxplot by Season

Silver, MW-08 (mg/L)

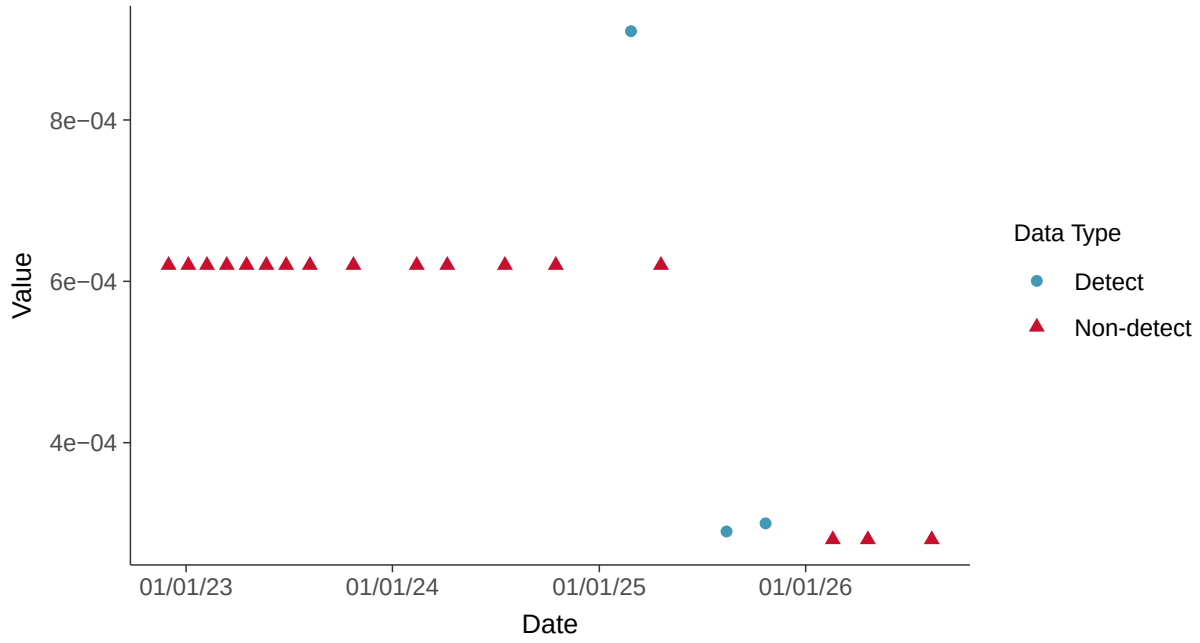


Part 115: Vanadium, MW-08

ID: 18_1_5_128

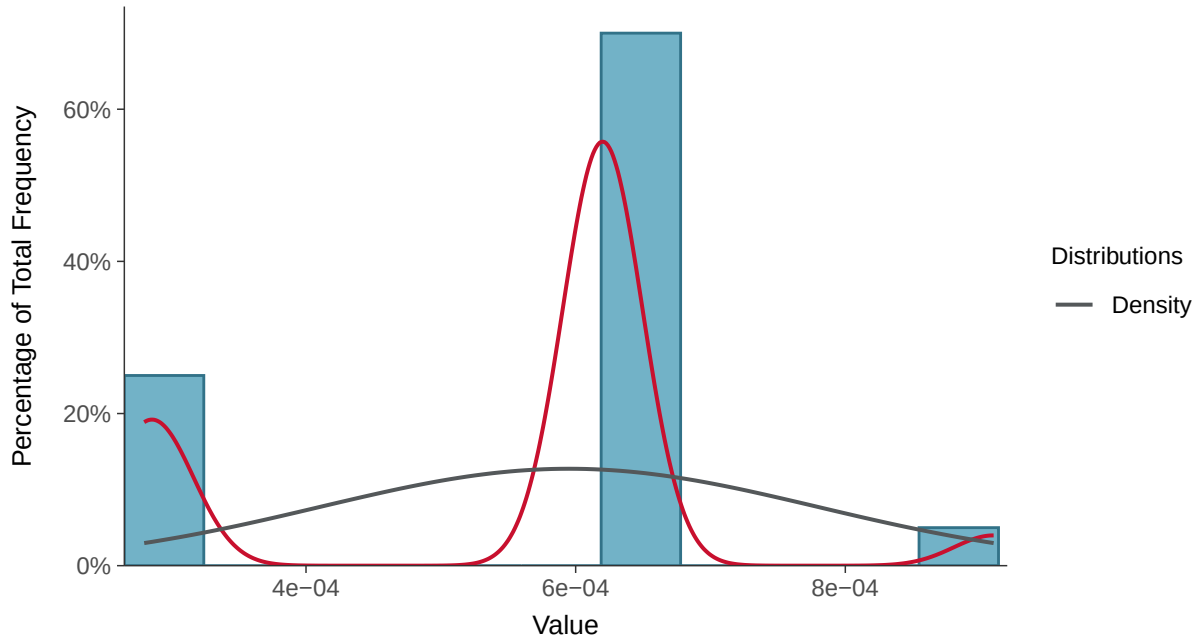
Scatter Plot

Vanadium, MW-08 (mg/L)



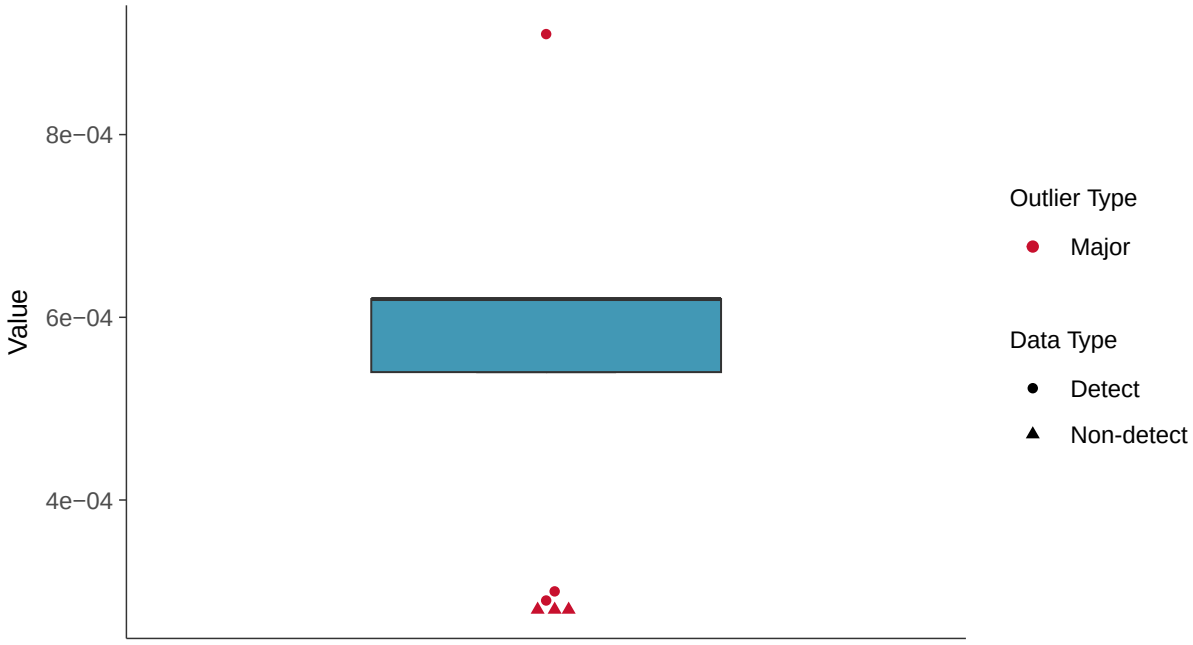
Histogram

Vanadium, MW-08 (mg/L)



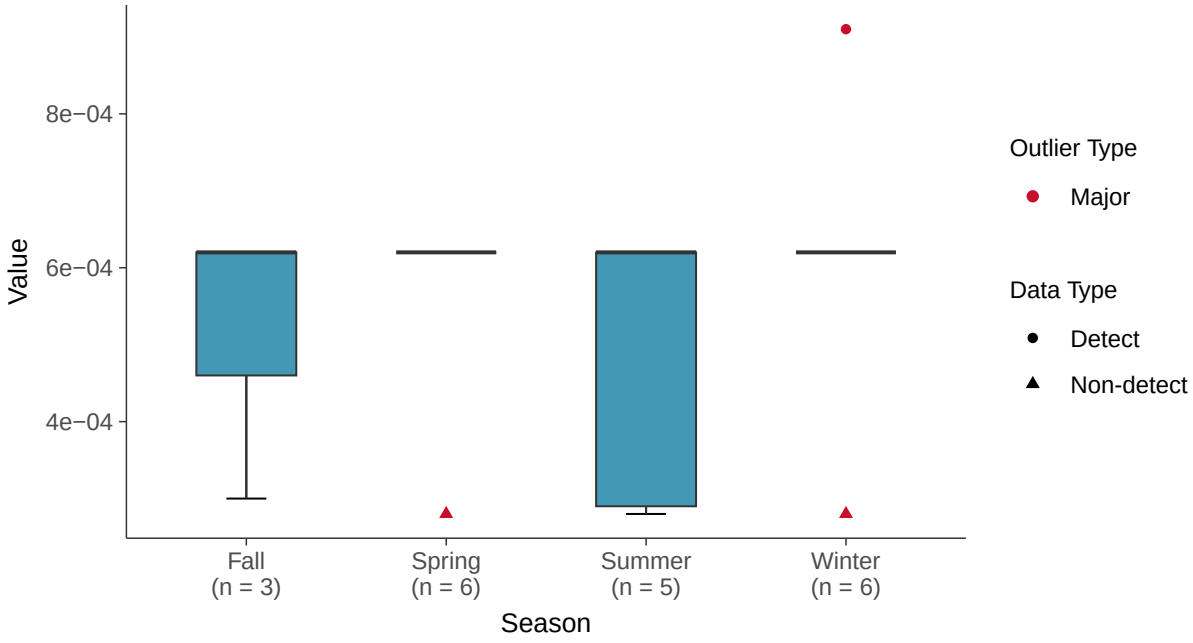
Boxplot

Vanadium, MW-08 (mg/L)



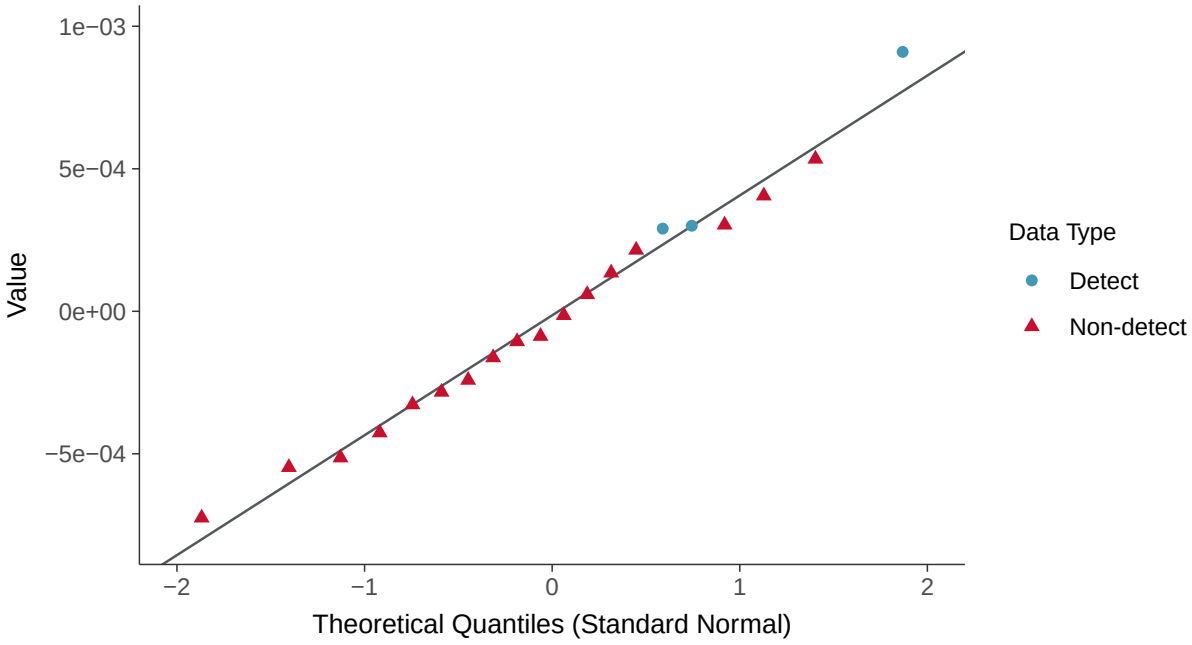
Boxplot by Season

Vanadium, MW-08 (mg/L)



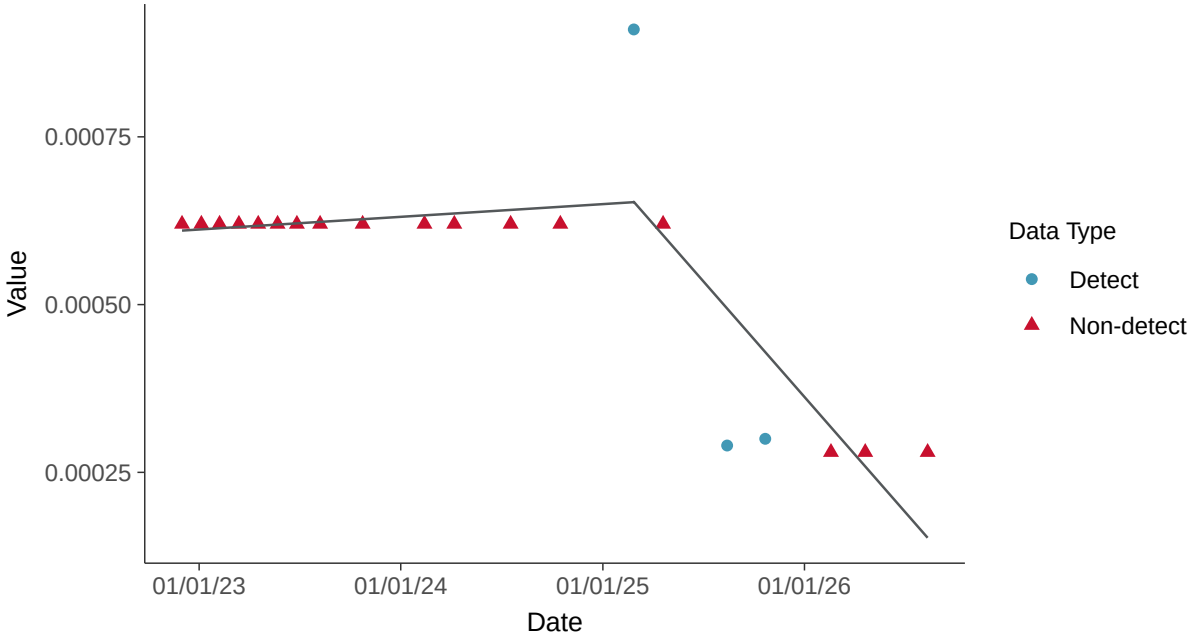
Normal Q-Q plot using ROS Imputed Estimates

Vanadium, MW-08 (mg/L)



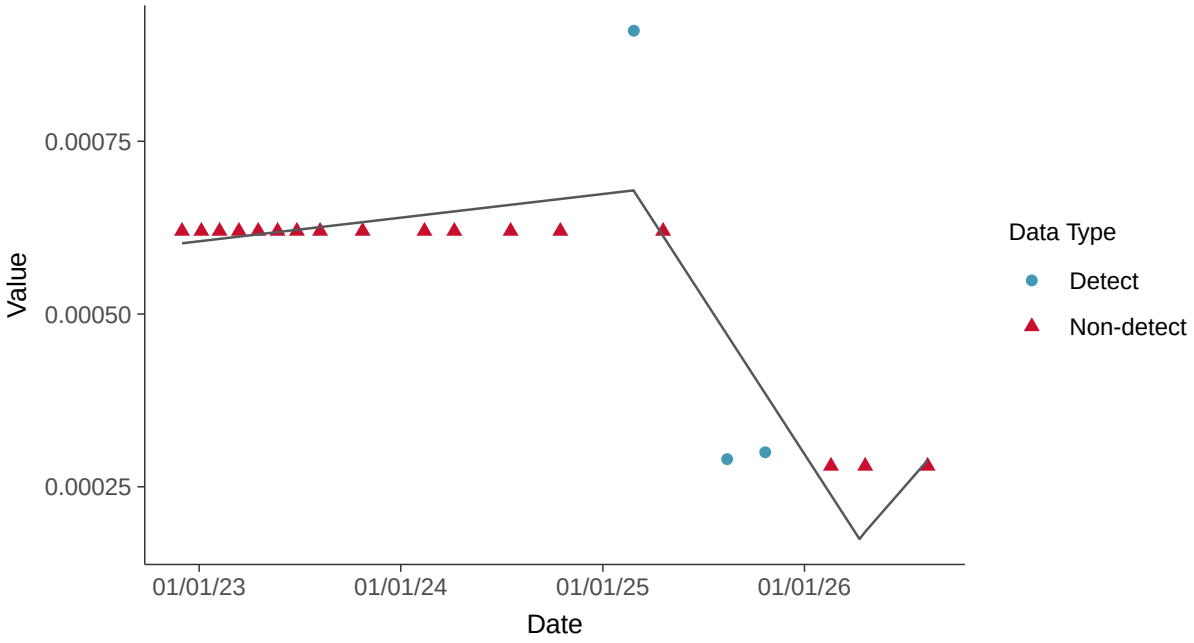
Trend Regression: Piecewise Linear-Linear

Vanadium, MW-08 (mg/L)



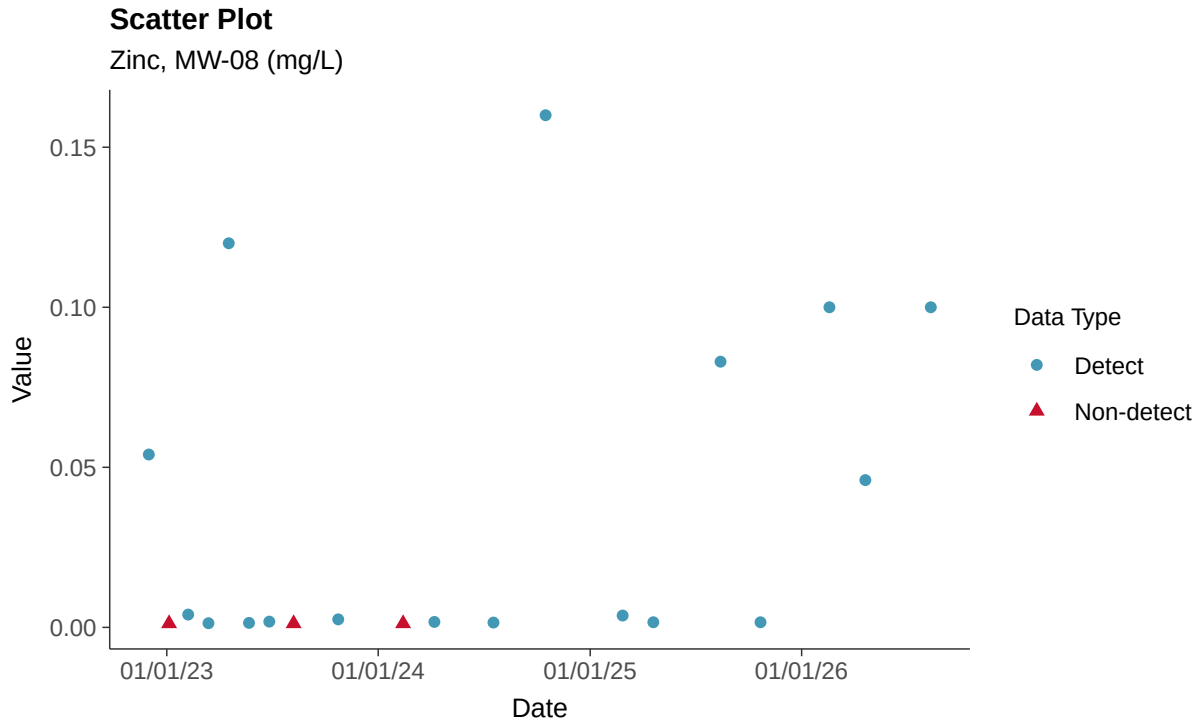
Trend Regression: Piecewise Linear-Linear-Linear

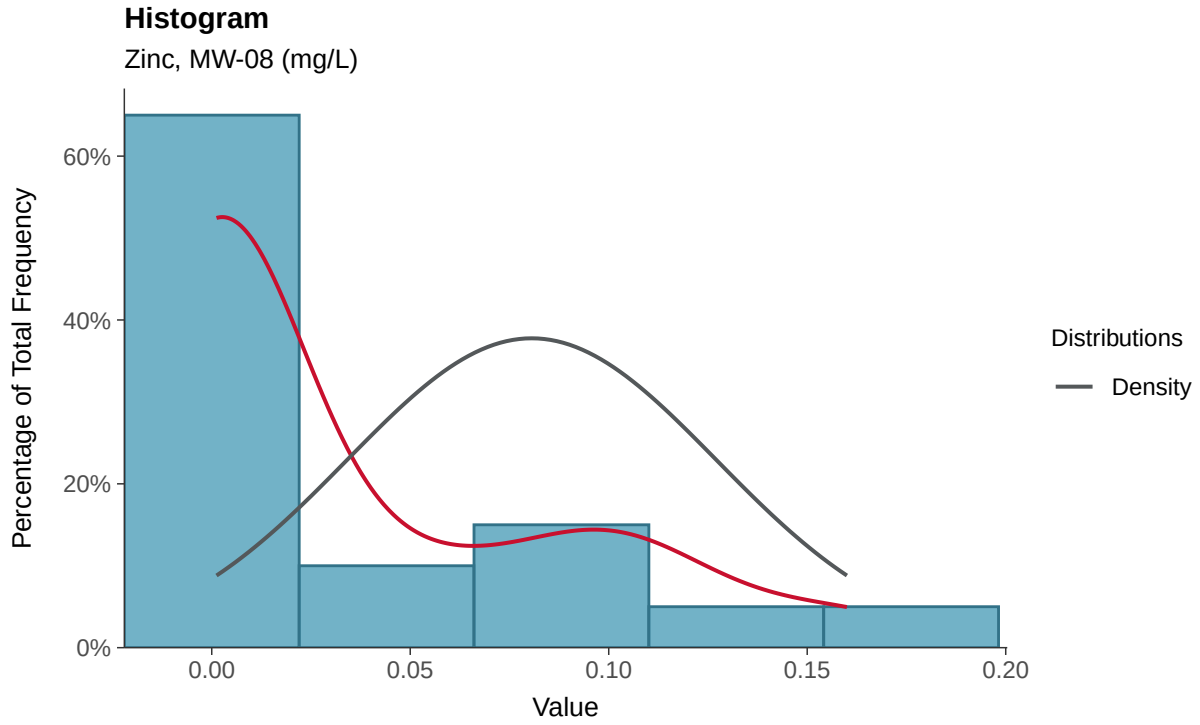
Vanadium, MW-08 (mg/L)



Part 115: Zinc, MW-08

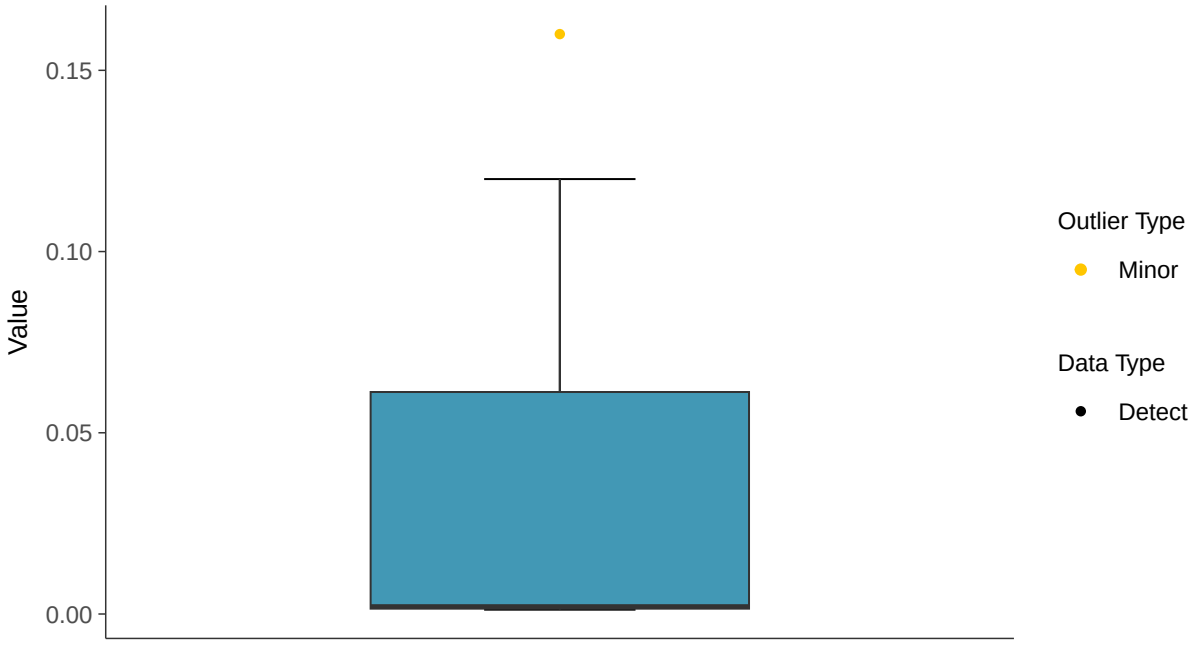
ID: 18_1_5_129





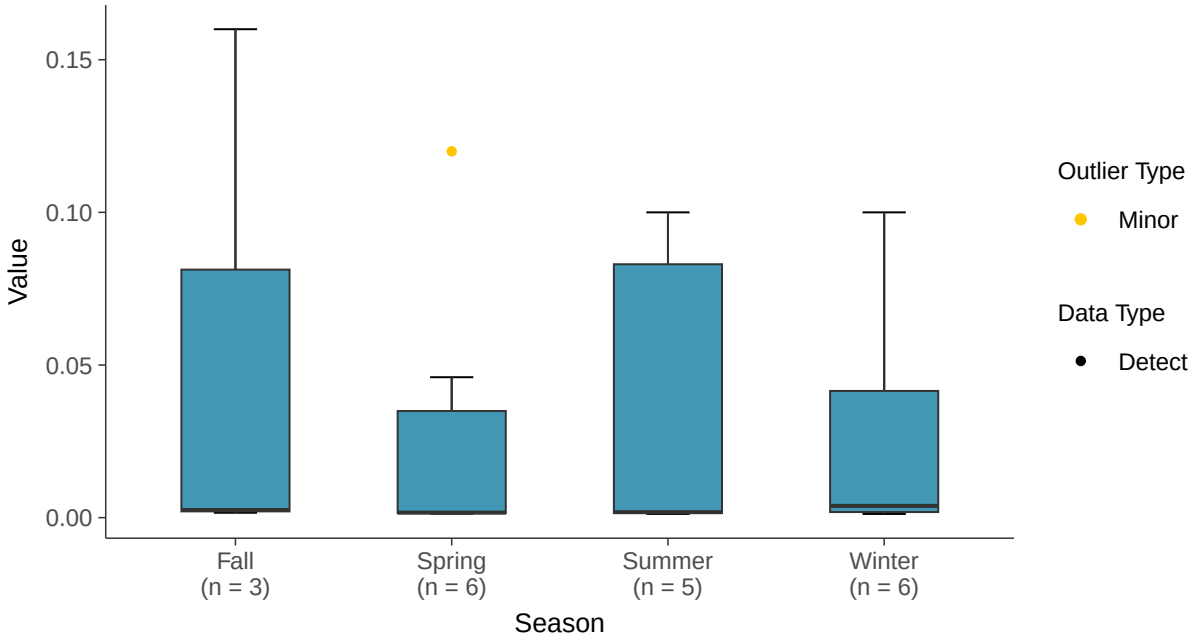
Boxplot

Zinc, MW-08 (mg/L)



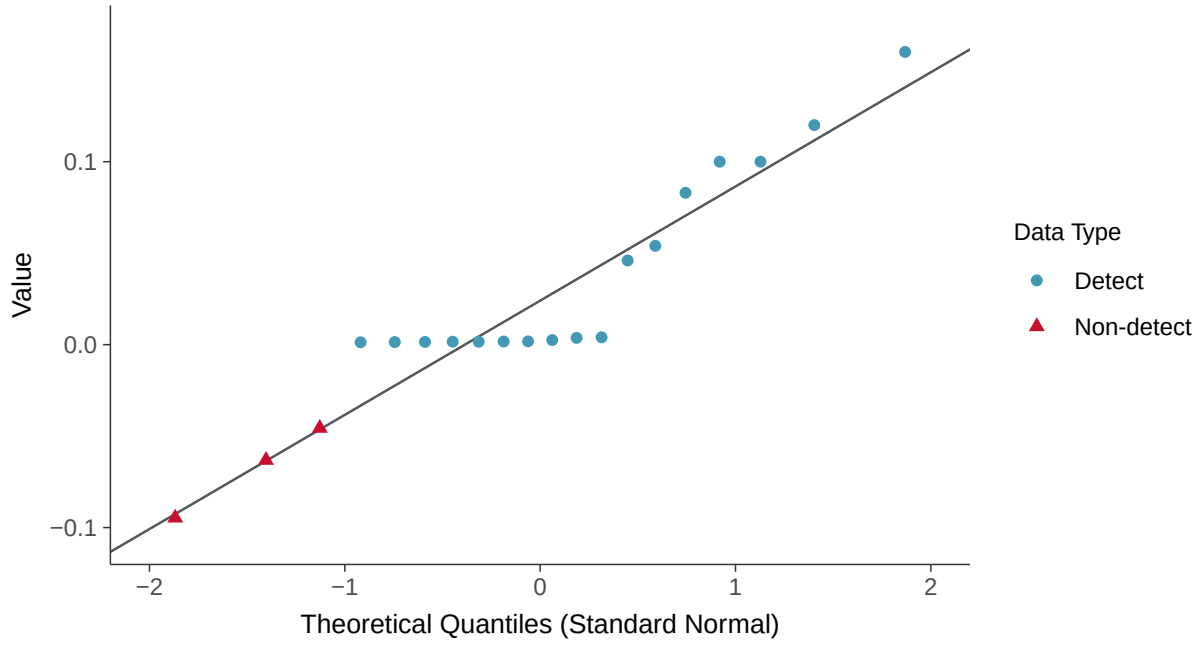
Boxplot by Season

Zinc, MW-08 (mg/L)



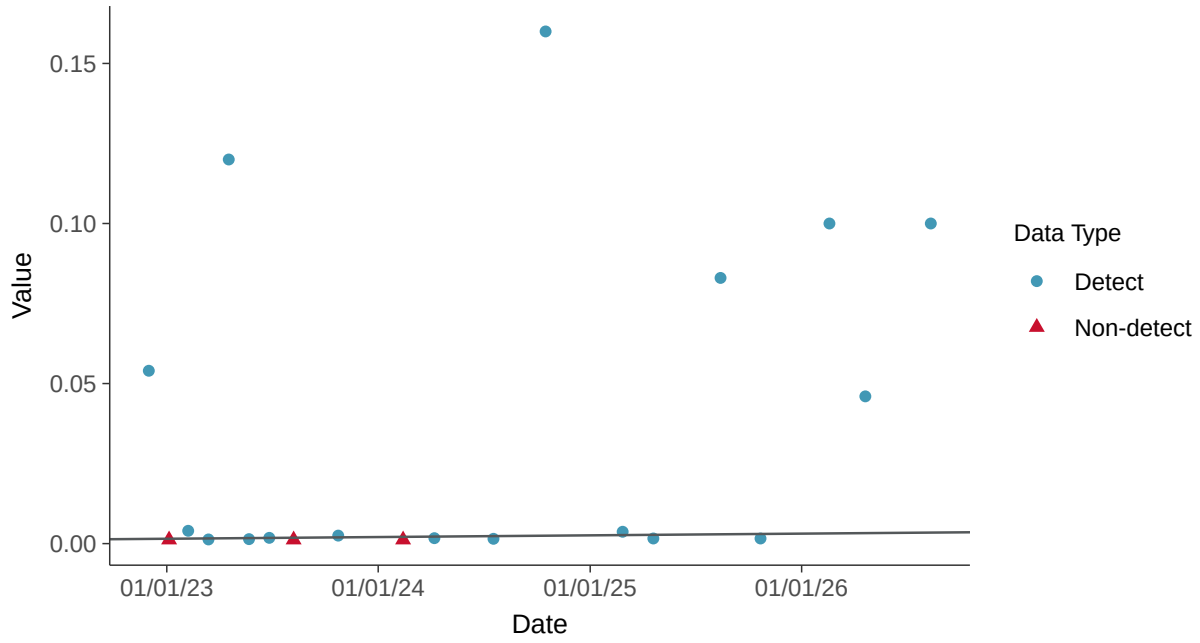
Normal Q-Q plot using ROS Imputed Estimates

Zinc, MW-08 (mg/L)



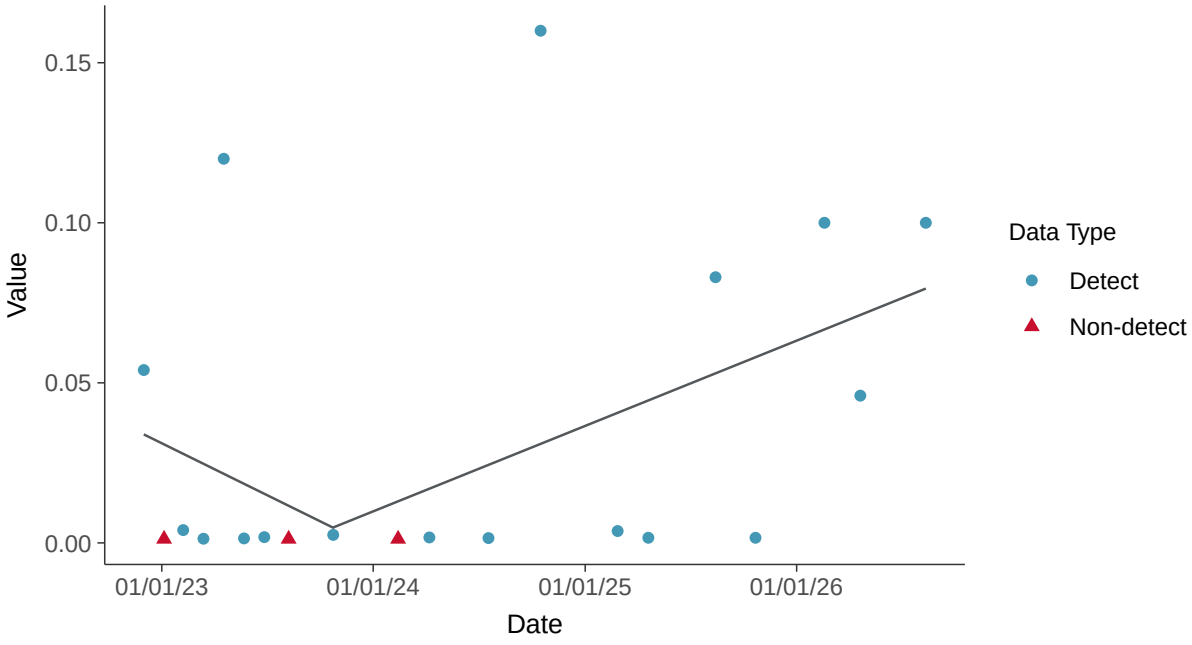
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Zinc, MW-08 (mg/L)



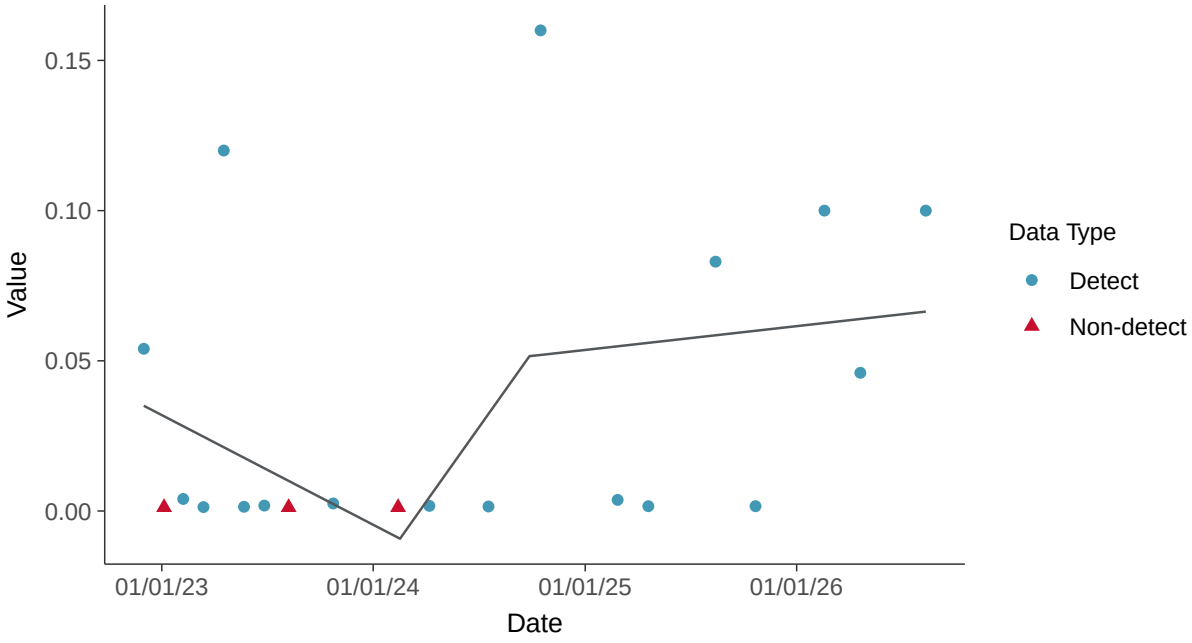
Trend Regression: Piecewise Linear-Linear

Zinc, MW-08 (mg/L)



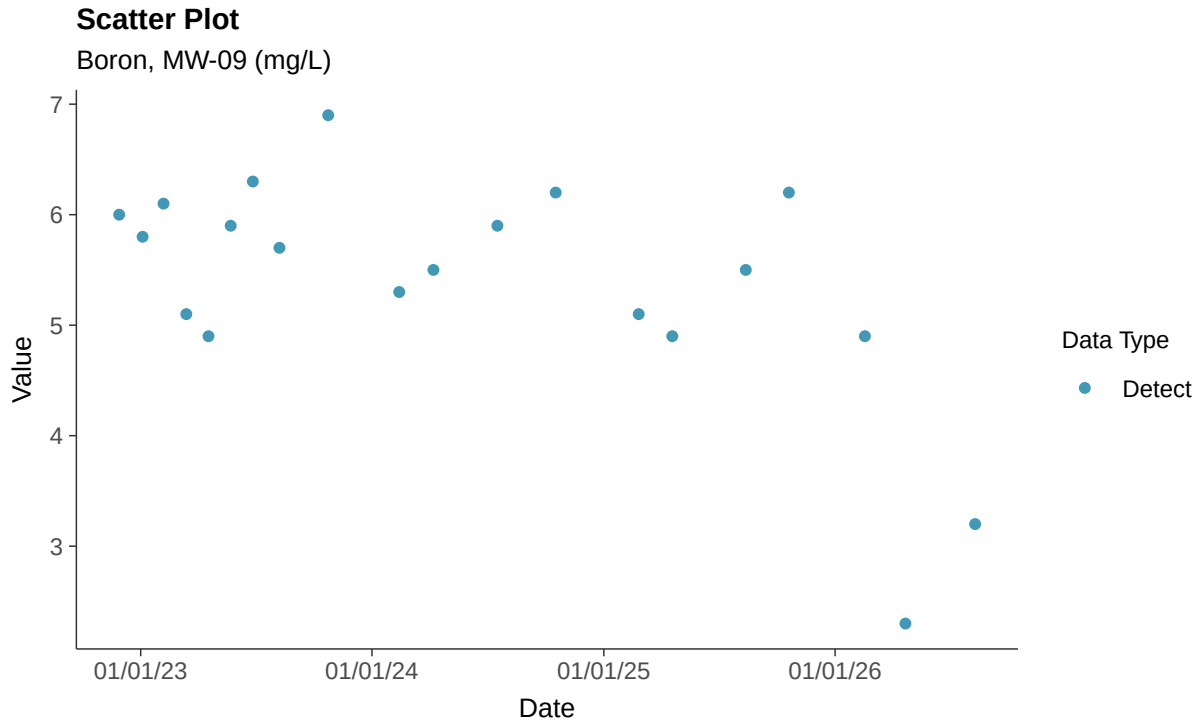
Trend Regression: Piecewise Linear-Linear-Linear

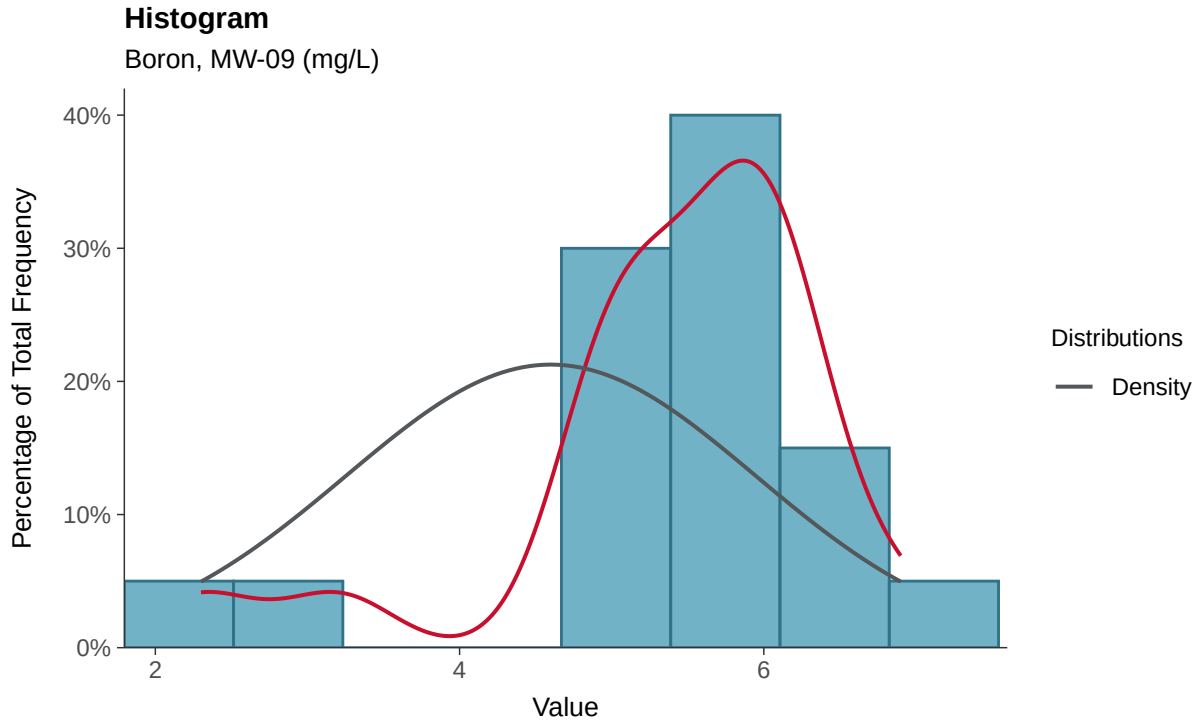
Zinc, MW-08 (mg/L)



Appendix III: Boron, MW-09

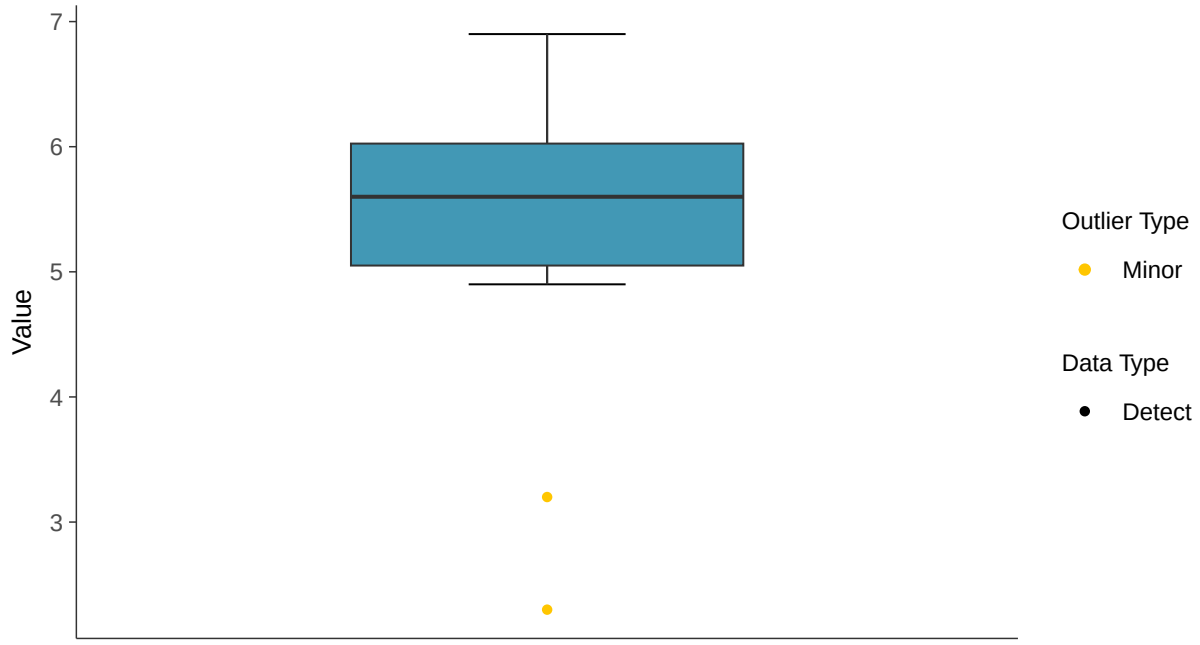
ID: 19_2_3_105





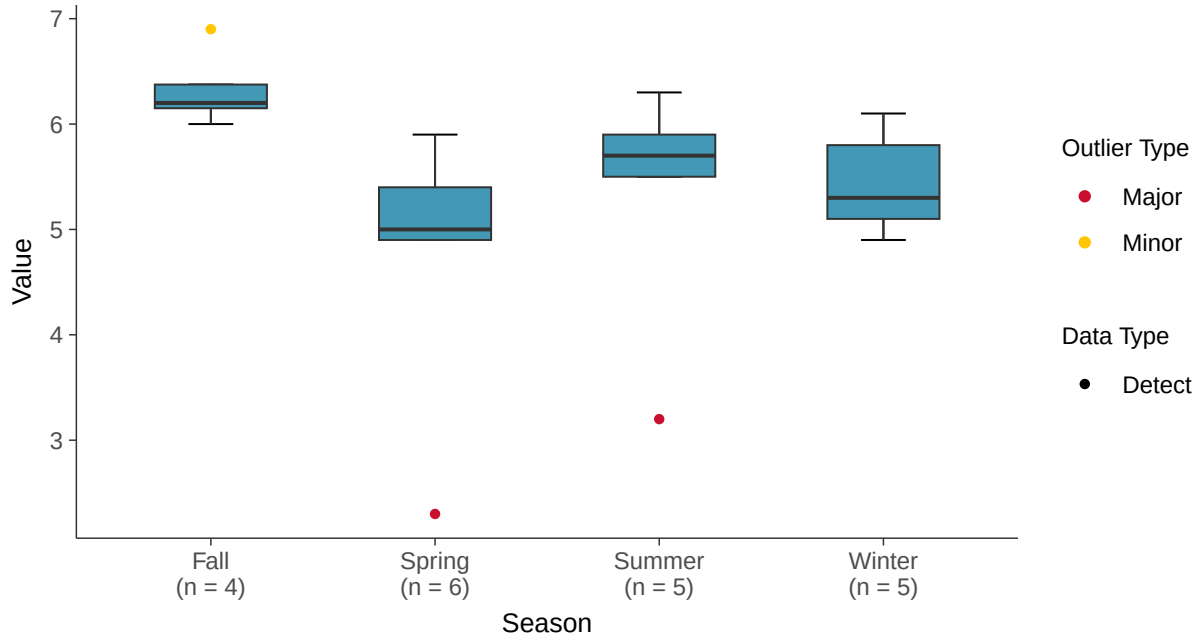
Boxplot

Boron, MW-09 (mg/L)



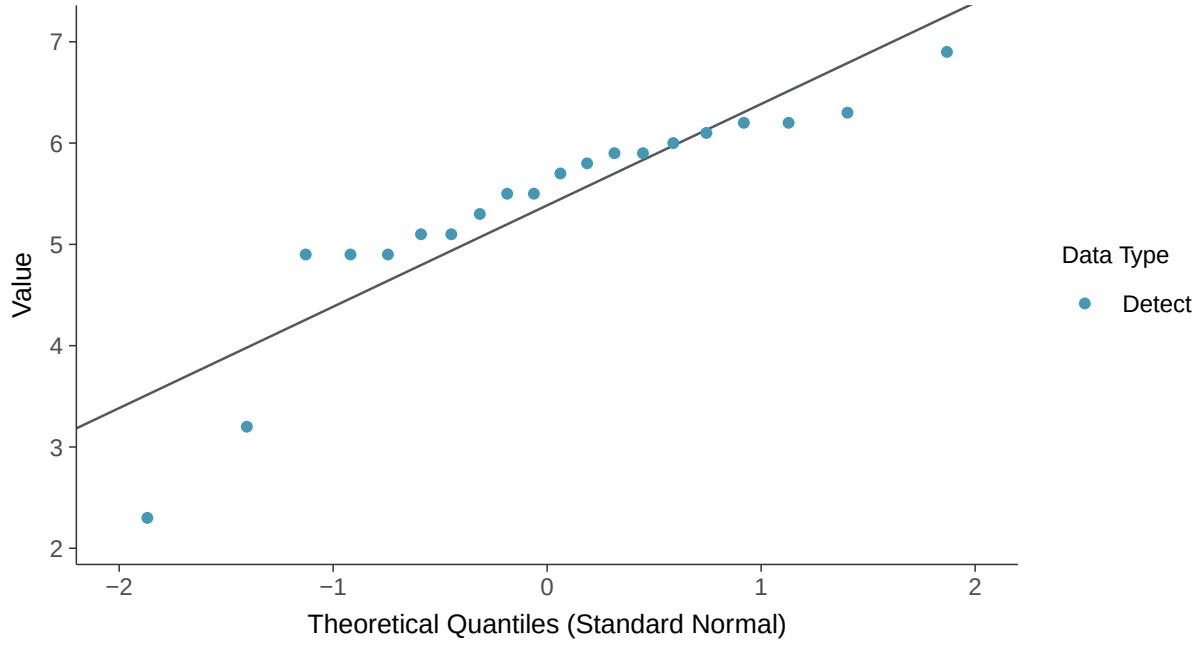
Boxplot by Season

Boron, MW-09 (mg/L)



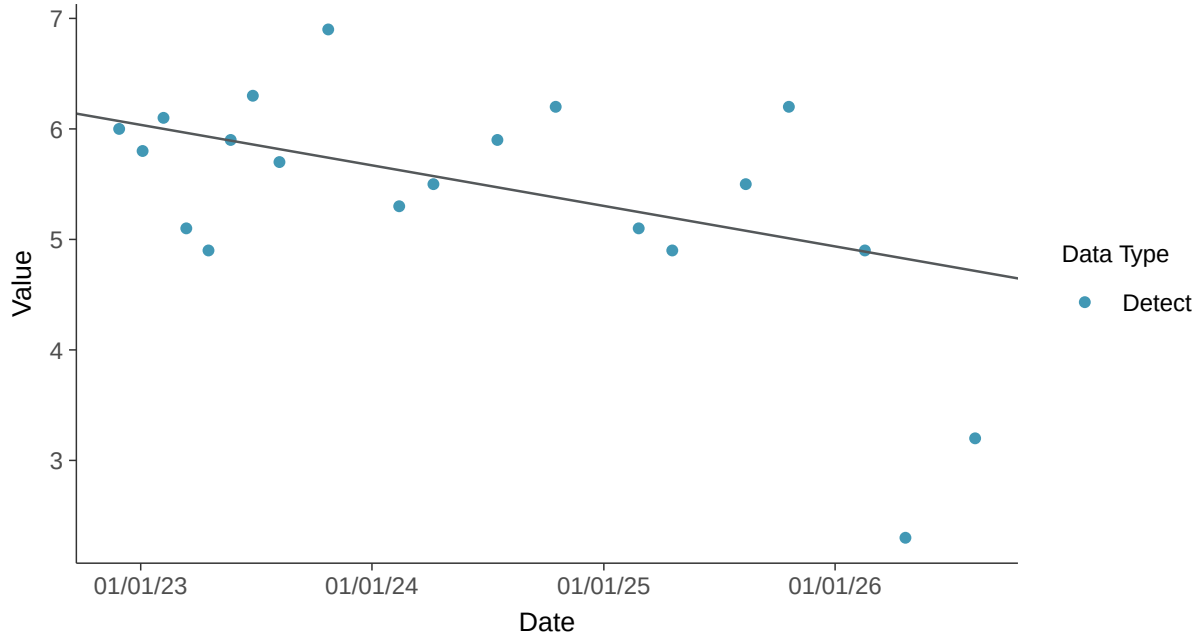
Normal Q-Q plot

Boron, MW-09 (mg/L)



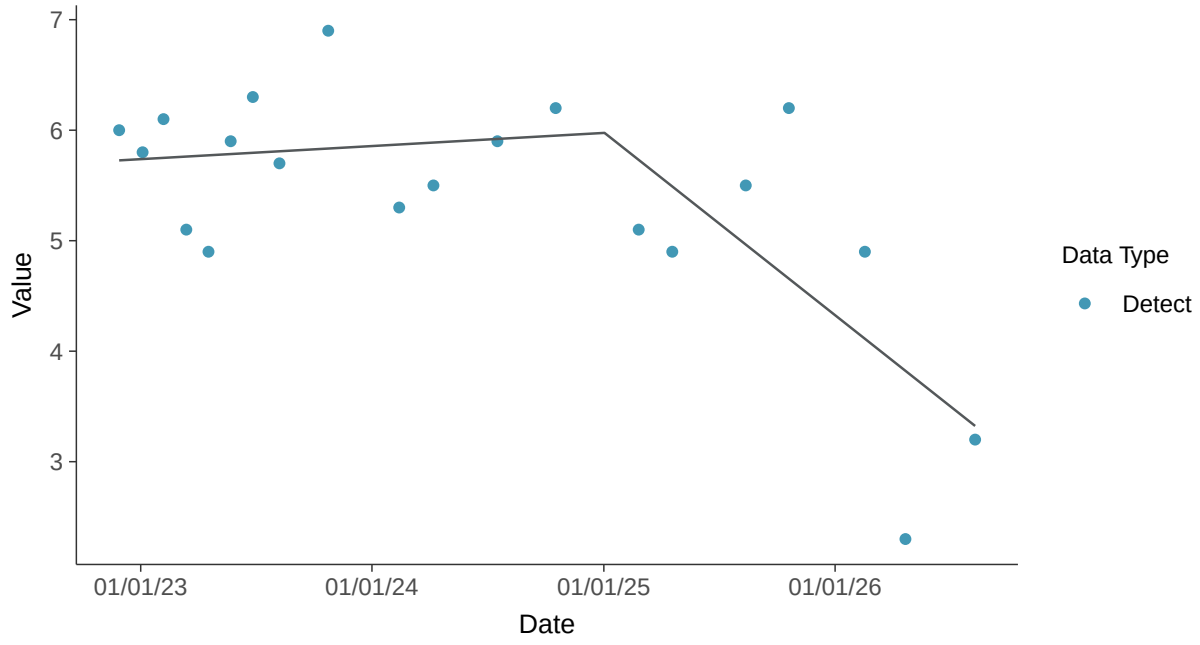
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Boron, MW-09 (mg/L)



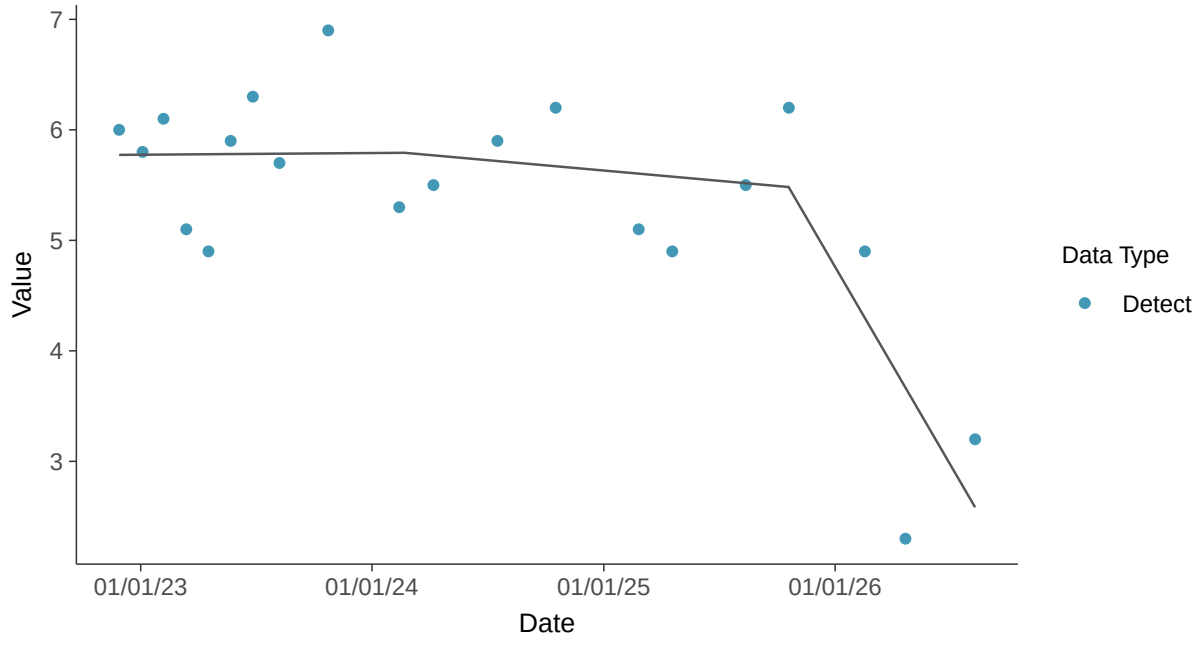
Trend Regression: Piecewise Linear-Linear

Boron, MW-09 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Boron, MW-09 (mg/L)

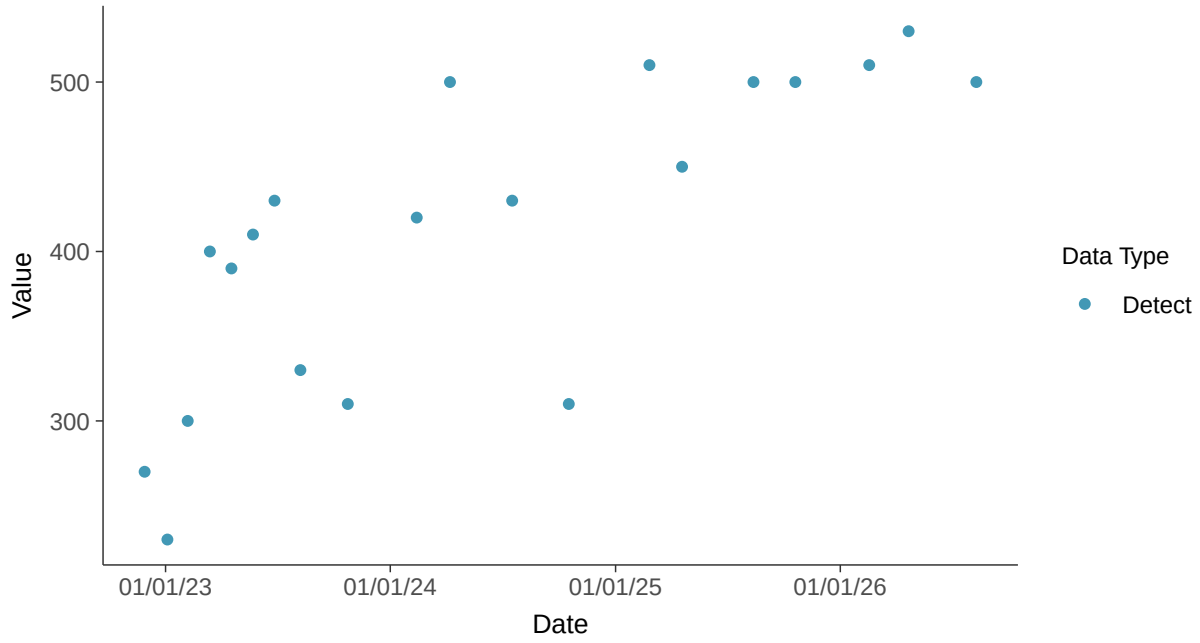


Appendix III: Calcium, MW-09

ID: 19_2_3_107

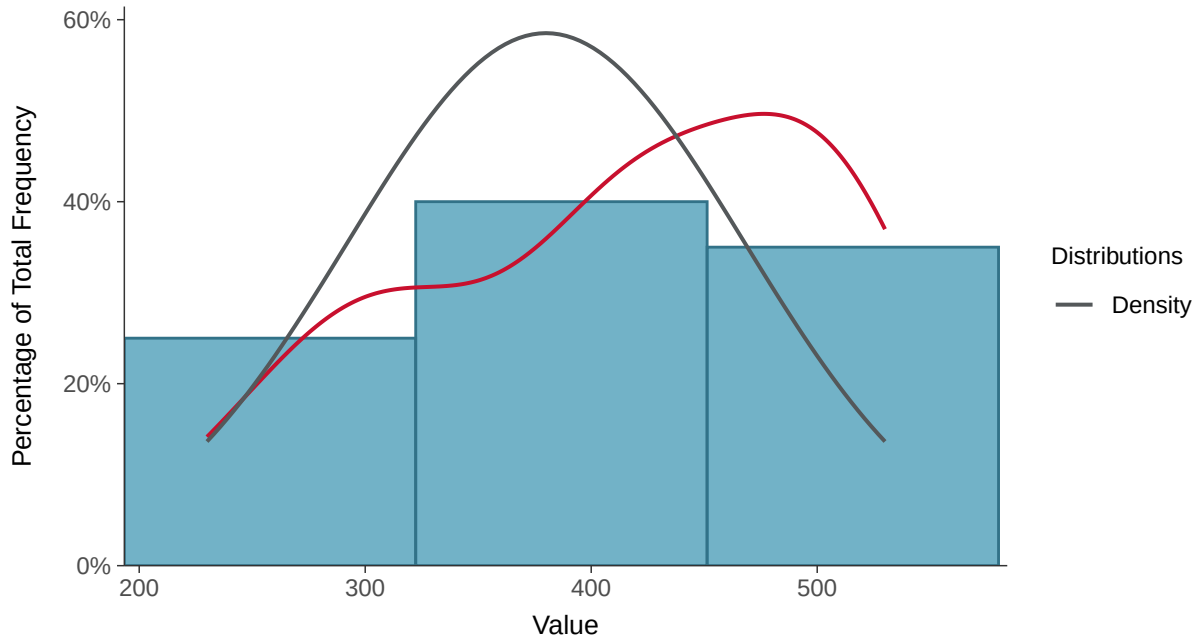
Scatter Plot

Calcium, MW-09 (mg/L)



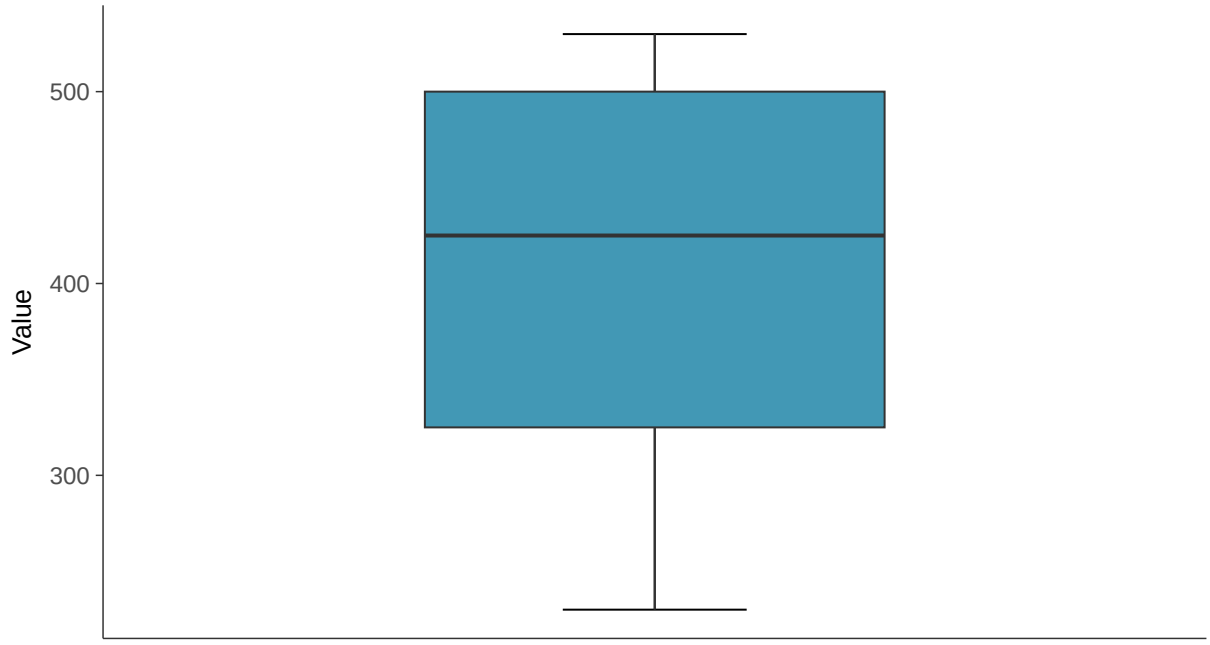
Histogram

Calcium, MW-09 (mg/L)



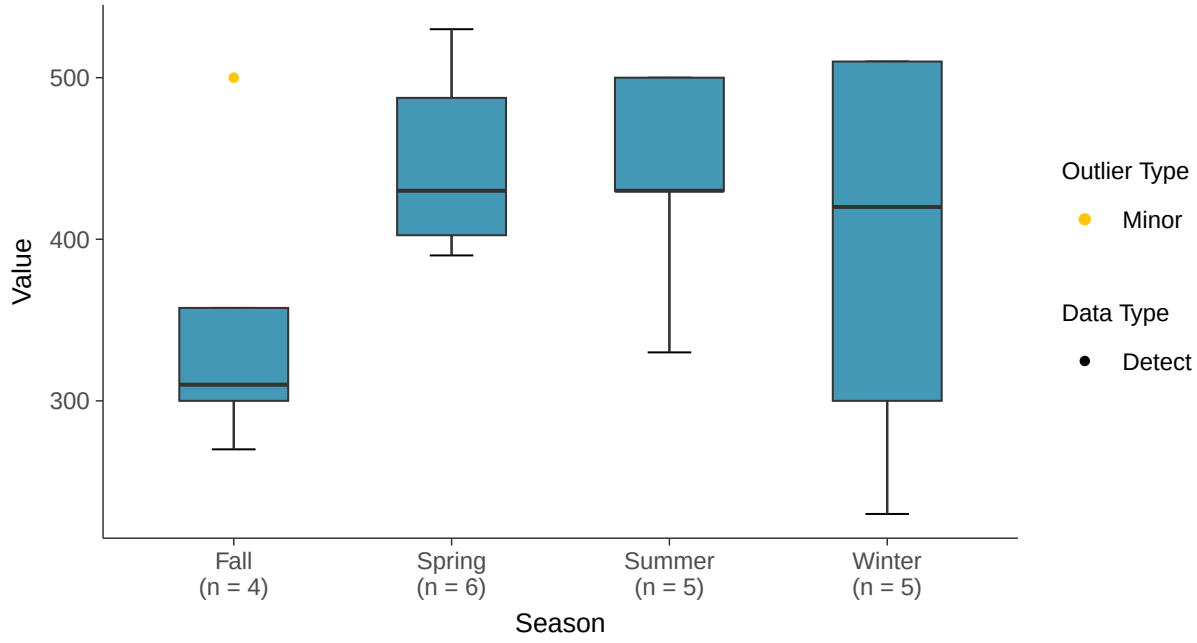
Boxplot

Calcium, MW-09 (mg/L)



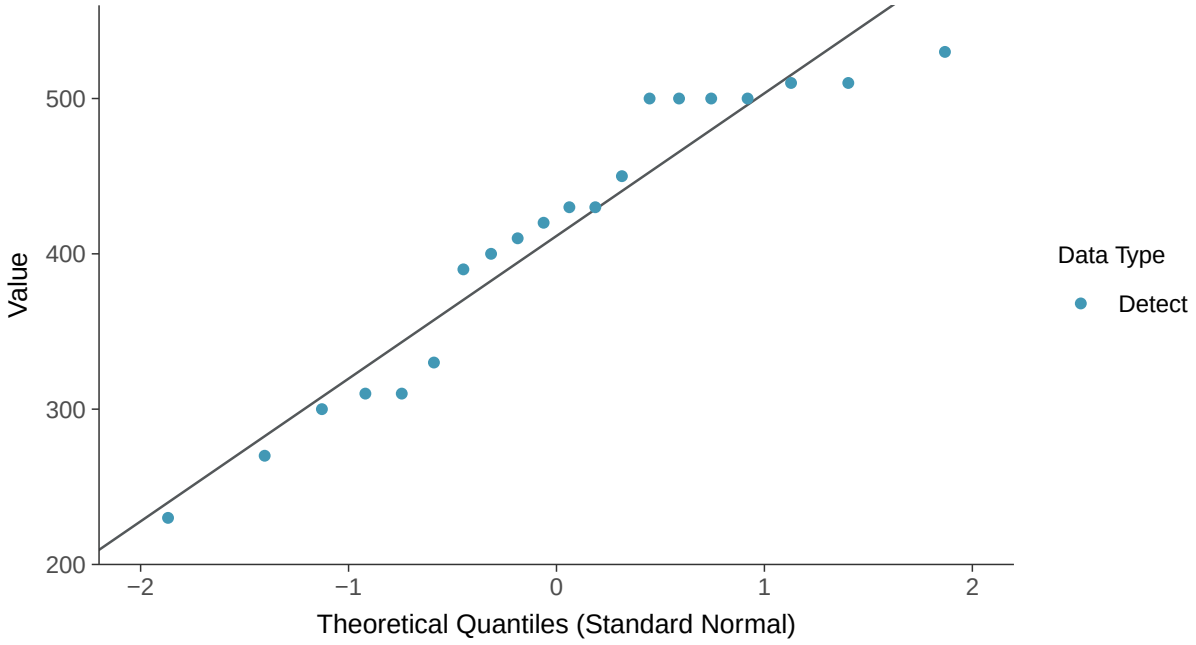
Boxplot by Season

Calcium, MW-09 (mg/L)



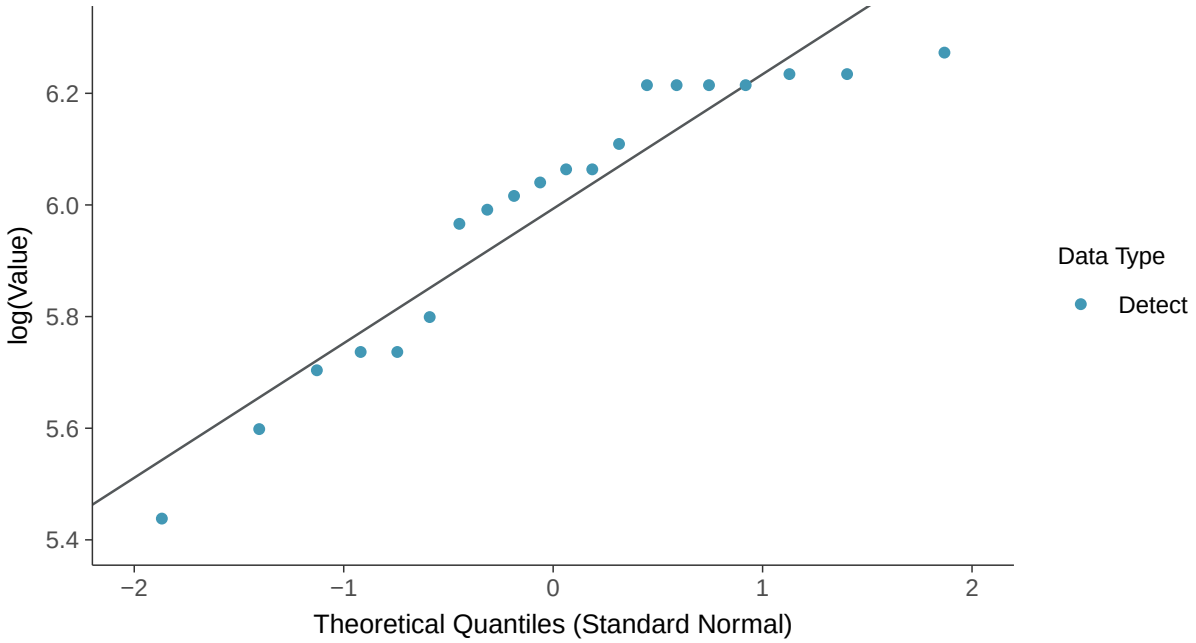
Normal Q-Q plot

Calcium, MW-09 (mg/L)



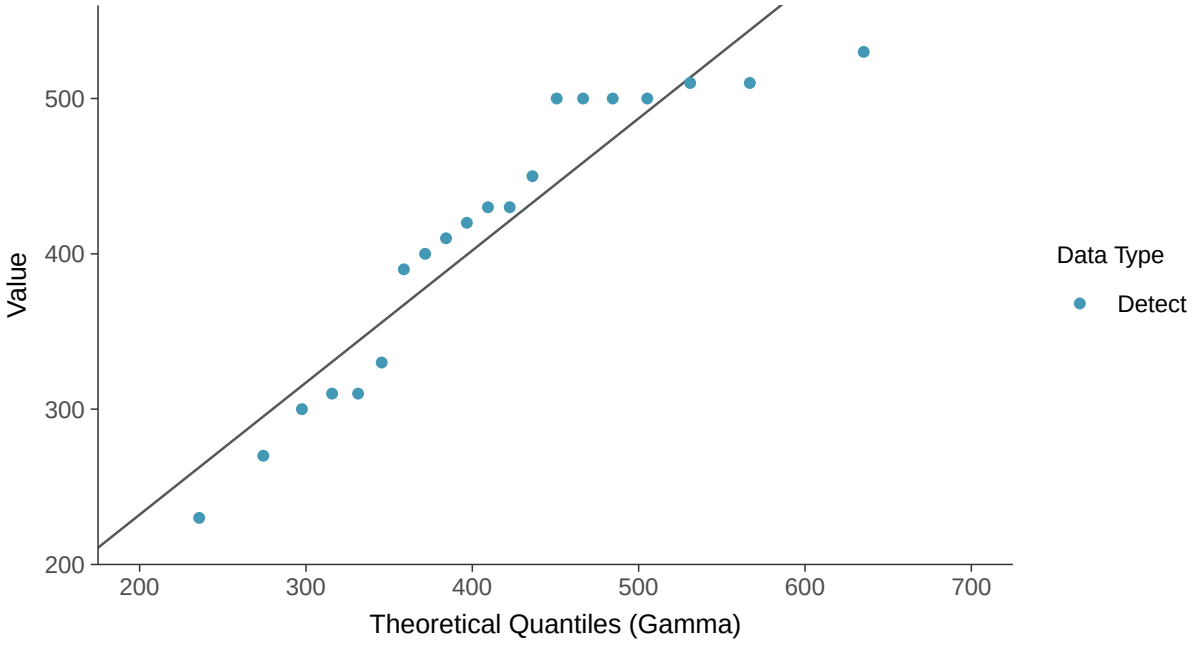
Lognormal Q-Q plot

Calcium, MW-09 (mg/L)



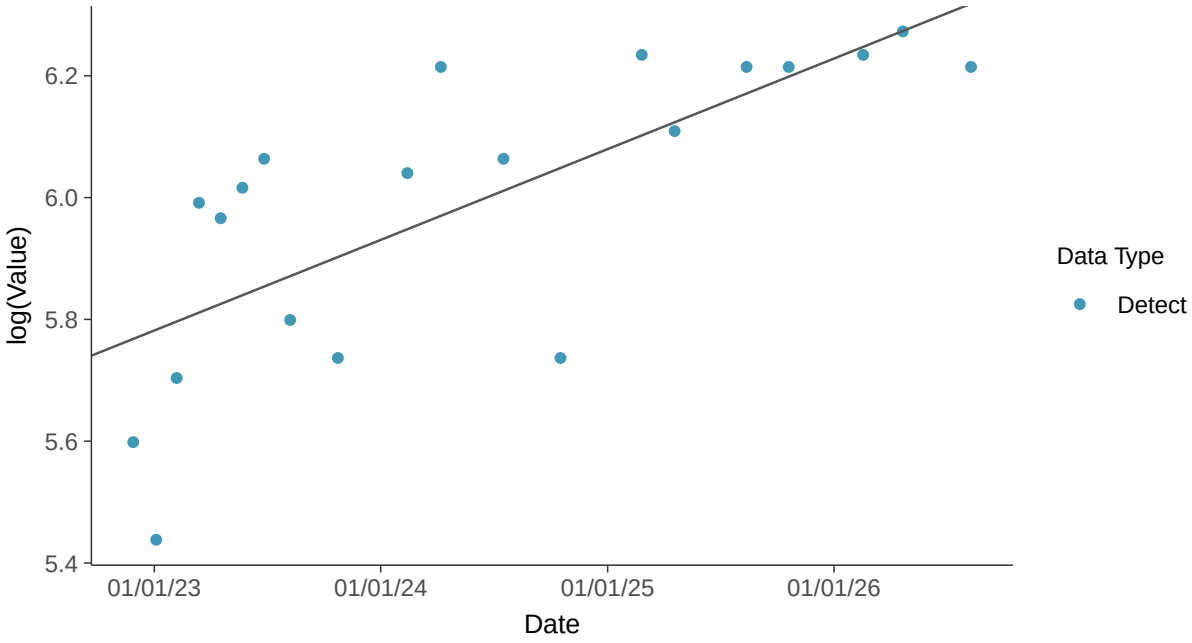
Gamma Q-Q plot

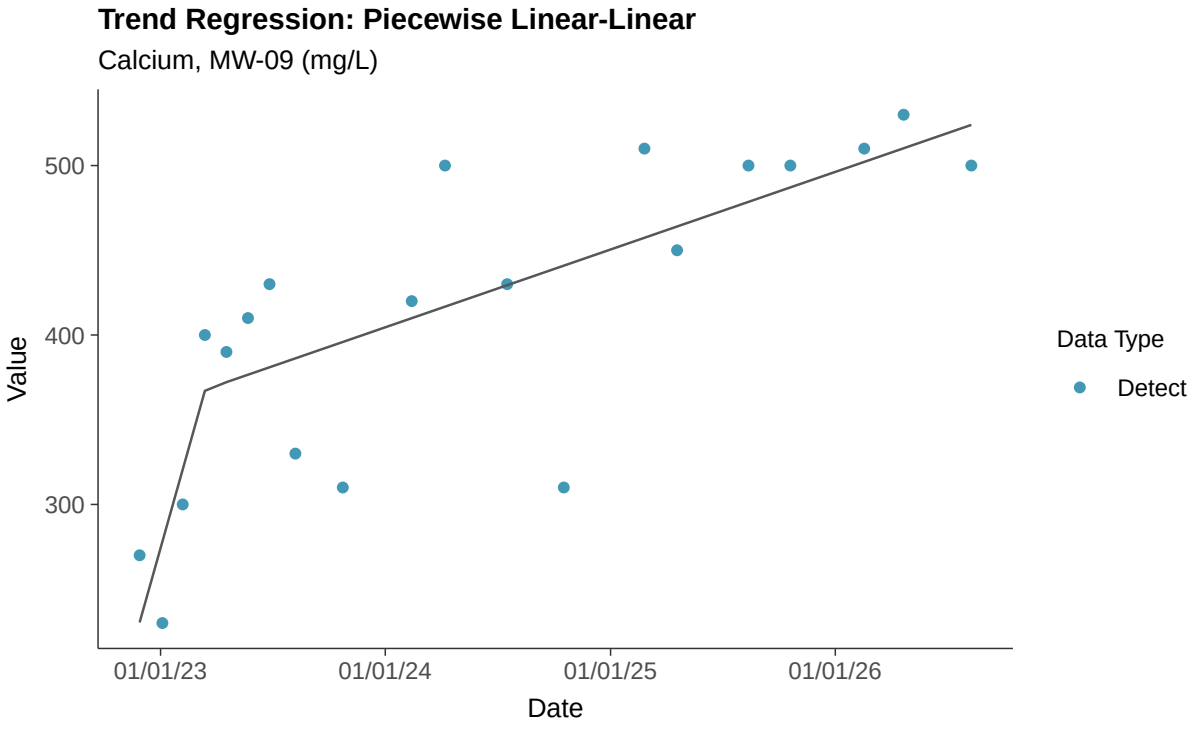
Calcium, MW-09 (mg/L)



Trend Regression: Lognormal MLE

Calcium, MW-09 (mg/L)



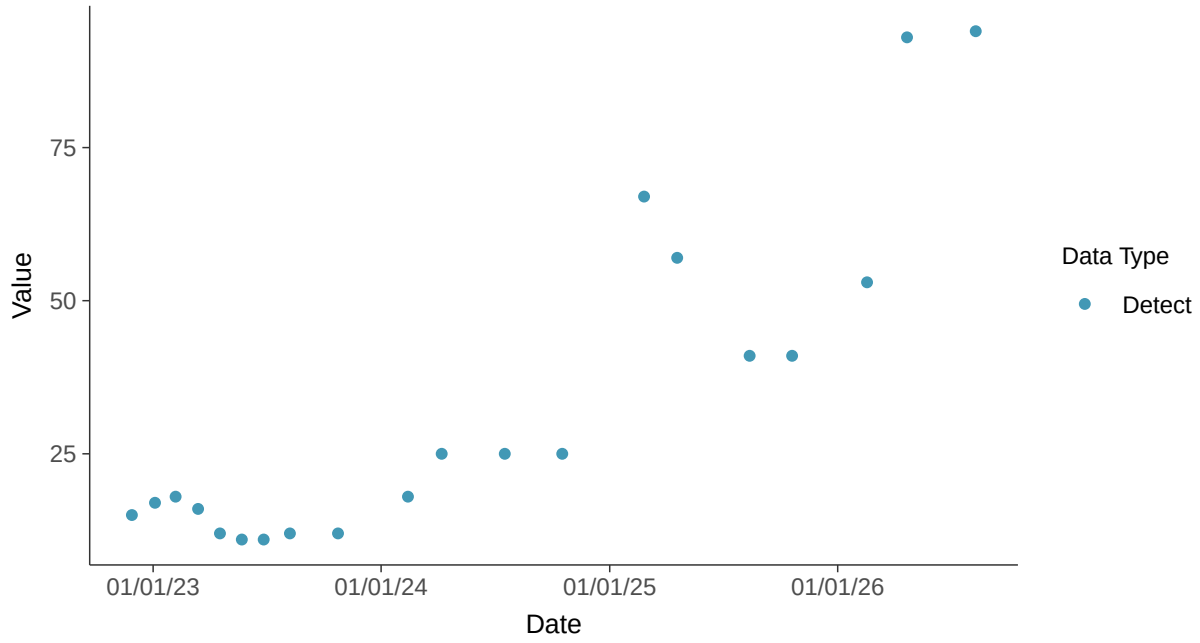

Trend Regression: Piecewise Linear-Linear
Calcium, MW-09 (mg/L)
Value
500
400
300
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect

Appendix III: Chloride (as Cl), MW-09

ID: 19_2_3_108

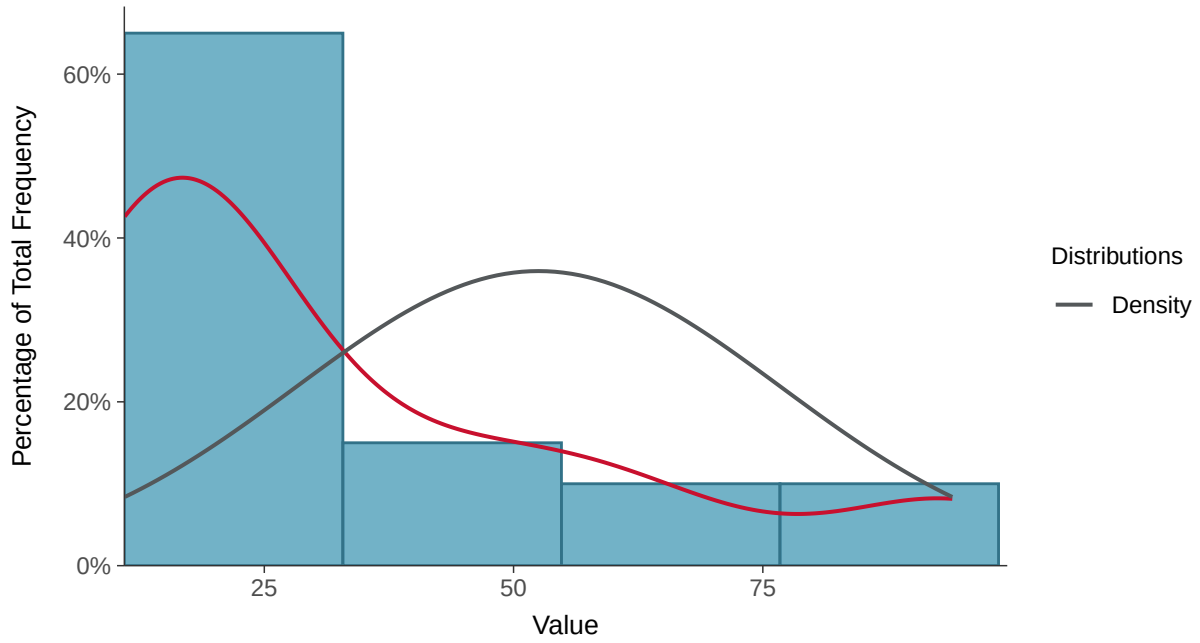
Scatter Plot

Chloride (as Cl), MW-09 (mg/L)



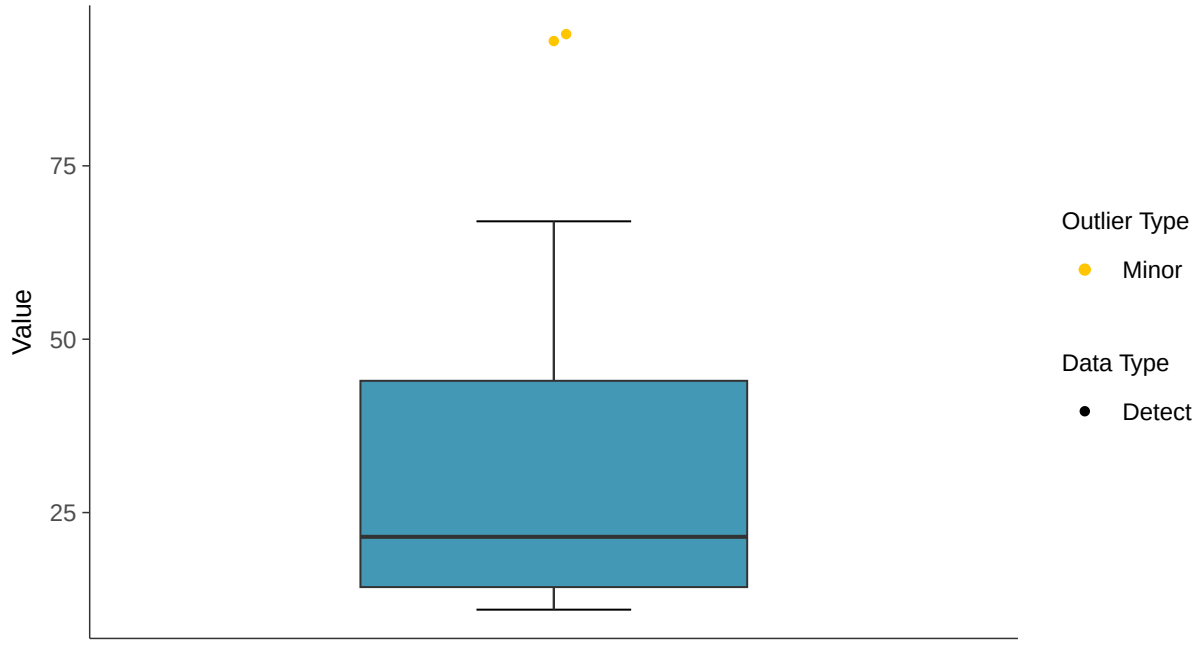
Histogram

Chloride (as Cl), MW-09 (mg/L)



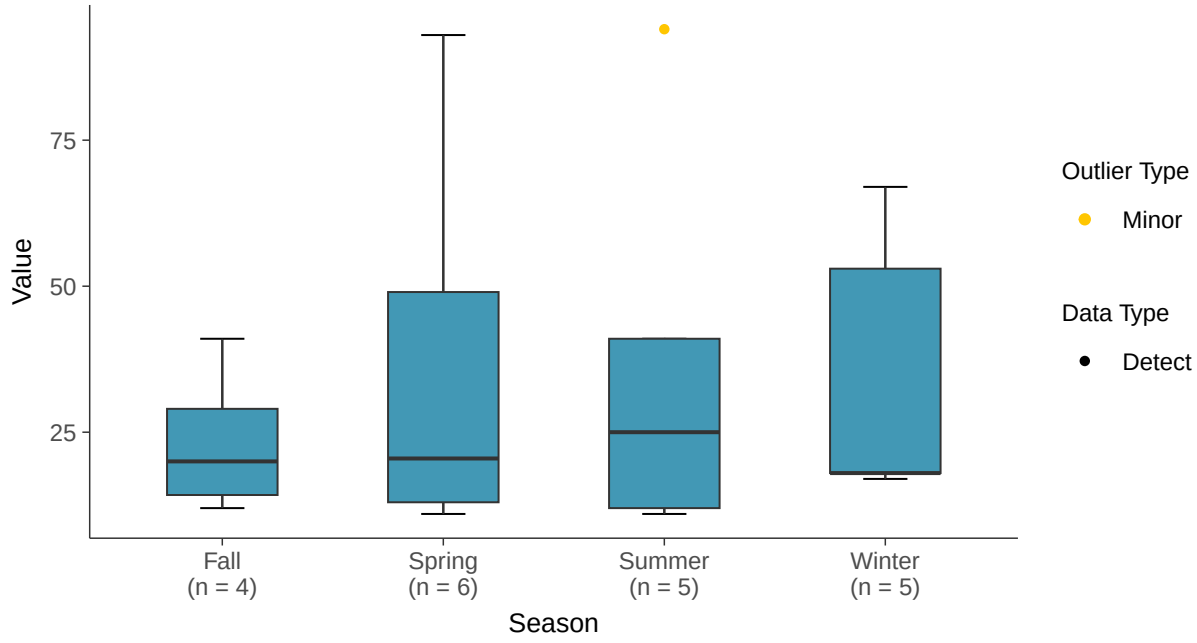
Boxplot

Chloride (as Cl), MW-09 (mg/L)



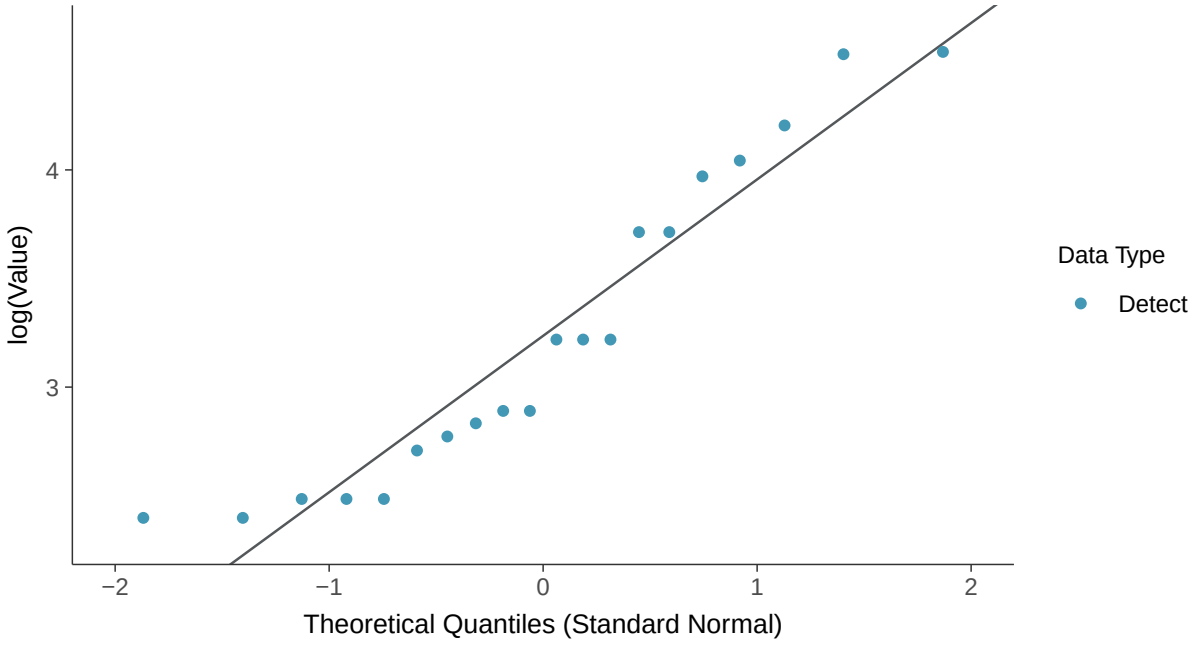
Boxplot by Season

Chloride (as Cl), MW-09 (mg/L)



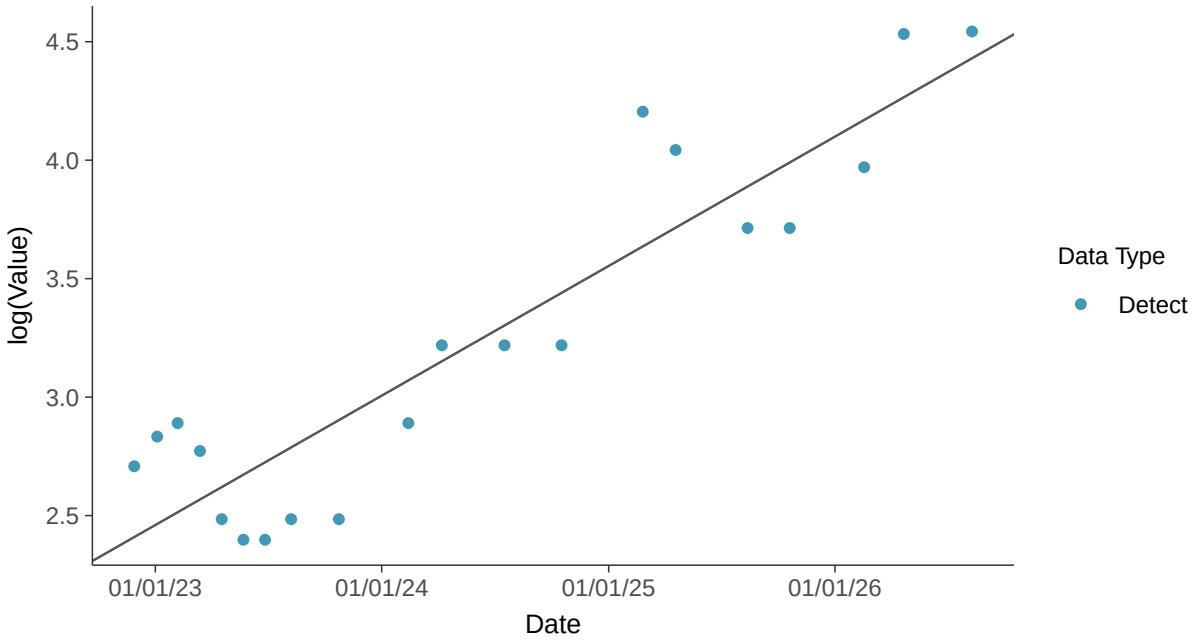
Lognormal Q-Q plot

Chloride (as Cl), MW-09 (mg/L)



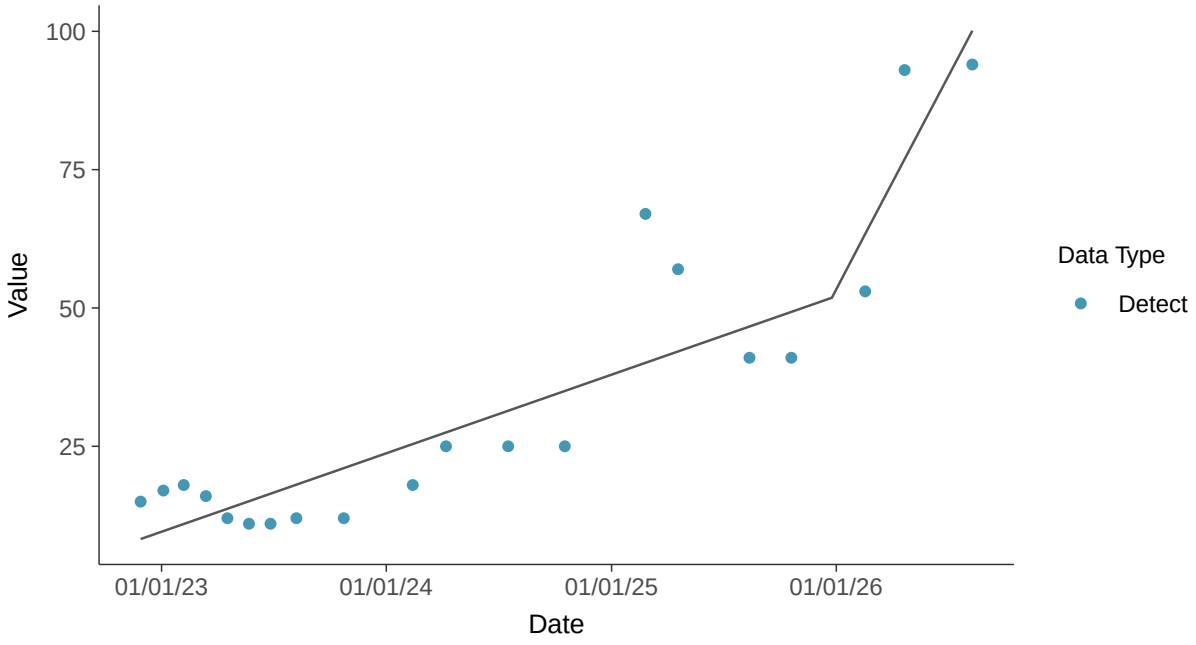
Trend Regression: Lognormal MLE

Chloride (as Cl), MW-09 (mg/L)



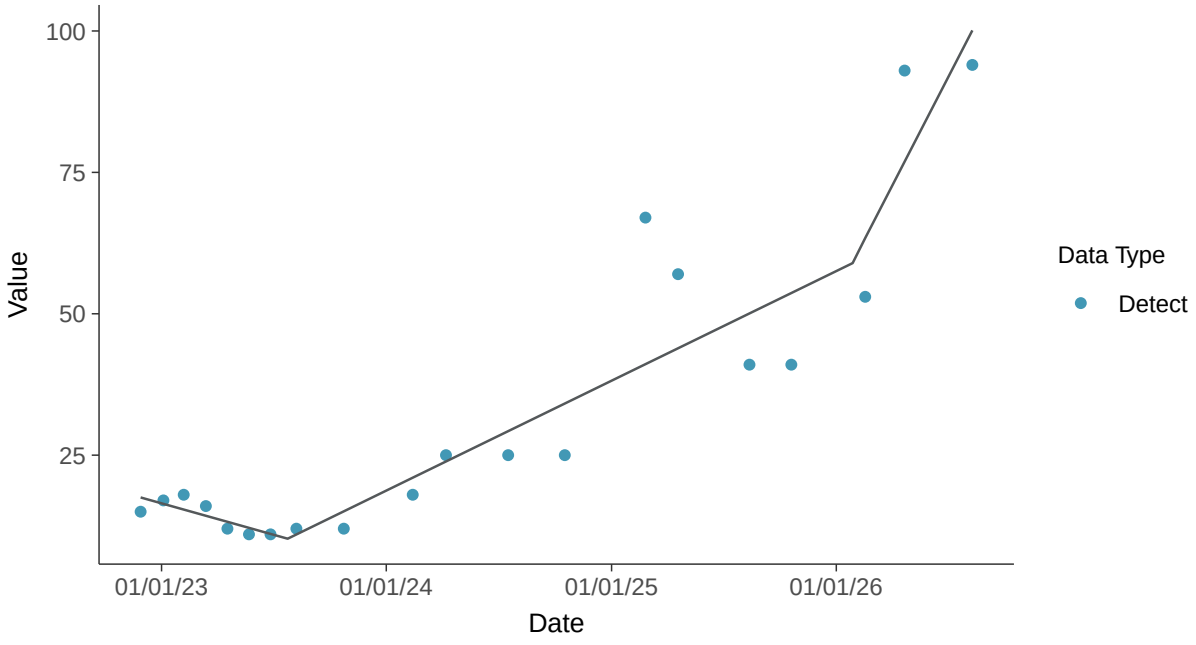
Trend Regression: Piecewise Linear-Linear

Chloride (as Cl), MW-09 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Chloride (as Cl), MW-09 (mg/L)

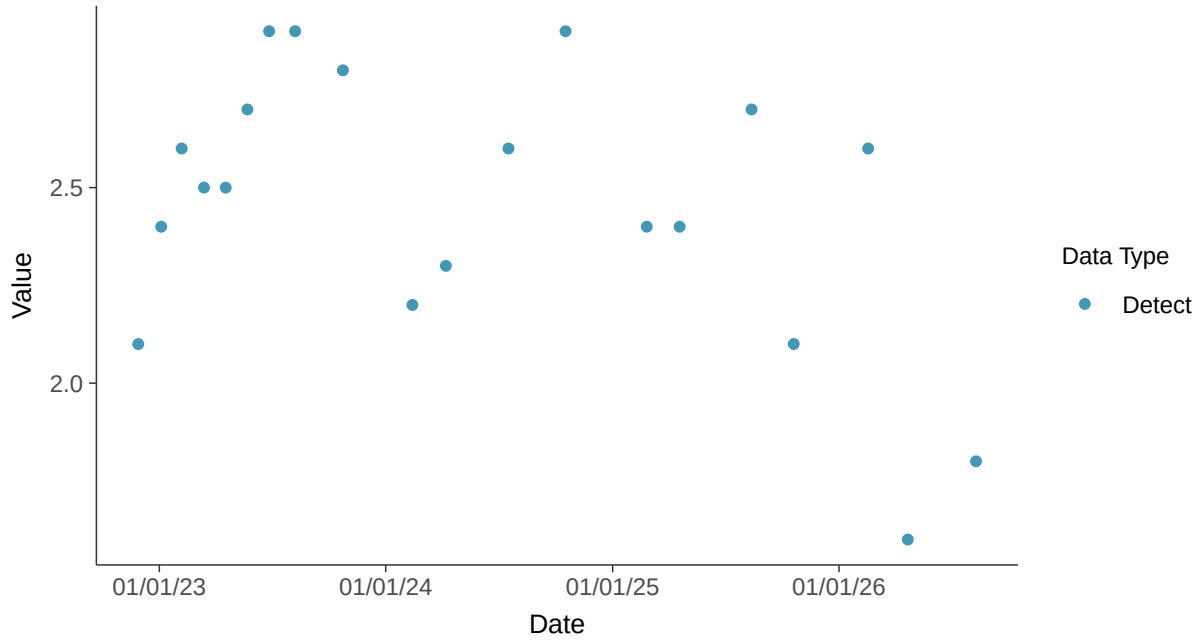


Appendix III: Fluoride, MW-09

ID: 19_2_3_112

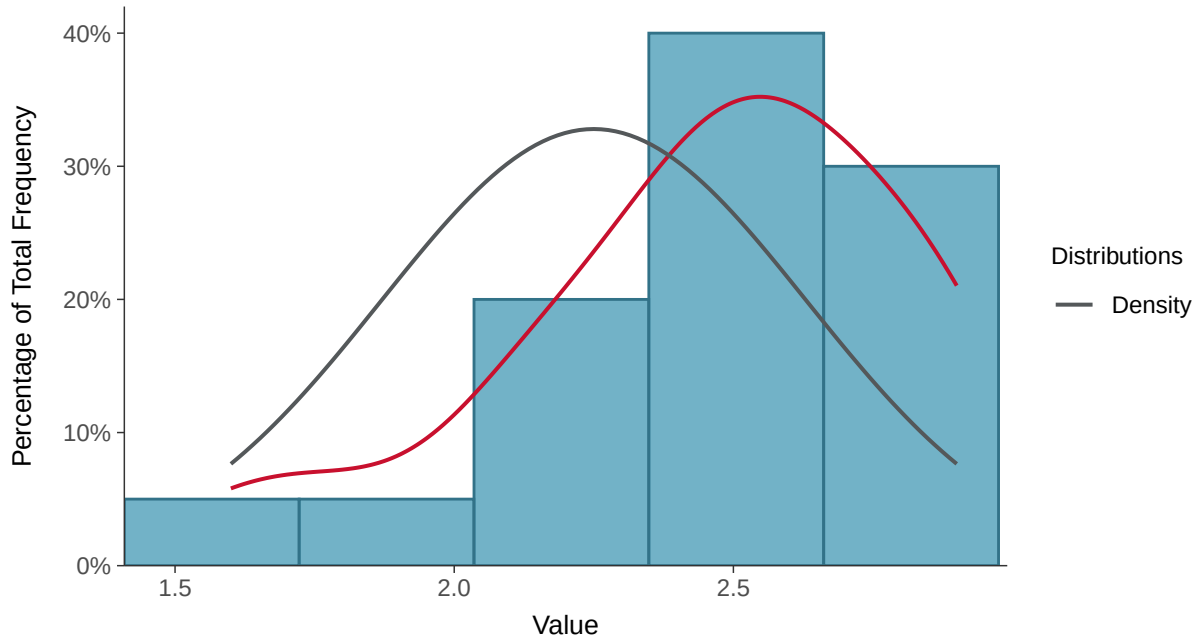
Scatter Plot

Fluoride, MW-09 (mg/L)



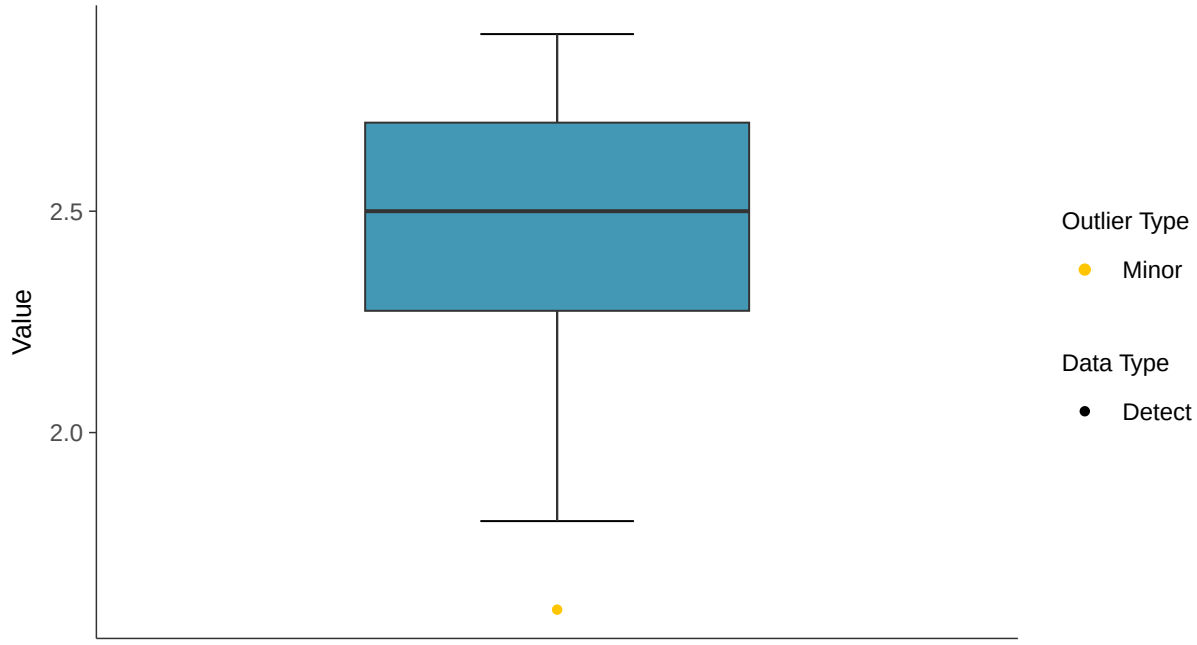
Histogram

Fluoride, MW-09 (mg/L)



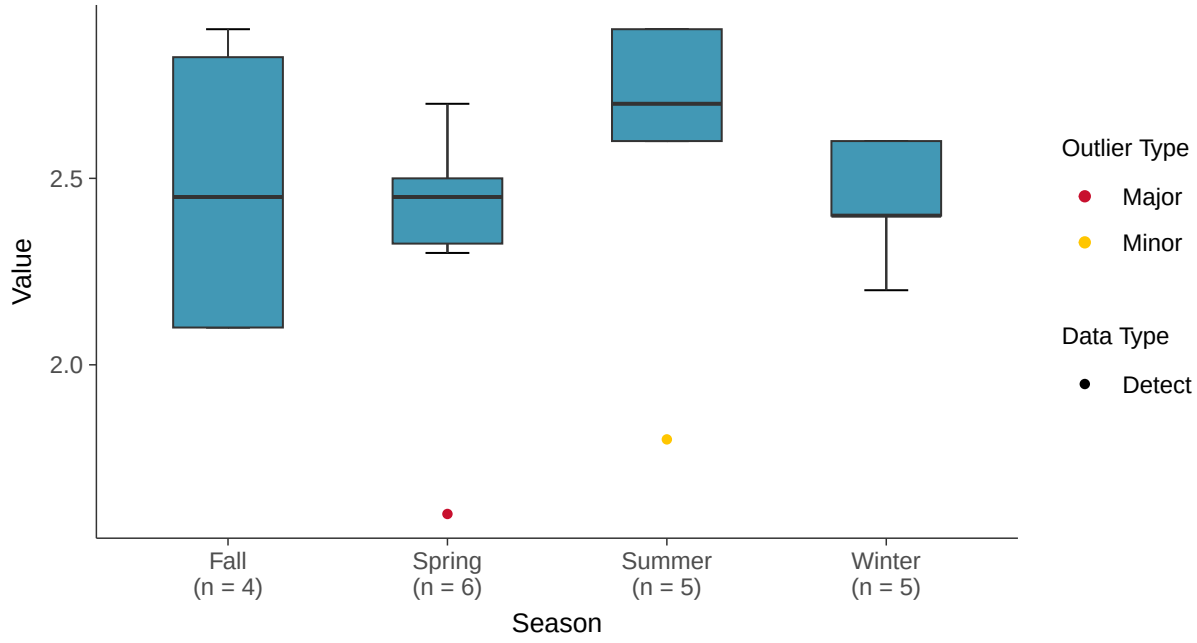
Boxplot

Fluoride, MW-09 (mg/L)



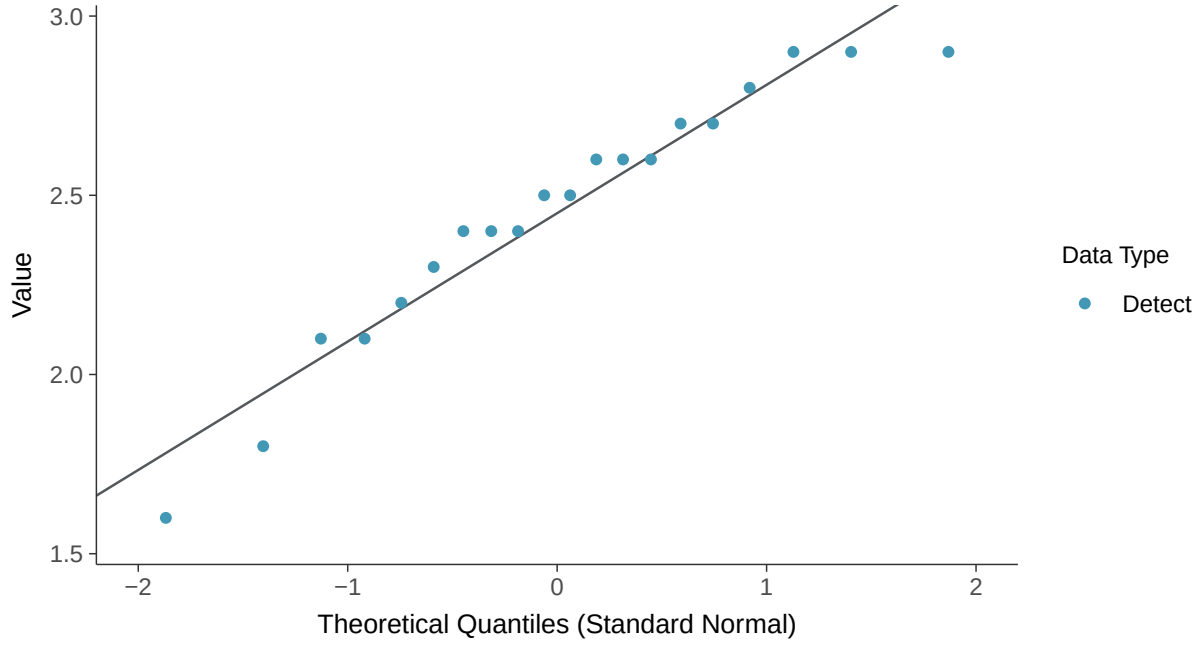
Boxplot by Season

Fluoride, MW-09 (mg/L)



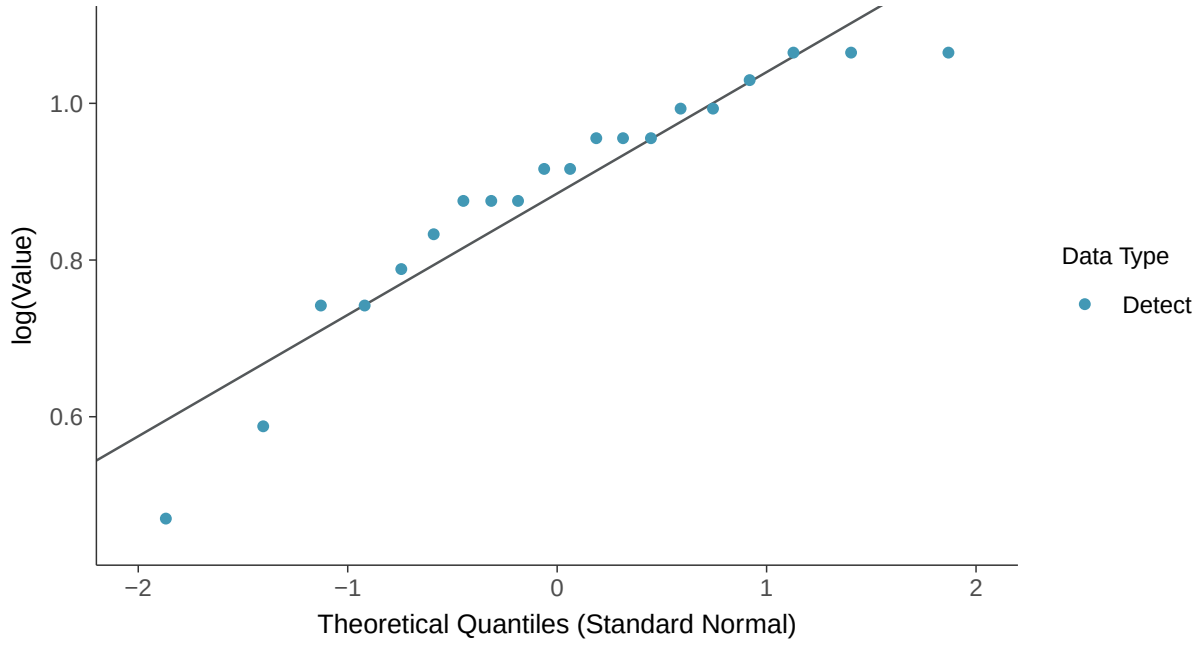
Normal Q-Q plot

Fluoride, MW-09 (mg/L)



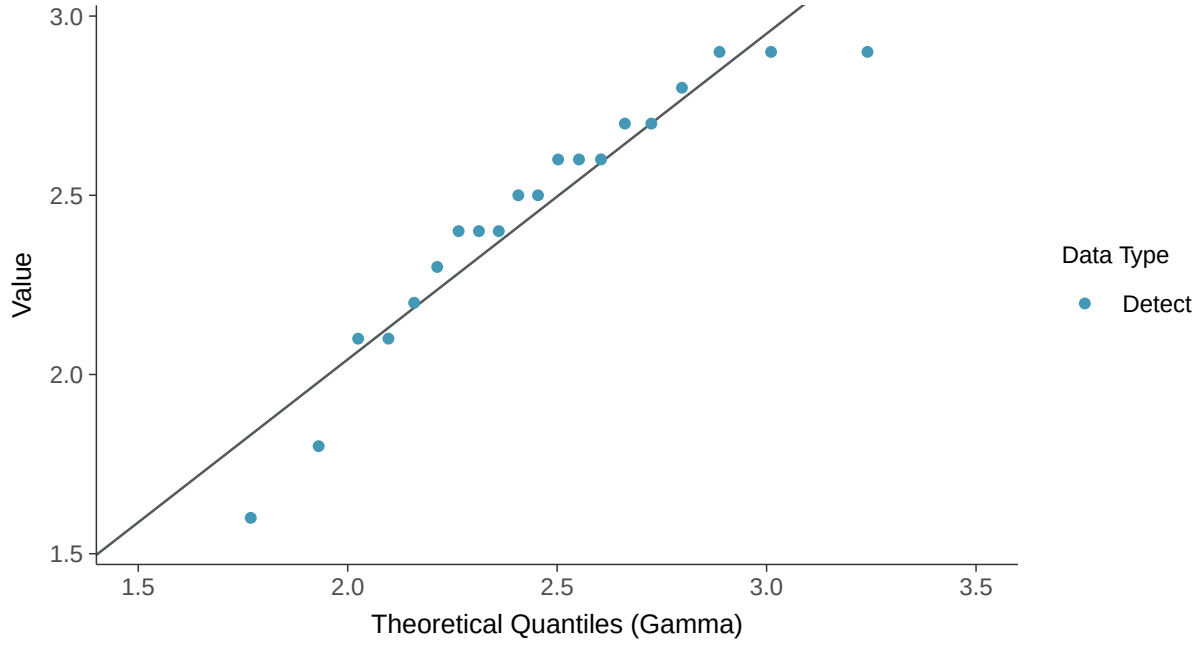
Lognormal Q-Q plot

Fluoride, MW-09 (mg/L)



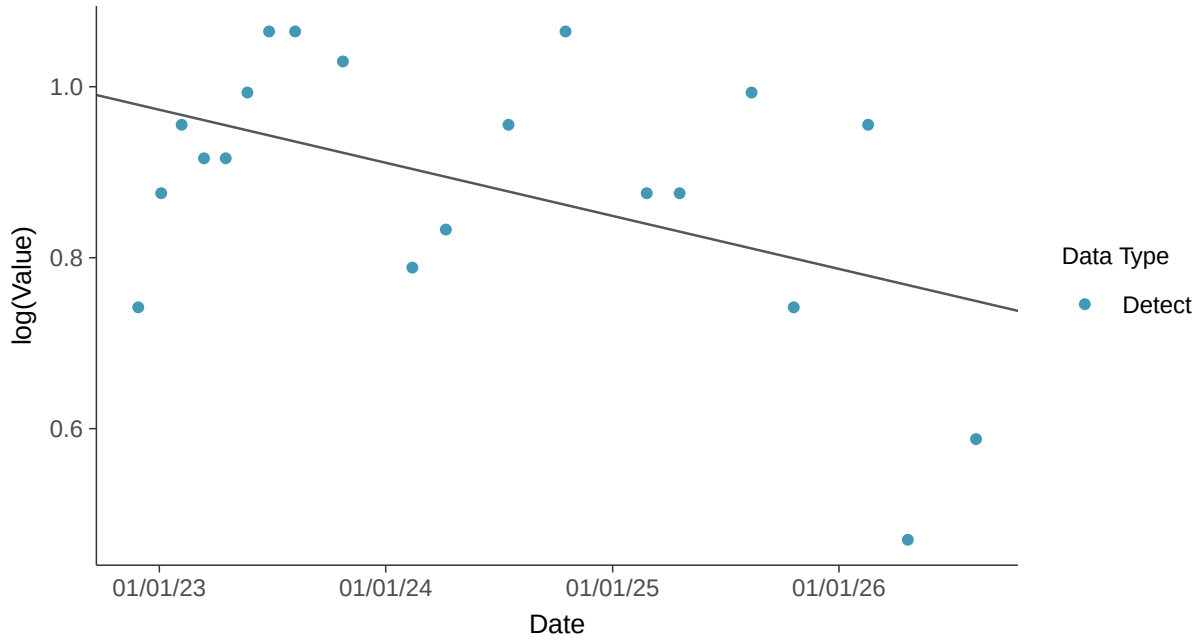
Gamma Q-Q plot

Fluoride, MW-09 (mg/L)



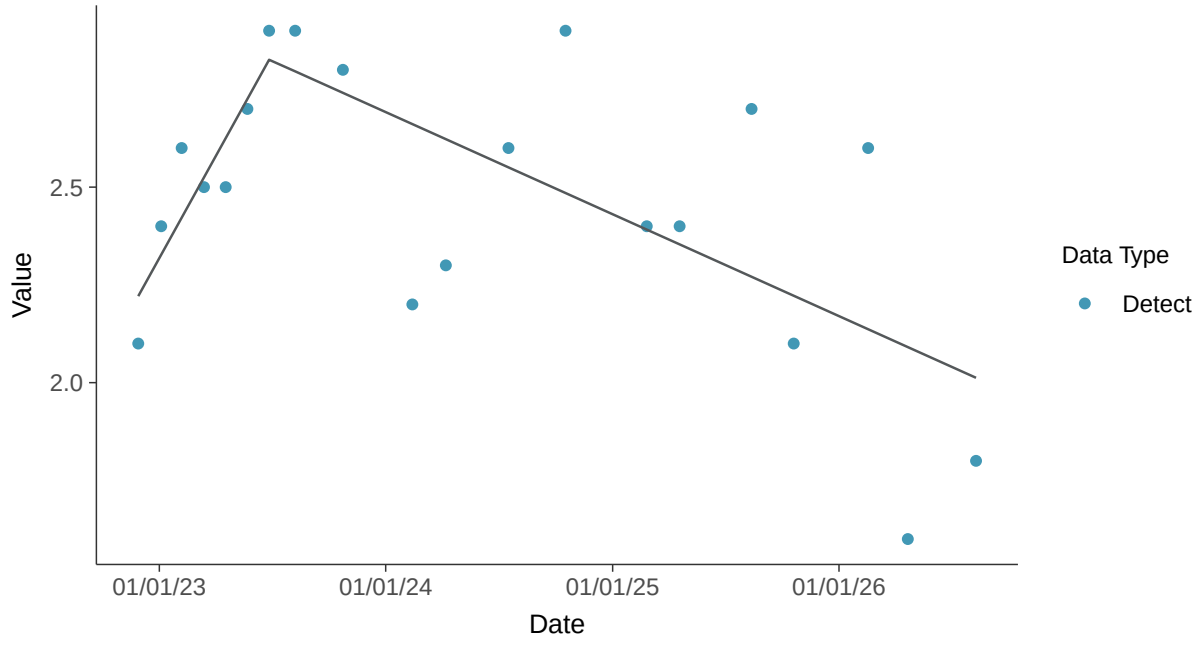
Trend Regression: Lognormal MLE

Fluoride, MW-09 (mg/L)



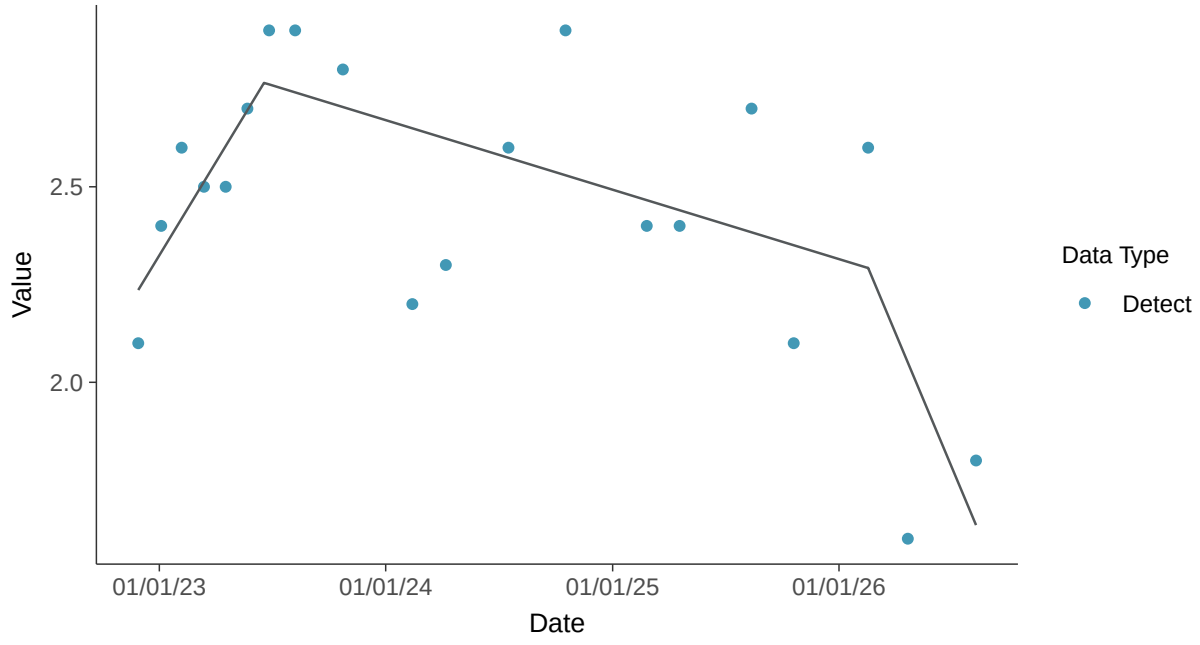
Trend Regression: Piecewise Linear-Linear

Fluoride, MW-09 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Fluoride, MW-09 (mg/L)

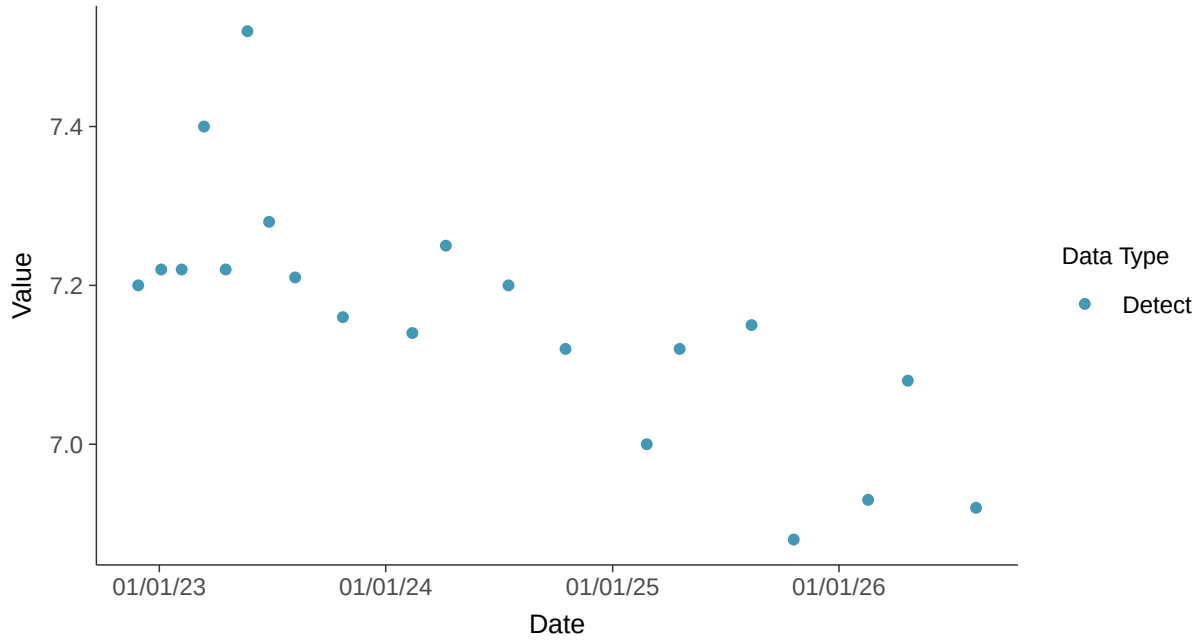


Appendix III: pH (field), MW-09

ID: 19_2_3_120

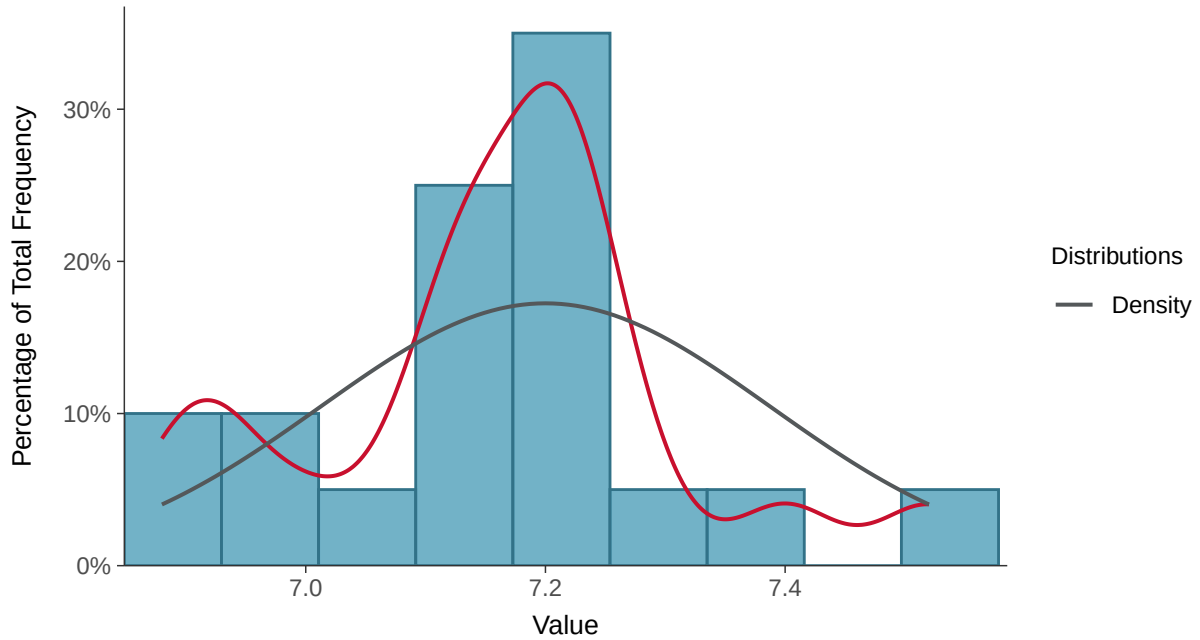
Scatter Plot

pH (field), MW-09 (su)



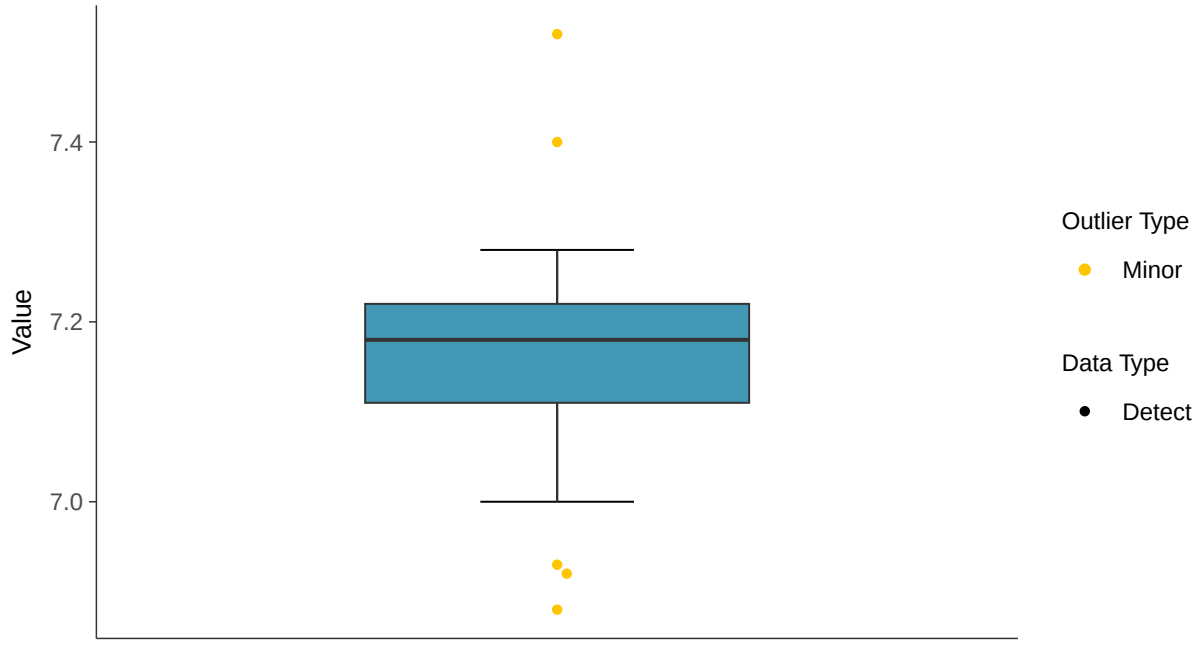
Histogram

pH (field), MW-09 (su)



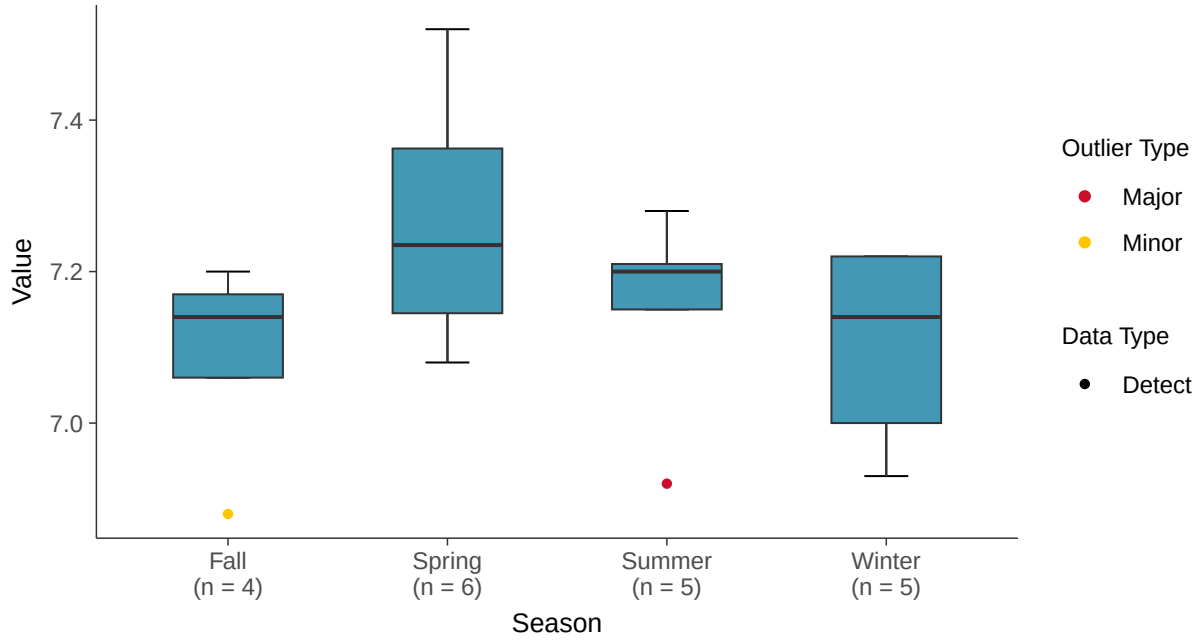
Boxplot

pH (field), MW-09 (su)



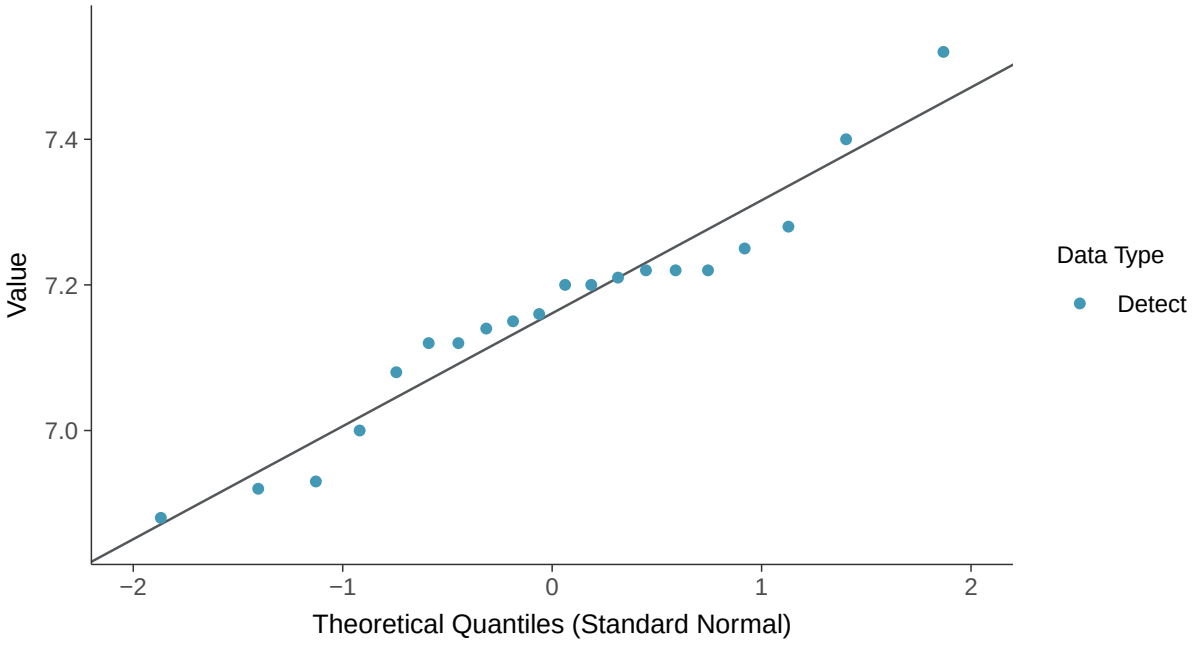
Boxplot by Season

pH (field), MW-09 (su)



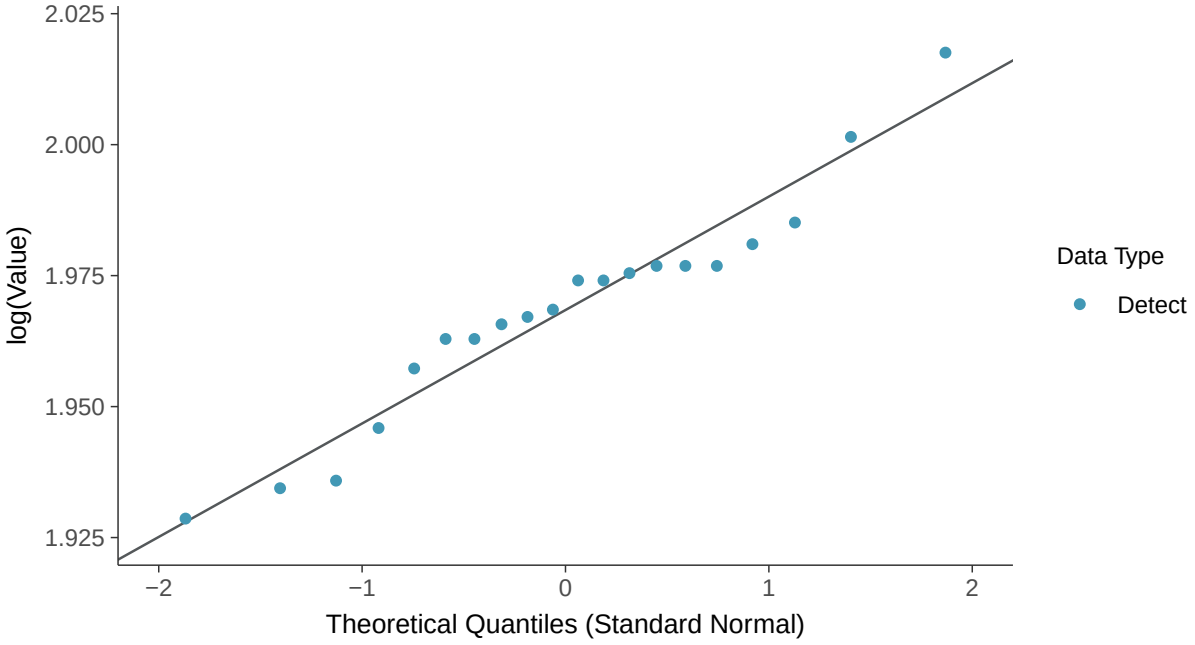
Normal Q-Q plot

pH (field), MW-09 (su)



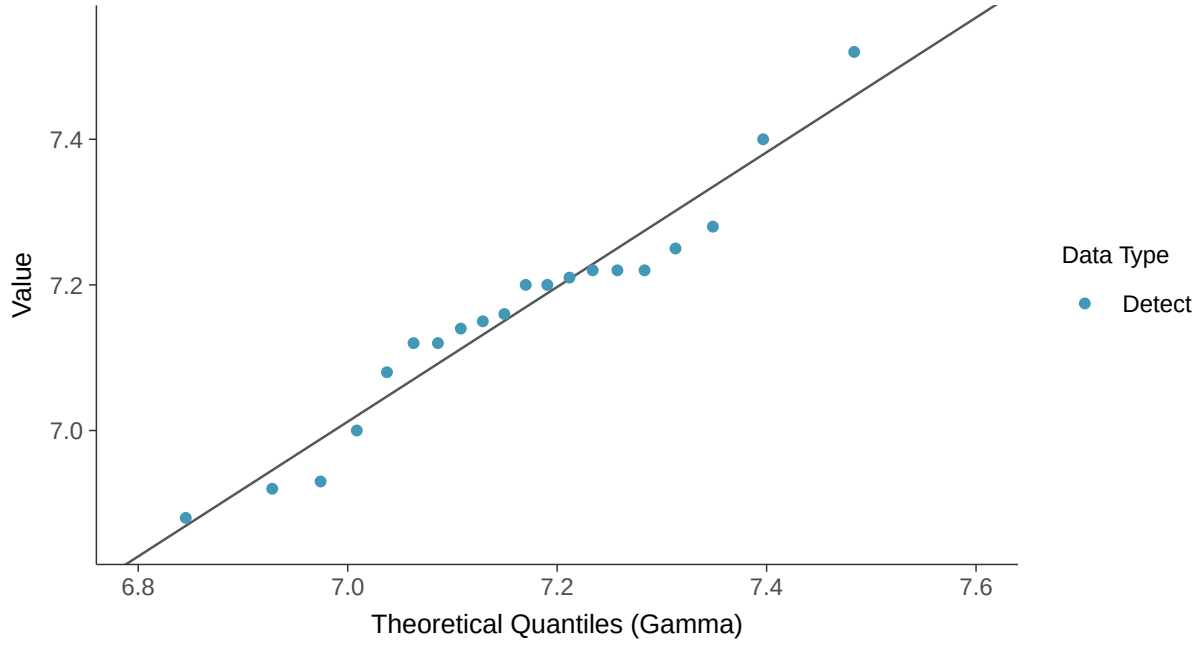
Lognormal Q-Q plot

pH (field), MW-09 (su)



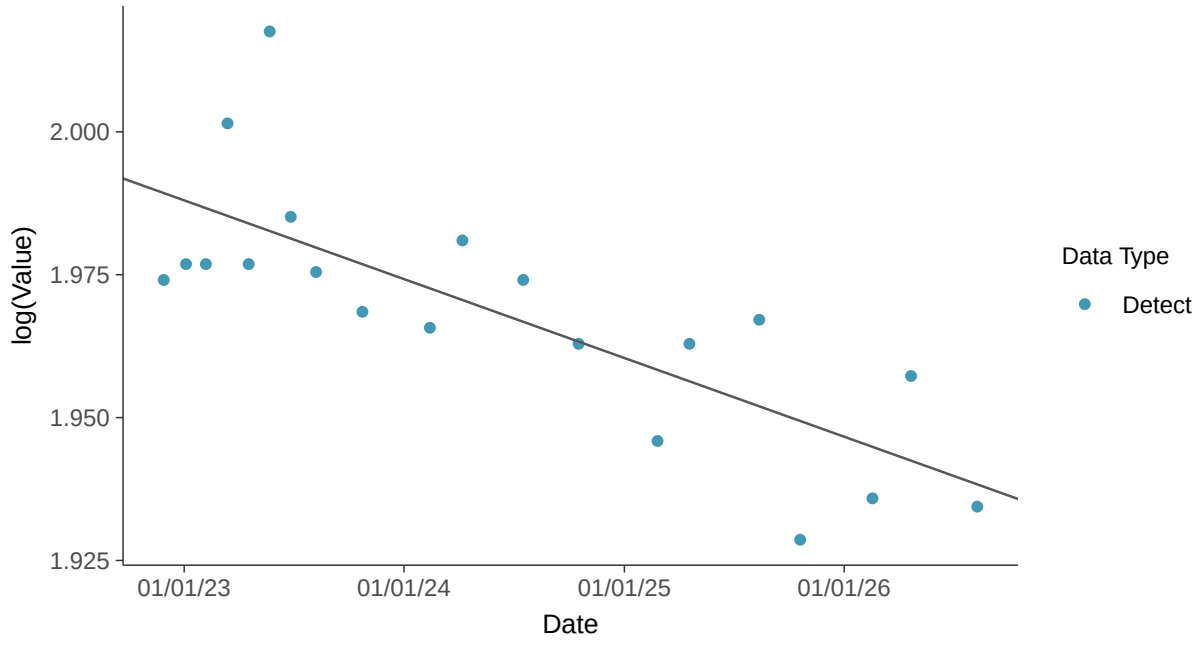
Gamma Q-Q plot

pH (field), MW-09 (su)



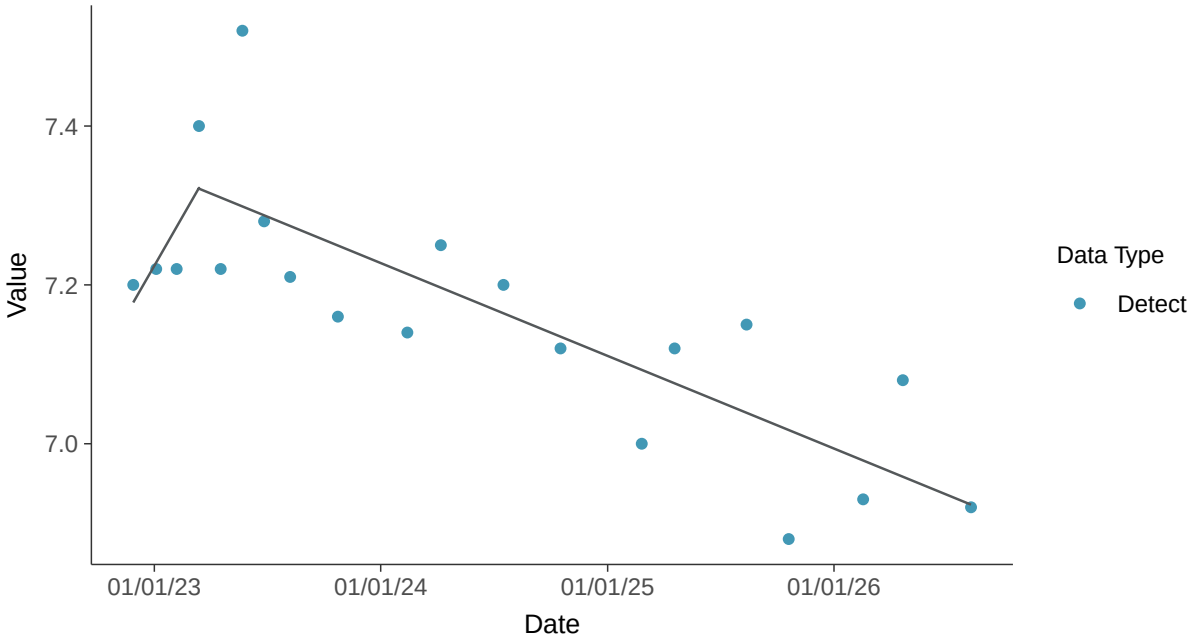
Trend Regression: Lognormal MLE

pH (field), MW-09 (su)



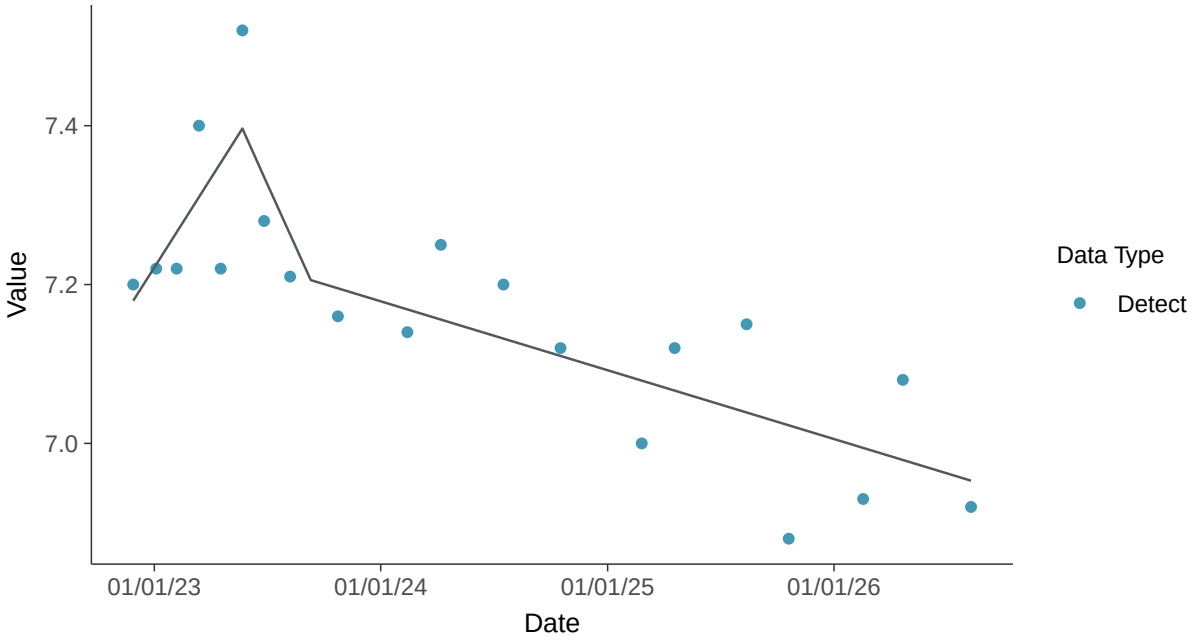
Trend Regression: Piecewise Linear-Linear

pH (field), MW-09 (su)



Trend Regression: Piecewise Linear-Linear-Linear

pH (field), MW-09 (su)

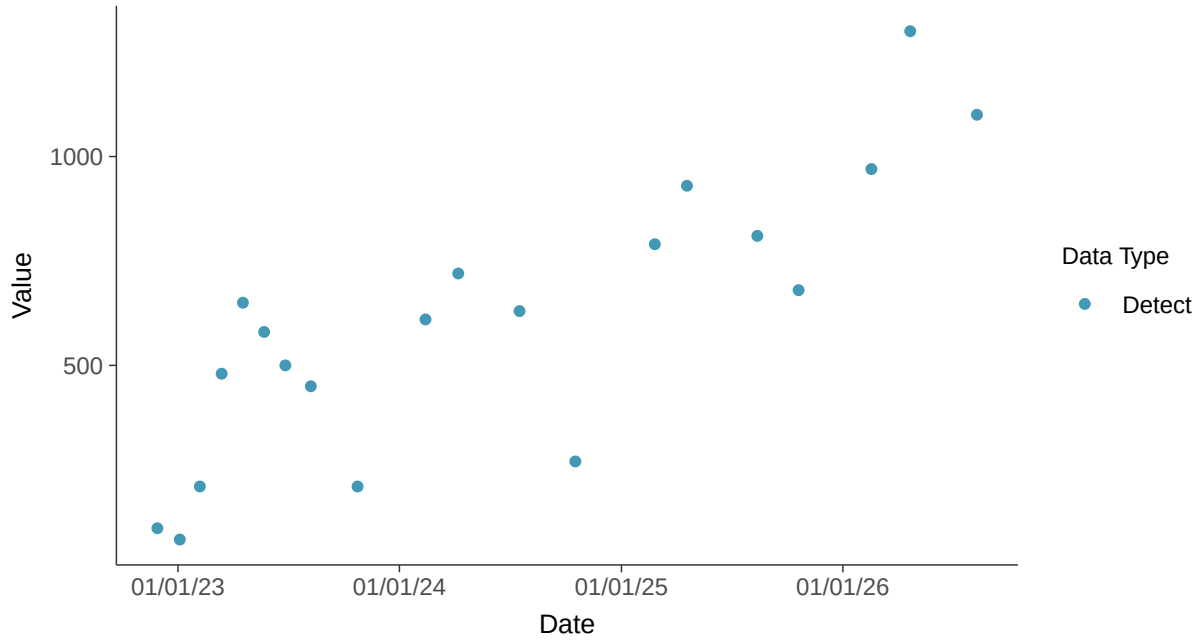


Appendix III: Sulfate (as SO4), MW-09

ID: 19_2_3_124

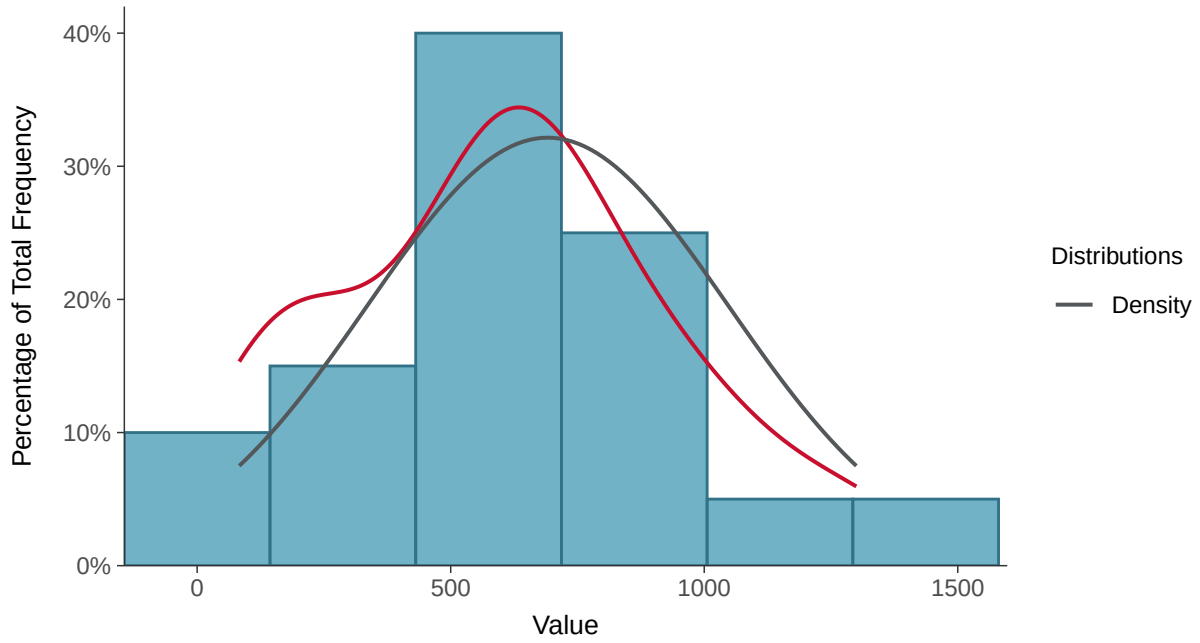
Scatter Plot

Sulfate (as SO4), MW-09 (mg/L)



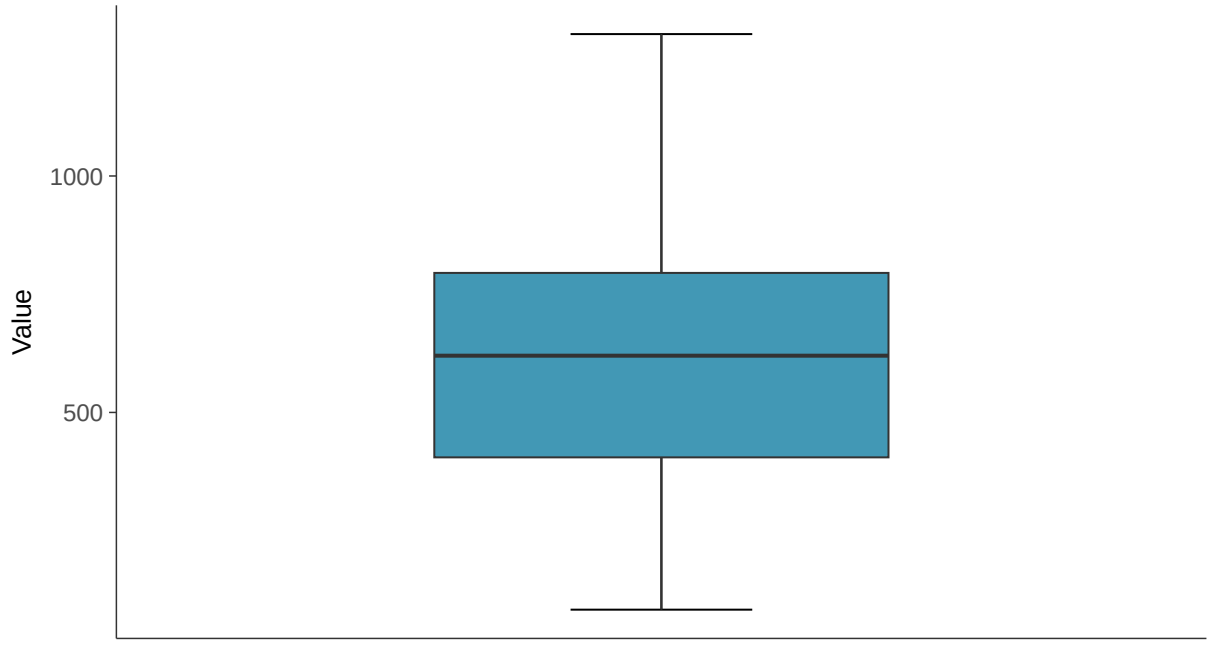
Histogram

Sulfate (as SO4), MW-09 (mg/L)



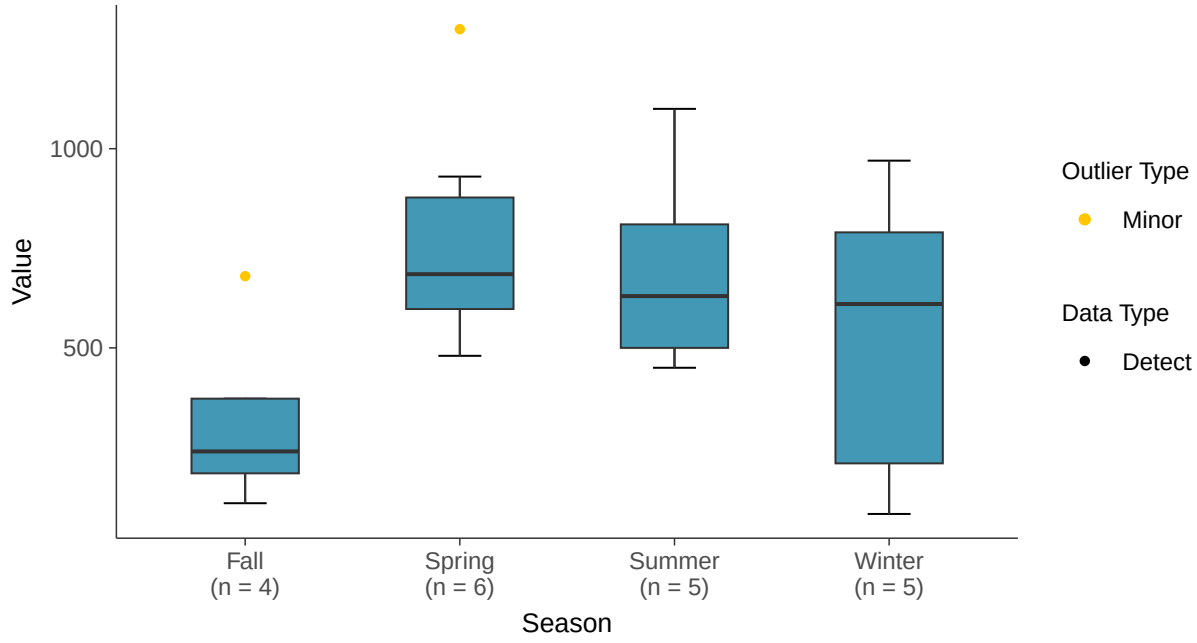
Boxplot

Sulfate (as SO4), MW-09 (mg/L)



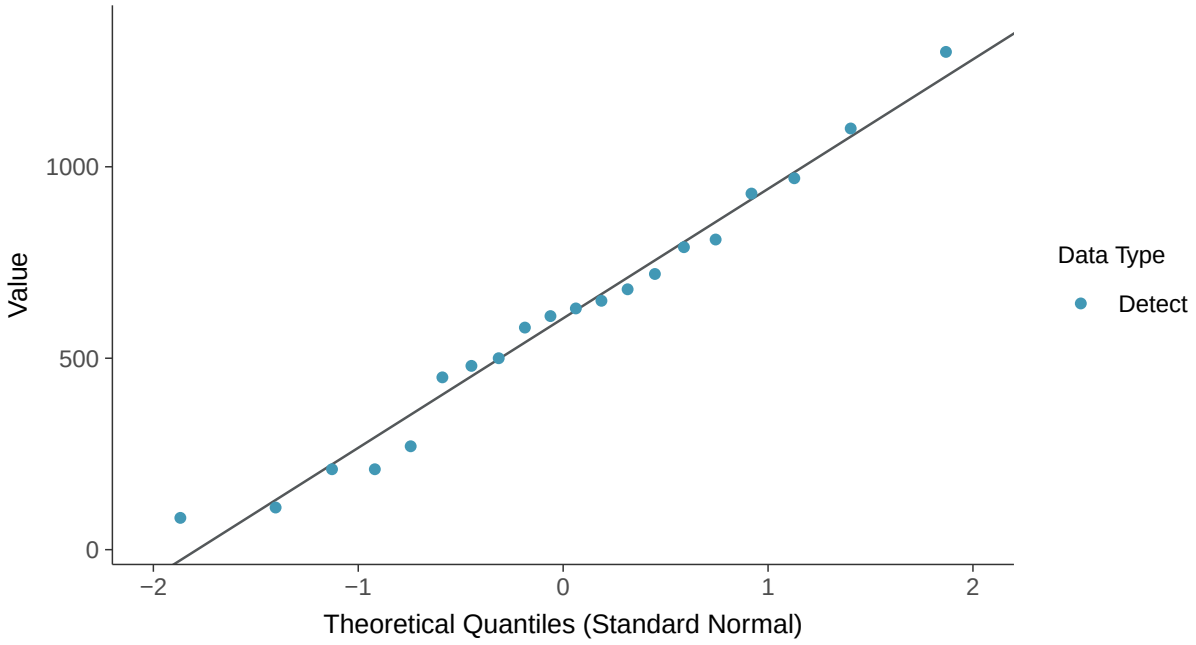
Boxplot by Season

Sulfate (as SO4), MW-09 (mg/L)



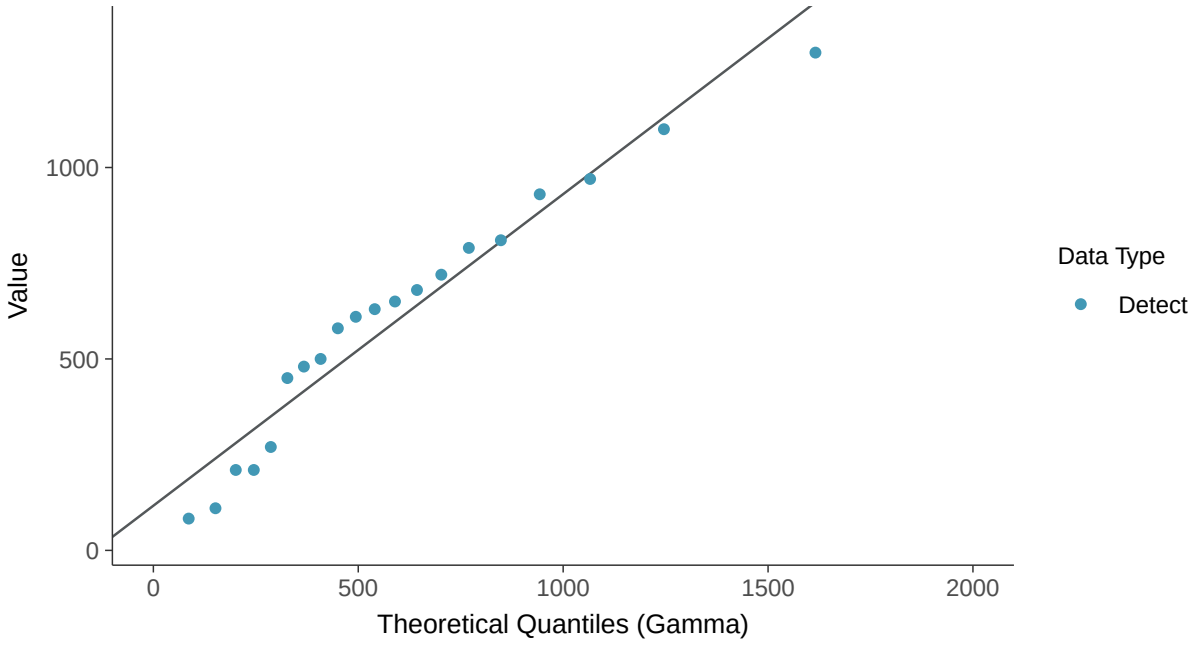
Normal Q-Q plot

Sulfate (as SO4), MW-09 (mg/L)



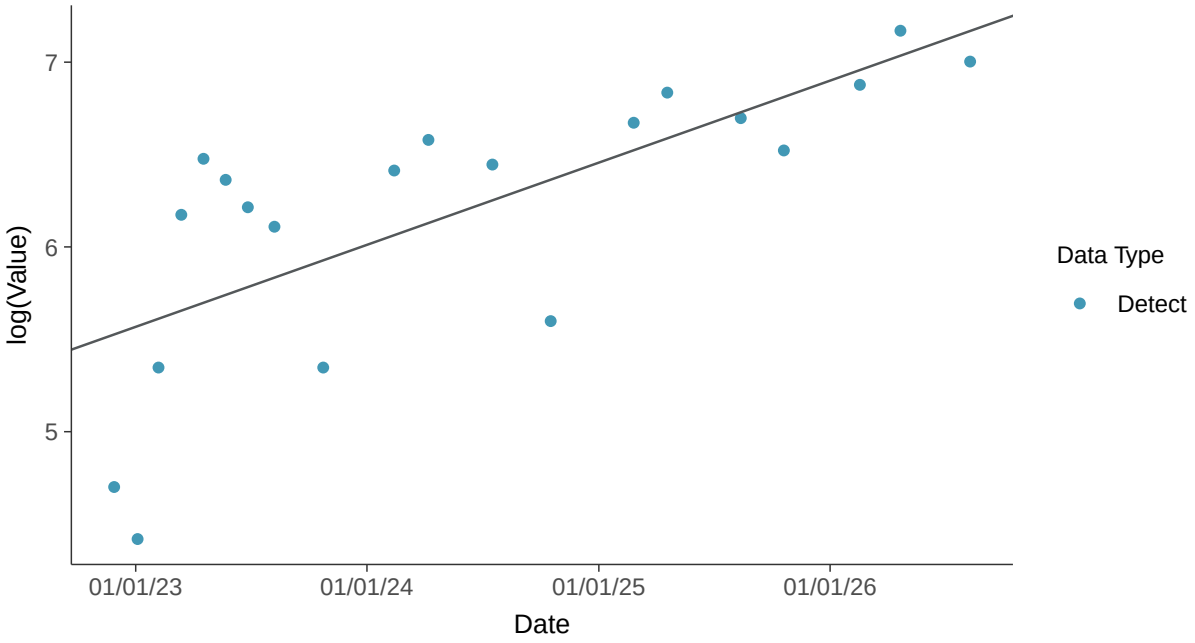
Gamma Q-Q plot

Sulfate (as SO4), MW-09 (mg/L)



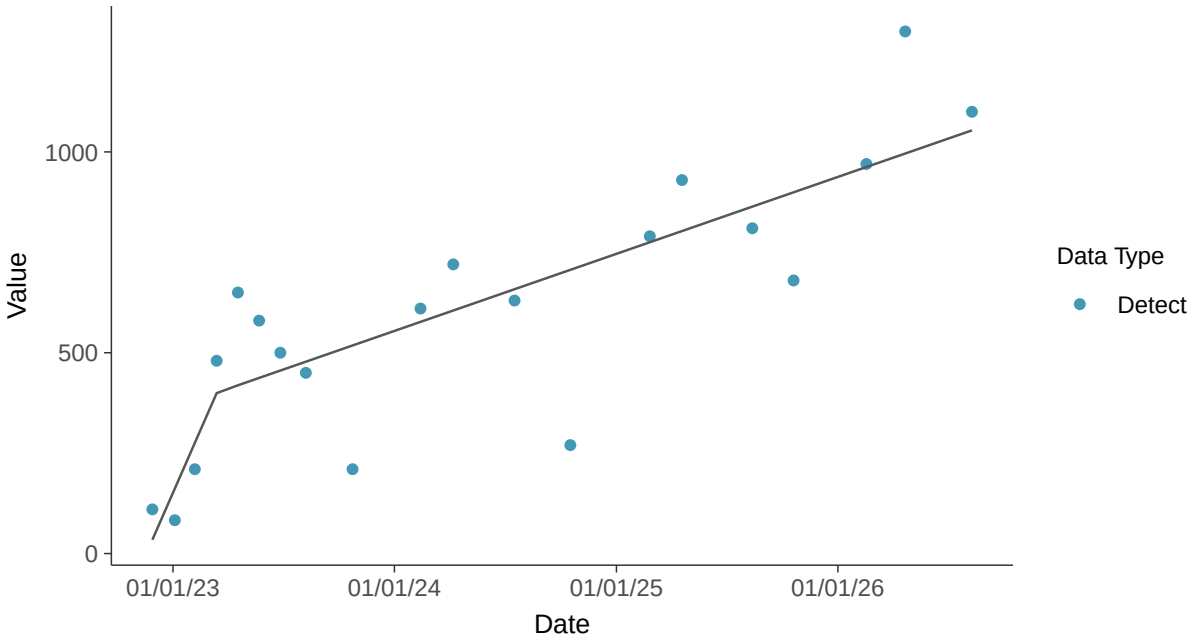
Trend Regression: Lognormal MLE

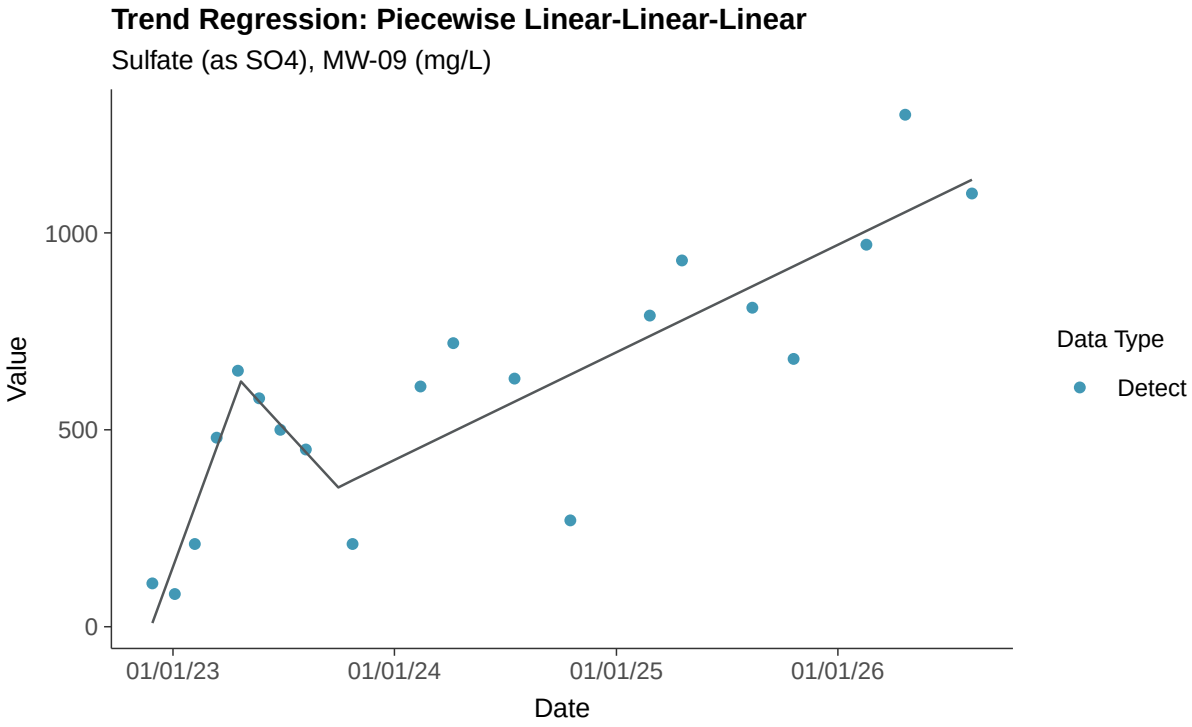
Sulfate (as SO4), MW-09 (mg/L)



Trend Regression: Piecewise Linear-Linear

Sulfate (as SO4), MW-09 (mg/L)



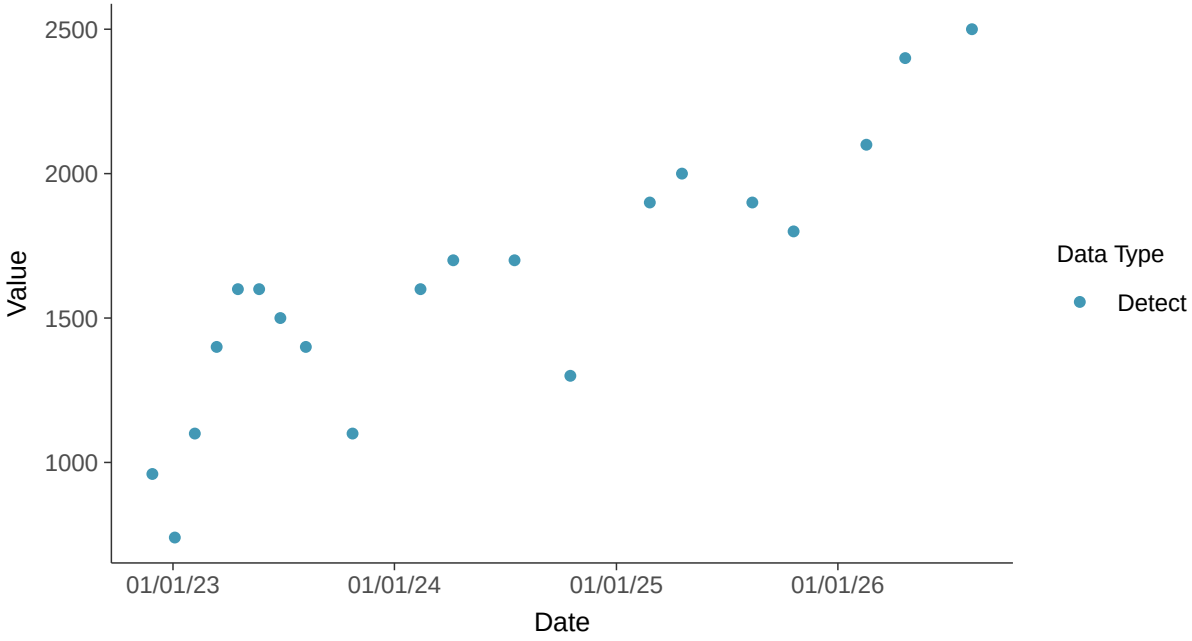

Trend Regression: Piecewise Linear-Linear-Linear
Sulfate (as SO4), MW-09 (mg/L)
Value
1000
500
0
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect

Appendix III: Total Dissolved Solids, MW-09

ID: 19_2_3_126

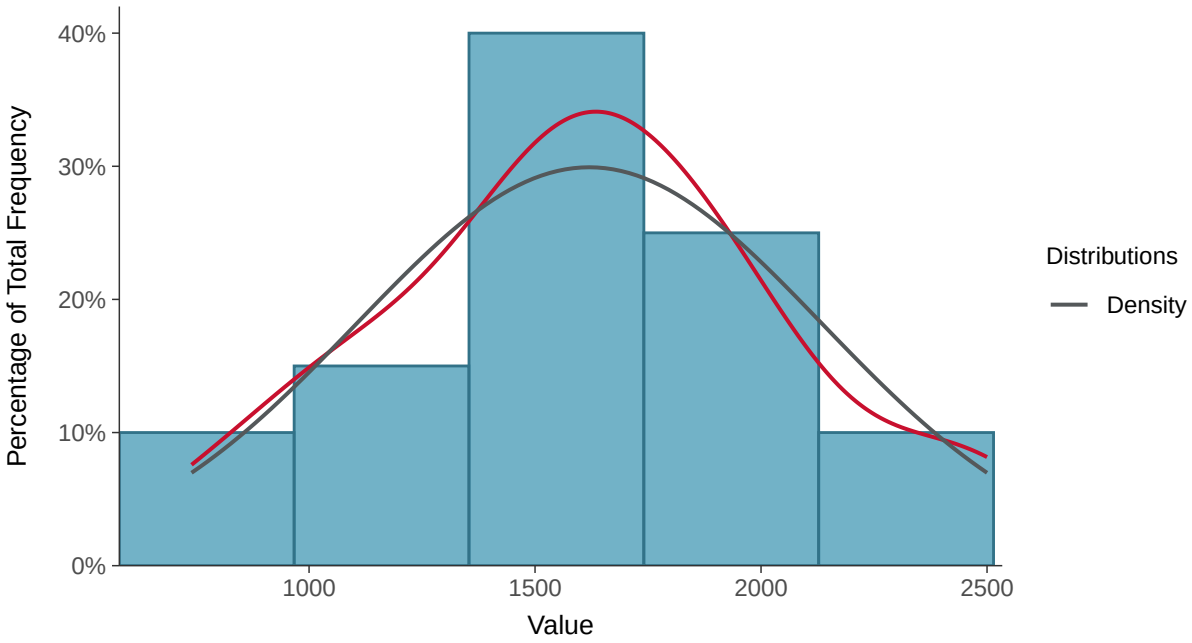
Scatter Plot

Total Dissolved Solids, MW-09 (mg/L)



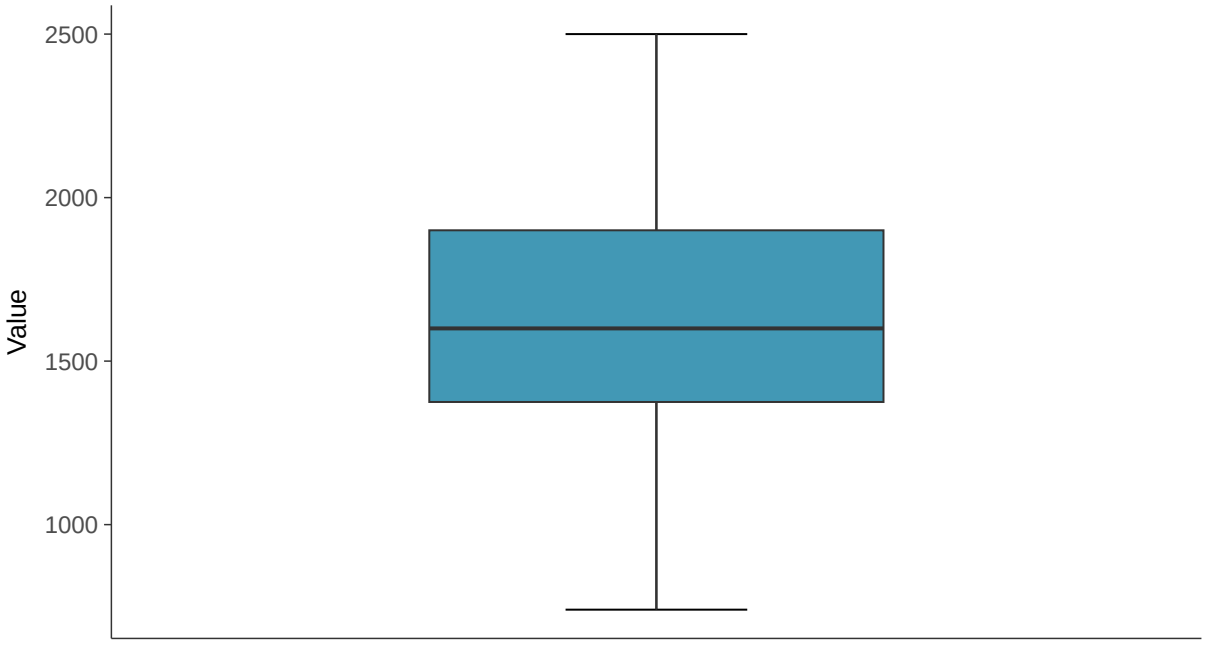
Histogram

Total Dissolved Solids, MW-09 (mg/L)



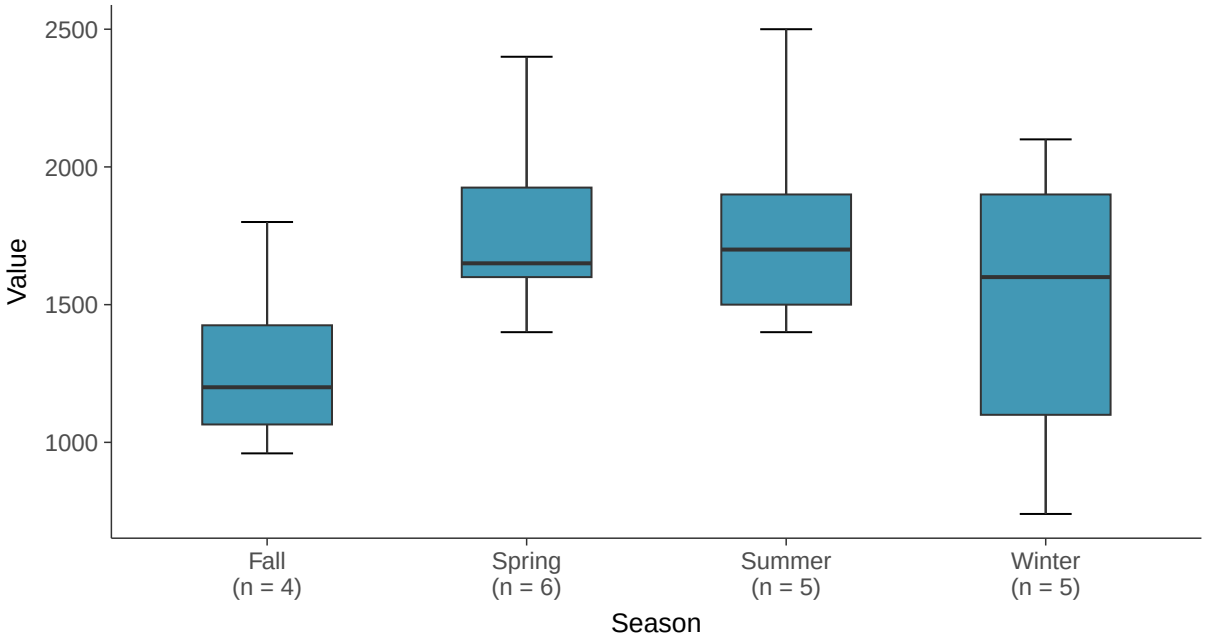
Boxplot

Total Dissolved Solids, MW-09 (mg/L)



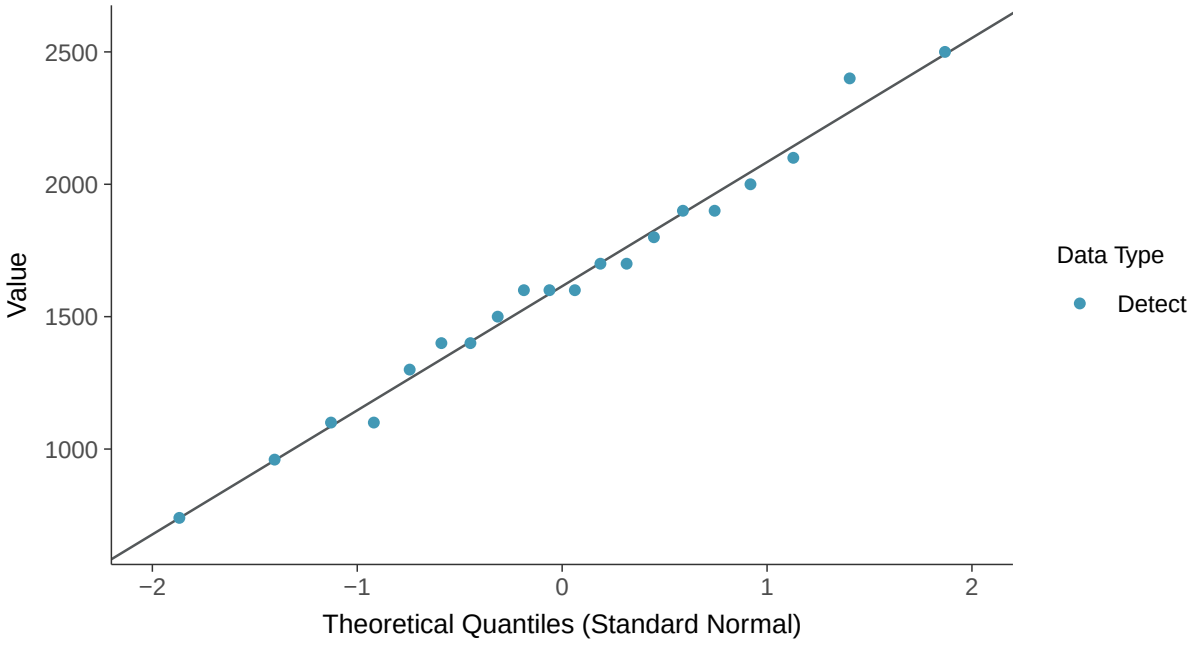
Boxplot by Season

Total Dissolved Solids, MW-09 (mg/L)



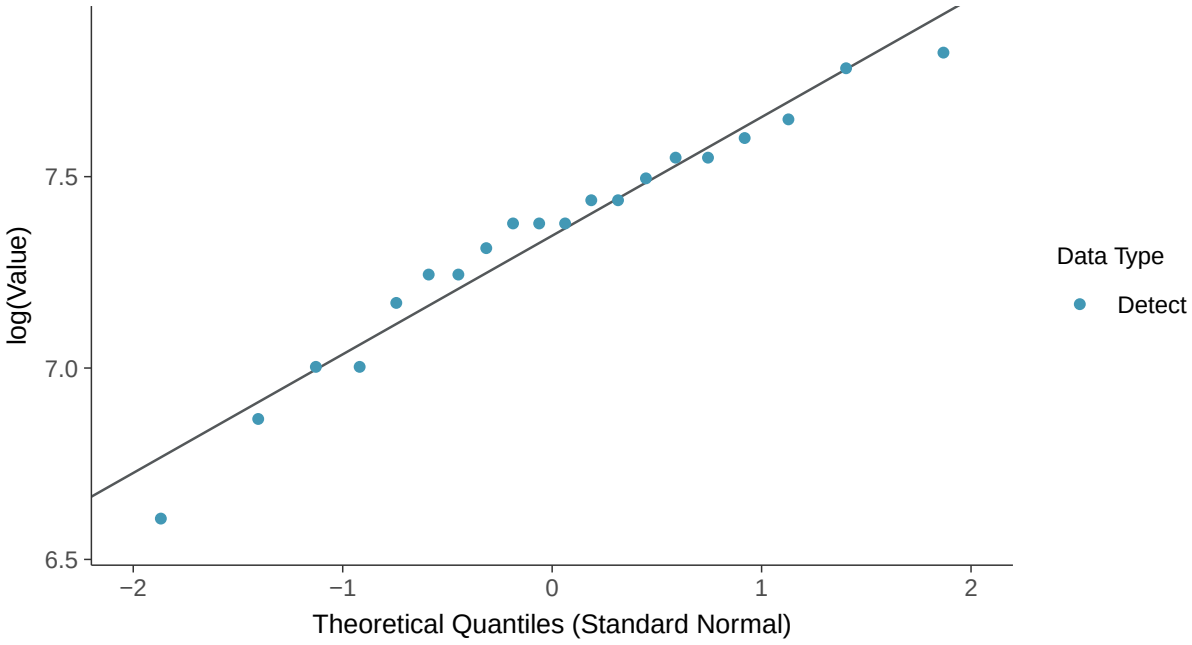
Normal Q-Q plot

Total Dissolved Solids, MW-09 (mg/L)



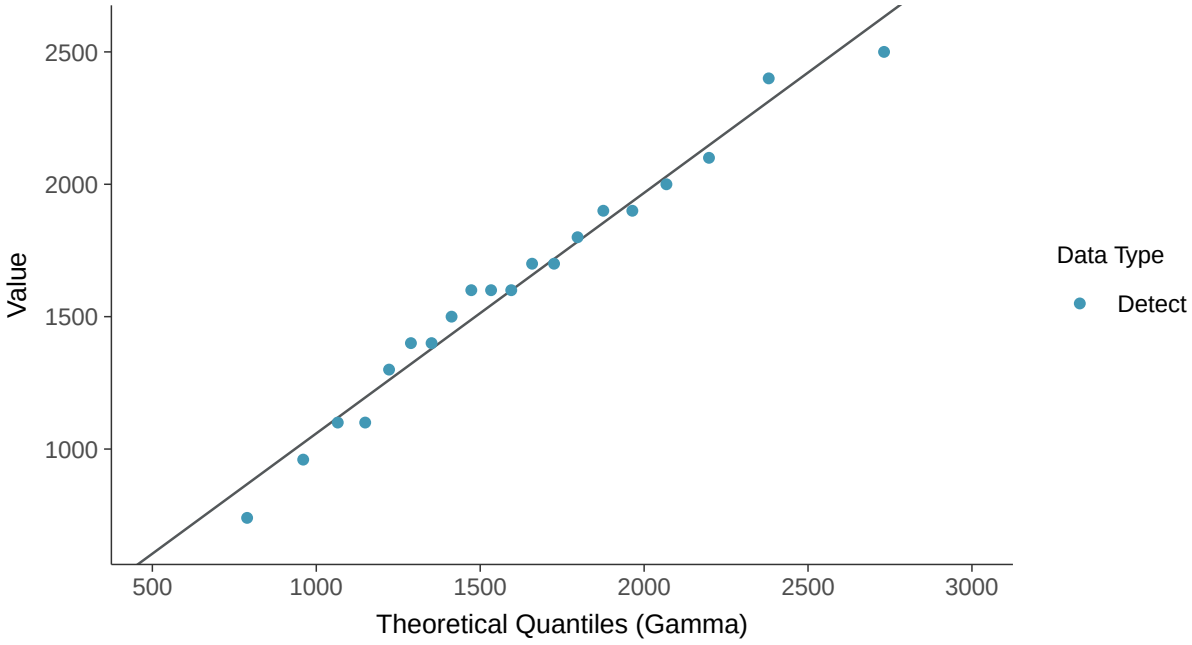
Lognormal Q-Q plot

Total Dissolved Solids, MW-09 (mg/L)



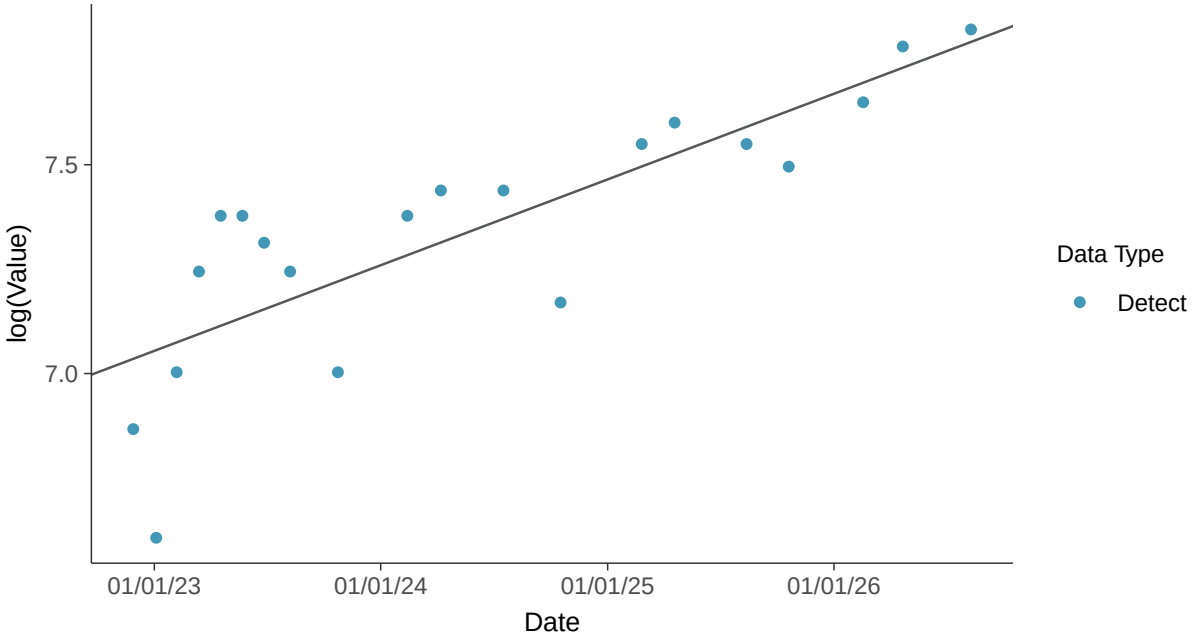
Gamma Q-Q plot

Total Dissolved Solids, MW-09 (mg/L)



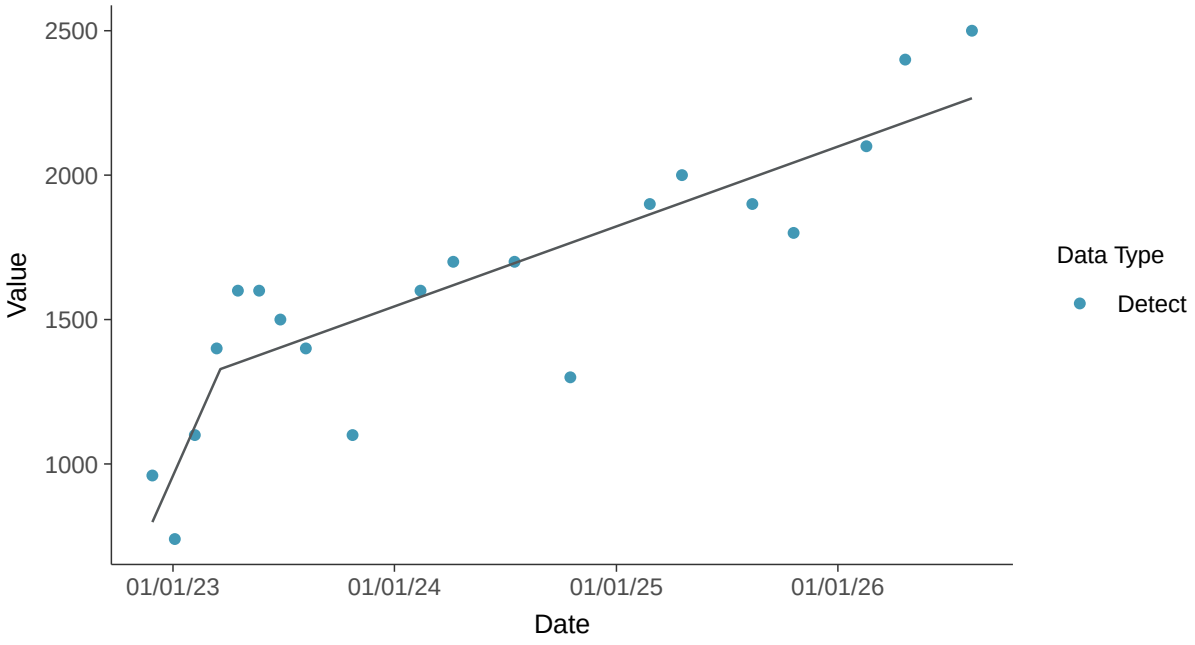
Trend Regression: Lognormal MLE

Total Dissolved Solids, MW-09 (mg/L)



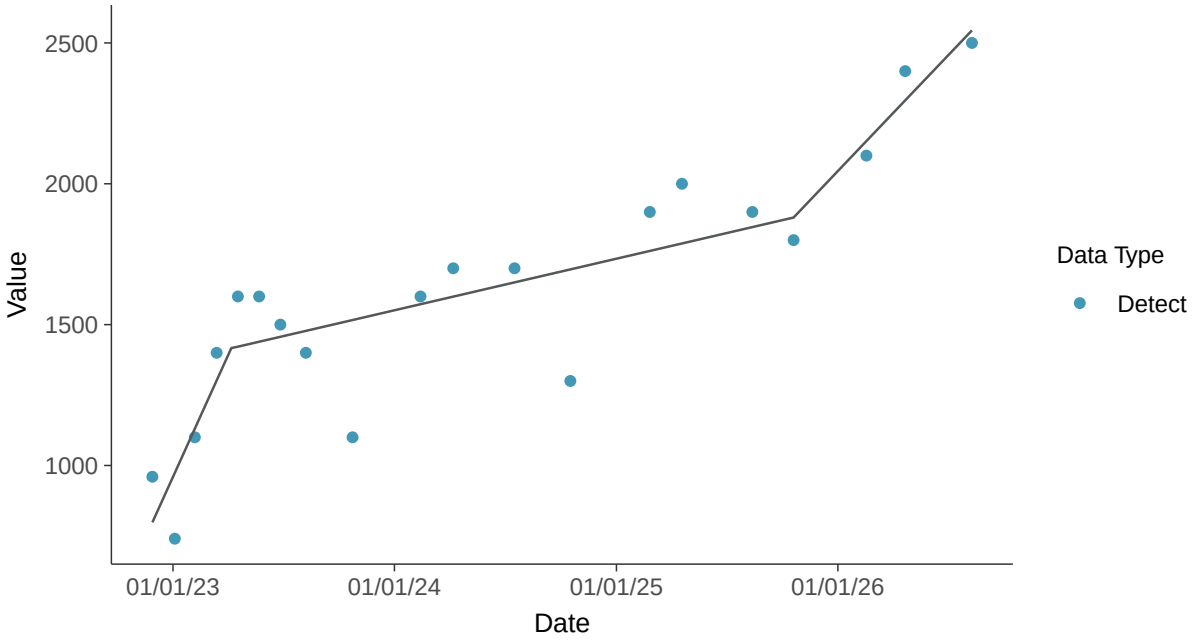
Trend Regression: Piecewise Linear-Linear

Total Dissolved Solids, MW-09 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Total Dissolved Solids, MW-09 (mg/L)

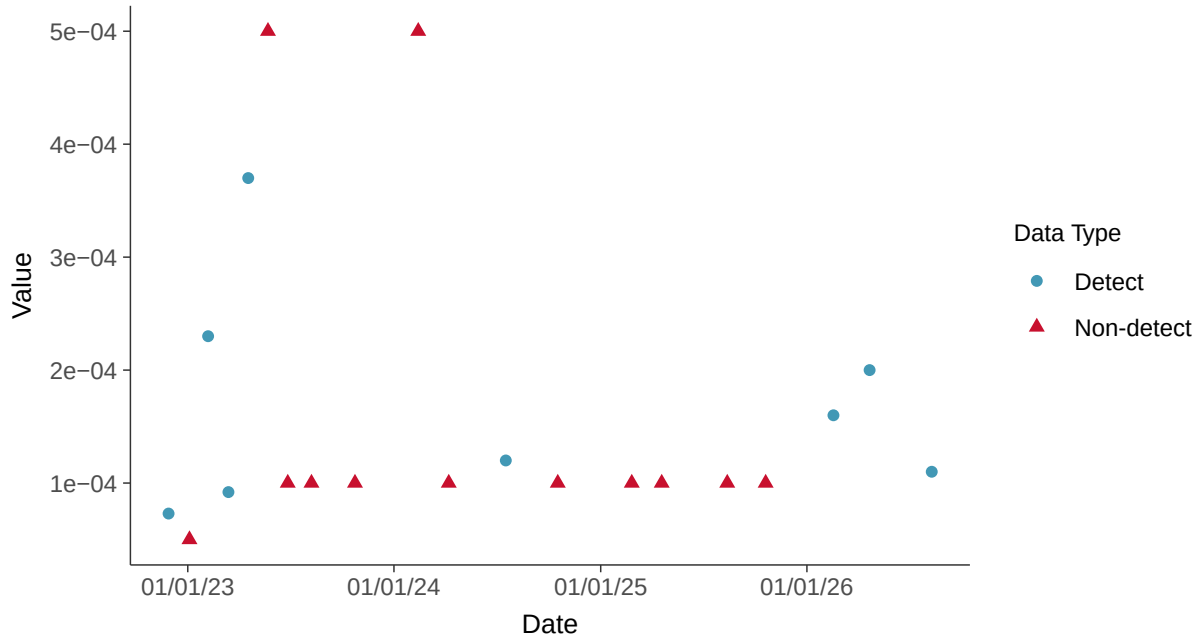


Appendix IV: Antimony, MW-09

ID: 19_2_4_101

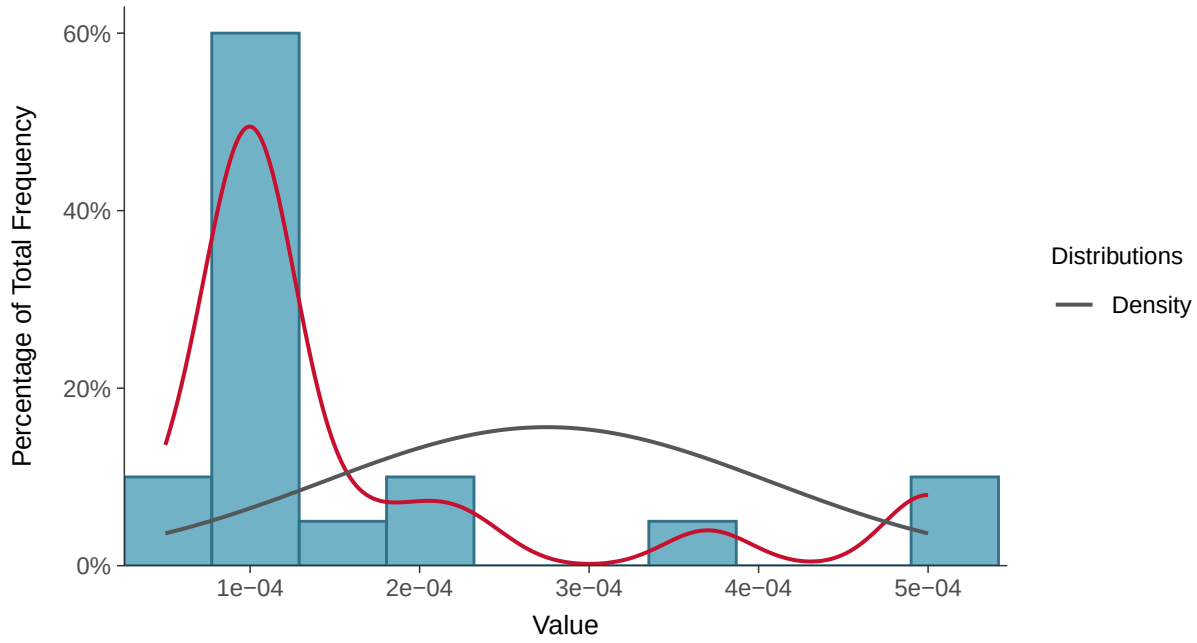
Scatter Plot

Antimony, MW-09 (mg/L)



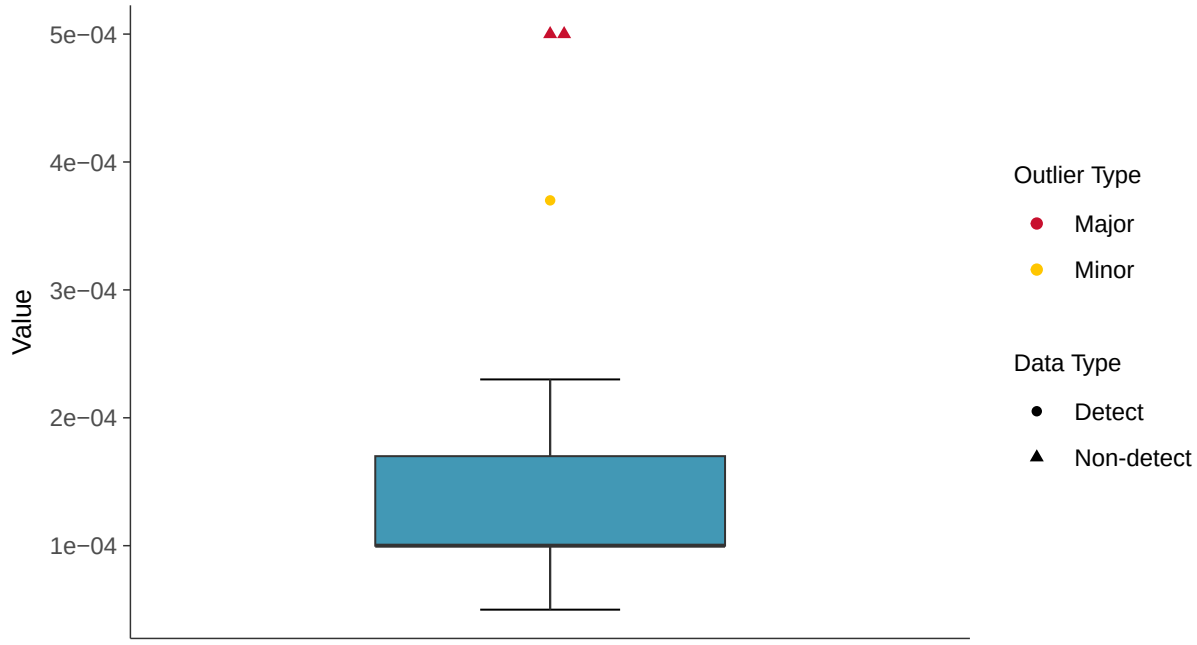
Histogram

Antimony, MW-09 (mg/L)



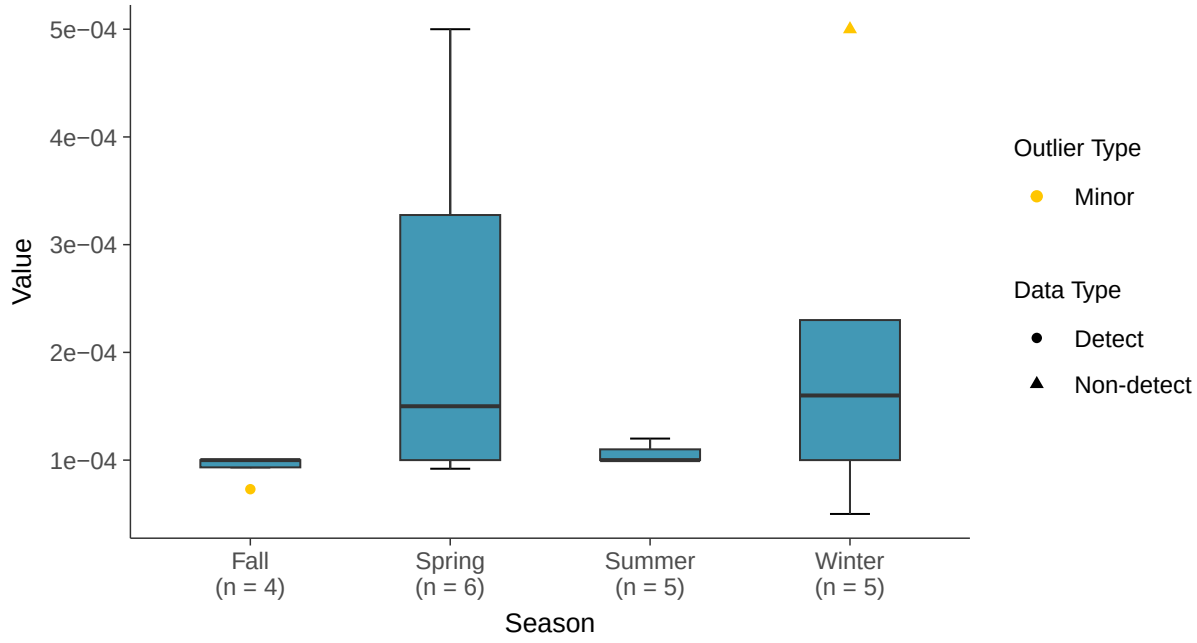
Boxplot

Antimony, MW-09 (mg/L)



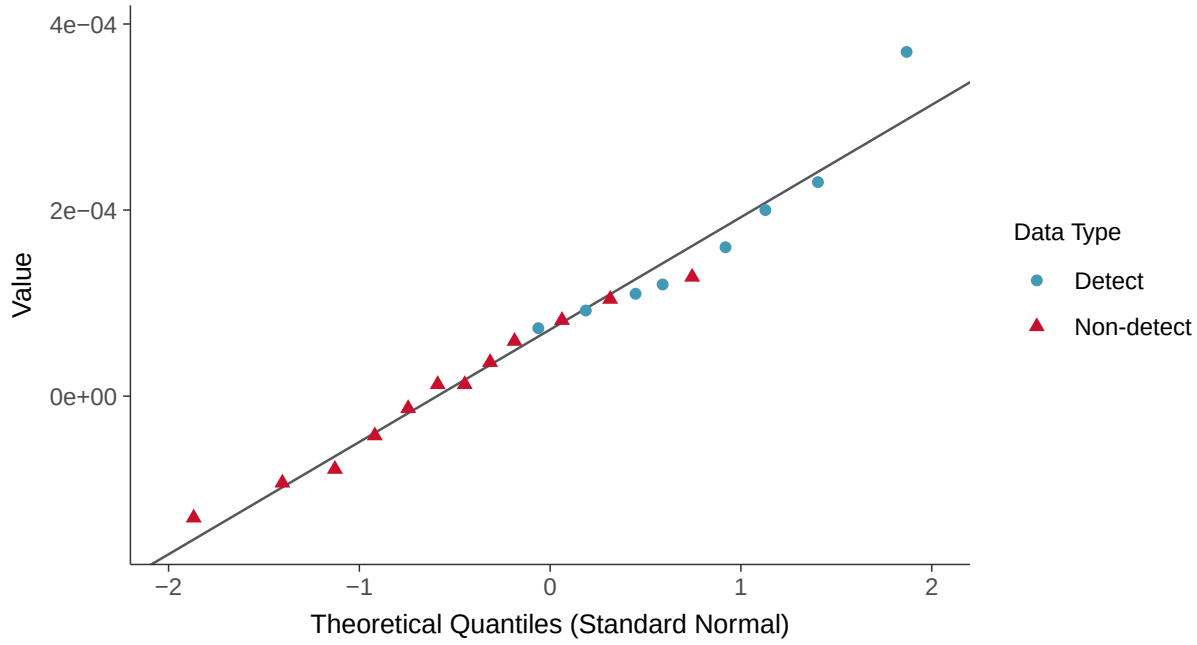
Boxplot by Season

Antimony, MW-09 (mg/L)



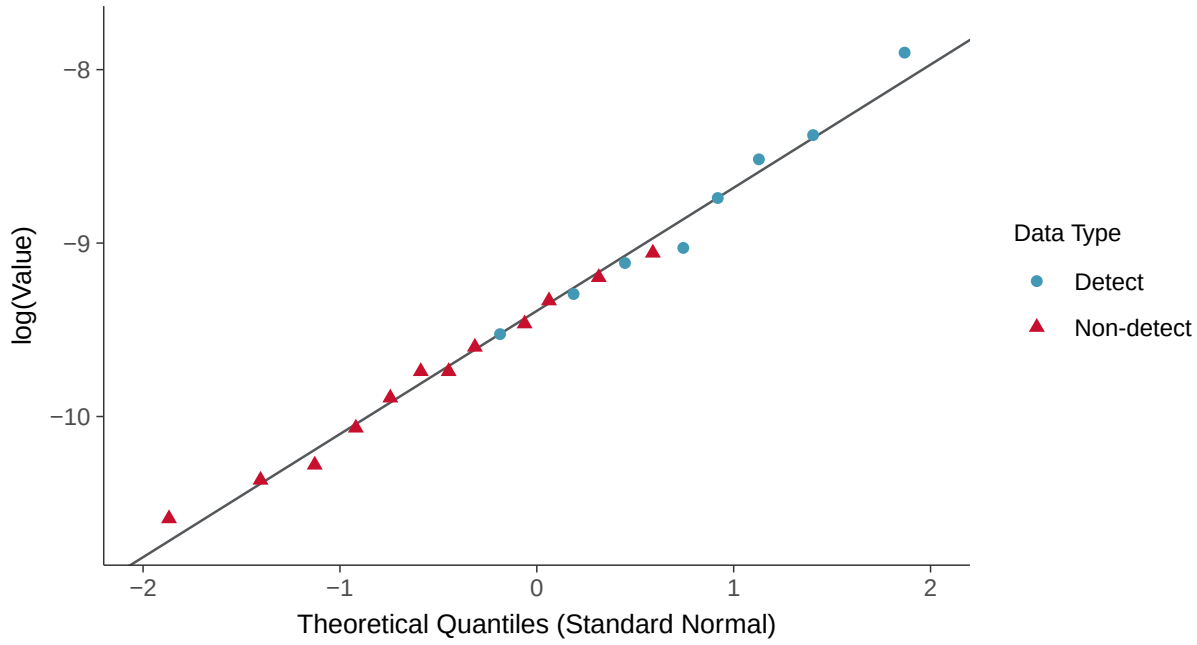
Normal Q-Q plot using ROS Imputed Estimates

Antimony, MW-09 (mg/L)



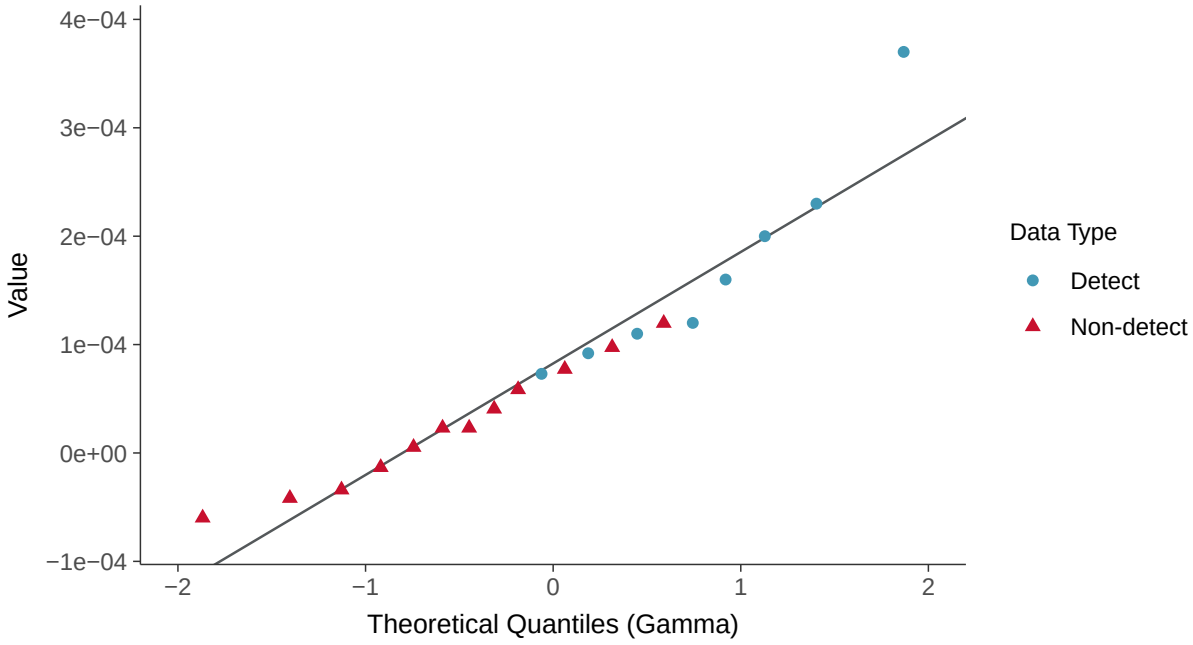
Lognormal Q-Q plot using ROS Imputed Estimates

Antimony, MW-09 (mg/L)



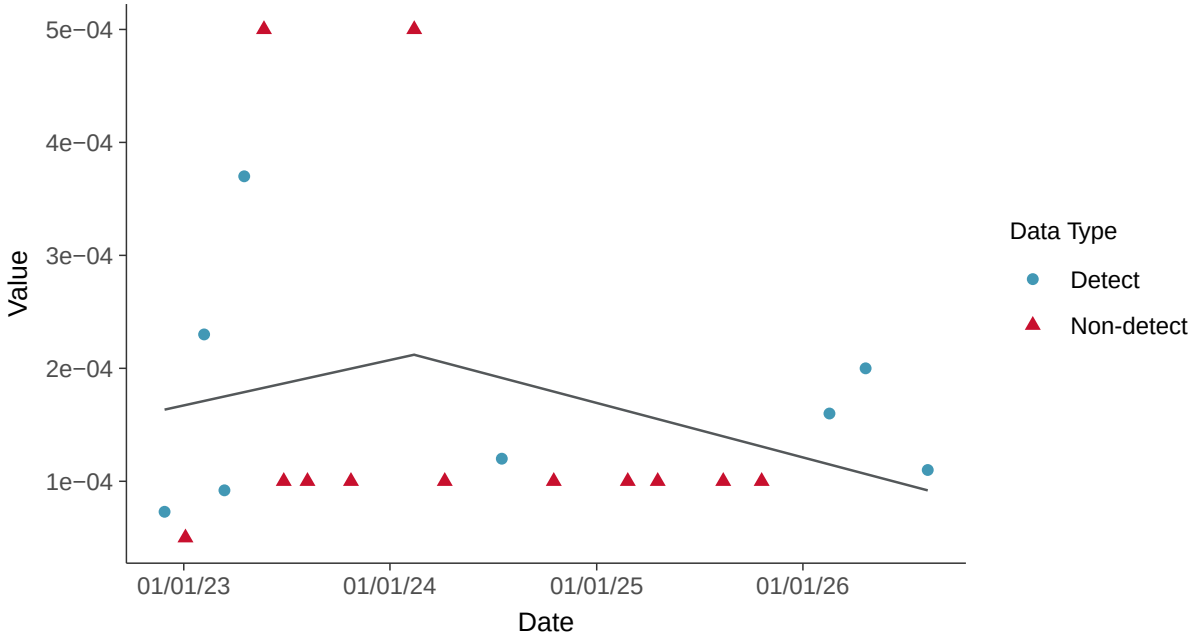
Gamma Q-Q plot using ROS Imputed Estimates

Antimony, MW-09 (mg/L)



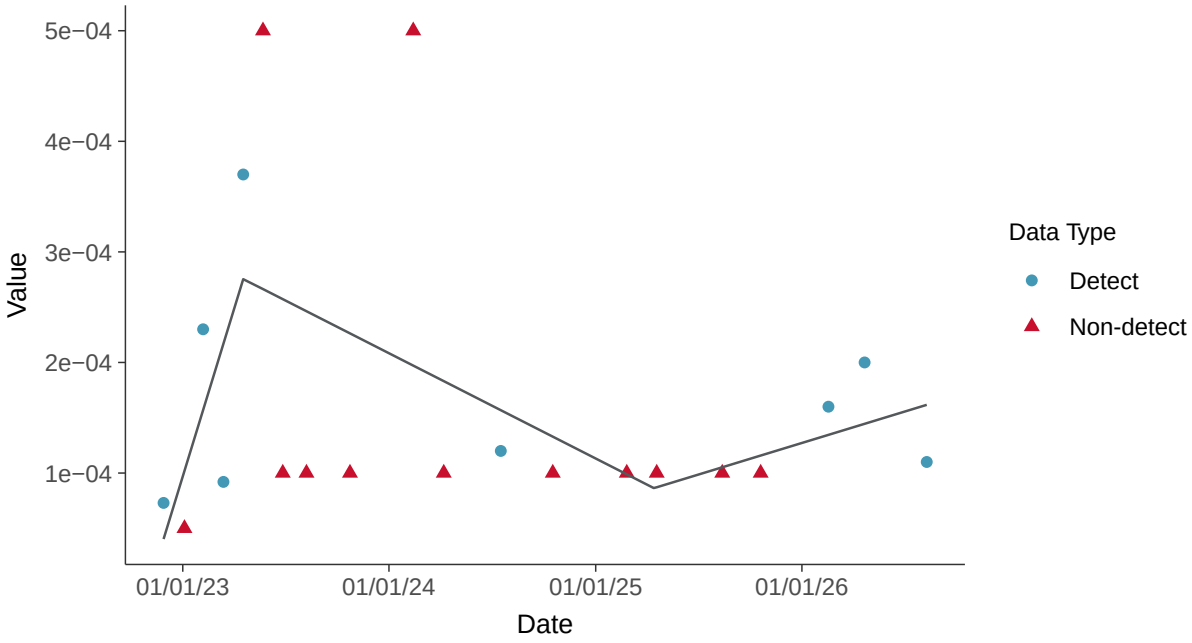
Trend Regression: Piecewise Linear-Linear

Antimony, MW-09 (mg/L)



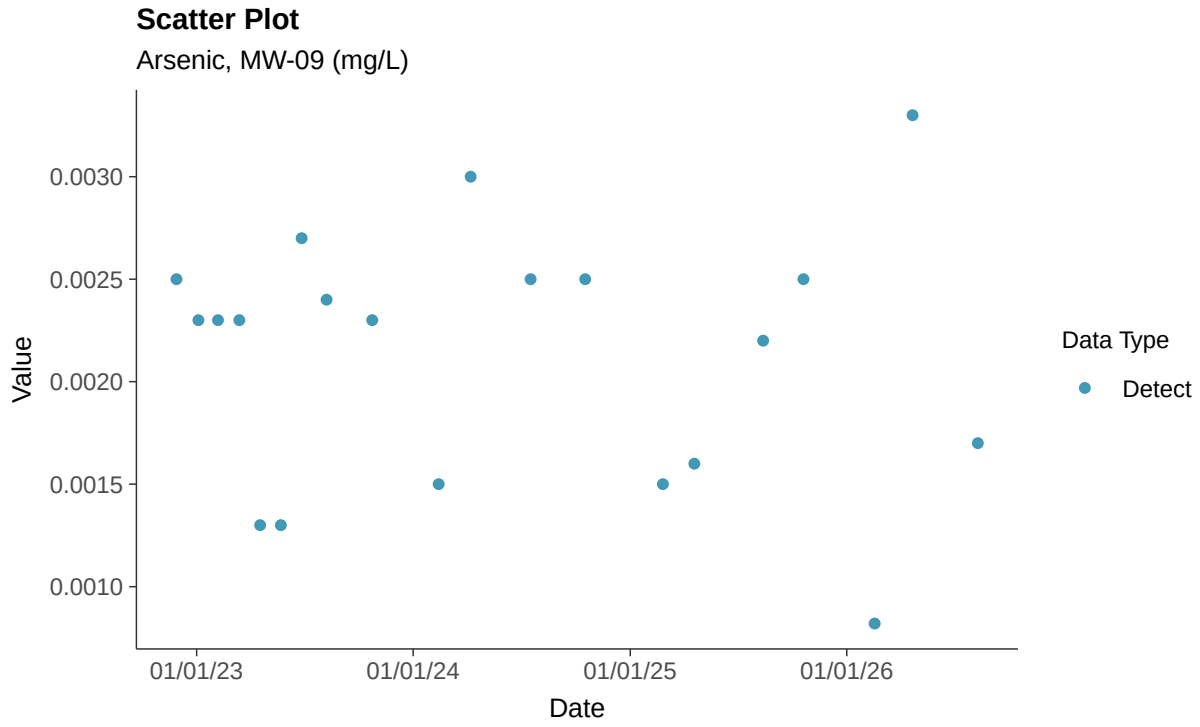
Trend Regression: Piecewise Linear-Linear-Linear

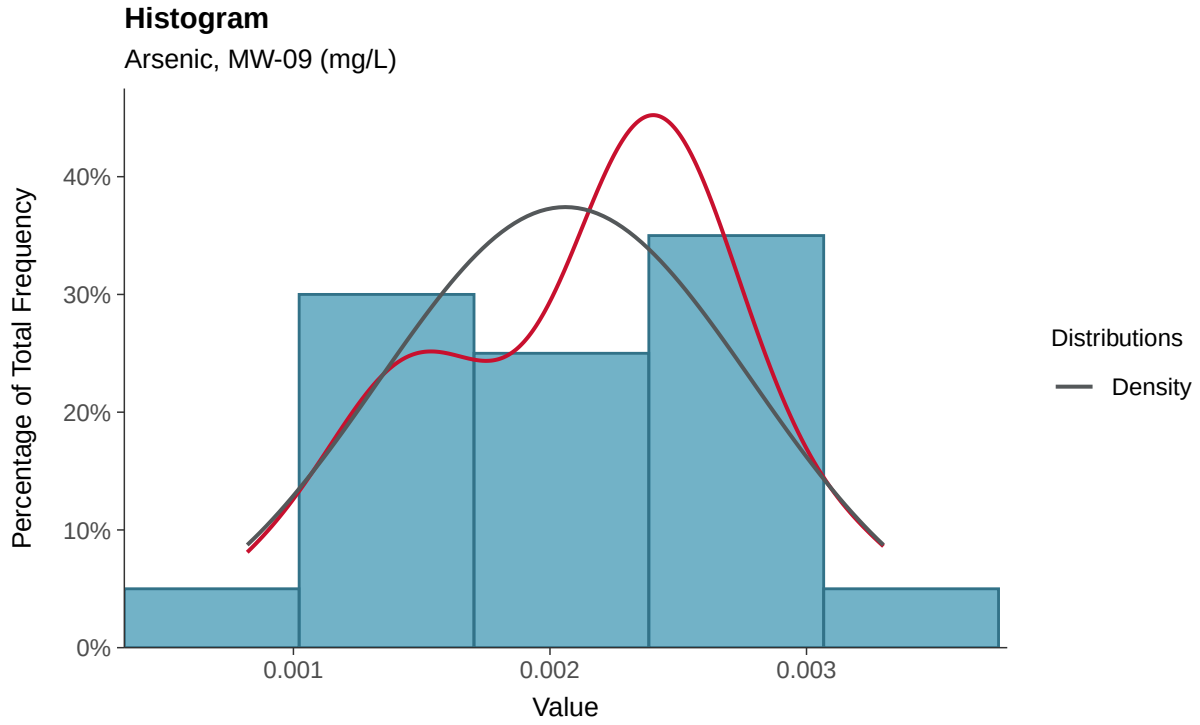
Antimony, MW-09 (mg/L)



Appendix IV: Arsenic, MW-09

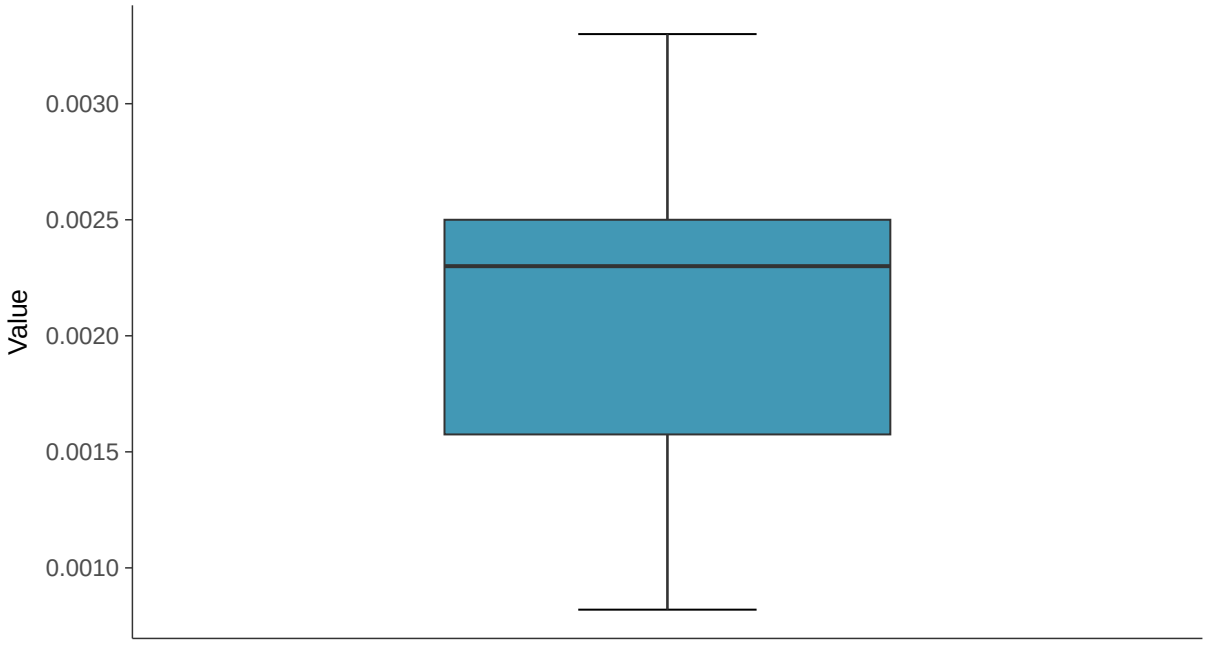
ID: 19_2_4_102





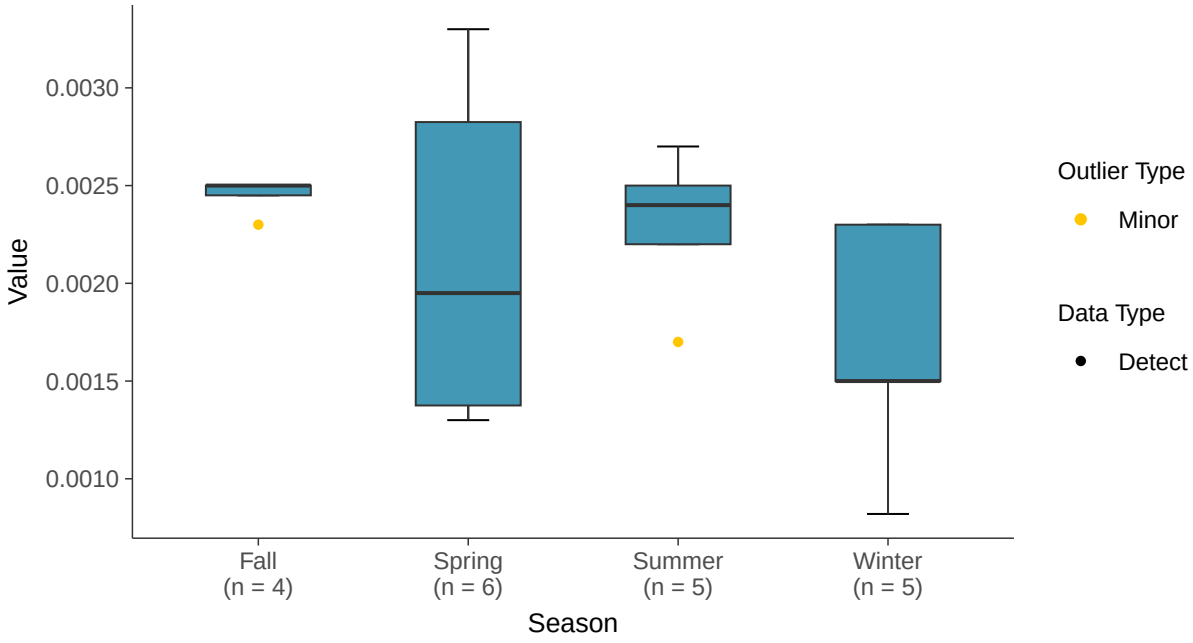
Boxplot

Arsenic, MW-09 (mg/L)



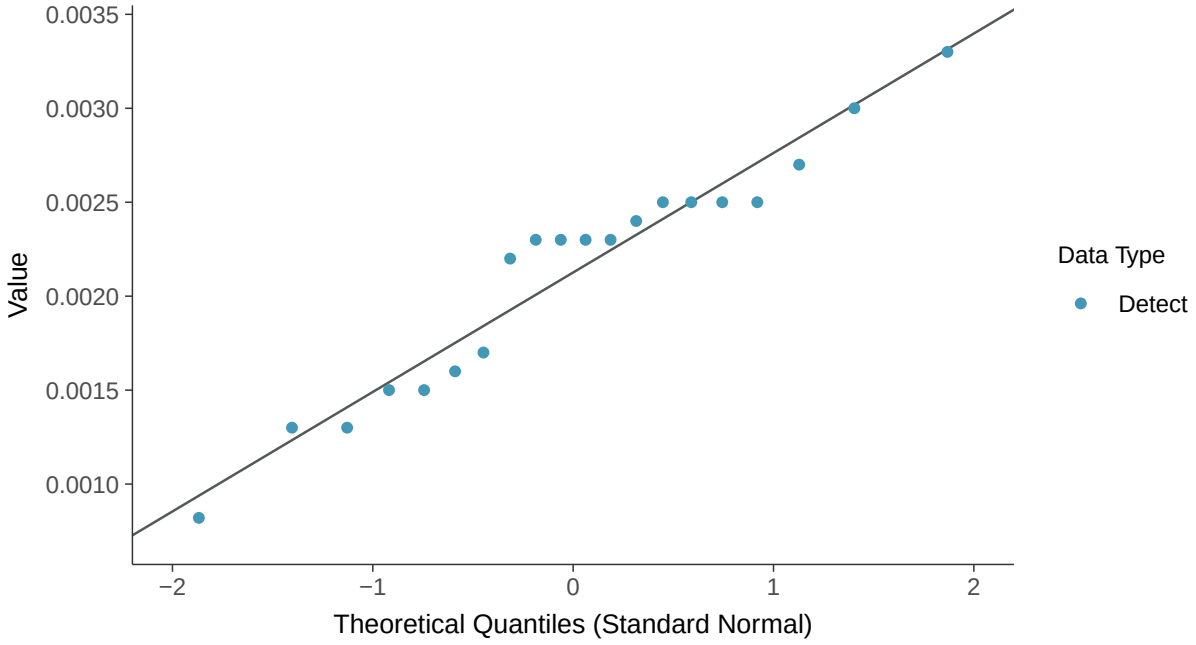
Boxplot by Season

Arsenic, MW-09 (mg/L)



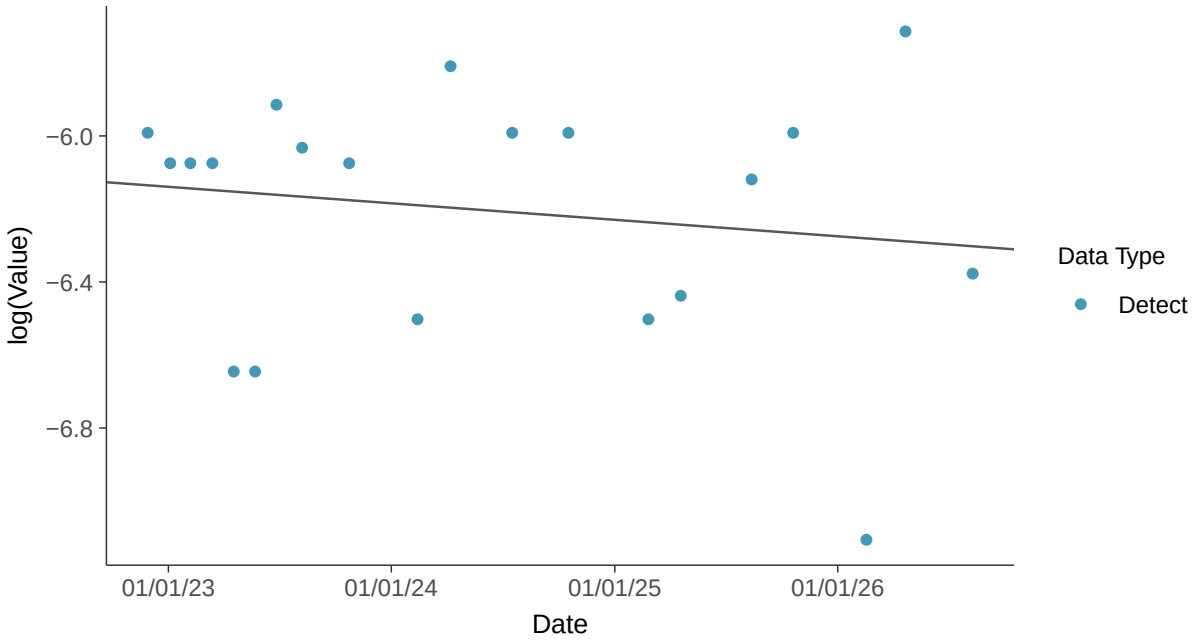
Normal Q-Q plot

Arsenic, MW-09 (mg/L)



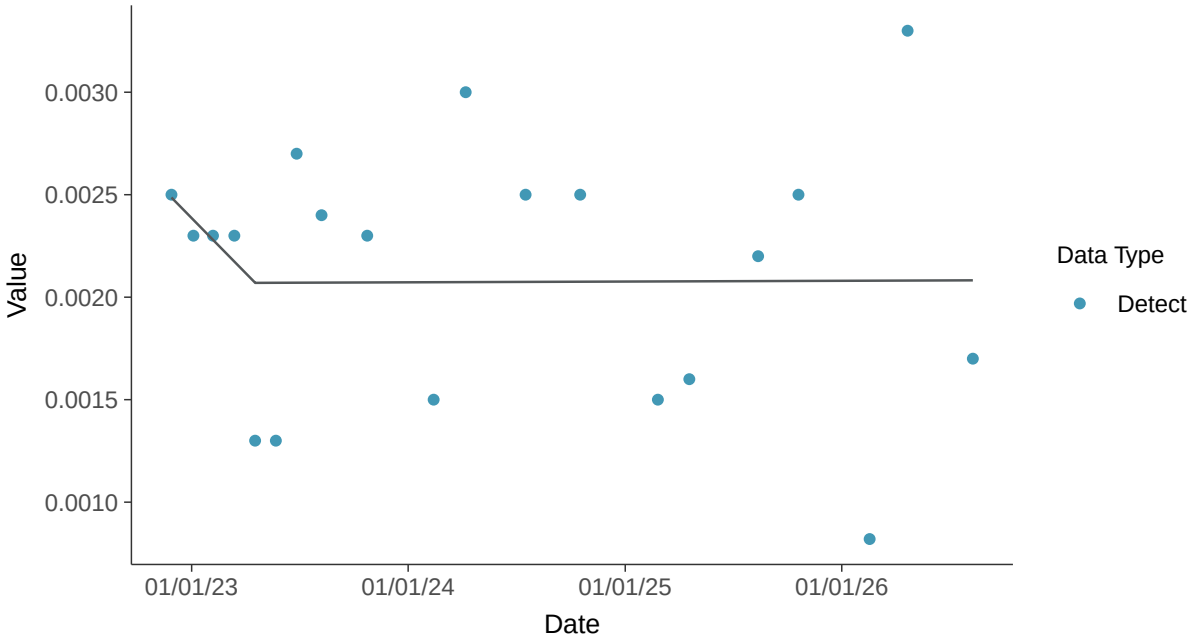
Trend Regression: Lognormal MLE

Arsenic, MW-09 (mg/L)



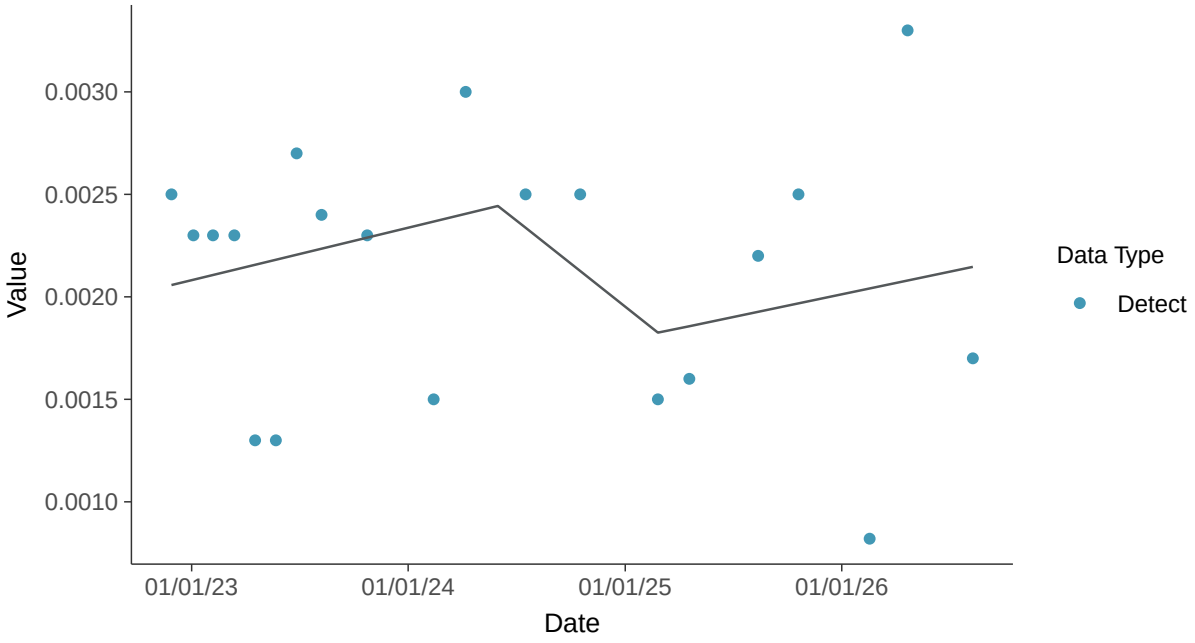
Trend Regression: Piecewise Linear-Linear

Arsenic, MW-09 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Arsenic, MW-09 (mg/L)

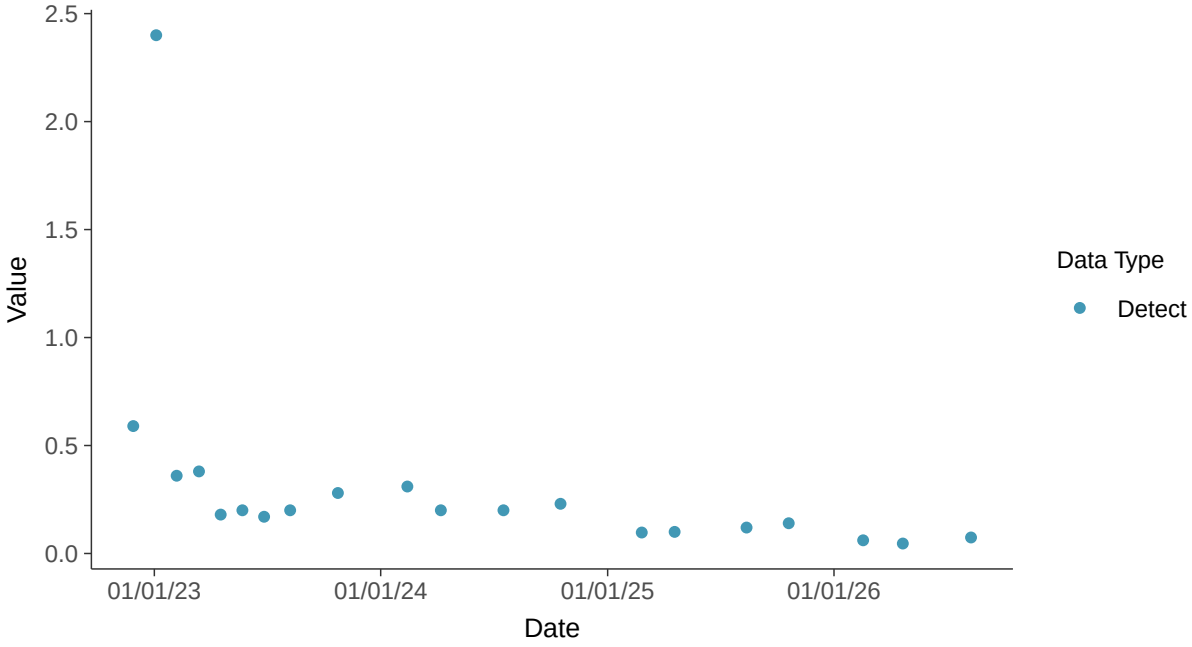


Appendix IV: Barium, MW-09

ID: 19_2_4_103

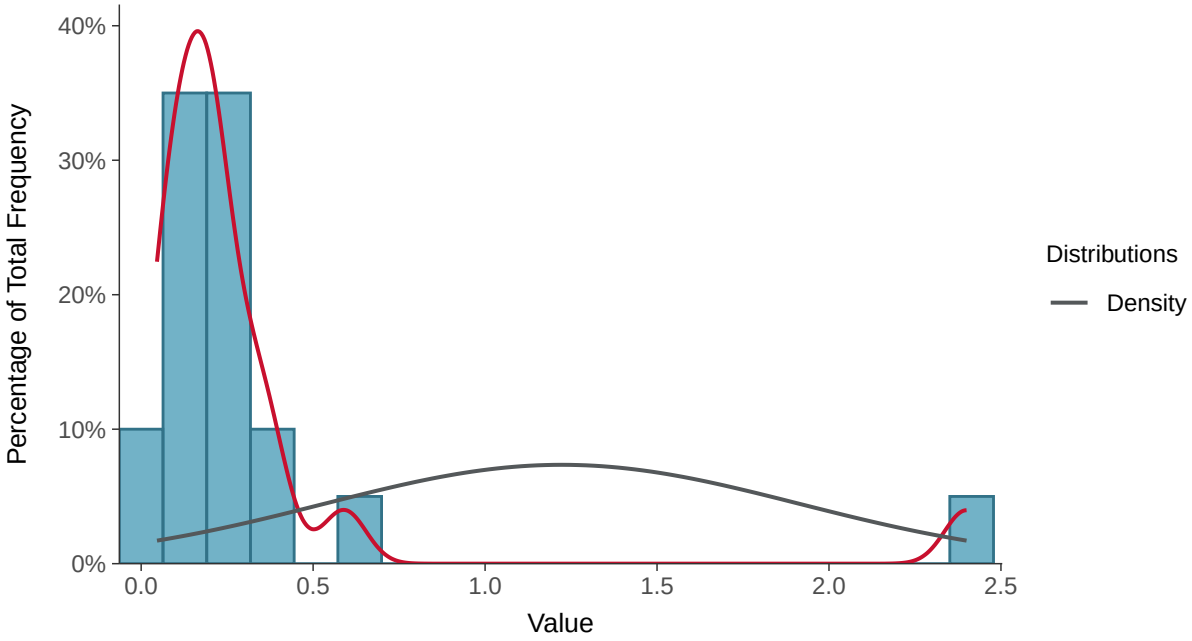
Scatter Plot

Barium, MW-09 (mg/L)



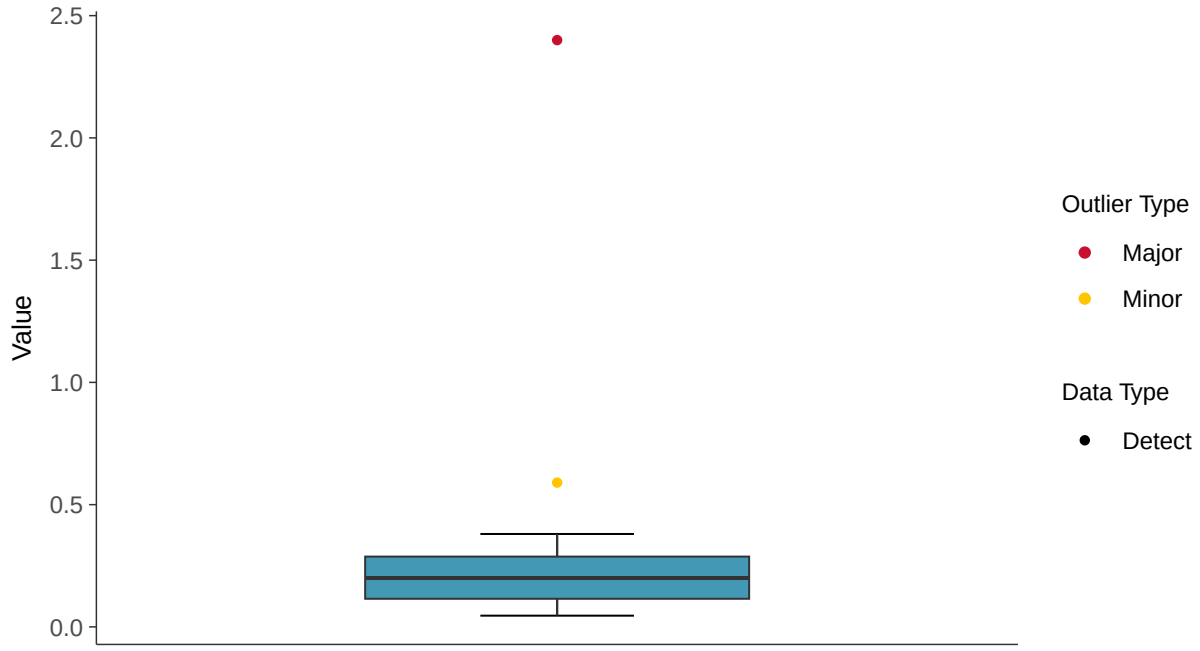
Histogram

Barium, MW-09 (mg/L)



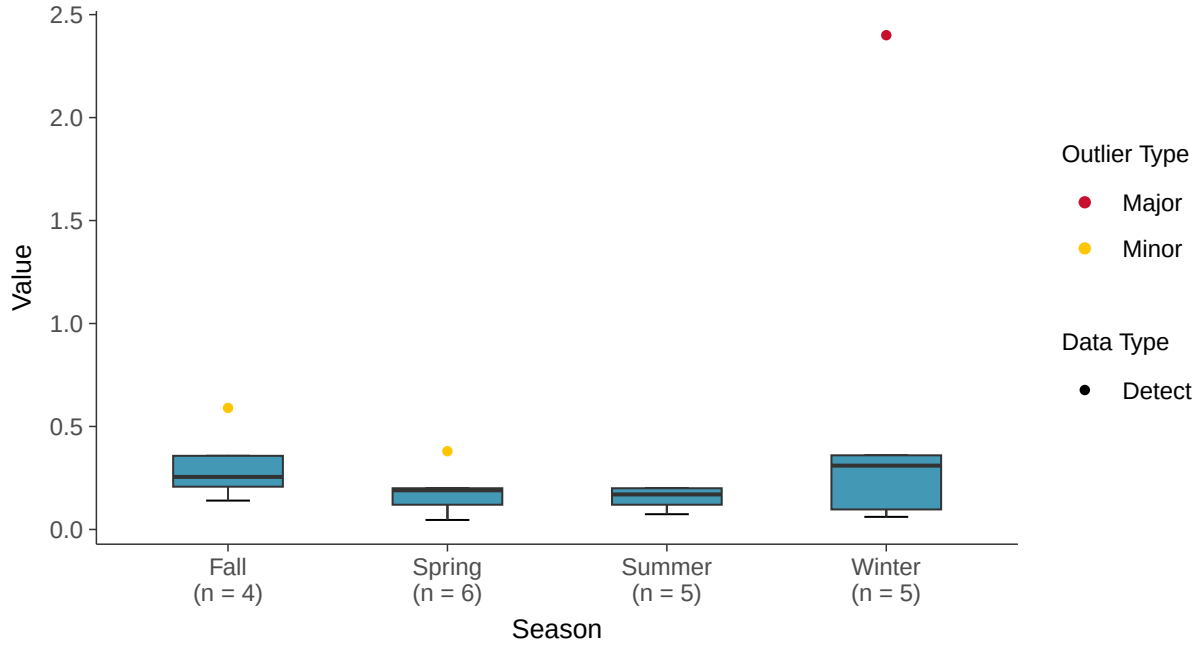
Boxplot

Barium, MW-09 (mg/L)



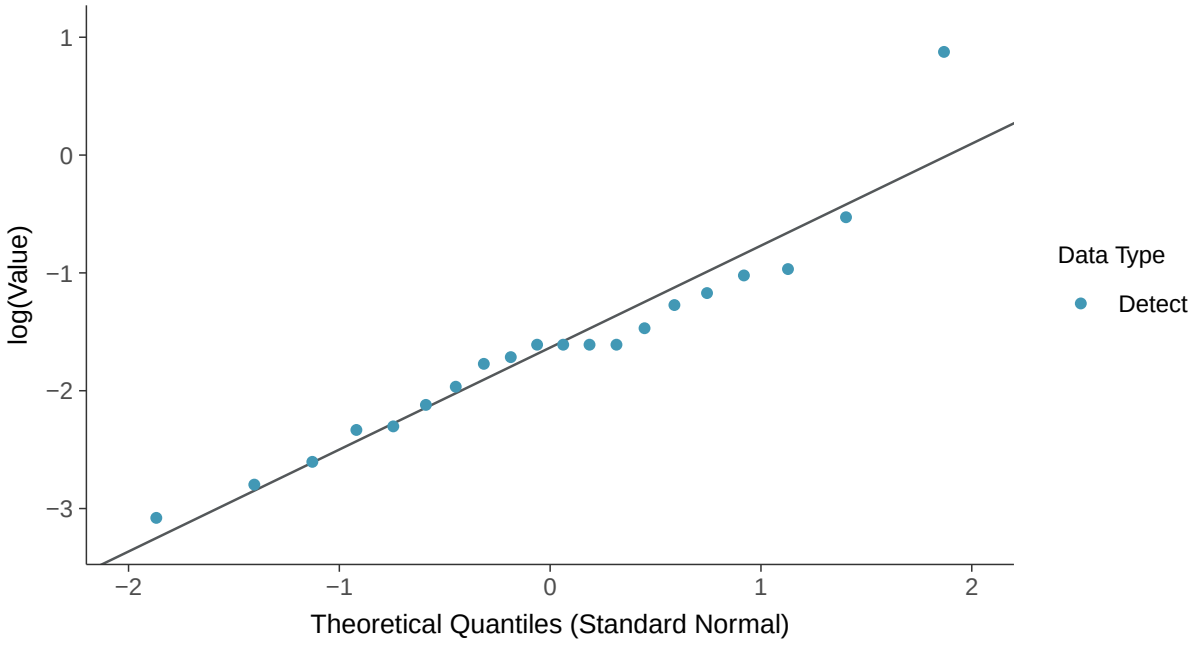
Boxplot by Season

Barium, MW-09 (mg/L)



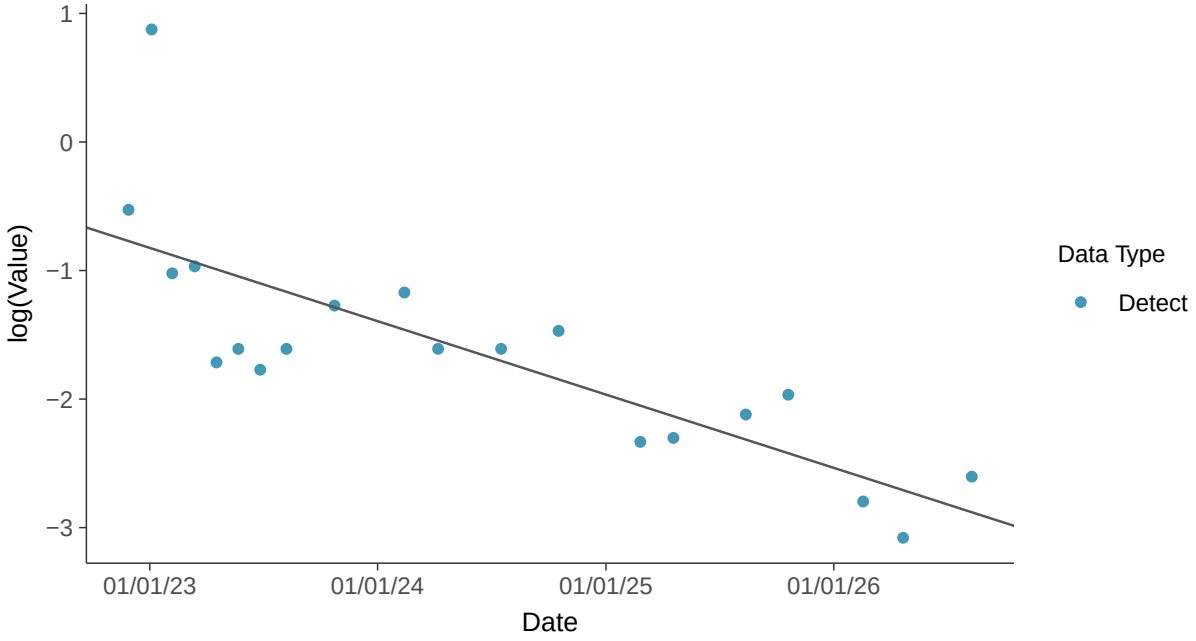
Lognormal Q-Q plot

Barium, MW-09 (mg/L)



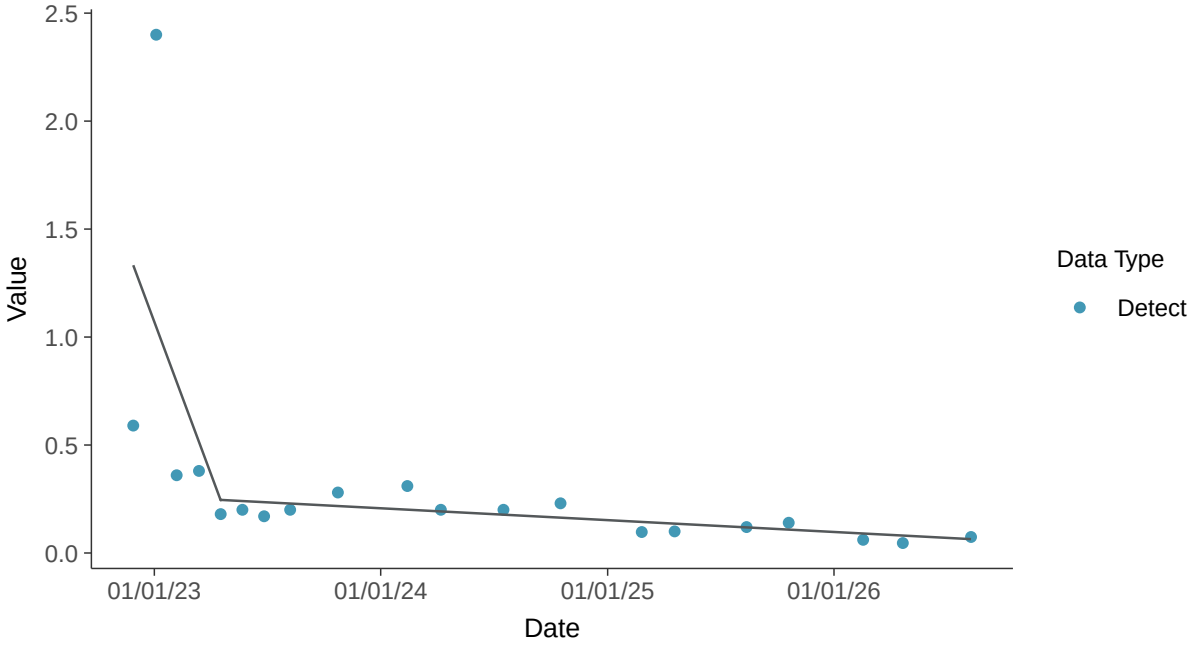
Trend Regression: Lognormal MLE

Barium, MW-09 (mg/L)



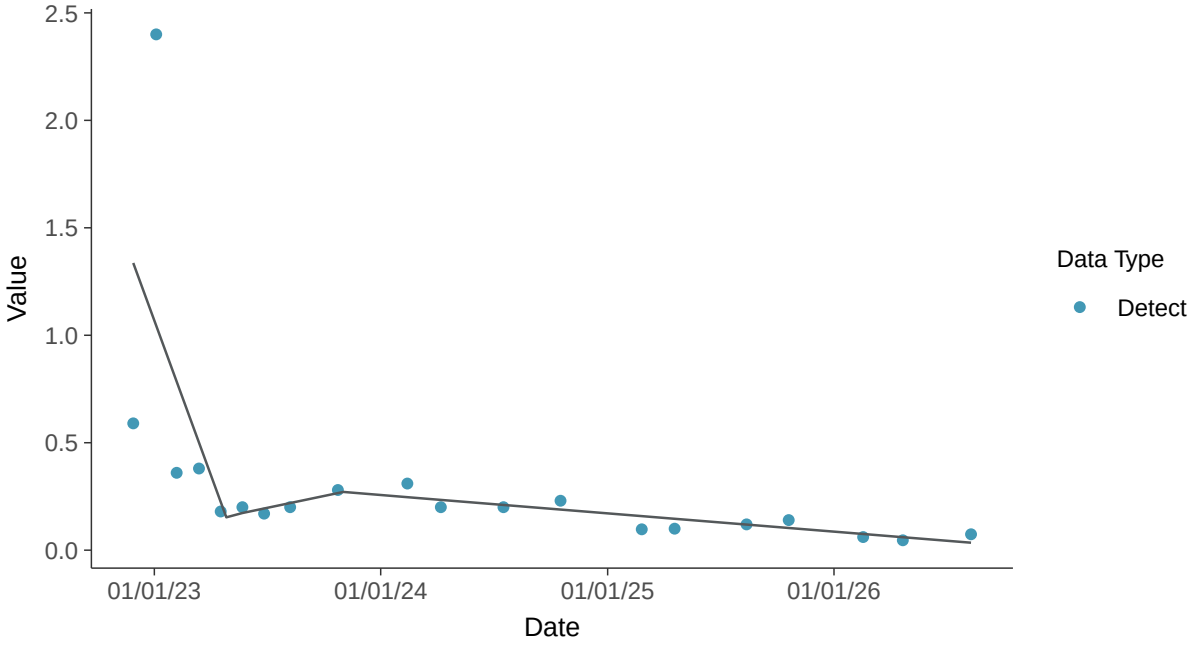
Trend Regression: Piecewise Linear-Linear

Barium, MW-09 (mg/L)



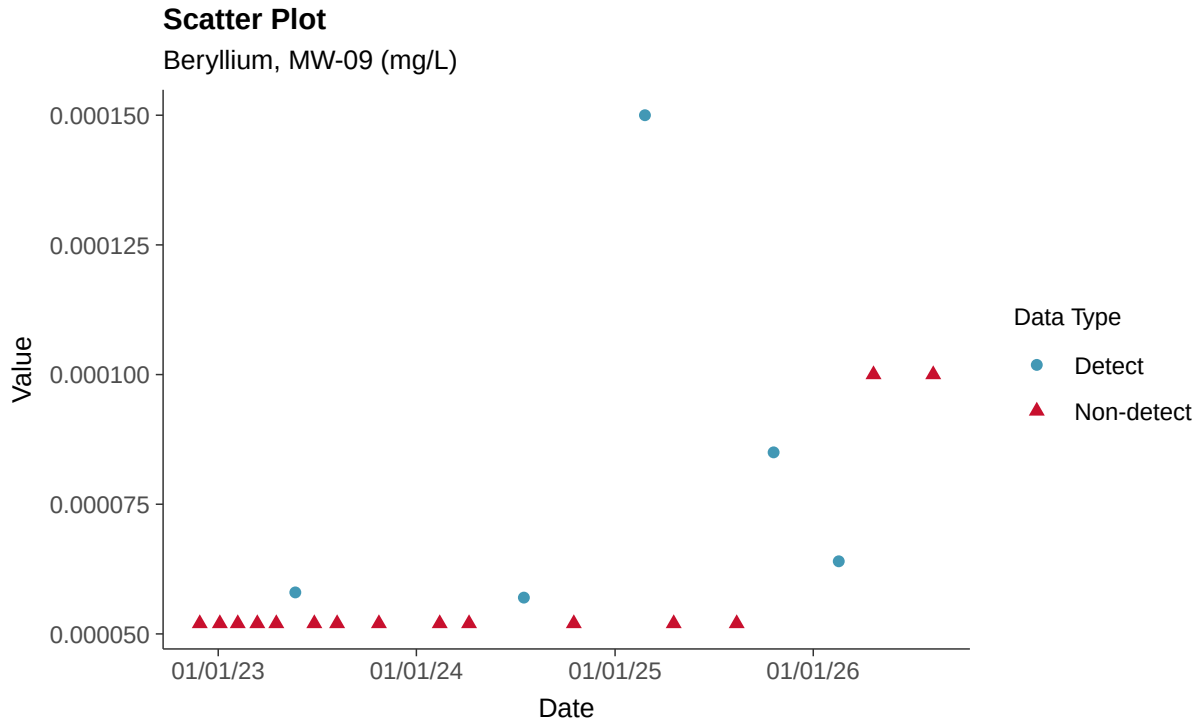
Trend Regression: Piecewise Linear-Linear-Linear

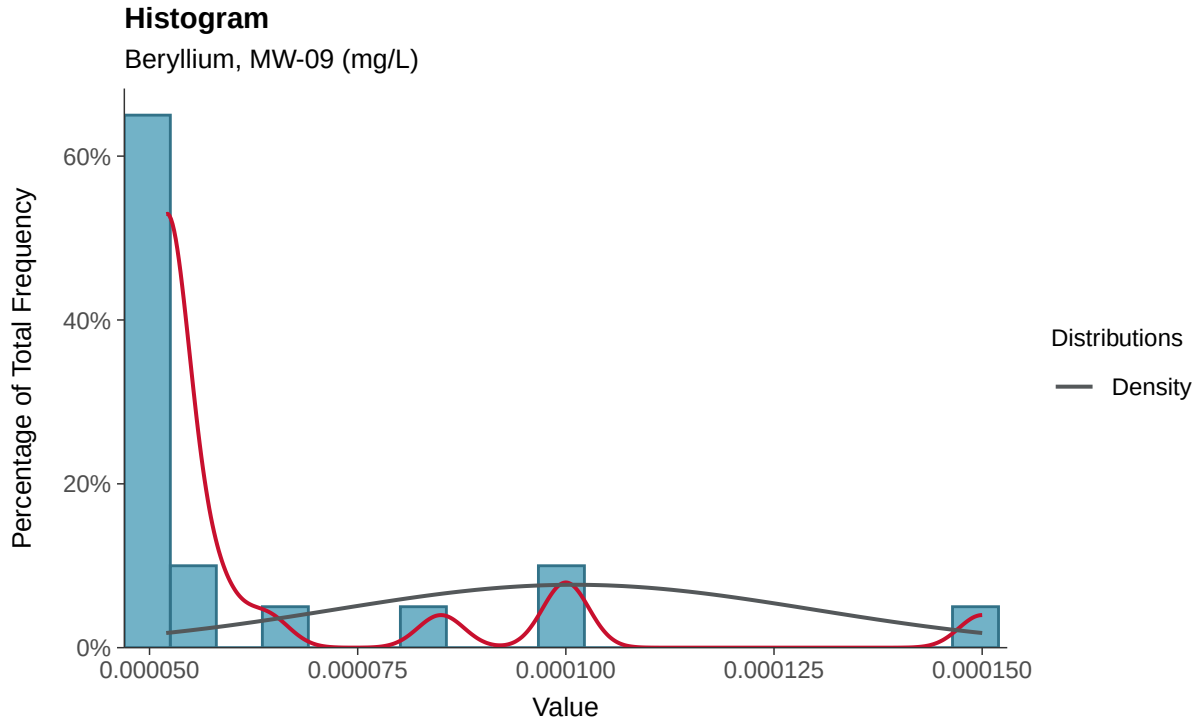
Barium, MW-09 (mg/L)



Appendix IV: Beryllium, MW-09

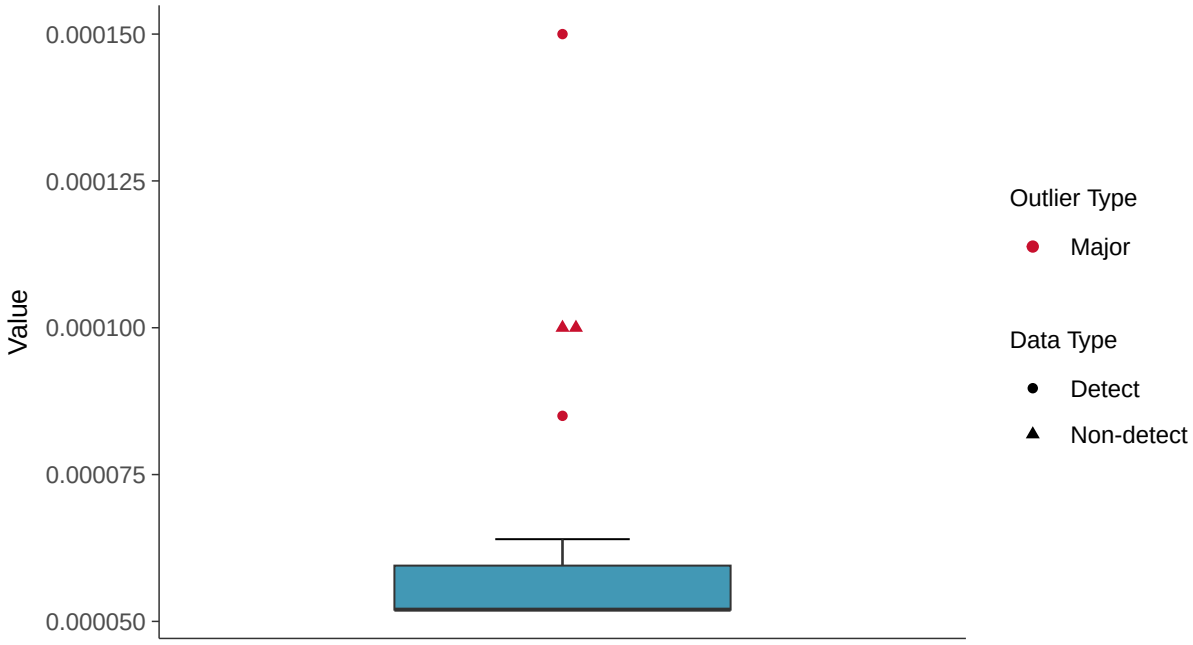
ID: 19_2_4_104





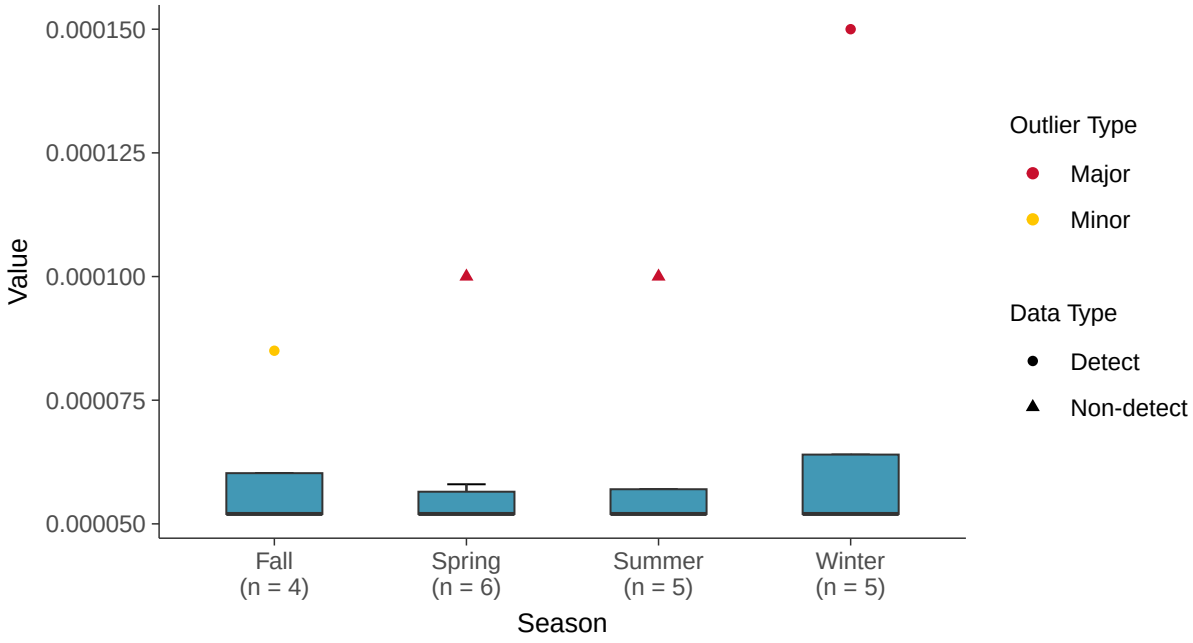
Boxplot

Beryllium, MW-09 (mg/L)



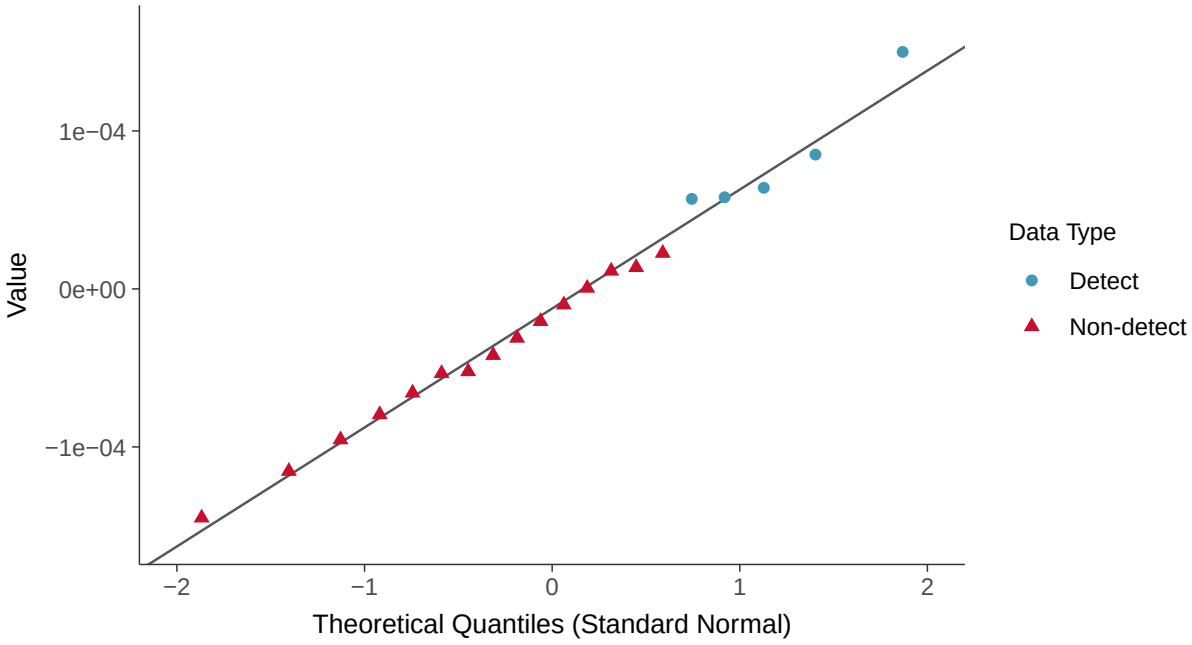
Boxplot by Season

Beryllium, MW-09 (mg/L)



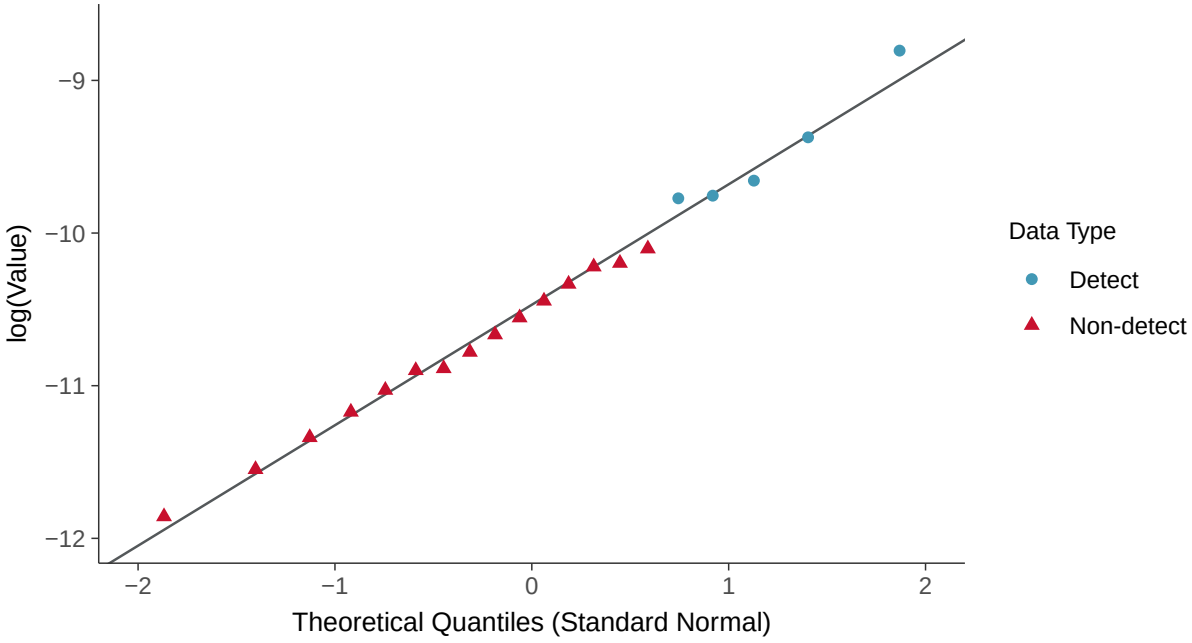
Normal Q-Q plot using ROS Imputed Estimates

Beryllium, MW-09 (mg/L)



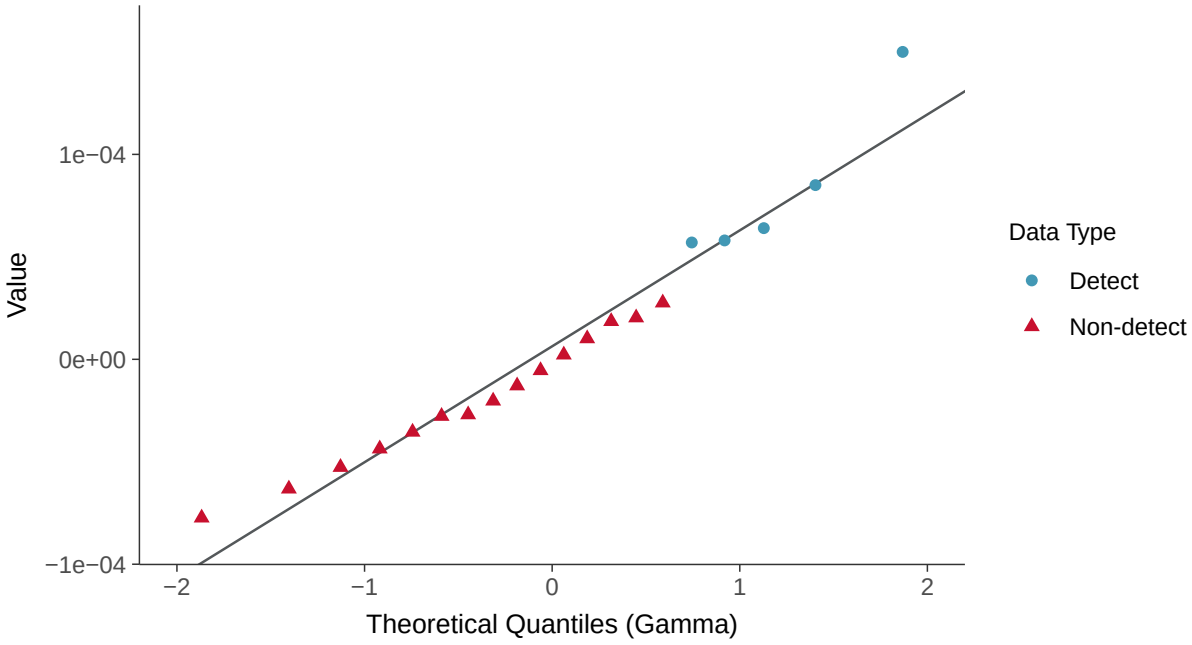
Lognormal Q-Q plot using ROS Imputed Estimates

Beryllium, MW-09 (mg/L)



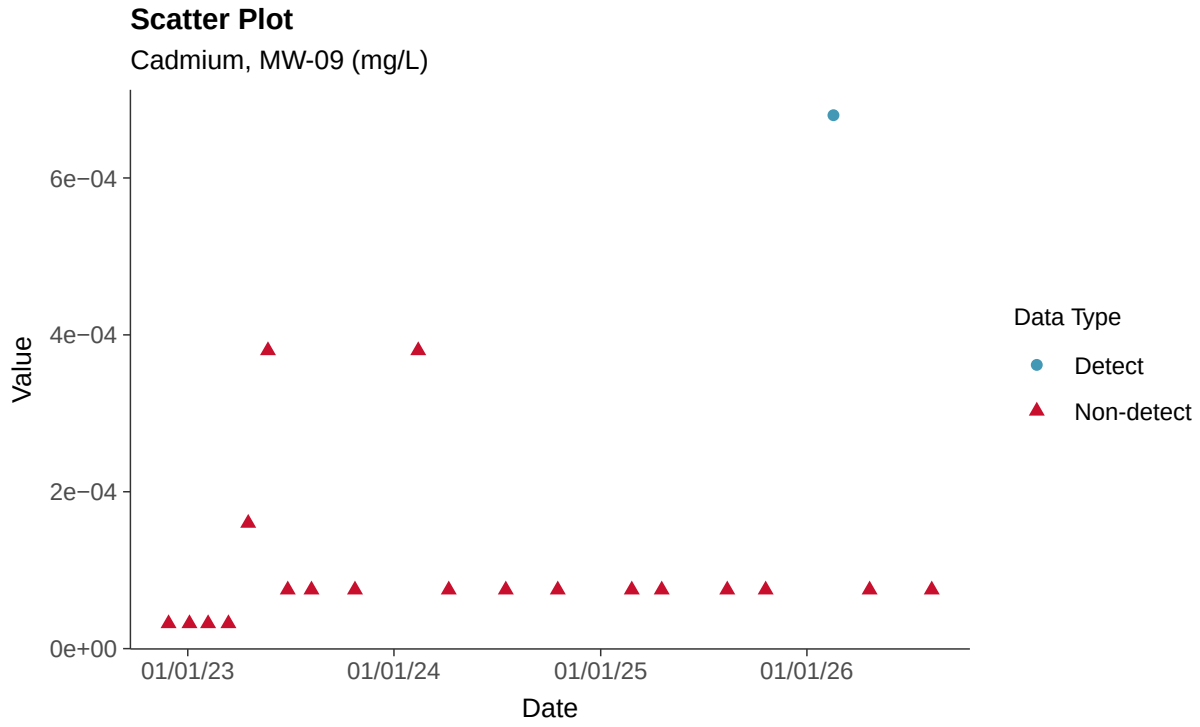
Gamma Q-Q plot using ROS Imputed Estimates

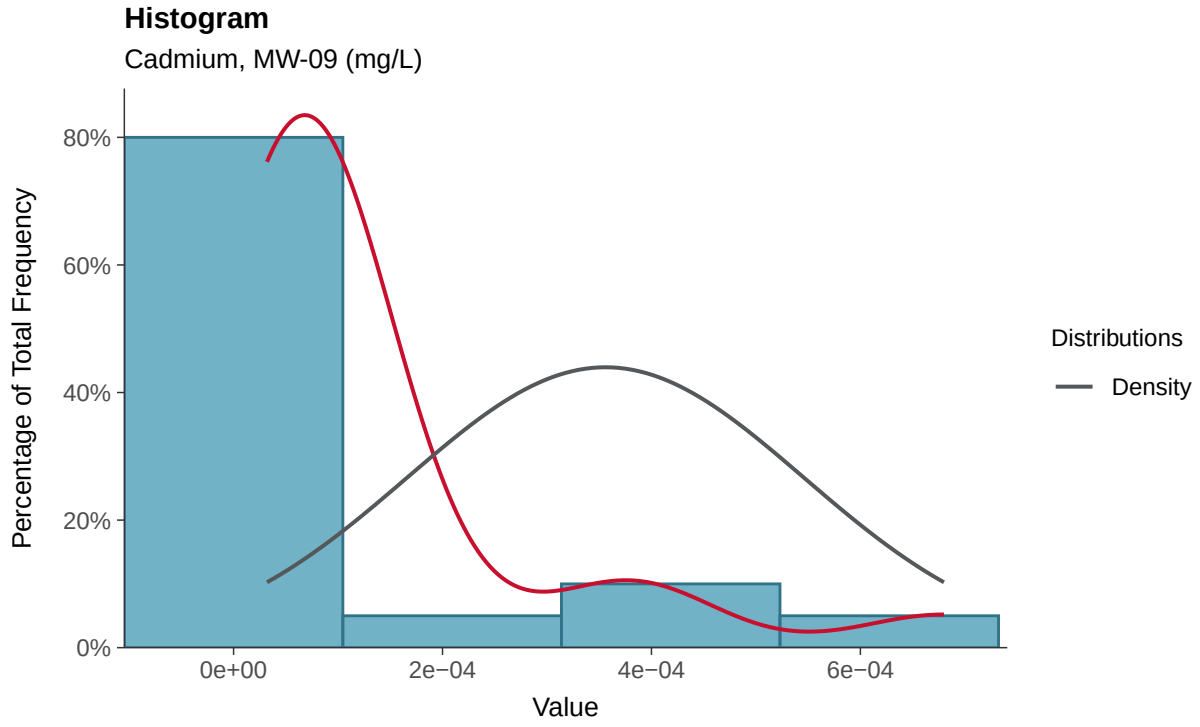
Beryllium, MW-09 (mg/L)



Appendix IV: Cadmium, MW-09

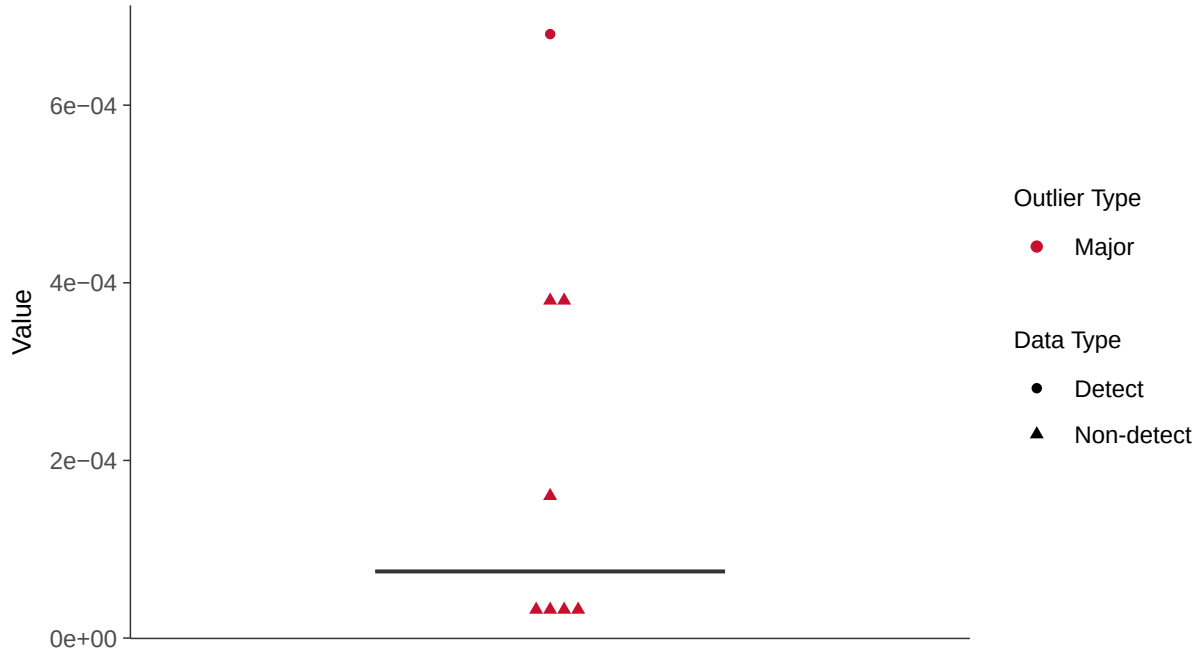
ID: 19_2_4_106





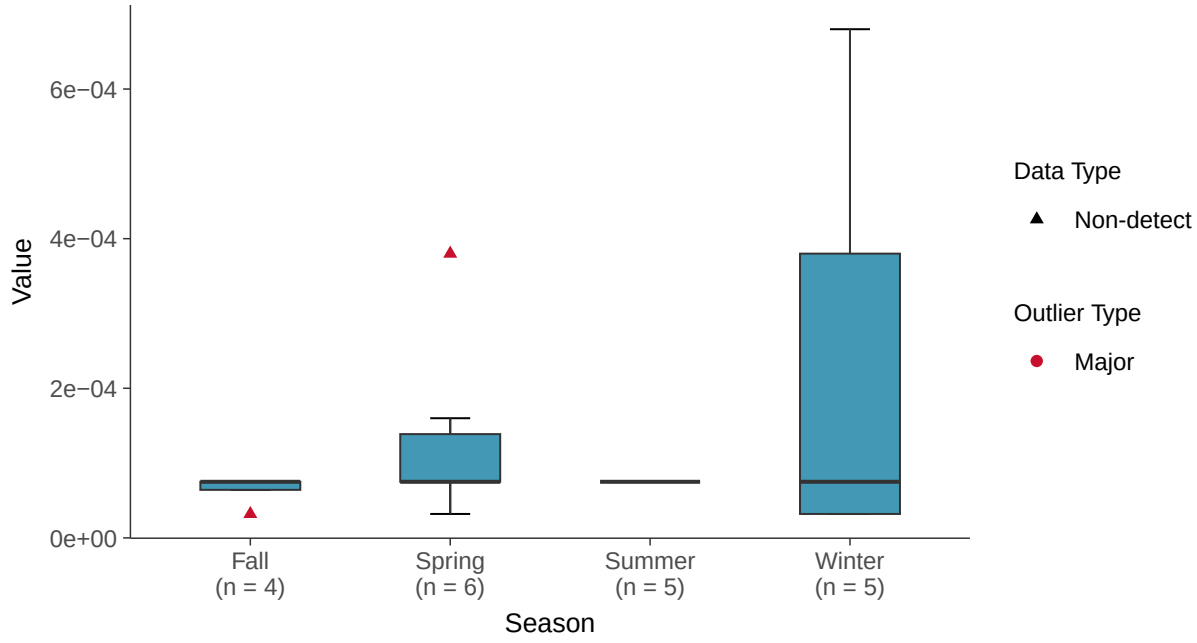
Boxplot

Cadmium, MW-09 (mg/L)



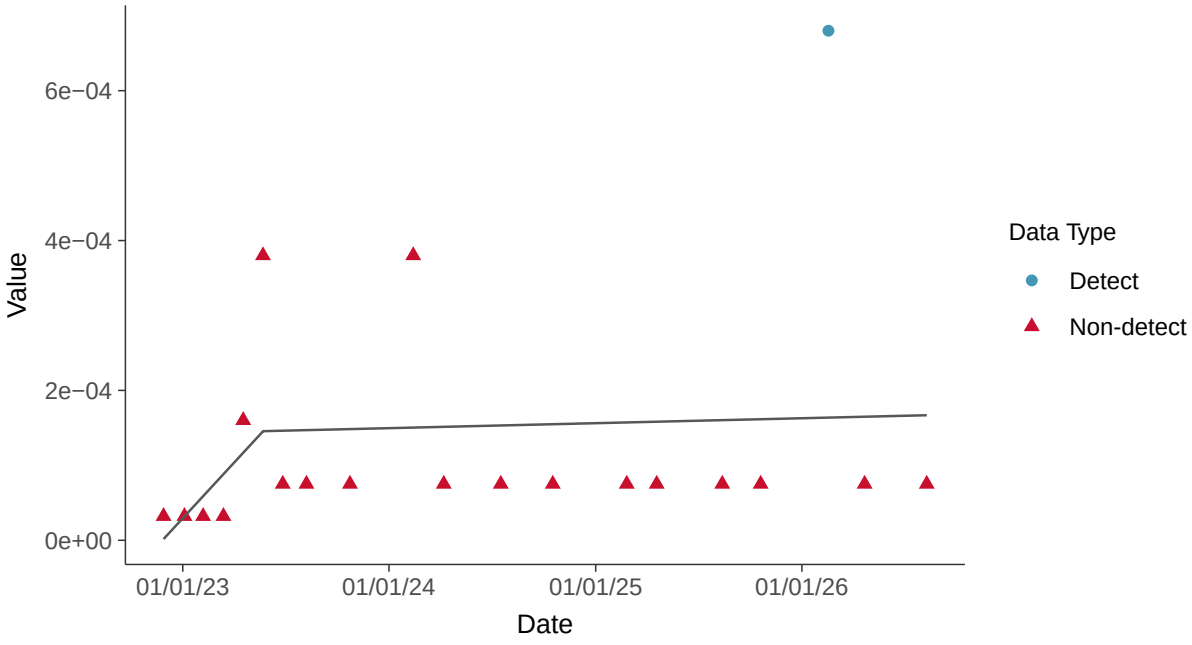
Boxplot by Season

Cadmium, MW-09 (mg/L)



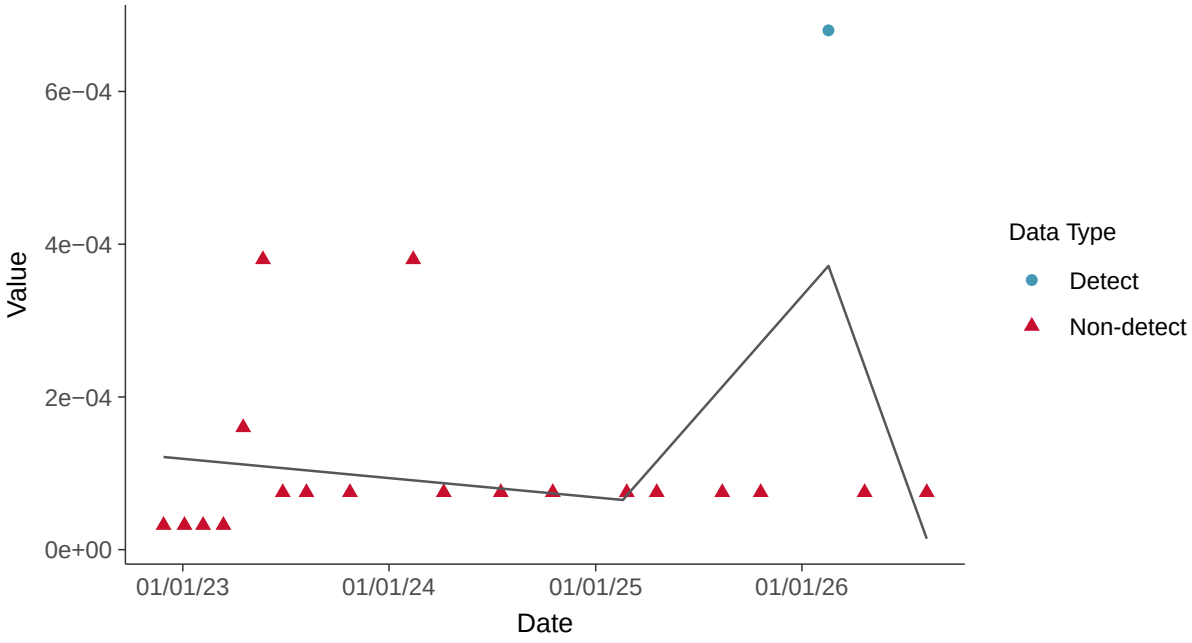
Trend Regression: Piecewise Linear-Linear

Cadmium, MW-09 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Cadmium, MW-09 (mg/L)

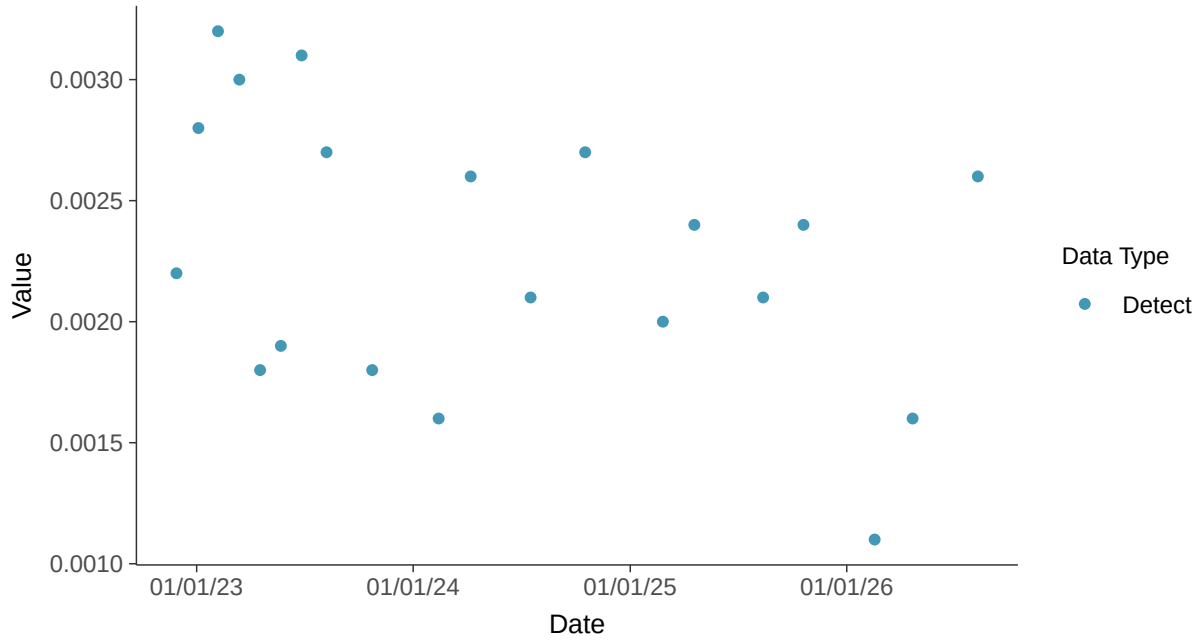


Appendix IV: Chromium, Total, MW-09

ID: 19_2_4_109

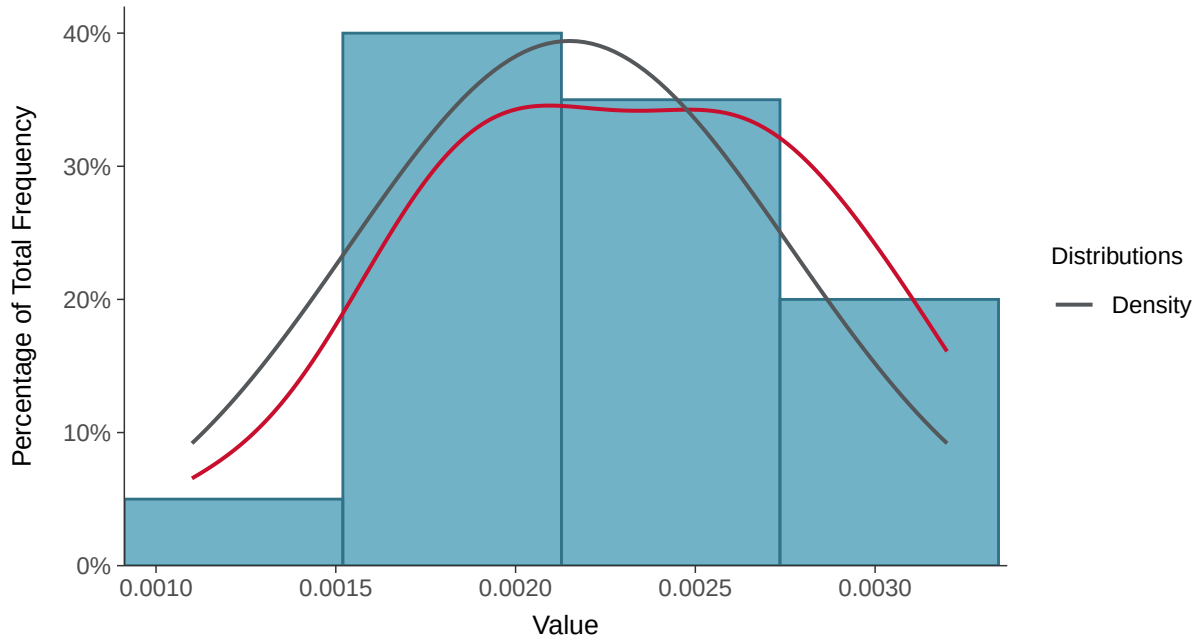
Scatter Plot

Chromium, Total, MW-09 (mg/L)



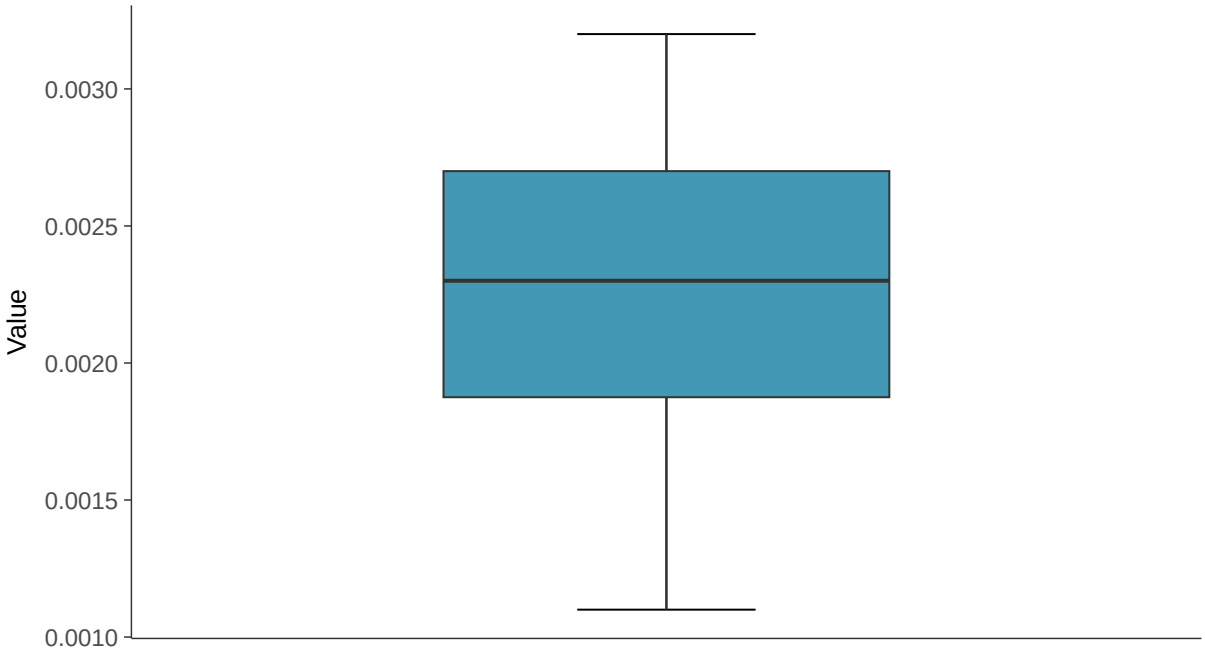
Histogram

Chromium, Total, MW-09 (mg/L)



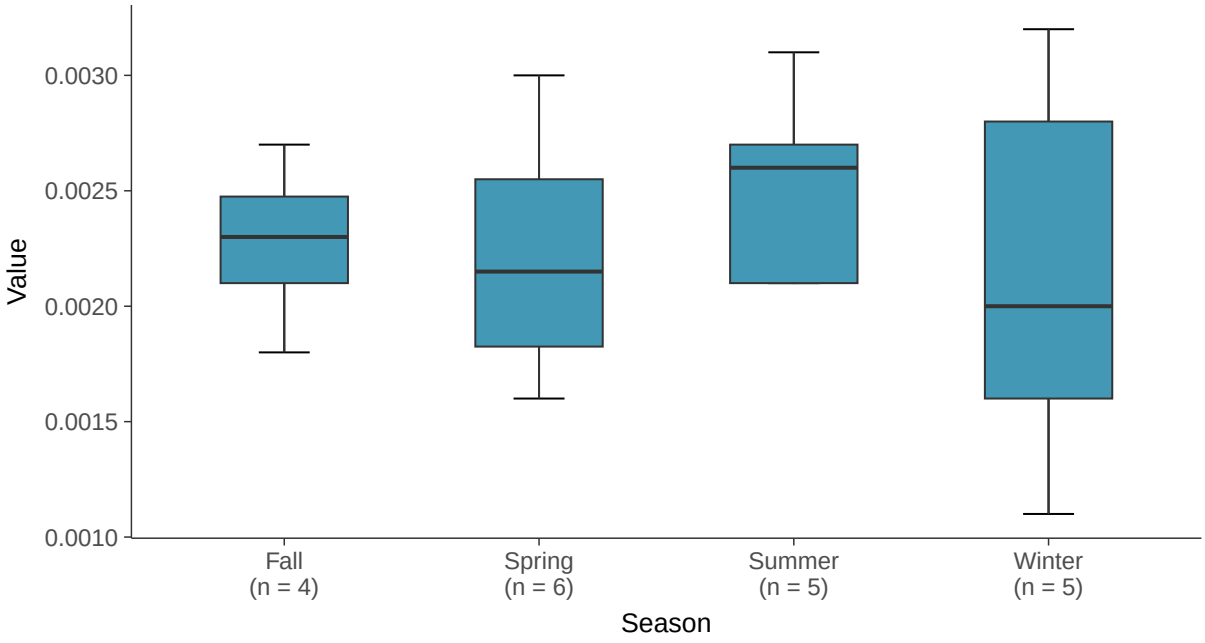
Boxplot

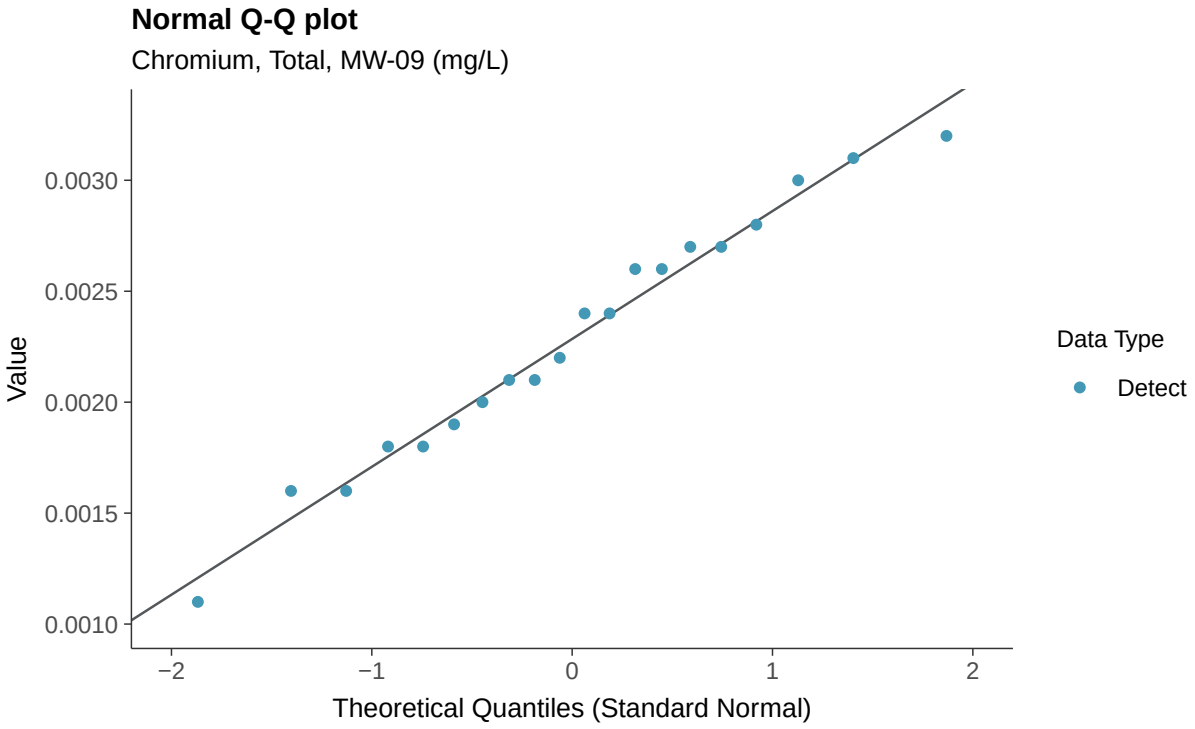
Chromium, Total, MW-09 (mg/L)

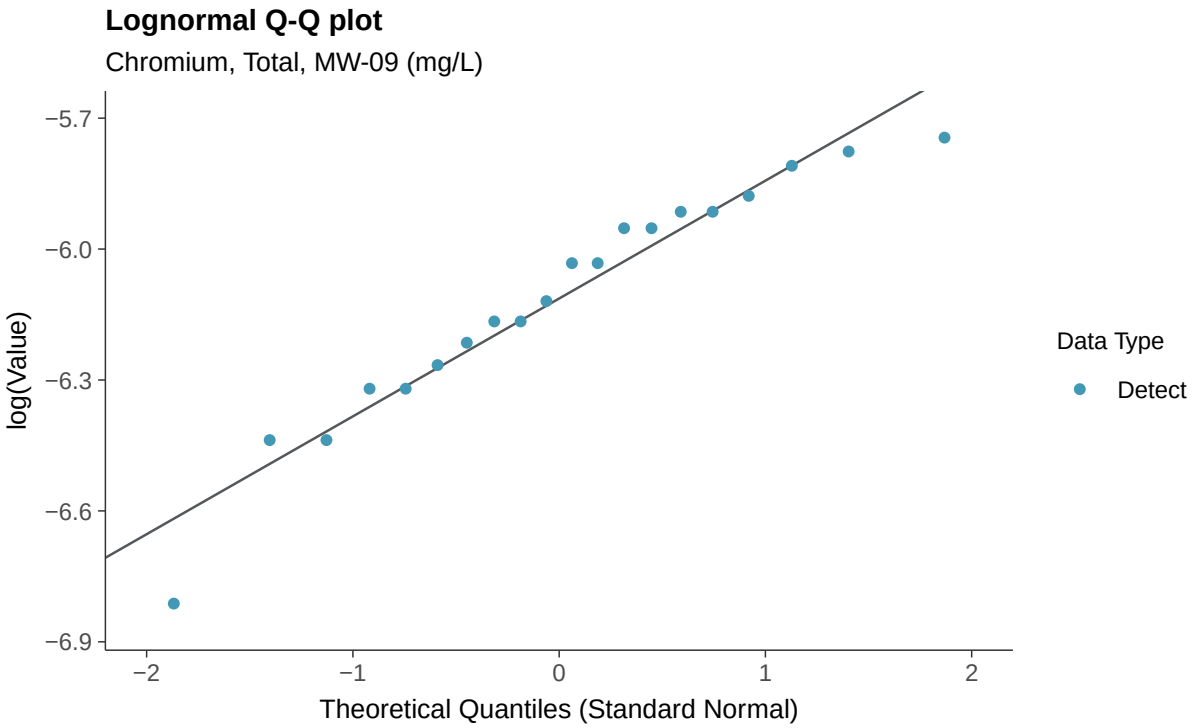


Boxplot by Season

Chromium, Total, MW-09 (mg/L)

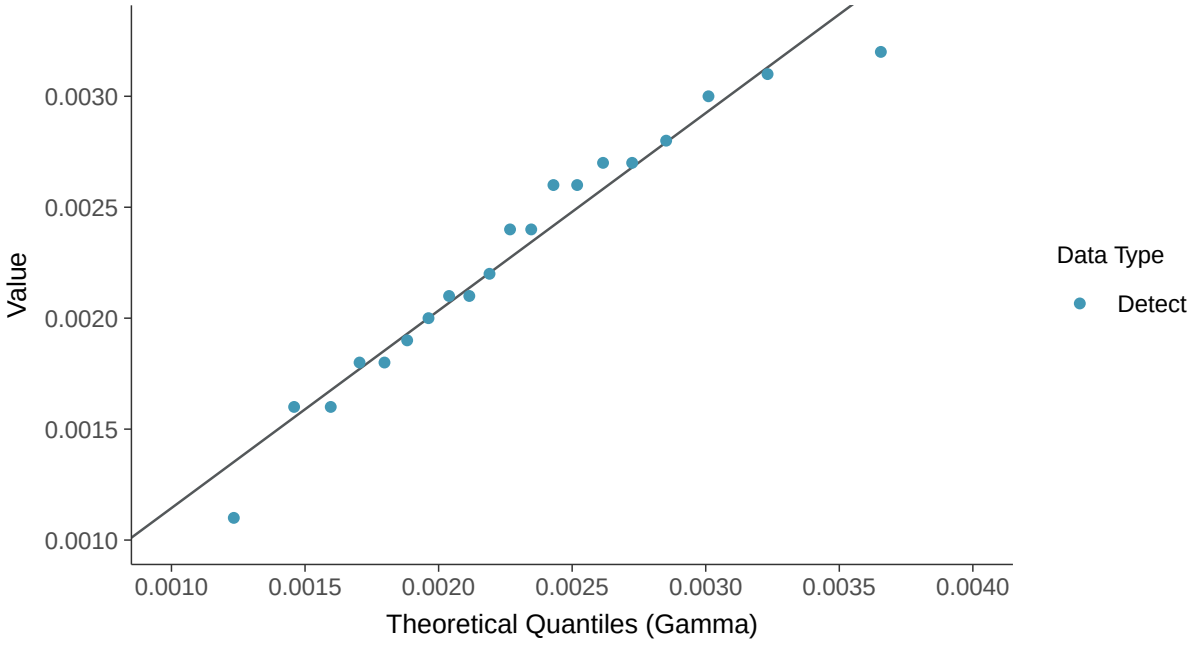



Normal Q-Q plot
Chromium, Total, MW-09 (mg/L)
Value
0.0030
0.0025
0.0020
0.0015
0.0010
−2
−1
0
1
2
Theoretical Quantiles (Standard Normal)
Data Type
Detect


Lognormal Q-Q plot
Chromium, Total, MW-09 (mg/L)
log(Value)
−5.7
−6.0
−6.3
−6.6
−6.9
−2
−1
0
1
2
Theoretical Quantiles (Standard Normal)
Data Type
Detect

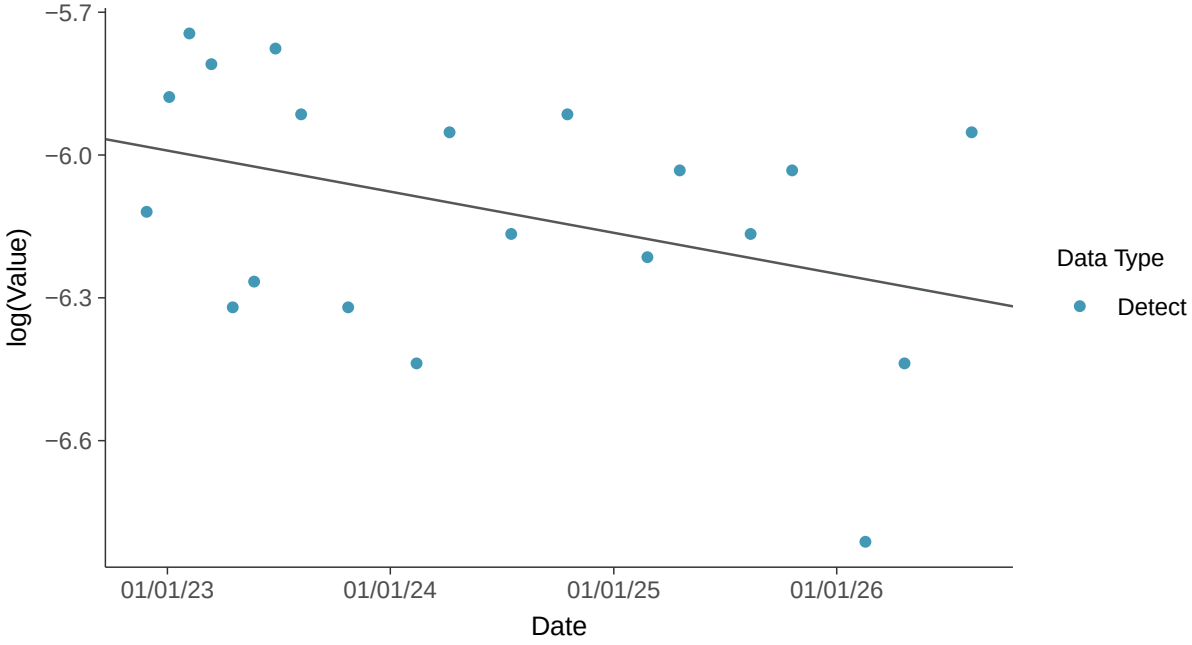
Gamma Q-Q plot

Chromium, Total, MW-09 (mg/L)



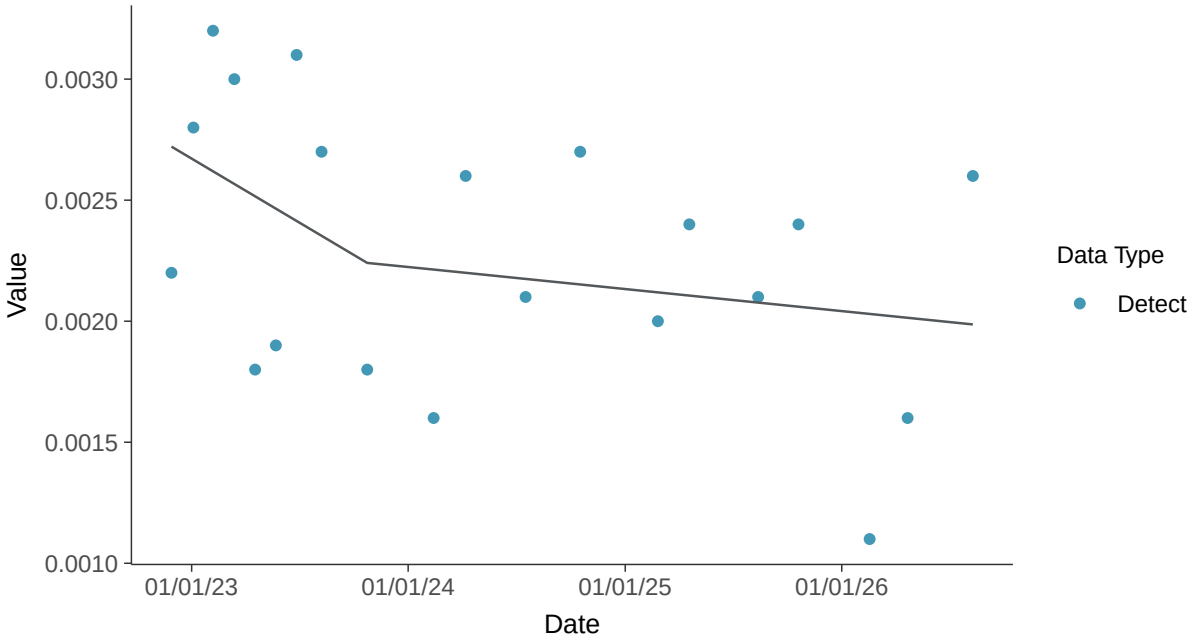
Trend Regression: Lognormal MLE

Chromium, Total, MW-09 (mg/L)



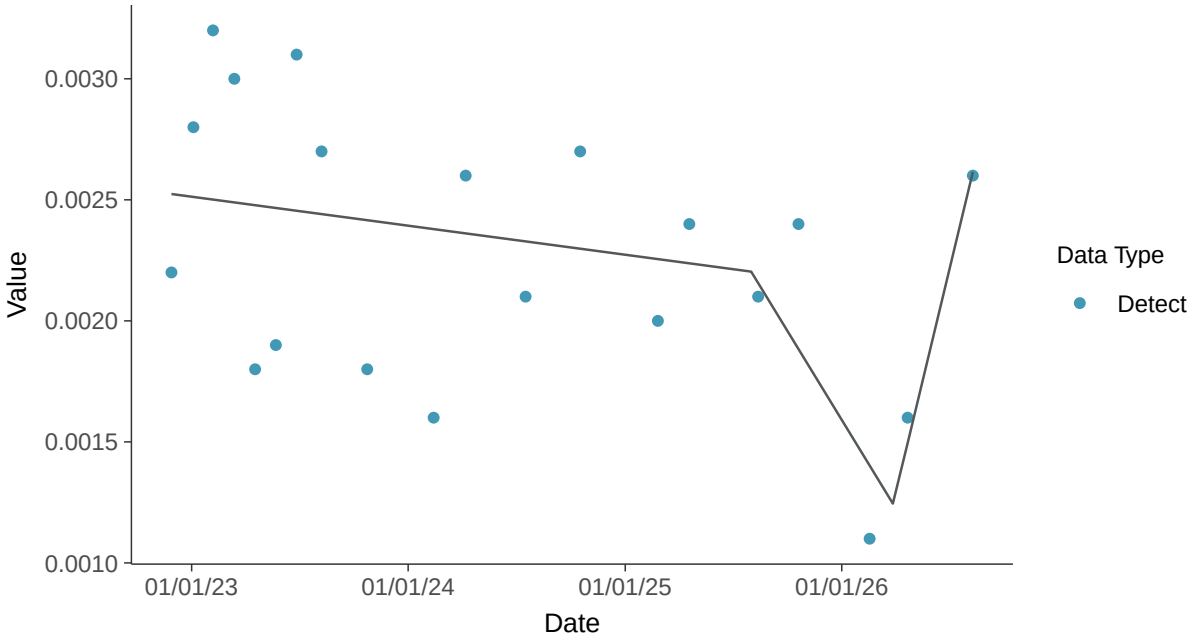
Trend Regression: Piecewise Linear-Linear

Chromium, Total, MW-09 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Chromium, Total, MW-09 (mg/L)

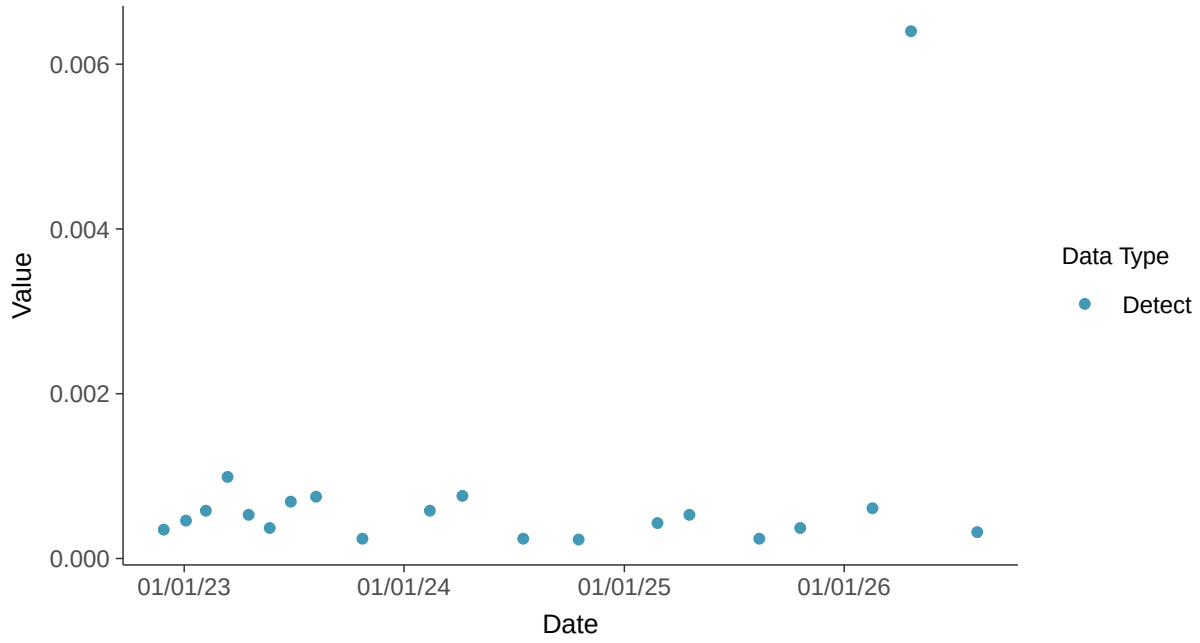


Appendix IV: Cobalt, MW-09

ID: 19_2_4_110

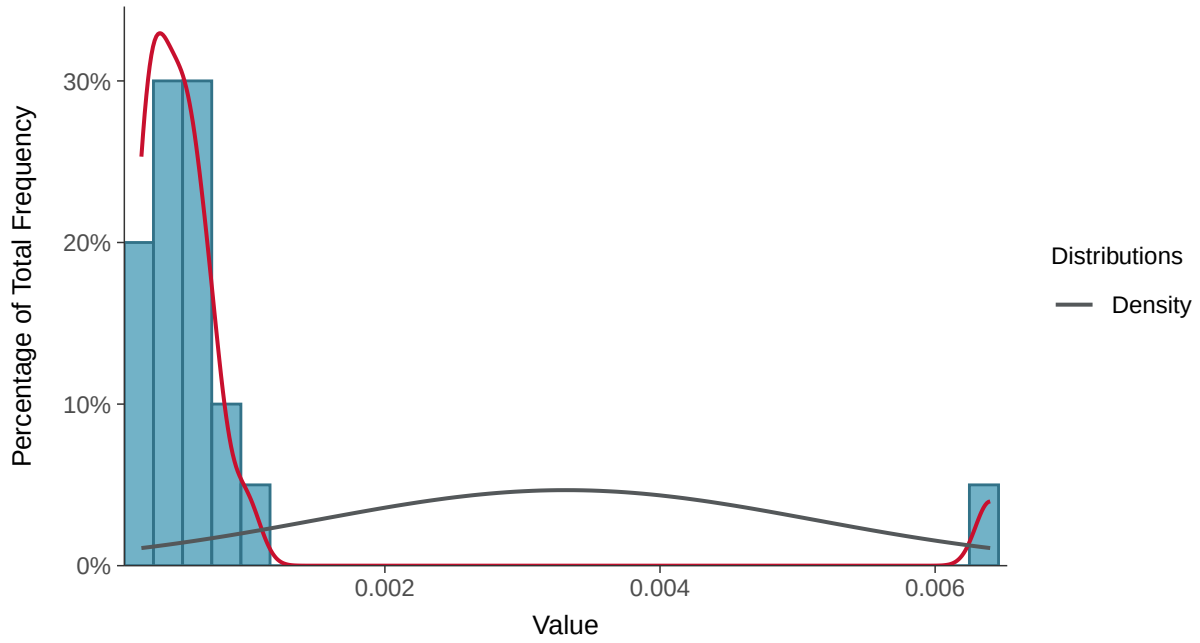
Scatter Plot

Cobalt, MW-09 (mg/L)



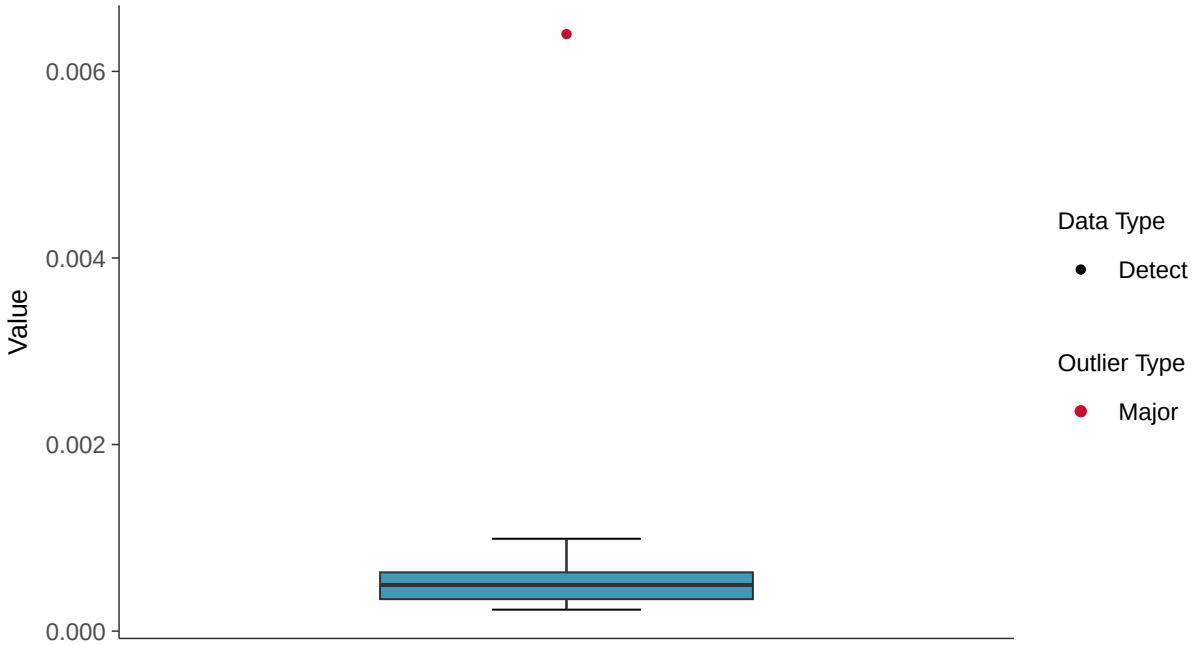
Histogram

Cobalt, MW-09 (mg/L)



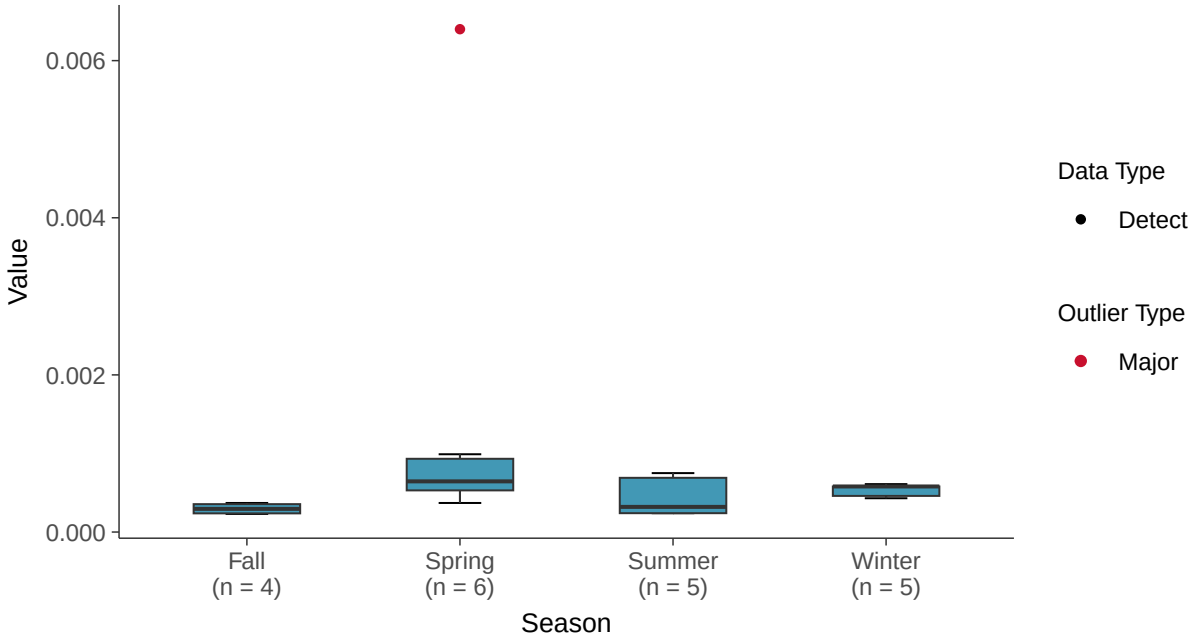
Boxplot

Cobalt, MW-09 (mg/L)



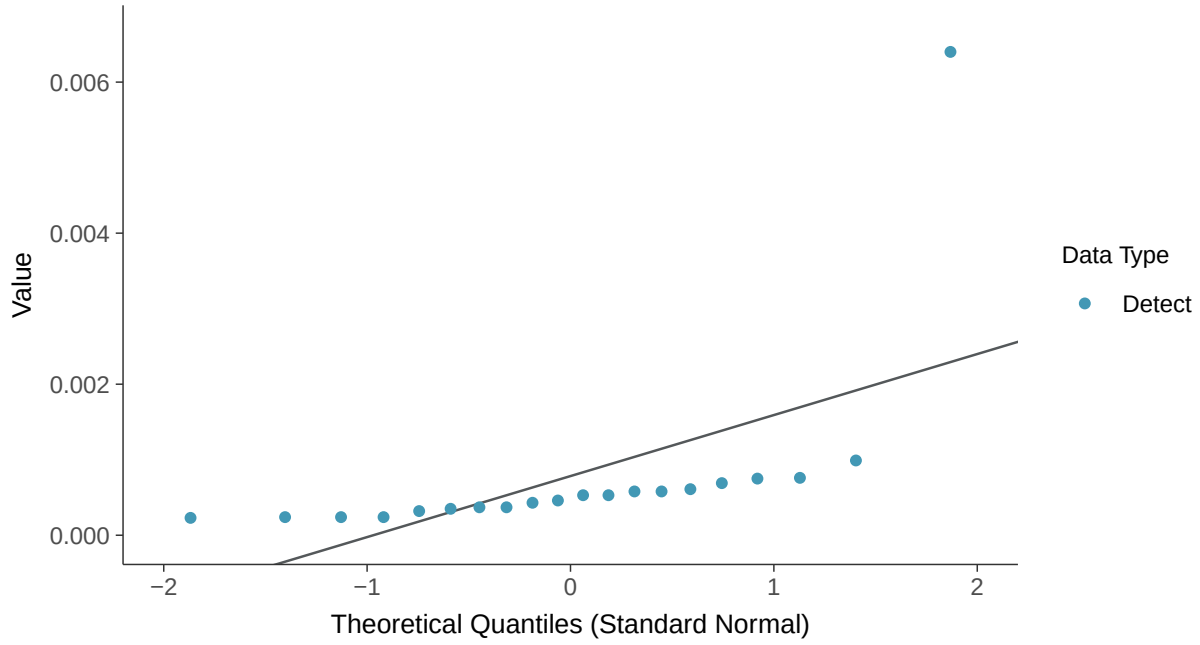
Boxplot by Season

Cobalt, MW-09 (mg/L)



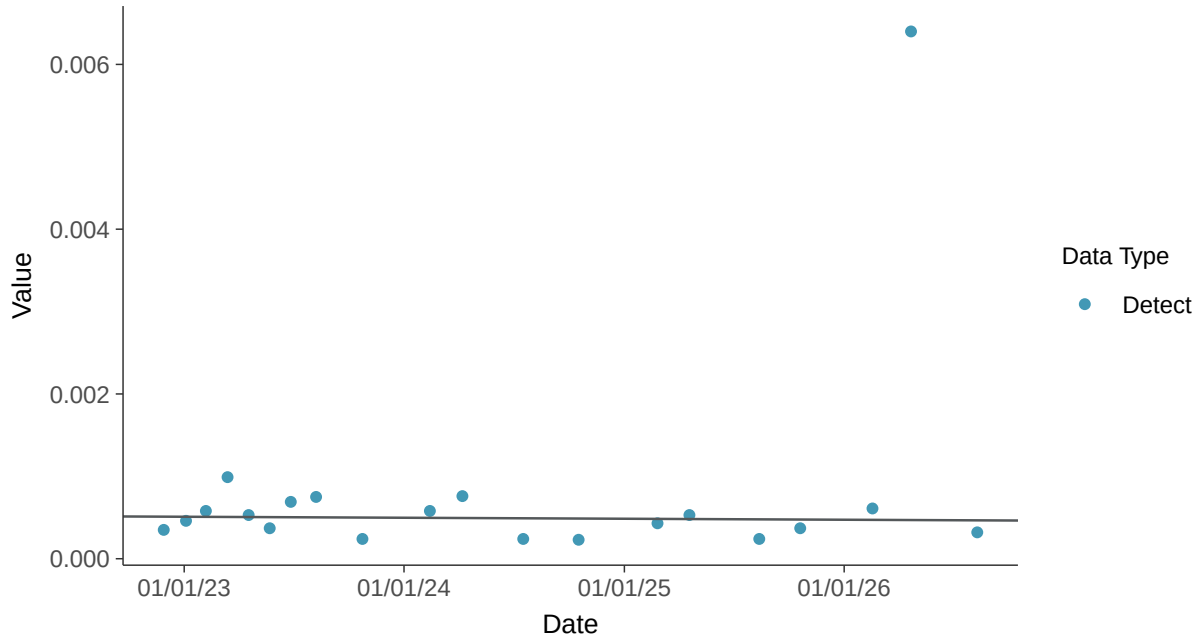
Normal Q-Q plot

Cobalt, MW-09 (mg/L)



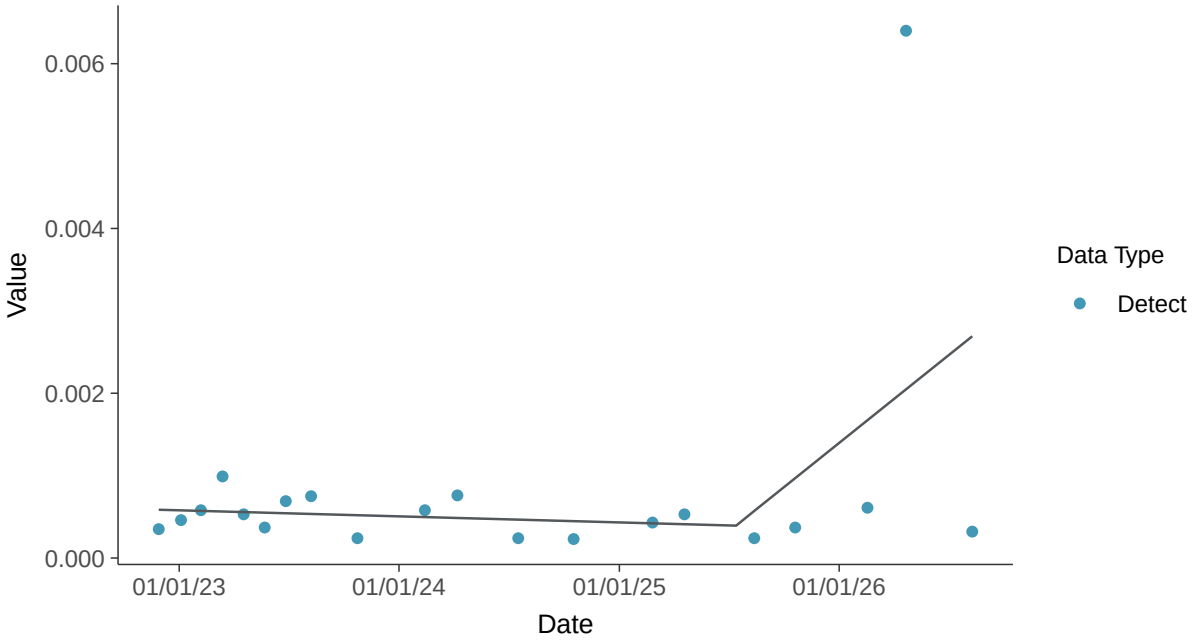
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Cobalt, MW-09 (mg/L)



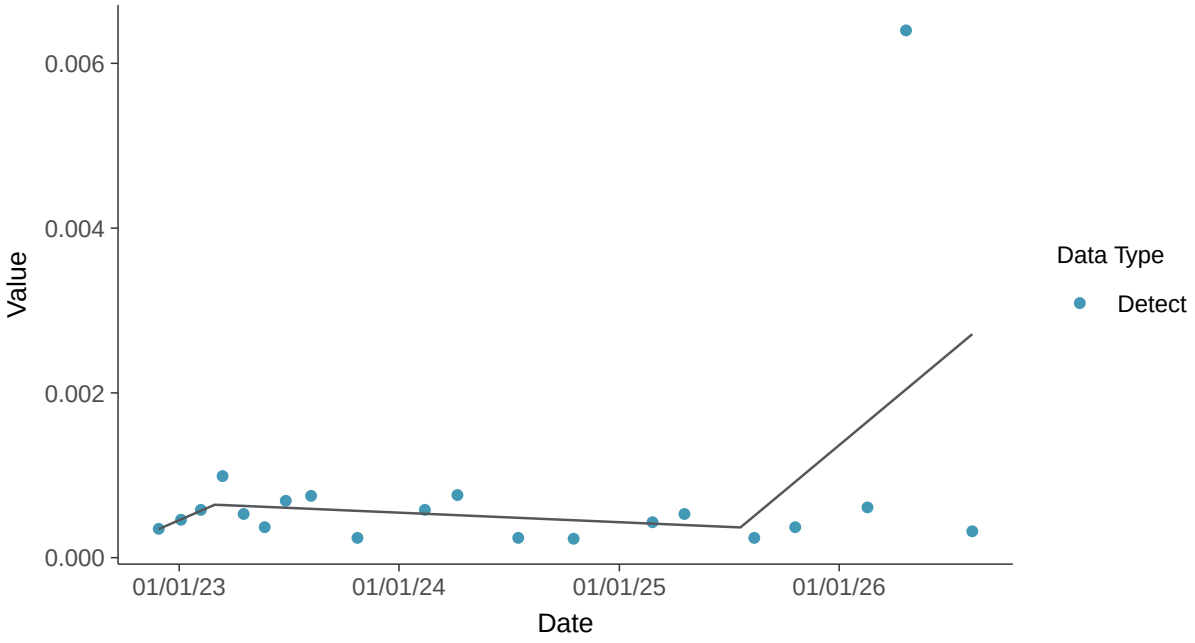
Trend Regression: Piecewise Linear-Linear

Cobalt, MW-09 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Cobalt, MW-09 (mg/L)

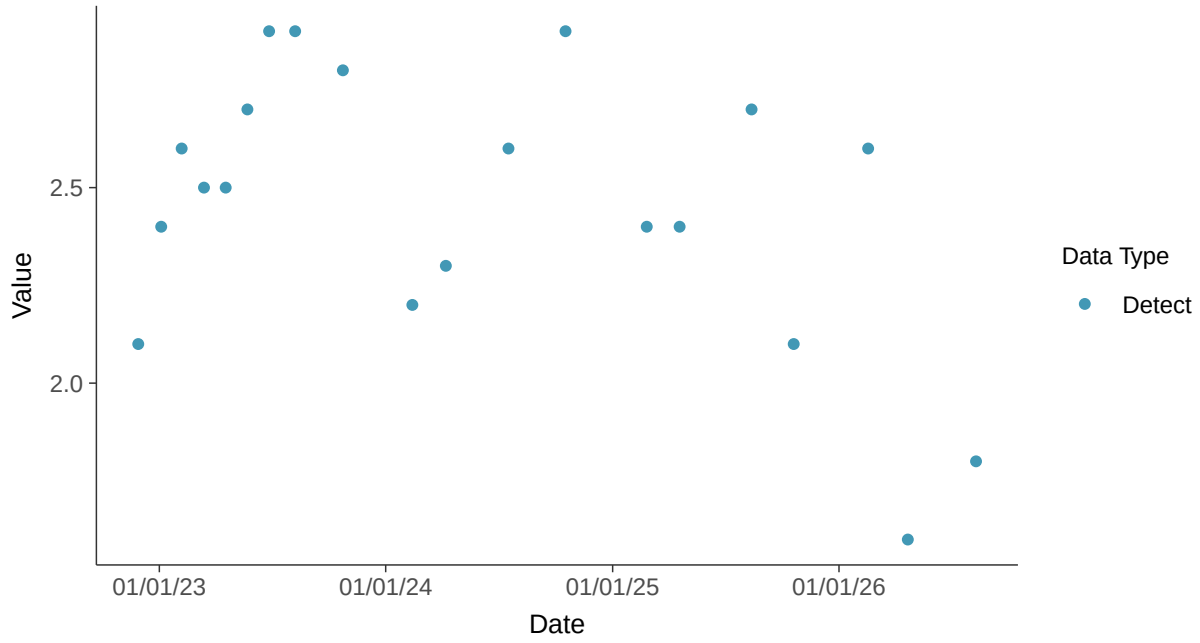


Appendix IV: Fluoride (App IV), MW-09

ID: 19_2_4_113

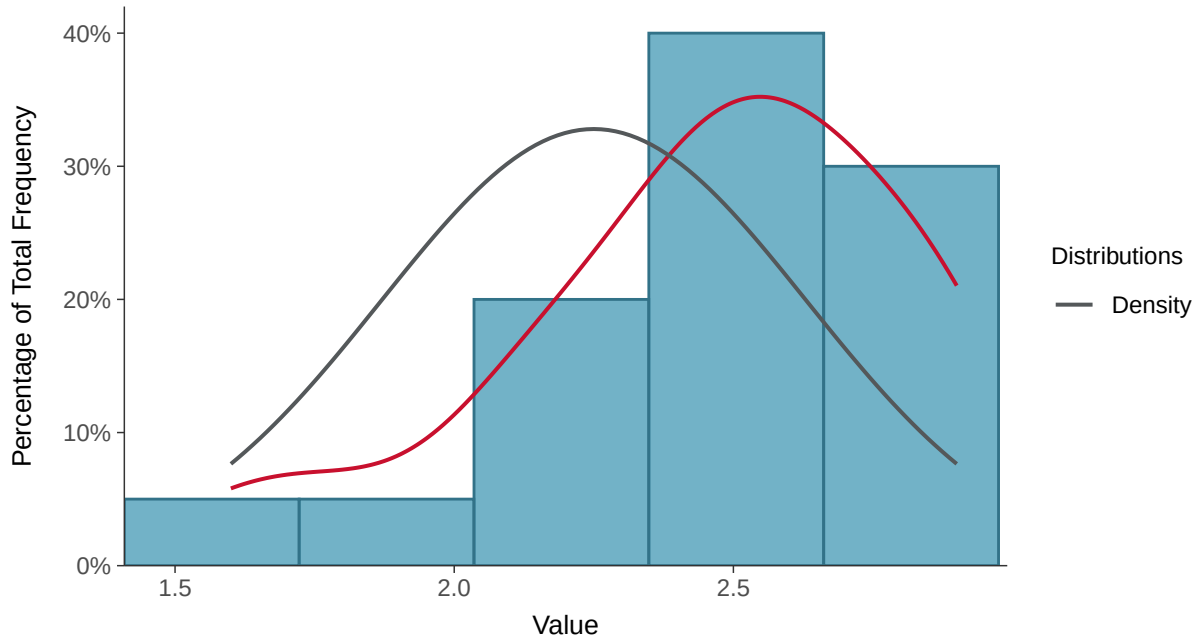
Scatter Plot

Fluoride (App IV), MW-09 (mg/L)



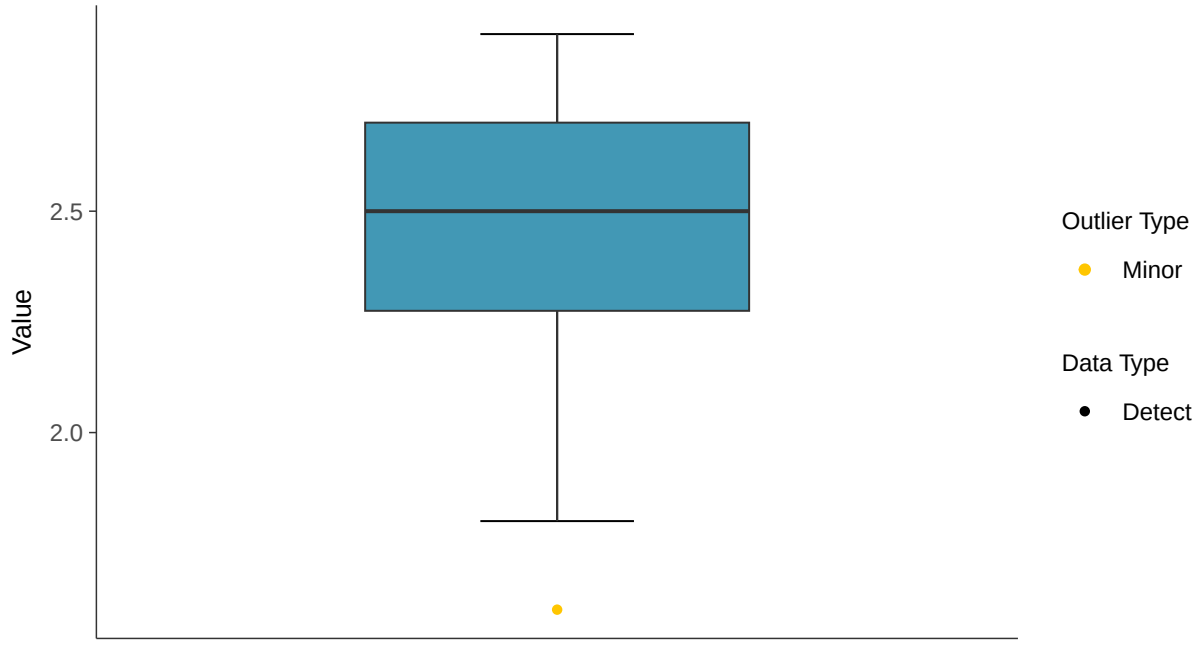
Histogram

Fluoride (App IV), MW-09 (mg/L)



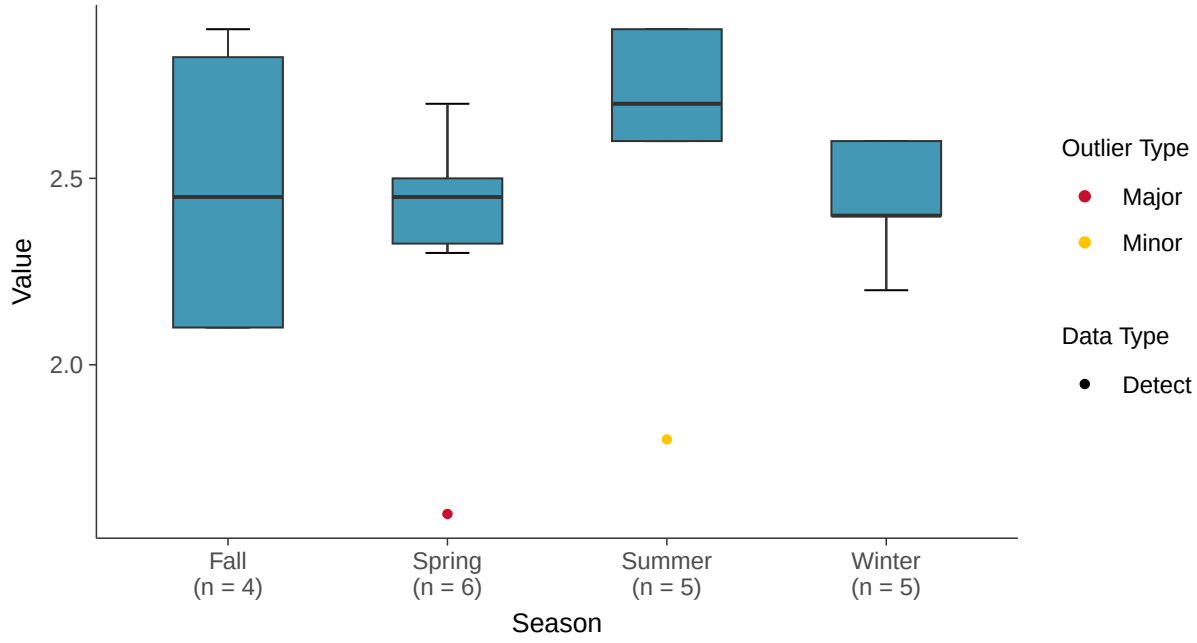
Boxplot

Fluoride (App IV), MW-09 (mg/L)



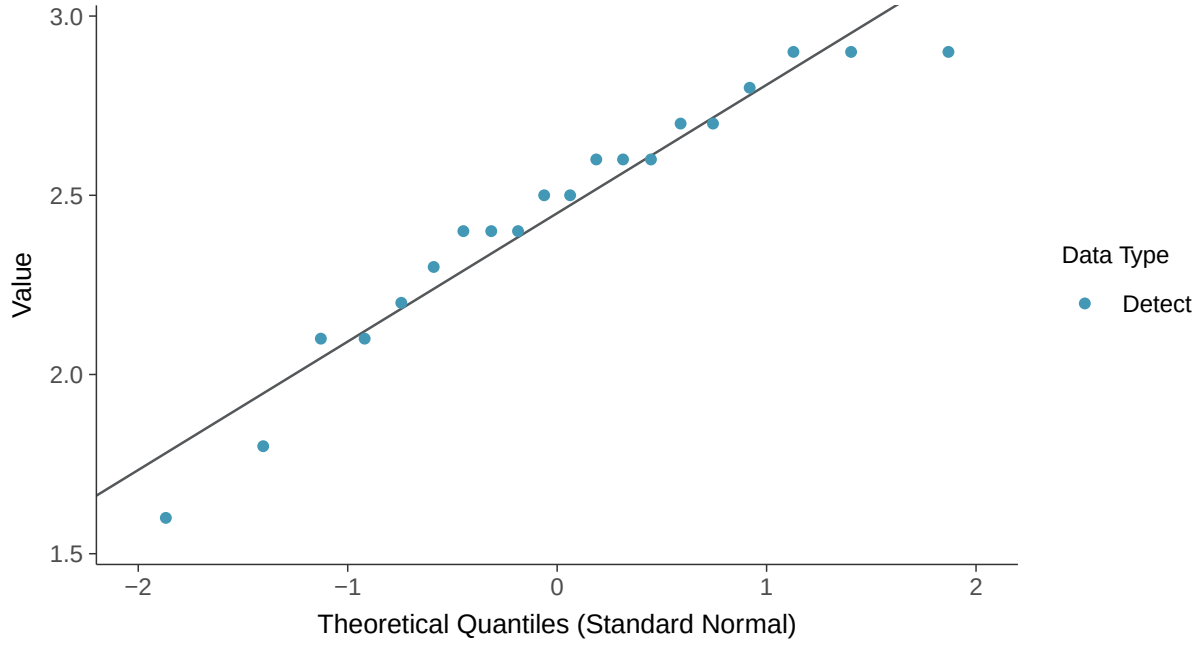
Boxplot by Season

Fluoride (App IV), MW-09 (mg/L)



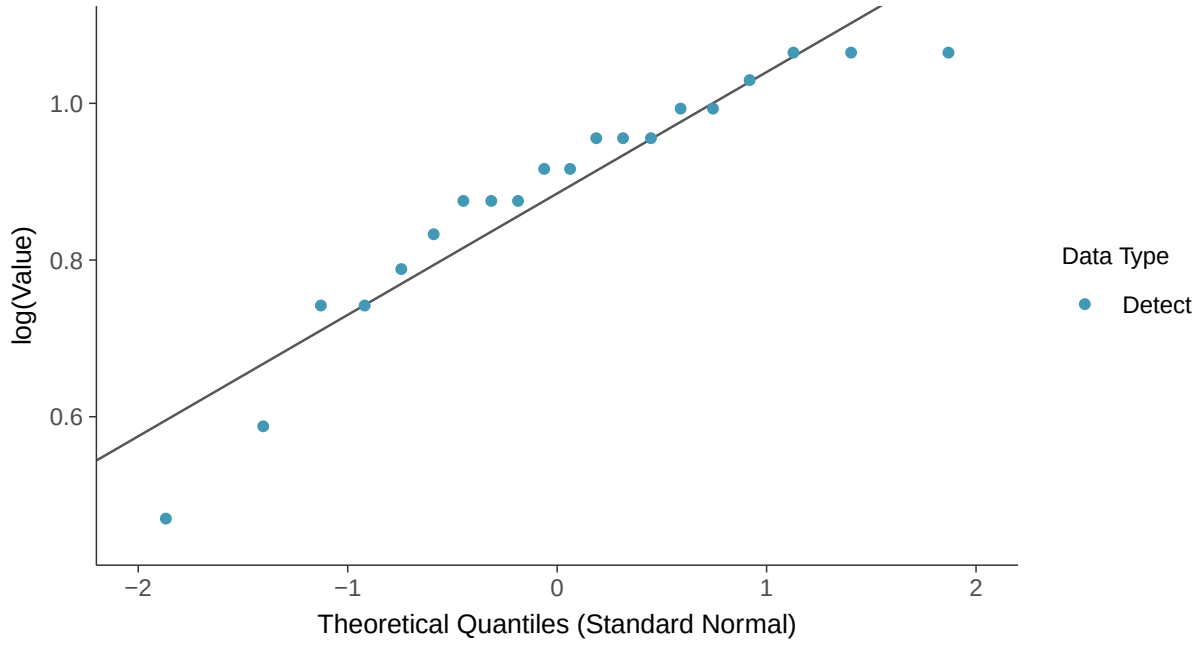
Normal Q-Q plot

Fluoride (App IV), MW-09 (mg/L)



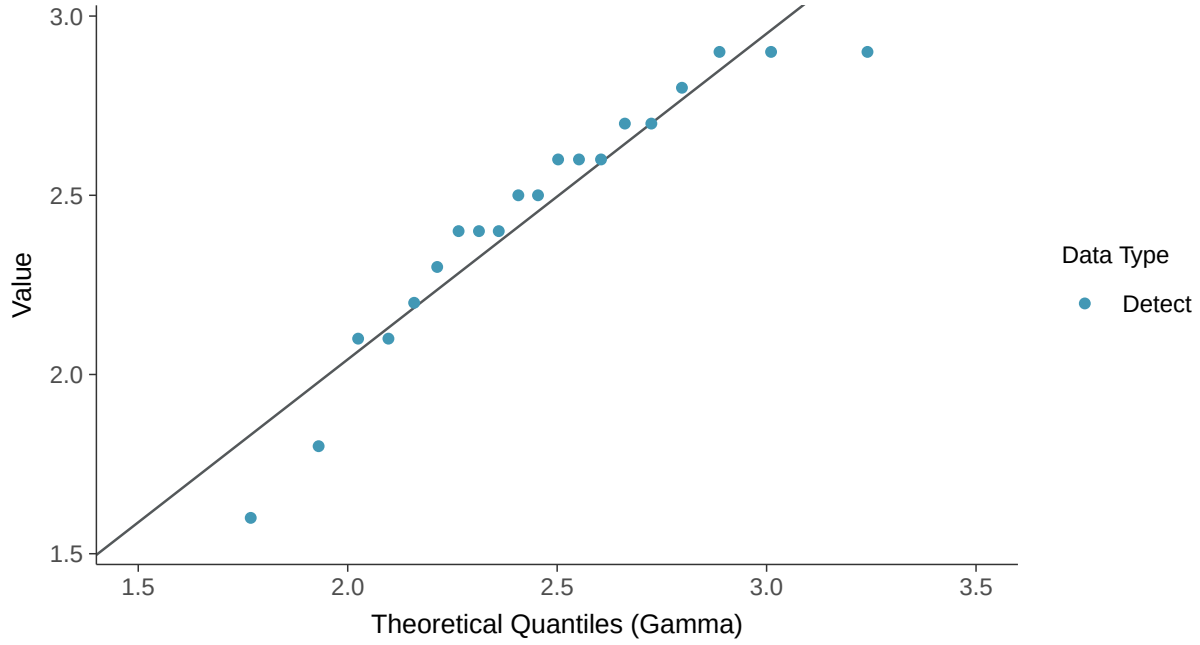
Lognormal Q-Q plot

Fluoride (App IV), MW-09 (mg/L)



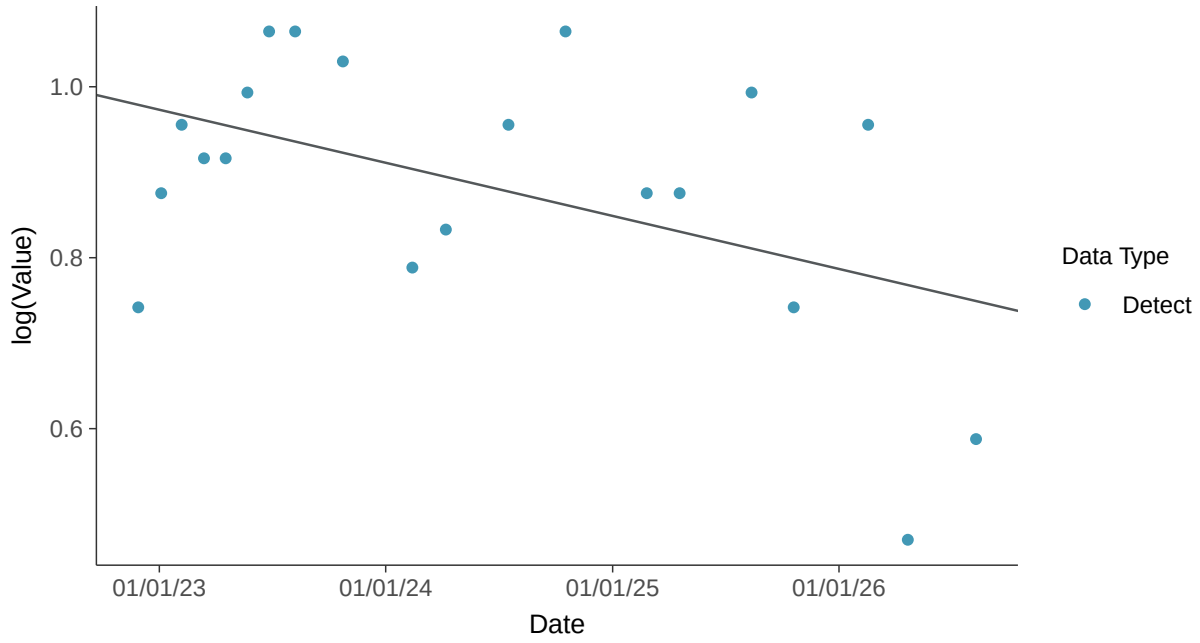
Gamma Q-Q plot

Fluoride (App IV), MW-09 (mg/L)



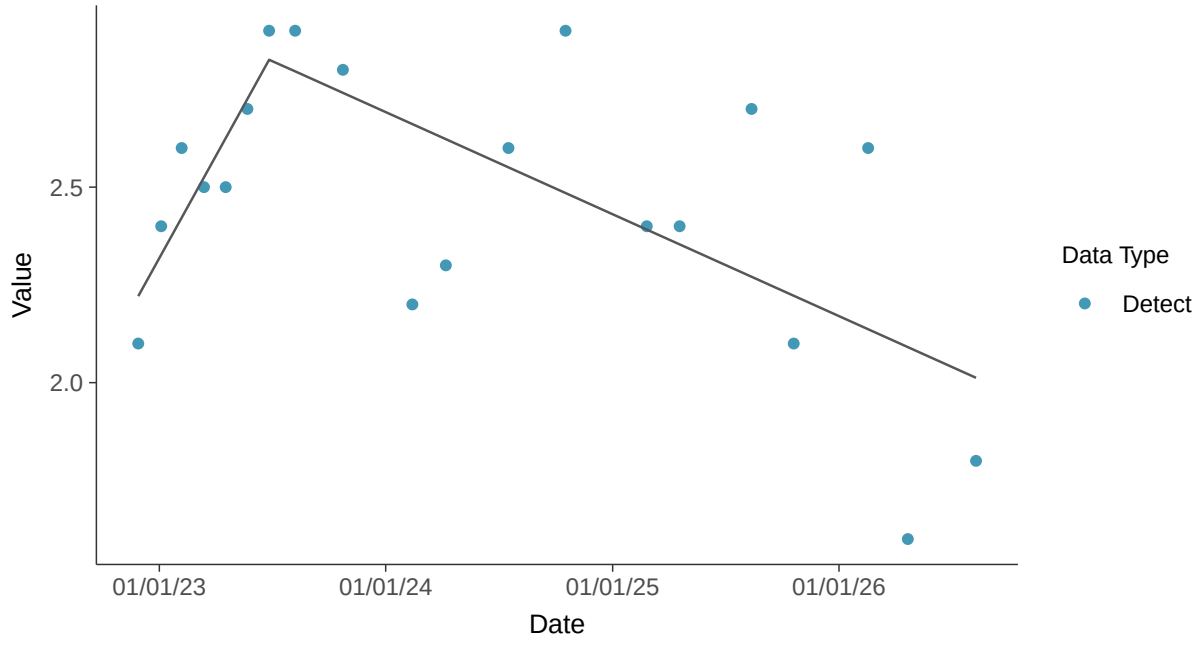
Trend Regression: Lognormal MLE

Fluoride (App IV), MW-09 (mg/L)



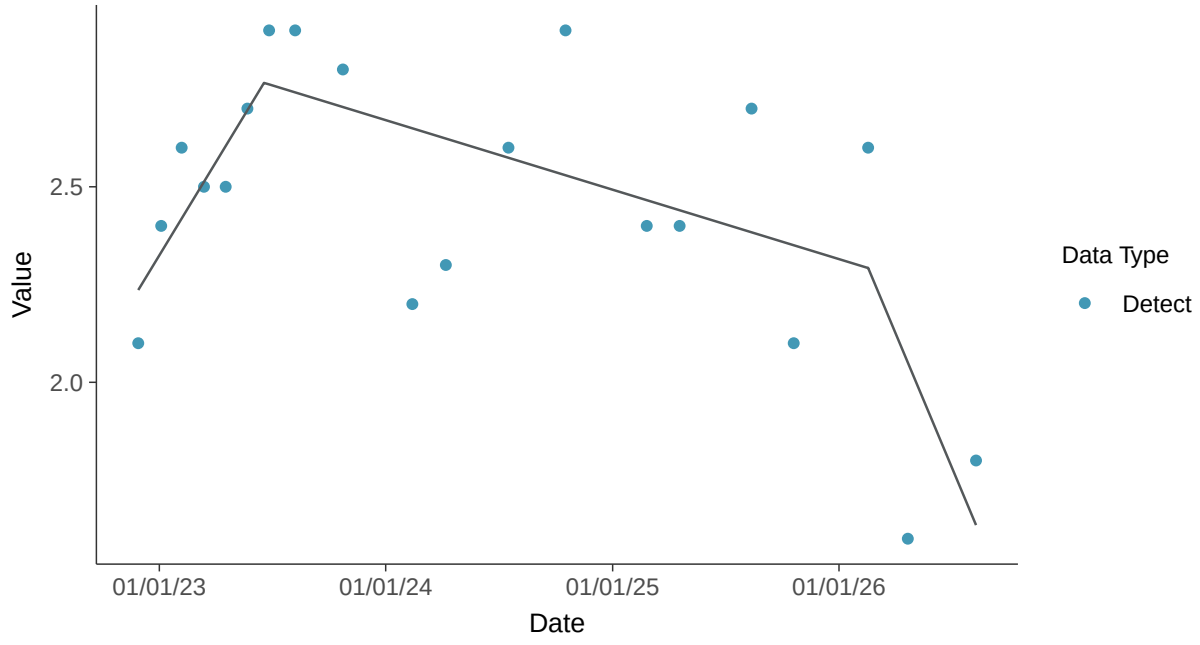
Trend Regression: Piecewise Linear-Linear

Fluoride (App IV), MW-09 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Fluoride (App IV), MW-09 (mg/L)

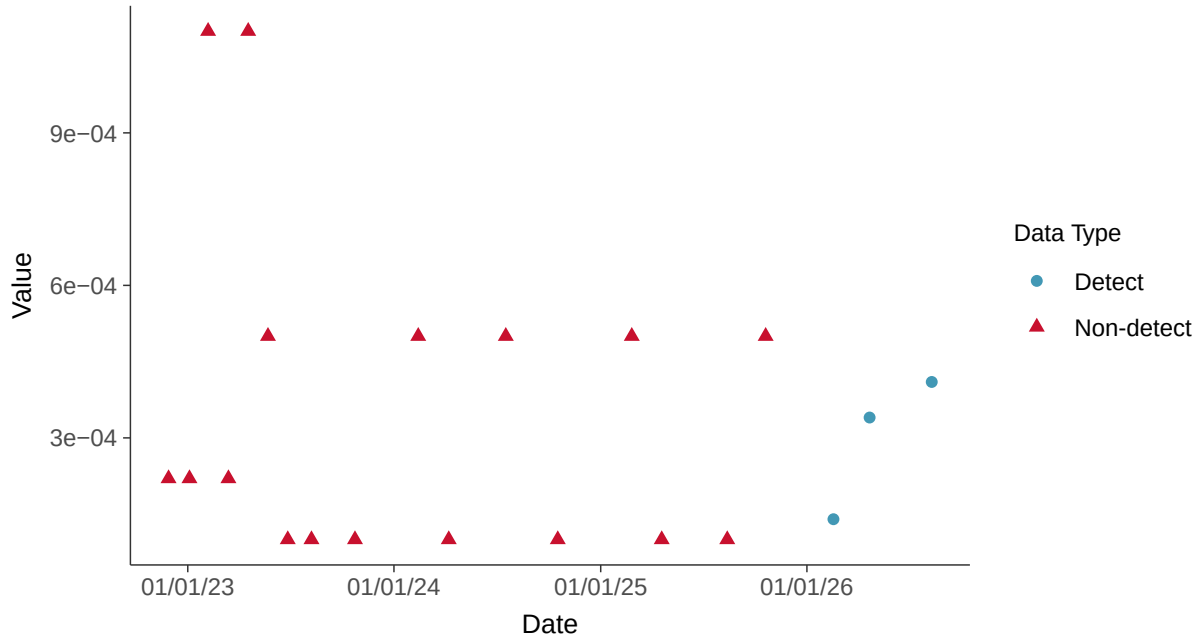


Appendix IV: Lead, MW-09

ID: 19_2_4_115

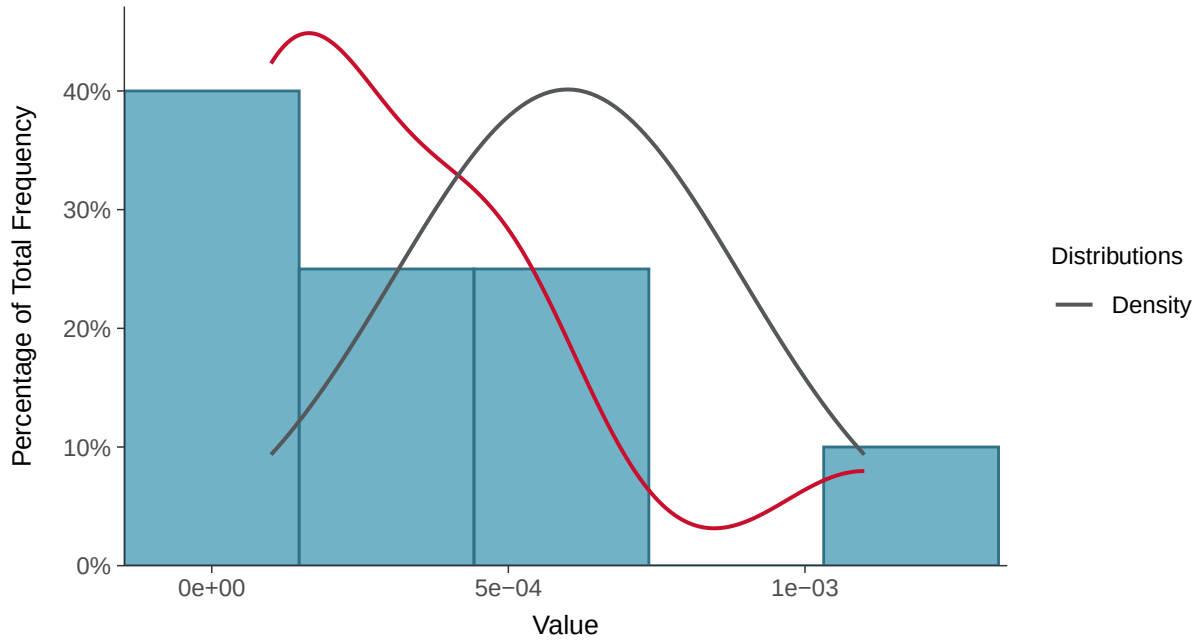
Scatter Plot

Lead, MW-09 (mg/L)



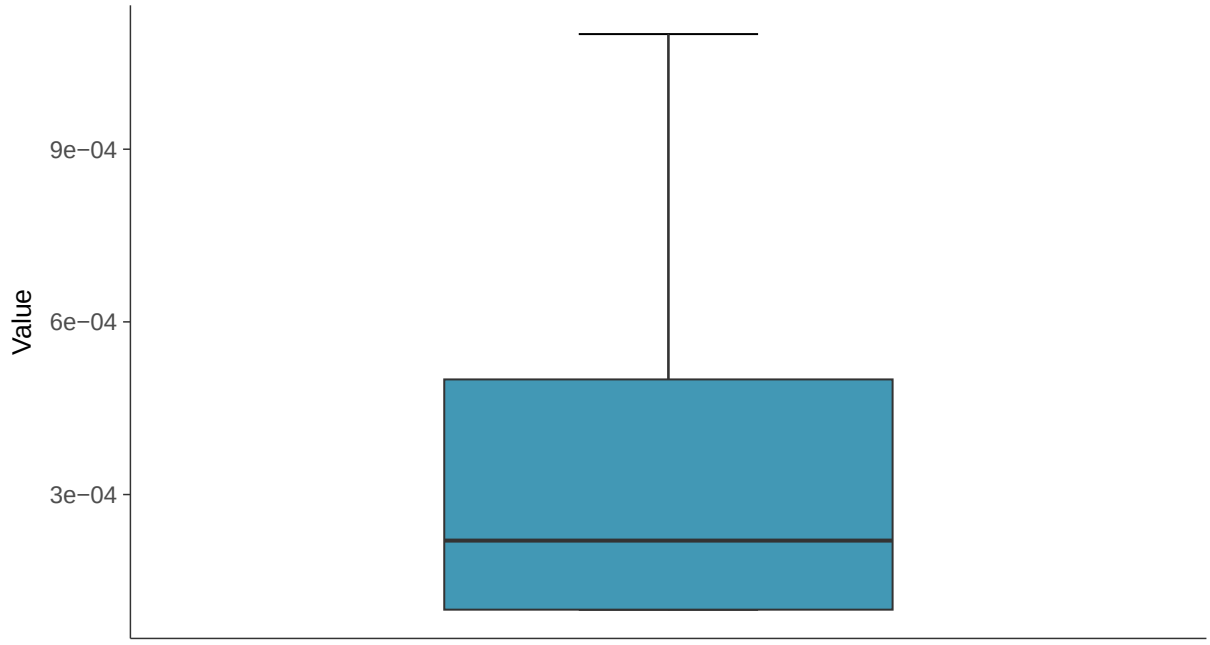
Histogram

Lead, MW-09 (mg/L)



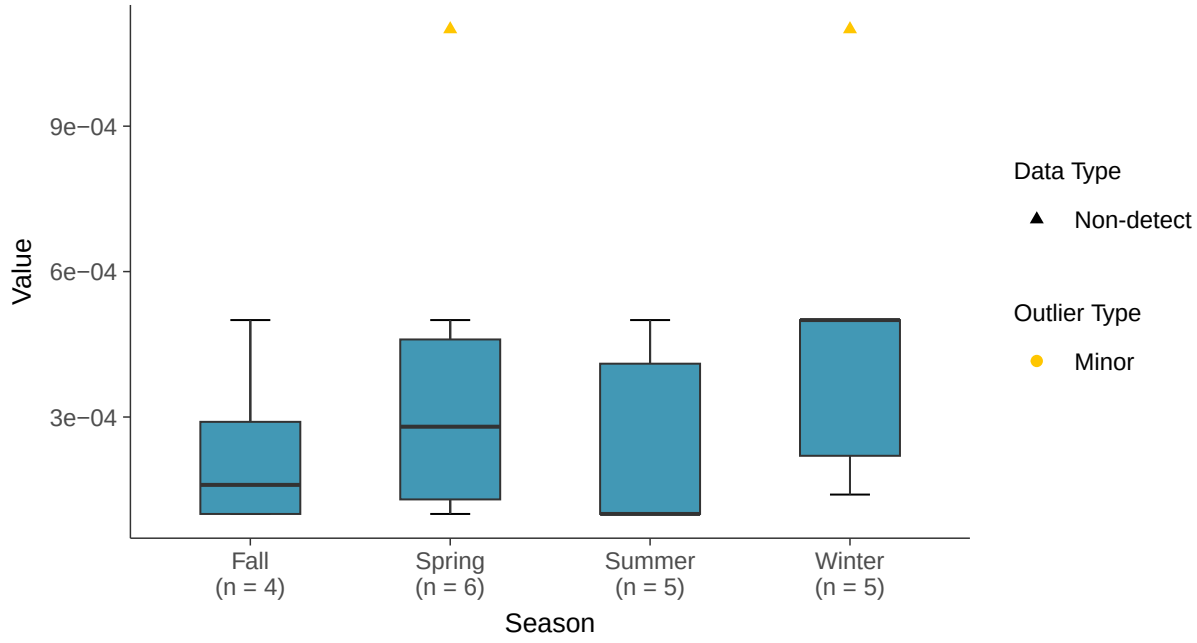
Boxplot

Lead, MW-09 (mg/L)



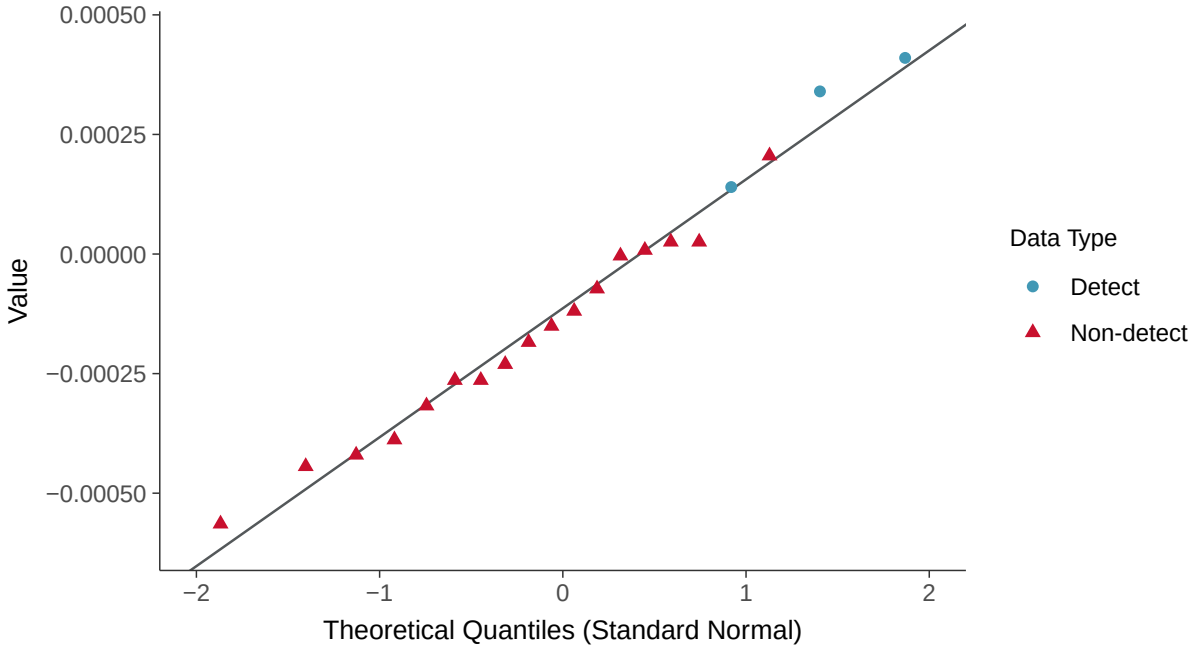
Boxplot by Season

Lead, MW-09 (mg/L)



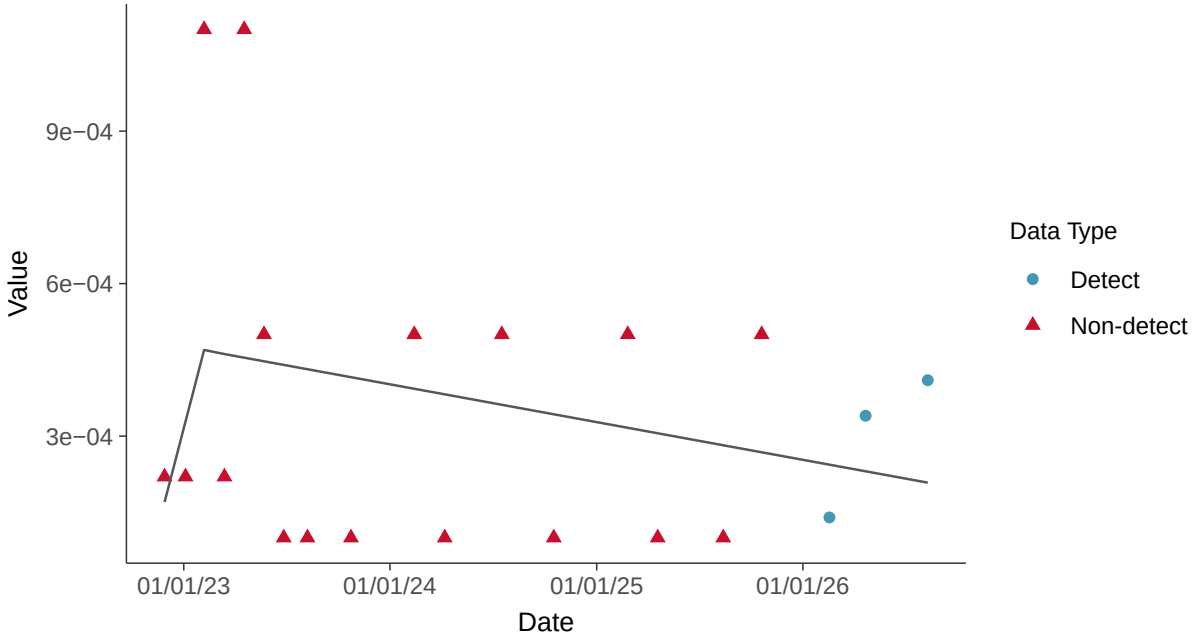
Normal Q-Q plot using ROS Imputed Estimates

Lead, MW-09 (mg/L)



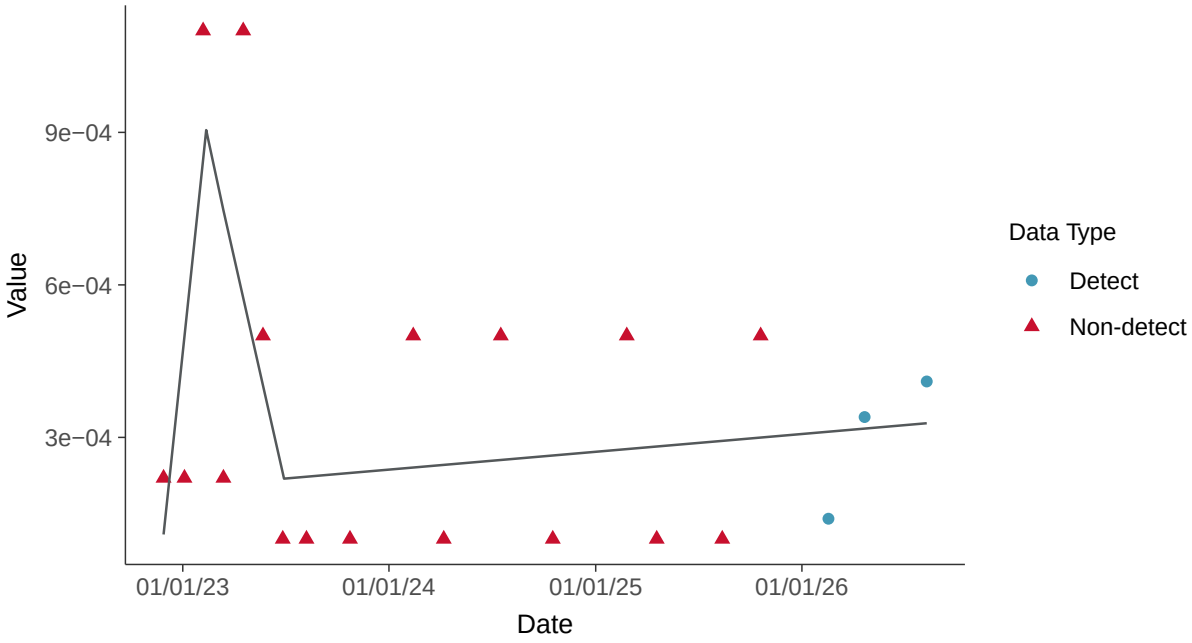
Trend Regression: Piecewise Linear-Linear

Lead, MW-09 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Lead, MW-09 (mg/L)

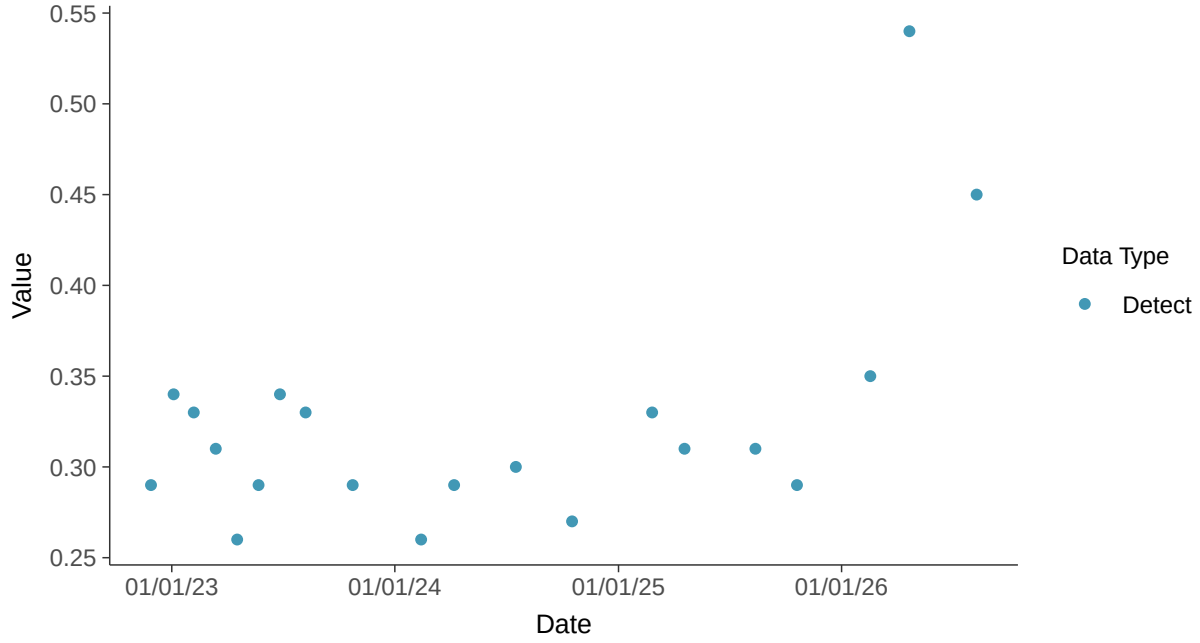


Appendix IV: Lithium, MW-09

ID: 19_2_4_116

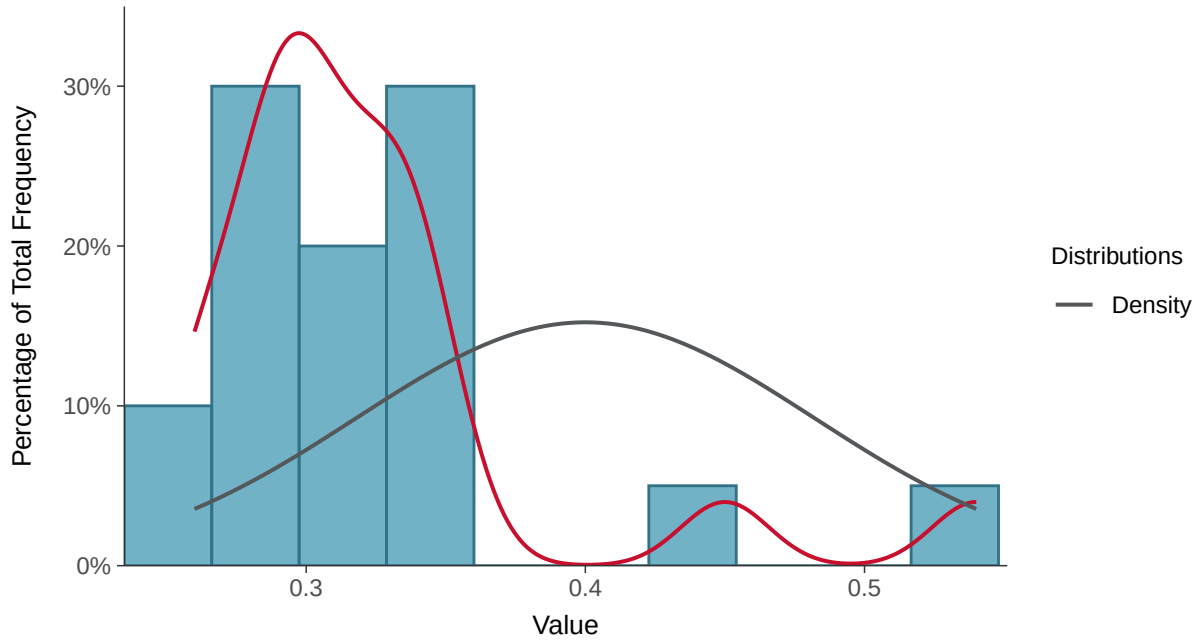
Scatter Plot

Lithium, MW-09 (mg/L)



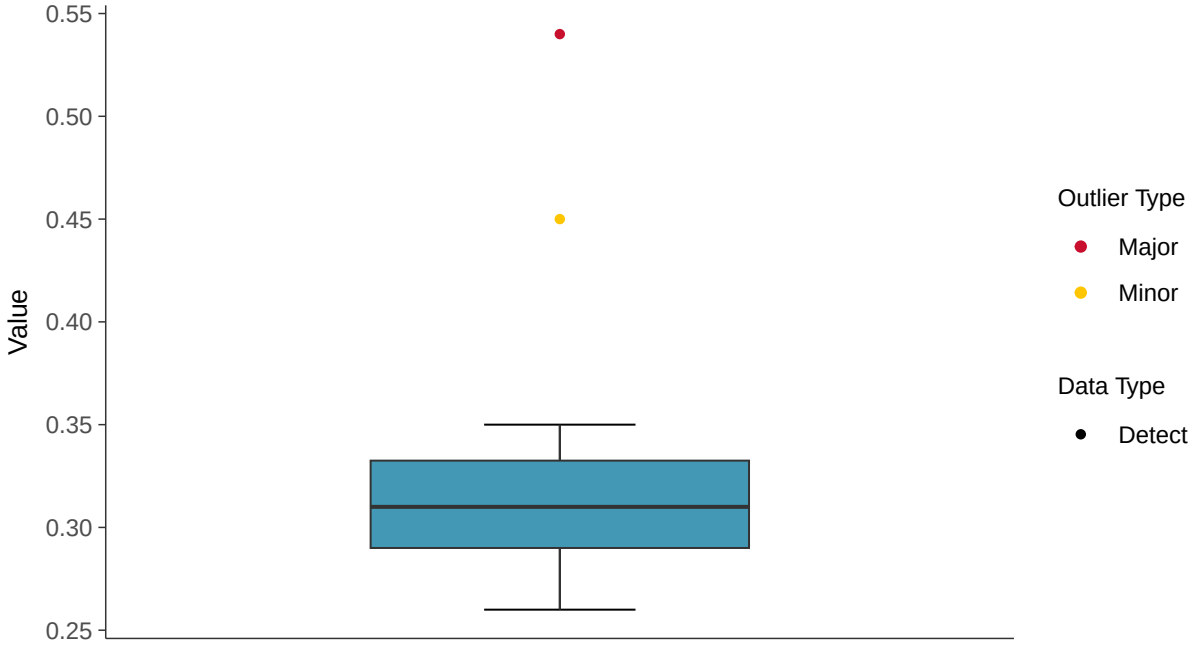
Histogram

Lithium, MW-09 (mg/L)



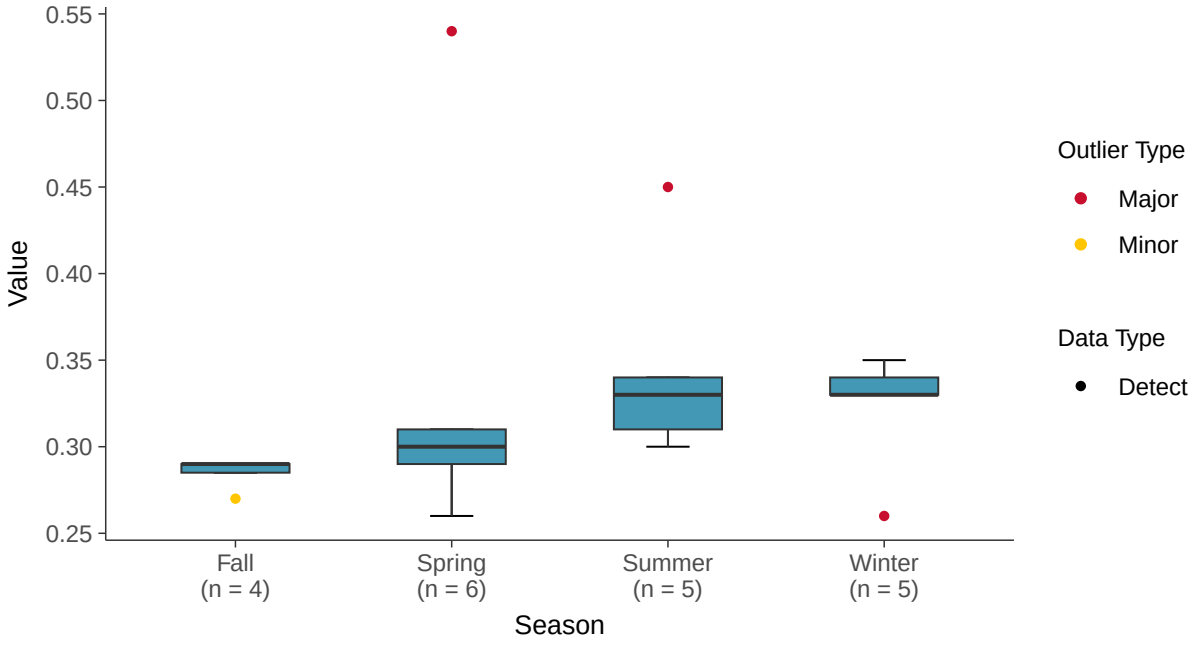
Boxplot

Lithium, MW-09 (mg/L)



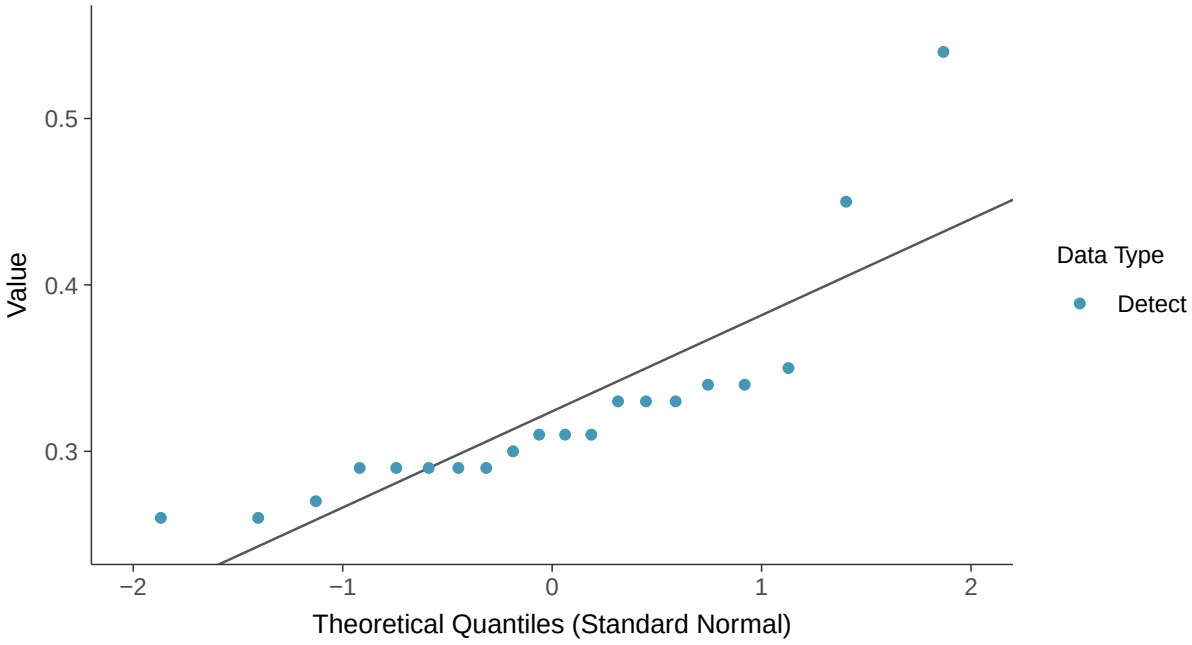
Boxplot by Season

Lithium, MW-09 (mg/L)



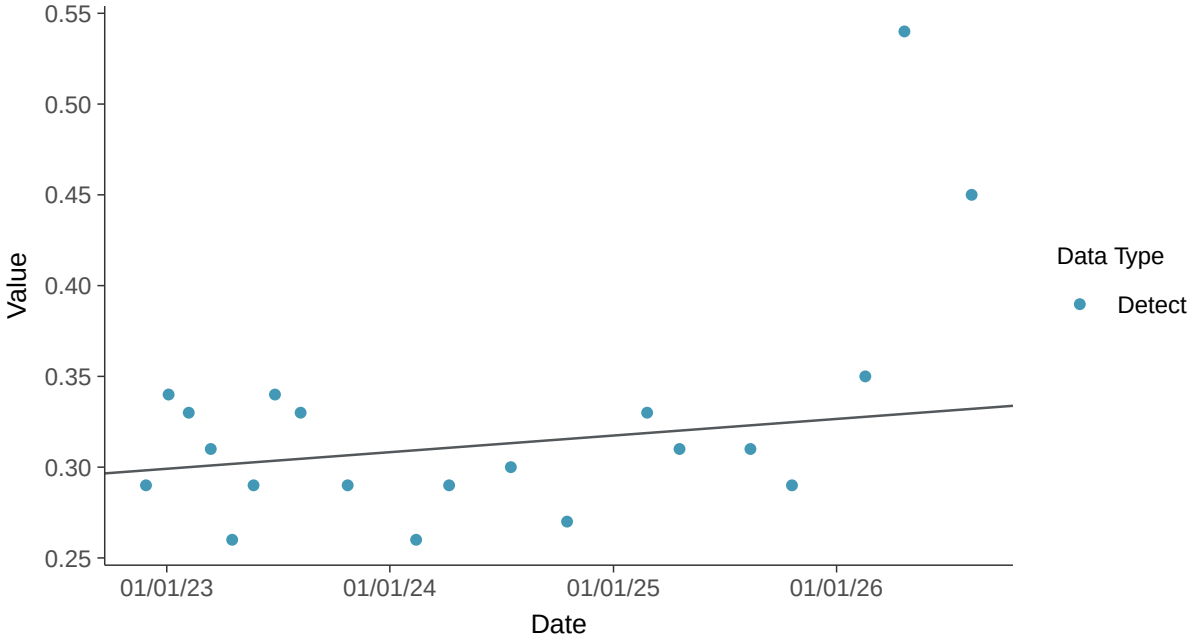
Normal Q-Q plot

Lithium, MW-09 (mg/L)



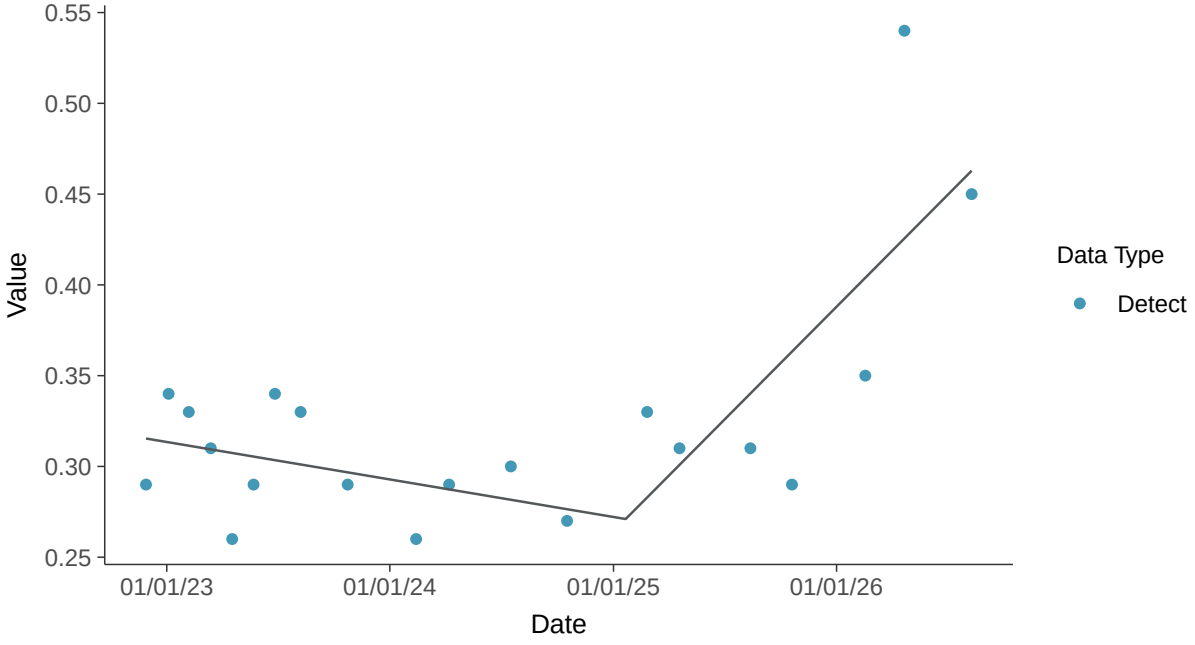
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Lithium, MW-09 (mg/L)



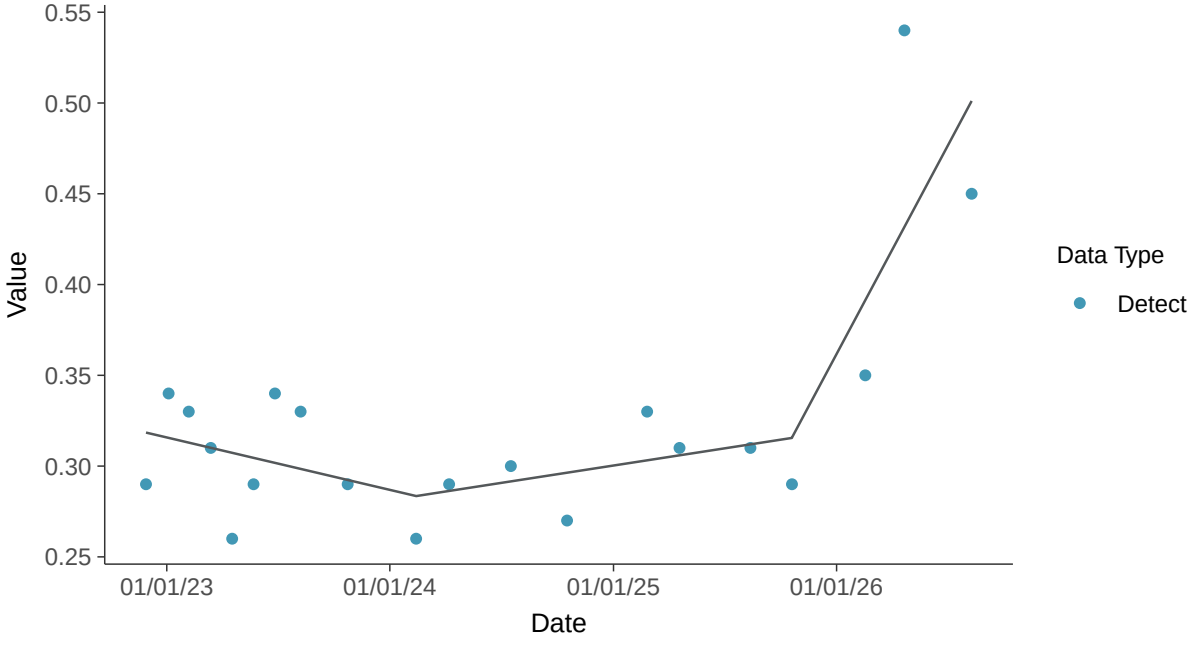
Trend Regression: Piecewise Linear-Linear

Lithium, MW-09 (mg/L)



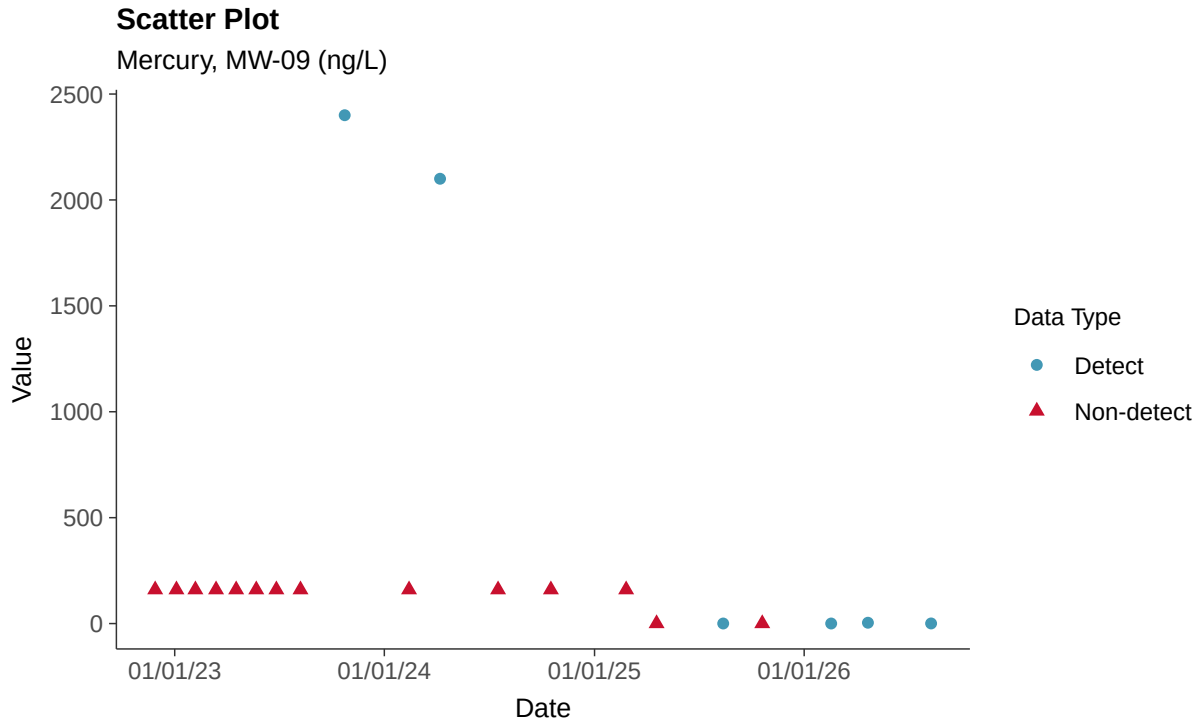
Trend Regression: Piecewise Linear-Linear-Linear

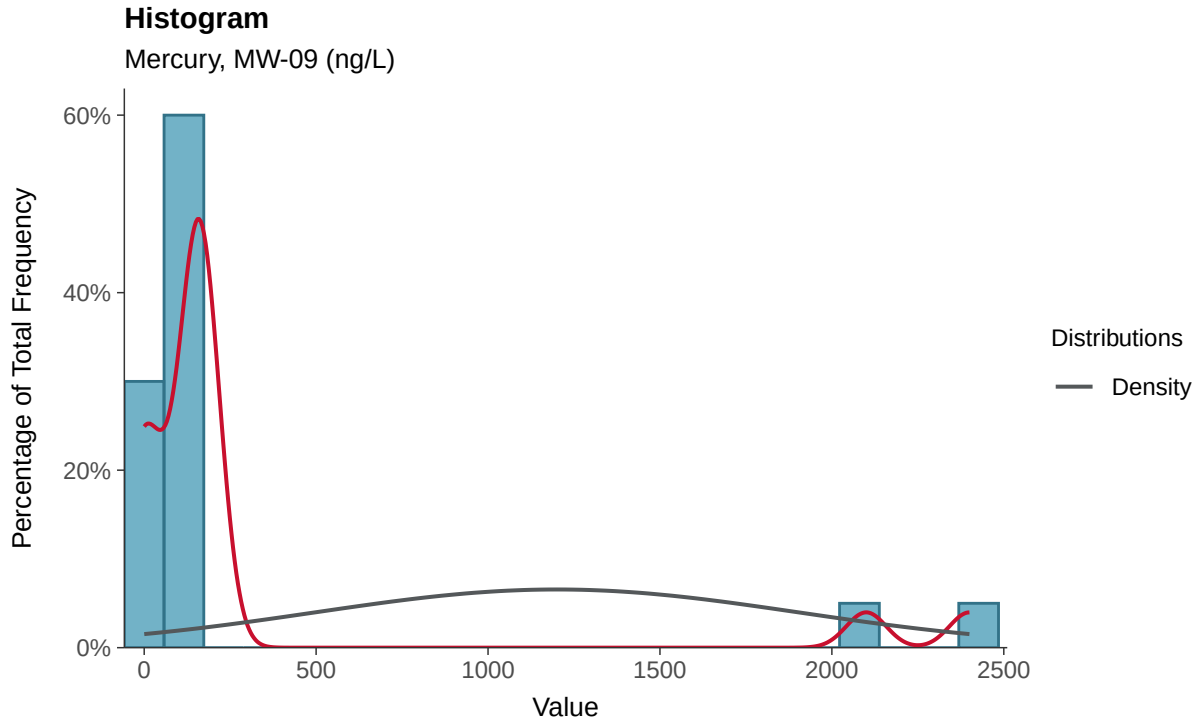
Lithium, MW-09 (mg/L)



Appendix IV: Mercury, MW-09

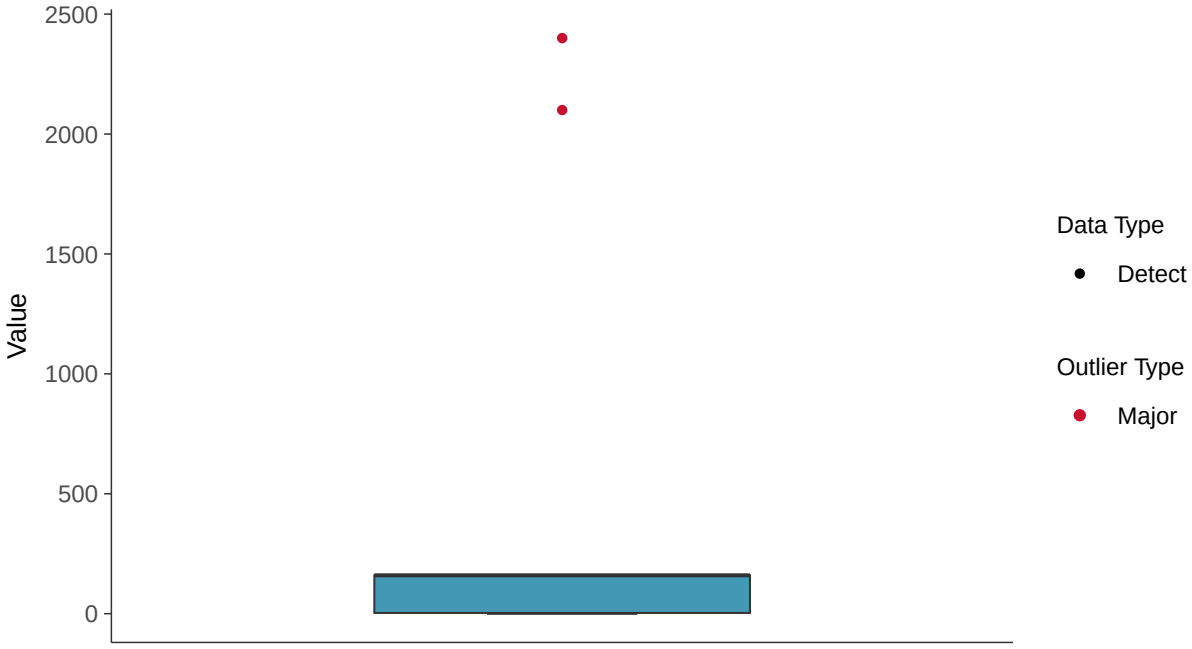
ID: 19_2_4_117





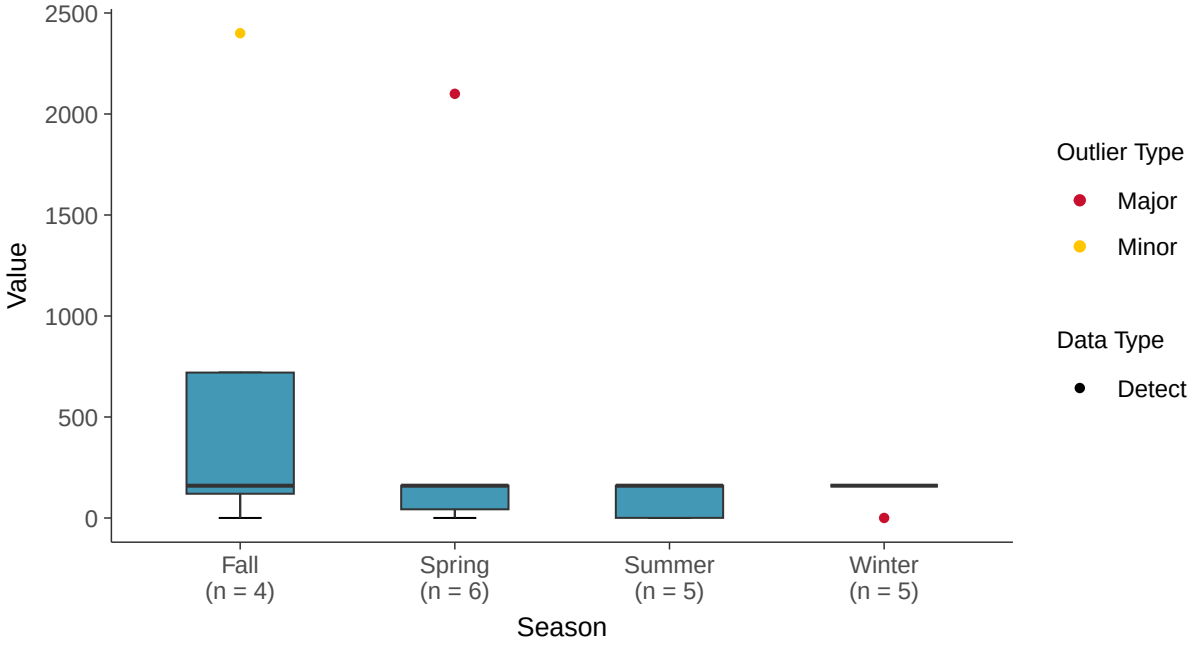
Boxplot

Mercury, MW-09 (ng/L)



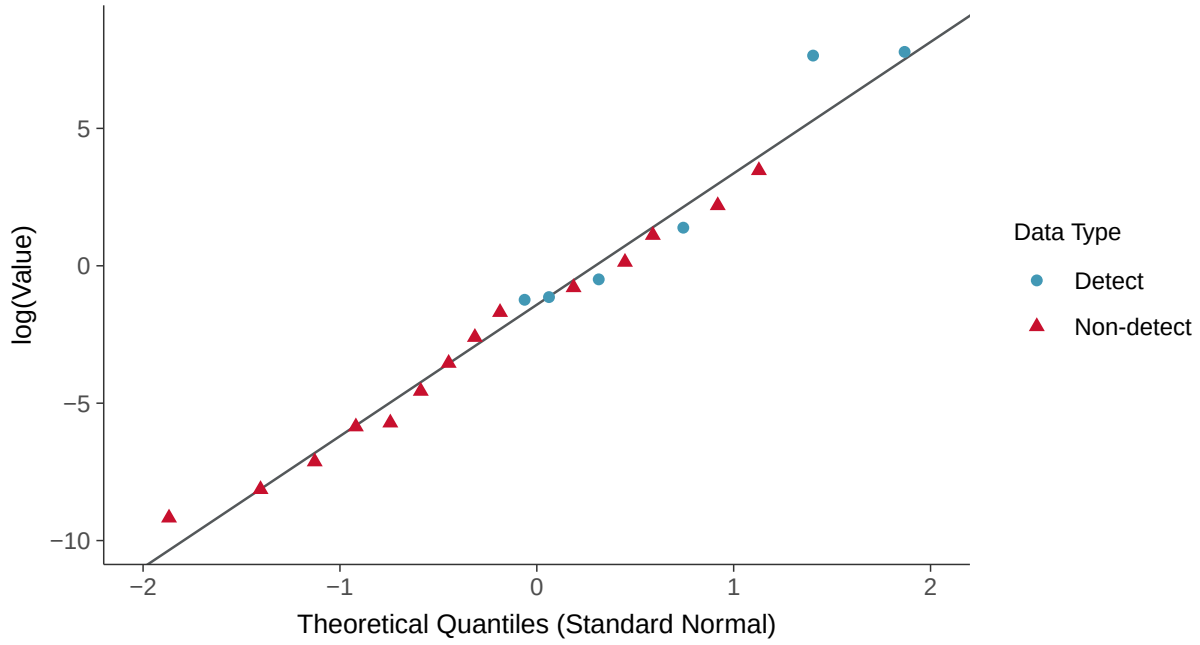
Boxplot by Season

Mercury, MW-09 (ng/L)



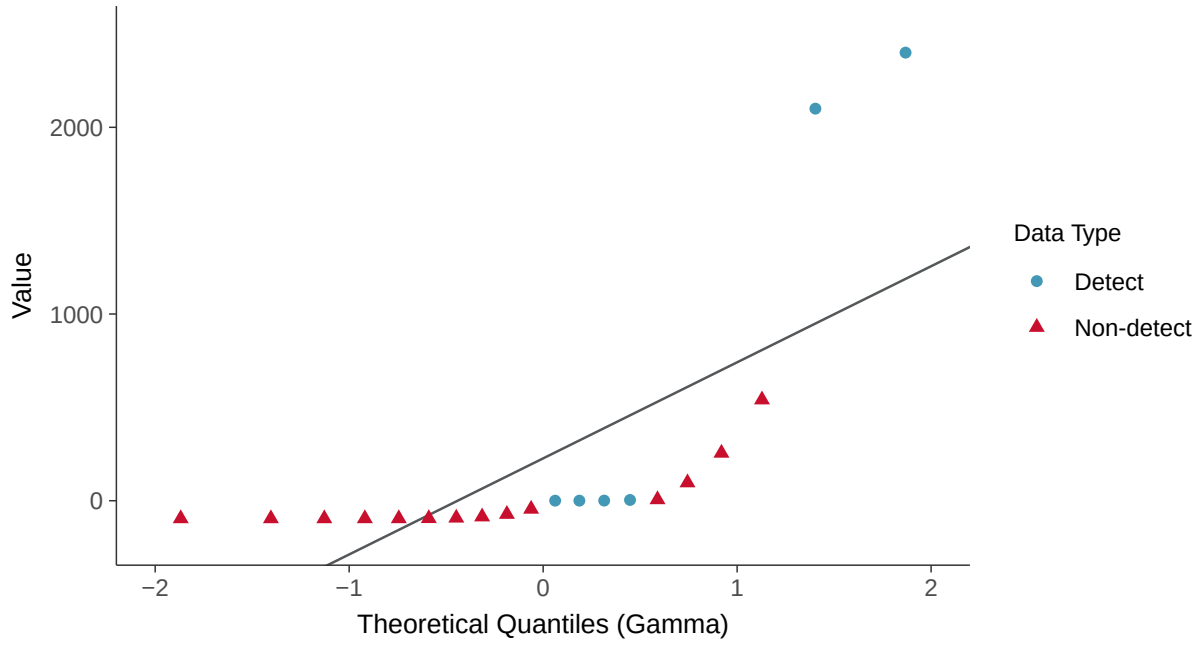
Lognormal Q-Q plot using ROS Imputed Estimates

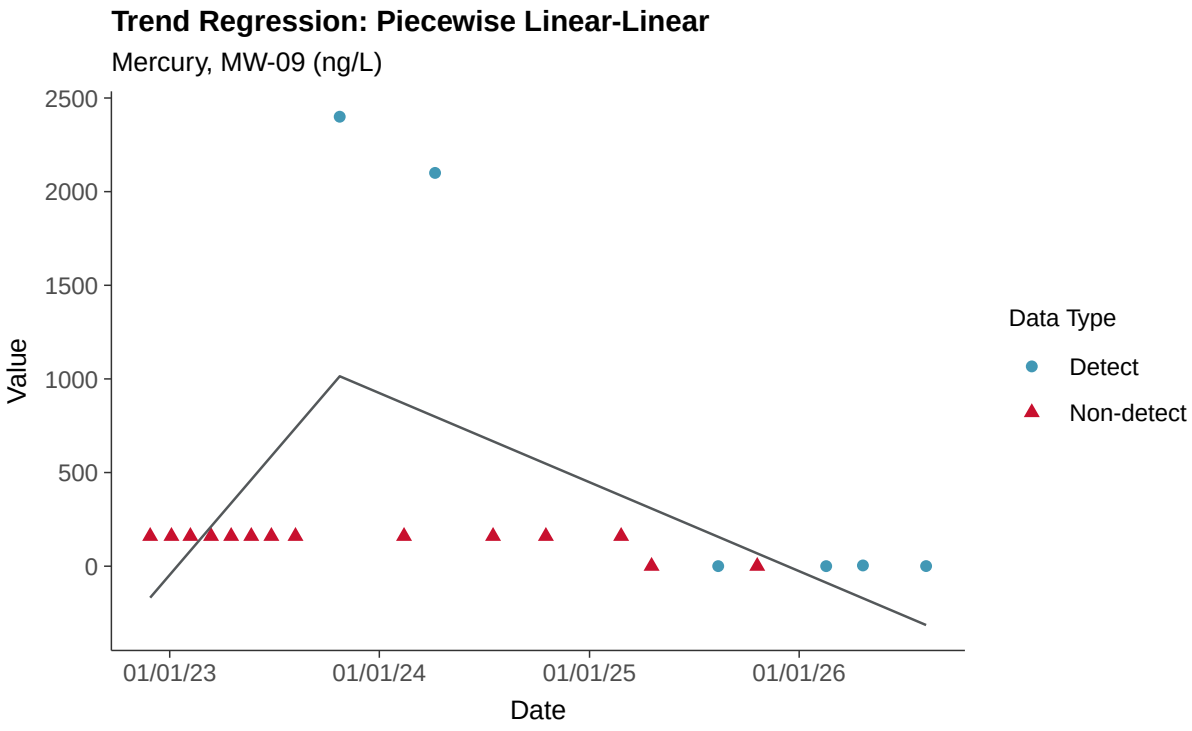
Mercury, MW-09 (ng/L)



Gamma Q-Q plot using ROS Imputed Estimates

Mercury, MW-09 (ng/L)



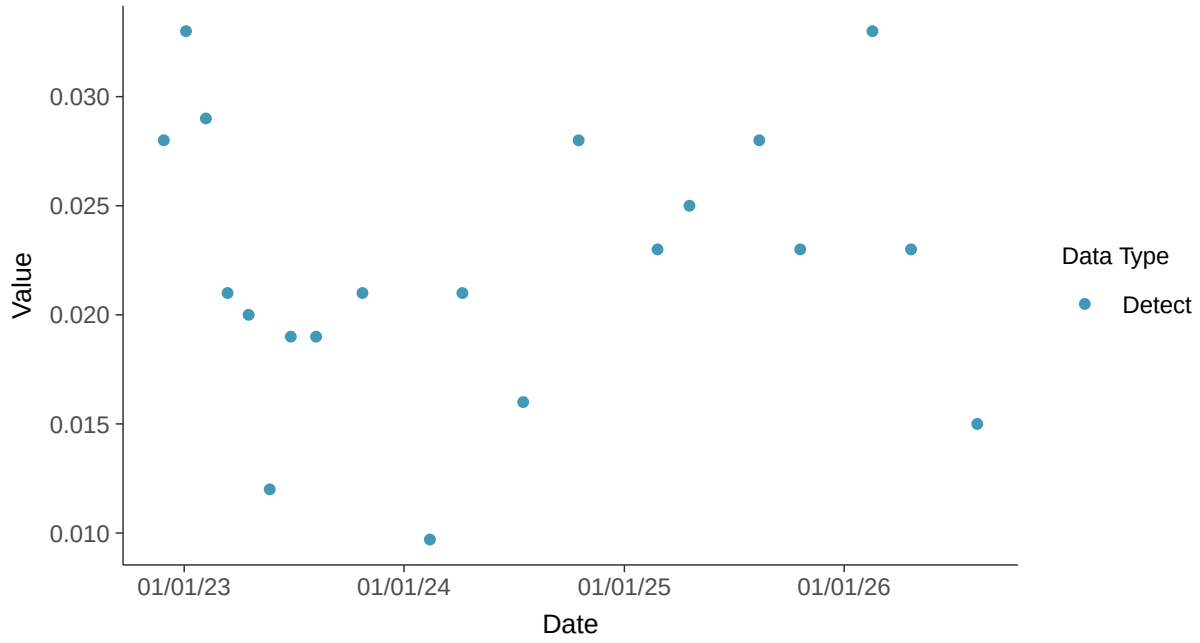

Trend Regression: Piecewise Linear-Linear
Mercury, MW-09 (ng/L)
Value
2500
2000
1500
1000
500
0
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect
Non-detect

Appendix IV: Molybdenum, MW-09

ID: 19_2_4_118

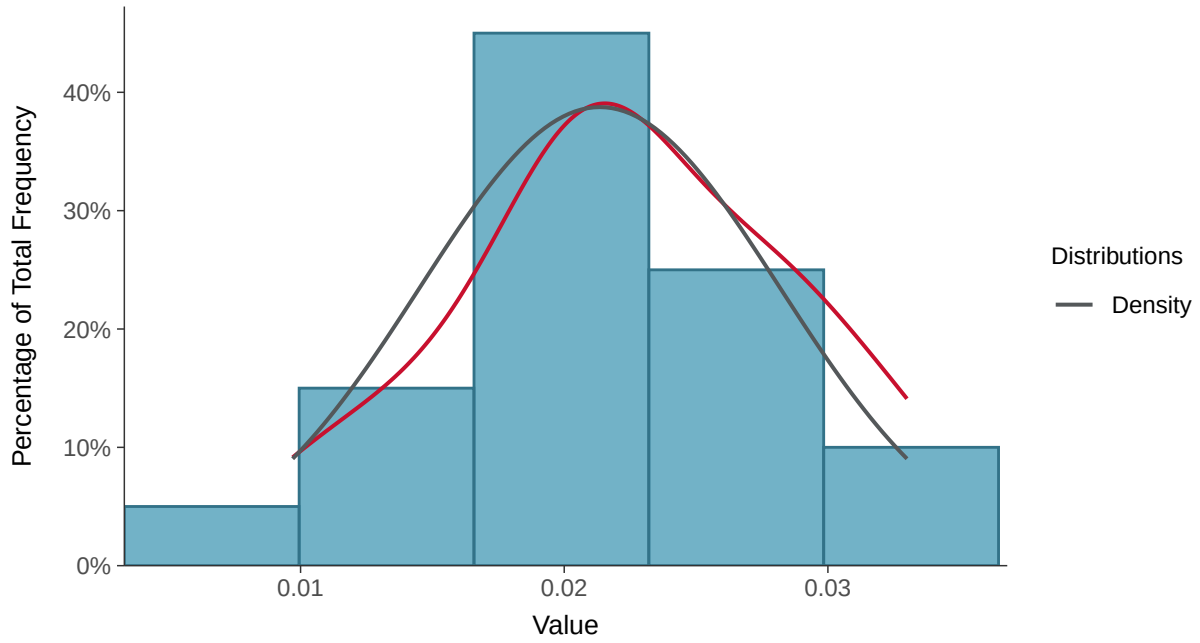
Scatter Plot

Molybdenum, MW-09 (mg/L)



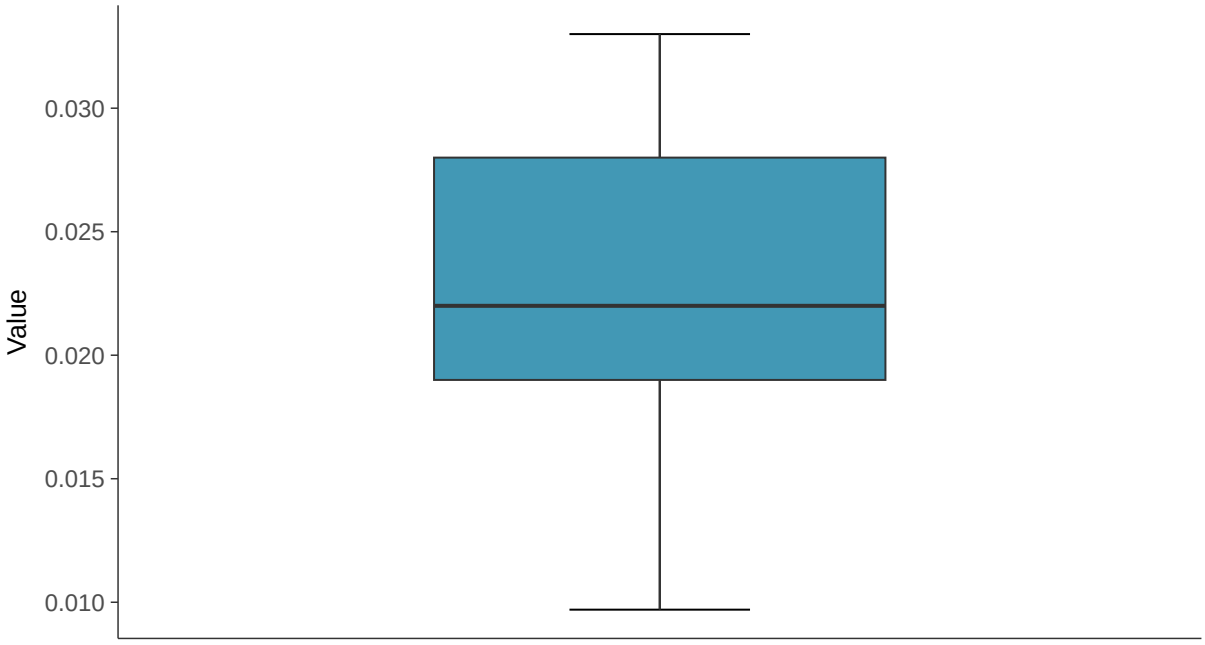
Histogram

Molybdenum, MW-09 (mg/L)



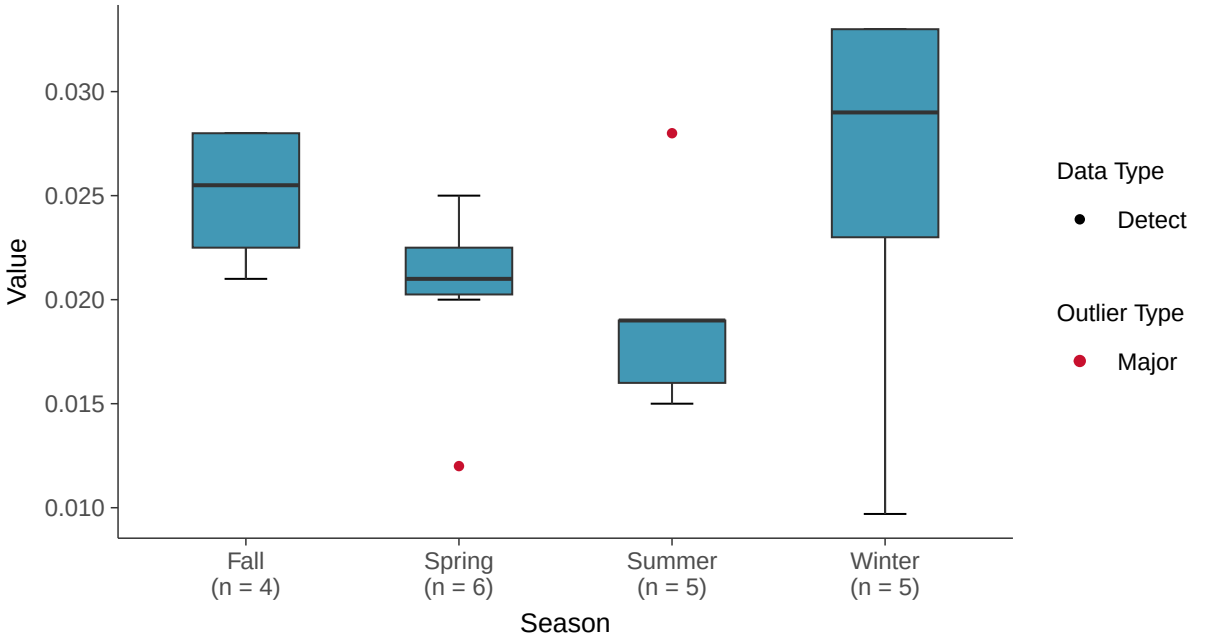
Boxplot

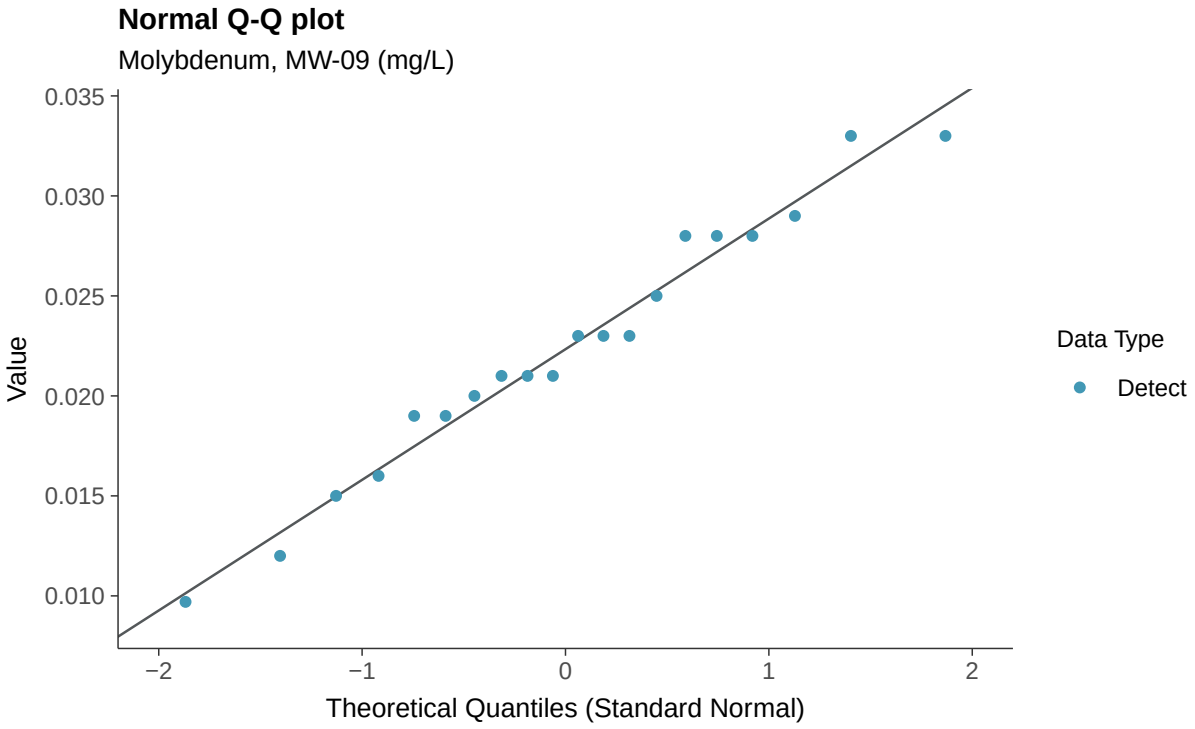
Molybdenum, MW-09 (mg/L)

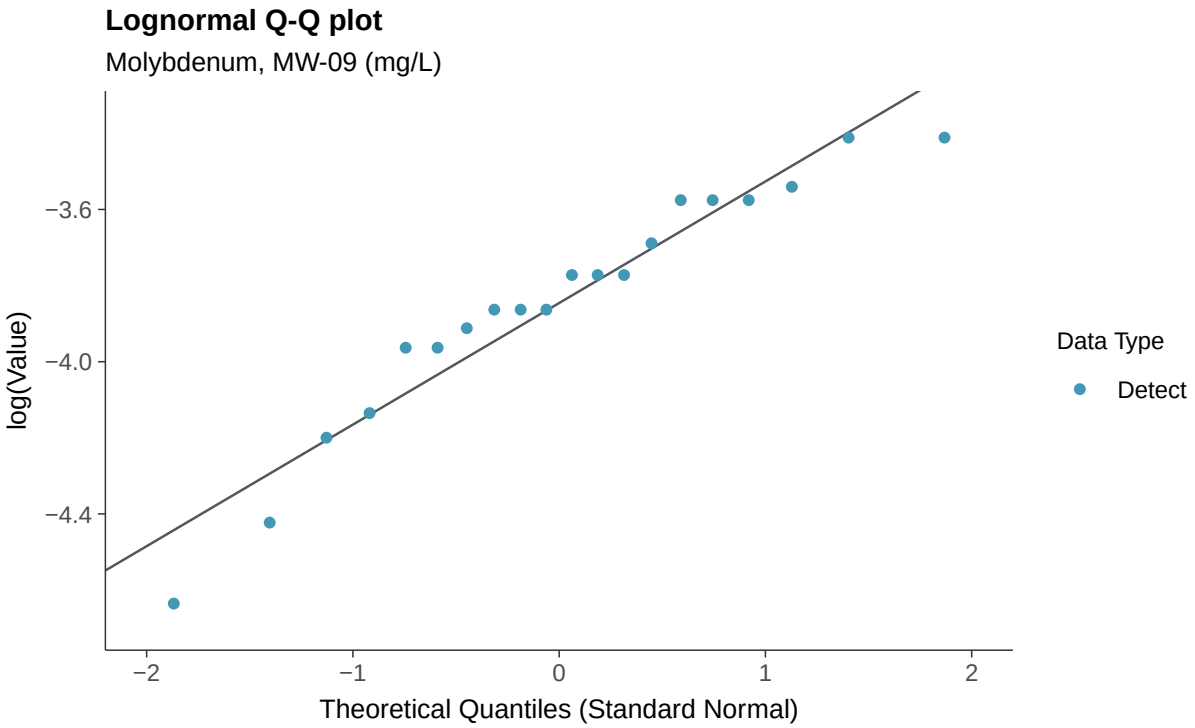


Boxplot by Season

Molybdenum, MW-09 (mg/L)

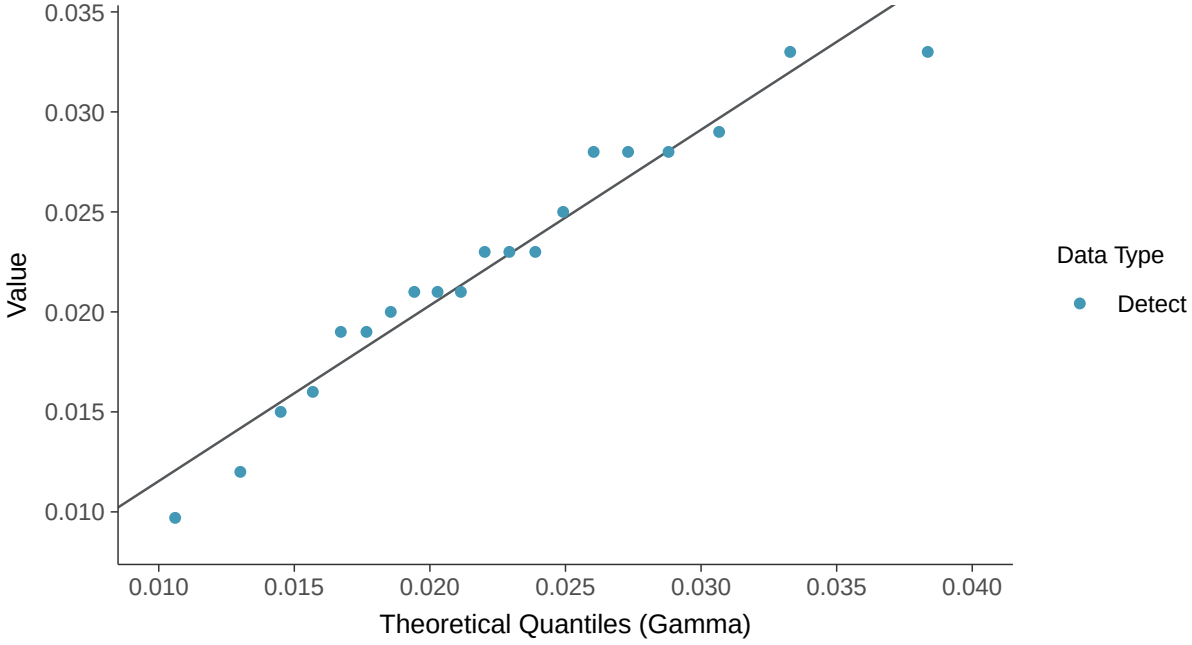



Normal Q-Q plot
Molybdenum, MW-09 (mg/L)
Value
0.035
0.030
0.025
0.020
0.015
0.010
−2
−1
0
1
2
Theoretical Quantiles (Standard Normal)
Data Type
Detect


Lognormal Q-Q plot
Molybdenum, MW-09 (mg/L)
log(Value)
−3.6
−4.0
−4.4
−2
−1
0
1
2
Theoretical Quantiles (Standard Normal)
Data Type
Detect

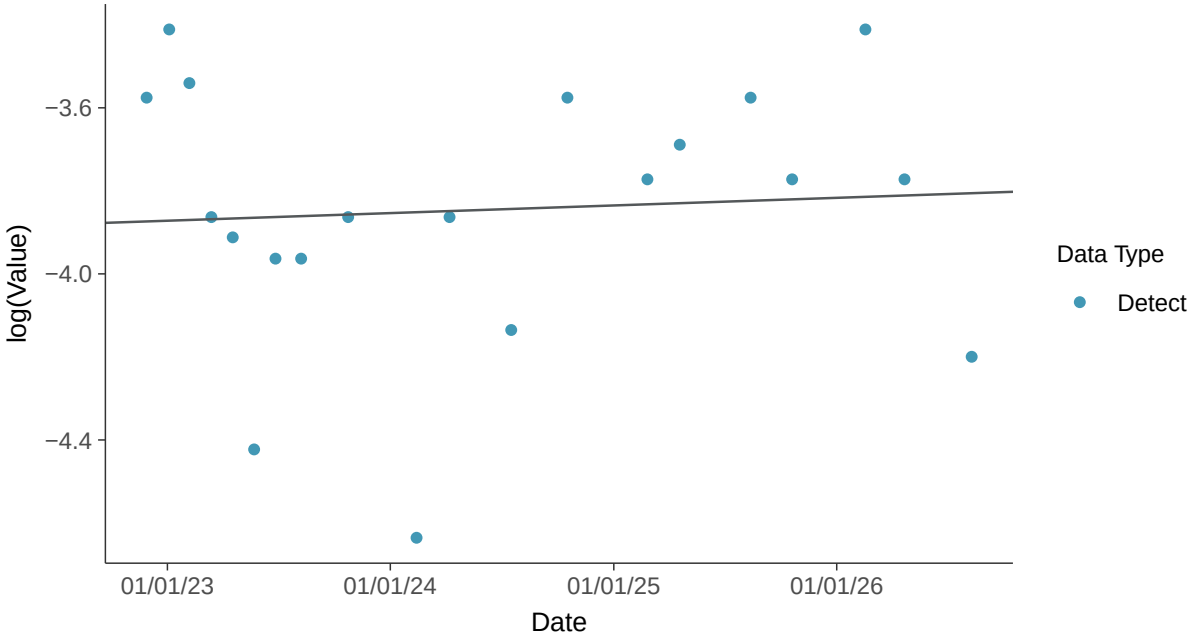
Gamma Q-Q plot

Molybdenum, MW-09 (mg/L)



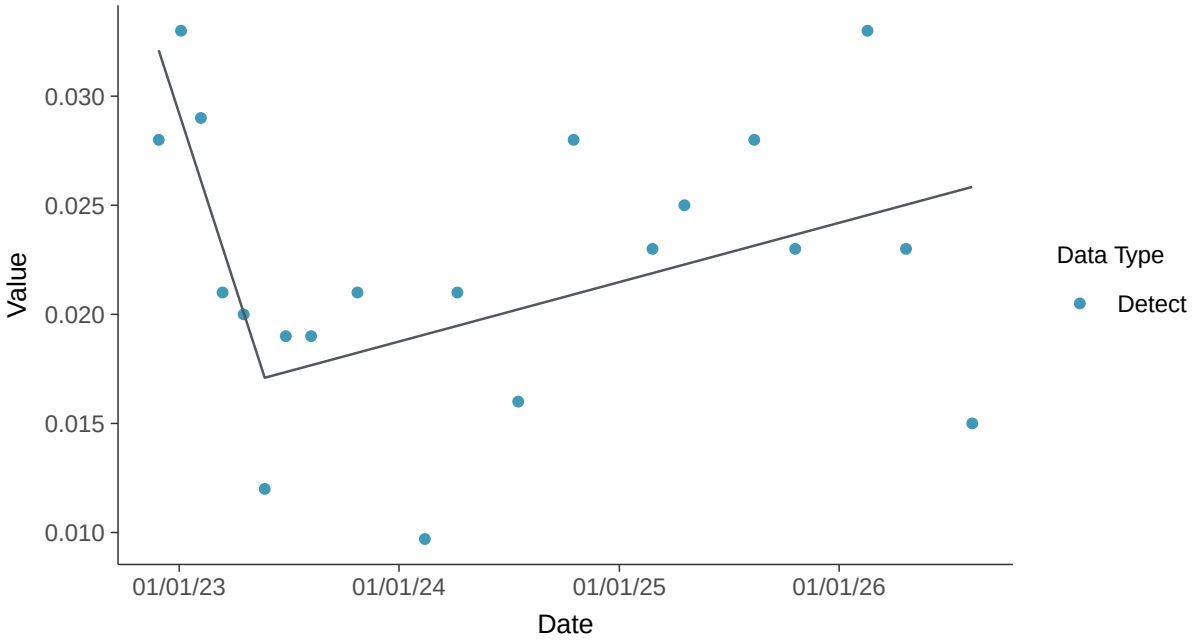
Trend Regression: Lognormal MLE

Molybdenum, MW-09 (mg/L)



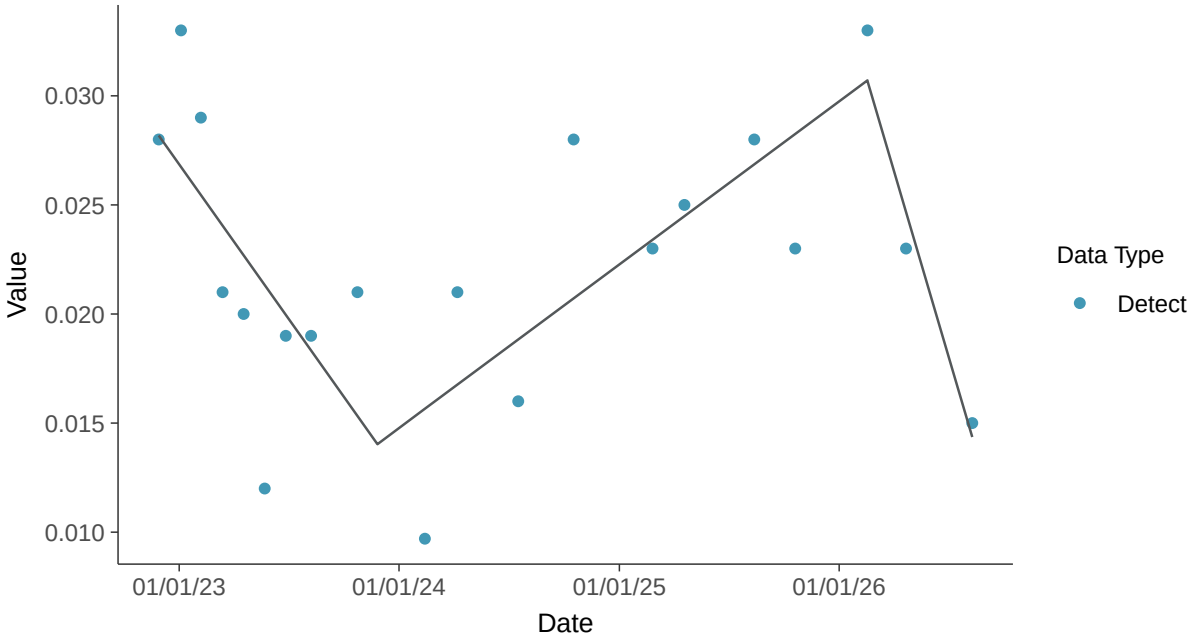
Trend Regression: Piecewise Linear-Linear

Molybdenum, MW-09 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Molybdenum, MW-09 (mg/L)

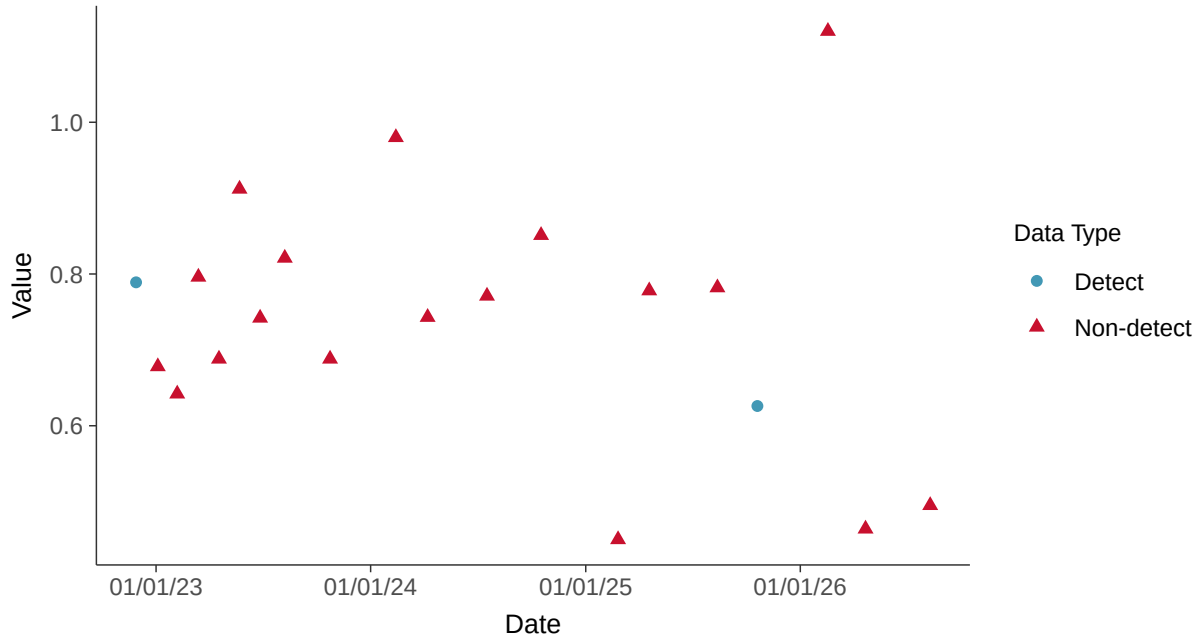


Appendix IV: Radium 226 and 228, MW-09

ID: 19_2_4_121

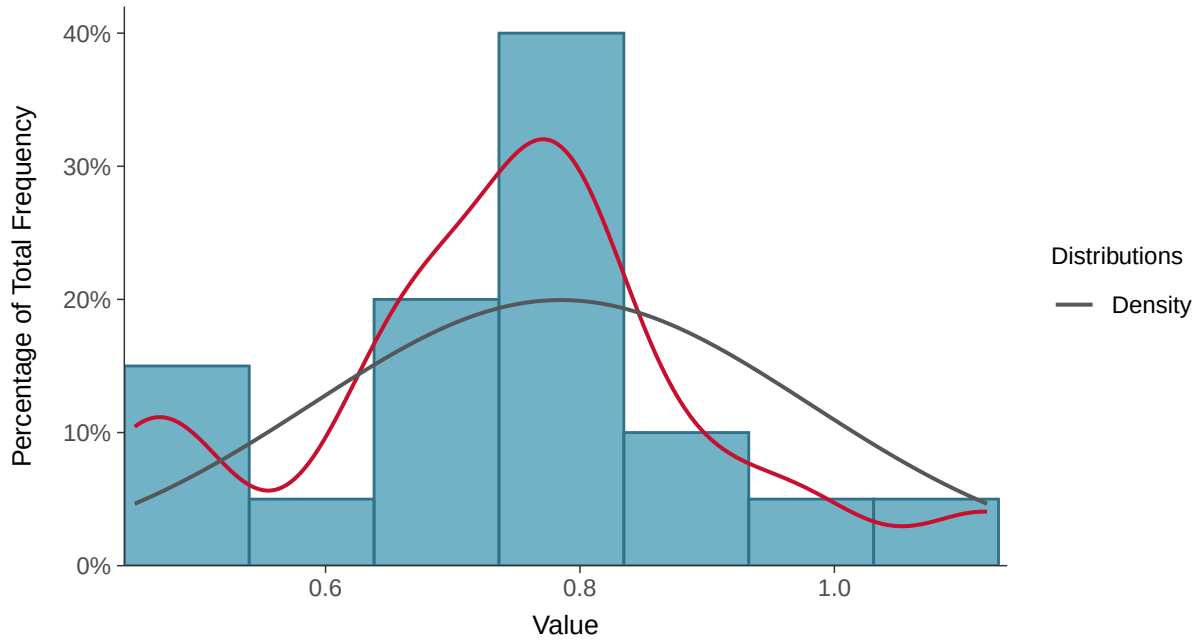
Scatter Plot

Radium 226 and 228, MW-09 (pCi/L)



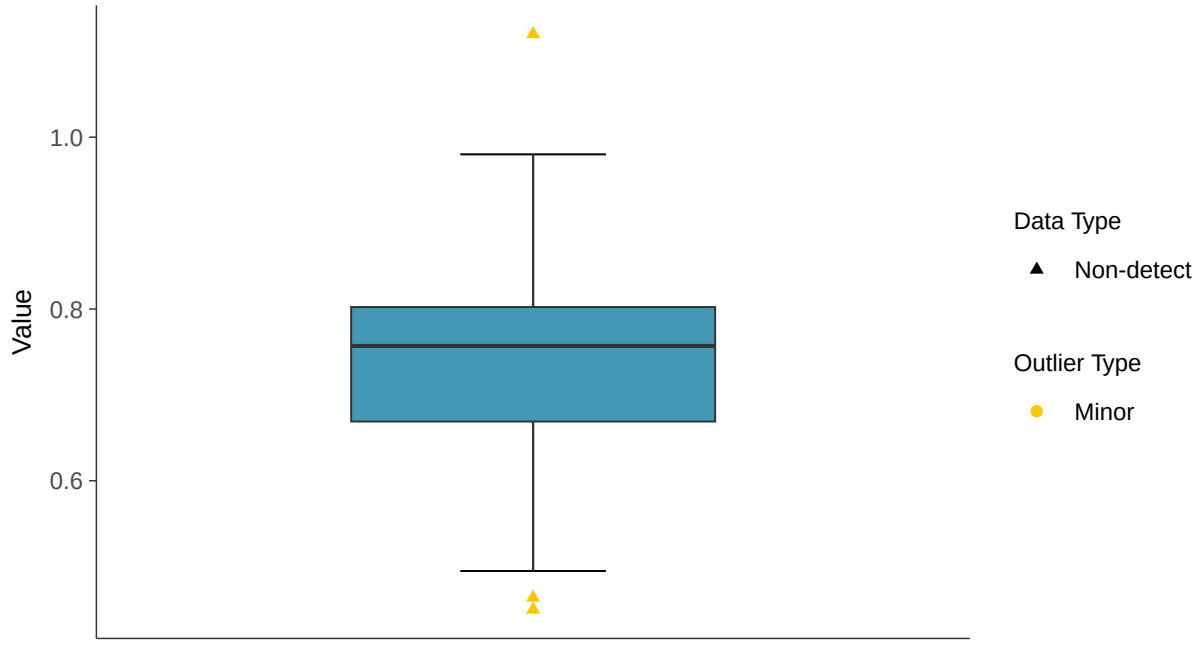
Histogram

Radium 226 and 228, MW-09 (pCi/L)



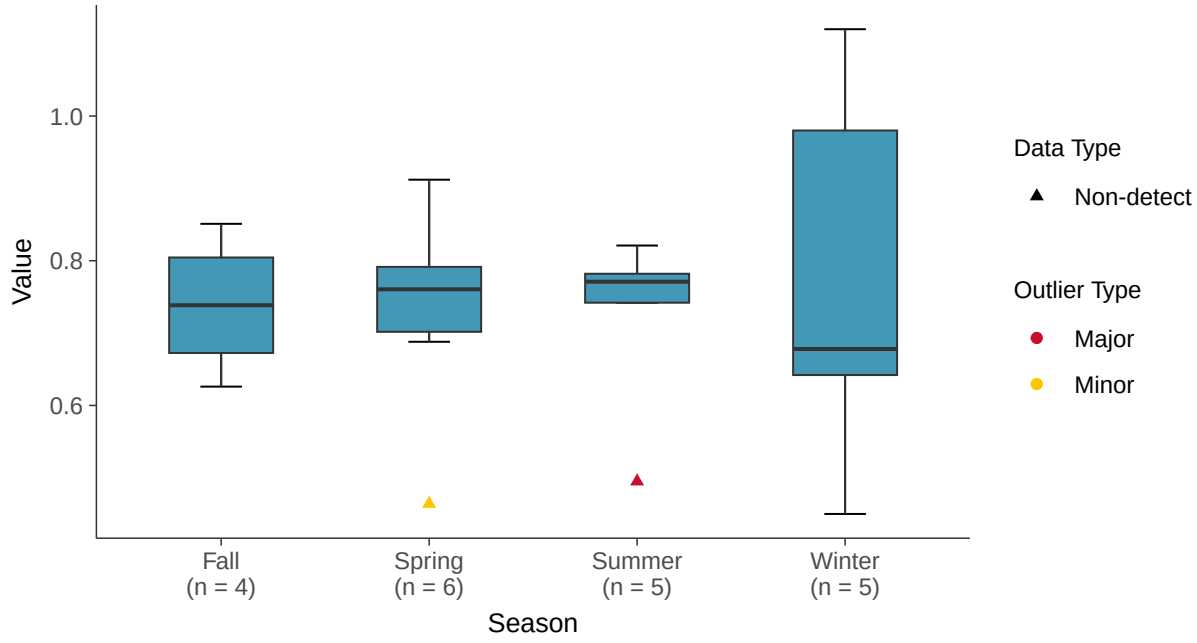
Boxplot

Radium 226 and 228, MW-09 (pCi/L)



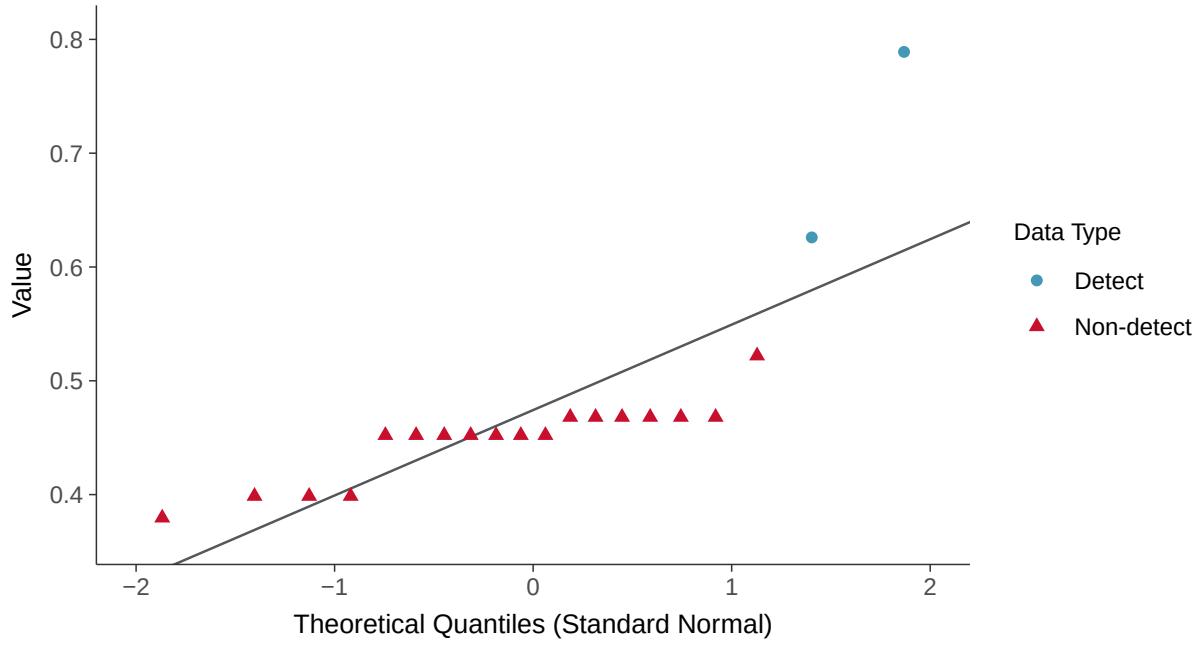
Boxplot by Season

Radium 226 and 228, MW-09 (pCi/L)



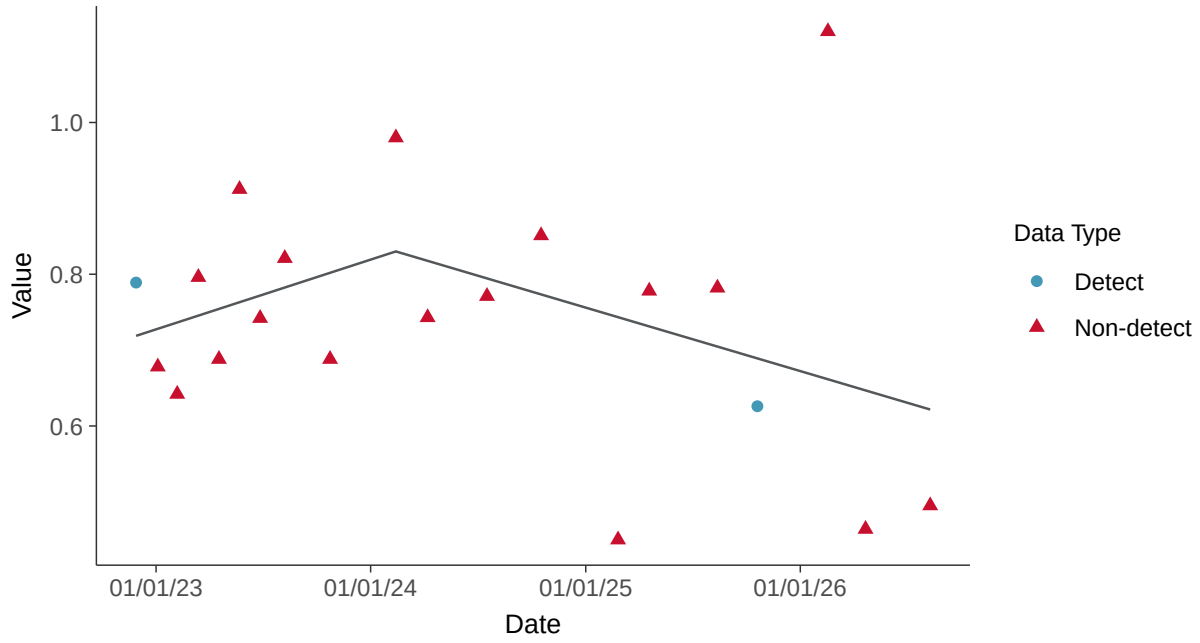
Normal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-09 (pCi/L)



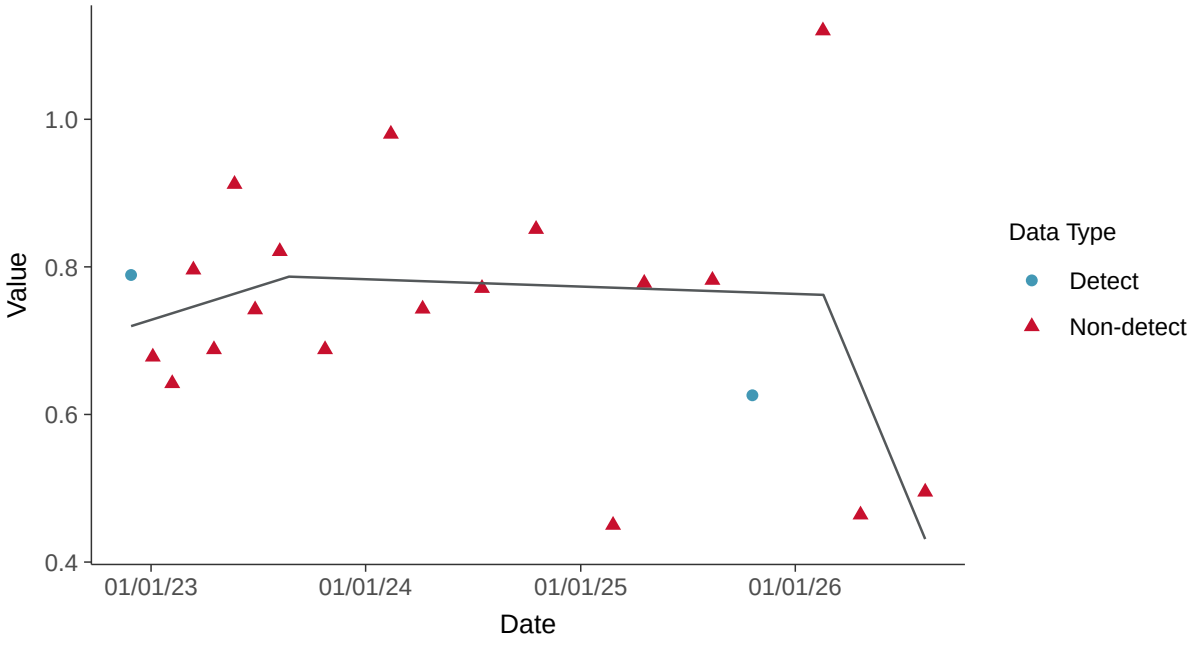
Trend Regression: Piecewise Linear-Linear

Radium 226 and 228, MW-09 (pCi/L)



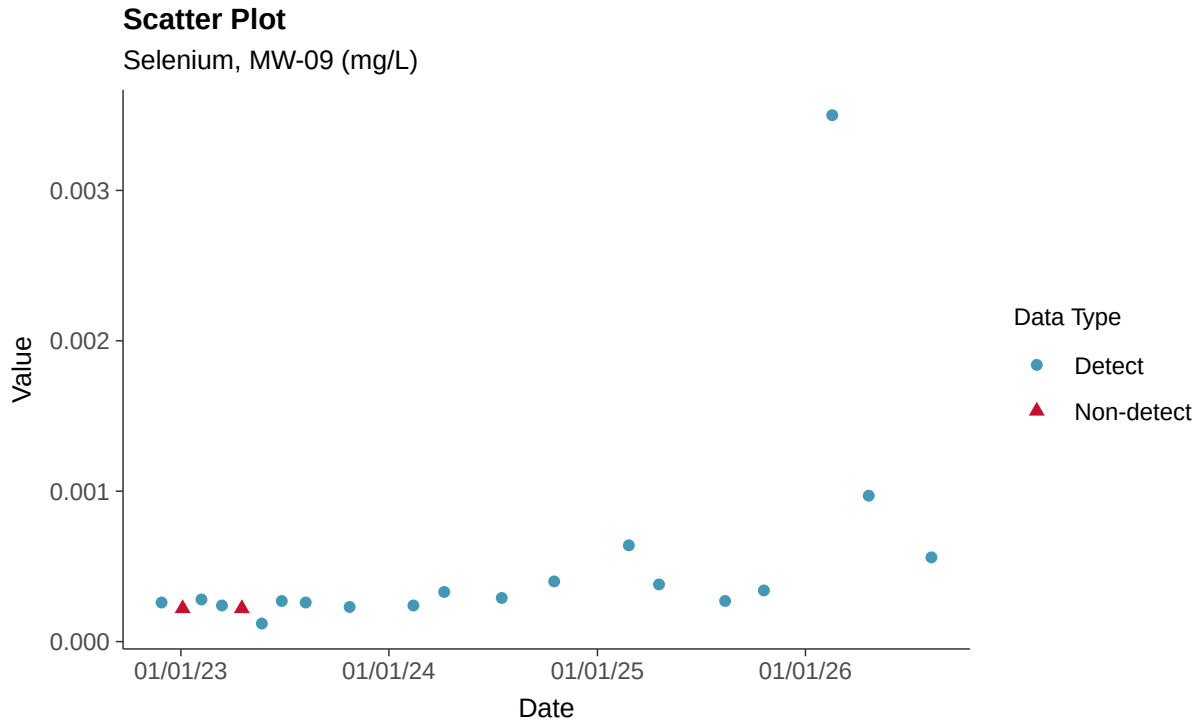
Trend Regression: Piecewise Linear-Linear-Linear

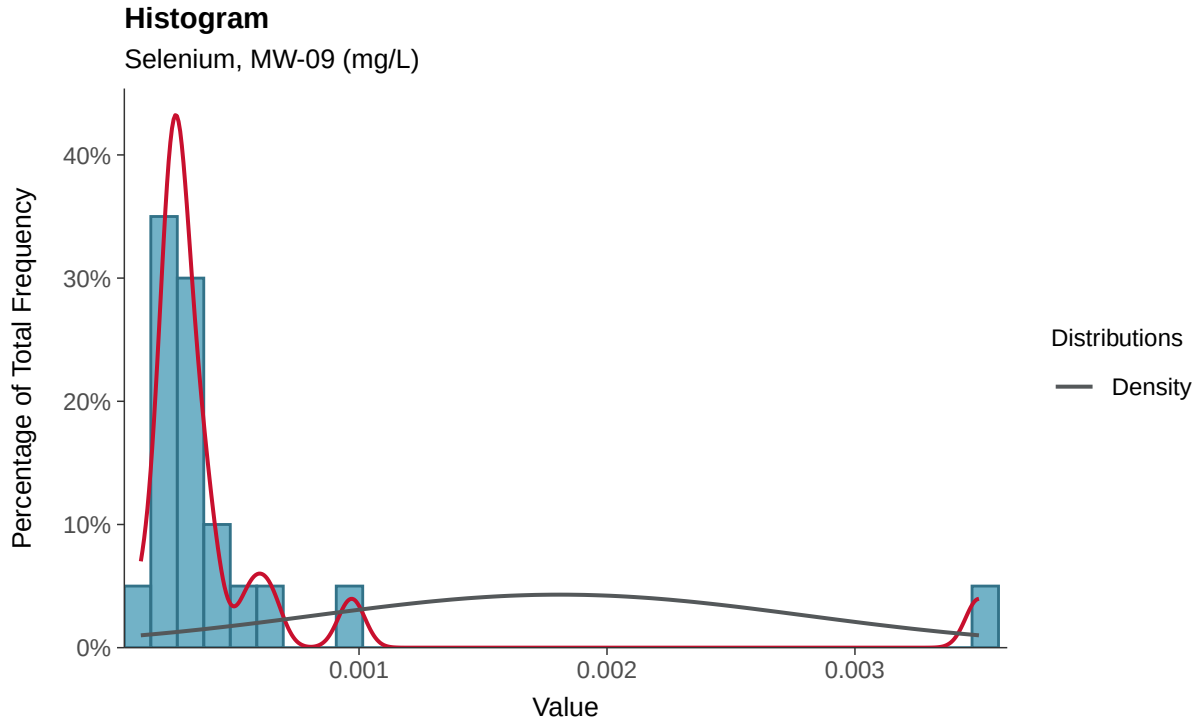
Radium 226 and 228, MW-09 (pCi/L)



Appendix IV: Selenium, MW-09

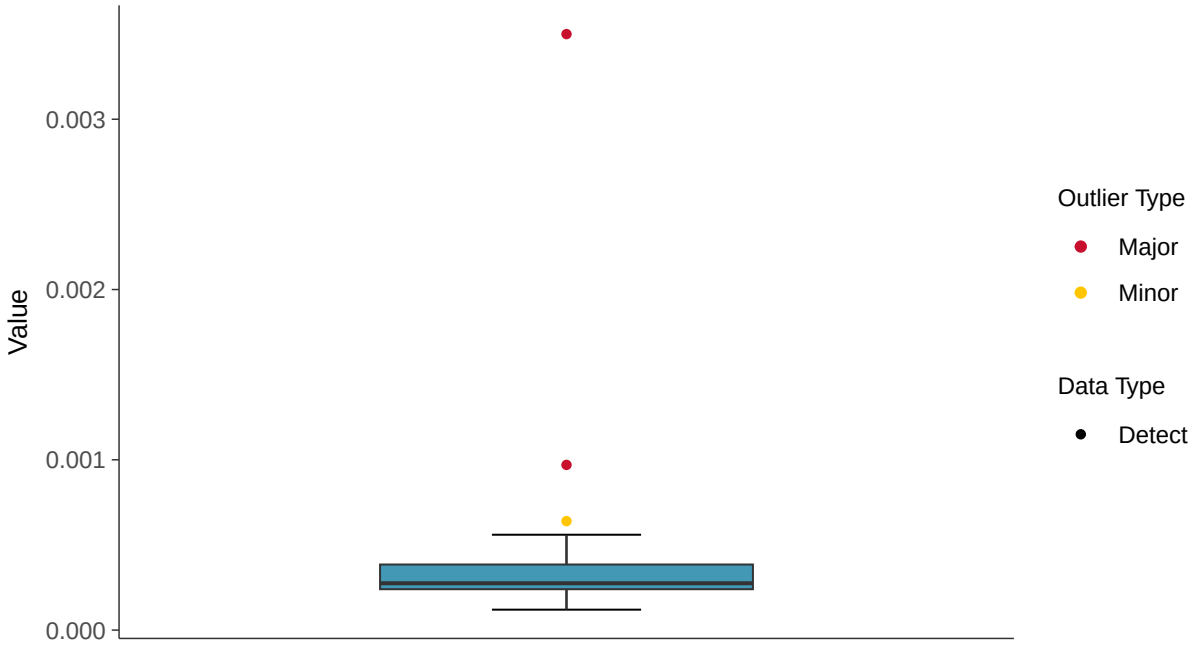
ID: 19_2_4_122





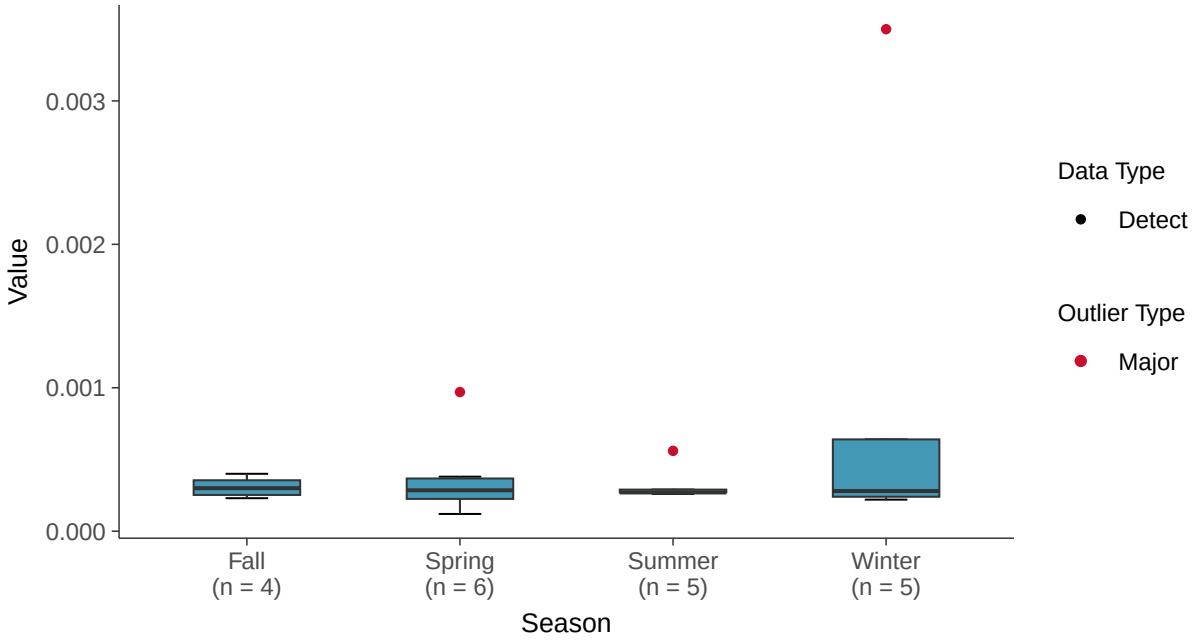
Boxplot

Selenium, MW-09 (mg/L)



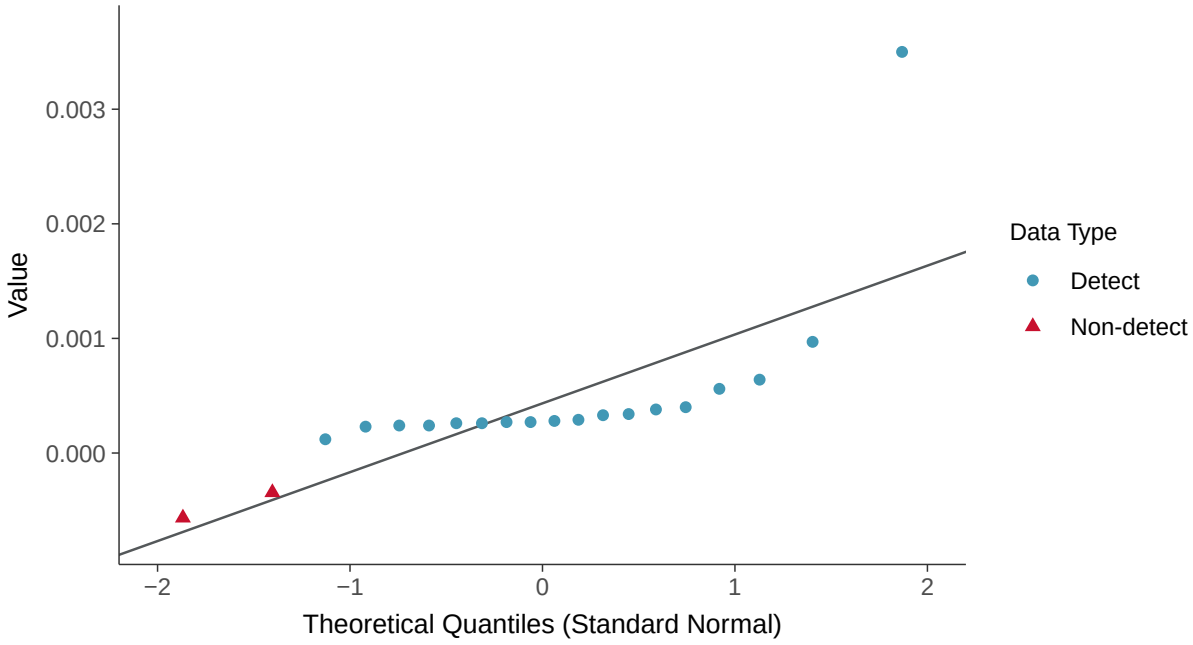
Boxplot by Season

Selenium, MW-09 (mg/L)



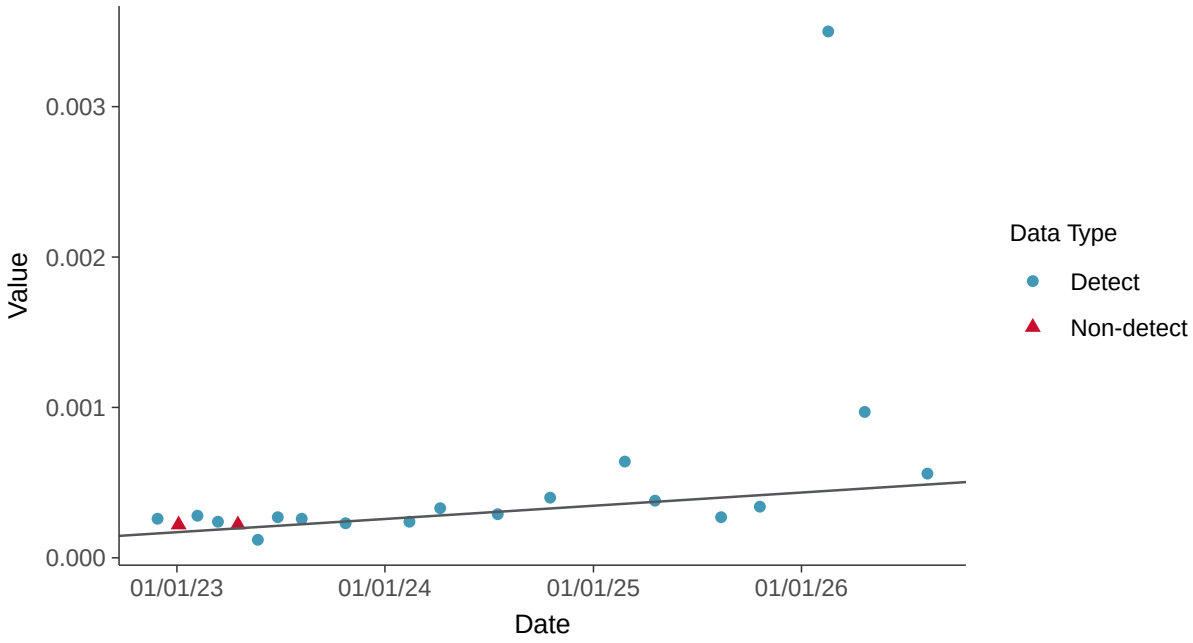
Normal Q-Q plot using ROS Imputed Estimates

Selenium, MW-09 (mg/L)



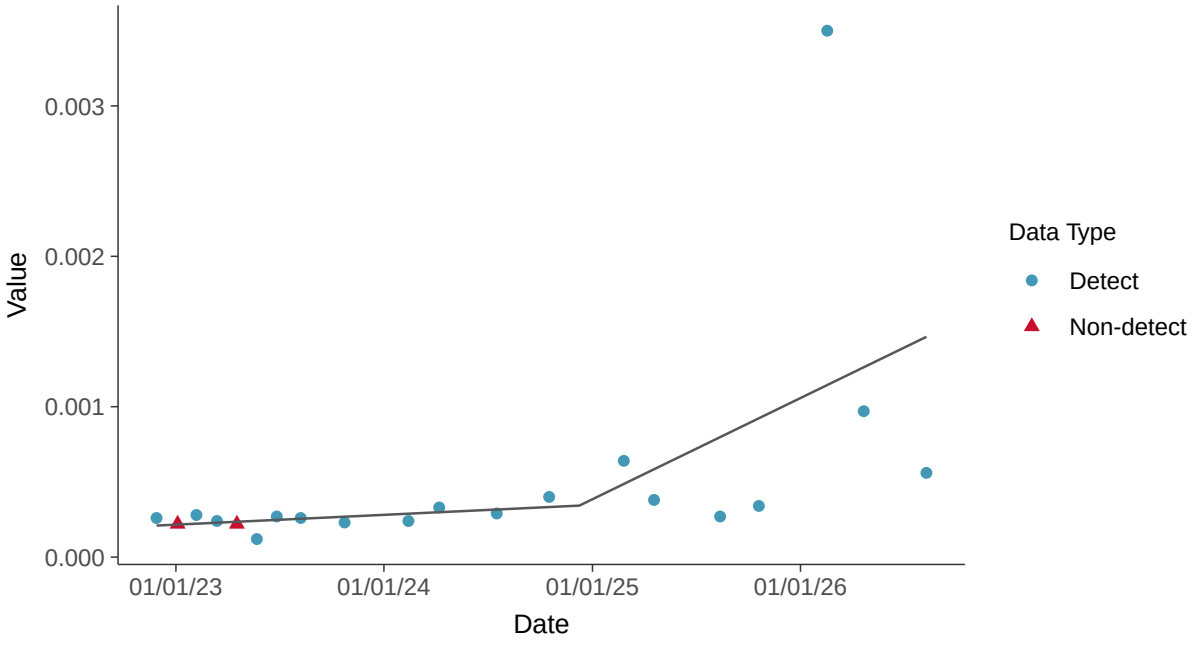
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Selenium, MW-09 (mg/L)



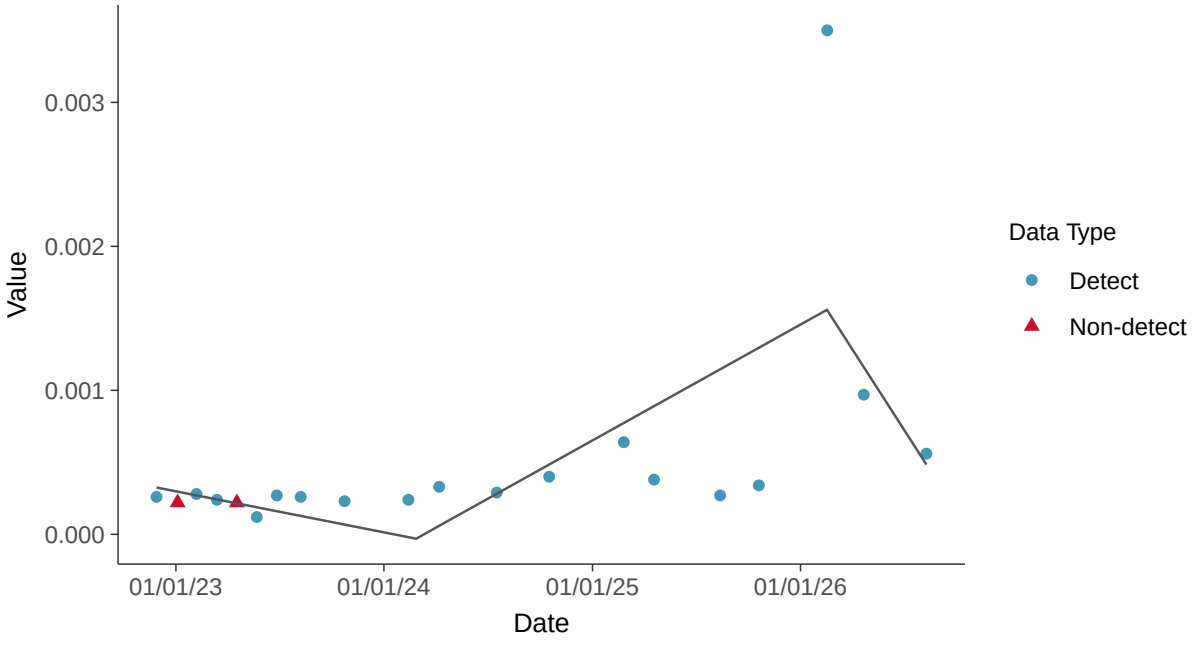
Trend Regression: Piecewise Linear-Linear

Selenium, MW-09 (mg/L)



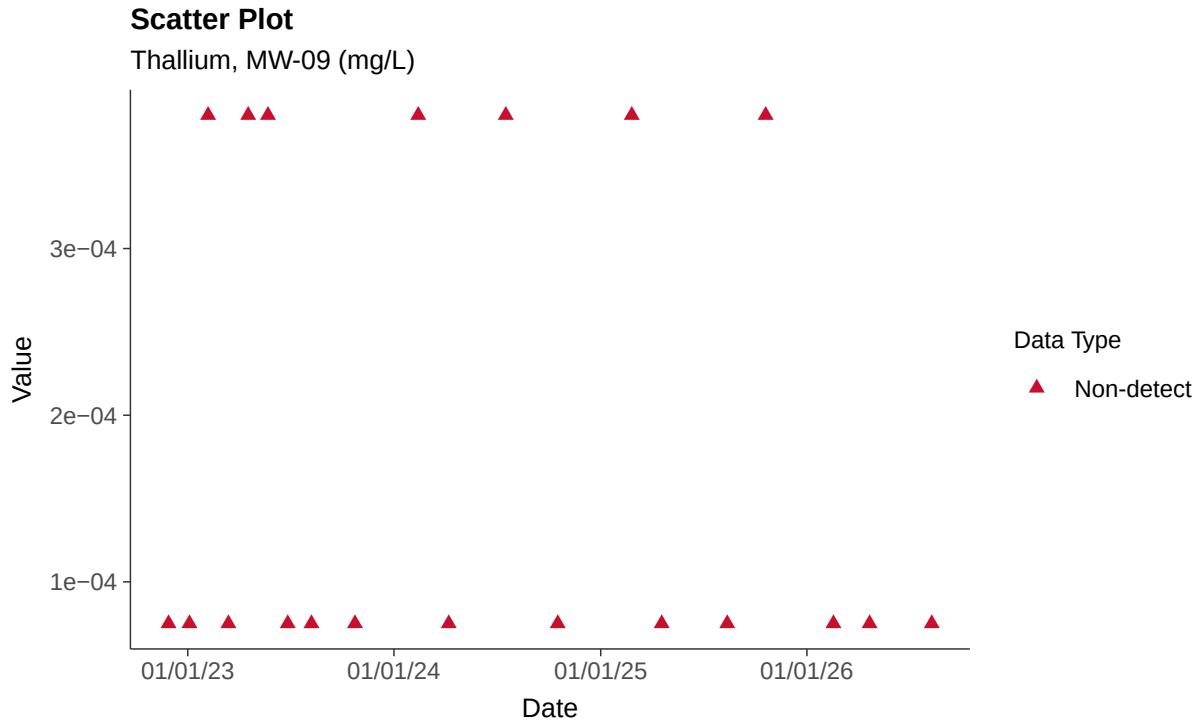
Trend Regression: Piecewise Linear-Linear-Linear

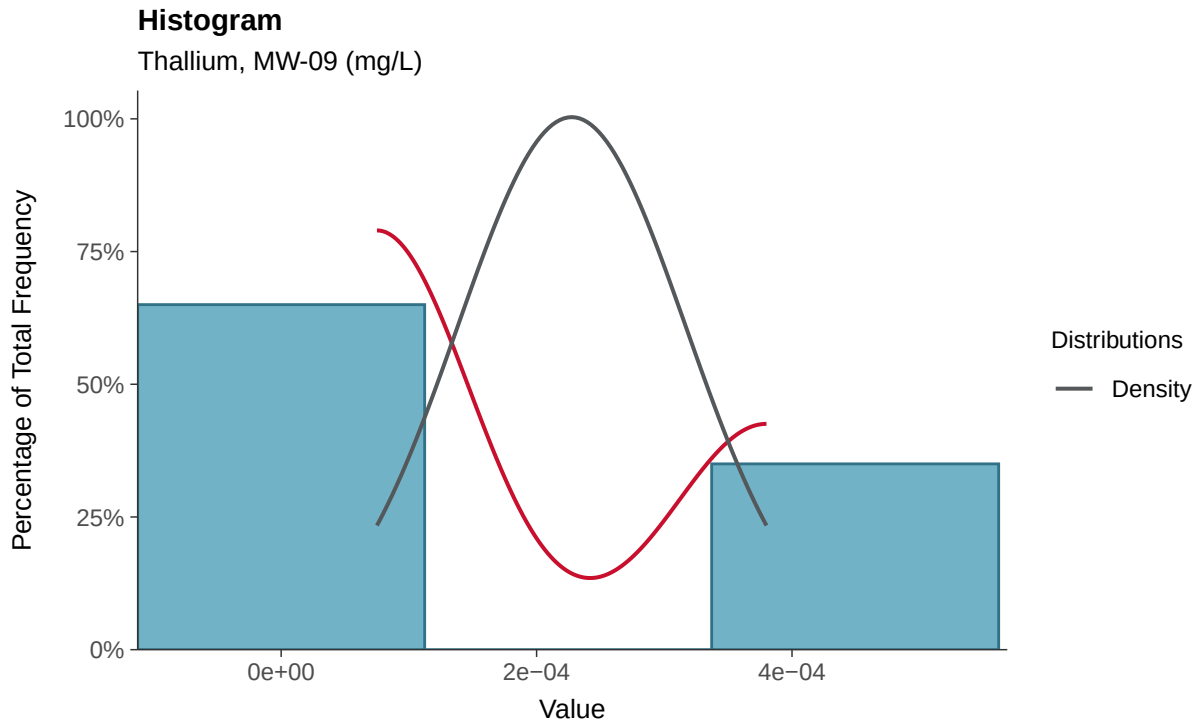
Selenium, MW-09 (mg/L)



Appendix IV: Thallium, MW-09

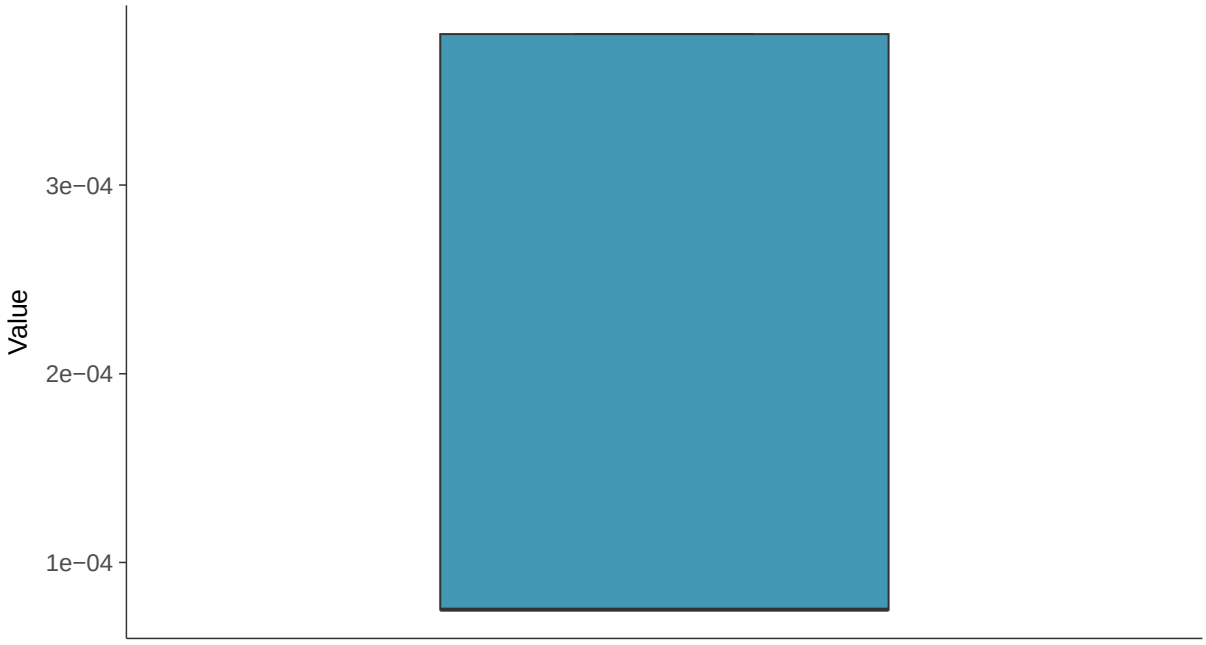
ID: 19_2_4_125





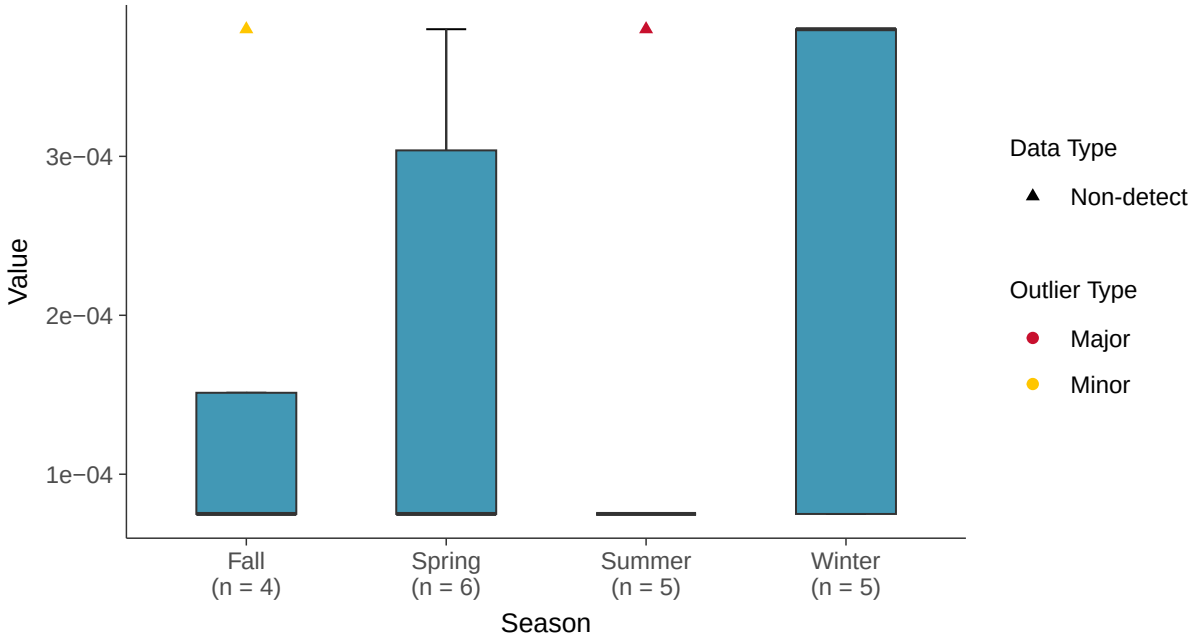
Boxplot

Thallium, MW-09 (mg/L)



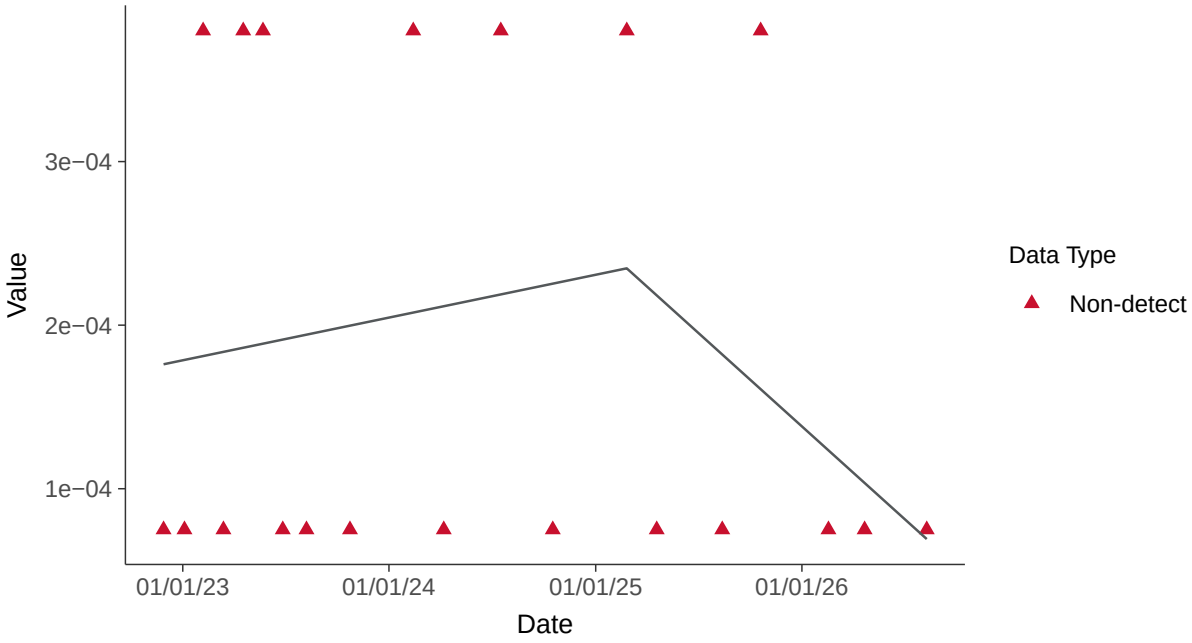
Boxplot by Season

Thallium, MW-09 (mg/L)



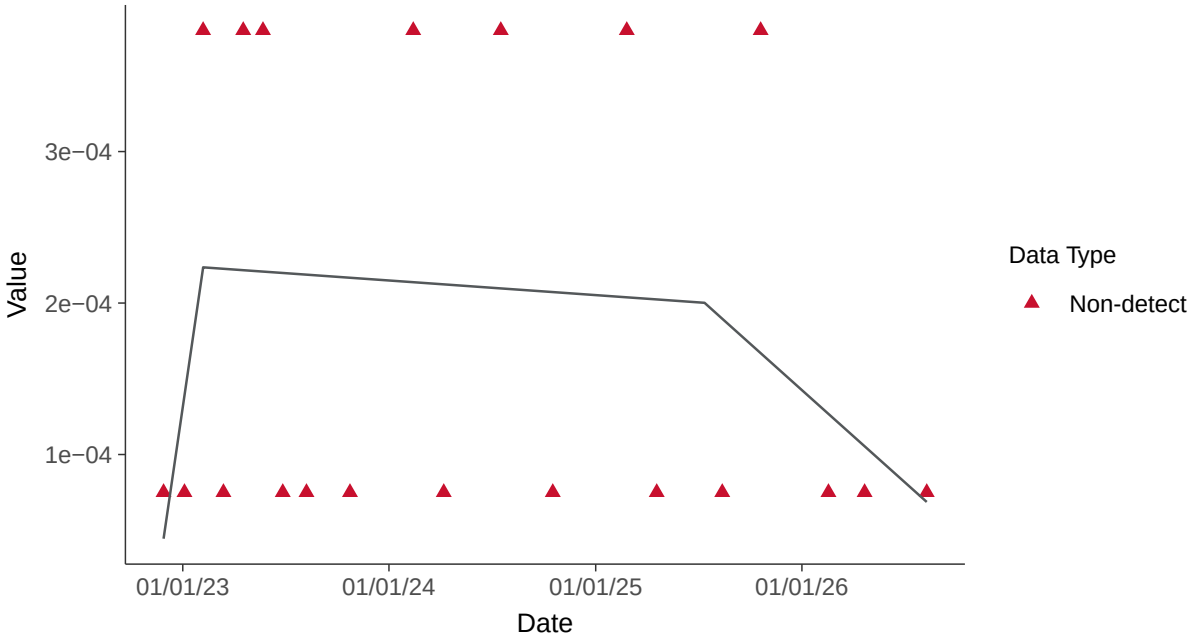
Trend Regression: Piecewise Linear-Linear

Thallium, MW-09 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Thallium, MW-09 (mg/L)

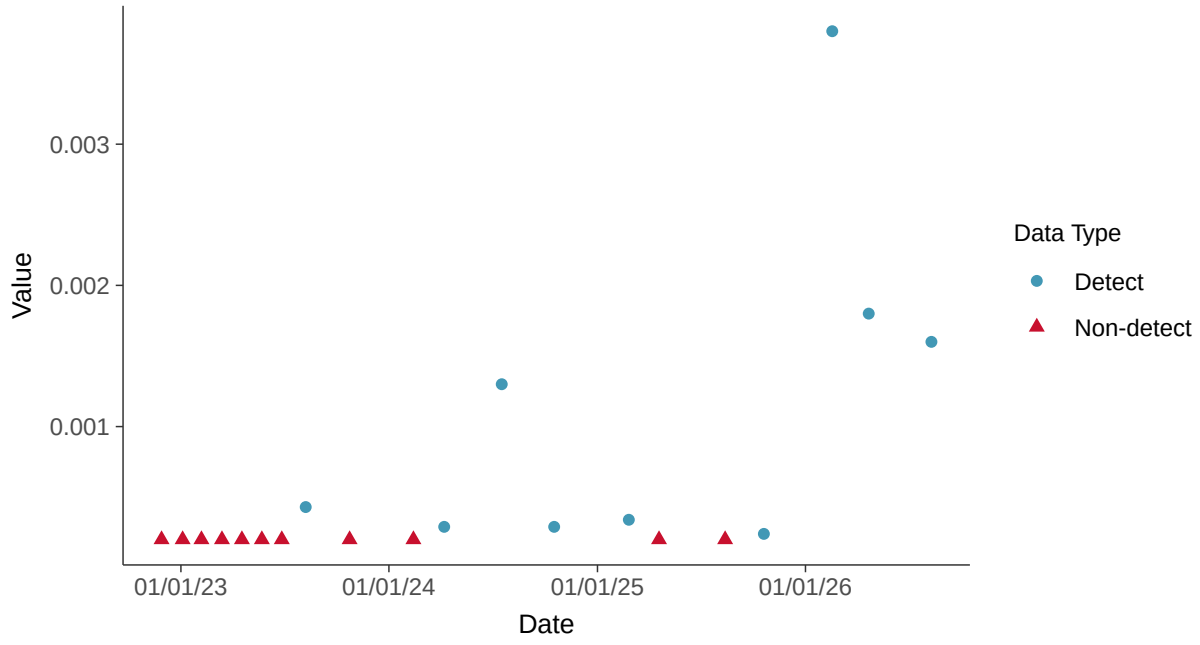


Part 115: Copper, MW-09

ID: 19_2_5_111

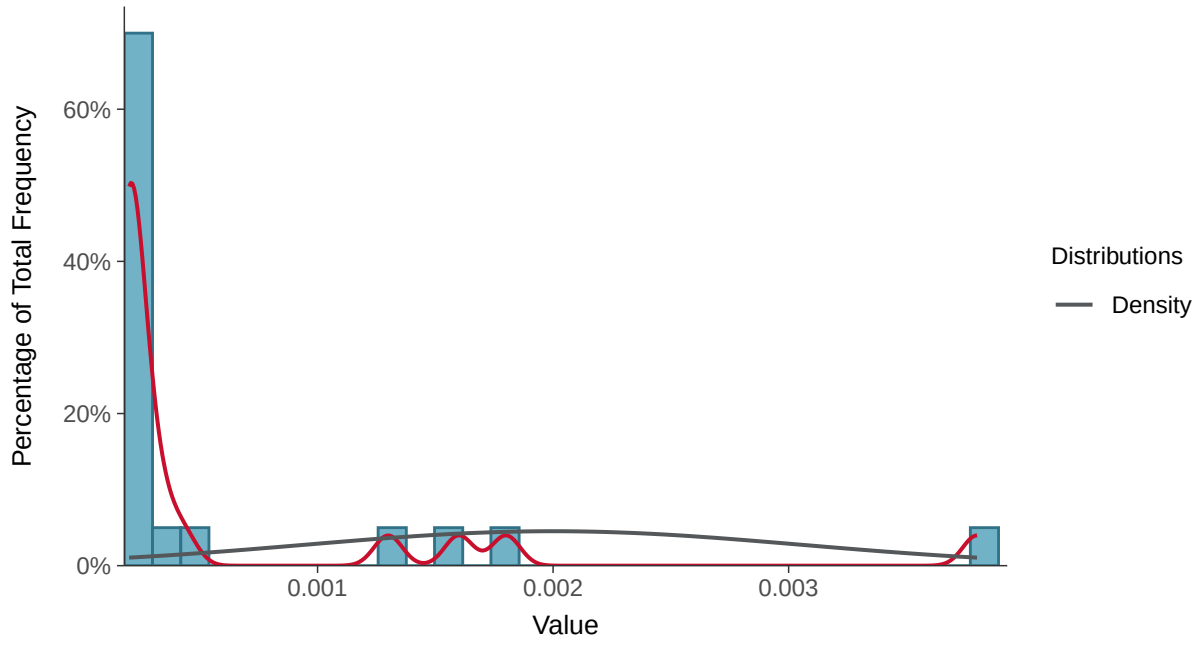
Scatter Plot

Copper, MW-09 (mg/L)



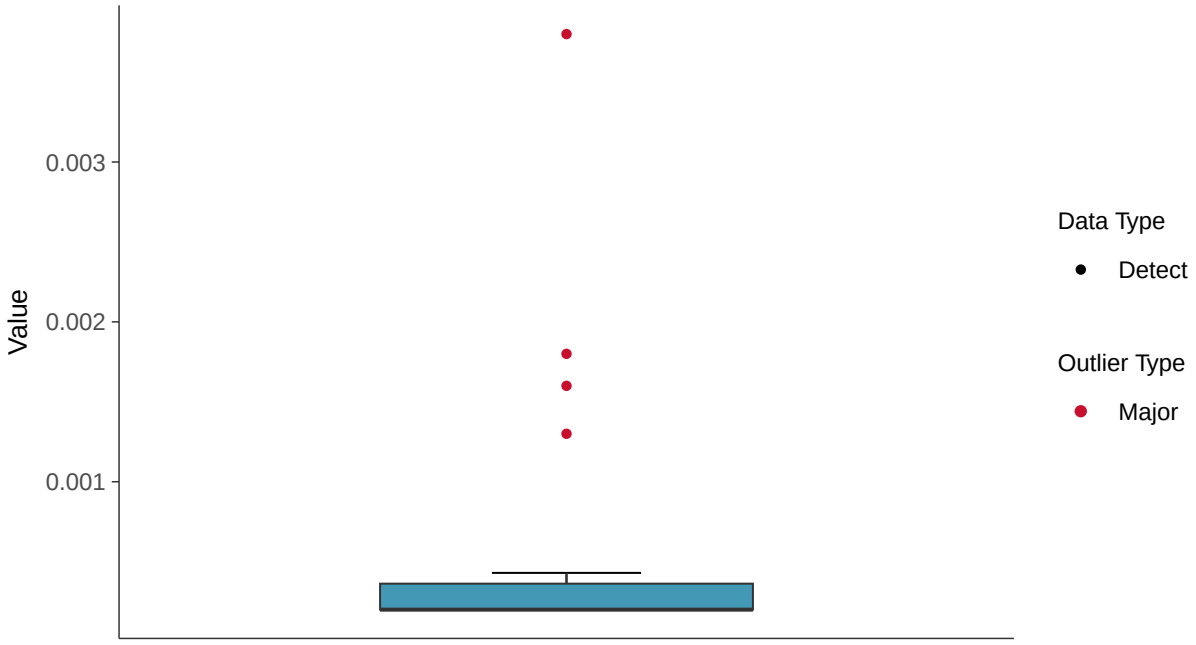
Histogram

Copper, MW-09 (mg/L)



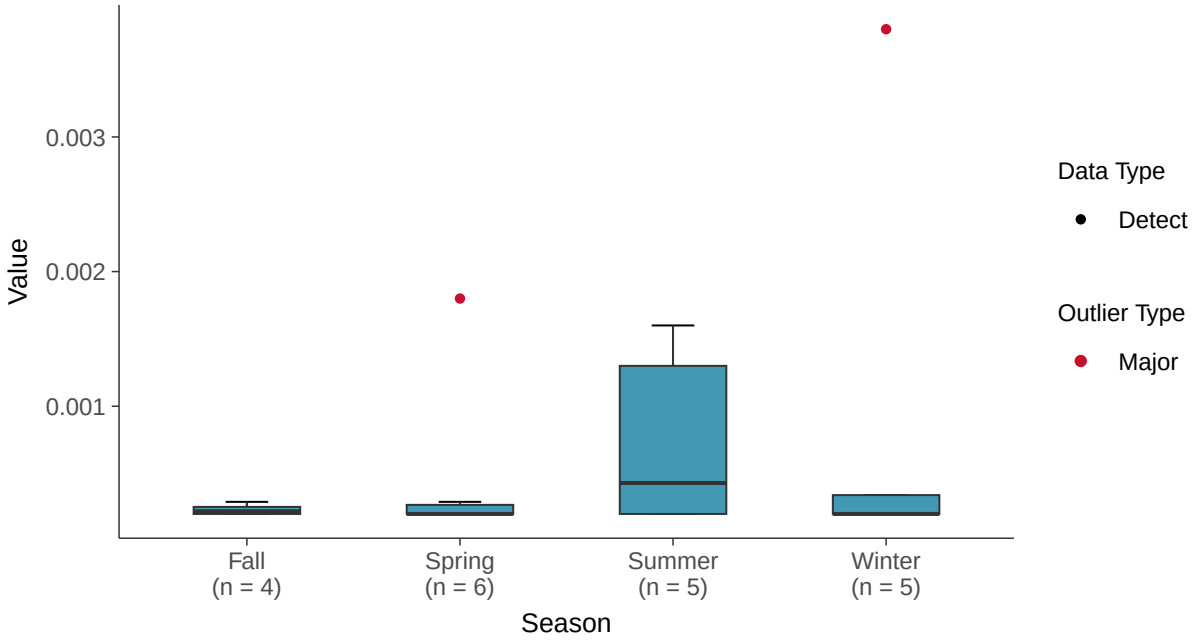
Boxplot

Copper, MW-09 (mg/L)



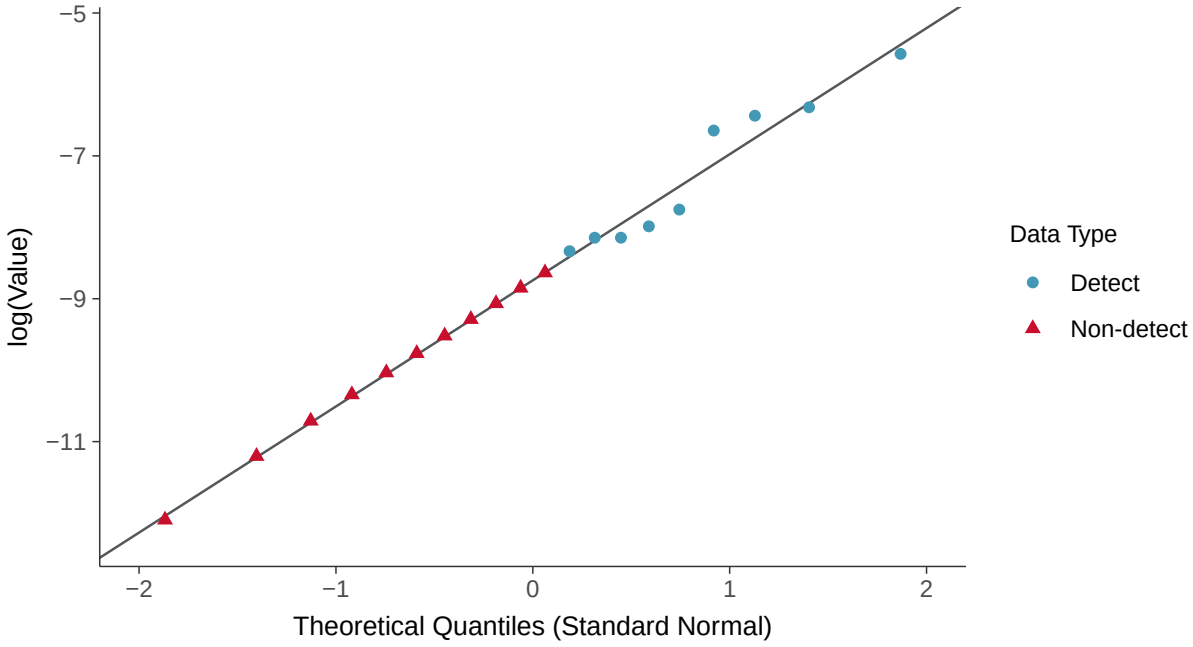
Boxplot by Season

Copper, MW-09 (mg/L)



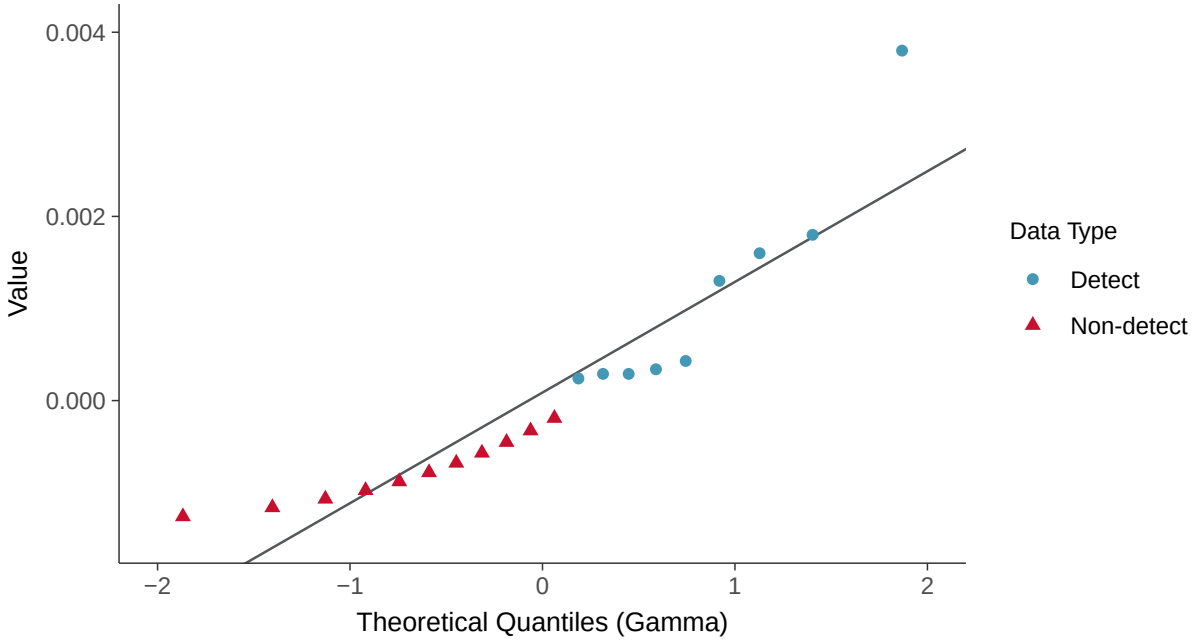
Lognormal Q-Q plot using ROS Imputed Estimates

Copper, MW-09 (mg/L)



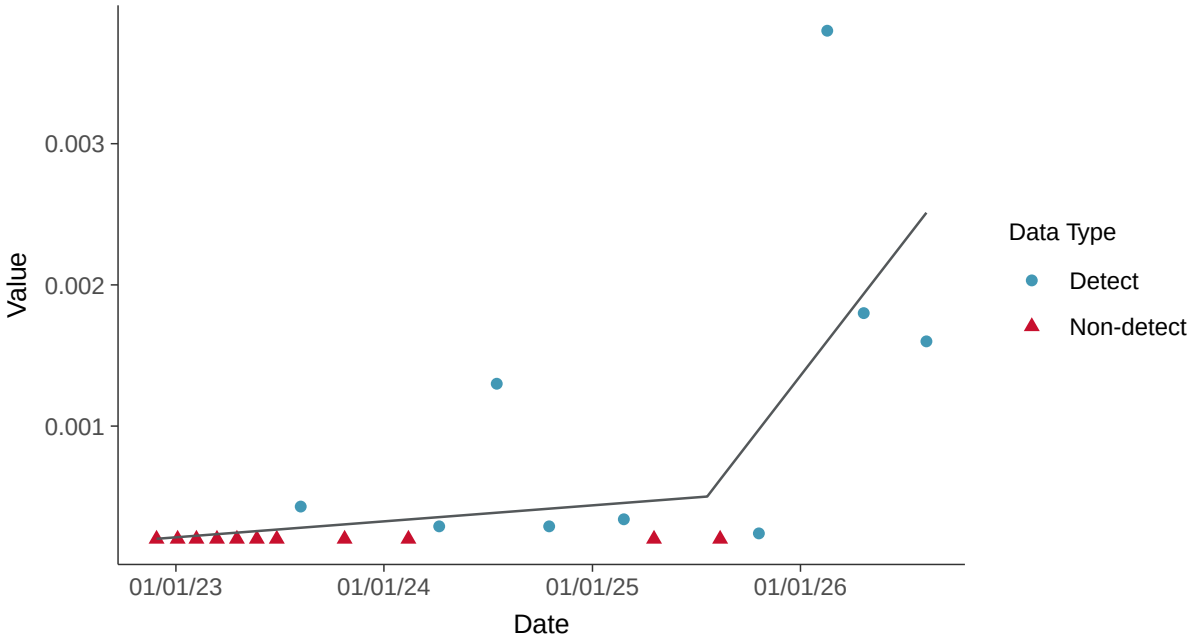
Gamma Q-Q plot using ROS Imputed Estimates

Copper, MW-09 (mg/L)



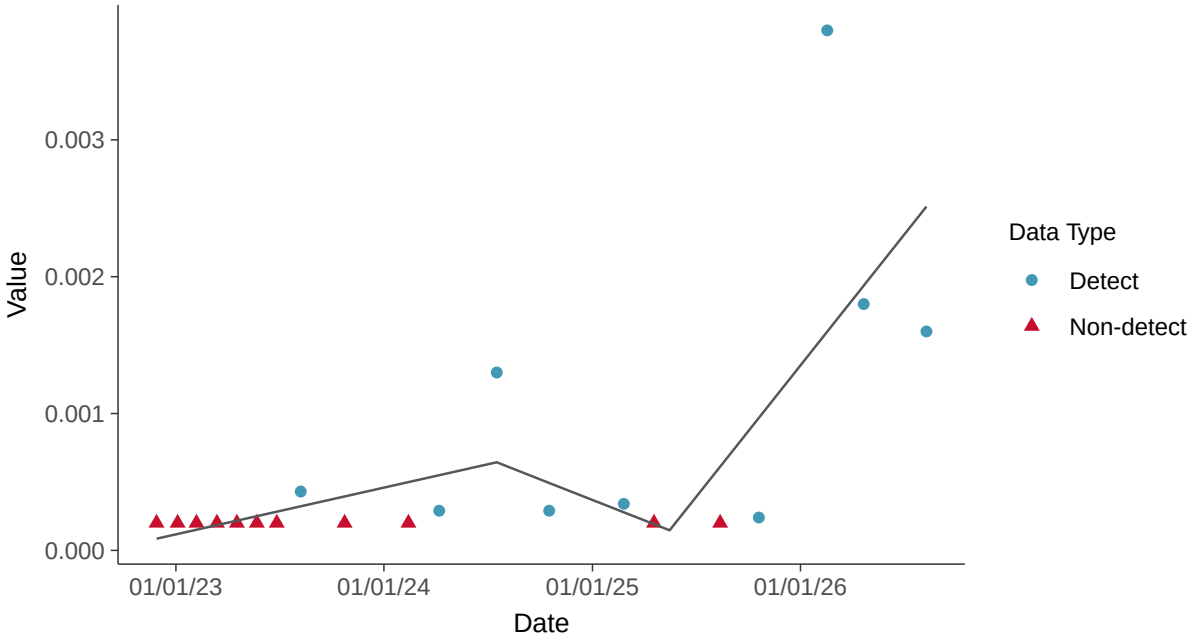
Trend Regression: Piecewise Linear-Linear

Copper, MW-09 (mg/L)



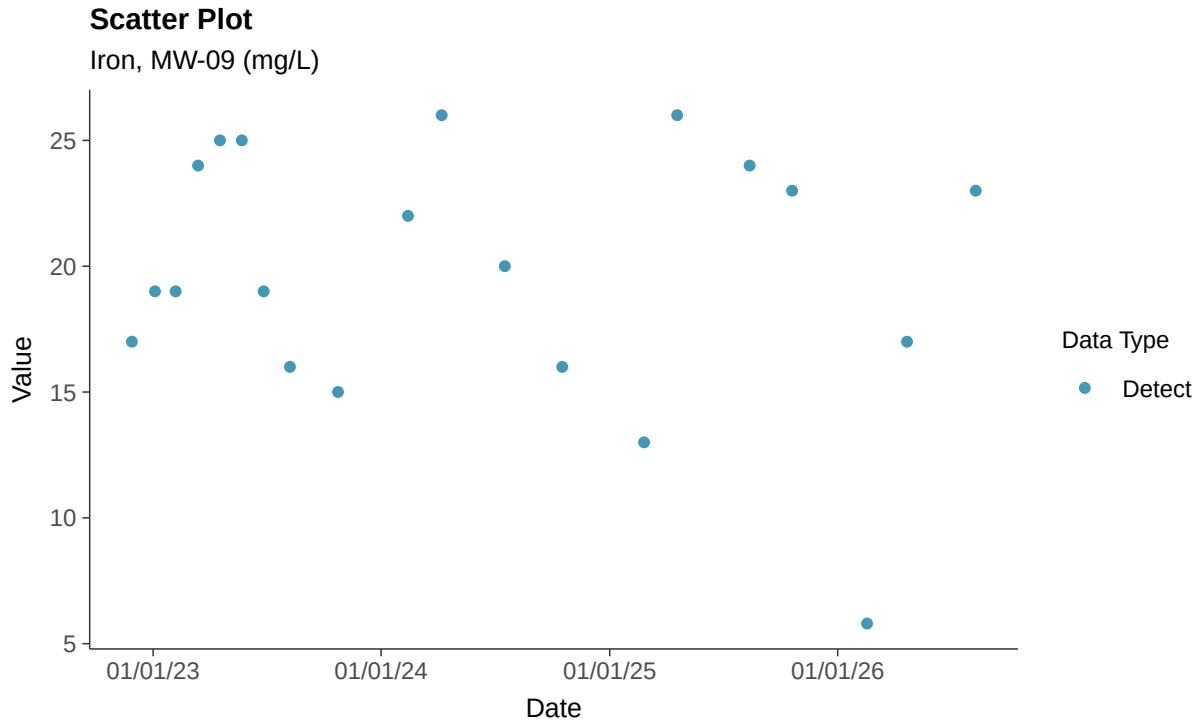
Trend Regression: Piecewise Linear-Linear-Linear

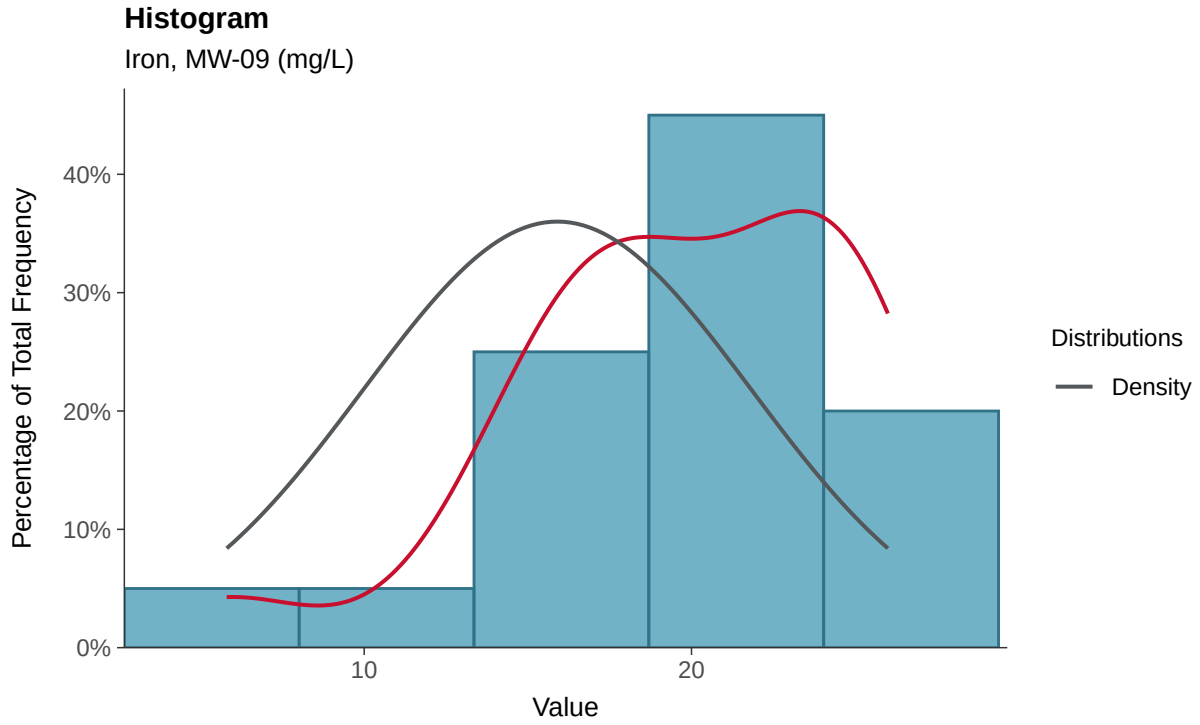
Copper, MW-09 (mg/L)



Part 115: Iron, MW-09

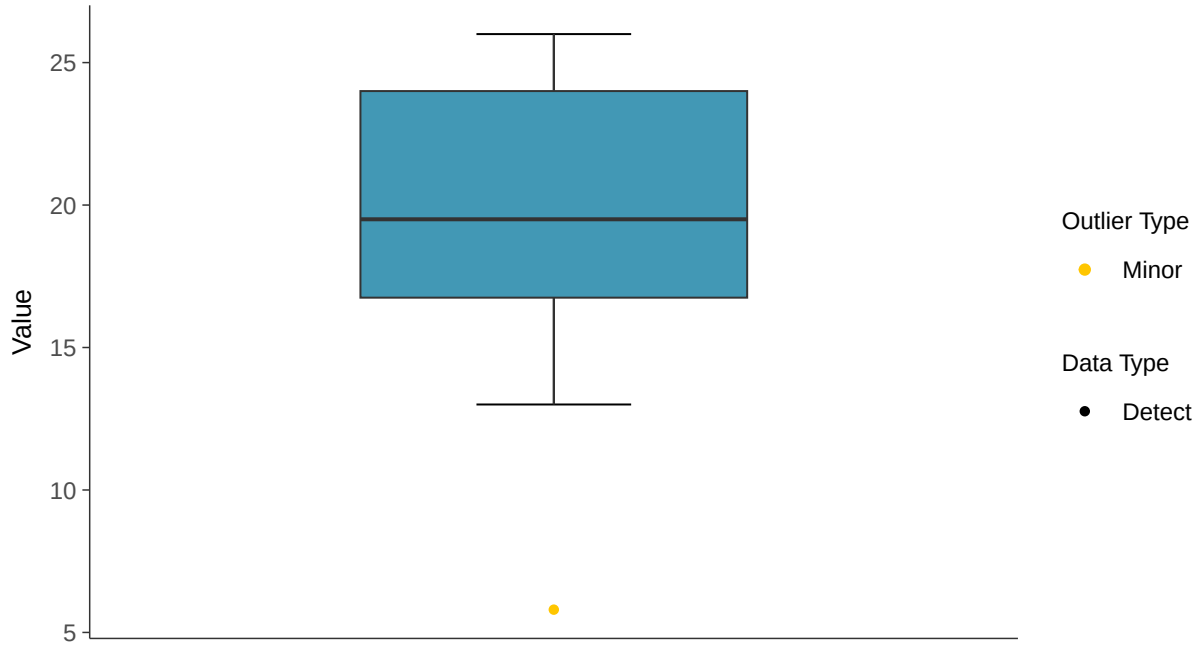
ID: 19_2_5_114





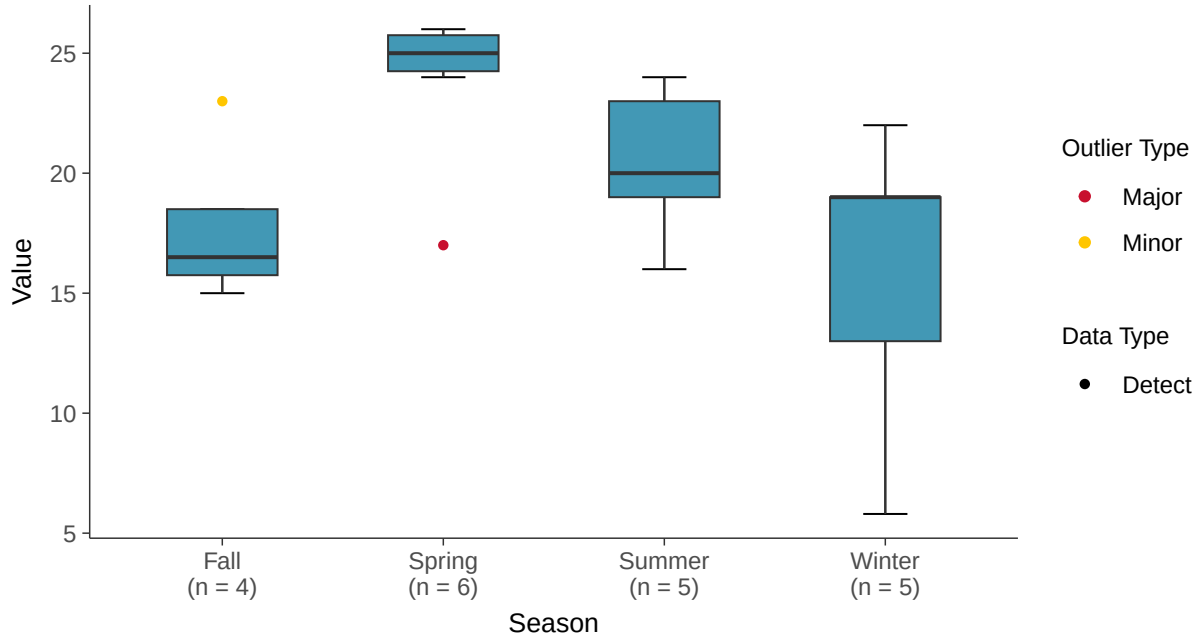
Boxplot

Iron, MW-09 (mg/L)



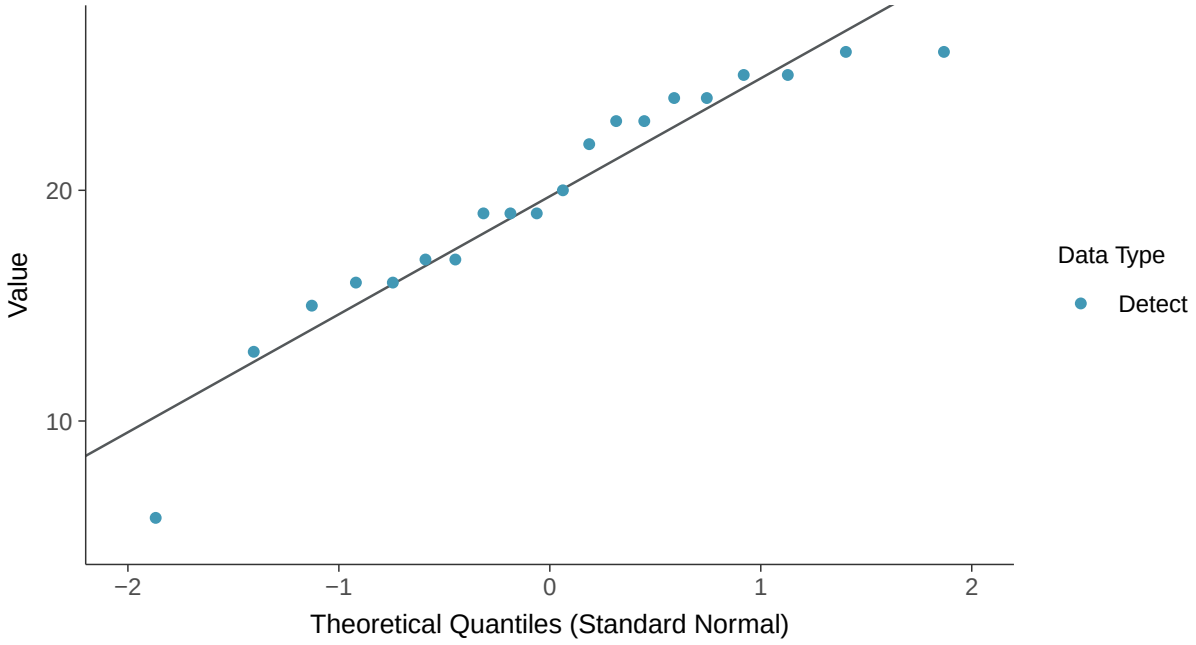
Boxplot by Season

Iron, MW-09 (mg/L)



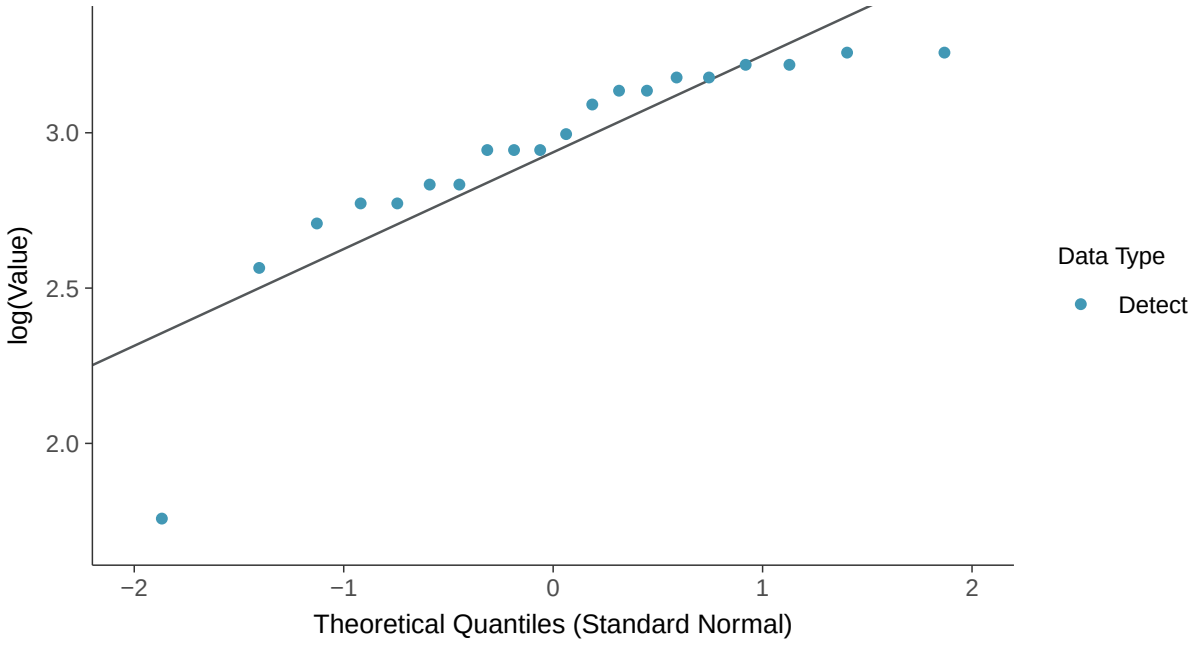
Normal Q-Q plot

Iron, MW-09 (mg/L)



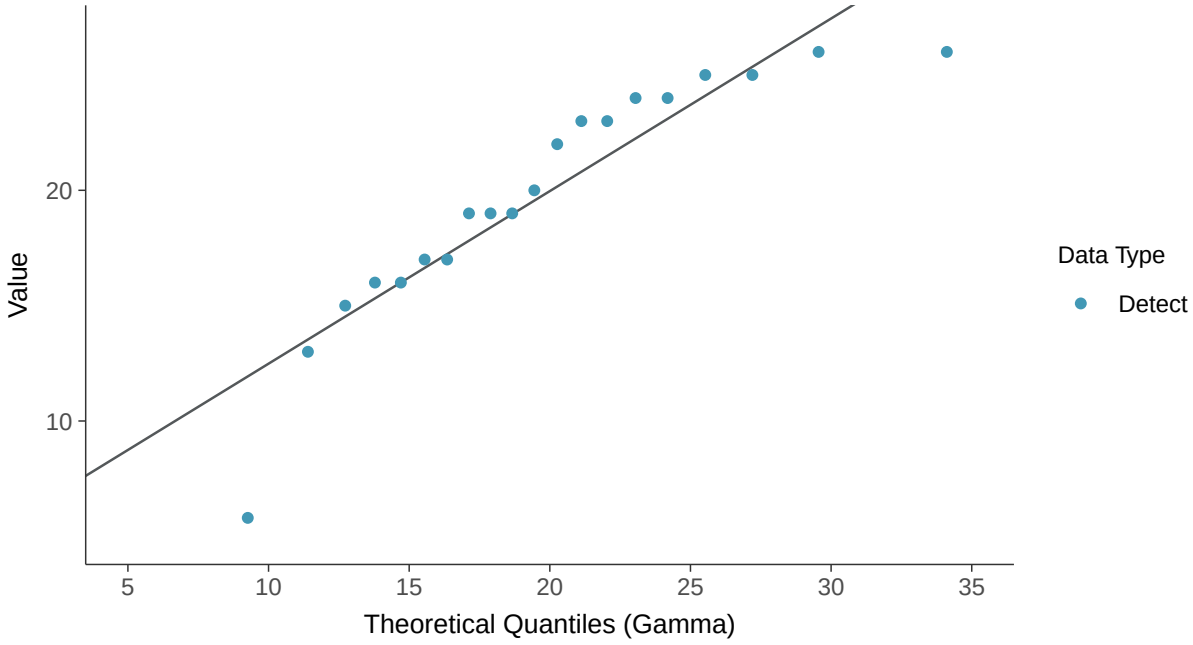
Lognormal Q-Q plot

Iron, MW-09 (mg/L)



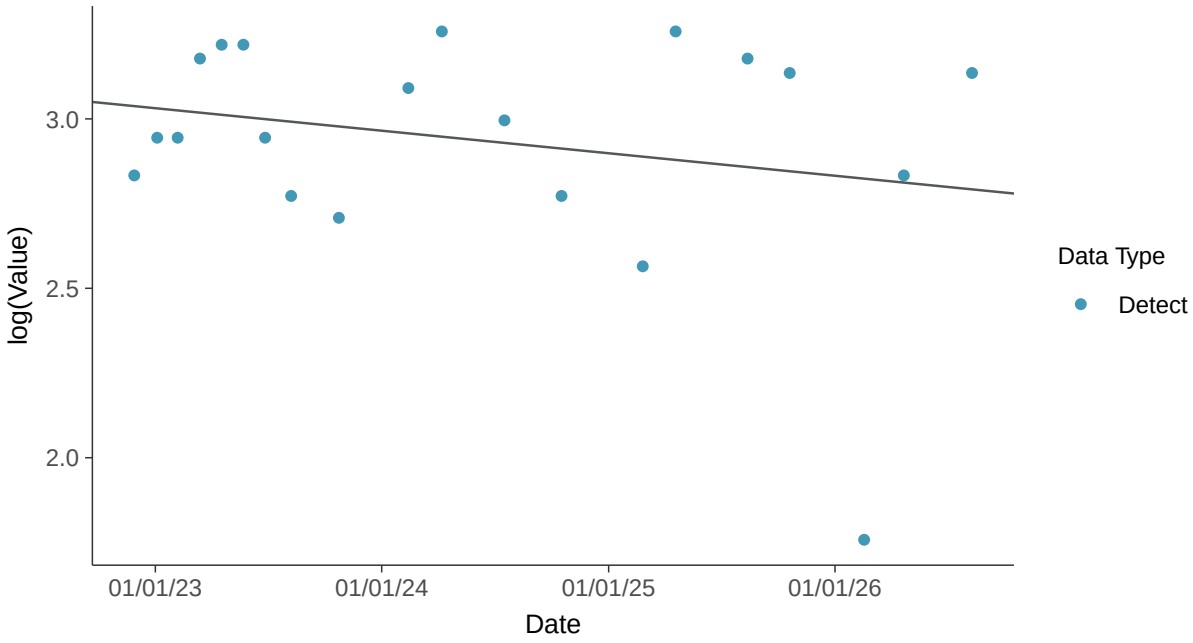
Gamma Q-Q plot

Iron, MW-09 (mg/L)



Trend Regression: Lognormal MLE

Iron, MW-09 (mg/L)

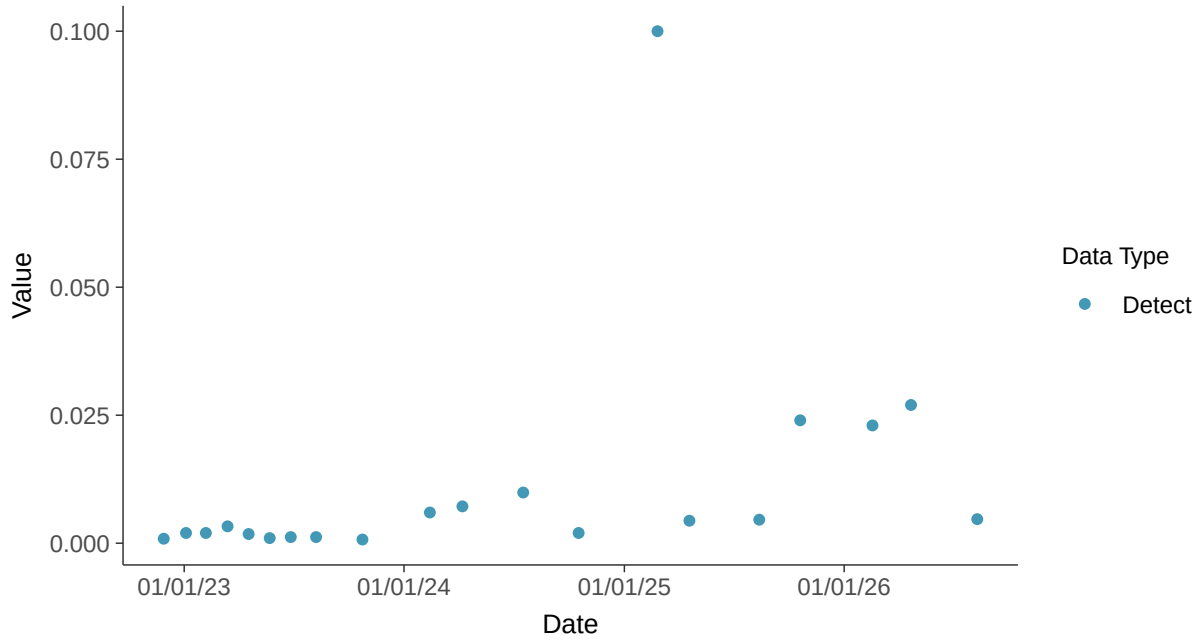


Part 115: Nickel, MW-09

ID: 19_2_5_119

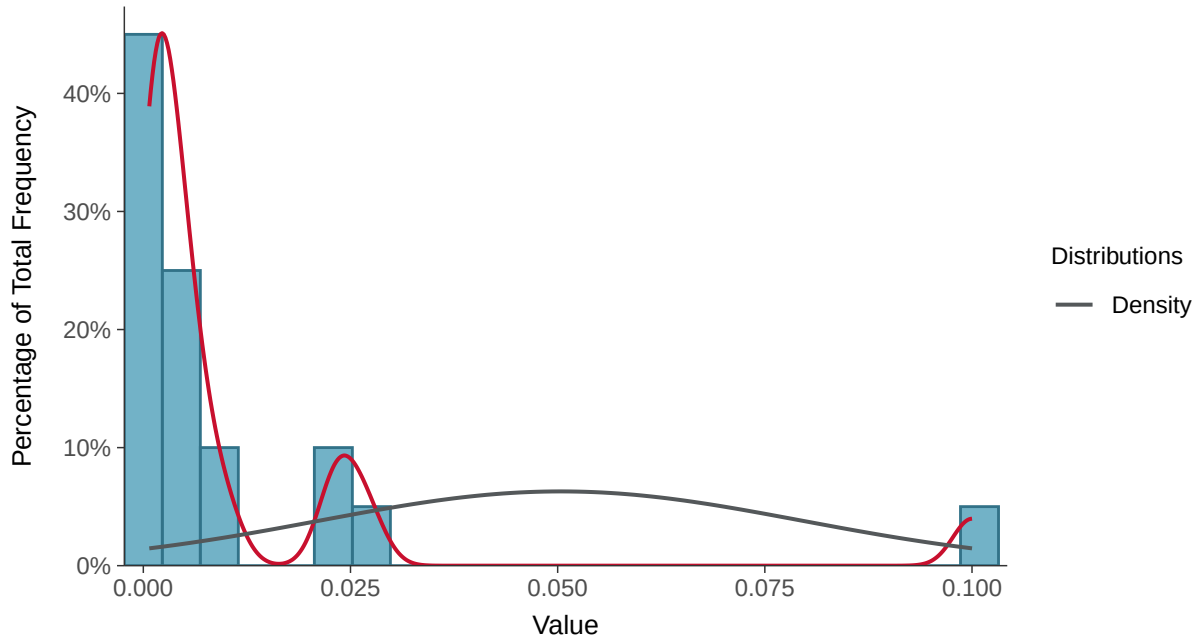
Scatter Plot

Nickel, MW-09 (mg/L)



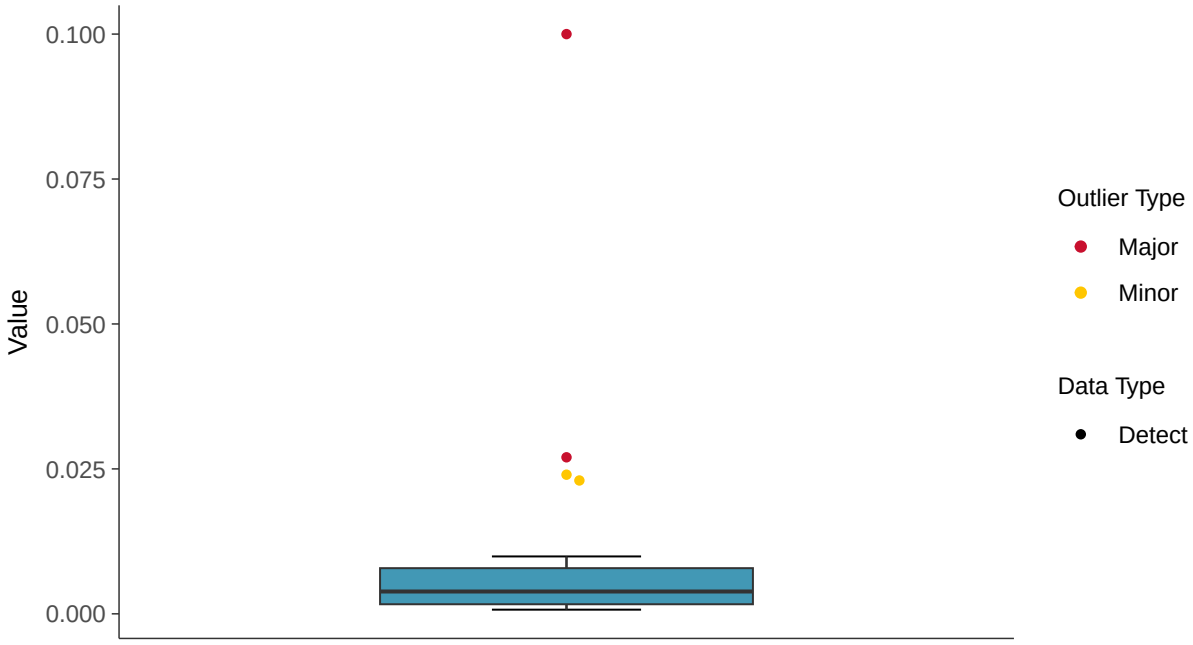
Histogram

Nickel, MW-09 (mg/L)



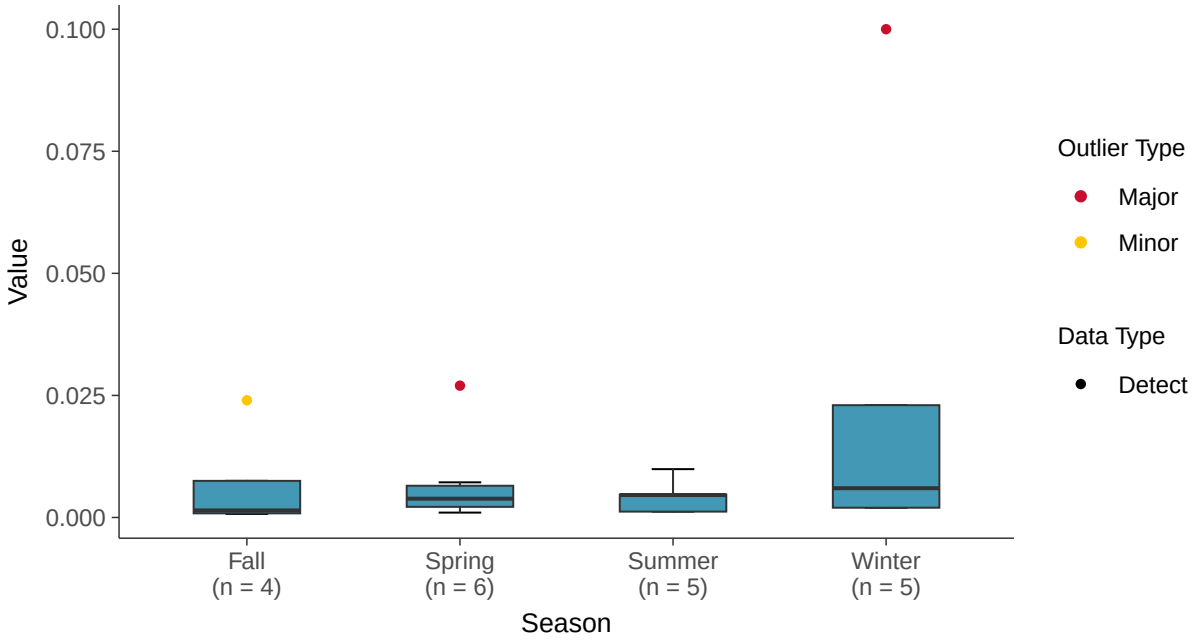
Boxplot

Nickel, MW-09 (mg/L)



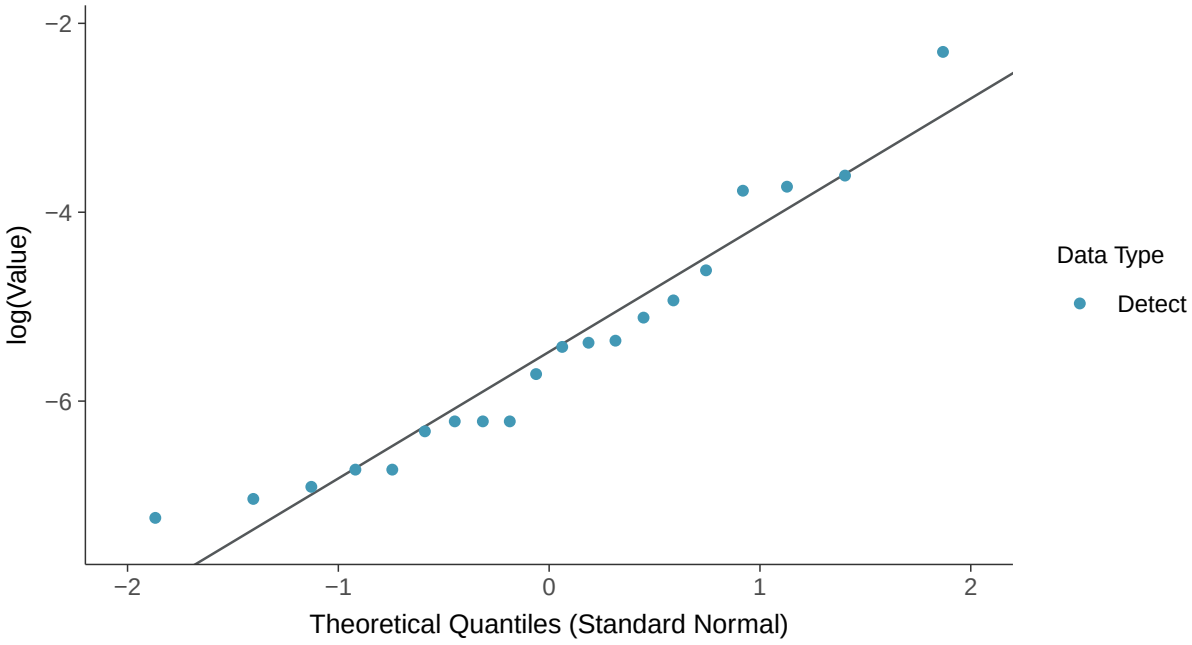
Boxplot by Season

Nickel, MW-09 (mg/L)



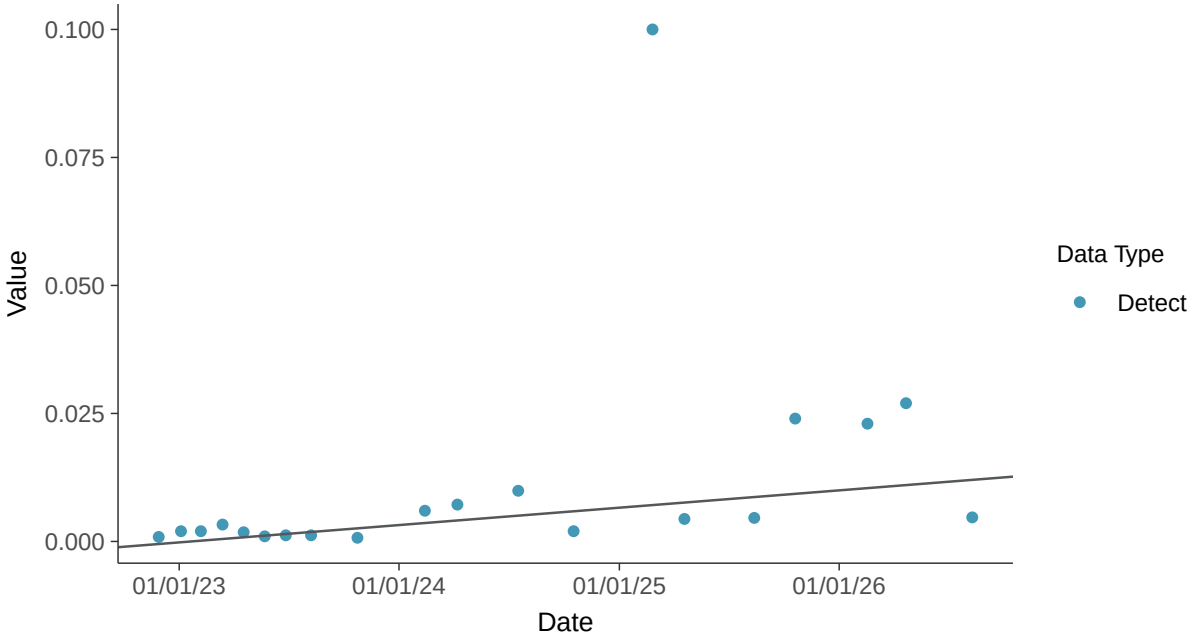
Lognormal Q-Q plot

Nickel, MW-09 (mg/L)



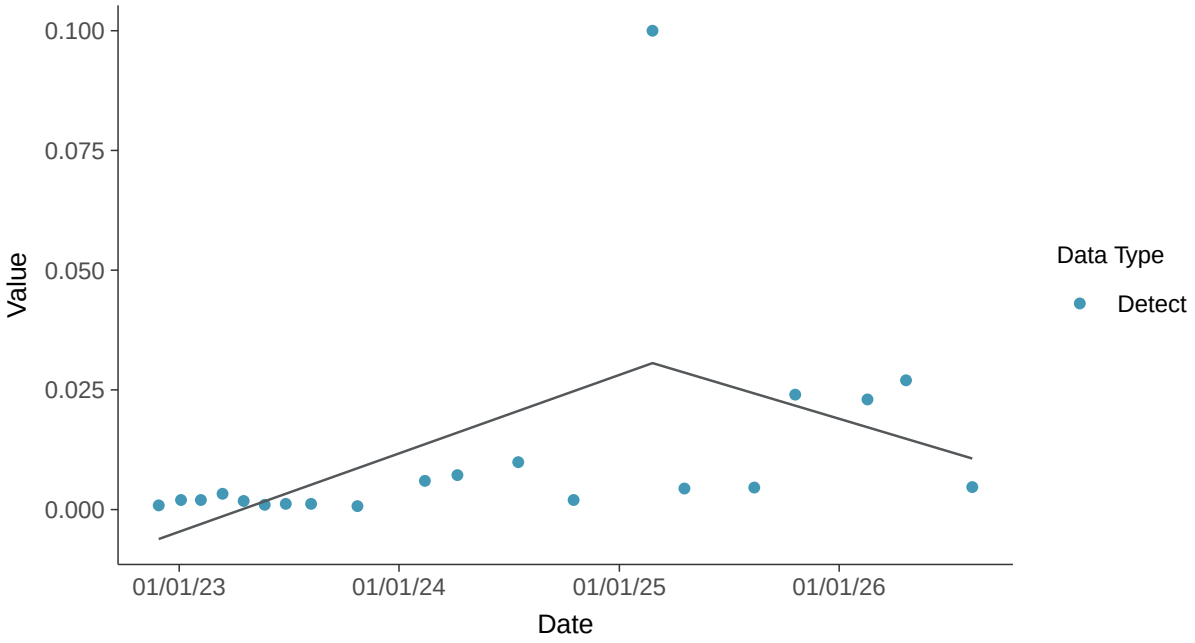
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Nickel, MW-09 (mg/L)



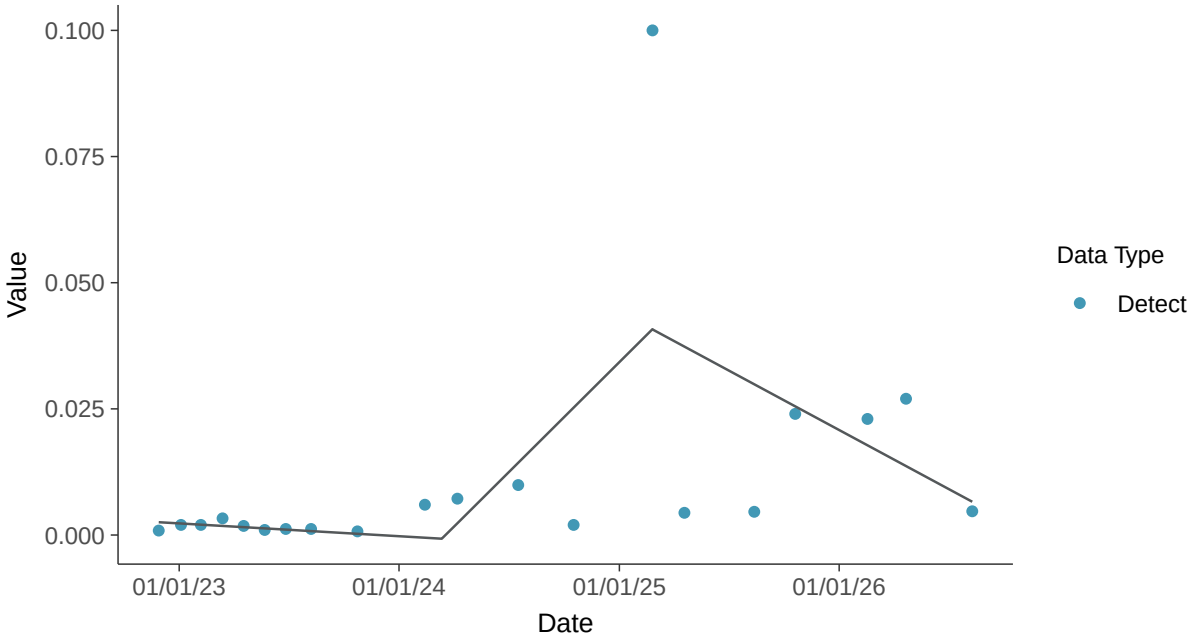
Trend Regression: Piecewise Linear-Linear

Nickel, MW-09 (mg/L)



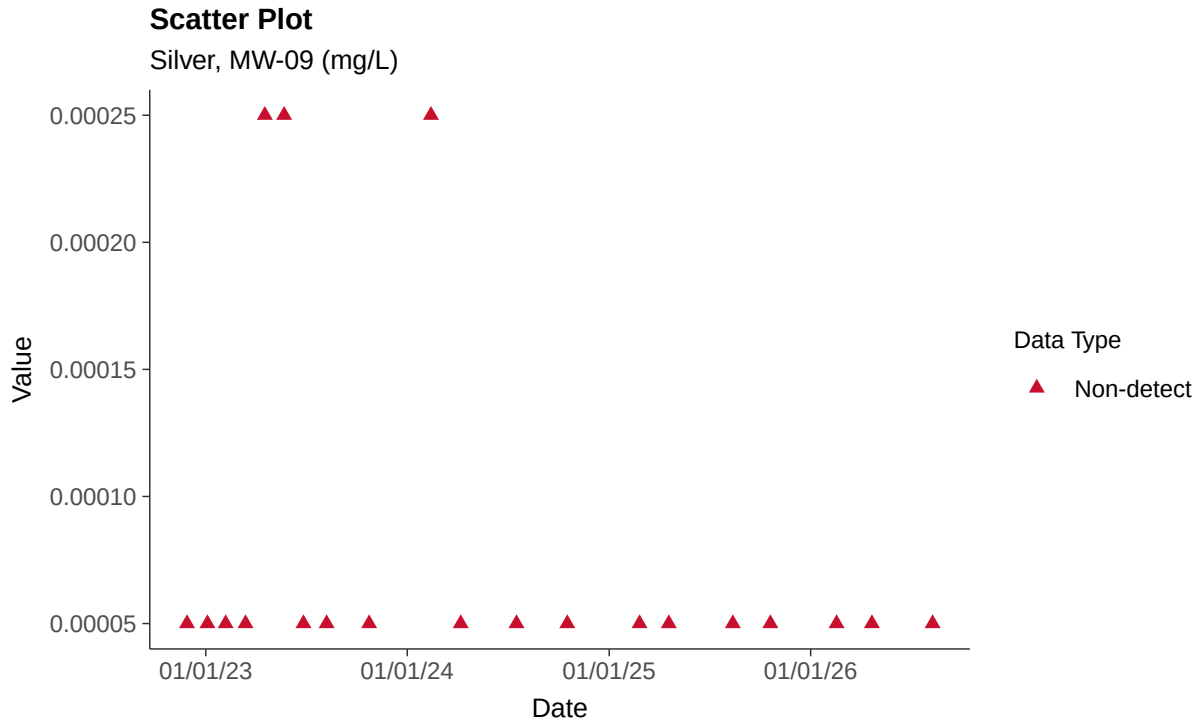
Trend Regression: Piecewise Linear-Linear-Linear

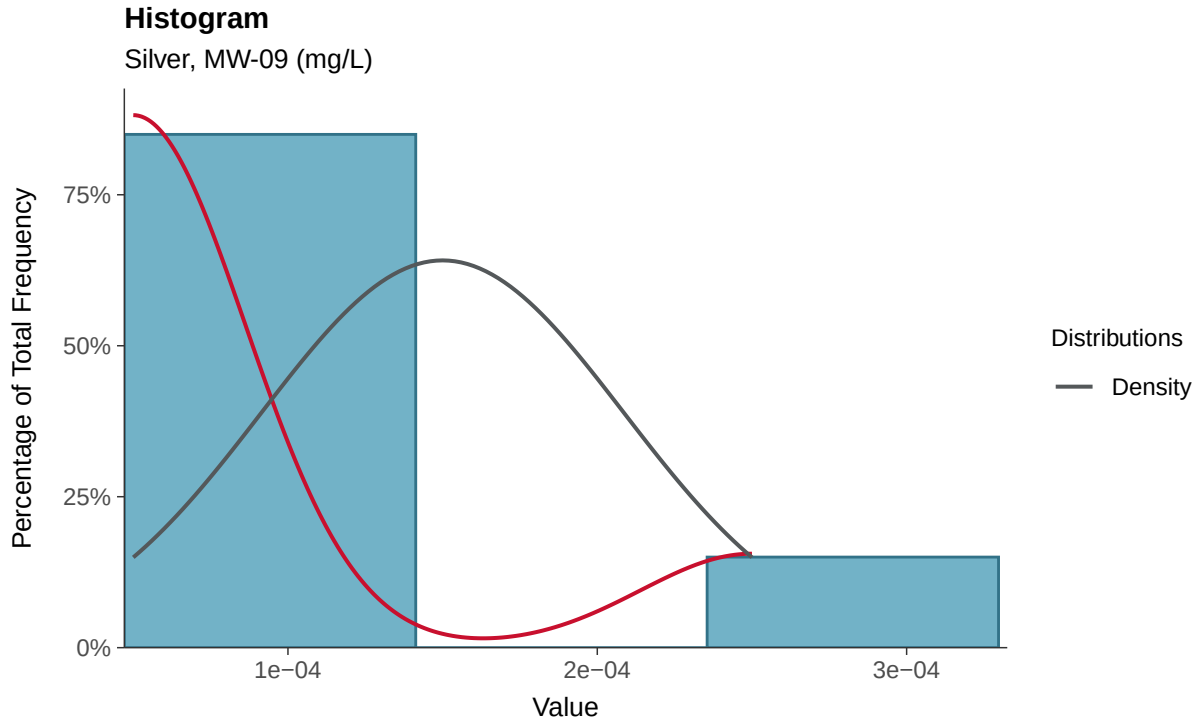
Nickel, MW-09 (mg/L)



Part 115: Silver, MW-09

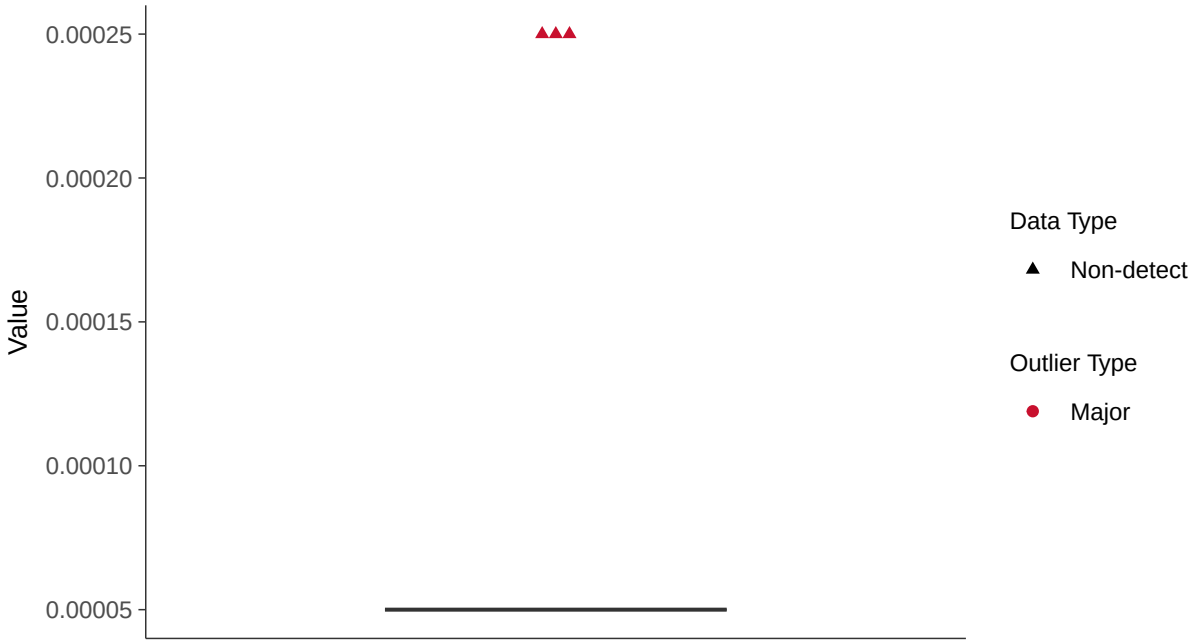
ID: 19_2_5_123





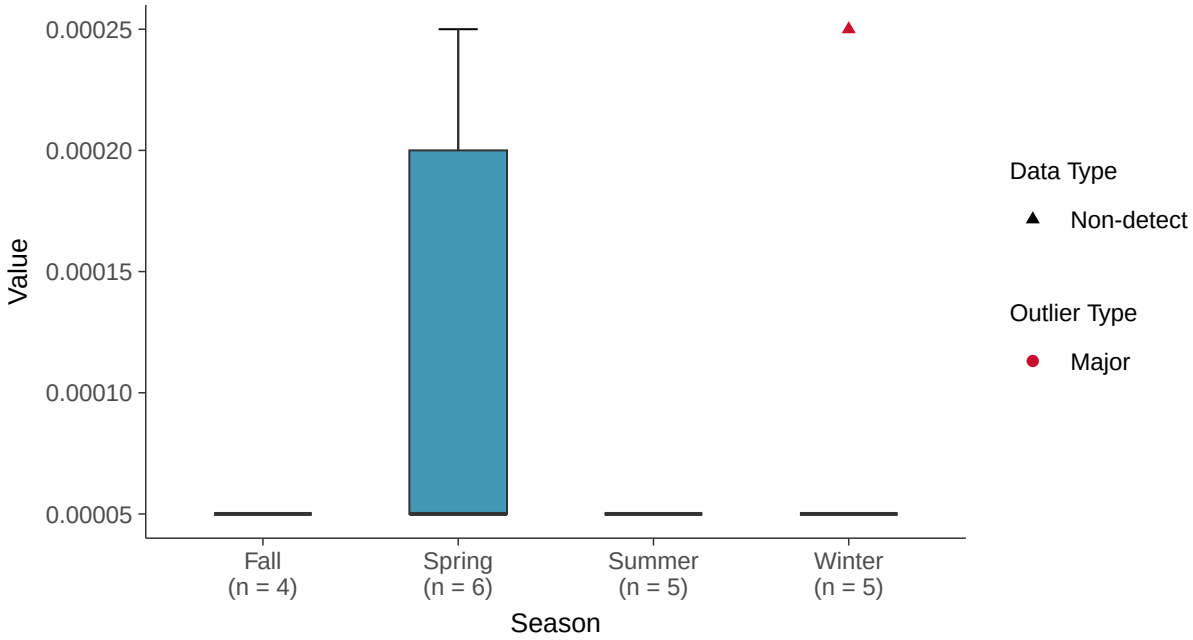
Boxplot

Silver, MW-09 (mg/L)



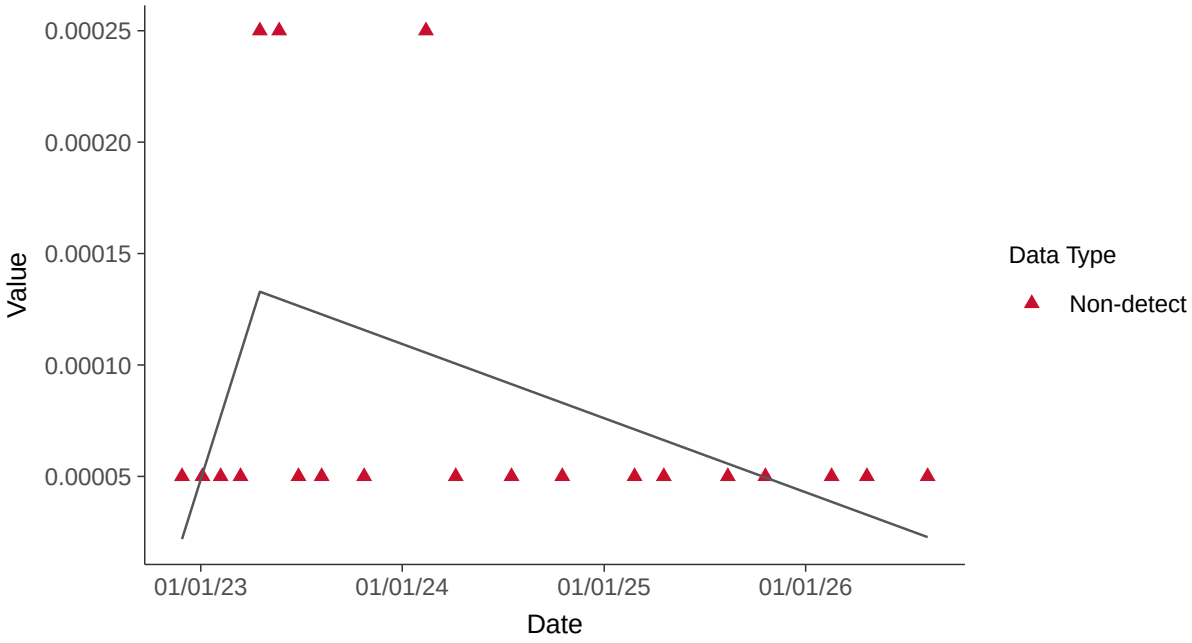
Boxplot by Season

Silver, MW-09 (mg/L)



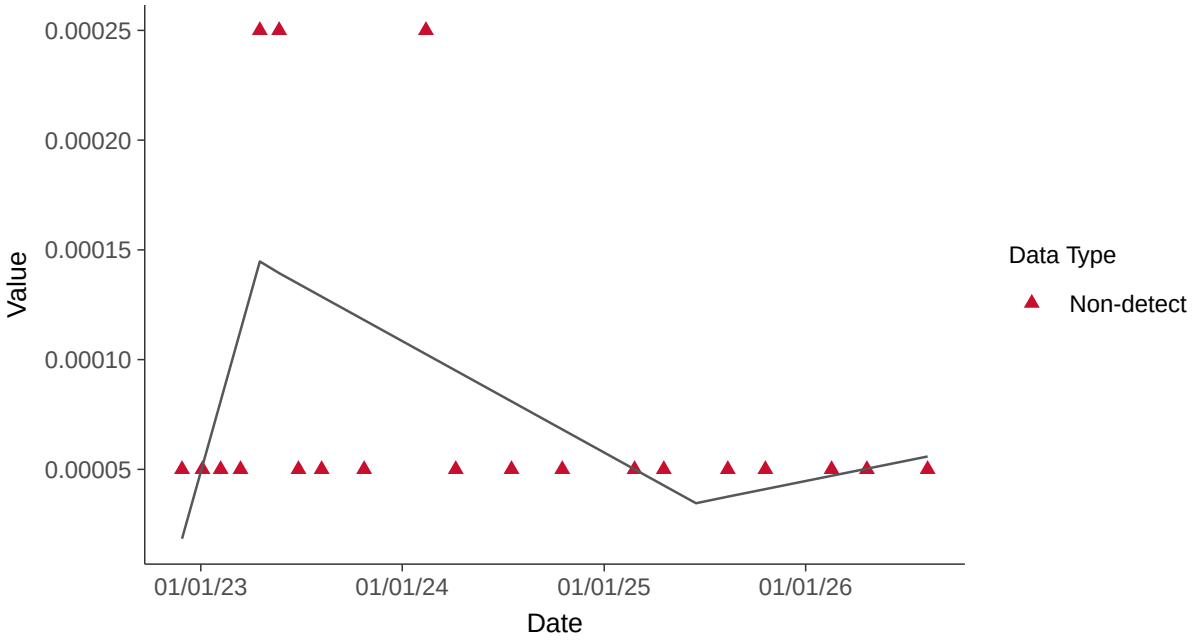
Trend Regression: Piecewise Linear-Linear

Silver, MW-09 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Silver, MW-09 (mg/L)

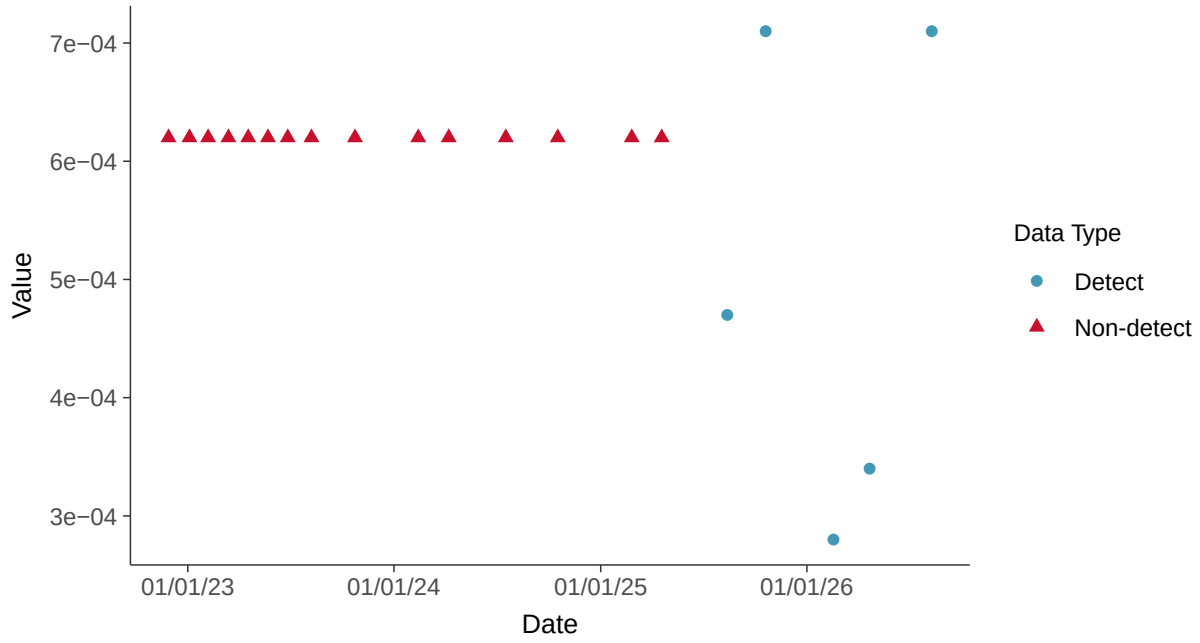


Part 115: Vanadium, MW-09

ID: 19_2_5_128

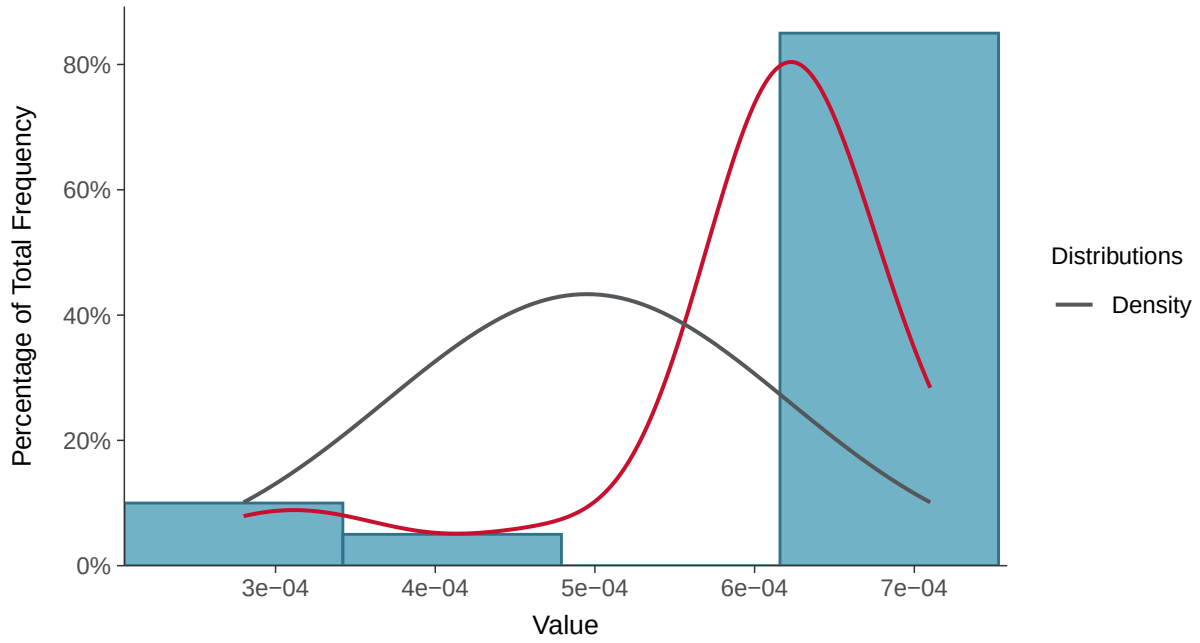
Scatter Plot

Vanadium, MW-09 (mg/L)



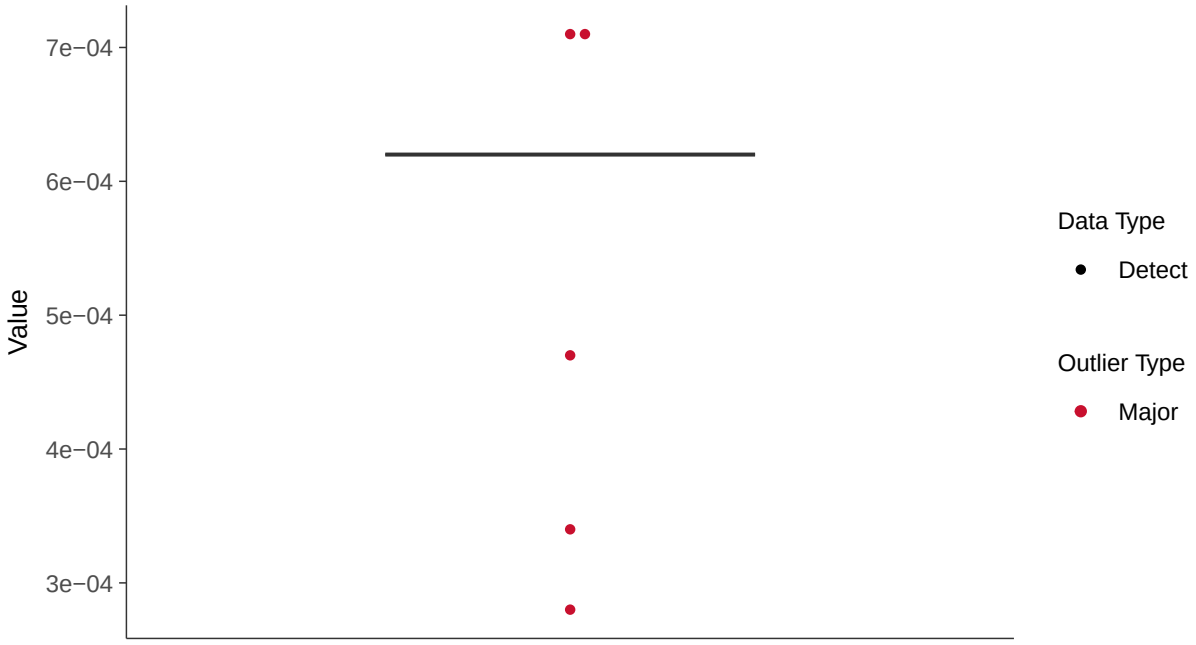
Histogram

Vanadium, MW-09 (mg/L)



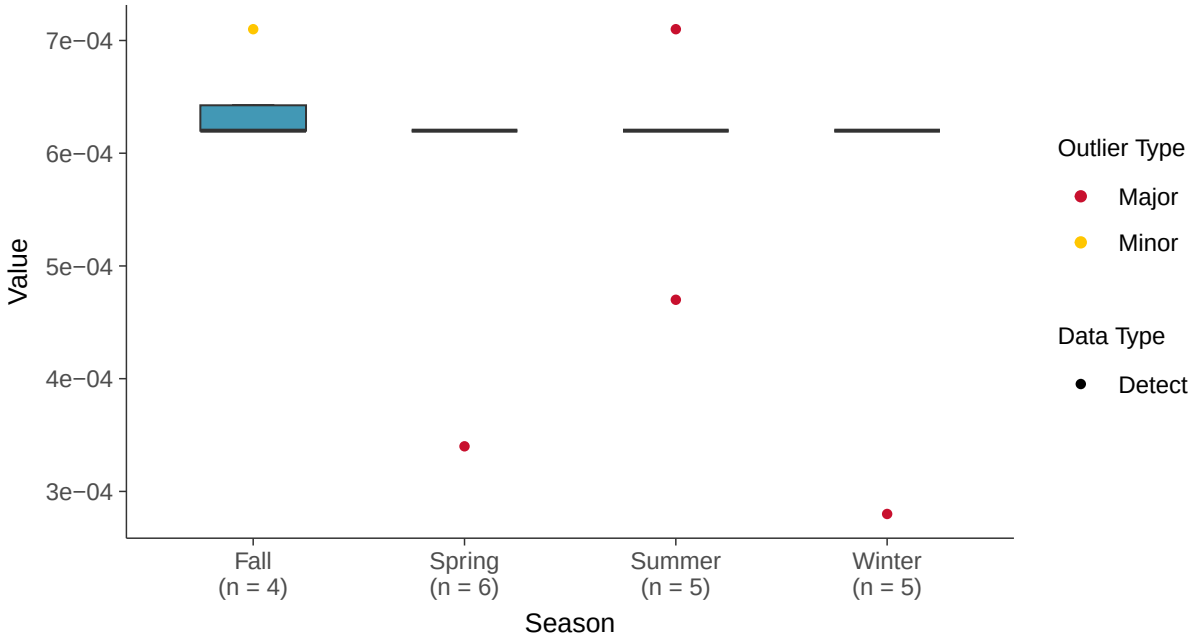
Boxplot

Vanadium, MW-09 (mg/L)



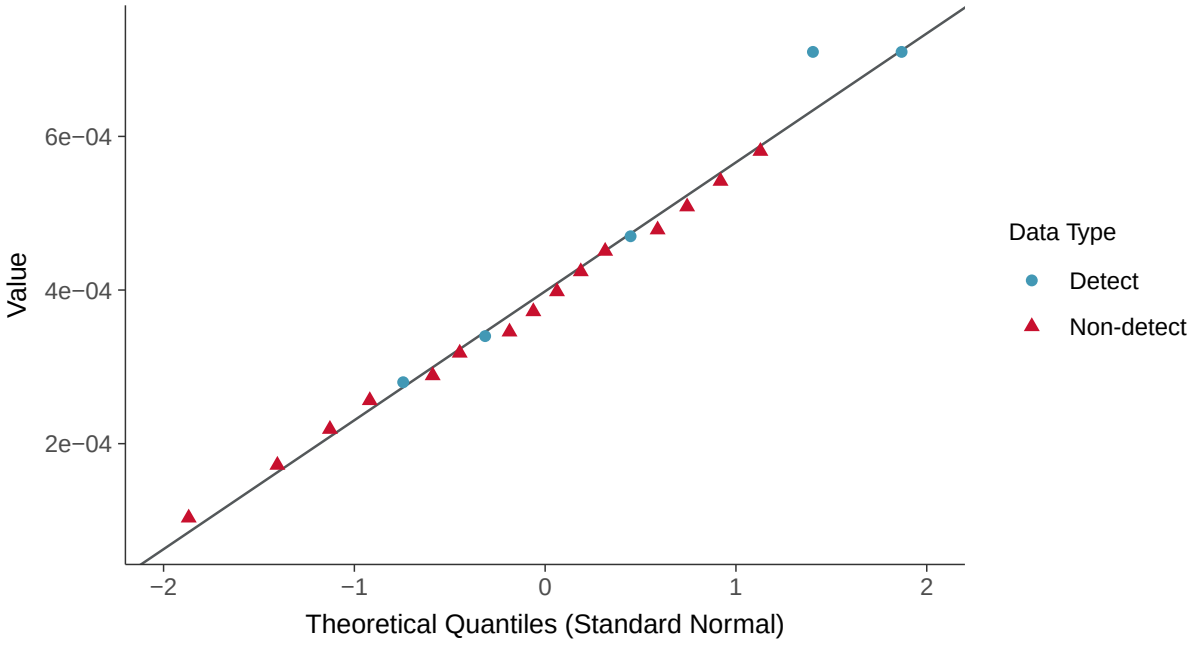
Boxplot by Season

Vanadium, MW-09 (mg/L)



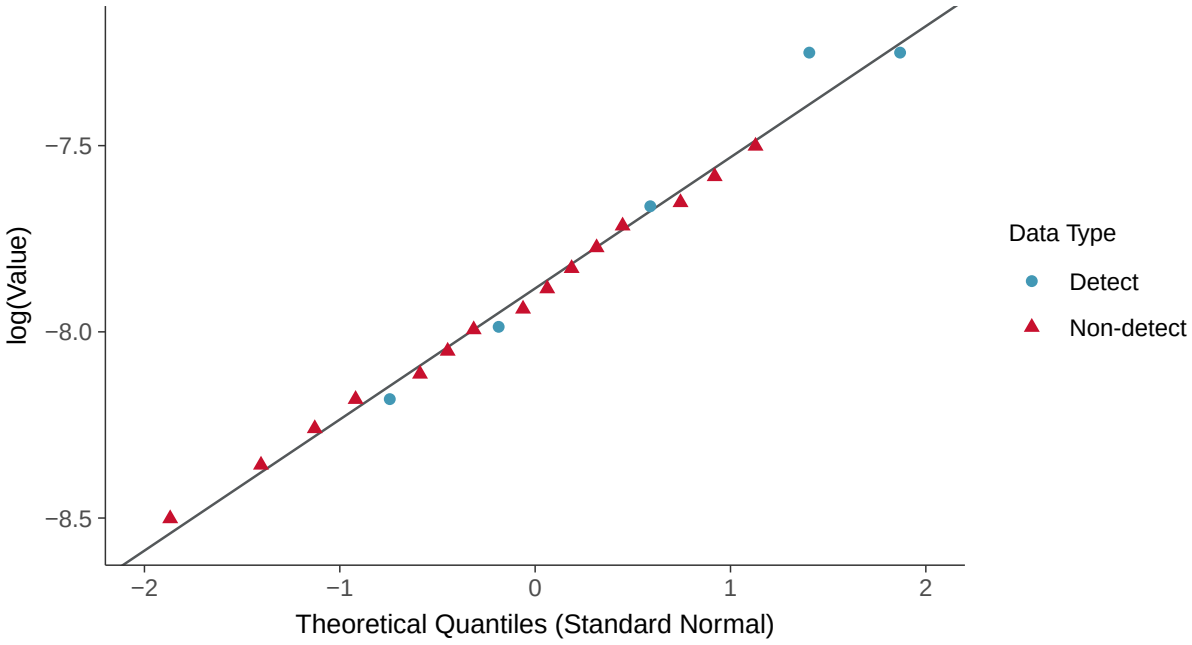
Normal Q-Q plot using ROS Imputed Estimates

Vanadium, MW-09 (mg/L)



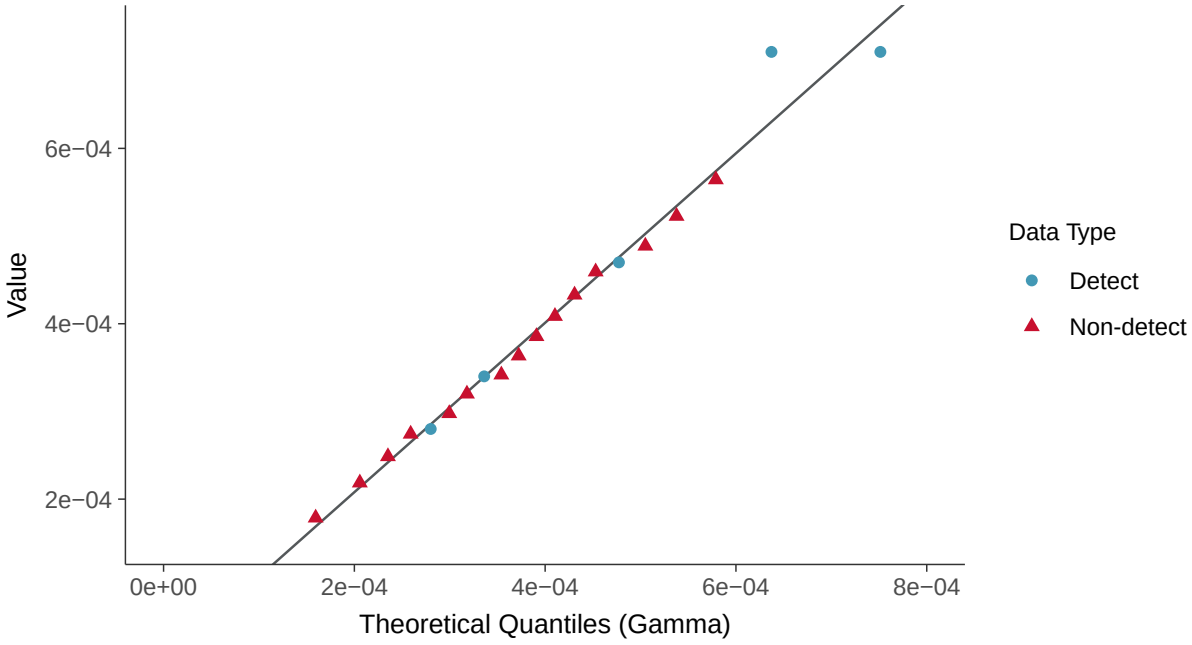
Lognormal Q-Q plot using ROS Imputed Estimates

Vanadium, MW-09 (mg/L)



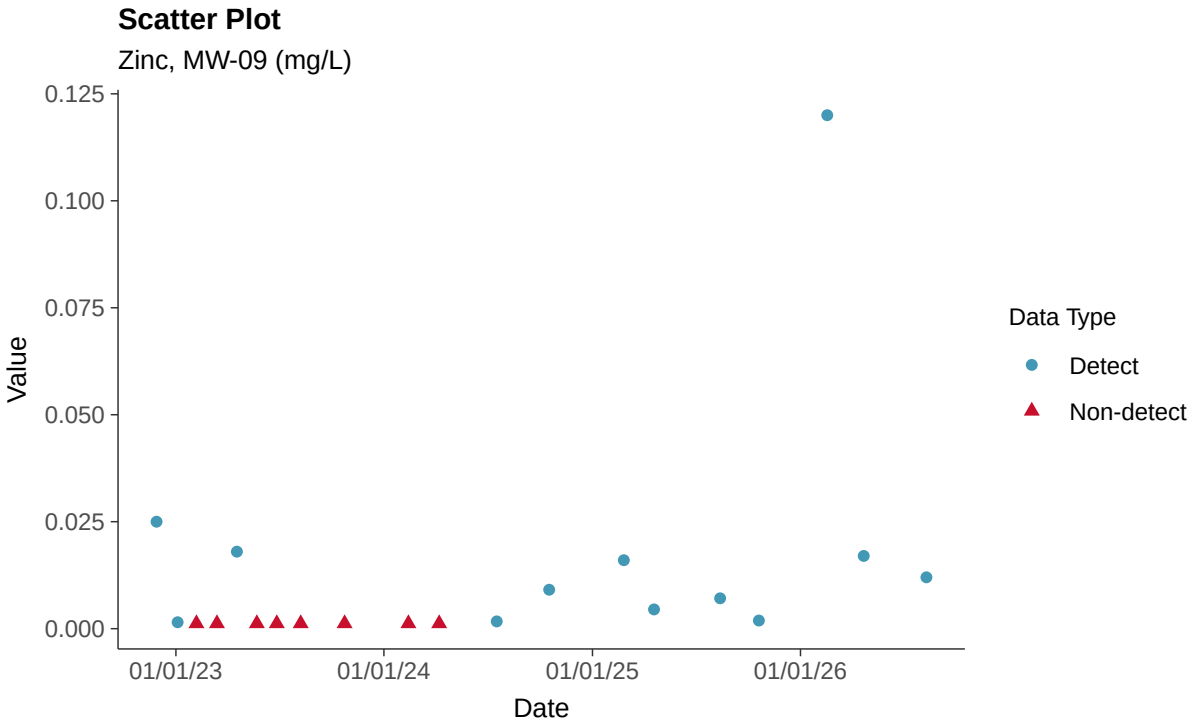
Gamma Q-Q plot using ROS Imputed Estimates

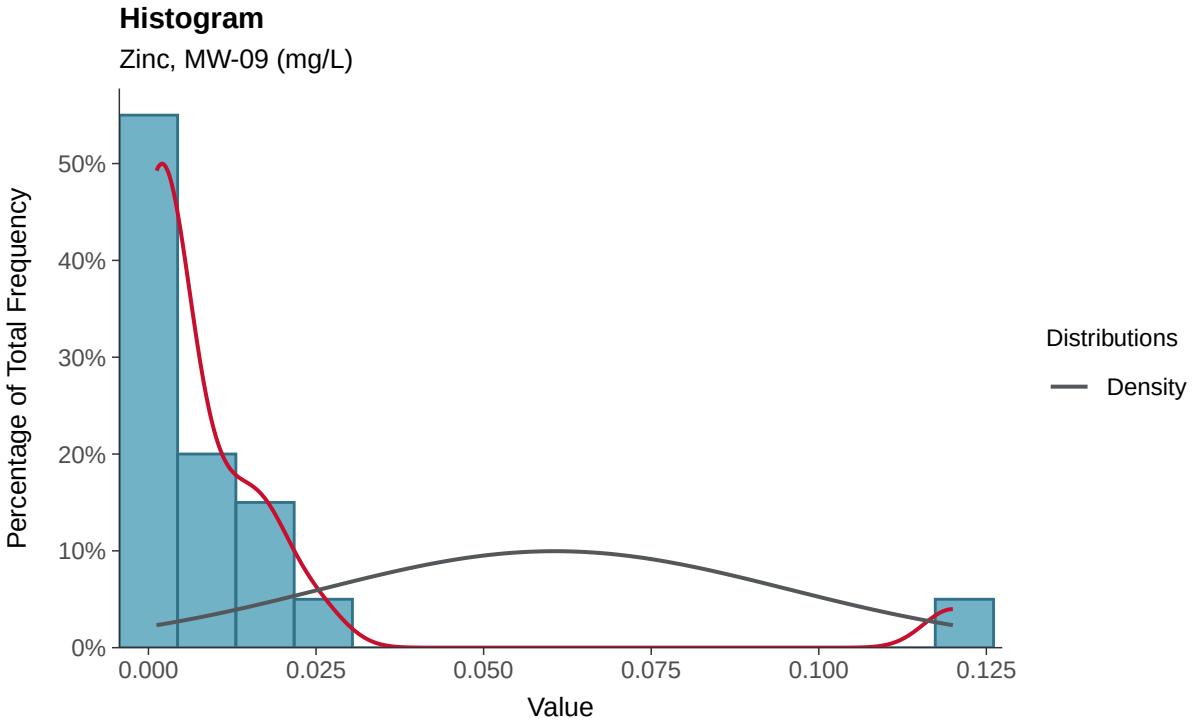
Vanadium, MW-09 (mg/L)



Part 115: Zinc, MW-09

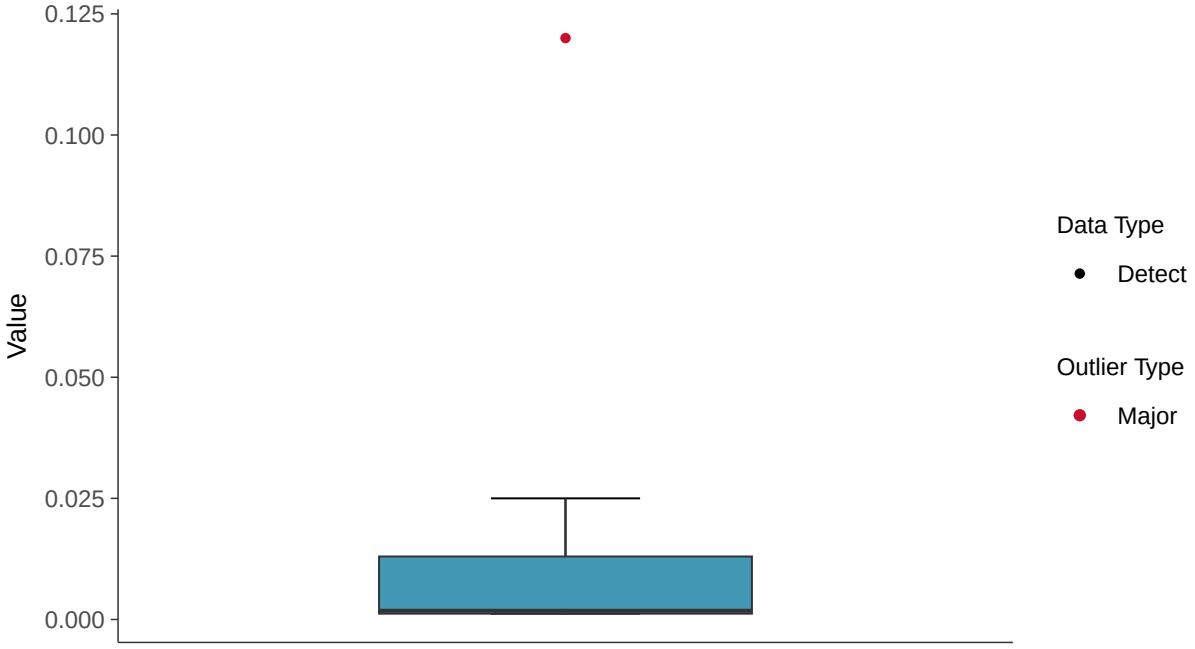
ID: 19_2_5_129





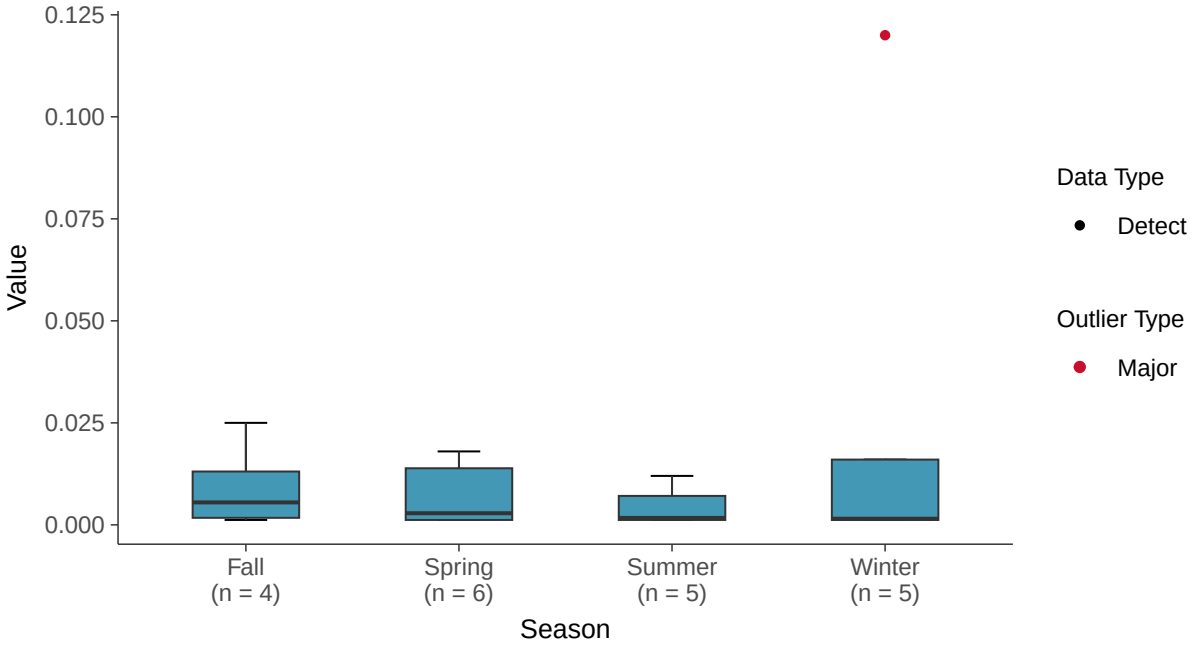
Boxplot

Zinc, MW-09 (mg/L)



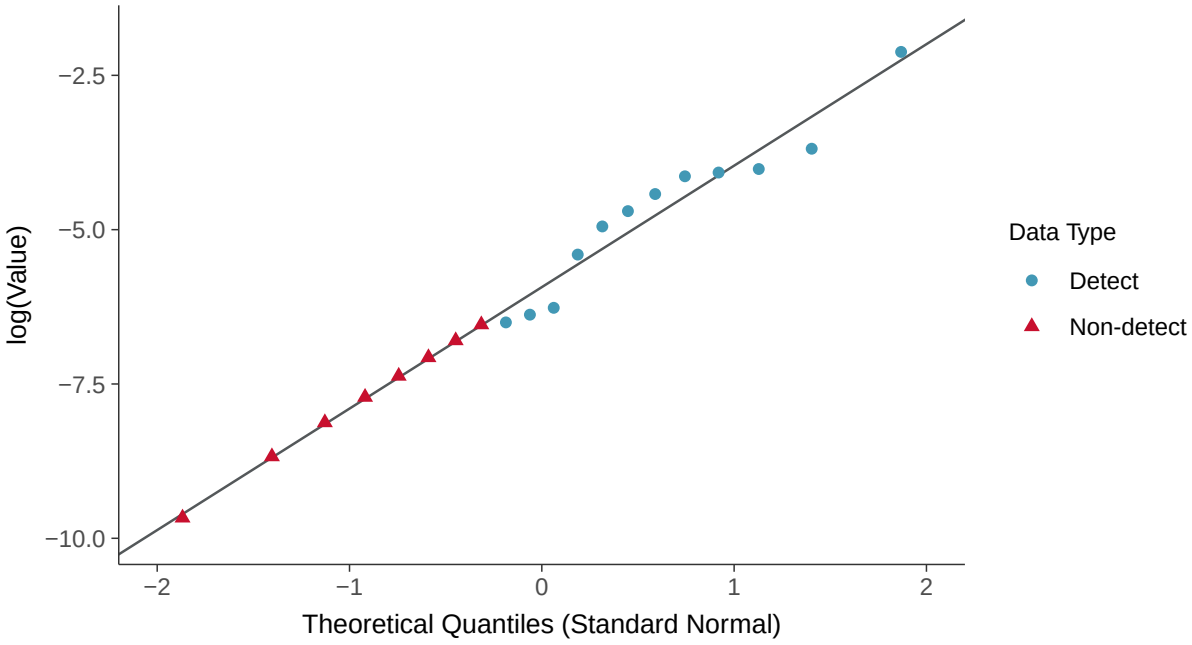
Boxplot by Season

Zinc, MW-09 (mg/L)



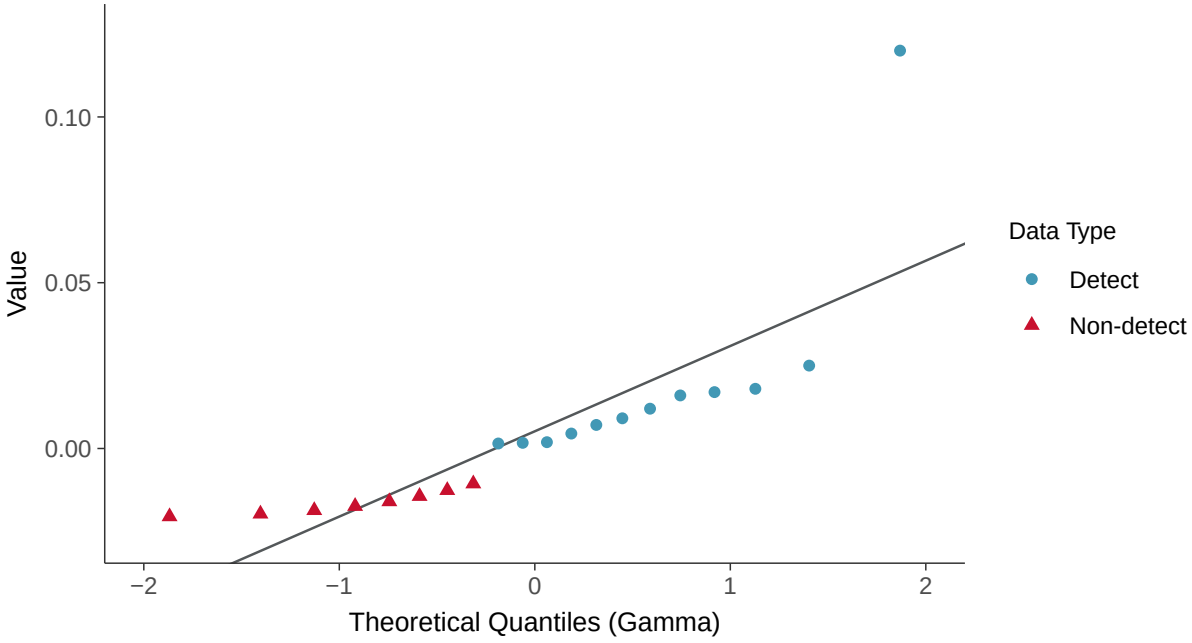
Lognormal Q-Q plot using ROS Imputed Estimates

Zinc, MW-09 (mg/L)



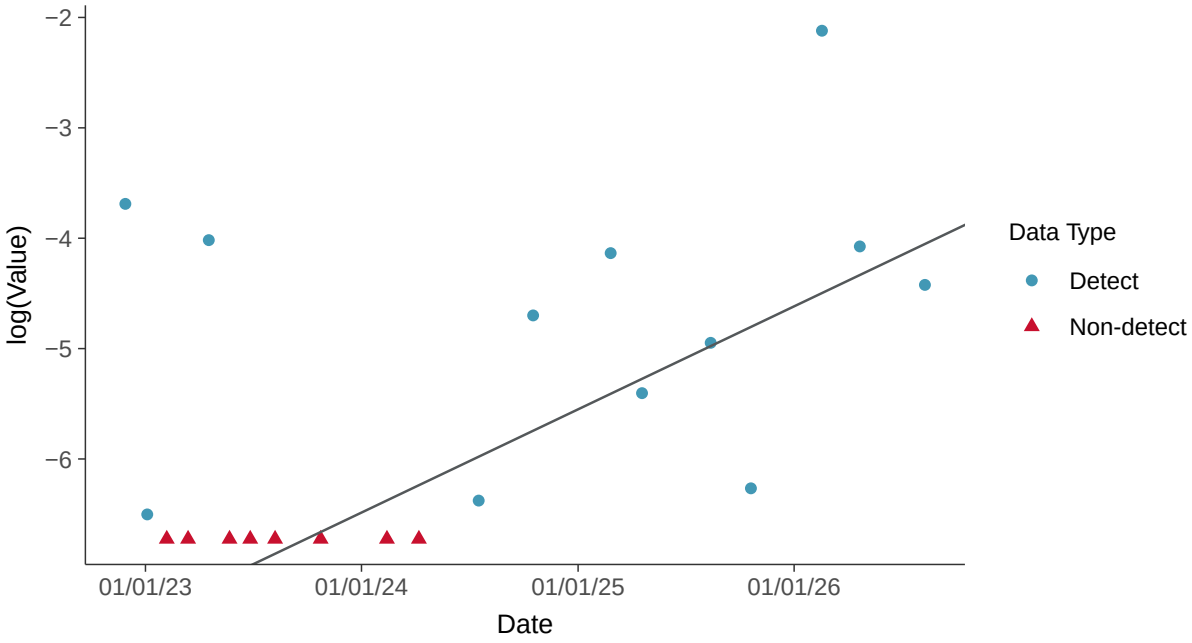
Gamma Q-Q plot using ROS Imputed Estimates

Zinc, MW-09 (mg/L)



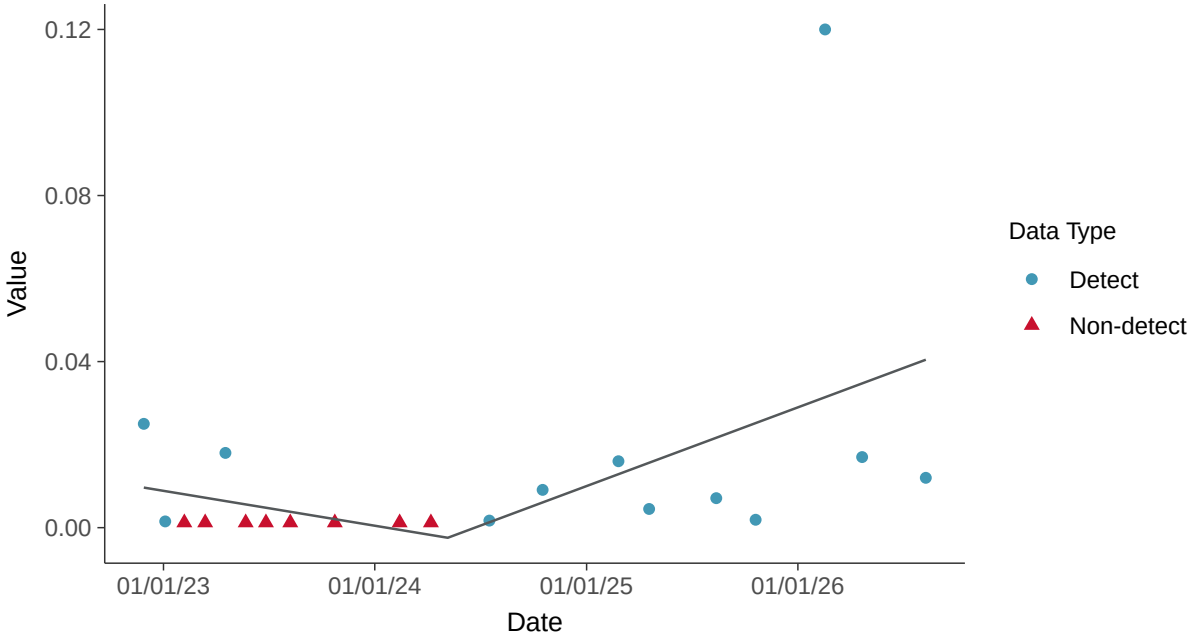
Trend Regression: Lognormal MLE

Zinc, MW-09 (mg/L)



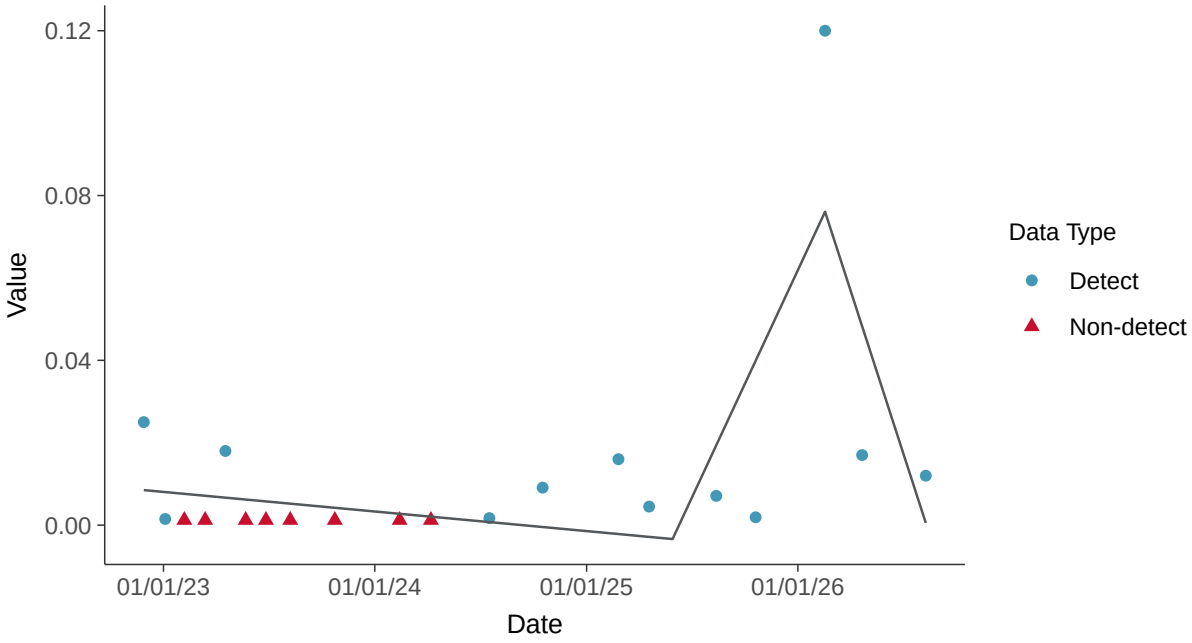
Trend Regression: Piecewise Linear-Linear

Zinc, MW-09 (mg/L)



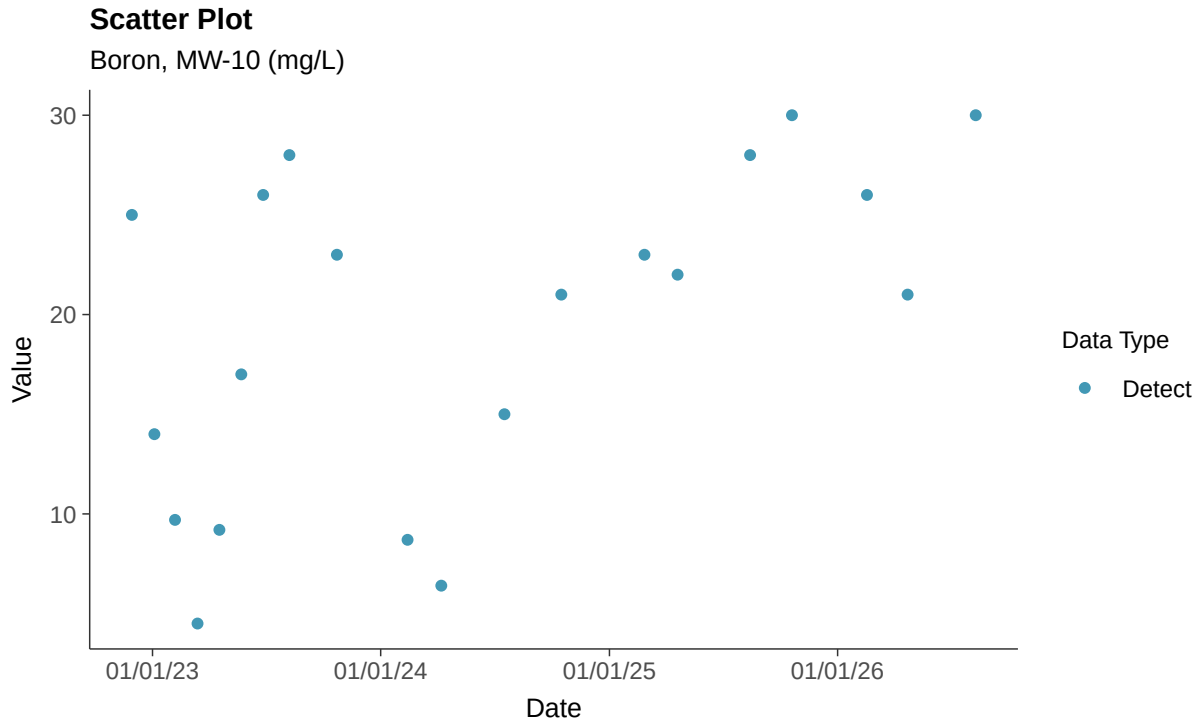
Trend Regression: Piecewise Linear-Linear-Linear

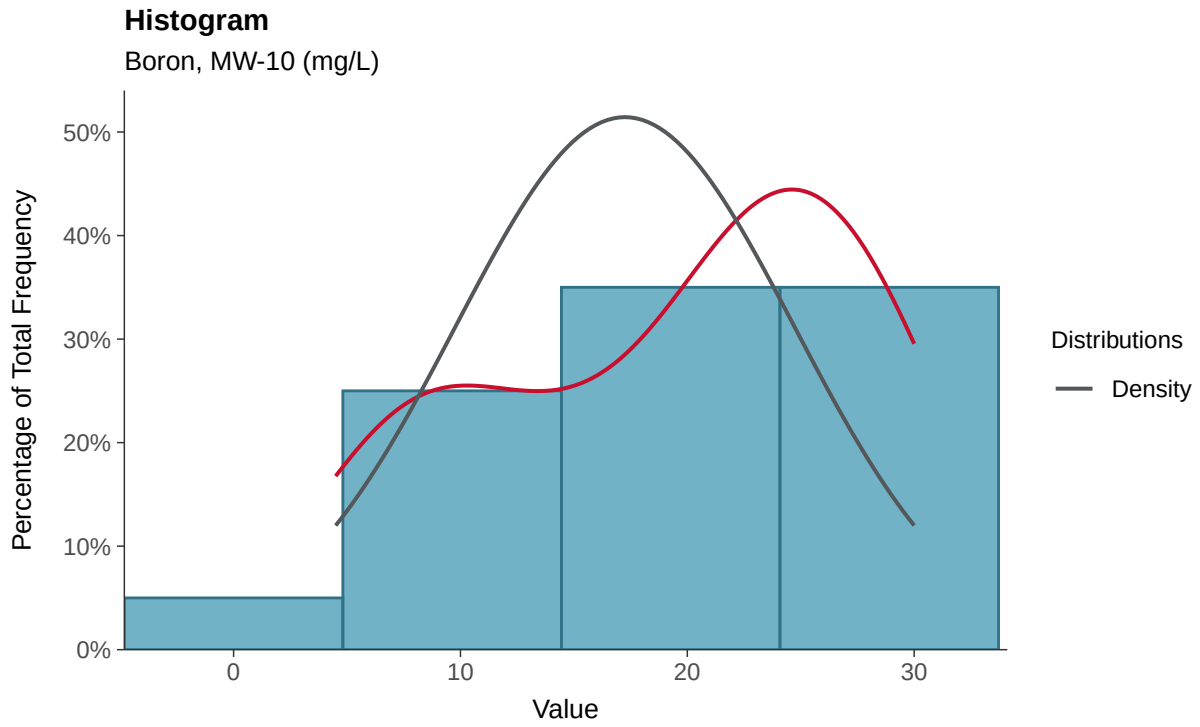
Zinc, MW-09 (mg/L)



Appendix III: Boron, MW-10

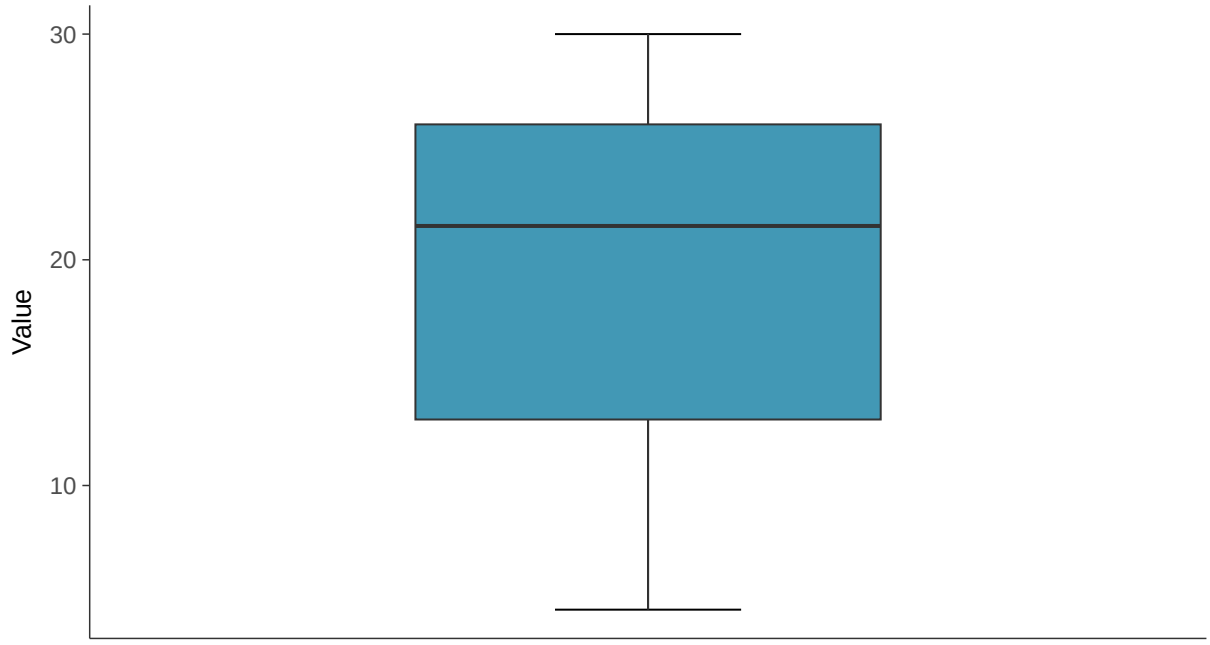
ID: 20_3_3_105





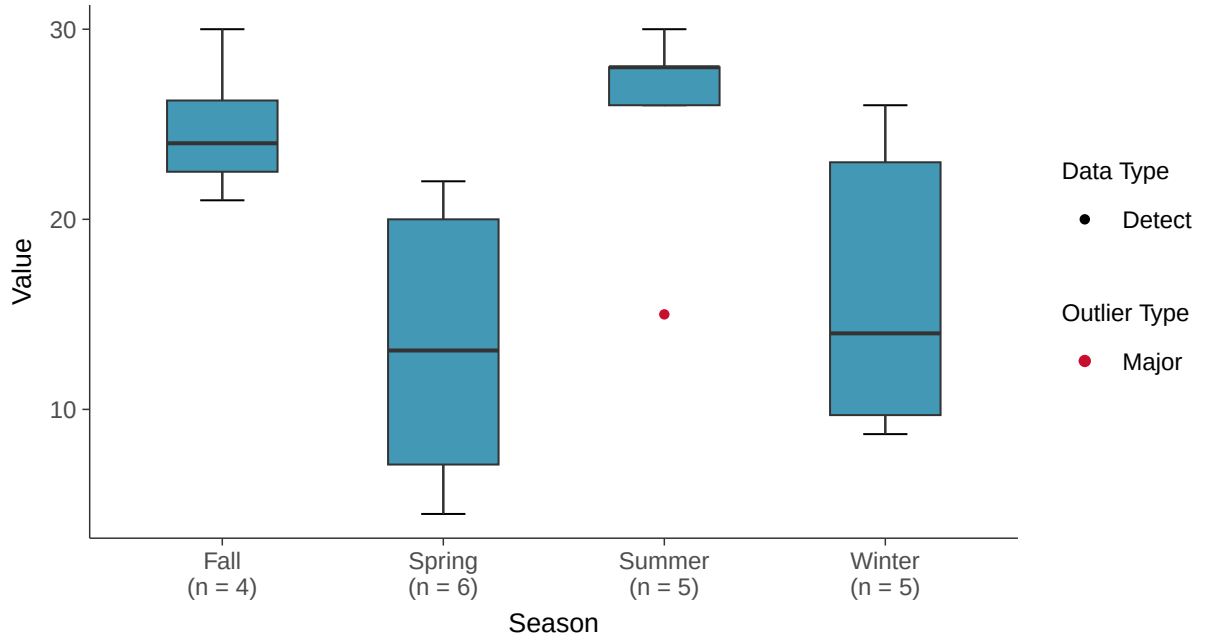
Boxplot

Boron, MW-10 (mg/L)



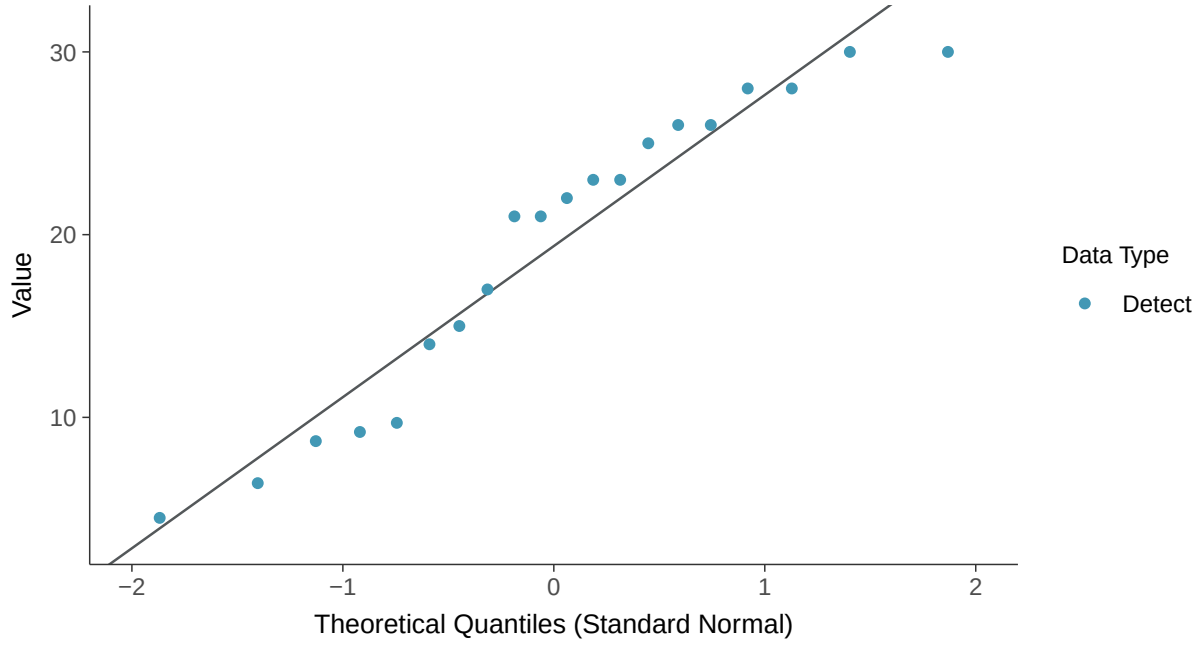
Boxplot by Season

Boron, MW-10 (mg/L)



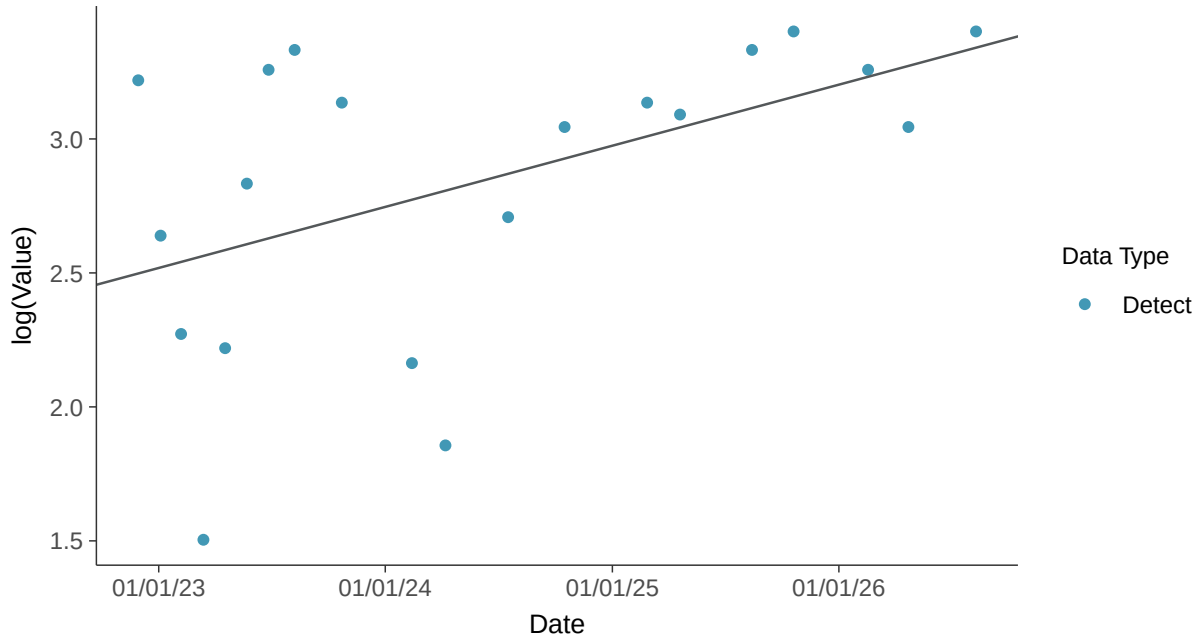
Normal Q-Q plot

Boron, MW-10 (mg/L)



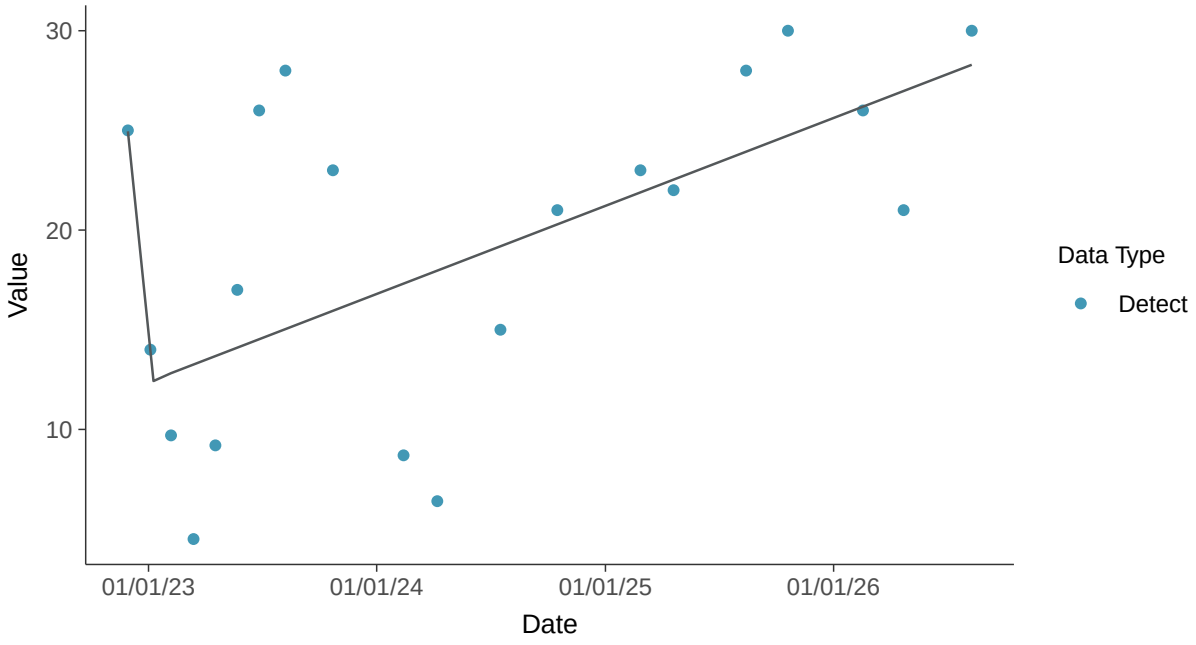
Trend Regression: Lognormal MLE

Boron, MW-10 (mg/L)



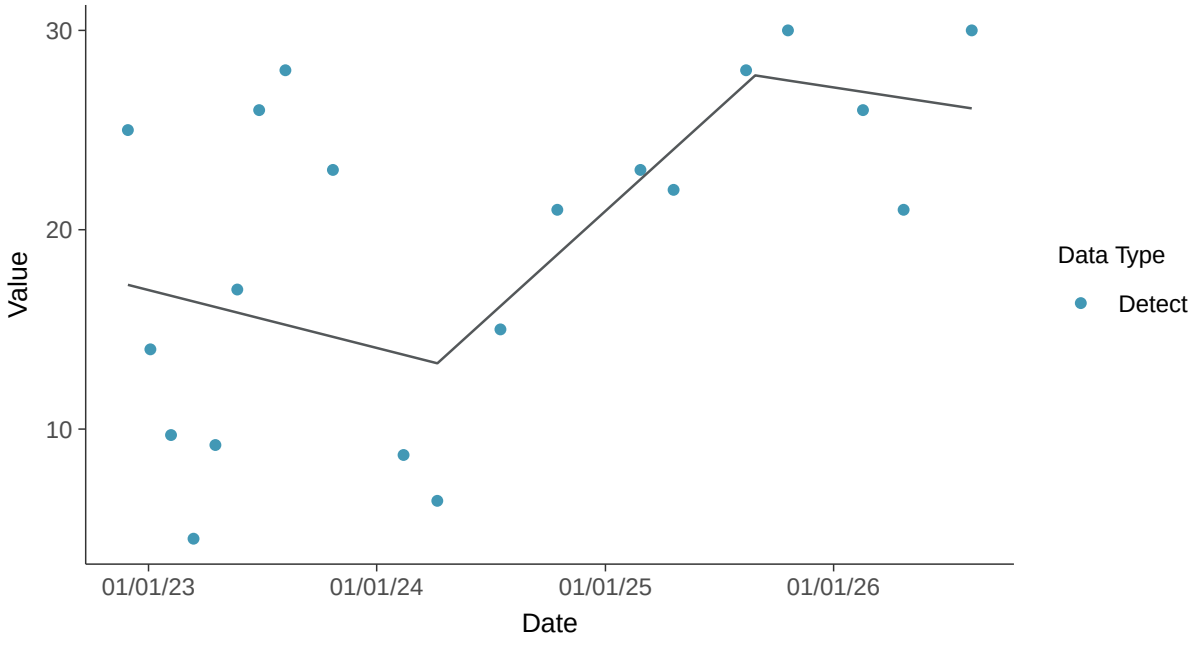
Trend Regression: Piecewise Linear-Linear

Boron, MW-10 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Boron, MW-10 (mg/L)

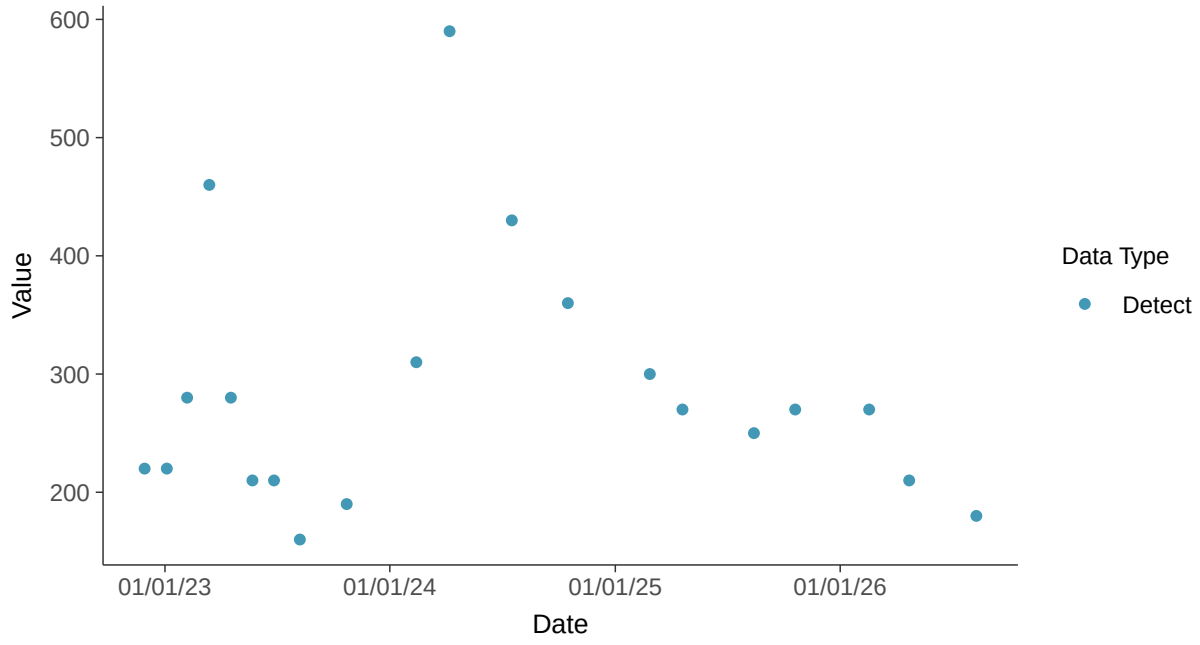


Appendix III: Calcium, MW-10

ID: 20_3_3_107

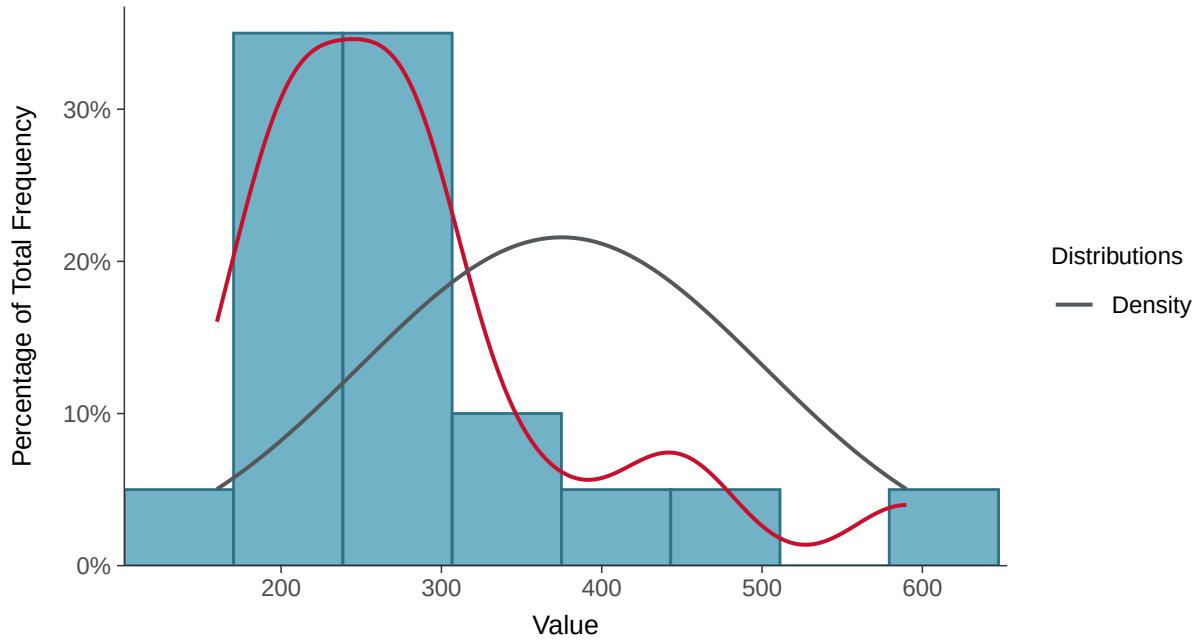
Scatter Plot

Calcium, MW-10 (mg/L)



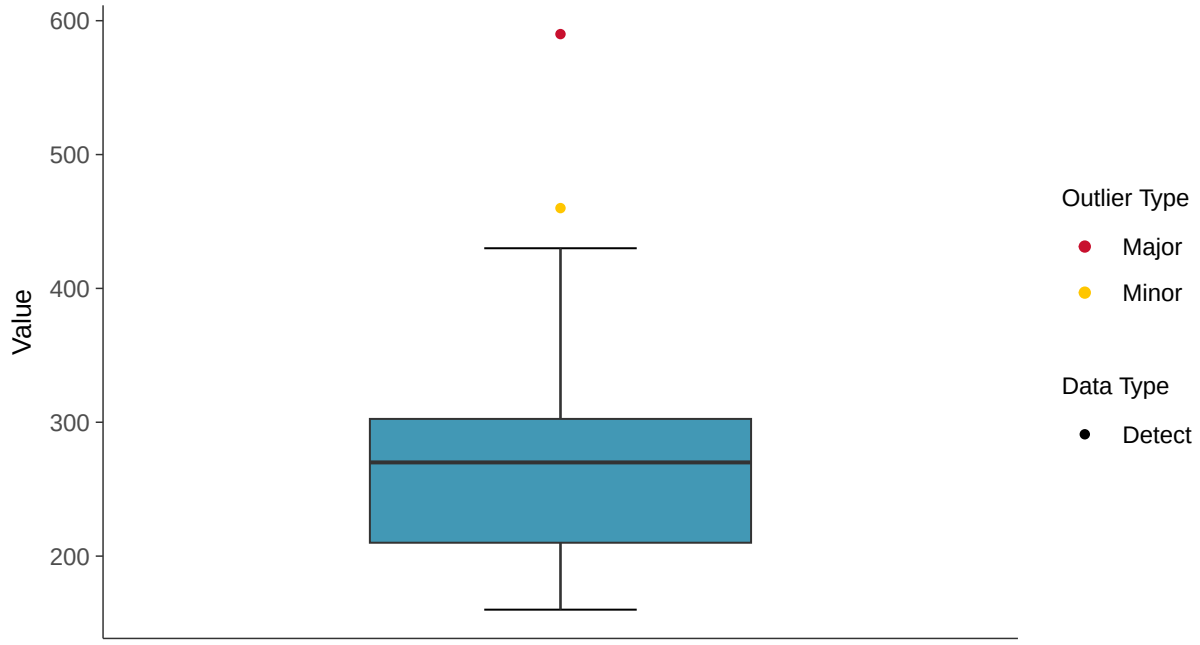
Histogram

Calcium, MW-10 (mg/L)



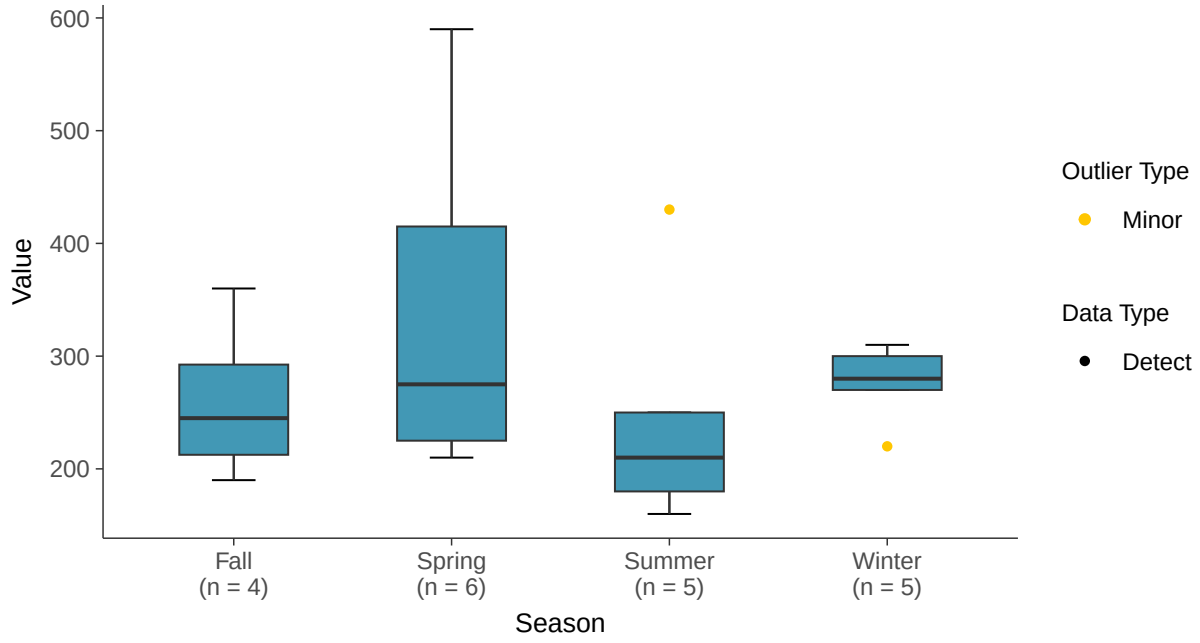
Boxplot

Calcium, MW-10 (mg/L)



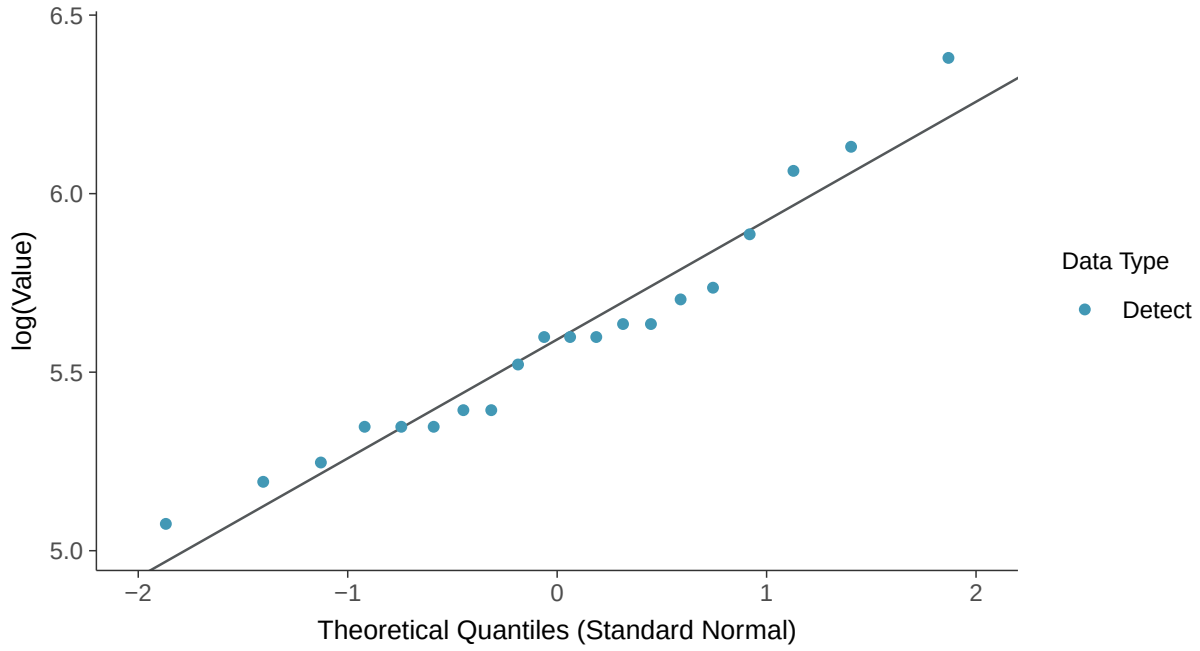
Boxplot by Season

Calcium, MW-10 (mg/L)



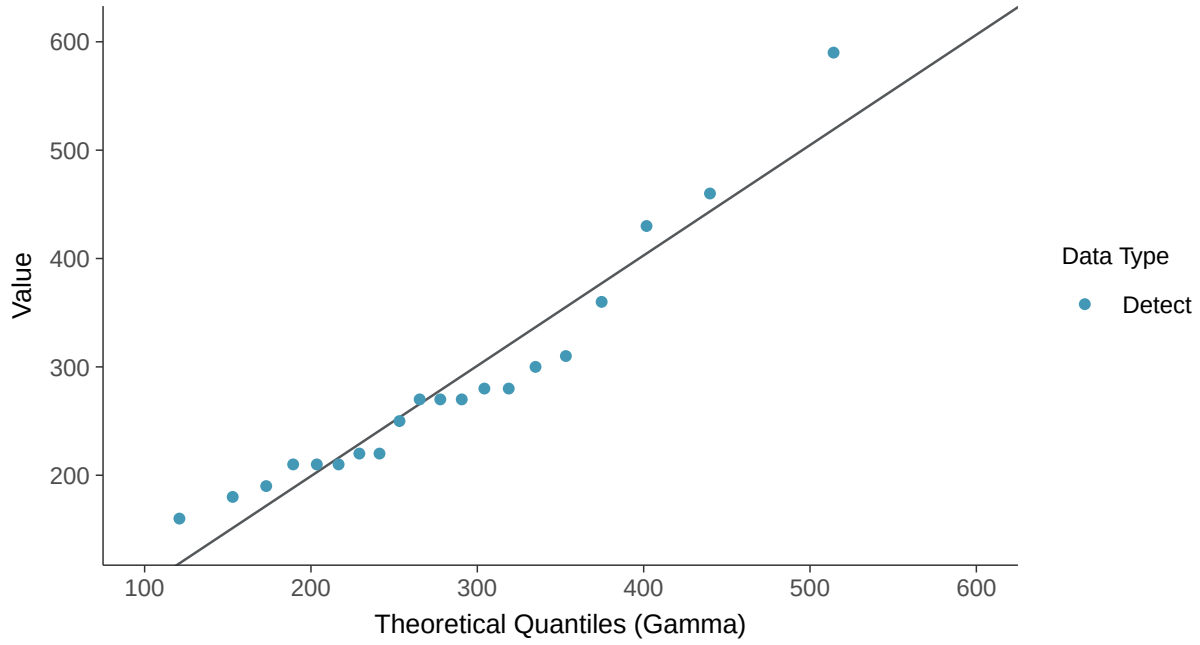
Lognormal Q-Q plot

Calcium, MW-10 (mg/L)



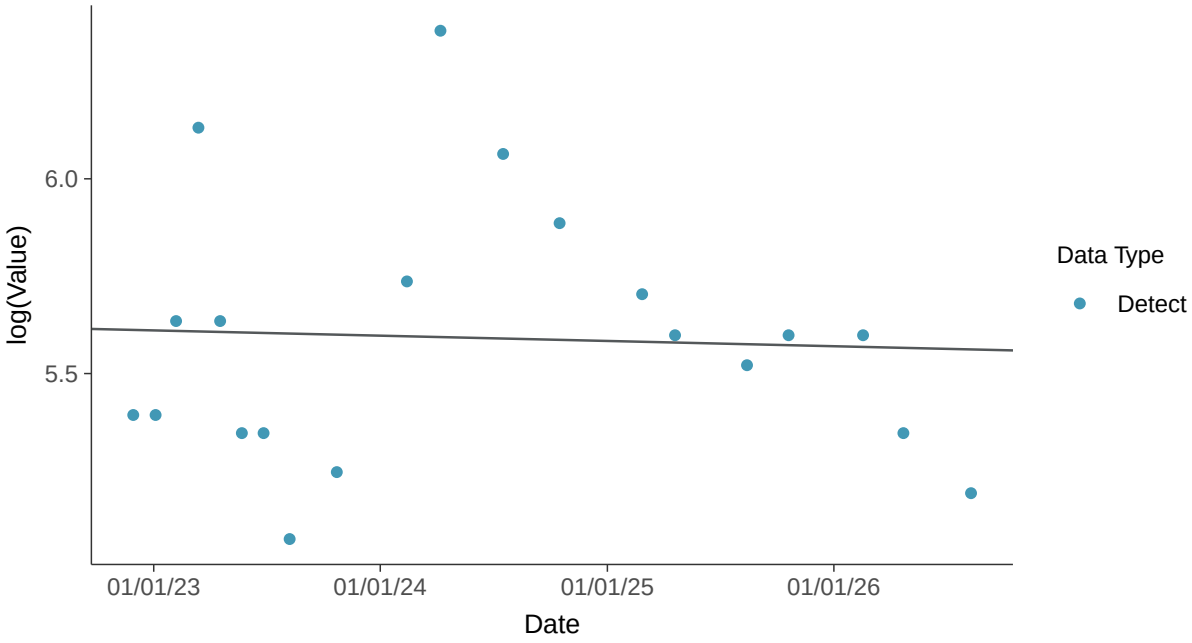
Gamma Q-Q plot

Calcium, MW-10 (mg/L)



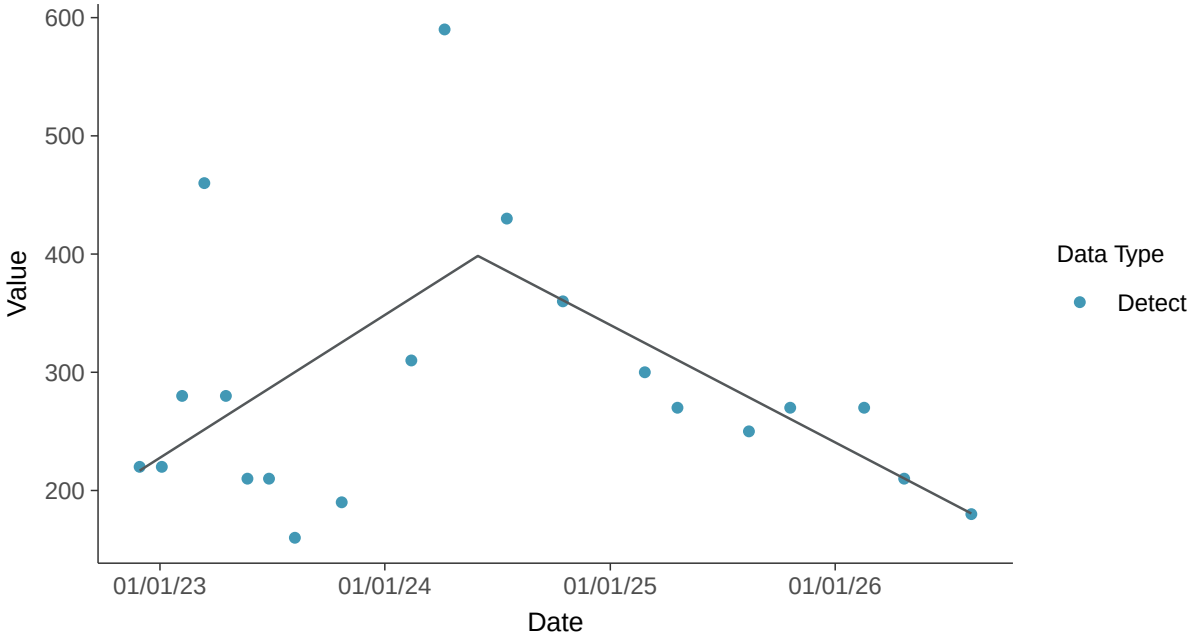
Trend Regression: Lognormal MLE

Calcium, MW-10 (mg/L)



Trend Regression: Piecewise Linear-Linear

Calcium, MW-10 (mg/L)

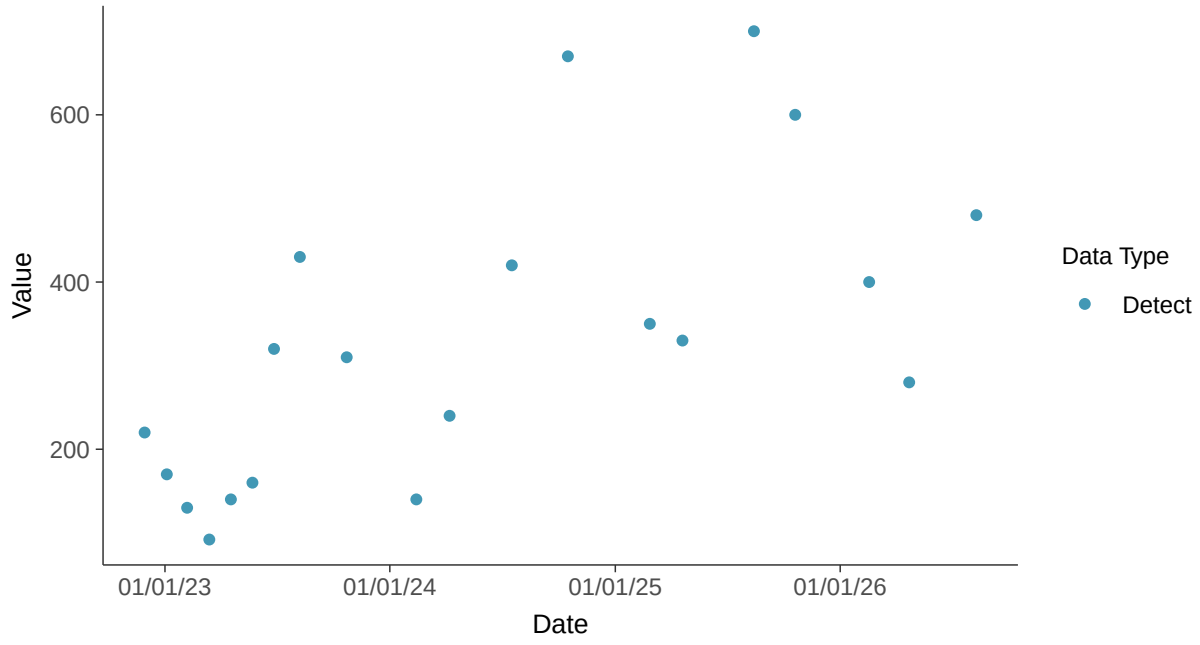


Appendix III: Chloride (as Cl), MW-10

ID: 20_3_3_108

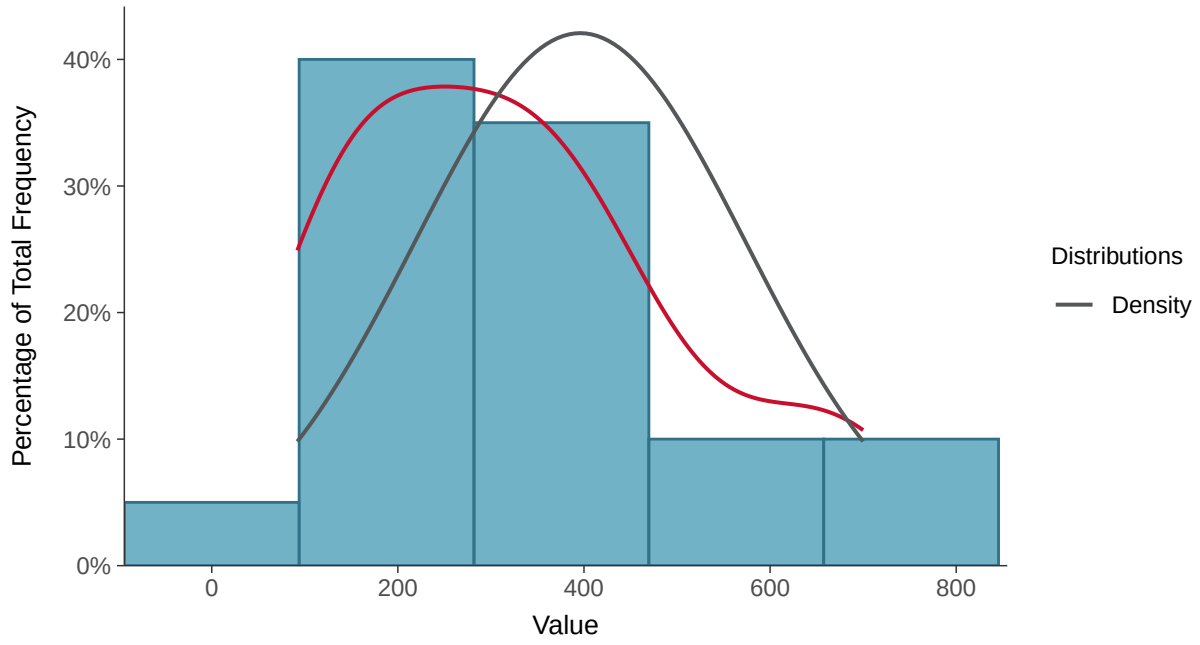
Scatter Plot

Chloride (as Cl), MW-10 (mg/L)



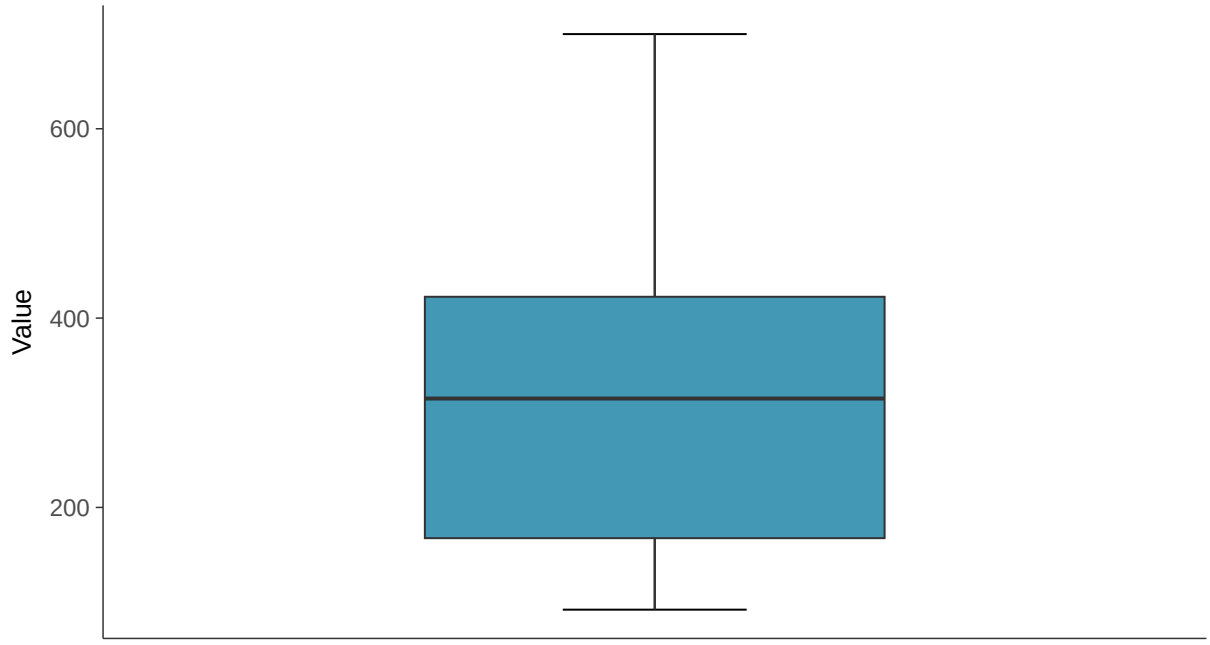
Histogram

Chloride (as Cl), MW-10 (mg/L)



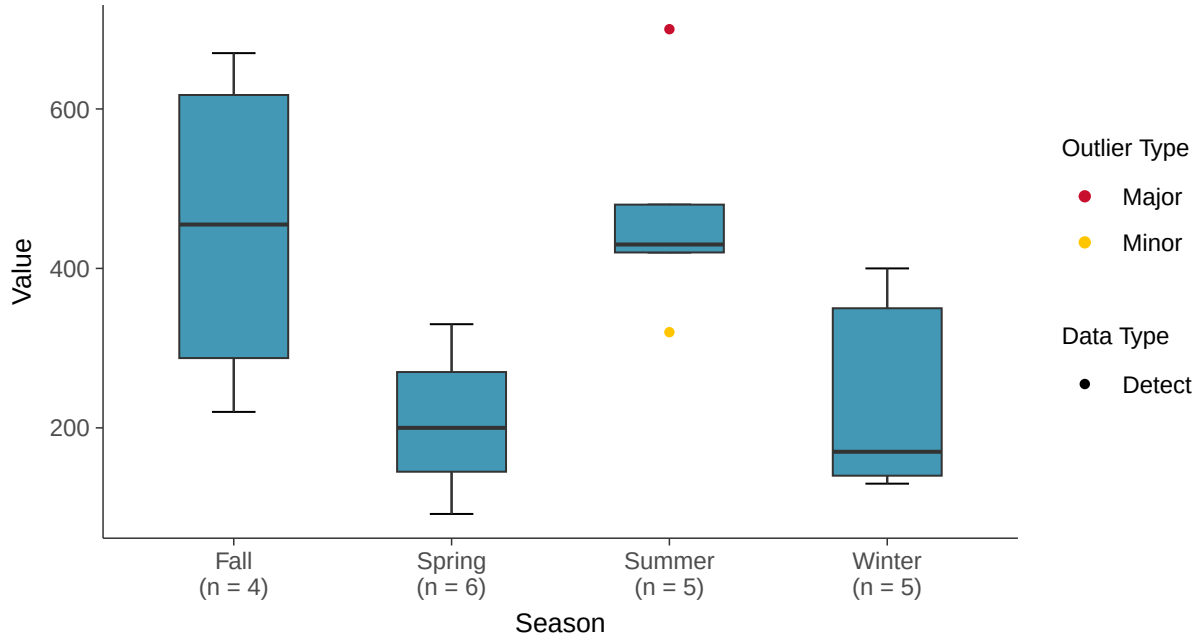
Boxplot

Chloride (as Cl), MW-10 (mg/L)



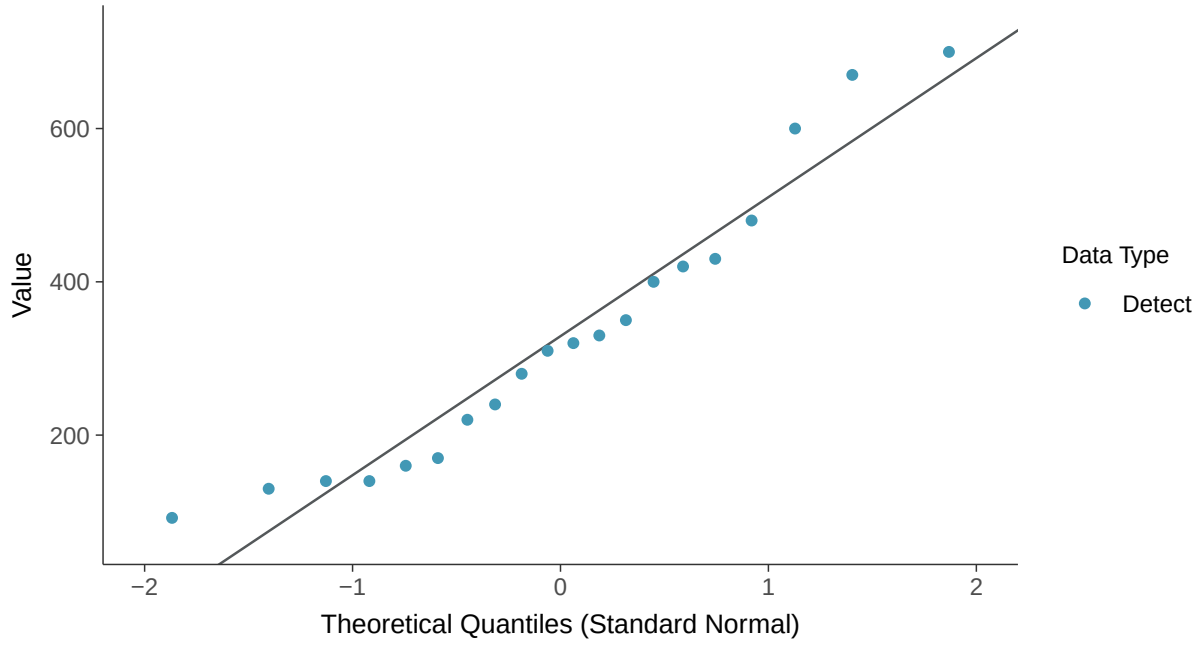
Boxplot by Season

Chloride (as Cl), MW-10 (mg/L)



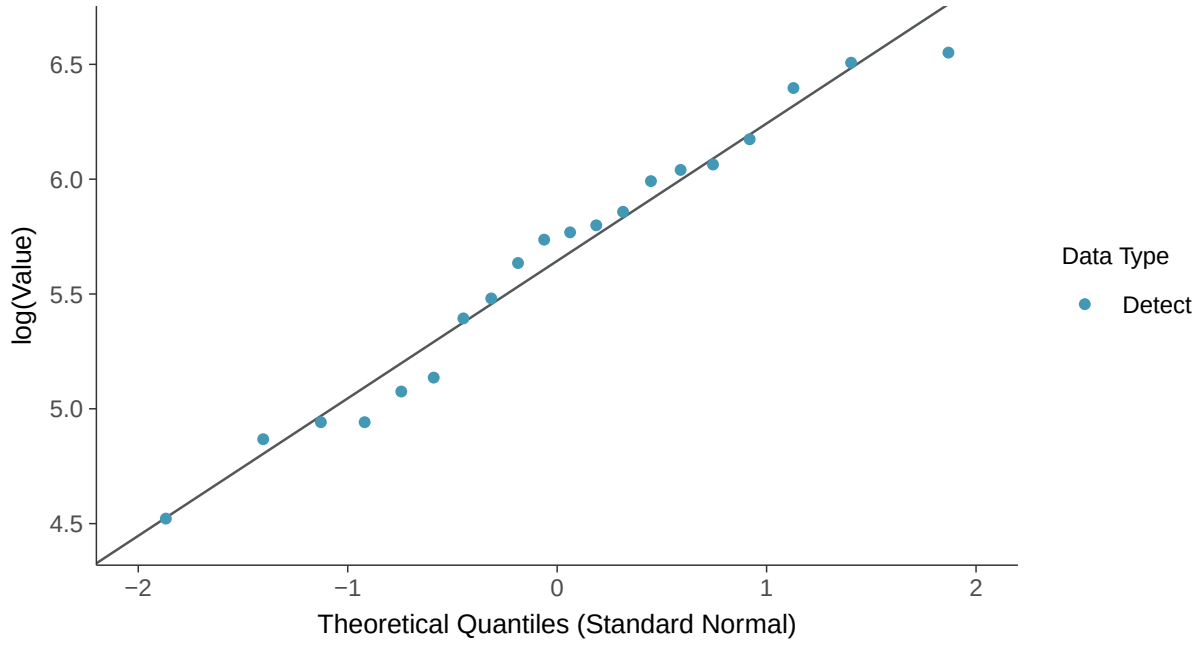
Normal Q-Q plot

Chloride (as Cl), MW-10 (mg/L)



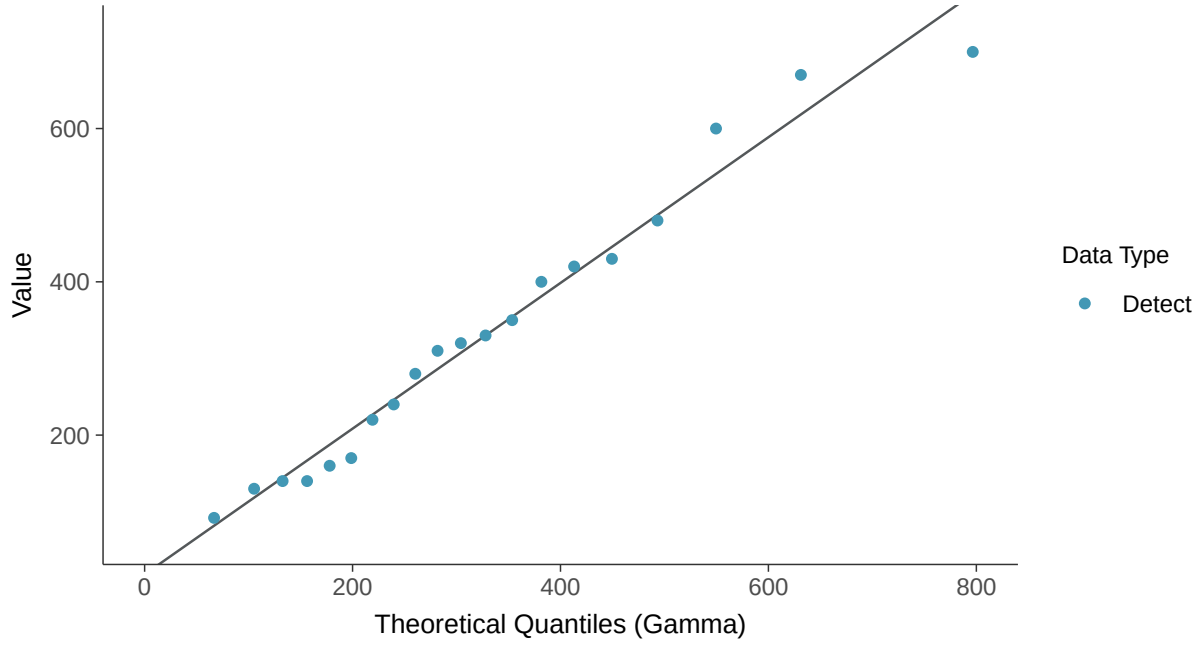
Lognormal Q-Q plot

Chloride (as Cl), MW-10 (mg/L)



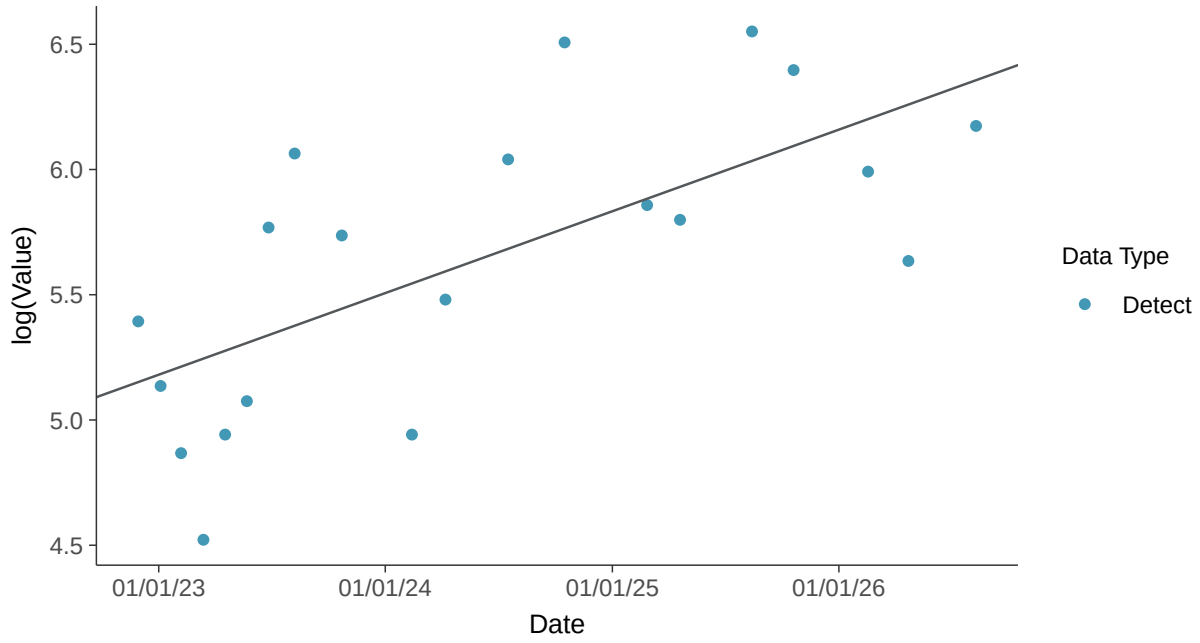
Gamma Q-Q plot

Chloride (as Cl), MW-10 (mg/L)



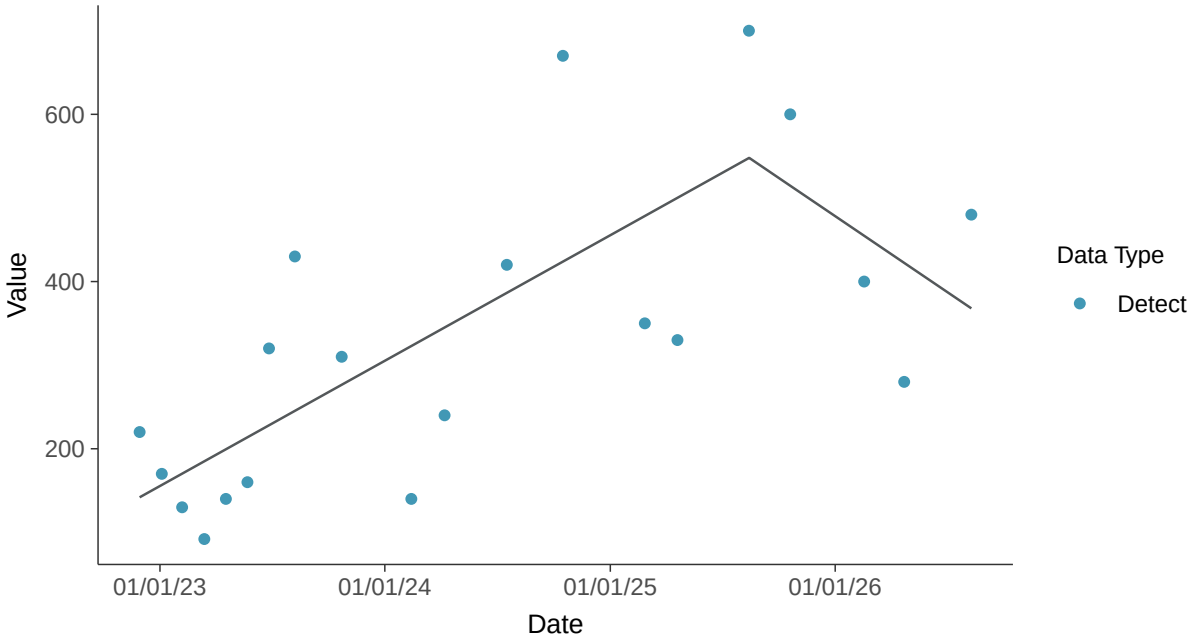
Trend Regression: Lognormal MLE

Chloride (as Cl), MW-10 (mg/L)



Trend Regression: Piecewise Linear-Linear

Chloride (as Cl), MW-10 (mg/L)

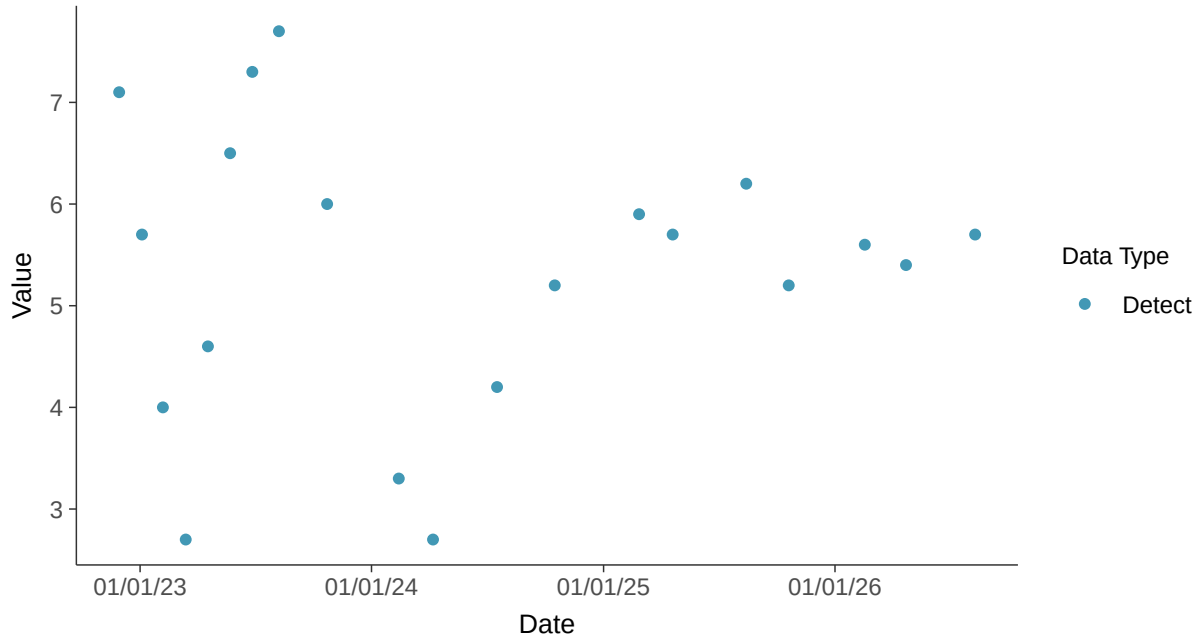


Appendix III: Fluoride, MW-10

ID: 20_3_3_112

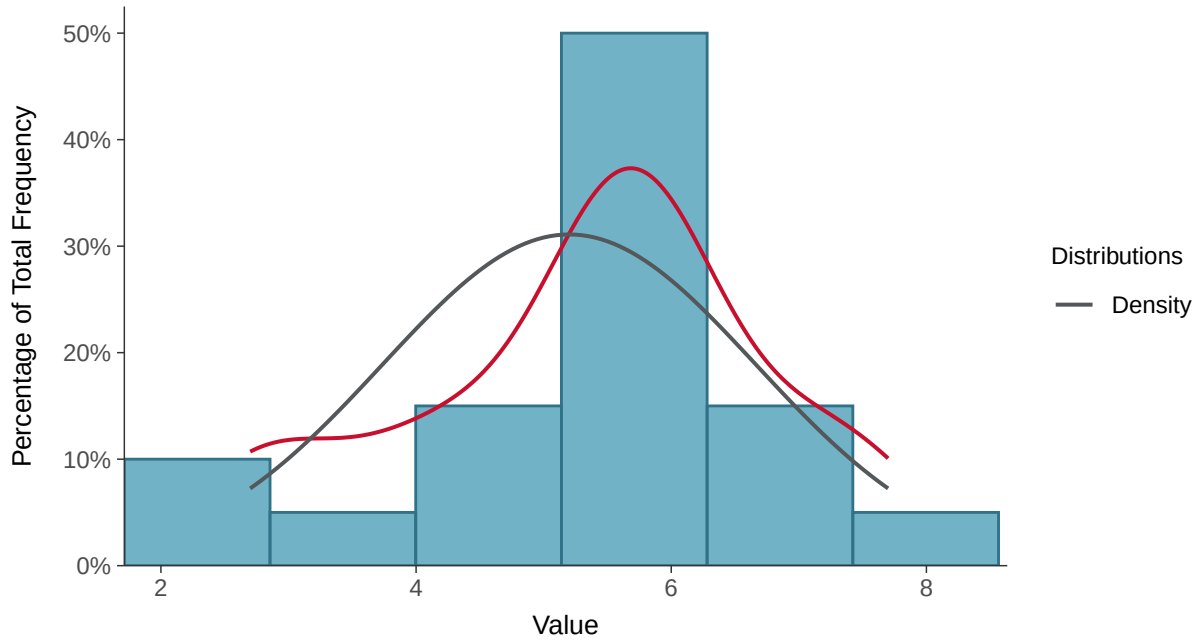
Scatter Plot

Fluoride, MW-10 (mg/L)



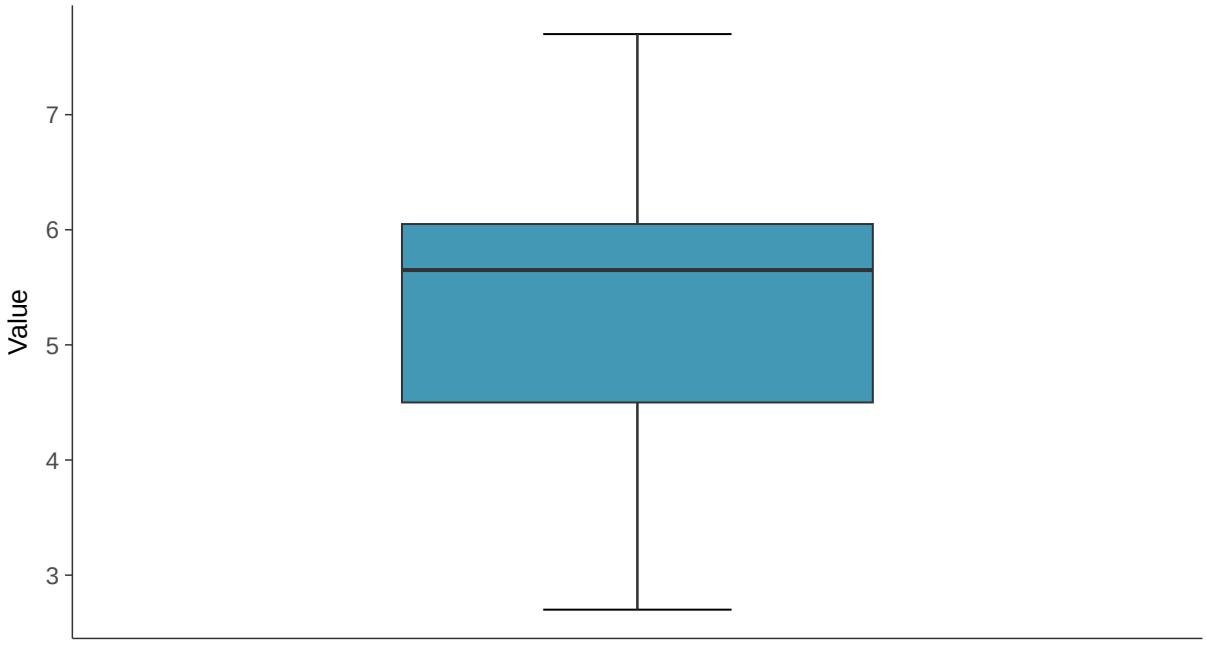
Histogram

Fluoride, MW-10 (mg/L)



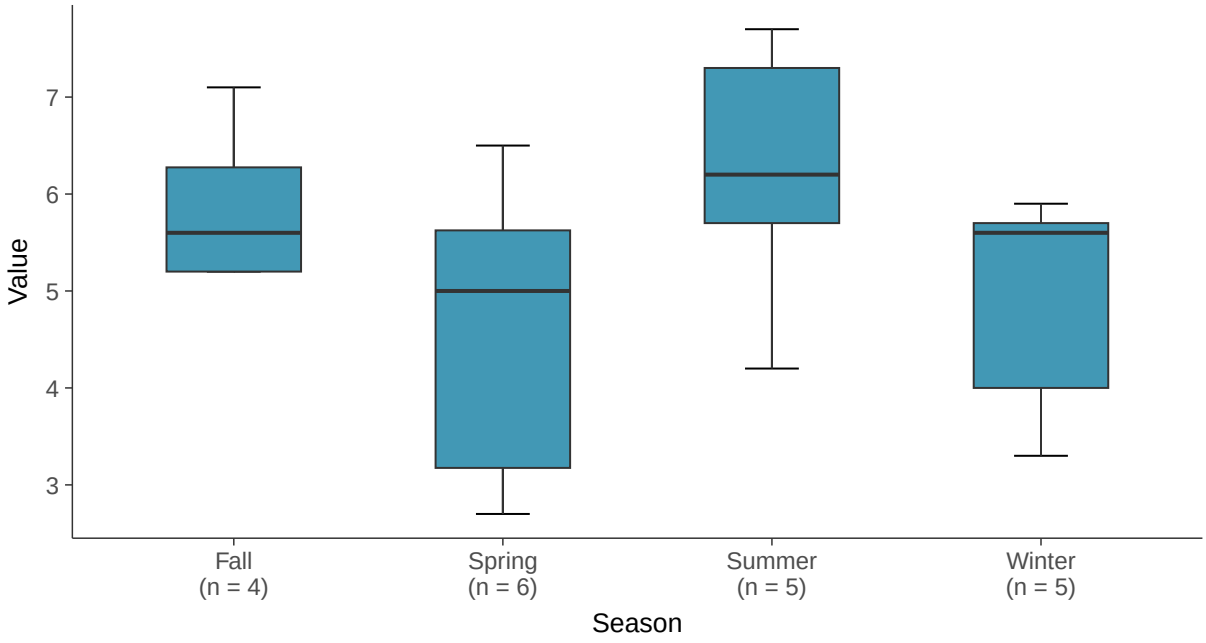
Boxplot

Fluoride, MW-10 (mg/L)



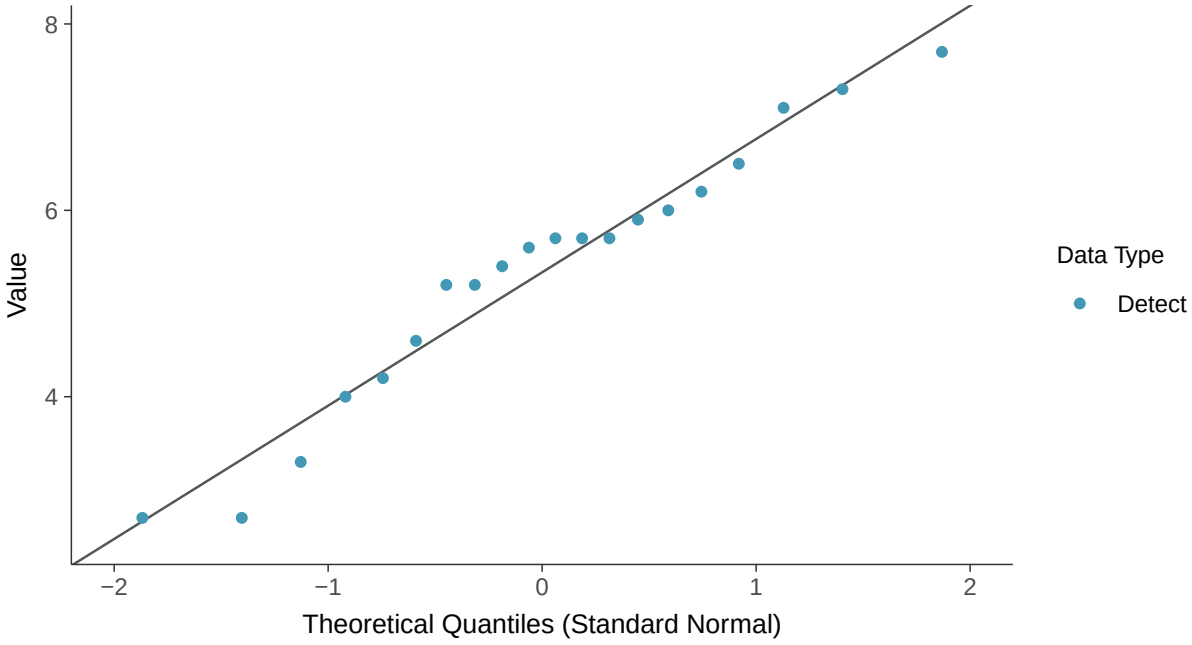
Boxplot by Season

Fluoride, MW-10 (mg/L)



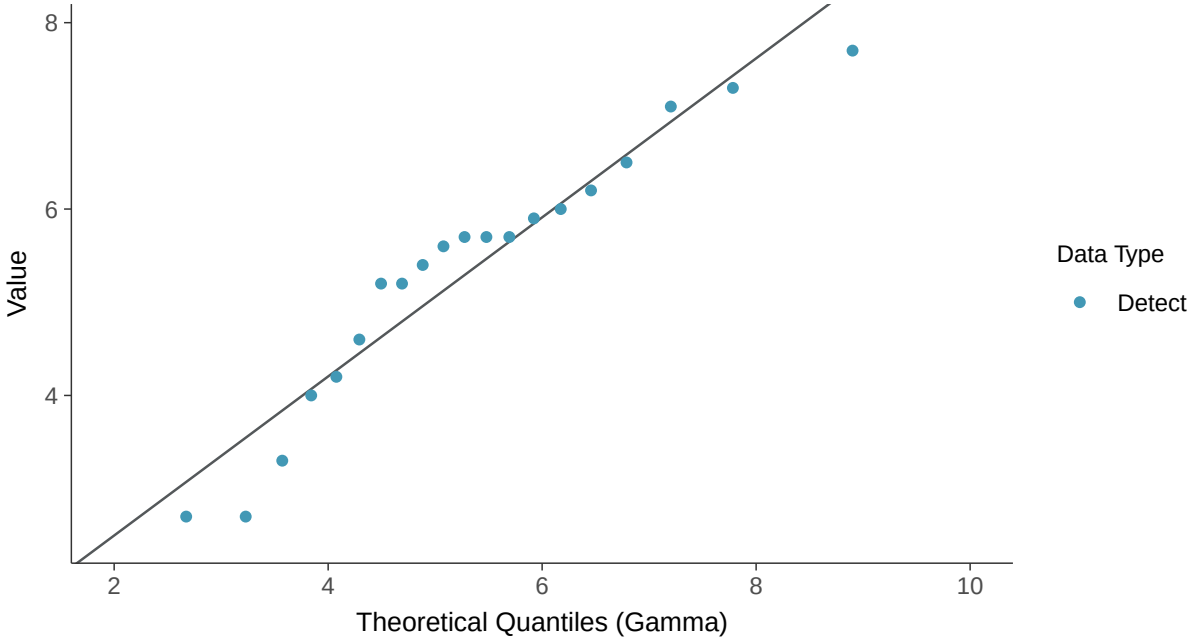
Normal Q-Q plot

Fluoride, MW-10 (mg/L)



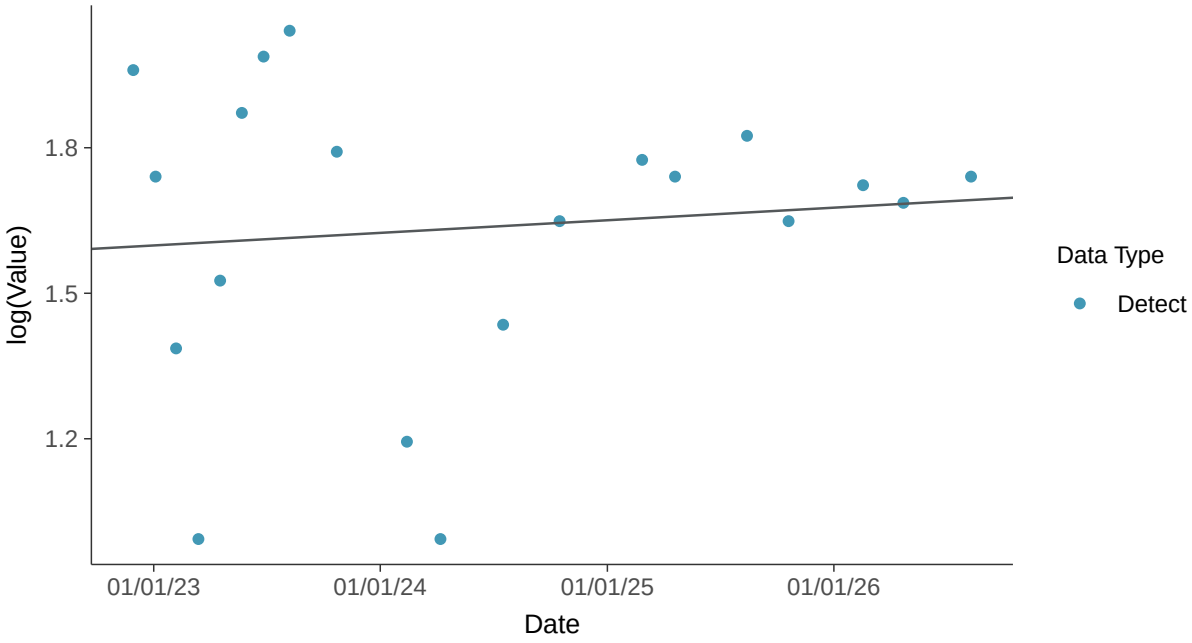
Gamma Q-Q plot

Fluoride, MW-10 (mg/L)



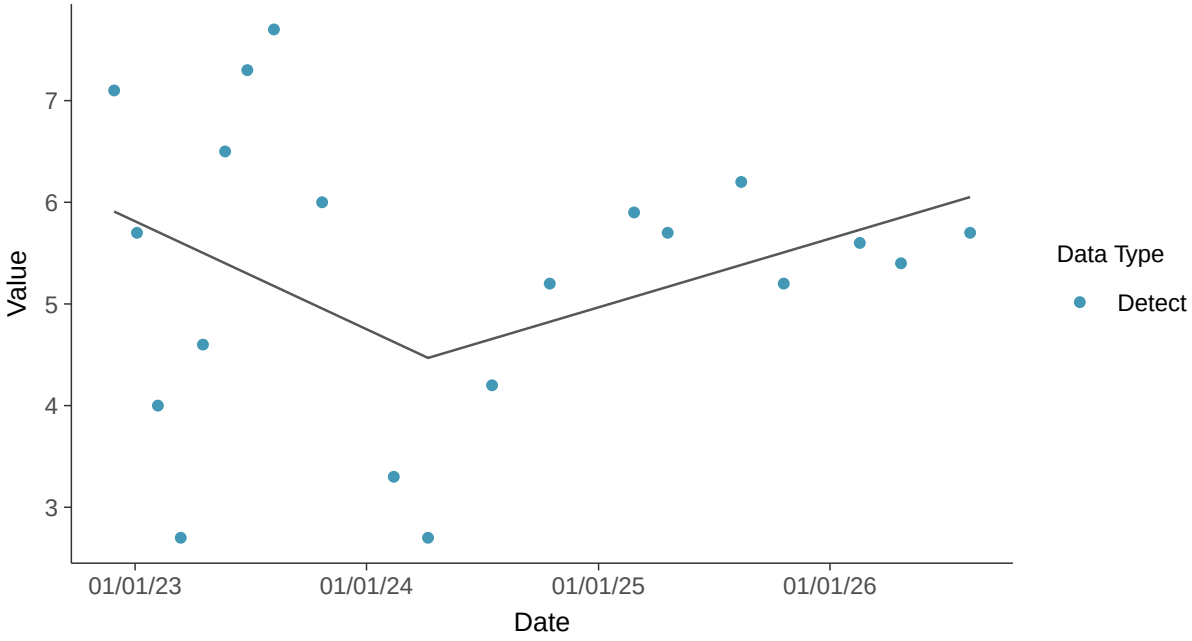
Trend Regression: Lognormal MLE

Fluoride, MW-10 (mg/L)



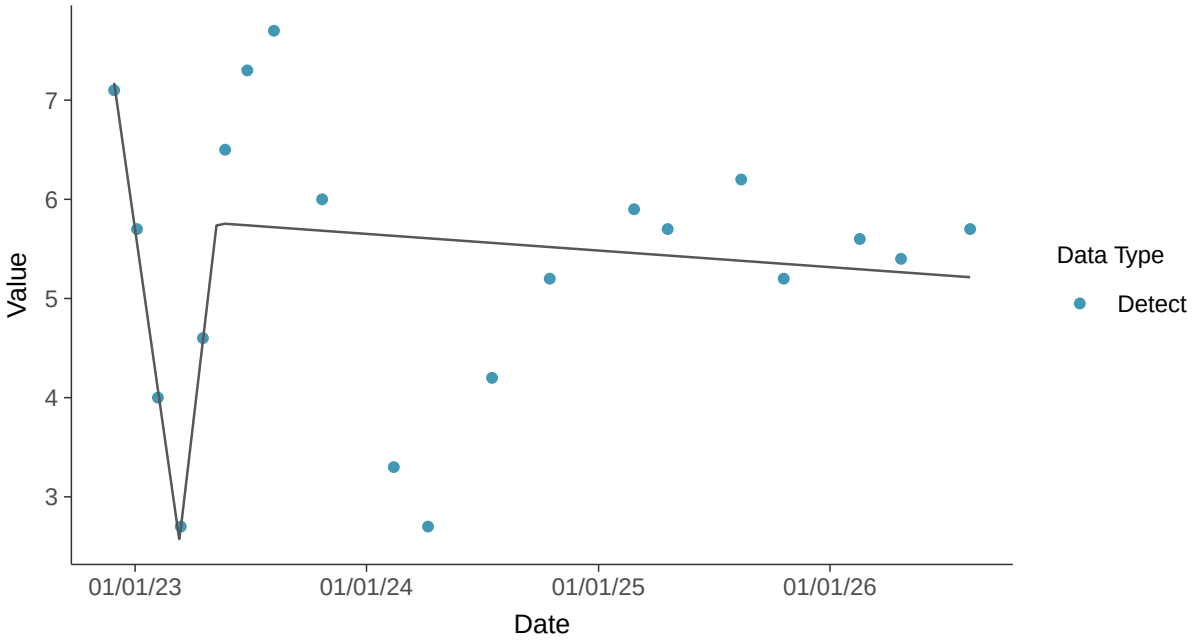
Trend Regression: Piecewise Linear-Linear

Fluoride, MW-10 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Fluoride, MW-10 (mg/L)

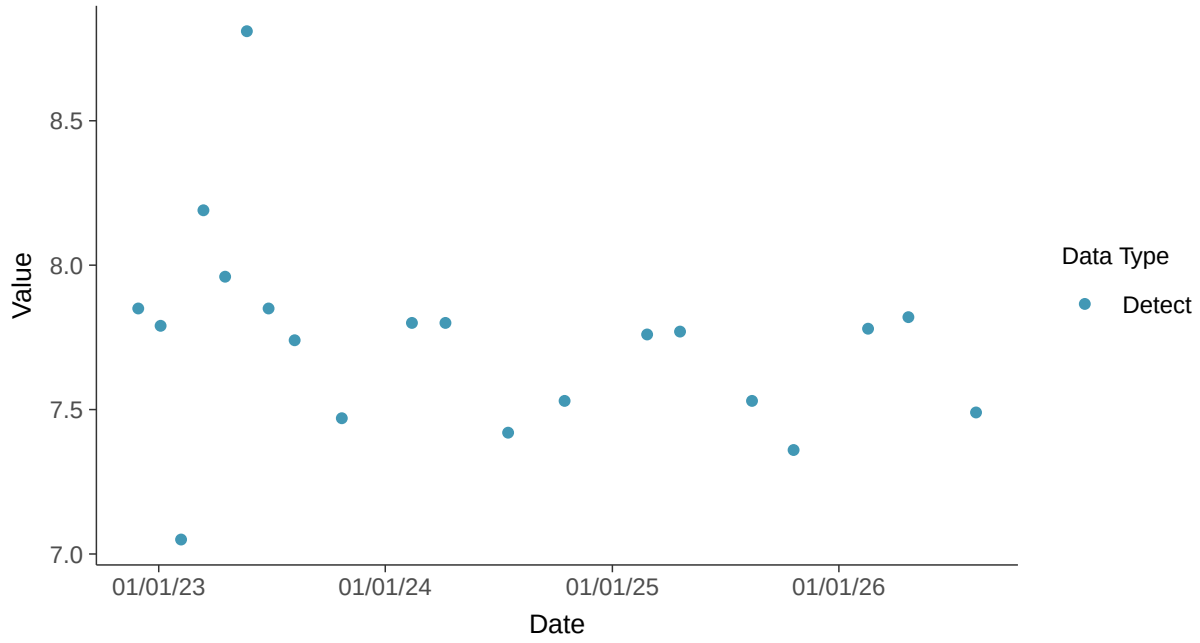


Appendix III: pH (field), MW-10

ID: 20_3_3_120

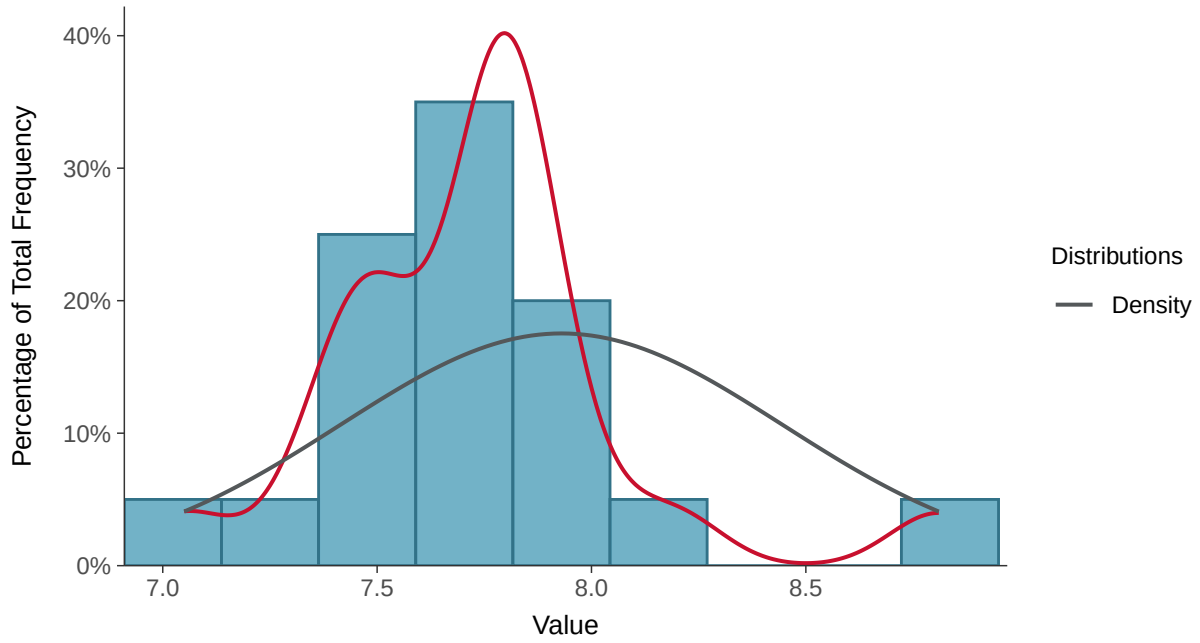
Scatter Plot

pH (field), MW-10 (su)



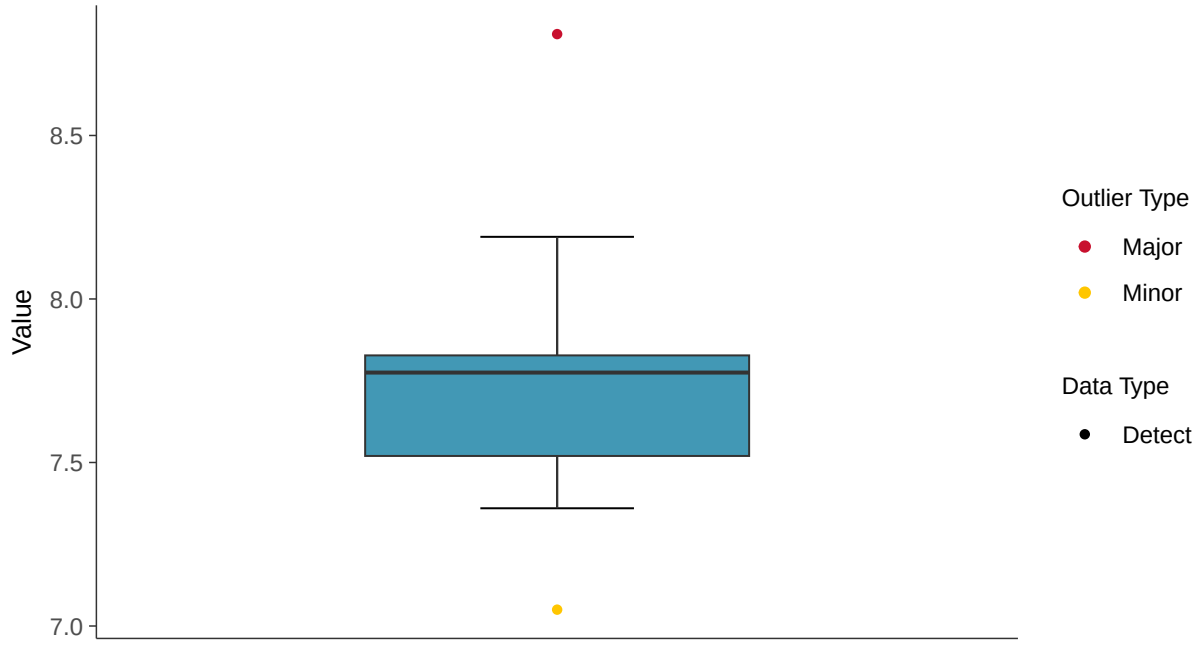
Histogram

pH (field), MW-10 (su)



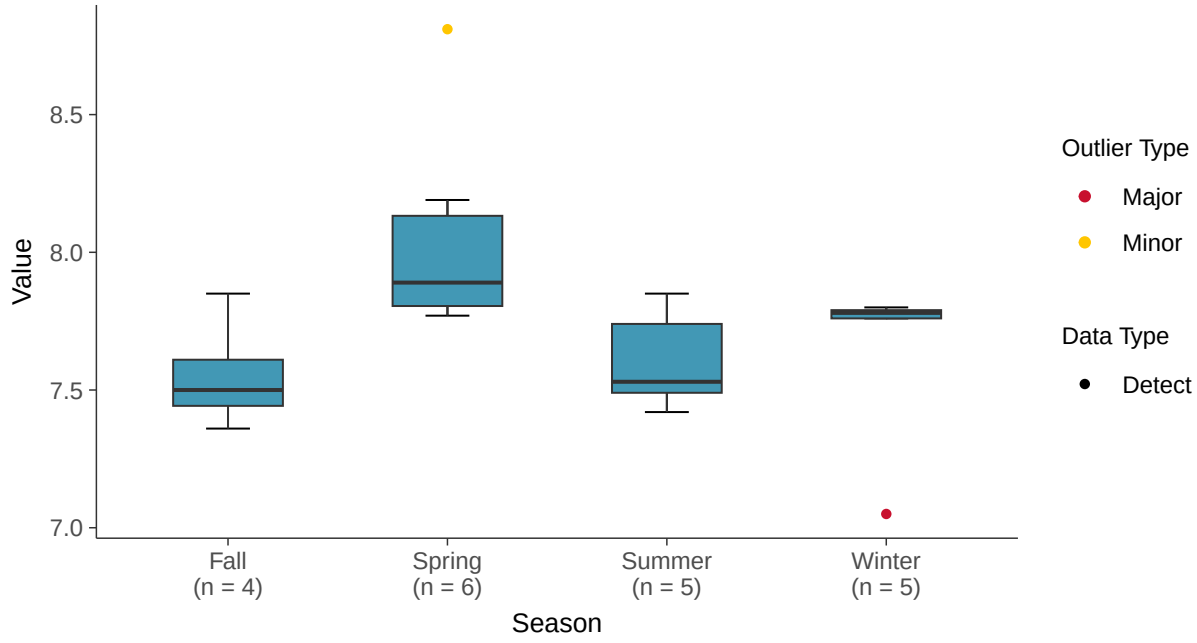
Boxplot

pH (field), MW-10 (su)



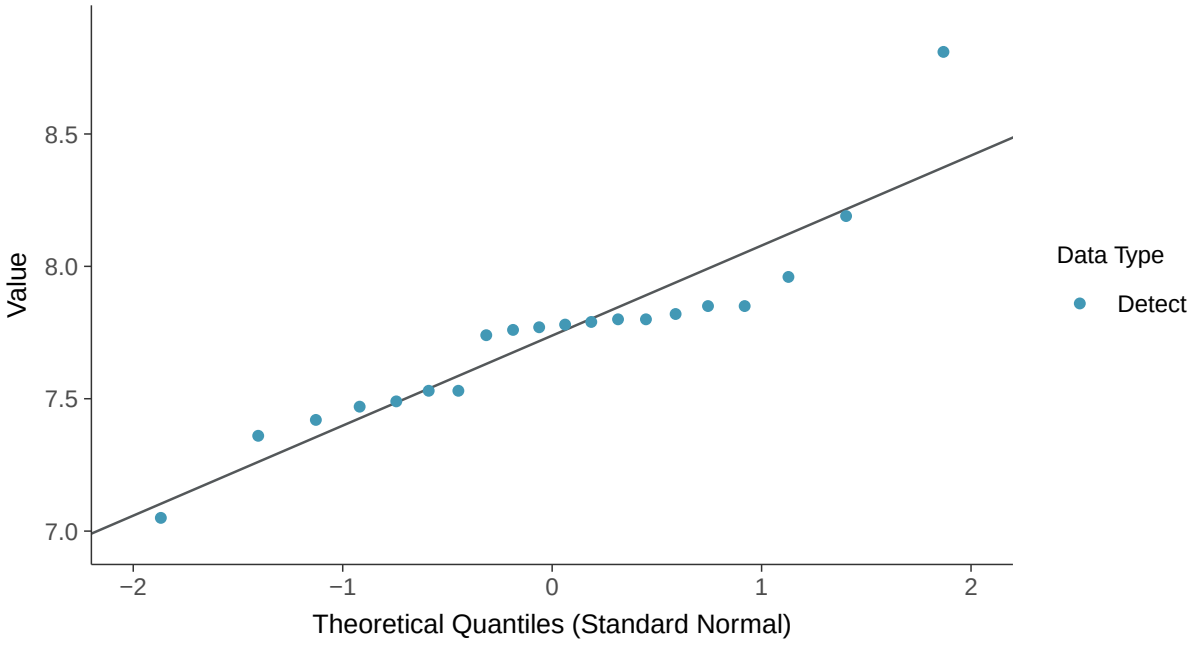
Boxplot by Season

pH (field), MW-10 (su)



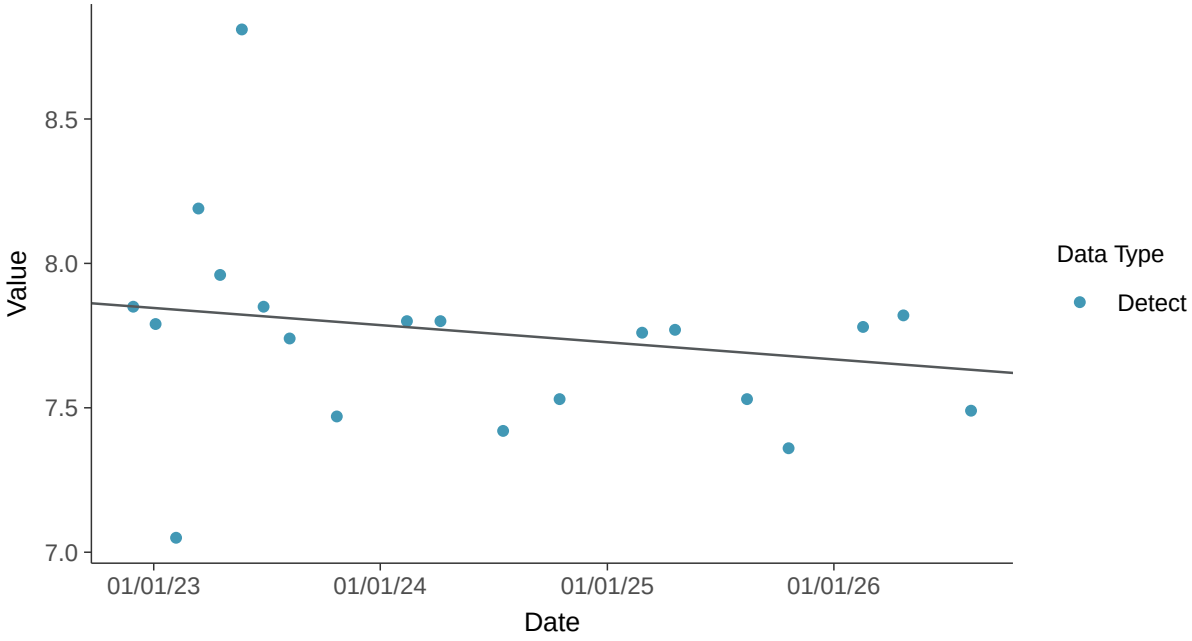
Normal Q-Q plot

pH (field), MW-10 (su)



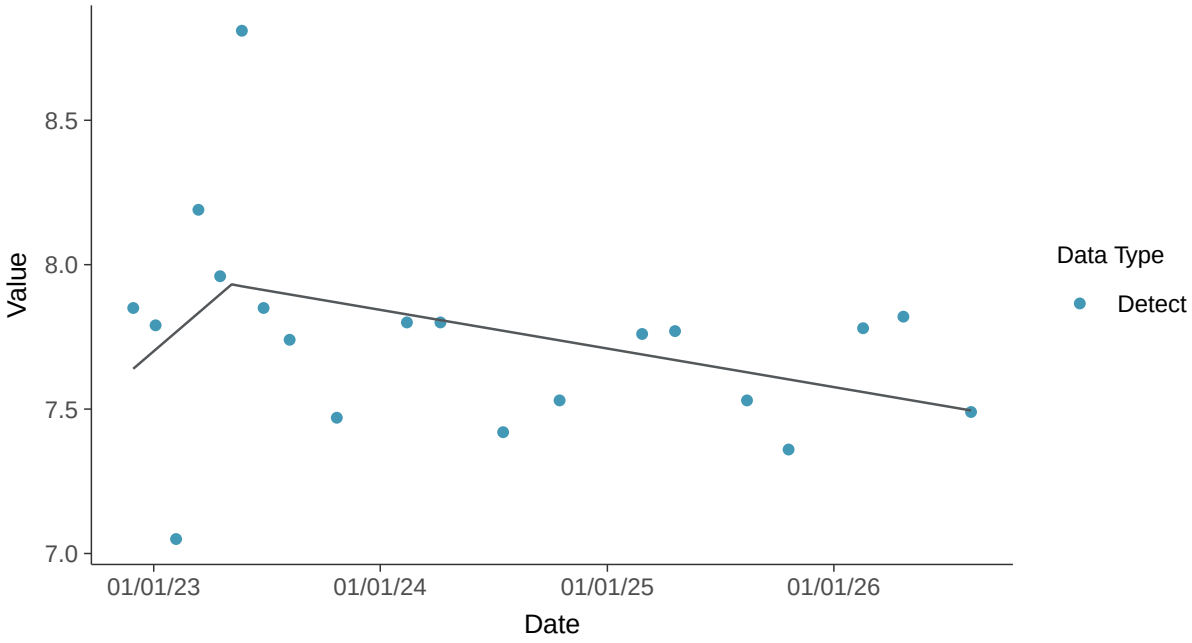
Trend Regression: Mann-Kendall/Theil-Sen Estimate

pH (field), MW-10 (su)



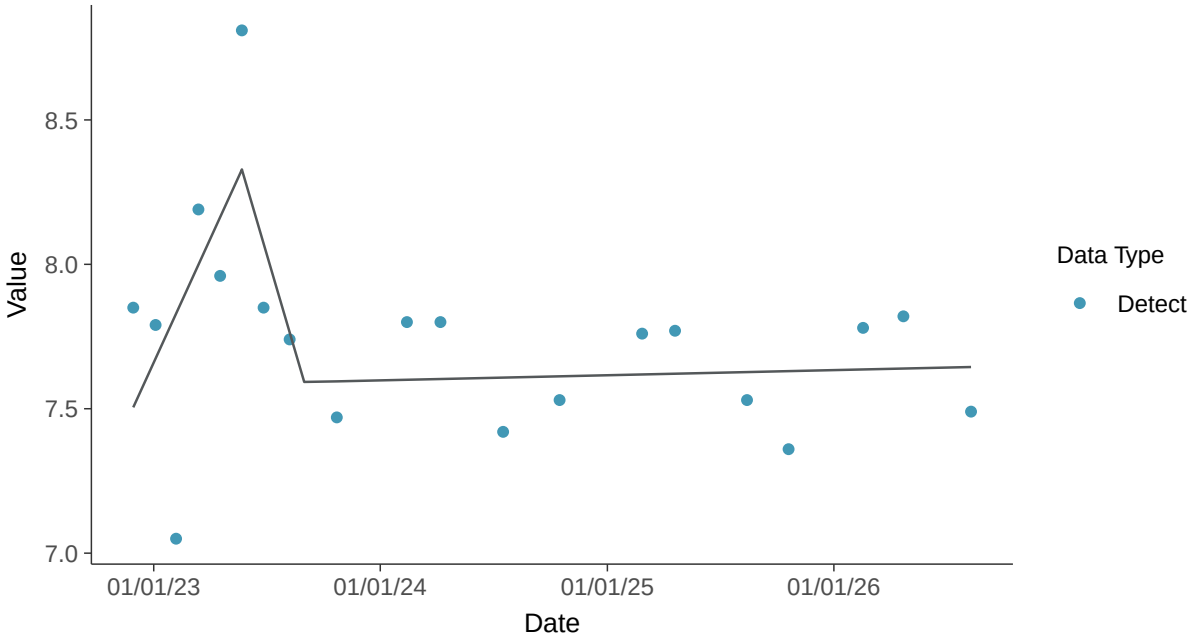
Trend Regression: Piecewise Linear-Linear

pH (field), MW-10 (su)



Trend Regression: Piecewise Linear-Linear-Linear

pH (field), MW-10 (su)

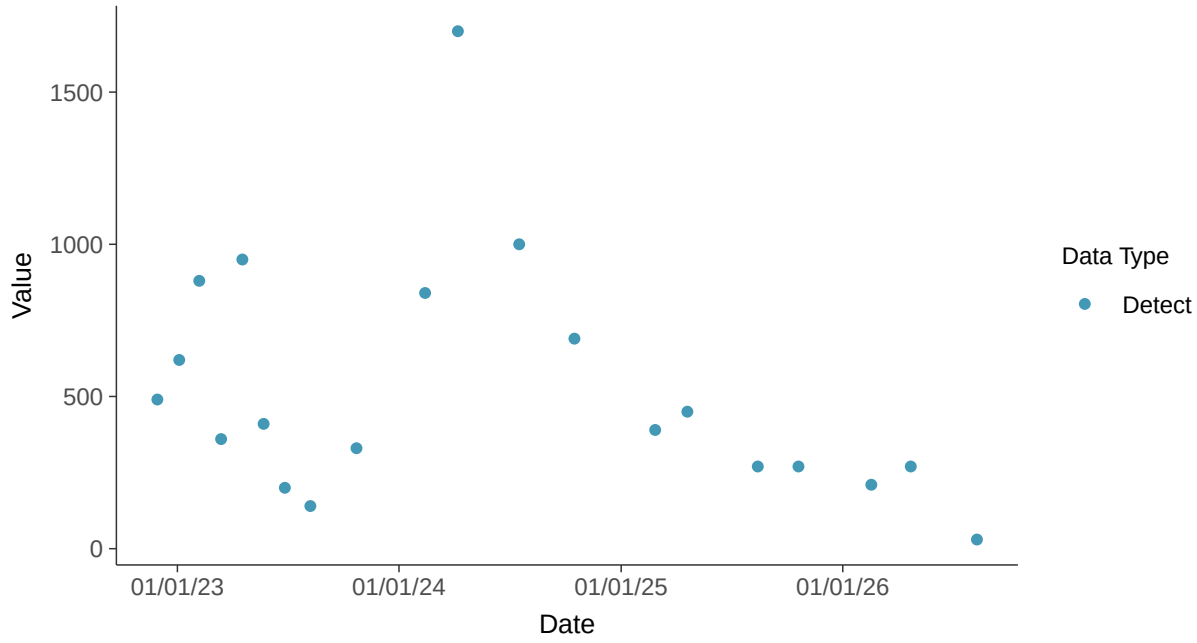


Appendix III: Sulfate (as SO4), MW-10

ID: 20_3_3_124

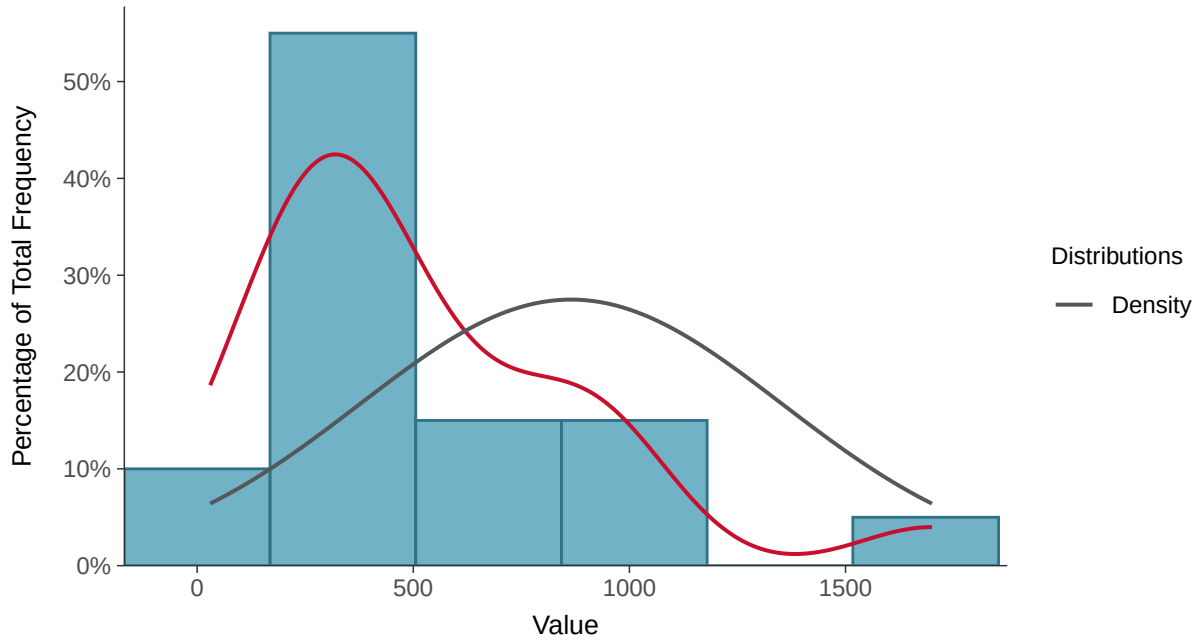
Scatter Plot

Sulfate (as SO4), MW-10 (mg/L)



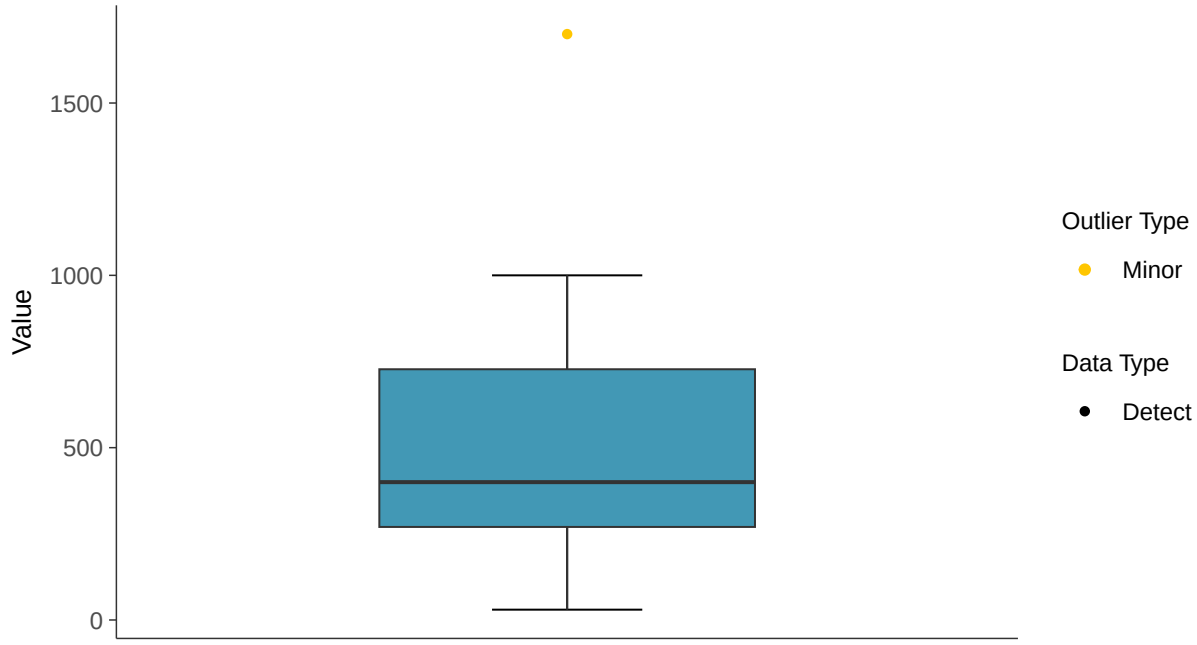
Histogram

Sulfate (as SO4), MW-10 (mg/L)



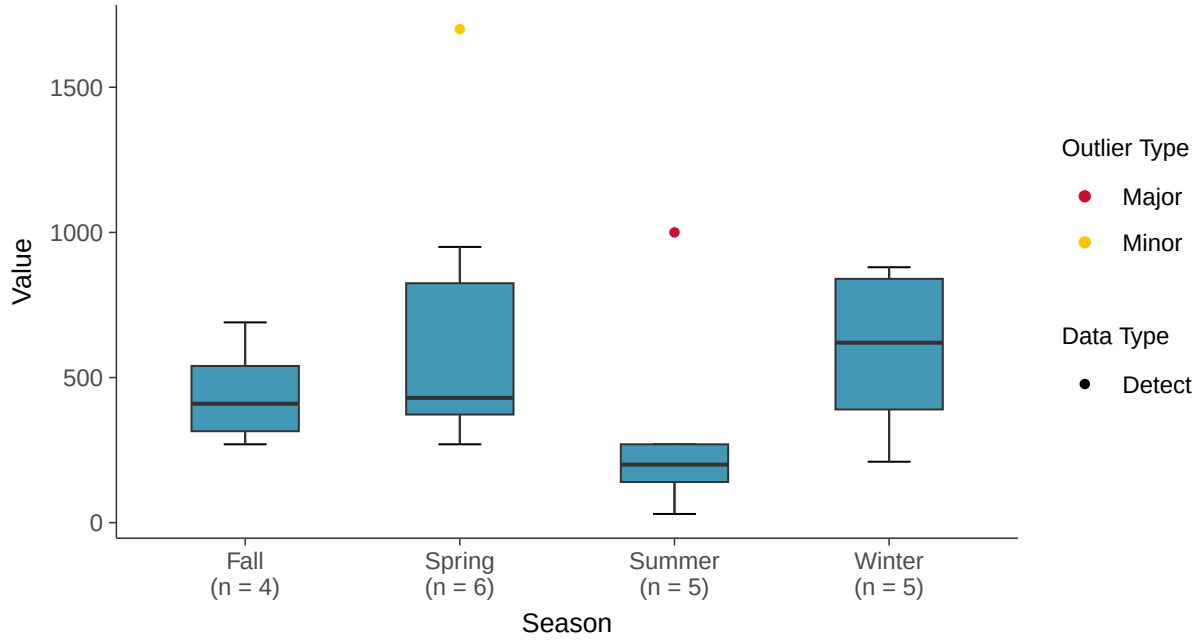
Boxplot

Sulfate (as SO4), MW-10 (mg/L)



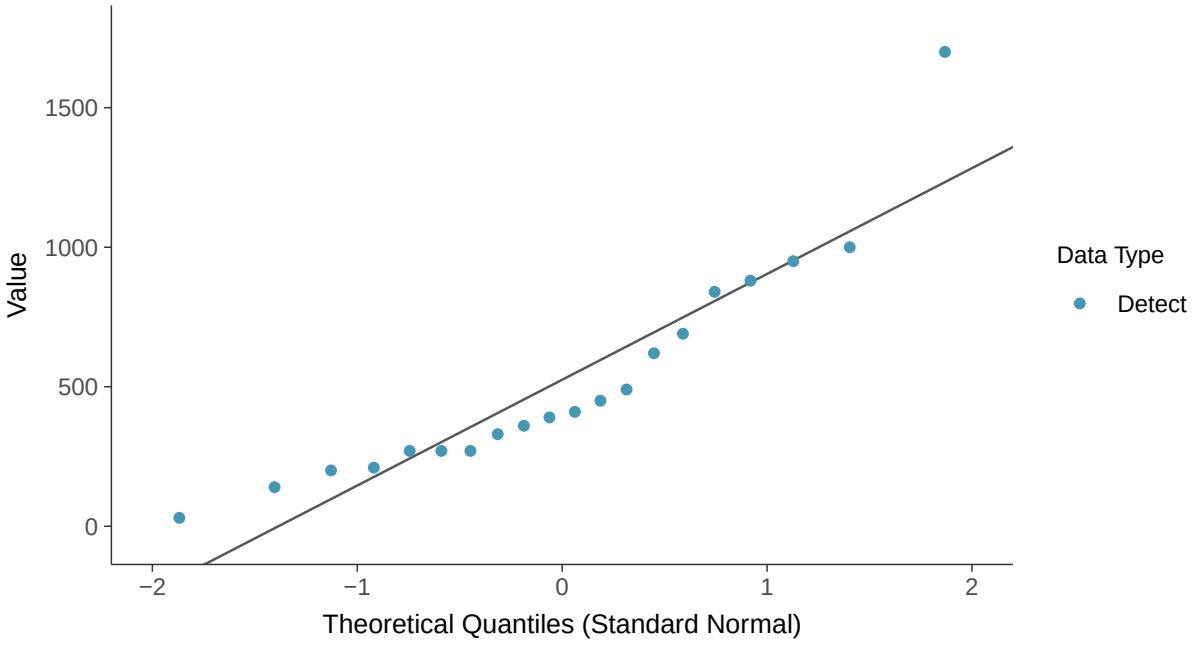
Boxplot by Season

Sulfate (as SO4), MW-10 (mg/L)



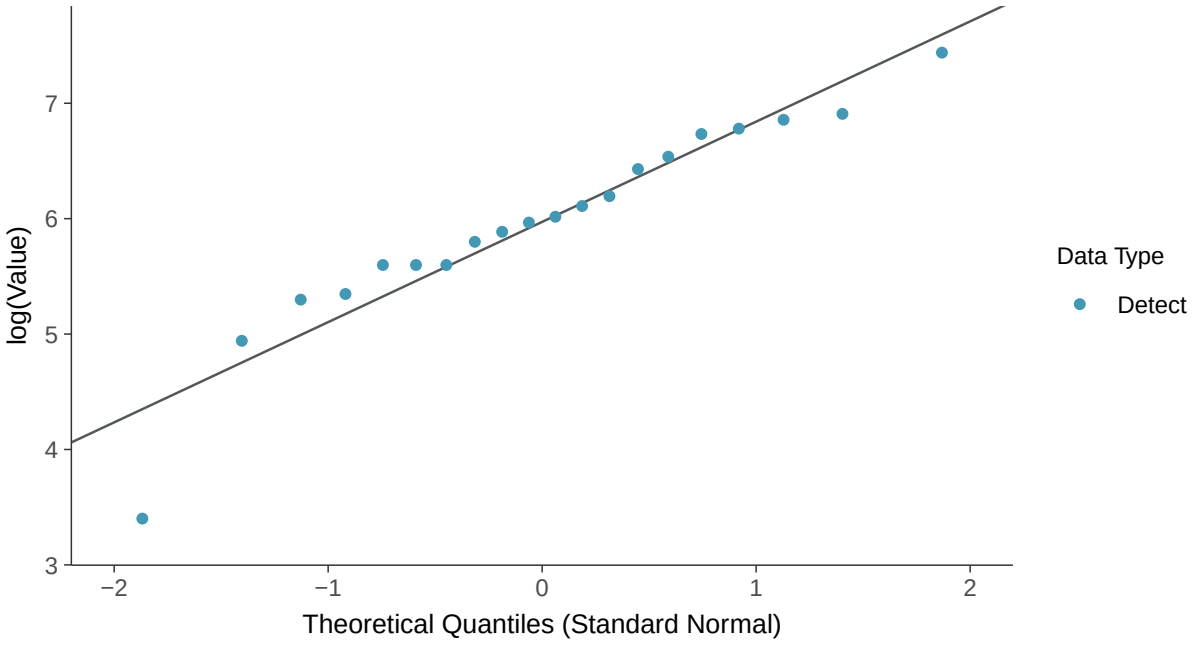
Normal Q-Q plot

Sulfate (as SO4), MW-10 (mg/L)



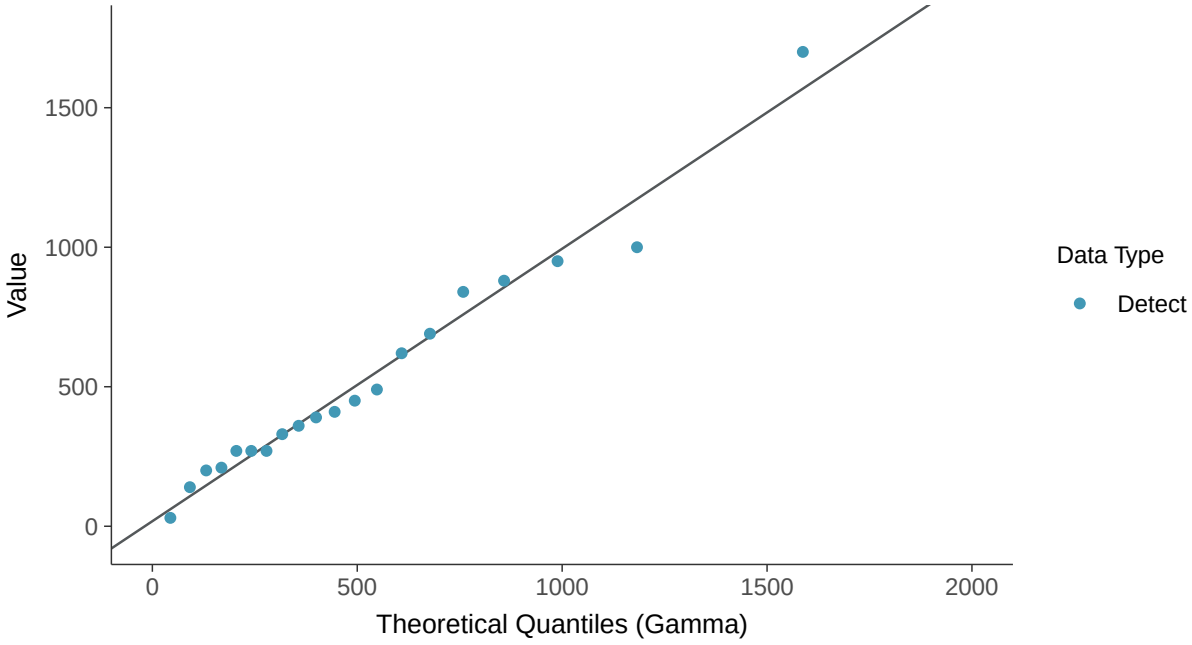
Lognormal Q-Q plot

Sulfate (as SO4), MW-10 (mg/L)



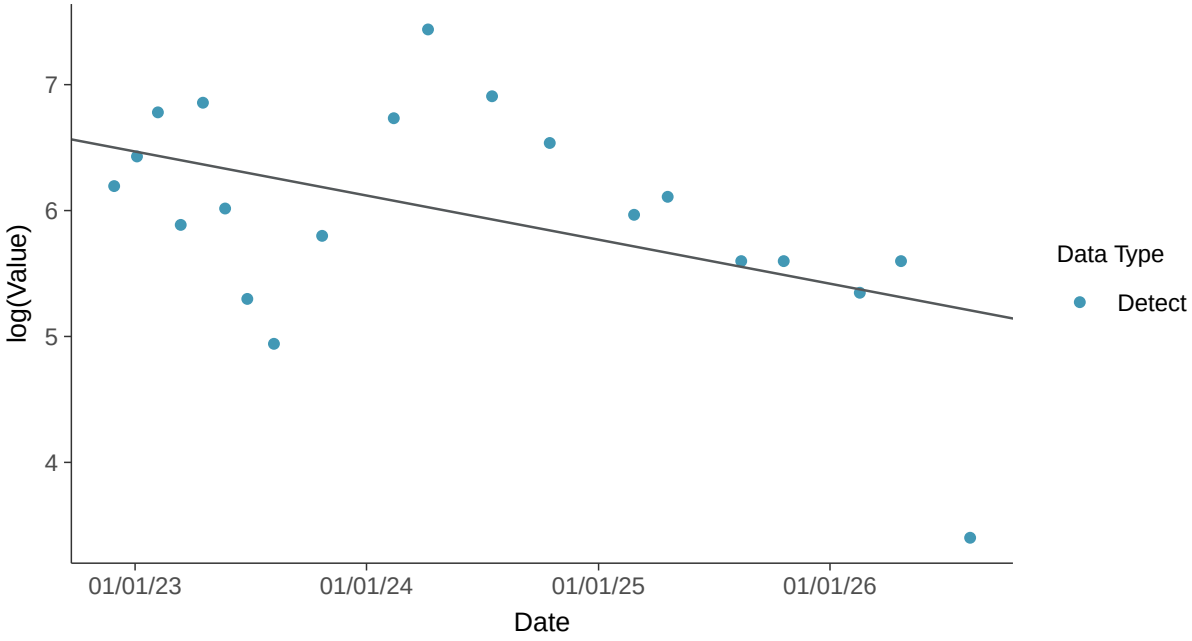
Gamma Q-Q plot

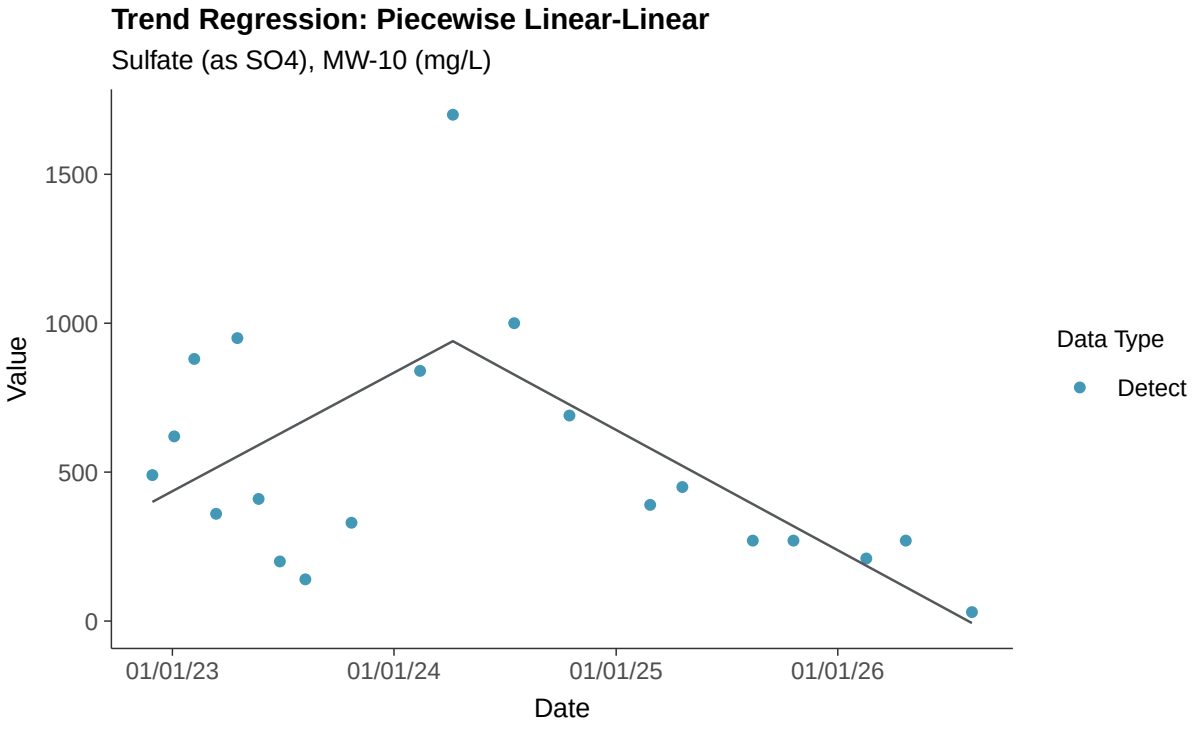
Sulfate (as SO4), MW-10 (mg/L)



Trend Regression: Lognormal MLE

Sulfate (as SO4), MW-10 (mg/L)



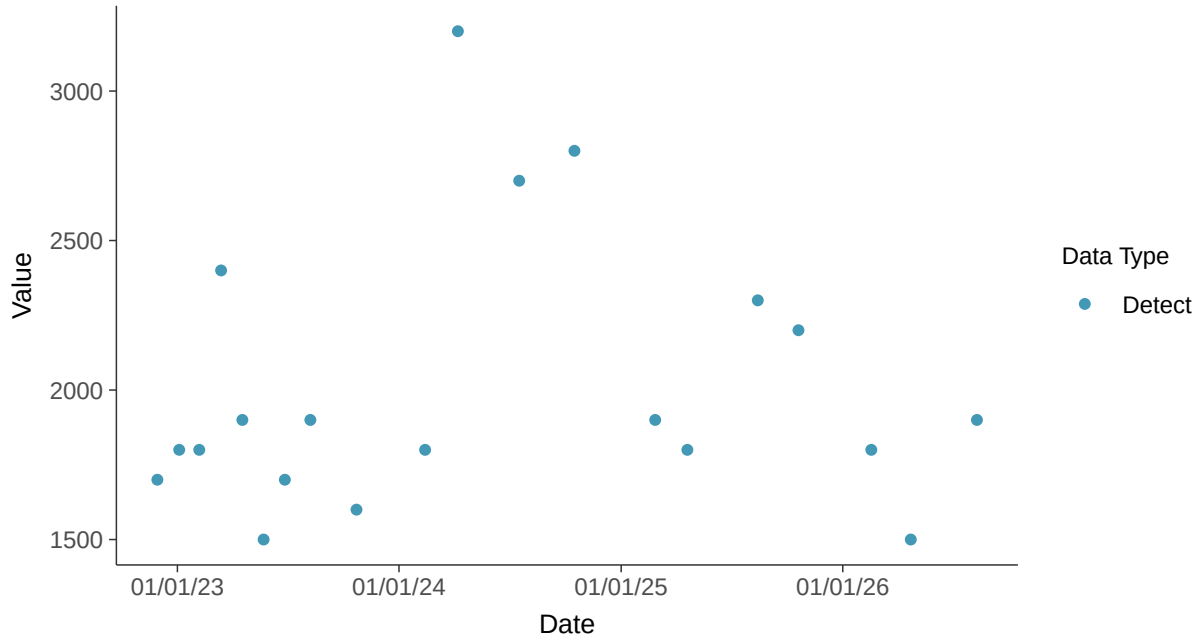

Trend Regression: Piecewise Linear-Linear
Sulfate (as SO4), MW-10 (mg/L)
Value
1500
1000
500
0
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect

Appendix III: Total Dissolved Solids, MW-10

ID: 20_3_3_126

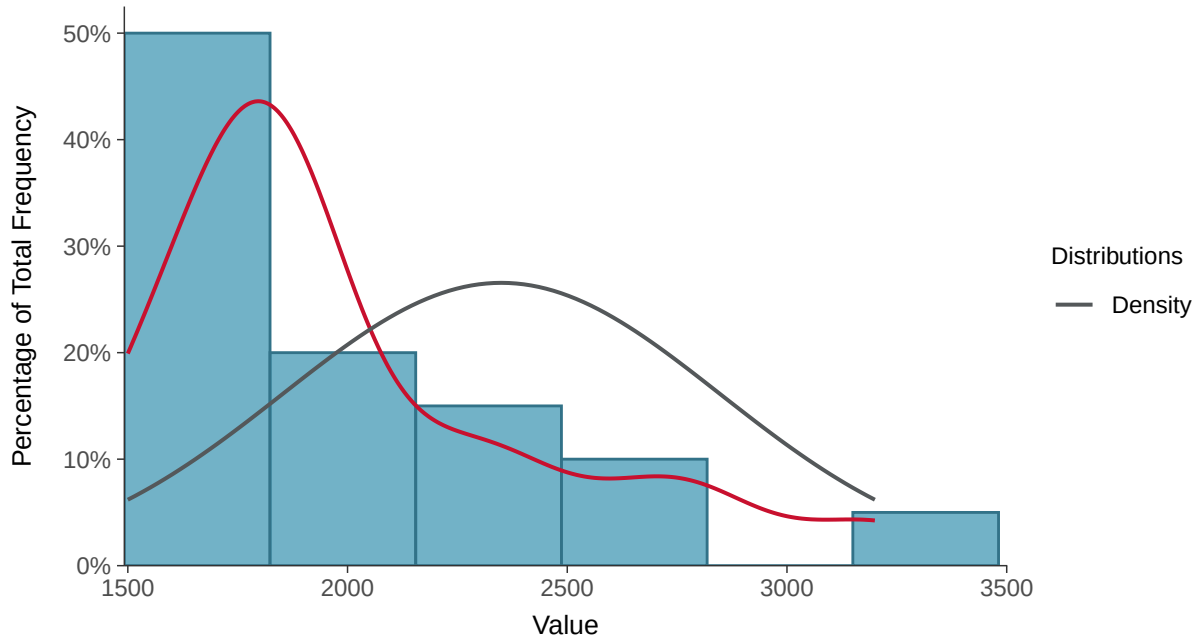
Scatter Plot

Total Dissolved Solids, MW-10 (mg/L)



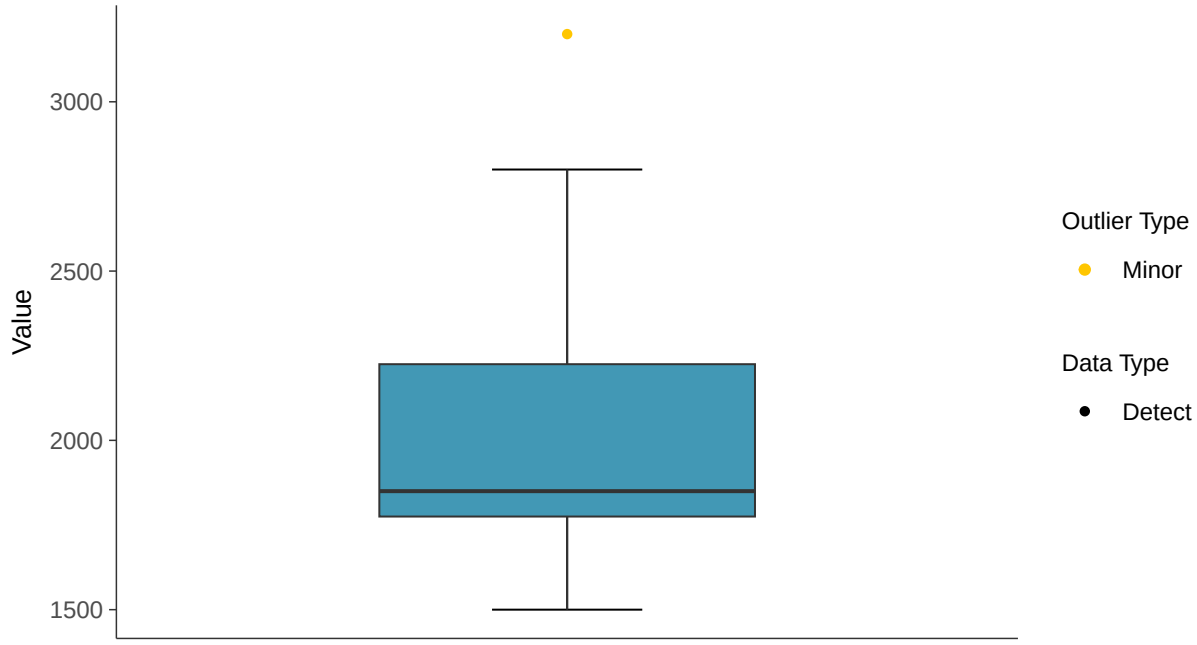
Histogram

Total Dissolved Solids, MW-10 (mg/L)



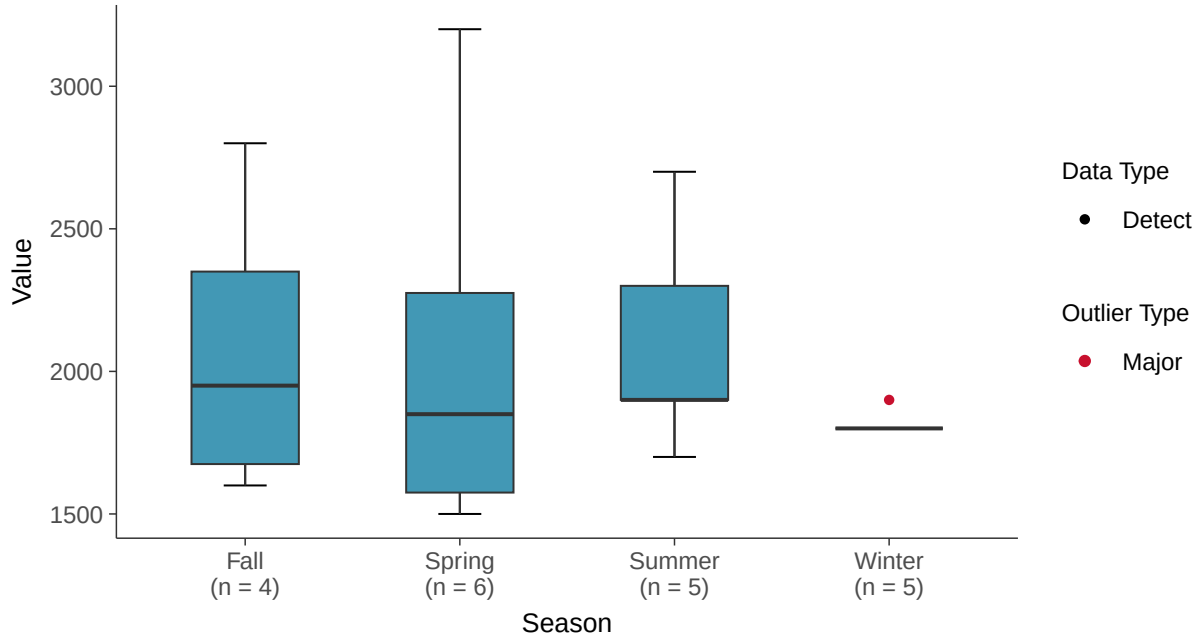
Boxplot

Total Dissolved Solids, MW-10 (mg/L)



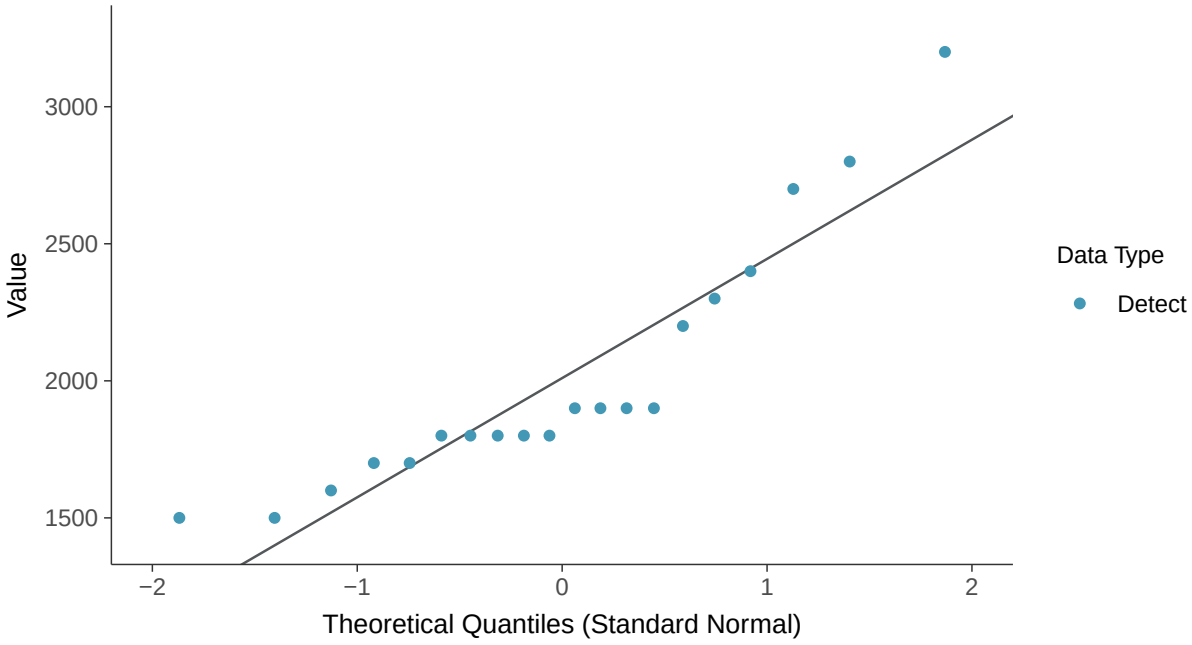
Boxplot by Season

Total Dissolved Solids, MW-10 (mg/L)



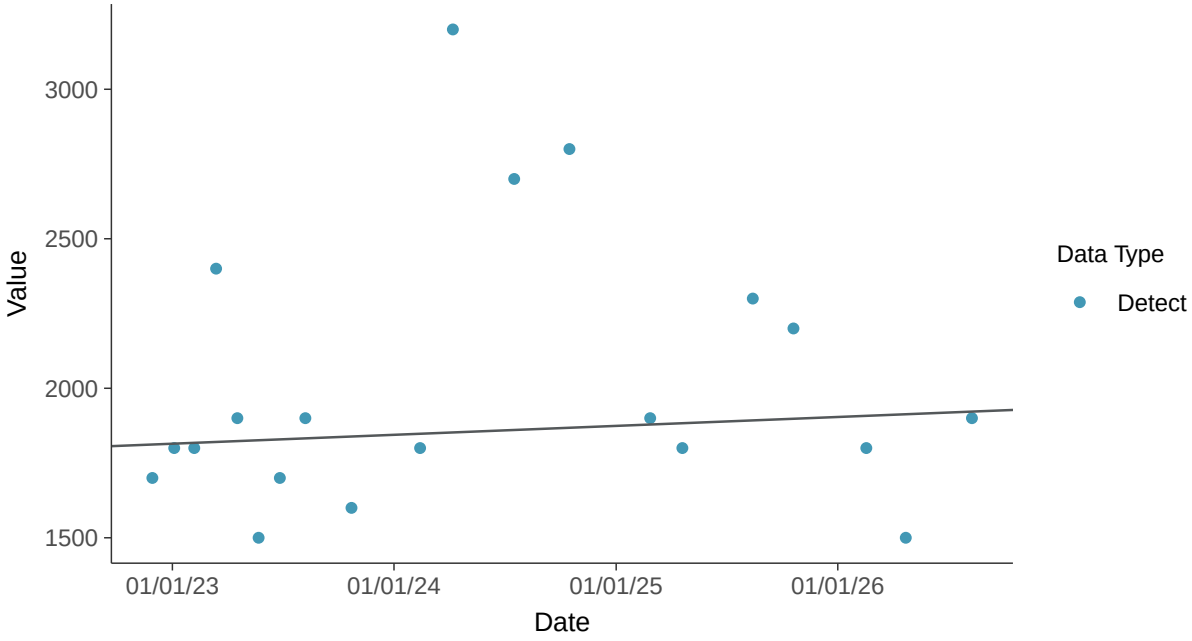
Normal Q-Q plot

Total Dissolved Solids, MW-10 (mg/L)



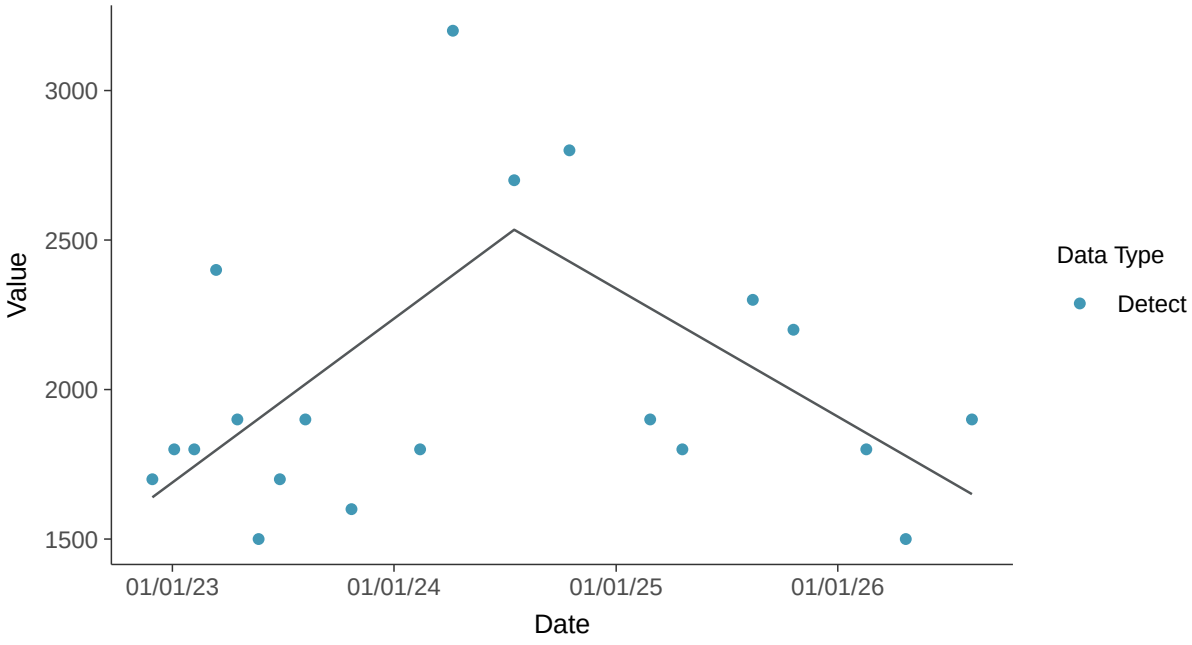
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Total Dissolved Solids, MW-10 (mg/L)



Trend Regression: Piecewise Linear-Linear

Total Dissolved Solids, MW-10 (mg/L)

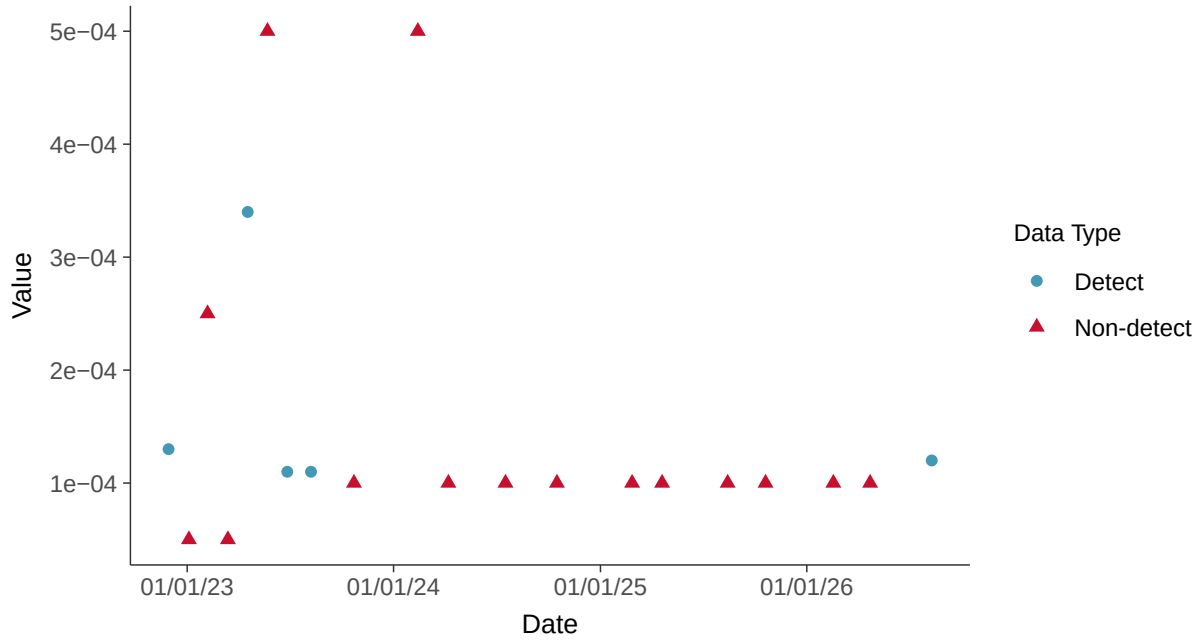


Appendix IV: Antimony, MW-10

ID: 20_3_4_101

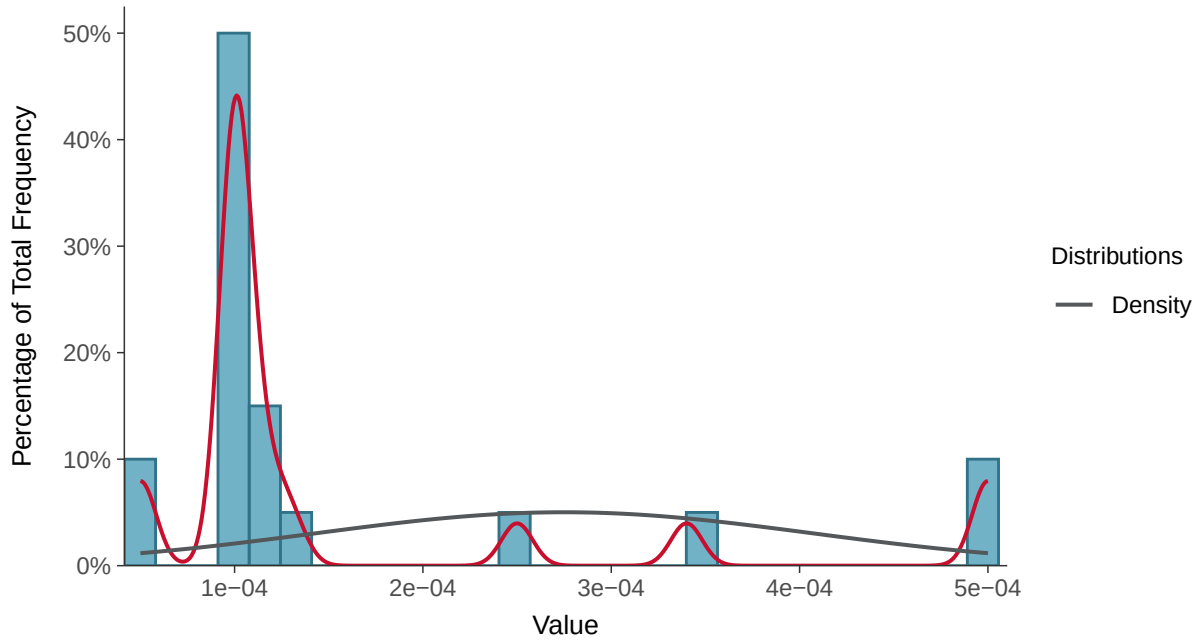
Scatter Plot

Antimony, MW-10 (mg/L)



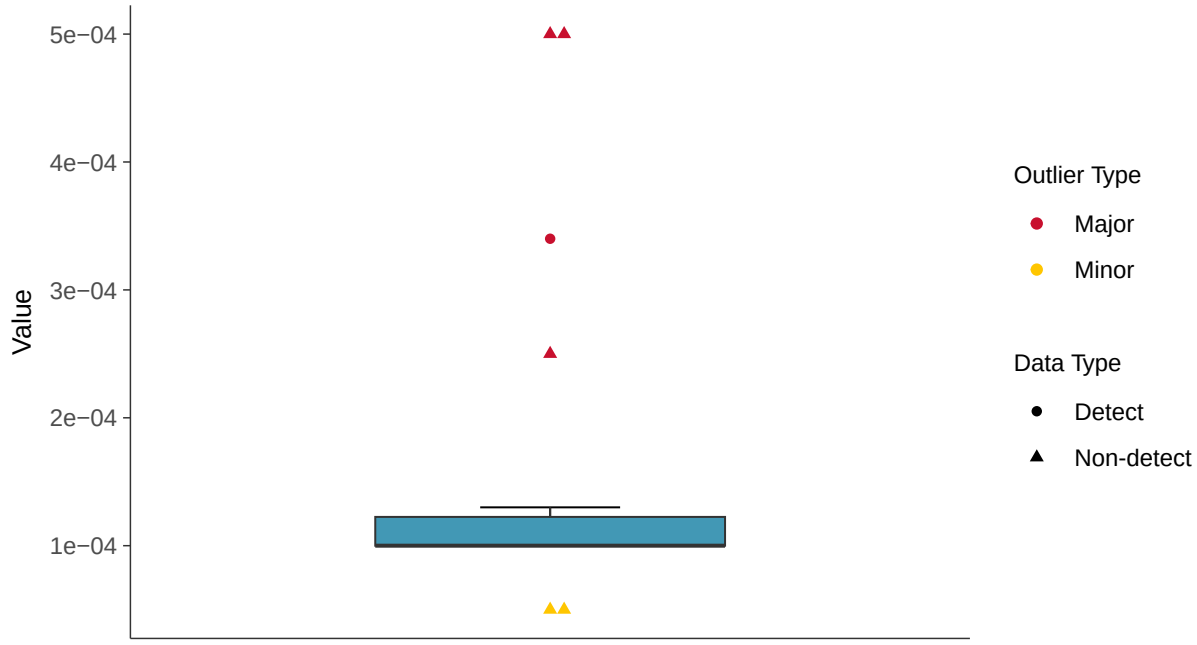
Histogram

Antimony, MW-10 (mg/L)



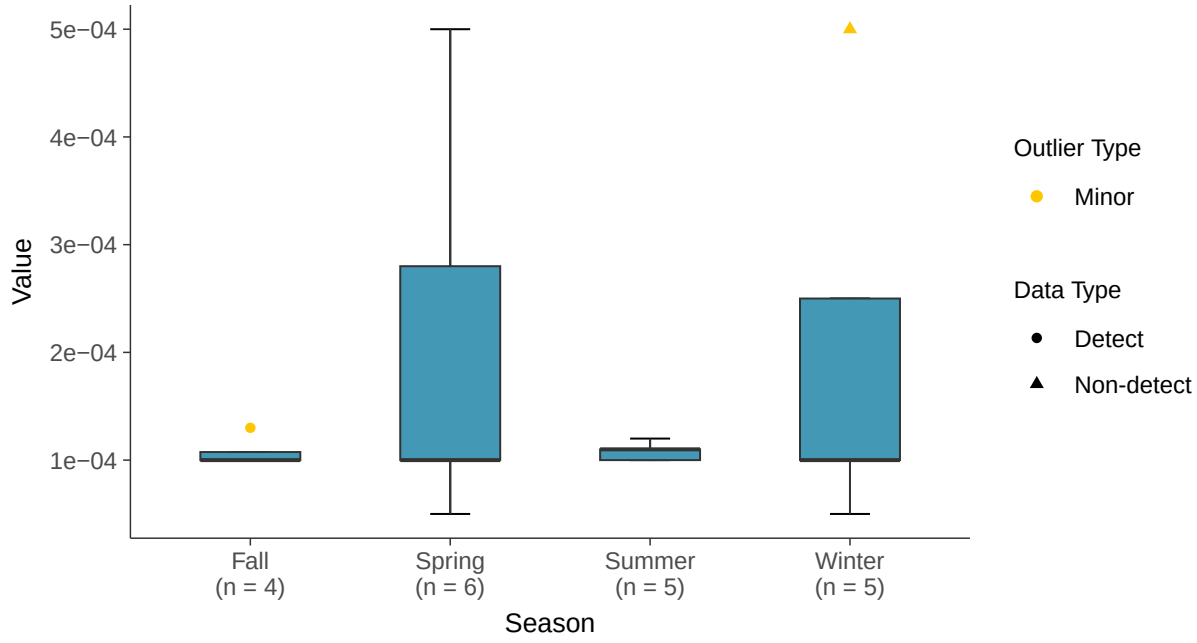
Boxplot

Antimony, MW-10 (mg/L)



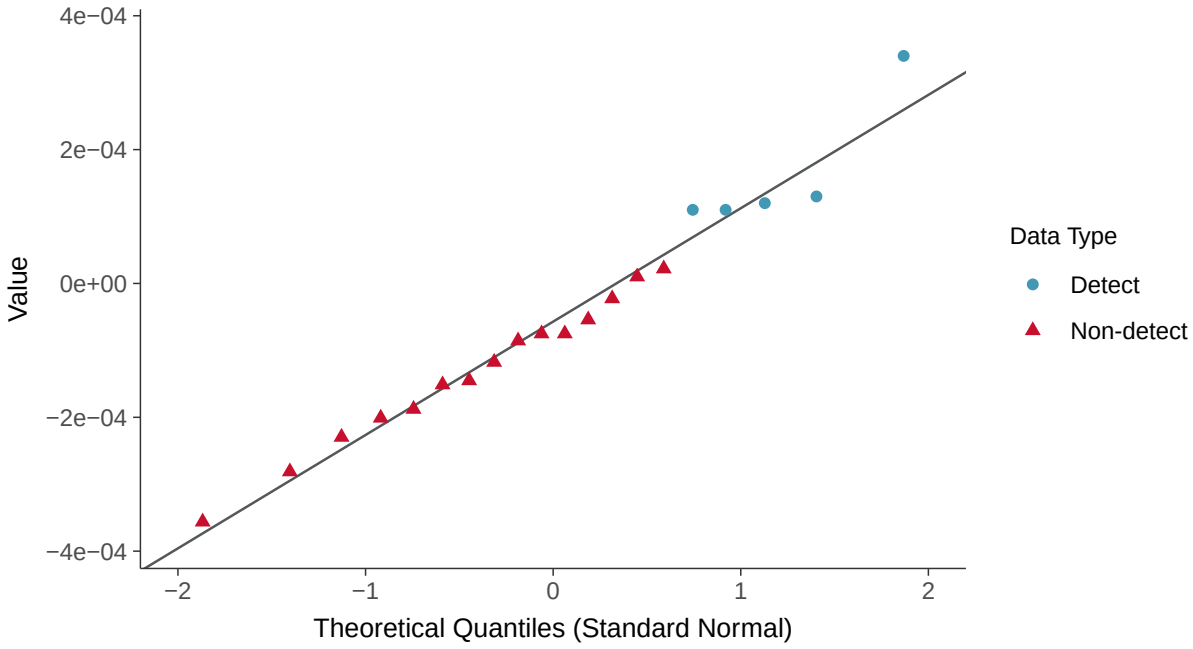
Boxplot by Season

Antimony, MW-10 (mg/L)



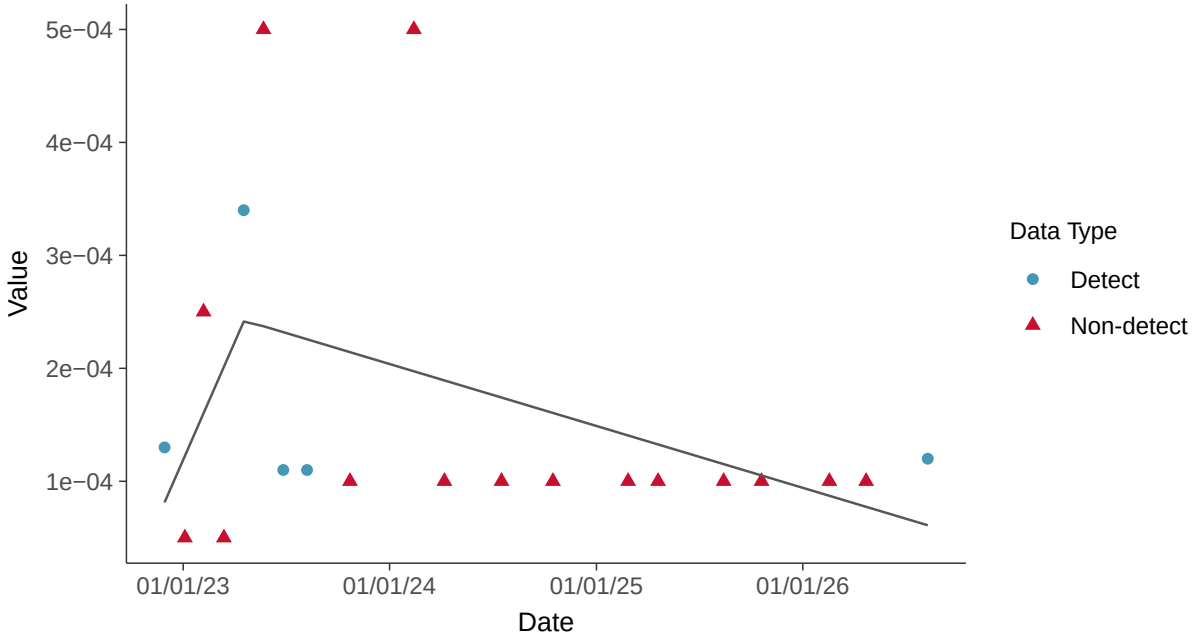
Normal Q-Q plot using ROS Imputed Estimates

Antimony, MW-10 (mg/L)



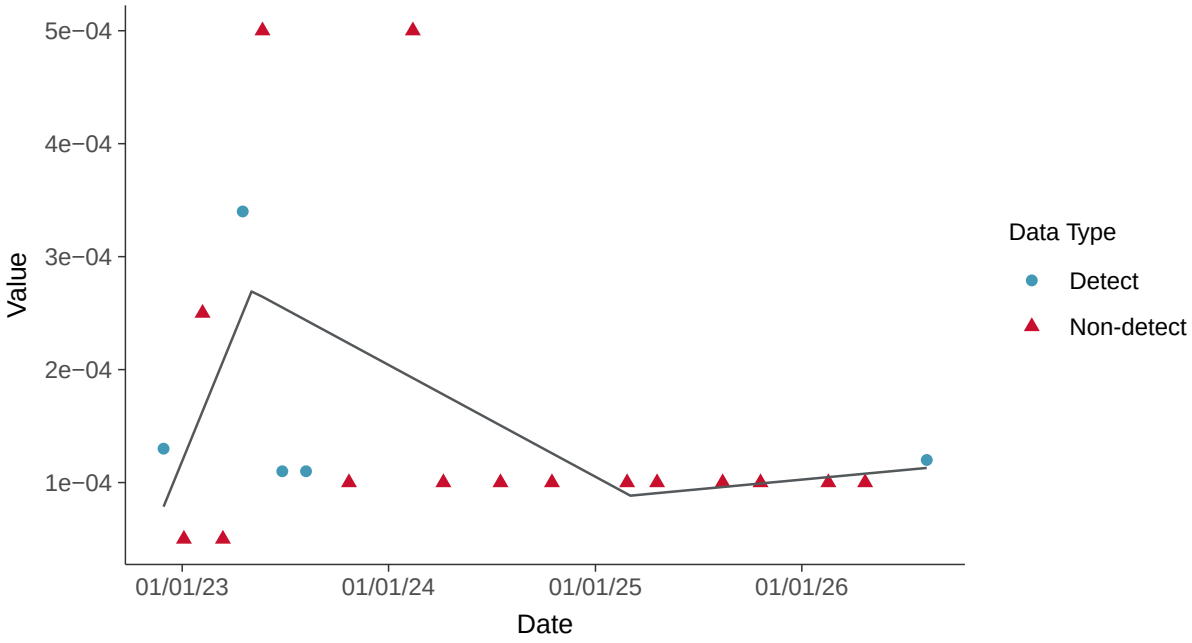
Trend Regression: Piecewise Linear-Linear

Antimony, MW-10 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Antimony, MW-10 (mg/L)

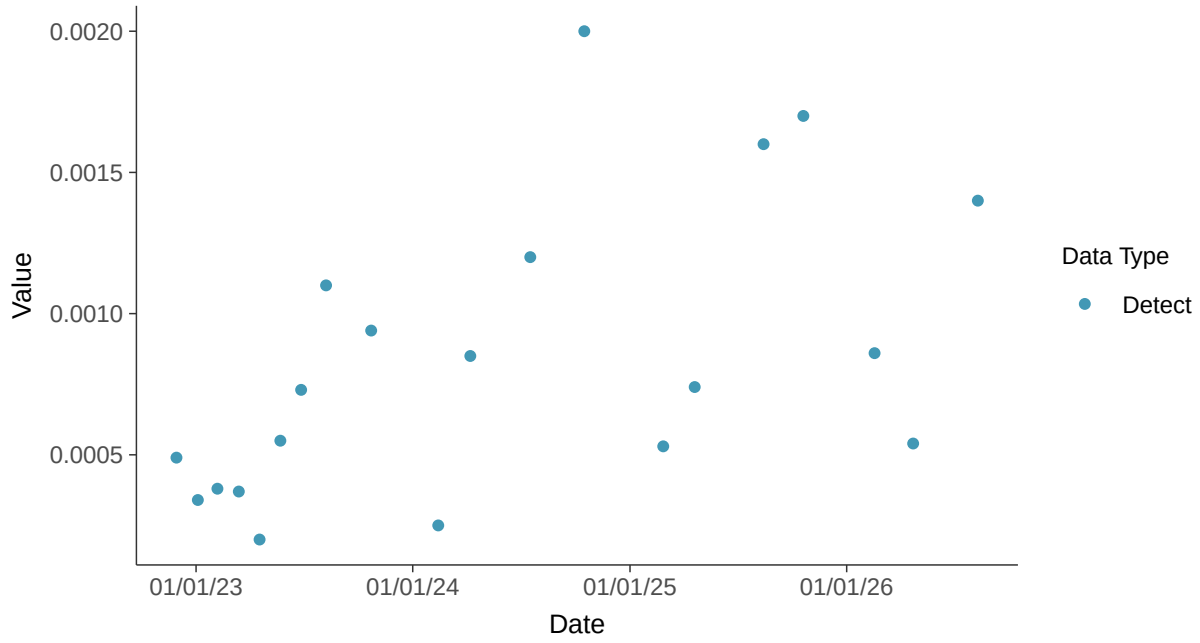


Appendix IV: Arsenic, MW-10

ID: 20_3_4_102

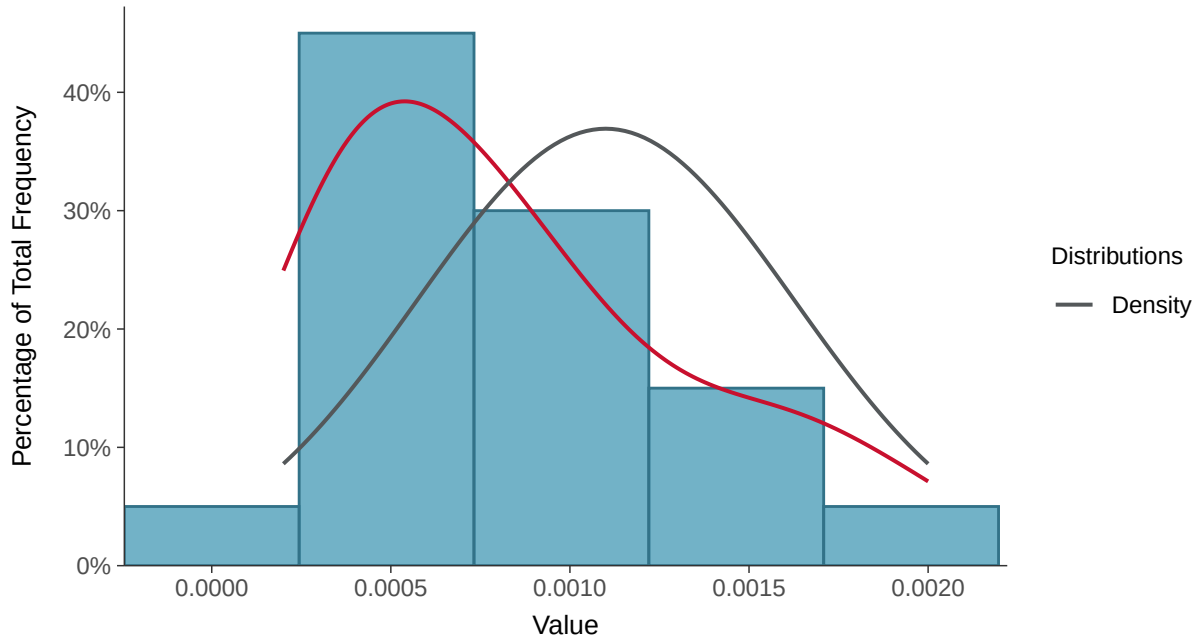
Scatter Plot

Arsenic, MW-10 (mg/L)



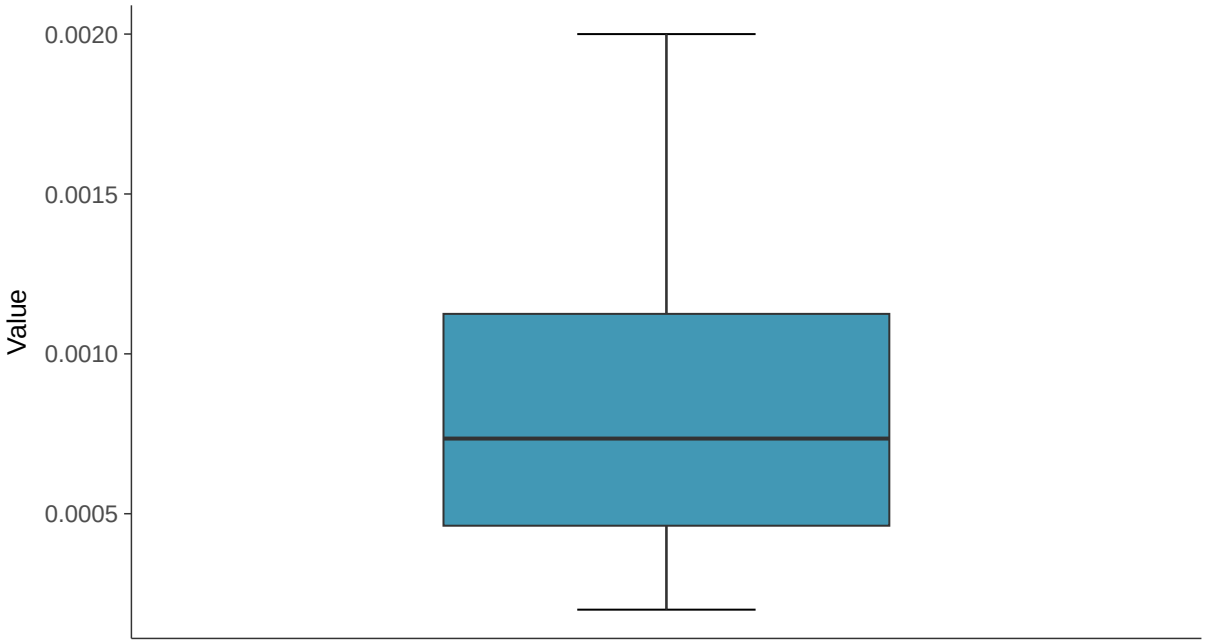
Histogram

Arsenic, MW-10 (mg/L)



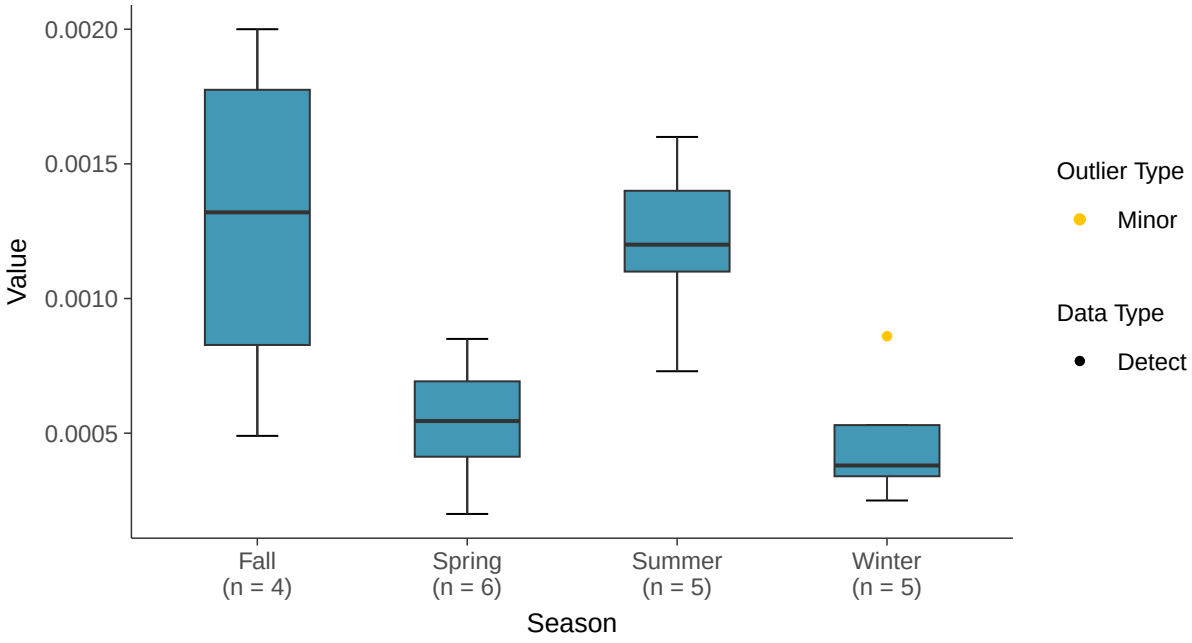
Boxplot

Arsenic, MW-10 (mg/L)



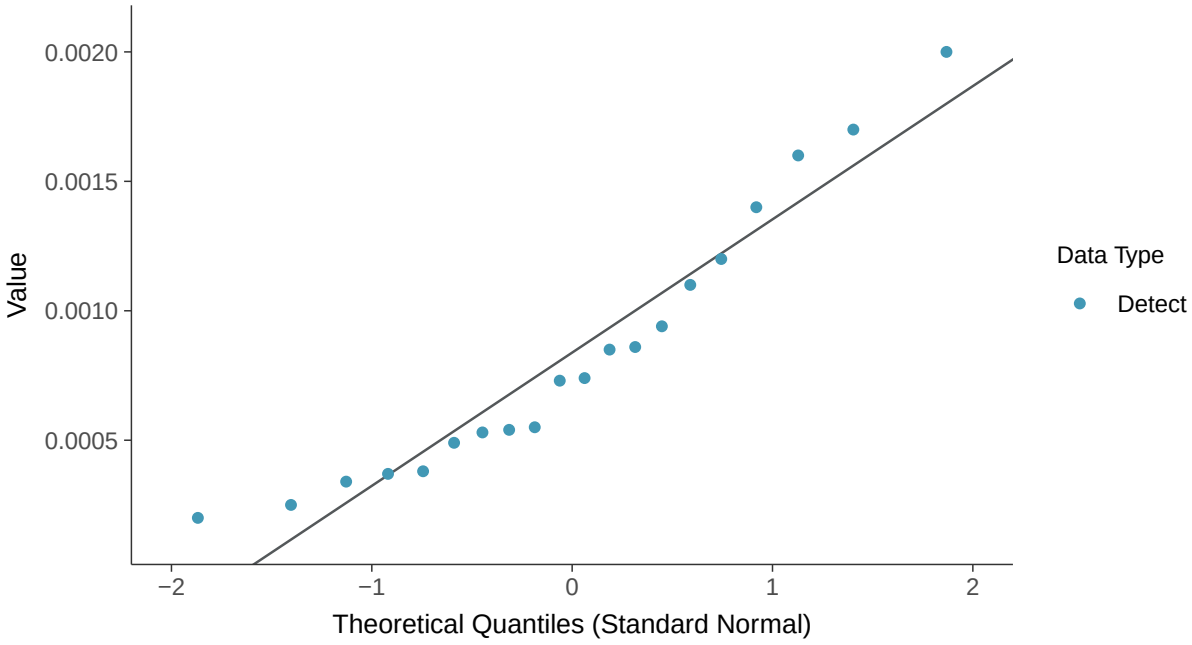
Boxplot by Season

Arsenic, MW-10 (mg/L)



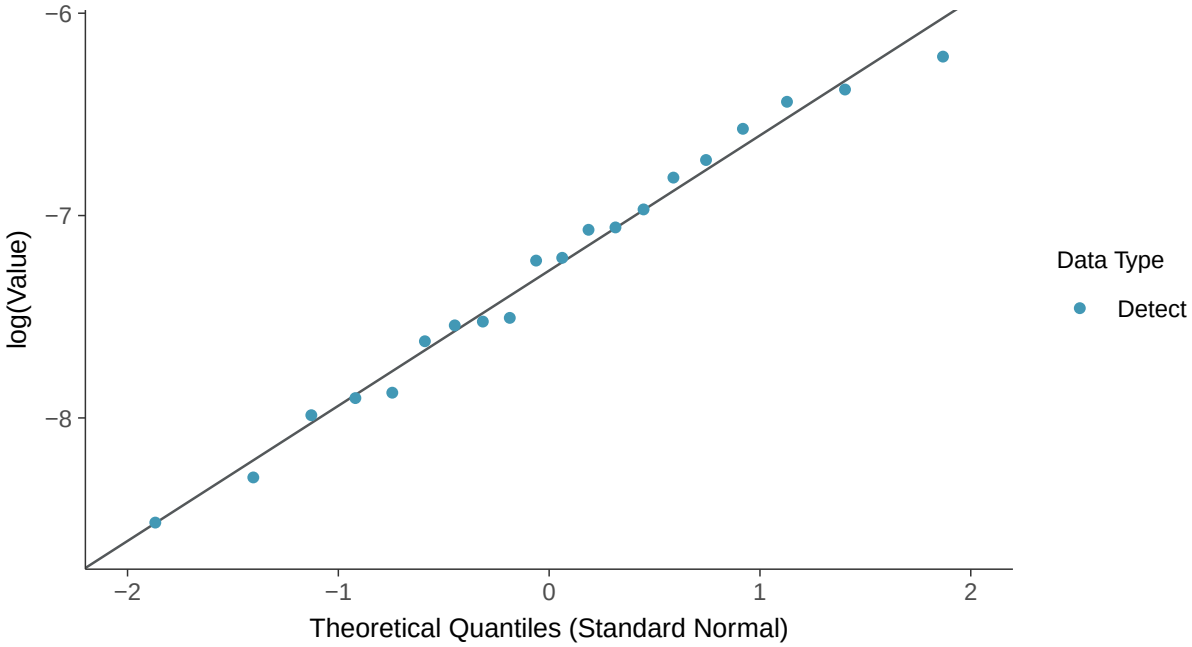
Normal Q-Q plot

Arsenic, MW-10 (mg/L)



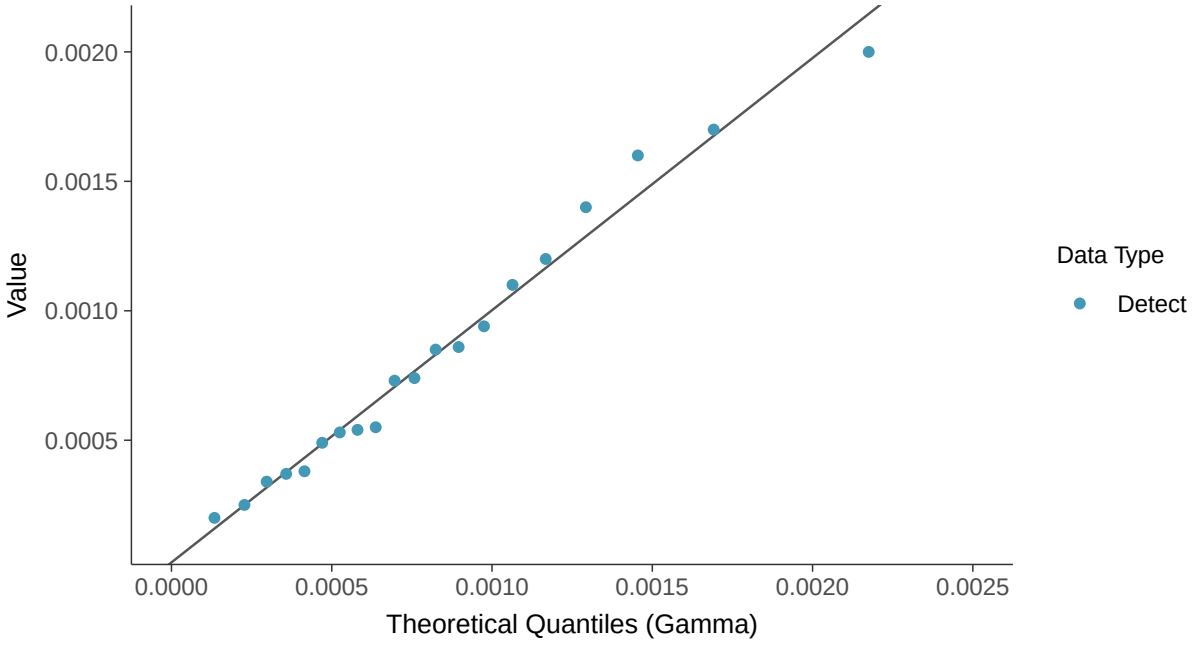
Lognormal Q-Q plot

Arsenic, MW-10 (mg/L)



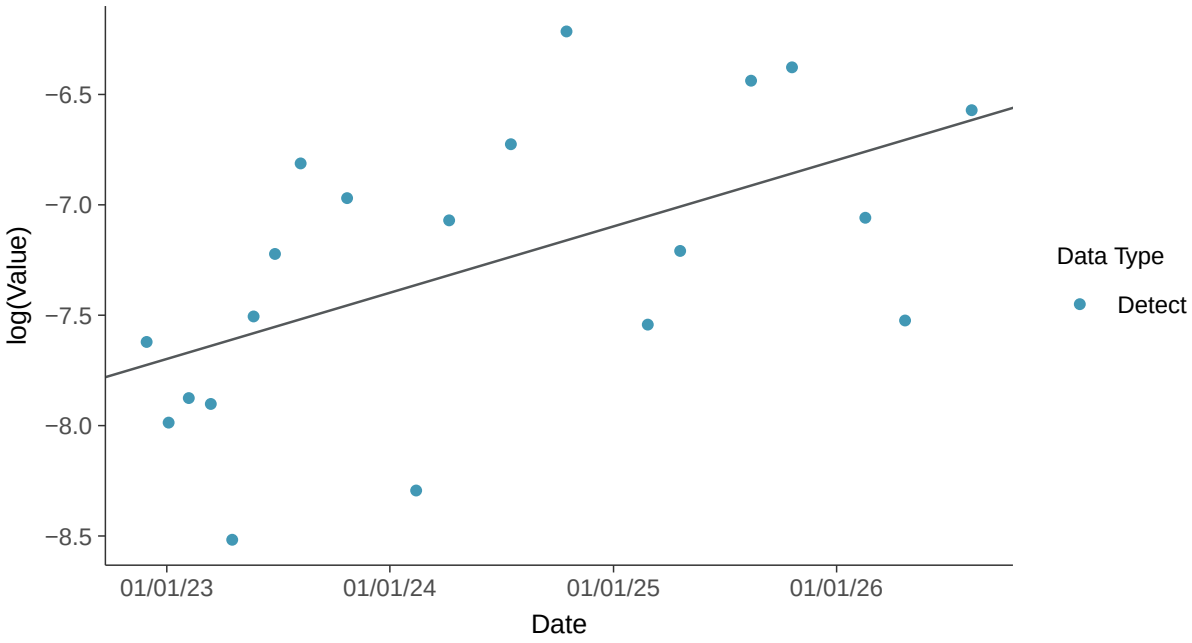
Gamma Q-Q plot

Arsenic, MW-10 (mg/L)



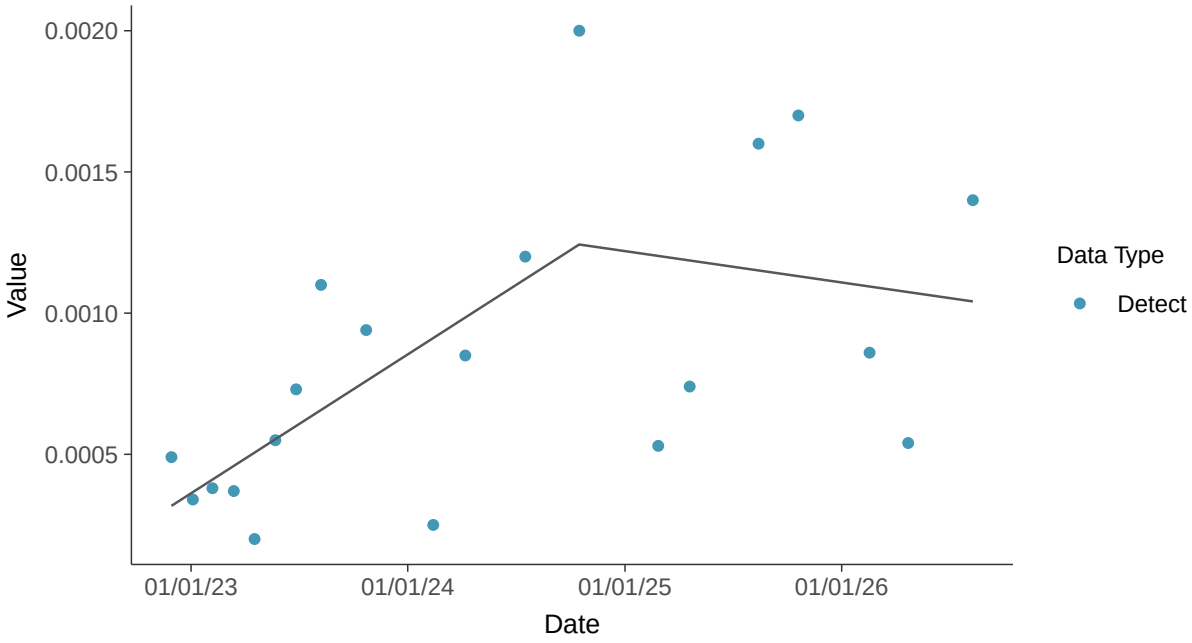
Trend Regression: Lognormal MLE

Arsenic, MW-10 (mg/L)



Trend Regression: Piecewise Linear-Linear

Arsenic, MW-10 (mg/L)

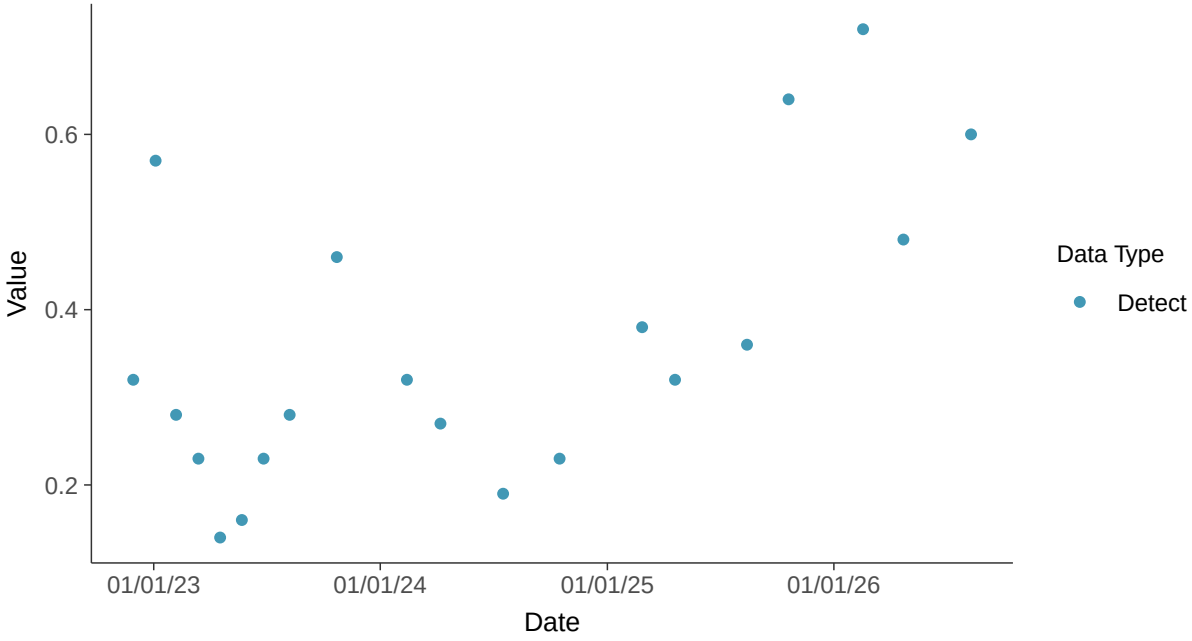


Appendix IV: Barium, MW-10

ID: 20_3_4_103

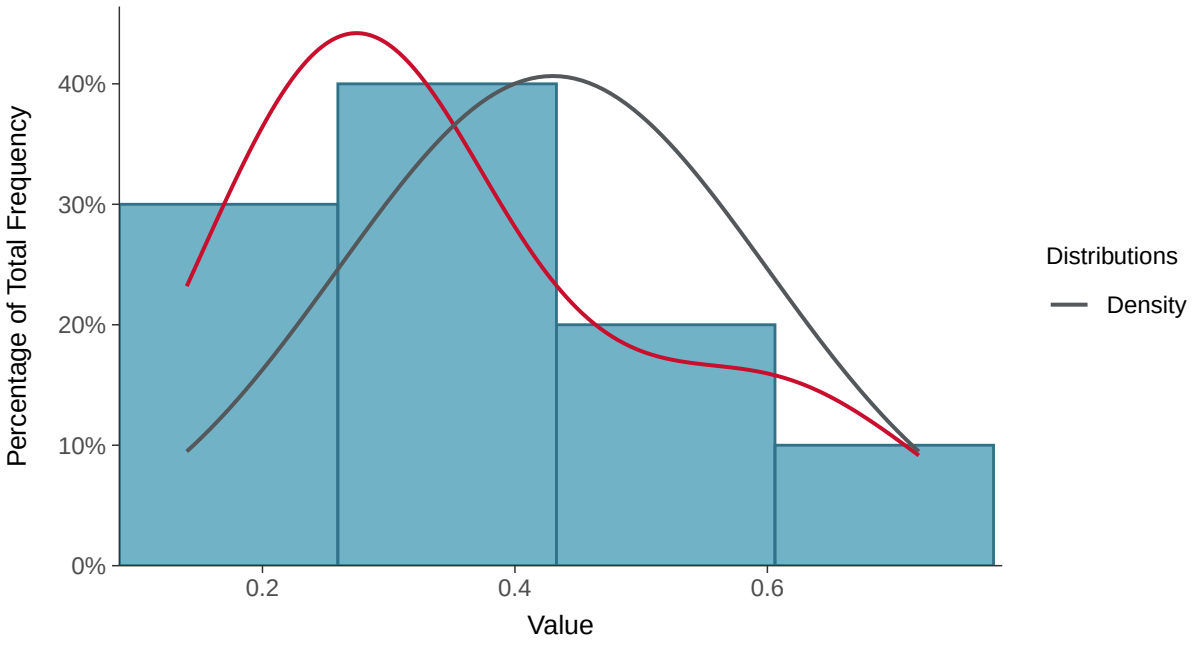
Scatter Plot

Barium, MW-10 (mg/L)



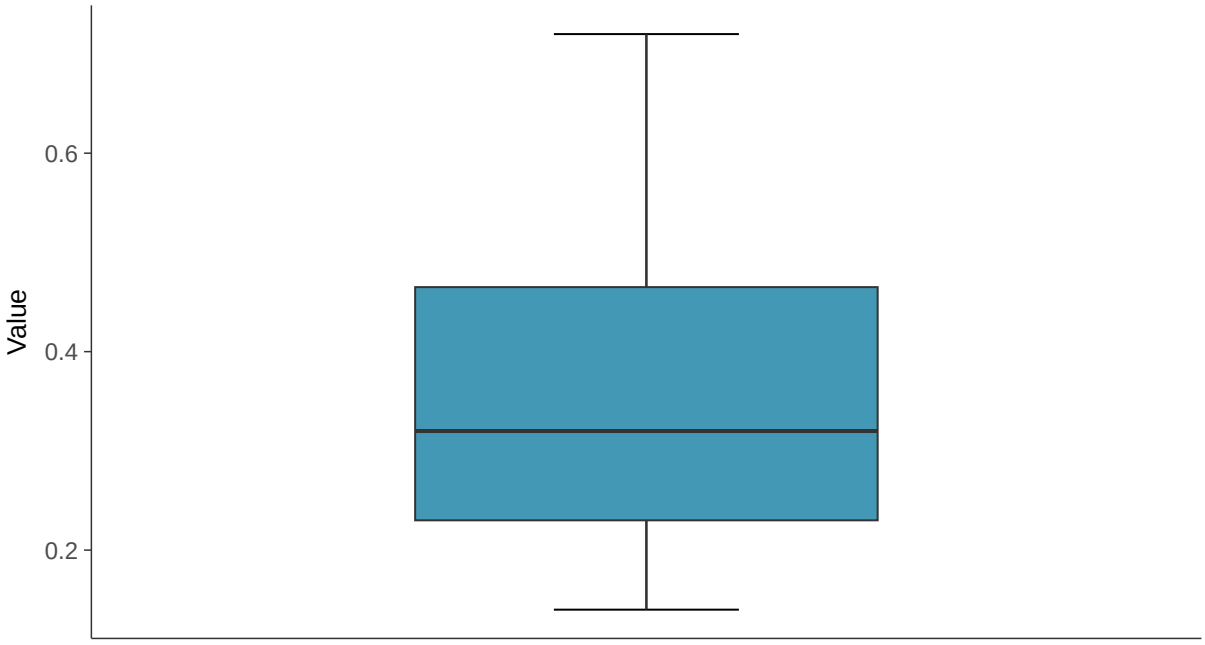
Histogram

Barium, MW-10 (mg/L)



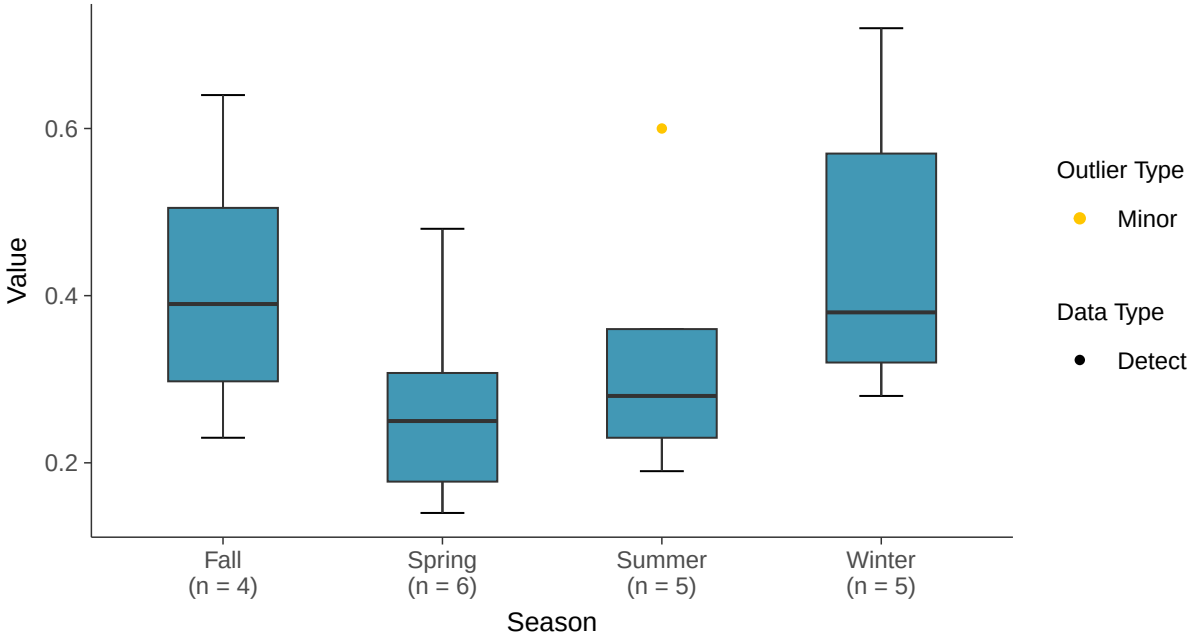
Boxplot

Barium, MW-10 (mg/L)



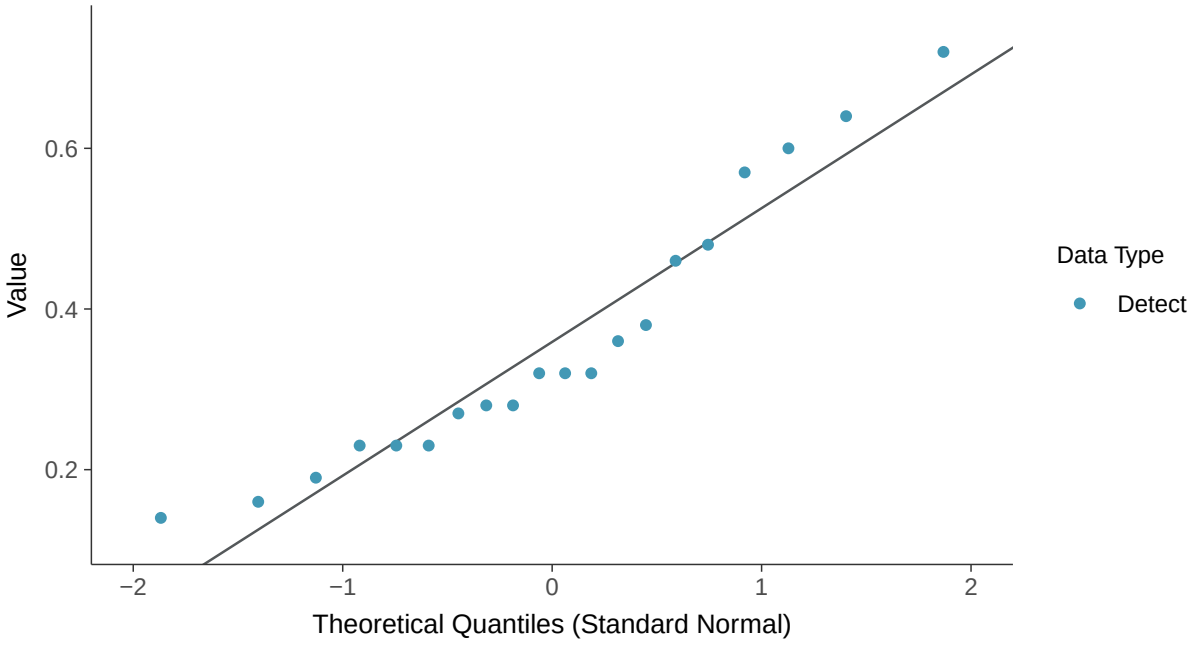
Boxplot by Season

Barium, MW-10 (mg/L)



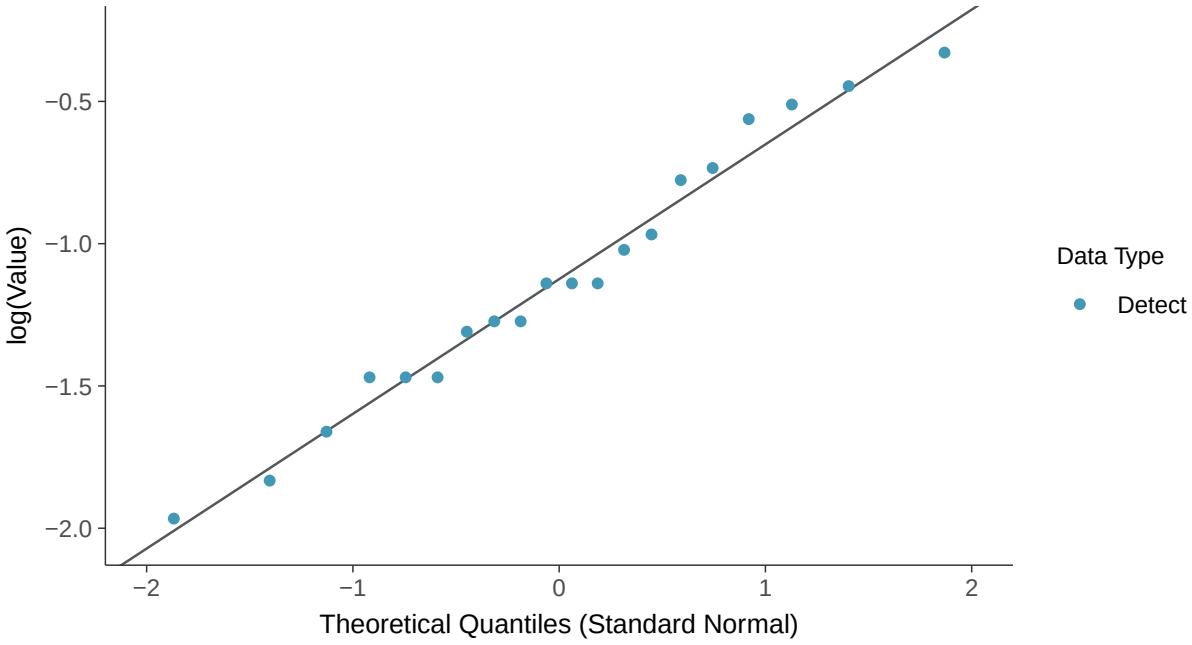
Normal Q-Q plot

Barium, MW-10 (mg/L)



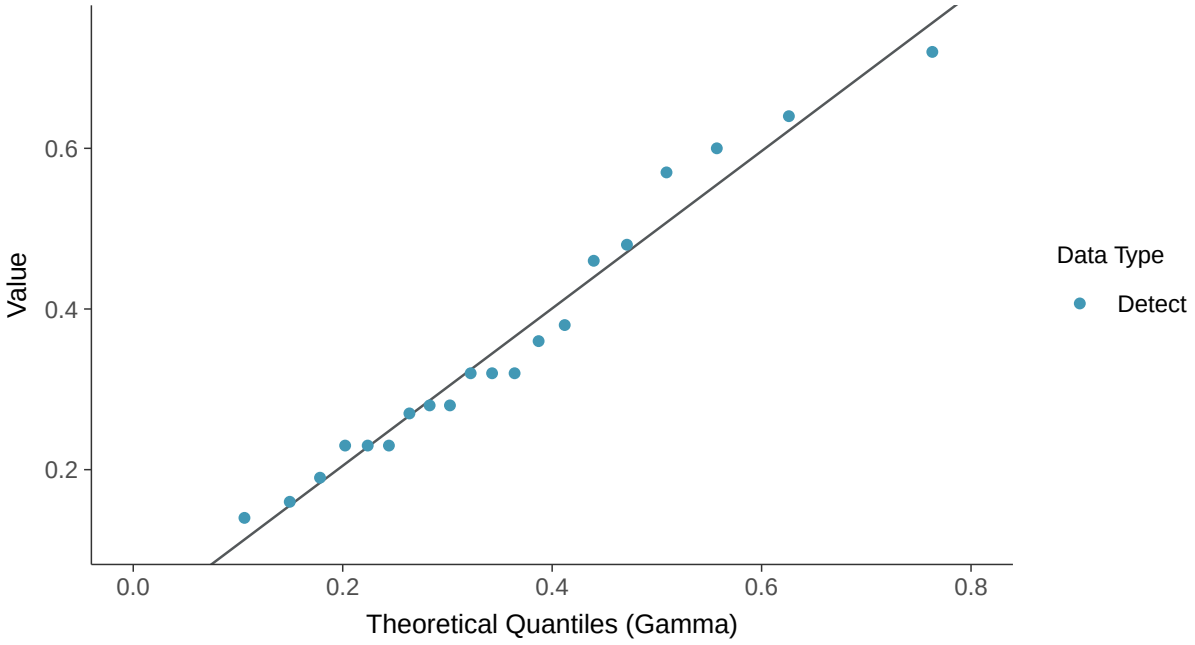
Lognormal Q-Q plot

Barium, MW-10 (mg/L)



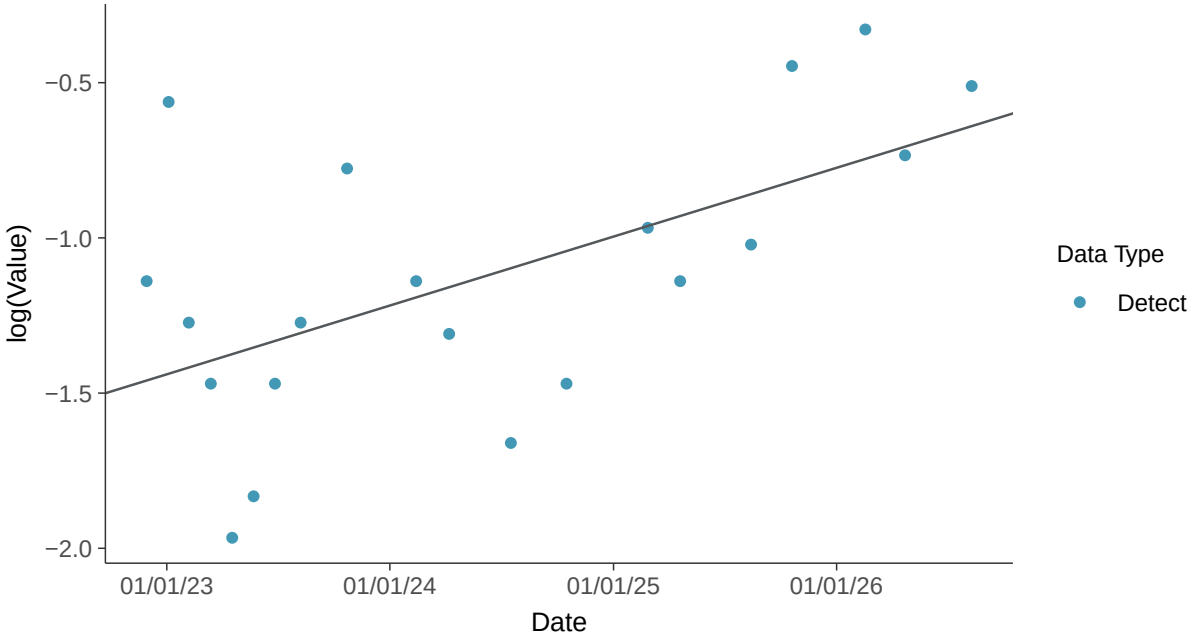
Gamma Q-Q plot

Barium, MW-10 (mg/L)



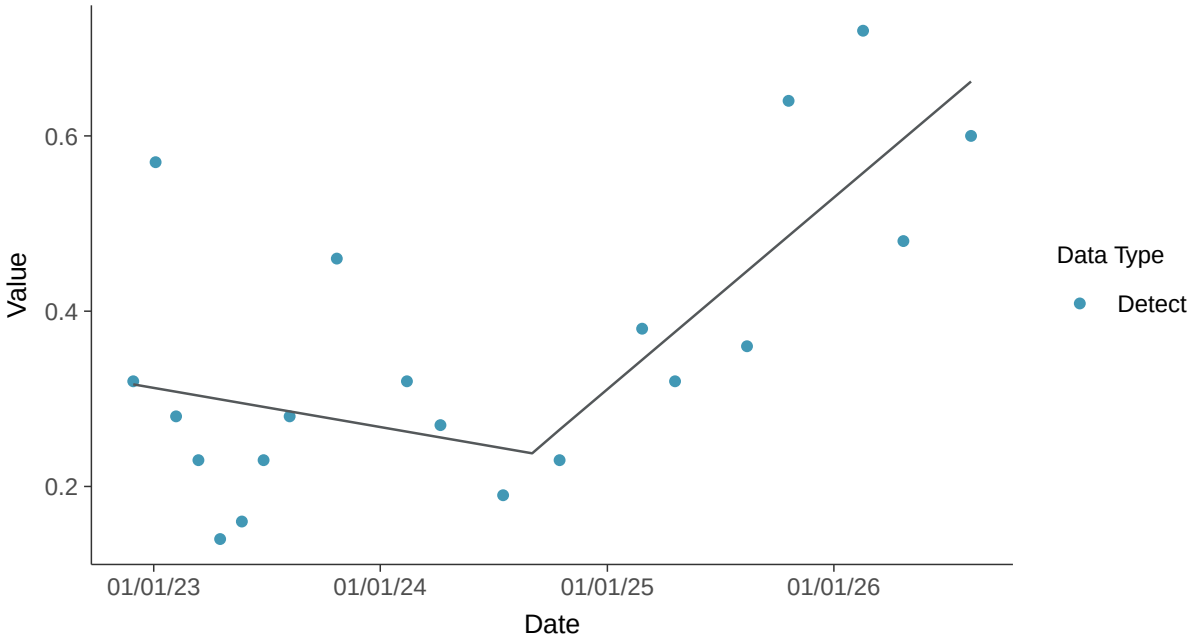
Trend Regression: Lognormal MLE

Barium, MW-10 (mg/L)



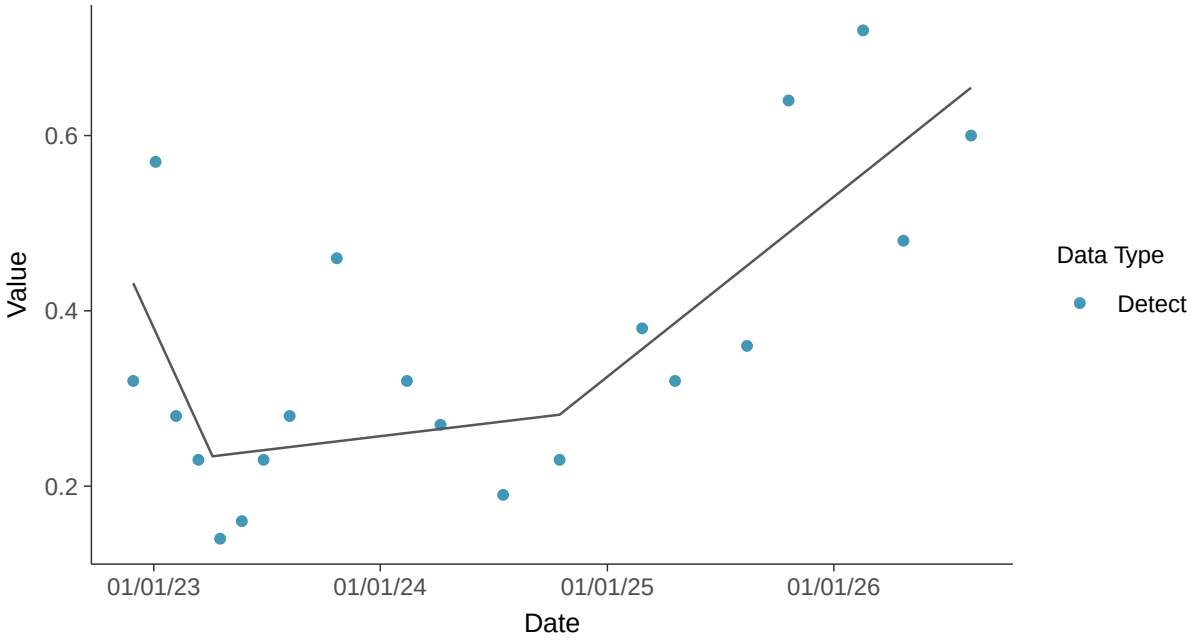
Trend Regression: Piecewise Linear-Linear

Barium, MW-10 (mg/L)



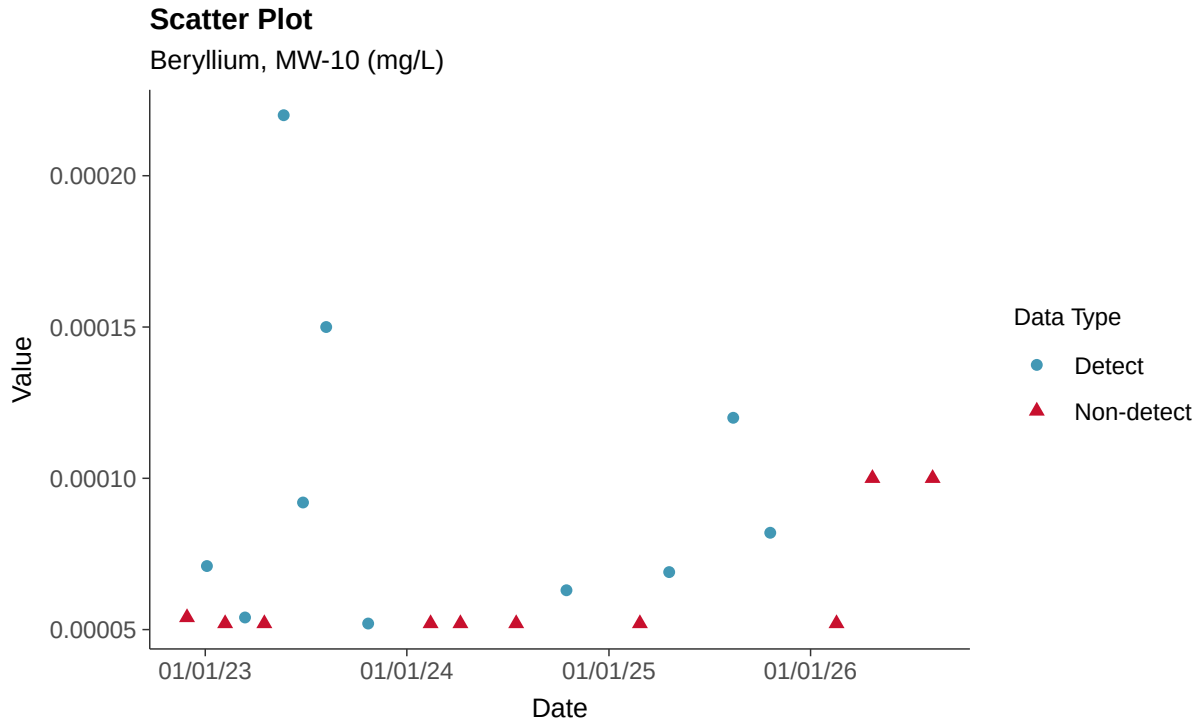
Trend Regression: Piecewise Linear-Linear-Linear

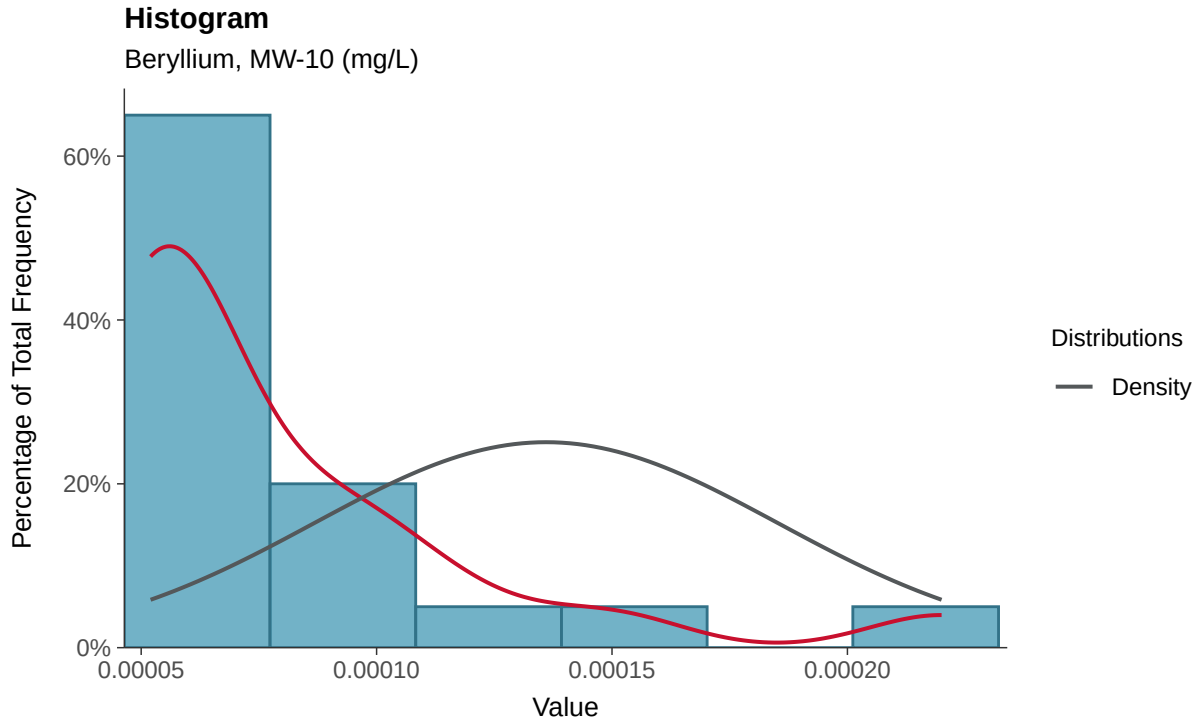
Barium, MW-10 (mg/L)



Appendix IV: Beryllium, MW-10

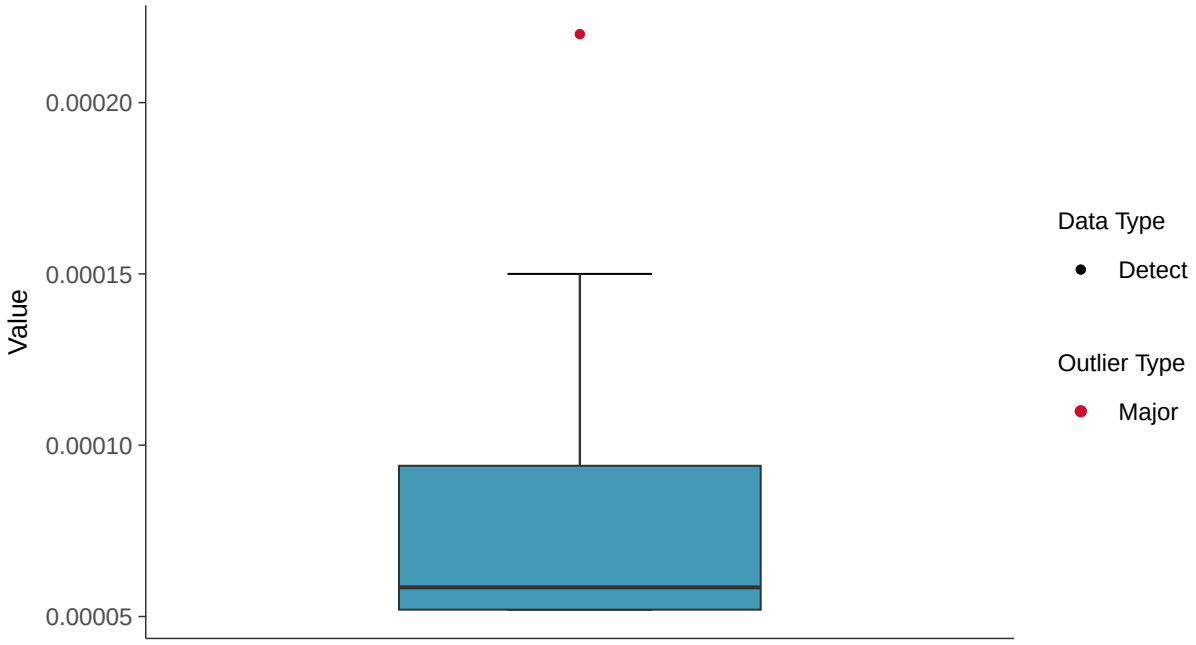
ID: 20_3_4_104





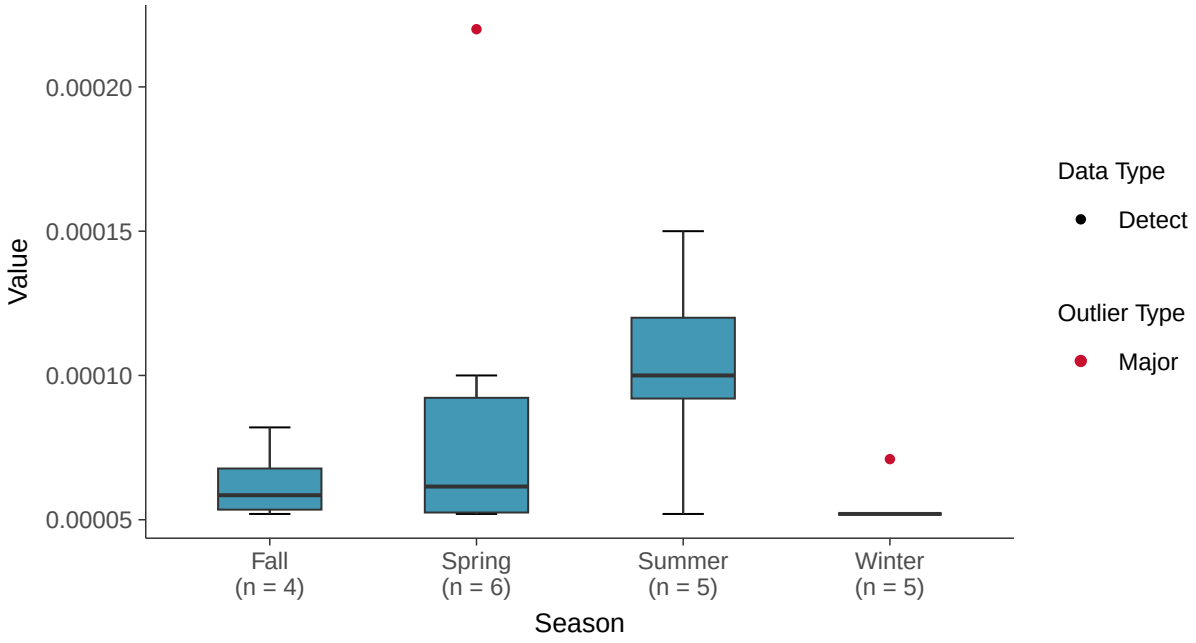
Boxplot

Beryllium, MW-10 (mg/L)



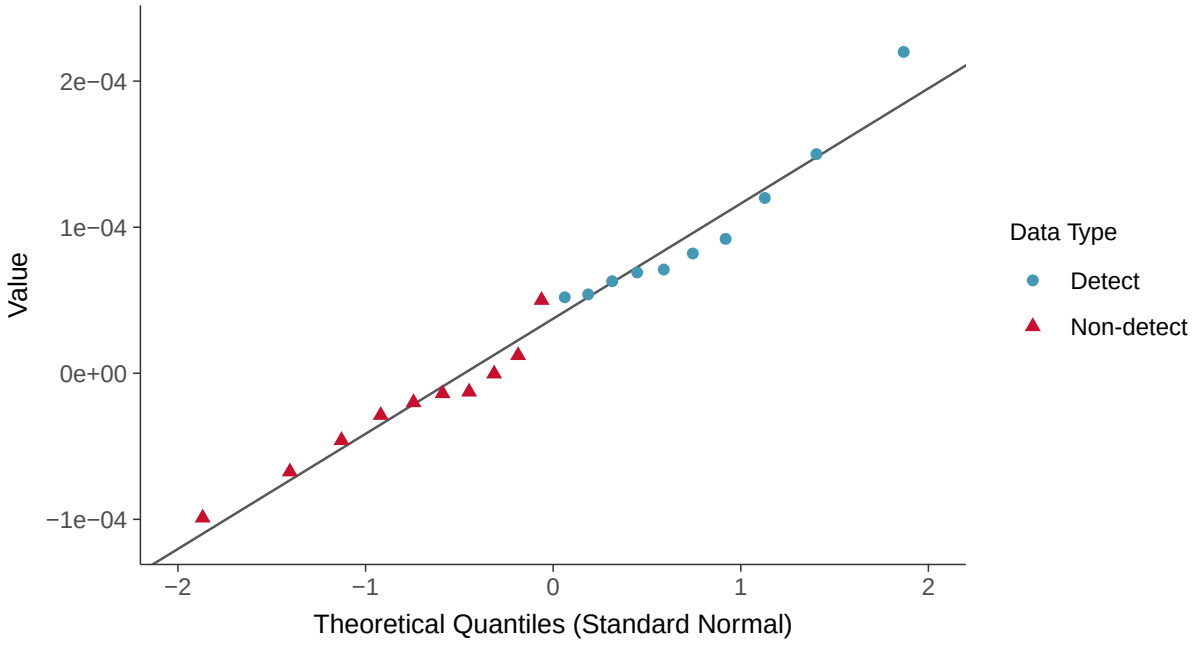
Boxplot by Season

Beryllium, MW-10 (mg/L)



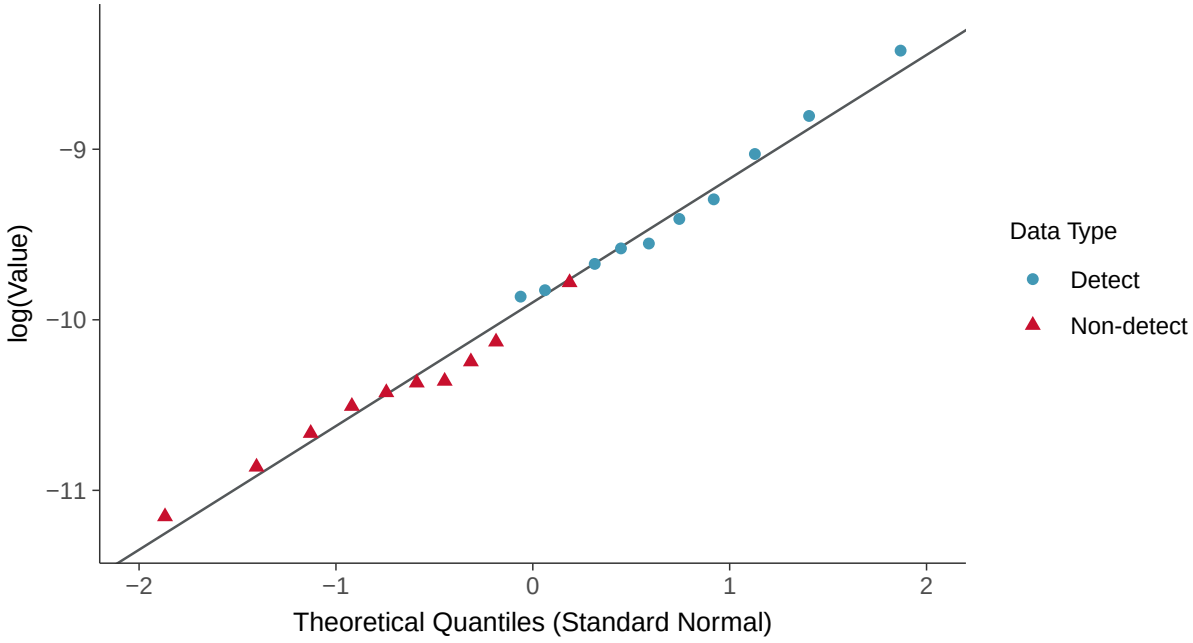
Normal Q-Q plot using ROS Imputed Estimates

Beryllium, MW-10 (mg/L)



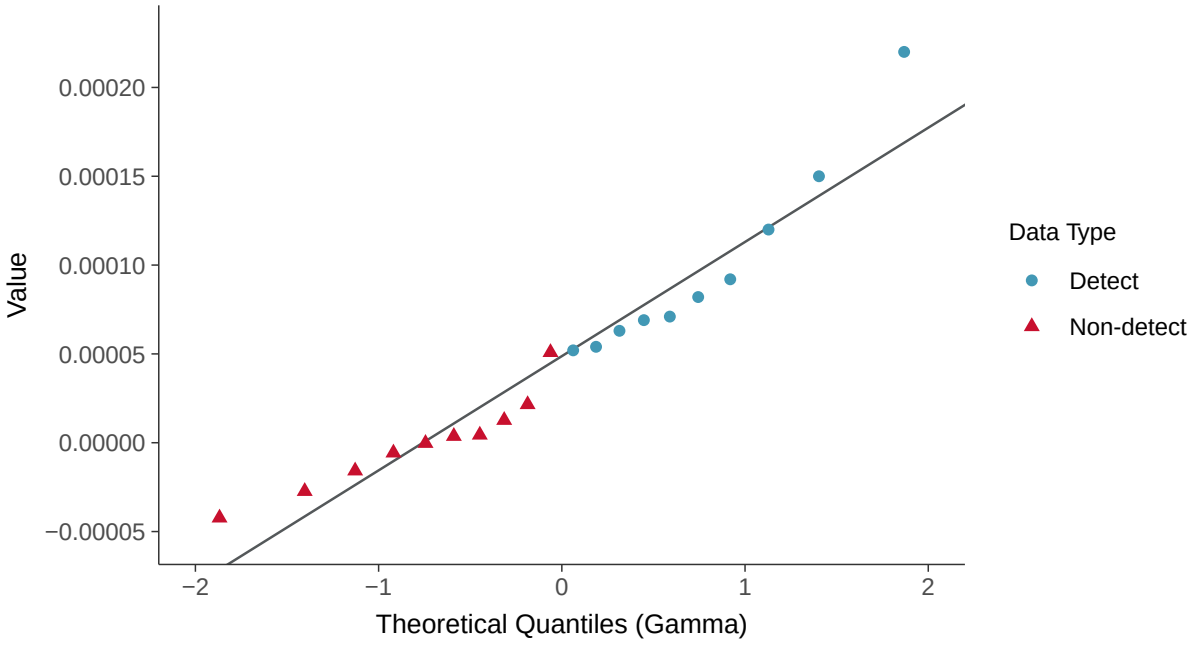
Lognormal Q-Q plot using ROS Imputed Estimates

Beryllium, MW-10 (mg/L)



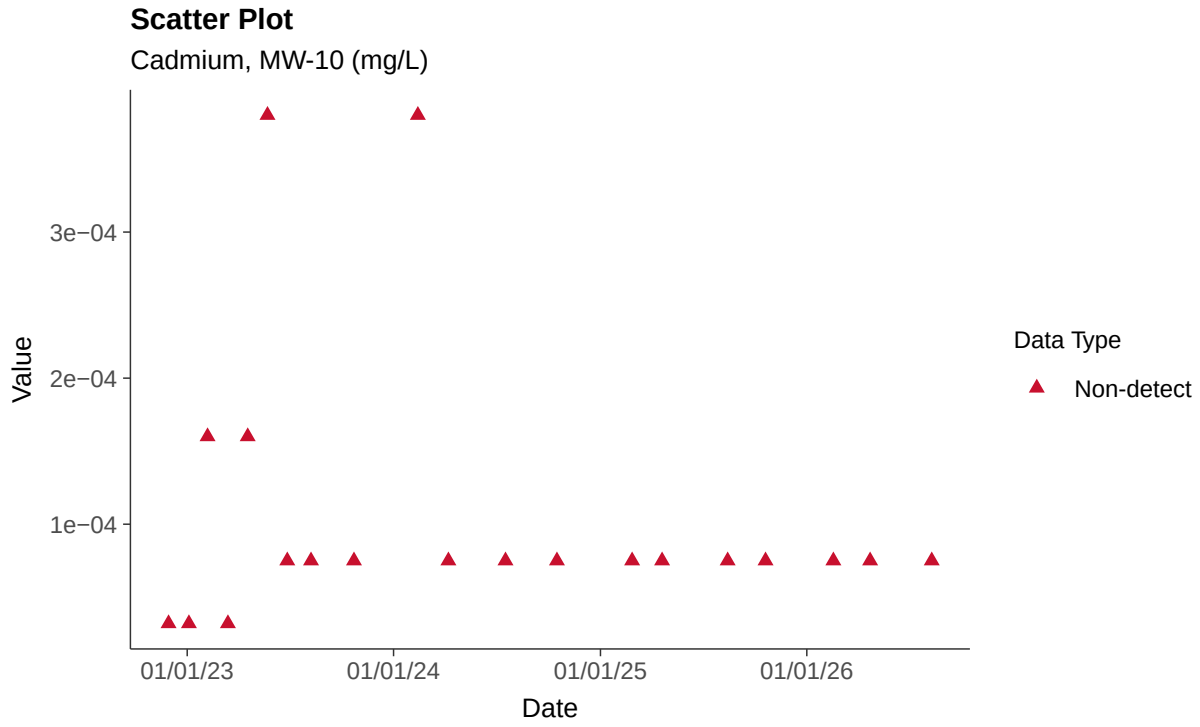
Gamma Q-Q plot using ROS Imputed Estimates

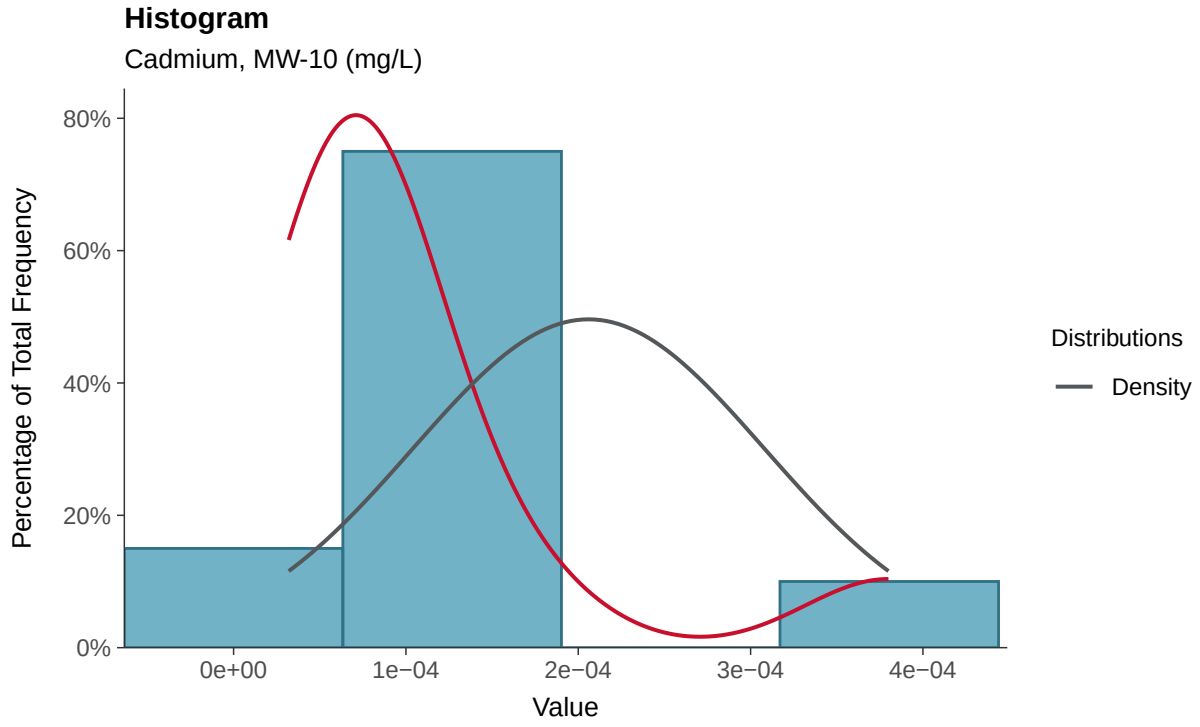
Beryllium, MW-10 (mg/L)



Appendix IV: Cadmium, MW-10

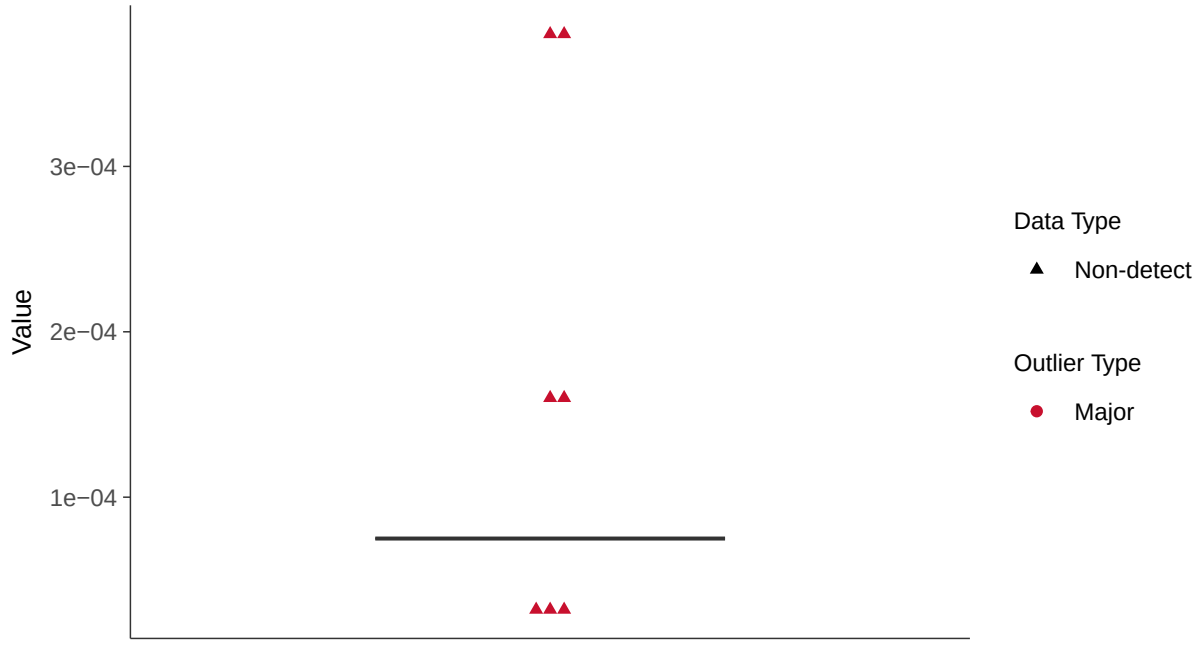
ID: 20_3_4_106





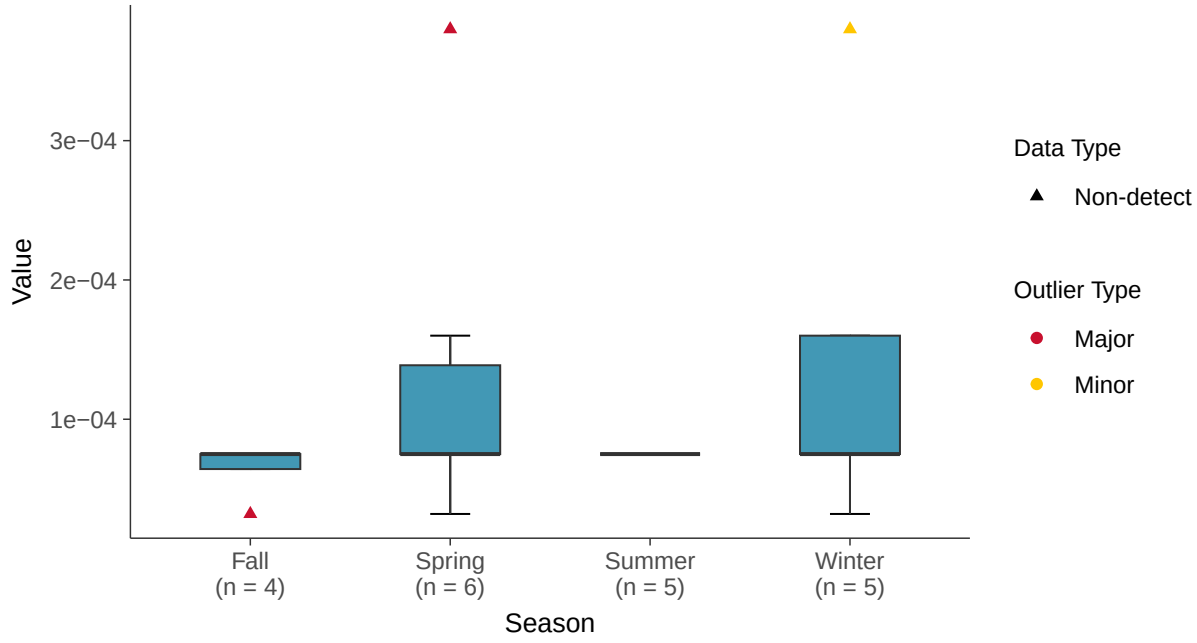
Boxplot

Cadmium, MW-10 (mg/L)



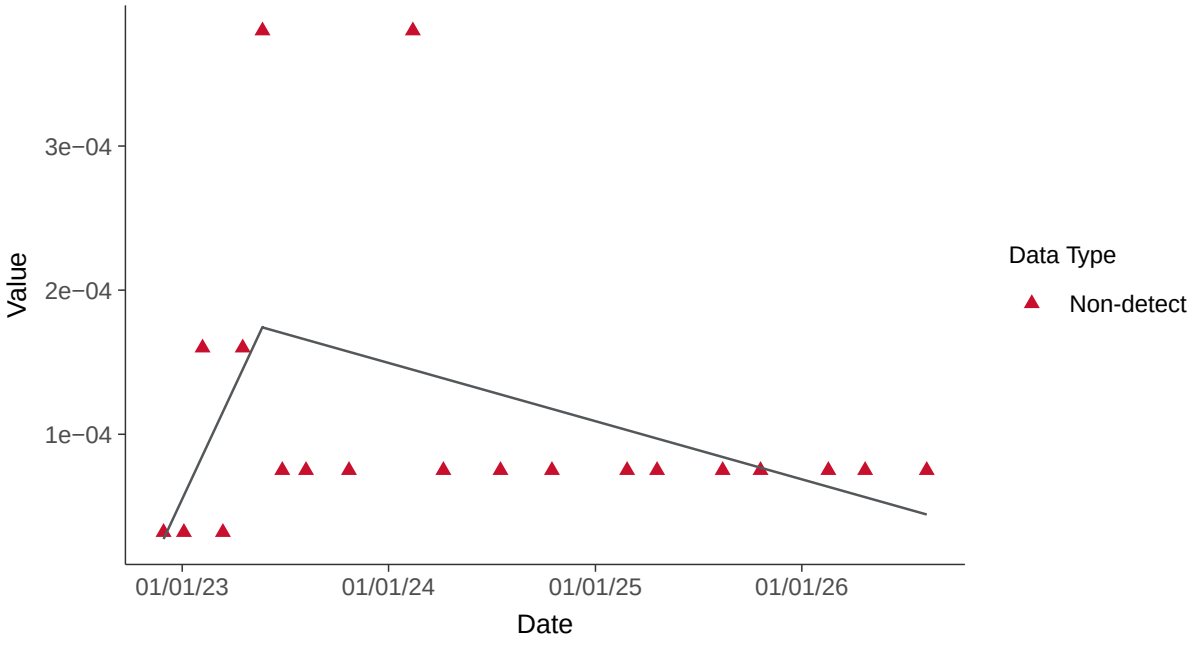
Boxplot by Season

Cadmium, MW-10 (mg/L)



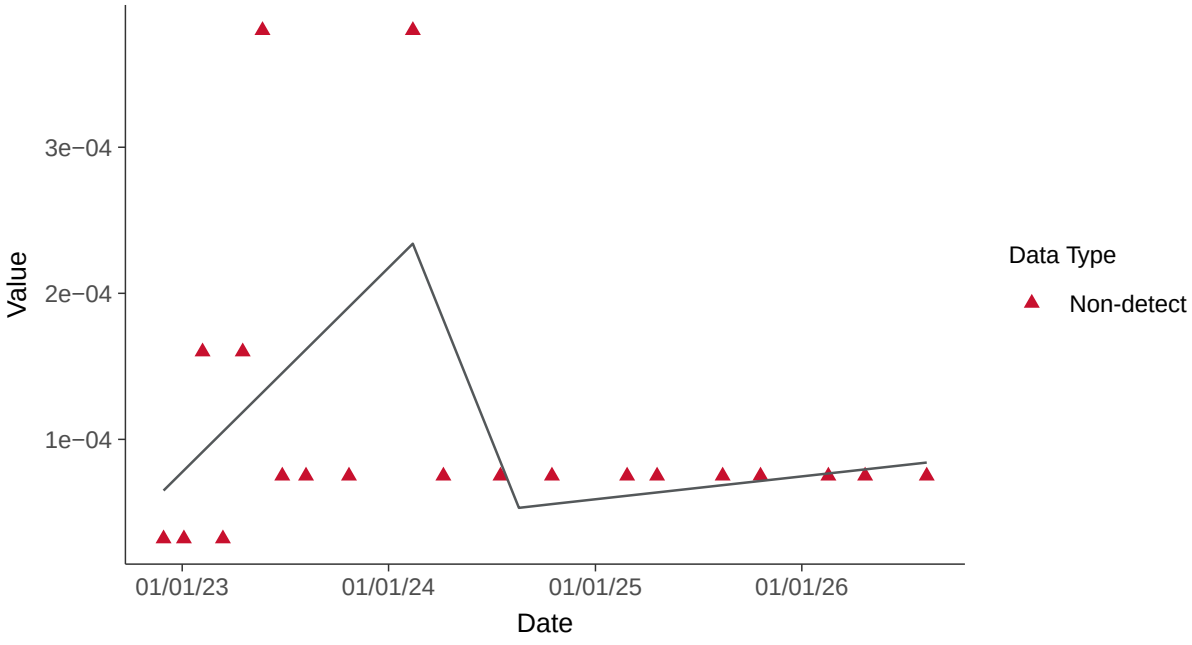
Trend Regression: Piecewise Linear-Linear

Cadmium, MW-10 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Cadmium, MW-10 (mg/L)

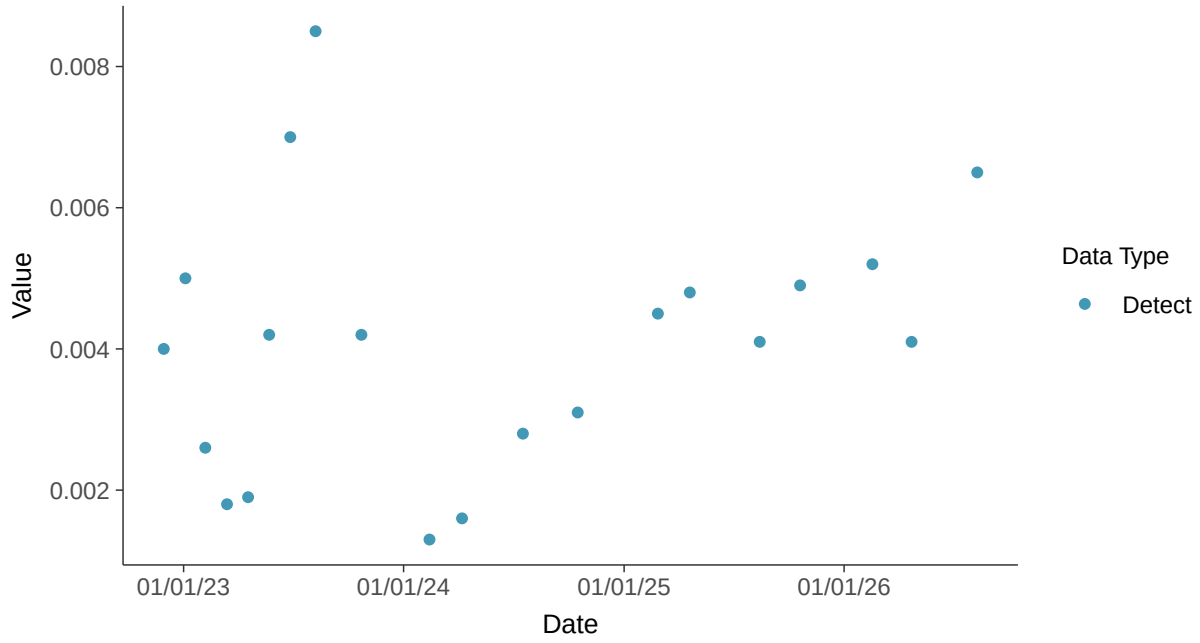


Appendix IV: Chromium, Total, MW-10

ID: 20_3_4_109

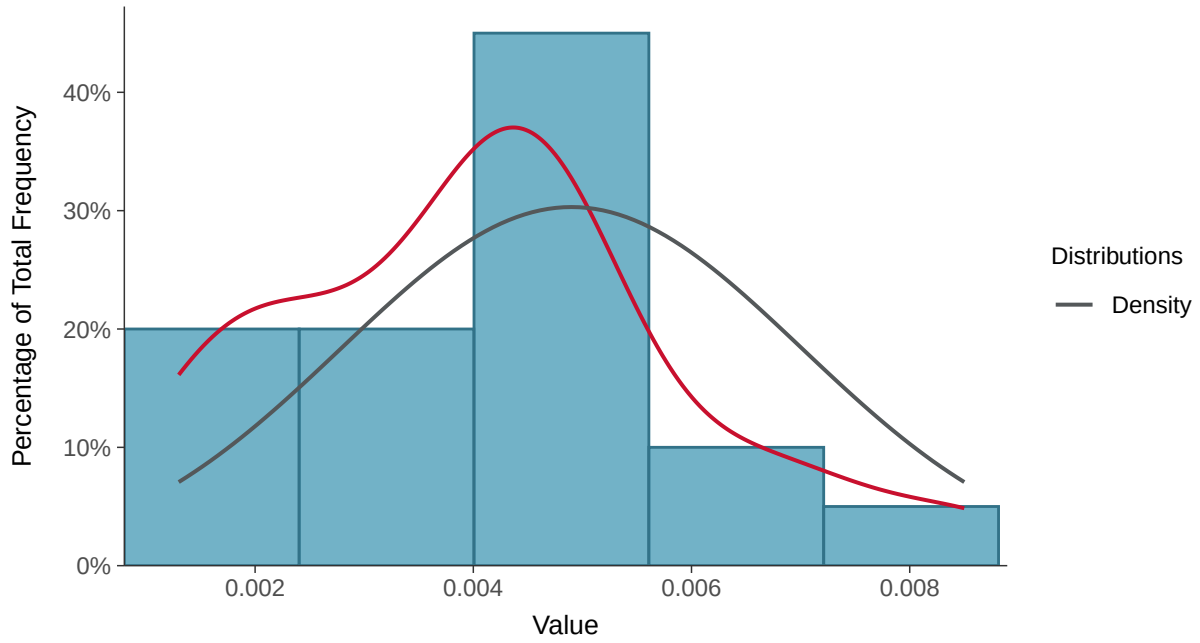
Scatter Plot

Chromium, Total, MW-10 (mg/L)



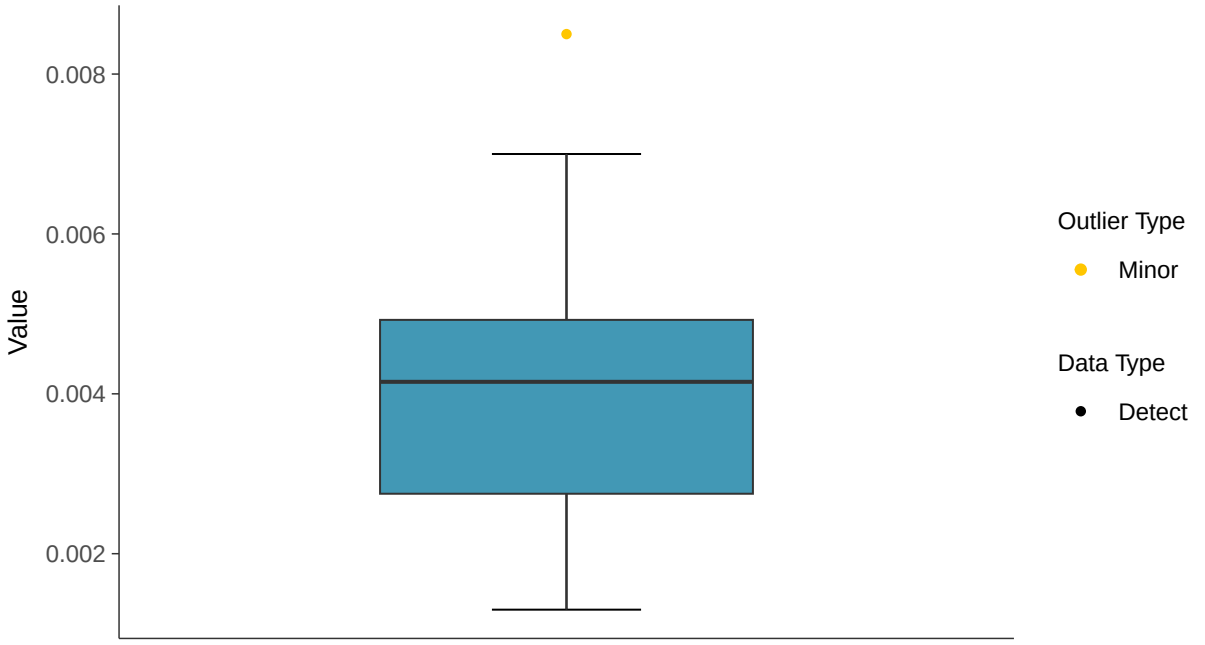
Histogram

Chromium, Total, MW-10 (mg/L)



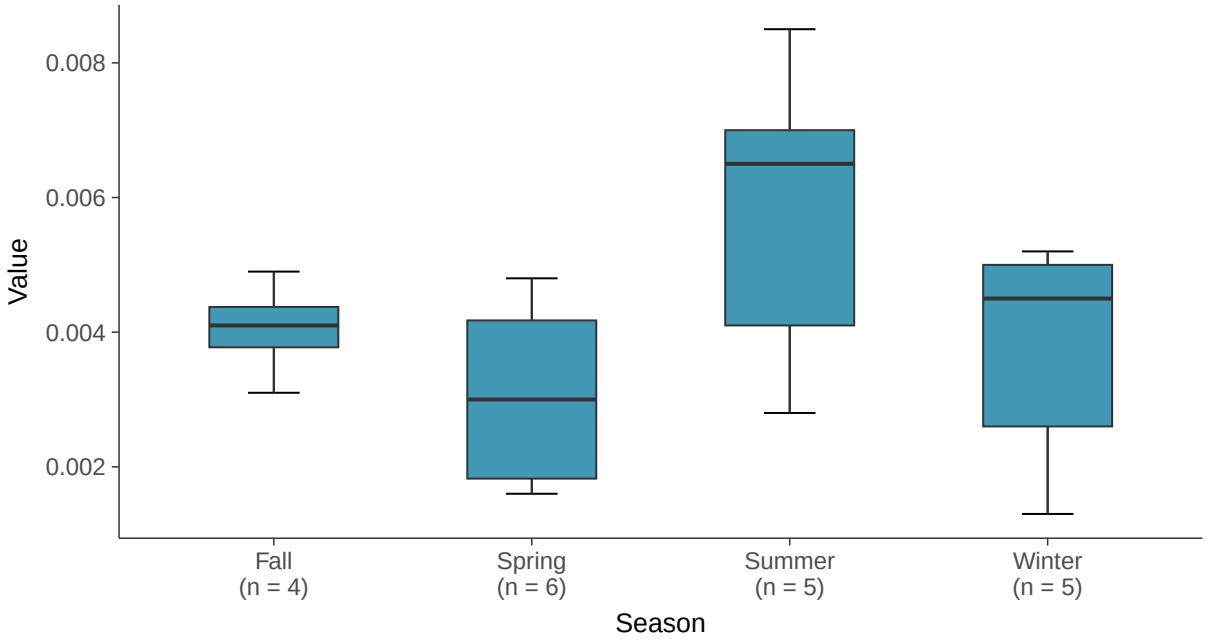
Boxplot

Chromium, Total, MW-10 (mg/L)



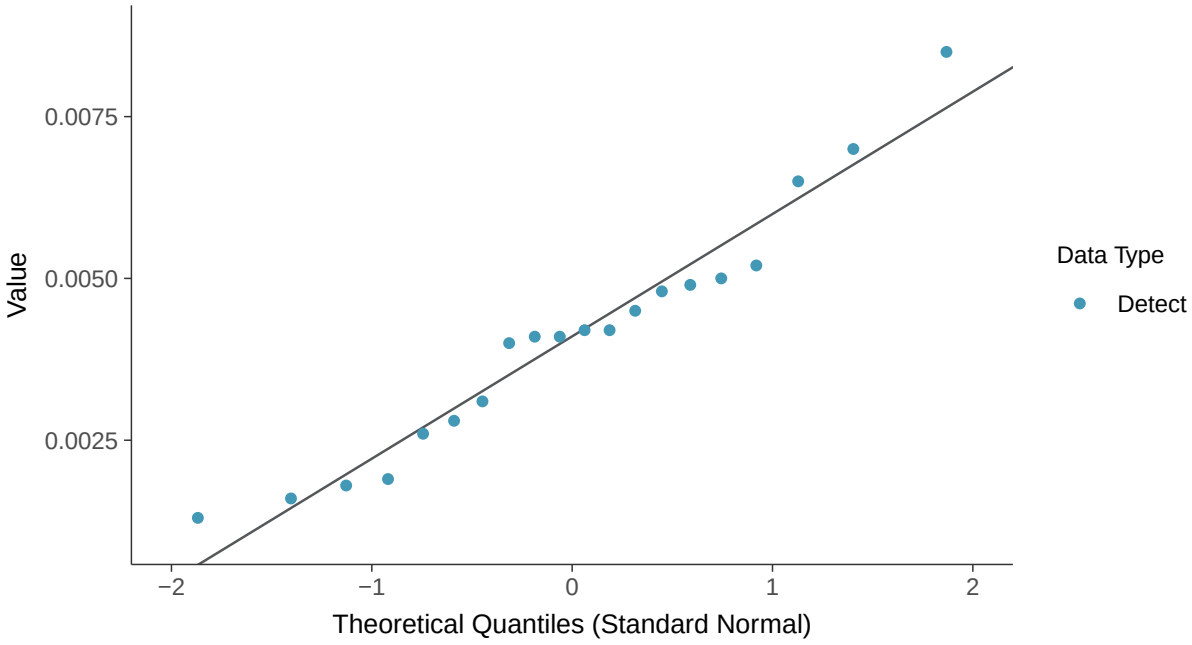
Boxplot by Season

Chromium, Total, MW-10 (mg/L)



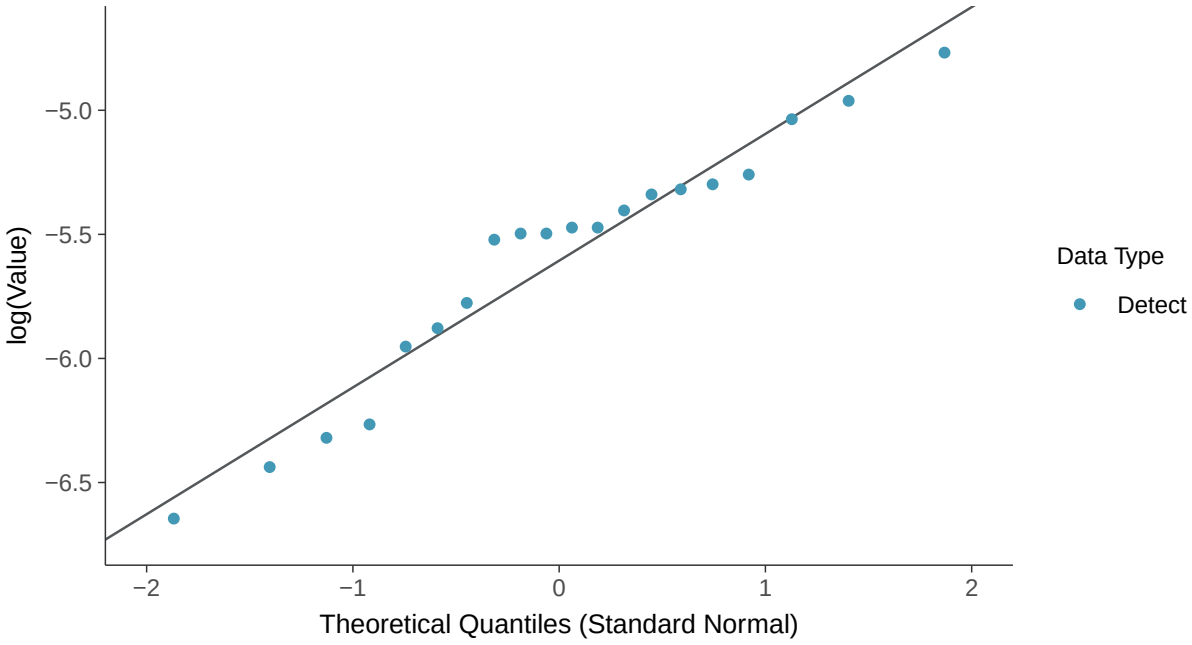
Normal Q-Q plot

Chromium, Total, MW-10 (mg/L)



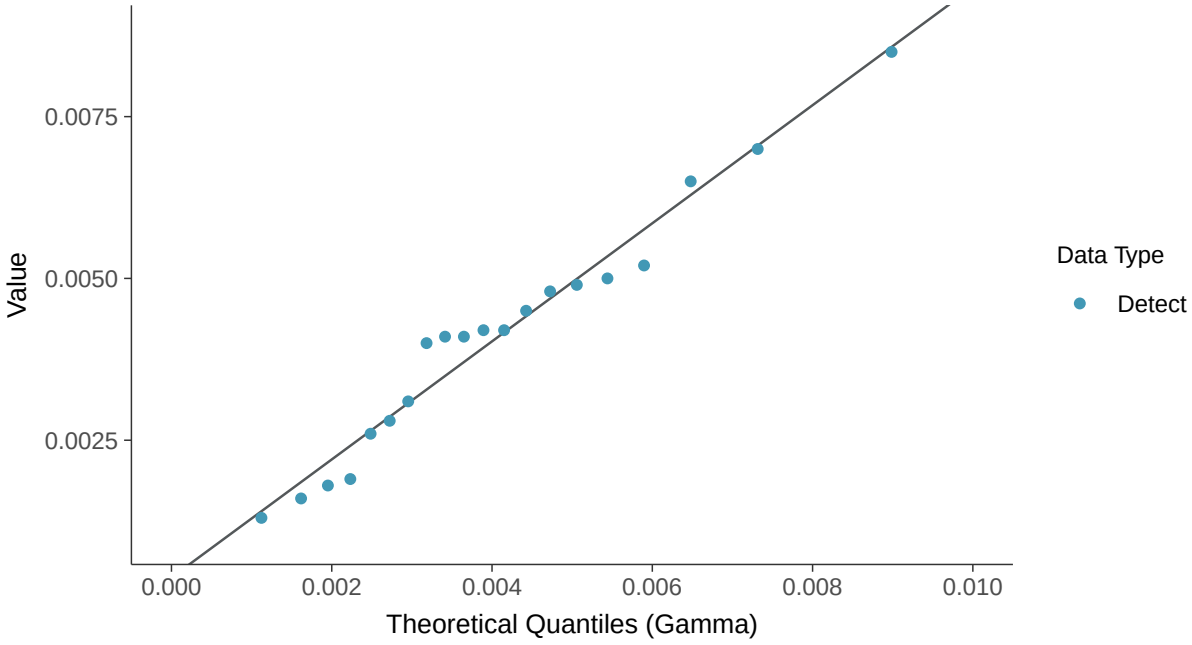
Lognormal Q-Q plot

Chromium, Total, MW-10 (mg/L)



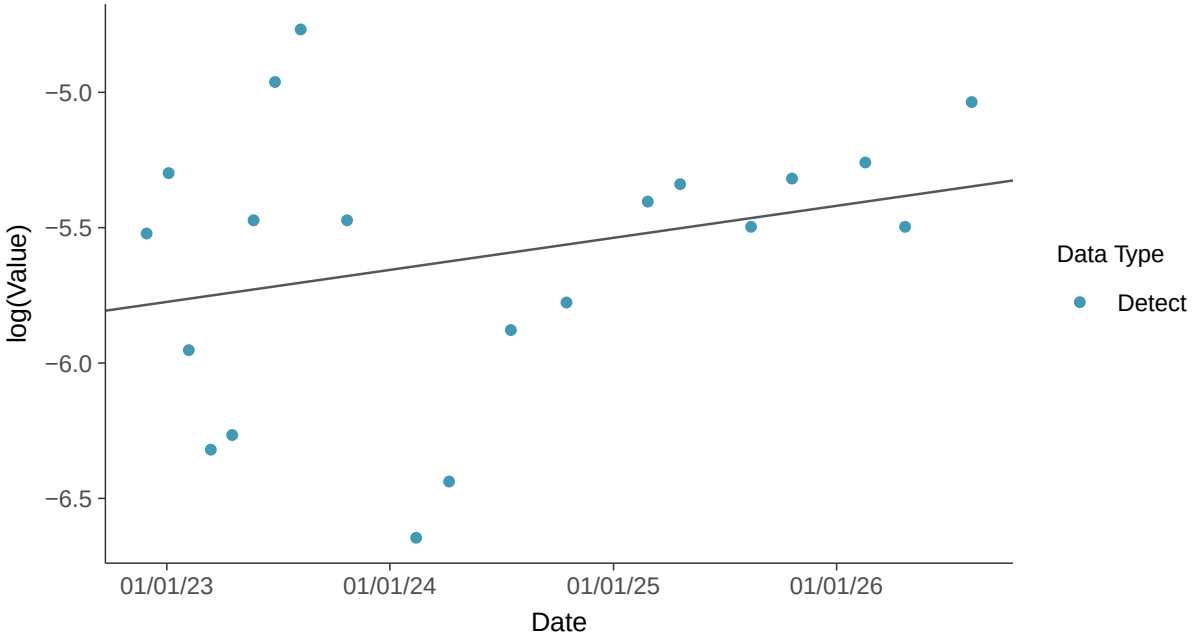
Gamma Q-Q plot

Chromium, Total, MW-10 (mg/L)



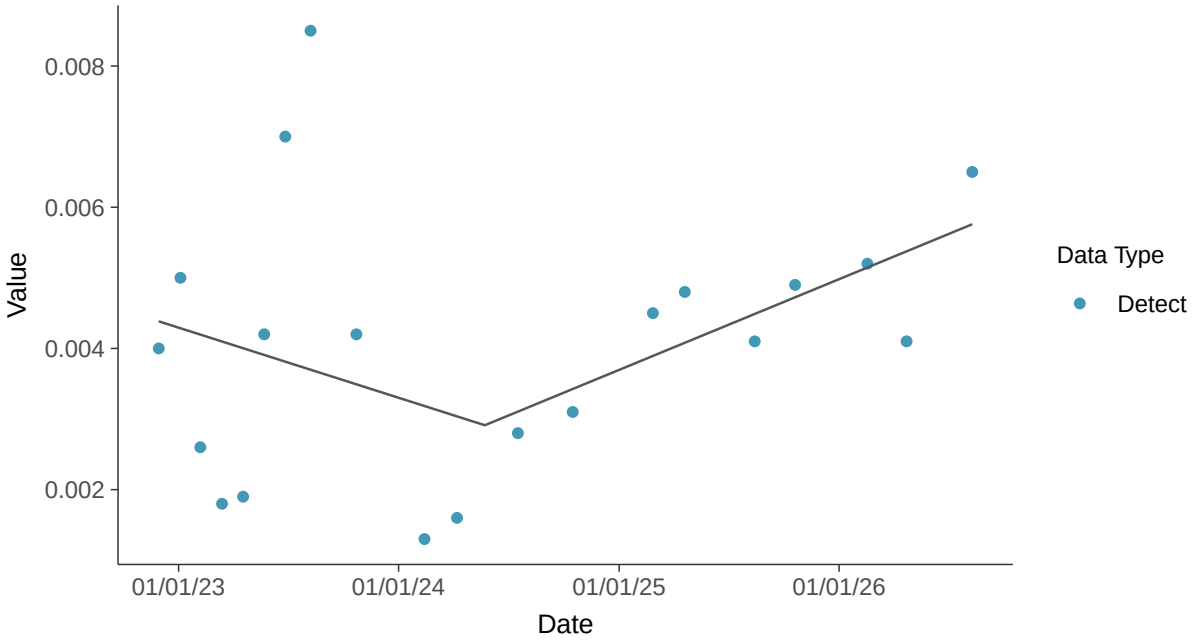
Trend Regression: Lognormal MLE

Chromium, Total, MW-10 (mg/L)



Trend Regression: Piecewise Linear-Linear

Chromium, Total, MW-10 (mg/L)

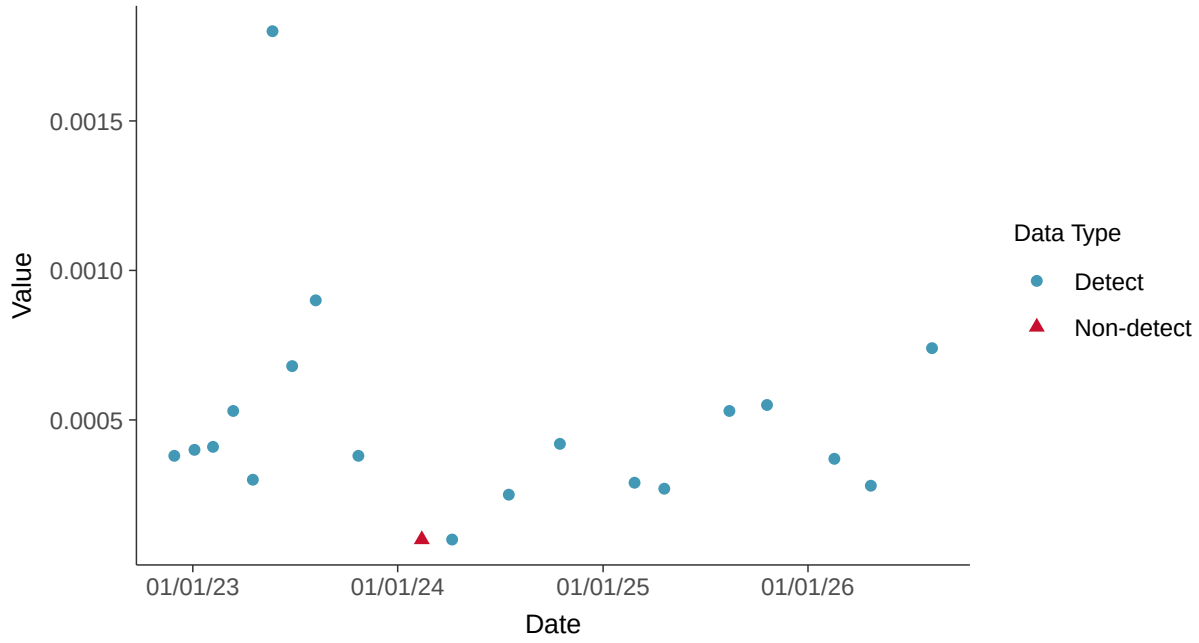


Appendix IV: Cobalt, MW-10

ID: 20_3_4_110

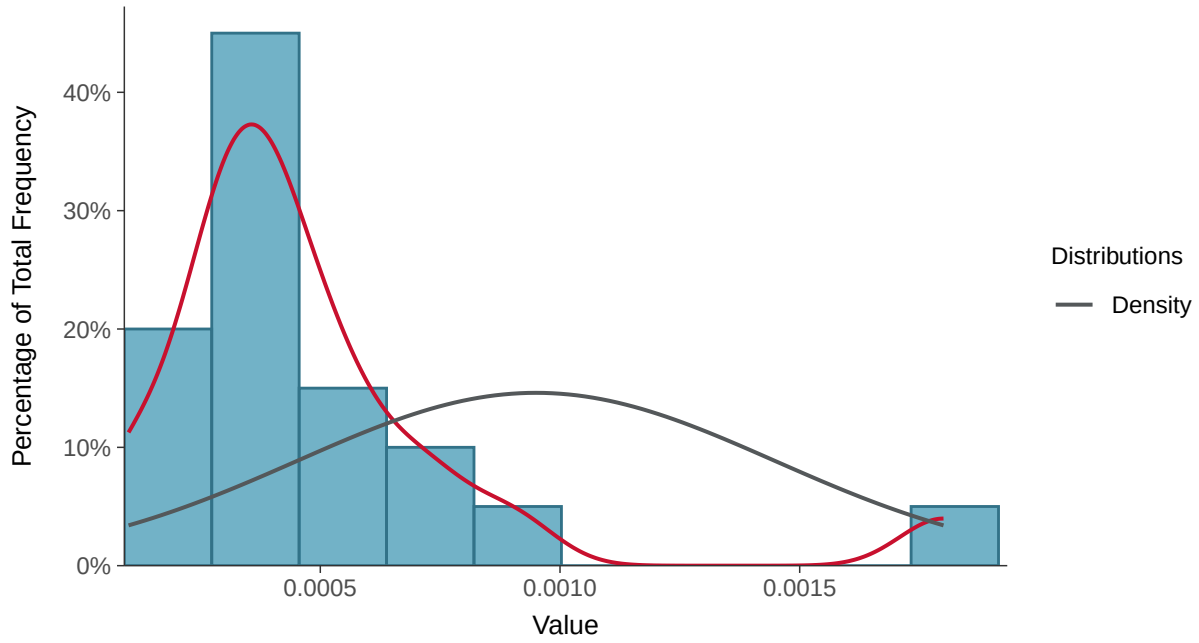
Scatter Plot

Cobalt, MW-10 (mg/L)



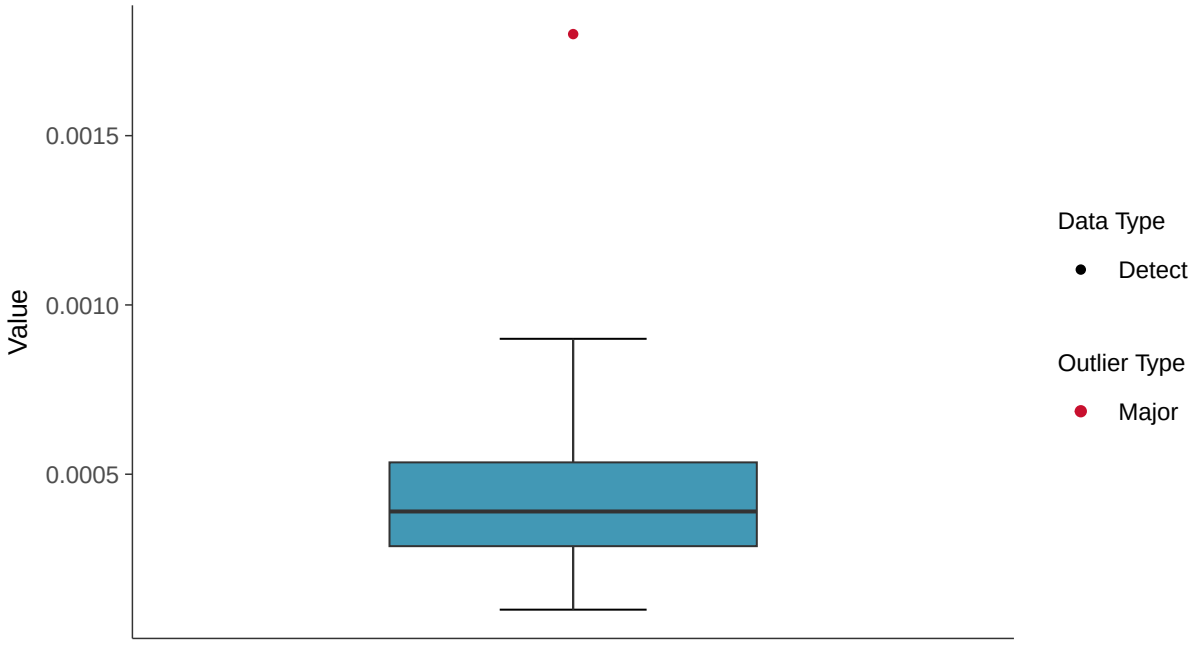
Histogram

Cobalt, MW-10 (mg/L)



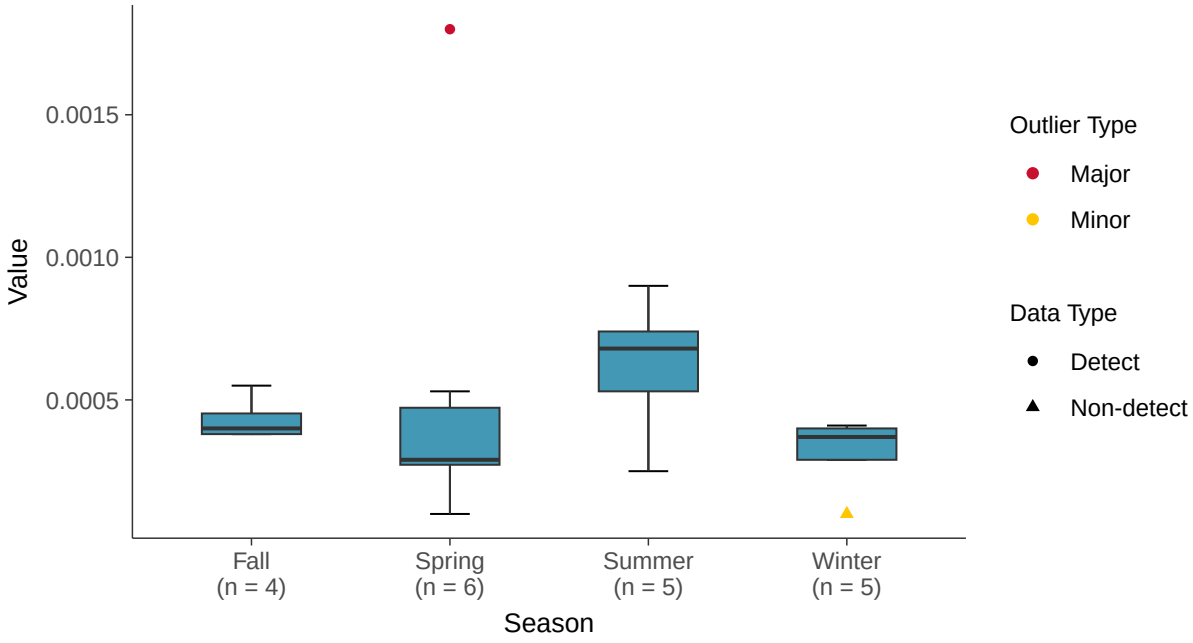
Boxplot

Cobalt, MW-10 (mg/L)



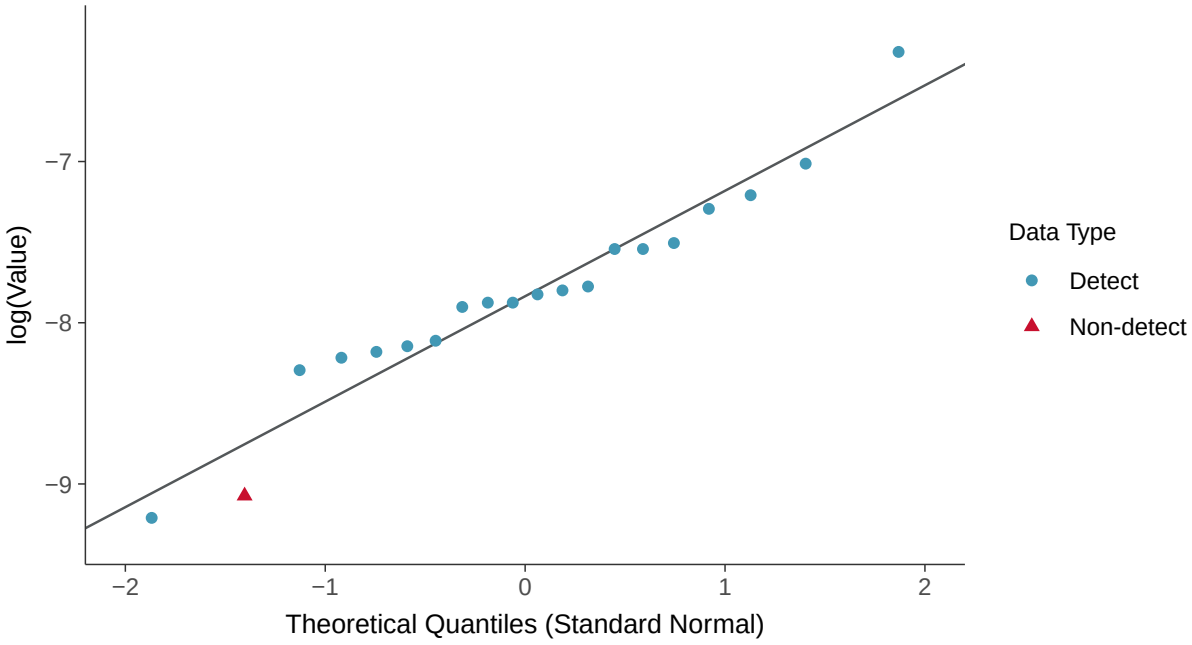
Boxplot by Season

Cobalt, MW-10 (mg/L)



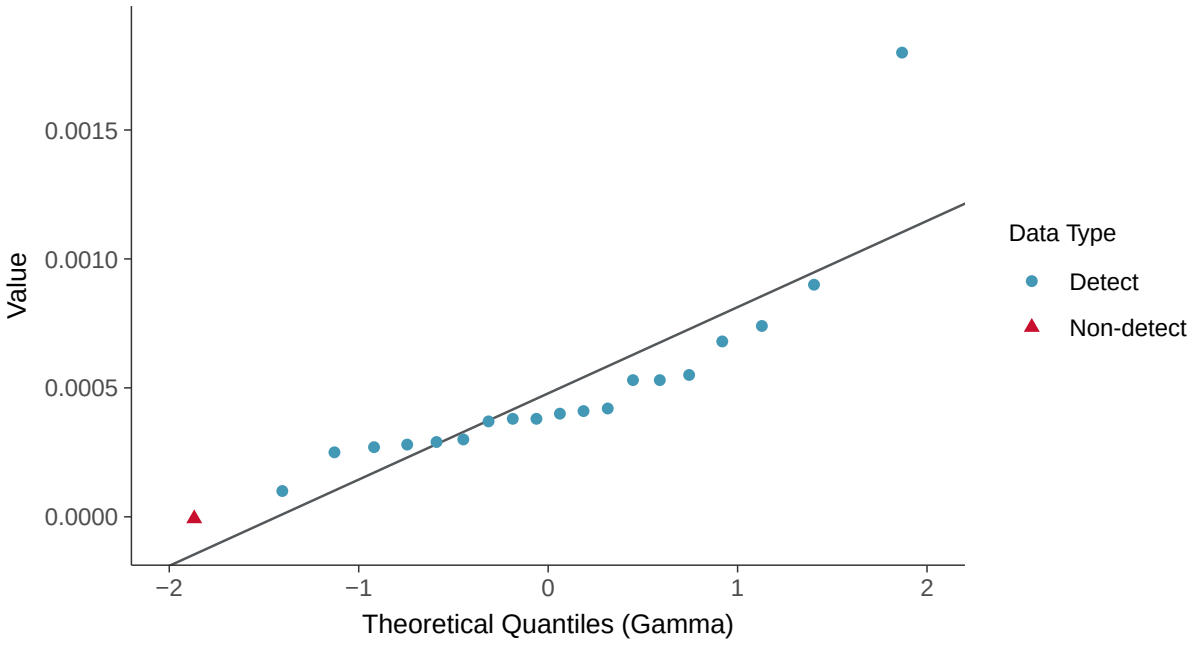
Lognormal Q-Q plot using ROS Imputed Estimates

Cobalt, MW-10 (mg/L)



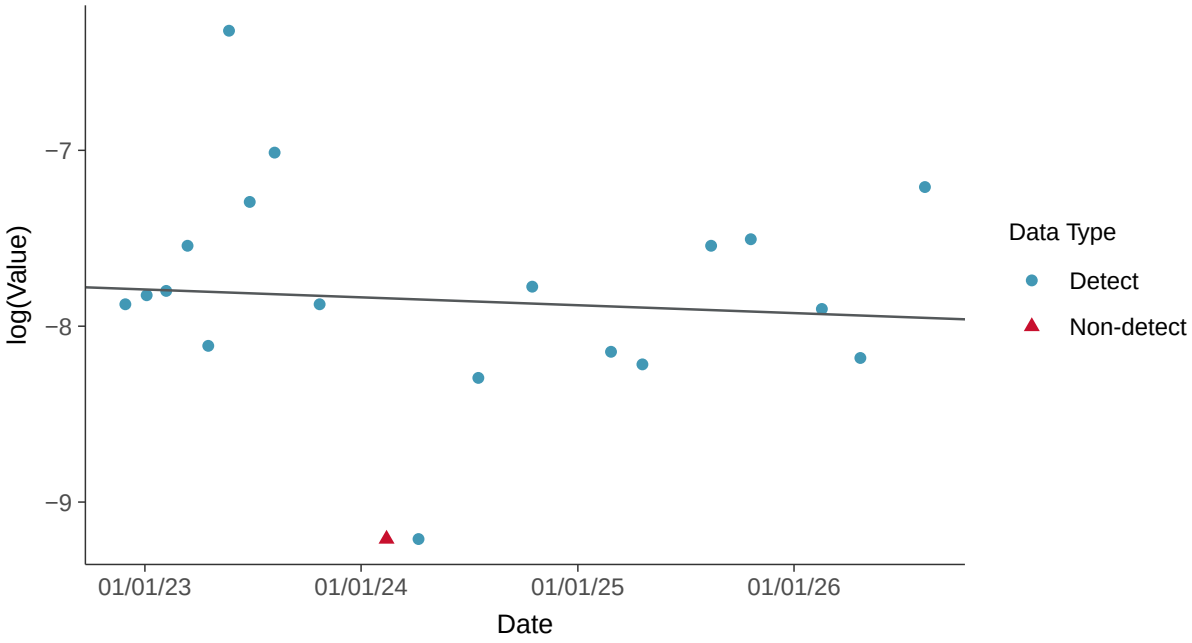
Gamma Q-Q plot using ROS Imputed Estimates

Cobalt, MW-10 (mg/L)



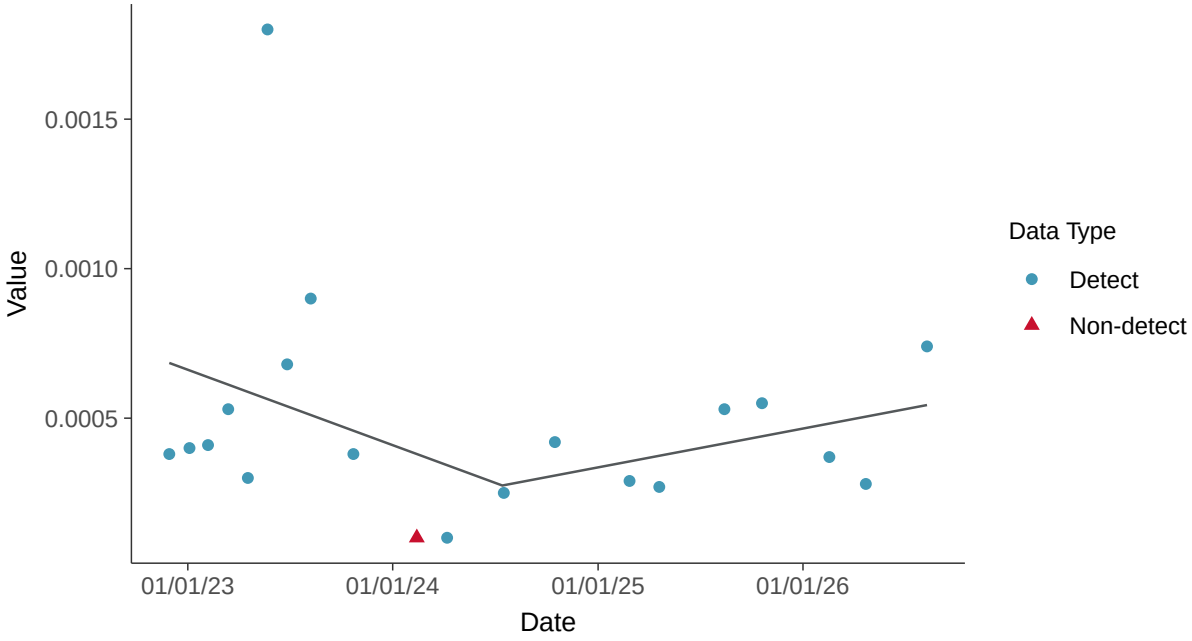
Trend Regression: Lognormal MLE

Cobalt, MW-10 (mg/L)



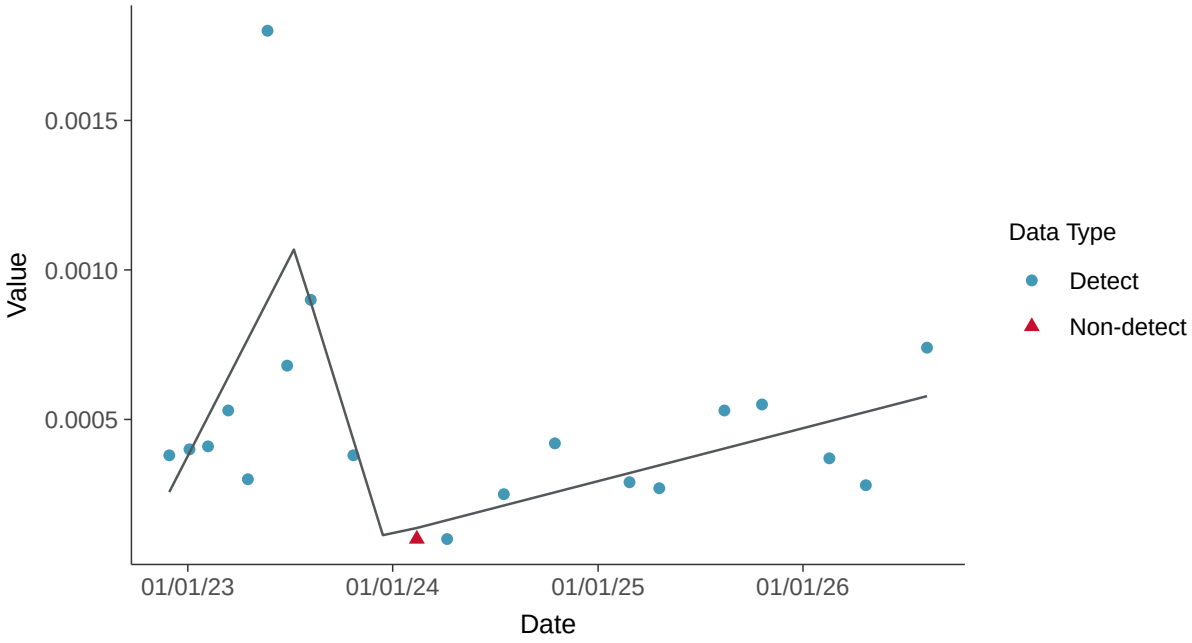
Trend Regression: Piecewise Linear-Linear

Cobalt, MW-10 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Cobalt, MW-10 (mg/L)

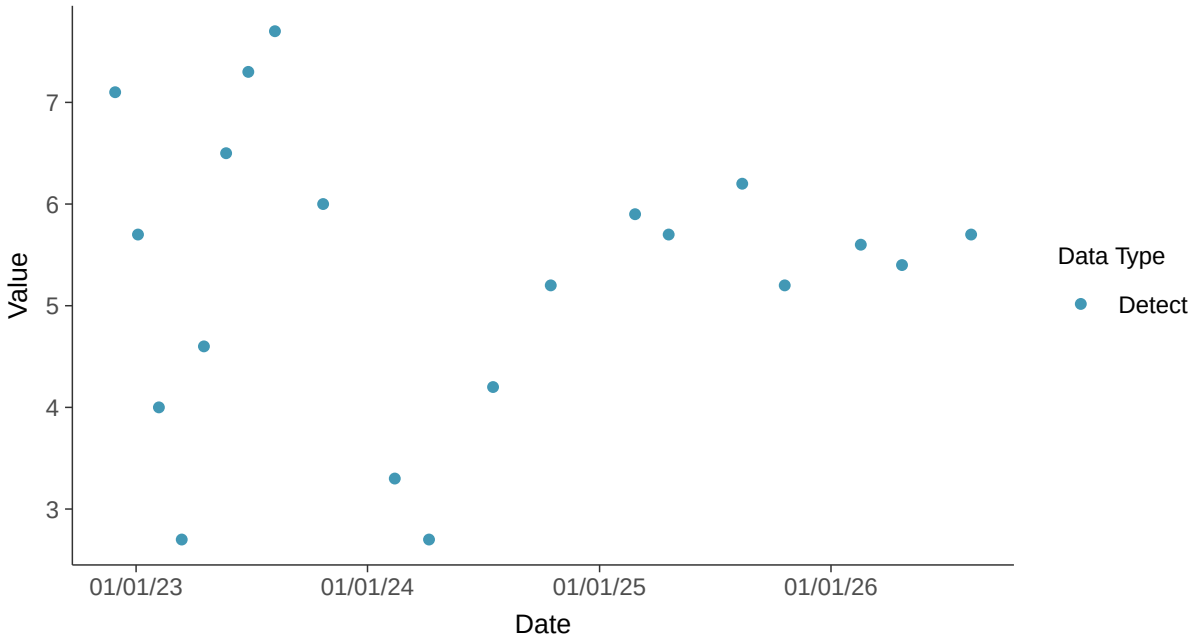


Appendix IV: Fluoride (App IV), MW-10

ID: 20_3_4_113

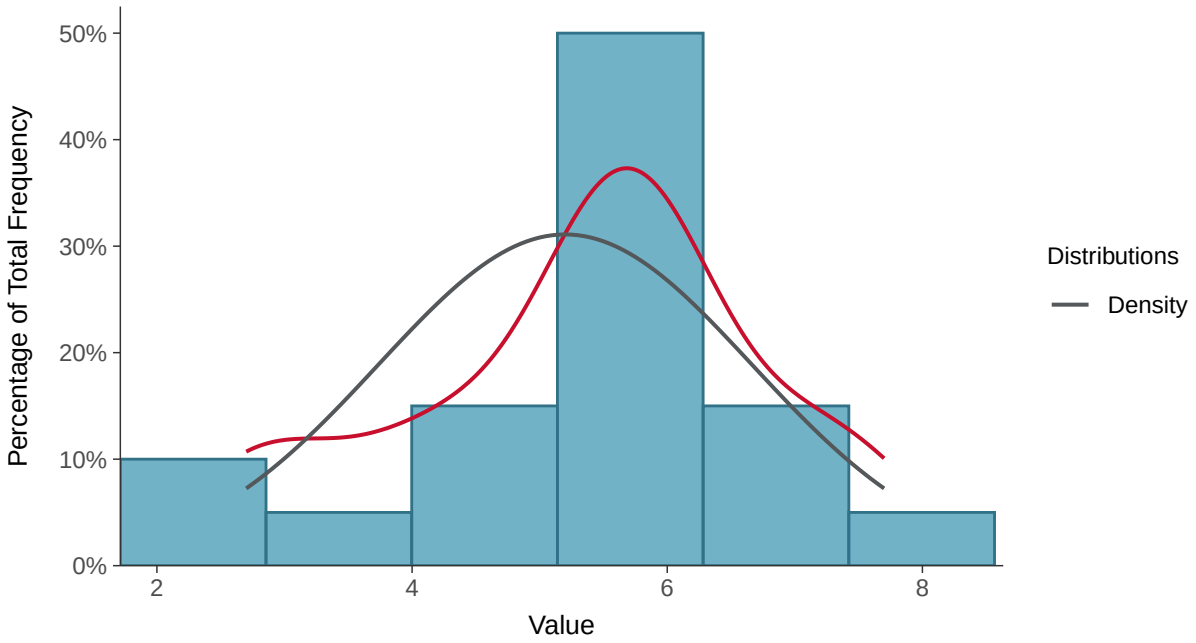
Scatter Plot

Fluoride (App IV), MW-10 (mg/L)



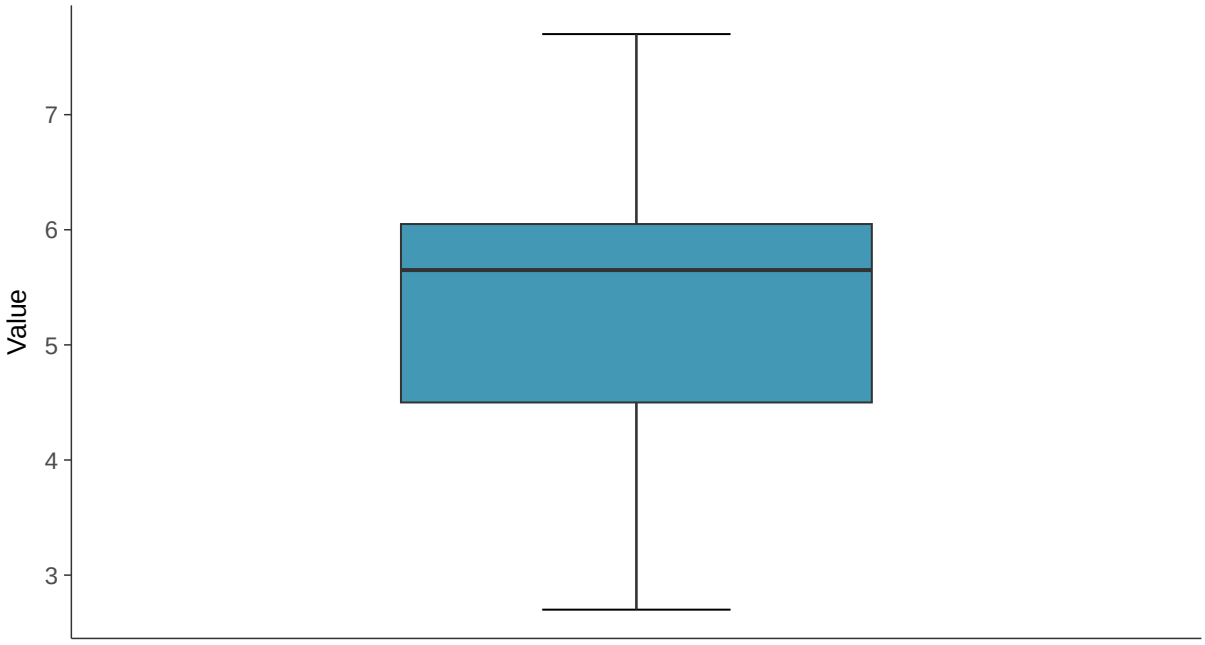
Histogram

Fluoride (App IV), MW-10 (mg/L)



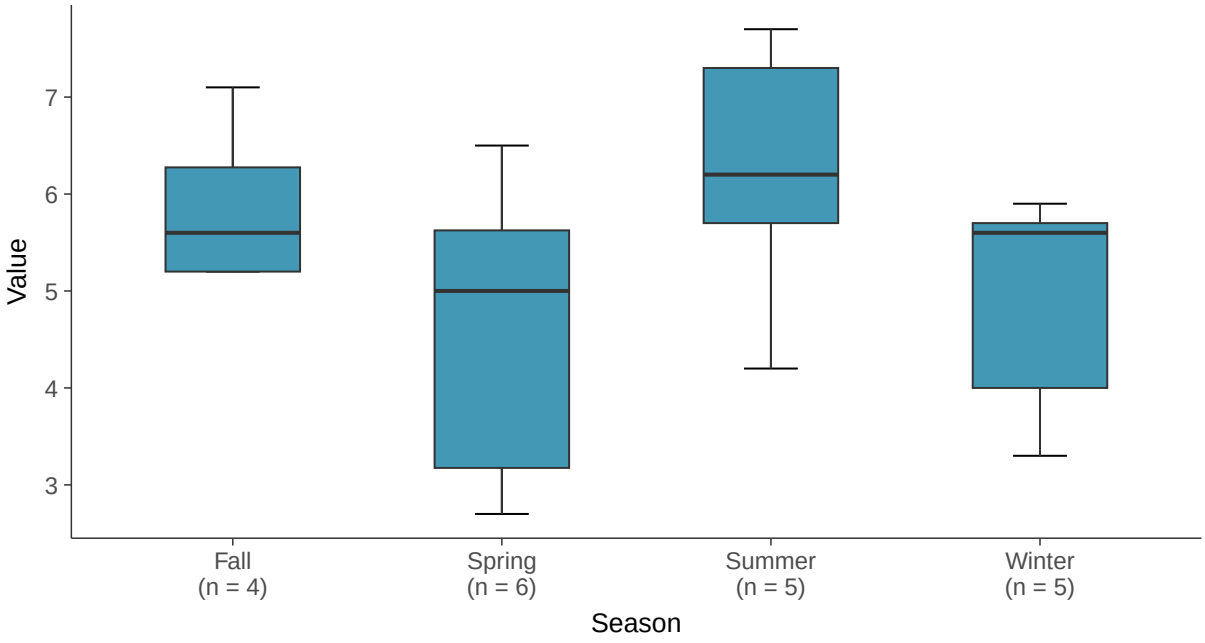
Boxplot

Fluoride (App IV), MW-10 (mg/L)



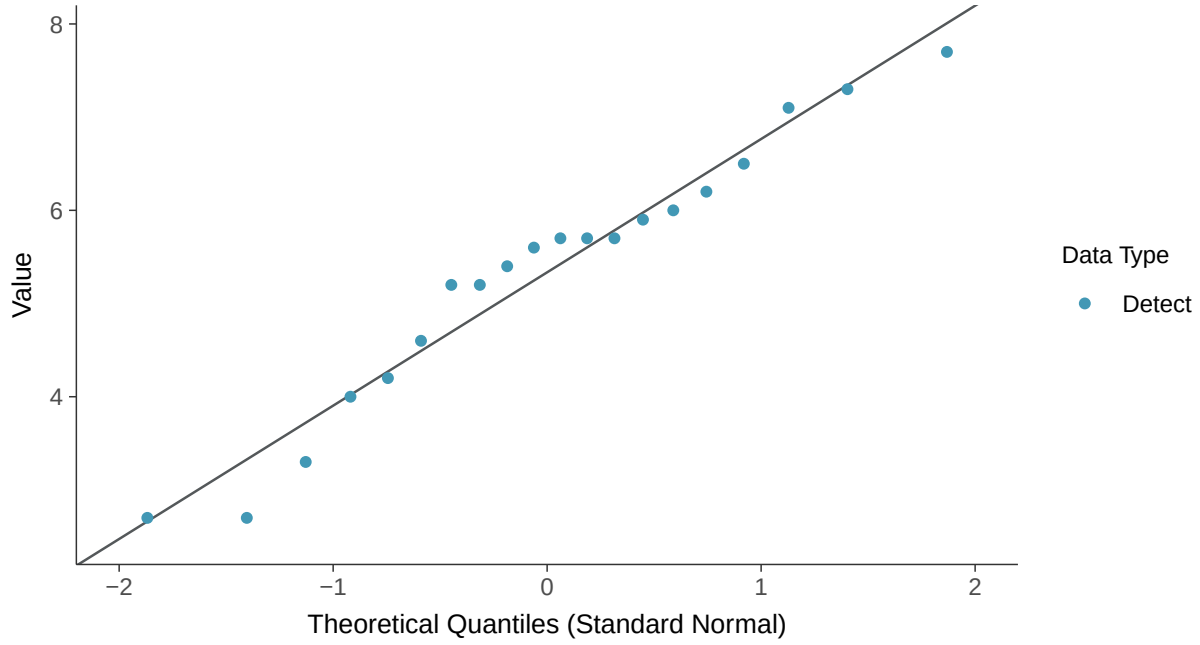
Boxplot by Season

Fluoride (App IV), MW-10 (mg/L)



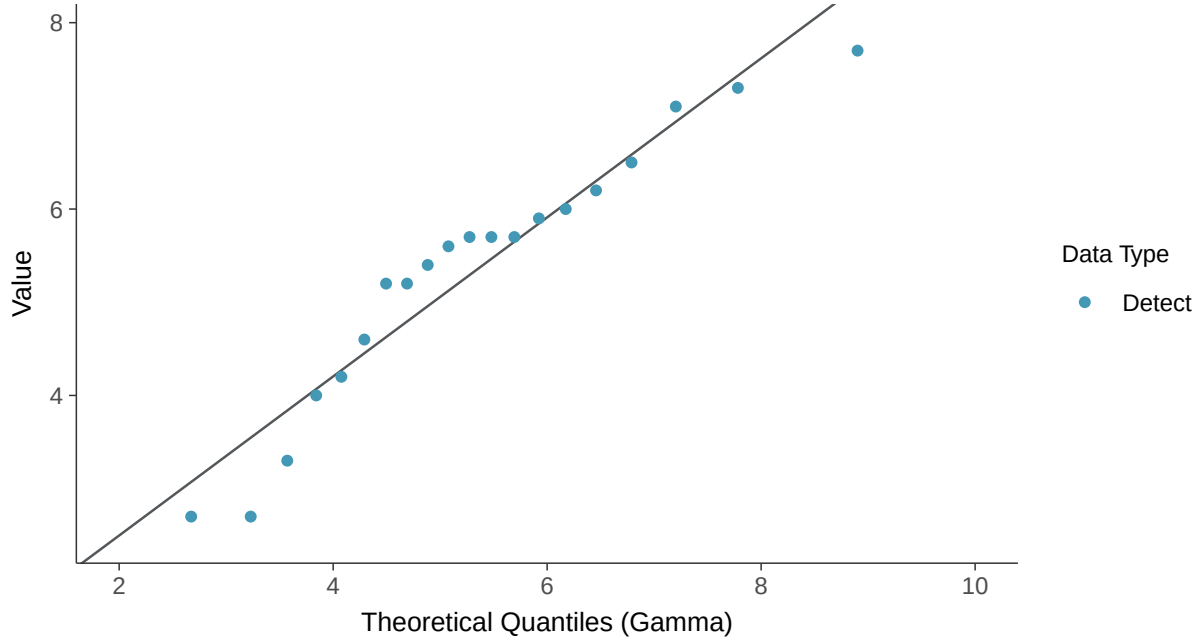
Normal Q-Q plot

Fluoride (App IV), MW-10 (mg/L)



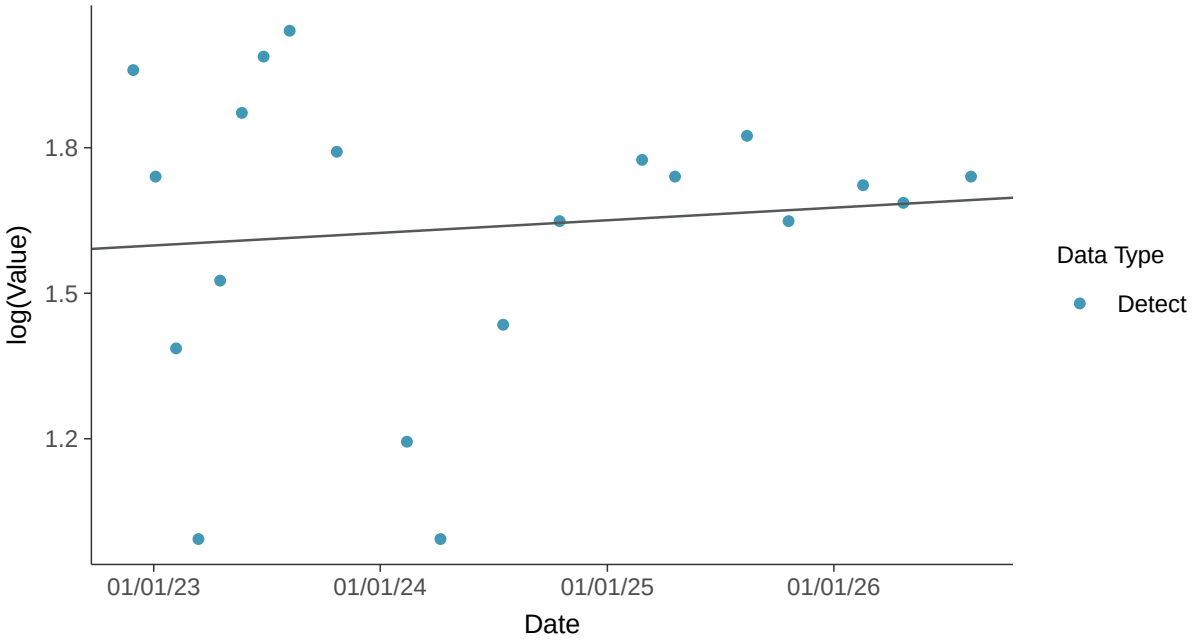
Gamma Q-Q plot

Fluoride (App IV), MW-10 (mg/L)



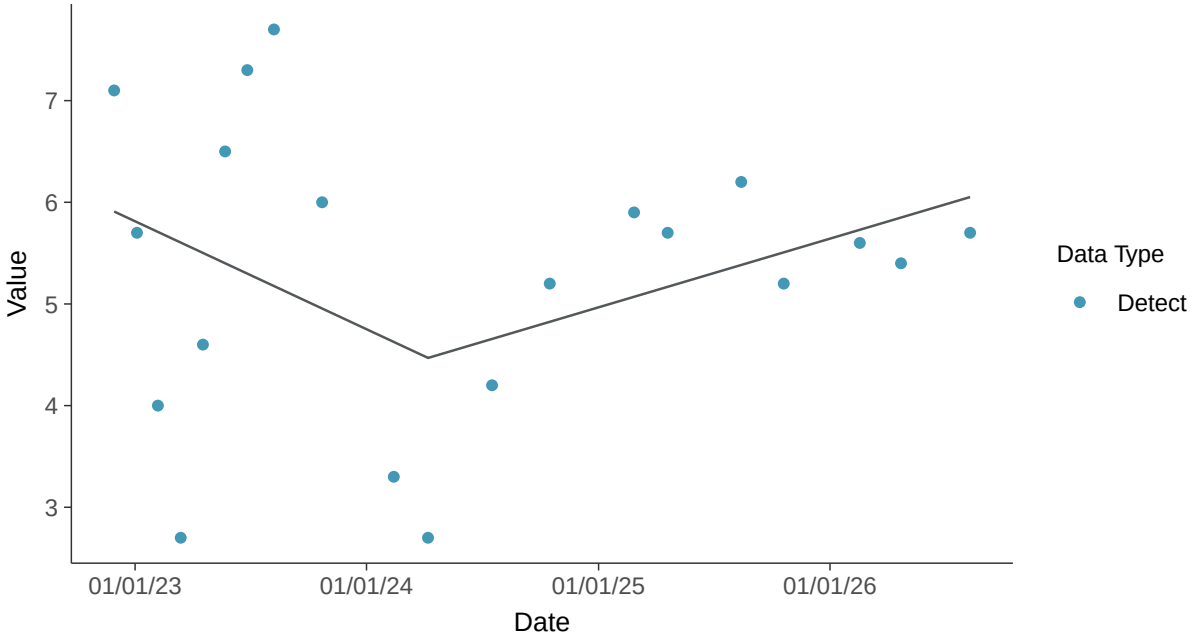
Trend Regression: Lognormal MLE

Fluoride (App IV), MW-10 (mg/L)



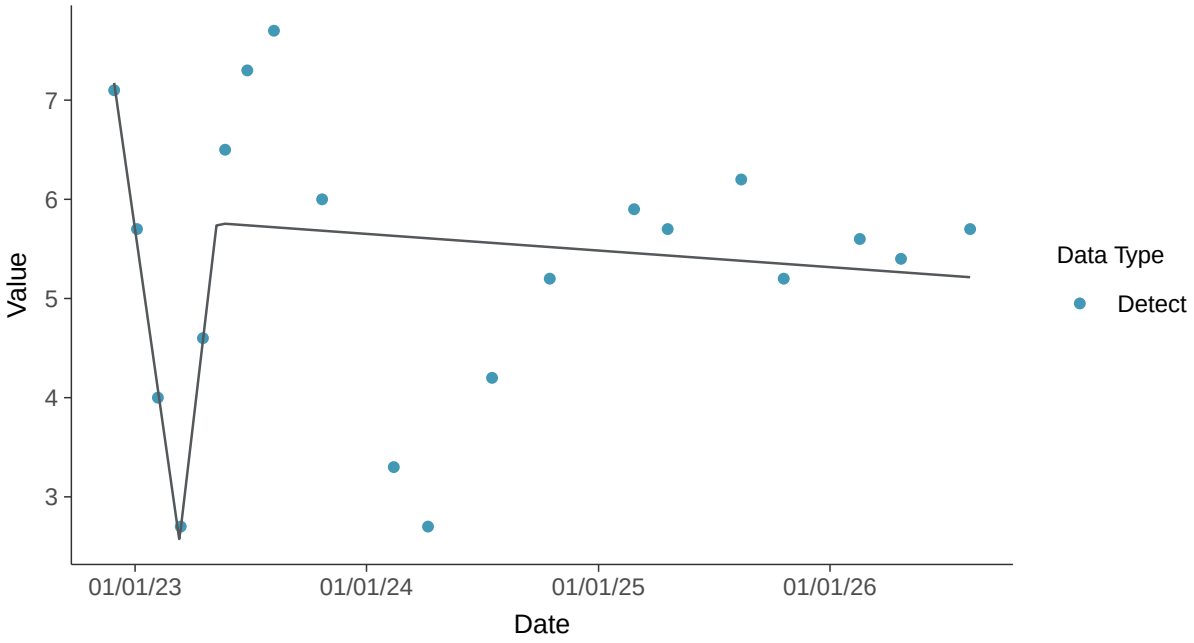
Trend Regression: Piecewise Linear-Linear

Fluoride (App IV), MW-10 (mg/L)



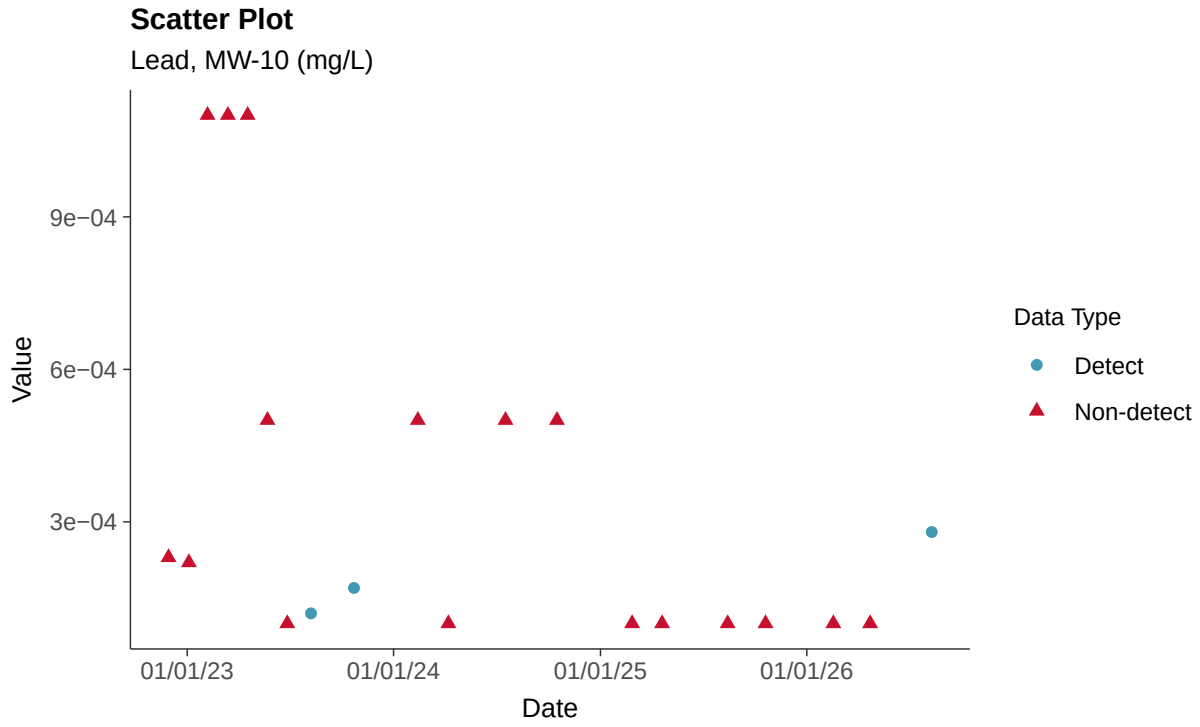
Trend Regression: Piecewise Linear-Linear-Linear

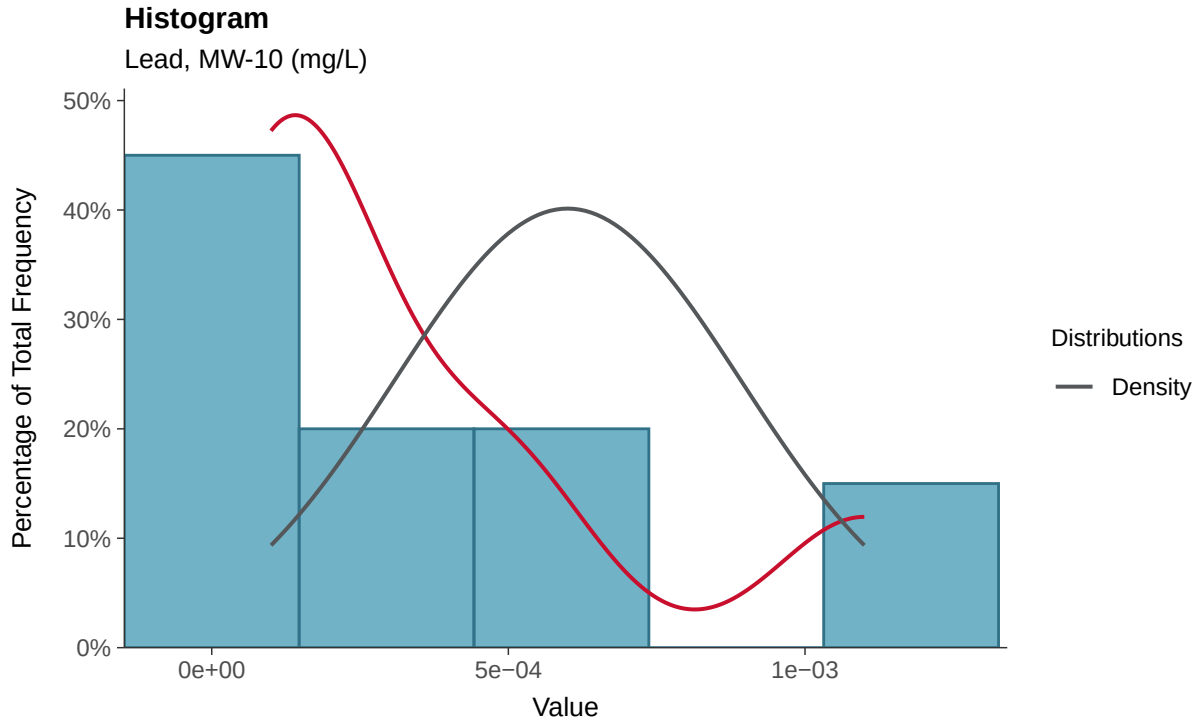
Fluoride (App IV), MW-10 (mg/L)



Appendix IV: Lead, MW-10

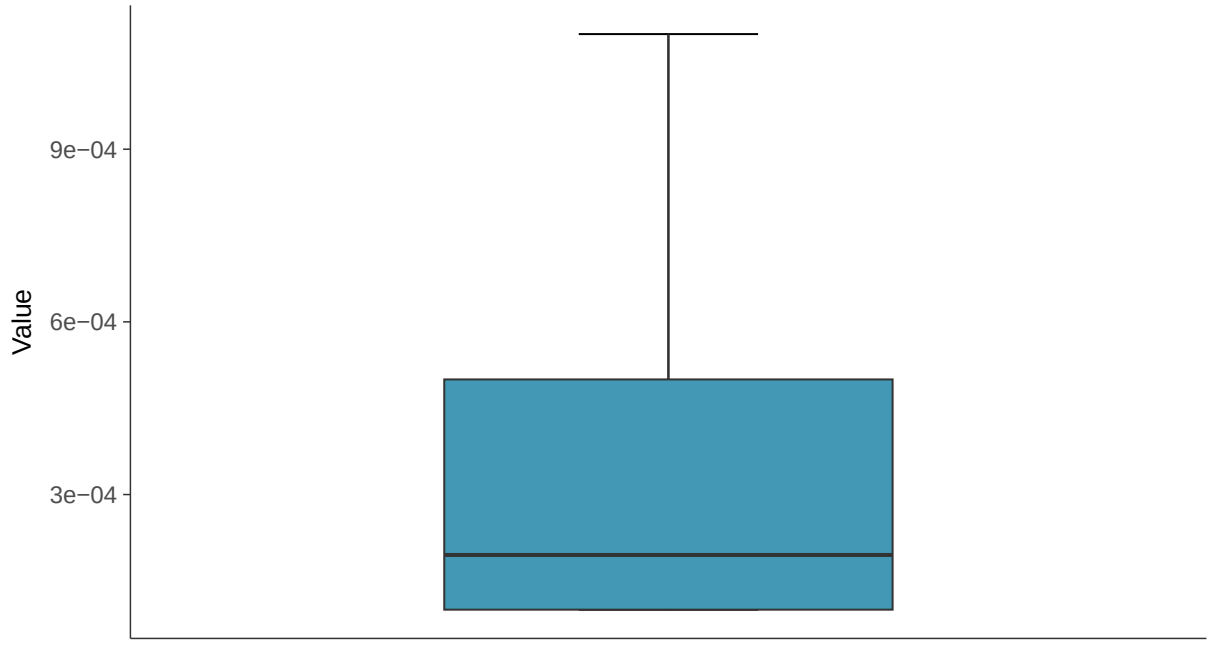
ID: 20_3_4_115





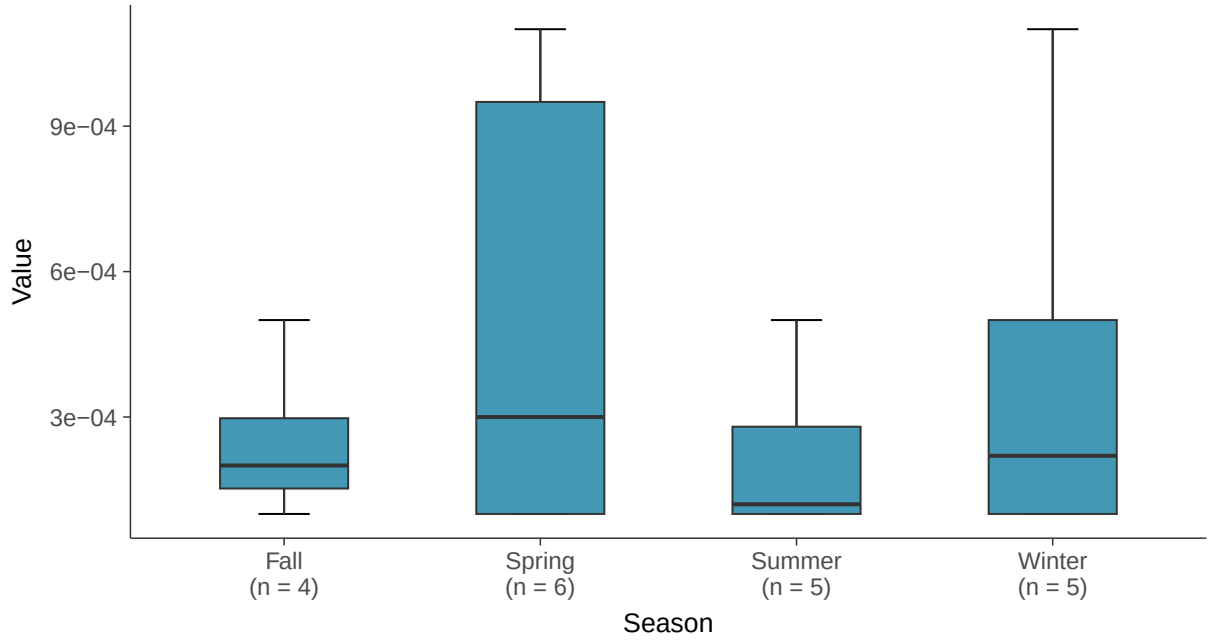
Boxplot

Lead, MW-10 (mg/L)



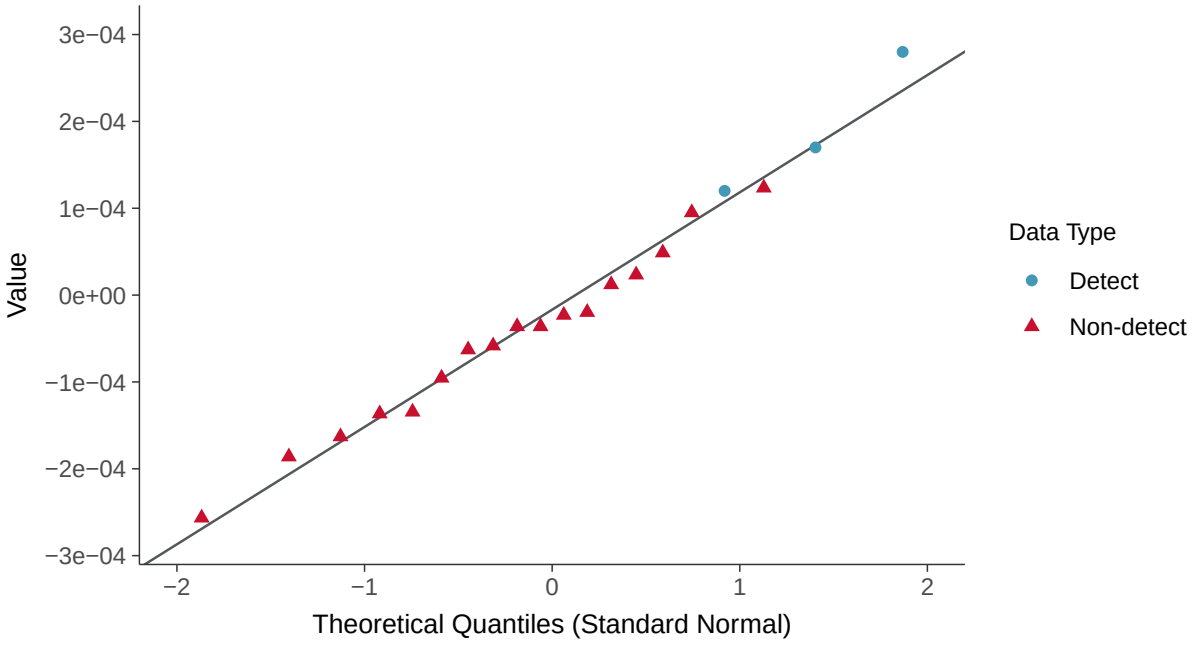
Boxplot by Season

Lead, MW-10 (mg/L)



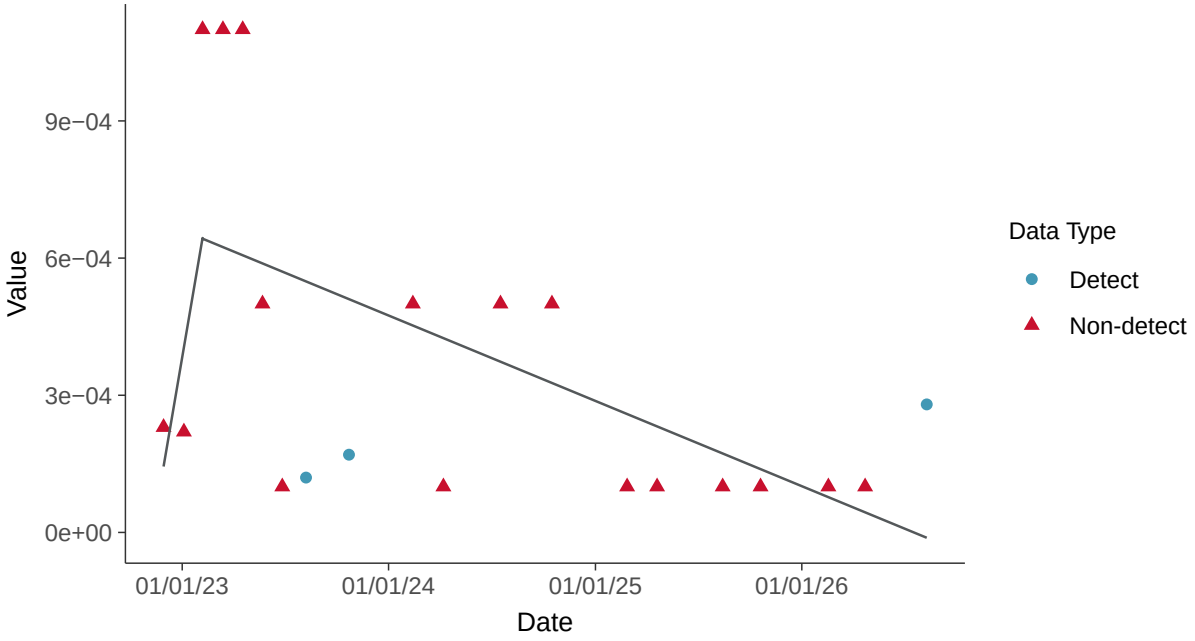
Normal Q-Q plot using ROS Imputed Estimates

Lead, MW-10 (mg/L)



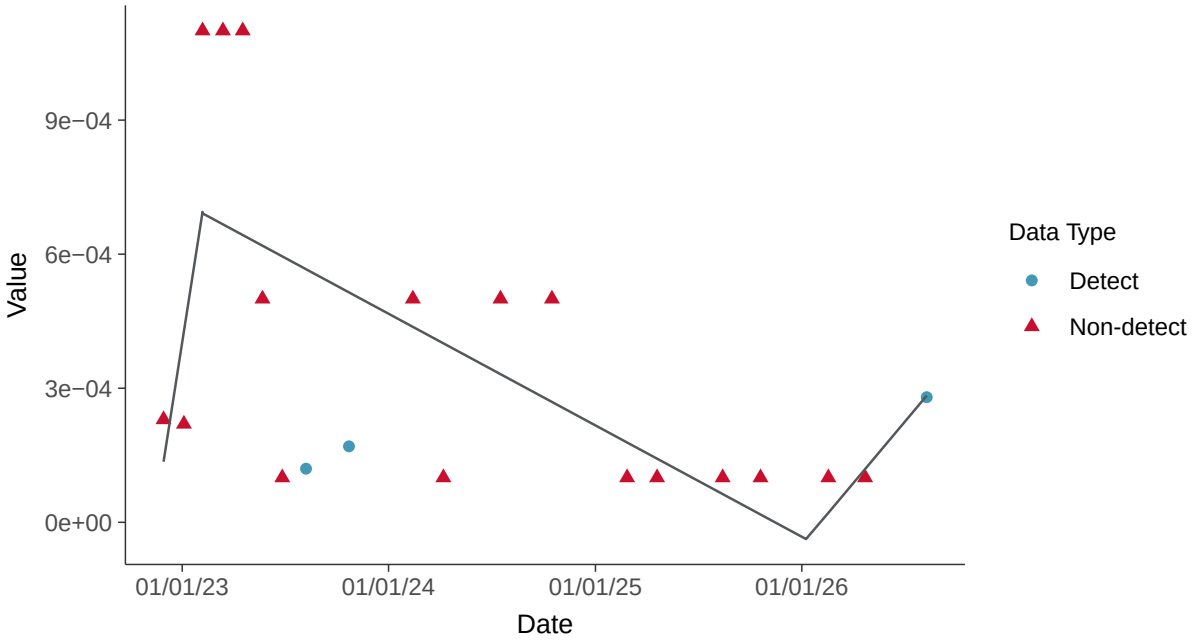
Trend Regression: Piecewise Linear-Linear

Lead, MW-10 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Lead, MW-10 (mg/L)

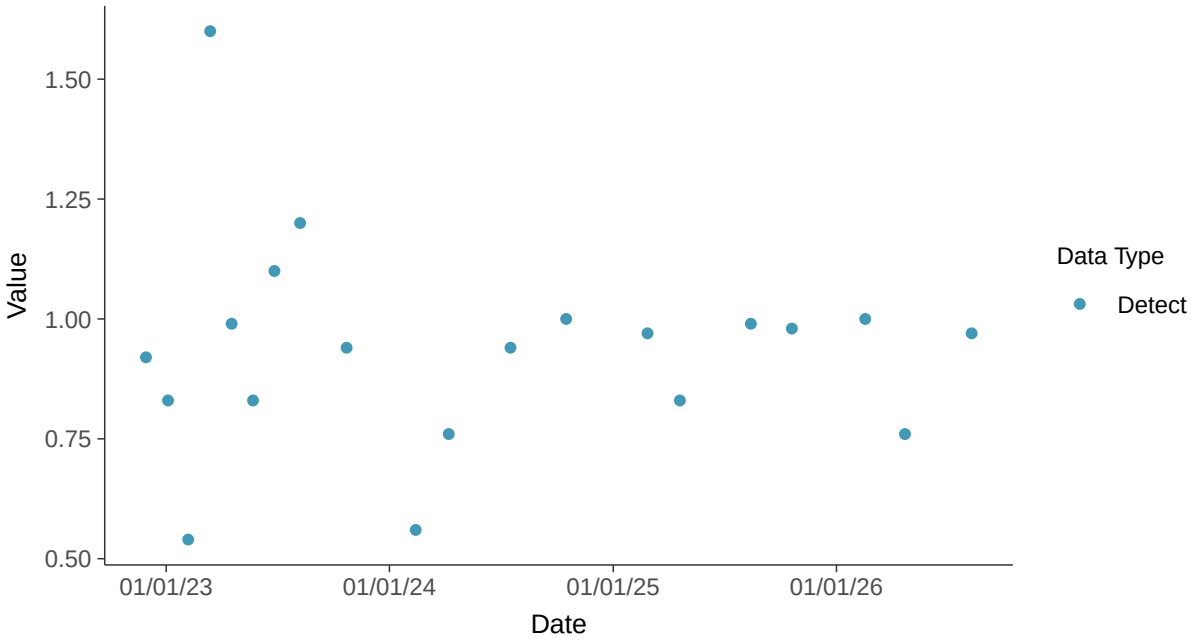


Appendix IV: Lithium, MW-10

ID: 20_3_4_116

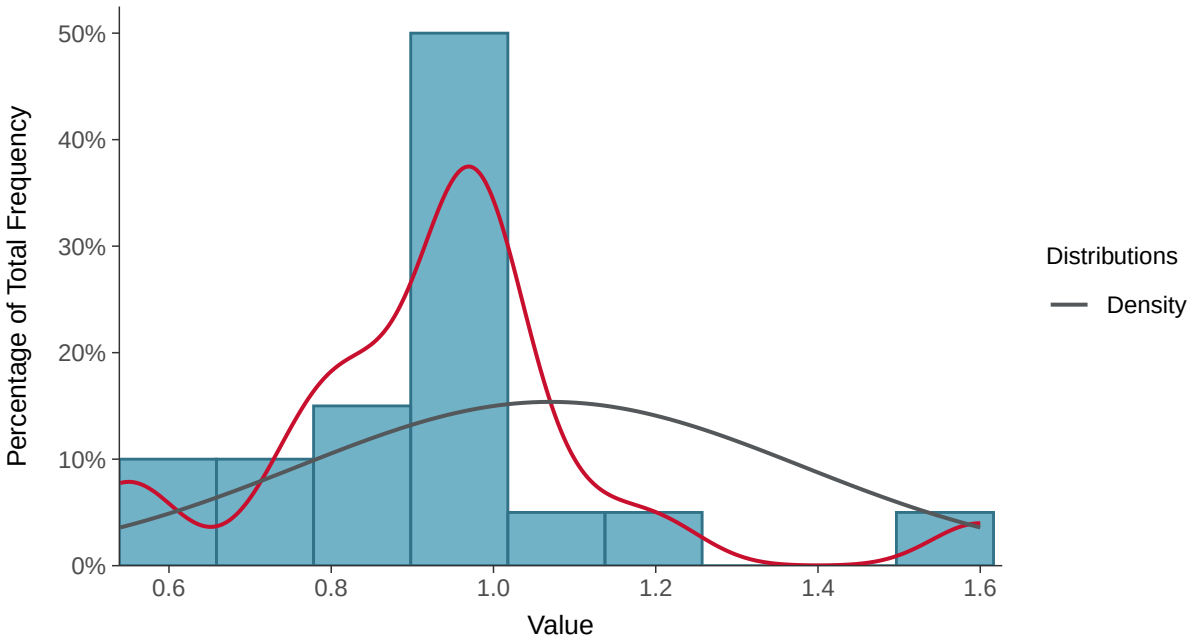
Scatter Plot

Lithium, MW-10 (mg/L)



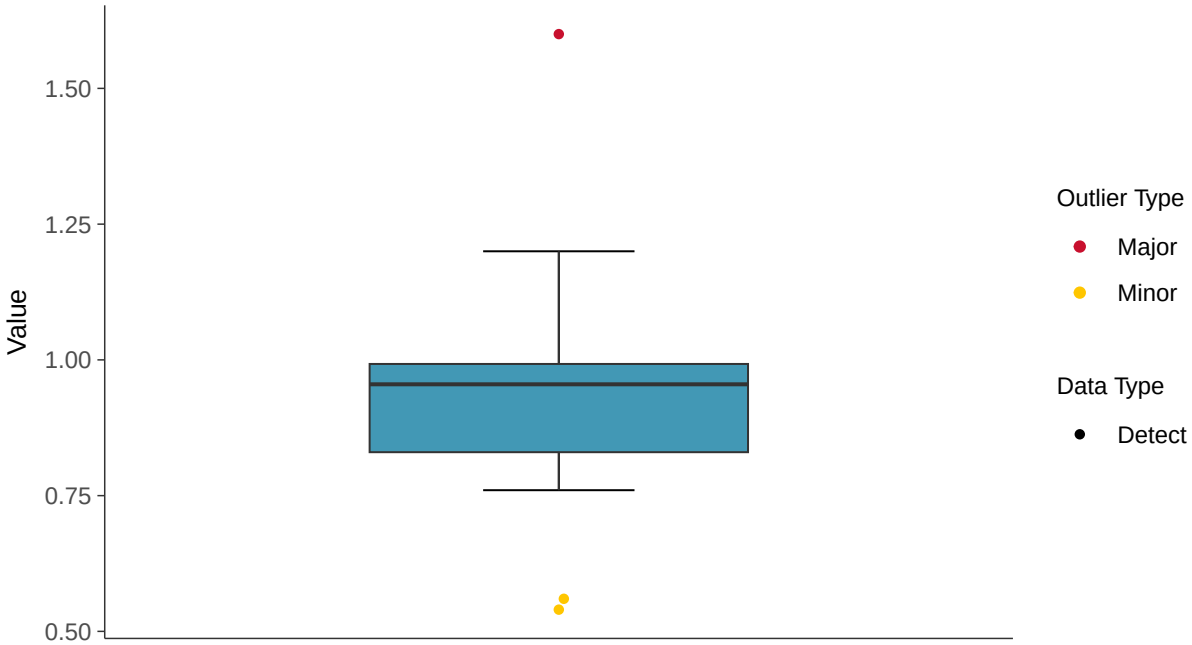
Histogram

Lithium, MW-10 (mg/L)



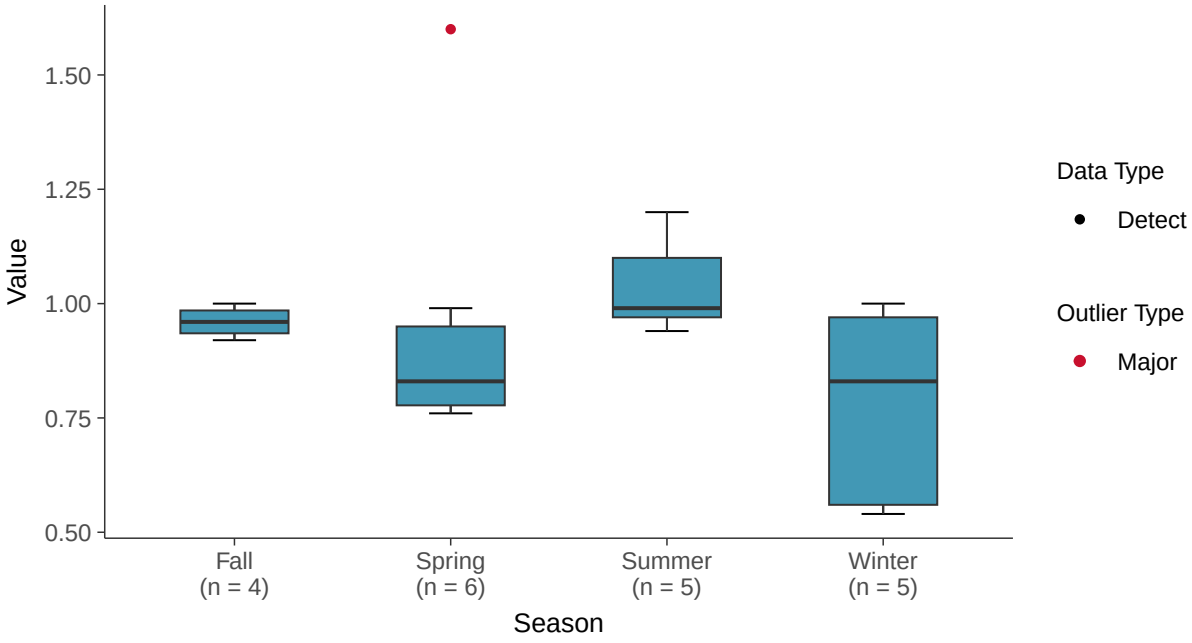
Boxplot

Lithium, MW-10 (mg/L)



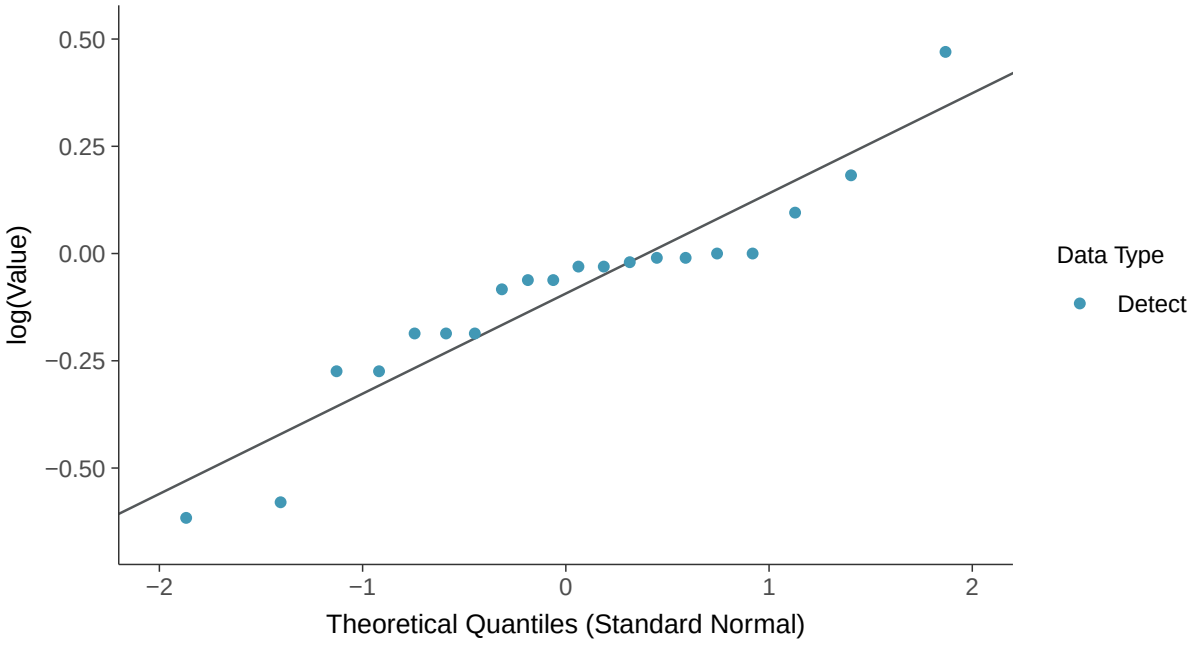
Boxplot by Season

Lithium, MW-10 (mg/L)



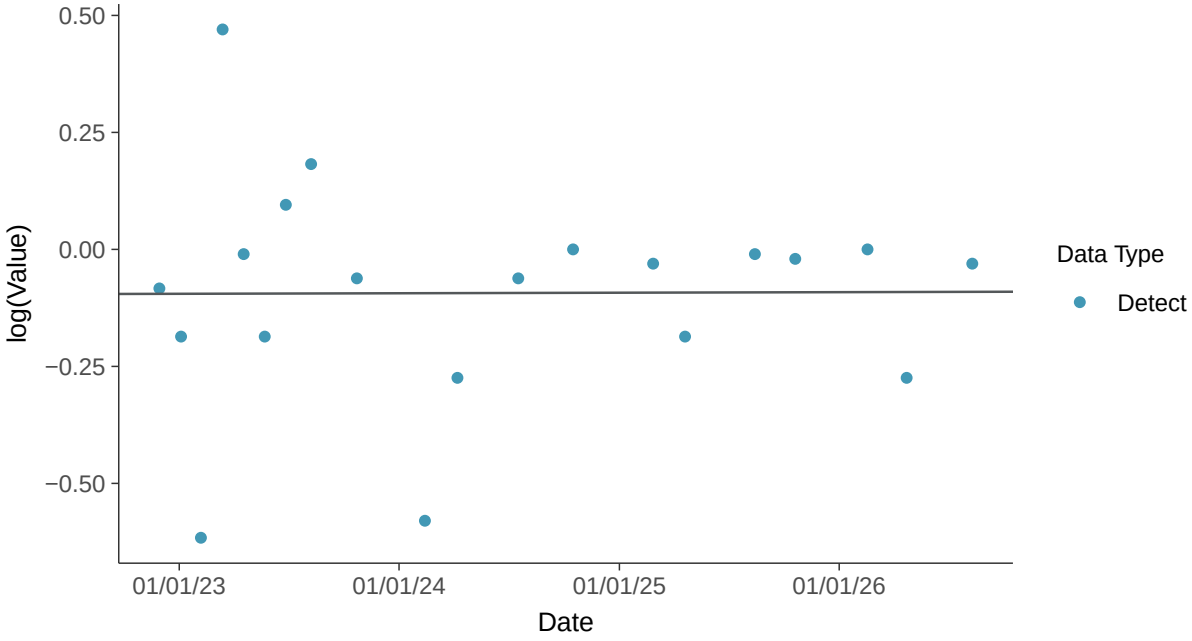
Lognormal Q-Q plot

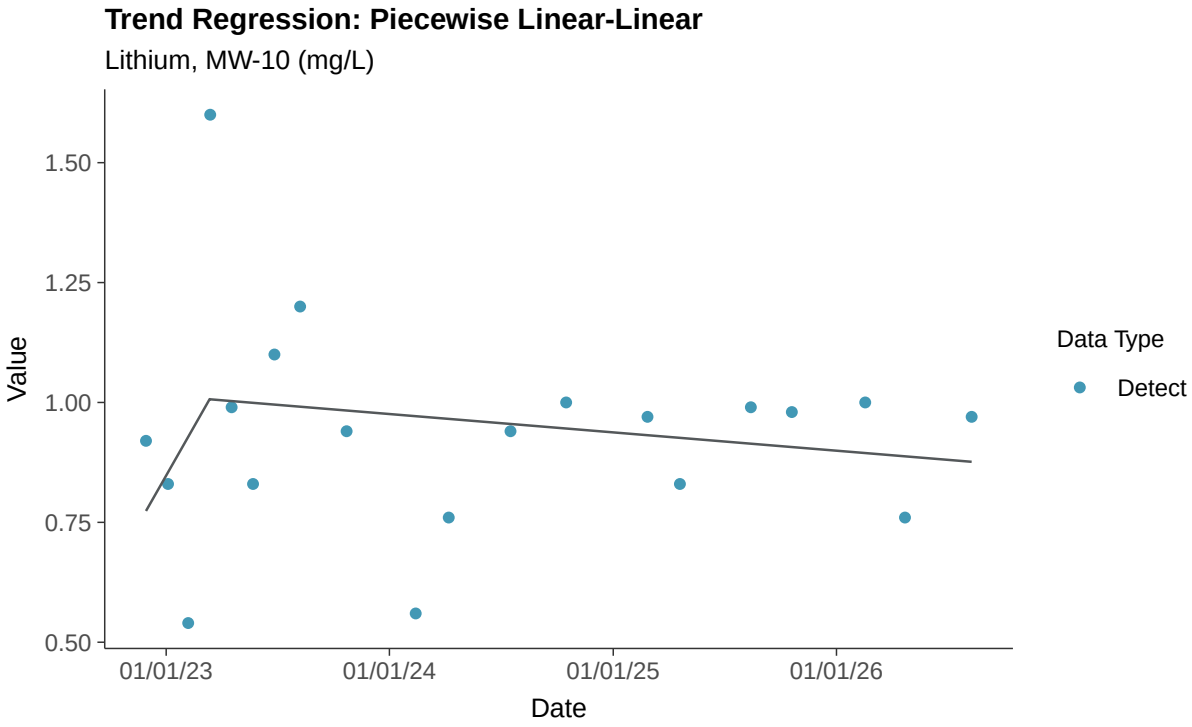
Lithium, MW-10 (mg/L)



Trend Regression: Lognormal MLE

Lithium, MW-10 (mg/L)



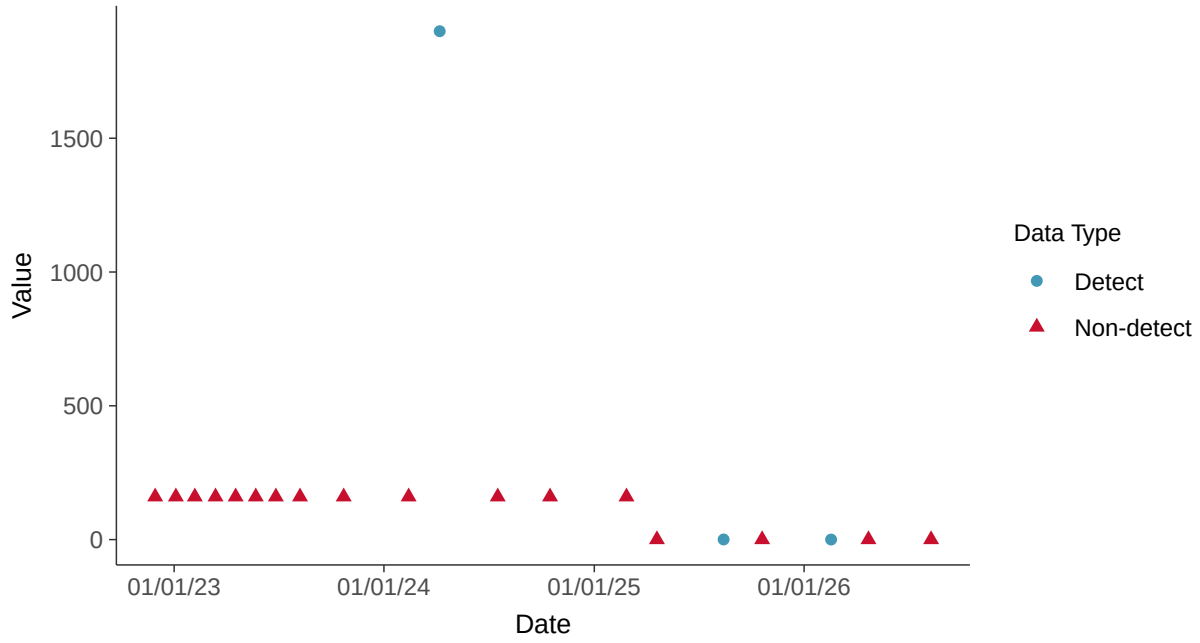

Trend Regression: Piecewise Linear-Linear
Lithium, MW-10 (mg/L)
Value
1.50
1.25
1.00
0.75
0.50
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect

Appendix IV: Mercury, MW-10

ID: 20_3_4_117

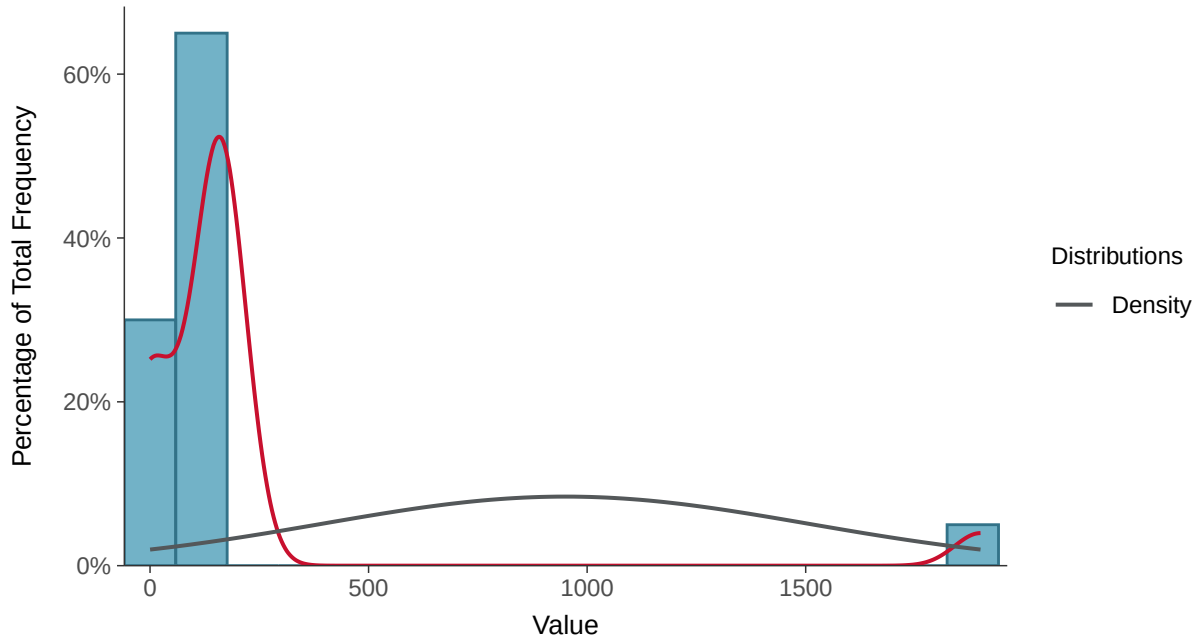
Scatter Plot

Mercury, MW-10 (ng/L)



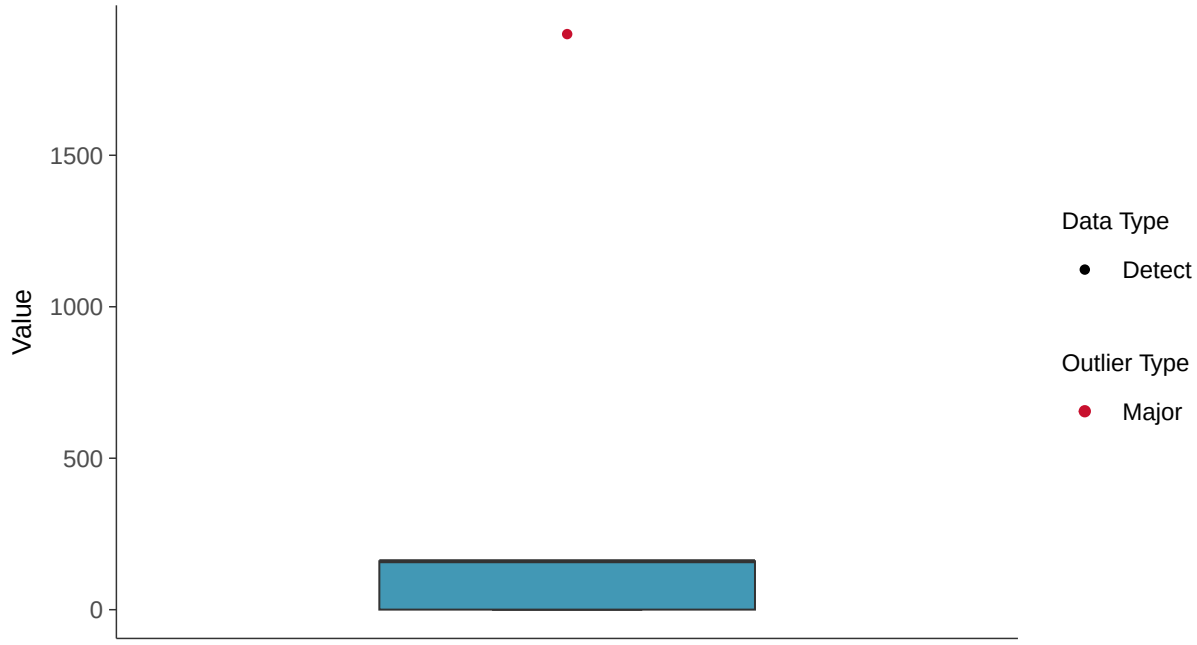
Histogram

Mercury, MW-10 (ng/L)



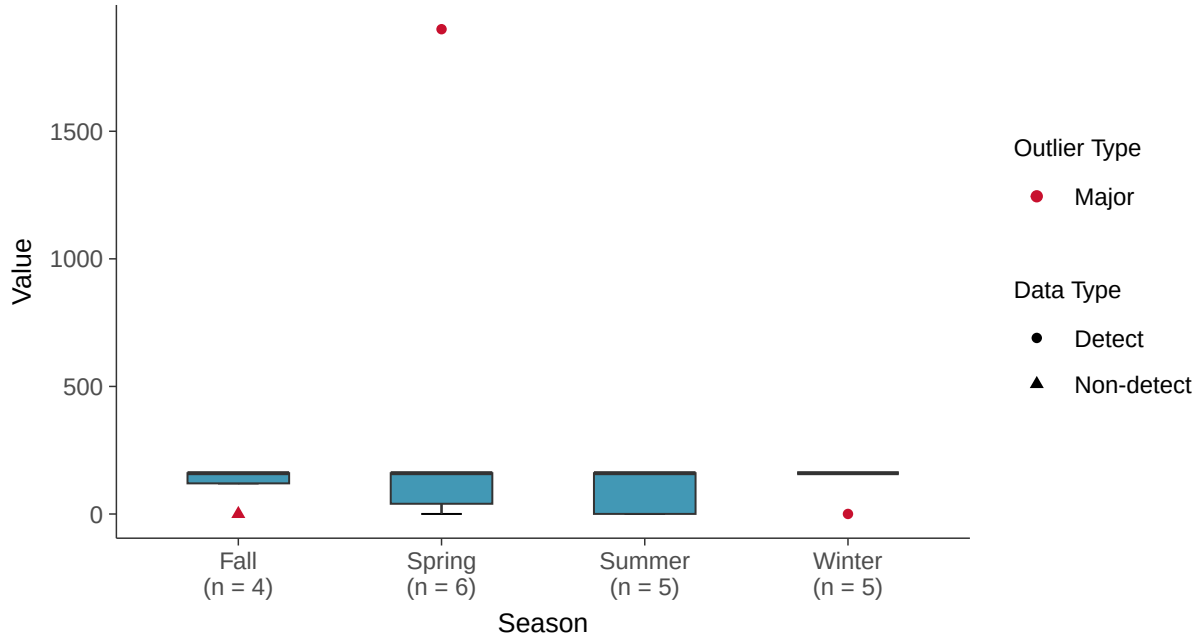
Boxplot

Mercury, MW-10 (ng/L)



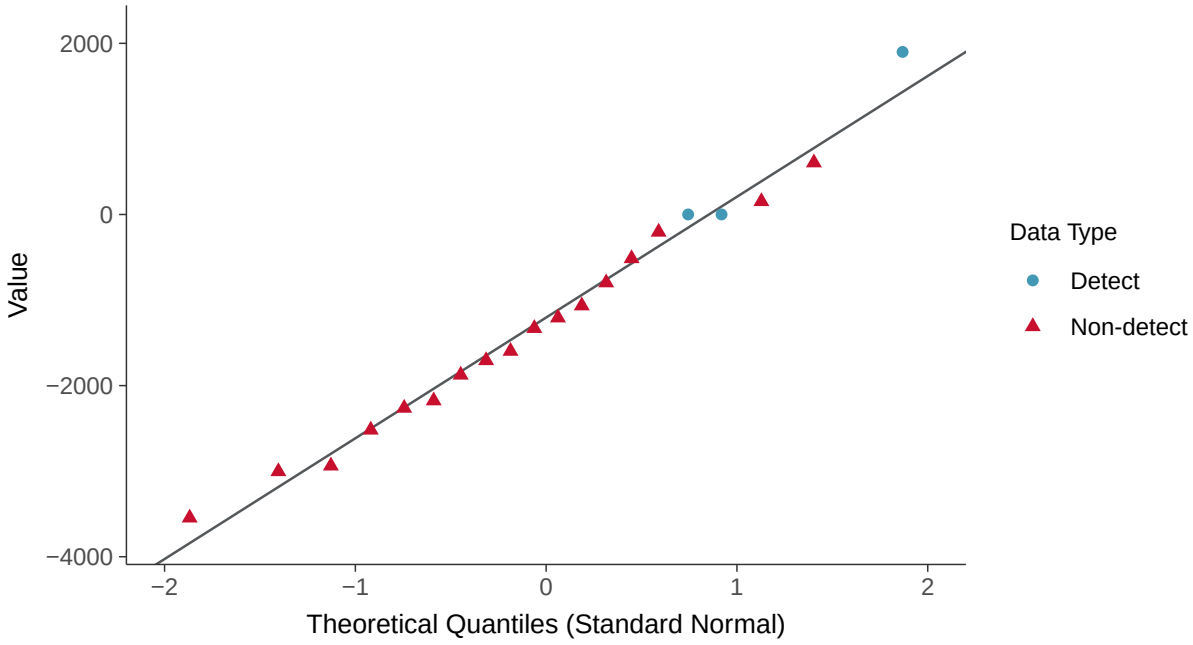
Boxplot by Season

Mercury, MW-10 (ng/L)



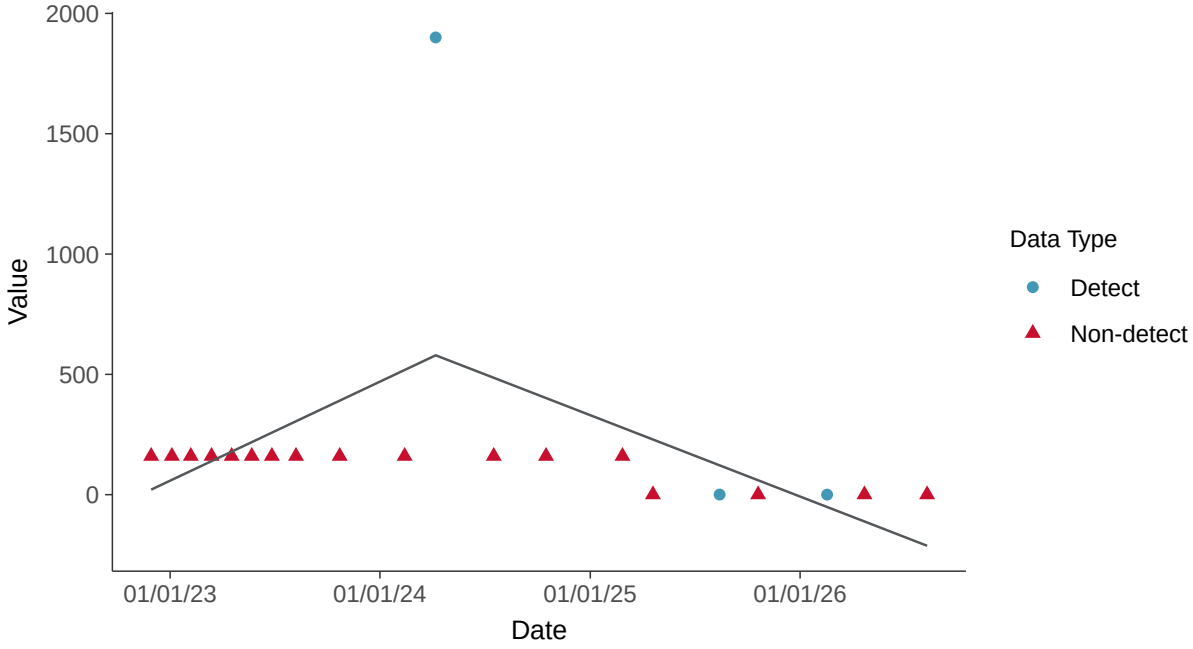
Normal Q-Q plot using ROS Imputed Estimates

Mercury, MW-10 (ng/L)



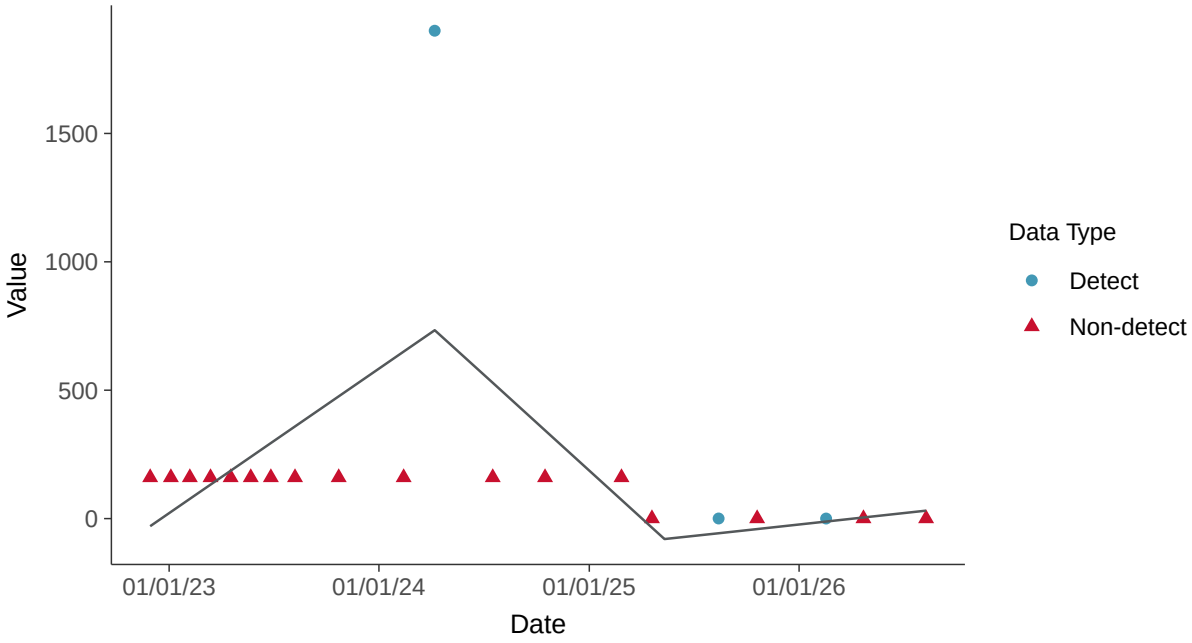
Trend Regression: Piecewise Linear-Linear

Mercury, MW-10 (ng/L)



Trend Regression: Piecewise Linear-Linear-Linear

Mercury, MW-10 (ng/L)

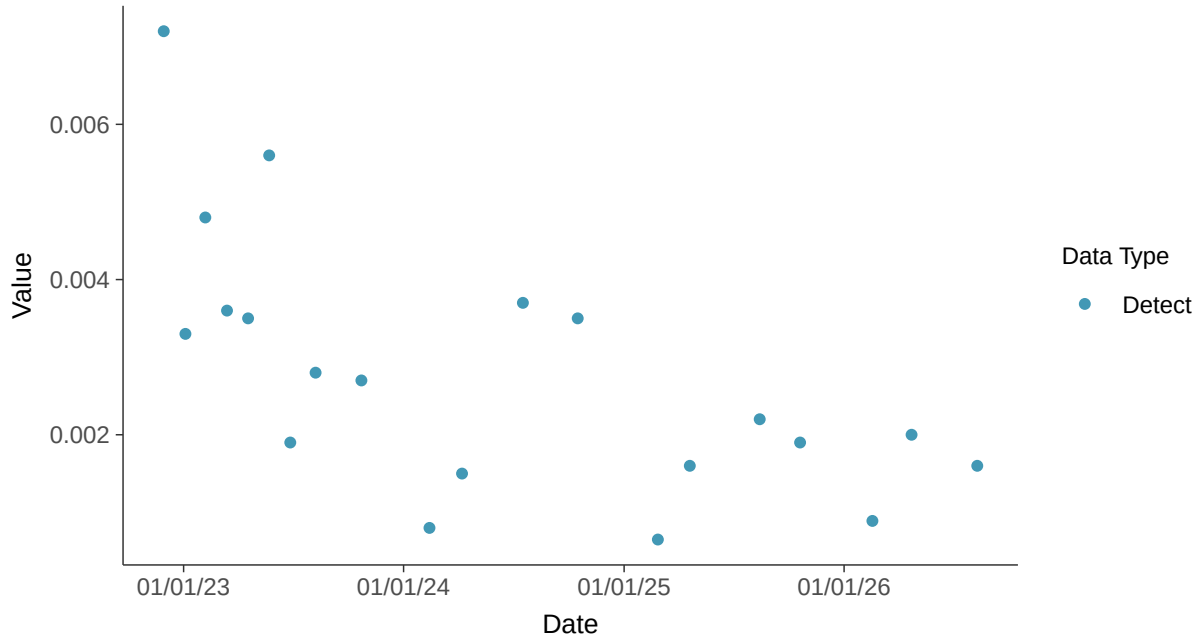


Appendix IV: Molybdenum, MW-10

ID: 20_3_4_118

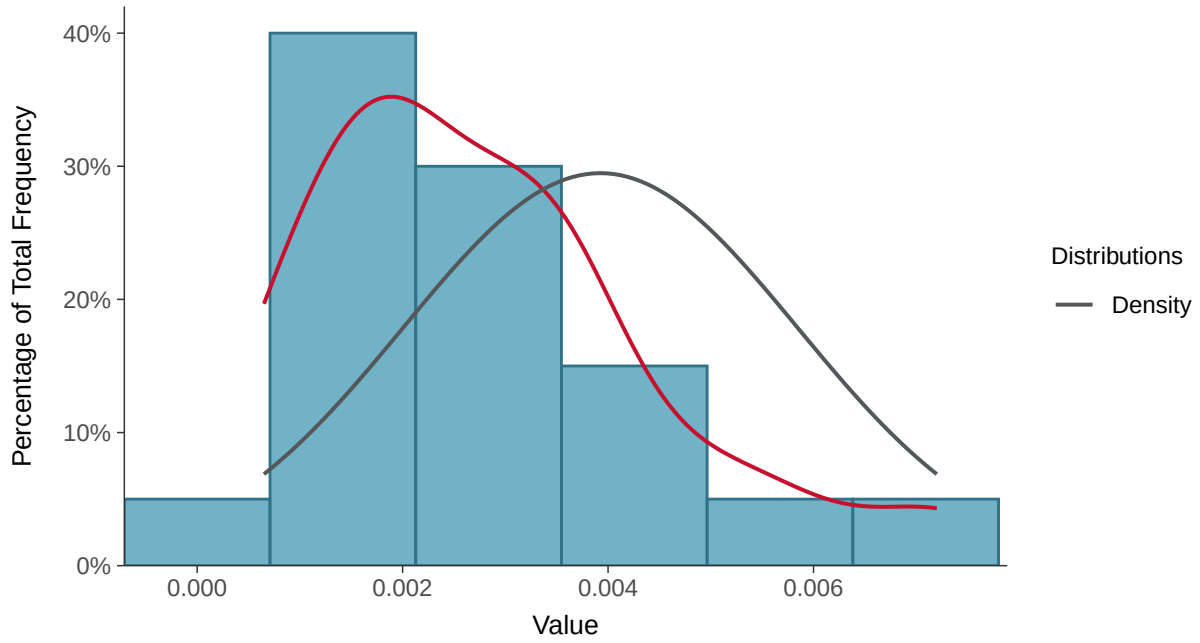
Scatter Plot

Molybdenum, MW-10 (mg/L)



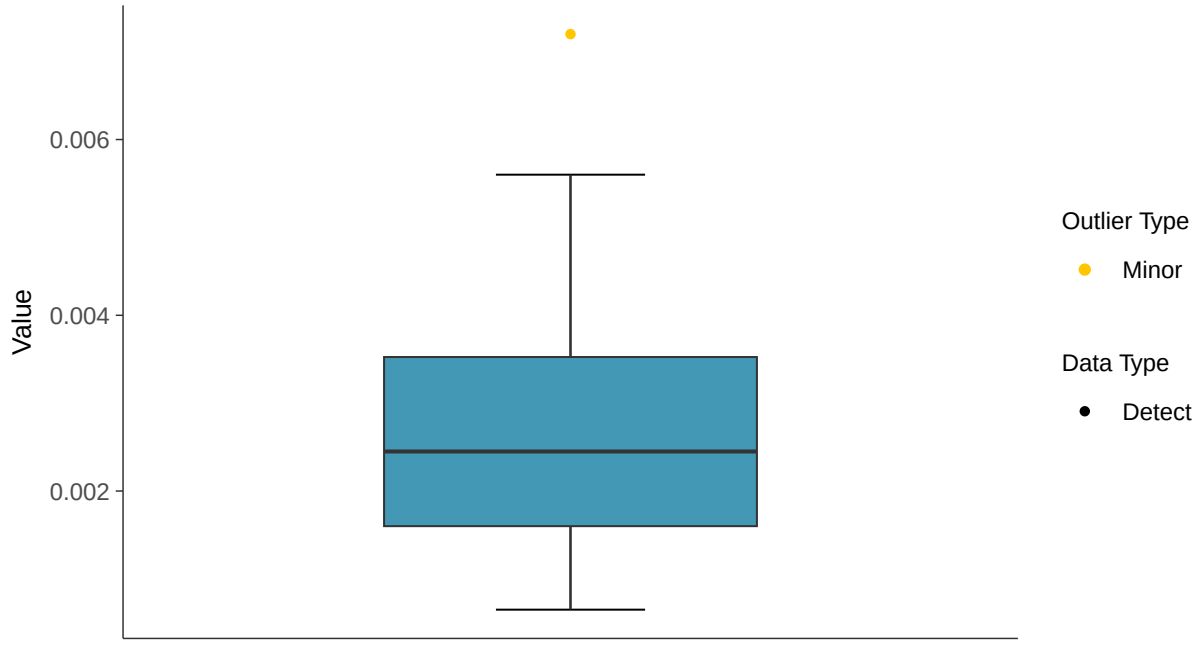
Histogram

Molybdenum, MW-10 (mg/L)



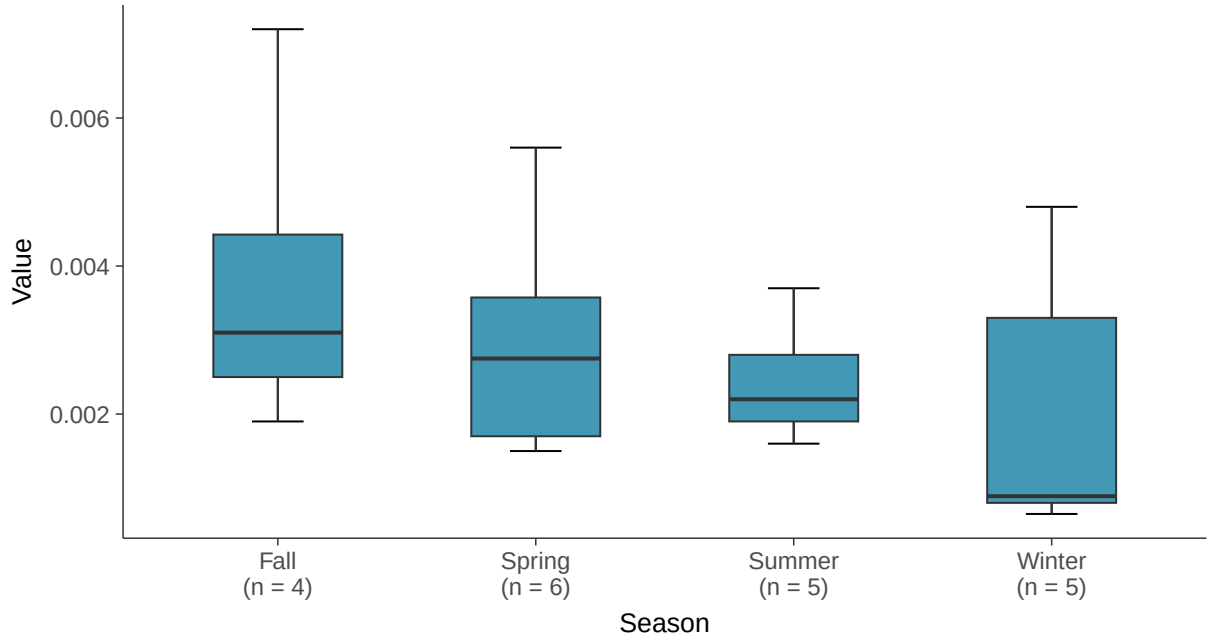
Boxplot

Molybdenum, MW-10 (mg/L)



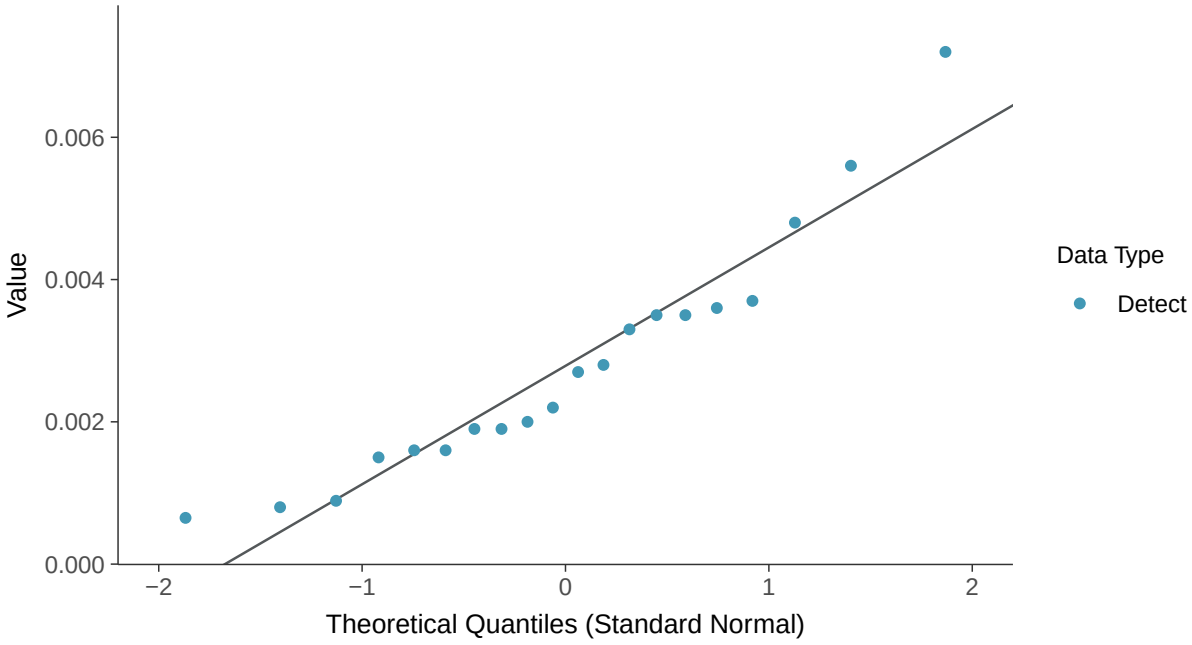
Boxplot by Season

Molybdenum, MW-10 (mg/L)



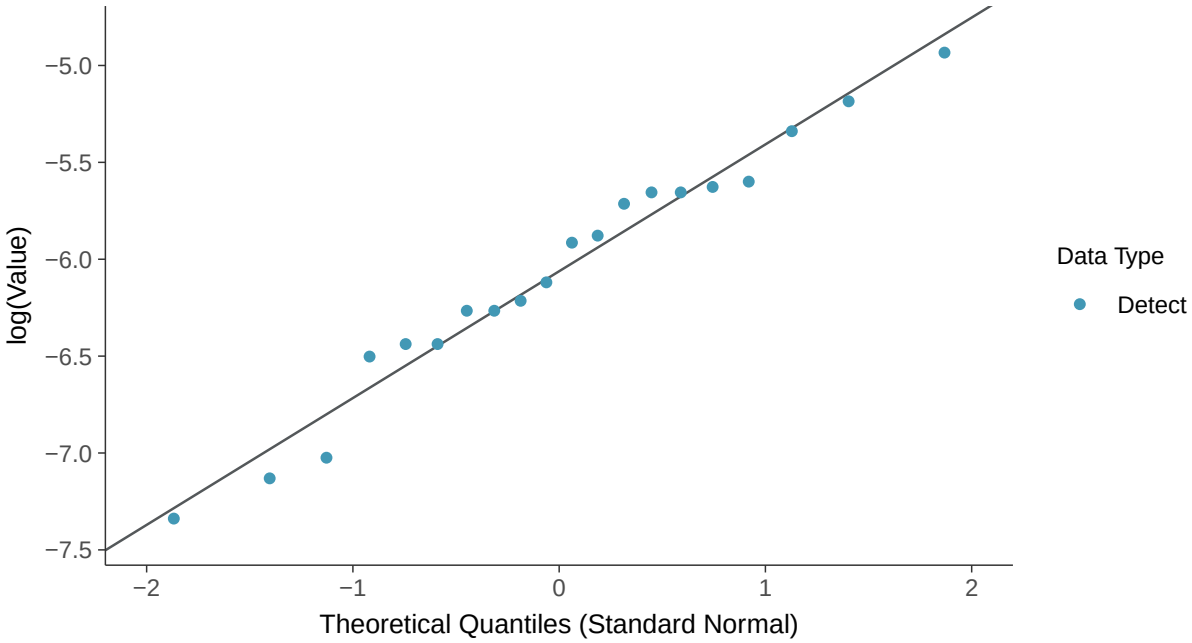
Normal Q-Q plot

Molybdenum, MW-10 (mg/L)



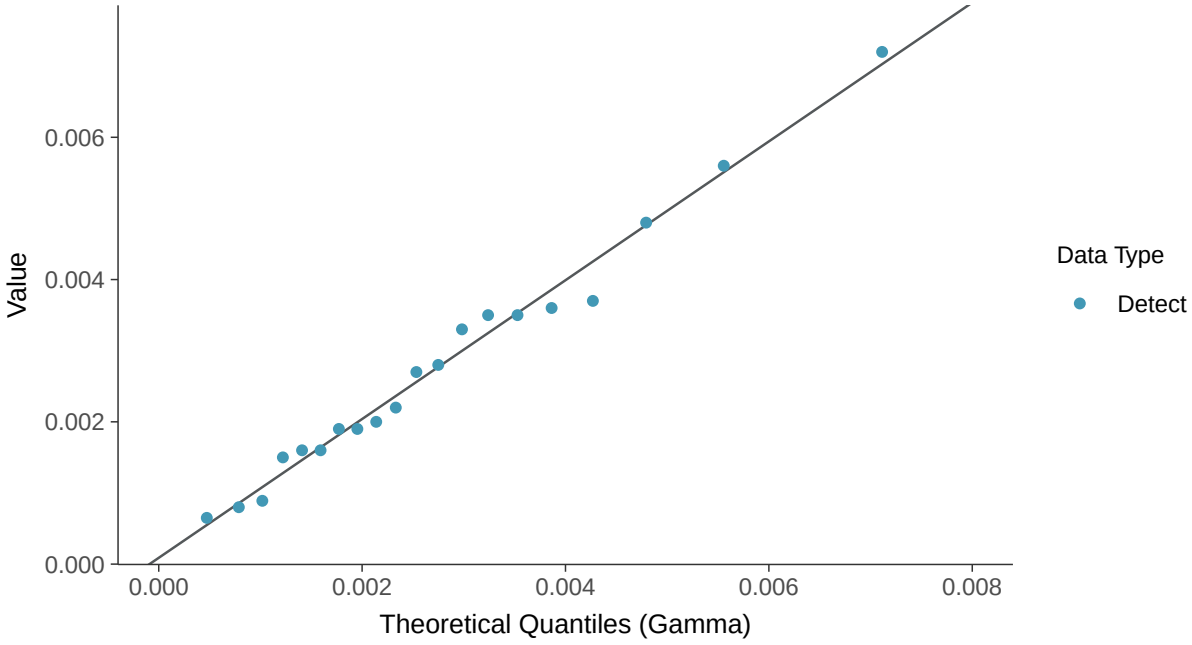
Lognormal Q-Q plot

Molybdenum, MW-10 (mg/L)



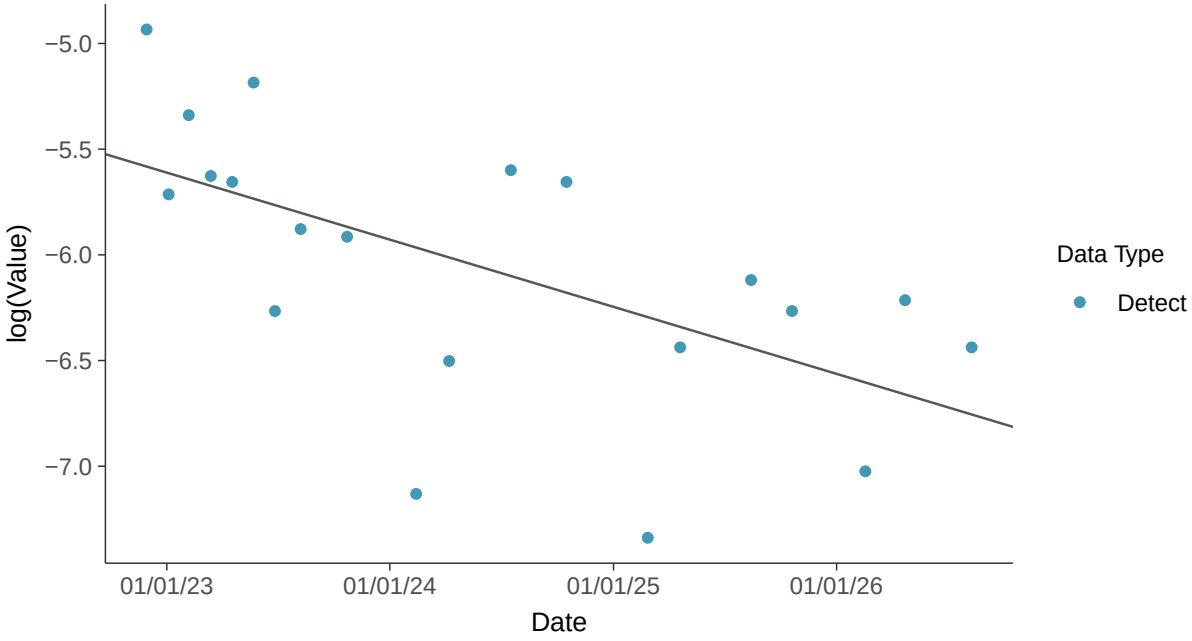
Gamma Q-Q plot

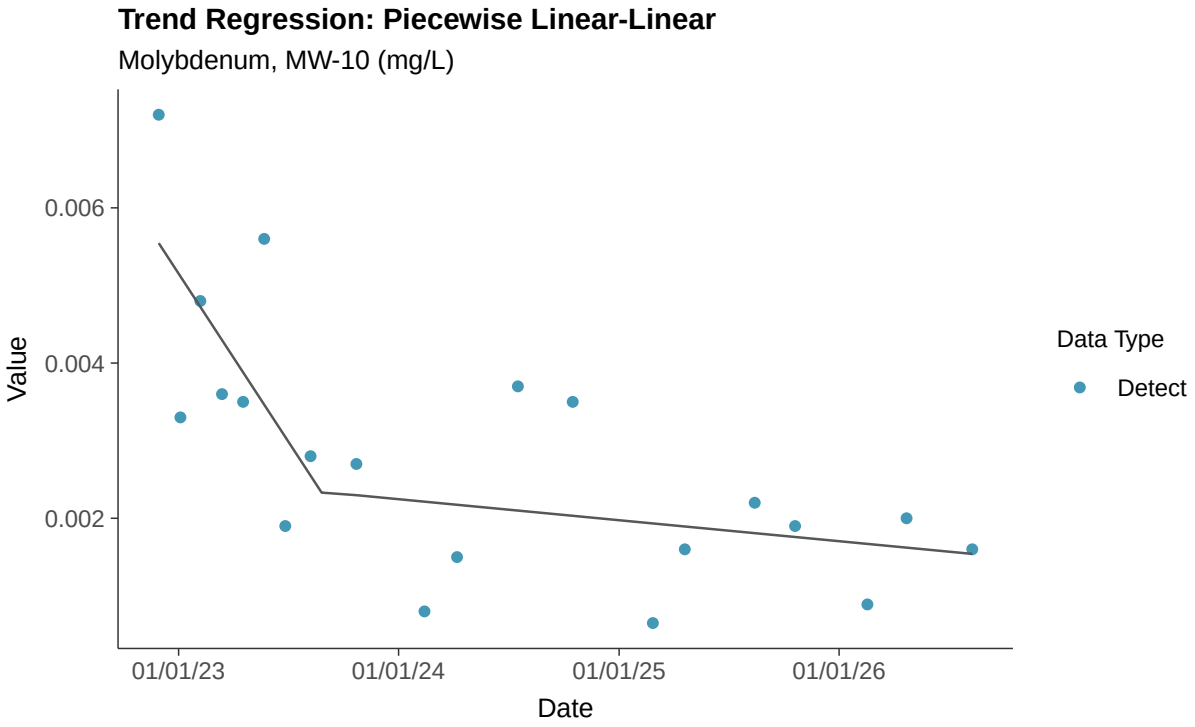
Molybdenum, MW-10 (mg/L)



Trend Regression: Lognormal MLE

Molybdenum, MW-10 (mg/L)



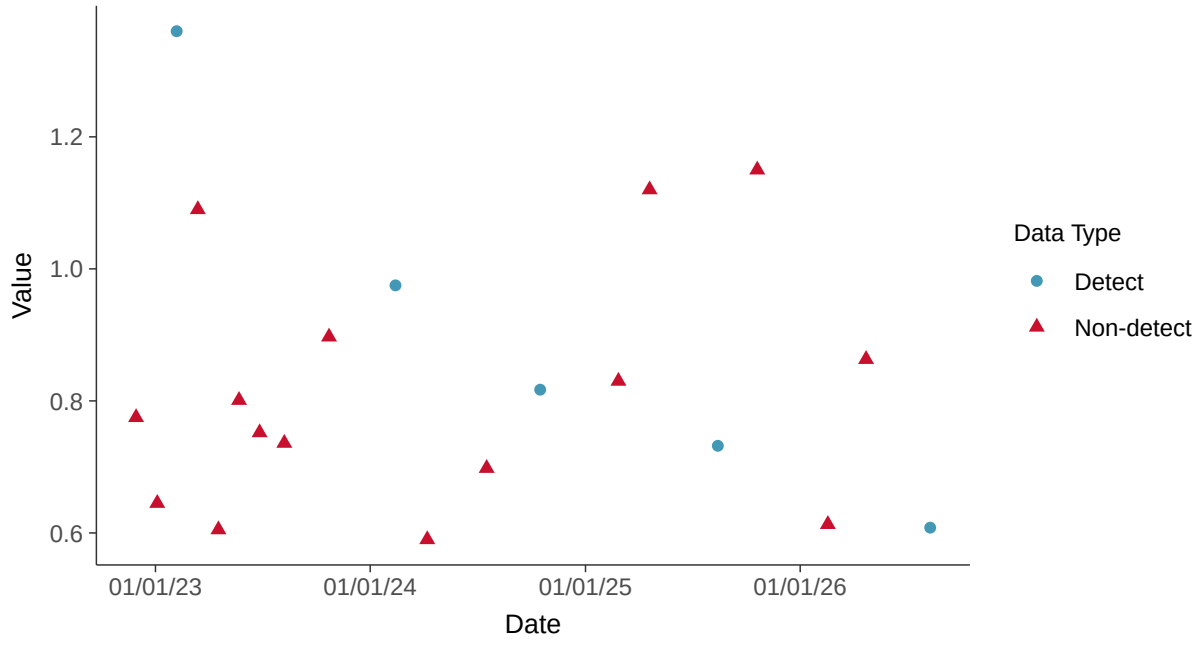

Trend Regression: Piecewise Linear-Linear
Molybdenum, MW-10 (mg/L)
Value
0.006
0.004
0.002
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect

Appendix IV: Radium 226 and 228, MW-10

ID: 20_3_4_121

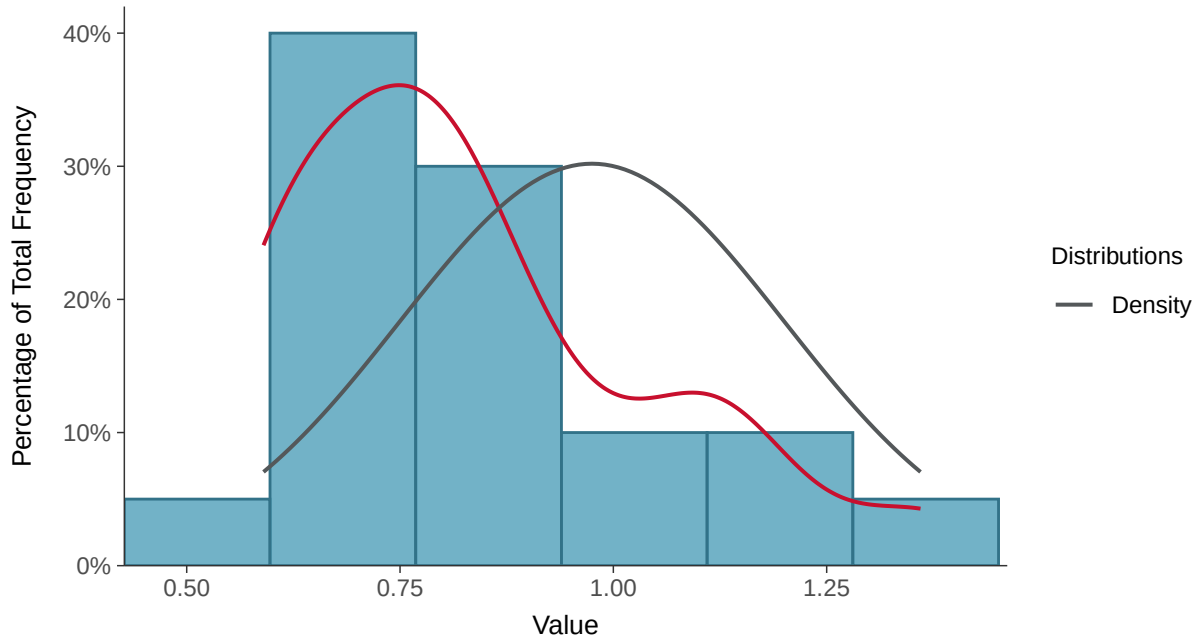
Scatter Plot

Radium 226 and 228, MW-10 (pCi/L)



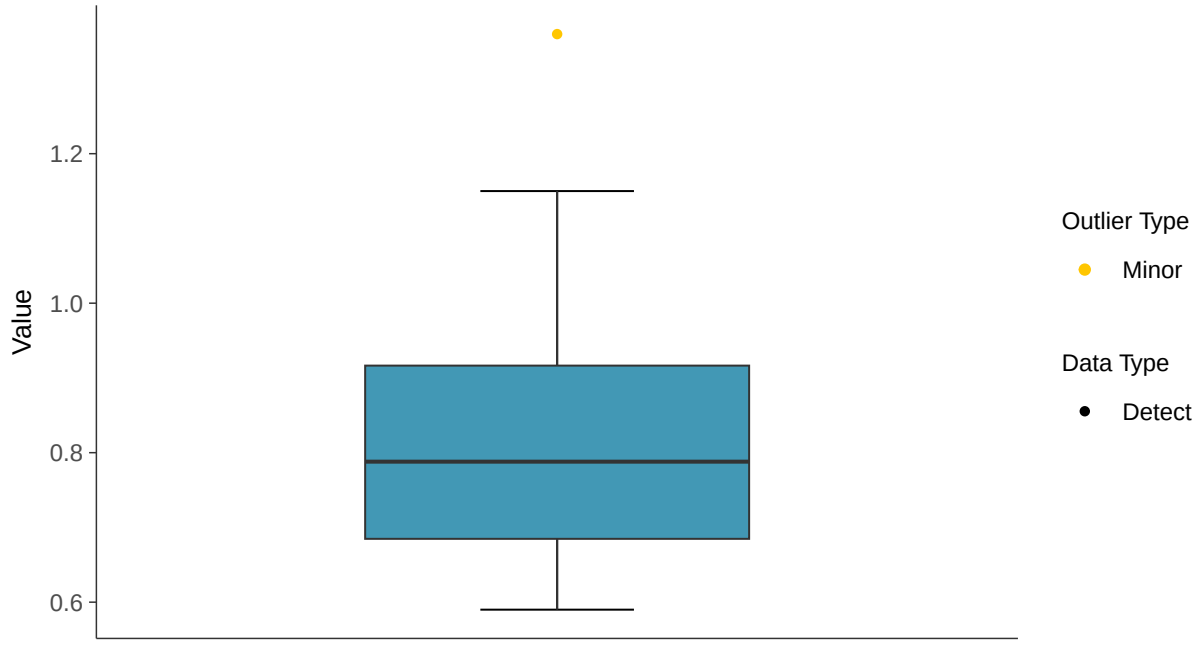
Histogram

Radium 226 and 228, MW-10 (pCi/L)



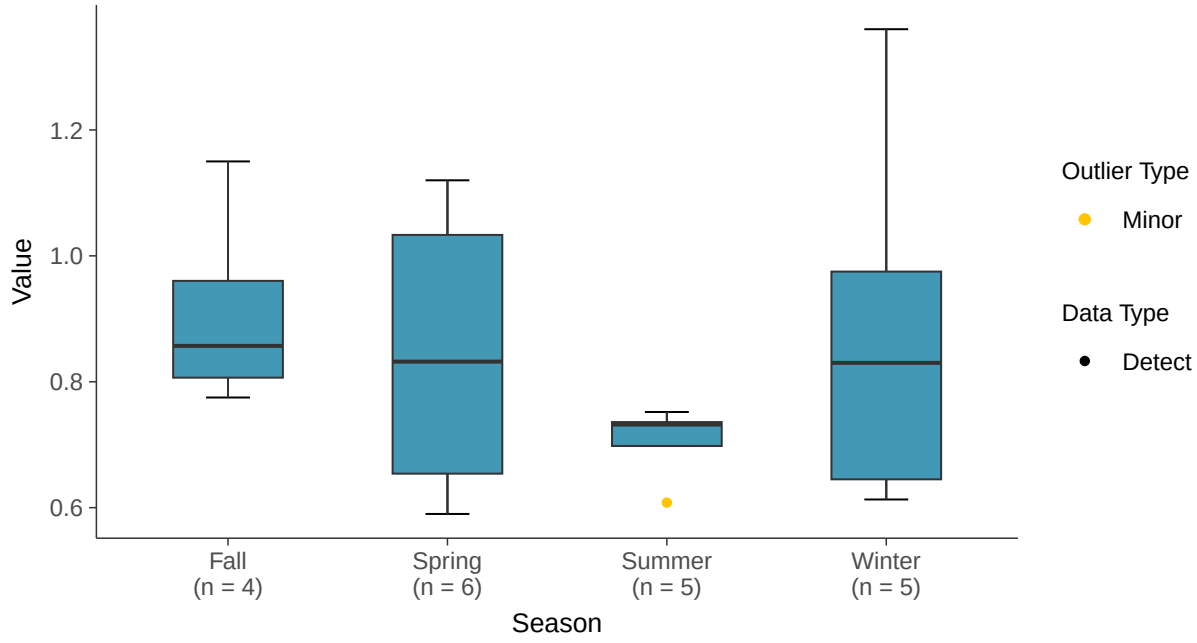
Boxplot

Radium 226 and 228, MW-10 (pCi/L)



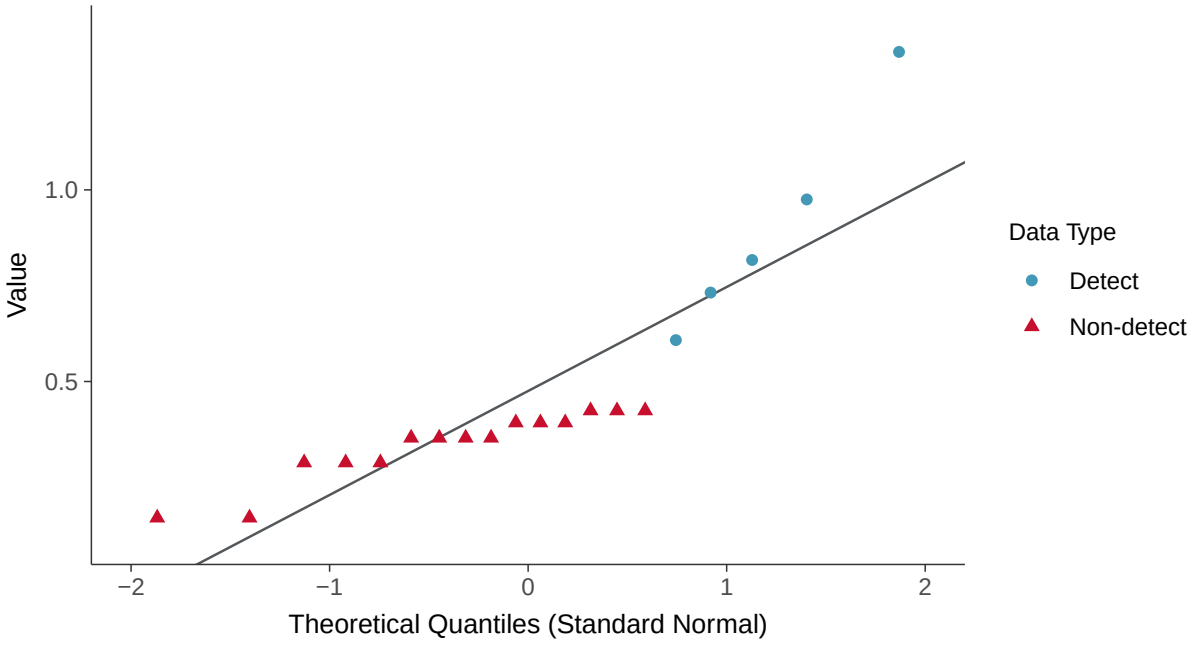
Boxplot by Season

Radium 226 and 228, MW-10 (pCi/L)



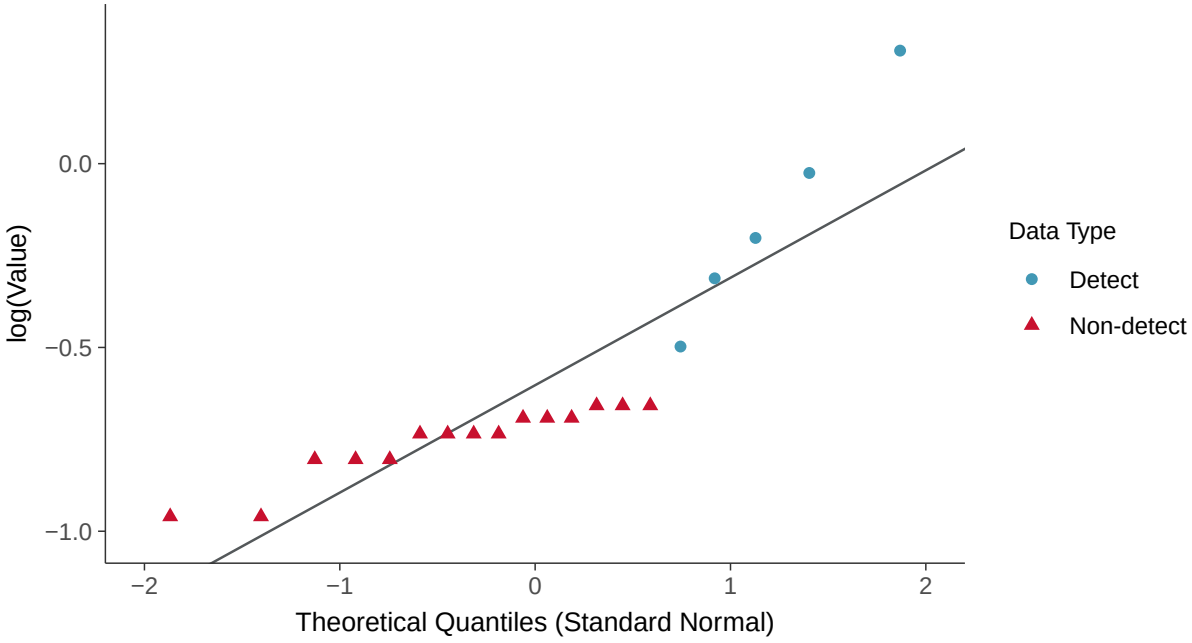
Normal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-10 (pCi/L)



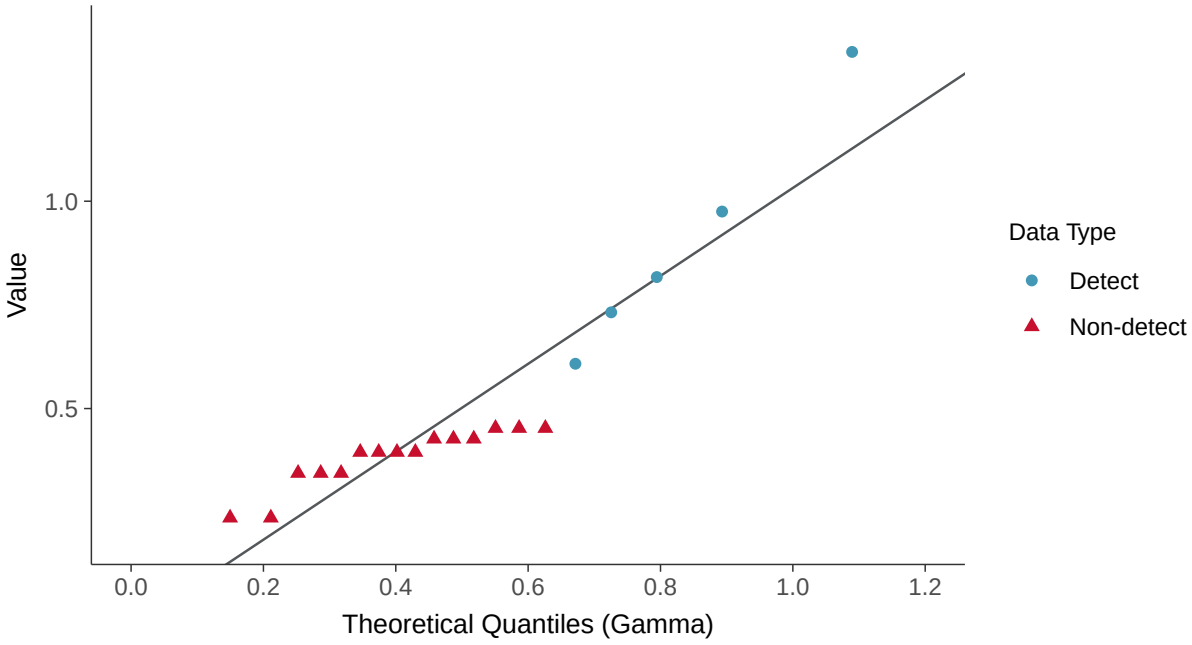
Lognormal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-10 (pCi/L)



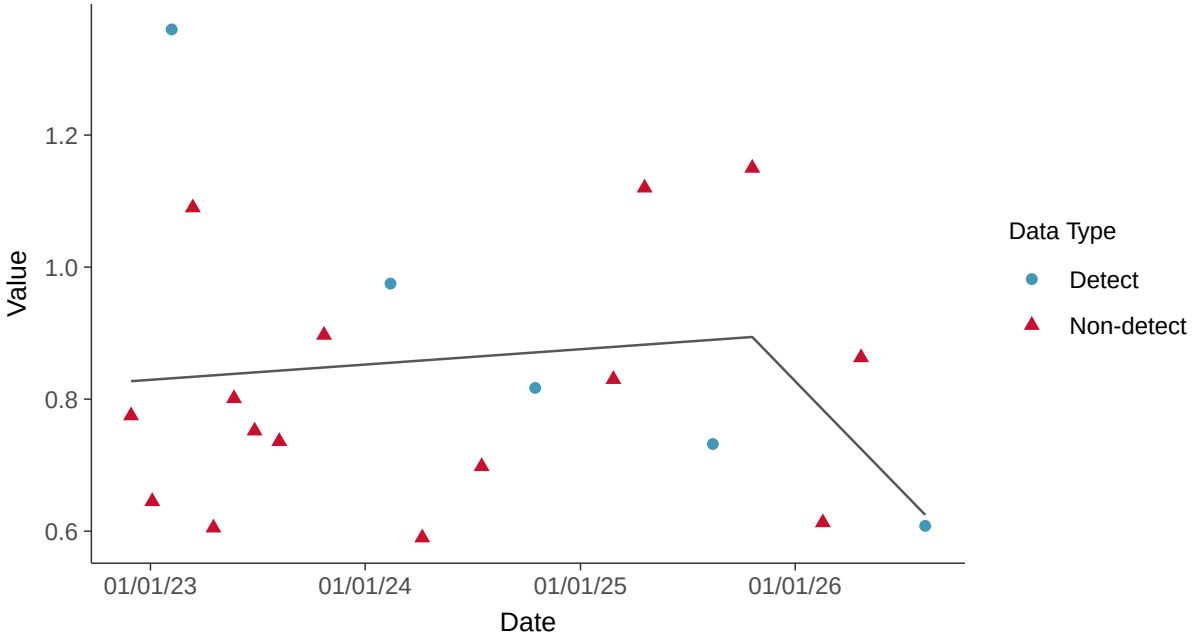
Gamma Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-10 (pCi/L)



Trend Regression: Piecewise Linear-Linear

Radium 226 and 228, MW-10 (pCi/L)

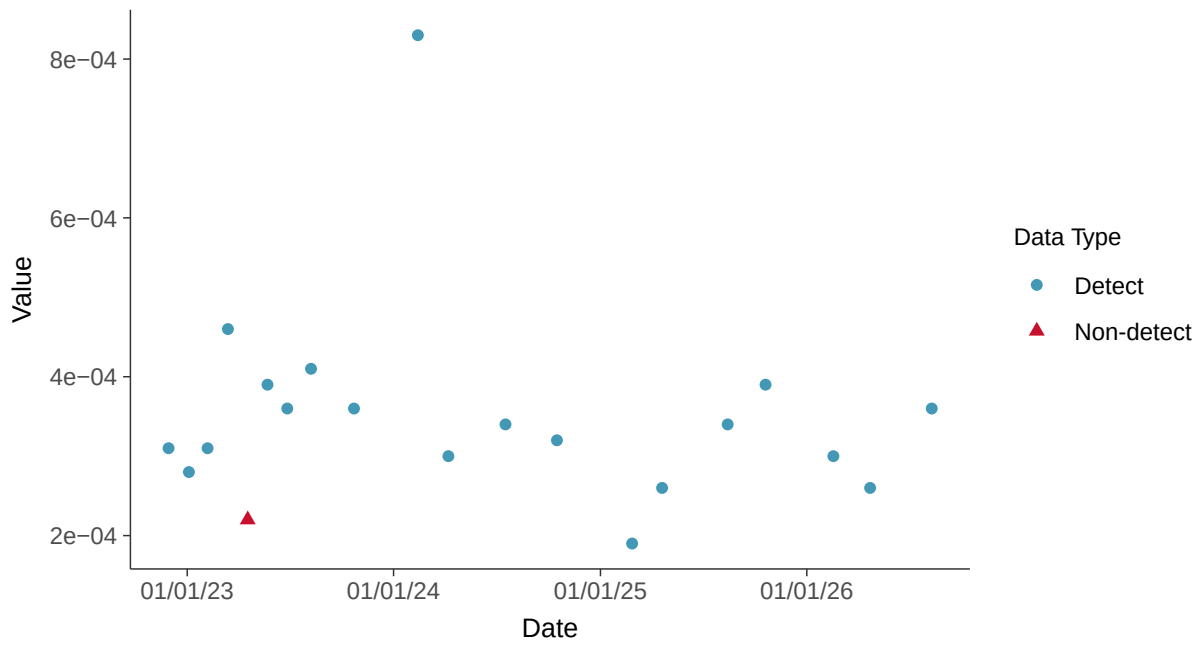


Appendix IV: Selenium, MW-10

ID: 20_3_4_122

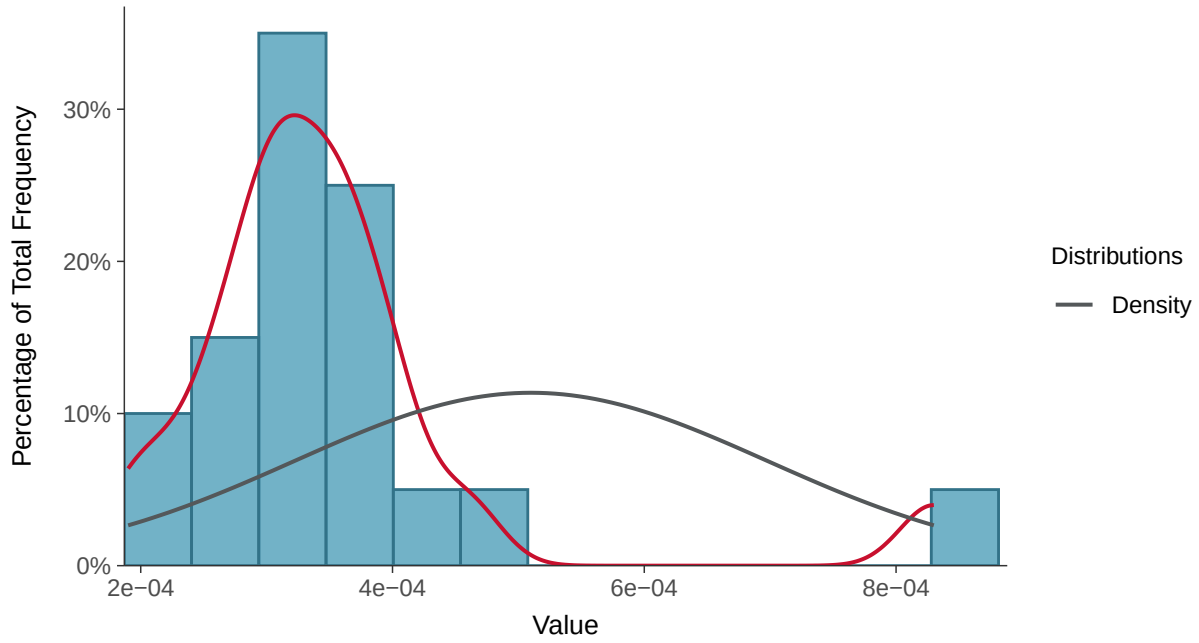
Scatter Plot

Selenium, MW-10 (mg/L)



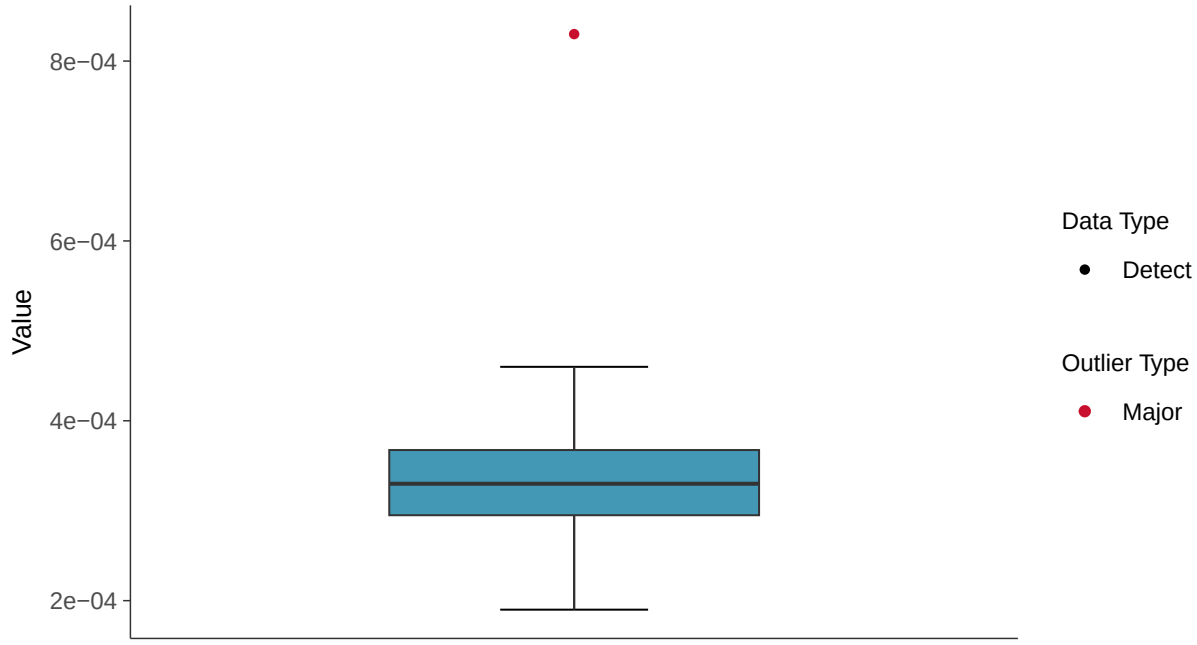
Histogram

Selenium, MW-10 (mg/L)



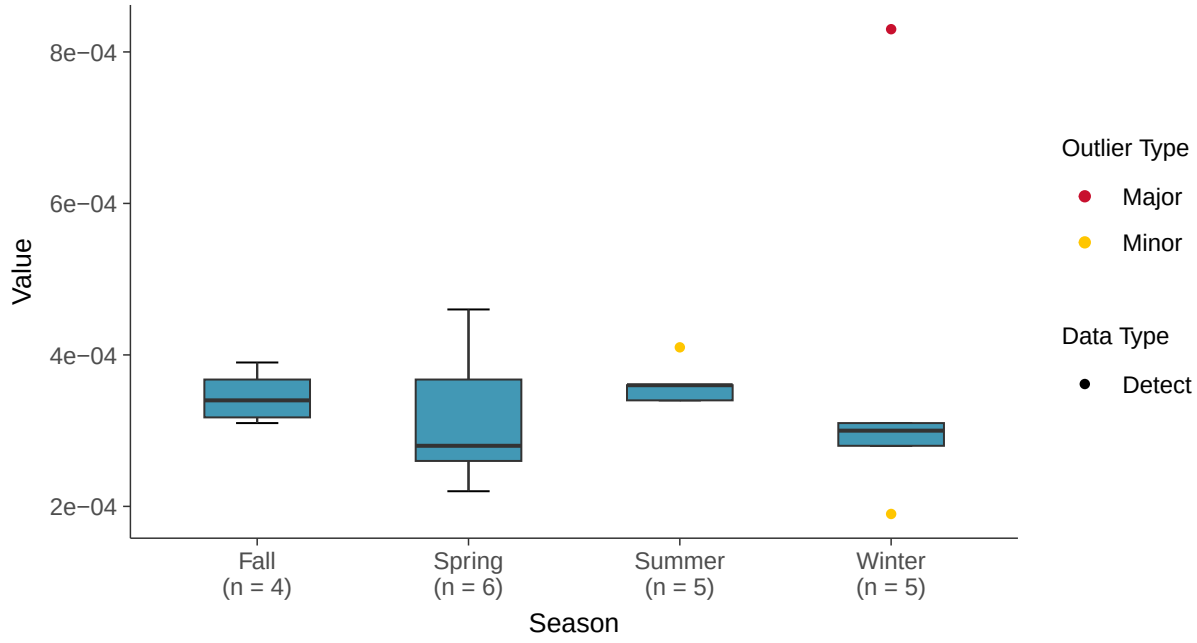
Boxplot

Selenium, MW-10 (mg/L)



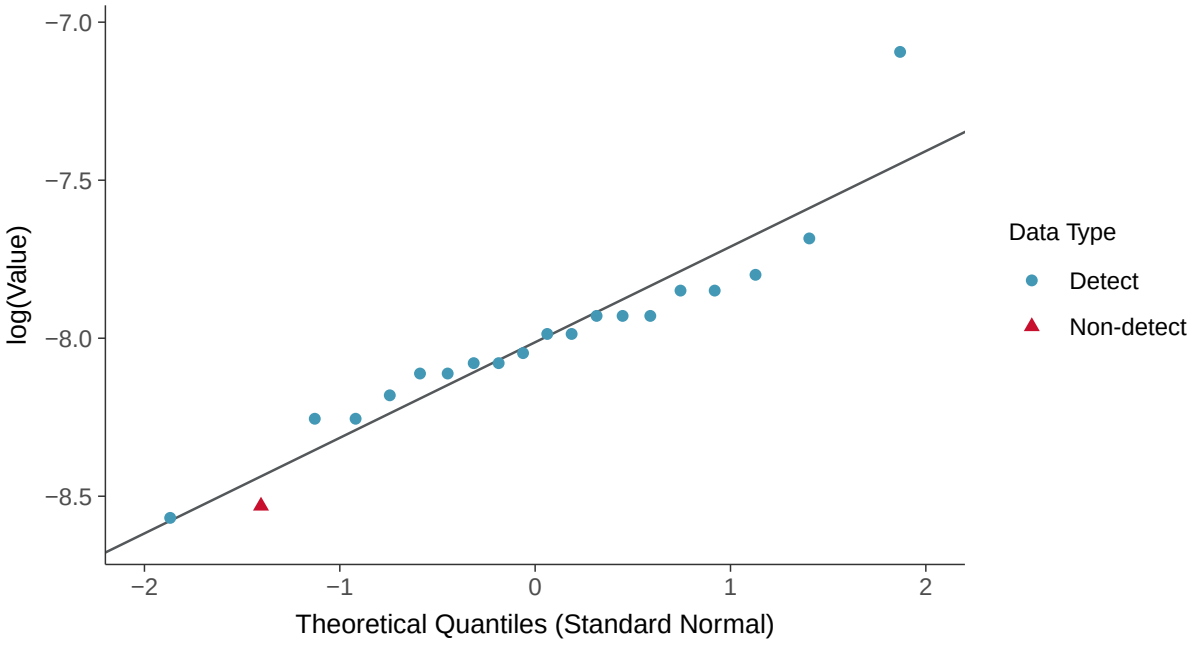
Boxplot by Season

Selenium, MW-10 (mg/L)



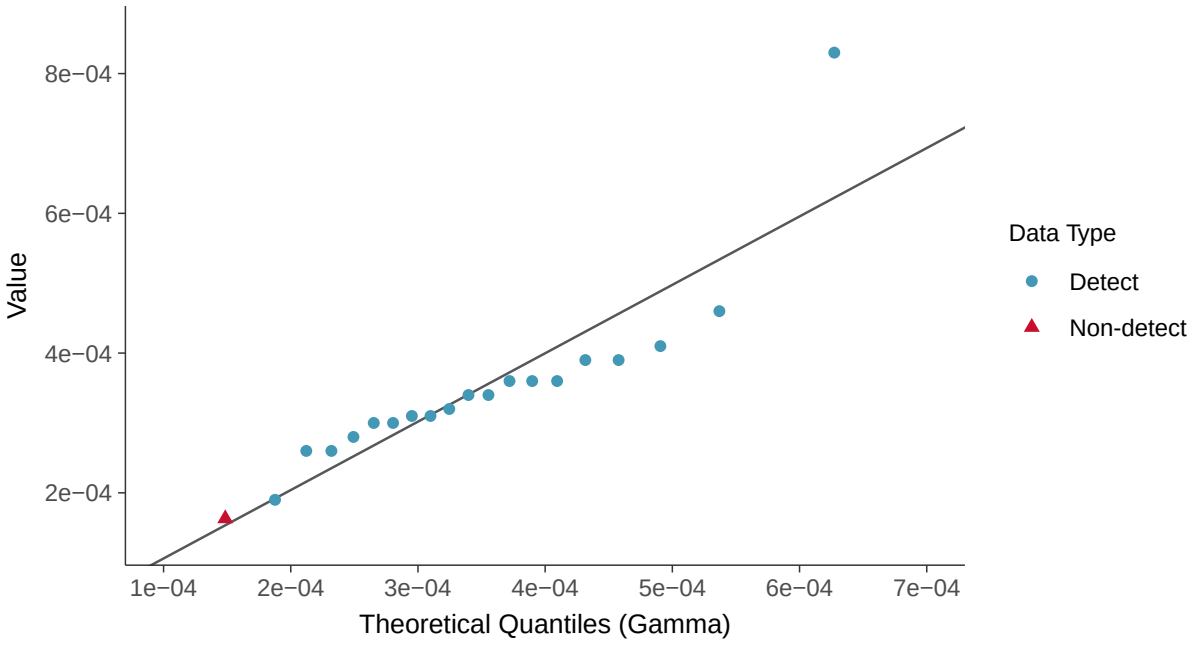
Lognormal Q-Q plot using ROS Imputed Estimates

Selenium, MW-10 (mg/L)



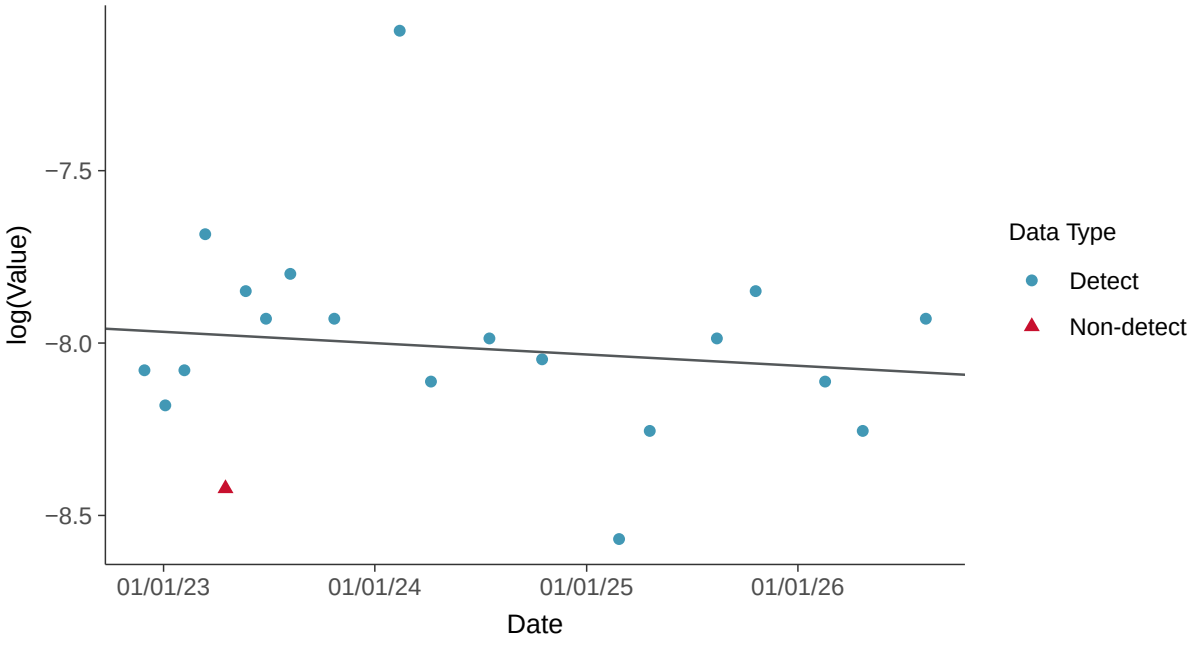
Gamma Q-Q plot using ROS Imputed Estimates

Selenium, MW-10 (mg/L)



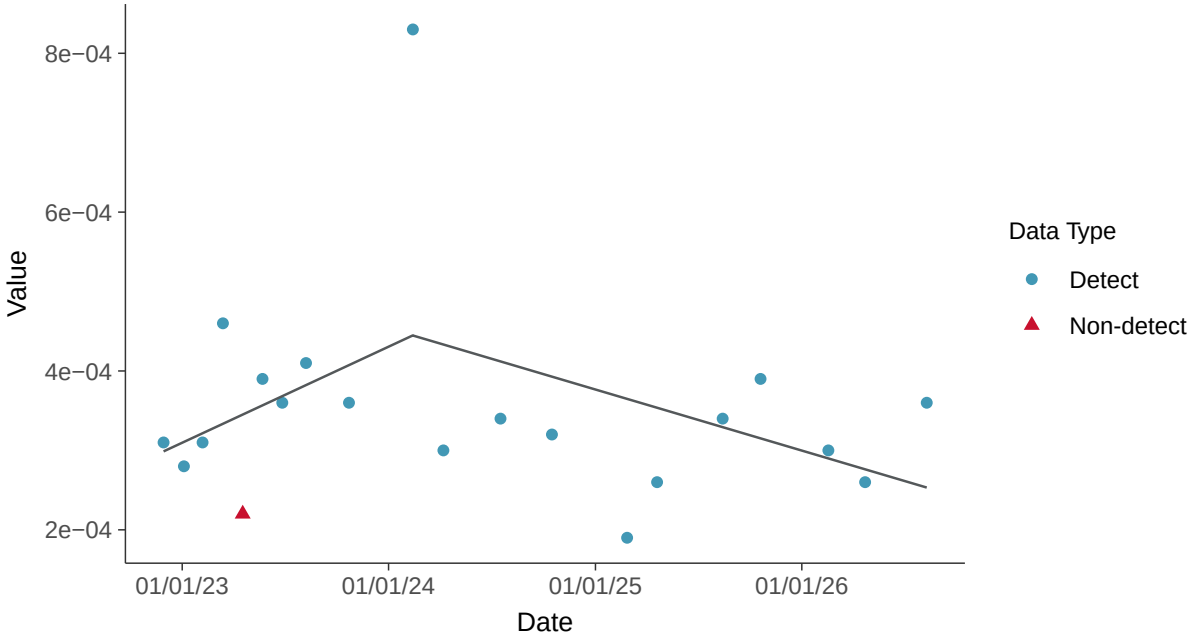
Trend Regression: Lognormal MLE

Selenium, MW-10 (mg/L)



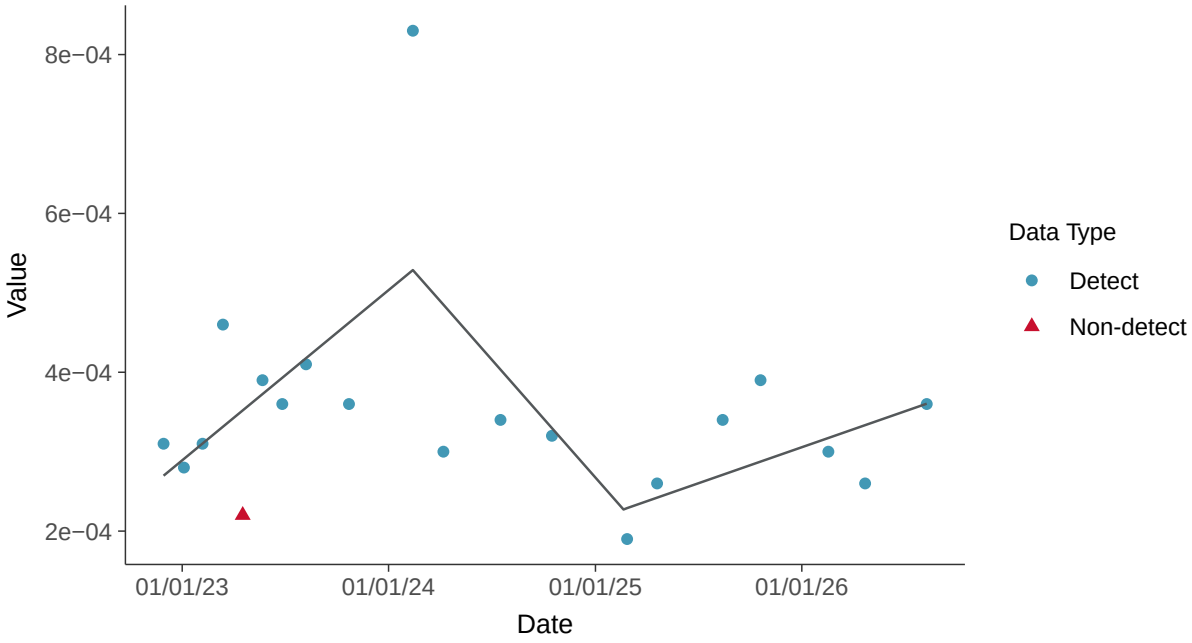
Trend Regression: Piecewise Linear-Linear

Selenium, MW-10 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Selenium, MW-10 (mg/L)

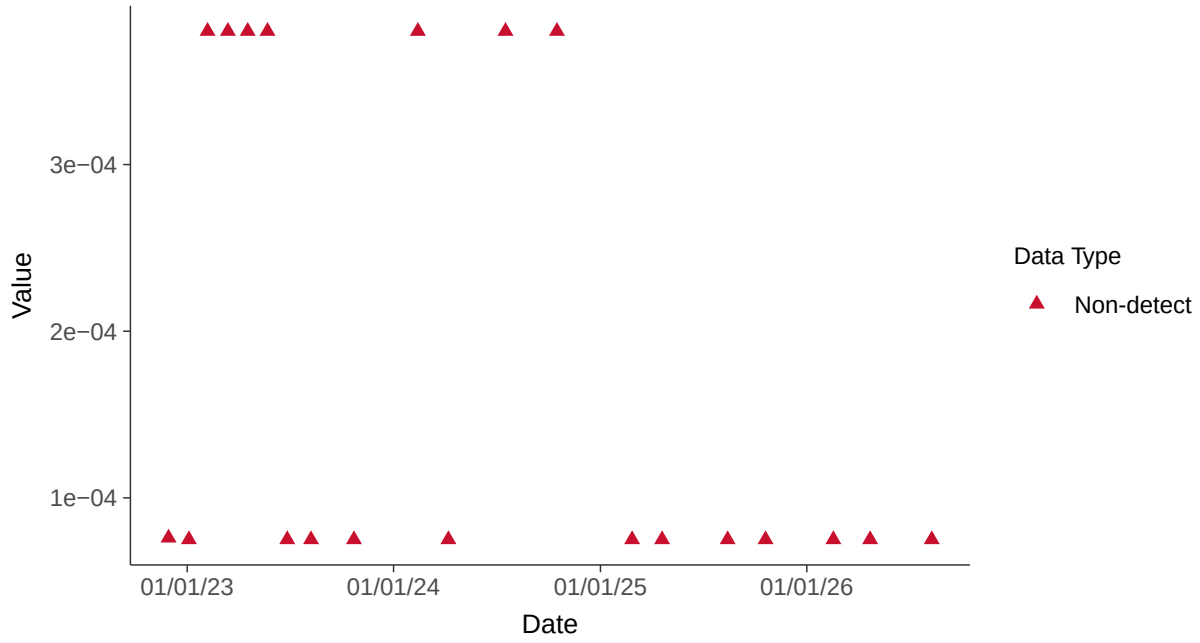


Appendix IV: Thallium, MW-10

ID: 20_3_4_125

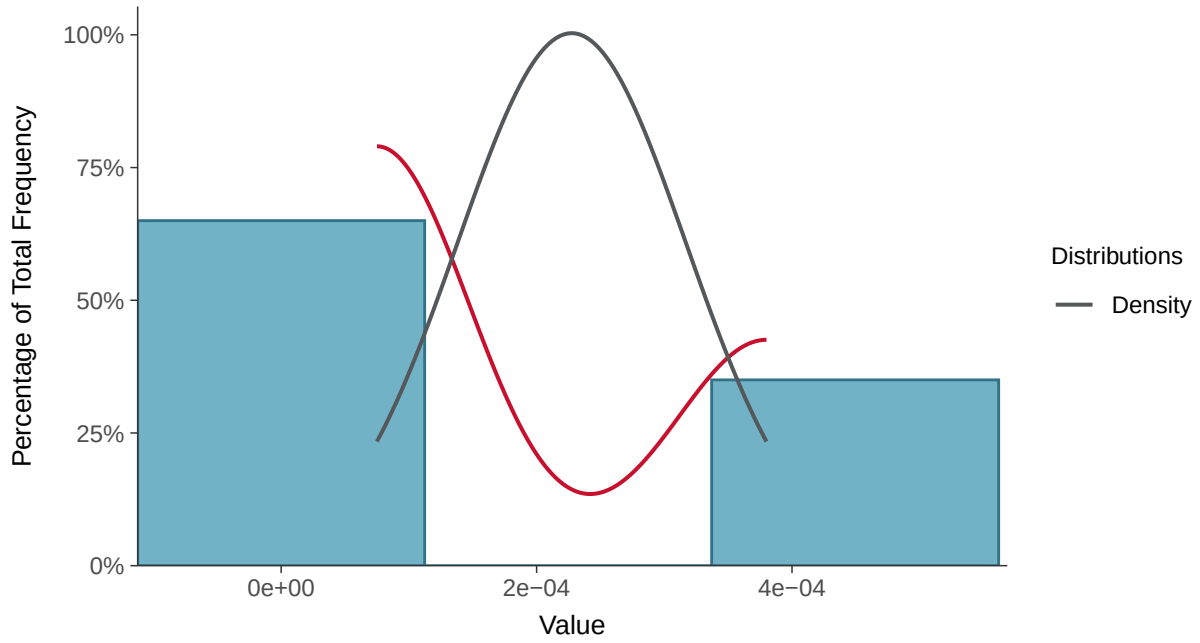
Scatter Plot

Thallium, MW-10 (mg/L)



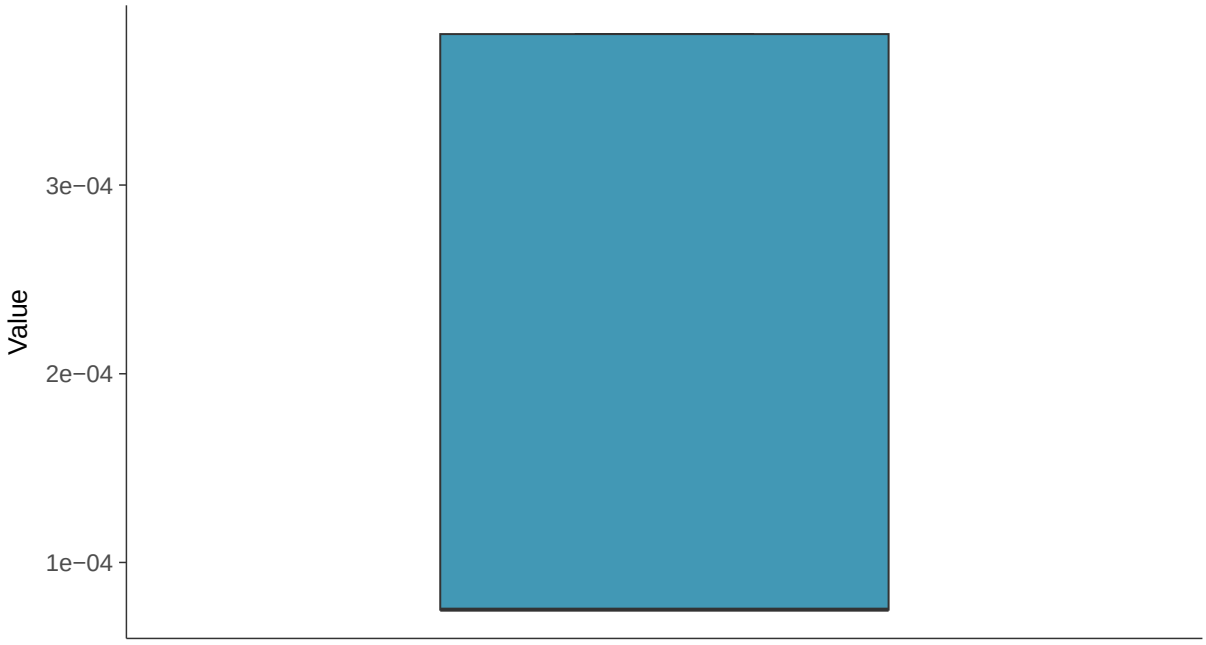
Histogram

Thallium, MW-10 (mg/L)



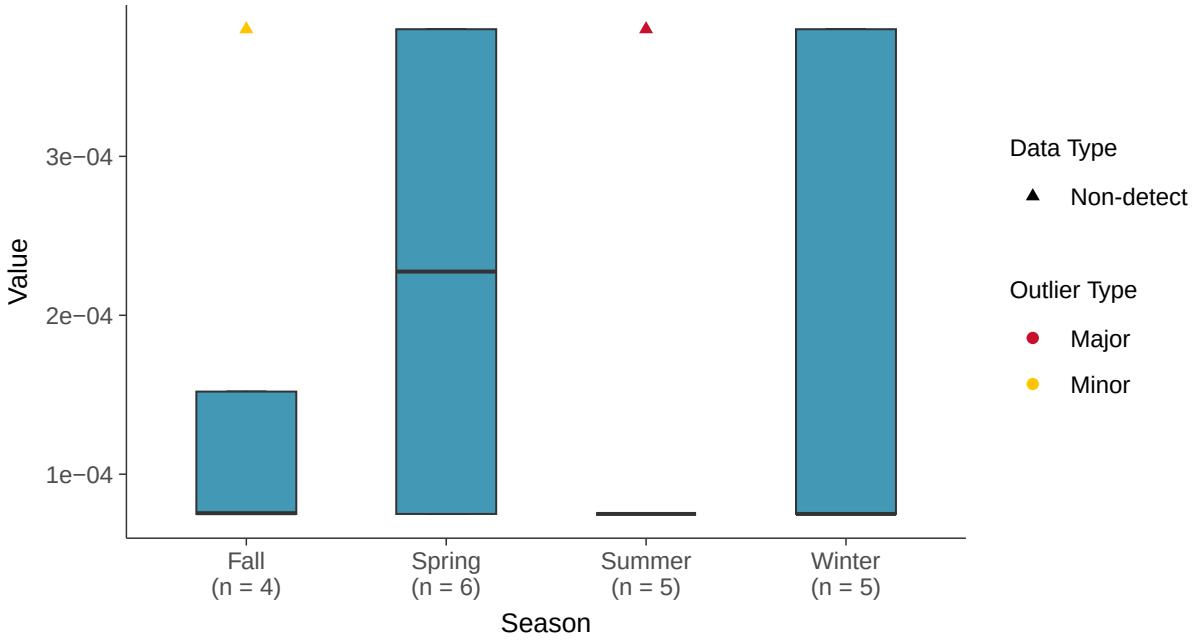
Boxplot

Thallium, MW-10 (mg/L)



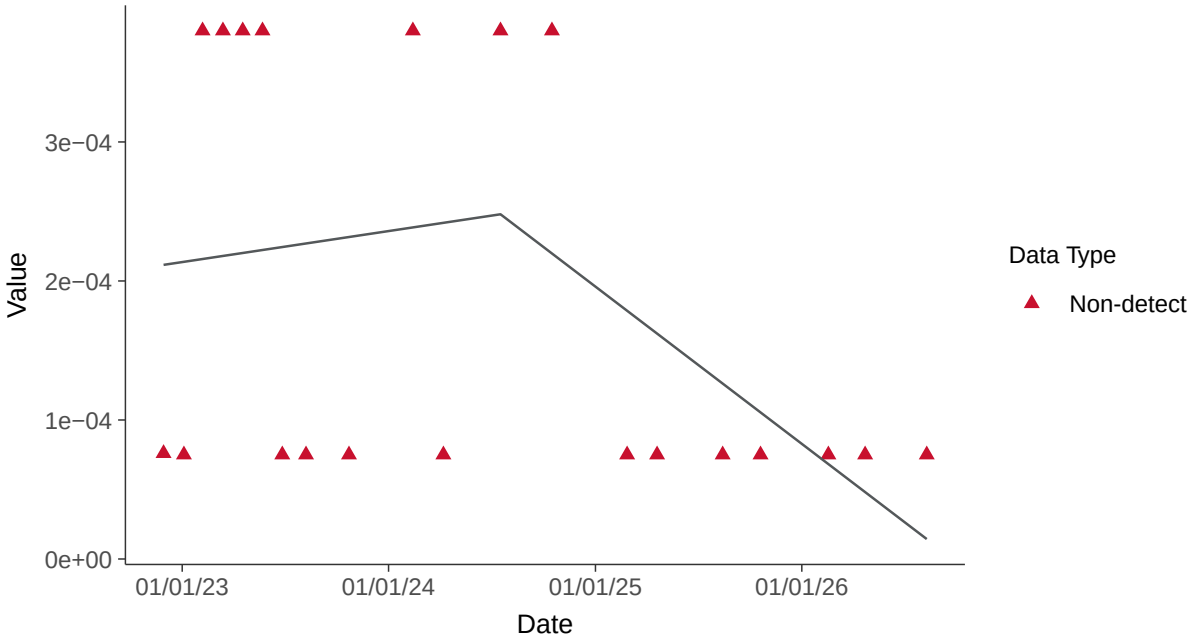
Boxplot by Season

Thallium, MW-10 (mg/L)



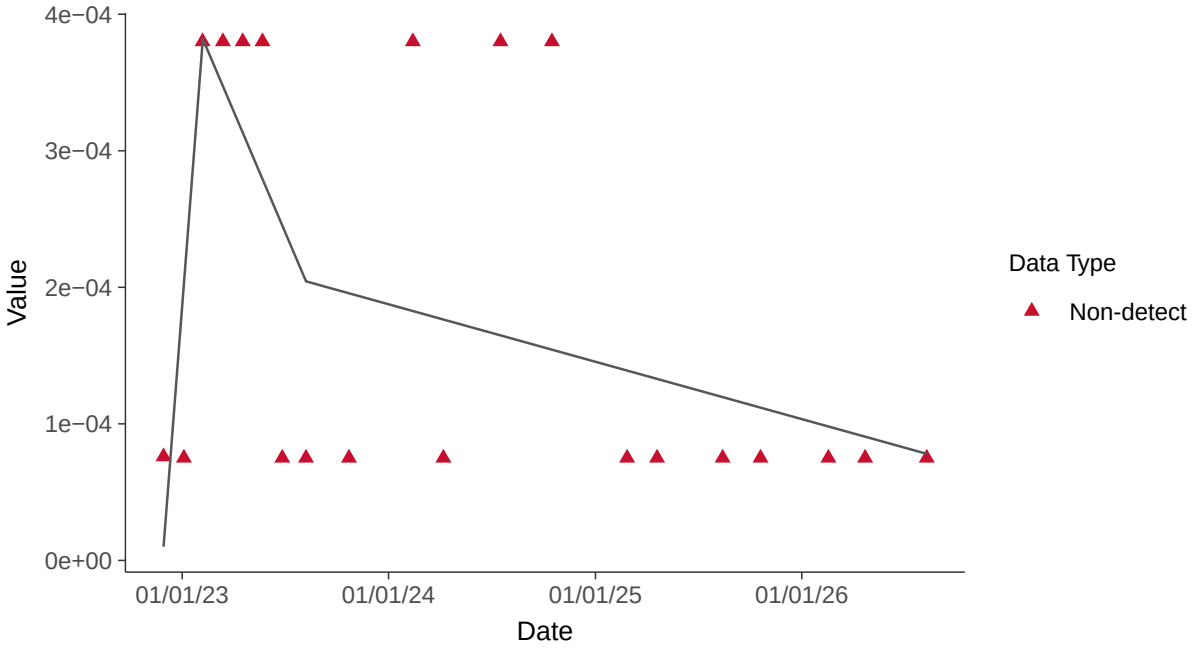
Trend Regression: Piecewise Linear-Linear

Thallium, MW-10 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Thallium, MW-10 (mg/L)

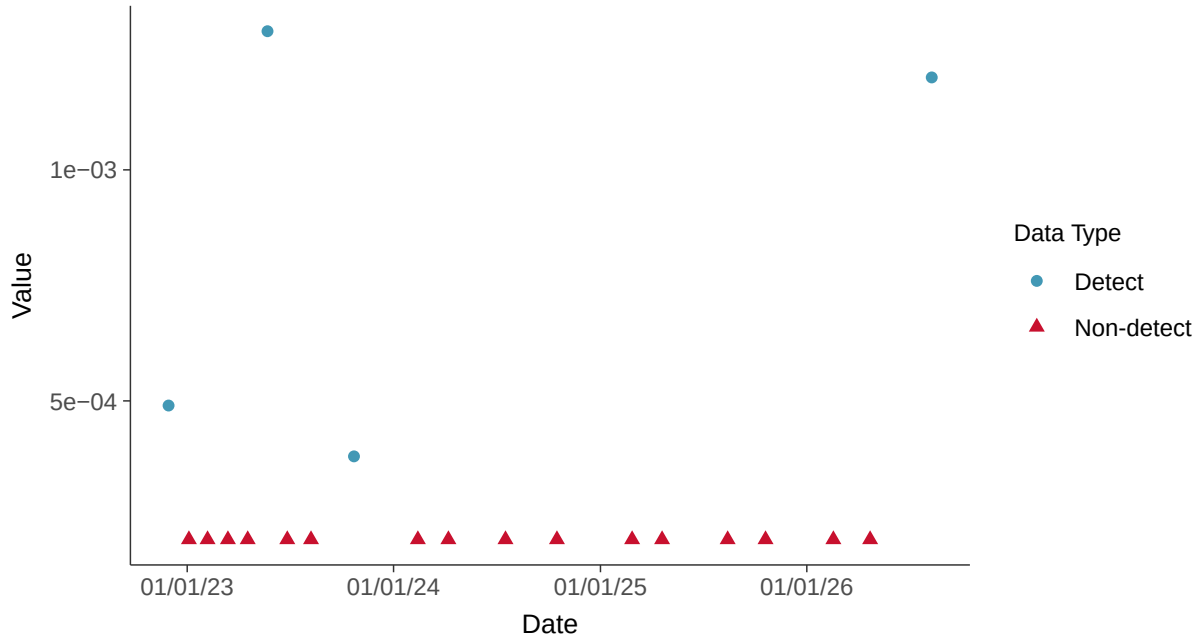


Part 115: Copper, MW-10

ID: 20_3_5_111

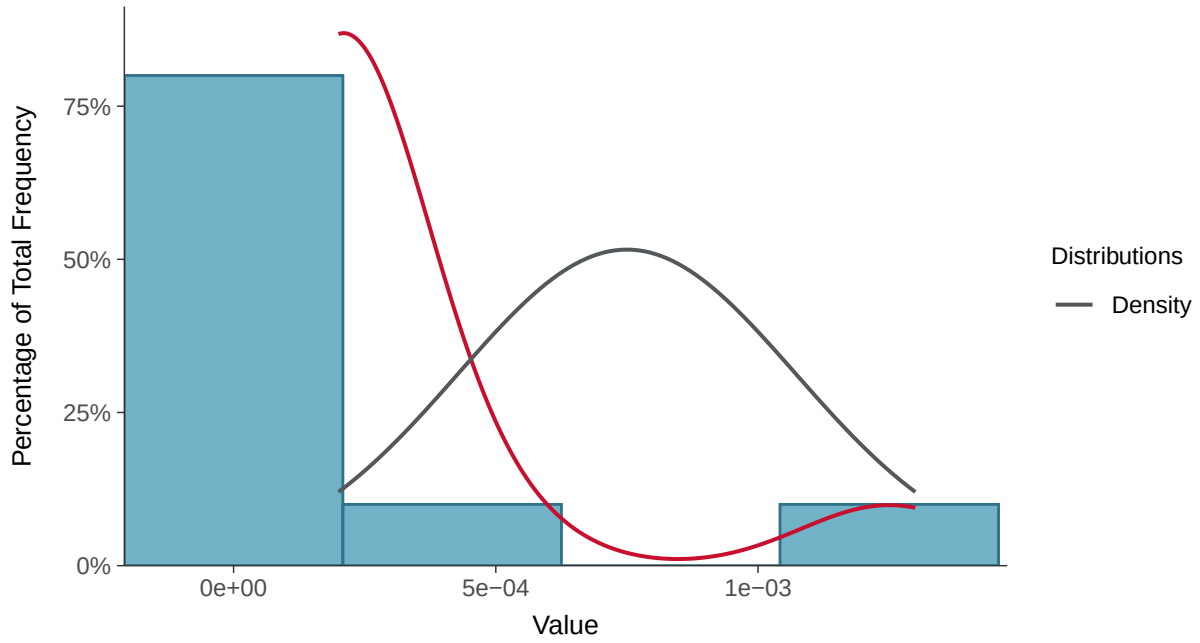
Scatter Plot

Copper, MW-10 (mg/L)



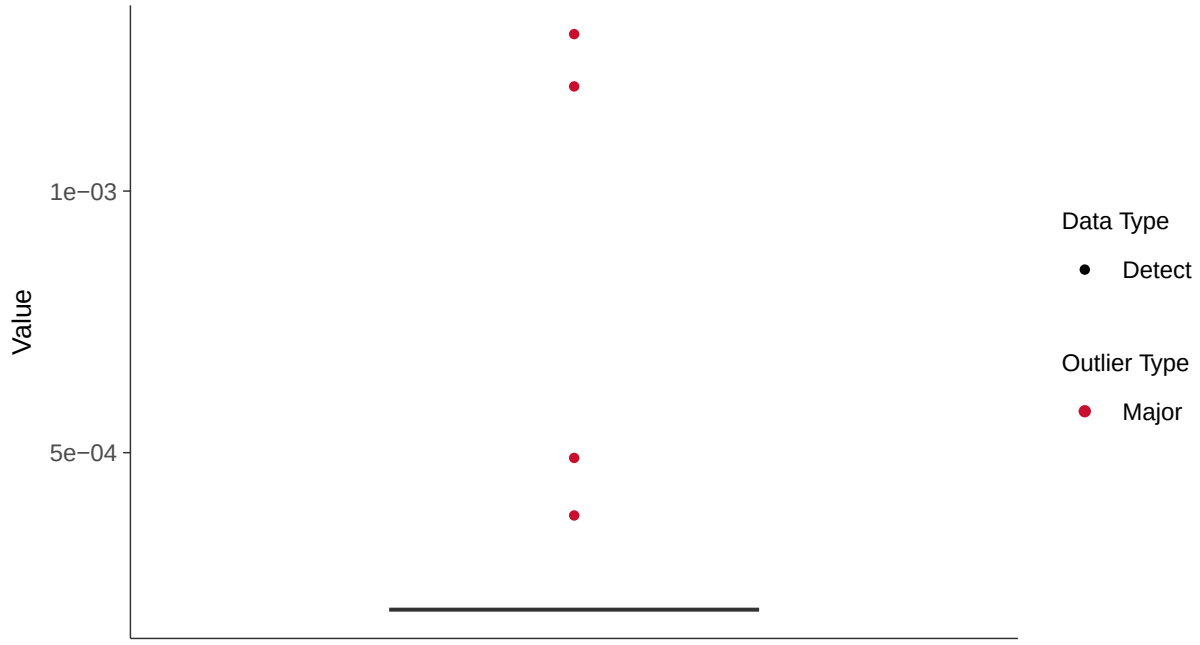
Histogram

Copper, MW-10 (mg/L)



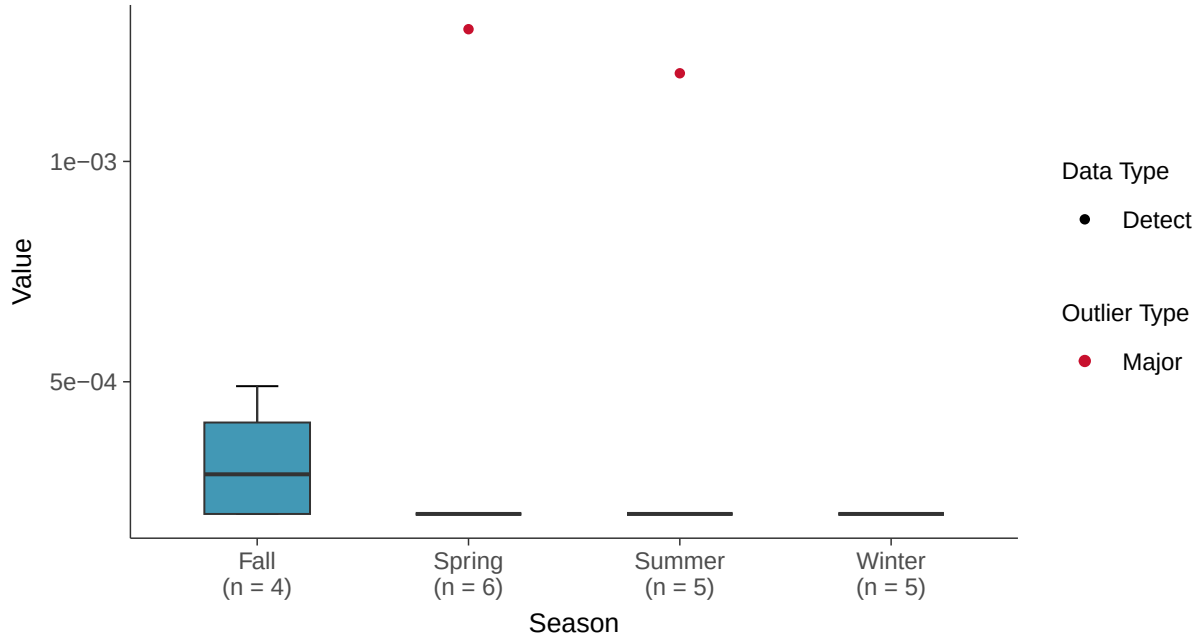
Boxplot

Copper, MW-10 (mg/L)



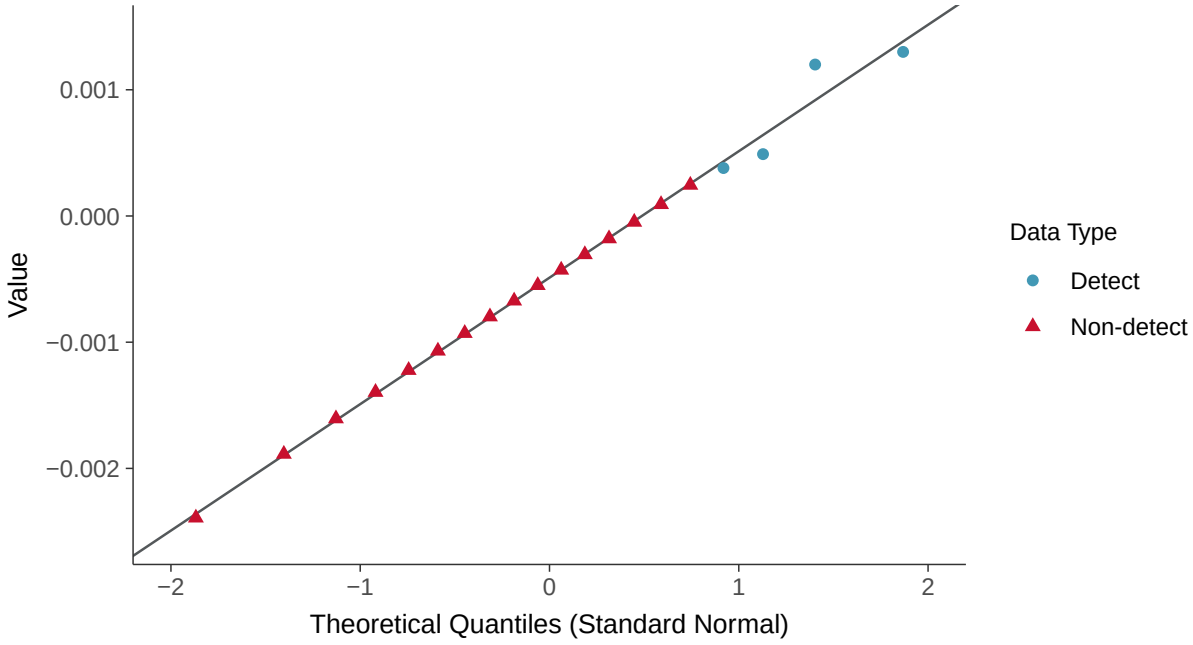
Boxplot by Season

Copper, MW-10 (mg/L)



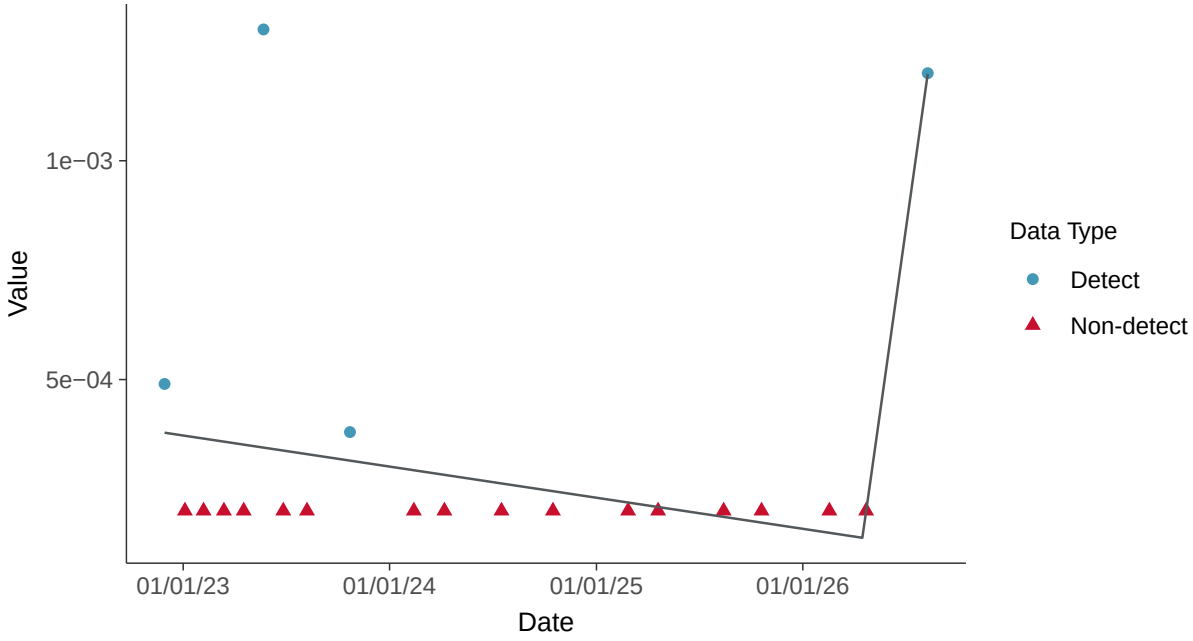
Normal Q-Q plot using ROS Imputed Estimates

Copper, MW-10 (mg/L)



Trend Regression: Piecewise Linear-Linear

Copper, MW-10 (mg/L)

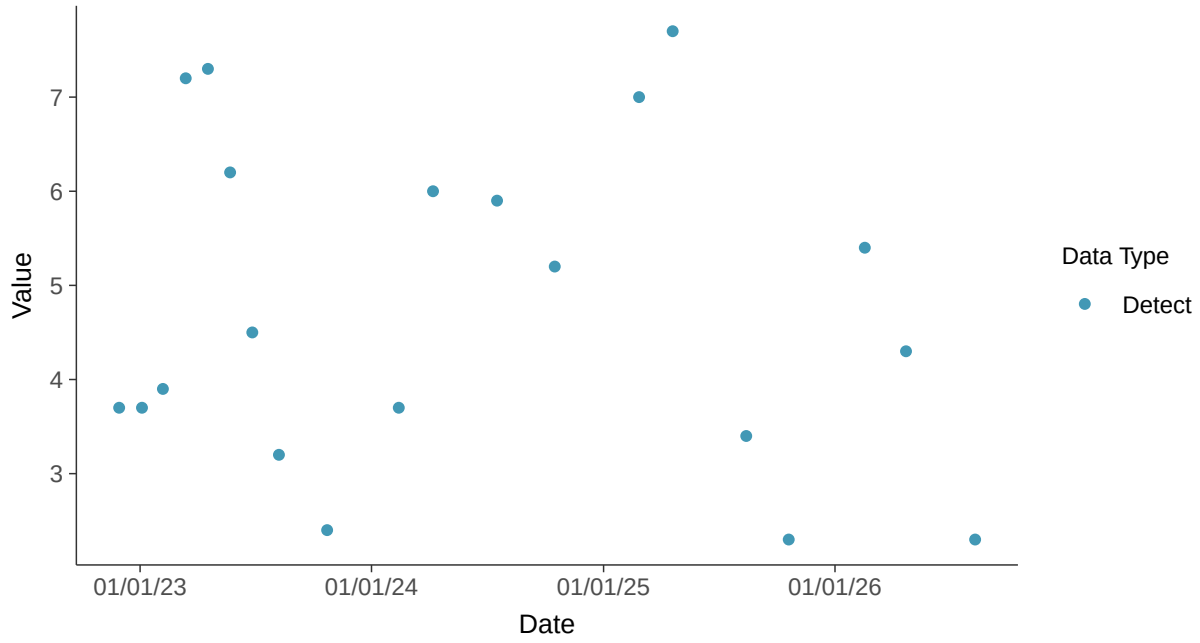


Part 115: Iron, MW-10

ID: 20_3_5_114

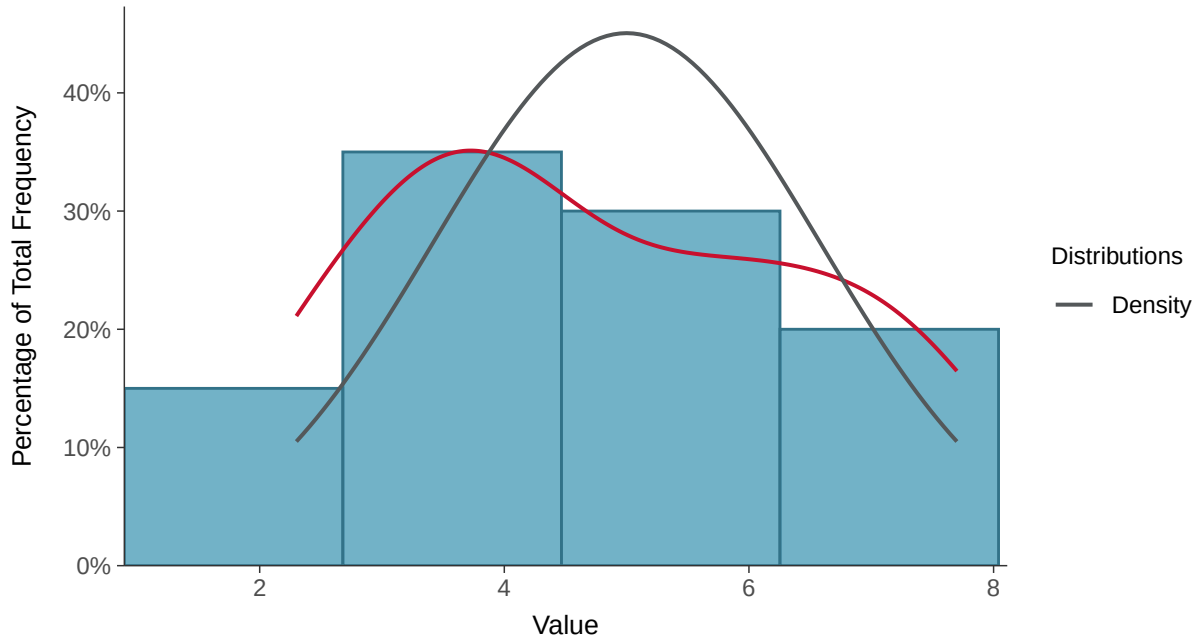
Scatter Plot

Iron, MW-10 (mg/L)



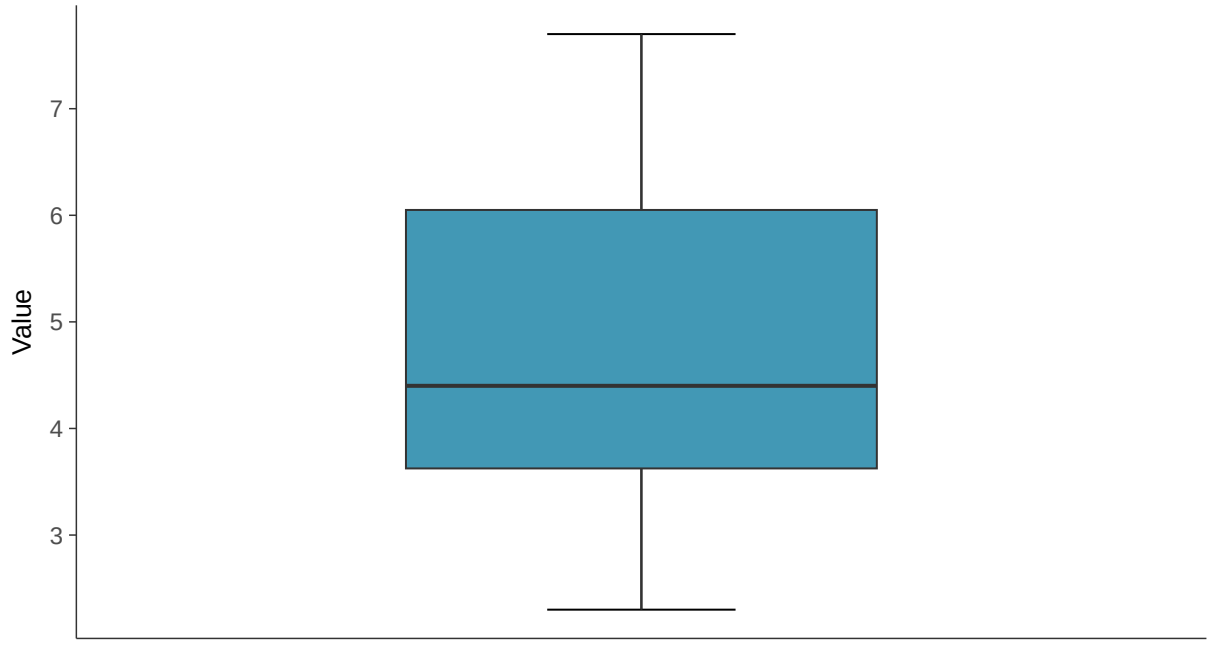
Histogram

Iron, MW-10 (mg/L)



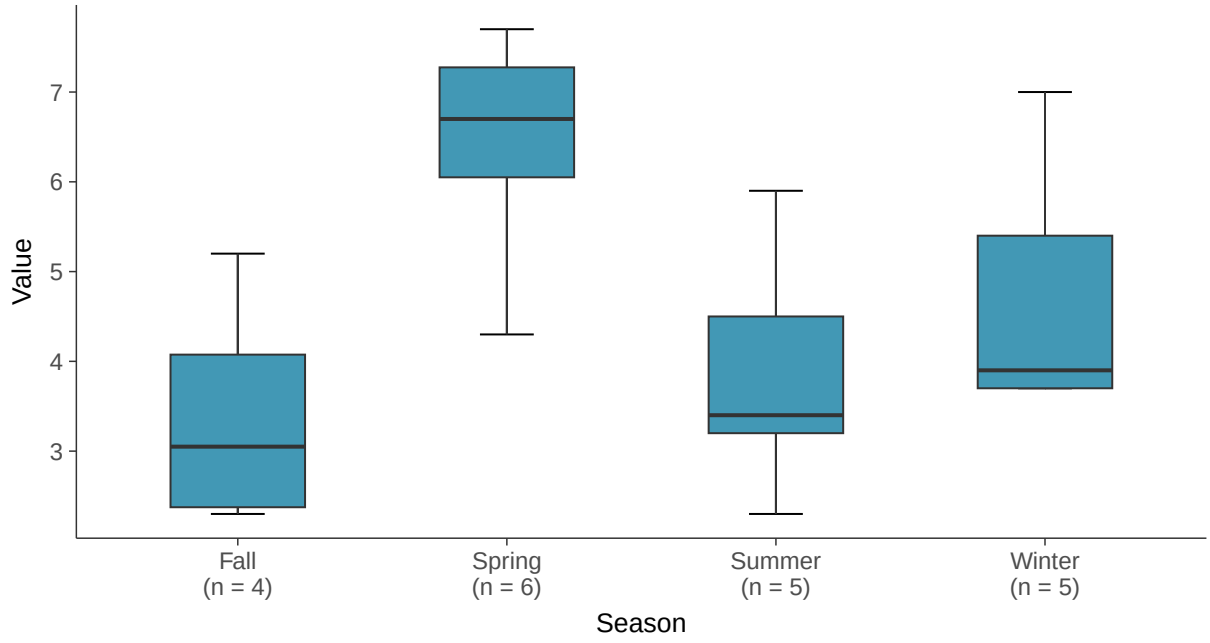
Boxplot

Iron, MW-10 (mg/L)



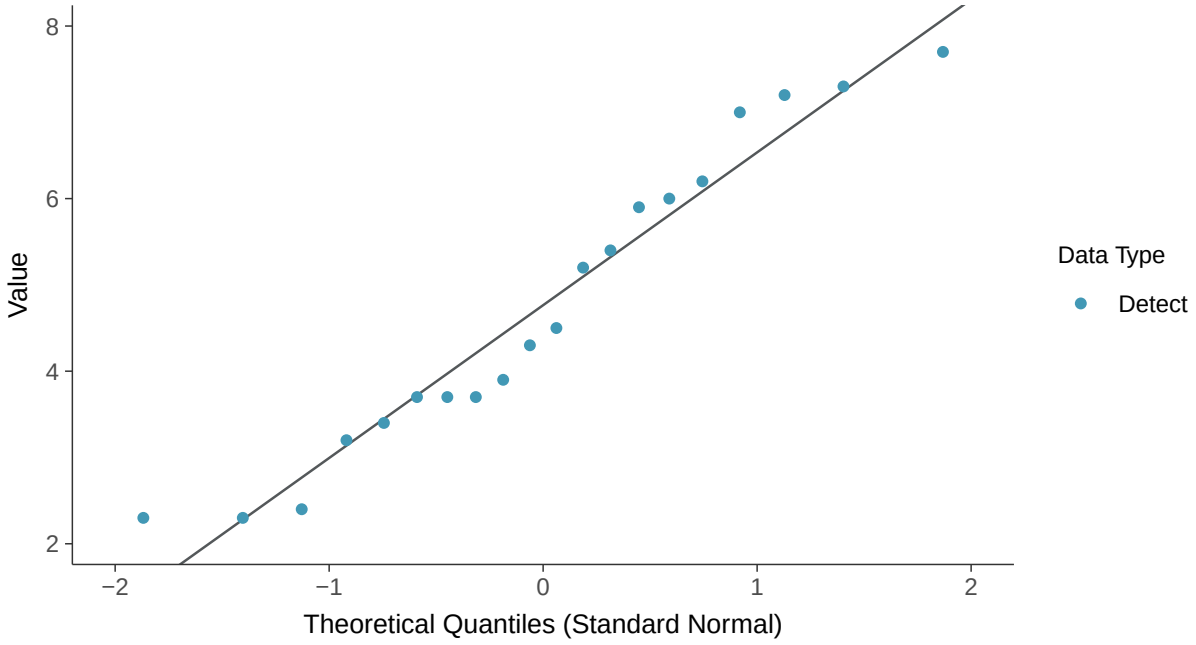
Boxplot by Season

Iron, MW-10 (mg/L)



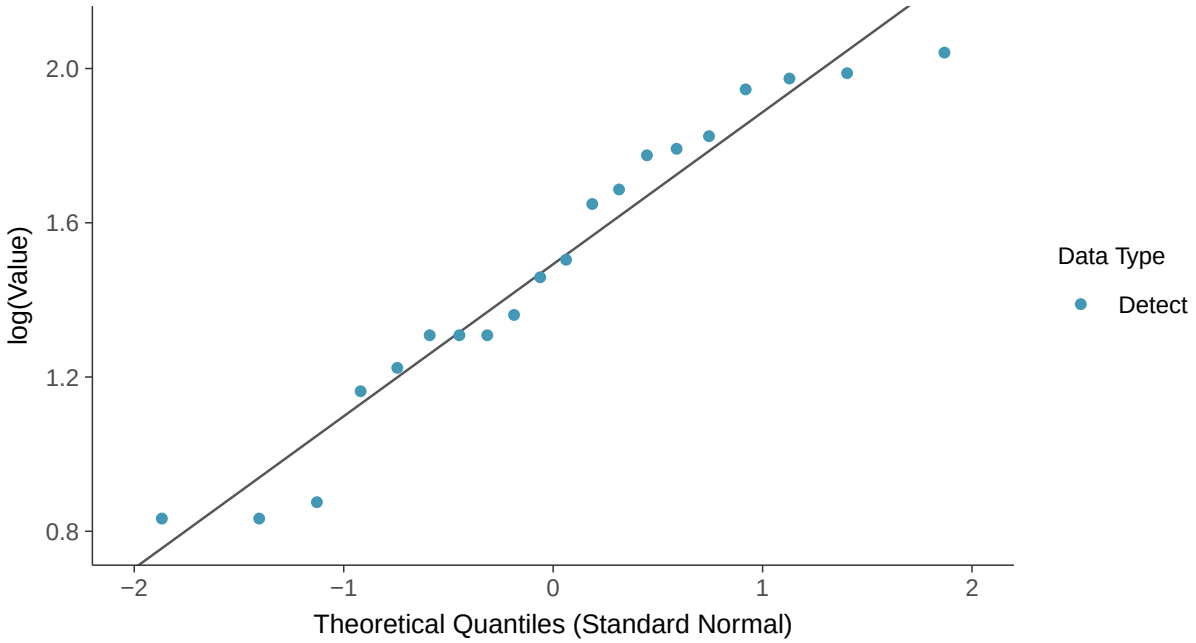
Normal Q-Q plot

Iron, MW-10 (mg/L)



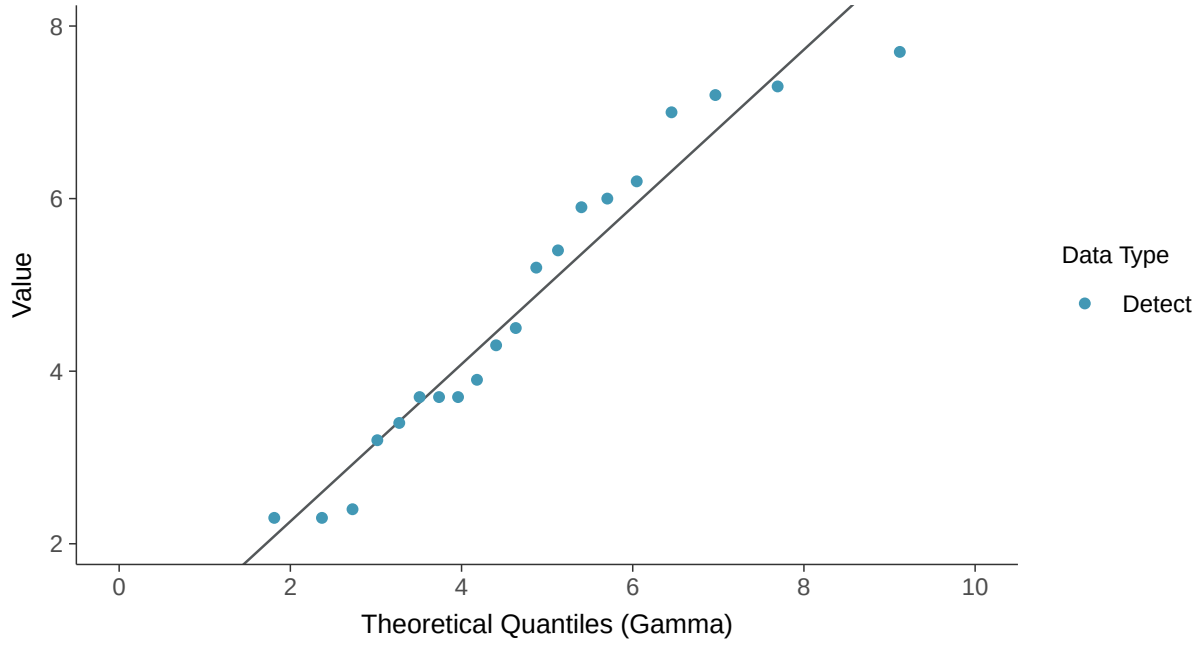
Lognormal Q-Q plot

Iron, MW-10 (mg/L)



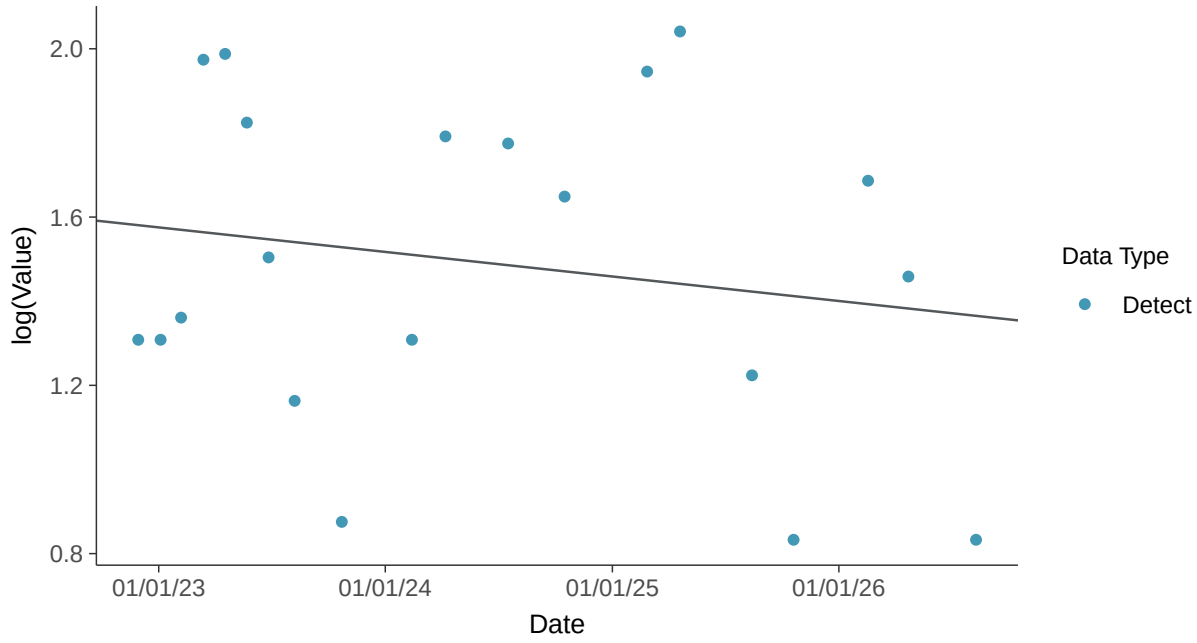
Gamma Q-Q plot

Iron, MW-10 (mg/L)



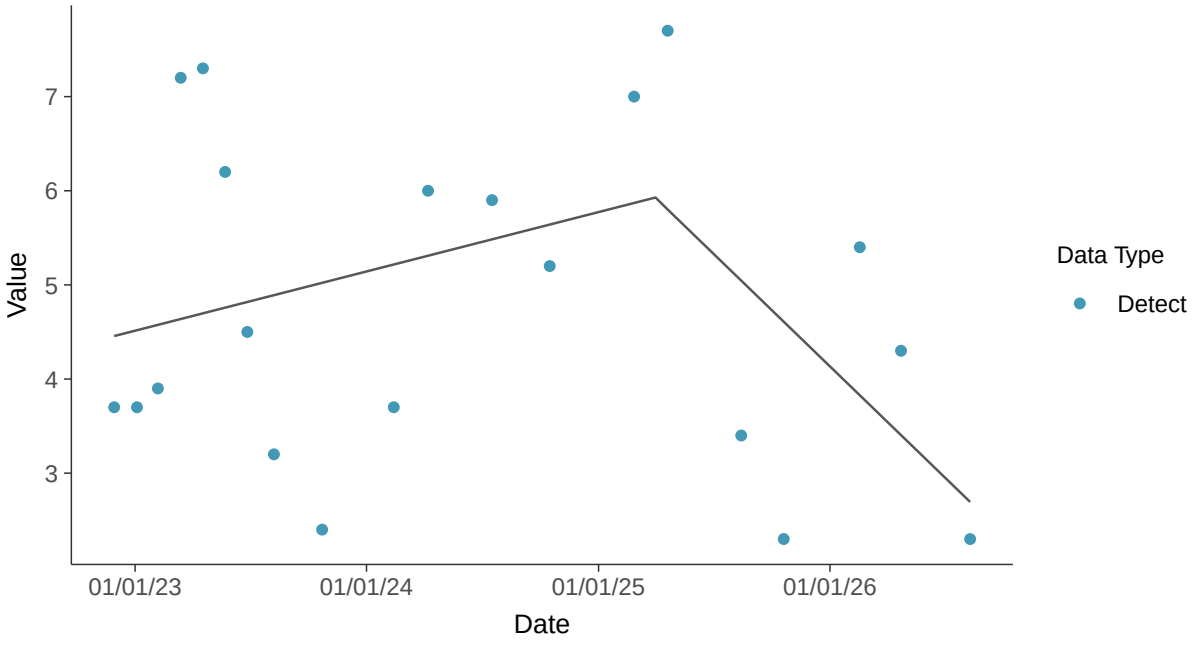
Trend Regression: Lognormal MLE

Iron, MW-10 (mg/L)



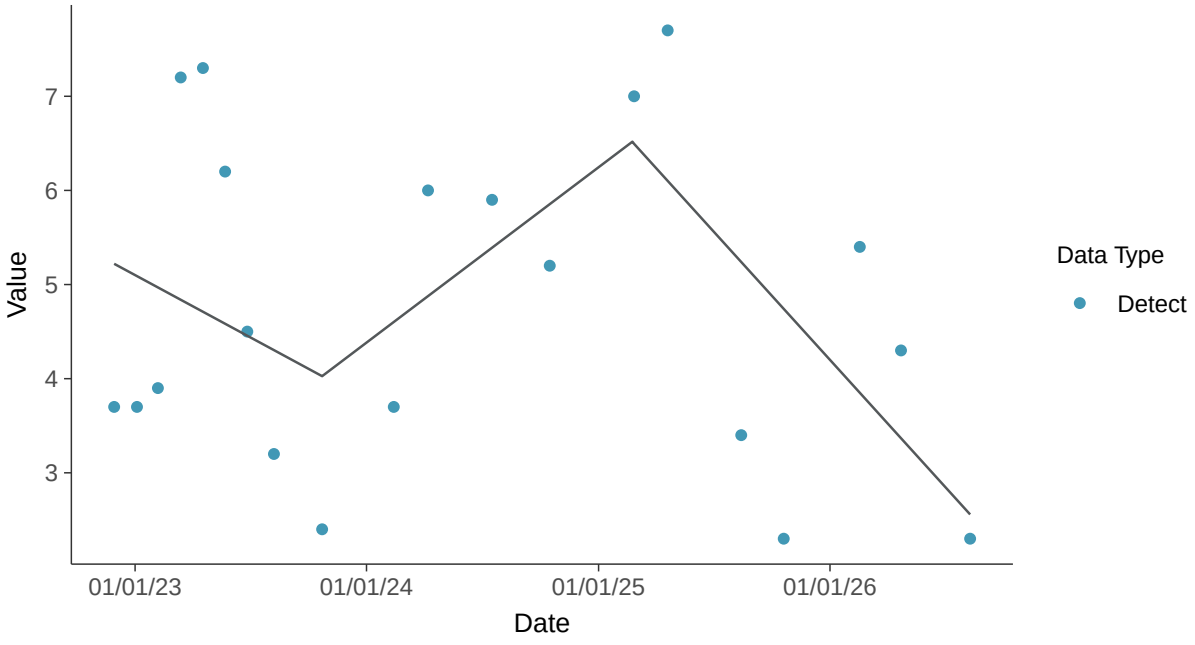
Trend Regression: Piecewise Linear-Linear

Iron, MW-10 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Iron, MW-10 (mg/L)

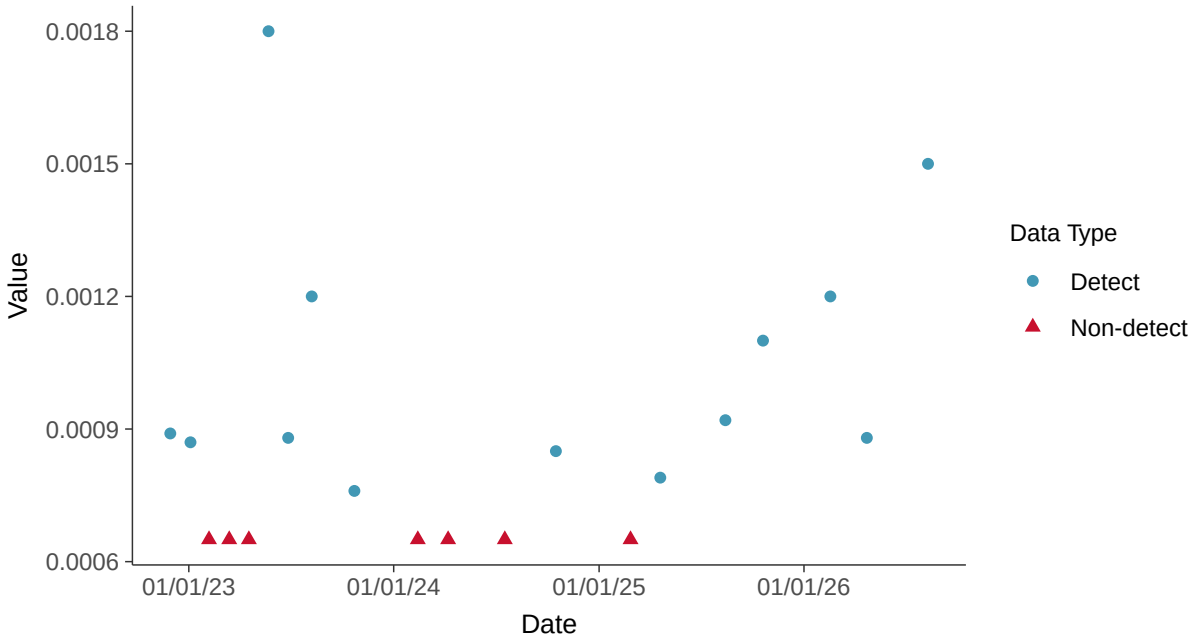


Part 115: Nickel, MW-10

ID: 20_3_5_119

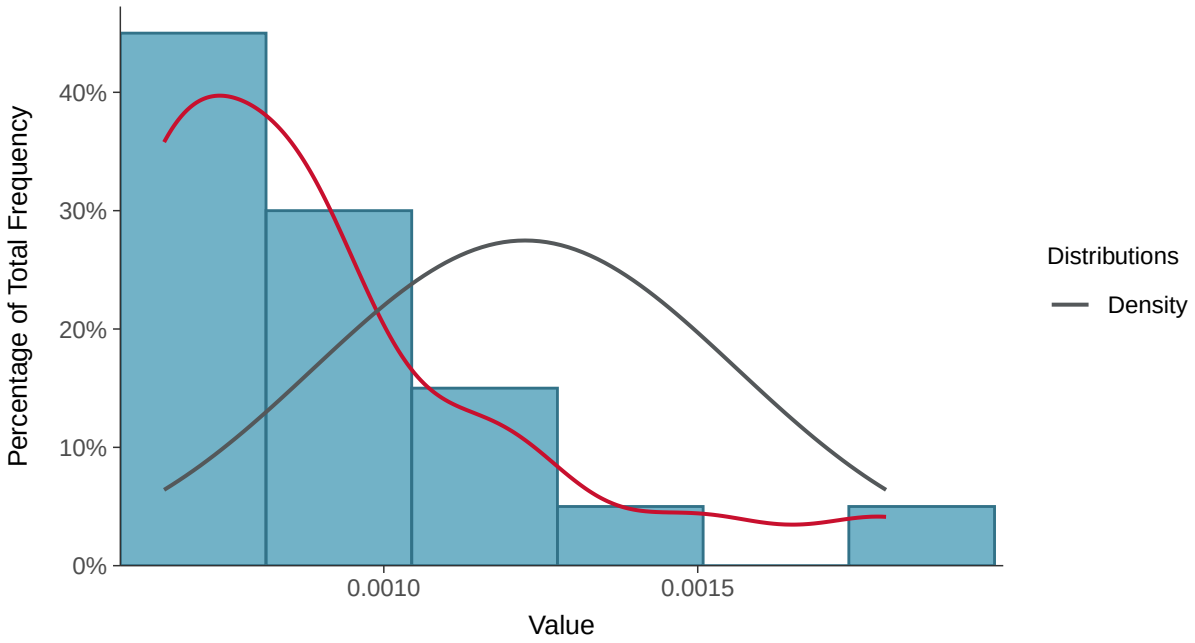
Scatter Plot

Nickel, MW-10 (mg/L)



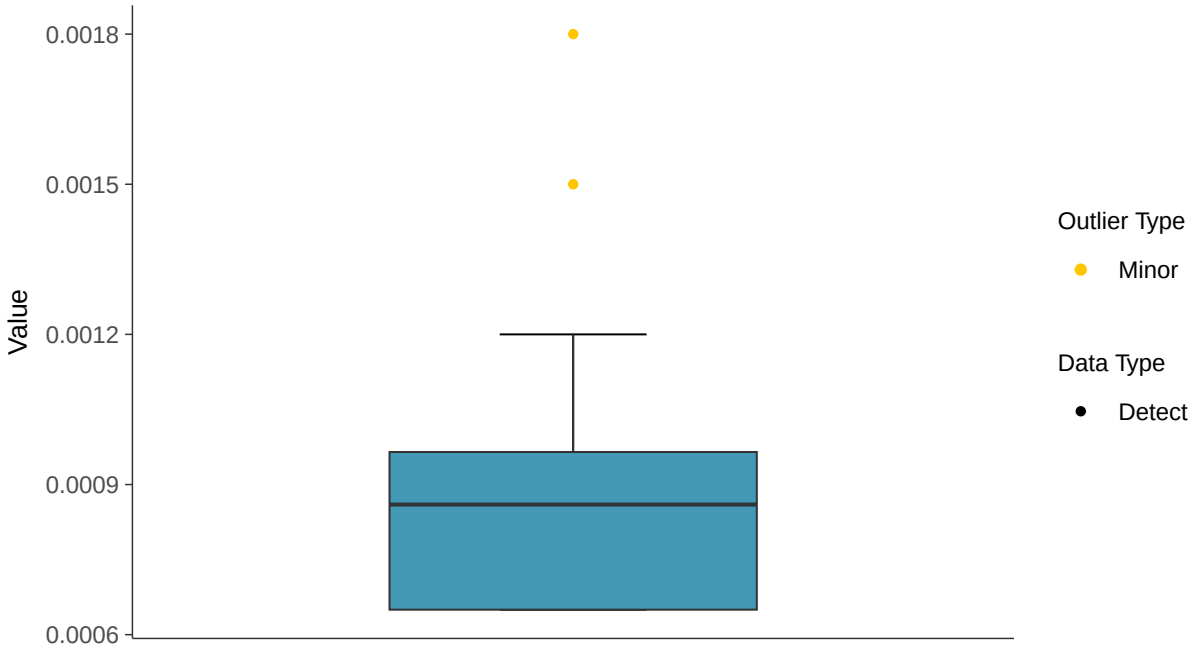
Histogram

Nickel, MW-10 (mg/L)



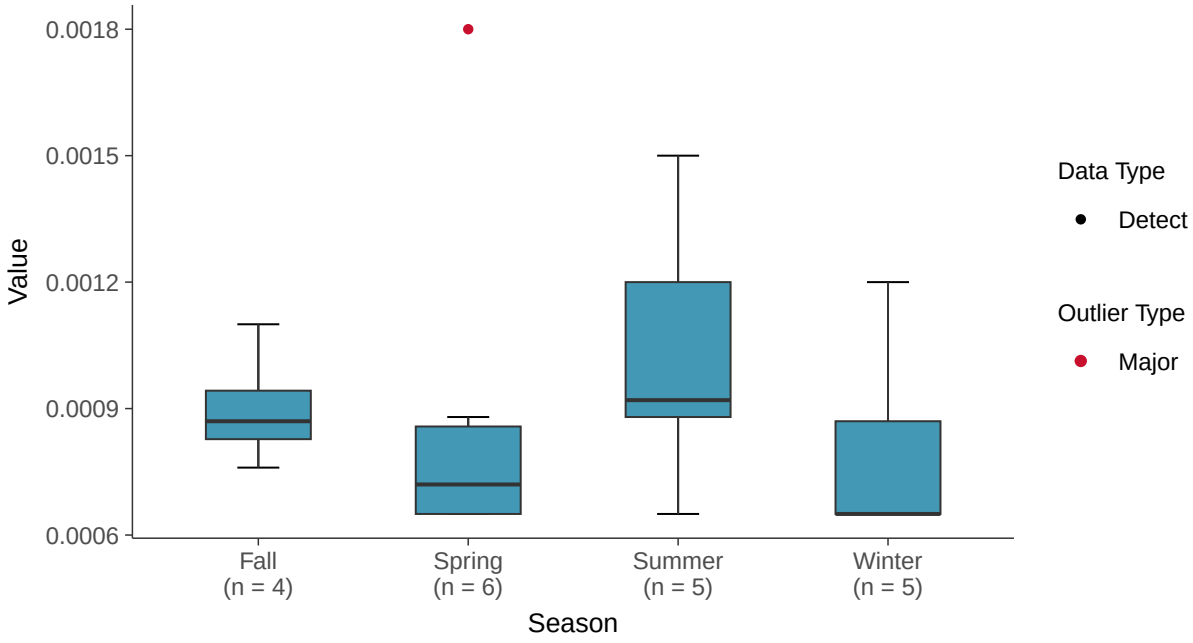
Boxplot

Nickel, MW-10 (mg/L)



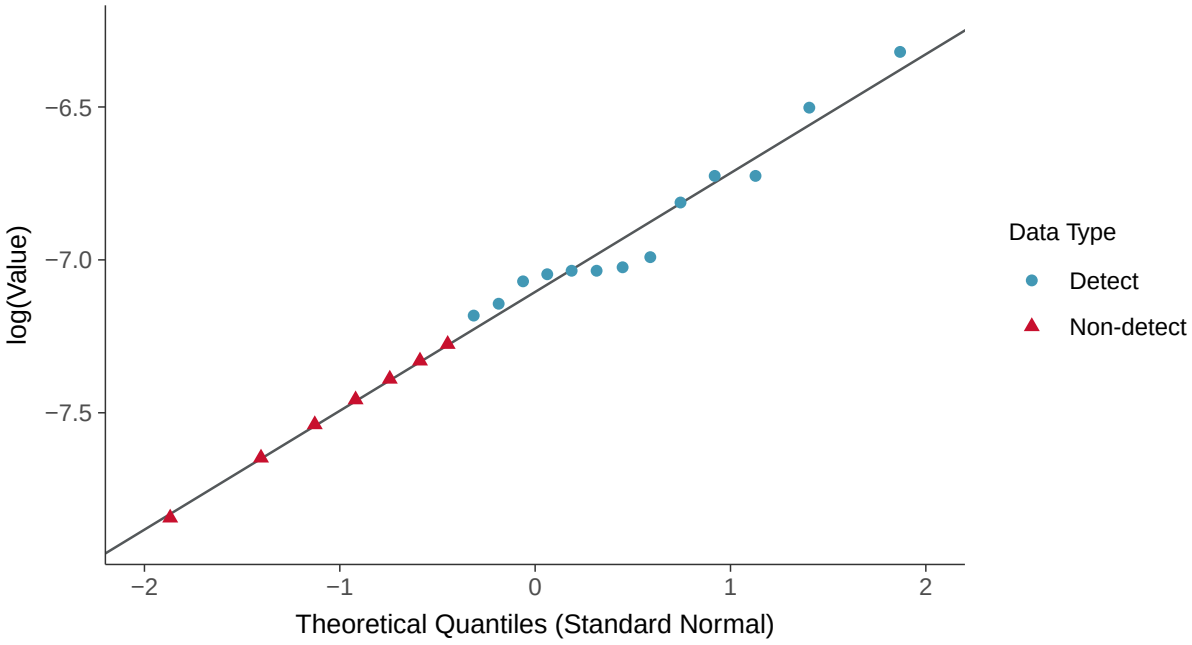
Boxplot by Season

Nickel, MW-10 (mg/L)



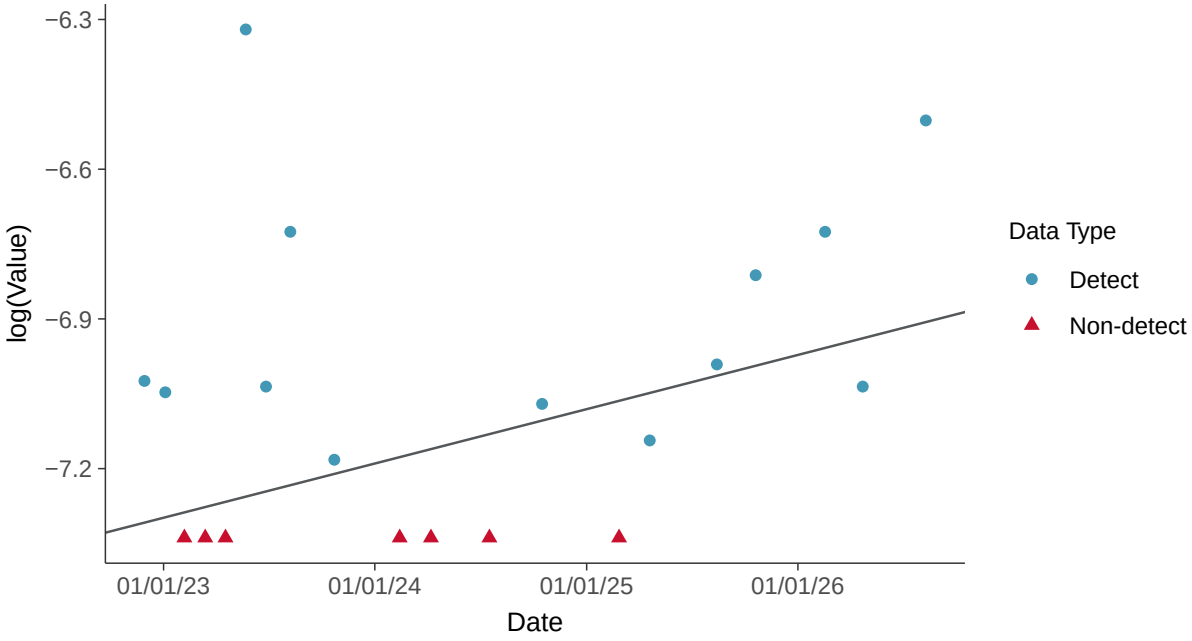
Lognormal Q-Q plot using ROS Imputed Estimates

Nickel, MW-10 (mg/L)



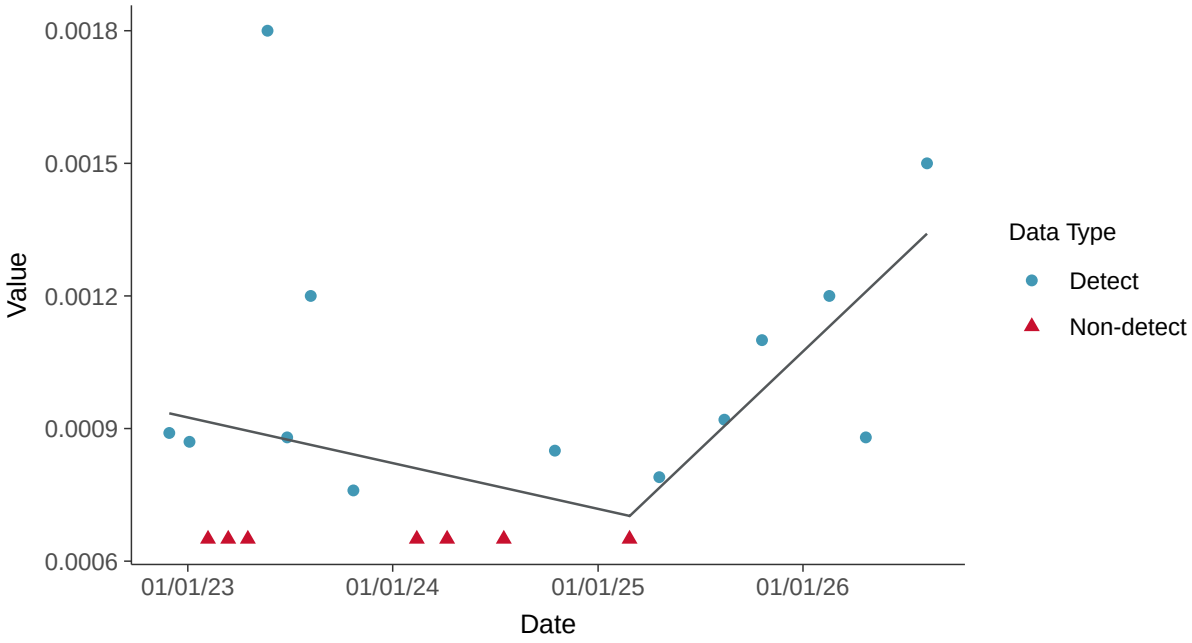
Trend Regression: Lognormal MLE

Nickel, MW-10 (mg/L)



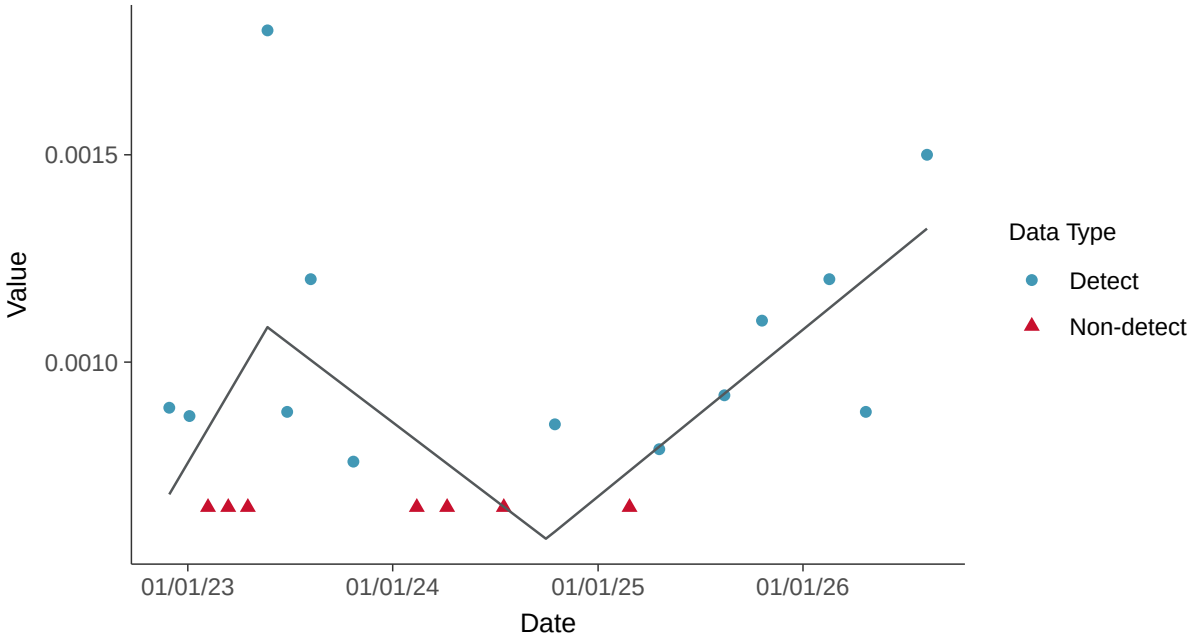
Trend Regression: Piecewise Linear-Linear

Nickel, MW-10 (mg/L)



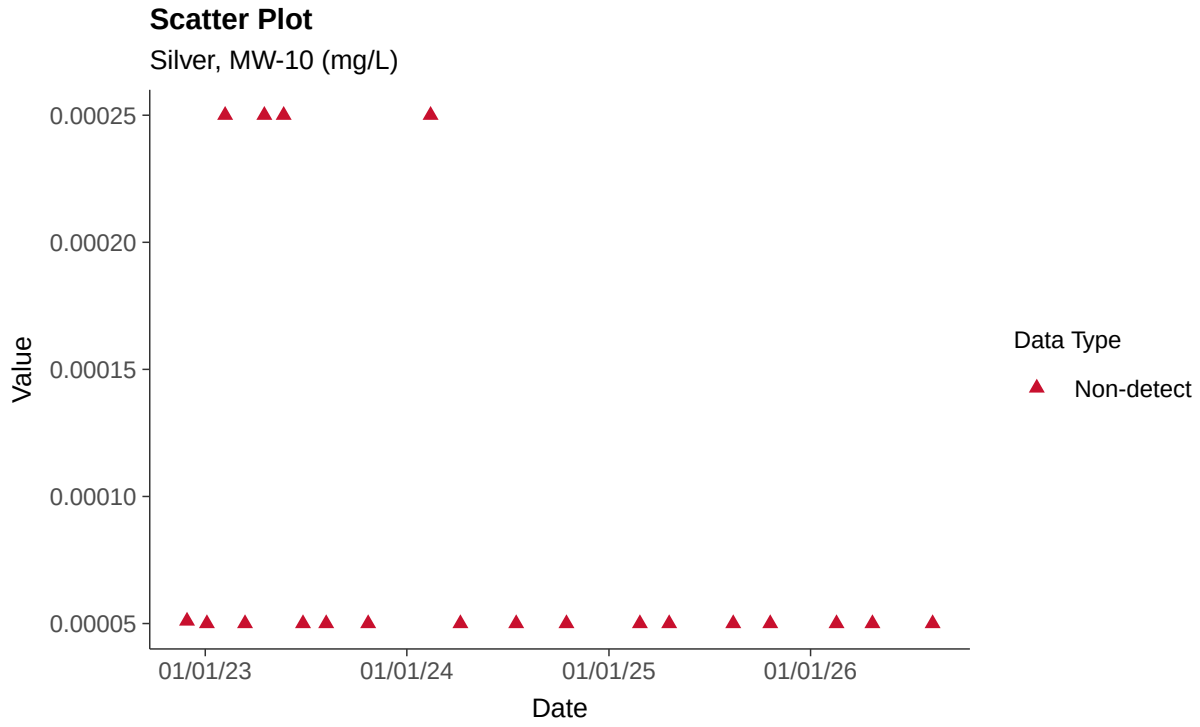
Trend Regression: Piecewise Linear-Linear-Linear

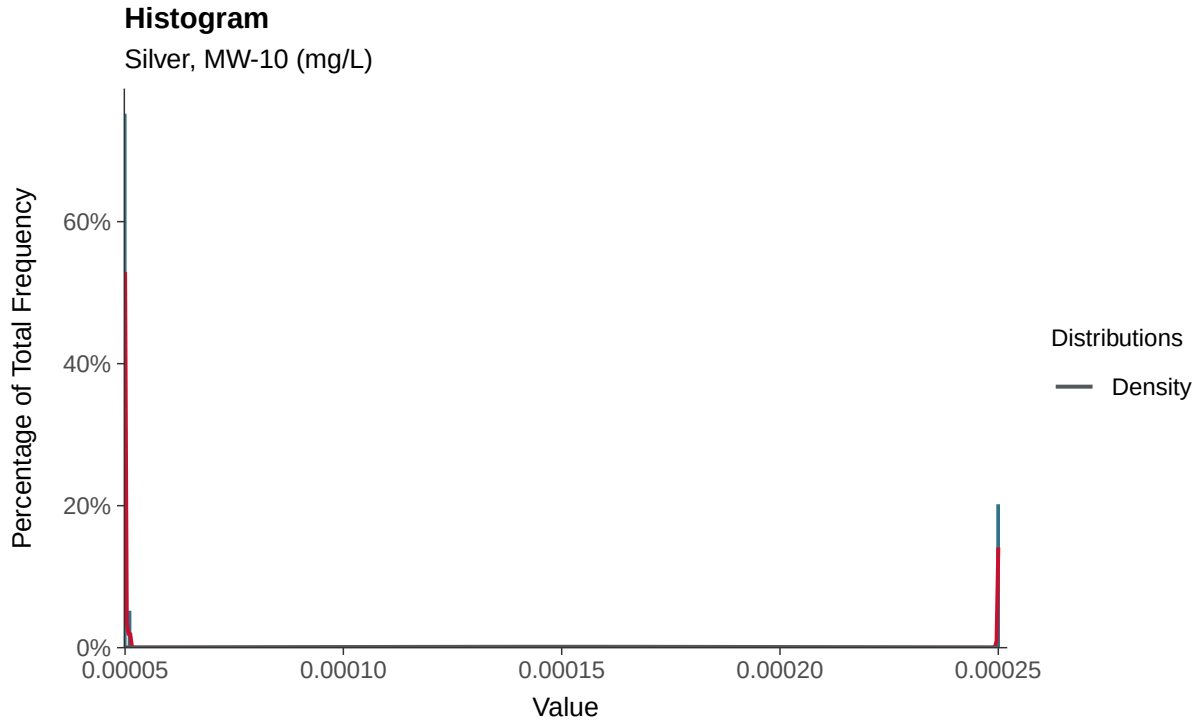
Nickel, MW-10 (mg/L)



Part 115: Silver, MW-10

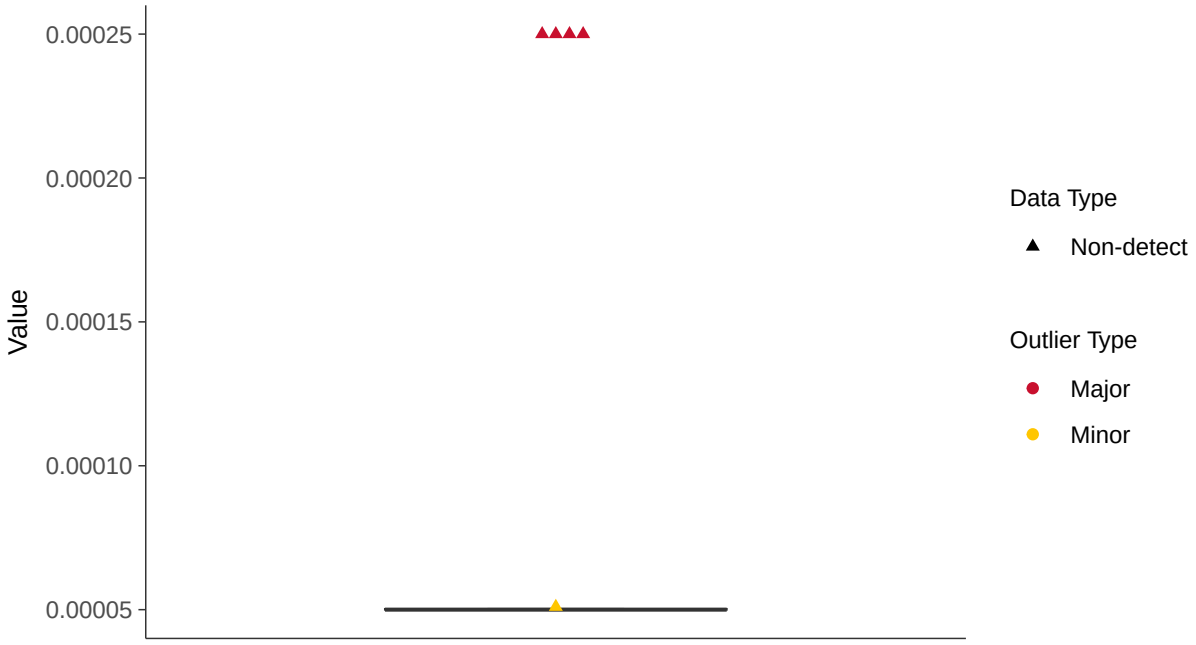
ID: 20_3_5_123





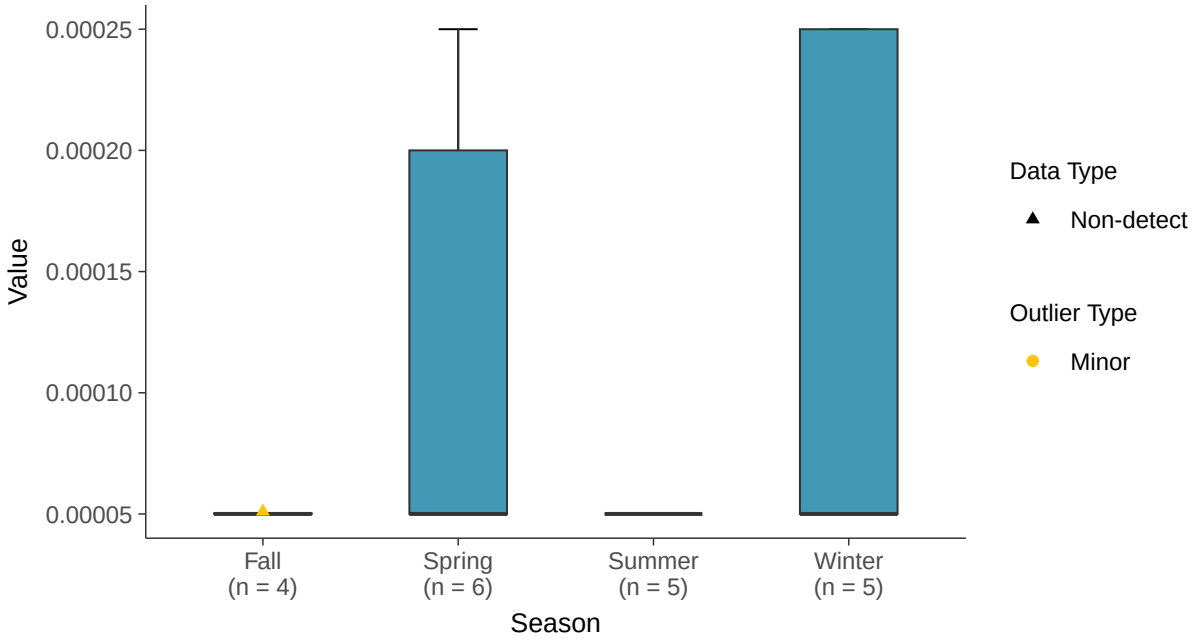
Boxplot

Silver, MW-10 (mg/L)



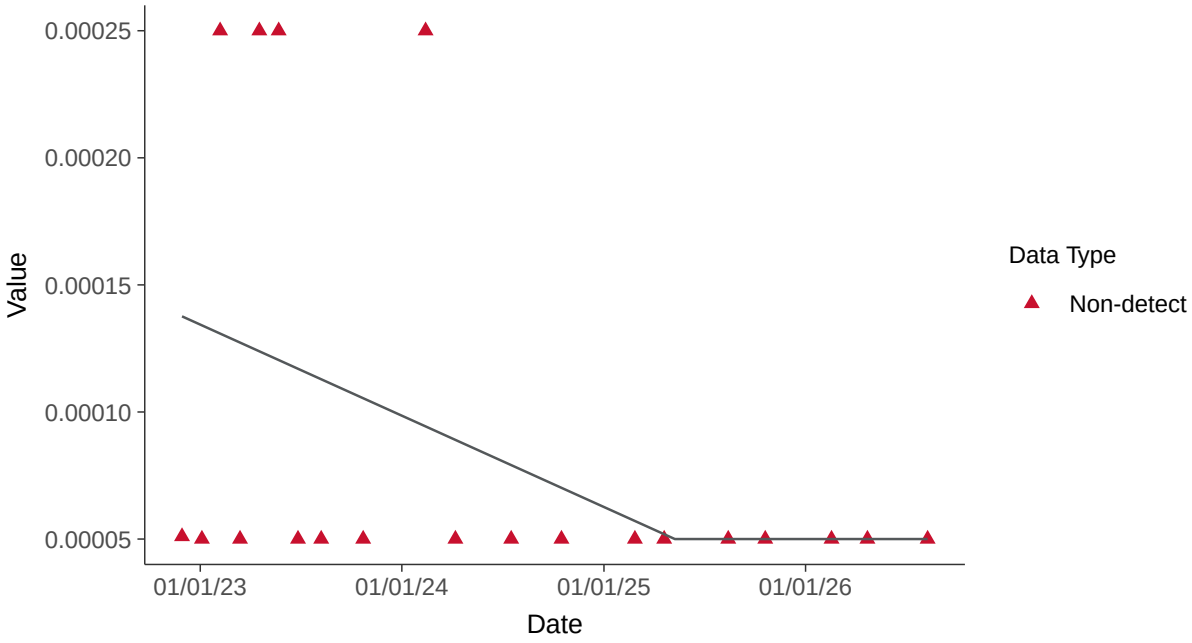
Boxplot by Season

Silver, MW-10 (mg/L)



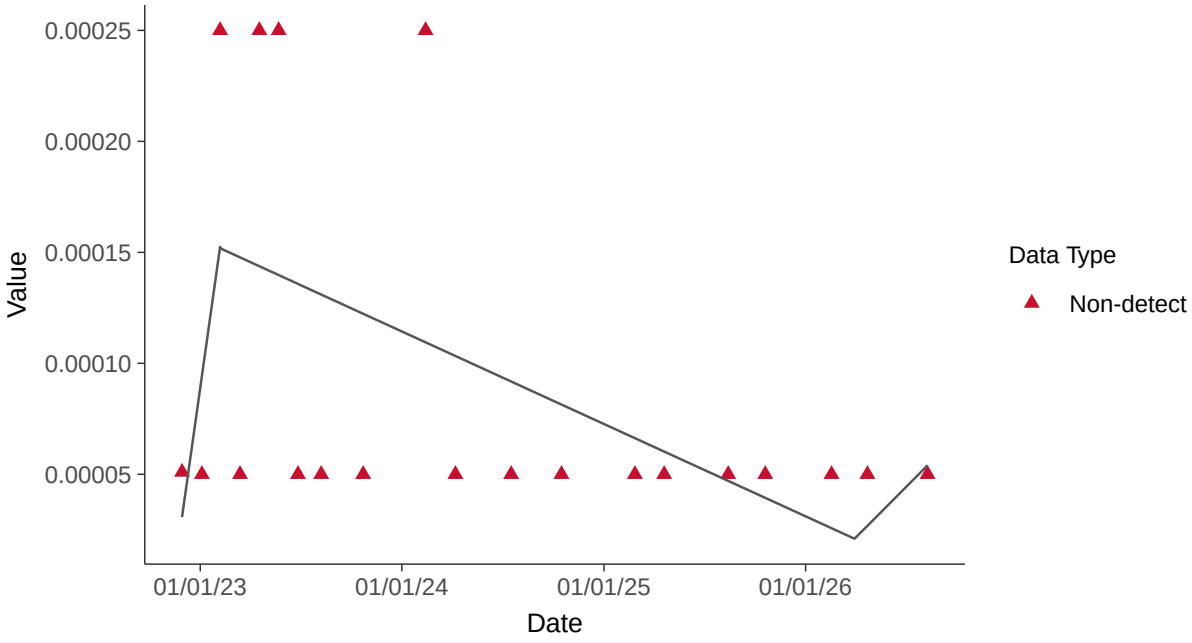
Trend Regression: Piecewise Linear-Linear

Silver, MW-10 (mg/L)



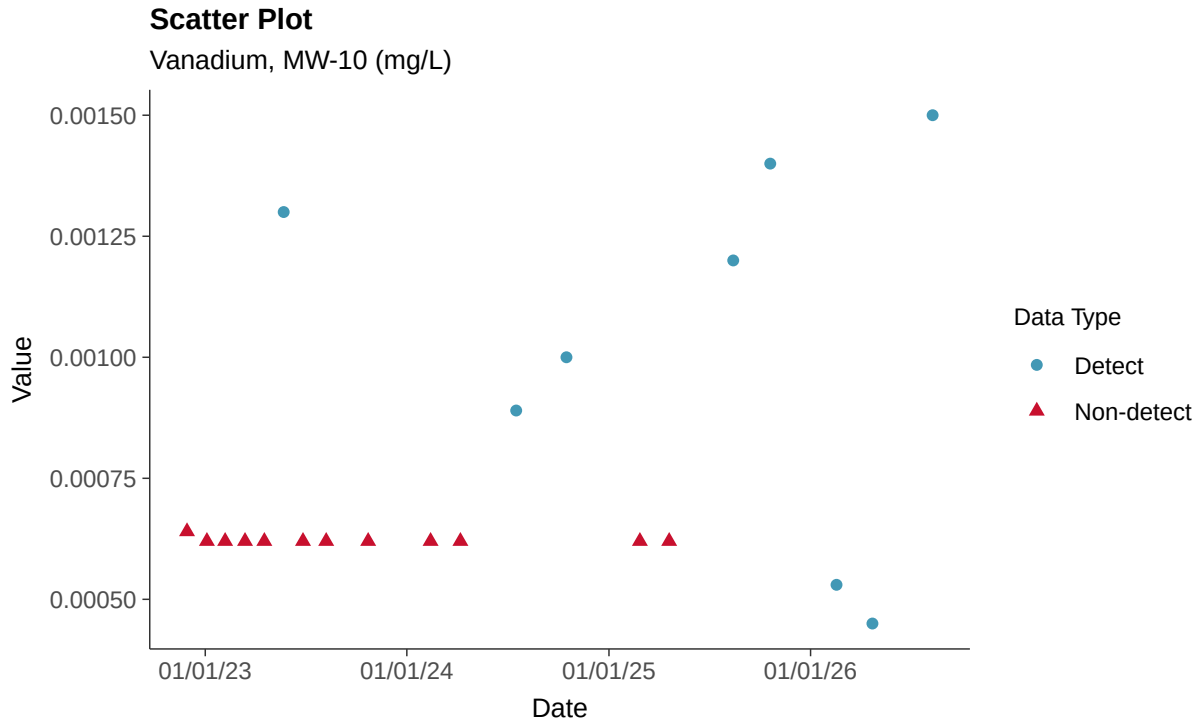
Trend Regression: Piecewise Linear-Linear-Linear

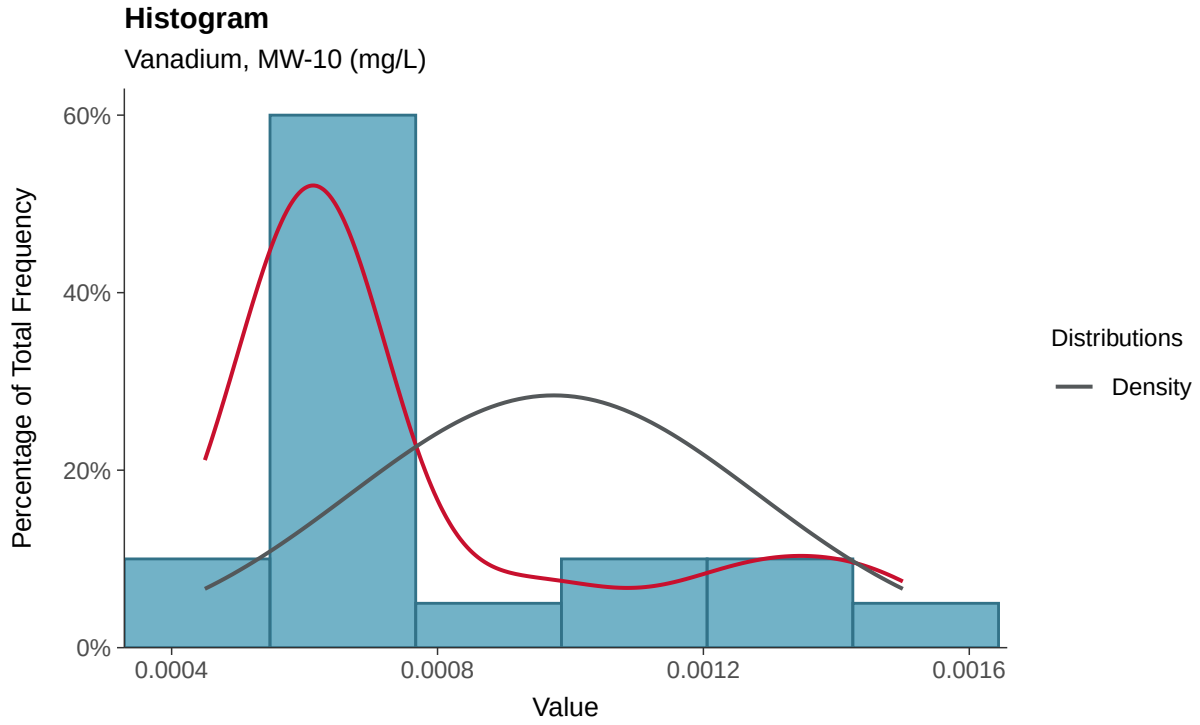
Silver, MW-10 (mg/L)



Part 115: Vanadium, MW-10

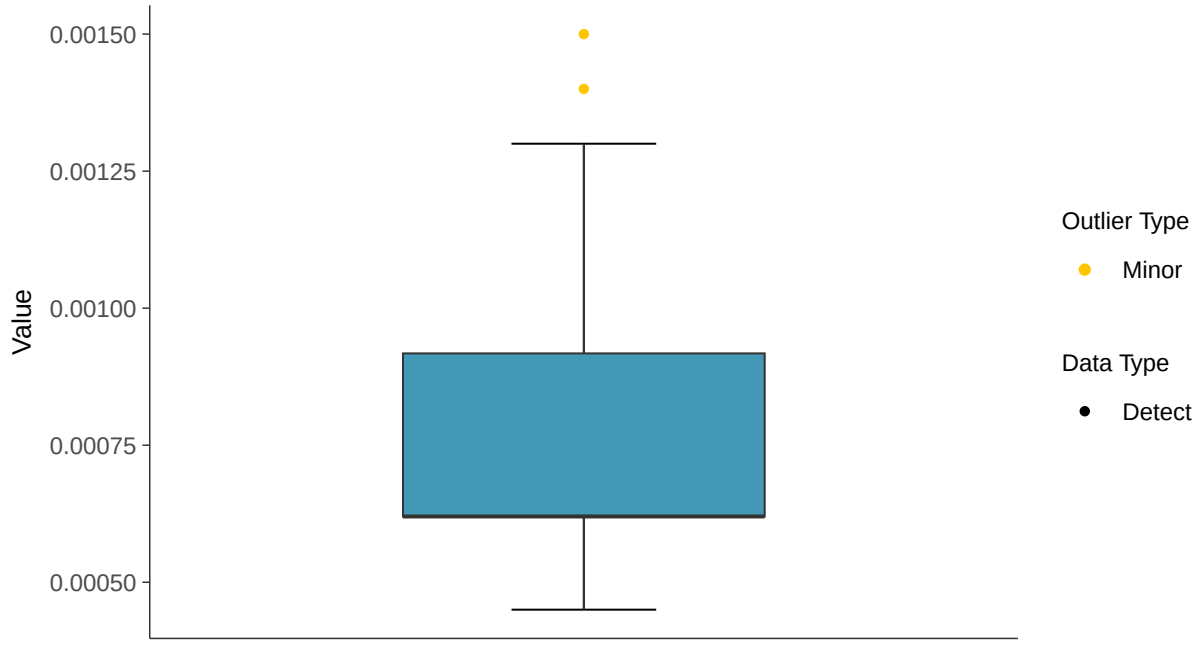
ID: 20_3_5_128





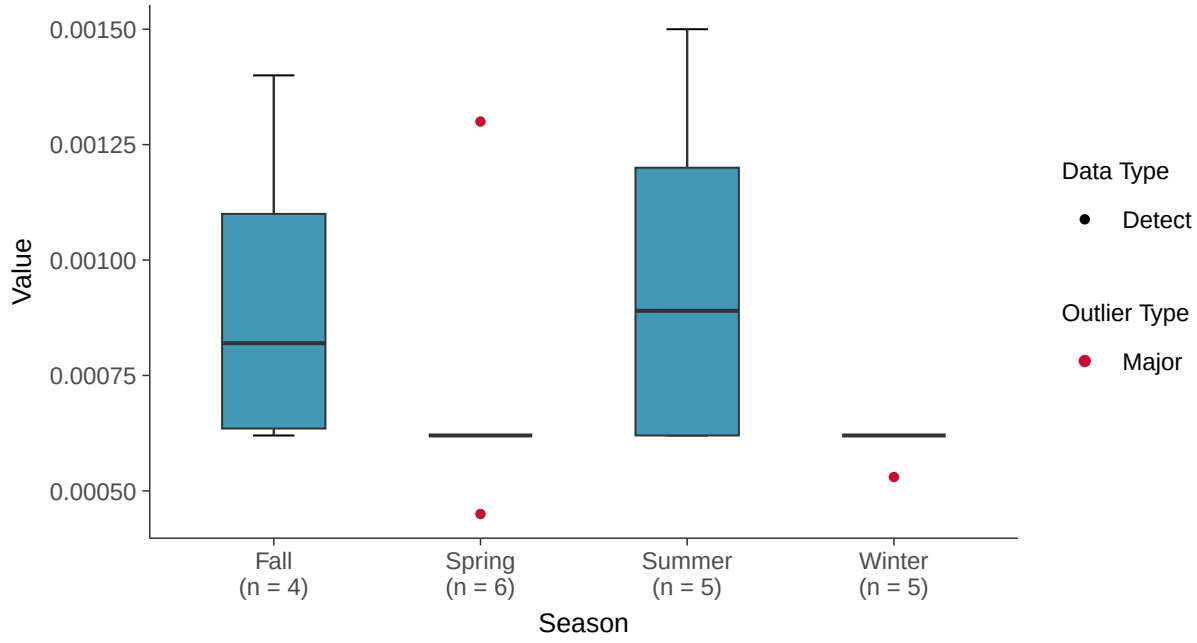
Boxplot

Vanadium, MW-10 (mg/L)



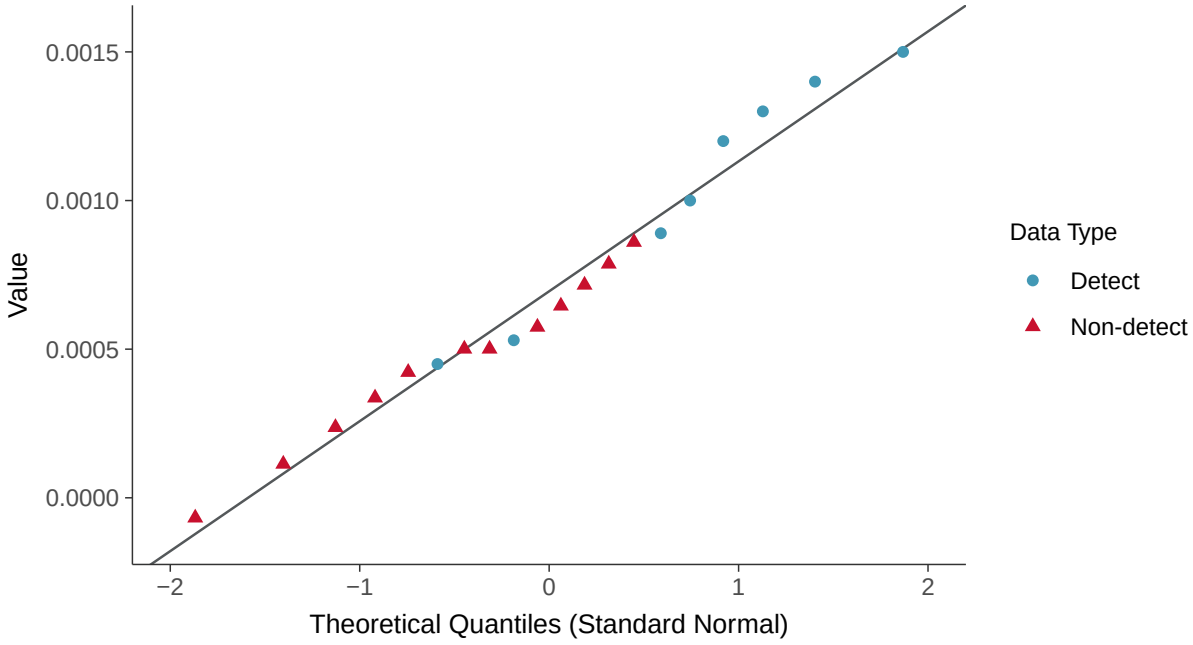
Boxplot by Season

Vanadium, MW-10 (mg/L)



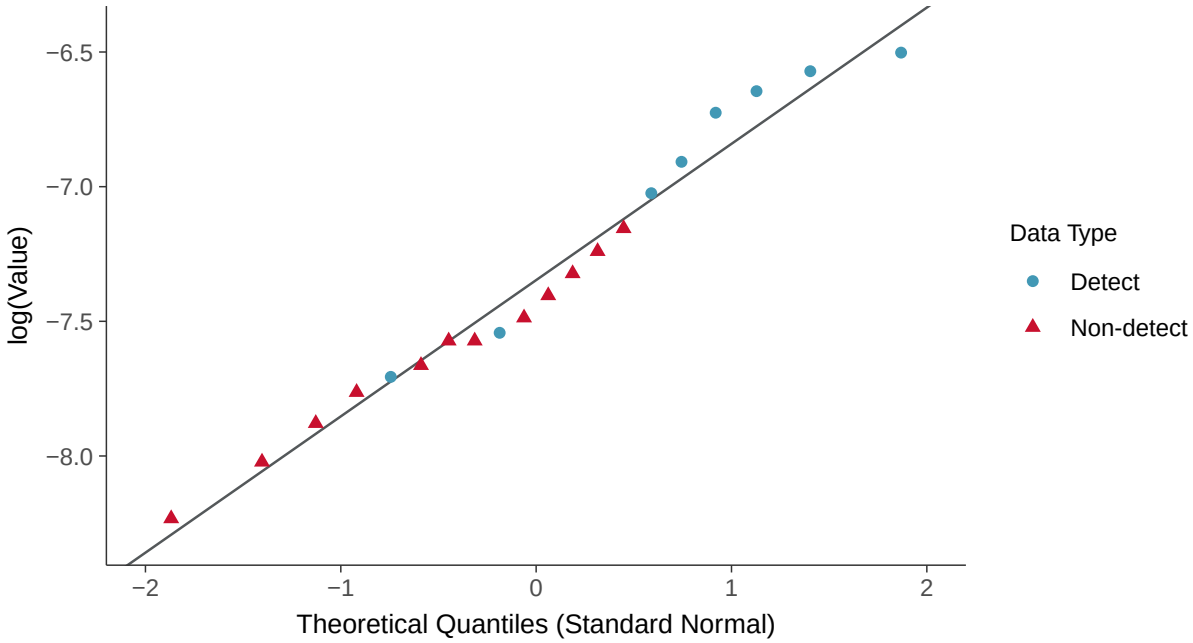
Normal Q-Q plot using ROS Imputed Estimates

Vanadium, MW-10 (mg/L)



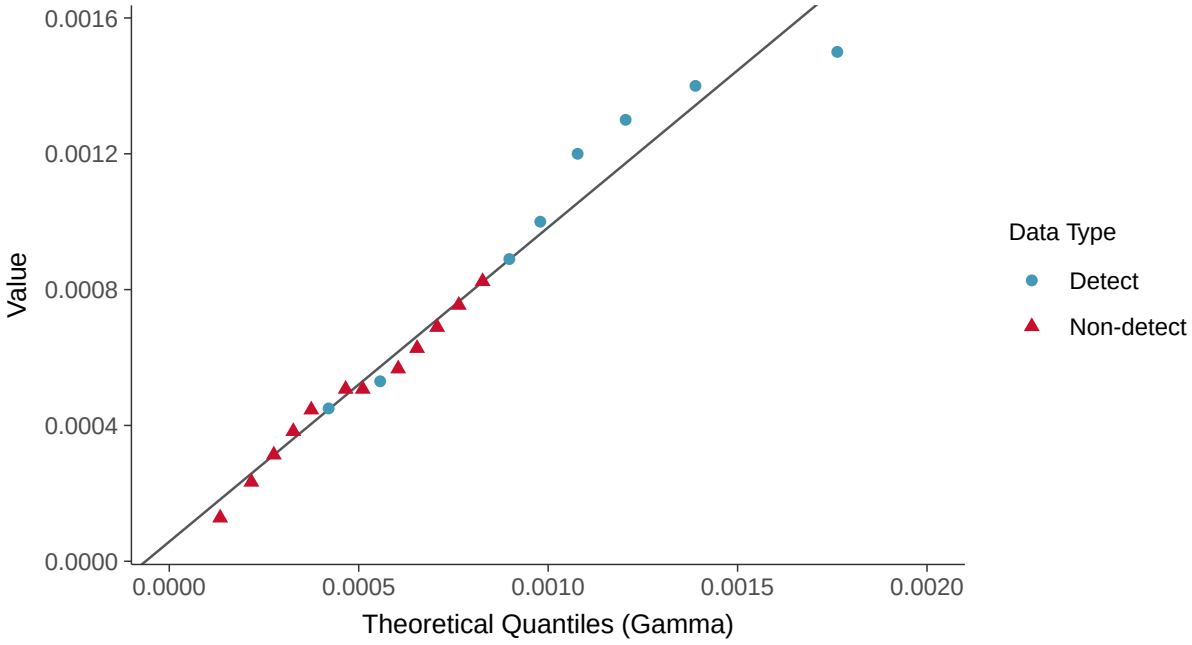
Lognormal Q-Q plot using ROS Imputed Estimates

Vanadium, MW-10 (mg/L)



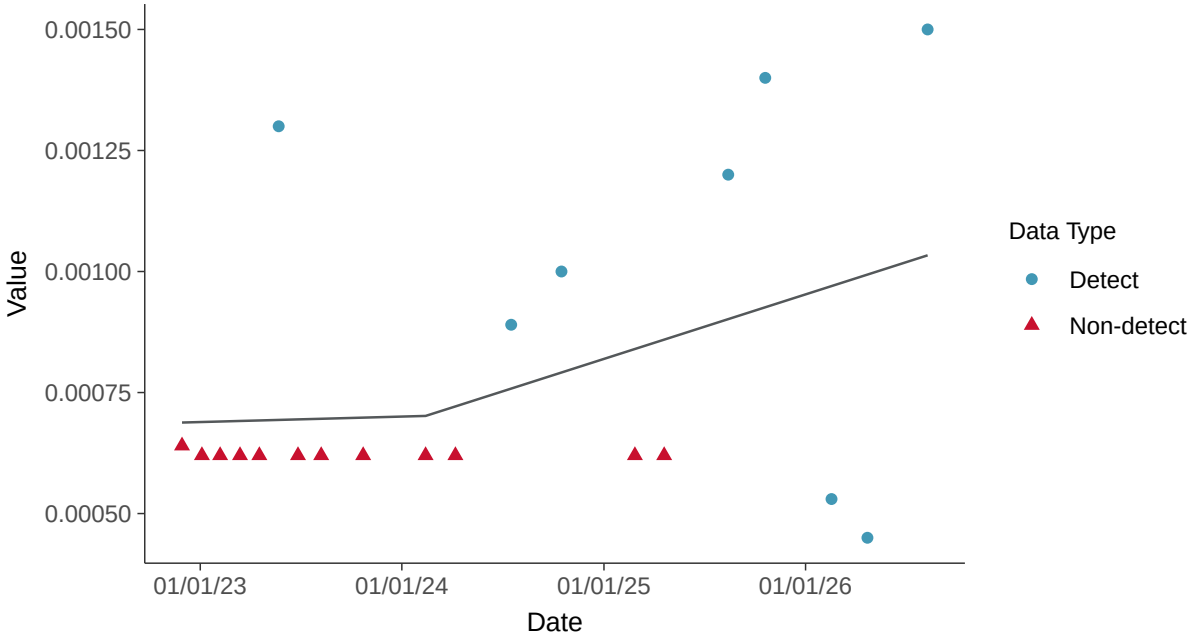
Gamma Q-Q plot using ROS Imputed Estimates

Vanadium, MW-10 (mg/L)



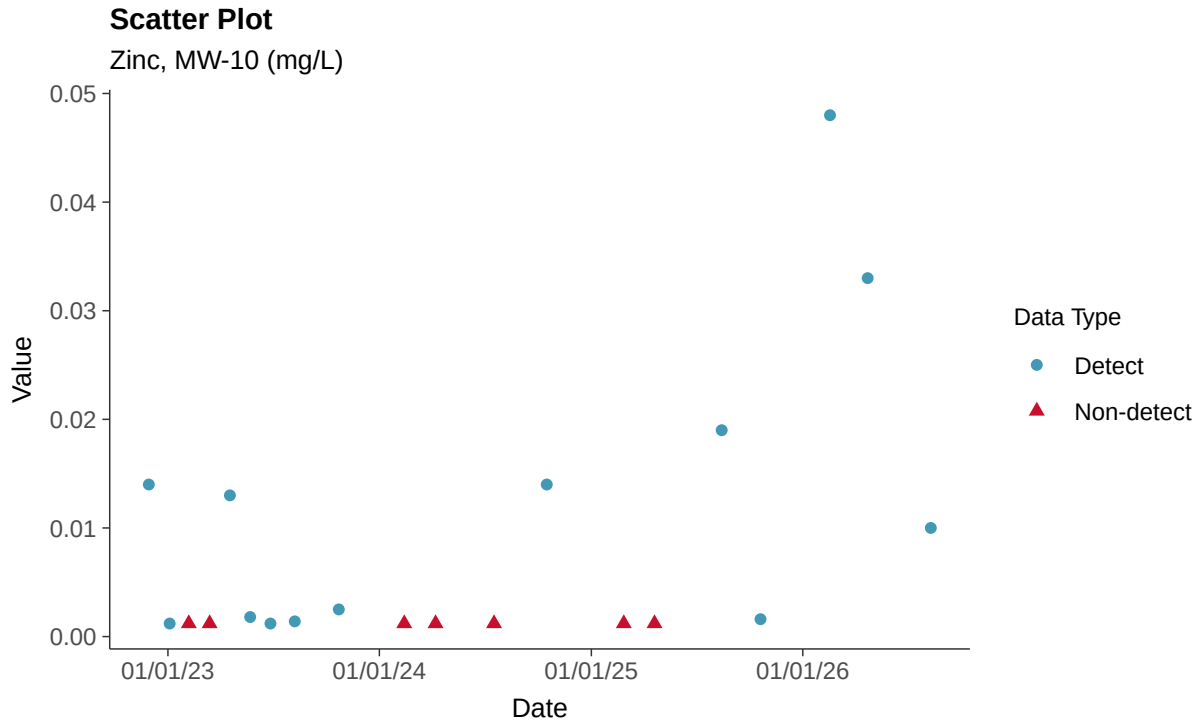
Trend Regression: Piecewise Linear-Linear

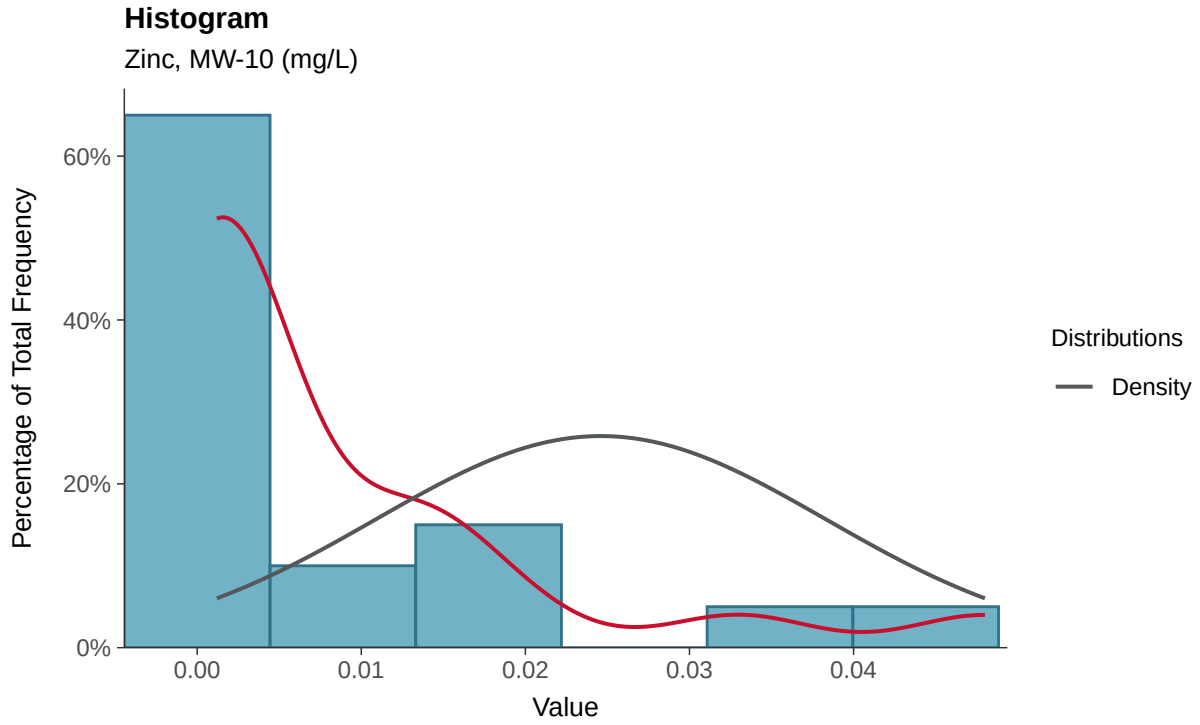
Vanadium, MW-10 (mg/L)



Part 115: Zinc, MW-10

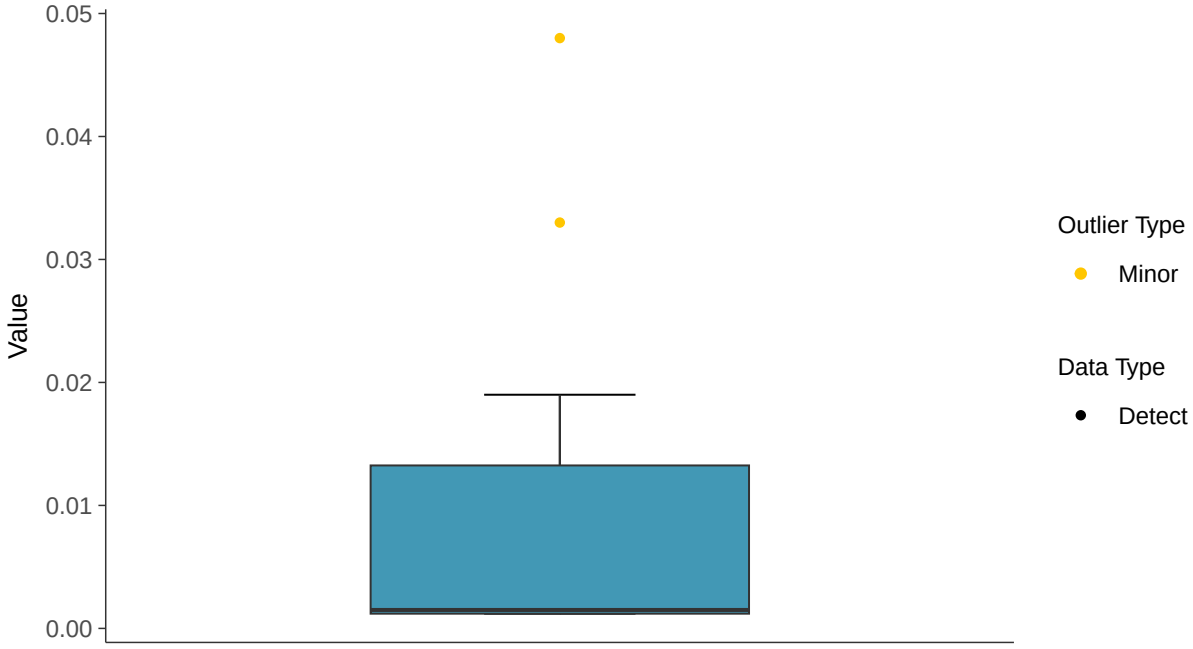
ID: 20_3_5_129





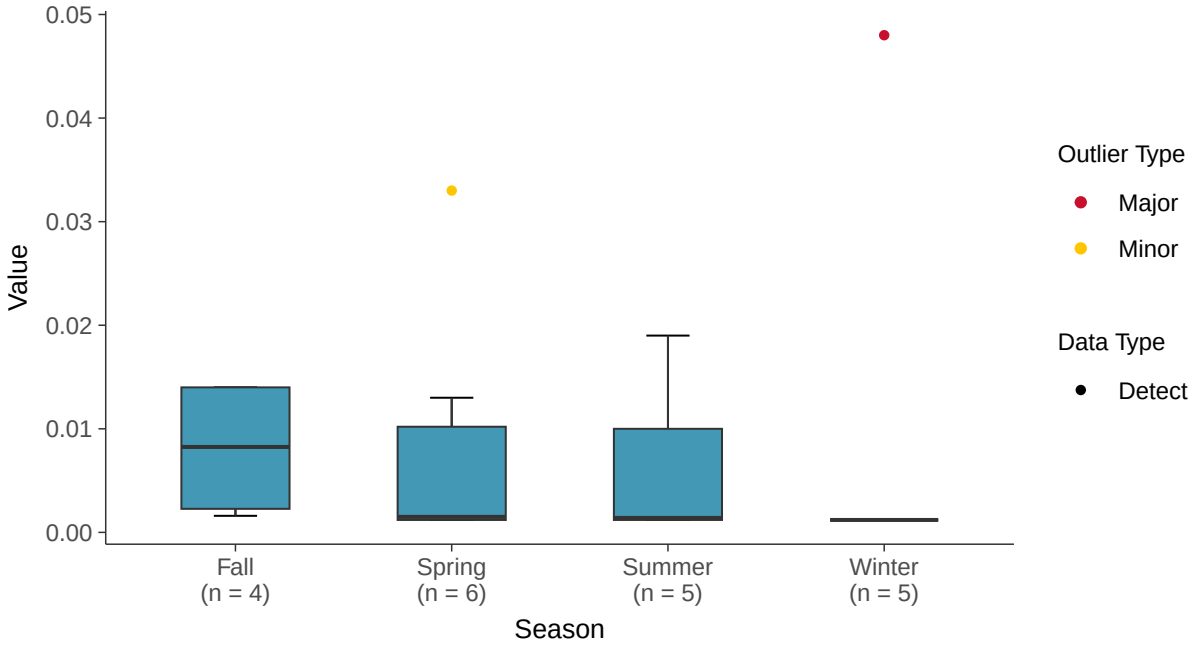
Boxplot

Zinc, MW-10 (mg/L)



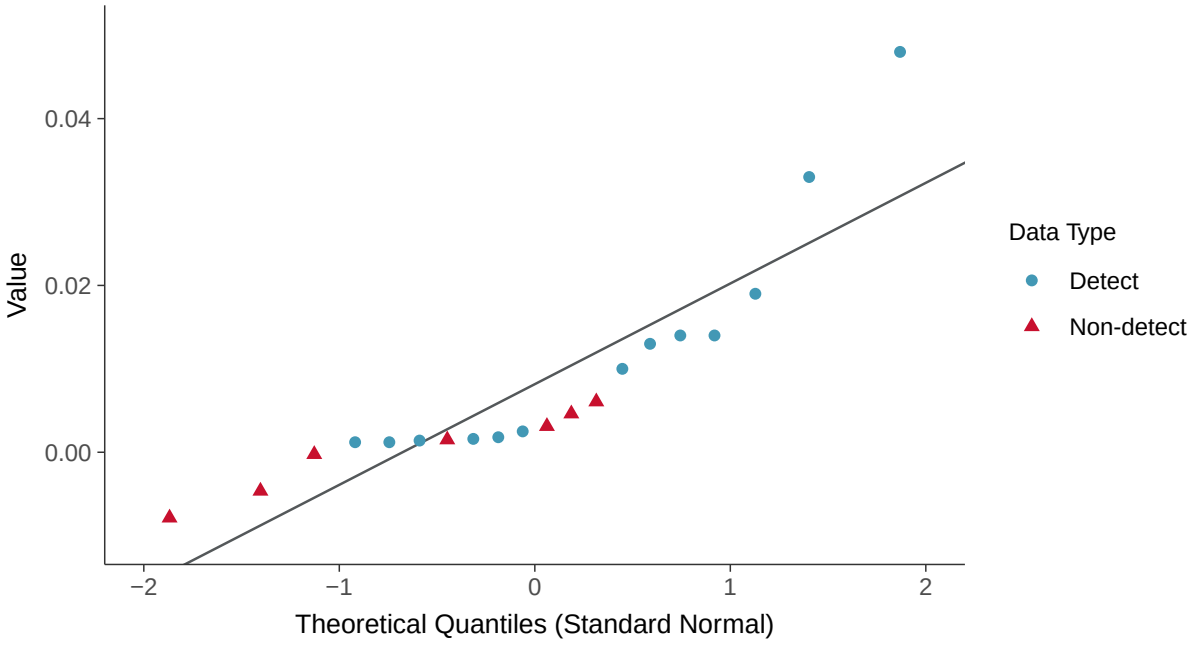
Boxplot by Season

Zinc, MW-10 (mg/L)



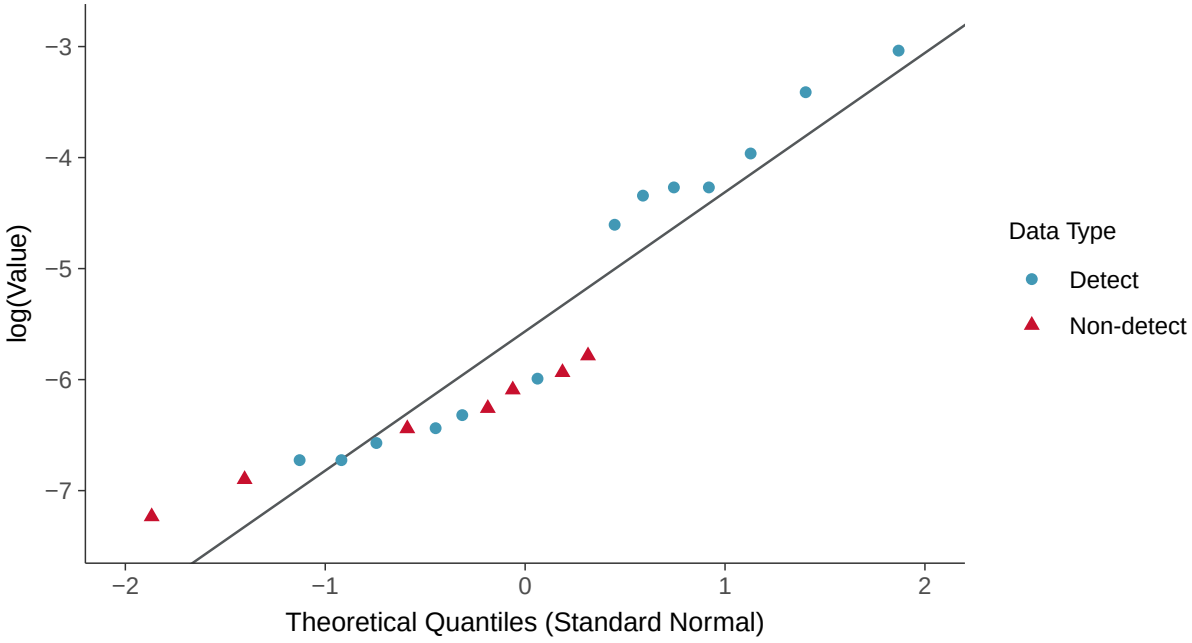
Normal Q-Q plot using ROS Imputed Estimates

Zinc, MW-10 (mg/L)



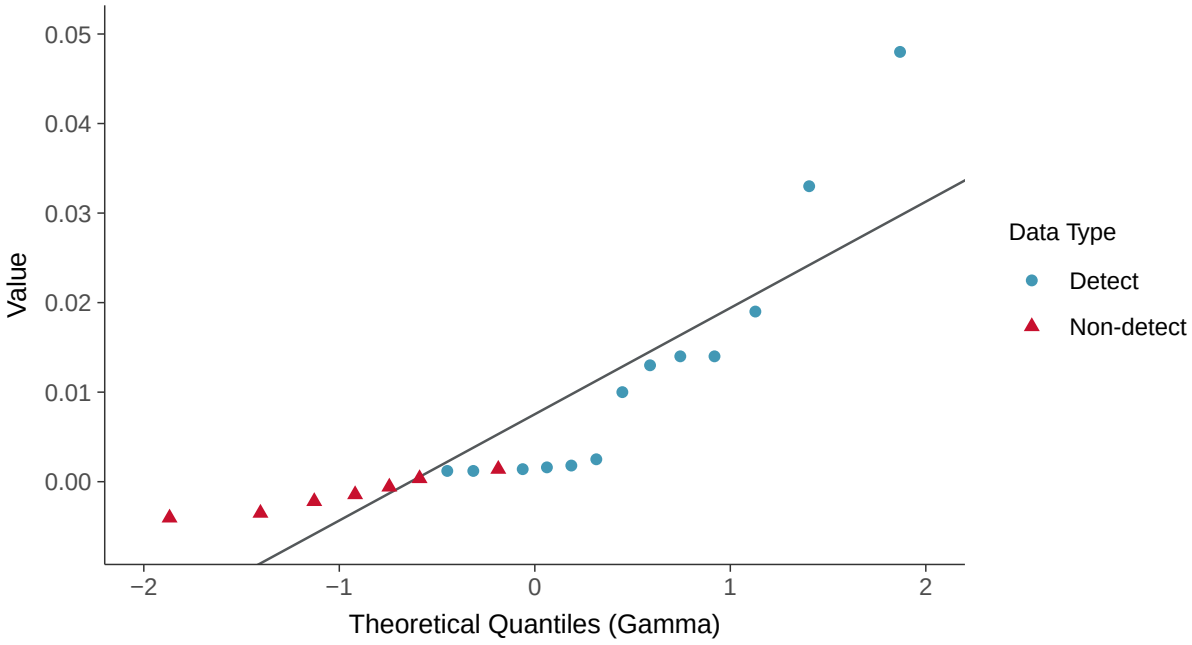
Lognormal Q-Q plot using ROS Imputed Estimates

Zinc, MW-10 (mg/L)



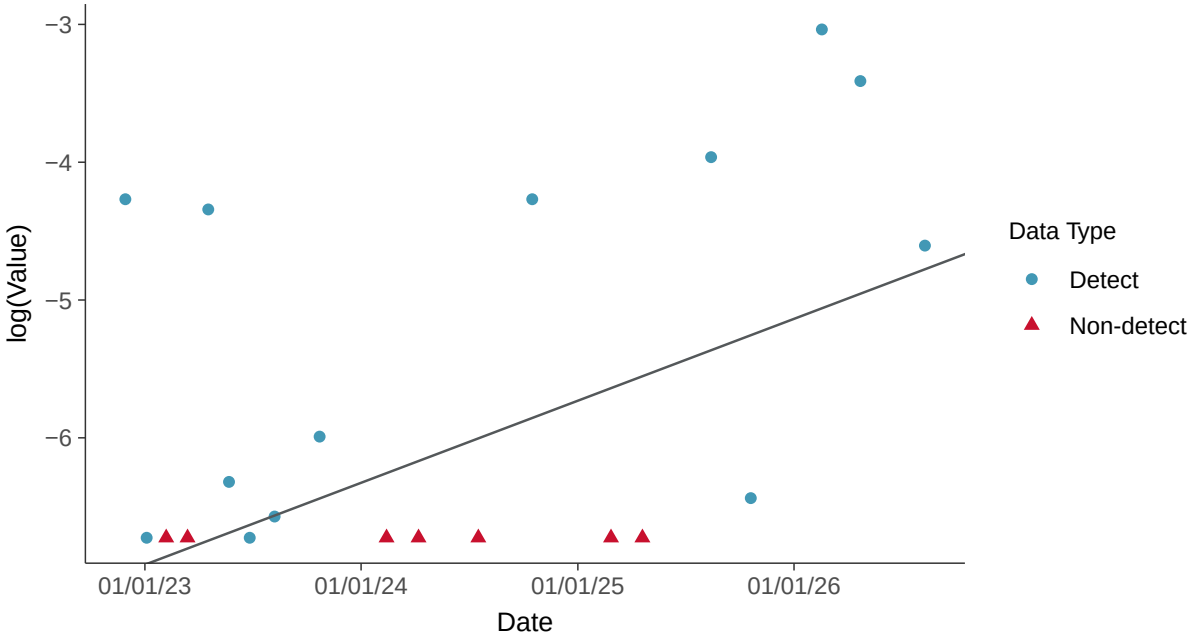
Gamma Q-Q plot using ROS Imputed Estimates

Zinc, MW-10 (mg/L)



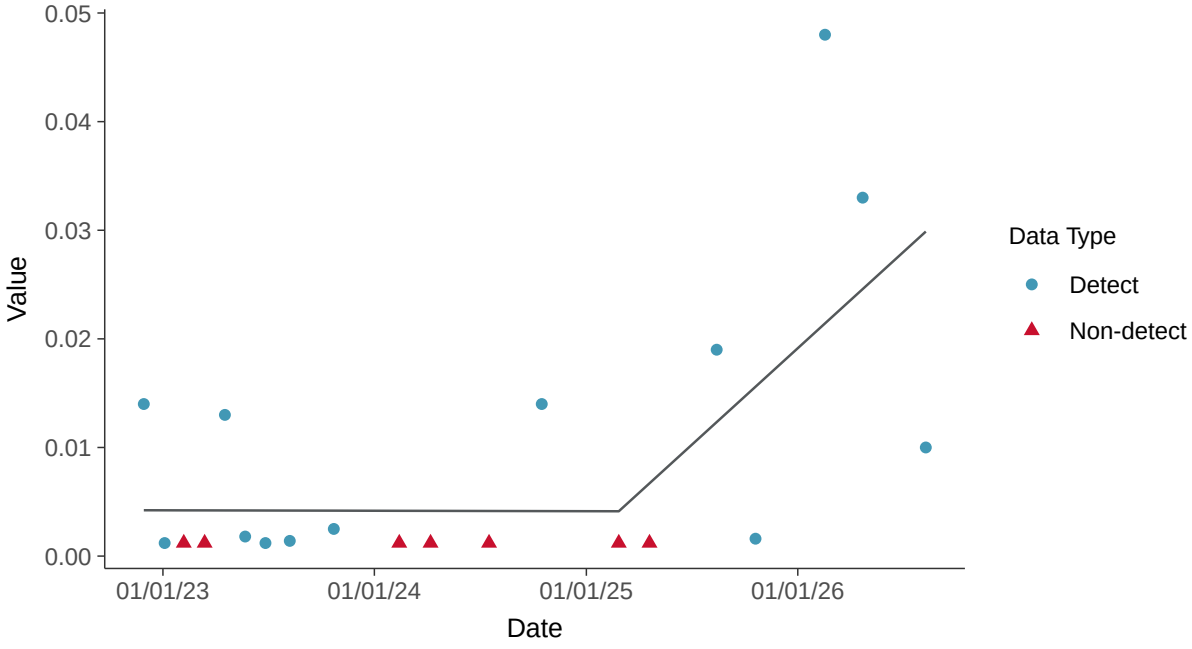
Trend Regression: Lognormal MLE

Zinc, MW-10 (mg/L)



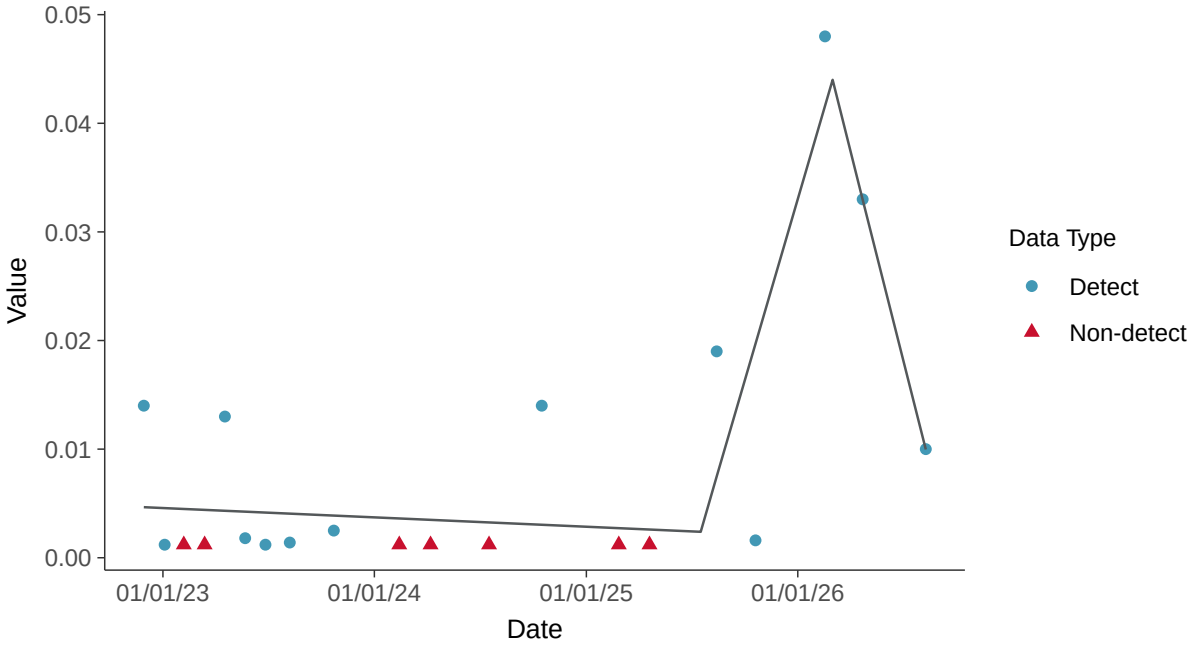
Trend Regression: Piecewise Linear-Linear

Zinc, MW-10 (mg/L)



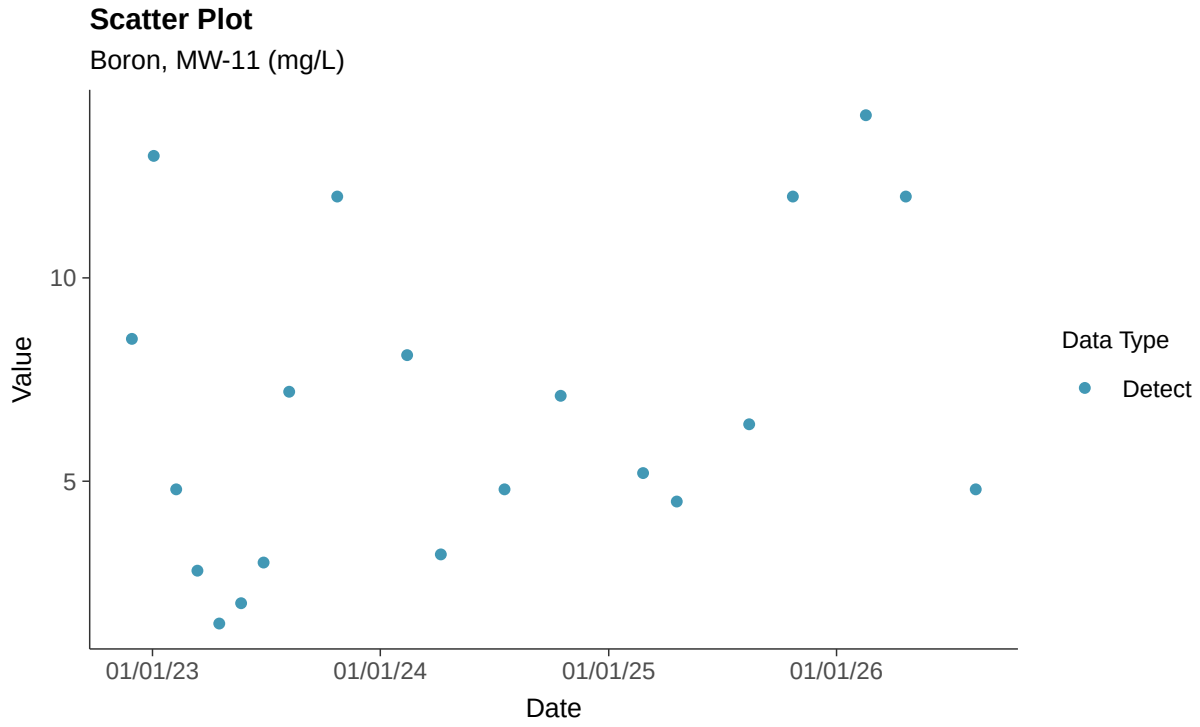
Trend Regression: Piecewise Linear-Linear-Linear

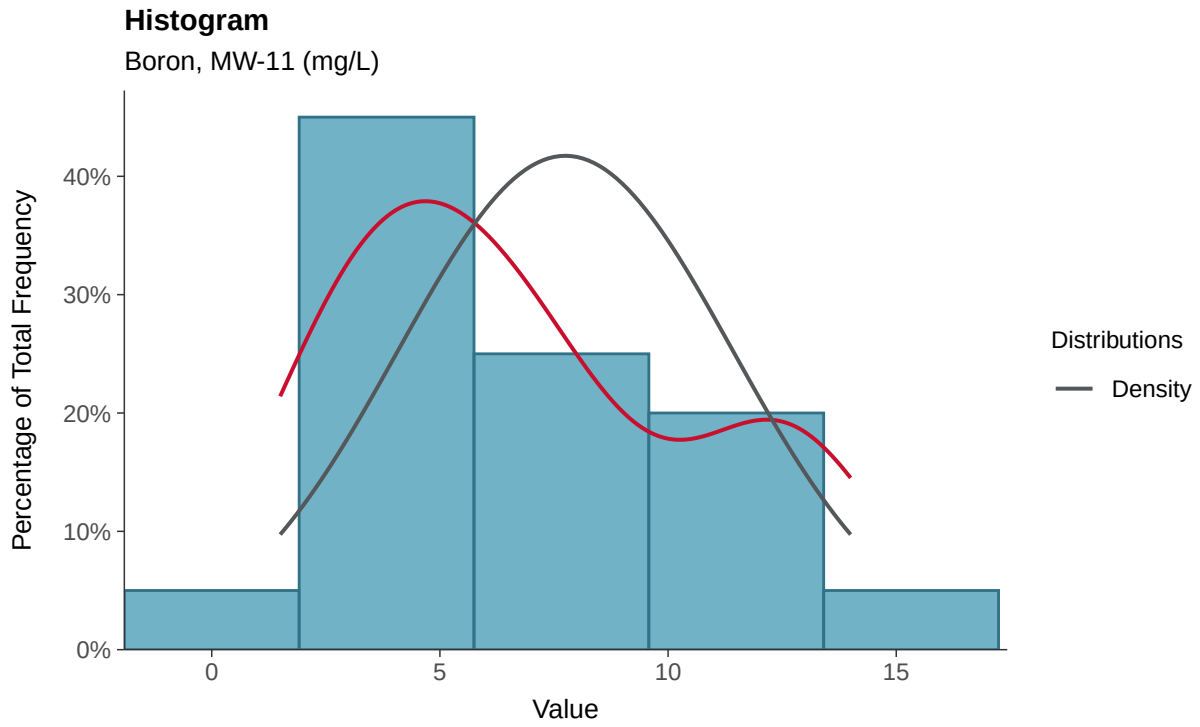
Zinc, MW-10 (mg/L)



Appendix III: Boron, MW-11

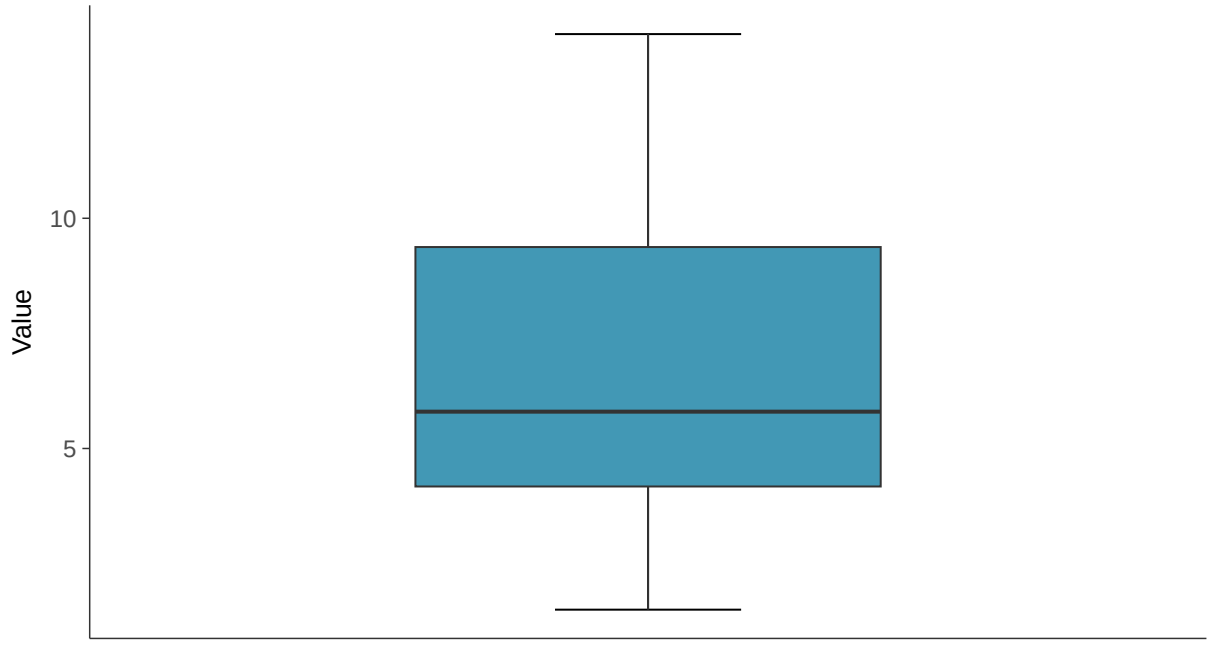
ID: 21_2_3_105





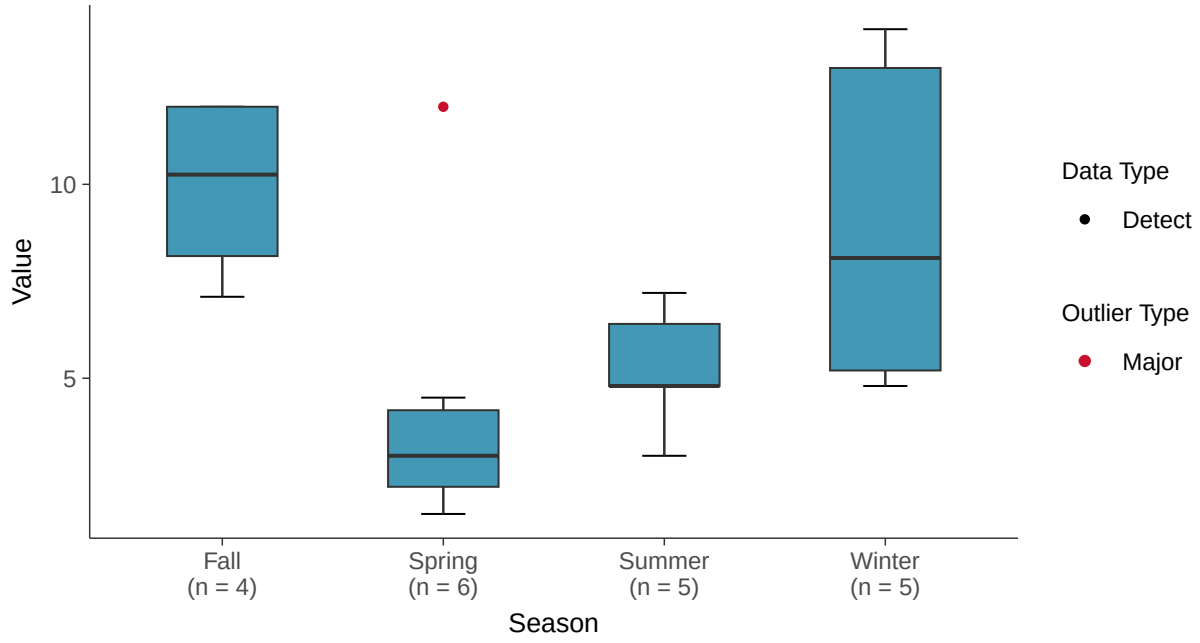
Boxplot

Boron, MW-11 (mg/L)



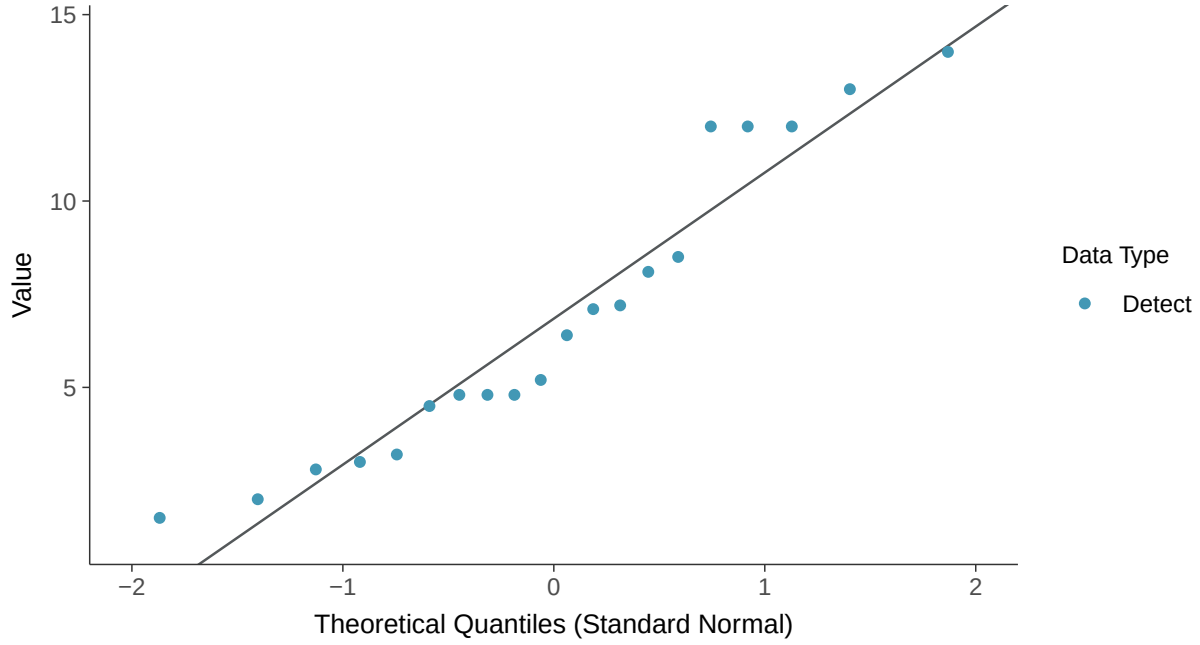
Boxplot by Season

Boron, MW-11 (mg/L)



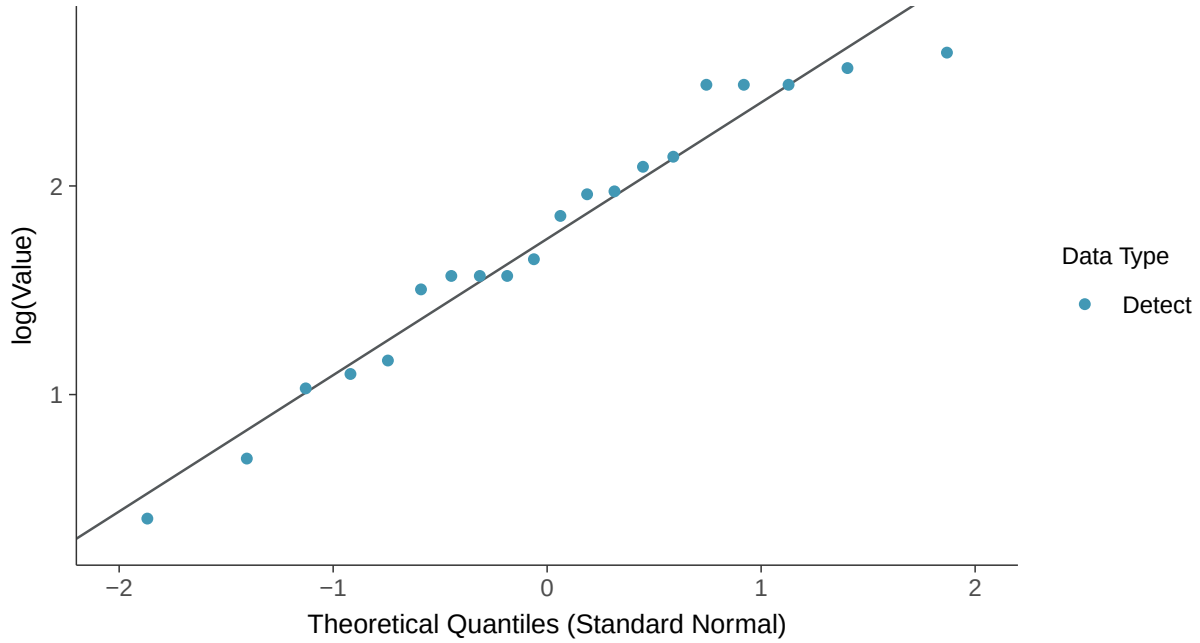
Normal Q-Q plot

Boron, MW-11 (mg/L)



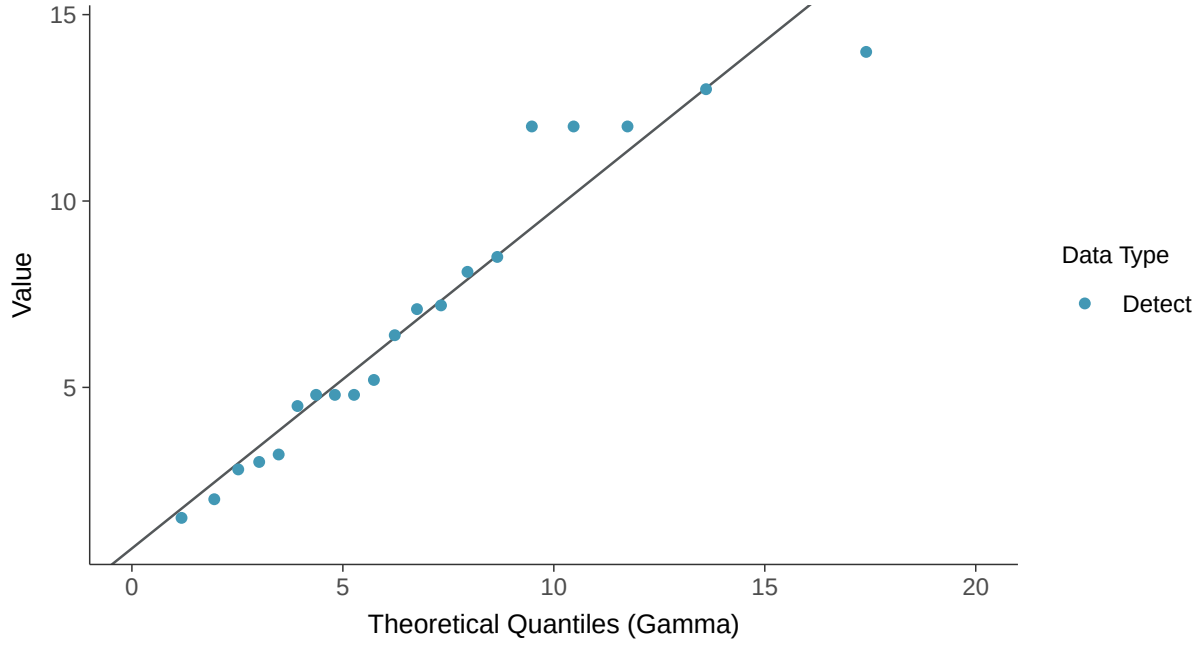
Lognormal Q-Q plot

Boron, MW-11 (mg/L)



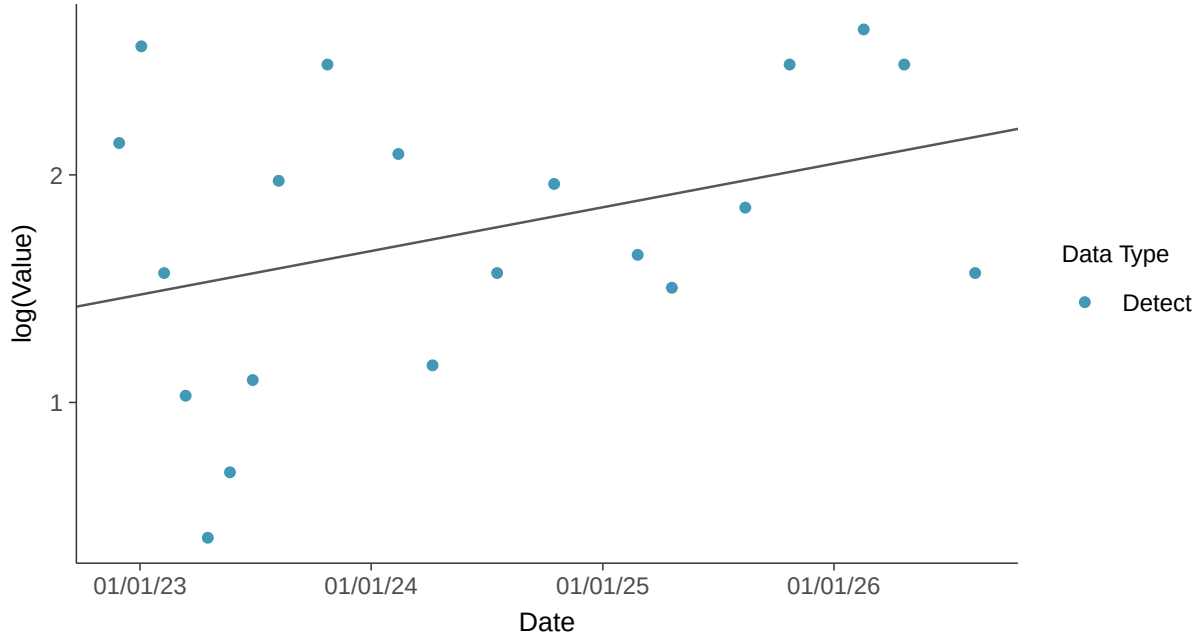
Gamma Q-Q plot

Boron, MW-11 (mg/L)



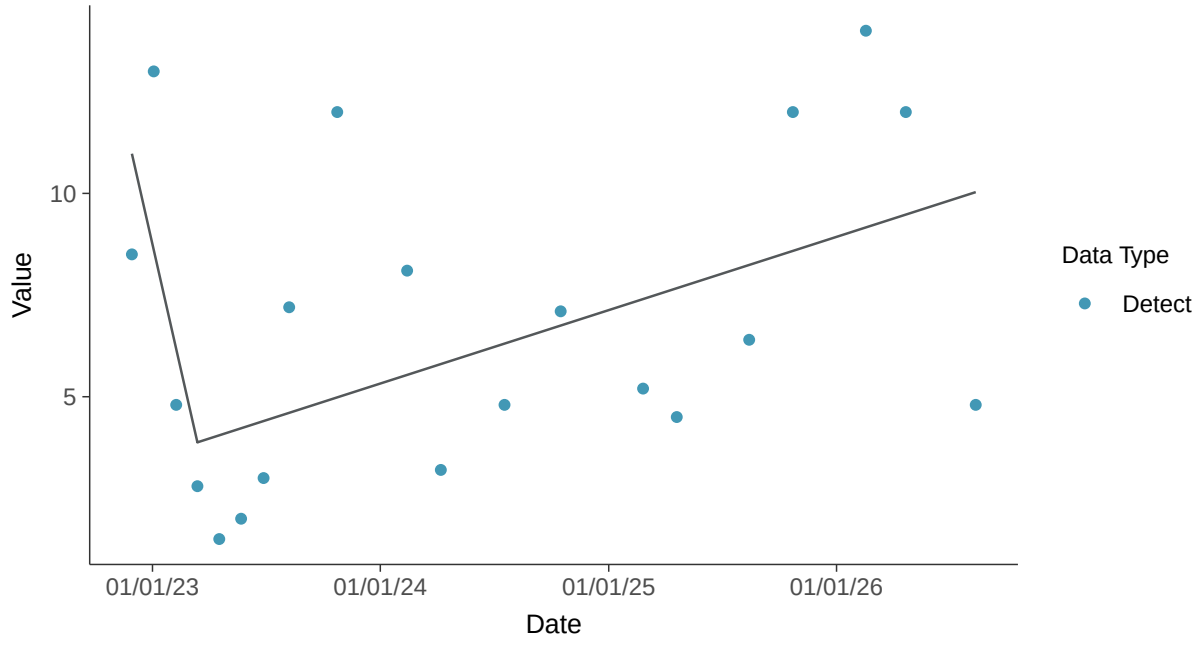
Trend Regression: Lognormal MLE

Boron, MW-11 (mg/L)



Trend Regression: Piecewise Linear-Linear

Boron, MW-11 (mg/L)

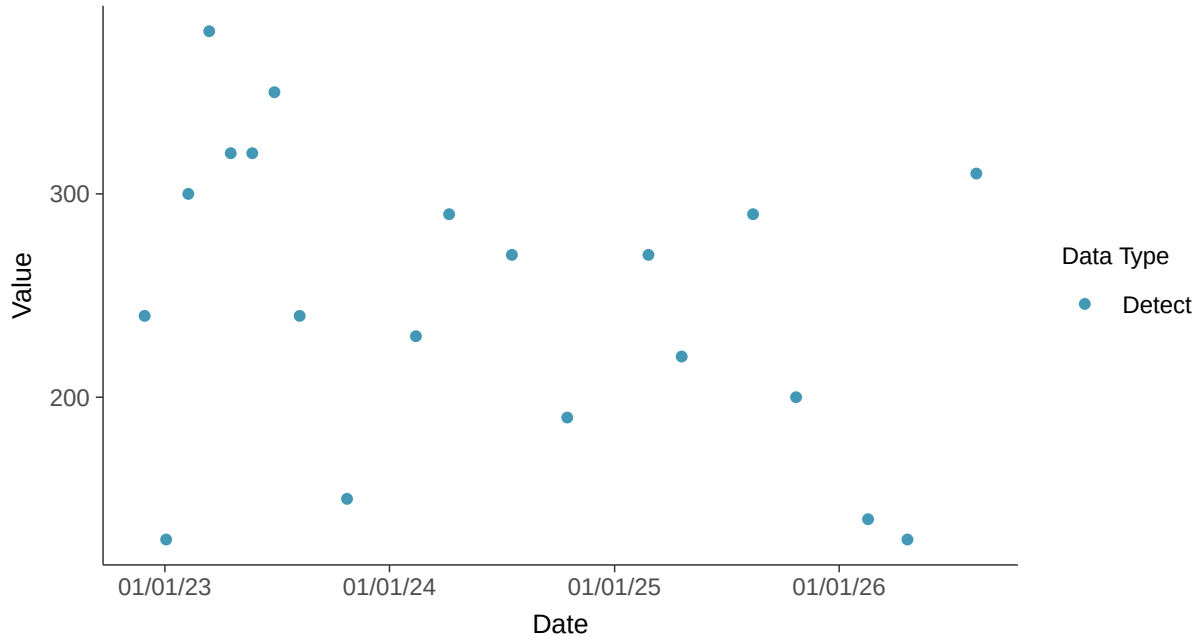


Appendix III: Calcium, MW-11

ID: 21_2_3_107

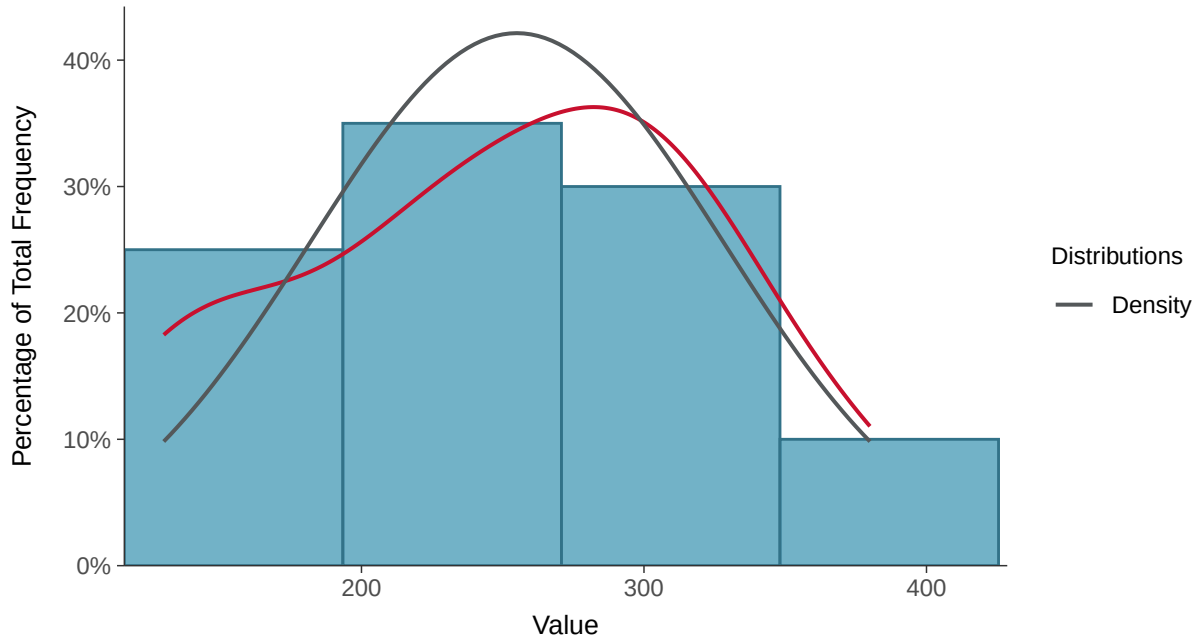
Scatter Plot

Calcium, MW-11 (mg/L)



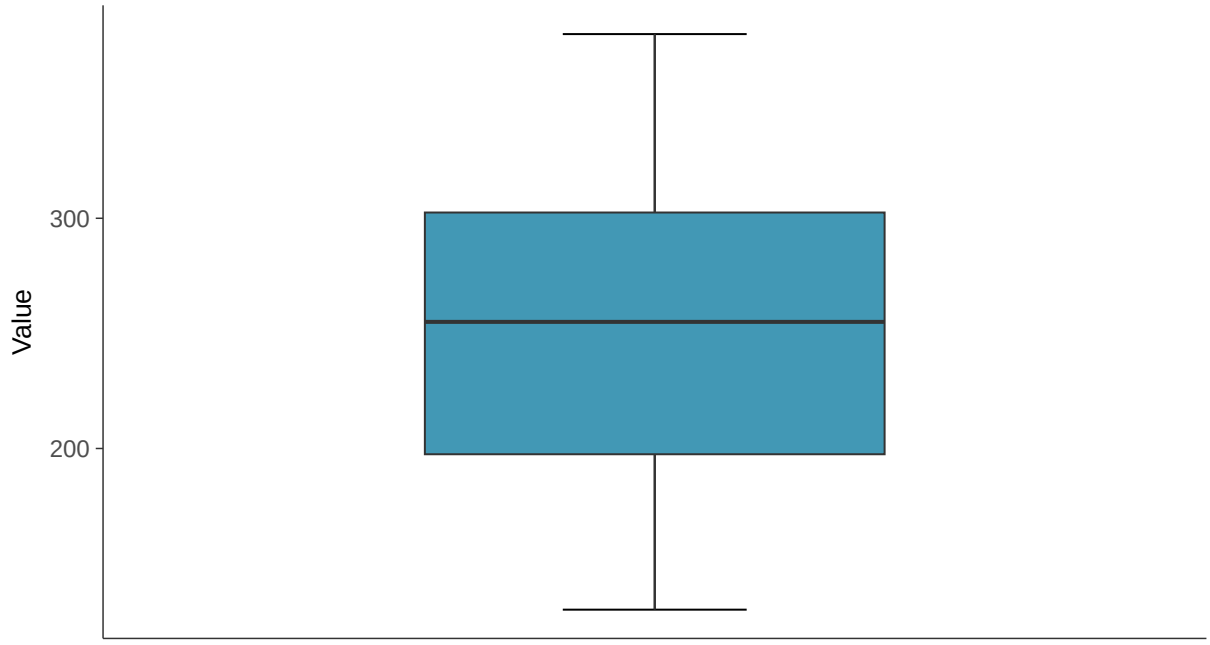
Histogram

Calcium, MW-11 (mg/L)



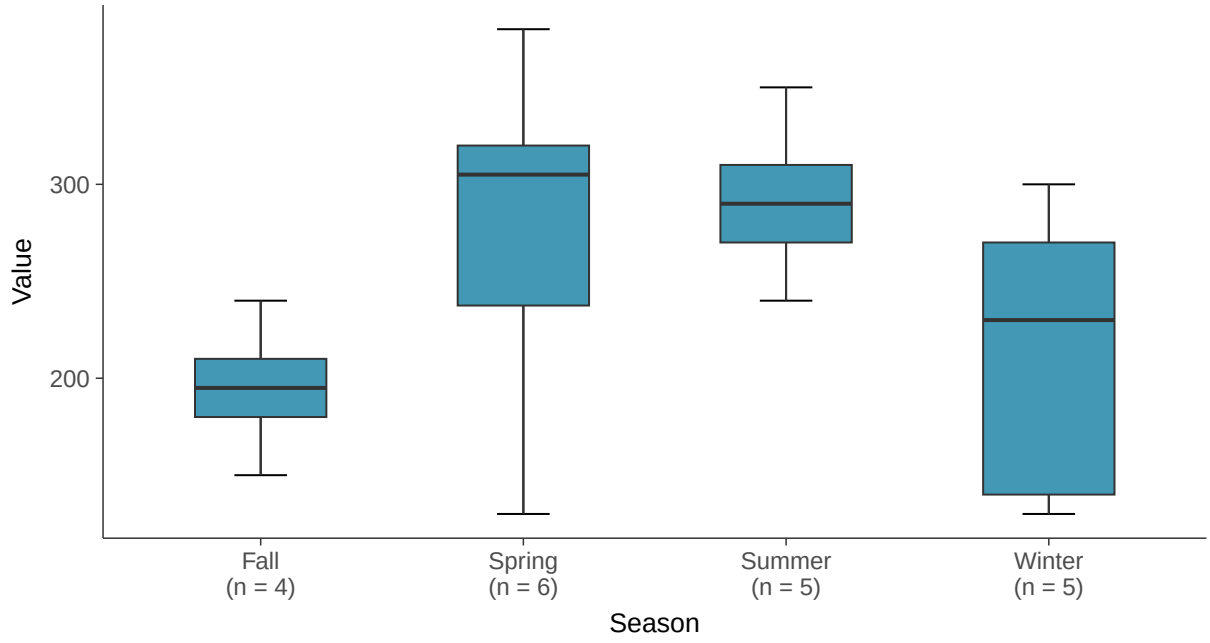
Boxplot

Calcium, MW-11 (mg/L)



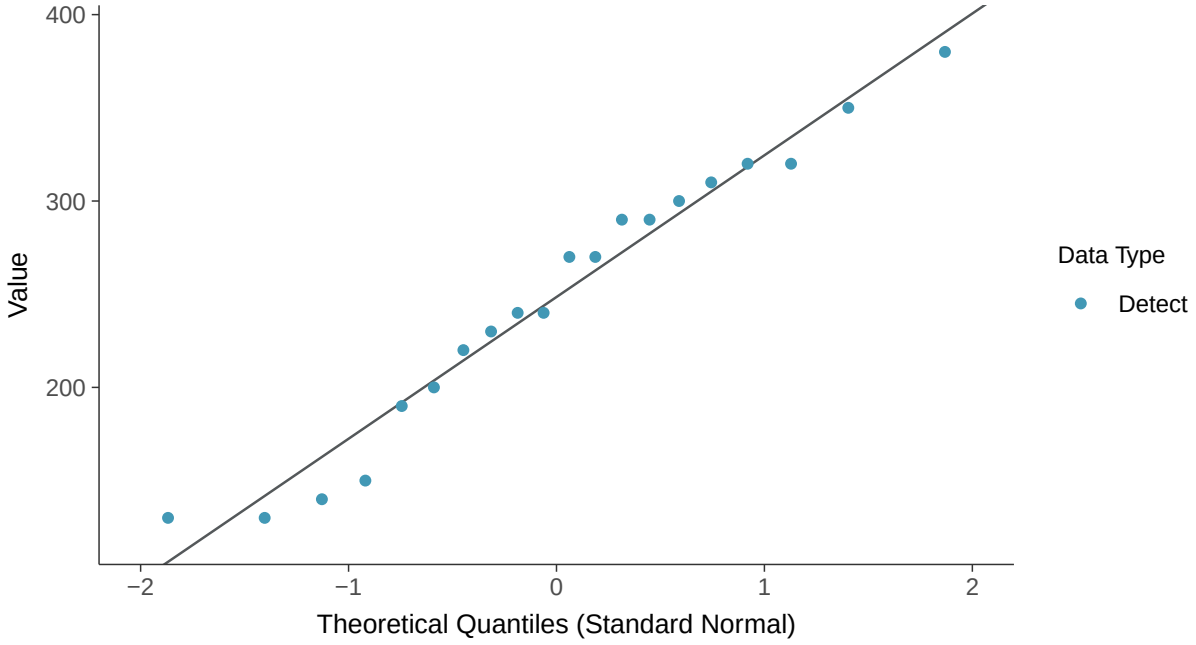
Boxplot by Season

Calcium, MW-11 (mg/L)



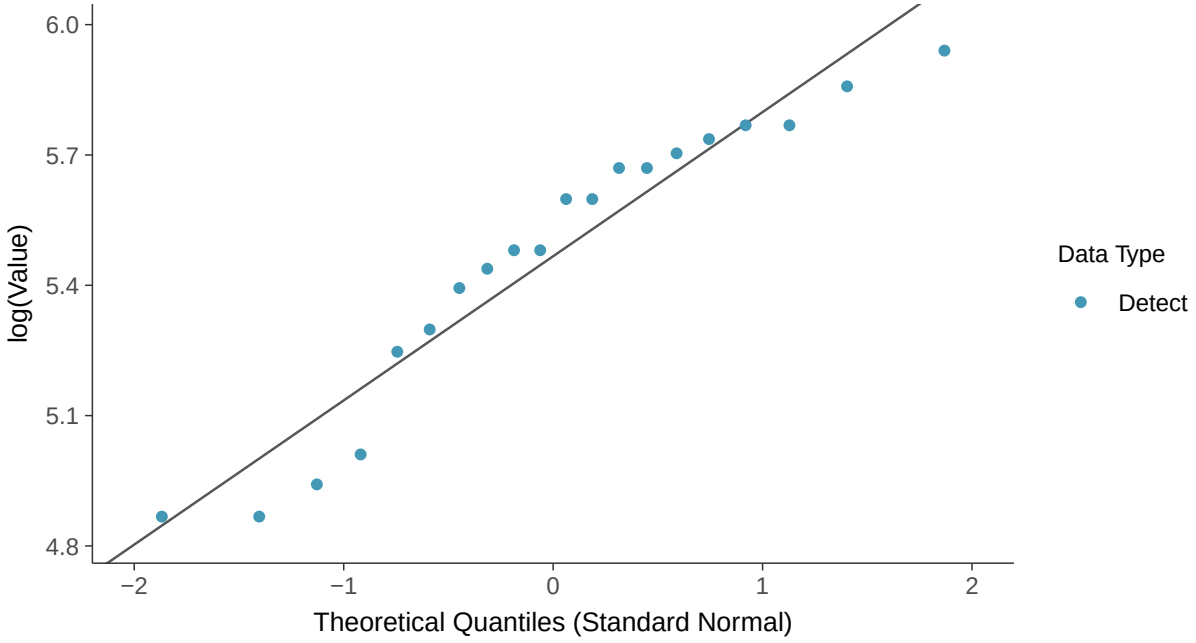
Normal Q-Q plot

Calcium, MW-11 (mg/L)



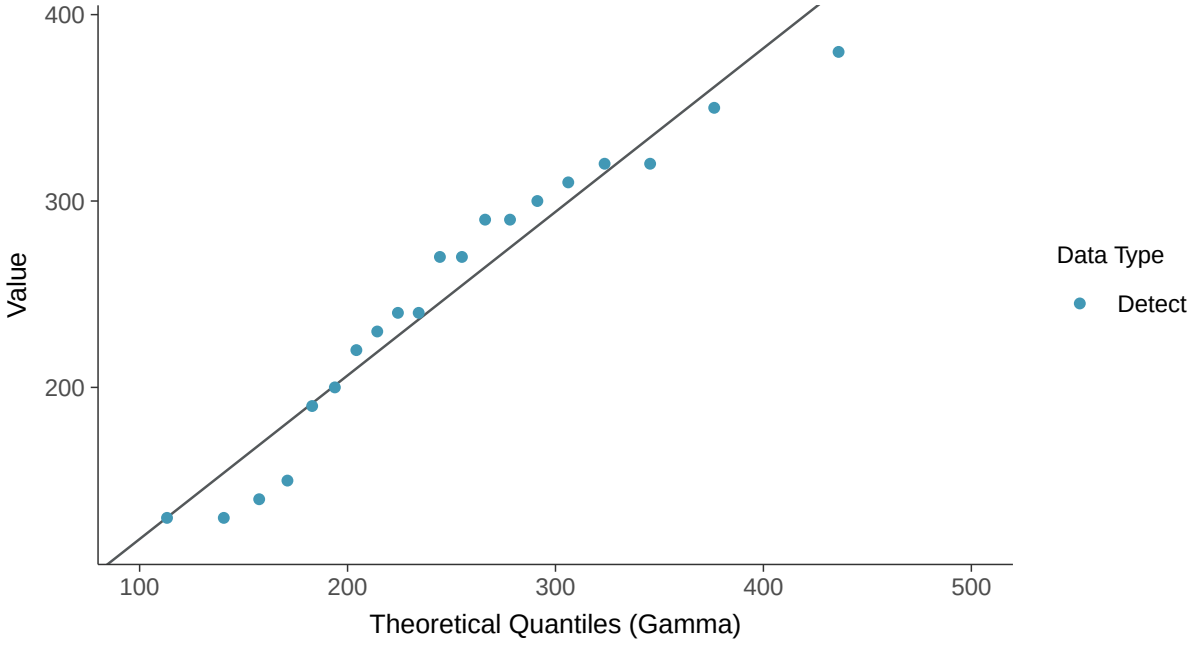
Lognormal Q-Q plot

Calcium, MW-11 (mg/L)



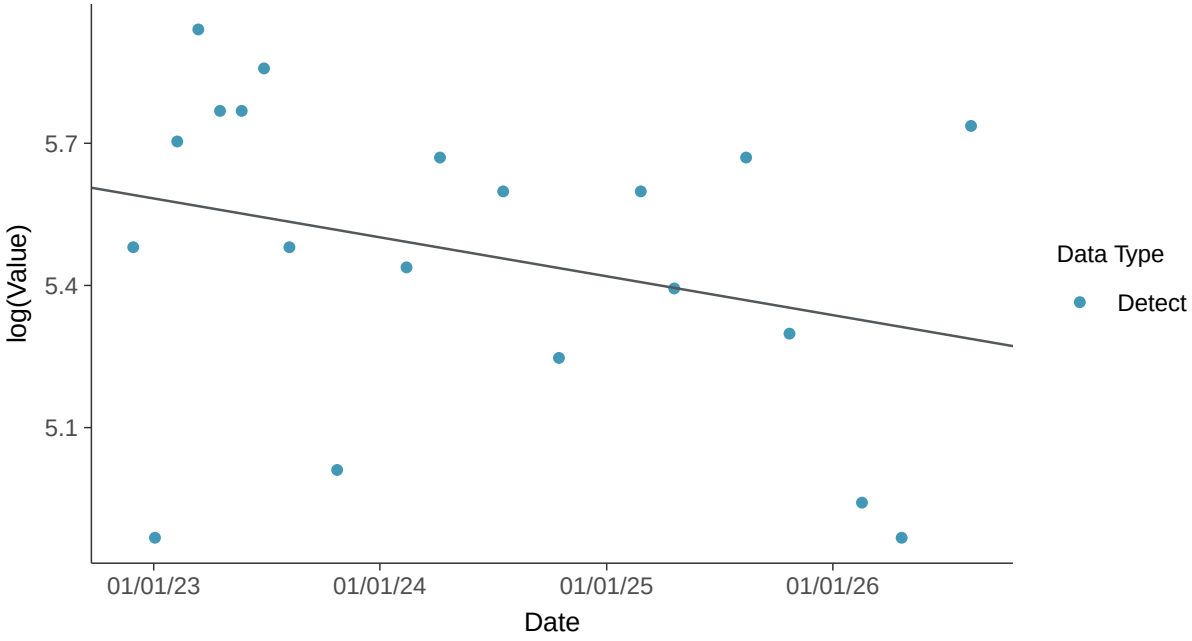
Gamma Q-Q plot

Calcium, MW-11 (mg/L)



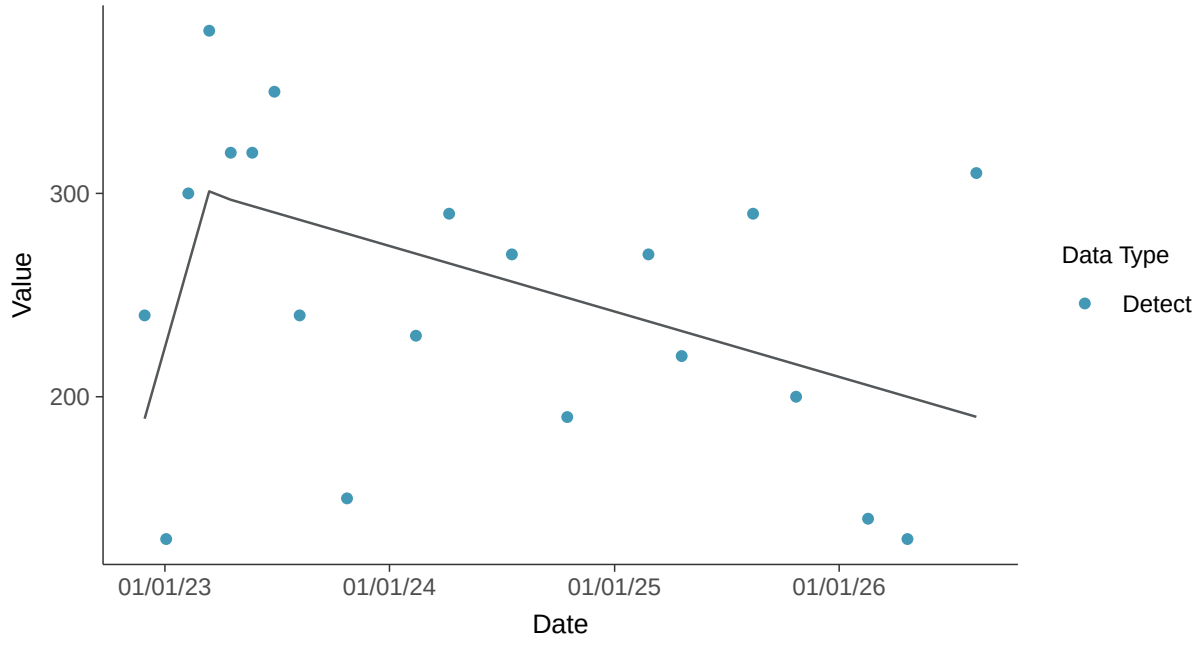
Trend Regression: Lognormal MLE

Calcium, MW-11 (mg/L)



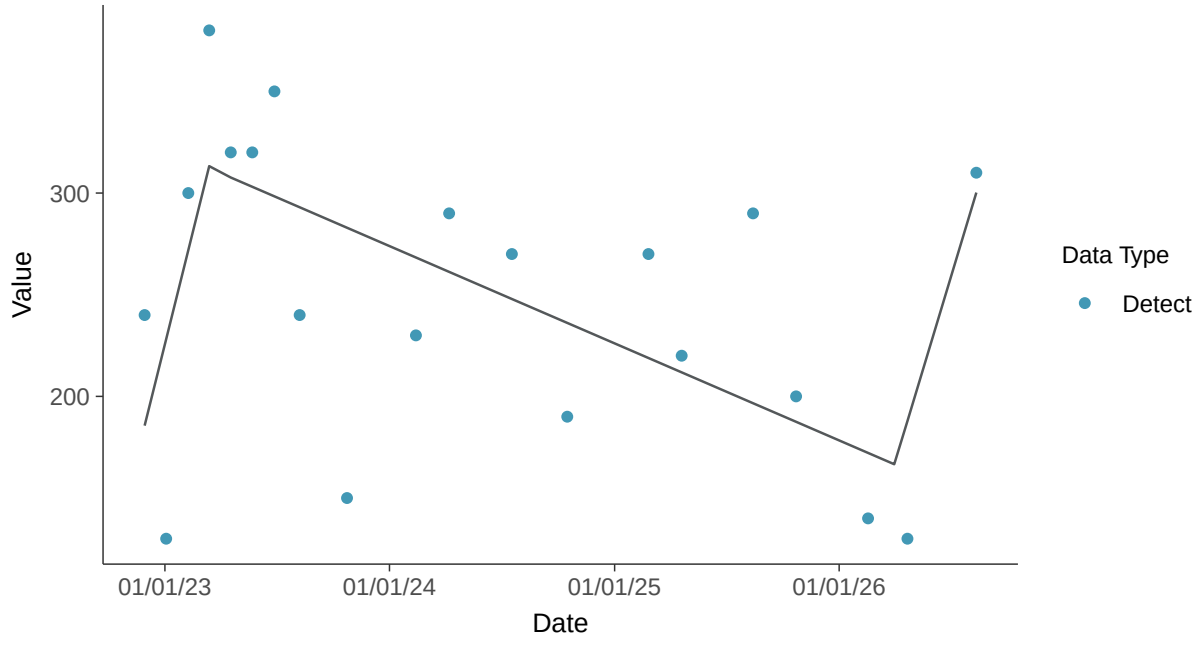
Trend Regression: Piecewise Linear-Linear

Calcium, MW-11 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Calcium, MW-11 (mg/L)

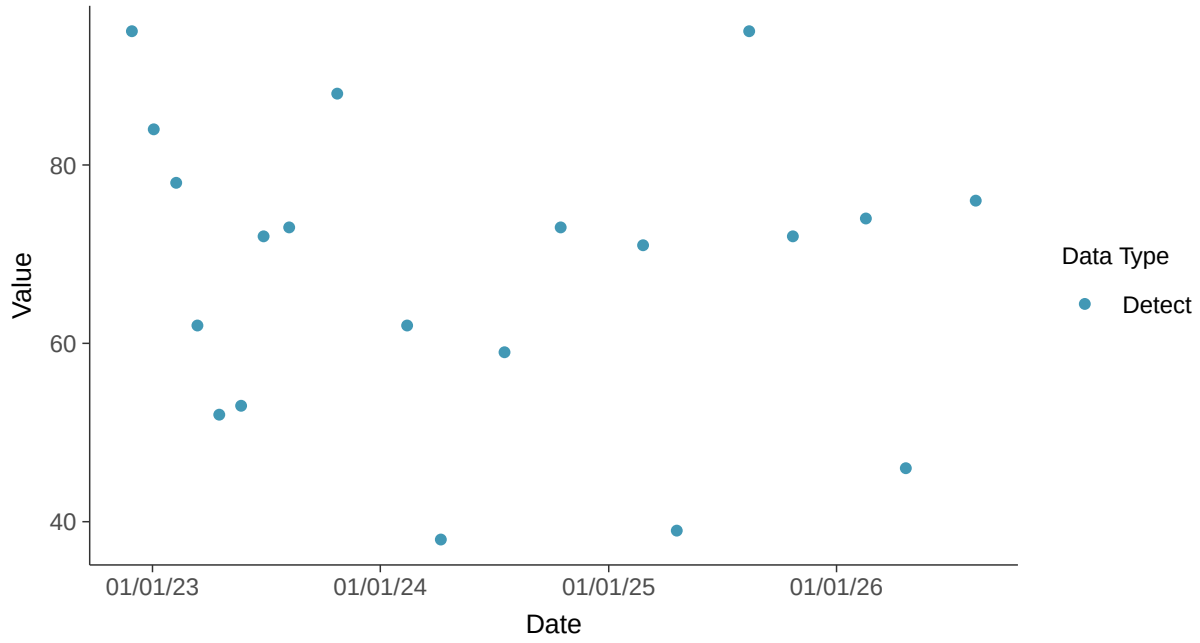


Appendix III: Chloride (as Cl), MW-11

ID: 21_2_3_108

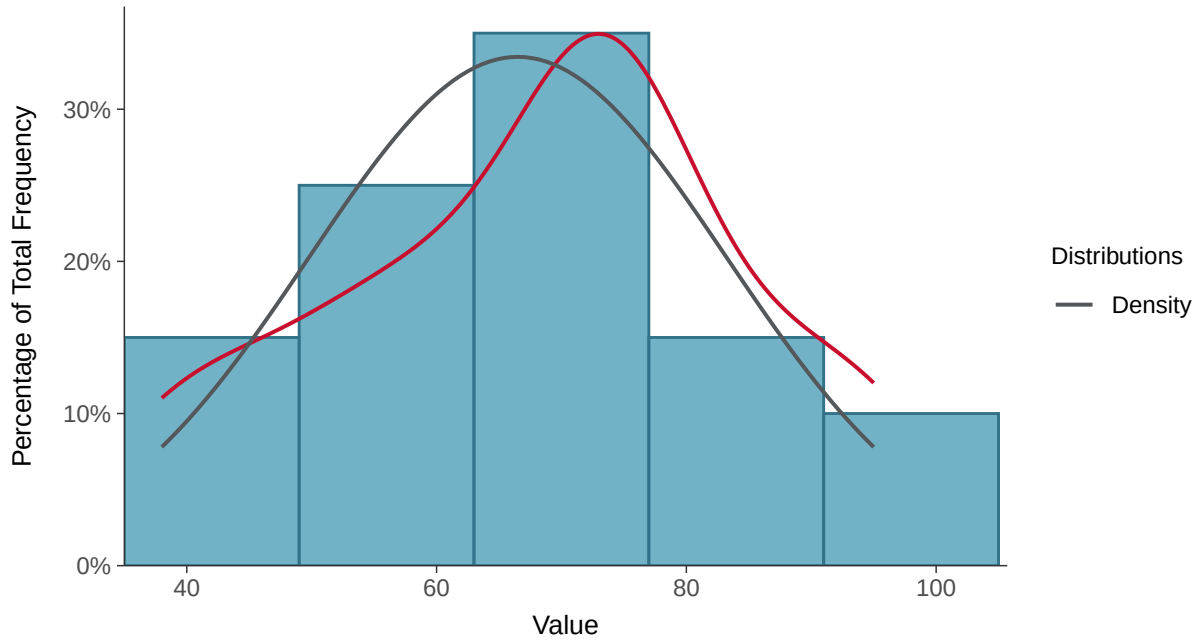
Scatter Plot

Chloride (as Cl), MW-11 (mg/L)



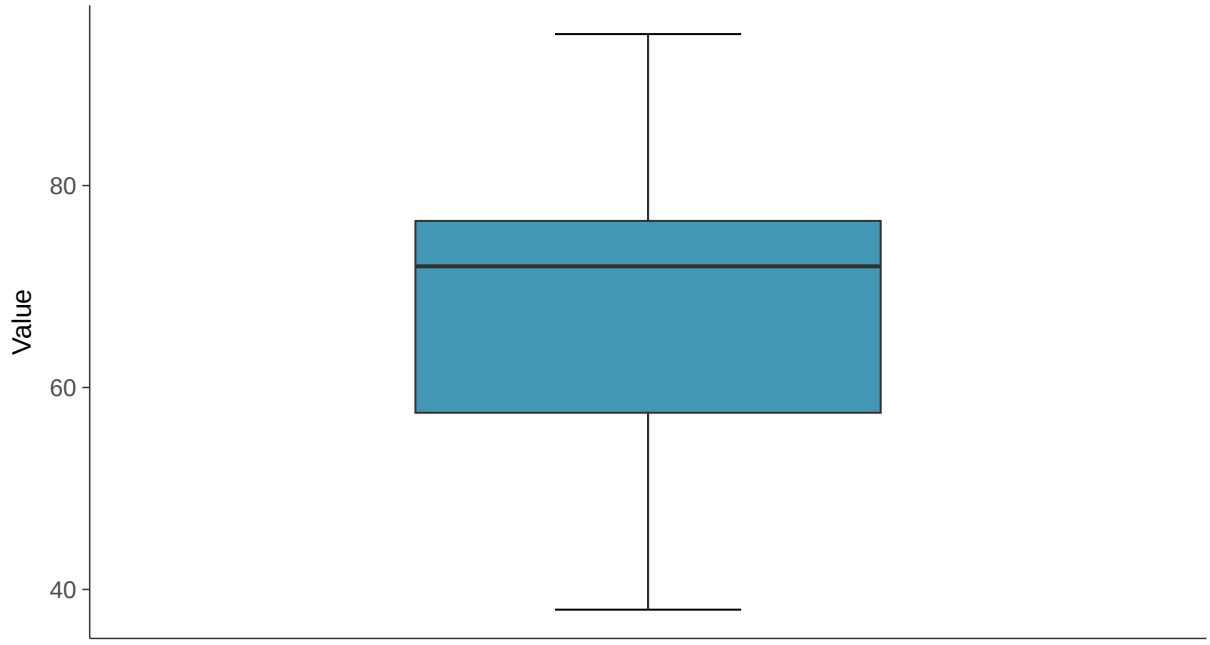
Histogram

Chloride (as Cl), MW-11 (mg/L)



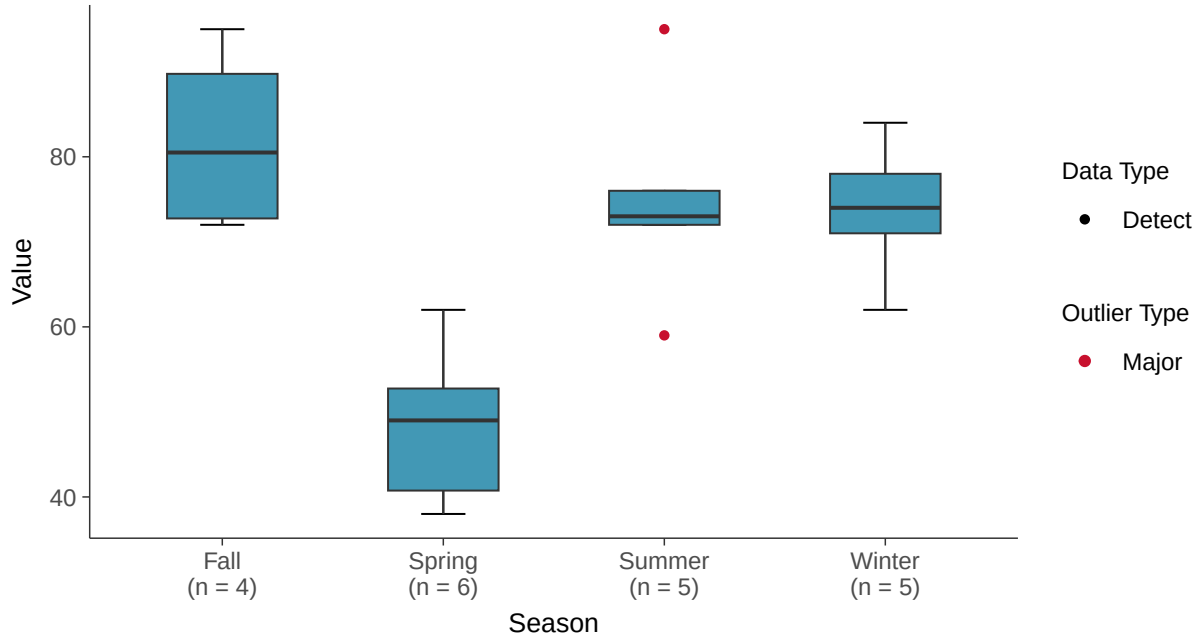
Boxplot

Chloride (as Cl), MW-11 (mg/L)



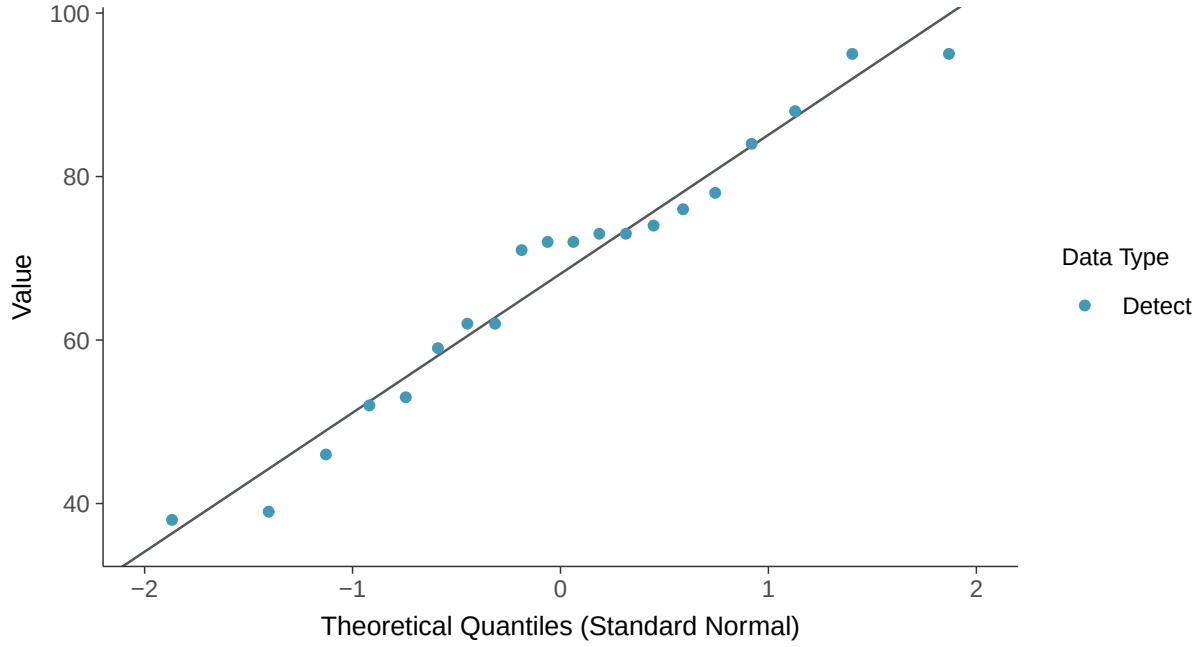
Boxplot by Season

Chloride (as Cl), MW-11 (mg/L)



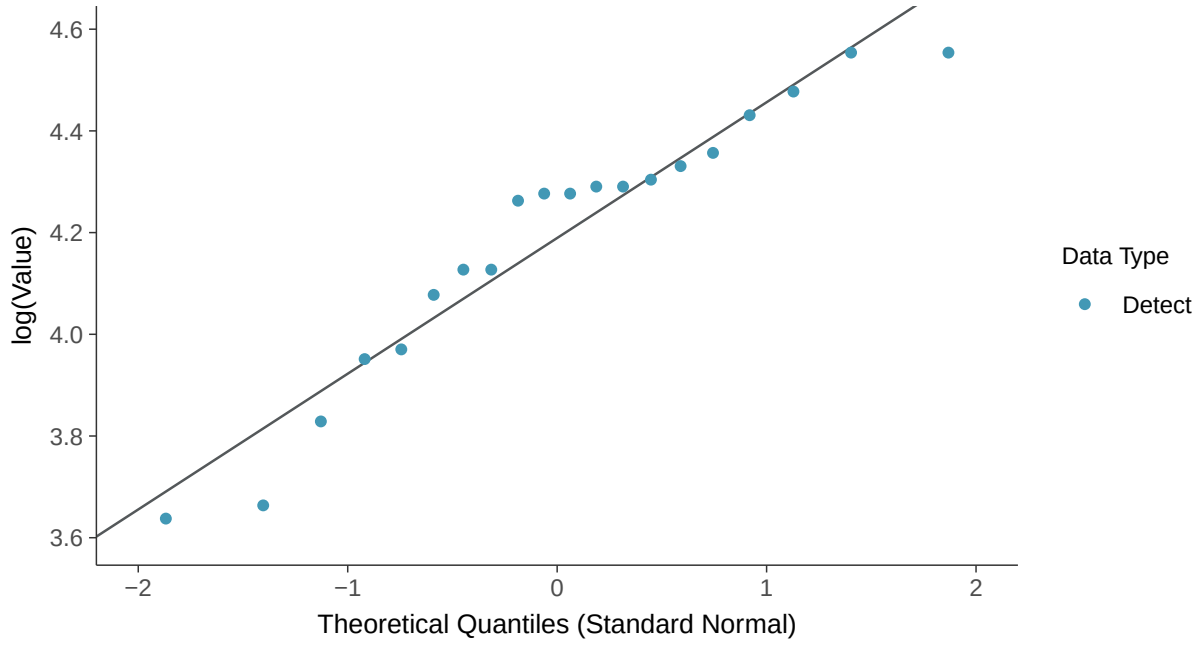
Normal Q-Q plot

Chloride (as Cl), MW-11 (mg/L)



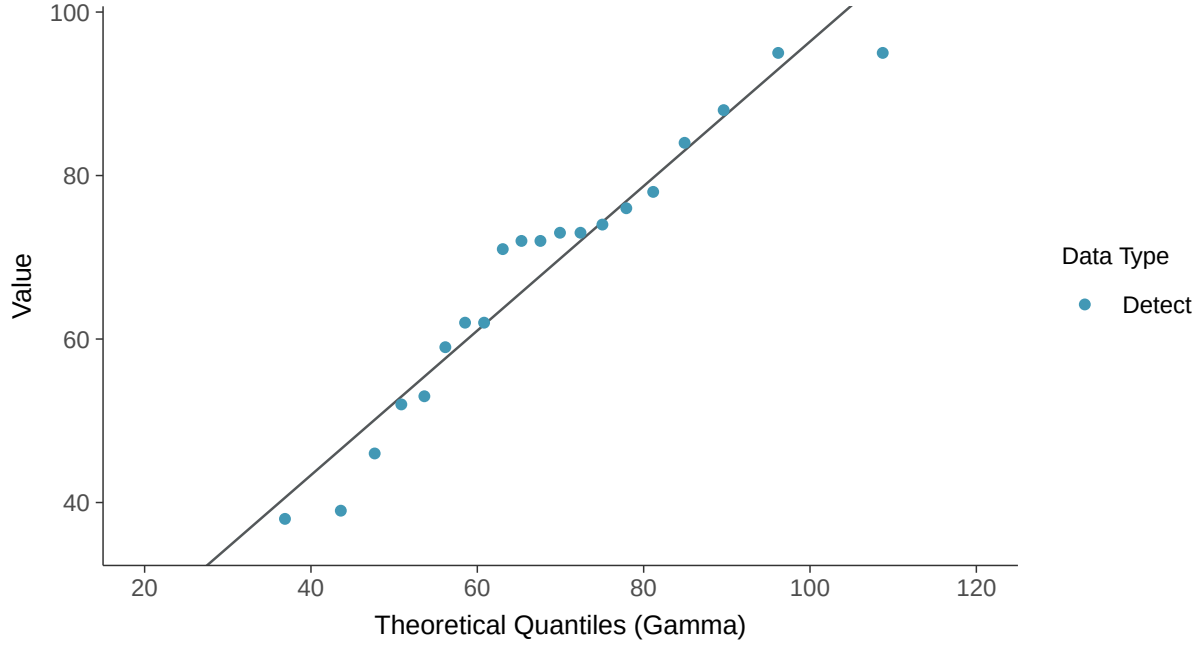
Lognormal Q-Q plot

Chloride (as Cl), MW-11 (mg/L)



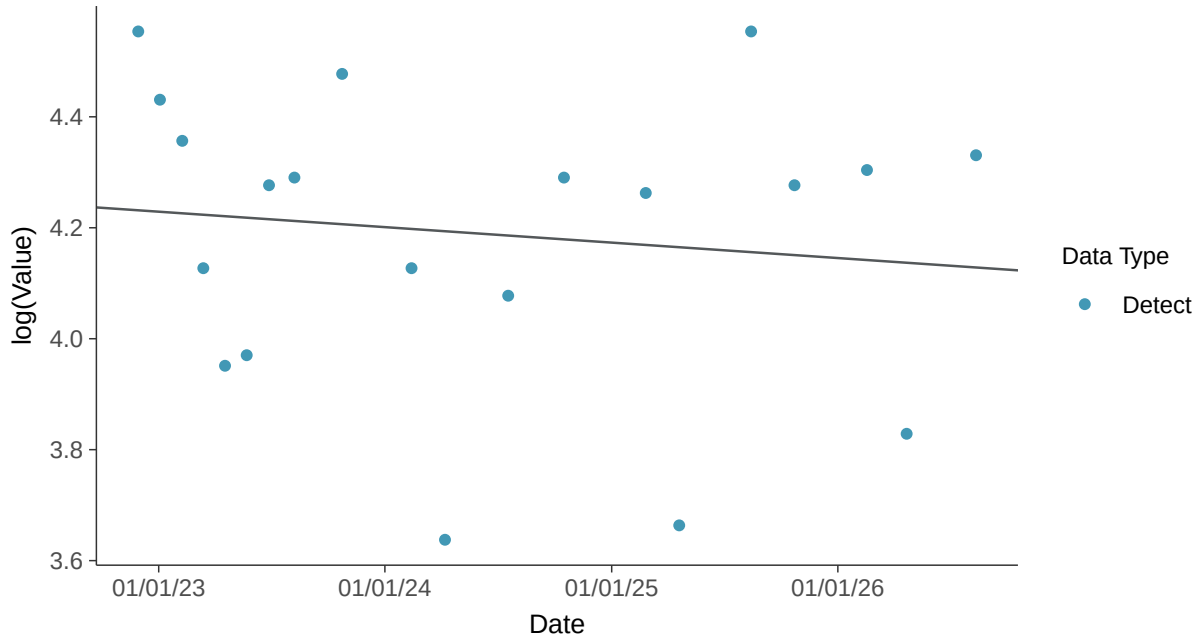
Gamma Q-Q plot

Chloride (as Cl), MW-11 (mg/L)



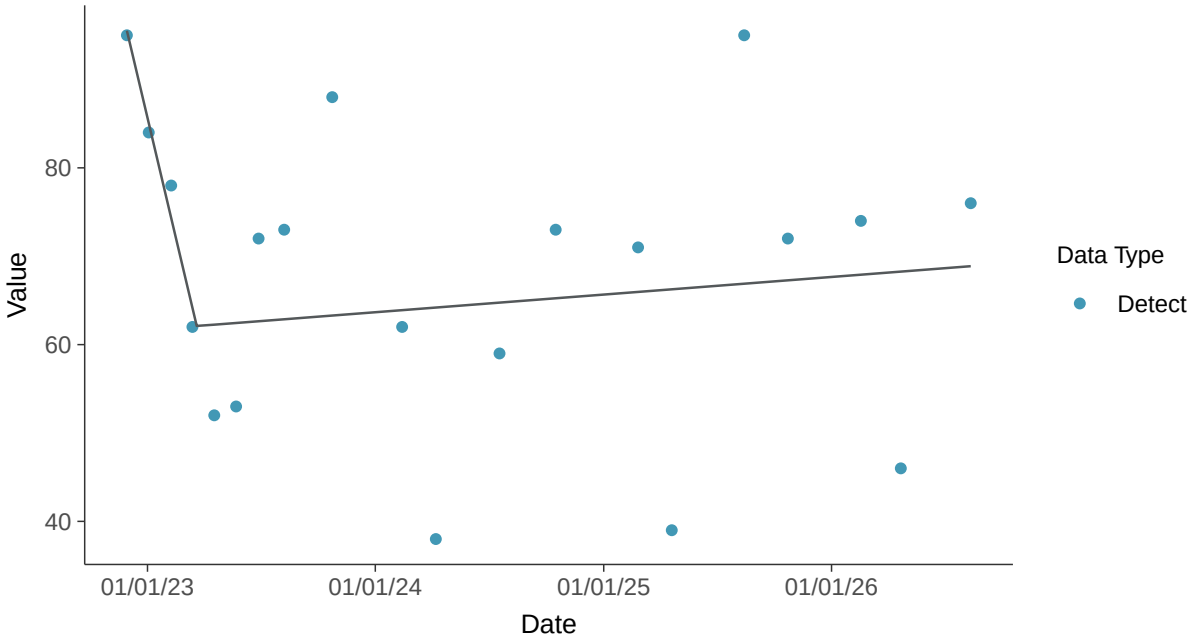
Trend Regression: Lognormal MLE

Chloride (as Cl), MW-11 (mg/L)



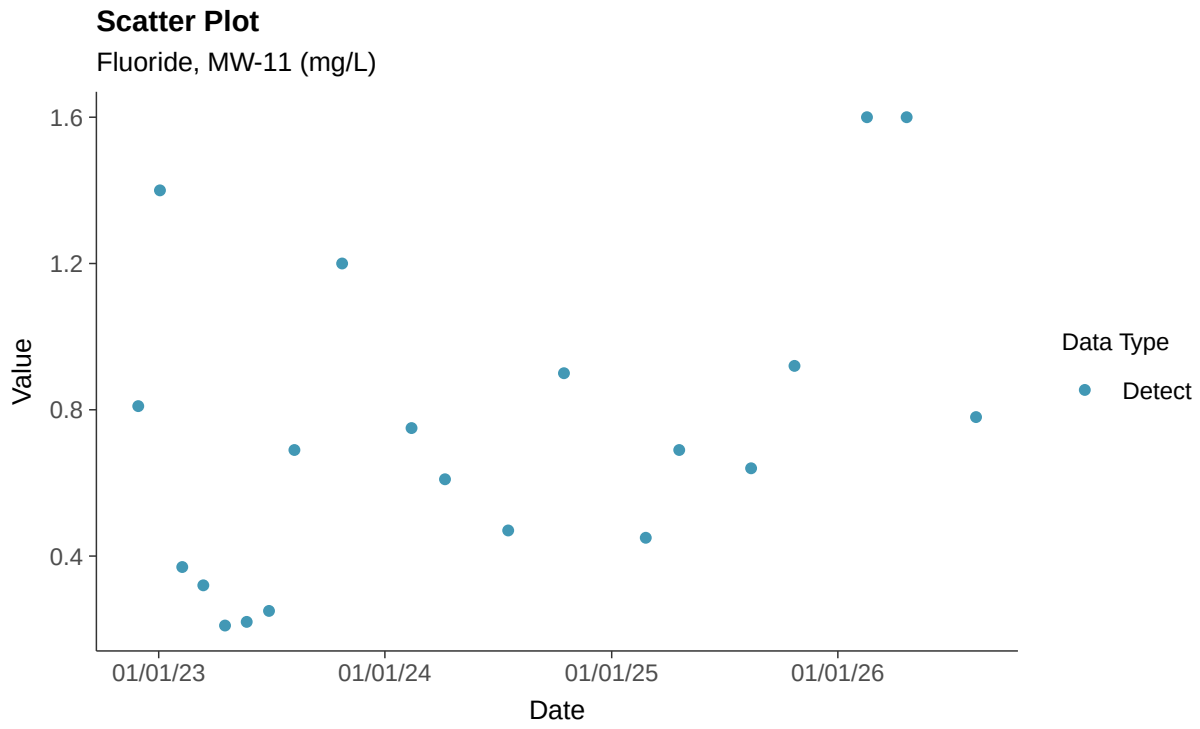
Trend Regression: Piecewise Linear-Linear

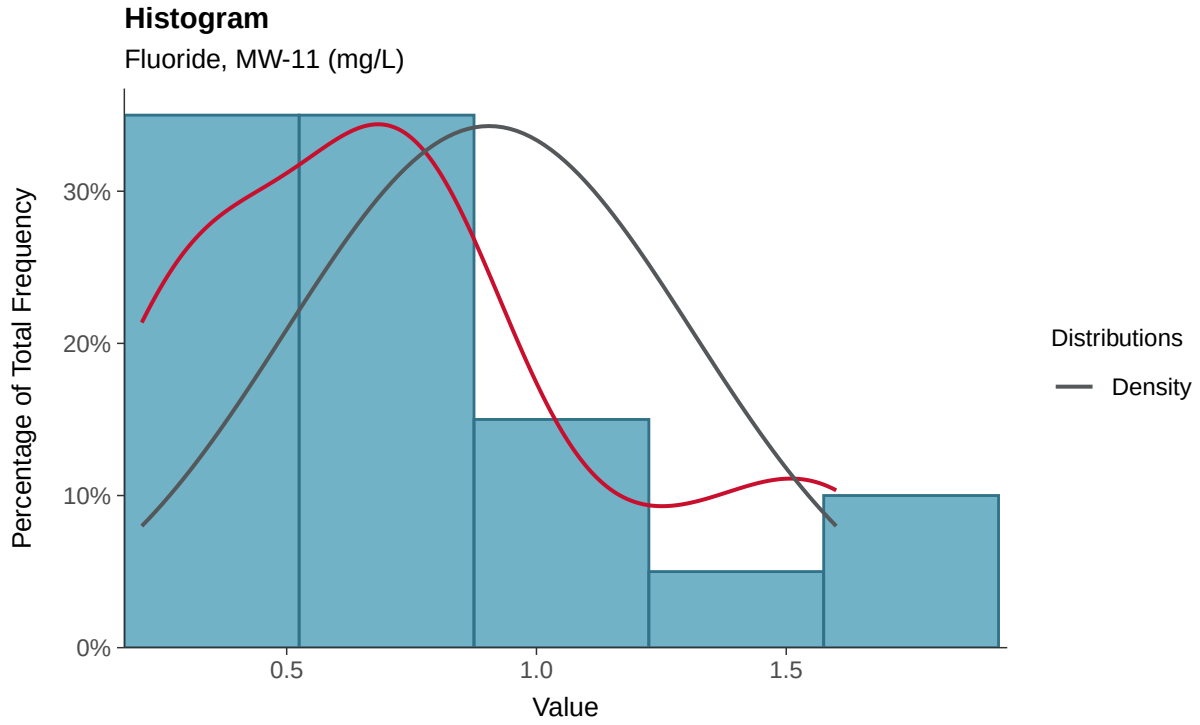
Chloride (as Cl), MW-11 (mg/L)



Appendix III: Fluoride, MW-11

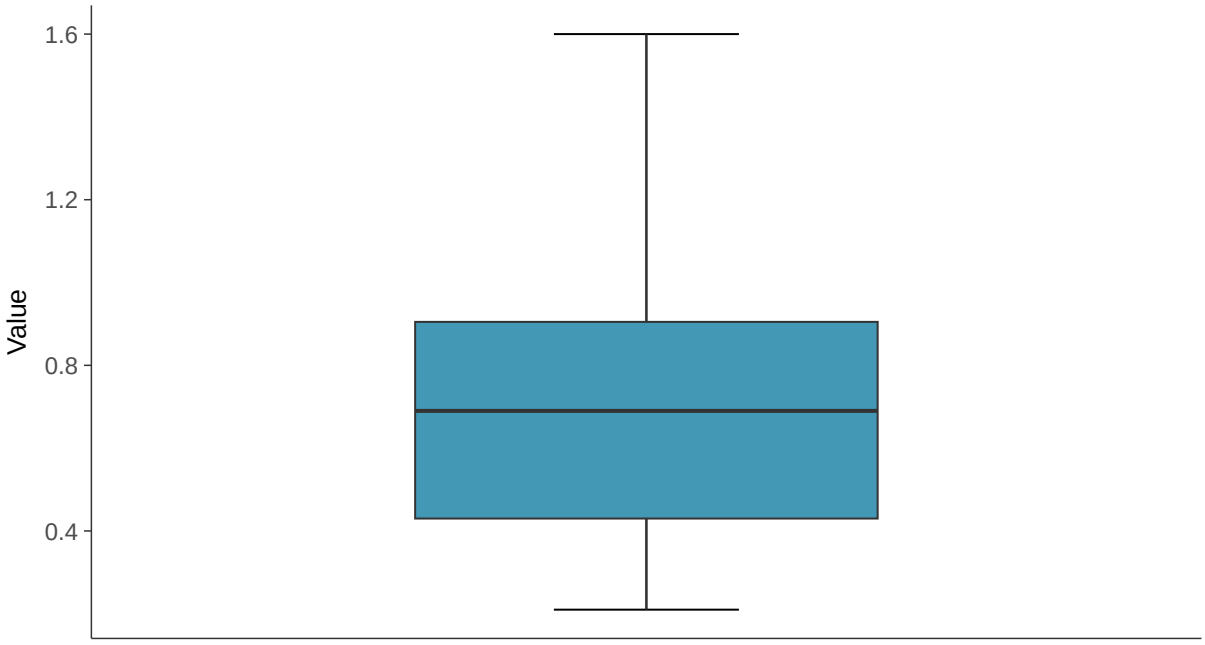
ID: 21_2_3_112





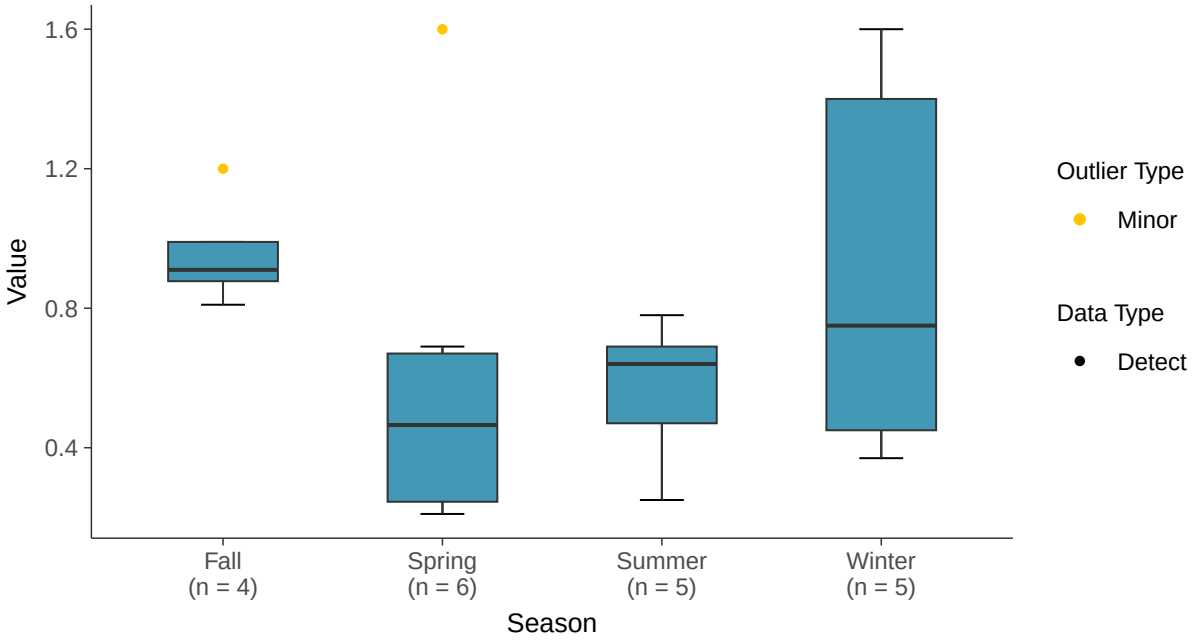
Boxplot

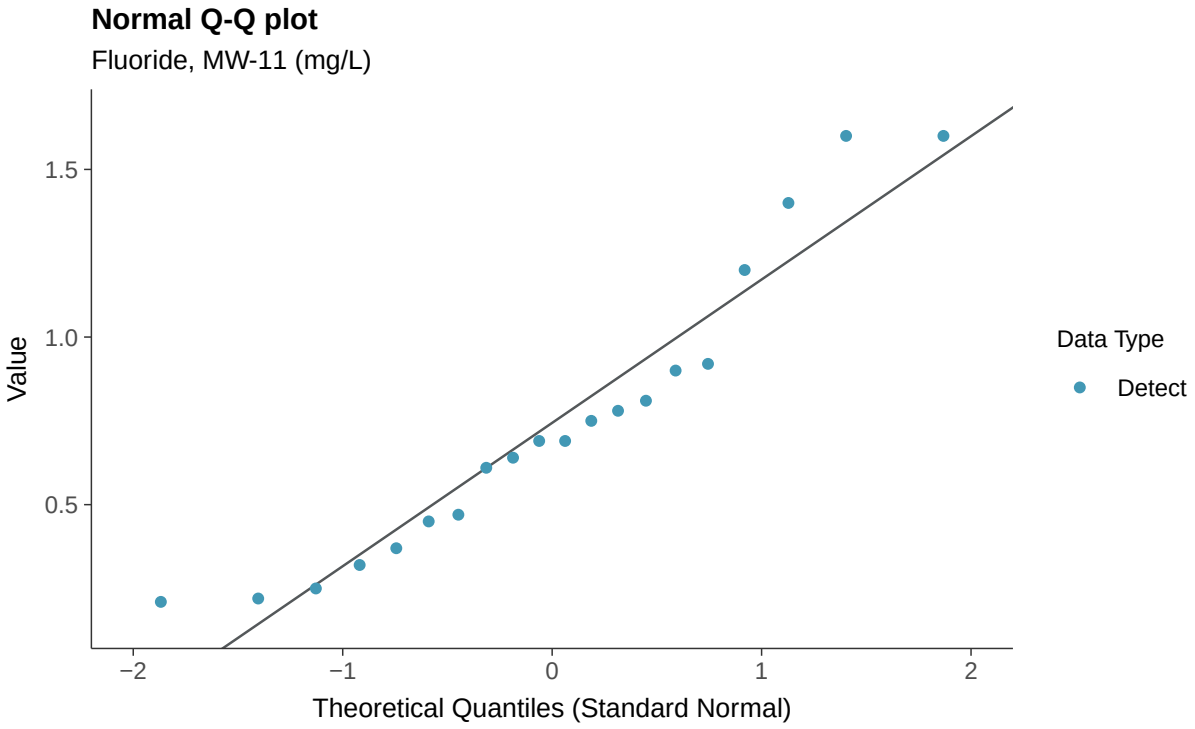
Fluoride, MW-11 (mg/L)

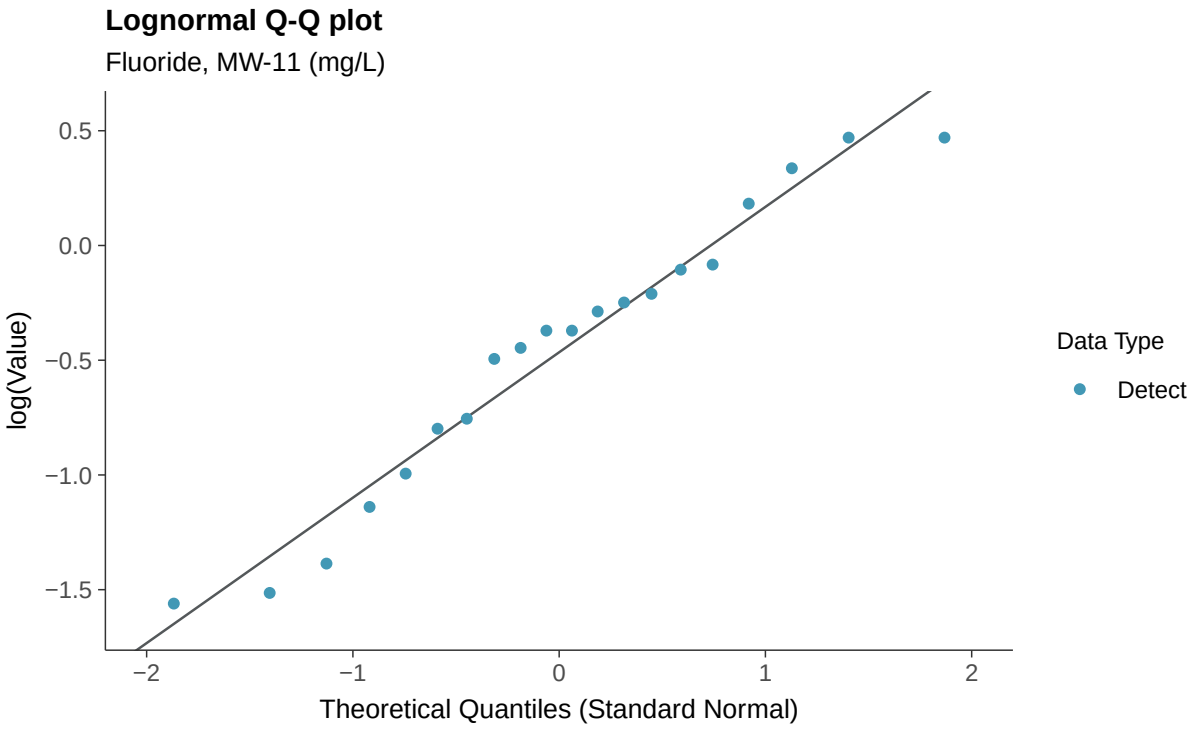


Boxplot by Season

Fluoride, MW-11 (mg/L)

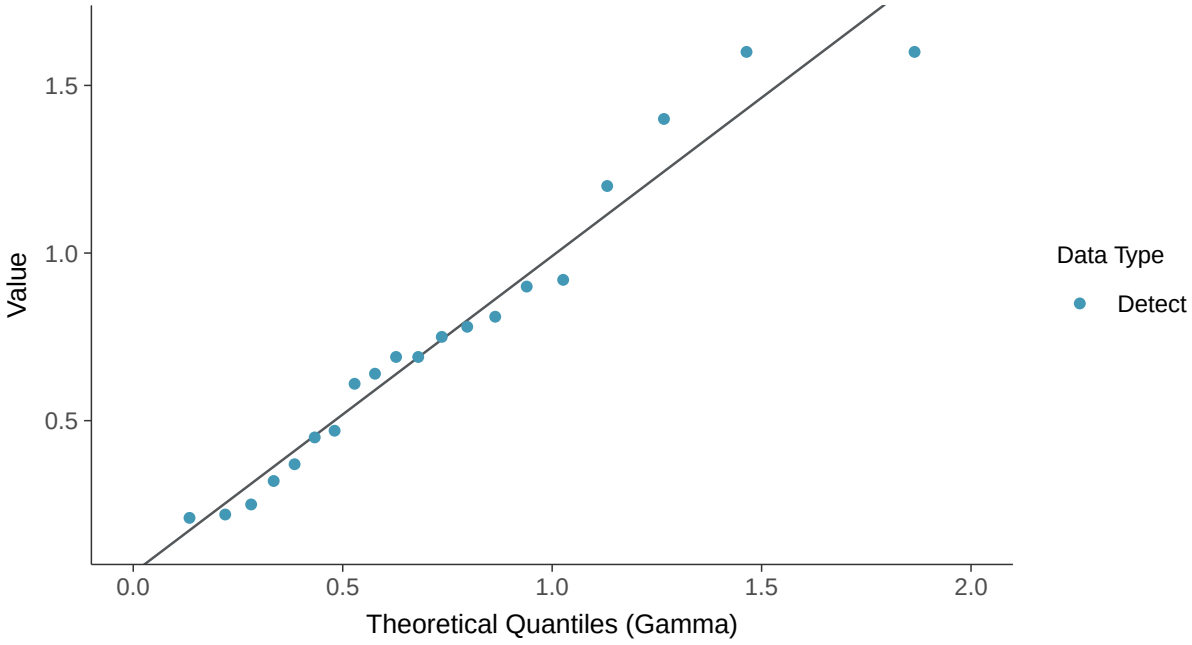



Normal Q-Q plot
Fluoride, MW-11 (mg/L)
Value
1.5
1.0
0.5
−2
−1
0
1
2
Theoretical Quantiles (Standard Normal)
Data Type
Detect


Lognormal Q-Q plot
Fluoride, MW-11 (mg/L)
log(Value)
0.5
0.0
−0.5
−1.0
−1.5
−2
−1
0
1
2
Theoretical Quantiles (Standard Normal)
Data Type
Detect

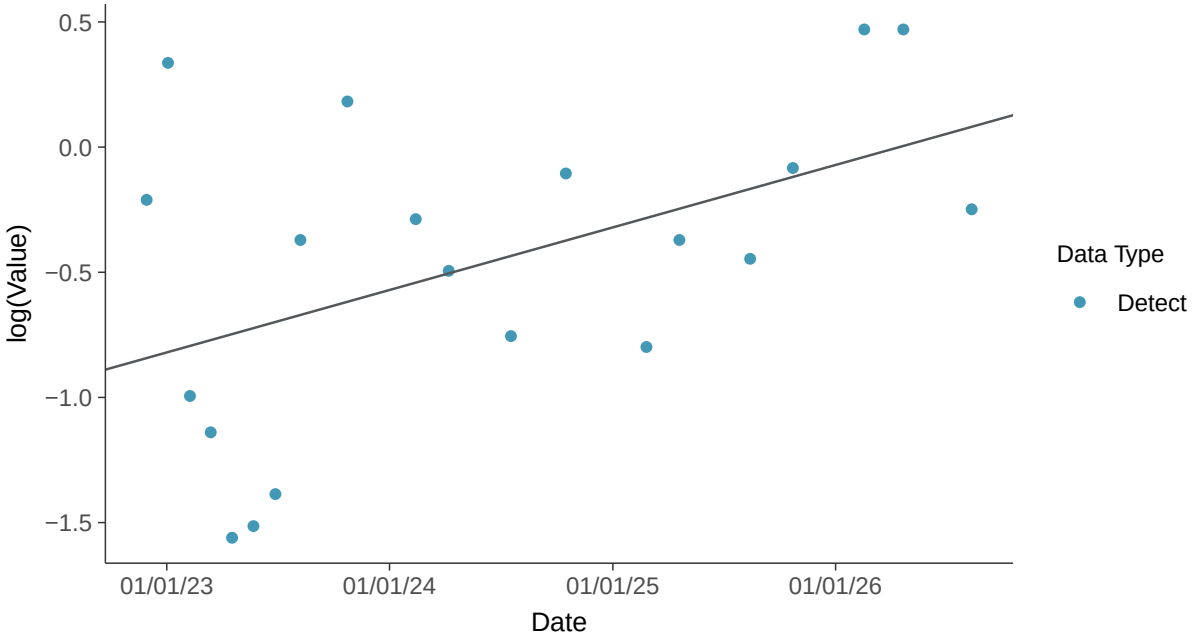
Gamma Q-Q plot

Fluoride, MW-11 (mg/L)



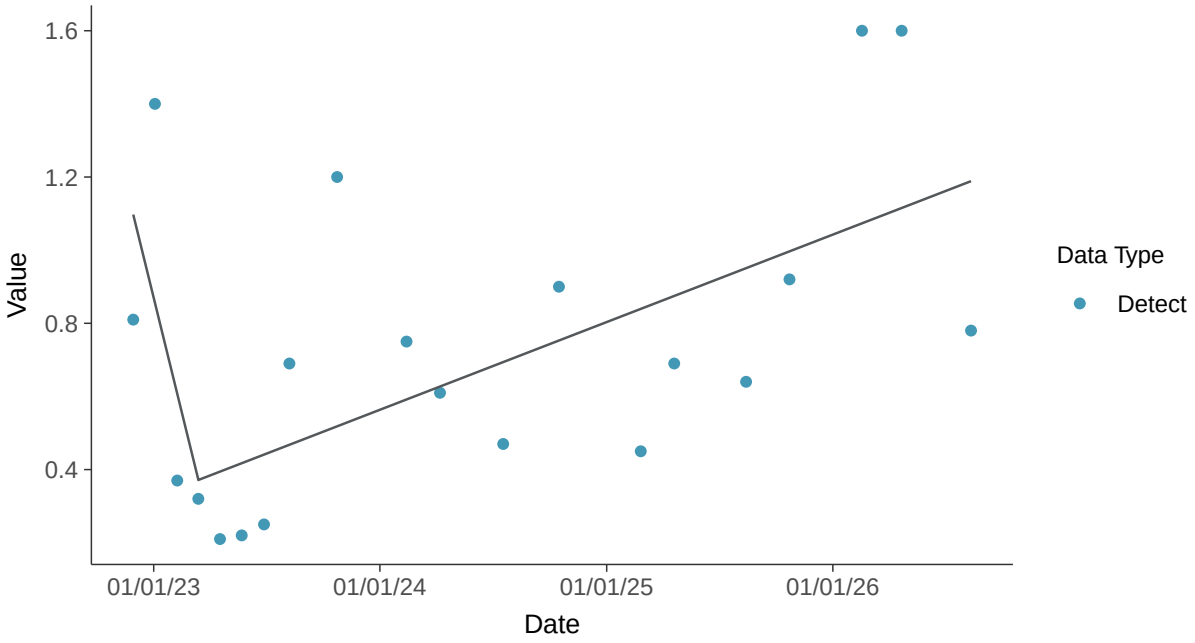
Trend Regression: Lognormal MLE

Fluoride, MW-11 (mg/L)



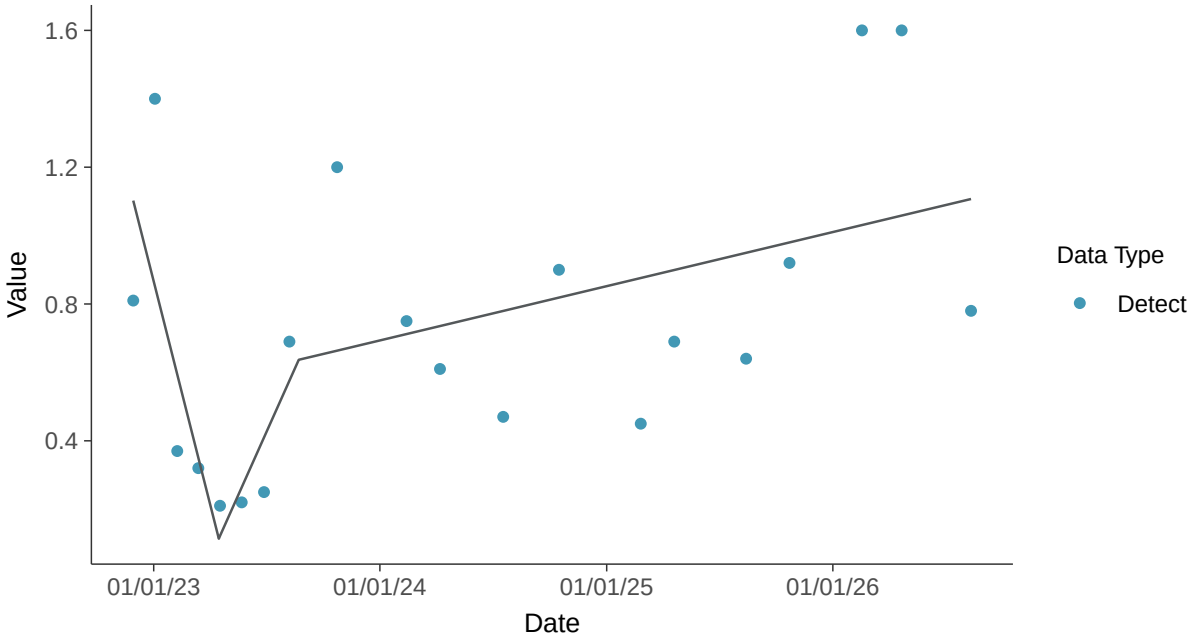
Trend Regression: Piecewise Linear-Linear

Fluoride, MW-11 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Fluoride, MW-11 (mg/L)

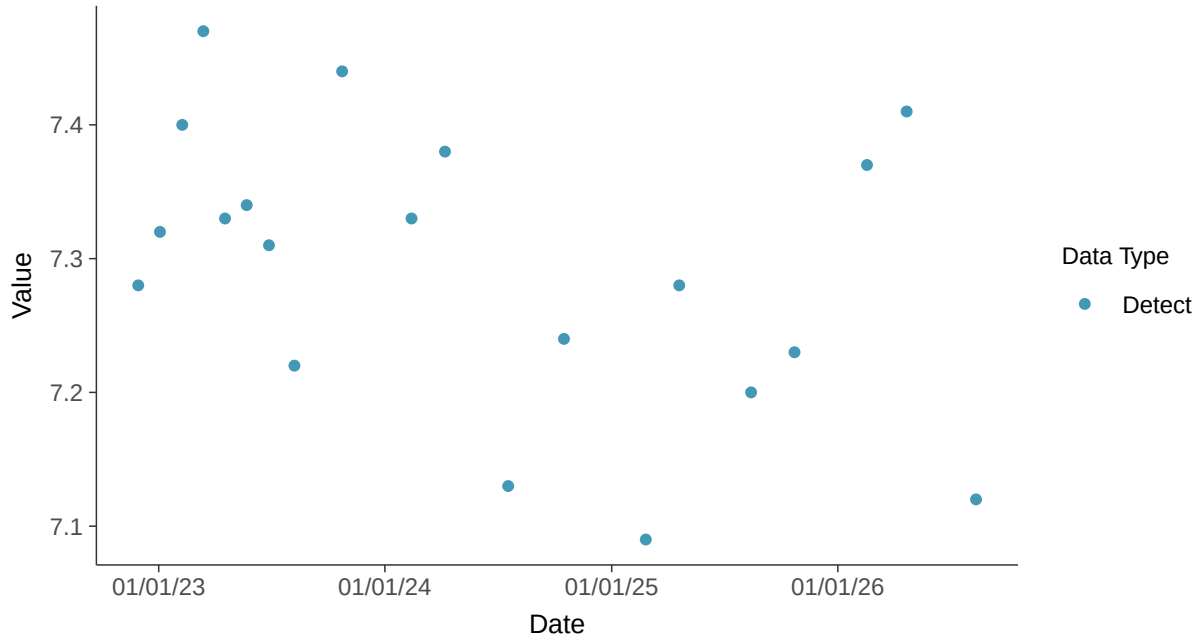


Appendix III: pH (field), MW-11

ID: 21_2_3_120

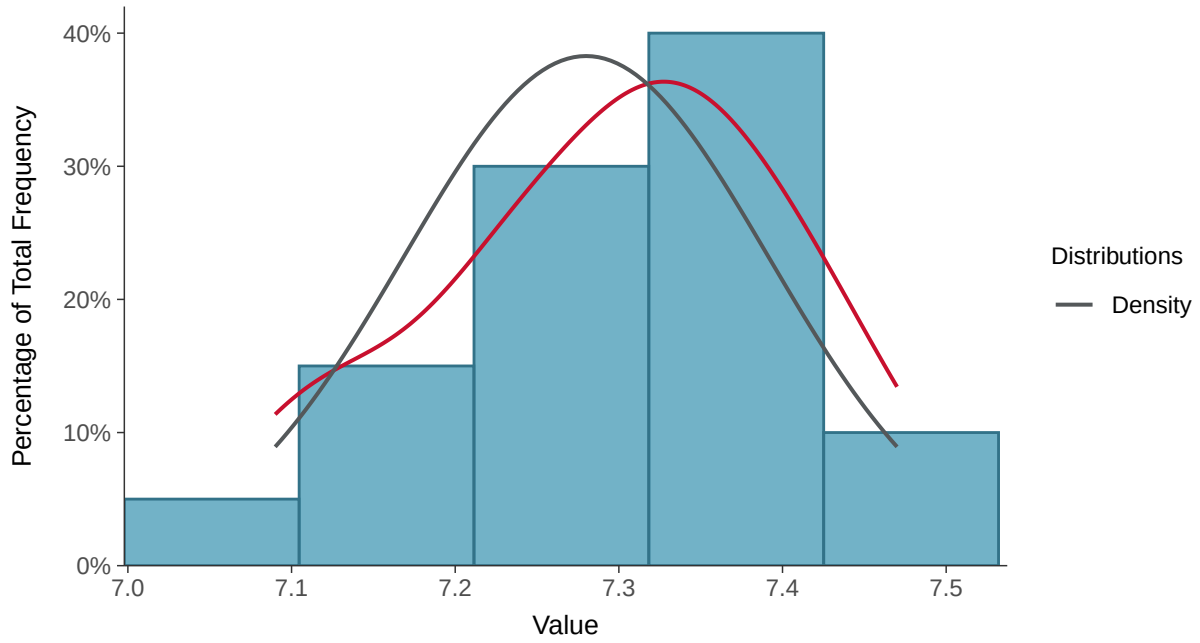
Scatter Plot

pH (field), MW-11 (su)



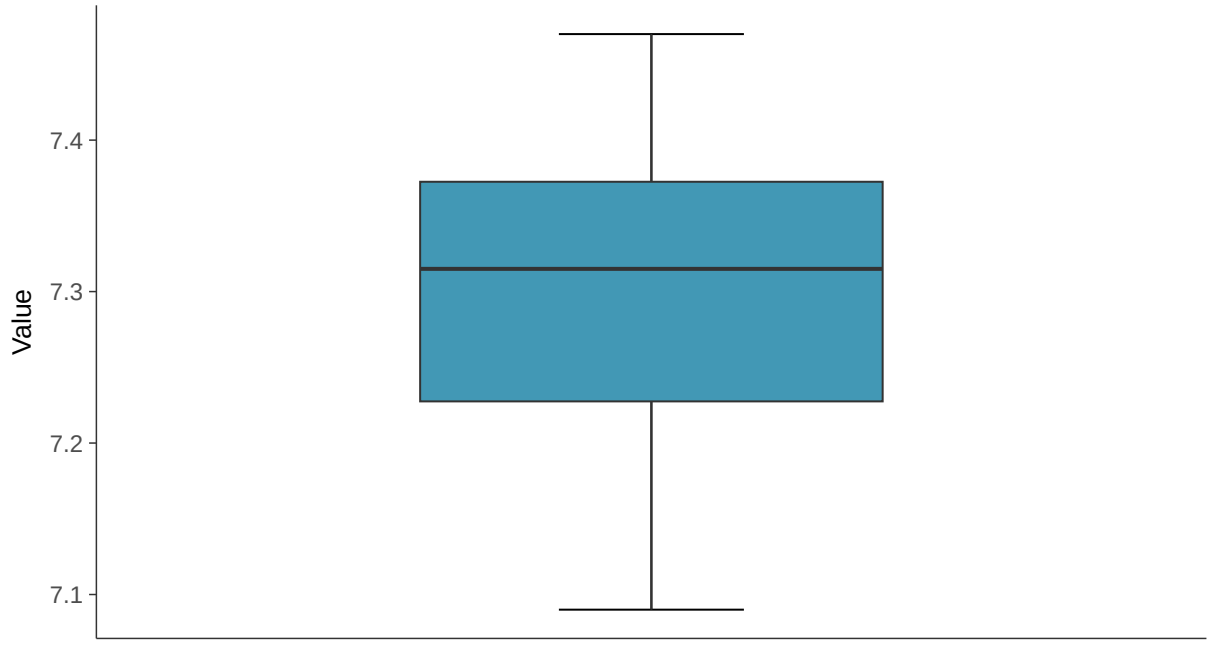
Histogram

pH (field), MW-11 (su)



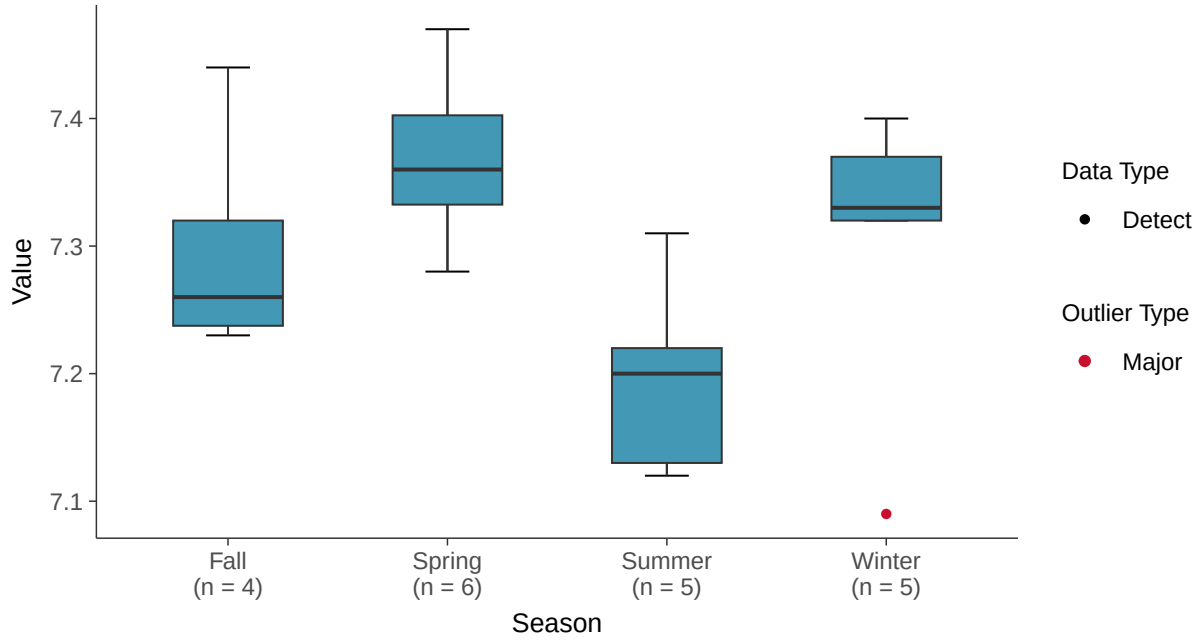
Boxplot

pH (field), MW-11 (su)



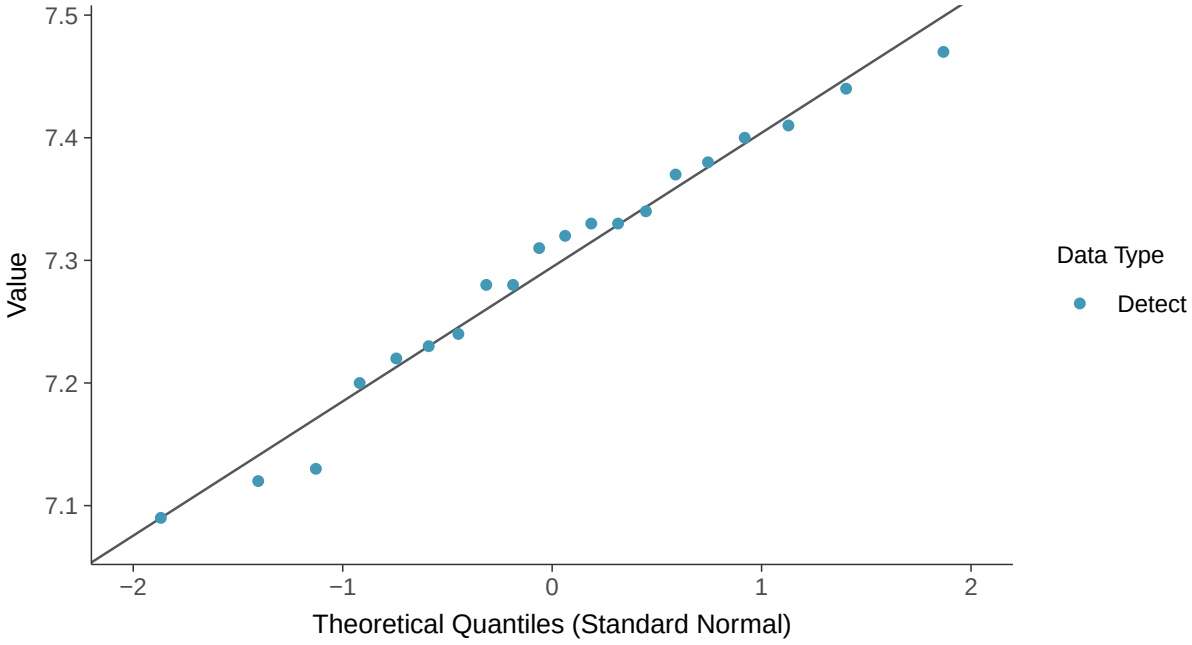
Boxplot by Season

pH (field), MW-11 (su)



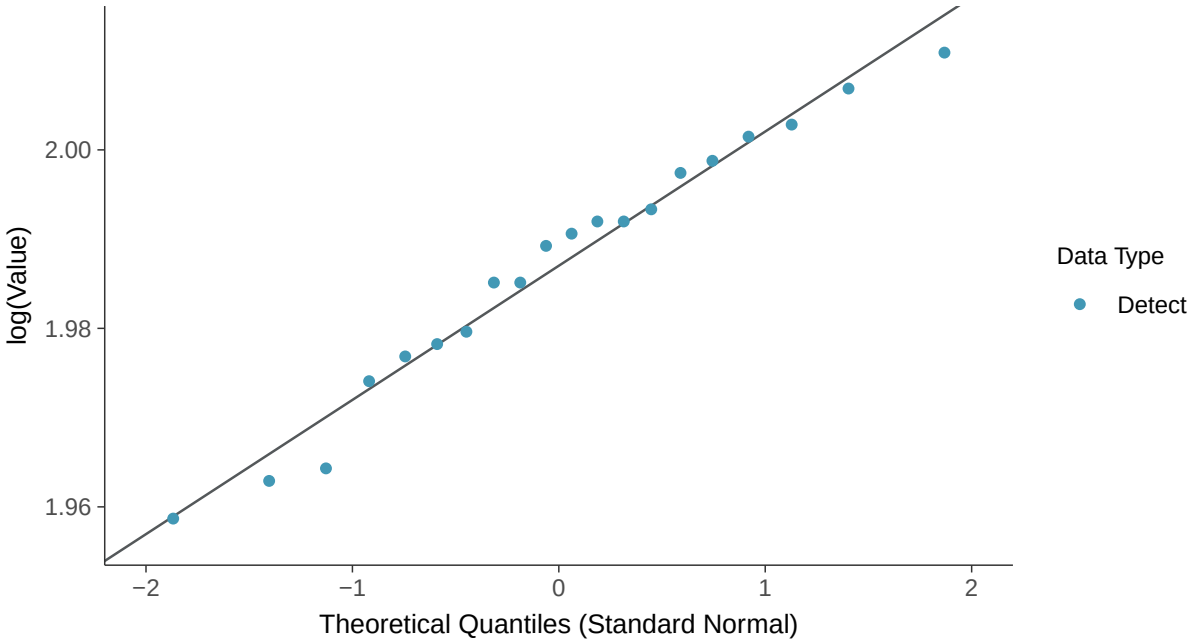
Normal Q-Q plot

pH (field), MW-11 (su)



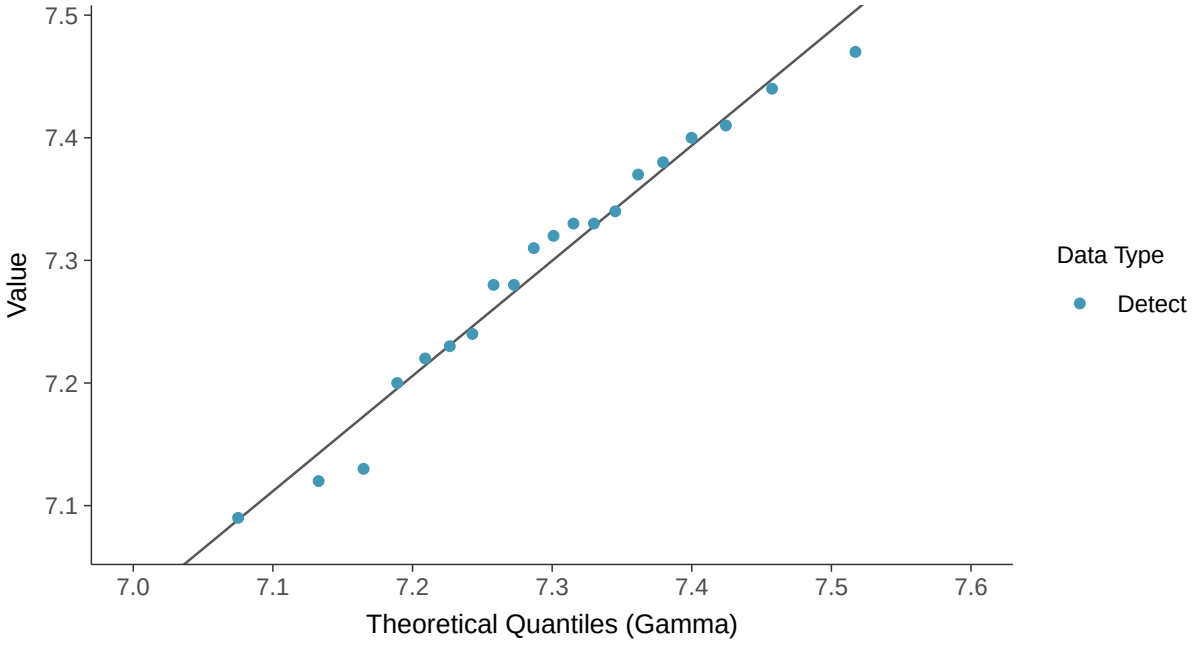
Lognormal Q-Q plot

pH (field), MW-11 (su)



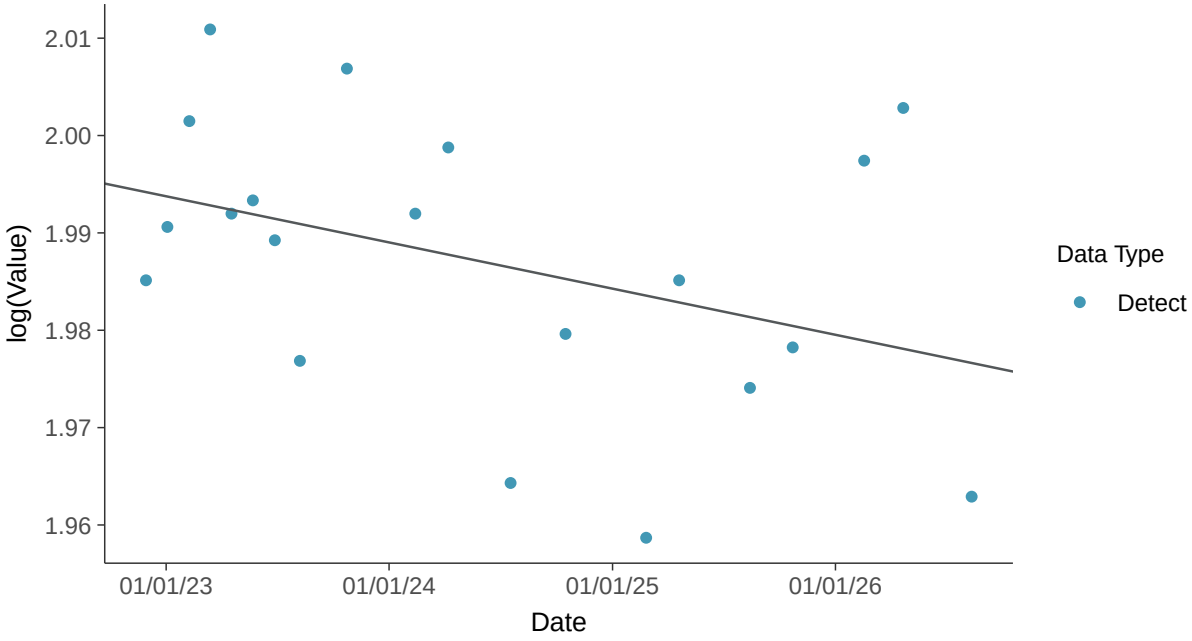
Gamma Q-Q plot

pH (field), MW-11 (su)



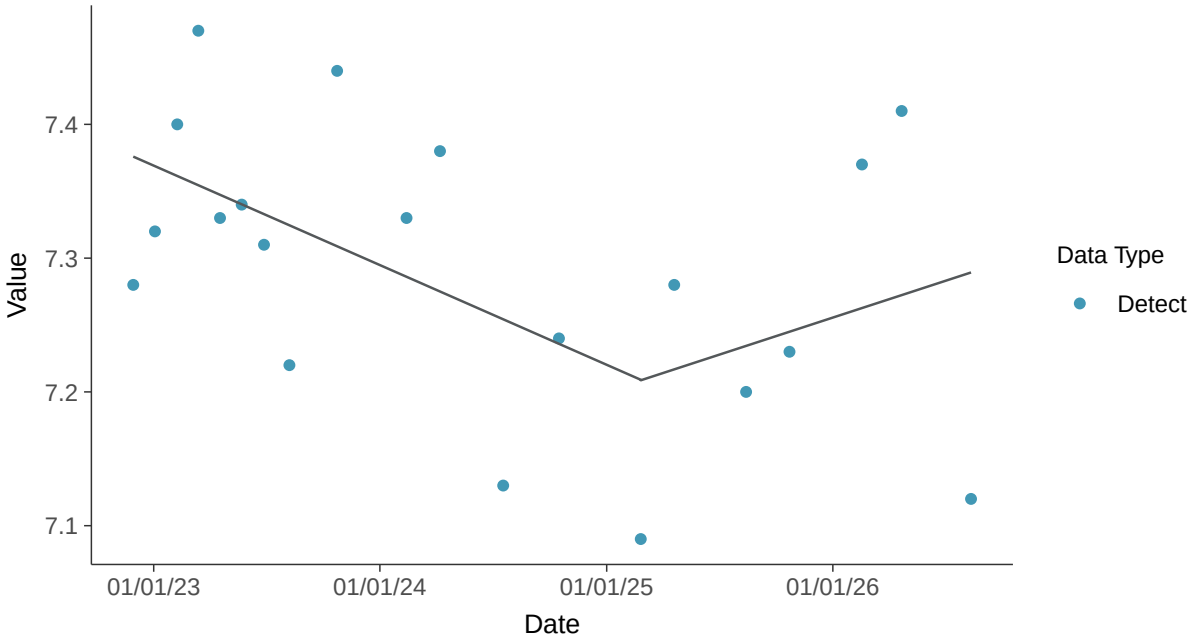
Trend Regression: Lognormal MLE

pH (field), MW-11 (su)



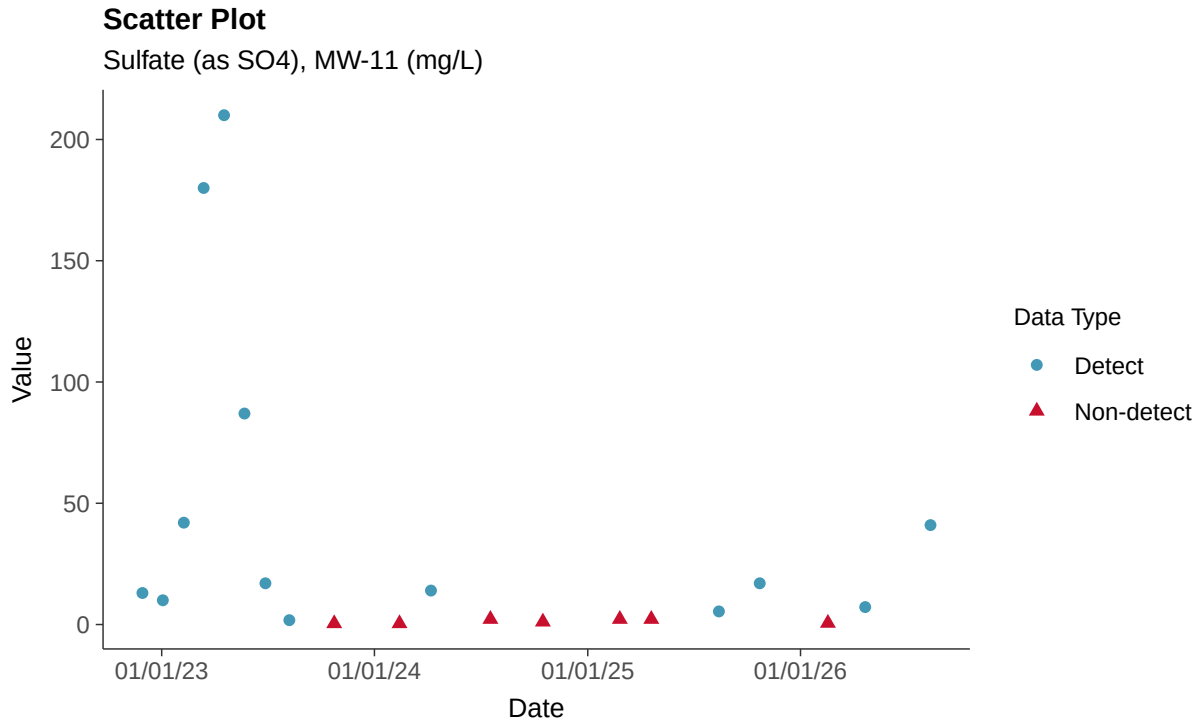
Trend Regression: Piecewise Linear-Linear

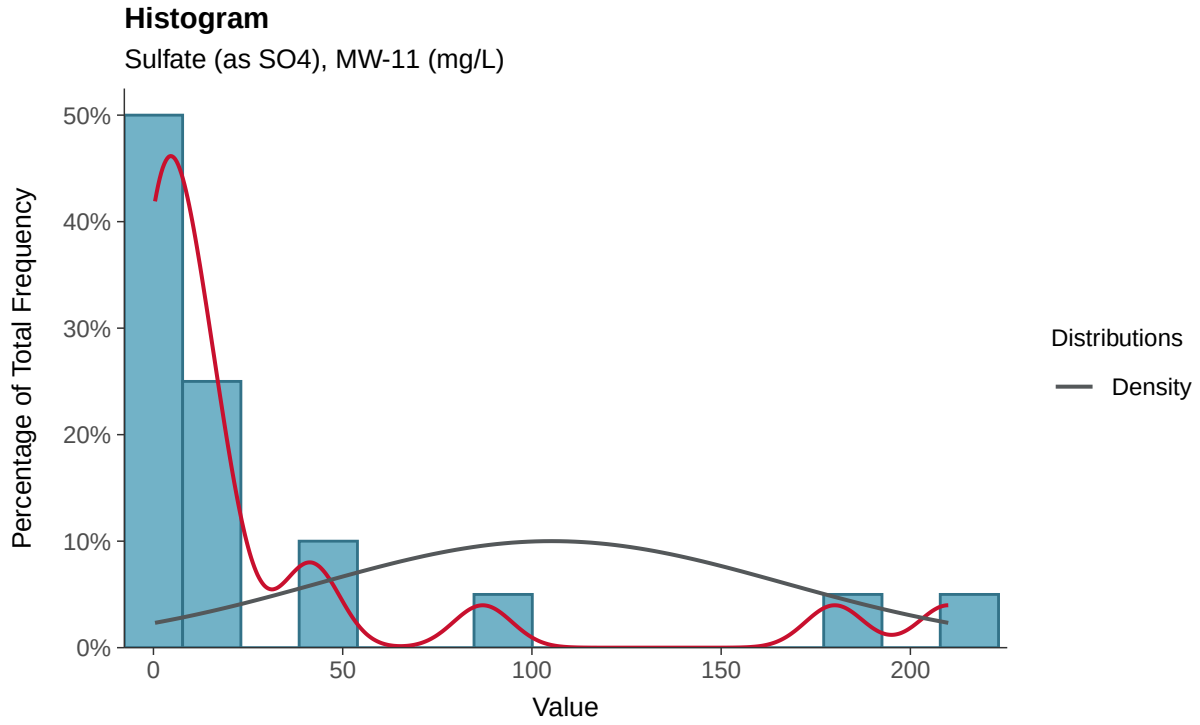
pH (field), MW-11 (su)



Appendix III: Sulfate (as SO4), MW-11

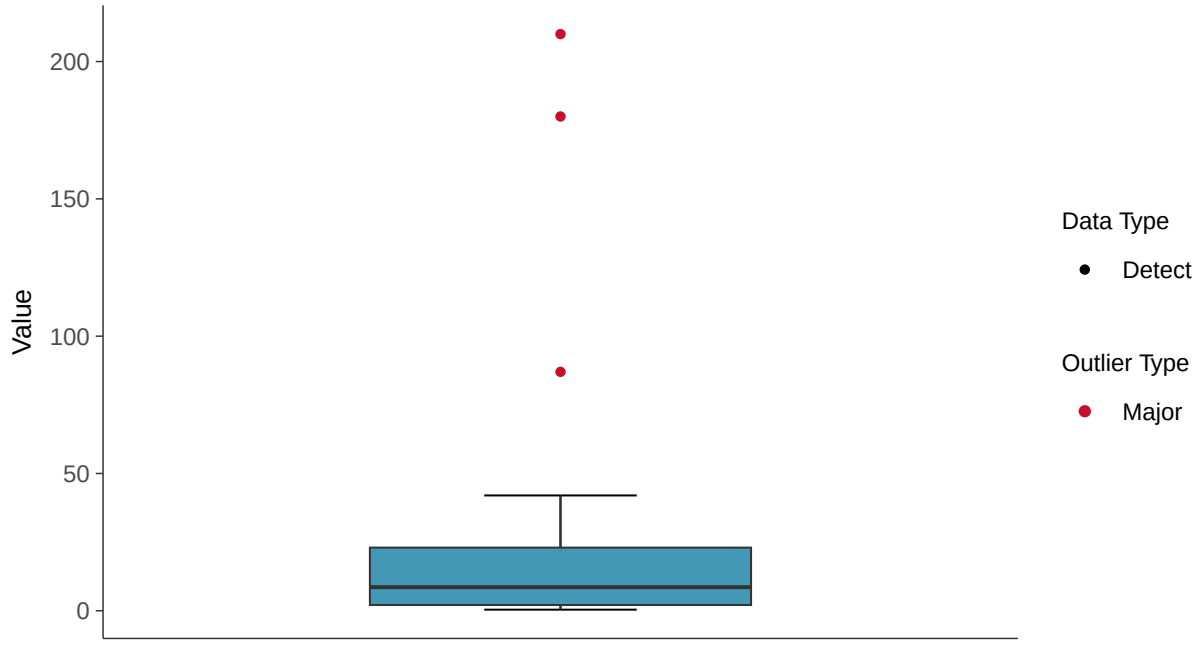
ID: 21_2_3_124





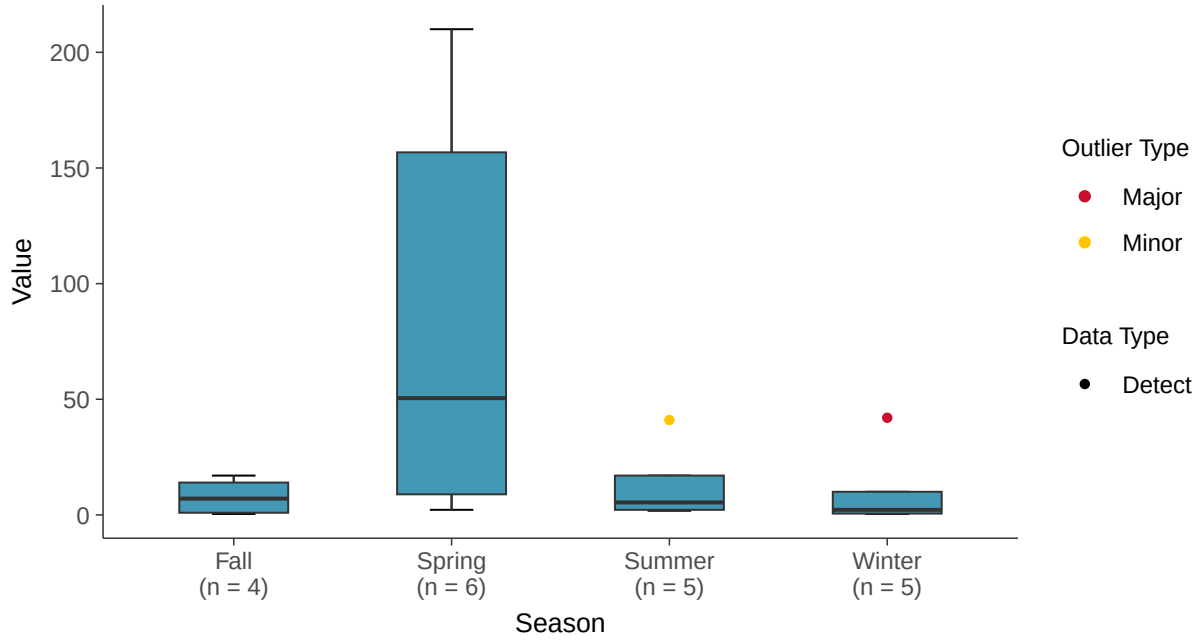
Boxplot

Sulfate (as SO4), MW-11 (mg/L)



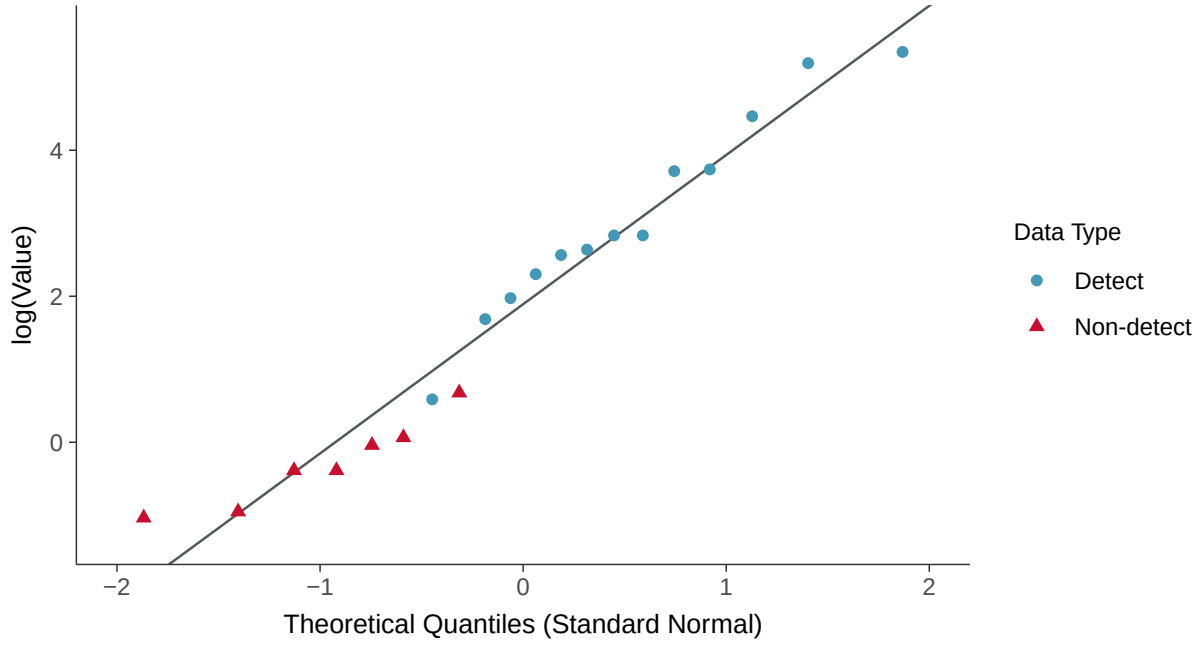
Boxplot by Season

Sulfate (as SO4), MW-11 (mg/L)



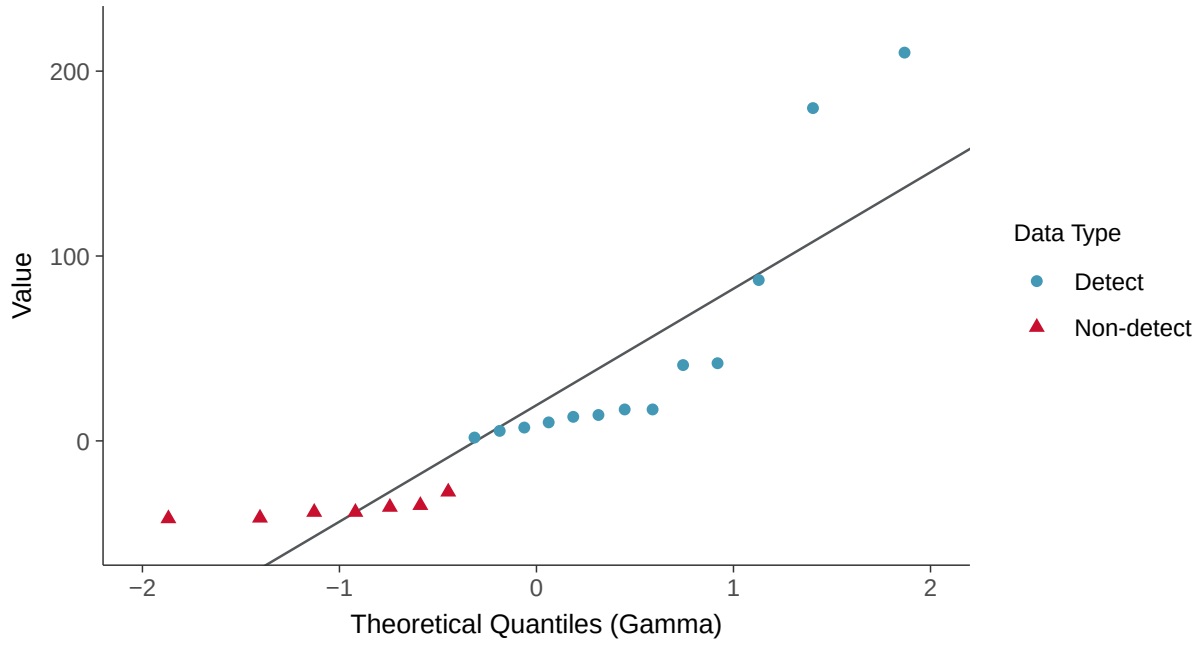
Lognormal Q-Q plot using ROS Imputed Estimates

Sulfate (as SO4), MW-11 (mg/L)



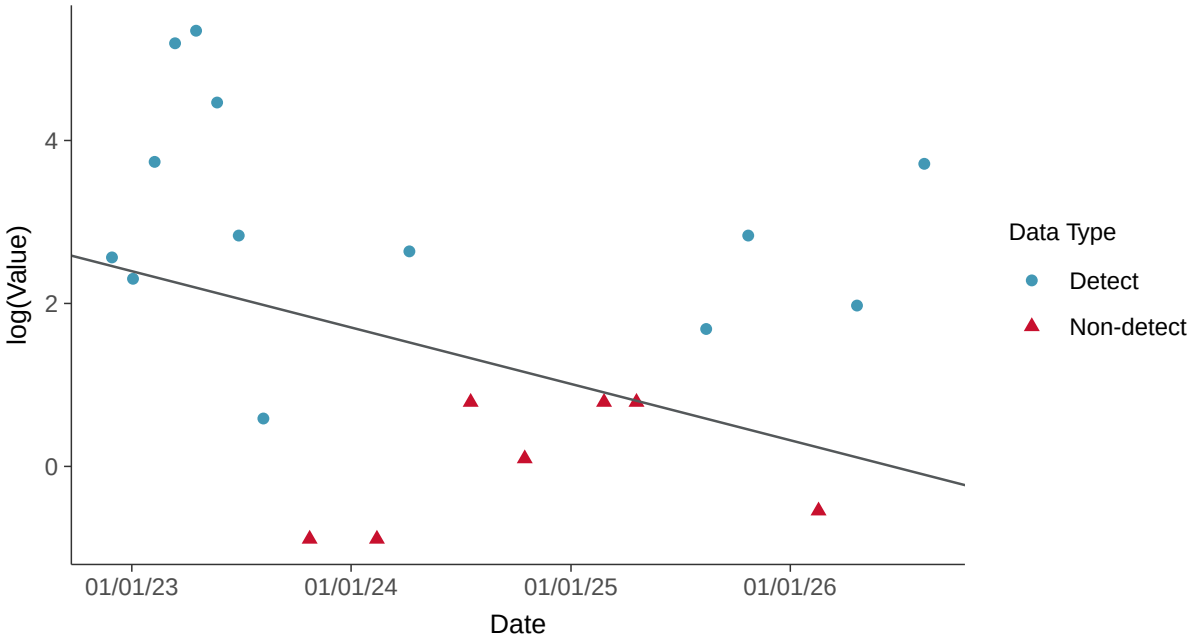
Gamma Q-Q plot using ROS Imputed Estimates

Sulfate (as SO4), MW-11 (mg/L)



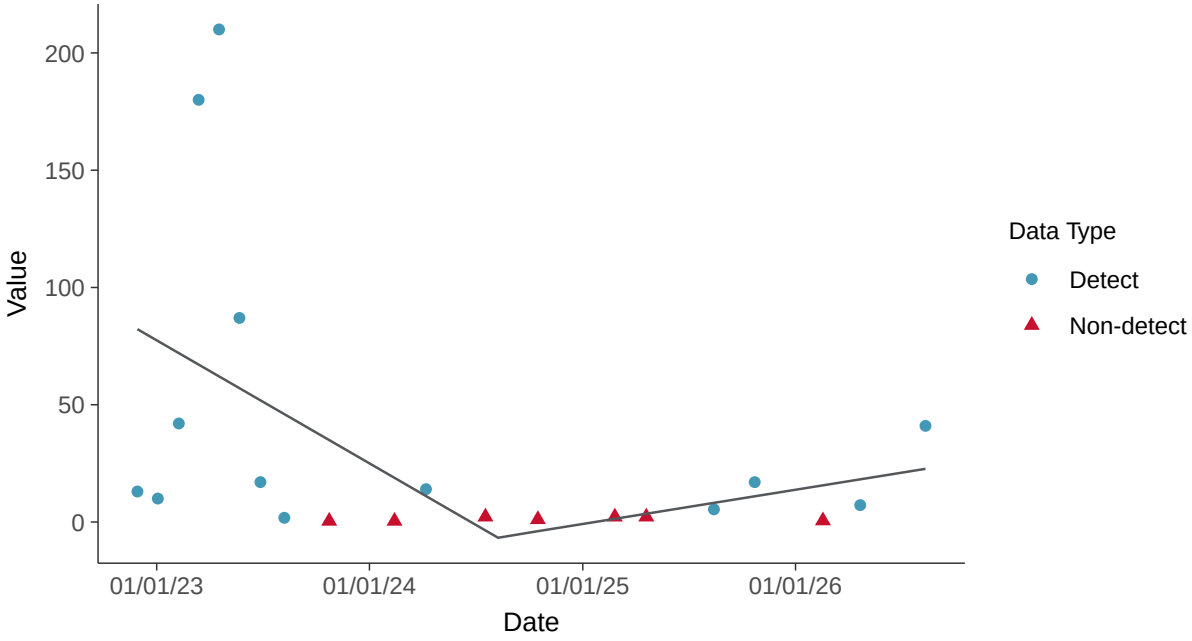
Trend Regression: Lognormal MLE

Sulfate (as SO4), MW-11 (mg/L)



Trend Regression: Piecewise Linear-Linear

Sulfate (as SO4), MW-11 (mg/L)

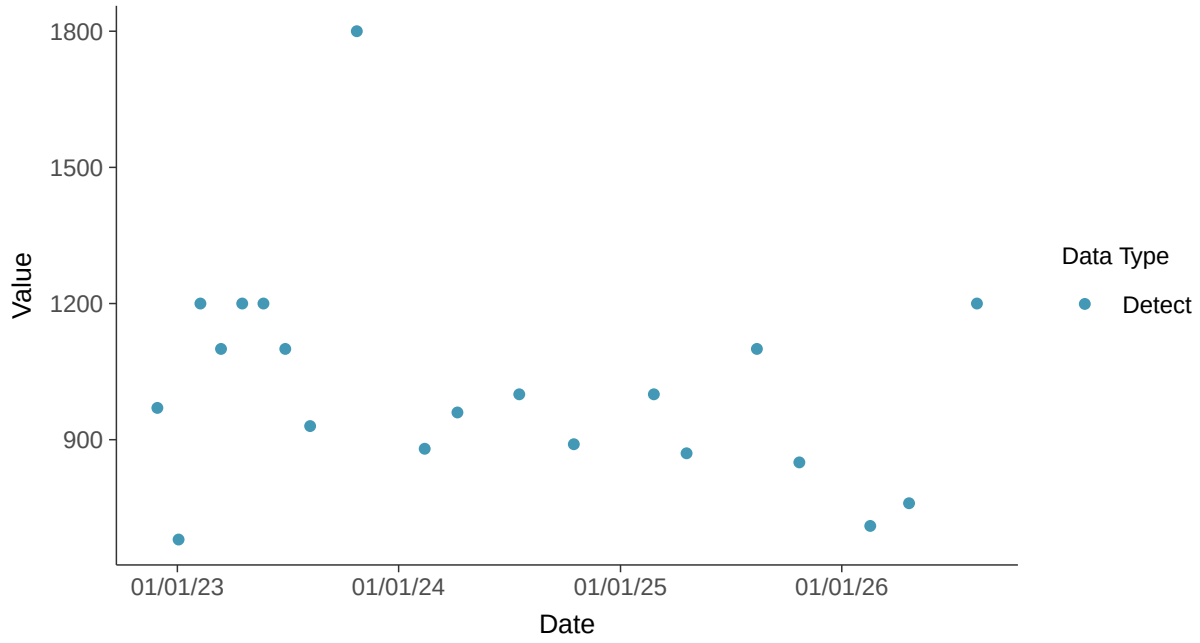


Appendix III: Total Dissolved Solids, MW-11

ID: 21_2_3_126

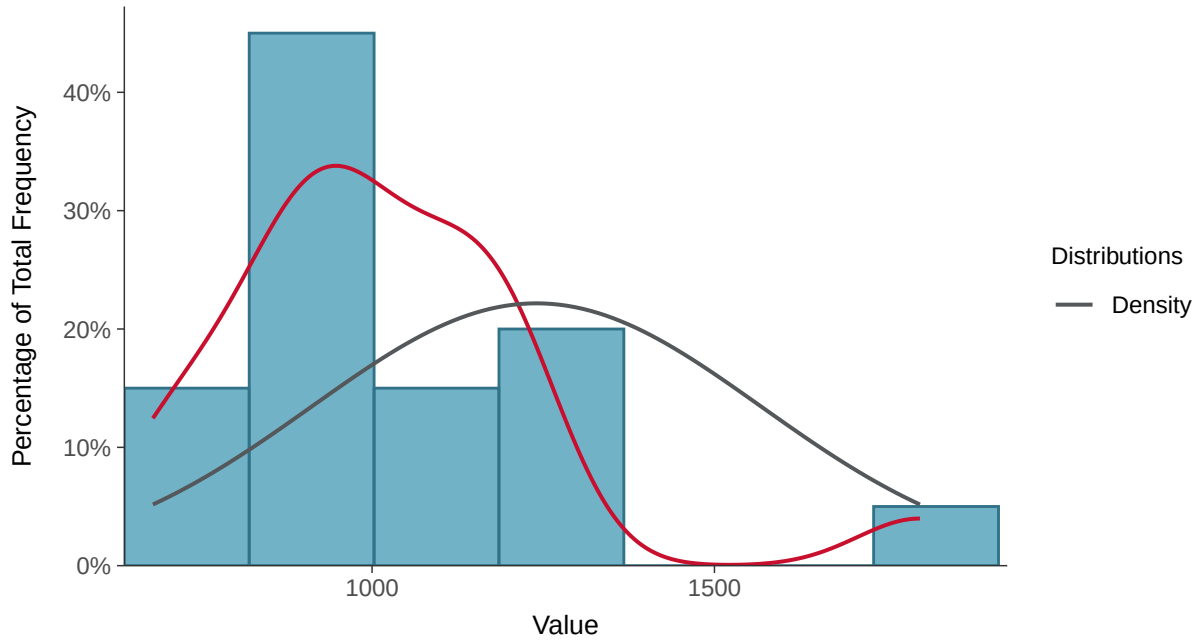
Scatter Plot

Total Dissolved Solids, MW-11 (mg/L)



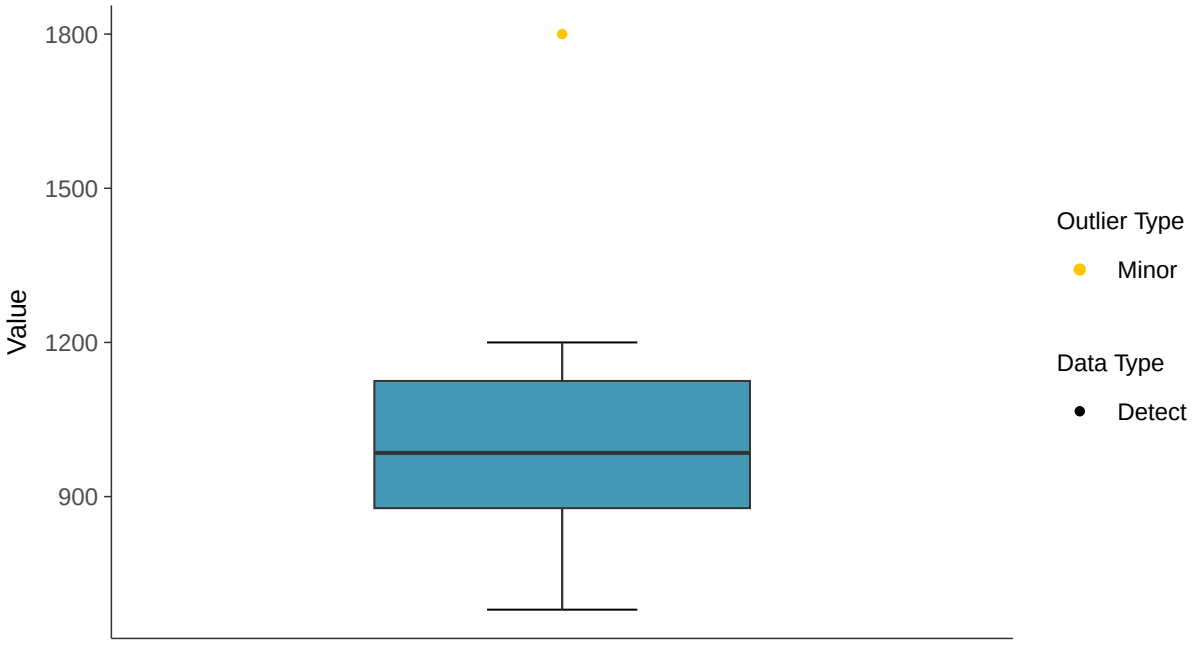
Histogram

Total Dissolved Solids, MW-11 (mg/L)



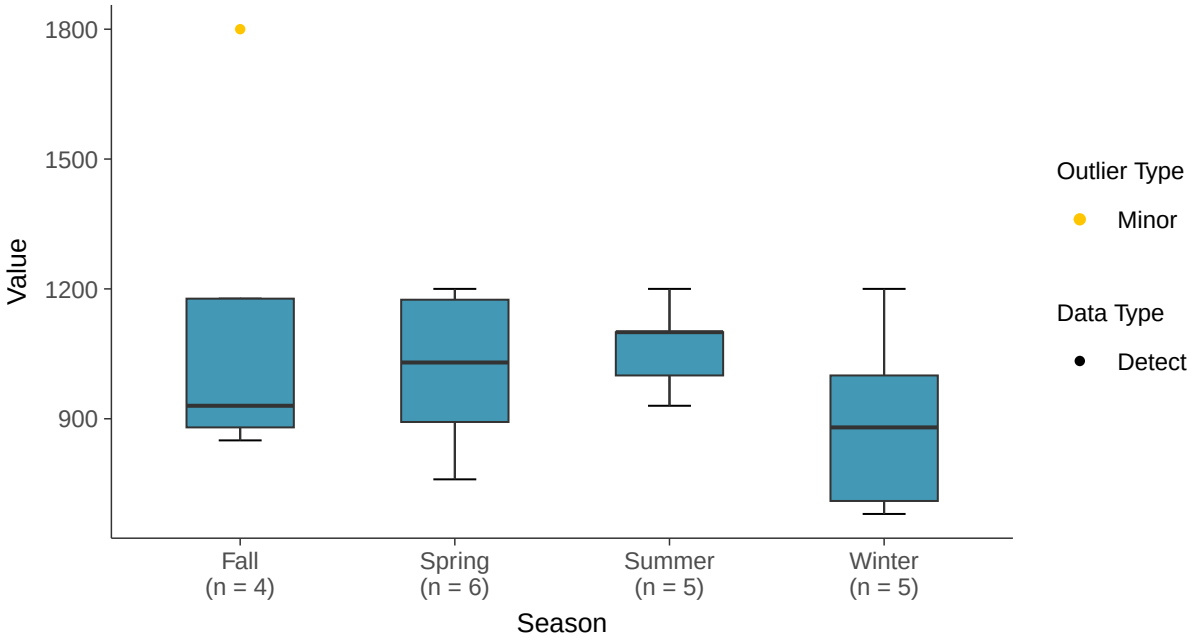
Boxplot

Total Dissolved Solids, MW-11 (mg/L)



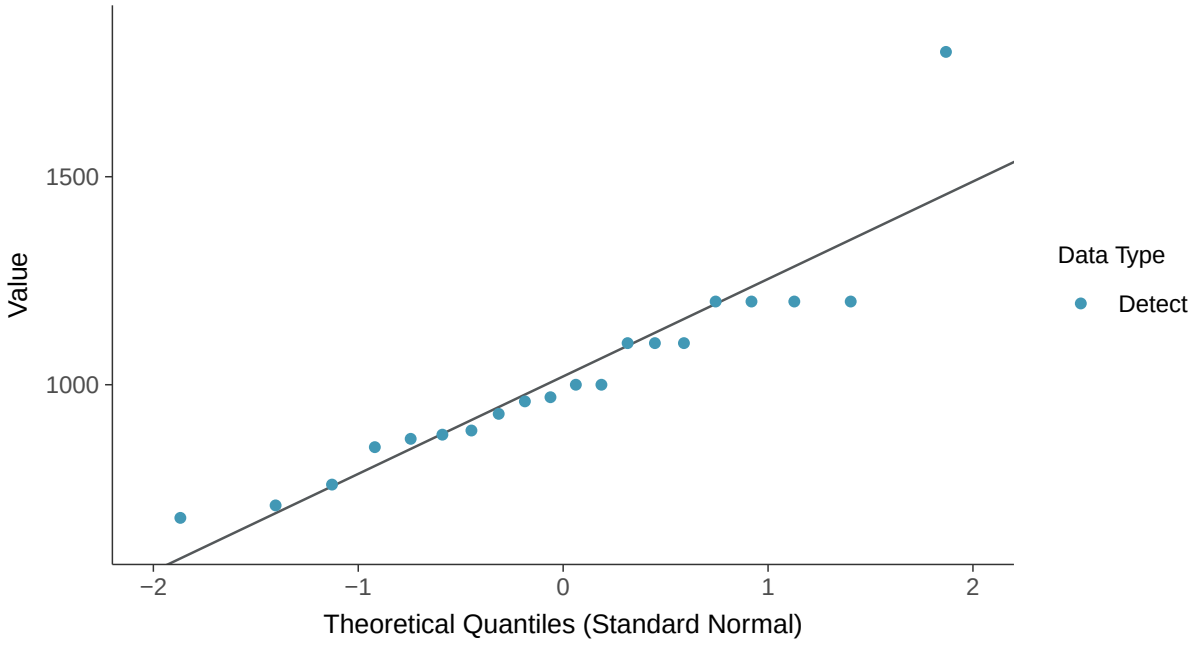
Boxplot by Season

Total Dissolved Solids, MW-11 (mg/L)



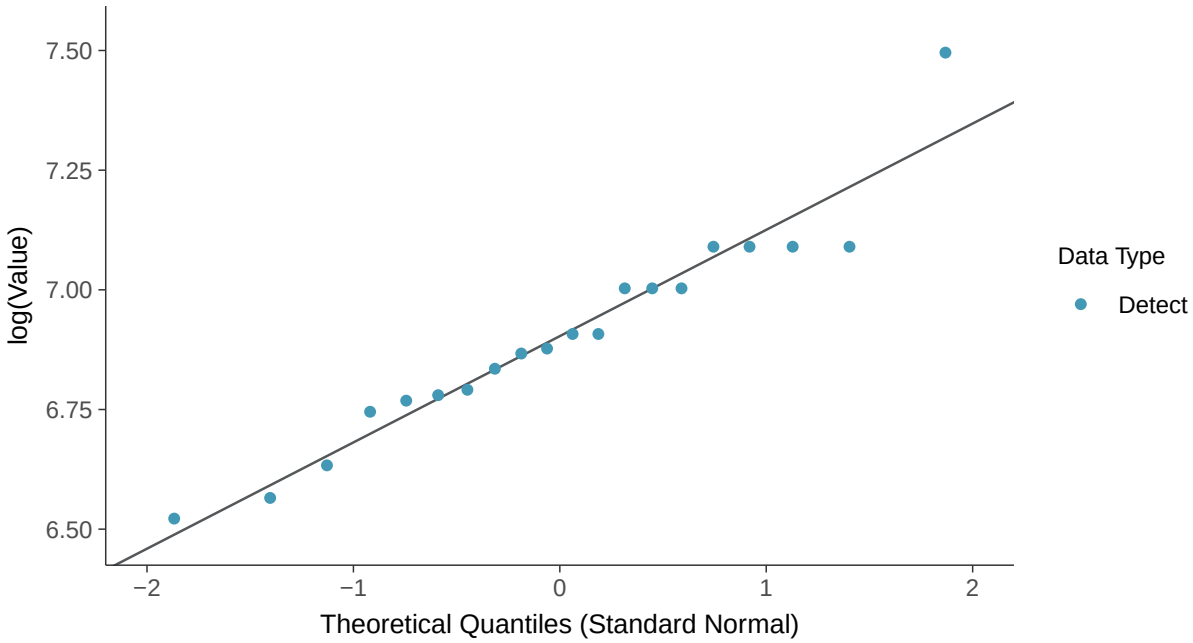
Normal Q-Q plot

Total Dissolved Solids, MW-11 (mg/L)



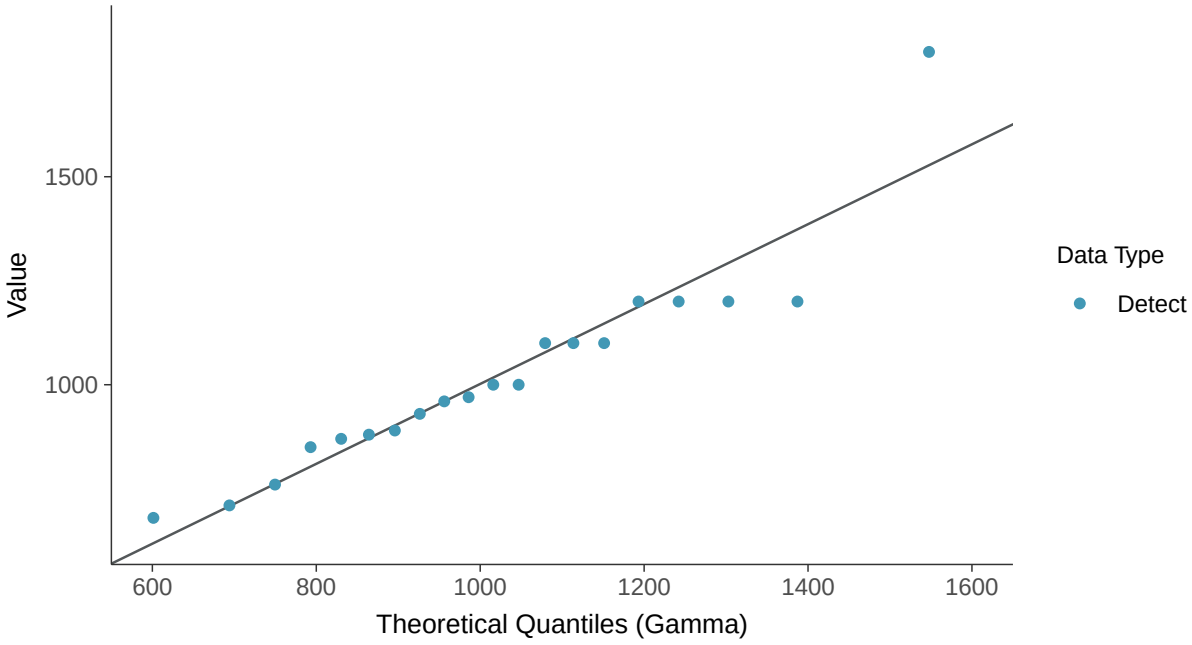
Lognormal Q-Q plot

Total Dissolved Solids, MW-11 (mg/L)



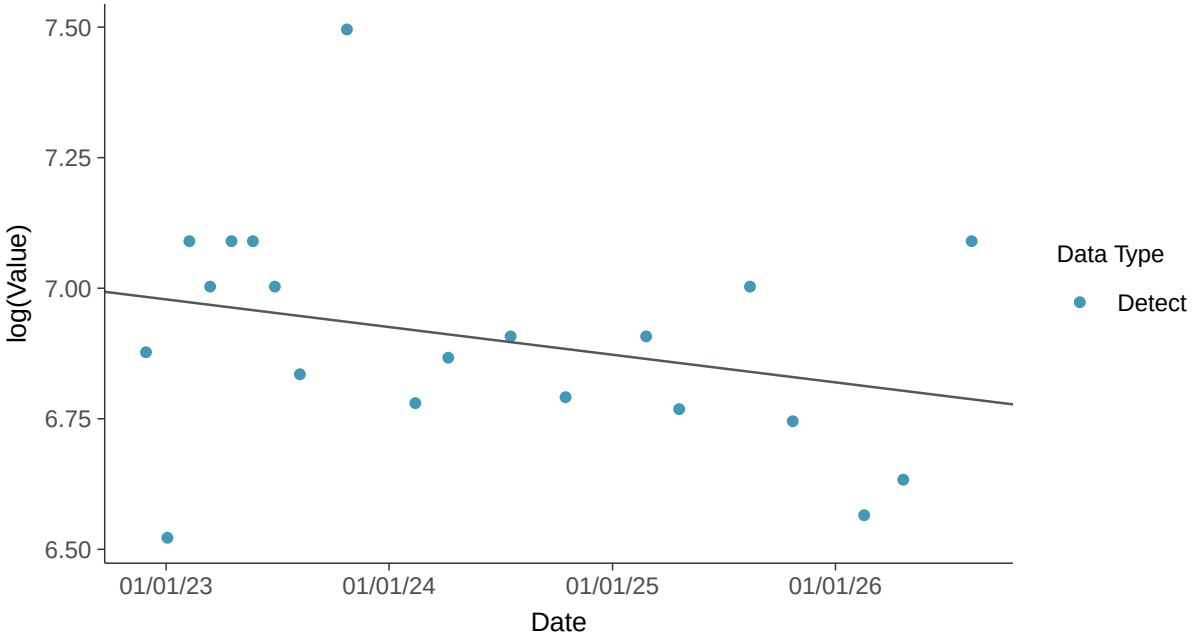
Gamma Q-Q plot

Total Dissolved Solids, MW-11 (mg/L)



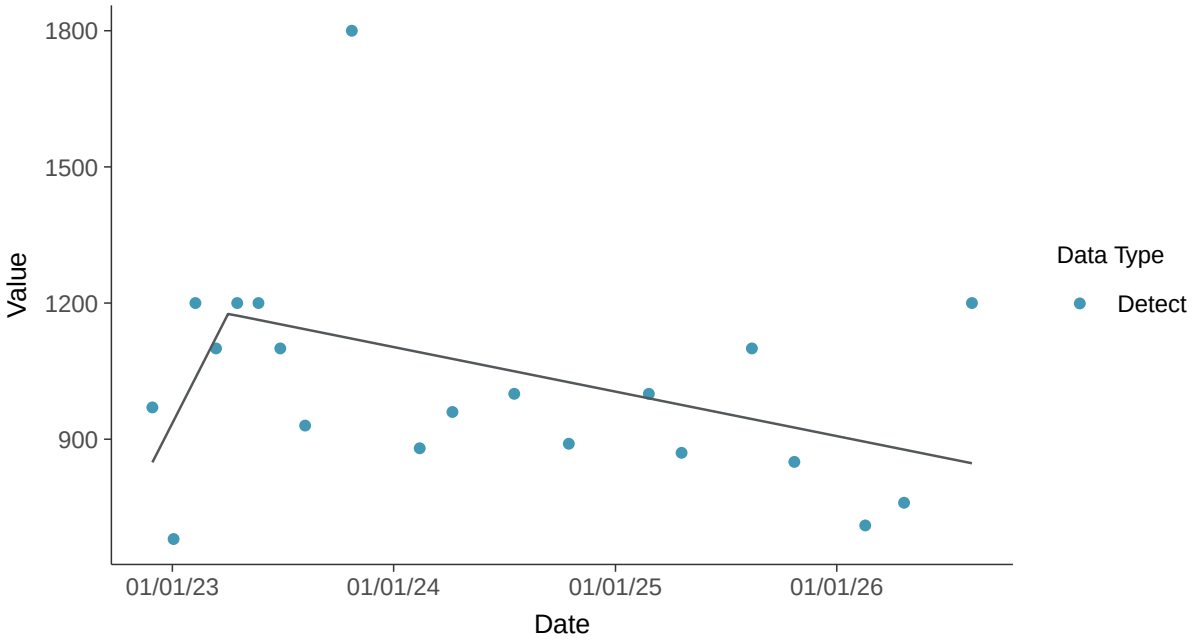
Trend Regression: Lognormal MLE

Total Dissolved Solids, MW-11 (mg/L)



Trend Regression: Piecewise Linear-Linear

Total Dissolved Solids, MW-11 (mg/L)

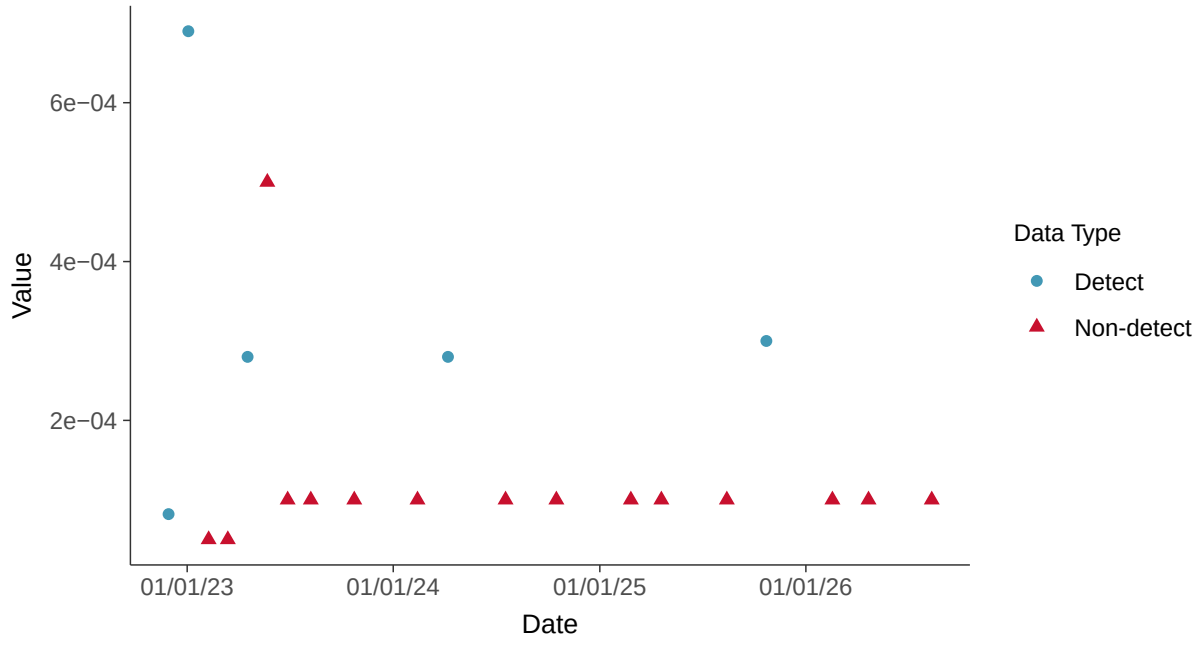


Appendix IV: Antimony, MW-11

ID: 21_2_4_101

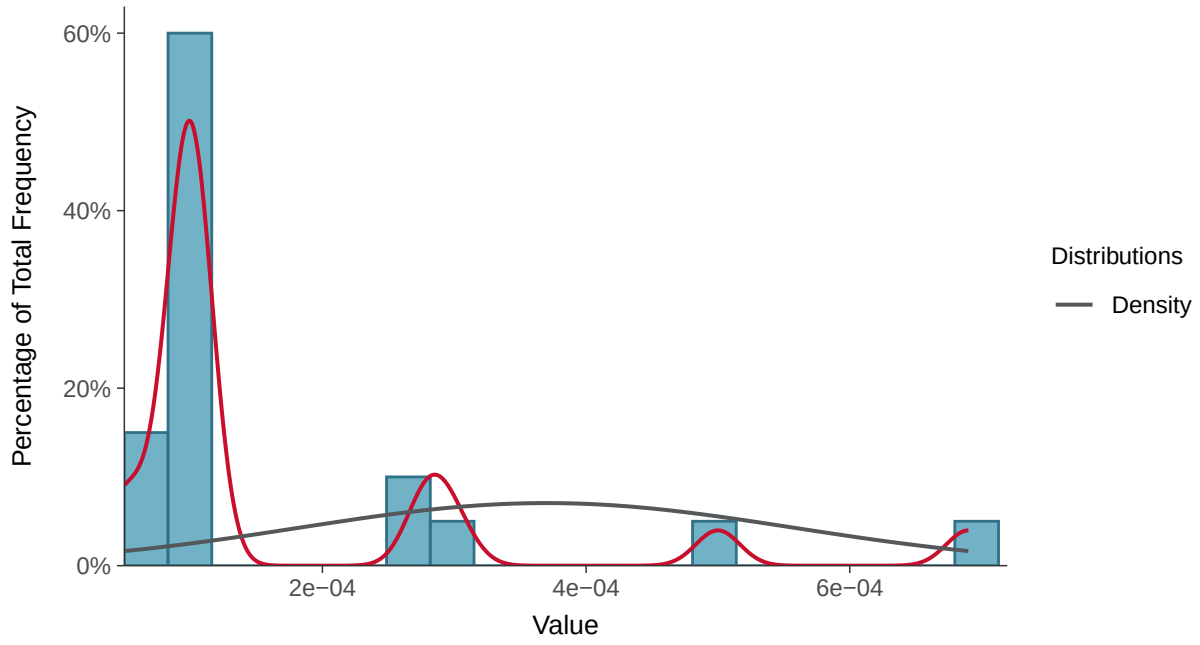
Scatter Plot

Antimony, MW-11 (mg/L)



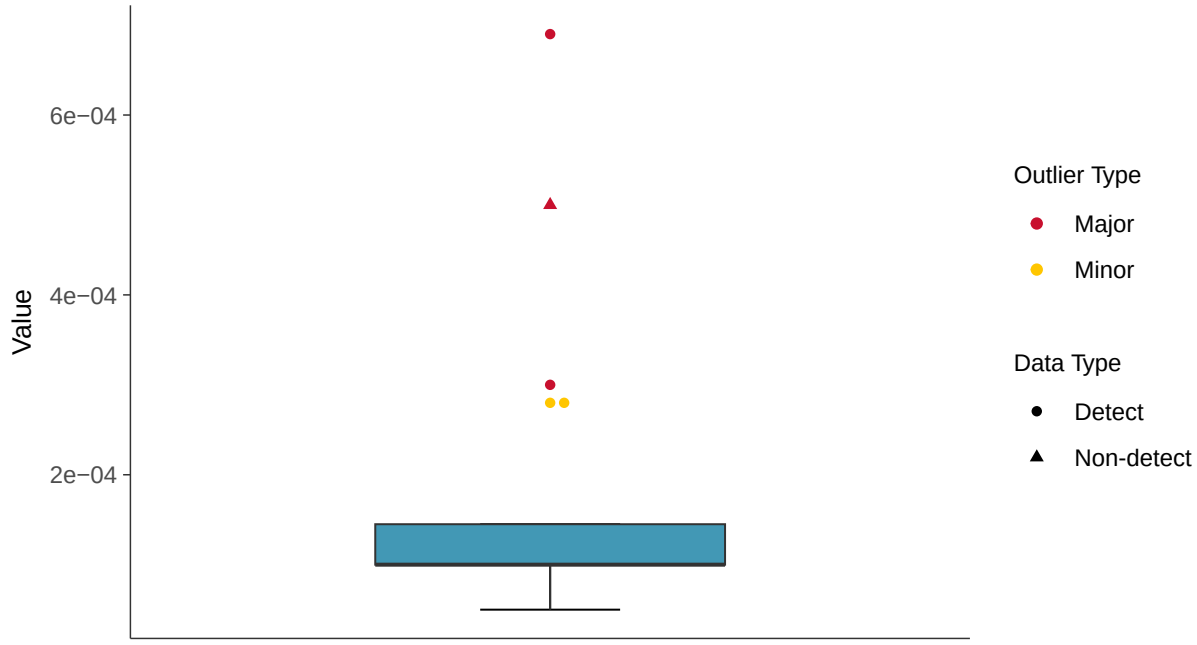
Histogram

Antimony, MW-11 (mg/L)



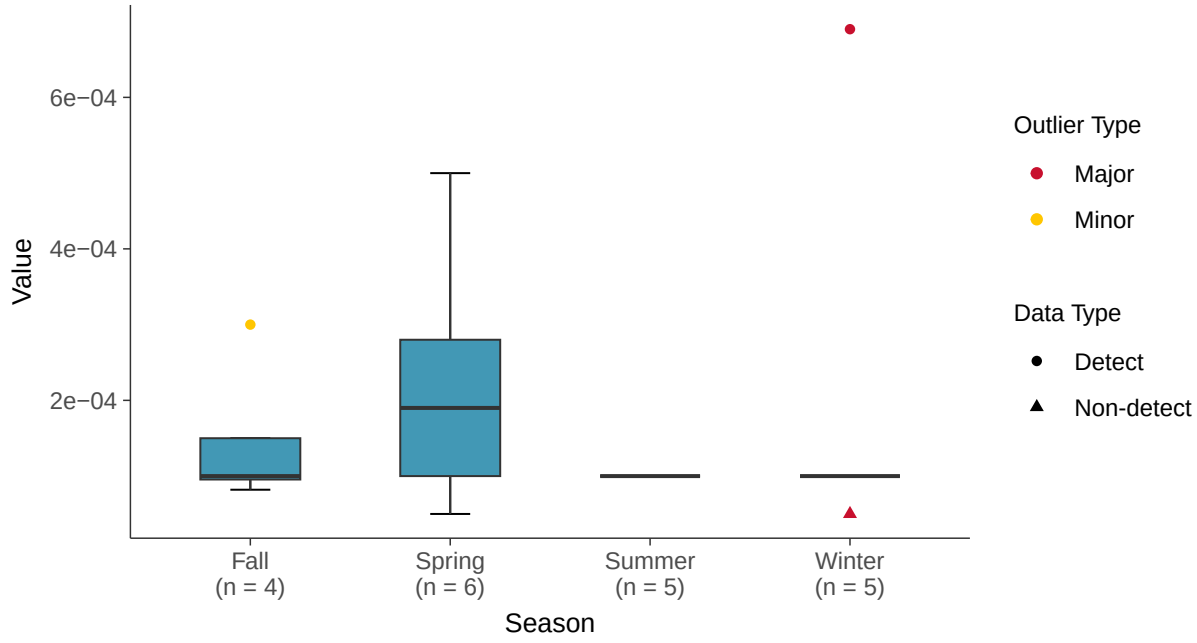
Boxplot

Antimony, MW-11 (mg/L)



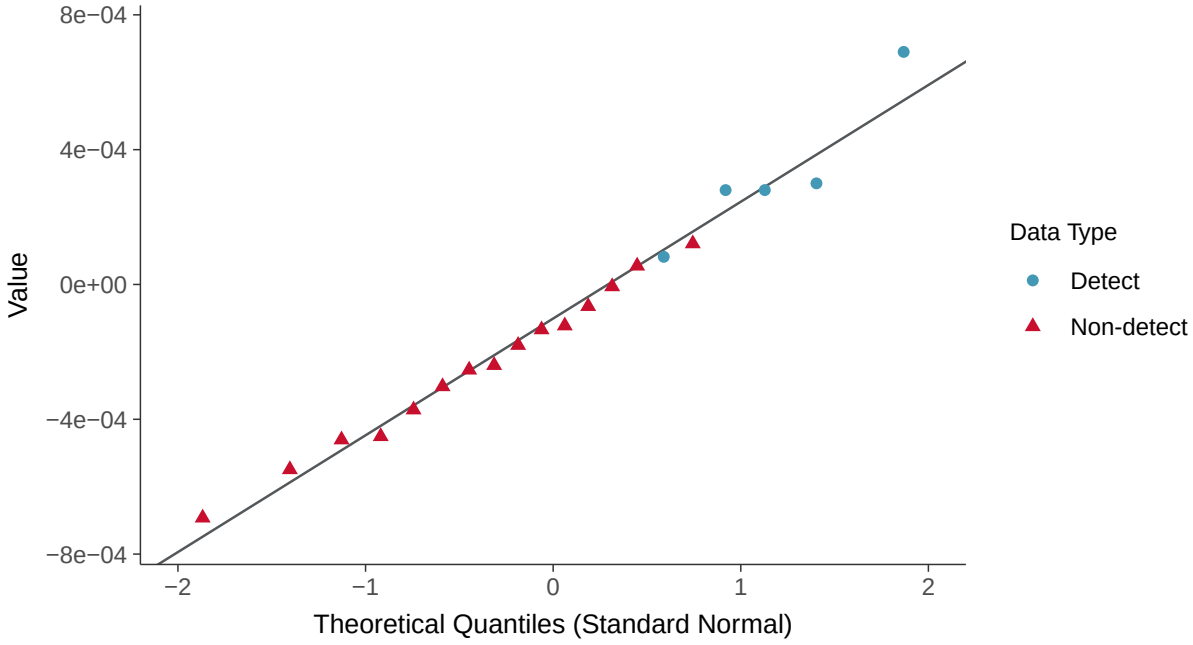
Boxplot by Season

Antimony, MW-11 (mg/L)



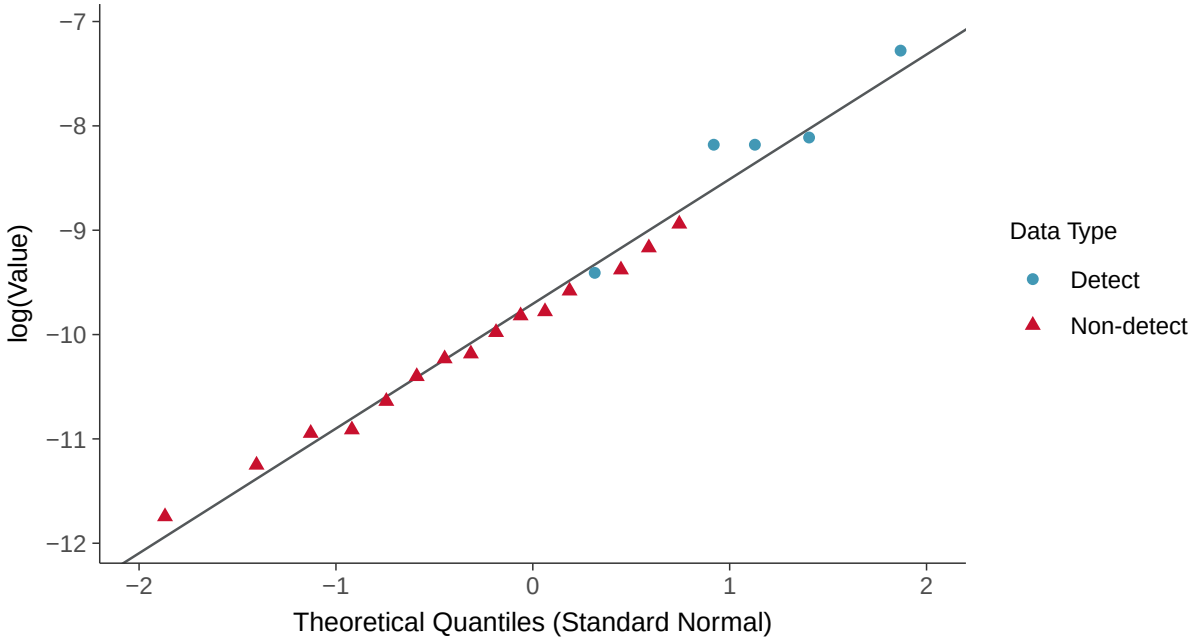
Normal Q-Q plot using ROS Imputed Estimates

Antimony, MW-11 (mg/L)



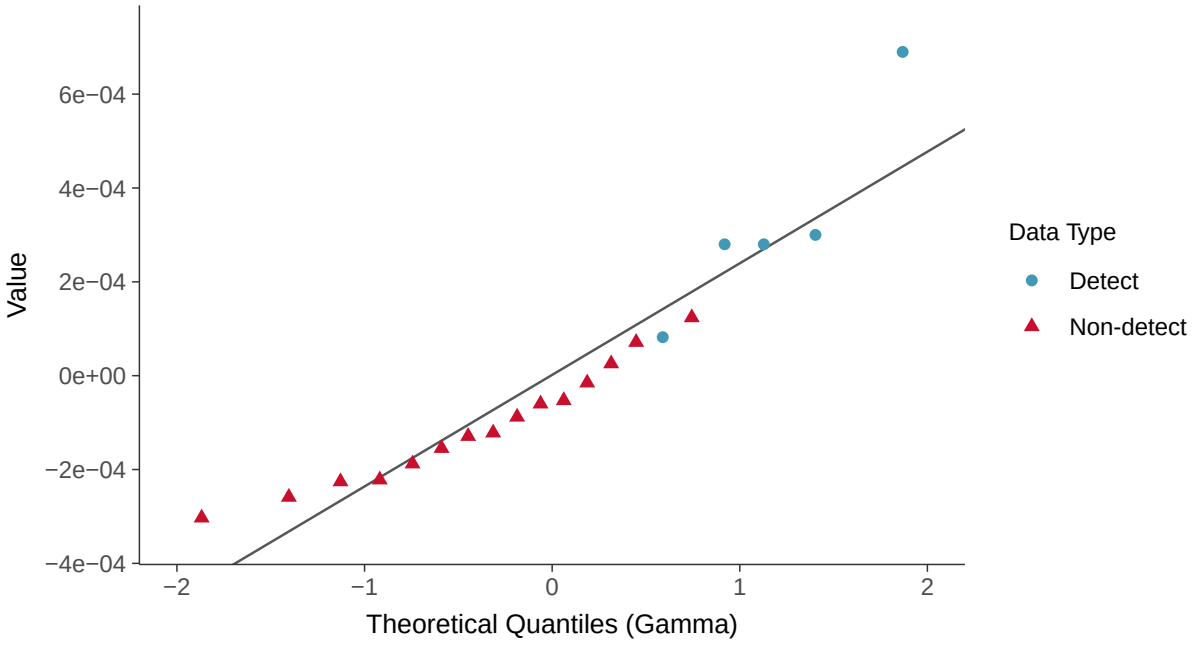
Lognormal Q-Q plot using ROS Imputed Estimates

Antimony, MW-11 (mg/L)



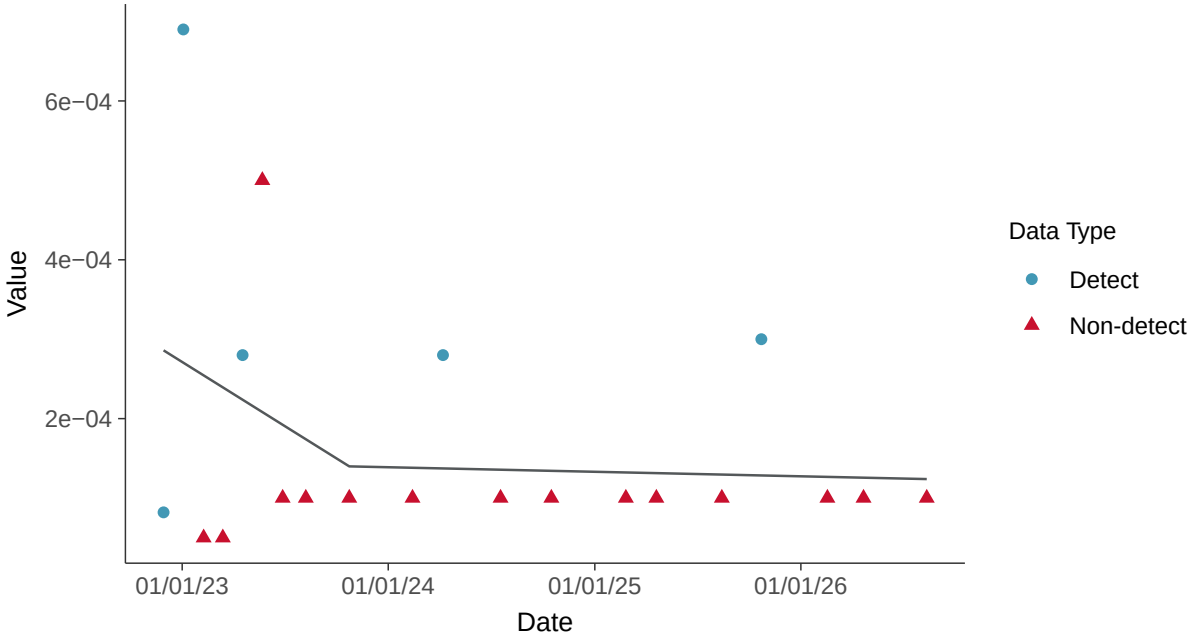
Gamma Q-Q plot using ROS Imputed Estimates

Antimony, MW-11 (mg/L)



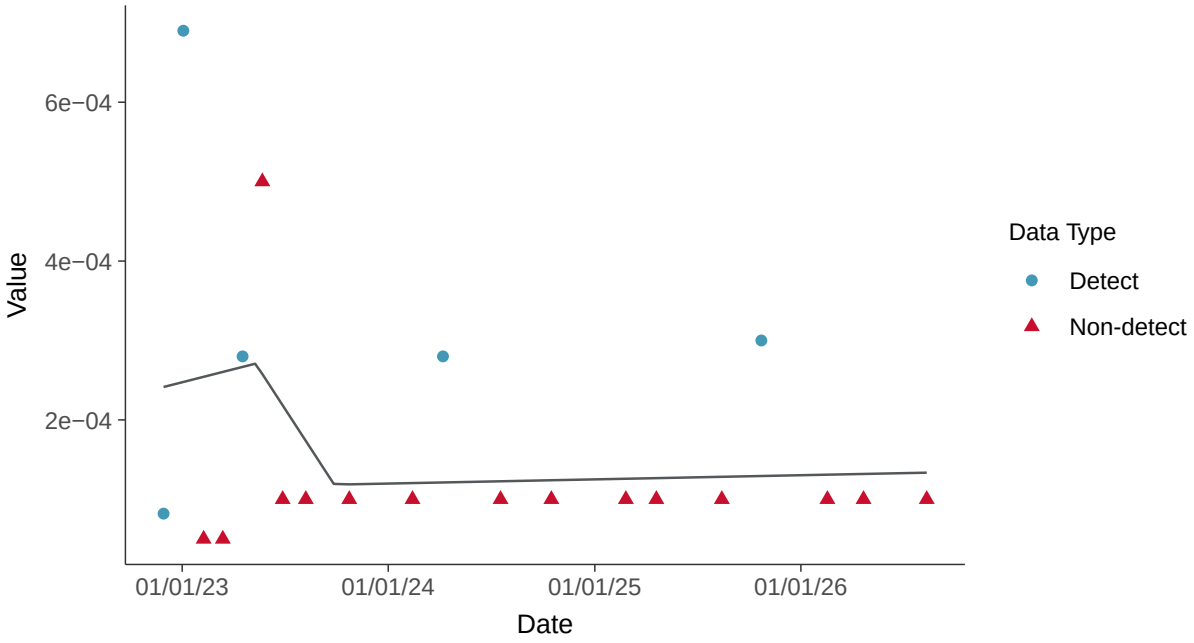
Trend Regression: Piecewise Linear-Linear

Antimony, MW-11 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Antimony, MW-11 (mg/L)

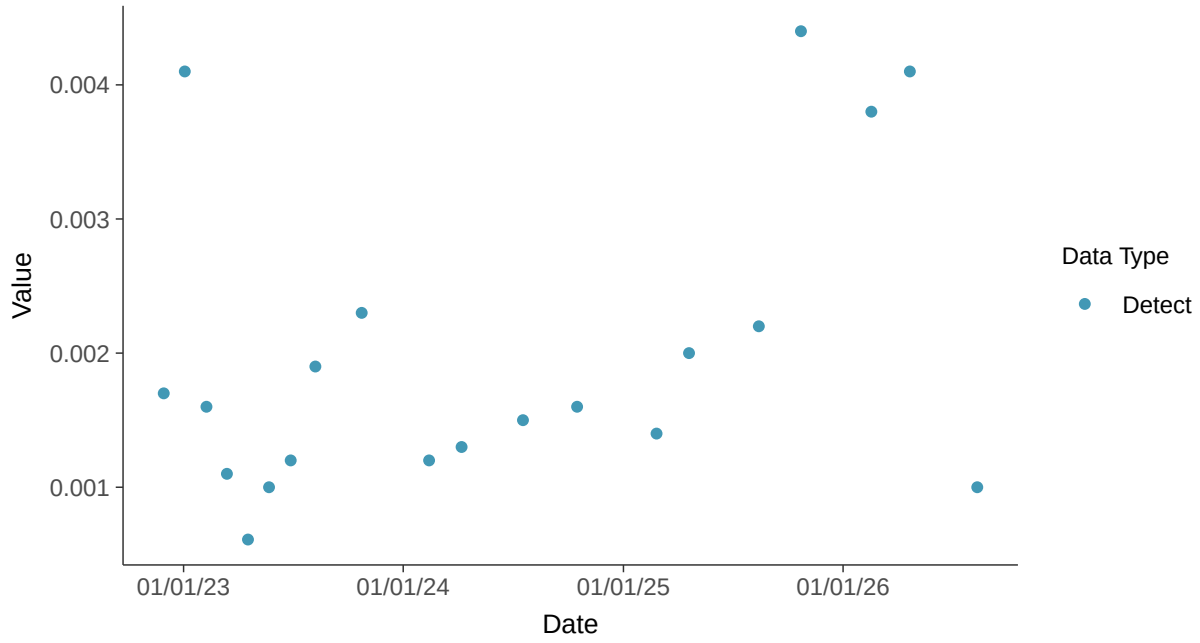


Appendix IV: Arsenic, MW-11

ID: 21_2_4_102

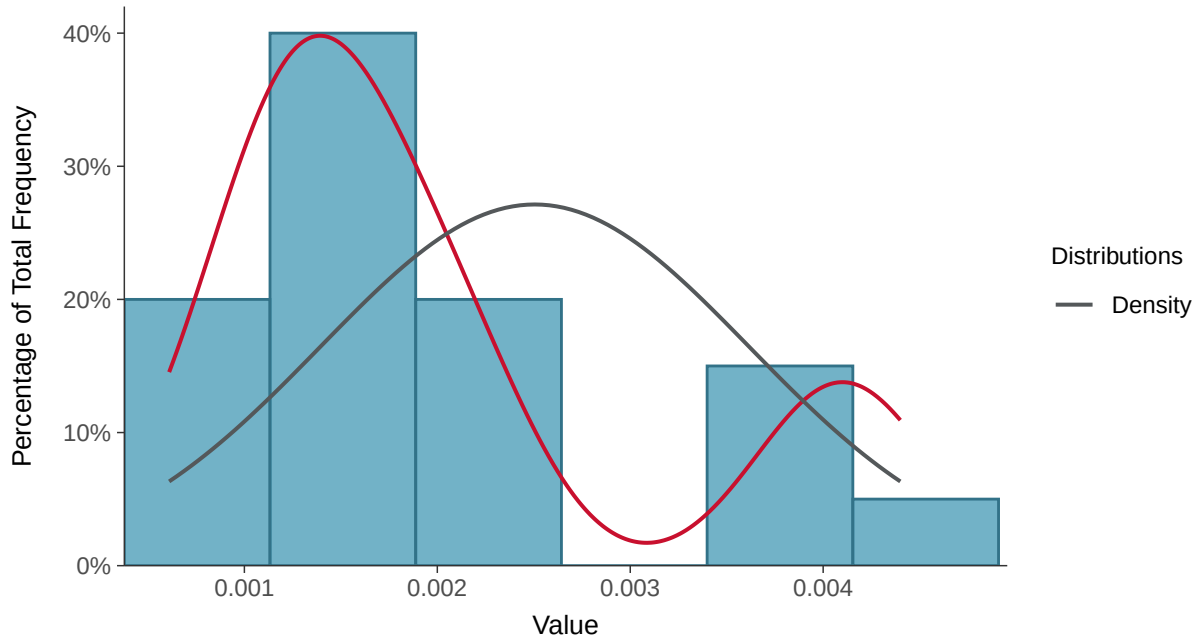
Scatter Plot

Arsenic, MW-11 (mg/L)



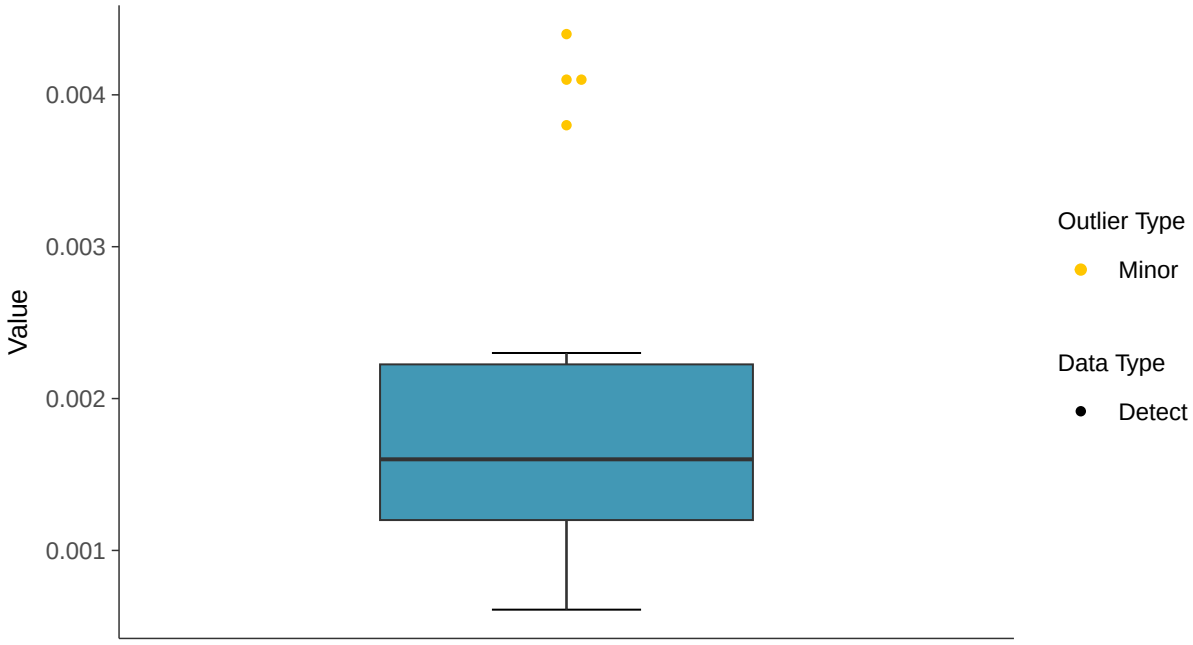
Histogram

Arsenic, MW-11 (mg/L)



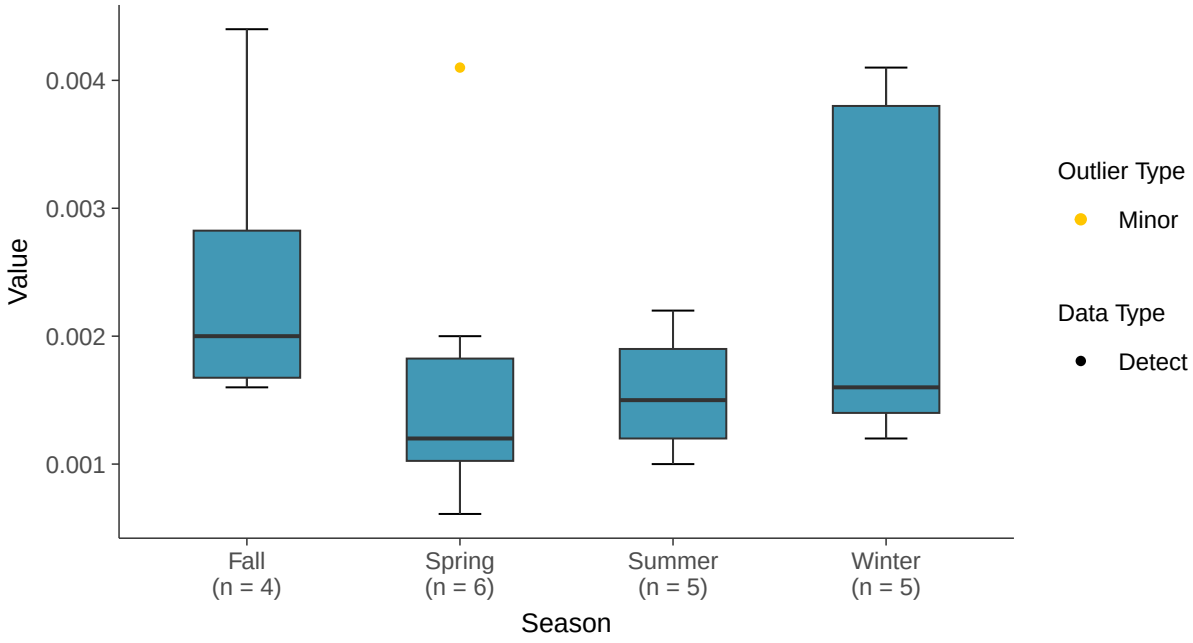
Boxplot

Arsenic, MW-11 (mg/L)



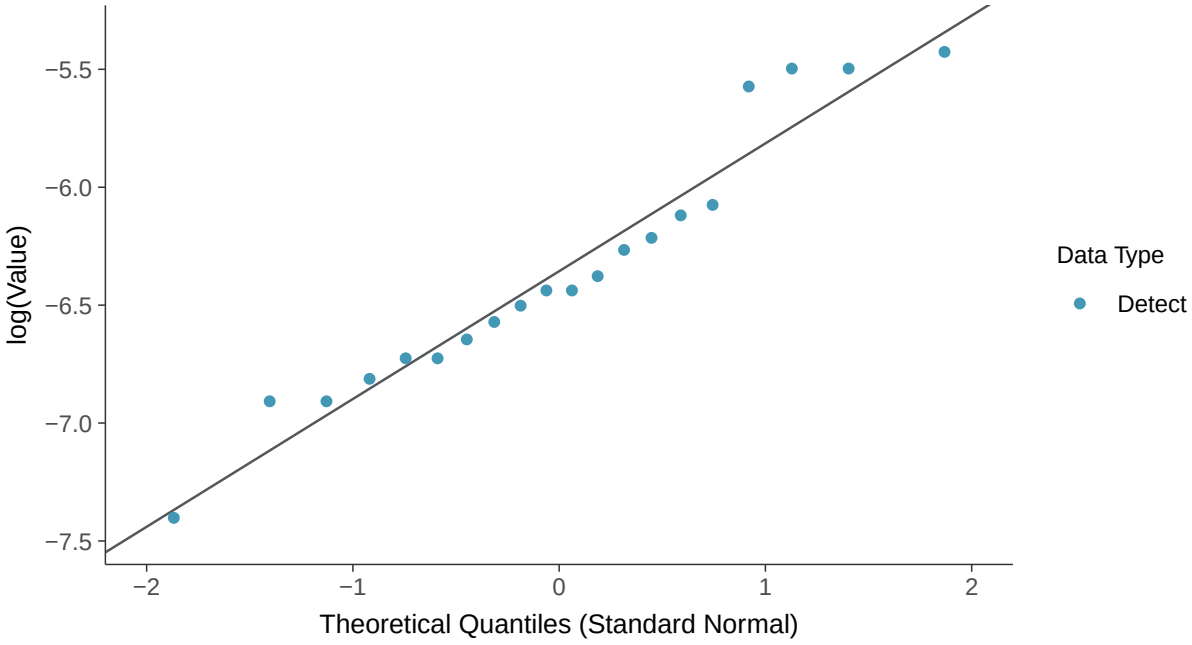
Boxplot by Season

Arsenic, MW-11 (mg/L)



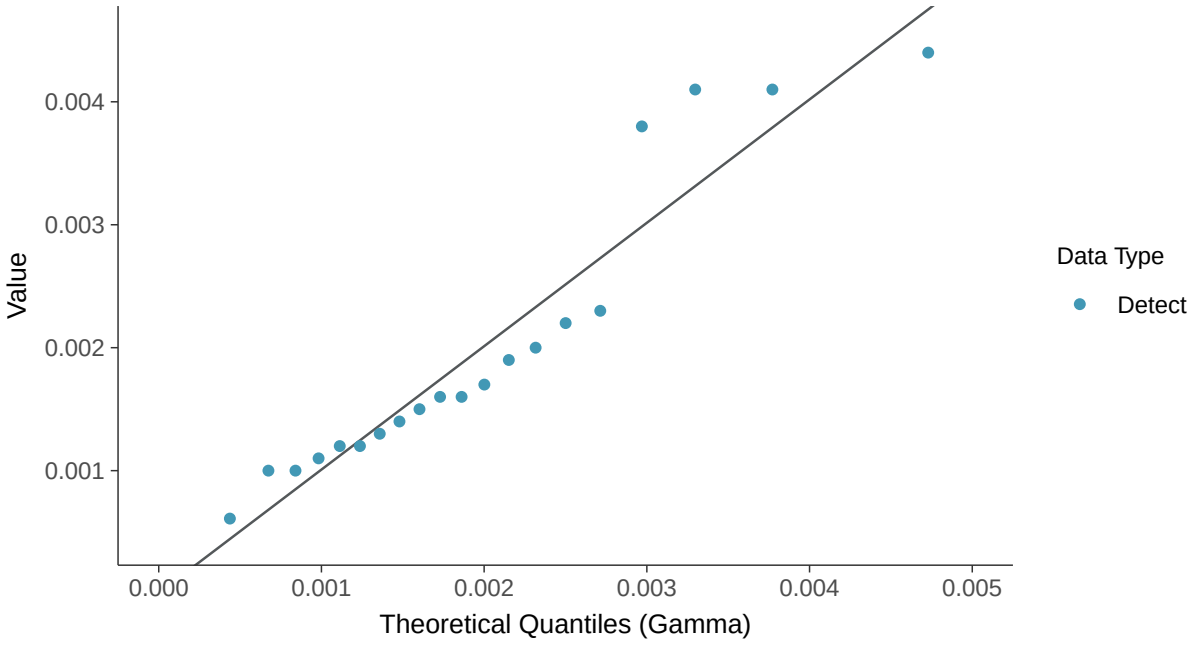
Lognormal Q-Q plot

Arsenic, MW-11 (mg/L)



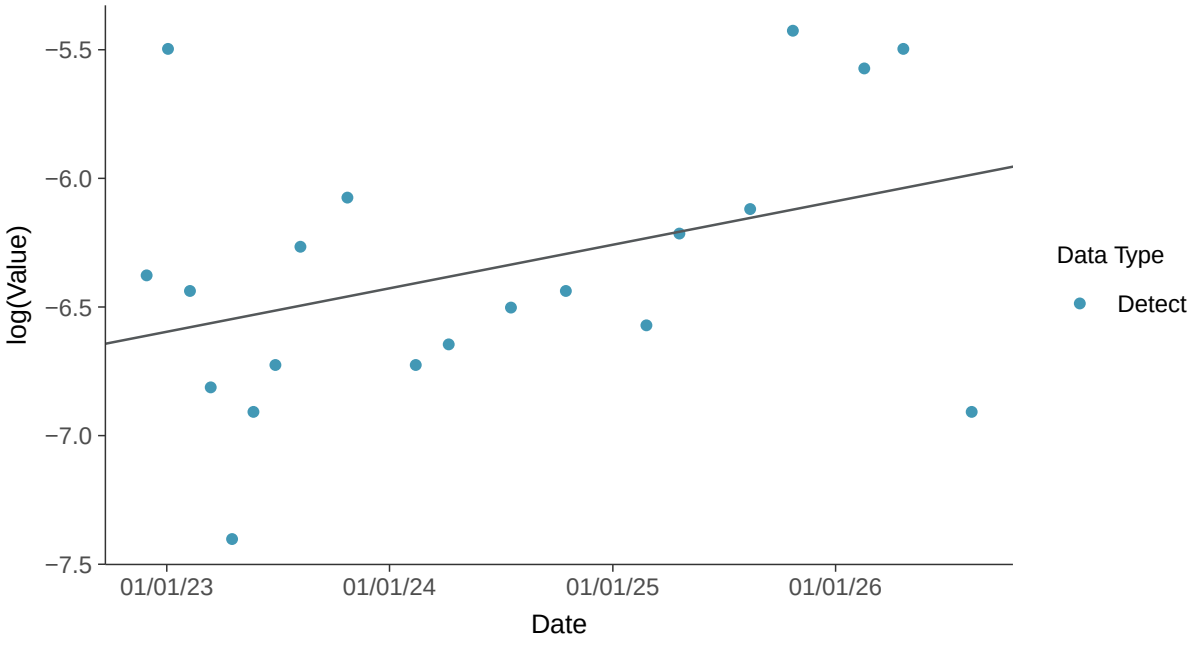
Gamma Q-Q plot

Arsenic, MW-11 (mg/L)



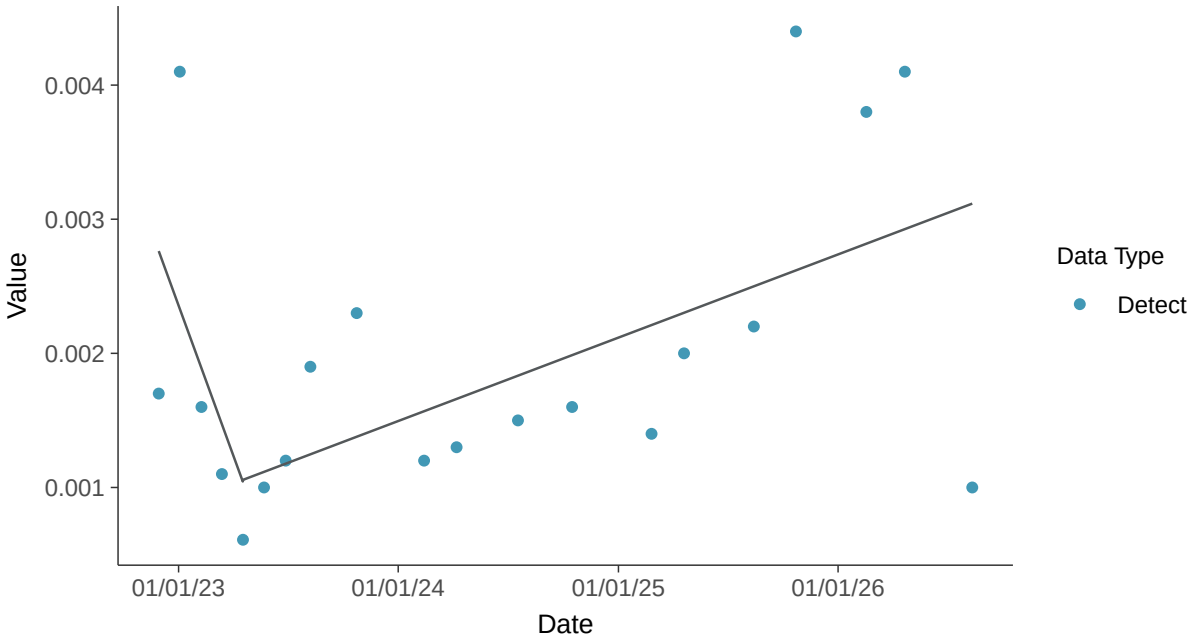
Trend Regression: Lognormal MLE

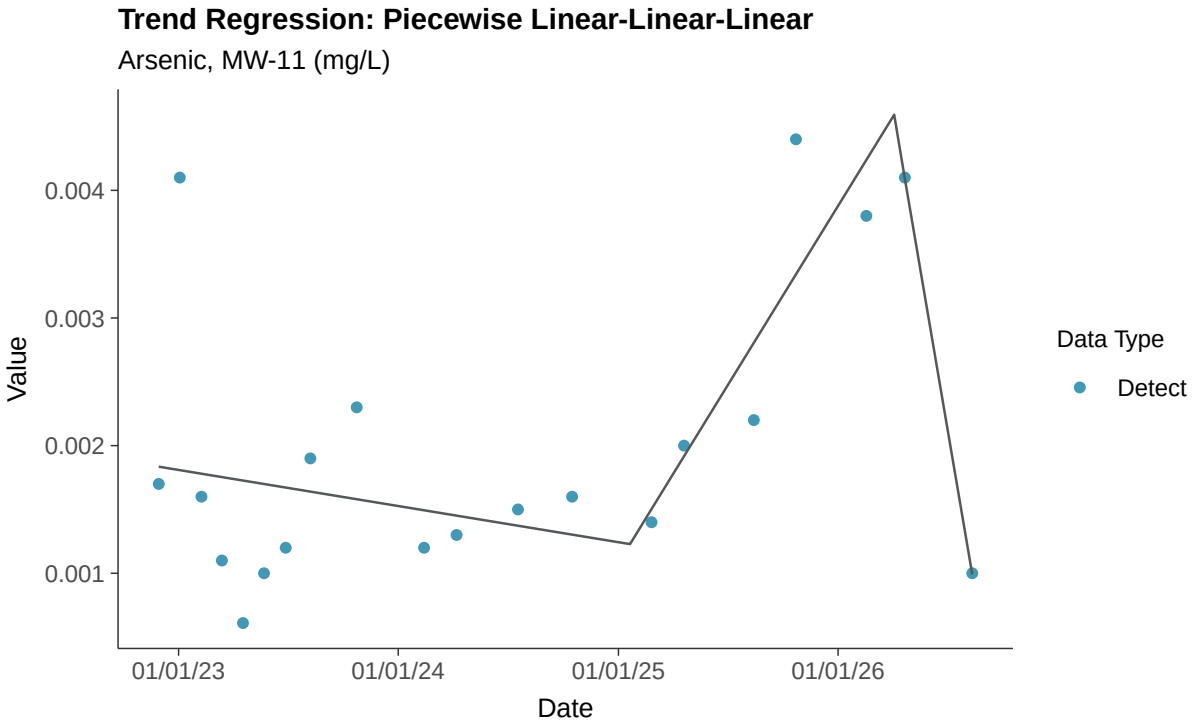
Arsenic, MW-11 (mg/L)



Trend Regression: Piecewise Linear-Linear

Arsenic, MW-11 (mg/L)



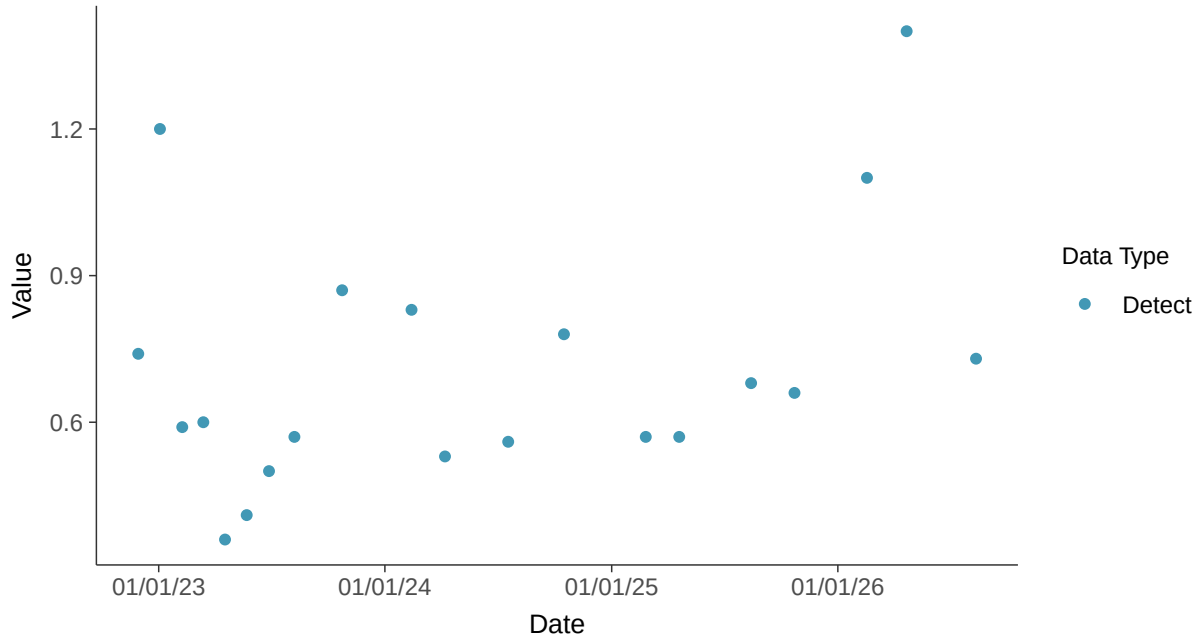

Trend Regression: Piecewise Linear-Linear-Linear
Arsenic, MW-11 (mg/L)
Value
0.004
0.003
0.002
0.001
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect

Appendix IV: Barium, MW-11

ID: 21_2_4_103

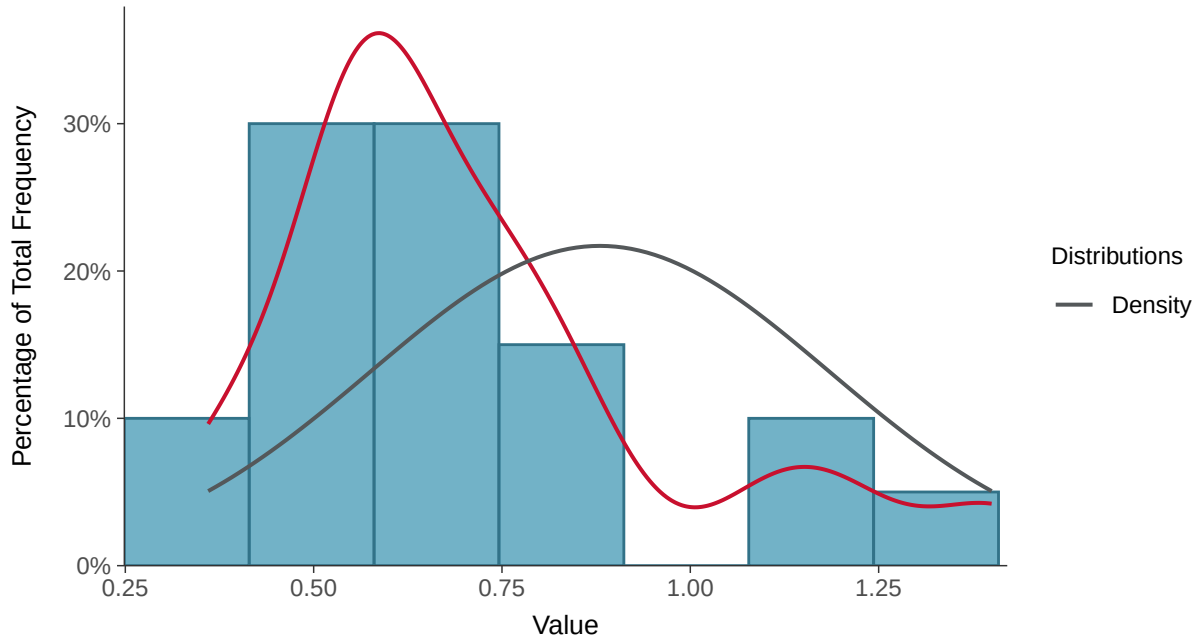
Scatter Plot

Barium, MW-11 (mg/L)



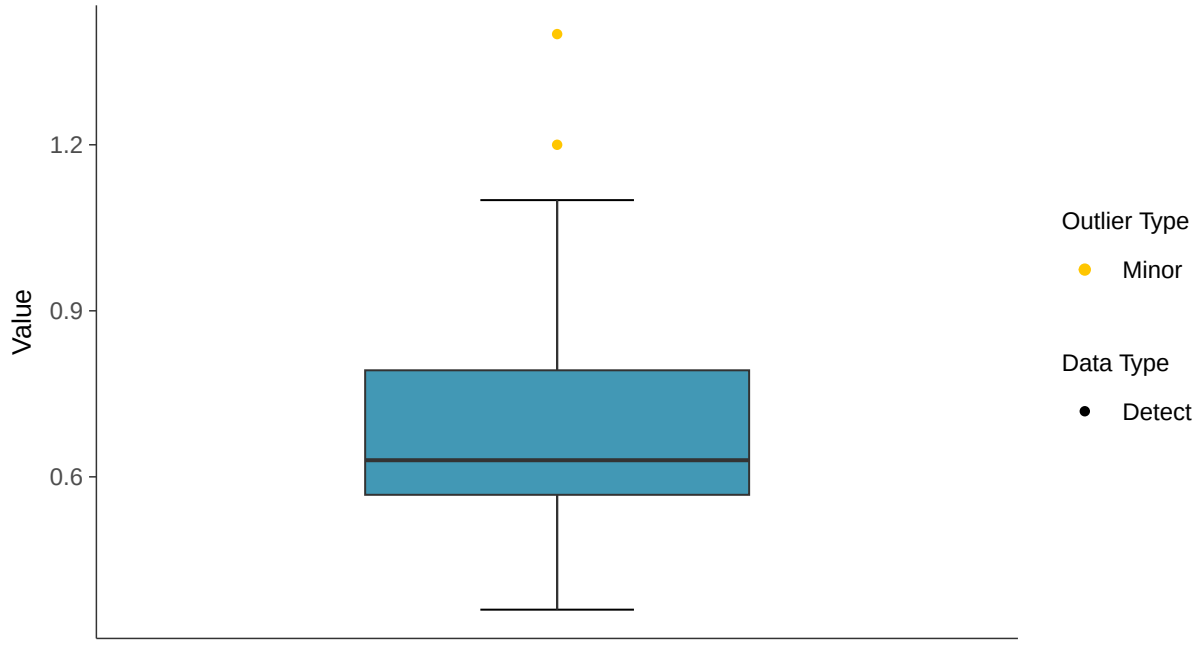
Histogram

Barium, MW-11 (mg/L)



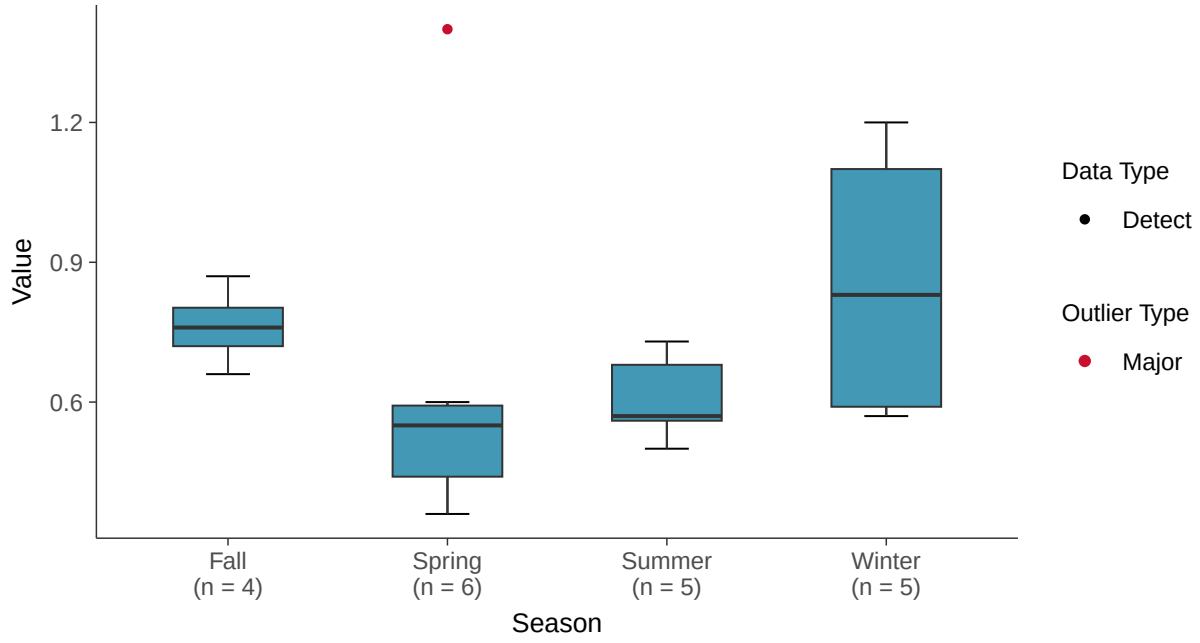
Boxplot

Barium, MW-11 (mg/L)



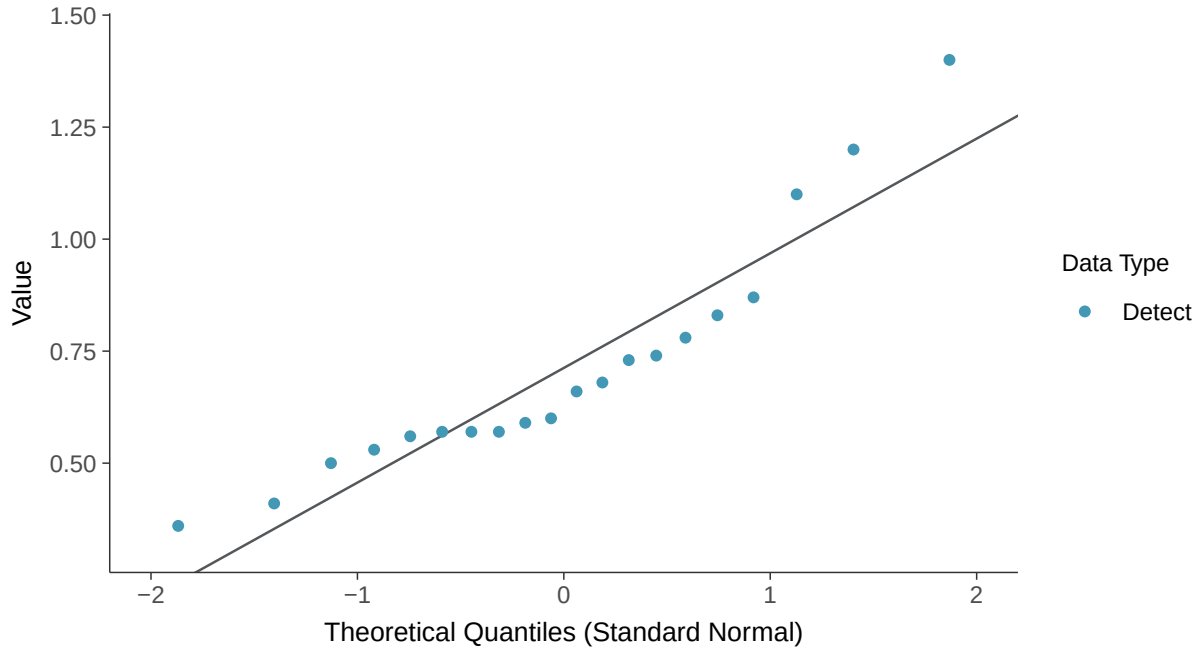
Boxplot by Season

Barium, MW-11 (mg/L)



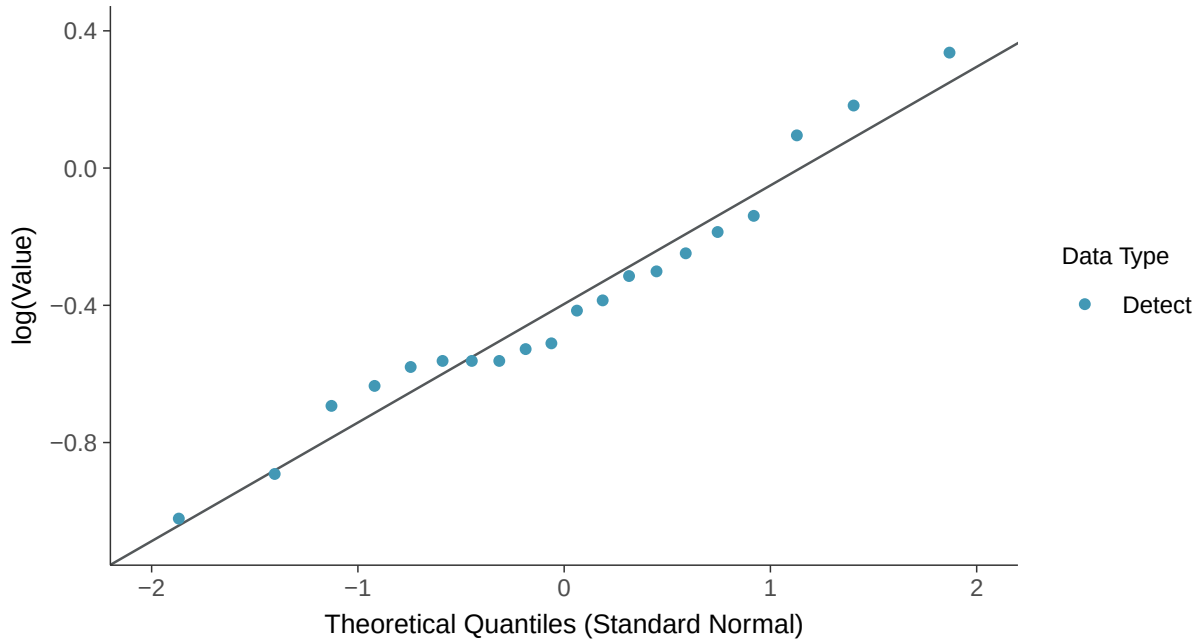
Normal Q-Q plot

Barium, MW-11 (mg/L)



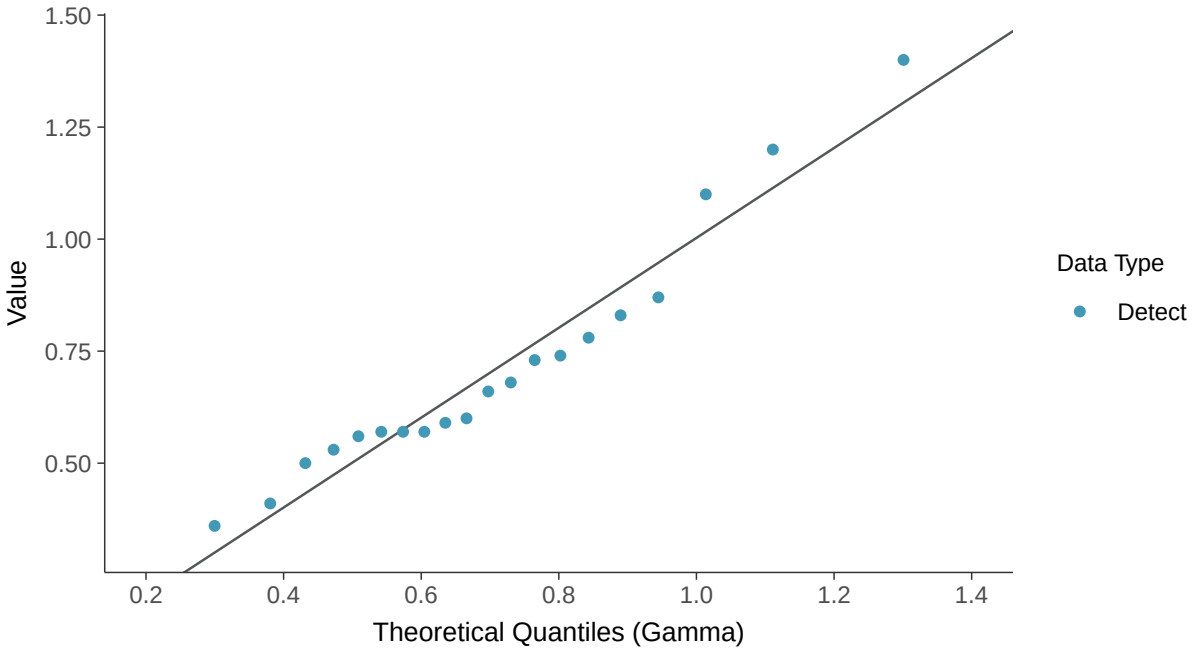
Lognormal Q-Q plot

Barium, MW-11 (mg/L)



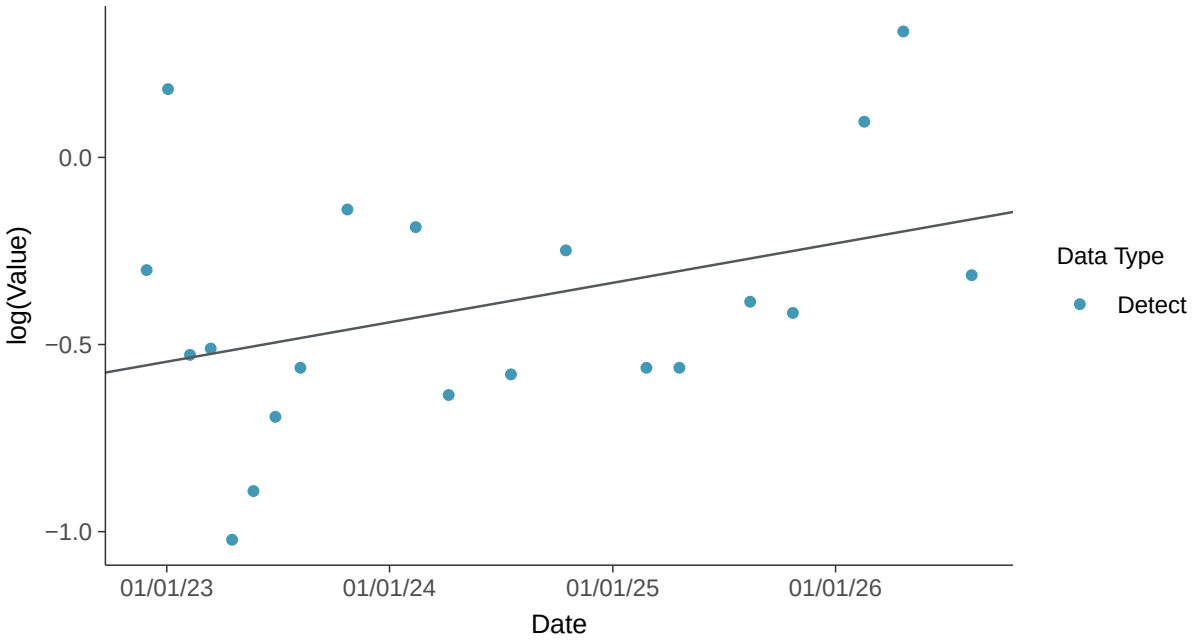
Gamma Q-Q plot

Barium, MW-11 (mg/L)



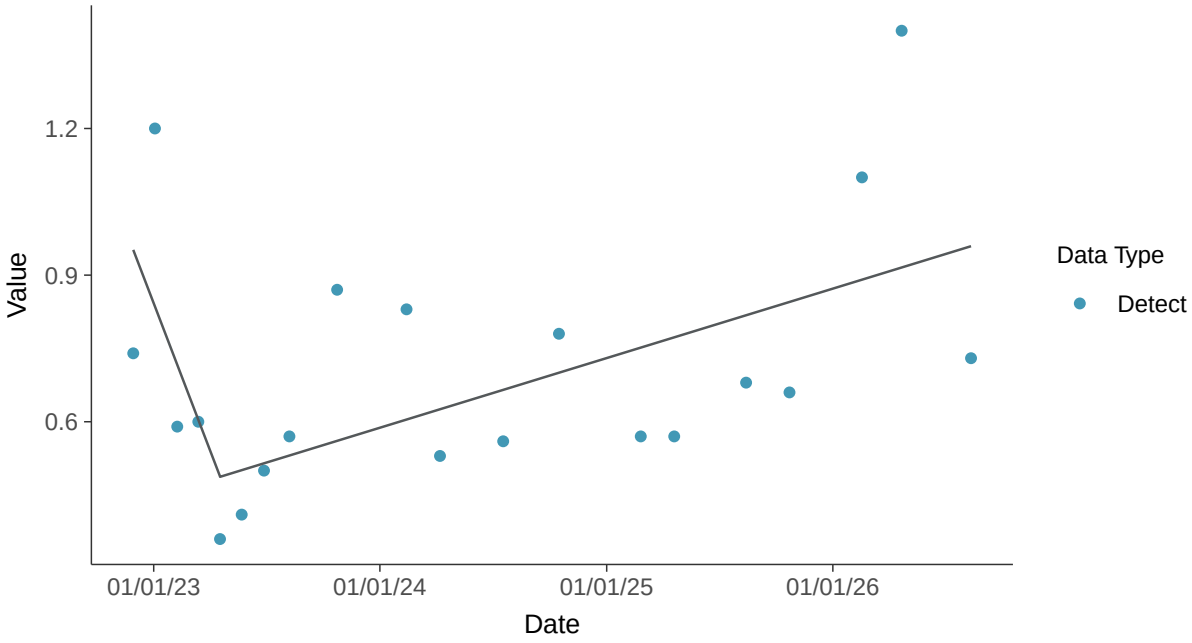
Trend Regression: Lognormal MLE

Barium, MW-11 (mg/L)



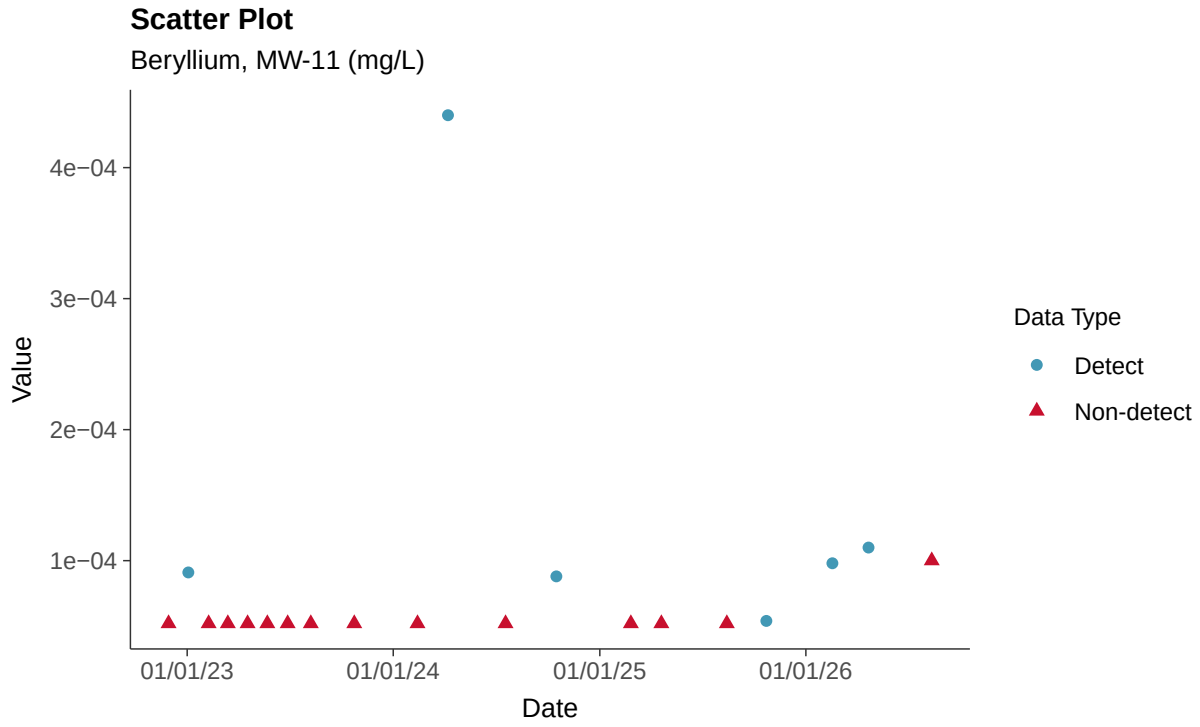
Trend Regression: Piecewise Linear-Linear

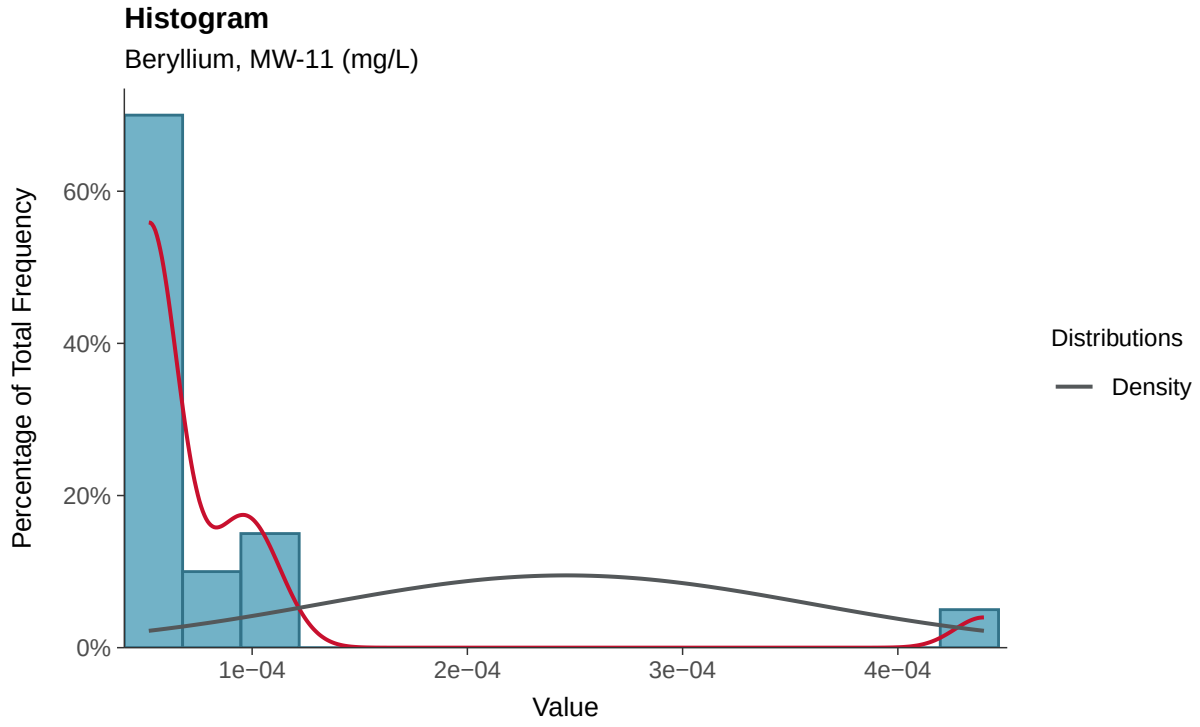
Barium, MW-11 (mg/L)



Appendix IV: Beryllium, MW-11

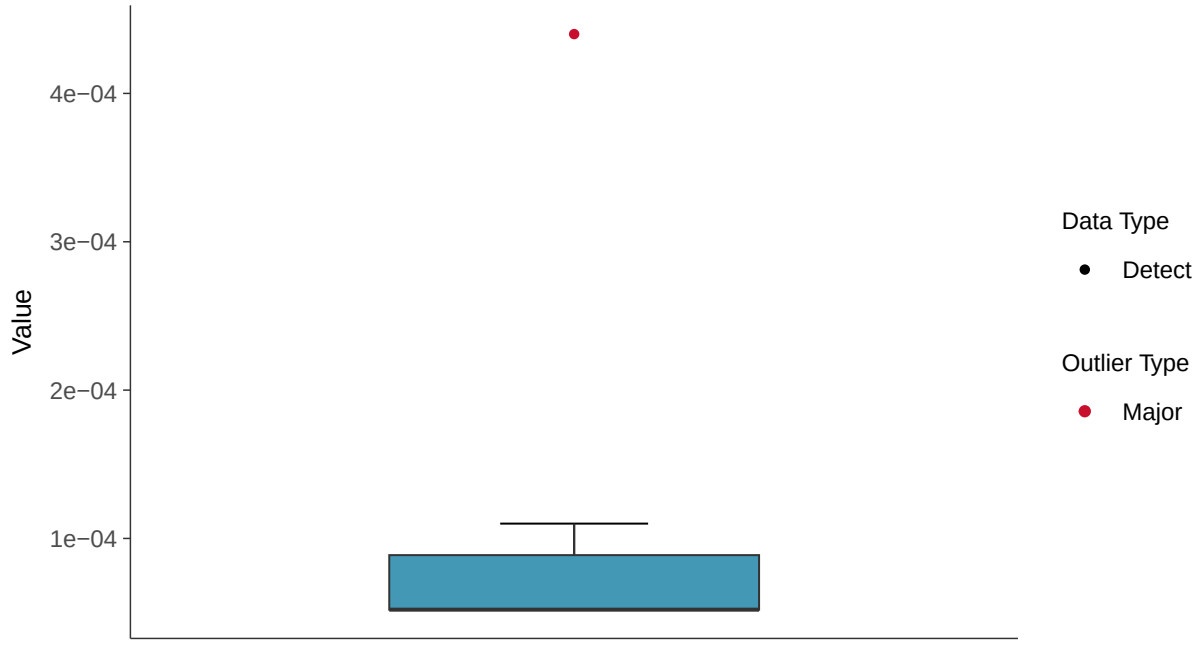
ID: 21_2_4_104





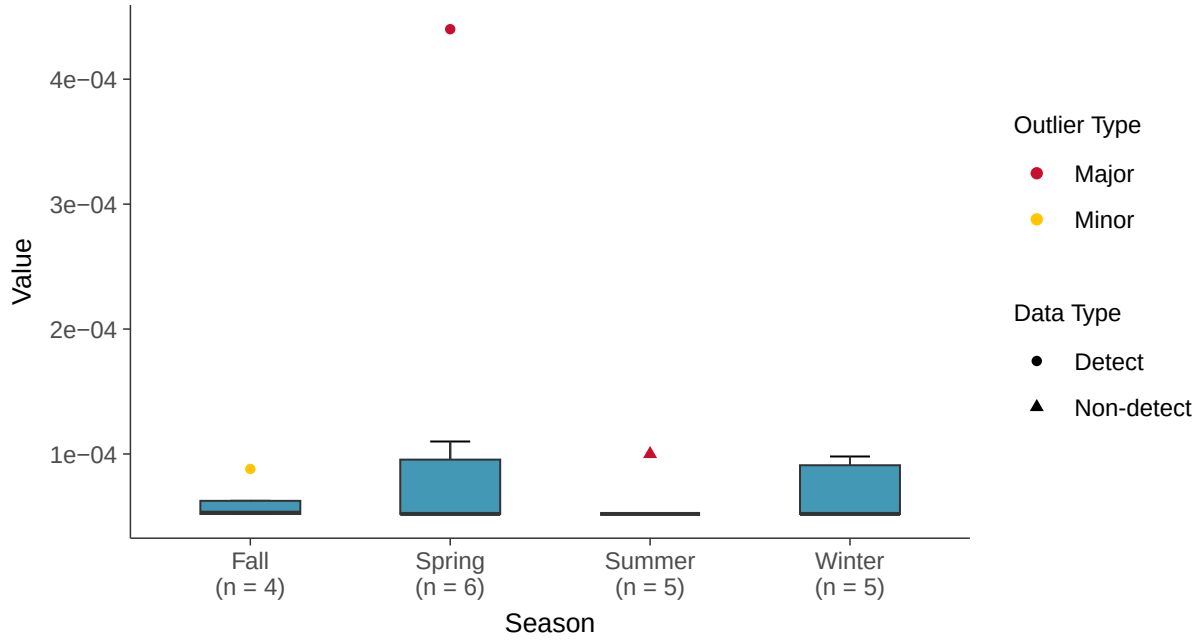
Boxplot

Beryllium, MW-11 (mg/L)



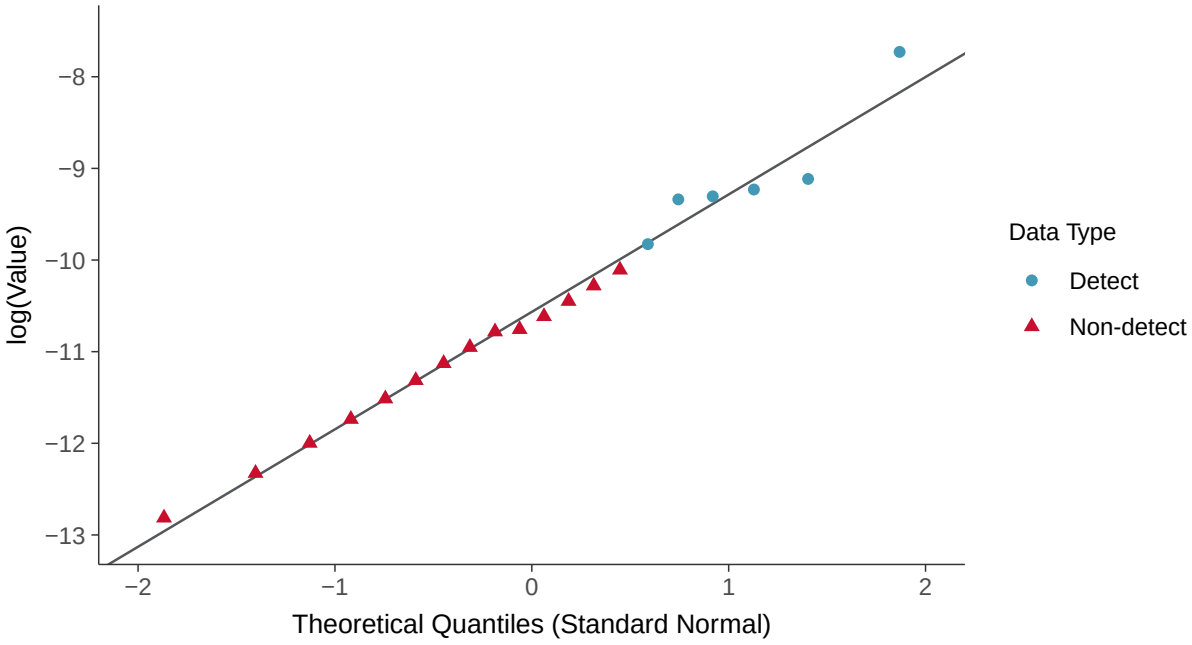
Boxplot by Season

Beryllium, MW-11 (mg/L)



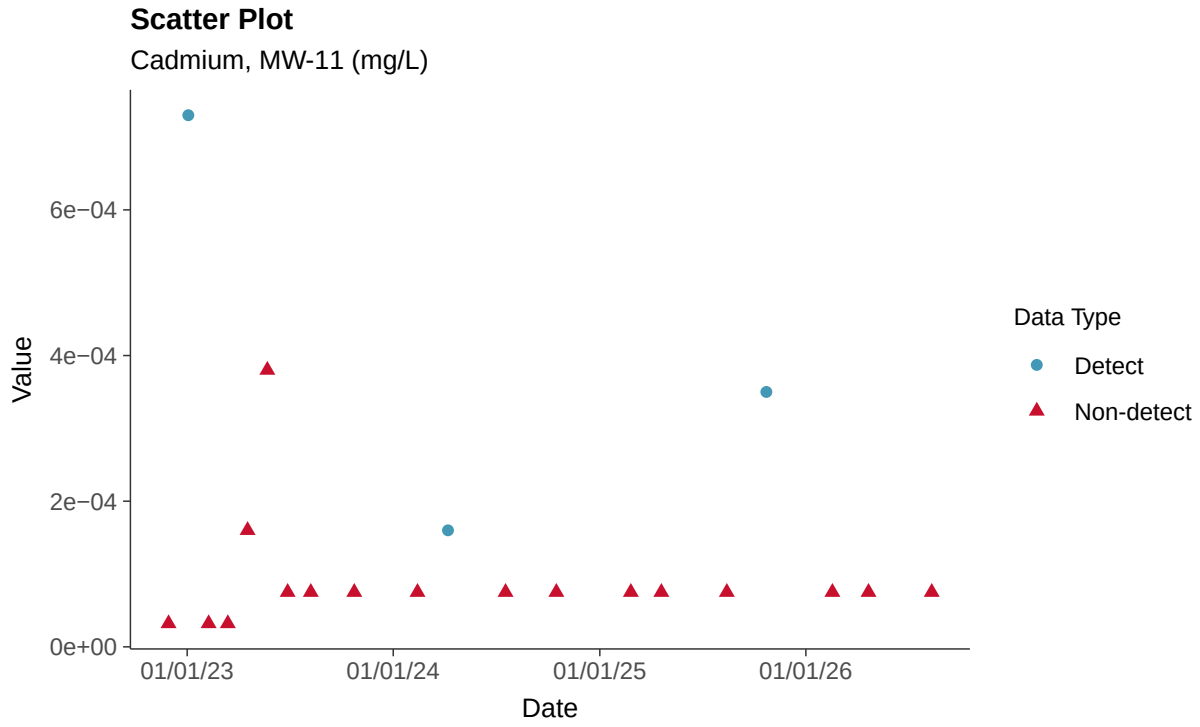
Lognormal Q-Q plot using ROS Imputed Estimates

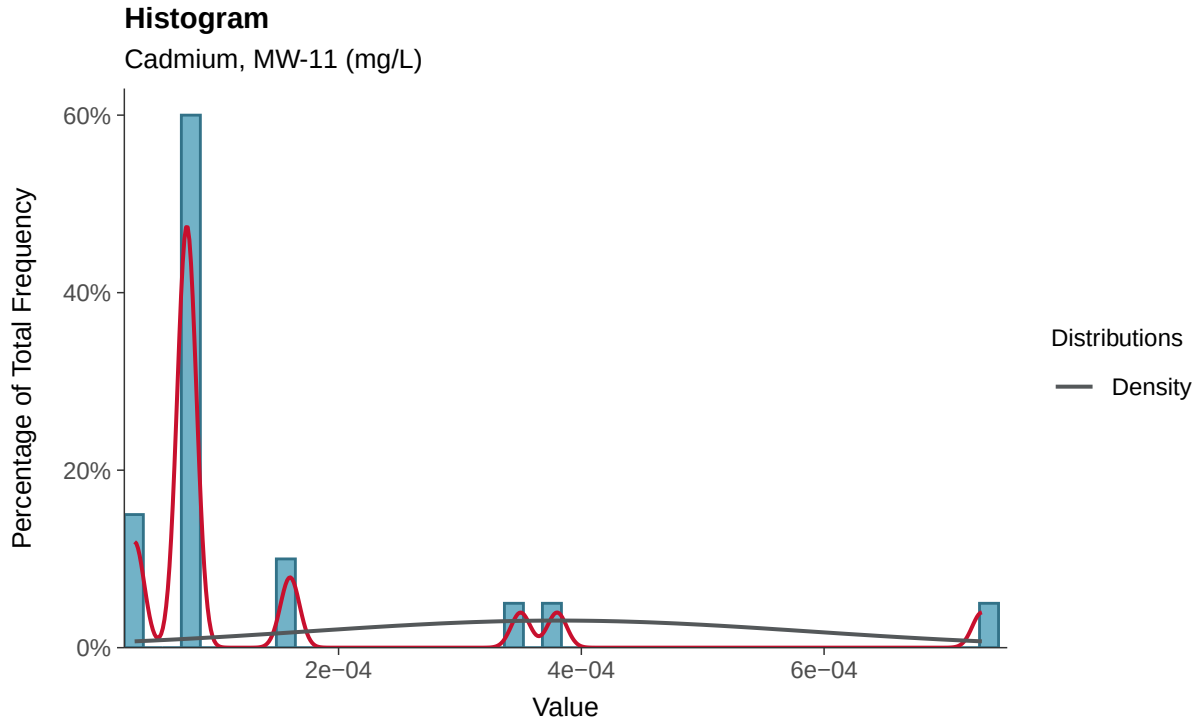
Beryllium, MW-11 (mg/L)



Appendix IV: Cadmium, MW-11

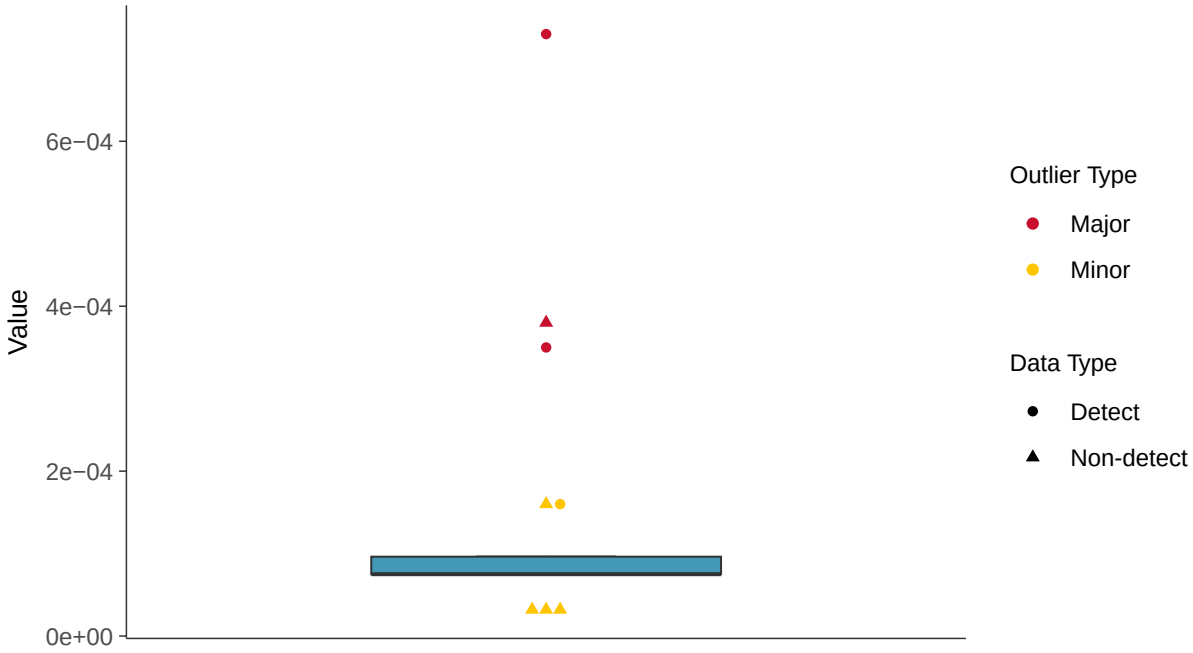
ID: 21_2_4_106





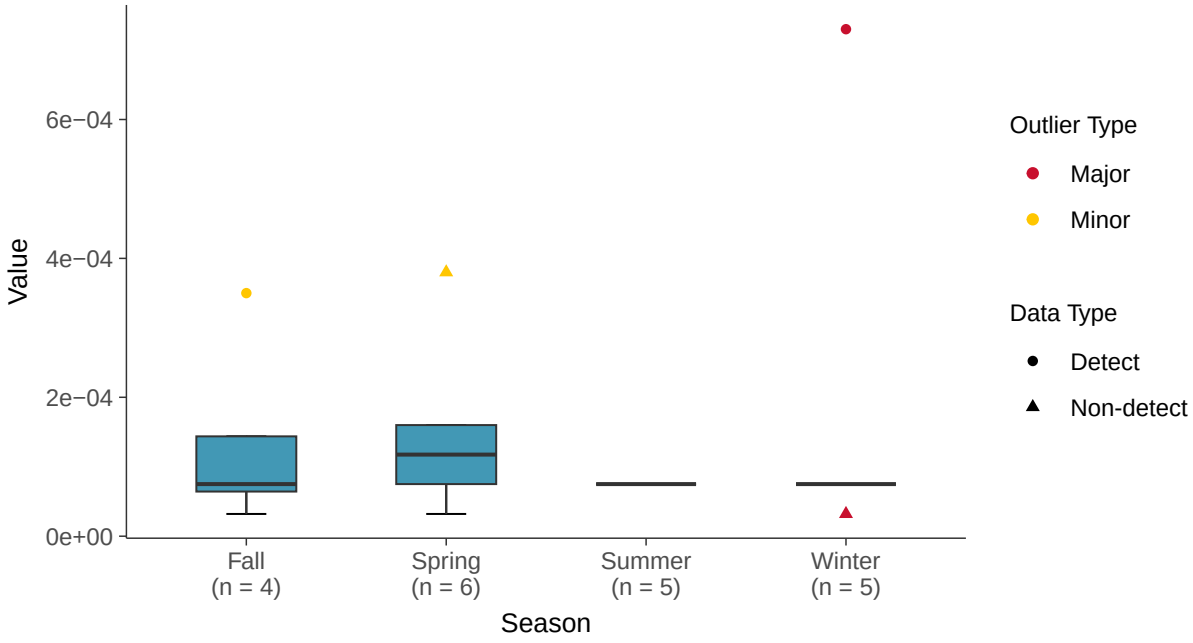
Boxplot

Cadmium, MW-11 (mg/L)



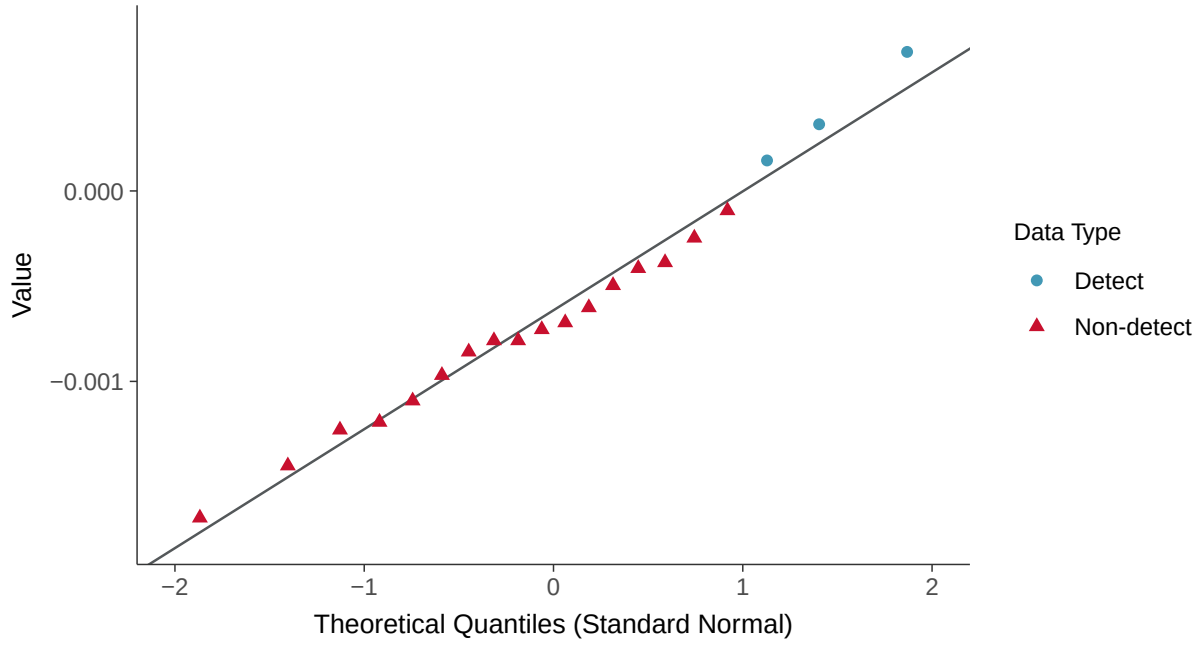
Boxplot by Season

Cadmium, MW-11 (mg/L)



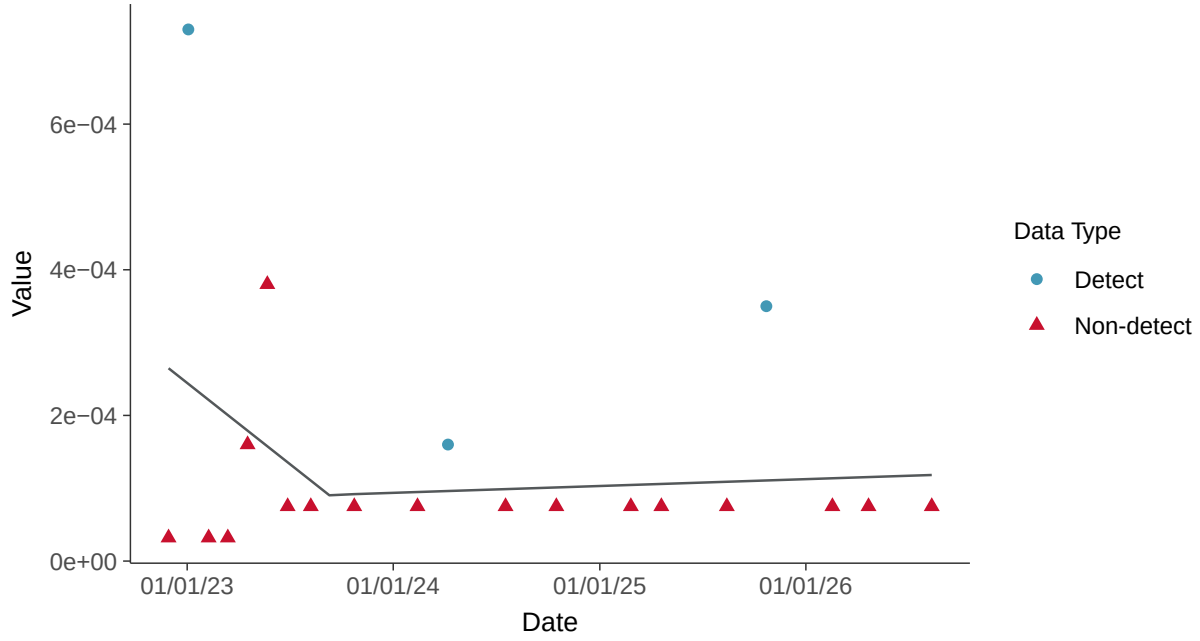
Normal Q-Q plot using ROS Imputed Estimates

Cadmium, MW-11 (mg/L)



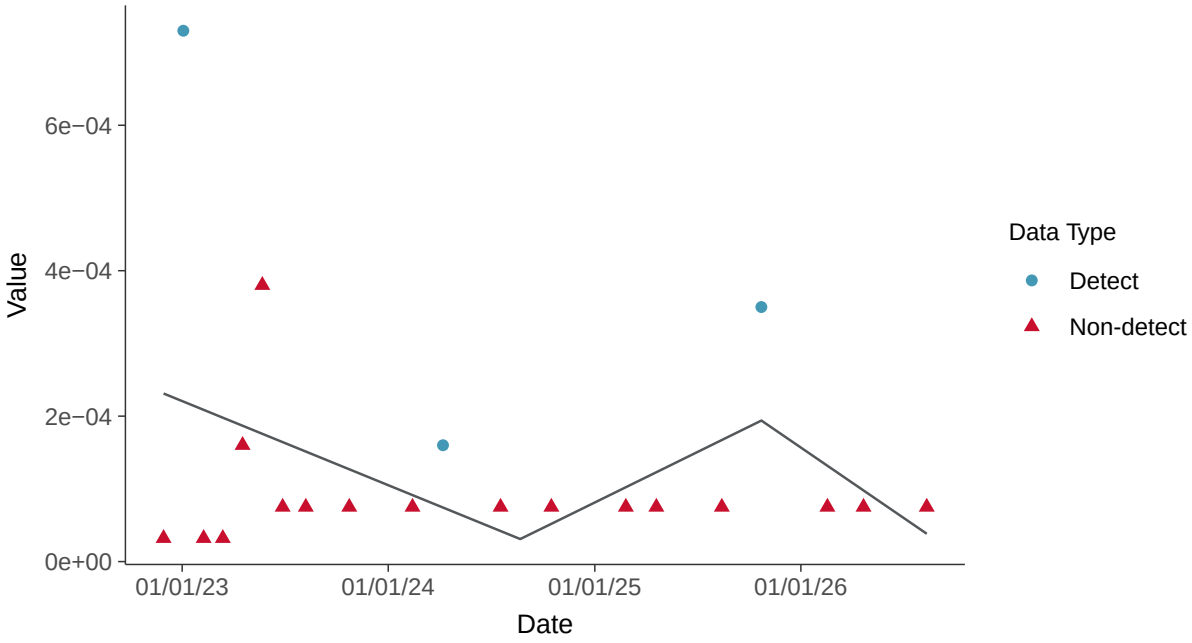
Trend Regression: Piecewise Linear-Linear

Cadmium, MW-11 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Cadmium, MW-11 (mg/L)

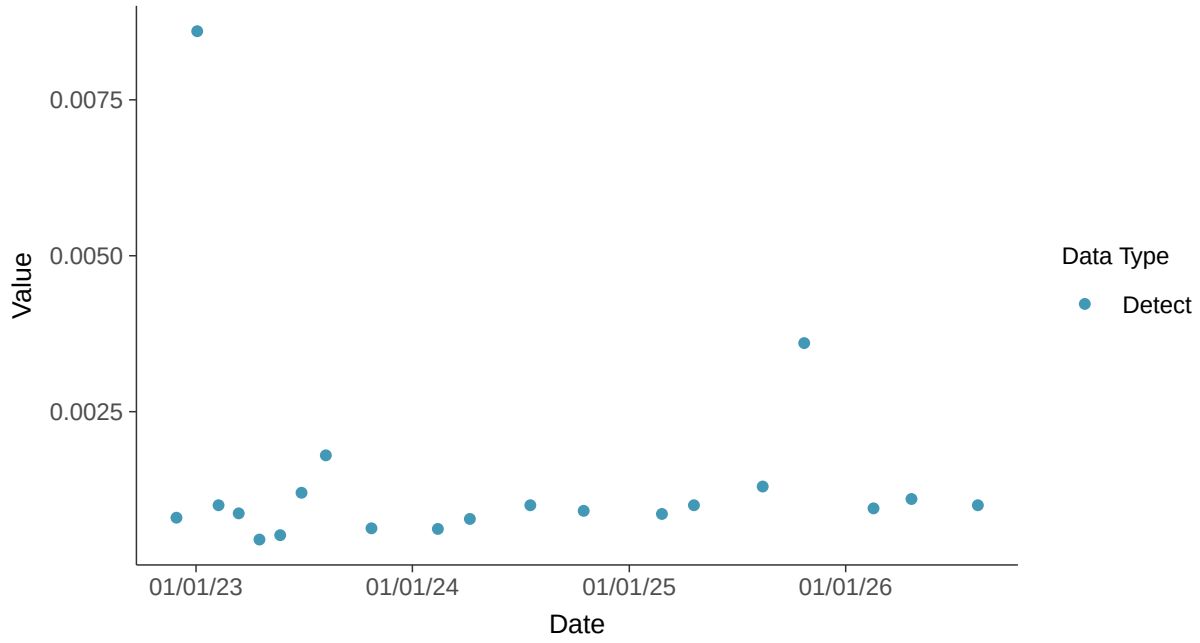


Appendix IV: Chromium, Total, MW-11

ID: 21_2_4_109

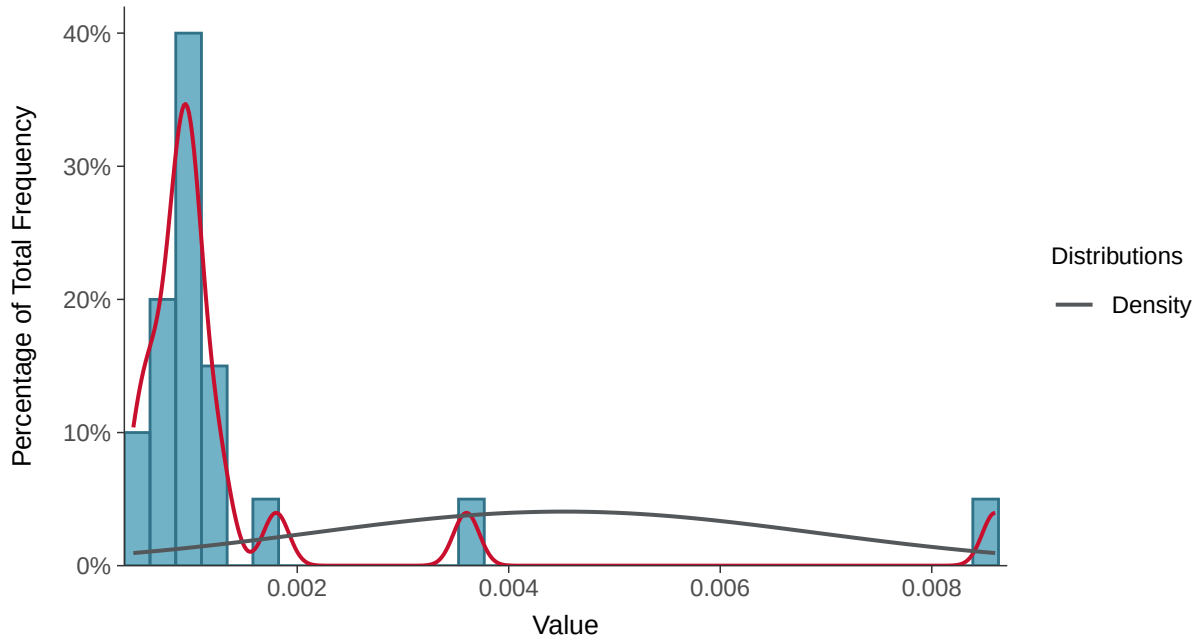
Scatter Plot

Chromium, Total, MW-11 (mg/L)



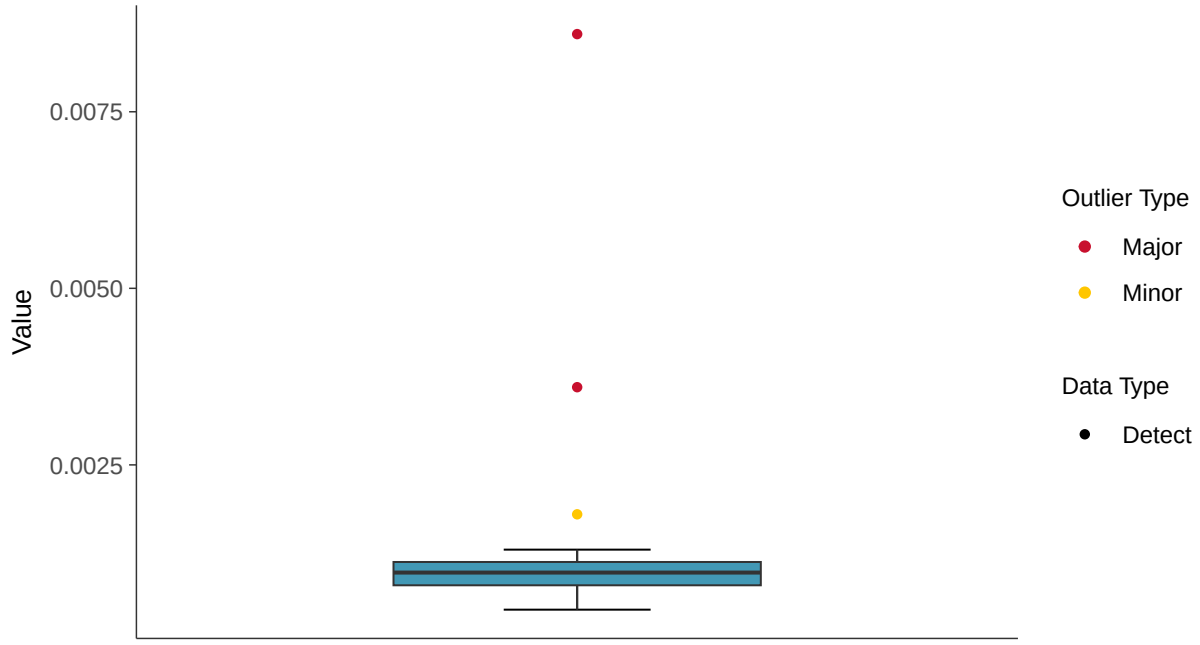
Histogram

Chromium, Total, MW-11 (mg/L)



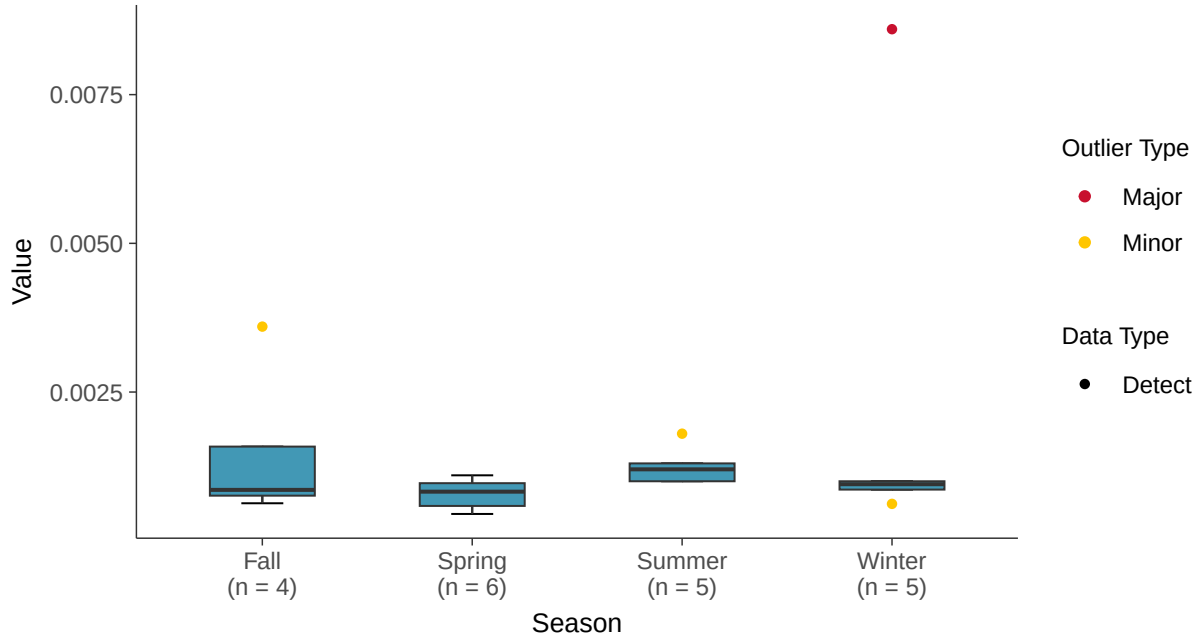
Boxplot

Chromium, Total, MW-11 (mg/L)



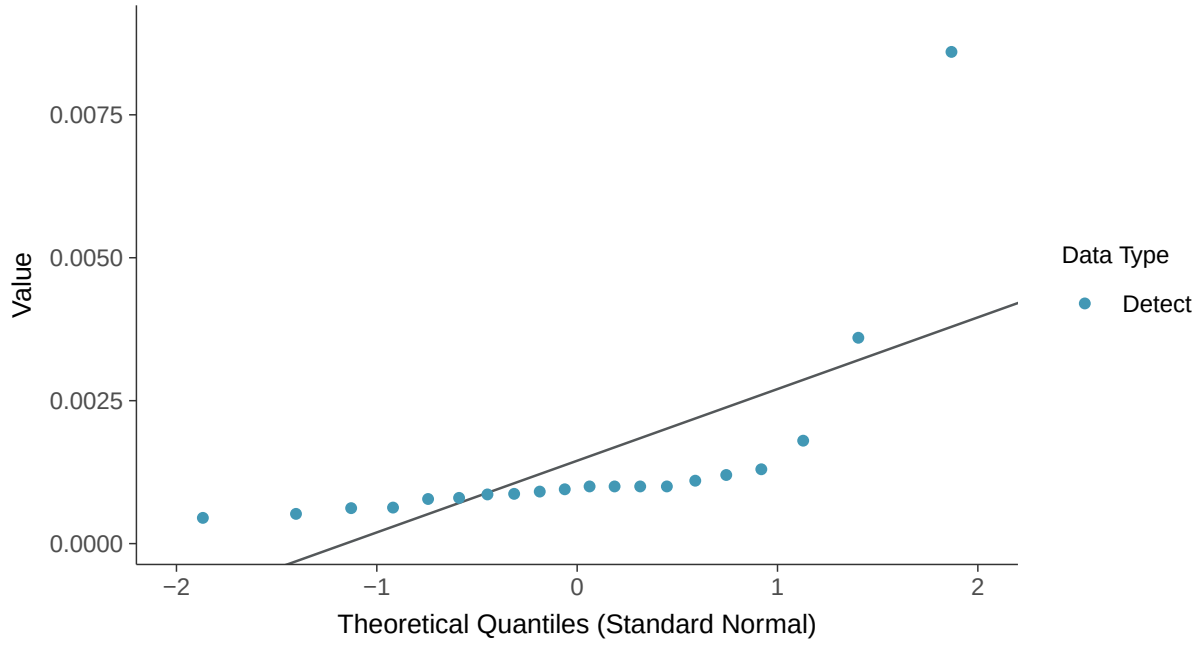
Boxplot by Season

Chromium, Total, MW-11 (mg/L)



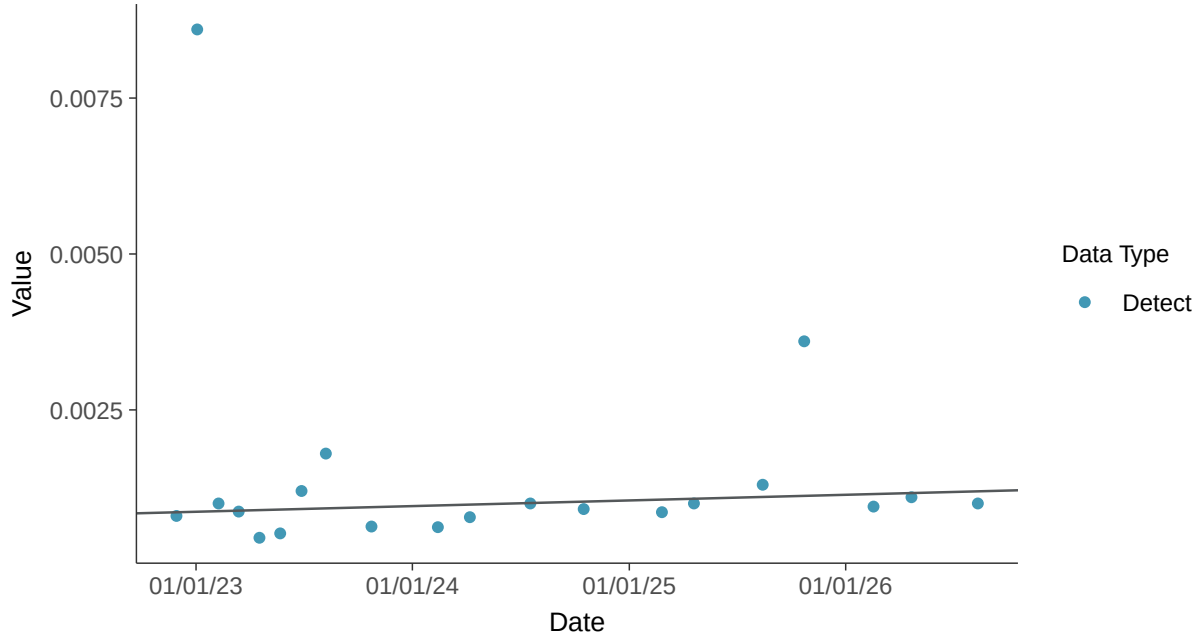
Normal Q-Q plot

Chromium, Total, MW-11 (mg/L)



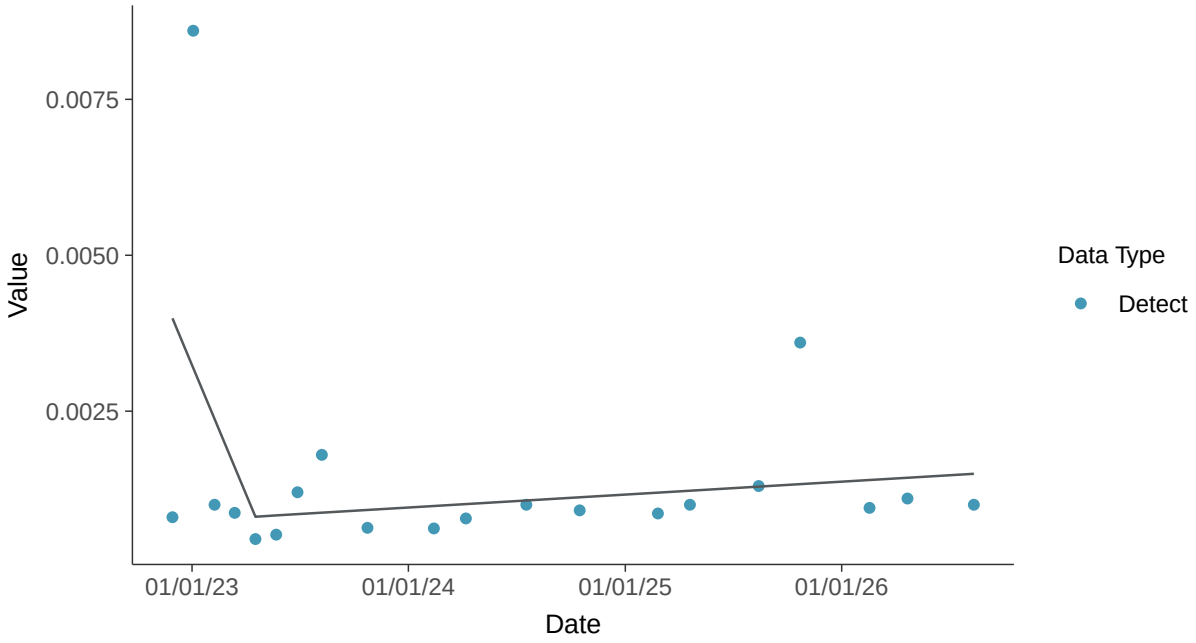
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Chromium, Total, MW-11 (mg/L)



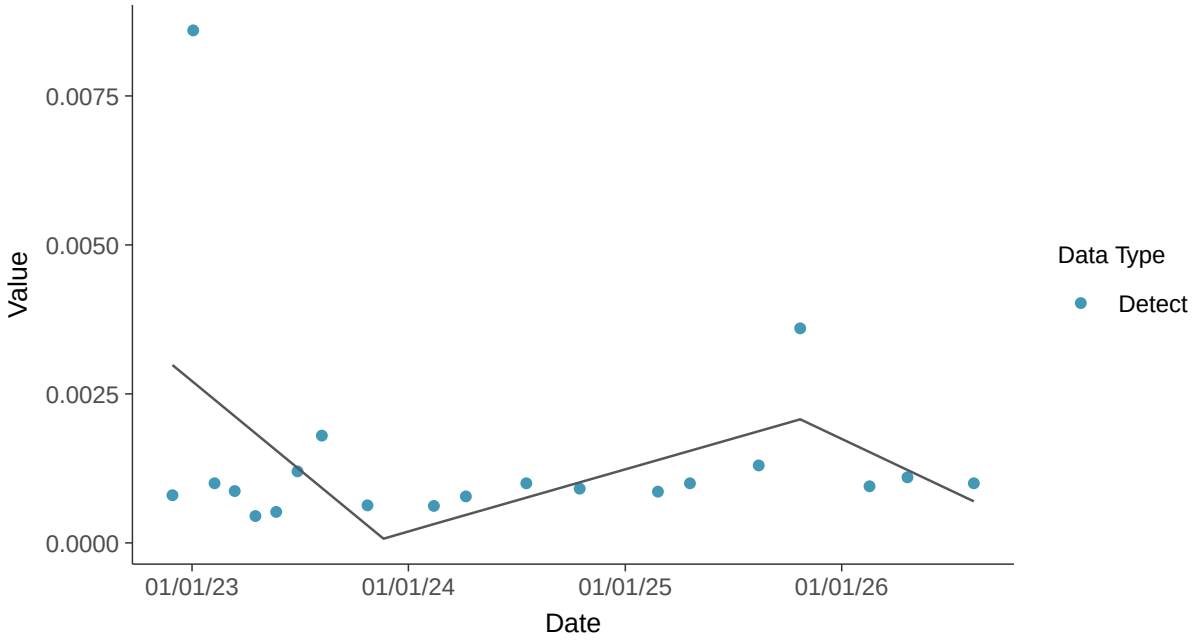
Trend Regression: Piecewise Linear-Linear

Chromium, Total, MW-11 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Chromium, Total, MW-11 (mg/L)

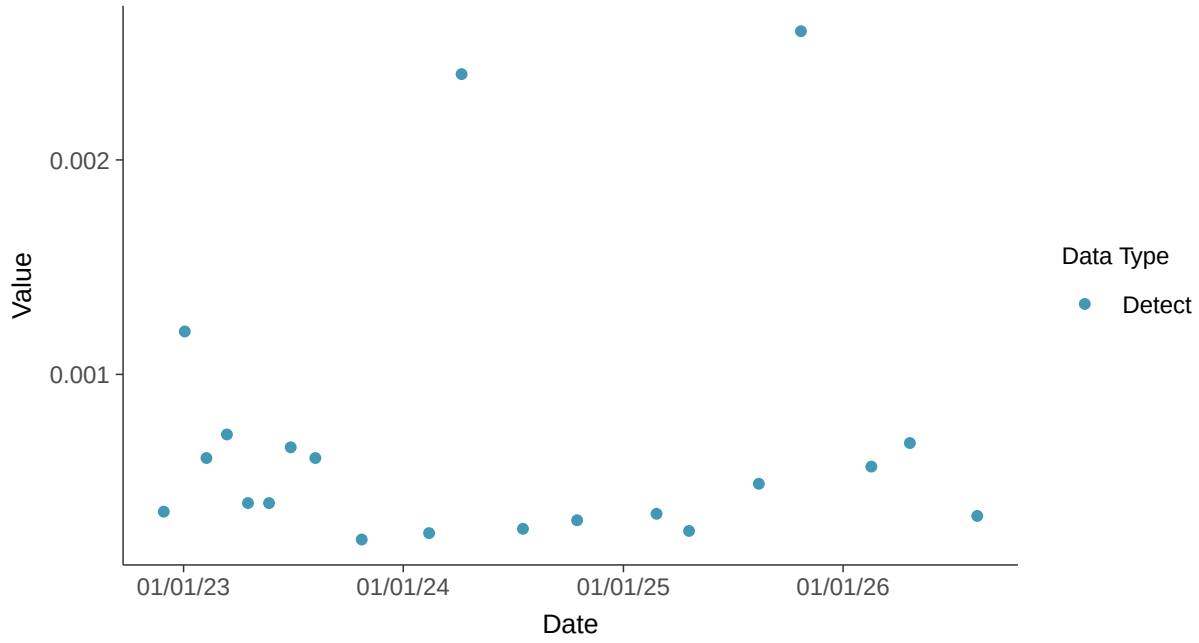


Appendix IV: Cobalt, MW-11

ID: 21_2_4_110

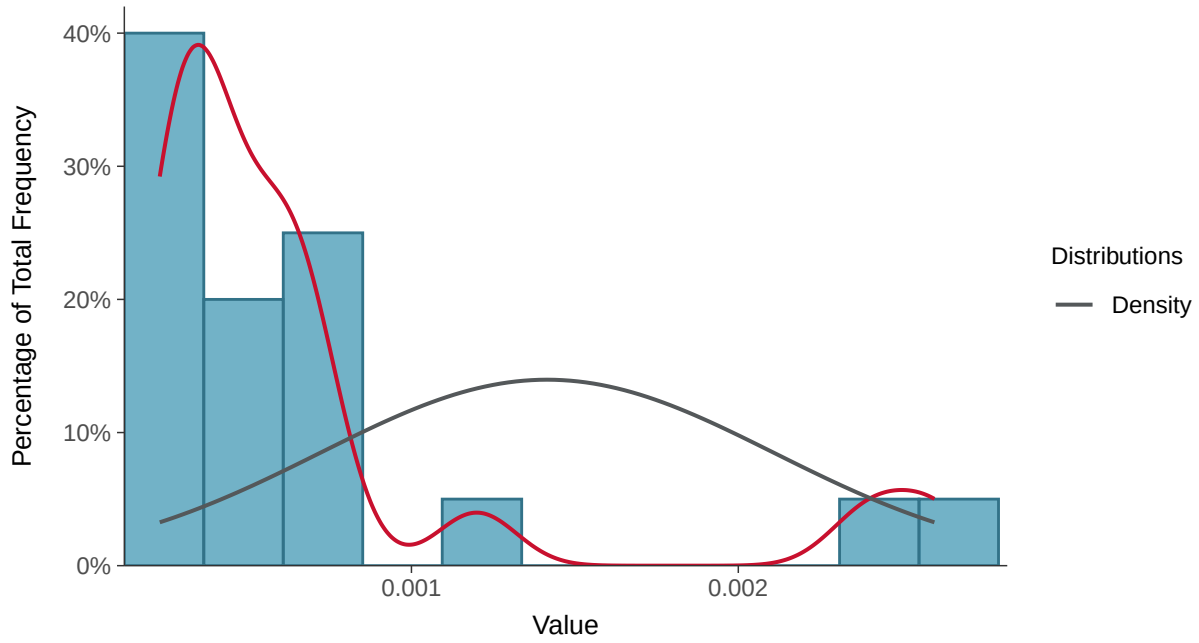
Scatter Plot

Cobalt, MW-11 (mg/L)



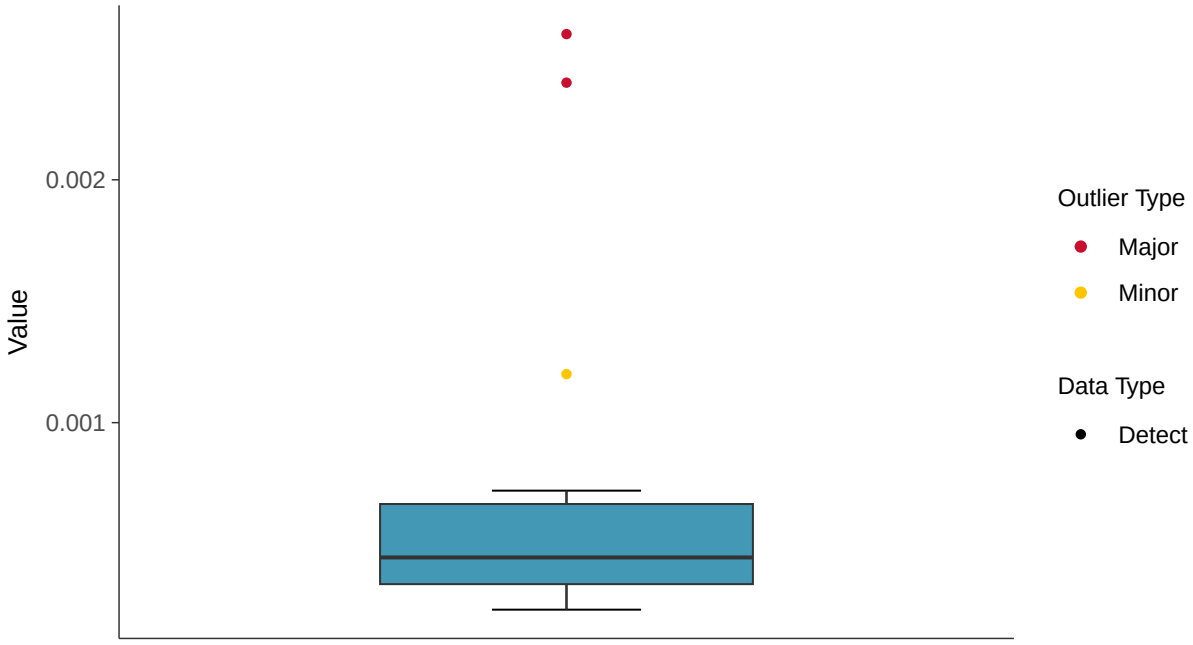
Histogram

Cobalt, MW-11 (mg/L)



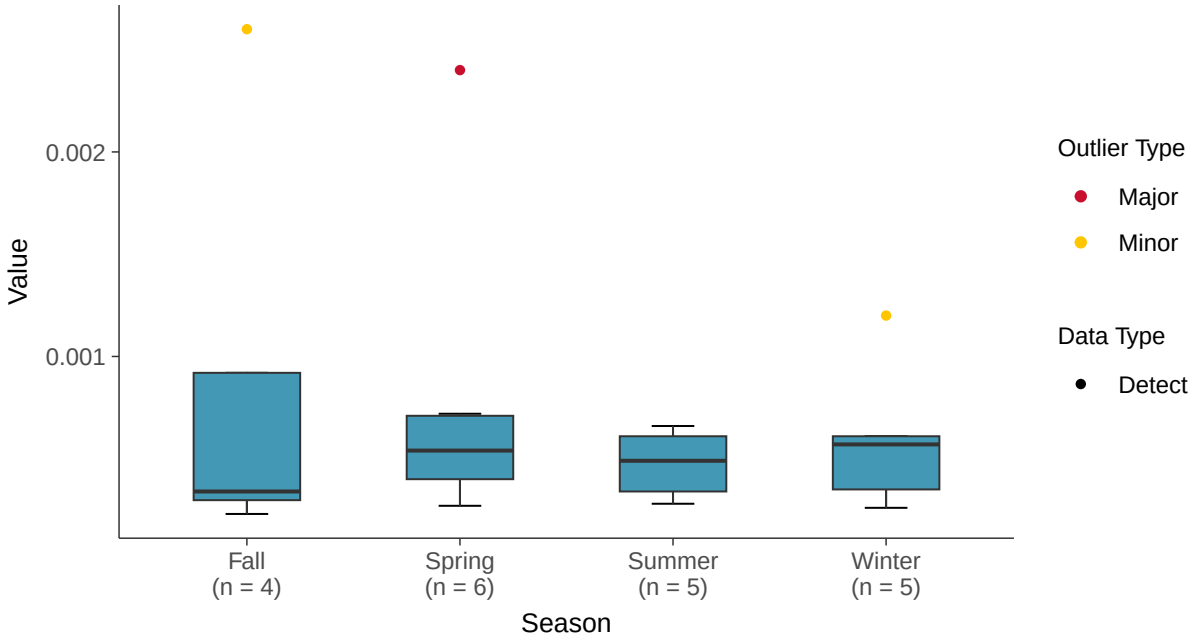
Boxplot

Cobalt, MW-11 (mg/L)



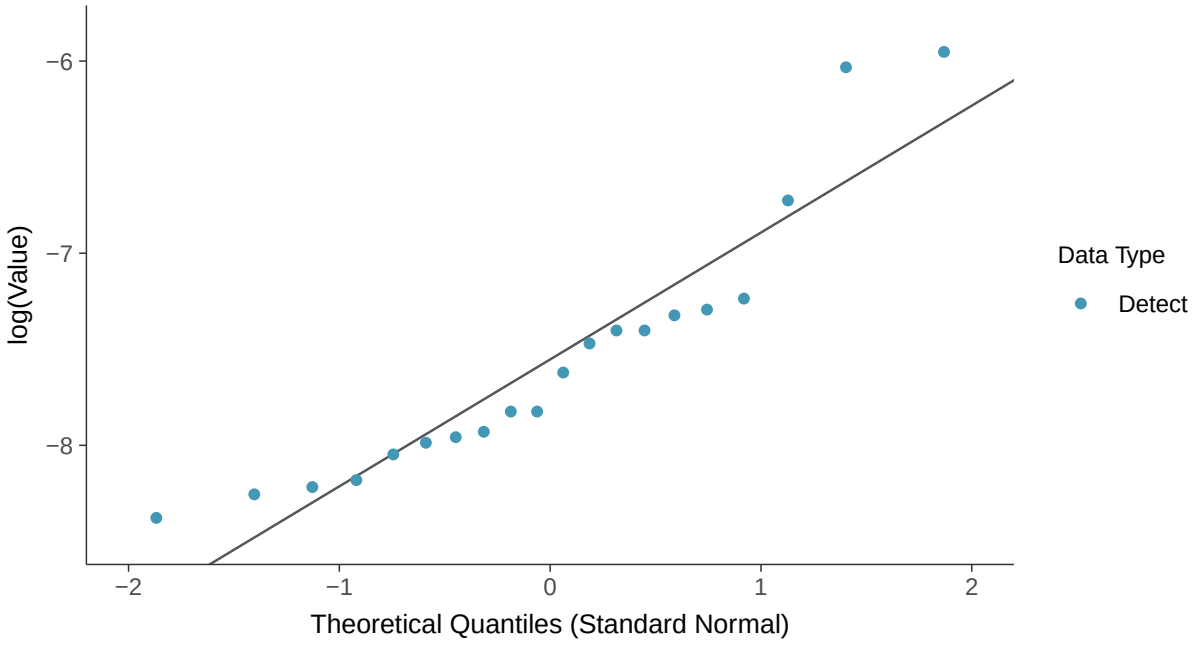
Boxplot by Season

Cobalt, MW-11 (mg/L)



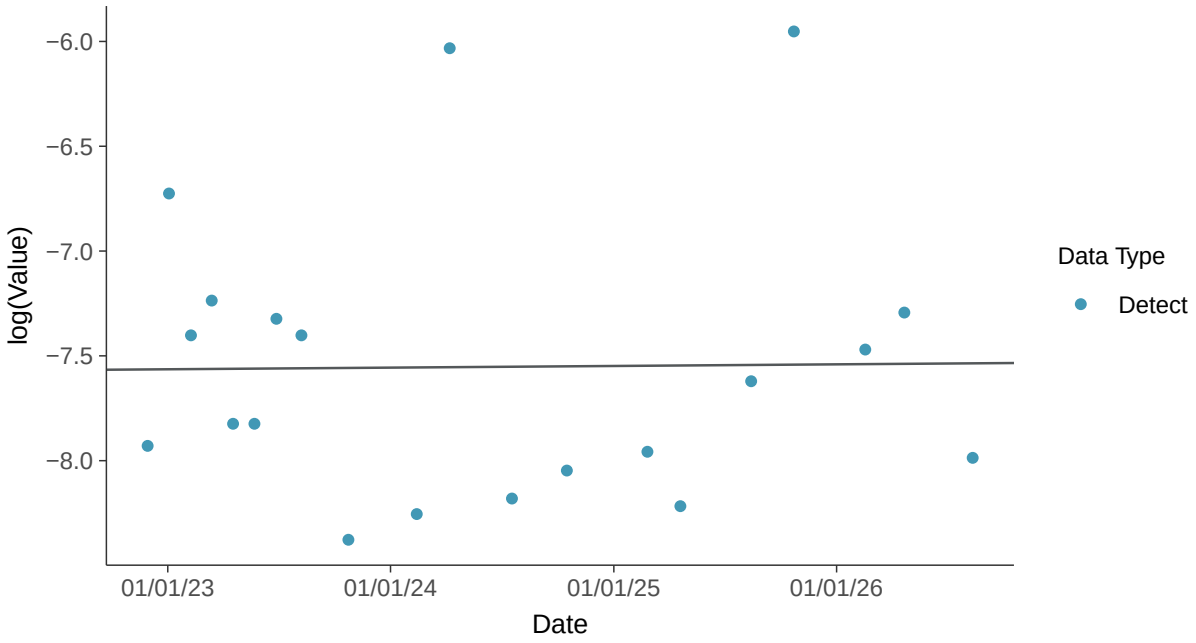
Lognormal Q-Q plot

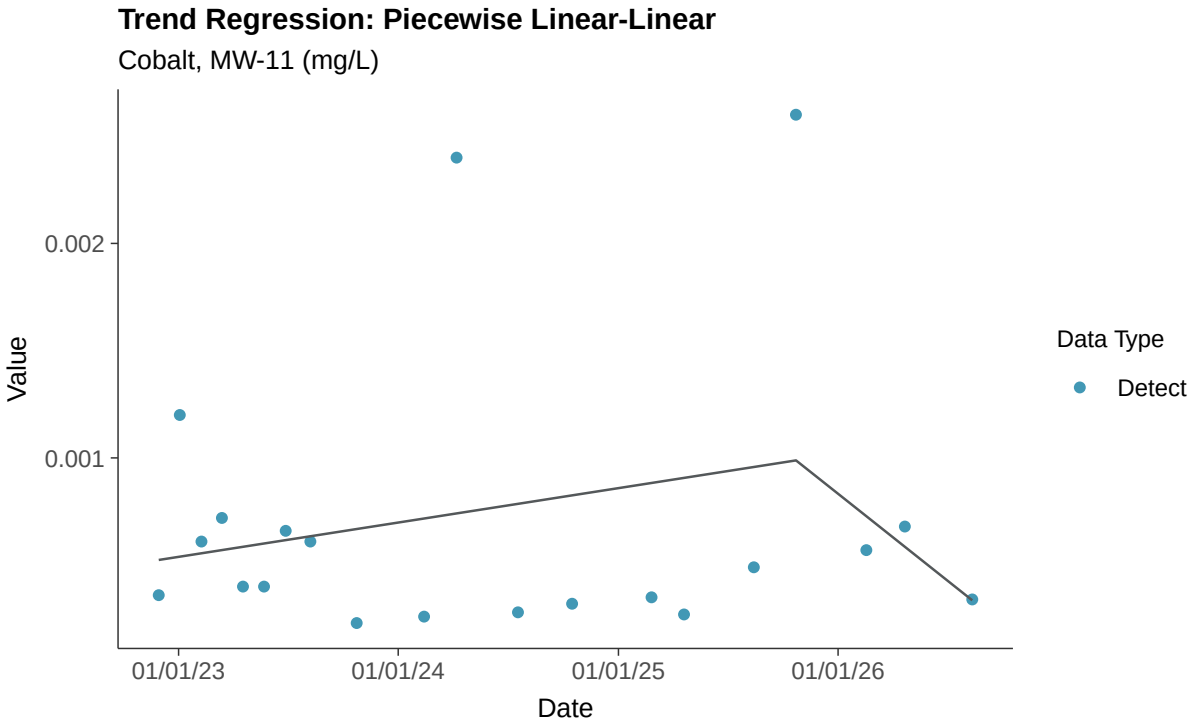
Cobalt, MW-11 (mg/L)



Trend Regression: Lognormal MLE

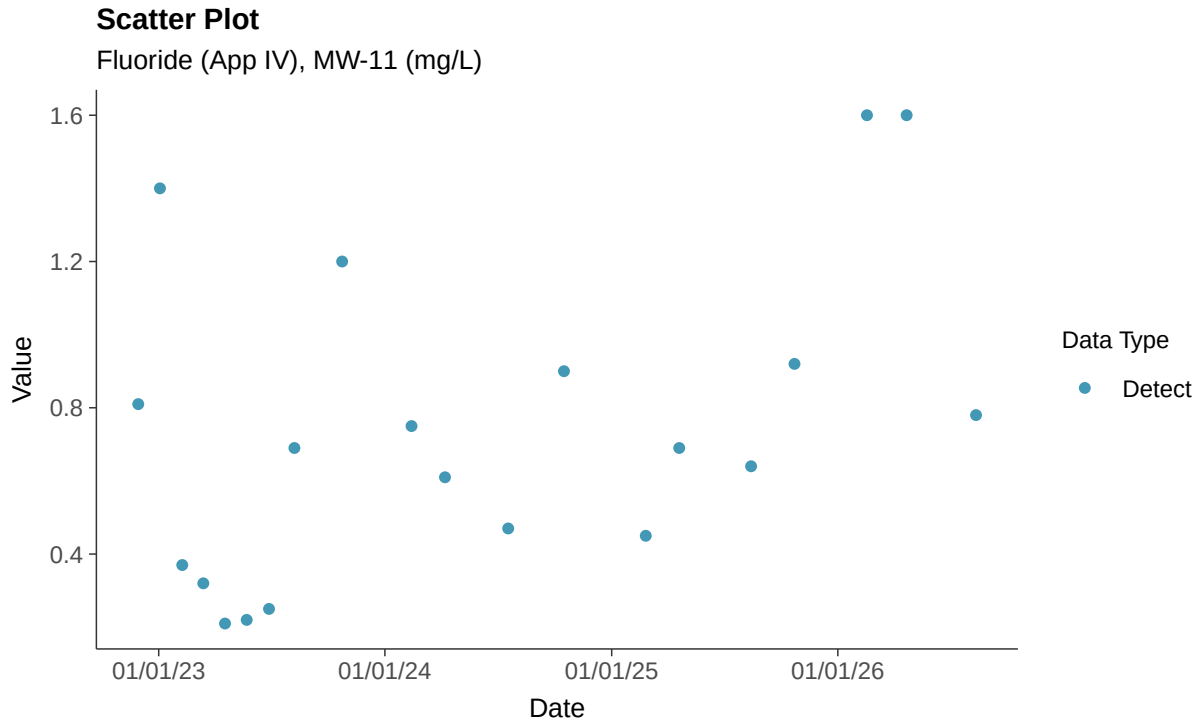
Cobalt, MW-11 (mg/L)

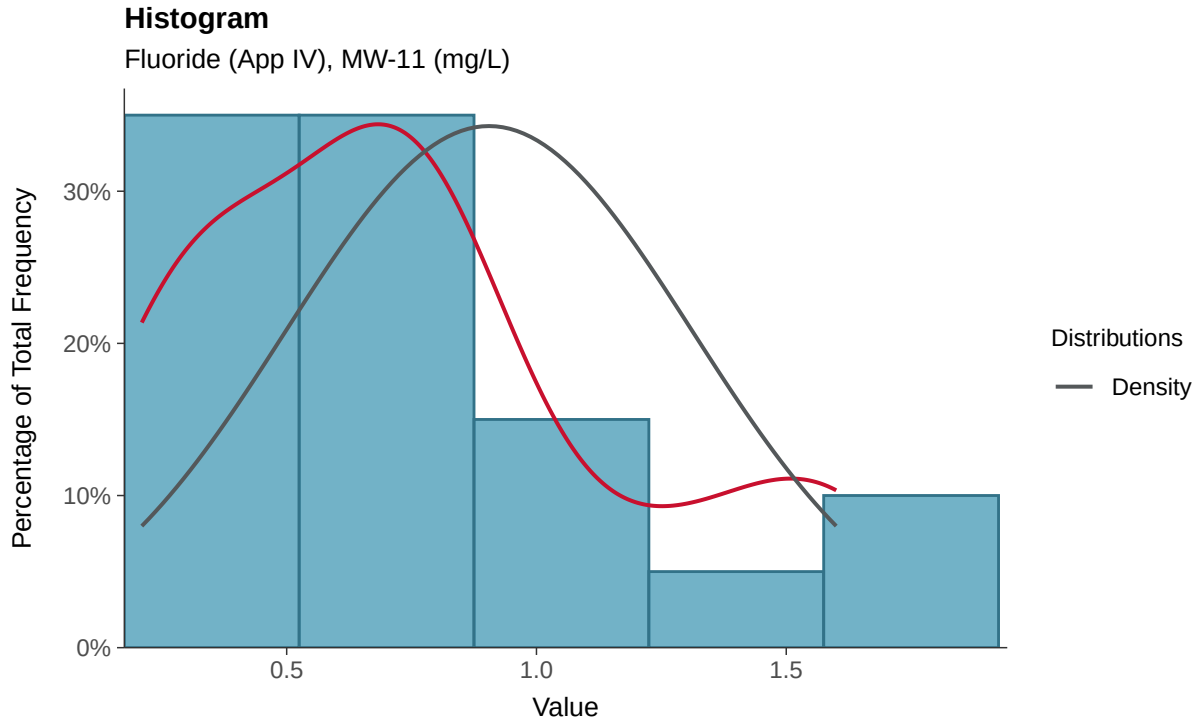



Trend Regression: Piecewise Linear-Linear
Cobalt, MW-11 (mg/L)
Value
0.002
0.001
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect

Appendix IV: Fluoride (App IV), MW-11

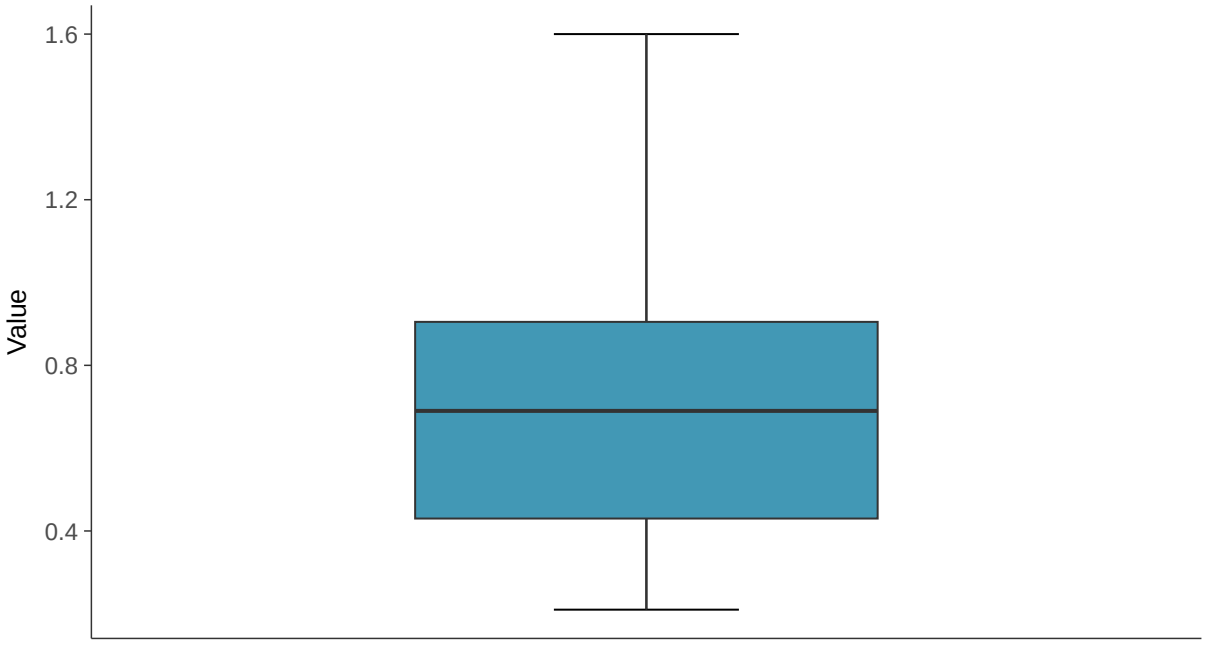
ID: 21_2_4_113





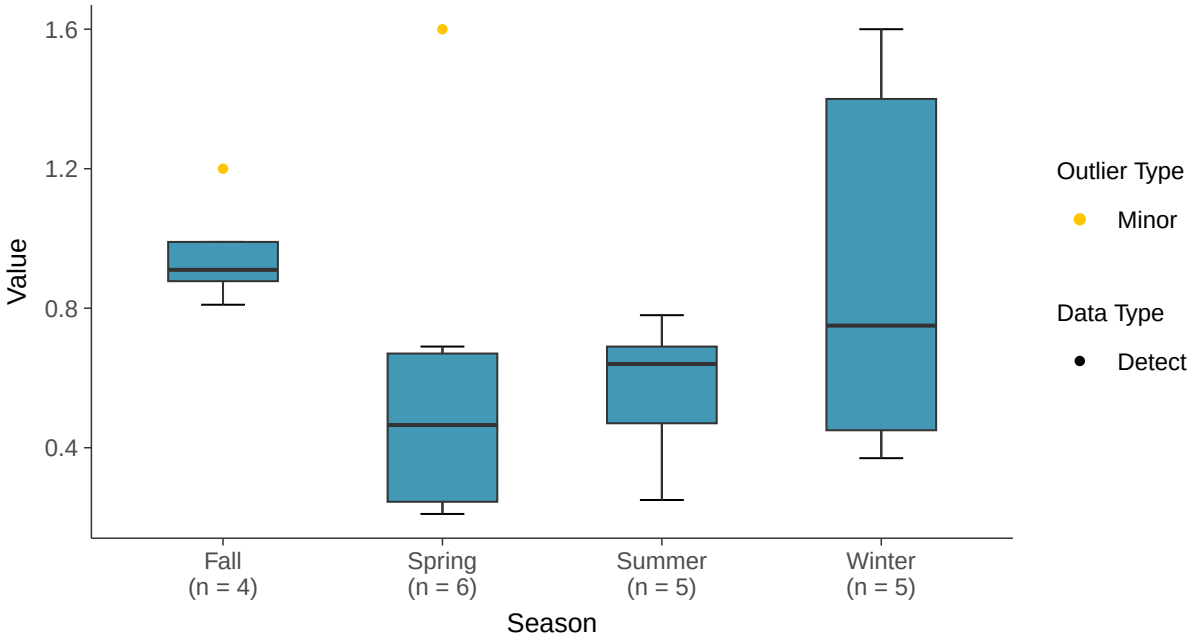
Boxplot

Fluoride (App IV), MW-11 (mg/L)



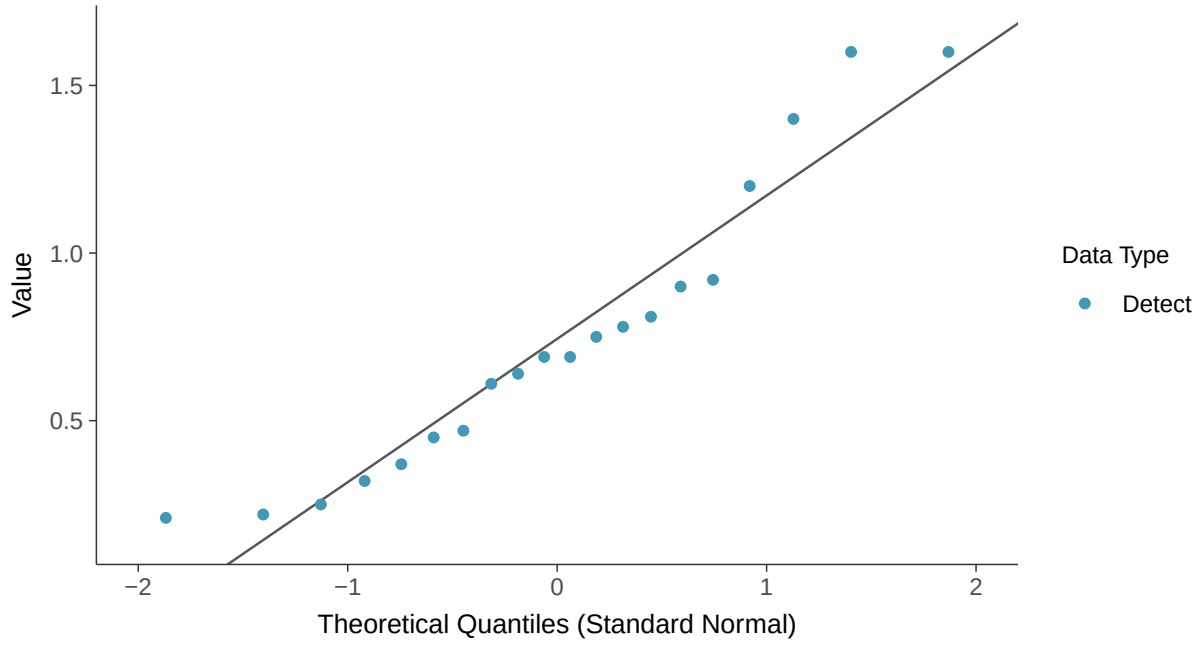
Boxplot by Season

Fluoride (App IV), MW-11 (mg/L)



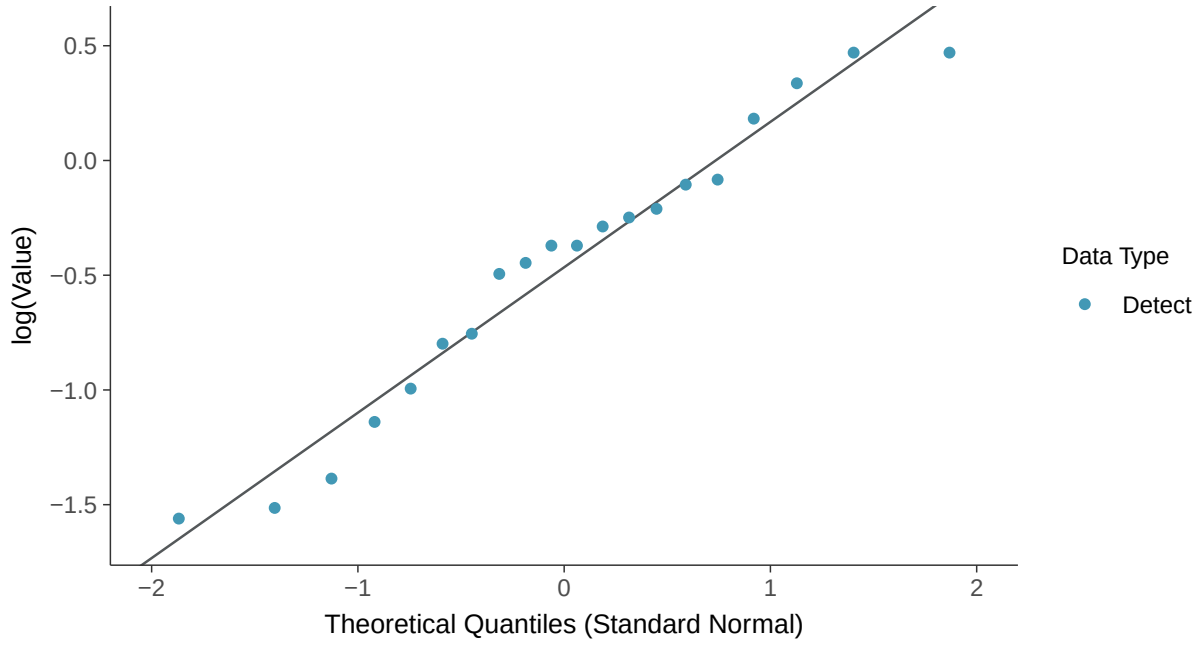
Normal Q-Q plot

Fluoride (App IV), MW-11 (mg/L)



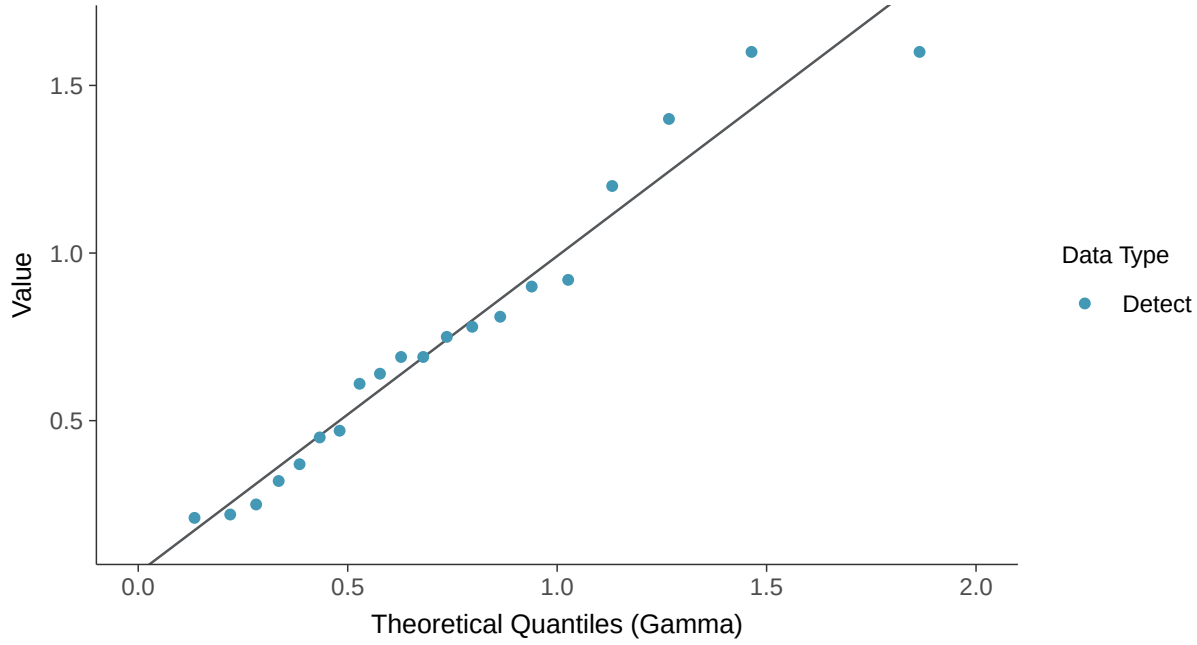
Lognormal Q-Q plot

Fluoride (App IV), MW-11 (mg/L)



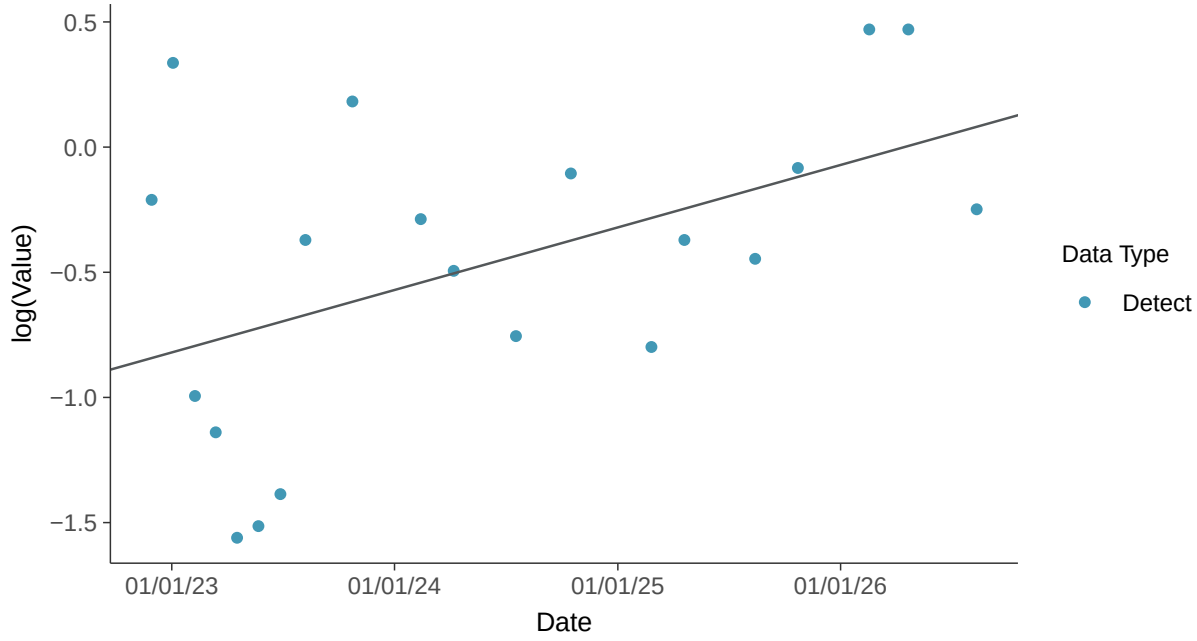
Gamma Q-Q plot

Fluoride (App IV), MW-11 (mg/L)



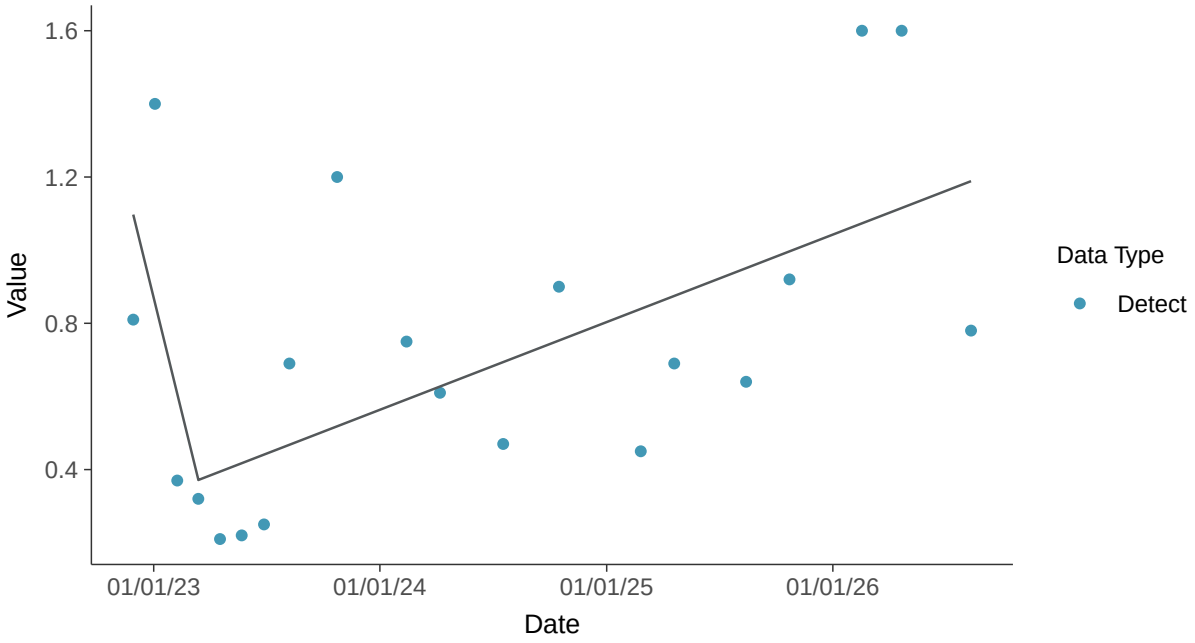
Trend Regression: Lognormal MLE

Fluoride (App IV), MW-11 (mg/L)



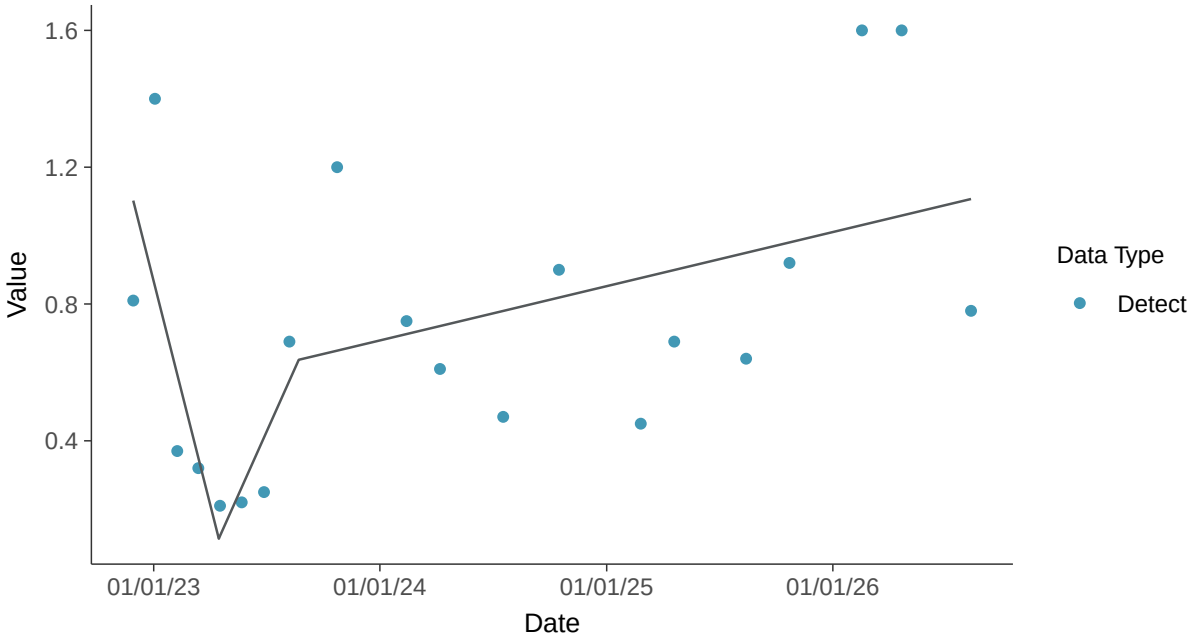
Trend Regression: Piecewise Linear-Linear

Fluoride (App IV), MW-11 (mg/L)



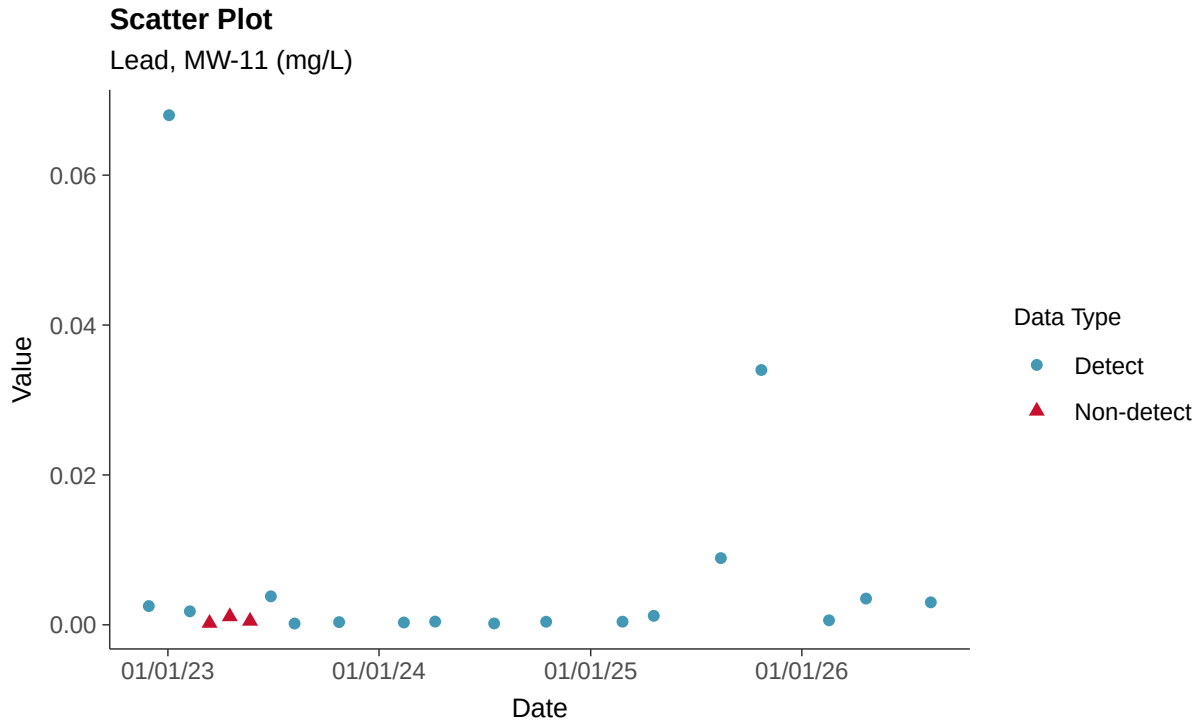
Trend Regression: Piecewise Linear-Linear-Linear

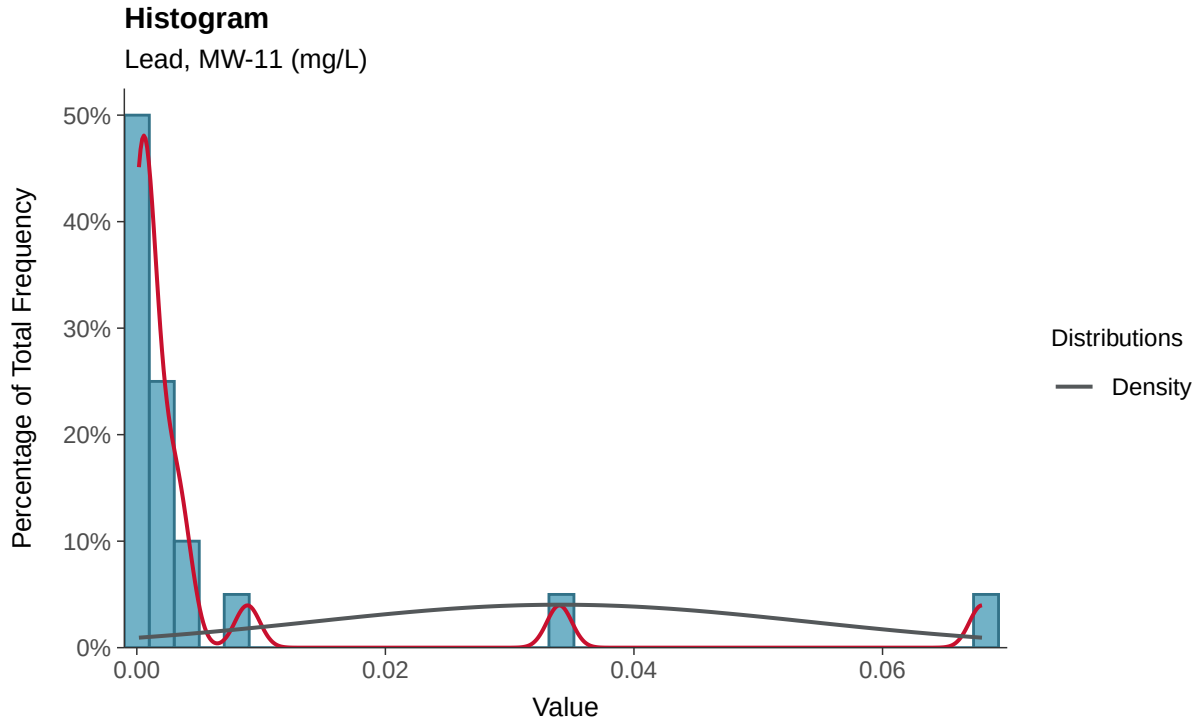
Fluoride (App IV), MW-11 (mg/L)



Appendix IV: Lead, MW-11

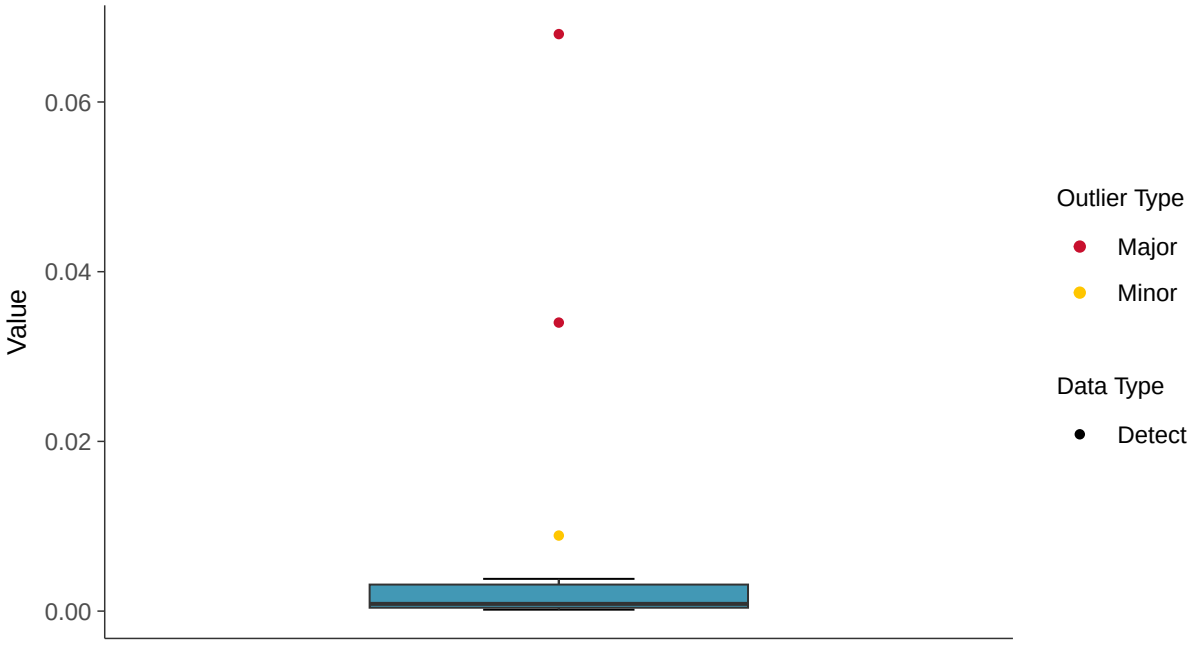
ID: 21_2_4_115





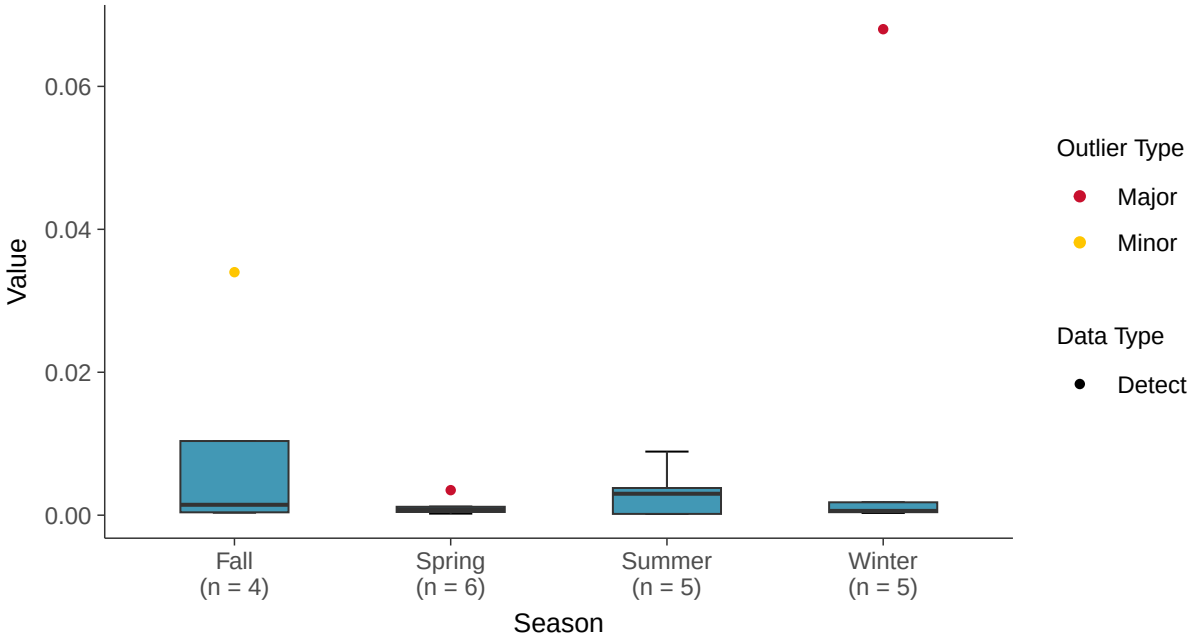
Boxplot

Lead, MW-11 (mg/L)



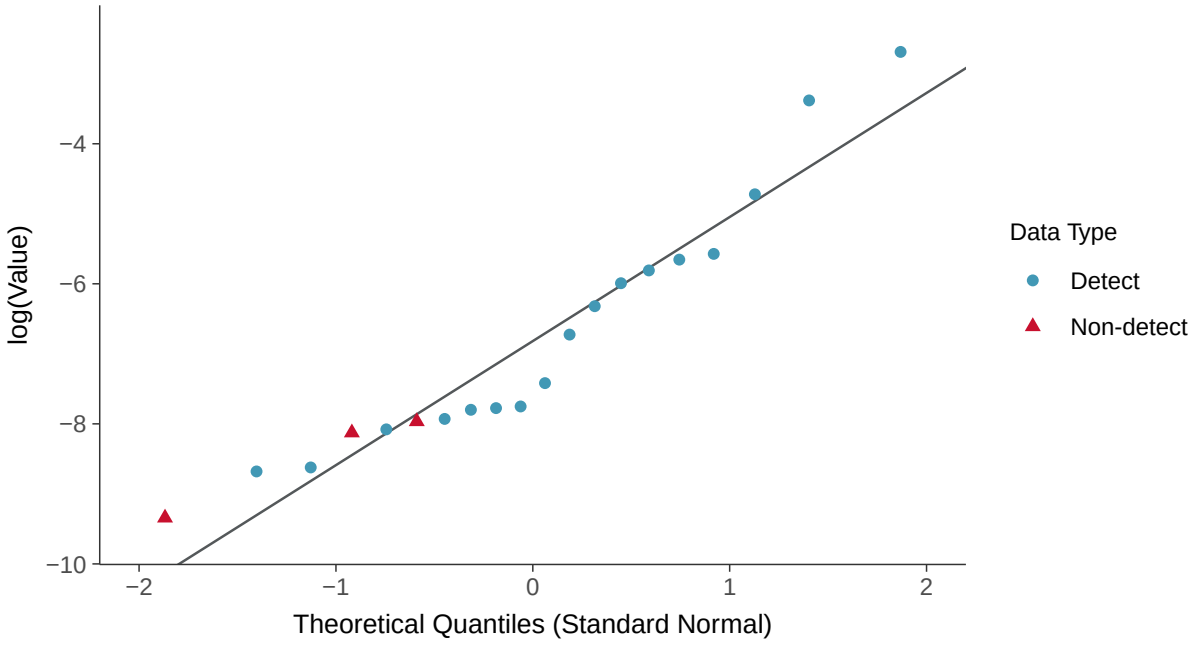
Boxplot by Season

Lead, MW-11 (mg/L)



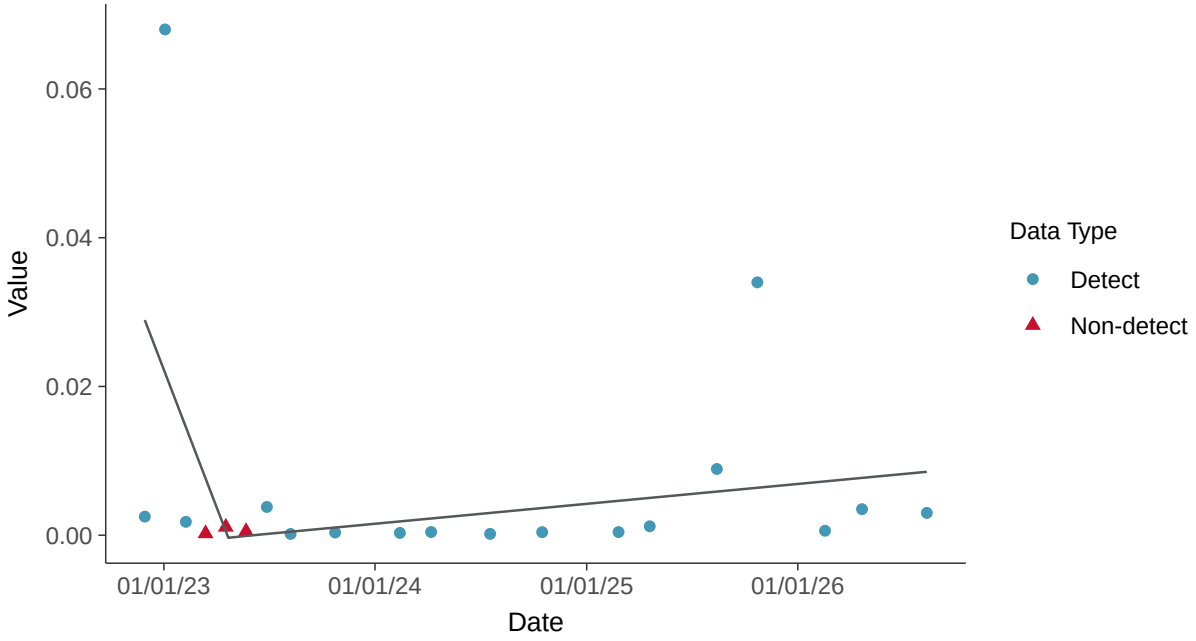
Lognormal Q-Q plot using ROS Imputed Estimates

Lead, MW-11 (mg/L)



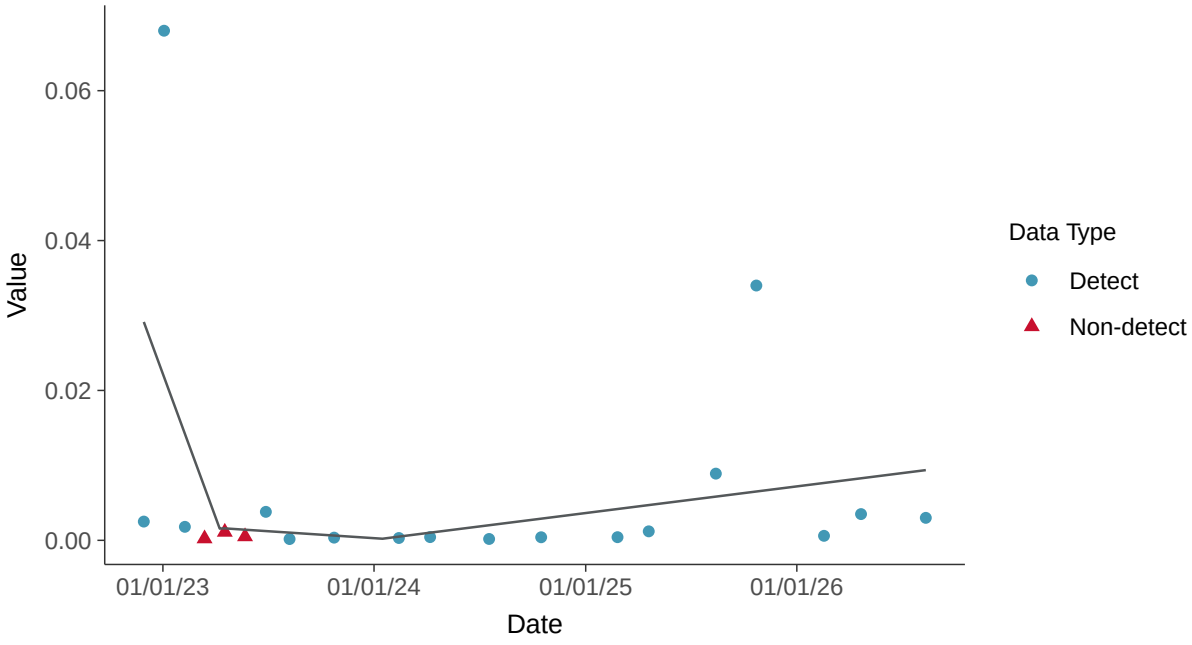
Trend Regression: Piecewise Linear-Linear

Lead, MW-11 (mg/L)



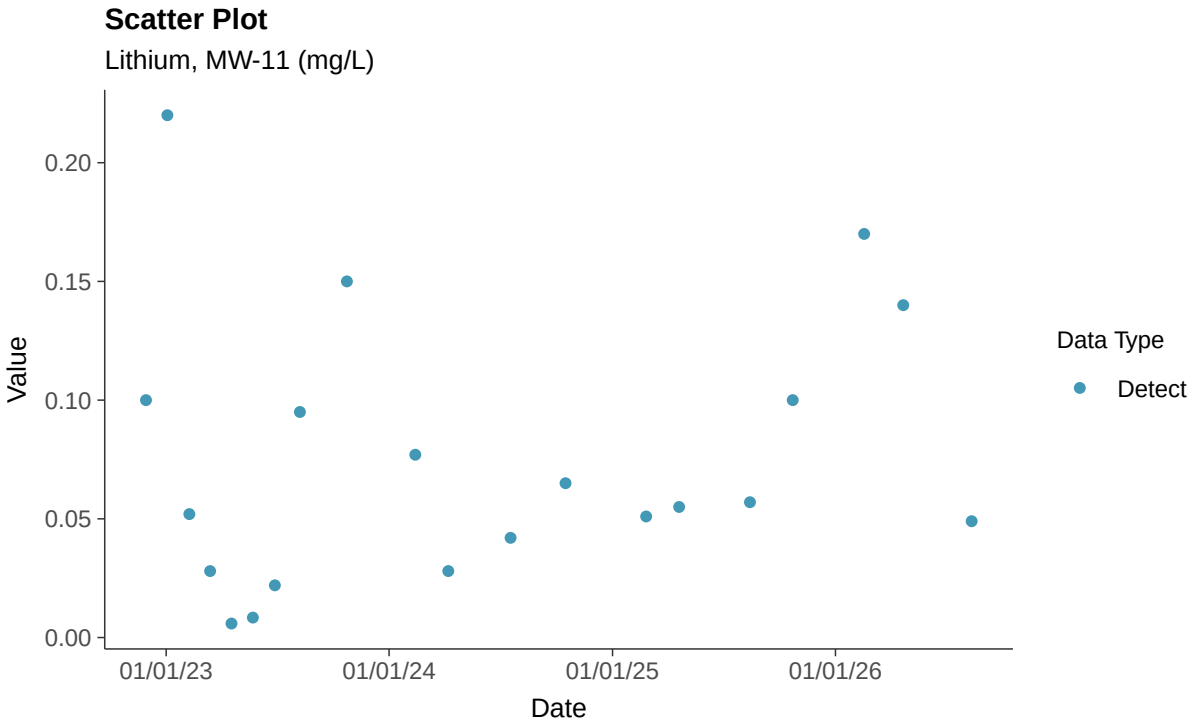
Trend Regression: Piecewise Linear-Linear-Linear

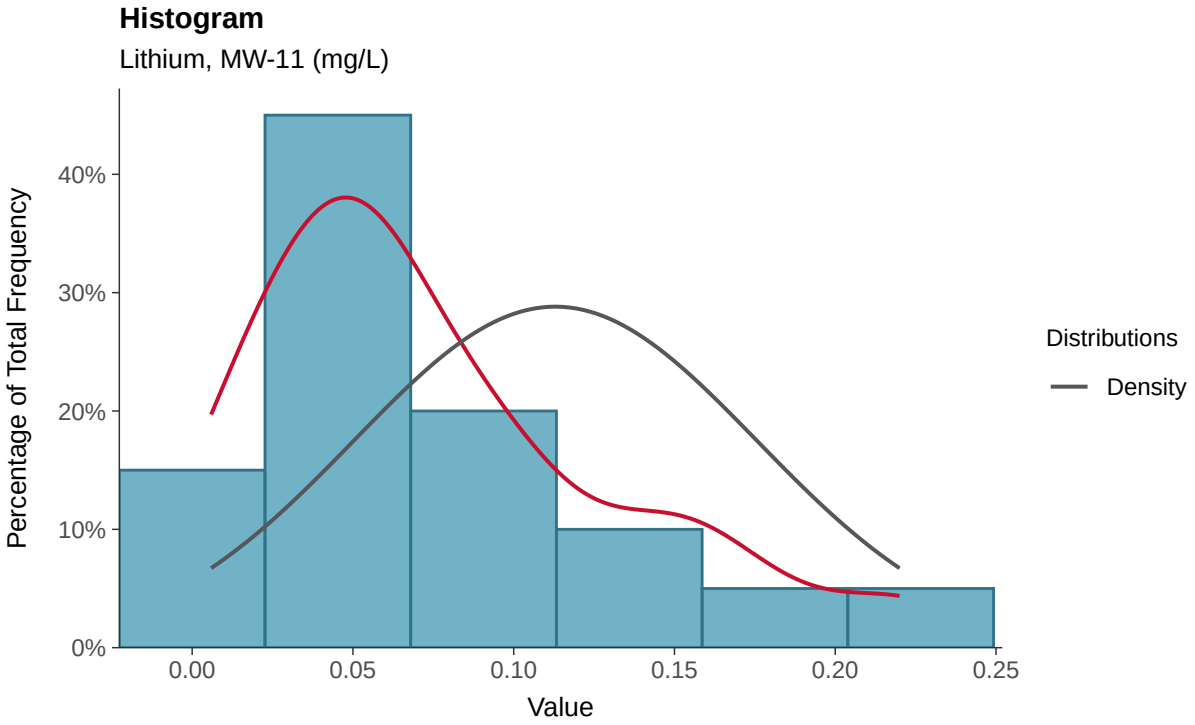
Lead, MW-11 (mg/L)



Appendix IV: Lithium, MW-11

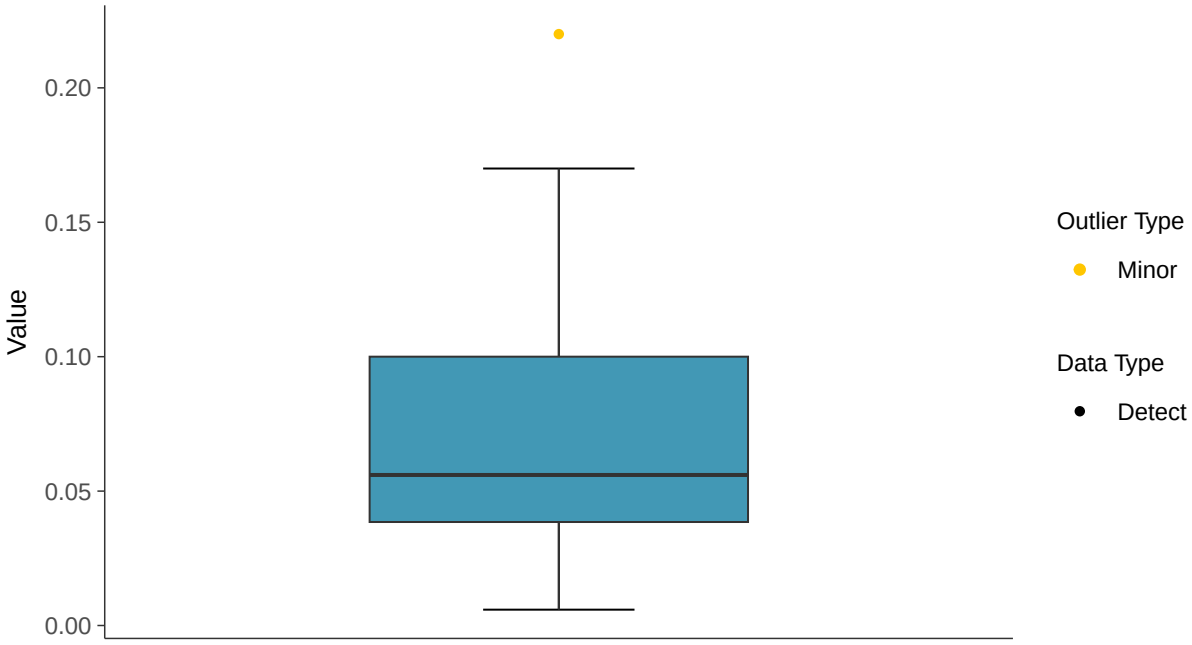
ID: 21_2_4_116





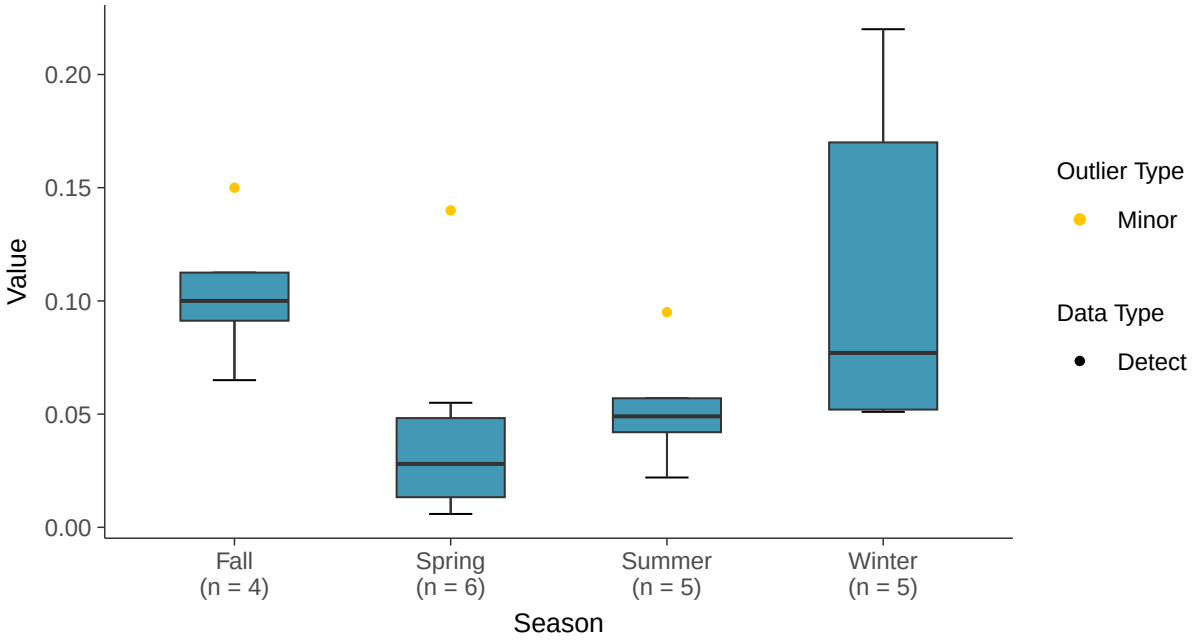
Boxplot

Lithium, MW-11 (mg/L)



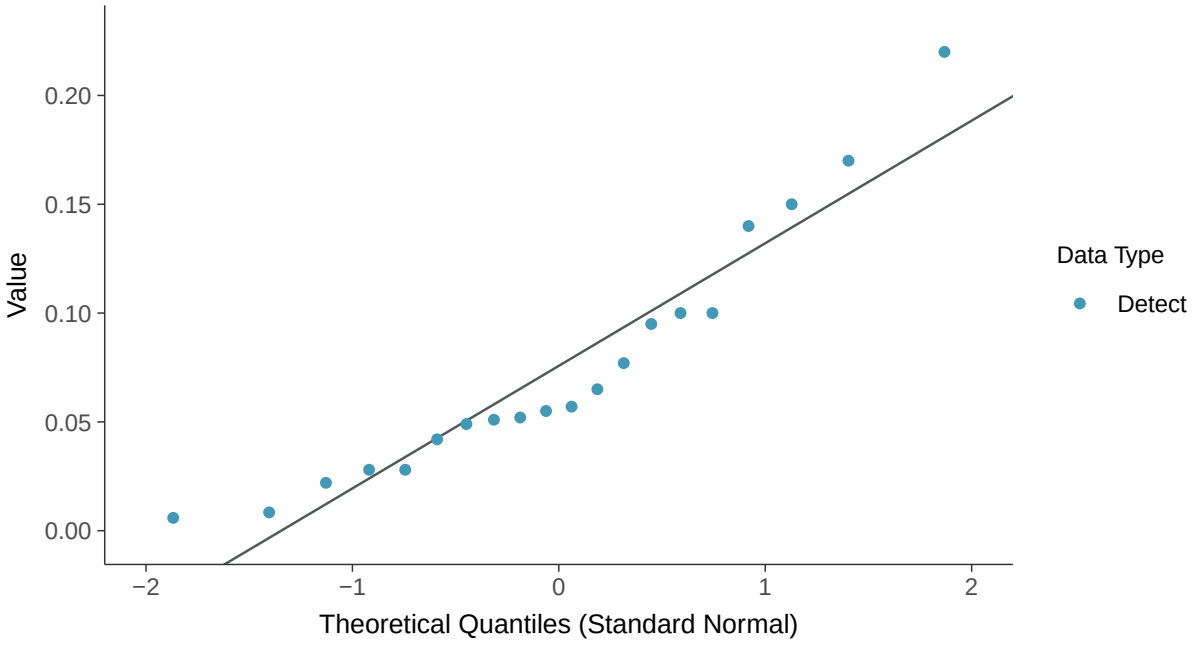
Boxplot by Season

Lithium, MW-11 (mg/L)



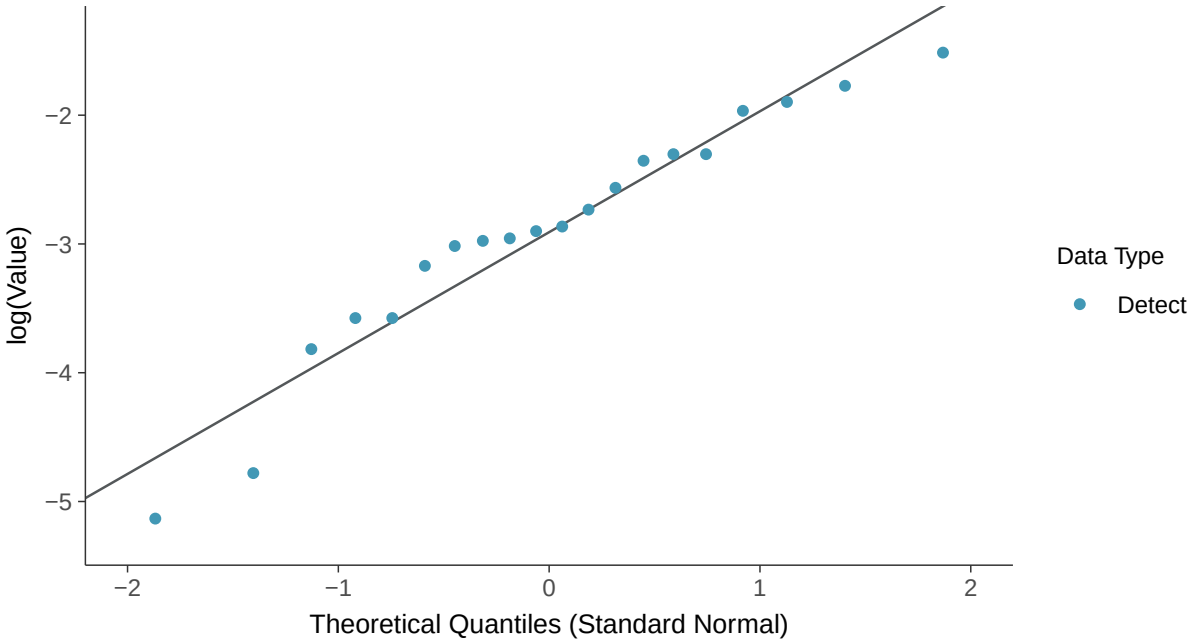
Normal Q-Q plot

Lithium, MW-11 (mg/L)



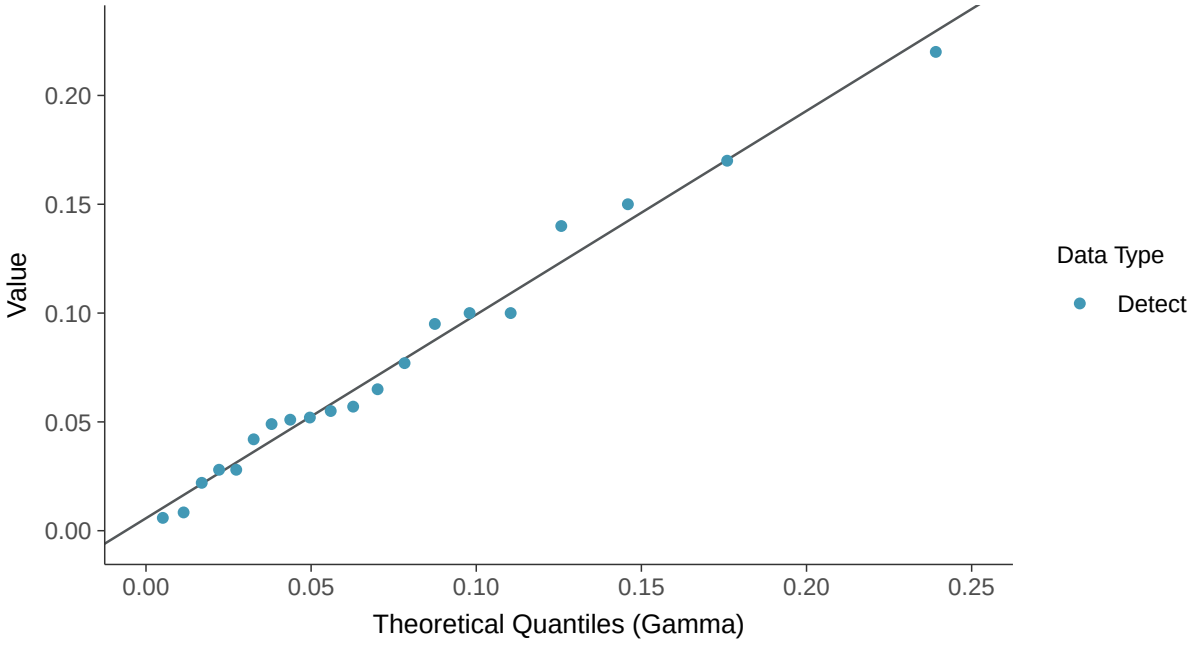
Lognormal Q-Q plot

Lithium, MW-11 (mg/L)



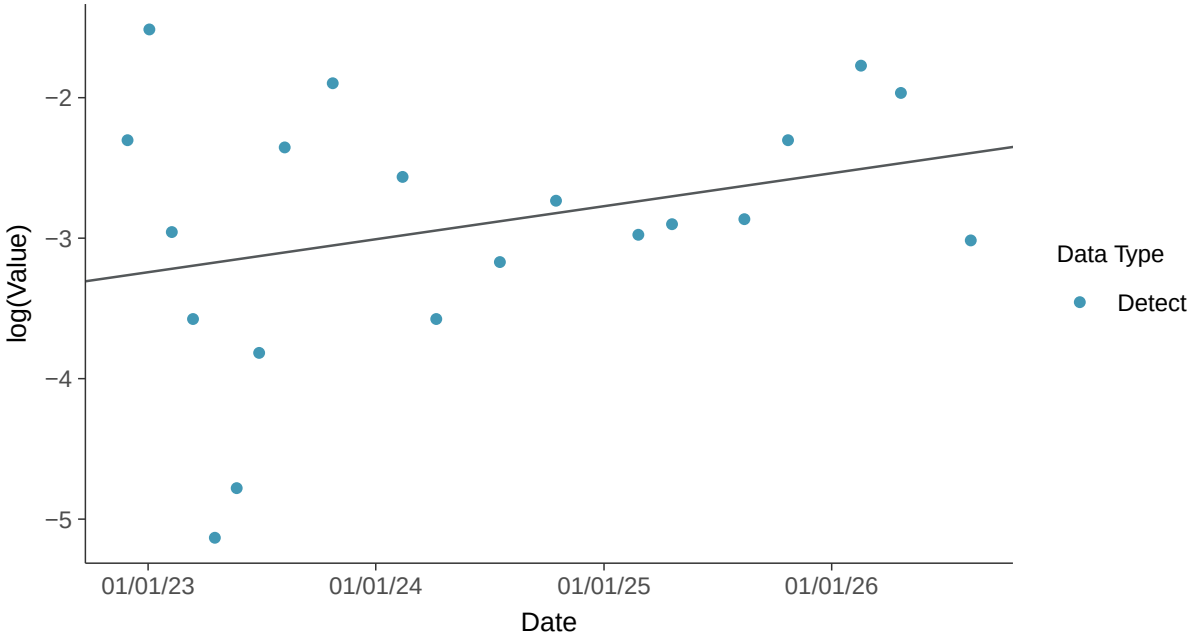
Gamma Q-Q plot

Lithium, MW-11 (mg/L)



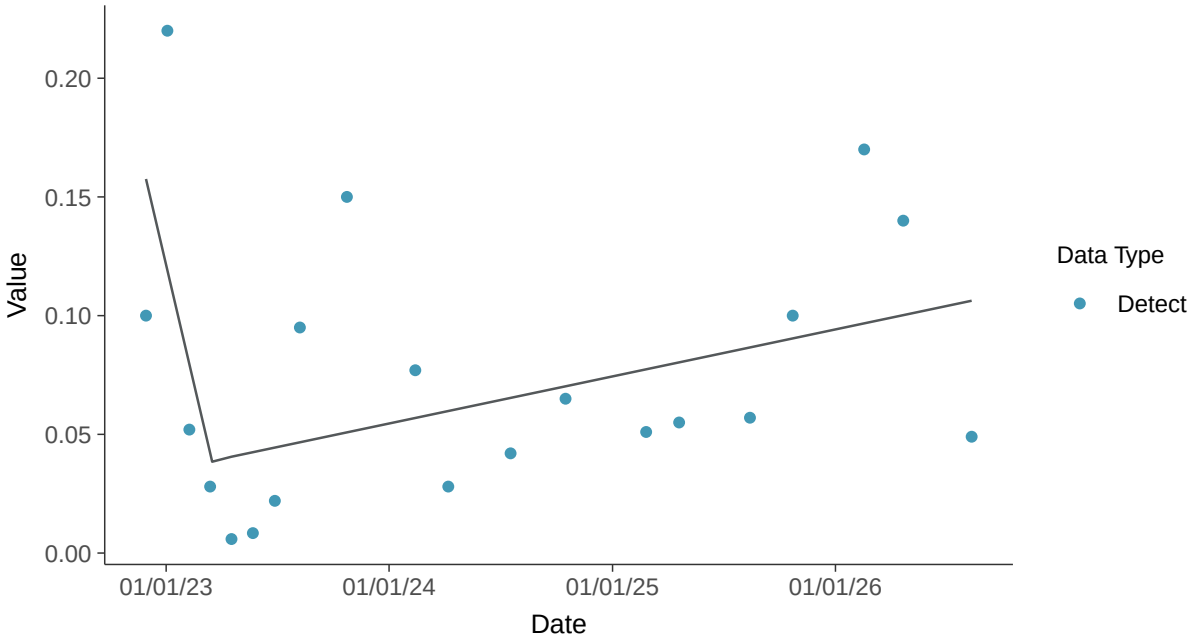
Trend Regression: Lognormal MLE

Lithium, MW-11 (mg/L)



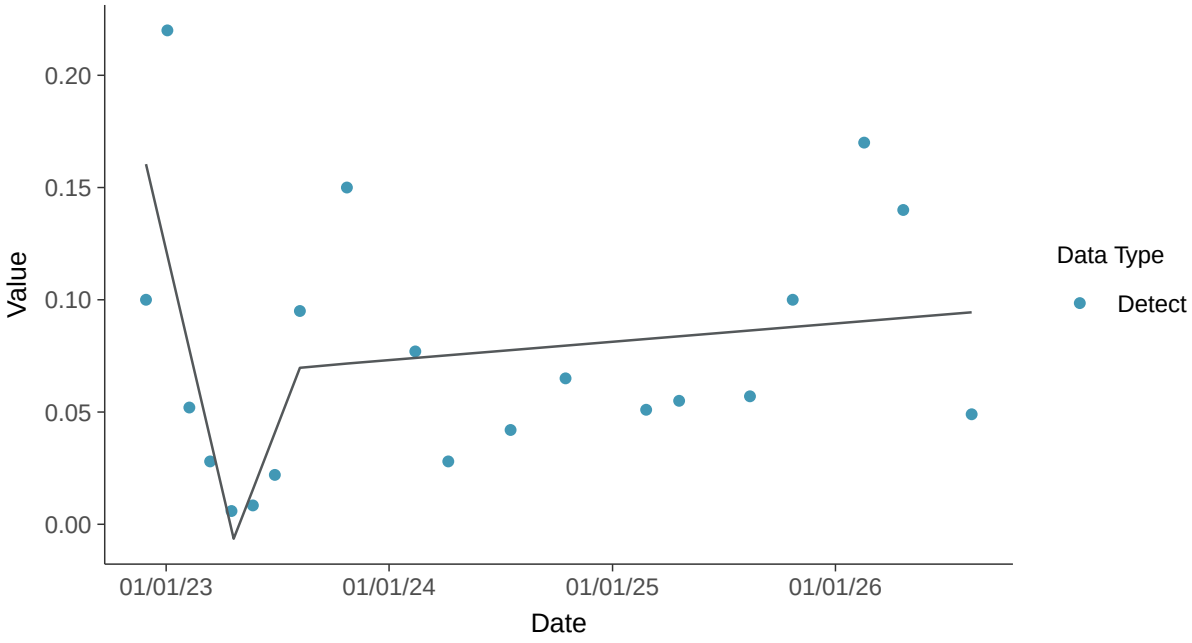
Trend Regression: Piecewise Linear-Linear

Lithium, MW-11 (mg/L)



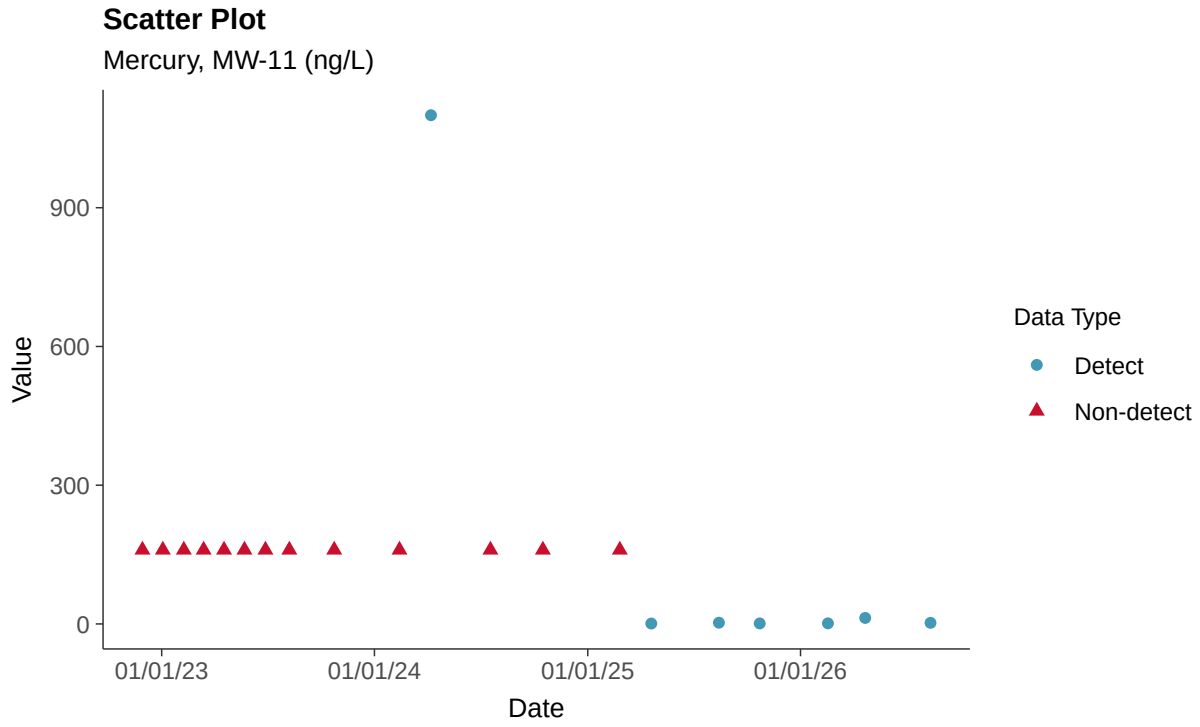
Trend Regression: Piecewise Linear-Linear-Linear

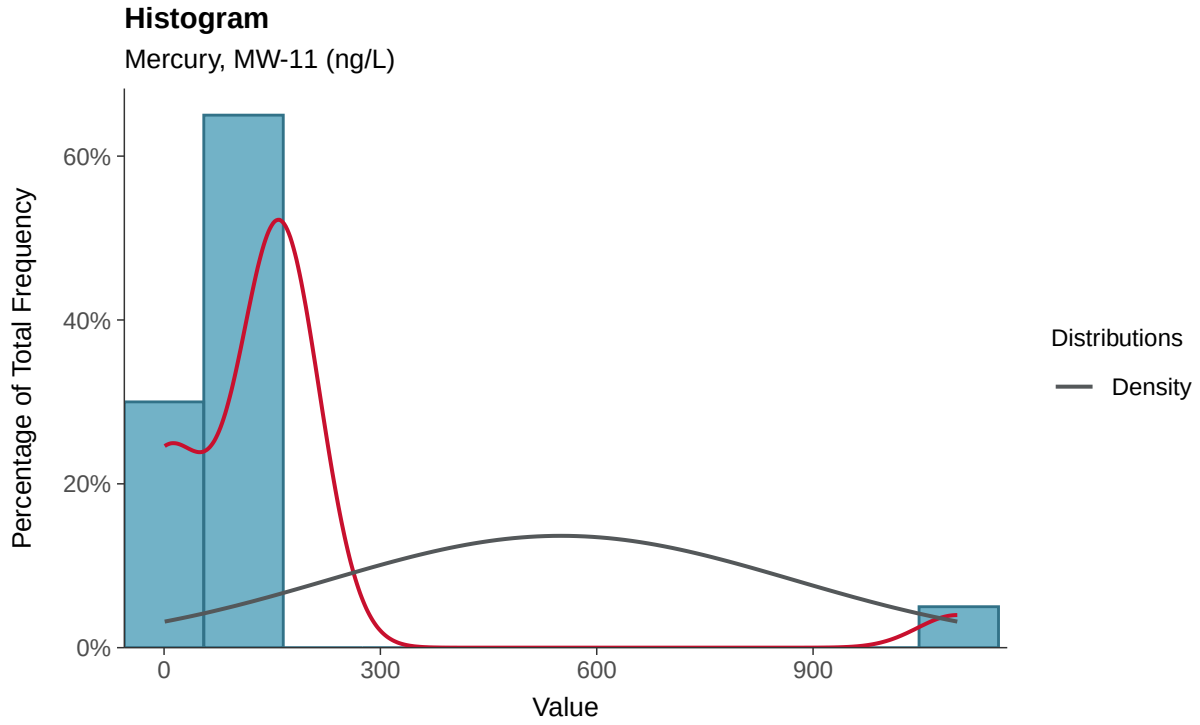
Lithium, MW-11 (mg/L)



Appendix IV: Mercury, MW-11

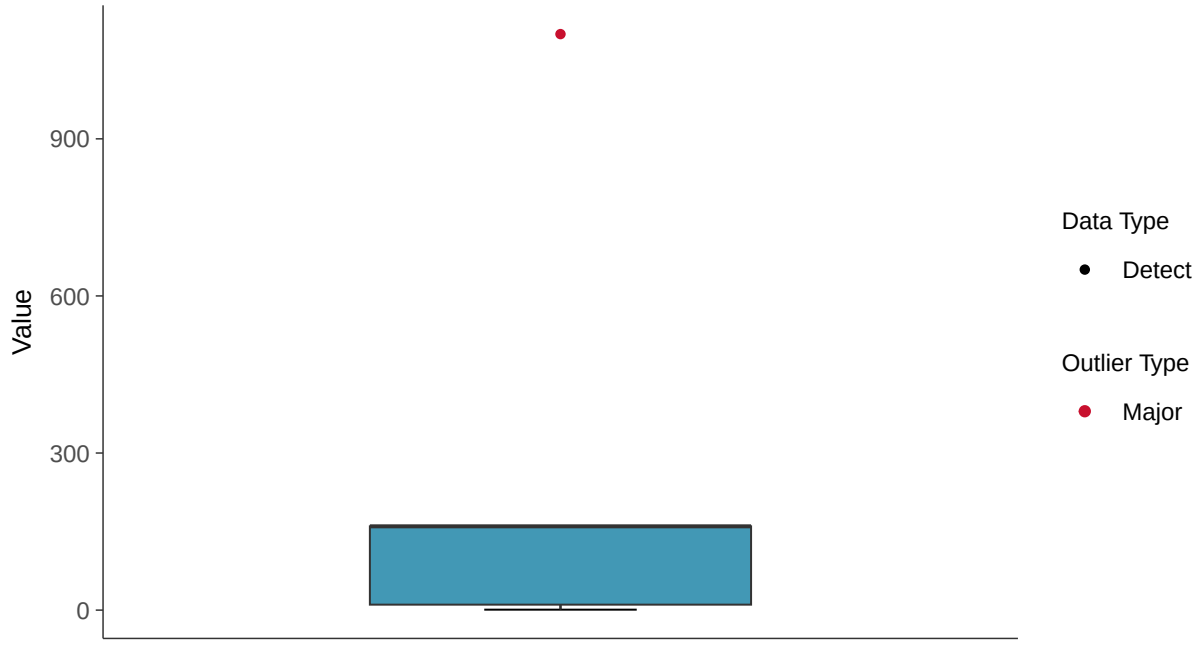
ID: 21_2_4_117





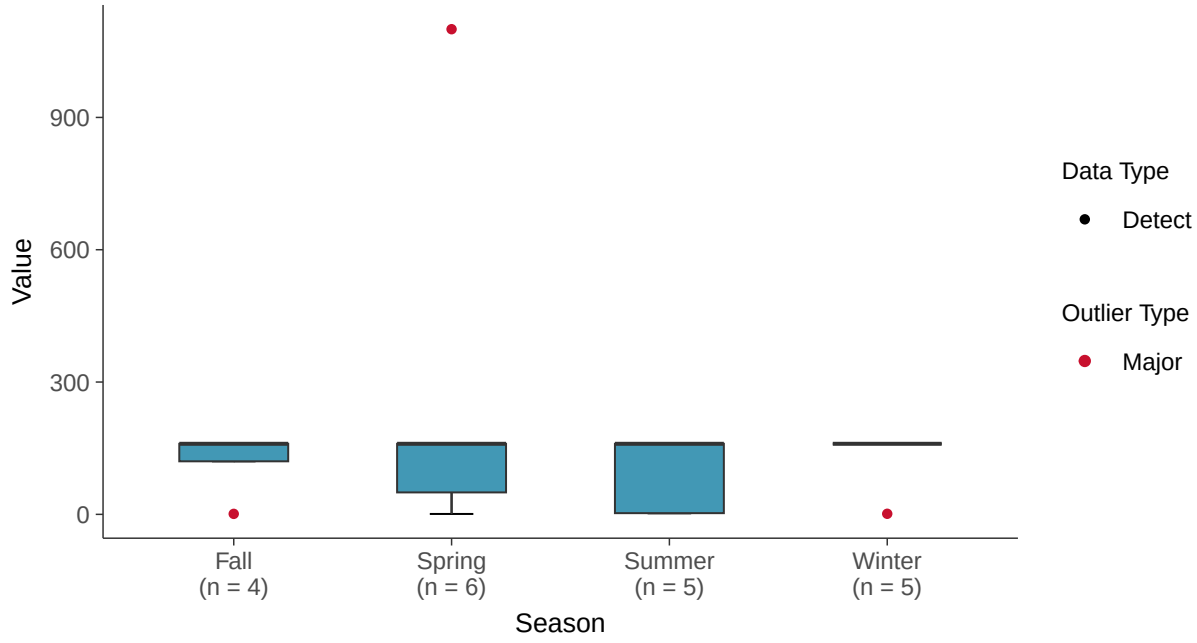
Boxplot

Mercury, MW-11 (ng/L)



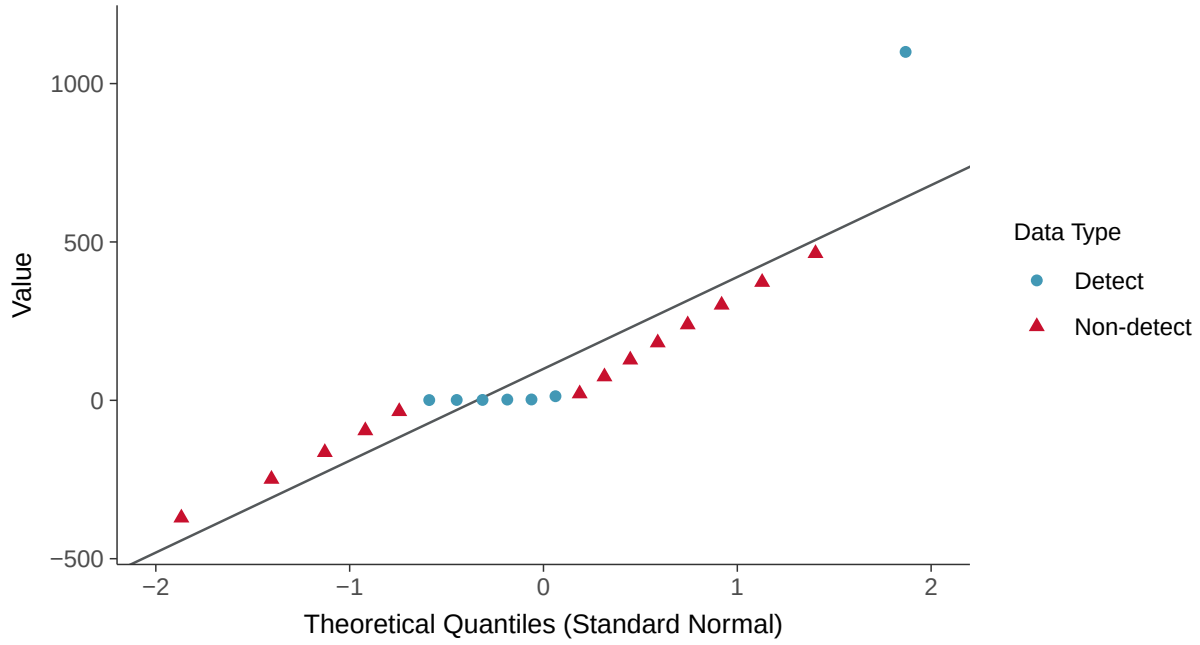
Boxplot by Season

Mercury, MW-11 (ng/L)



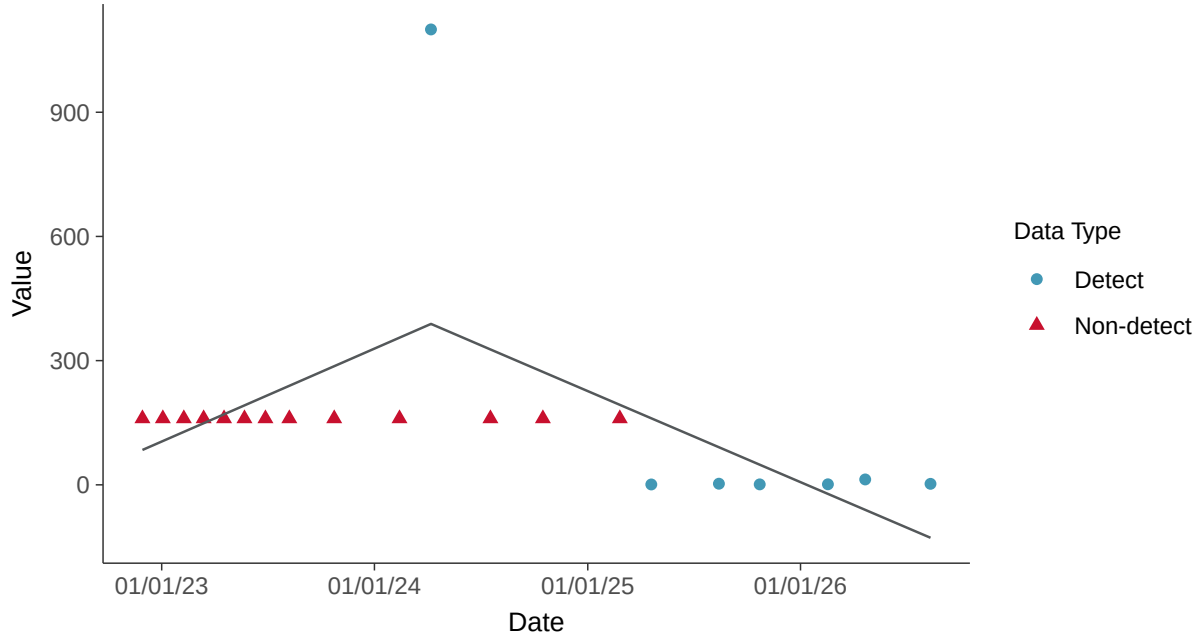
Normal Q-Q plot using ROS Imputed Estimates

Mercury, MW-11 (ng/L)



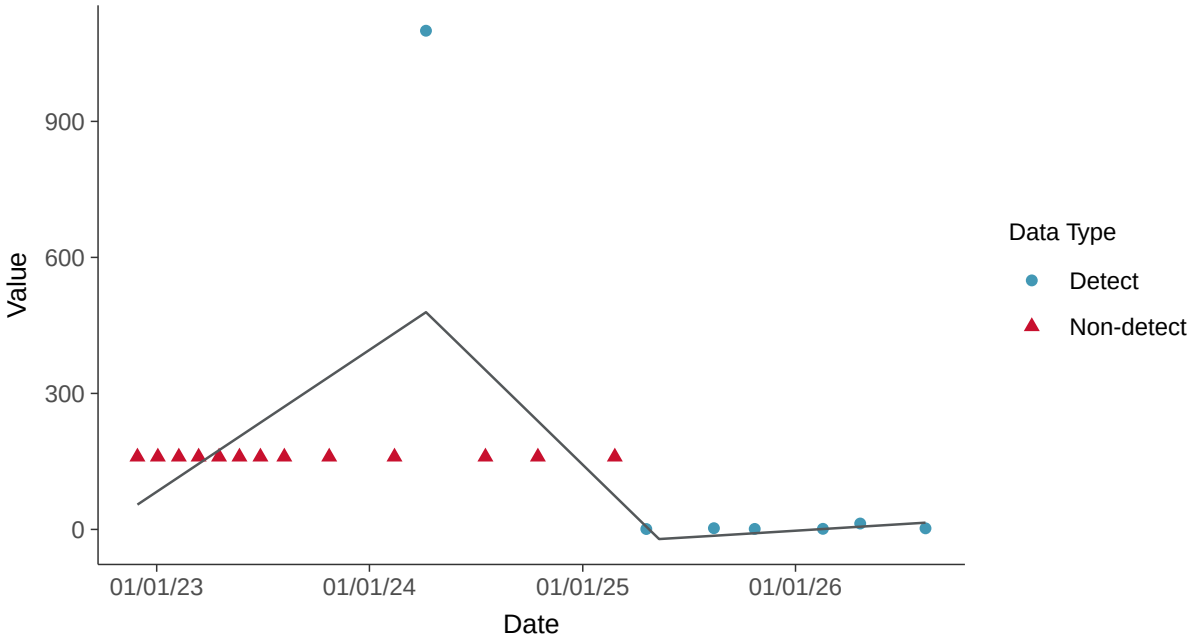
Trend Regression: Piecewise Linear-Linear

Mercury, MW-11 (ng/L)



Trend Regression: Piecewise Linear-Linear-Linear

Mercury, MW-11 (ng/L)

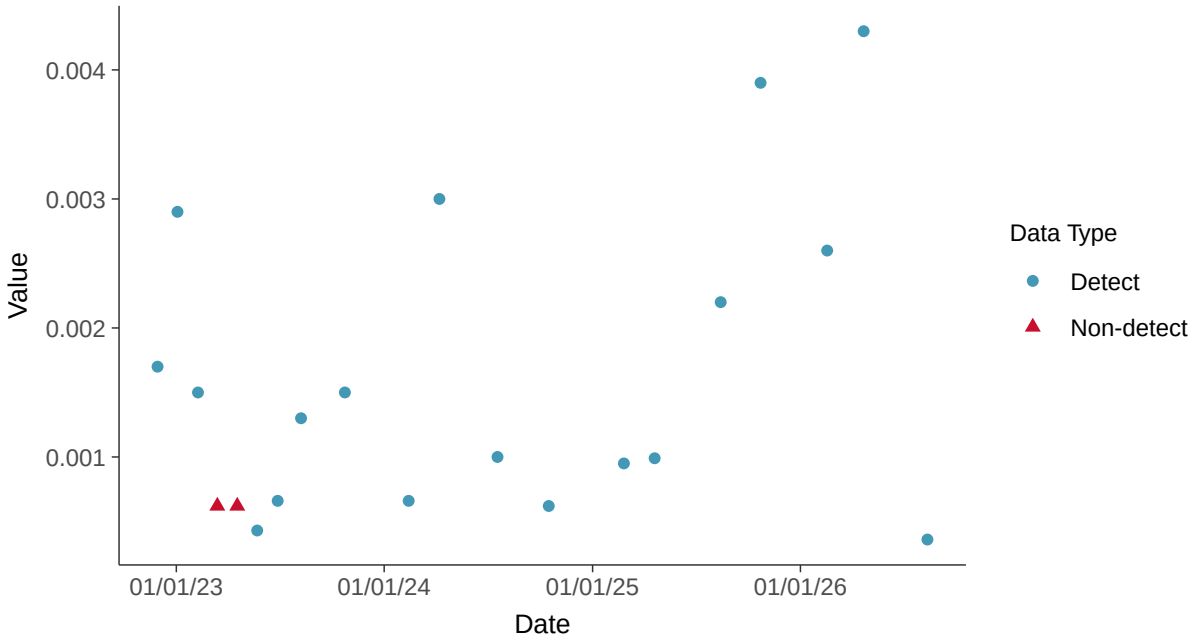


Appendix IV: Molybdenum, MW-11

ID: 21_2_4_118

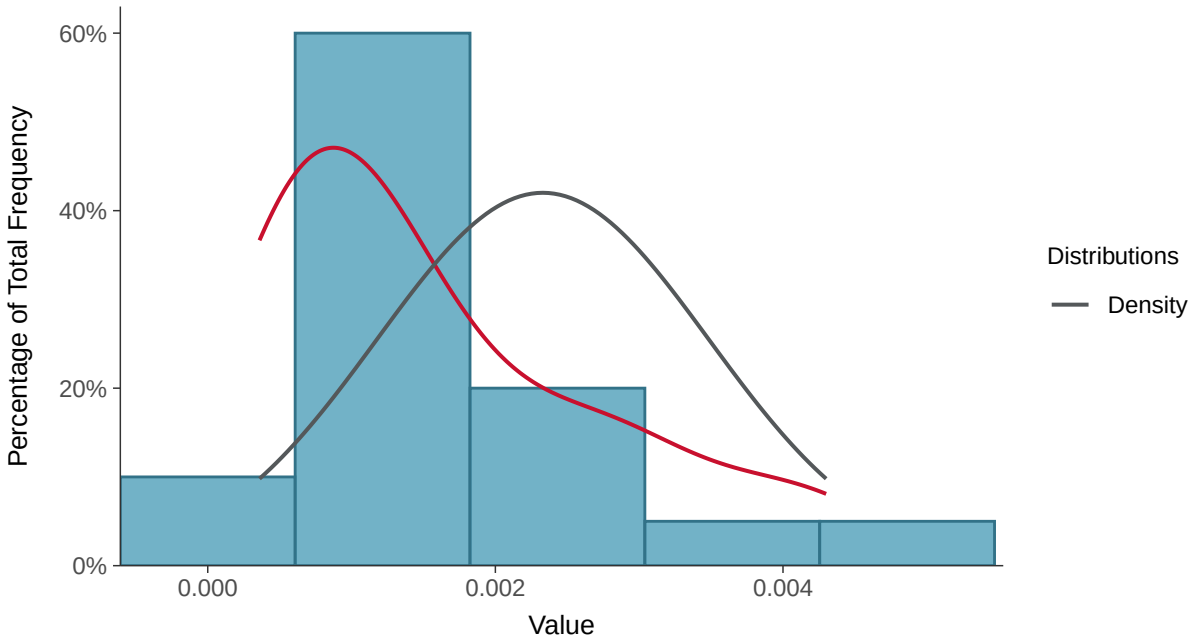
Scatter Plot

Molybdenum, MW-11 (mg/L)



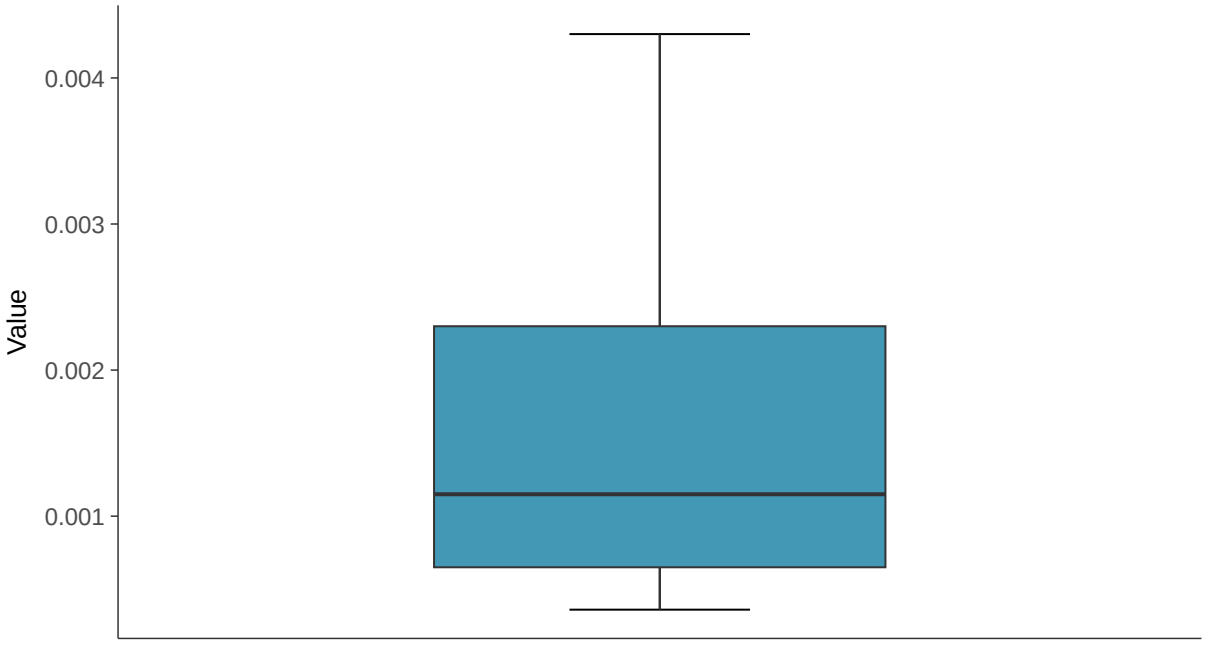
Histogram

Molybdenum, MW-11 (mg/L)



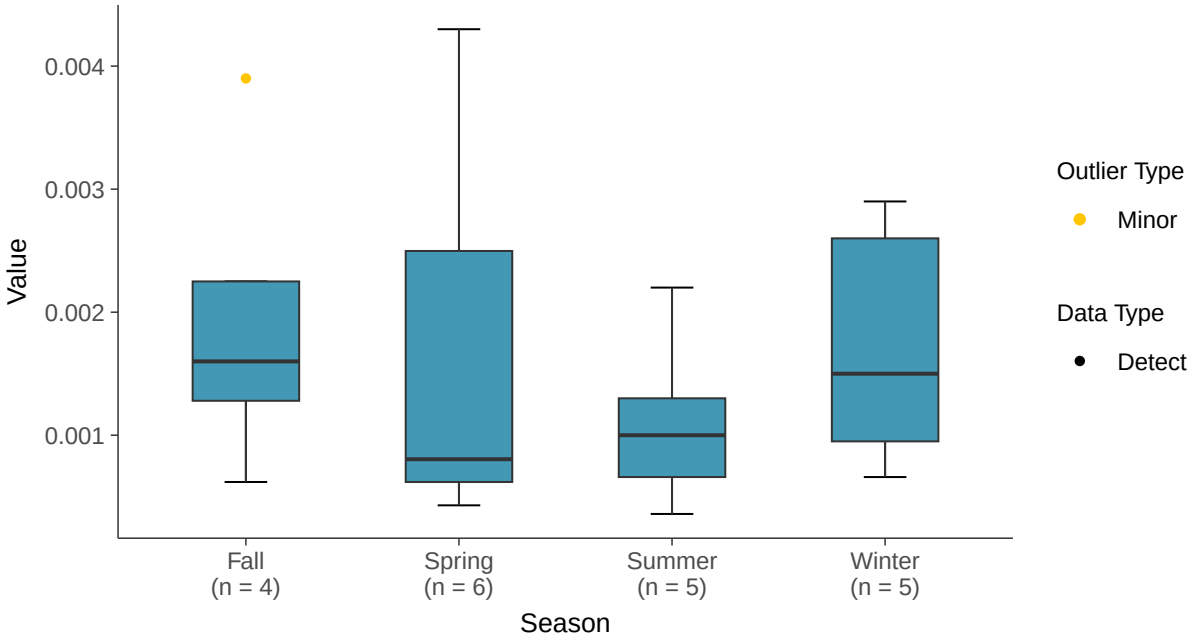
Boxplot

Molybdenum, MW-11 (mg/L)



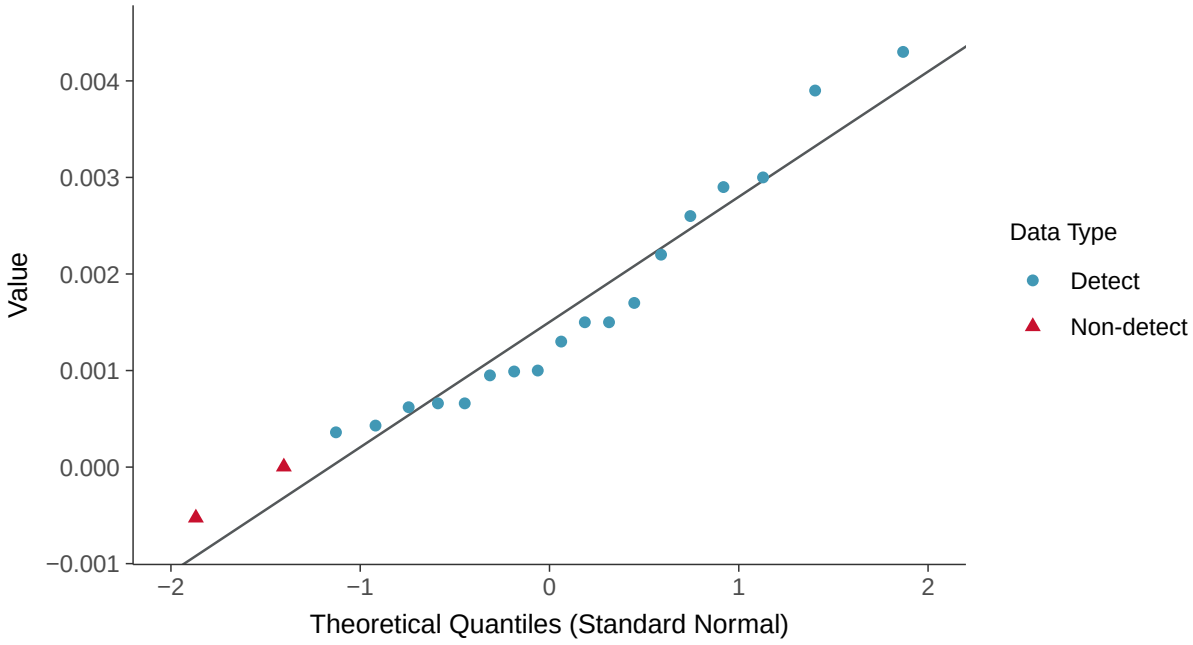
Boxplot by Season

Molybdenum, MW-11 (mg/L)



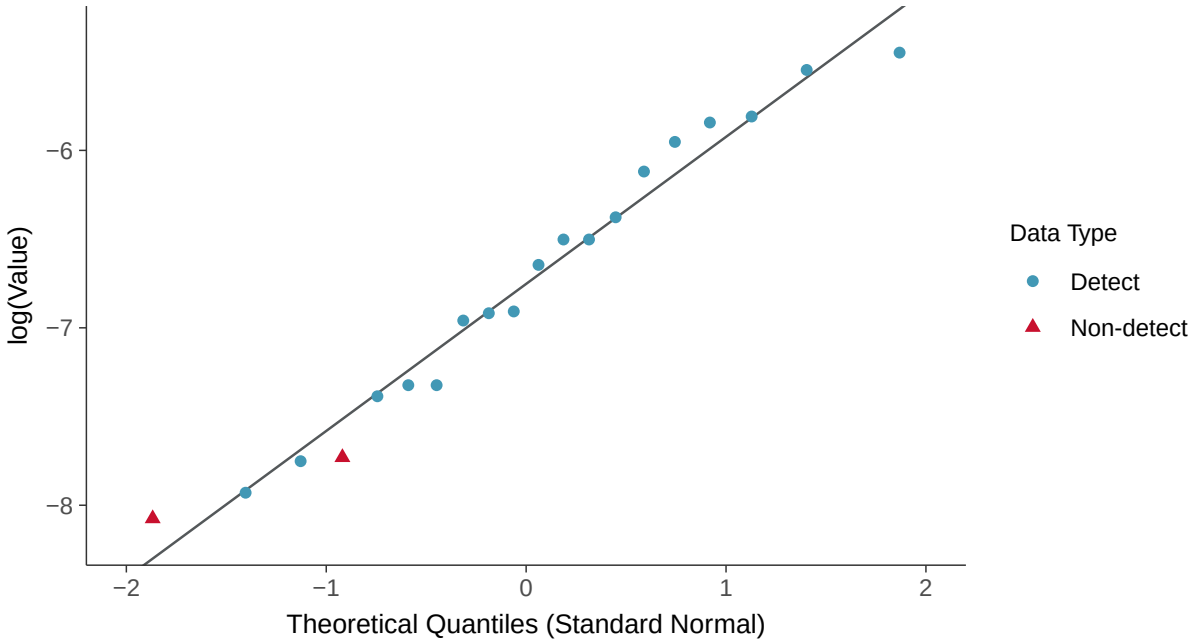
Normal Q-Q plot using ROS Imputed Estimates

Molybdenum, MW-11 (mg/L)



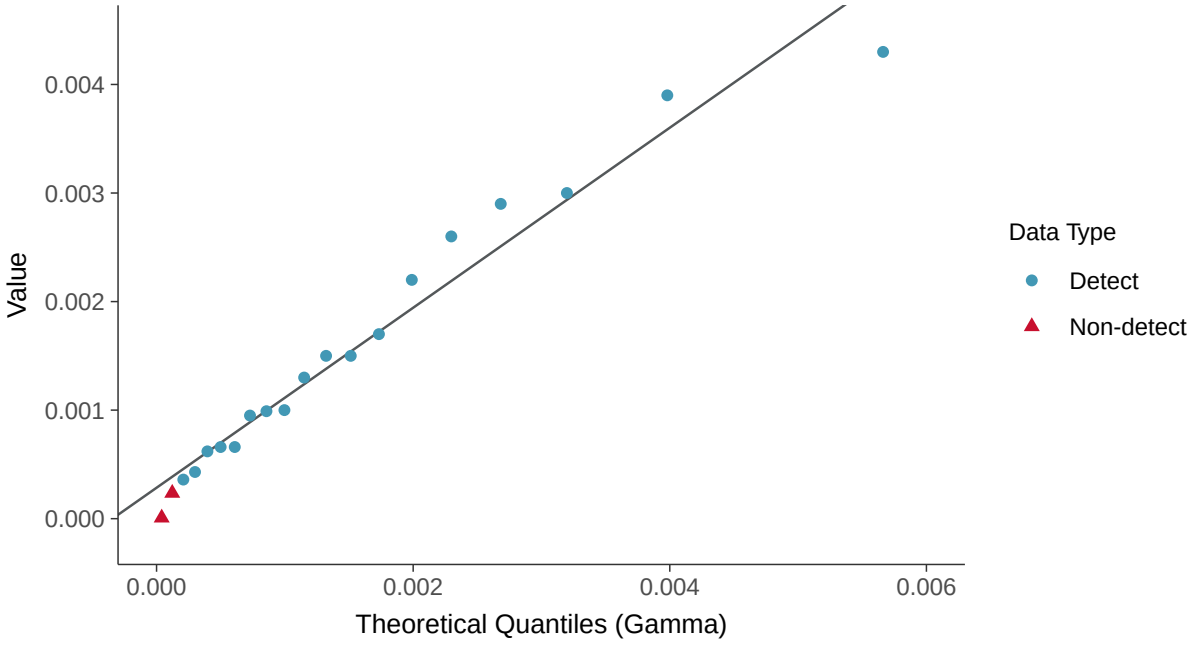
Lognormal Q-Q plot using ROS Imputed Estimates

Molybdenum, MW-11 (mg/L)



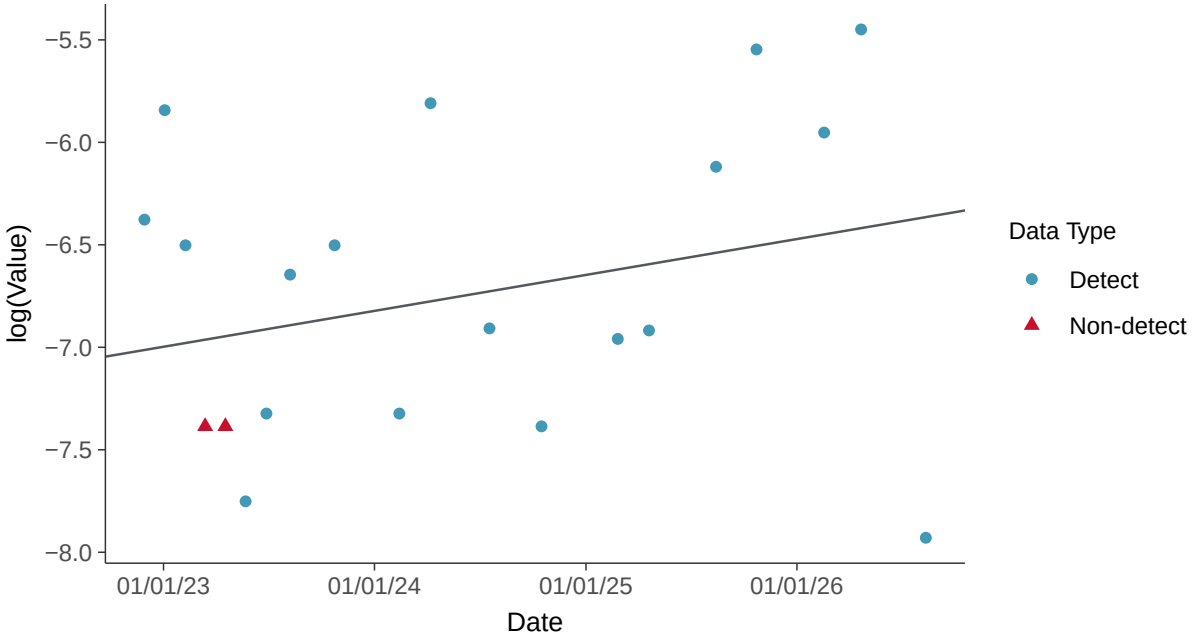
Gamma Q-Q plot using ROS Imputed Estimates

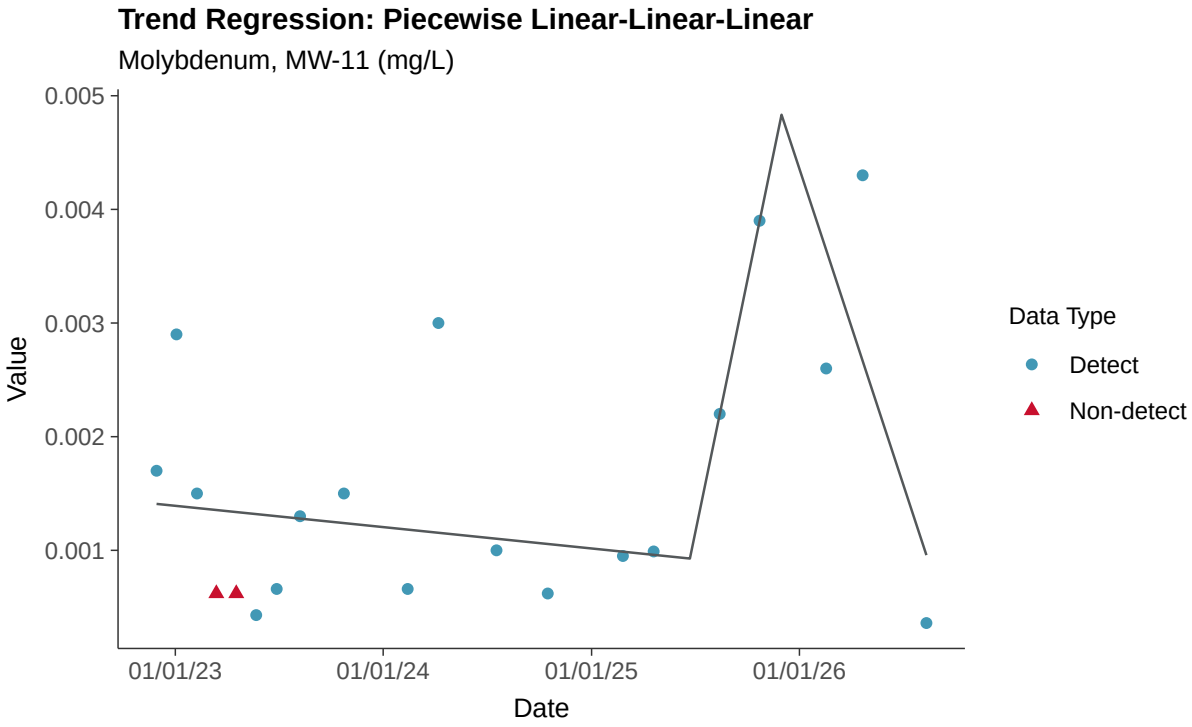
Molybdenum, MW-11 (mg/L)



Trend Regression: Lognormal MLE

Molybdenum, MW-11 (mg/L)



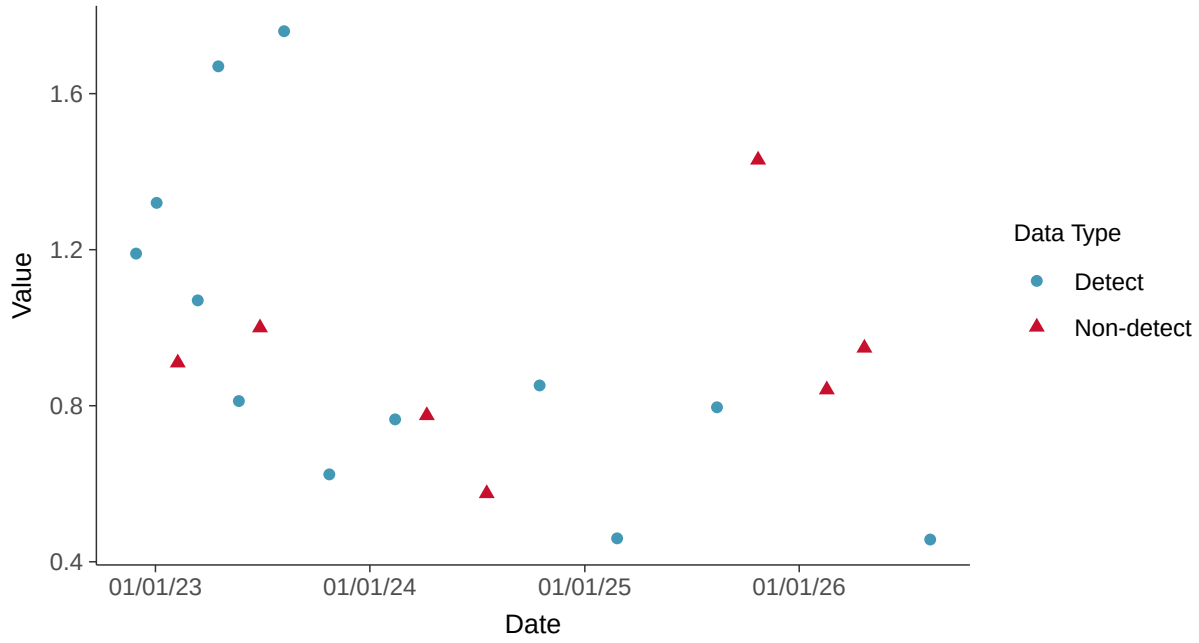

Trend Regression: Piecewise Linear-Linear-Linear
Molybdenum, MW-11 (mg/L)
Value
0.005
0.004
0.003
0.002
0.001
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect
Non-detect

Appendix IV: Radium 226 and 228, MW-11

ID: 21_2_4_121

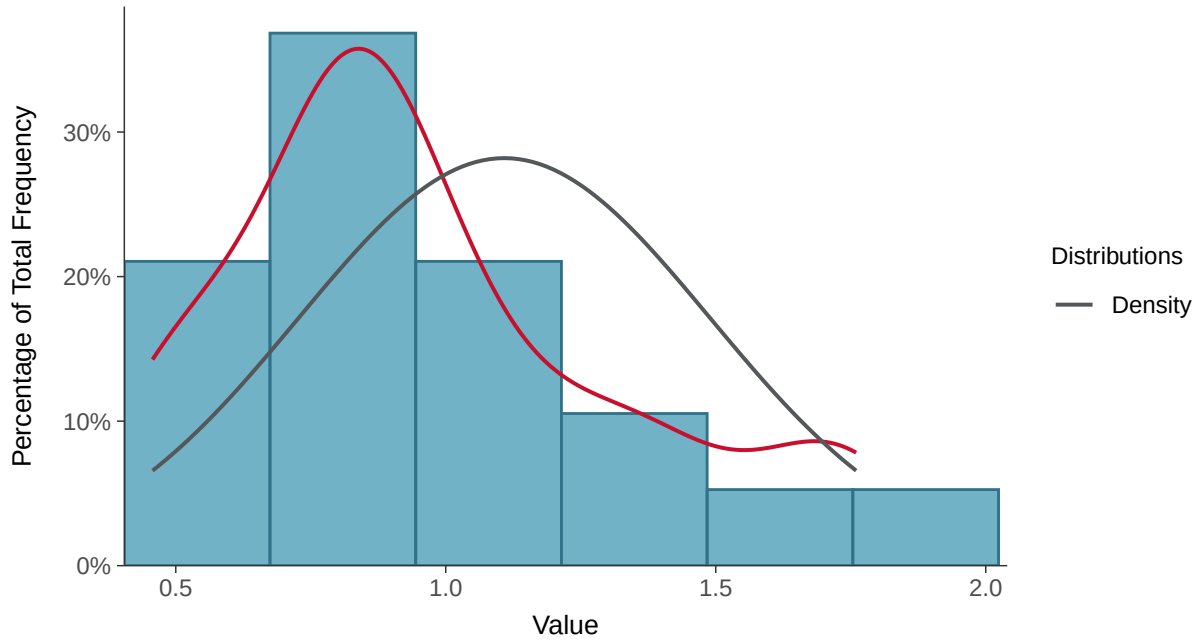
Scatter Plot

Radium 226 and 228, MW-11 (pCi/L)



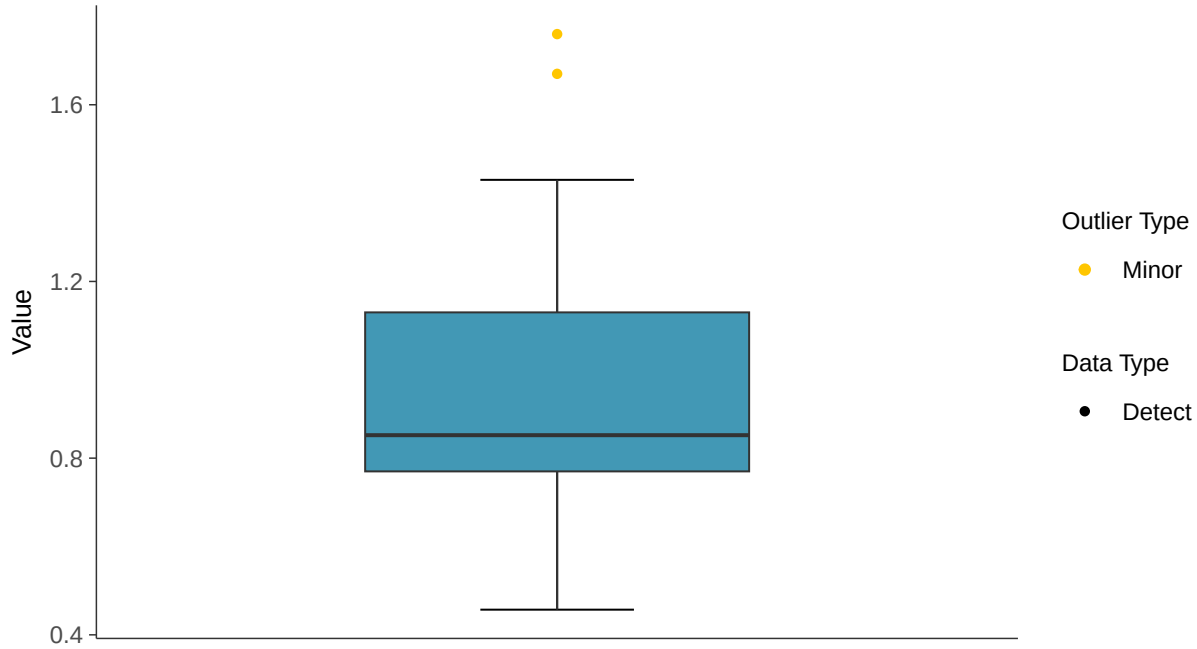
Histogram

Radium 226 and 228, MW-11 (pCi/L)



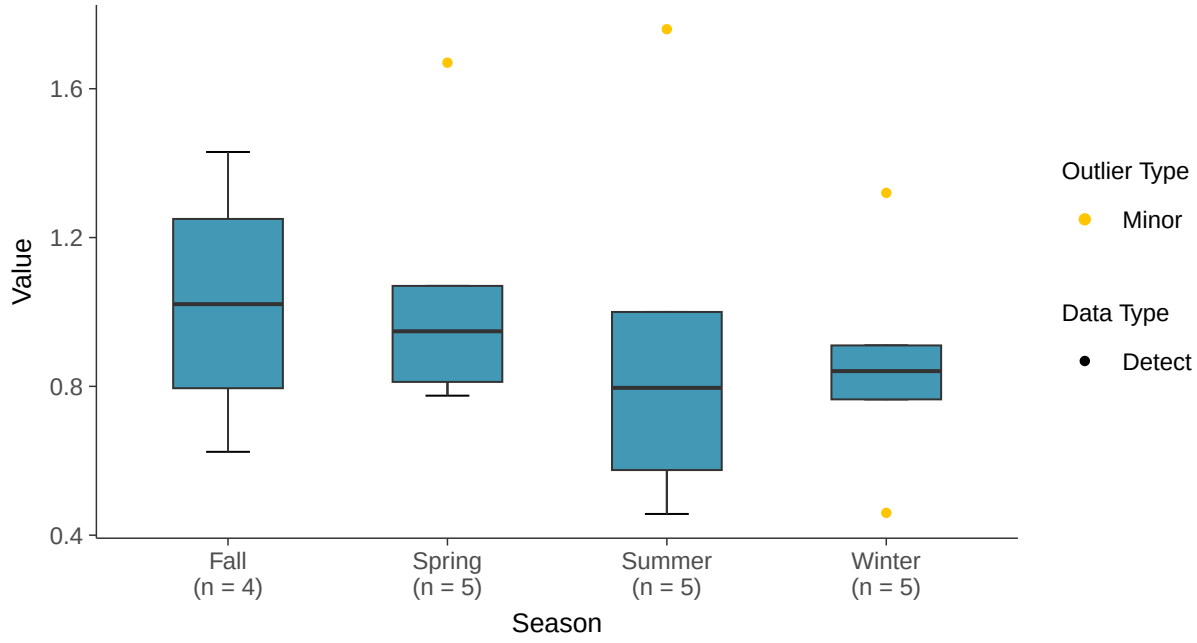
Boxplot

Radium 226 and 228, MW-11 (pCi/L)



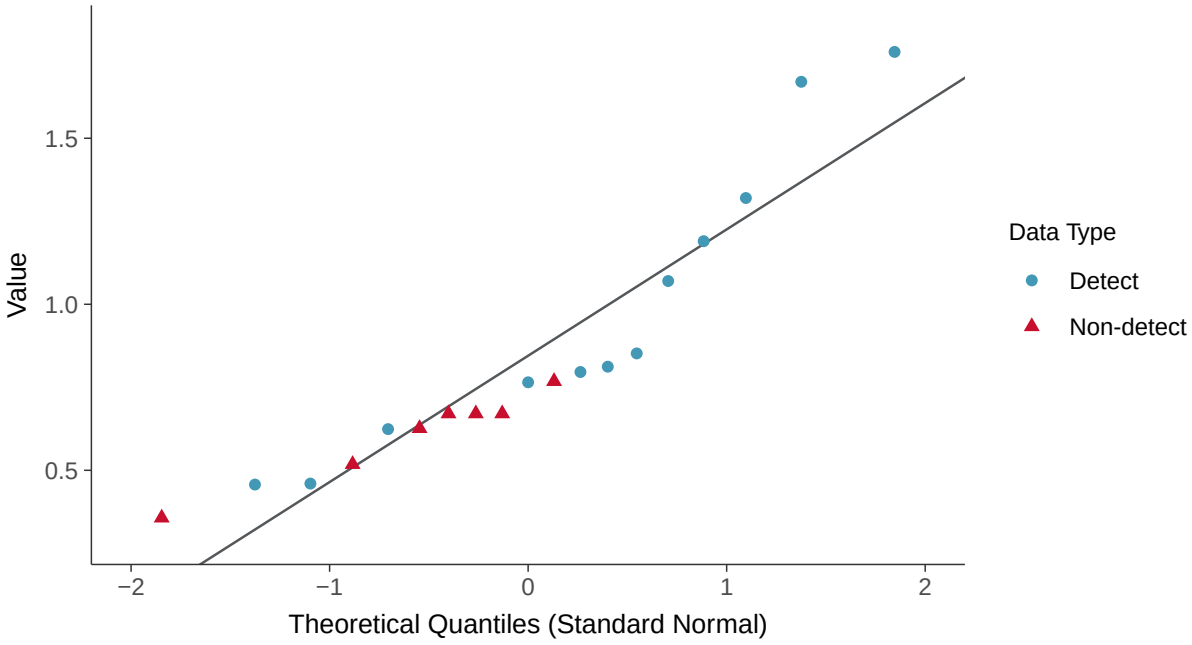
Boxplot by Season

Radium 226 and 228, MW-11 (pCi/L)



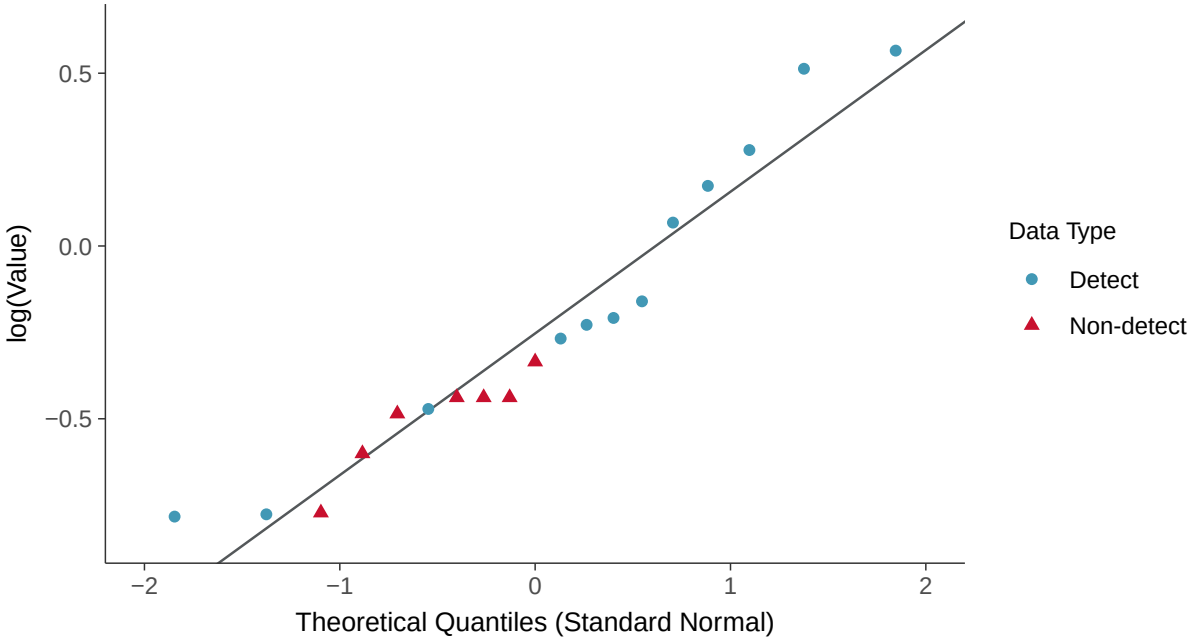
Normal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-11 (pCi/L)



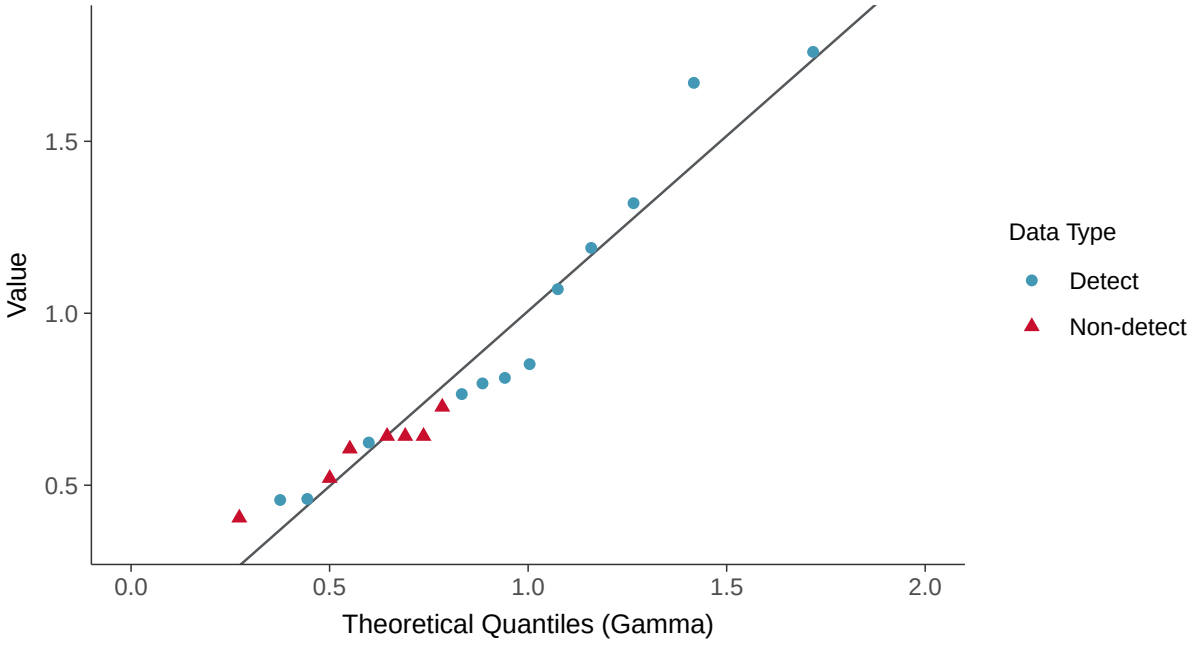
Lognormal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-11 (pCi/L)



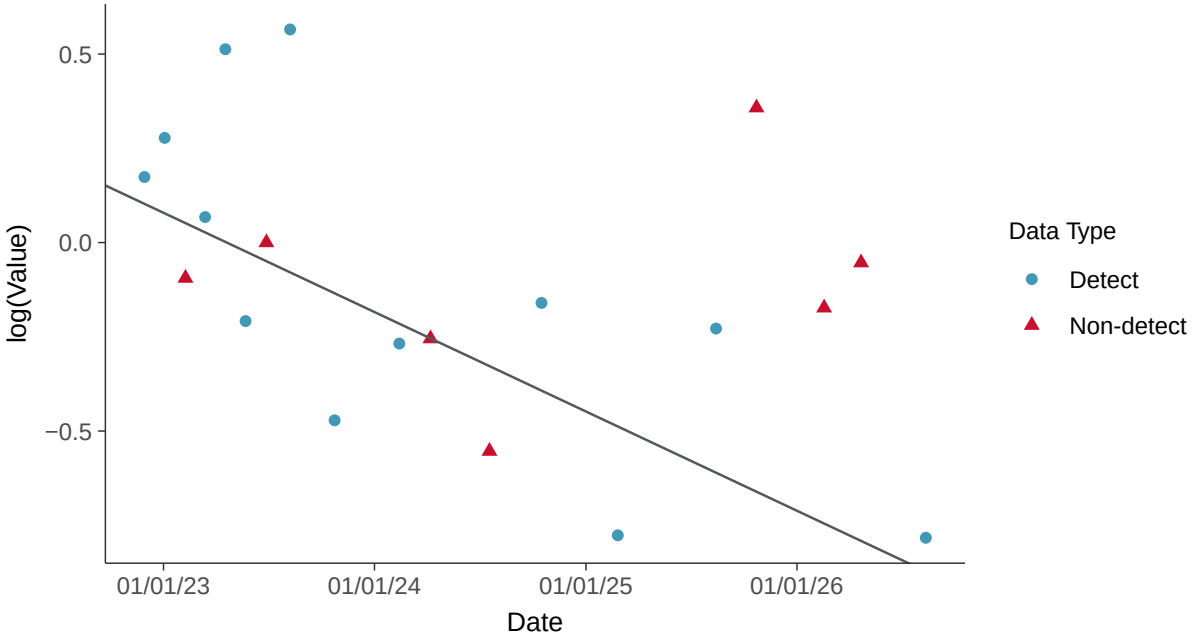
Gamma Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-11 (pCi/L)



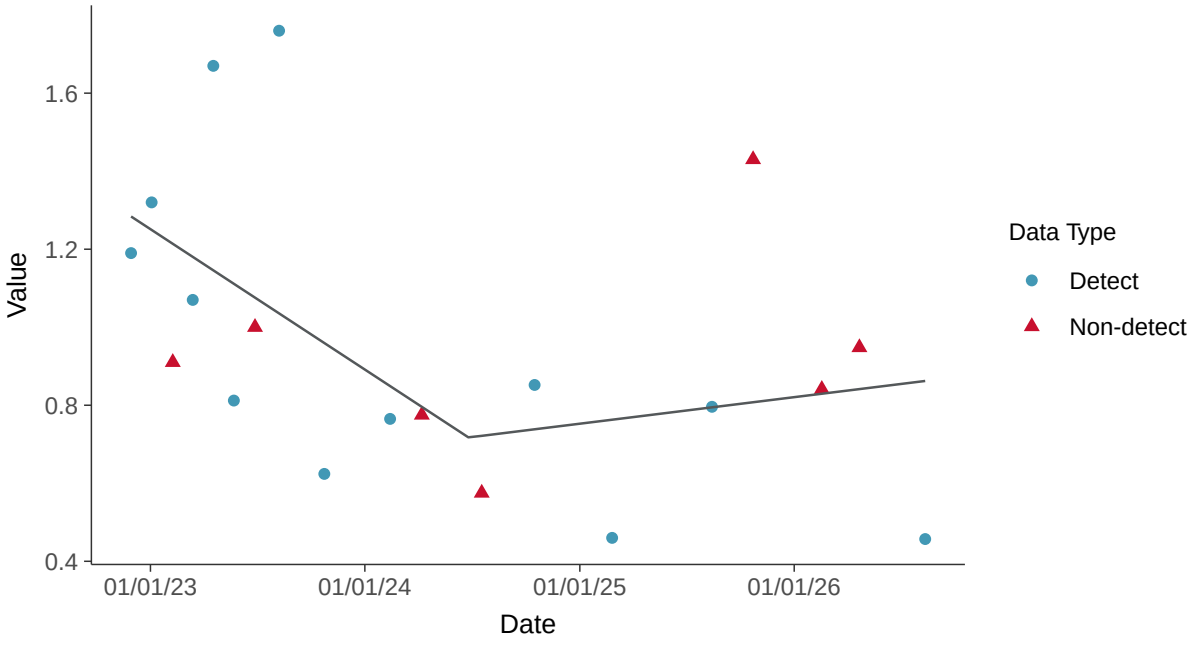
Trend Regression: Lognormal MLE

Radium 226 and 228, MW-11 (pCi/L)



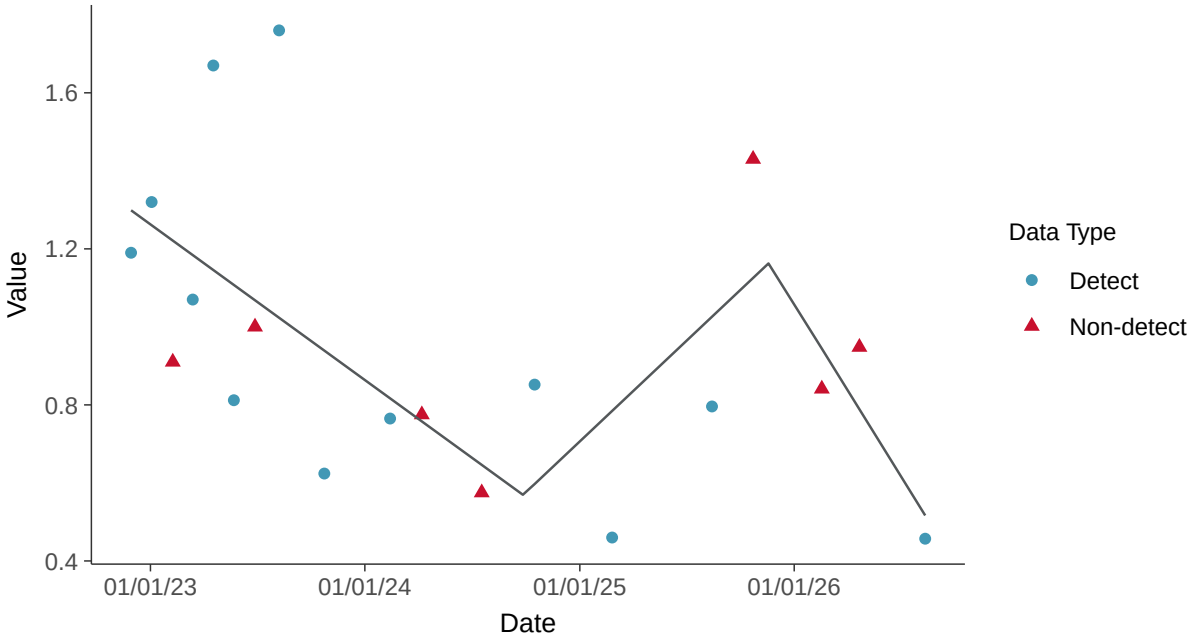
Trend Regression: Piecewise Linear-Linear

Radium 226 and 228, MW-11 (pCi/L)



Trend Regression: Piecewise Linear-Linear-Linear

Radium 226 and 228, MW-11 (pCi/L)

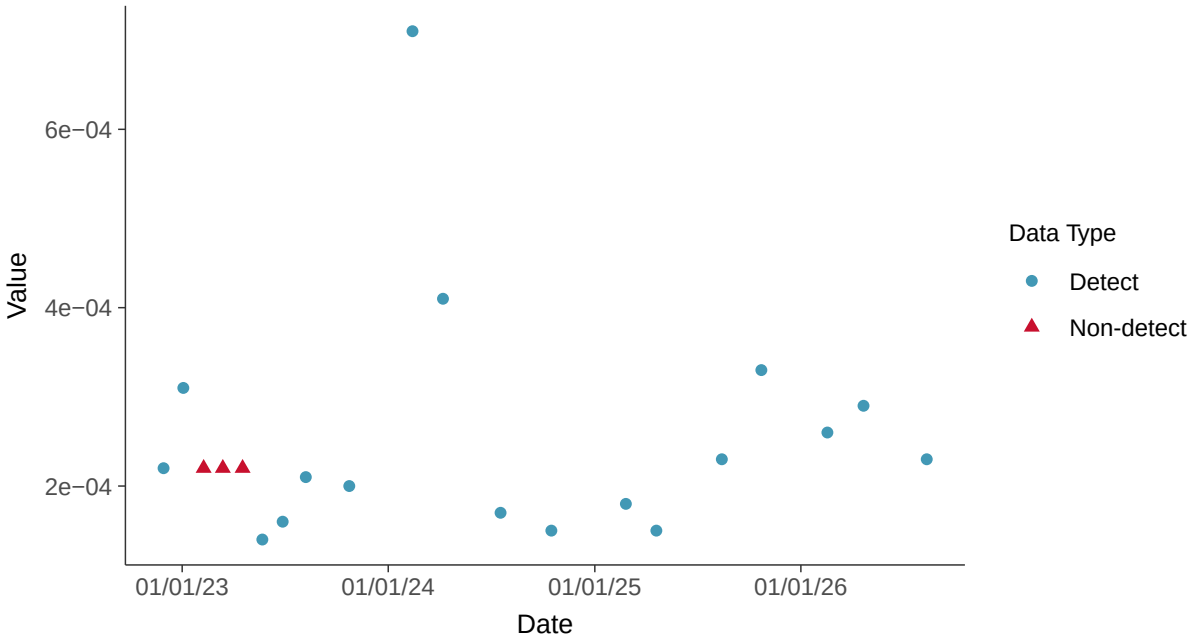


Appendix IV: Selenium, MW-11

ID: 21_2_4_122

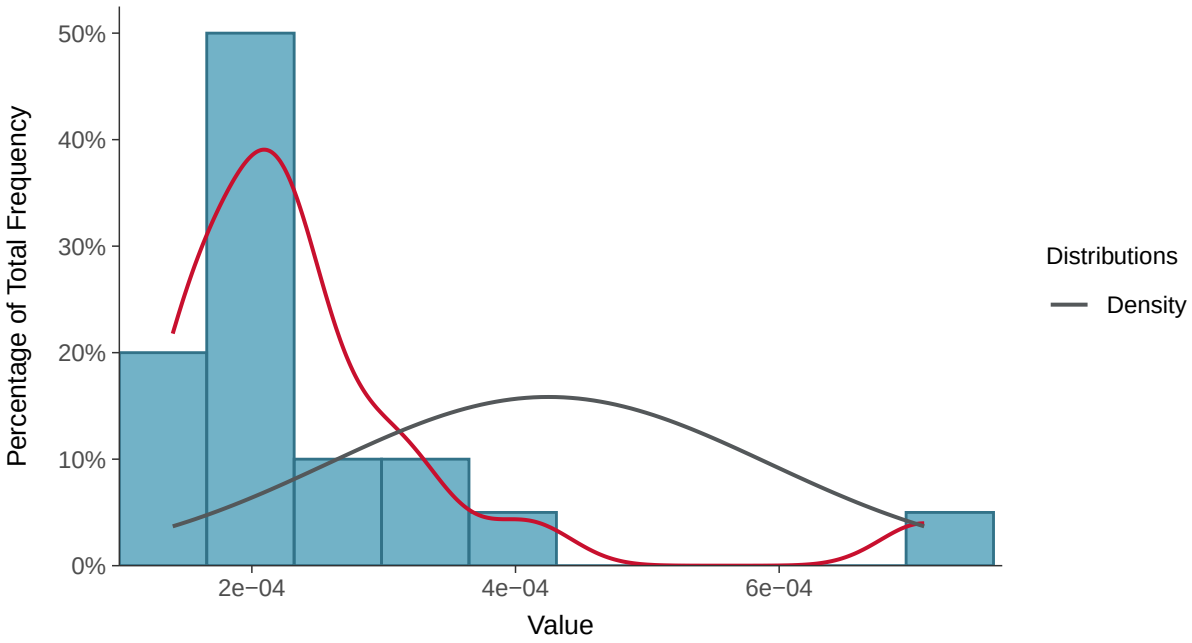
Scatter Plot

Selenium, MW-11 (mg/L)



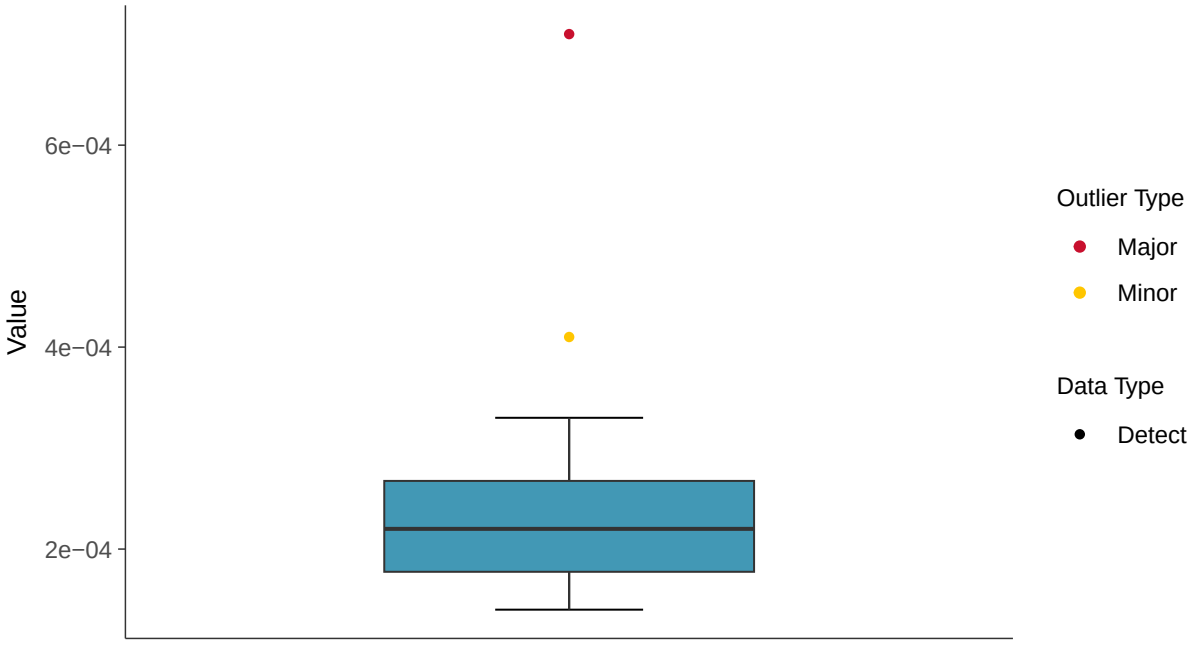
Histogram

Selenium, MW-11 (mg/L)



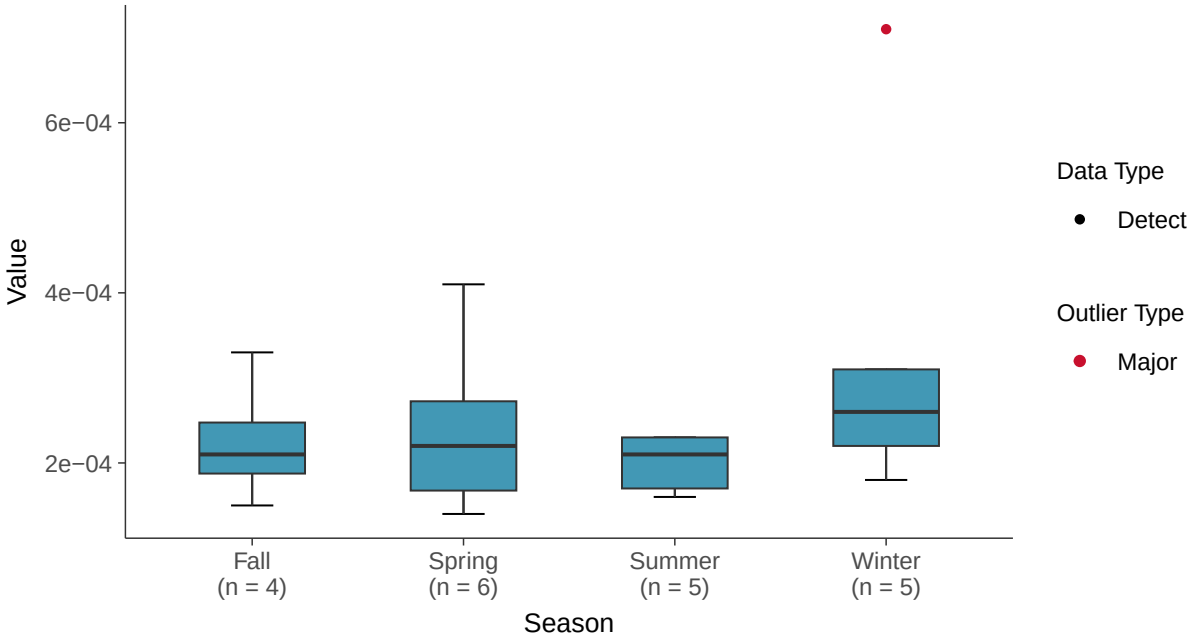
Boxplot

Selenium, MW-11 (mg/L)



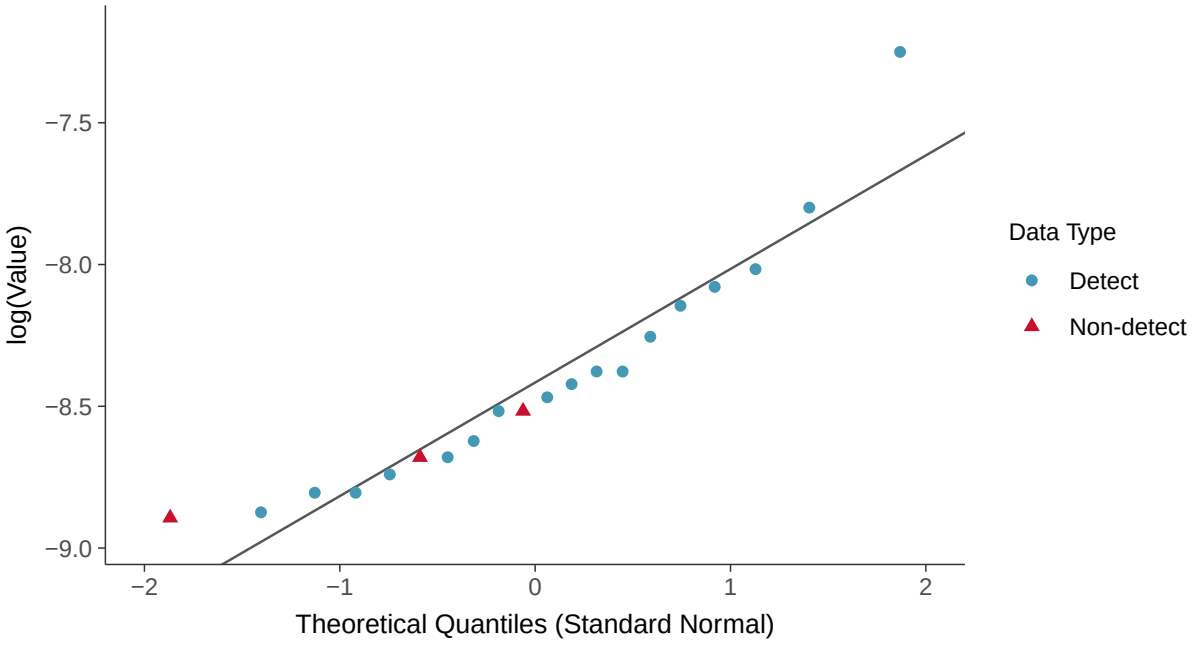
Boxplot by Season

Selenium, MW-11 (mg/L)



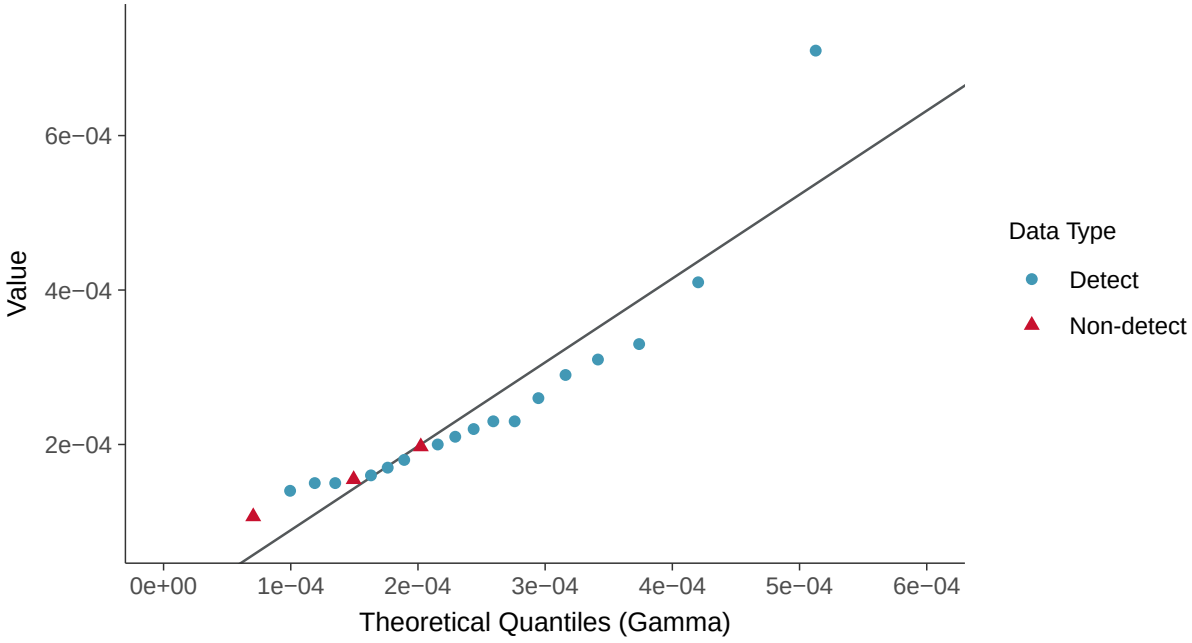
Lognormal Q-Q plot using ROS Imputed Estimates

Selenium, MW-11 (mg/L)



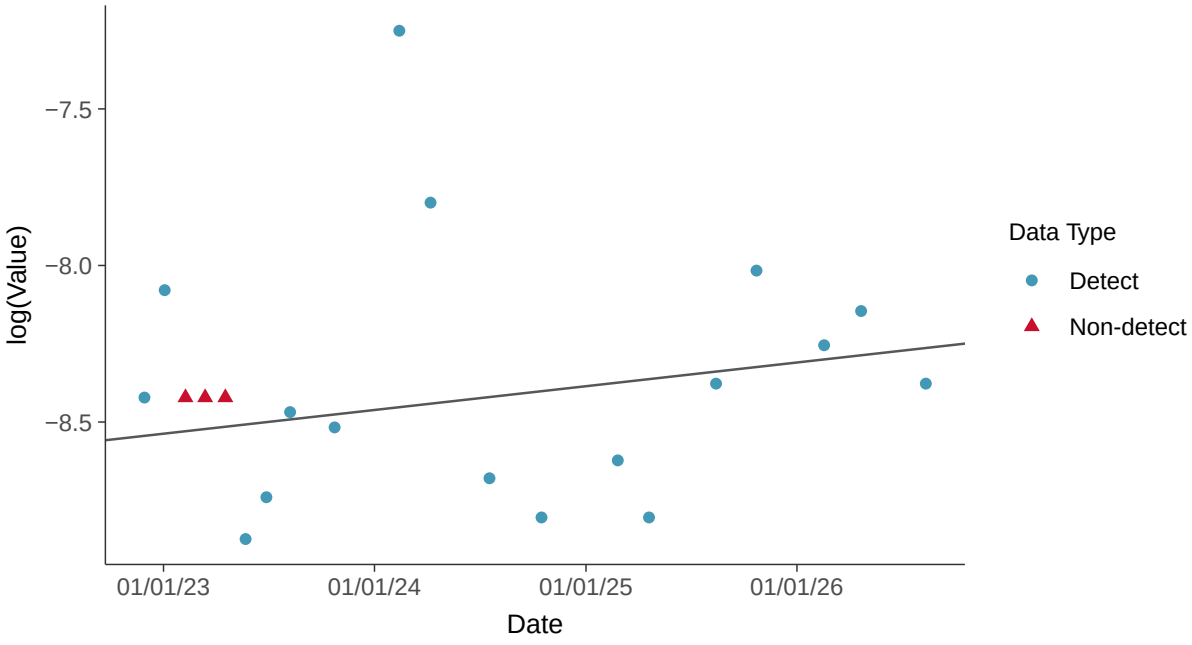
Gamma Q-Q plot using ROS Imputed Estimates

Selenium, MW-11 (mg/L)



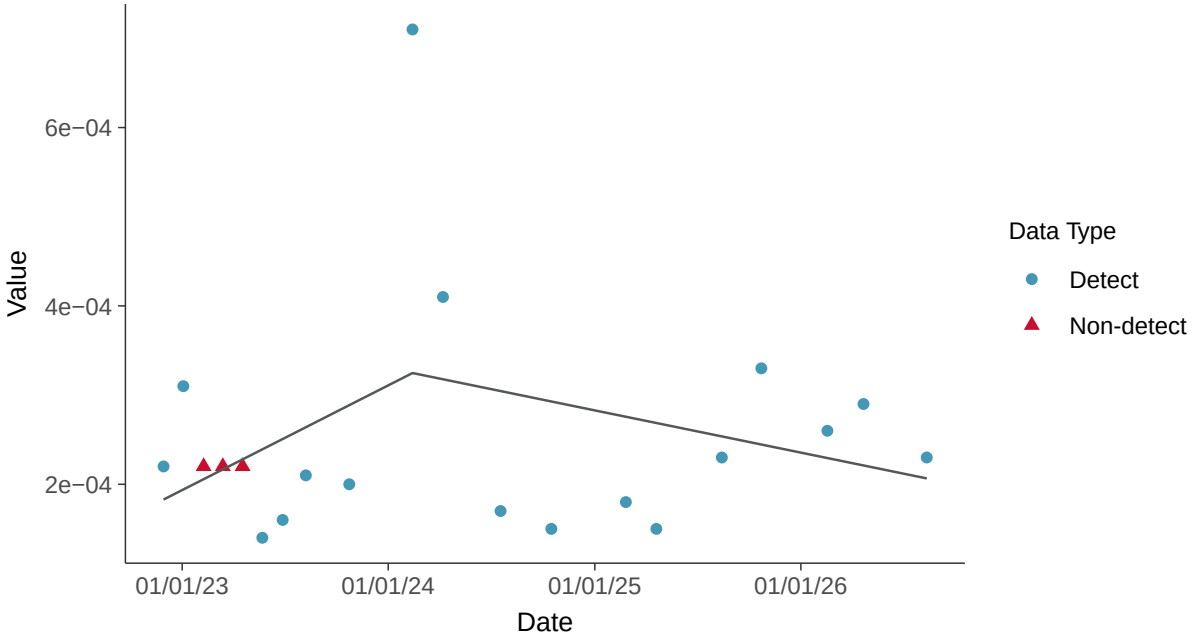
Trend Regression: Lognormal MLE

Selenium, MW-11 (mg/L)



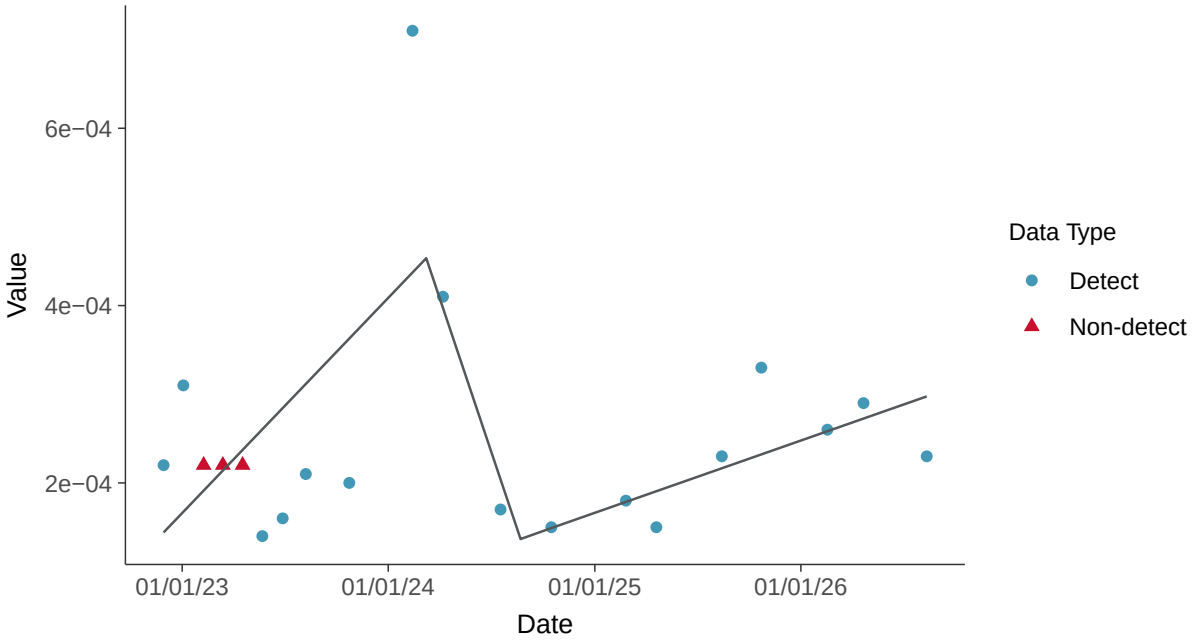
Trend Regression: Piecewise Linear-Linear

Selenium, MW-11 (mg/L)



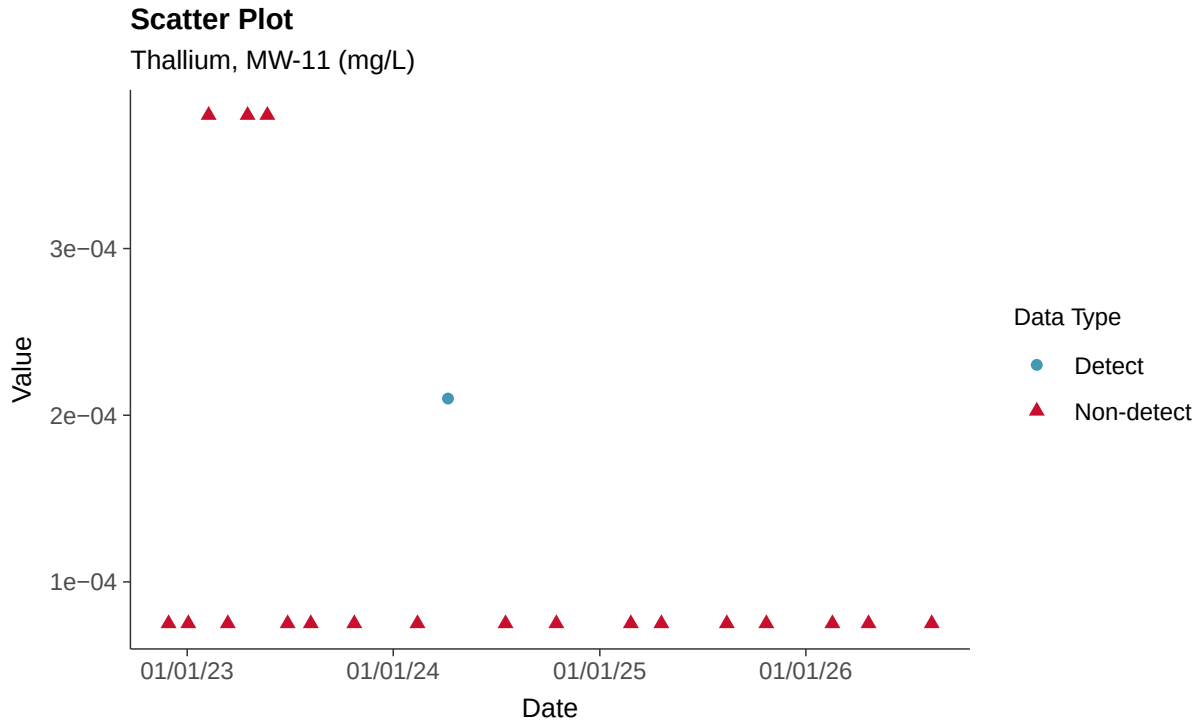
Trend Regression: Piecewise Linear-Linear-Linear

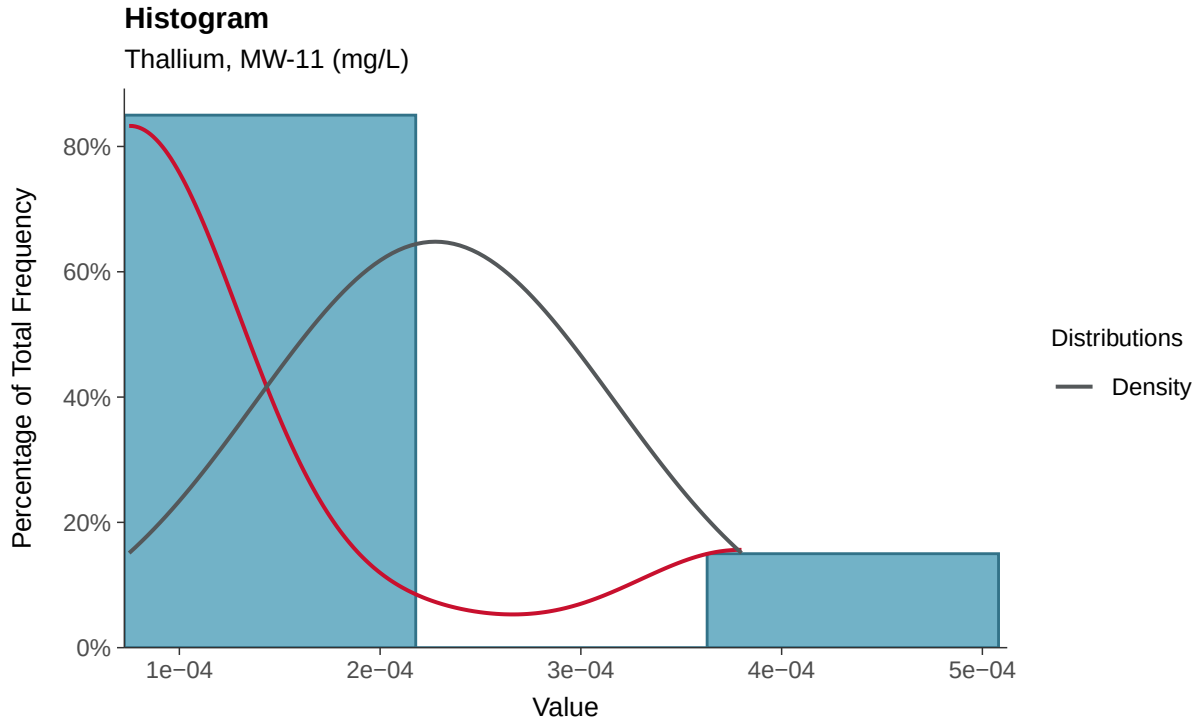
Selenium, MW-11 (mg/L)



Appendix IV: Thallium, MW-11

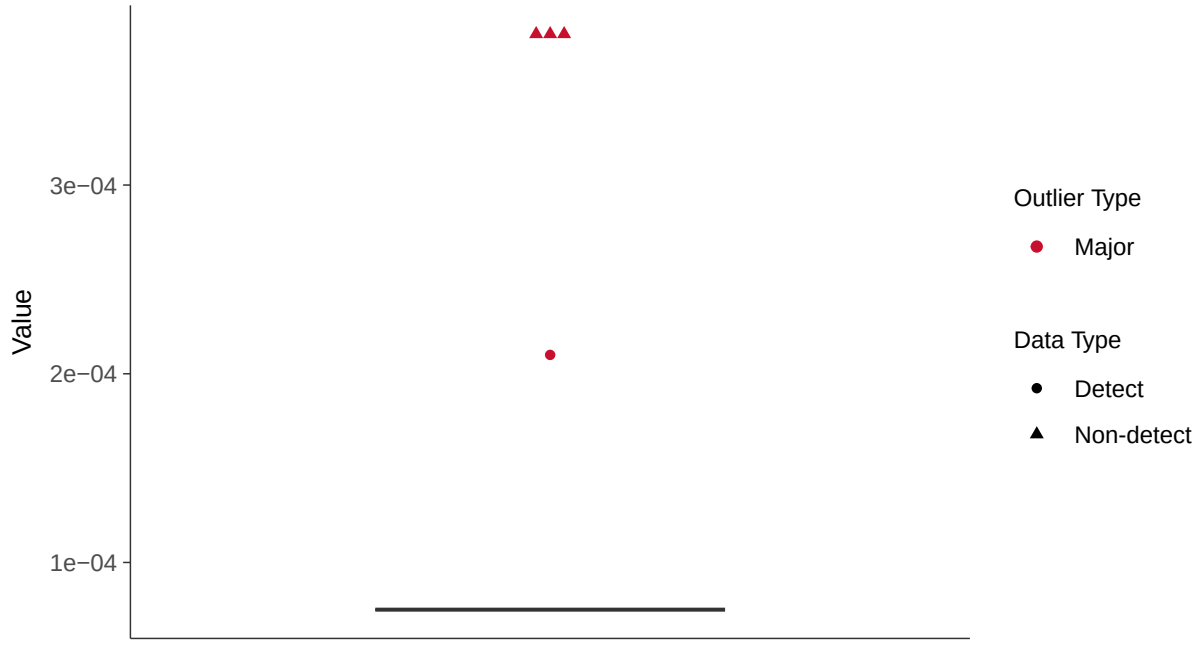
ID: 21_2_4_125





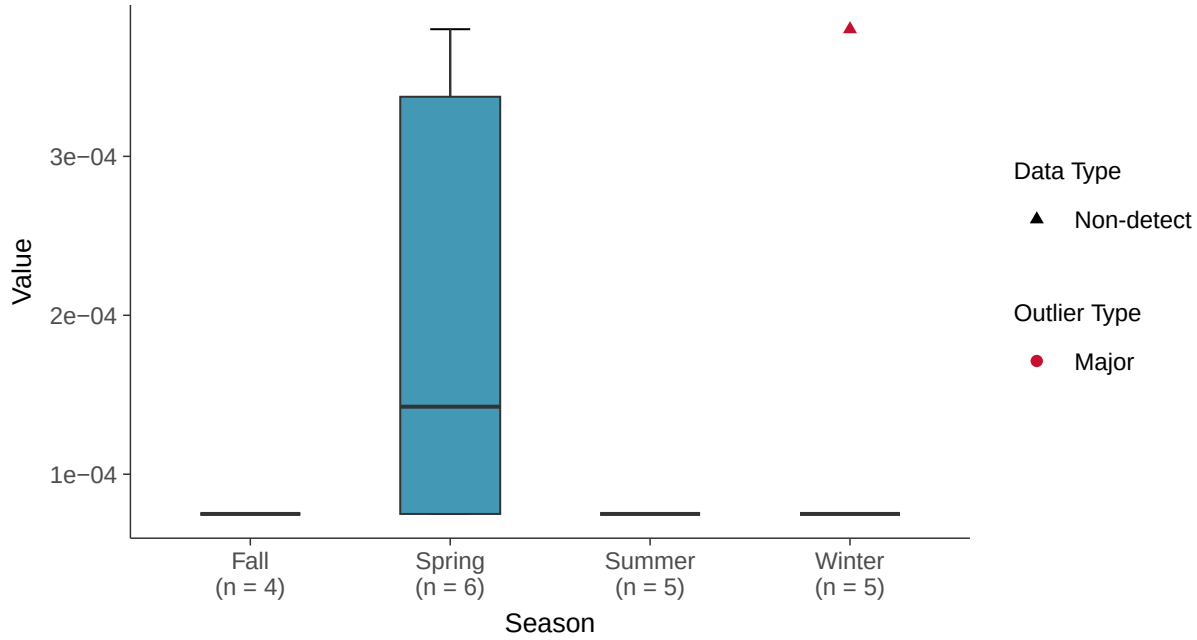
Boxplot

Thallium, MW-11 (mg/L)



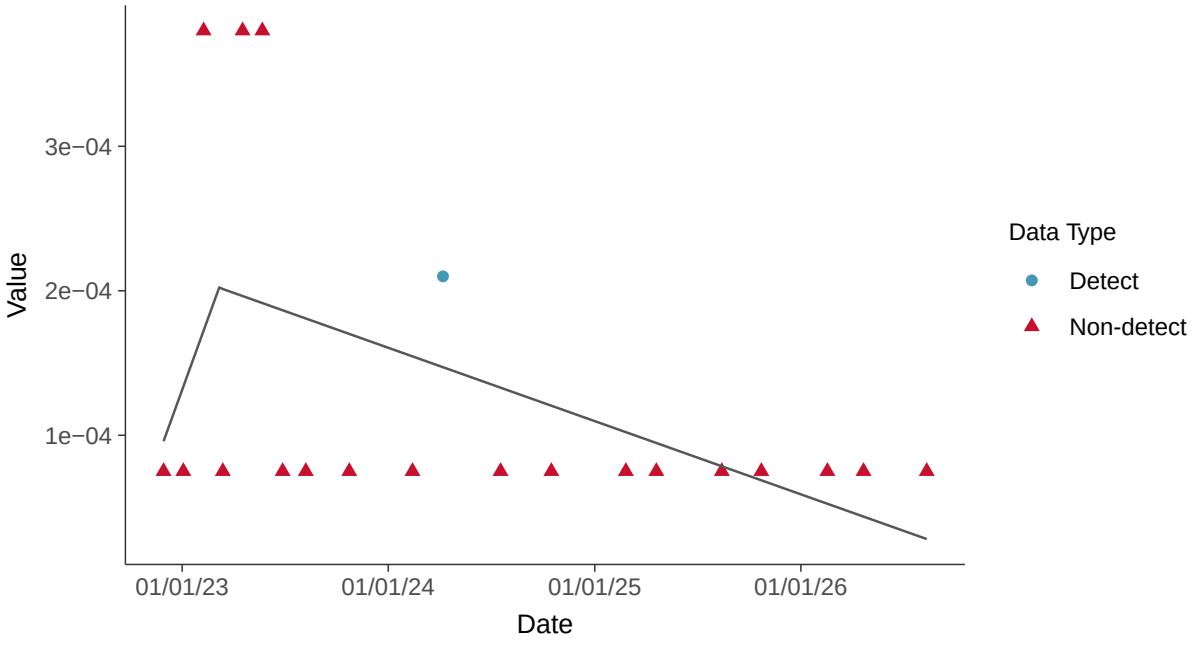
Boxplot by Season

Thallium, MW-11 (mg/L)



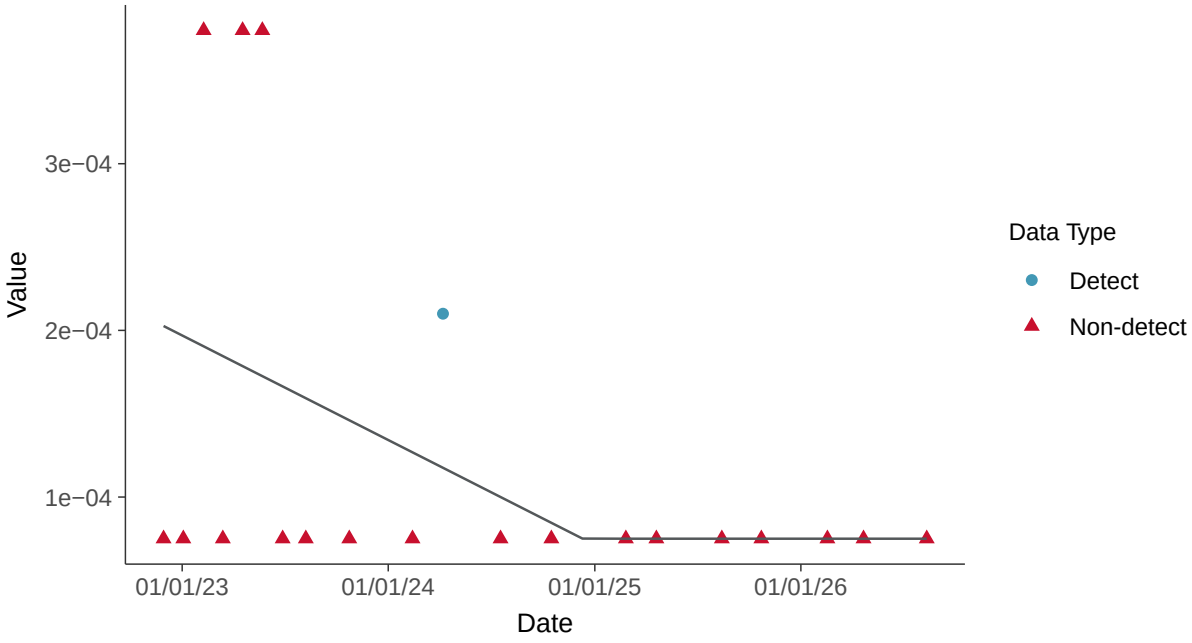
Trend Regression: Piecewise Linear-Linear

Thallium, MW-11 (mg/L)



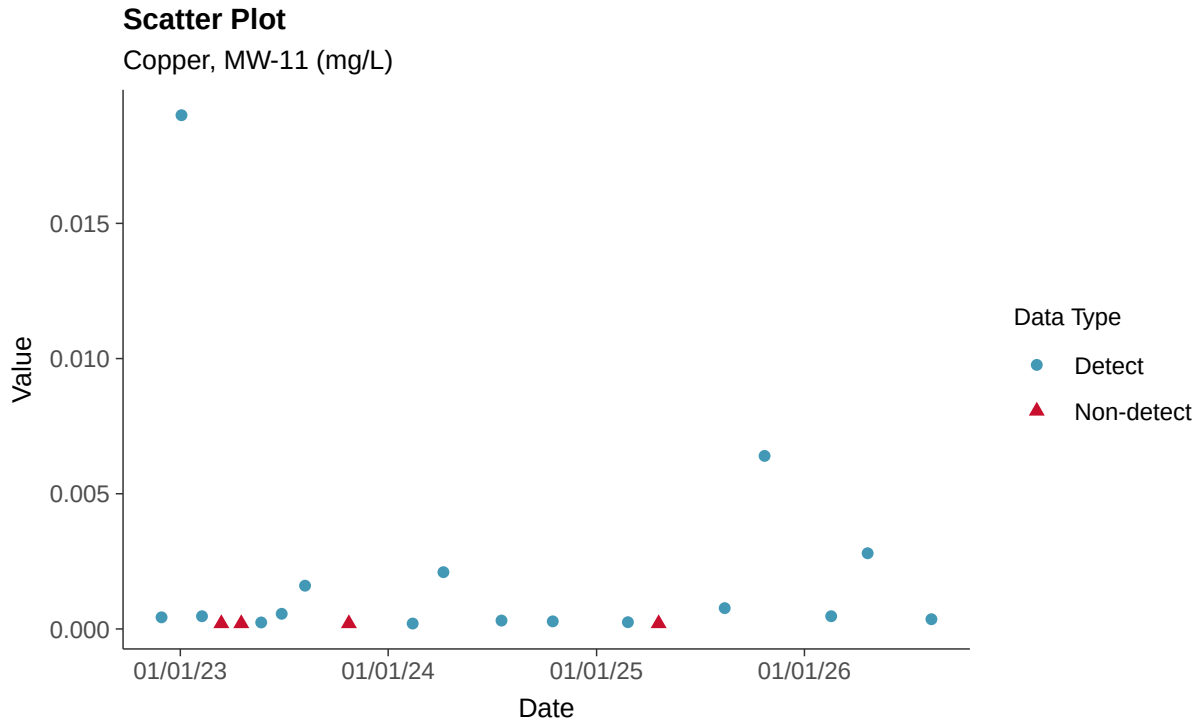
Trend Regression: Piecewise Linear-Linear-Linear

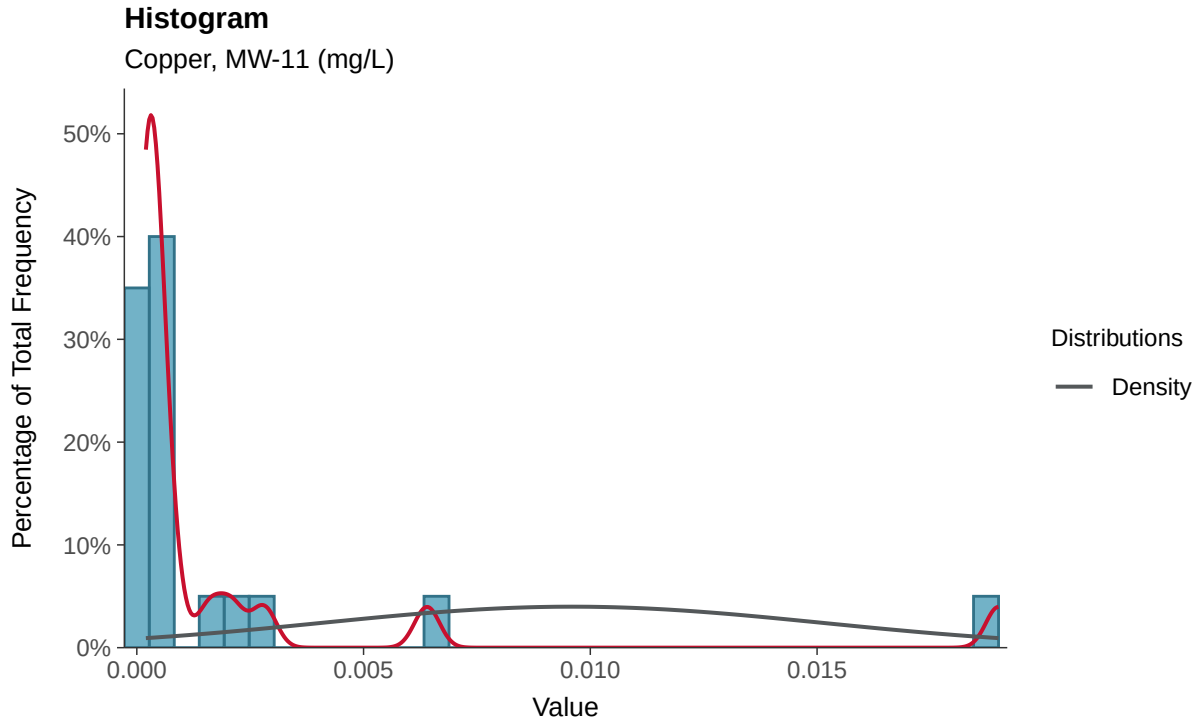
Thallium, MW-11 (mg/L)



Part 115: Copper, MW-11

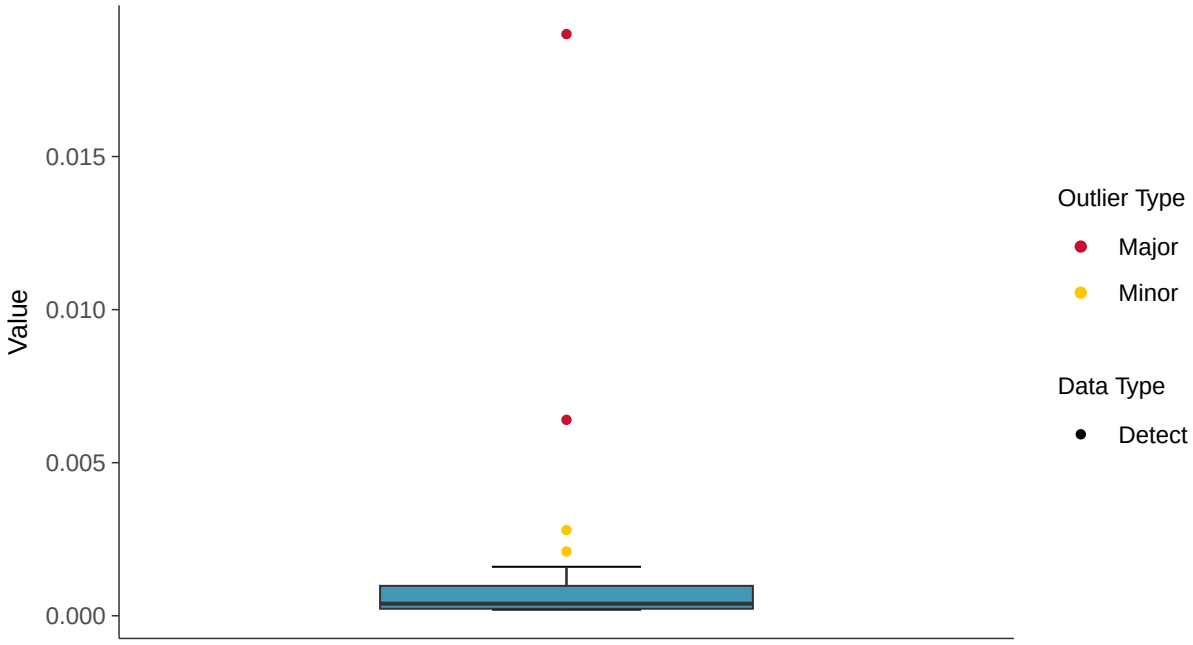
ID: 21_2_5_111





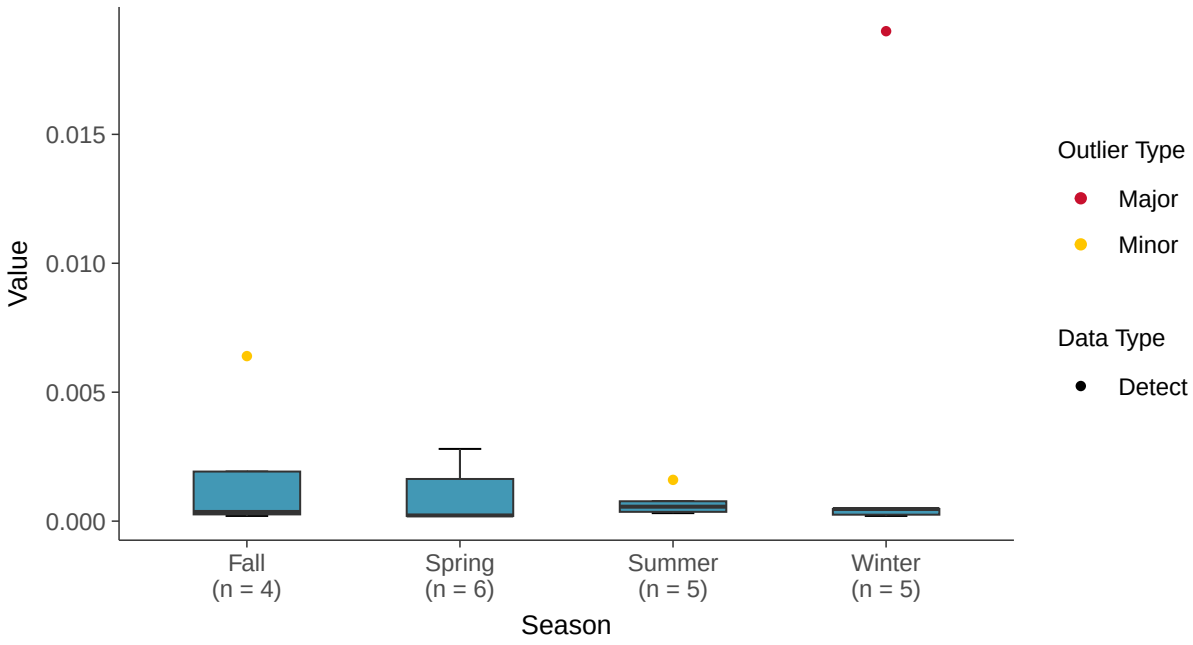
Boxplot

Copper, MW-11 (mg/L)



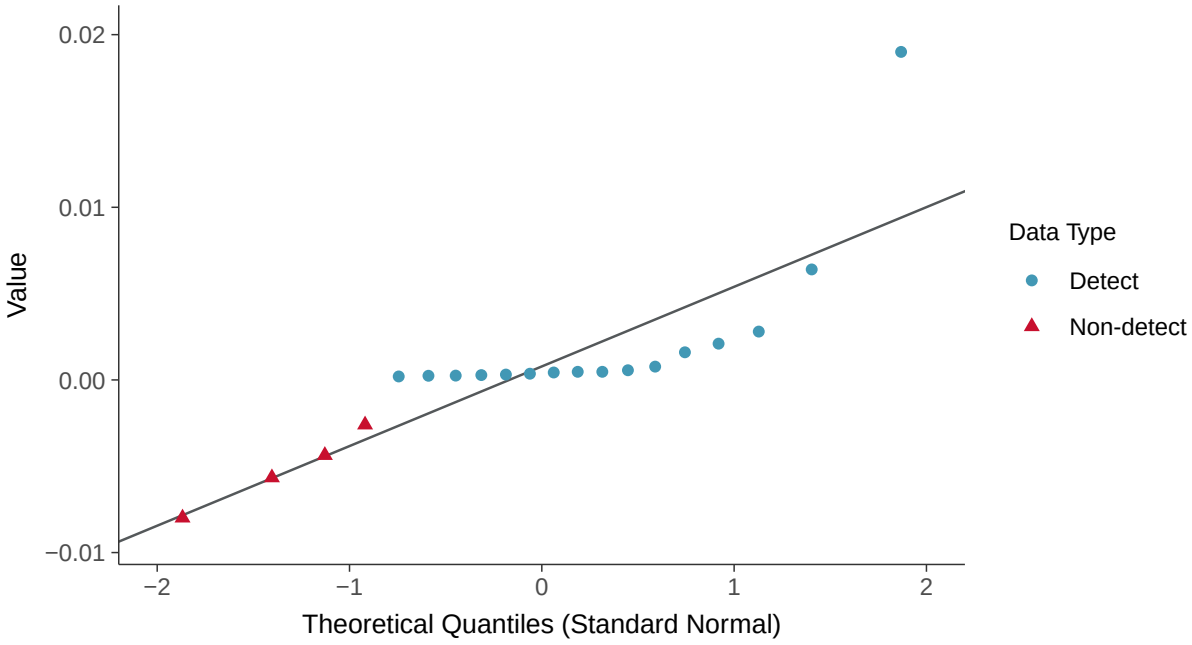
Boxplot by Season

Copper, MW-11 (mg/L)



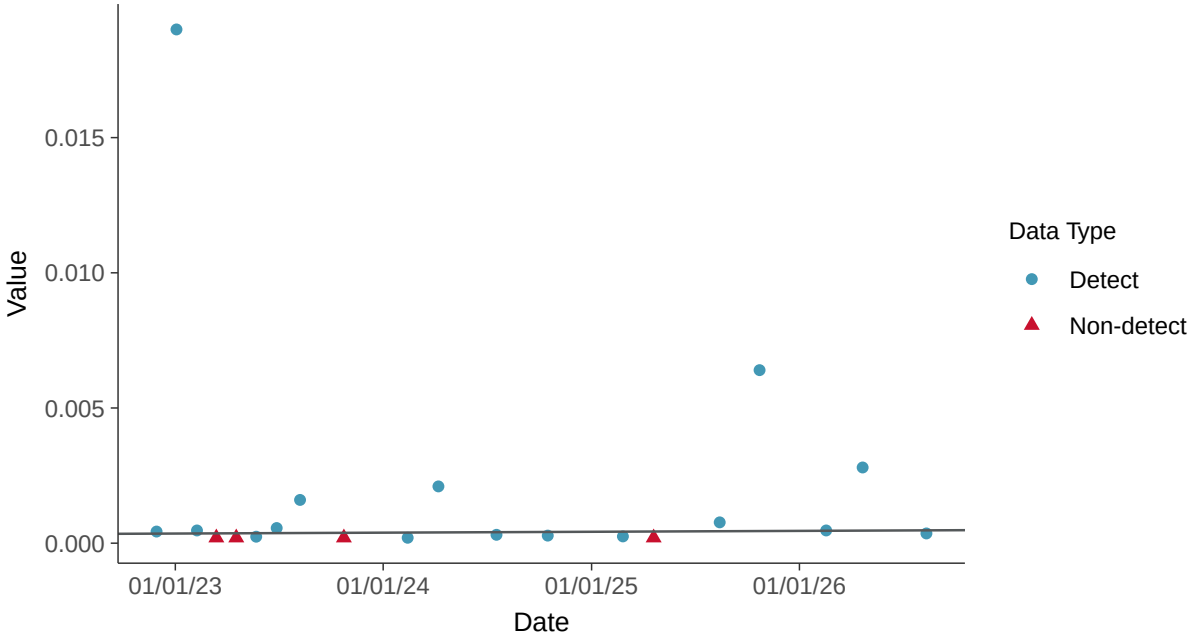
Normal Q-Q plot using ROS Imputed Estimates

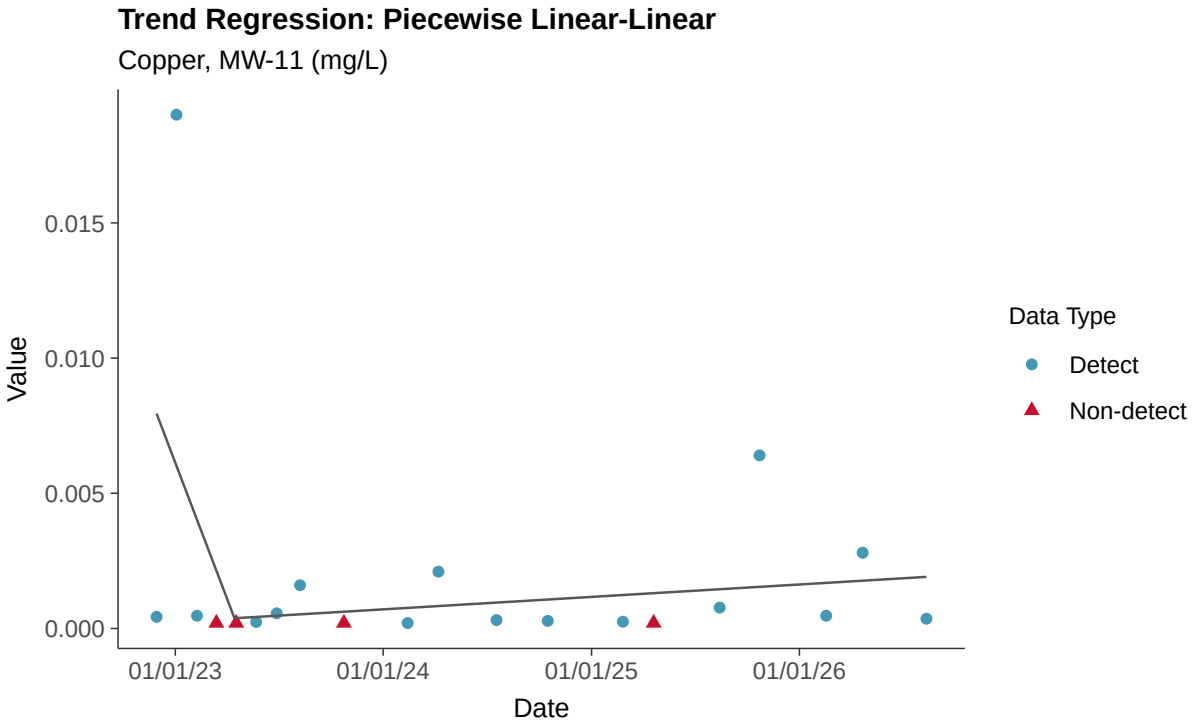
Copper, MW-11 (mg/L)



Trend Regression: Mann-Kendall/Theil-Sen Estimate

Copper, MW-11 (mg/L)



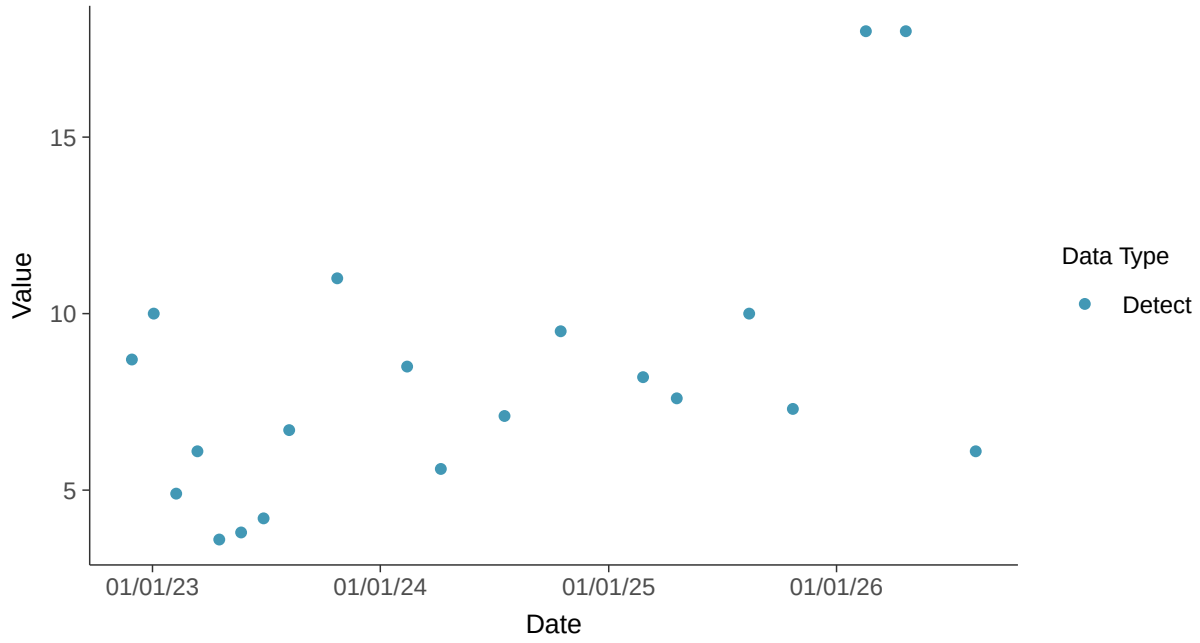

Trend Regression: Piecewise Linear-Linear
Copper, MW-11 (mg/L)
Value
0.015
0.010
0.005
0.000
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect
Non-detect

Part 115: Iron, MW-11

ID: 21_2_5_114

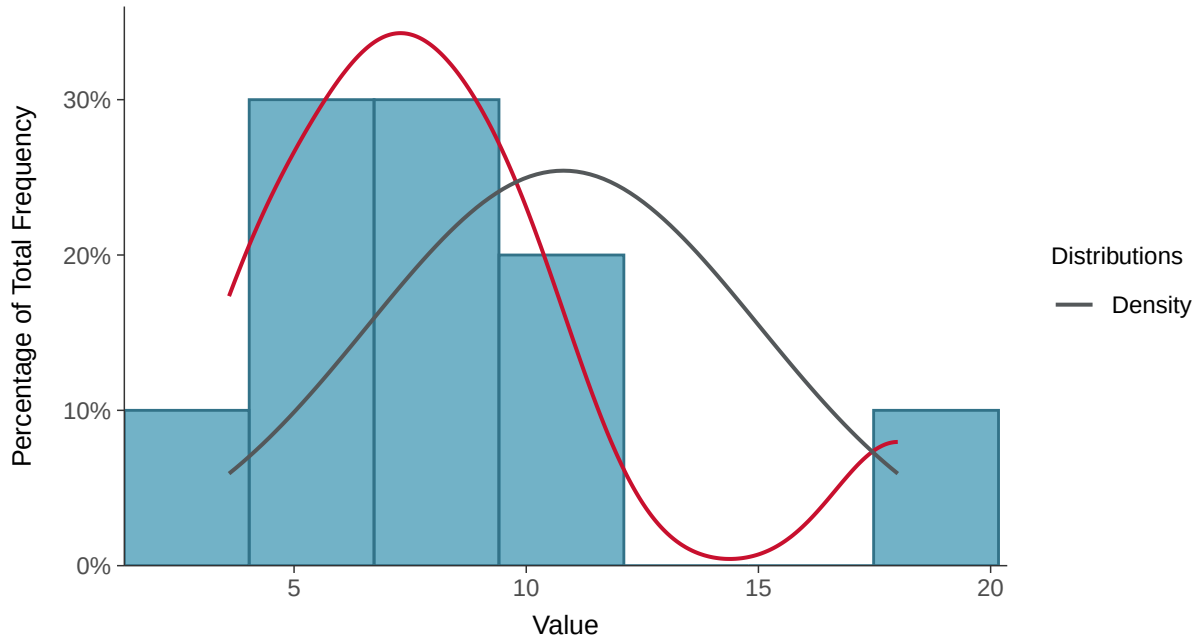
Scatter Plot

Iron, MW-11 (mg/L)



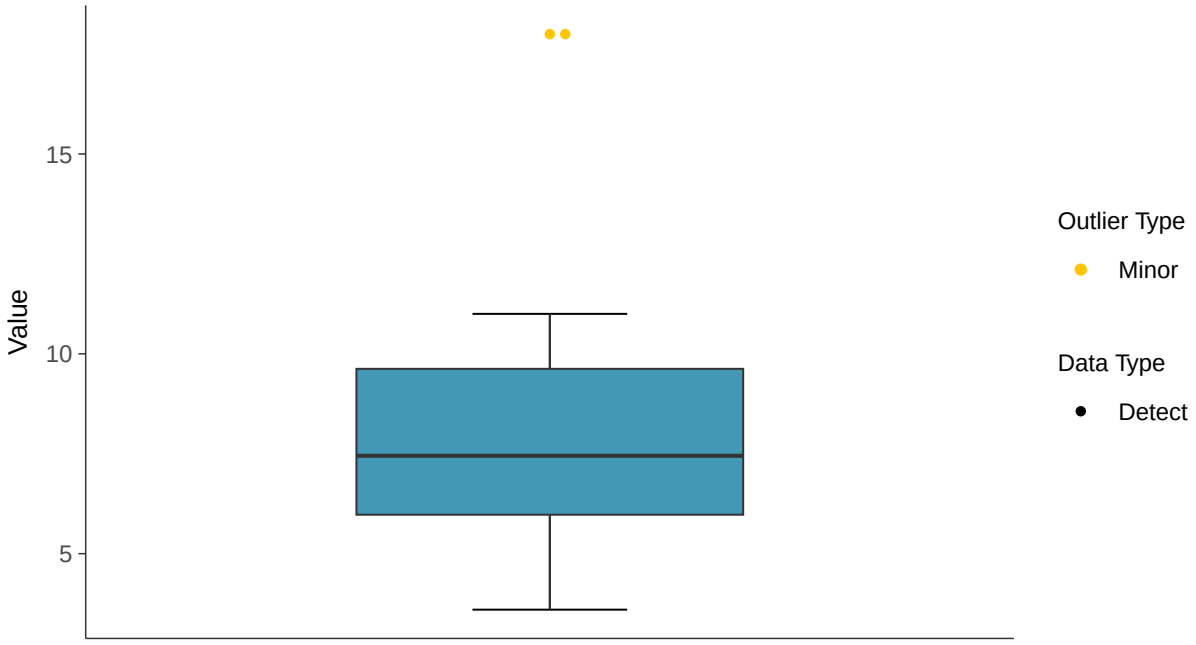
Histogram

Iron, MW-11 (mg/L)



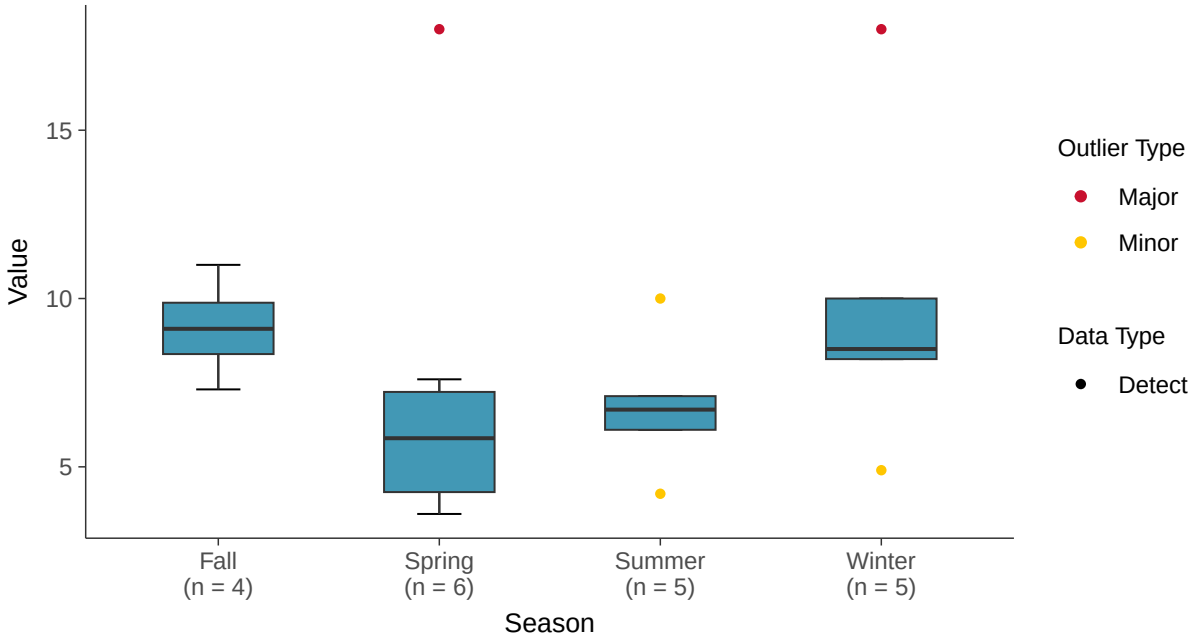
Boxplot

Iron, MW-11 (mg/L)



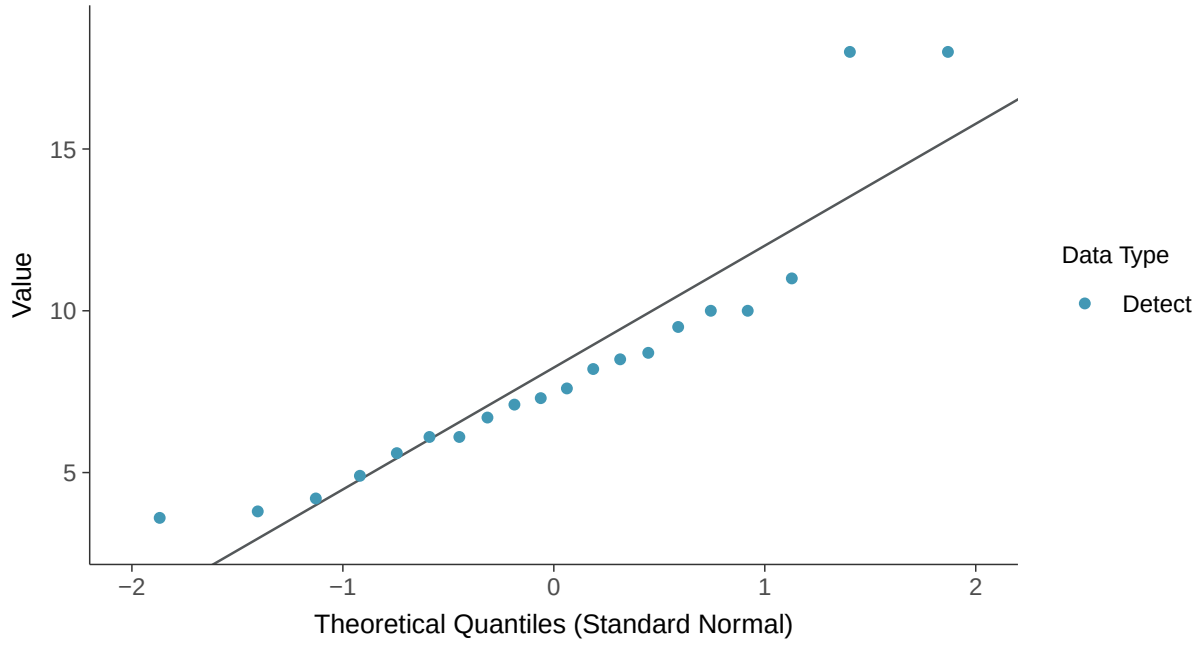
Boxplot by Season

Iron, MW-11 (mg/L)



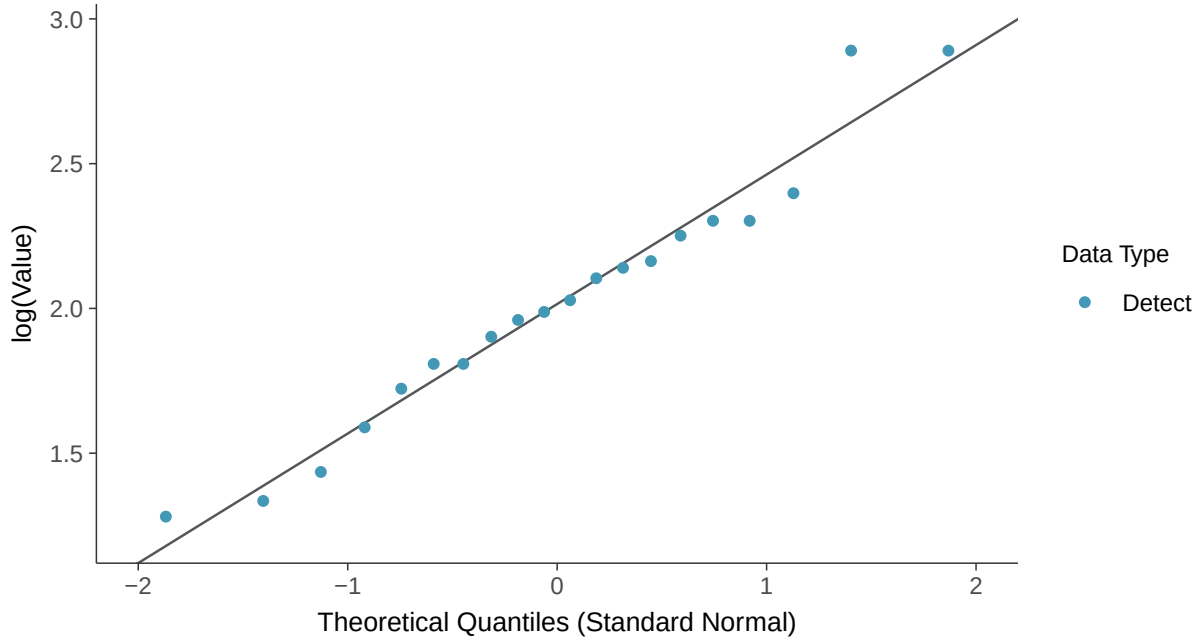
Normal Q-Q plot

Iron, MW-11 (mg/L)



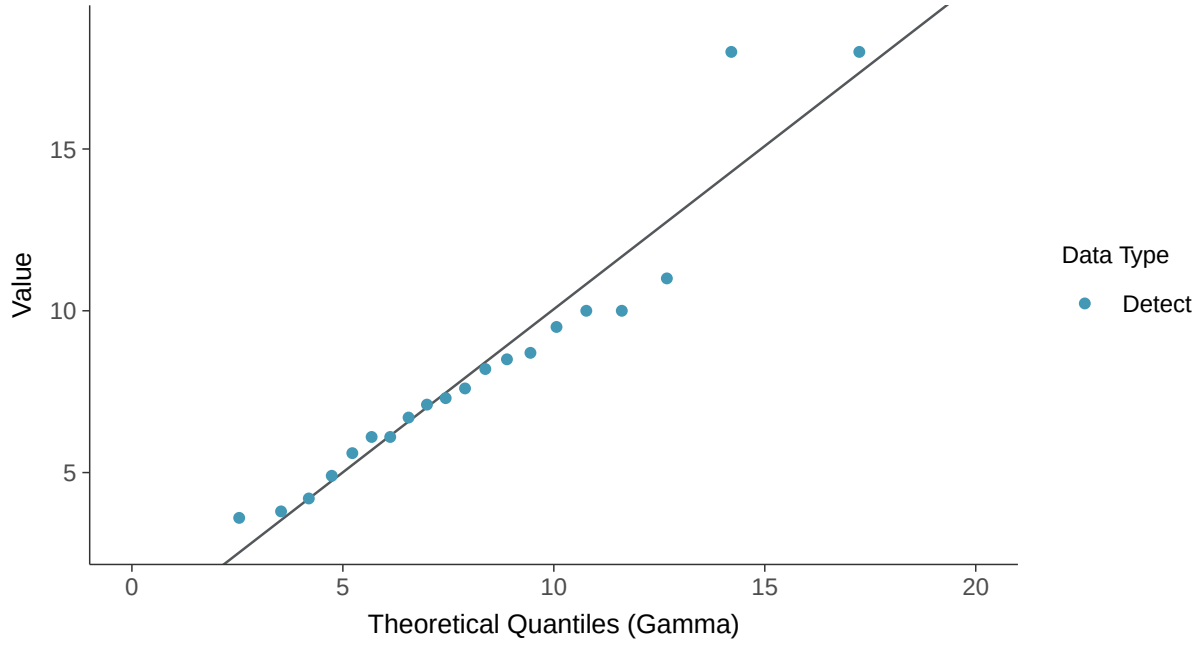
Lognormal Q-Q plot

Iron, MW-11 (mg/L)



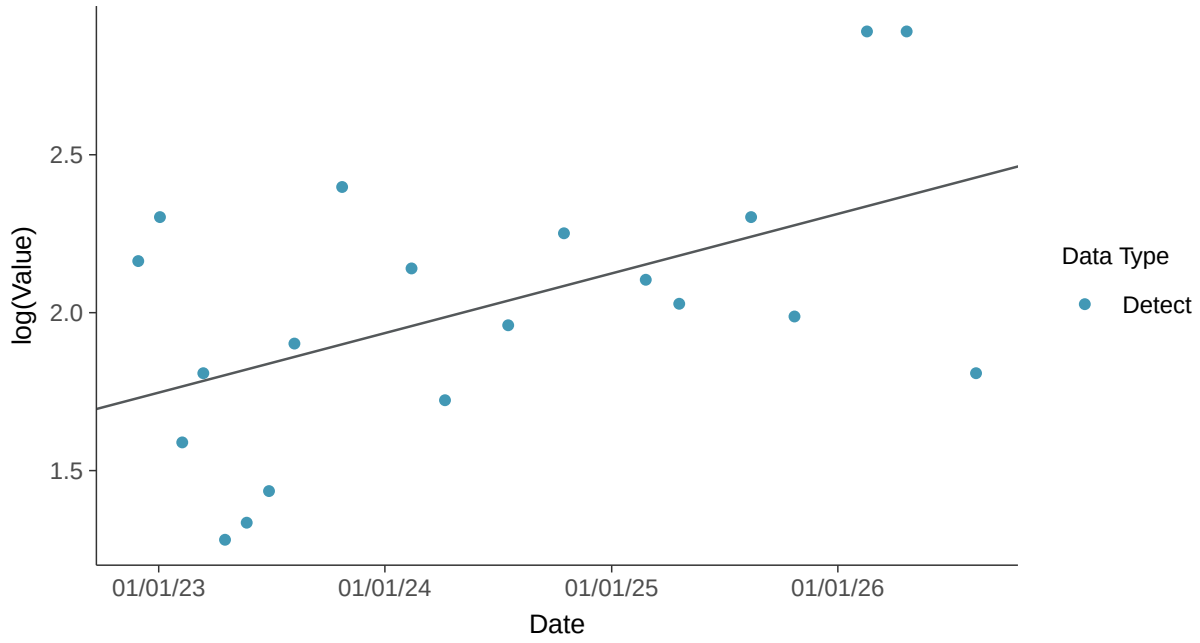
Gamma Q-Q plot

Iron, MW-11 (mg/L)



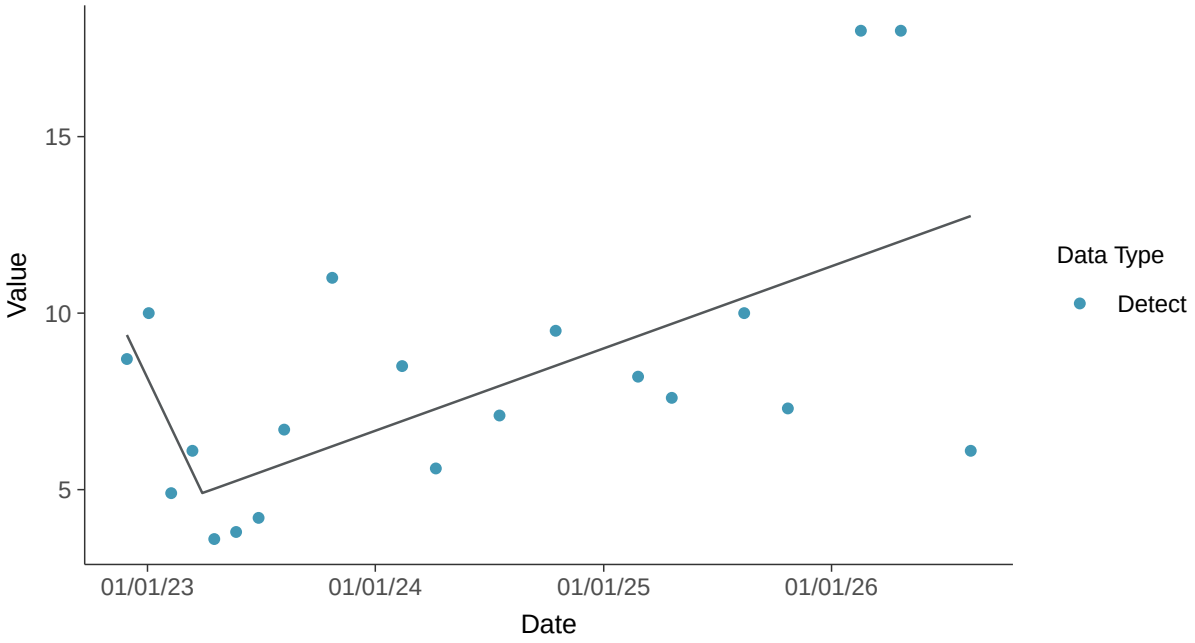
Trend Regression: Lognormal MLE

Iron, MW-11 (mg/L)



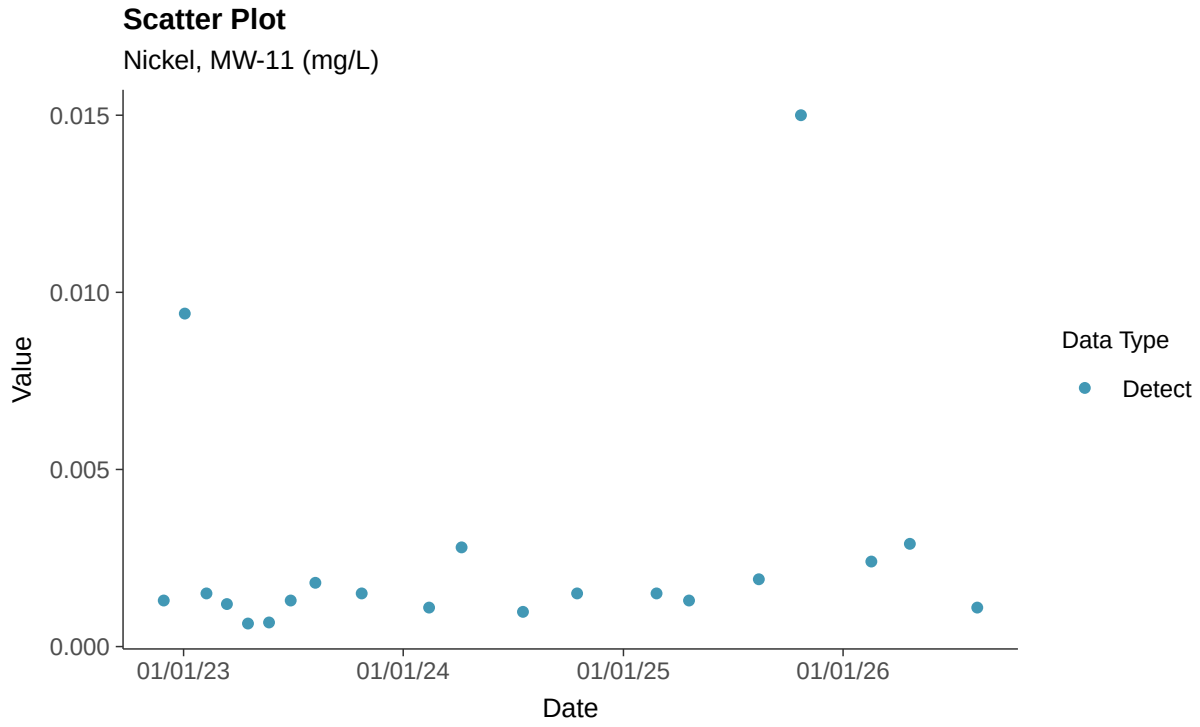
Trend Regression: Piecewise Linear-Linear

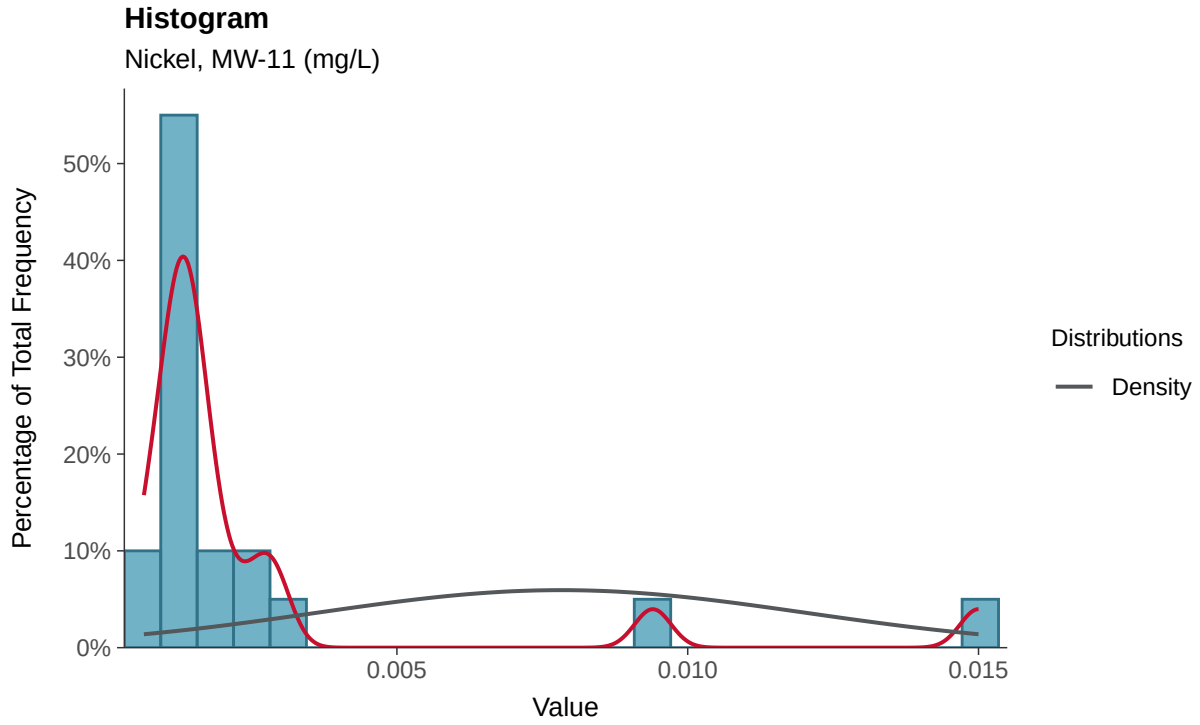
Iron, MW-11 (mg/L)



Part 115: Nickel, MW-11

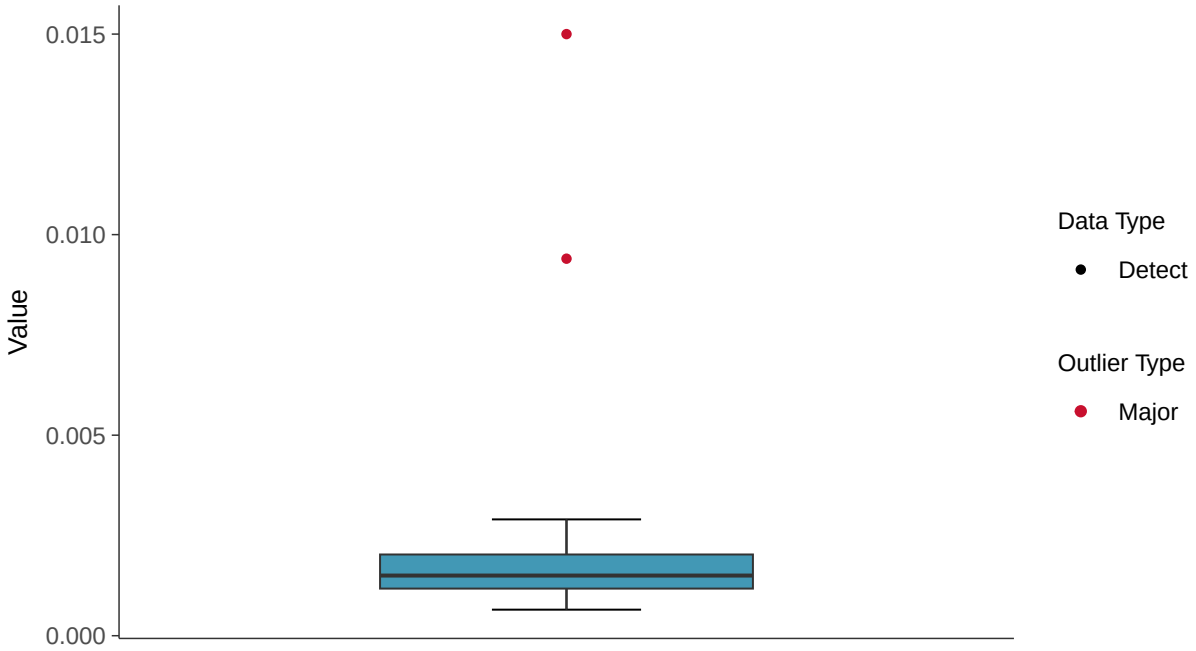
ID: 21_2_5_119





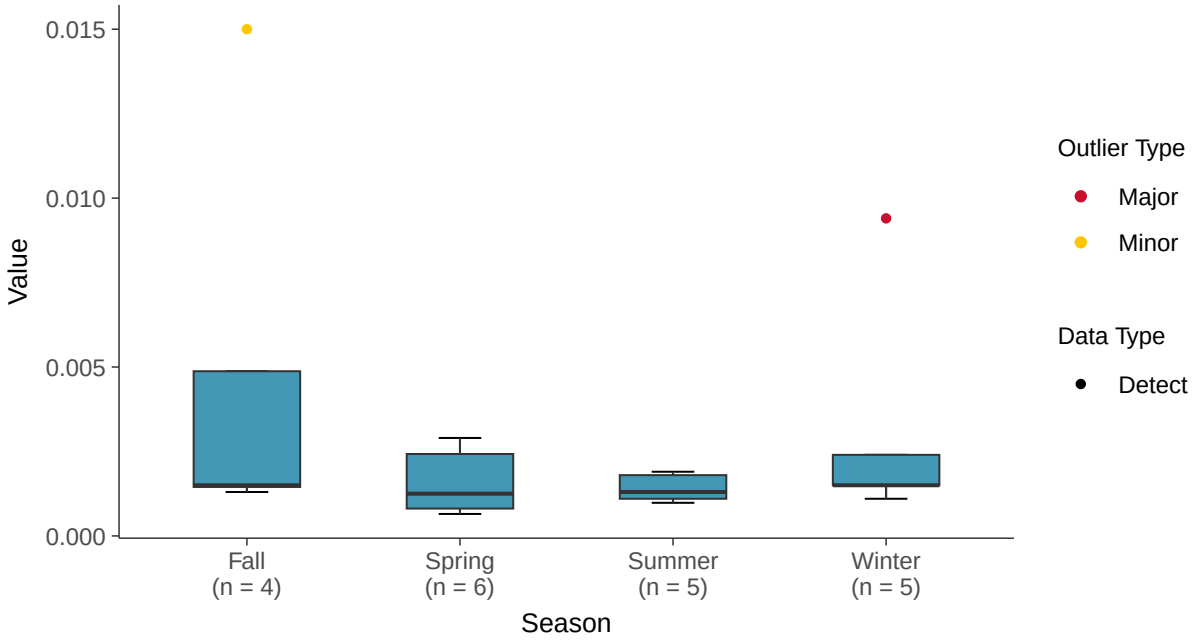
Boxplot

Nickel, MW-11 (mg/L)



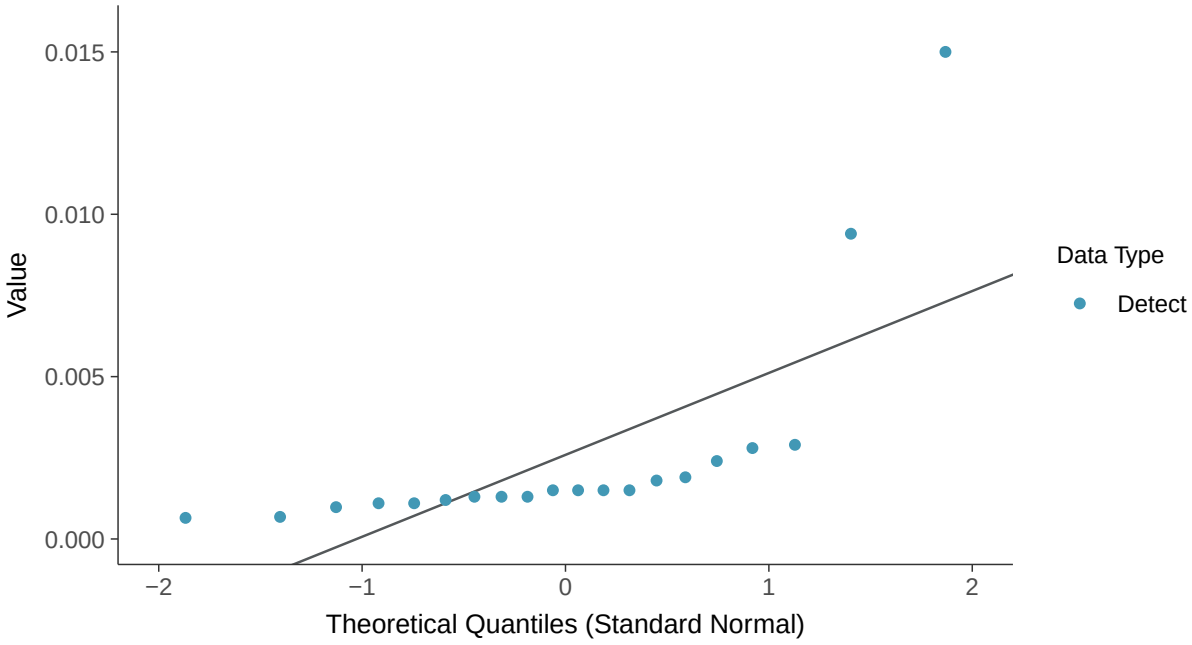
Boxplot by Season

Nickel, MW-11 (mg/L)



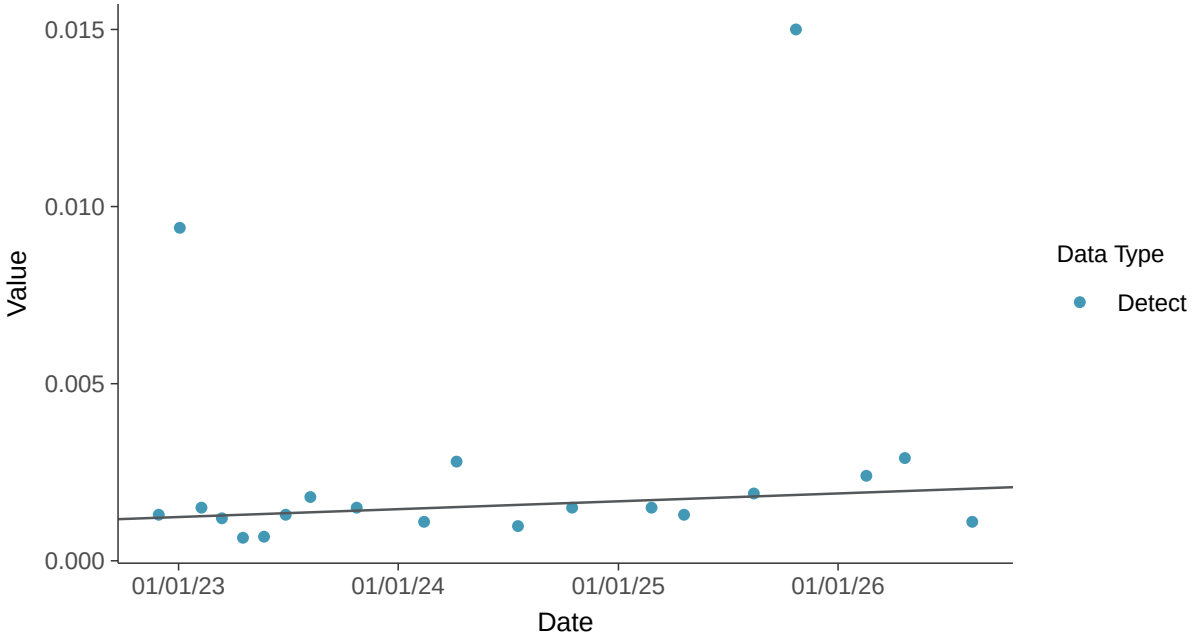
Normal Q-Q plot

Nickel, MW-11 (mg/L)



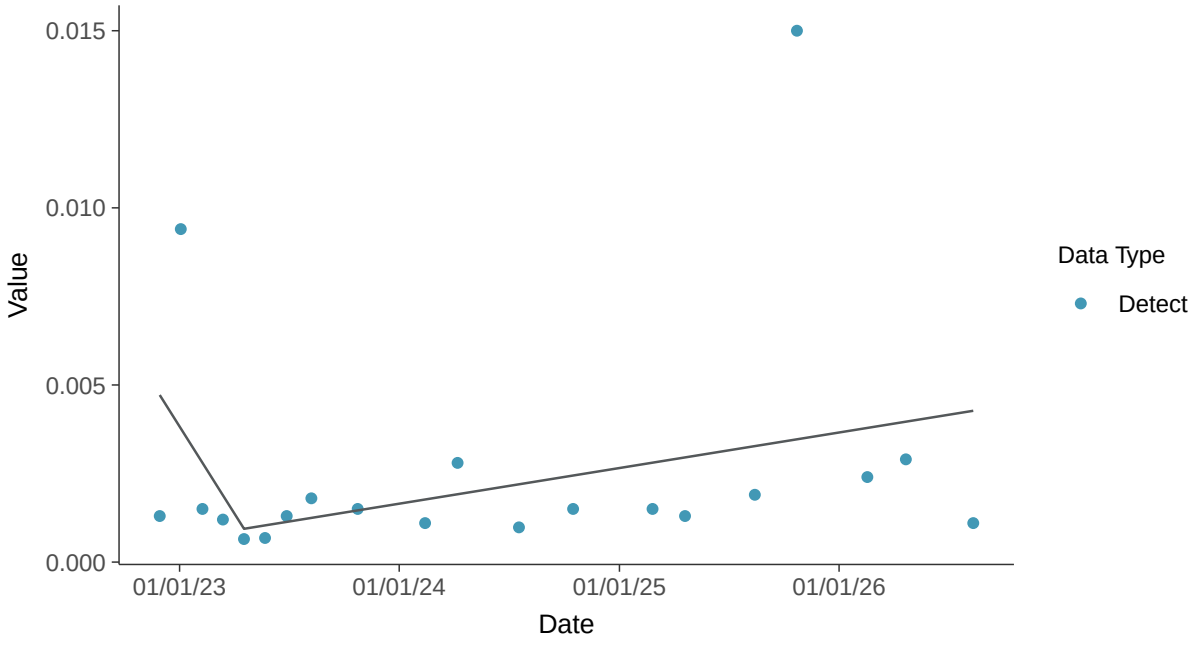
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Nickel, MW-11 (mg/L)



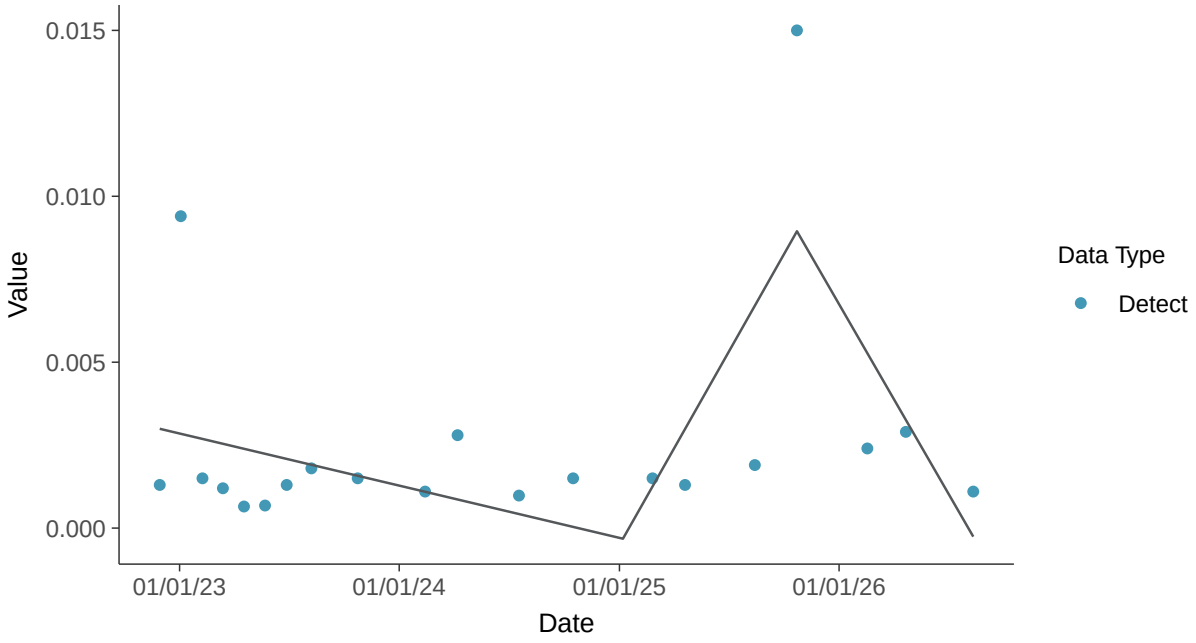
Trend Regression: Piecewise Linear-Linear

Nickel, MW-11 (mg/L)



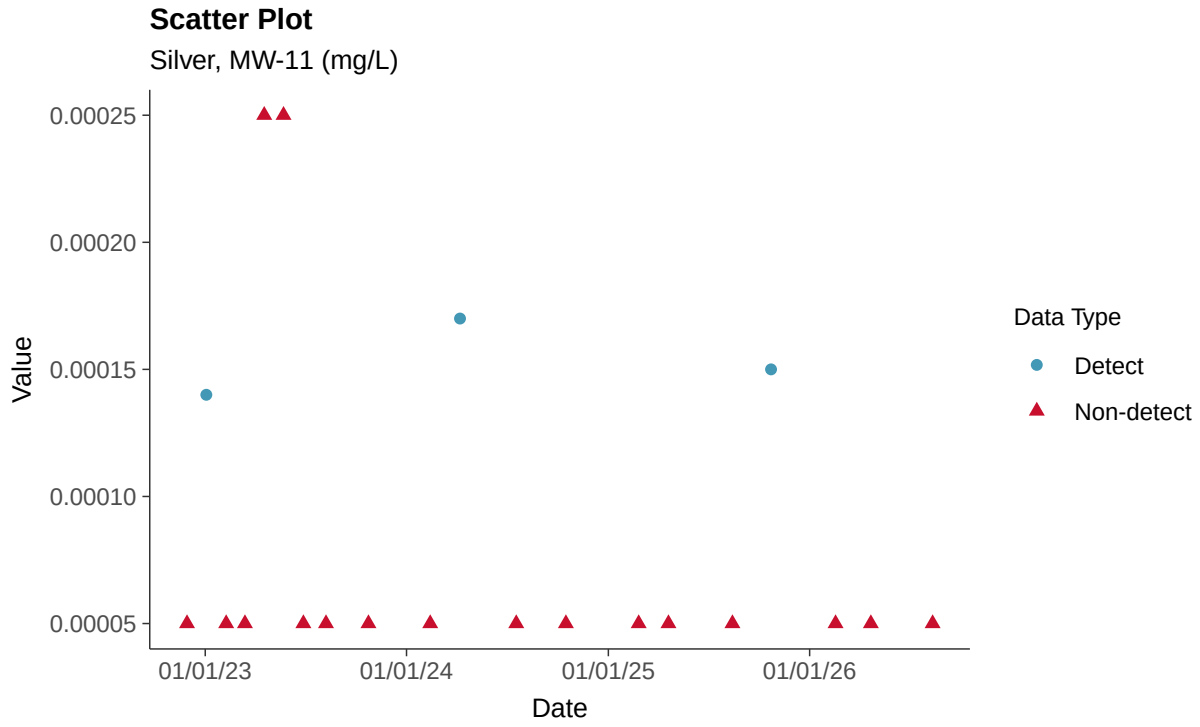
Trend Regression: Piecewise Linear-Linear-Linear

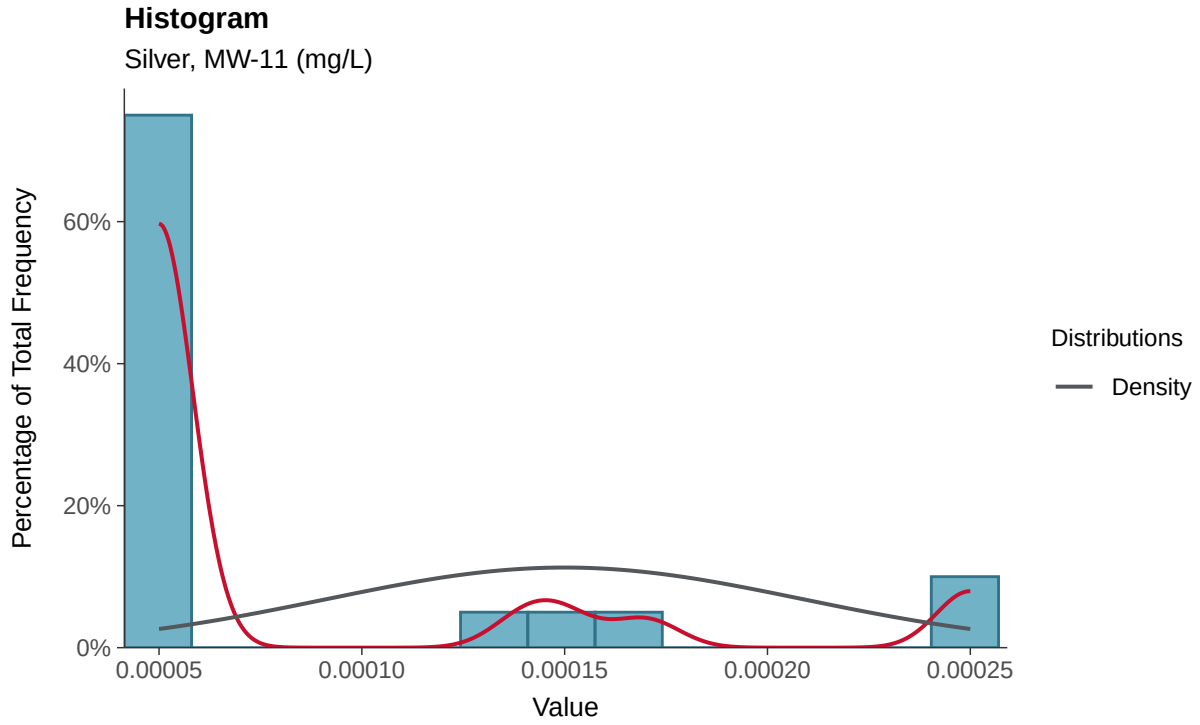
Nickel, MW-11 (mg/L)



Part 115: Silver, MW-11

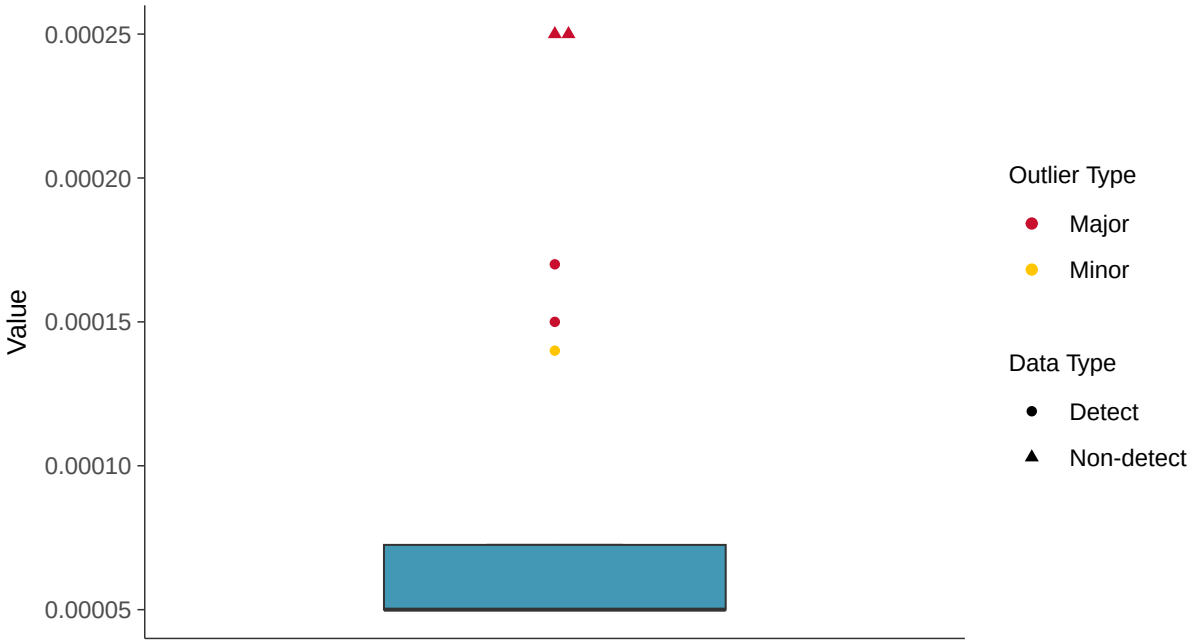
ID: 21_2_5_123





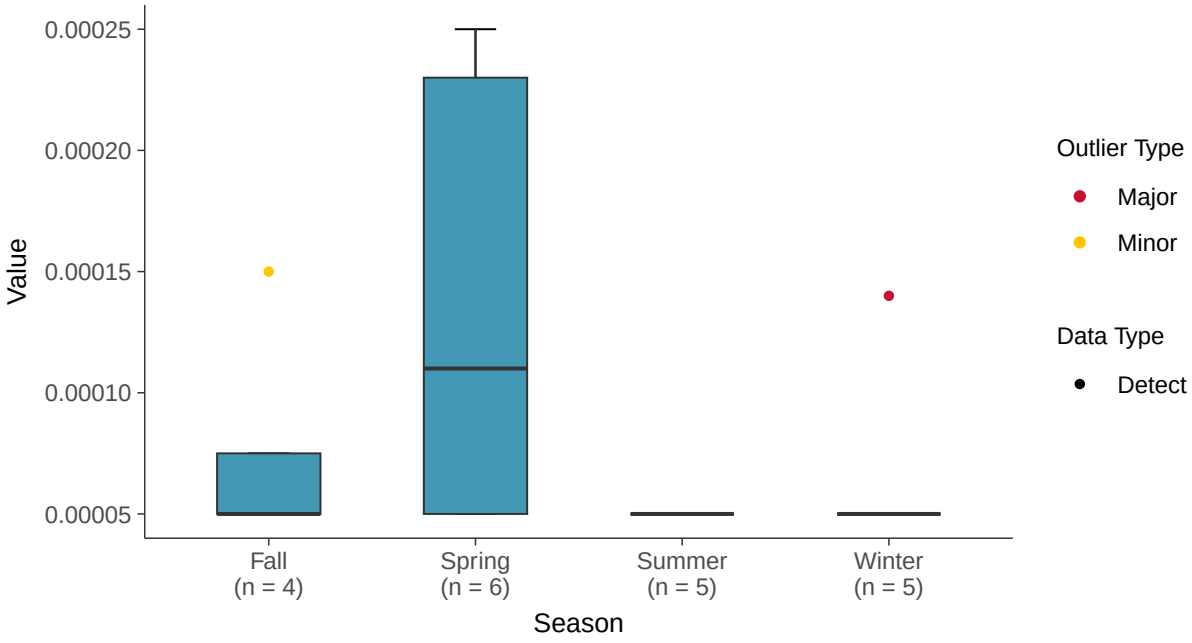
Boxplot

Silver, MW-11 (mg/L)



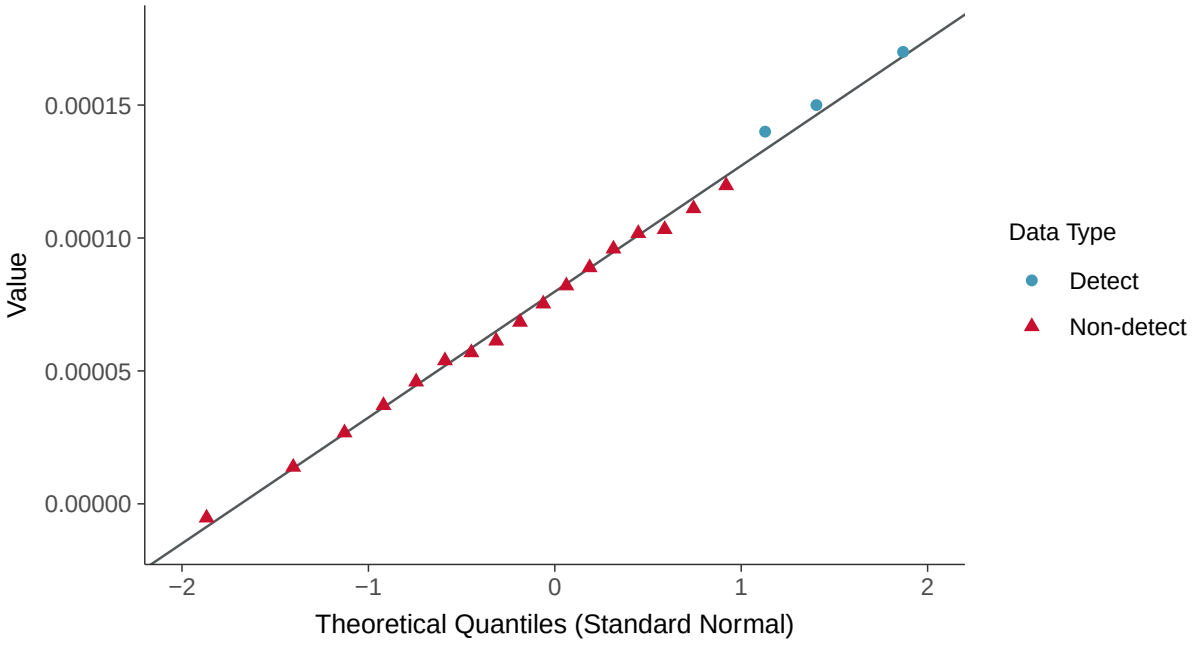
Boxplot by Season

Silver, MW-11 (mg/L)



Normal Q-Q plot using ROS Imputed Estimates

Silver, MW-11 (mg/L)

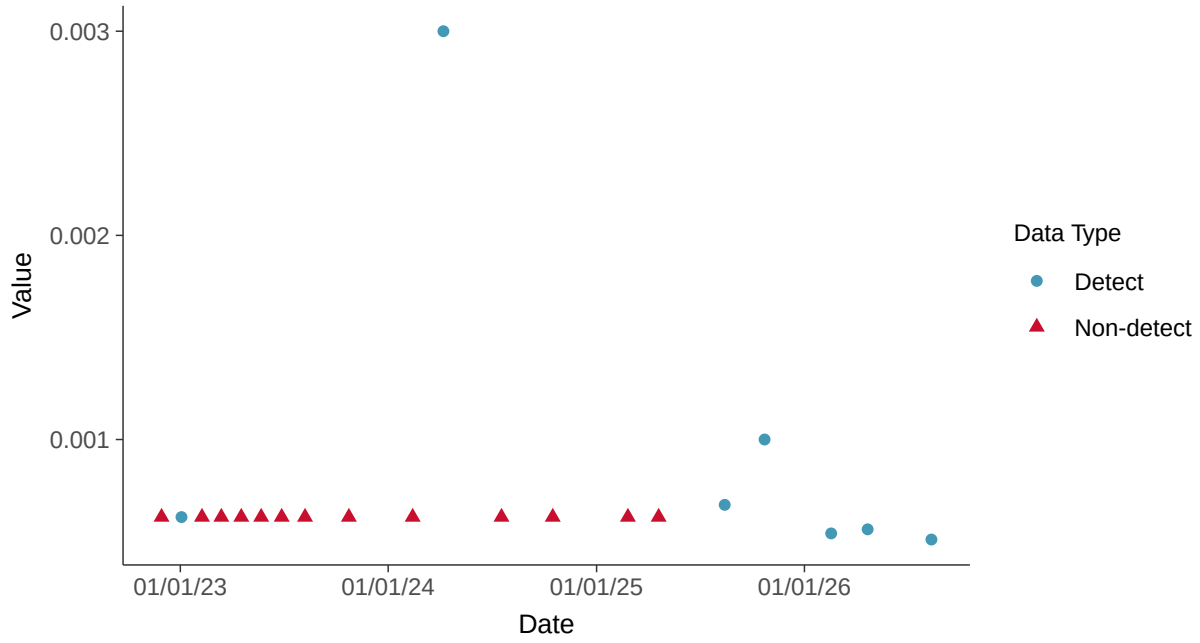


Part 115: Vanadium, MW-11

ID: 21_2_5_128

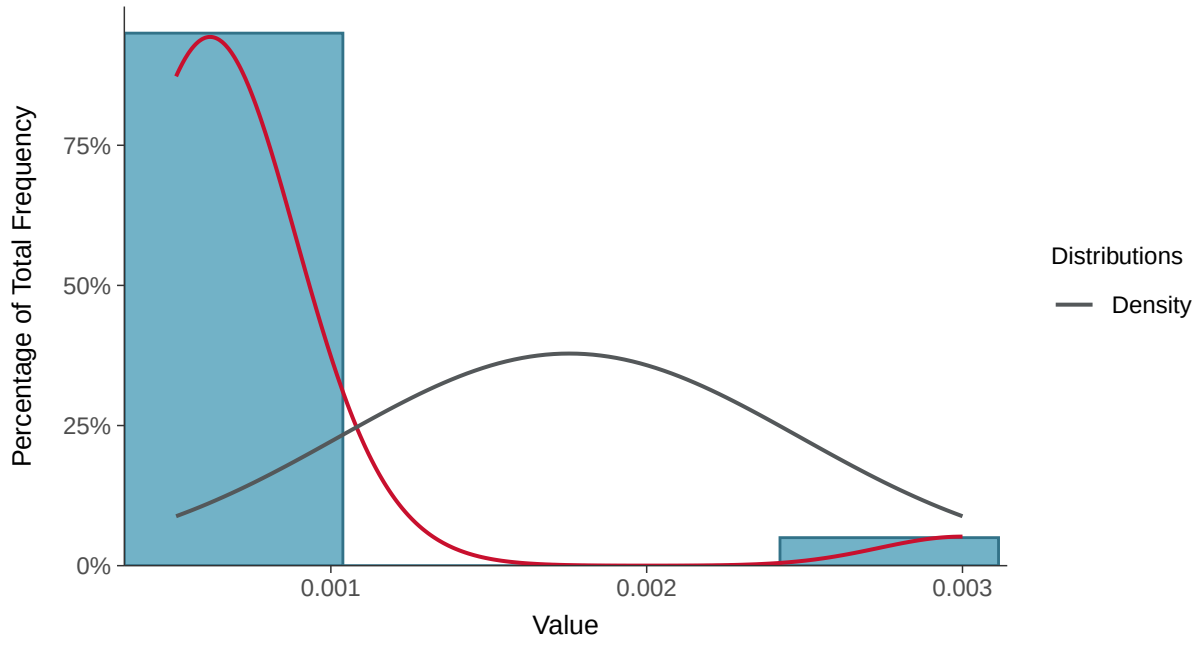
Scatter Plot

Vanadium, MW-11 (mg/L)



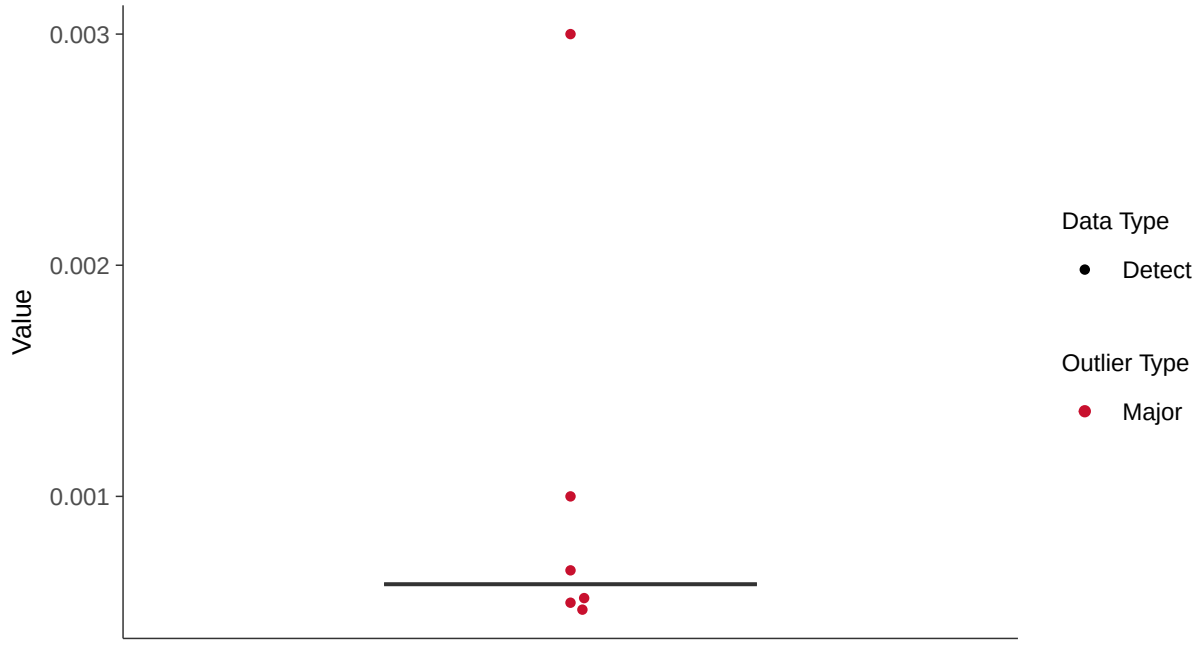
Histogram

Vanadium, MW-11 (mg/L)



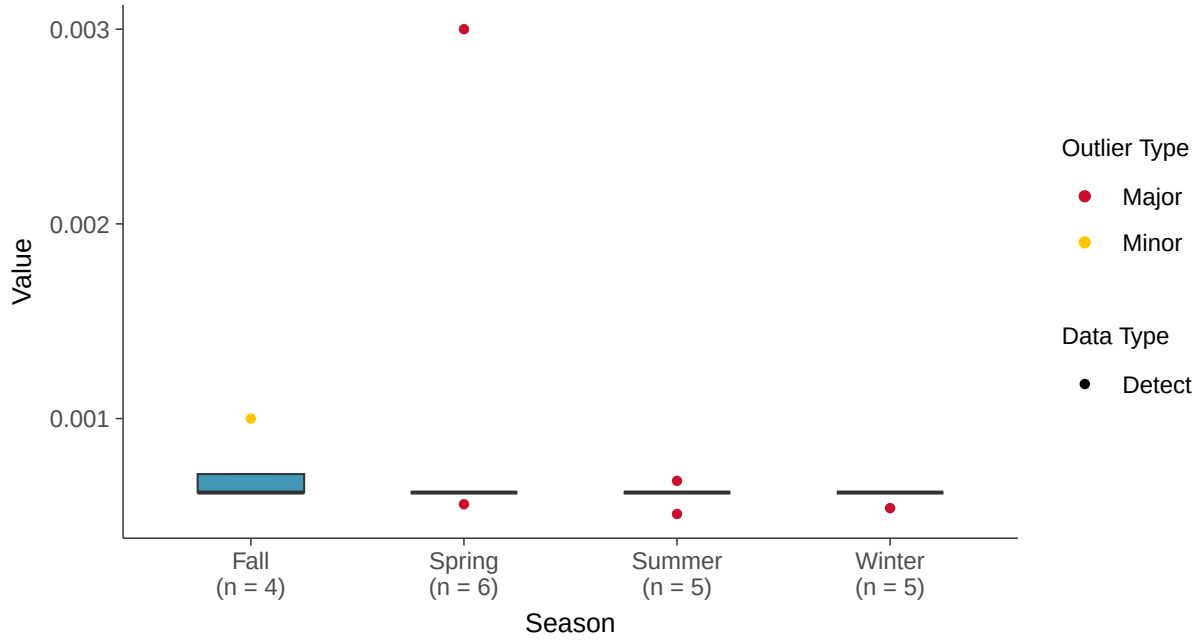
Boxplot

Vanadium, MW-11 (mg/L)



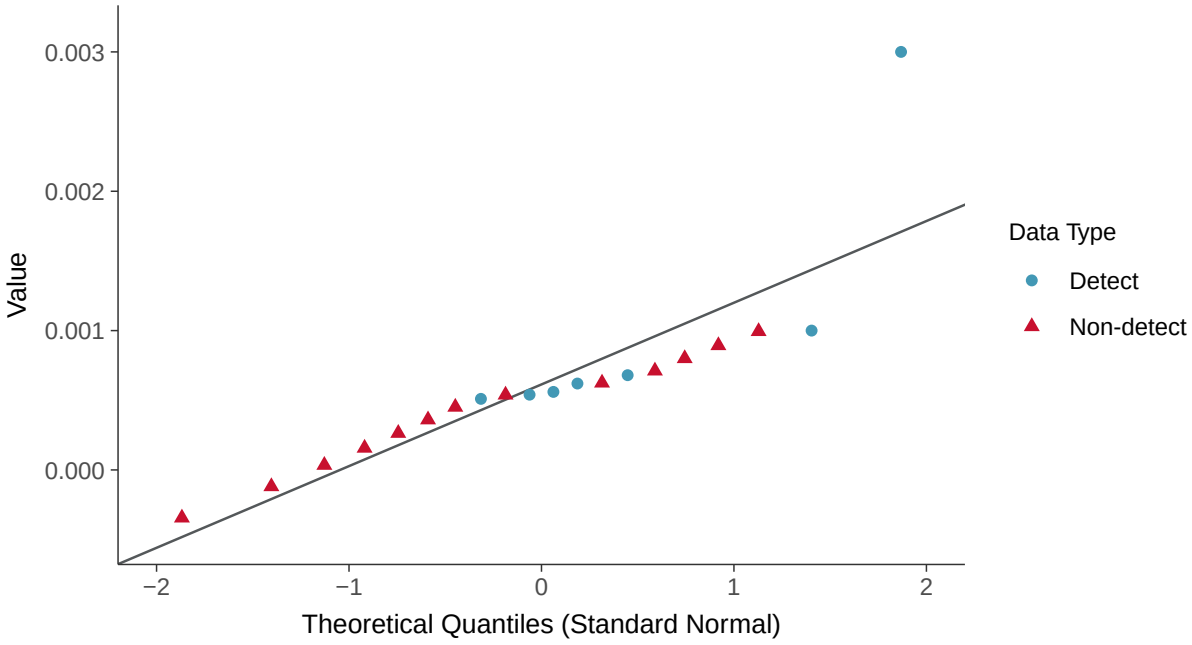
Boxplot by Season

Vanadium, MW-11 (mg/L)



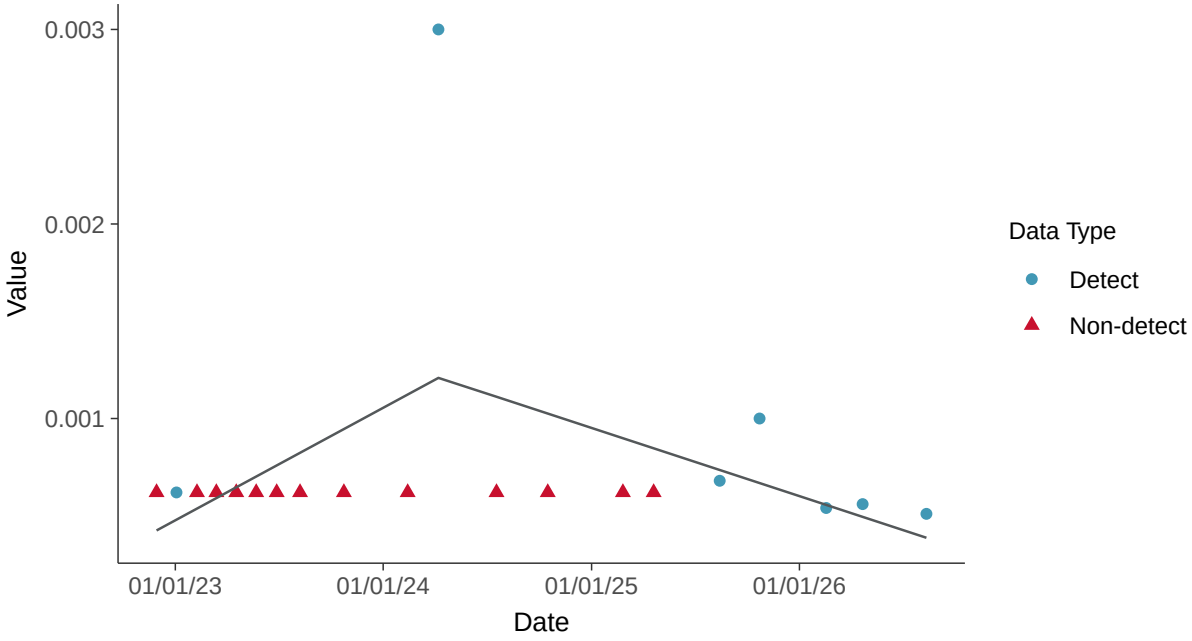
Normal Q-Q plot using ROS Imputed Estimates

Vanadium, MW-11 (mg/L)



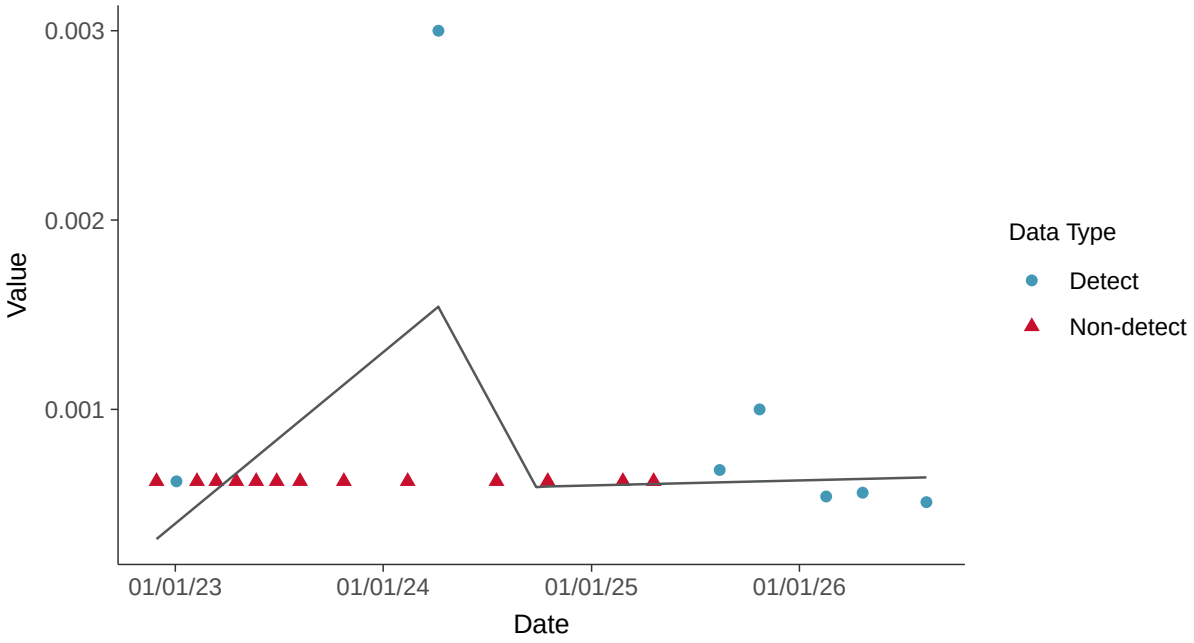
Trend Regression: Piecewise Linear-Linear

Vanadium, MW-11 (mg/L)



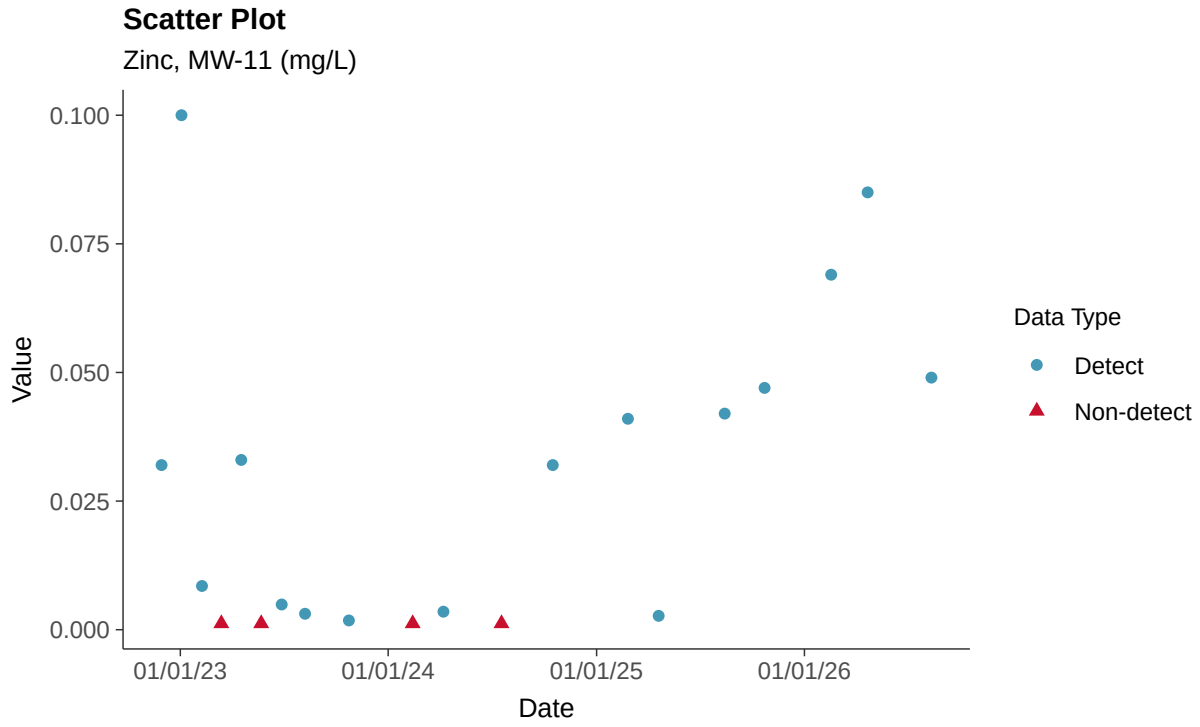
Trend Regression: Piecewise Linear-Linear-Linear

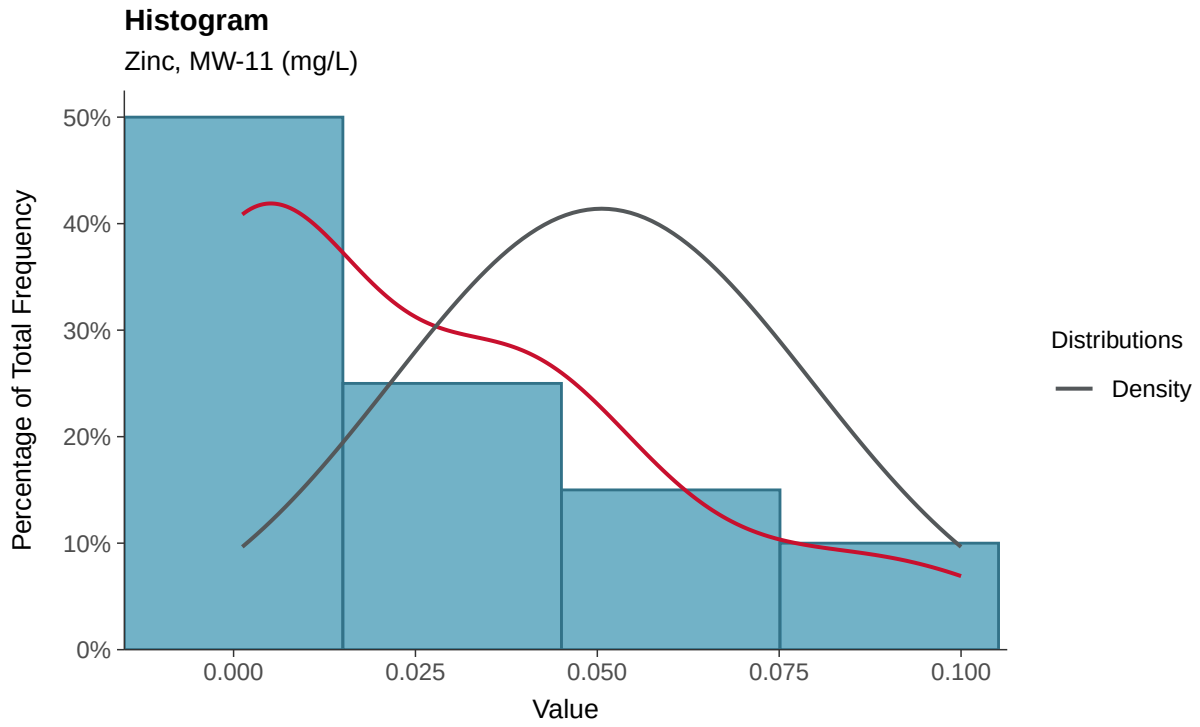
Vanadium, MW-11 (mg/L)



Part 115: Zinc, MW-11

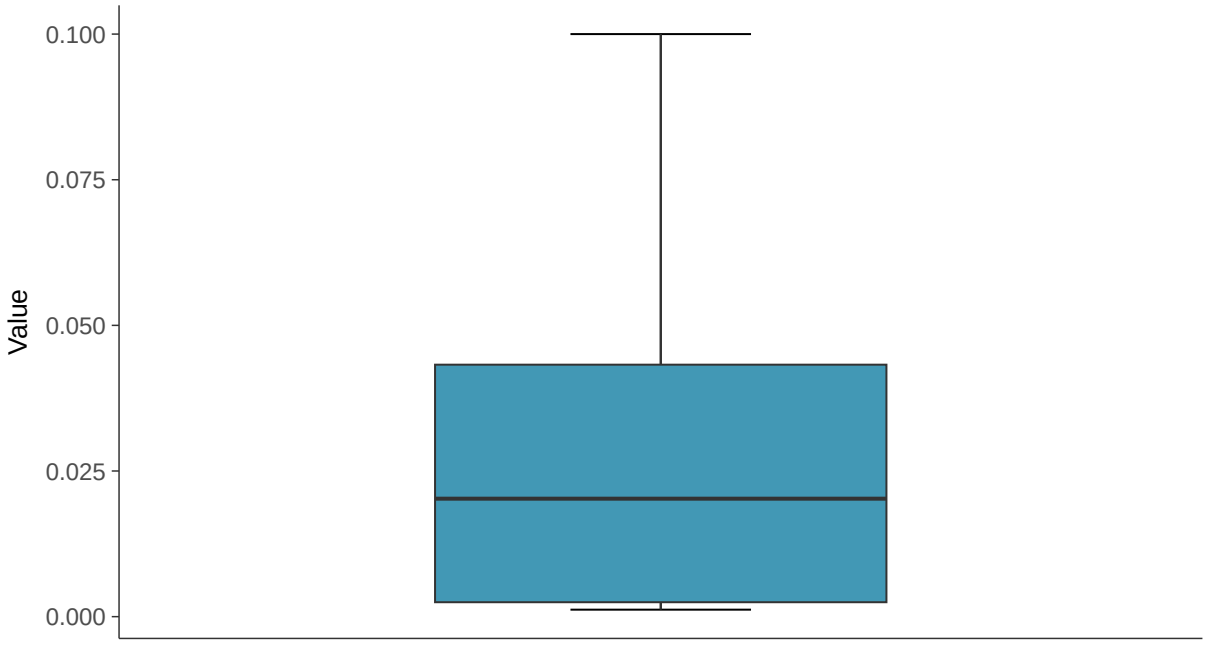
ID: 21_2_5_129





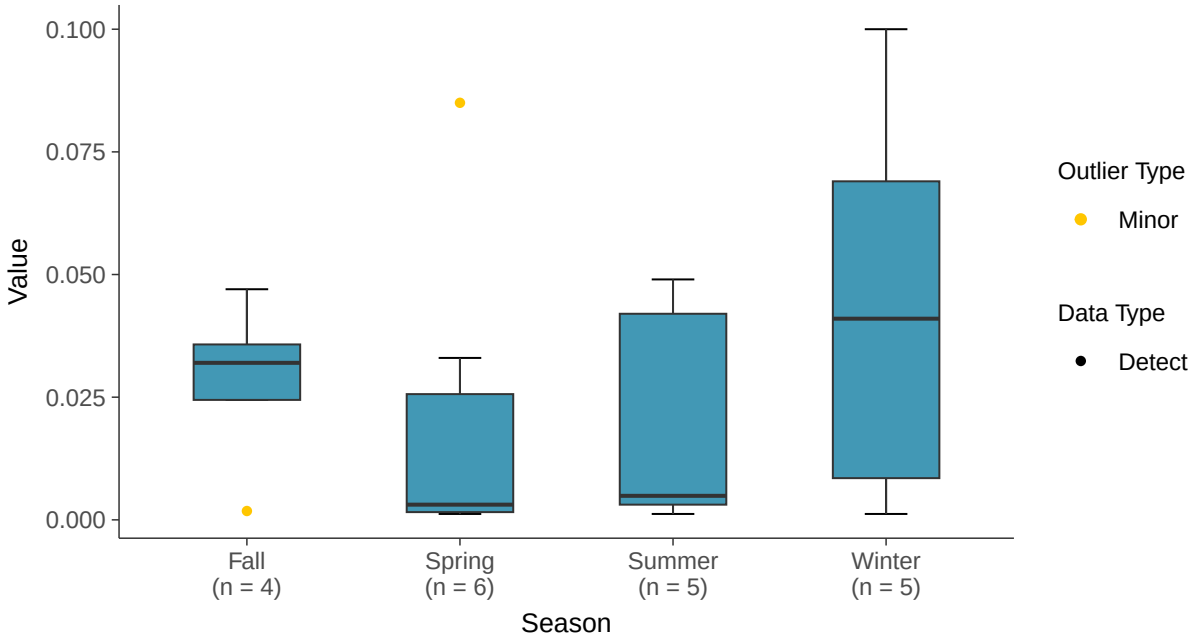
Boxplot

Zinc, MW-11 (mg/L)



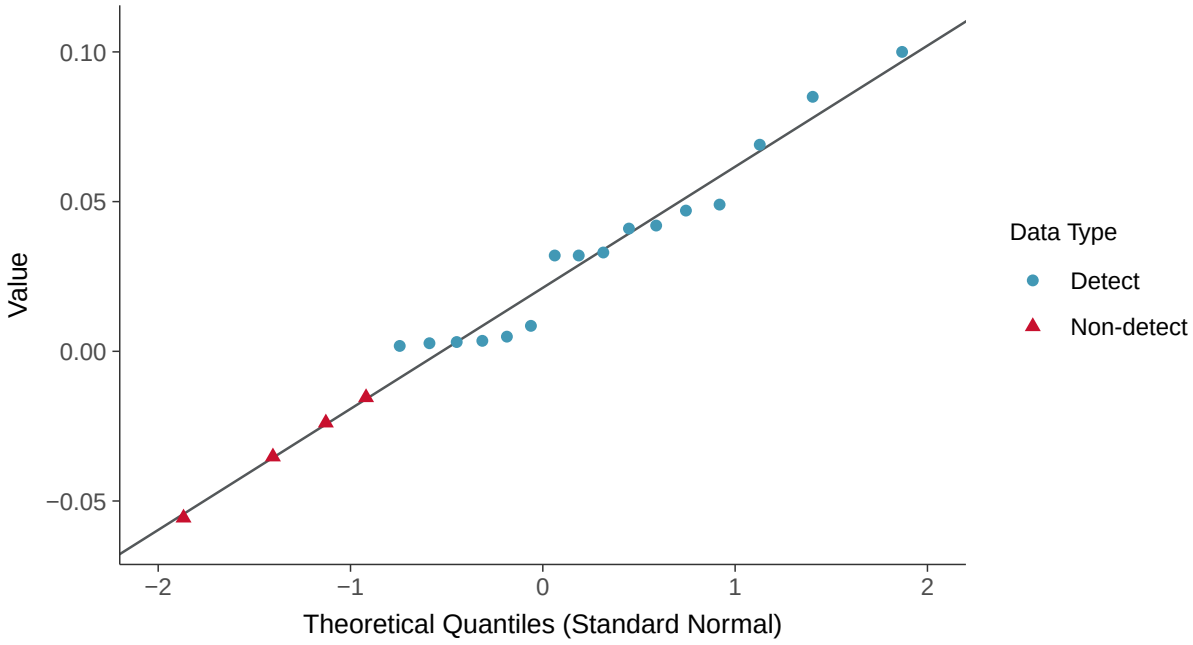
Boxplot by Season

Zinc, MW-11 (mg/L)



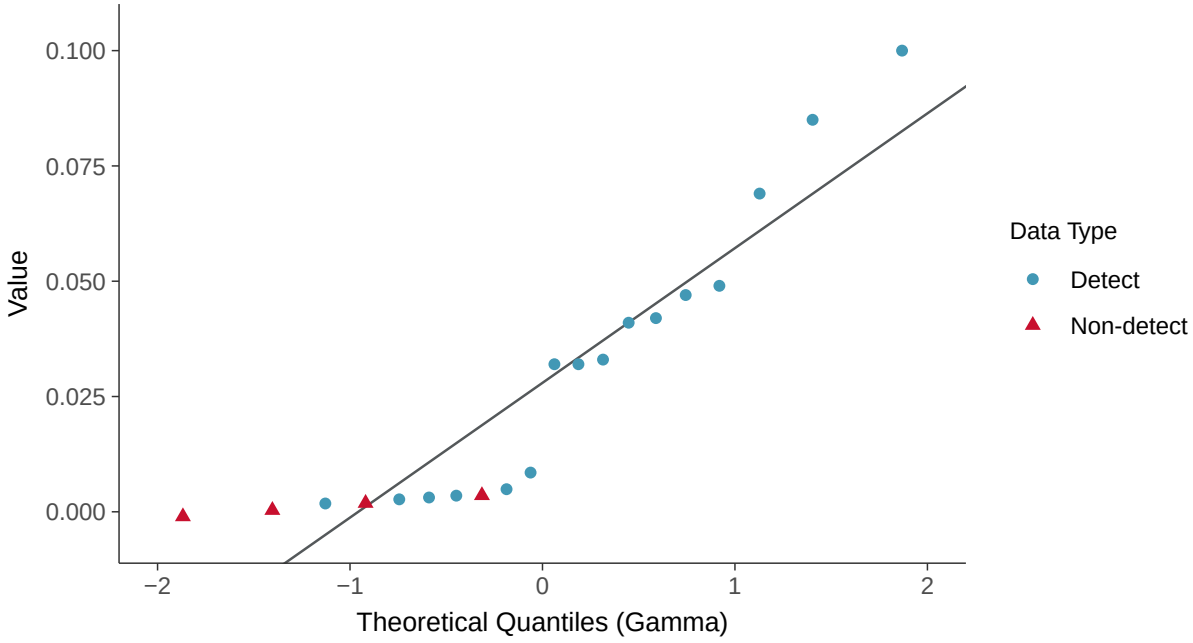
Normal Q-Q plot using ROS Imputed Estimates

Zinc, MW-11 (mg/L)



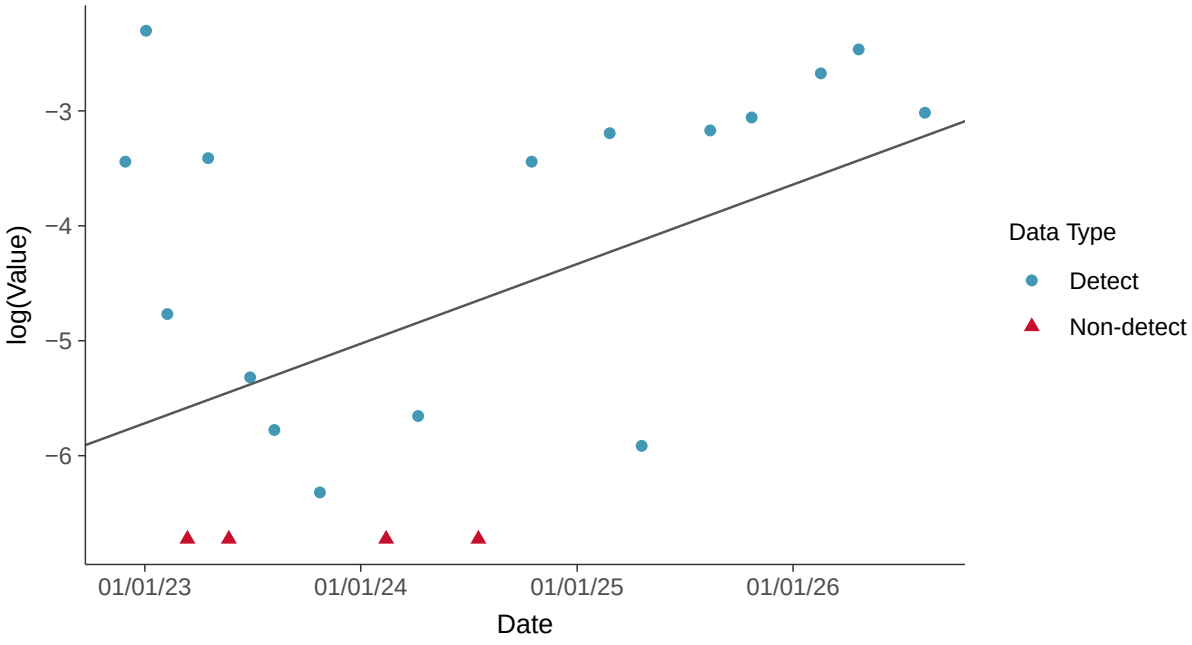
Gamma Q-Q plot using ROS Imputed Estimates

Zinc, MW-11 (mg/L)



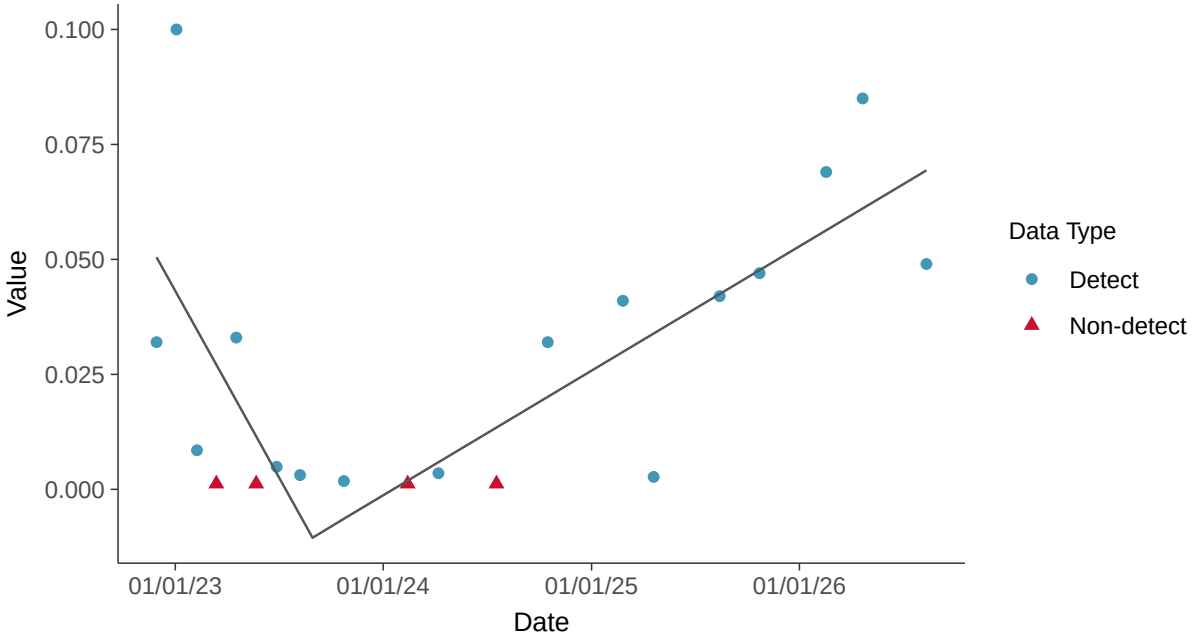
Trend Regression: Lognormal MLE

Zinc, MW-11 (mg/L)



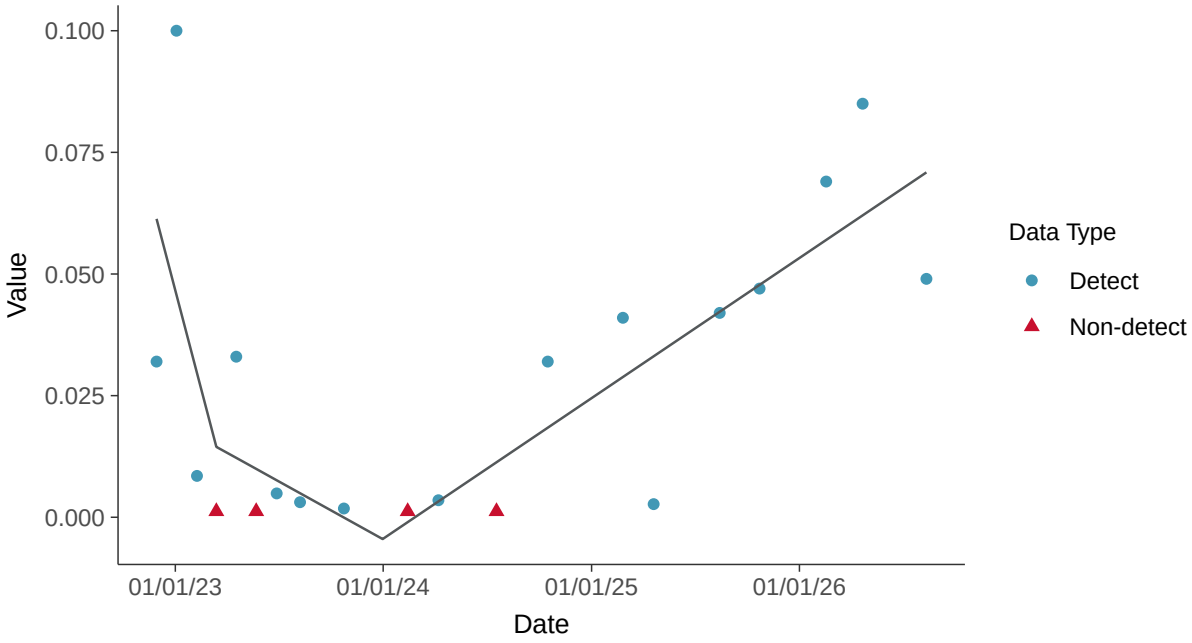
Trend Regression: Piecewise Linear-Linear

Zinc, MW-11 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Zinc, MW-11 (mg/L)

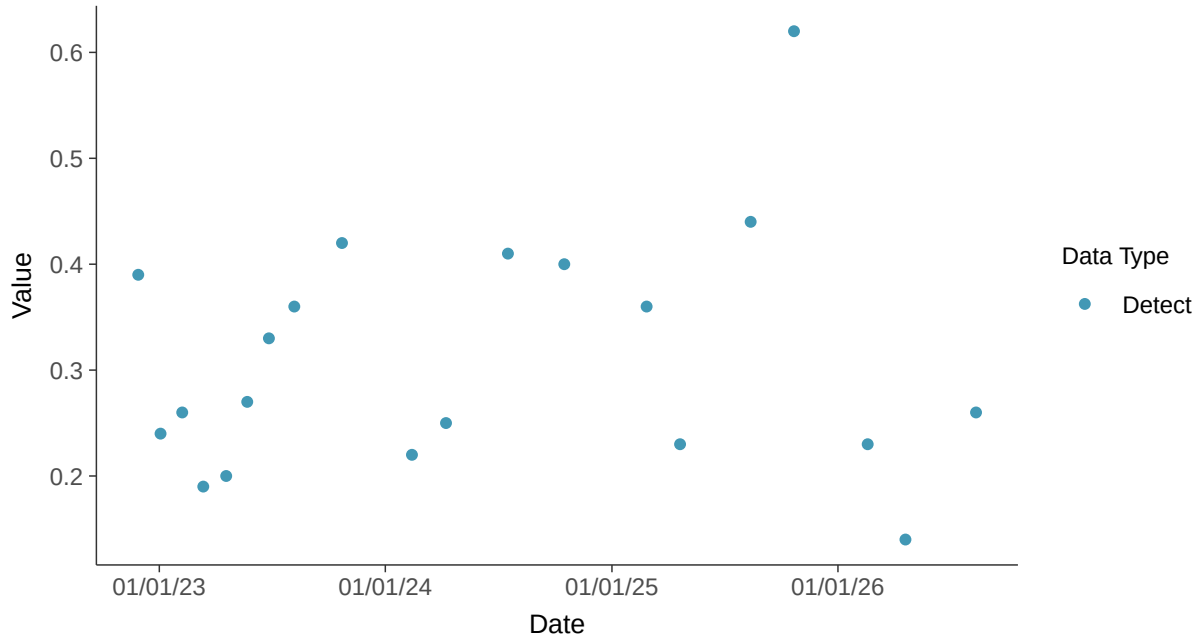


Appendix III: Boron, MW-12

ID: 22_2_3_105

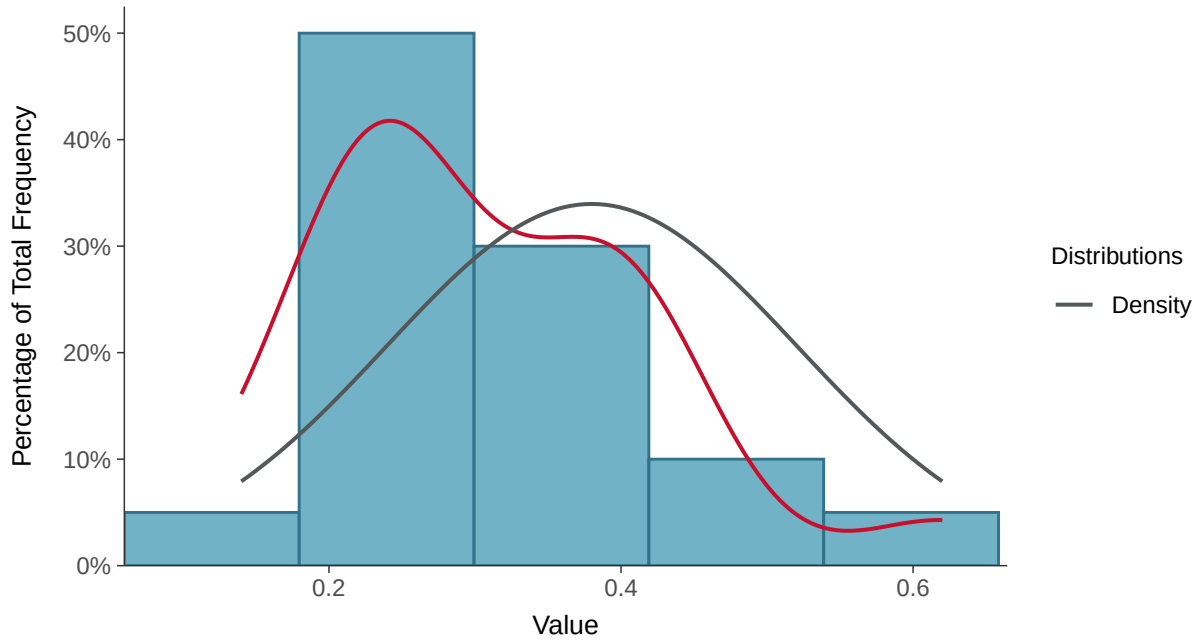
Scatter Plot

Boron, MW-12 (mg/L)



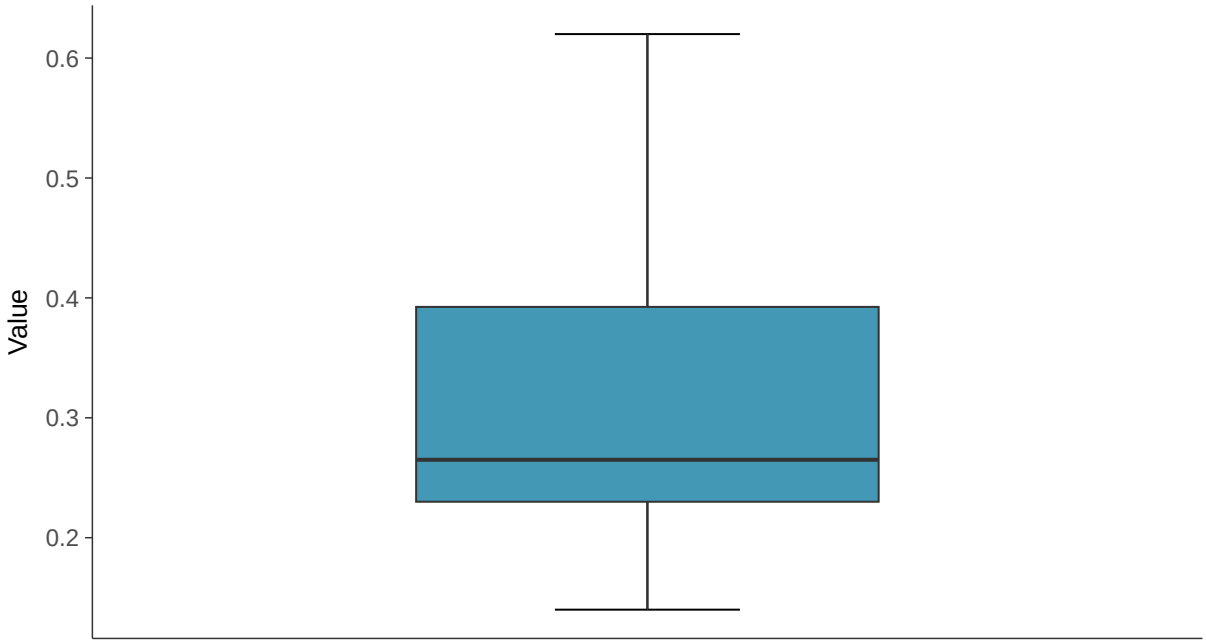
Histogram

Boron, MW-12 (mg/L)



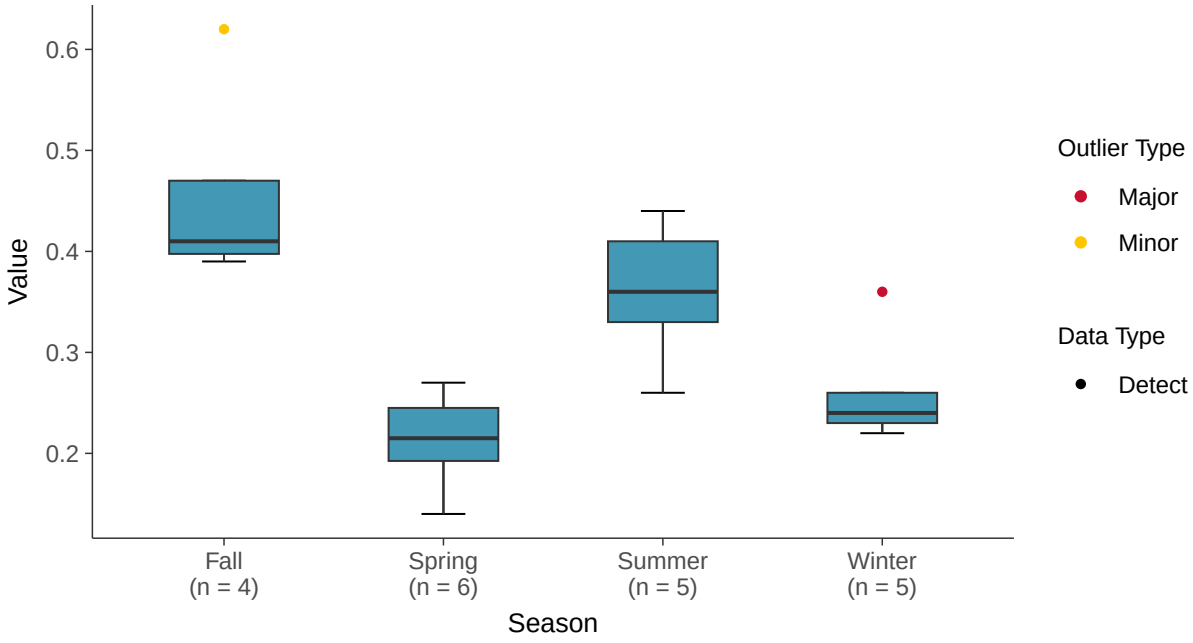
Boxplot

Boron, MW-12 (mg/L)



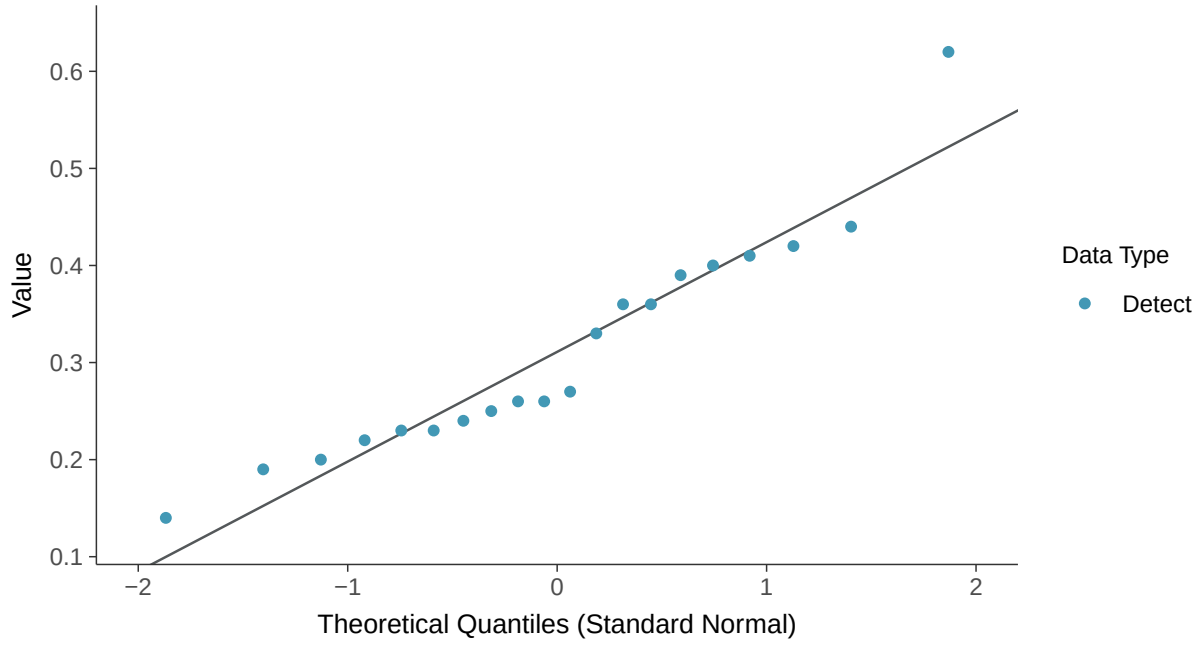
Boxplot by Season

Boron, MW-12 (mg/L)



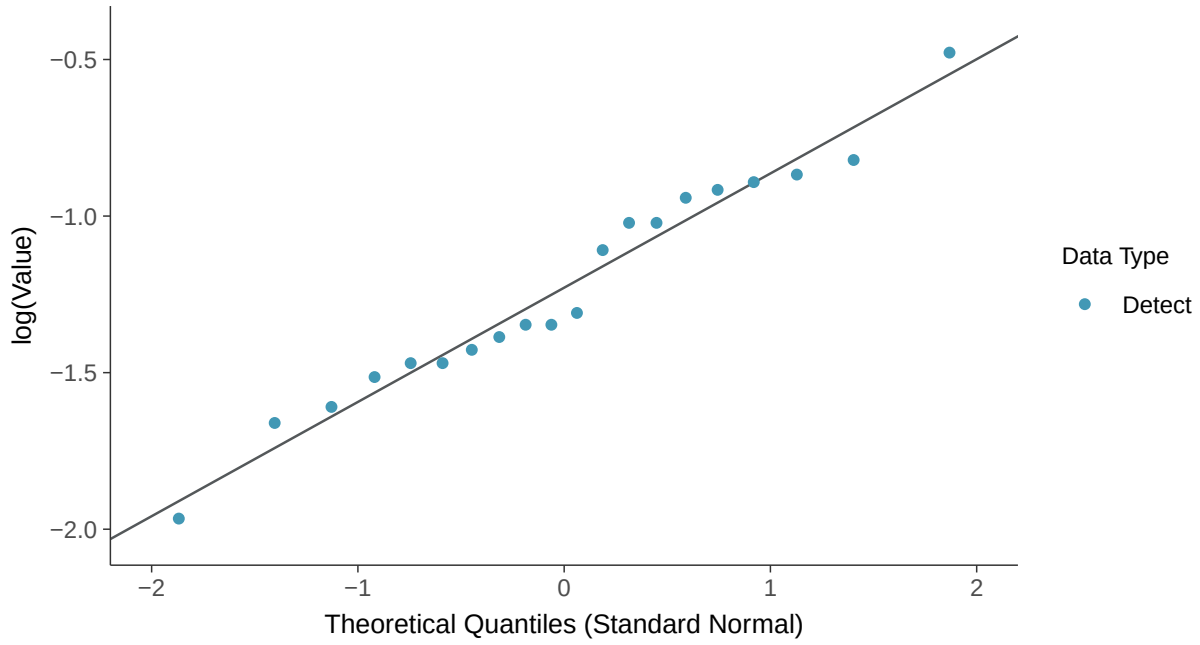
Normal Q-Q plot

Boron, MW-12 (mg/L)



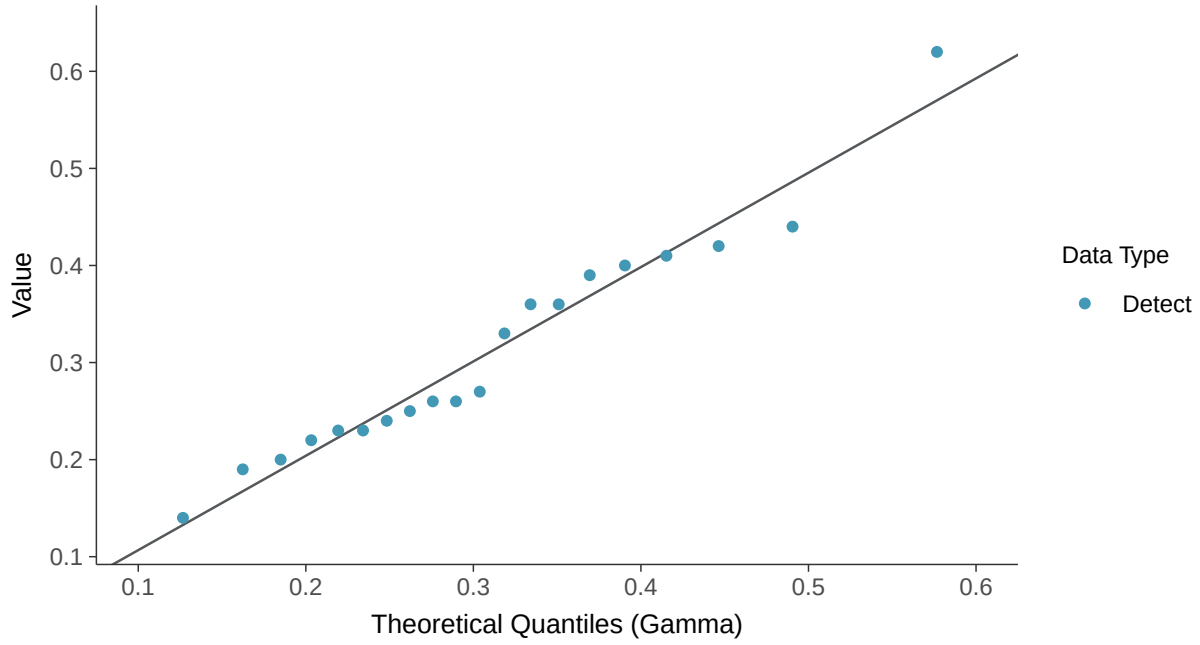
Lognormal Q-Q plot

Boron, MW-12 (mg/L)



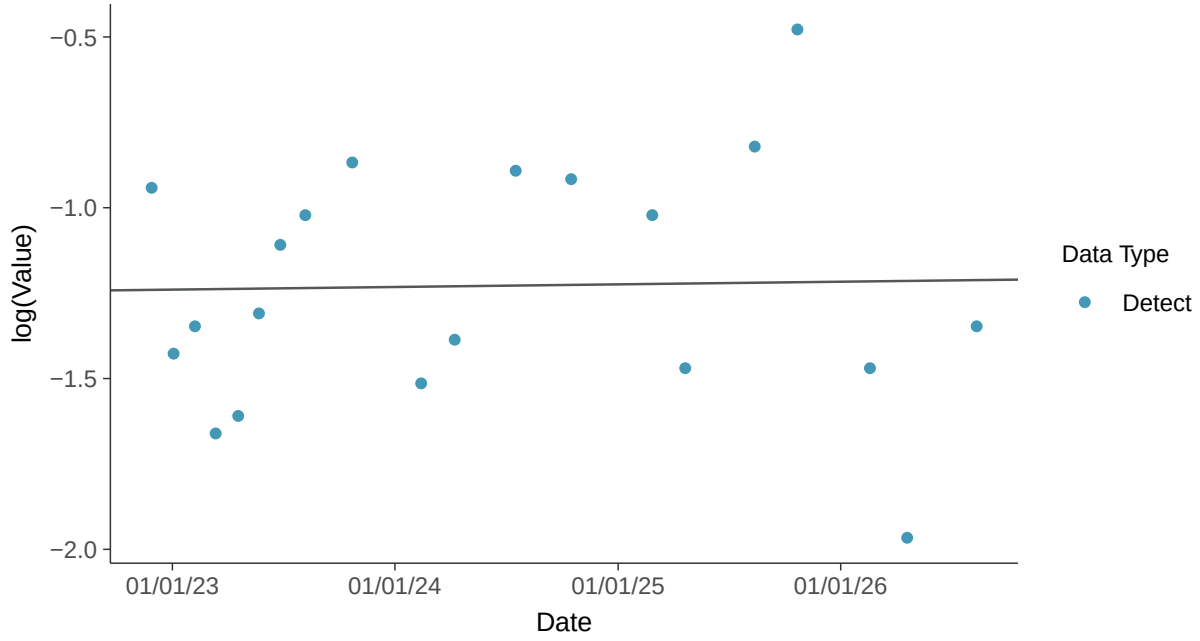
Gamma Q-Q plot

Boron, MW-12 (mg/L)



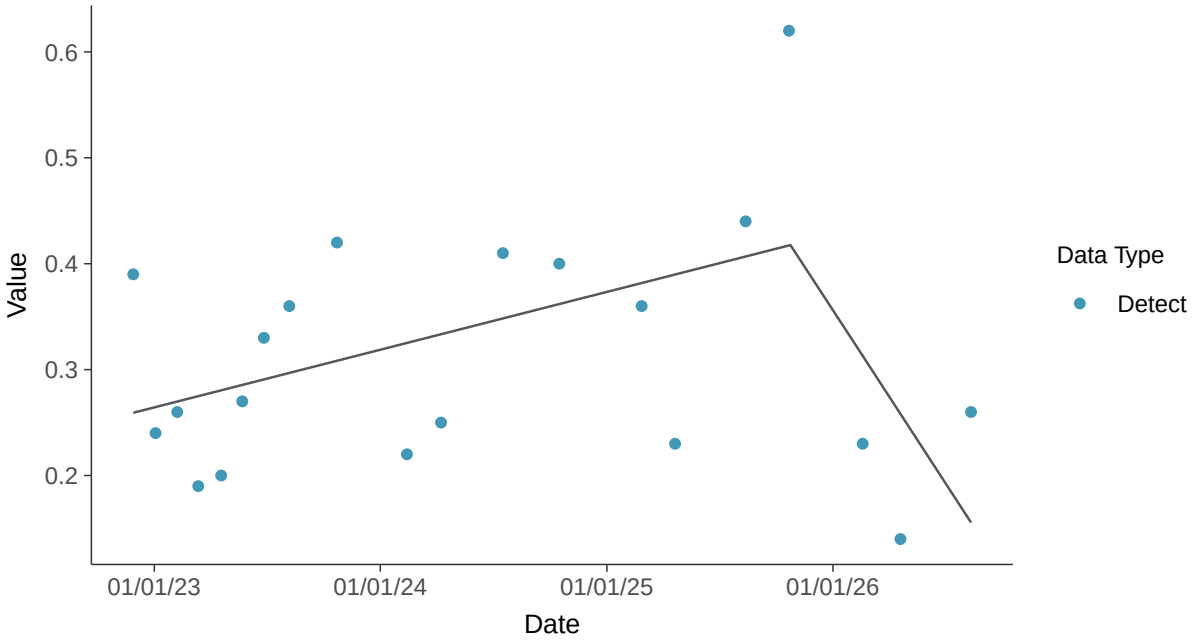
Trend Regression: Lognormal MLE

Boron, MW-12 (mg/L)



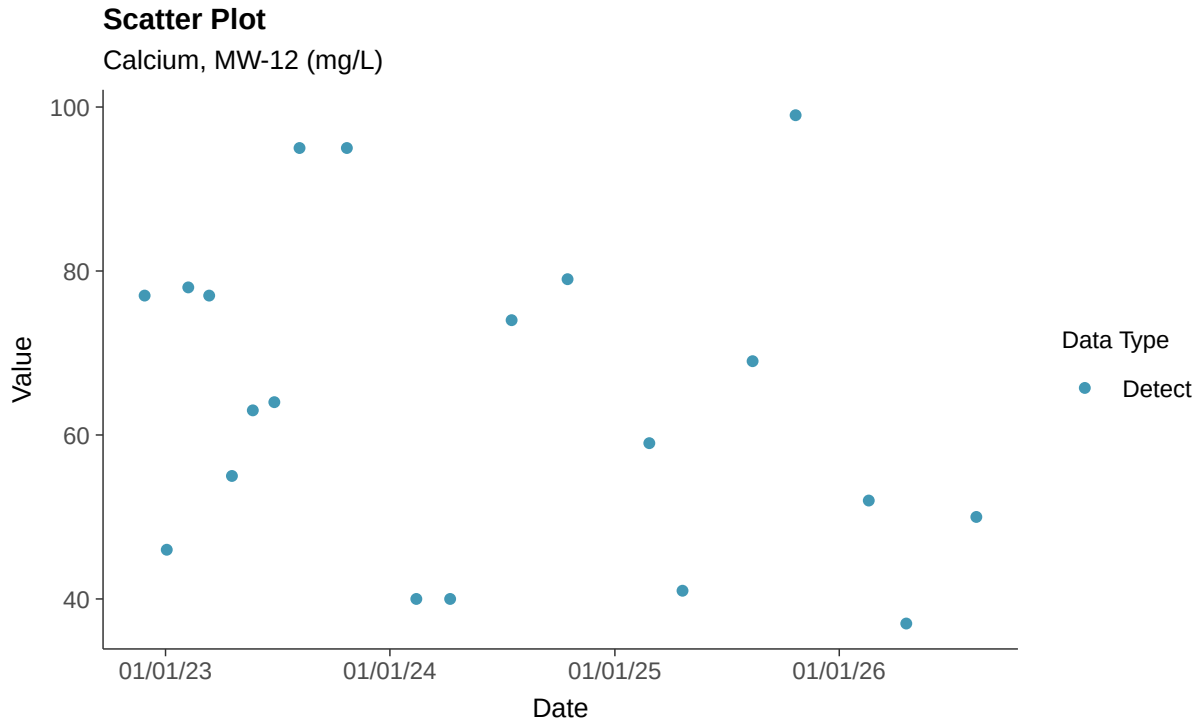
Trend Regression: Piecewise Linear-Linear

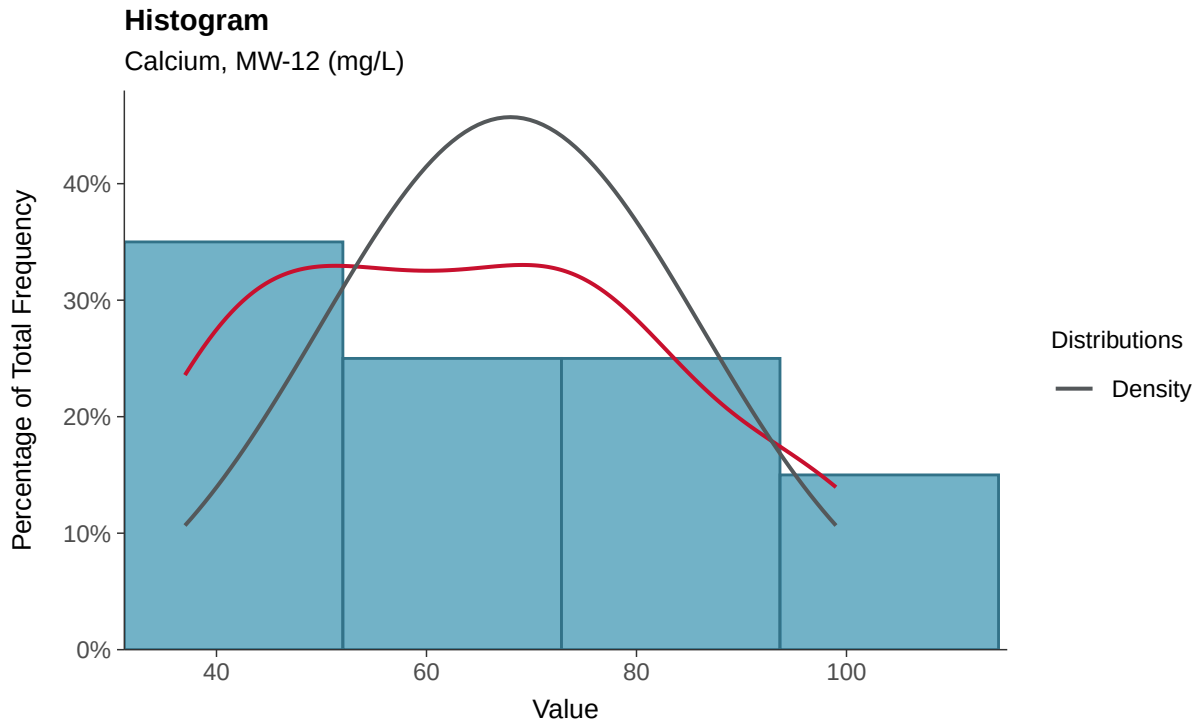
Boron, MW-12 (mg/L)



Appendix III: Calcium, MW-12

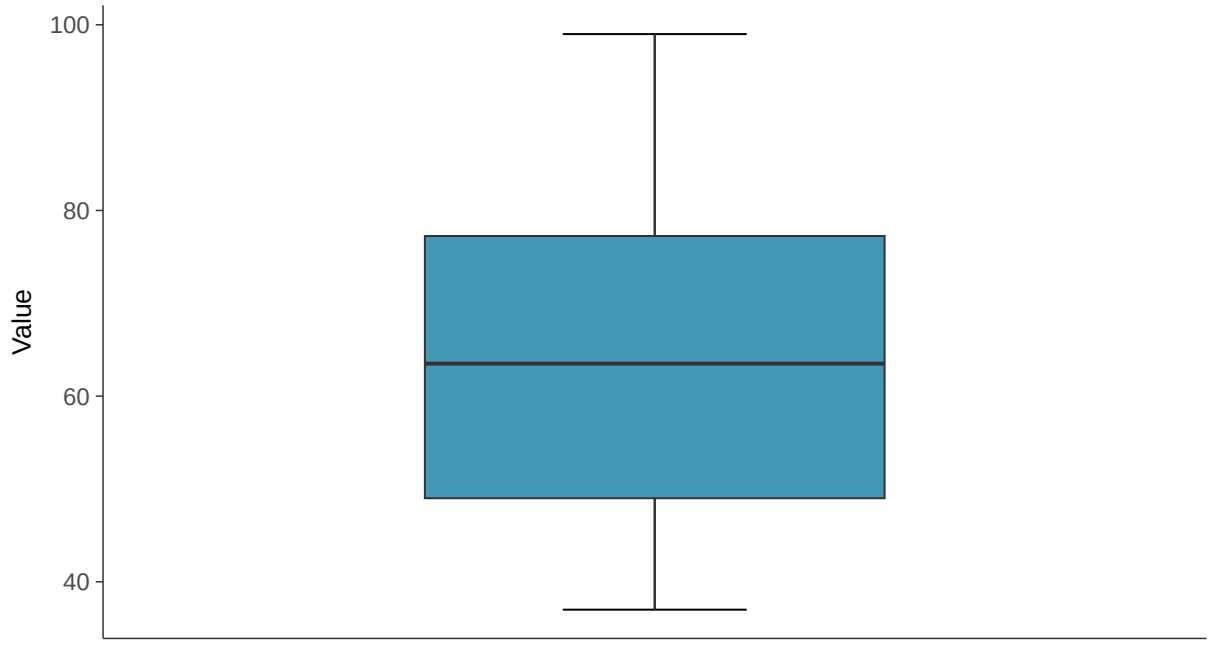
ID: 22_2_3_107





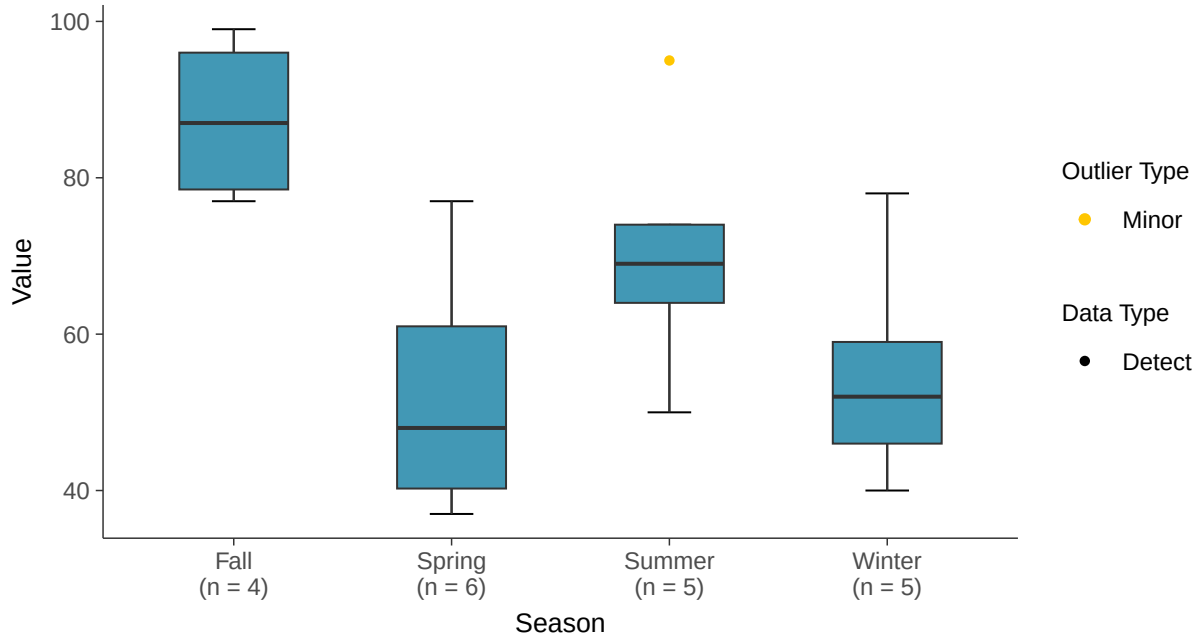
Boxplot

Calcium, MW-12 (mg/L)



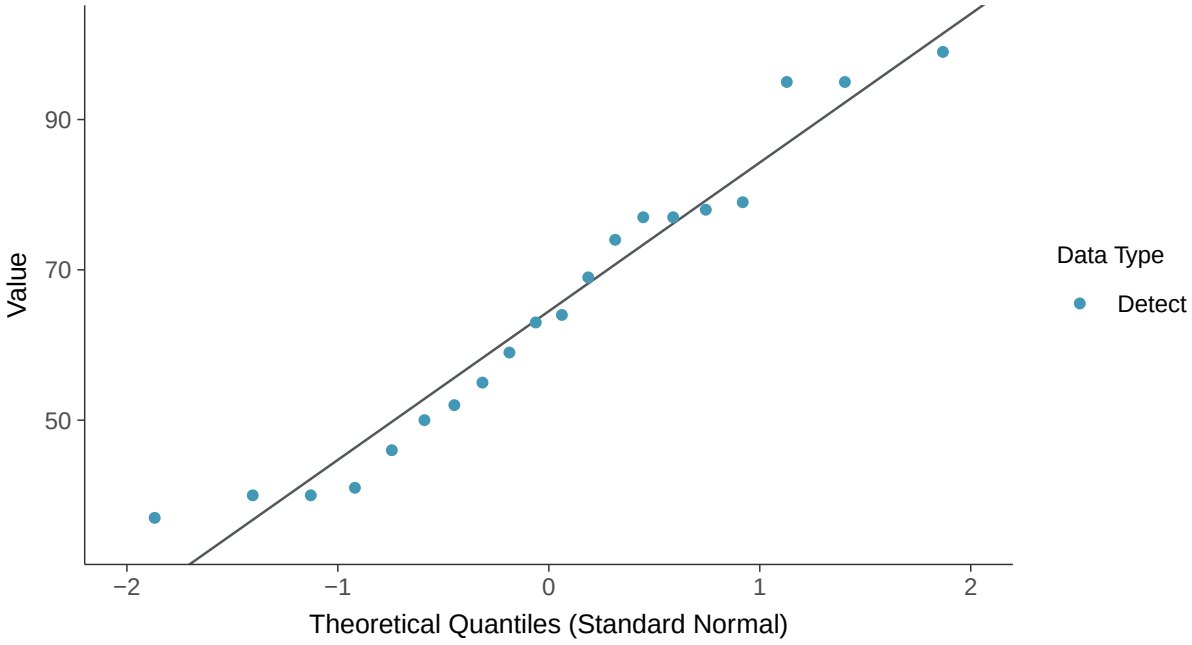
Boxplot by Season

Calcium, MW-12 (mg/L)



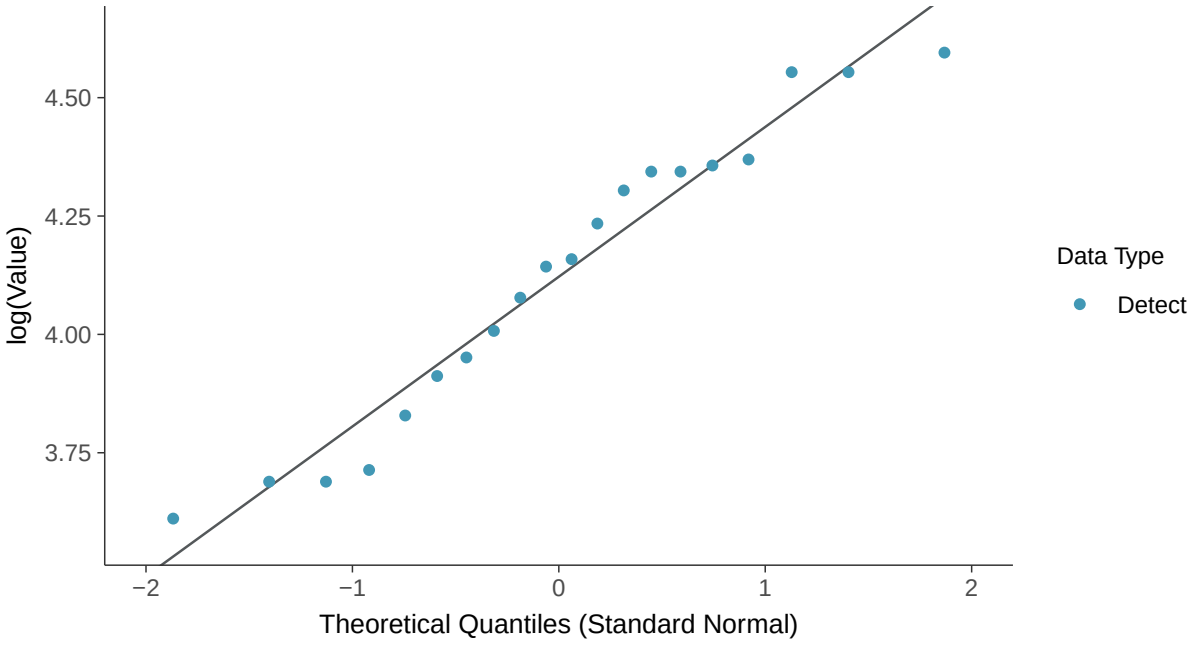
Normal Q-Q plot

Calcium, MW-12 (mg/L)



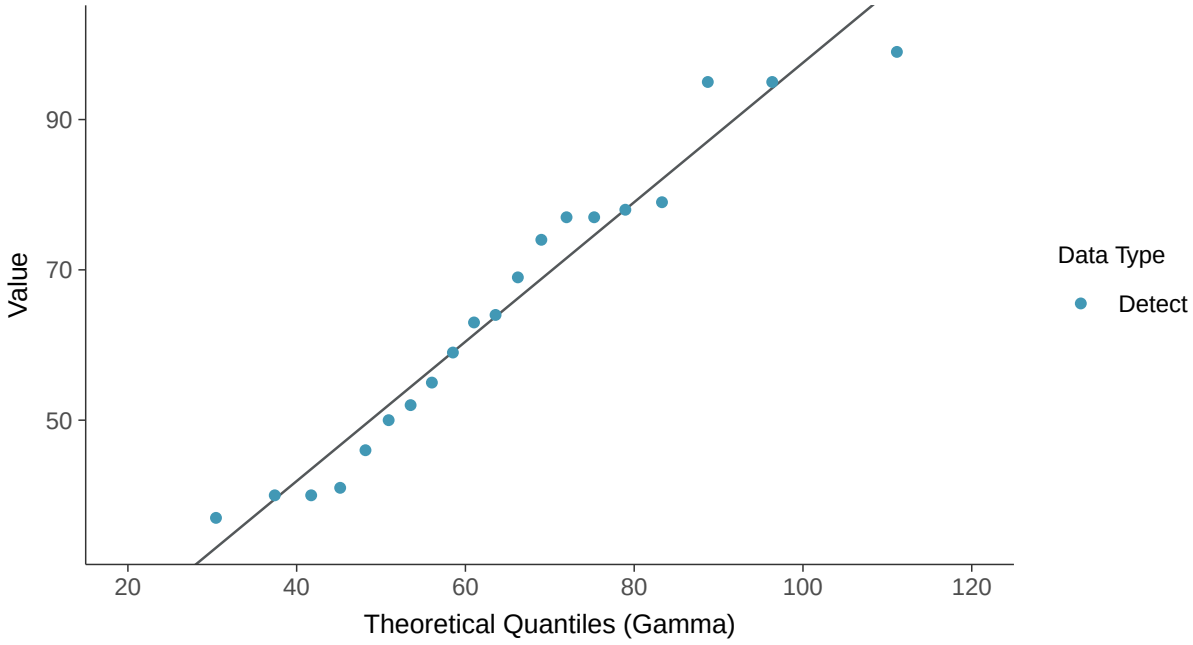
Lognormal Q-Q plot

Calcium, MW-12 (mg/L)



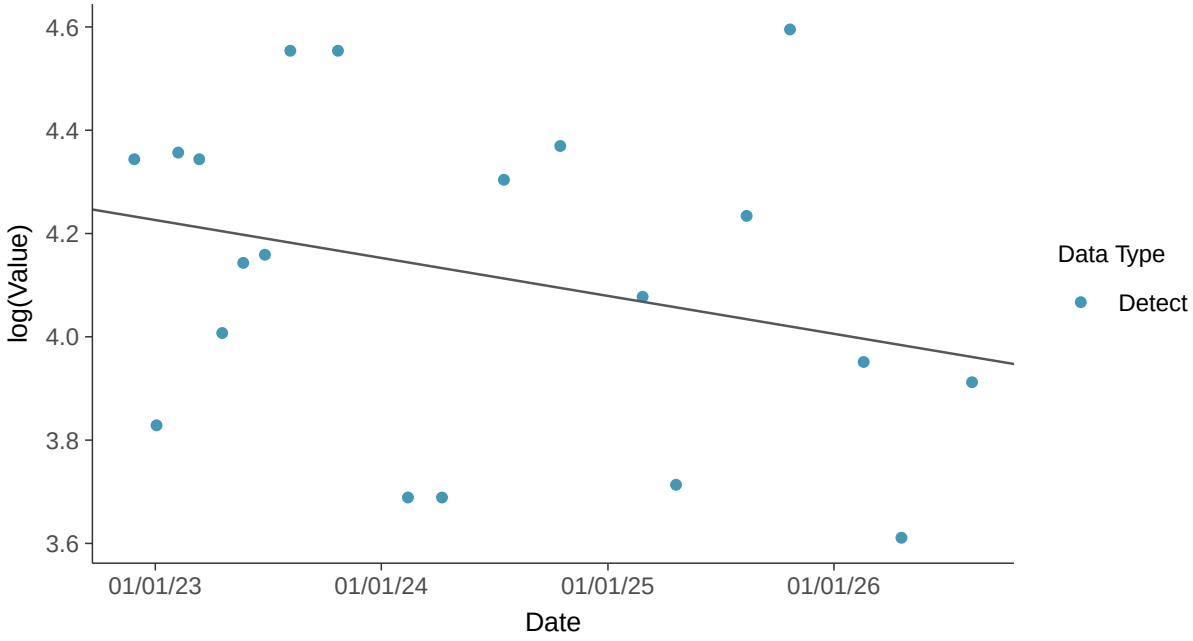
Gamma Q-Q plot

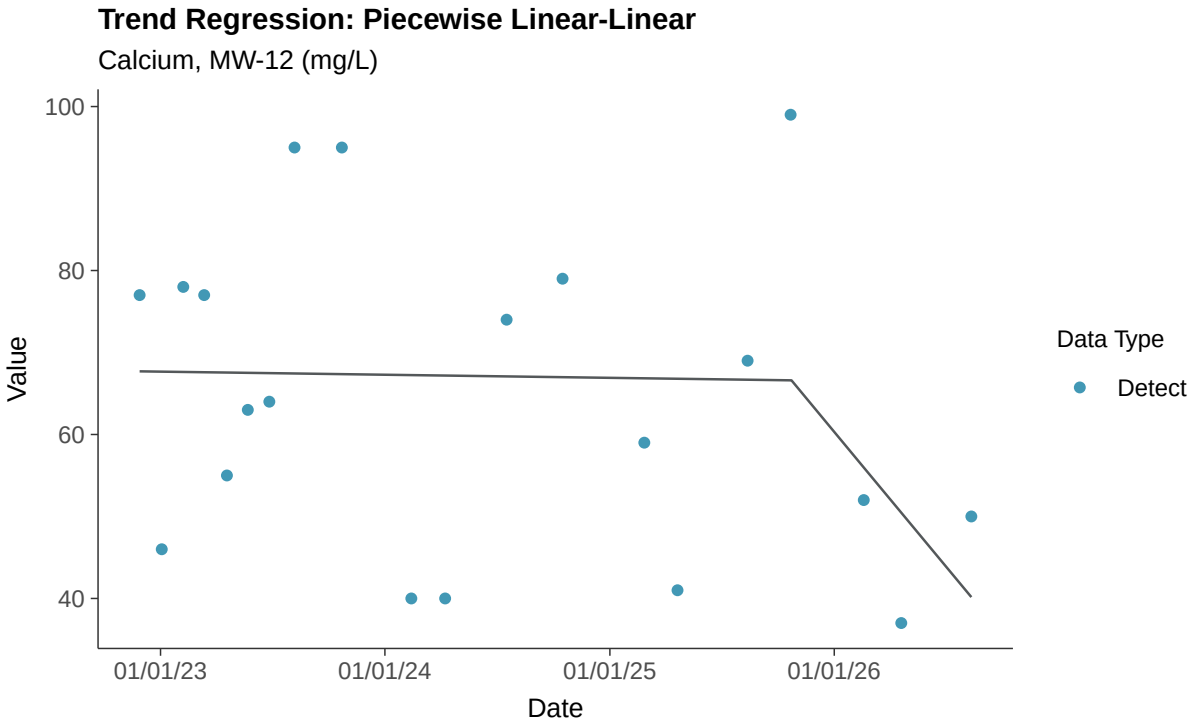
Calcium, MW-12 (mg/L)



Trend Regression: Lognormal MLE

Calcium, MW-12 (mg/L)



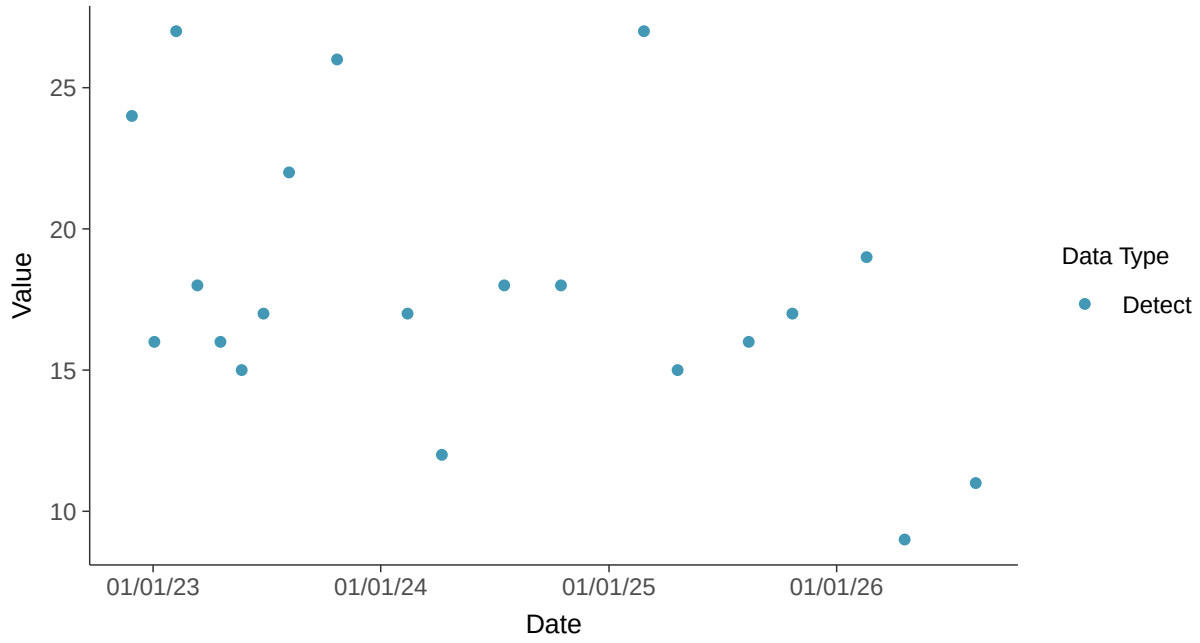

Trend Regression: Piecewise Linear-Linear
Calcium, MW-12 (mg/L)
100
80
60
40
Value
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect

Appendix III: Chloride (as Cl), MW-12

ID: 22_2_3_108

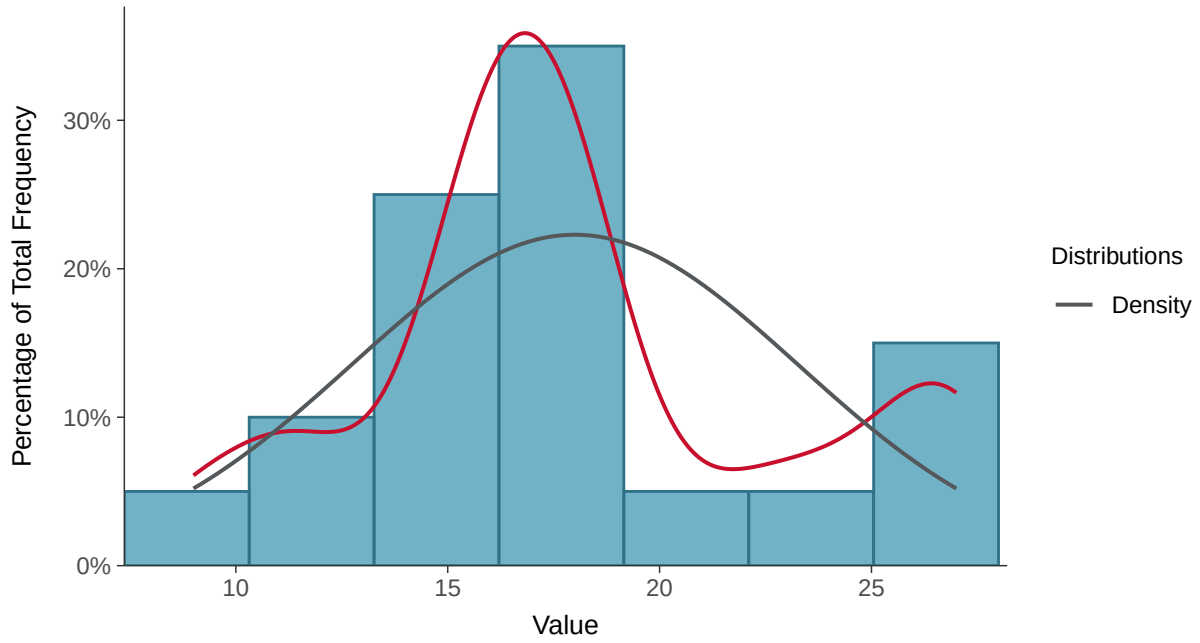
Scatter Plot

Chloride (as Cl), MW-12 (mg/L)



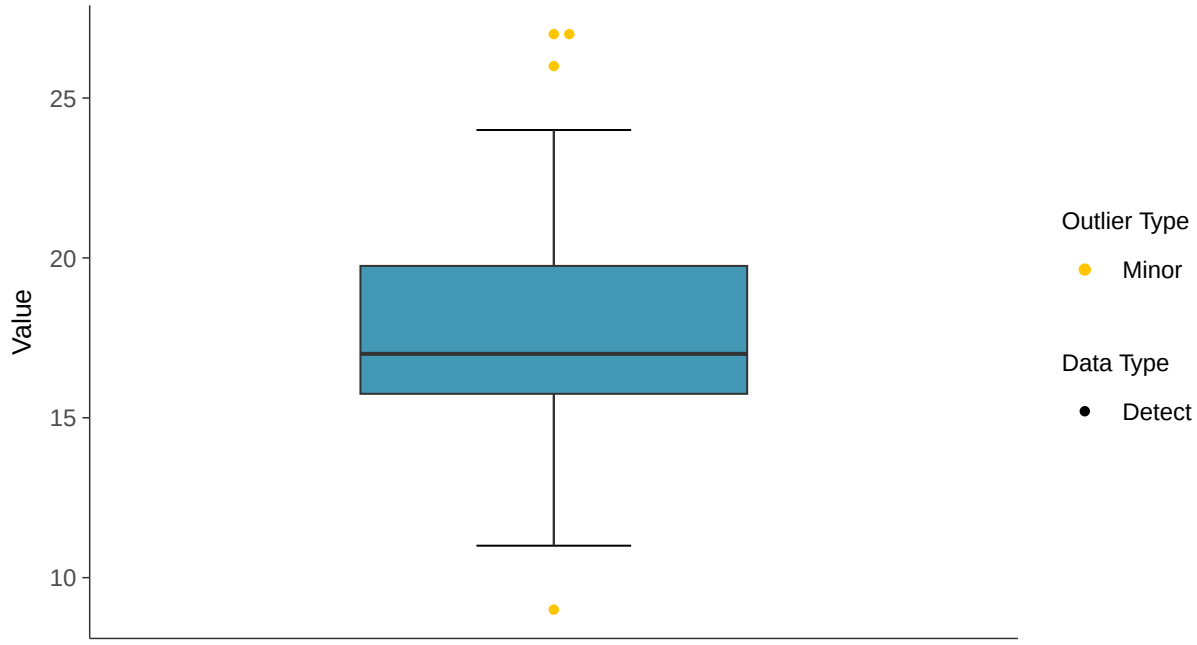
Histogram

Chloride (as Cl), MW-12 (mg/L)



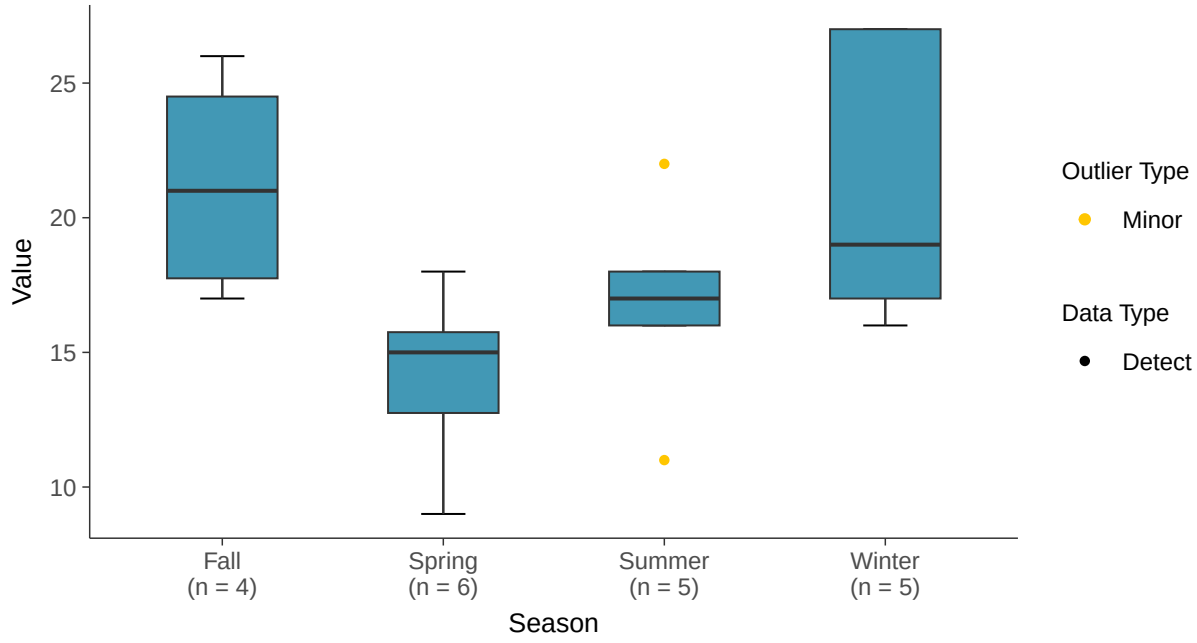
Boxplot

Chloride (as Cl), MW-12 (mg/L)



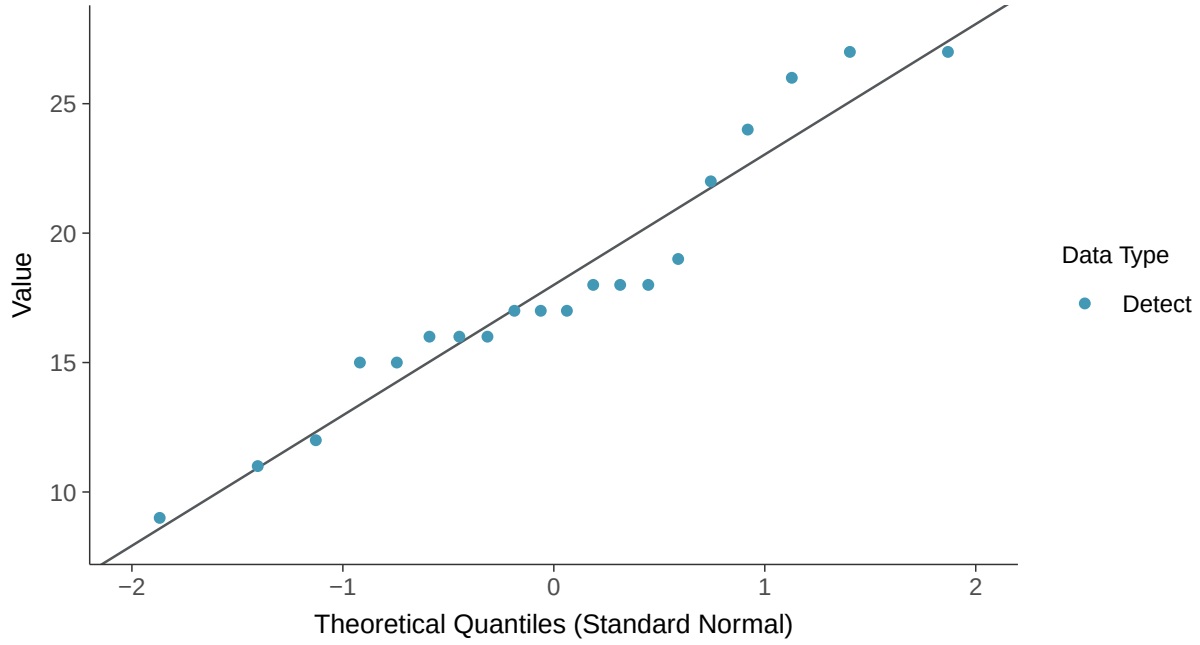
Boxplot by Season

Chloride (as Cl), MW-12 (mg/L)



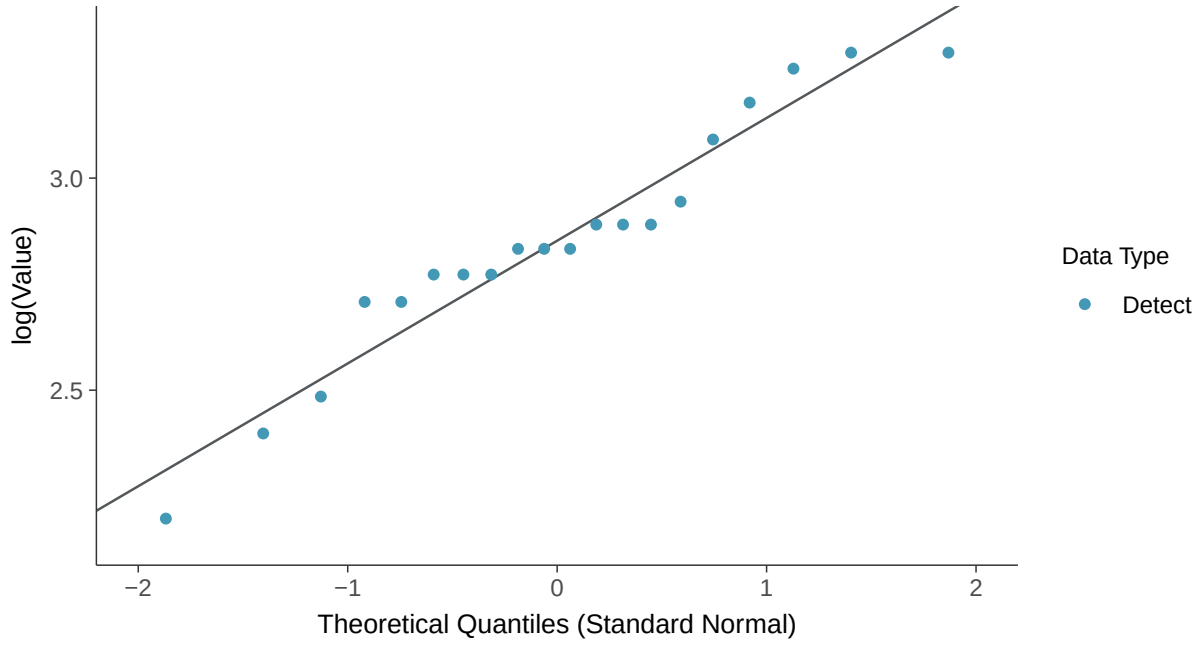
Normal Q-Q plot

Chloride (as Cl), MW-12 (mg/L)



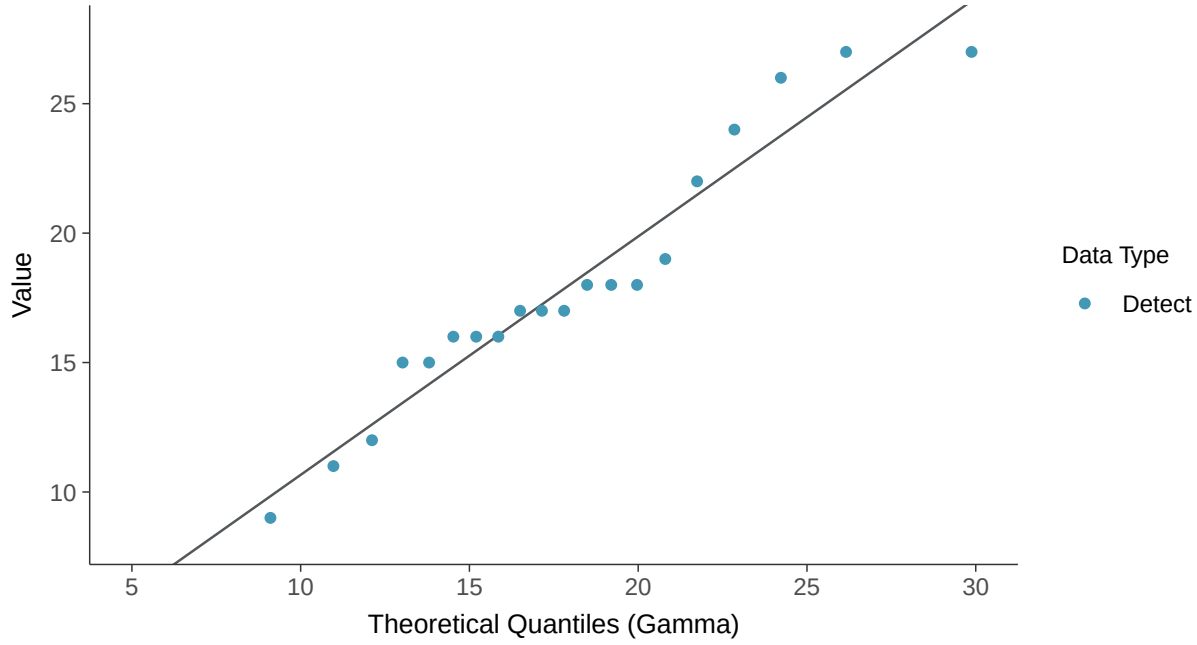
Lognormal Q-Q plot

Chloride (as Cl), MW-12 (mg/L)



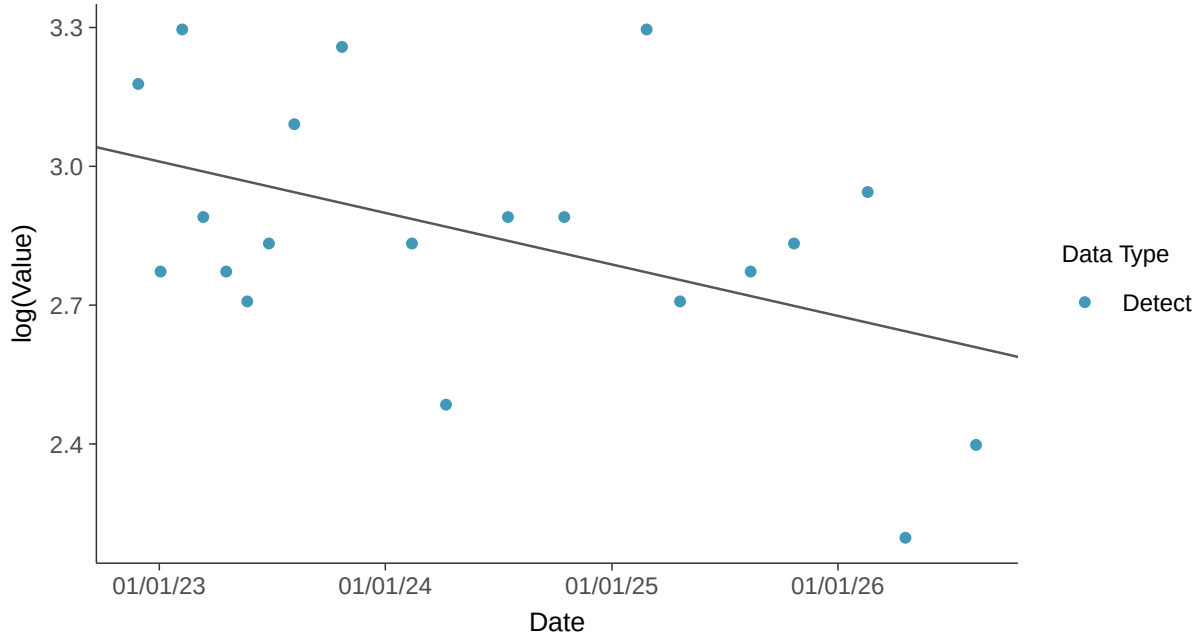
Gamma Q-Q plot

Chloride (as Cl), MW-12 (mg/L)



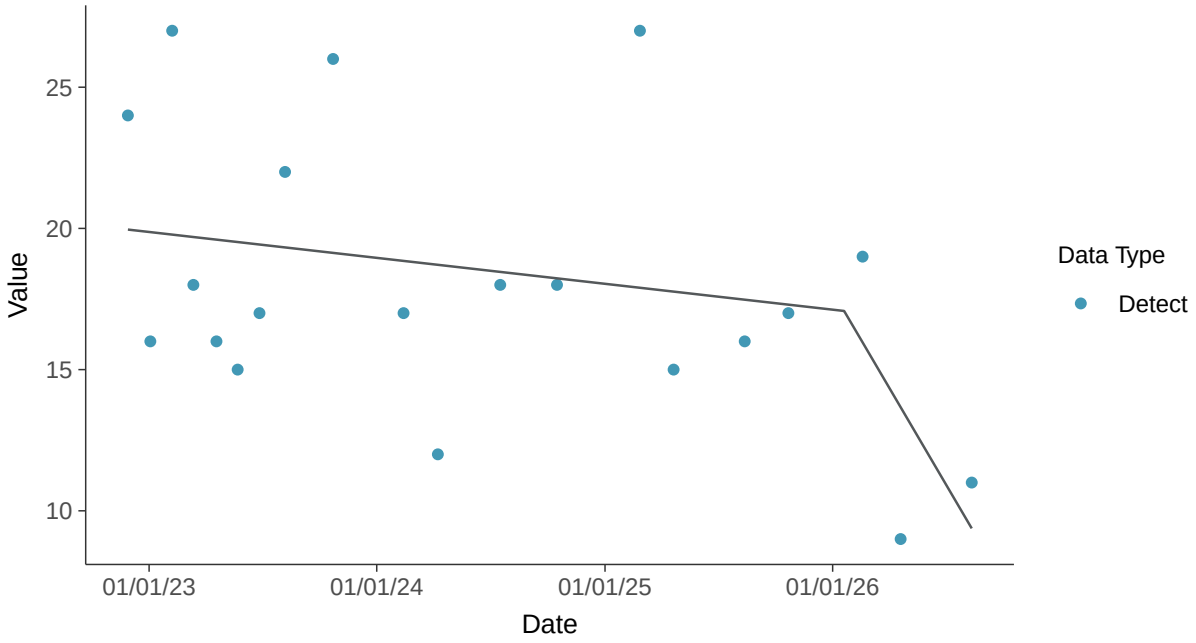
Trend Regression: Lognormal MLE

Chloride (as Cl), MW-12 (mg/L)



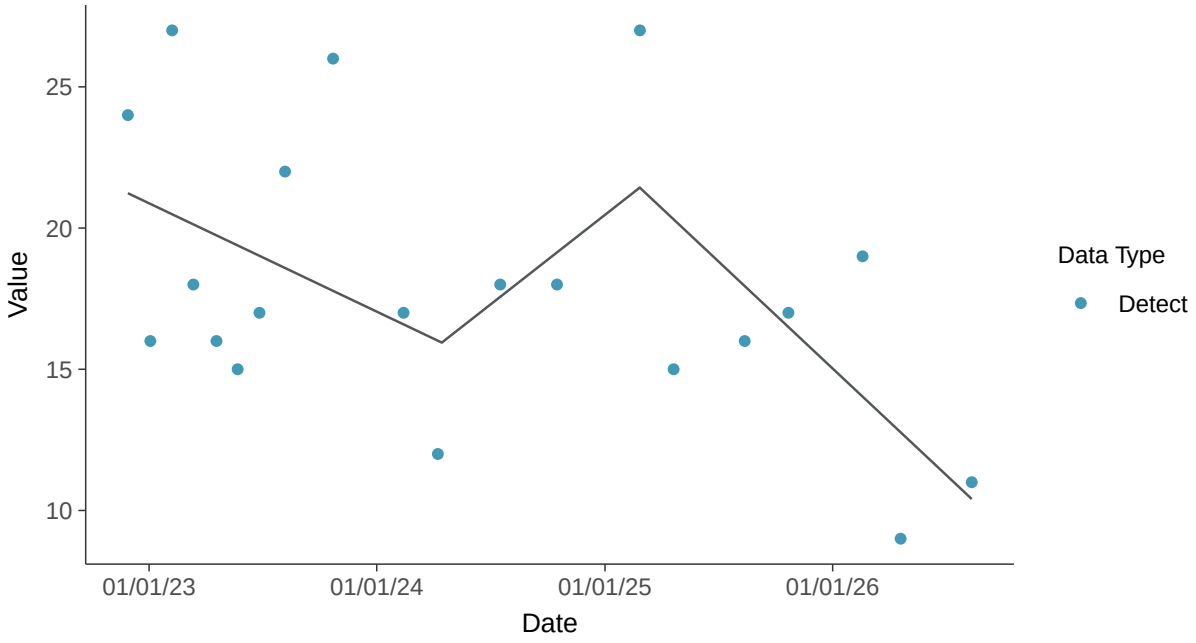
Trend Regression: Piecewise Linear-Linear

Chloride (as Cl), MW-12 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Chloride (as Cl), MW-12 (mg/L)

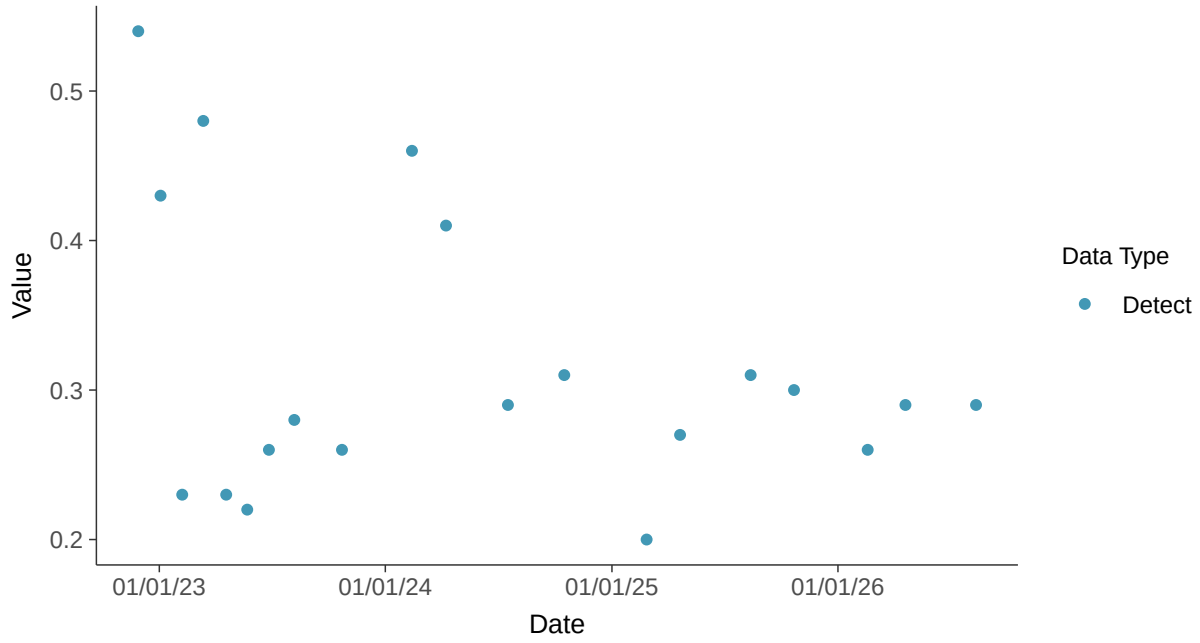


Appendix III: Fluoride, MW-12

ID: 22_2_3_112

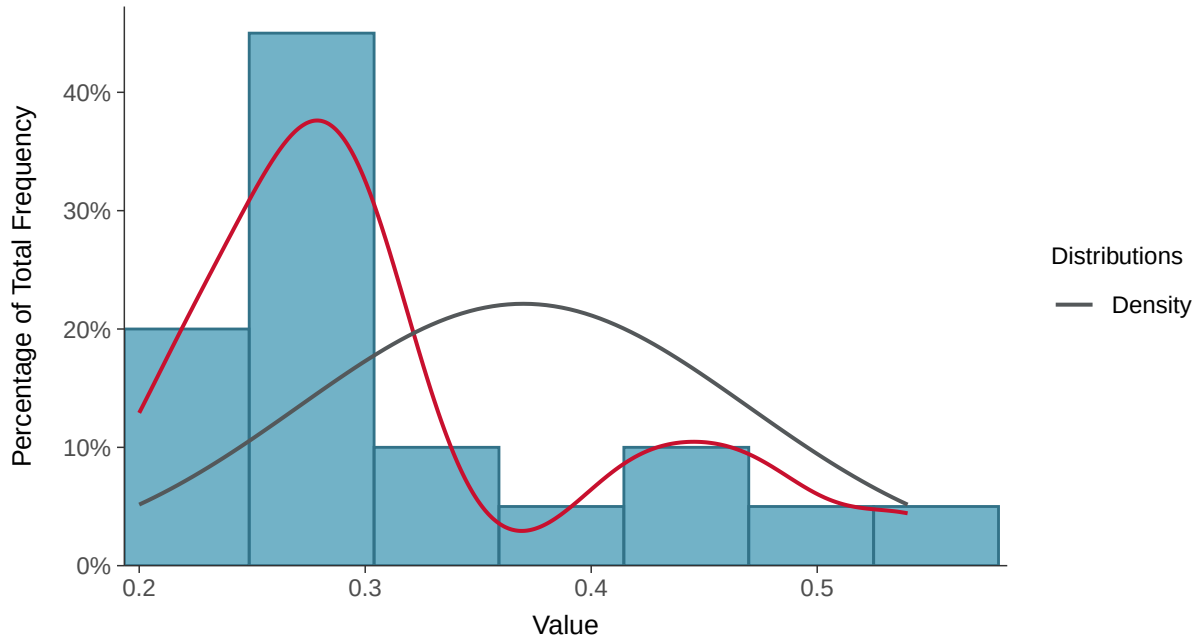
Scatter Plot

Fluoride, MW-12 (mg/L)



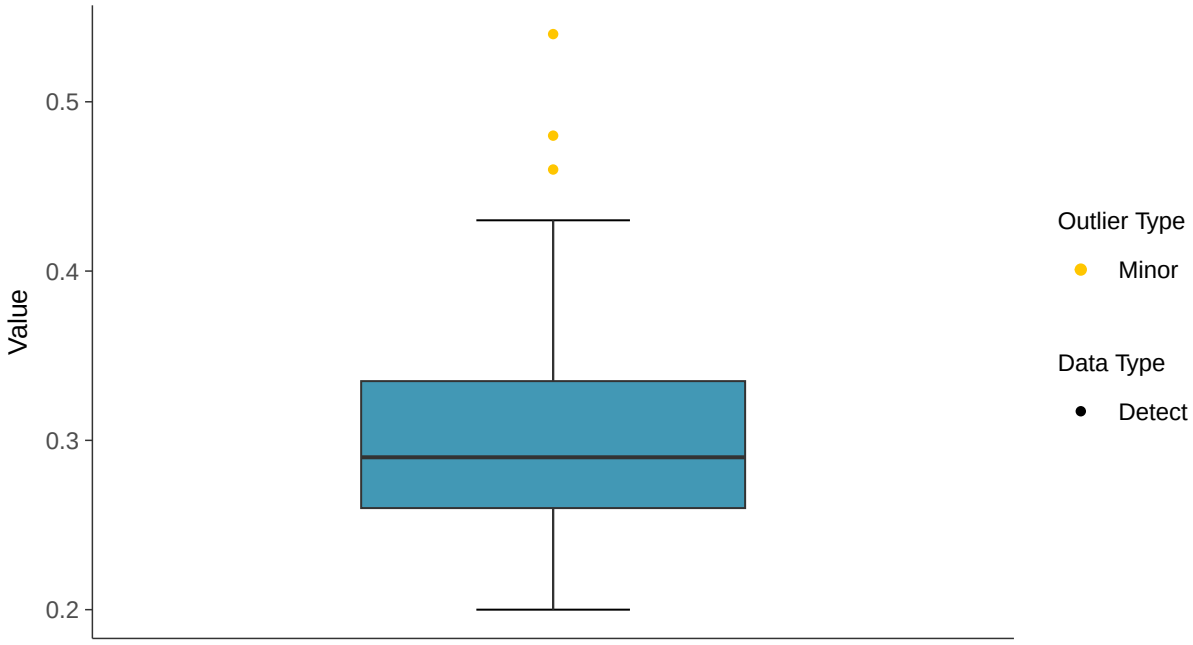
Histogram

Fluoride, MW-12 (mg/L)



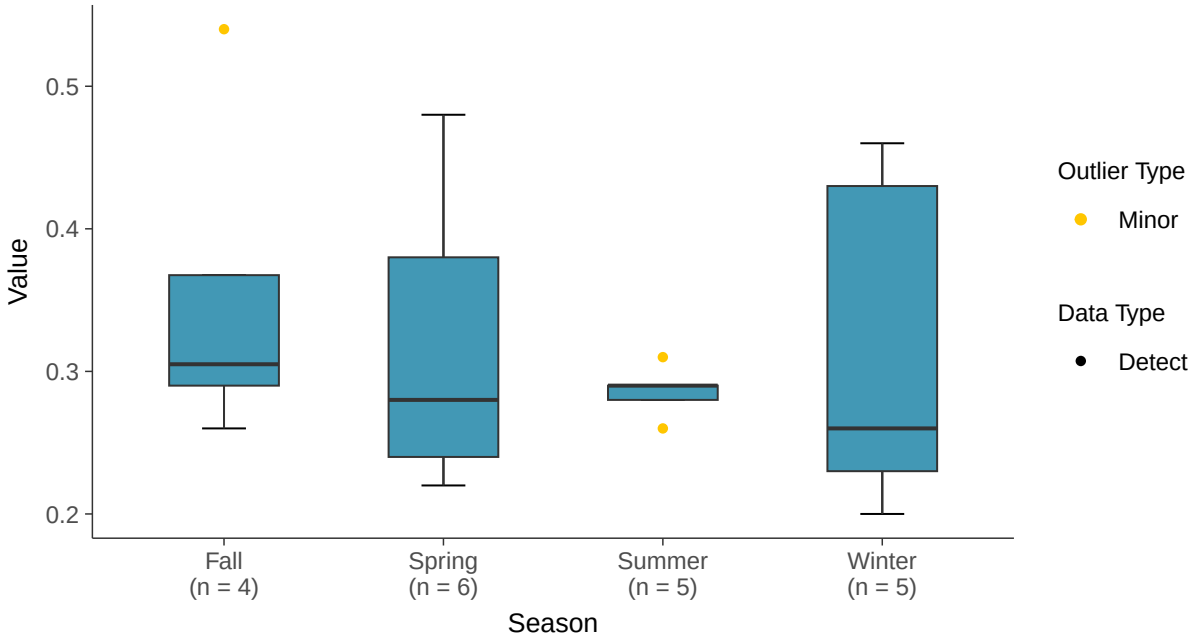
Boxplot

Fluoride, MW-12 (mg/L)



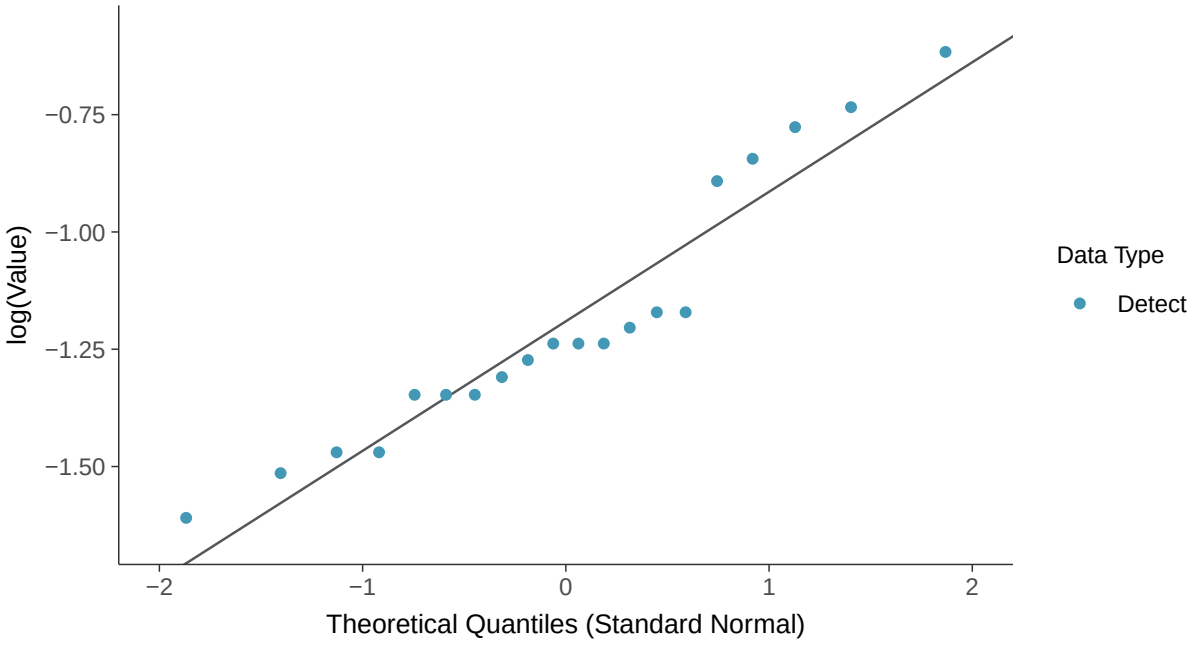
Boxplot by Season

Fluoride, MW-12 (mg/L)



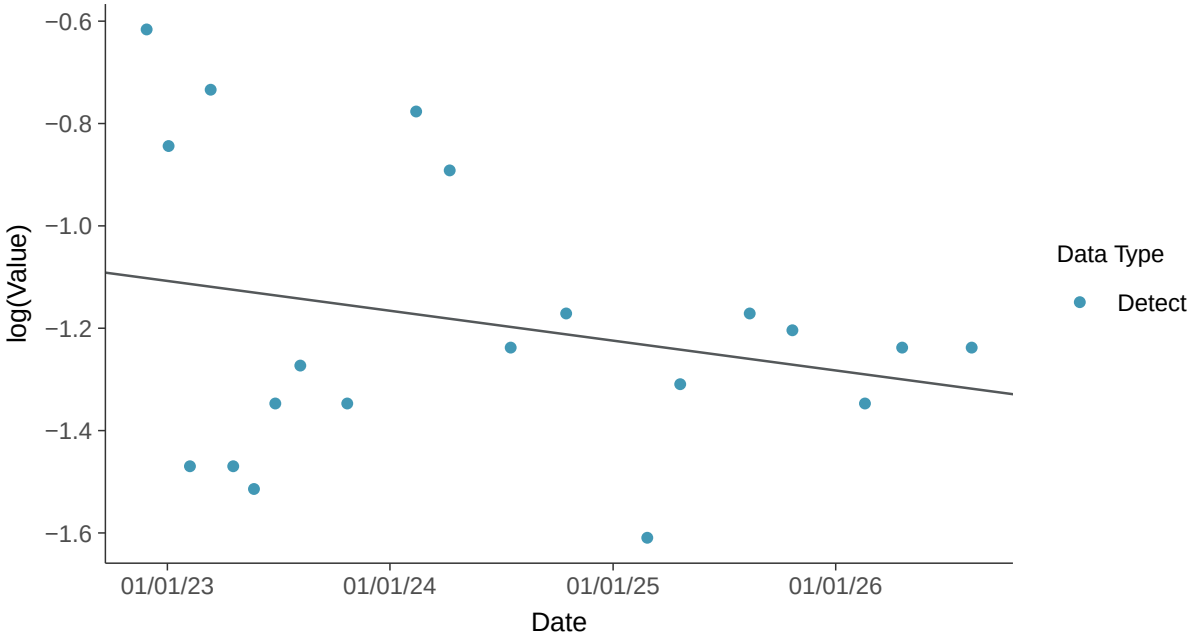
Lognormal Q-Q plot

Fluoride, MW-12 (mg/L)



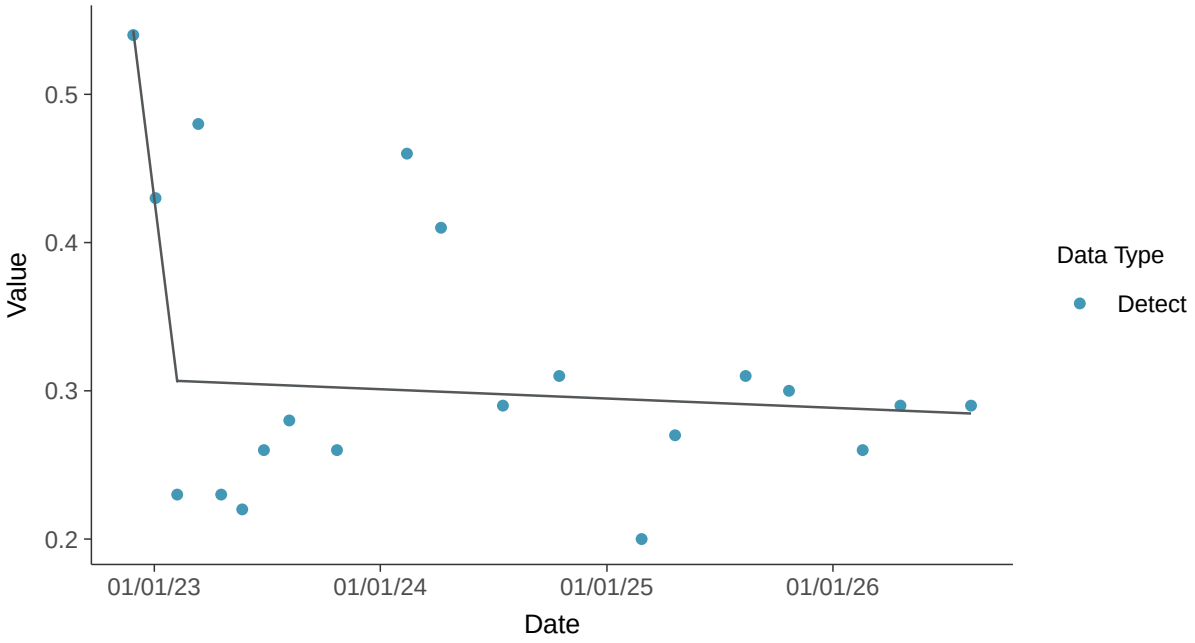
Trend Regression: Lognormal MLE

Fluoride, MW-12 (mg/L)



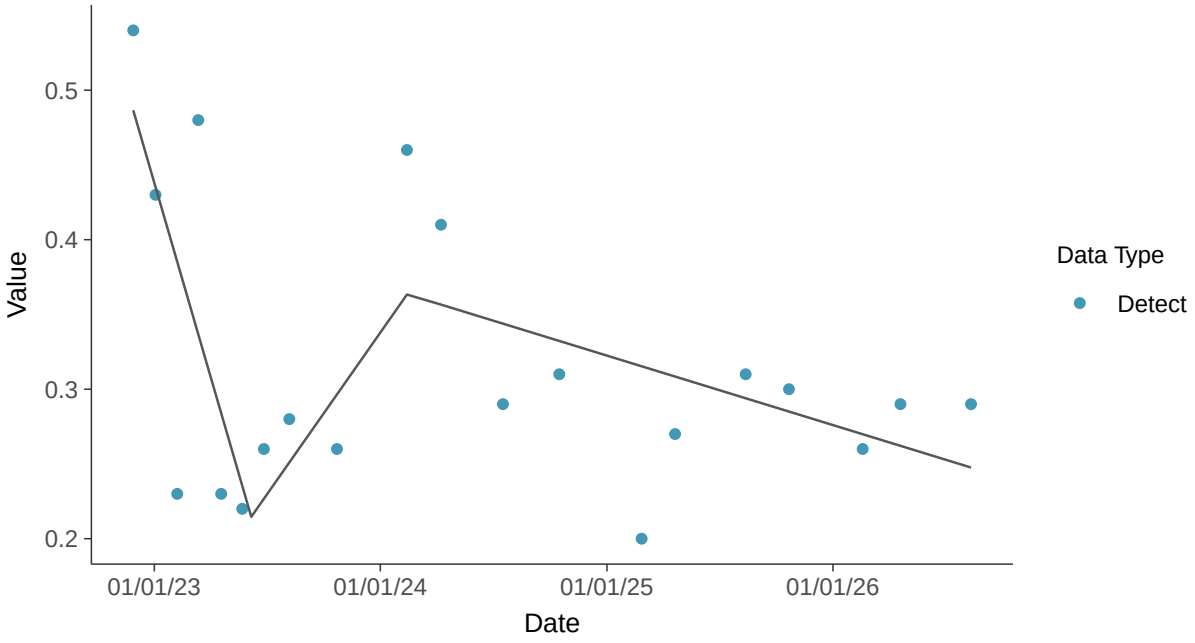
Trend Regression: Piecewise Linear-Linear

Fluoride, MW-12 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Fluoride, MW-12 (mg/L)

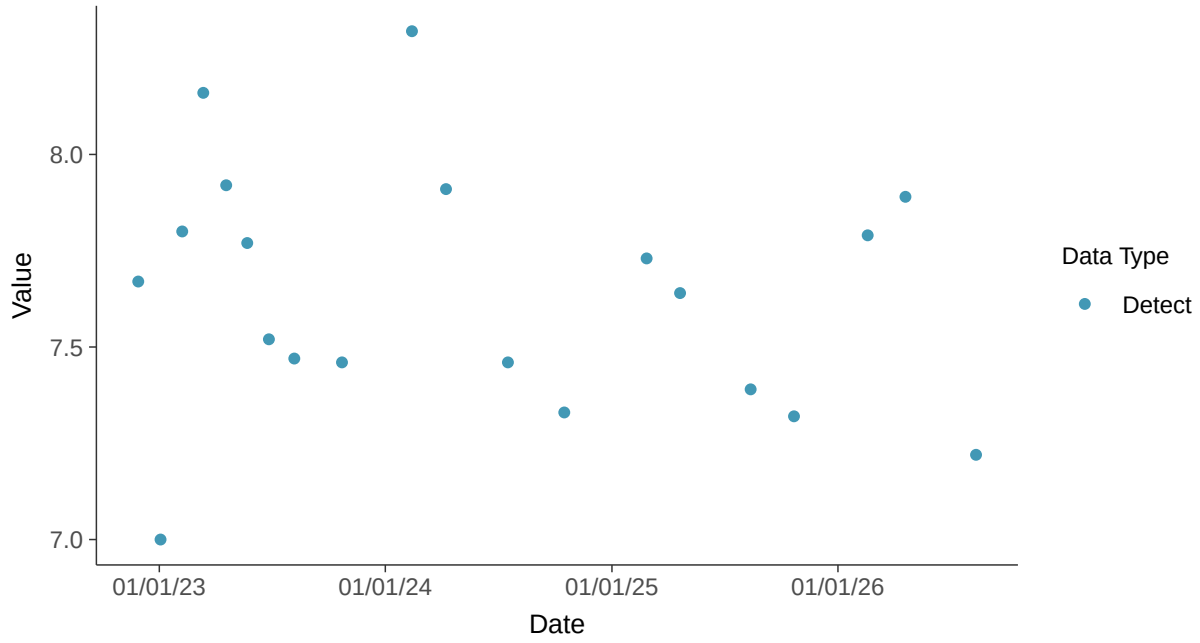


Appendix III: pH (field), MW-12

ID: 22_2_3_120

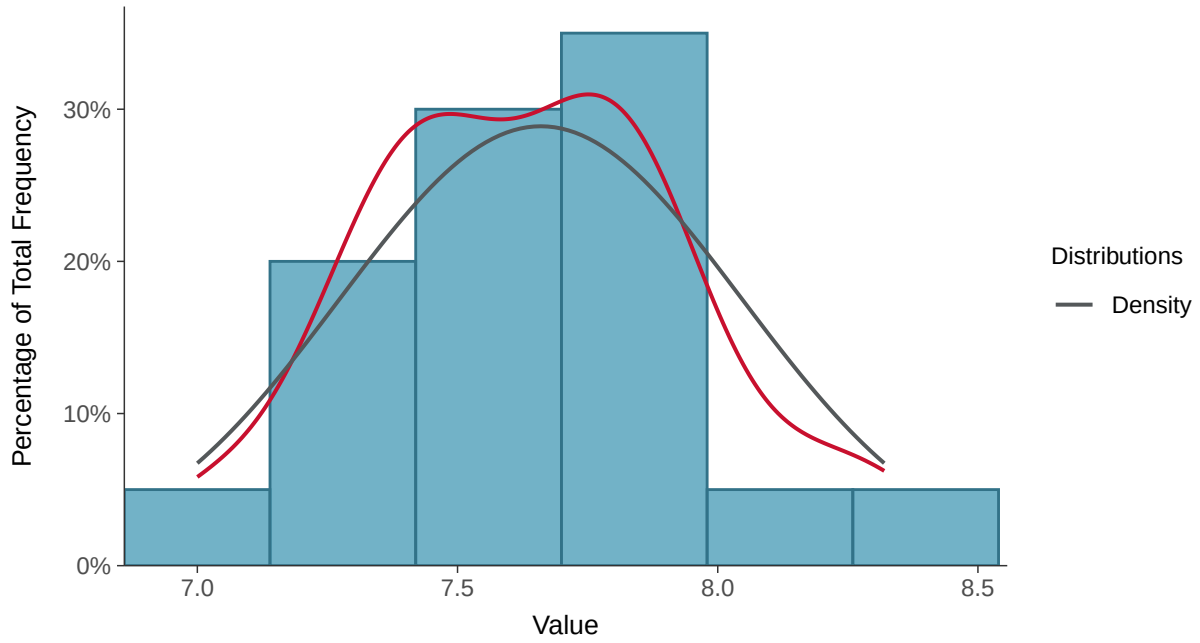
Scatter Plot

pH (field), MW-12 (su)



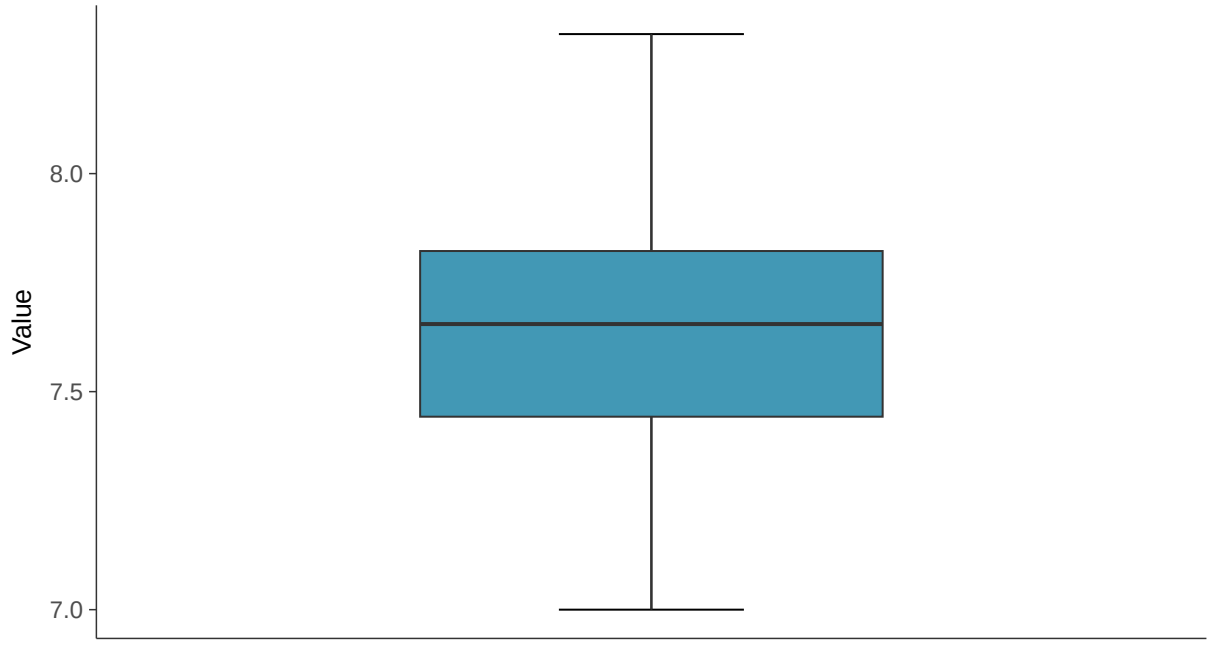
Histogram

pH (field), MW-12 (su)



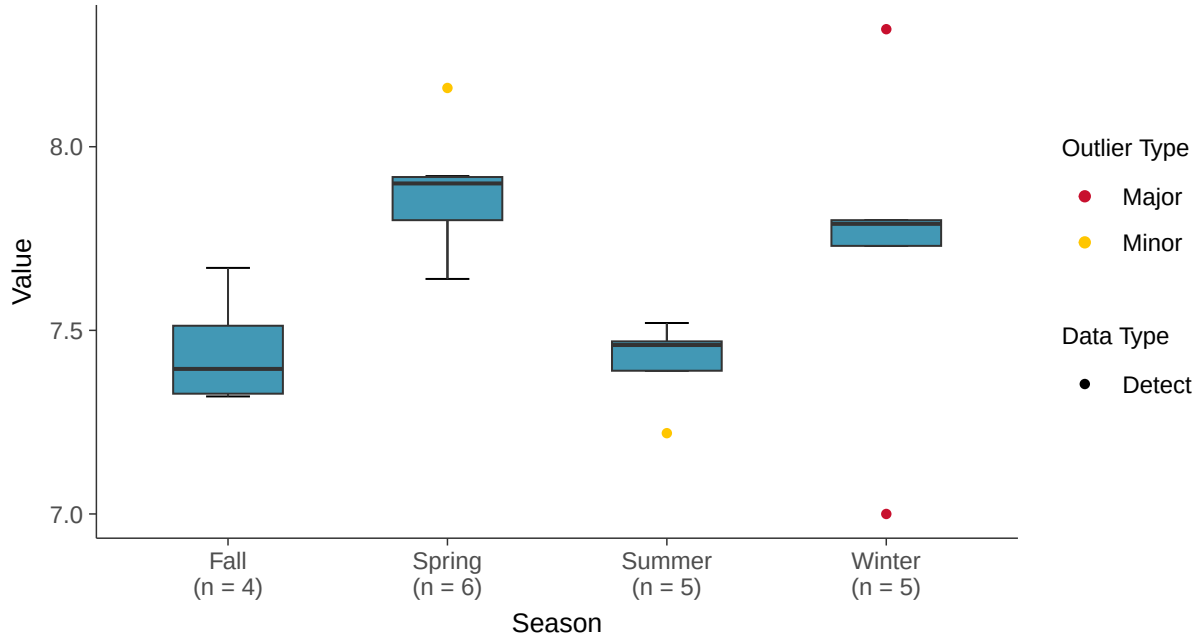
Boxplot

pH (field), MW-12 (su)



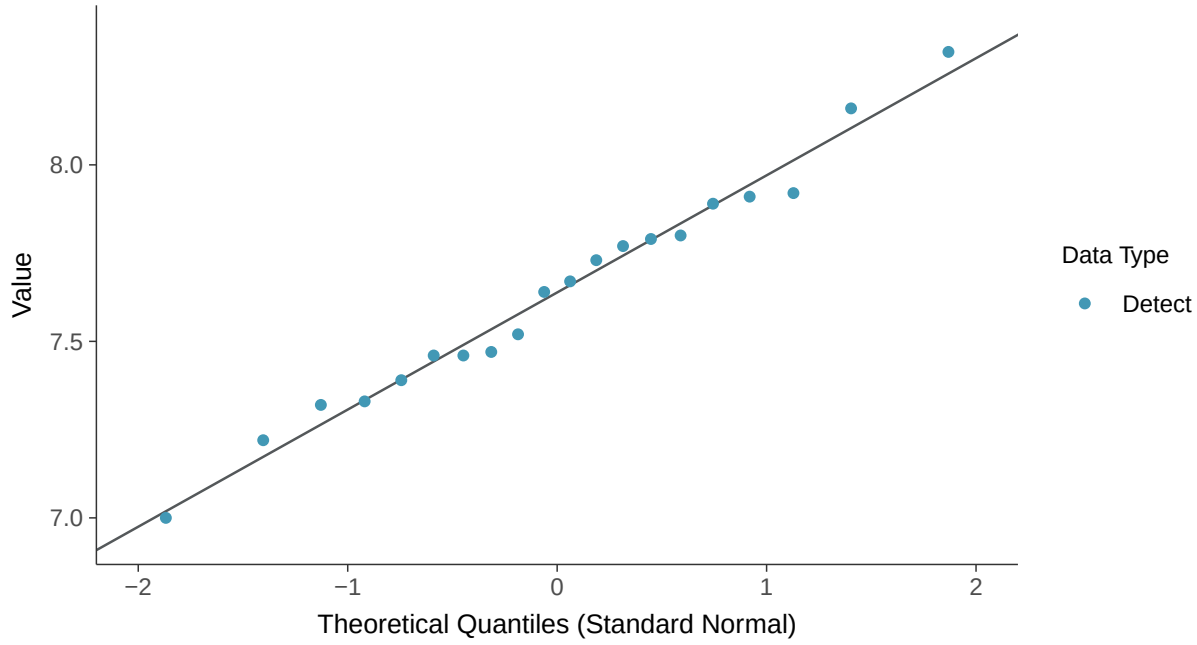
Boxplot by Season

pH (field), MW-12 (su)



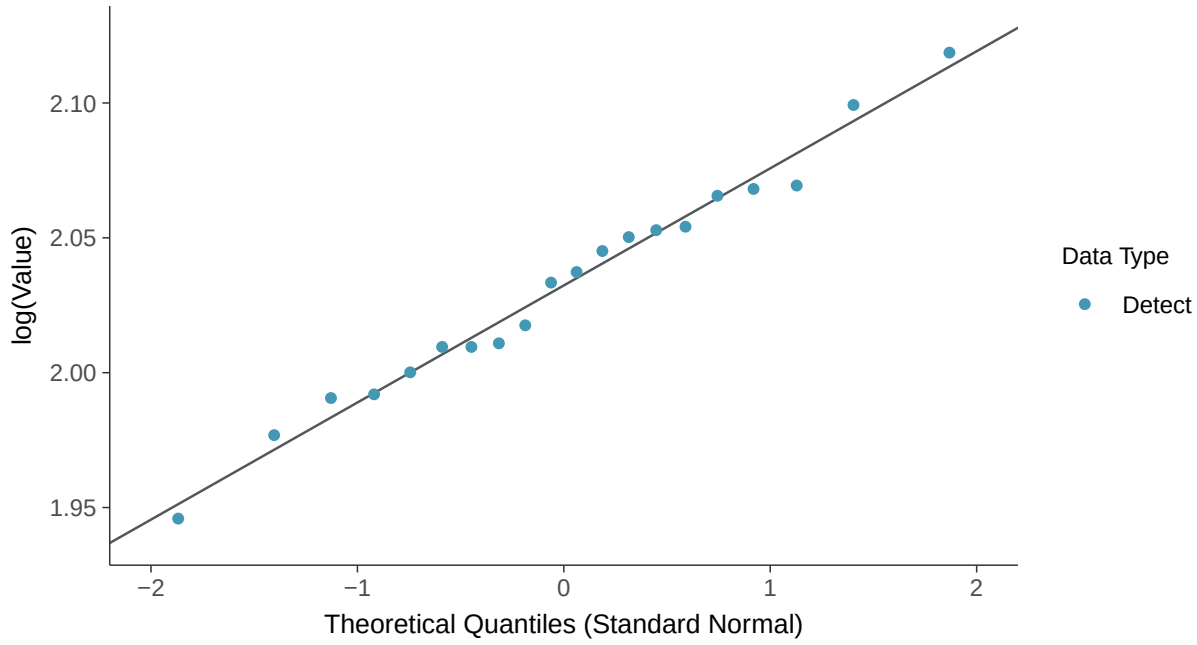
Normal Q-Q plot

pH (field), MW-12 (su)



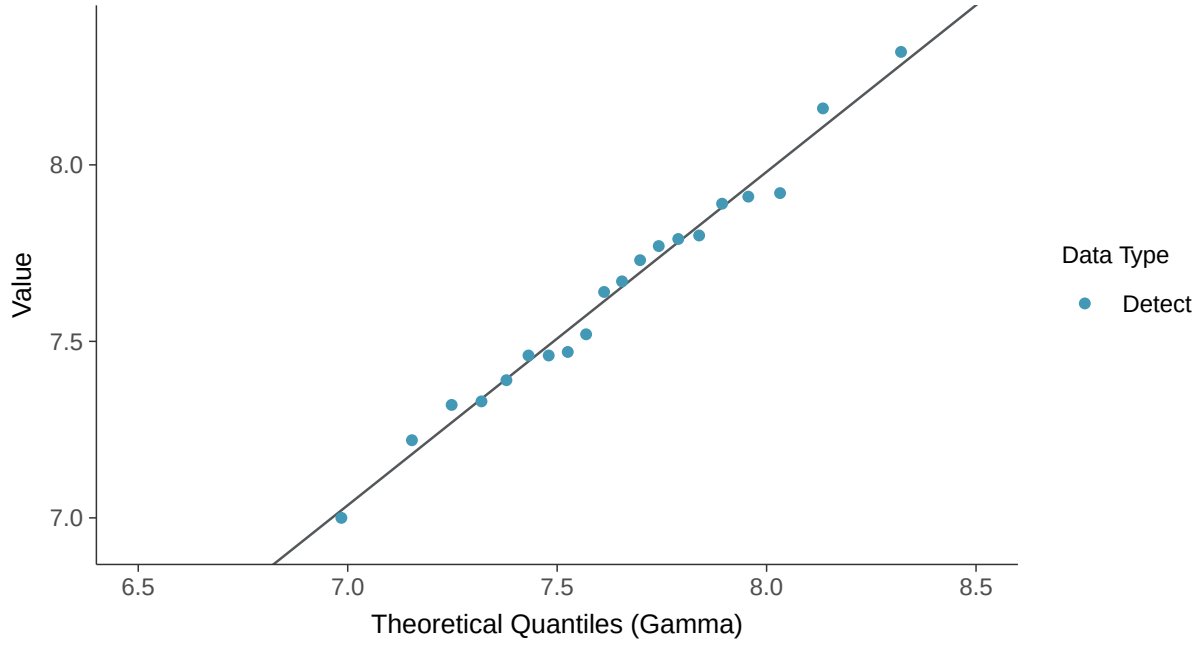
Lognormal Q-Q plot

pH (field), MW-12 (su)



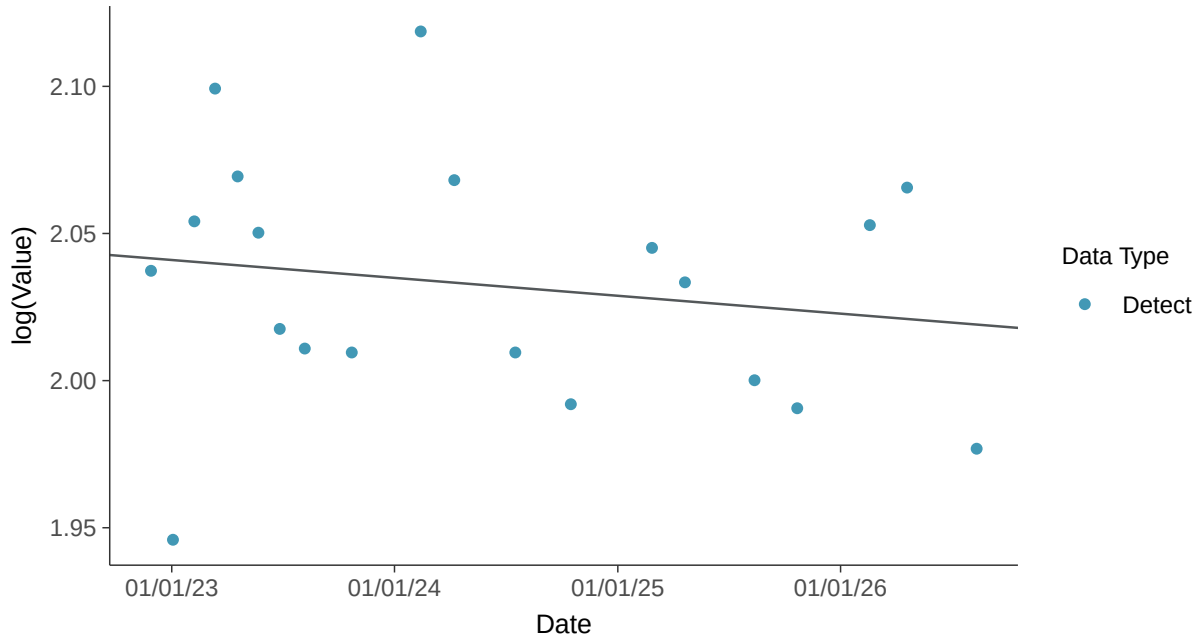
Gamma Q-Q plot

pH (field), MW-12 (su)



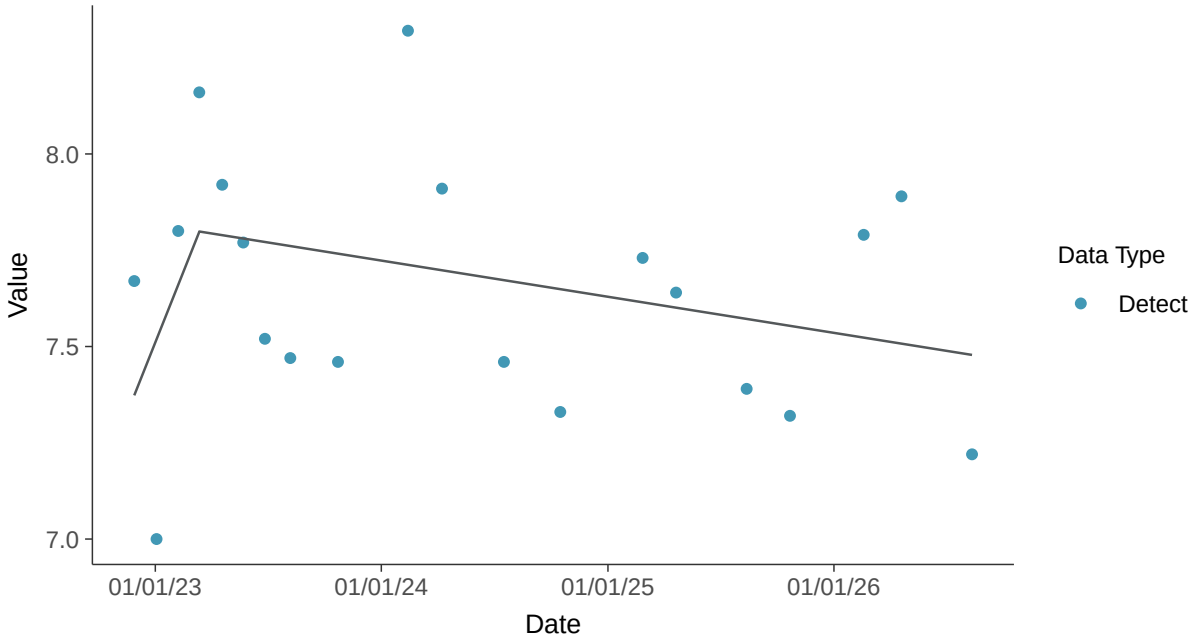
Trend Regression: Lognormal MLE

pH (field), MW-12 (su)



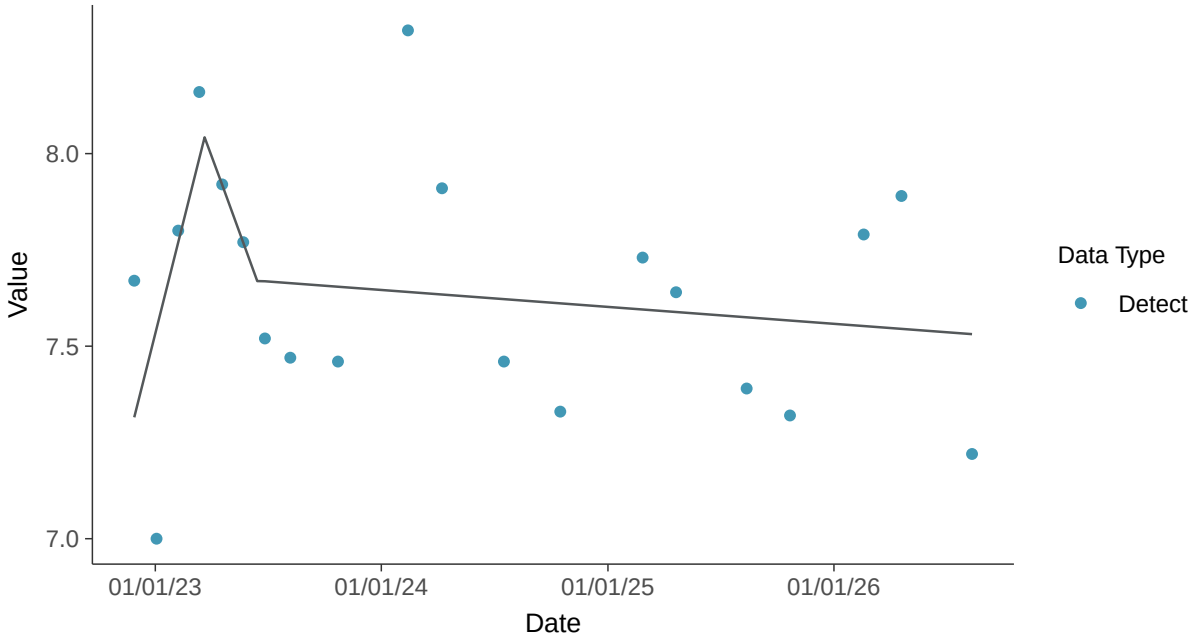
Trend Regression: Piecewise Linear-Linear

pH (field), MW-12 (su)



Trend Regression: Piecewise Linear-Linear-Linear

pH (field), MW-12 (su)

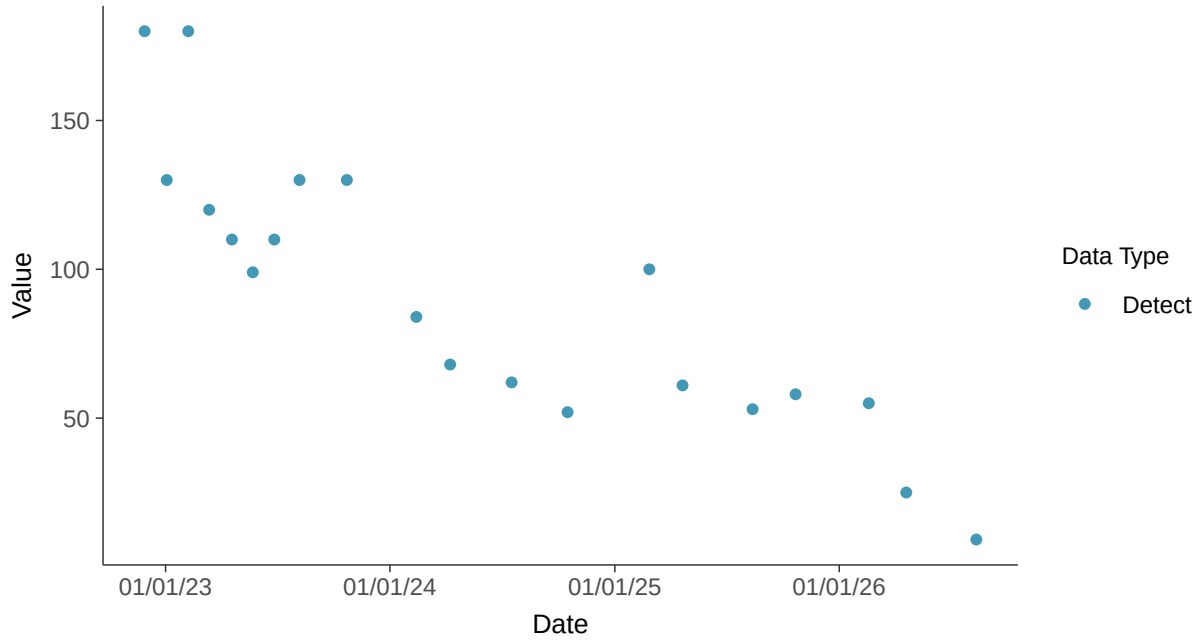


Appendix III: Sulfate (as SO4), MW-12

ID: 22_2_3_124

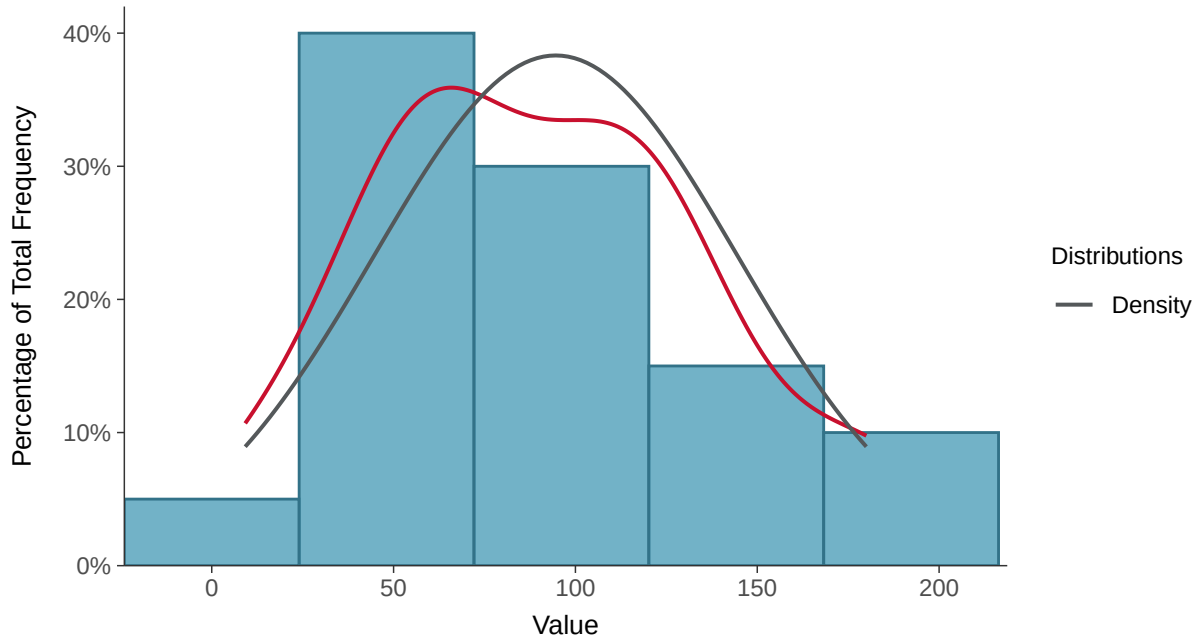
Scatter Plot

Sulfate (as SO4), MW-12 (mg/L)



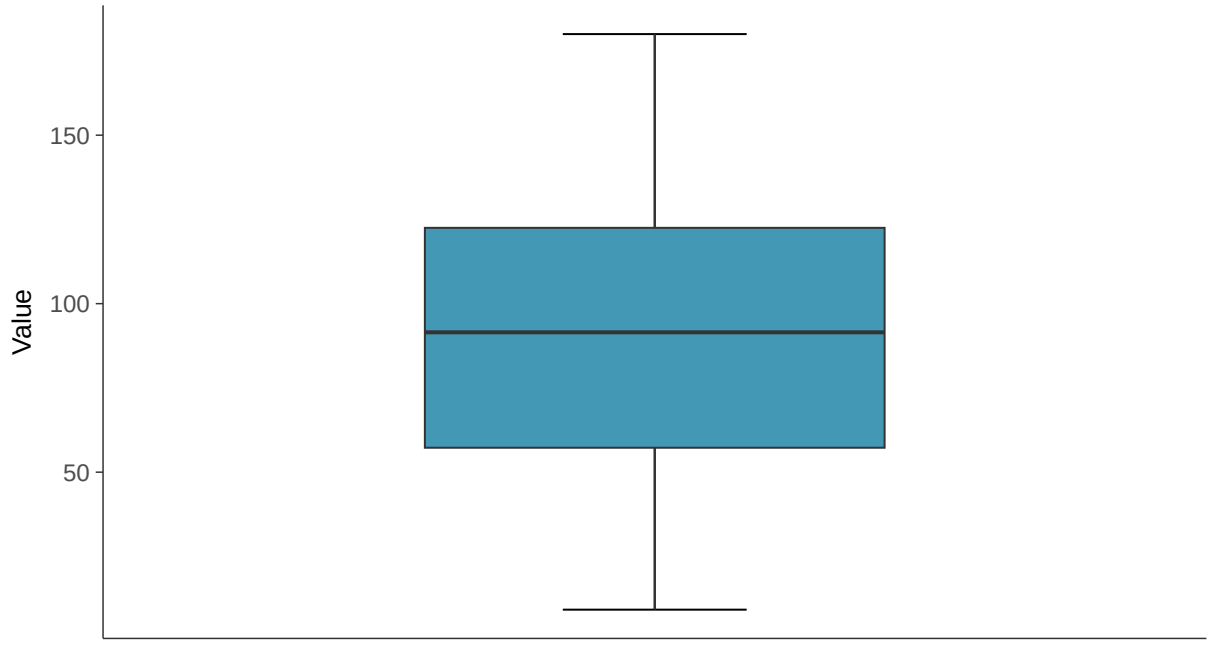
Histogram

Sulfate (as SO4), MW-12 (mg/L)



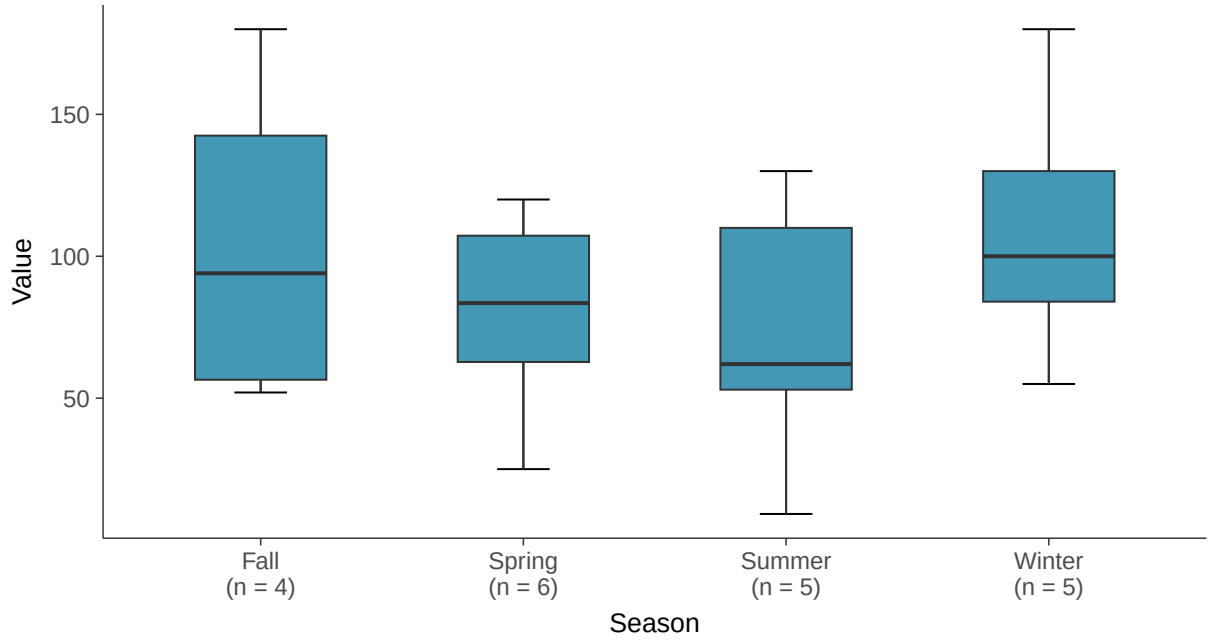
Boxplot

Sulfate (as SO4), MW-12 (mg/L)



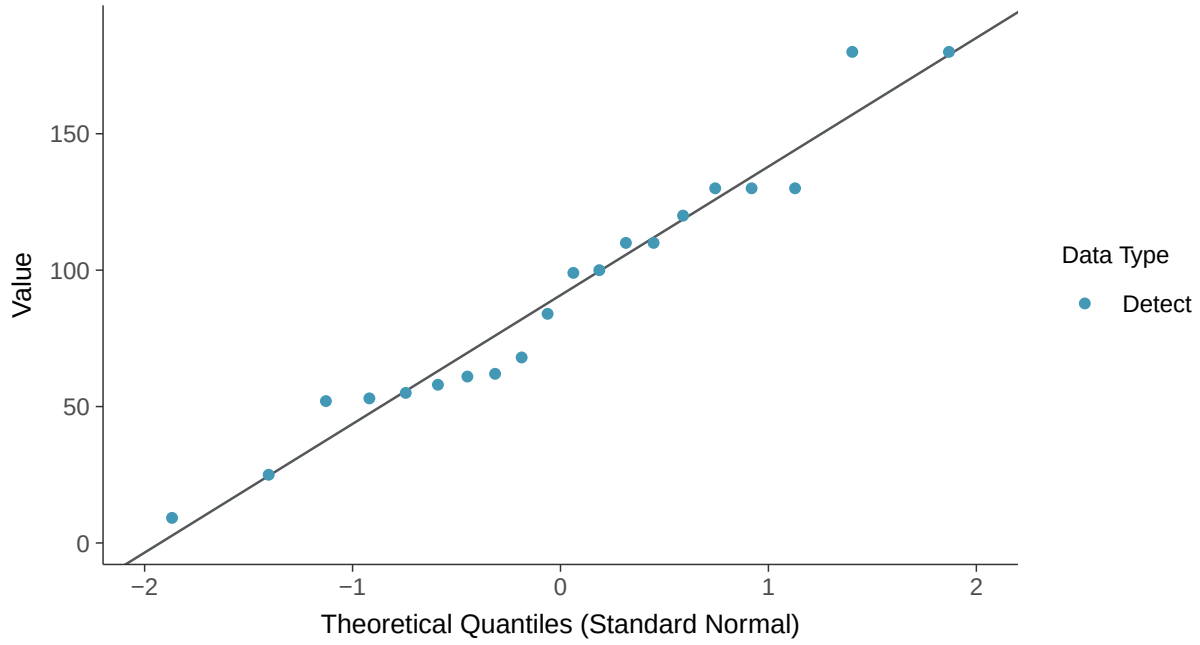
Boxplot by Season

Sulfate (as SO4), MW-12 (mg/L)



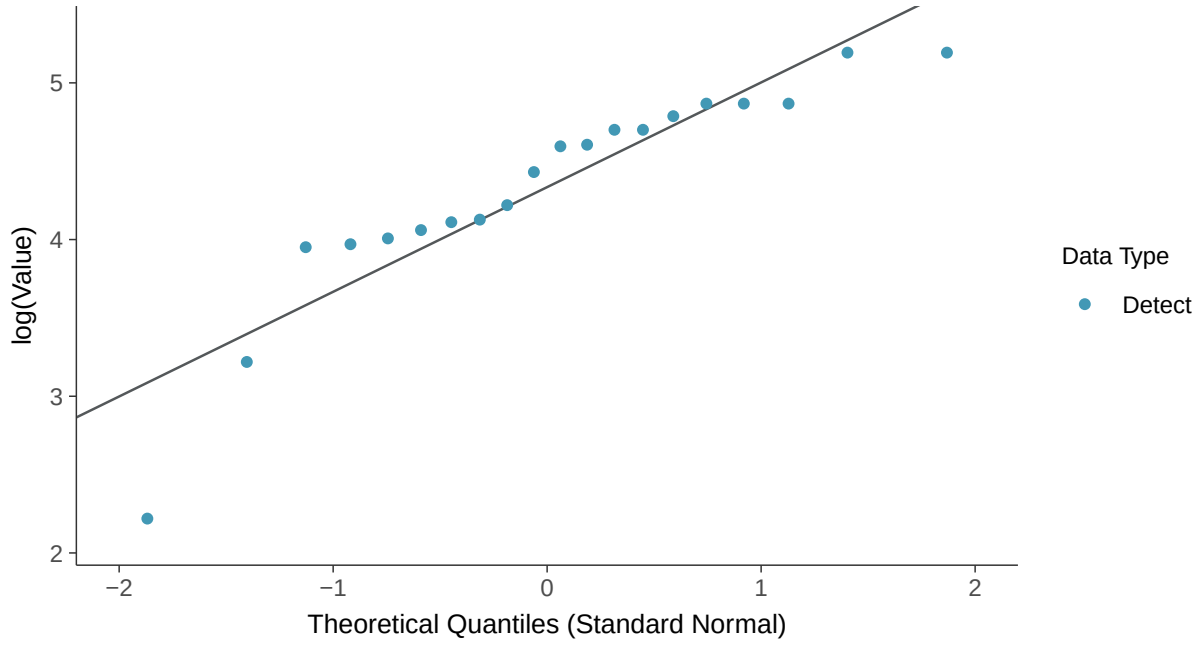
Normal Q-Q plot

Sulfate (as SO4), MW-12 (mg/L)



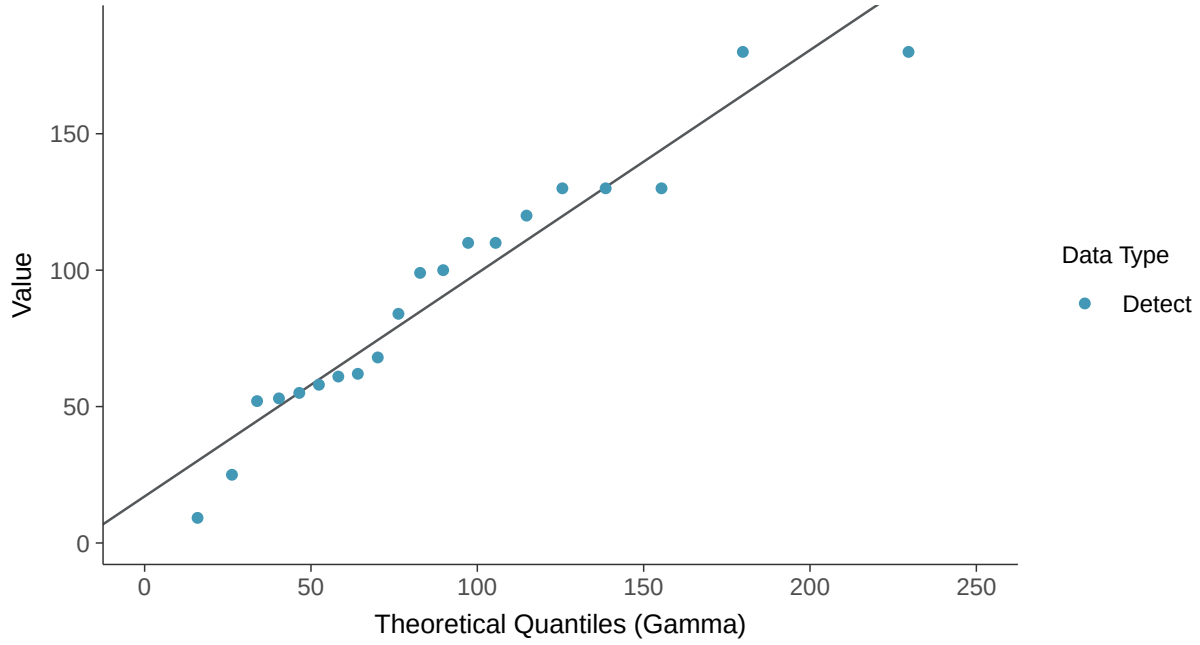
Lognormal Q-Q plot

Sulfate (as SO4), MW-12 (mg/L)



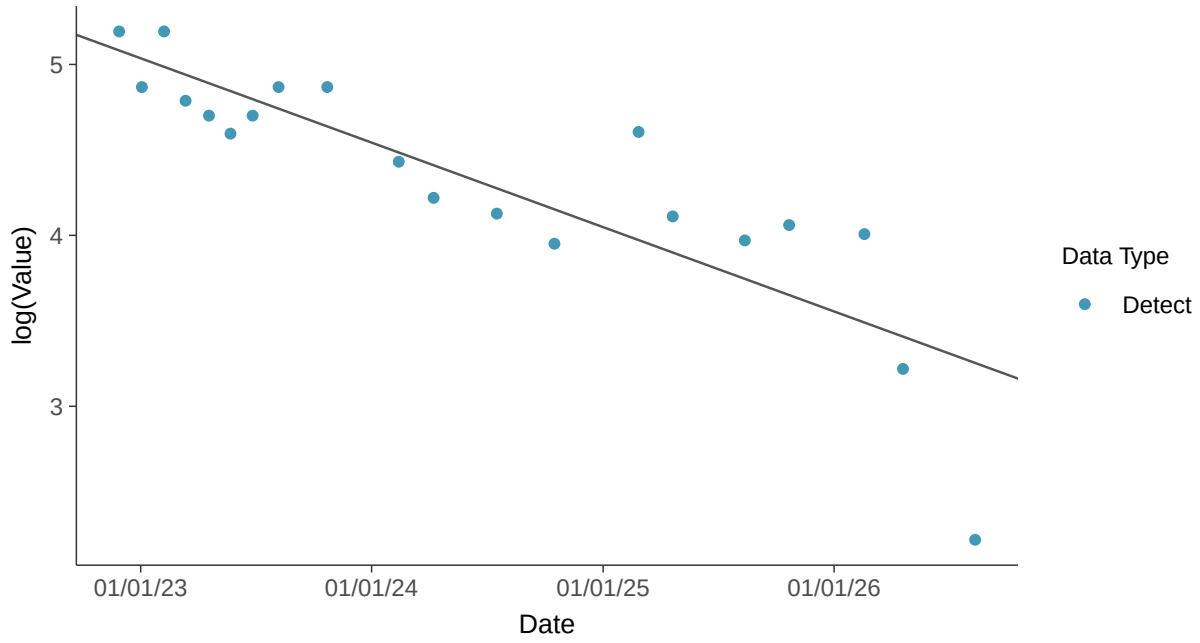
Gamma Q-Q plot

Sulfate (as SO4), MW-12 (mg/L)



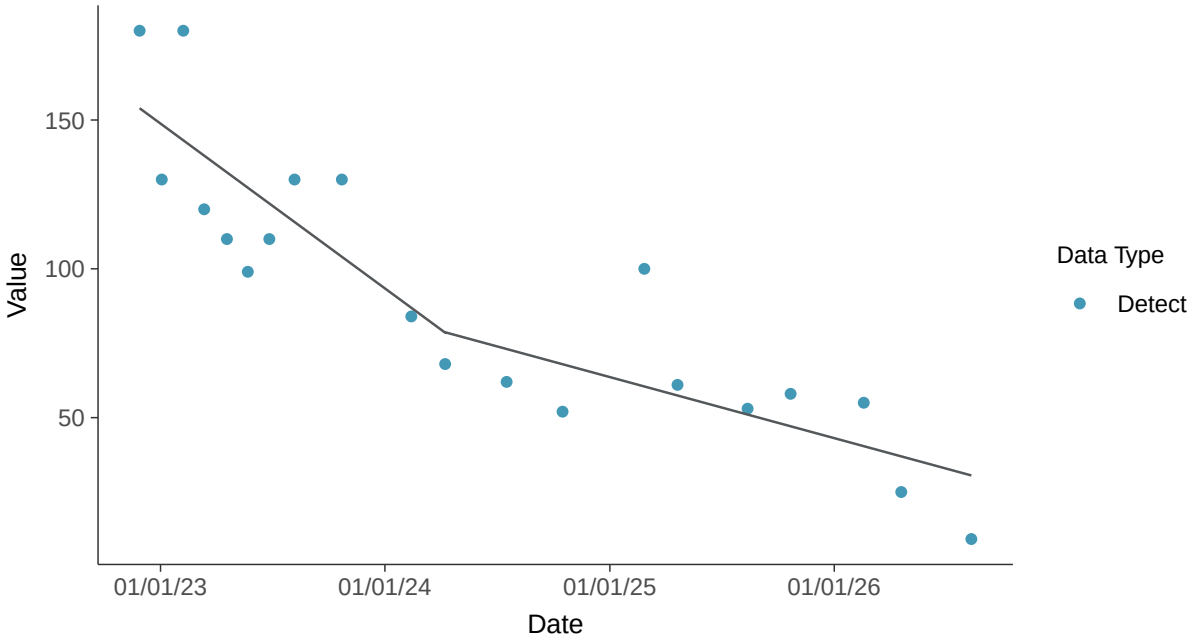
Trend Regression: Lognormal MLE

Sulfate (as SO4), MW-12 (mg/L)



Trend Regression: Piecewise Linear-Linear

Sulfate (as SO4), MW-12 (mg/L)

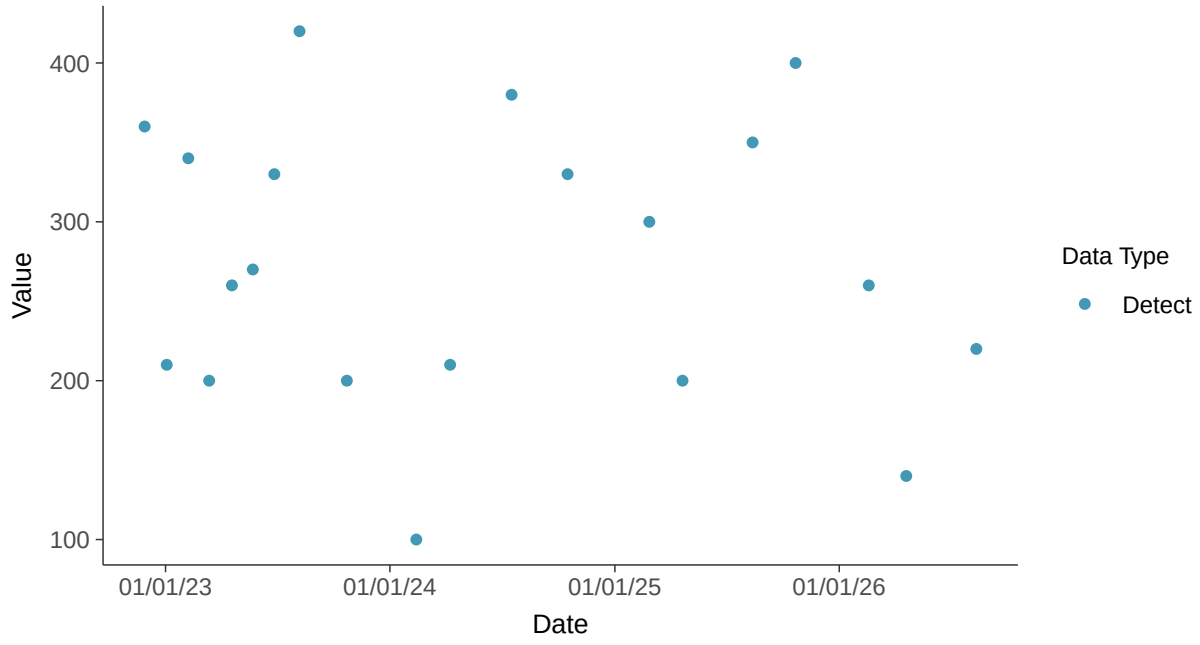


Appendix III: Total Dissolved Solids, MW-12

ID: 22_2_3_126

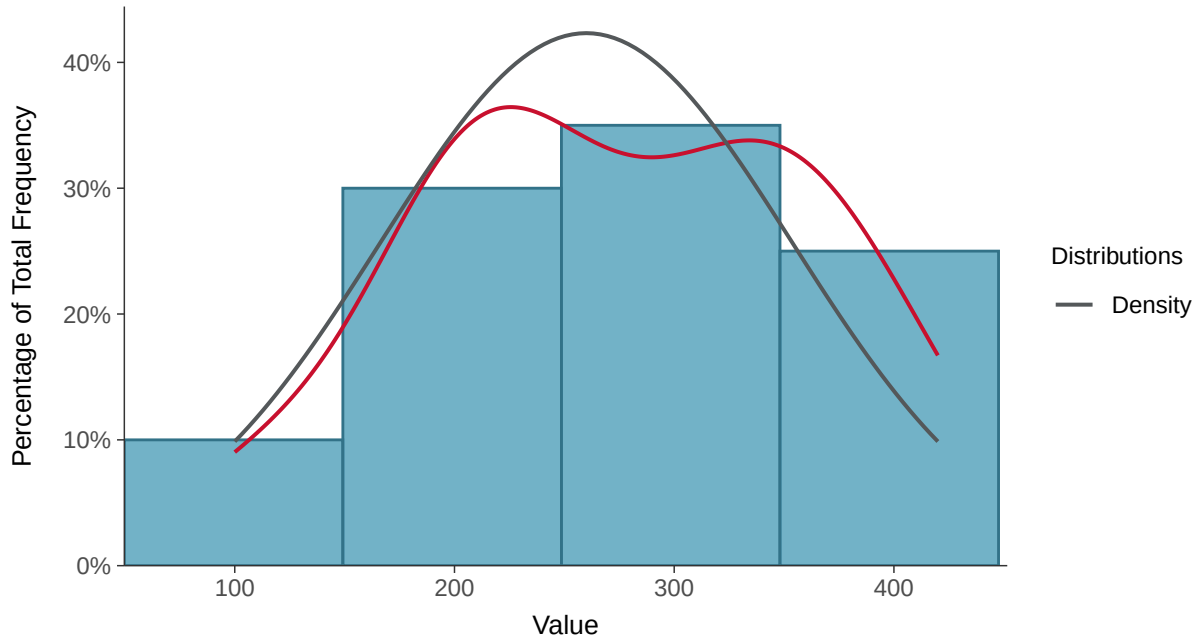
Scatter Plot

Total Dissolved Solids, MW-12 (mg/L)



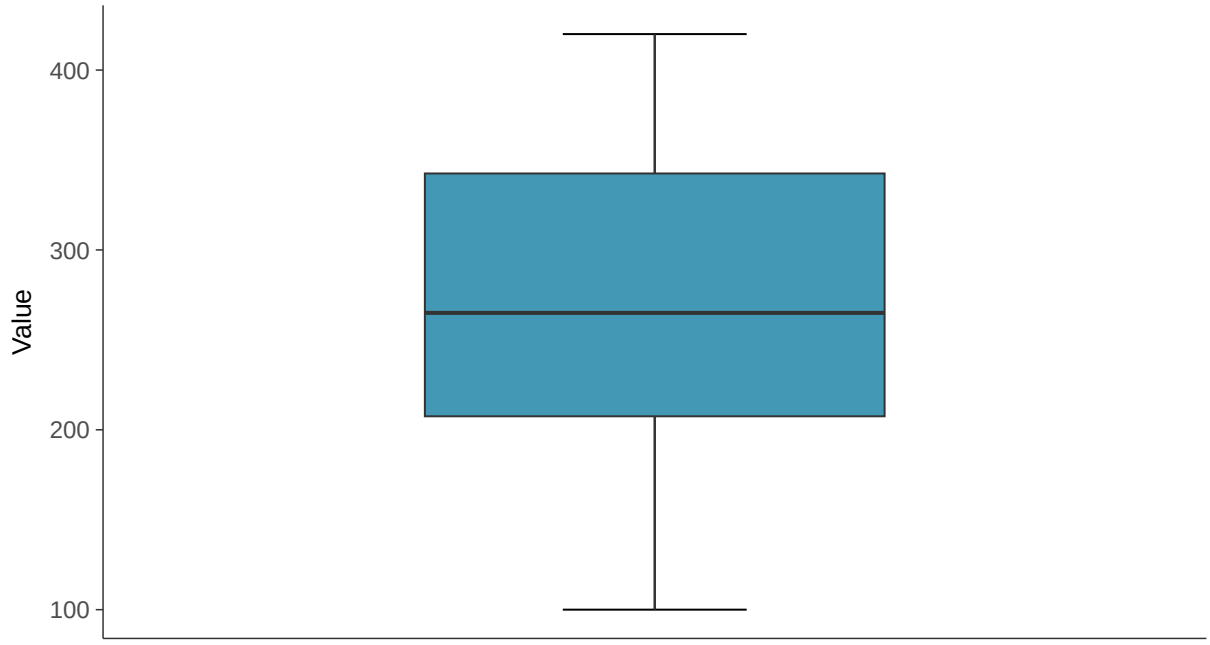
Histogram

Total Dissolved Solids, MW-12 (mg/L)



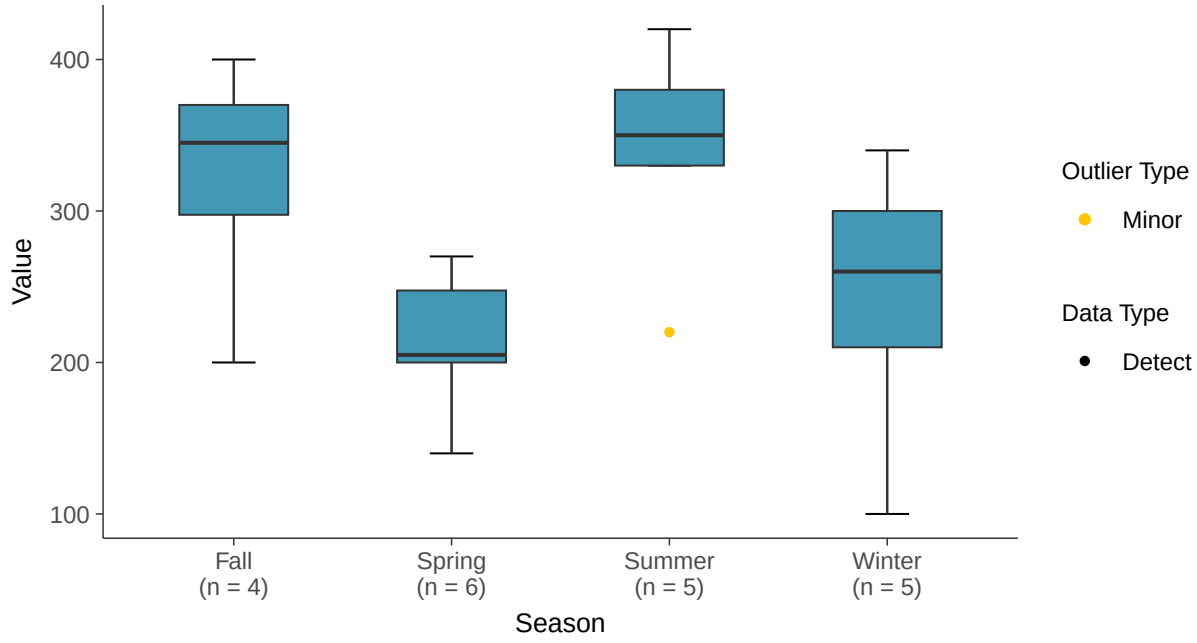
Boxplot

Total Dissolved Solids, MW-12 (mg/L)



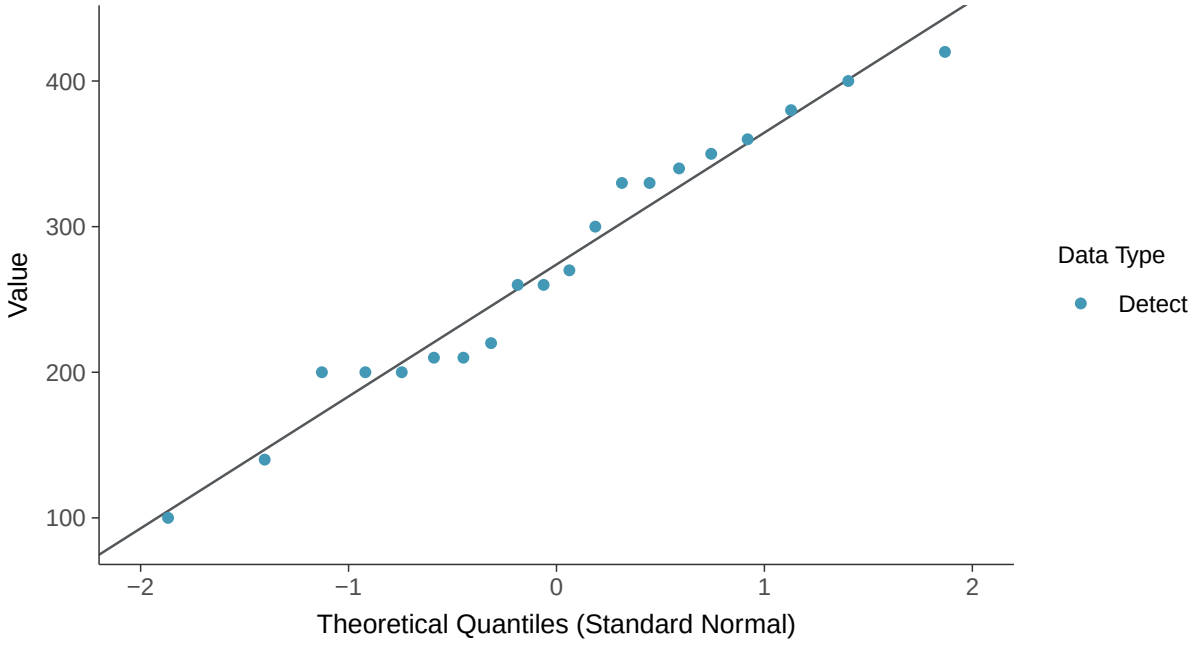
Boxplot by Season

Total Dissolved Solids, MW-12 (mg/L)



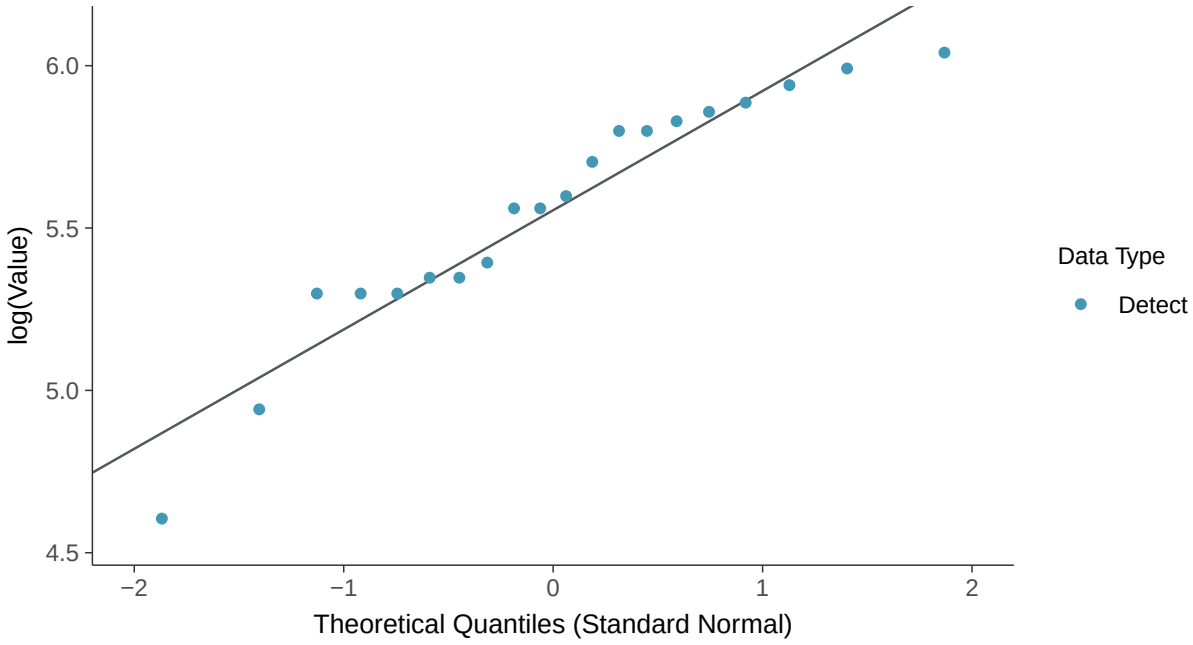
Normal Q-Q plot

Total Dissolved Solids, MW-12 (mg/L)



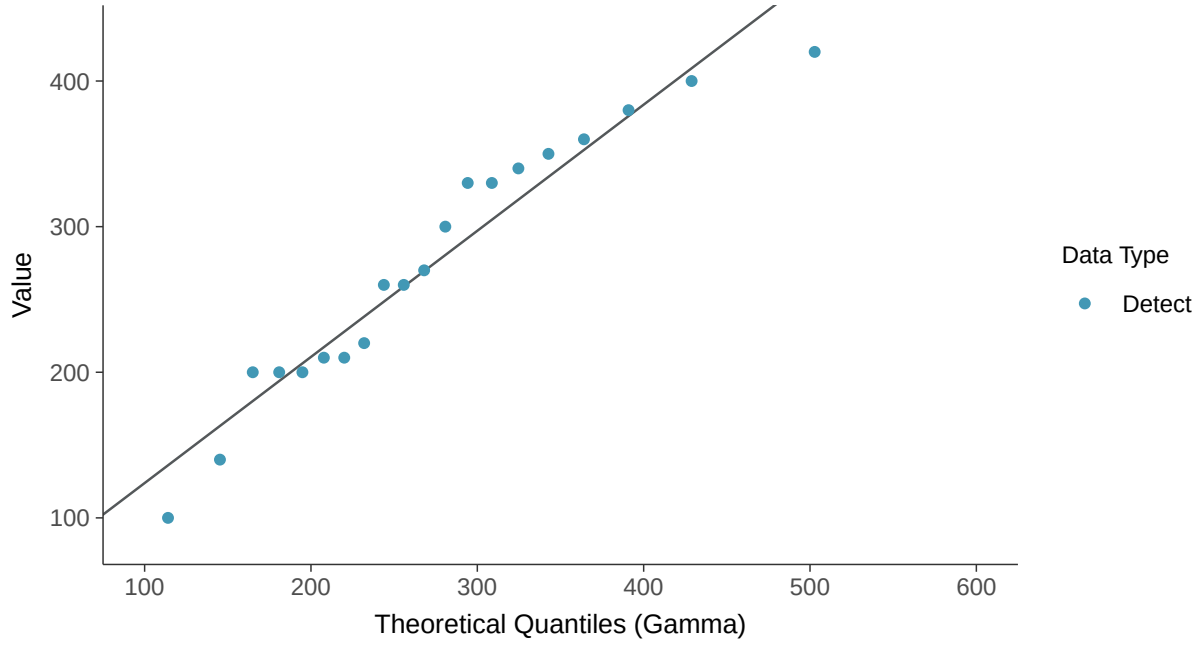
Lognormal Q-Q plot

Total Dissolved Solids, MW-12 (mg/L)



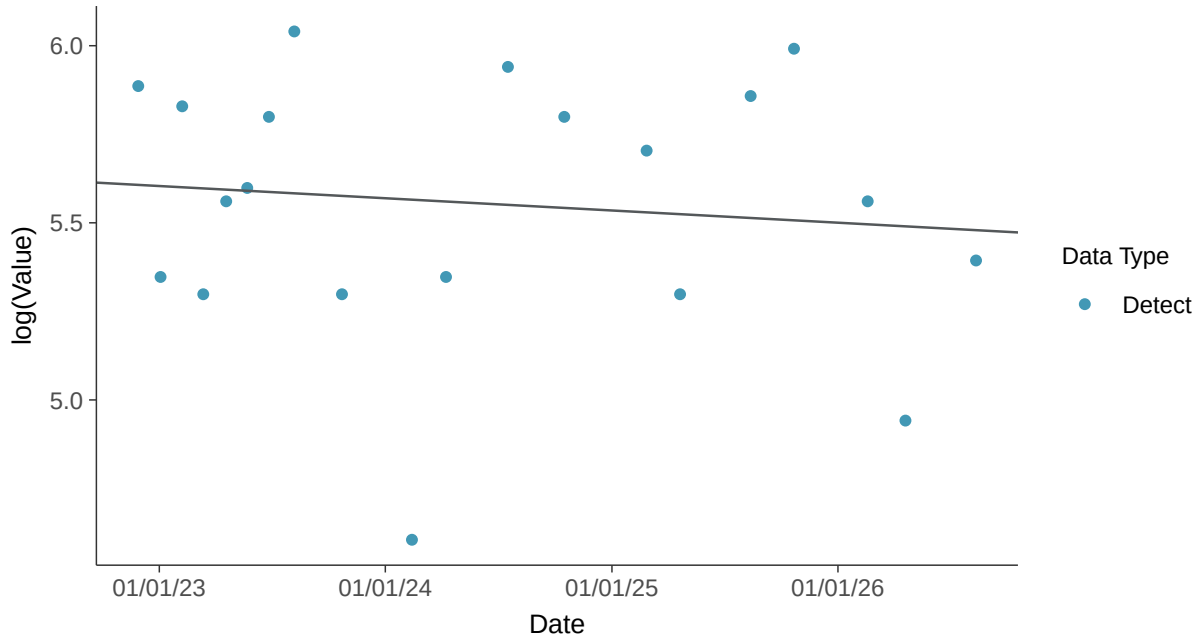
Gamma Q-Q plot

Total Dissolved Solids, MW-12 (mg/L)



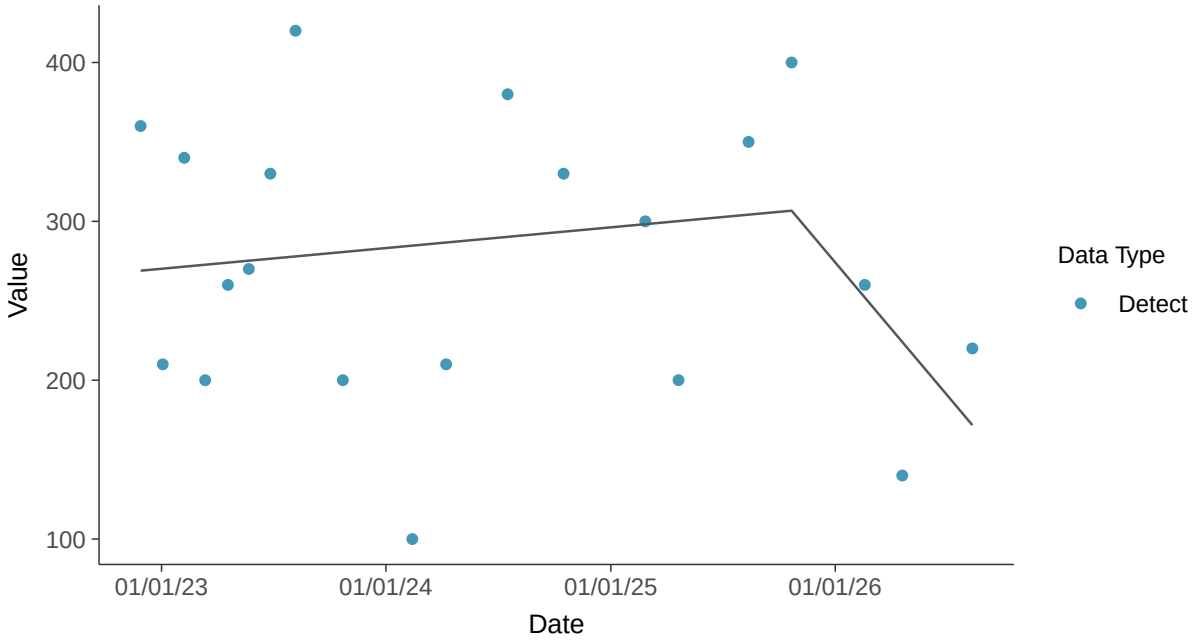
Trend Regression: Lognormal MLE

Total Dissolved Solids, MW-12 (mg/L)



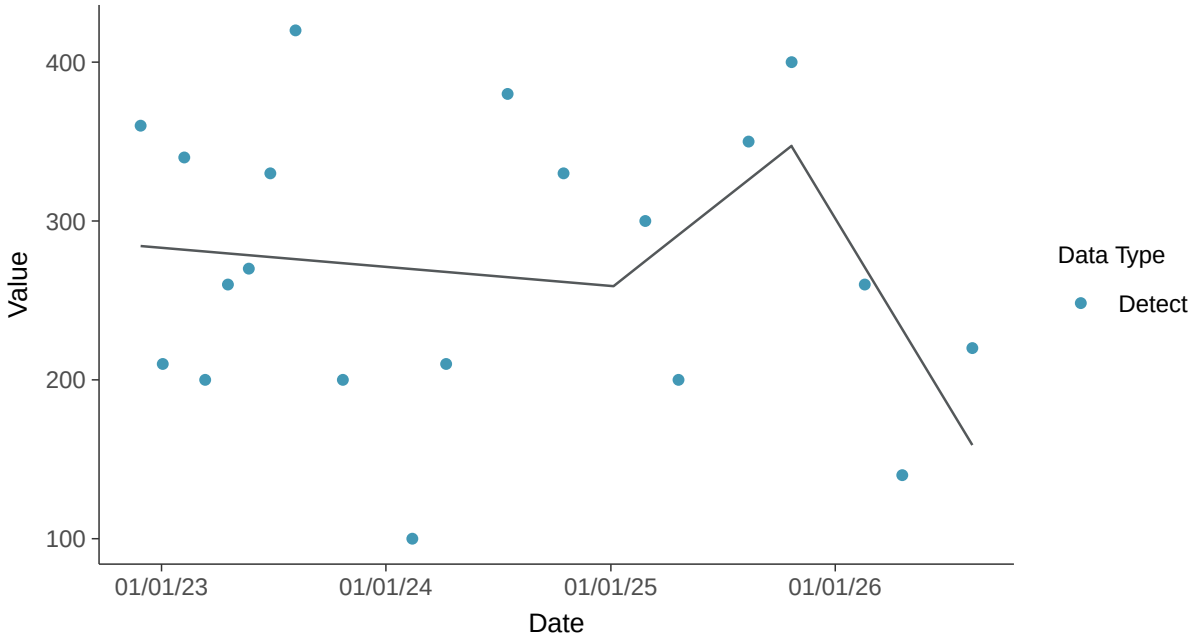
Trend Regression: Piecewise Linear-Linear

Total Dissolved Solids, MW-12 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Total Dissolved Solids, MW-12 (mg/L)

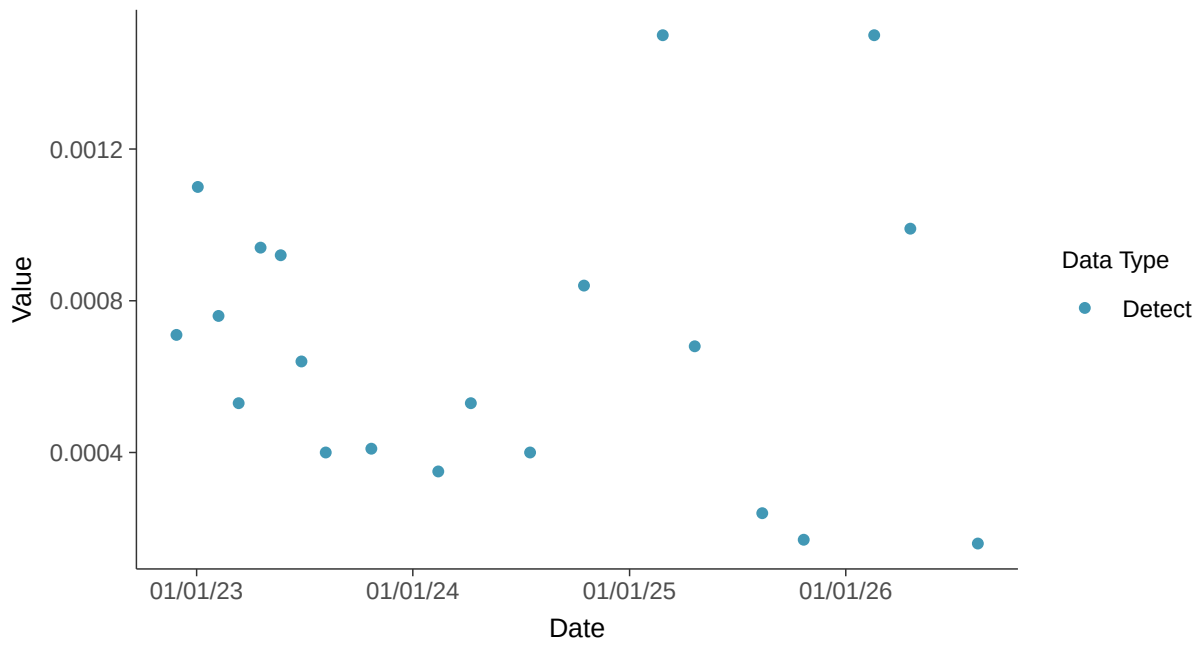


Appendix IV: Antimony, MW-12

ID: 22_2_4_101

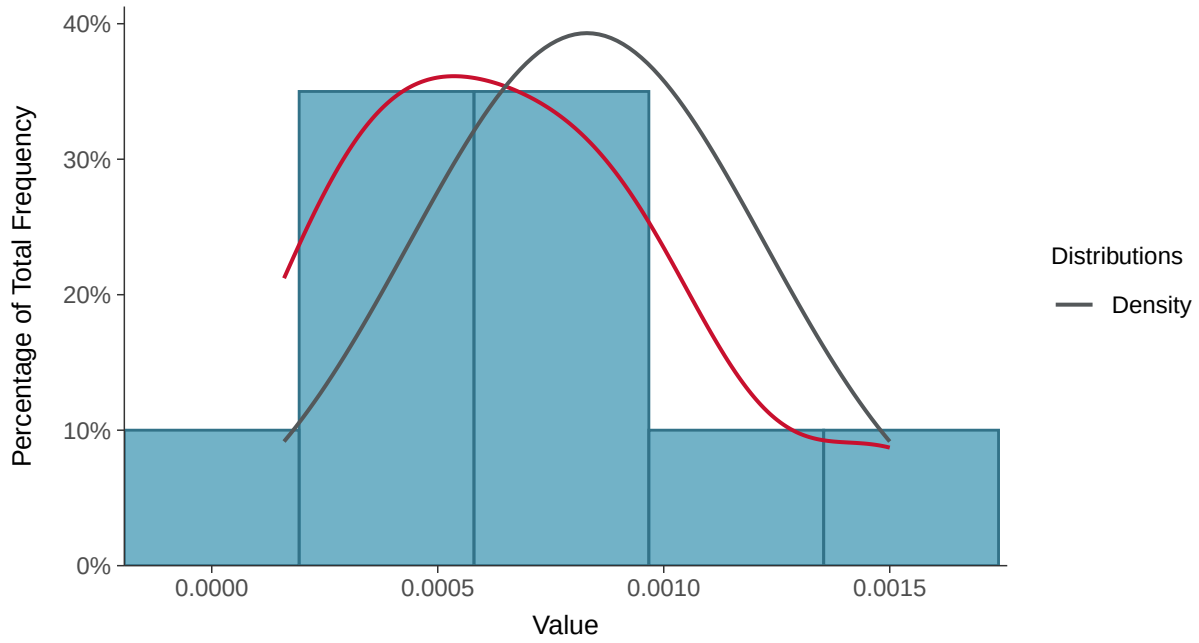
Scatter Plot

Antimony, MW-12 (mg/L)



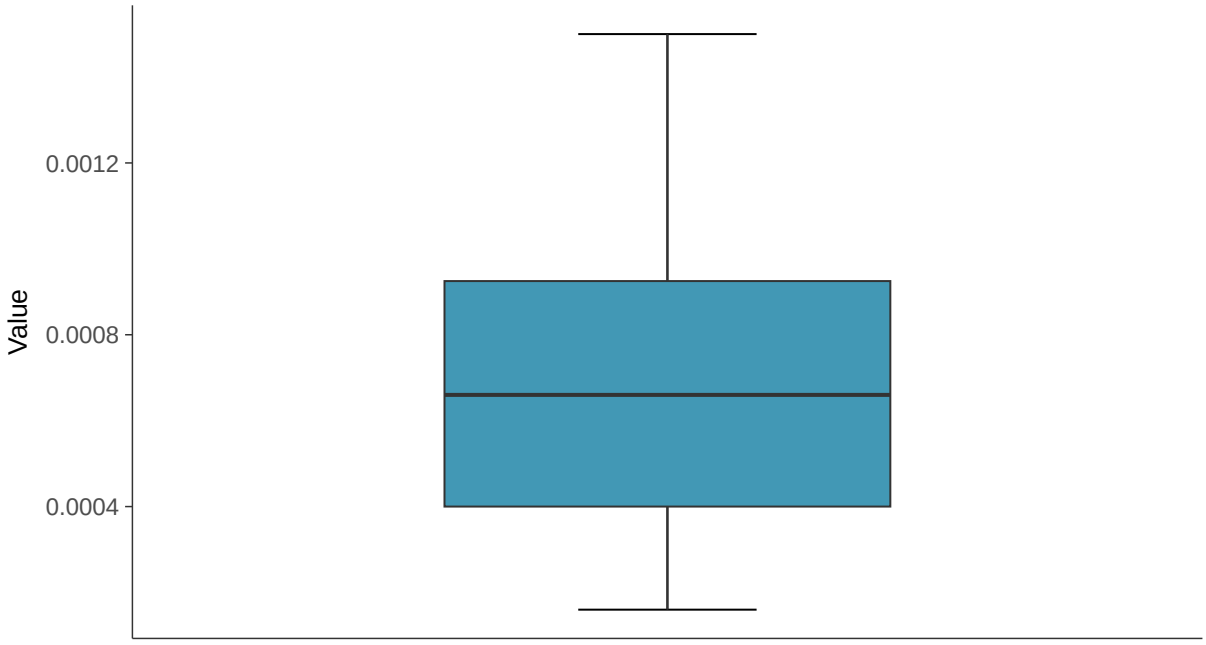
Histogram

Antimony, MW-12 (mg/L)



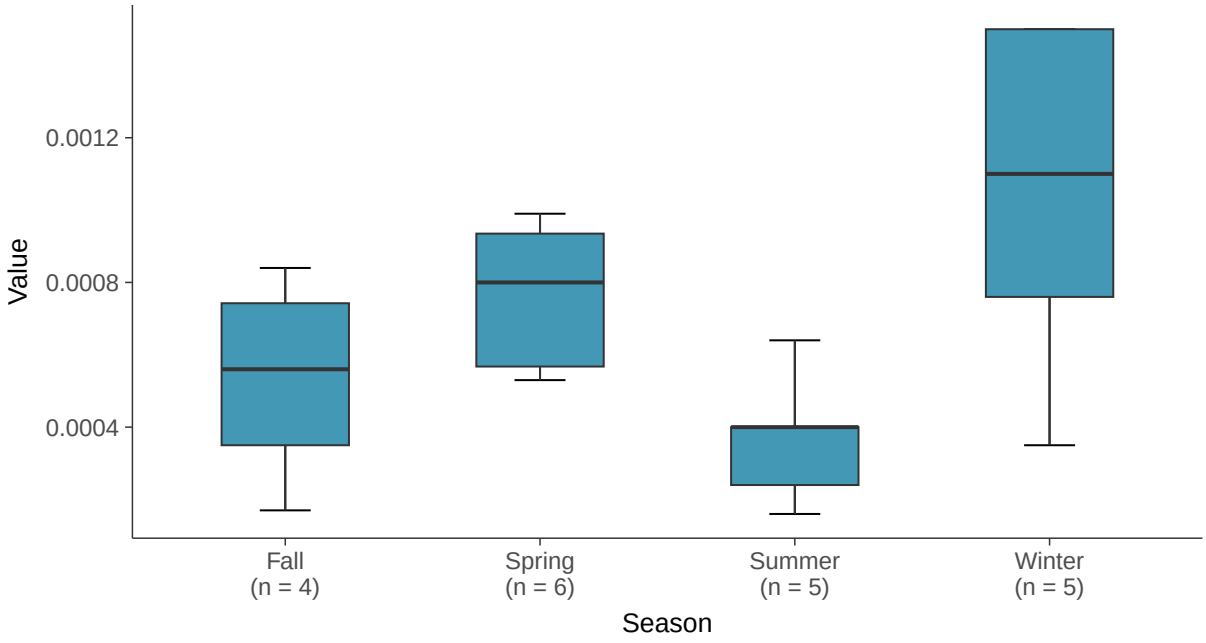
Boxplot

Antimony, MW-12 (mg/L)



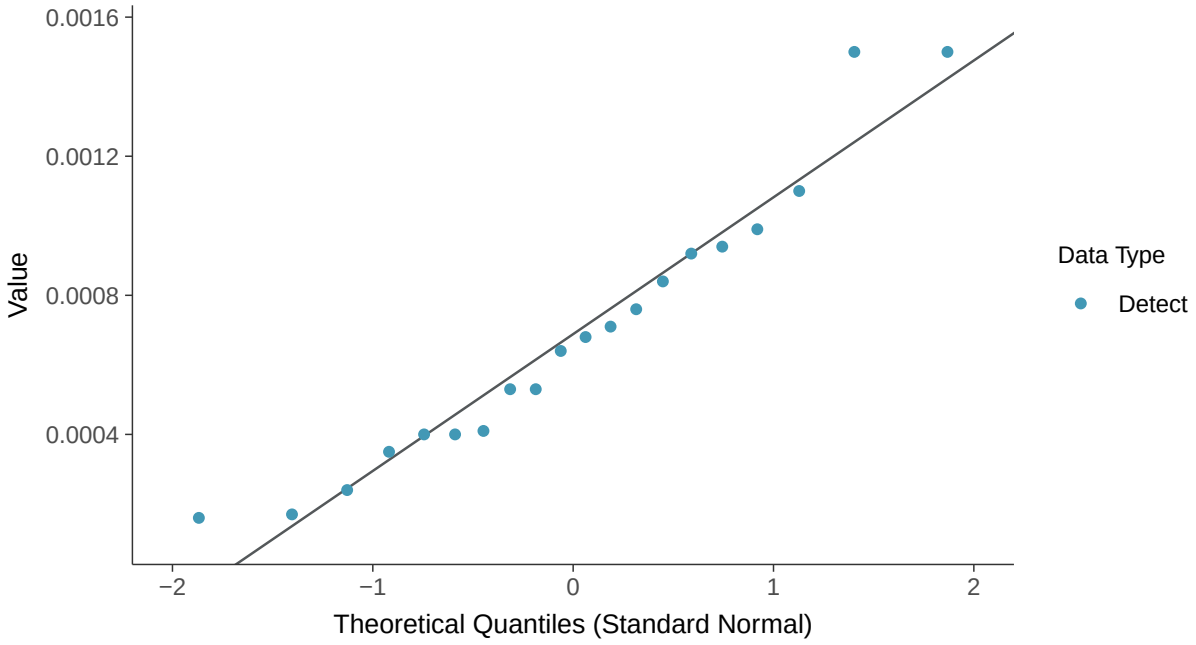
Boxplot by Season

Antimony, MW-12 (mg/L)



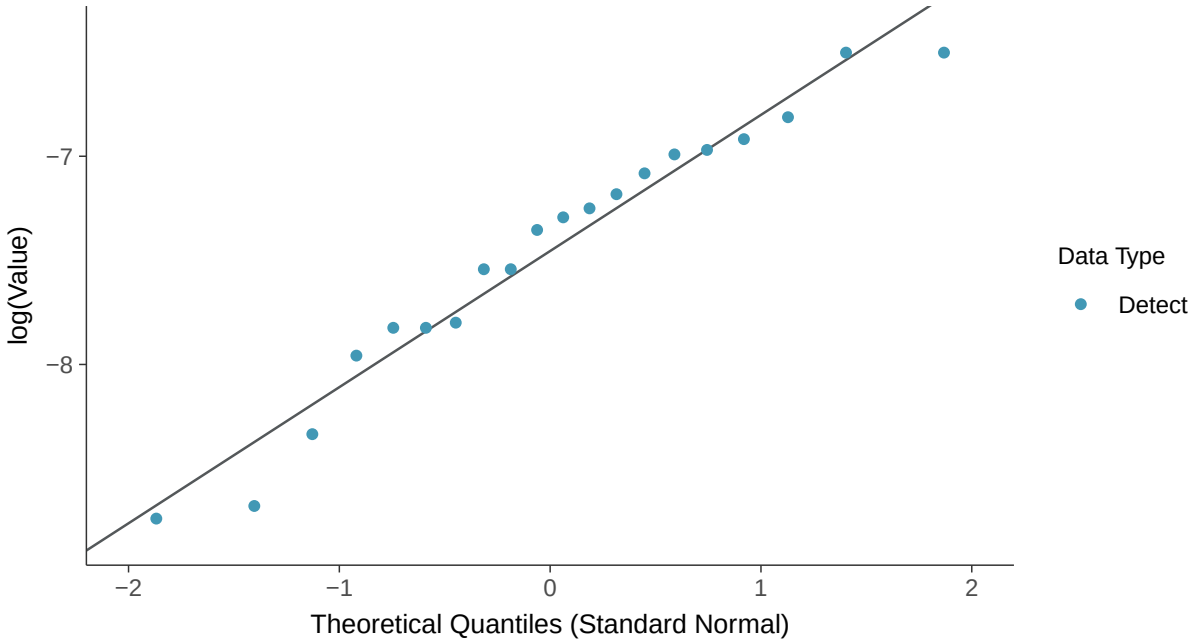
Normal Q-Q plot

Antimony, MW-12 (mg/L)



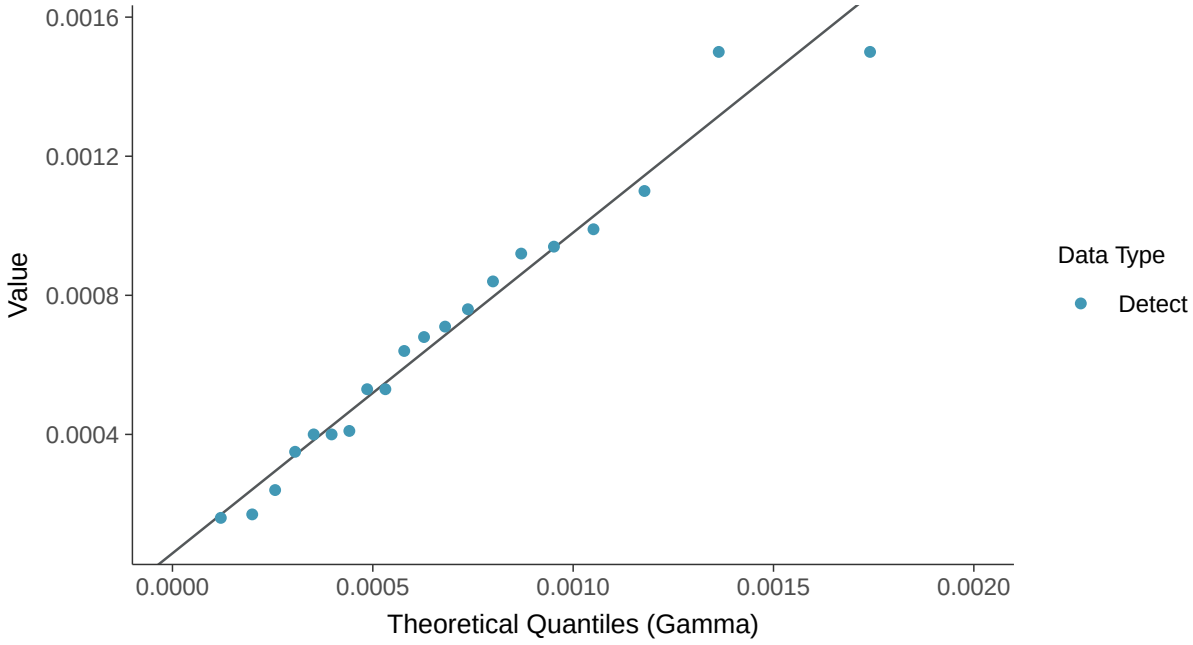
Lognormal Q-Q plot

Antimony, MW-12 (mg/L)



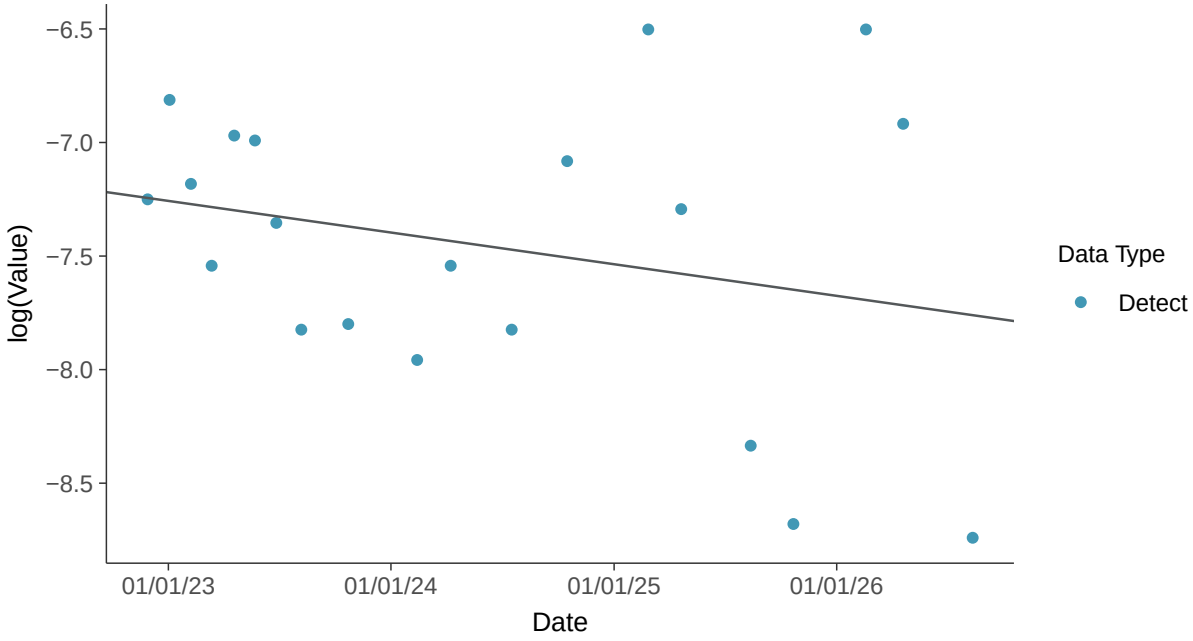
Gamma Q-Q plot

Antimony, MW-12 (mg/L)



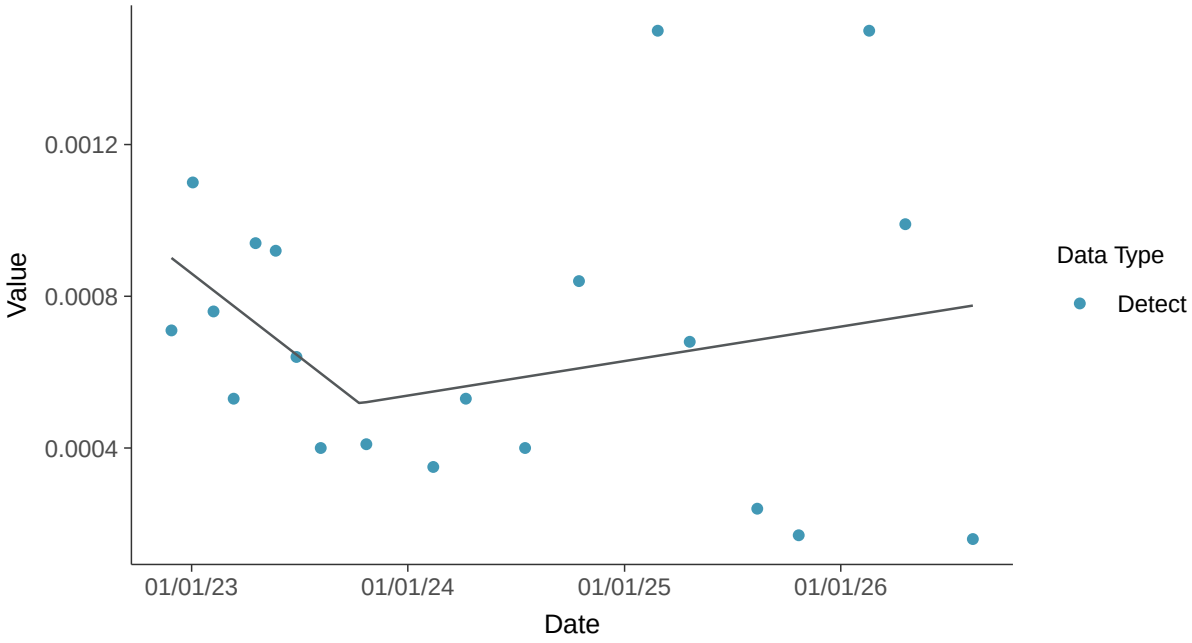
Trend Regression: Lognormal MLE

Antimony, MW-12 (mg/L)



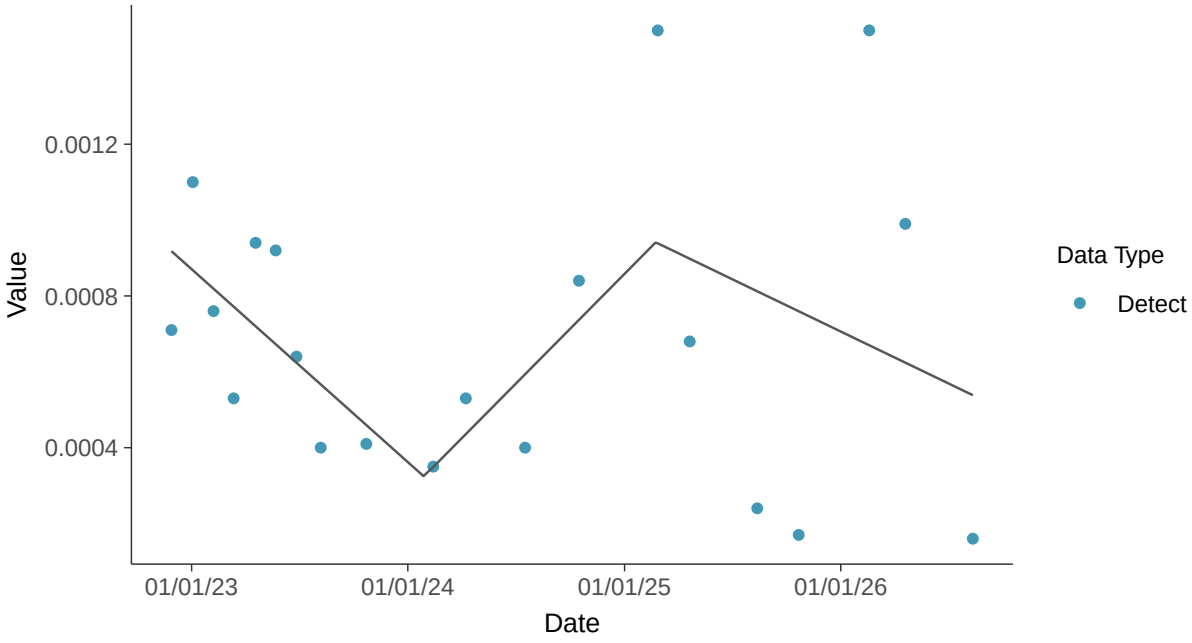
Trend Regression: Piecewise Linear-Linear

Antimony, MW-12 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Antimony, MW-12 (mg/L)

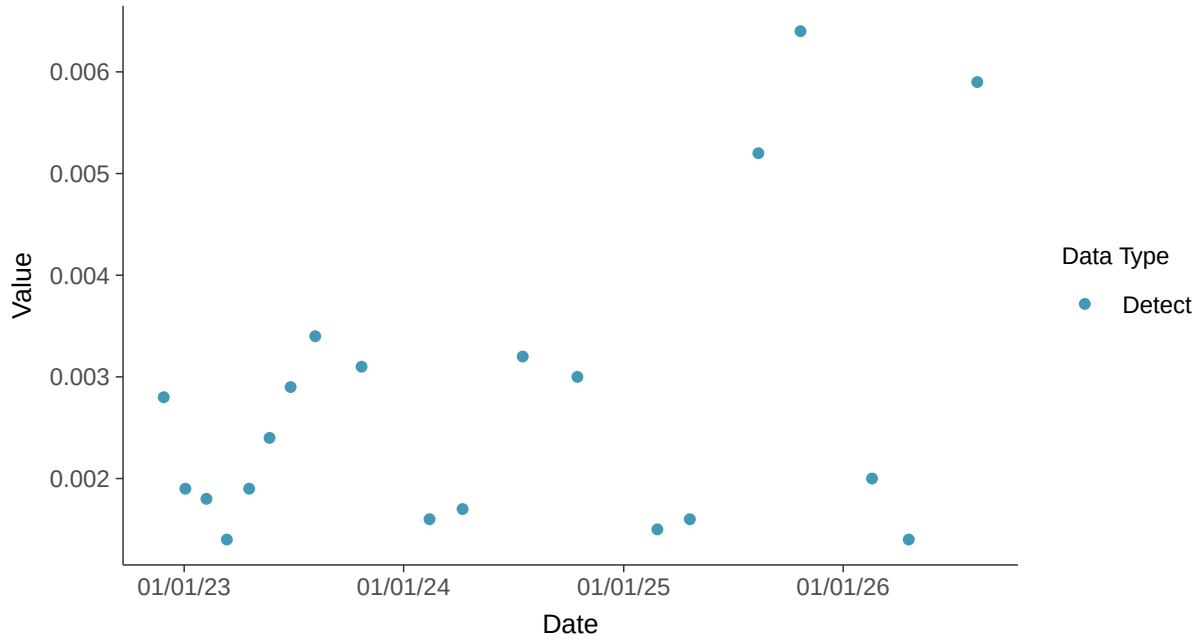


Appendix IV: Arsenic, MW-12

ID: 22_2_4_102

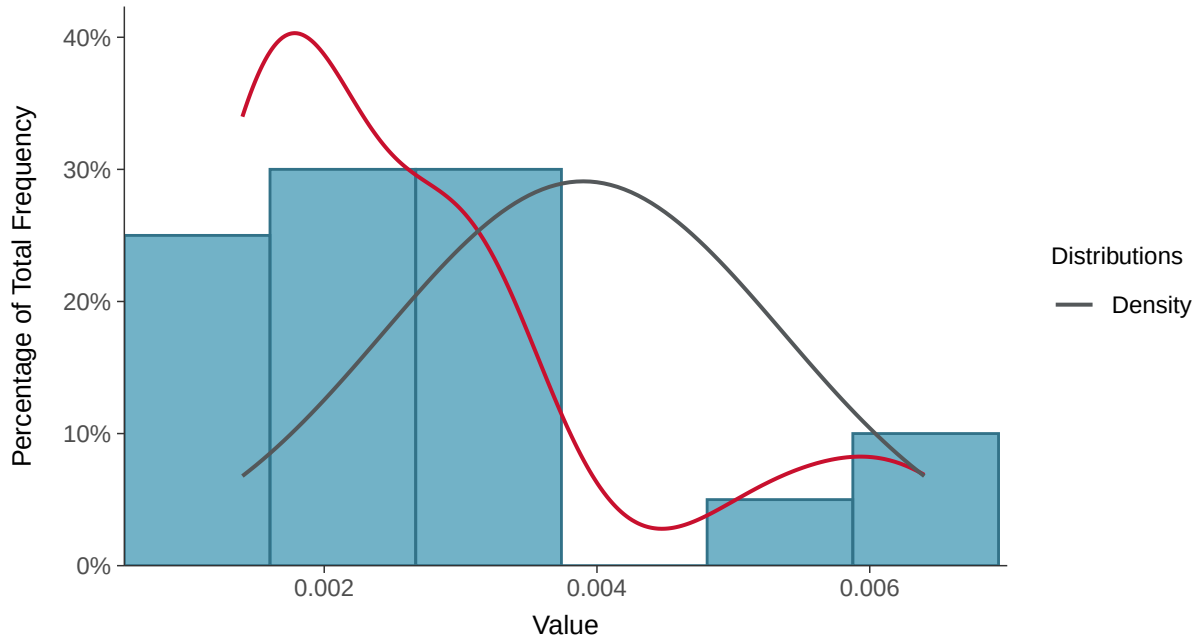
Scatter Plot

Arsenic, MW-12 (mg/L)



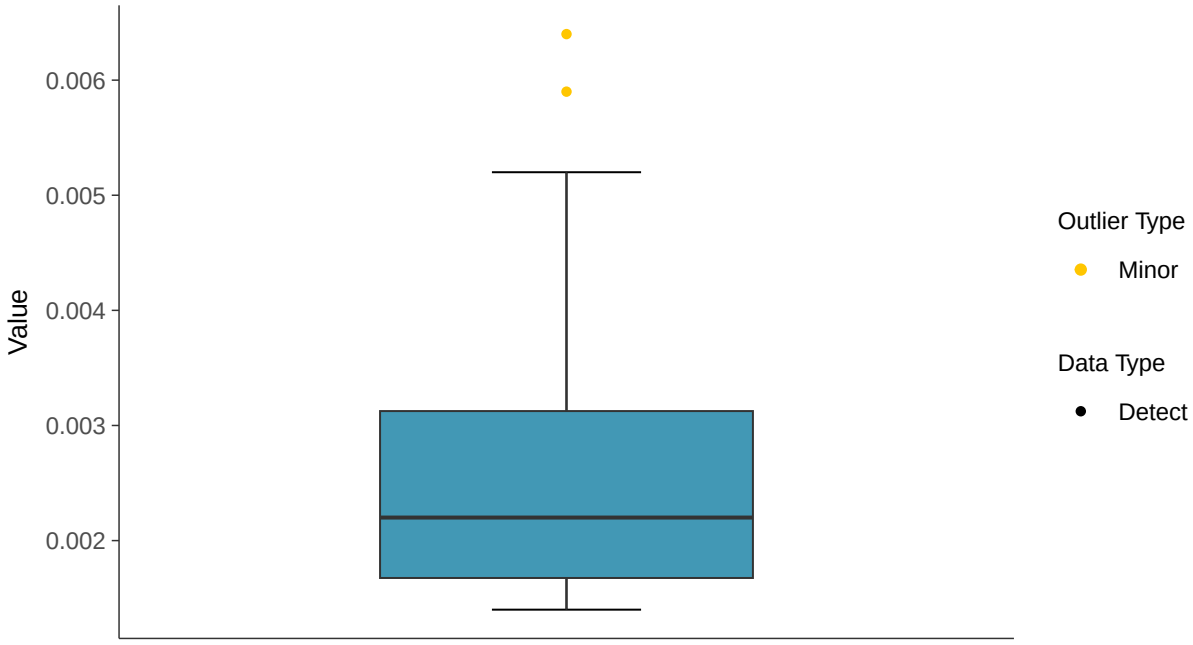
Histogram

Arsenic, MW-12 (mg/L)



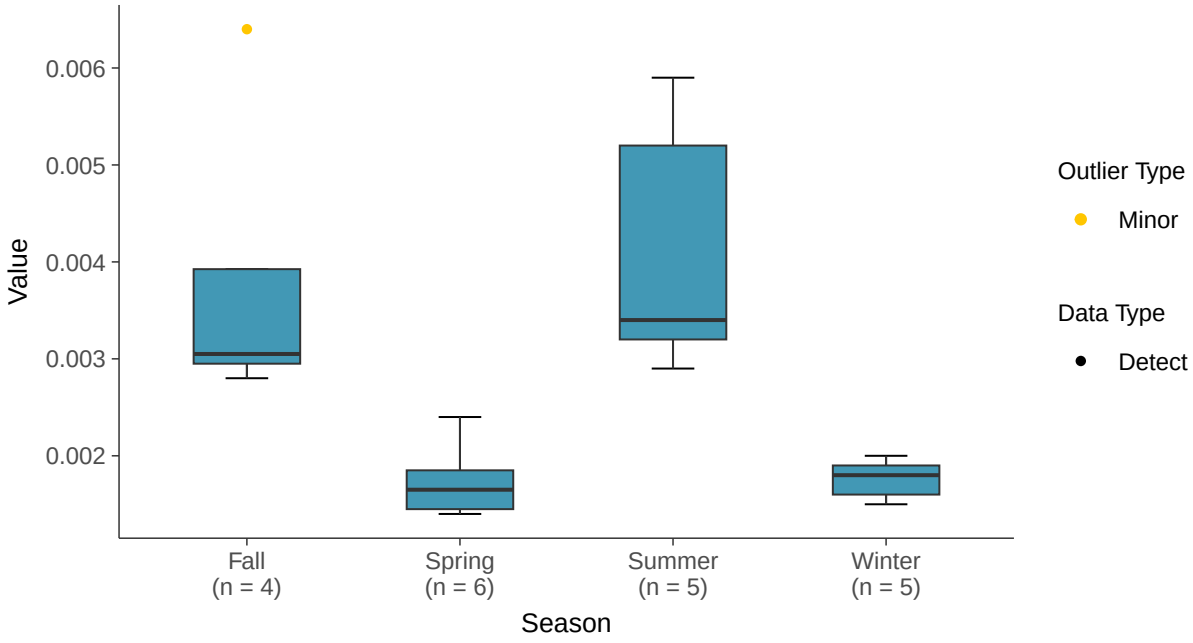
Boxplot

Arsenic, MW-12 (mg/L)



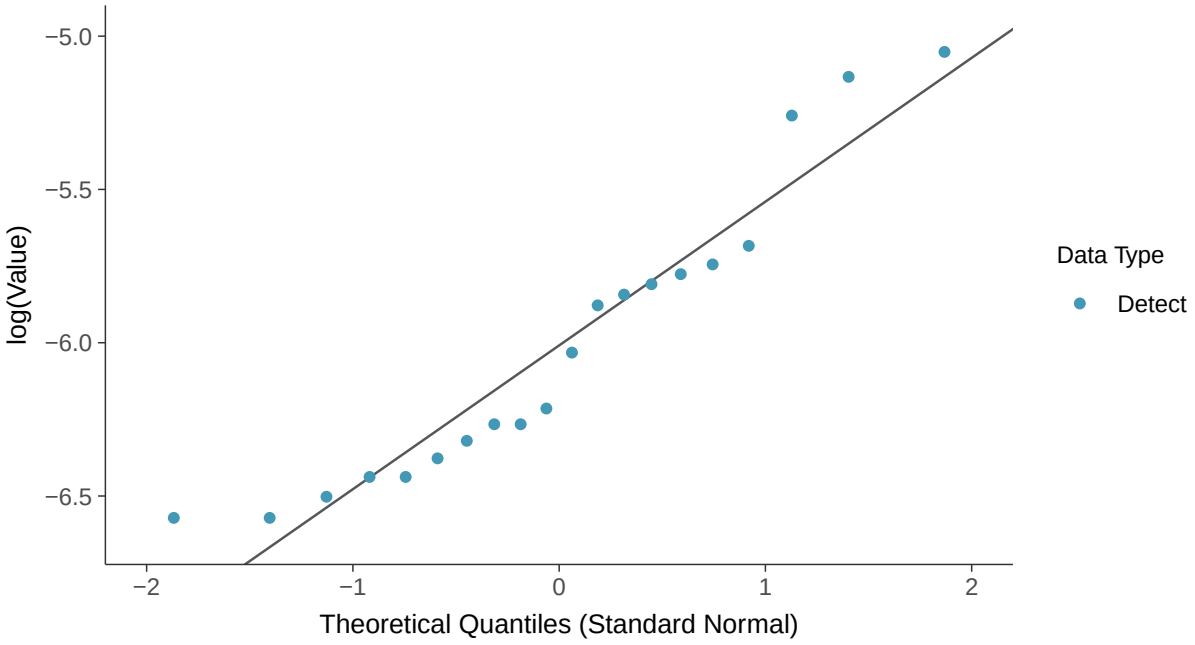
Boxplot by Season

Arsenic, MW-12 (mg/L)



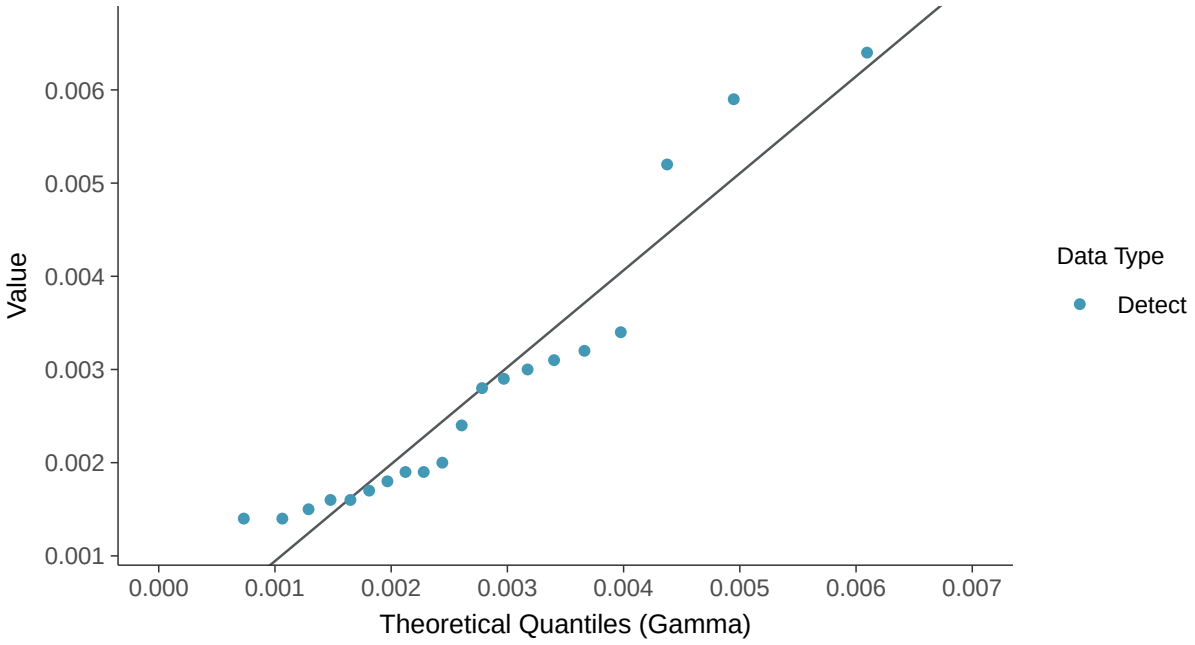
Lognormal Q-Q plot

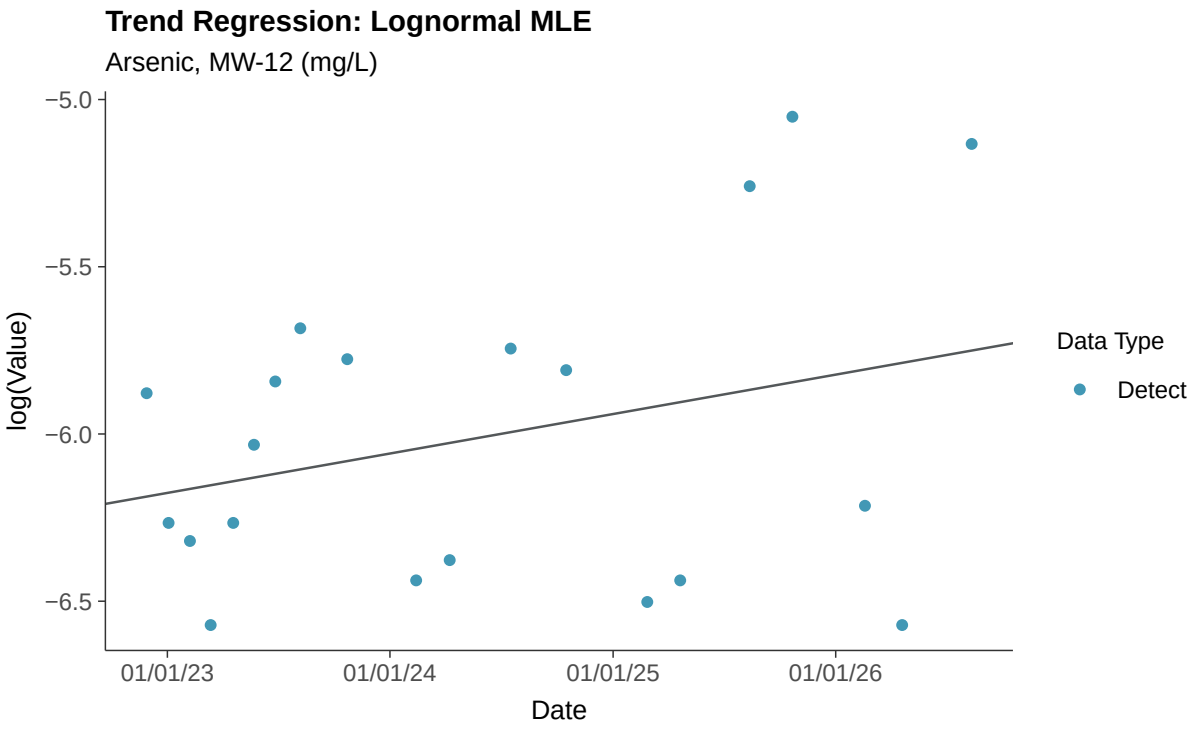
Arsenic, MW-12 (mg/L)



Gamma Q-Q plot

Arsenic, MW-12 (mg/L)



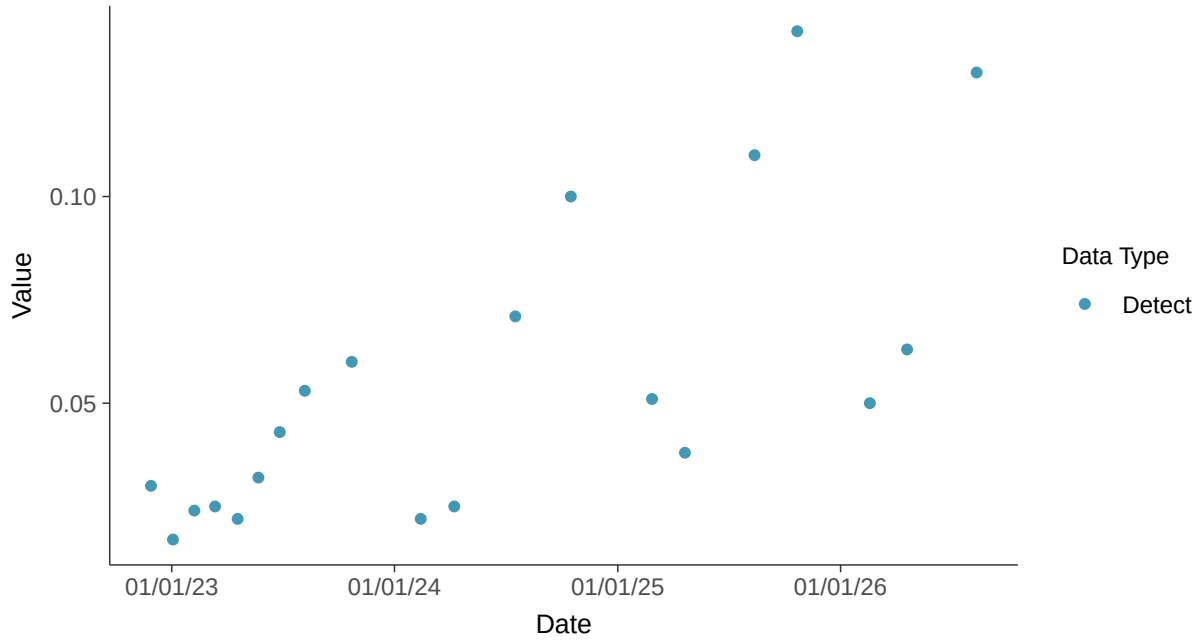

Trend Regression: Lognormal MLE
Arsenic, MW-12 (mg/L)
−5.0
−5.5
−6.0
−6.5
log(Value)
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect

Appendix IV: Barium, MW-12

ID: 22_2_4_103

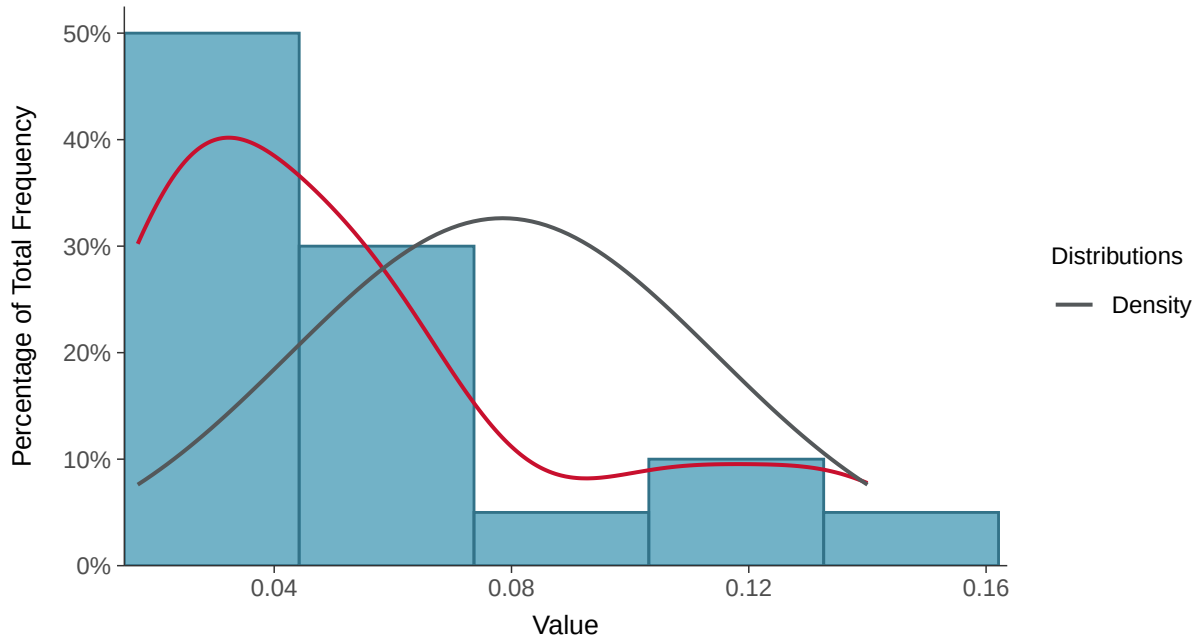
Scatter Plot

Barium, MW-12 (mg/L)



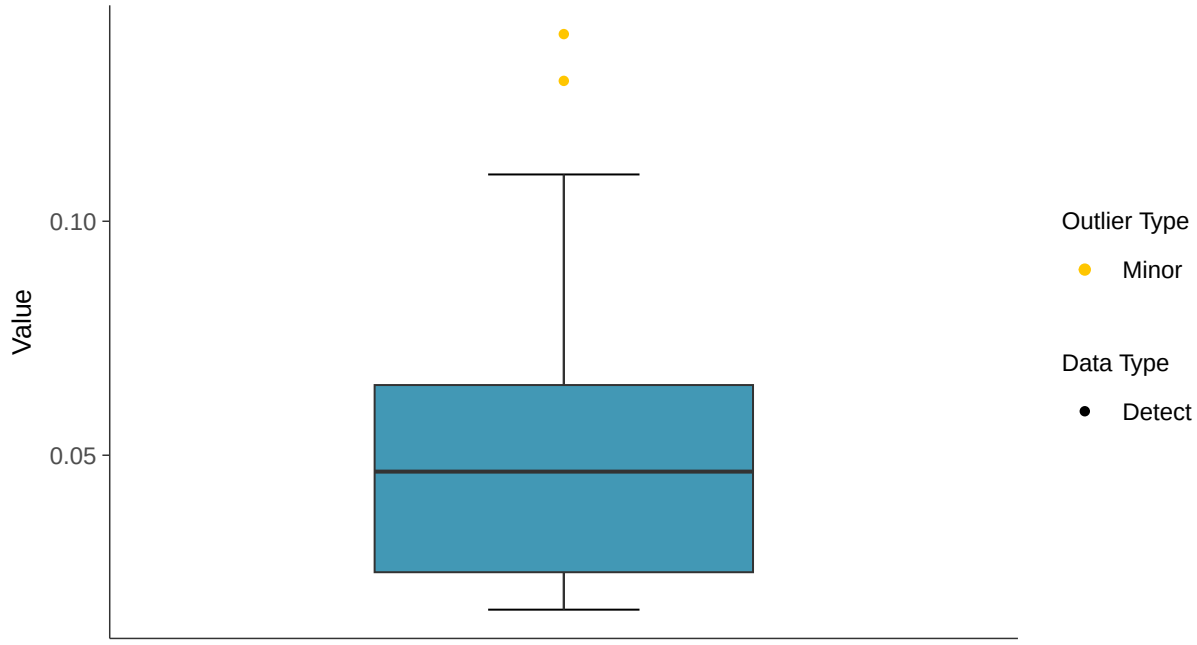
Histogram

Barium, MW-12 (mg/L)



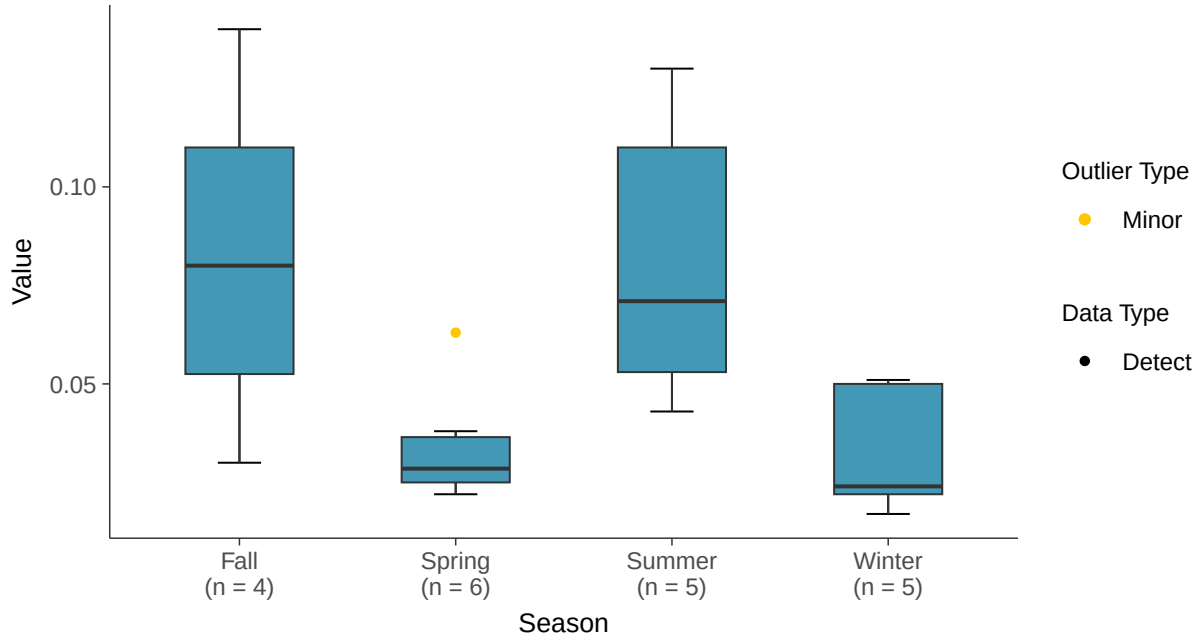
Boxplot

Barium, MW-12 (mg/L)



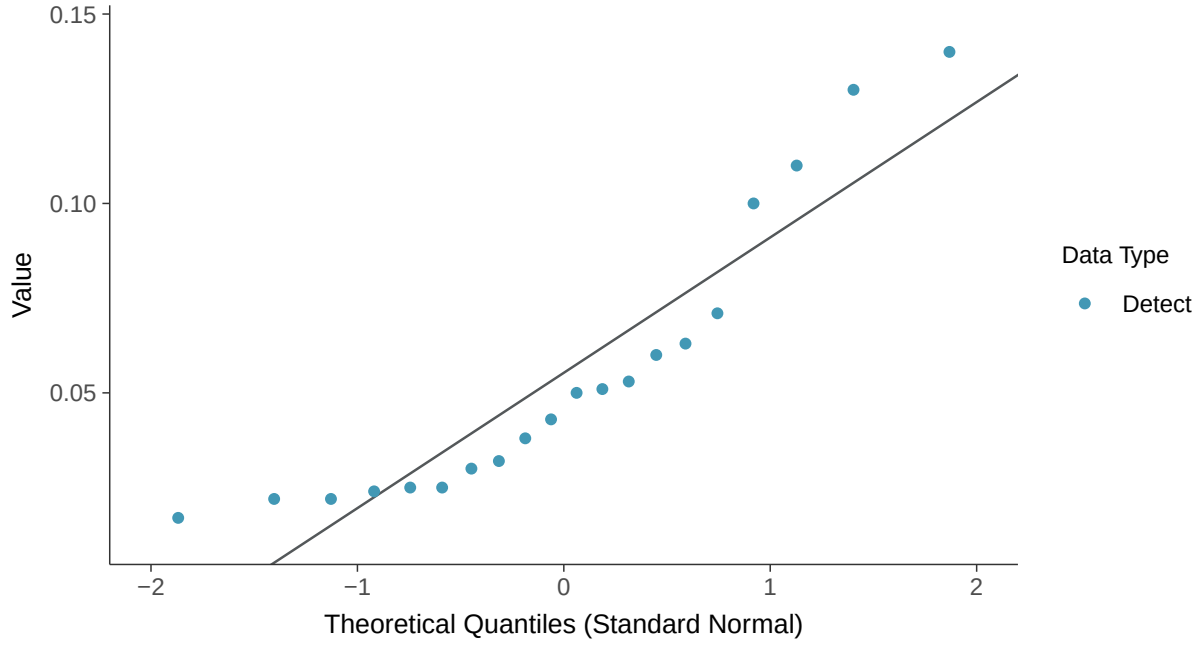
Boxplot by Season

Barium, MW-12 (mg/L)



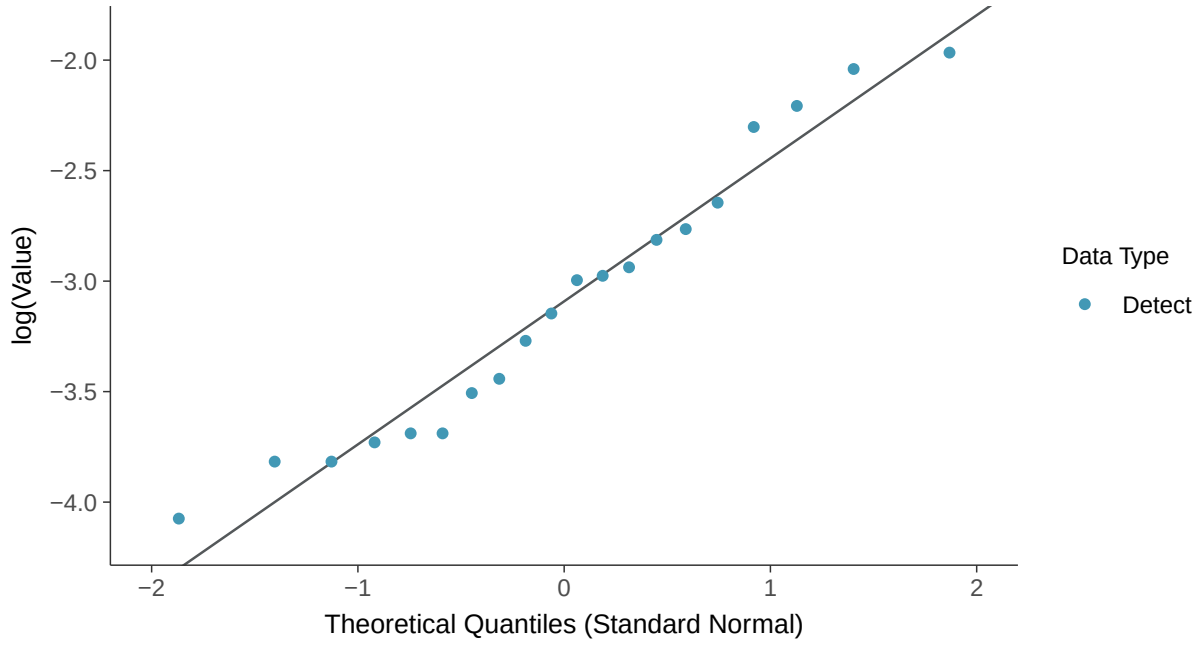
Normal Q-Q plot

Barium, MW-12 (mg/L)



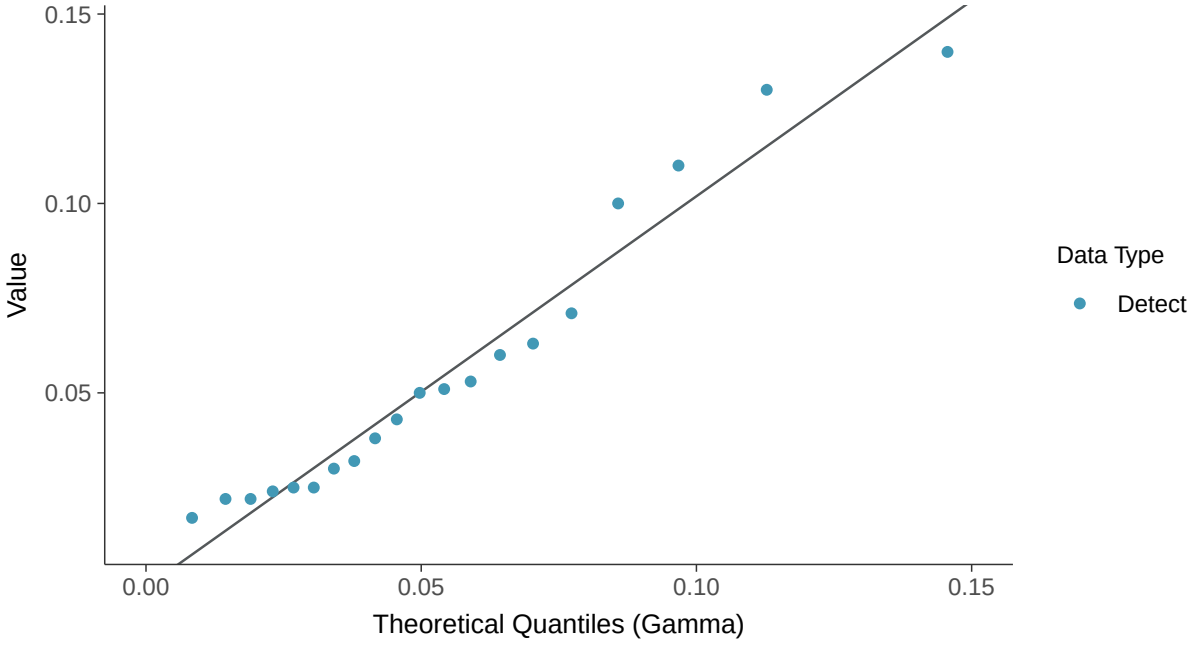
Lognormal Q-Q plot

Barium, MW-12 (mg/L)



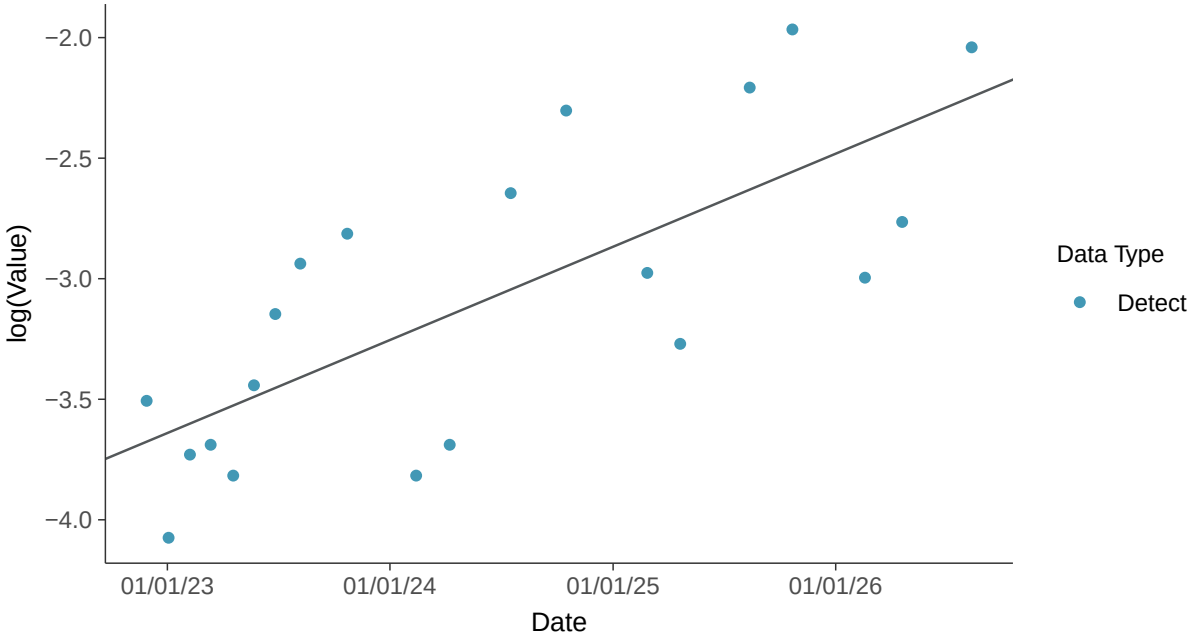
Gamma Q-Q plot

Barium, MW-12 (mg/L)



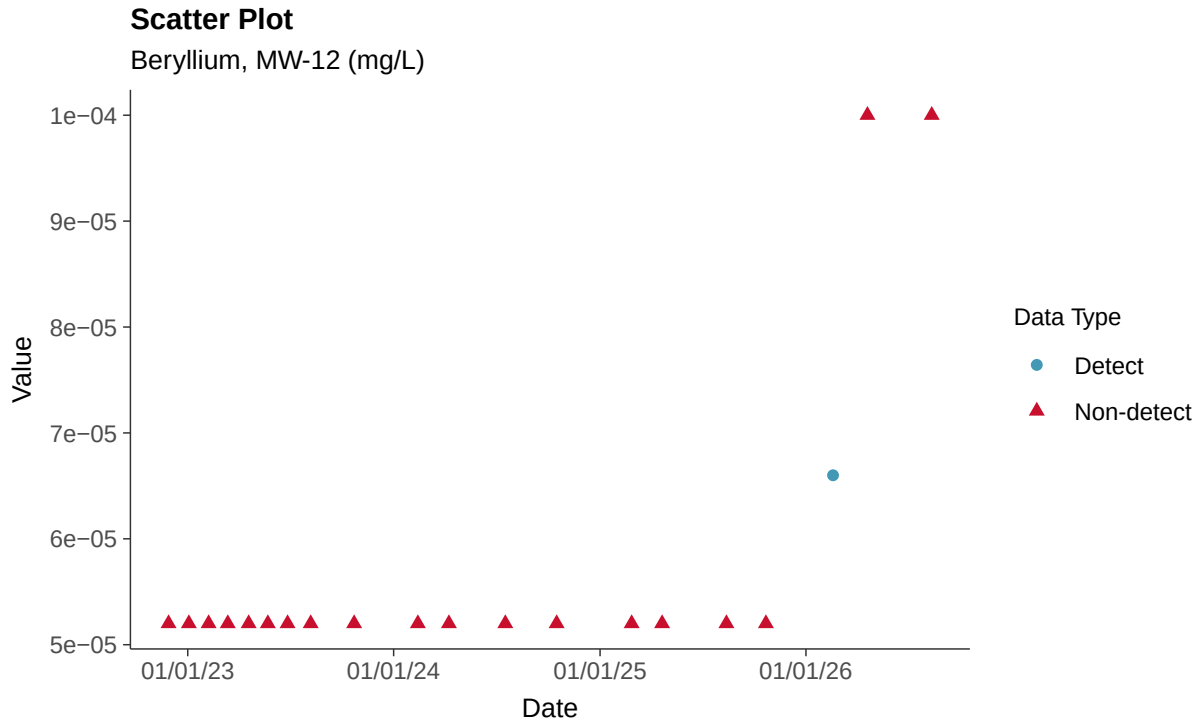
Trend Regression: Lognormal MLE

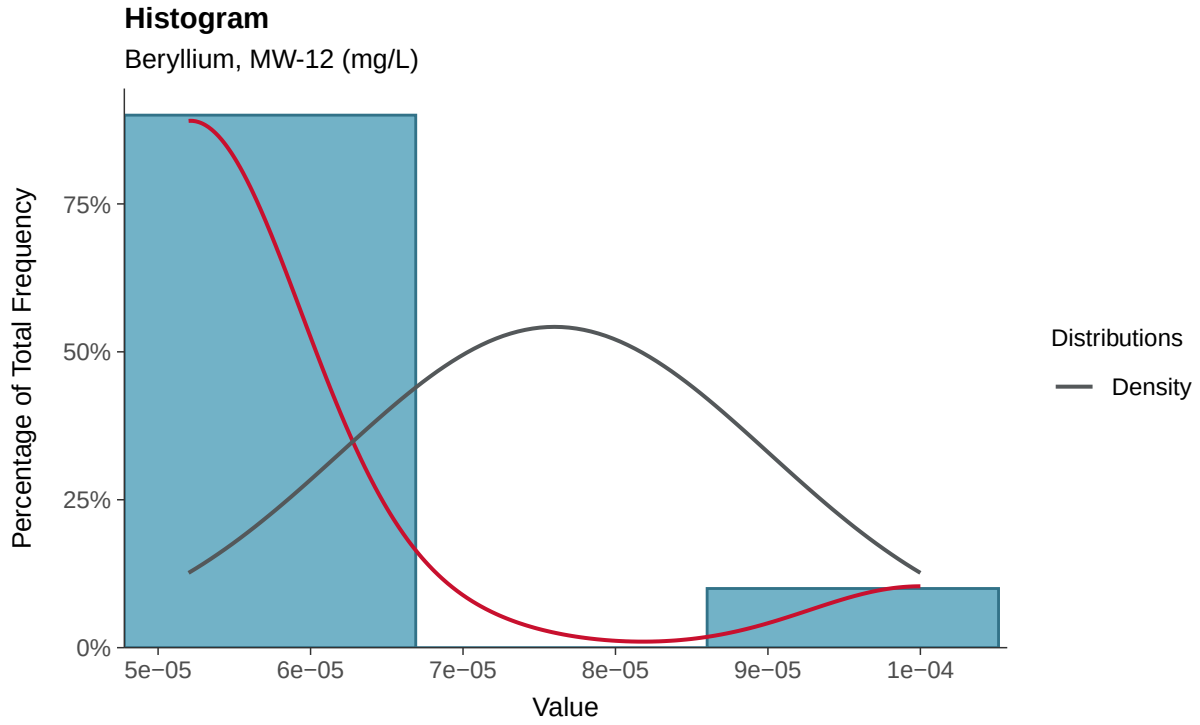
Barium, MW-12 (mg/L)



Appendix IV: Beryllium, MW-12

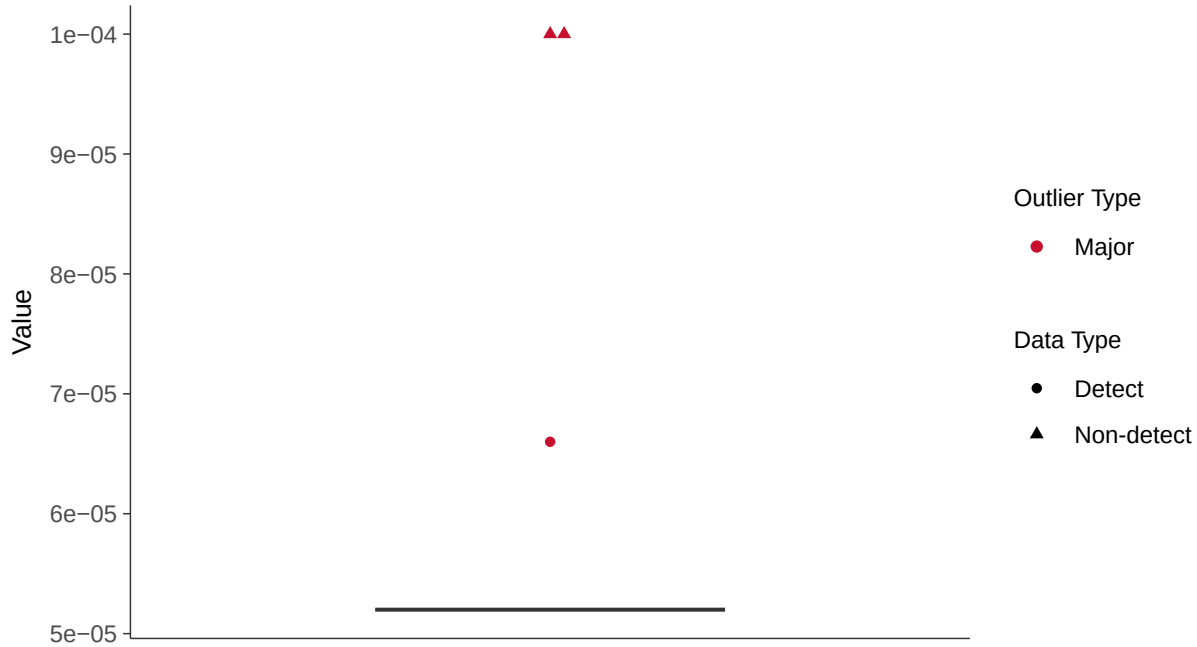
ID: 22_2_4_104





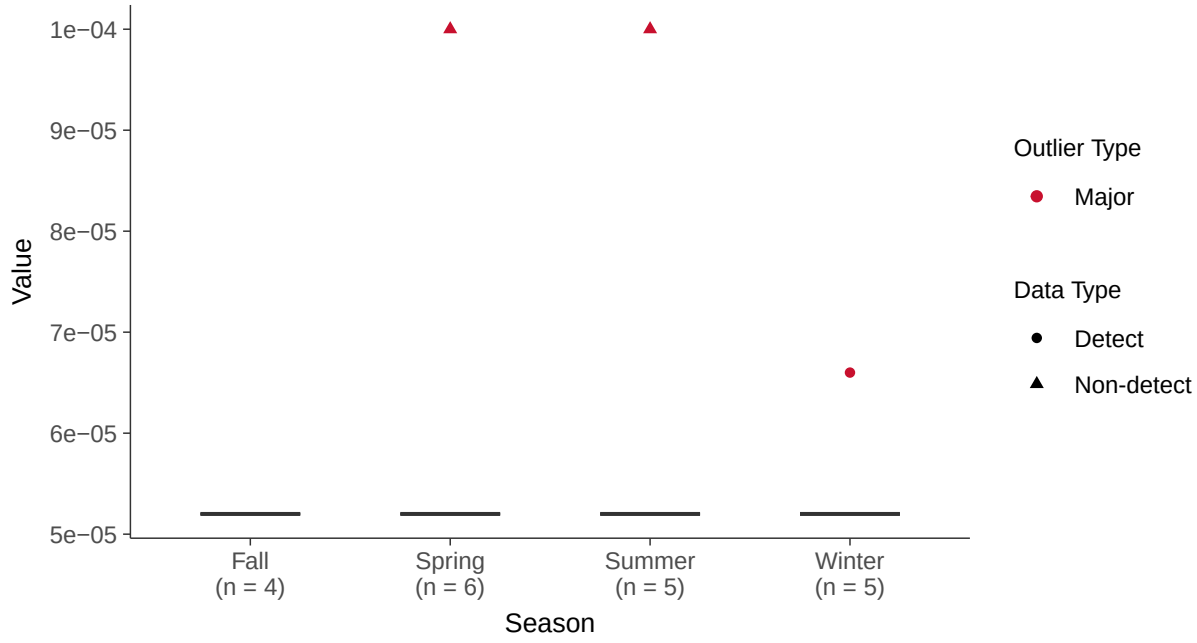
Boxplot

Beryllium, MW-12 (mg/L)



Boxplot by Season

Beryllium, MW-12 (mg/L)

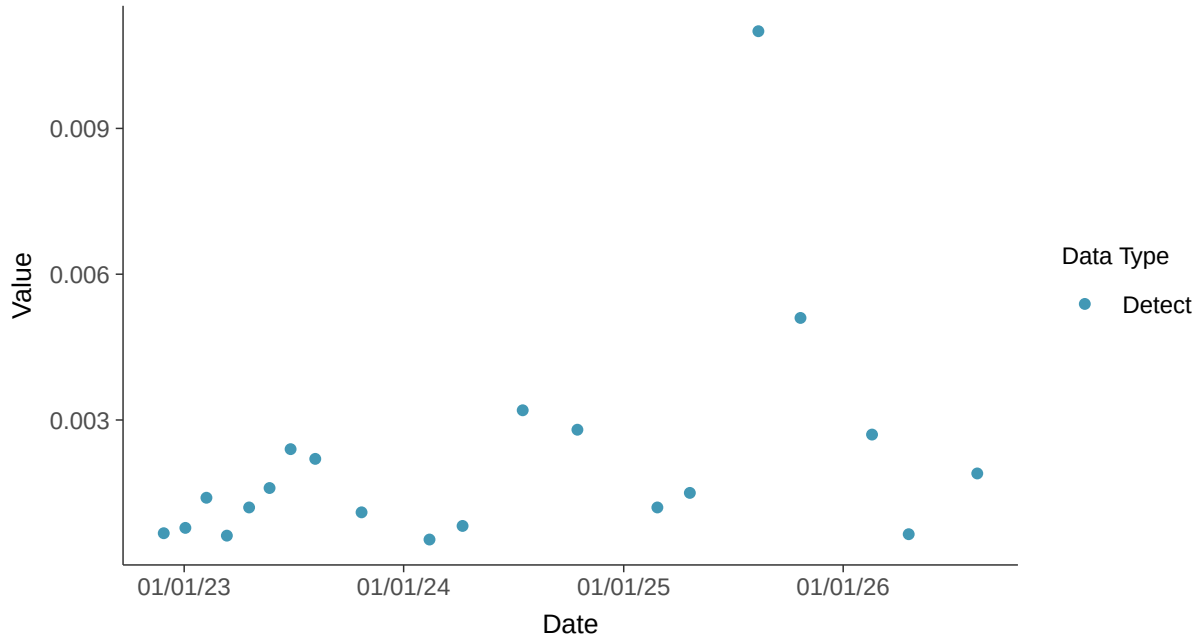


Appendix IV: Cadmium, MW-12

ID: 22_2_4_106

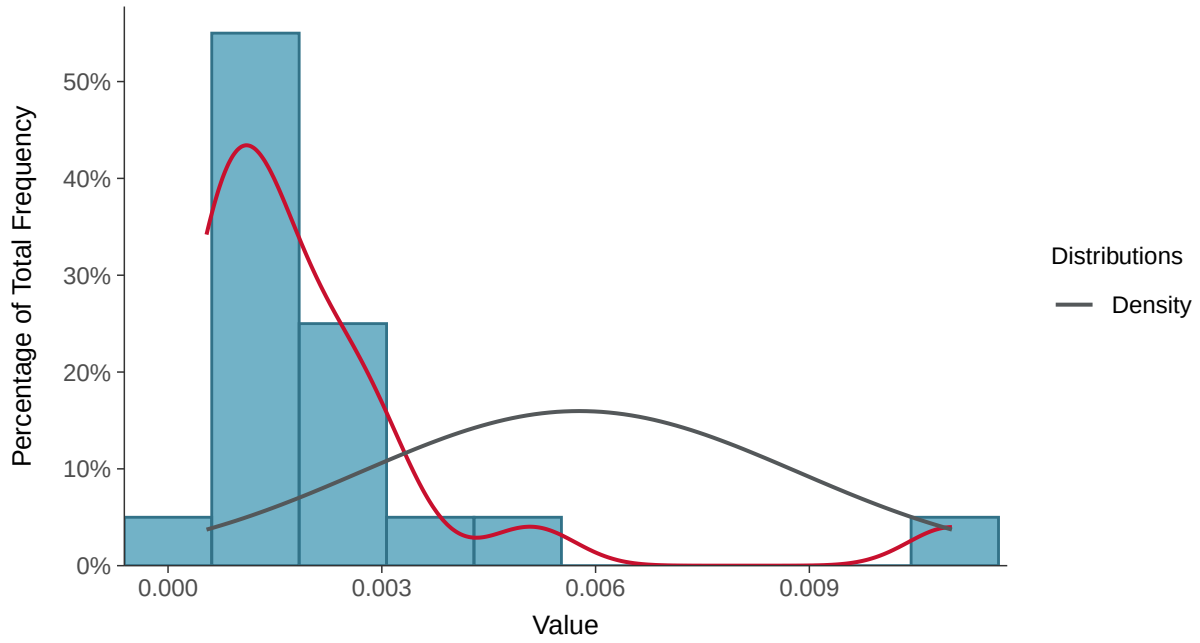
Scatter Plot

Cadmium, MW-12 (mg/L)



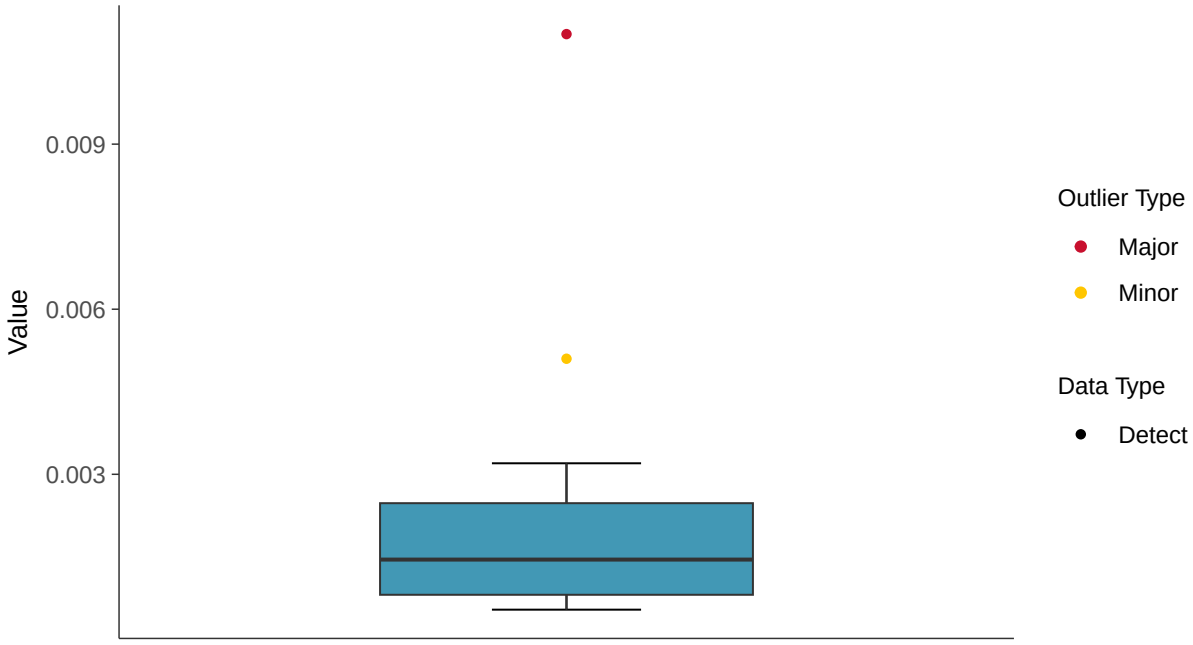
Histogram

Cadmium, MW-12 (mg/L)



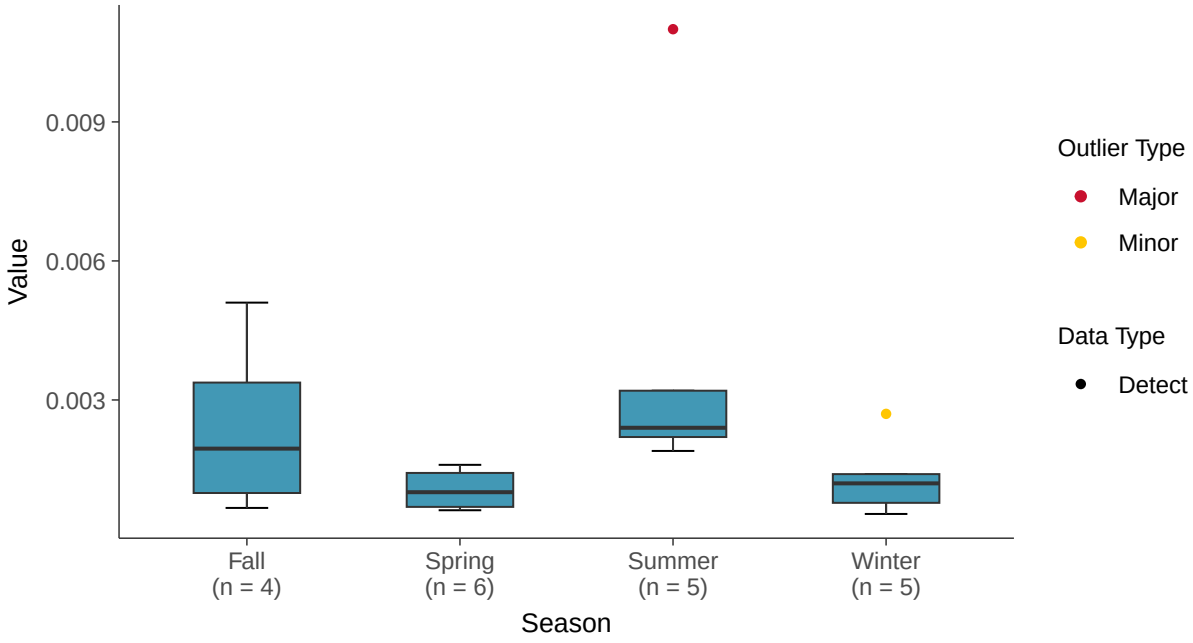
Boxplot

Cadmium, MW-12 (mg/L)



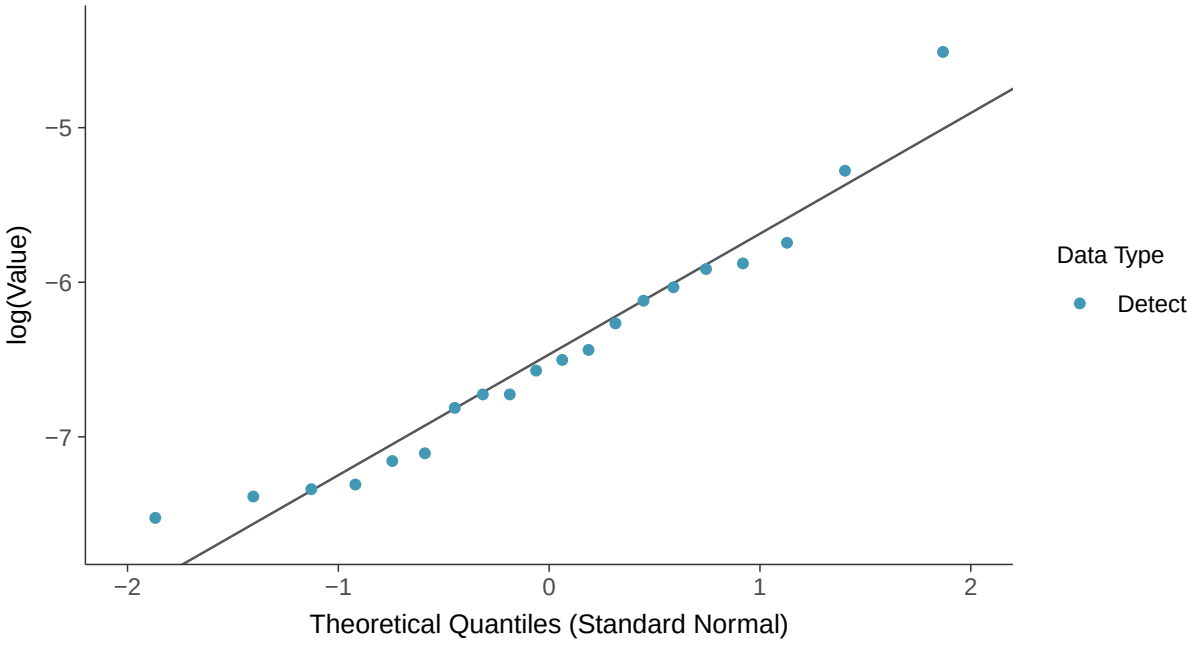
Boxplot by Season

Cadmium, MW-12 (mg/L)



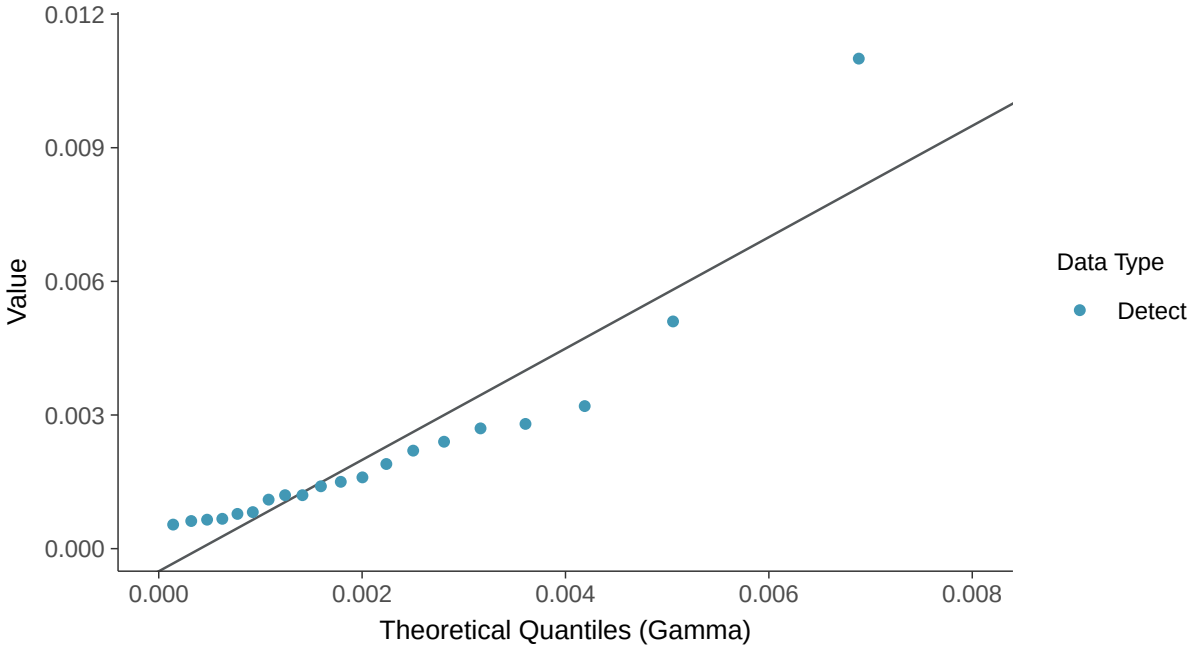
Lognormal Q-Q plot

Cadmium, MW-12 (mg/L)



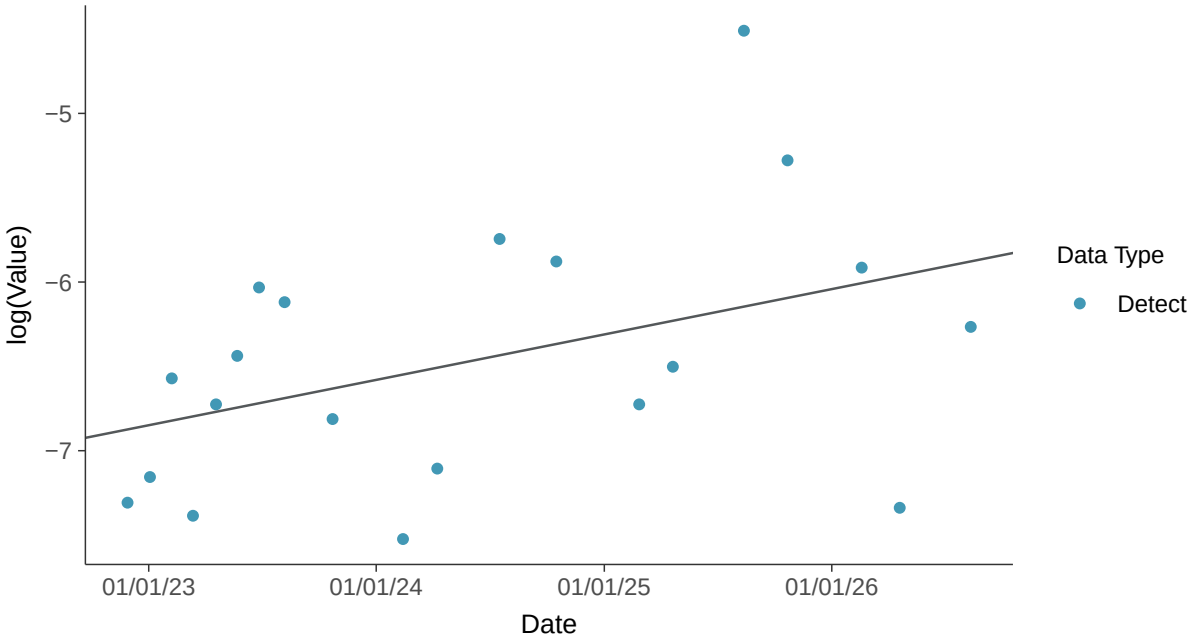
Gamma Q-Q plot

Cadmium, MW-12 (mg/L)



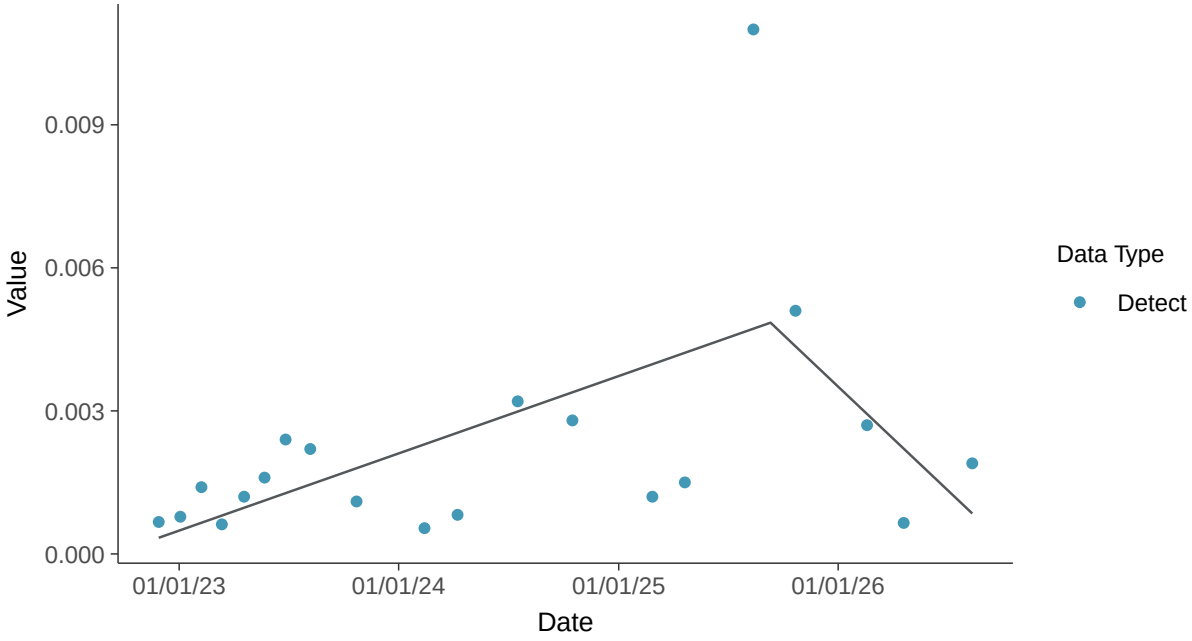
Trend Regression: Lognormal MLE

Cadmium, MW-12 (mg/L)



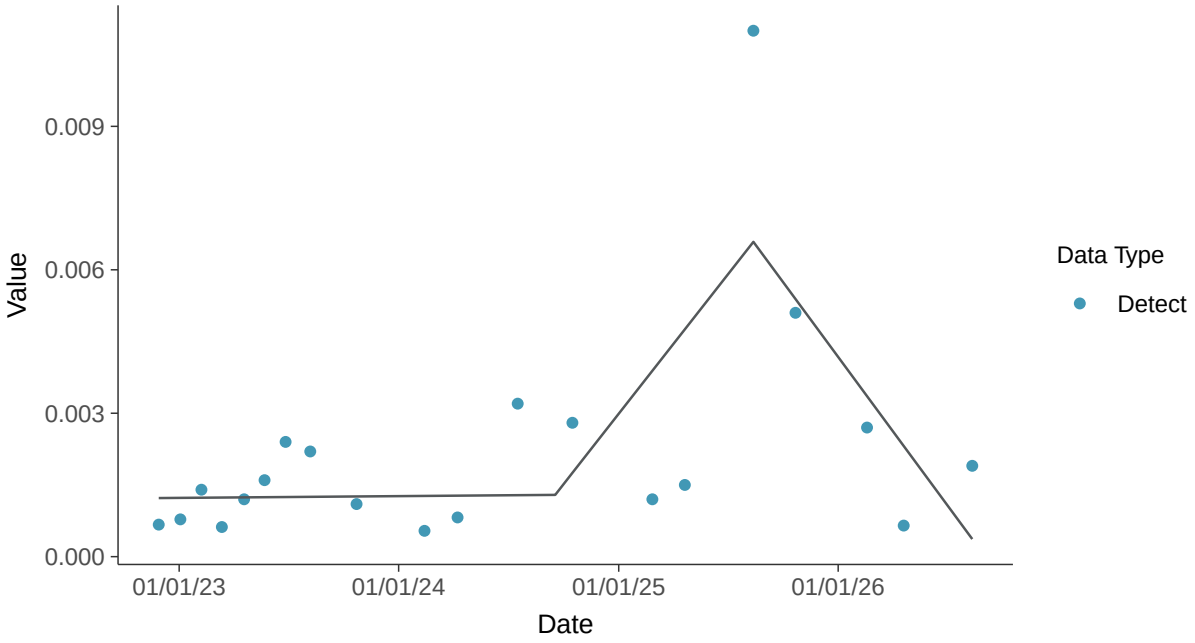
Trend Regression: Piecewise Linear-Linear

Cadmium, MW-12 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Cadmium, MW-12 (mg/L)

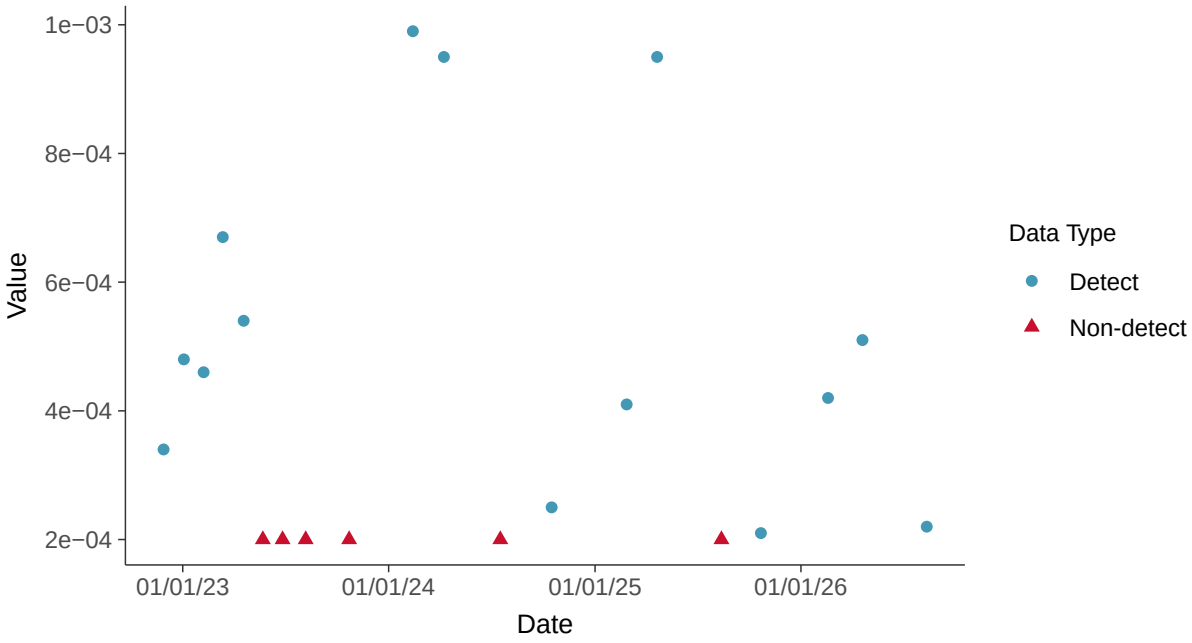


Appendix IV: Chromium, Total, MW-12

ID: 22_2_4_109

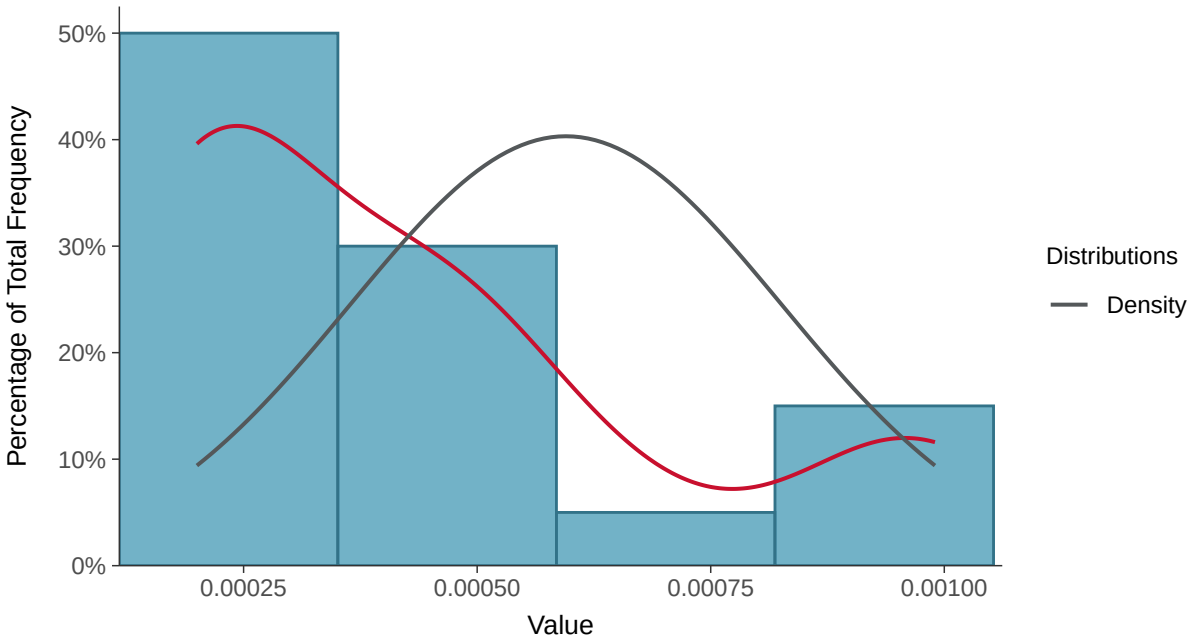
Scatter Plot

Chromium, Total, MW-12 (mg/L)



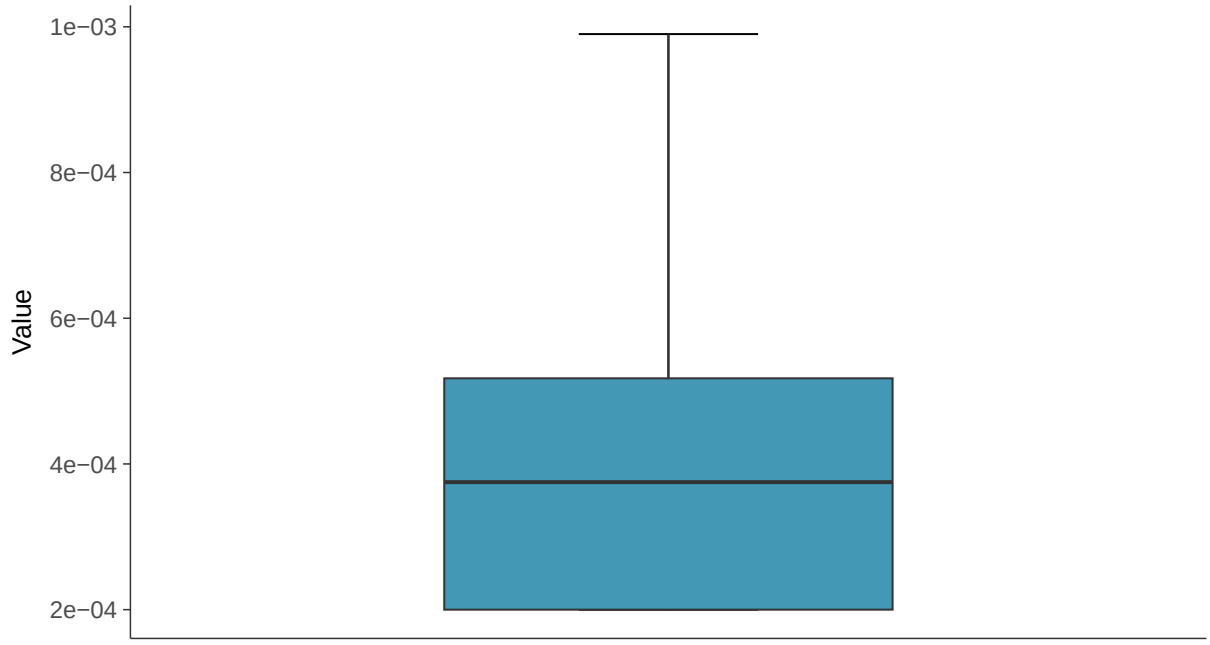
Histogram

Chromium, Total, MW-12 (mg/L)



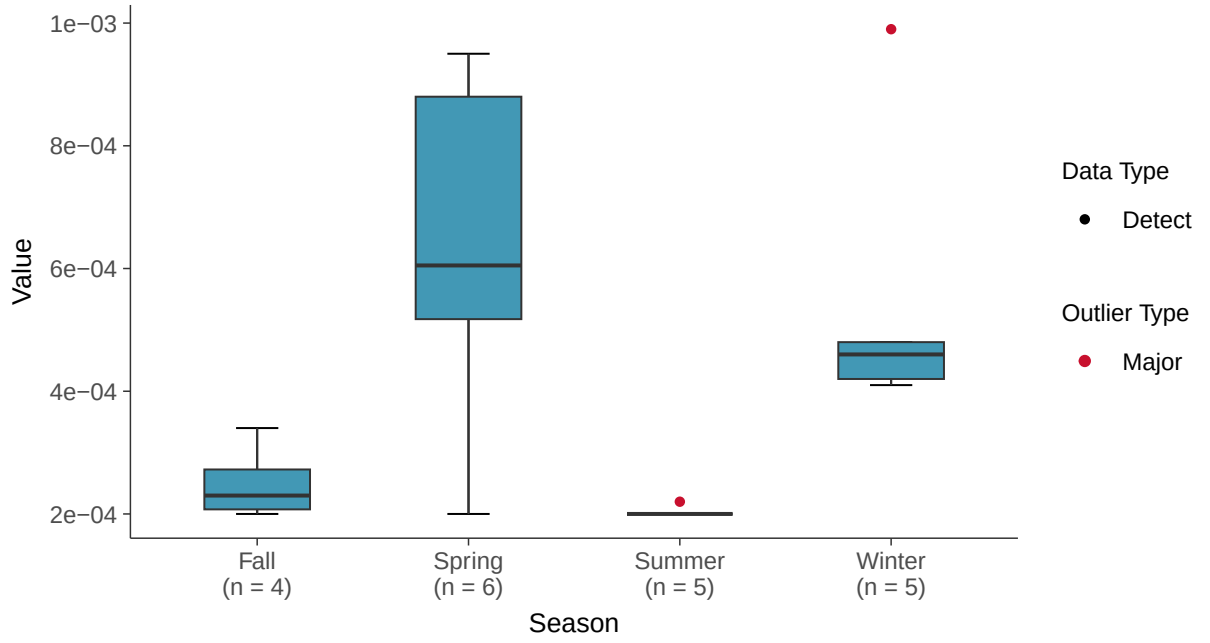
Boxplot

Chromium, Total, MW-12 (mg/L)



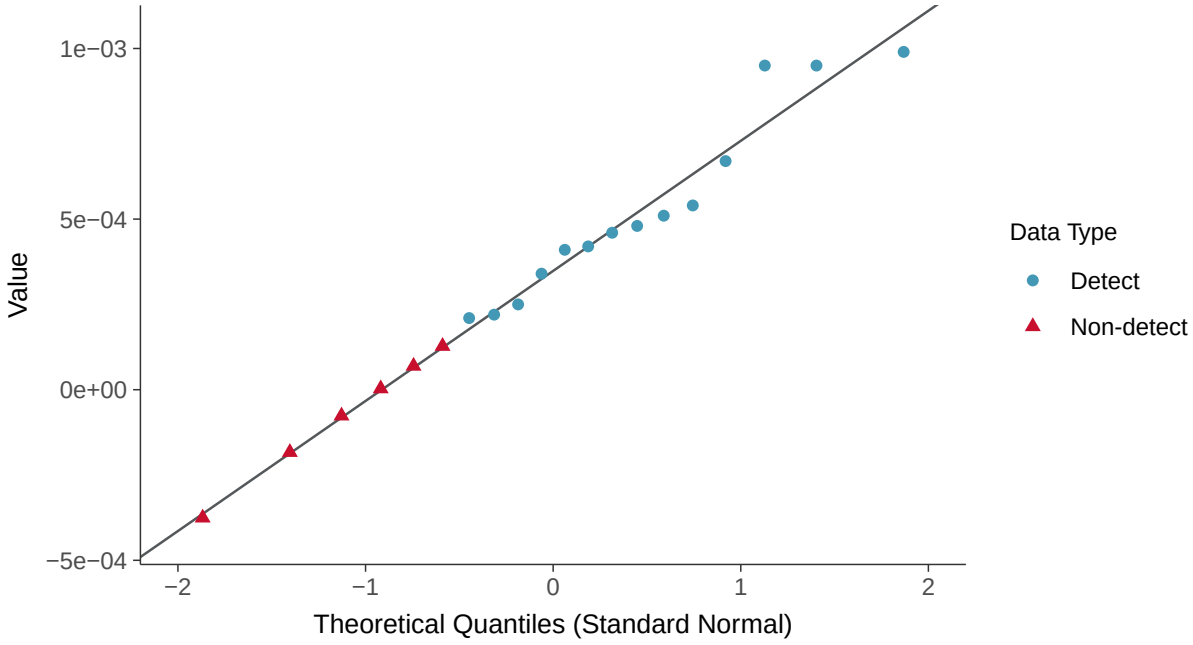
Boxplot by Season

Chromium, Total, MW-12 (mg/L)



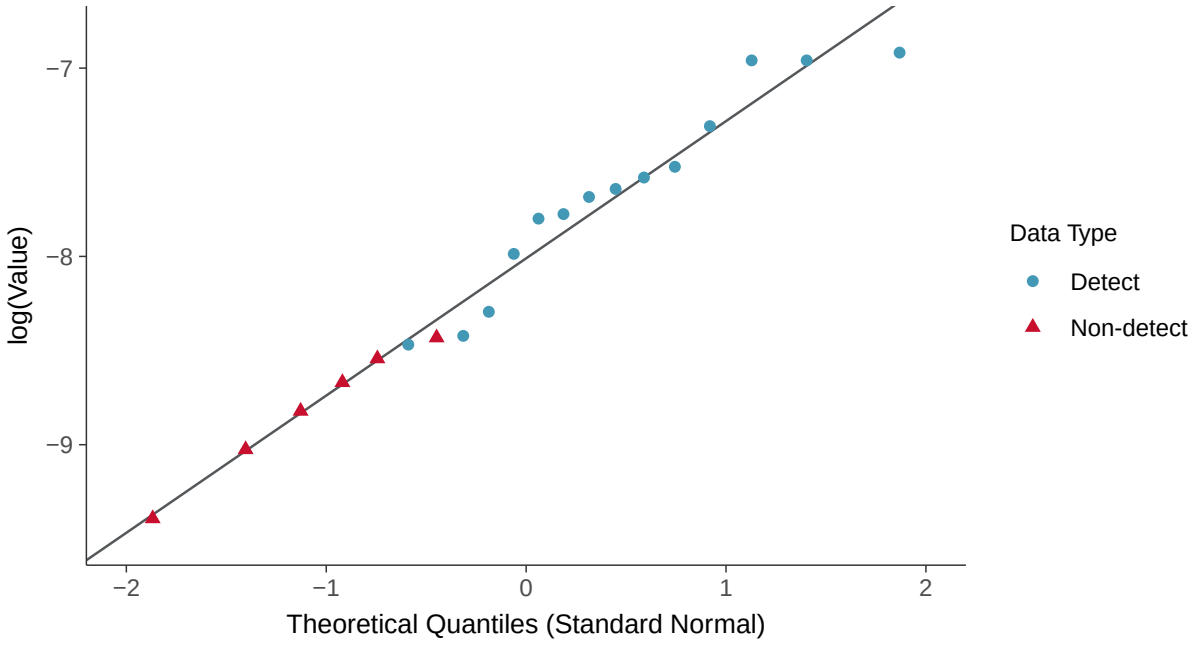
Normal Q-Q plot using ROS Imputed Estimates

Chromium, Total, MW-12 (mg/L)



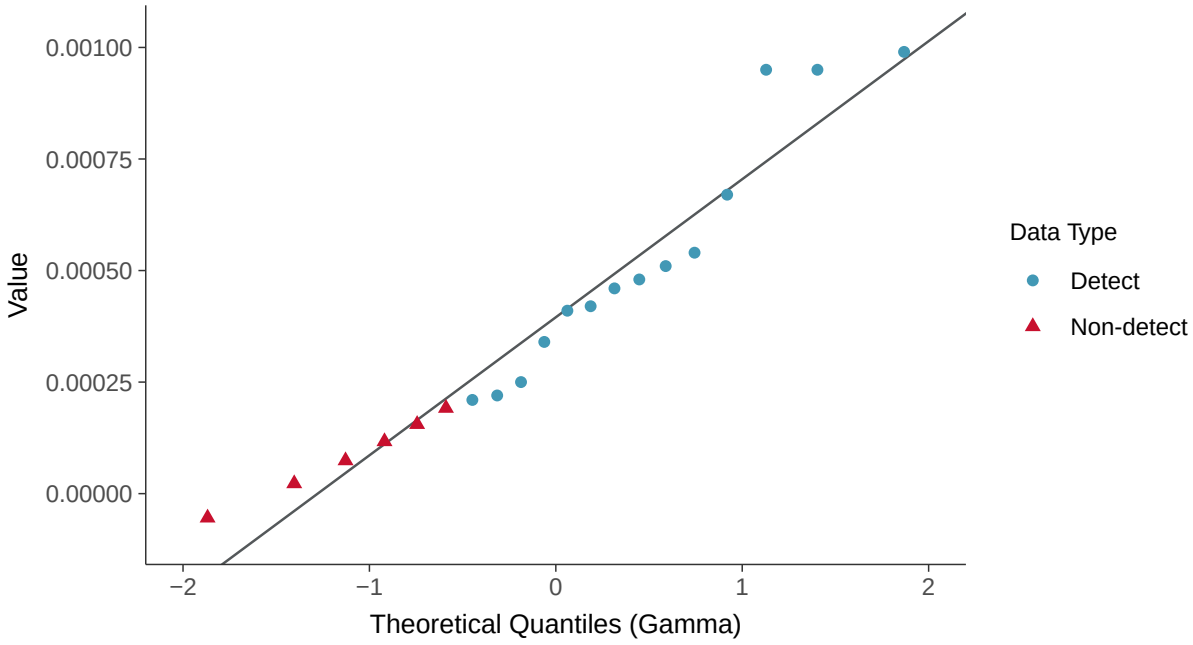
Lognormal Q-Q plot using ROS Imputed Estimates

Chromium, Total, MW-12 (mg/L)



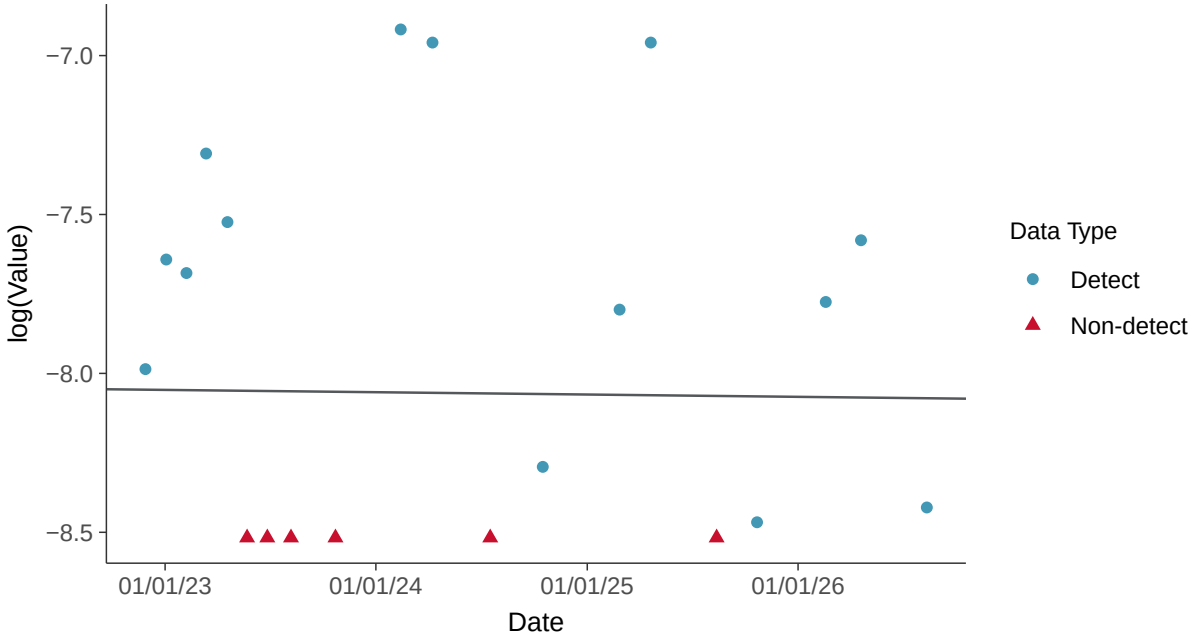
Gamma Q-Q plot using ROS Imputed Estimates

Chromium, Total, MW-12 (mg/L)



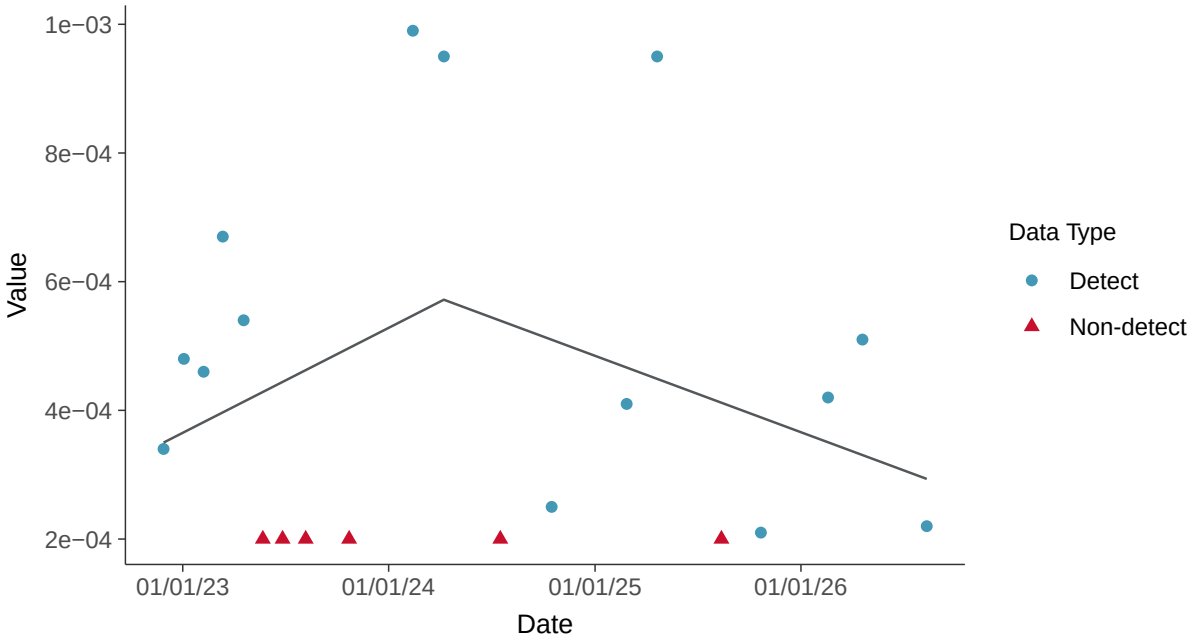
Trend Regression: Lognormal MLE

Chromium, Total, MW-12 (mg/L)



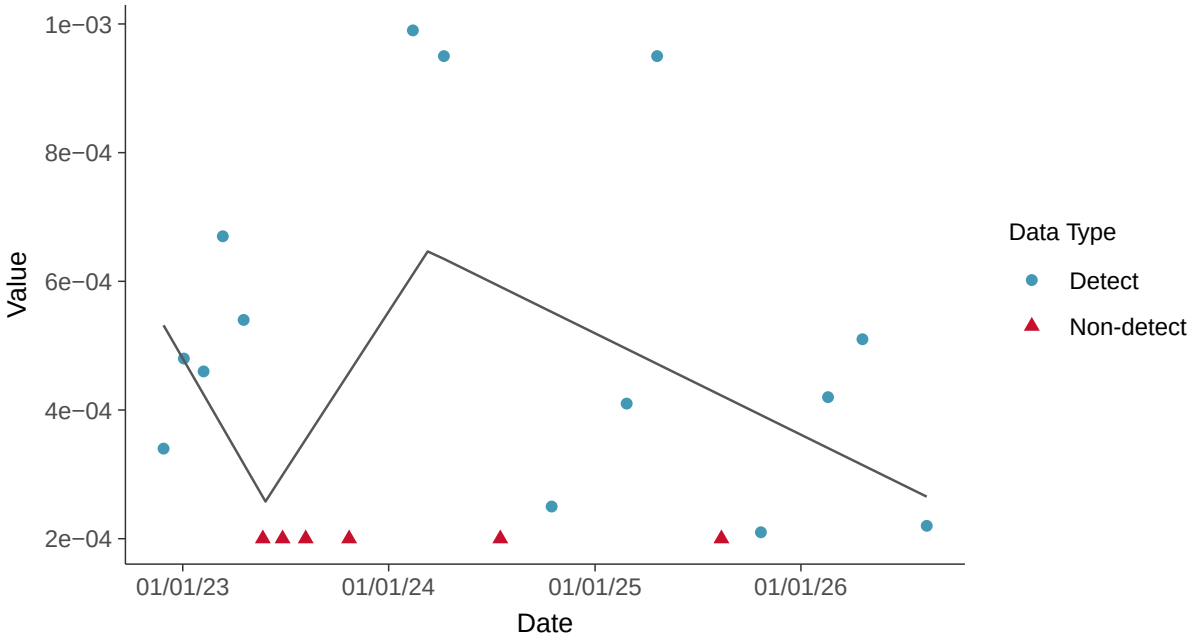
Trend Regression: Piecewise Linear-Linear

Chromium, Total, MW-12 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Chromium, Total, MW-12 (mg/L)

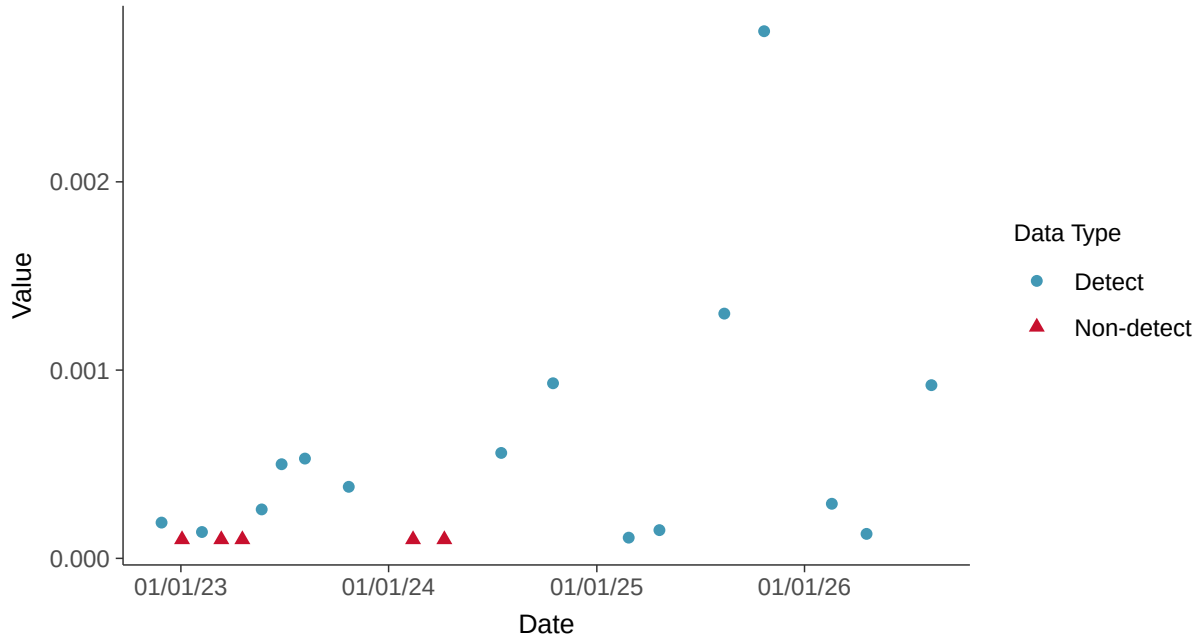


Appendix IV: Cobalt, MW-12

ID: 22_2_4_110

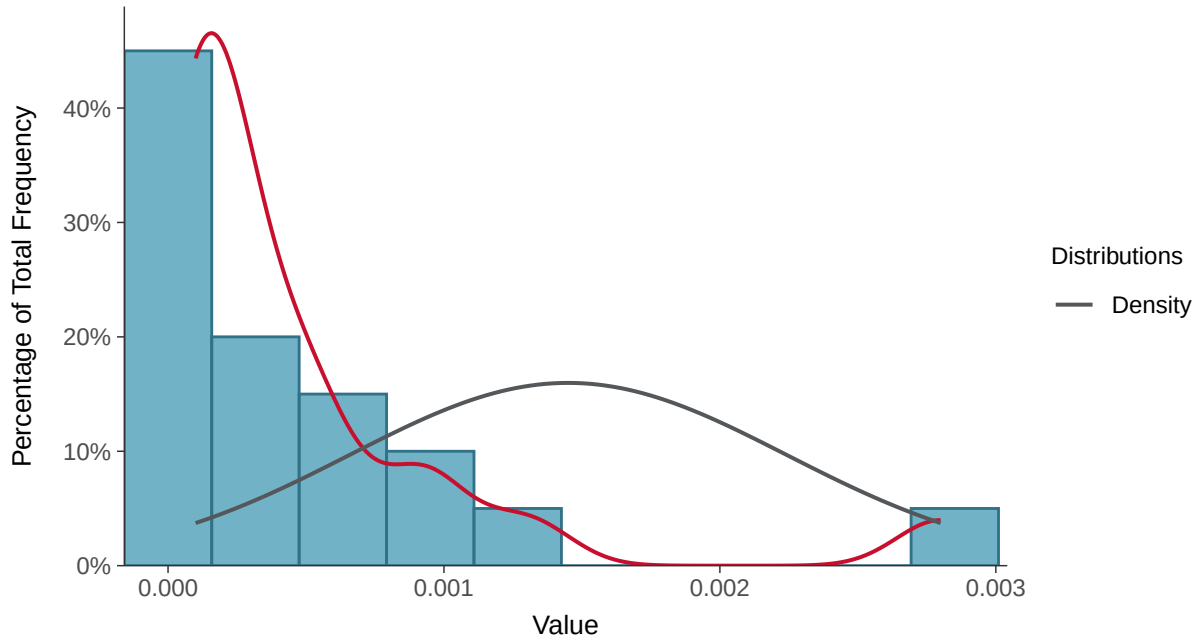
Scatter Plot

Cobalt, MW-12 (mg/L)



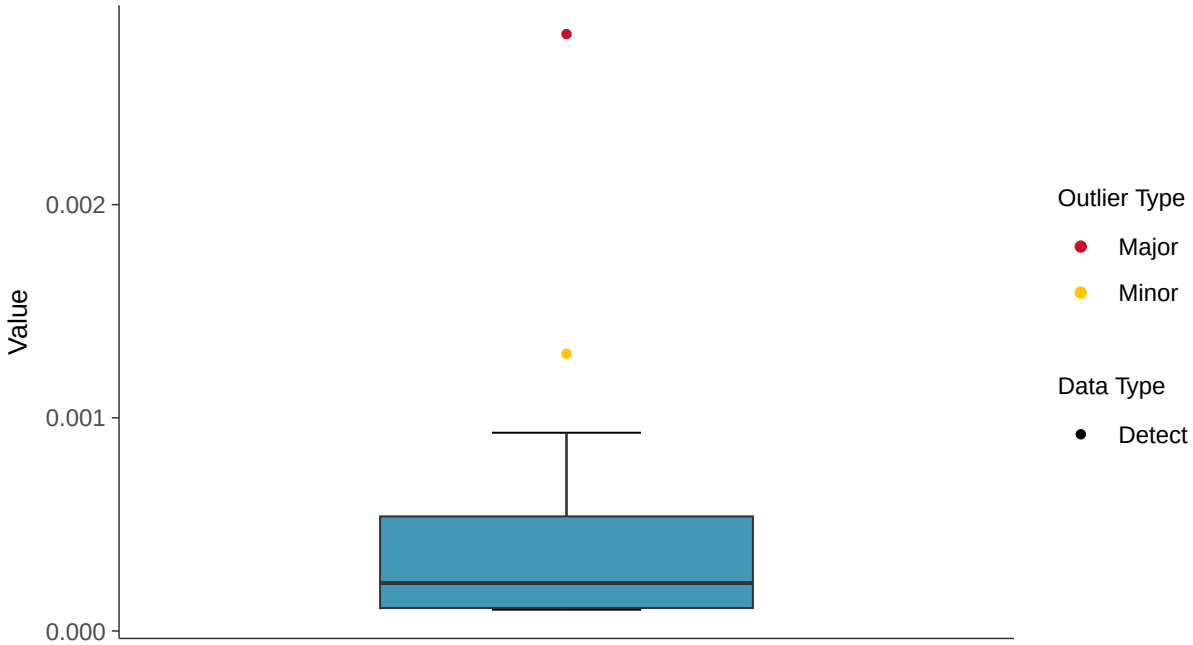
Histogram

Cobalt, MW-12 (mg/L)



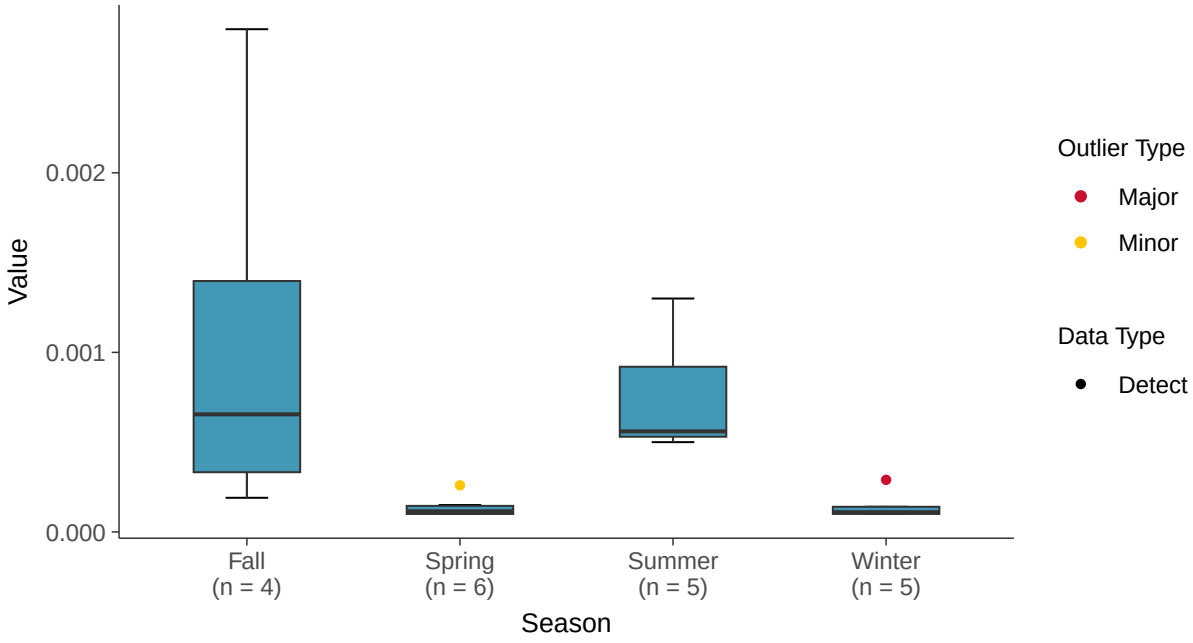
Boxplot

Cobalt, MW-12 (mg/L)



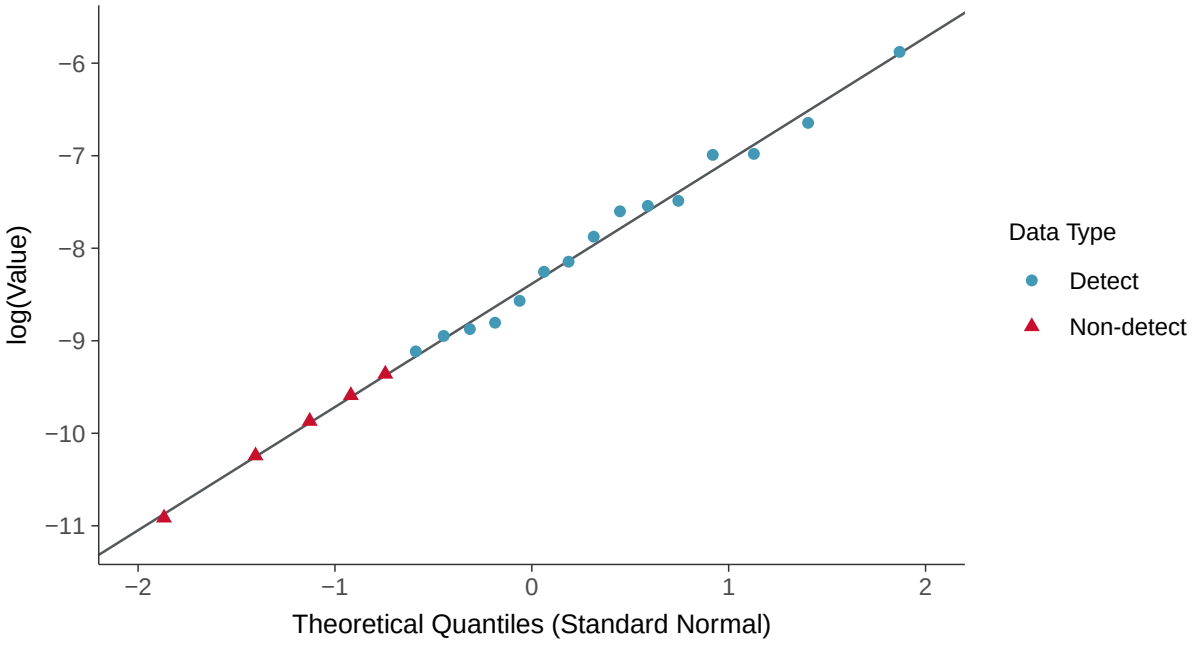
Boxplot by Season

Cobalt, MW-12 (mg/L)



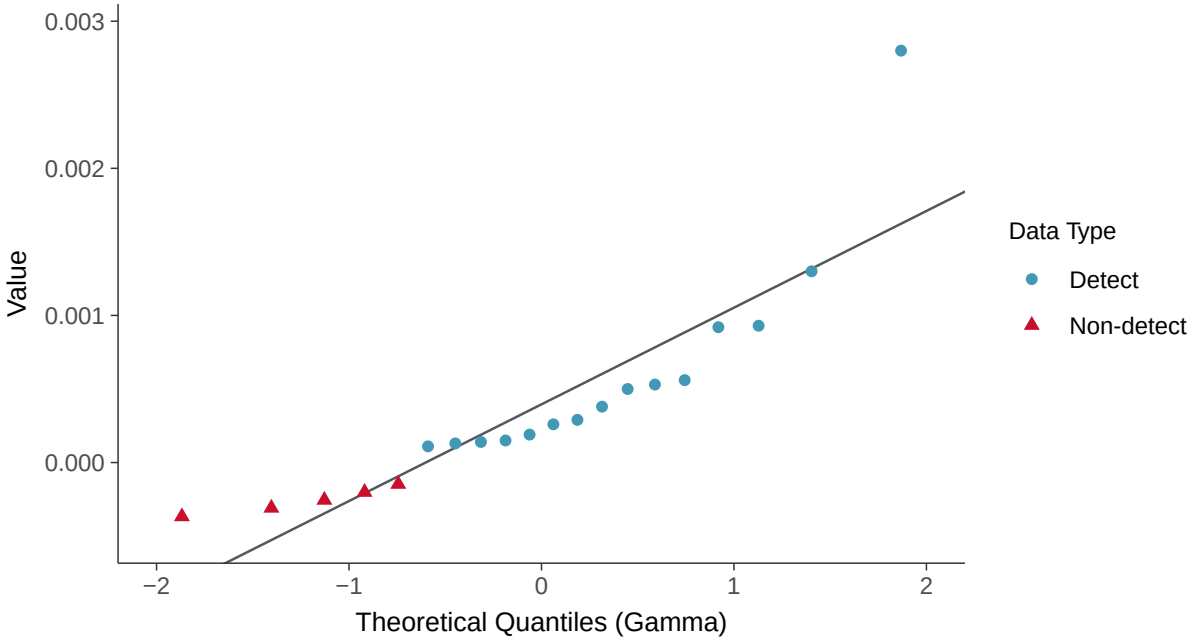
Lognormal Q-Q plot using ROS Imputed Estimates

Cobalt, MW-12 (mg/L)



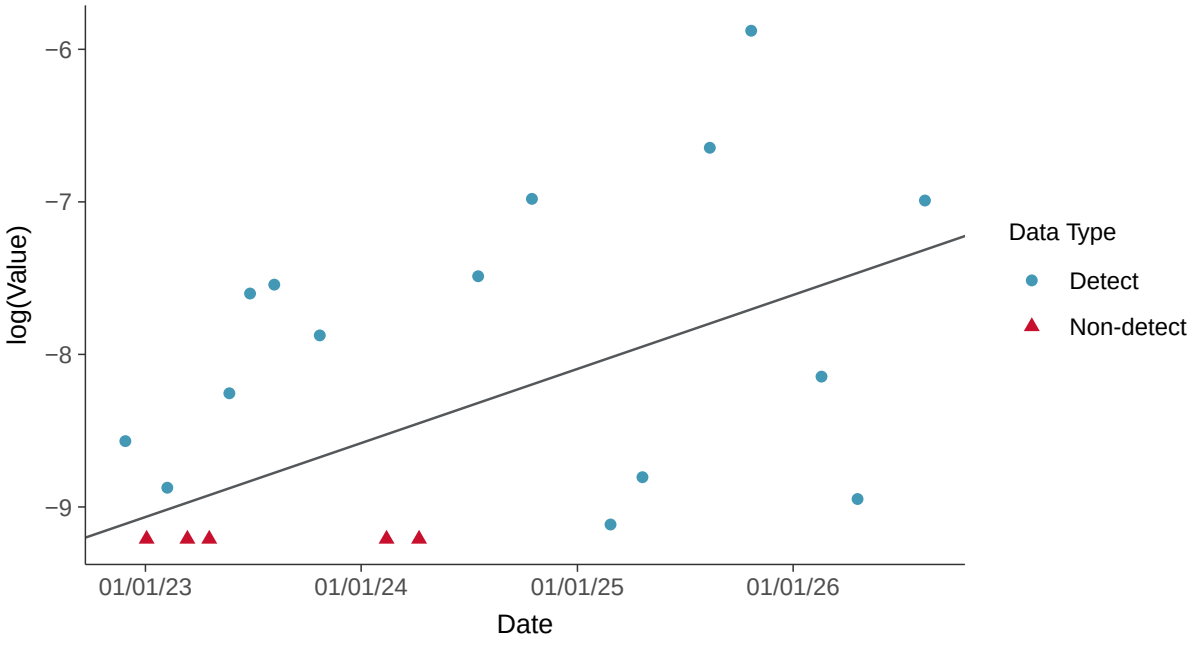
Gamma Q-Q plot using ROS Imputed Estimates

Cobalt, MW-12 (mg/L)



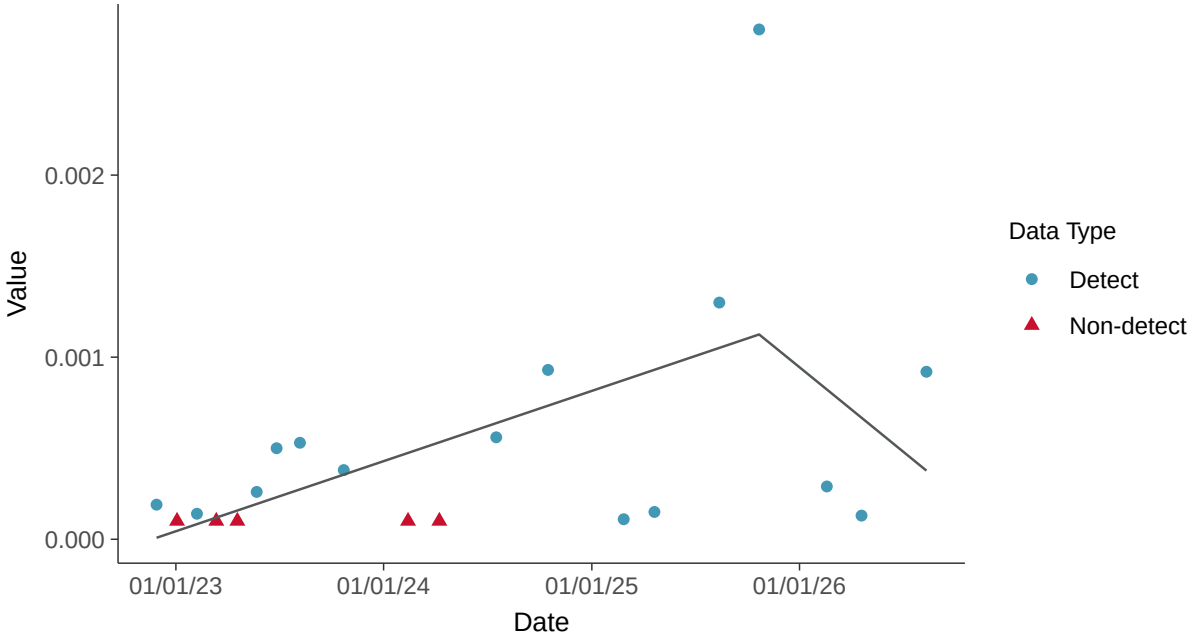
Trend Regression: Lognormal MLE

Cobalt, MW-12 (mg/L)



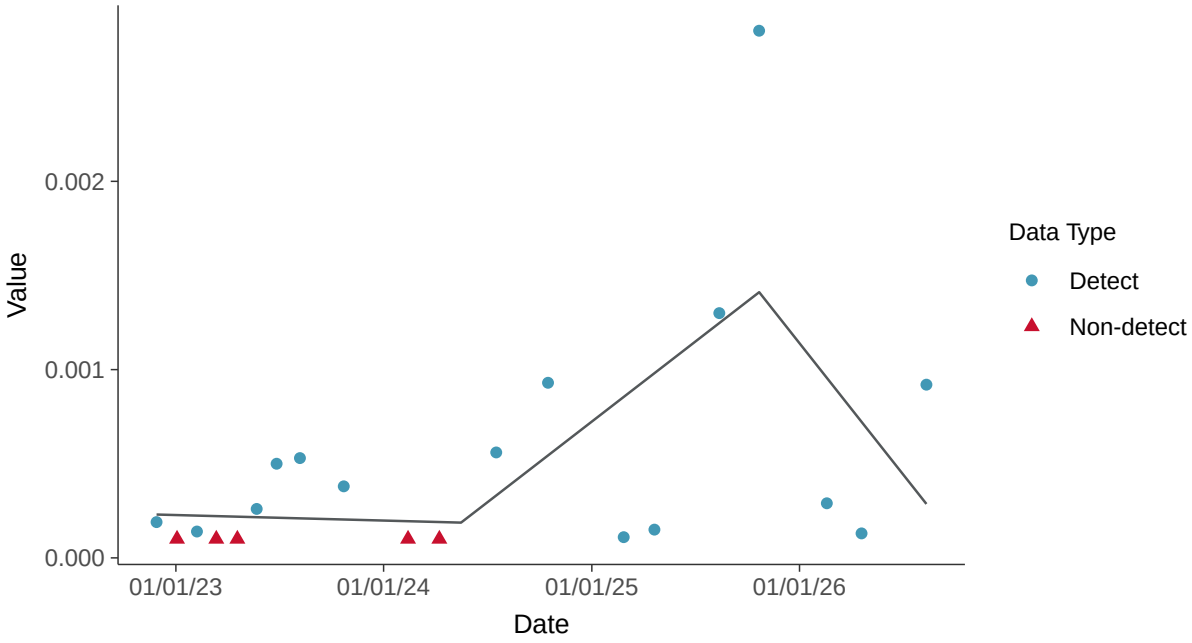
Trend Regression: Piecewise Linear-Linear

Cobalt, MW-12 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Cobalt, MW-12 (mg/L)

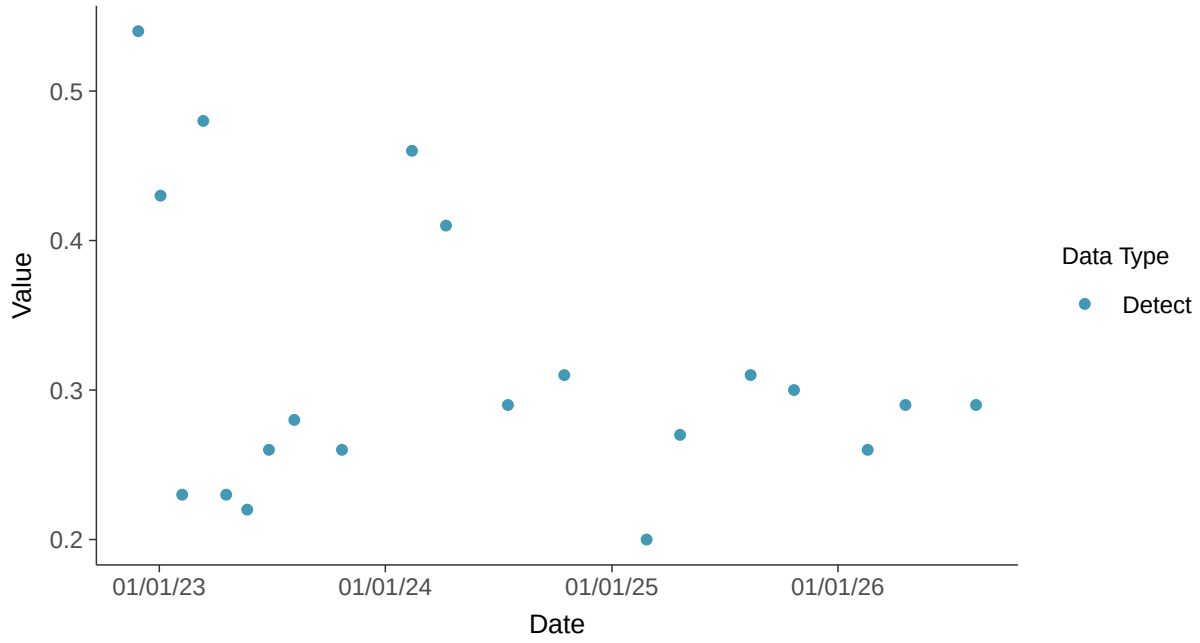


Appendix IV: Fluoride (App IV), MW-12

ID: 22_2_4_113

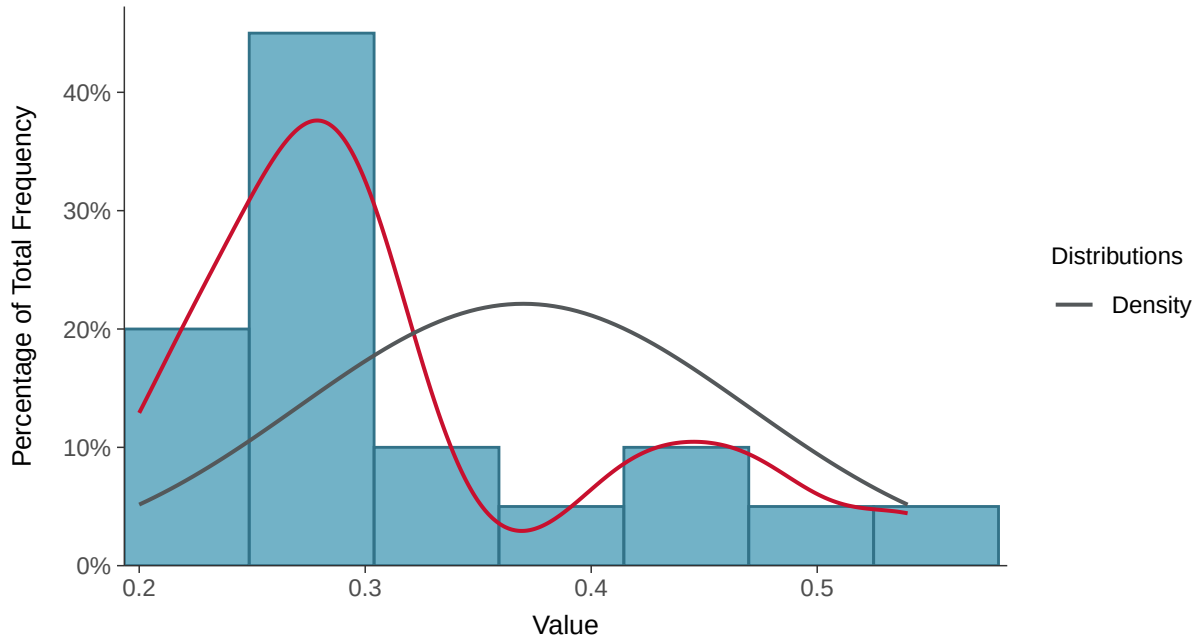
Scatter Plot

Fluoride (App IV), MW-12 (mg/L)



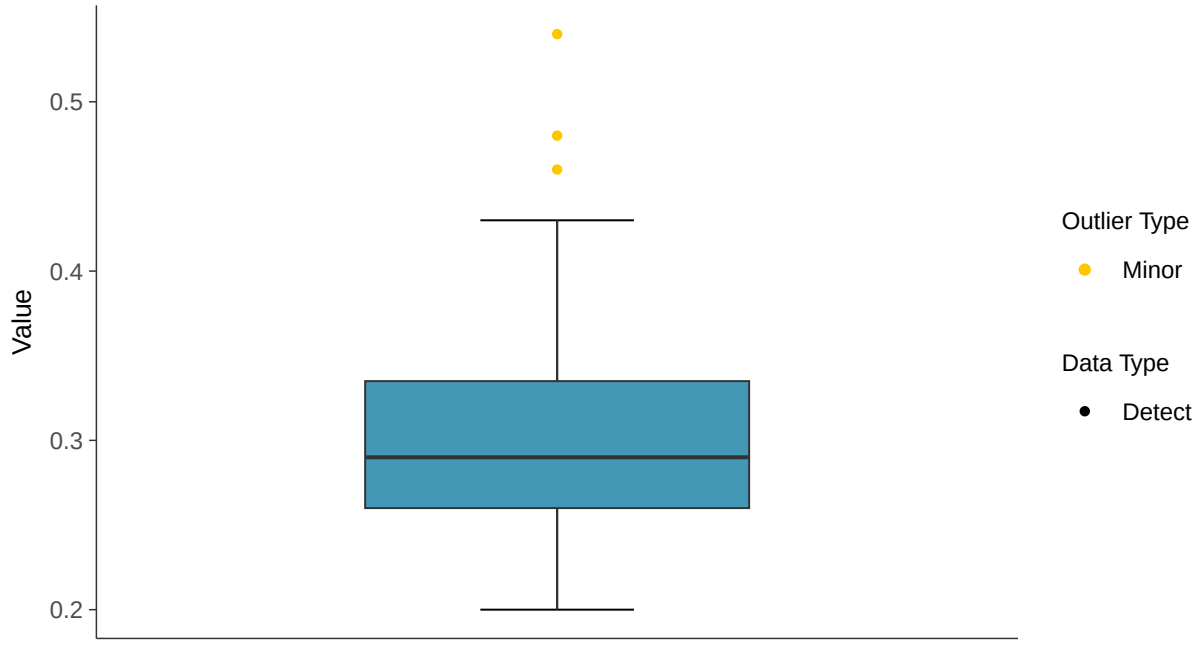
Histogram

Fluoride (App IV), MW-12 (mg/L)



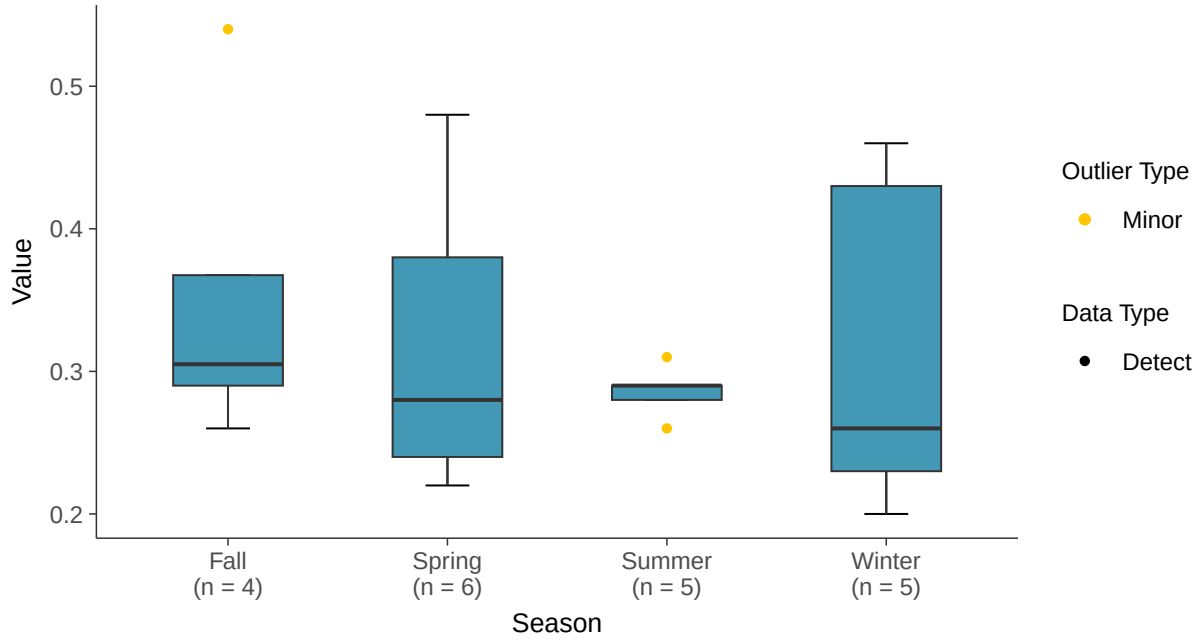
Boxplot

Fluoride (App IV), MW-12 (mg/L)



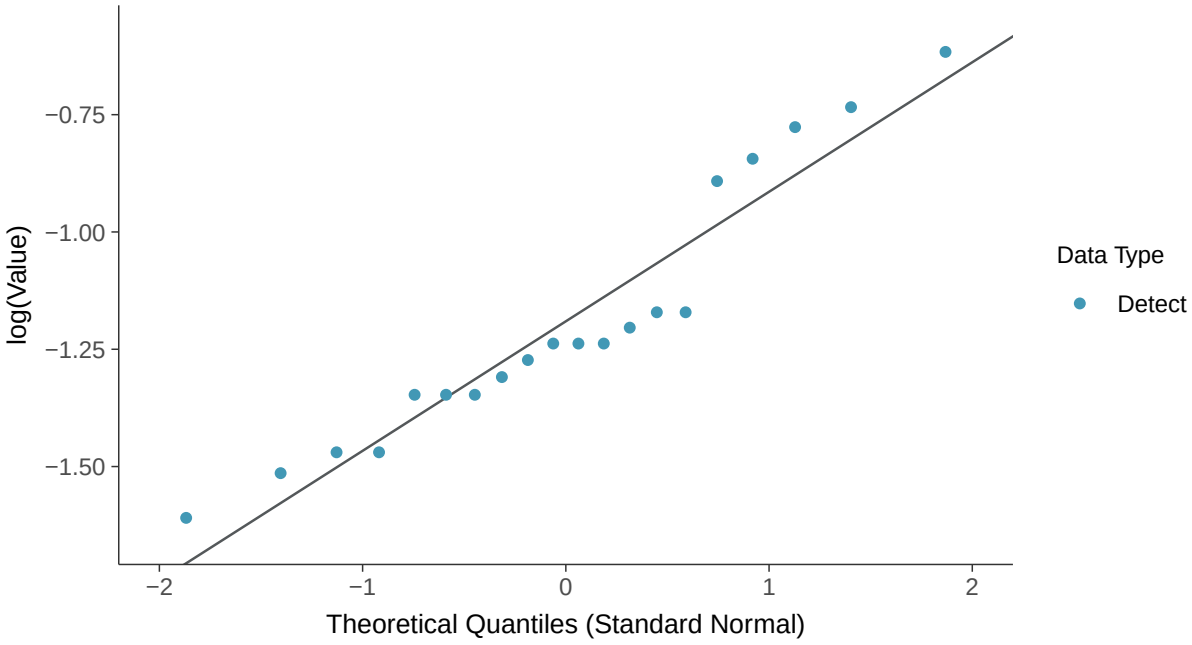
Boxplot by Season

Fluoride (App IV), MW-12 (mg/L)



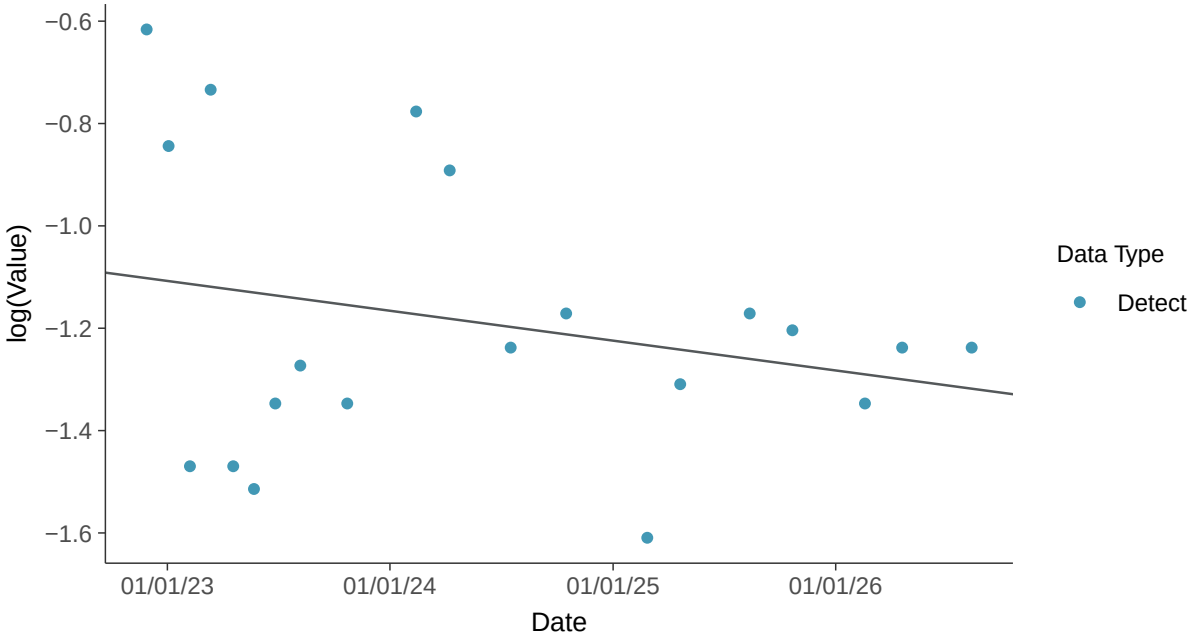
Lognormal Q-Q plot

Fluoride (App IV), MW-12 (mg/L)



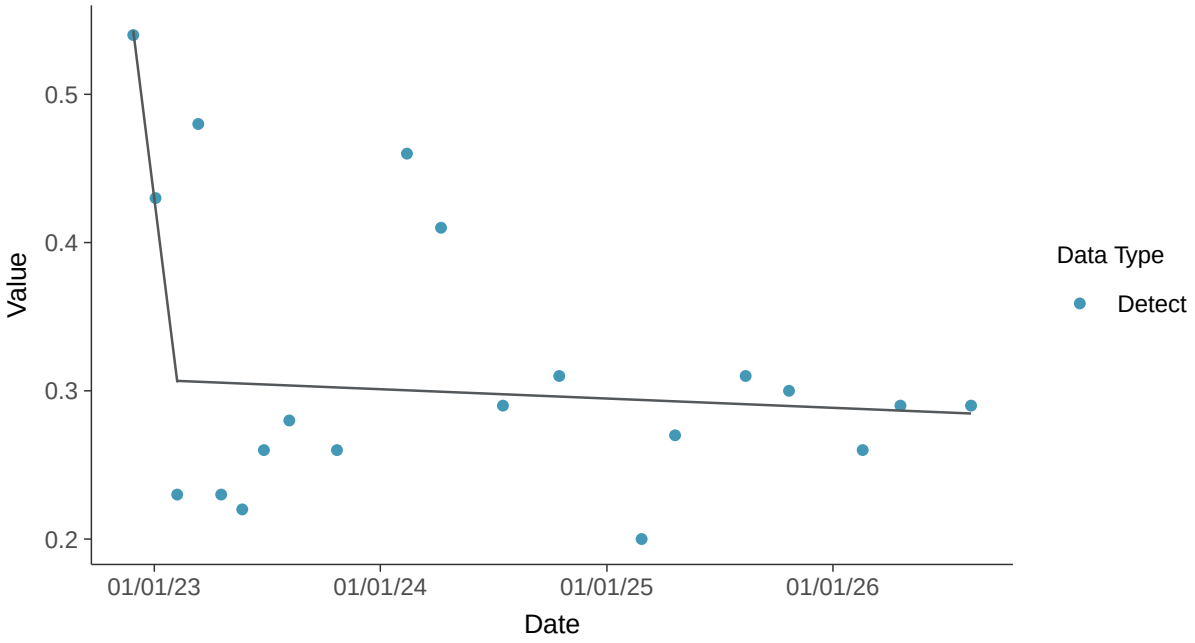
Trend Regression: Lognormal MLE

Fluoride (App IV), MW-12 (mg/L)



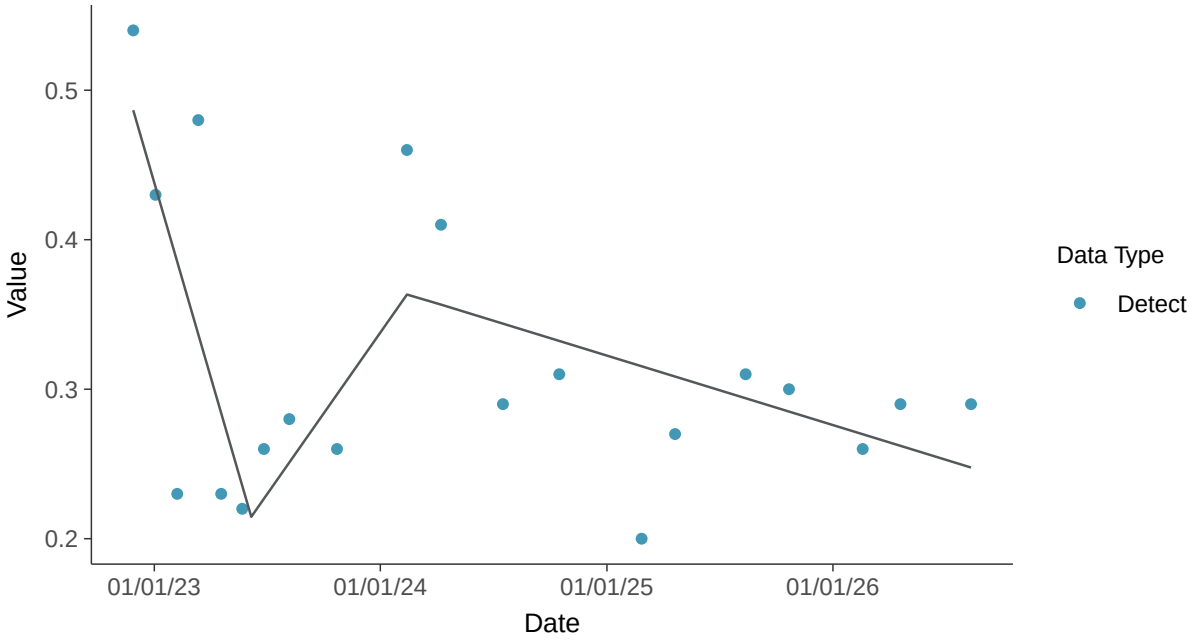
Trend Regression: Piecewise Linear-Linear

Fluoride (App IV), MW-12 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Fluoride (App IV), MW-12 (mg/L)

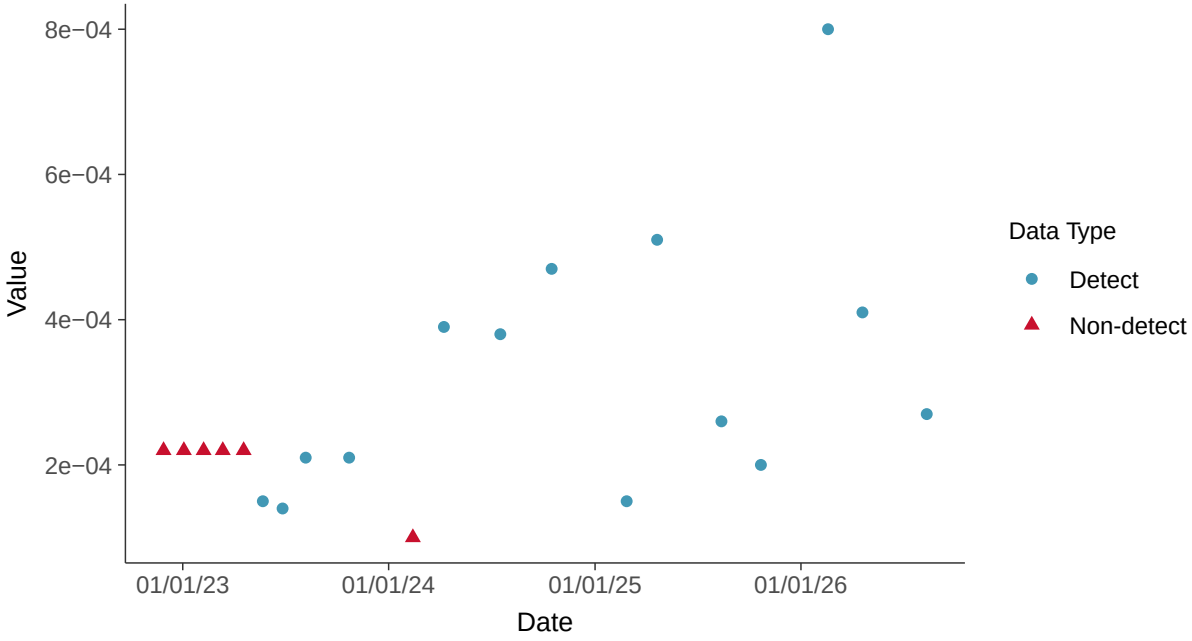


Appendix IV: Lead, MW-12

ID: 22_2_4_115

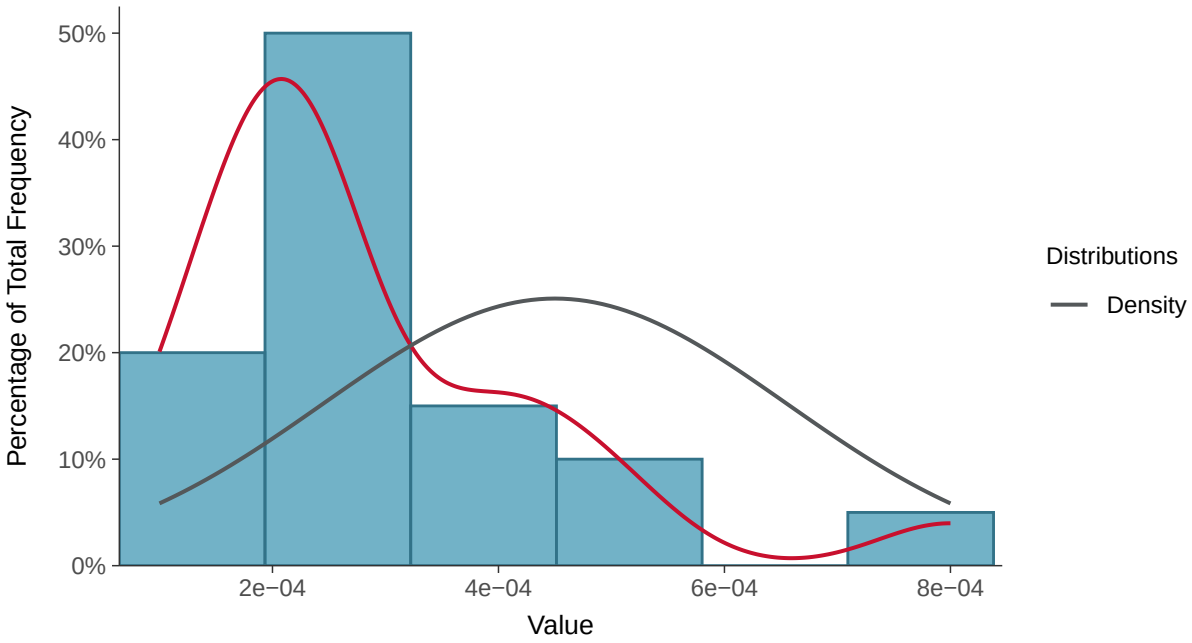
Scatter Plot

Lead, MW-12 (mg/L)



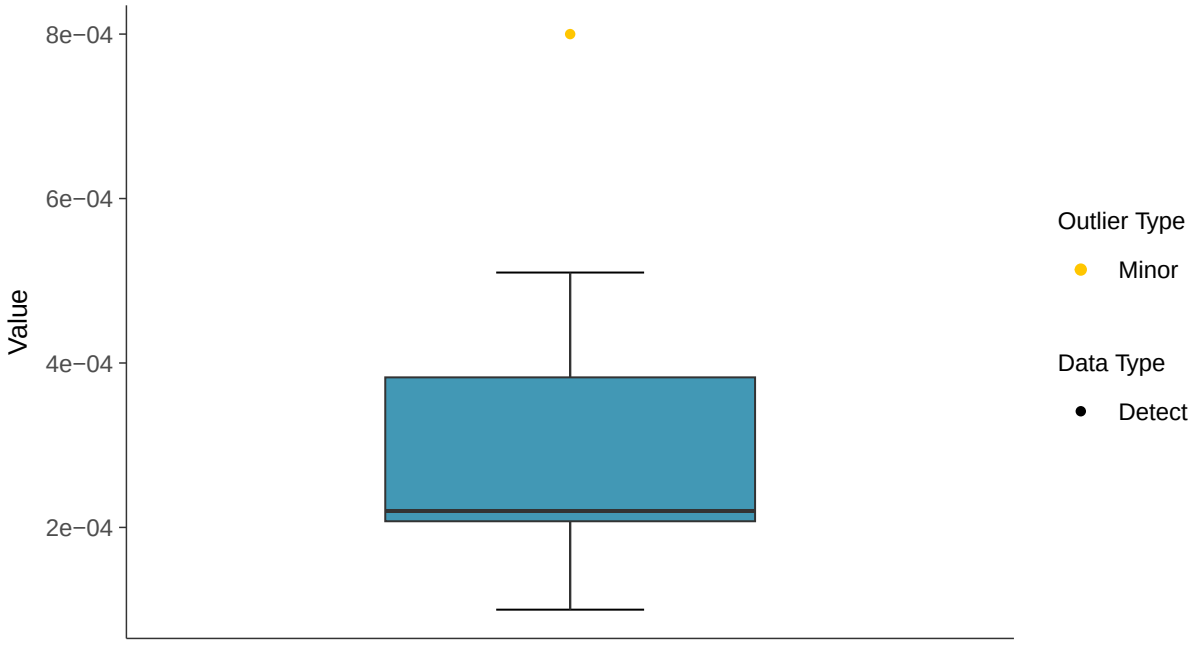
Histogram

Lead, MW-12 (mg/L)



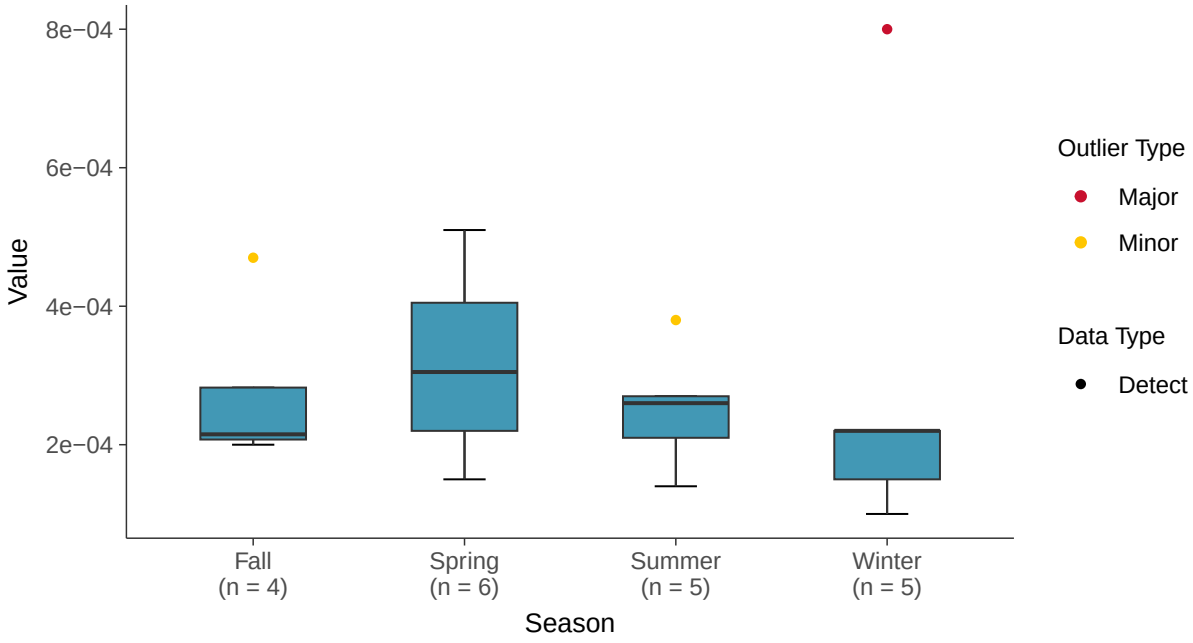
Boxplot

Lead, MW-12 (mg/L)



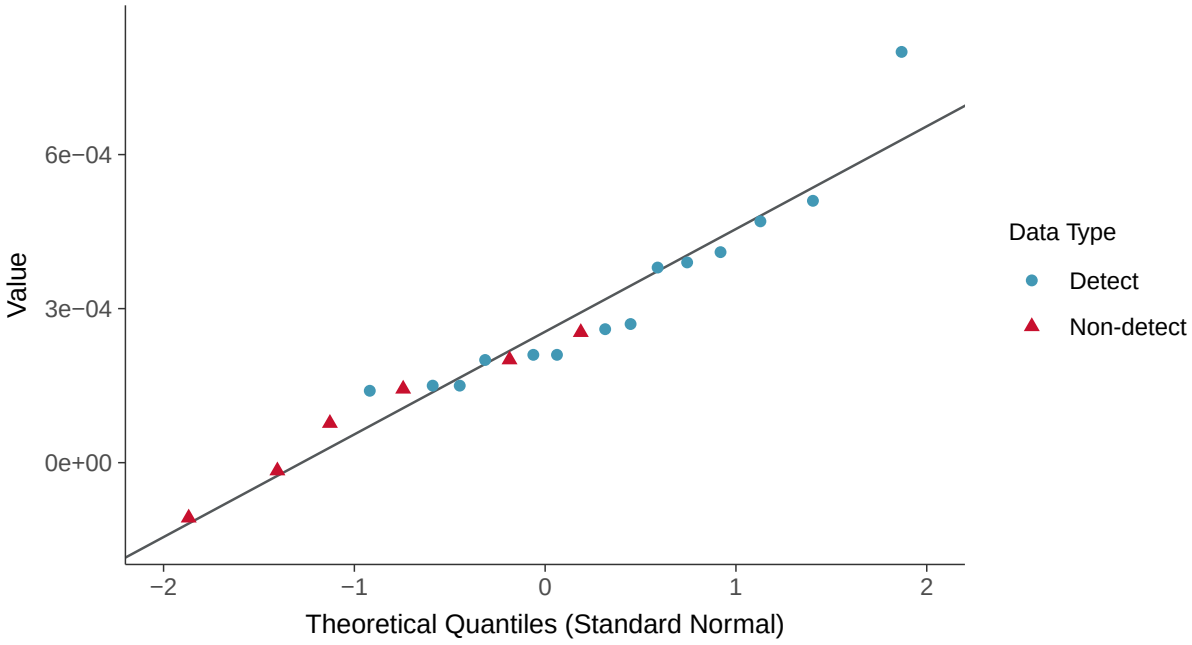
Boxplot by Season

Lead, MW-12 (mg/L)



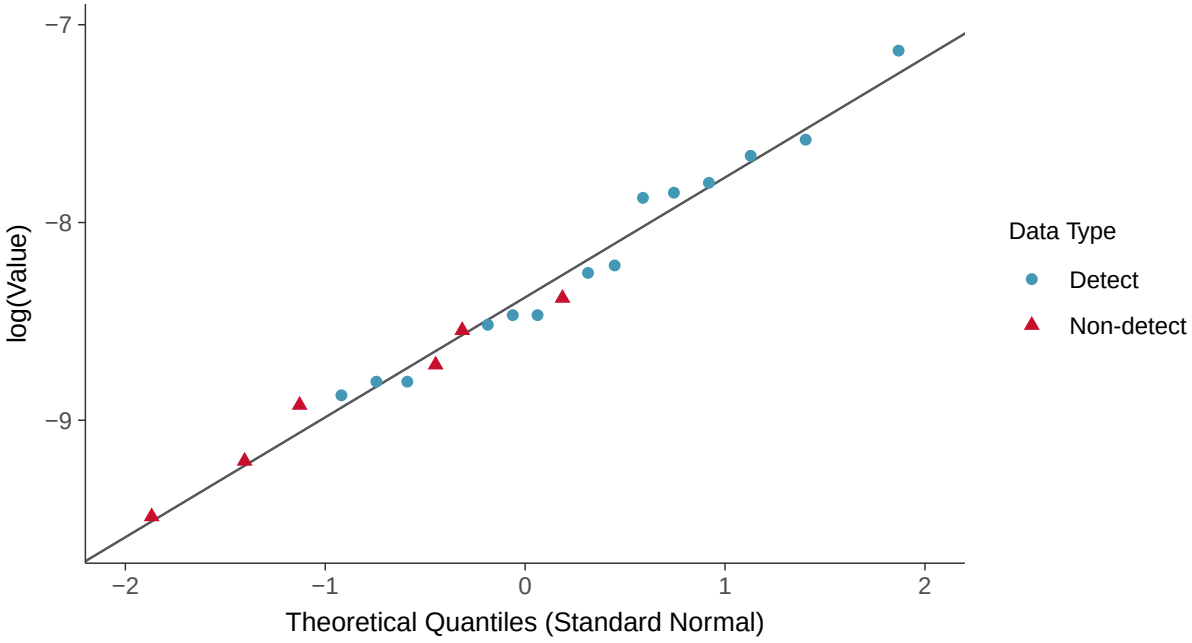
Normal Q-Q plot using ROS Imputed Estimates

Lead, MW-12 (mg/L)



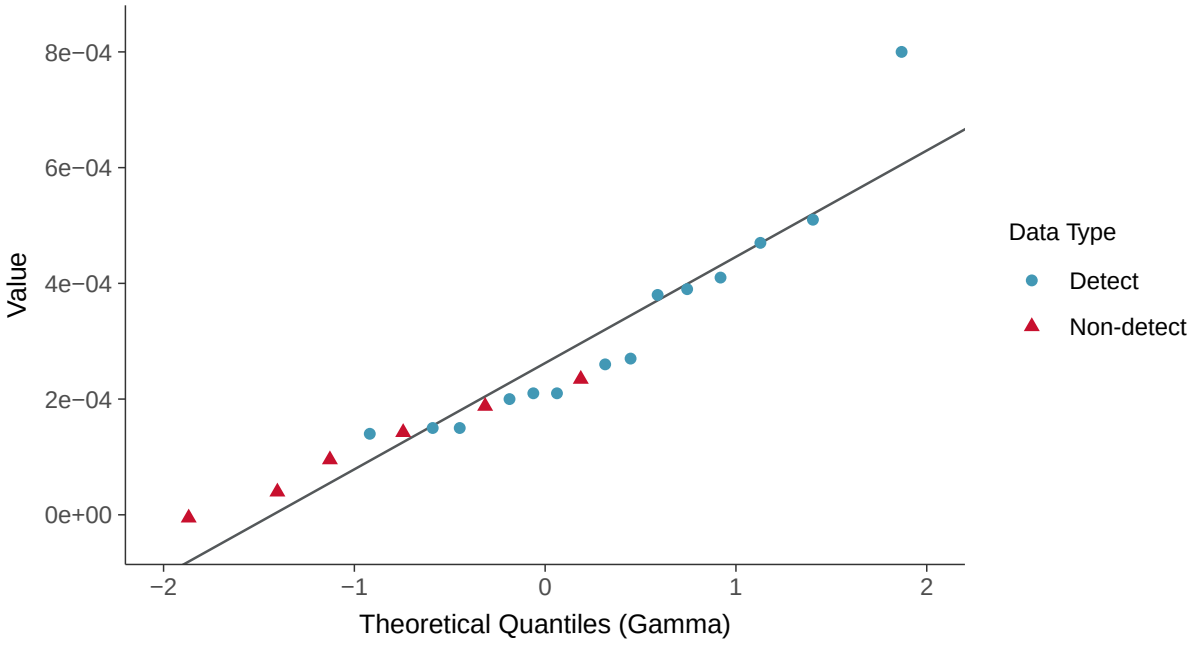
Lognormal Q-Q plot using ROS Imputed Estimates

Lead, MW-12 (mg/L)



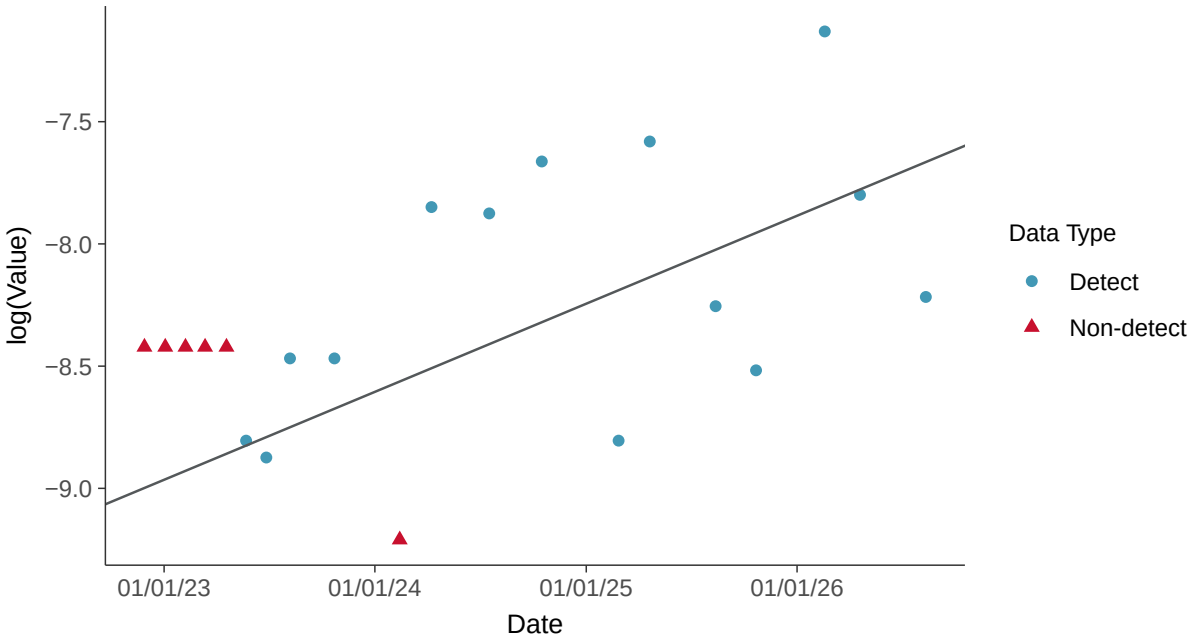
Gamma Q-Q plot using ROS Imputed Estimates

Lead, MW-12 (mg/L)



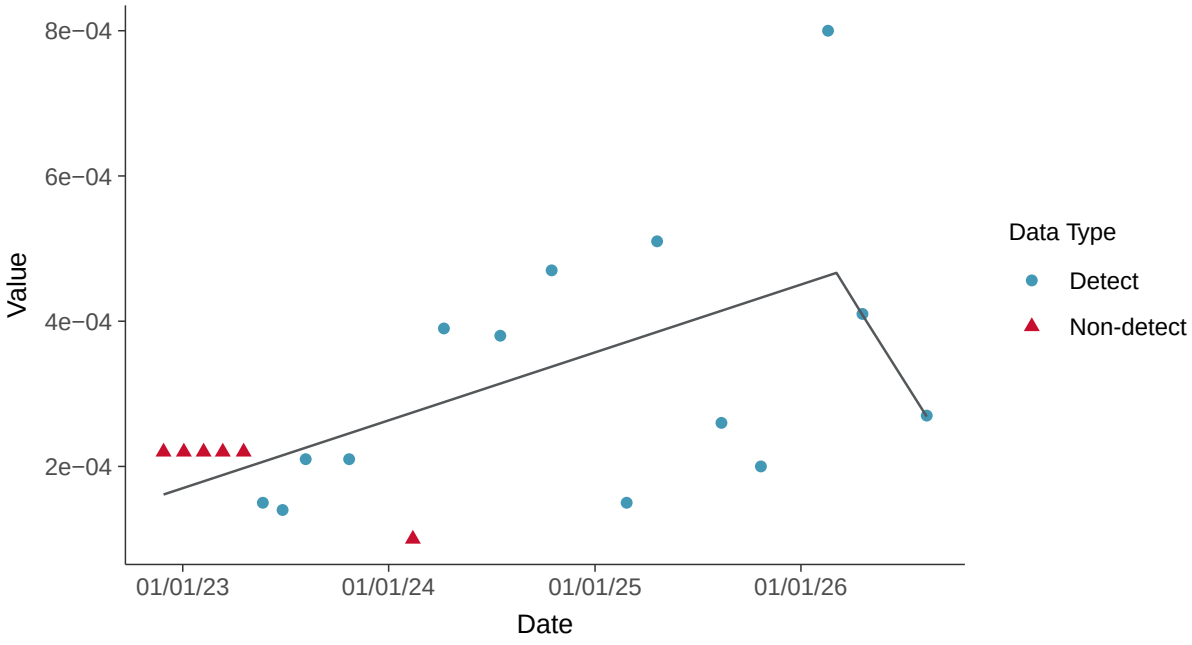
Trend Regression: Lognormal MLE

Lead, MW-12 (mg/L)



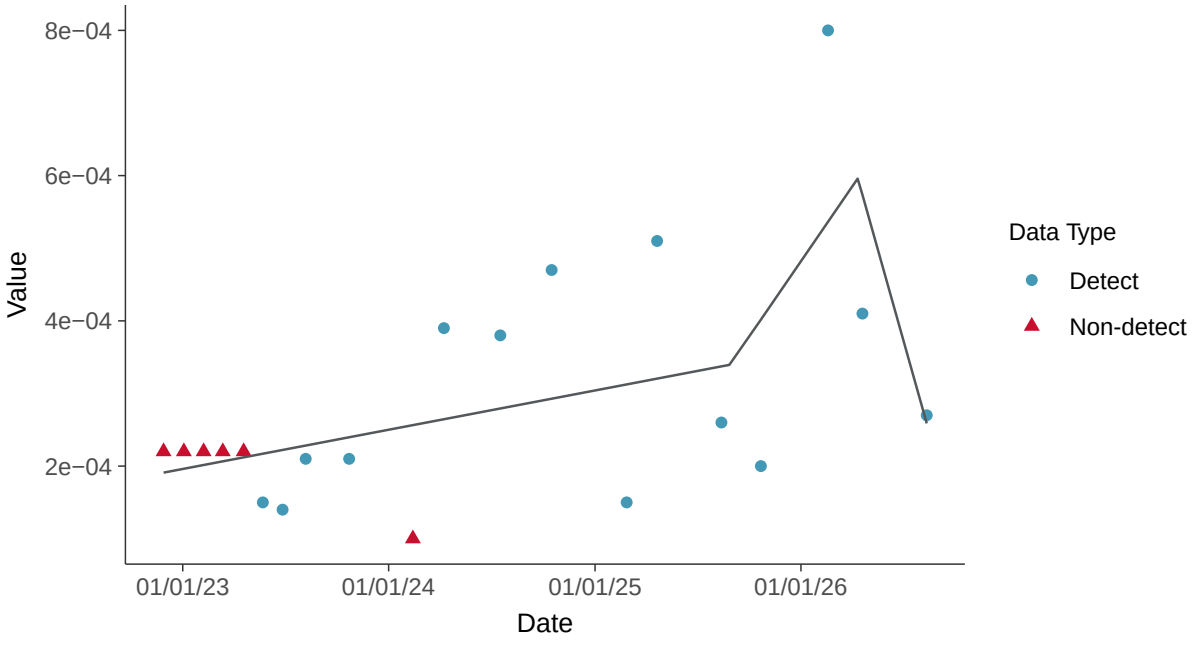
Trend Regression: Piecewise Linear-Linear

Lead, MW-12 (mg/L)



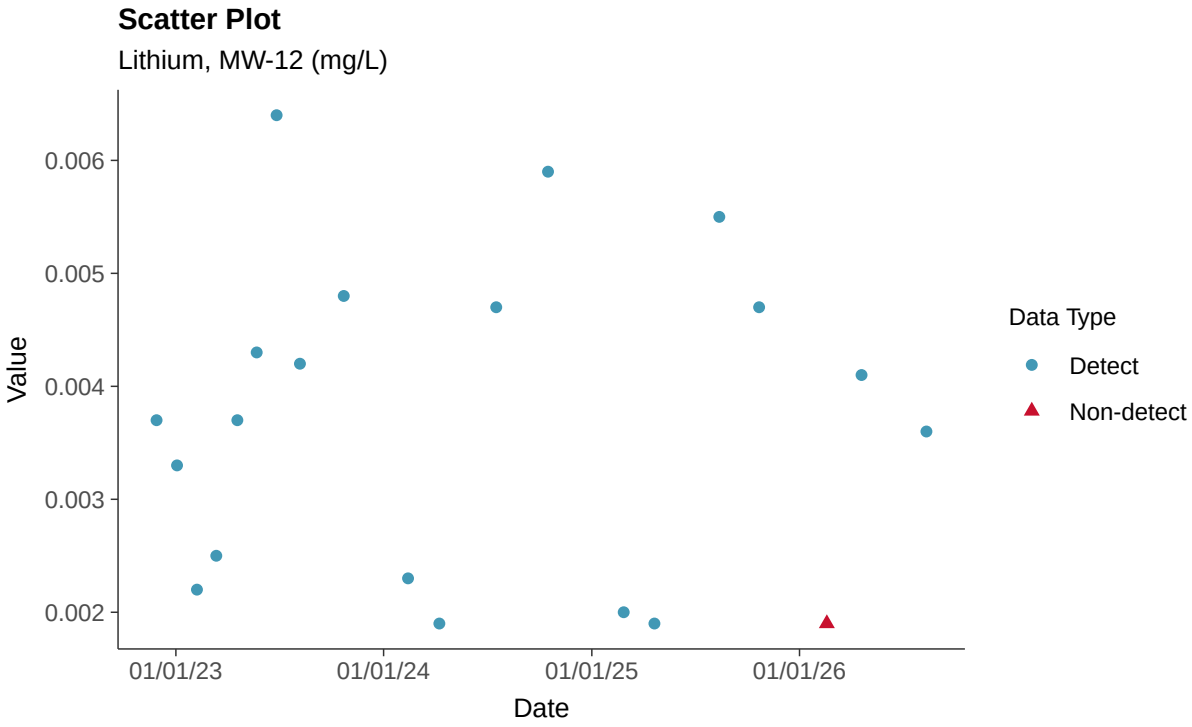
Trend Regression: Piecewise Linear-Linear-Linear

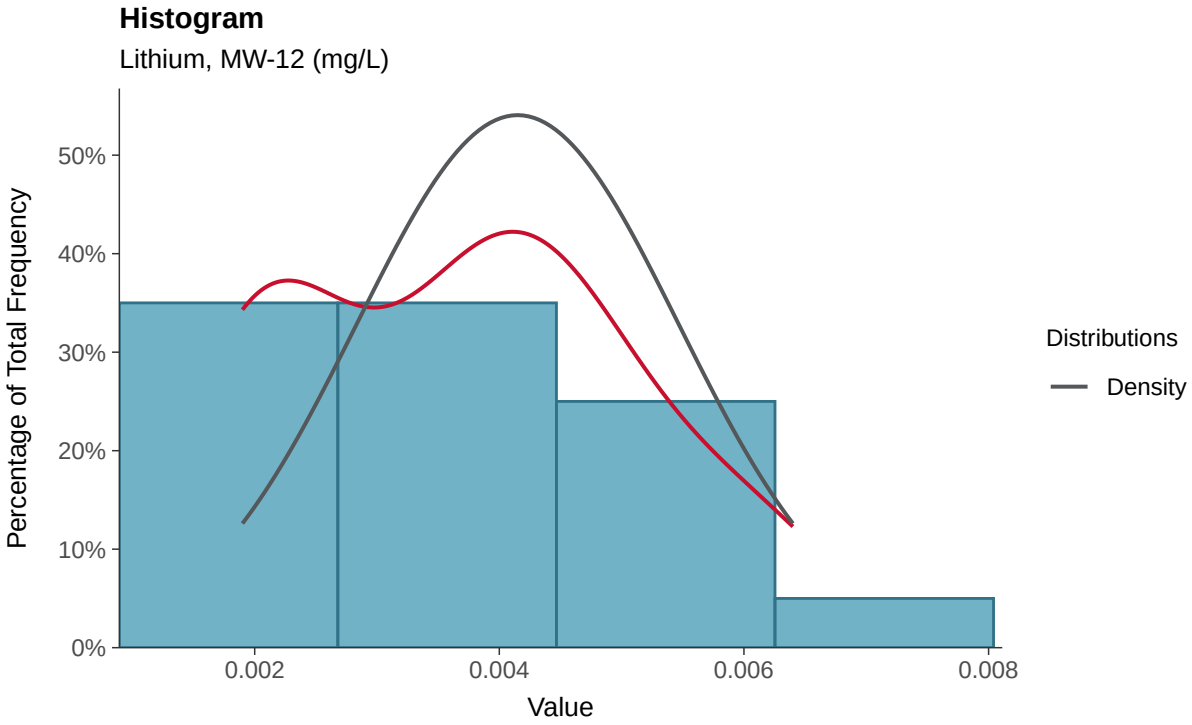
Lead, MW-12 (mg/L)



Appendix IV: Lithium, MW-12

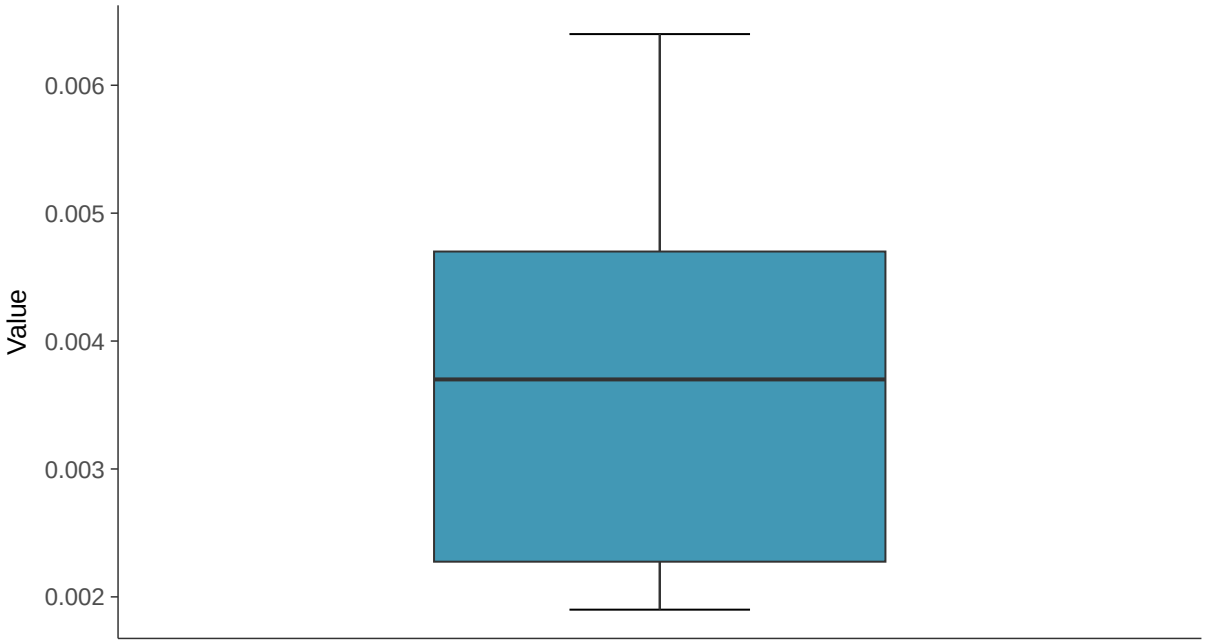
ID: 22_2_4_116





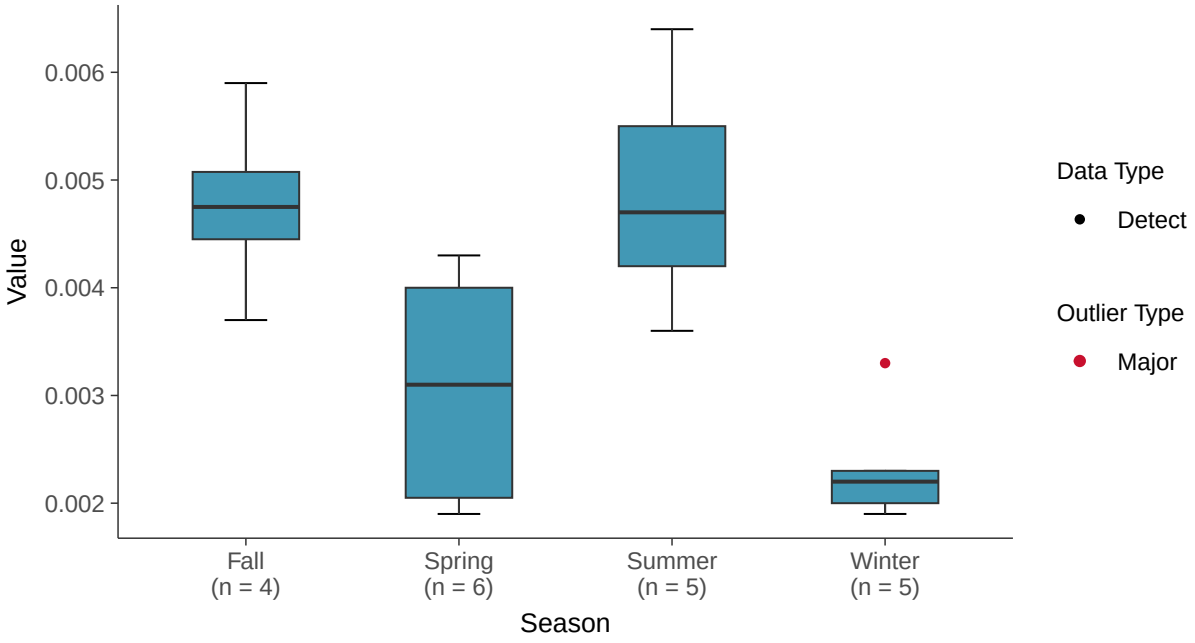
Boxplot

Lithium, MW-12 (mg/L)



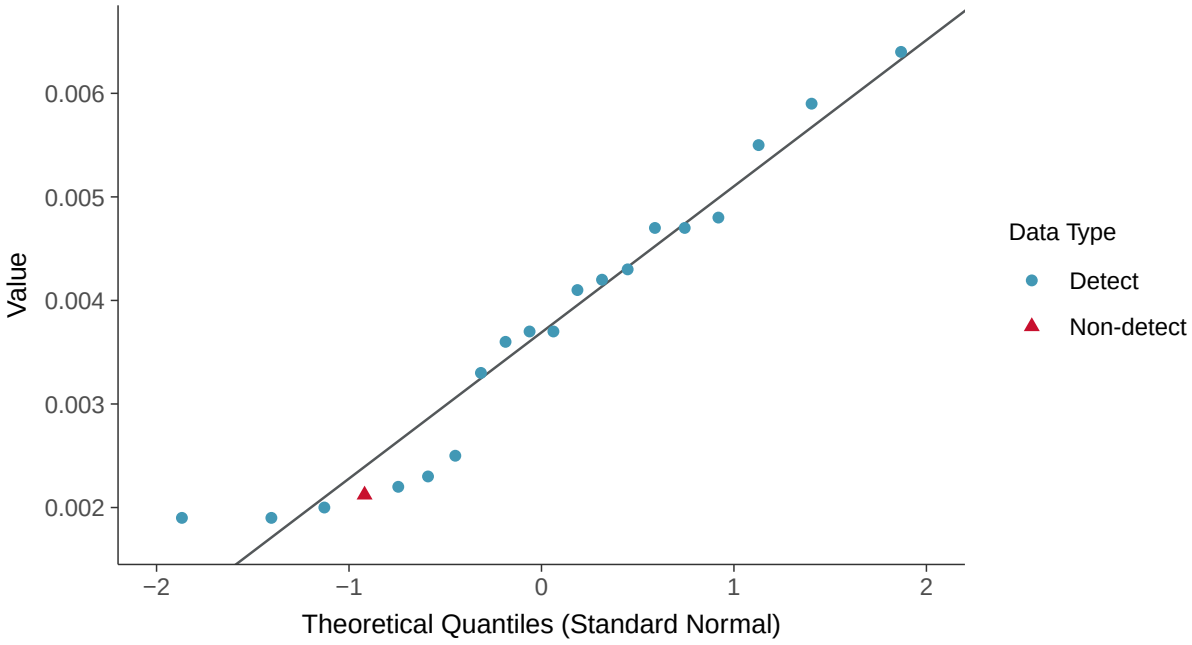
Boxplot by Season

Lithium, MW-12 (mg/L)



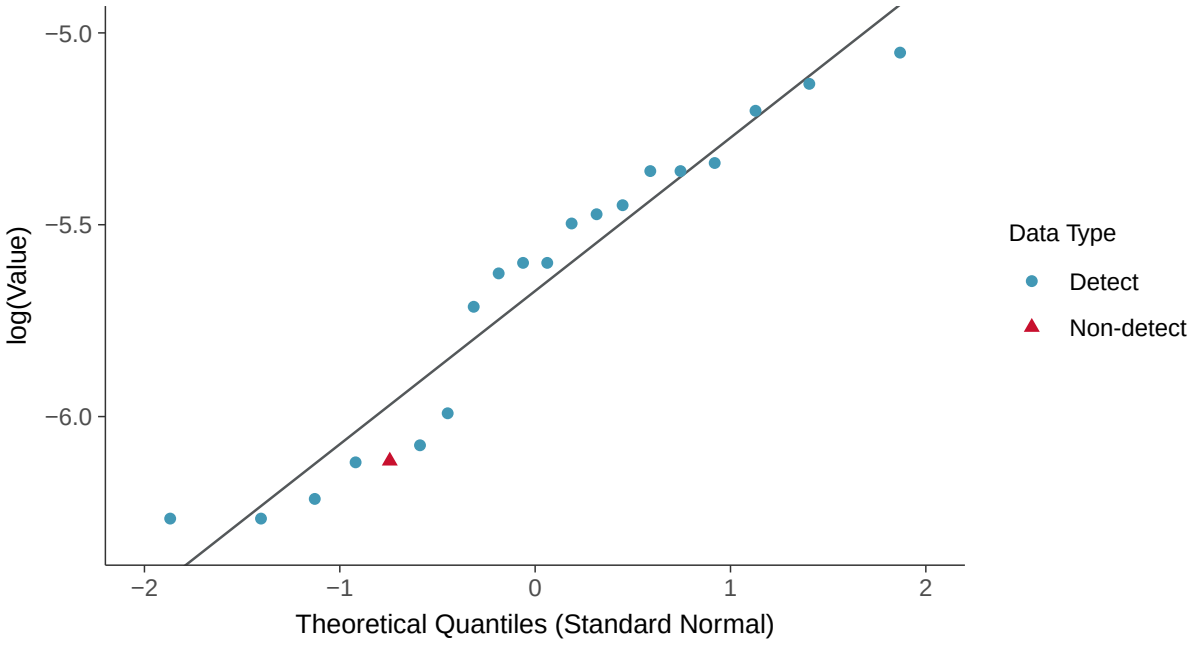
Normal Q-Q plot using ROS Imputed Estimates

Lithium, MW-12 (mg/L)



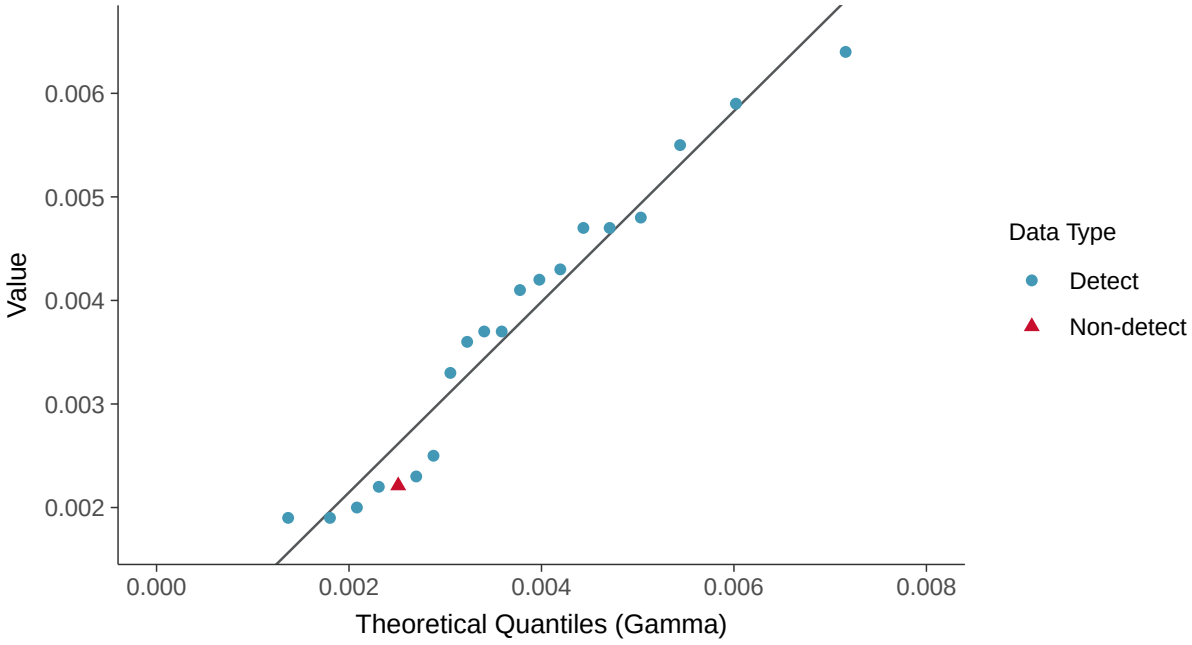
Lognormal Q-Q plot using ROS Imputed Estimates

Lithium, MW-12 (mg/L)



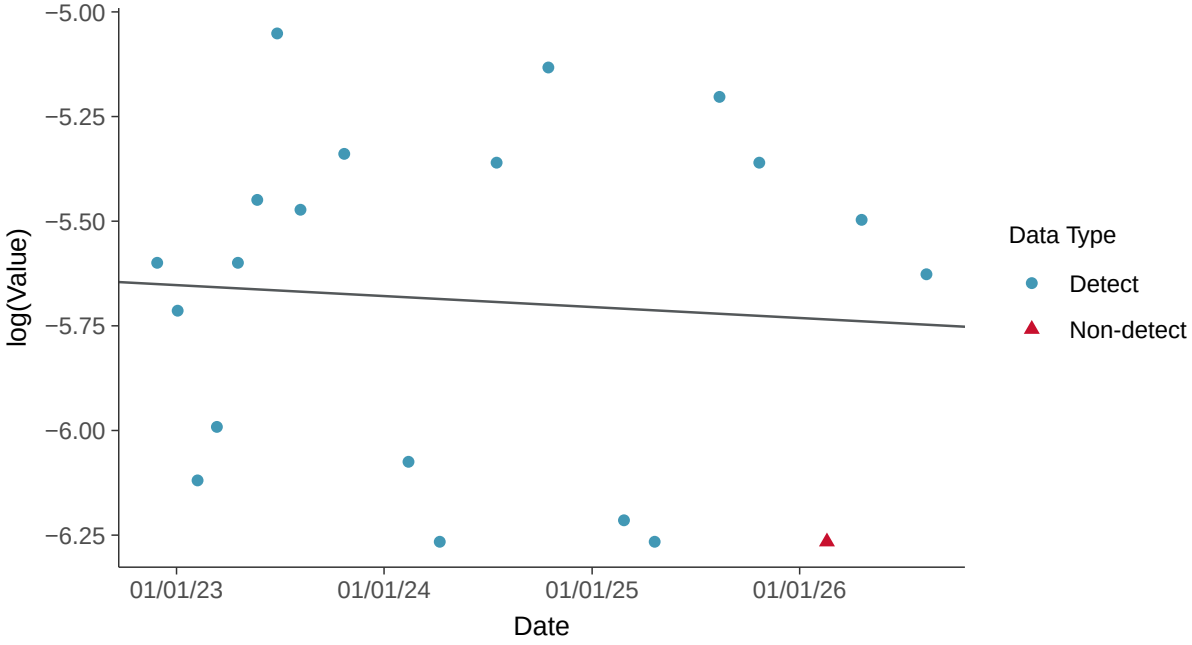
Gamma Q-Q plot using ROS Imputed Estimates

Lithium, MW-12 (mg/L)



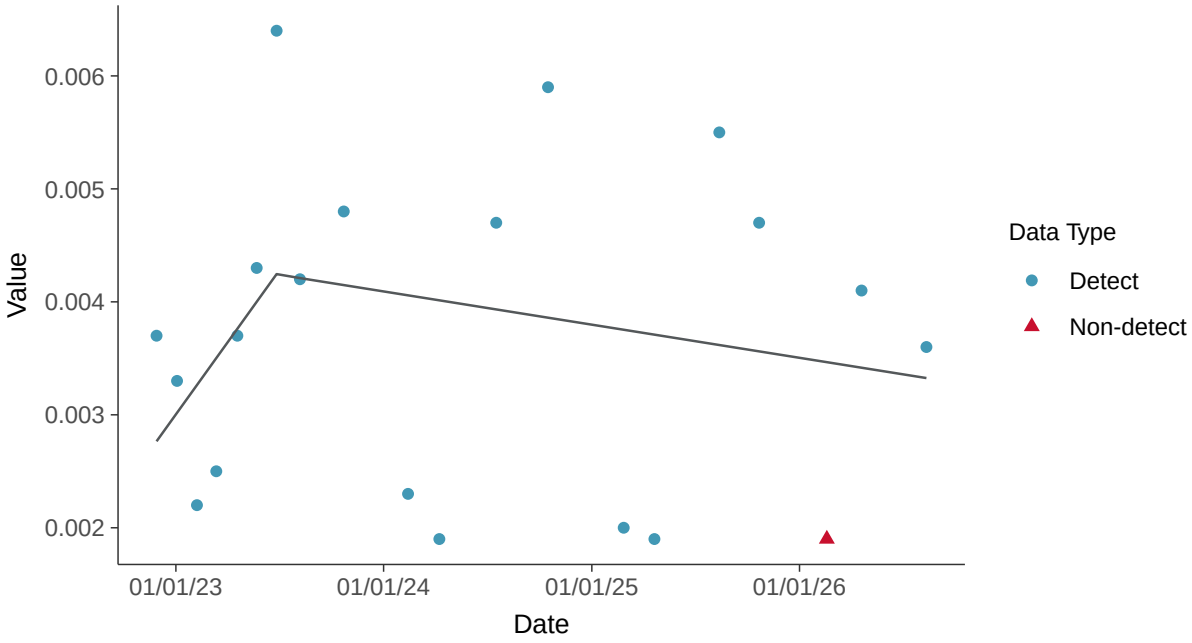
Trend Regression: Lognormal MLE

Lithium, MW-12 (mg/L)



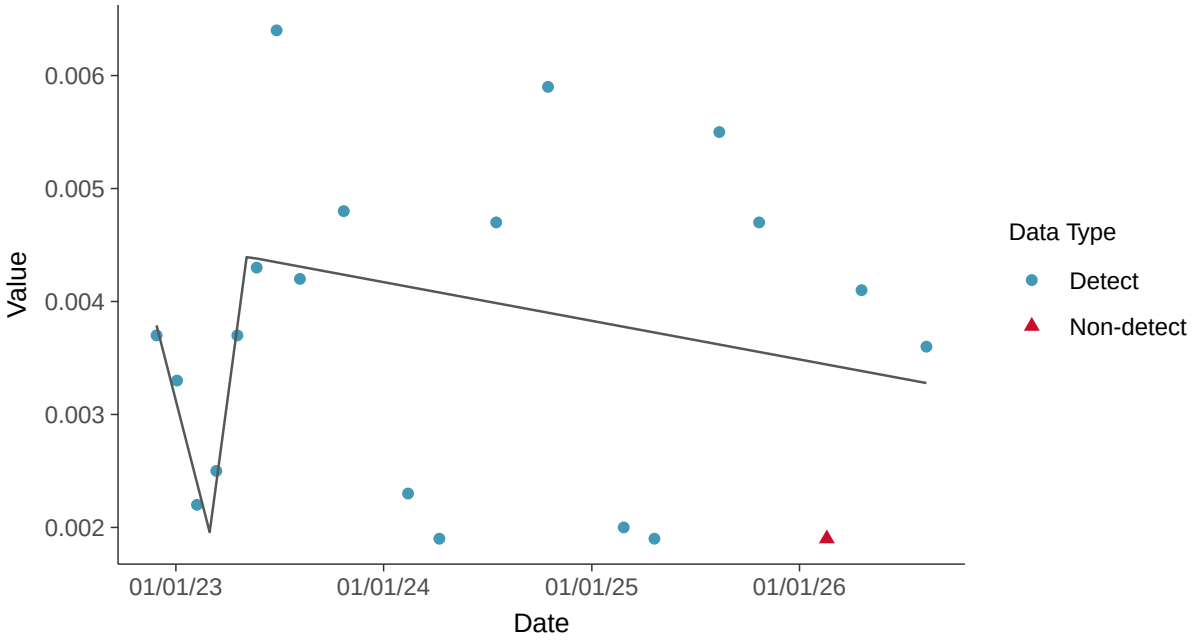
Trend Regression: Piecewise Linear-Linear

Lithium, MW-12 (mg/L)



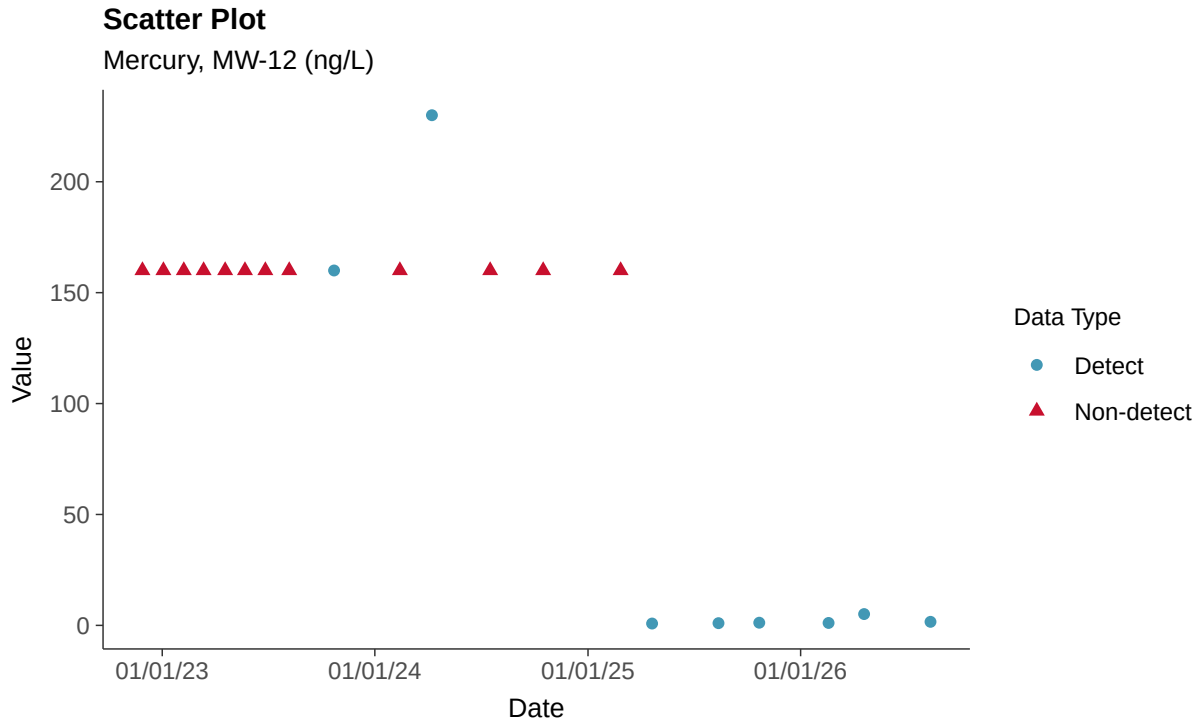
Trend Regression: Piecewise Linear-Linear-Linear

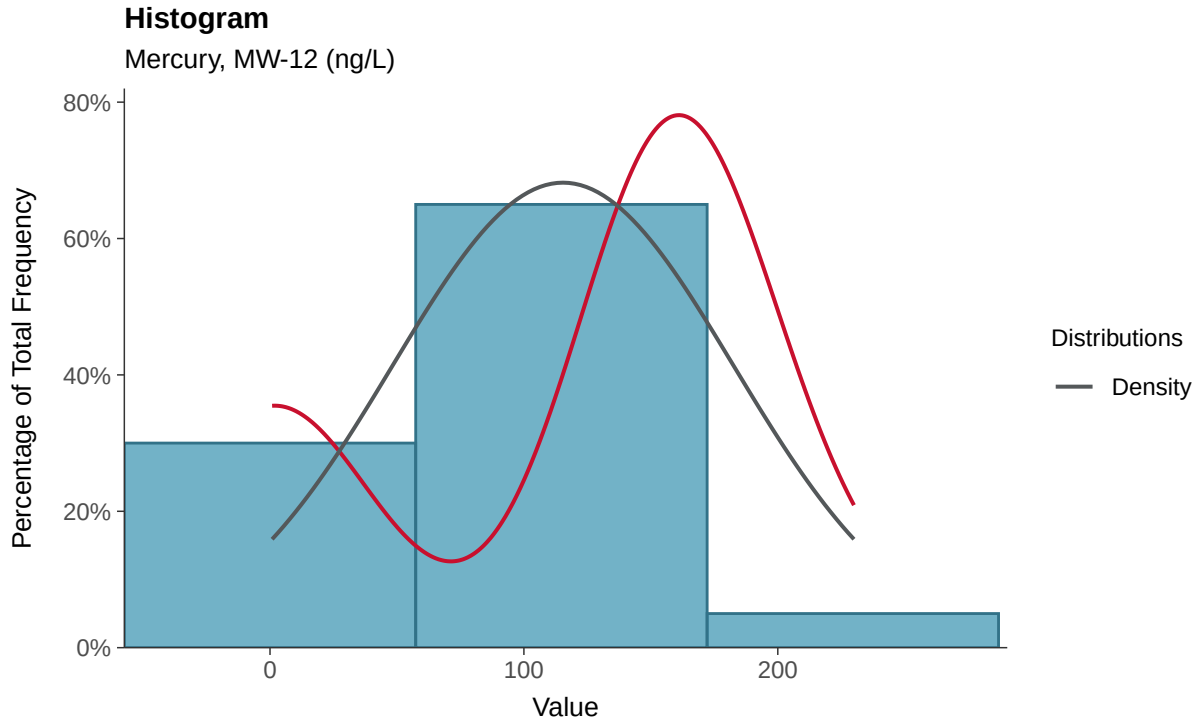
Lithium, MW-12 (mg/L)



Appendix IV: Mercury, MW-12

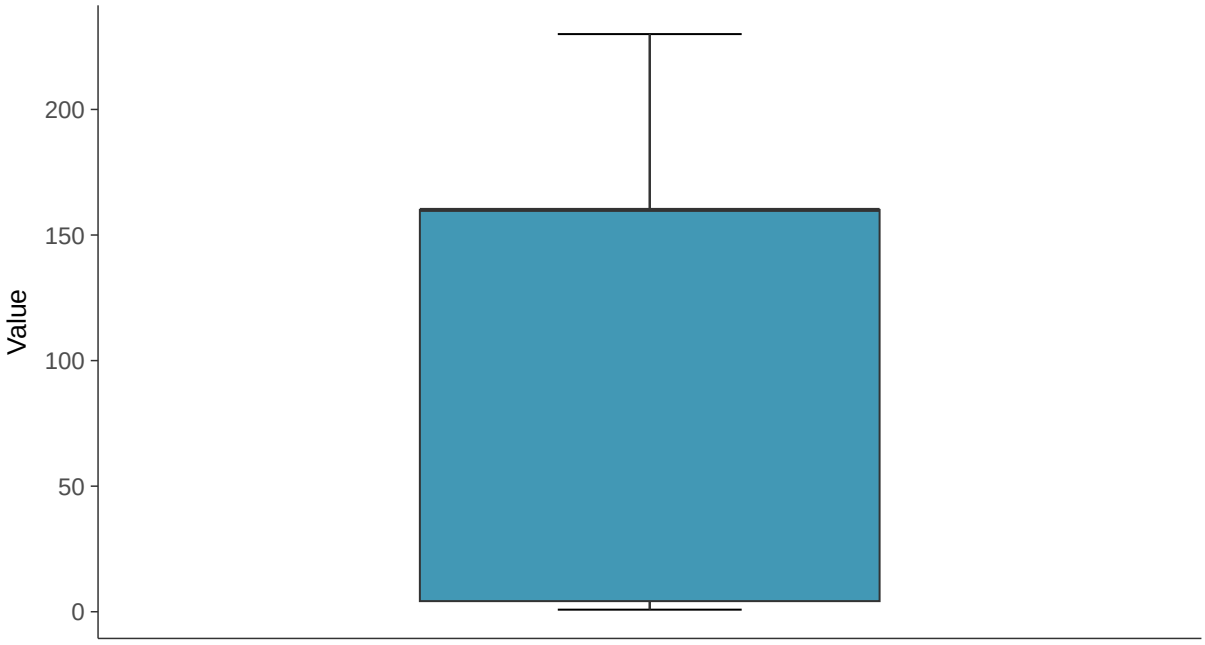
ID: 22_2_4_117





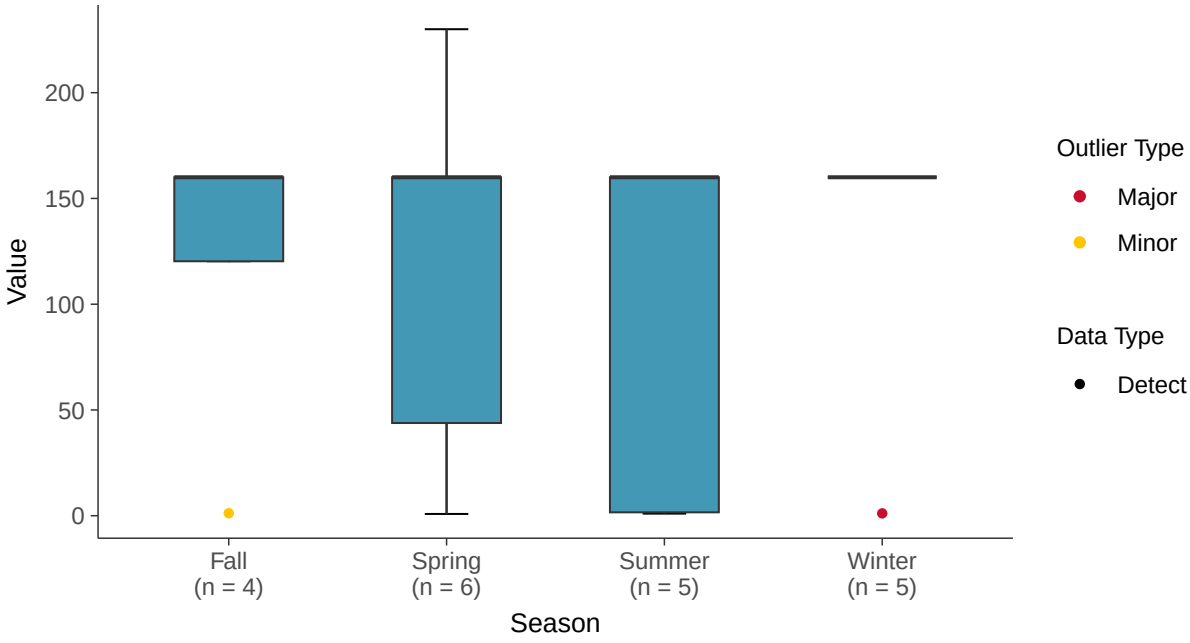
Boxplot

Mercury, MW-12 (ng/L)



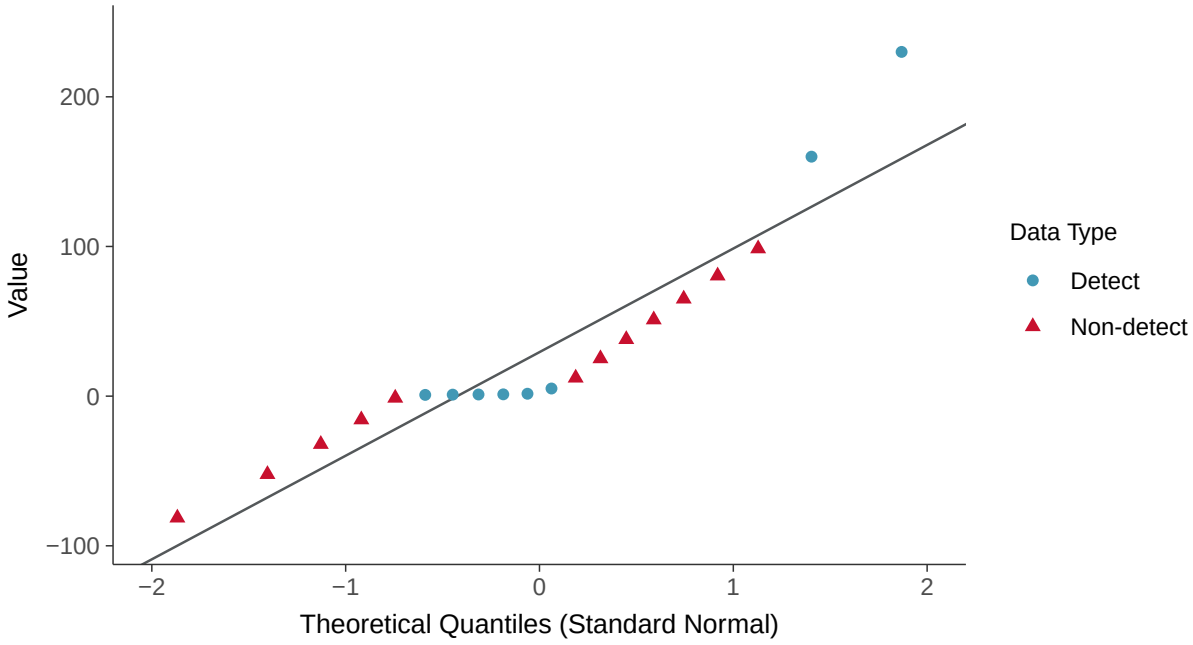
Boxplot by Season

Mercury, MW-12 (ng/L)



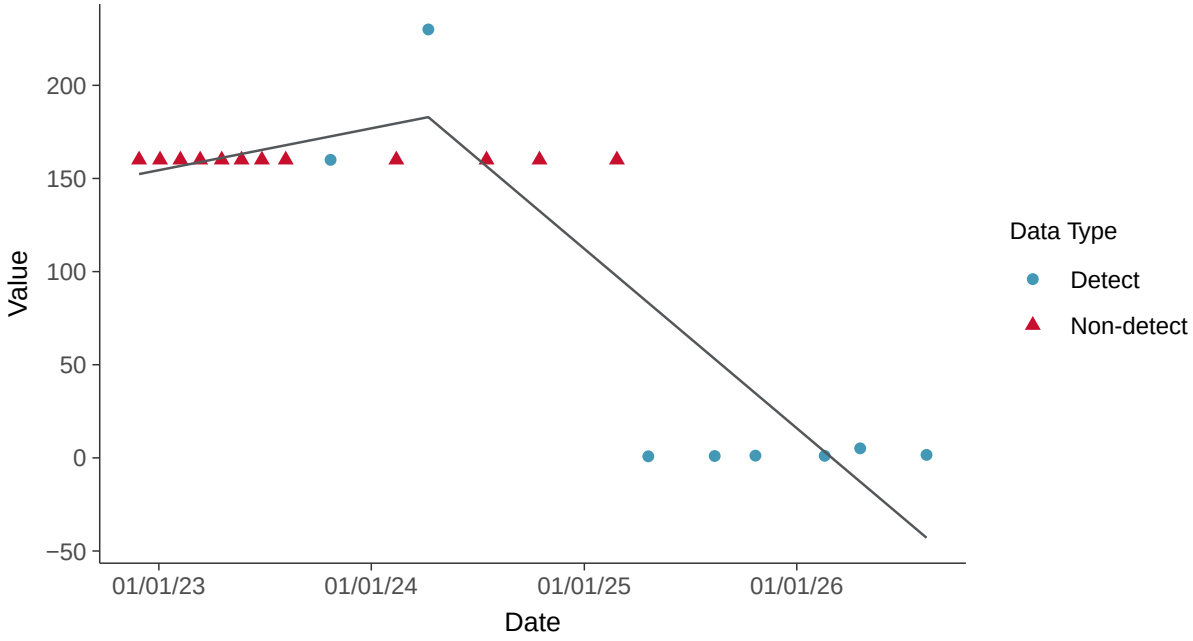
Normal Q-Q plot using ROS Imputed Estimates

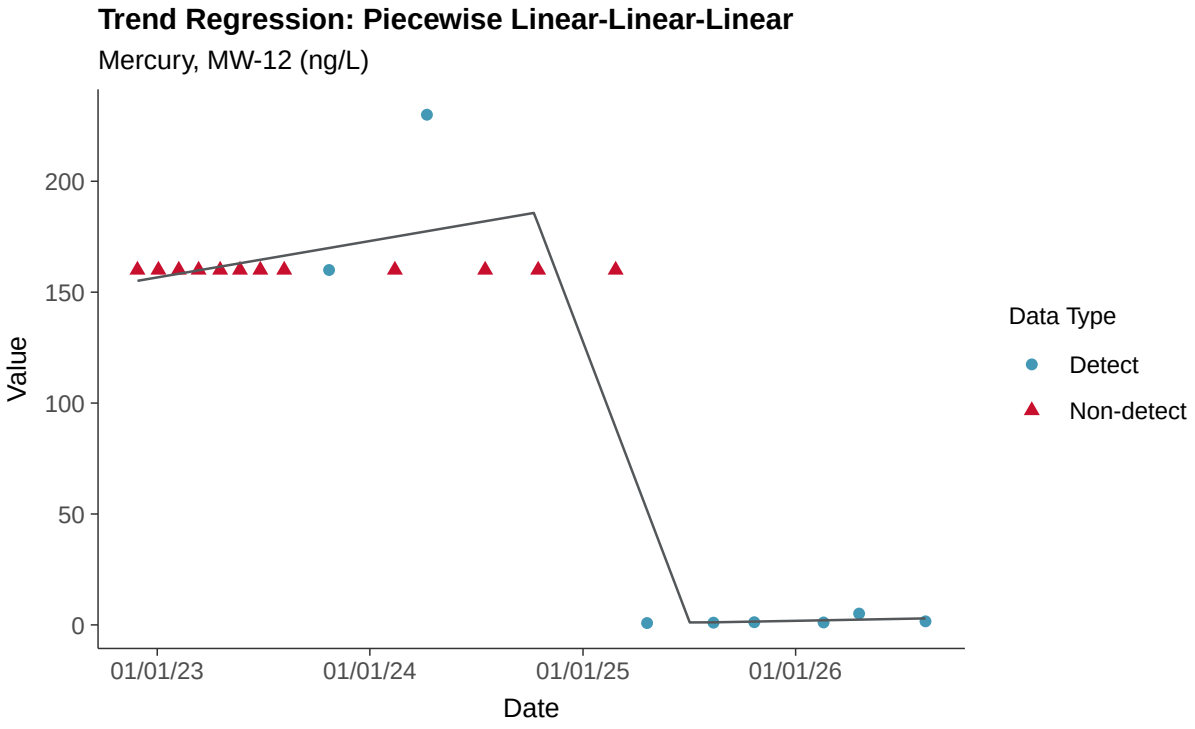
Mercury, MW-12 (ng/L)



Trend Regression: Piecewise Linear-Linear

Mercury, MW-12 (ng/L)



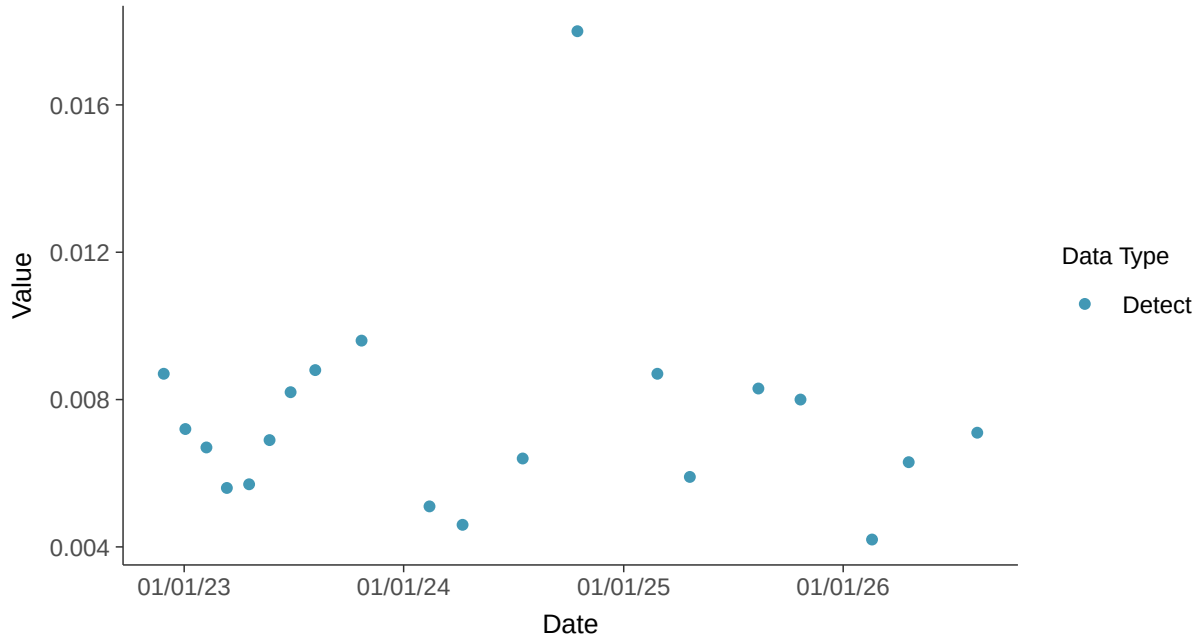

Trend Regression: Piecewise Linear-Linear-Linear
Mercury, MW-12 (ng/L)
Value
200
150
100
50
0
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect
Non-detect

Appendix IV: Molybdenum, MW-12

ID: 22_2_4_118

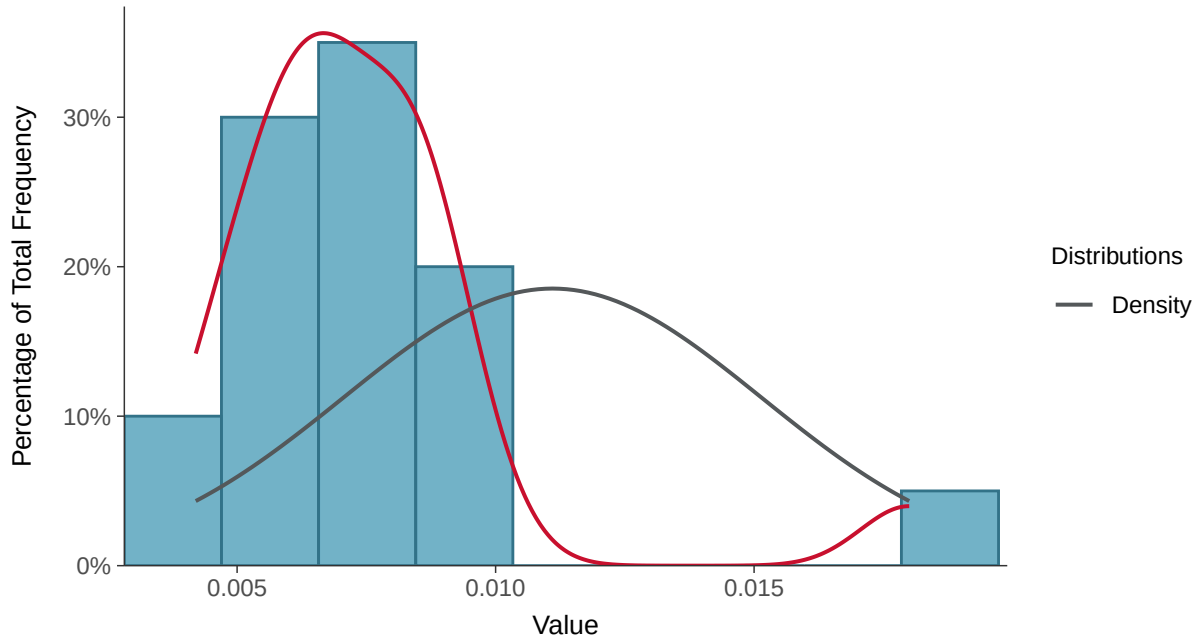
Scatter Plot

Molybdenum, MW-12 (mg/L)



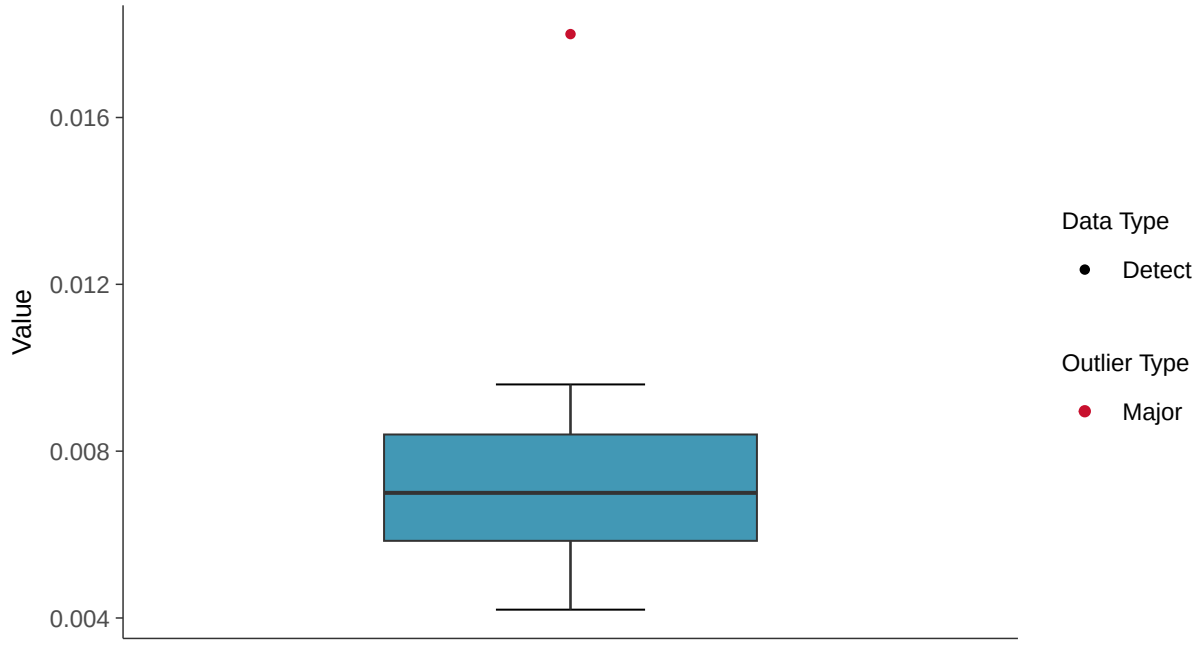
Histogram

Molybdenum, MW-12 (mg/L)



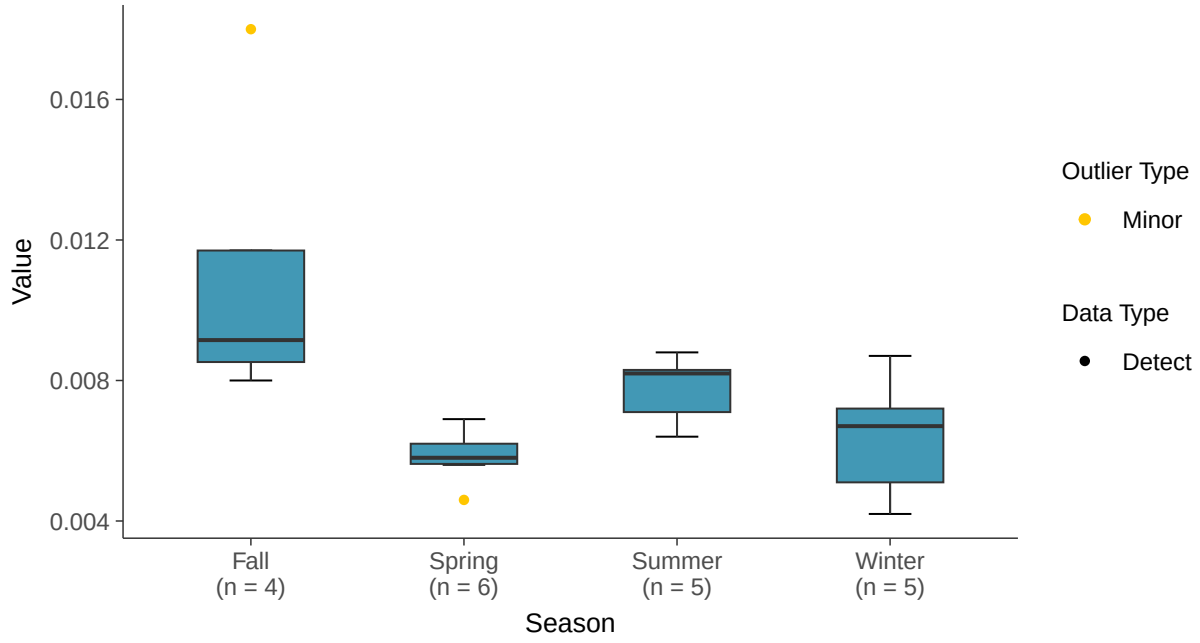
Boxplot

Molybdenum, MW-12 (mg/L)



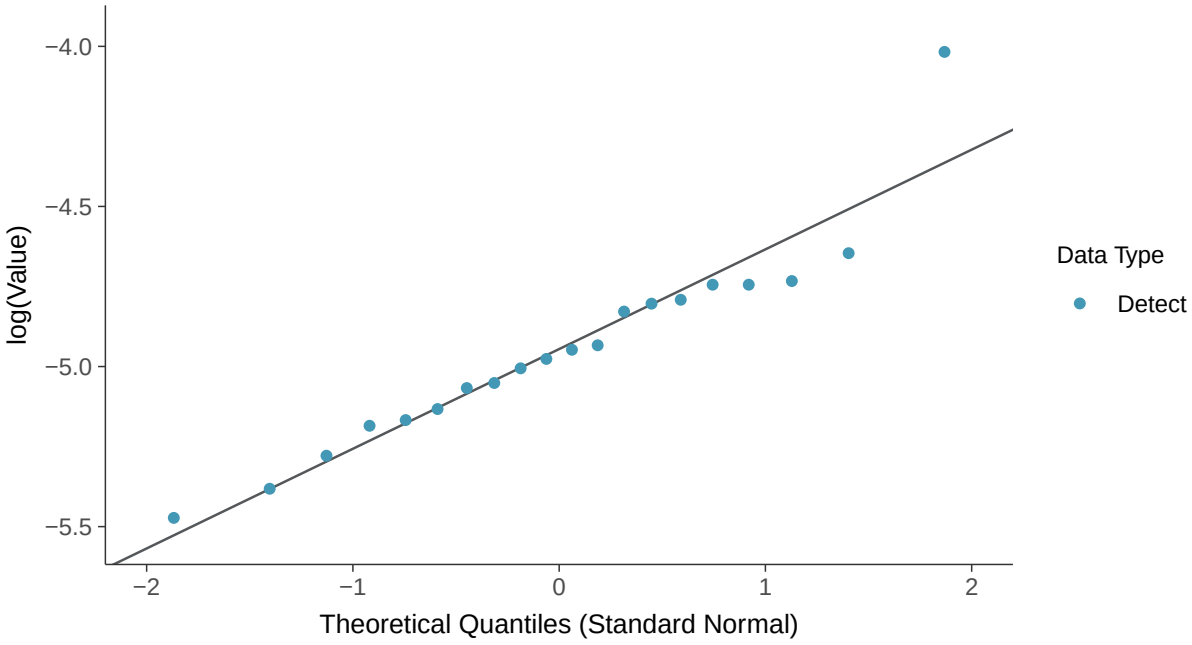
Boxplot by Season

Molybdenum, MW-12 (mg/L)



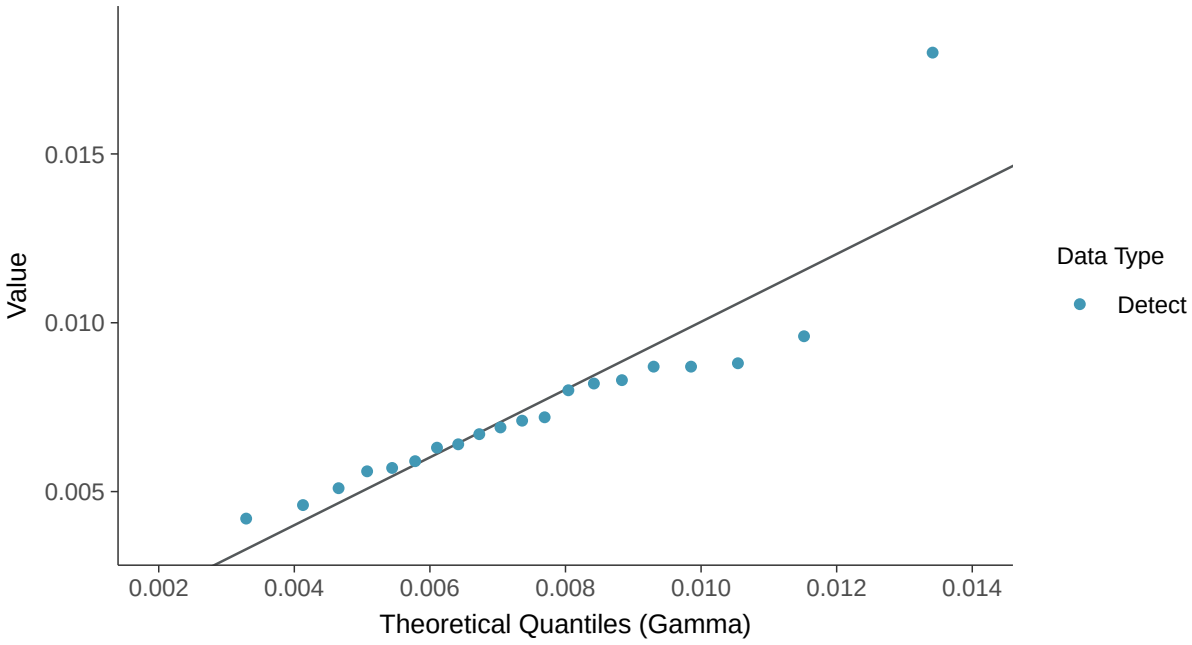
Lognormal Q-Q plot

Molybdenum, MW-12 (mg/L)



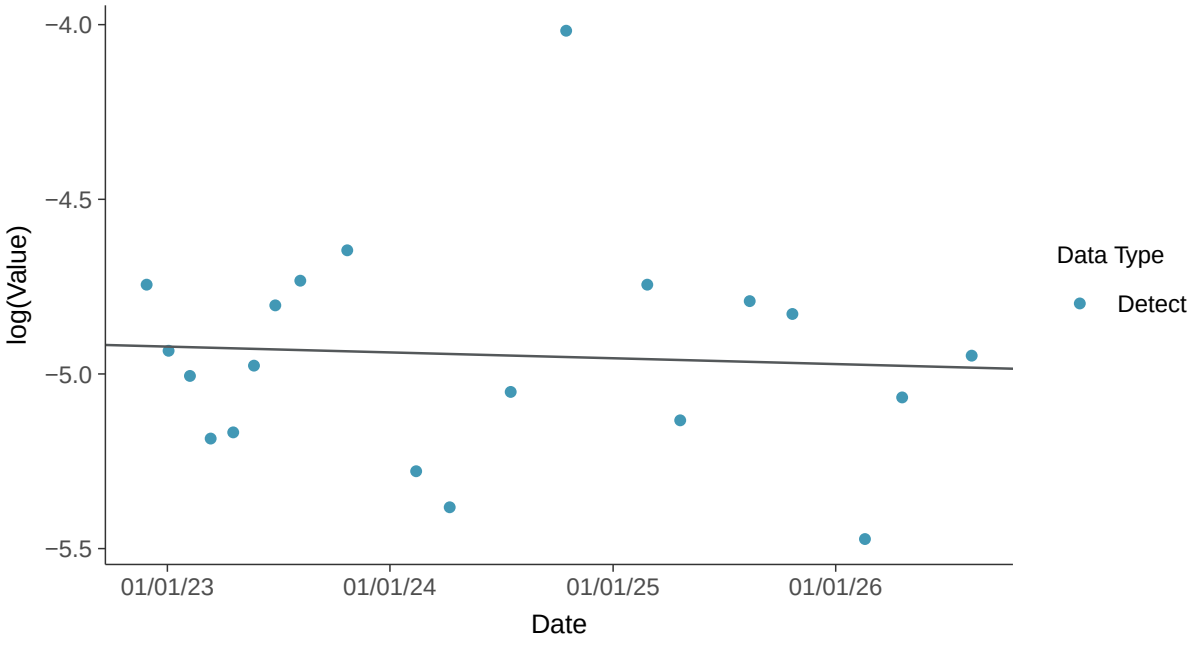
Gamma Q-Q plot

Molybdenum, MW-12 (mg/L)



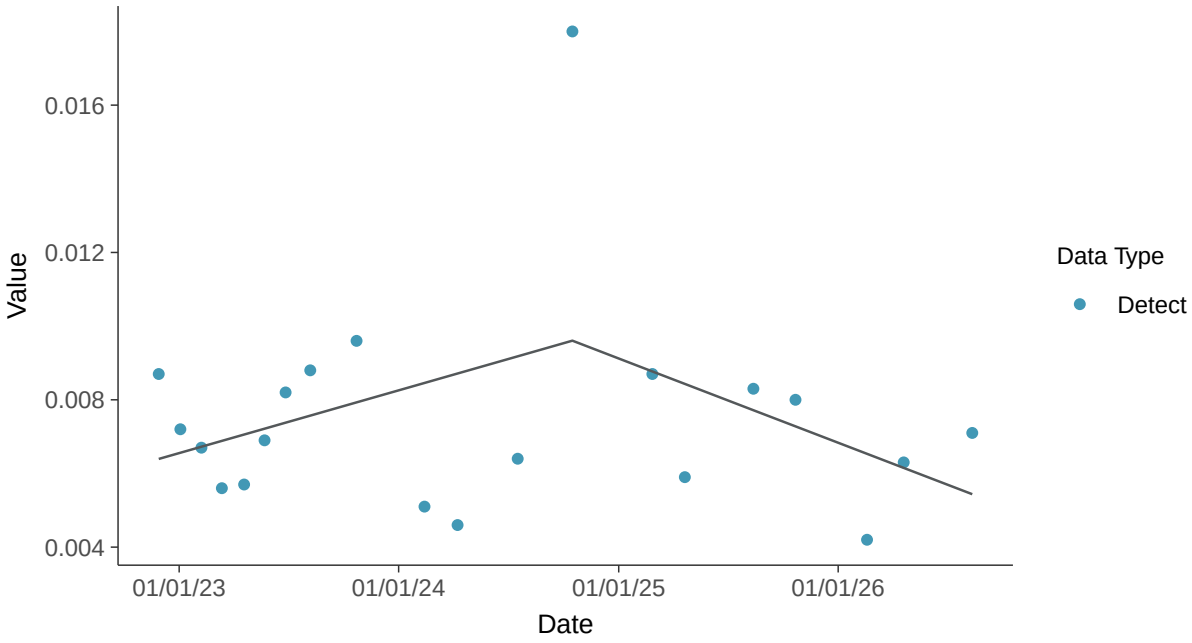
Trend Regression: Lognormal MLE

Molybdenum, MW-12 (mg/L)



Trend Regression: Piecewise Linear-Linear

Molybdenum, MW-12 (mg/L)

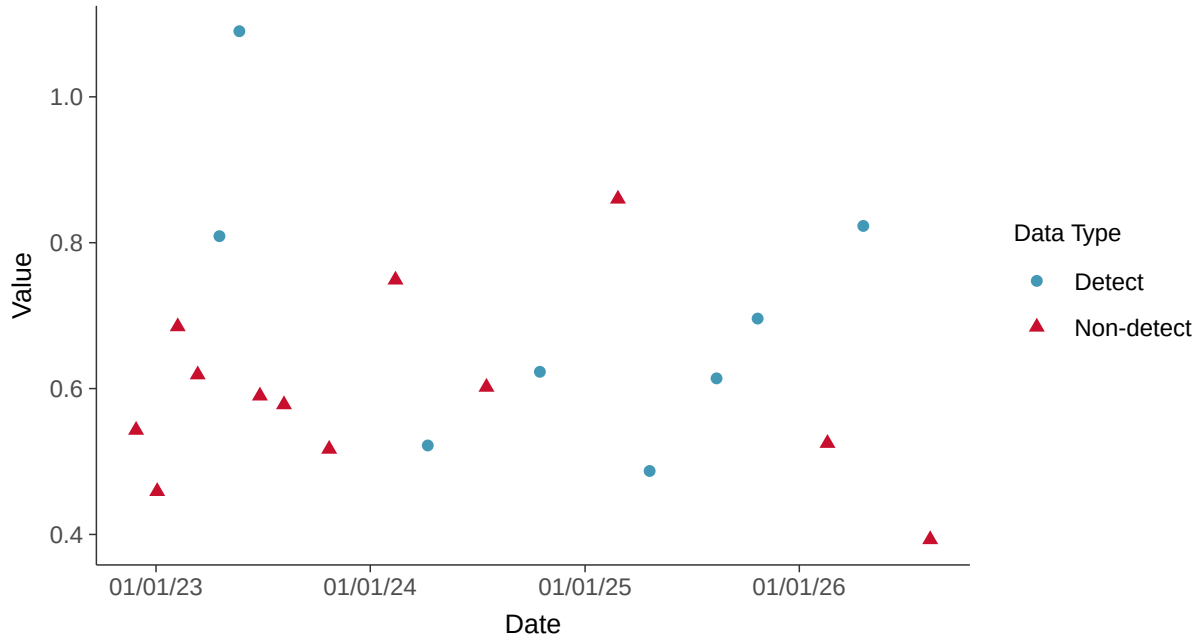


Appendix IV: Radium 226 and 228, MW-12

ID: 22_2_4_121

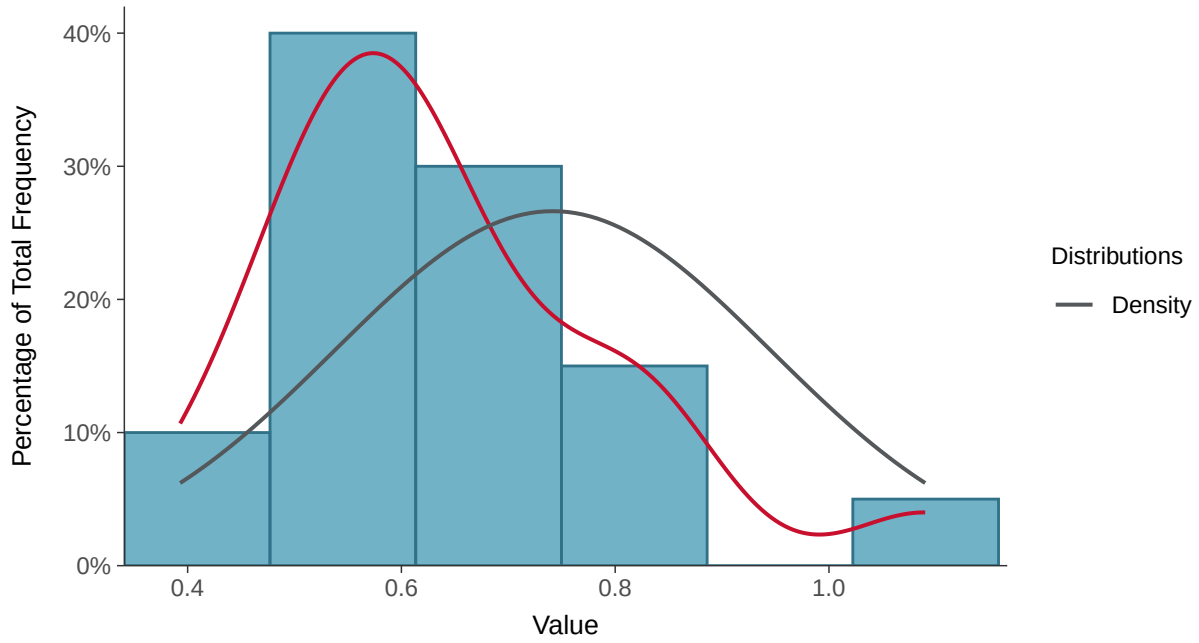
Scatter Plot

Radium 226 and 228, MW-12 (pCi/L)



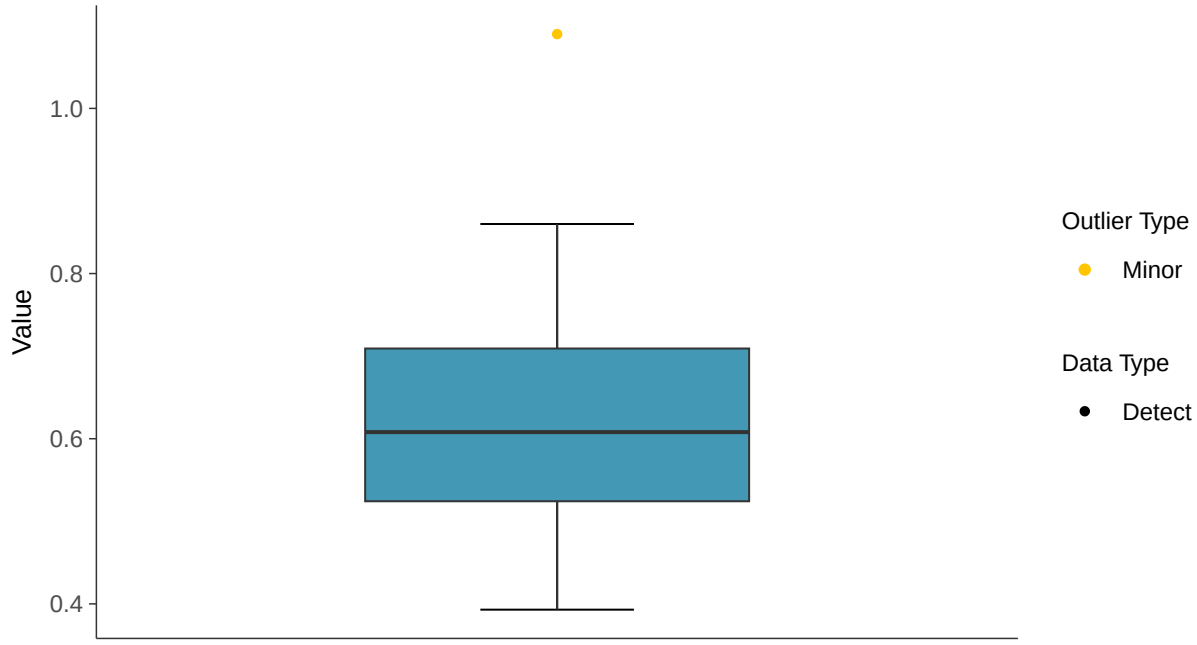
Histogram

Radium 226 and 228, MW-12 (pCi/L)



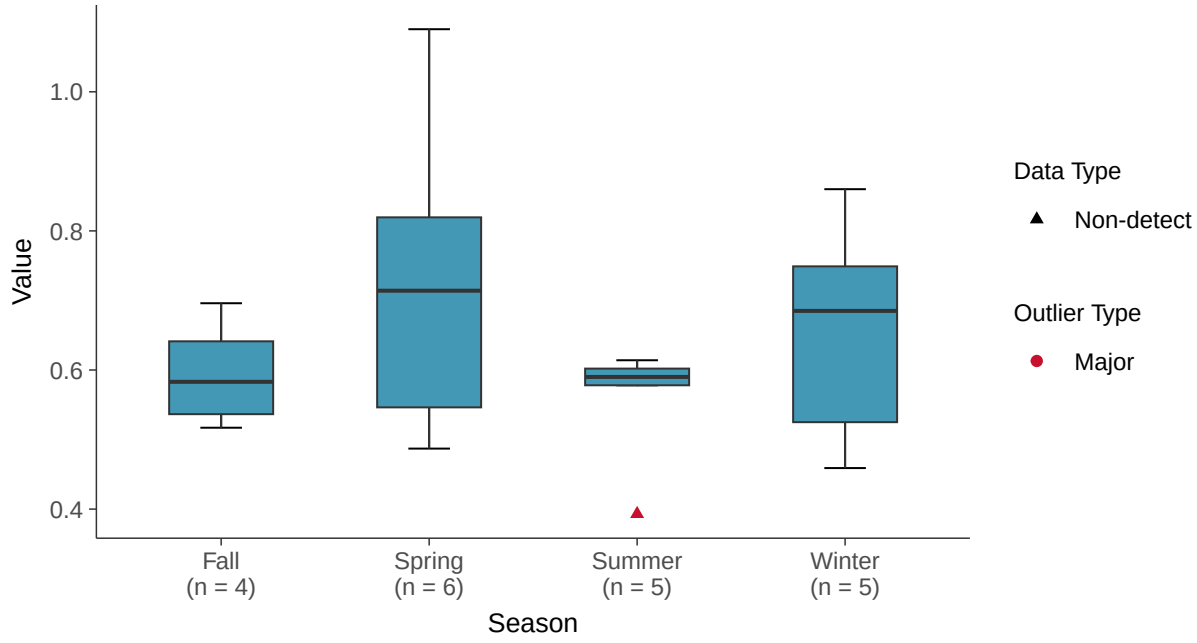
Boxplot

Radium 226 and 228, MW-12 (pCi/L)



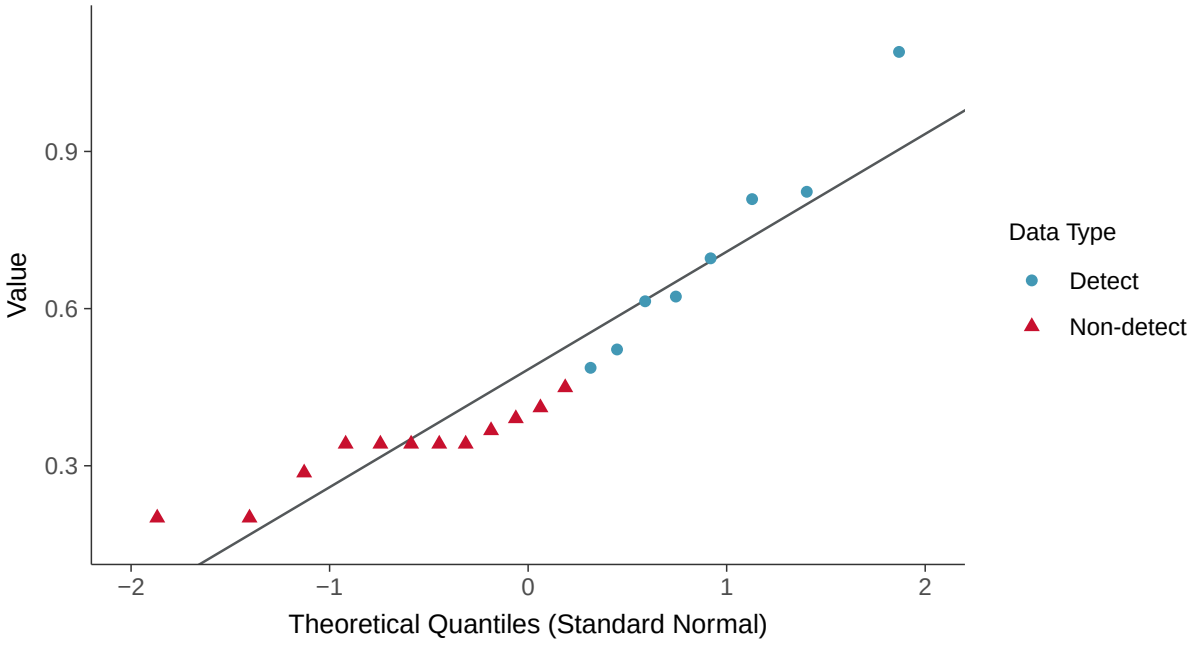
Boxplot by Season

Radium 226 and 228, MW-12 (pCi/L)



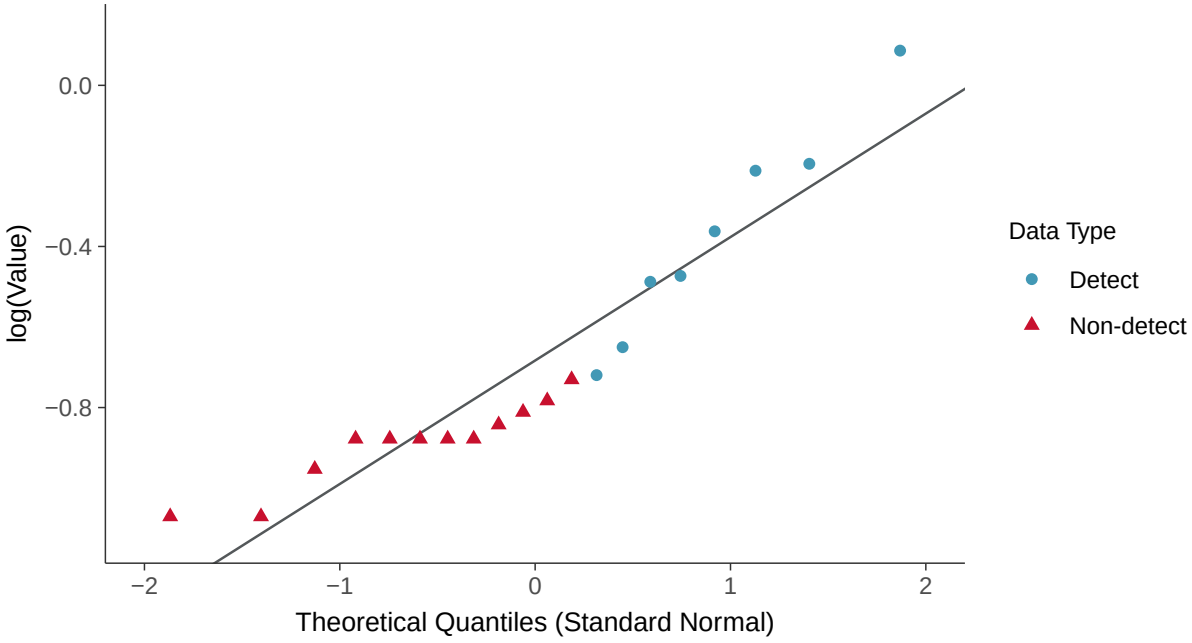
Normal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-12 (pCi/L)



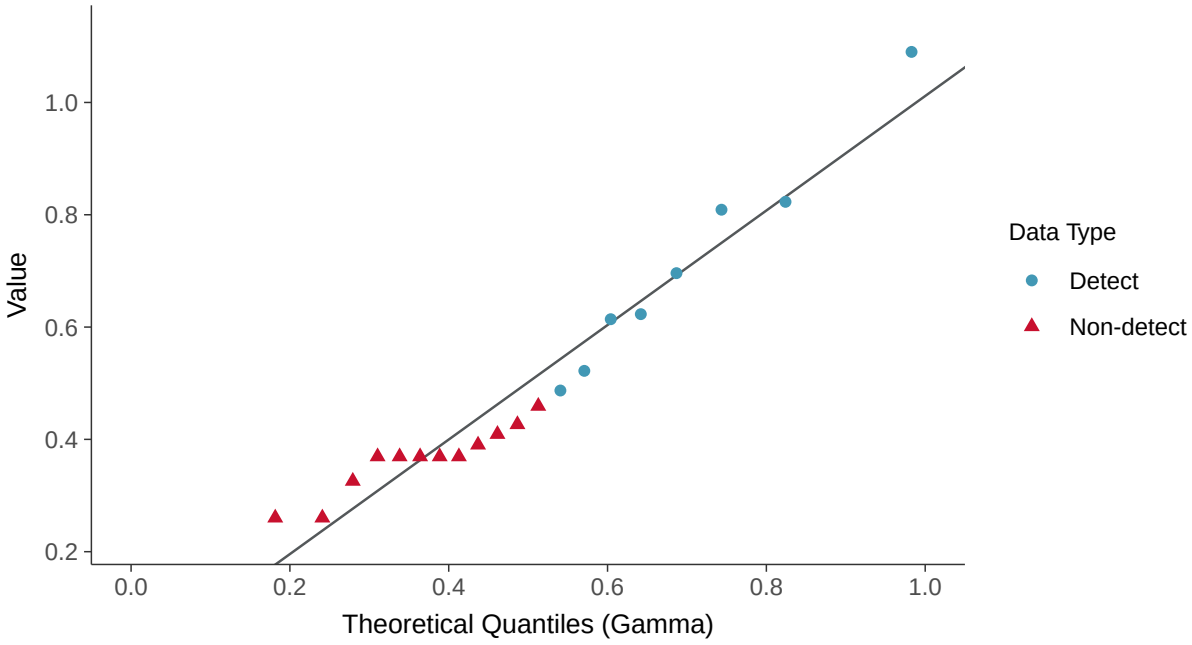
Lognormal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-12 (pCi/L)



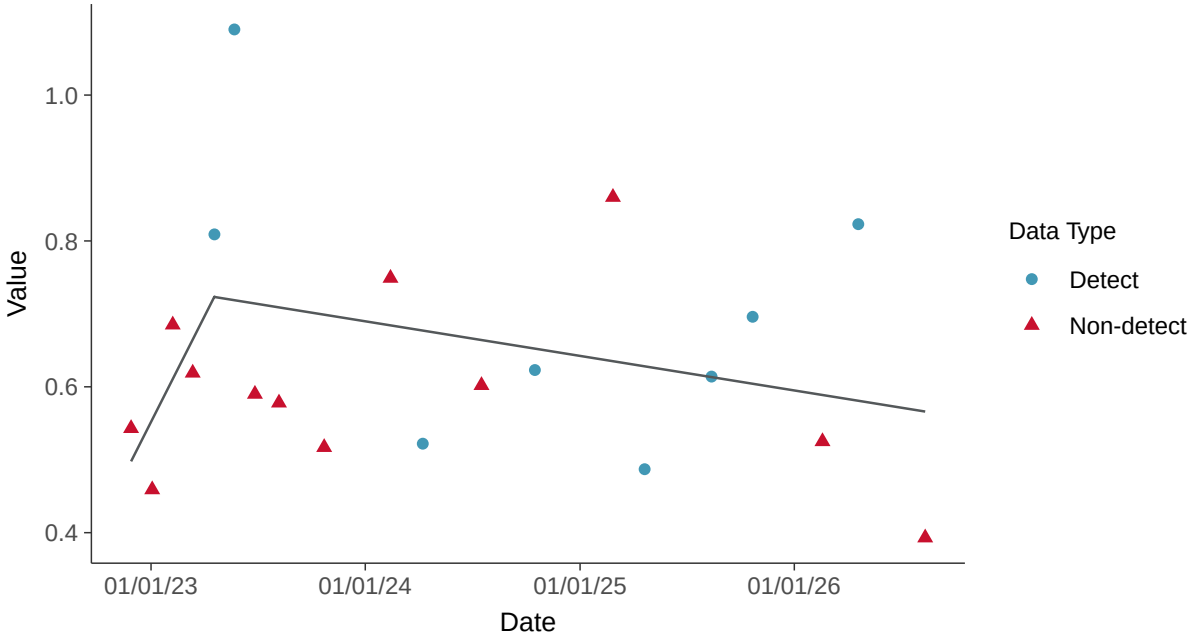
Gamma Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-12 (pCi/L)



Trend Regression: Piecewise Linear-Linear

Radium 226 and 228, MW-12 (pCi/L)

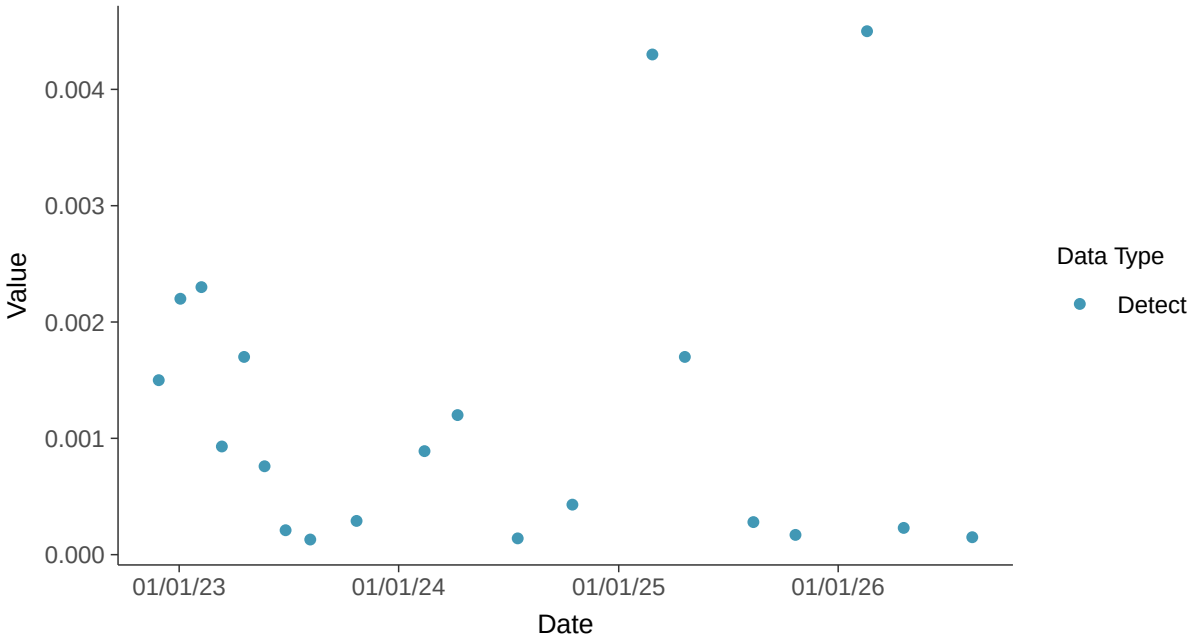


Appendix IV: Selenium, MW-12

ID: 22_2_4_122

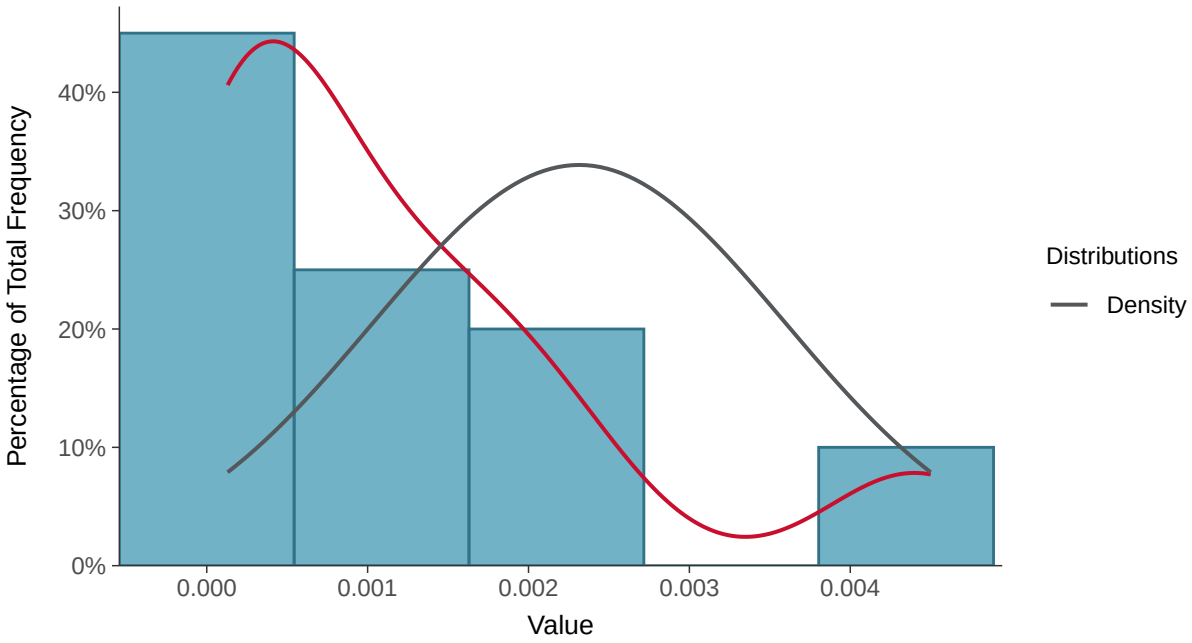
Scatter Plot

Selenium, MW-12 (mg/L)



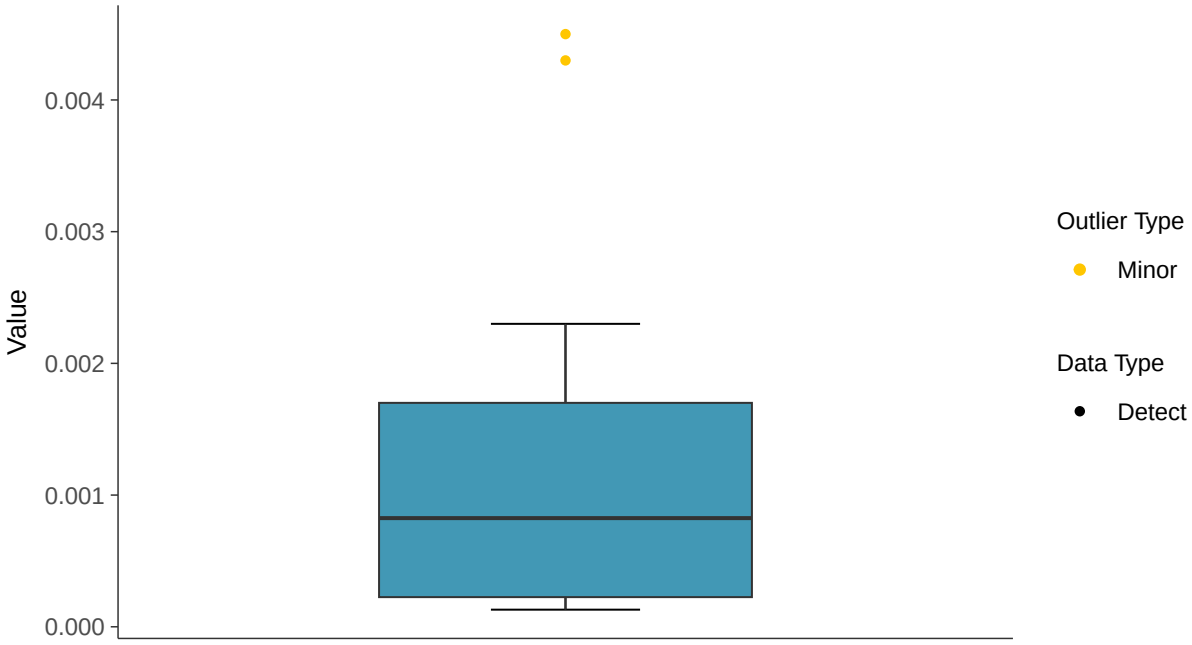
Histogram

Selenium, MW-12 (mg/L)



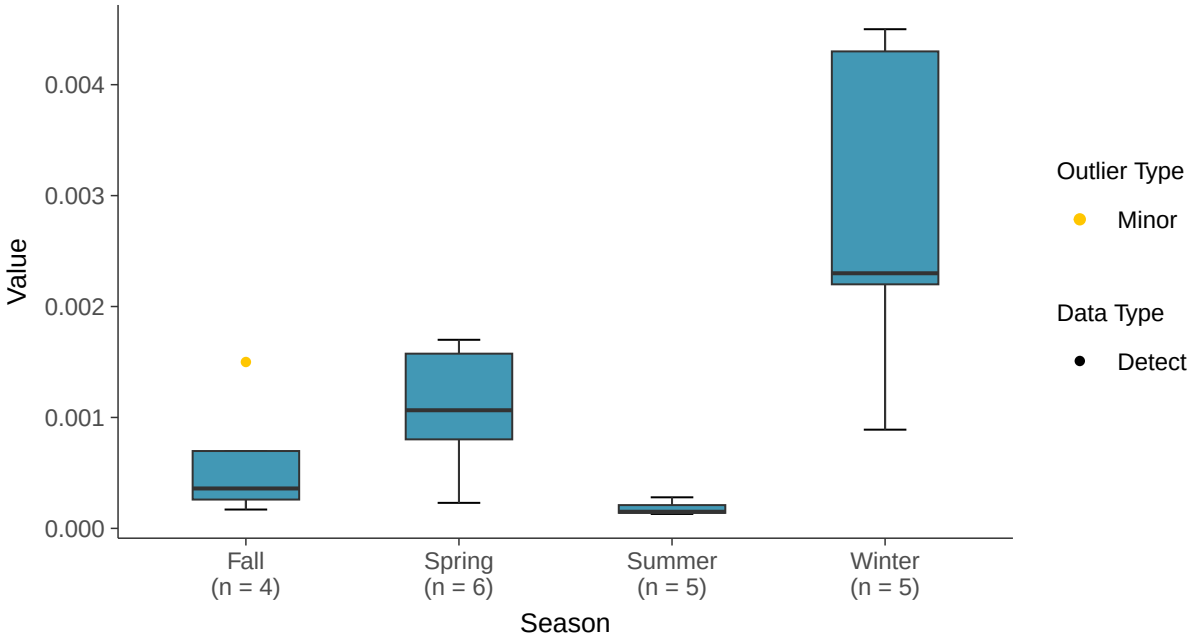
Boxplot

Selenium, MW-12 (mg/L)



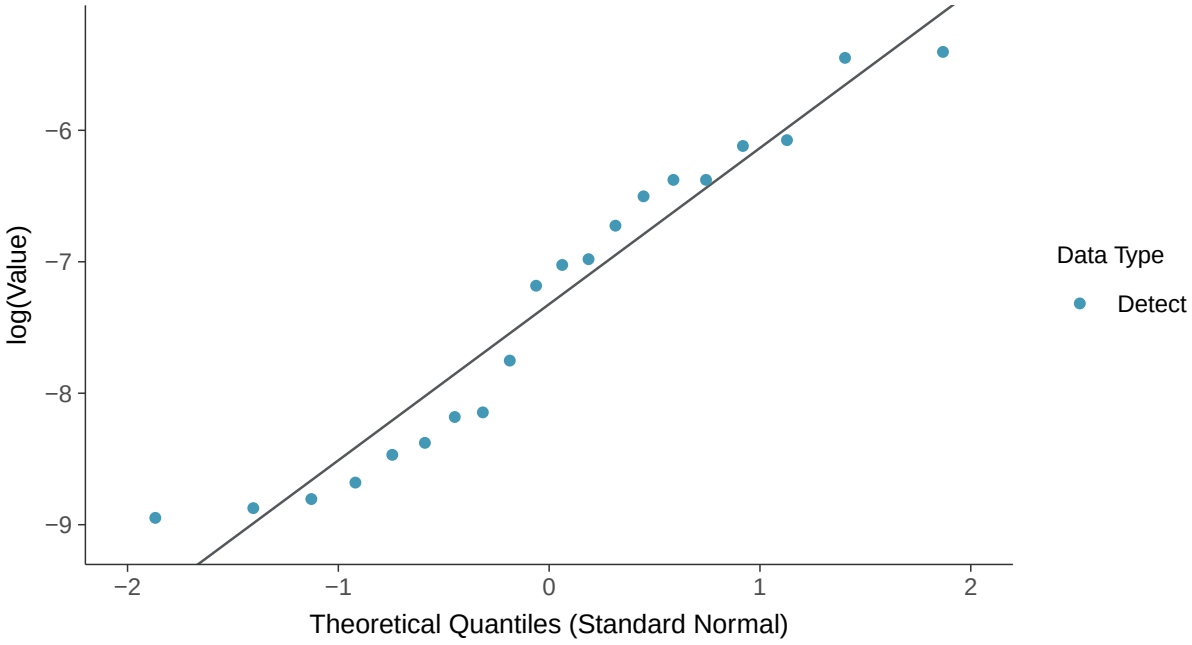
Boxplot by Season

Selenium, MW-12 (mg/L)



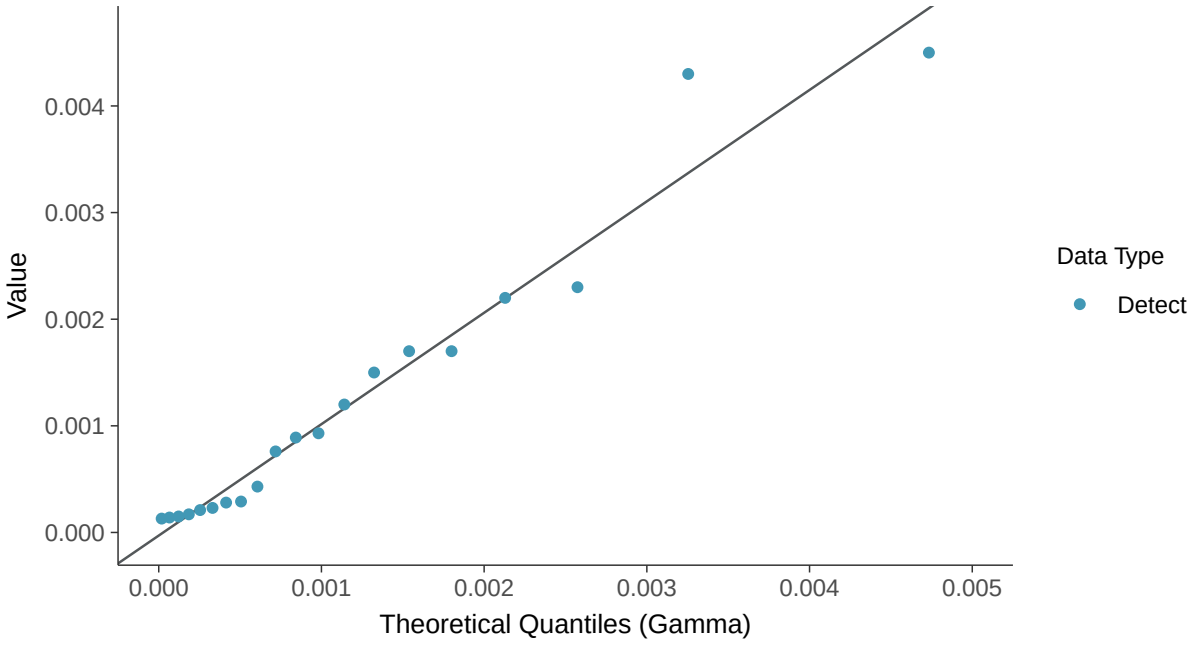
Lognormal Q-Q plot

Selenium, MW-12 (mg/L)



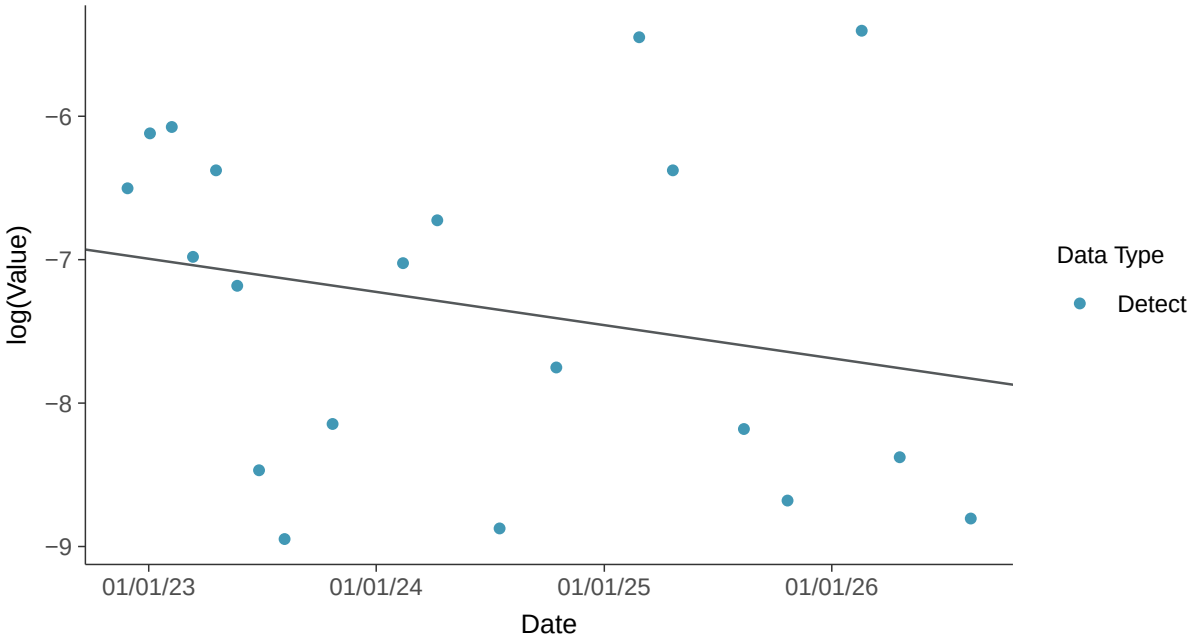
Gamma Q-Q plot

Selenium, MW-12 (mg/L)



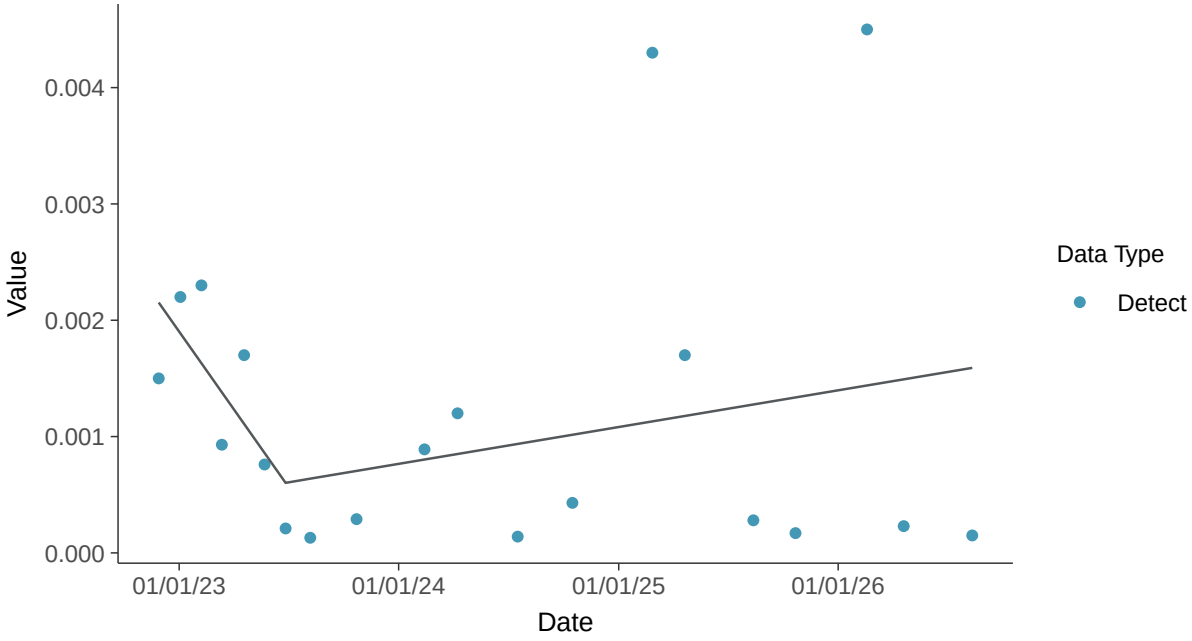
Trend Regression: Lognormal MLE

Selenium, MW-12 (mg/L)



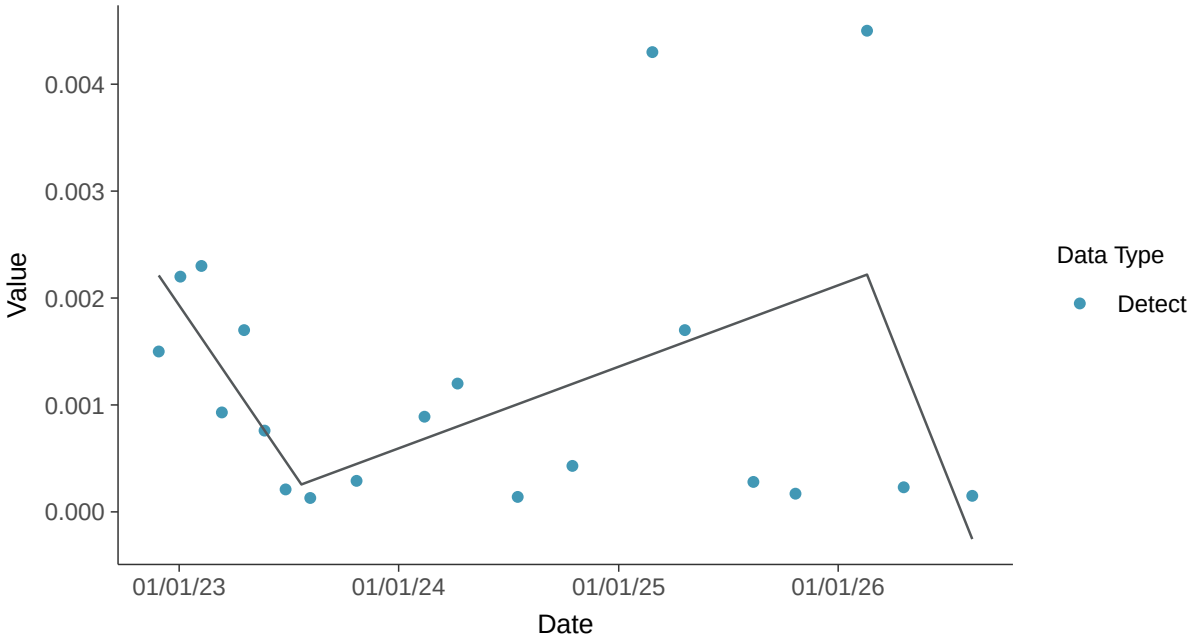
Trend Regression: Piecewise Linear-Linear

Selenium, MW-12 (mg/L)



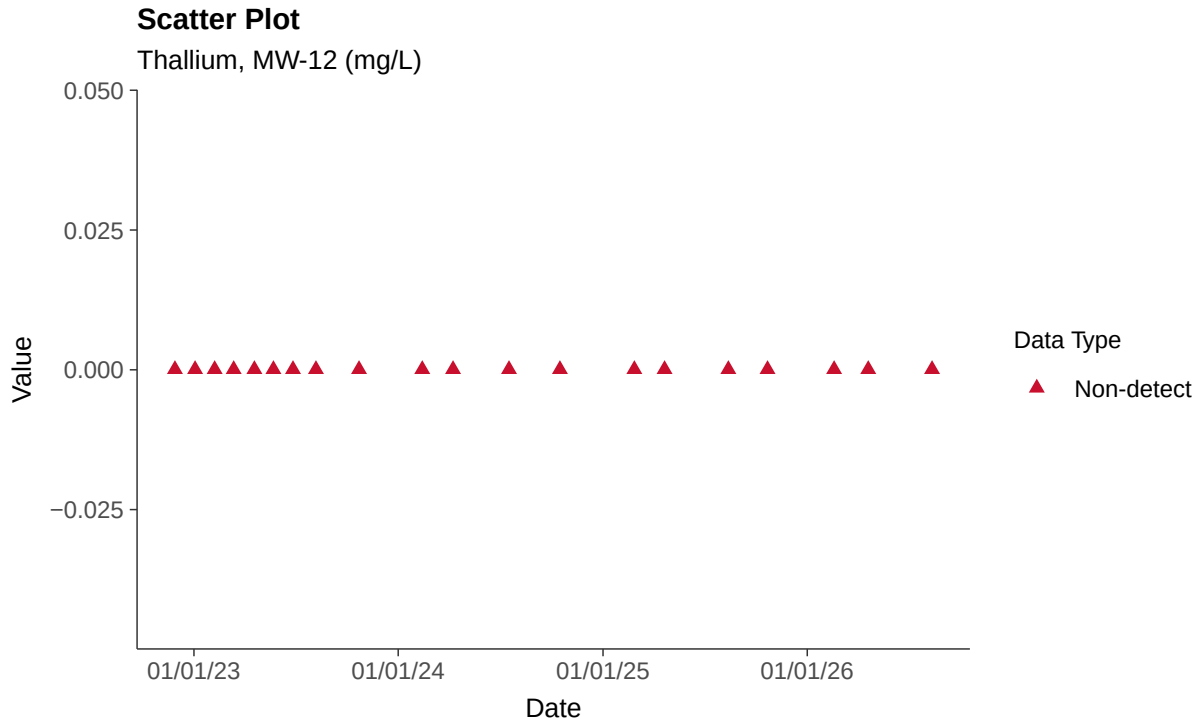
Trend Regression: Piecewise Linear-Linear-Linear

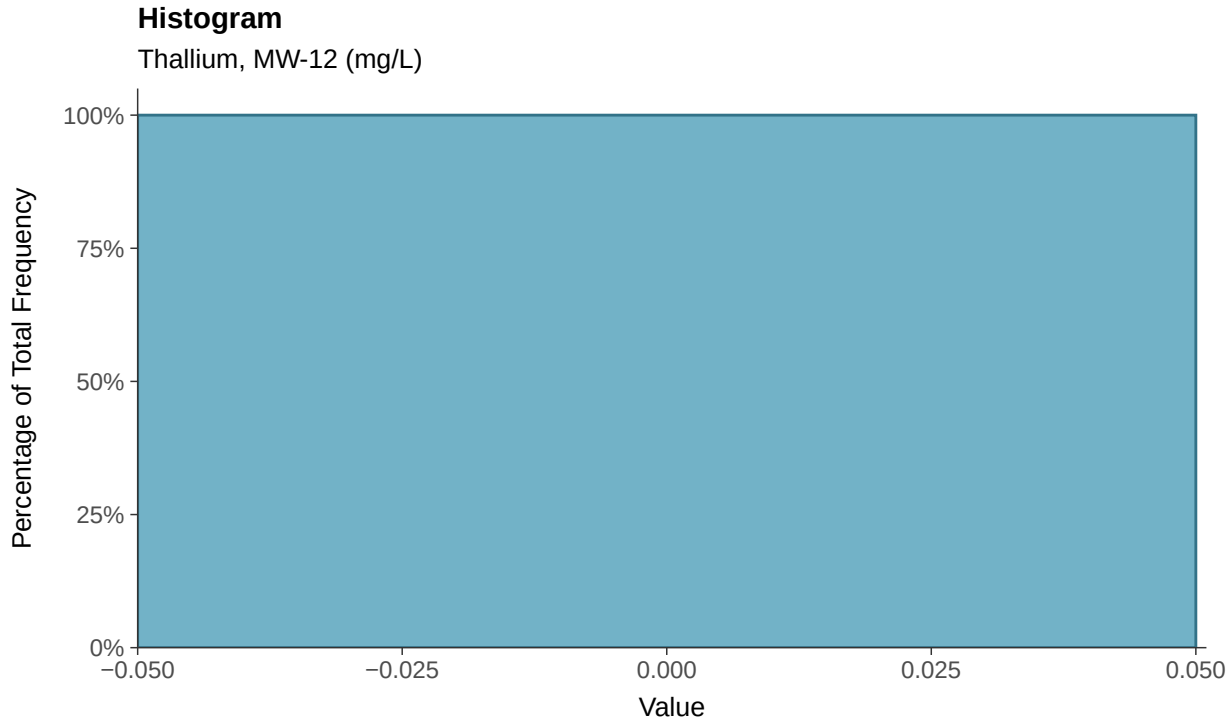
Selenium, MW-12 (mg/L)



Appendix IV: Thallium, MW-12

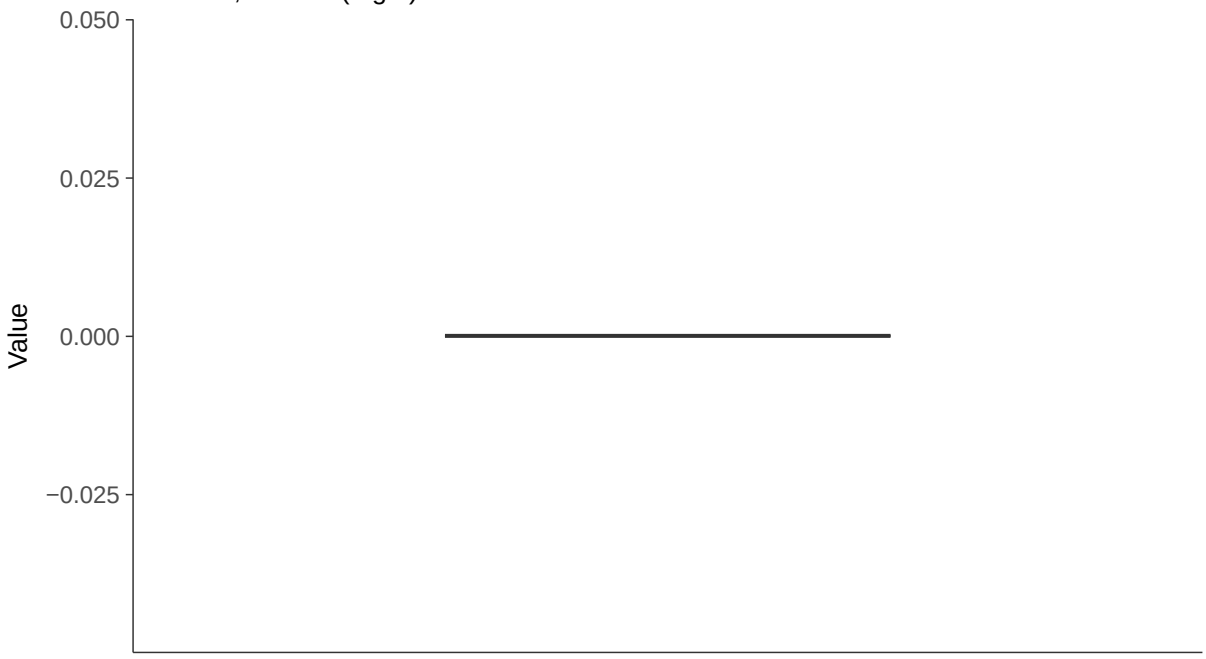
ID: 22_2_4_125





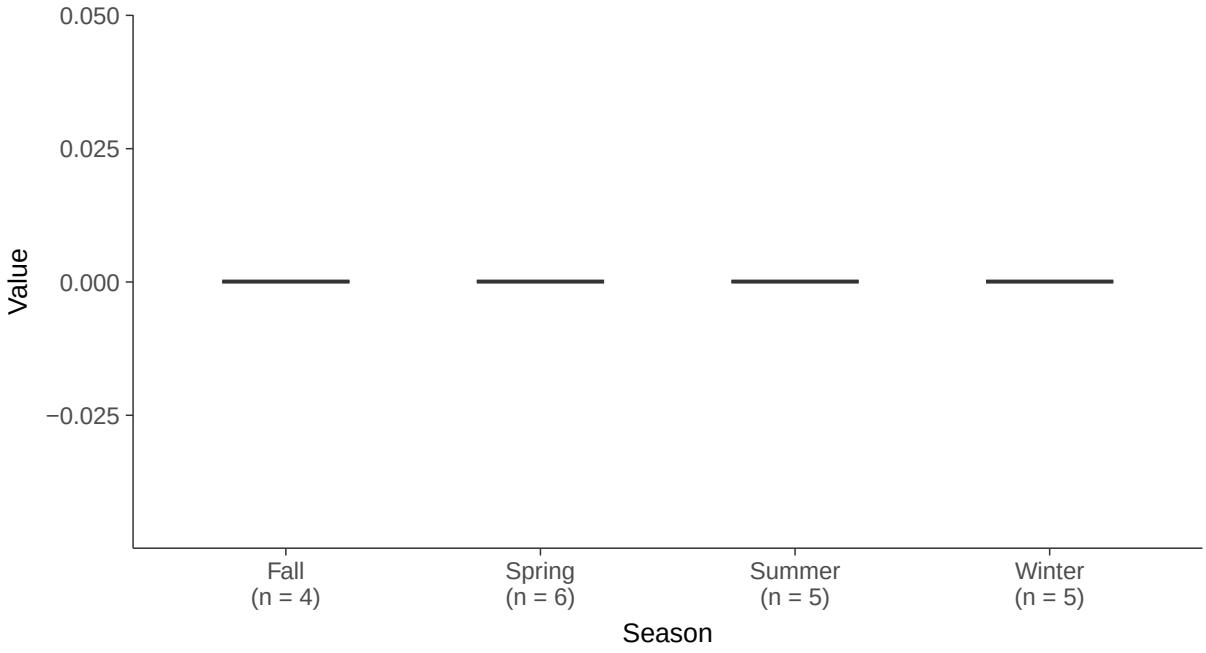
Boxplot

Thallium, MW-12 (mg/L)



Boxplot by Season

Thallium, MW-12 (mg/L)

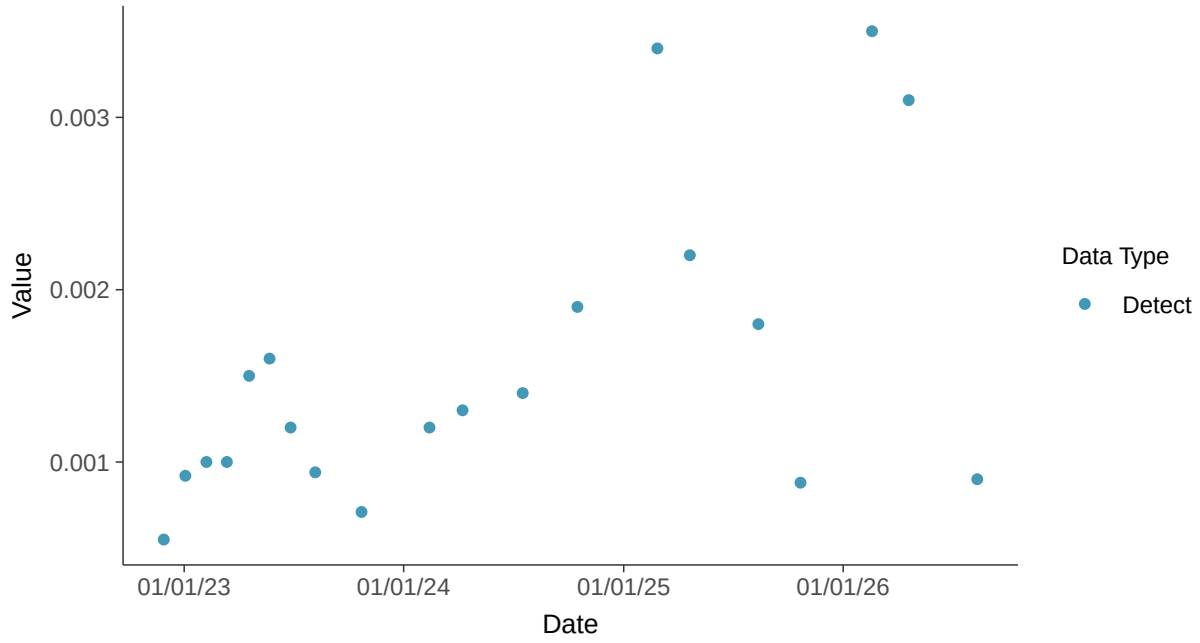


Part 115: Copper, MW-12

ID: 22_2_5_111

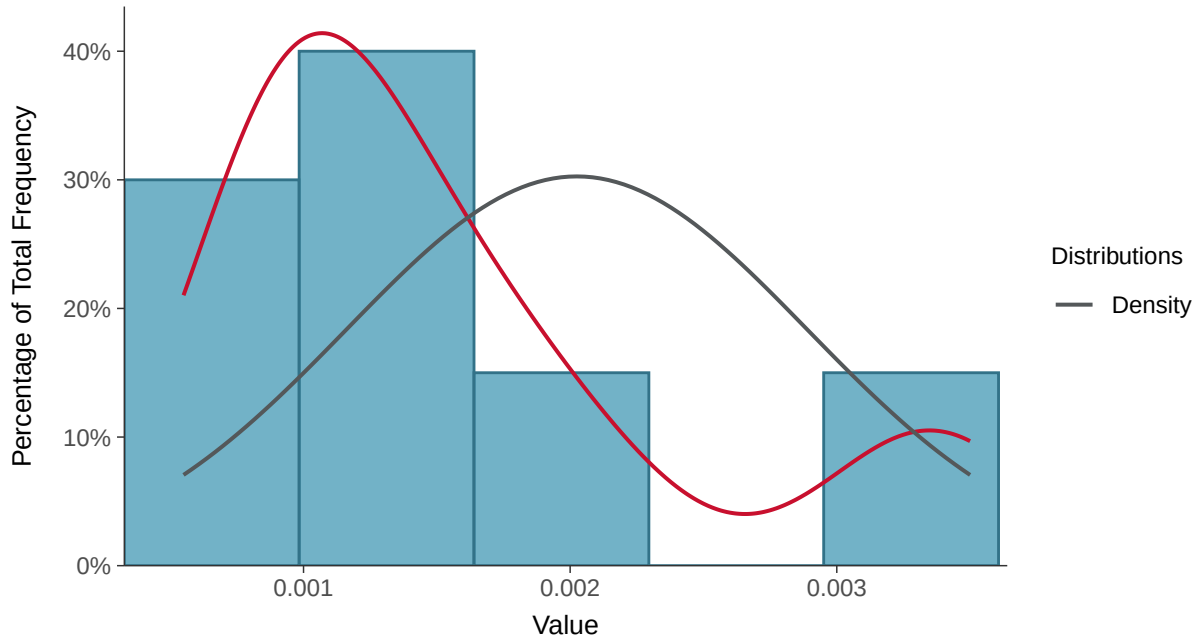
Scatter Plot

Copper, MW-12 (mg/L)



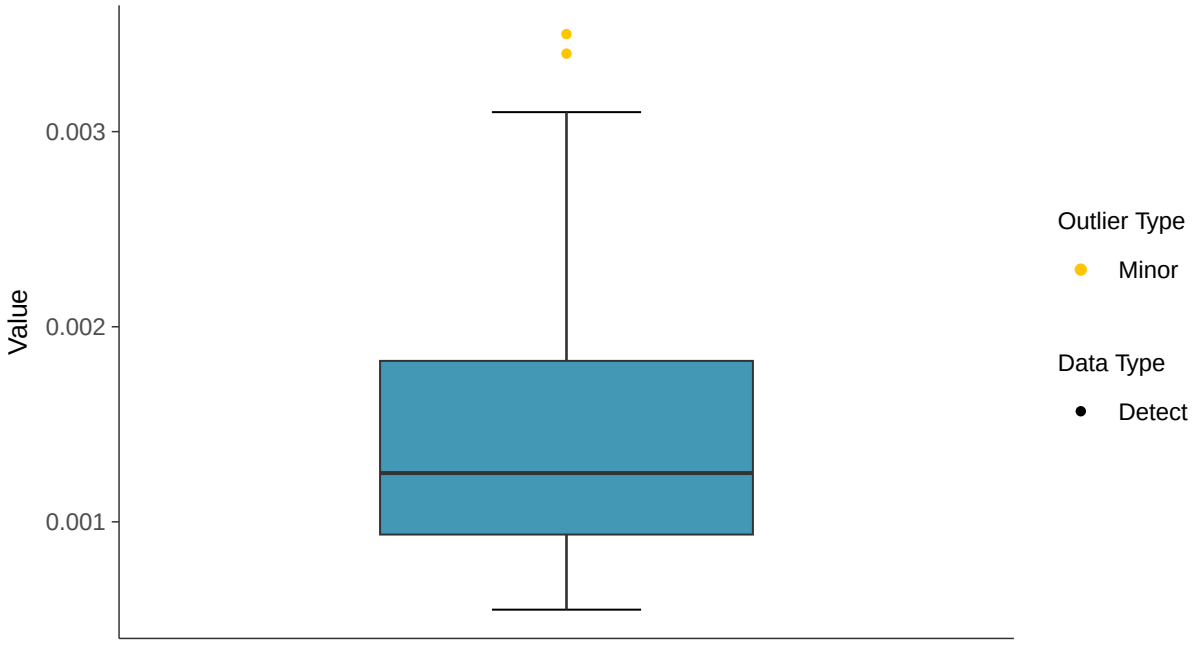
Histogram

Copper, MW-12 (mg/L)



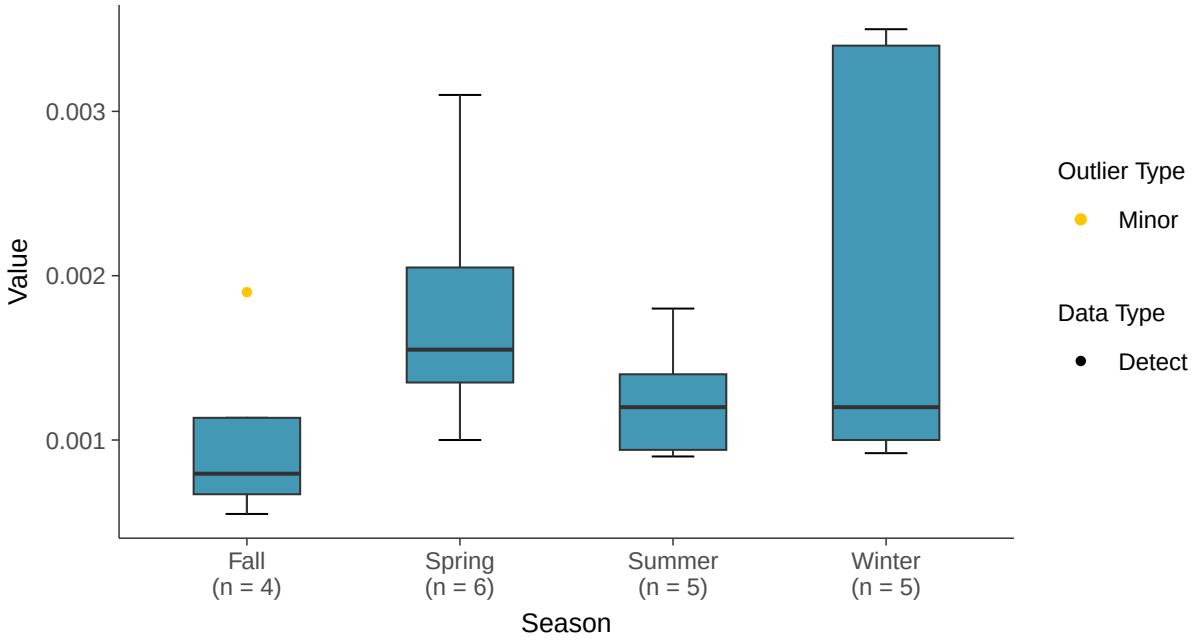
Boxplot

Copper, MW-12 (mg/L)



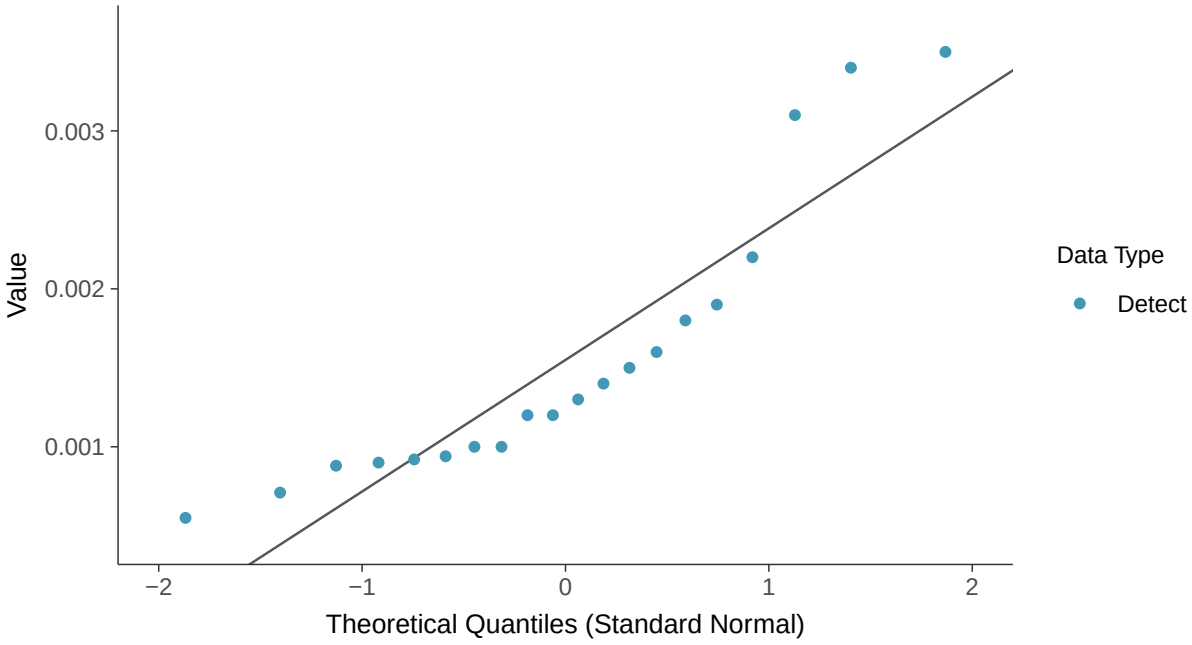
Boxplot by Season

Copper, MW-12 (mg/L)



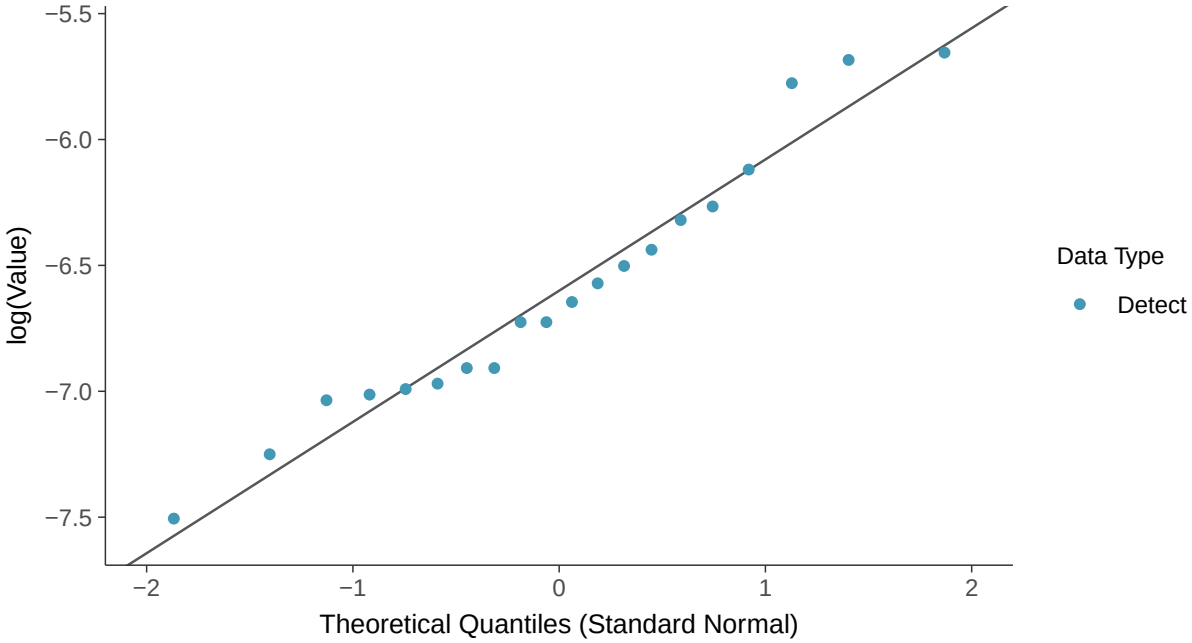
Normal Q-Q plot

Copper, MW-12 (mg/L)



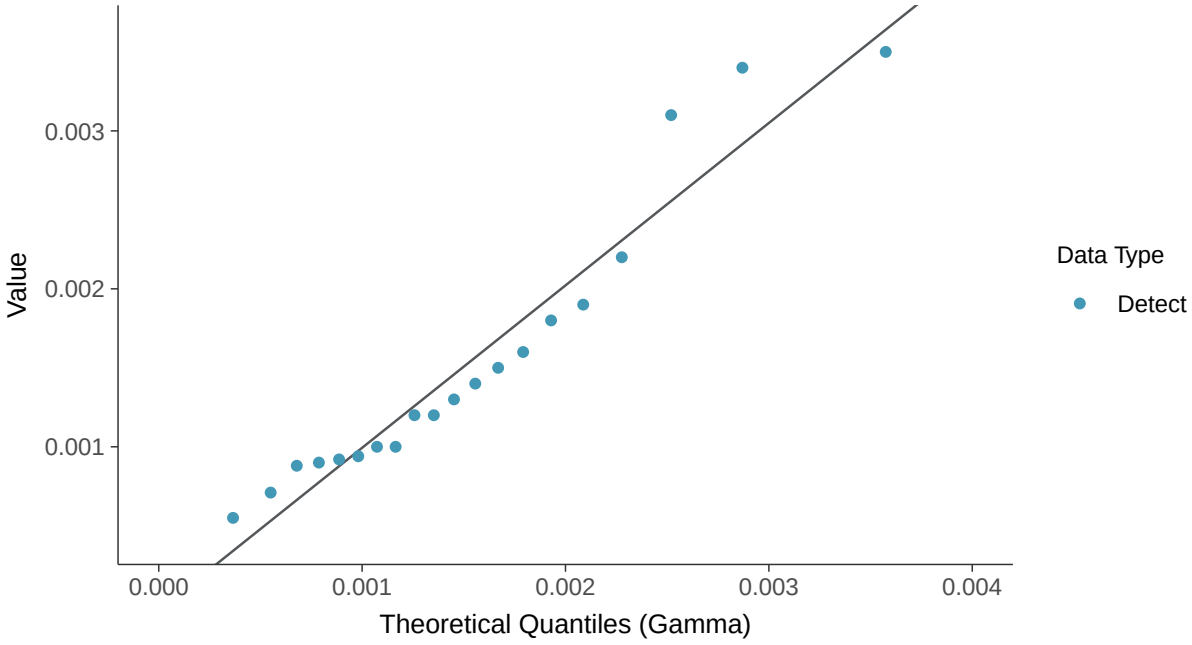
Lognormal Q-Q plot

Copper, MW-12 (mg/L)



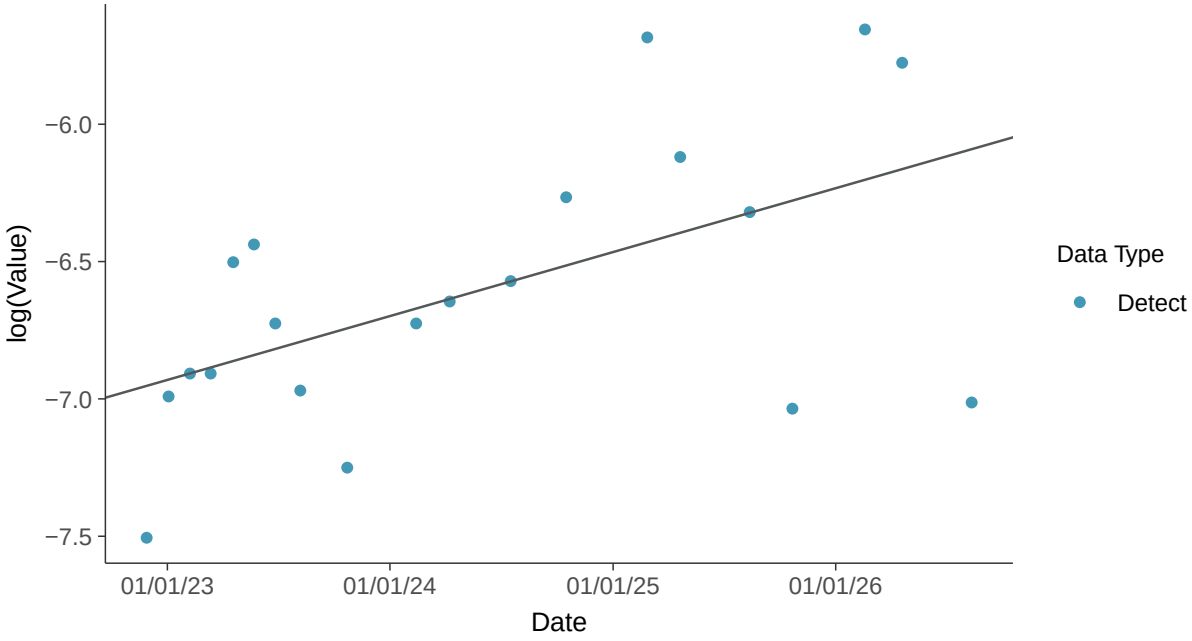
Gamma Q-Q plot

Copper, MW-12 (mg/L)



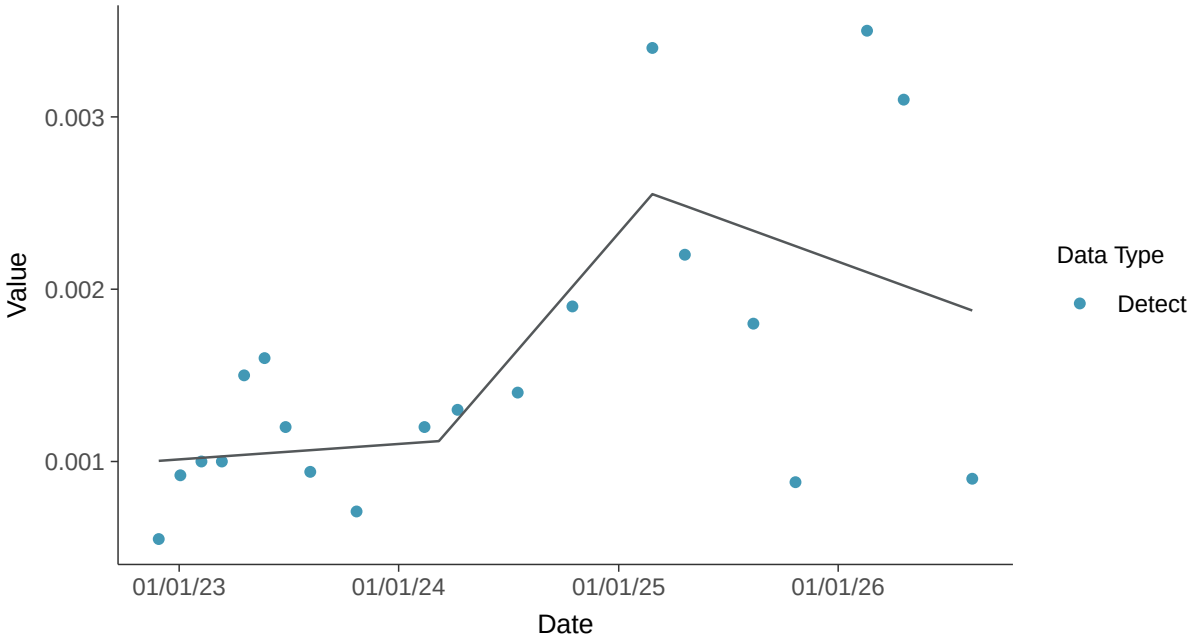
Trend Regression: Lognormal MLE

Copper, MW-12 (mg/L)



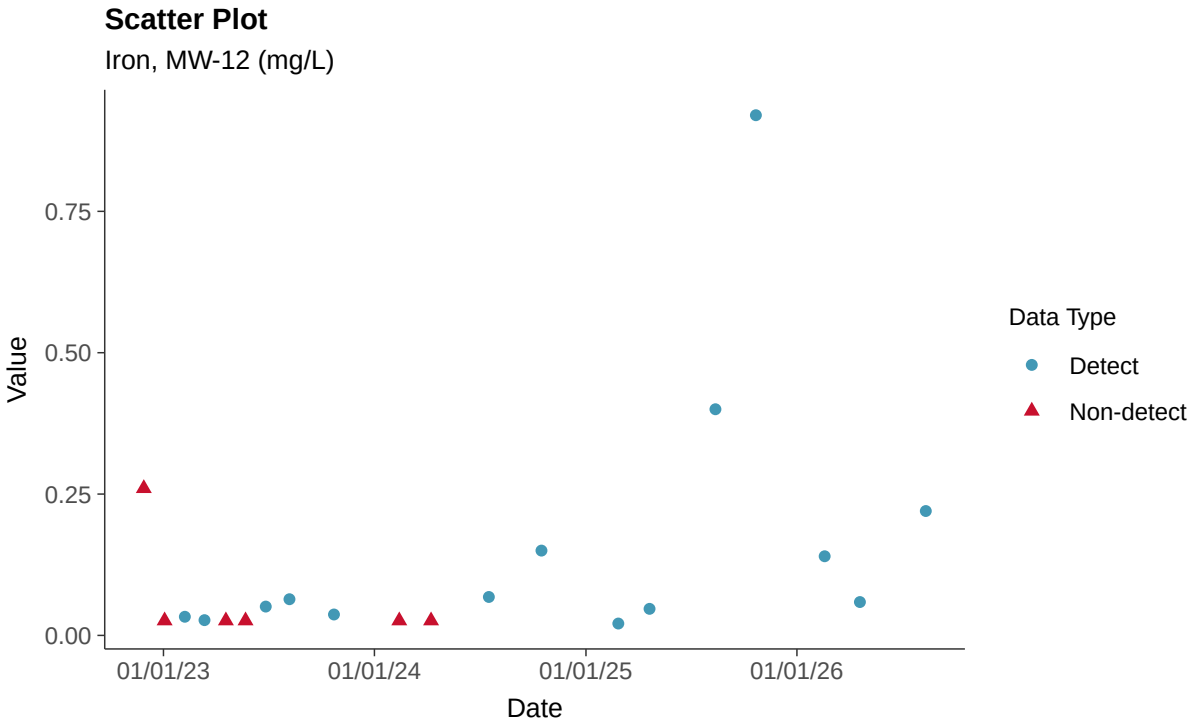
Trend Regression: Piecewise Linear-Linear-Linear

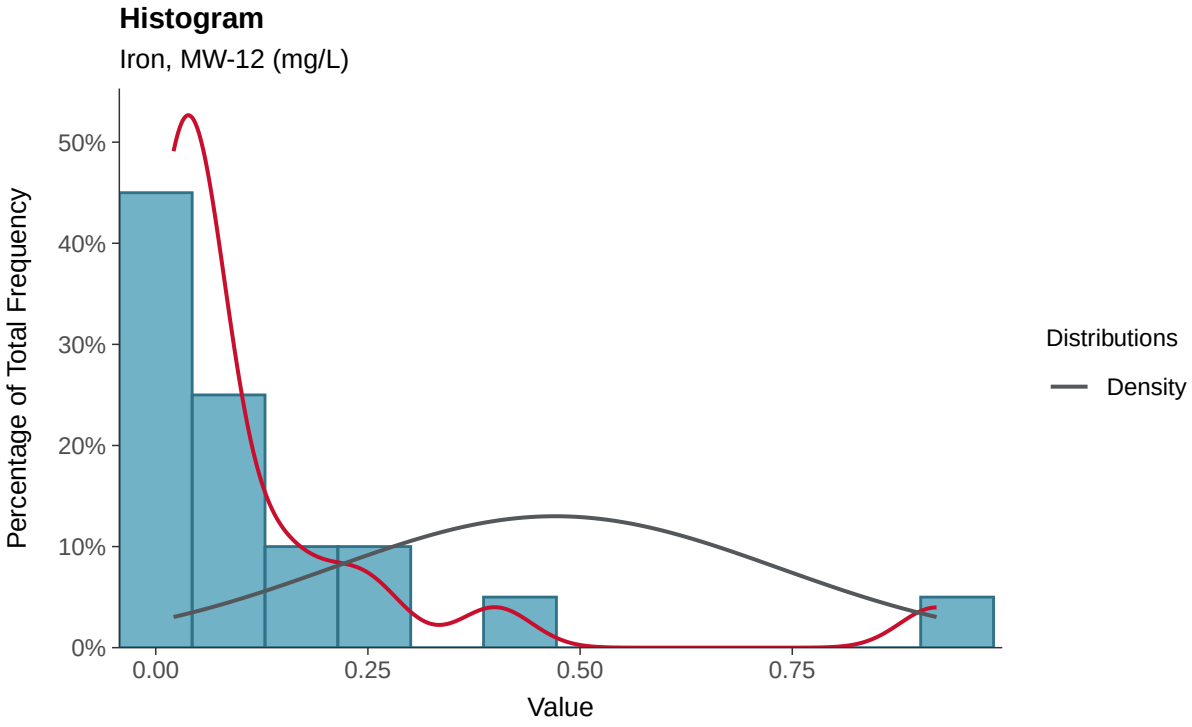
Copper, MW-12 (mg/L)



Part 115: Iron, MW-12

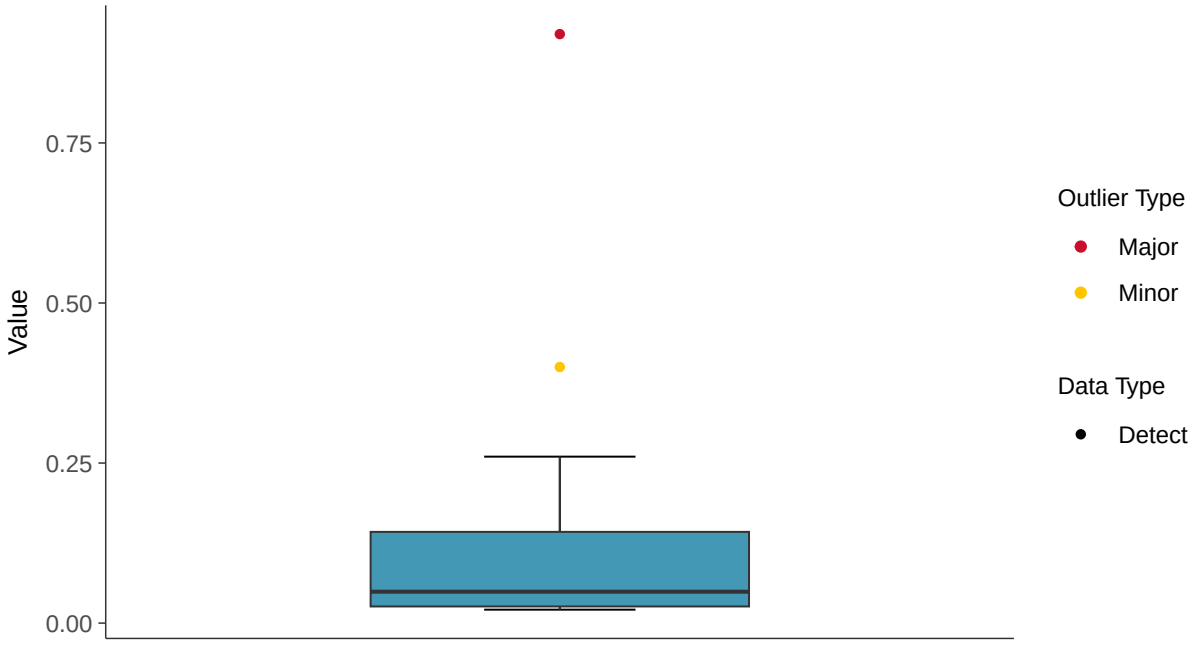
ID: 22_2_5_114





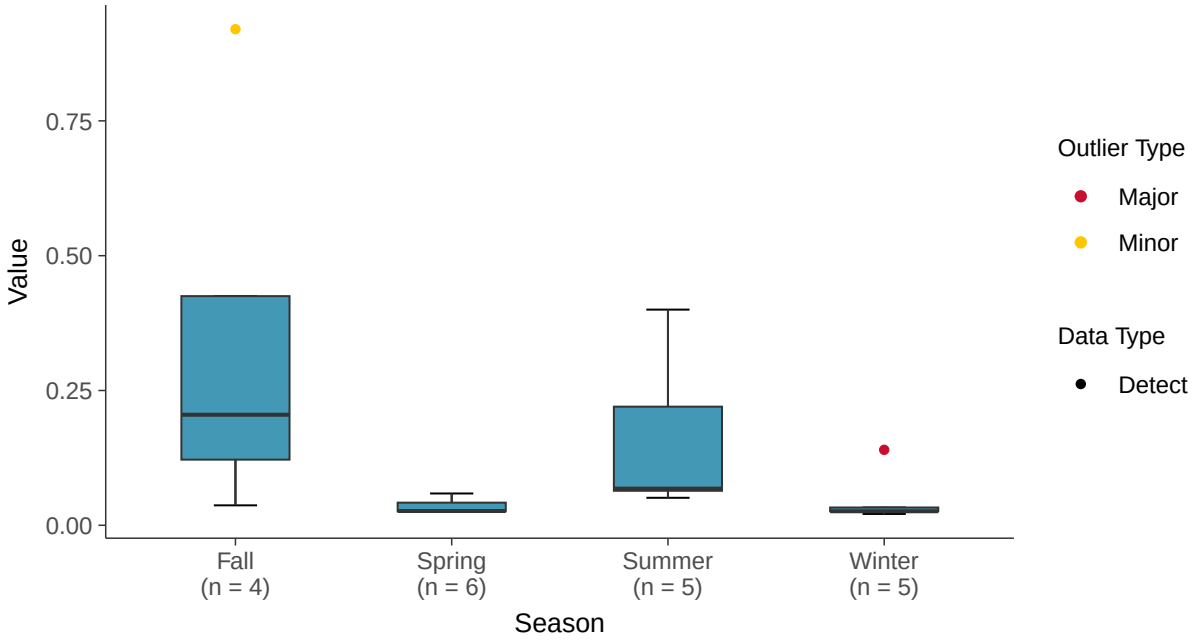
Boxplot

Iron, MW-12 (mg/L)



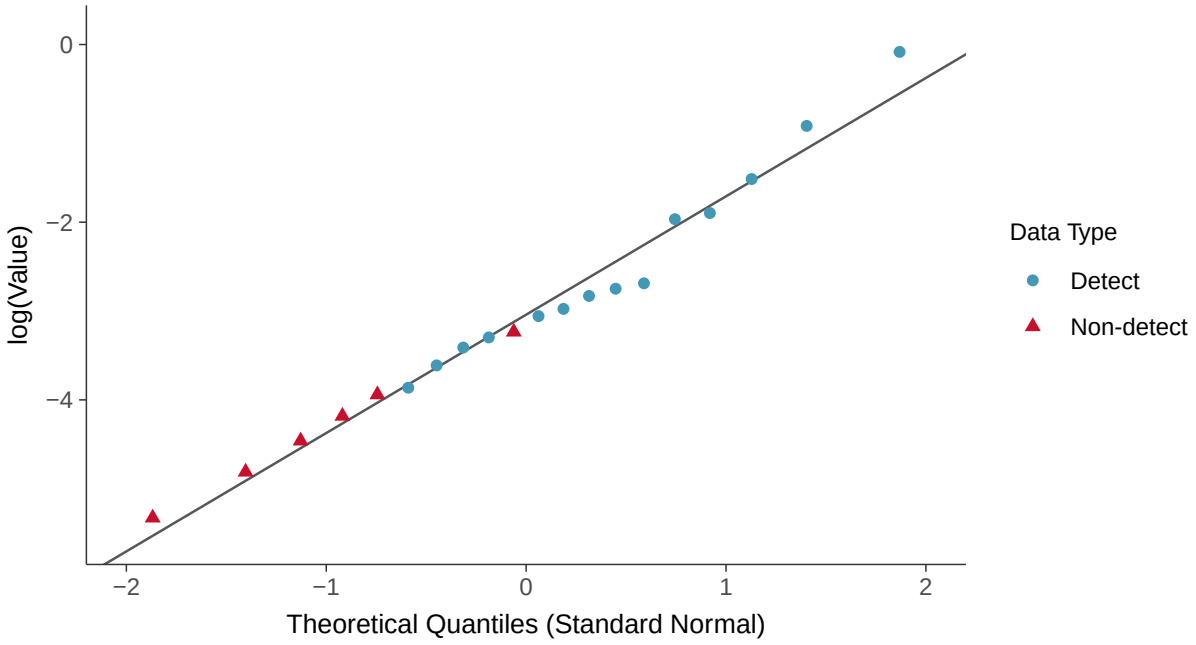
Boxplot by Season

Iron, MW-12 (mg/L)



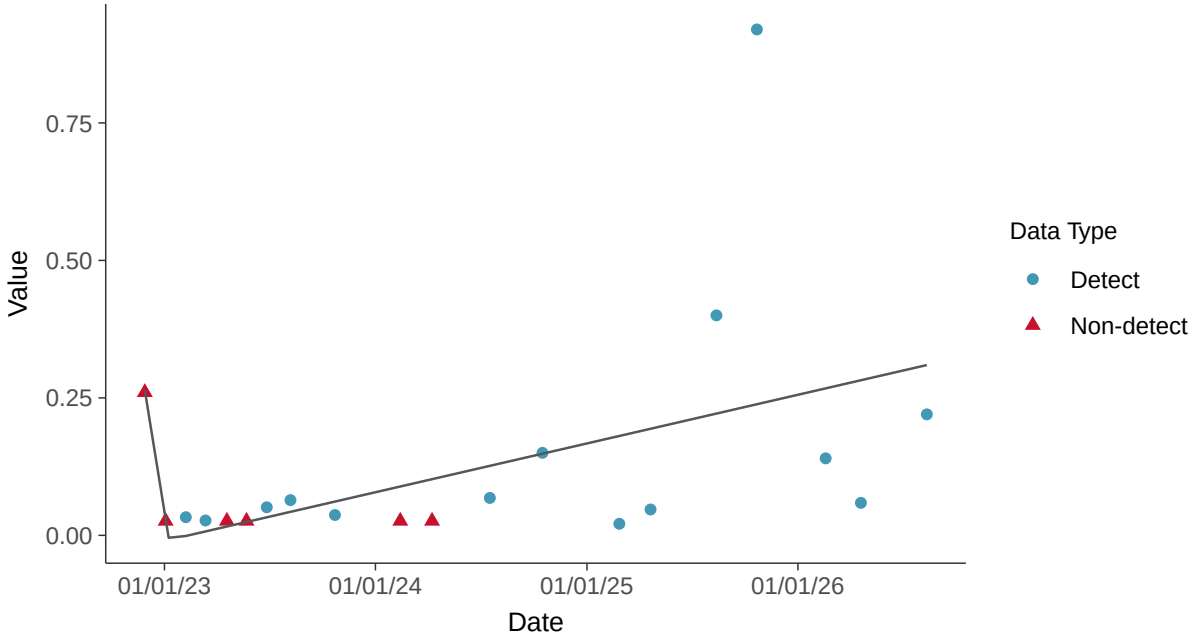
Lognormal Q-Q plot using ROS Imputed Estimates

Iron, MW-12 (mg/L)



Trend Regression: Piecewise Linear-Linear

Iron, MW-12 (mg/L)

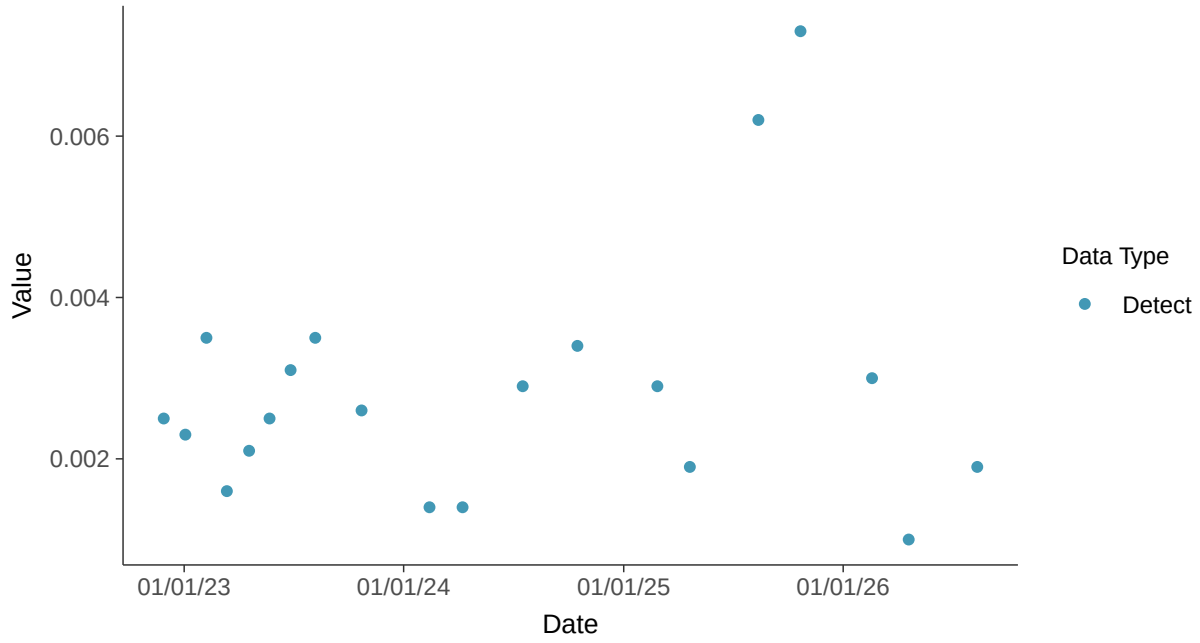


Part 115: Nickel, MW-12

ID: 22_2_5_119

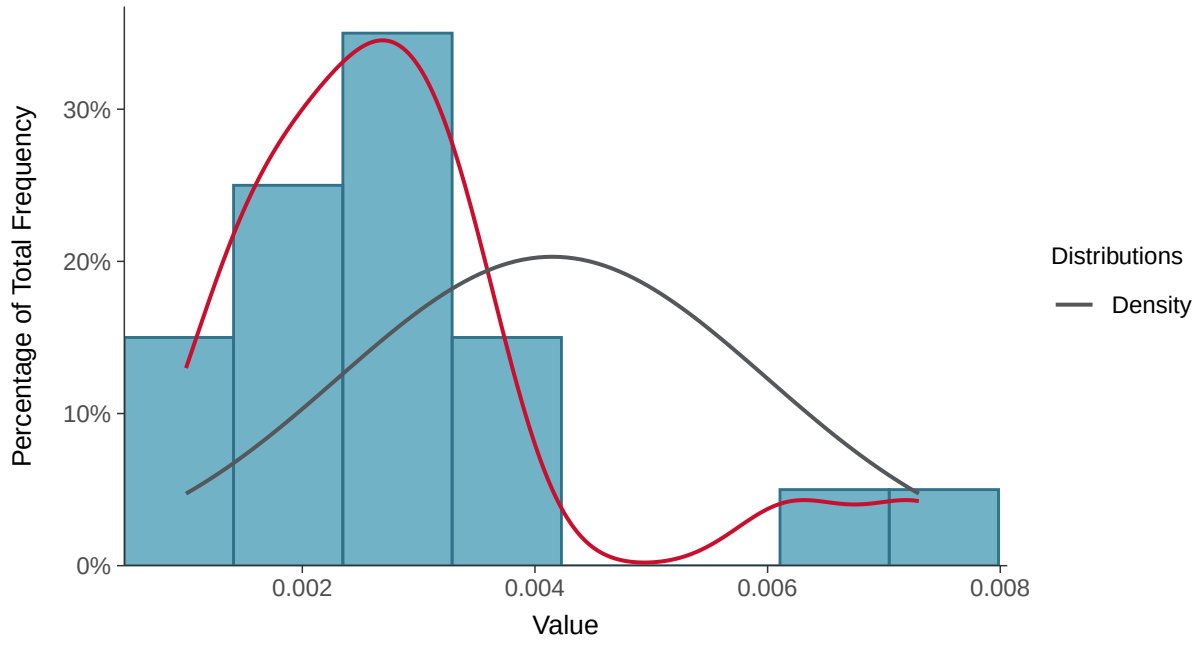
Scatter Plot

Nickel, MW-12 (mg/L)



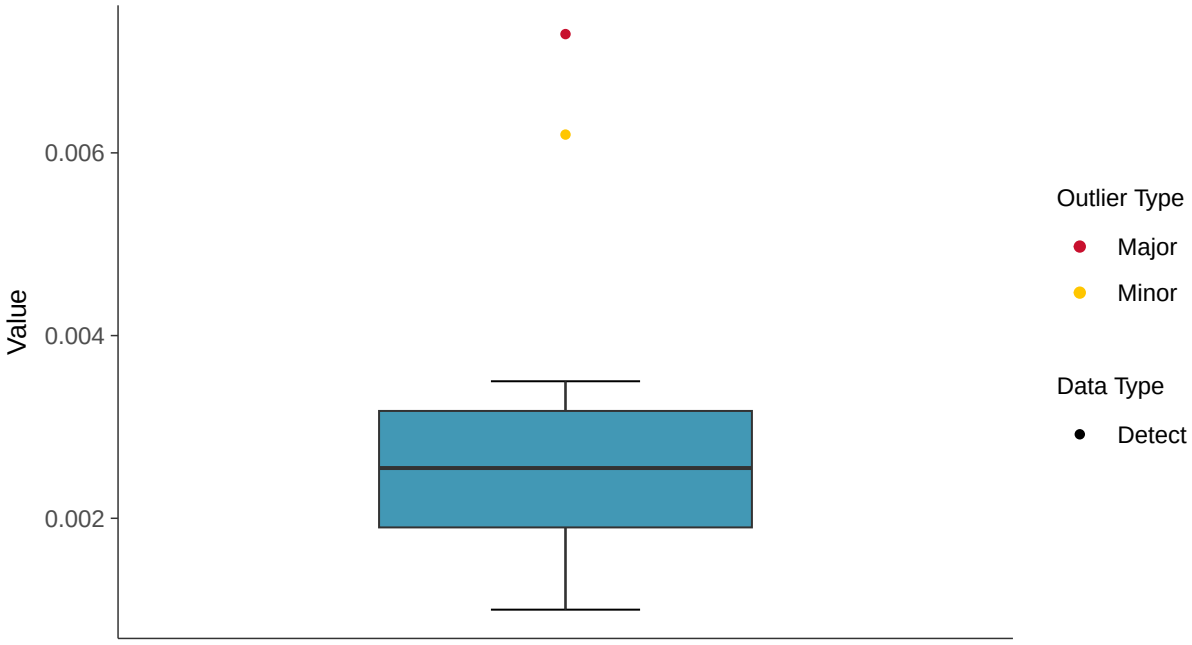
Histogram

Nickel, MW-12 (mg/L)



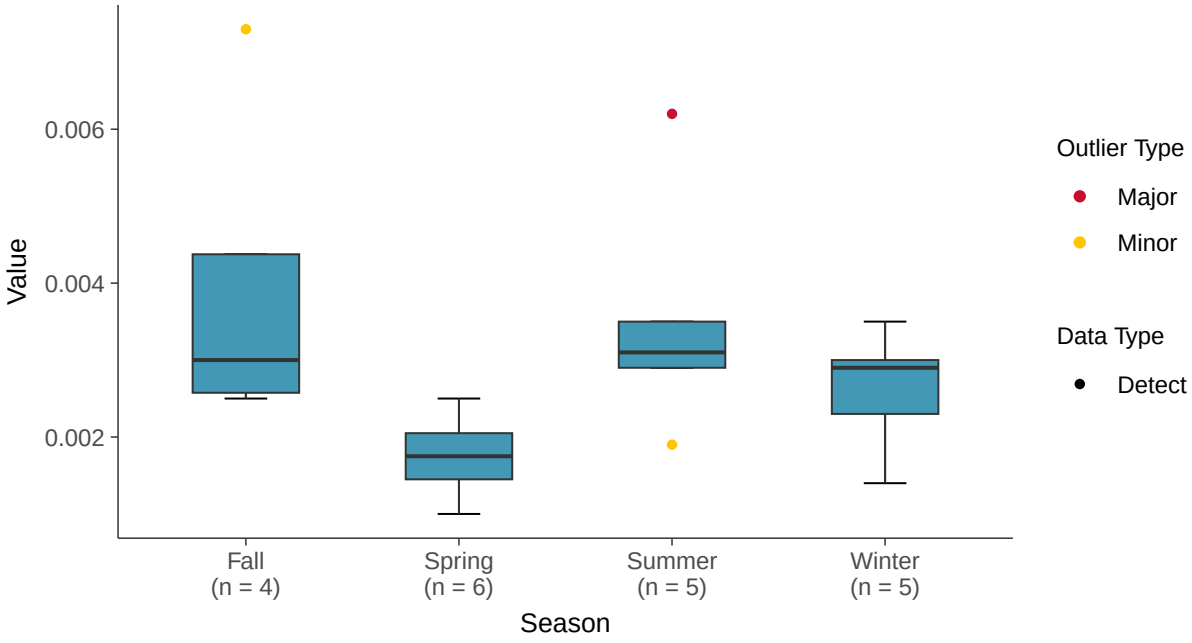
Boxplot

Nickel, MW-12 (mg/L)



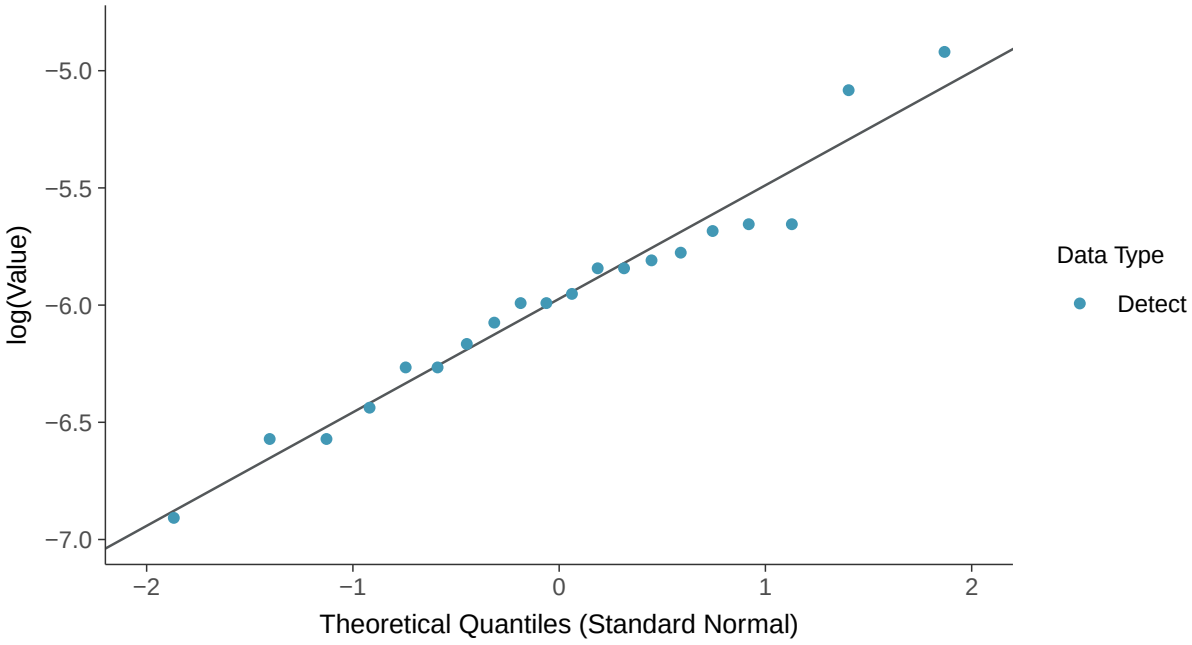
Boxplot by Season

Nickel, MW-12 (mg/L)



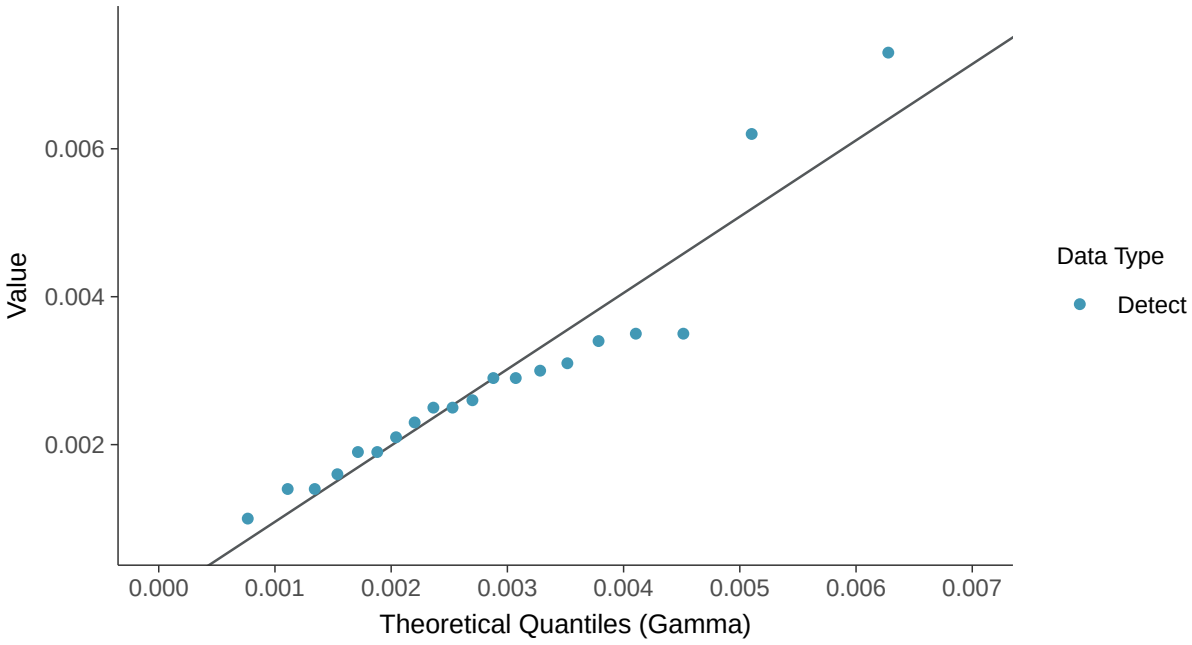
Lognormal Q-Q plot

Nickel, MW-12 (mg/L)



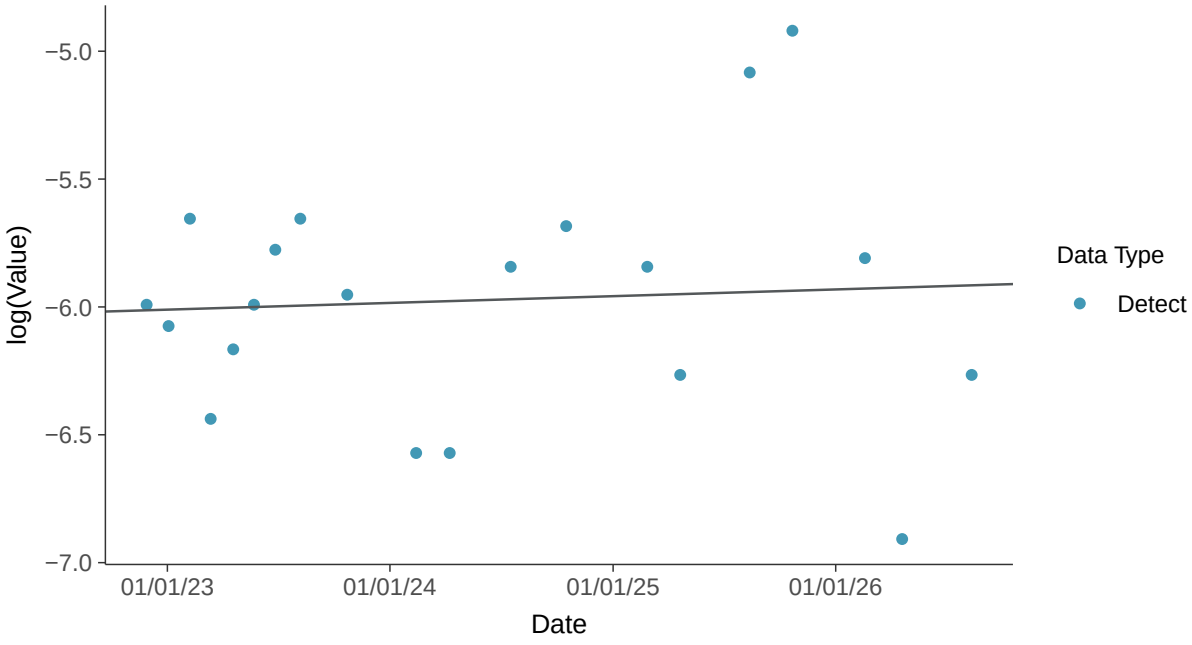
Gamma Q-Q plot

Nickel, MW-12 (mg/L)



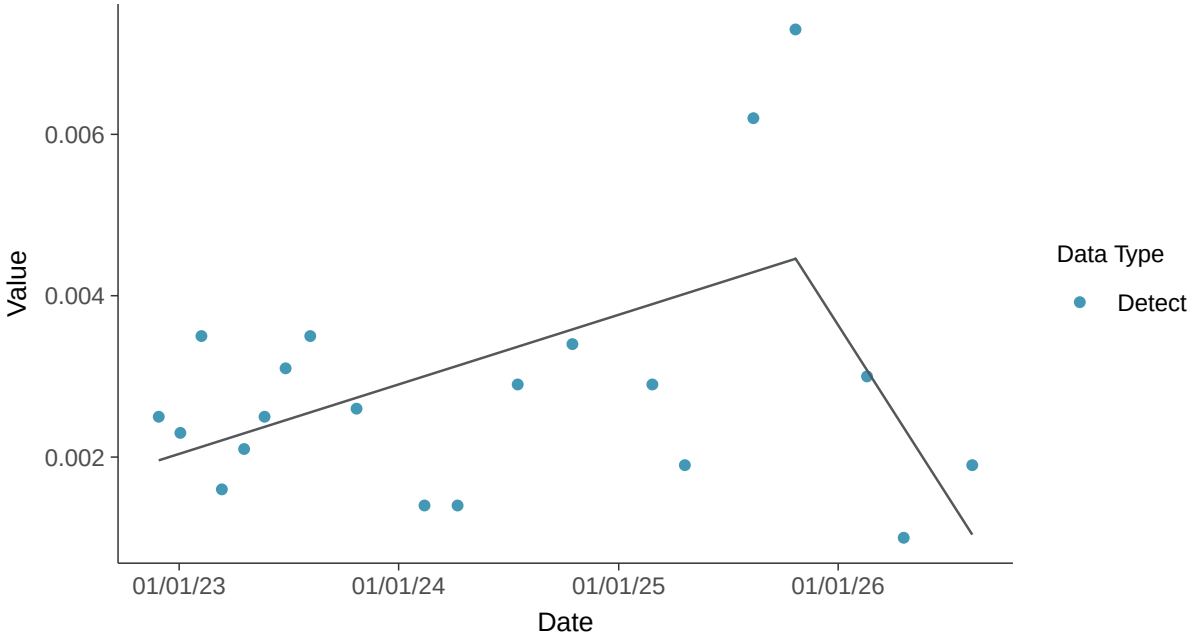
Trend Regression: Lognormal MLE

Nickel, MW-12 (mg/L)



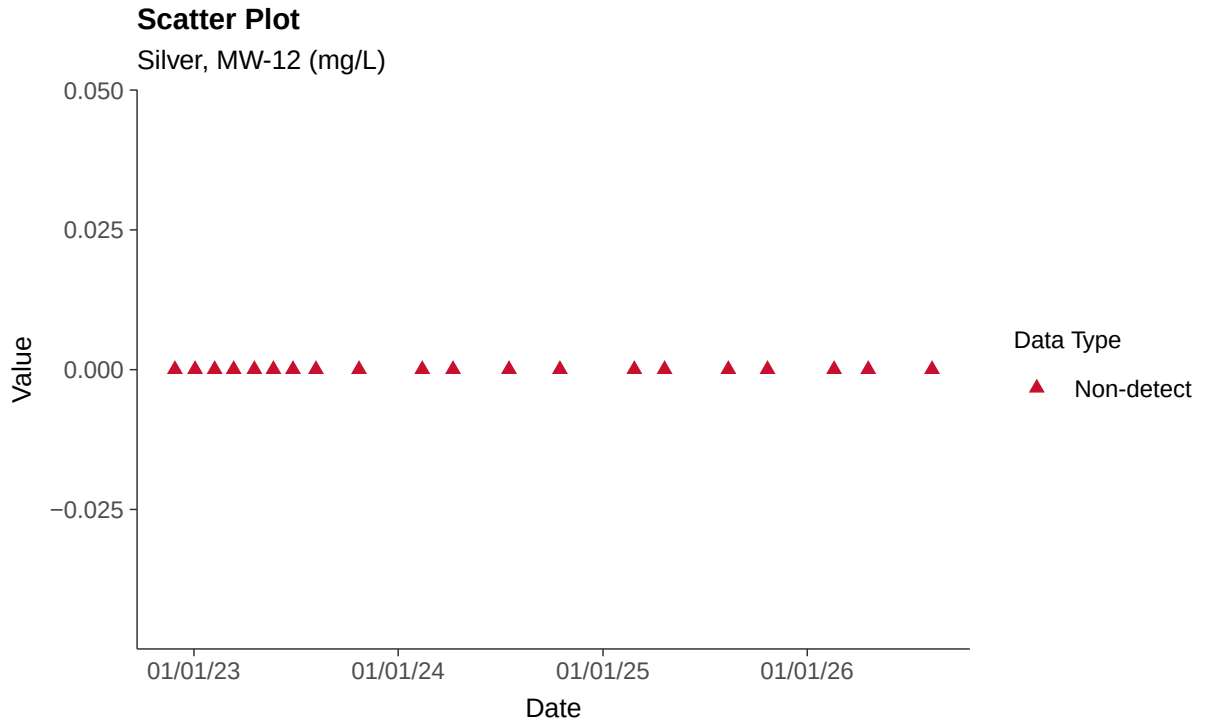
Trend Regression: Piecewise Linear-Linear

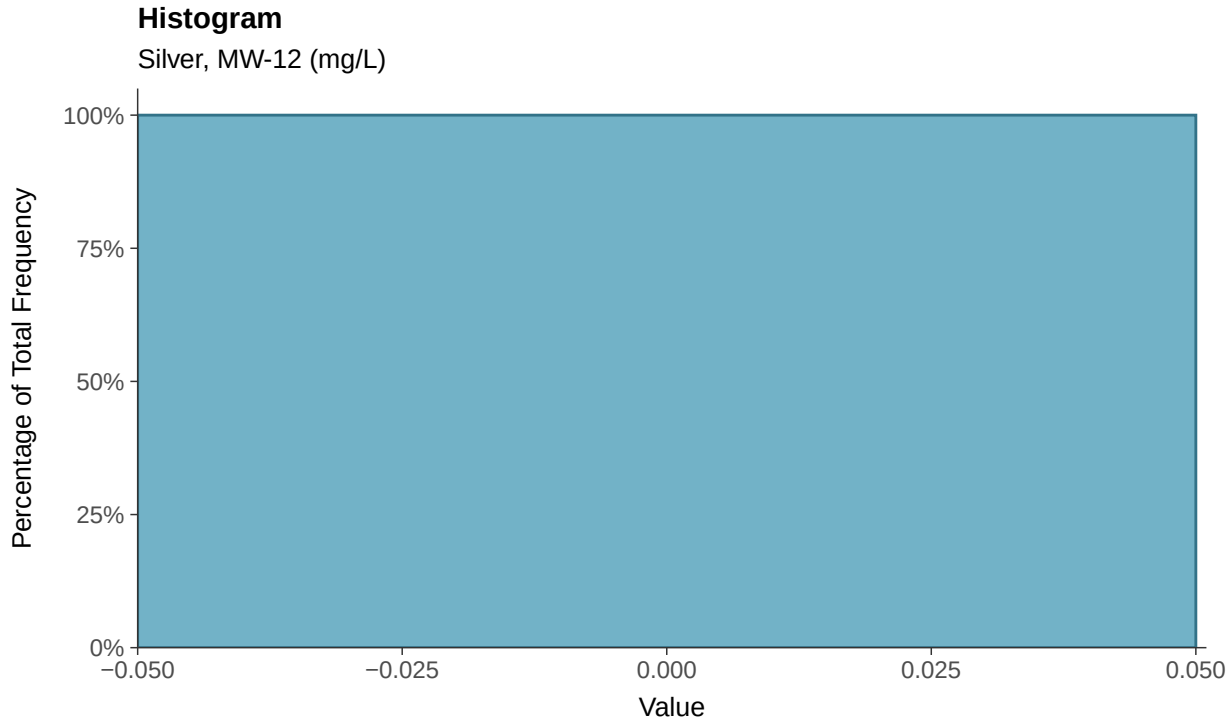
Nickel, MW-12 (mg/L)



Part 115: Silver, MW-12

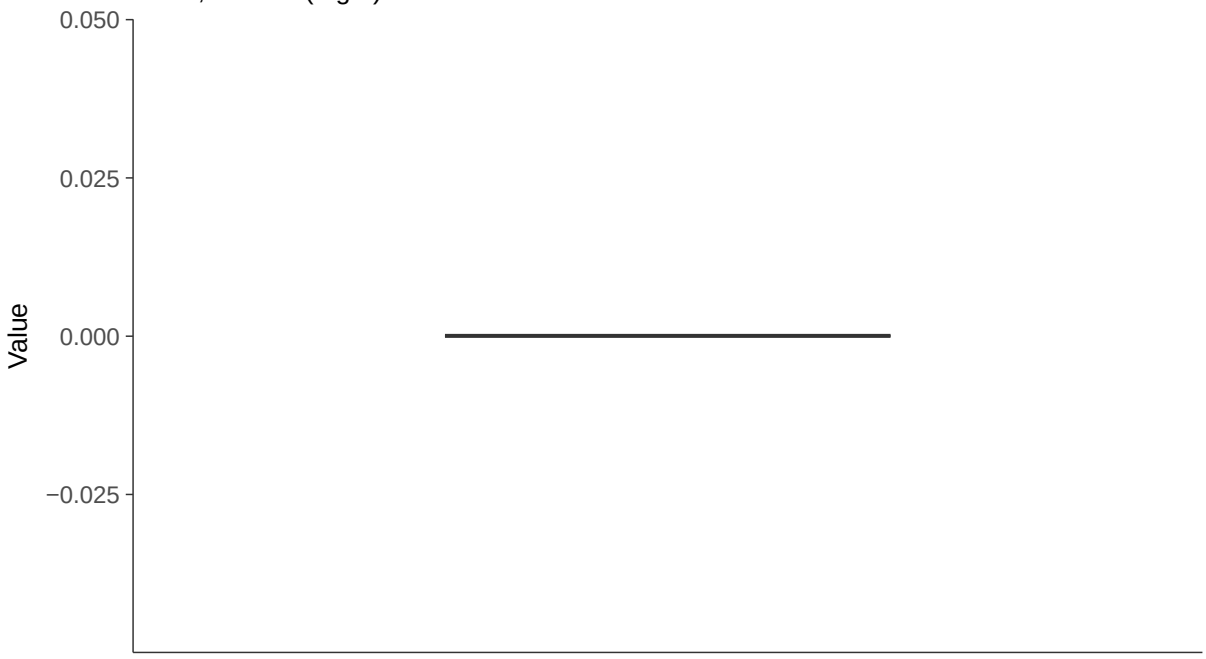
ID: 22_2_5_123





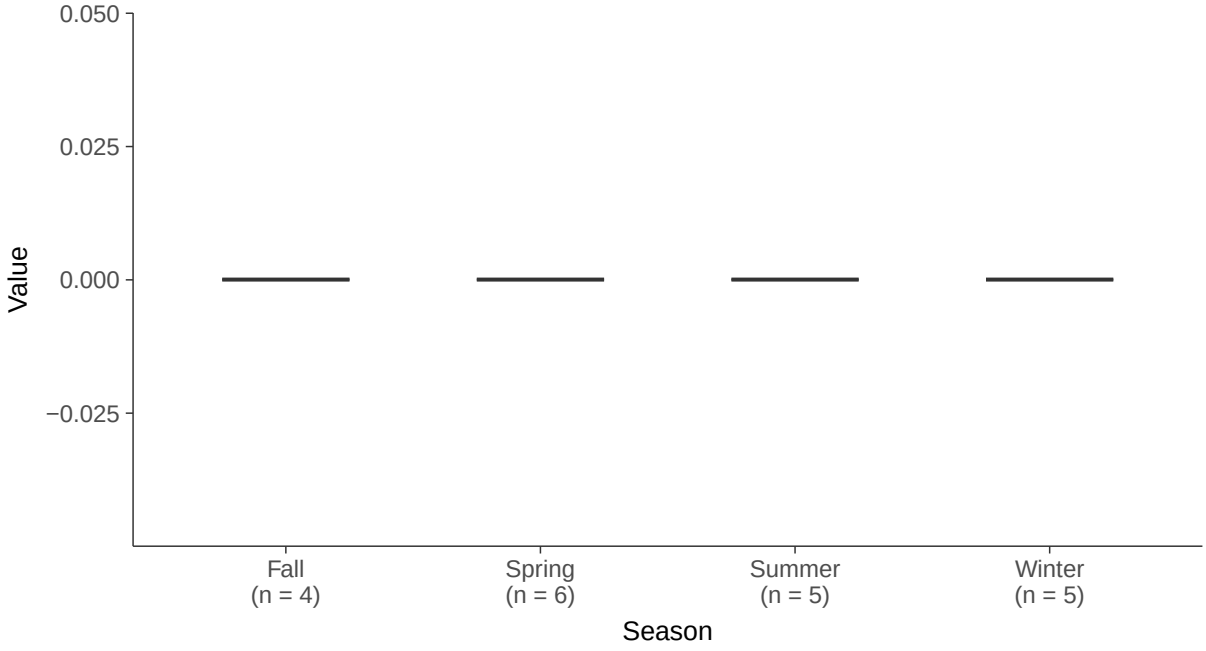
Boxplot

Silver, MW-12 (mg/L)



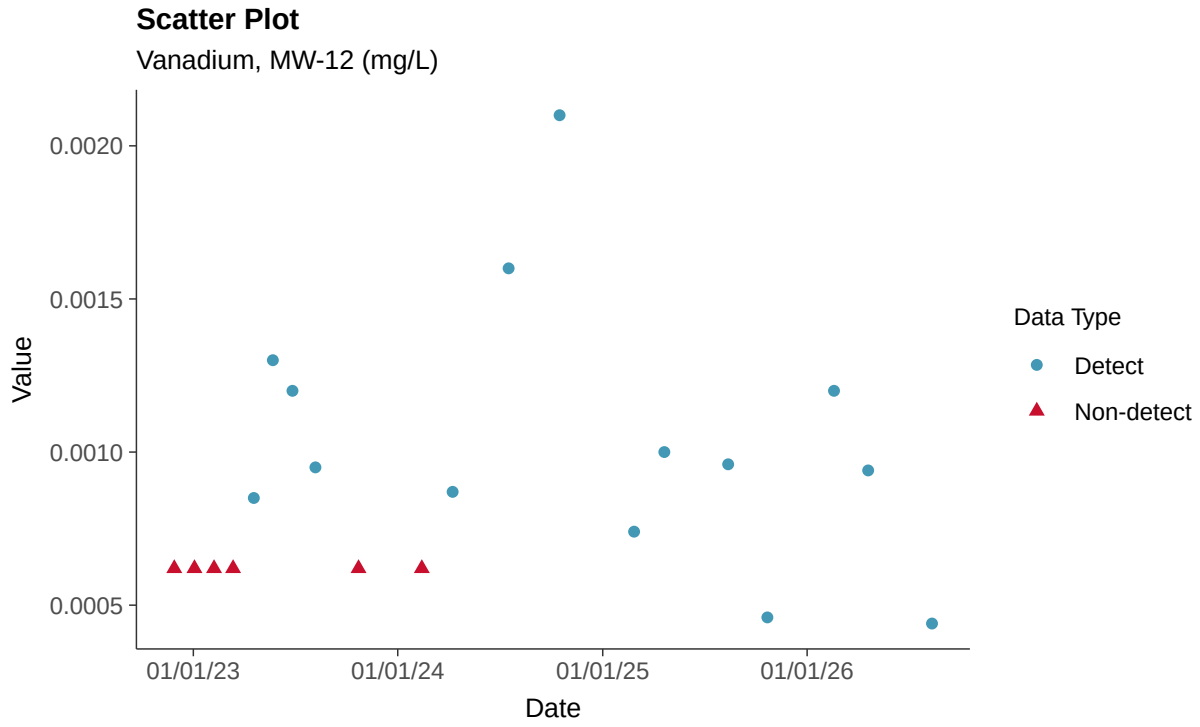
Boxplot by Season

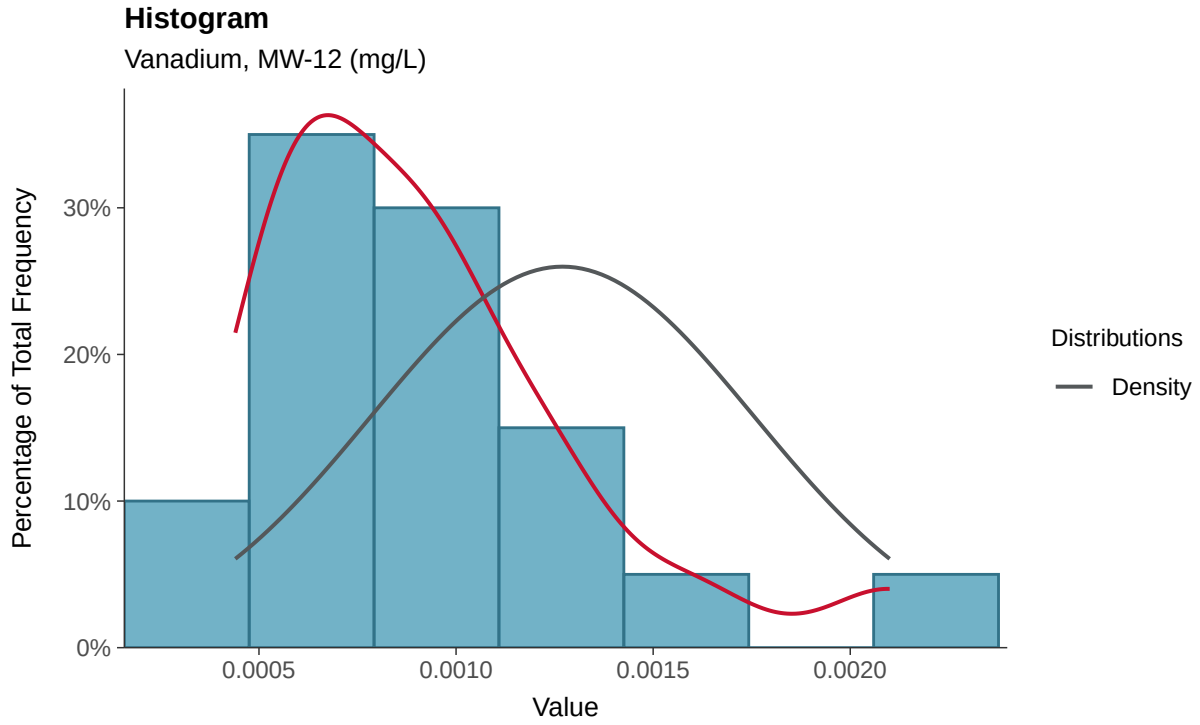
Silver, MW-12 (mg/L)



Part 115: Vanadium, MW-12

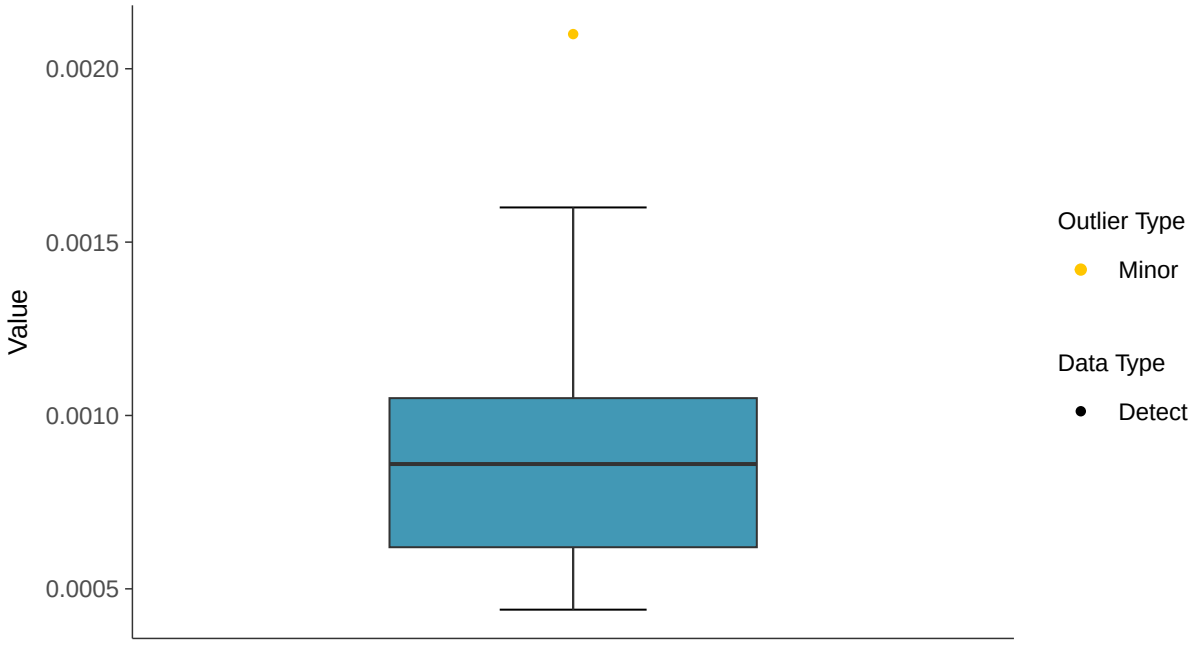
ID: 22_2_5_128





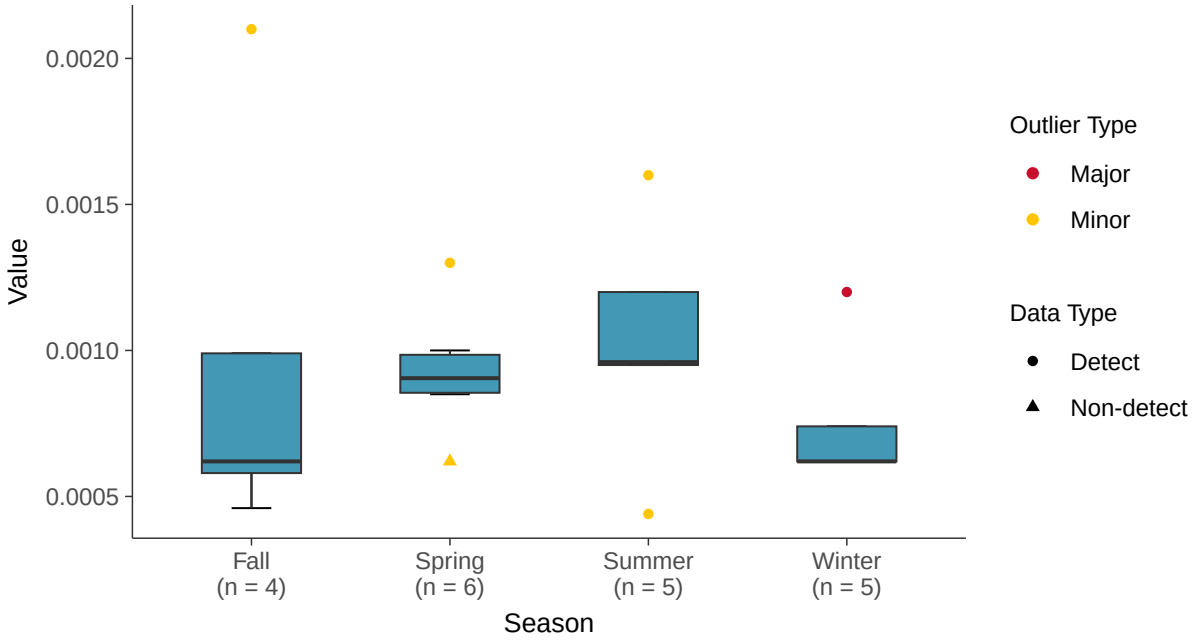
Boxplot

Vanadium, MW-12 (mg/L)



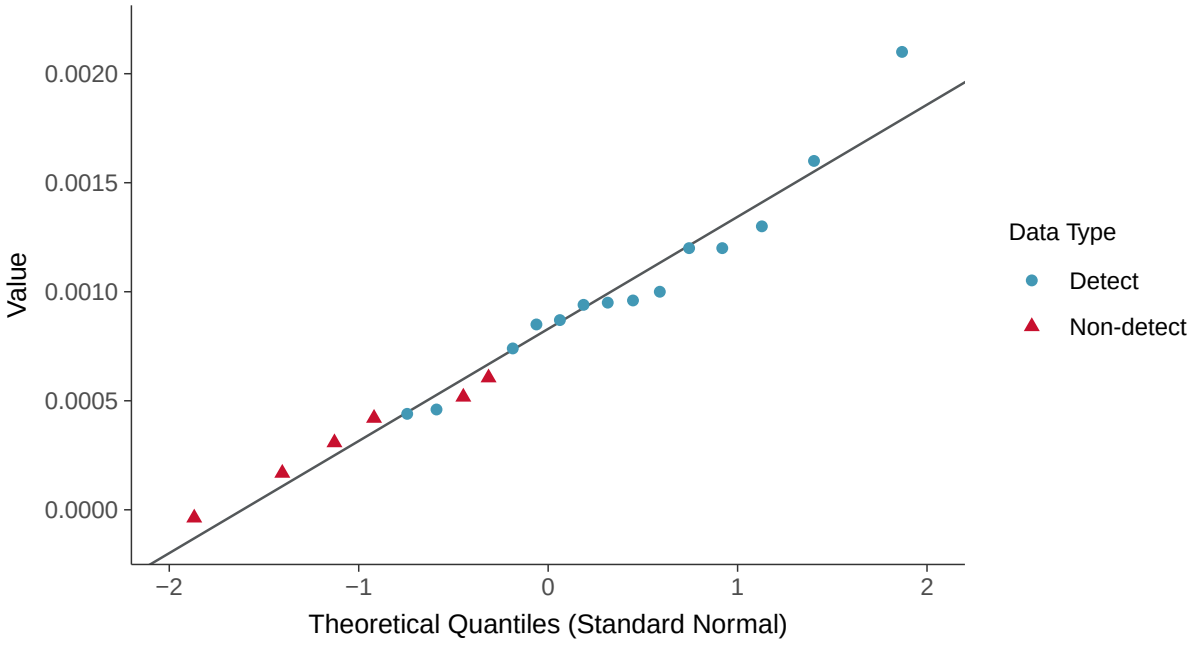
Boxplot by Season

Vanadium, MW-12 (mg/L)



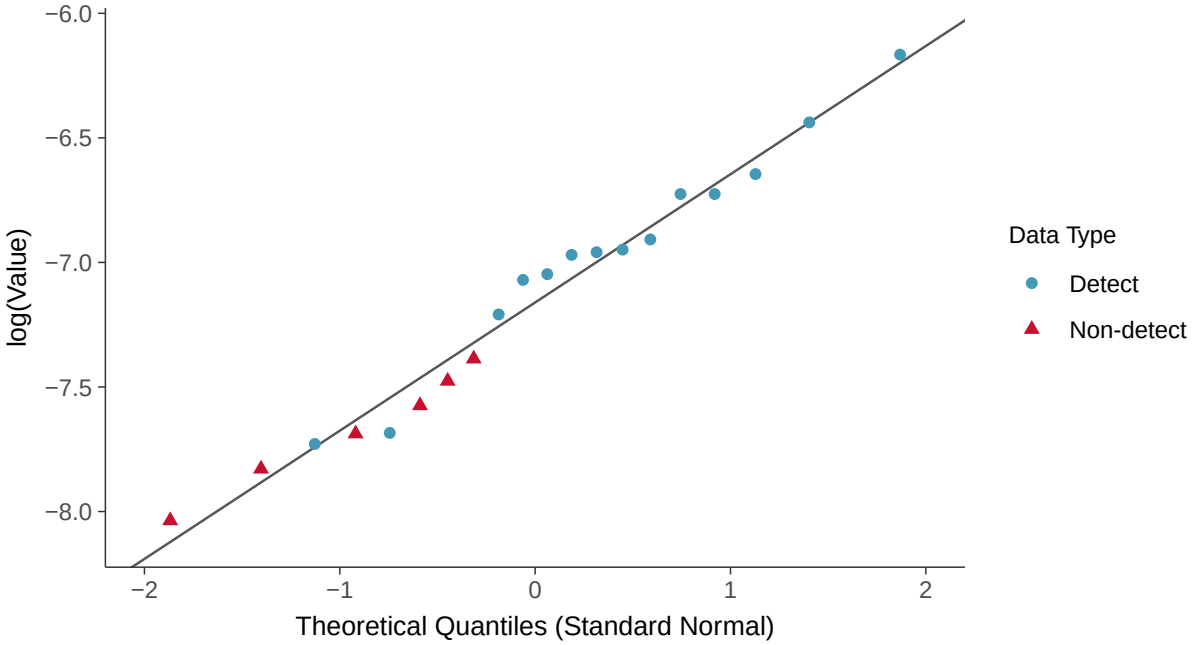
Normal Q-Q plot using ROS Imputed Estimates

Vanadium, MW-12 (mg/L)



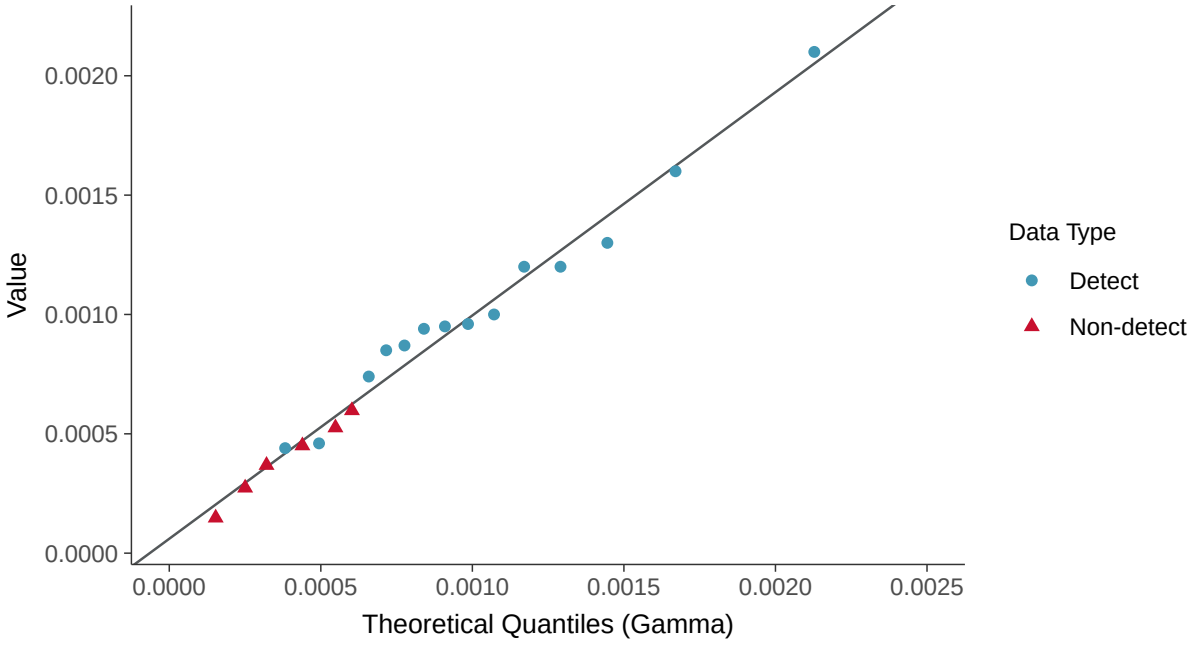
Lognormal Q-Q plot using ROS Imputed Estimates

Vanadium, MW-12 (mg/L)



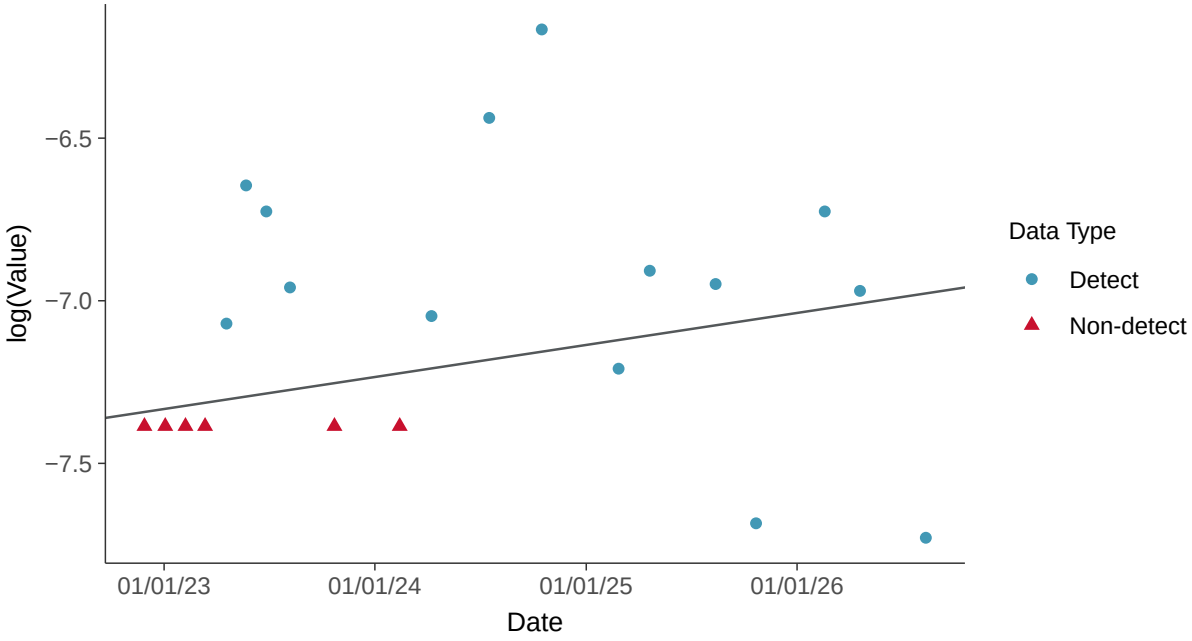
Gamma Q-Q plot using ROS Imputed Estimates

Vanadium, MW-12 (mg/L)



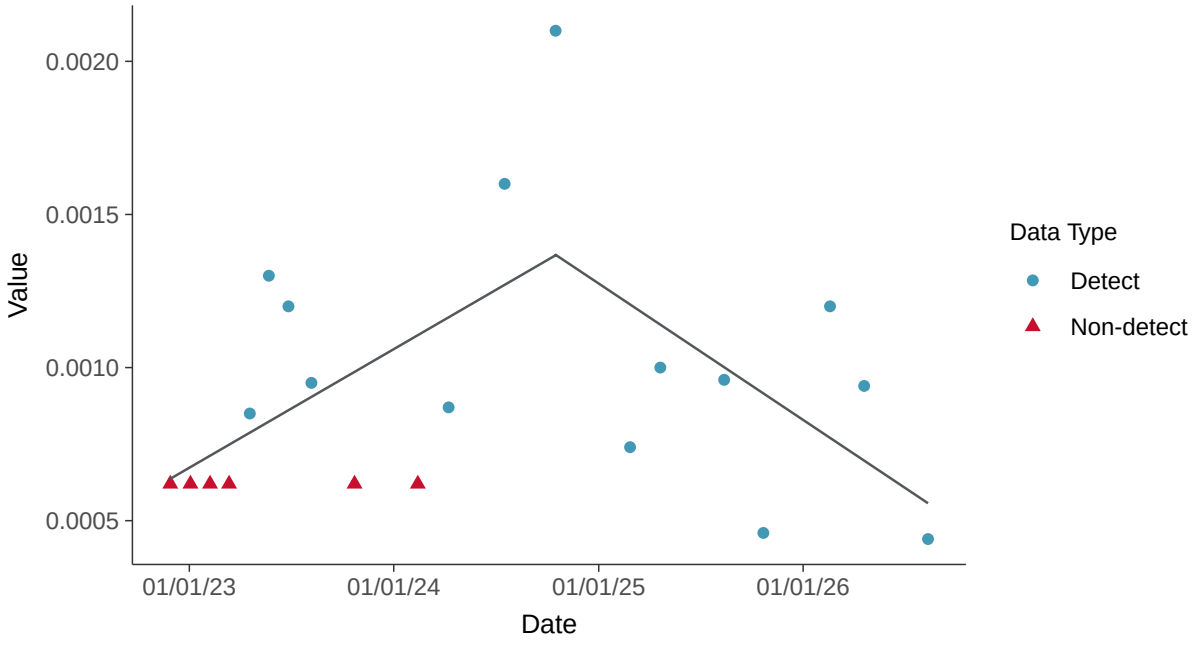
Trend Regression: Lognormal MLE

Vanadium, MW-12 (mg/L)



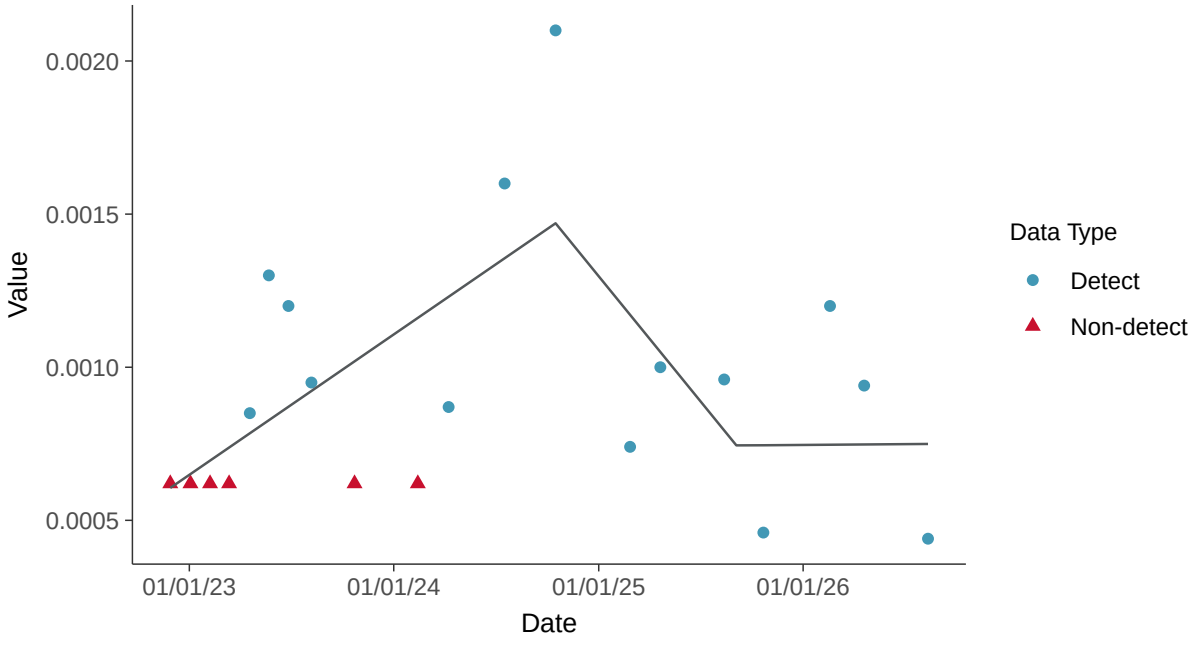
Trend Regression: Piecewise Linear-Linear

Vanadium, MW-12 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Vanadium, MW-12 (mg/L)

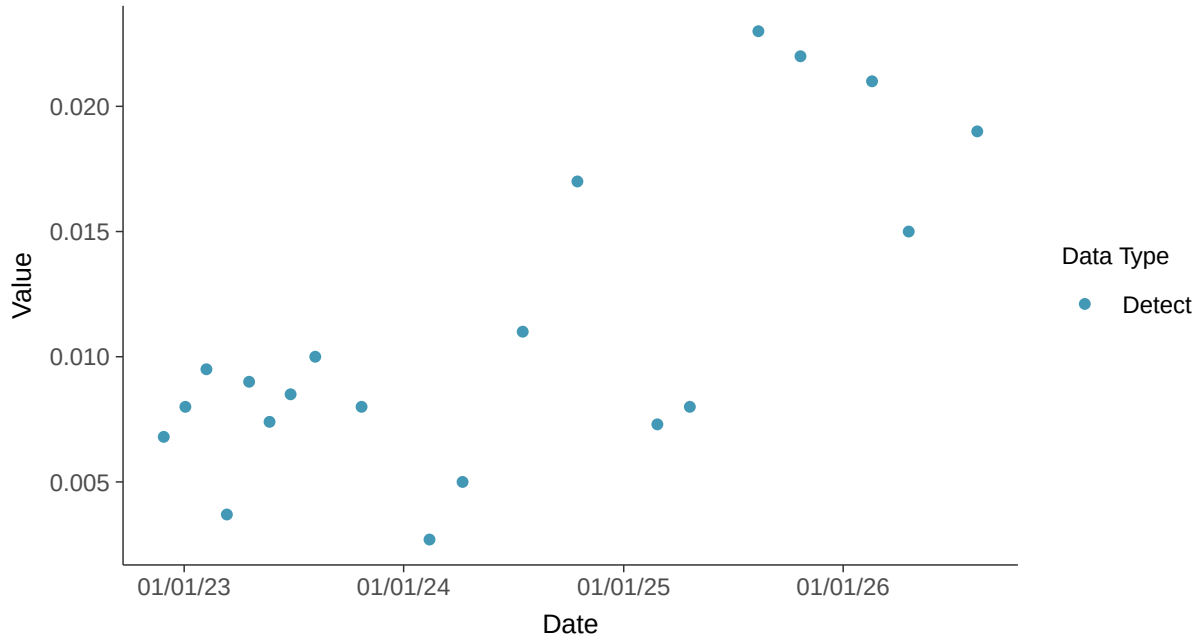


Part 115: Zinc, MW-12

ID: 22_2_5_129

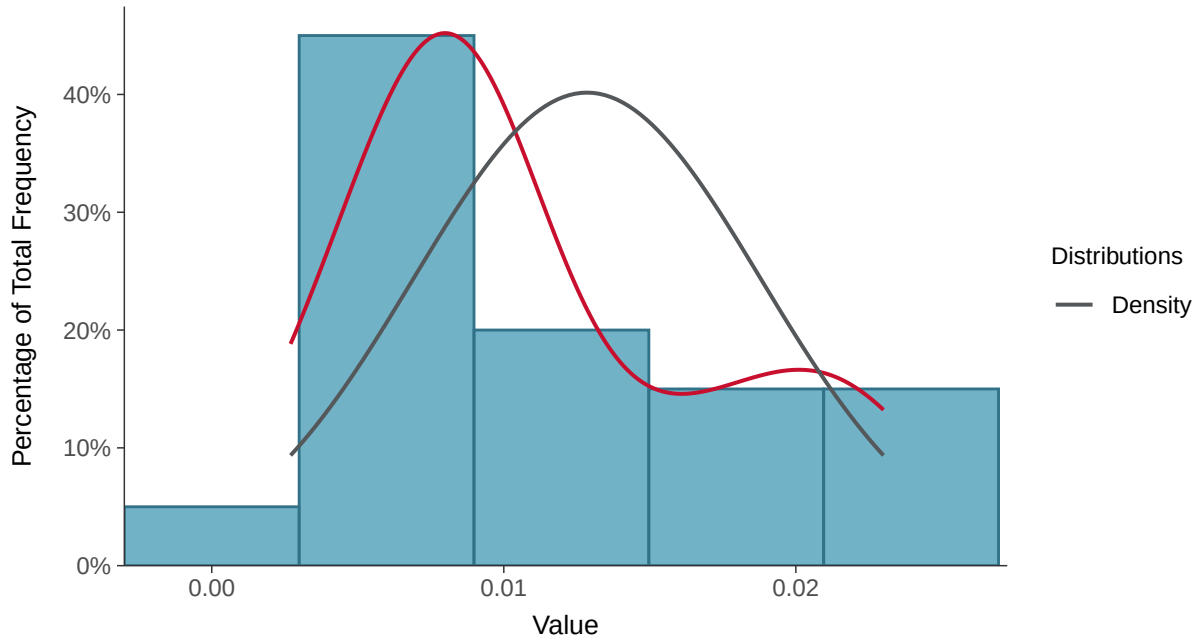
Scatter Plot

Zinc, MW-12 (mg/L)



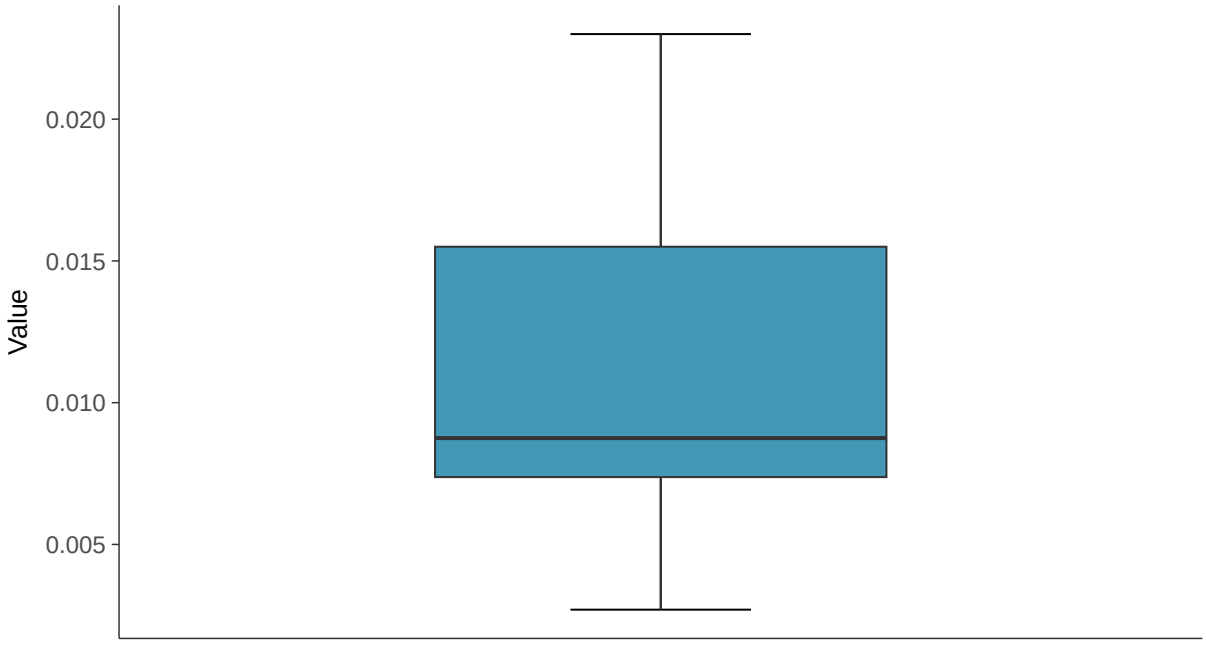
Histogram

Zinc, MW-12 (mg/L)



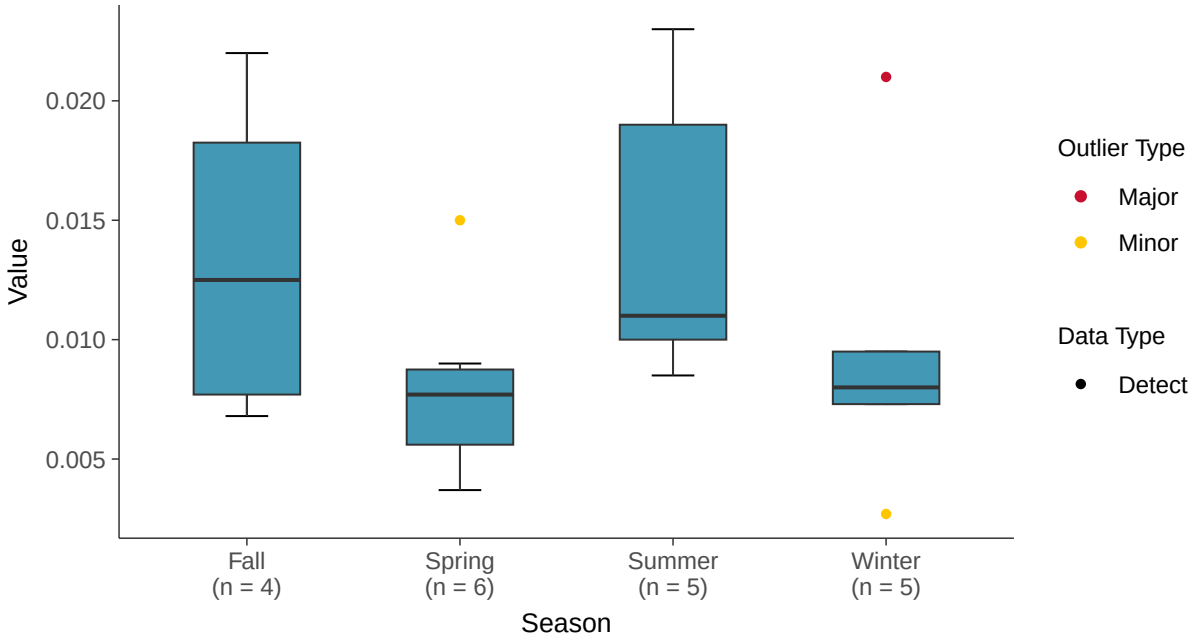
Boxplot

Zinc, MW-12 (mg/L)



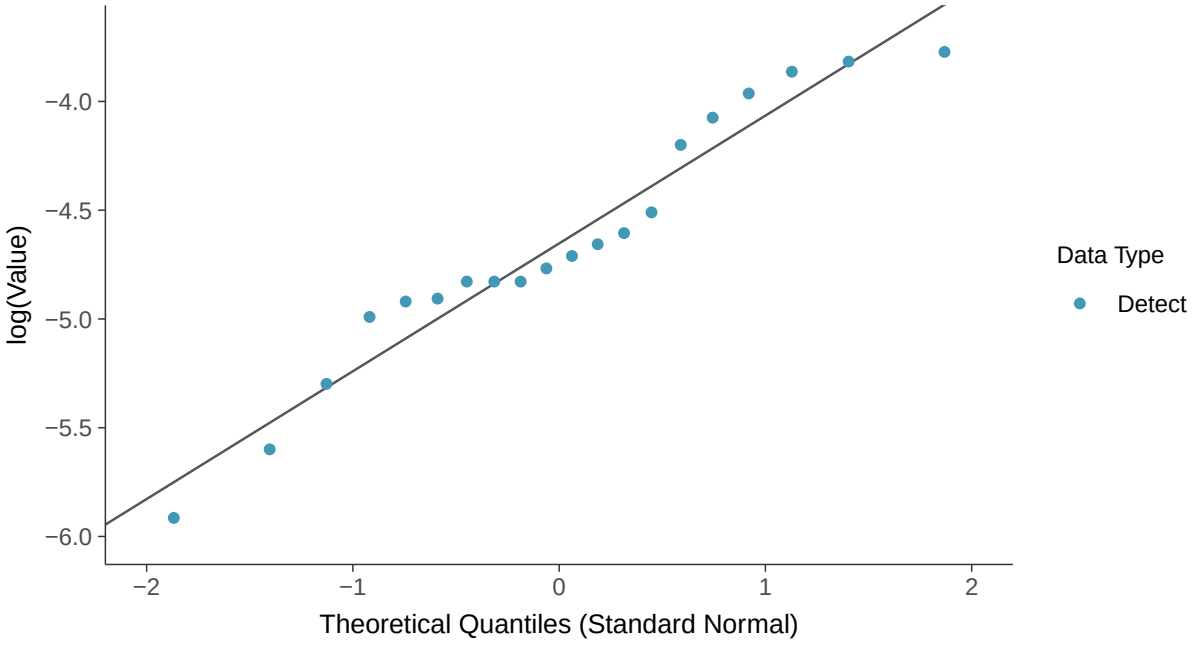
Boxplot by Season

Zinc, MW-12 (mg/L)



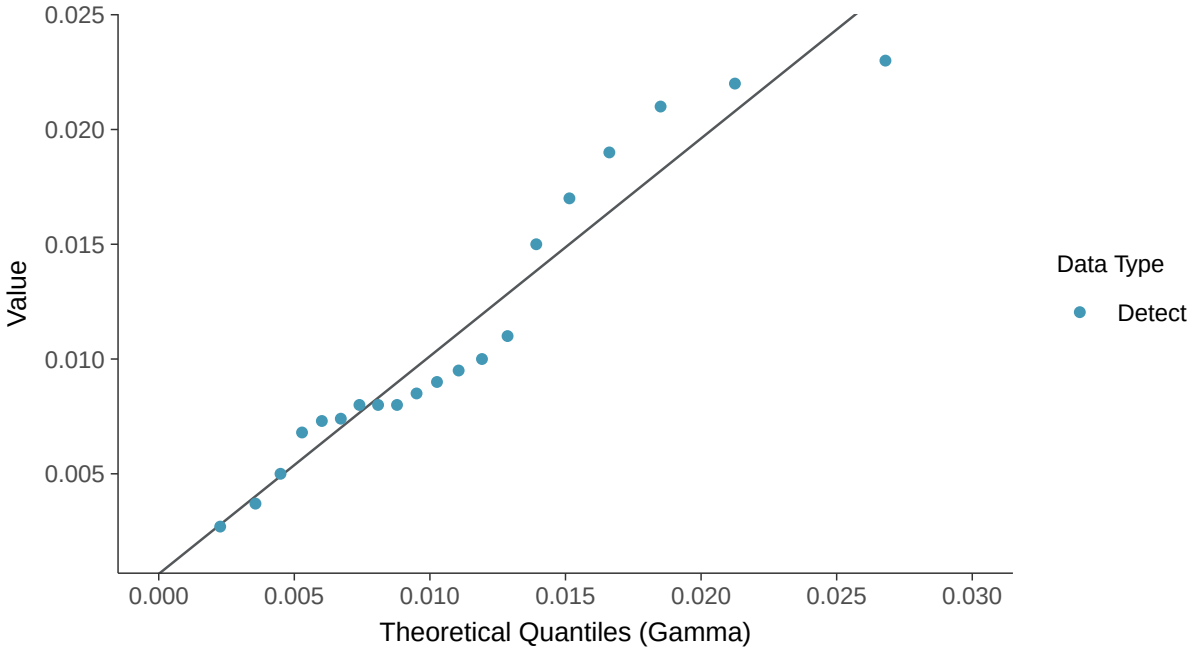
Lognormal Q-Q plot

Zinc, MW-12 (mg/L)



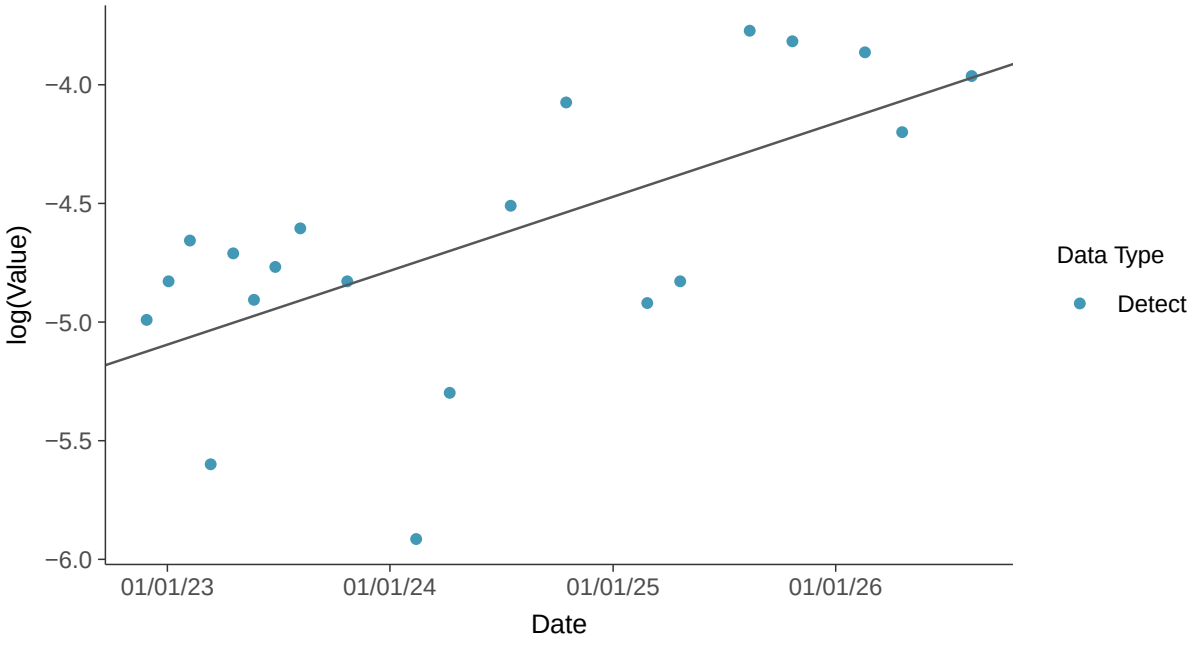
Gamma Q-Q plot

Zinc, MW-12 (mg/L)



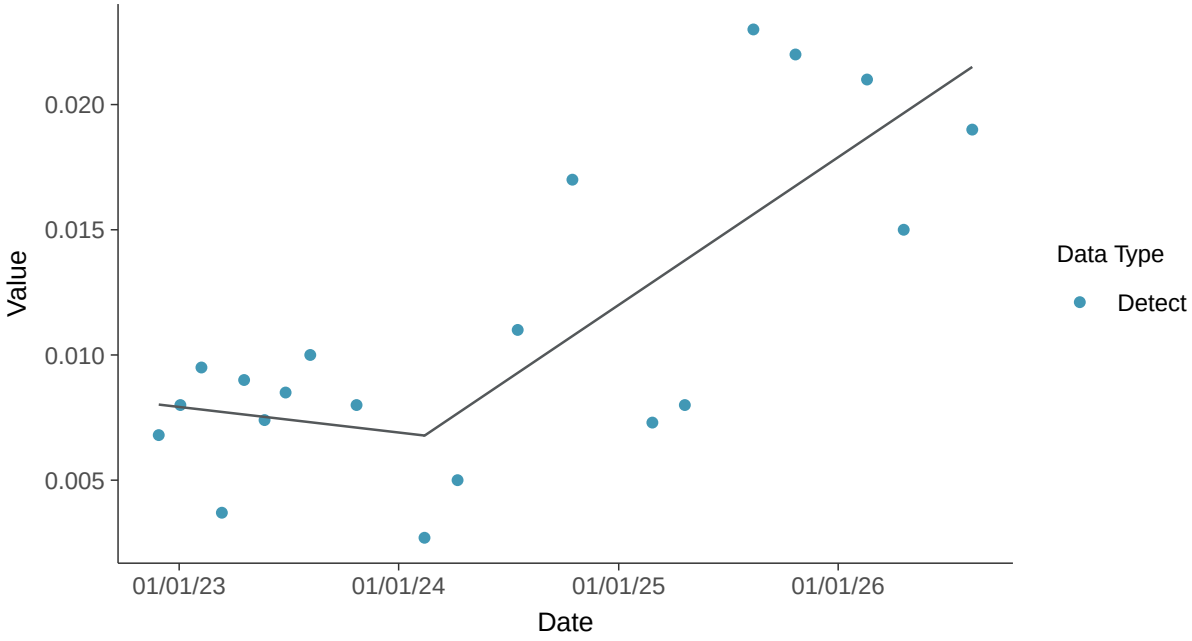
Trend Regression: Lognormal MLE

Zinc, MW-12 (mg/L)



Trend Regression: Piecewise Linear-Linear

Zinc, MW-12 (mg/L)

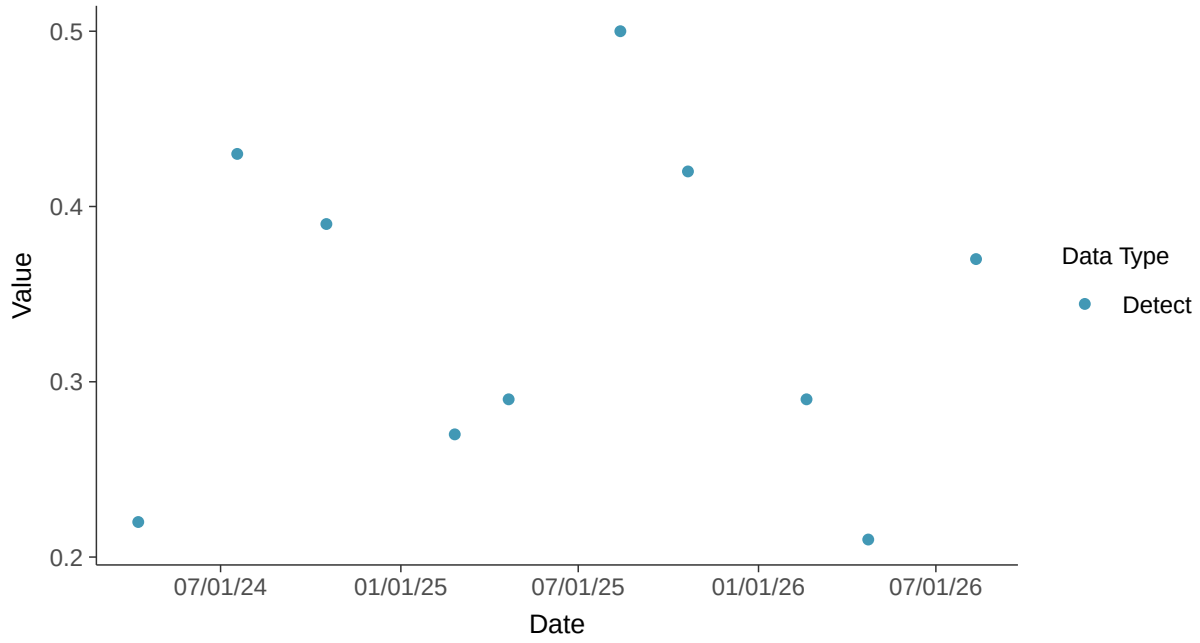


Appendix III: Boron, MW-16

ID: 26_1_3_105

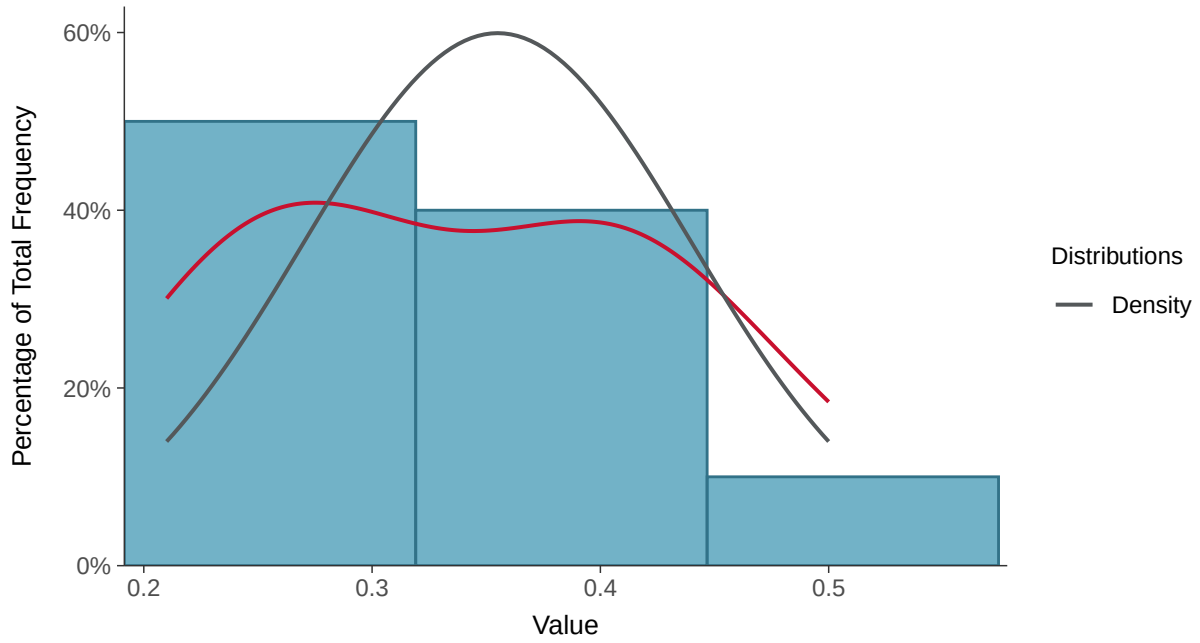
Scatter Plot

Boron, MW-16 (mg/L)



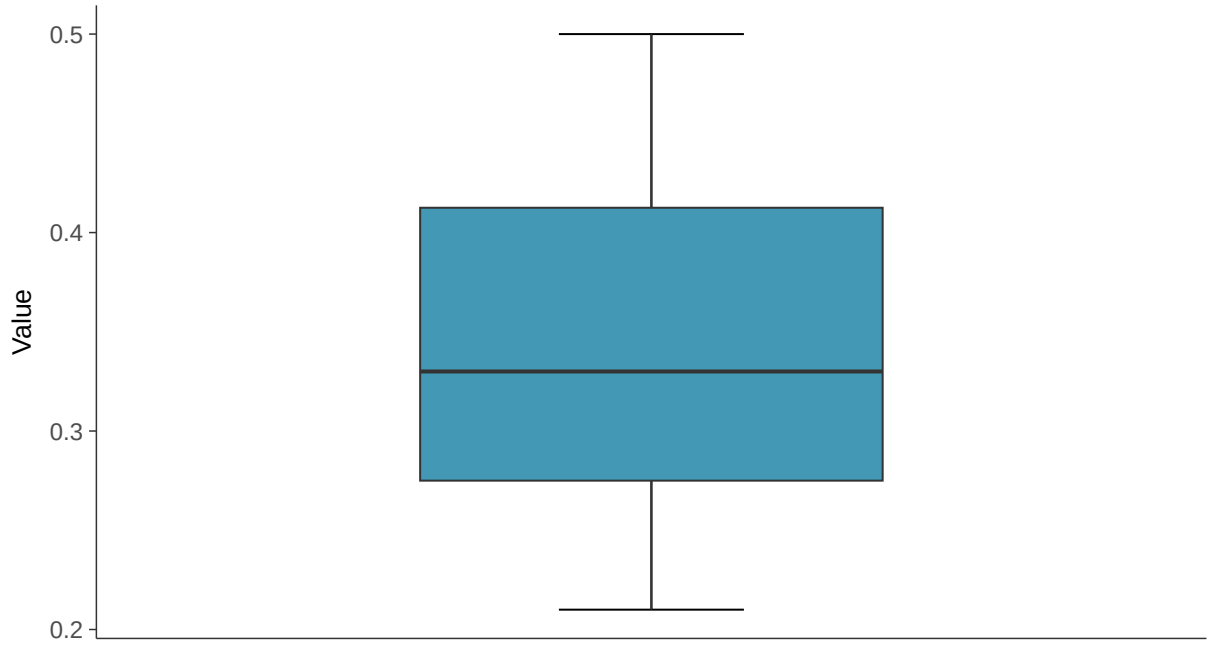
Histogram

Boron, MW-16 (mg/L)



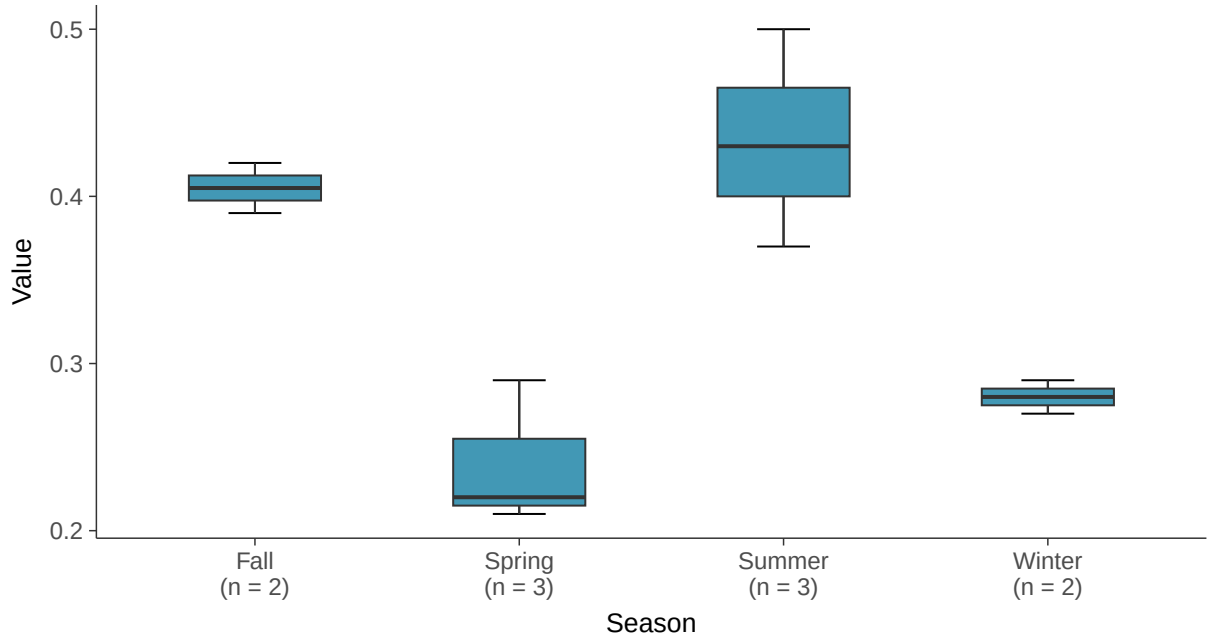
Boxplot

Boron, MW-16 (mg/L)



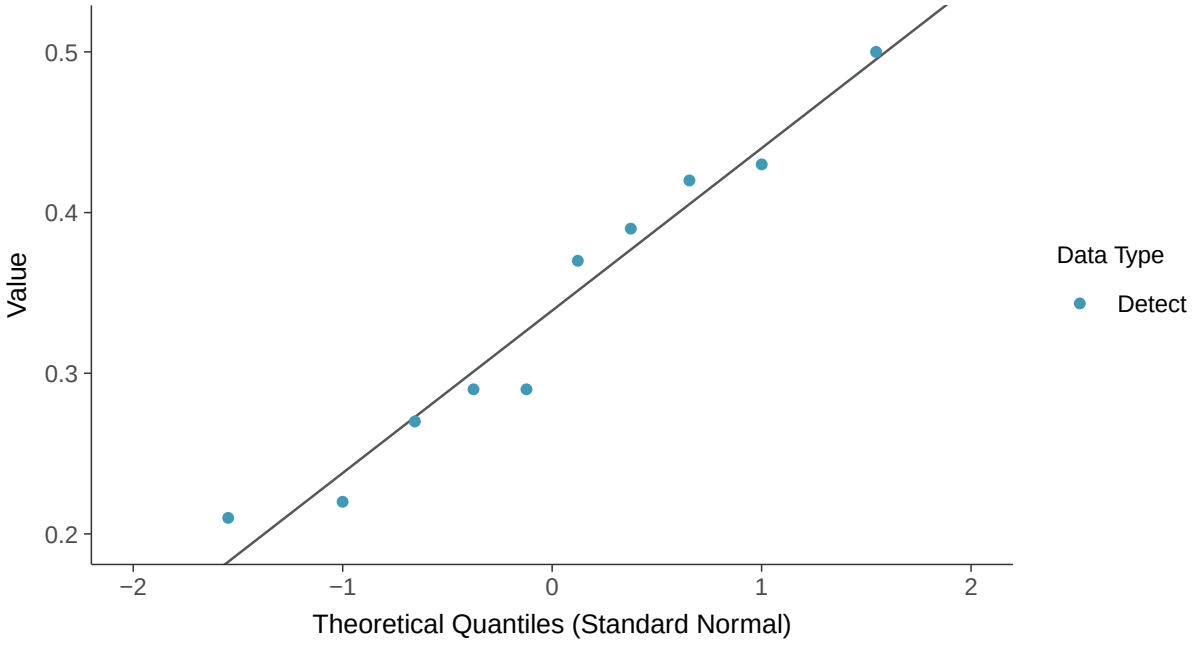
Boxplot by Season

Boron, MW-16 (mg/L)



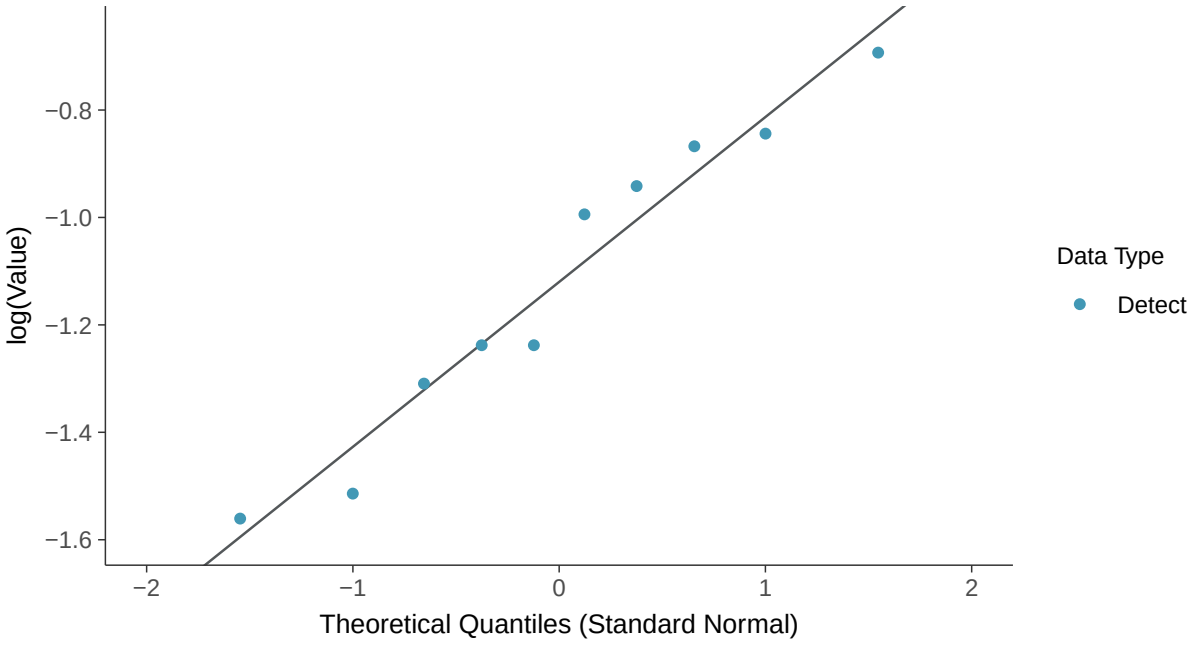
Normal Q-Q plot

Boron, MW-16 (mg/L)



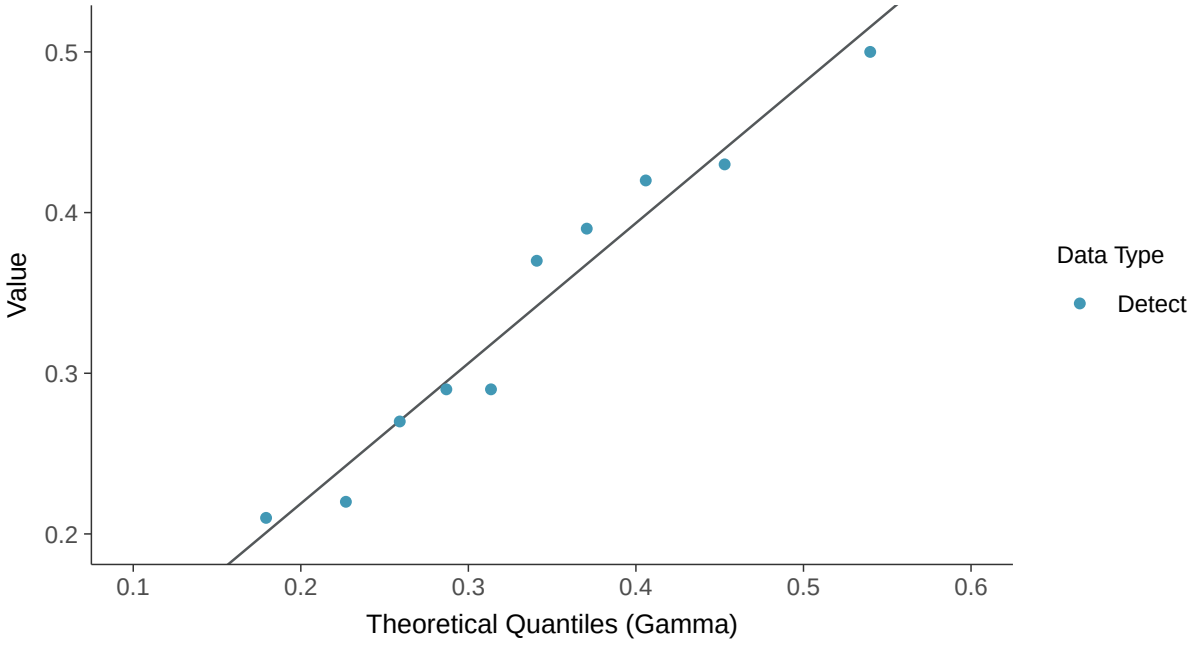
Lognormal Q-Q plot

Boron, MW-16 (mg/L)



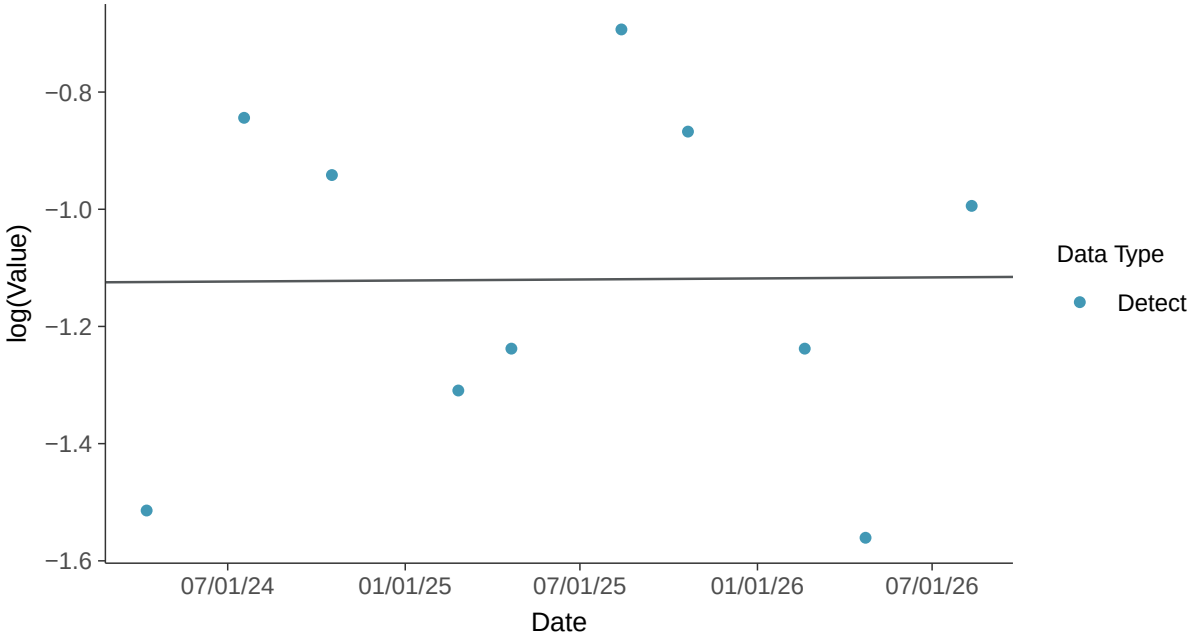
Gamma Q-Q plot

Boron, MW-16 (mg/L)



Trend Regression: Lognormal MLE

Boron, MW-16 (mg/L)

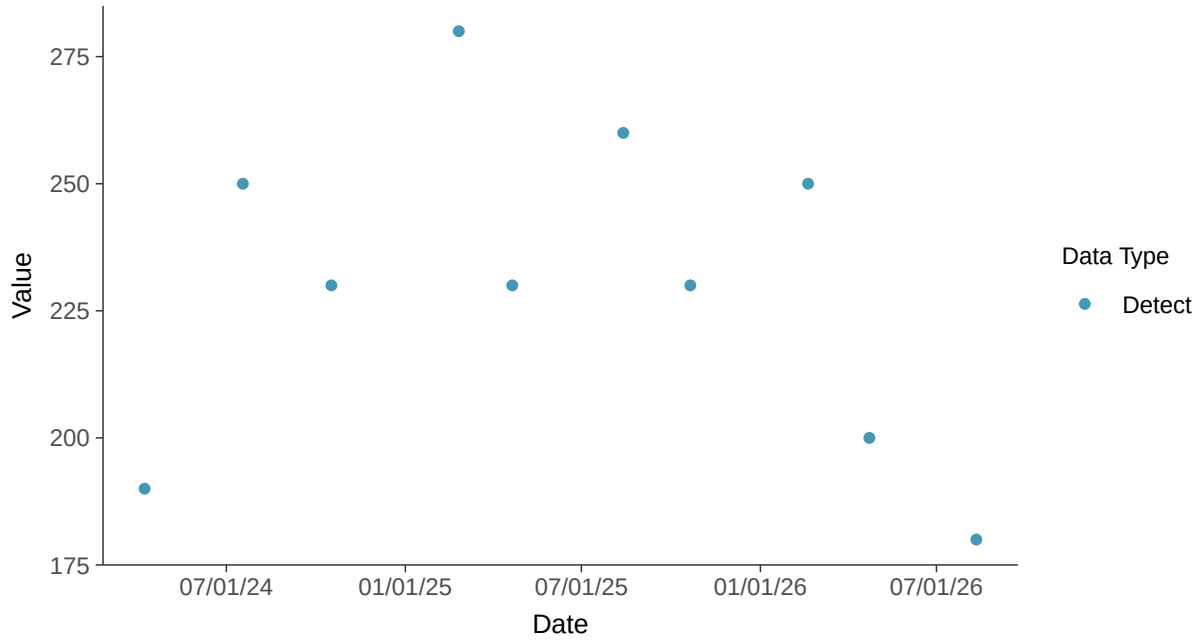


Appendix III: Calcium, MW-16

ID: 26_1_3_107

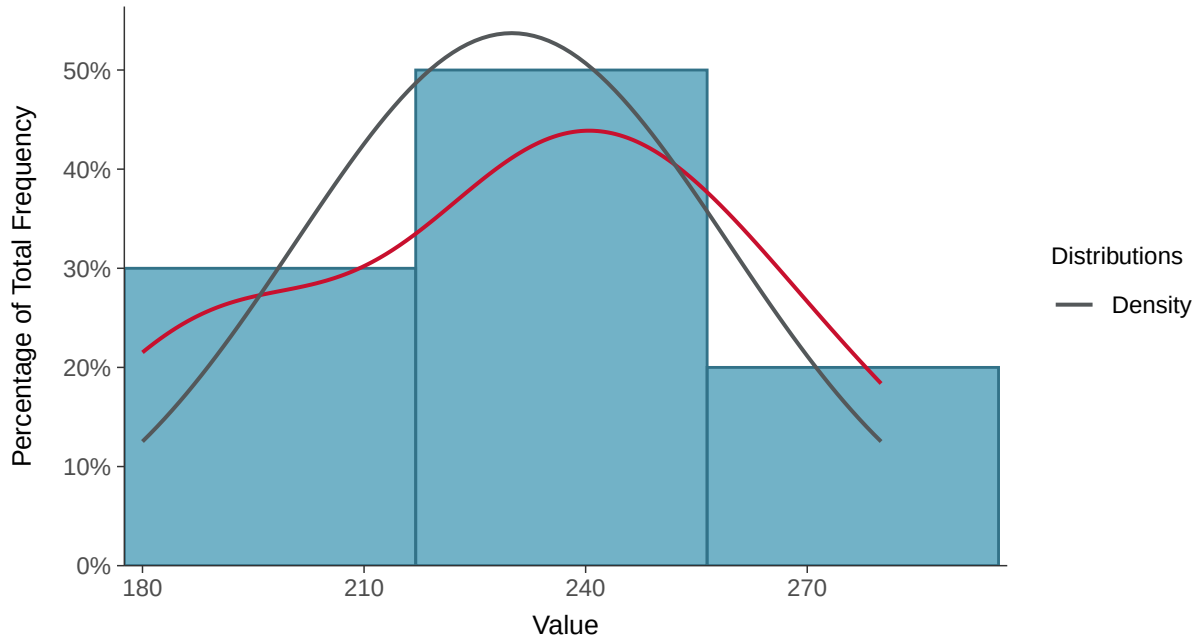
Scatter Plot

Calcium, MW-16 (mg/L)



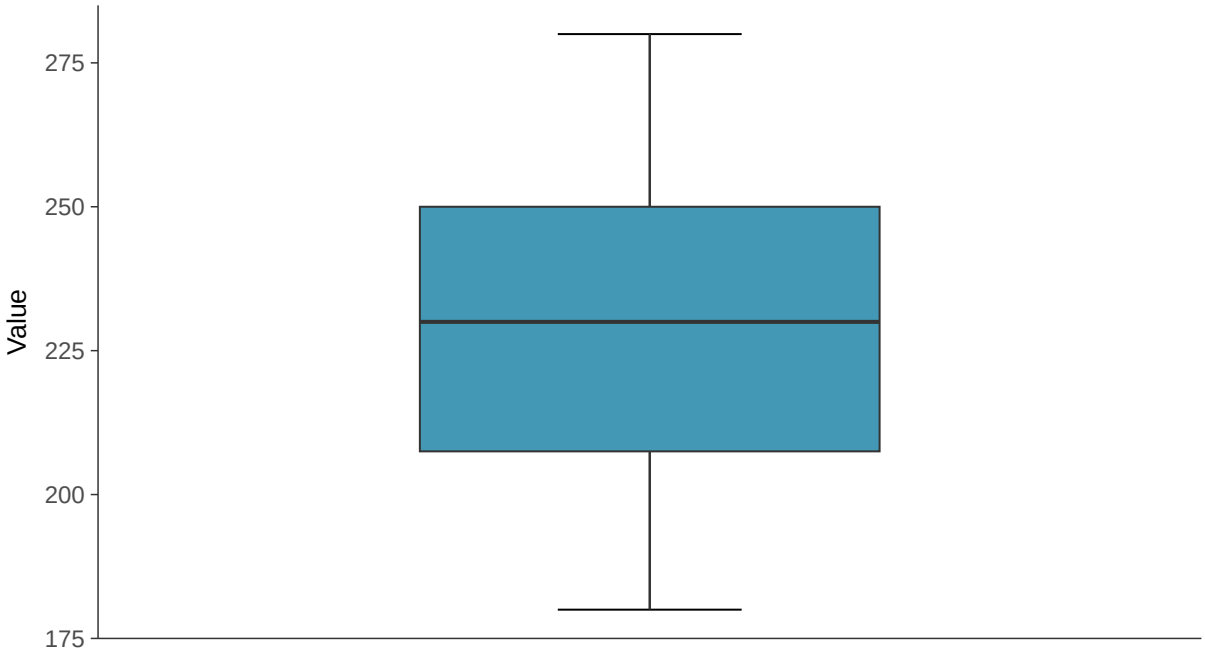
Histogram

Calcium, MW-16 (mg/L)



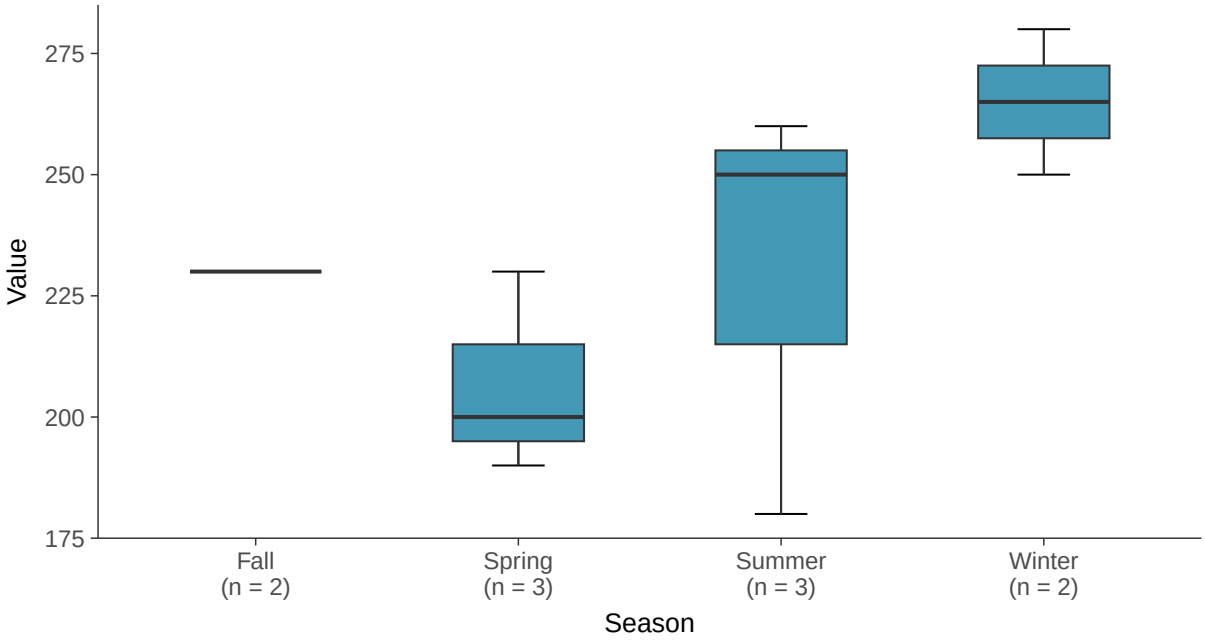
Boxplot

Calcium, MW-16 (mg/L)



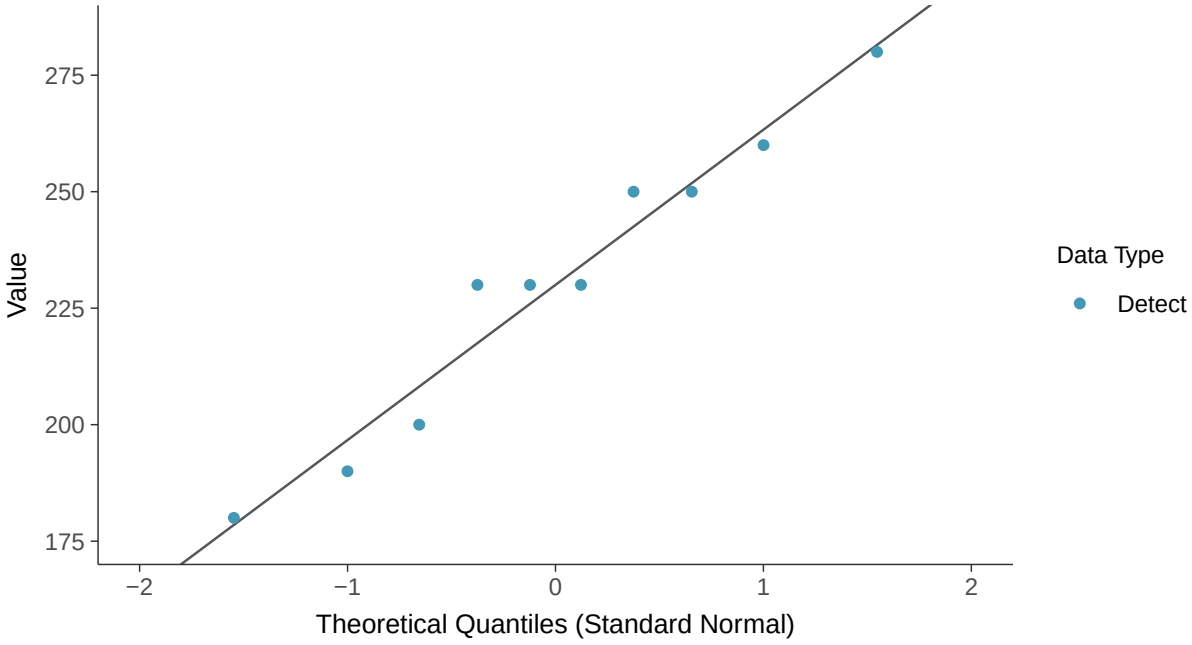
Boxplot by Season

Calcium, MW-16 (mg/L)



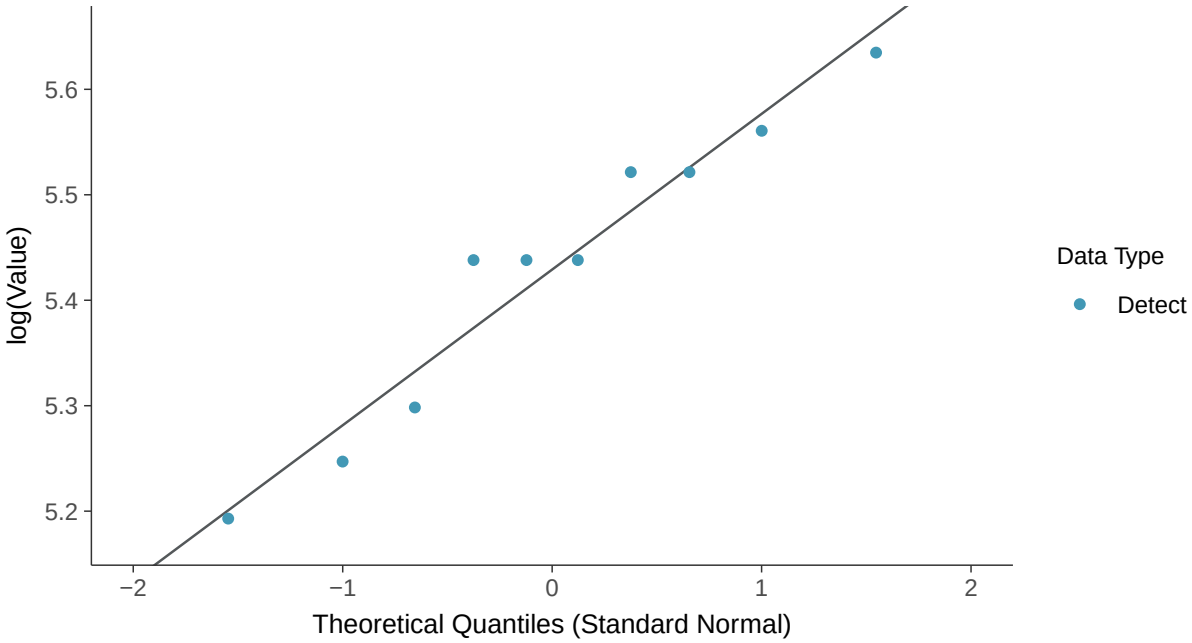
Normal Q-Q plot

Calcium, MW-16 (mg/L)



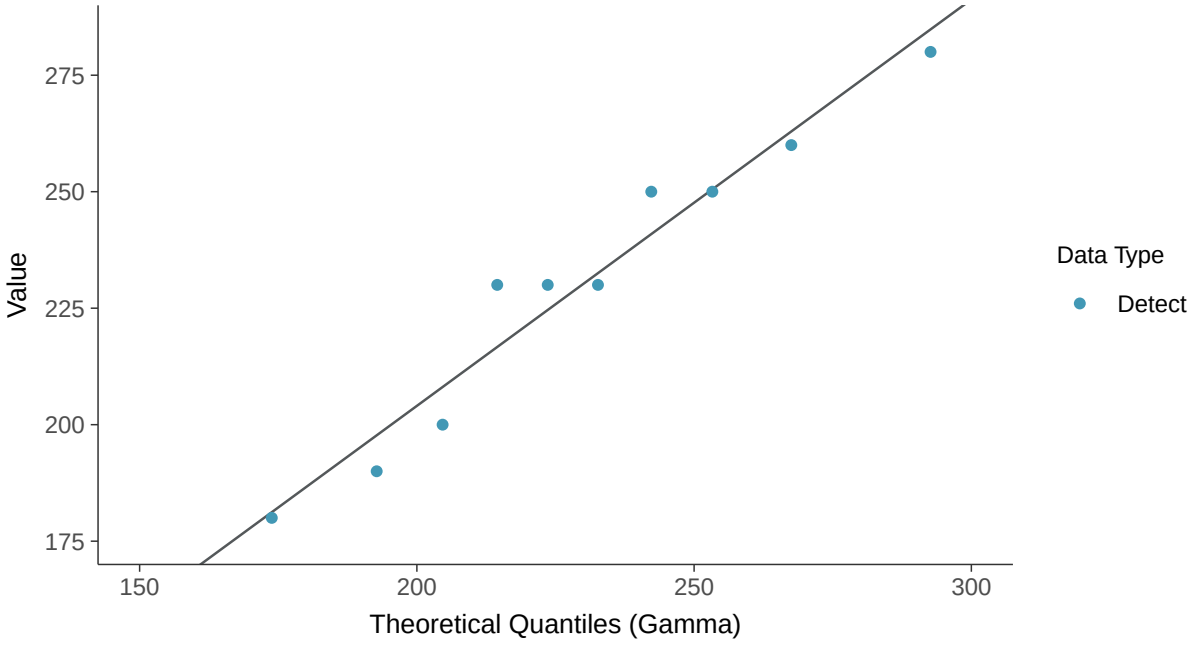
Lognormal Q-Q plot

Calcium, MW-16 (mg/L)



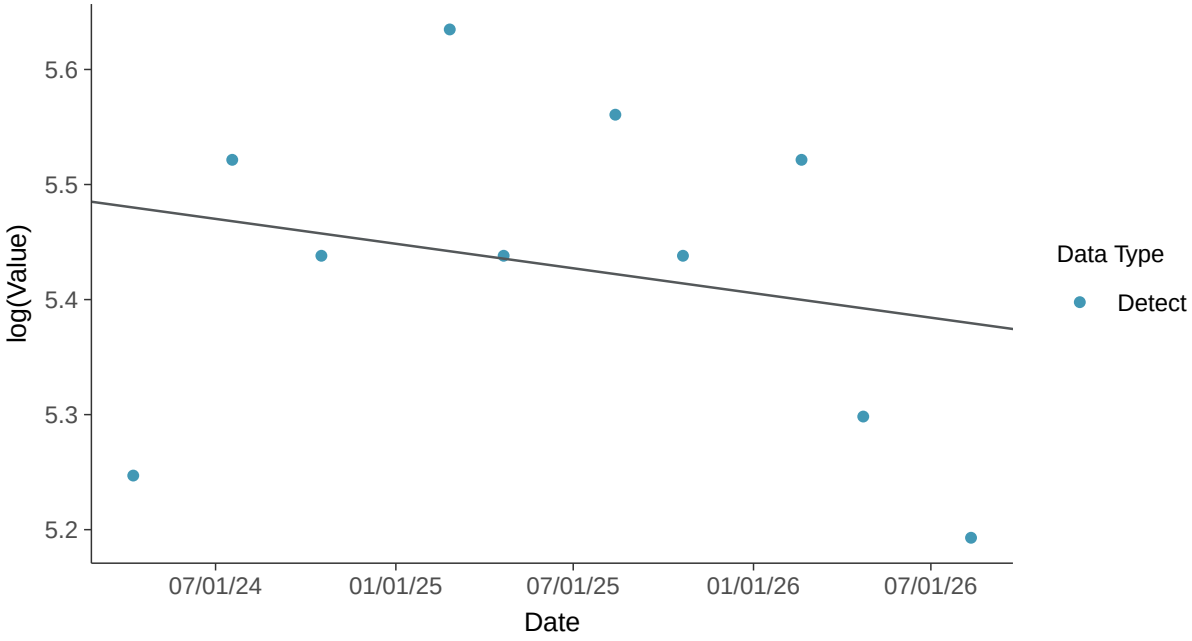
Gamma Q-Q plot

Calcium, MW-16 (mg/L)



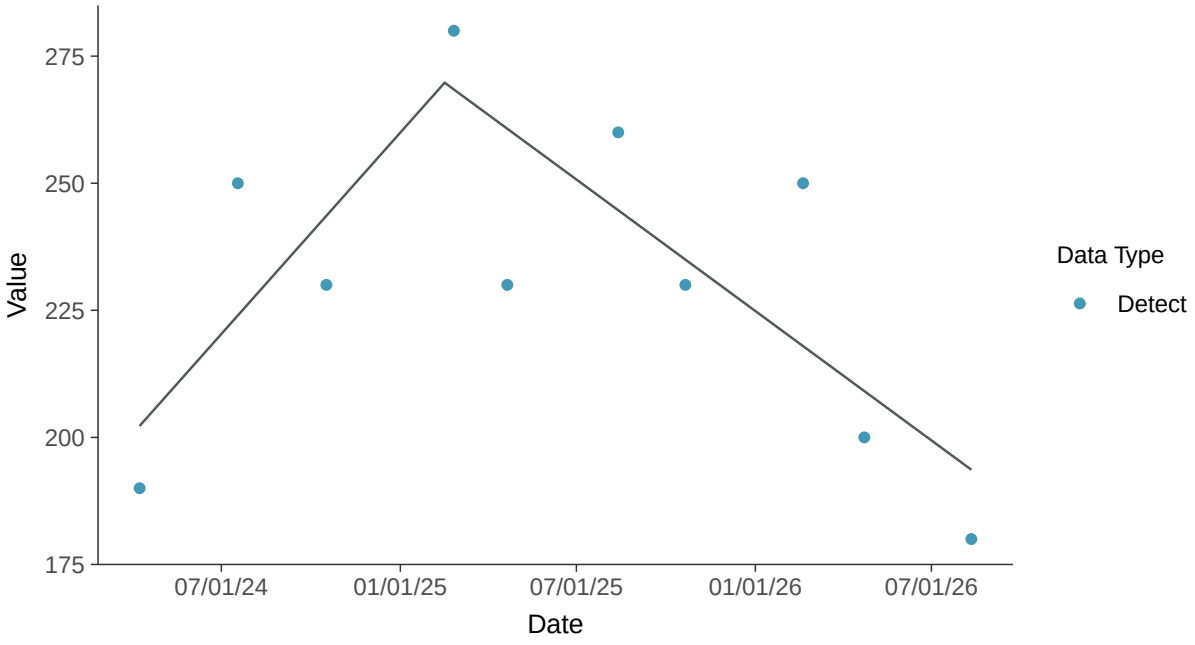
Trend Regression: Lognormal MLE

Calcium, MW-16 (mg/L)



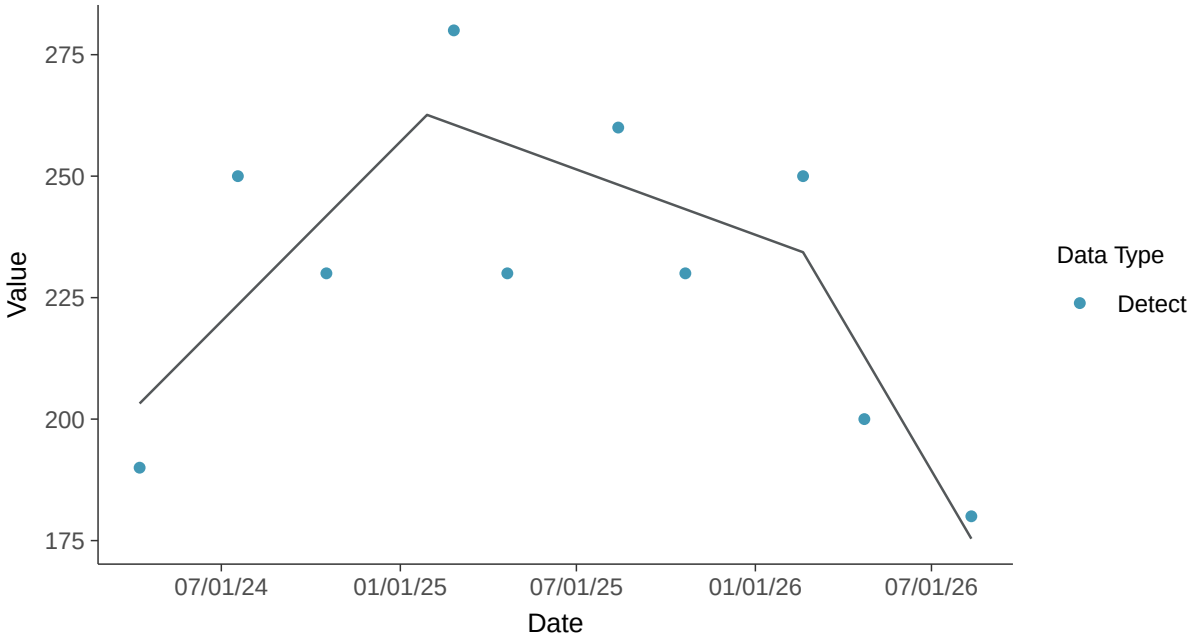
Trend Regression: Piecewise Linear-Linear

Calcium, MW-16 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Calcium, MW-16 (mg/L)

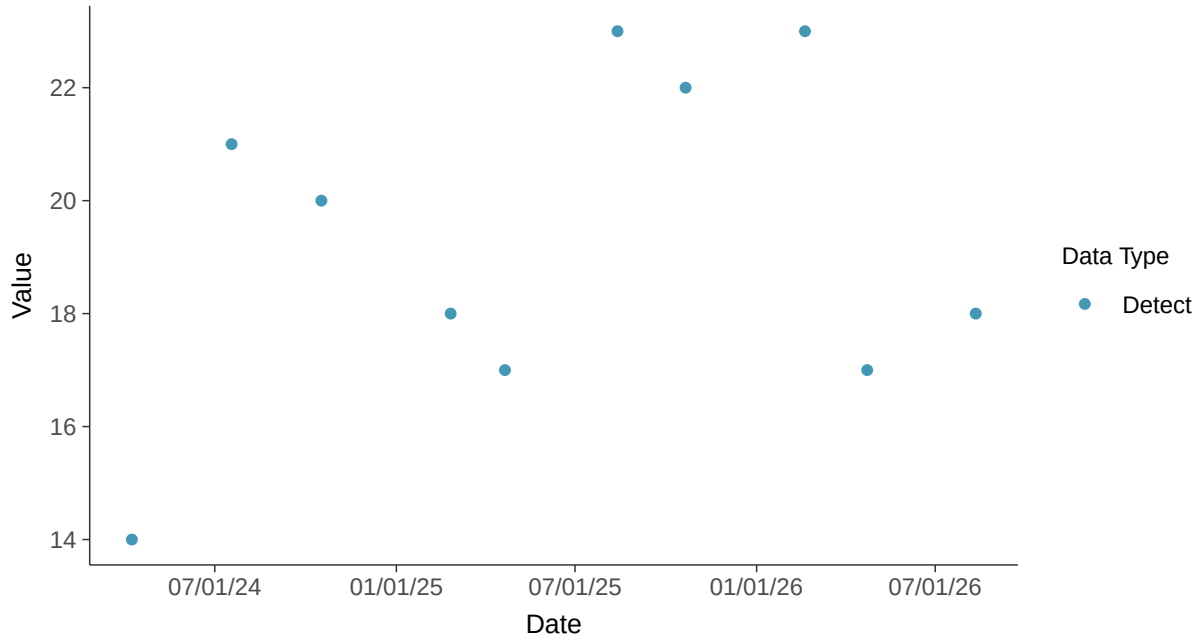


Appendix III: Chloride (as Cl), MW-16

ID: 26_1_3_108

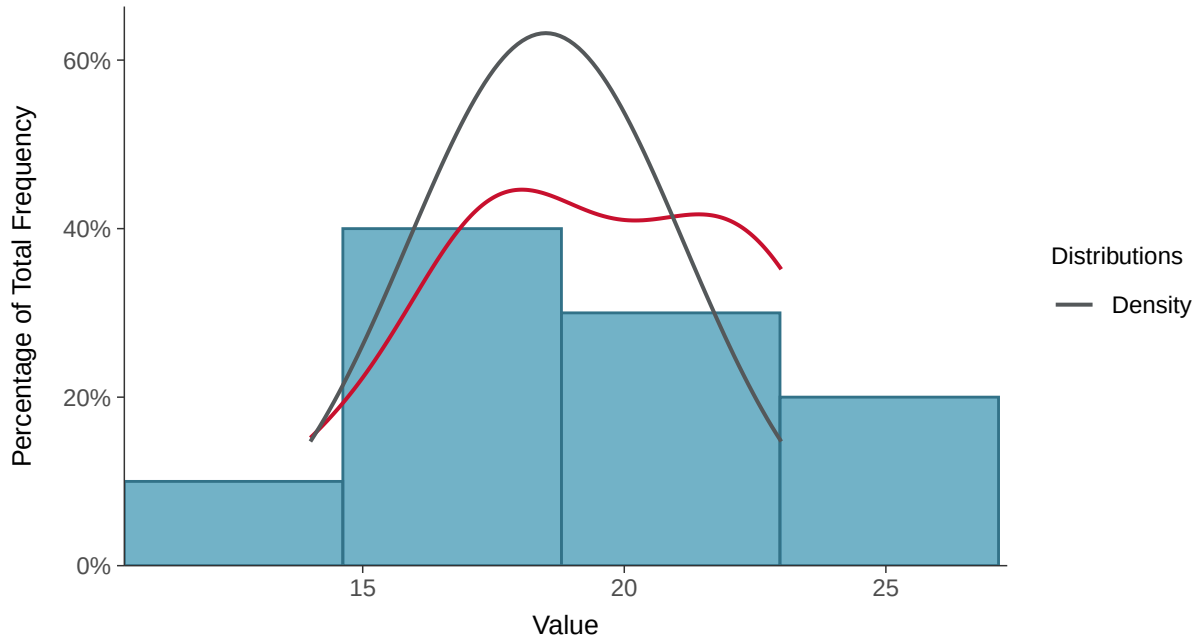
Scatter Plot

Chloride (as Cl), MW-16 (mg/L)



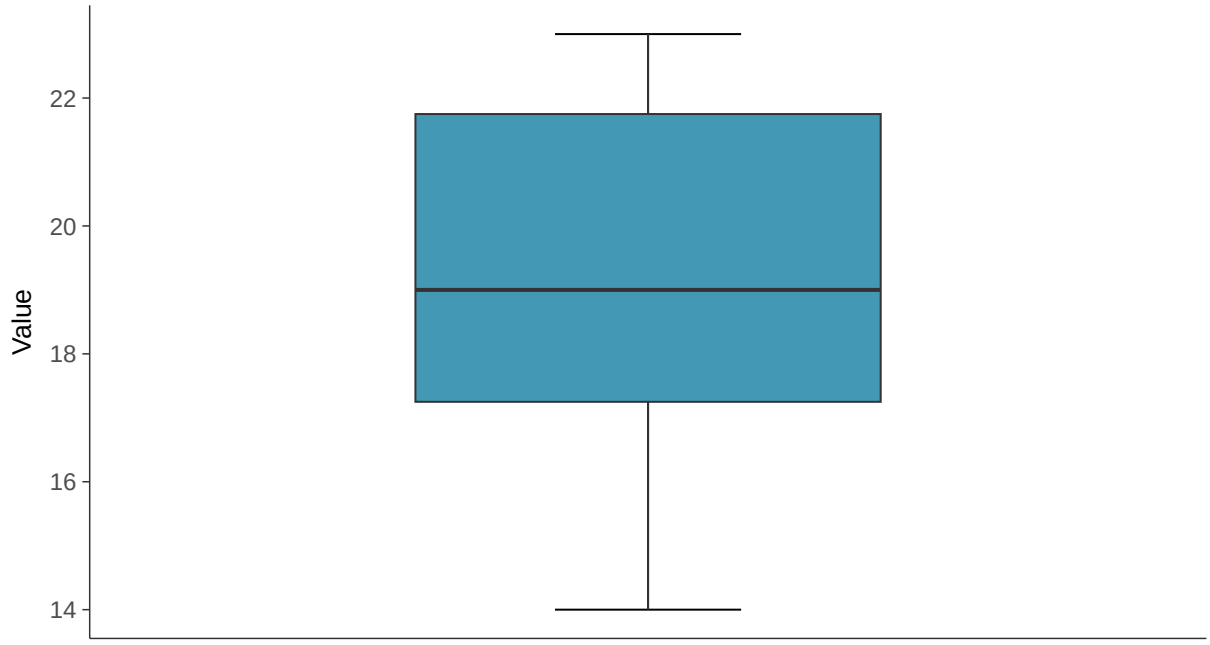
Histogram

Chloride (as Cl), MW-16 (mg/L)



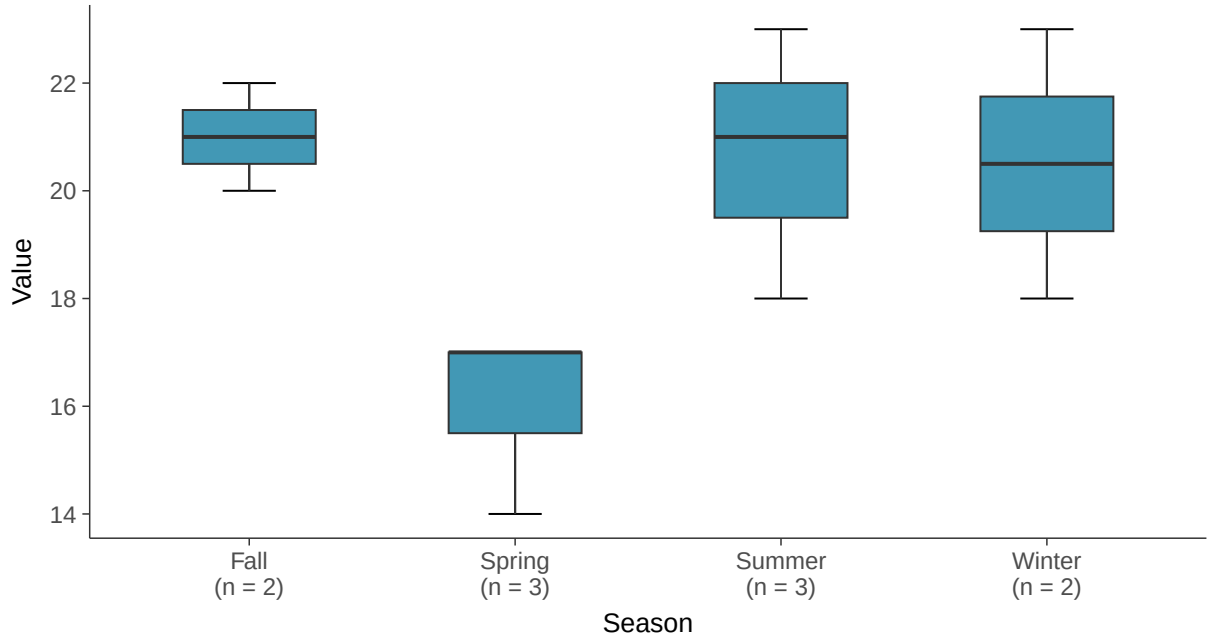
Boxplot

Chloride (as Cl), MW-16 (mg/L)



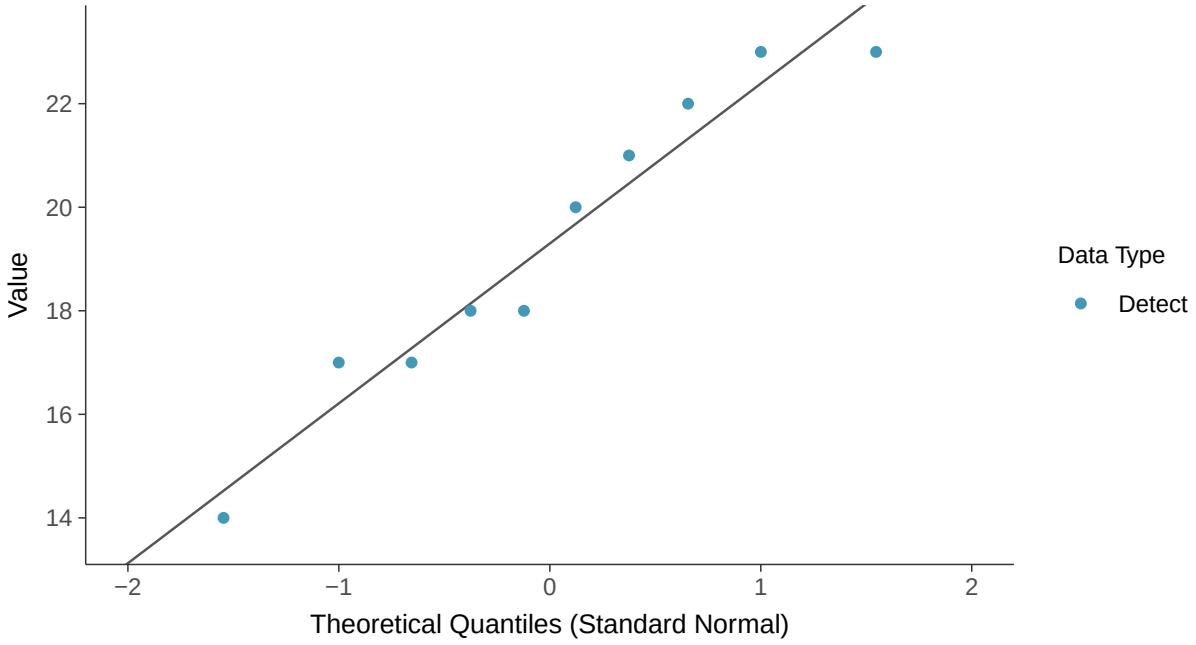
Boxplot by Season

Chloride (as Cl), MW-16 (mg/L)



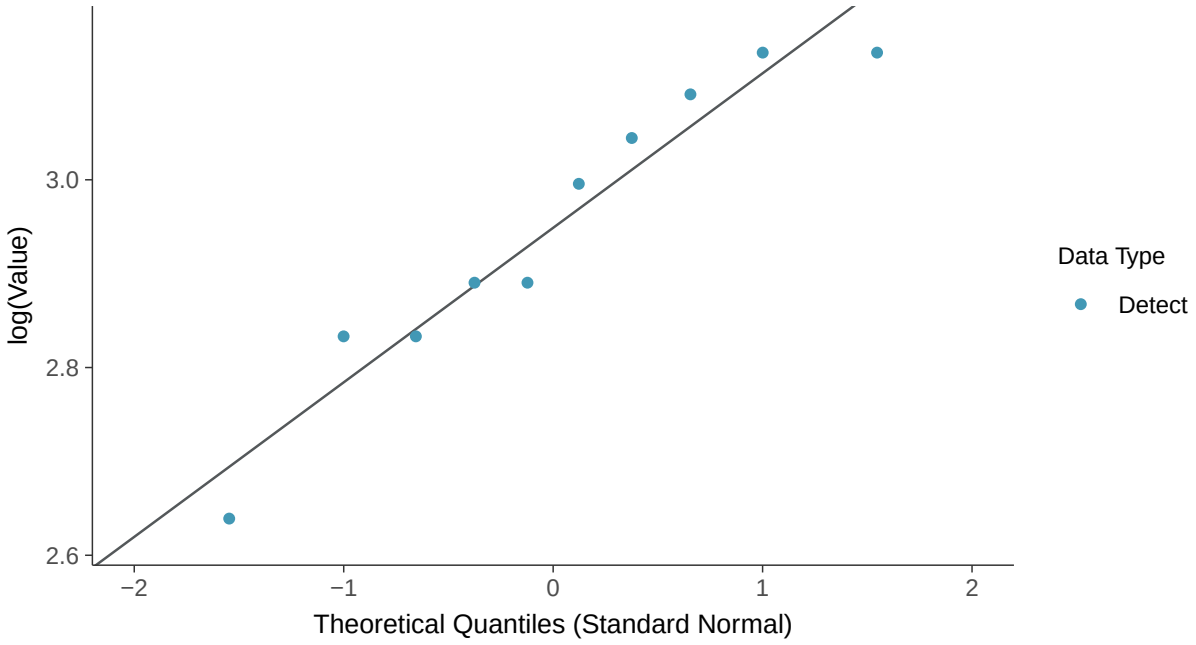
Normal Q-Q plot

Chloride (as Cl), MW-16 (mg/L)



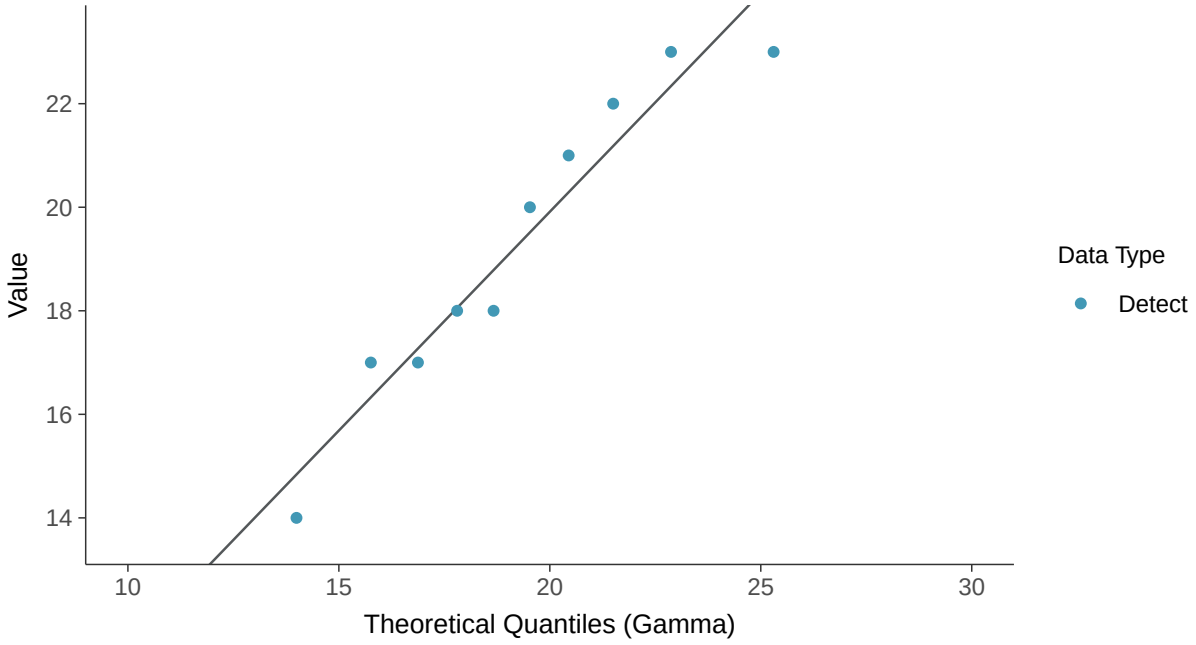
Lognormal Q-Q plot

Chloride (as Cl), MW-16 (mg/L)



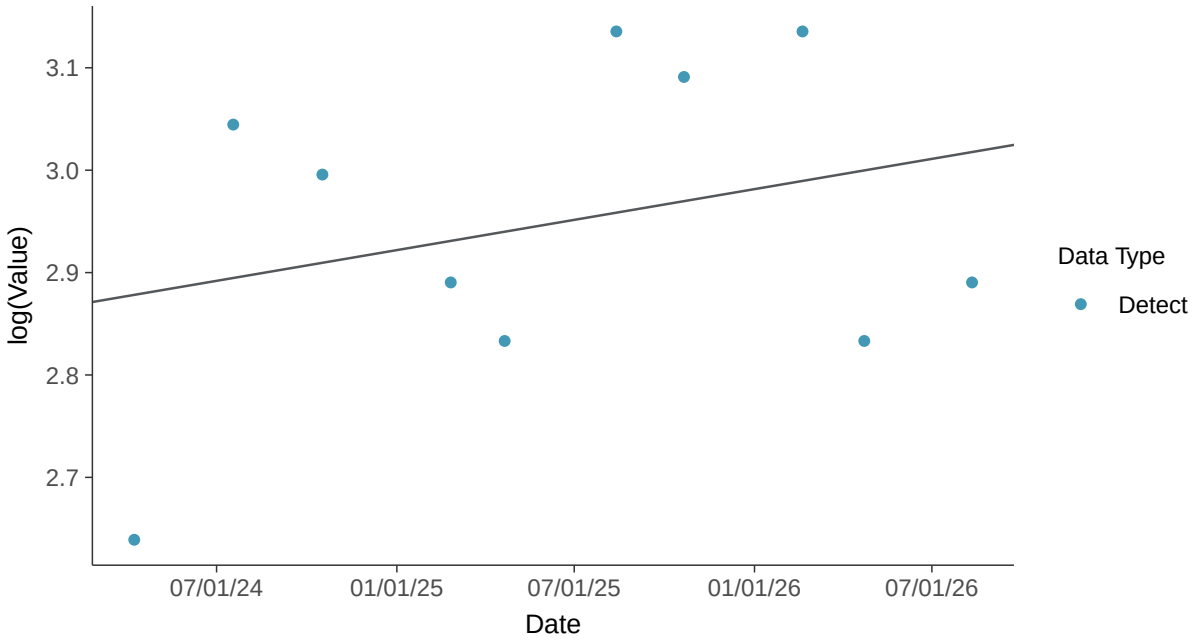
Gamma Q-Q plot

Chloride (as Cl), MW-16 (mg/L)



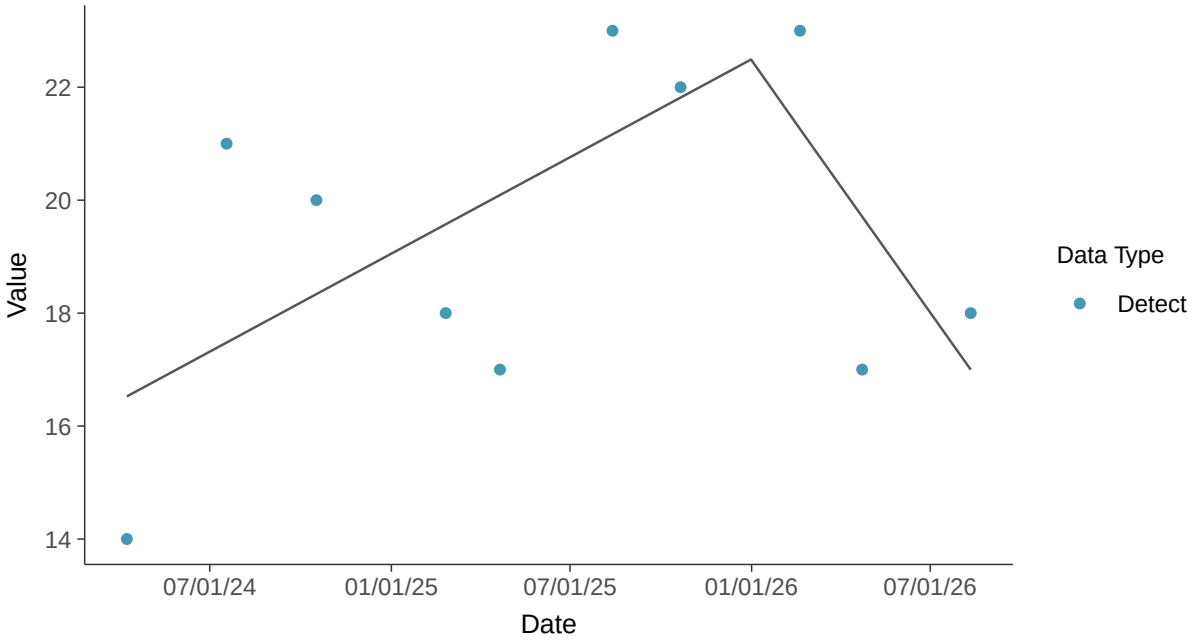
Trend Regression: Lognormal MLE

Chloride (as Cl), MW-16 (mg/L)



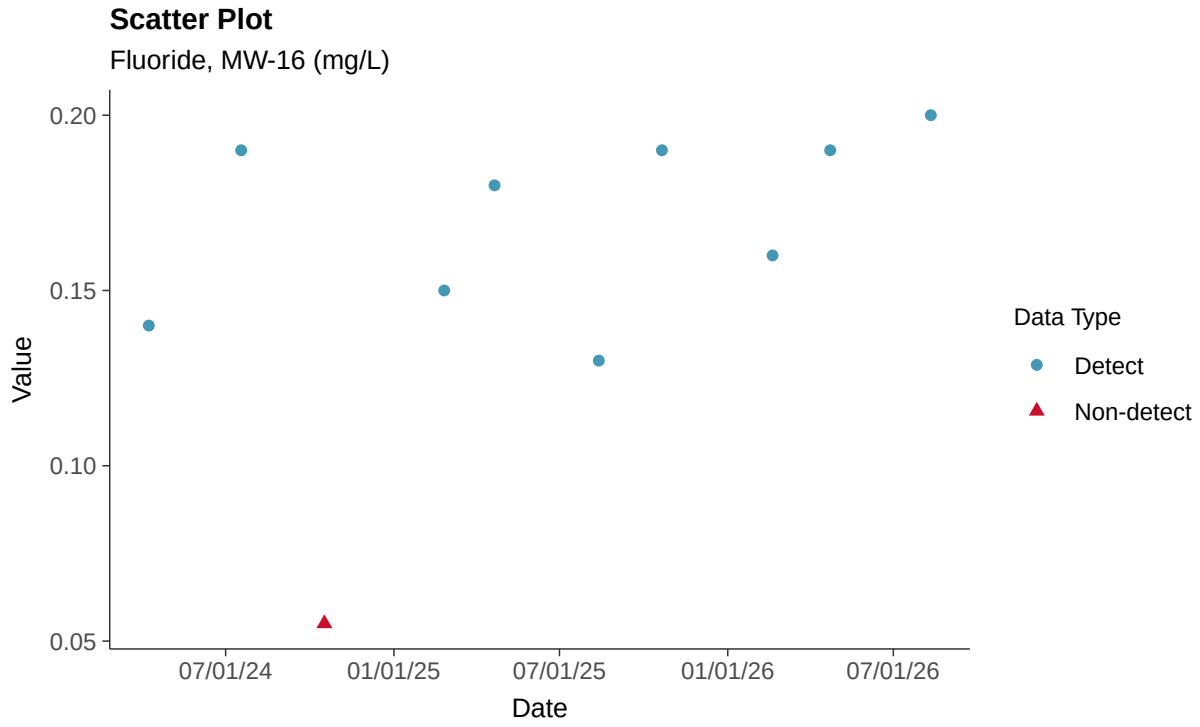
Trend Regression: Piecewise Linear-Linear

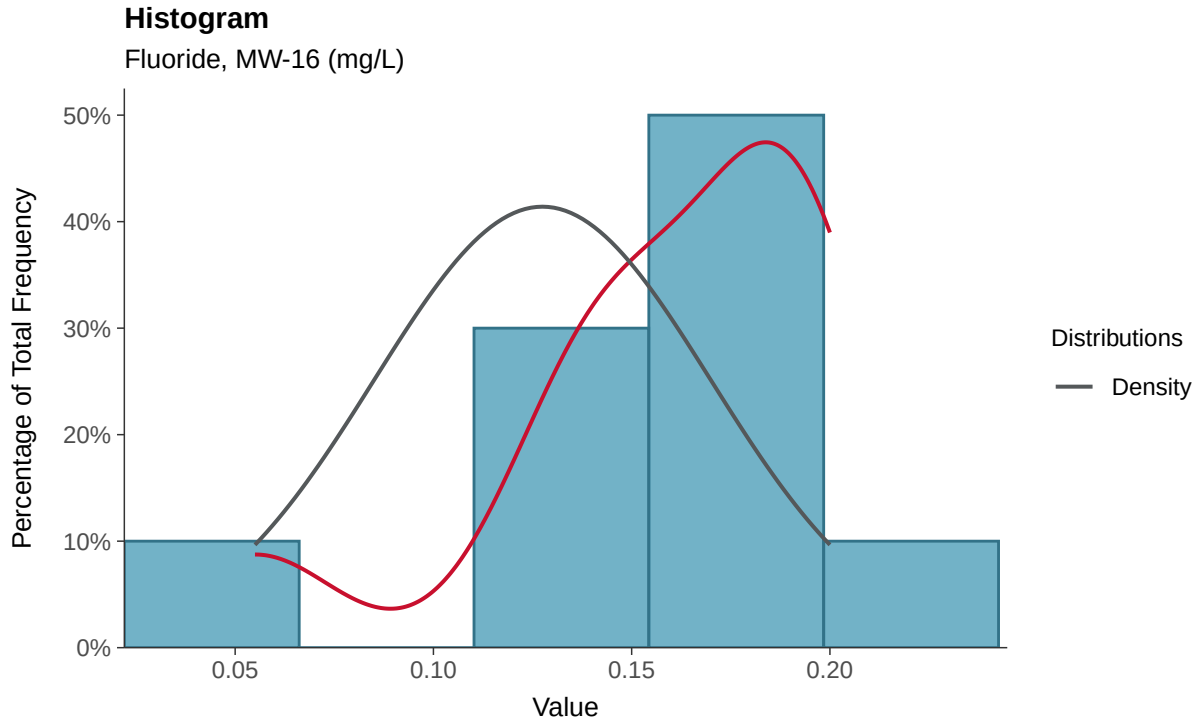
Chloride (as Cl), MW-16 (mg/L)



Appendix III: Fluoride, MW-16

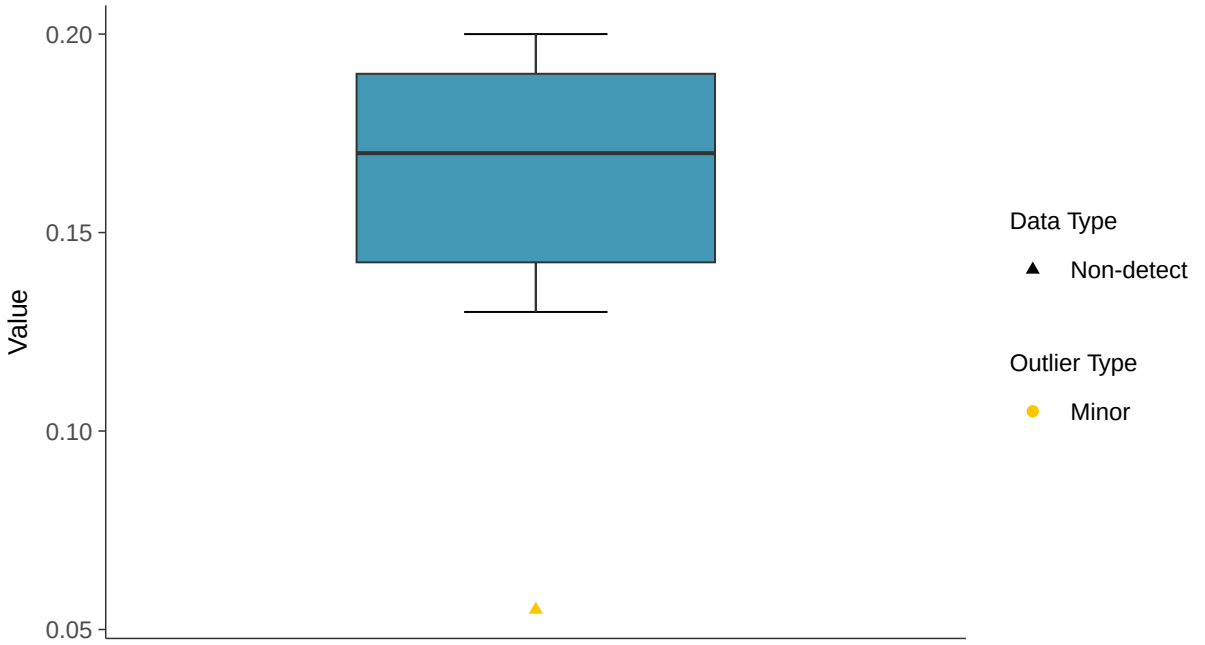
ID: 26_1_3_112





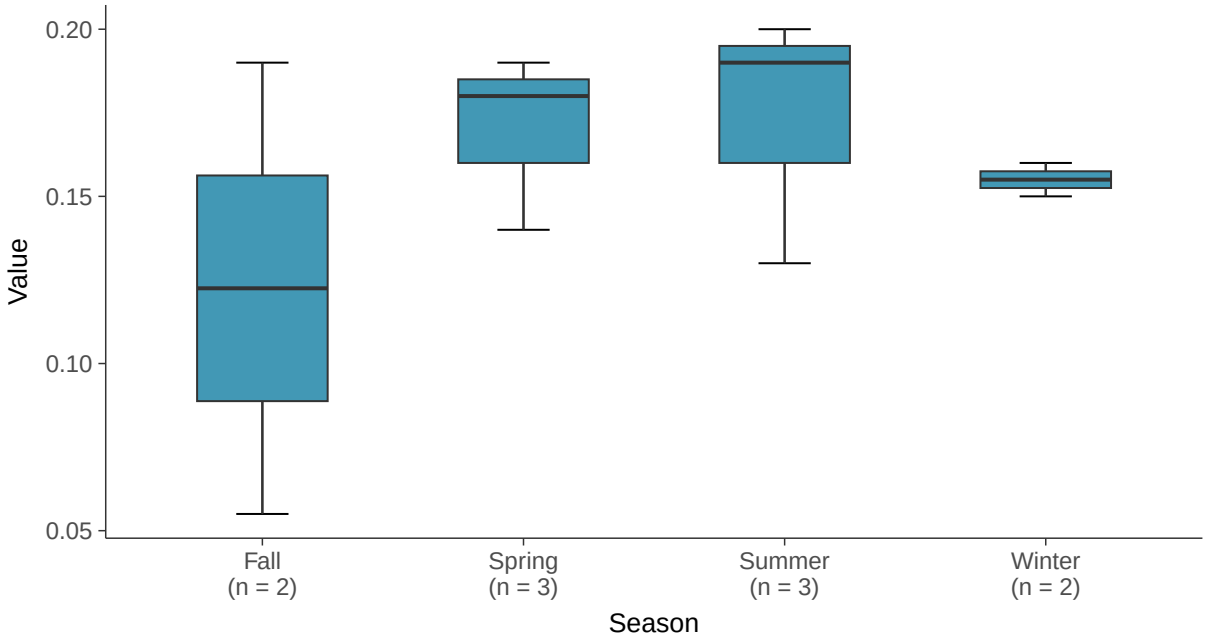
Boxplot

Fluoride, MW-16 (mg/L)



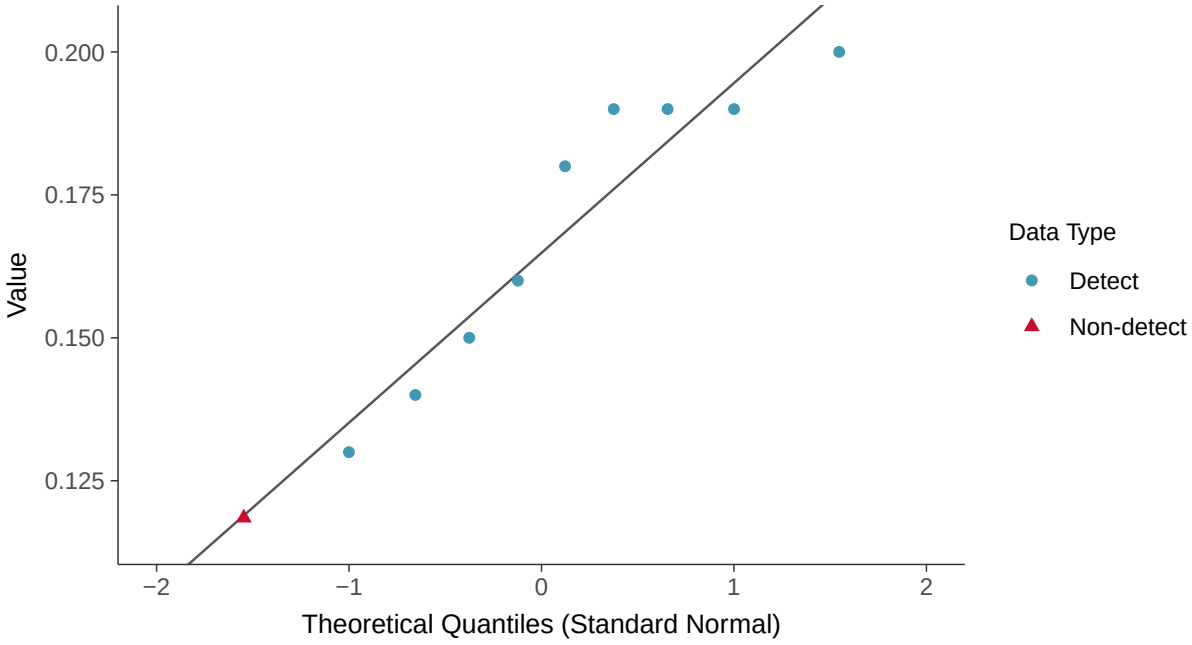
Boxplot by Season

Fluoride, MW-16 (mg/L)



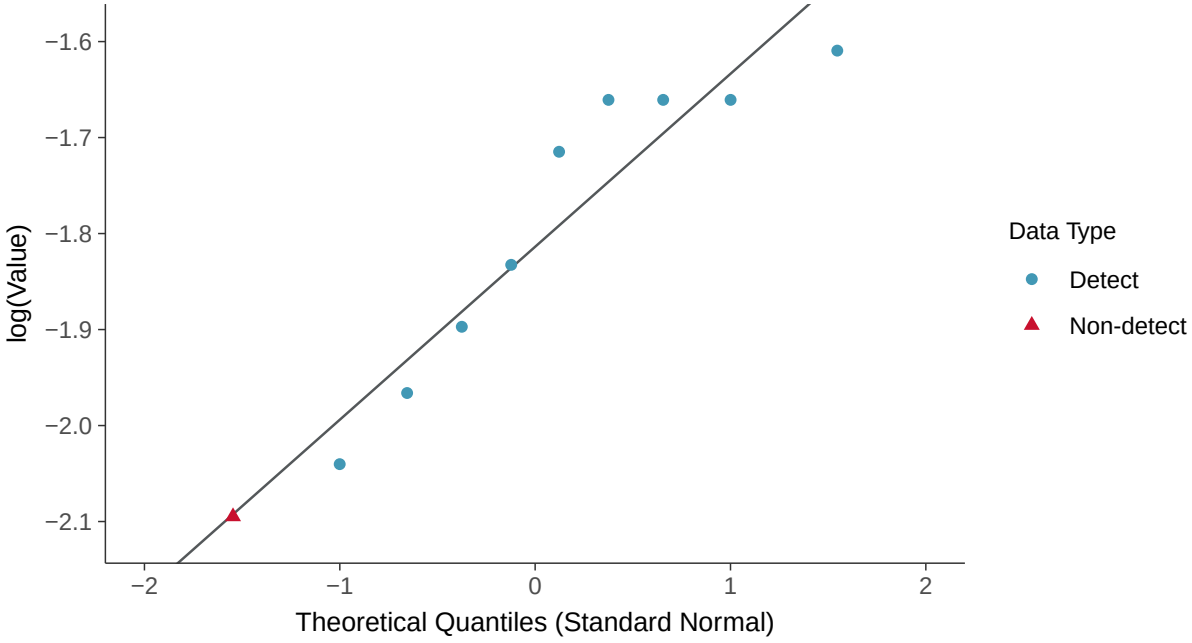
Normal Q-Q plot using ROS Imputed Estimates

Fluoride, MW-16 (mg/L)



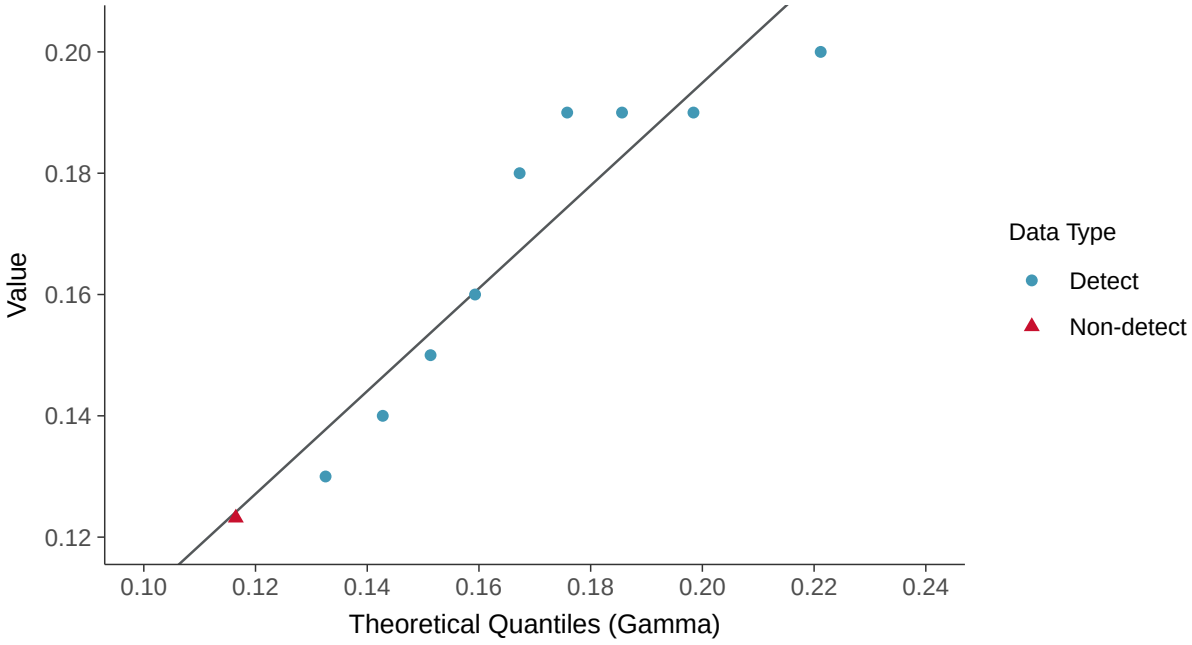
Lognormal Q-Q plot using ROS Imputed Estimates

Fluoride, MW-16 (mg/L)



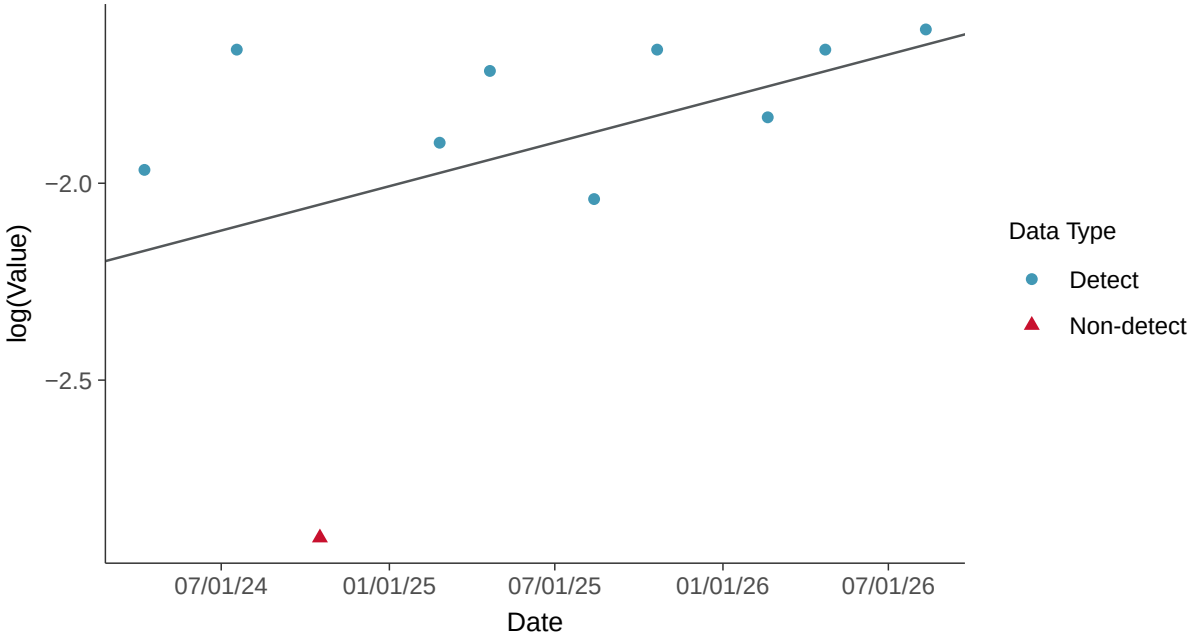
Gamma Q-Q plot using ROS Imputed Estimates

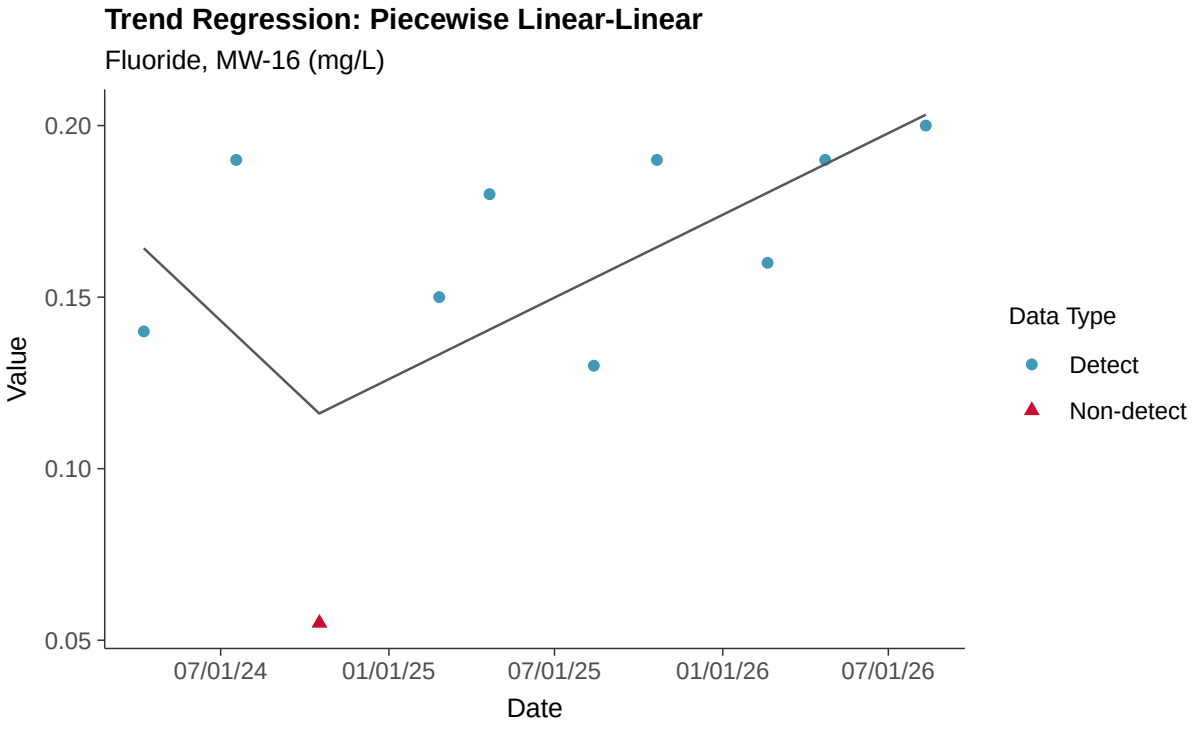
Fluoride, MW-16 (mg/L)



Trend Regression: Lognormal MLE

Fluoride, MW-16 (mg/L)



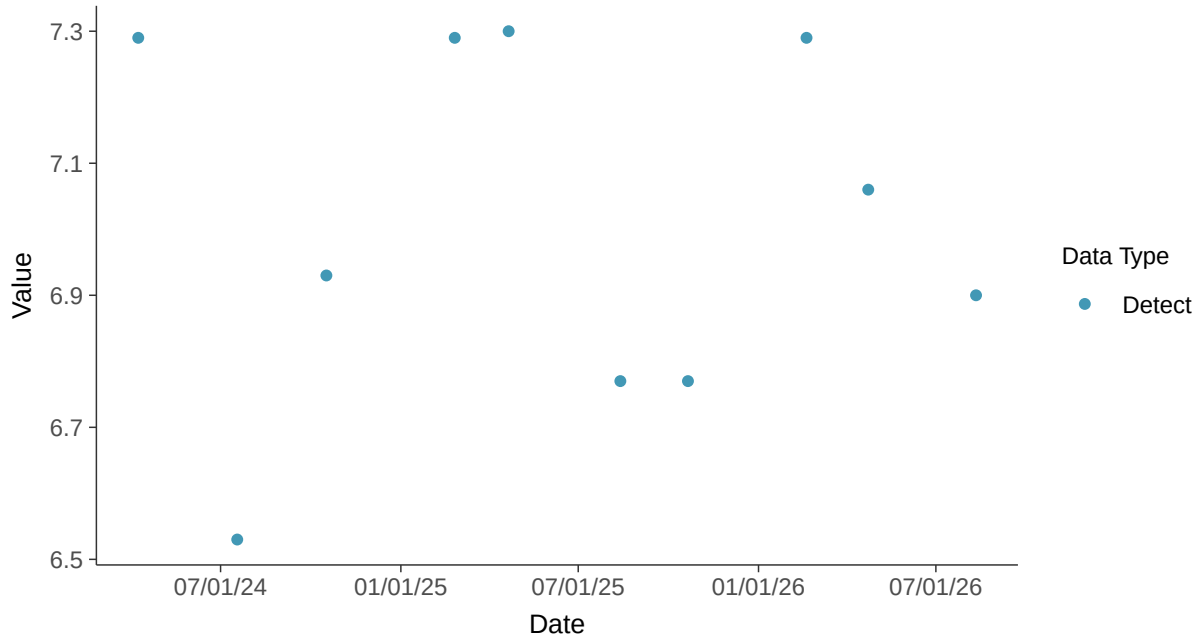

Trend Regression: Piecewise Linear-Linear
Fluoride, MW-16 (mg/L)
Value
0.20
0.15
0.10
0.05
07/01/24
01/01/25
07/01/25
01/01/26
07/01/26
Date
Data Type
Detect
Non-detect

Appendix III: pH (field), MW-16

ID: 26_1_3_120

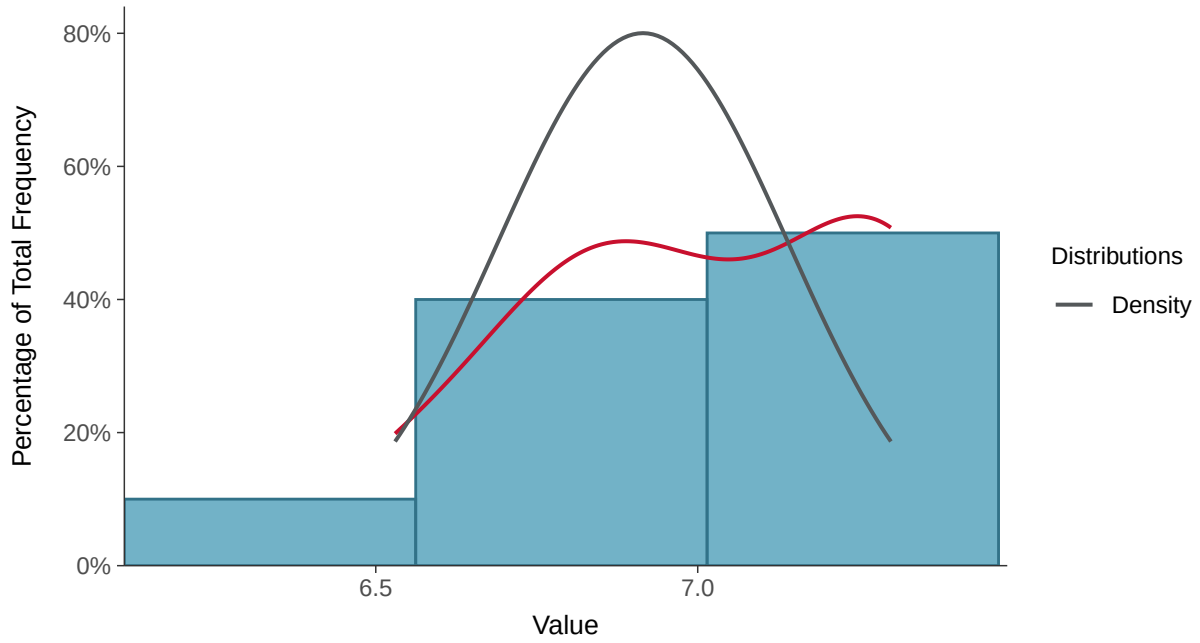
Scatter Plot

pH (field), MW-16 (su)



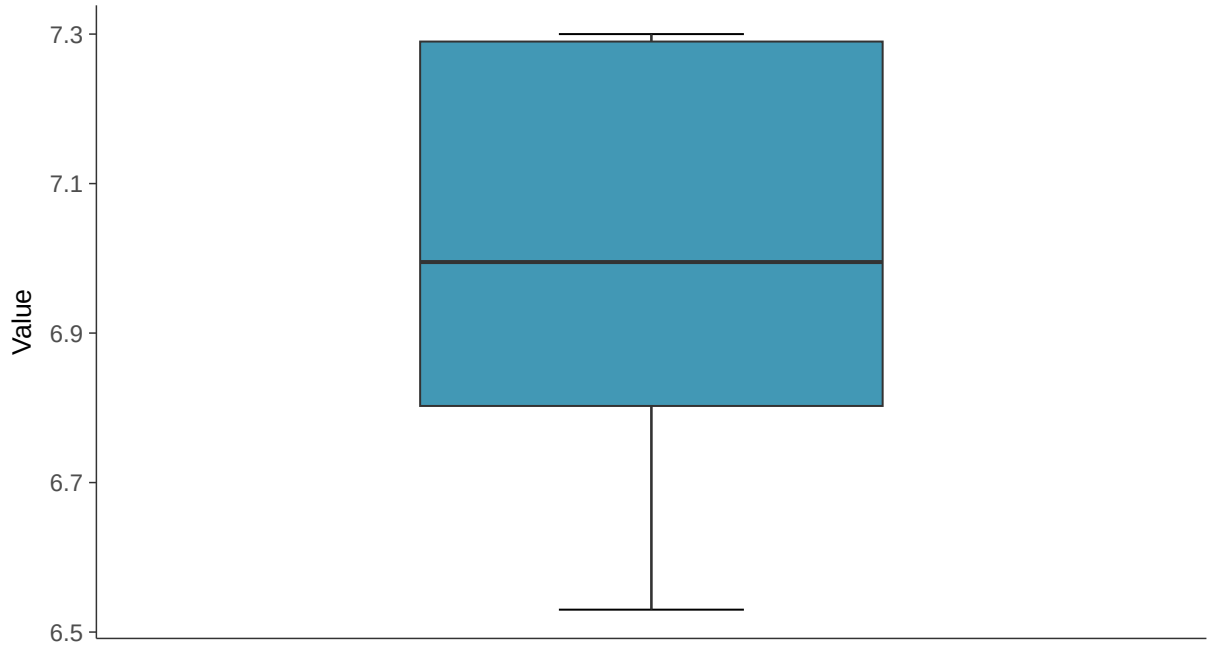
Histogram

pH (field), MW-16 (su)



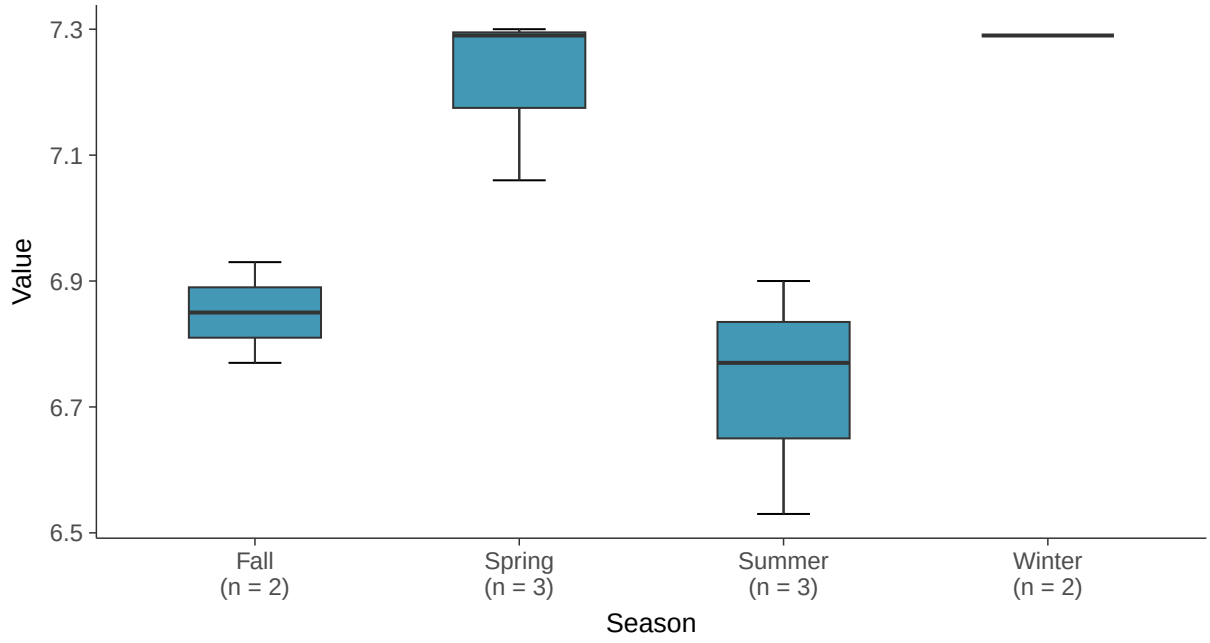
Boxplot

pH (field), MW-16 (su)



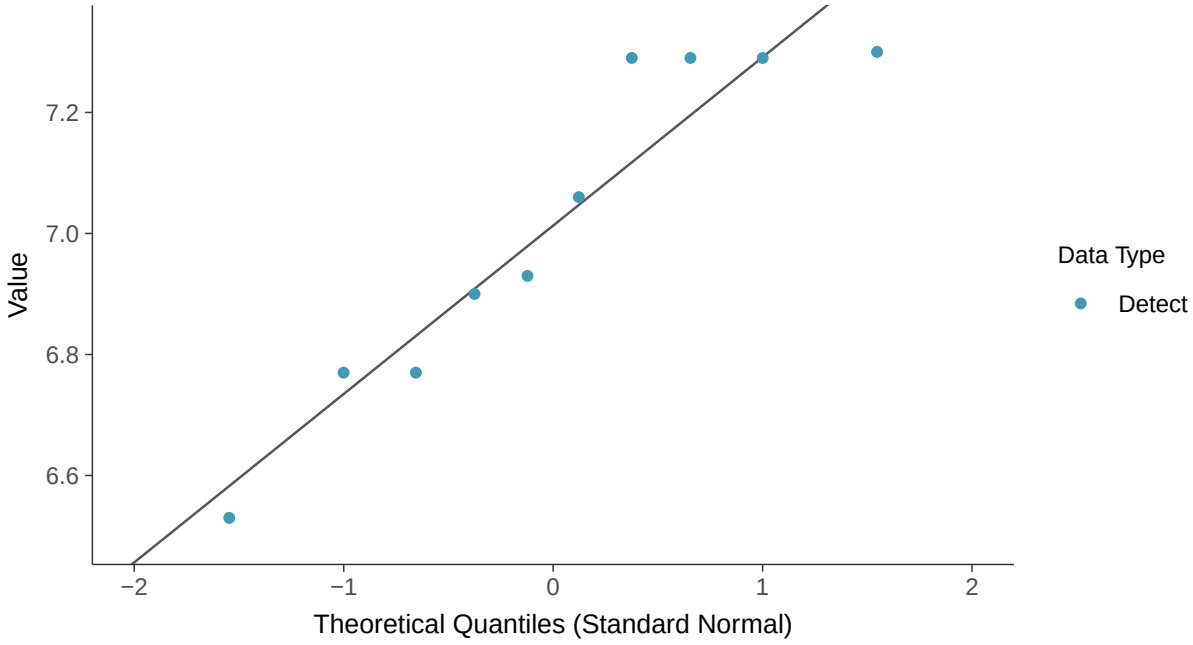
Boxplot by Season

pH (field), MW-16 (su)



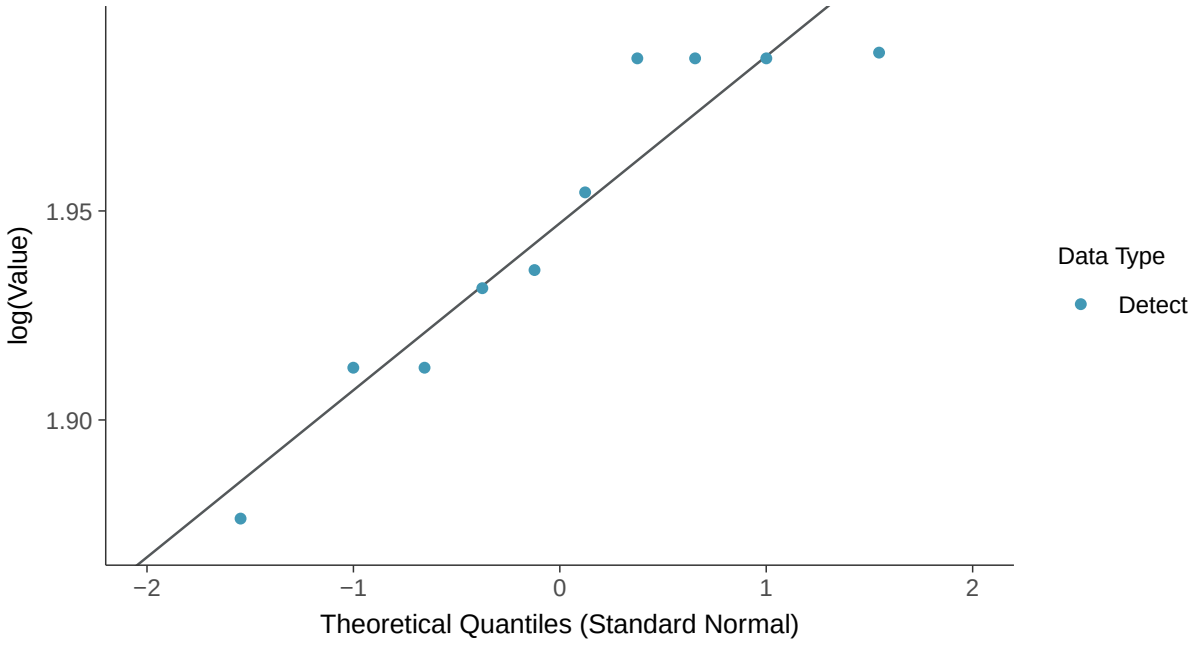
Normal Q-Q plot

pH (field), MW-16 (su)



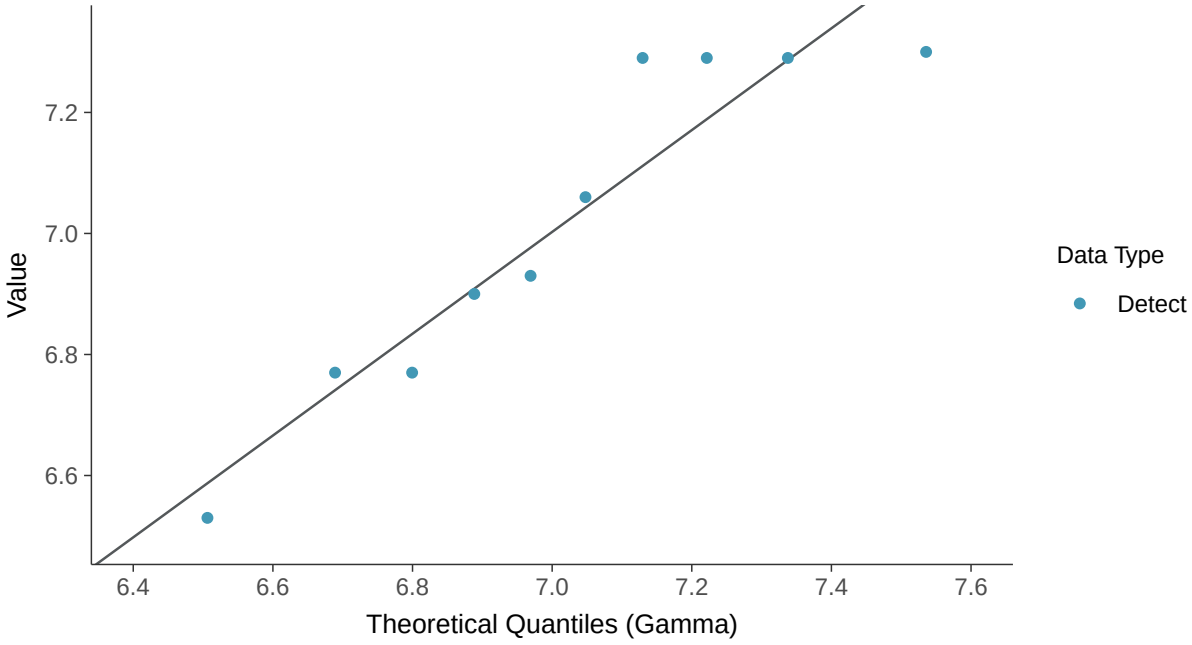
Lognormal Q-Q plot

pH (field), MW-16 (su)



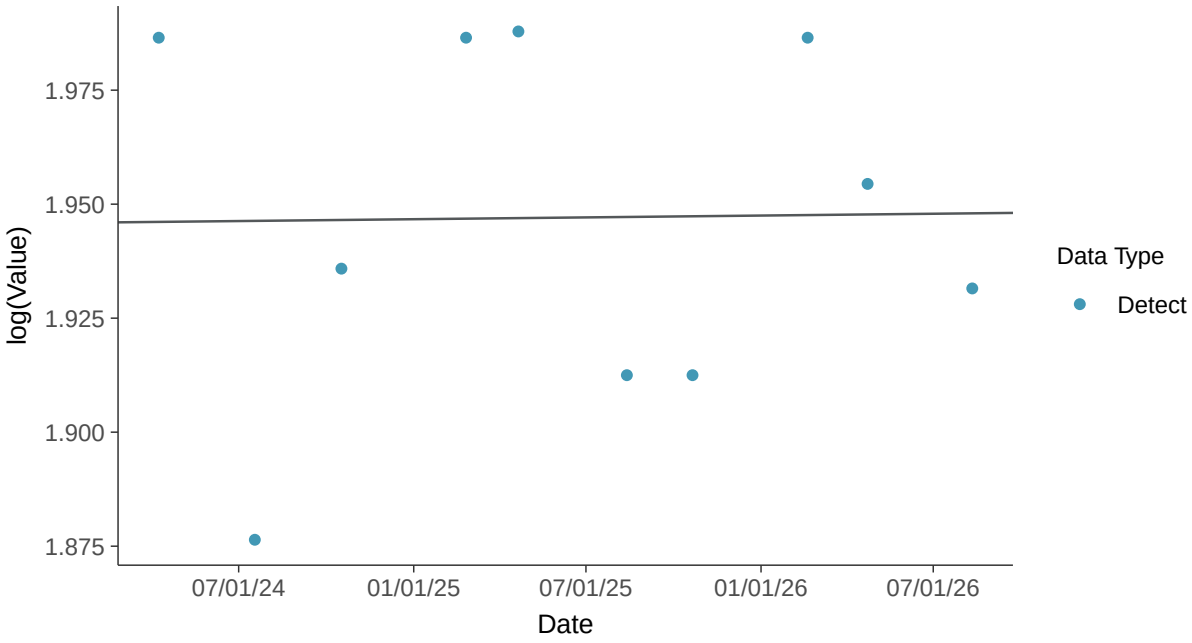
Gamma Q-Q plot

pH (field), MW-16 (su)



Trend Regression: Lognormal MLE

pH (field), MW-16 (su)

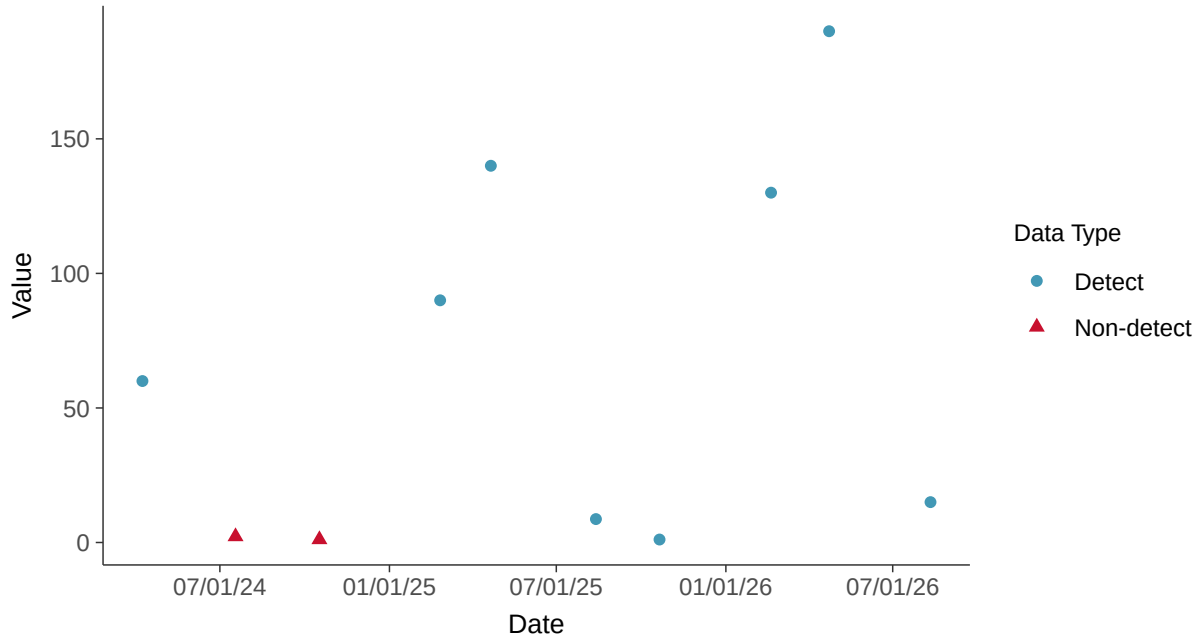


Appendix III: Sulfate (as SO4), MW-16

ID: 26_1_3_124

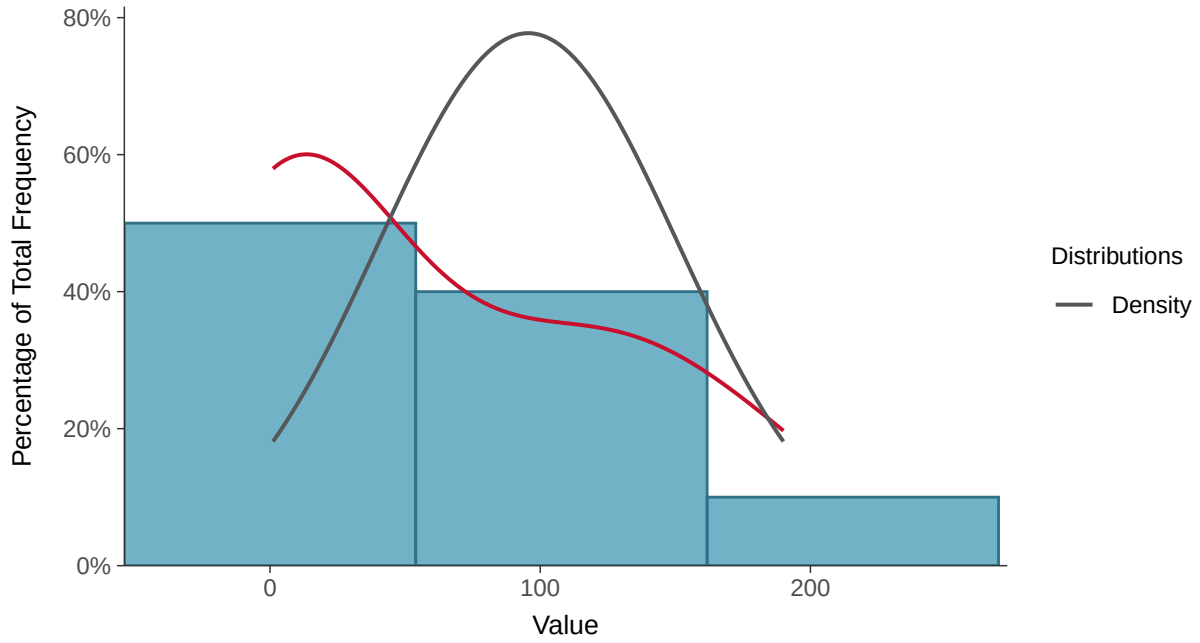
Scatter Plot

Sulfate (as SO4), MW-16 (mg/L)



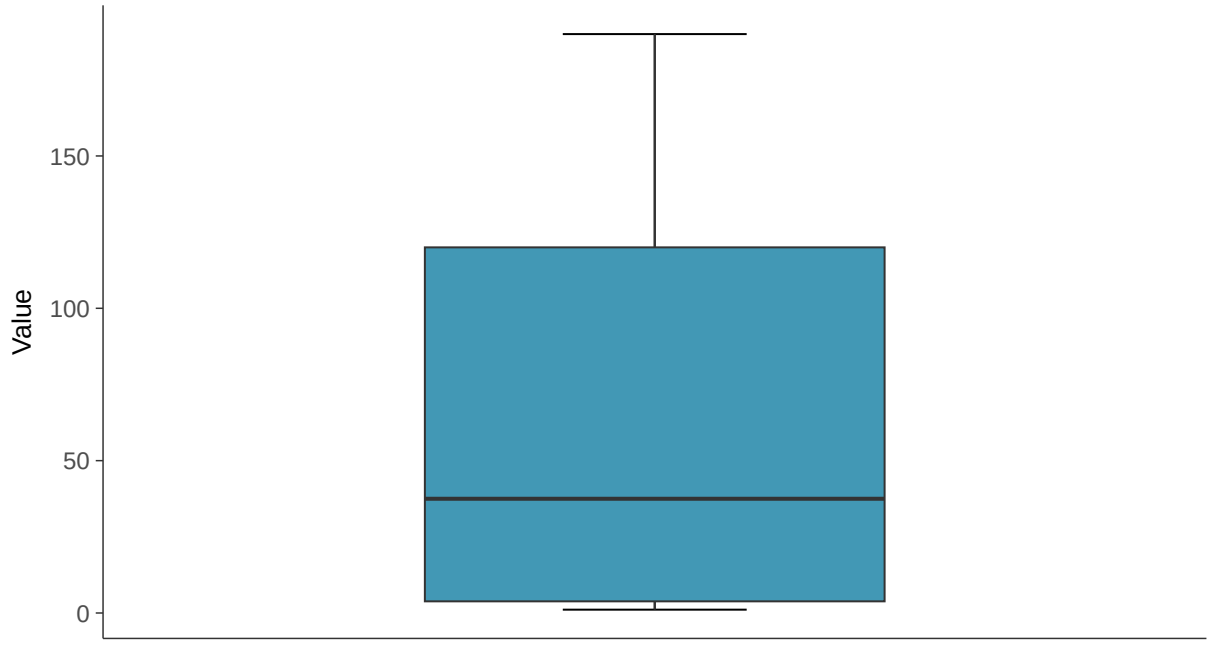
Histogram

Sulfate (as SO4), MW-16 (mg/L)



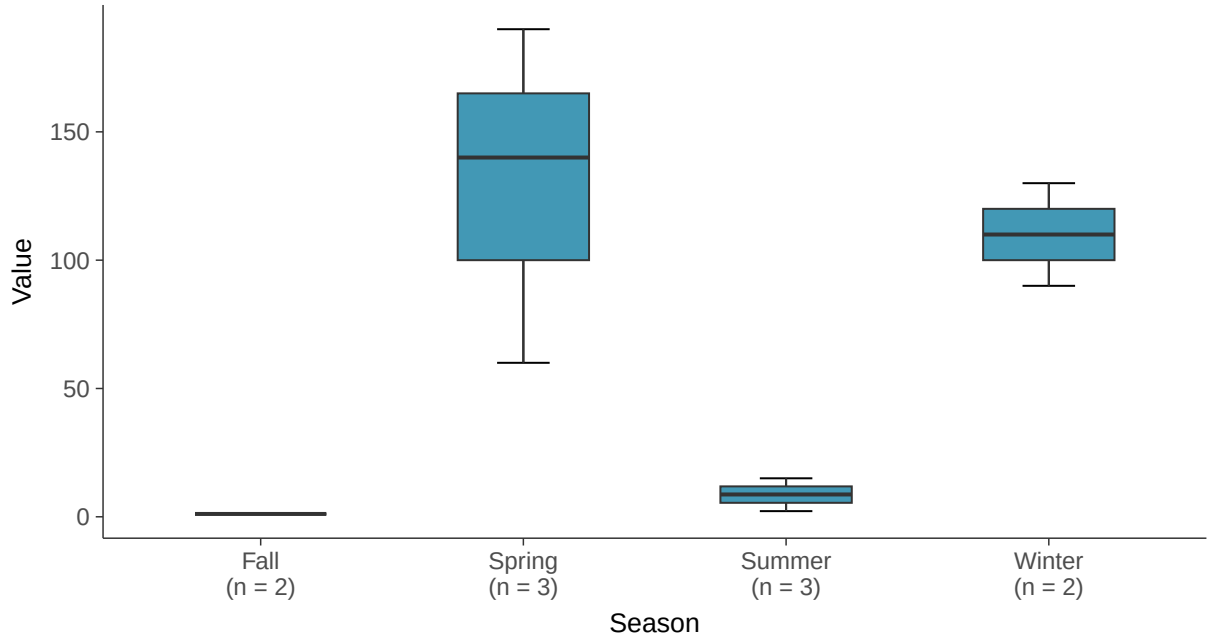
Boxplot

Sulfate (as SO4), MW-16 (mg/L)



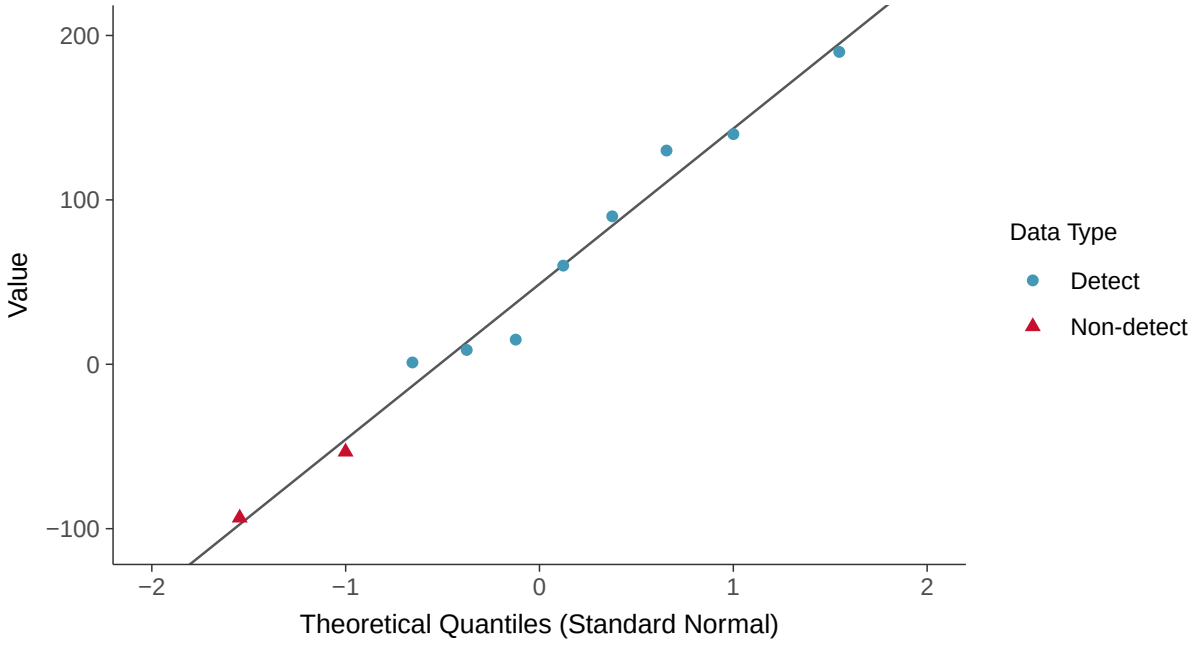
Boxplot by Season

Sulfate (as SO4), MW-16 (mg/L)



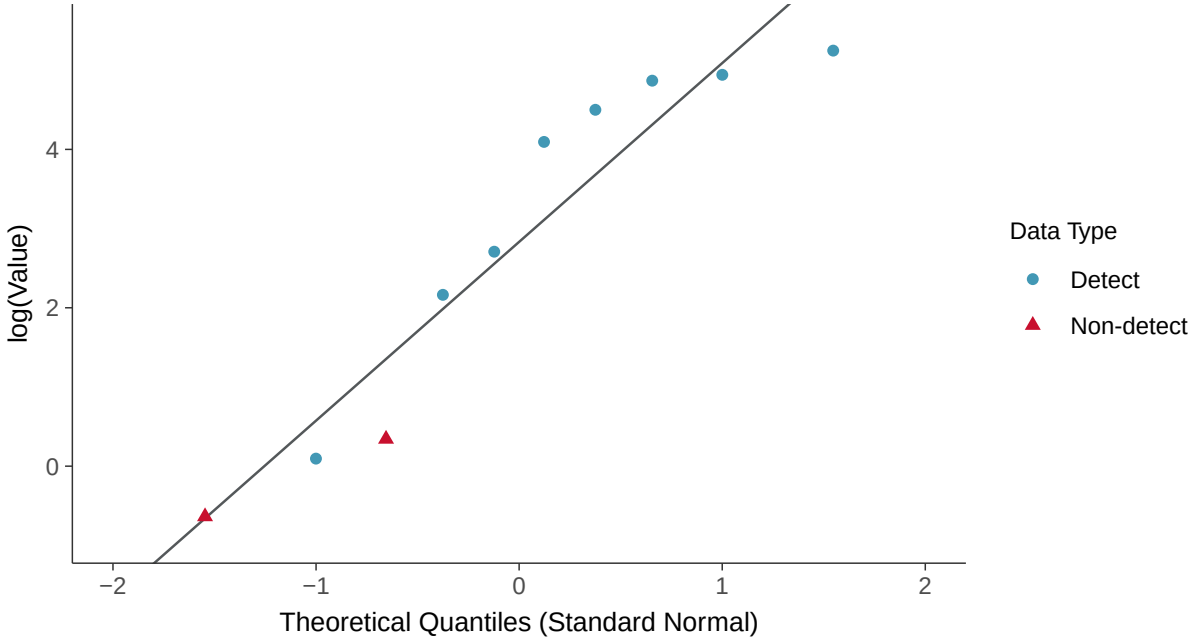
Normal Q-Q plot using ROS Imputed Estimates

Sulfate (as SO4), MW-16 (mg/L)



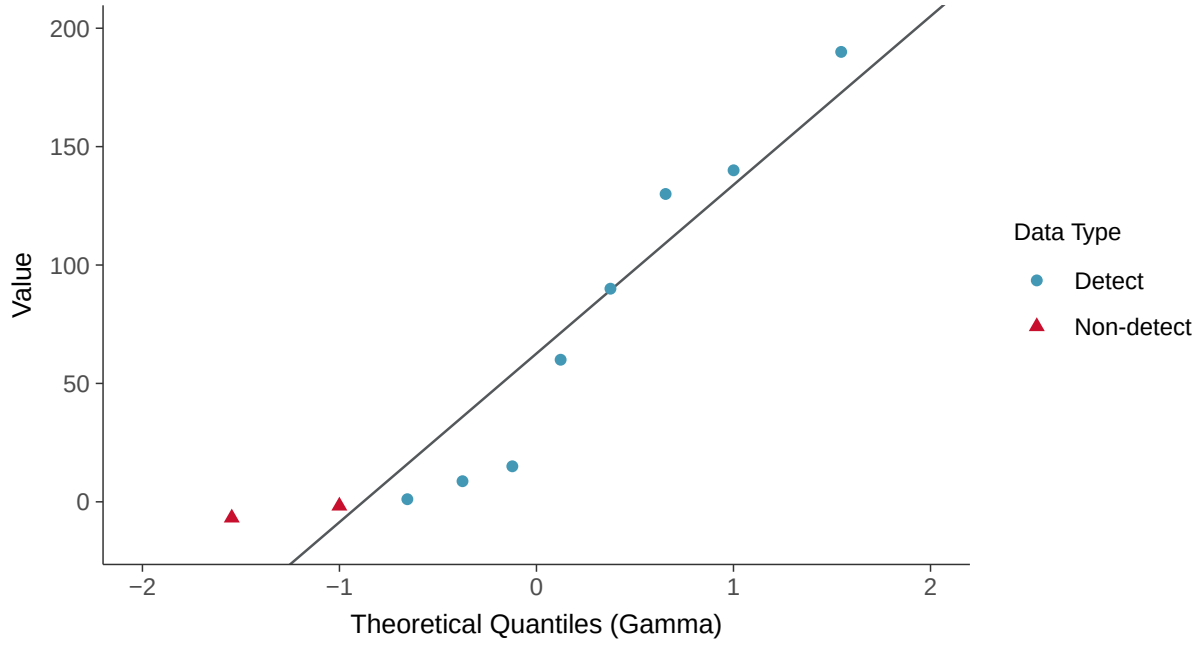
Lognormal Q-Q plot using ROS Imputed Estimates

Sulfate (as SO4), MW-16 (mg/L)



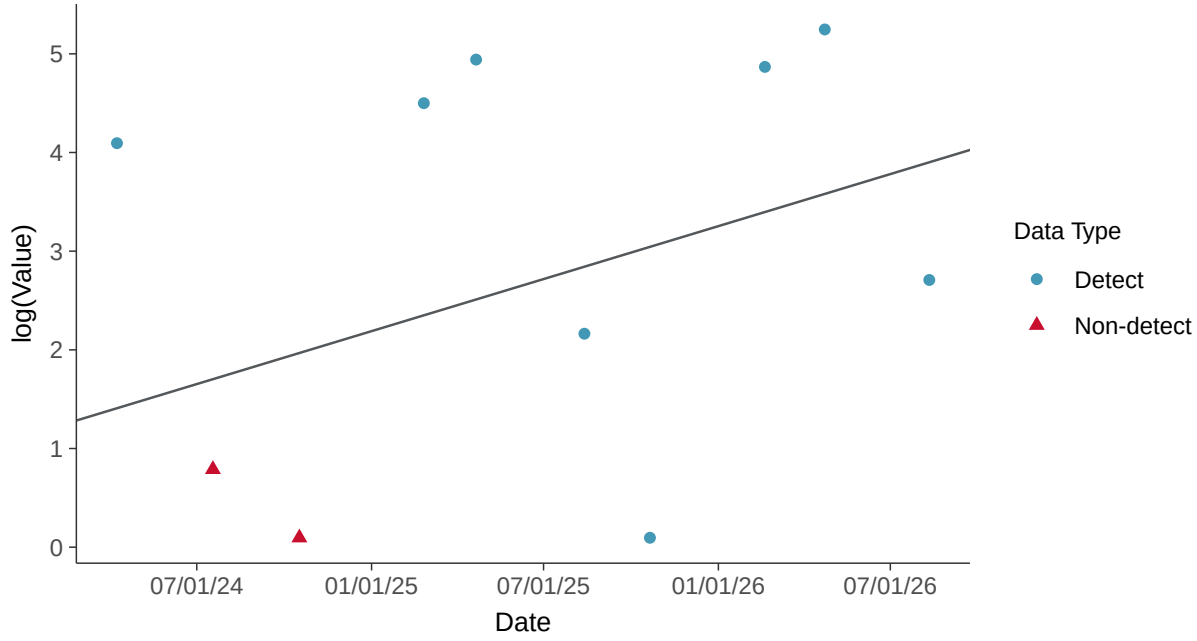
Gamma Q-Q plot using ROS Imputed Estimates

Sulfate (as SO4), MW-16 (mg/L)



Trend Regression: Lognormal MLE

Sulfate (as SO4), MW-16 (mg/L)

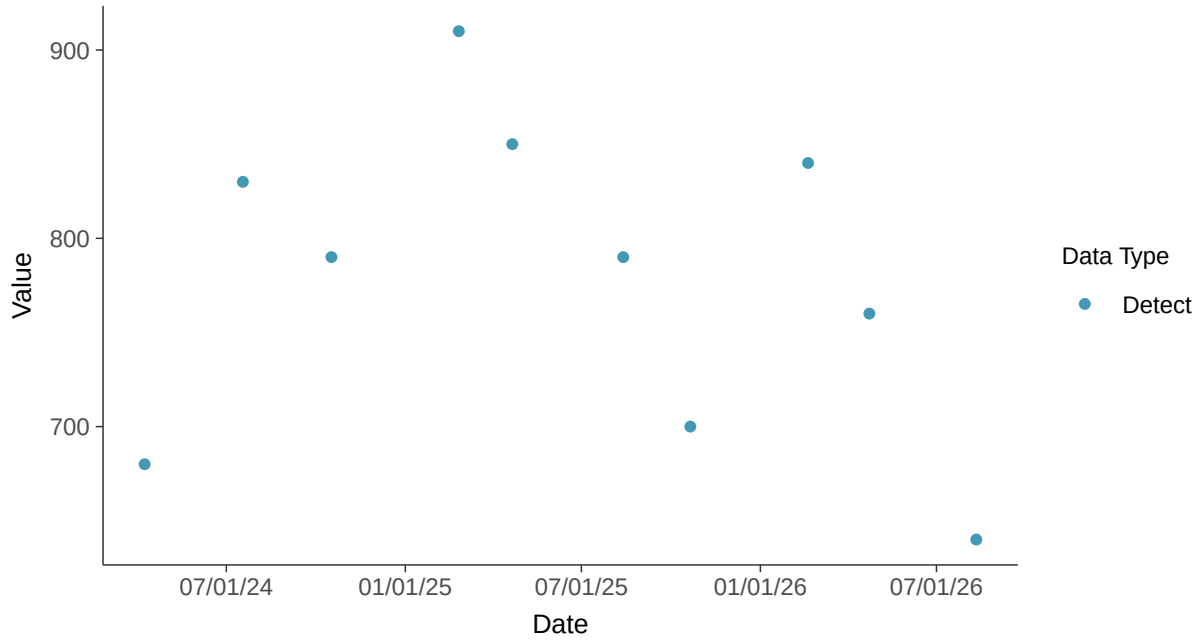


Appendix III: Total Dissolved Solids, MW-16

ID: 26_1_3_126

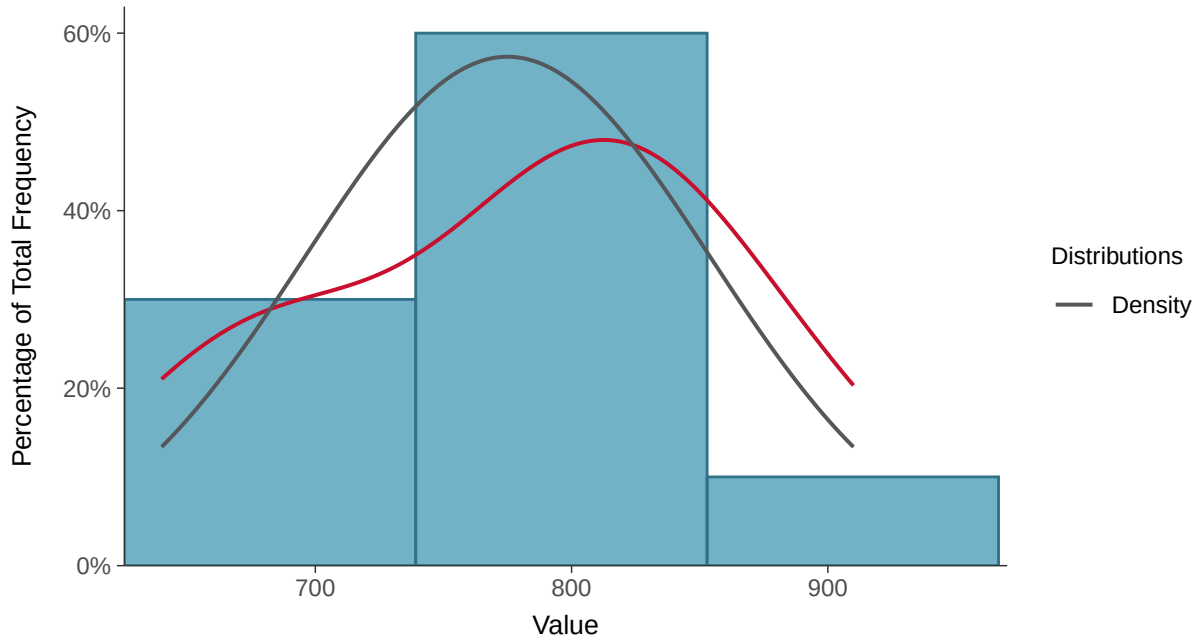
Scatter Plot

Total Dissolved Solids, MW-16 (mg/L)



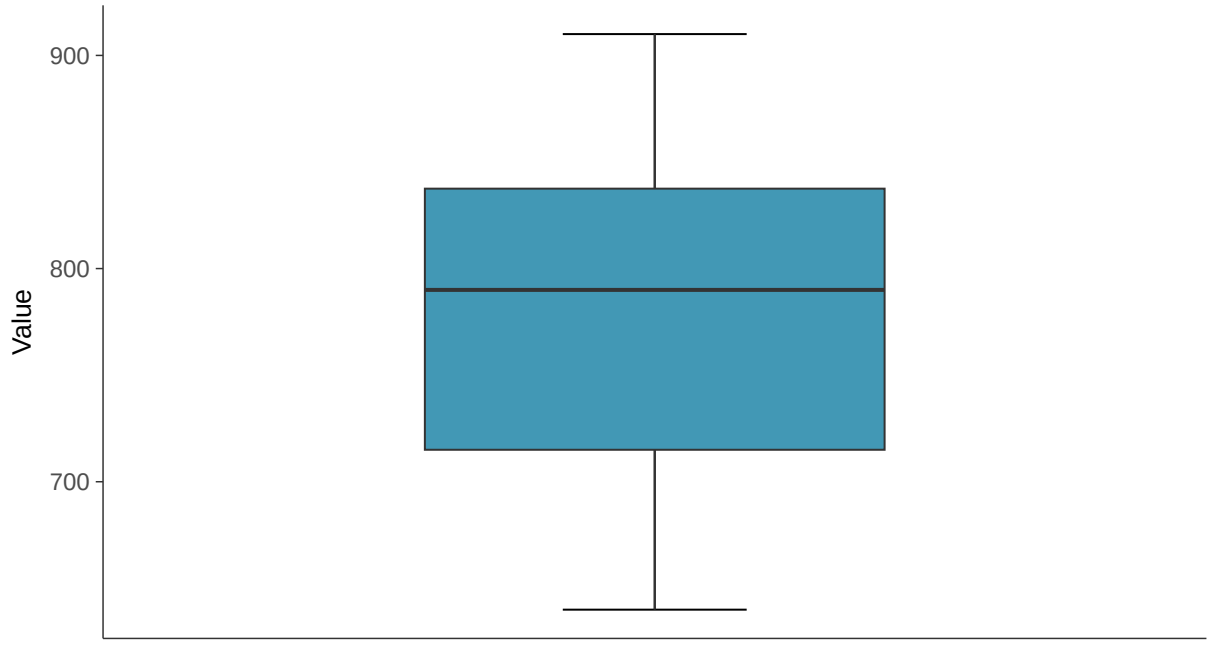
Histogram

Total Dissolved Solids, MW-16 (mg/L)



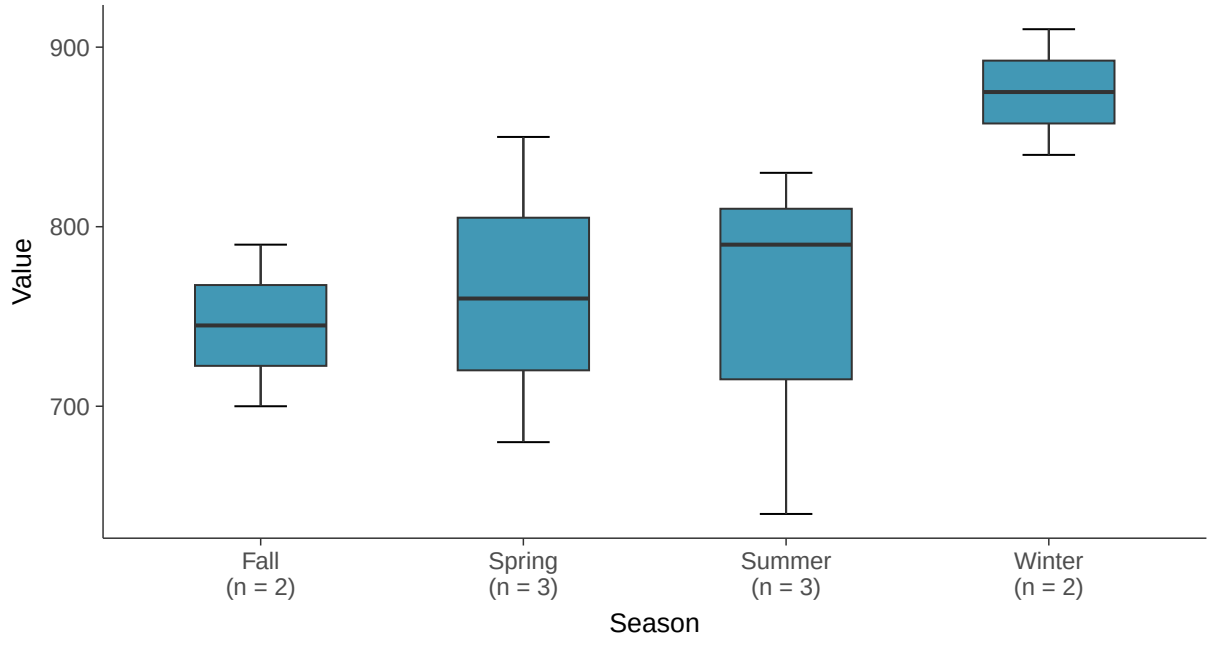
Boxplot

Total Dissolved Solids, MW-16 (mg/L)



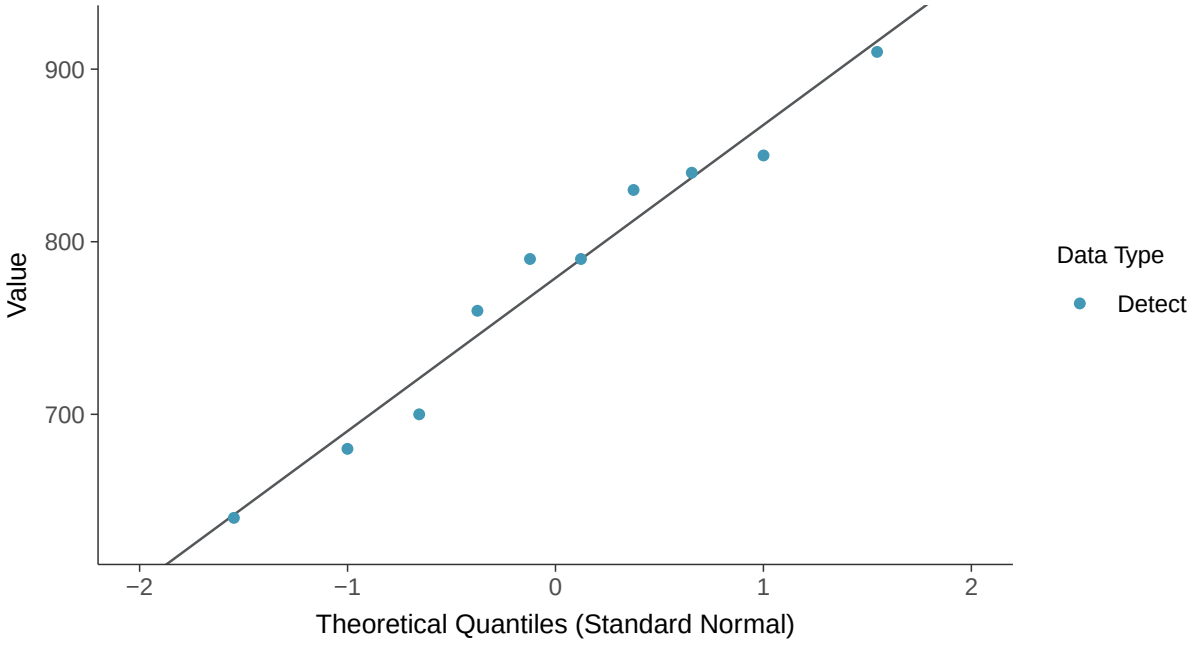
Boxplot by Season

Total Dissolved Solids, MW-16 (mg/L)



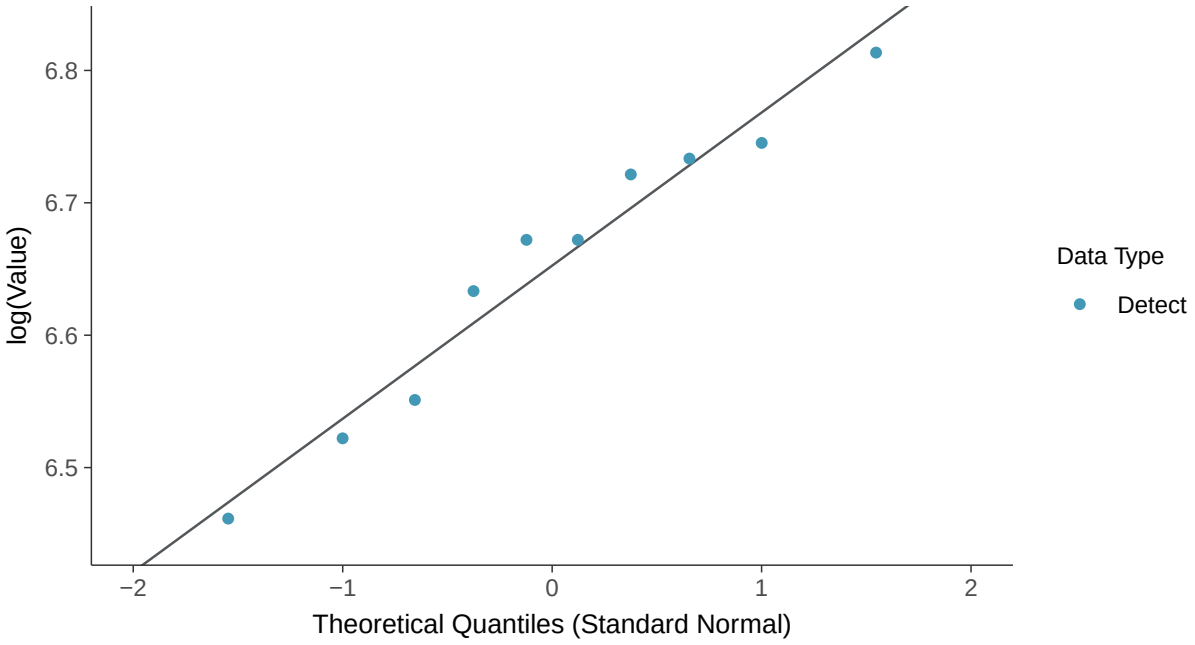
Normal Q-Q plot

Total Dissolved Solids, MW-16 (mg/L)



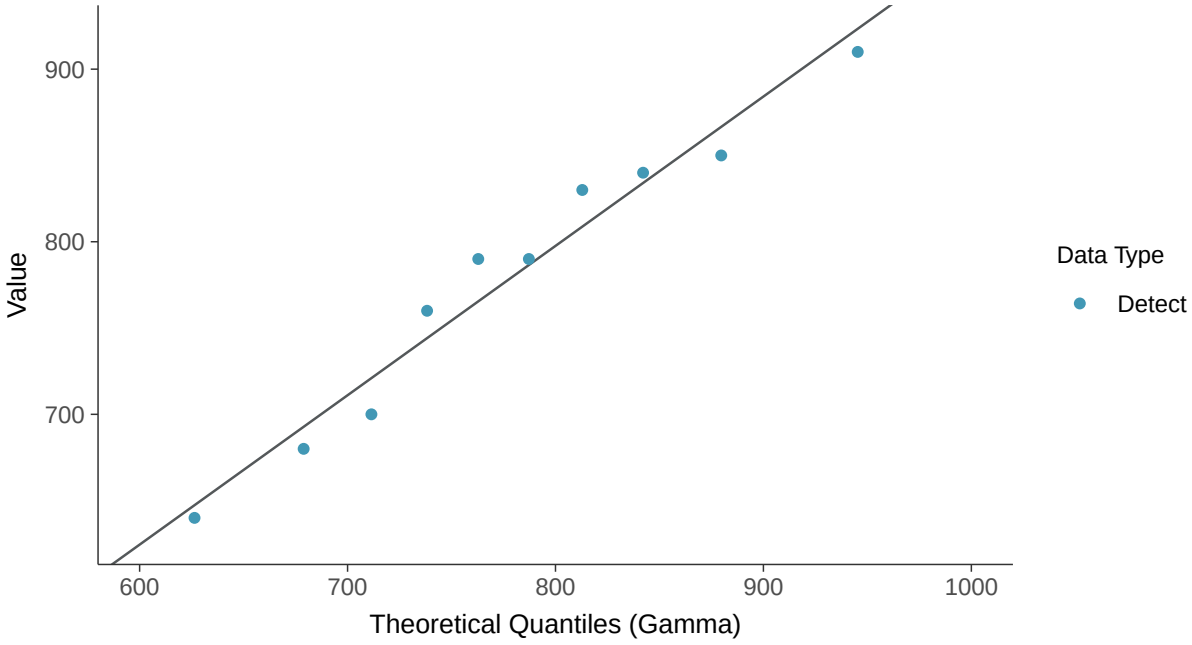
Lognormal Q-Q plot

Total Dissolved Solids, MW-16 (mg/L)



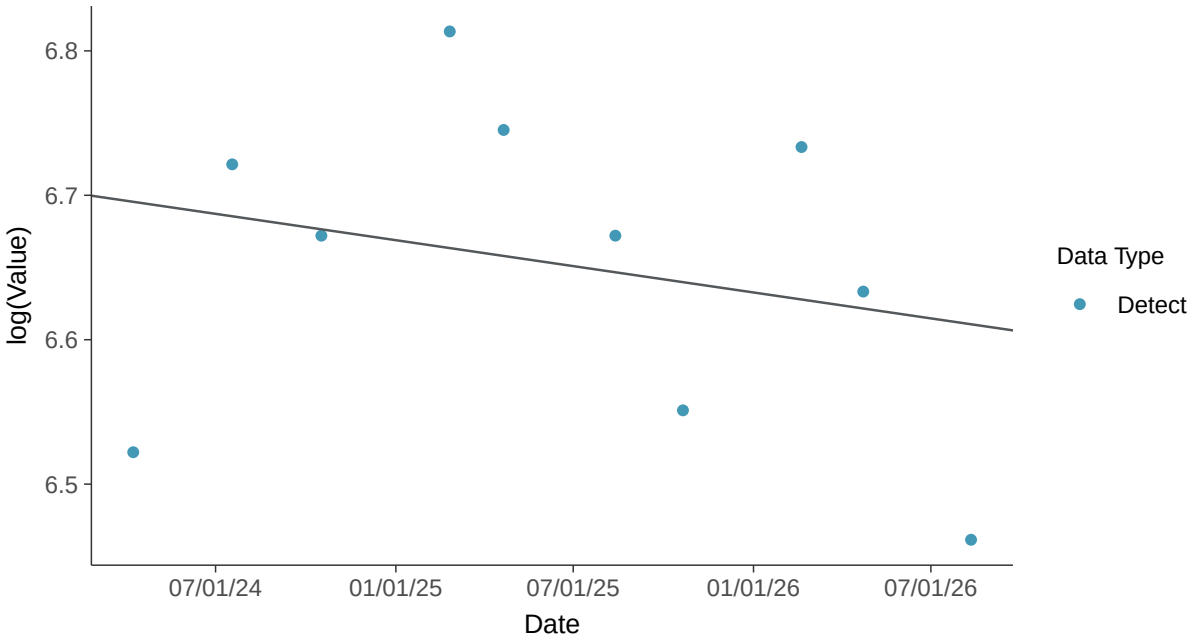
Gamma Q-Q plot

Total Dissolved Solids, MW-16 (mg/L)



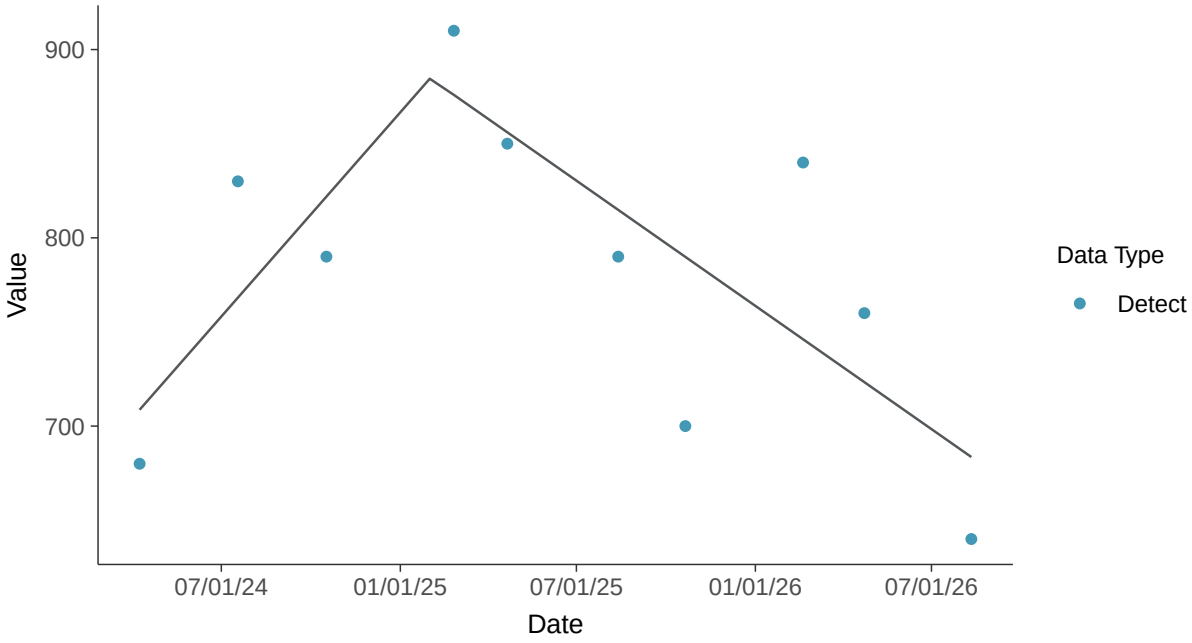
Trend Regression: Lognormal MLE

Total Dissolved Solids, MW-16 (mg/L)



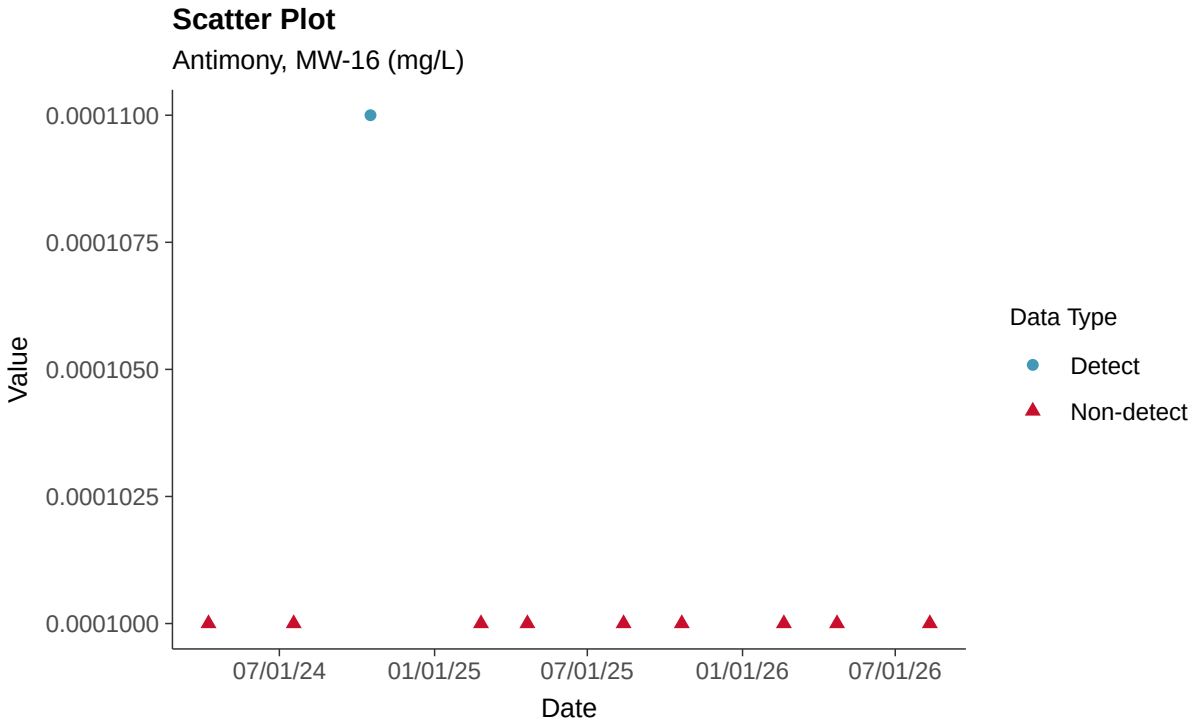
Trend Regression: Piecewise Linear-Linear

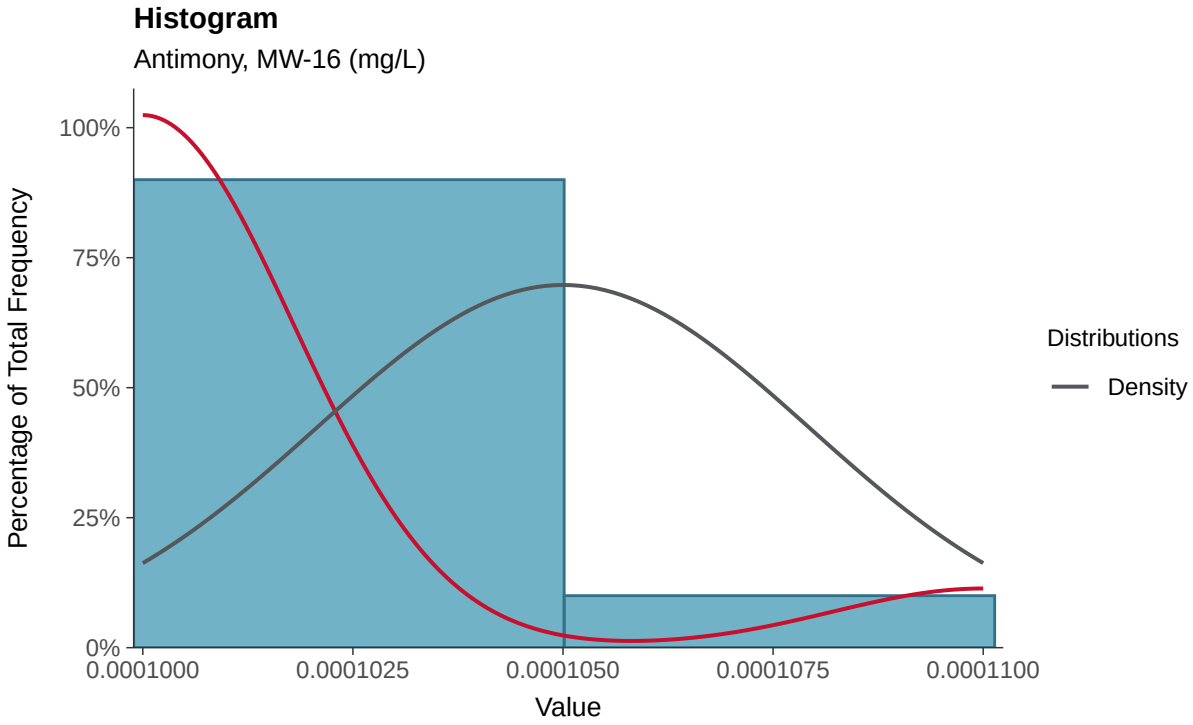
Total Dissolved Solids, MW-16 (mg/L)



Appendix IV: Antimony, MW-16

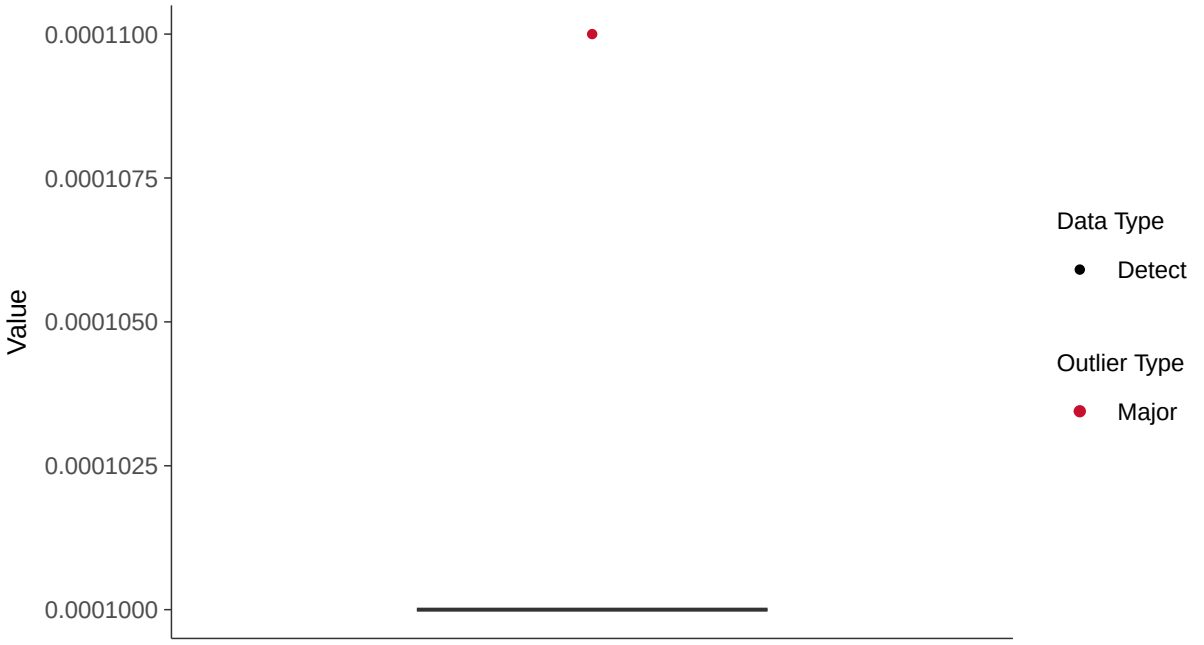
ID: 26_1_4_101





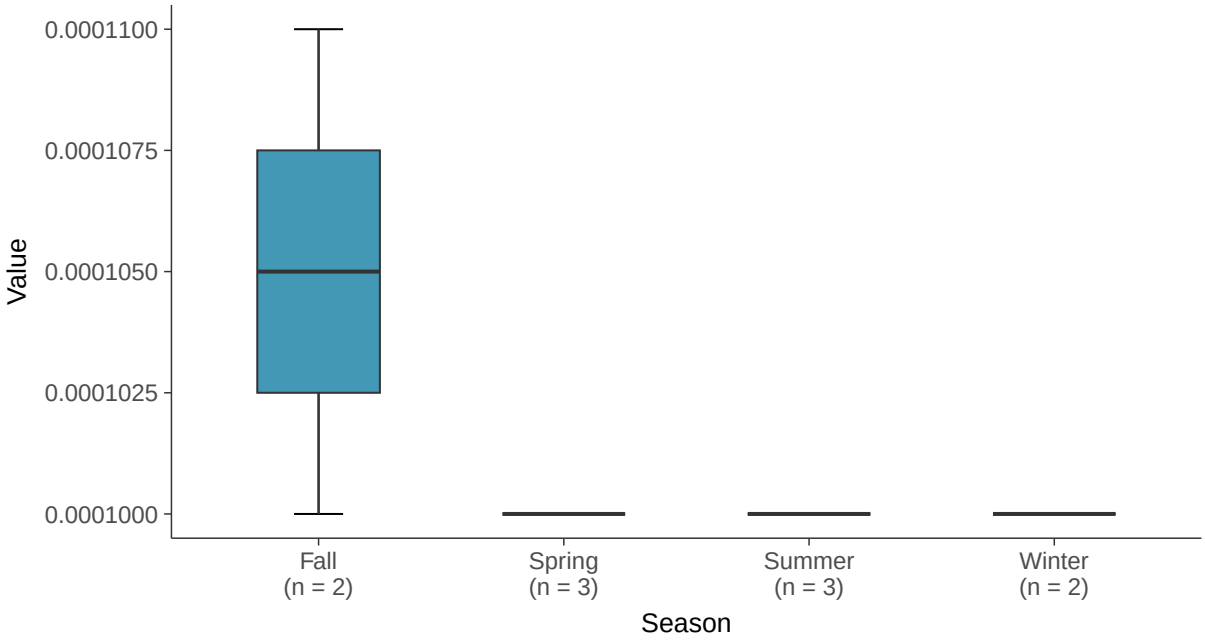
Boxplot

Antimony, MW-16 (mg/L)



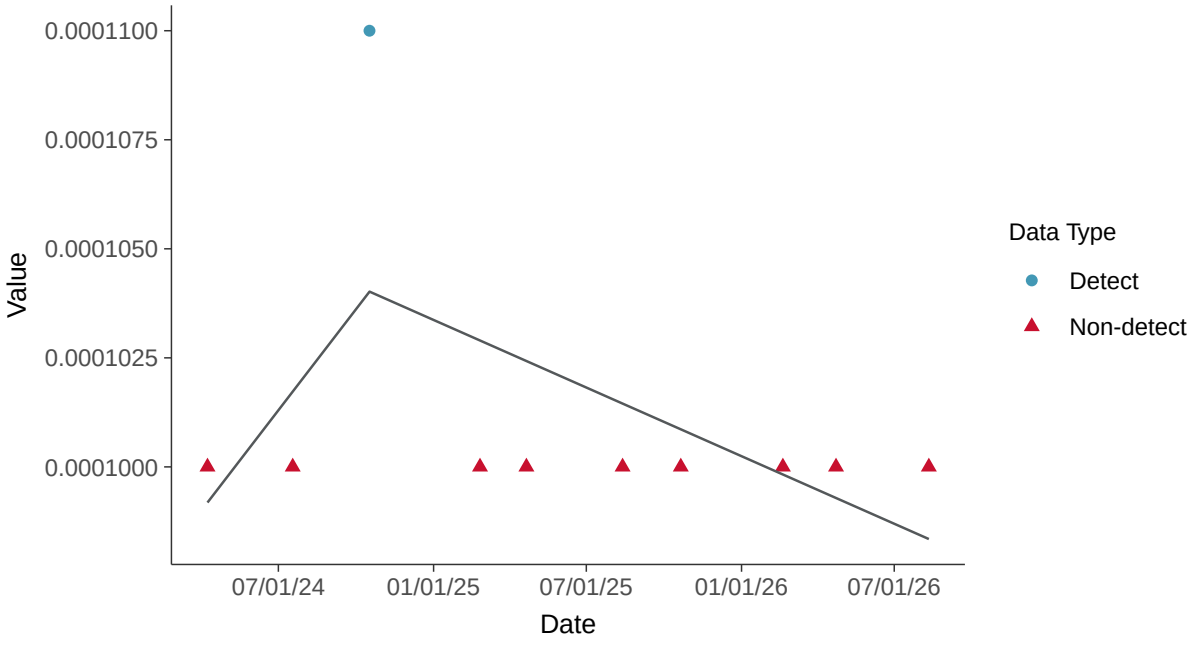
Boxplot by Season

Antimony, MW-16 (mg/L)



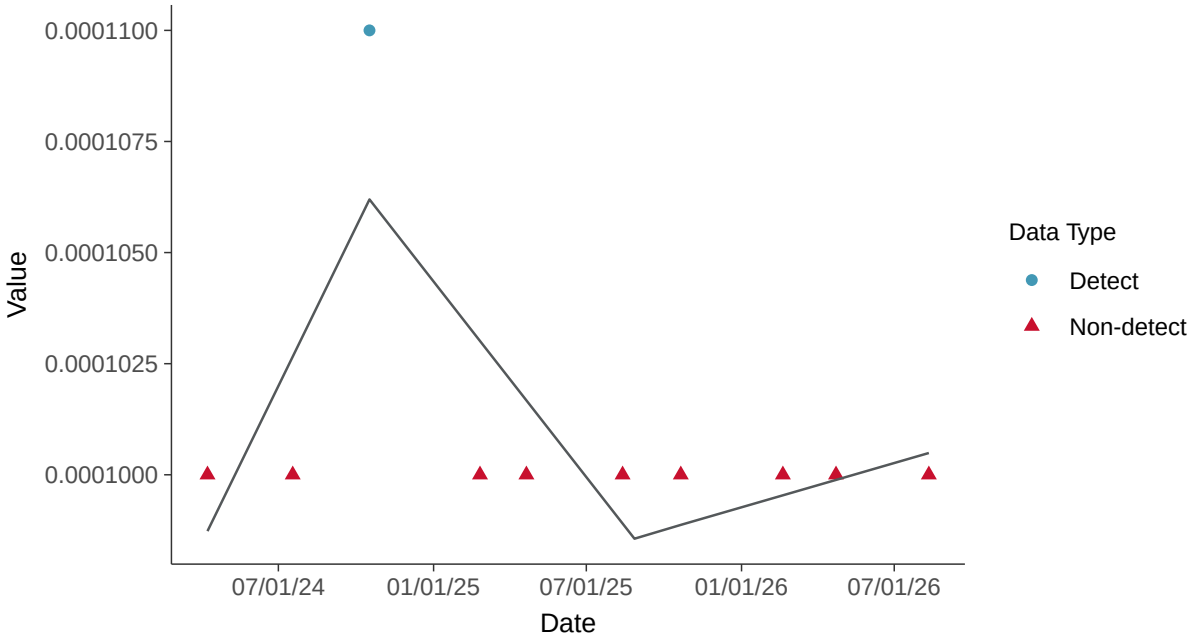
Trend Regression: Piecewise Linear-Linear

Antimony, MW-16 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Antimony, MW-16 (mg/L)

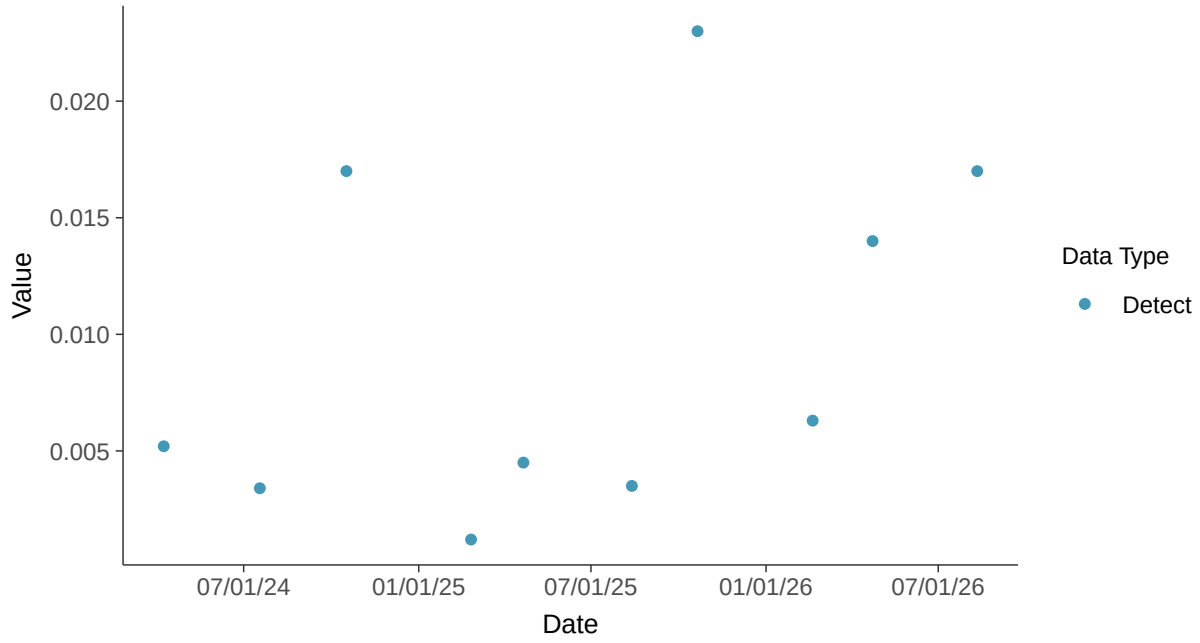


Appendix IV: Arsenic, MW-16

ID: 26_1_4_102

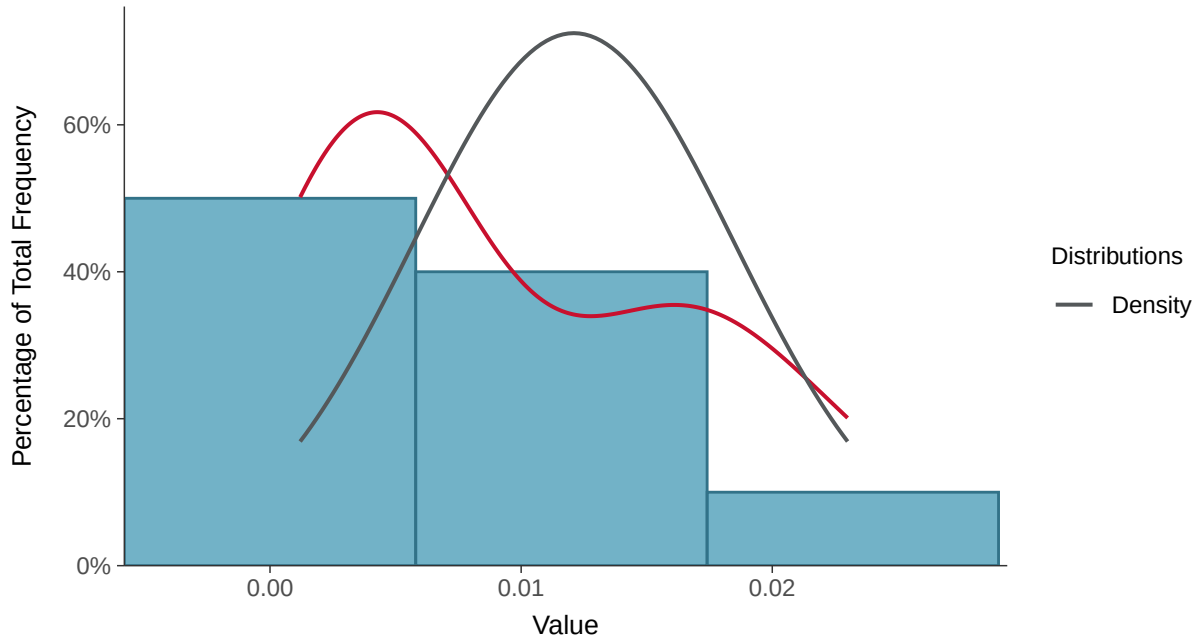
Scatter Plot

Arsenic, MW-16 (mg/L)



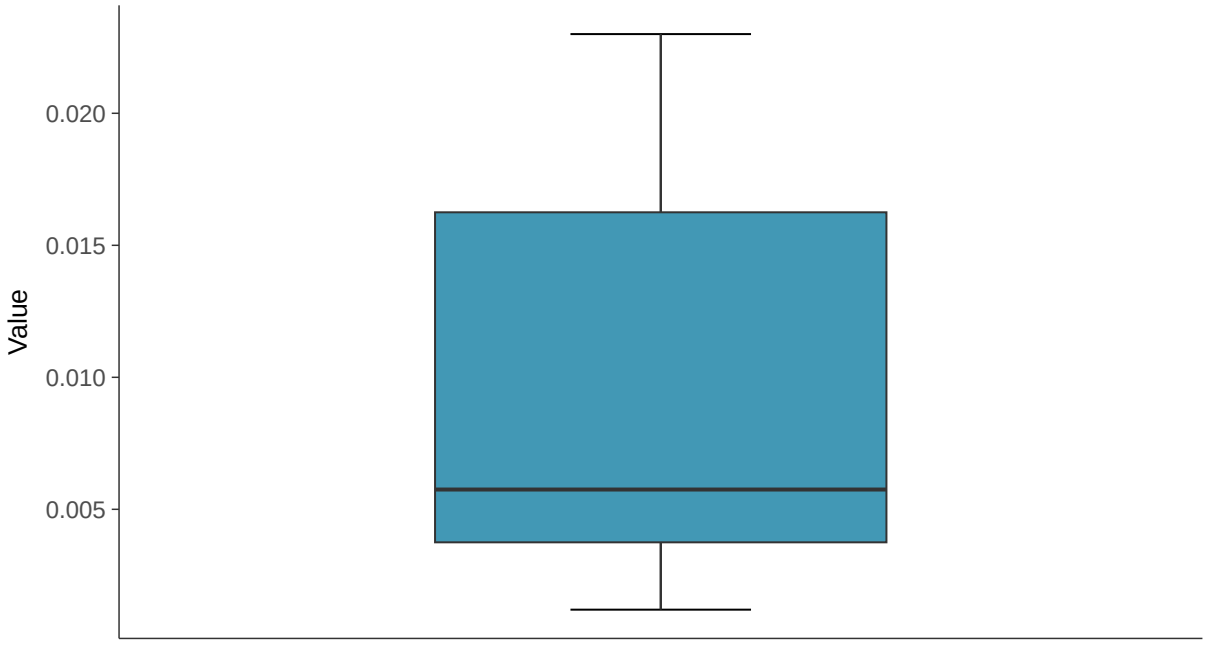
Histogram

Arsenic, MW-16 (mg/L)



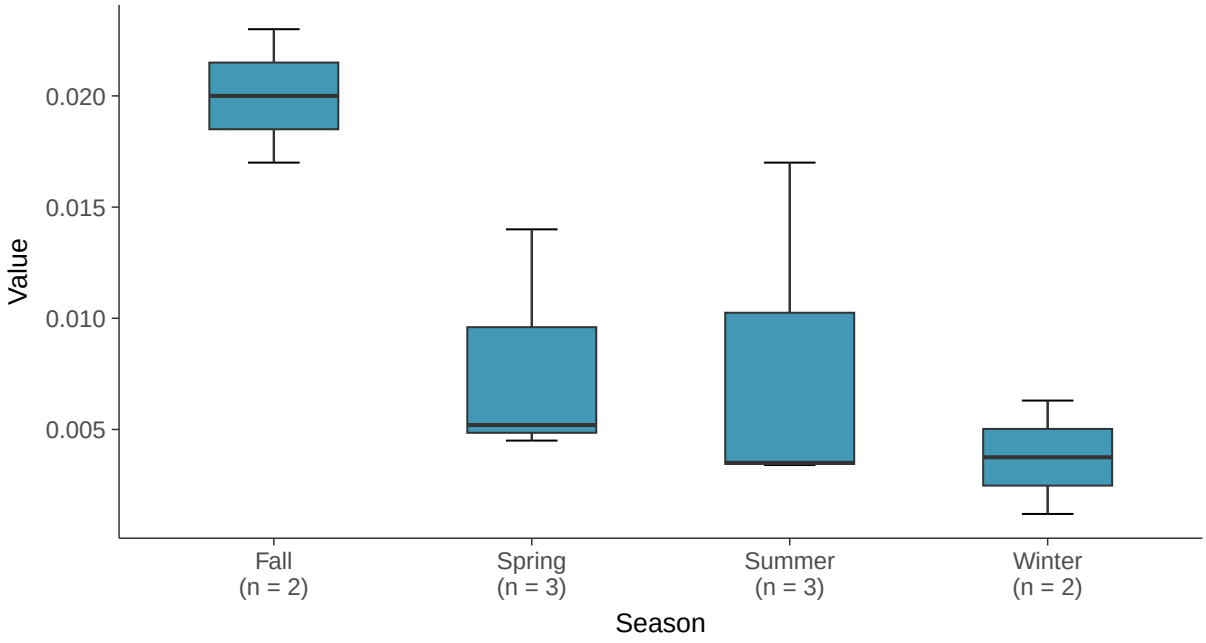
Boxplot

Arsenic, MW-16 (mg/L)



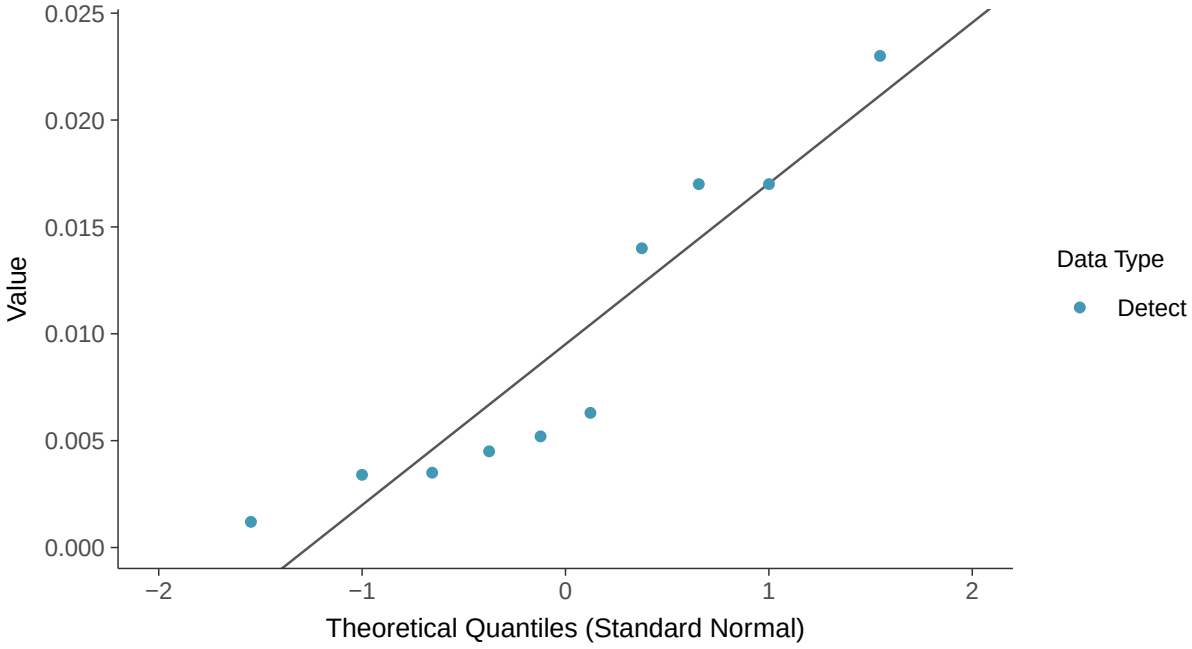
Boxplot by Season

Arsenic, MW-16 (mg/L)



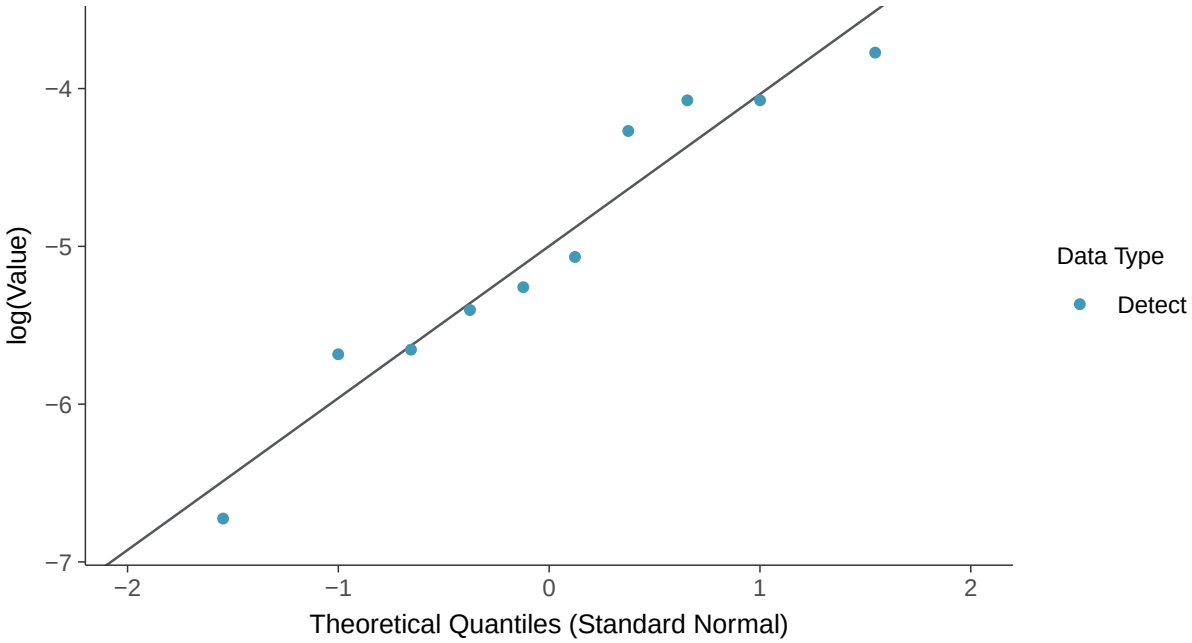
Normal Q-Q plot

Arsenic, MW-16 (mg/L)



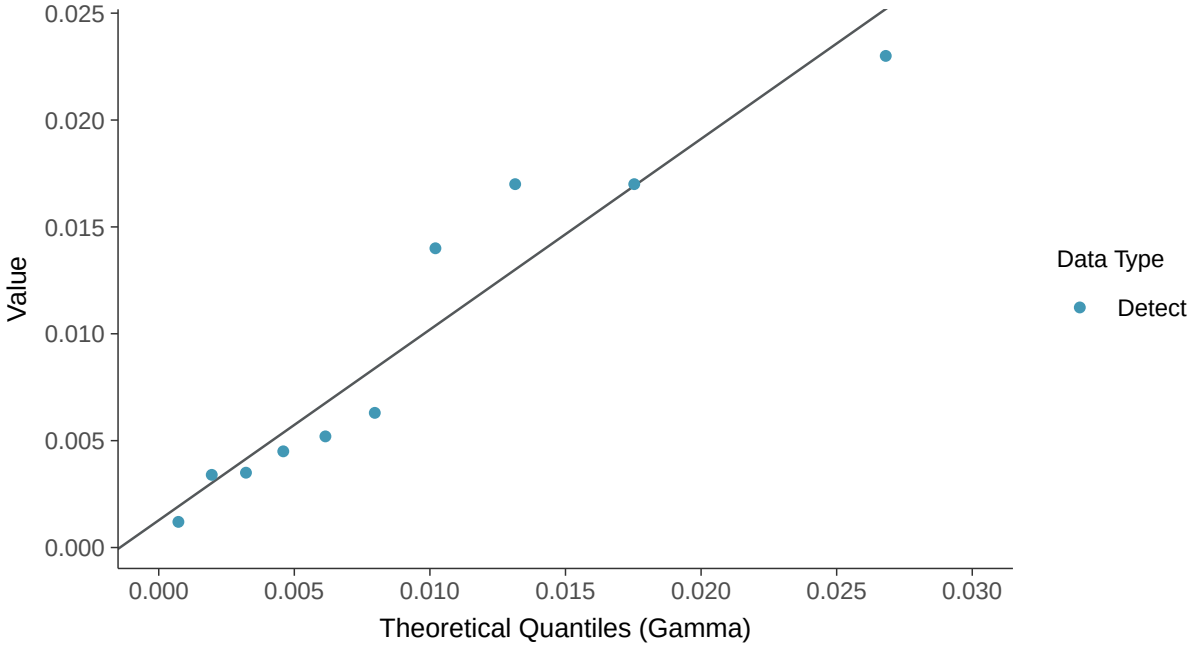
Lognormal Q-Q plot

Arsenic, MW-16 (mg/L)



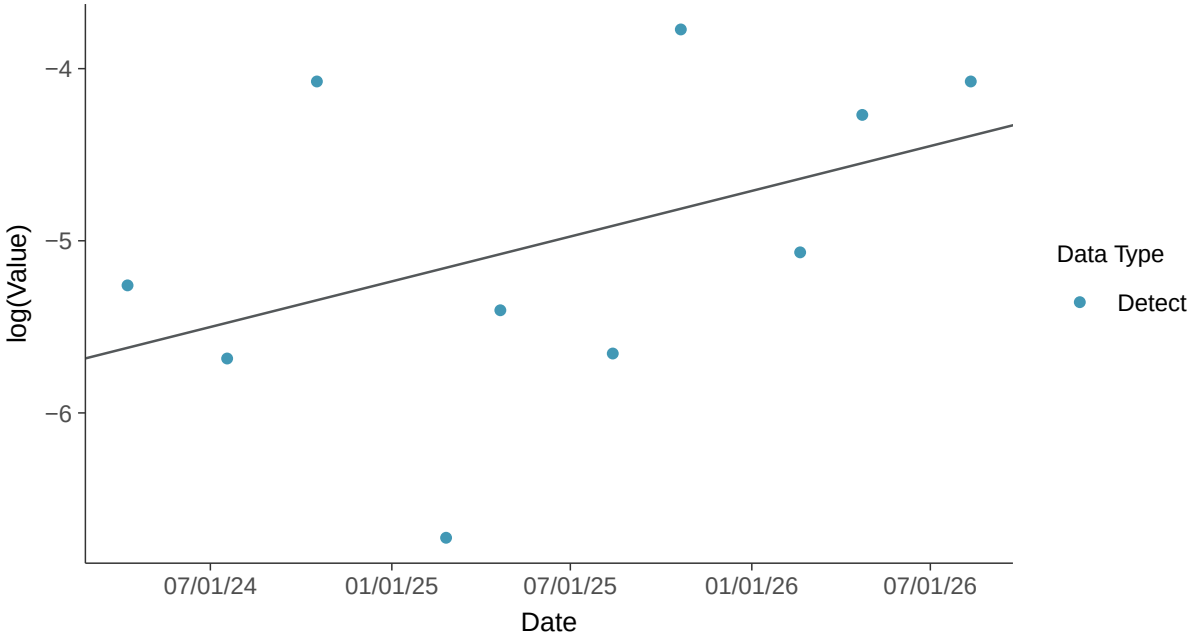
Gamma Q-Q plot

Arsenic, MW-16 (mg/L)



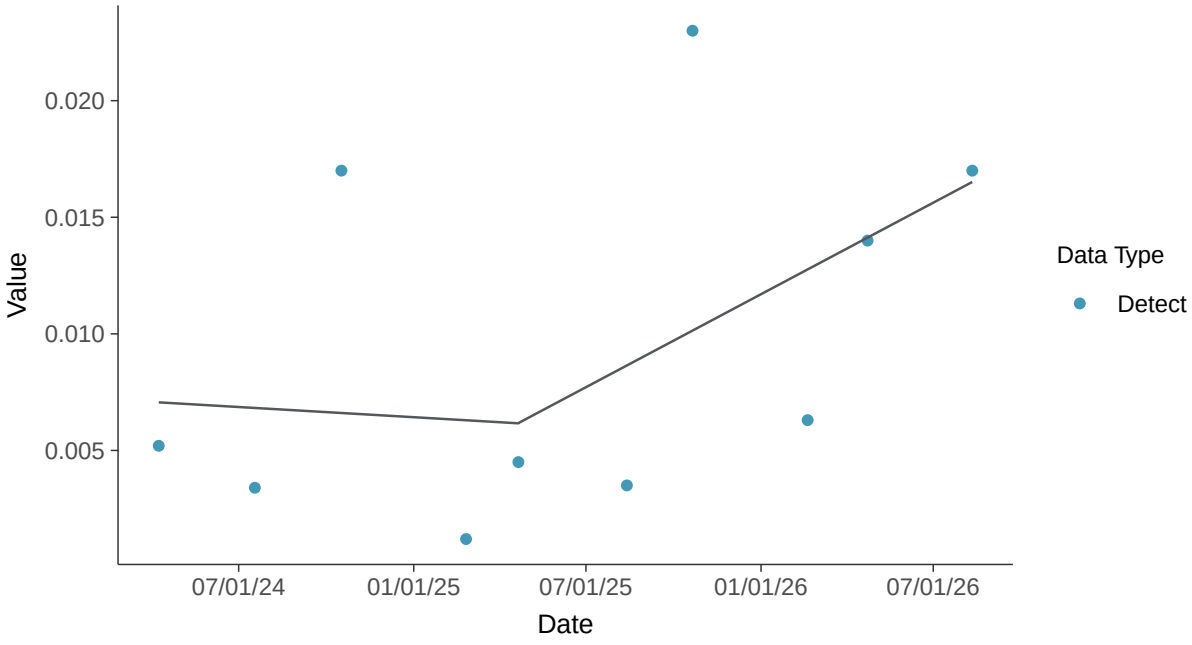
Trend Regression: Lognormal MLE

Arsenic, MW-16 (mg/L)



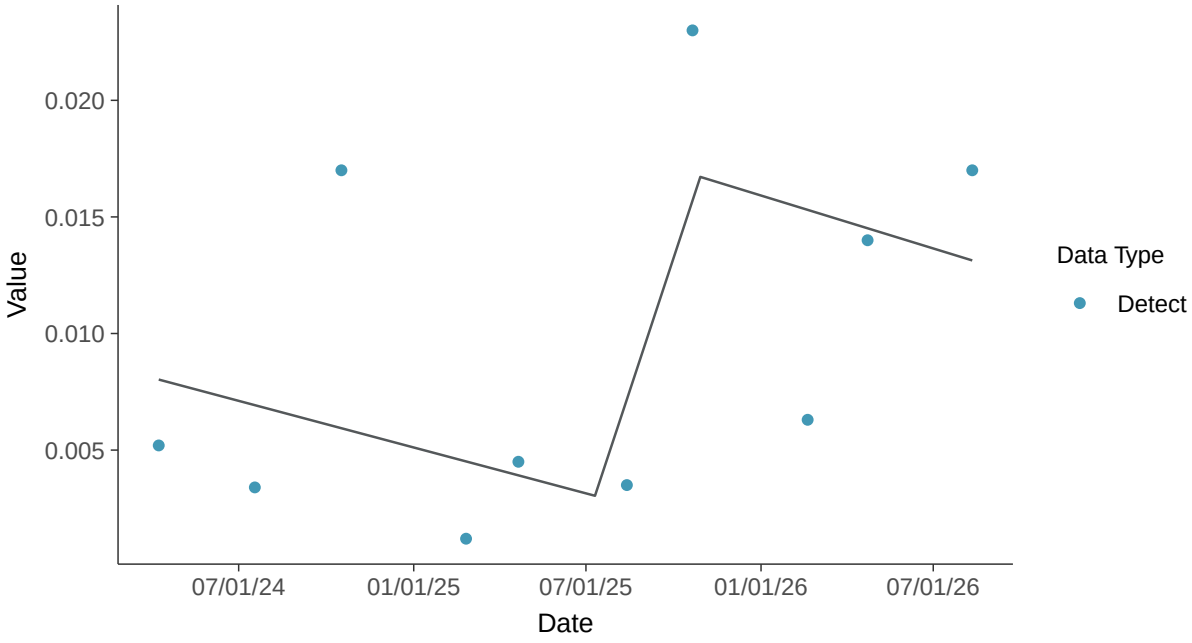
Trend Regression: Piecewise Linear-Linear

Arsenic, MW-16 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Arsenic, MW-16 (mg/L)

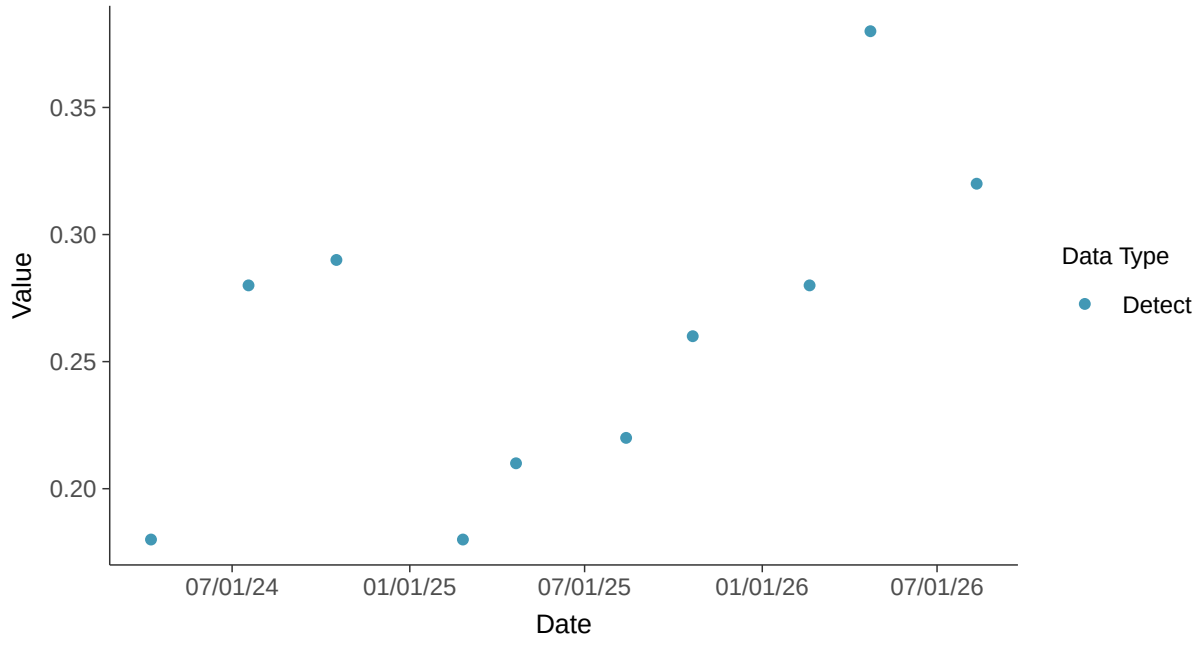


Appendix IV: Barium, MW-16

ID: 26_1_4_103

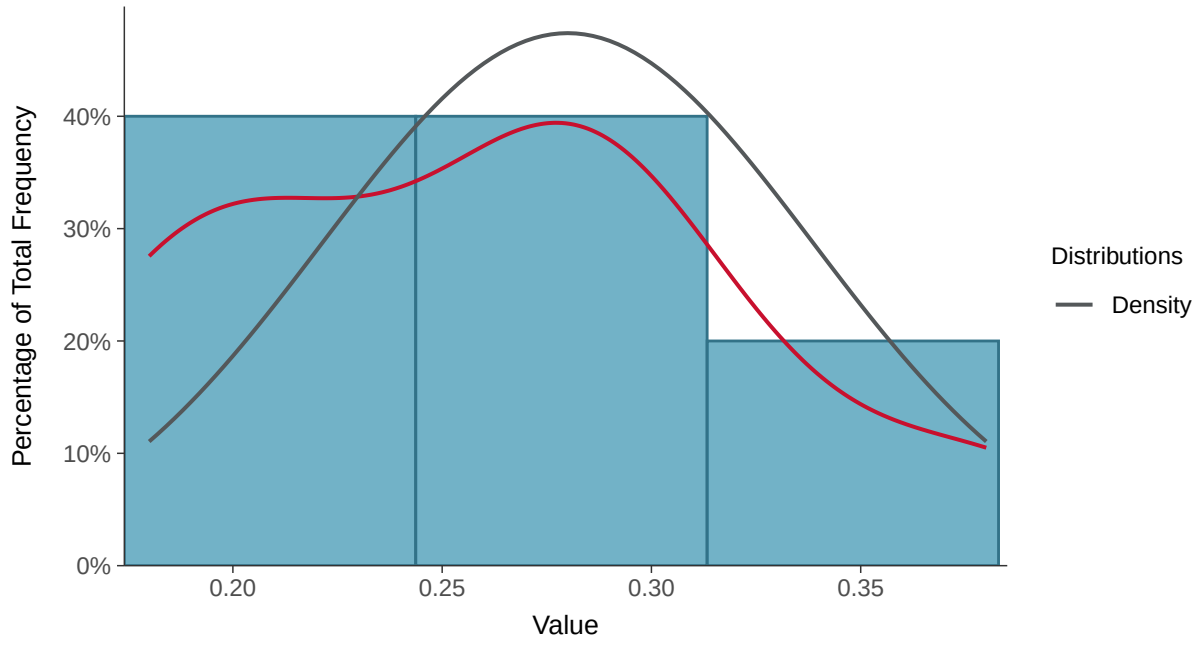
Scatter Plot

Barium, MW-16 (mg/L)



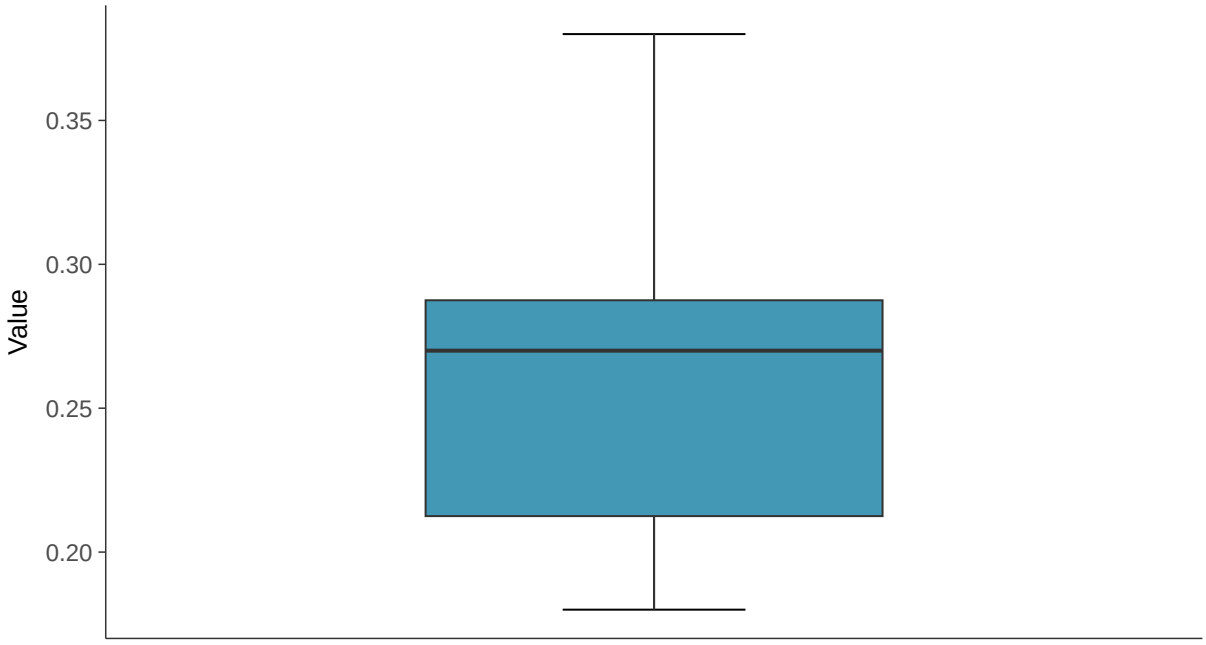
Histogram

Barium, MW-16 (mg/L)



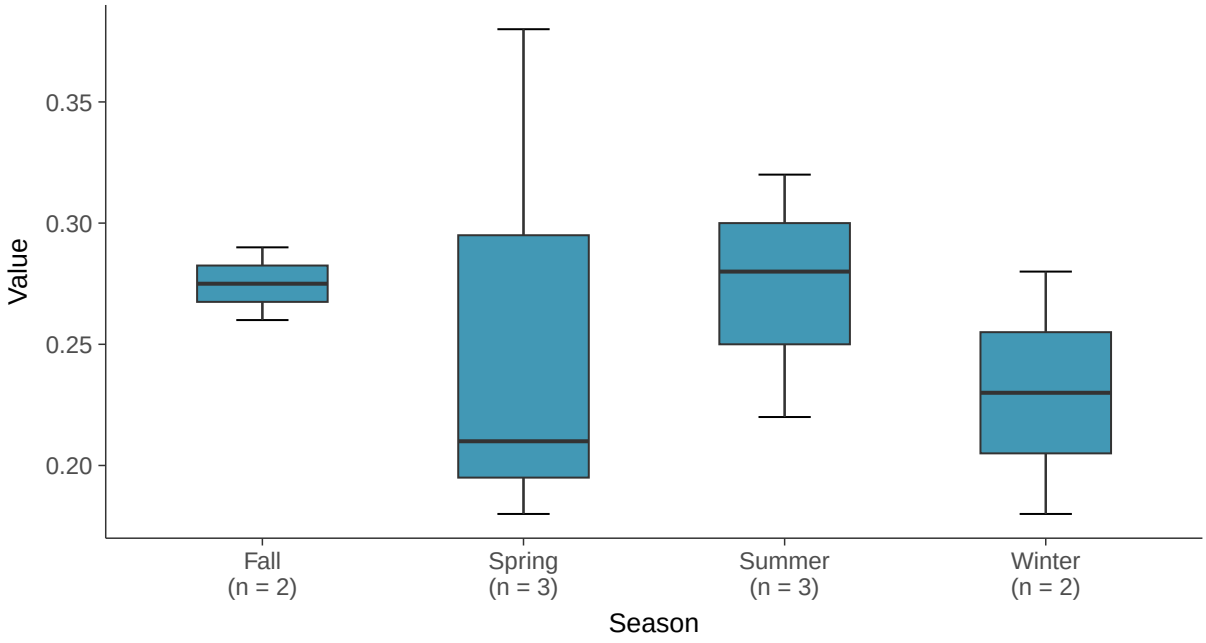
Boxplot

Barium, MW-16 (mg/L)



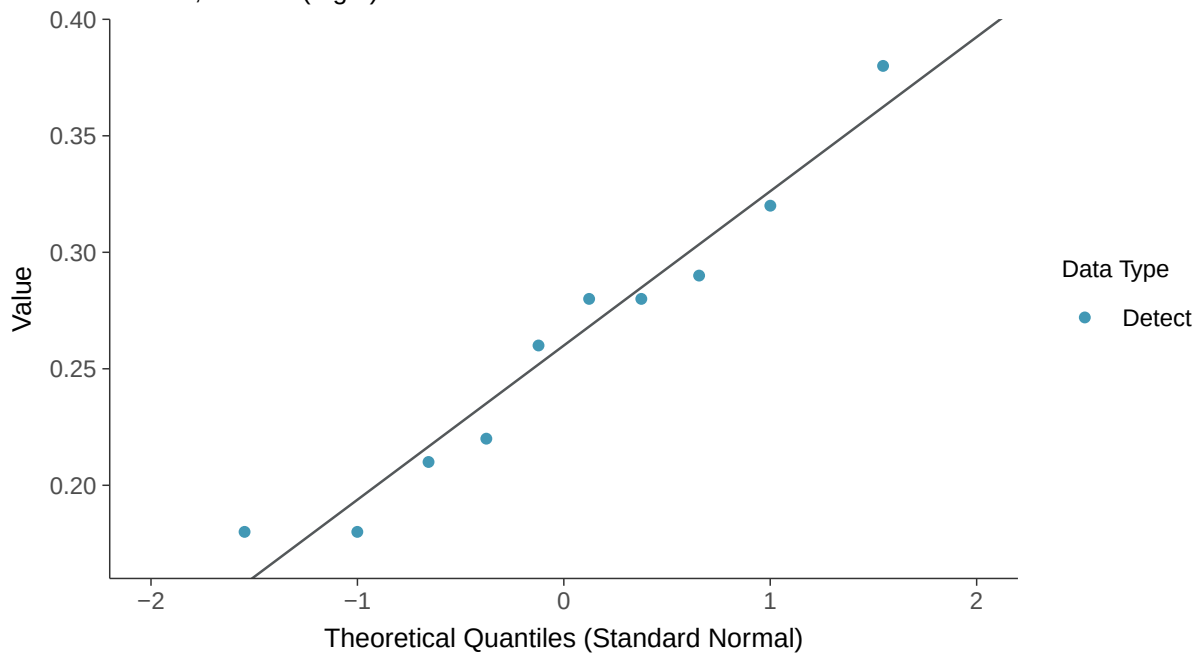
Boxplot by Season

Barium, MW-16 (mg/L)



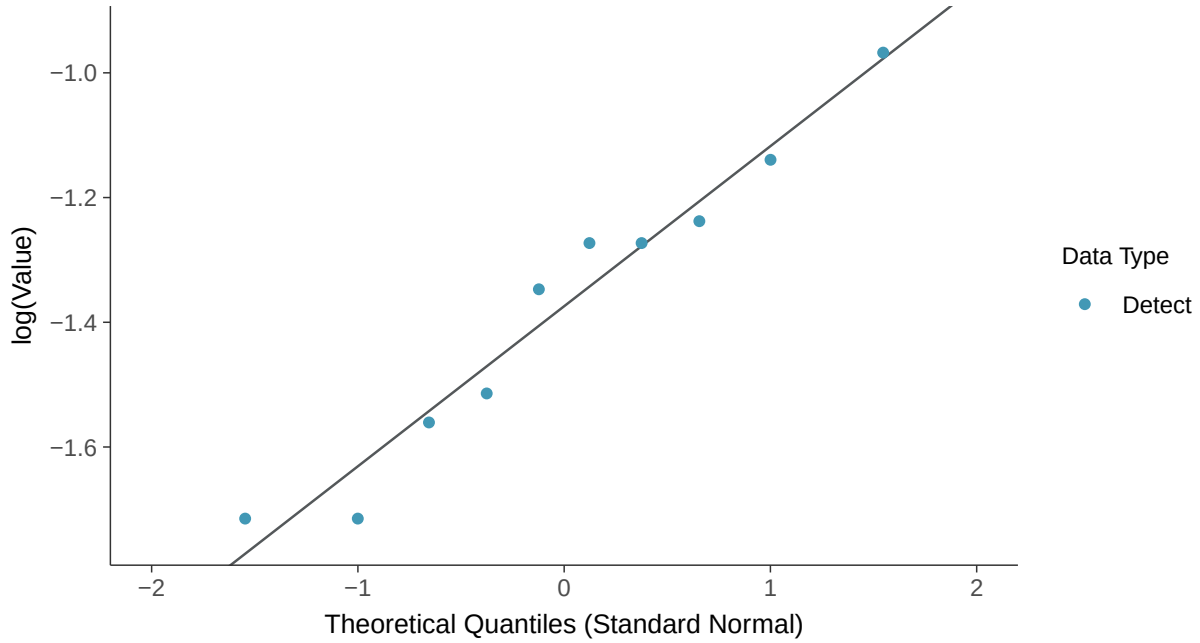
Normal Q-Q plot

Barium, MW-16 (mg/L)



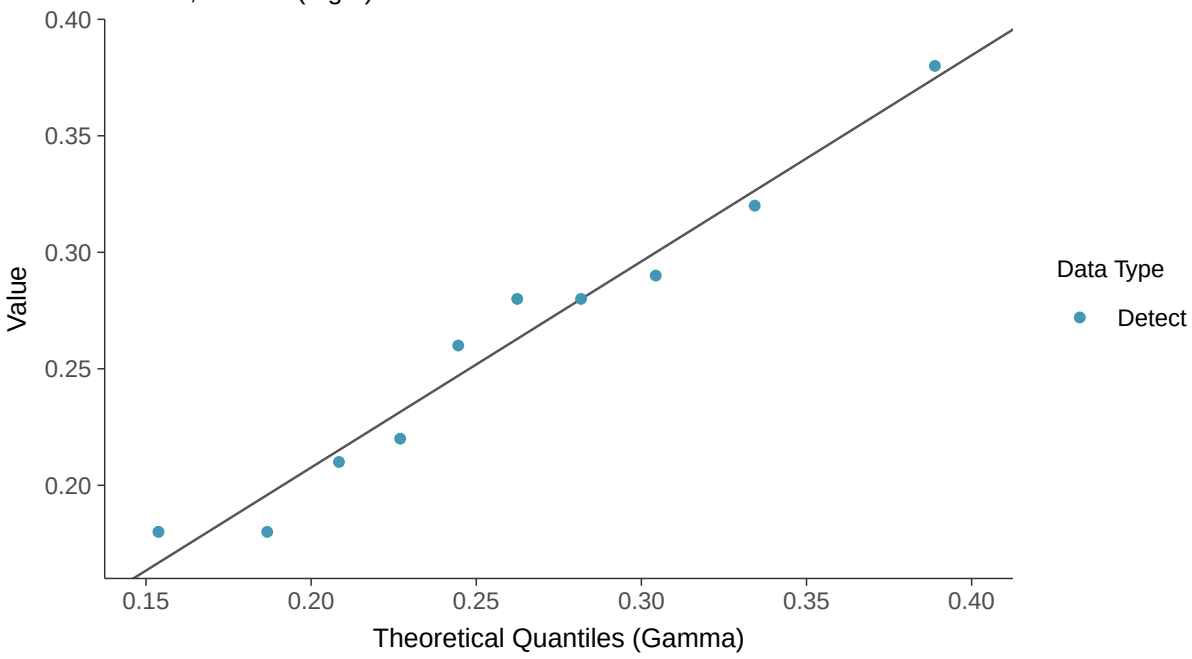
Lognormal Q-Q plot

Barium, MW-16 (mg/L)



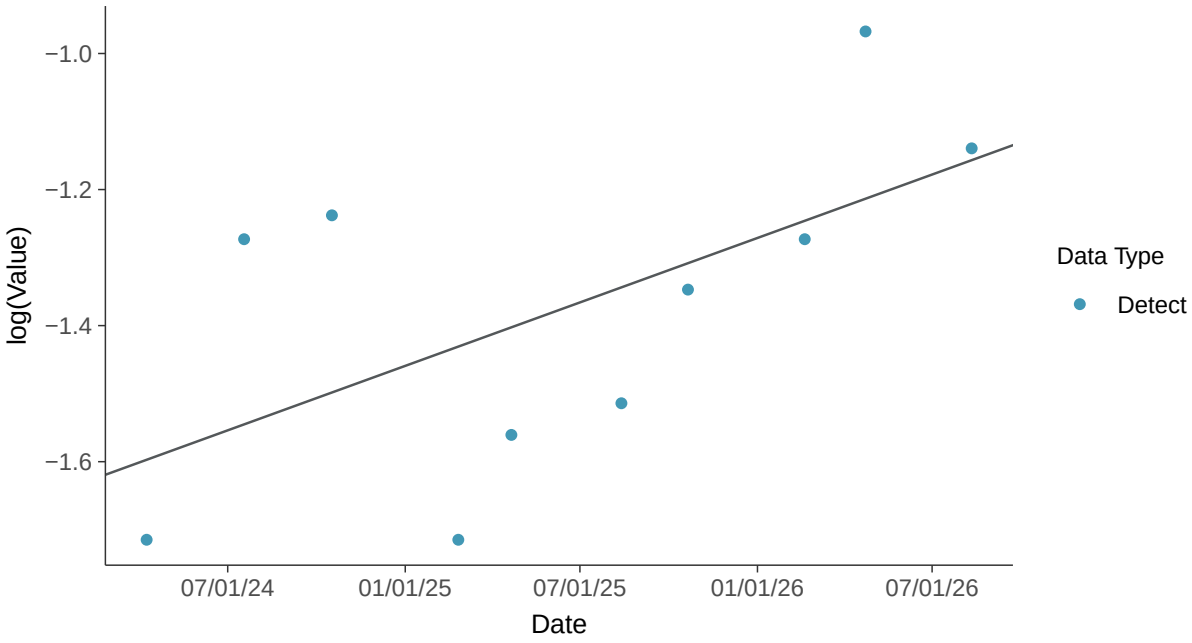
Gamma Q-Q plot

Barium, MW-16 (mg/L)



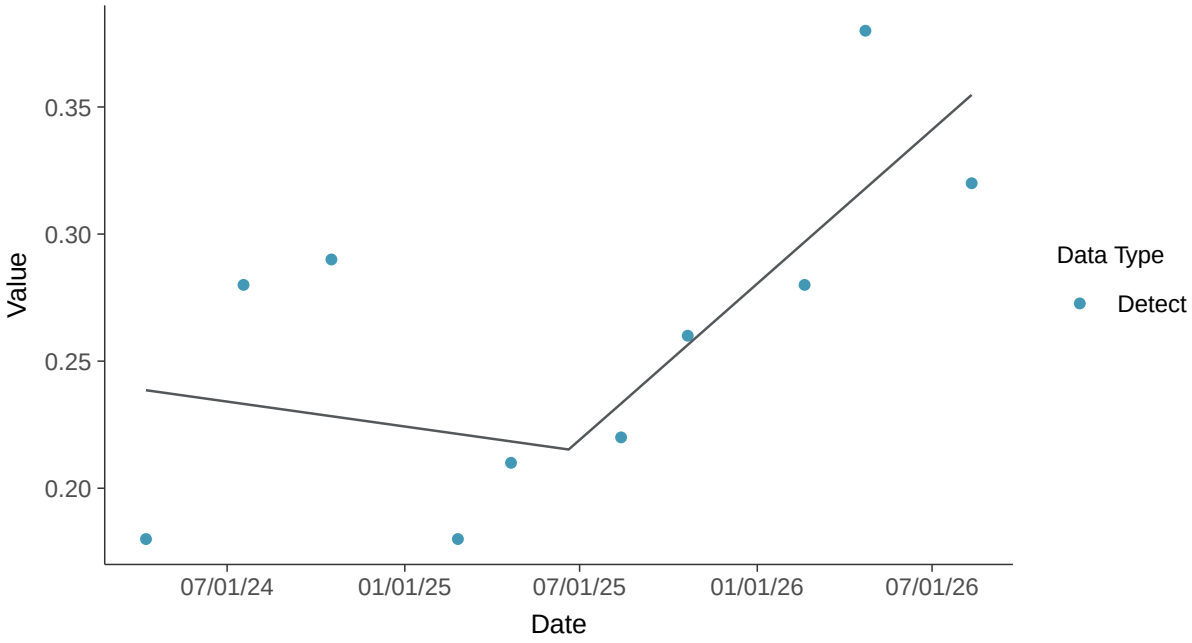
Trend Regression: Lognormal MLE

Barium, MW-16 (mg/L)



Trend Regression: Piecewise Linear-Linear

Barium, MW-16 (mg/L)

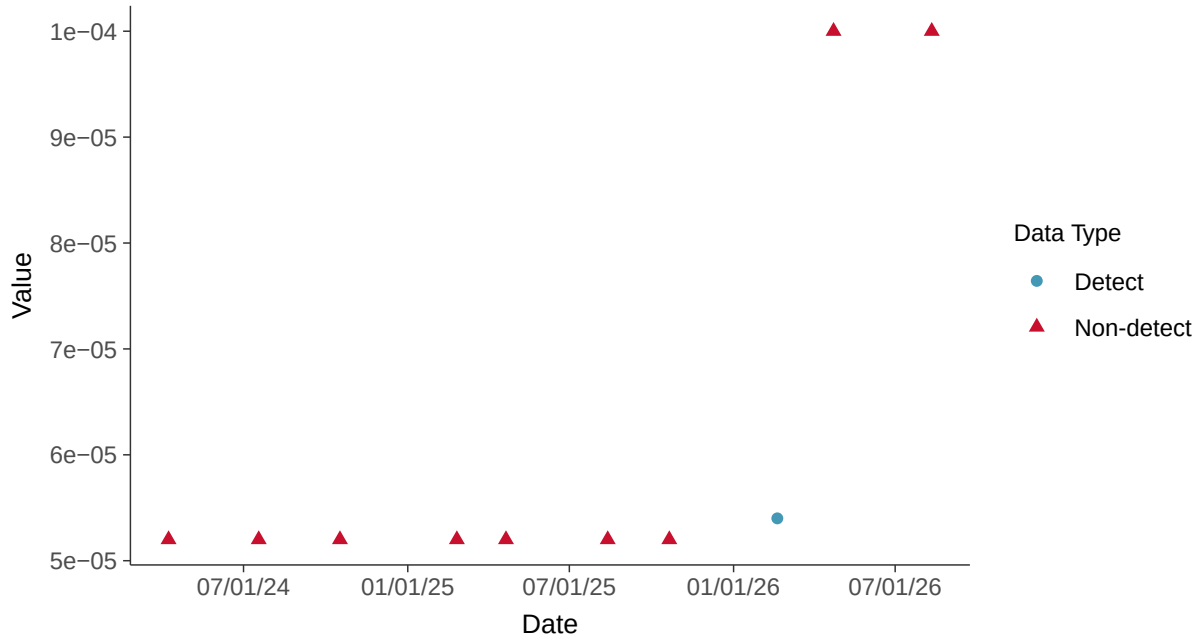


Appendix IV: Beryllium, MW-16

ID: 26_1_4_104

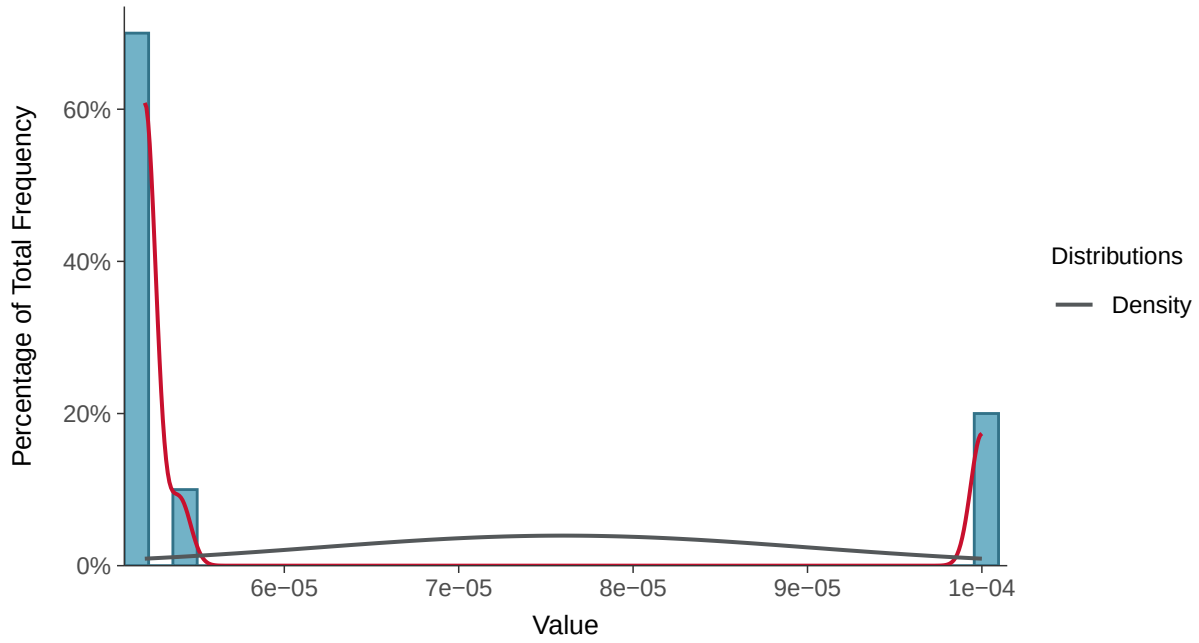
Scatter Plot

Beryllium, MW-16 (mg/L)



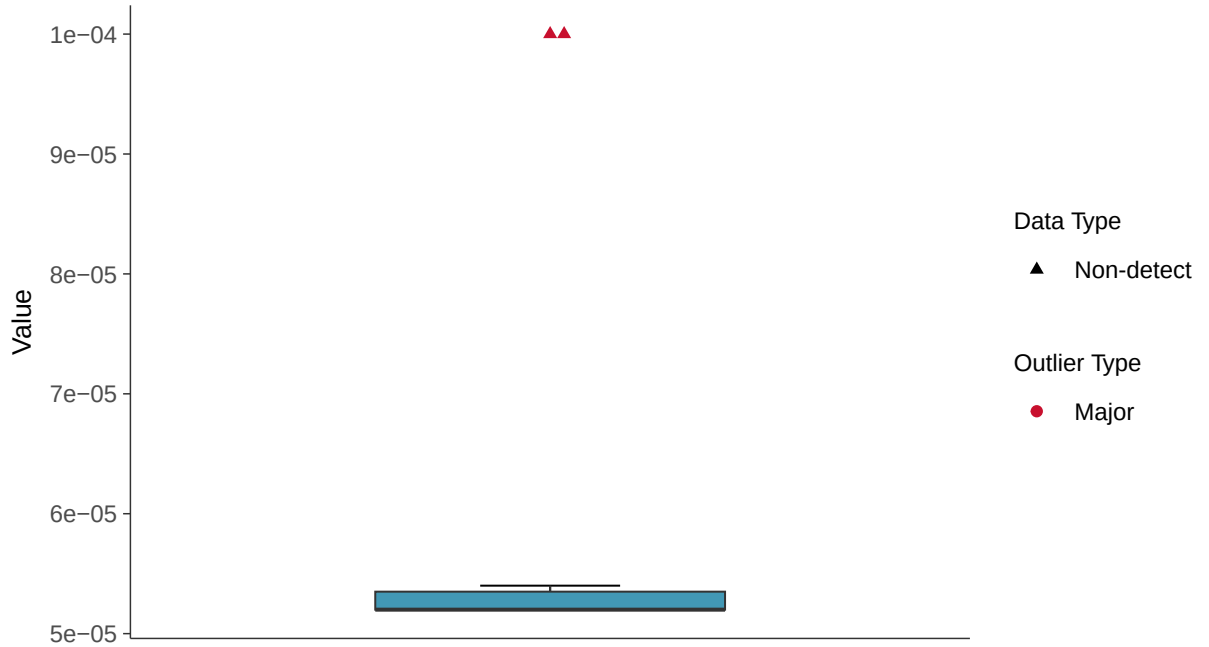
Histogram

Beryllium, MW-16 (mg/L)



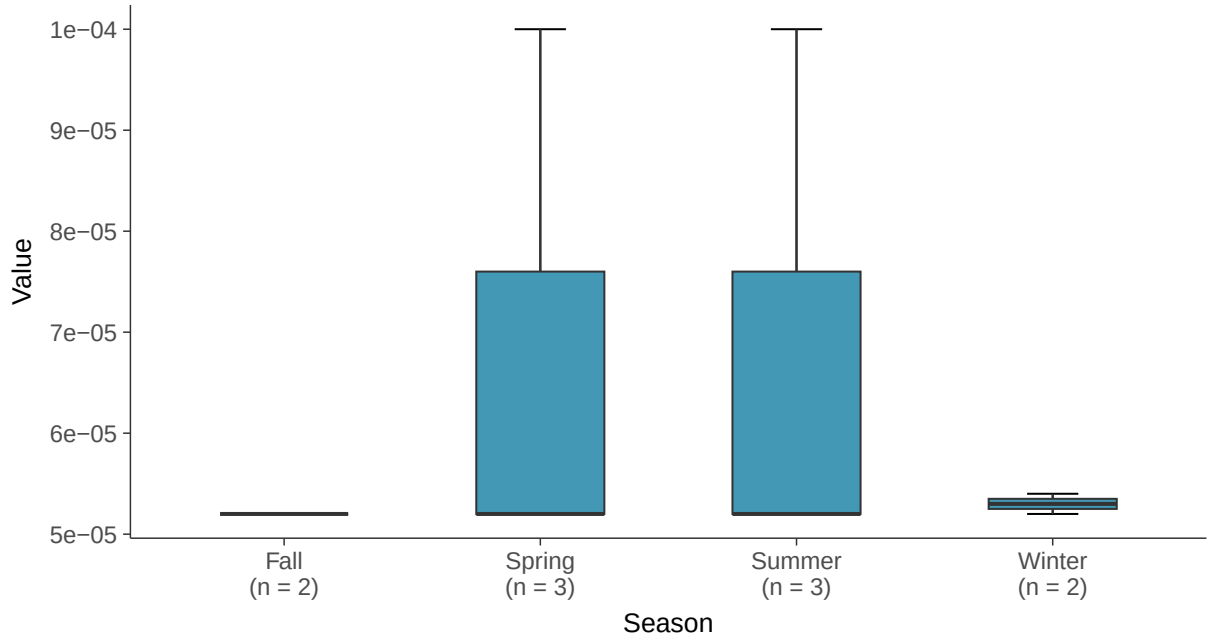
Boxplot

Beryllium, MW-16 (mg/L)



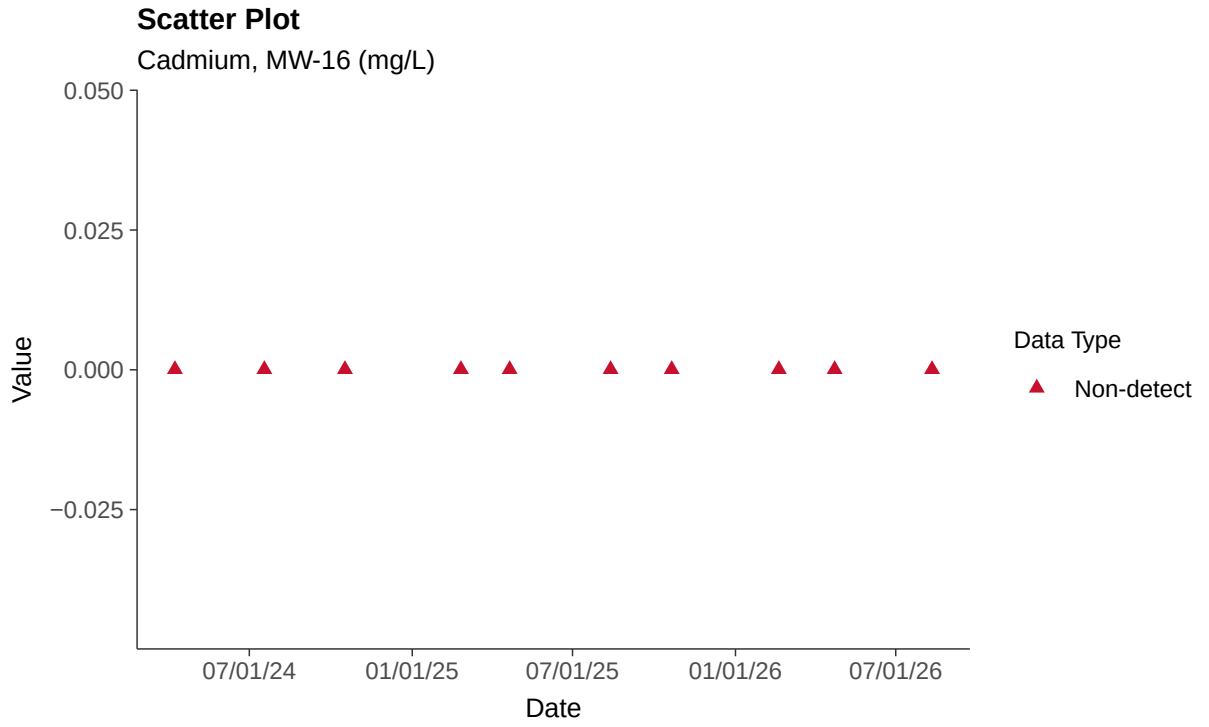
Boxplot by Season

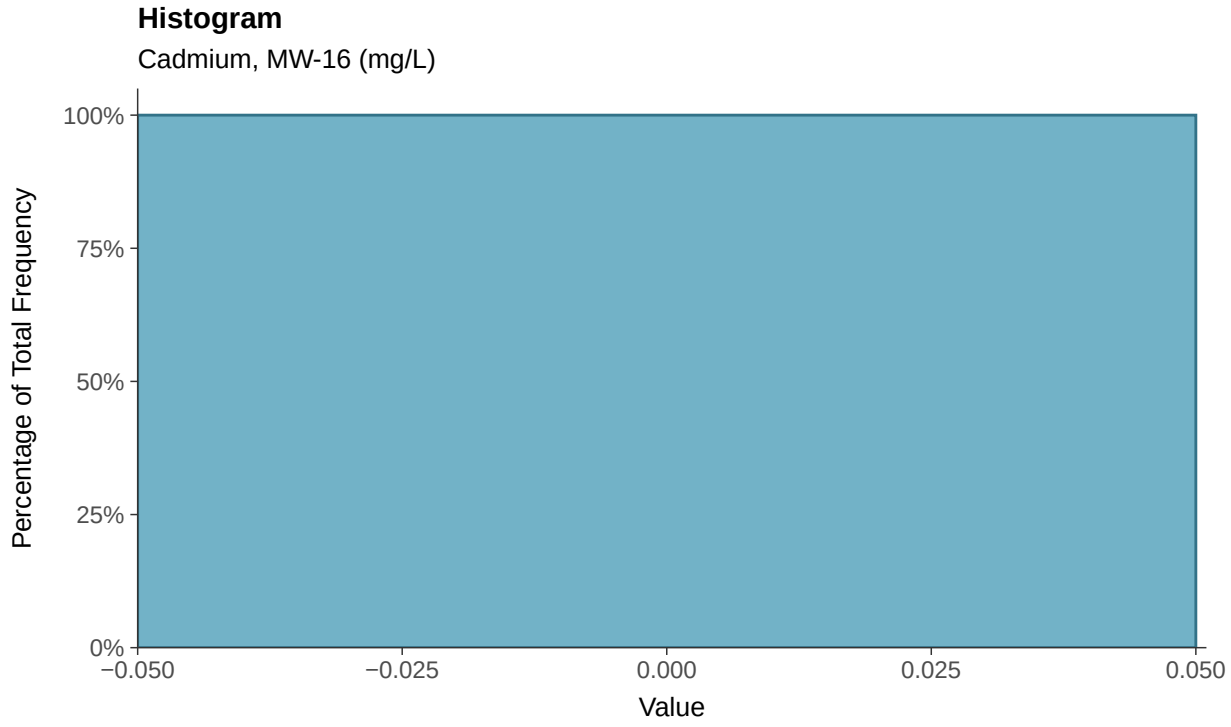
Beryllium, MW-16 (mg/L)



Appendix IV: Cadmium, MW-16

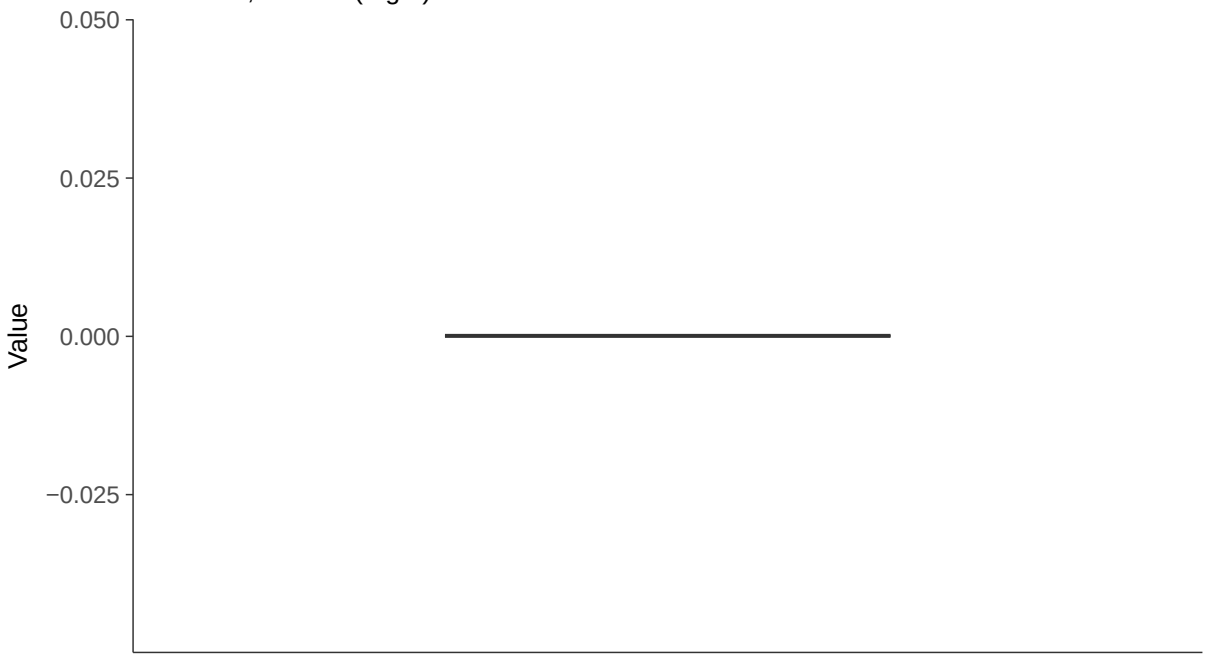
ID: 26_1_4_106





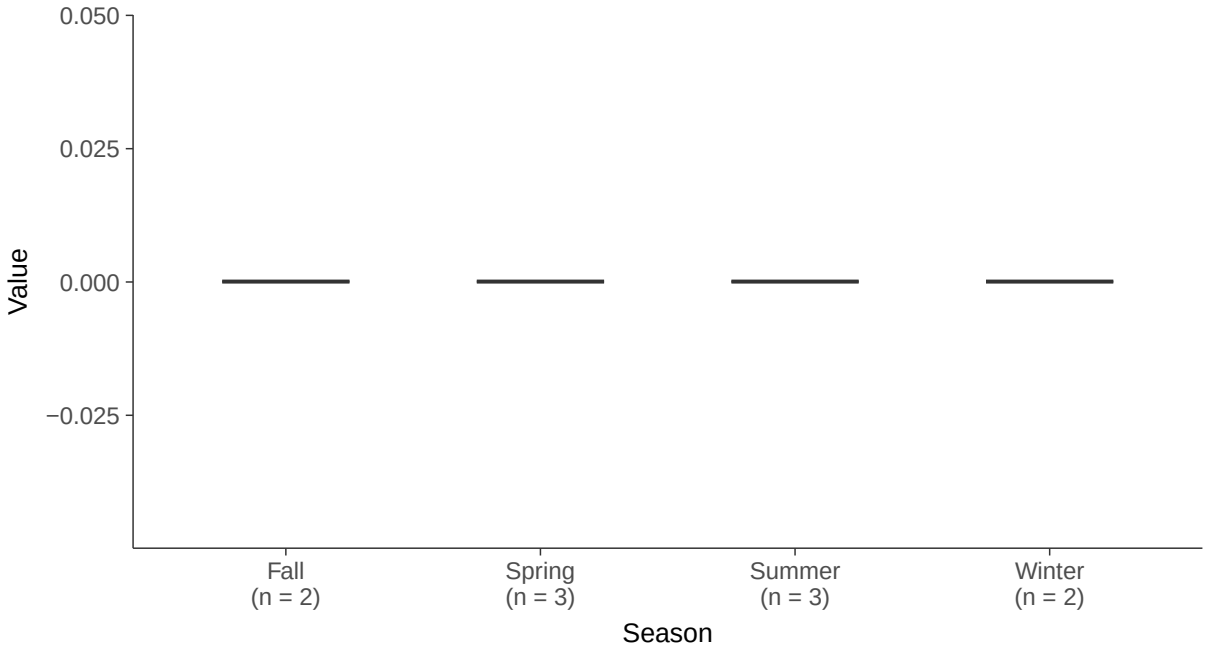
Boxplot

Cadmium, MW-16 (mg/L)



Boxplot by Season

Cadmium, MW-16 (mg/L)

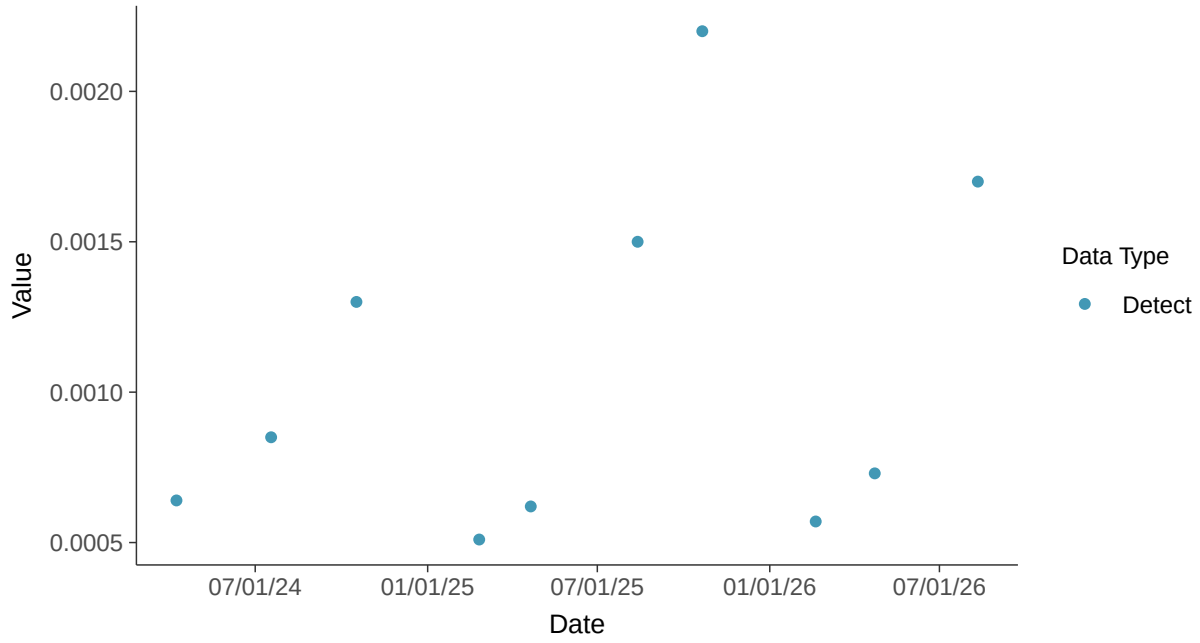


Appendix IV: Chromium, Total, MW-16

ID: 26_1_4_109

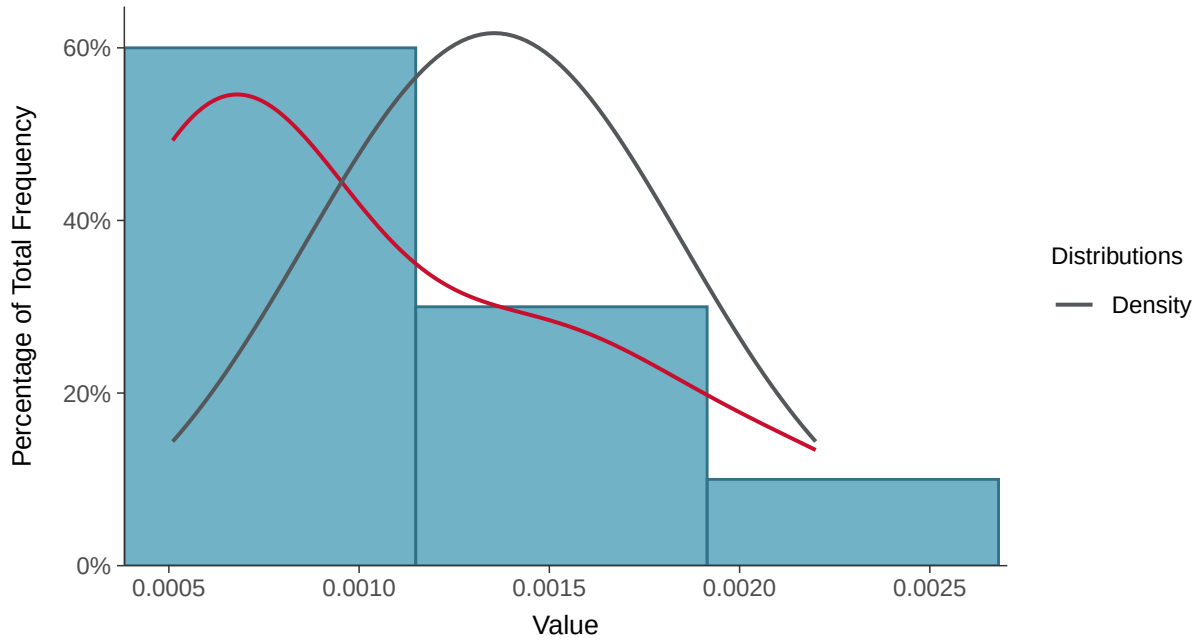
Scatter Plot

Chromium, Total, MW-16 (mg/L)



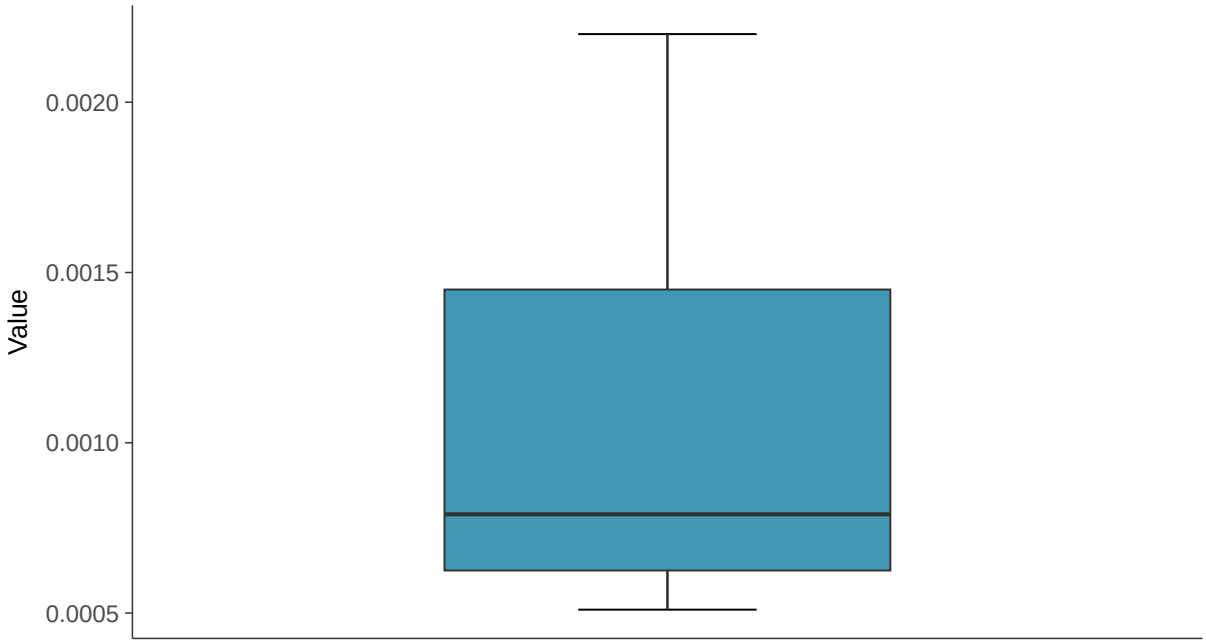
Histogram

Chromium, Total, MW-16 (mg/L)



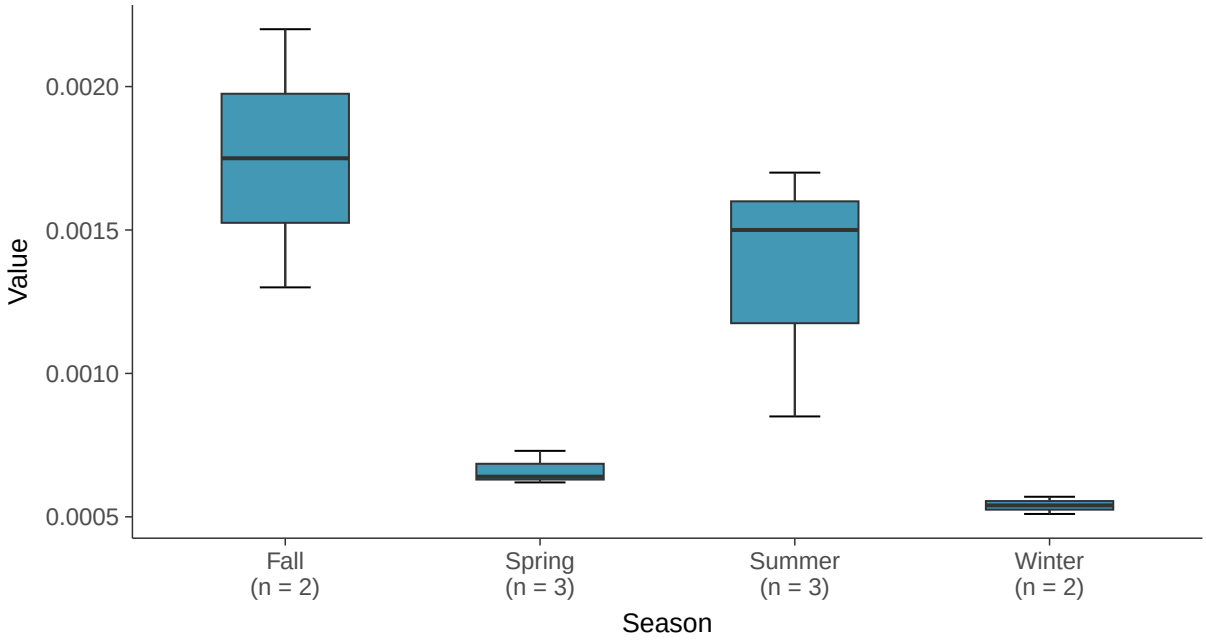
Boxplot

Chromium, Total, MW-16 (mg/L)



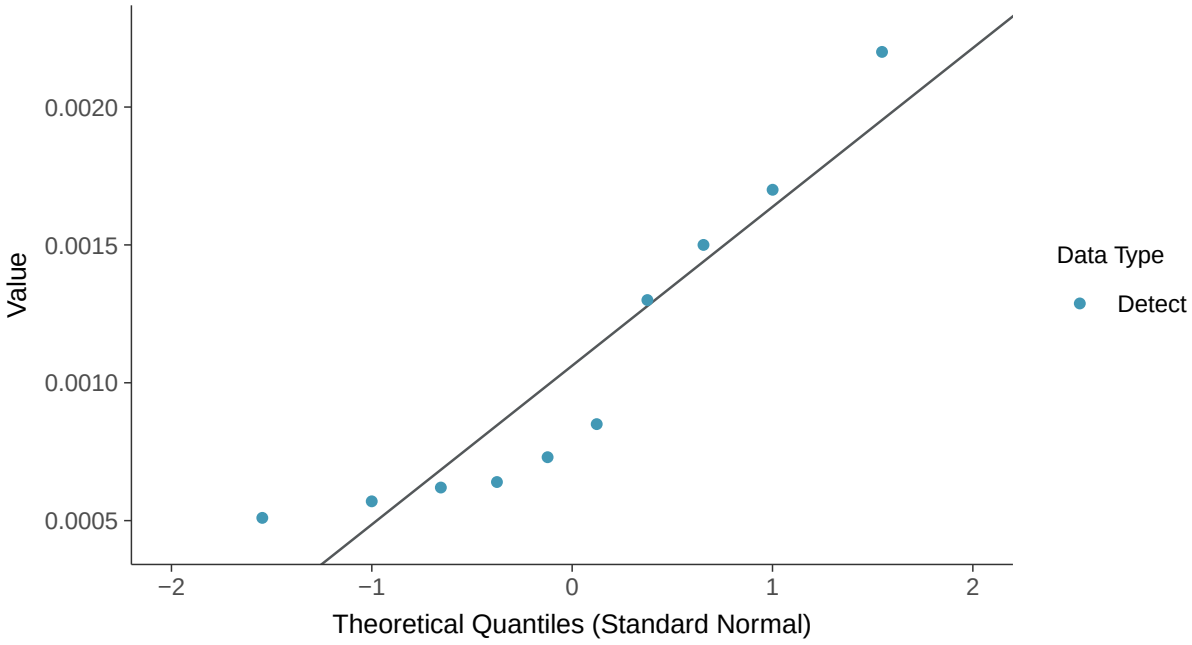
Boxplot by Season

Chromium, Total, MW-16 (mg/L)



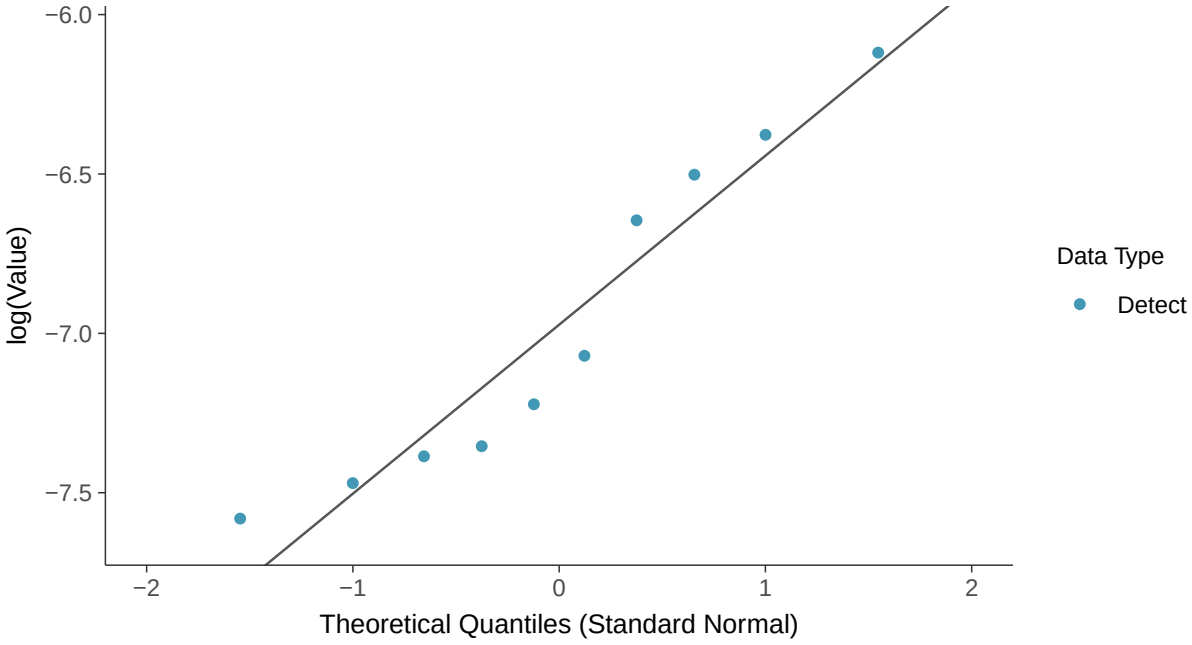
Normal Q-Q plot

Chromium, Total, MW-16 (mg/L)



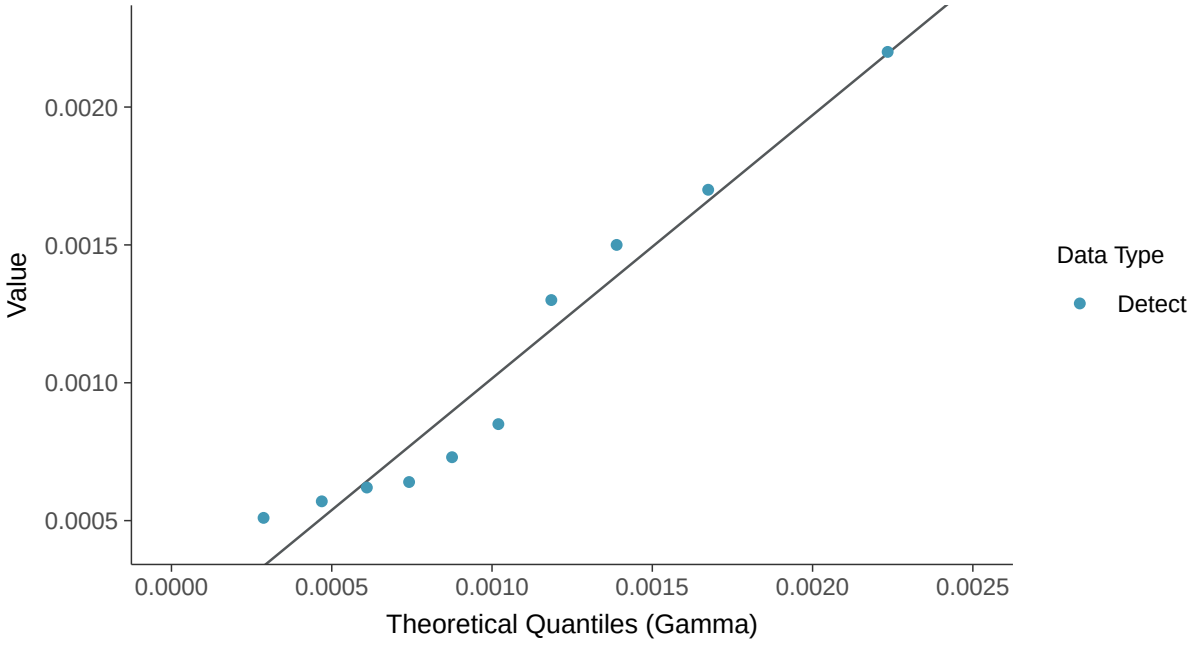
Lognormal Q-Q plot

Chromium, Total, MW-16 (mg/L)



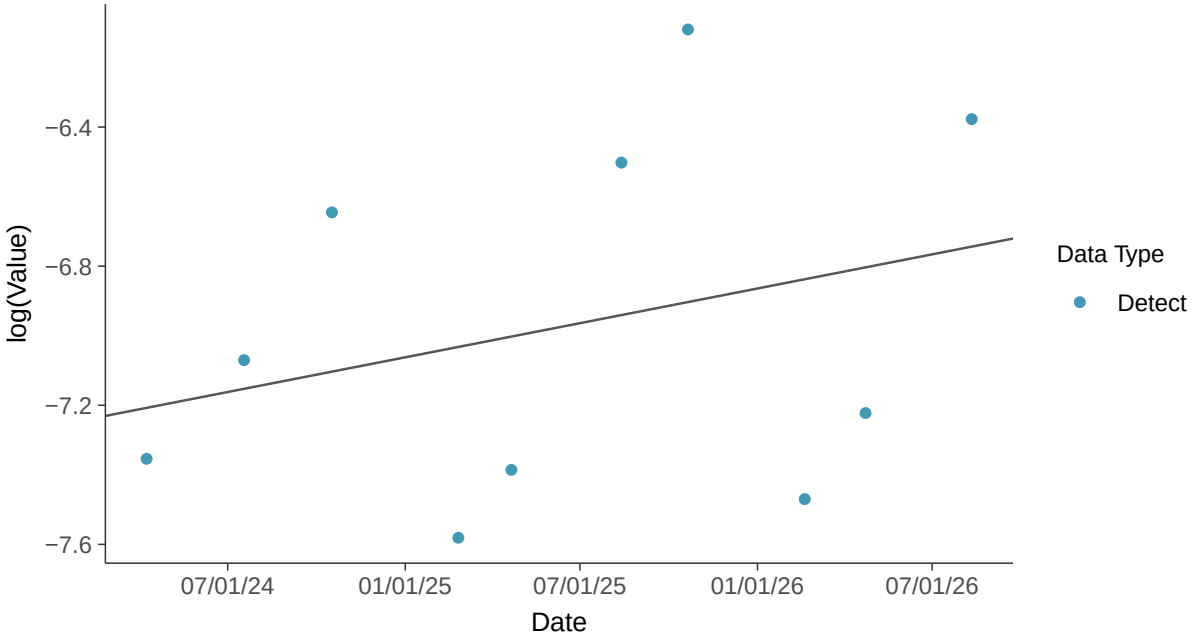
Gamma Q-Q plot

Chromium, Total, MW-16 (mg/L)



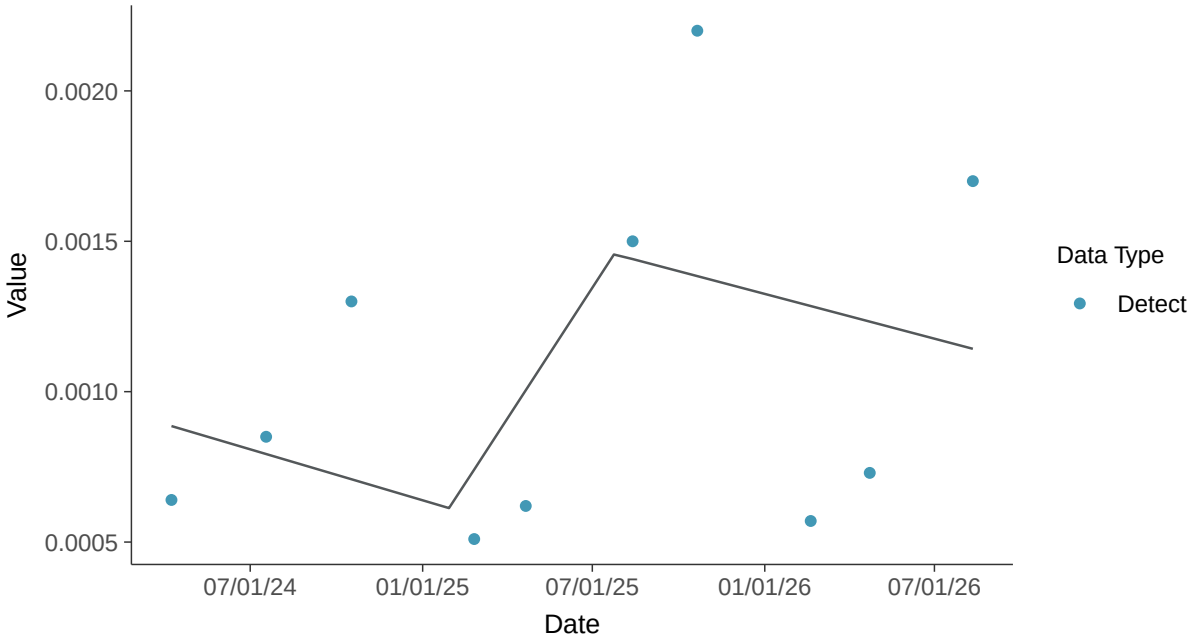
Trend Regression: Lognormal MLE

Chromium, Total, MW-16 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Chromium, Total, MW-16 (mg/L)

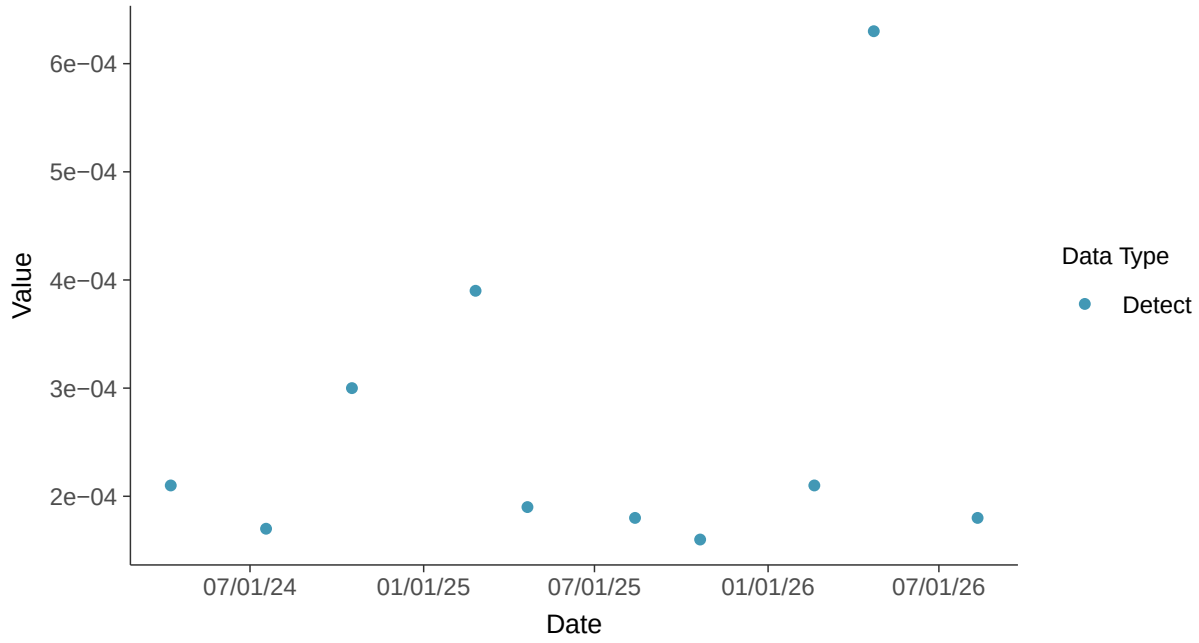


Appendix IV: Cobalt, MW-16

ID: 26_1_4_110

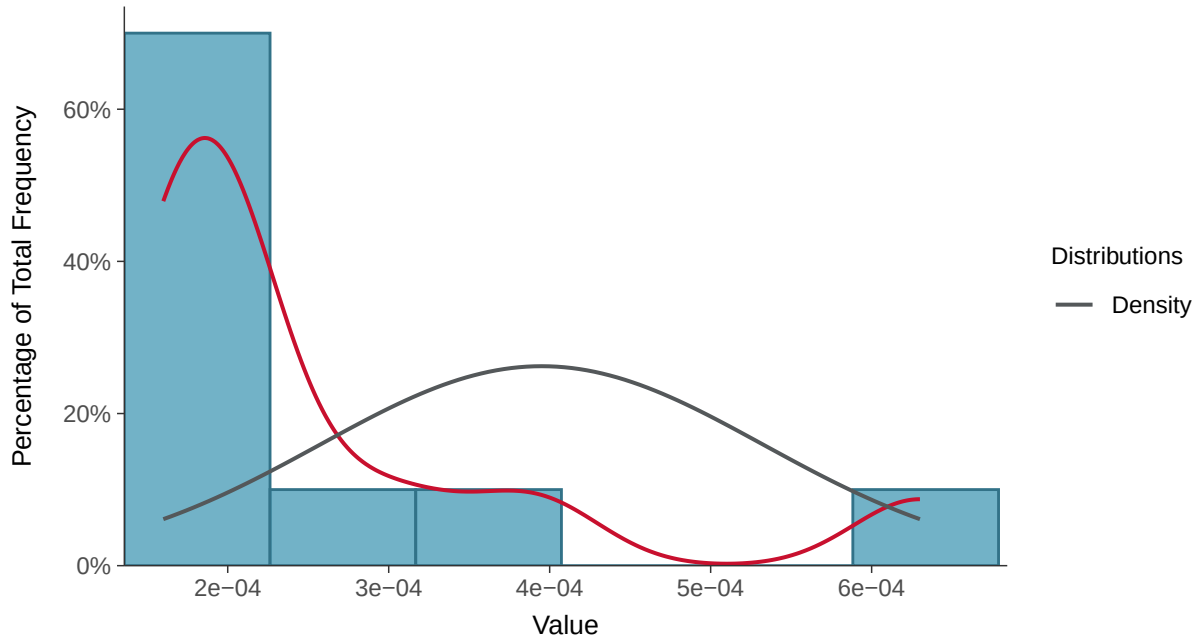
Scatter Plot

Cobalt, MW-16 (mg/L)



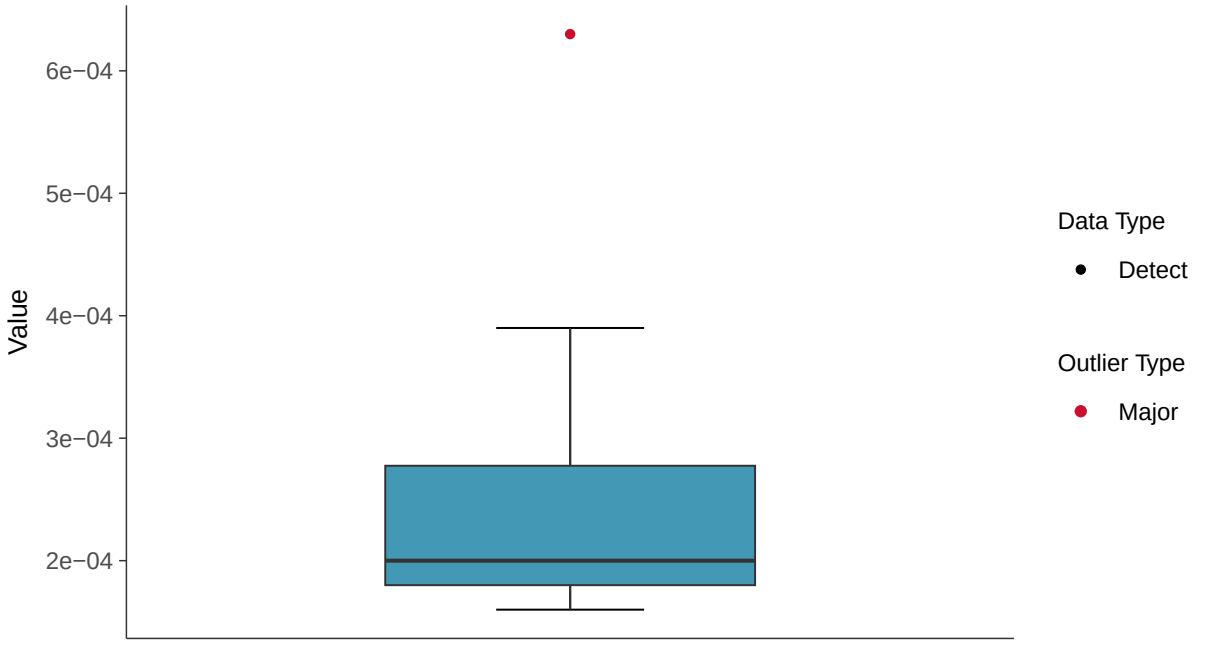
Histogram

Cobalt, MW-16 (mg/L)



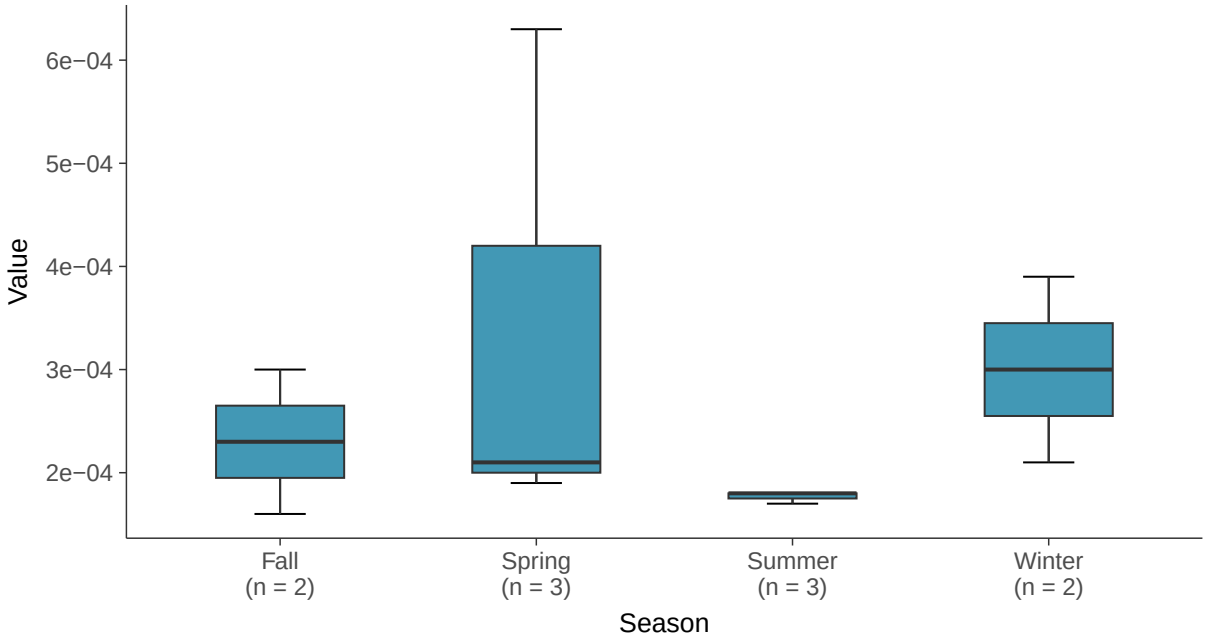
Boxplot

Cobalt, MW-16 (mg/L)



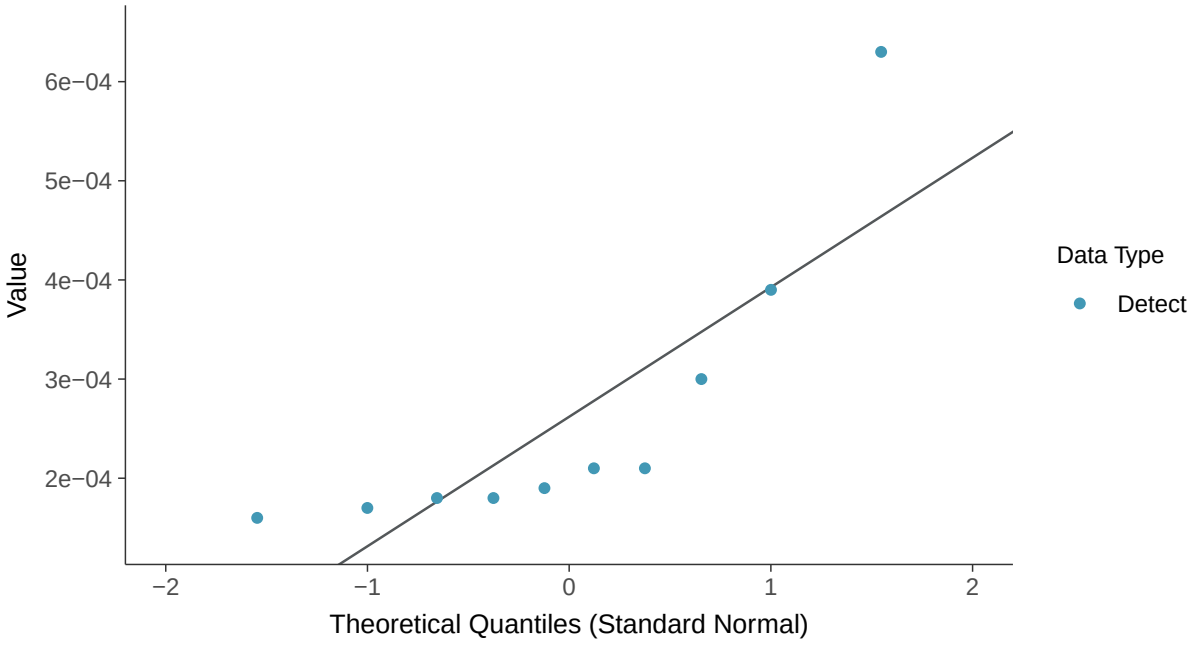
Boxplot by Season

Cobalt, MW-16 (mg/L)



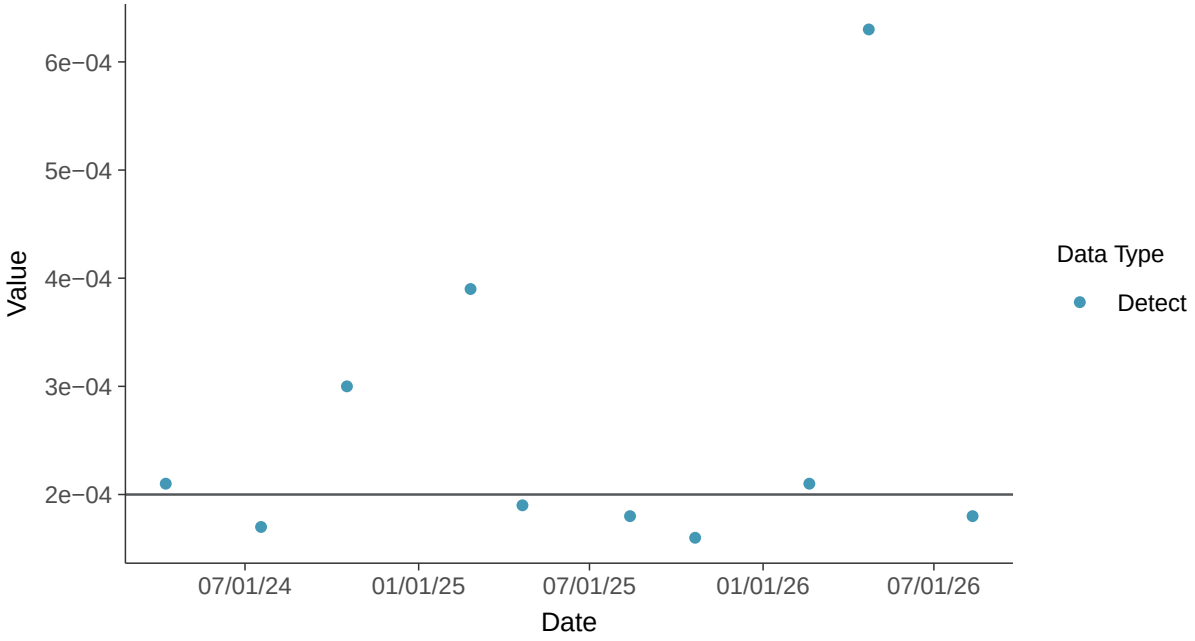
Normal Q-Q plot

Cobalt, MW-16 (mg/L)



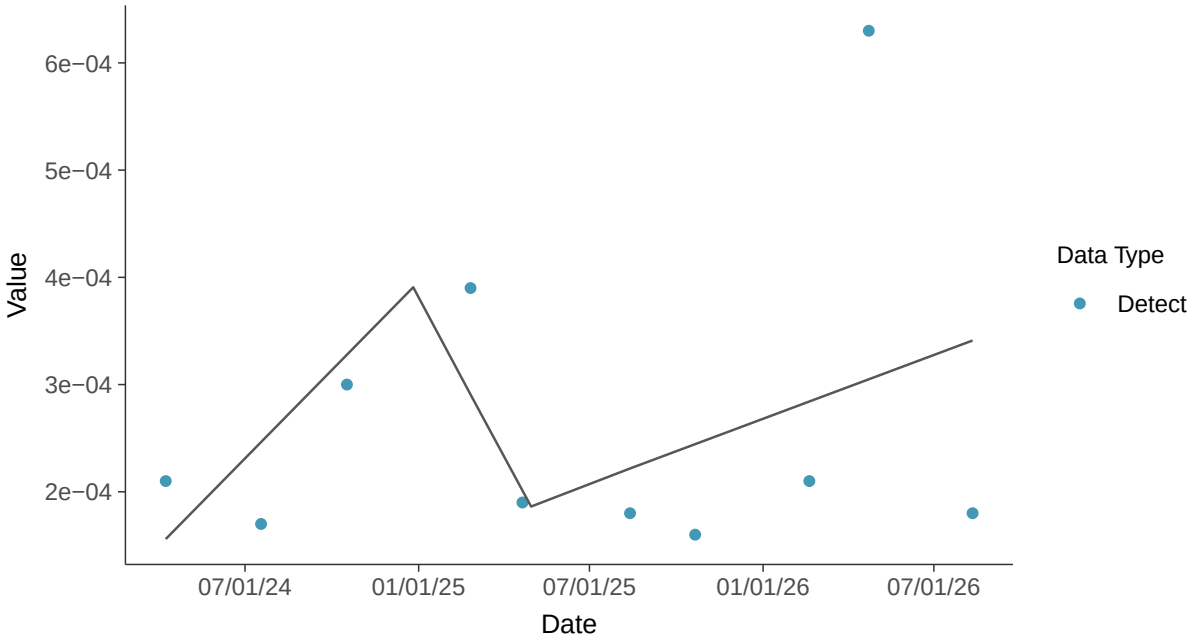
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Cobalt, MW-16 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Cobalt, MW-16 (mg/L)

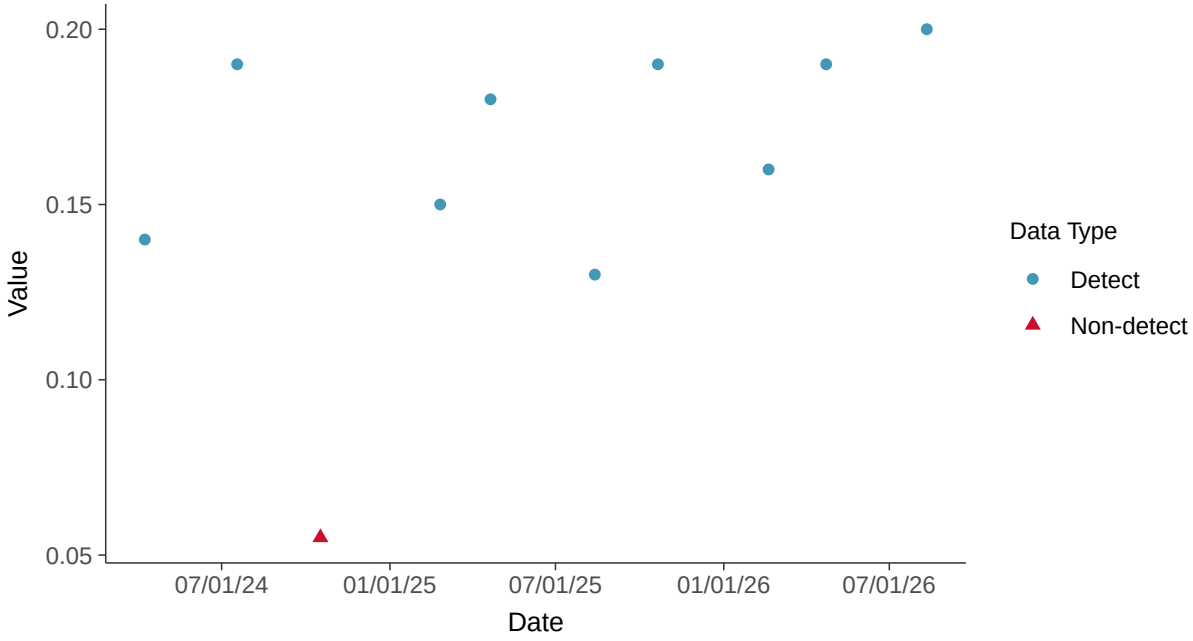


Appendix IV: Fluoride (App IV), MW-16

ID: 26_1_4_113

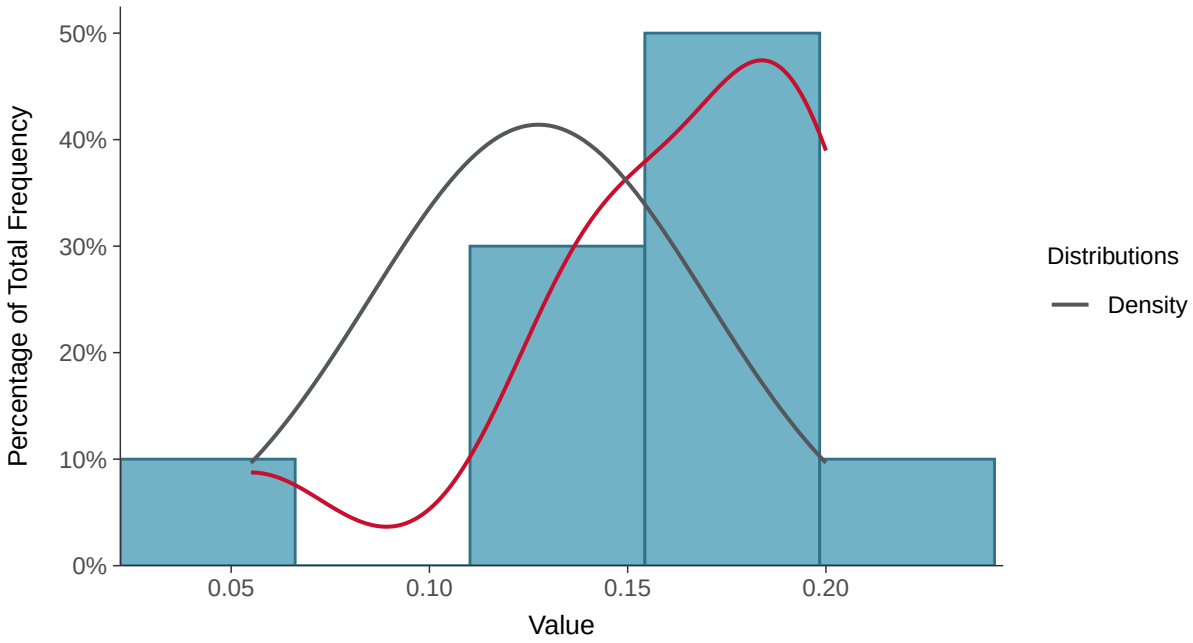
Scatter Plot

Fluoride (App IV), MW-16 (mg/L)



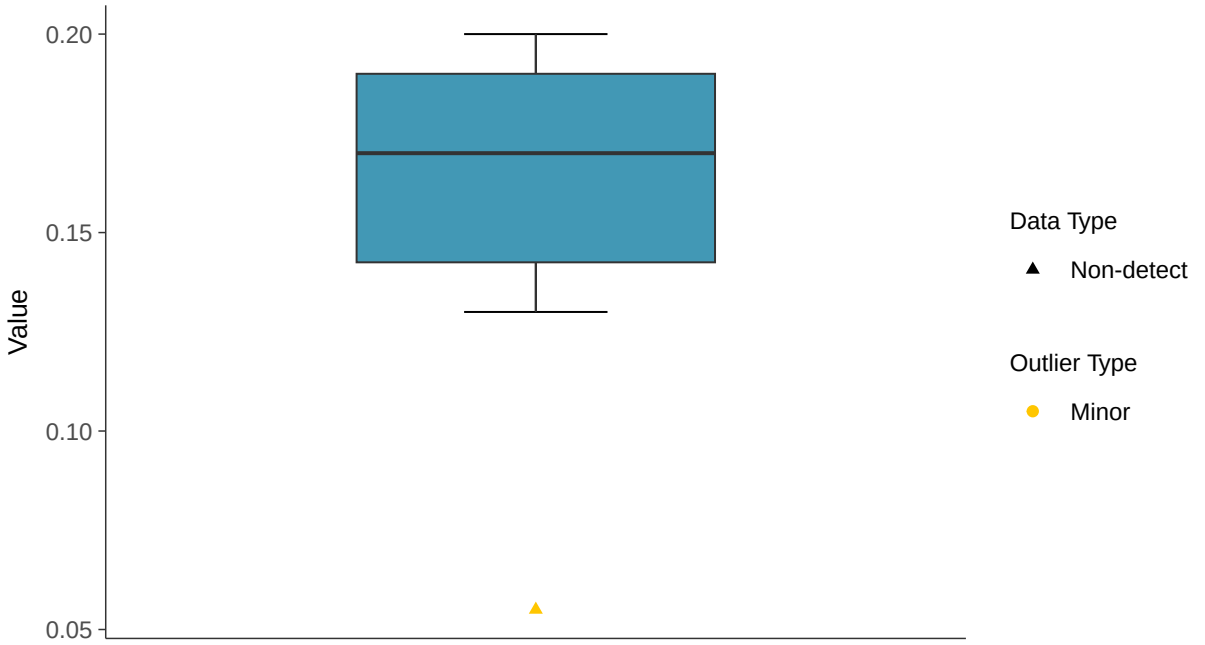
Histogram

Fluoride (App IV), MW-16 (mg/L)



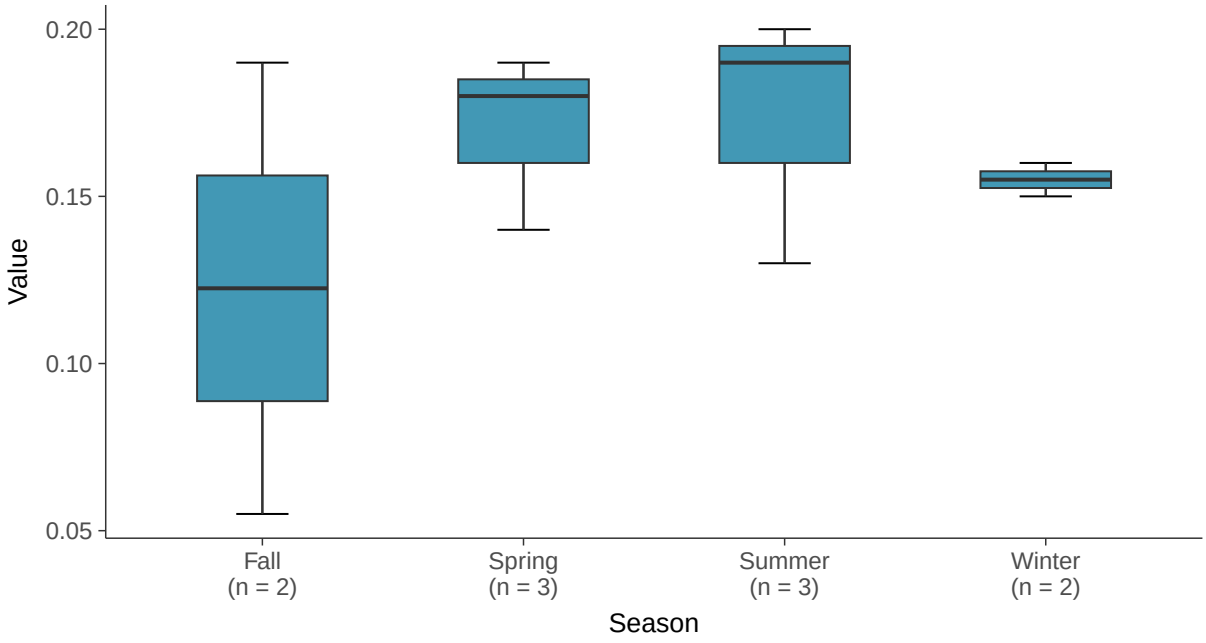
Boxplot

Fluoride (App IV), MW-16 (mg/L)



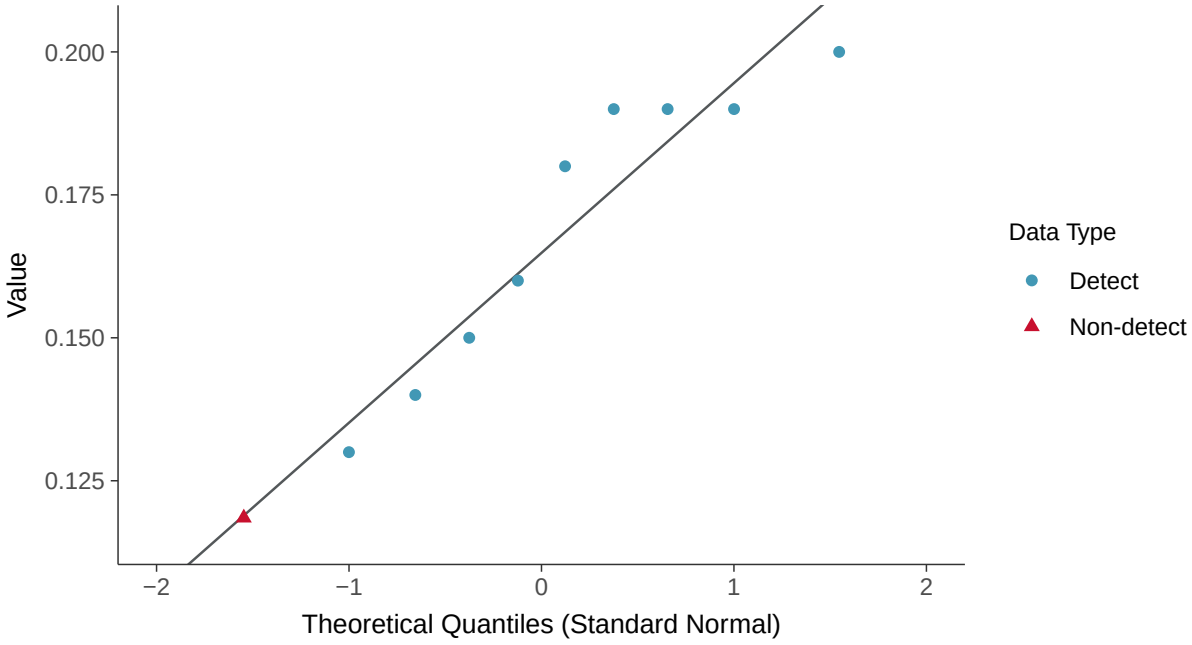
Boxplot by Season

Fluoride (App IV), MW-16 (mg/L)



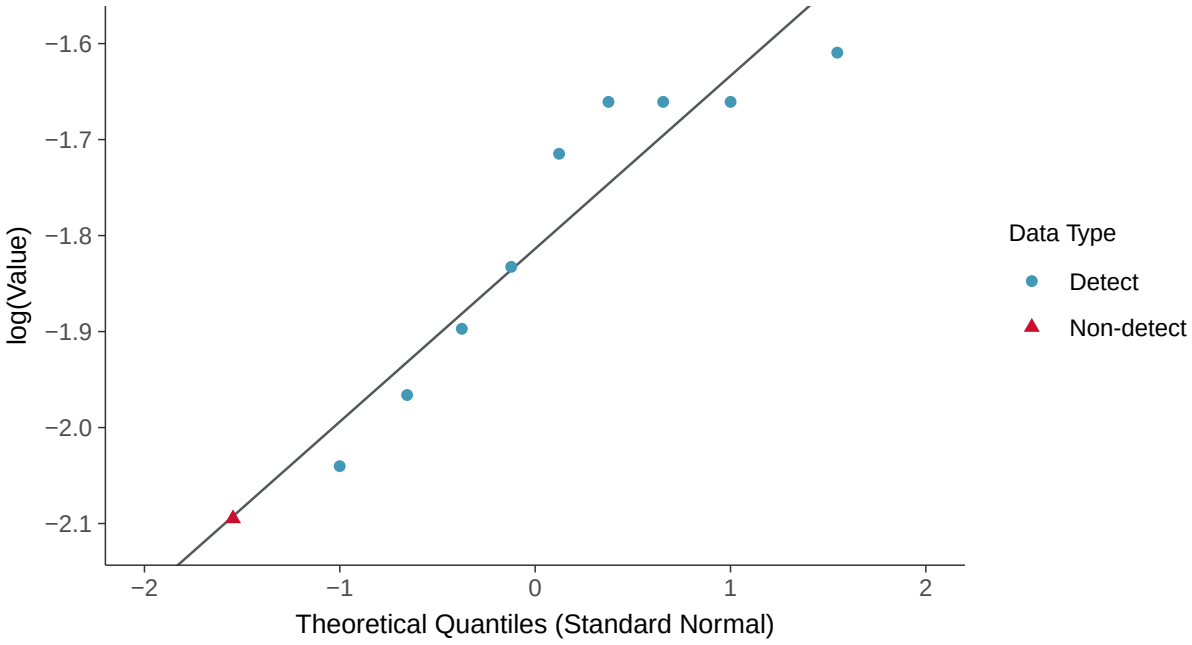
Normal Q-Q plot using ROS Imputed Estimates

Fluoride (App IV), MW-16 (mg/L)



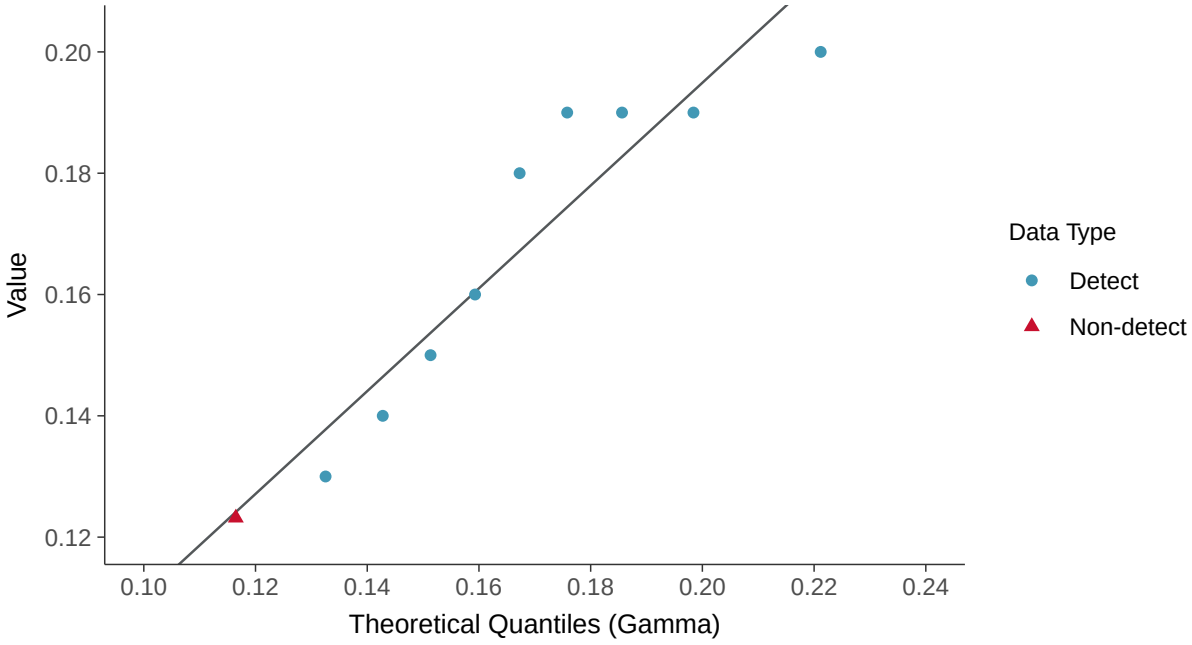
Lognormal Q-Q plot using ROS Imputed Estimates

Fluoride (App IV), MW-16 (mg/L)



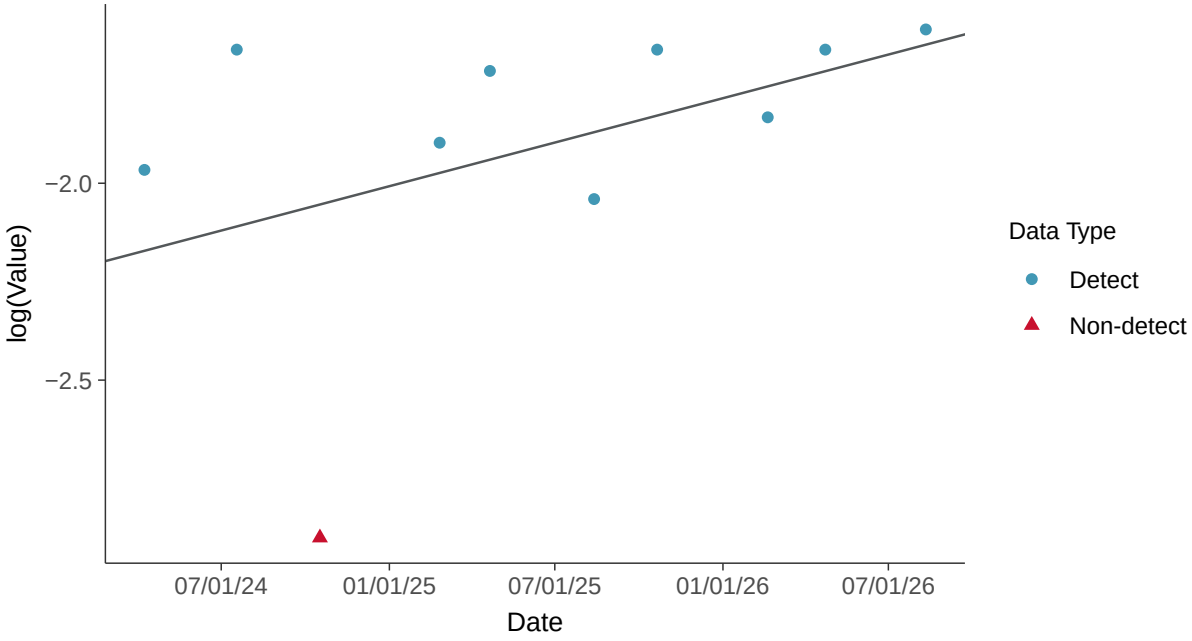
Gamma Q-Q plot using ROS Imputed Estimates

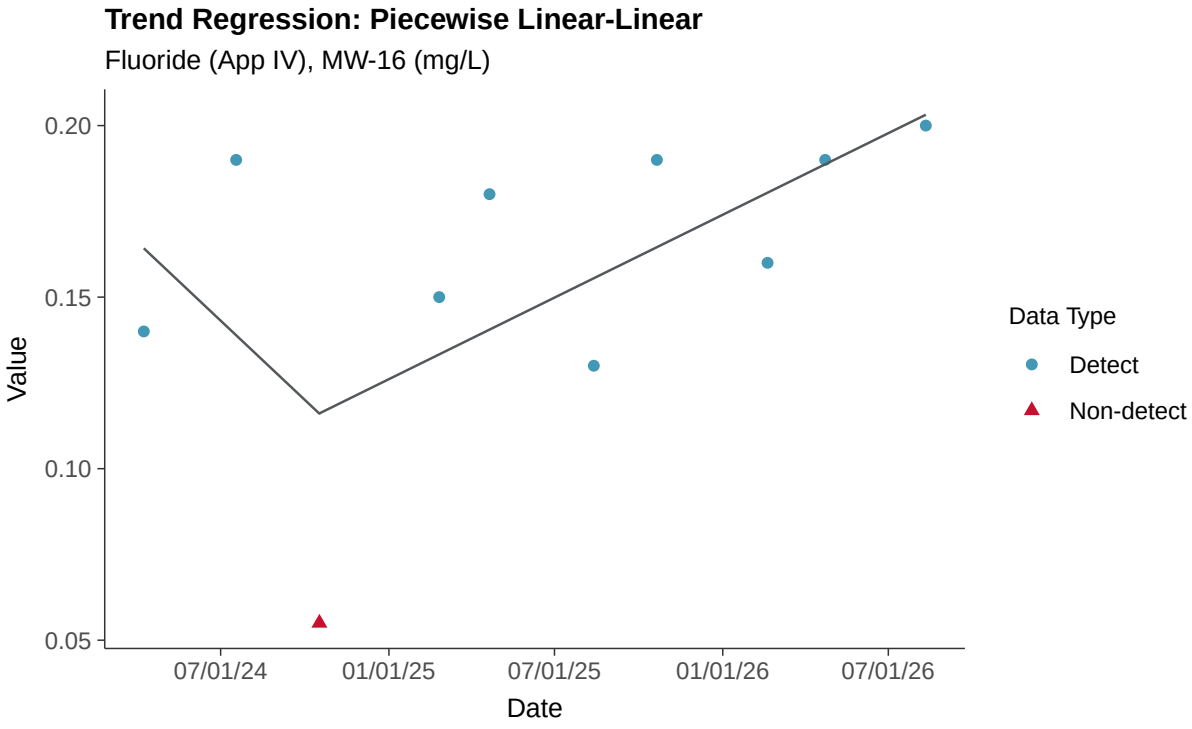
Fluoride (App IV), MW-16 (mg/L)



Trend Regression: Lognormal MLE

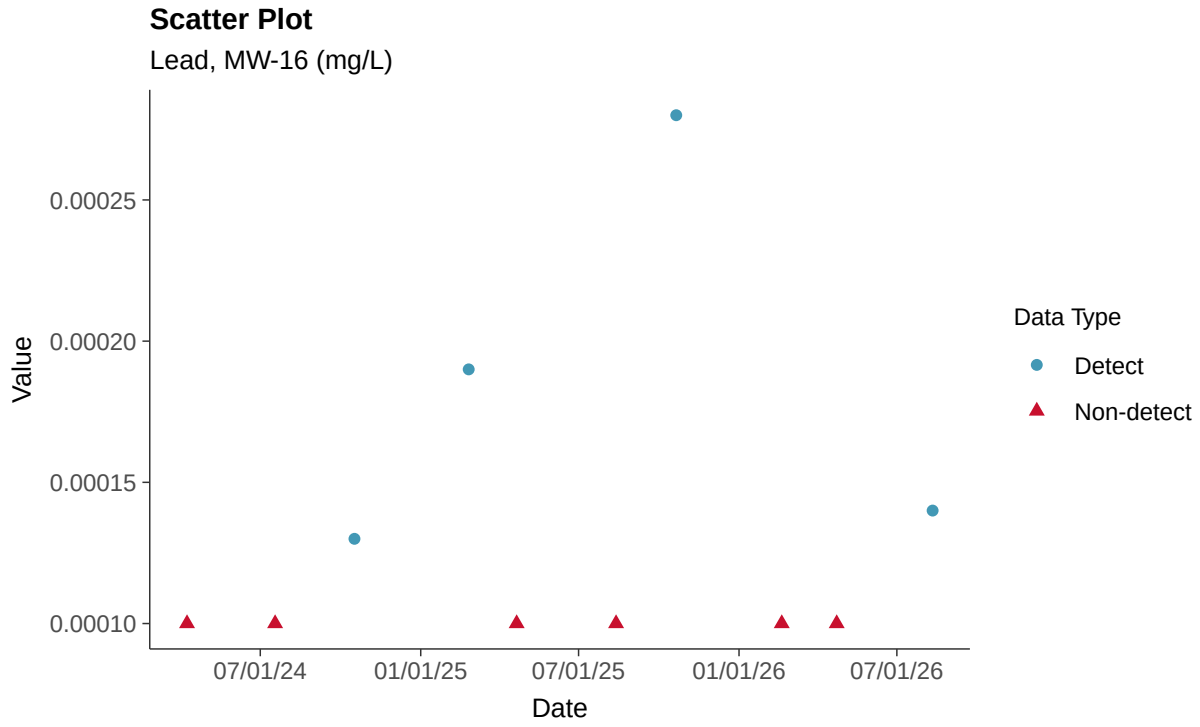
Fluoride (App IV), MW-16 (mg/L)

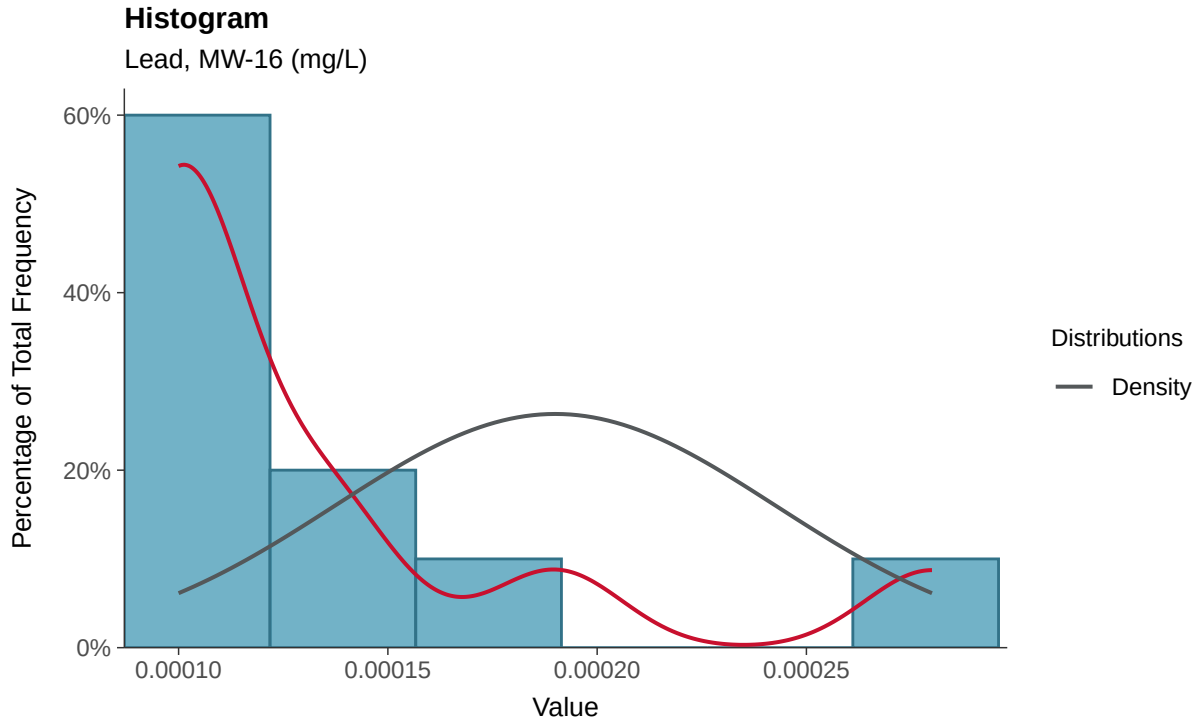



Trend Regression: Piecewise Linear-Linear
Fluoride (App IV), MW-16 (mg/L)
0.20
0.15
0.10
0.05
Value
07/01/24
01/01/25
07/01/25
01/01/26
07/01/26
Date
Data Type
Detect
Non-detect

Appendix IV: Lead, MW-16

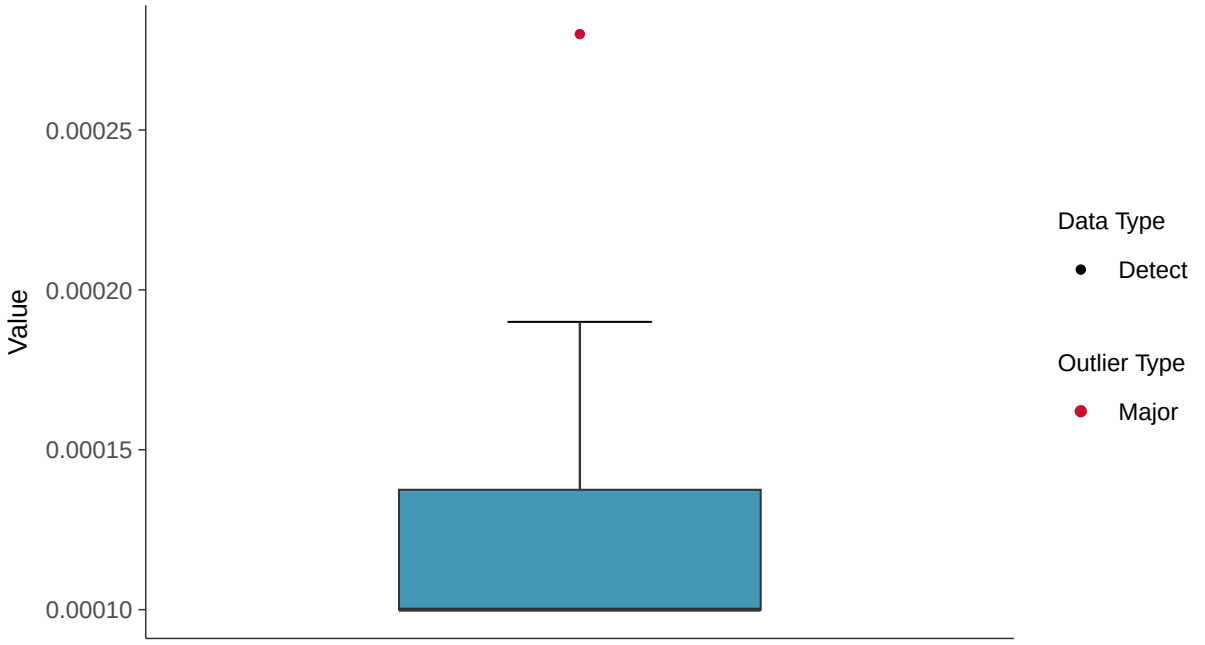
ID: 26_1_4_115





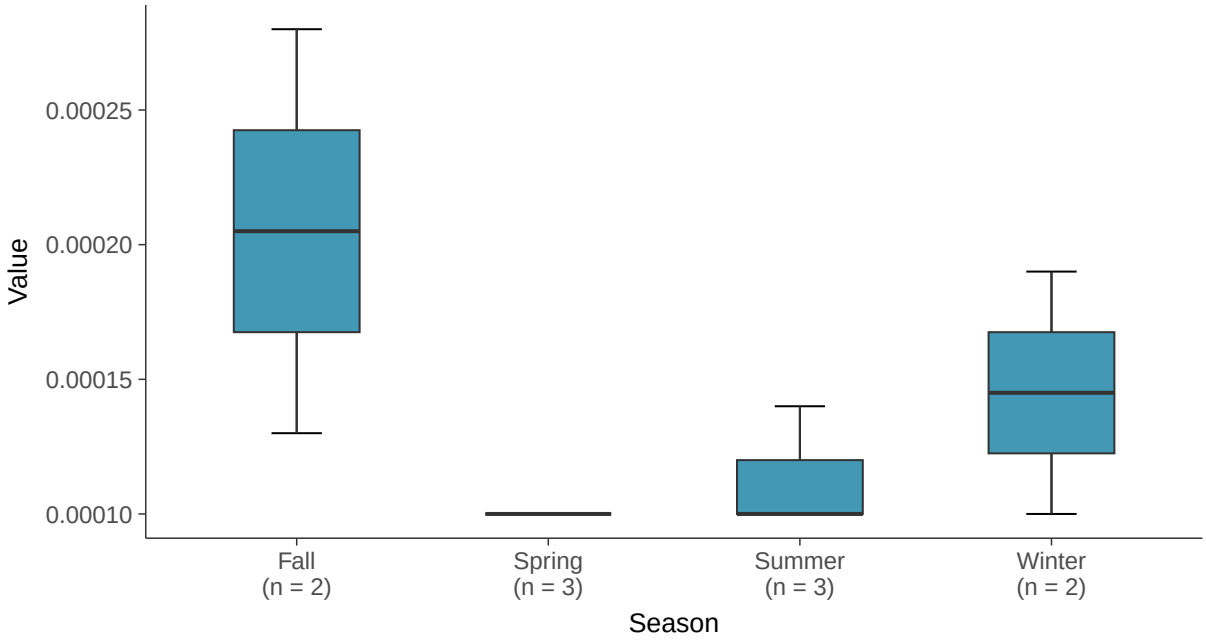
Boxplot

Lead, MW-16 (mg/L)



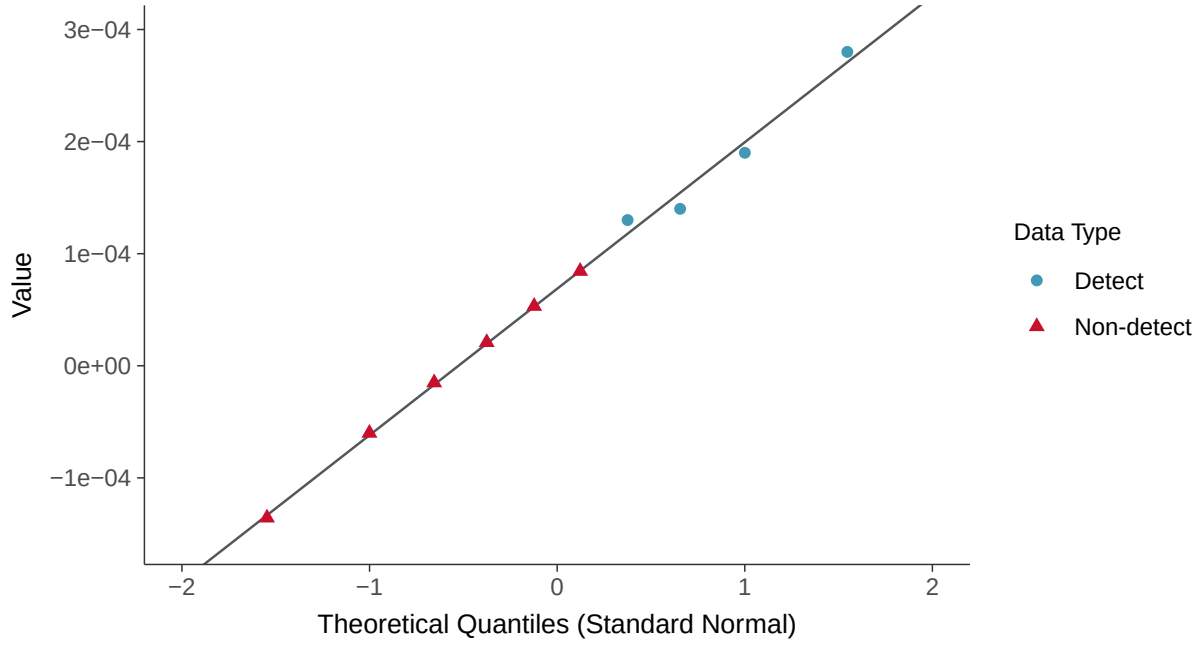
Boxplot by Season

Lead, MW-16 (mg/L)



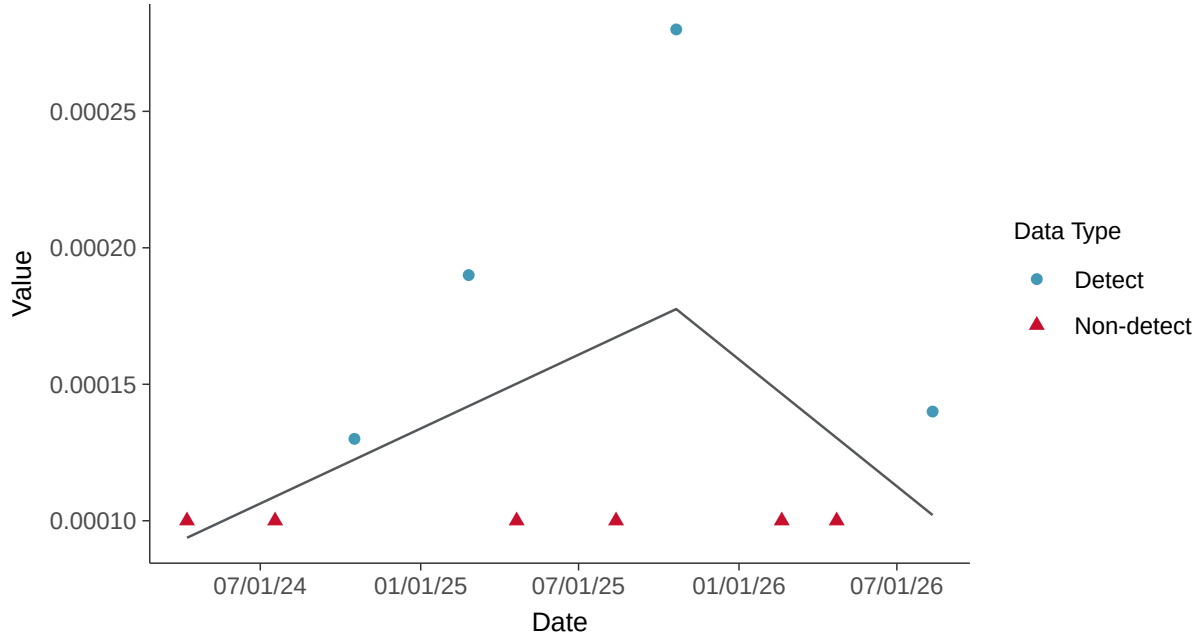
Normal Q-Q plot using ROS Imputed Estimates

Lead, MW-16 (mg/L)



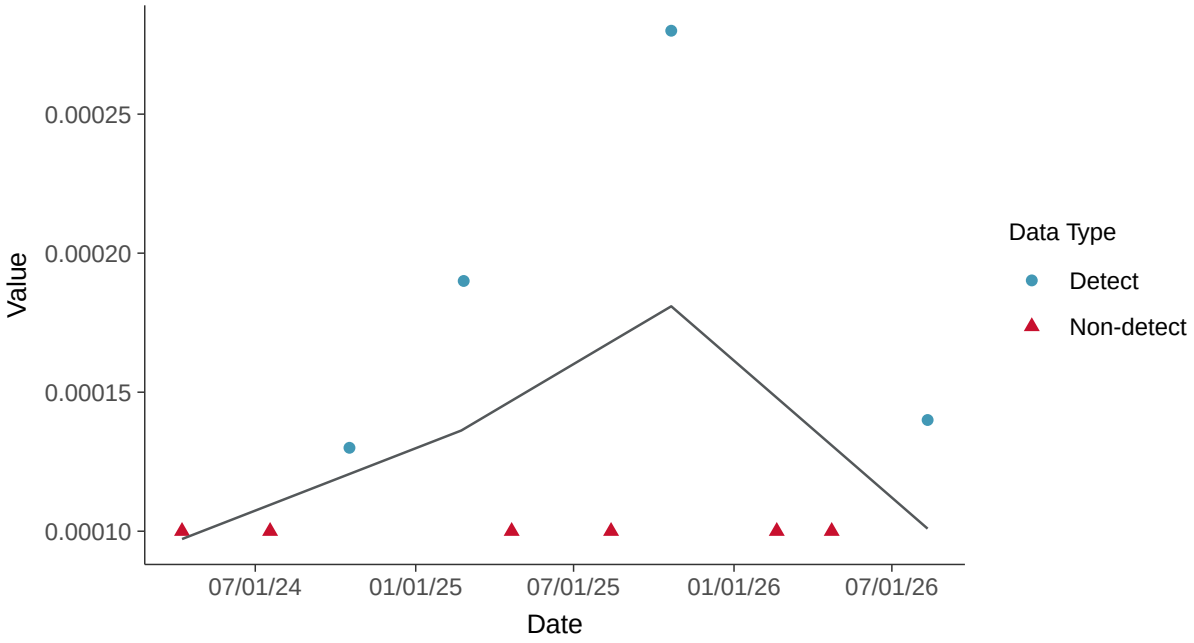
Trend Regression: Piecewise Linear-Linear

Lead, MW-16 (mg/L)



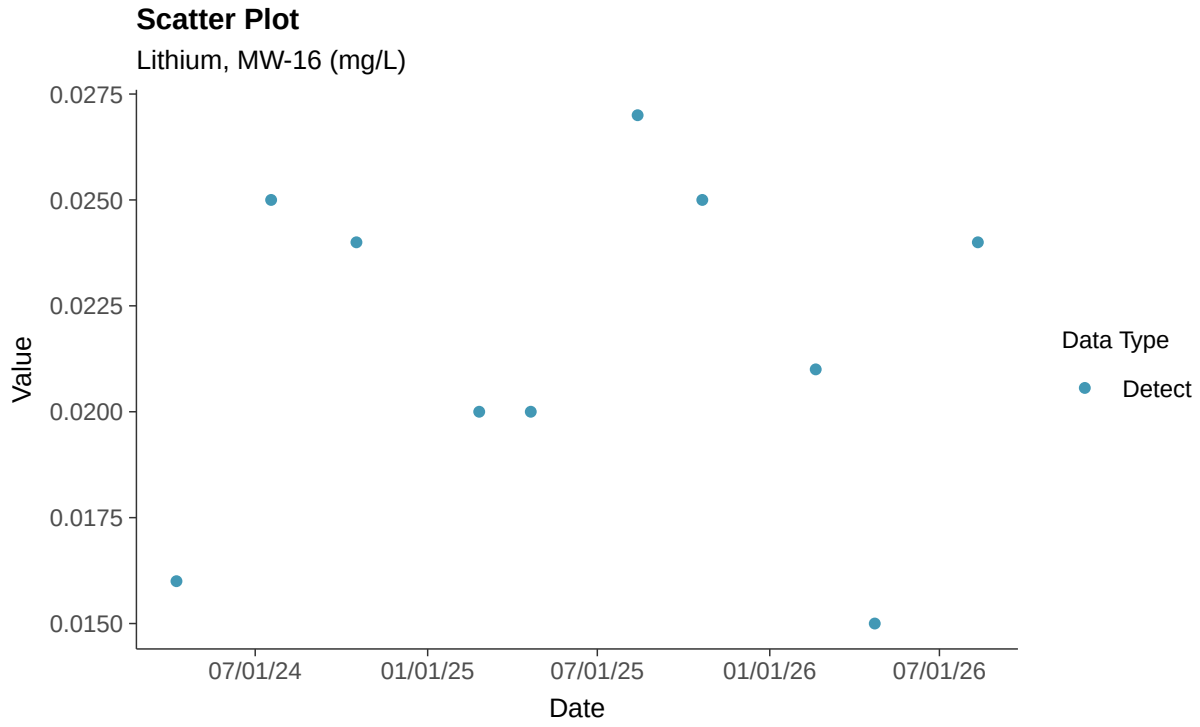
Trend Regression: Piecewise Linear-Linear-Linear

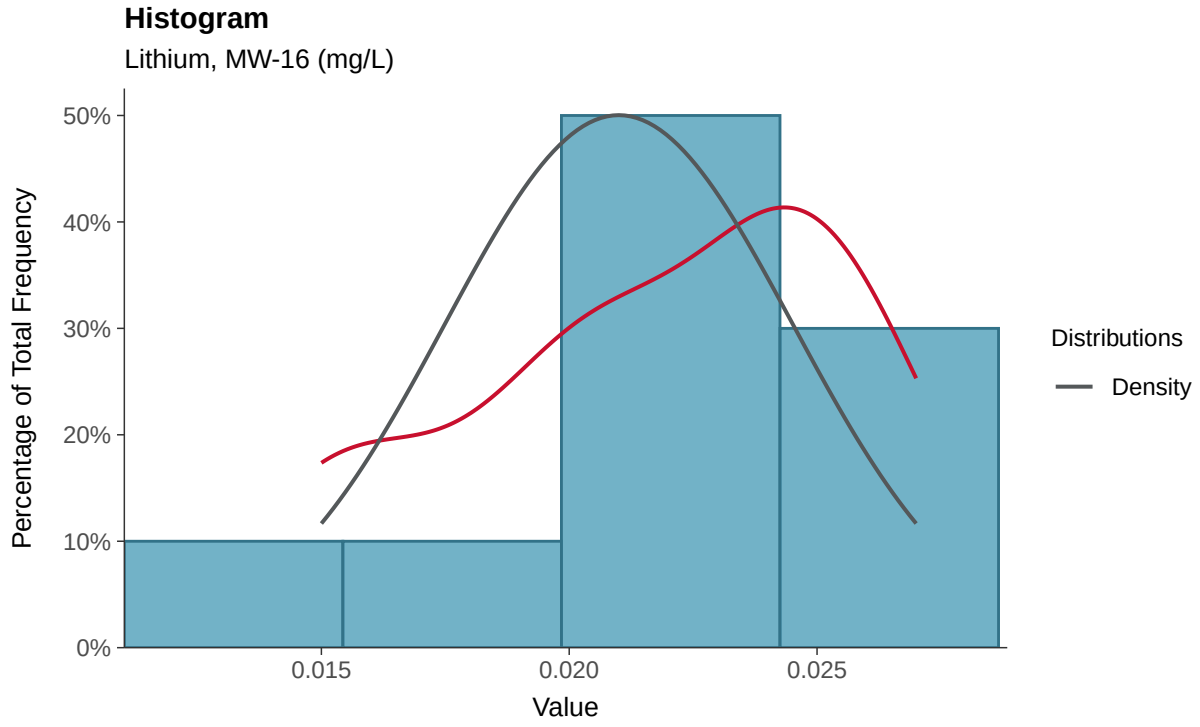
Lead, MW-16 (mg/L)



Appendix IV: Lithium, MW-16

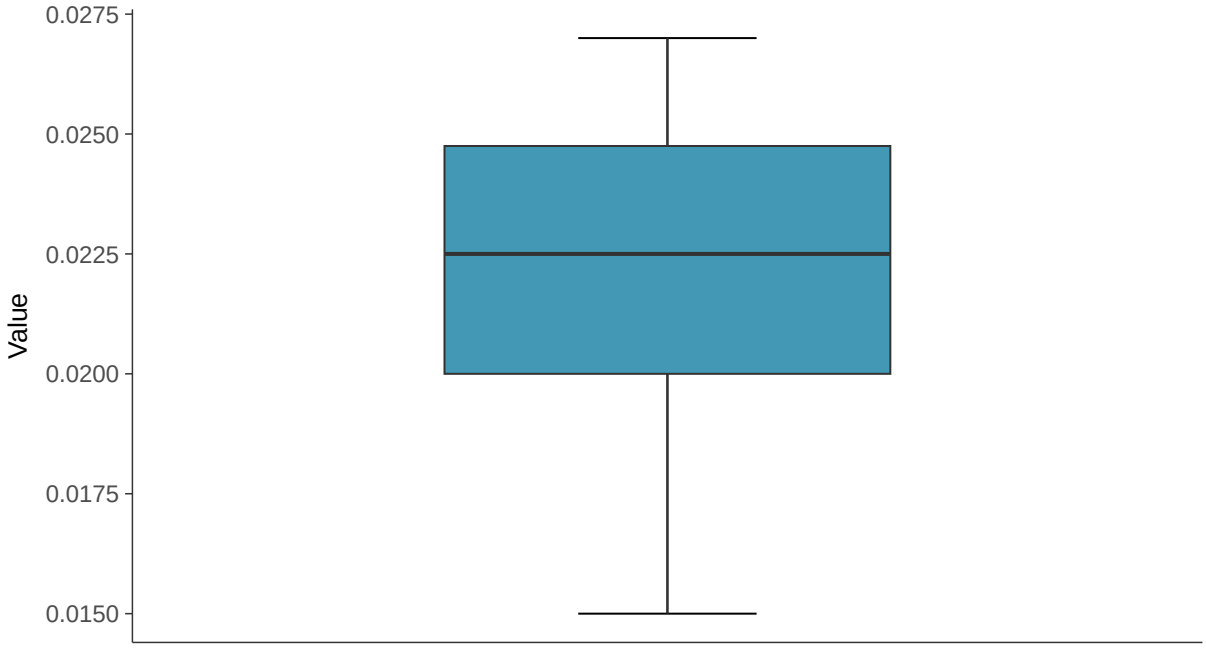
ID: 26_1_4_116





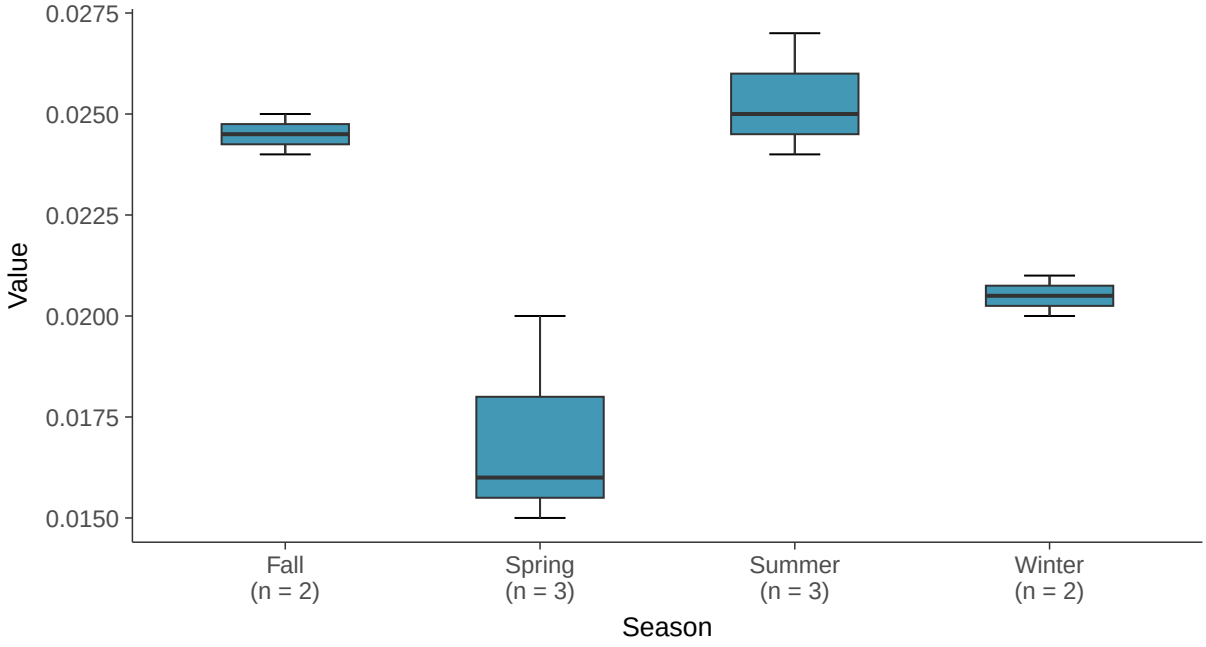
Boxplot

Lithium, MW-16 (mg/L)



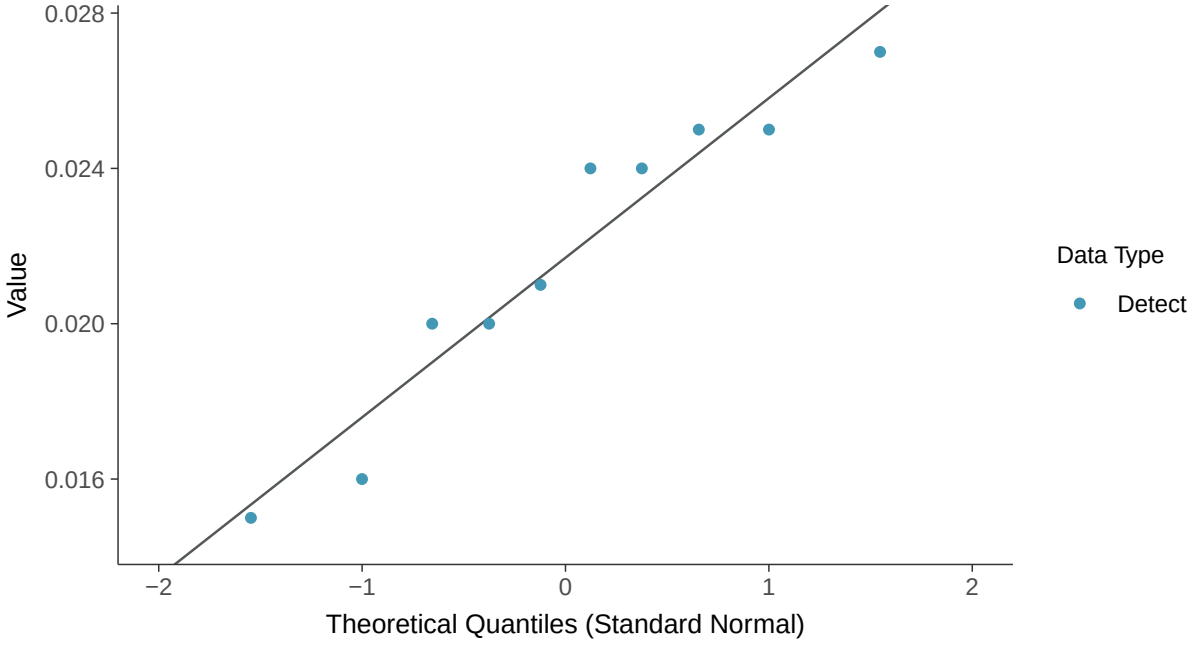
Boxplot by Season

Lithium, MW-16 (mg/L)



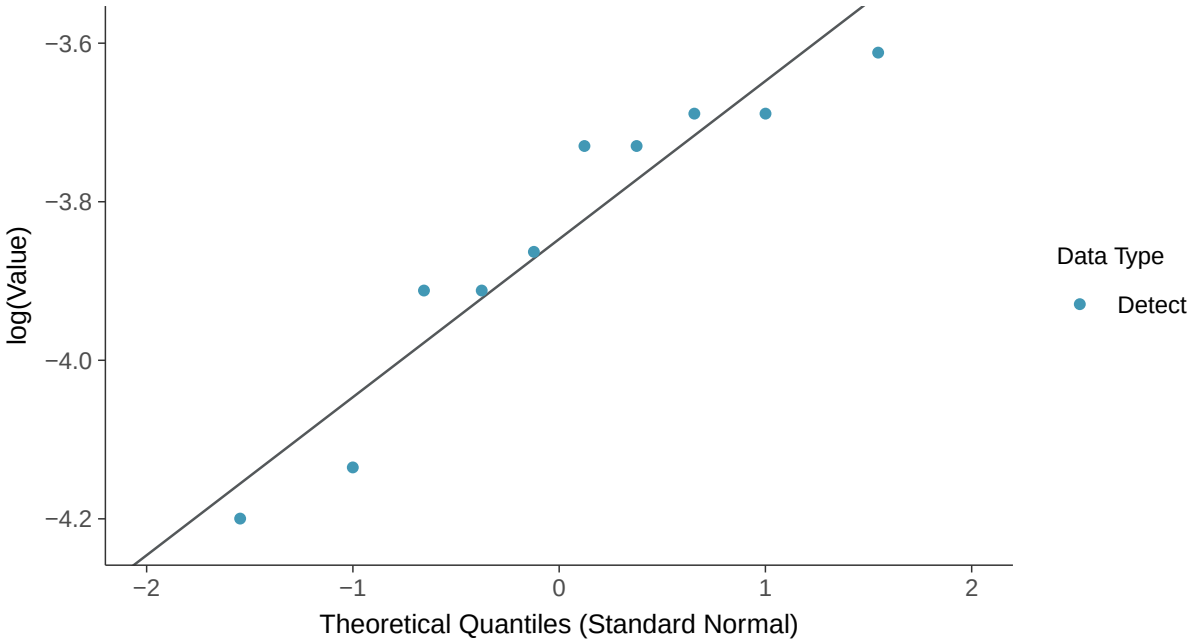
Normal Q-Q plot

Lithium, MW-16 (mg/L)



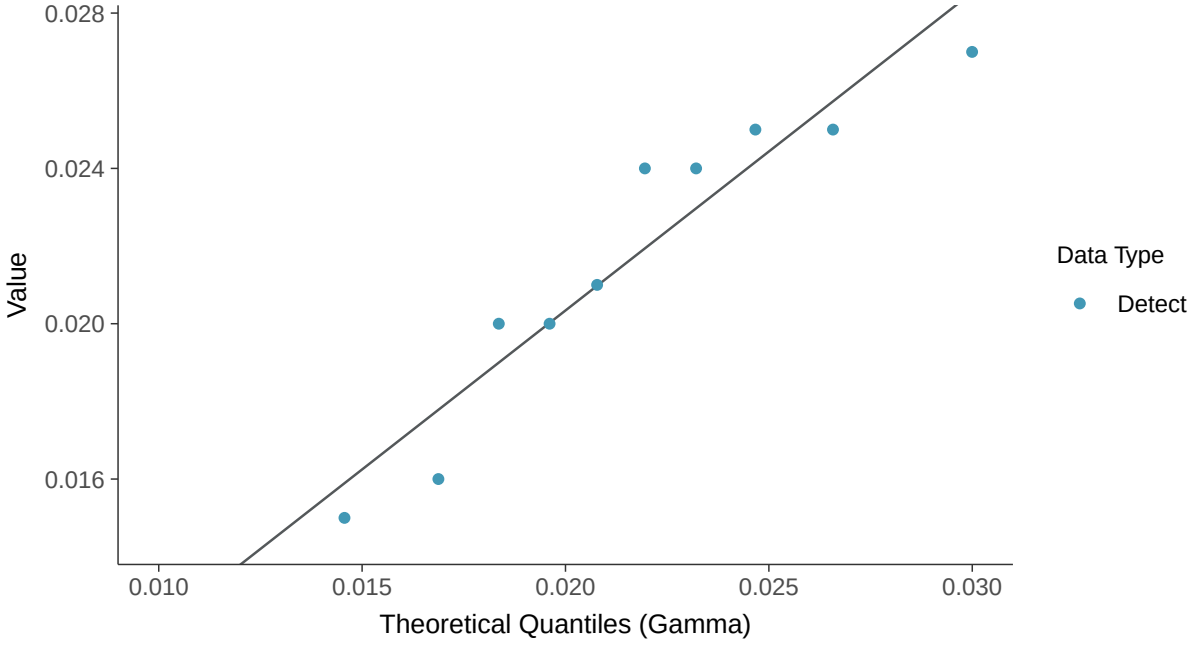
Lognormal Q-Q plot

Lithium, MW-16 (mg/L)



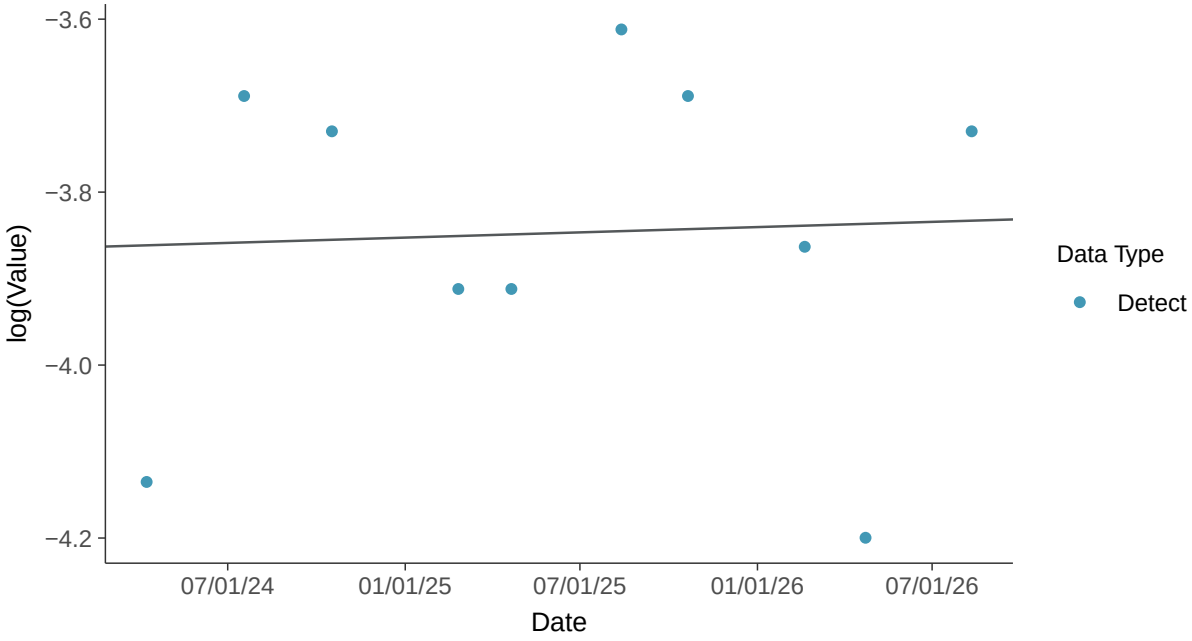
Gamma Q-Q plot

Lithium, MW-16 (mg/L)



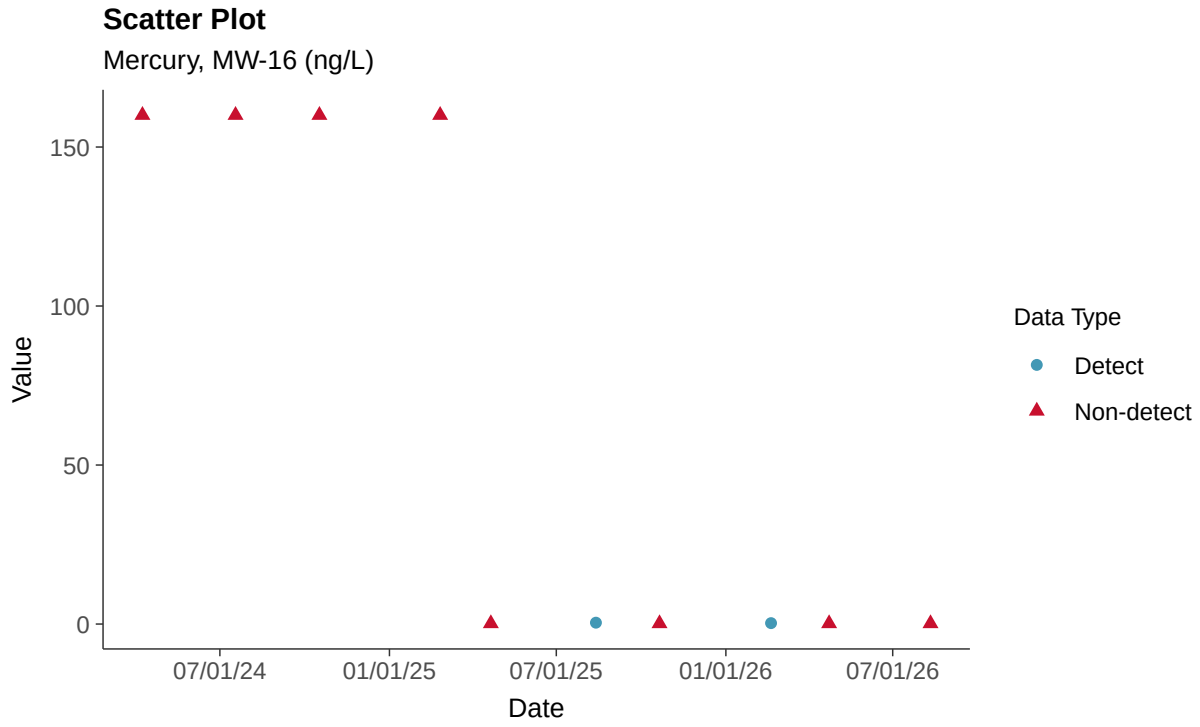
Trend Regression: Lognormal MLE

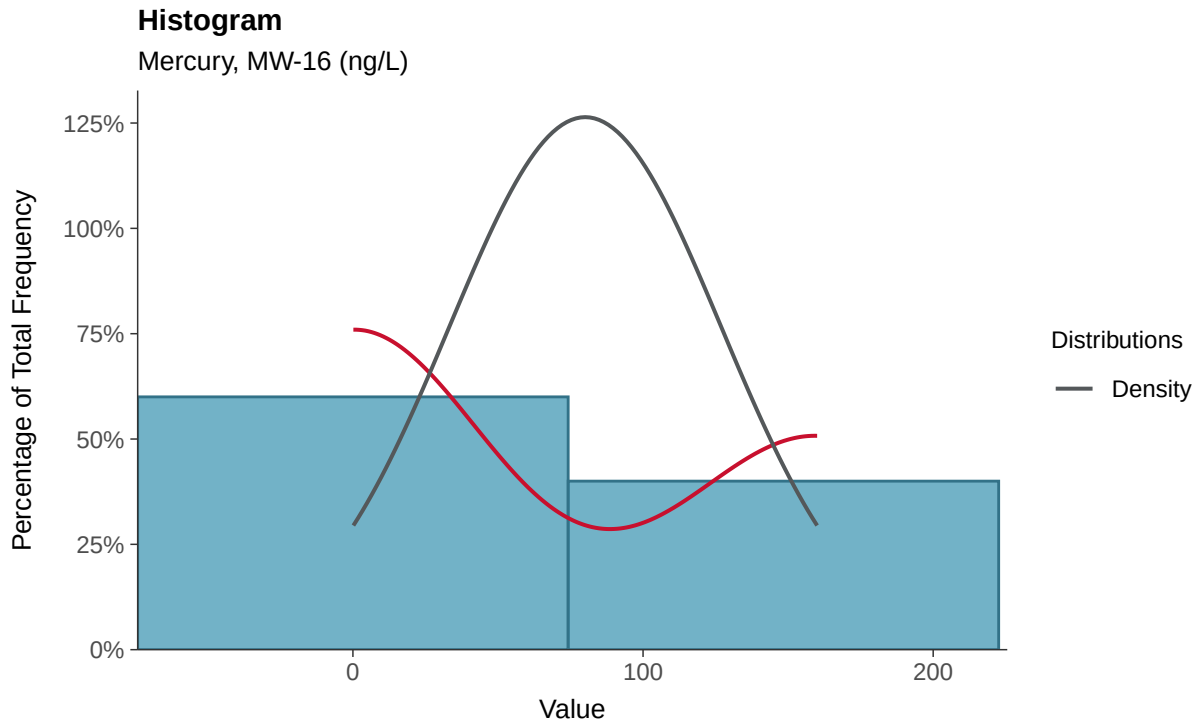
Lithium, MW-16 (mg/L)



Appendix IV: Mercury, MW-16

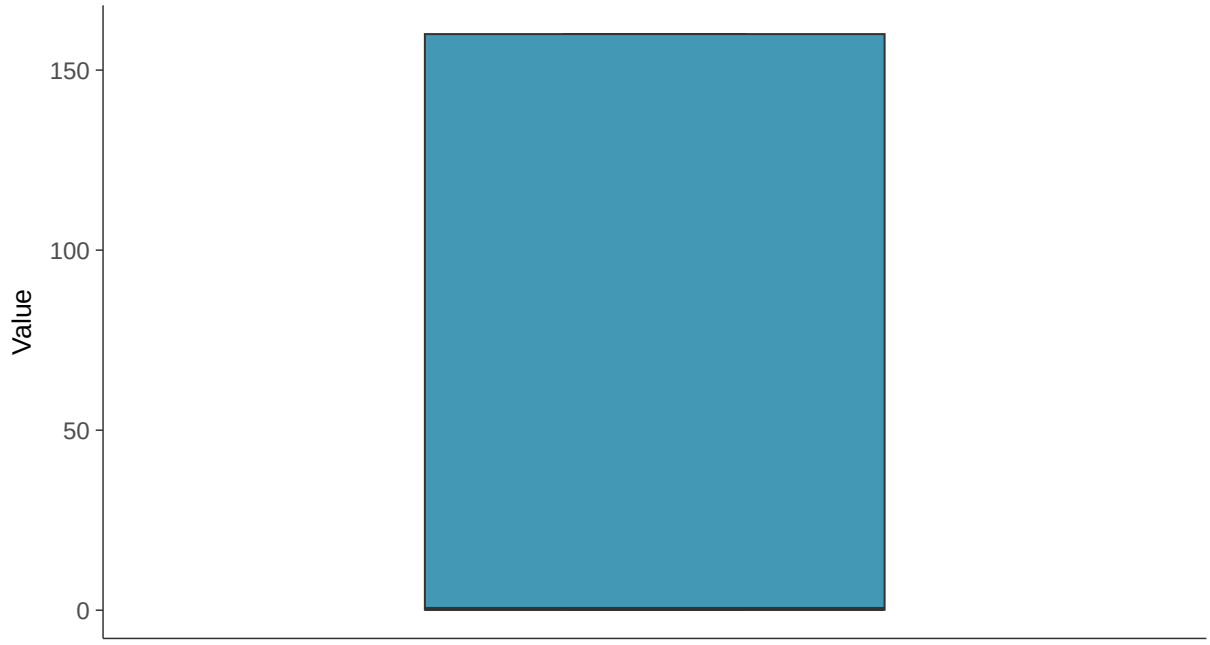
ID: 26_1_4_117





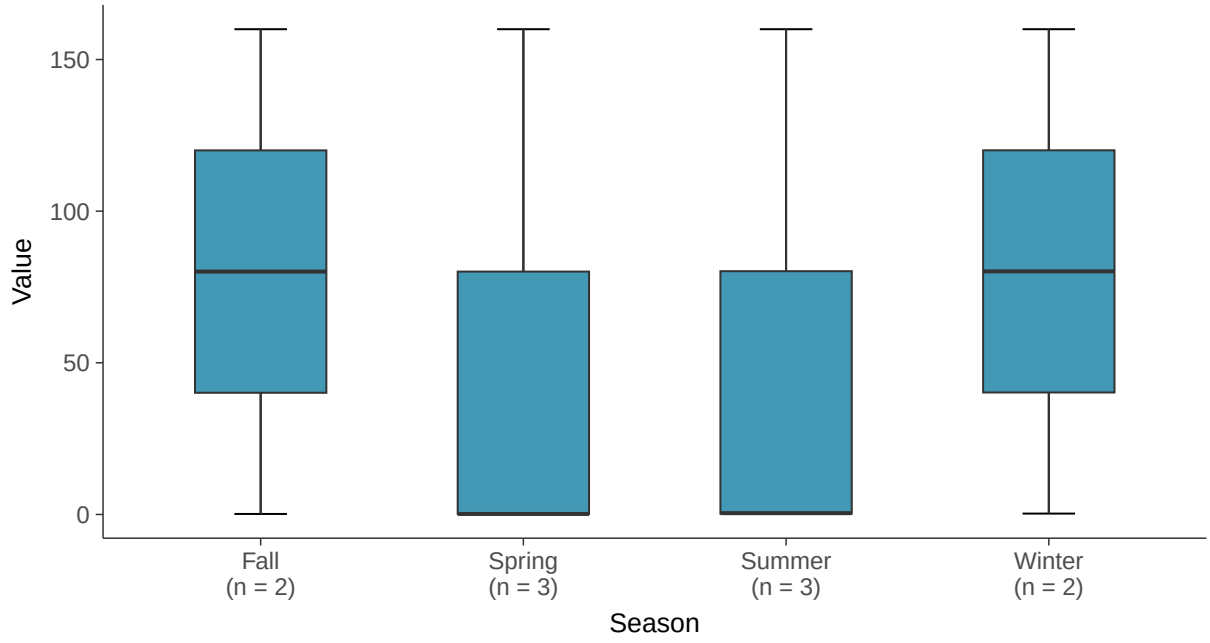
Boxplot

Mercury, MW-16 (ng/L)



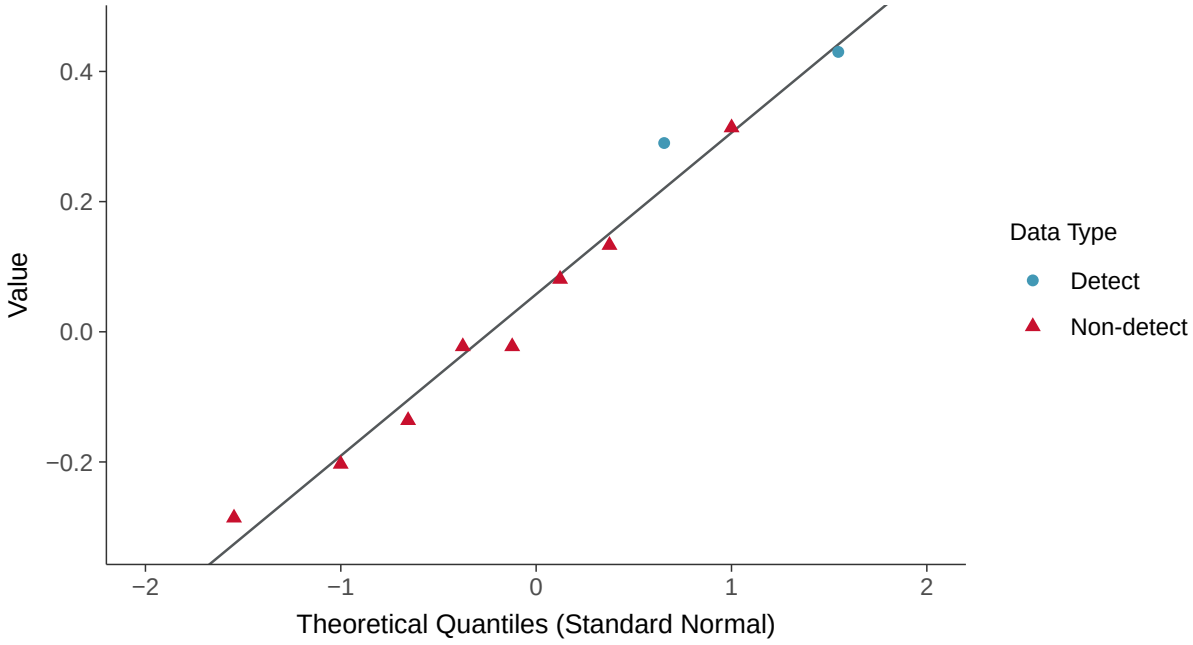
Boxplot by Season

Mercury, MW-16 (ng/L)



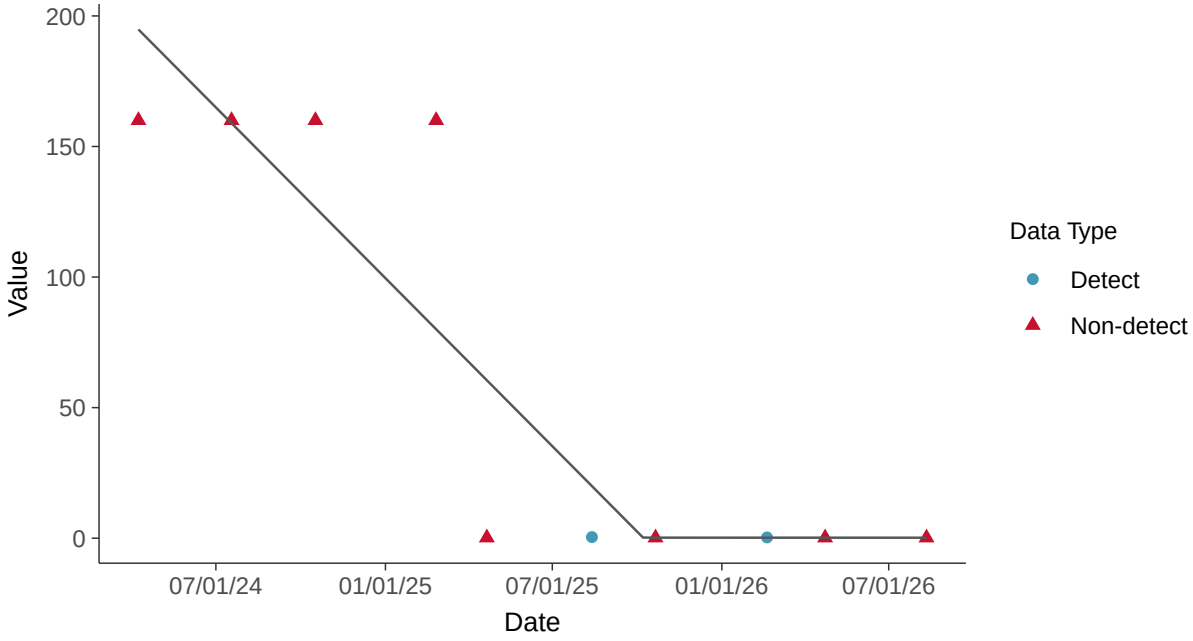
Normal Q-Q plot using ROS Imputed Estimates

Mercury, MW-16 (ng/L)



Trend Regression: Piecewise Linear-Linear

Mercury, MW-16 (ng/L)

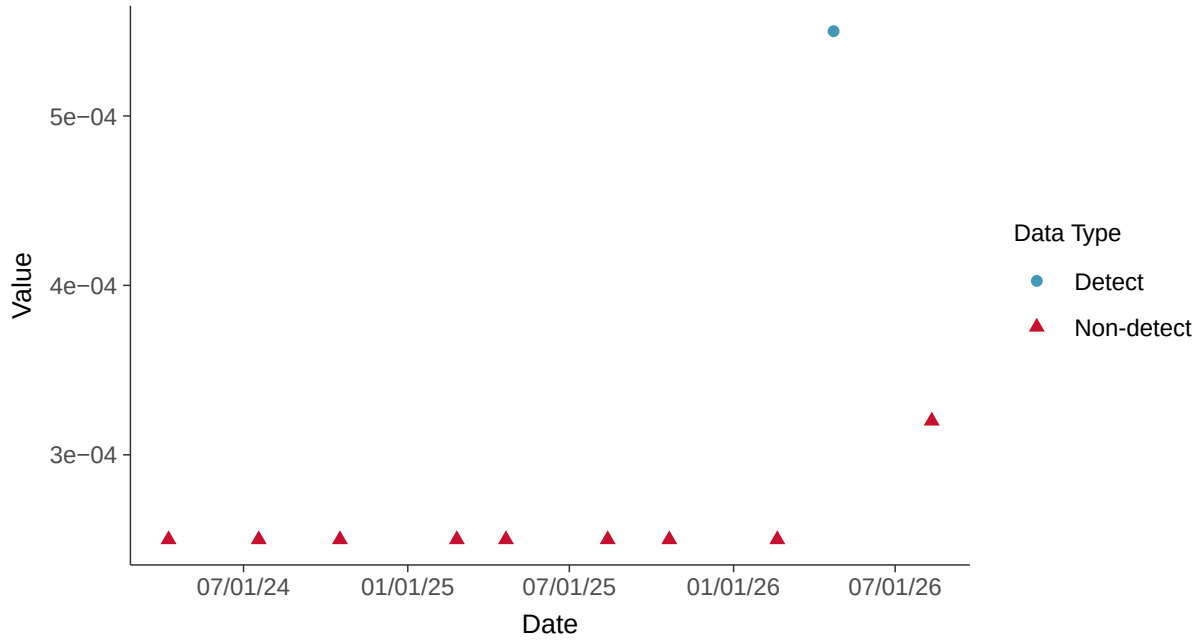


Appendix IV: Molybdenum, MW-16

ID: 26_1_4_118

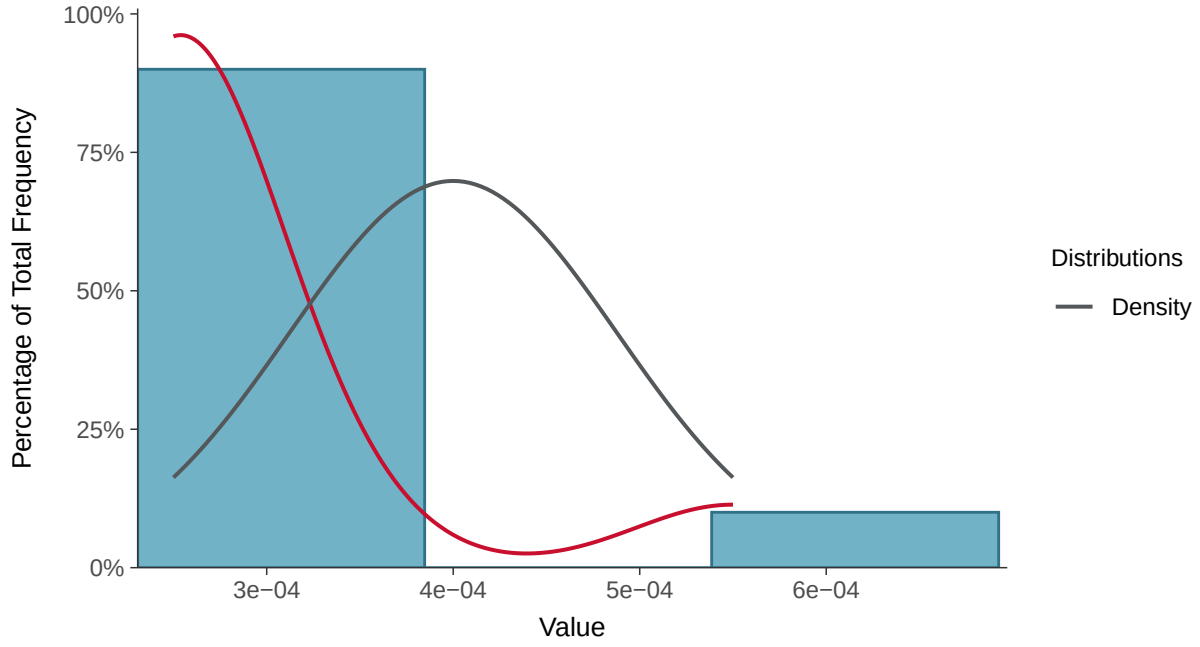
Scatter Plot

Molybdenum, MW-16 (mg/L)



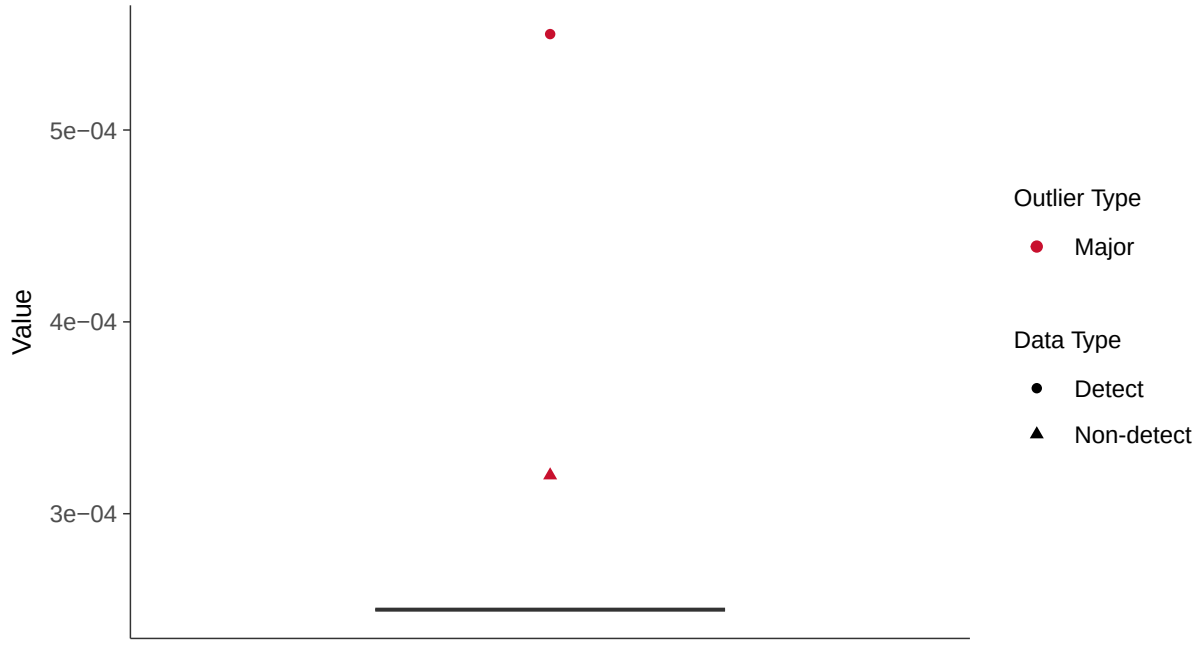
Histogram

Molybdenum, MW-16 (mg/L)



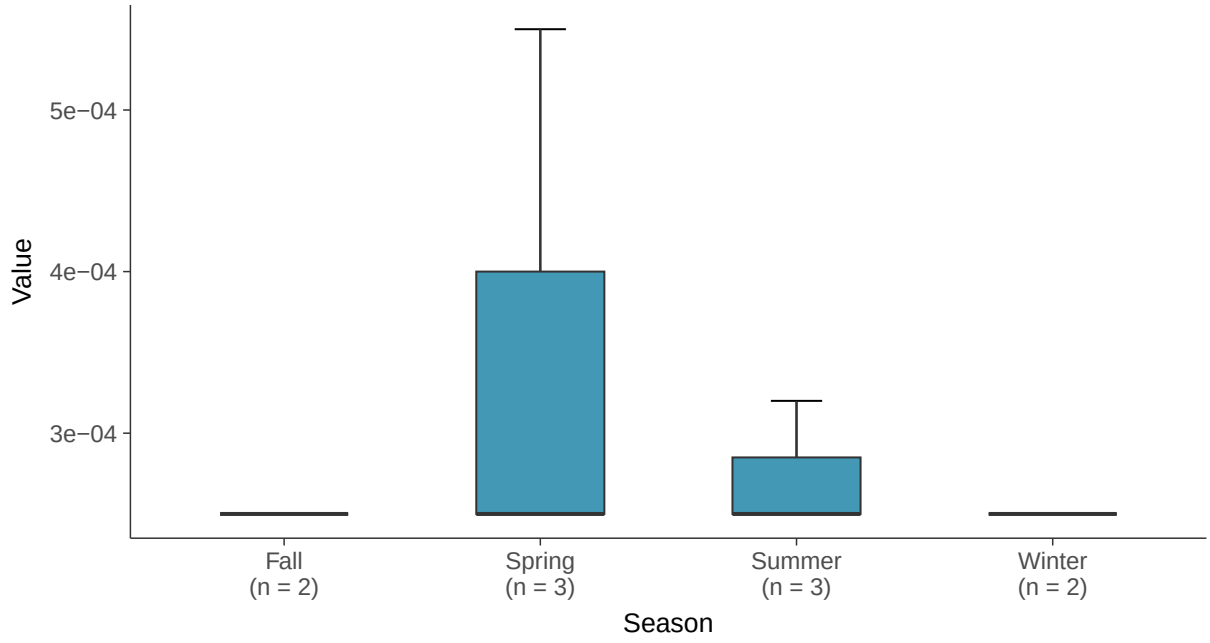
Boxplot

Molybdenum, MW-16 (mg/L)



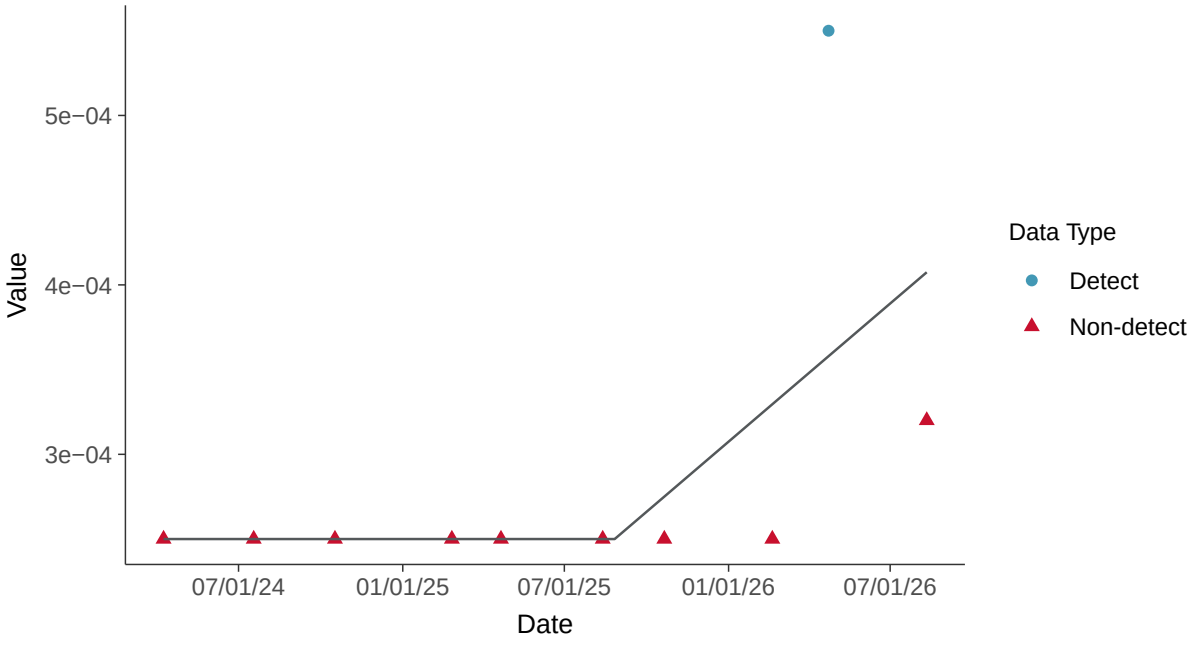
Boxplot by Season

Molybdenum, MW-16 (mg/L)



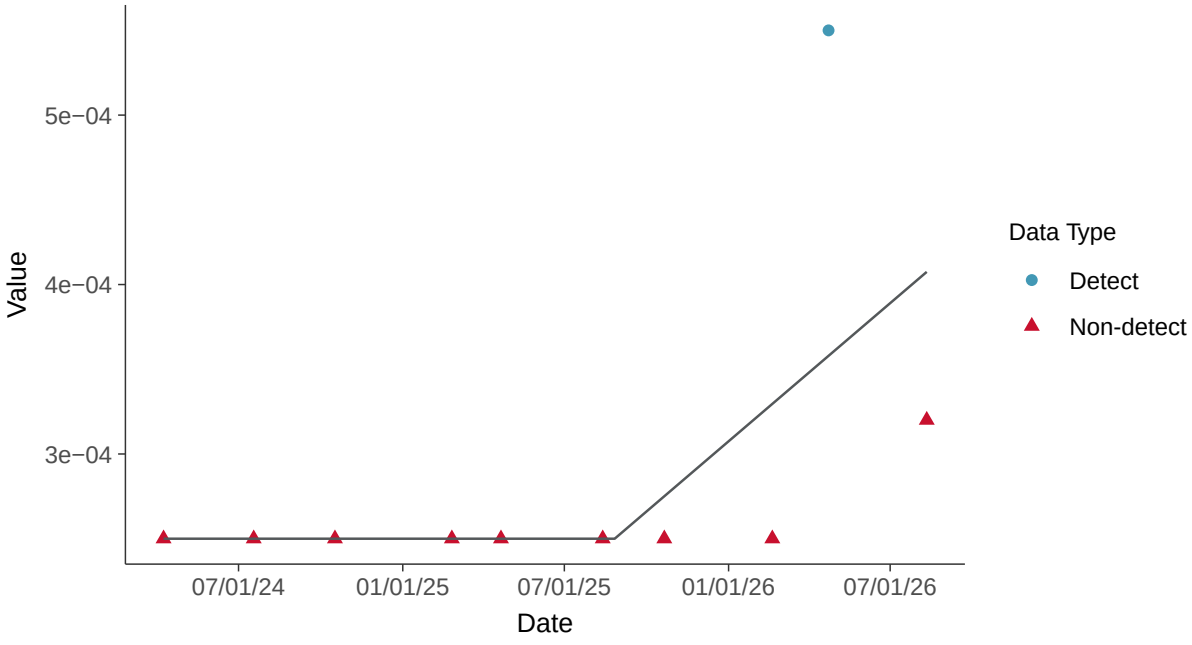
Trend Regression: Piecewise Linear-Linear

Molybdenum, MW-16 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Molybdenum, MW-16 (mg/L)

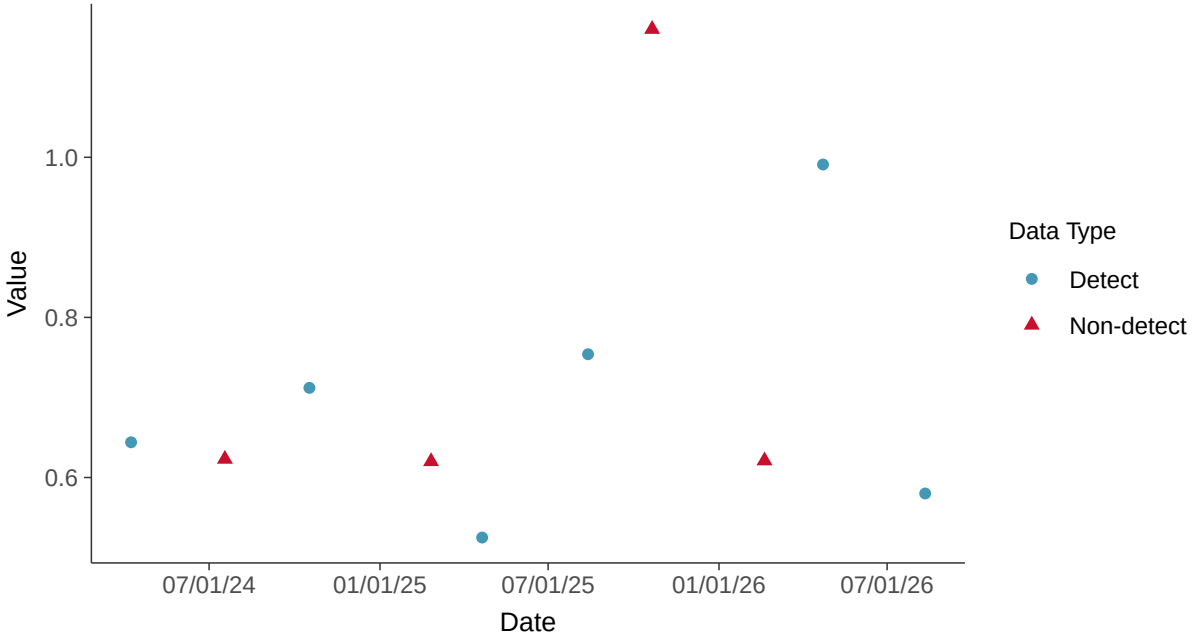


Appendix IV: Radium 226 and 228, MW-16

ID: 26_1_4_121

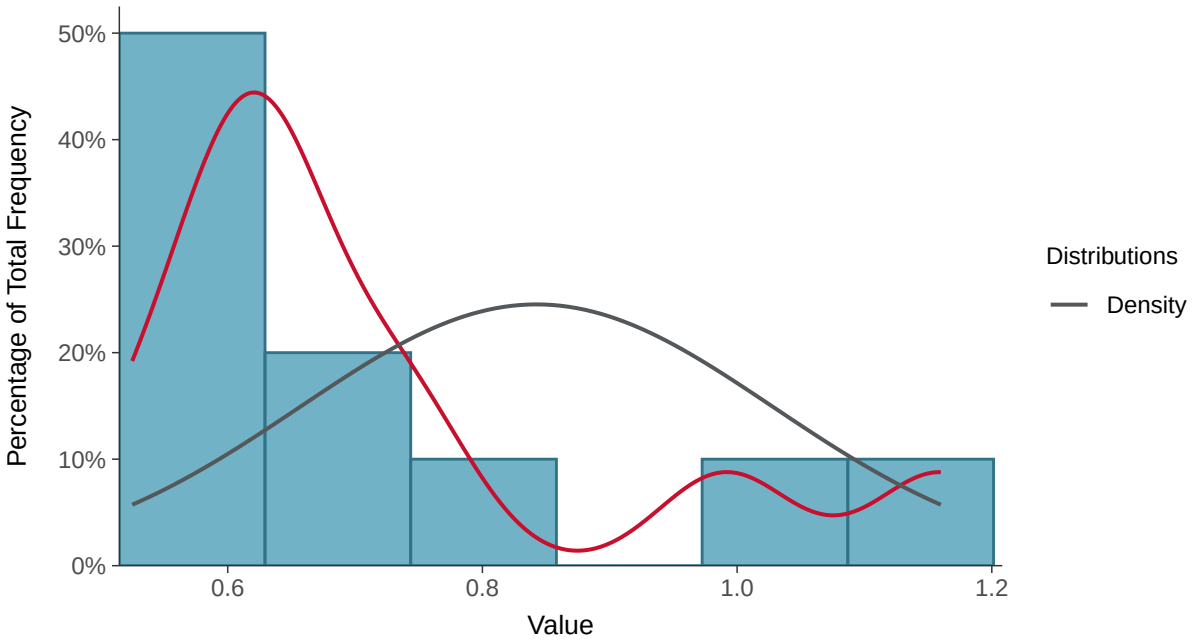
Scatter Plot

Radium 226 and 228, MW-16 (pCi/L)



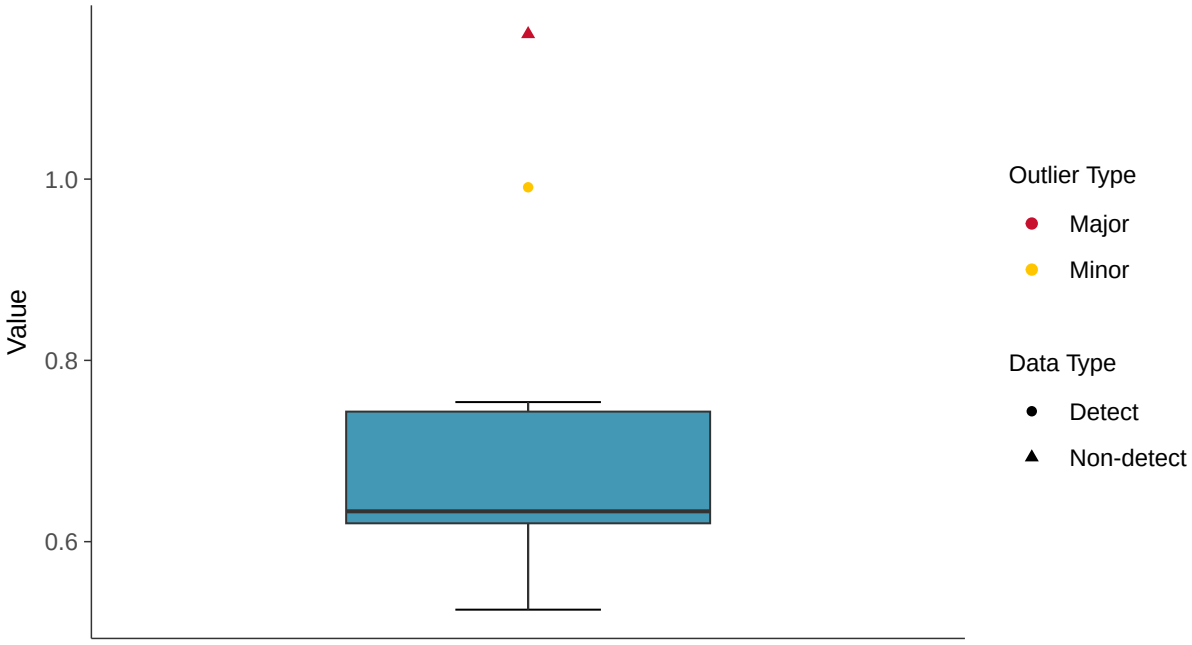
Histogram

Radium 226 and 228, MW-16 (pCi/L)



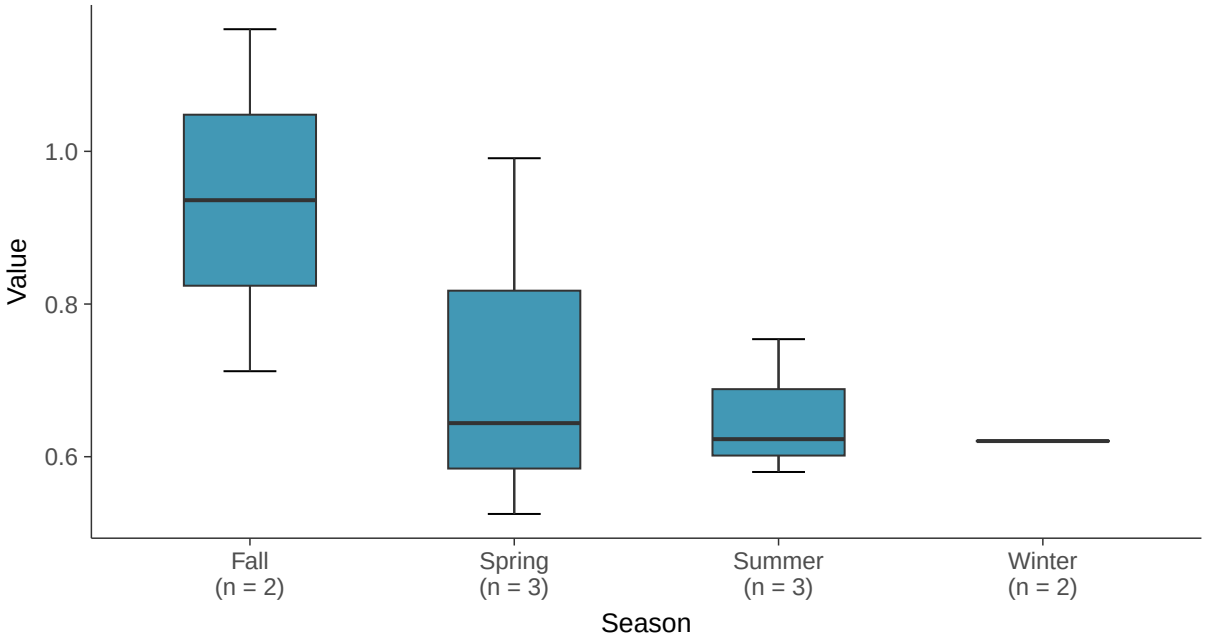
Boxplot

Radium 226 and 228, MW-16 (pCi/L)



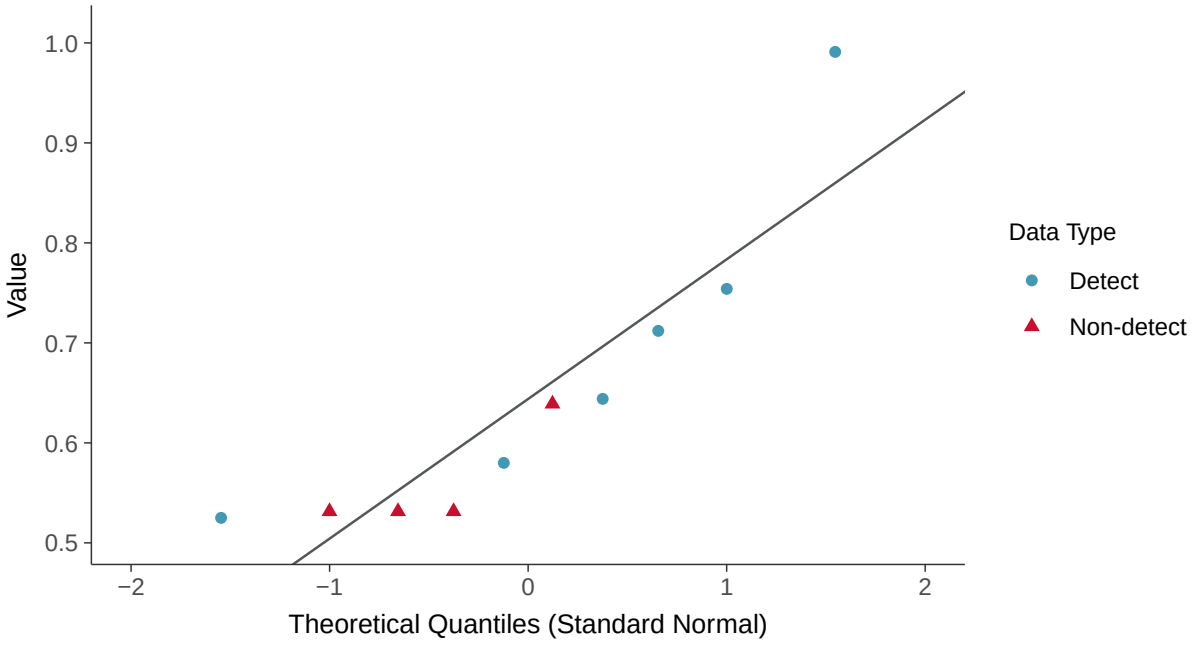
Boxplot by Season

Radium 226 and 228, MW-16 (pCi/L)



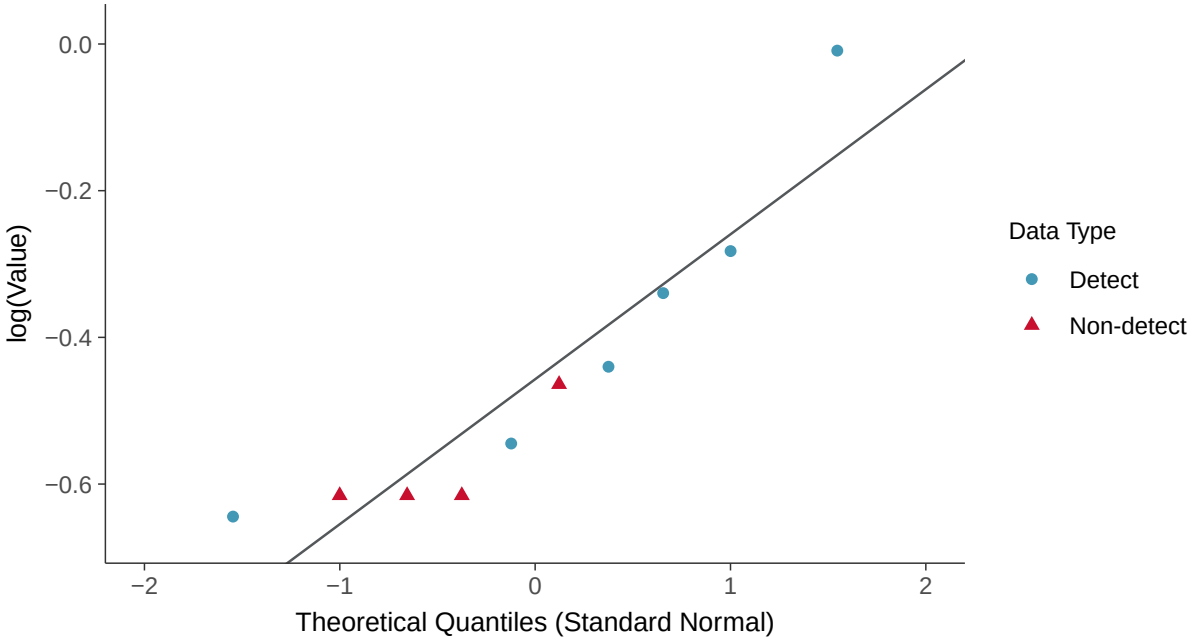
Normal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-16 (pCi/L)



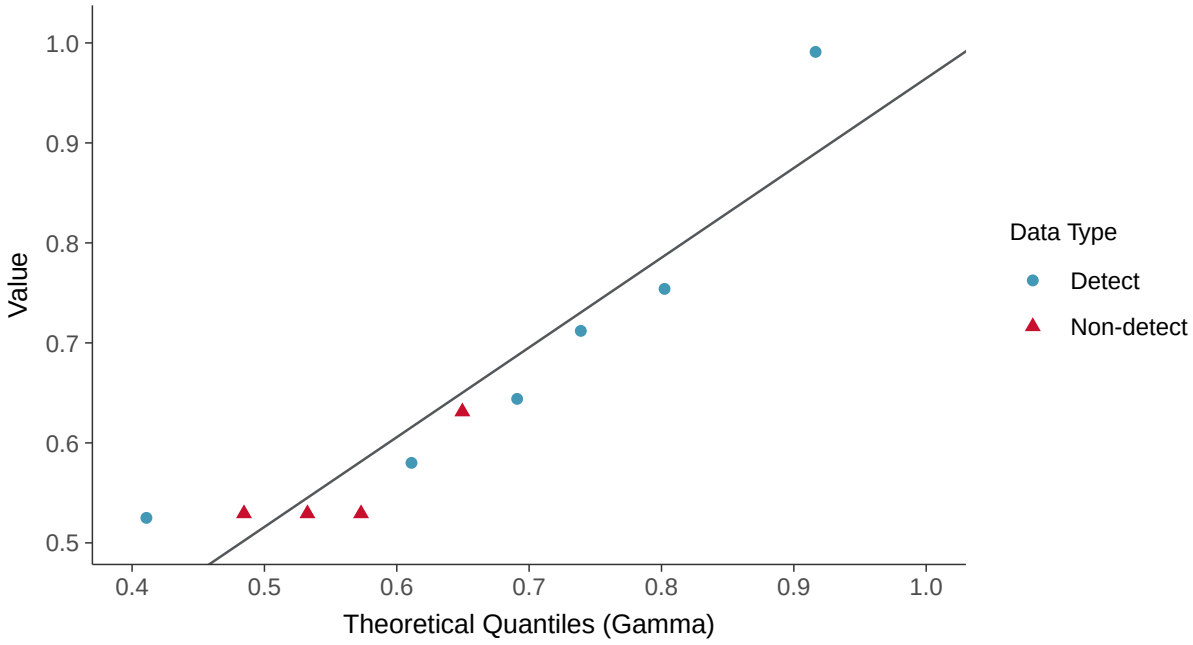
Lognormal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-16 (pCi/L)



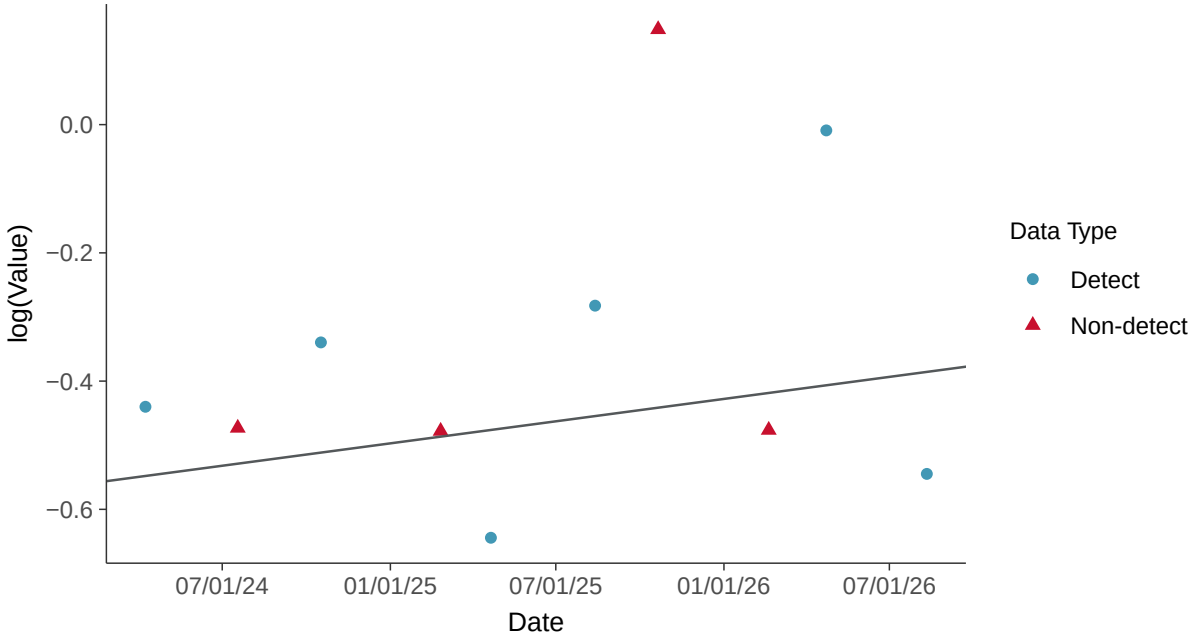
Gamma Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-16 (pCi/L)



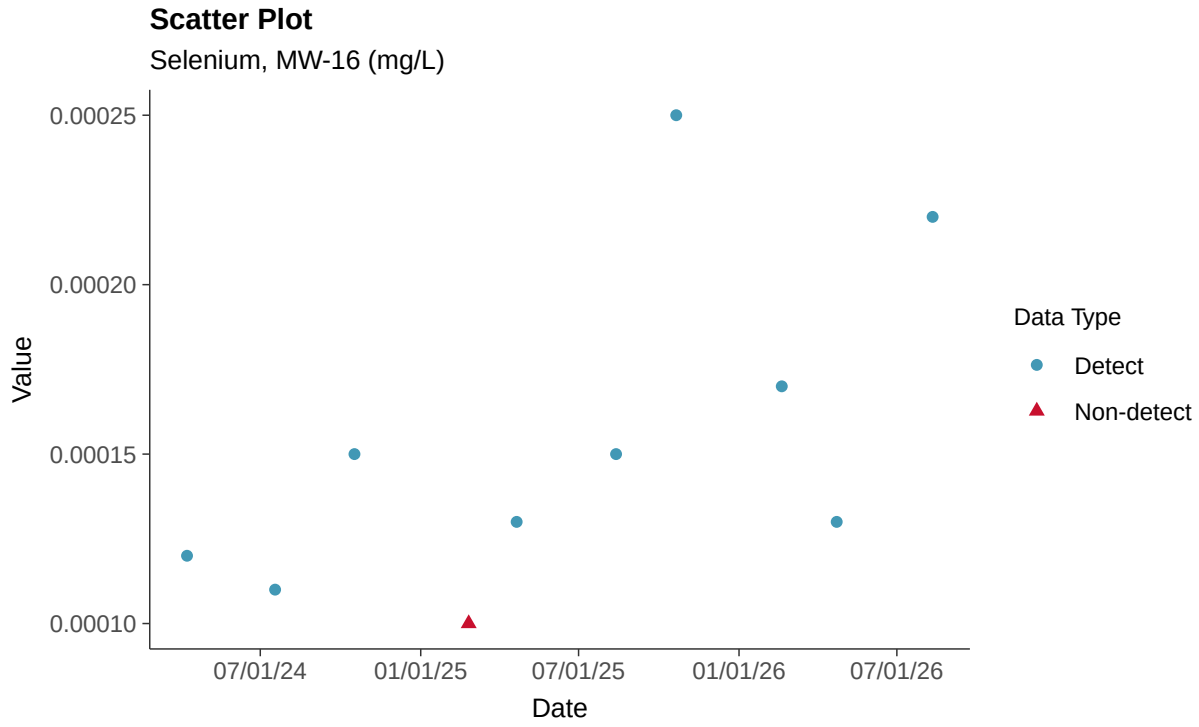
Trend Regression: Lognormal MLE

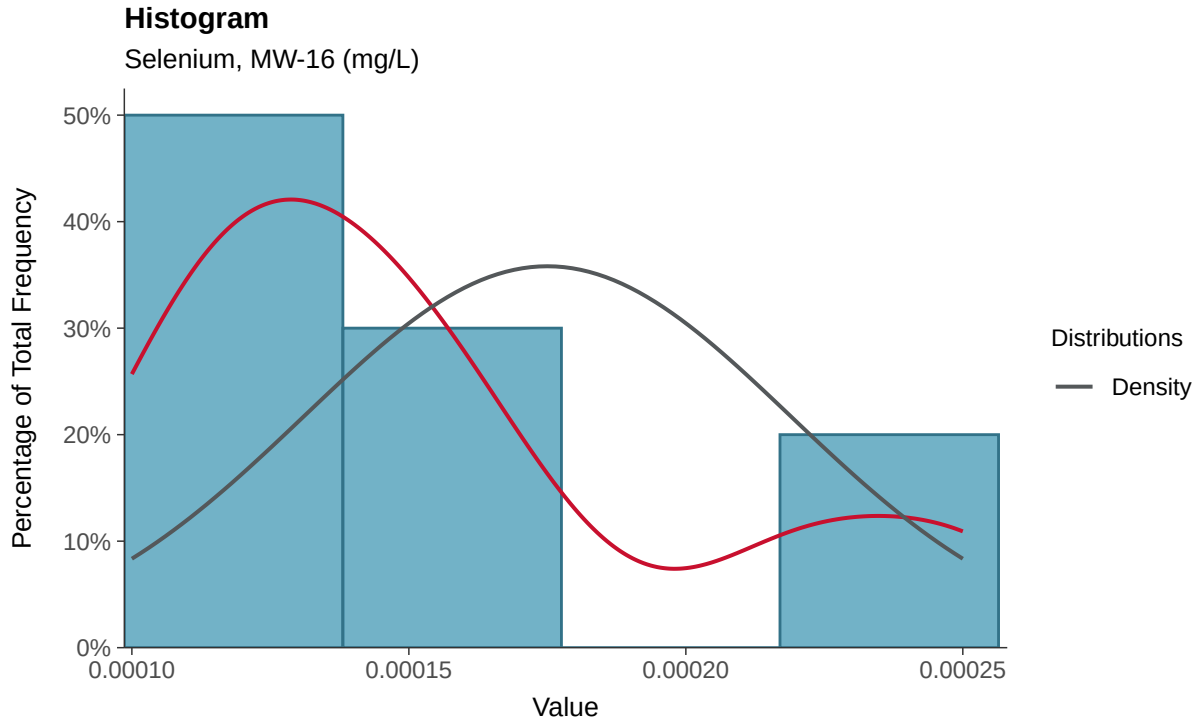
Radium 226 and 228, MW-16 (pCi/L)



Appendix IV: Selenium, MW-16

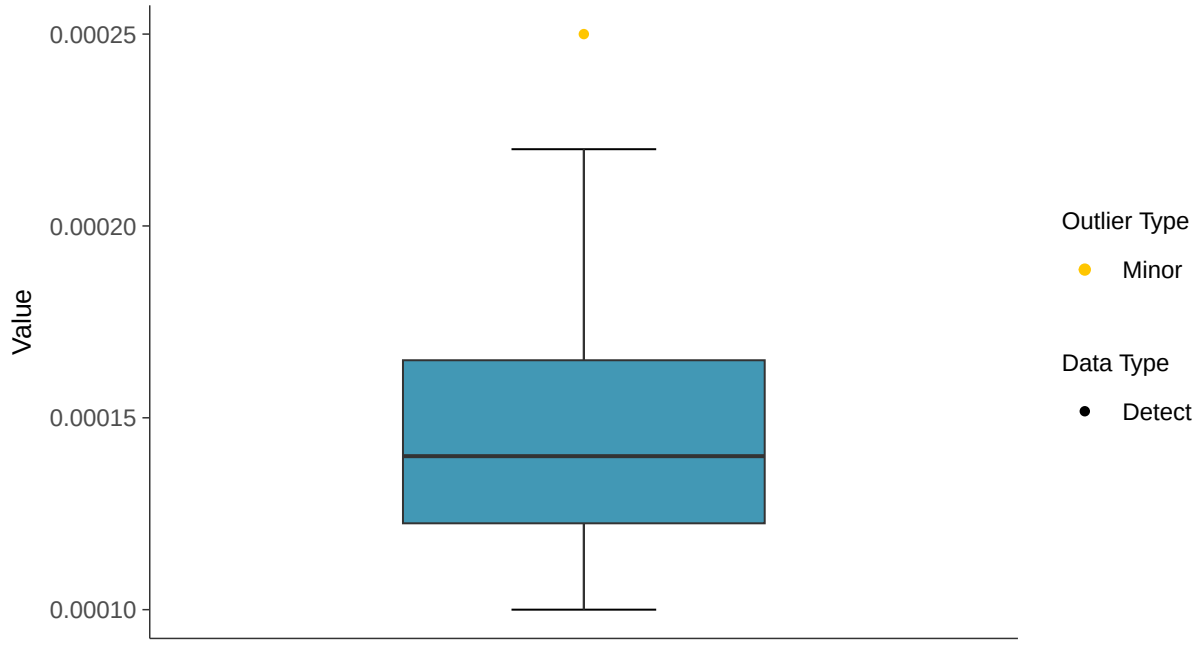
ID: 26_1_4_122





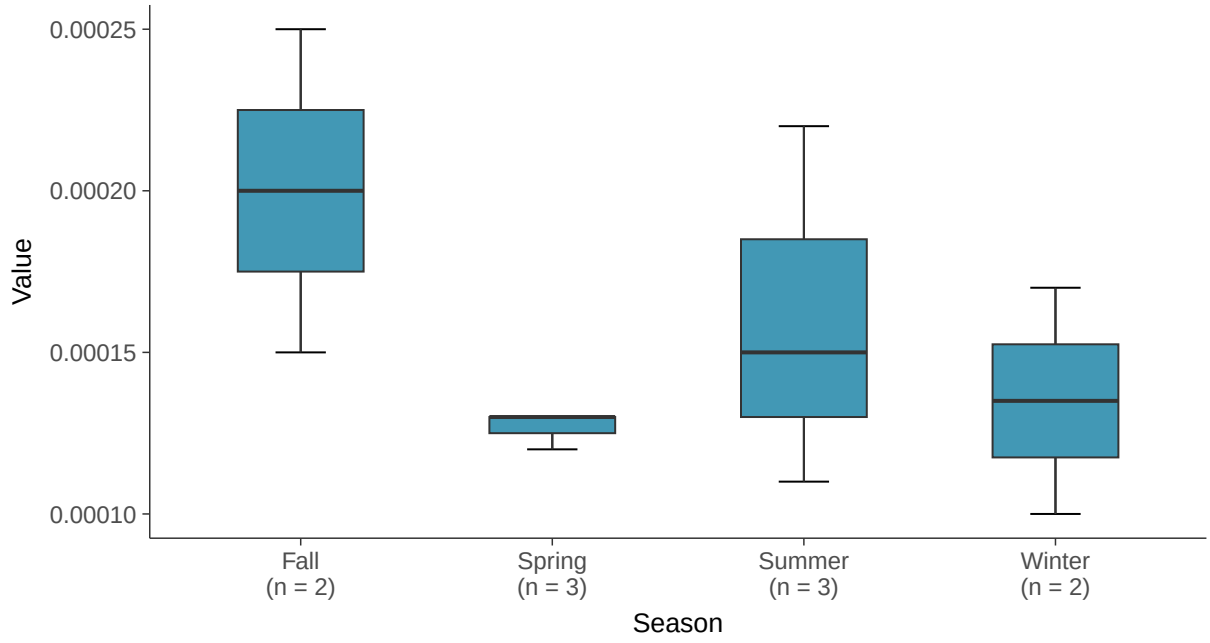
Boxplot

Selenium, MW-16 (mg/L)



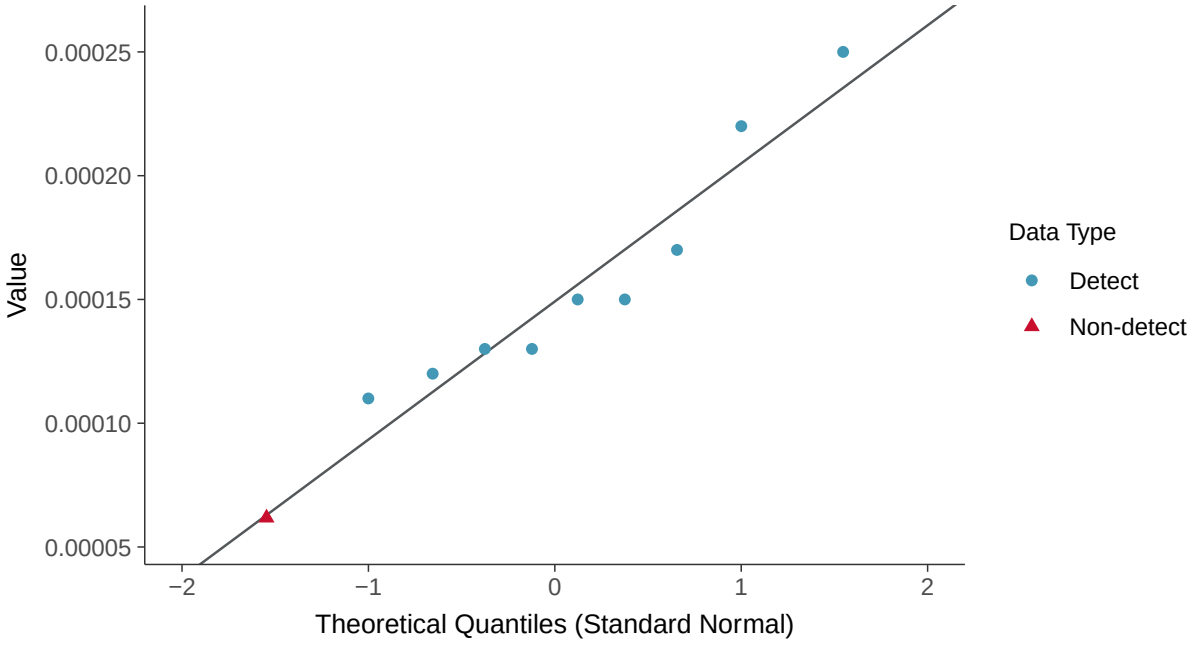
Boxplot by Season

Selenium, MW-16 (mg/L)



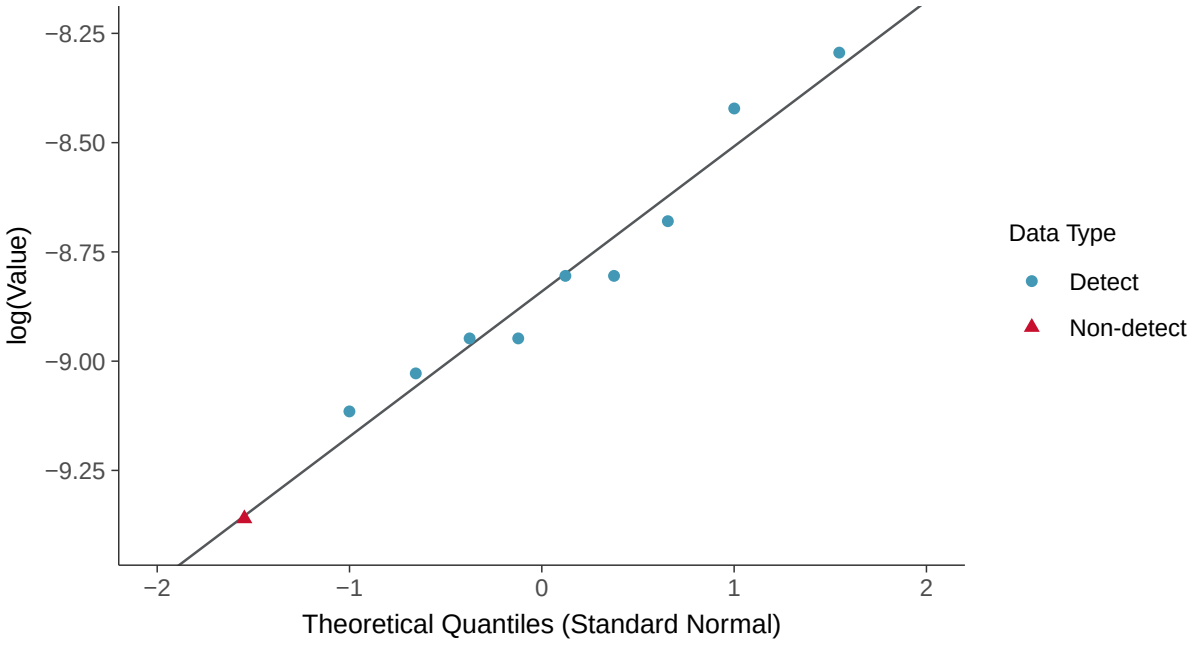
Normal Q-Q plot using ROS Imputed Estimates

Selenium, MW-16 (mg/L)



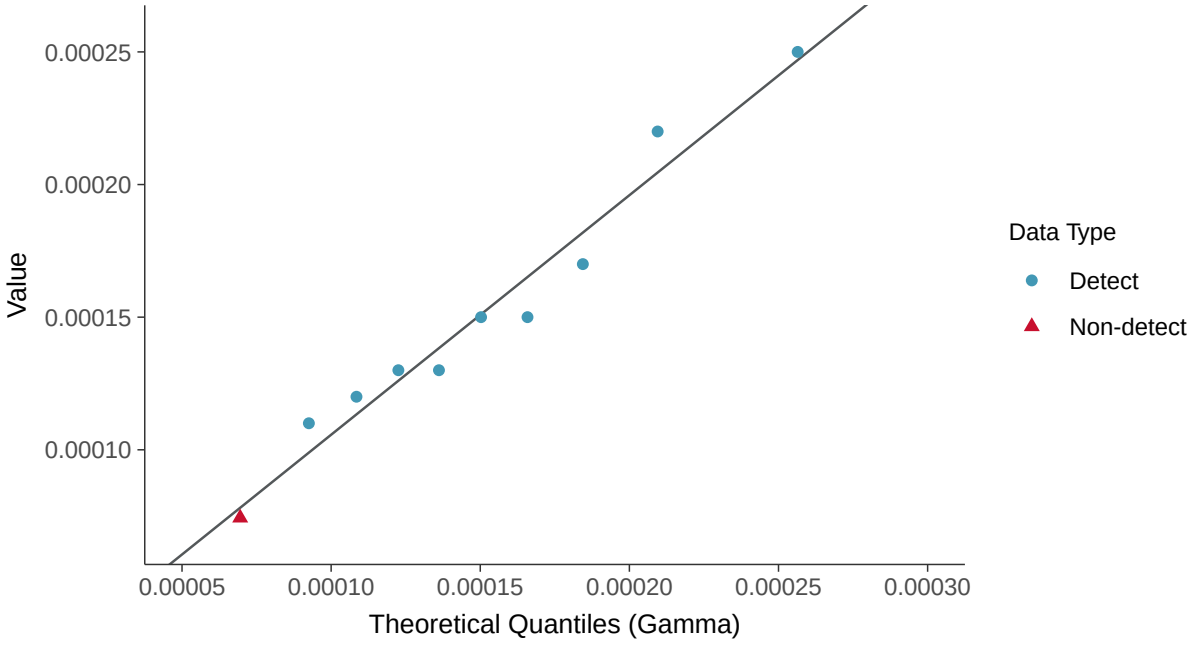
Lognormal Q-Q plot using ROS Imputed Estimates

Selenium, MW-16 (mg/L)



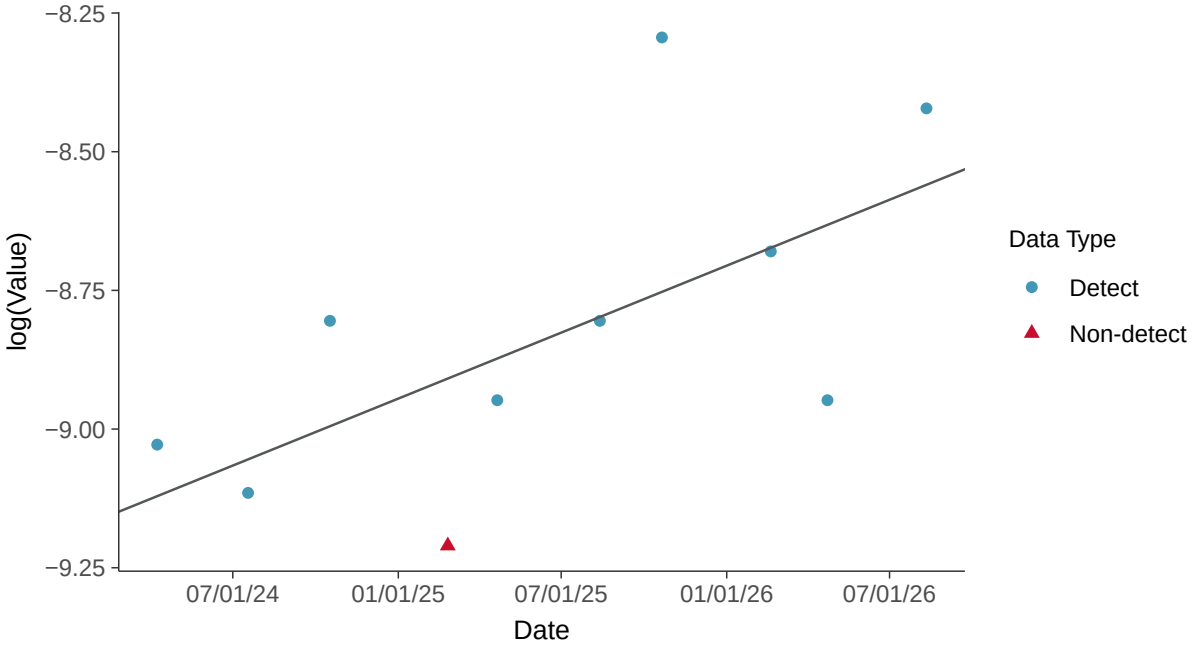
Gamma Q-Q plot using ROS Imputed Estimates

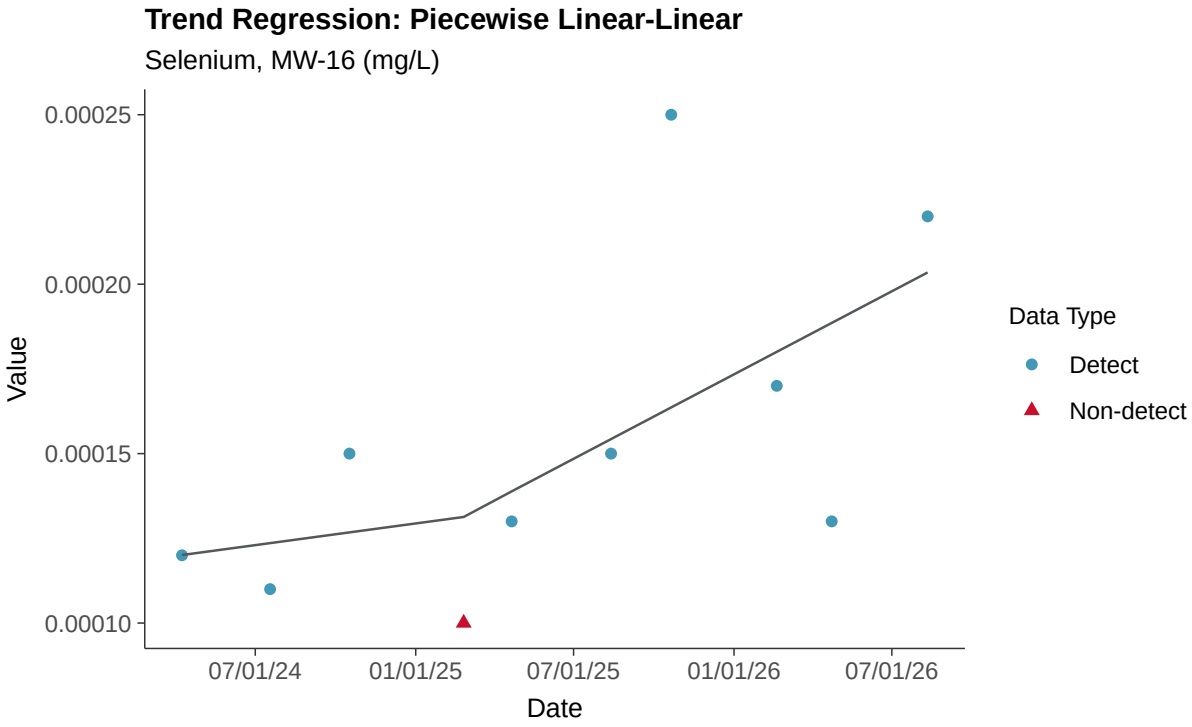
Selenium, MW-16 (mg/L)



Trend Regression: Lognormal MLE

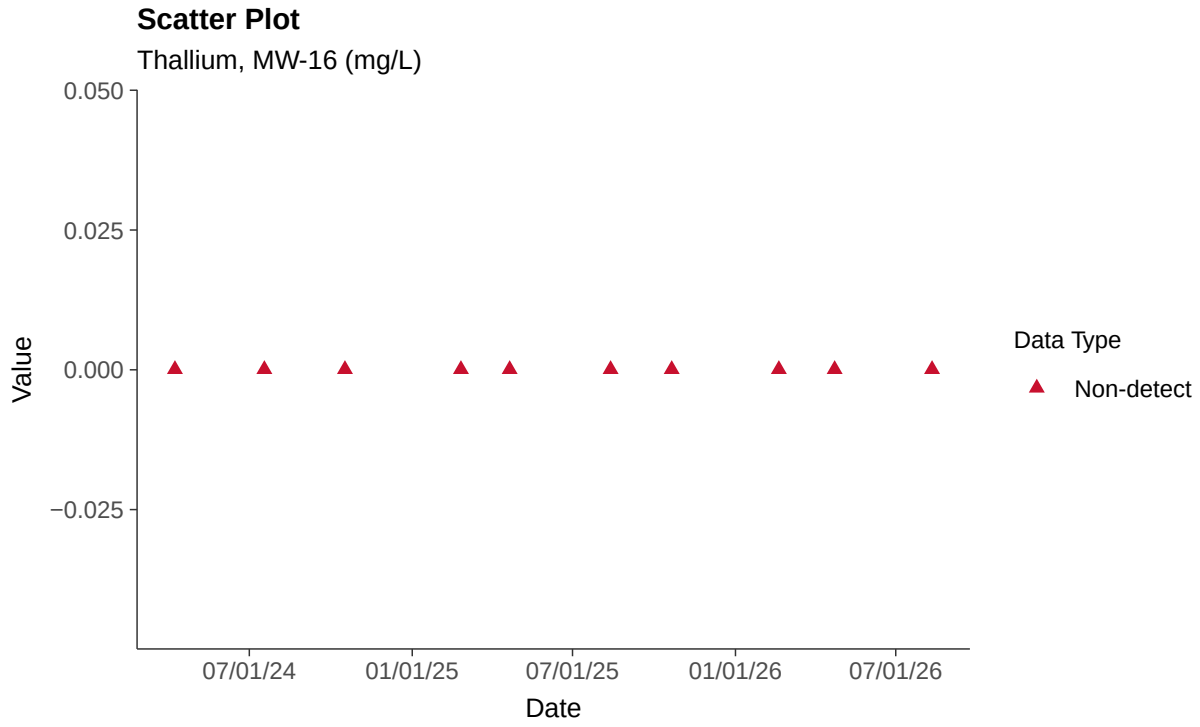
Selenium, MW-16 (mg/L)

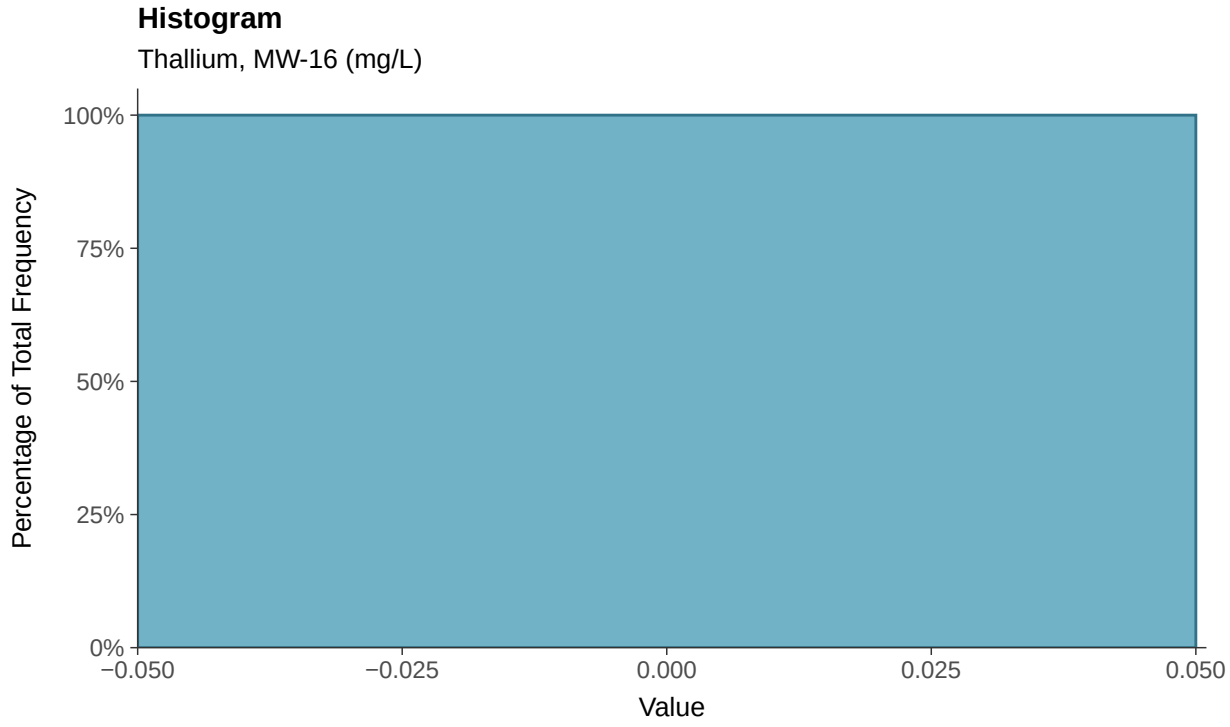



Trend Regression: Piecewise Linear-Linear
Selenium, MW-16 (mg/L)
0.00025
0.00020
0.00015
0.00010
Value
07/01/24
01/01/25
07/01/25
01/01/26
07/01/26
Date
Data Type
Detect
Non-detect

Appendix IV: Thallium, MW-16

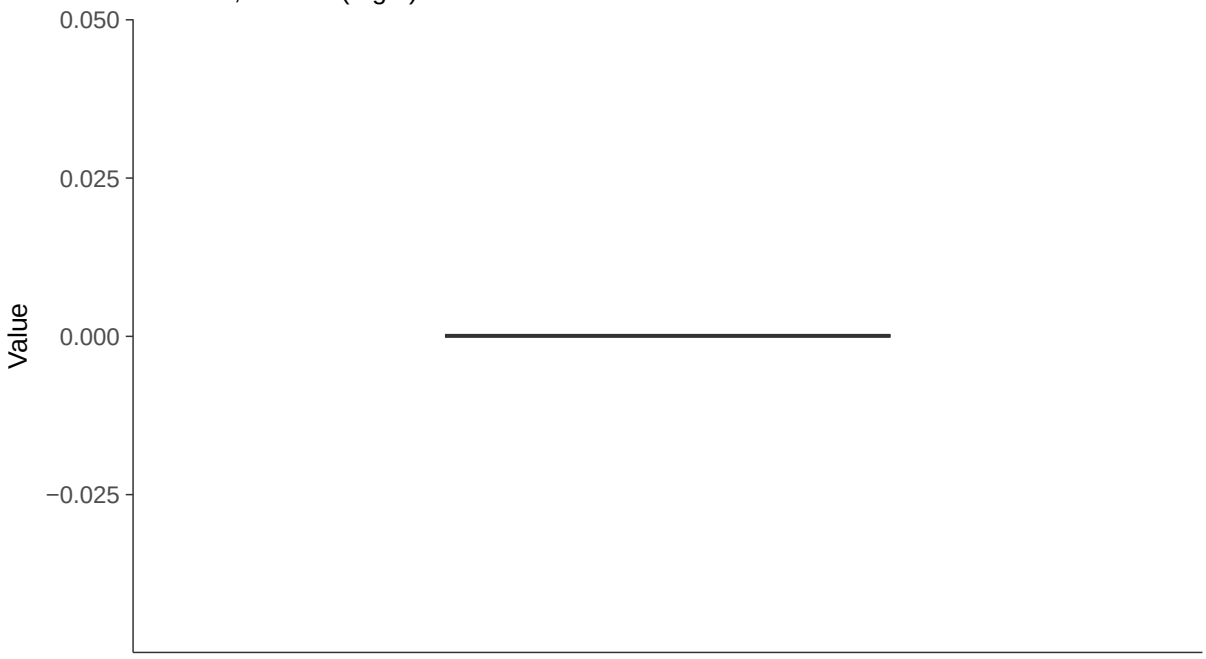
ID: 26_1_4_125





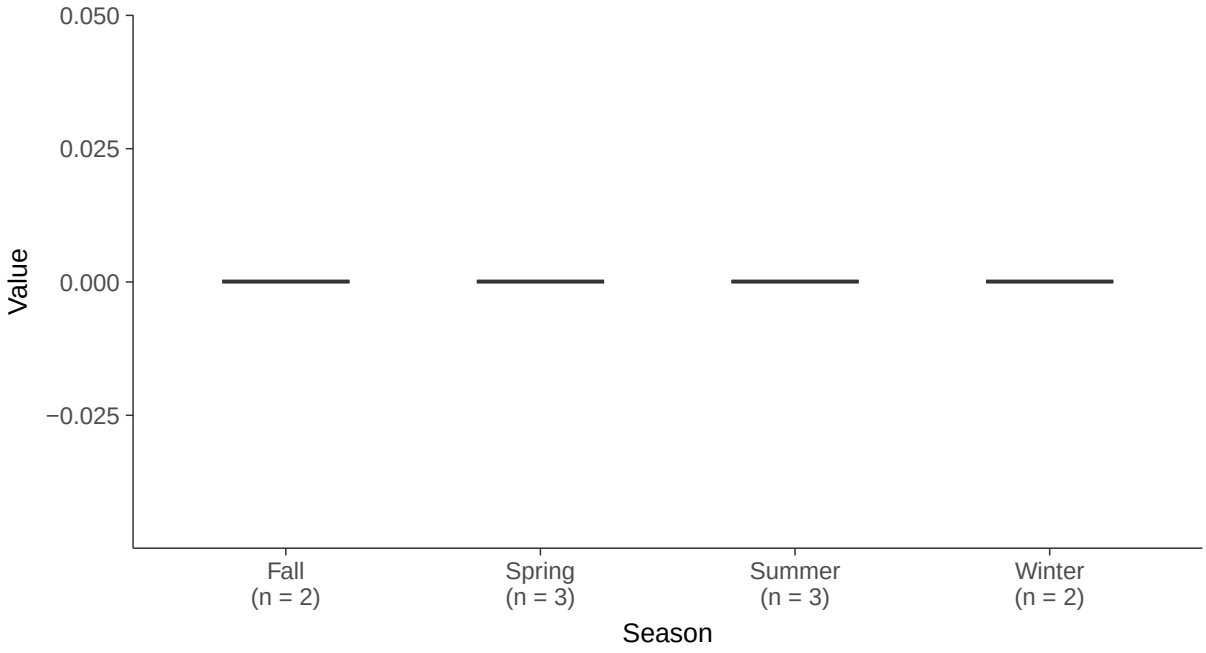
Boxplot

Thallium, MW-16 (mg/L)



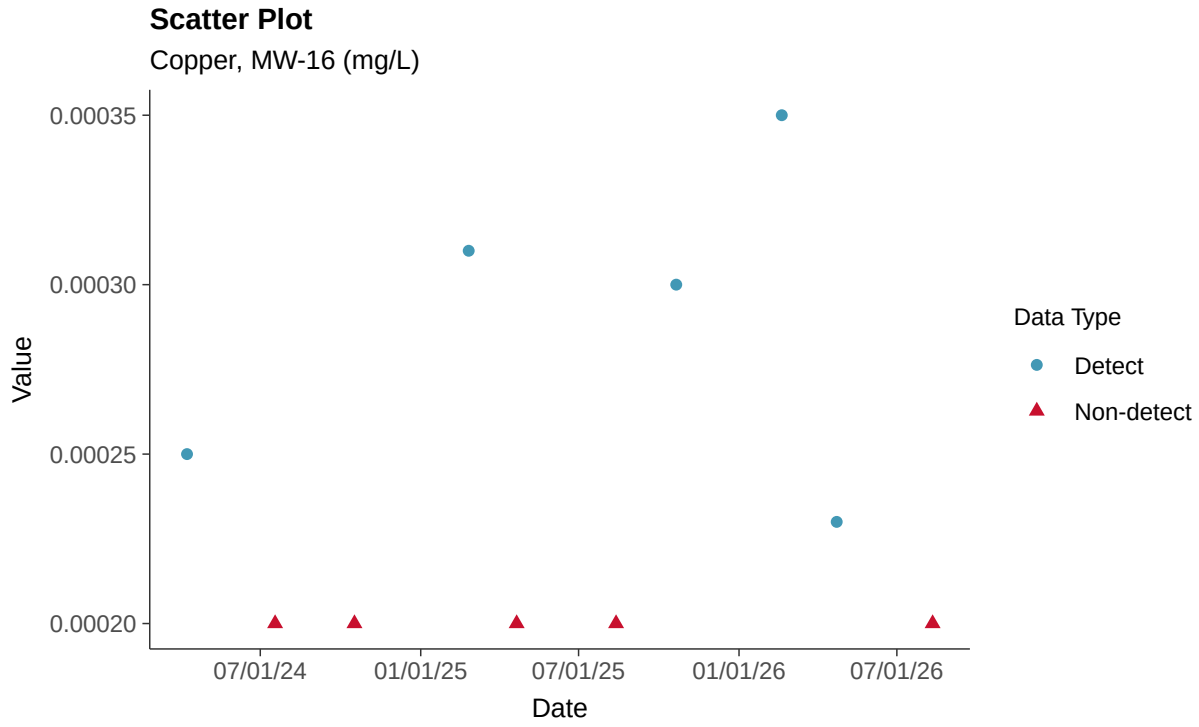
Boxplot by Season

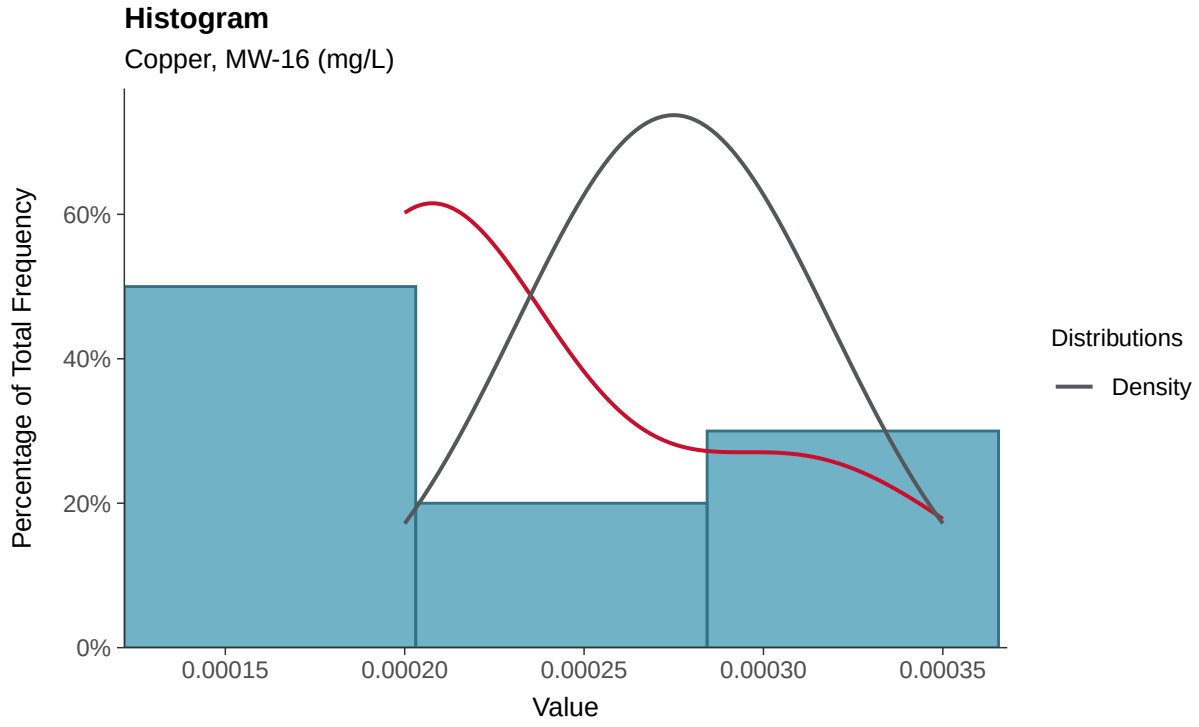
Thallium, MW-16 (mg/L)



Part 115: Copper, MW-16

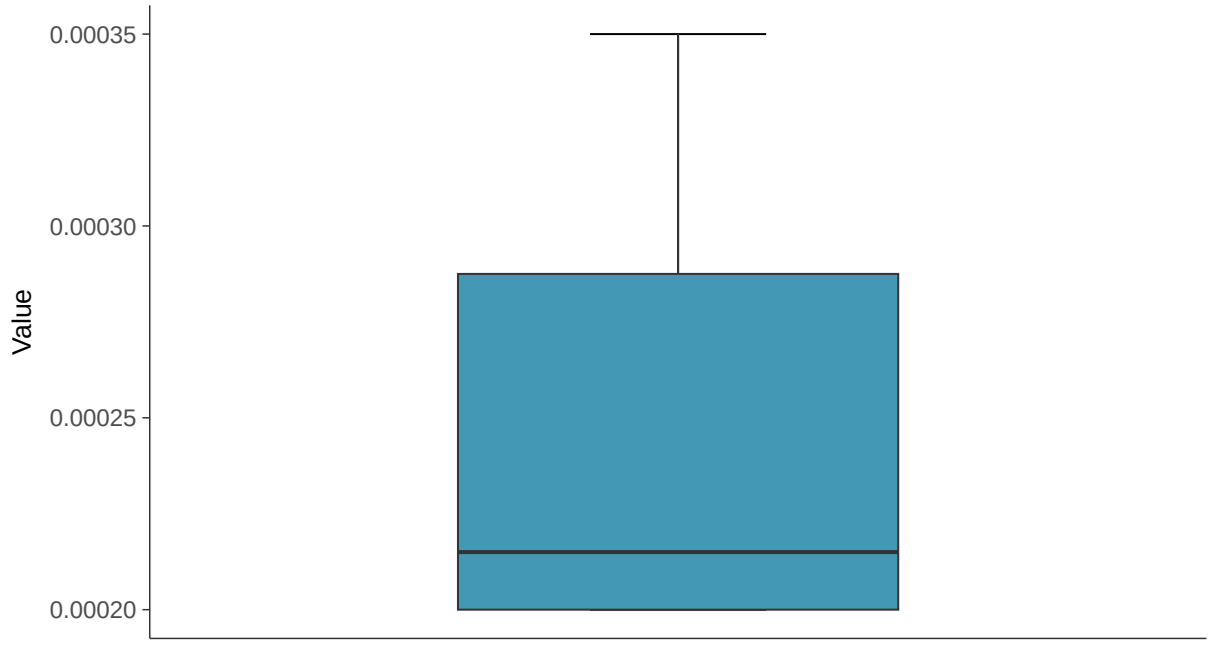
ID: 26_1_5_111





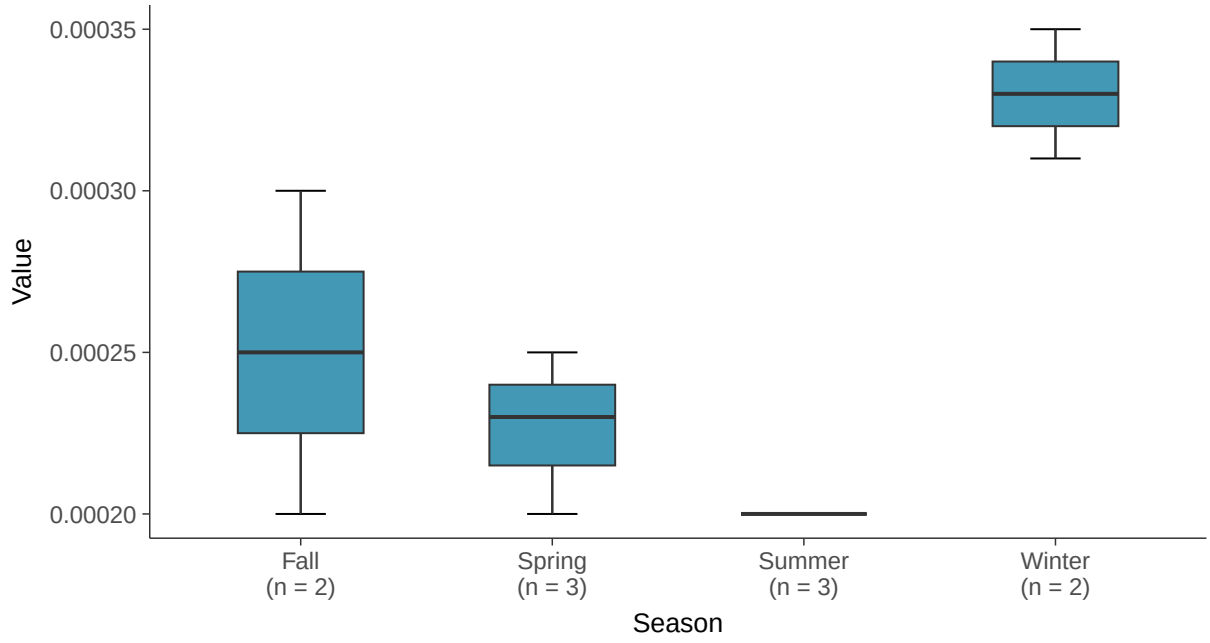
Boxplot

Copper, MW-16 (mg/L)



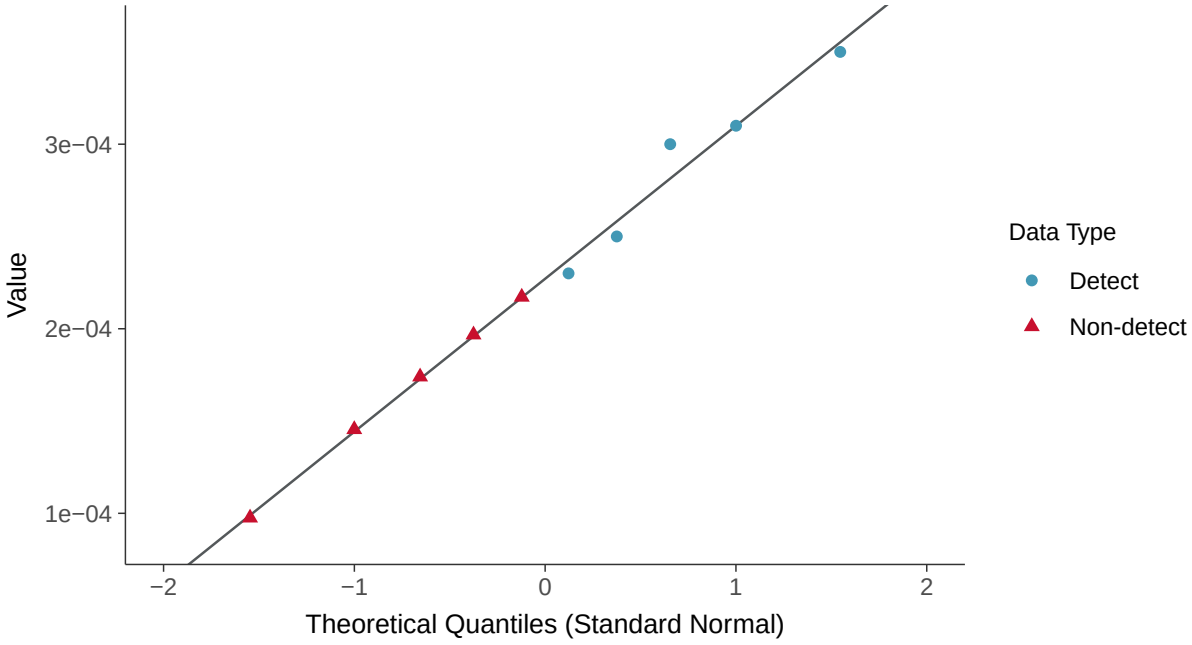
Boxplot by Season

Copper, MW-16 (mg/L)



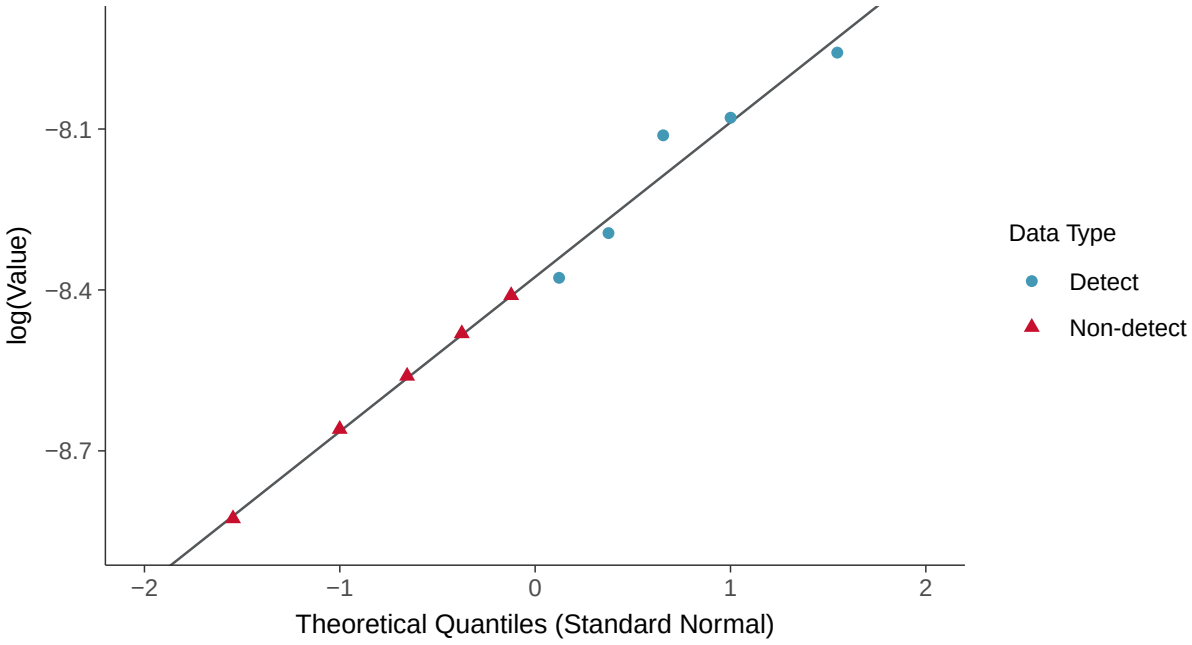
Normal Q-Q plot using ROS Imputed Estimates

Copper, MW-16 (mg/L)



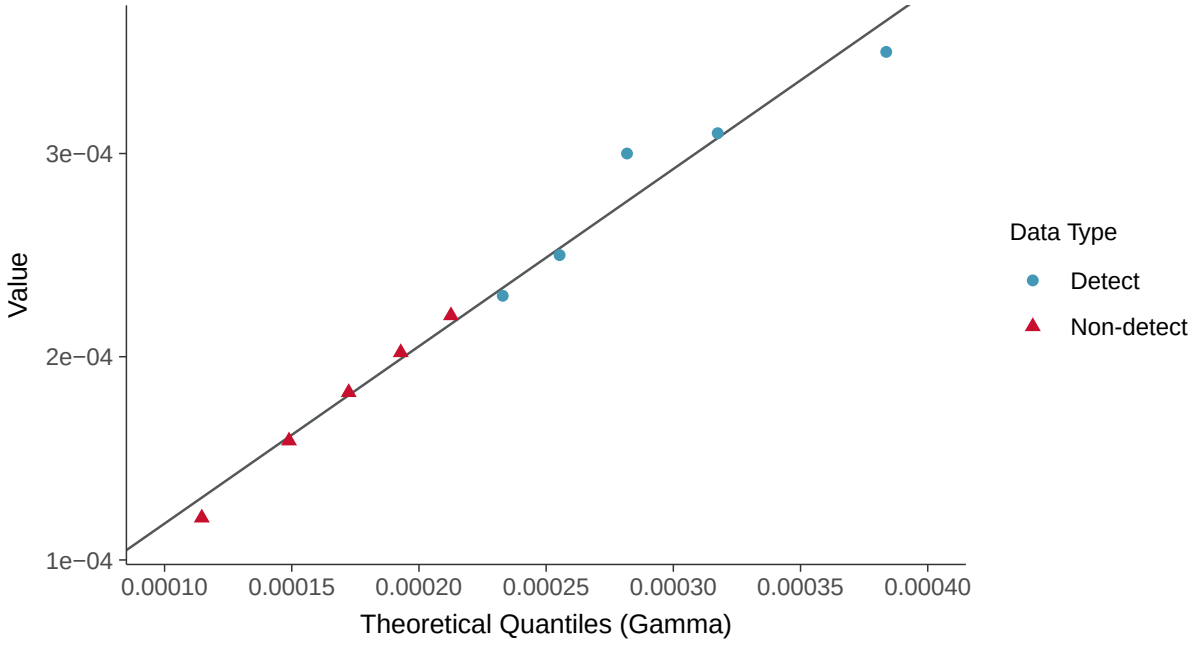
Lognormal Q-Q plot using ROS Imputed Estimates

Copper, MW-16 (mg/L)



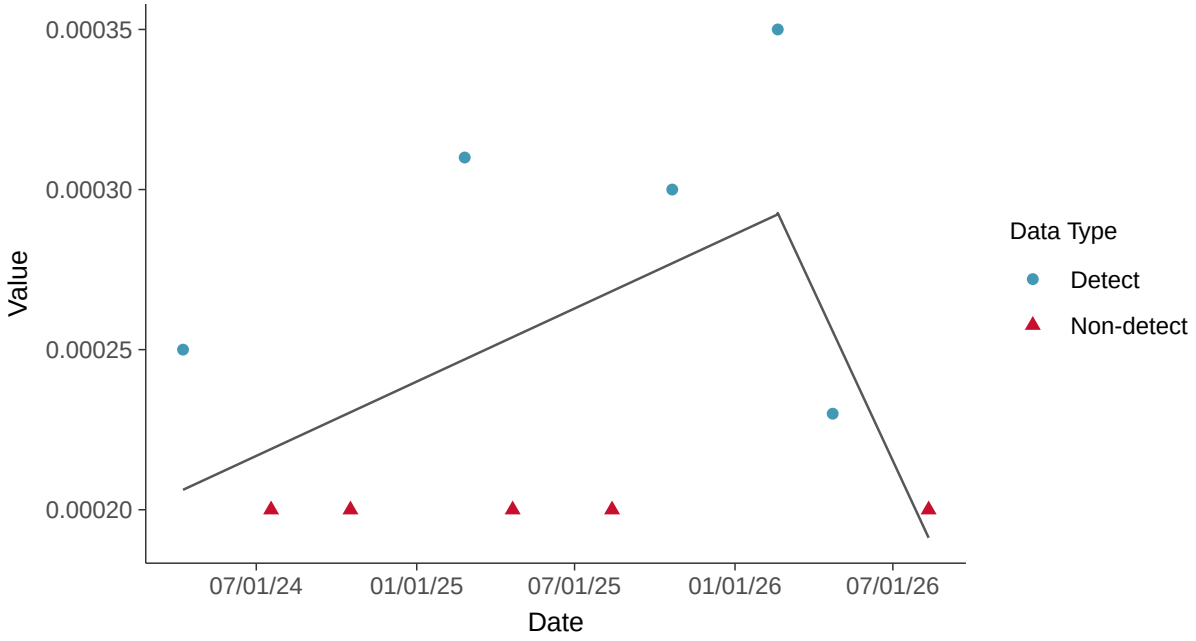
Gamma Q-Q plot using ROS Imputed Estimates

Copper, MW-16 (mg/L)



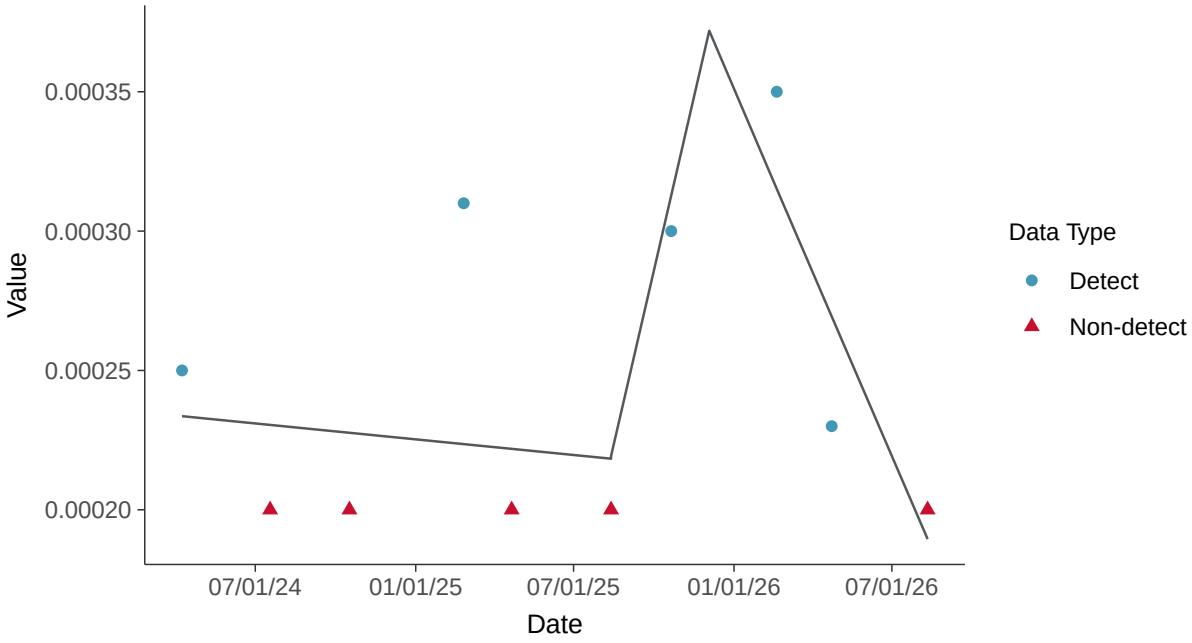
Trend Regression: Piecewise Linear-Linear

Copper, MW-16 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Copper, MW-16 (mg/L)

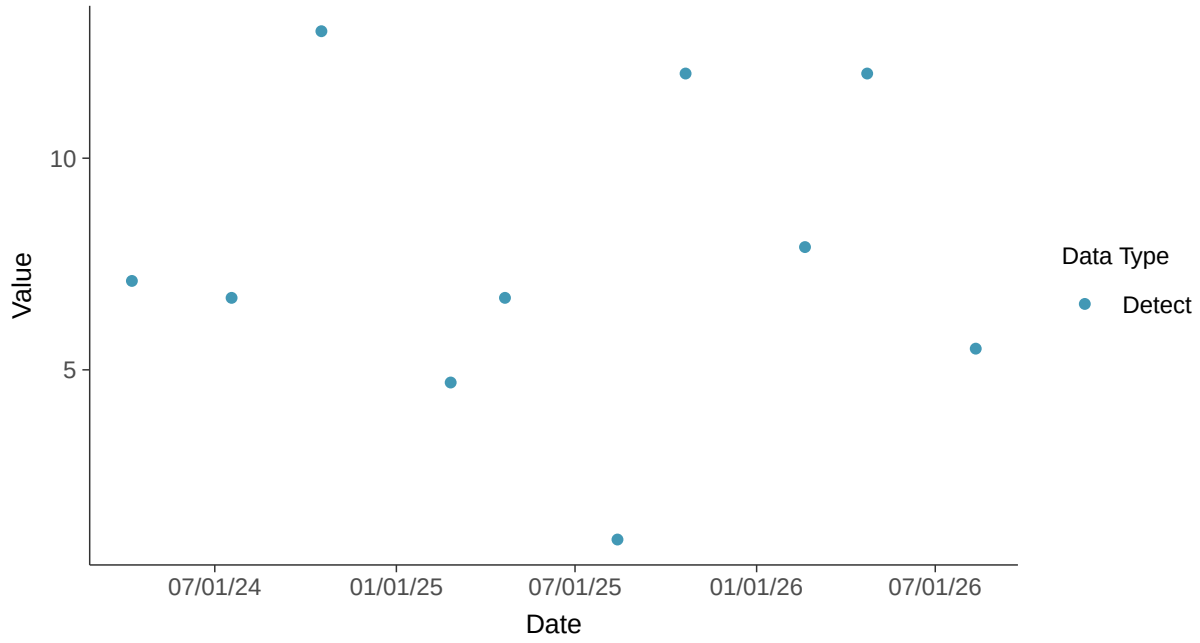


Part 115: Iron, MW-16

ID: 26_1_5_114

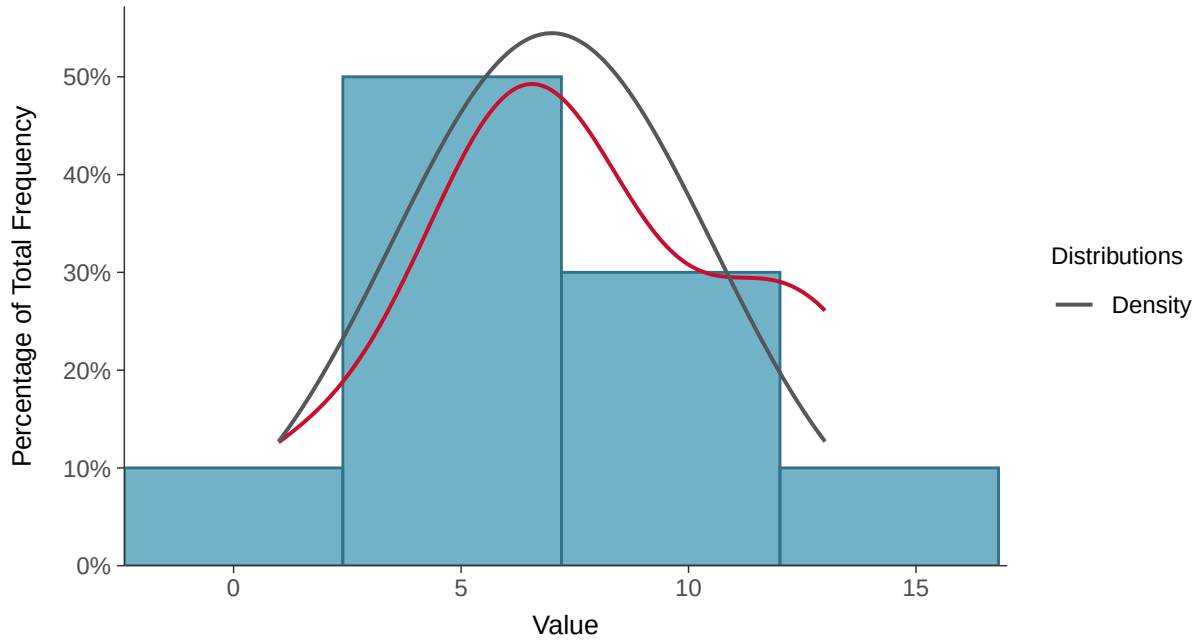
Scatter Plot

Iron, MW-16 (mg/L)



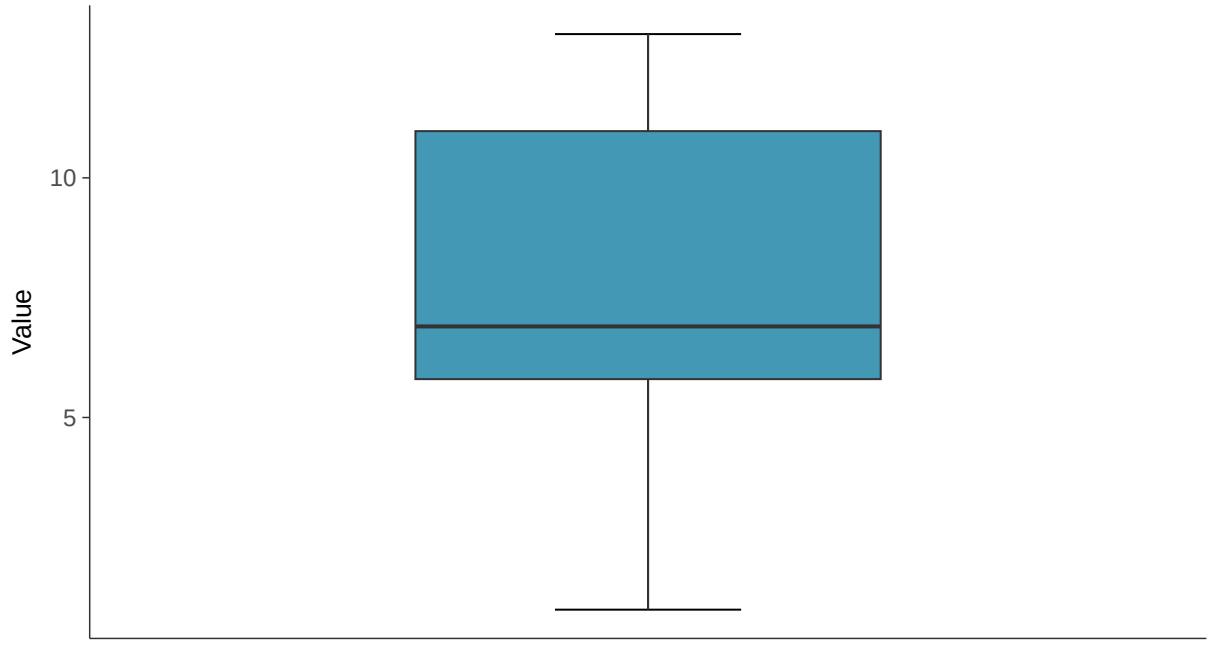
Histogram

Iron, MW-16 (mg/L)



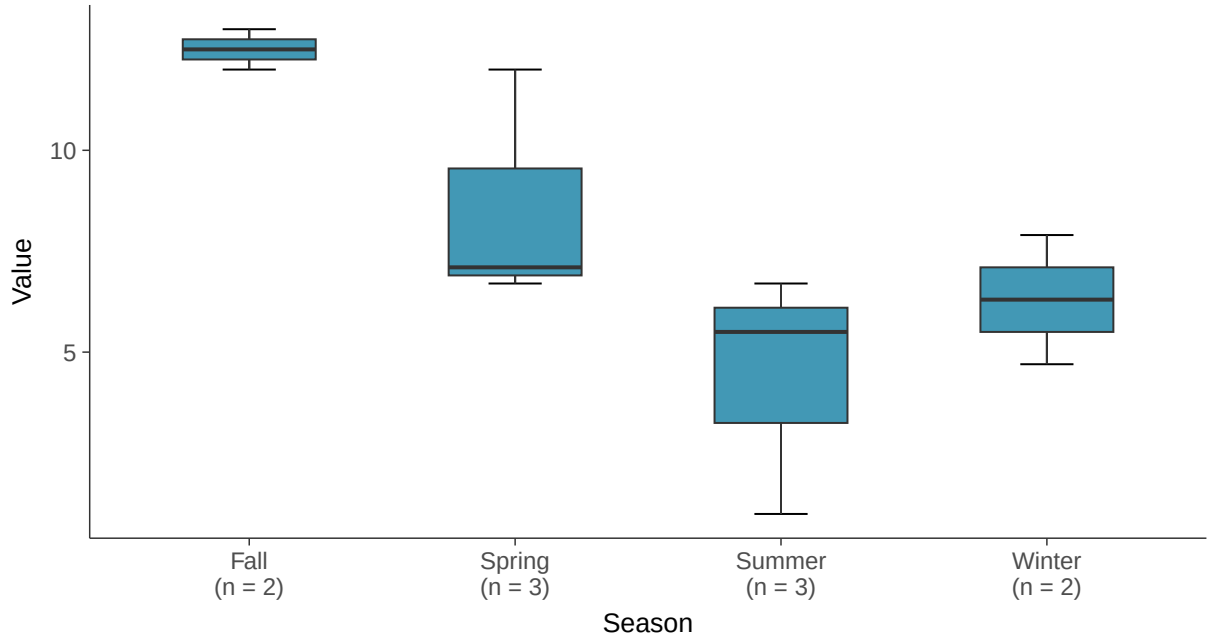
Boxplot

Iron, MW-16 (mg/L)



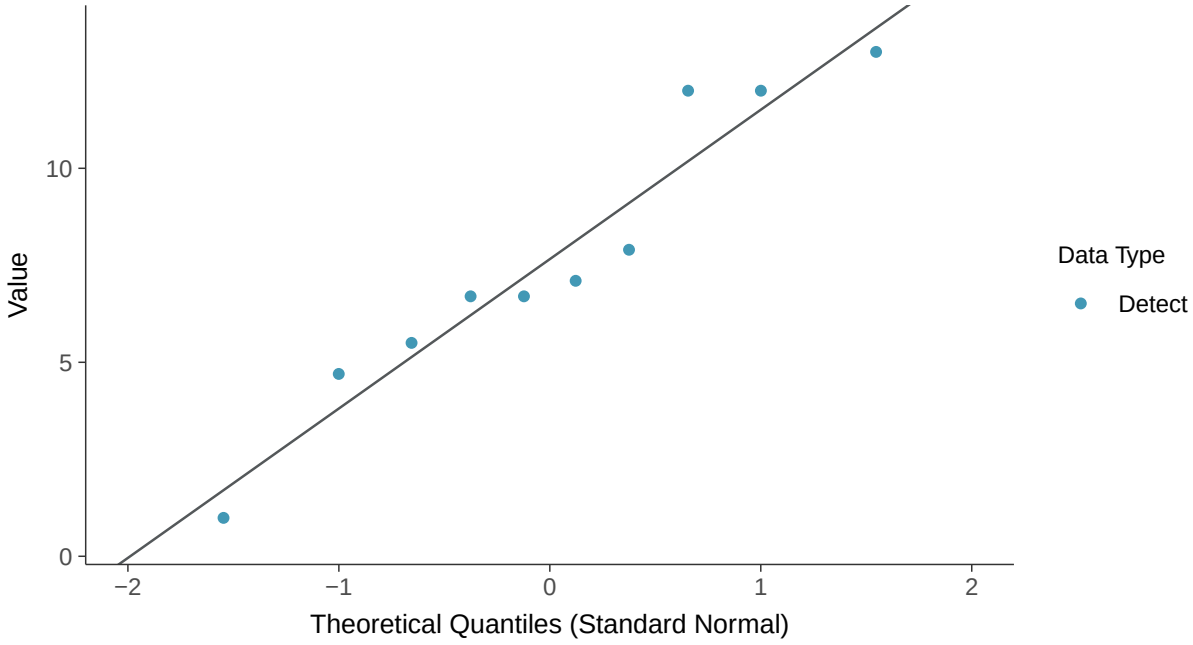
Boxplot by Season

Iron, MW-16 (mg/L)



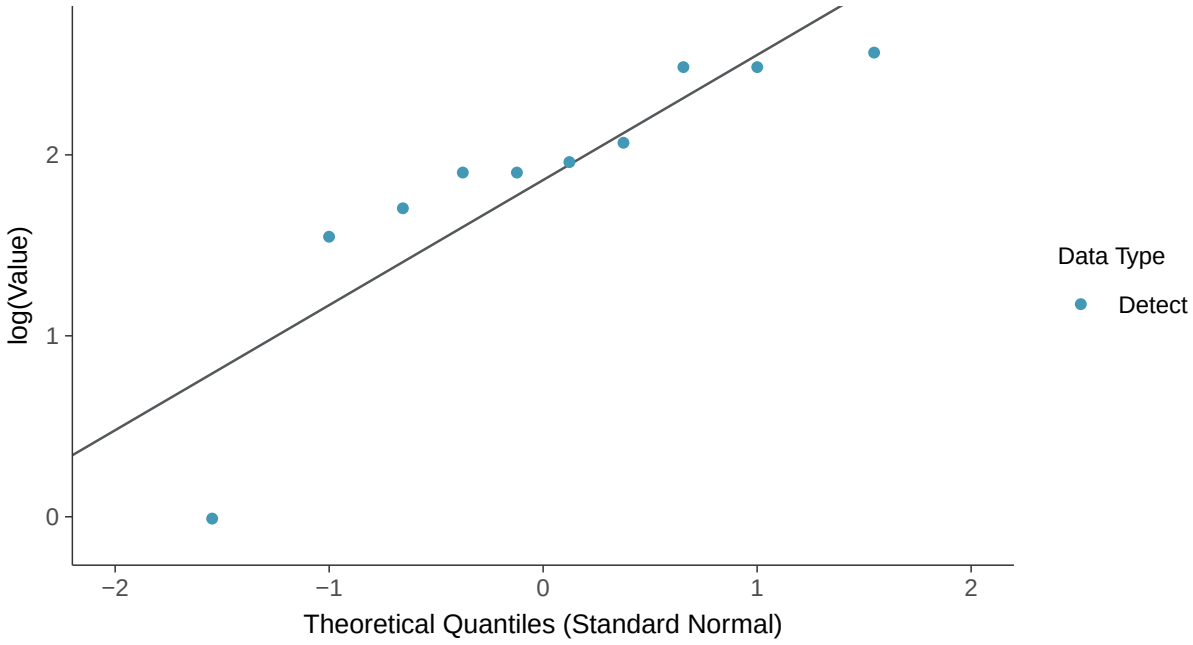
Normal Q-Q plot

Iron, MW-16 (mg/L)



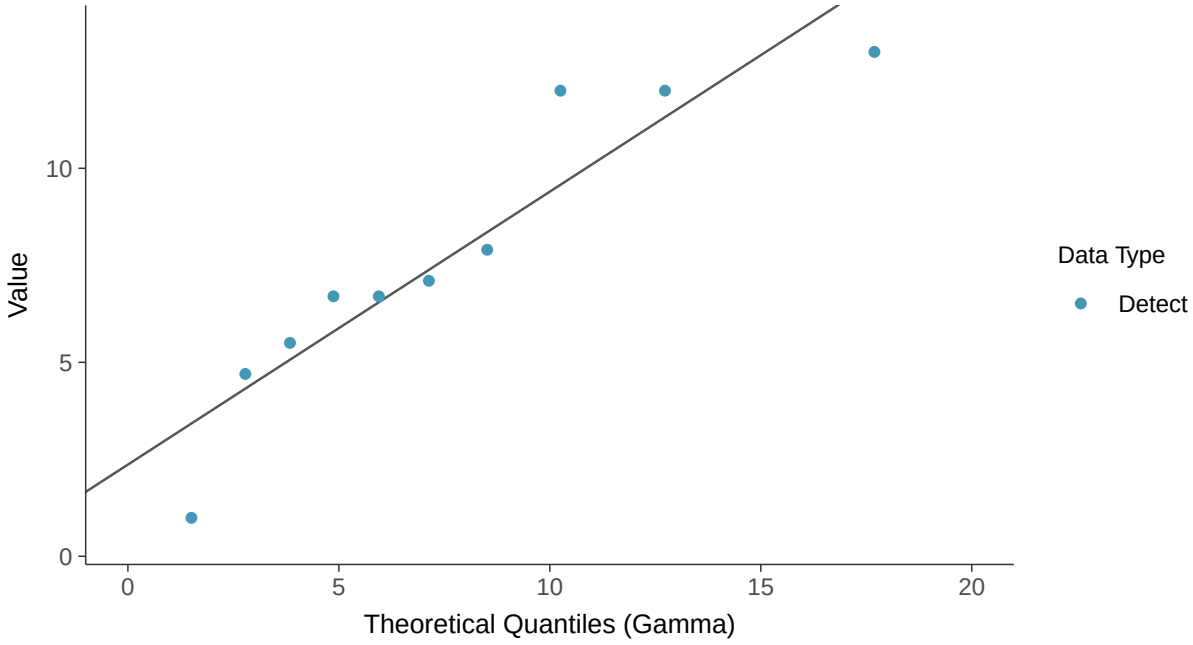
Lognormal Q-Q plot

Iron, MW-16 (mg/L)



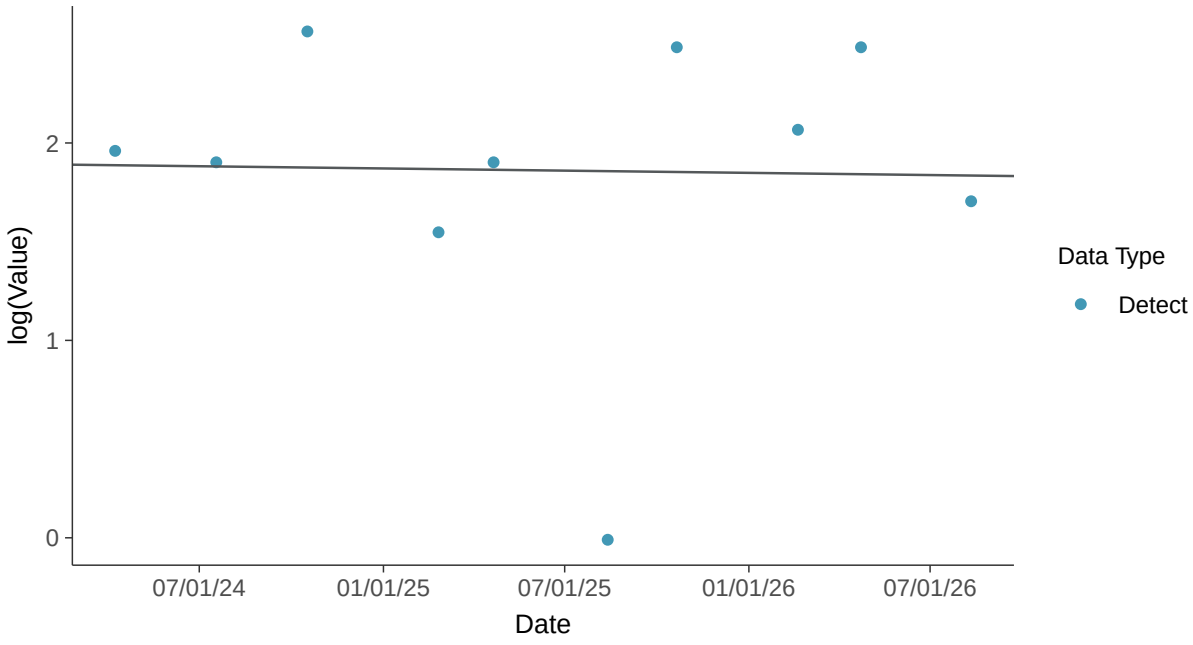
Gamma Q-Q plot

Iron, MW-16 (mg/L)



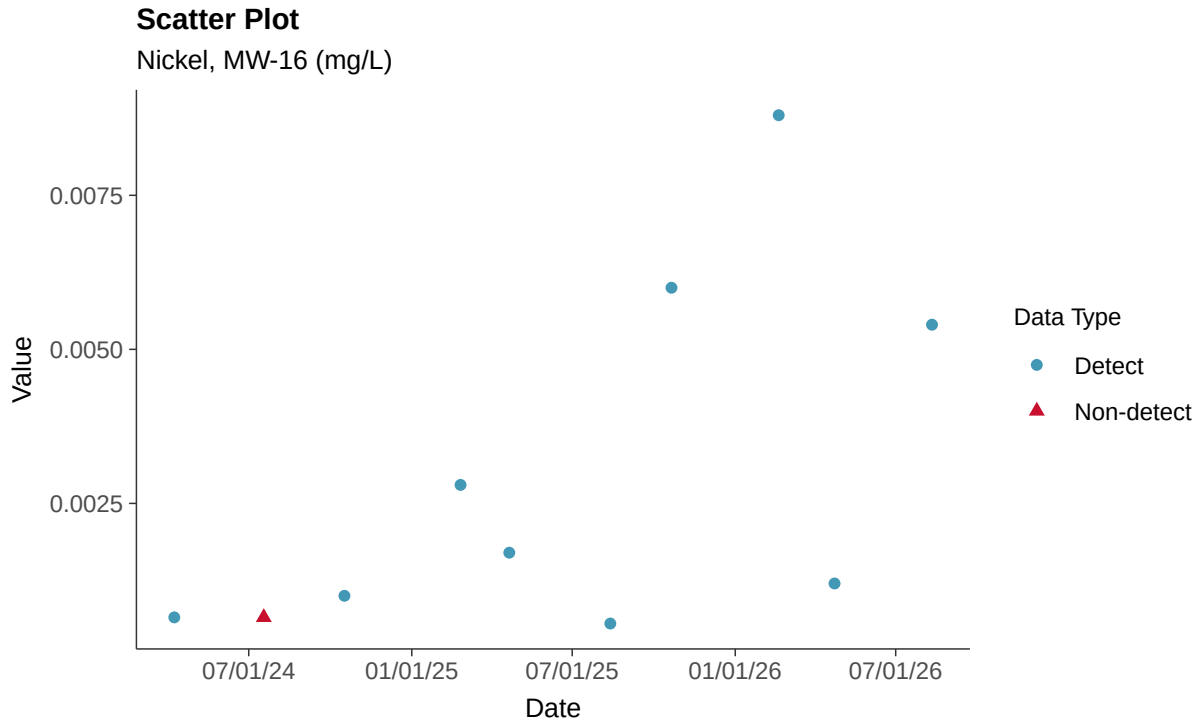
Trend Regression: Lognormal MLE

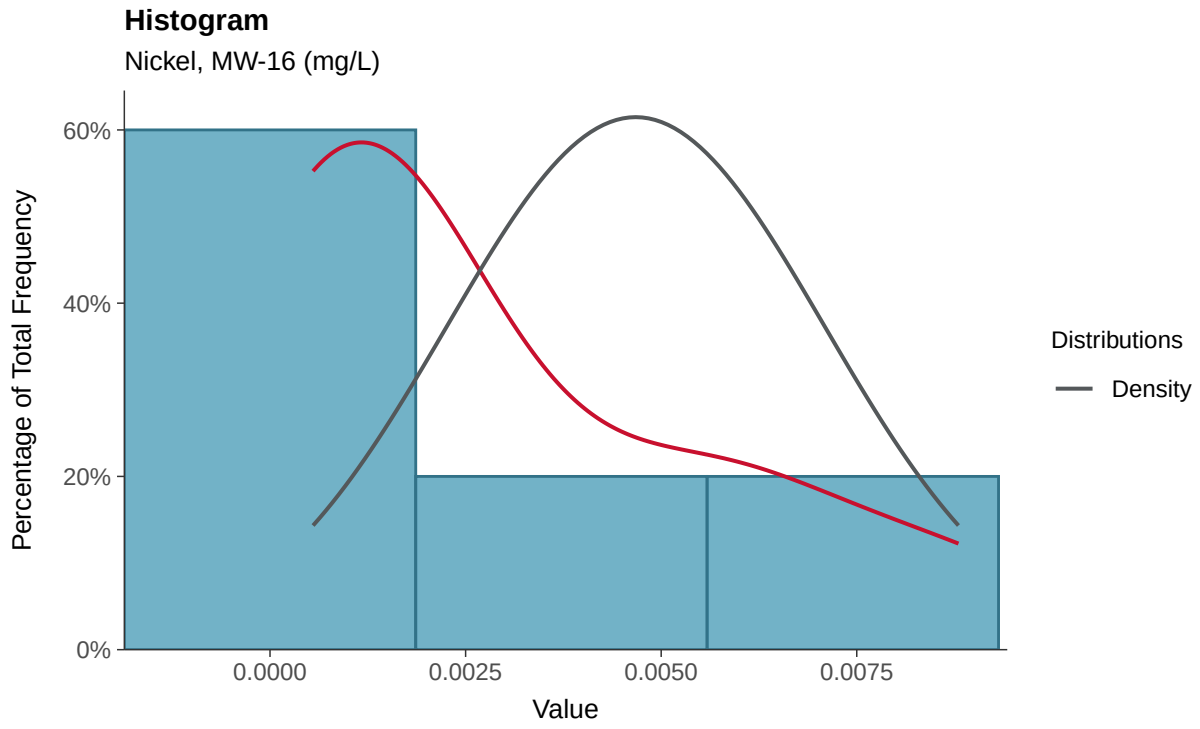
Iron, MW-16 (mg/L)



Part 115: Nickel, MW-16

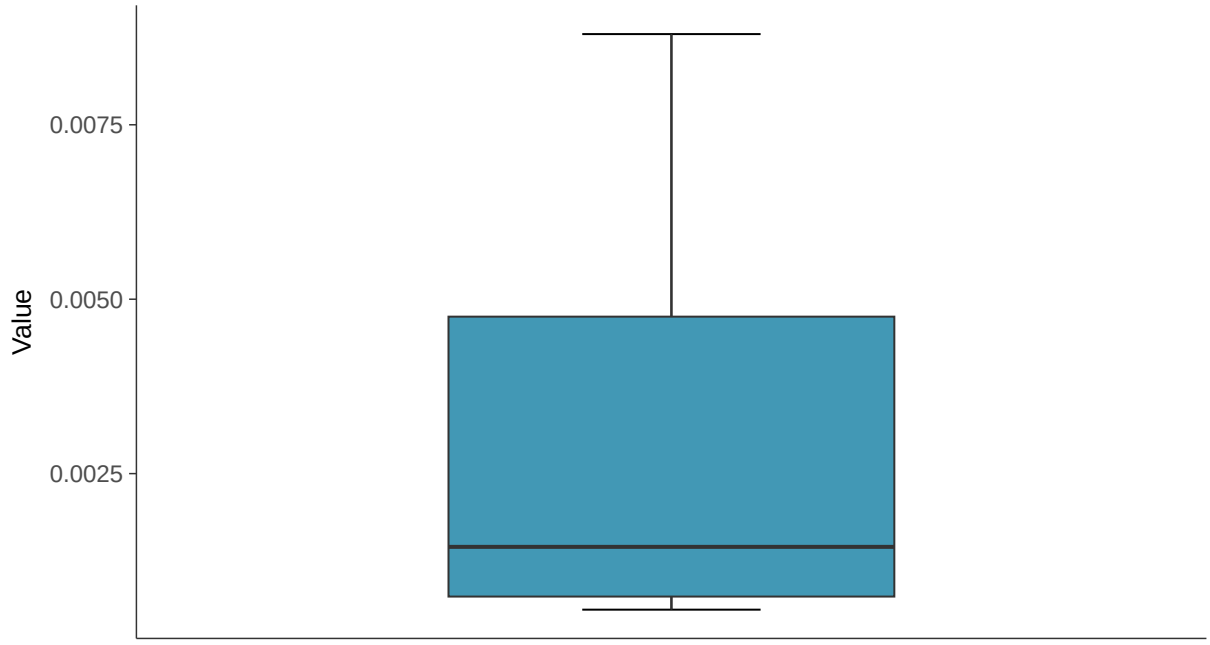
ID: 26_1_5_119





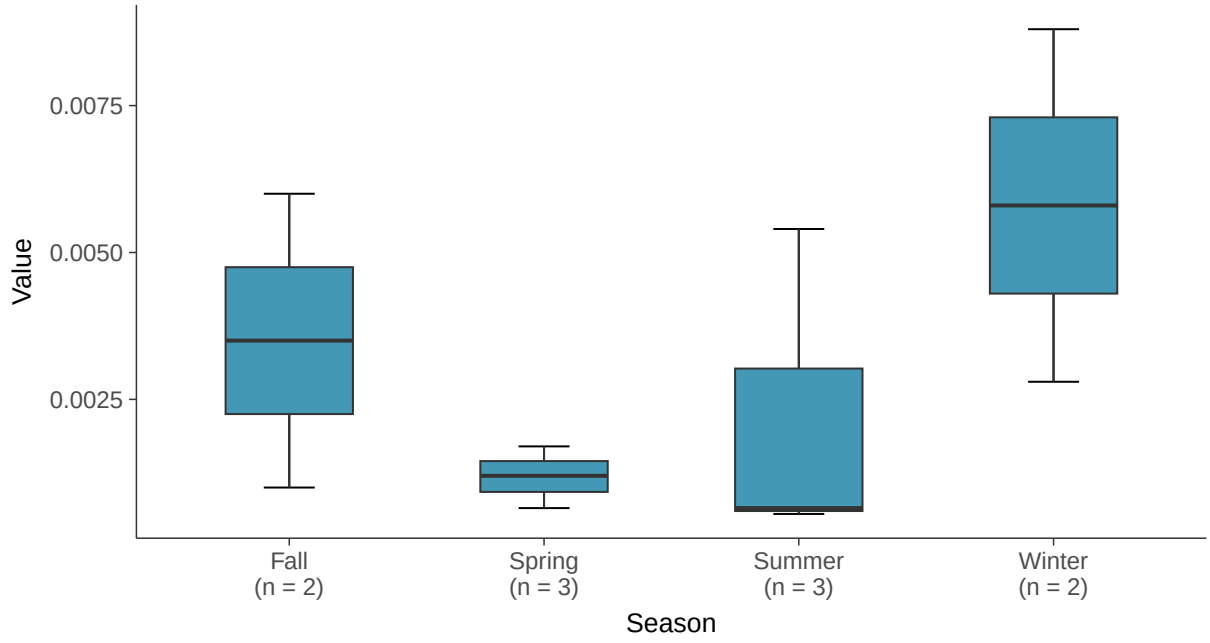
Boxplot

Nickel, MW-16 (mg/L)



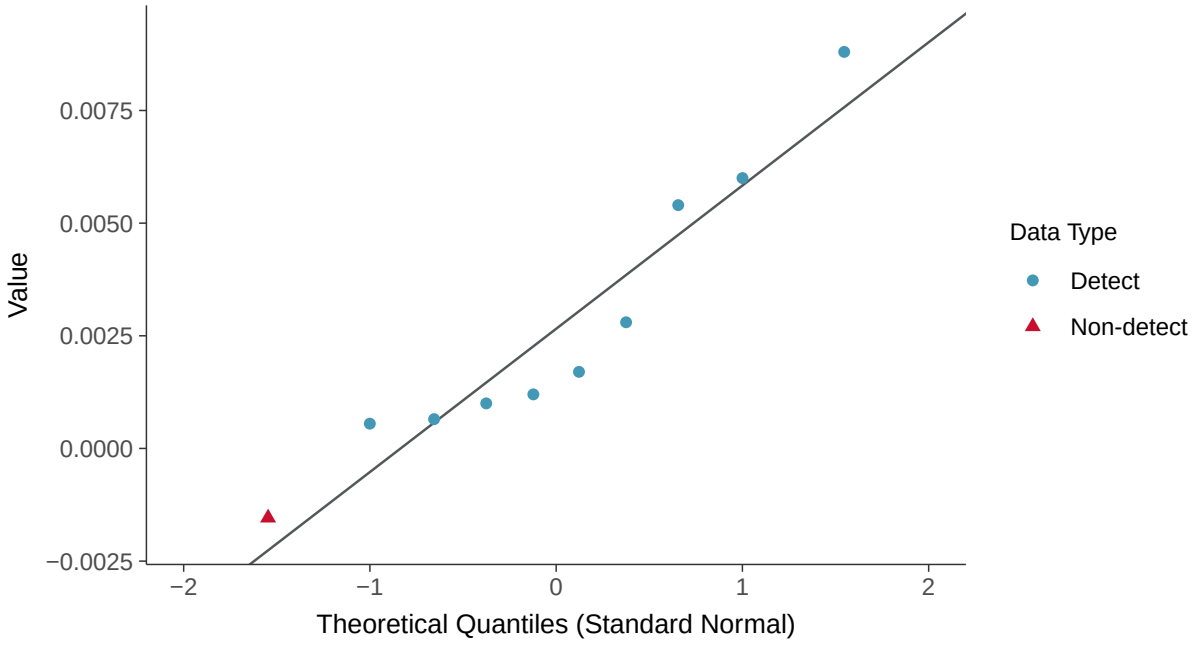
Boxplot by Season

Nickel, MW-16 (mg/L)



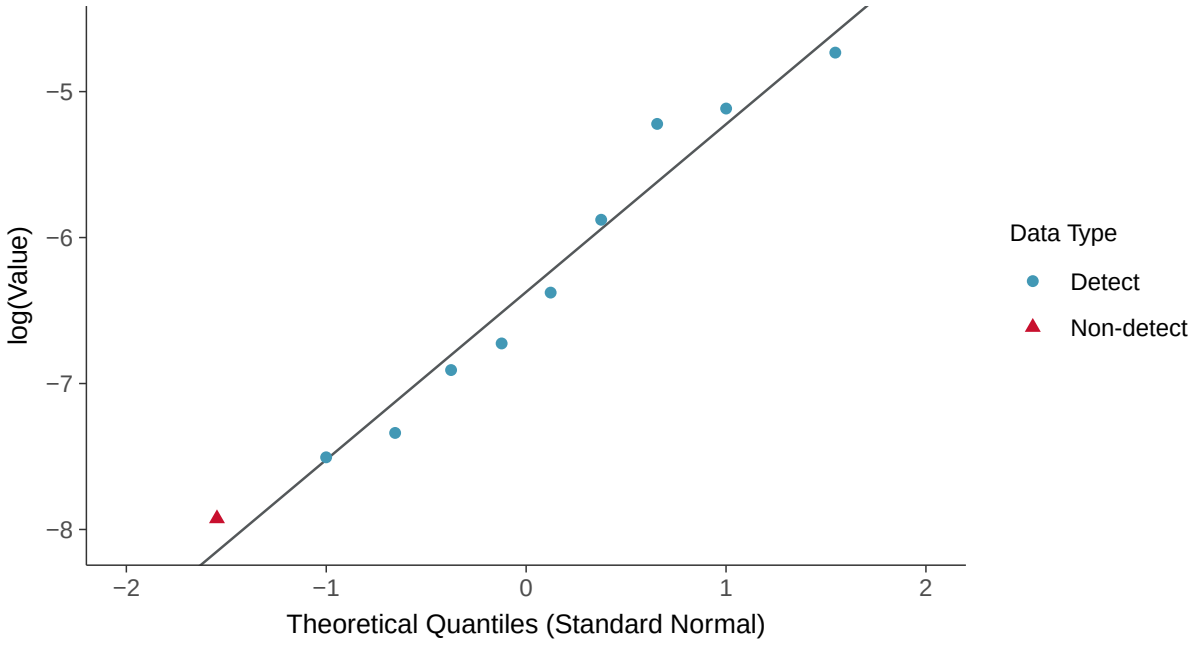
Normal Q-Q plot using ROS Imputed Estimates

Nickel, MW-16 (mg/L)



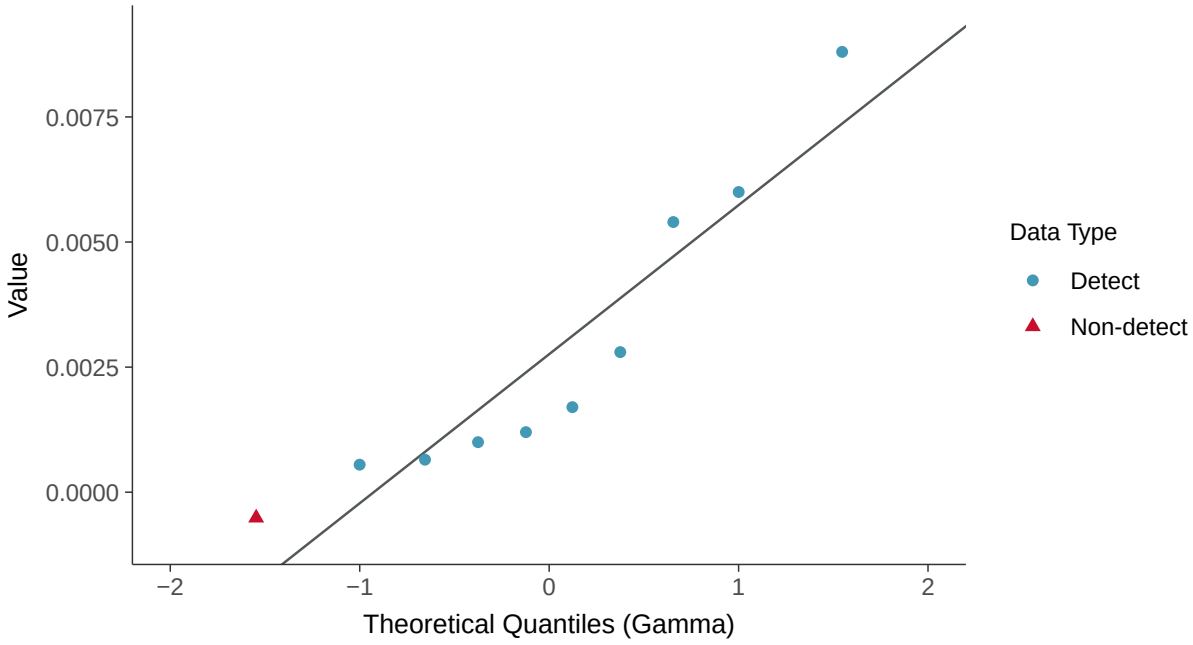
Lognormal Q-Q plot using ROS Imputed Estimates

Nickel, MW-16 (mg/L)



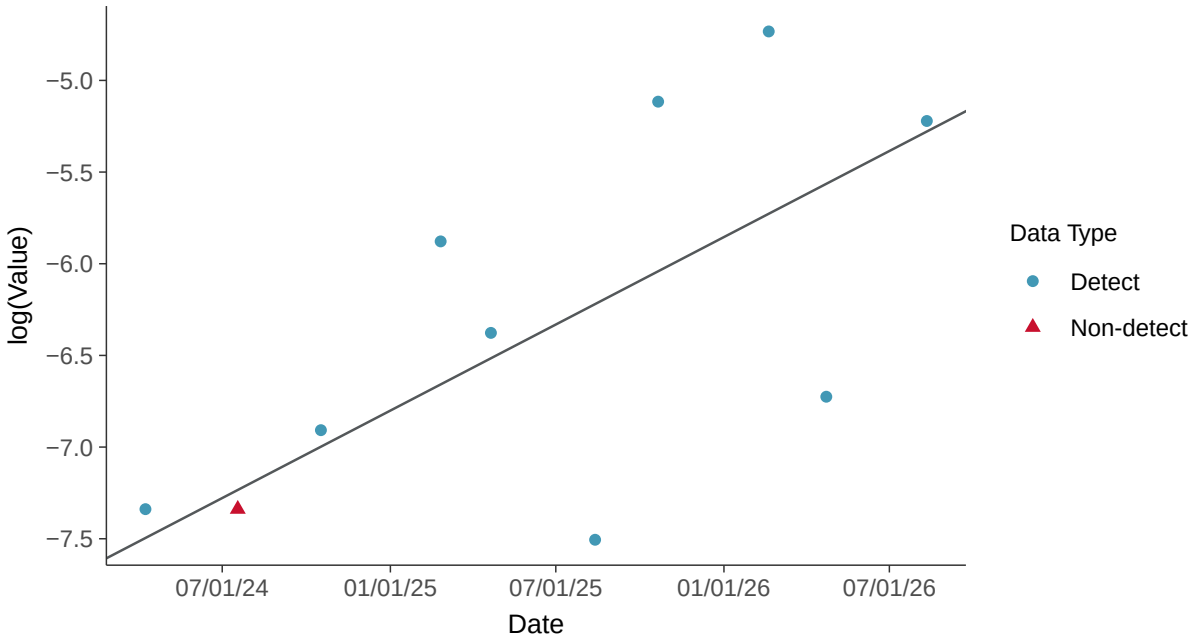
Gamma Q-Q plot using ROS Imputed Estimates

Nickel, MW-16 (mg/L)



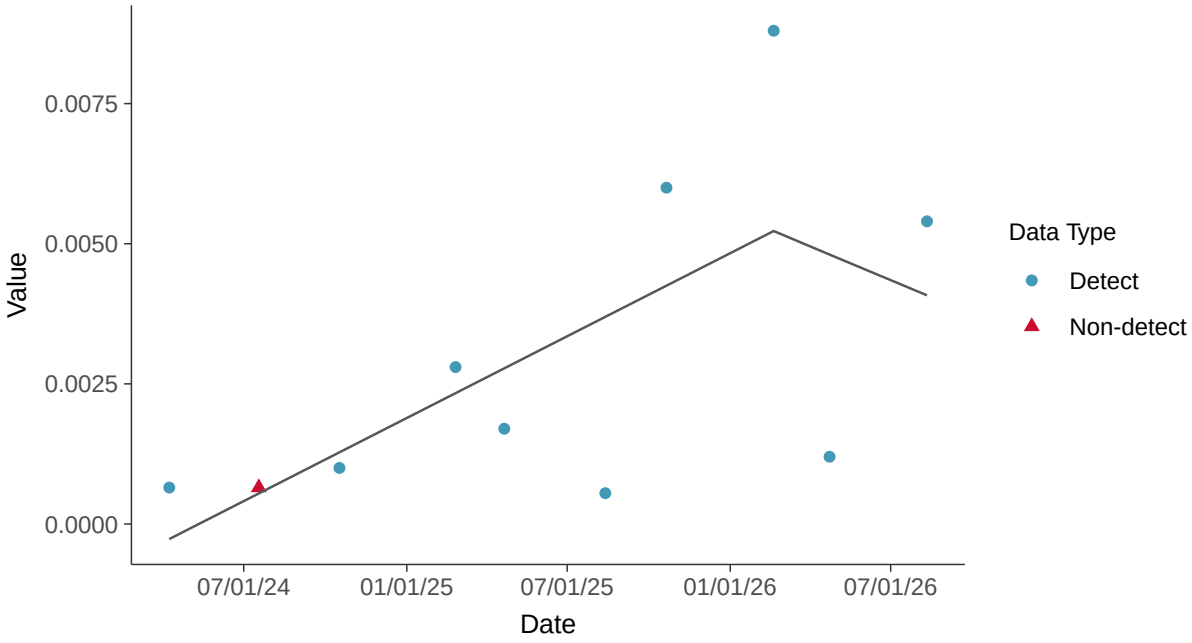
Trend Regression: Lognormal MLE

Nickel, MW-16 (mg/L)



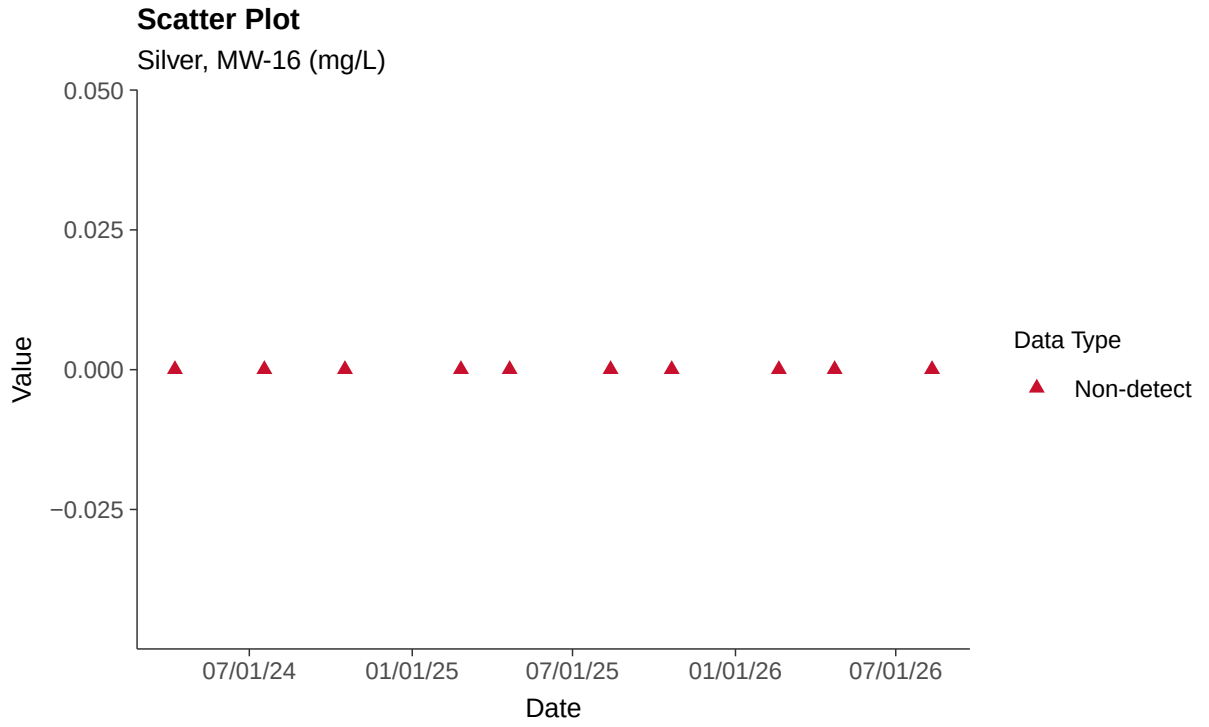
Trend Regression: Piecewise Linear-Linear

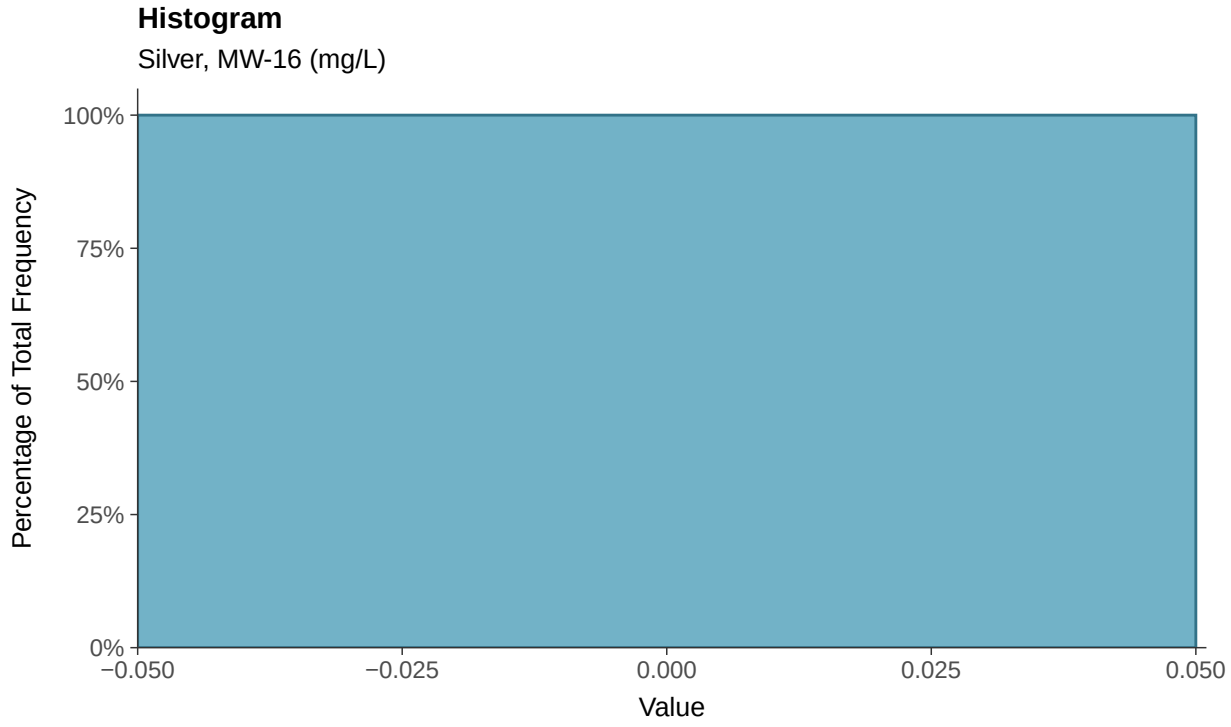
Nickel, MW-16 (mg/L)



Part 115: Silver, MW-16

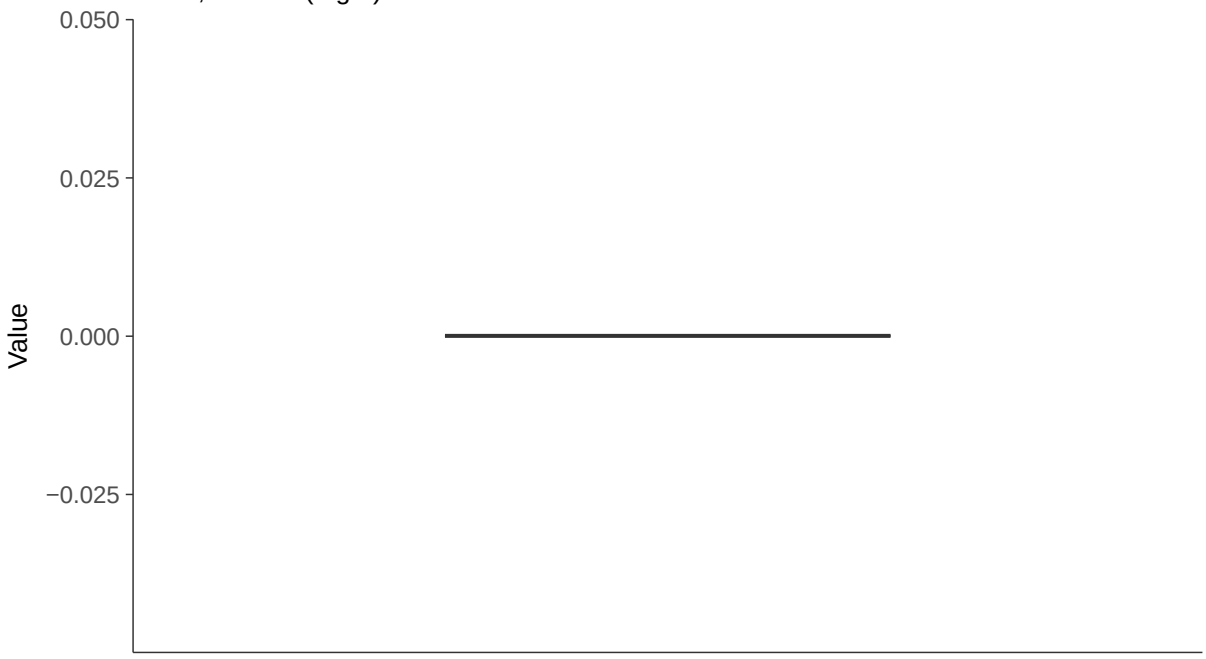
ID: 26_1_5_123





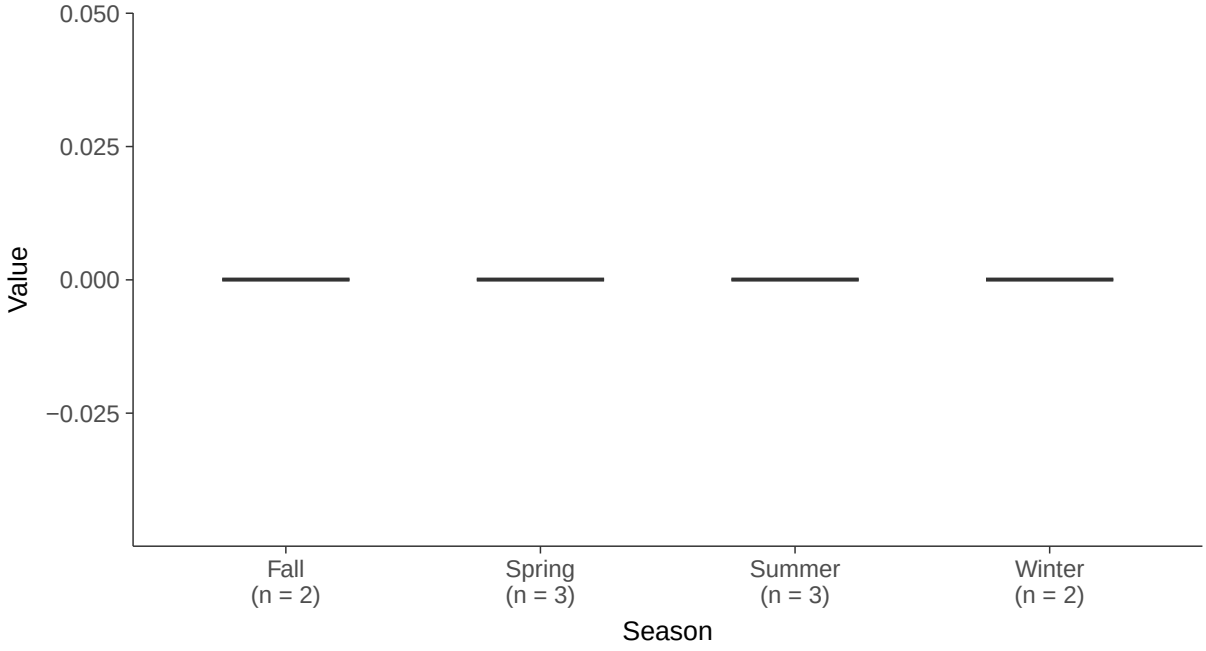
Boxplot

Silver, MW-16 (mg/L)



Boxplot by Season

Silver, MW-16 (mg/L)

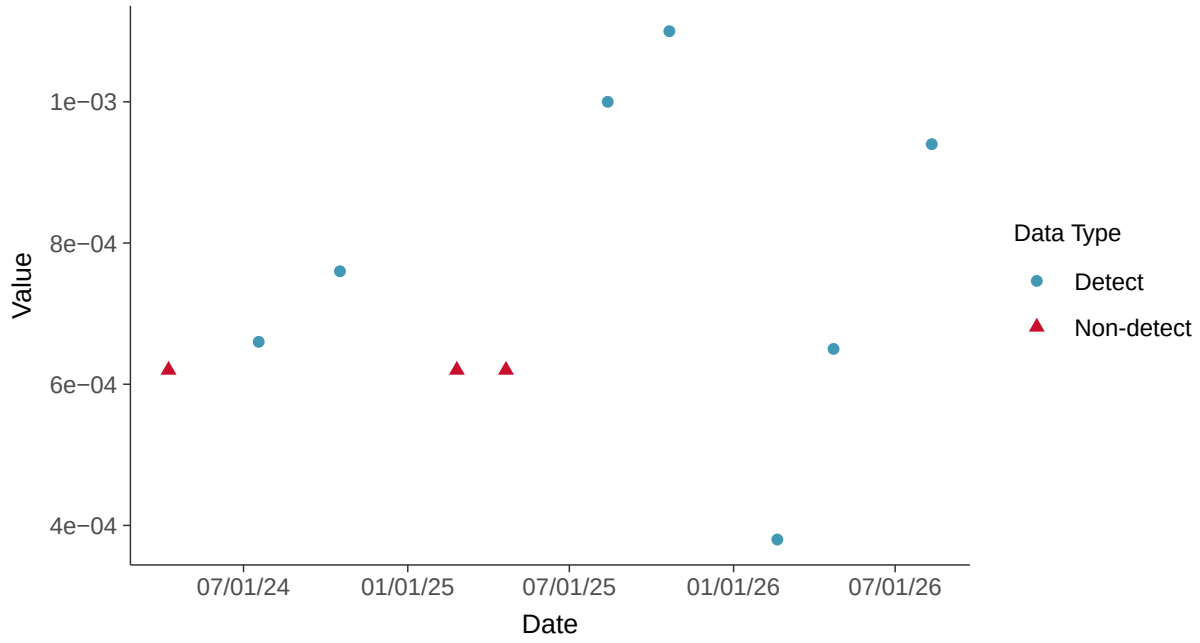


Part 115: Vanadium, MW-16

ID: 26_1_5_128

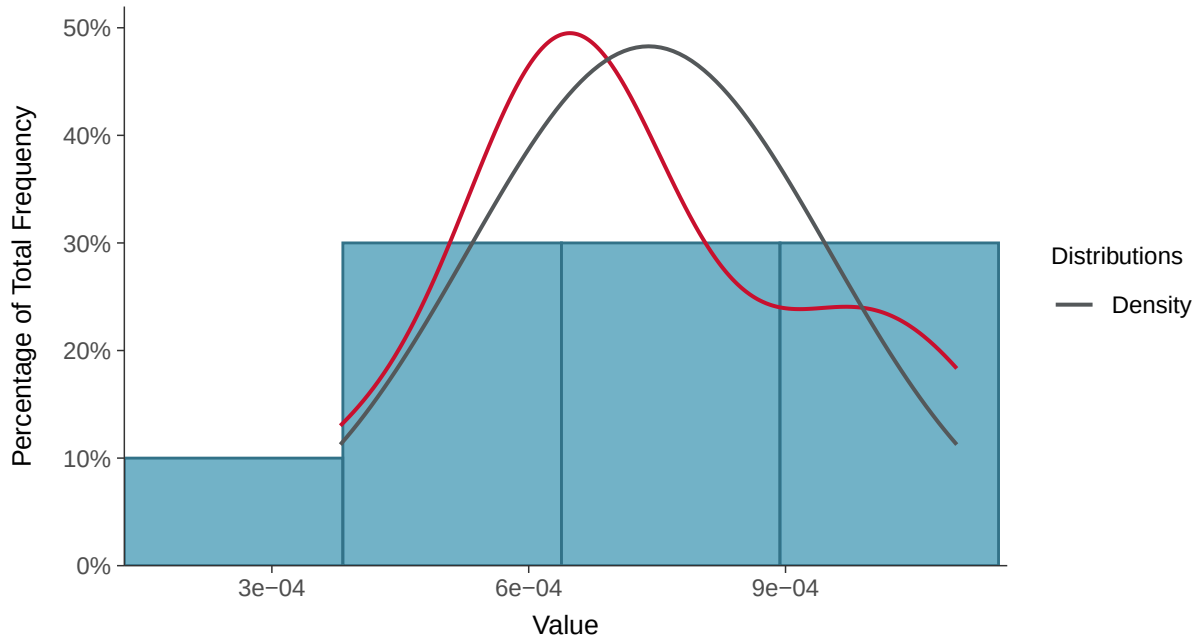
Scatter Plot

Vanadium, MW-16 (mg/L)



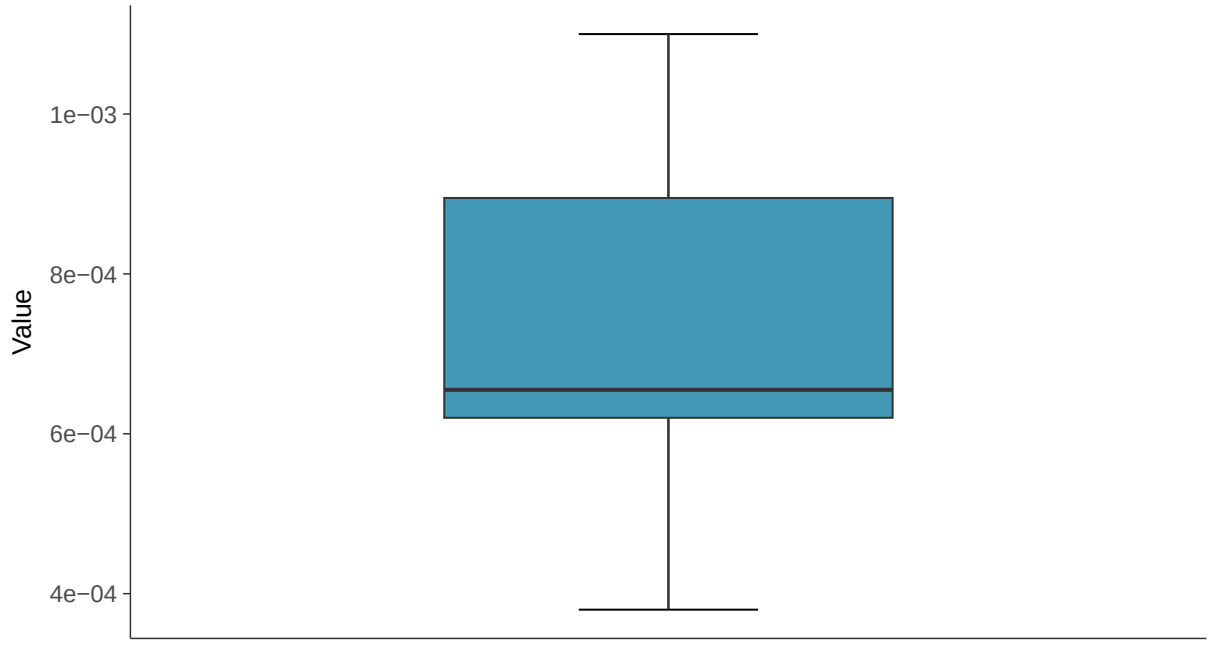
Histogram

Vanadium, MW-16 (mg/L)



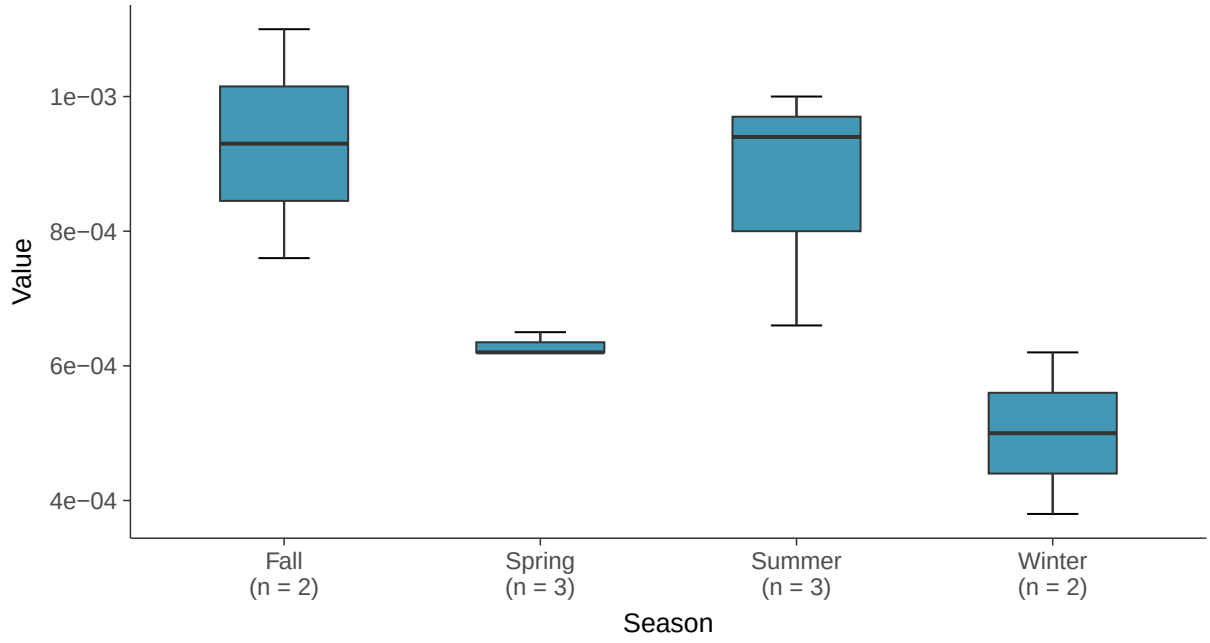
Boxplot

Vanadium, MW-16 (mg/L)



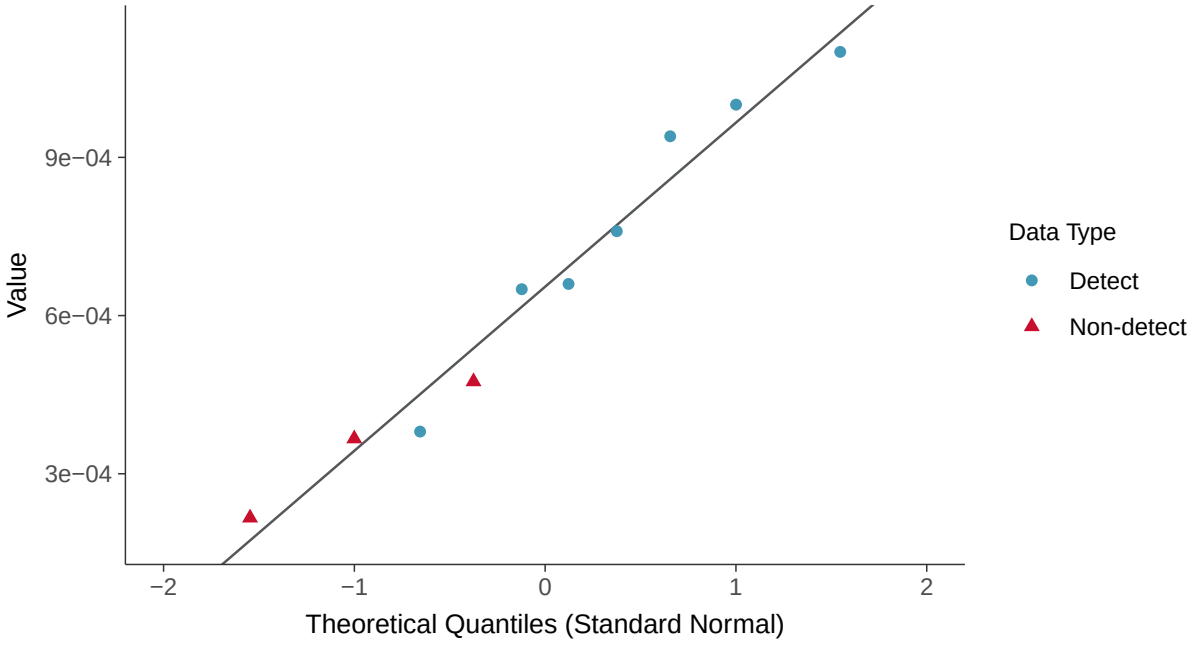
Boxplot by Season

Vanadium, MW-16 (mg/L)



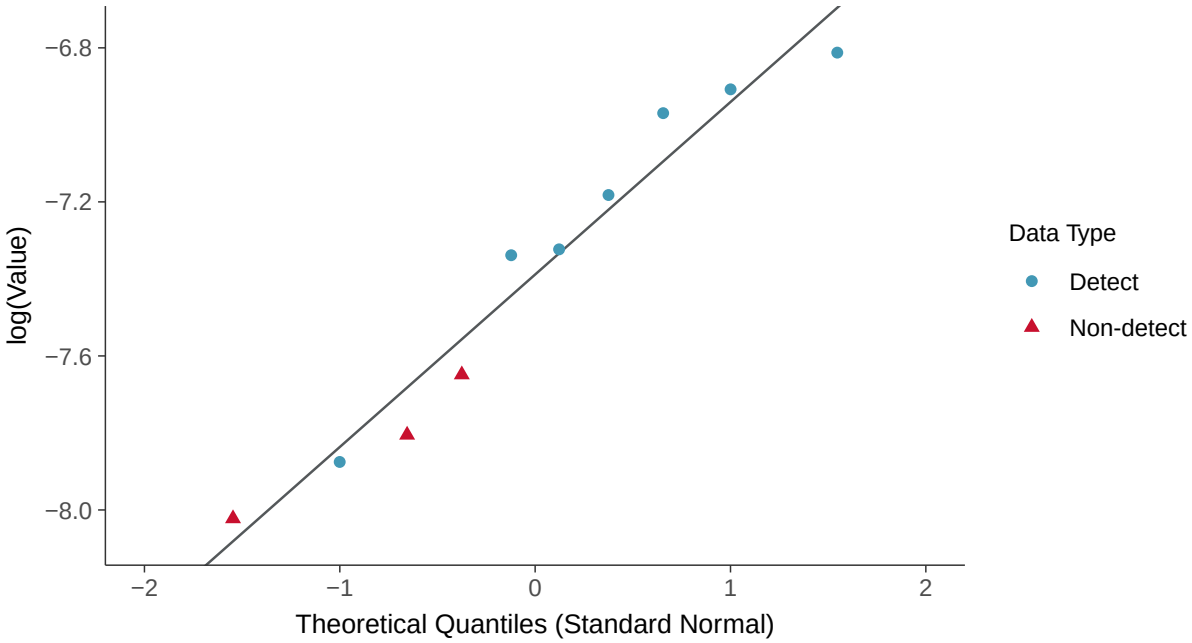
Normal Q-Q plot using ROS Imputed Estimates

Vanadium, MW-16 (mg/L)



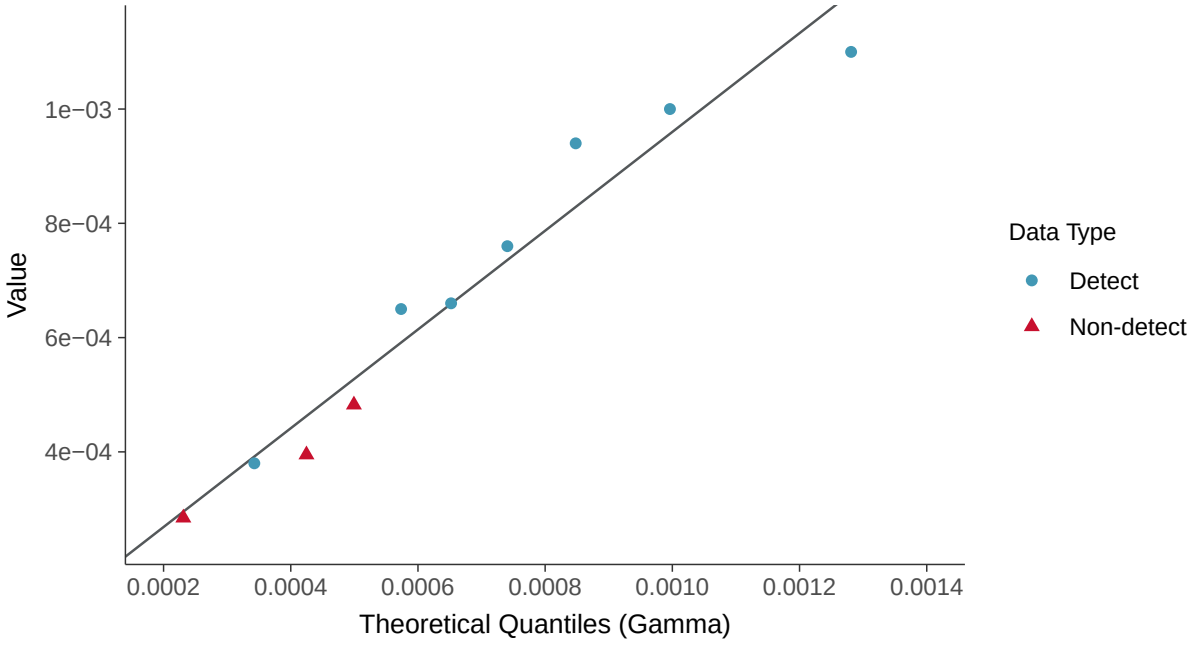
Lognormal Q-Q plot using ROS Imputed Estimates

Vanadium, MW-16 (mg/L)



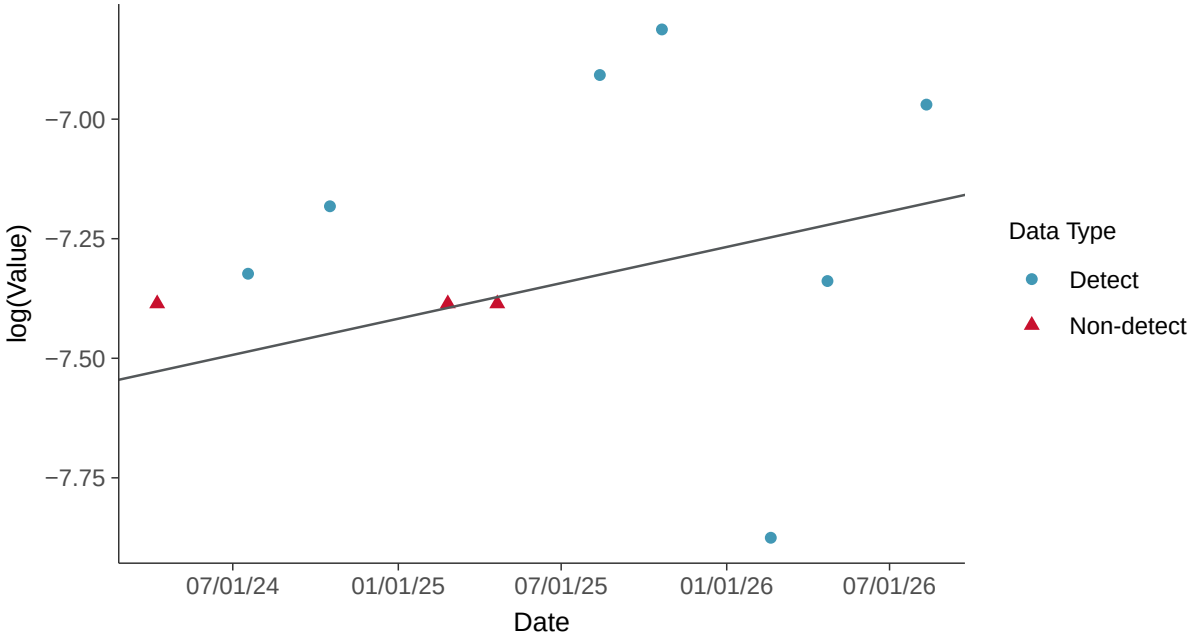
Gamma Q-Q plot using ROS Imputed Estimates

Vanadium, MW-16 (mg/L)



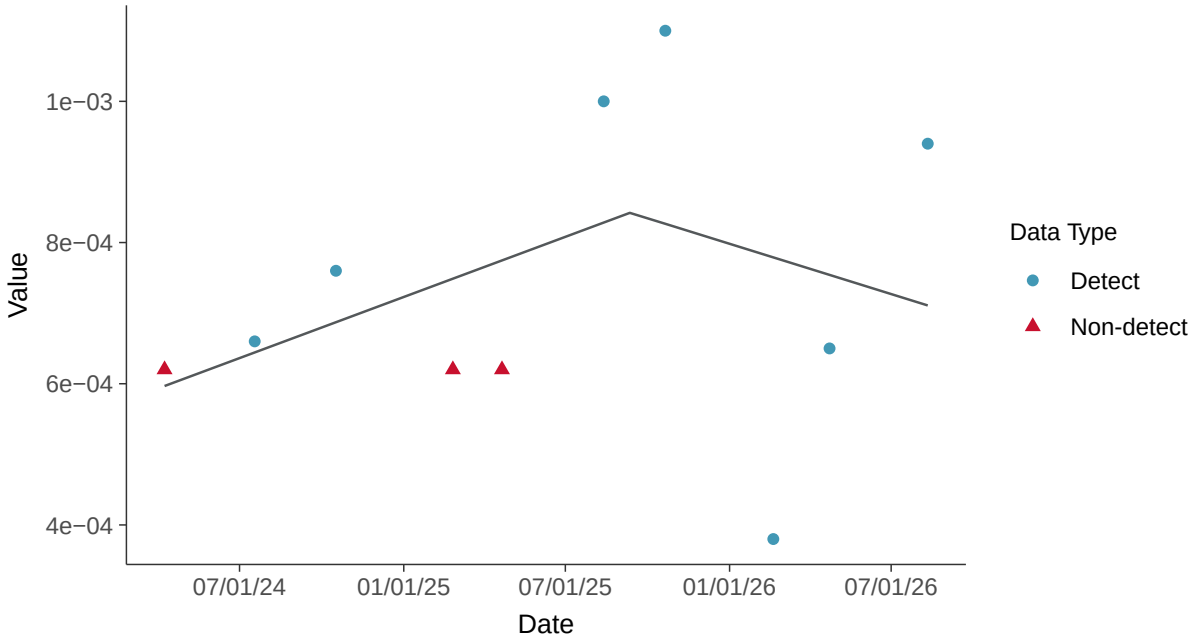
Trend Regression: Lognormal MLE

Vanadium, MW-16 (mg/L)



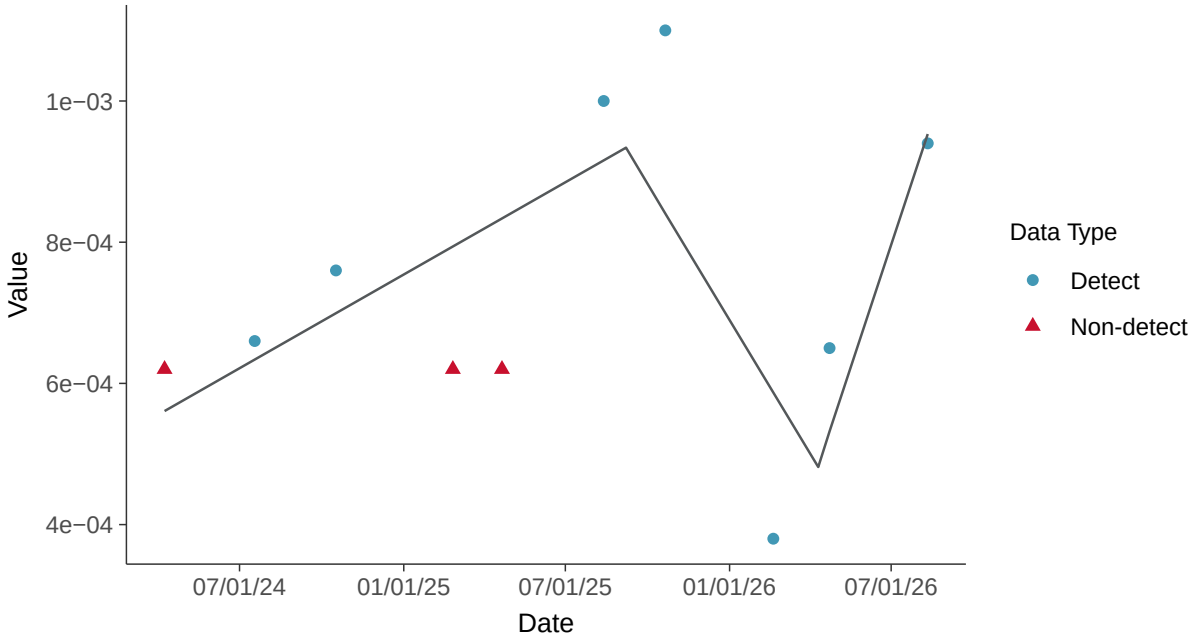
Trend Regression: Piecewise Linear-Linear

Vanadium, MW-16 (mg/L)



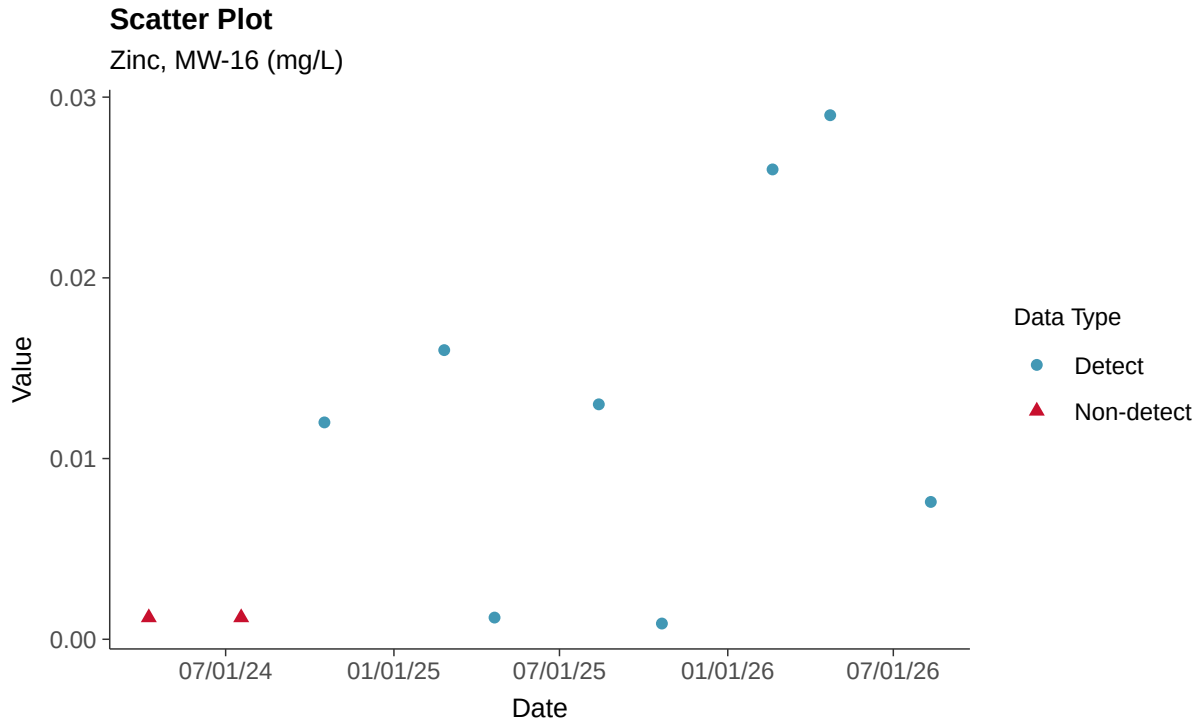
Trend Regression: Piecewise Linear-Linear-Linear

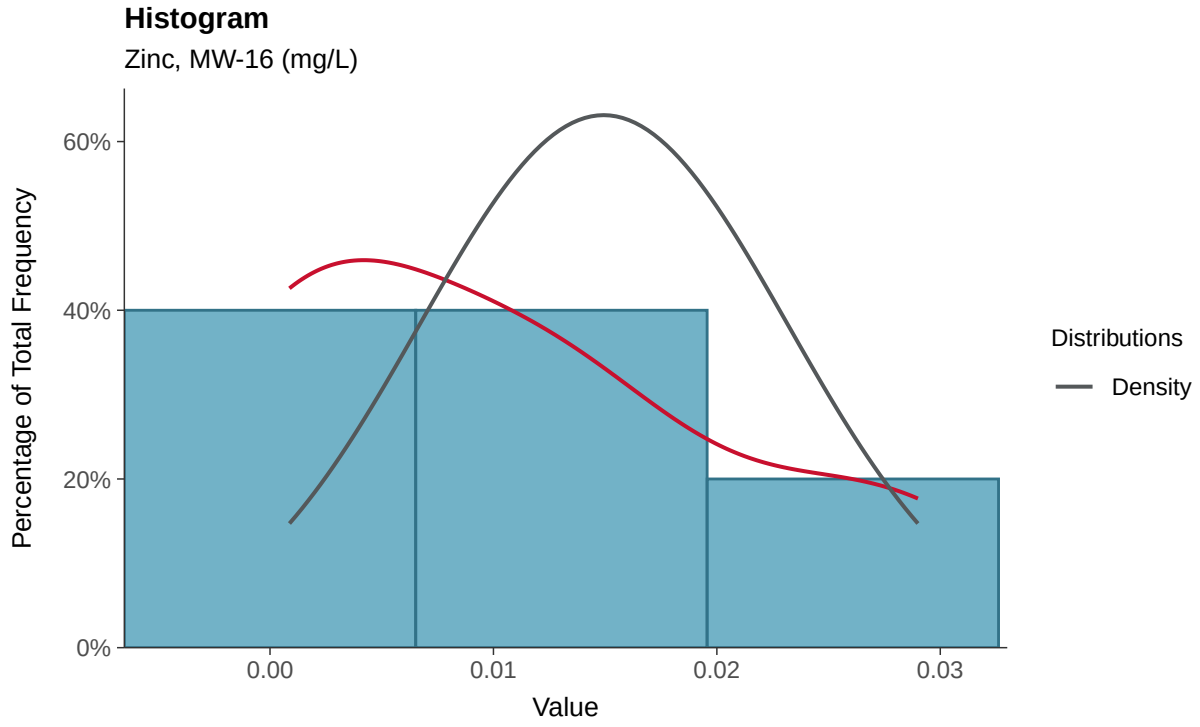
Vanadium, MW-16 (mg/L)



Part 115: Zinc, MW-16

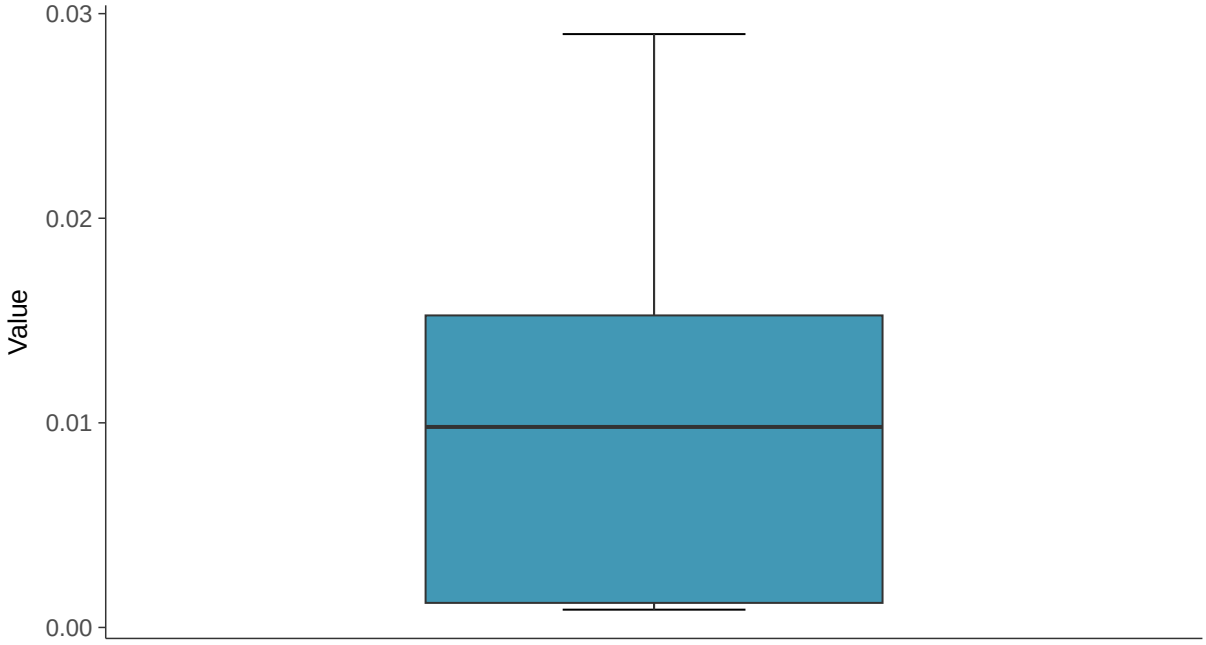
ID: 26_1_5_129





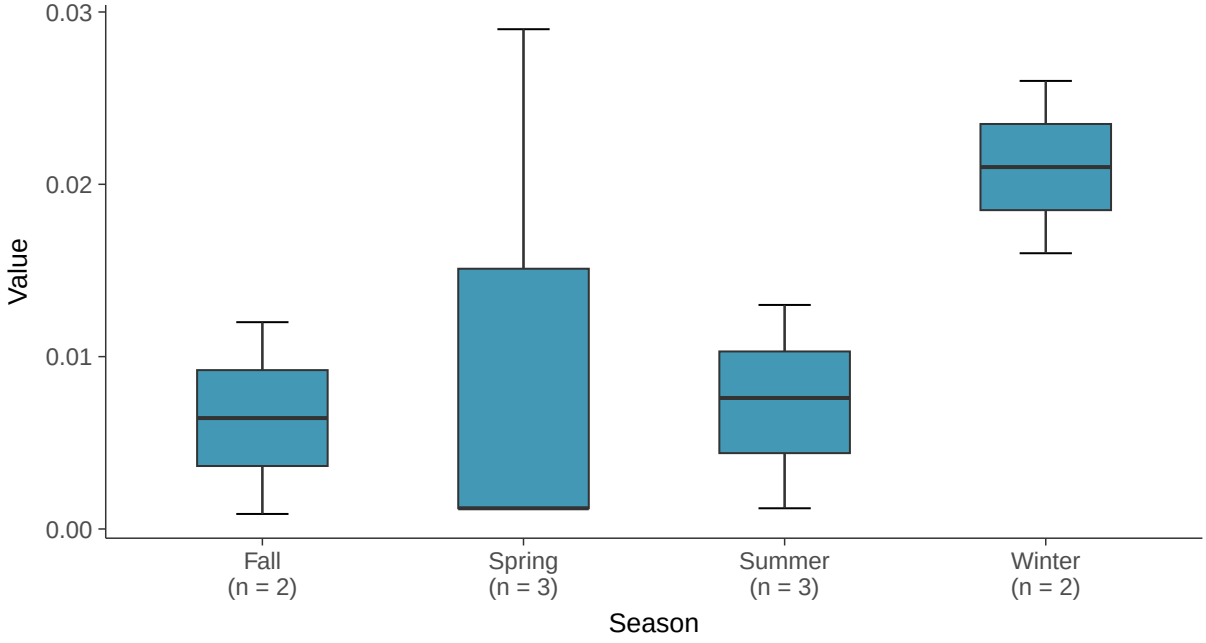
Boxplot

Zinc, MW-16 (mg/L)



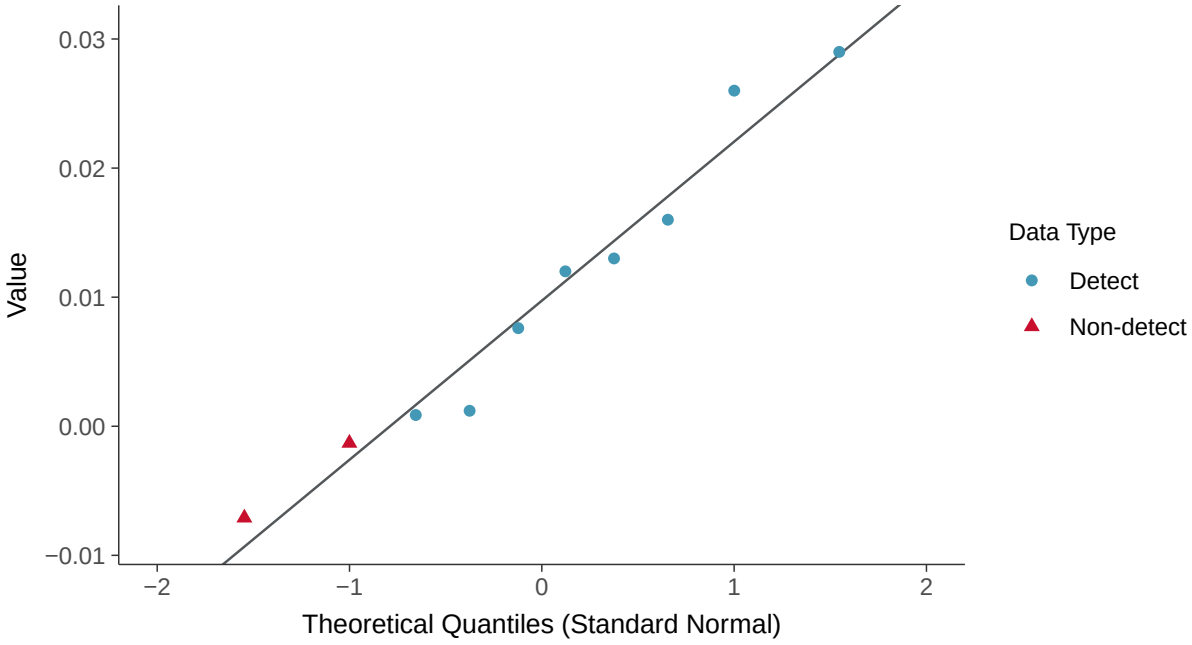
Boxplot by Season

Zinc, MW-16 (mg/L)



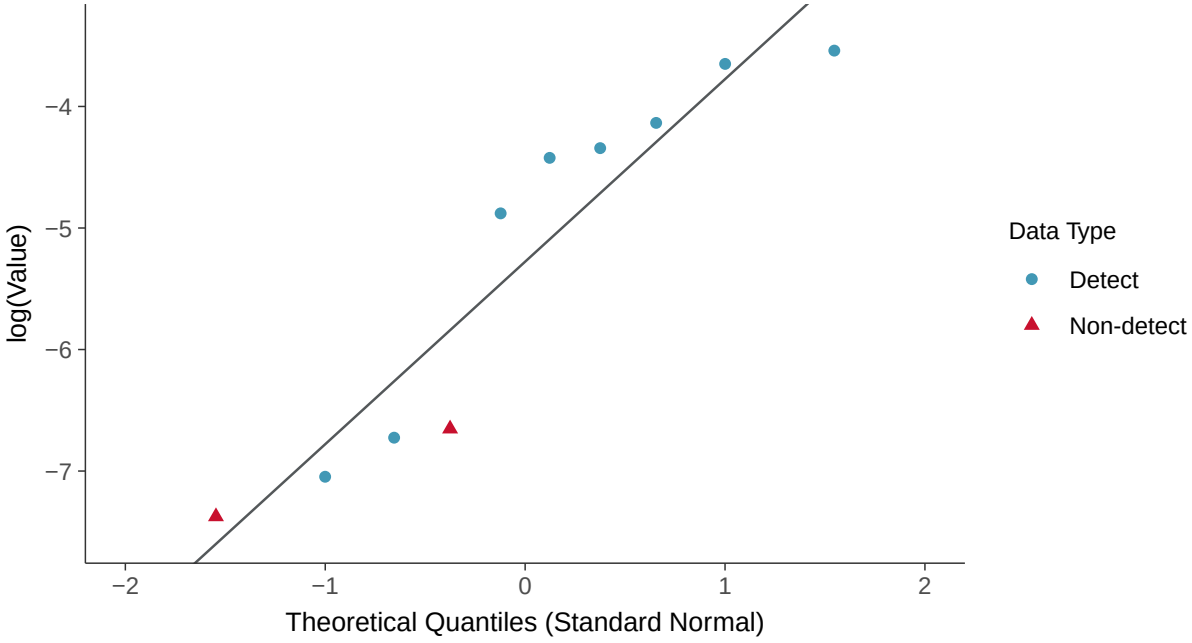
Normal Q-Q plot using ROS Imputed Estimates

Zinc, MW-16 (mg/L)



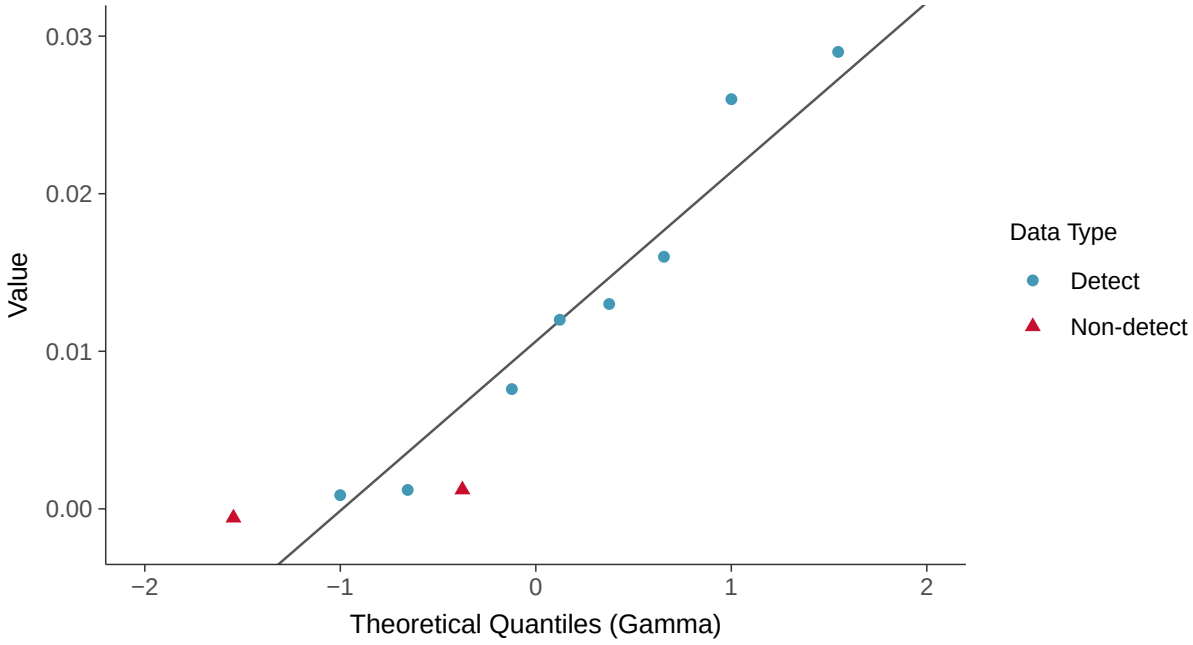
Lognormal Q-Q plot using ROS Imputed Estimates

Zinc, MW-16 (mg/L)



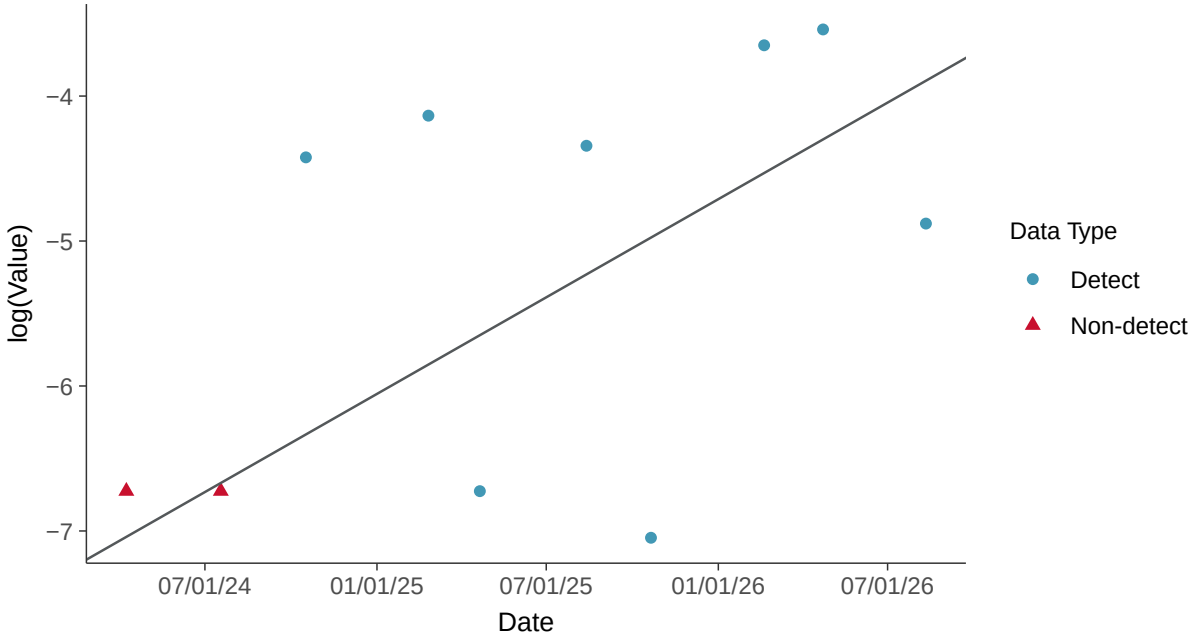
Gamma Q-Q plot using ROS Imputed Estimates

Zinc, MW-16 (mg/L)



Trend Regression: Lognormal MLE

Zinc, MW-16 (mg/L)

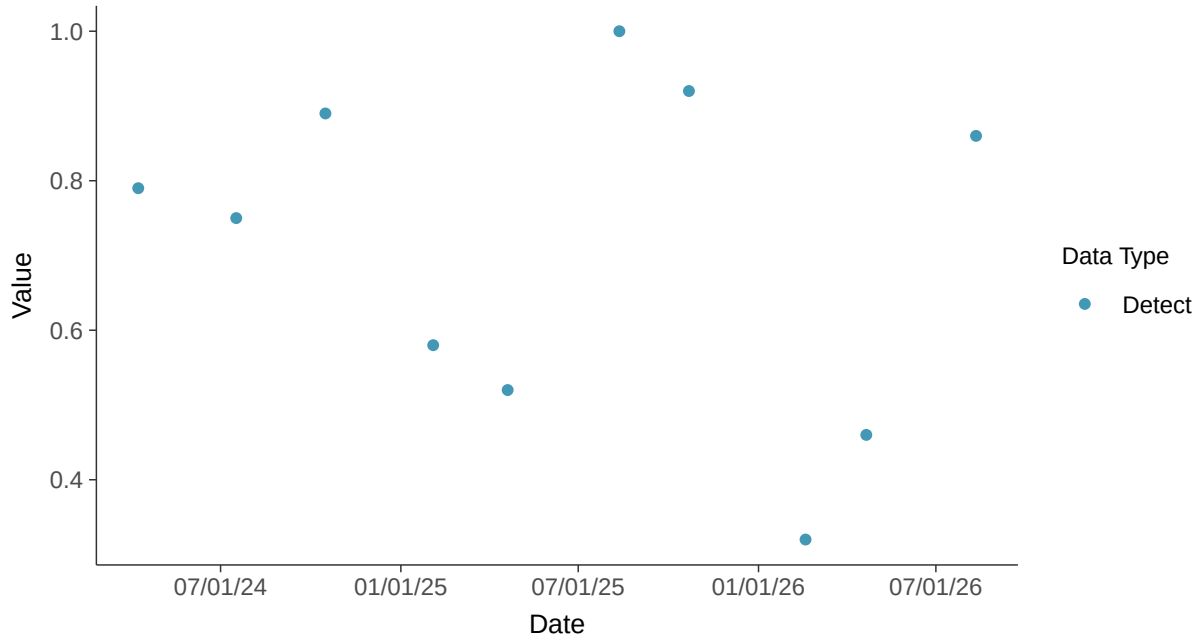


Appendix III: Boron, MW-17

ID: 27_1_3_105

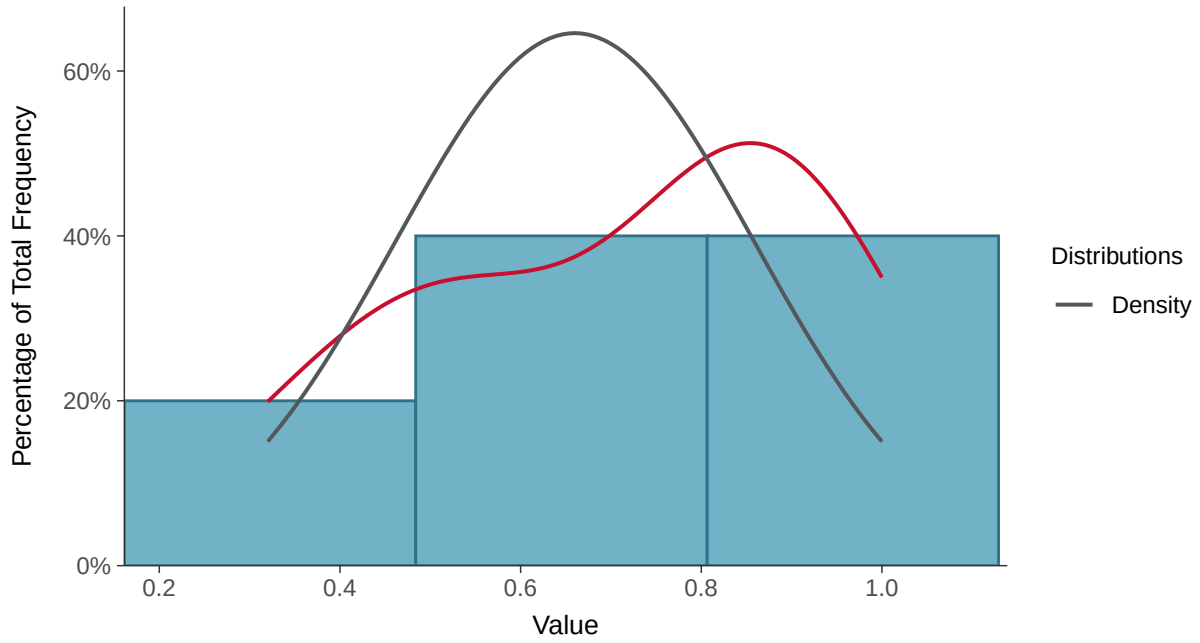
Scatter Plot

Boron, MW-17 (mg/L)



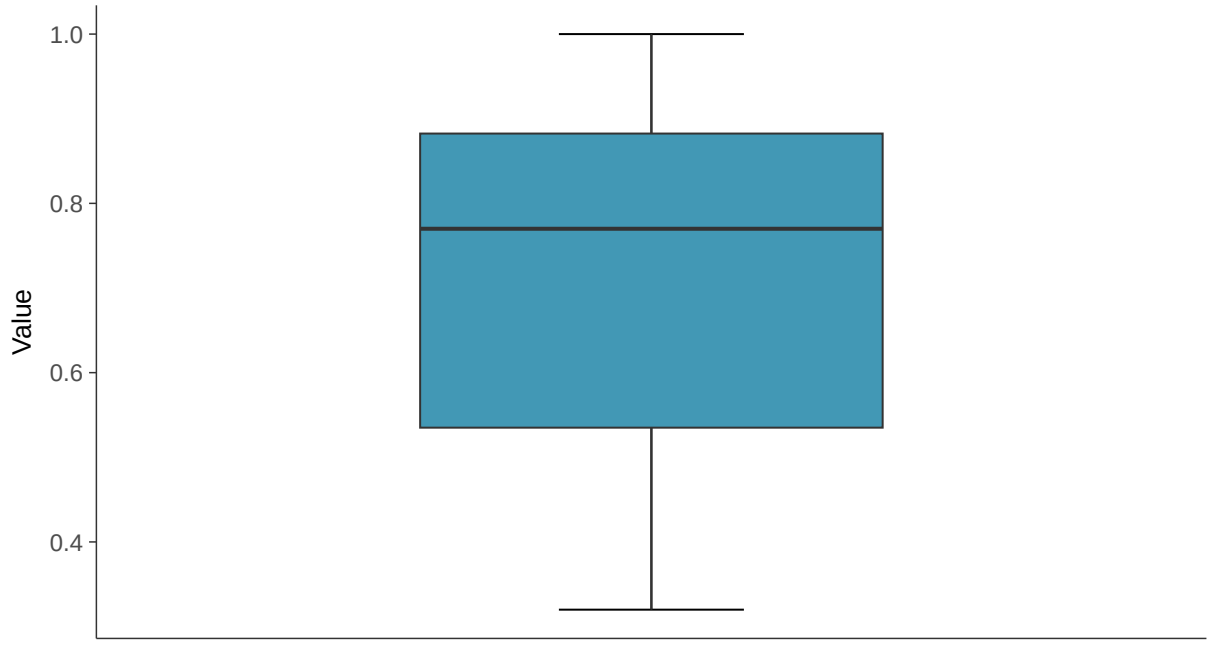
Histogram

Boron, MW-17 (mg/L)



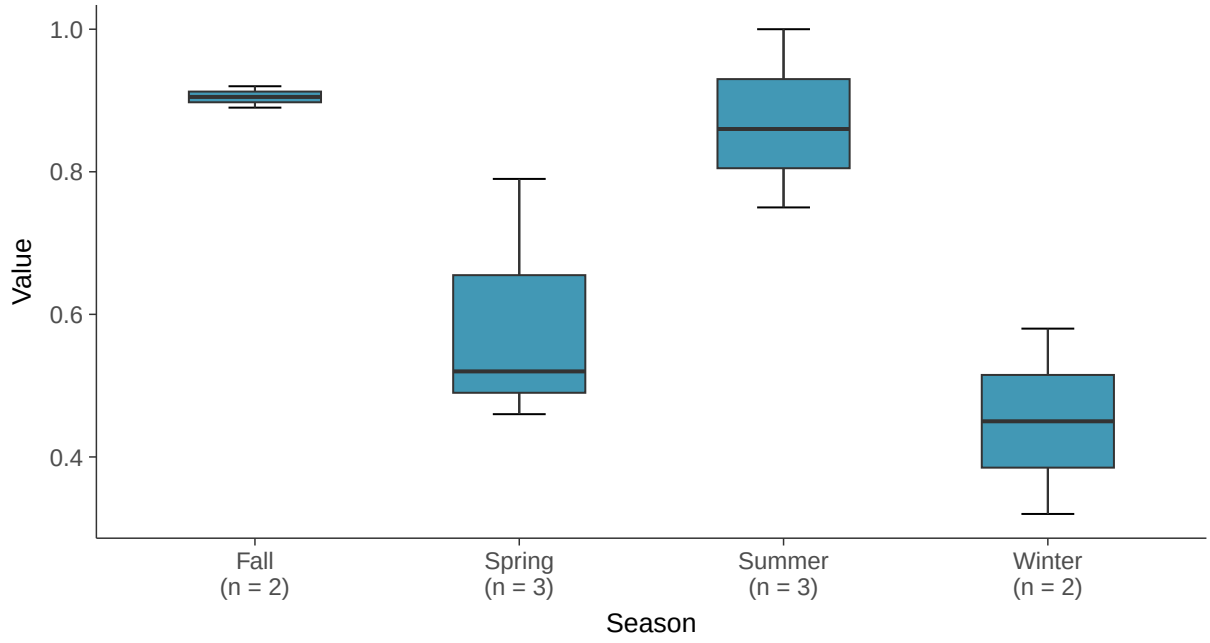
Boxplot

Boron, MW-17 (mg/L)



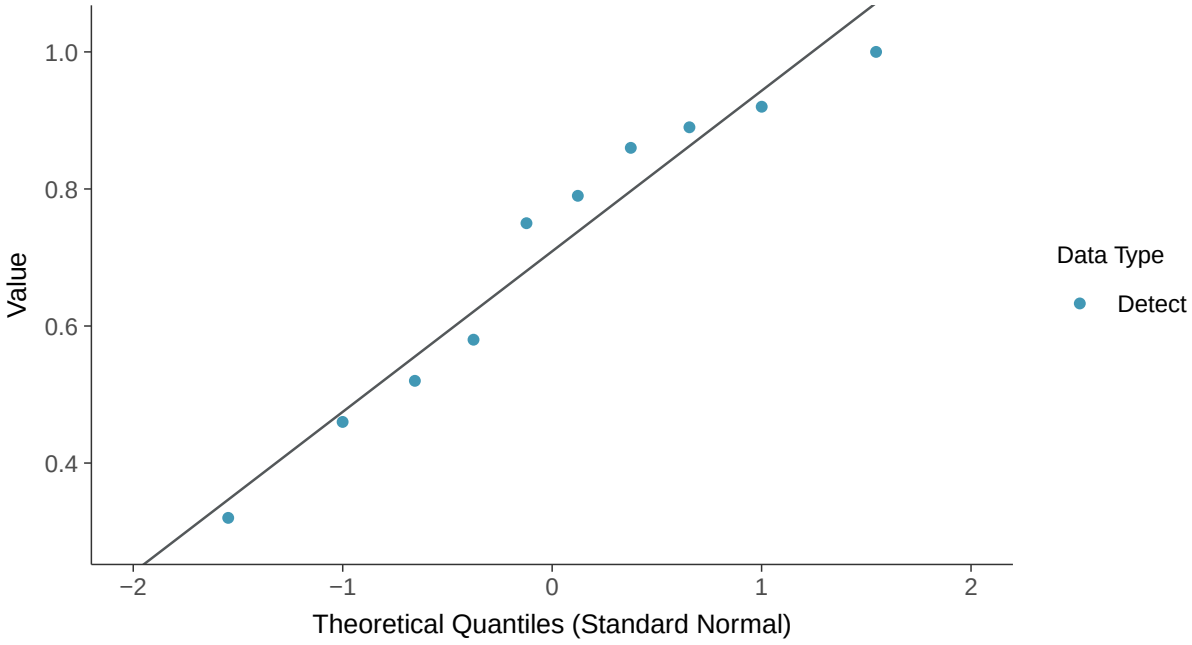
Boxplot by Season

Boron, MW-17 (mg/L)



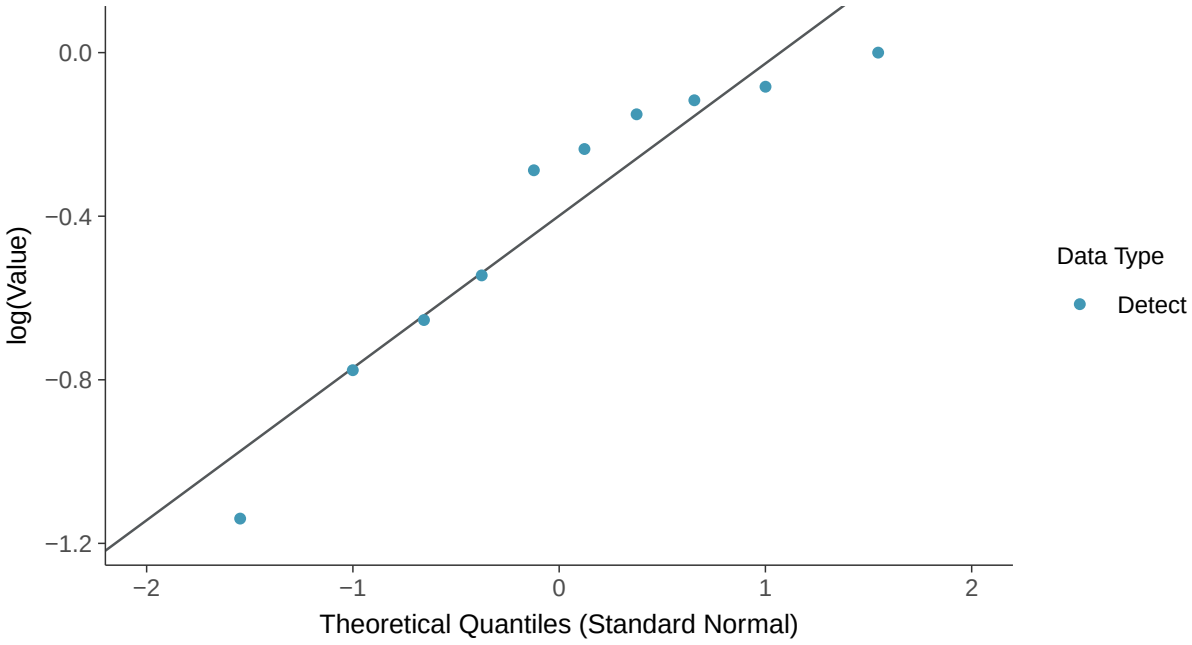
Normal Q-Q plot

Boron, MW-17 (mg/L)



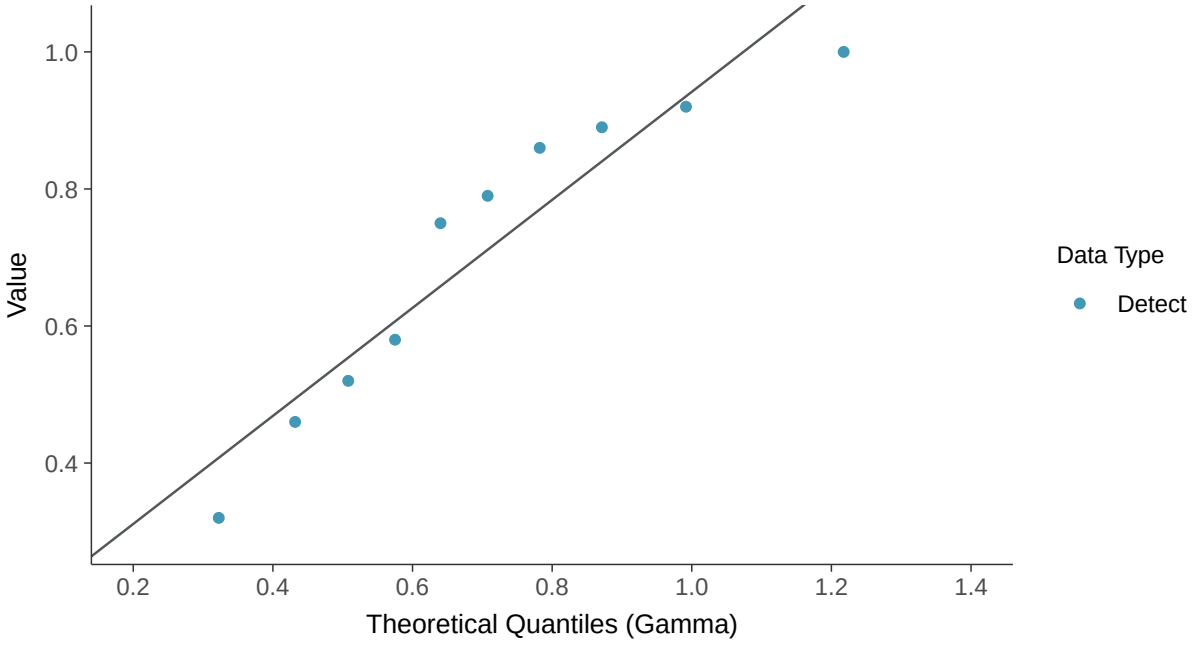
Lognormal Q-Q plot

Boron, MW-17 (mg/L)



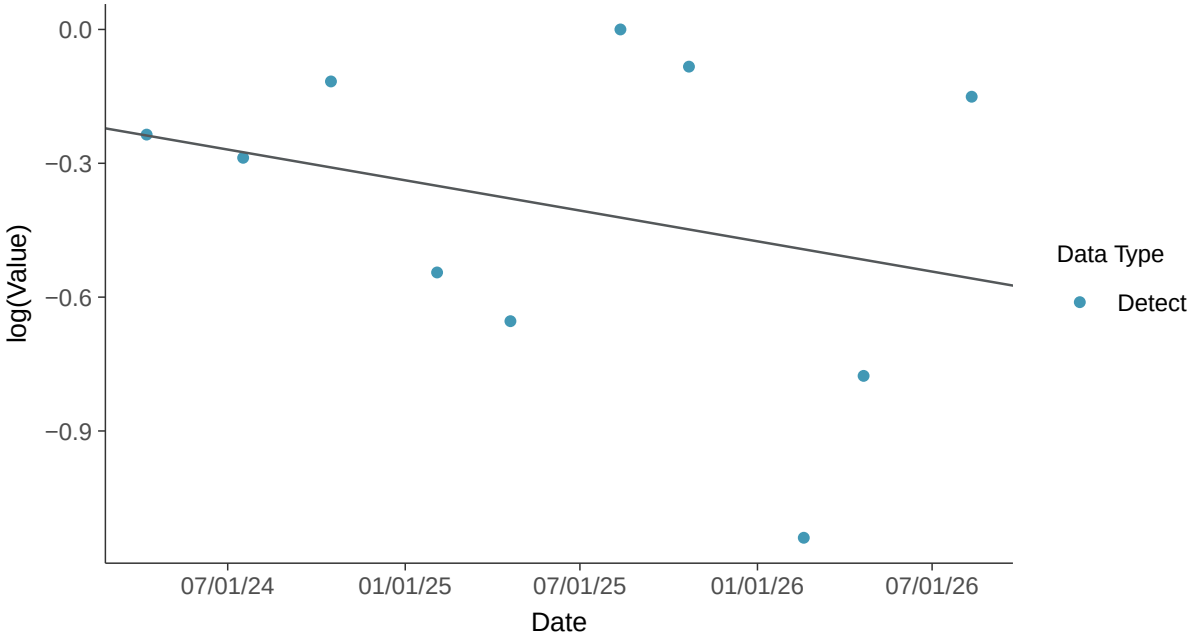
Gamma Q-Q plot

Boron, MW-17 (mg/L)



Trend Regression: Lognormal MLE

Boron, MW-17 (mg/L)

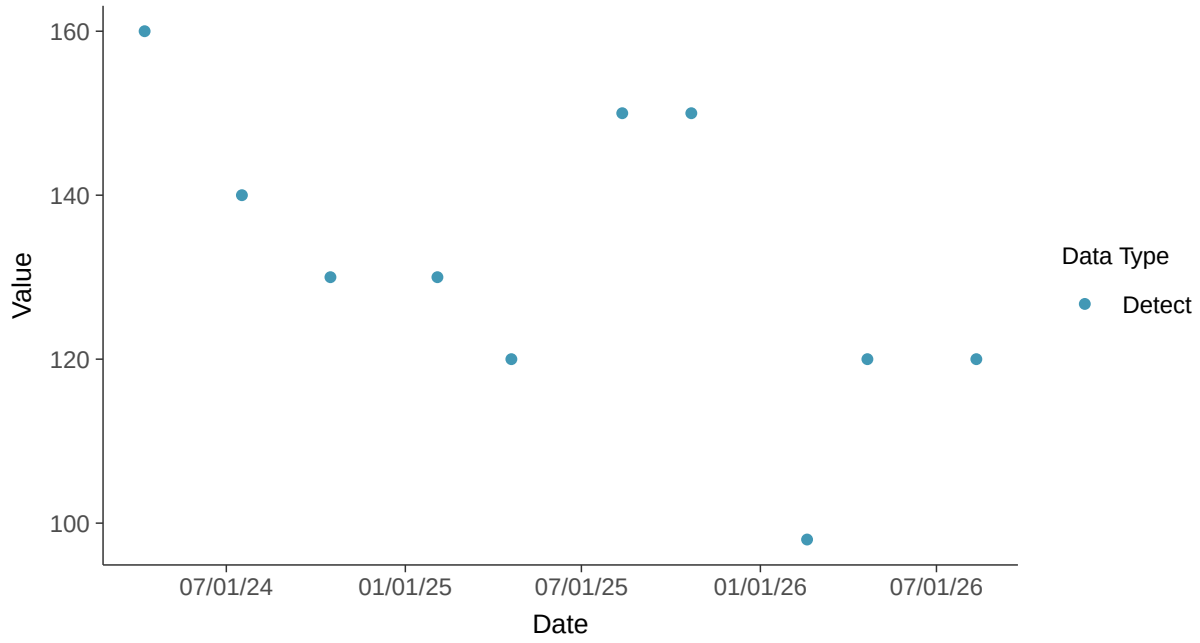


Appendix III: Calcium, MW-17

ID: 27_1_3_107

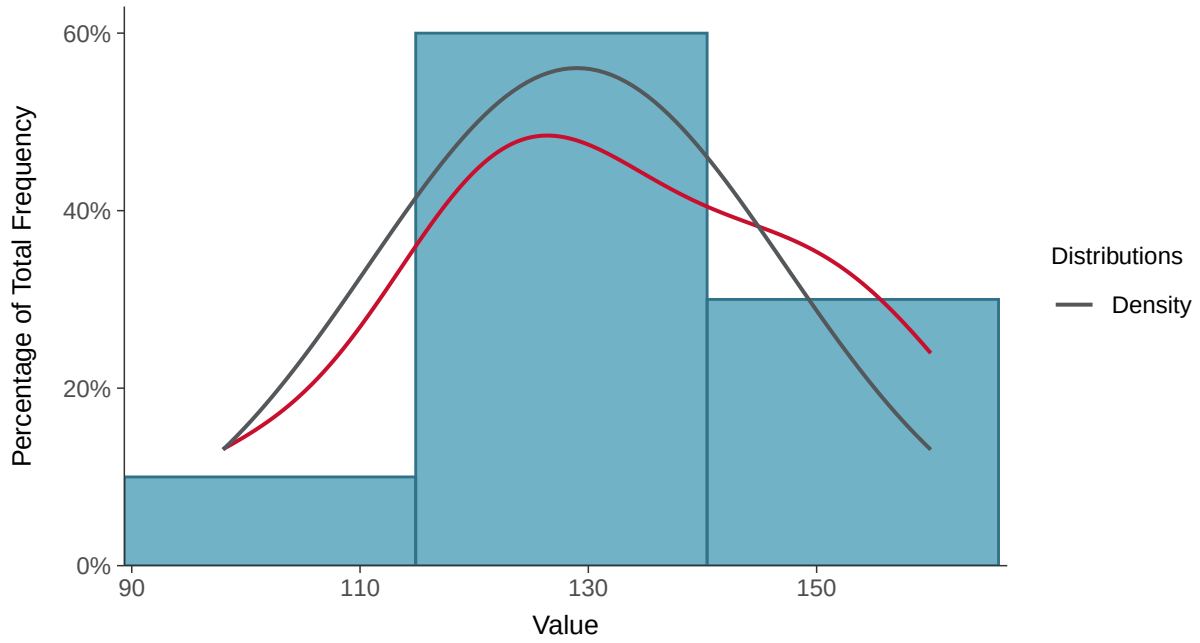
Scatter Plot

Calcium, MW-17 (mg/L)



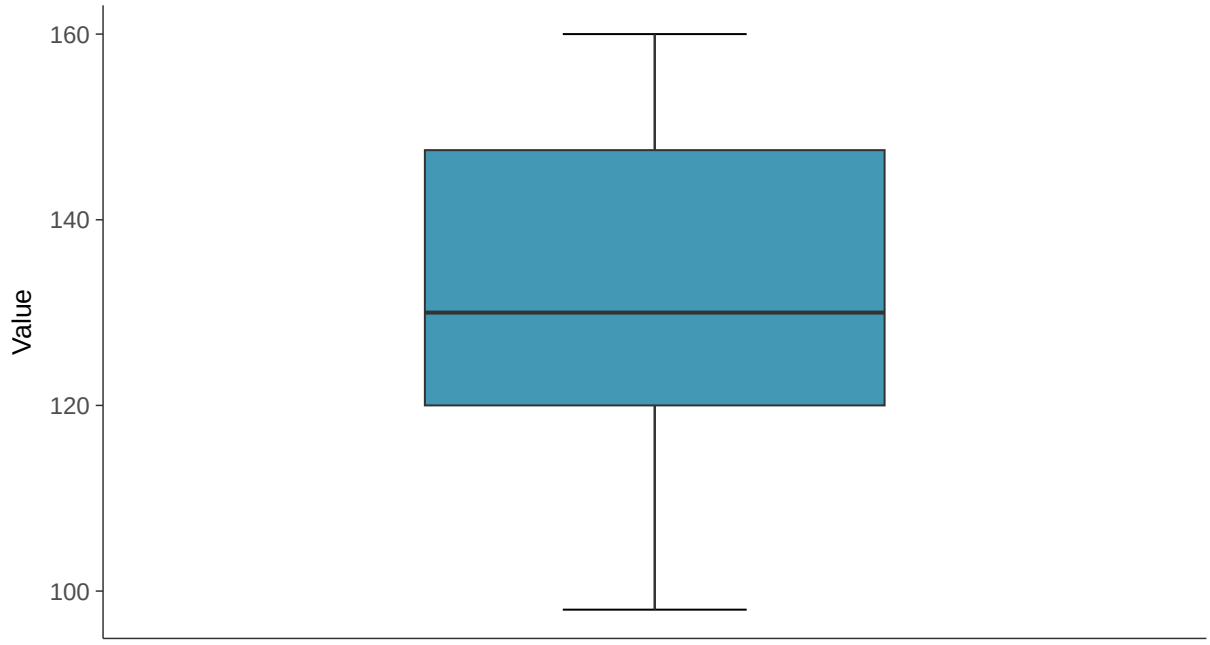
Histogram

Calcium, MW-17 (mg/L)



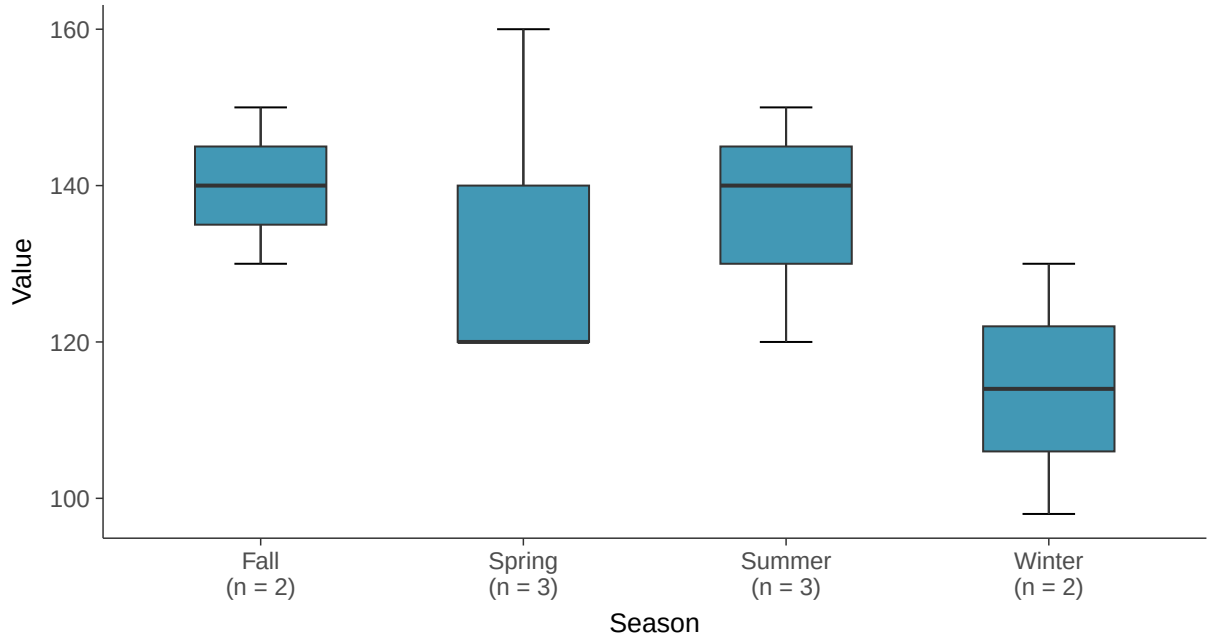
Boxplot

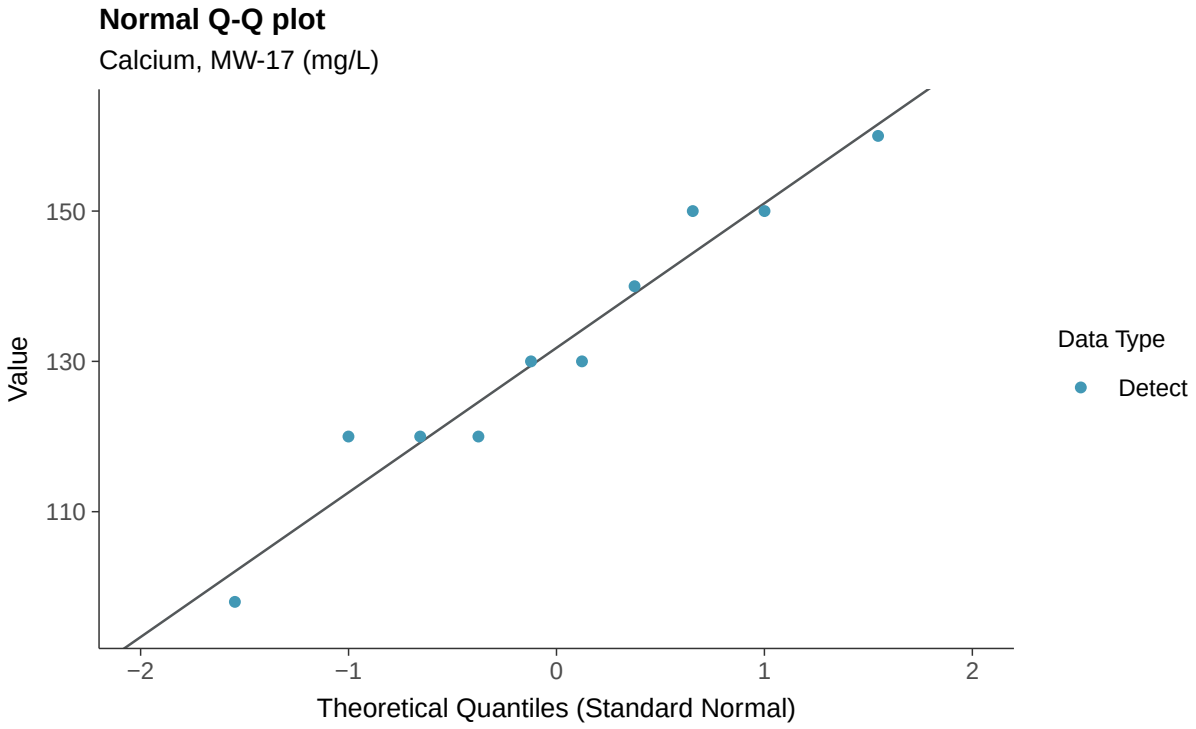
Calcium, MW-17 (mg/L)

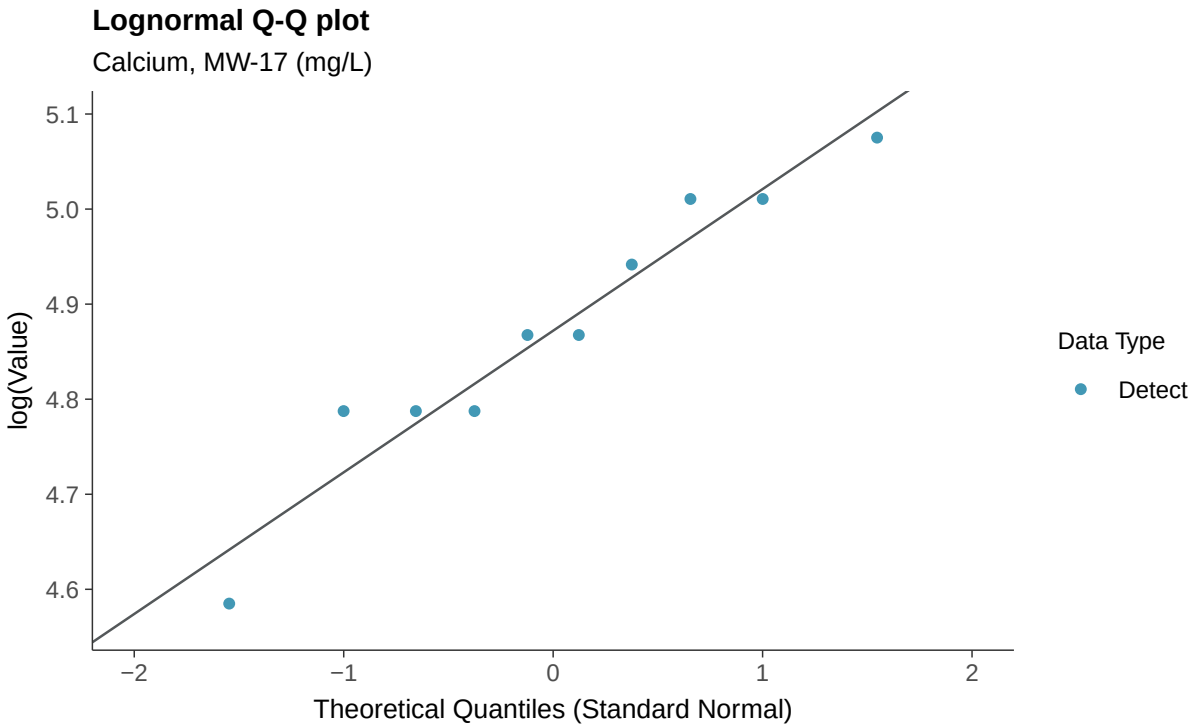


Boxplot by Season

Calcium, MW-17 (mg/L)

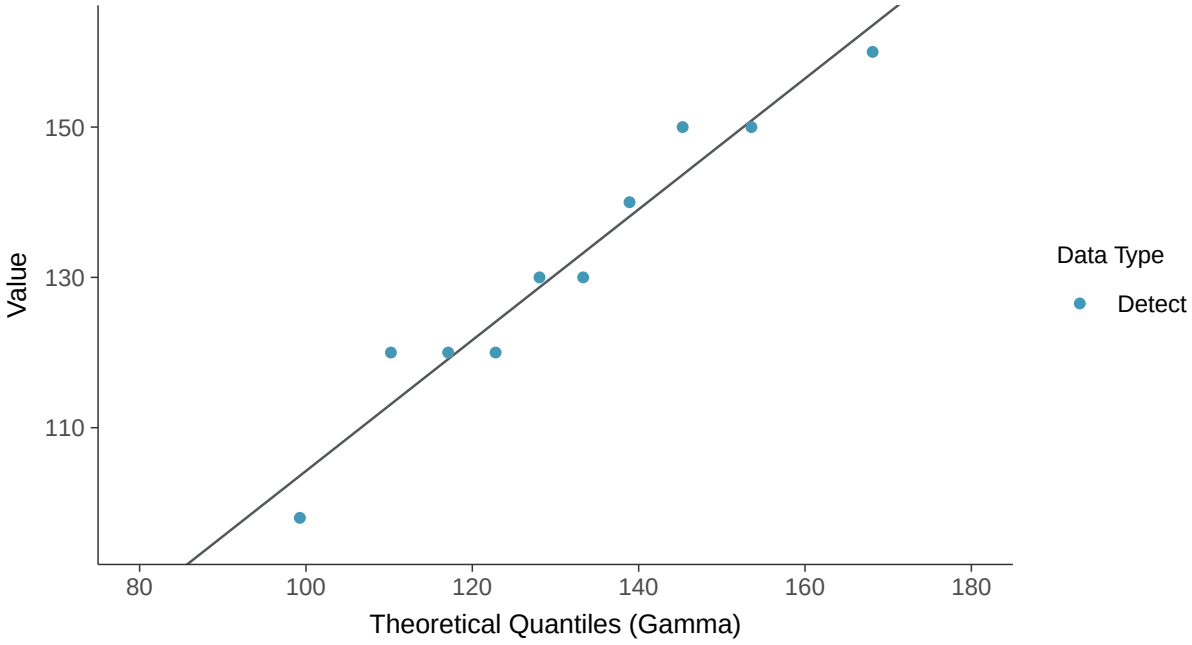



Normal Q-Q plot
Calcium, MW-17 (mg/L)
Value
150
130
110
−2
−1
0
1
2
Theoretical Quantiles (Standard Normal)
Data Type
Detect


Lognormal Q-Q plot
Calcium, MW-17 (mg/L)
log(Value)
5.1
5.0
4.9
4.8
4.7
4.6
−2
−1
0
1
2
Theoretical Quantiles (Standard Normal)
Data Type
Detect

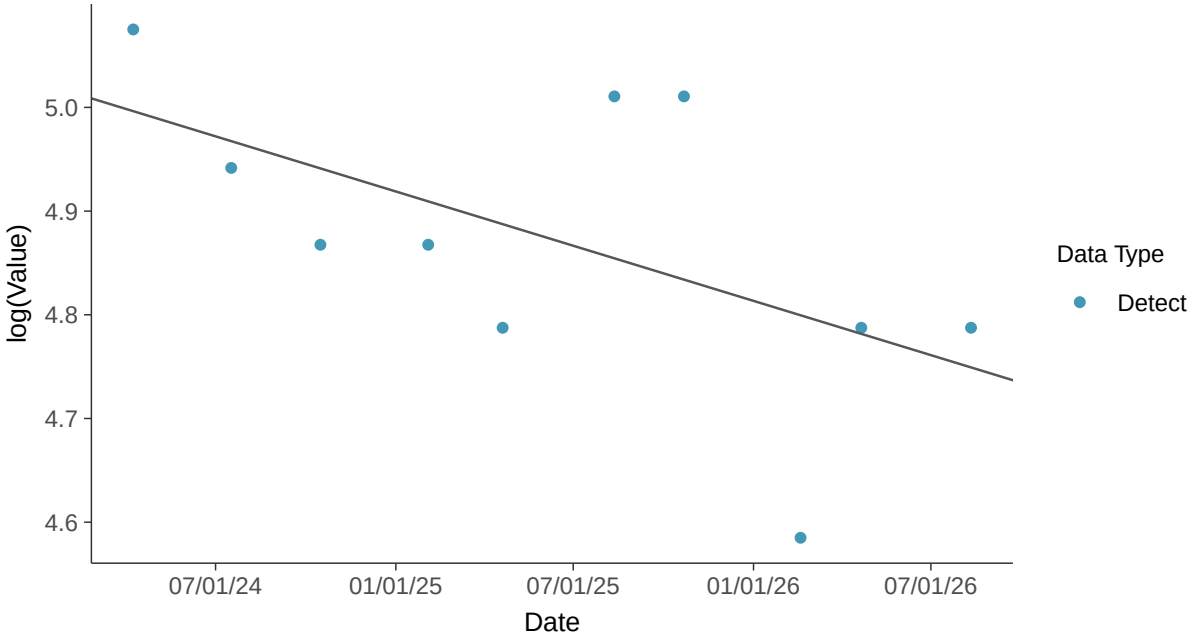
Gamma Q-Q plot

Calcium, MW-17 (mg/L)



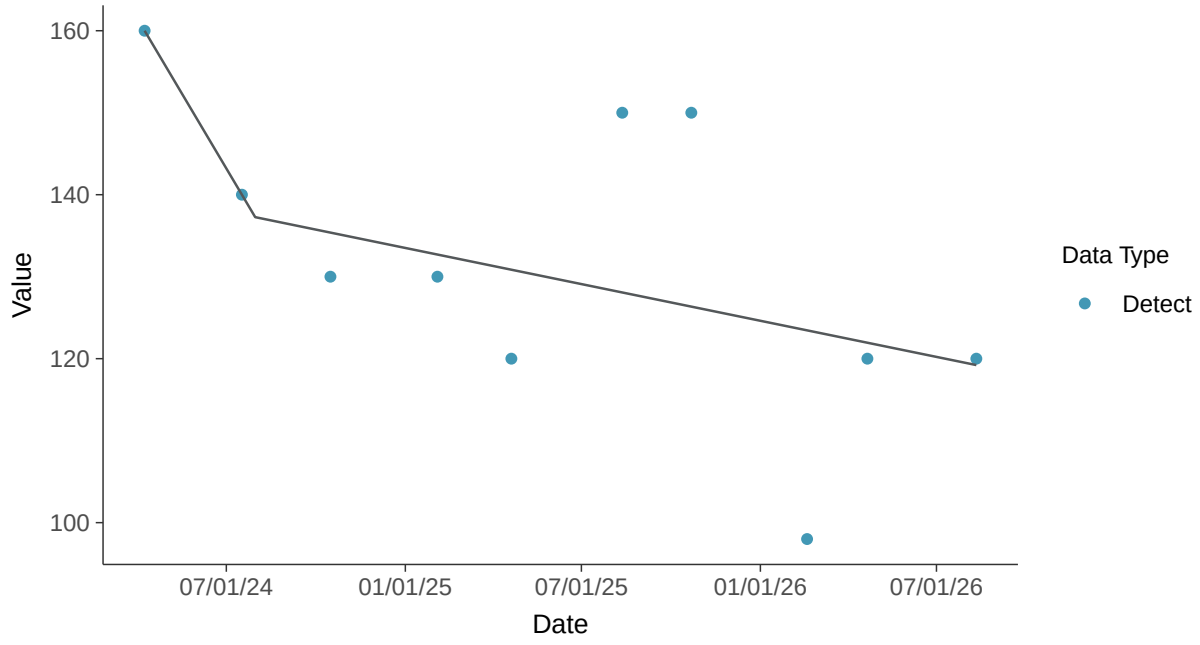
Trend Regression: Lognormal MLE

Calcium, MW-17 (mg/L)



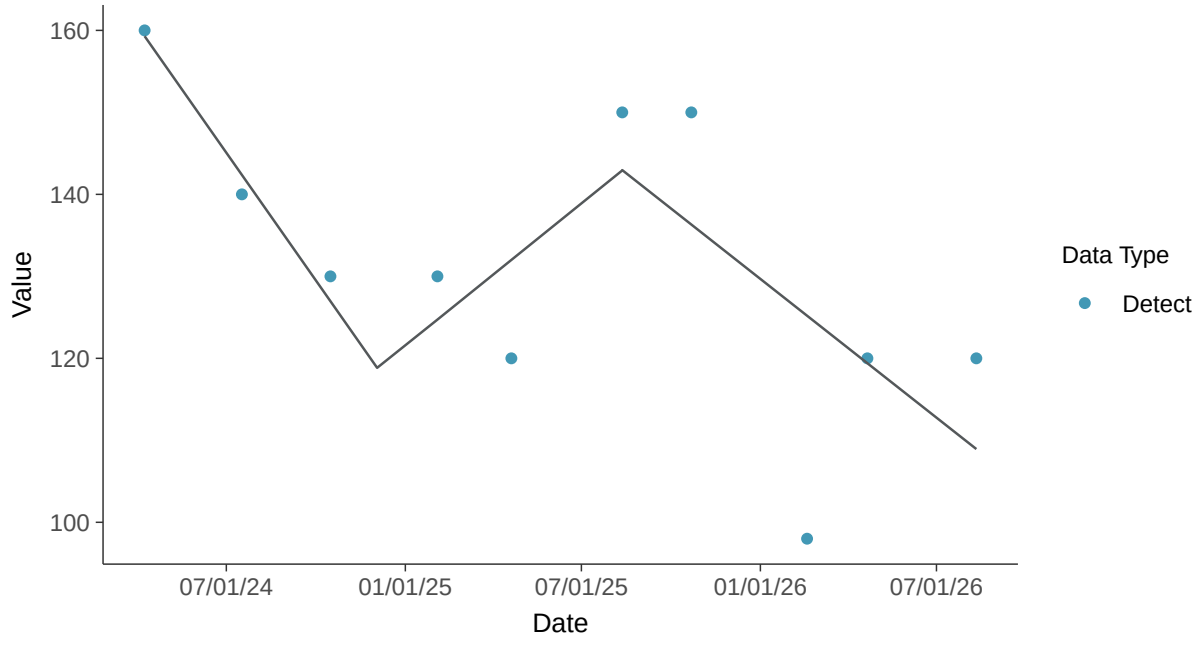
Trend Regression: Piecewise Linear-Linear

Calcium, MW-17 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Calcium, MW-17 (mg/L)

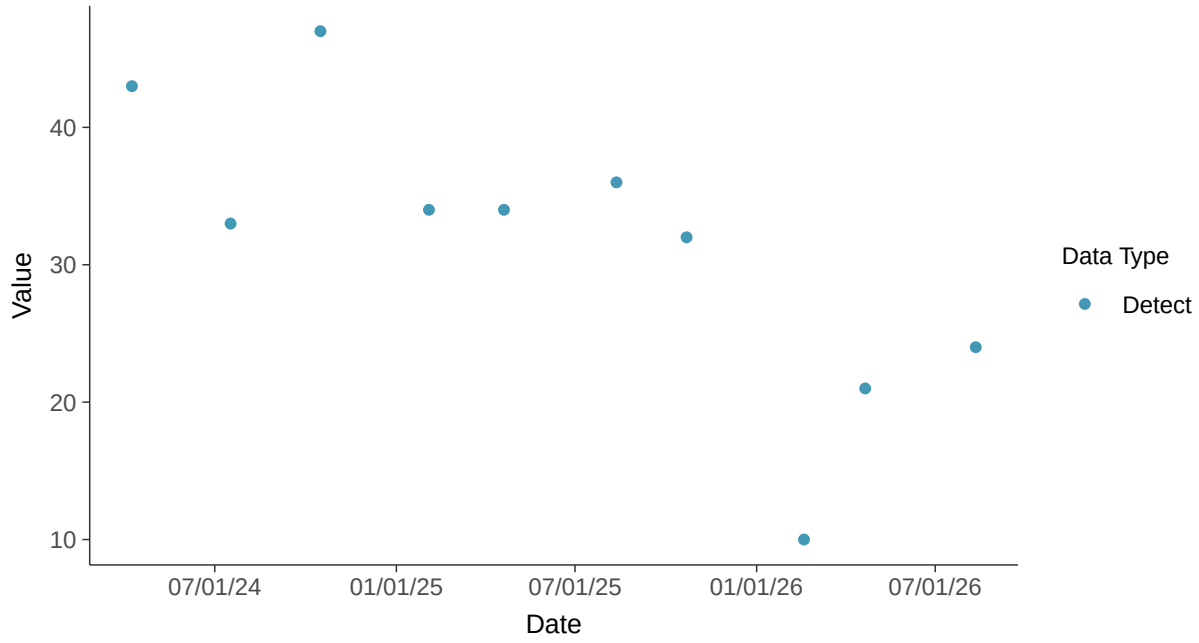


Appendix III: Chloride (as Cl), MW-17

ID: 27_1_3_108

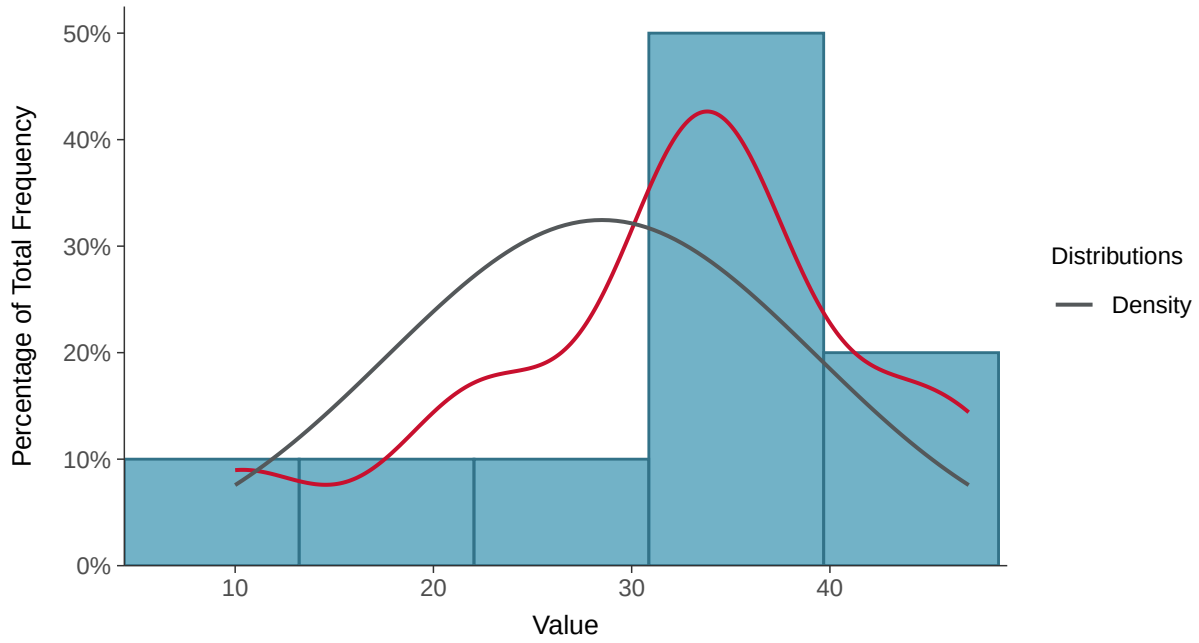
Scatter Plot

Chloride (as Cl), MW-17 (mg/L)



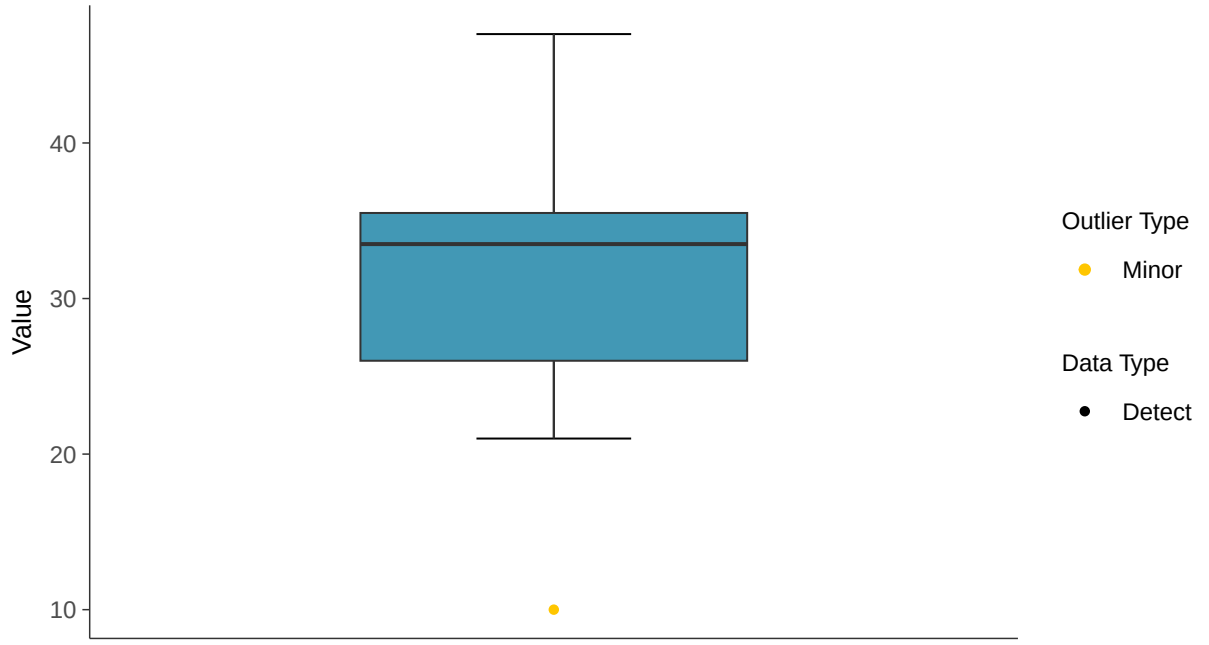
Histogram

Chloride (as Cl), MW-17 (mg/L)



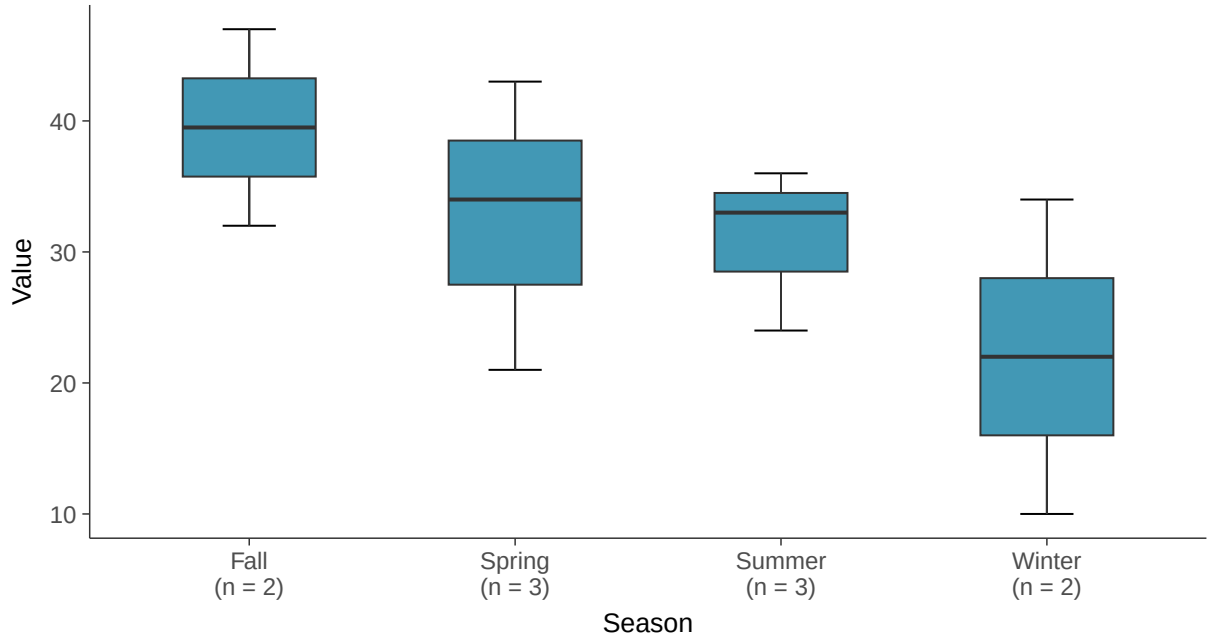
Boxplot

Chloride (as Cl), MW-17 (mg/L)



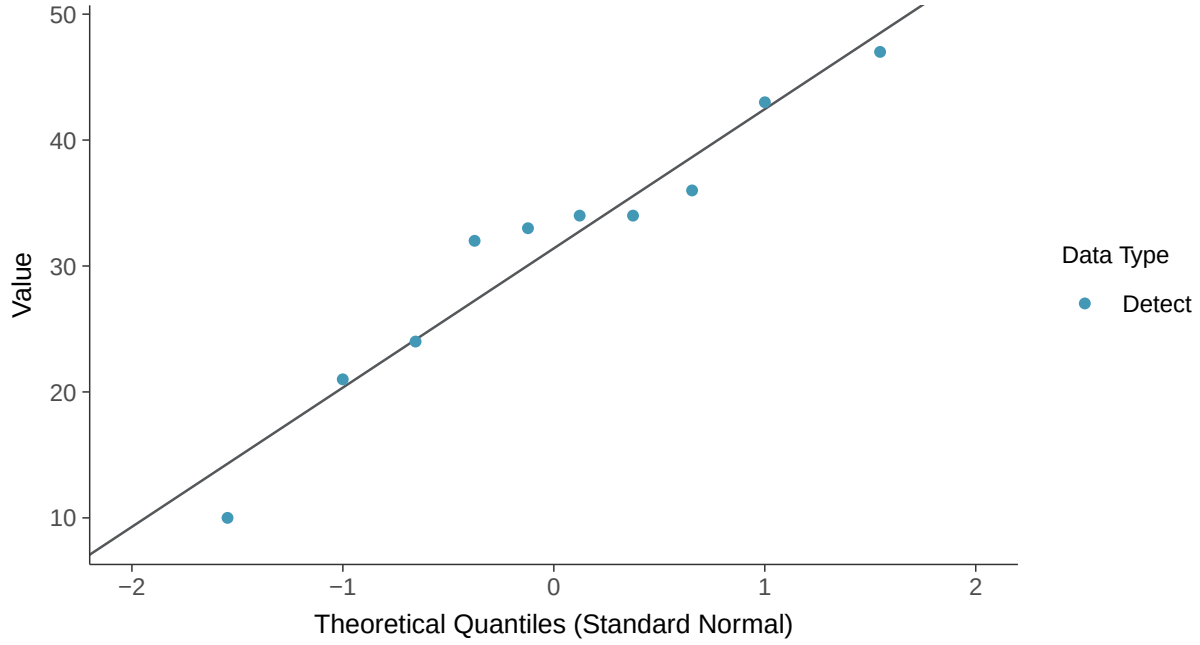
Boxplot by Season

Chloride (as Cl), MW-17 (mg/L)



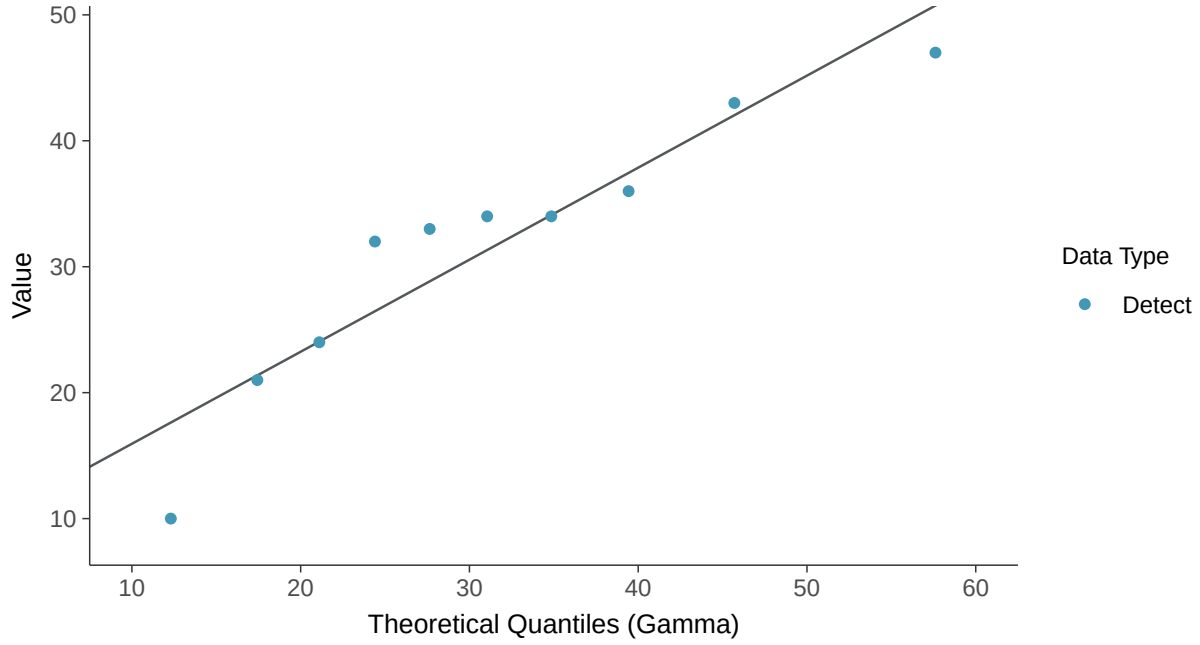
Normal Q-Q plot

Chloride (as Cl), MW-17 (mg/L)



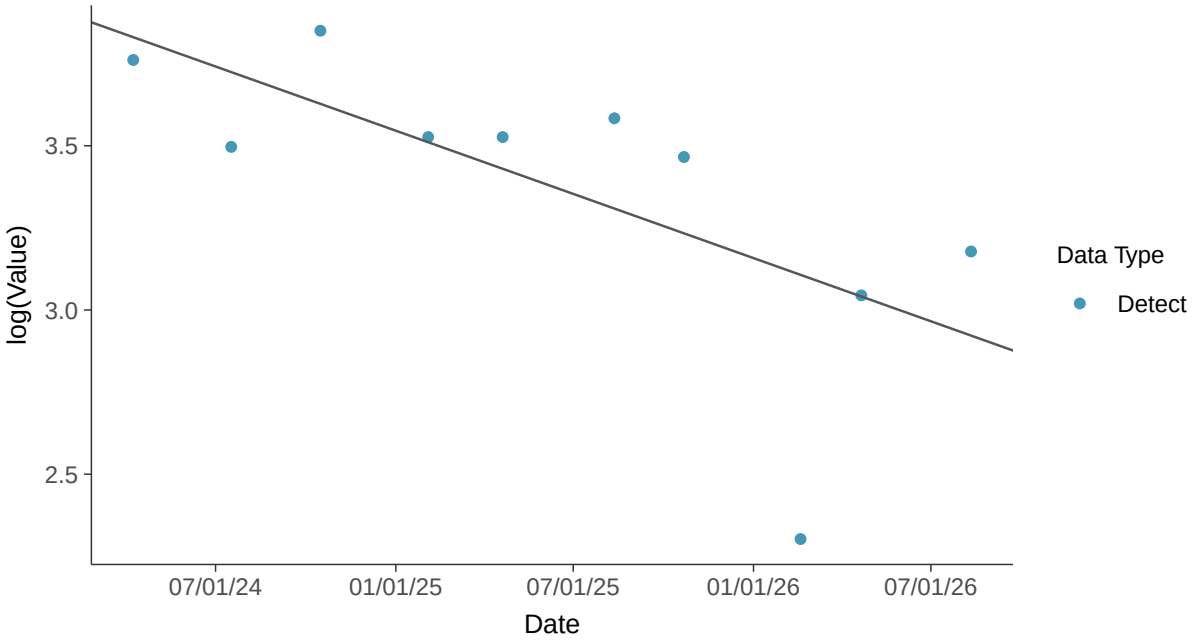
Gamma Q-Q plot

Chloride (as Cl), MW-17 (mg/L)



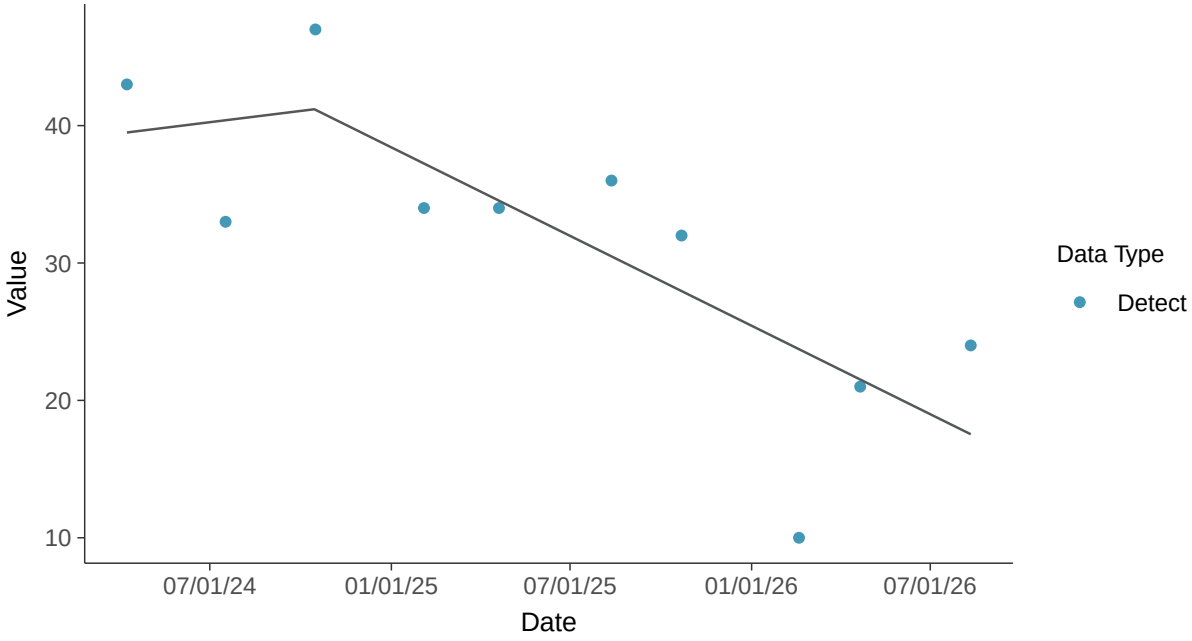
Trend Regression: Lognormal MLE

Chloride (as Cl), MW-17 (mg/L)



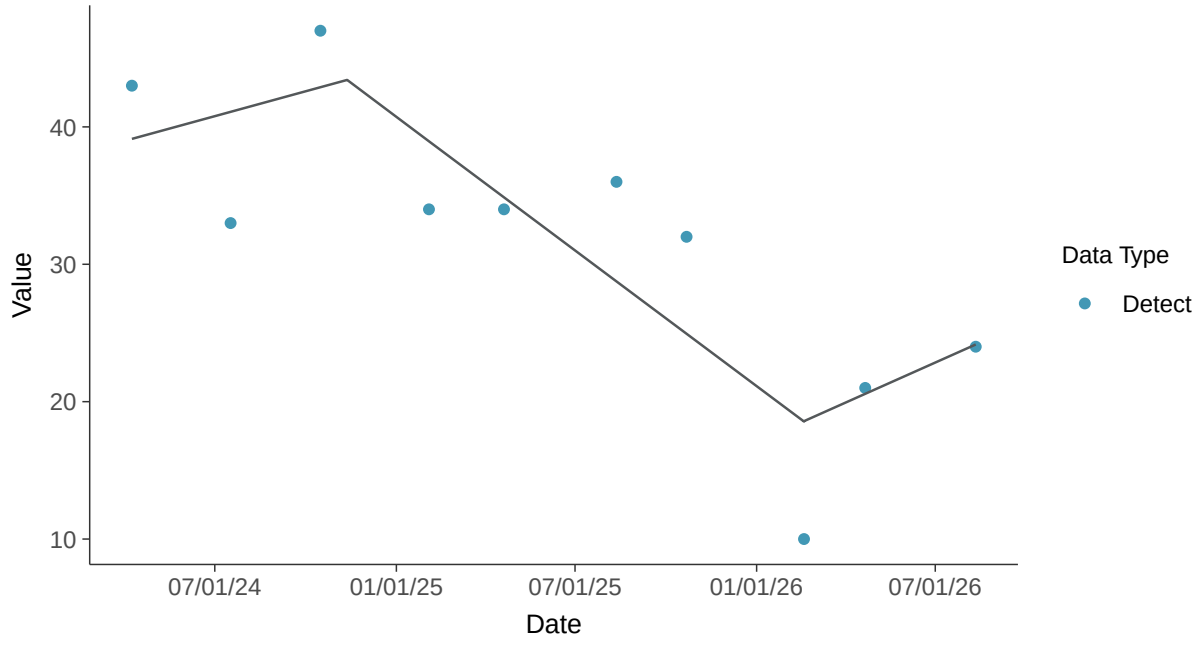
Trend Regression: Piecewise Linear-Linear

Chloride (as Cl), MW-17 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Chloride (as Cl), MW-17 (mg/L)

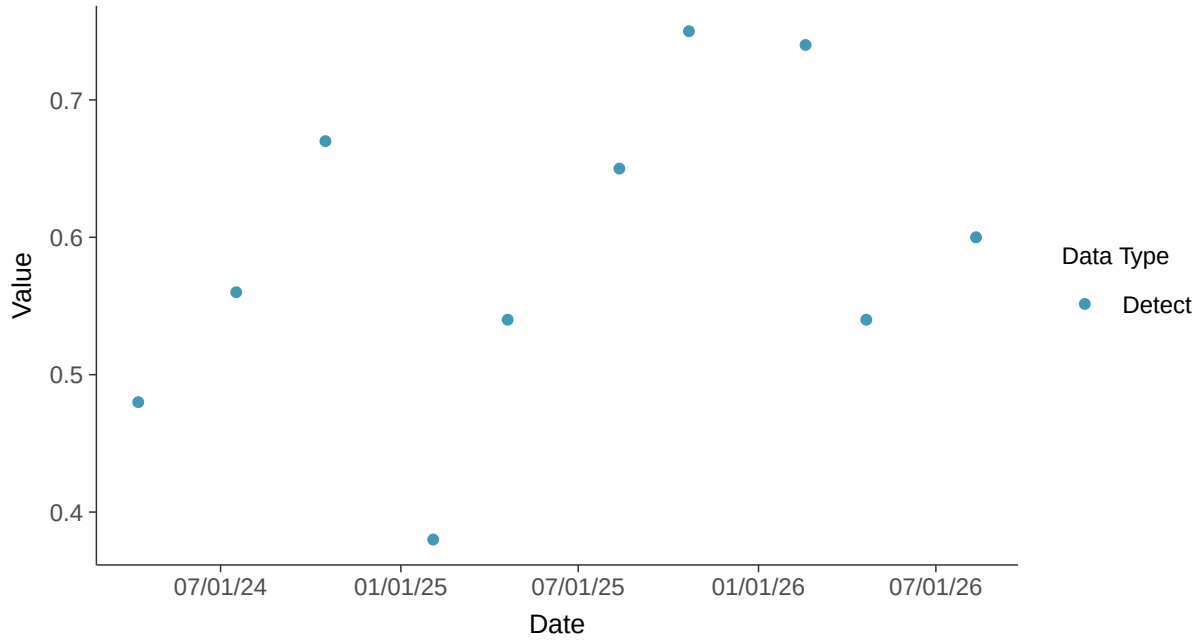


Appendix III: Fluoride, MW-17

ID: 27_1_3_112

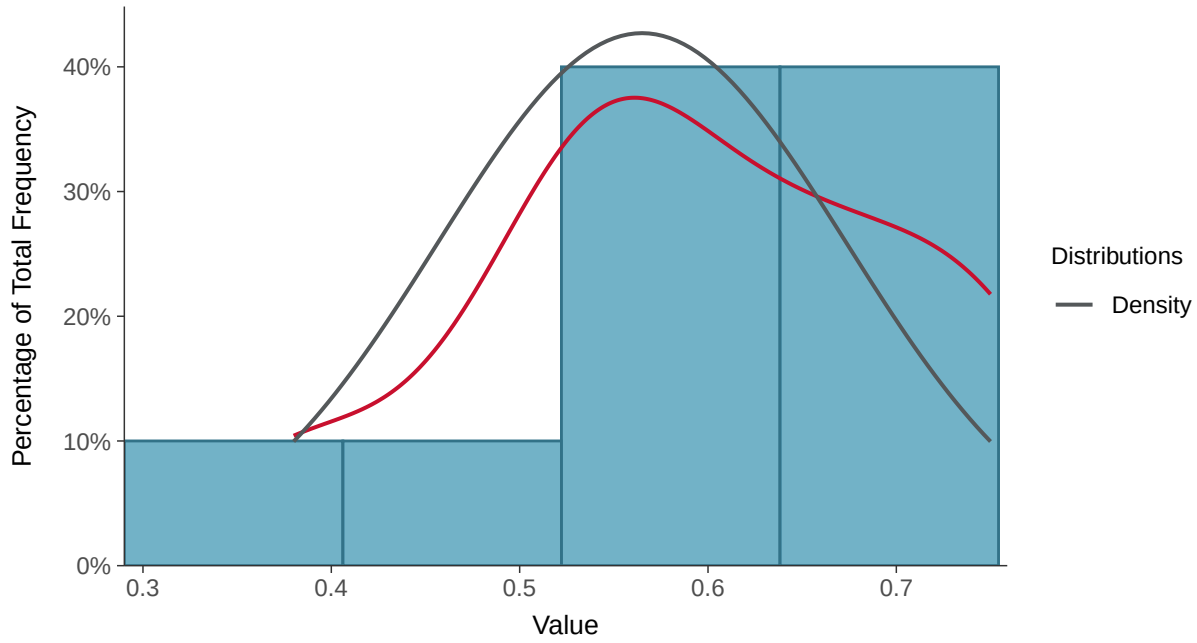
Scatter Plot

Fluoride, MW-17 (mg/L)



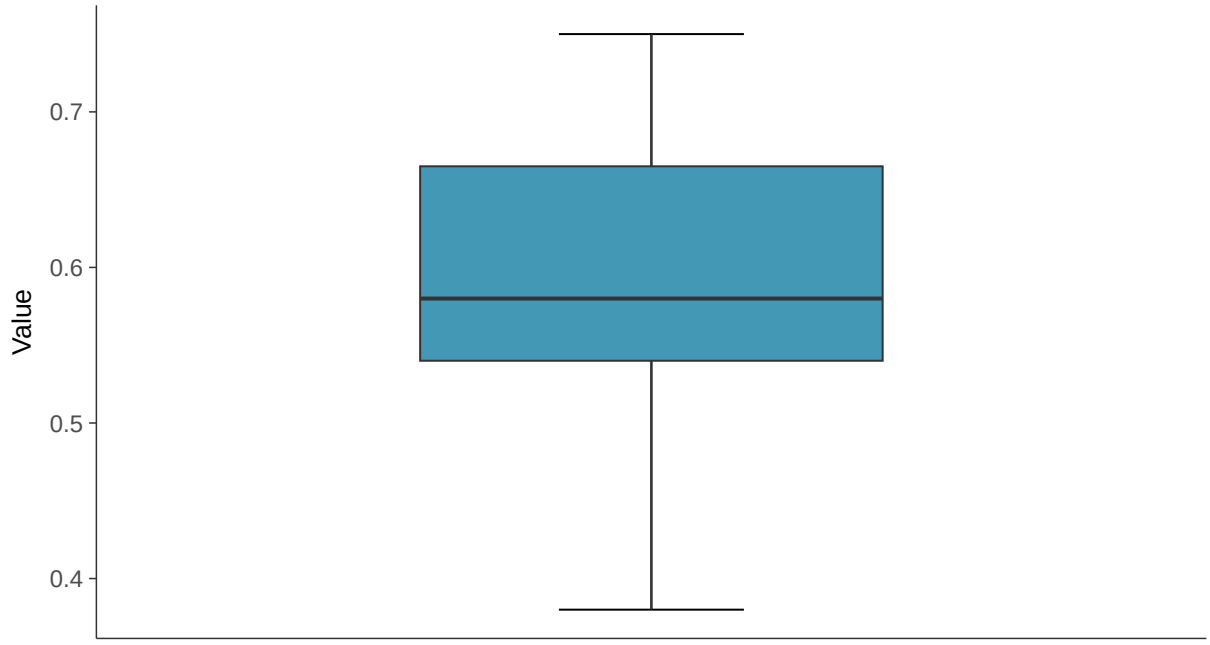
Histogram

Fluoride, MW-17 (mg/L)



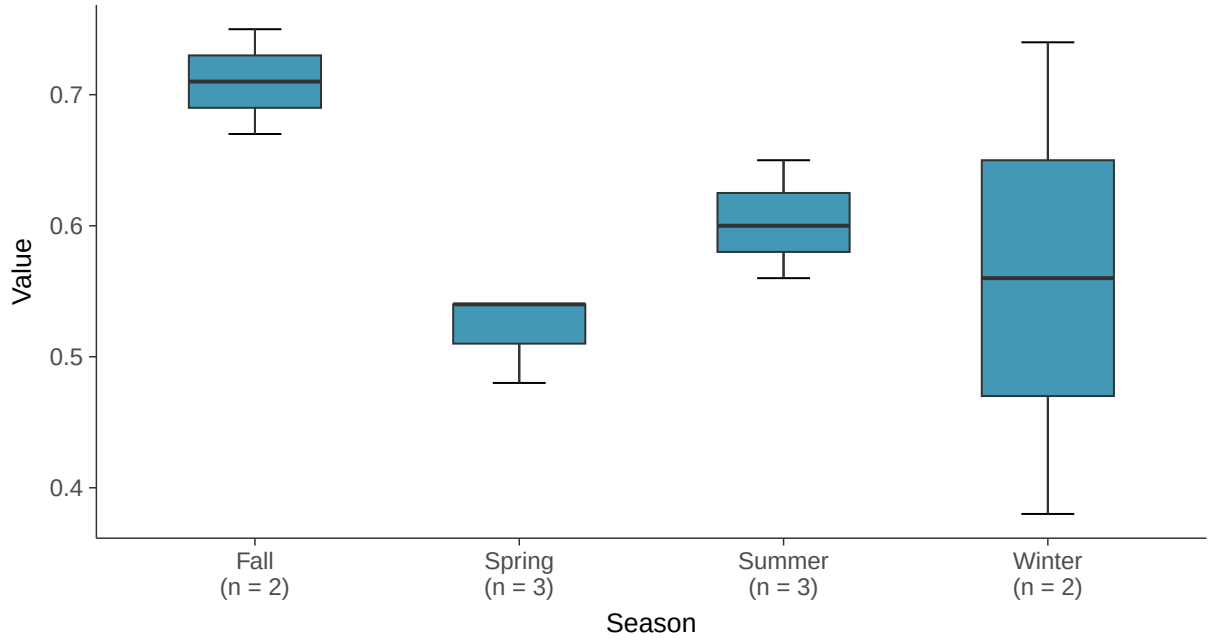
Boxplot

Fluoride, MW-17 (mg/L)



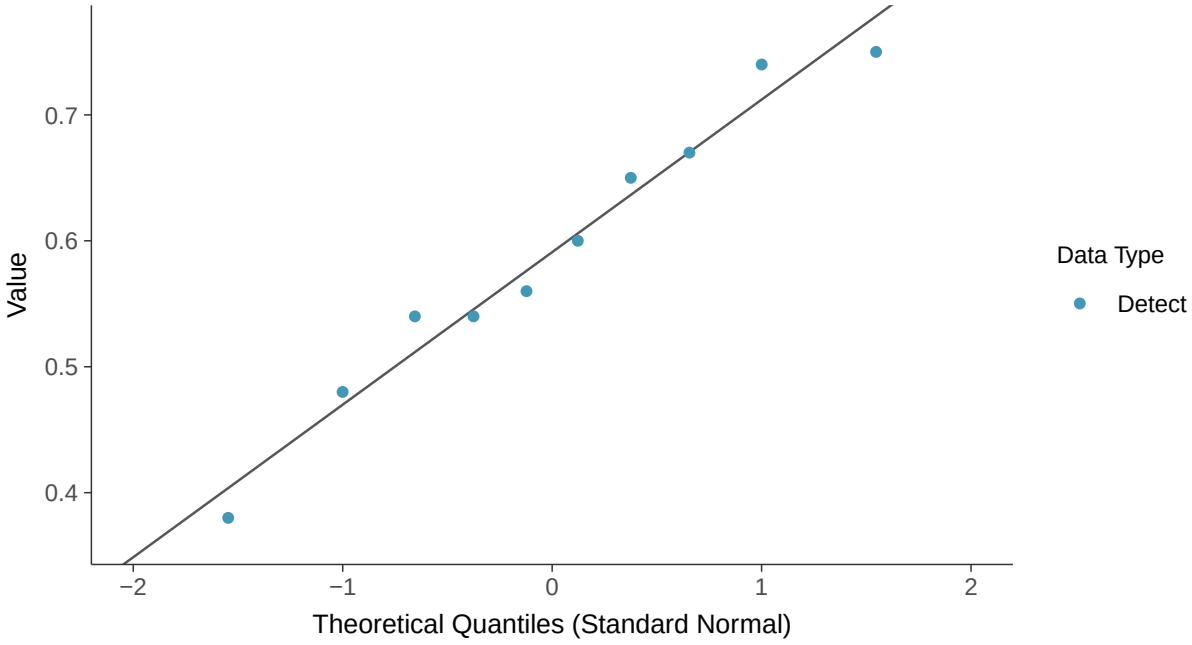
Boxplot by Season

Fluoride, MW-17 (mg/L)



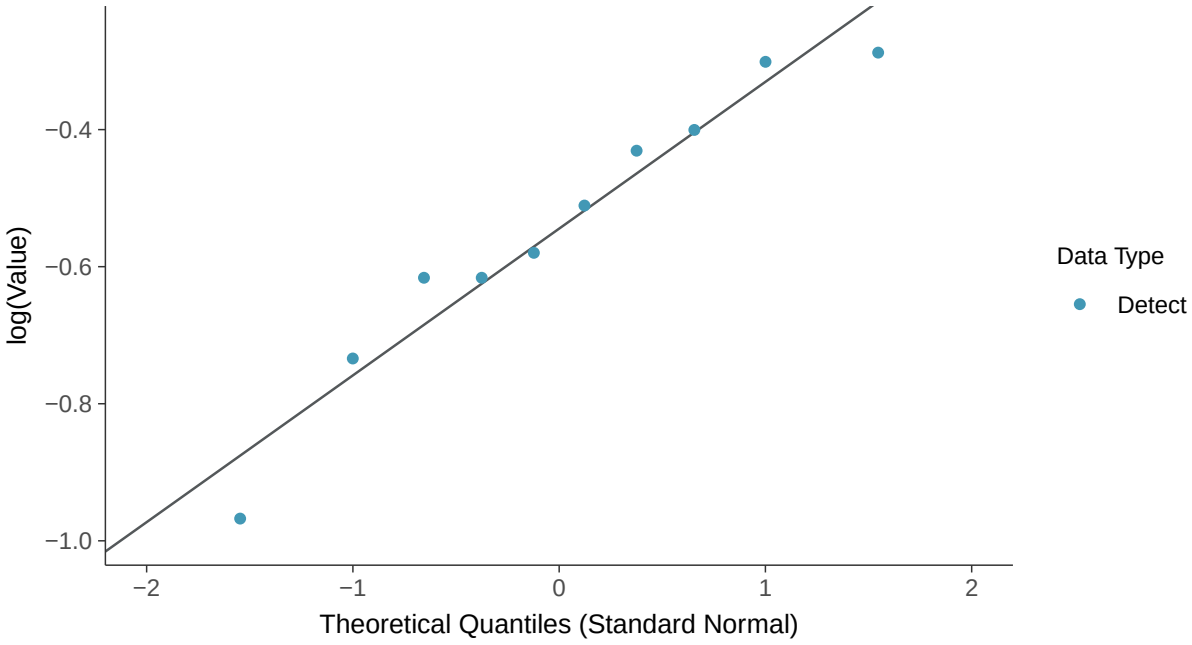
Normal Q-Q plot

Fluoride, MW-17 (mg/L)



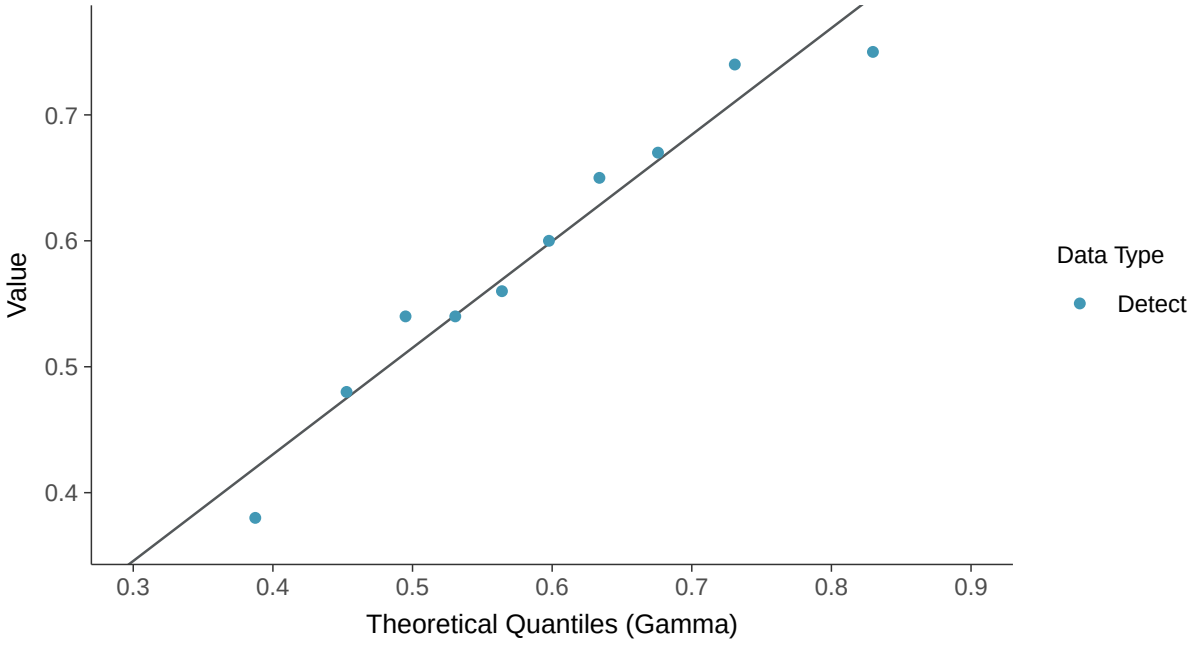
Lognormal Q-Q plot

Fluoride, MW-17 (mg/L)



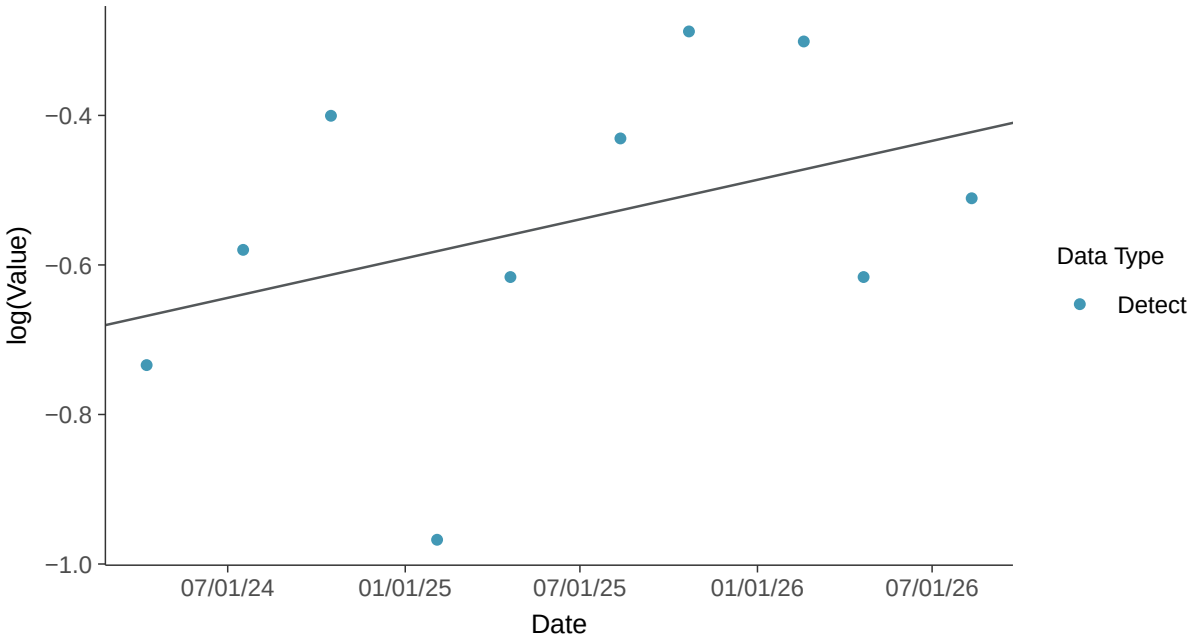
Gamma Q-Q plot

Fluoride, MW-17 (mg/L)



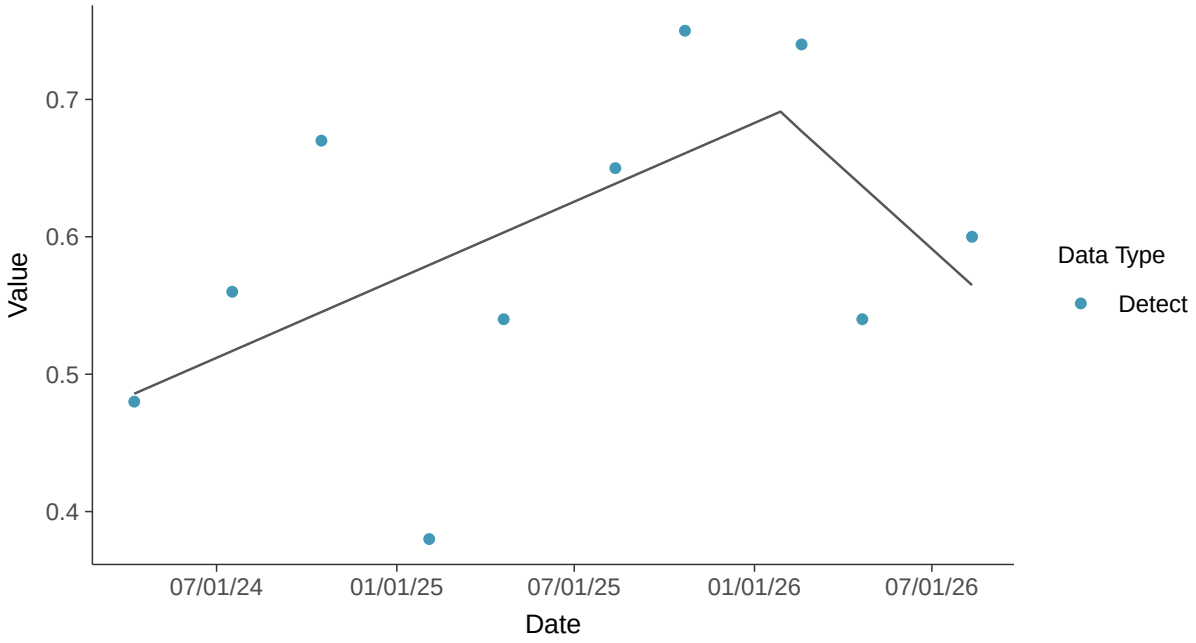
Trend Regression: Lognormal MLE

Fluoride, MW-17 (mg/L)



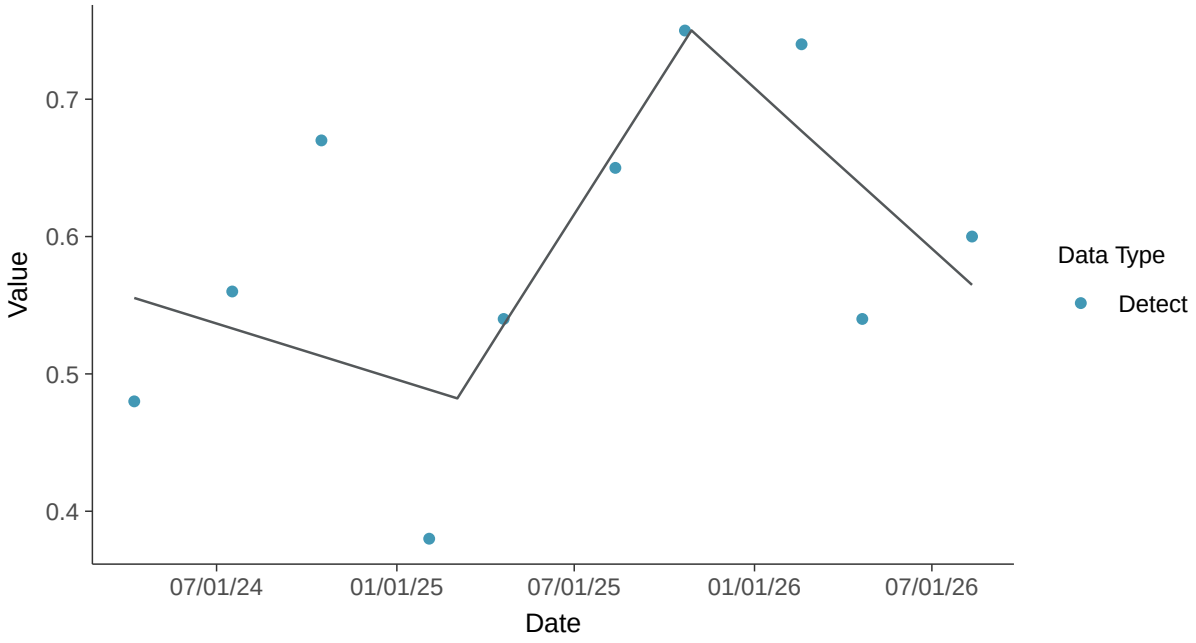
Trend Regression: Piecewise Linear-Linear

Fluoride, MW-17 (mg/L)



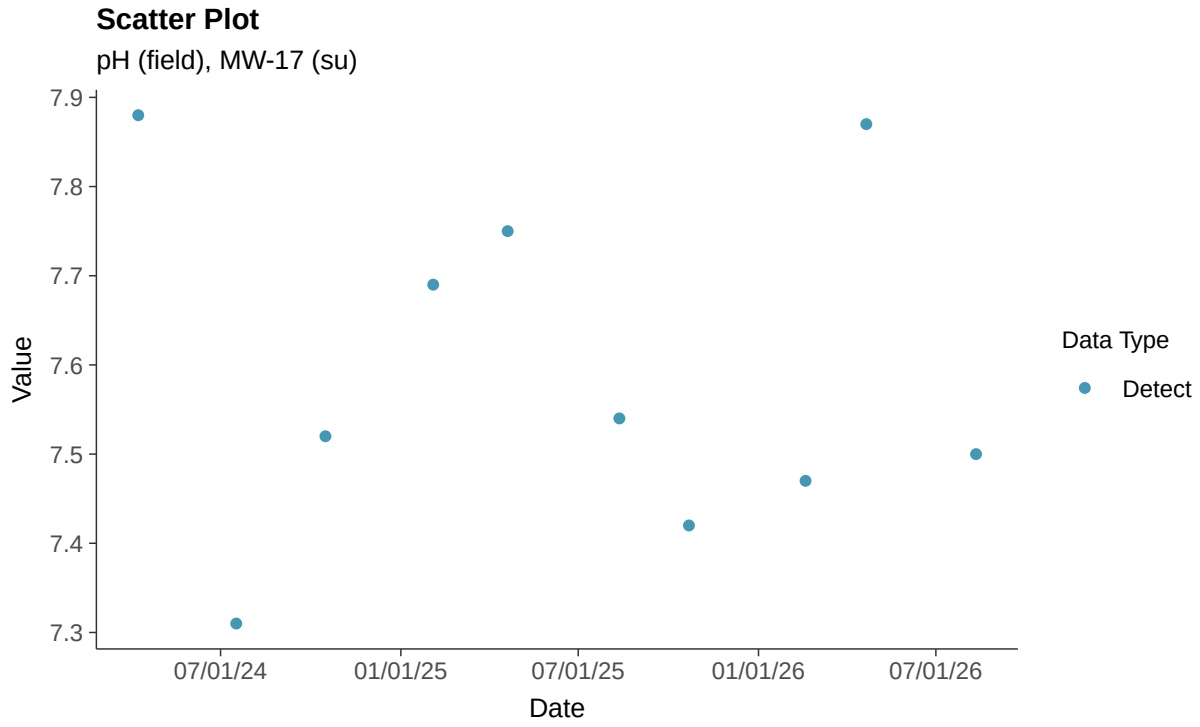
Trend Regression: Piecewise Linear-Linear-Linear

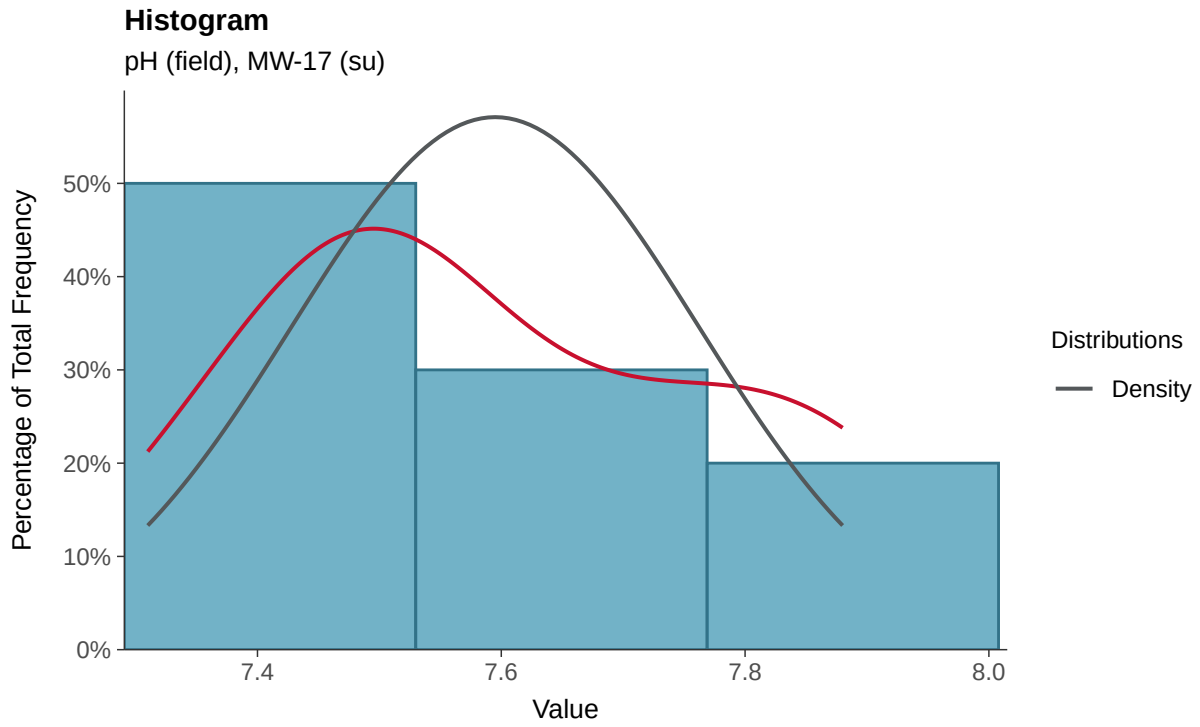
Fluoride, MW-17 (mg/L)



Appendix III: pH (field), MW-17

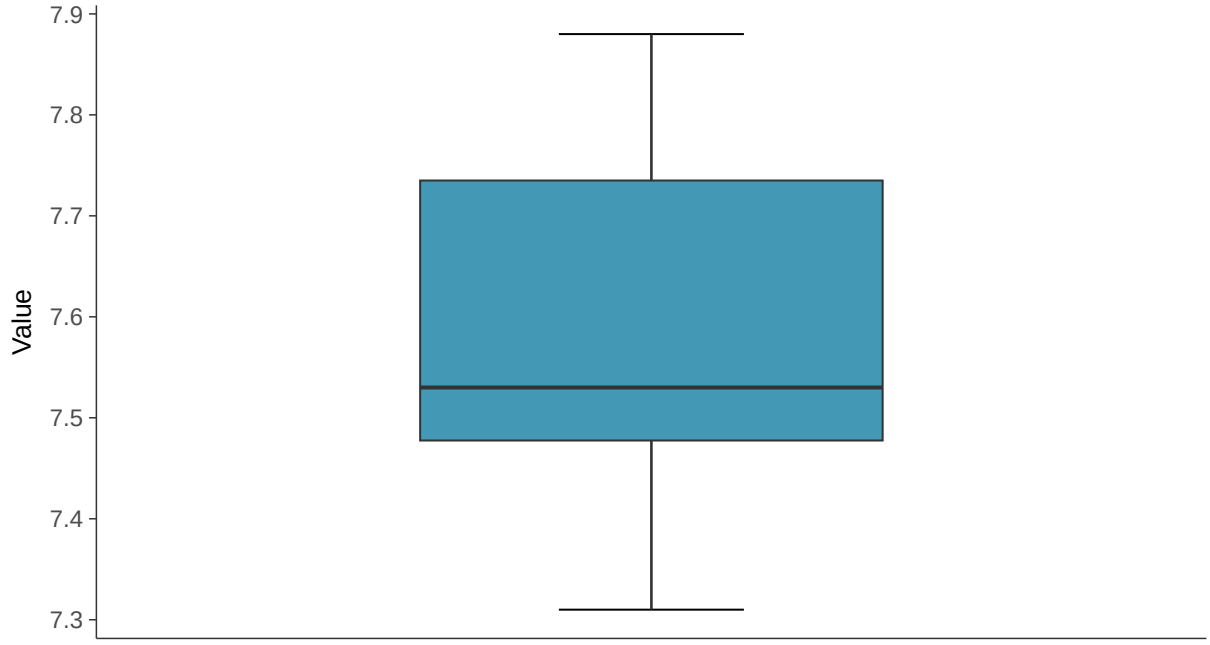
ID: 27_1_3_120





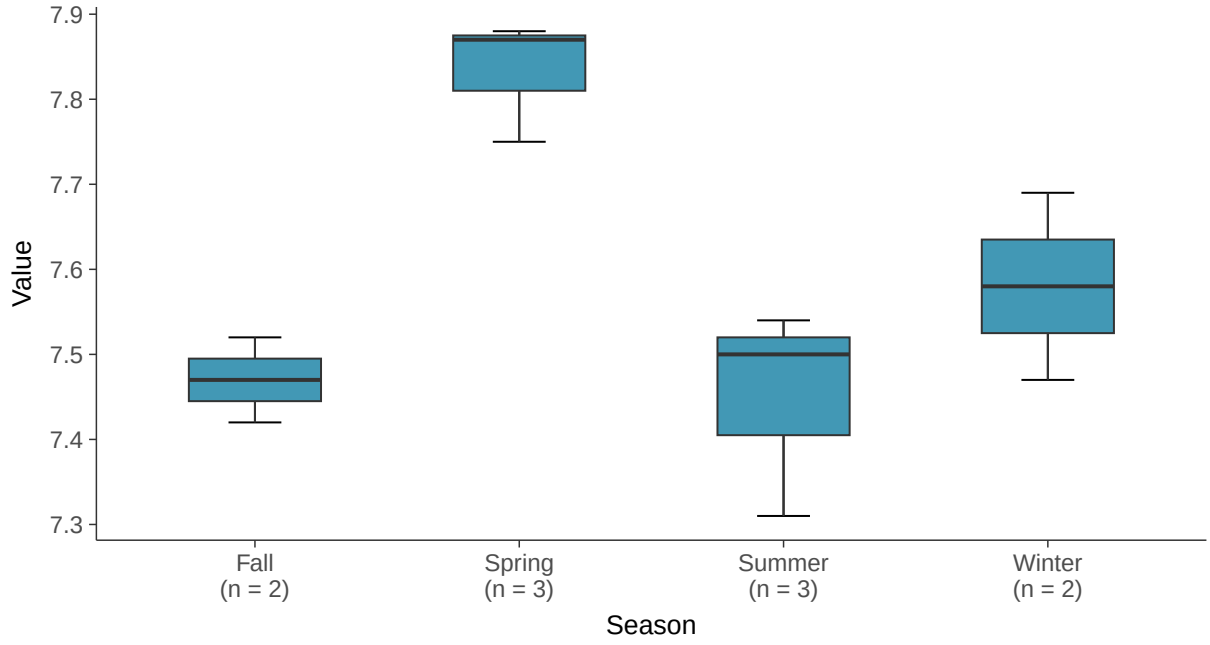
Boxplot

pH (field), MW-17 (su)



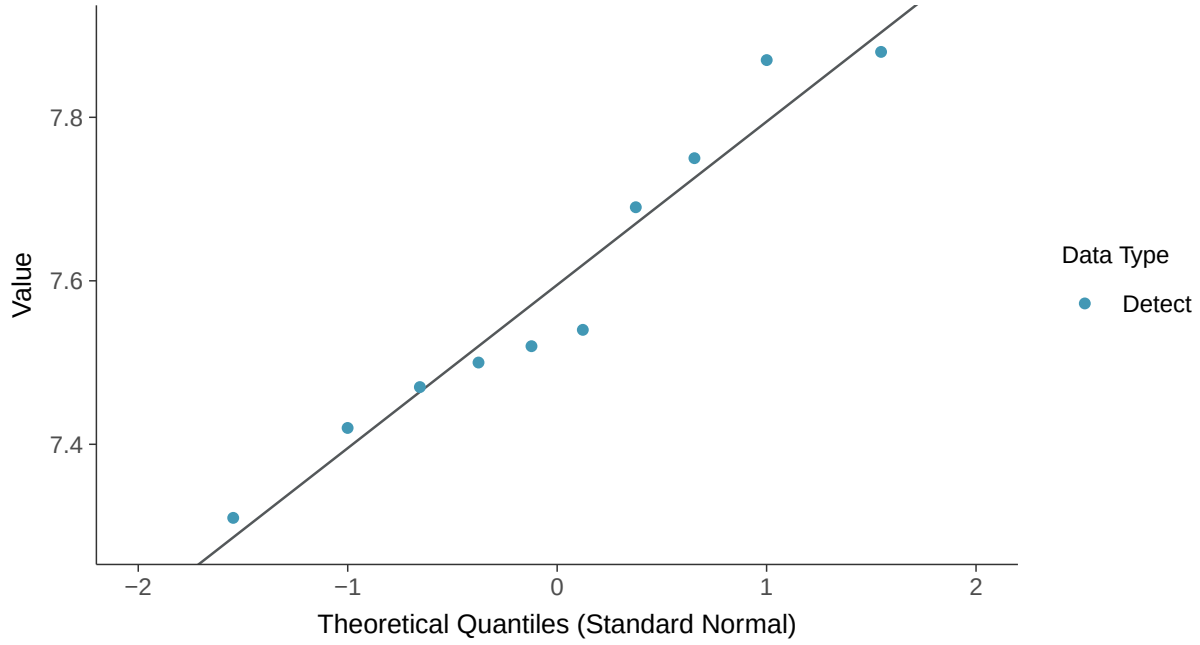
Boxplot by Season

pH (field), MW-17 (su)



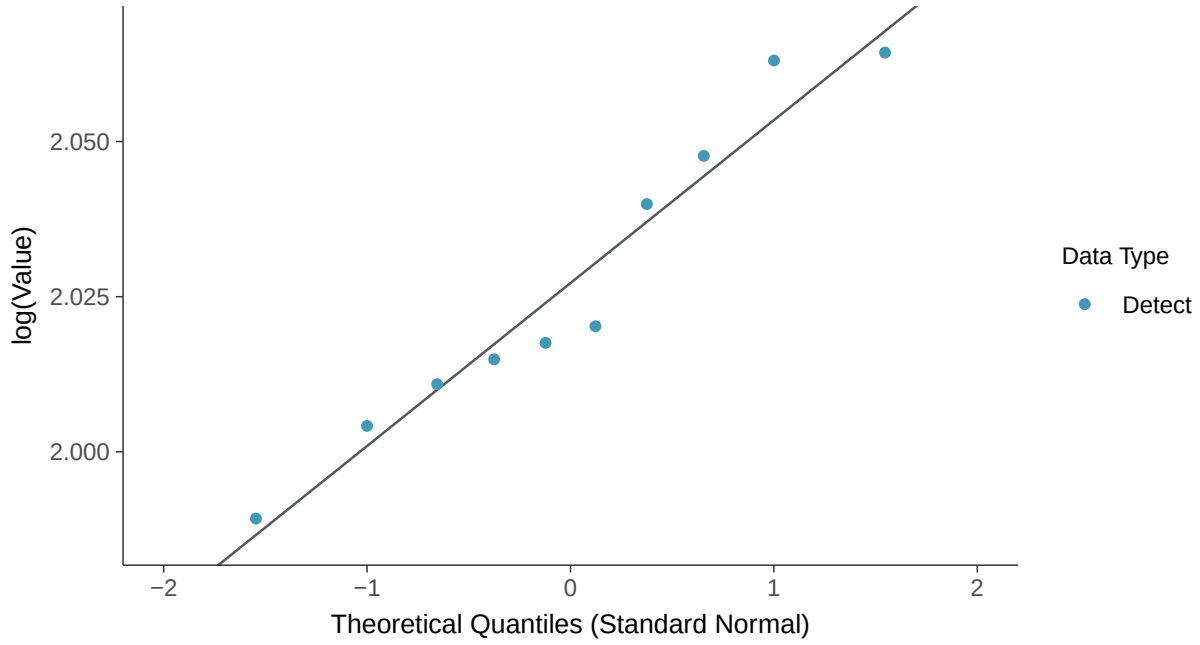
Normal Q-Q plot

pH (field), MW-17 (su)



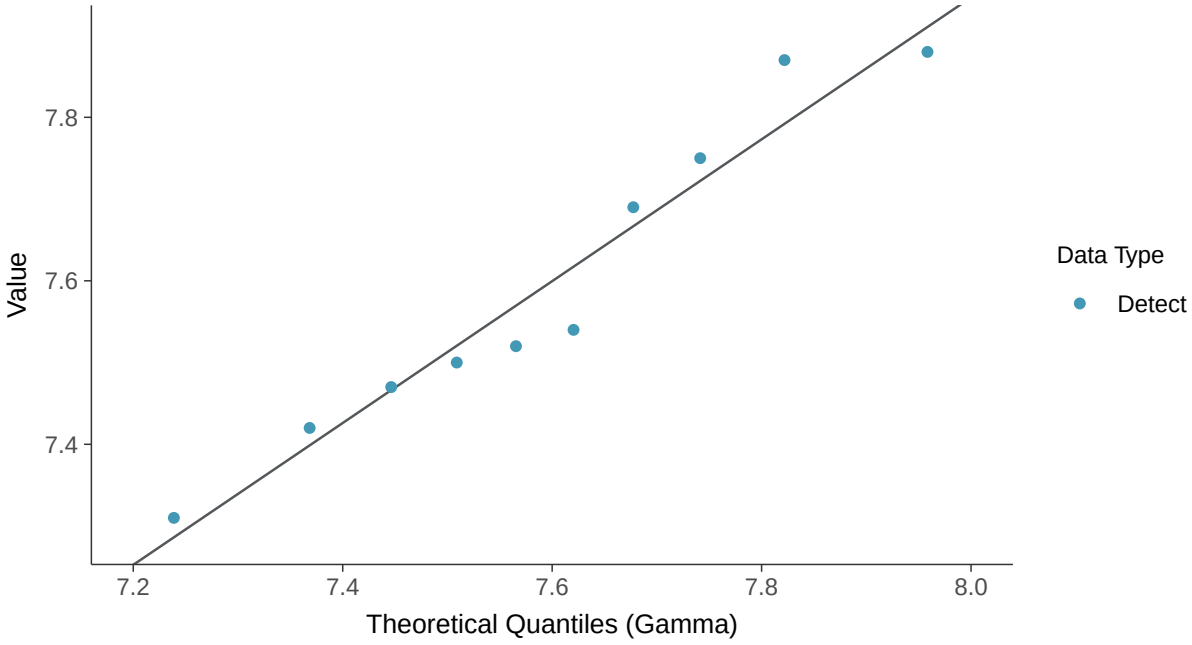
Lognormal Q-Q plot

pH (field), MW-17 (su)



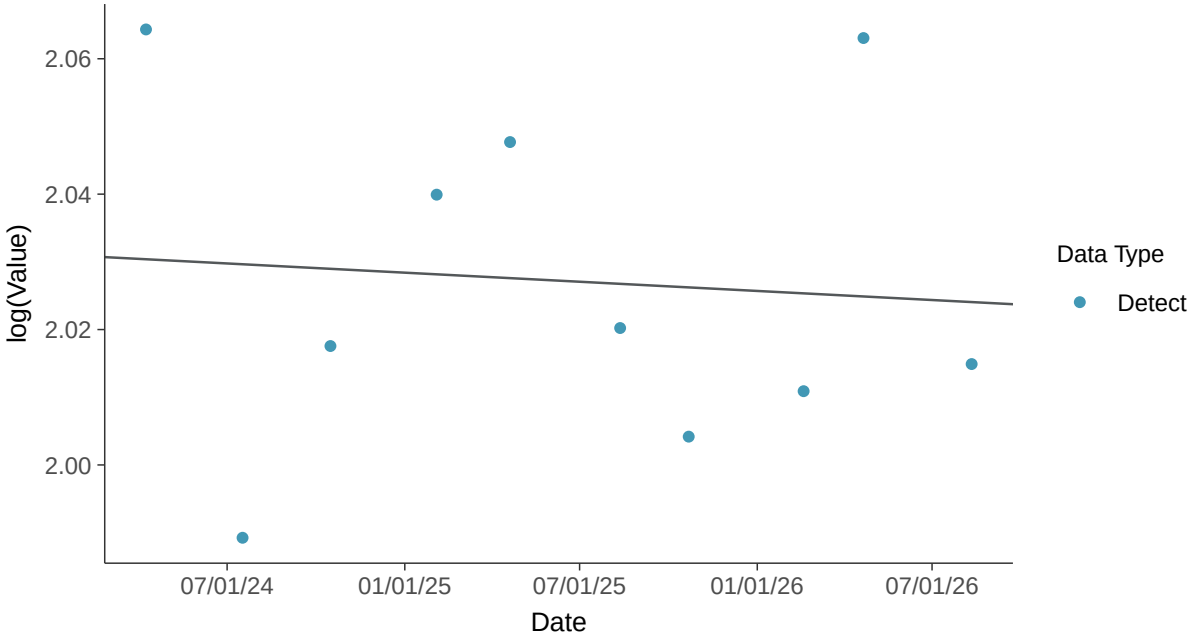
Gamma Q-Q plot

pH (field), MW-17 (su)



Trend Regression: Lognormal MLE

pH (field), MW-17 (su)

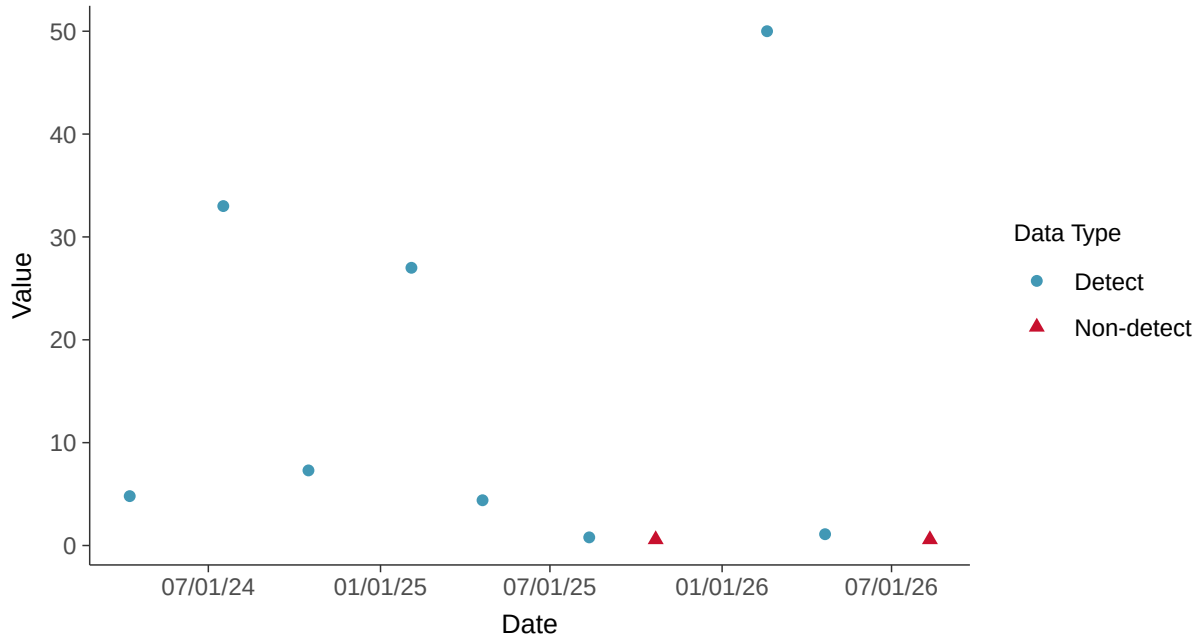


Appendix III: Sulfate (as SO4), MW-17

ID: 27_1_3_124

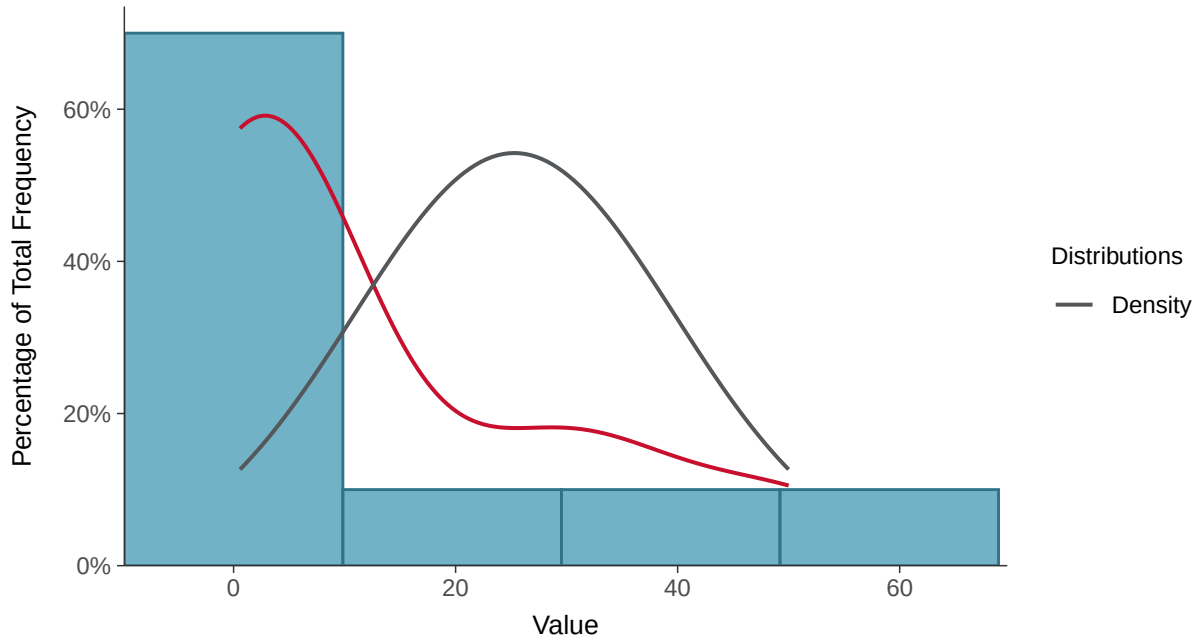
Scatter Plot

Sulfate (as SO4), MW-17 (mg/L)



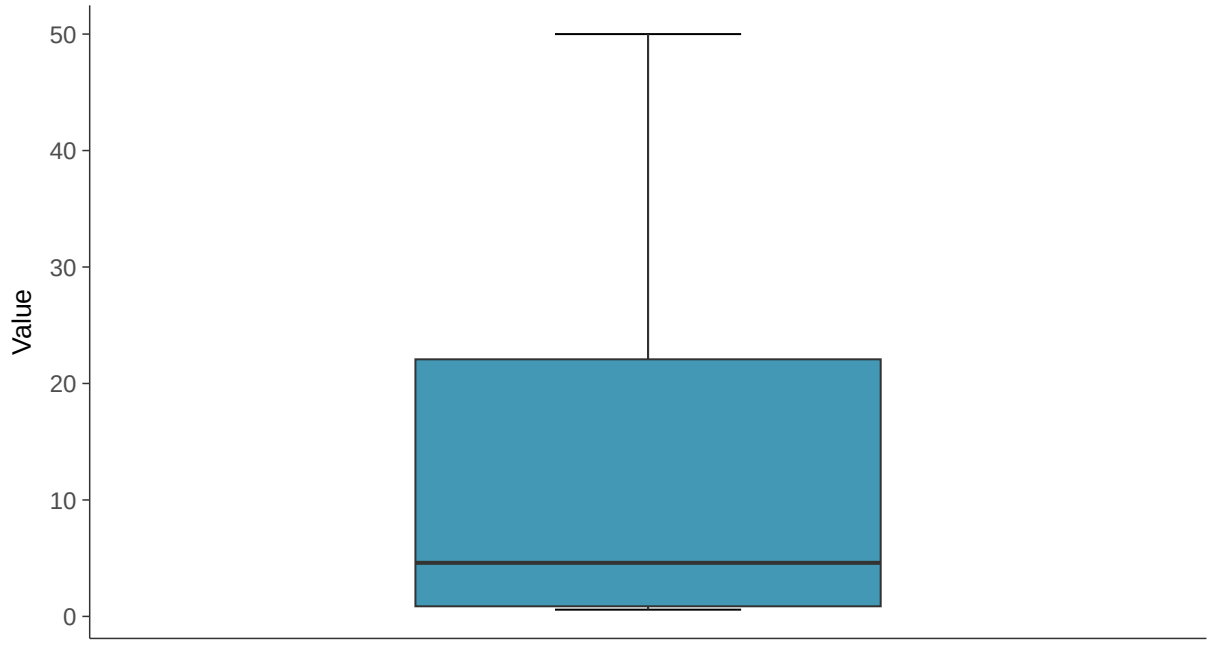
Histogram

Sulfate (as SO4), MW-17 (mg/L)



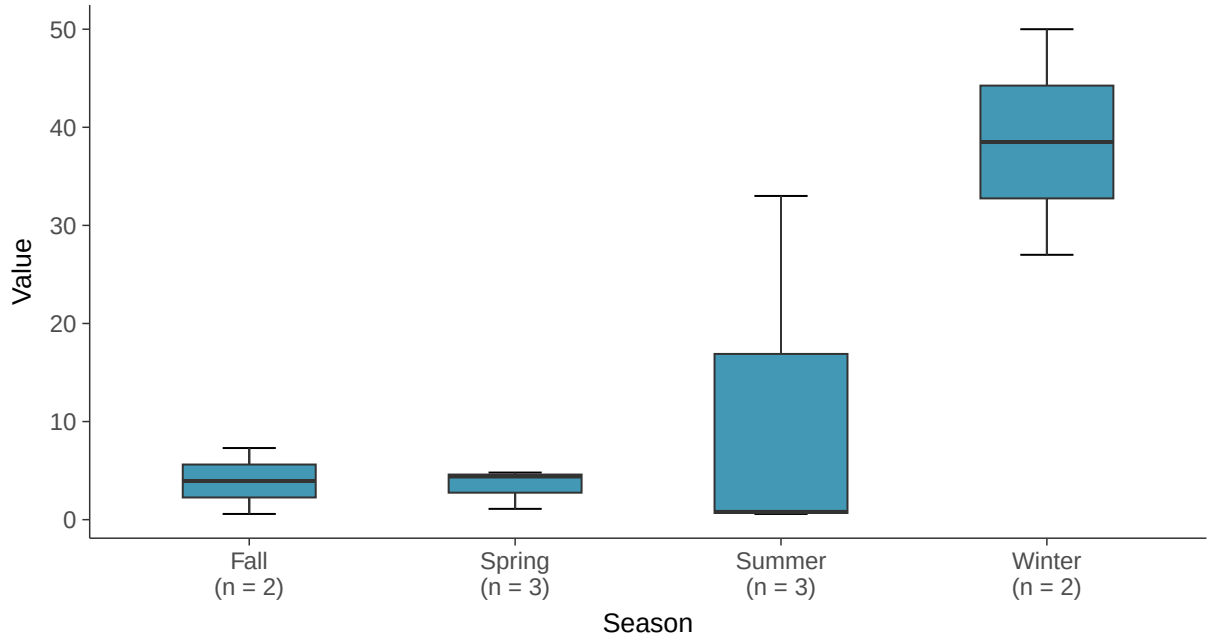
Boxplot

Sulfate (as SO4), MW-17 (mg/L)



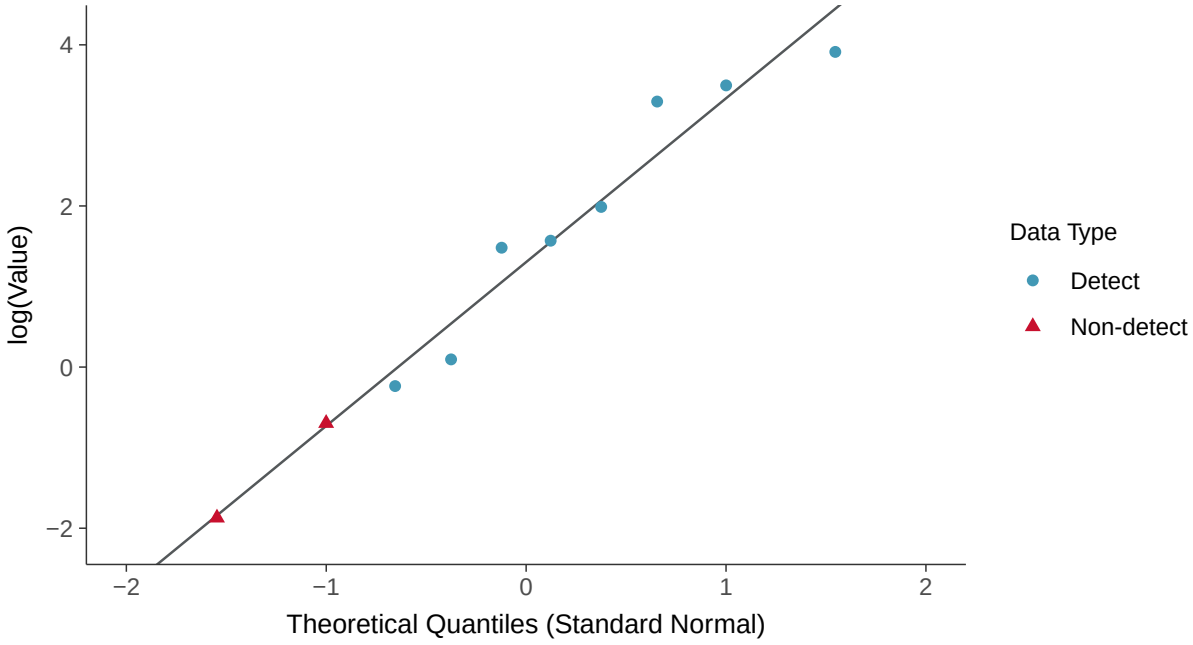
Boxplot by Season

Sulfate (as SO4), MW-17 (mg/L)



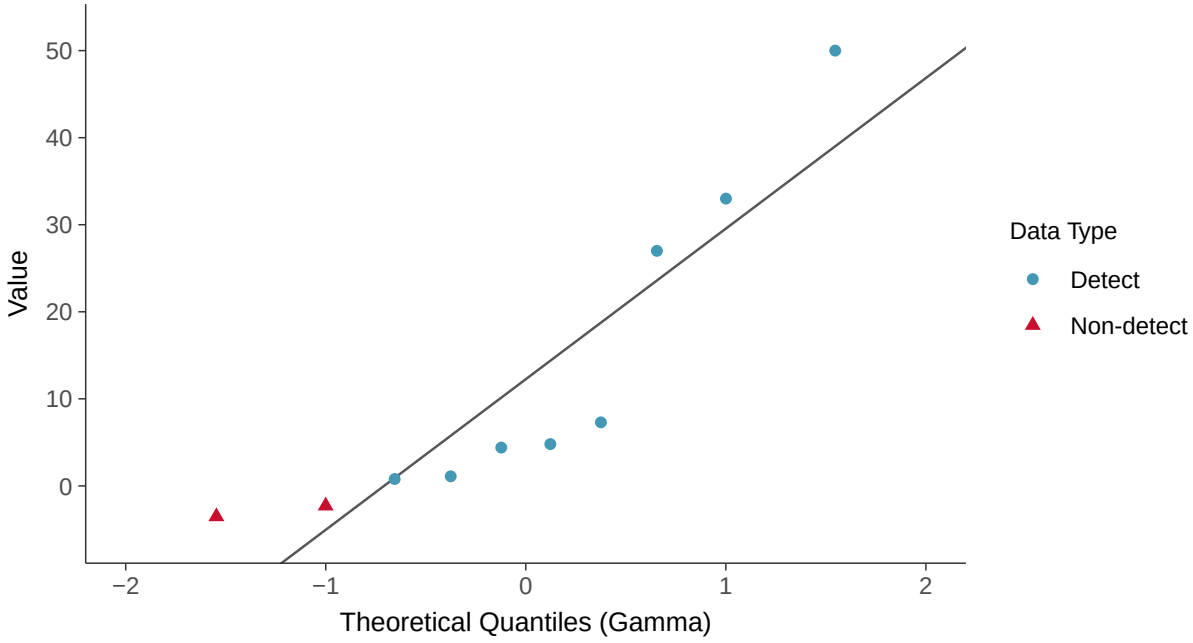
Lognormal Q-Q plot using ROS Imputed Estimates

Sulfate (as SO4), MW-17 (mg/L)



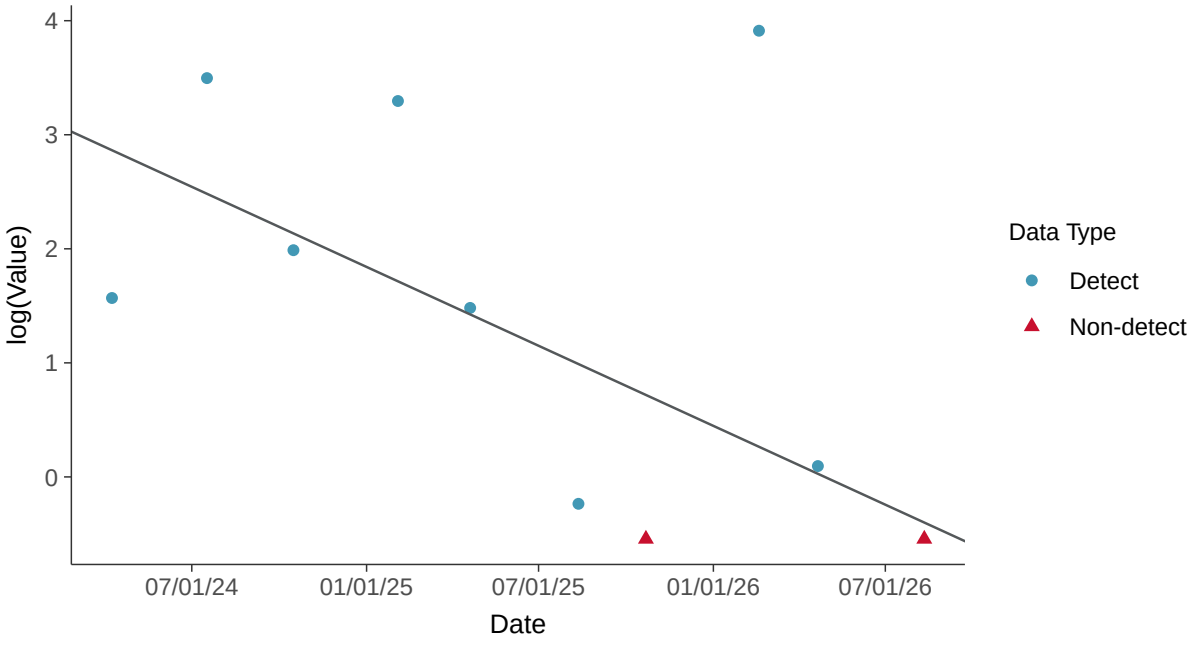
Gamma Q-Q plot using ROS Imputed Estimates

Sulfate (as SO4), MW-17 (mg/L)



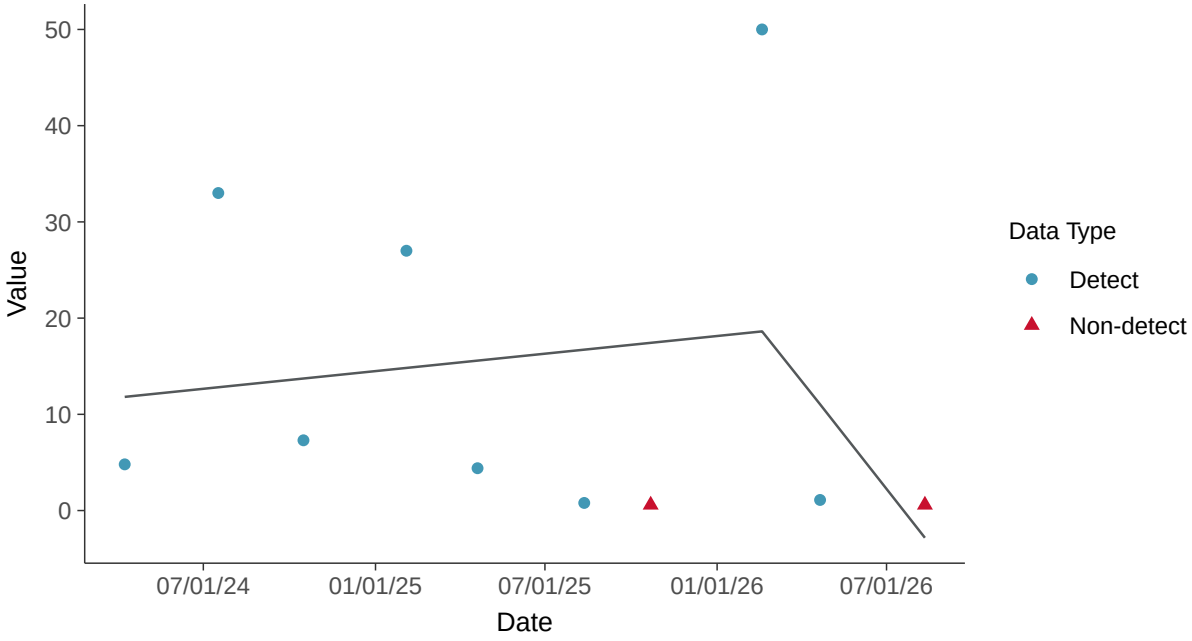
Trend Regression: Lognormal MLE

Sulfate (as SO4), MW-17 (mg/L)



Trend Regression: Piecewise Linear-Linear

Sulfate (as SO4), MW-17 (mg/L)

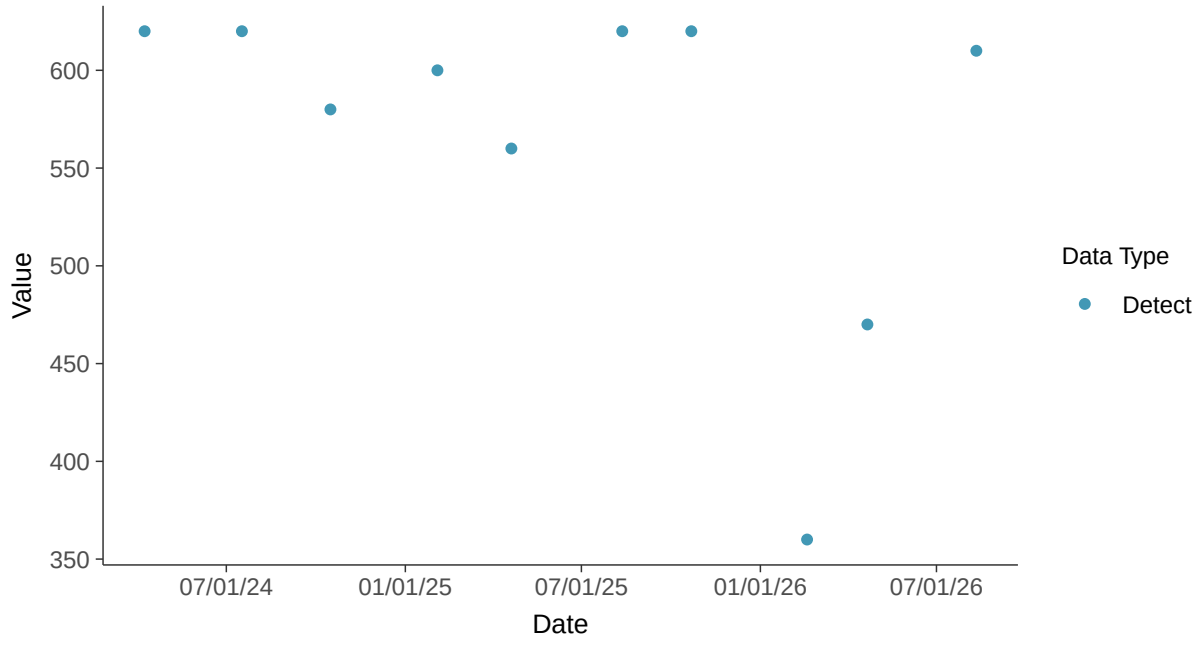


Appendix III: Total Dissolved Solids, MW-17

ID: 27_1_3_126

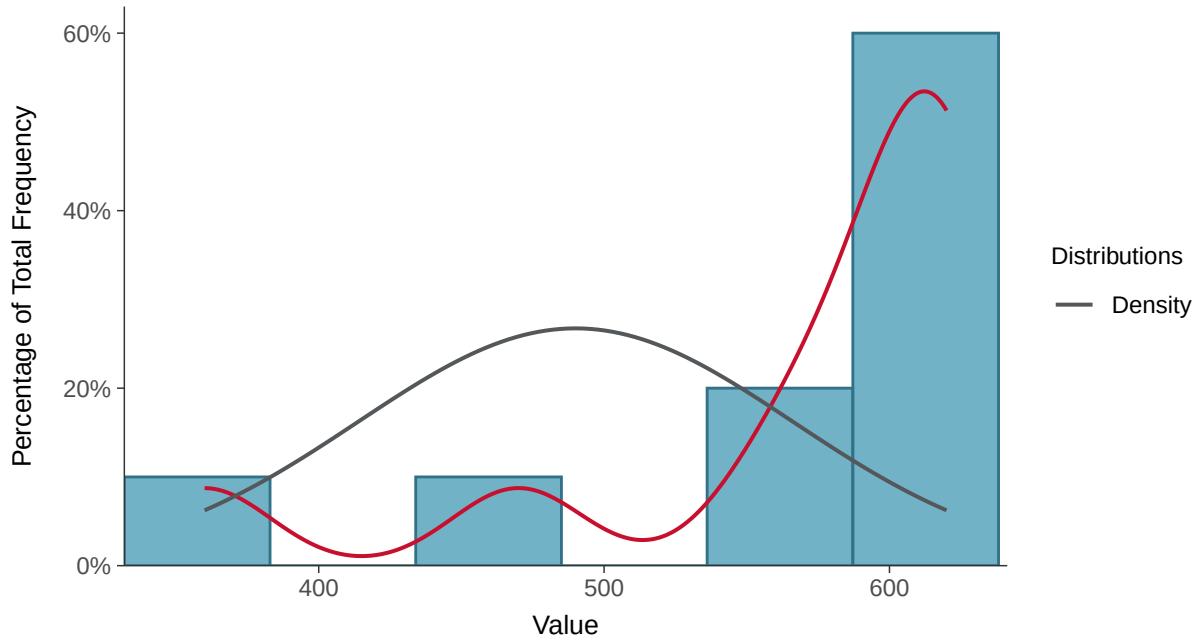
Scatter Plot

Total Dissolved Solids, MW-17 (mg/L)



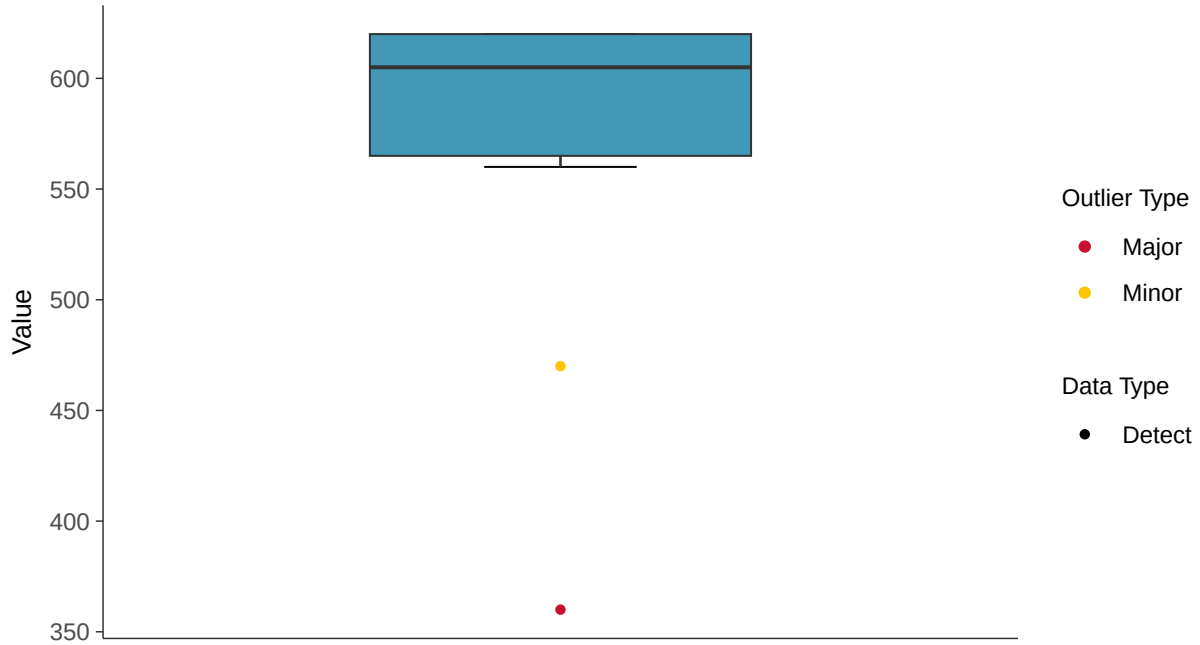
Histogram

Total Dissolved Solids, MW-17 (mg/L)



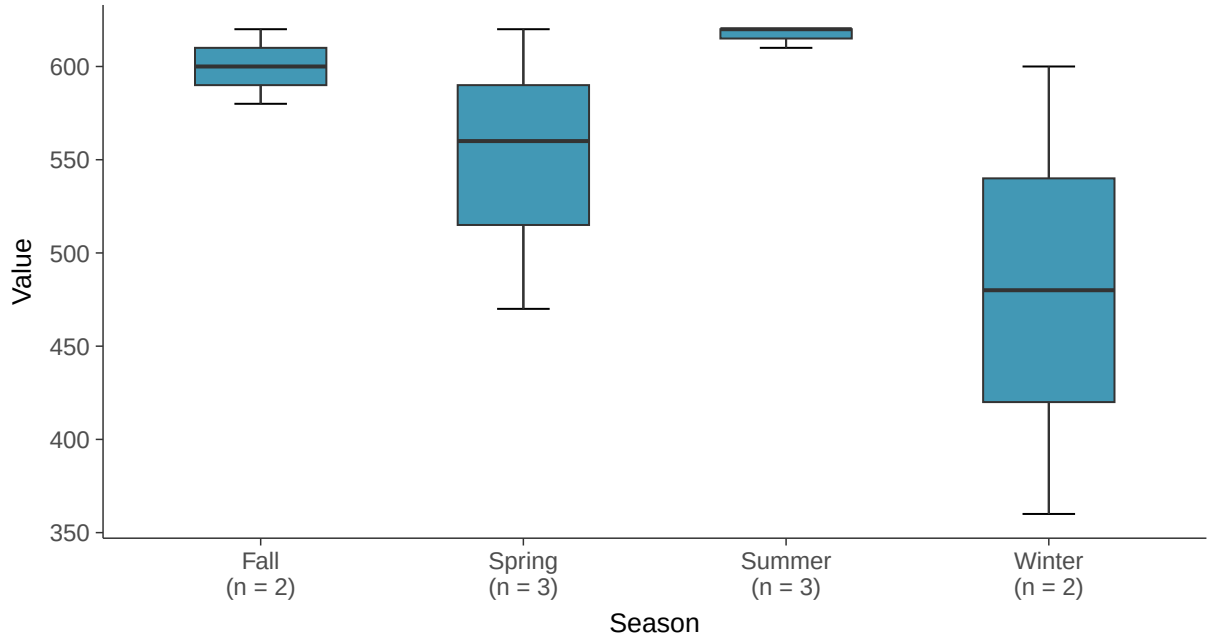
Boxplot

Total Dissolved Solids, MW-17 (mg/L)



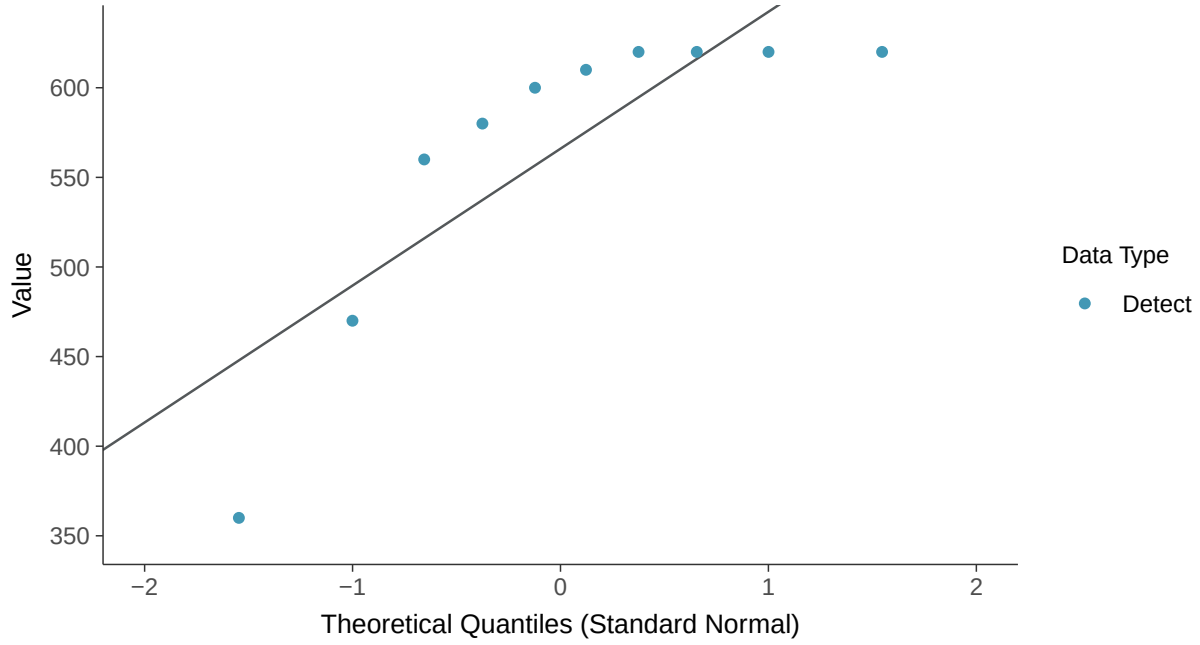
Boxplot by Season

Total Dissolved Solids, MW-17 (mg/L)



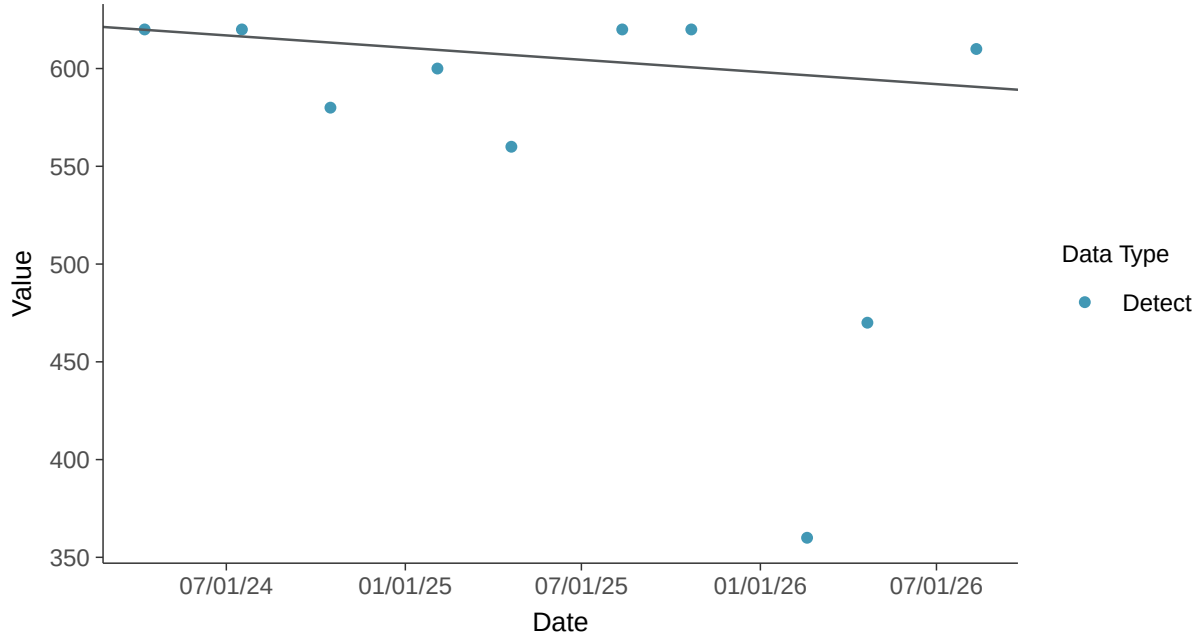
Normal Q-Q plot

Total Dissolved Solids, MW-17 (mg/L)



Trend Regression: Mann-Kendall/Theil-Sen Estimate

Total Dissolved Solids, MW-17 (mg/L)

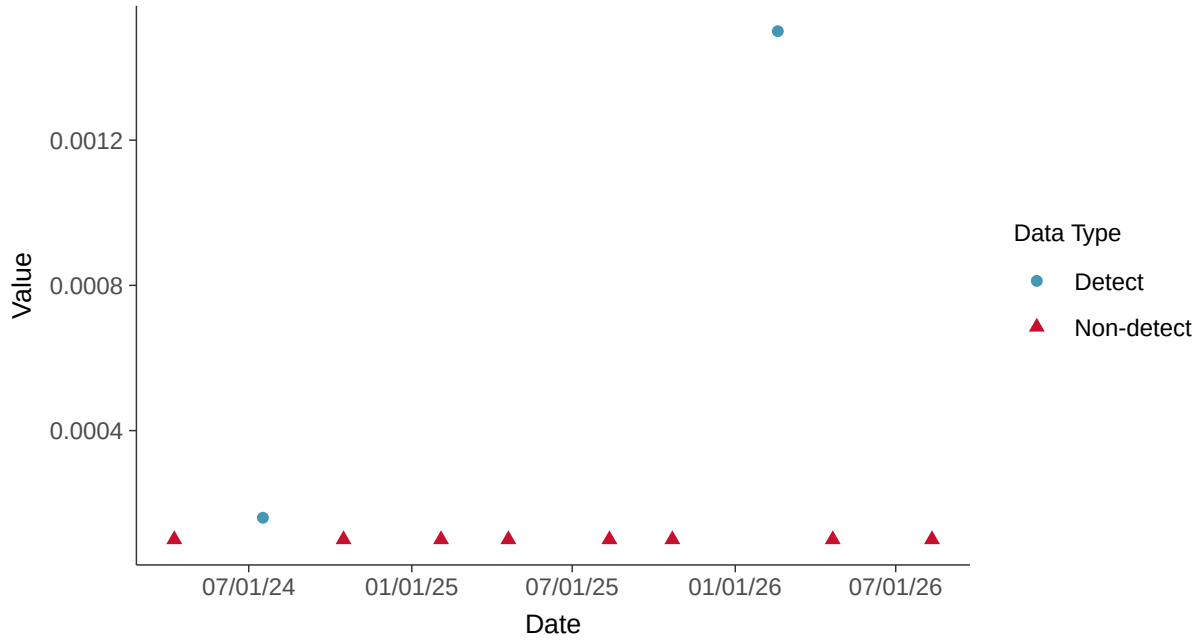


Appendix IV: Antimony, MW-17

ID: 27_1_4_101

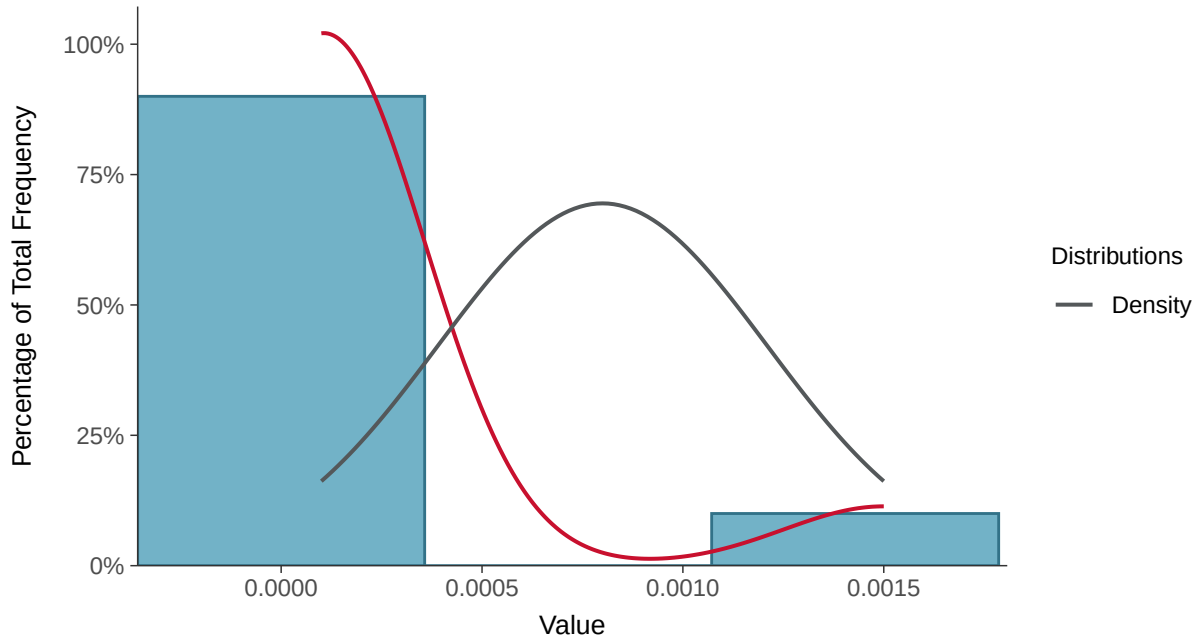
Scatter Plot

Antimony, MW-17 (mg/L)



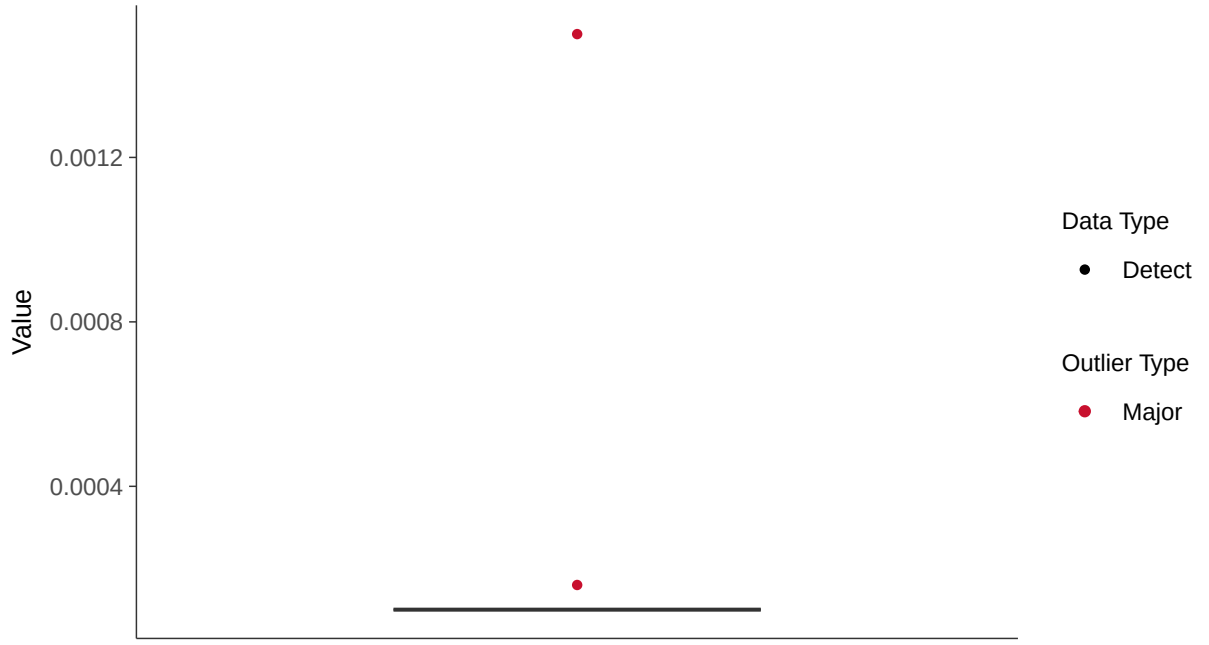
Histogram

Antimony, MW-17 (mg/L)



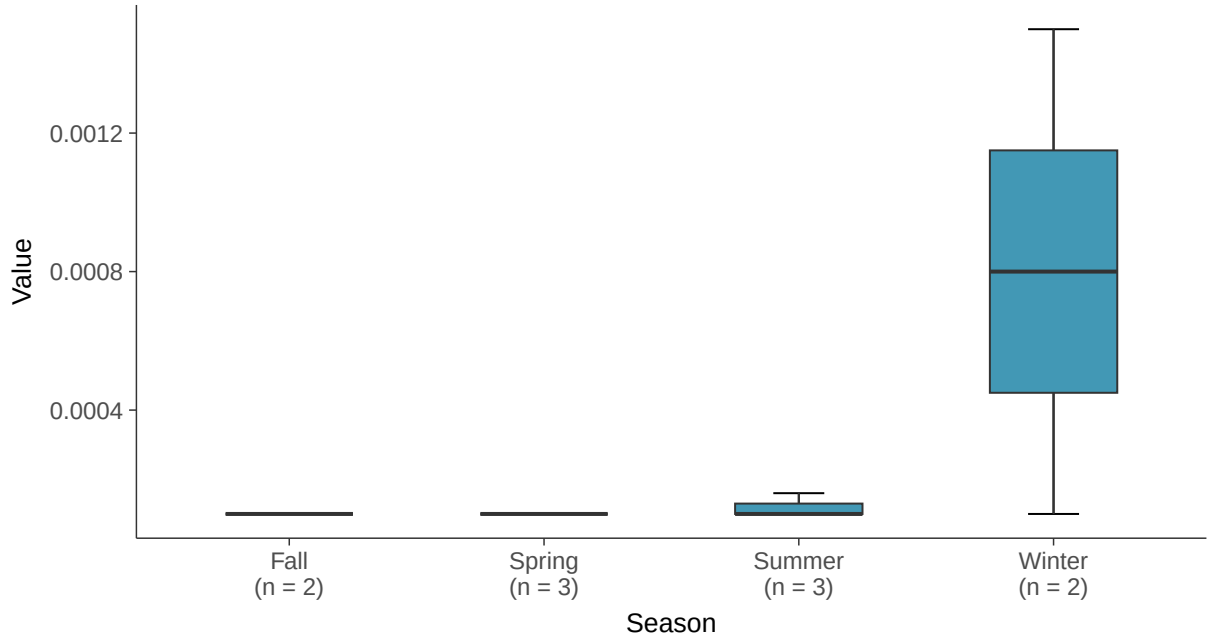
Boxplot

Antimony, MW-17 (mg/L)



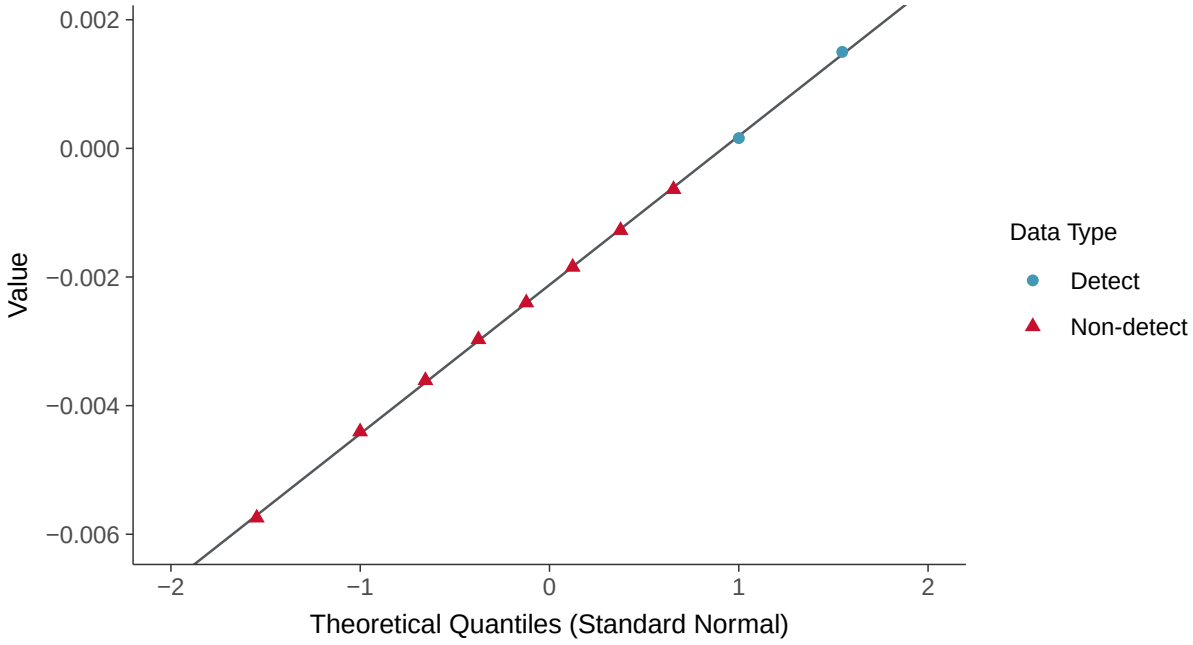
Boxplot by Season

Antimony, MW-17 (mg/L)



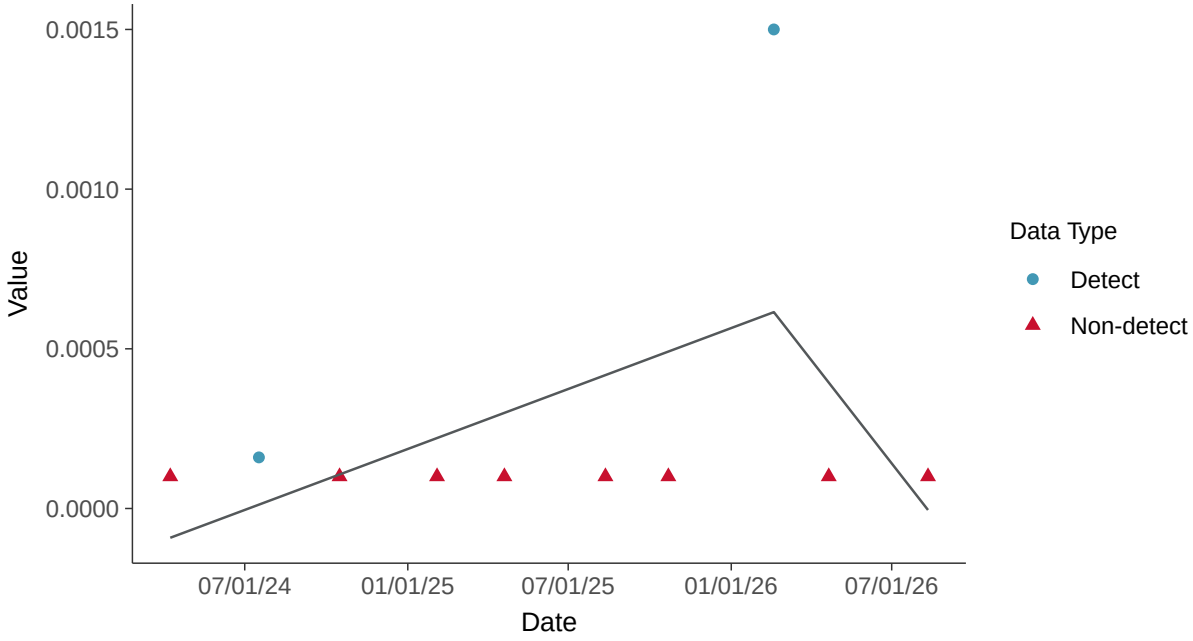
Normal Q-Q plot using ROS Imputed Estimates

Antimony, MW-17 (mg/L)



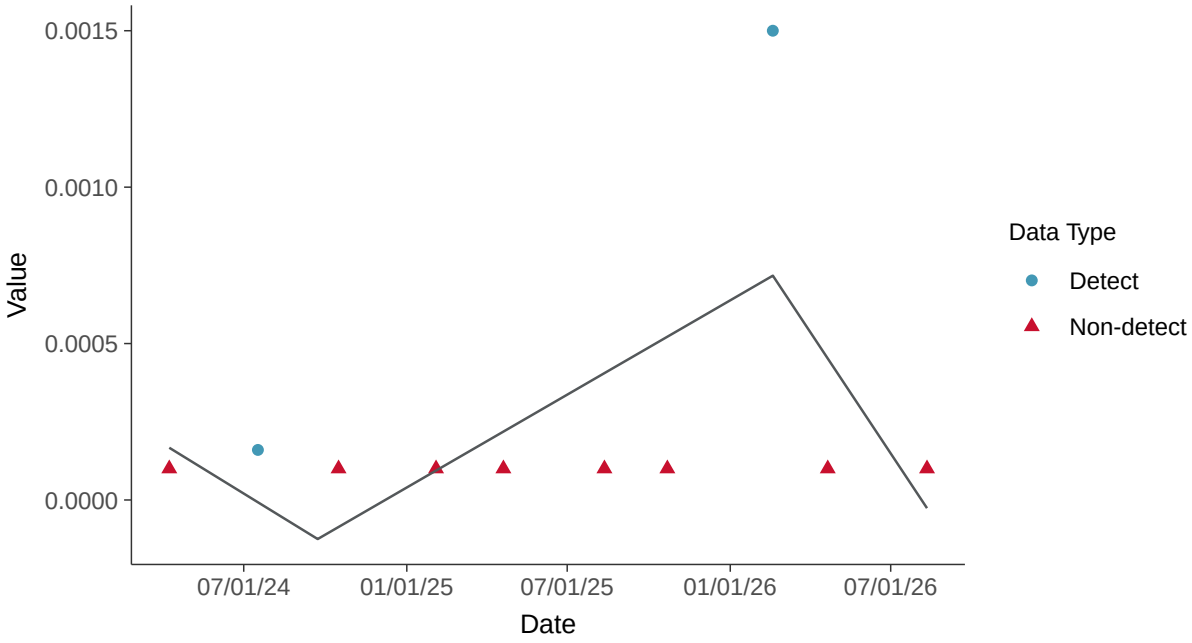
Trend Regression: Piecewise Linear-Linear

Antimony, MW-17 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Antimony, MW-17 (mg/L)

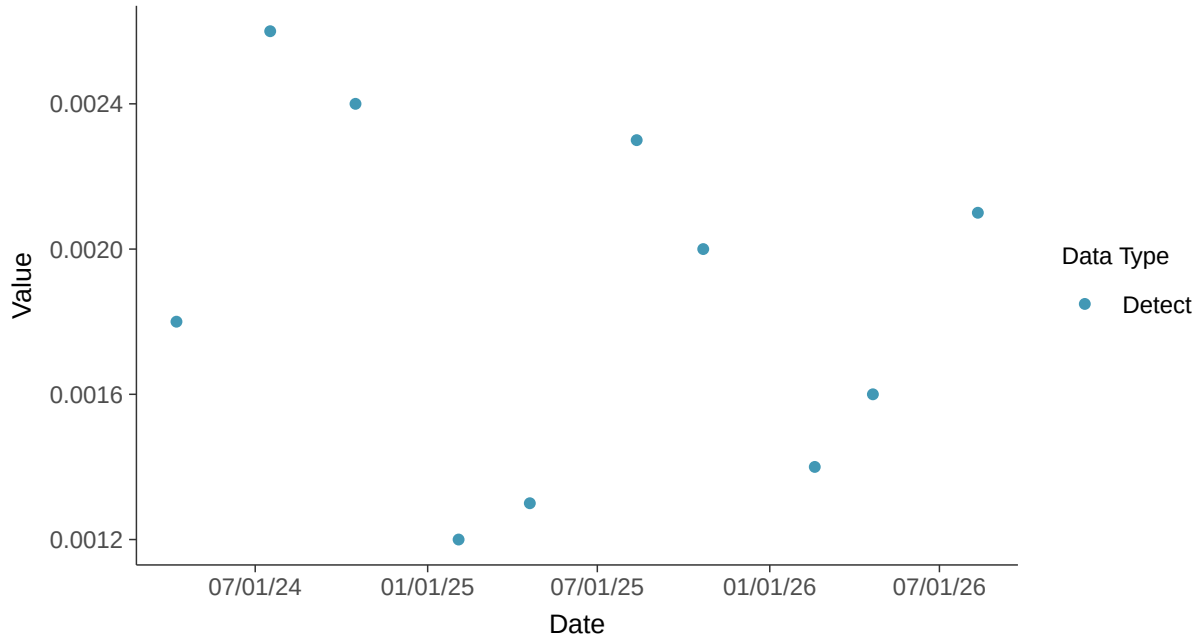


Appendix IV: Arsenic, MW-17

ID: 27_1_4_102

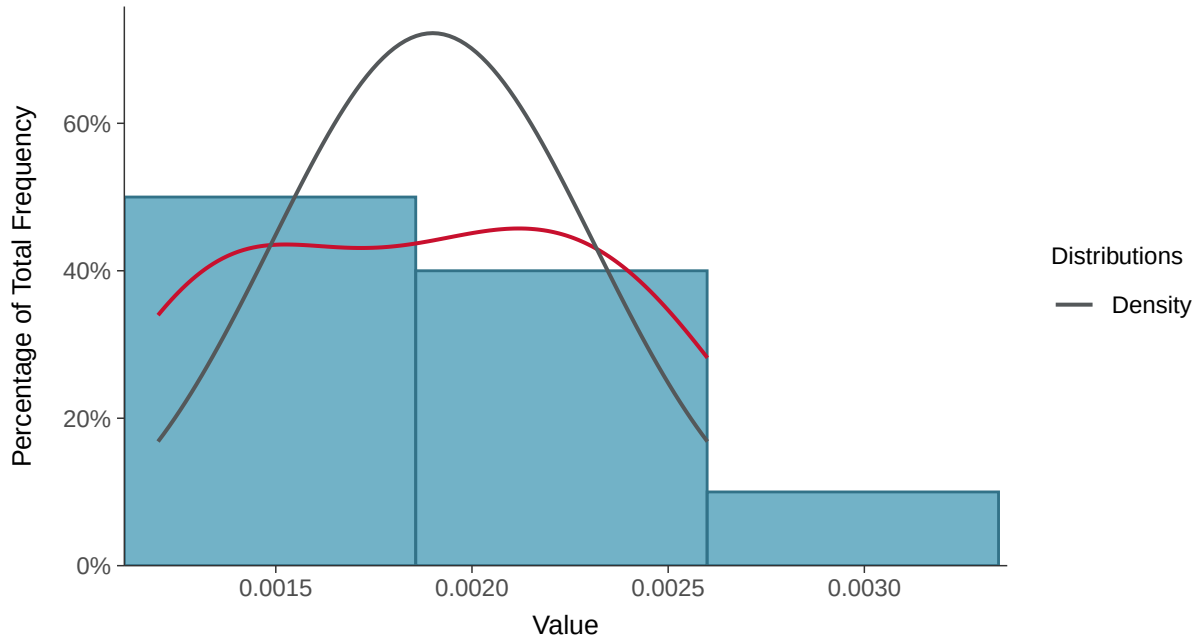
Scatter Plot

Arsenic, MW-17 (mg/L)



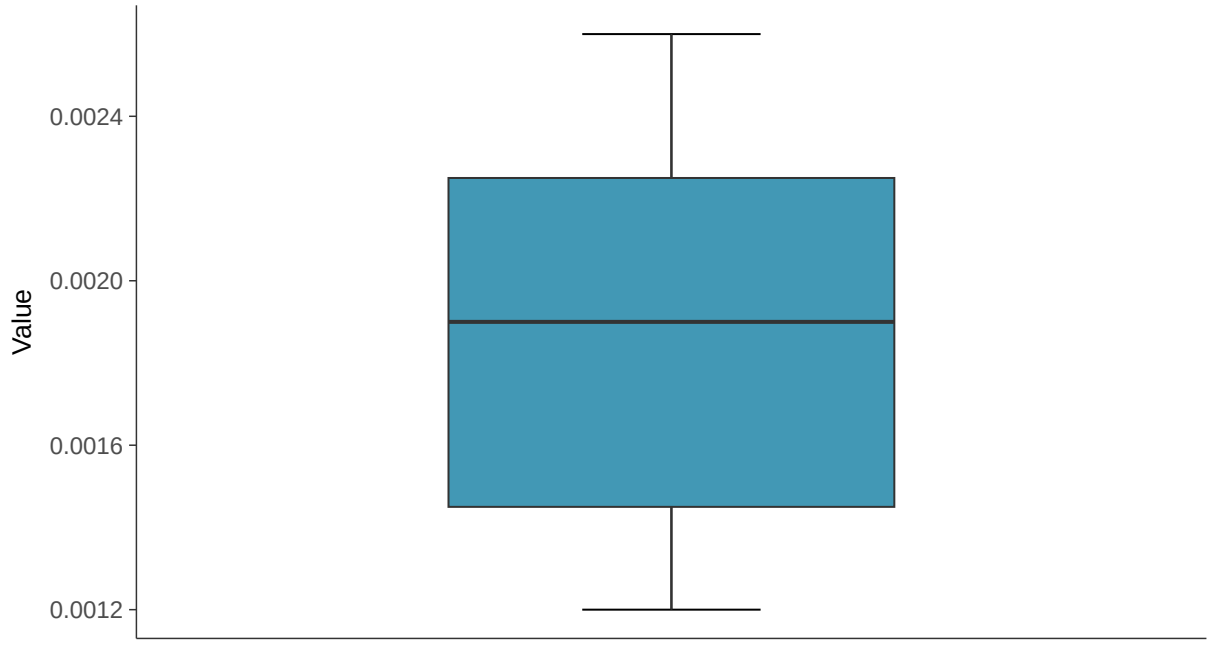
Histogram

Arsenic, MW-17 (mg/L)



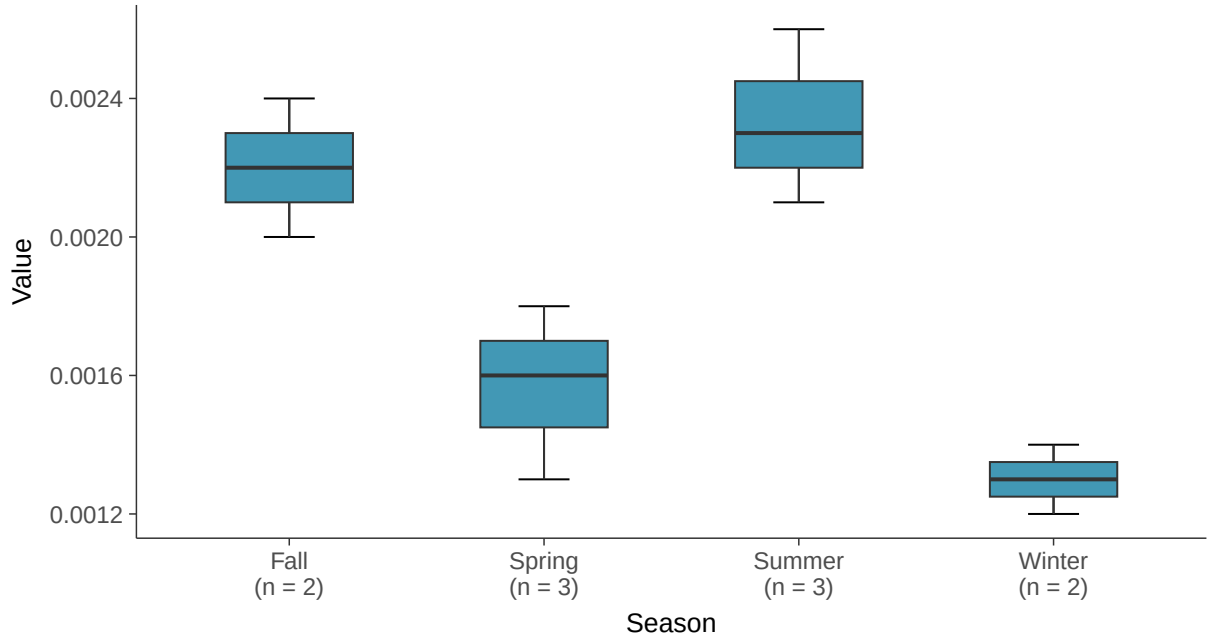
Boxplot

Arsenic, MW-17 (mg/L)



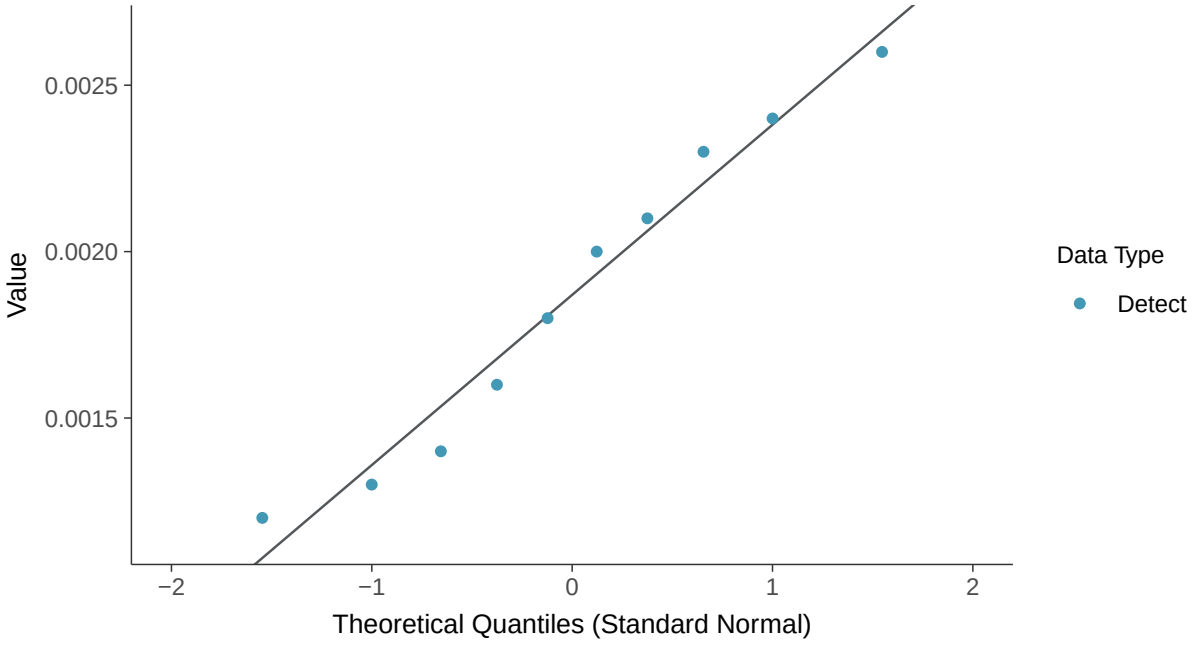
Boxplot by Season

Arsenic, MW-17 (mg/L)



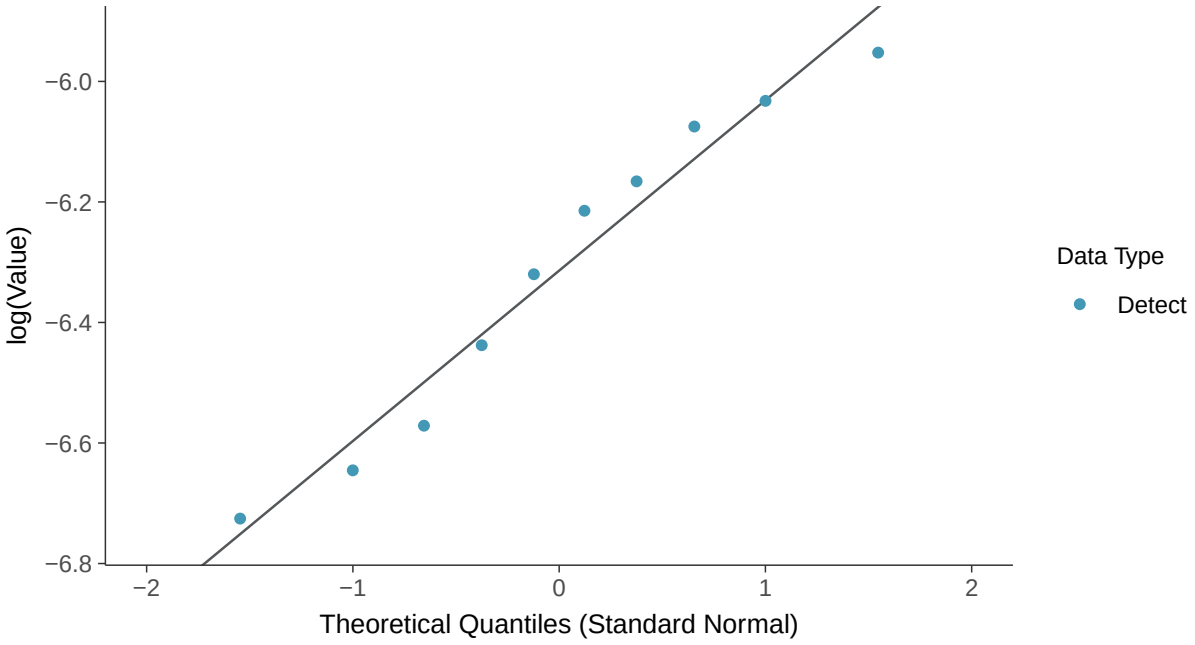
Normal Q-Q plot

Arsenic, MW-17 (mg/L)



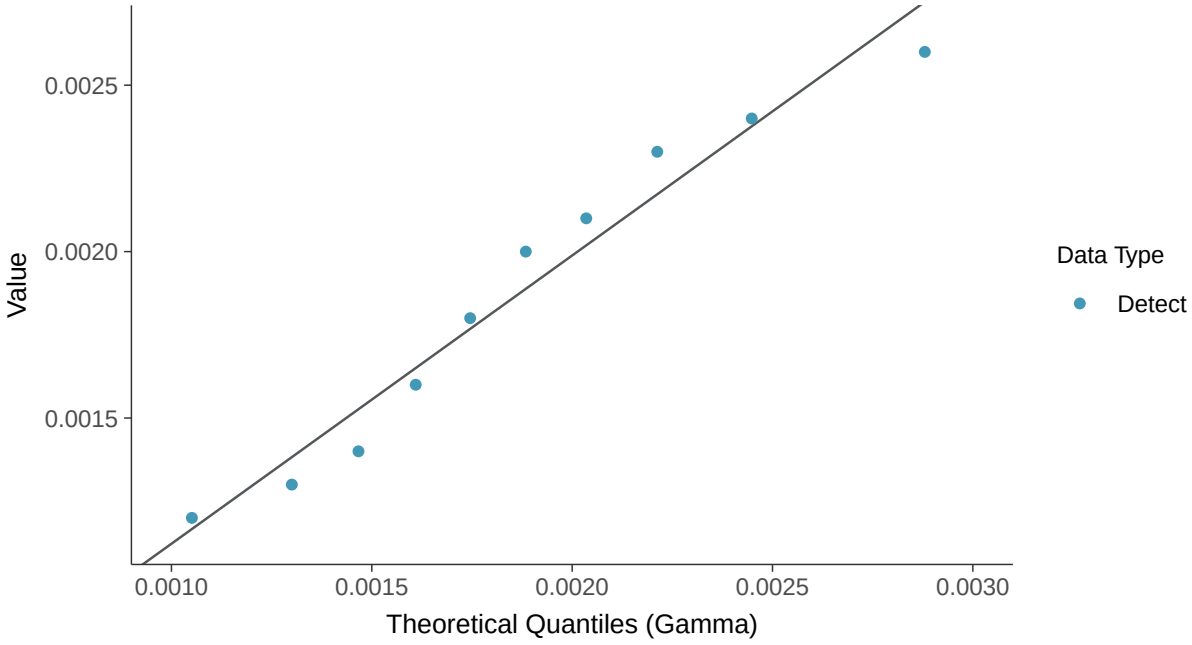
Lognormal Q-Q plot

Arsenic, MW-17 (mg/L)



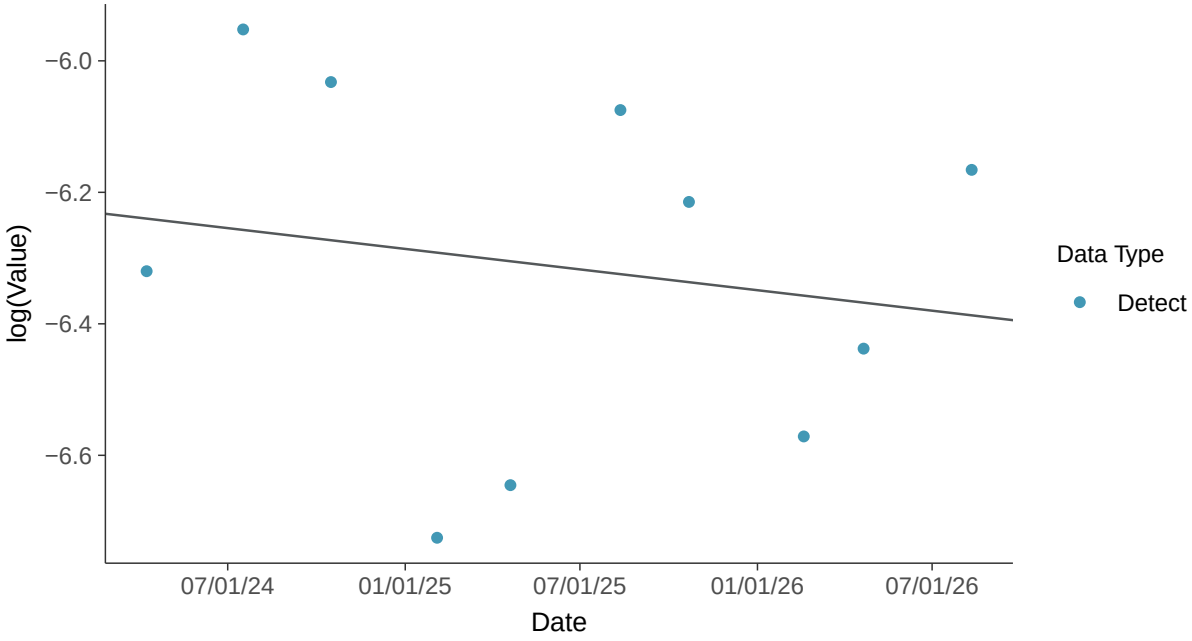
Gamma Q-Q plot

Arsenic, MW-17 (mg/L)



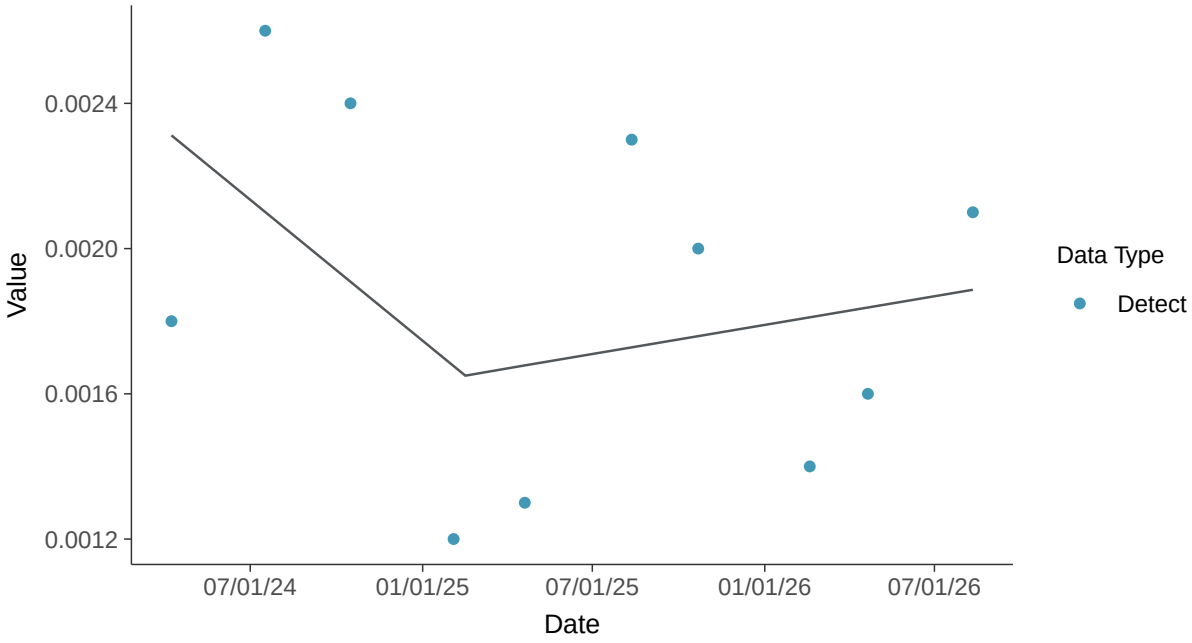
Trend Regression: Lognormal MLE

Arsenic, MW-17 (mg/L)



Trend Regression: Piecewise Linear-Linear

Arsenic, MW-17 (mg/L)

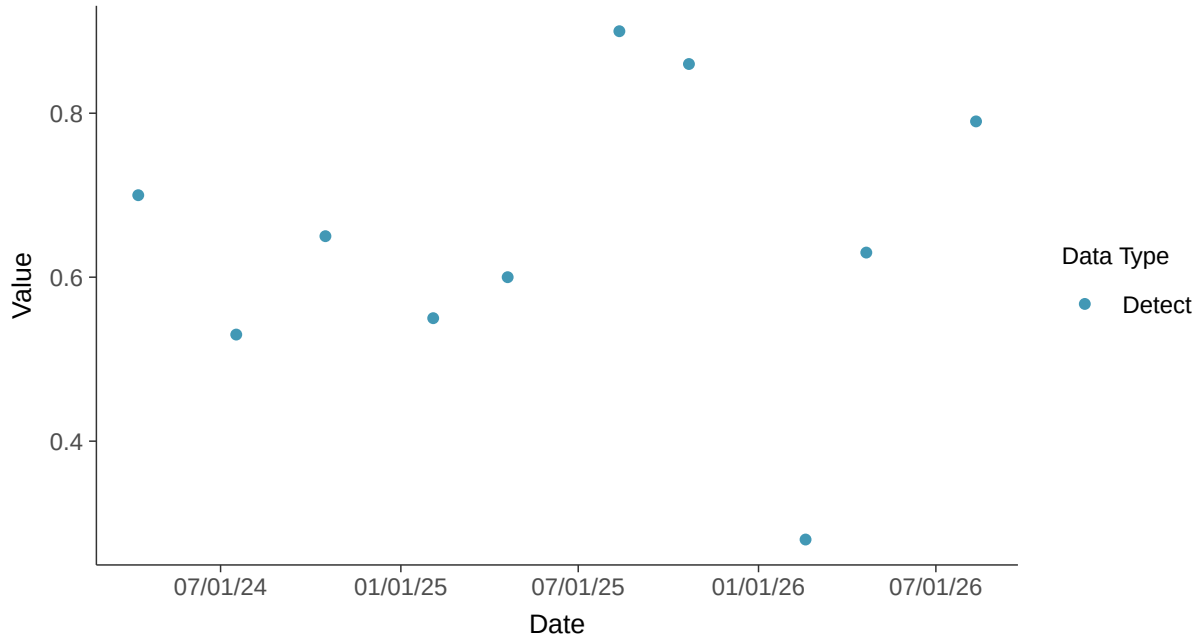


Appendix IV: Barium, MW-17

ID: 27_1_4_103

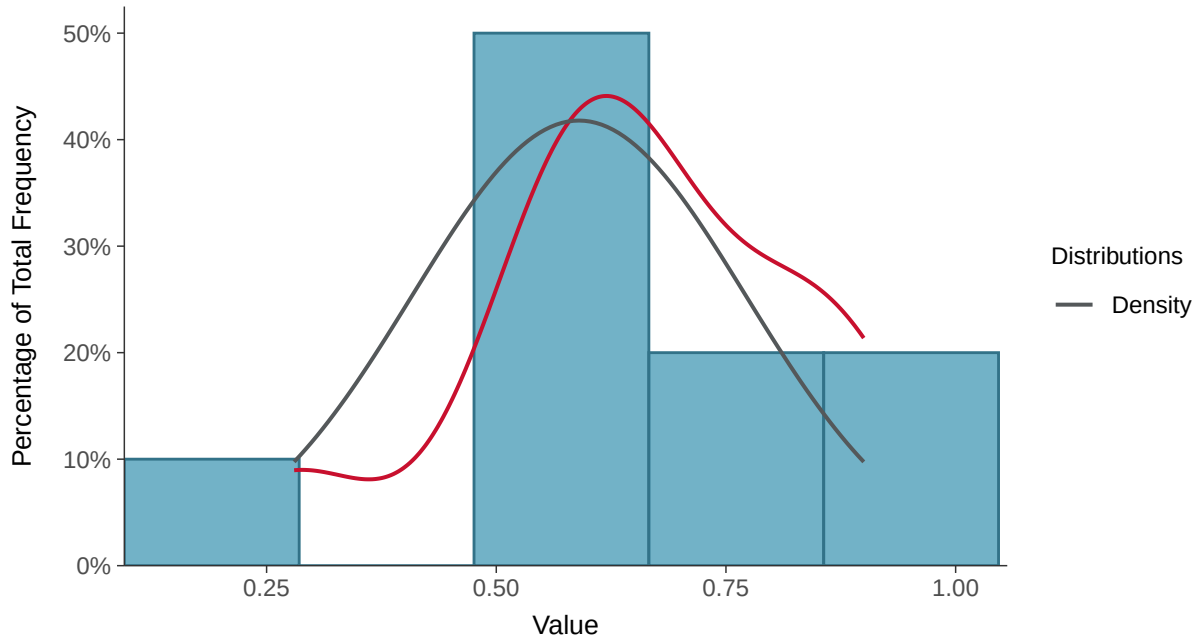
Scatter Plot

Barium, MW-17 (mg/L)



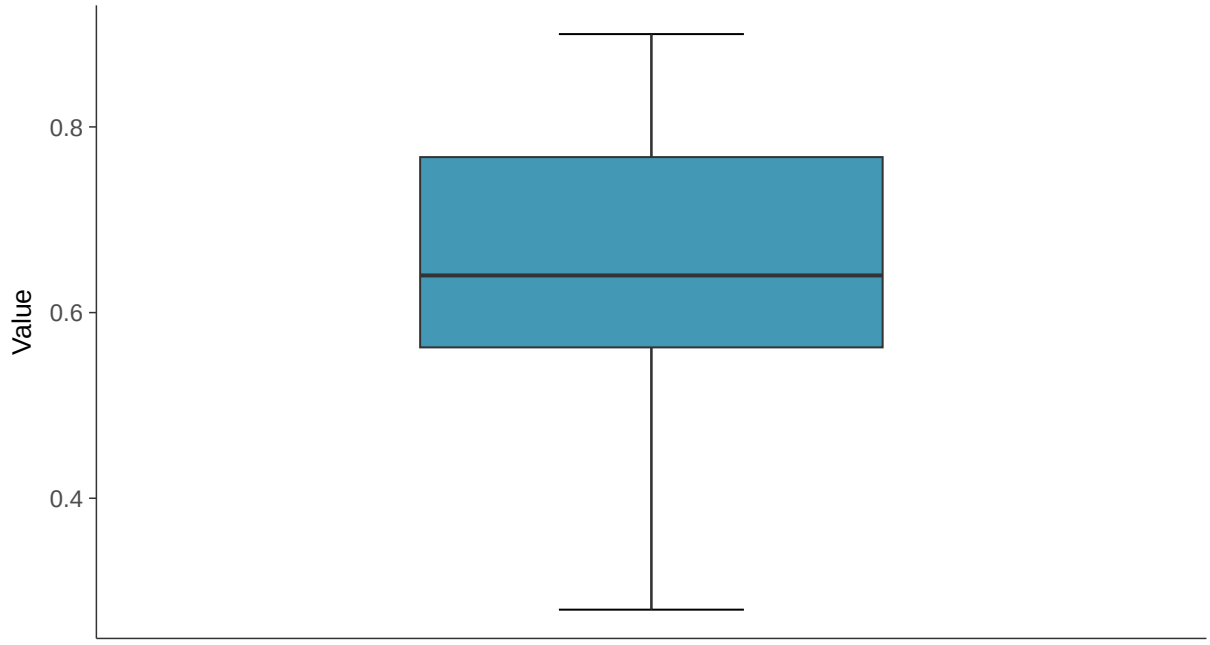
Histogram

Barium, MW-17 (mg/L)



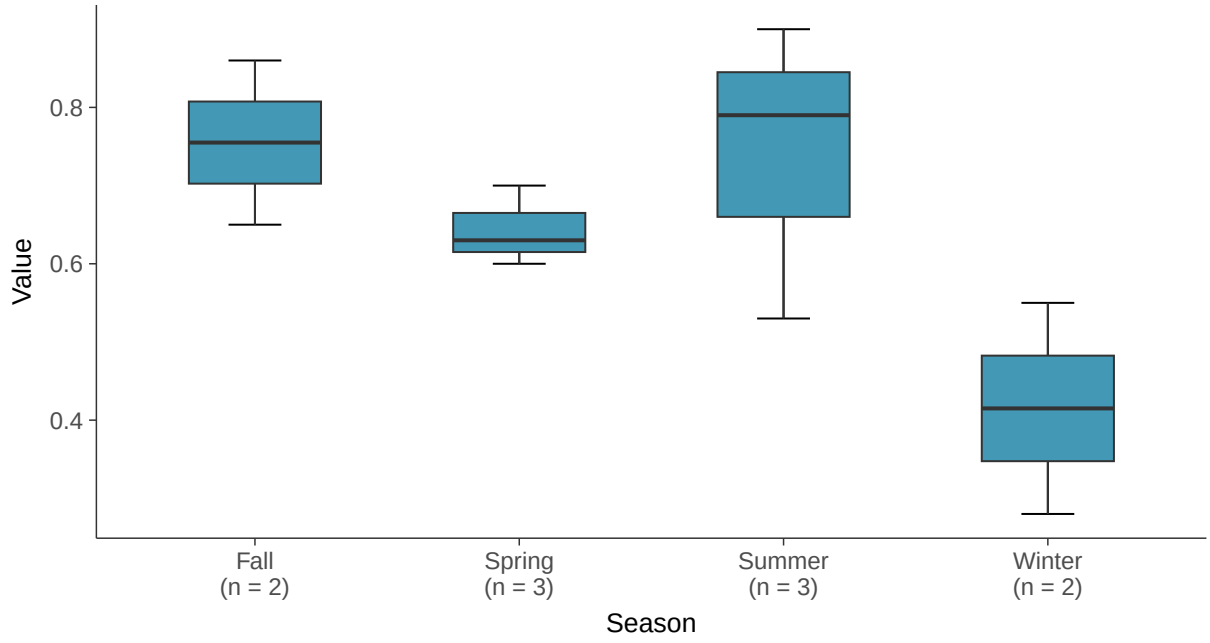
Boxplot

Barium, MW-17 (mg/L)



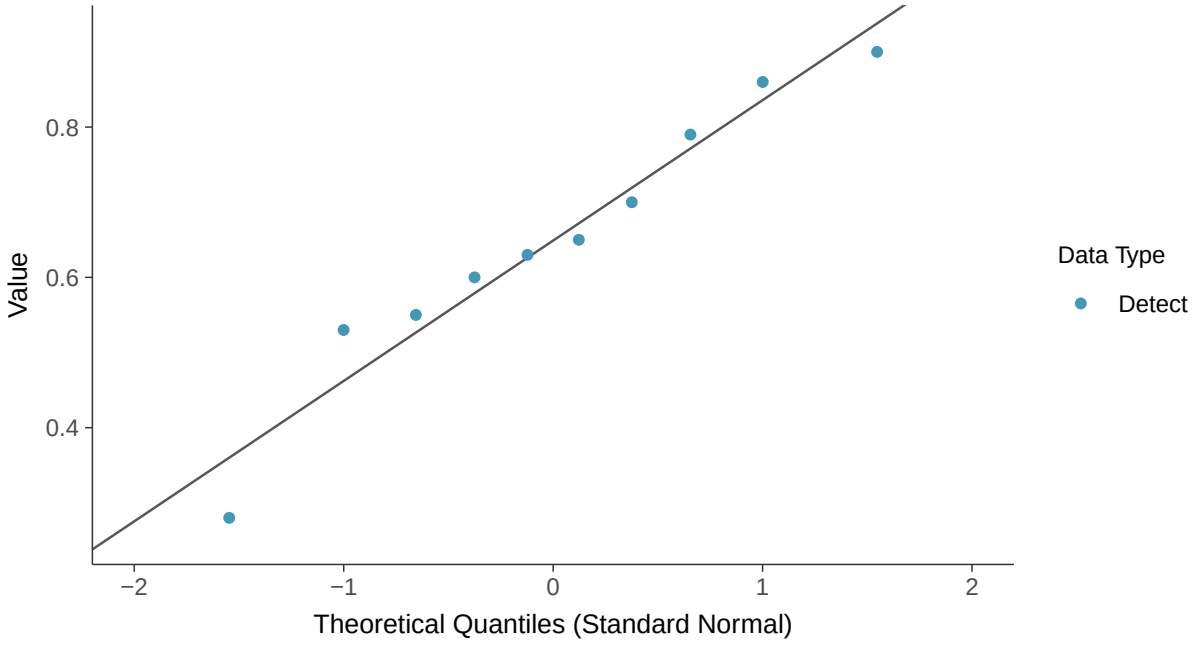
Boxplot by Season

Barium, MW-17 (mg/L)



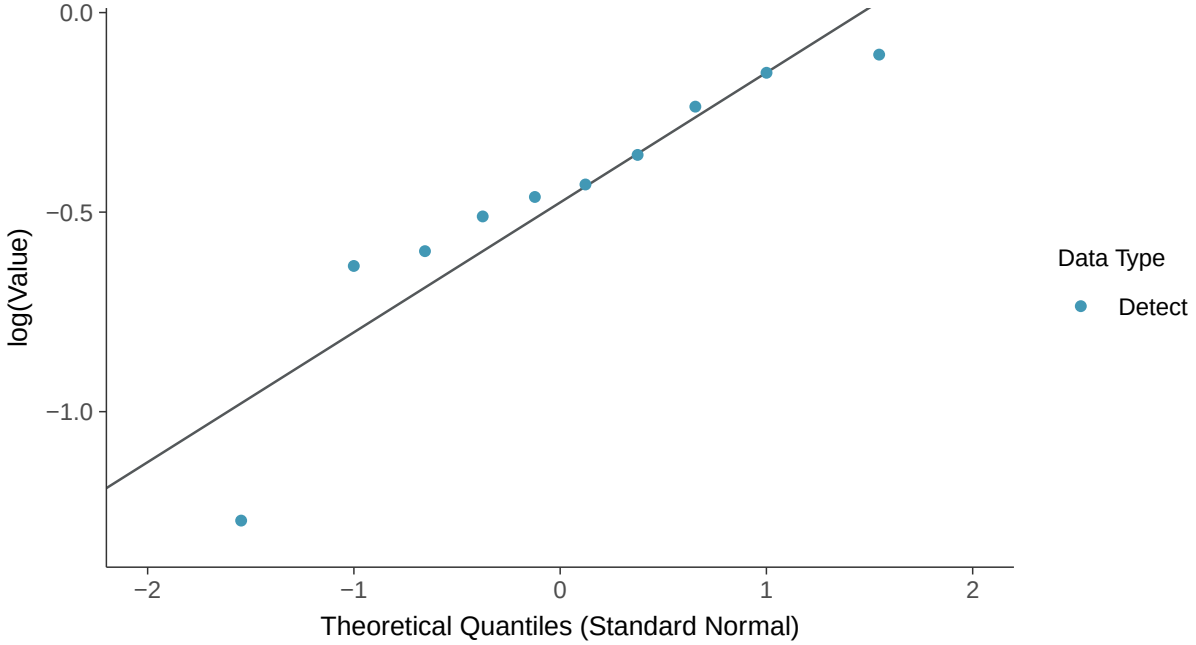
Normal Q-Q plot

Barium, MW-17 (mg/L)



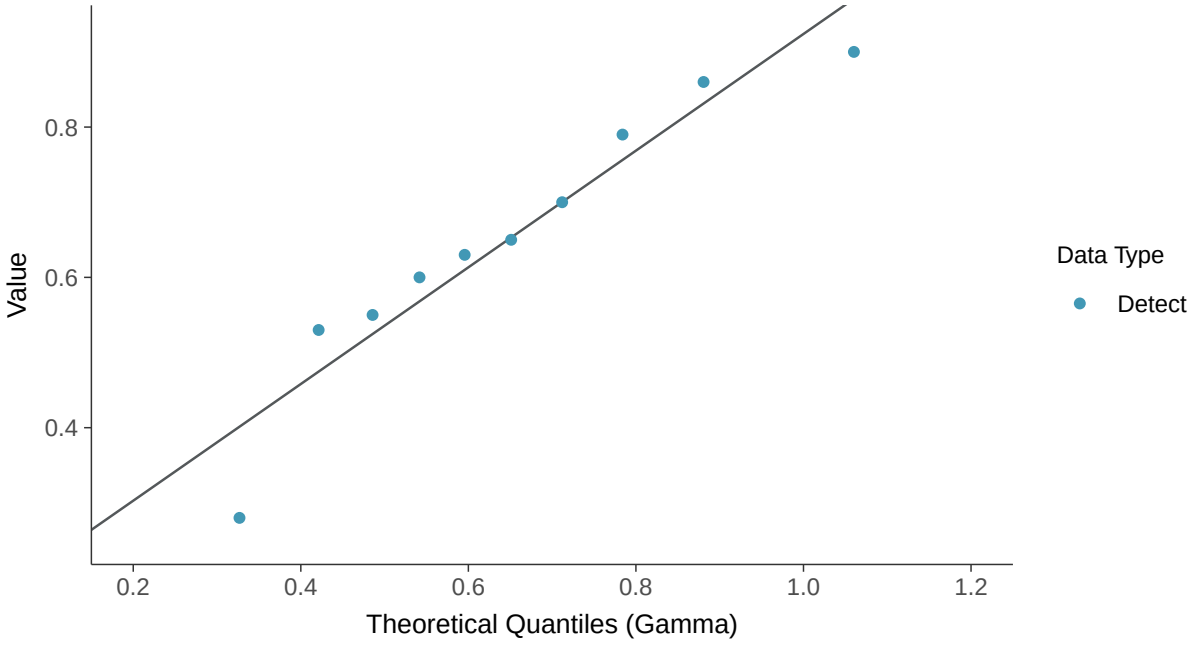
Lognormal Q-Q plot

Barium, MW-17 (mg/L)



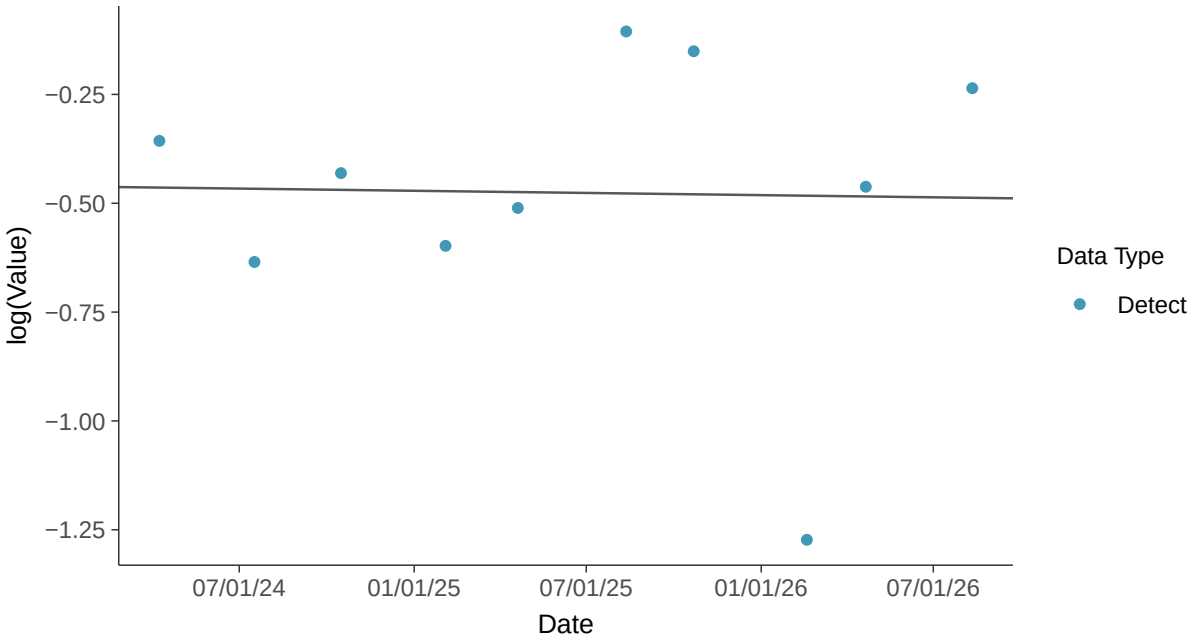
Gamma Q-Q plot

Barium, MW-17 (mg/L)



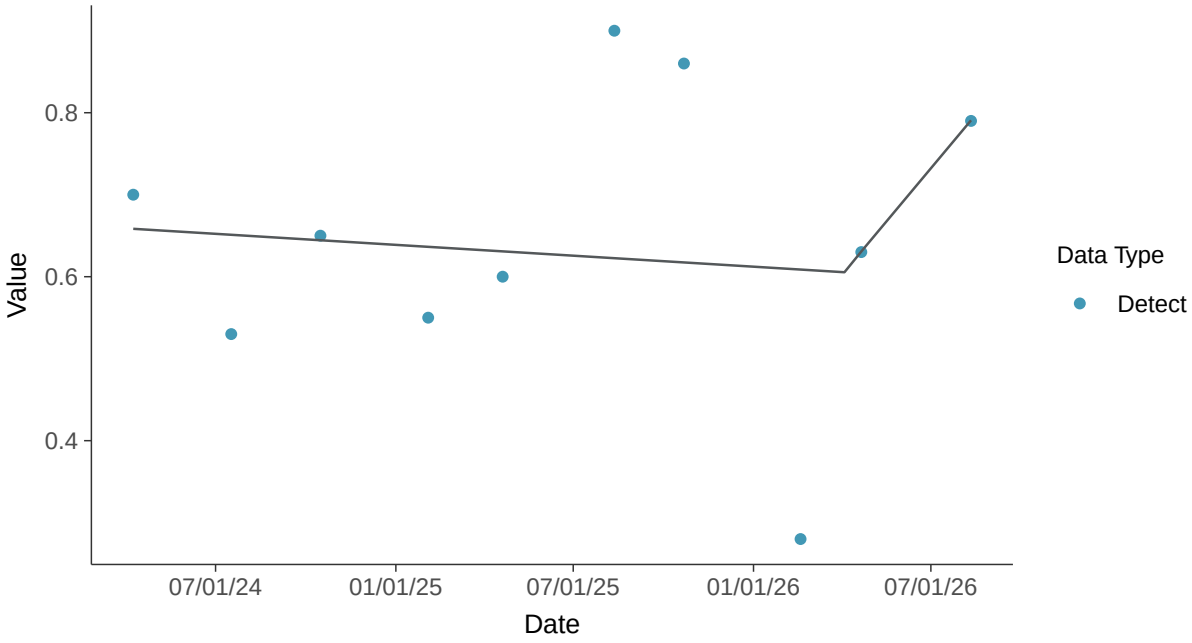
Trend Regression: Lognormal MLE

Barium, MW-17 (mg/L)



Trend Regression: Piecewise Linear-Linear

Barium, MW-17 (mg/L)

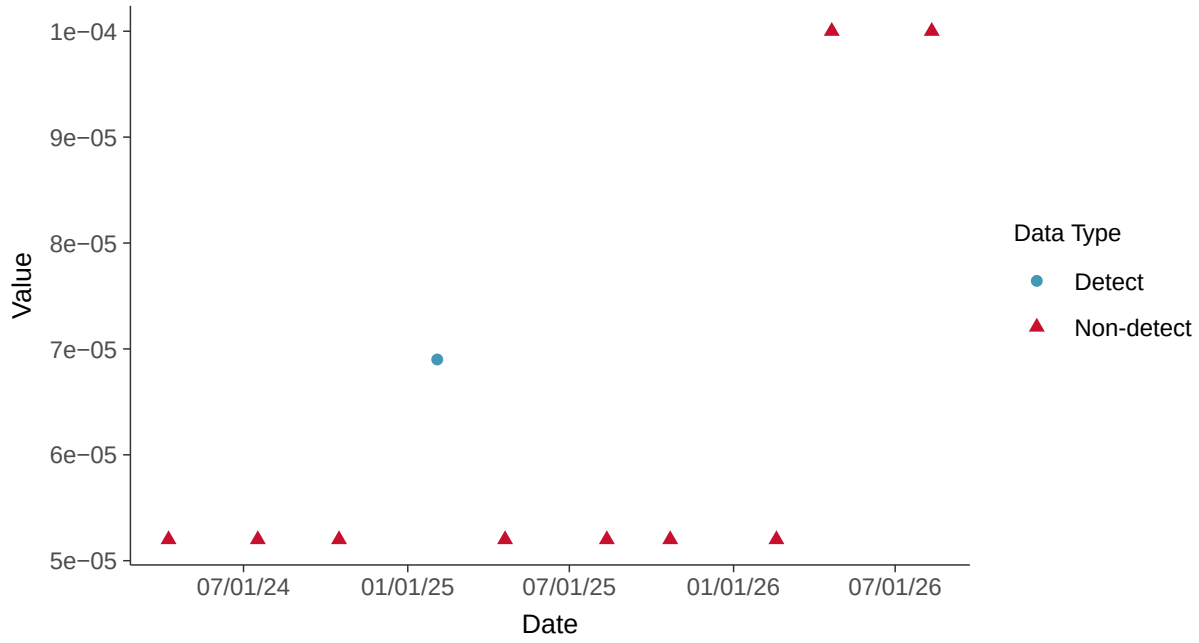


Appendix IV: Beryllium, MW-17

ID: 27_1_4_104

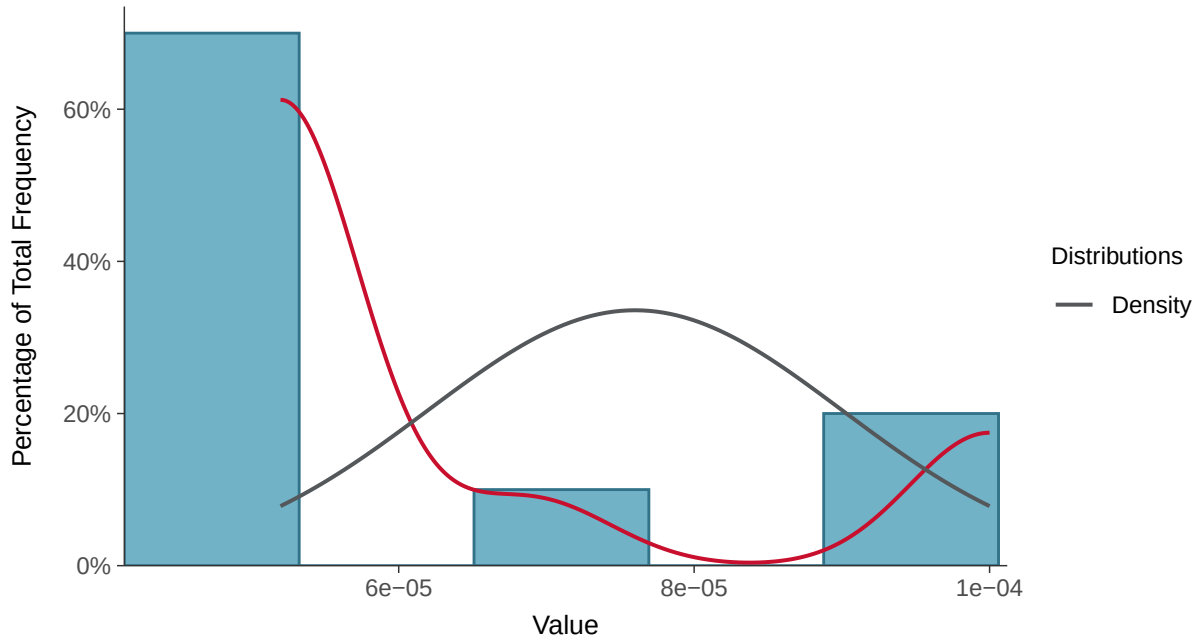
Scatter Plot

Beryllium, MW-17 (mg/L)



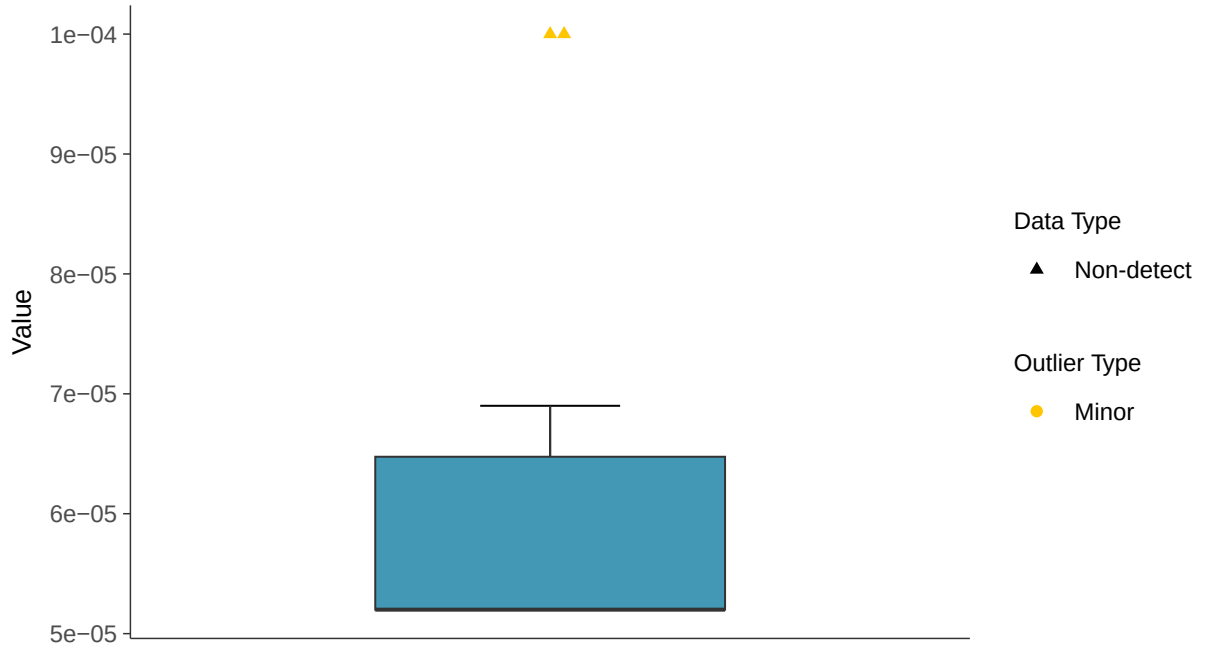
Histogram

Beryllium, MW-17 (mg/L)



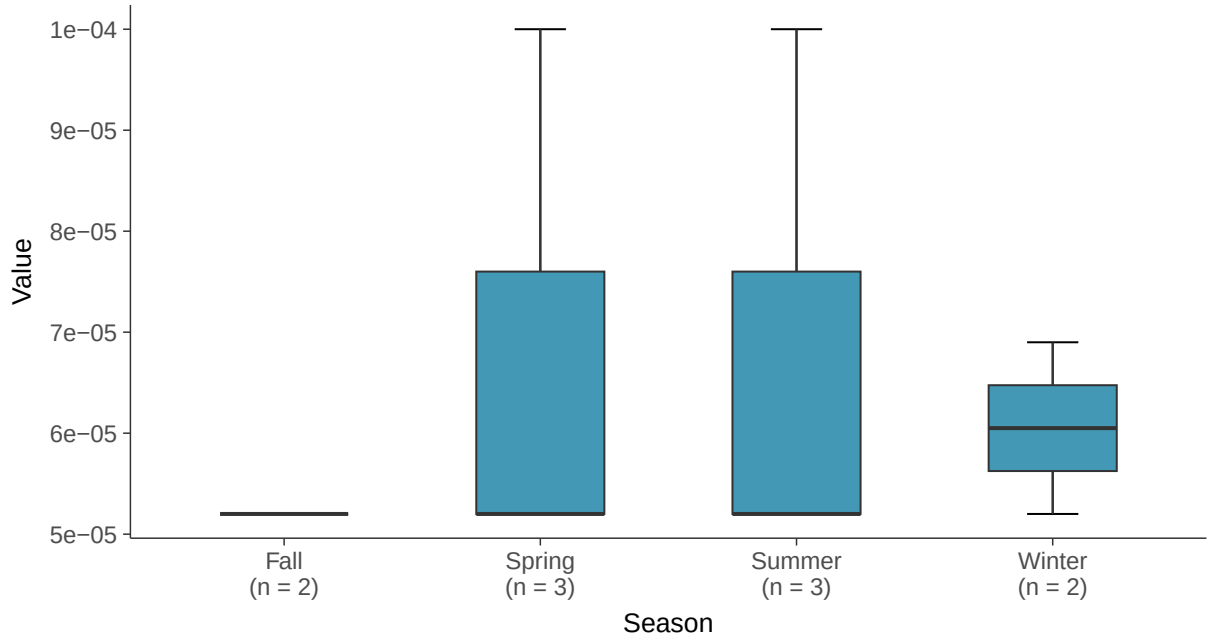
Boxplot

Beryllium, MW-17 (mg/L)



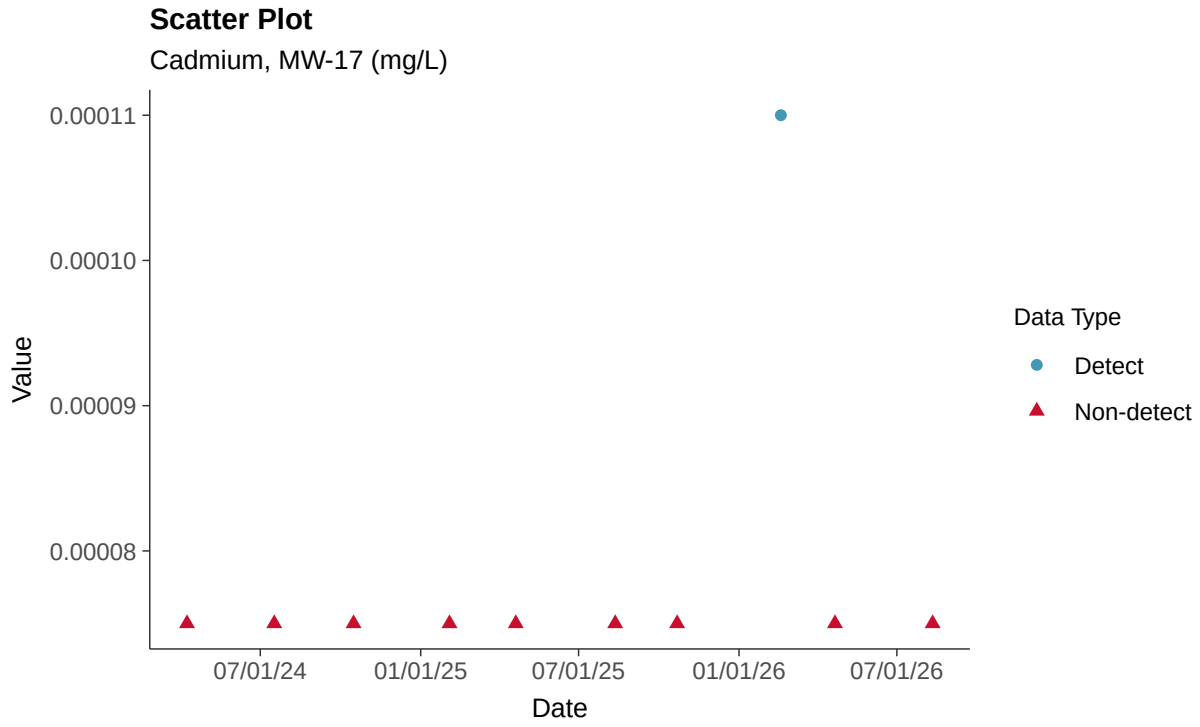
Boxplot by Season

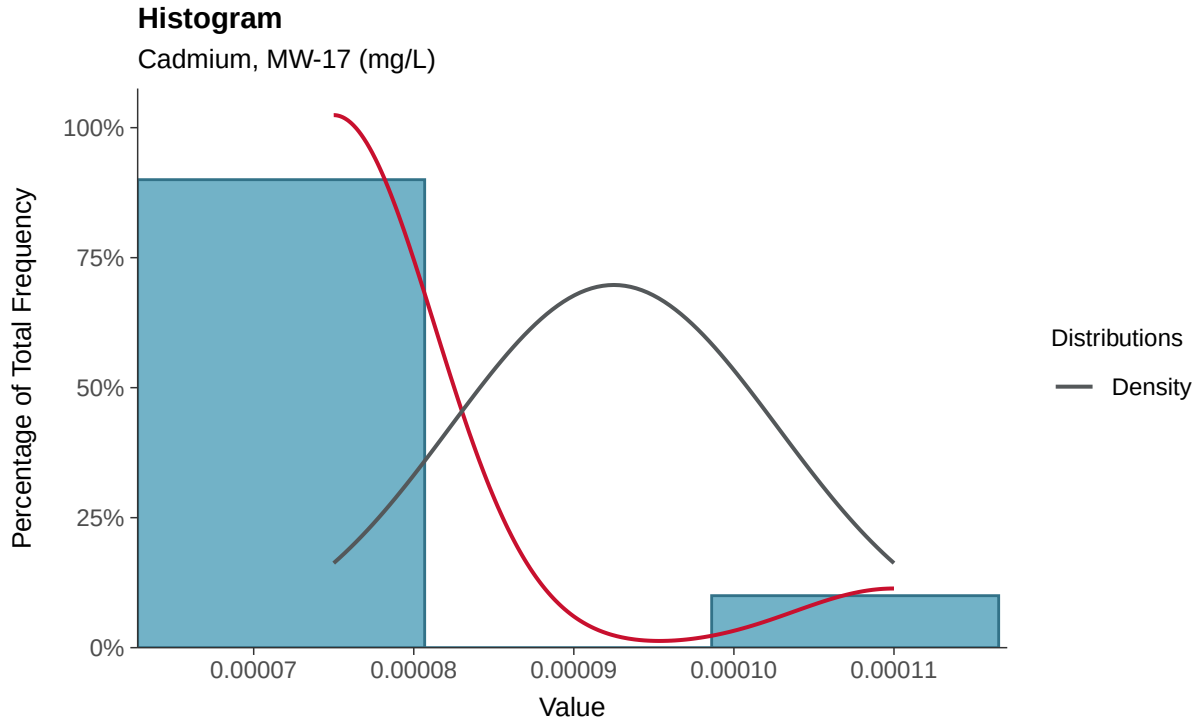
Beryllium, MW-17 (mg/L)



Appendix IV: Cadmium, MW-17

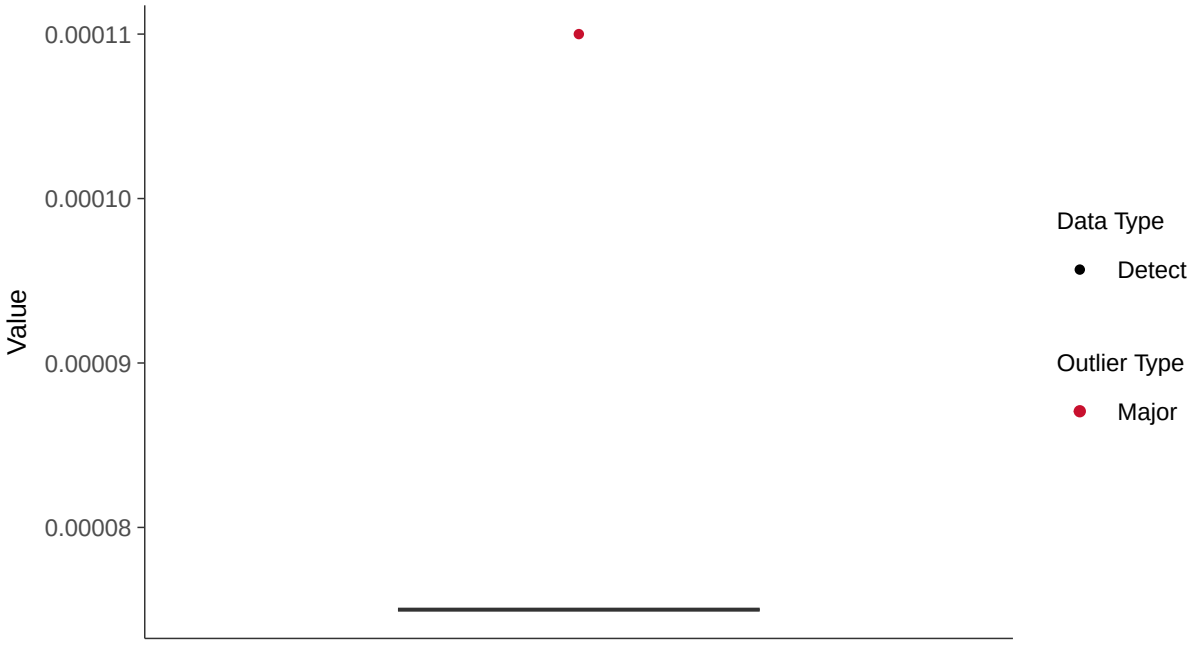
ID: 27_1_4_106





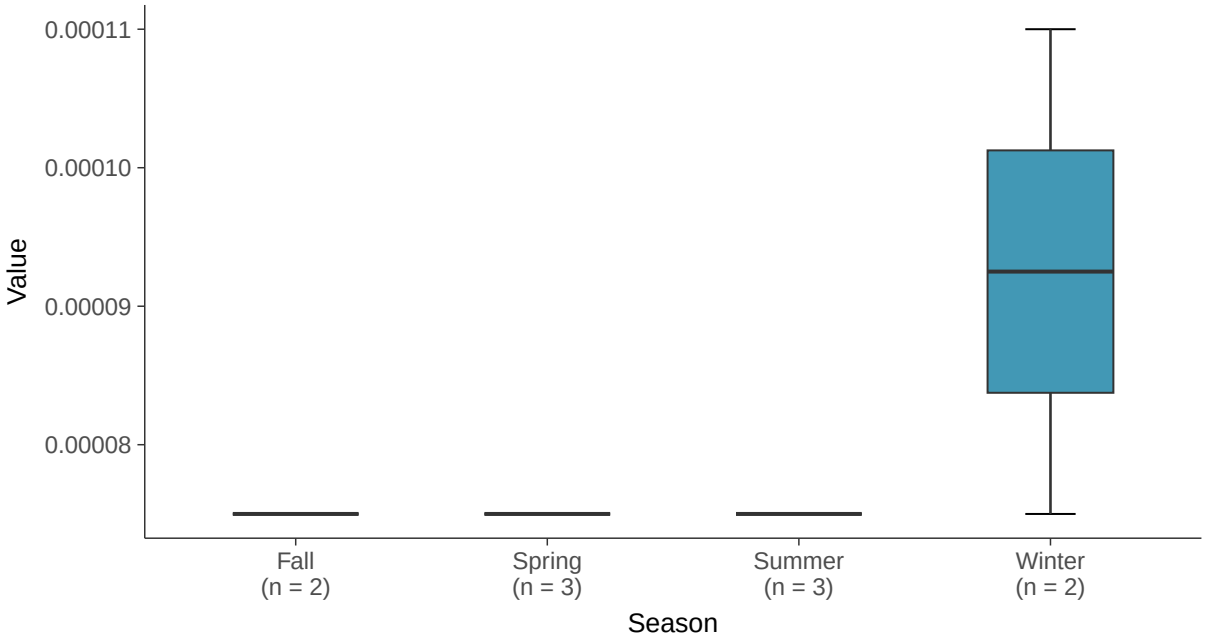
Boxplot

Cadmium, MW-17 (mg/L)



Boxplot by Season

Cadmium, MW-17 (mg/L)

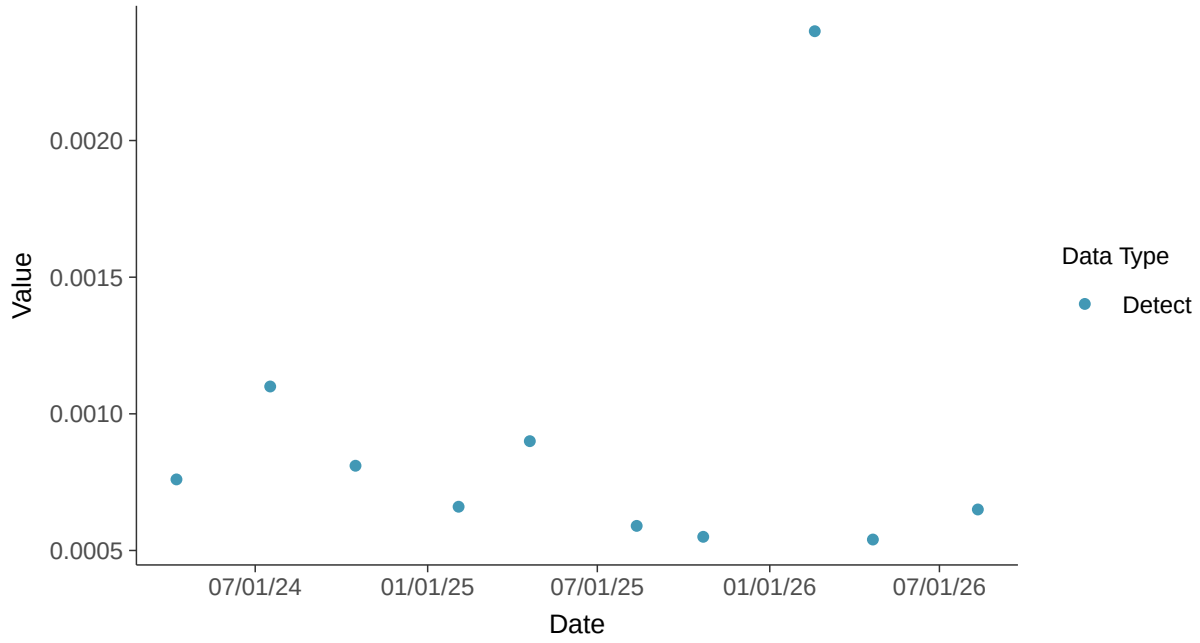


Appendix IV: Chromium, Total, MW-17

ID: 27_1_4_109

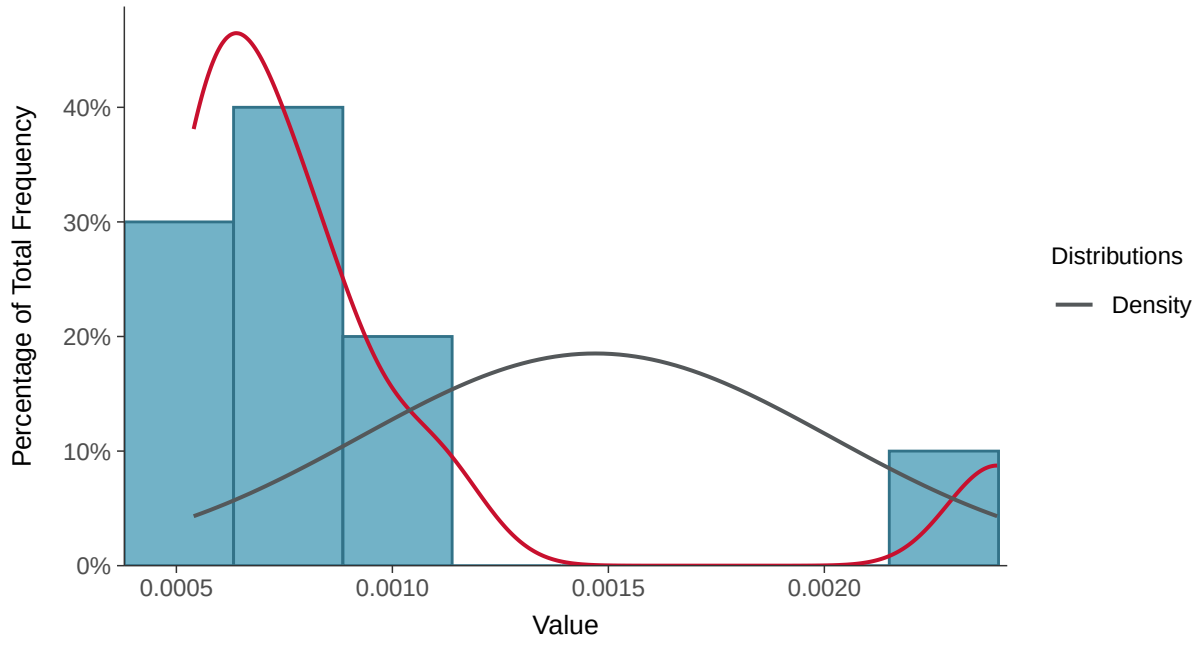
Scatter Plot

Chromium, Total, MW-17 (mg/L)



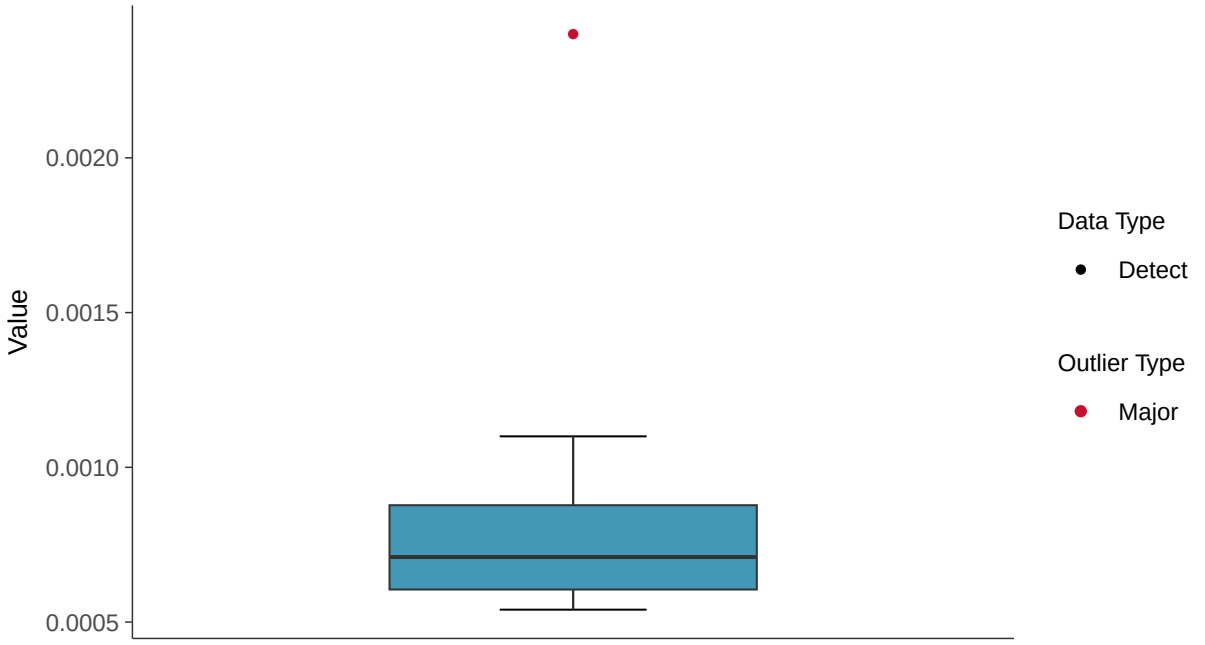
Histogram

Chromium, Total, MW-17 (mg/L)



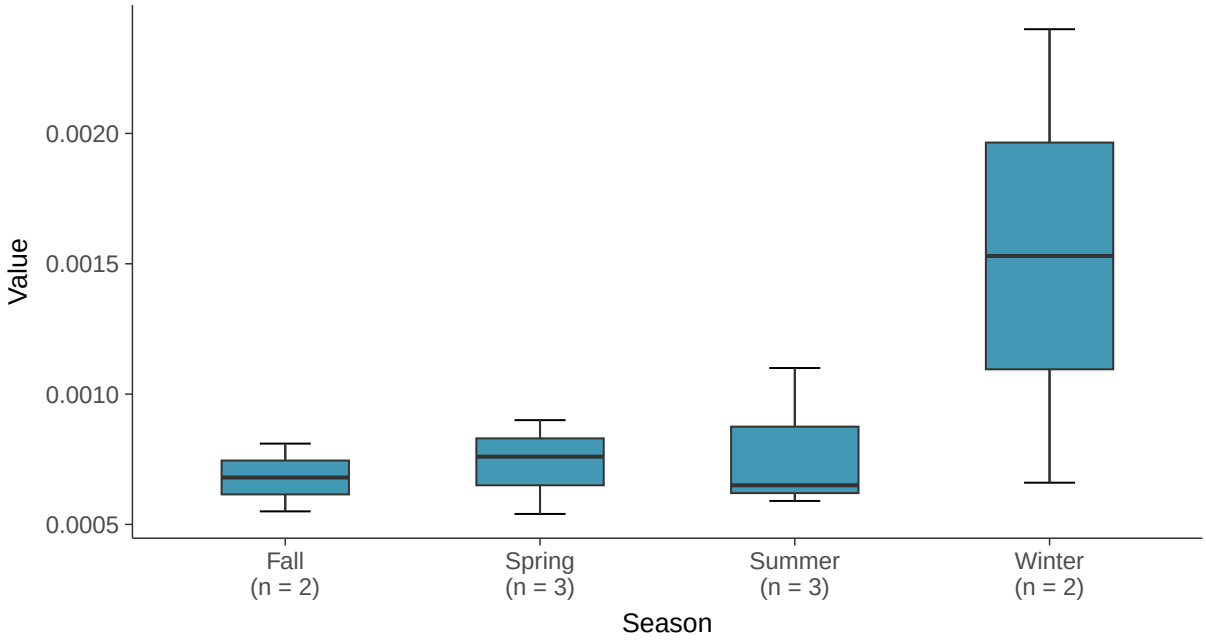
Boxplot

Chromium, Total, MW-17 (mg/L)



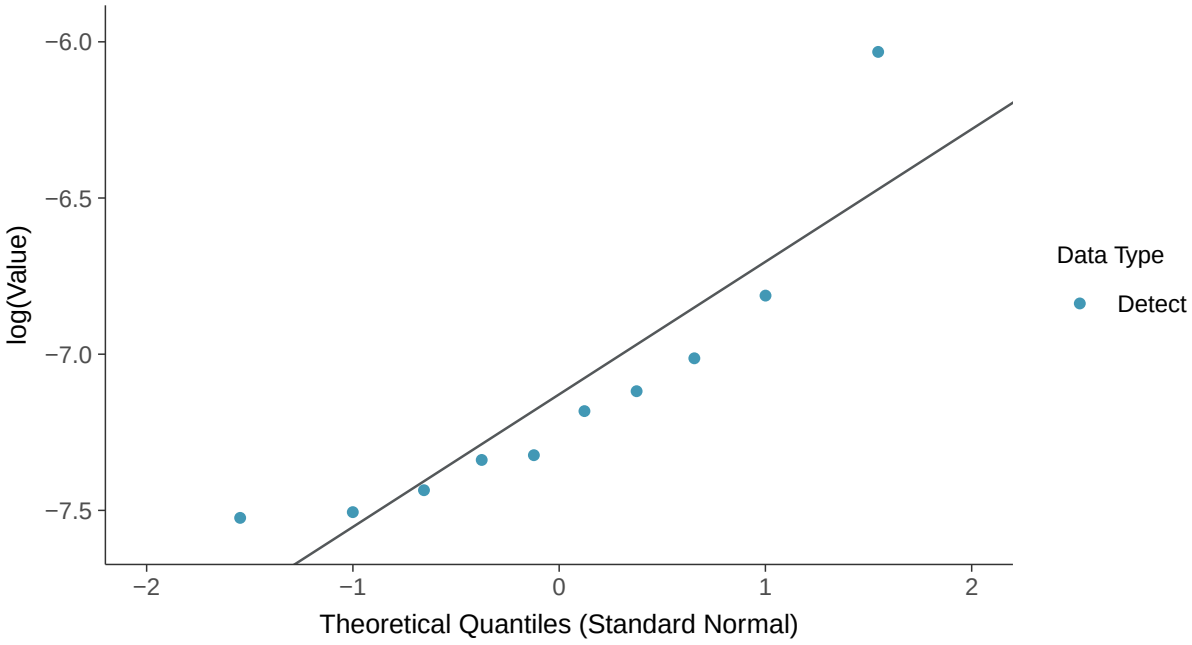
Boxplot by Season

Chromium, Total, MW-17 (mg/L)



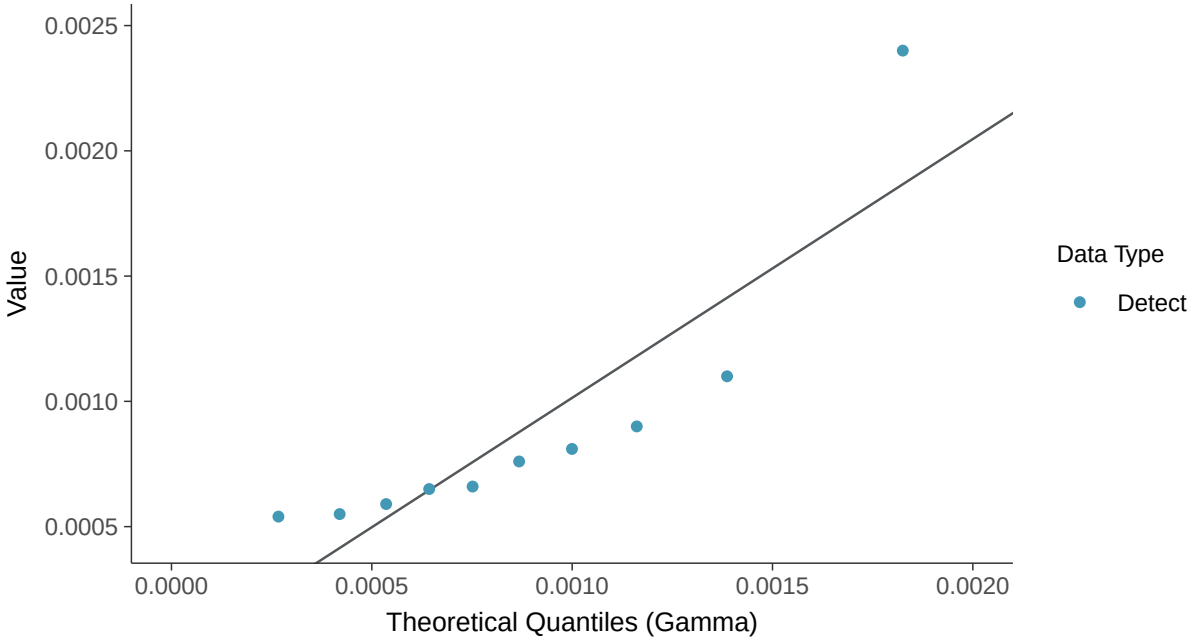
Lognormal Q-Q plot

Chromium, Total, MW-17 (mg/L)



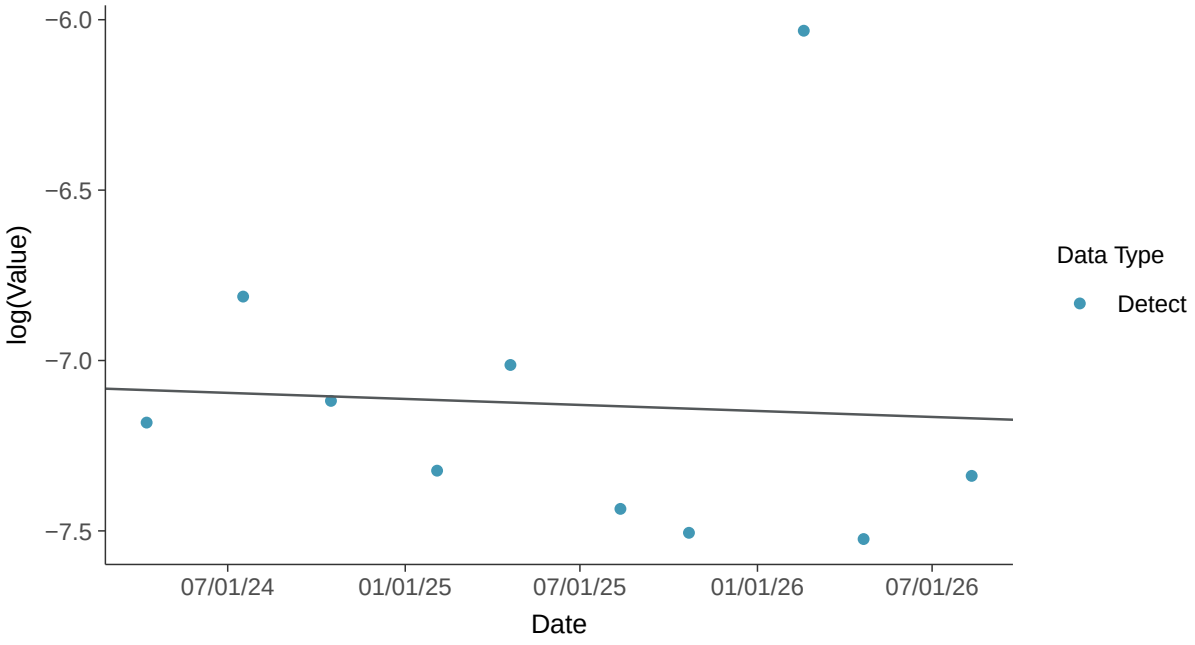
Gamma Q-Q plot

Chromium, Total, MW-17 (mg/L)



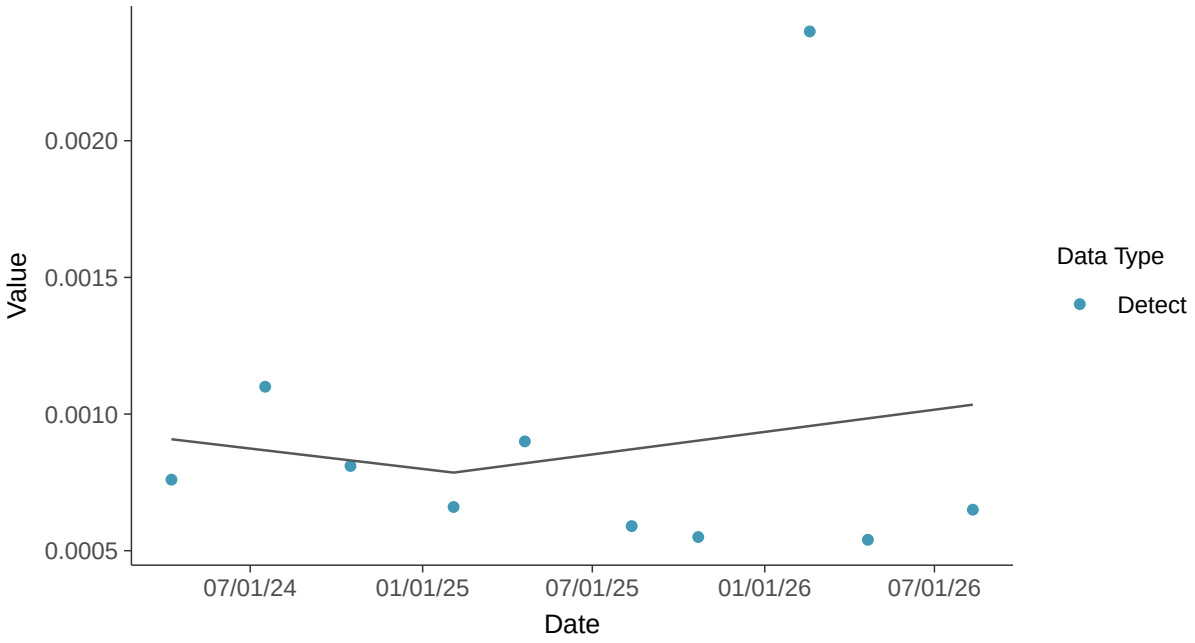
Trend Regression: Lognormal MLE

Chromium, Total, MW-17 (mg/L)



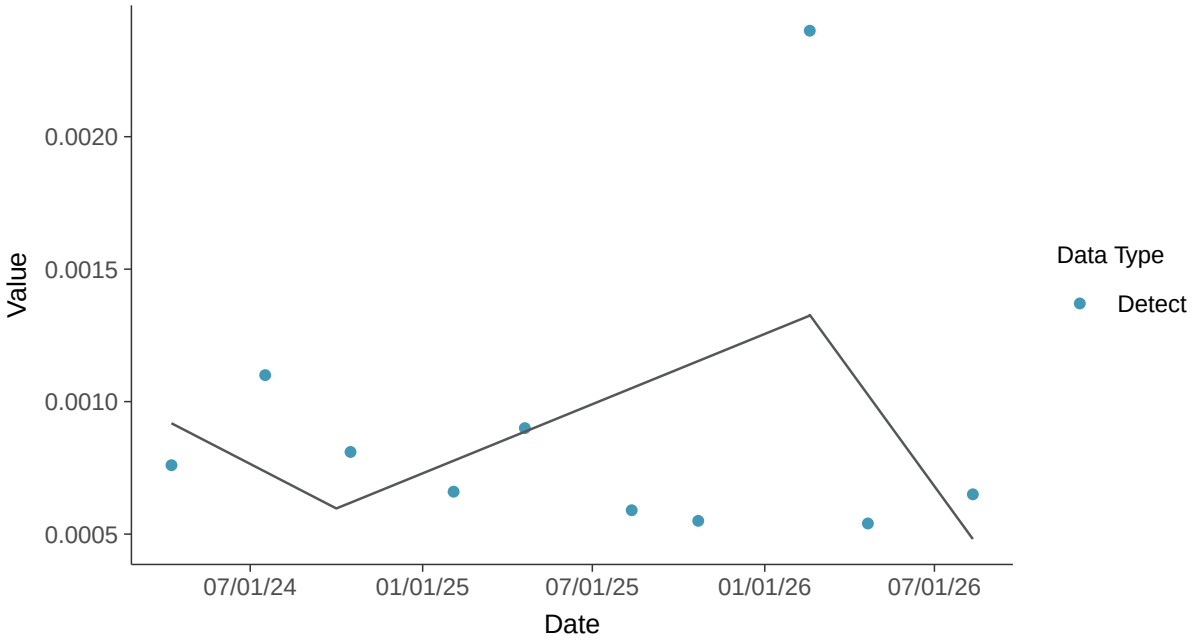
Trend Regression: Piecewise Linear-Linear

Chromium, Total, MW-17 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Chromium, Total, MW-17 (mg/L)

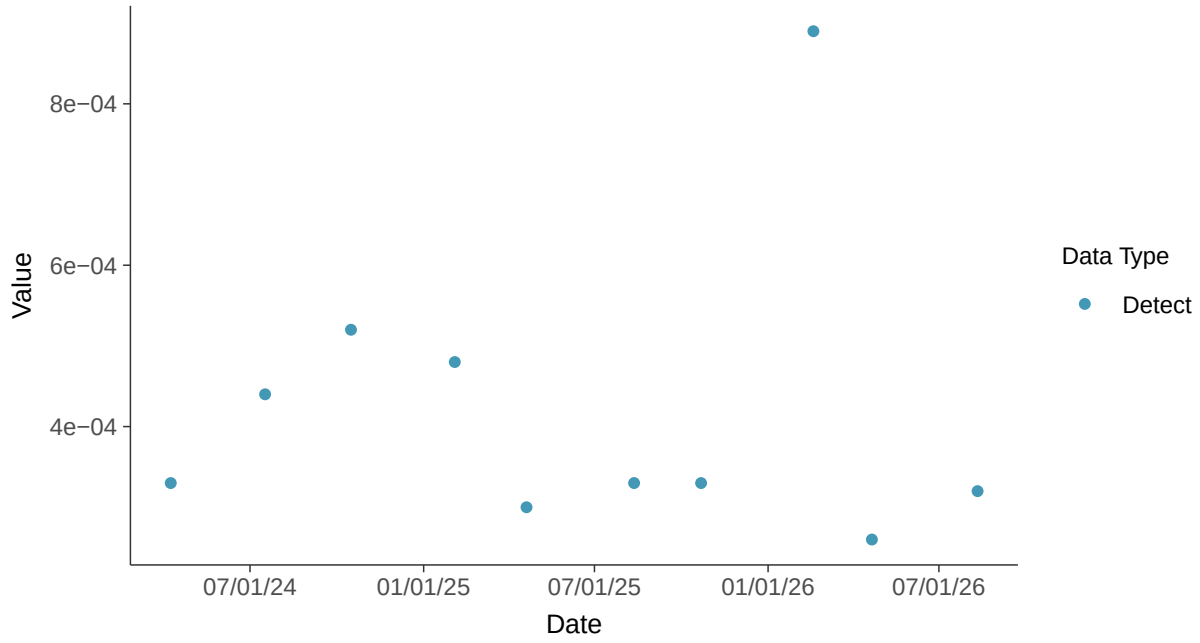


Appendix IV: Cobalt, MW-17

ID: 27_1_4_110

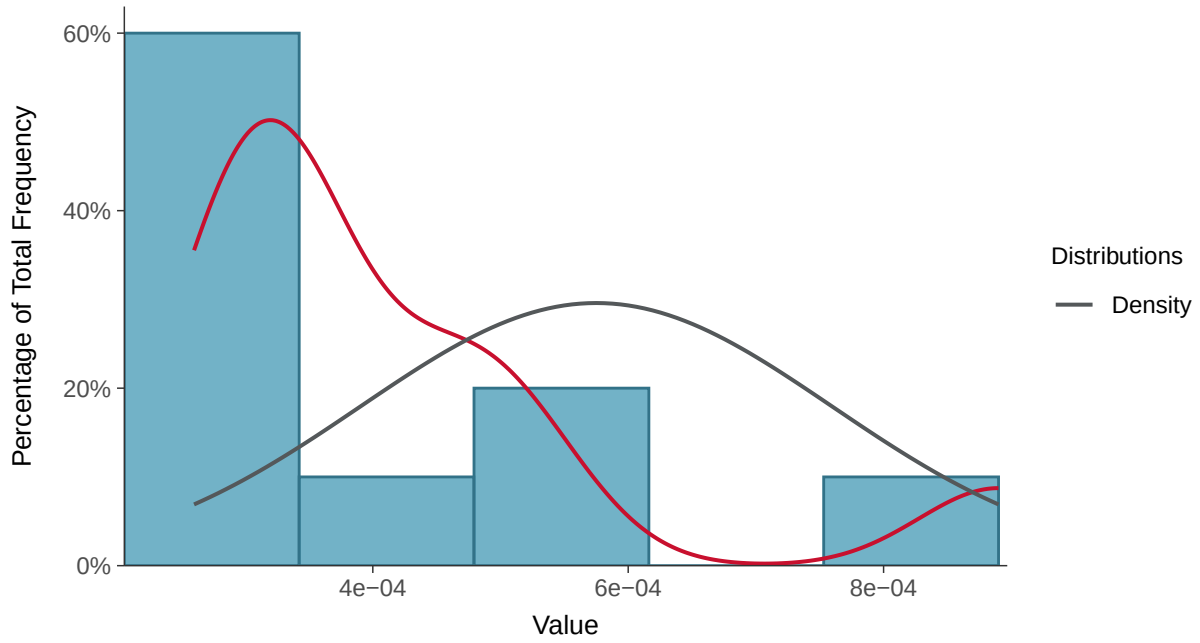
Scatter Plot

Cobalt, MW-17 (mg/L)



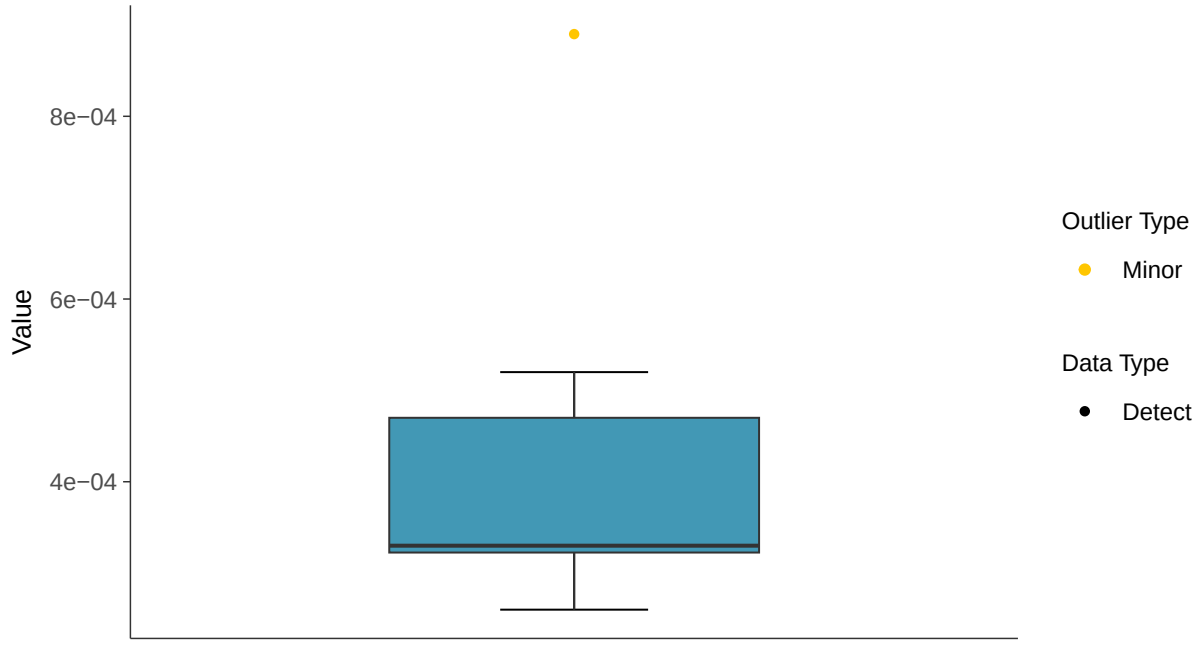
Histogram

Cobalt, MW-17 (mg/L)



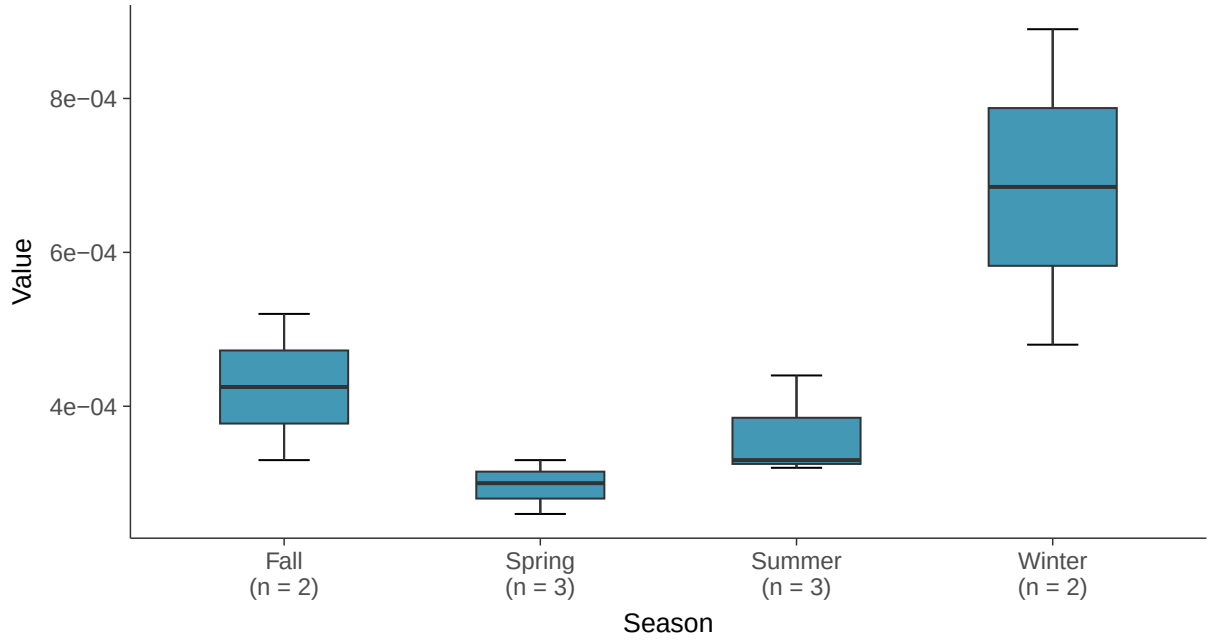
Boxplot

Cobalt, MW-17 (mg/L)



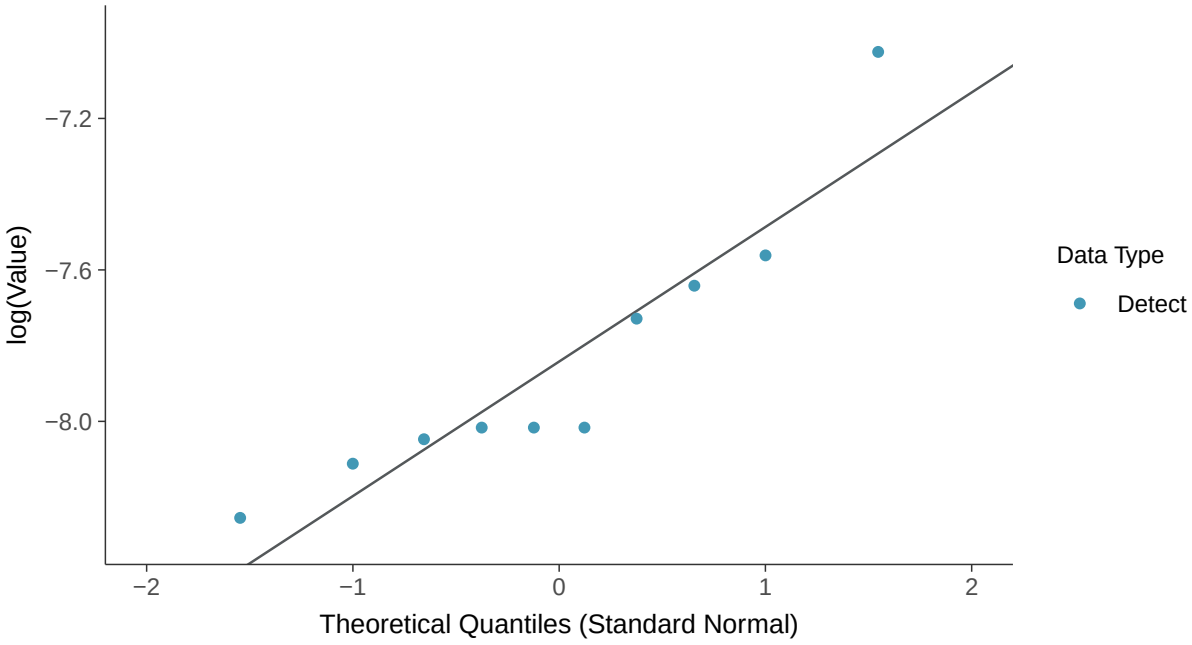
Boxplot by Season

Cobalt, MW-17 (mg/L)



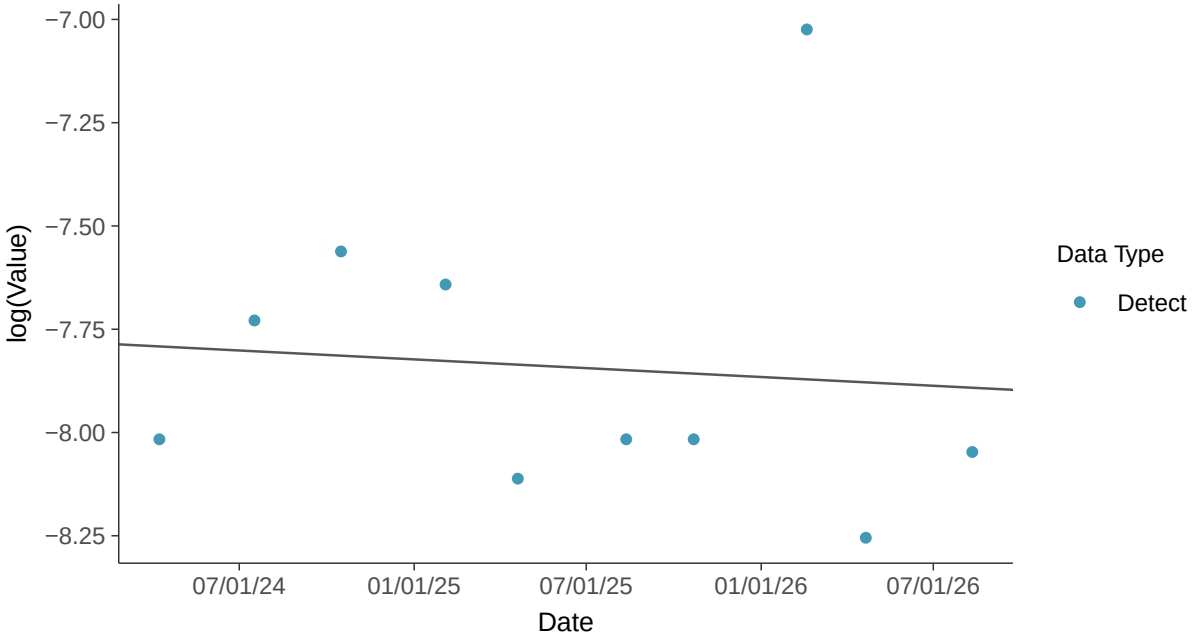
Lognormal Q-Q plot

Cobalt, MW-17 (mg/L)



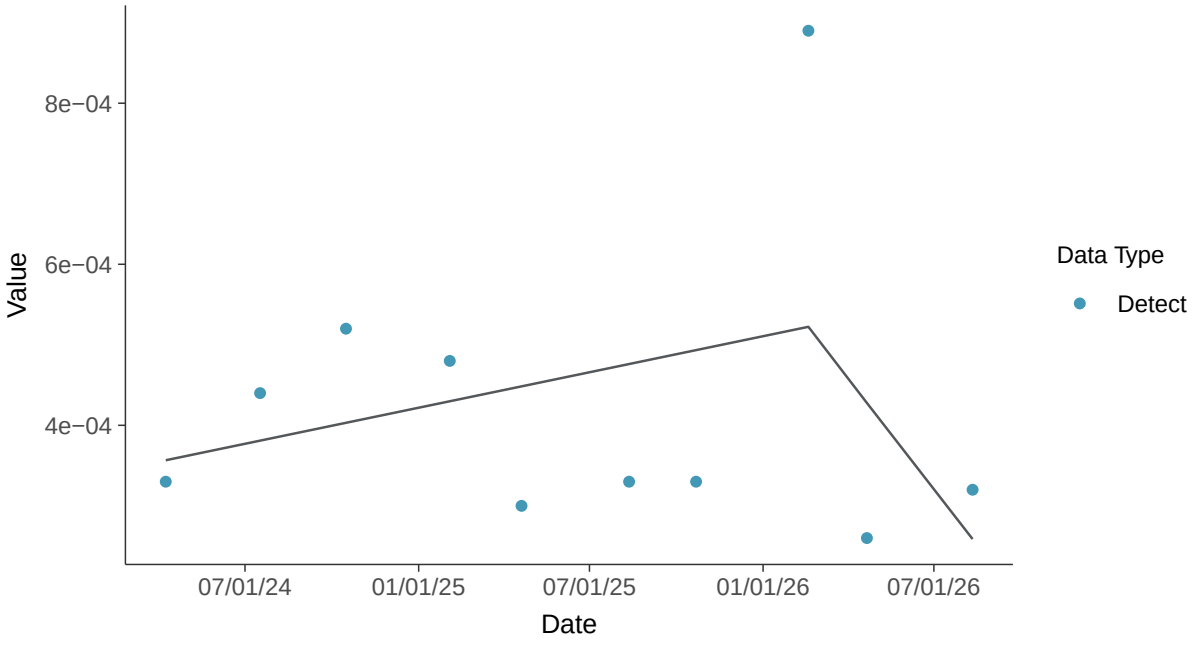
Trend Regression: Lognormal MLE

Cobalt, MW-17 (mg/L)



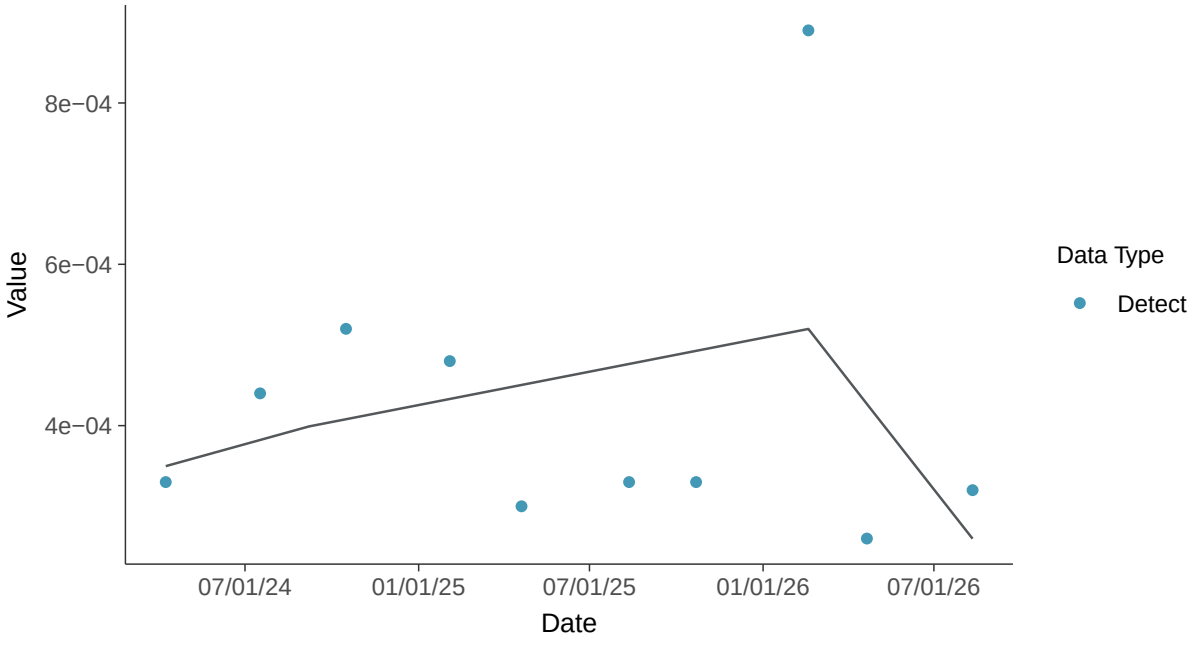
Trend Regression: Piecewise Linear-Linear

Cobalt, MW-17 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Cobalt, MW-17 (mg/L)

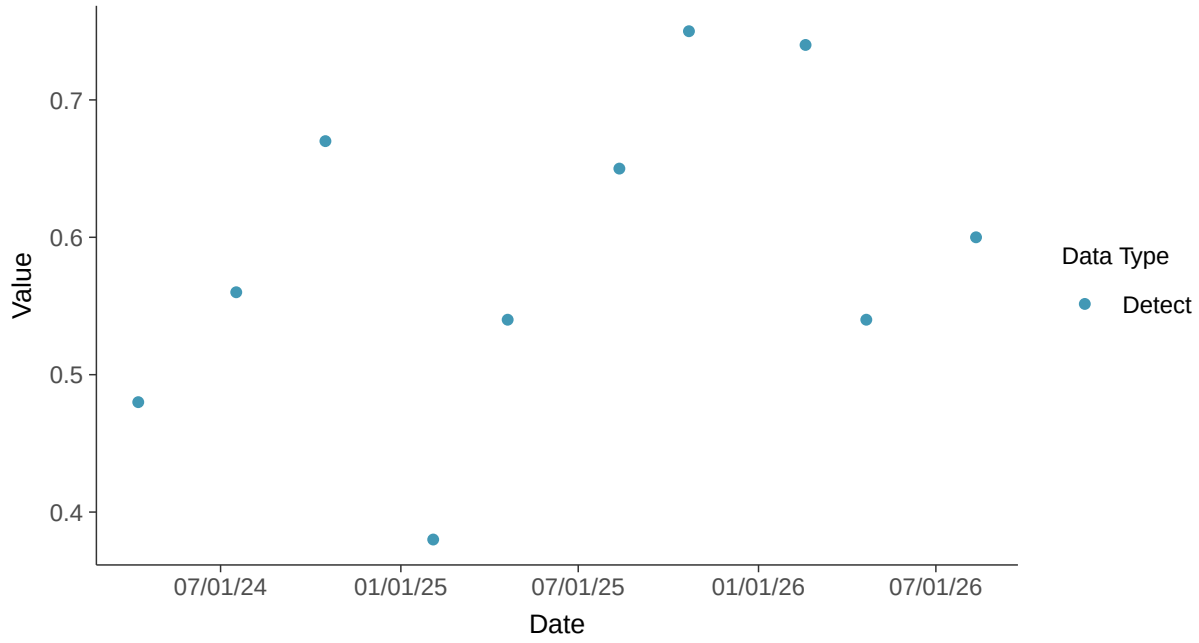


Appendix IV: Fluoride (App IV), MW-17

ID: 27_1_4_113

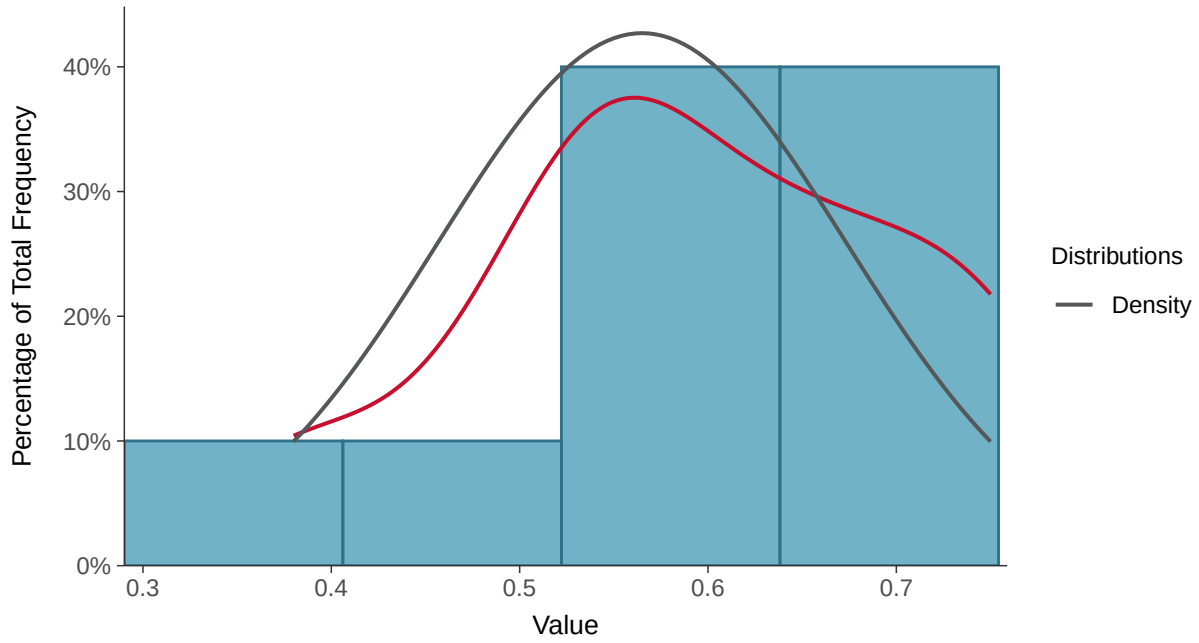
Scatter Plot

Fluoride (App IV), MW-17 (mg/L)



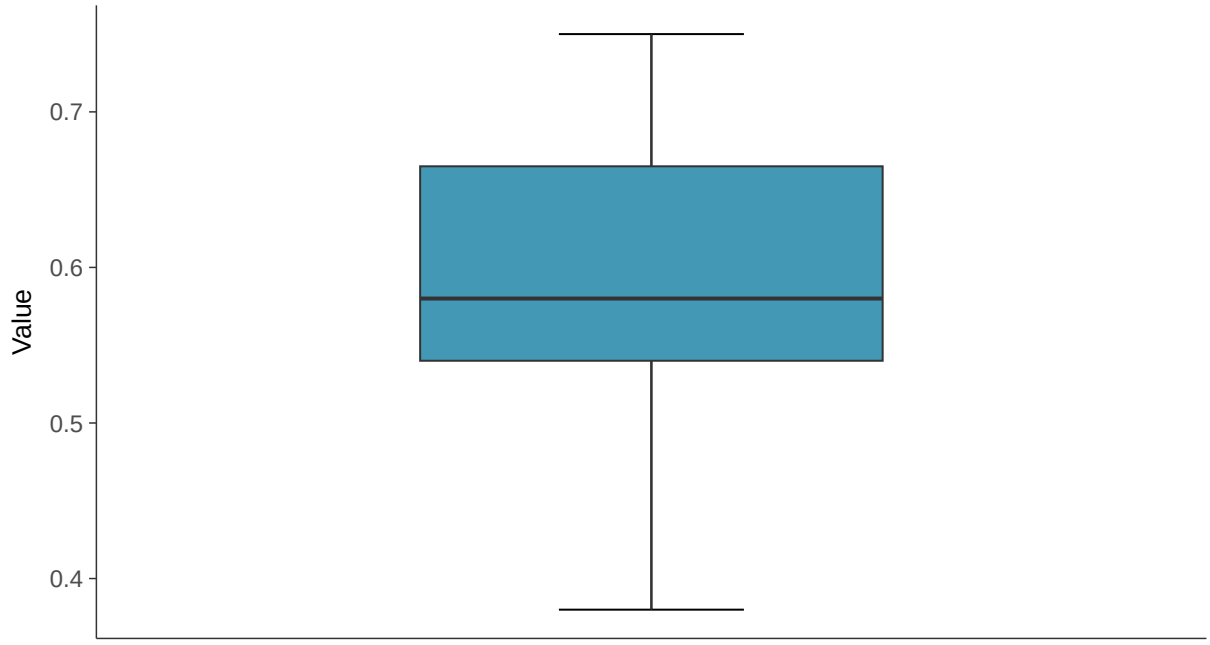
Histogram

Fluoride (App IV), MW-17 (mg/L)



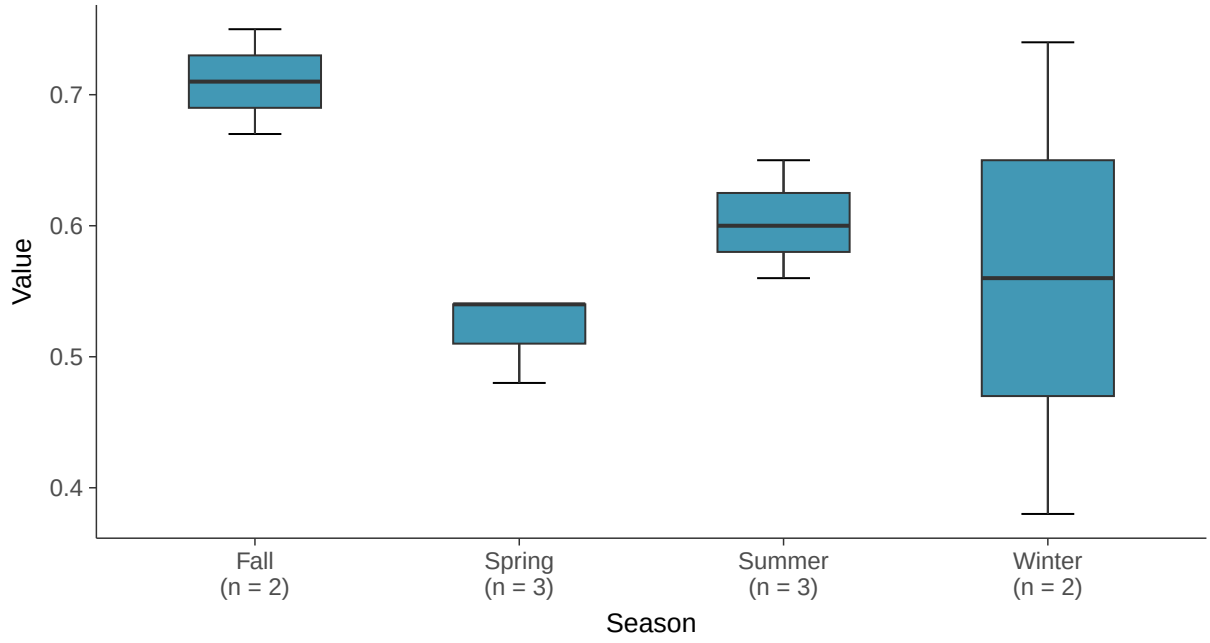
Boxplot

Fluoride (App IV), MW-17 (mg/L)



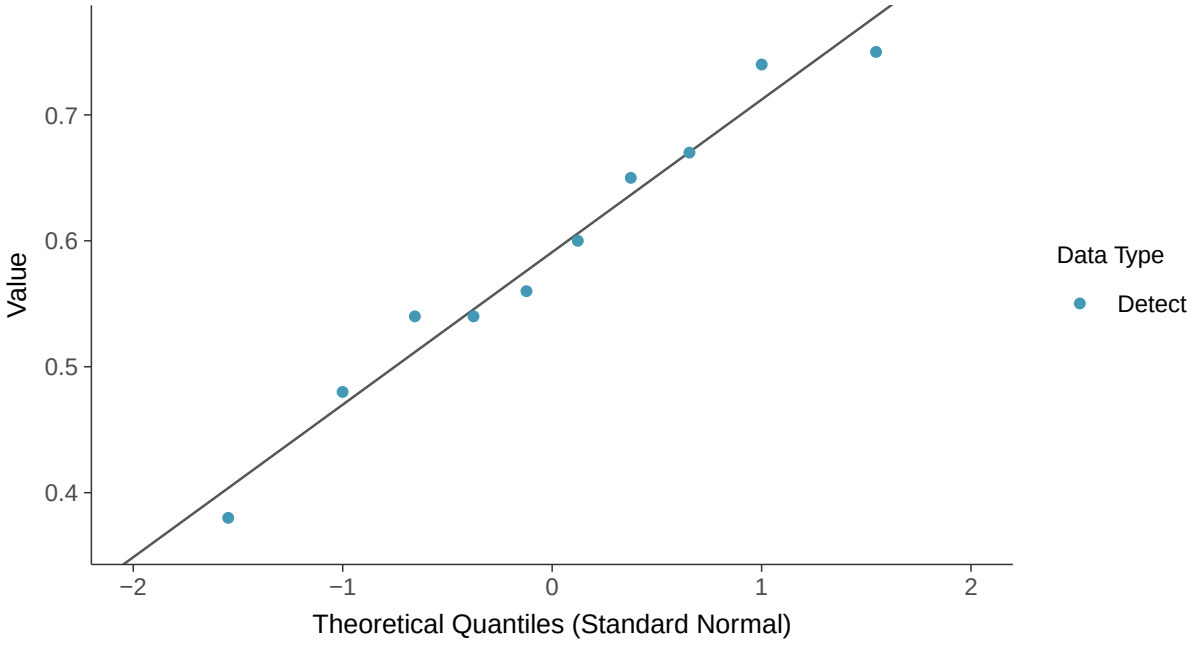
Boxplot by Season

Fluoride (App IV), MW-17 (mg/L)



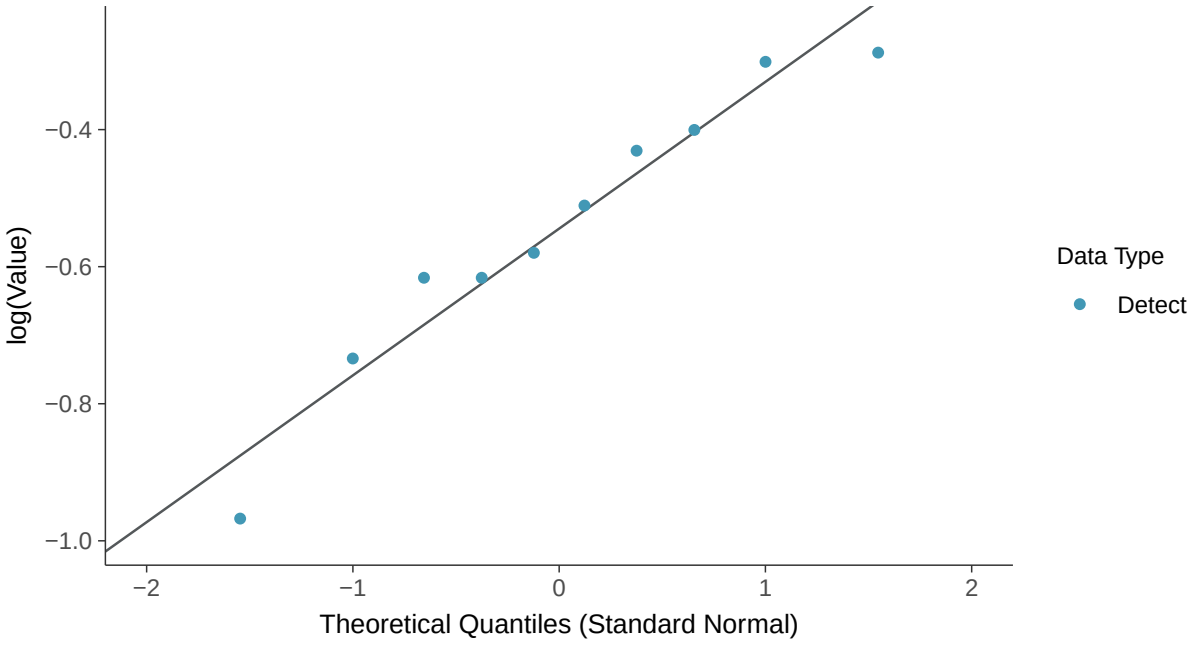
Normal Q-Q plot

Fluoride (App IV), MW-17 (mg/L)



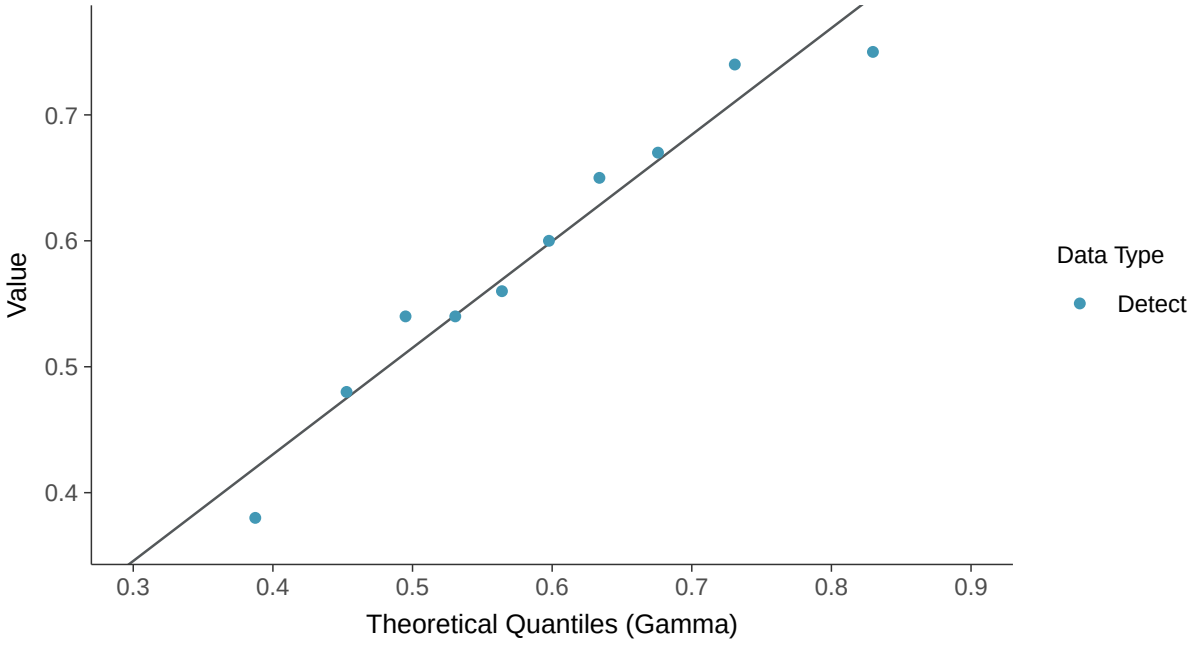
Lognormal Q-Q plot

Fluoride (App IV), MW-17 (mg/L)



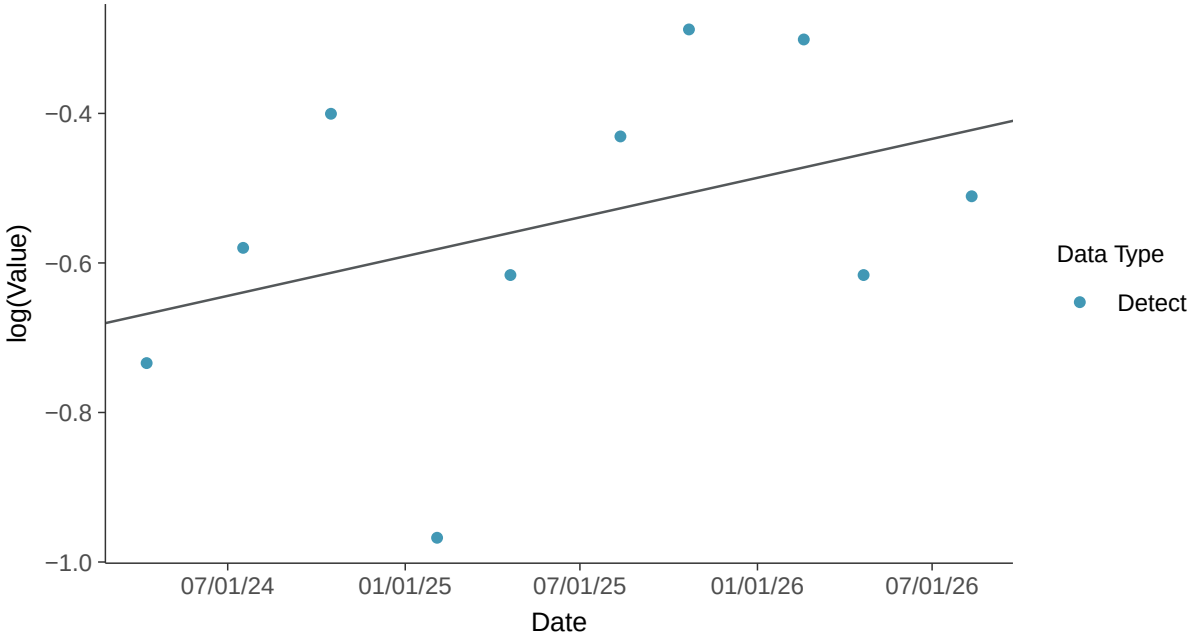
Gamma Q-Q plot

Fluoride (App IV), MW-17 (mg/L)



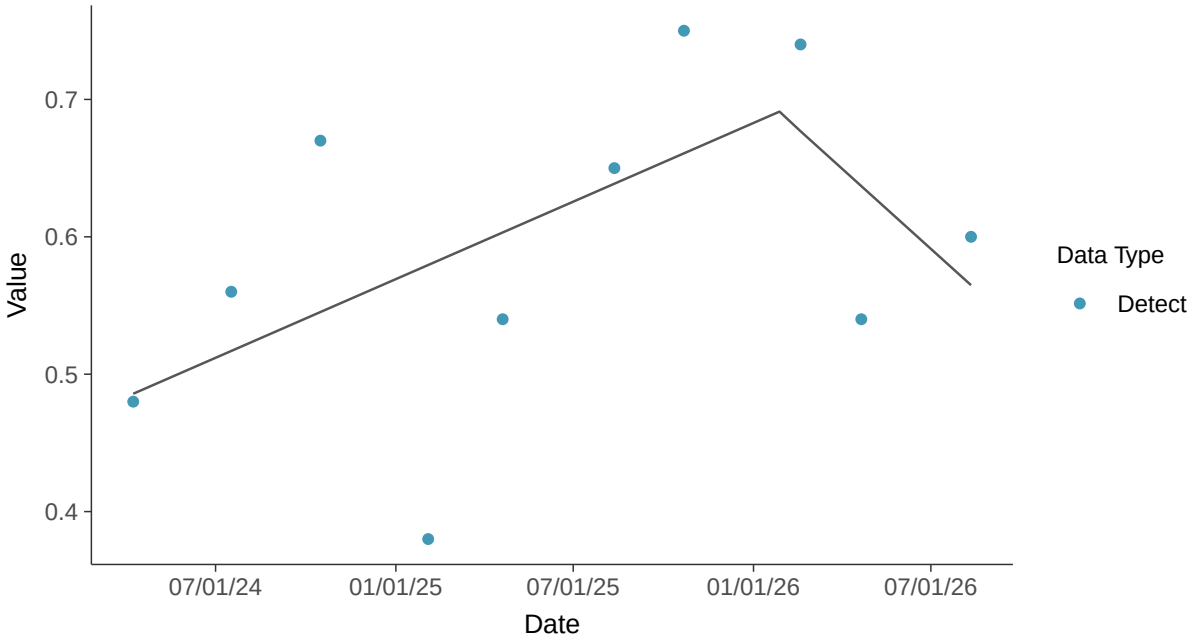
Trend Regression: Lognormal MLE

Fluoride (App IV), MW-17 (mg/L)



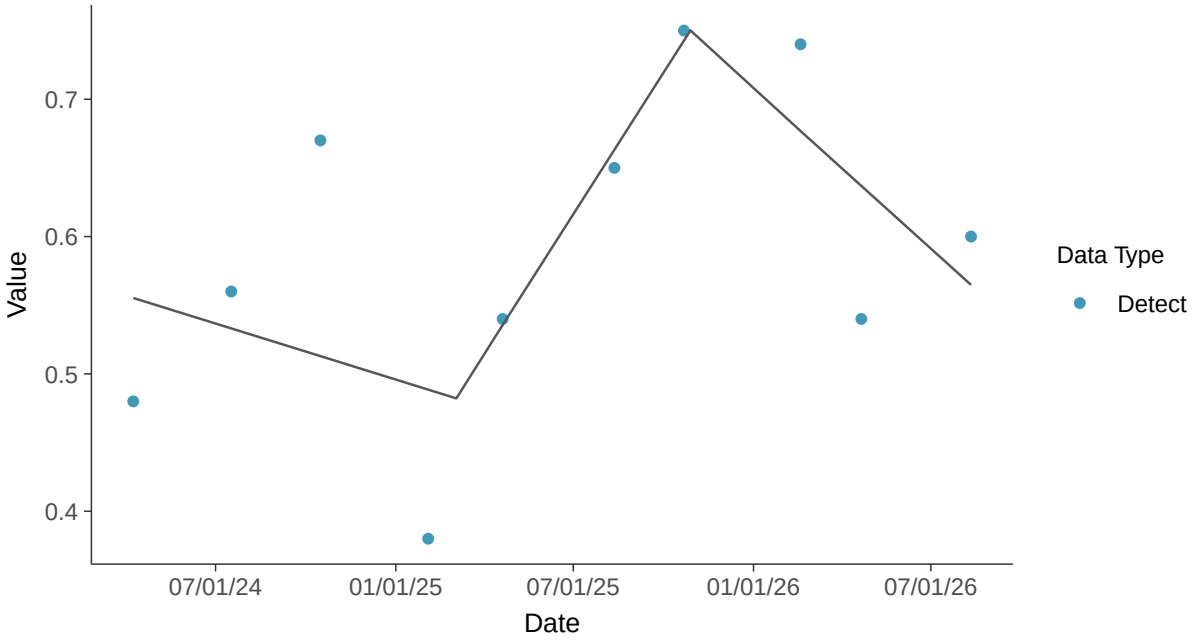
Trend Regression: Piecewise Linear-Linear

Fluoride (App IV), MW-17 (mg/L)



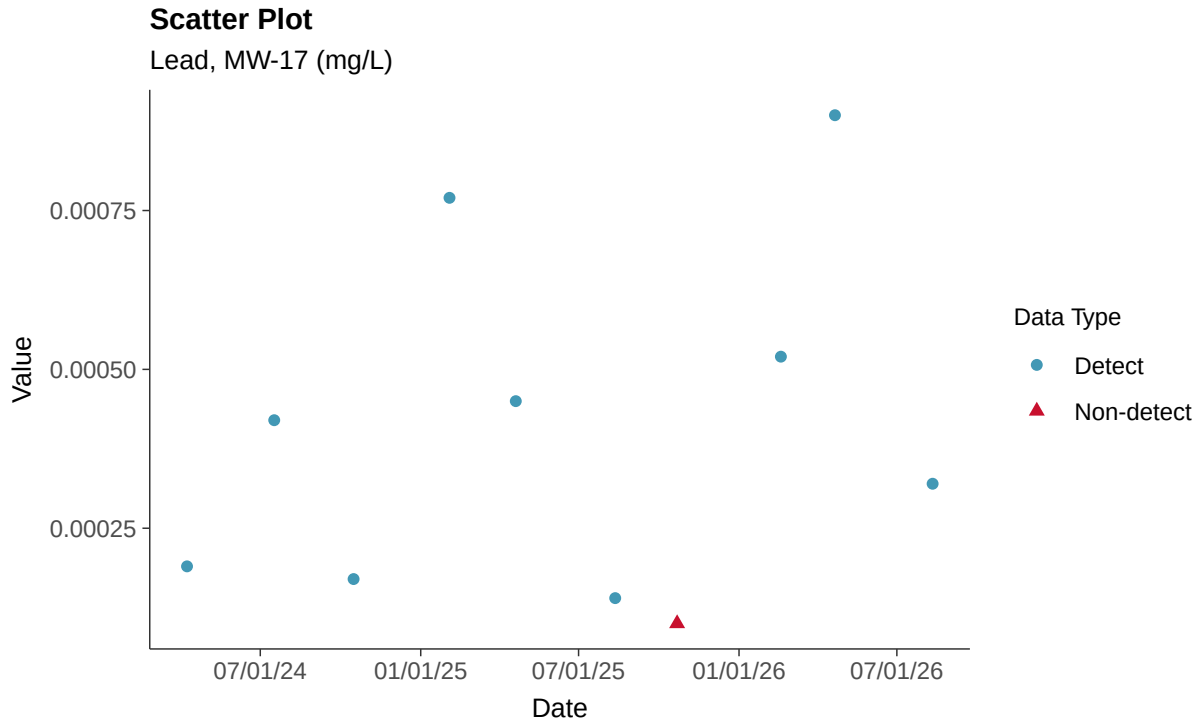
Trend Regression: Piecewise Linear-Linear-Linear

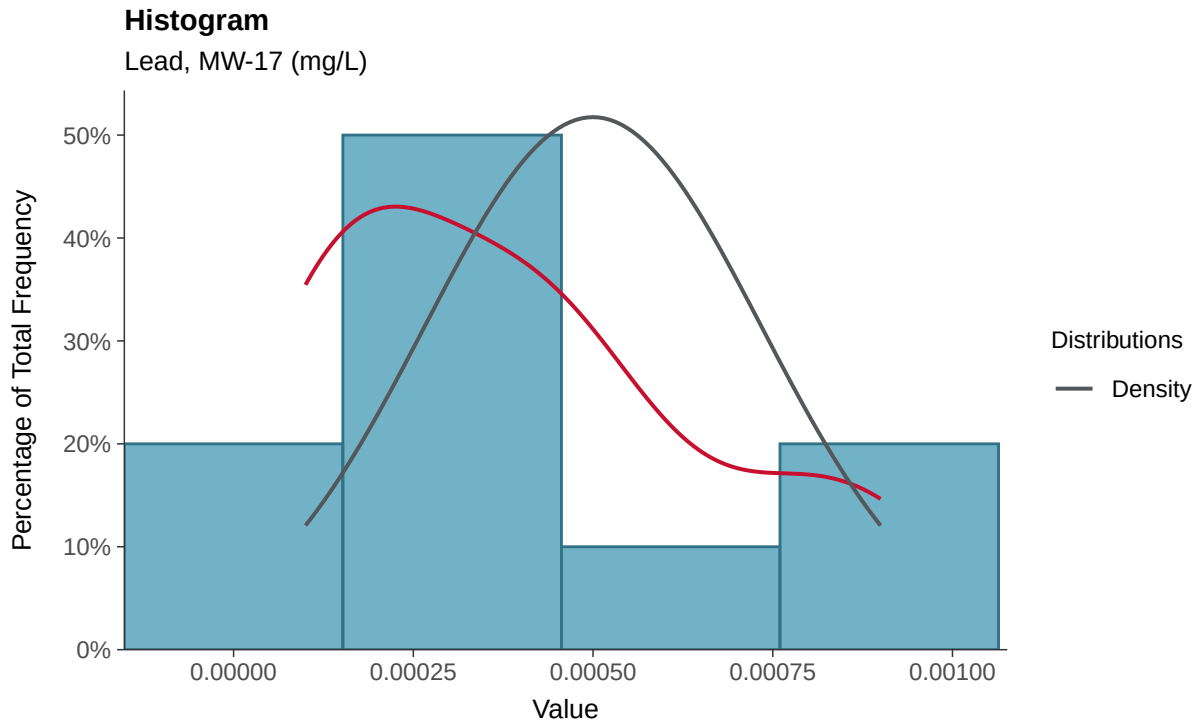
Fluoride (App IV), MW-17 (mg/L)



Appendix IV: Lead, MW-17

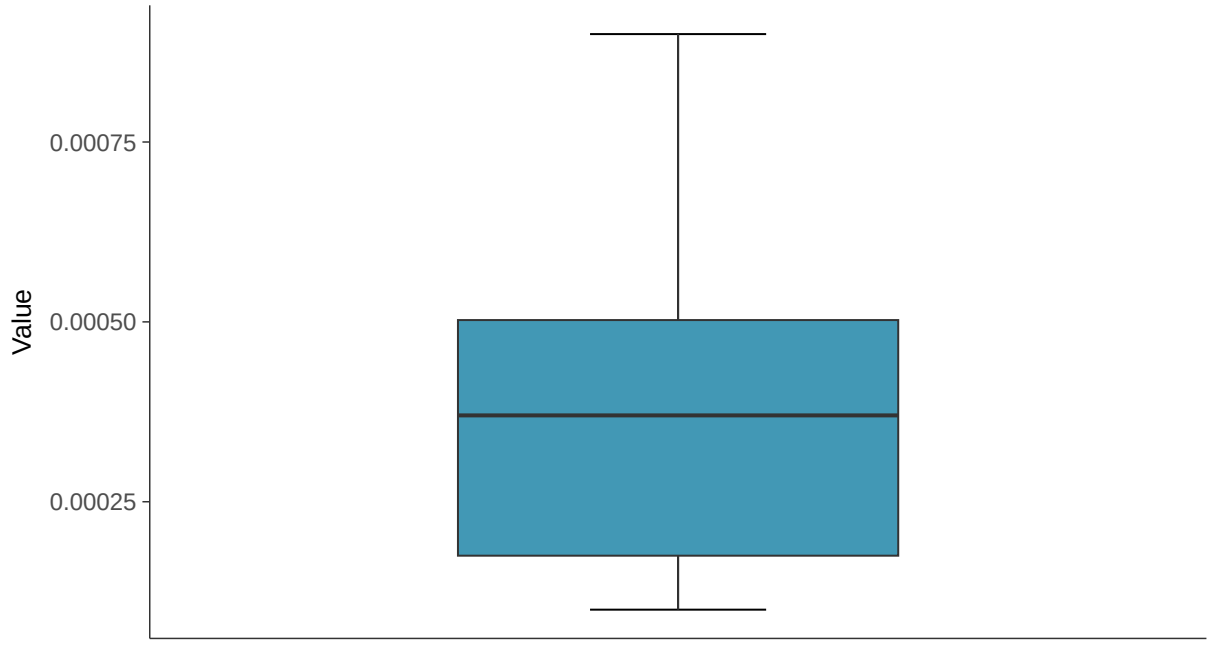
ID: 27_1_4_115





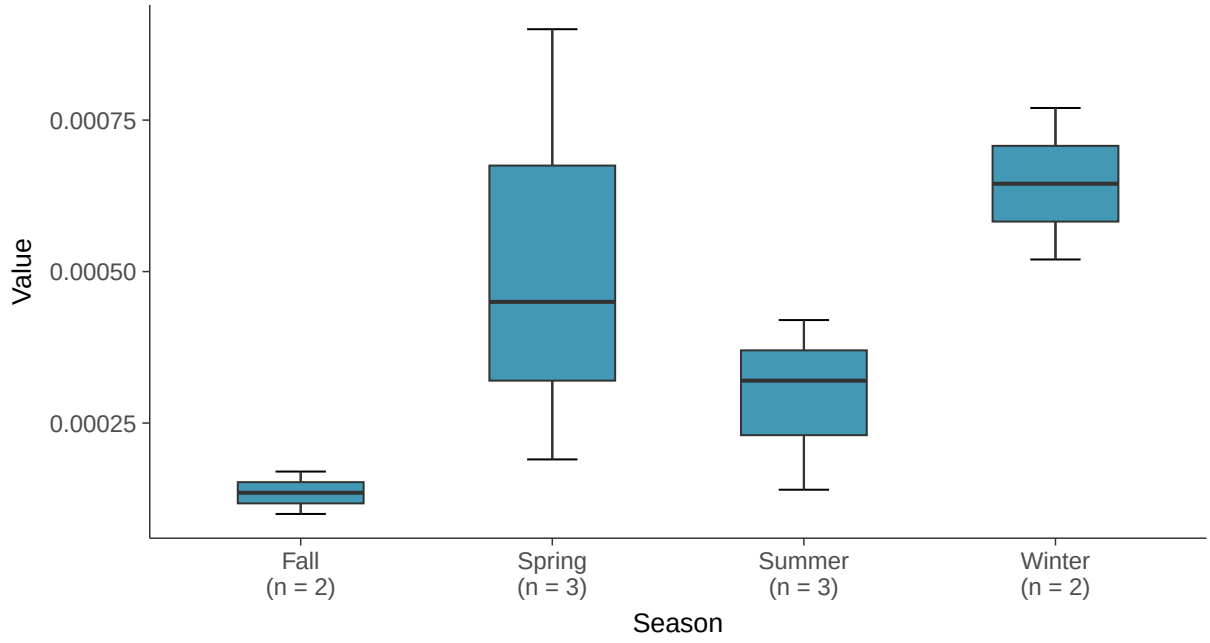
Boxplot

Lead, MW-17 (mg/L)



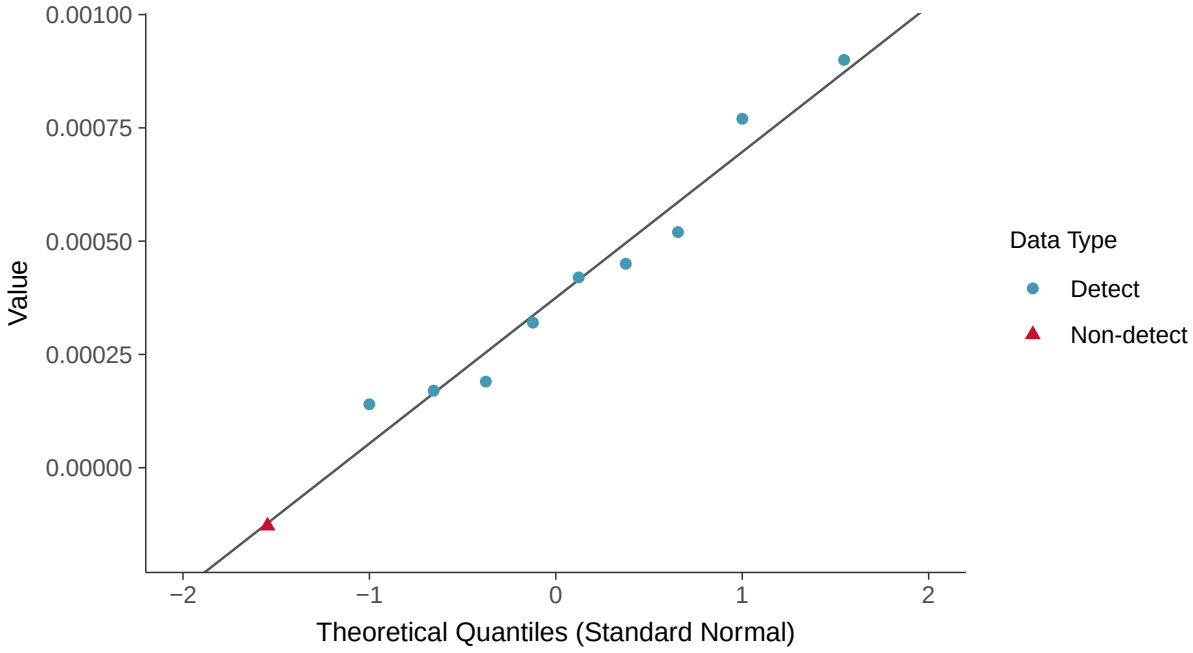
Boxplot by Season

Lead, MW-17 (mg/L)



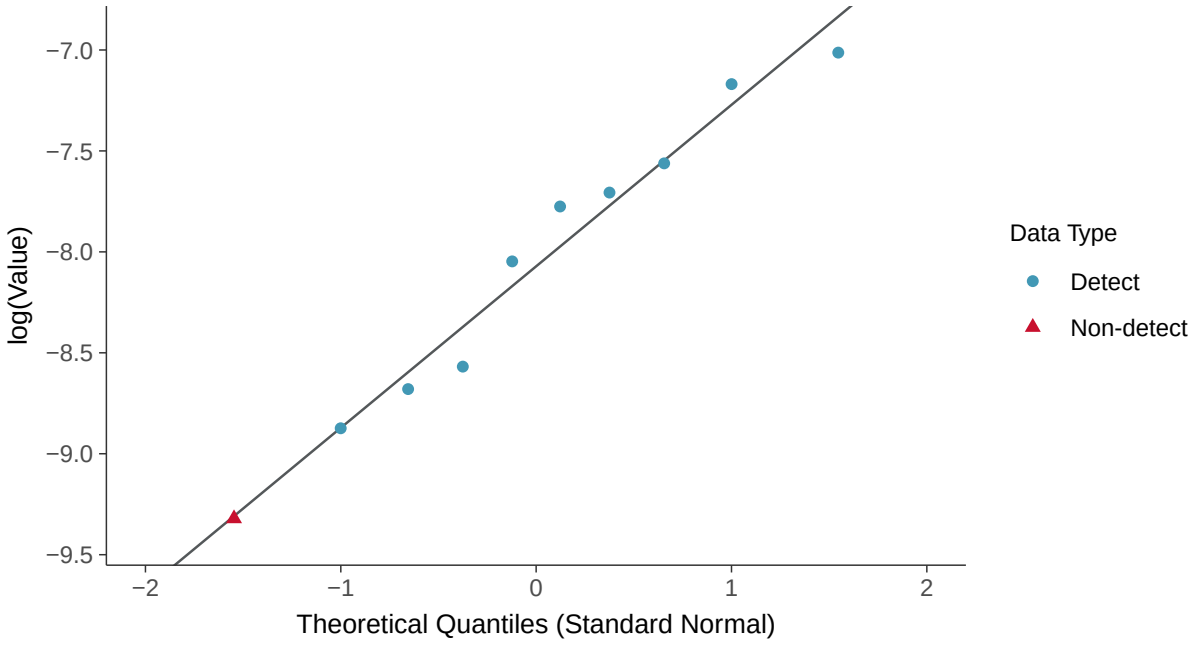
Normal Q-Q plot using ROS Imputed Estimates

Lead, MW-17 (mg/L)



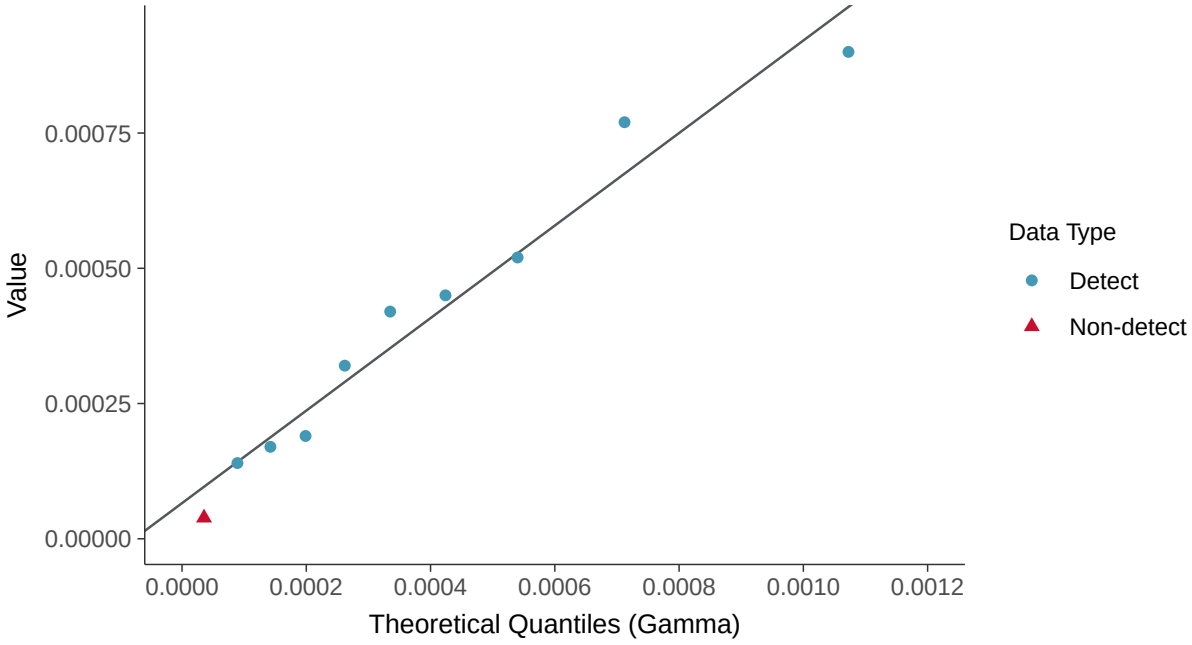
Lognormal Q-Q plot using ROS Imputed Estimates

Lead, MW-17 (mg/L)



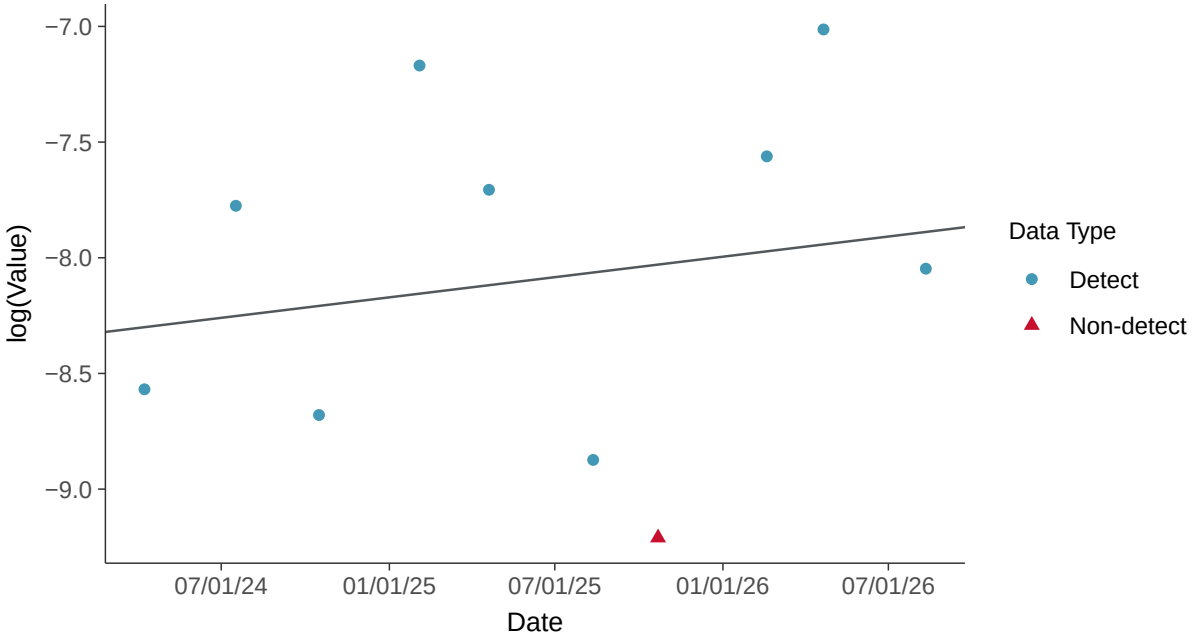
Gamma Q-Q plot using ROS Imputed Estimates

Lead, MW-17 (mg/L)



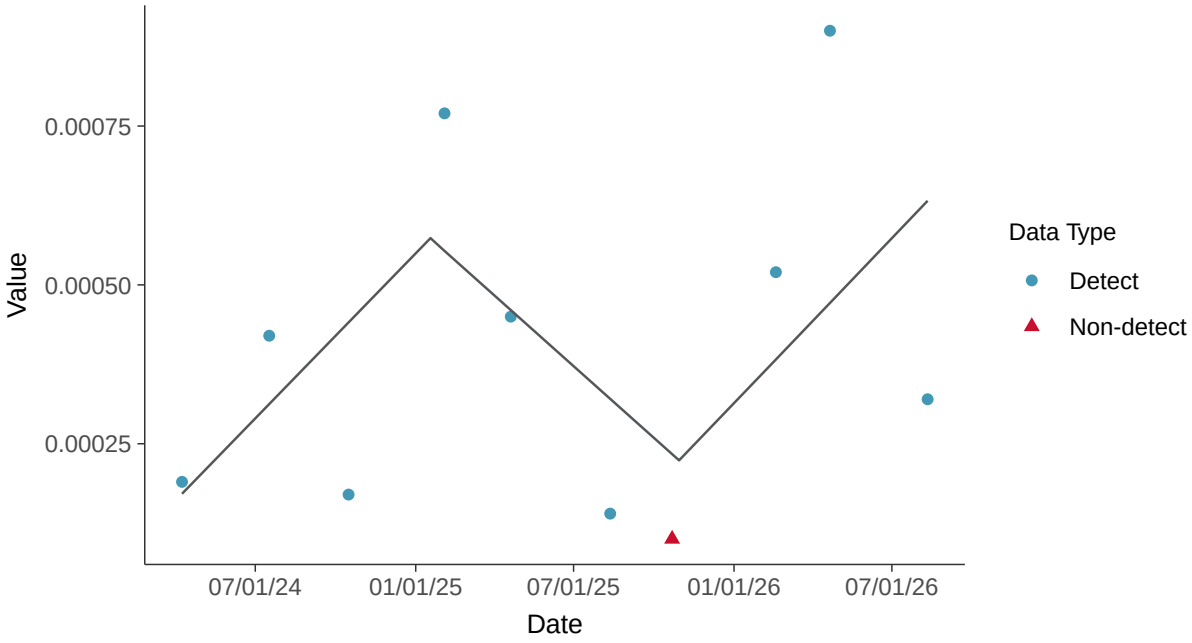
Trend Regression: Lognormal MLE

Lead, MW-17 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Lead, MW-17 (mg/L)

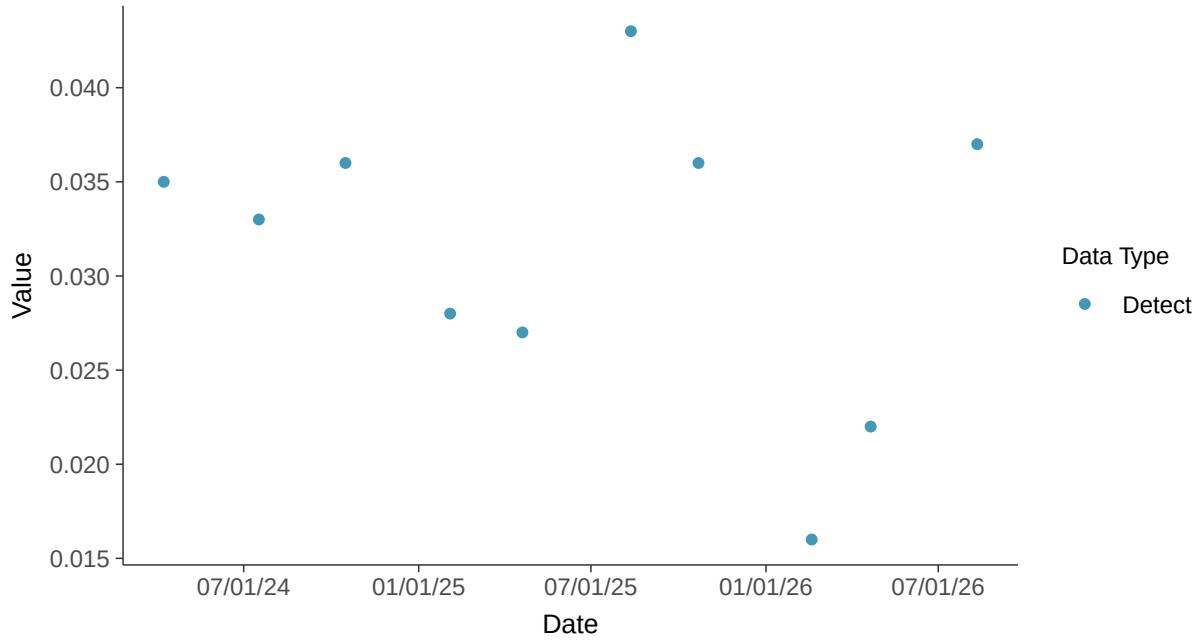


Appendix IV: Lithium, MW-17

ID: 27_1_4_116

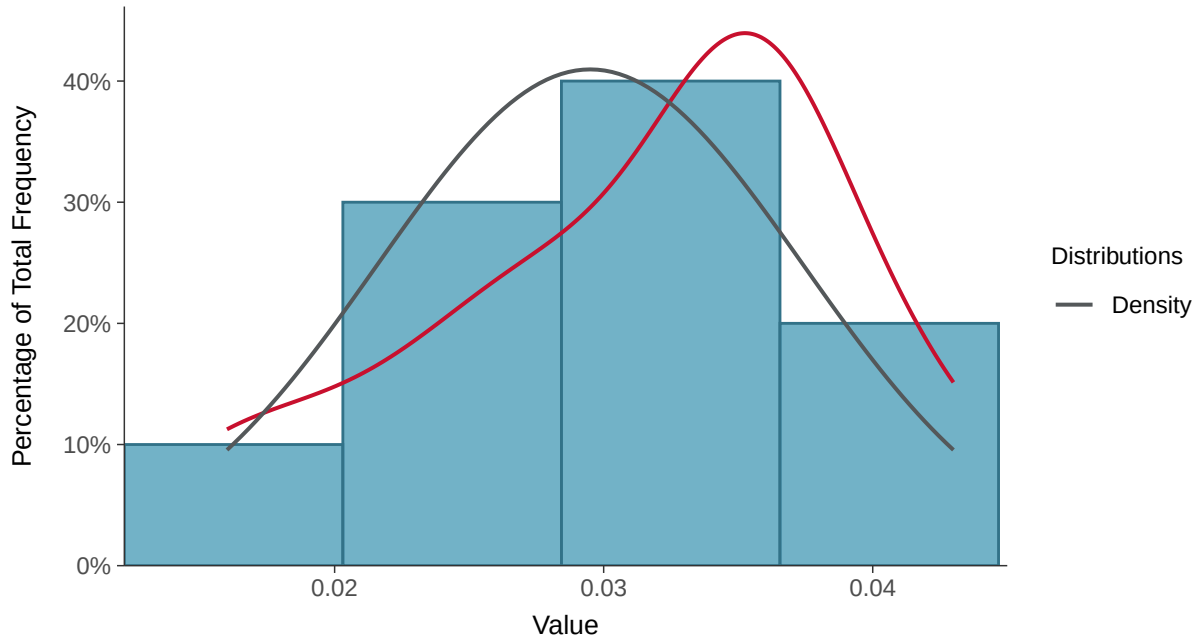
Scatter Plot

Lithium, MW-17 (mg/L)



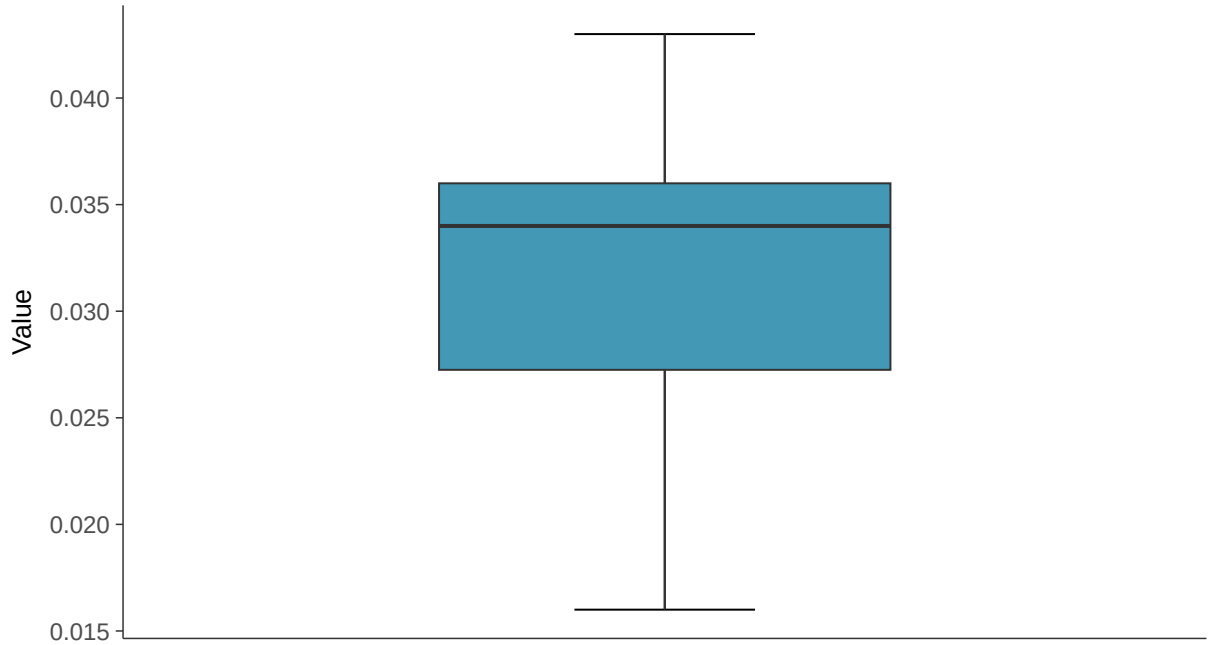
Histogram

Lithium, MW-17 (mg/L)



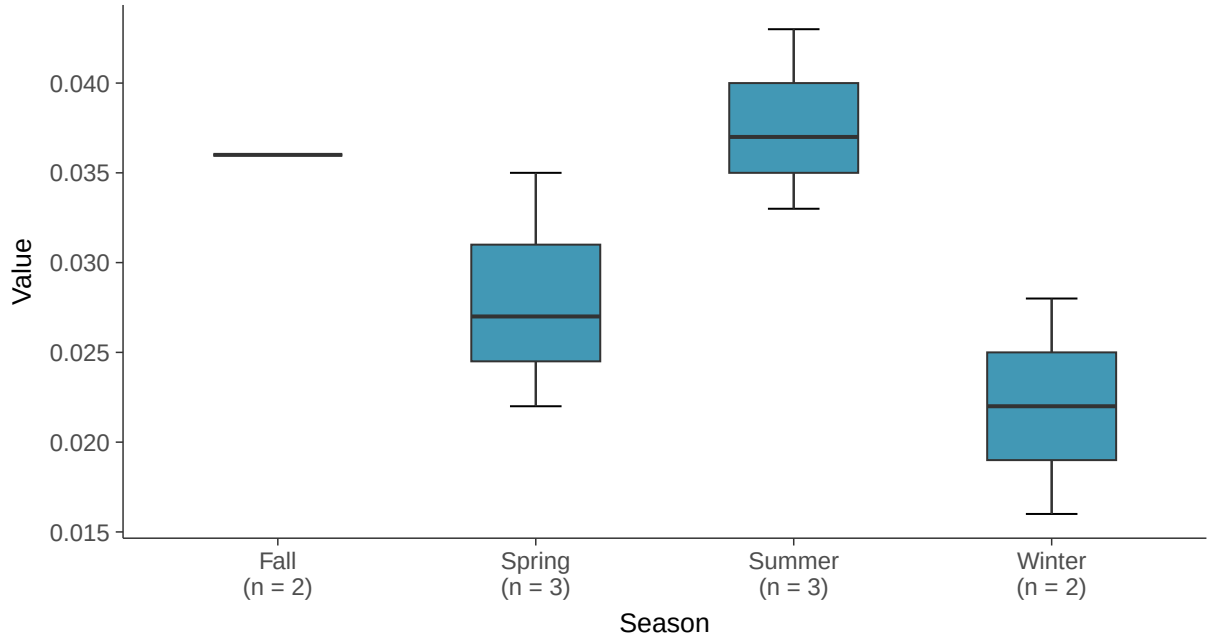
Boxplot

Lithium, MW-17 (mg/L)



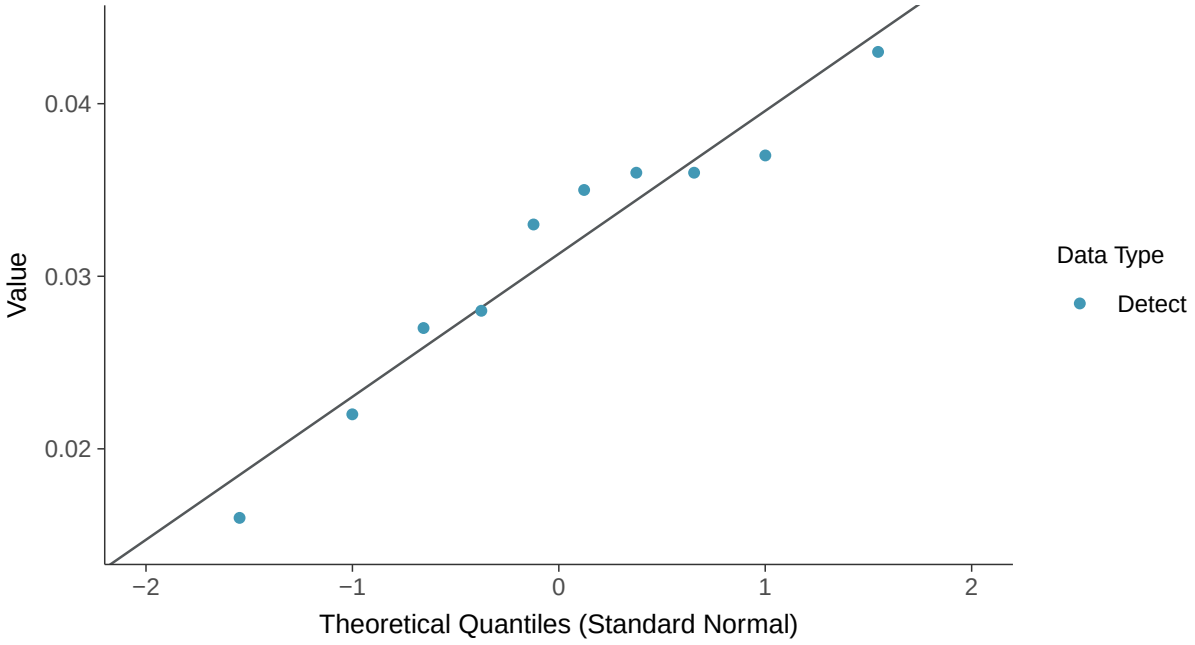
Boxplot by Season

Lithium, MW-17 (mg/L)



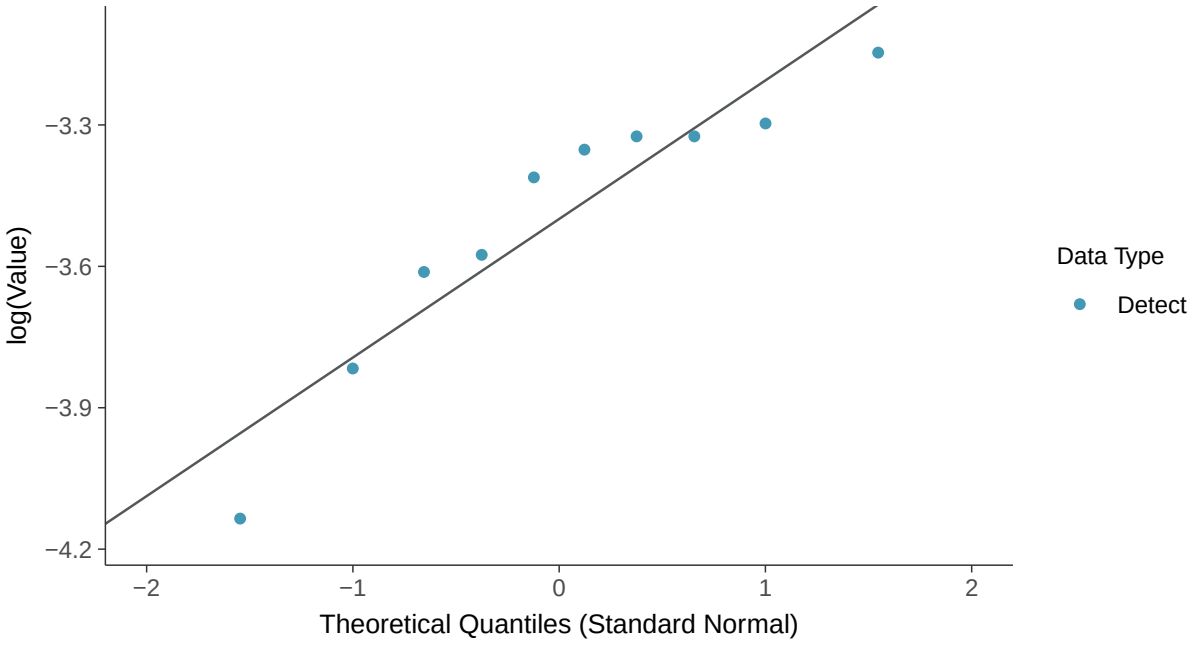
Normal Q-Q plot

Lithium, MW-17 (mg/L)



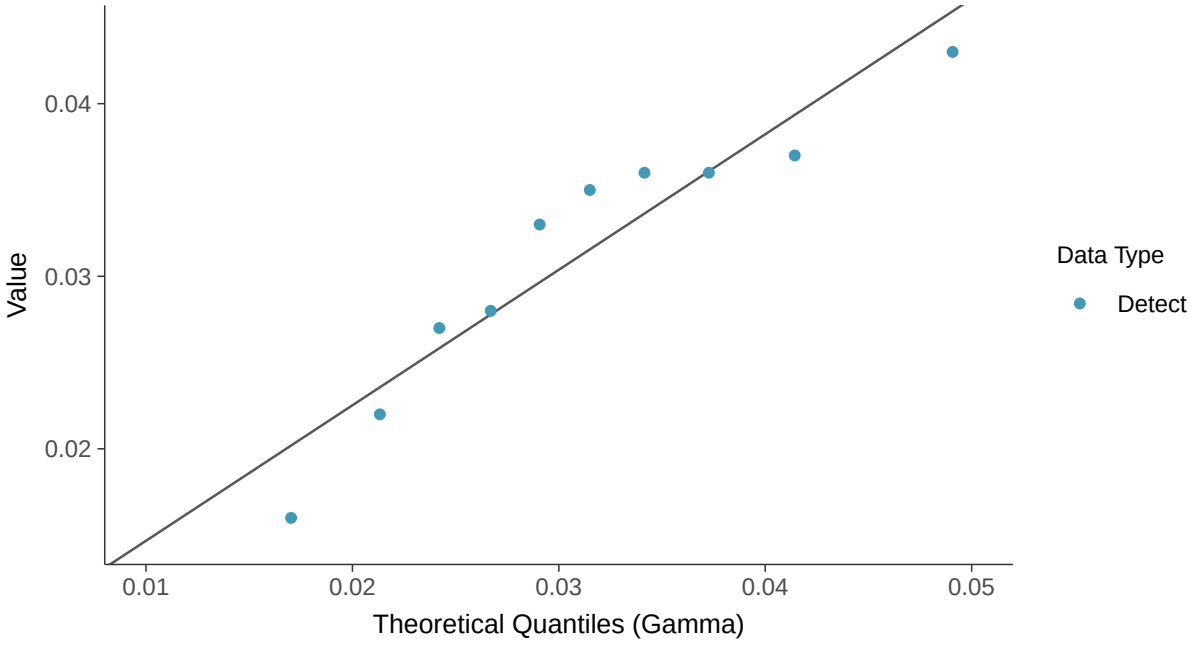
Lognormal Q-Q plot

Lithium, MW-17 (mg/L)



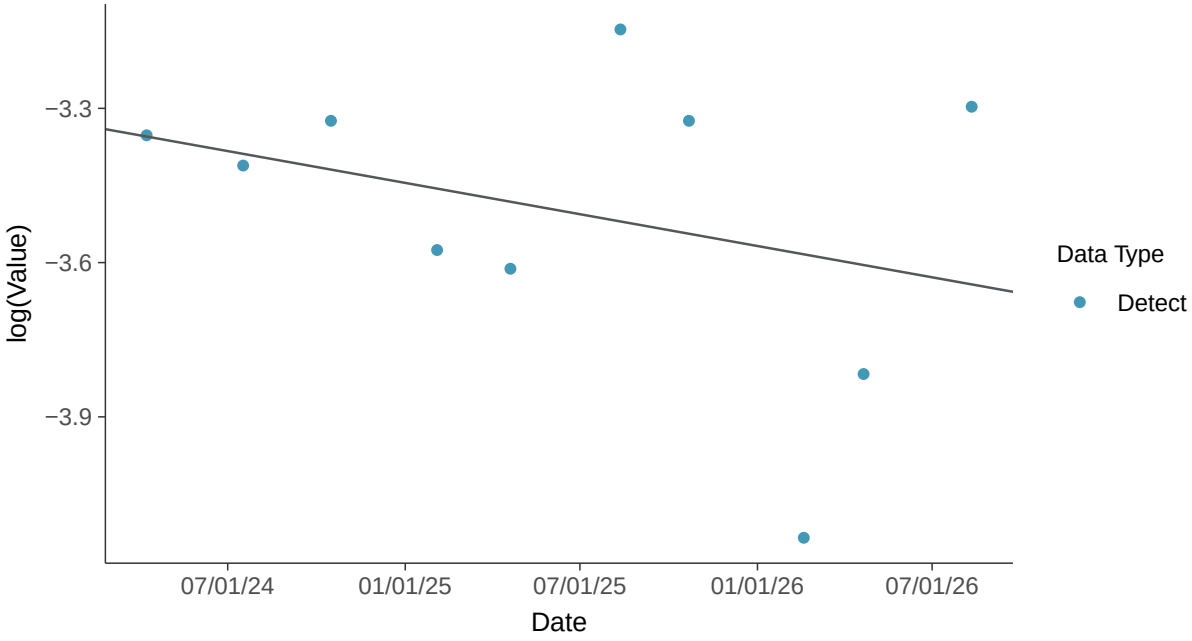
Gamma Q-Q plot

Lithium, MW-17 (mg/L)



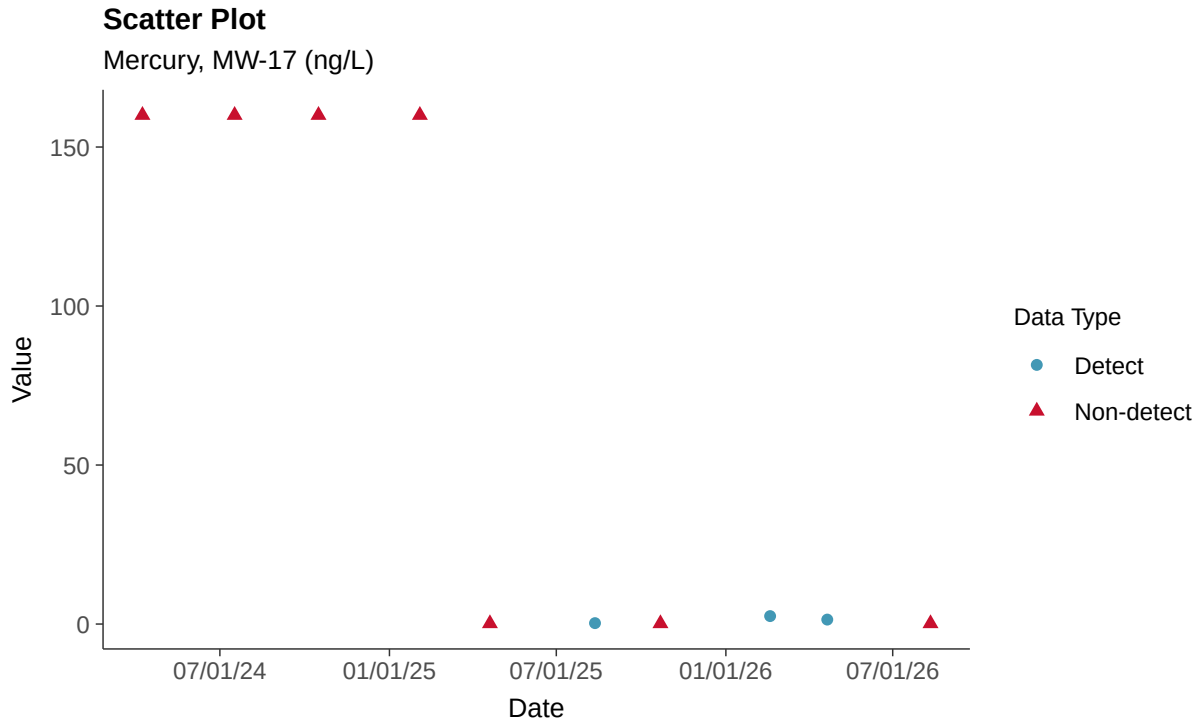
Trend Regression: Lognormal MLE

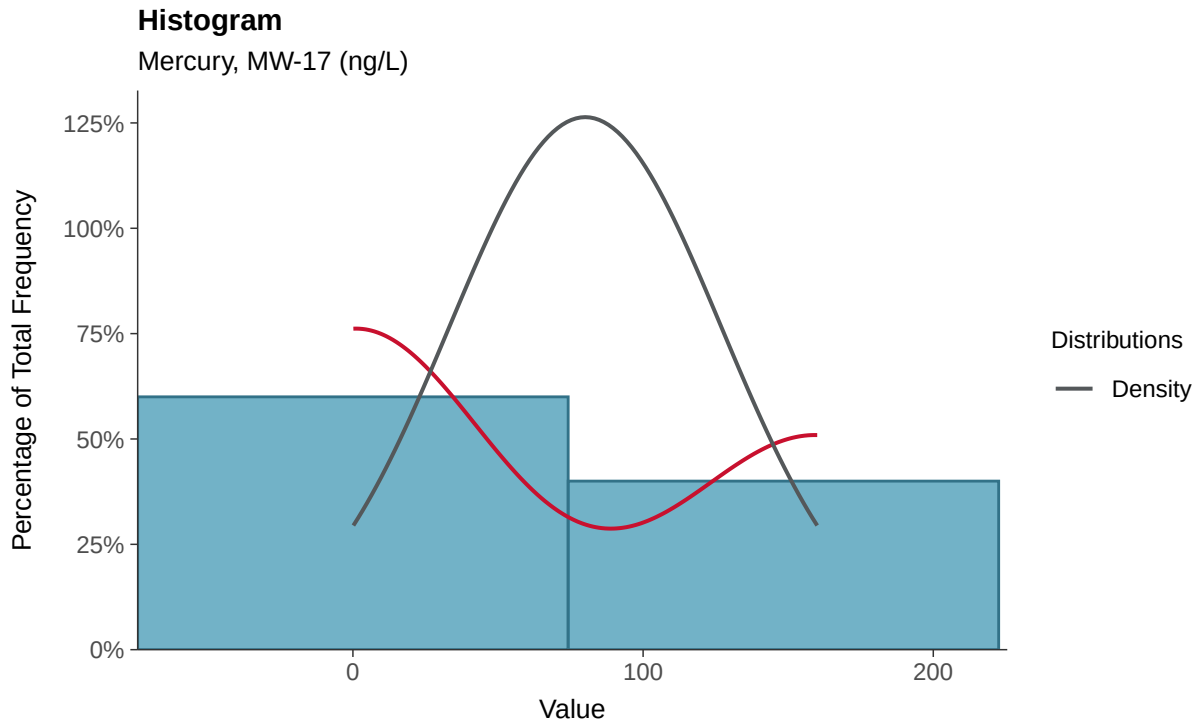
Lithium, MW-17 (mg/L)



Appendix IV: Mercury, MW-17

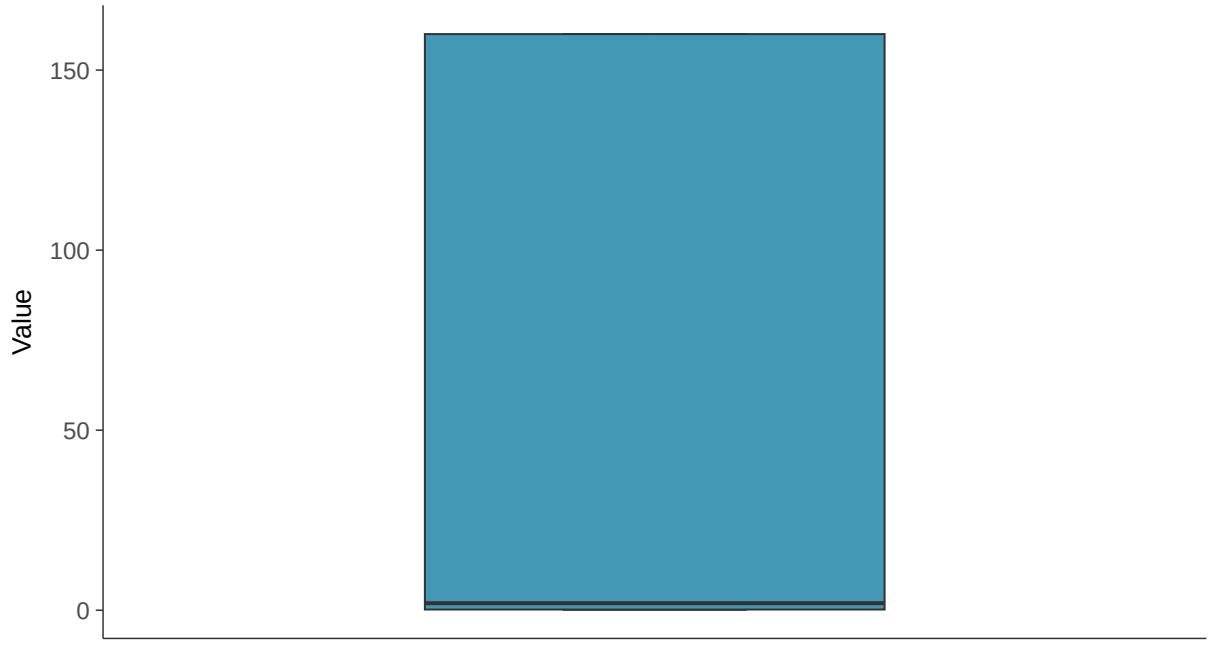
ID: 27_1_4_117





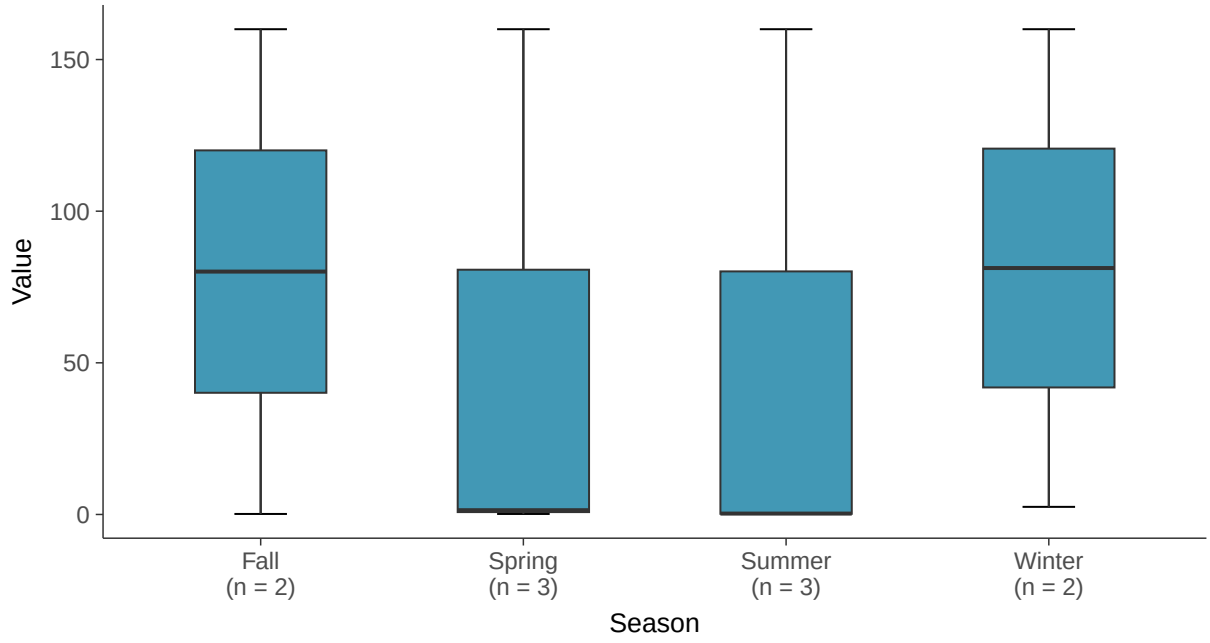
Boxplot

Mercury, MW-17 (ng/L)



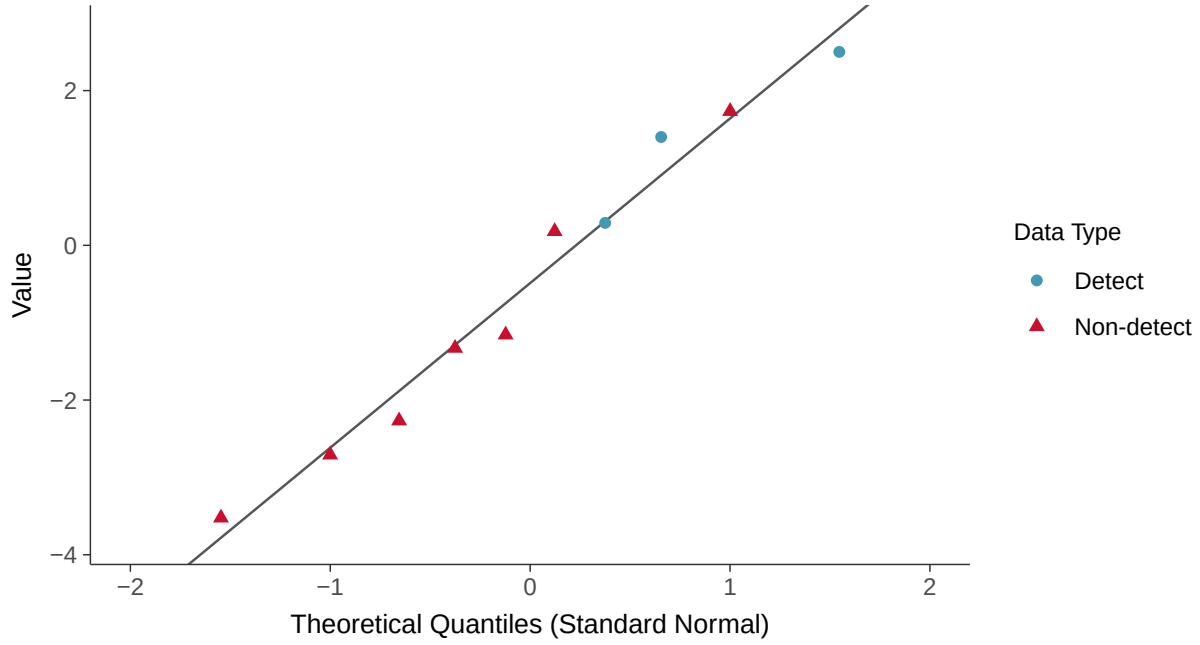
Boxplot by Season

Mercury, MW-17 (ng/L)



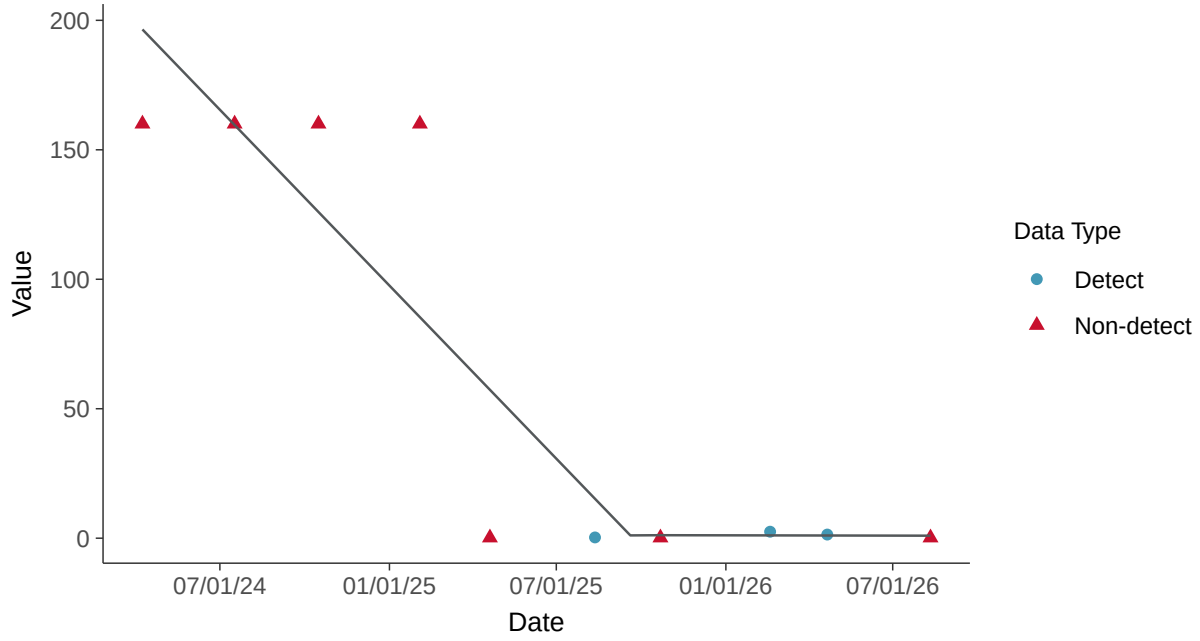
Normal Q-Q plot using ROS Imputed Estimates

Mercury, MW-17 (ng/L)



Trend Regression: Piecewise Linear-Linear

Mercury, MW-17 (ng/L)

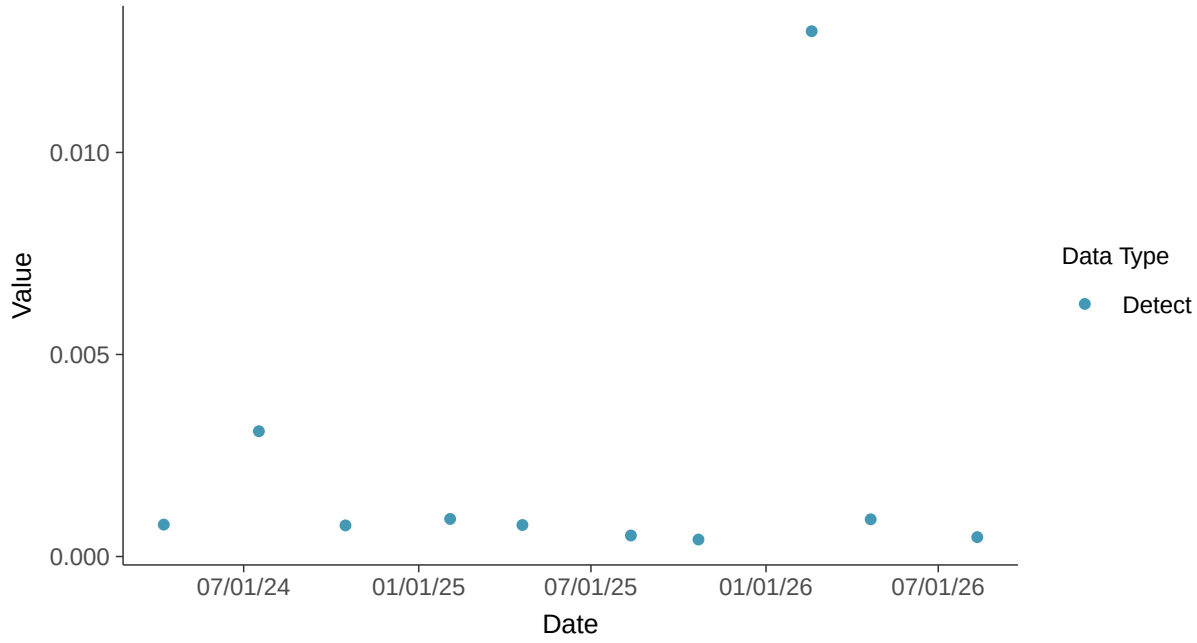


Appendix IV: Molybdenum, MW-17

ID: 27_1_4_118

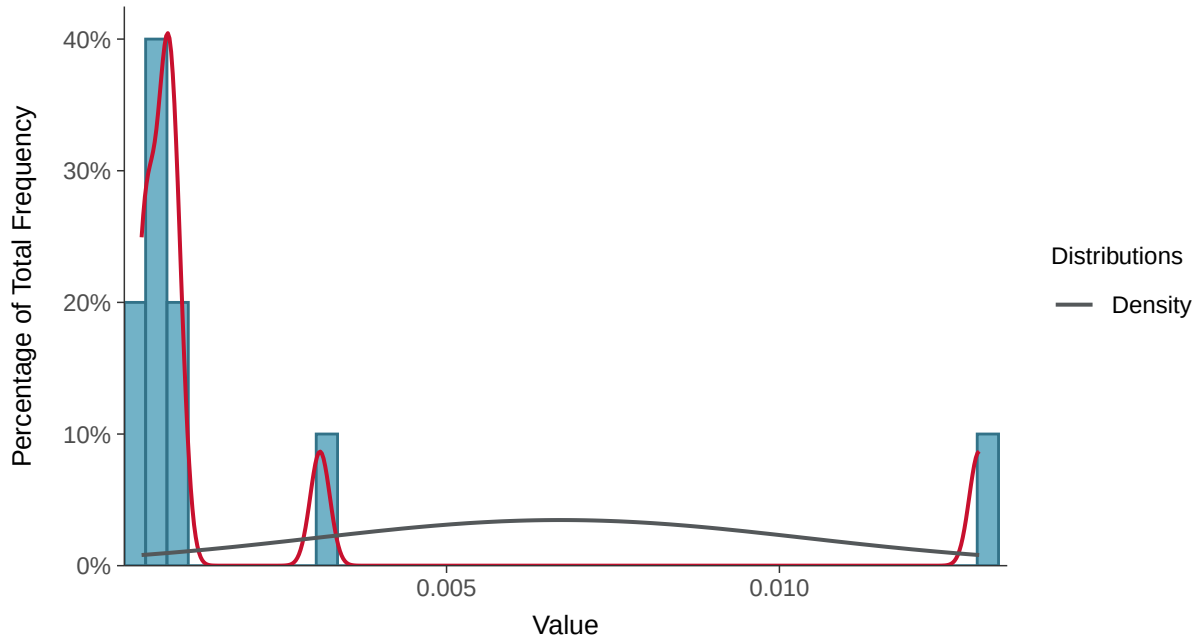
Scatter Plot

Molybdenum, MW-17 (mg/L)



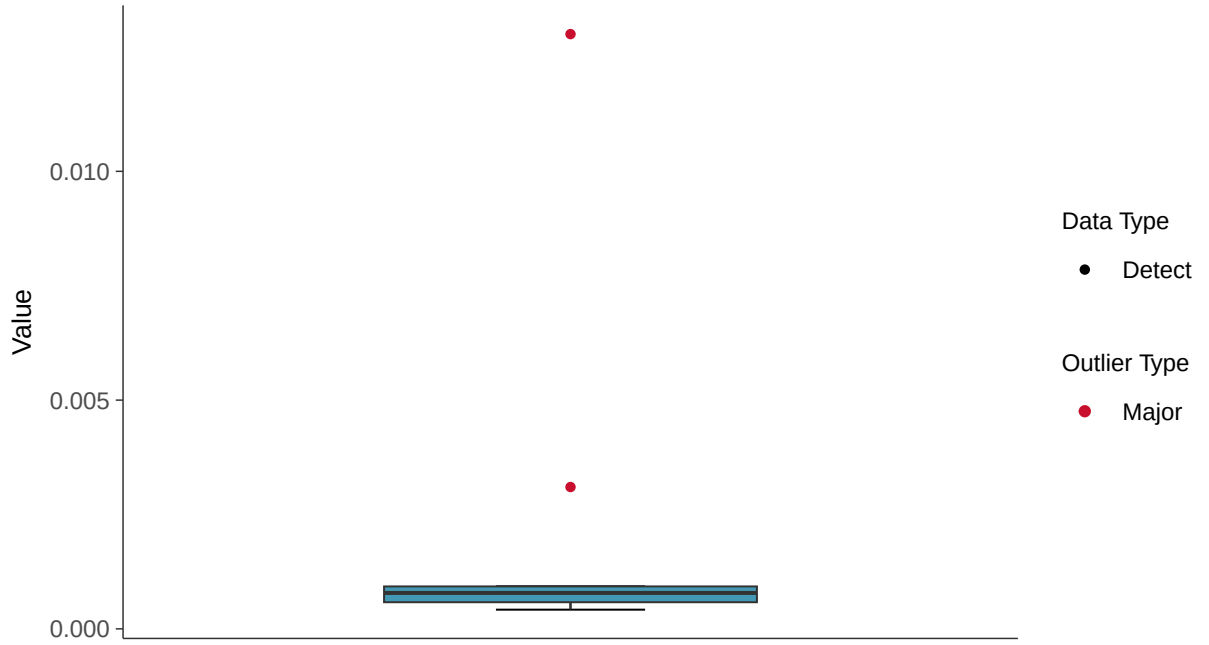
Histogram

Molybdenum, MW-17 (mg/L)



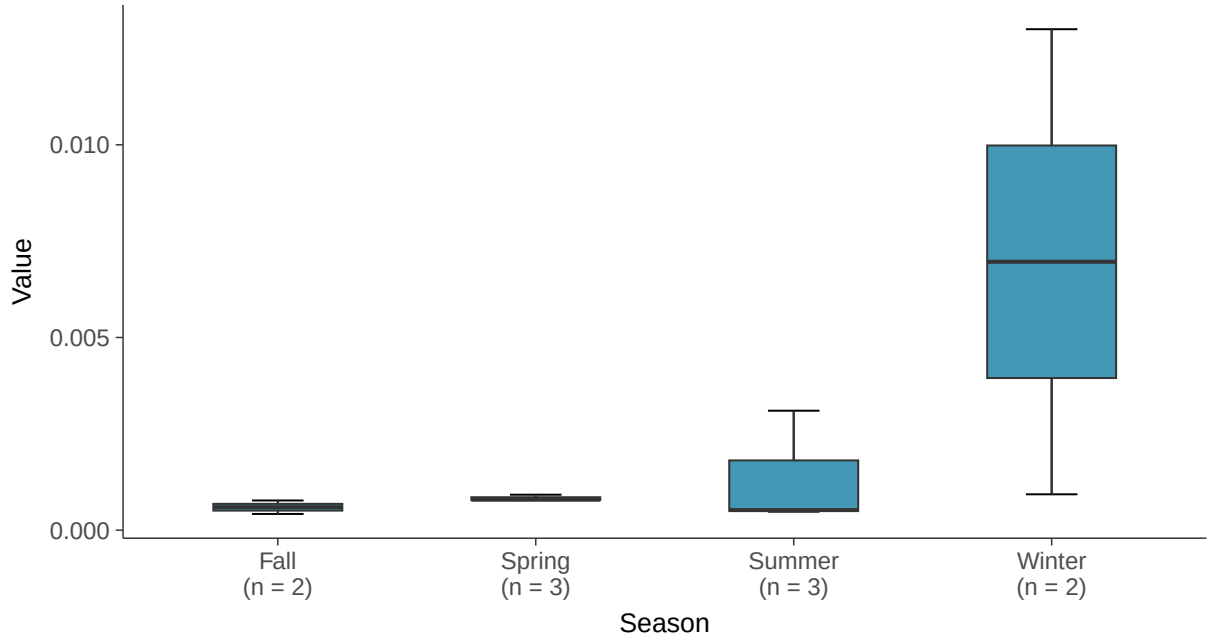
Boxplot

Molybdenum, MW-17 (mg/L)



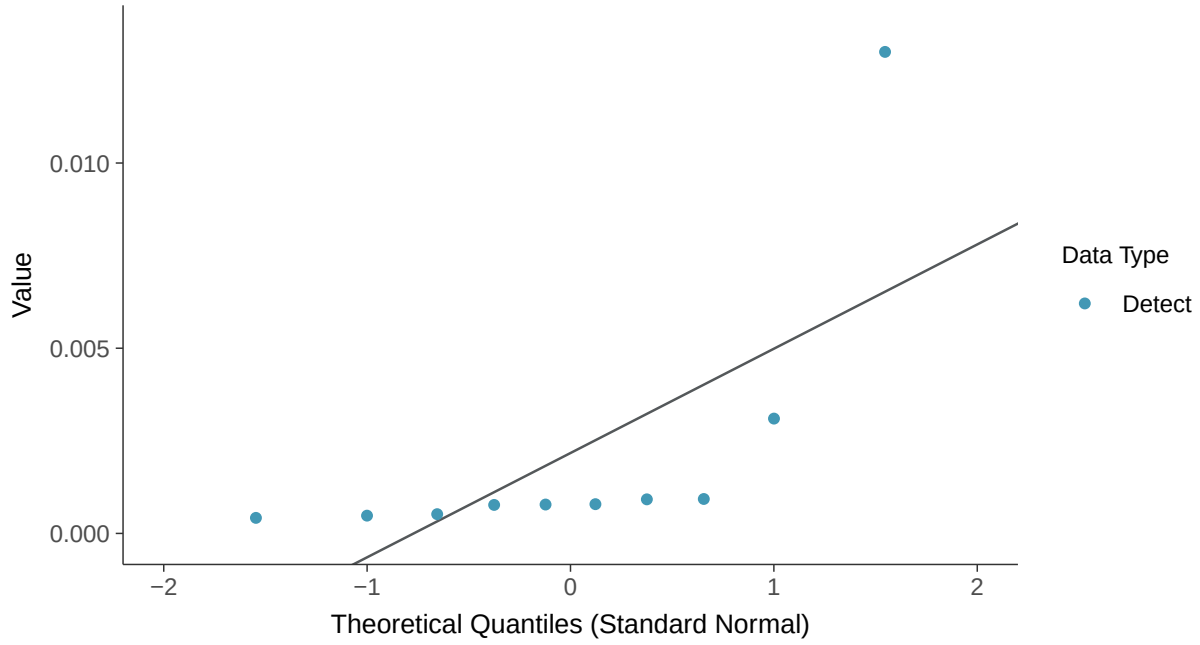
Boxplot by Season

Molybdenum, MW-17 (mg/L)



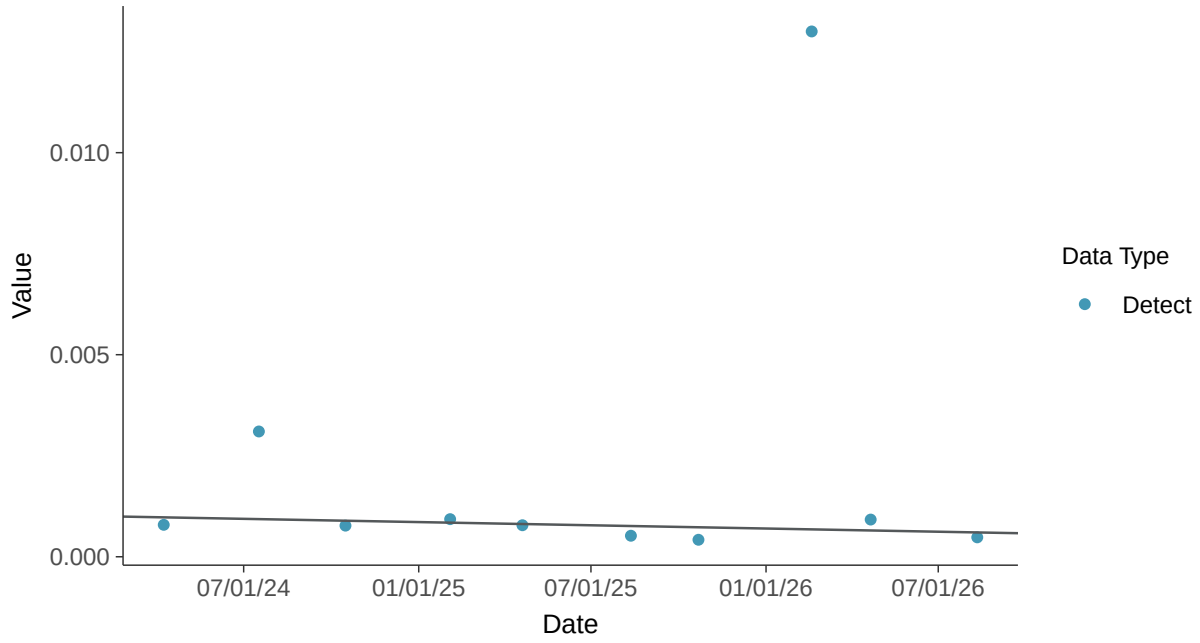
Normal Q-Q plot

Molybdenum, MW-17 (mg/L)



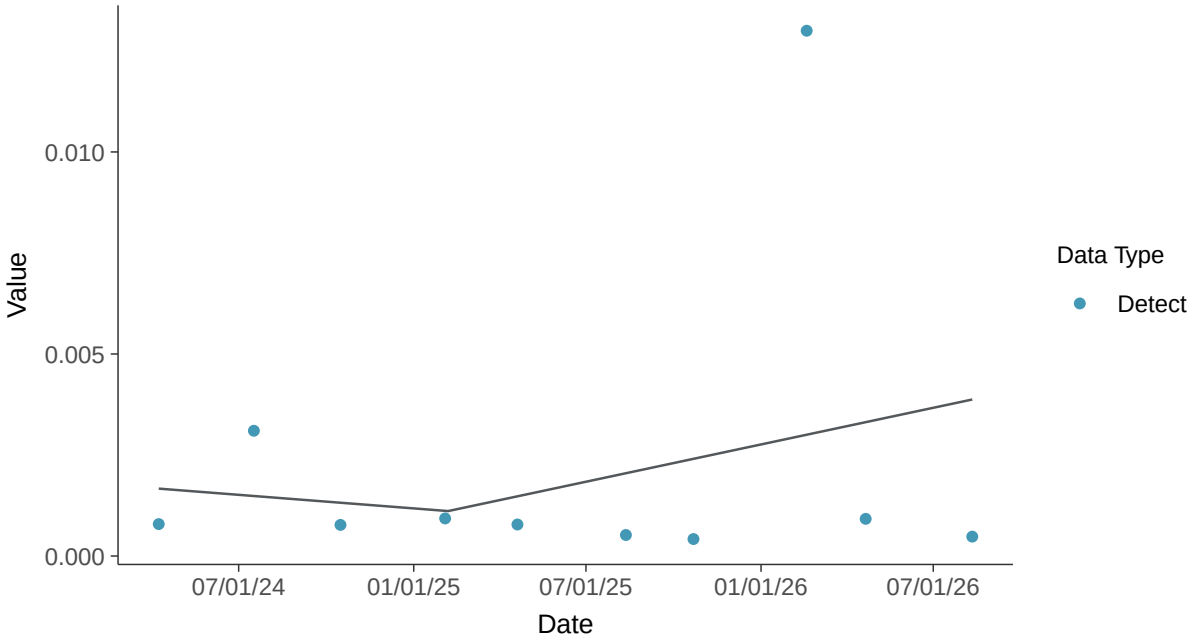
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Molybdenum, MW-17 (mg/L)



Trend Regression: Piecewise Linear-Linear

Molybdenum, MW-17 (mg/L)

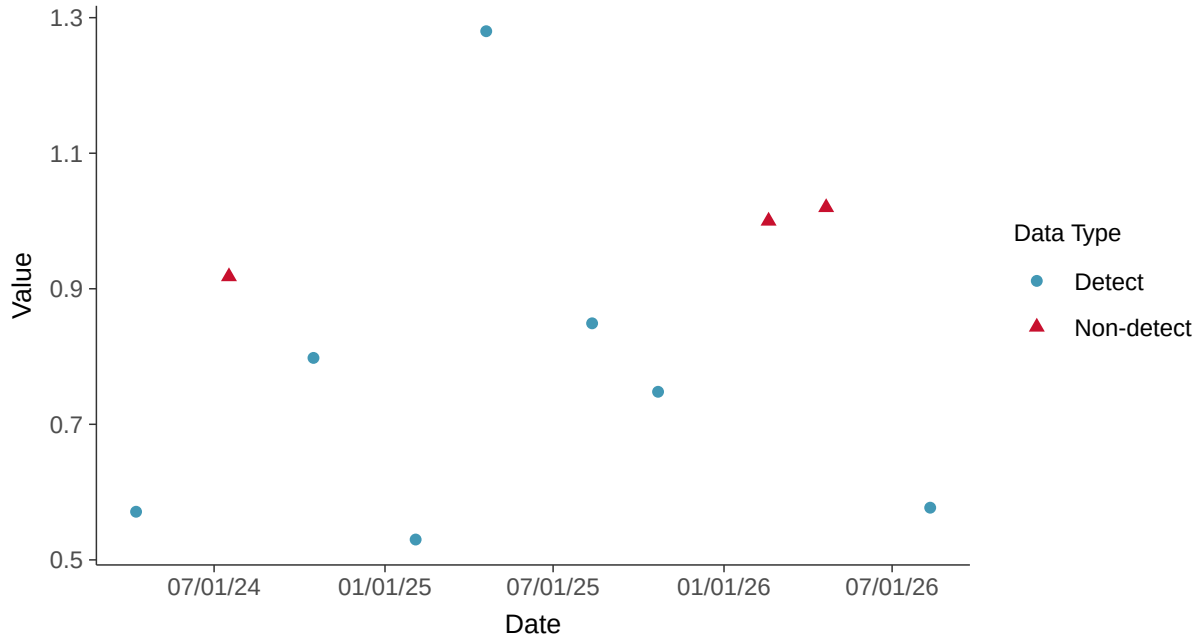


Appendix IV: Radium 226 and 228, MW-17

ID: 27_1_4_121

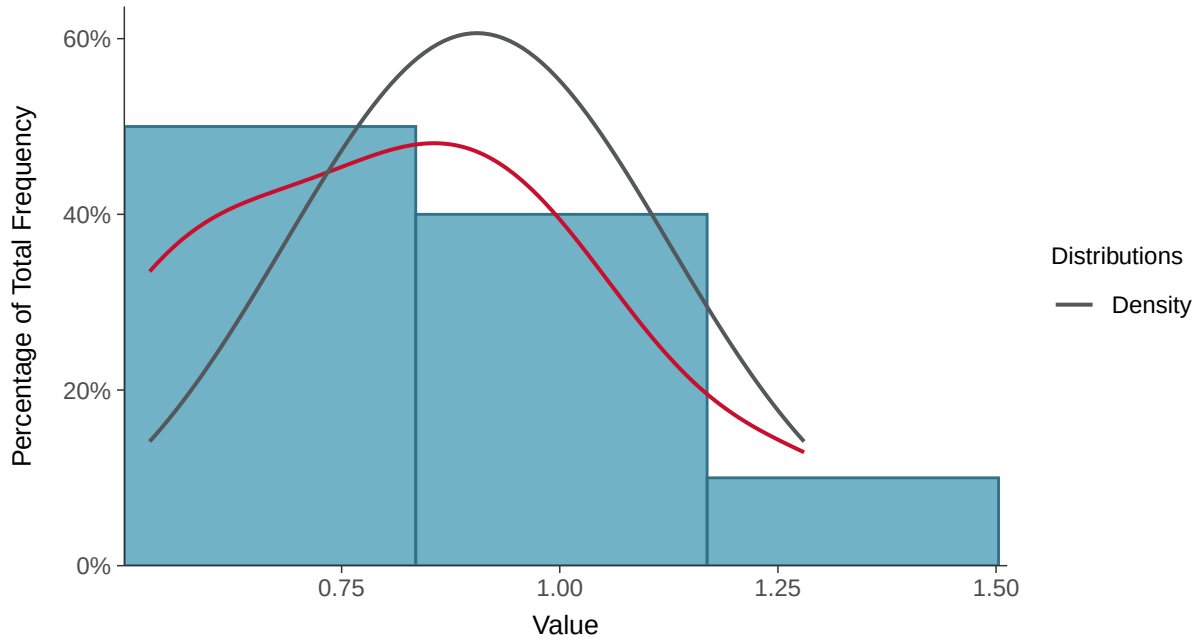
Scatter Plot

Radium 226 and 228, MW-17 (pCi/L)



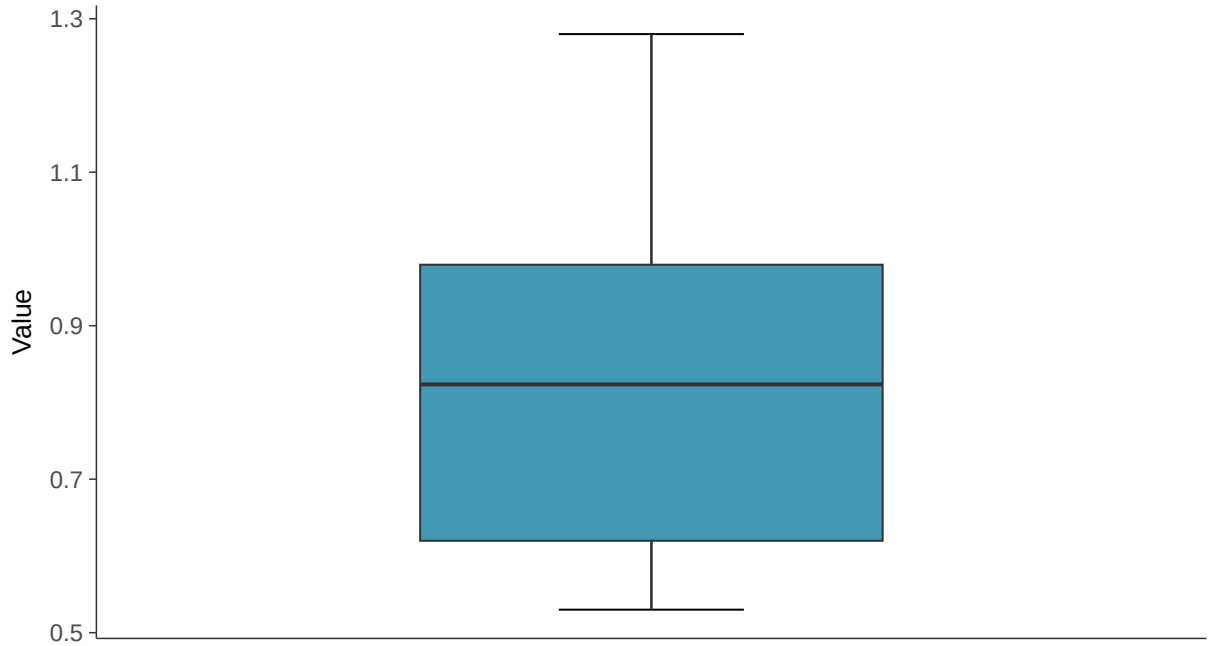
Histogram

Radium 226 and 228, MW-17 (pCi/L)



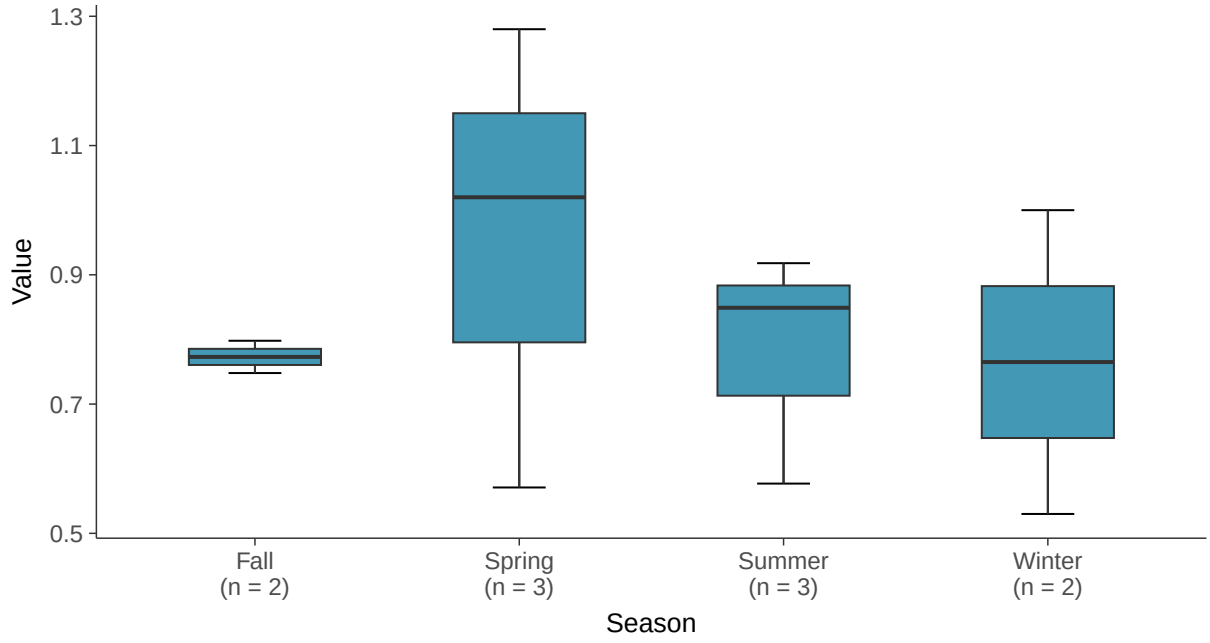
Boxplot

Radium 226 and 228, MW-17 (pCi/L)



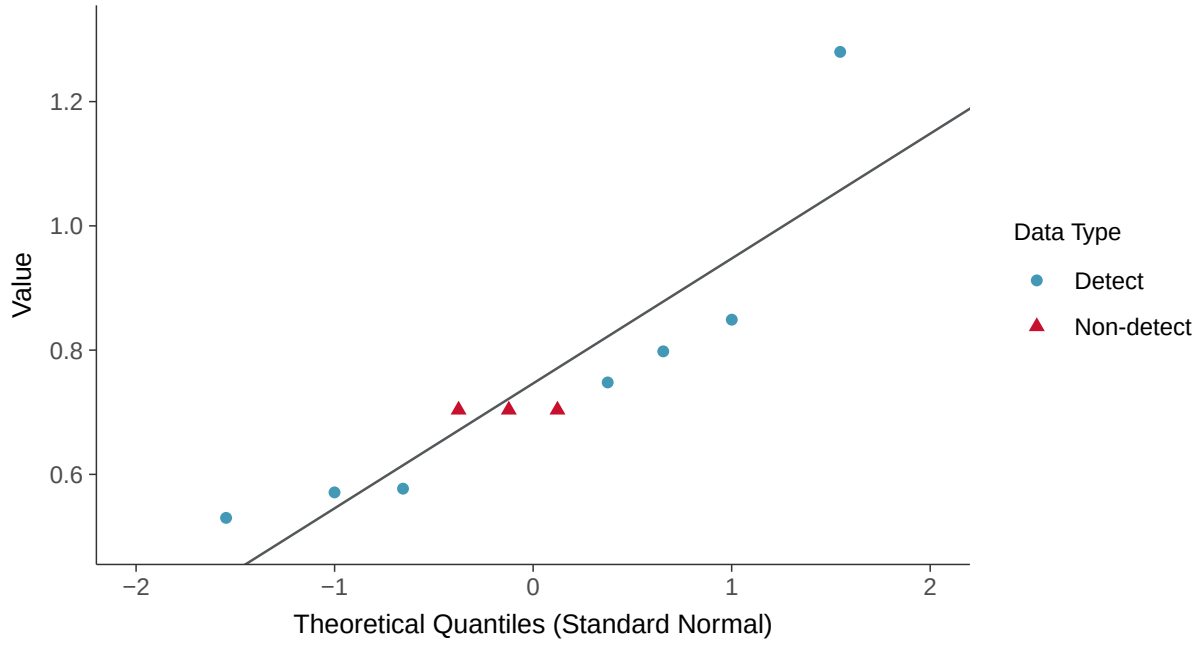
Boxplot by Season

Radium 226 and 228, MW-17 (pCi/L)



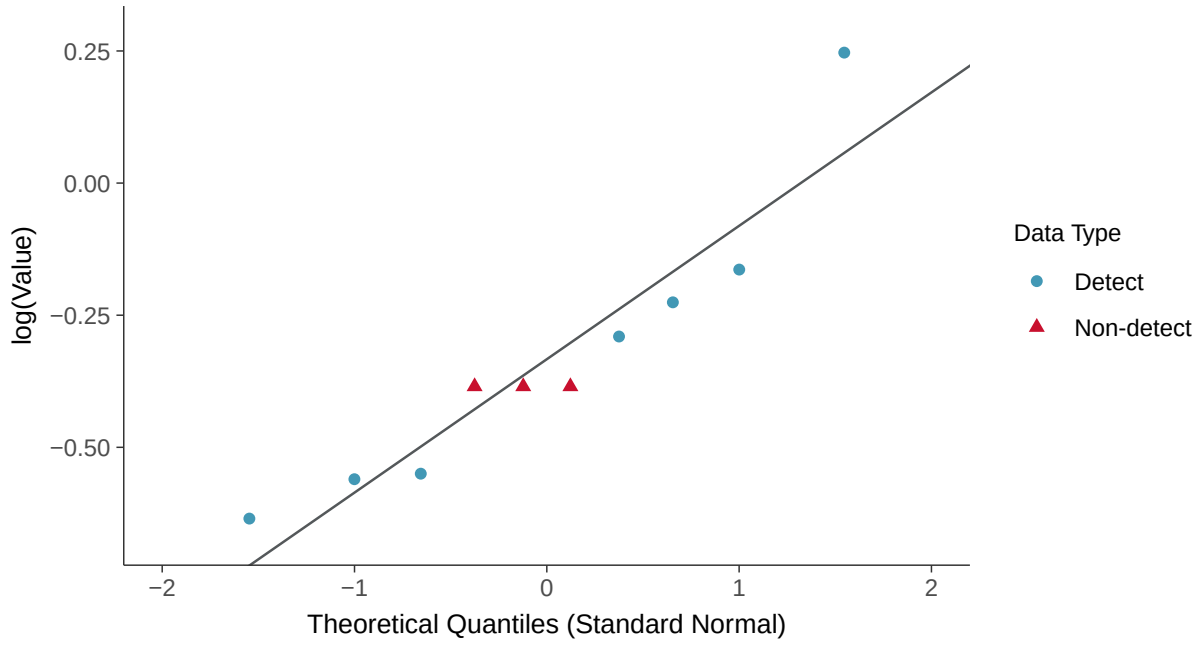
Normal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-17 (pCi/L)



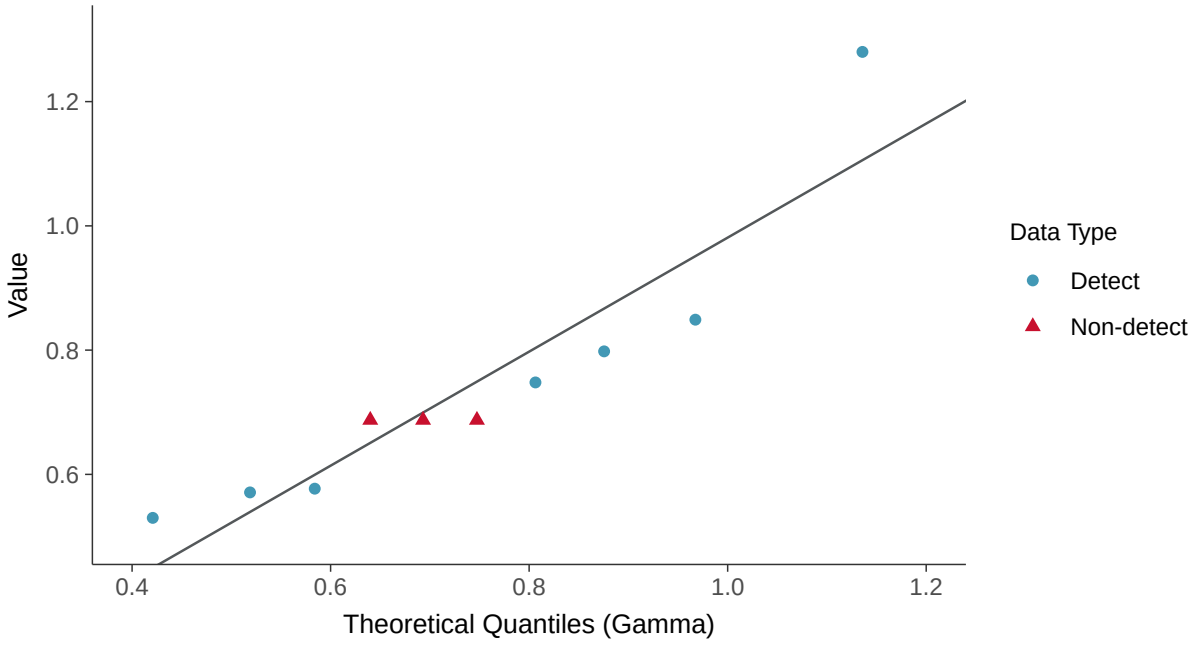
Lognormal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-17 (pCi/L)



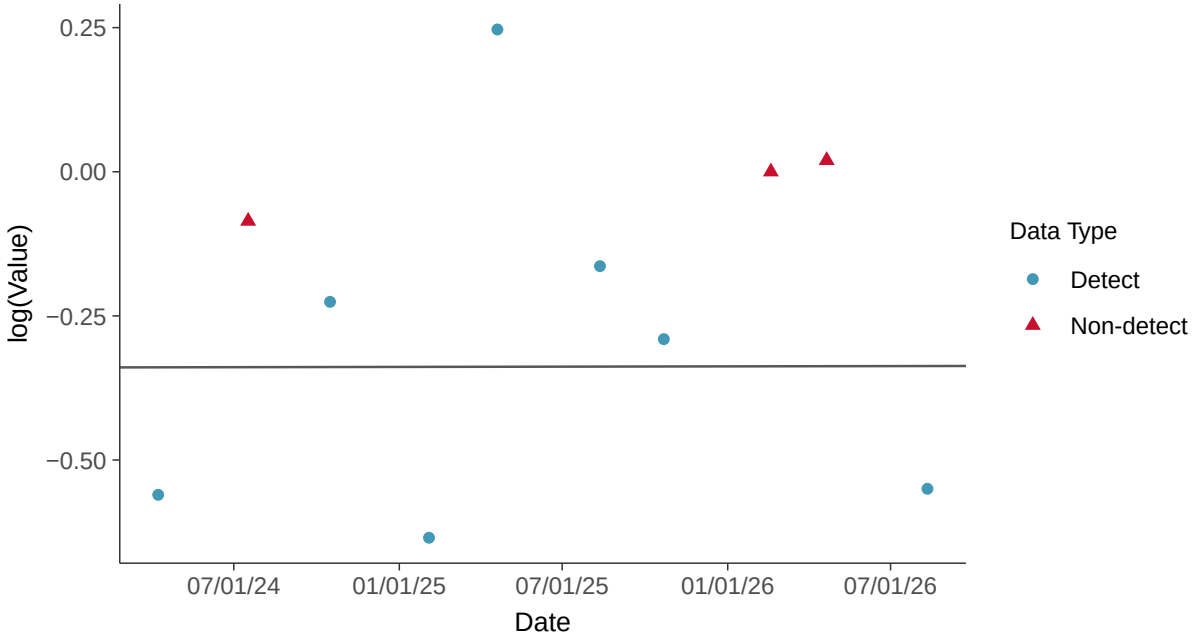
Gamma Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-17 (pCi/L)



Trend Regression: Lognormal MLE

Radium 226 and 228, MW-17 (pCi/L)

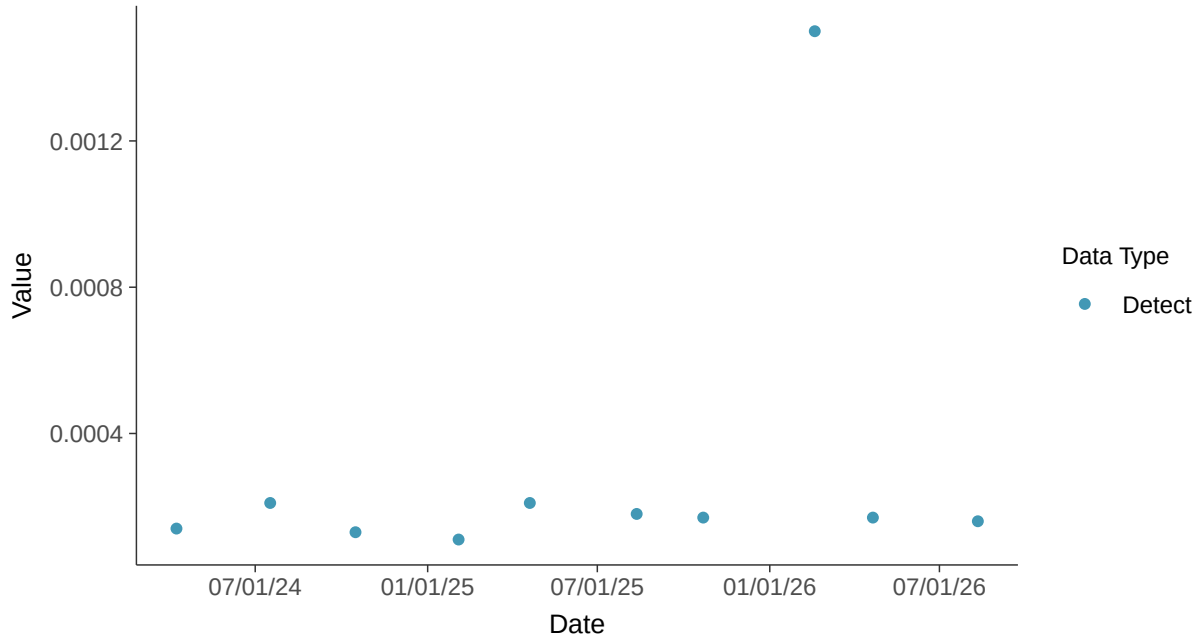


Appendix IV: Selenium, MW-17

ID: 27_1_4_122

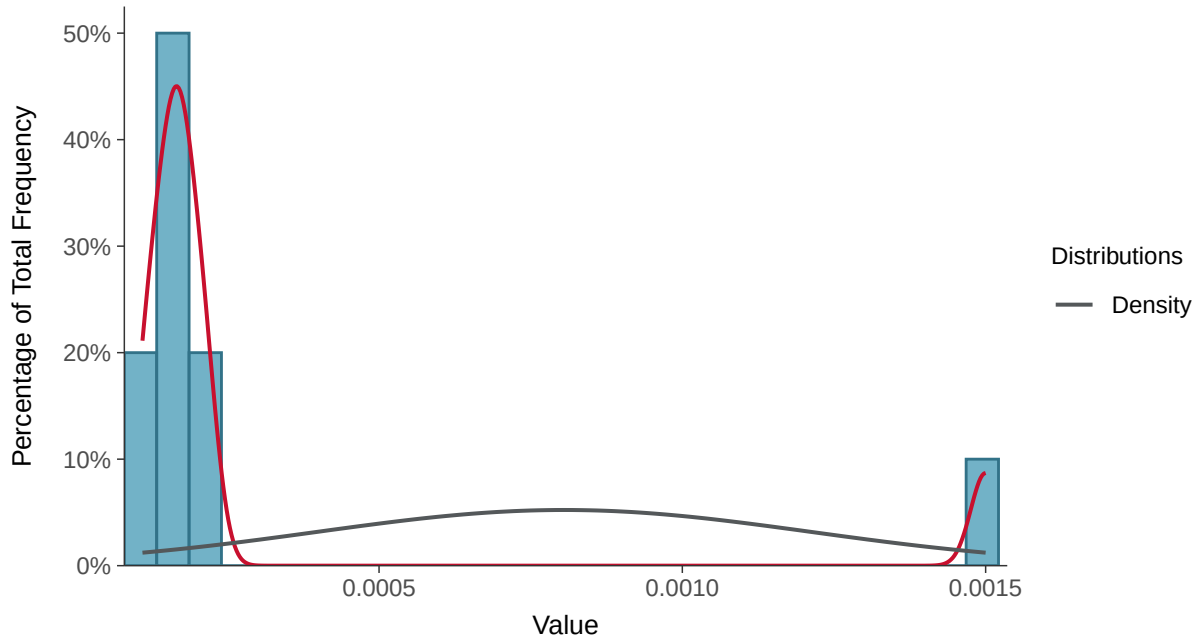
Scatter Plot

Selenium, MW-17 (mg/L)



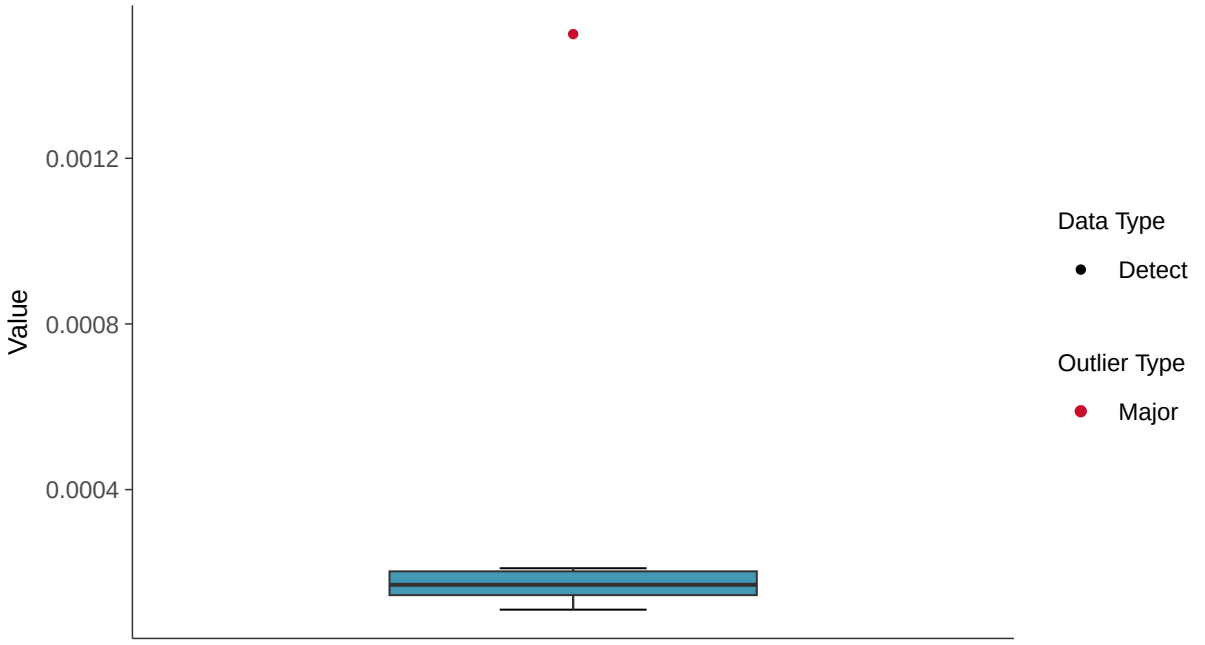
Histogram

Selenium, MW-17 (mg/L)



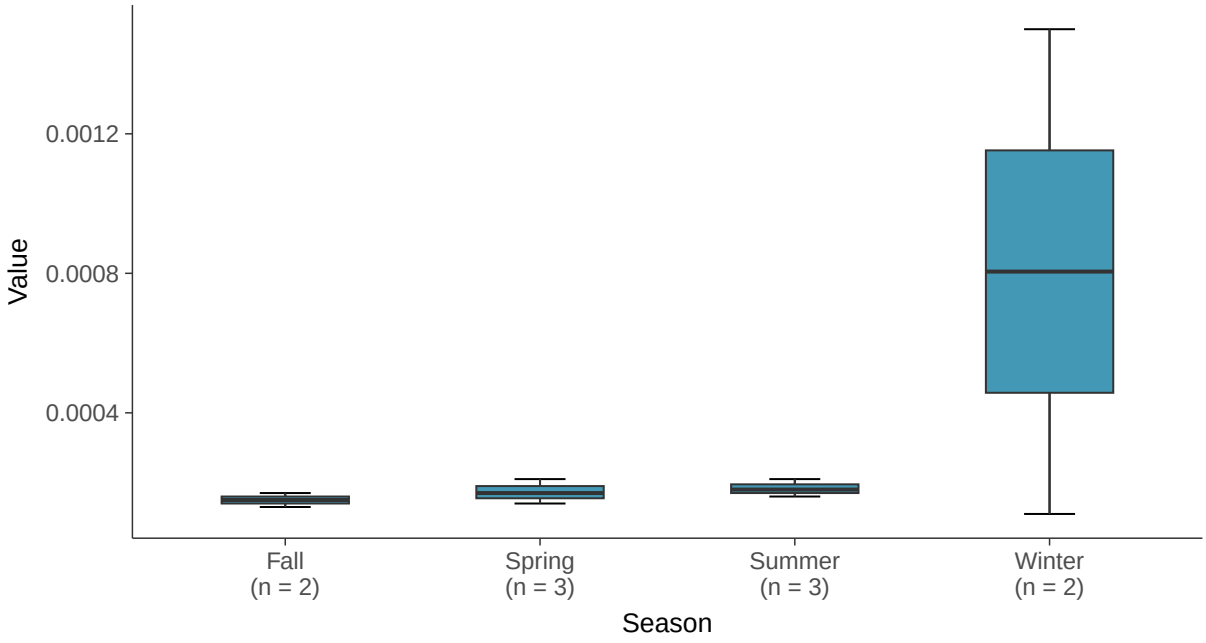
Boxplot

Selenium, MW-17 (mg/L)



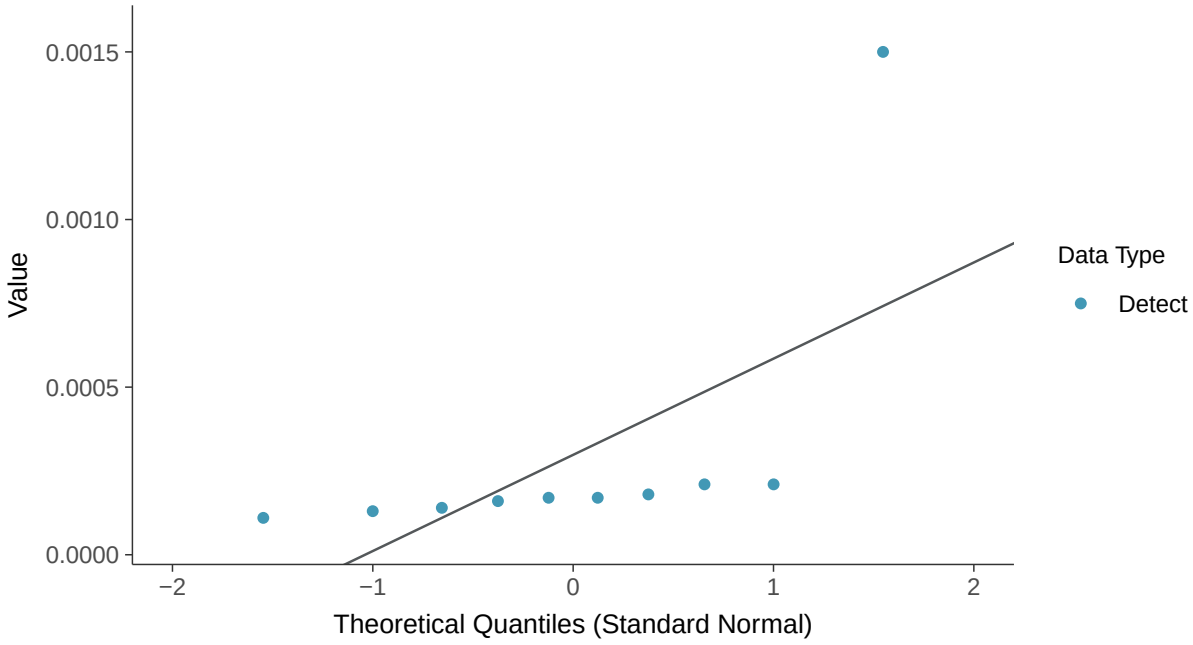
Boxplot by Season

Selenium, MW-17 (mg/L)



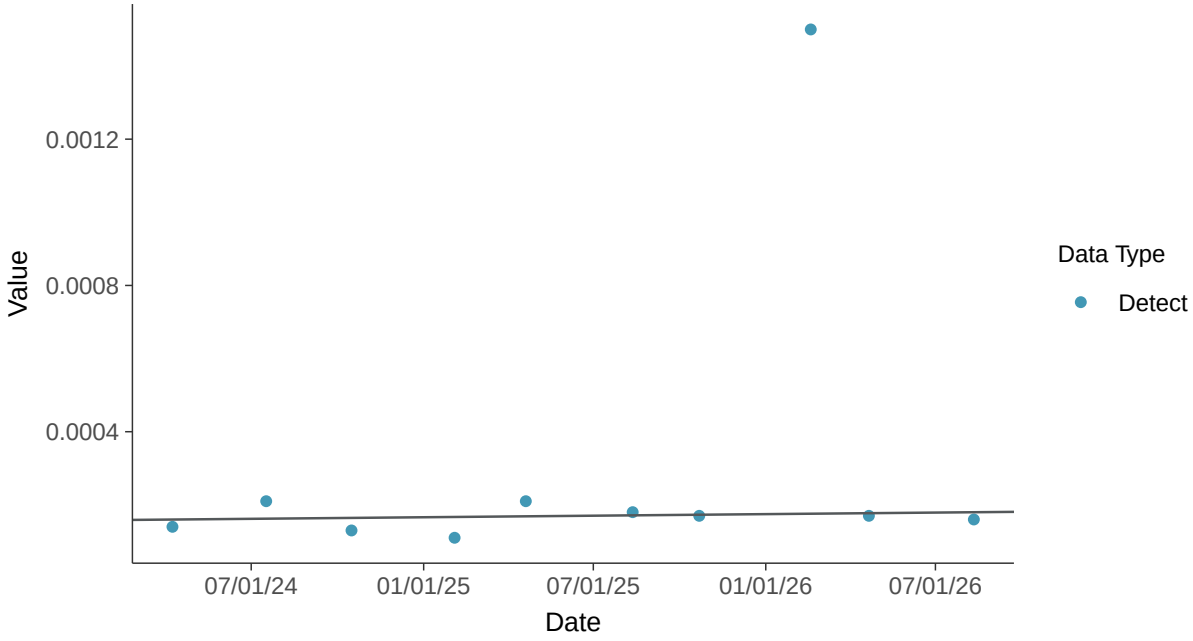
Normal Q-Q plot

Selenium, MW-17 (mg/L)



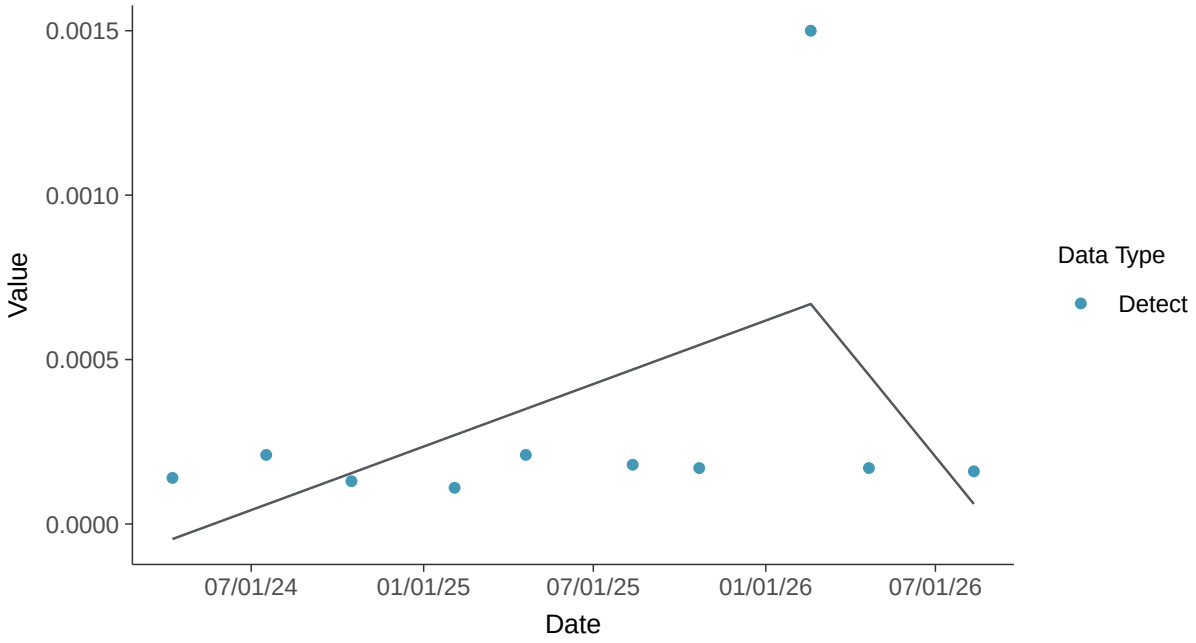
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Selenium, MW-17 (mg/L)



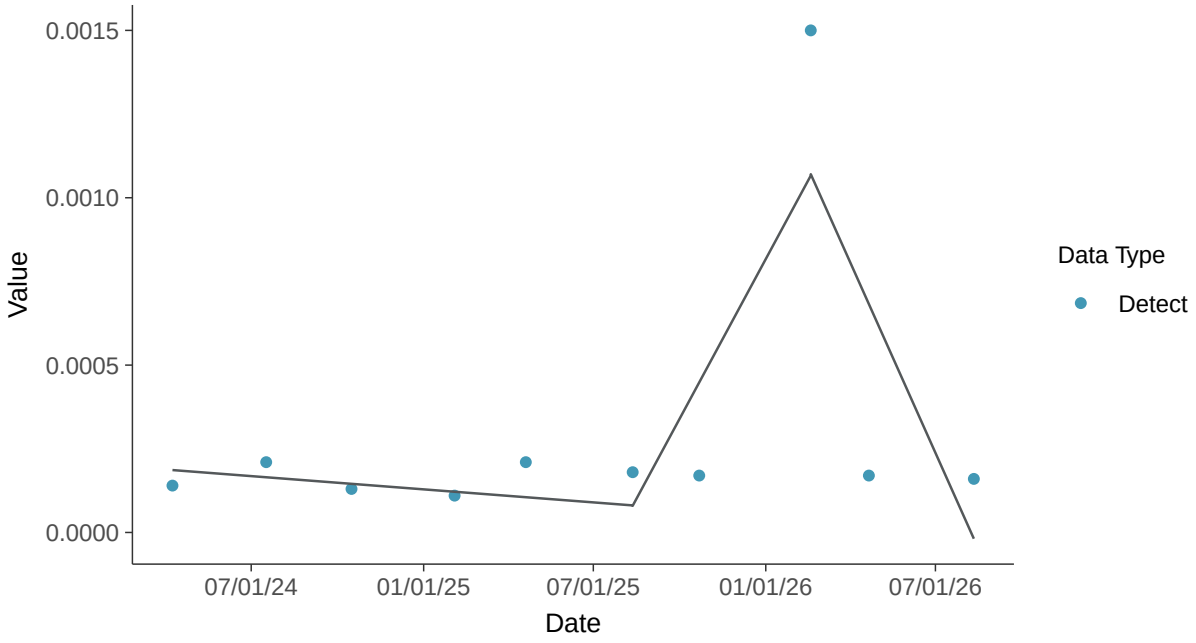
Trend Regression: Piecewise Linear-Linear

Selenium, MW-17 (mg/L)



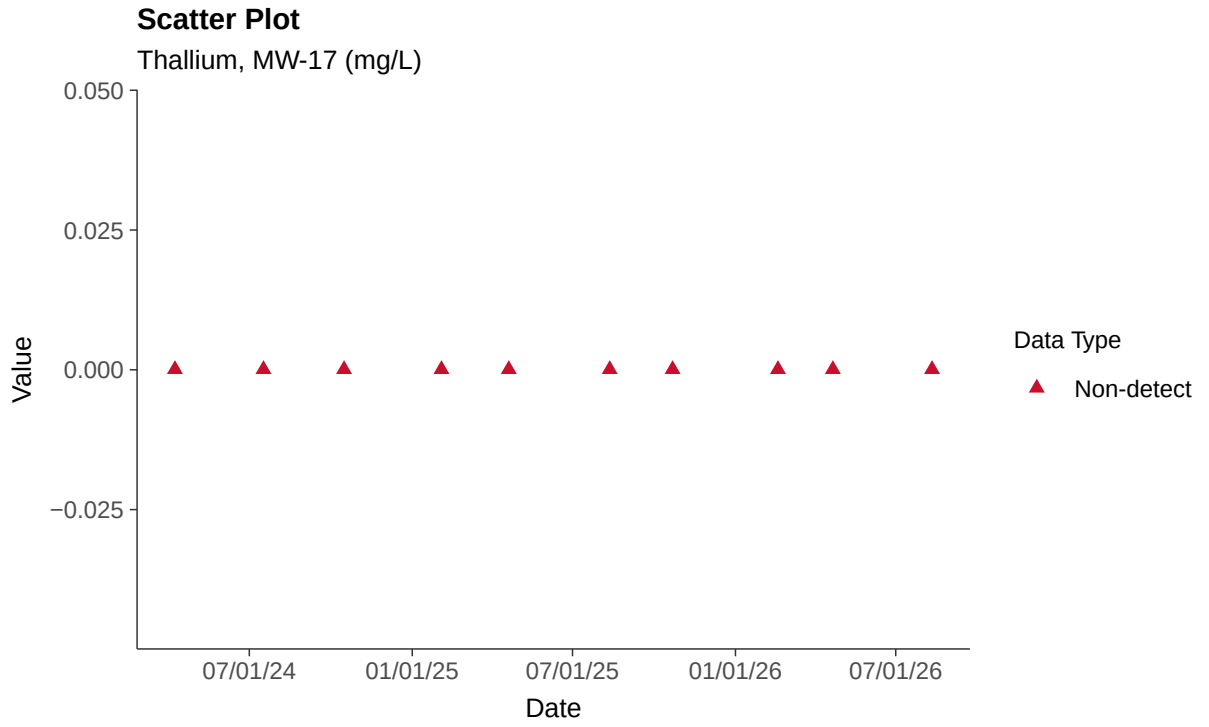
Trend Regression: Piecewise Linear-Linear-Linear

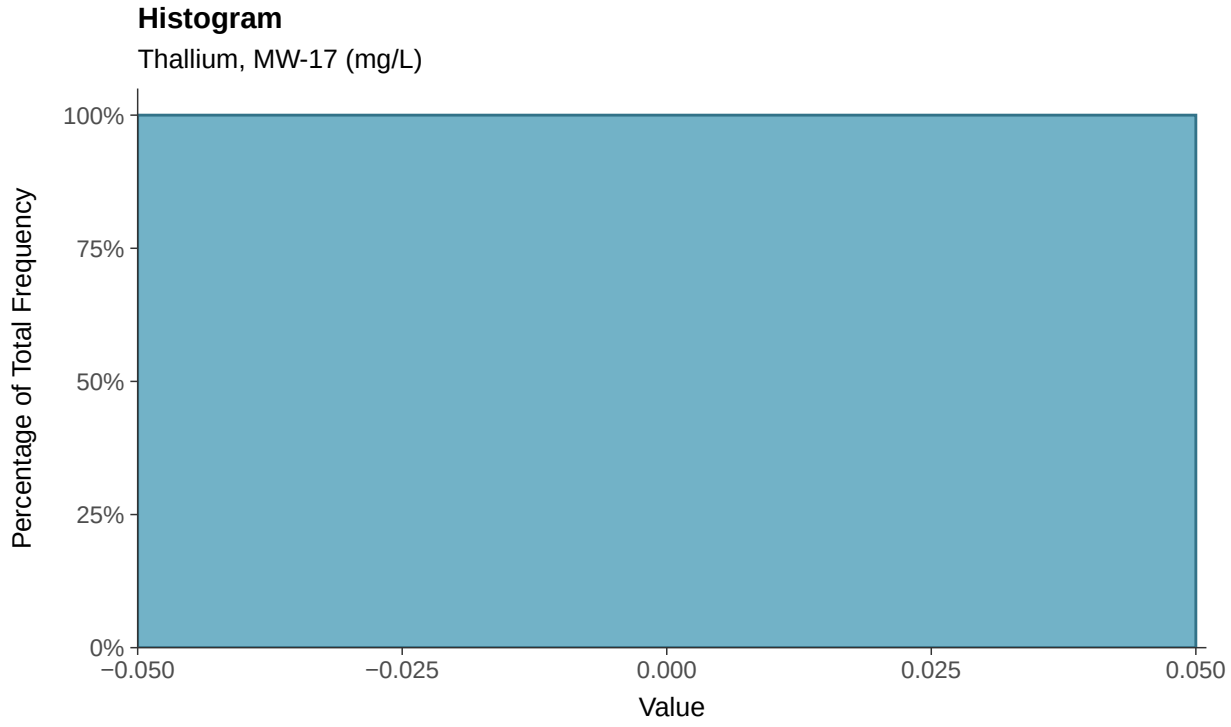
Selenium, MW-17 (mg/L)



Appendix IV: Thallium, MW-17

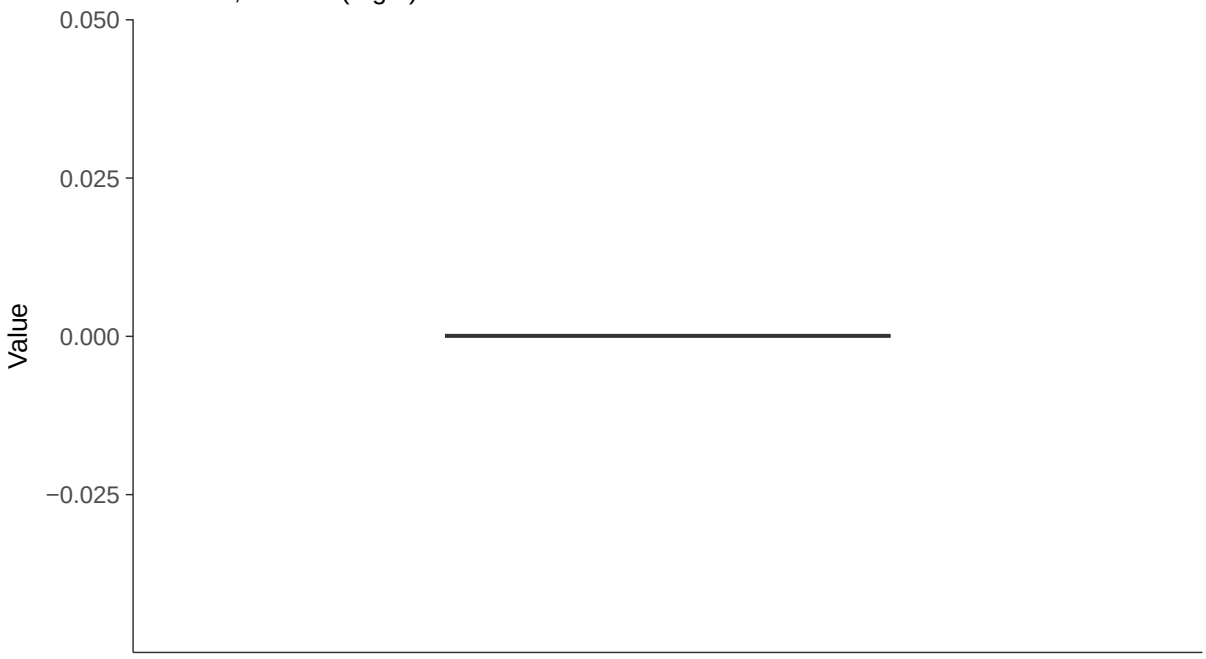
ID: 27_1_4_125





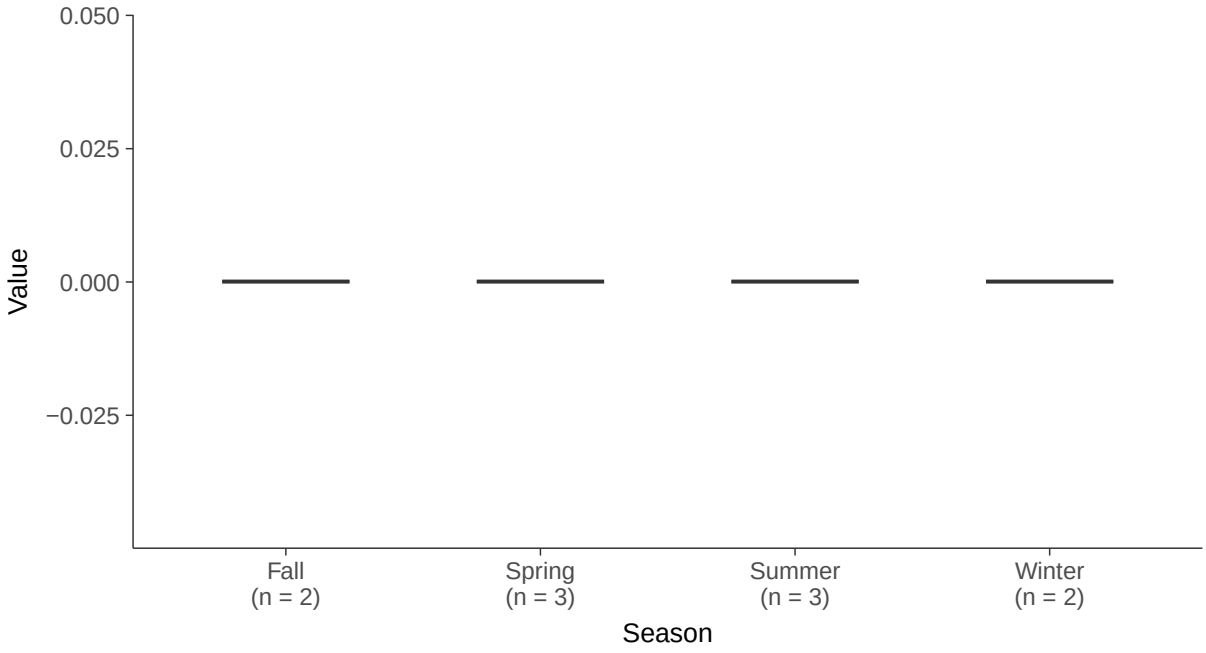
Boxplot

Thallium, MW-17 (mg/L)



Boxplot by Season

Thallium, MW-17 (mg/L)

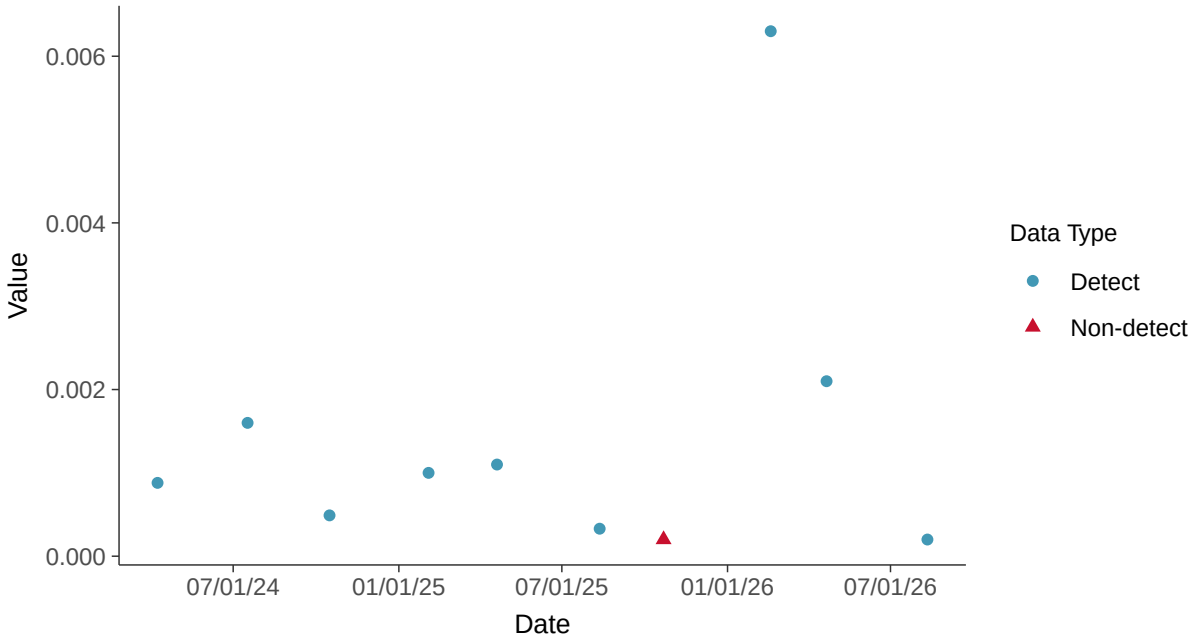


Part 115: Copper, MW-17

ID: 27_1_5_111

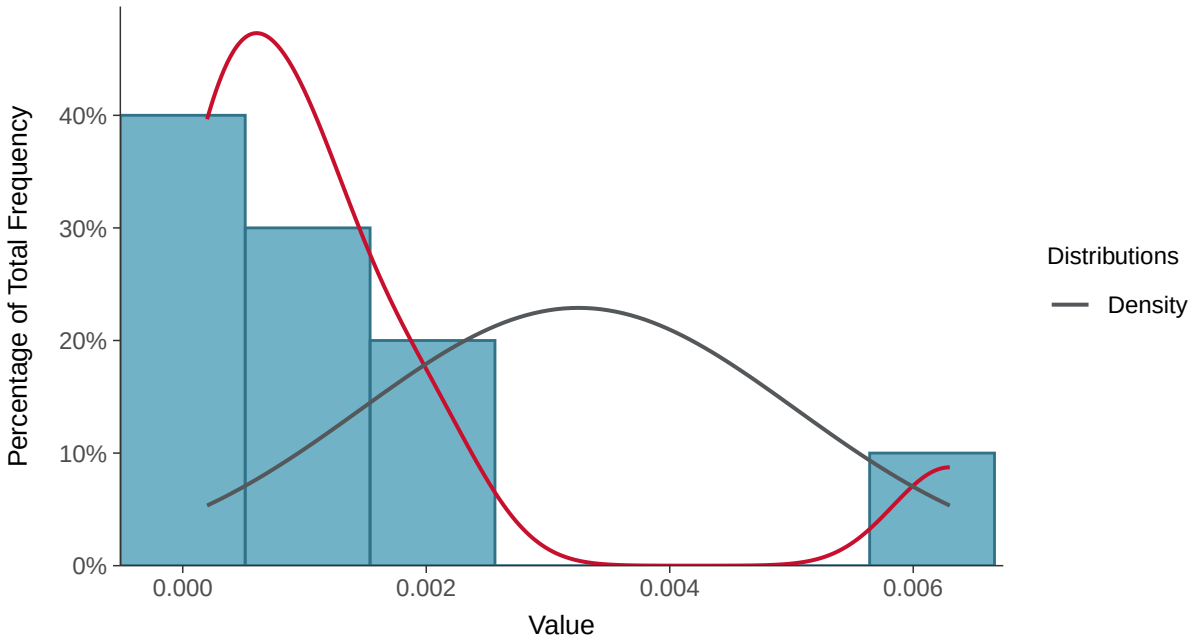
Scatter Plot

Copper, MW-17 (mg/L)



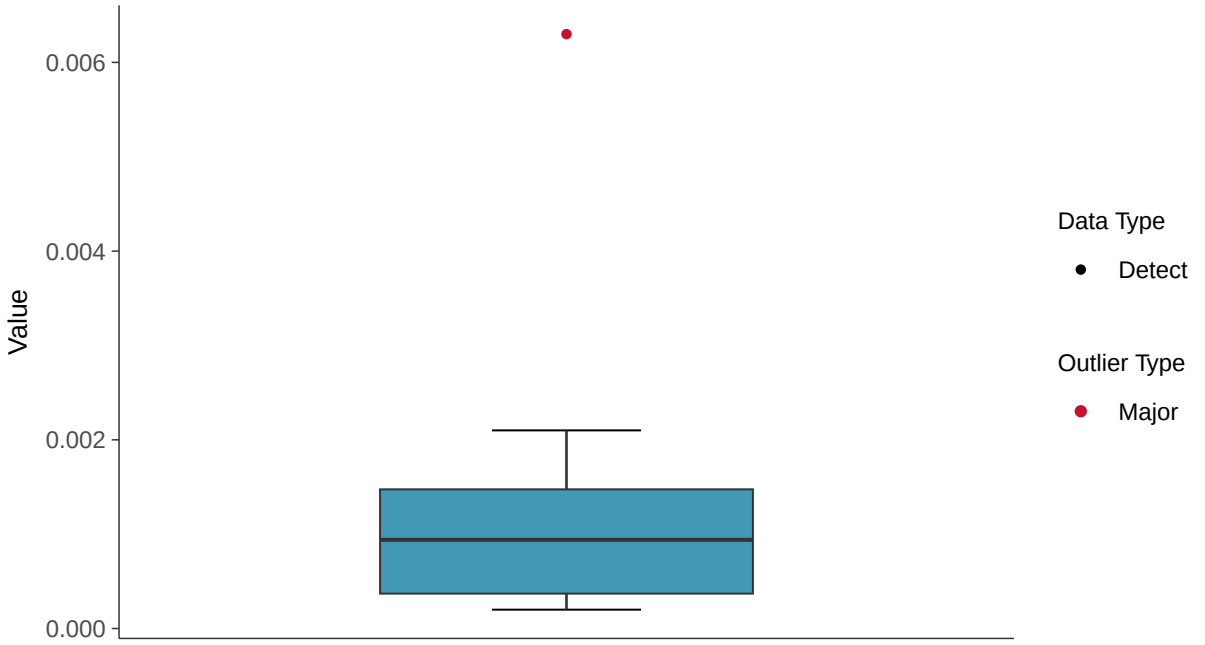
Histogram

Copper, MW-17 (mg/L)



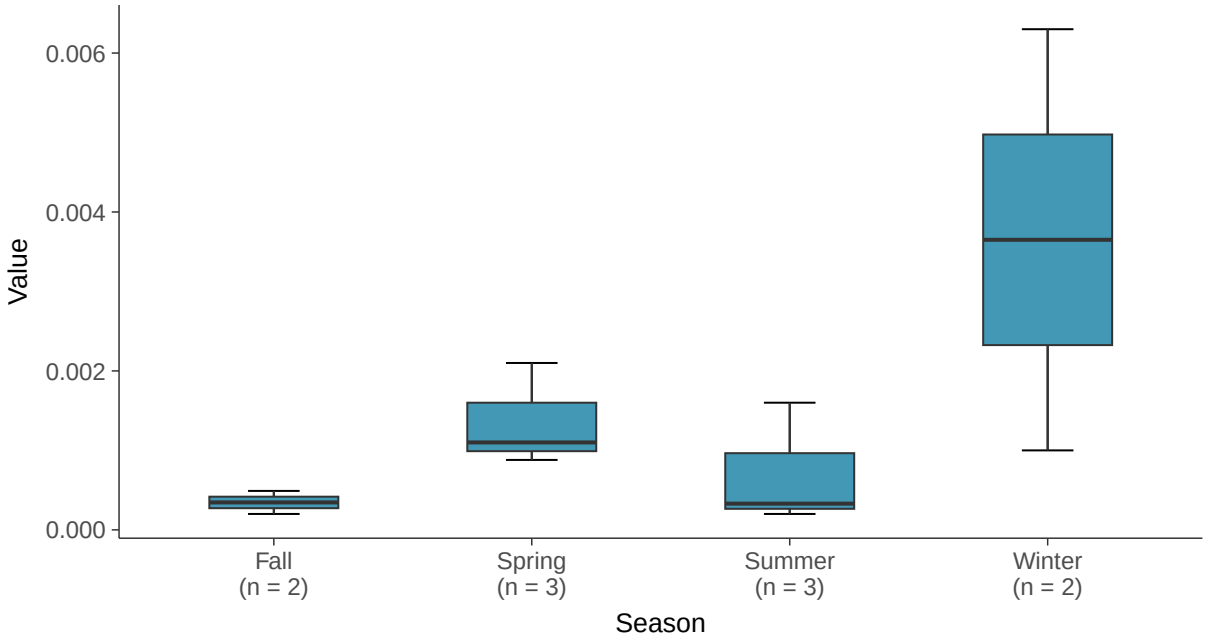
Boxplot

Copper, MW-17 (mg/L)



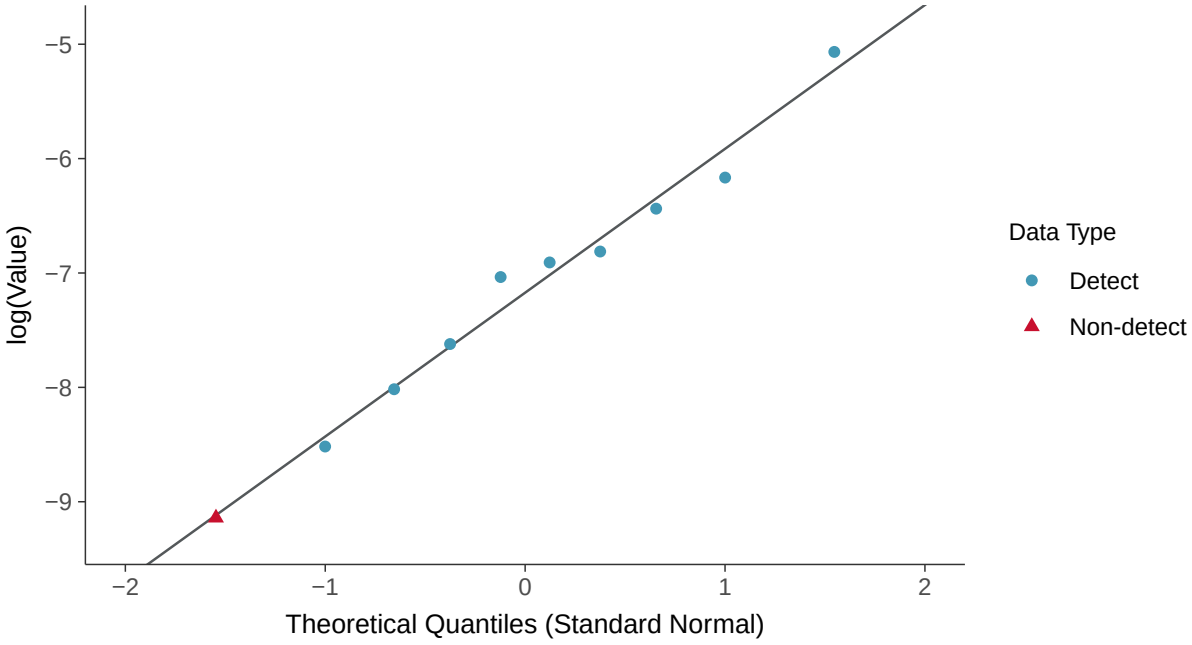
Boxplot by Season

Copper, MW-17 (mg/L)



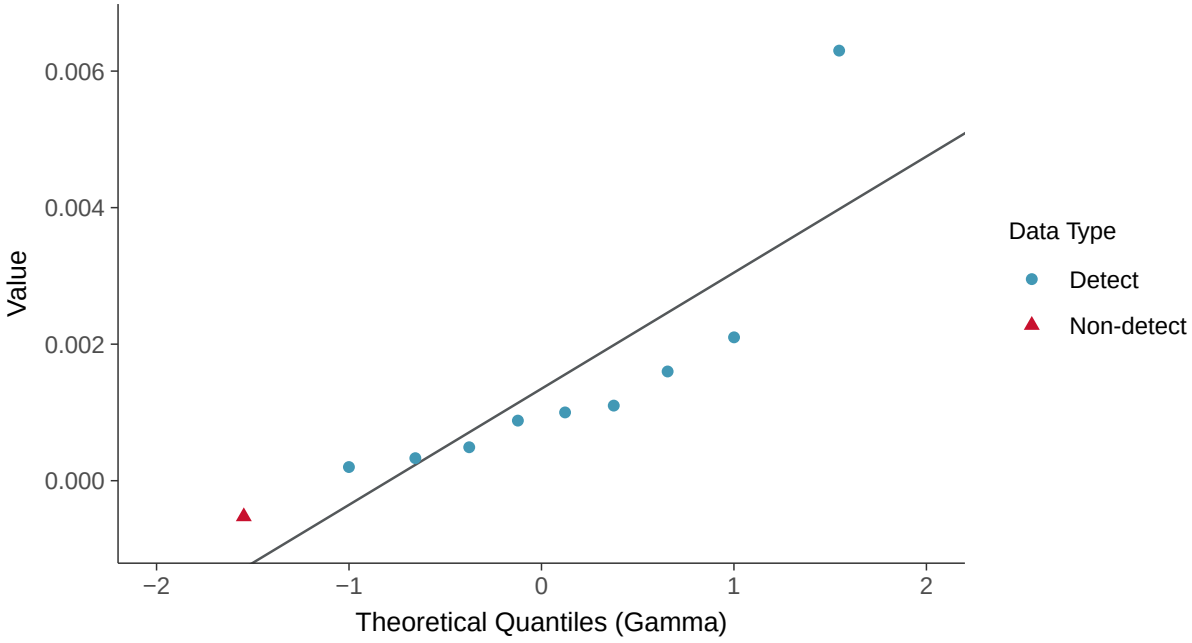
Lognormal Q-Q plot using ROS Imputed Estimates

Copper, MW-17 (mg/L)



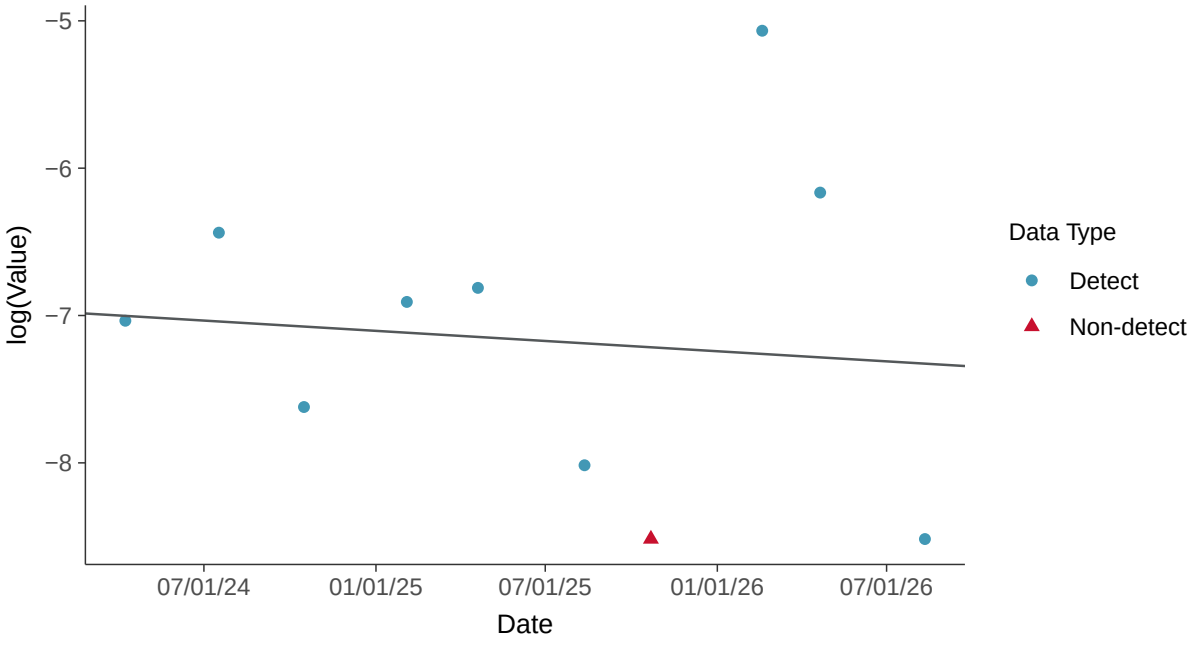
Gamma Q-Q plot using ROS Imputed Estimates

Copper, MW-17 (mg/L)



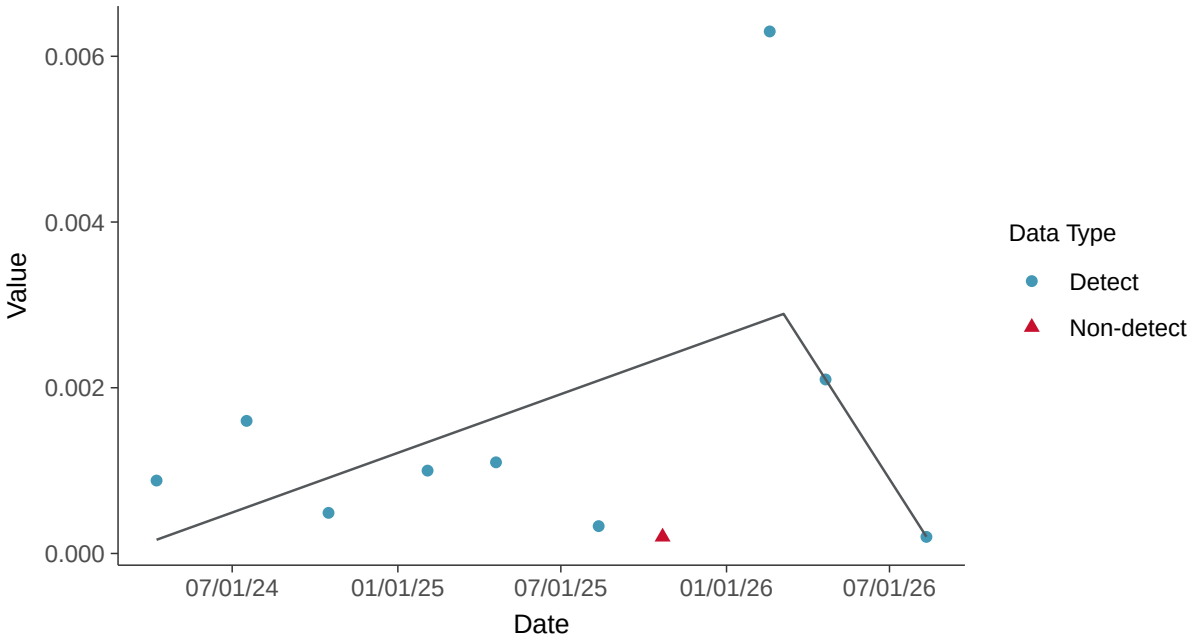
Trend Regression: Lognormal MLE

Copper, MW-17 (mg/L)



Trend Regression: Piecewise Linear-Linear

Copper, MW-17 (mg/L)

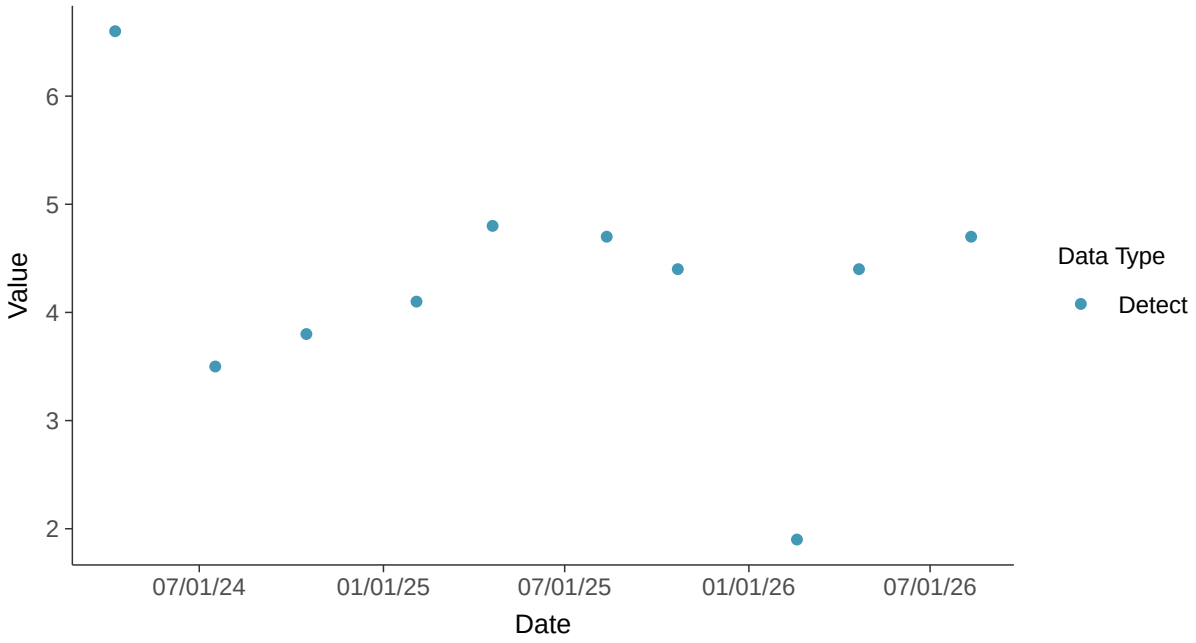


Part 115: Iron, MW-17

ID: 27_1_5_114

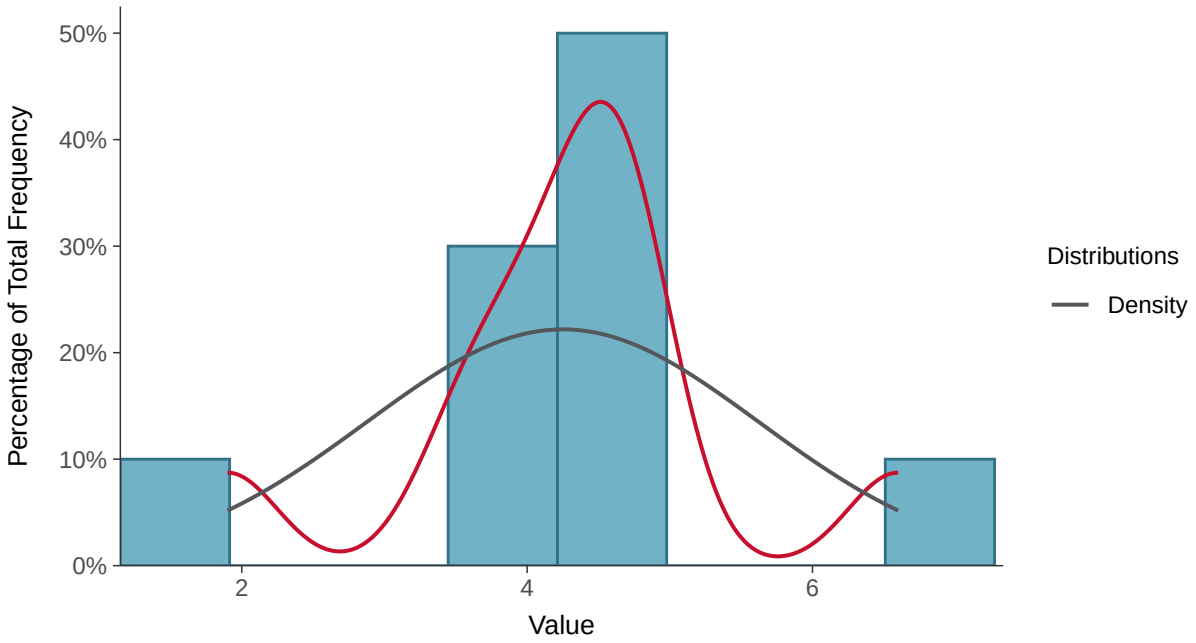
Scatter Plot

Iron, MW-17 (mg/L)



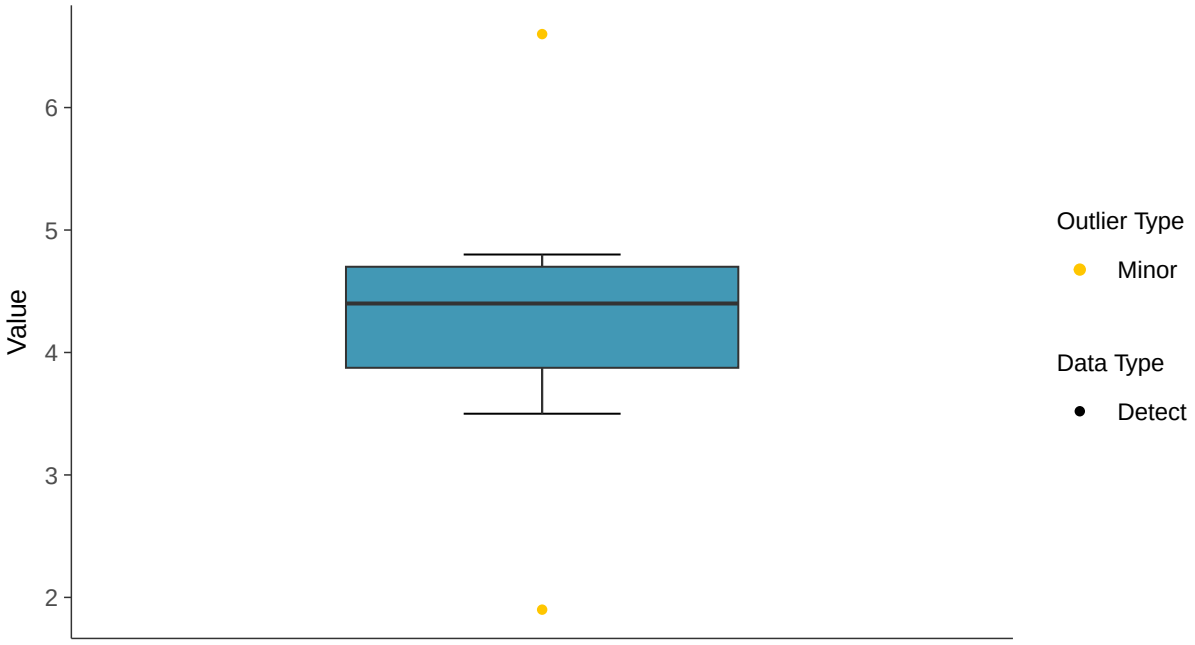
Histogram

Iron, MW-17 (mg/L)



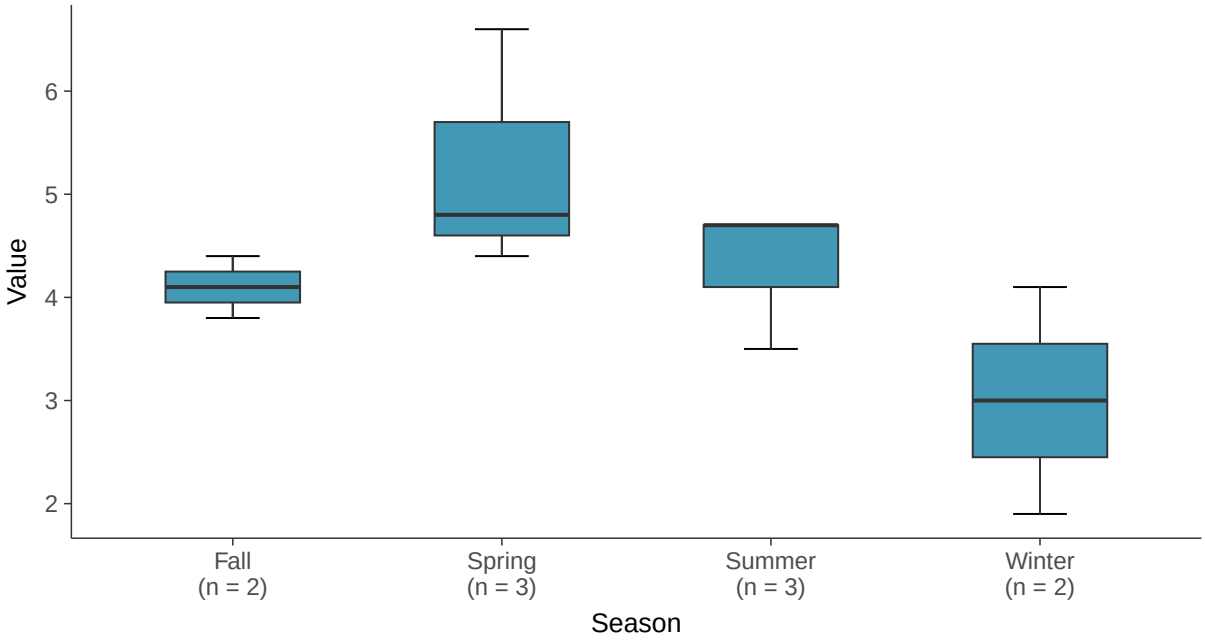
Boxplot

Iron, MW-17 (mg/L)



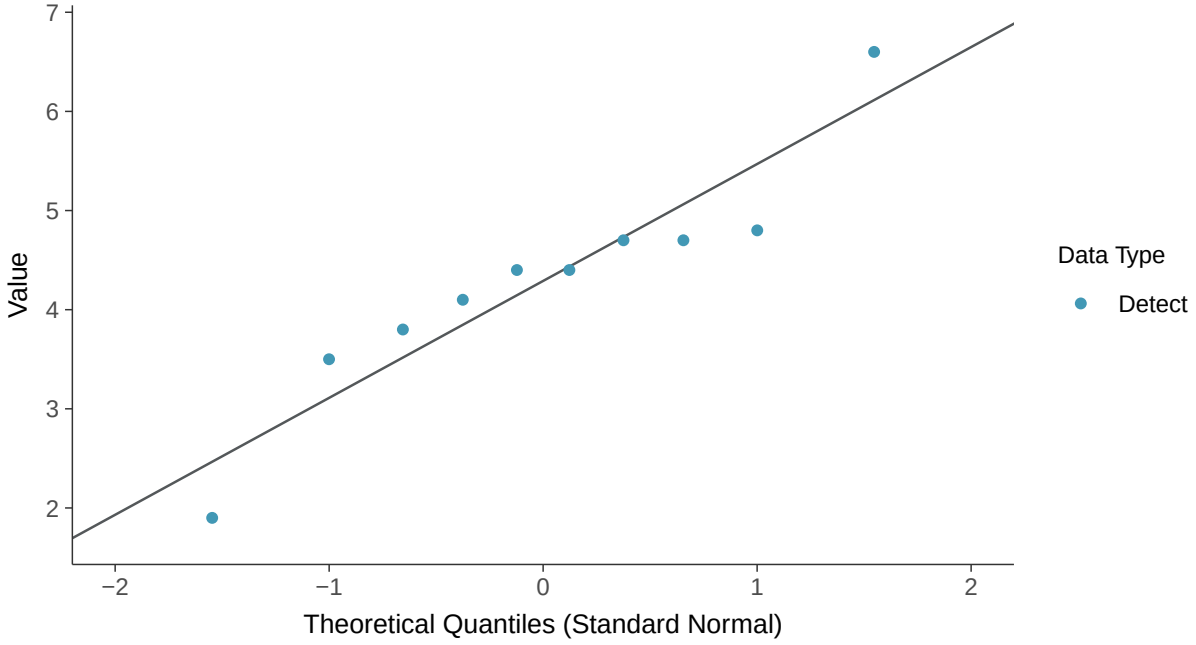
Boxplot by Season

Iron, MW-17 (mg/L)



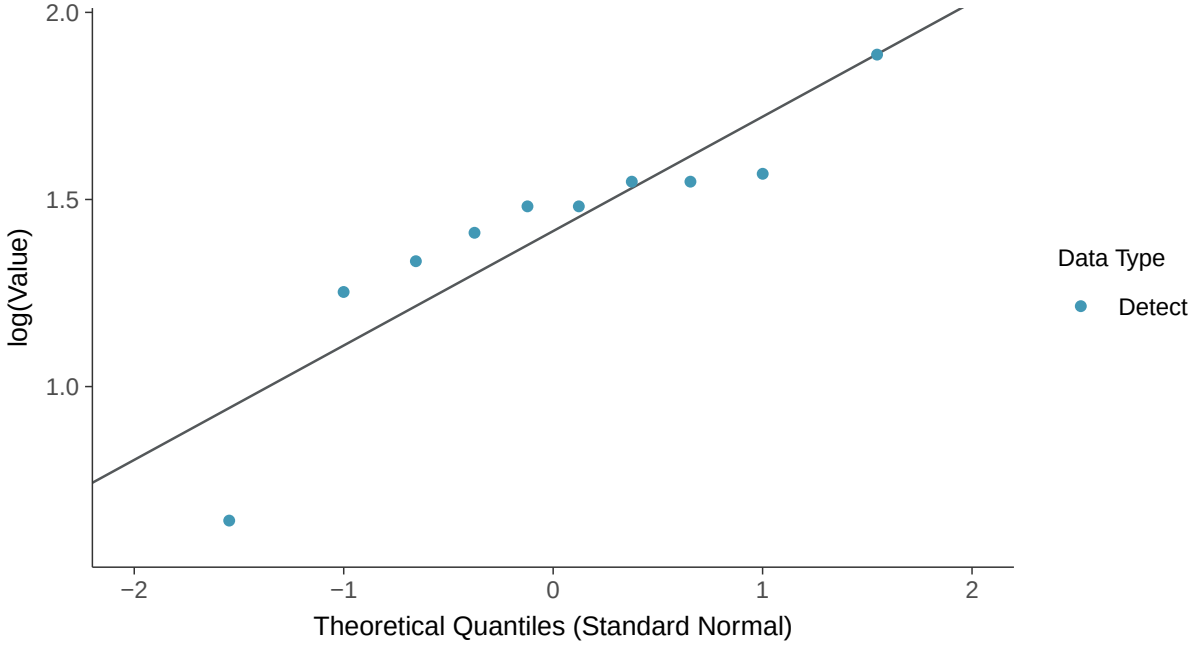
Normal Q-Q plot

Iron, MW-17 (mg/L)



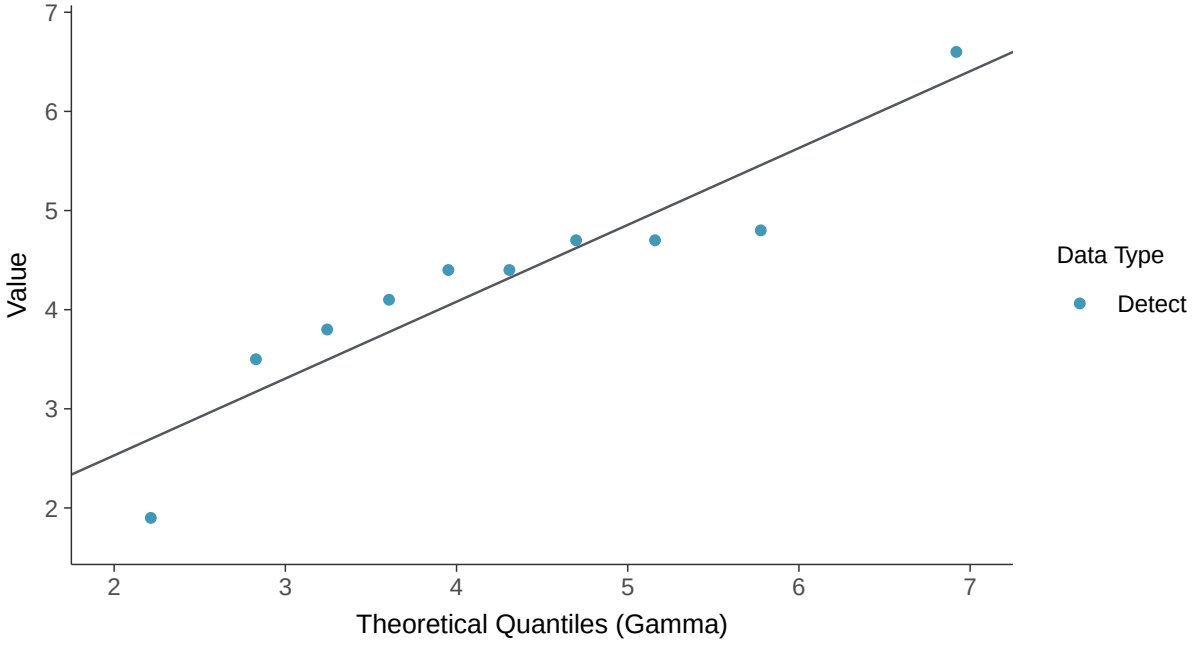
Lognormal Q-Q plot

Iron, MW-17 (mg/L)



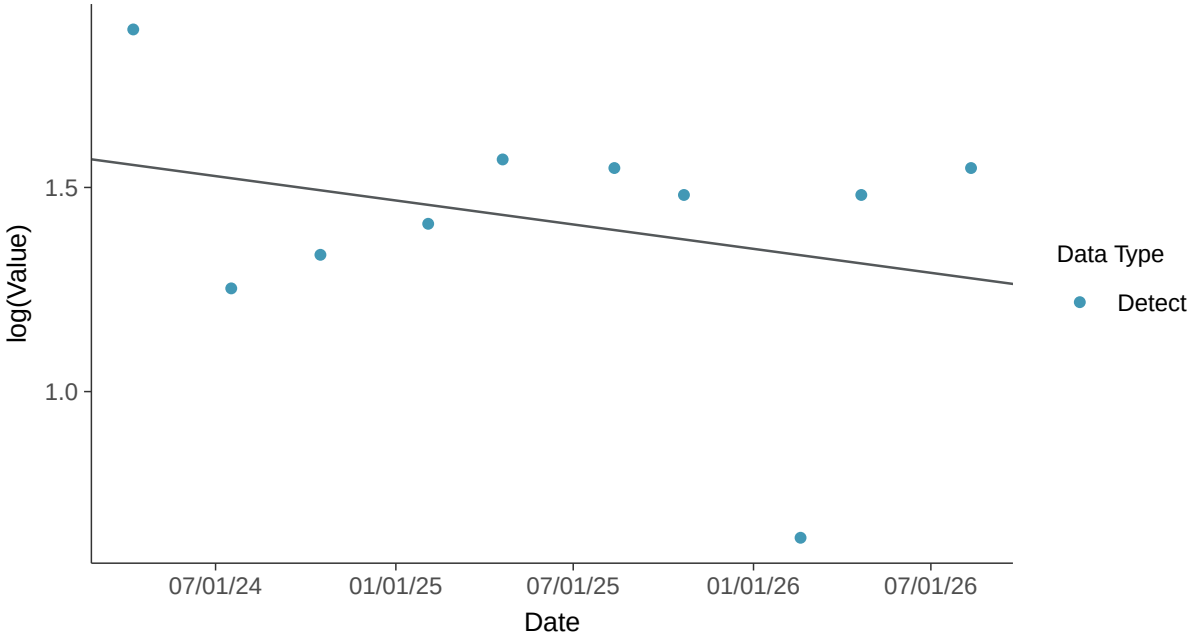
Gamma Q-Q plot

Iron, MW-17 (mg/L)



Trend Regression: Lognormal MLE

Iron, MW-17 (mg/L)

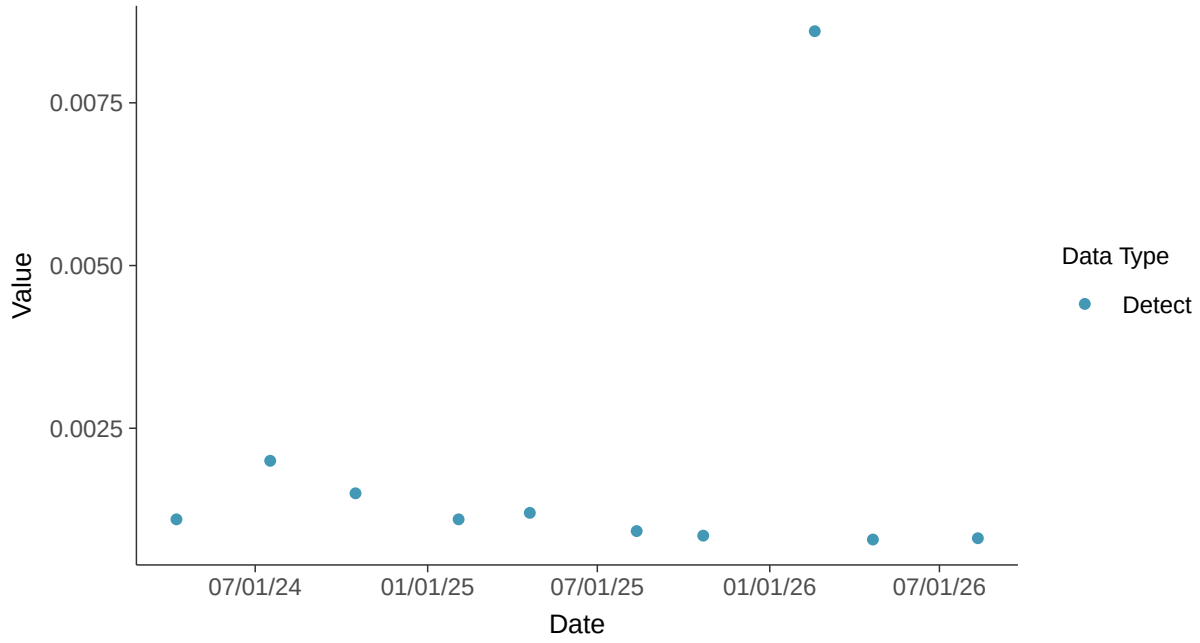


Part 115: Nickel, MW-17

ID: 27_1_5_119

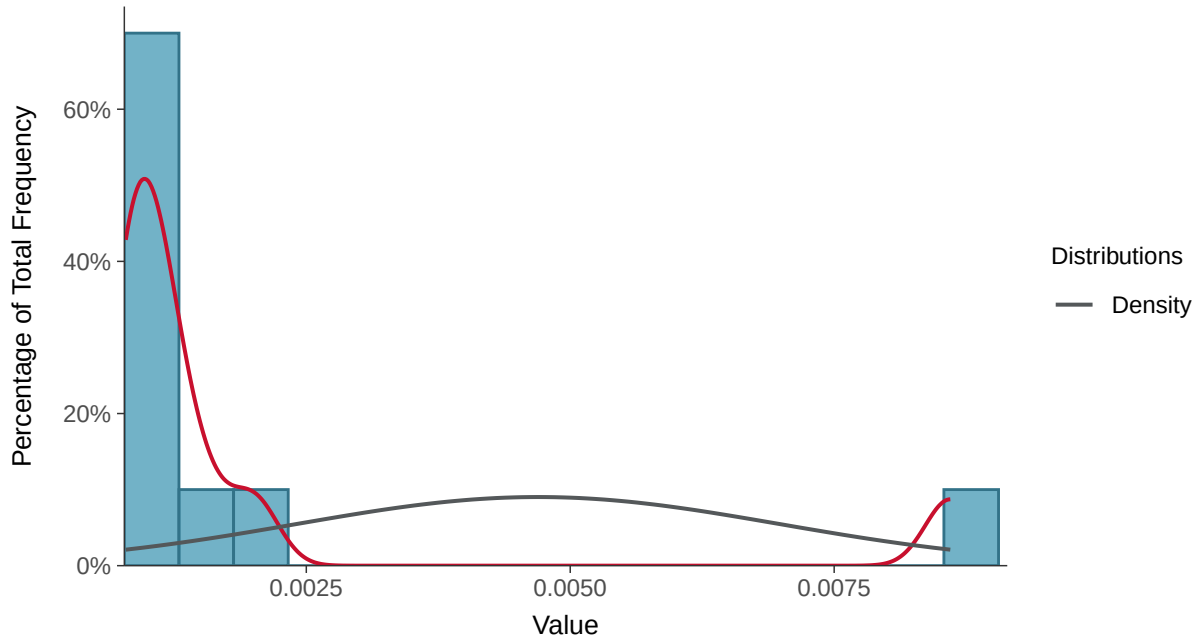
Scatter Plot

Nickel, MW-17 (mg/L)



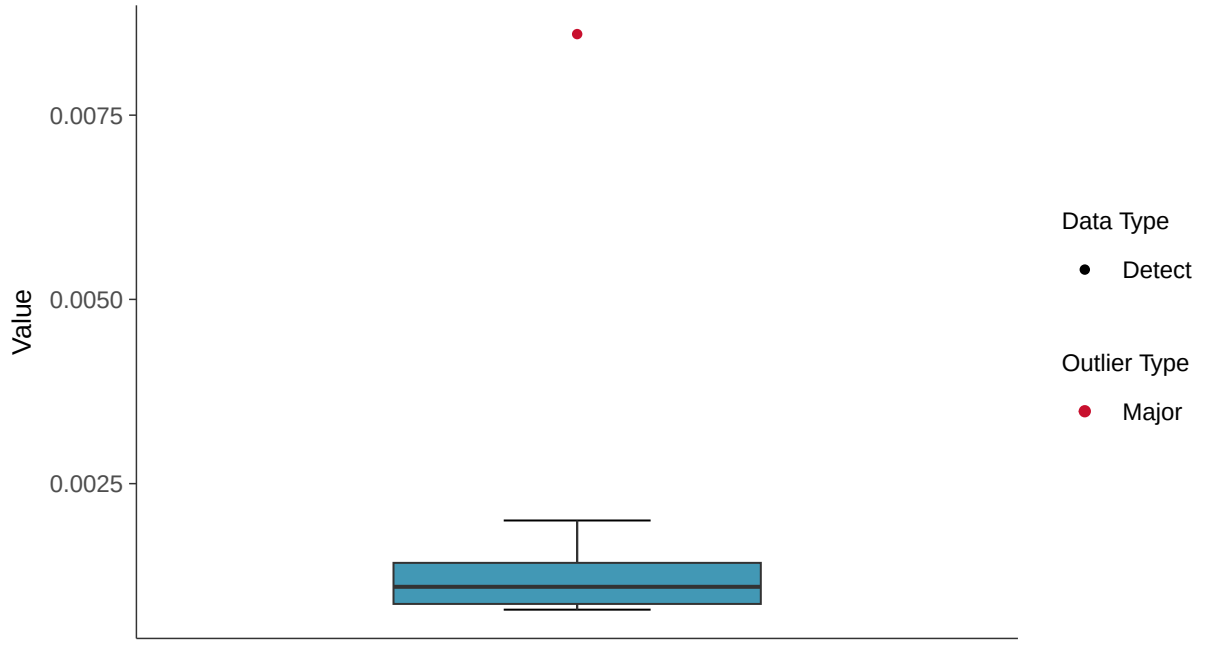
Histogram

Nickel, MW-17 (mg/L)



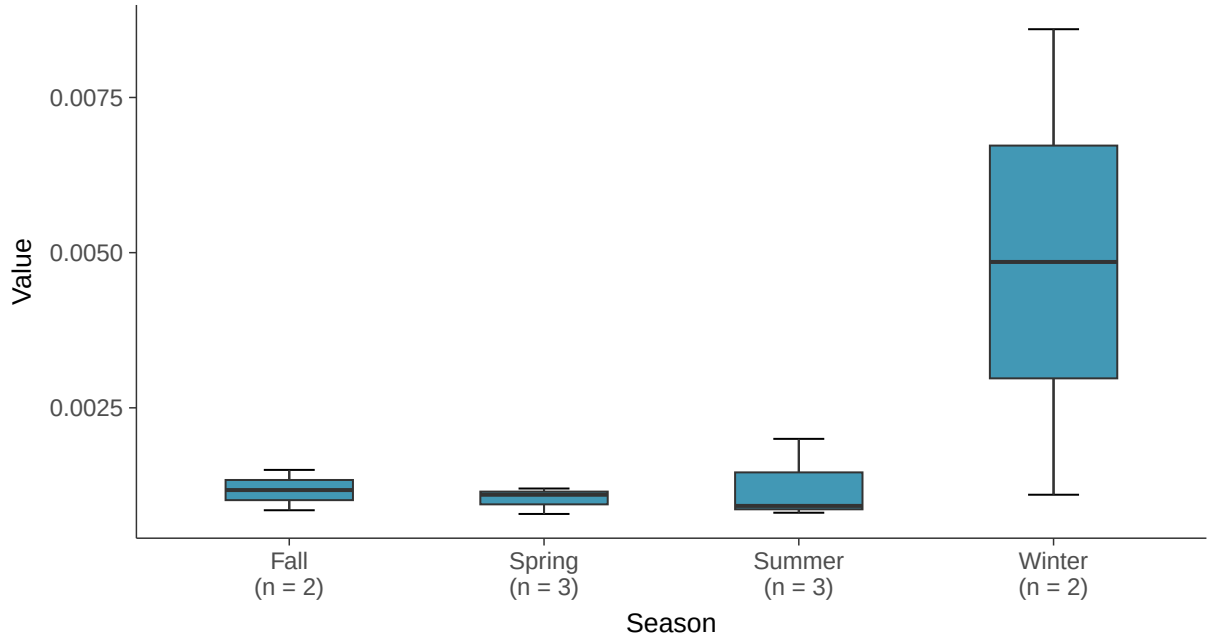
Boxplot

Nickel, MW-17 (mg/L)



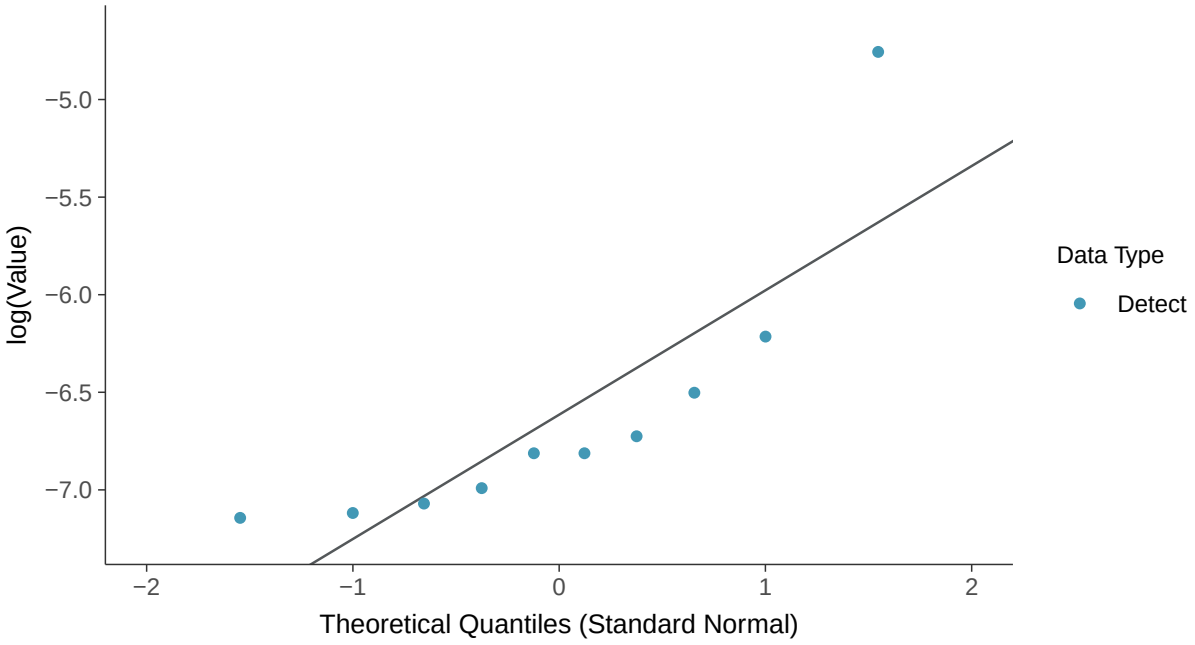
Boxplot by Season

Nickel, MW-17 (mg/L)



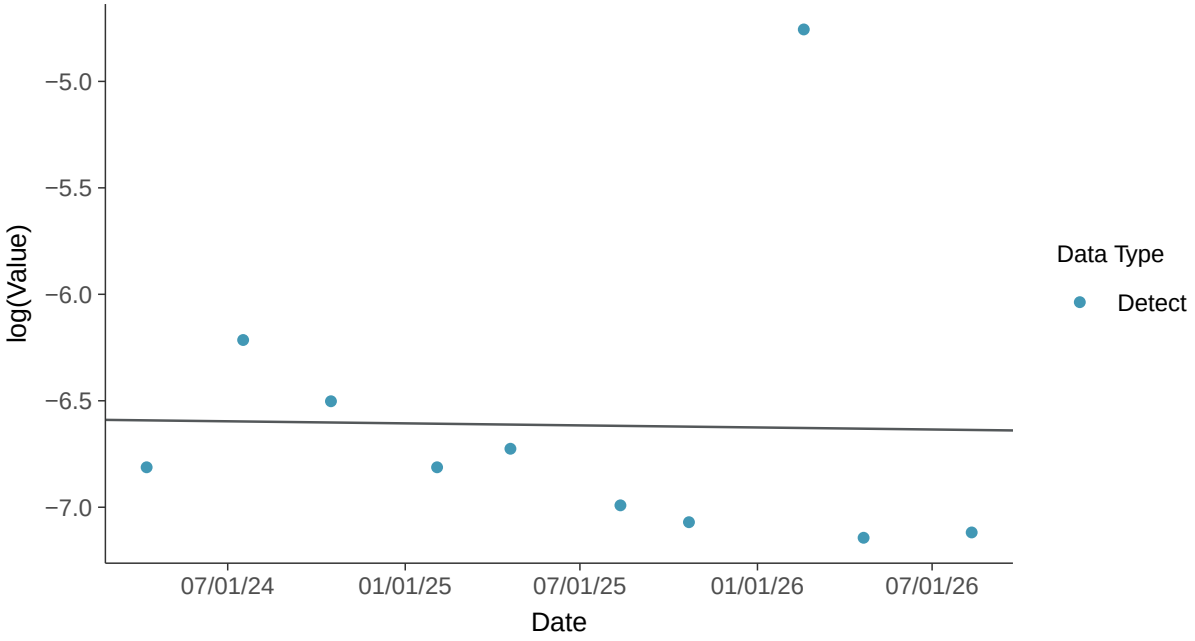
Lognormal Q-Q plot

Nickel, MW-17 (mg/L)



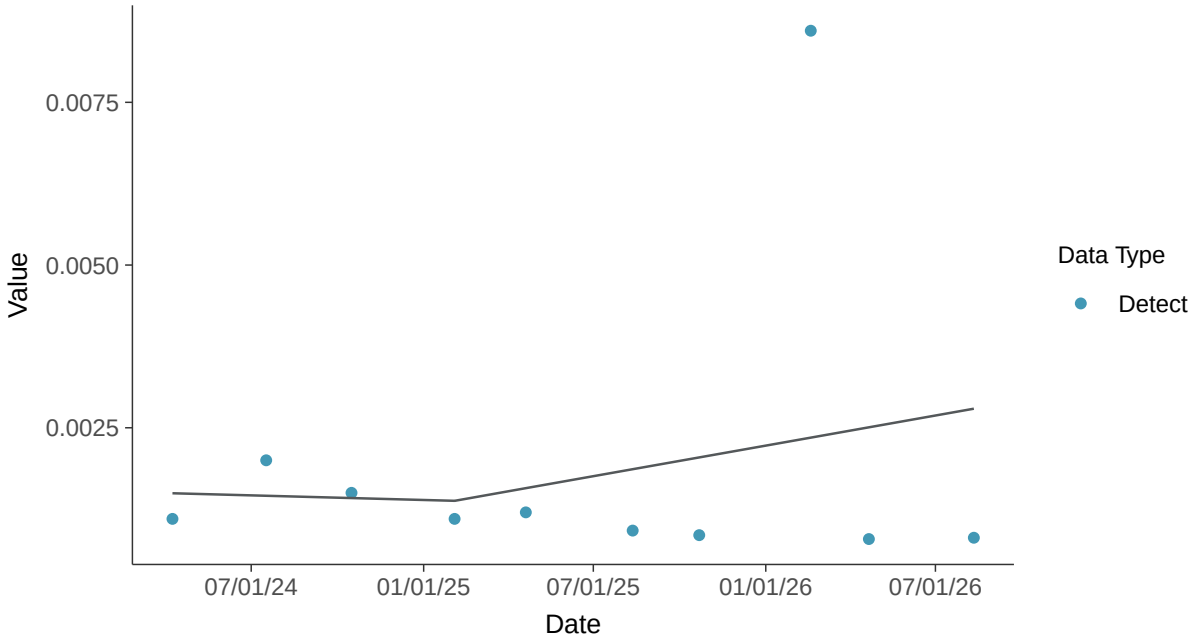
Trend Regression: Lognormal MLE

Nickel, MW-17 (mg/L)



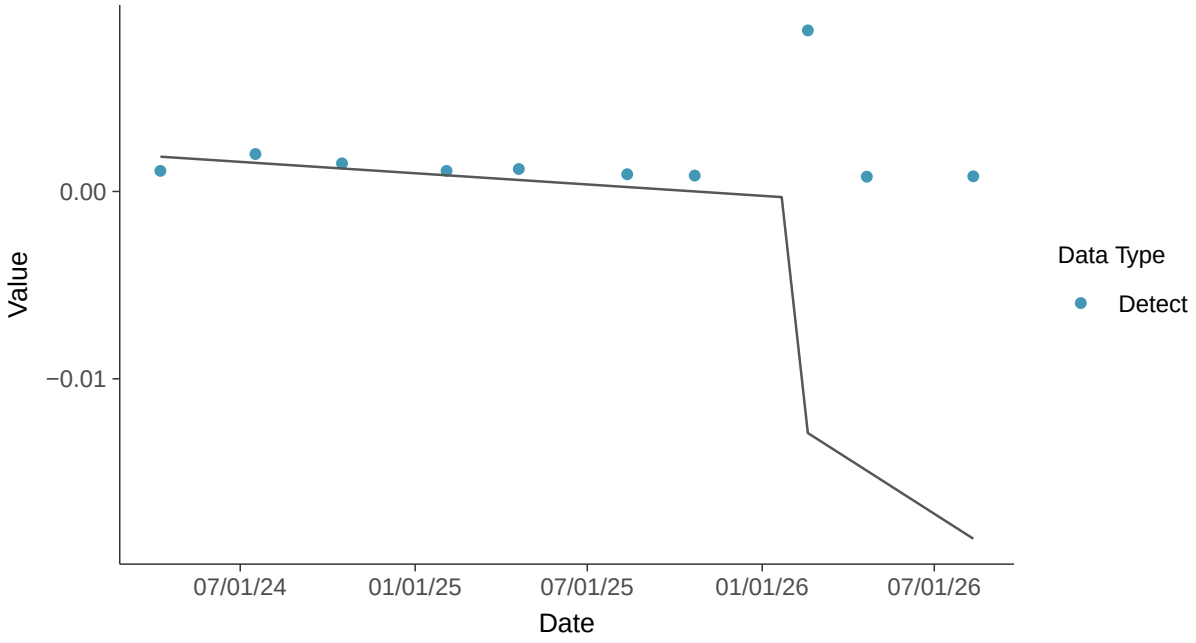
Trend Regression: Piecewise Linear-Linear

Nickel, MW-17 (mg/L)



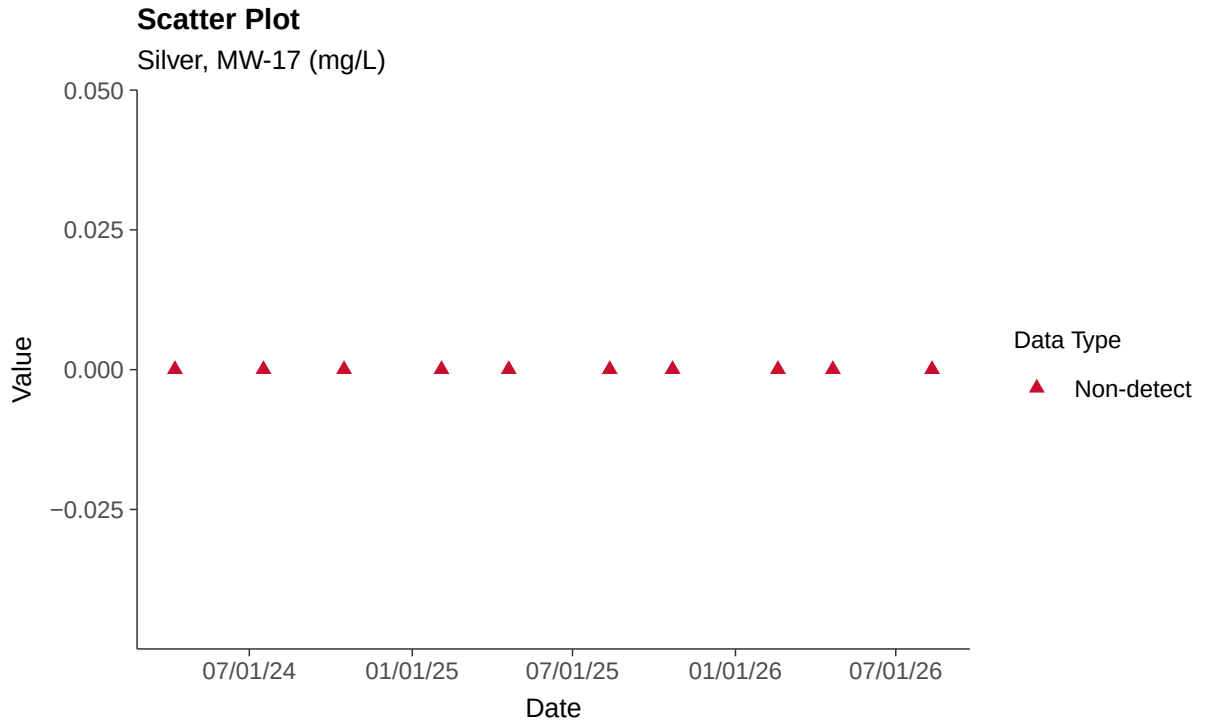
Trend Regression: Piecewise Linear-Linear-Linear

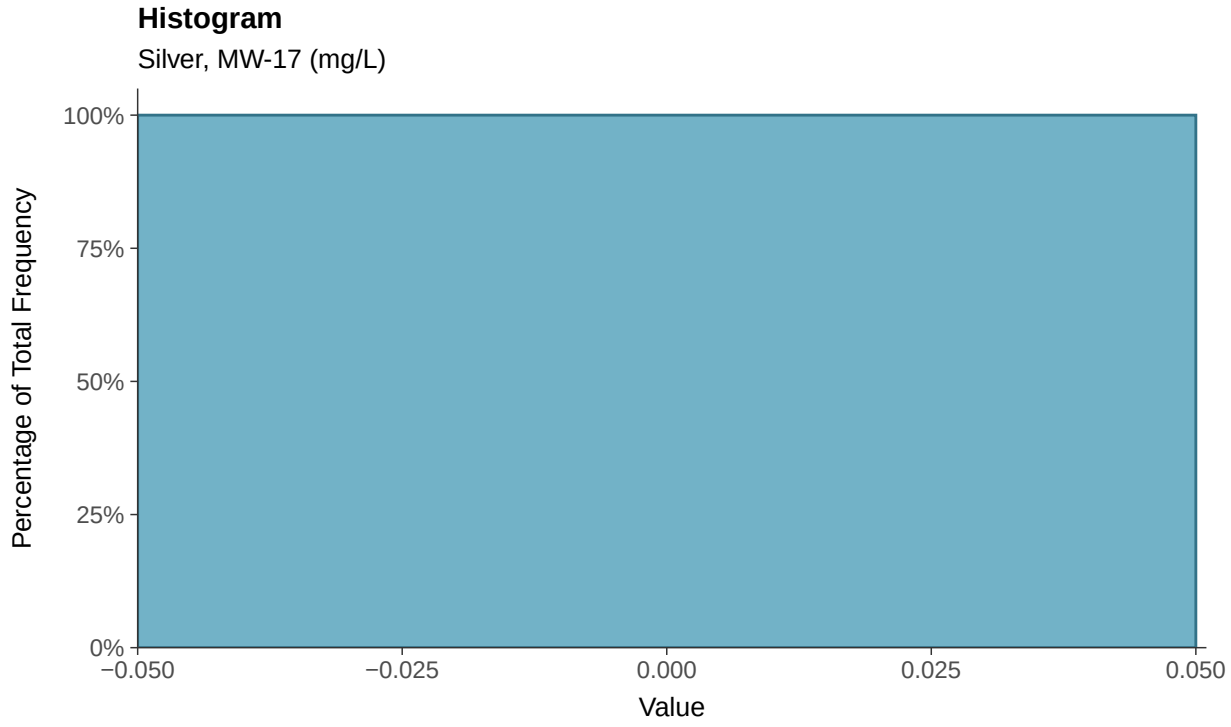
Nickel, MW-17 (mg/L)



Part 115: Silver, MW-17

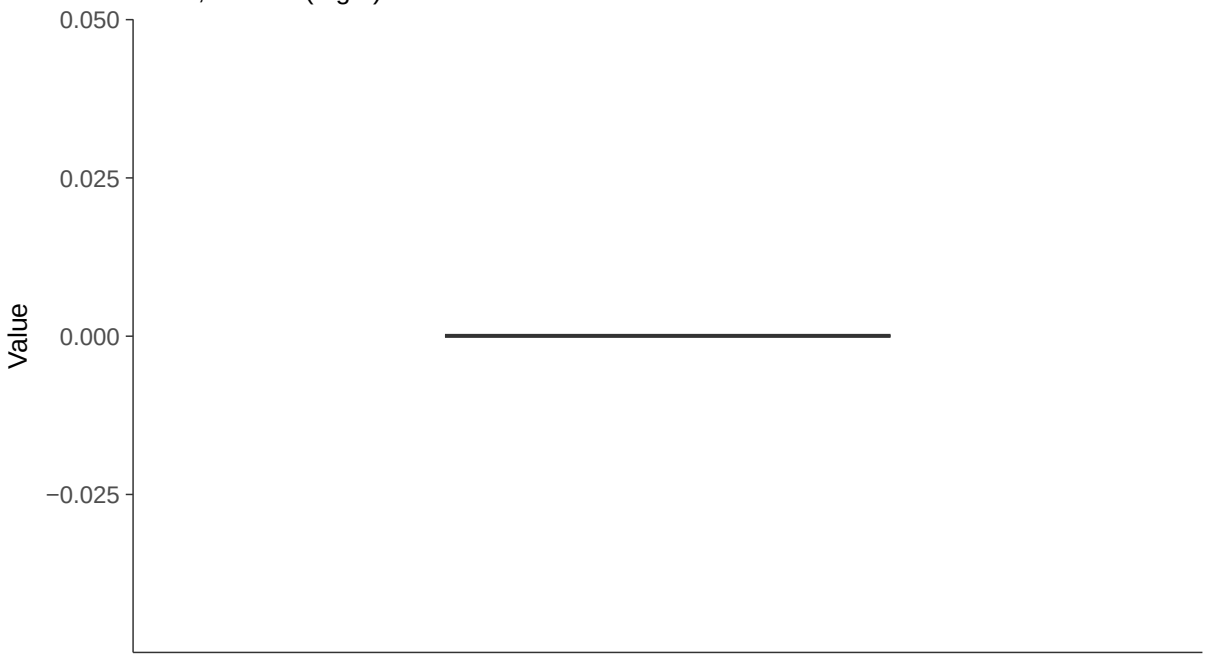
ID: 27_1_5_123





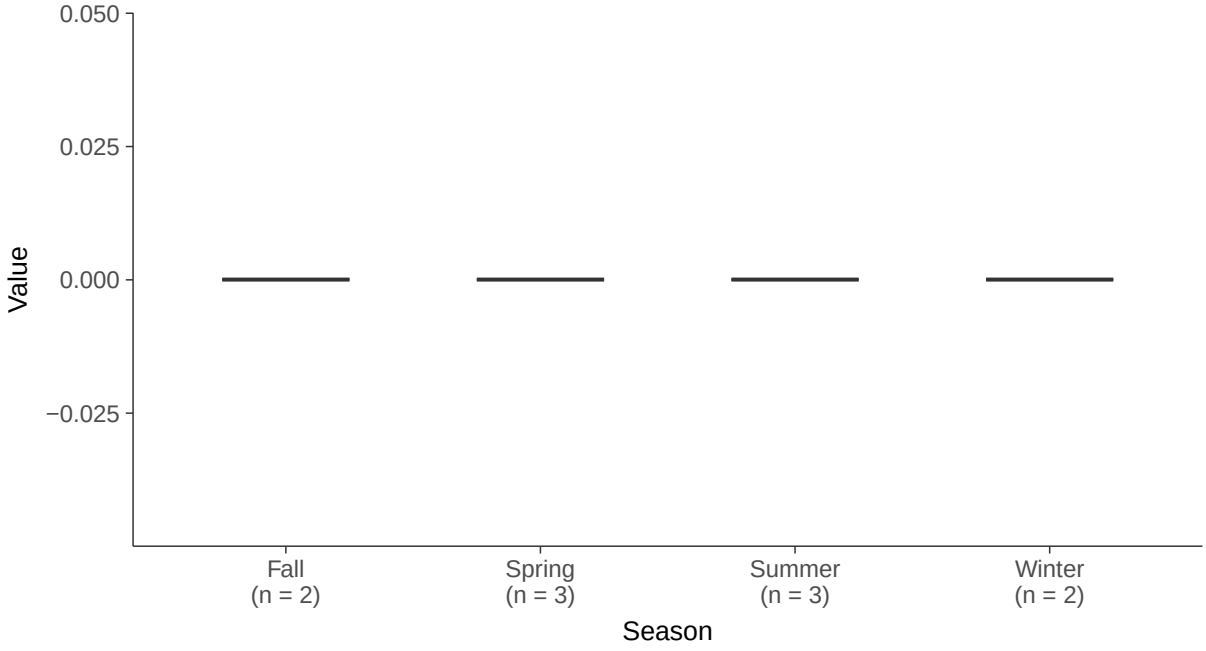
Boxplot

Silver, MW-17 (mg/L)



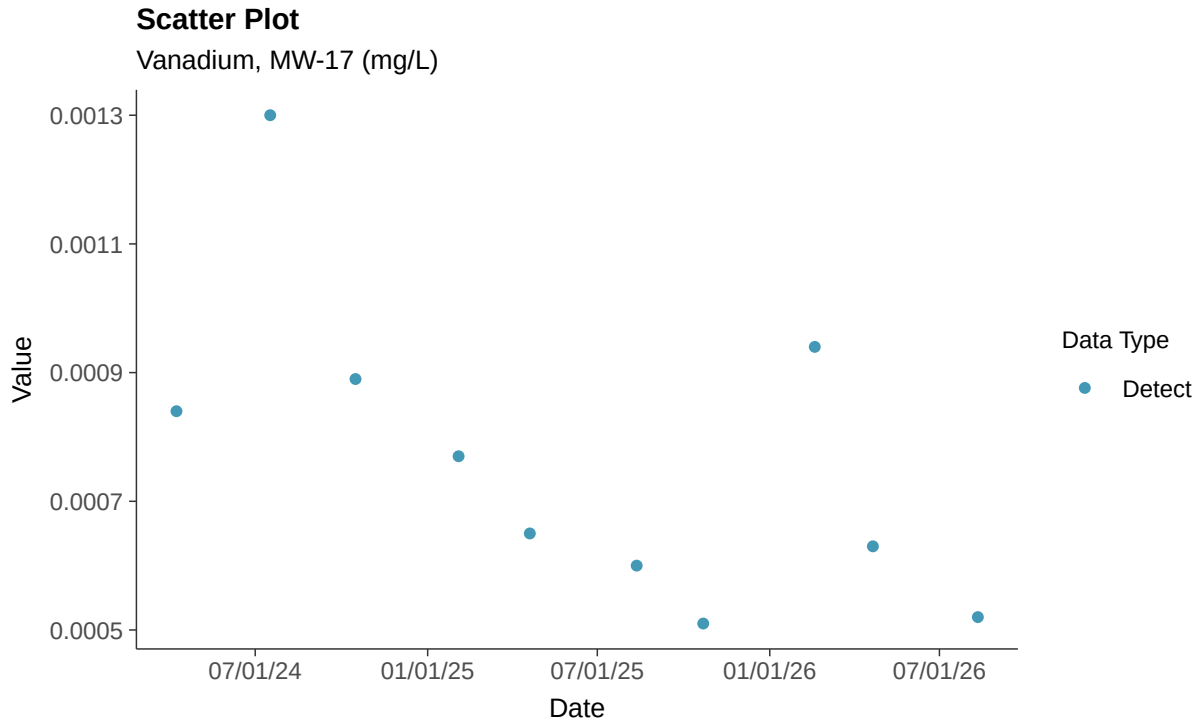
Boxplot by Season

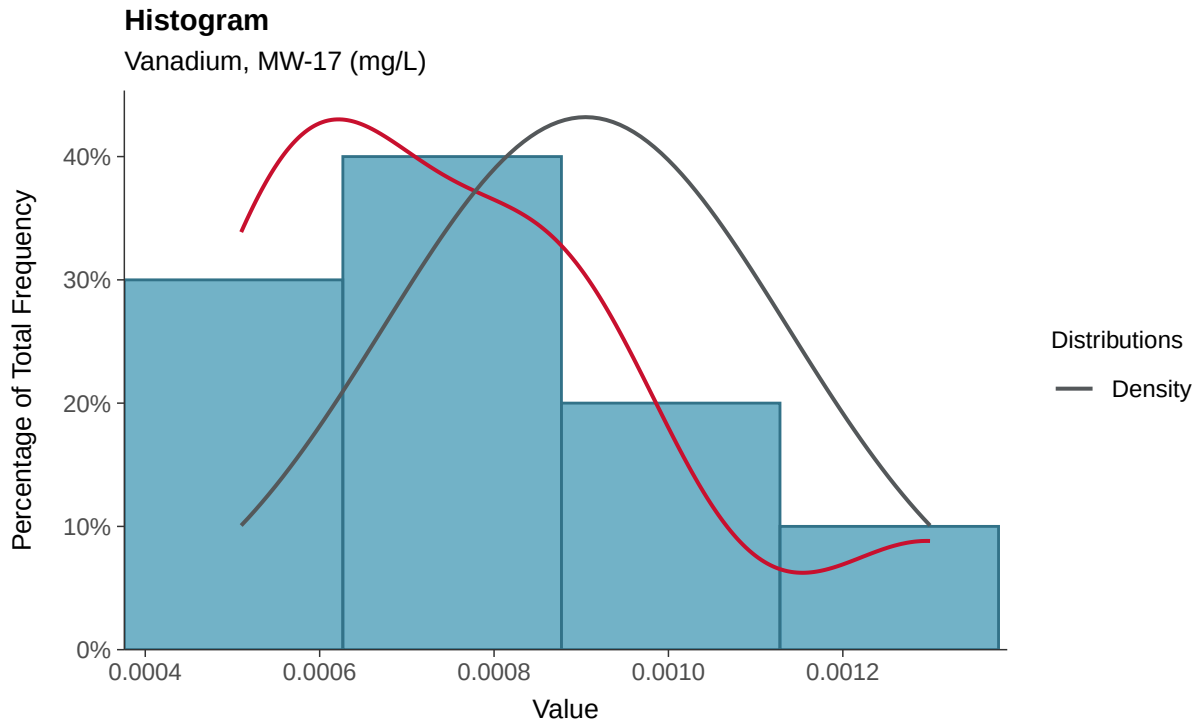
Silver, MW-17 (mg/L)



Part 115: Vanadium, MW-17

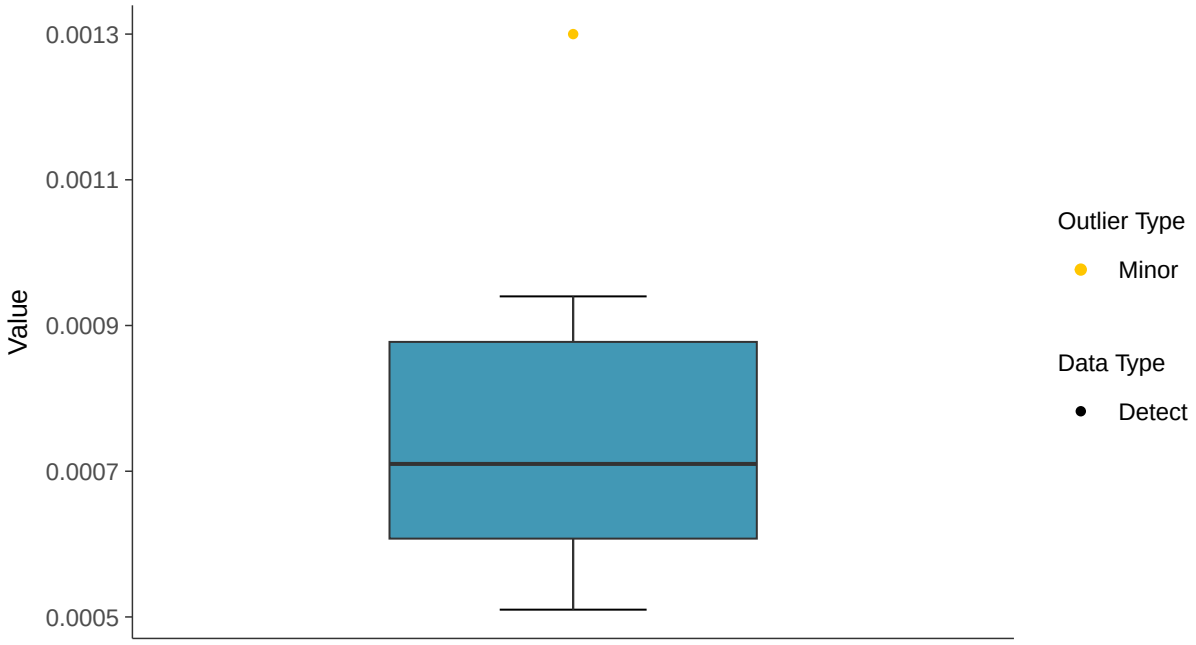
ID: 27_1_5_128





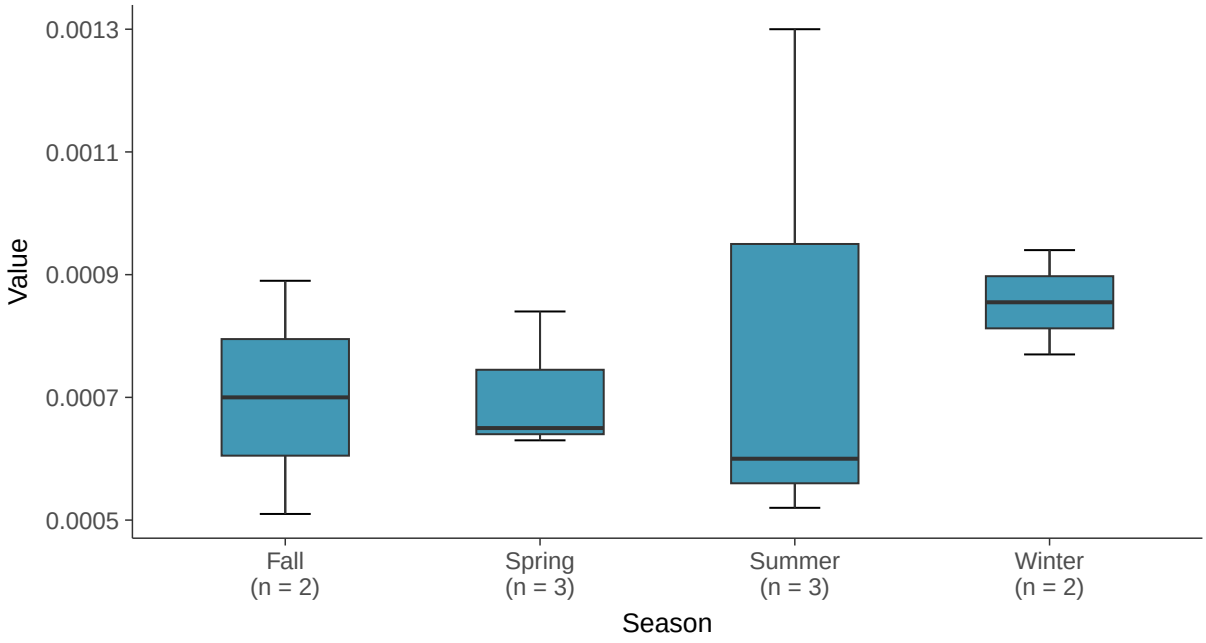
Boxplot

Vanadium, MW-17 (mg/L)



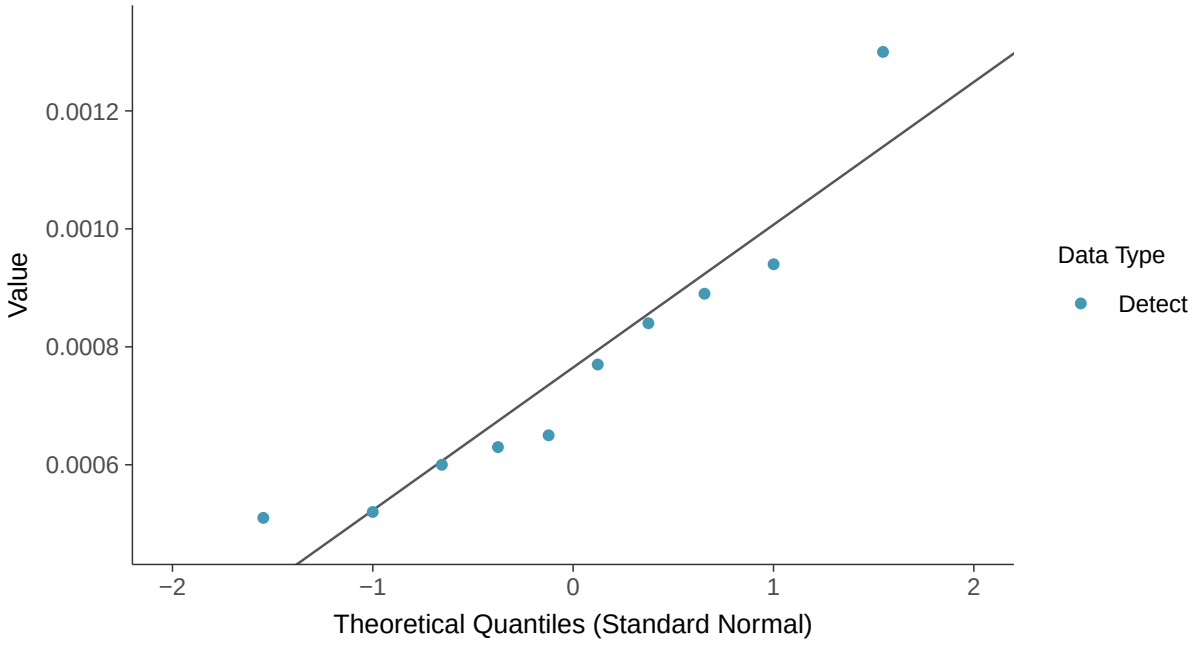
Boxplot by Season

Vanadium, MW-17 (mg/L)



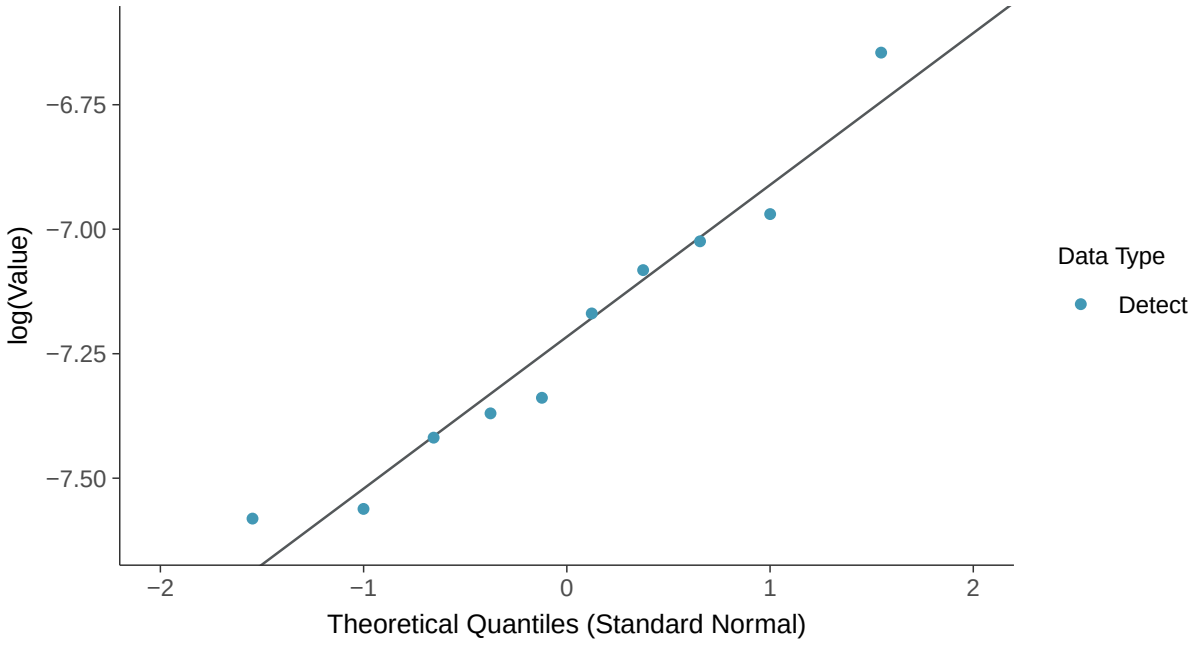
Normal Q-Q plot

Vanadium, MW-17 (mg/L)



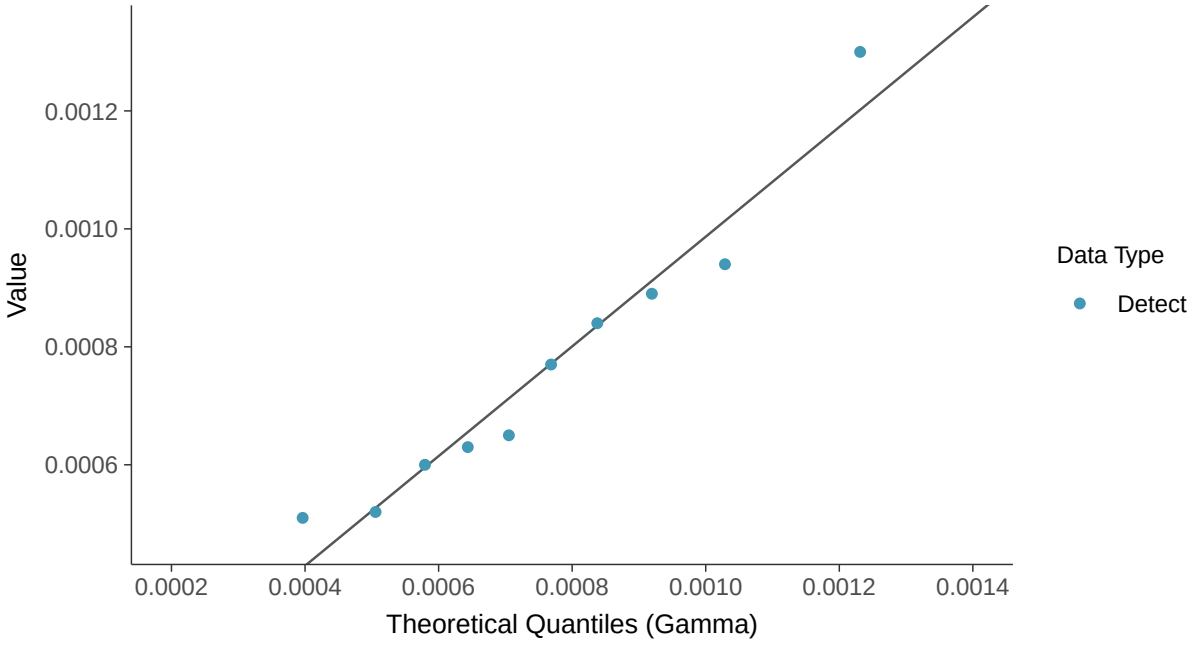
Lognormal Q-Q plot

Vanadium, MW-17 (mg/L)



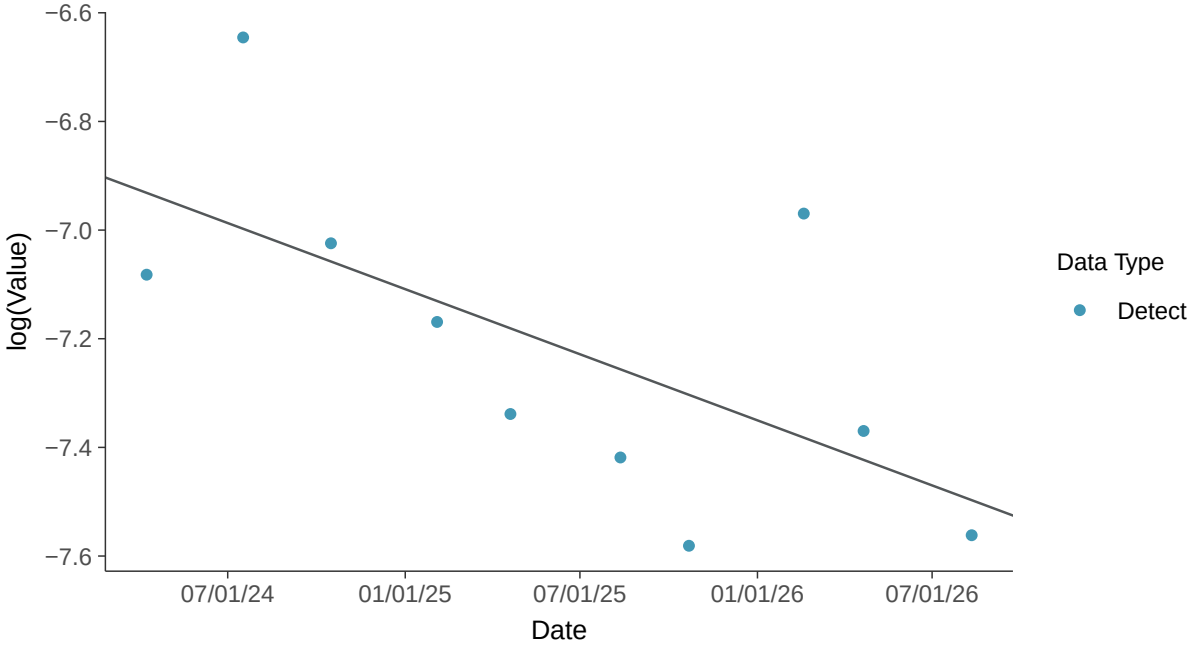
Gamma Q-Q plot

Vanadium, MW-17 (mg/L)



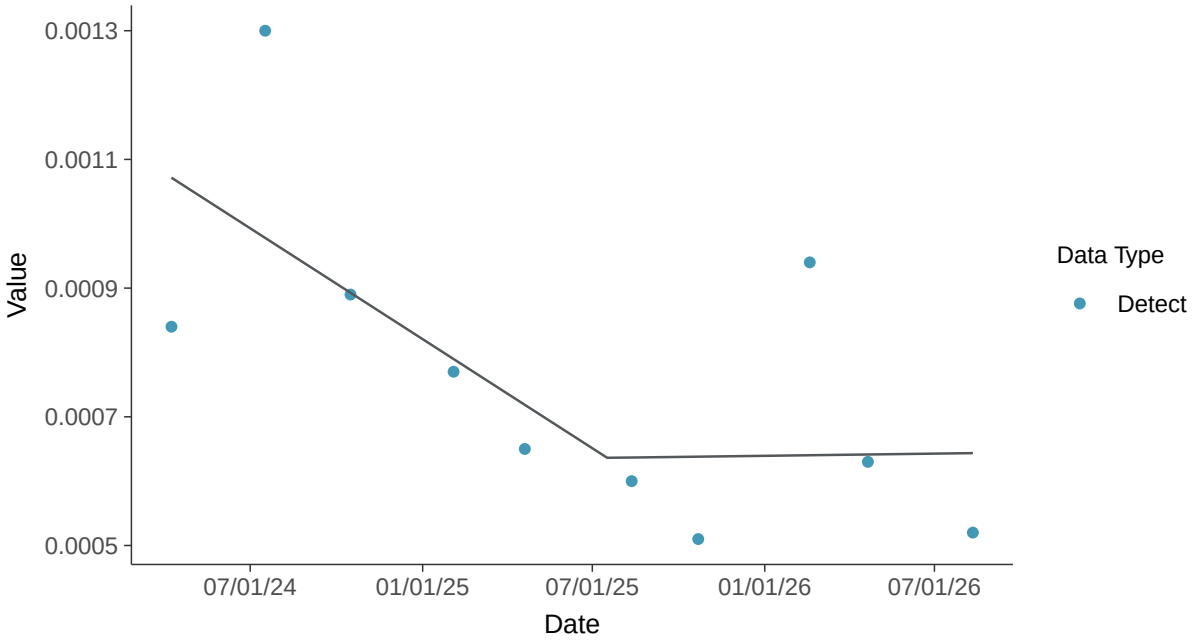
Trend Regression: Lognormal MLE

Vanadium, MW-17 (mg/L)



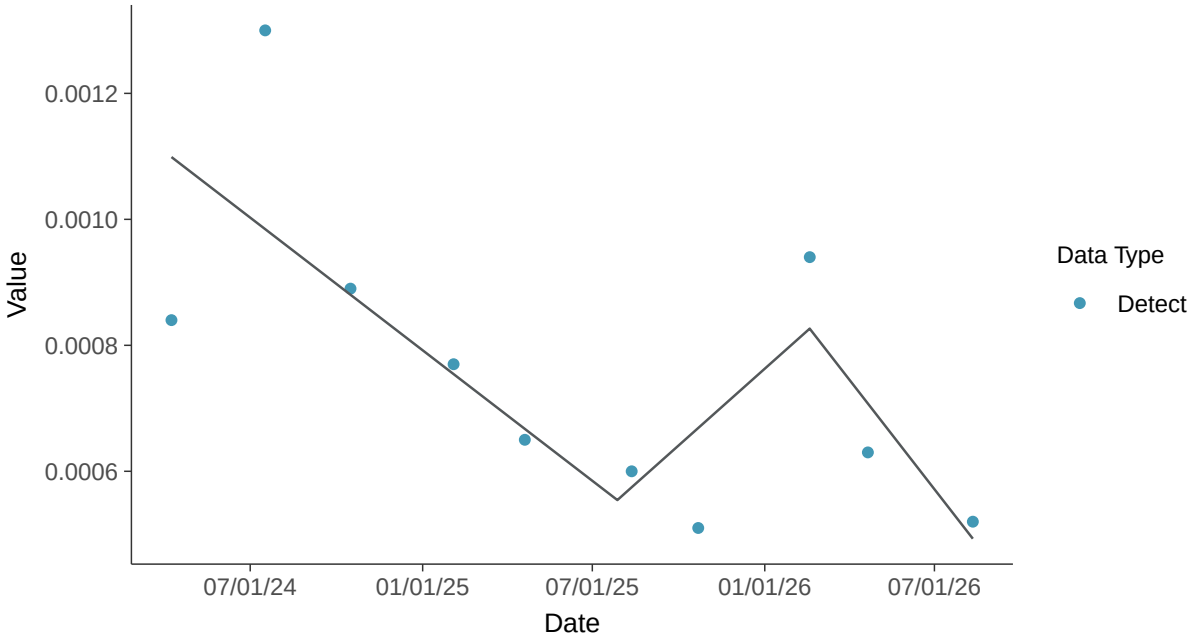
Trend Regression: Piecewise Linear-Linear

Vanadium, MW-17 (mg/L)



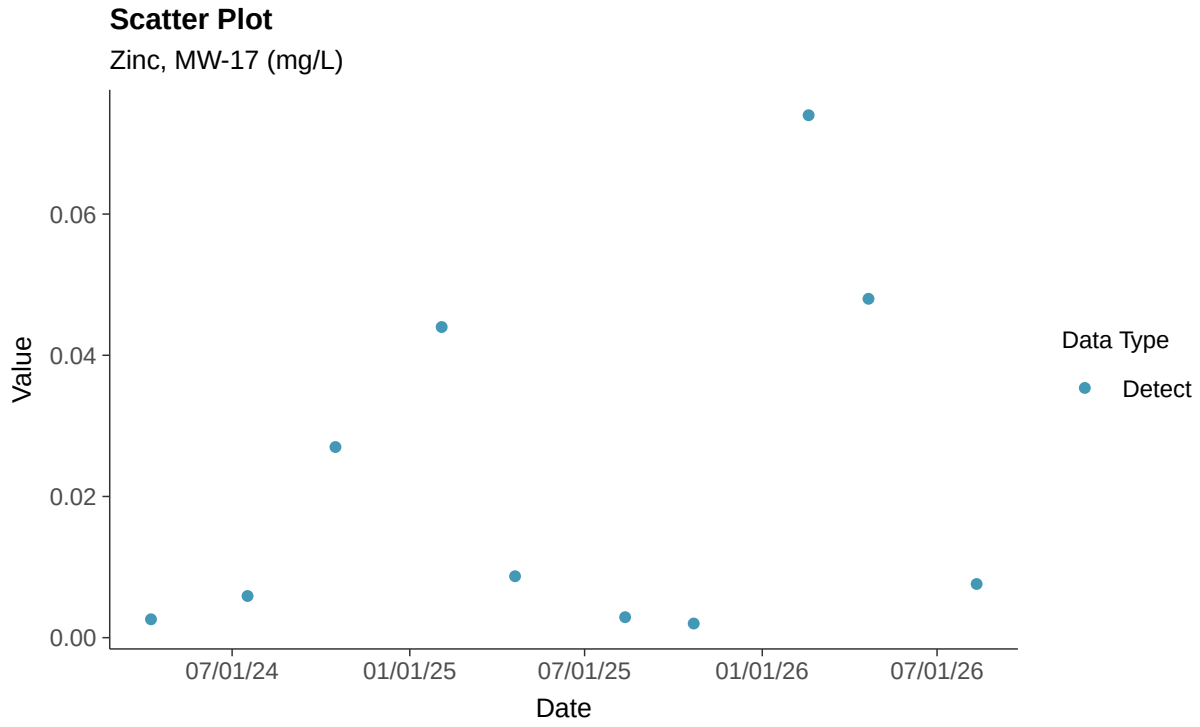
Trend Regression: Piecewise Linear-Linear-Linear

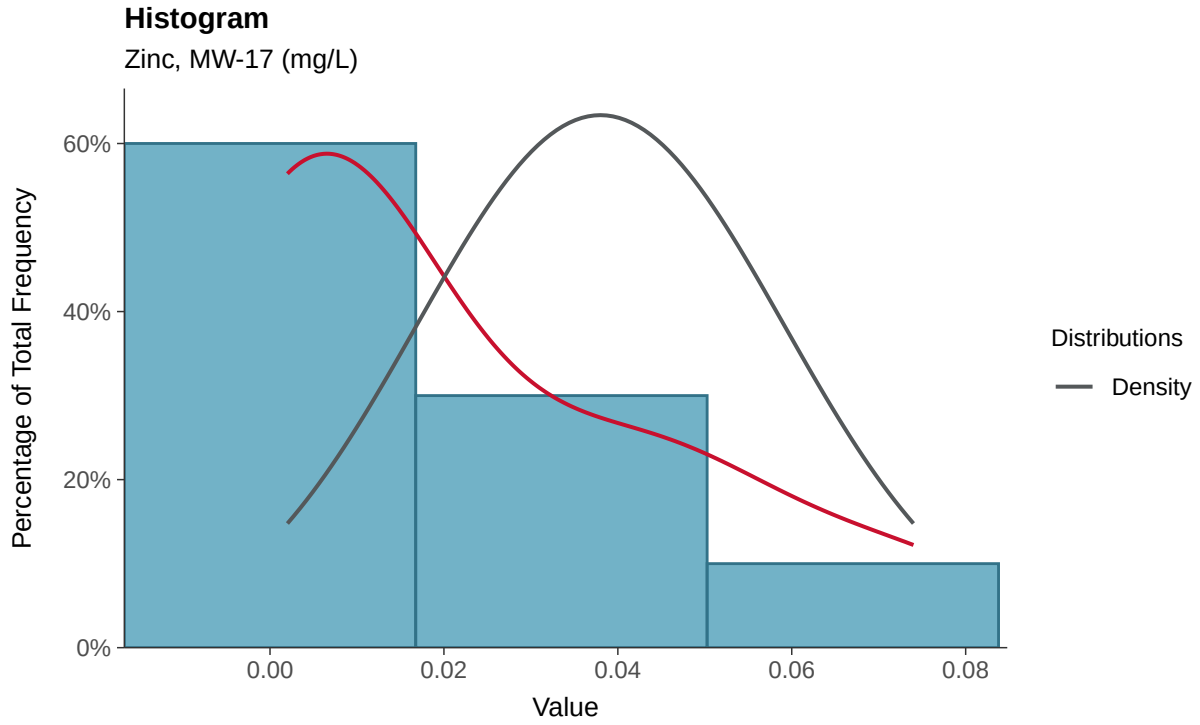
Vanadium, MW-17 (mg/L)



Part 115: Zinc, MW-17

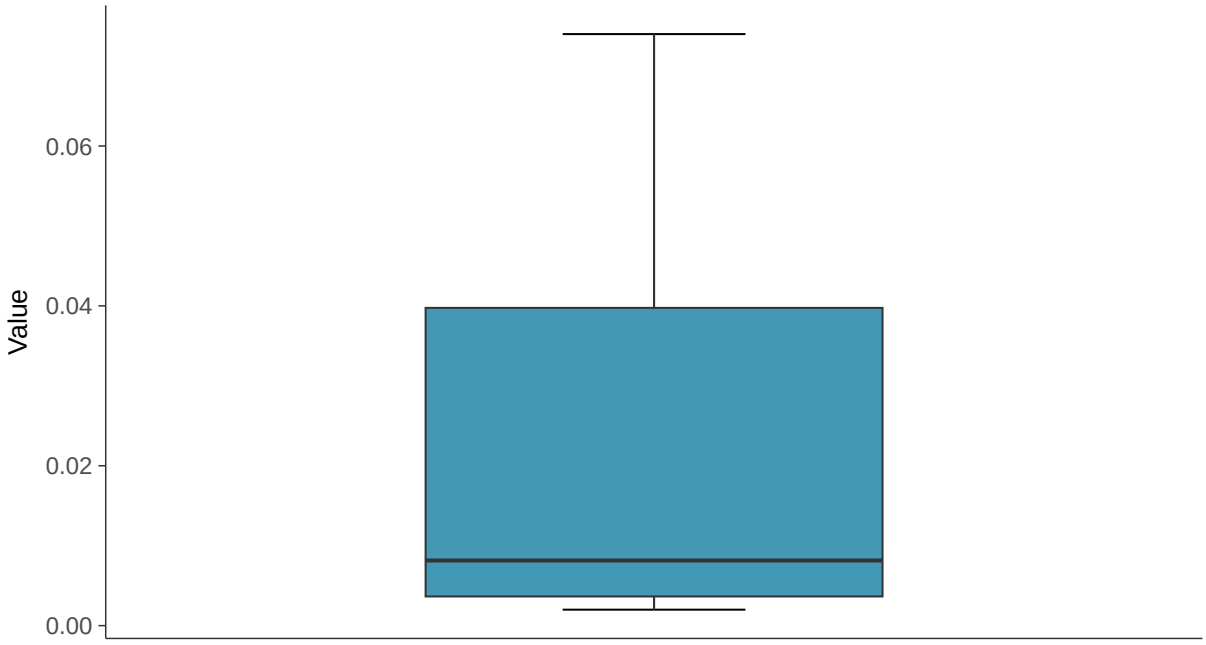
ID: 27_1_5_129





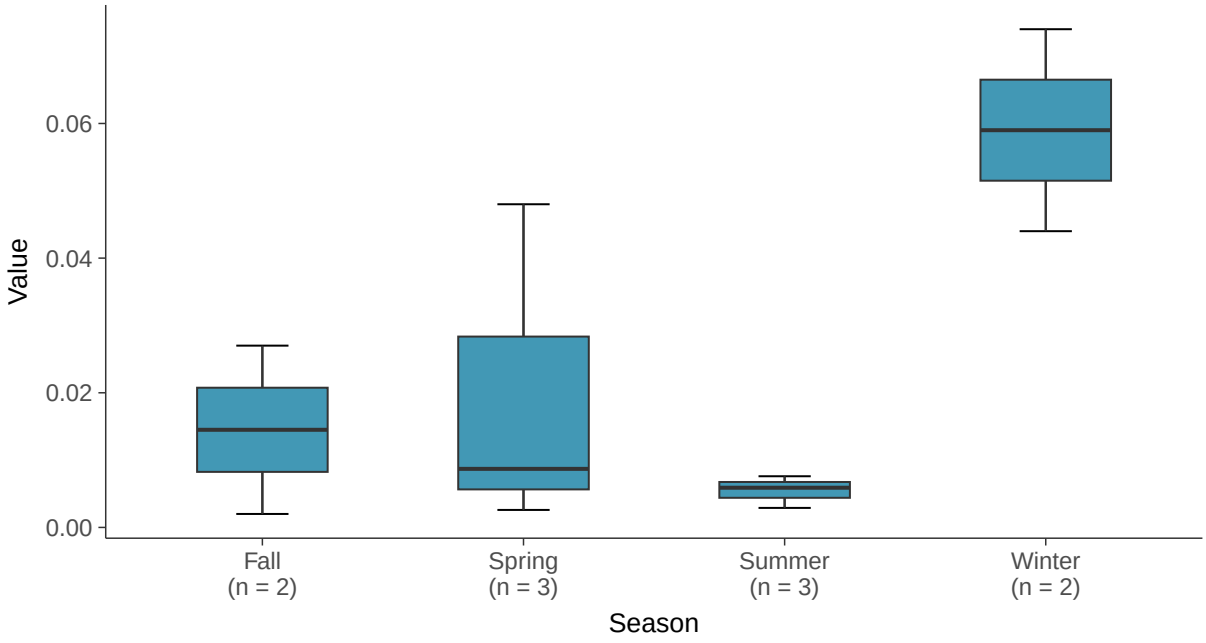
Boxplot

Zinc, MW-17 (mg/L)



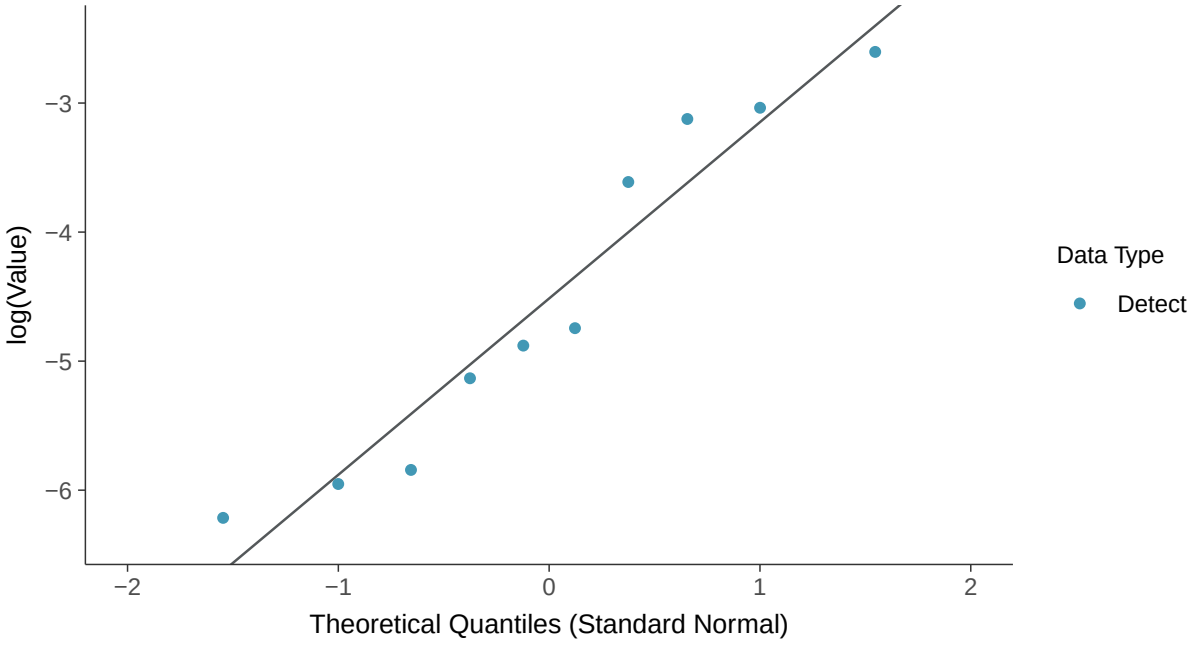
Boxplot by Season

Zinc, MW-17 (mg/L)



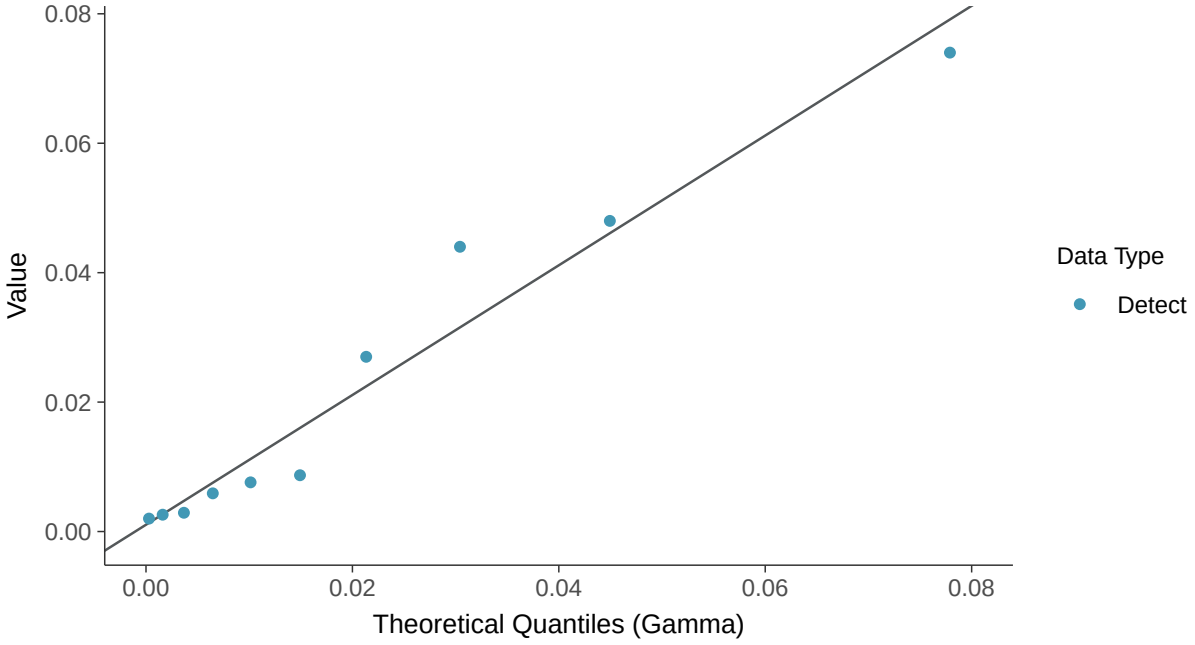
Lognormal Q-Q plot

Zinc, MW-17 (mg/L)



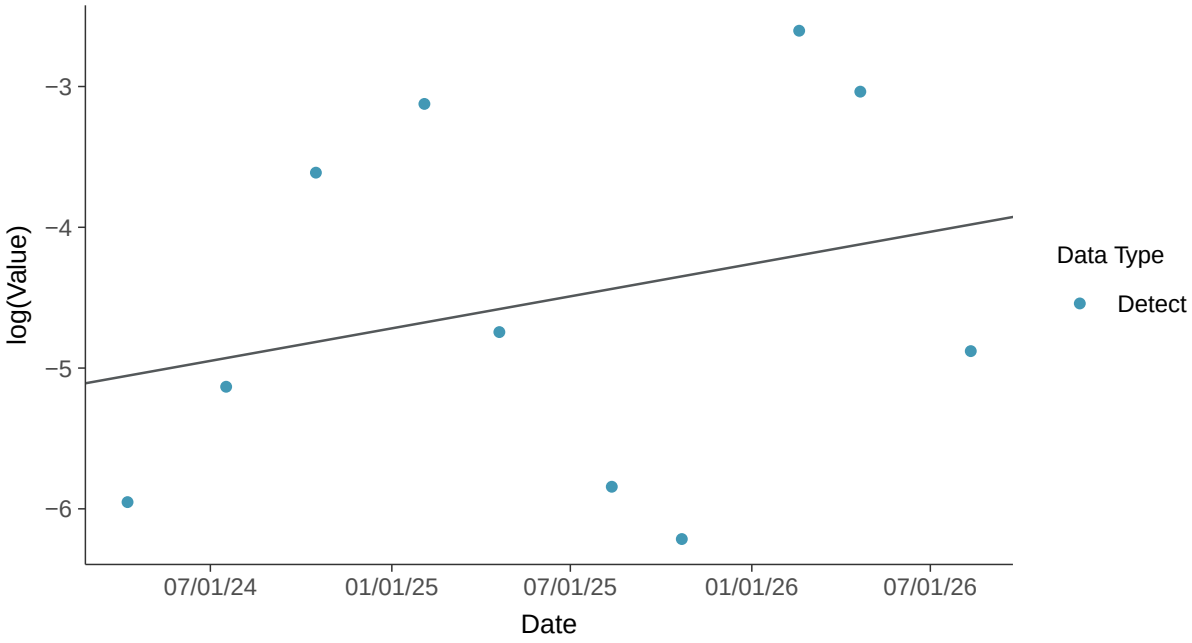
Gamma Q-Q plot

Zinc, MW-17 (mg/L)



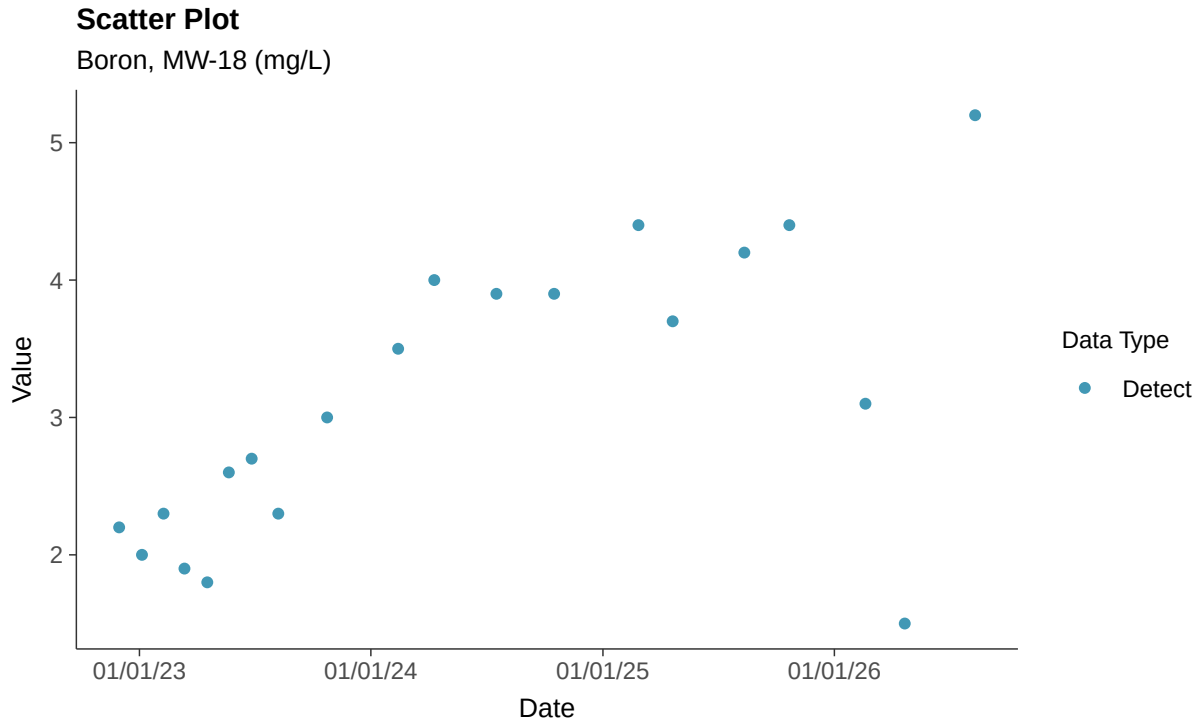
Trend Regression: Lognormal MLE

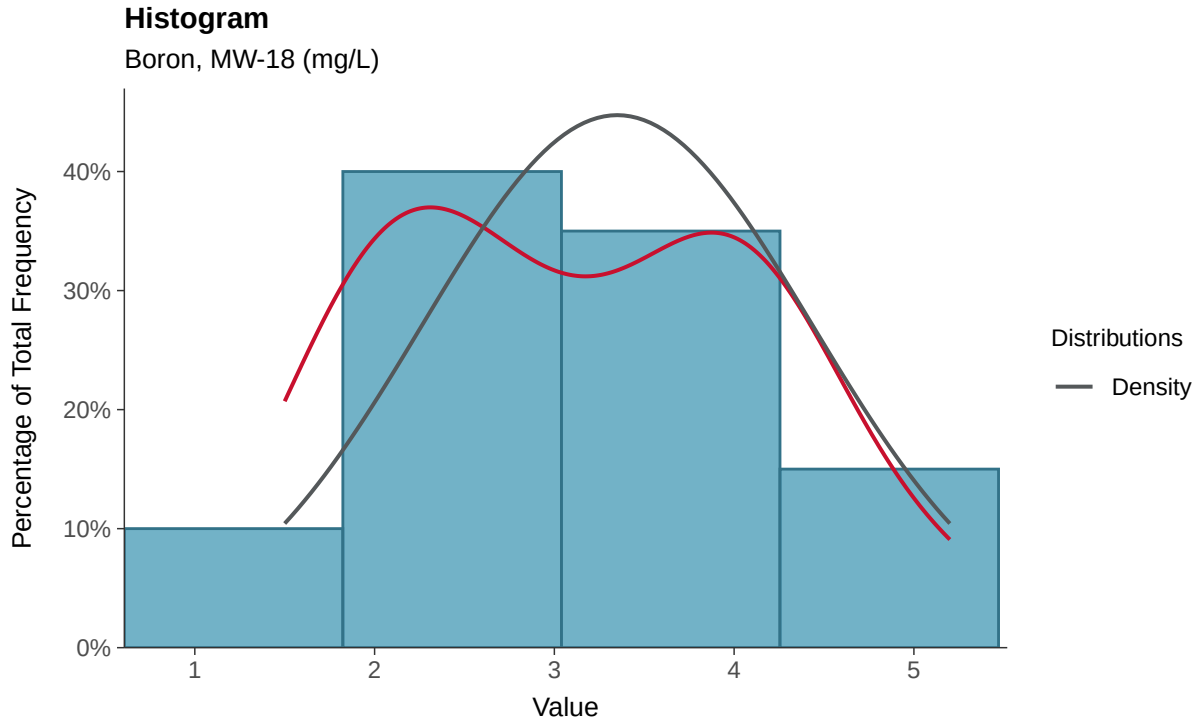
Zinc, MW-17 (mg/L)



Appendix III: Boron, MW-18

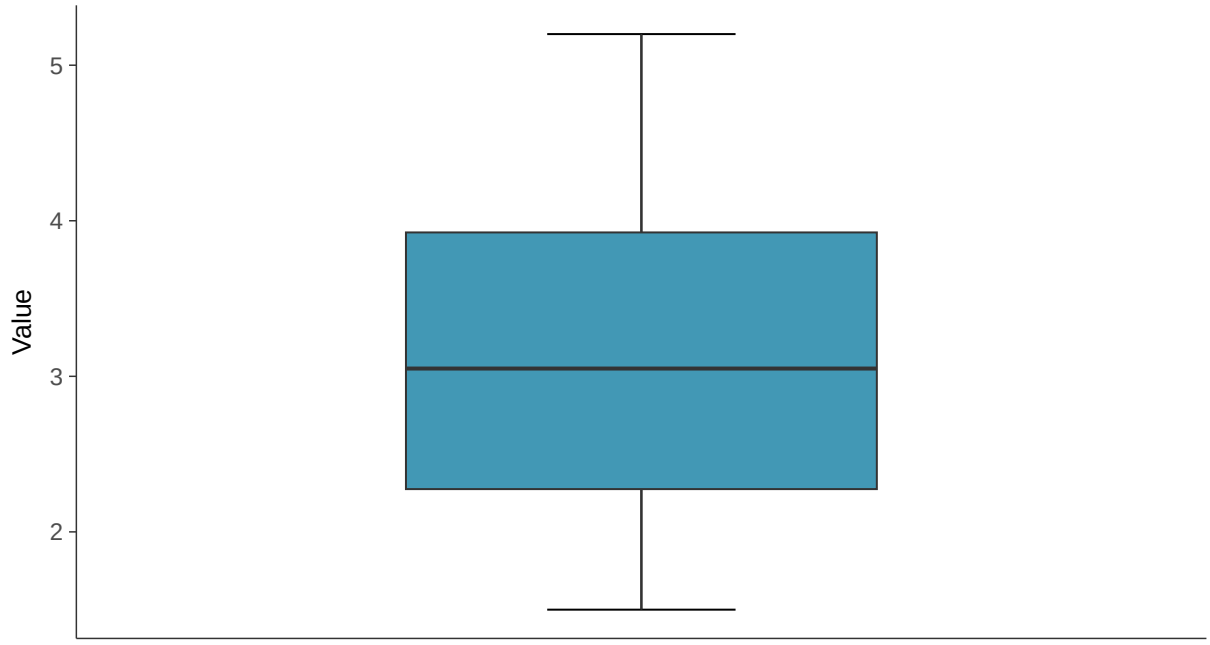
ID: 28_1_3_105





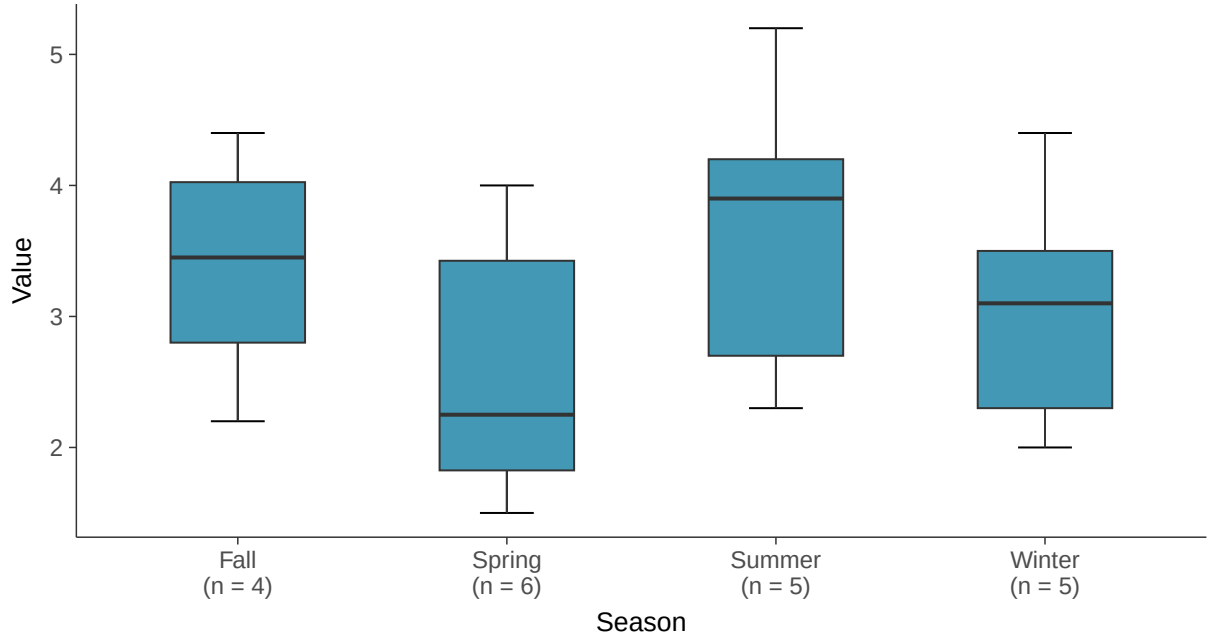
Boxplot

Boron, MW-18 (mg/L)



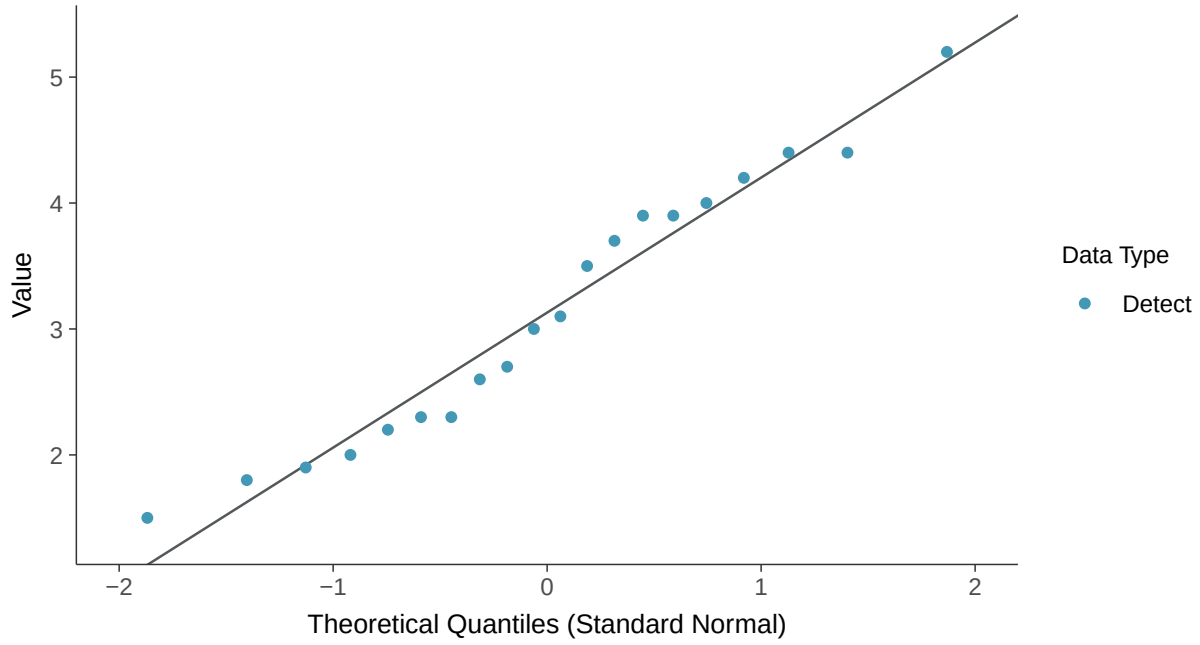
Boxplot by Season

Boron, MW-18 (mg/L)



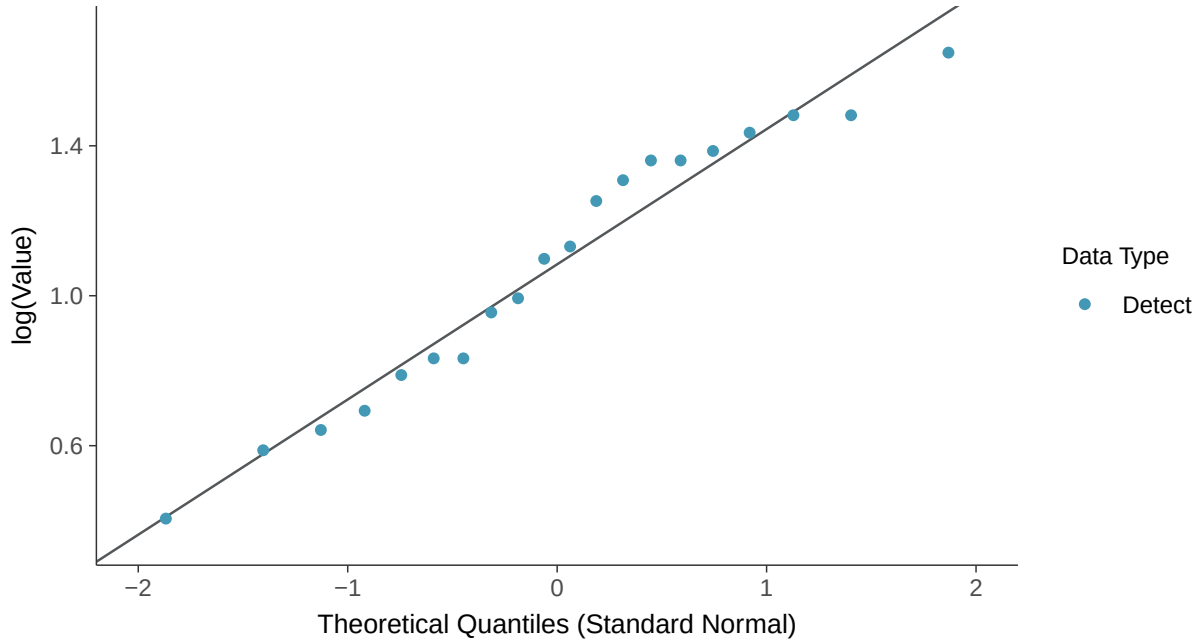
Normal Q-Q plot

Boron, MW-18 (mg/L)



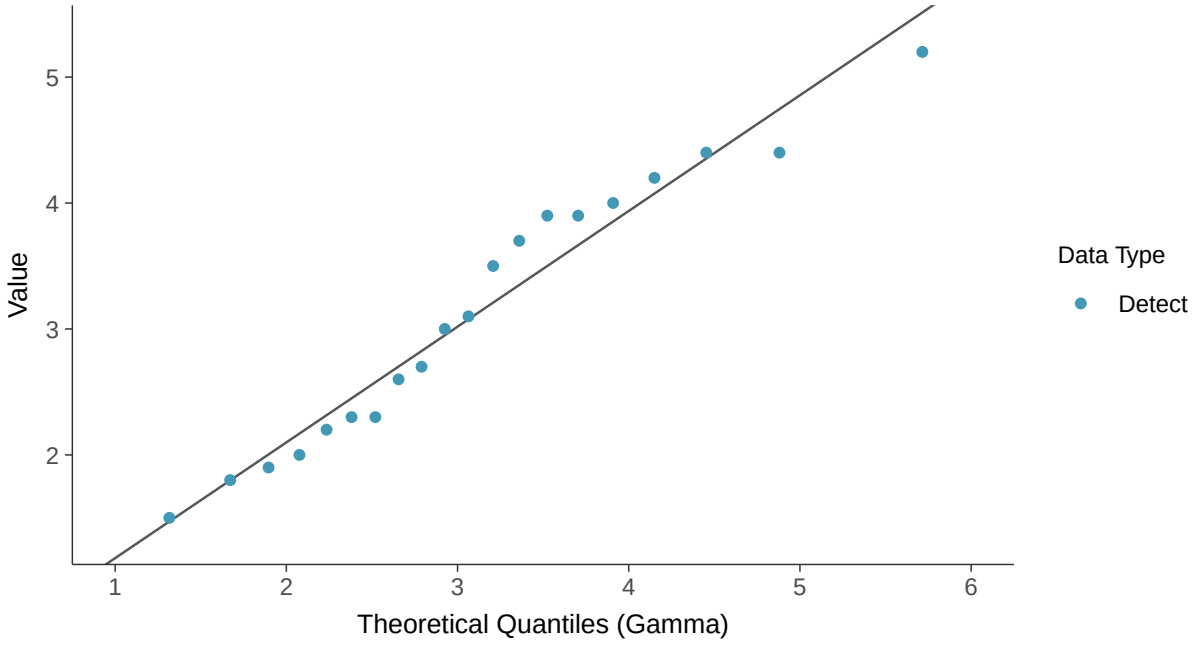
Lognormal Q-Q plot

Boron, MW-18 (mg/L)



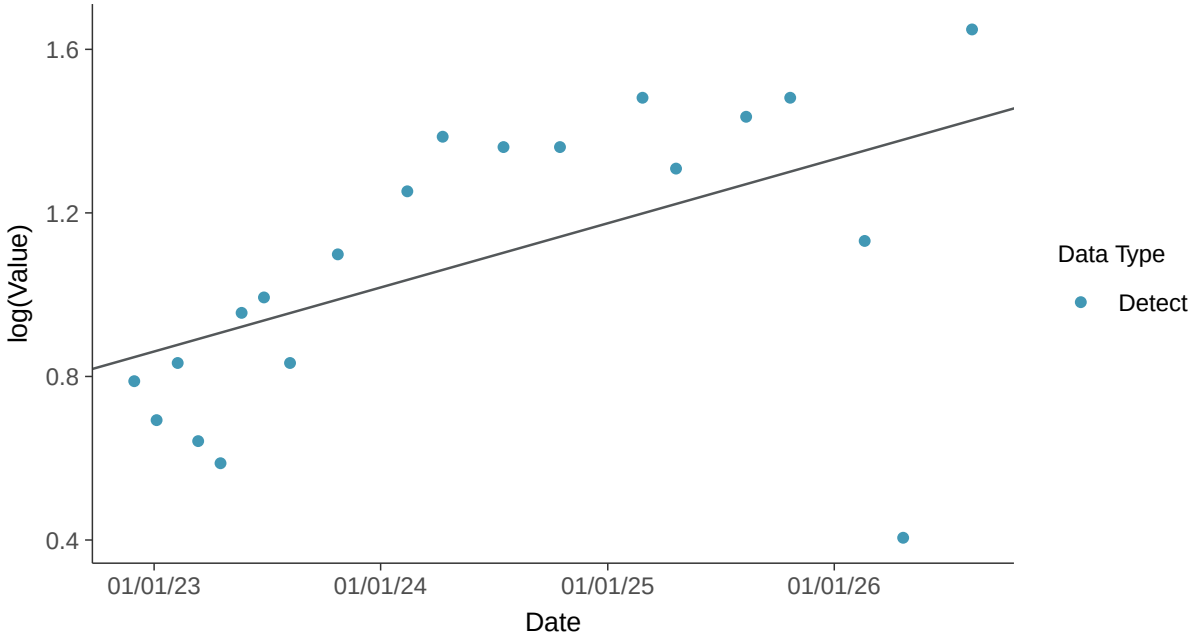
Gamma Q-Q plot

Boron, MW-18 (mg/L)



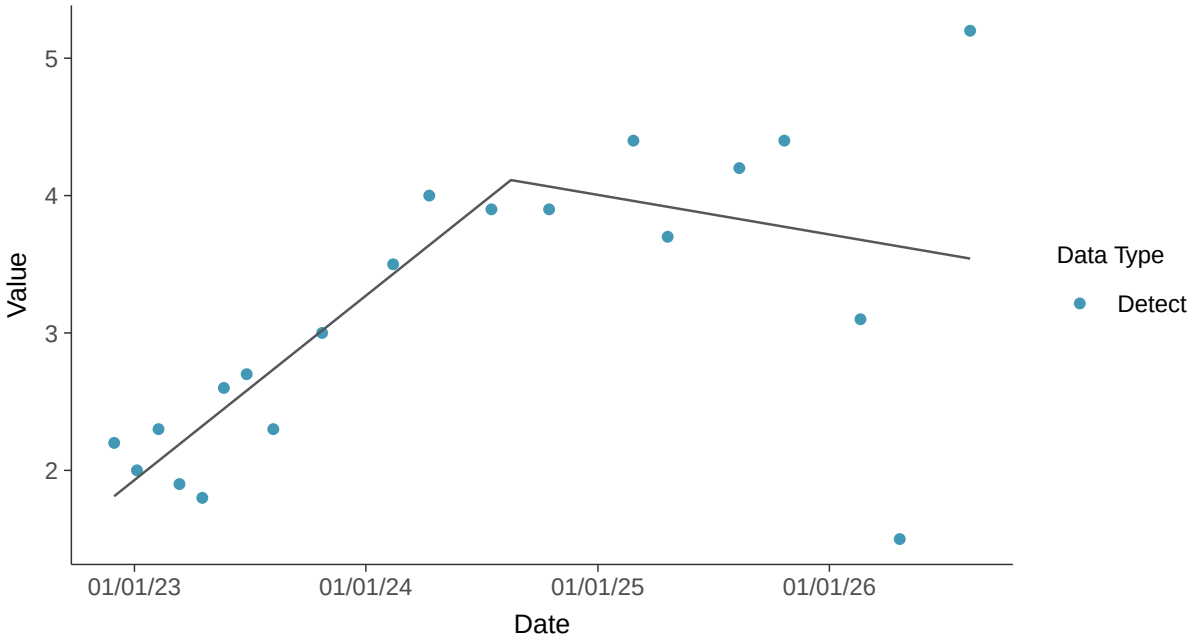
Trend Regression: Lognormal MLE

Boron, MW-18 (mg/L)



Trend Regression: Piecewise Linear-Linear

Boron, MW-18 (mg/L)

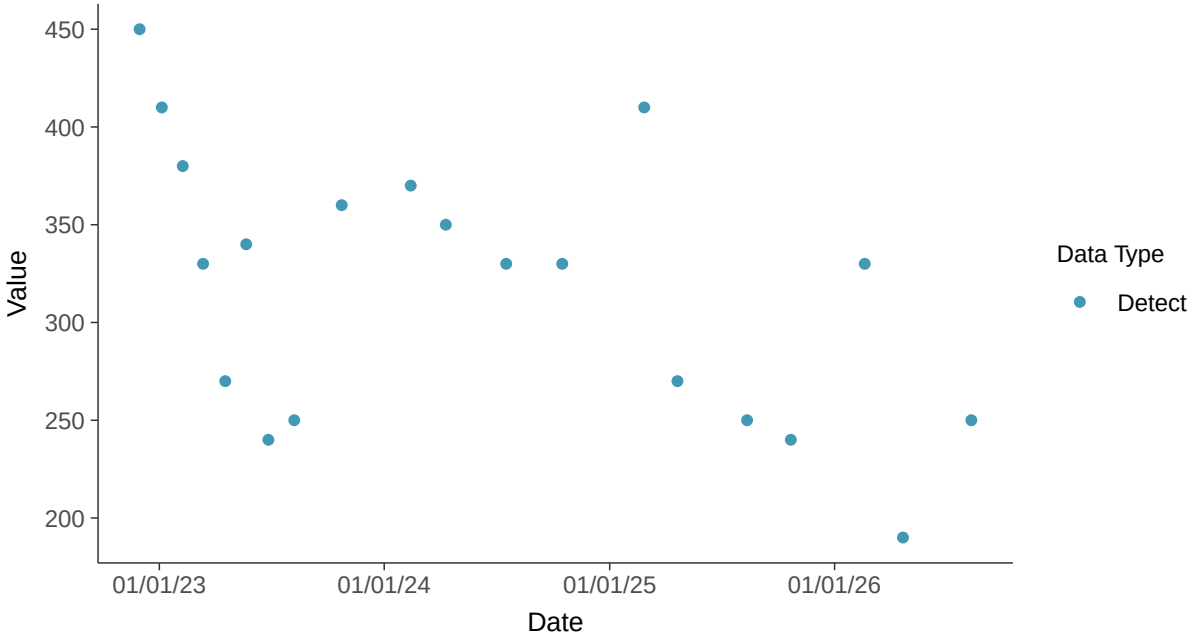


Appendix III: Calcium, MW-18

ID: 28_1_3_107

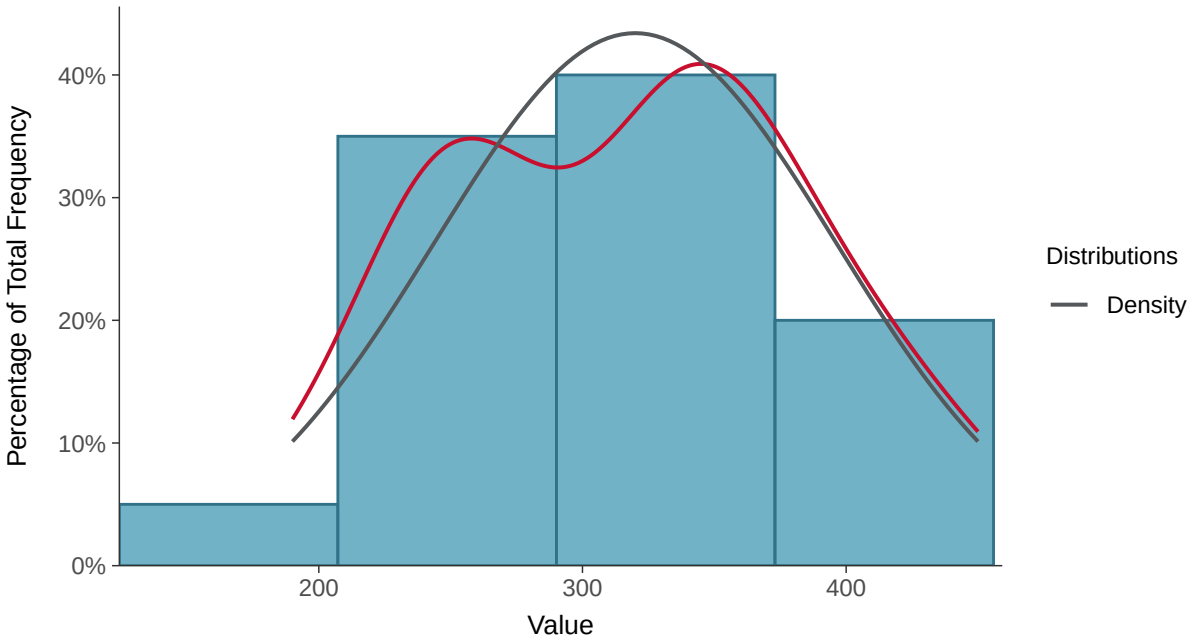
Scatter Plot

Calcium, MW-18 (mg/L)



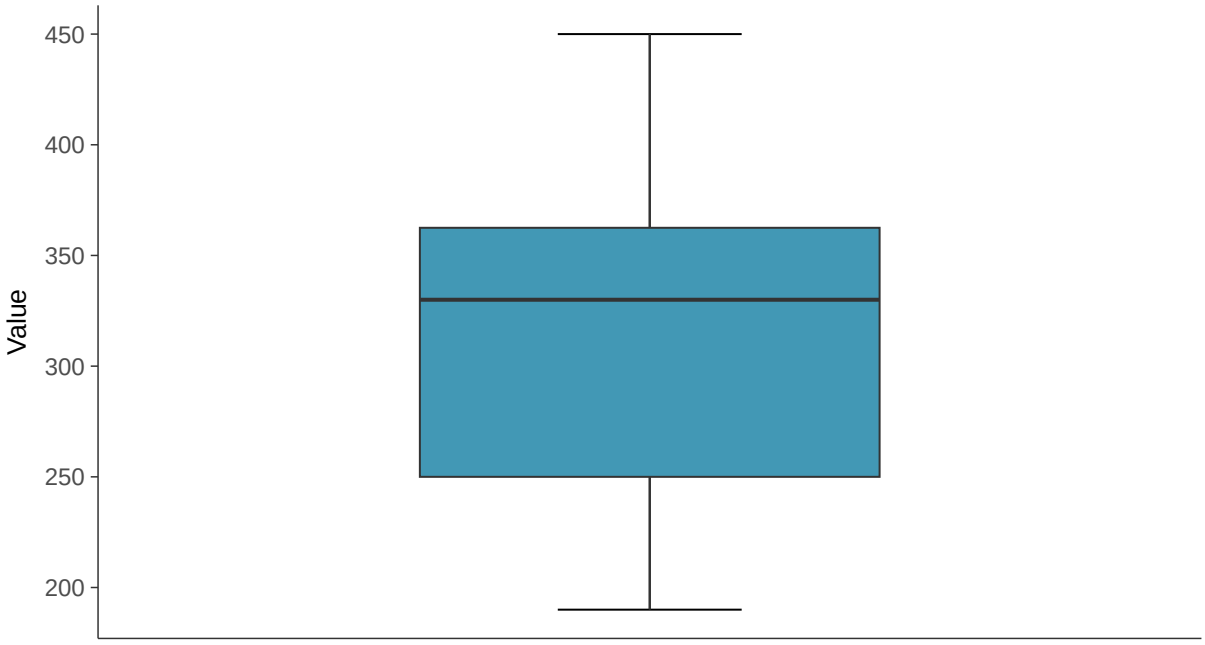
Histogram

Calcium, MW-18 (mg/L)



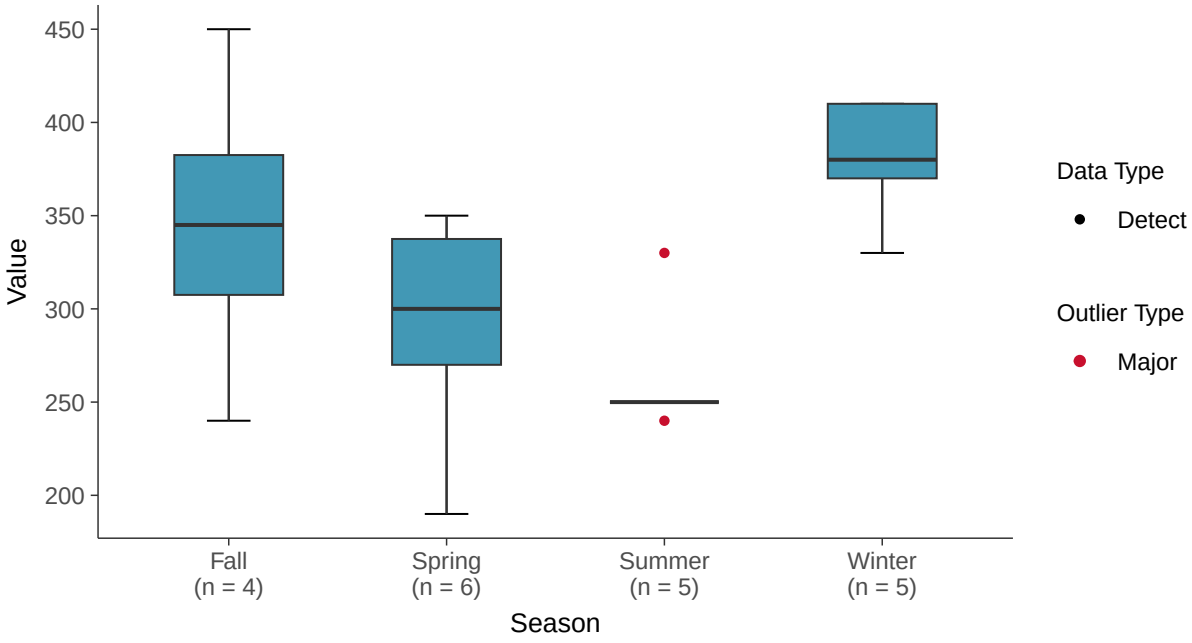
Boxplot

Calcium, MW-18 (mg/L)



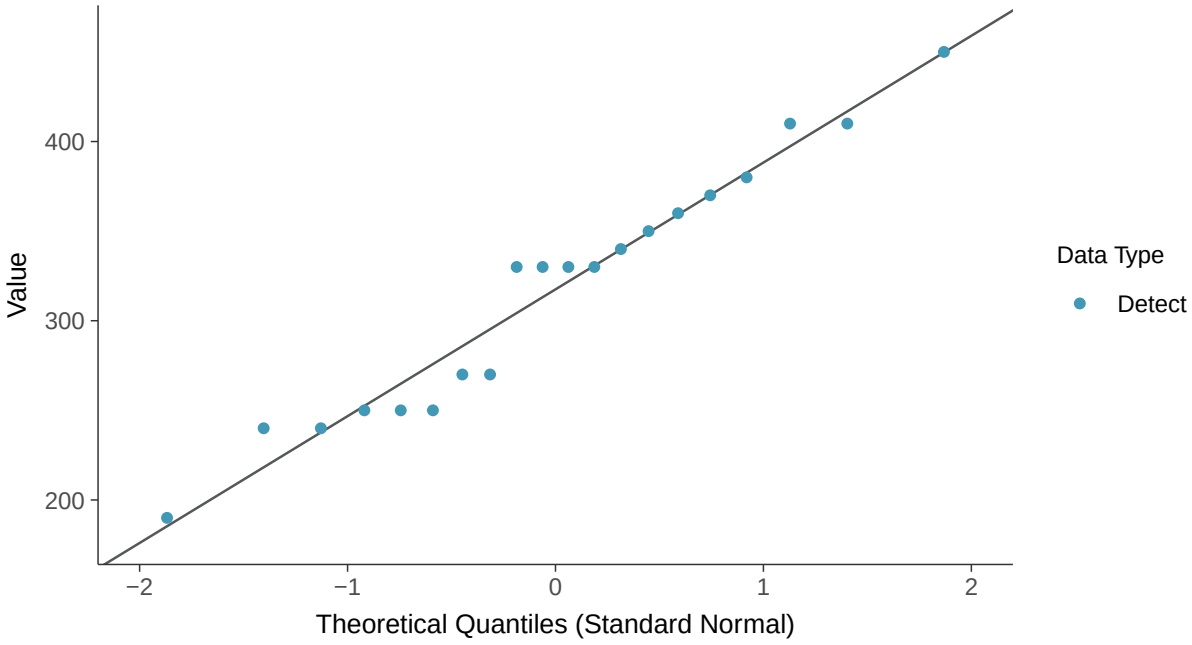
Boxplot by Season

Calcium, MW-18 (mg/L)



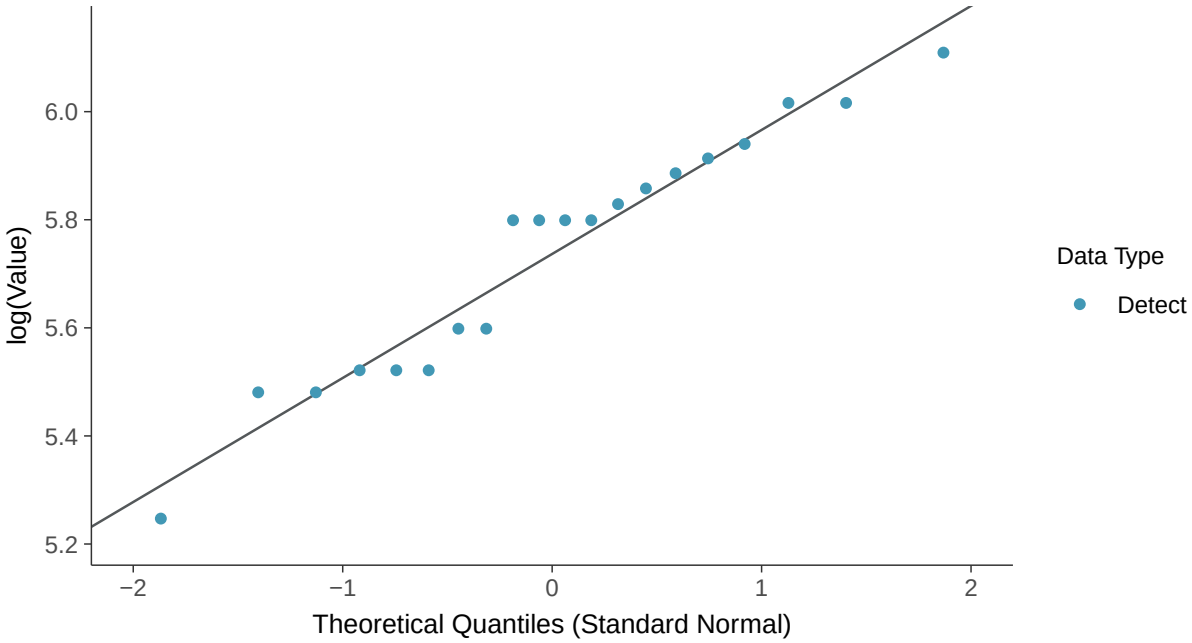
Normal Q-Q plot

Calcium, MW-18 (mg/L)



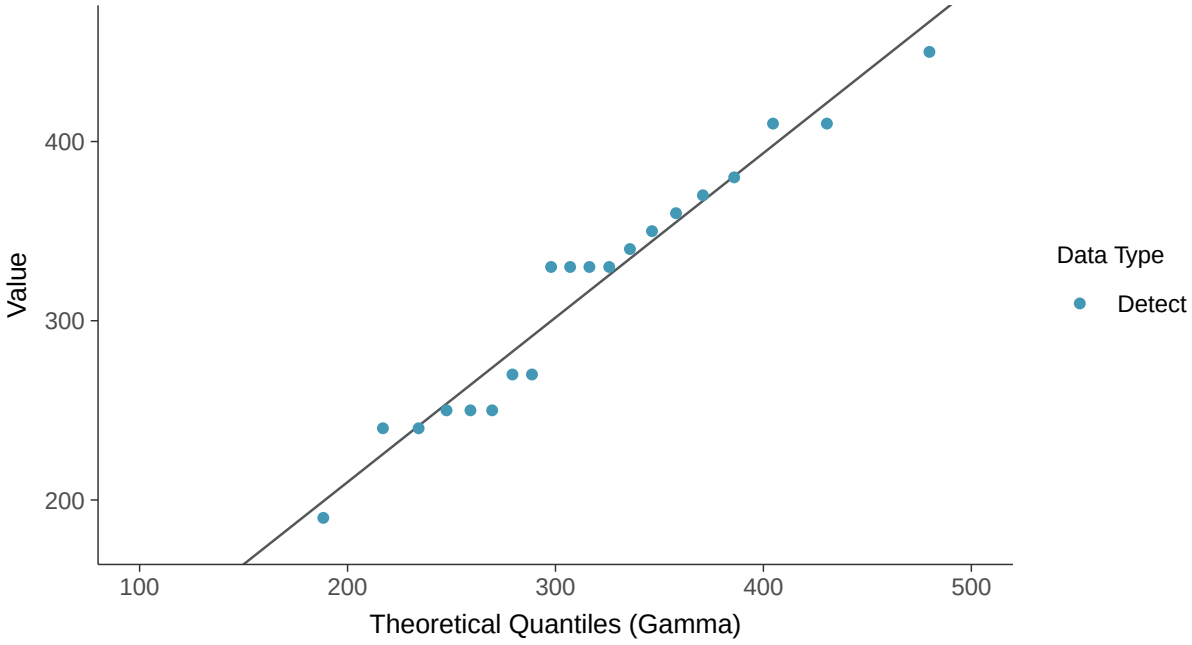
Lognormal Q-Q plot

Calcium, MW-18 (mg/L)



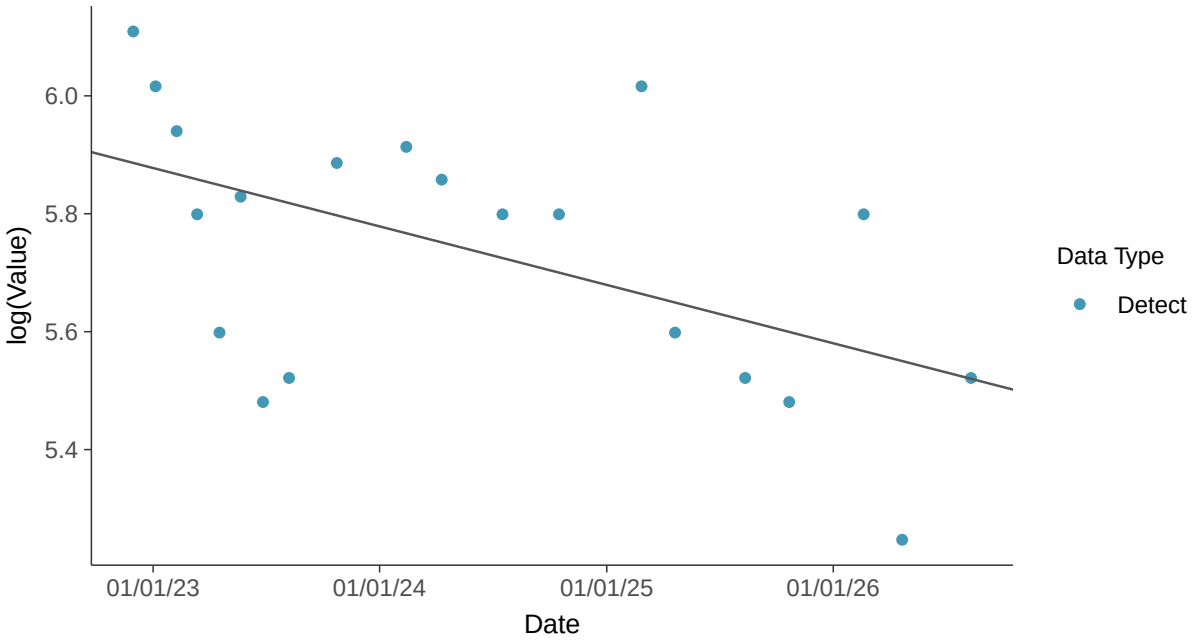
Gamma Q-Q plot

Calcium, MW-18 (mg/L)



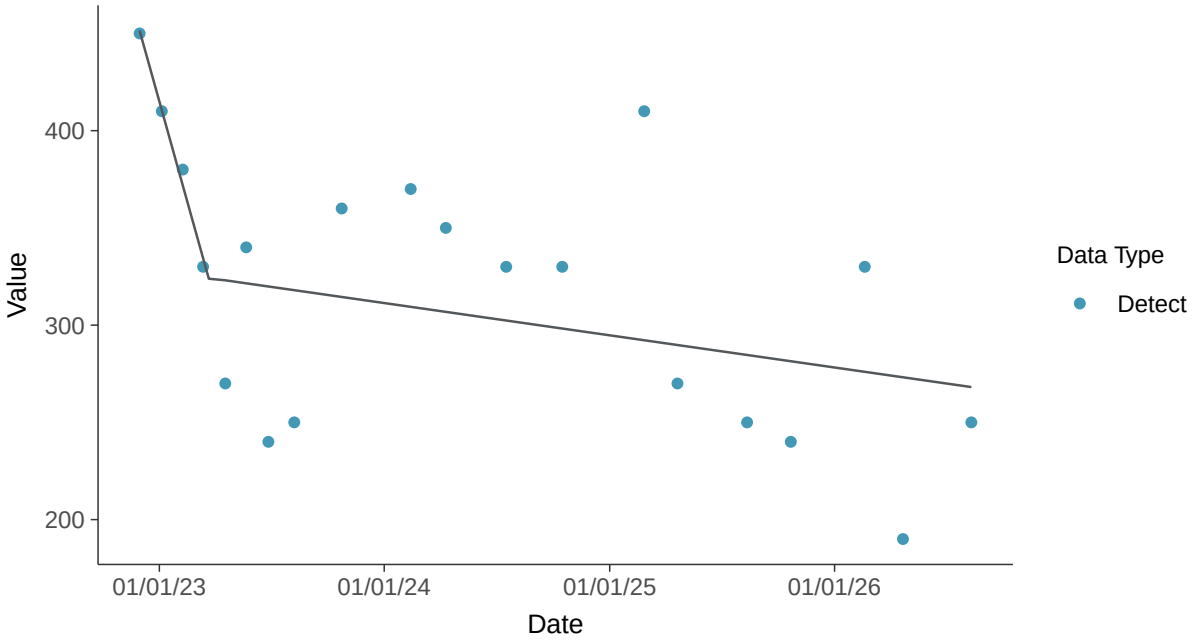
Trend Regression: Lognormal MLE

Calcium, MW-18 (mg/L)



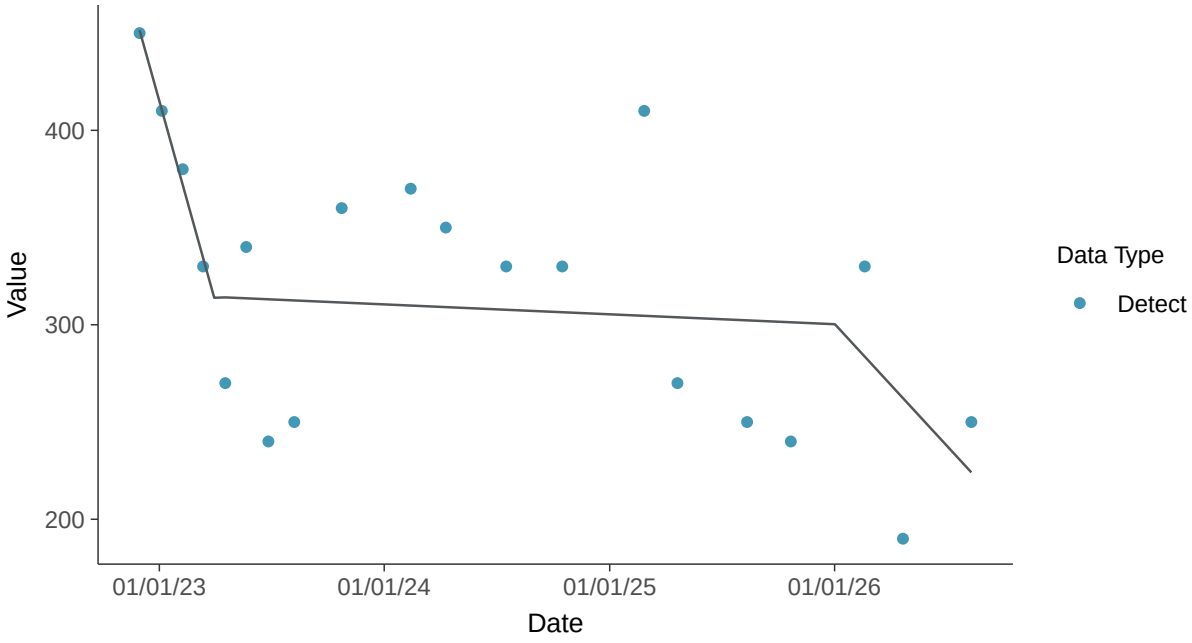
Trend Regression: Piecewise Linear-Linear

Calcium, MW-18 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Calcium, MW-18 (mg/L)

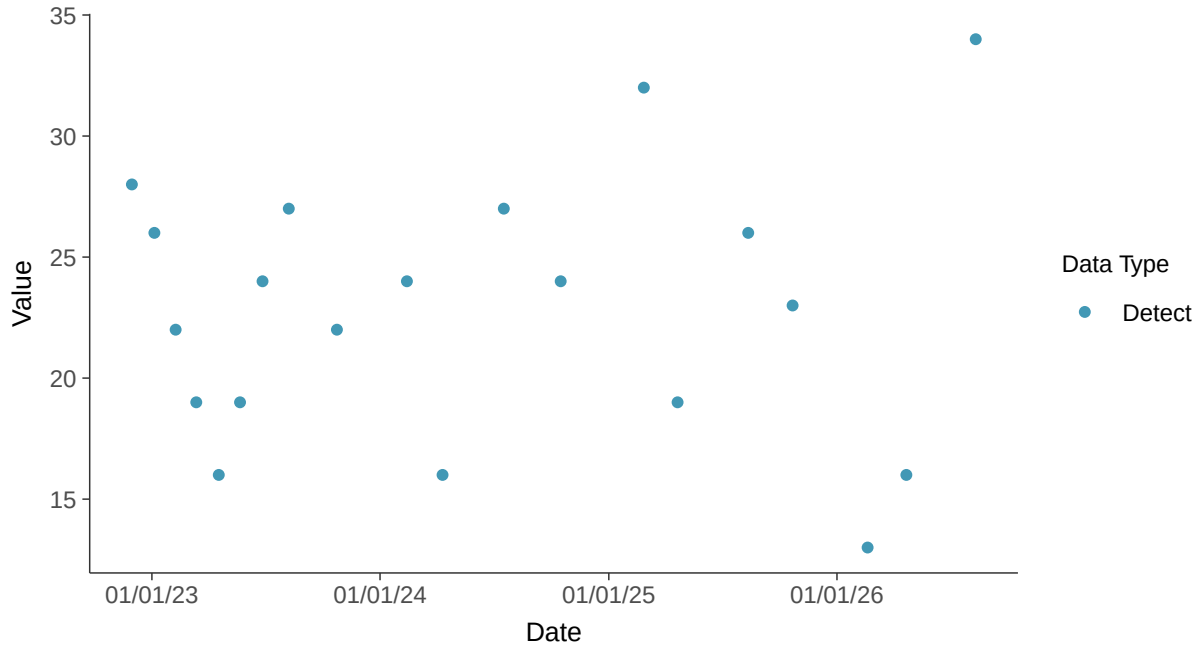


Appendix III: Chloride (as Cl), MW-18

ID: 28_1_3_108

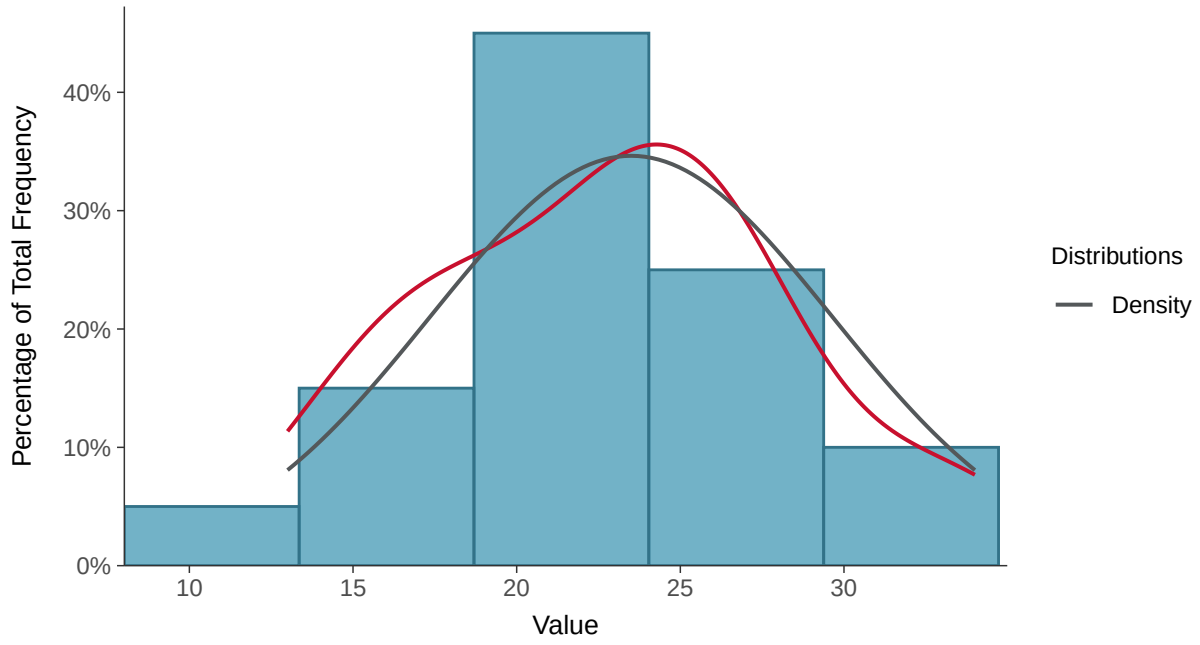
Scatter Plot

Chloride (as Cl), MW-18 (mg/L)



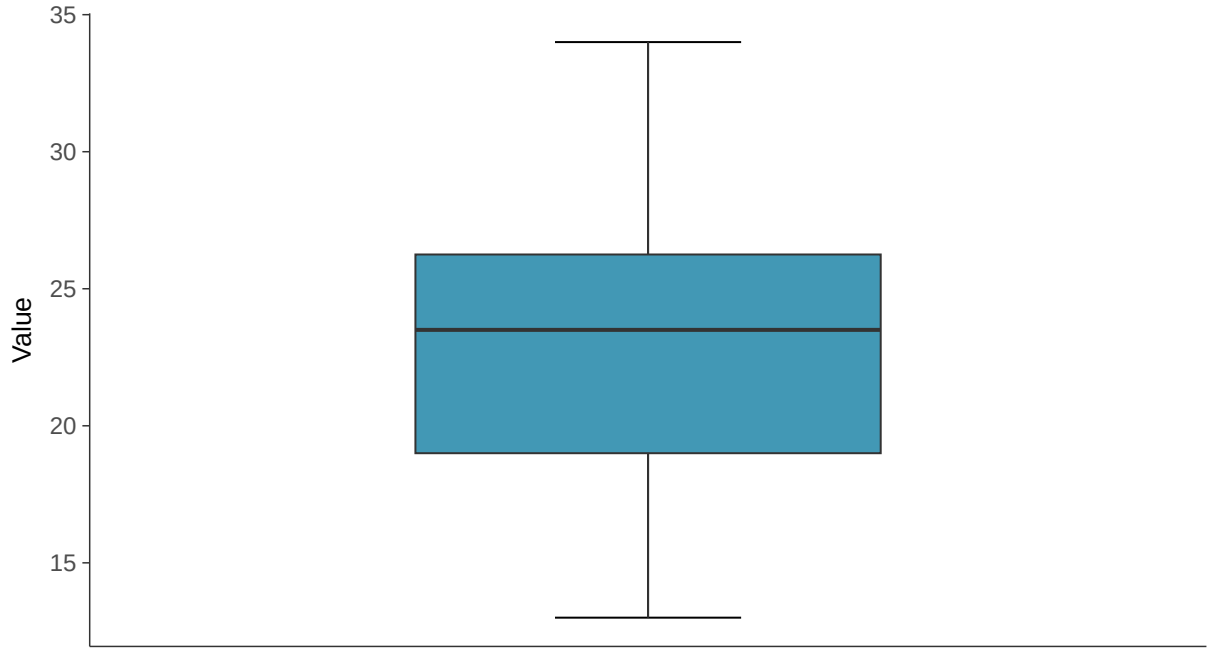
Histogram

Chloride (as Cl), MW-18 (mg/L)



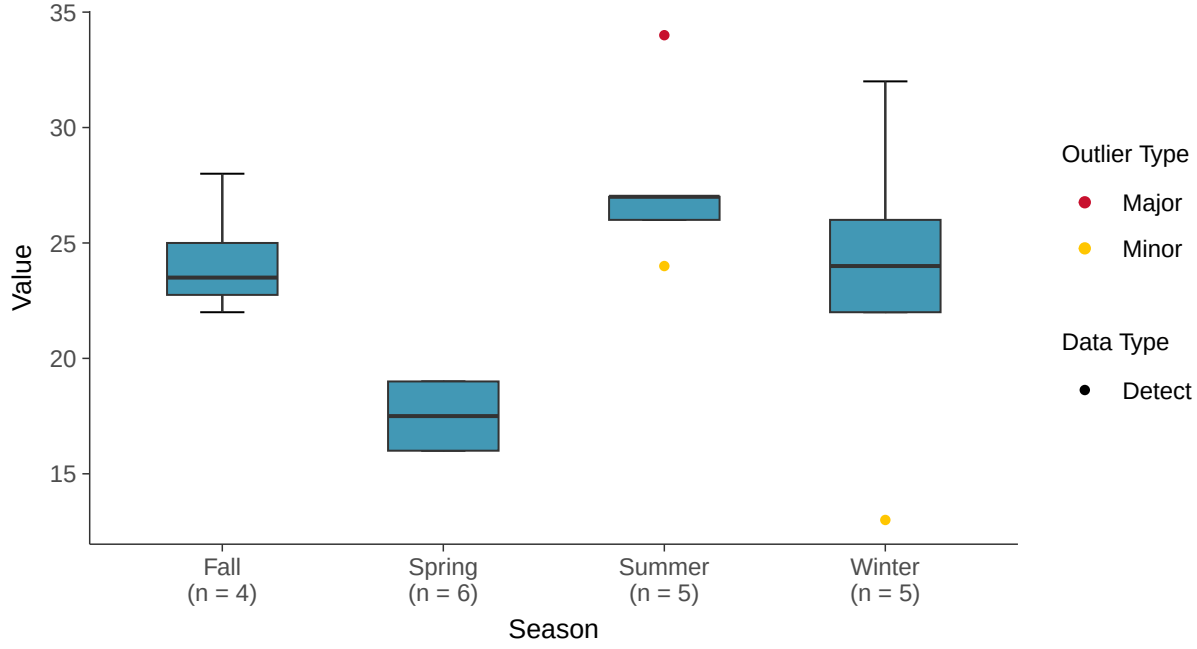
Boxplot

Chloride (as Cl), MW-18 (mg/L)



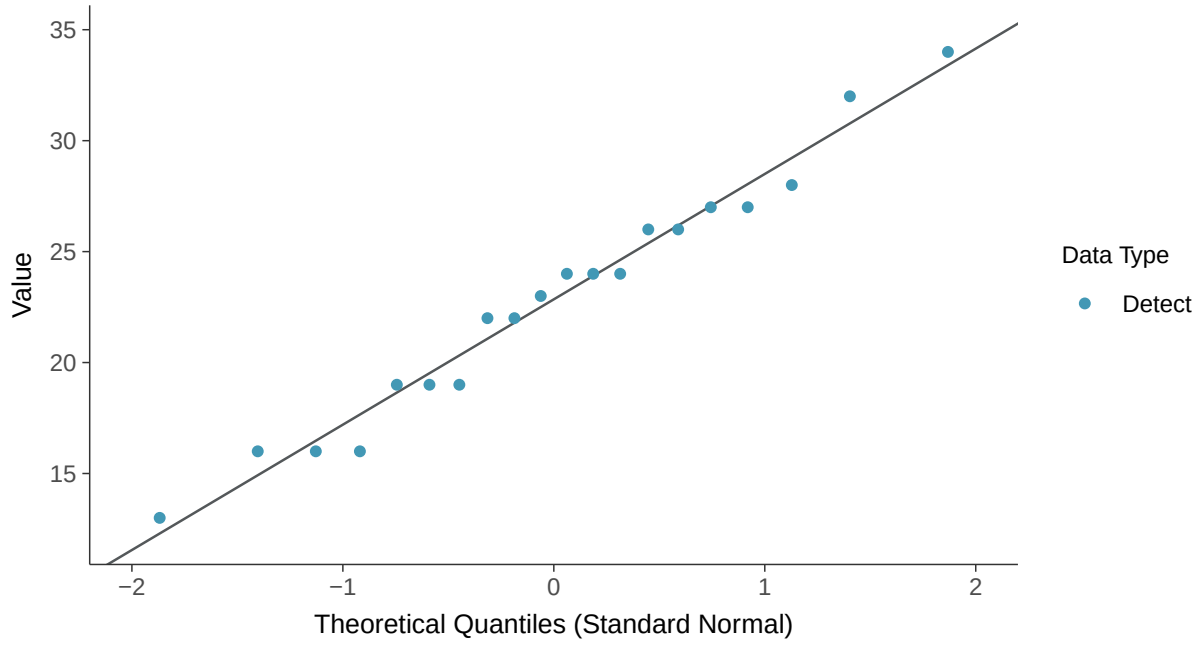
Boxplot by Season

Chloride (as Cl), MW-18 (mg/L)



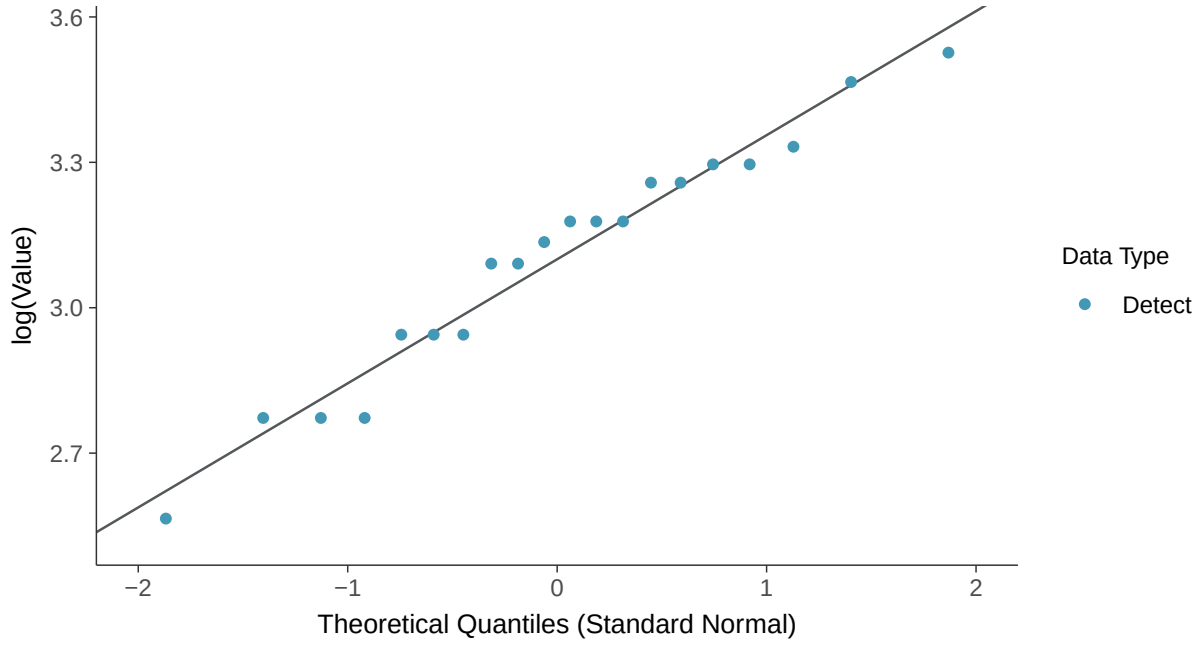
Normal Q-Q plot

Chloride (as Cl), MW-18 (mg/L)



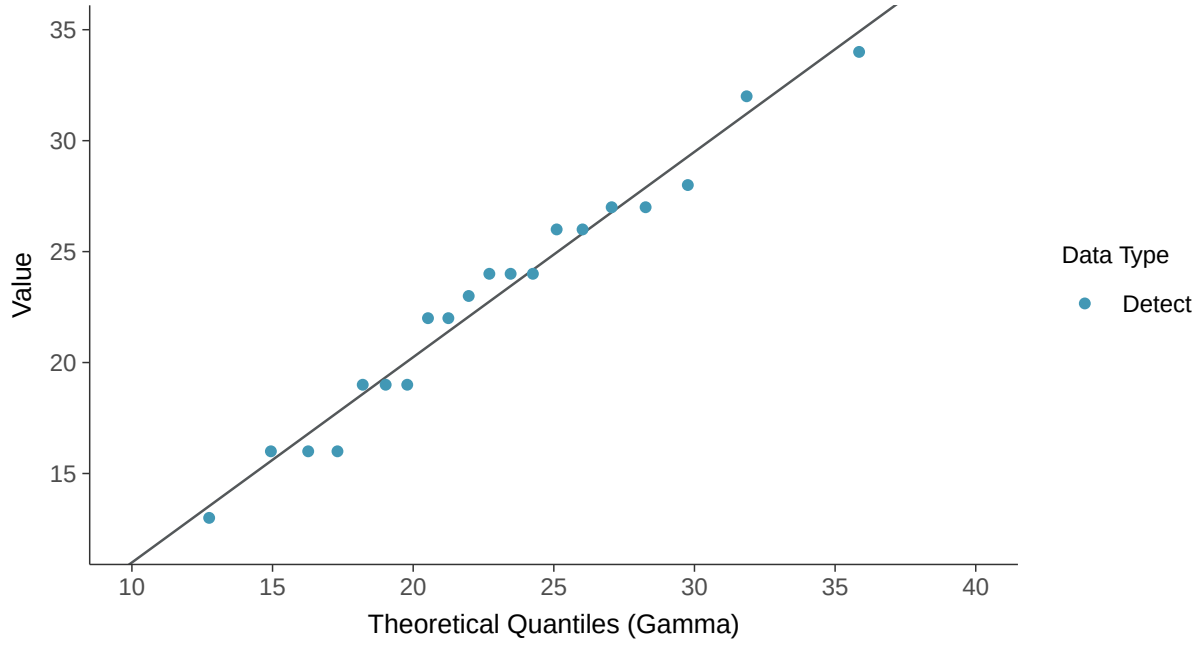
Lognormal Q-Q plot

Chloride (as Cl), MW-18 (mg/L)



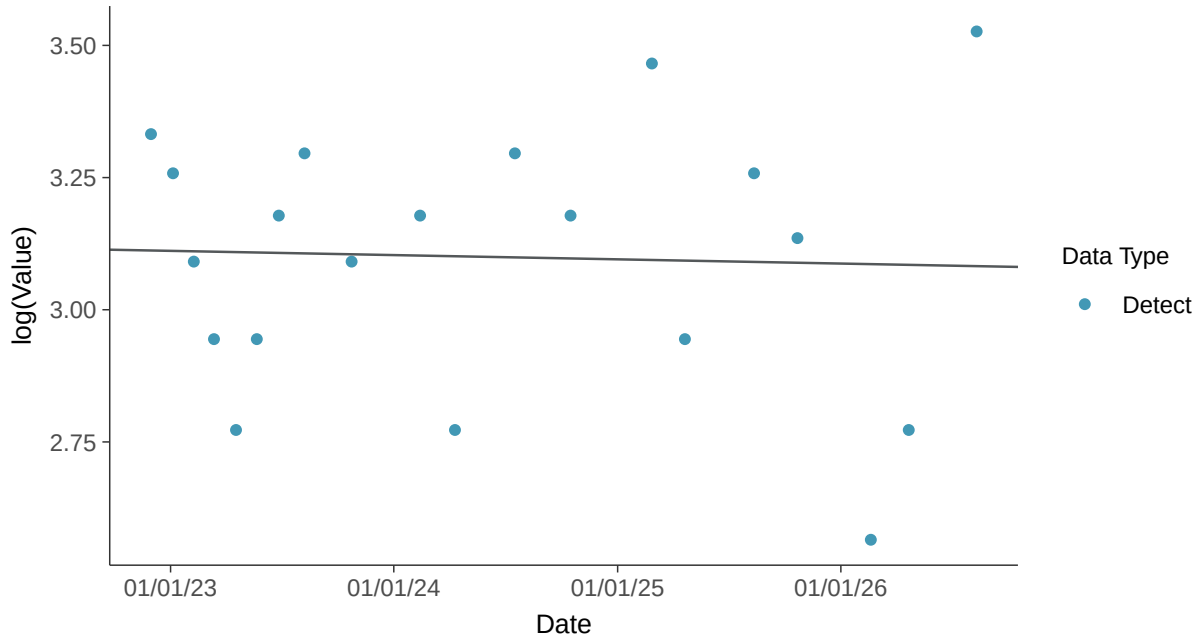
Gamma Q-Q plot

Chloride (as Cl), MW-18 (mg/L)



Trend Regression: Lognormal MLE

Chloride (as Cl), MW-18 (mg/L)

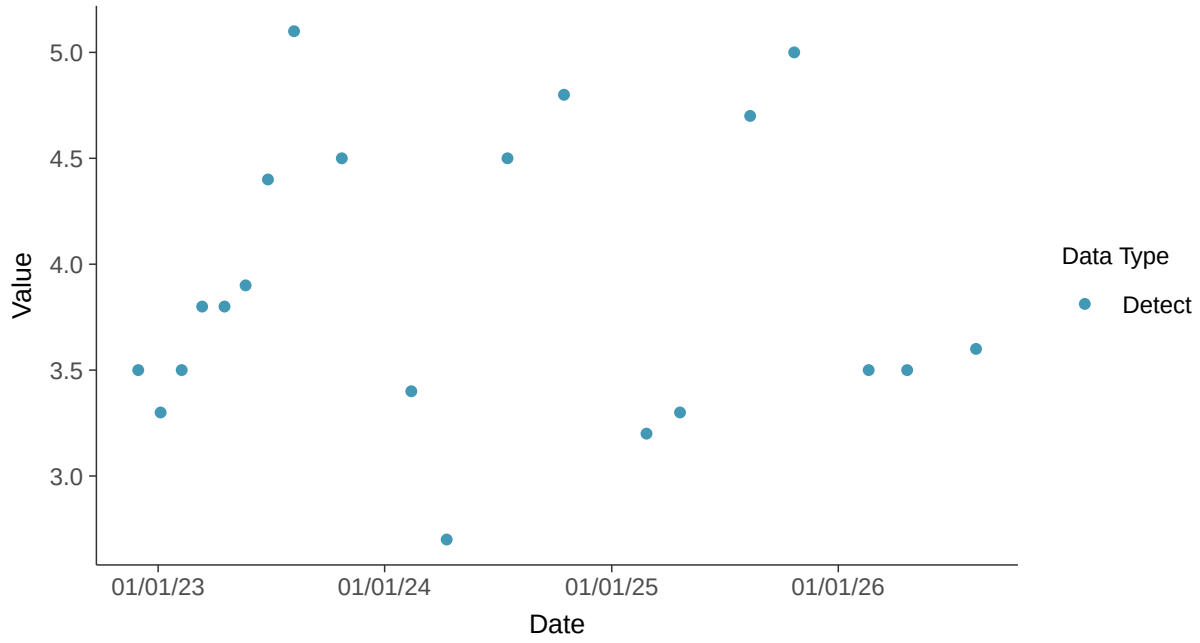


Appendix III: Fluoride, MW-18

ID: 28_1_3_112

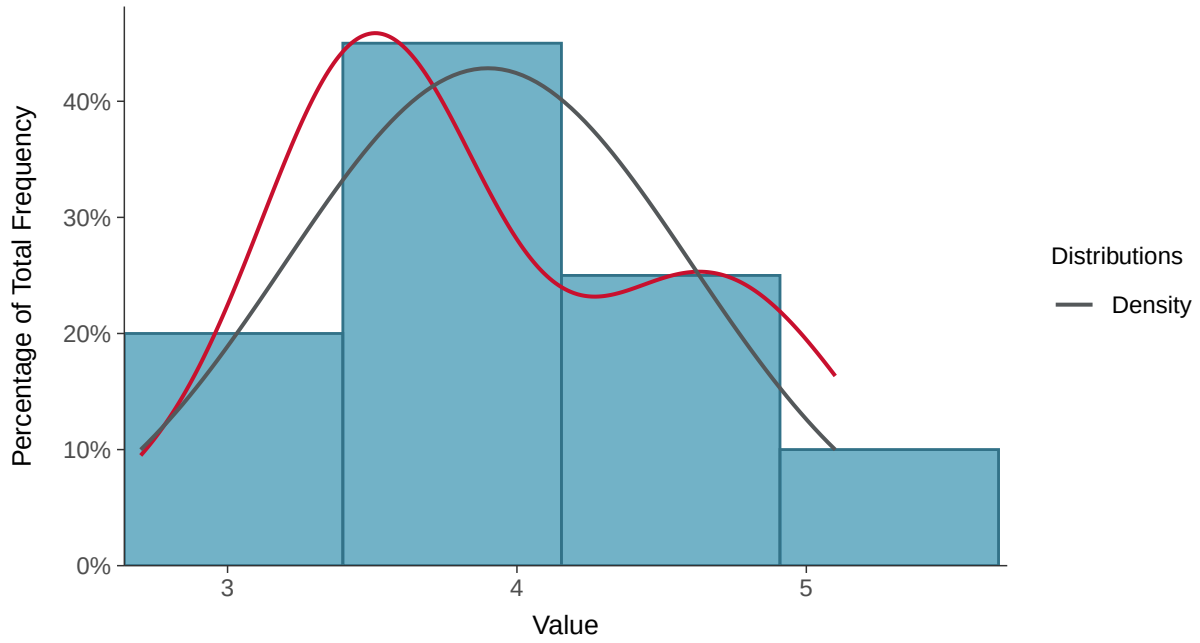
Scatter Plot

Fluoride, MW-18 (mg/L)



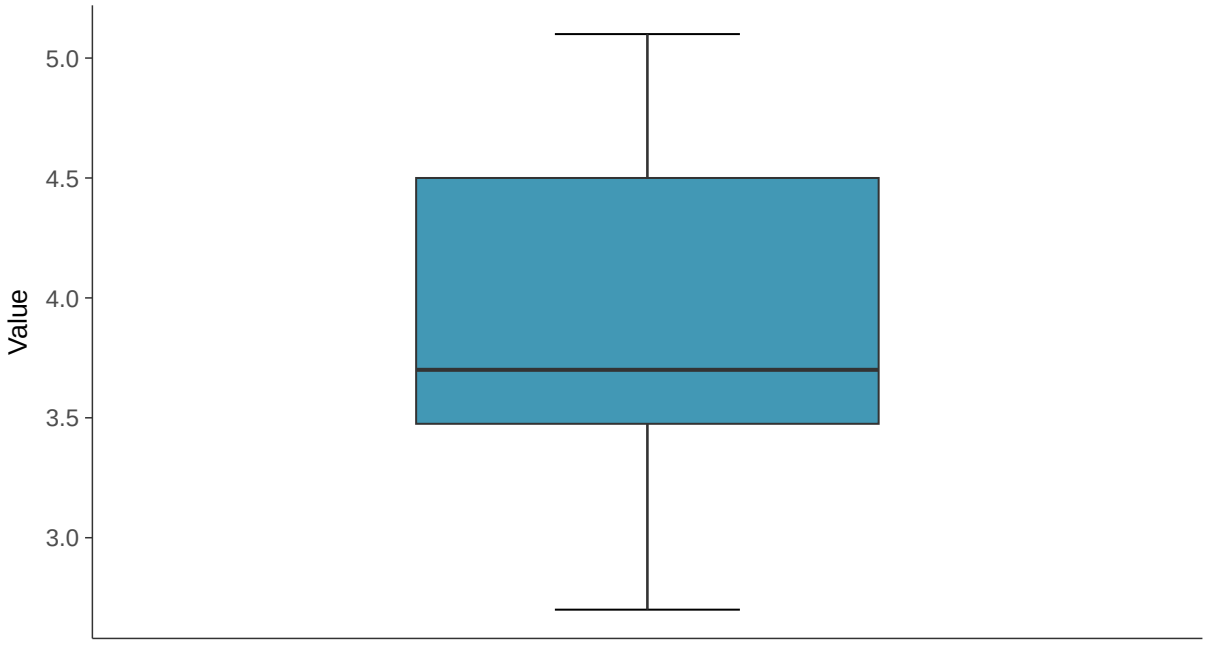
Histogram

Fluoride, MW-18 (mg/L)



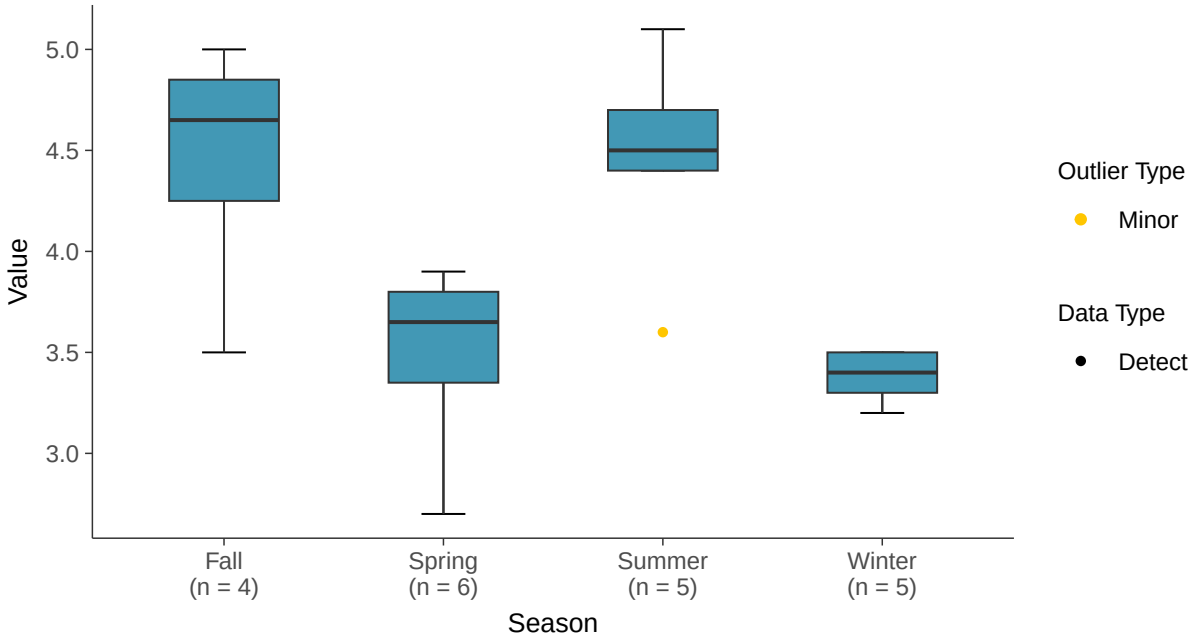
Boxplot

Fluoride, MW-18 (mg/L)



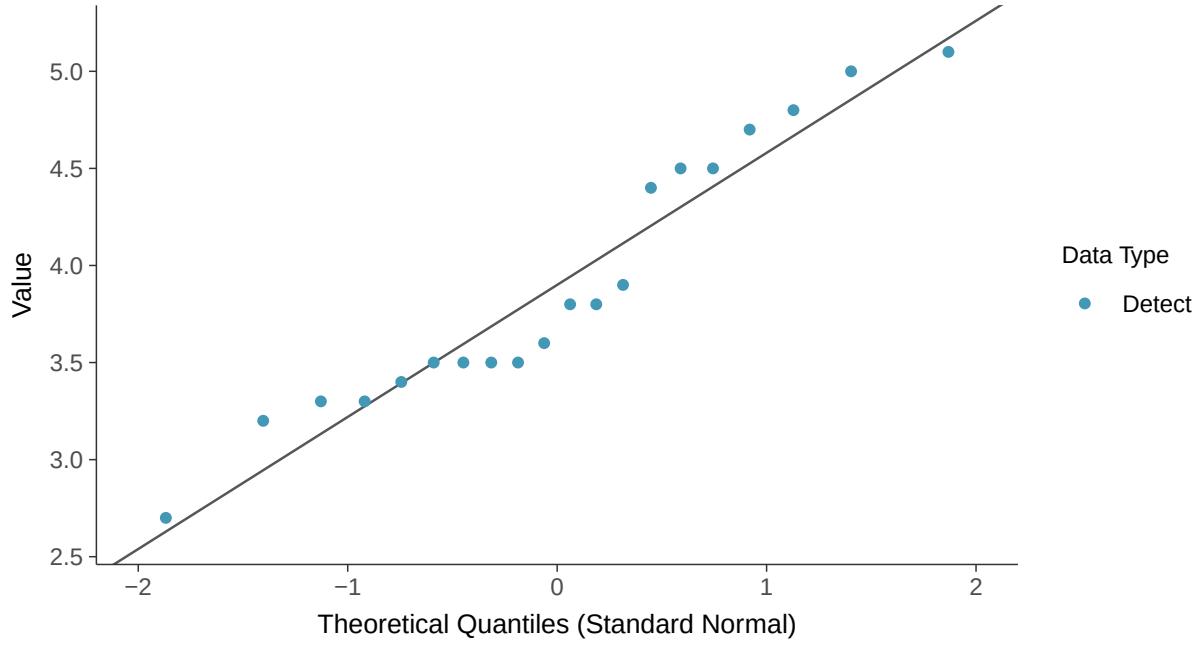
Boxplot by Season

Fluoride, MW-18 (mg/L)



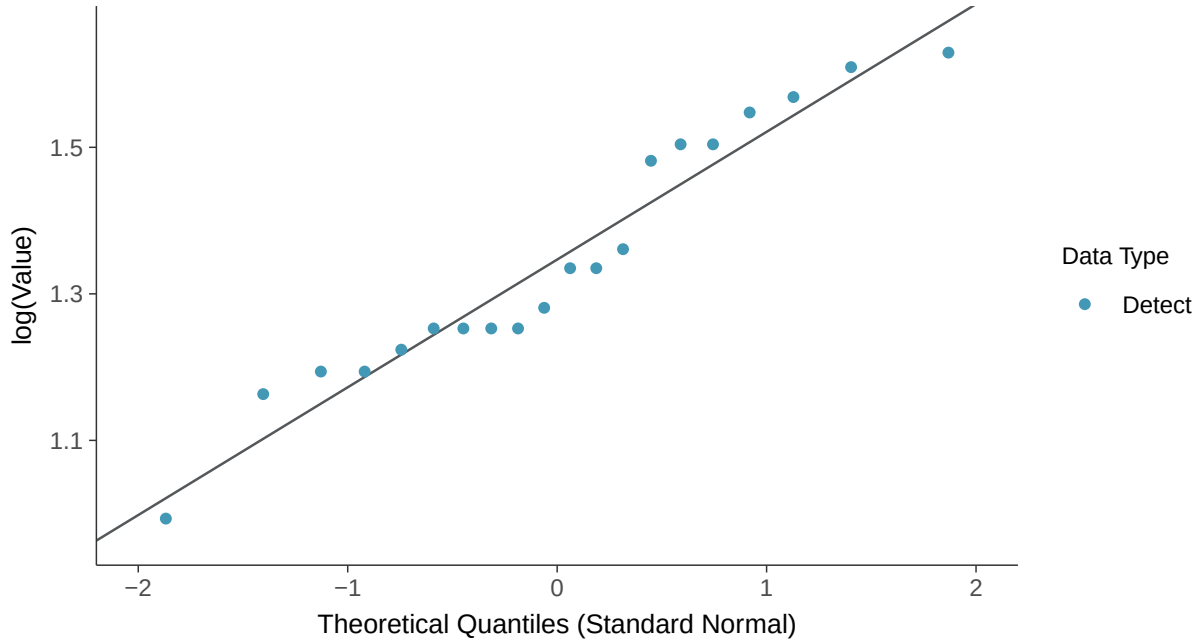
Normal Q-Q plot

Fluoride, MW-18 (mg/L)



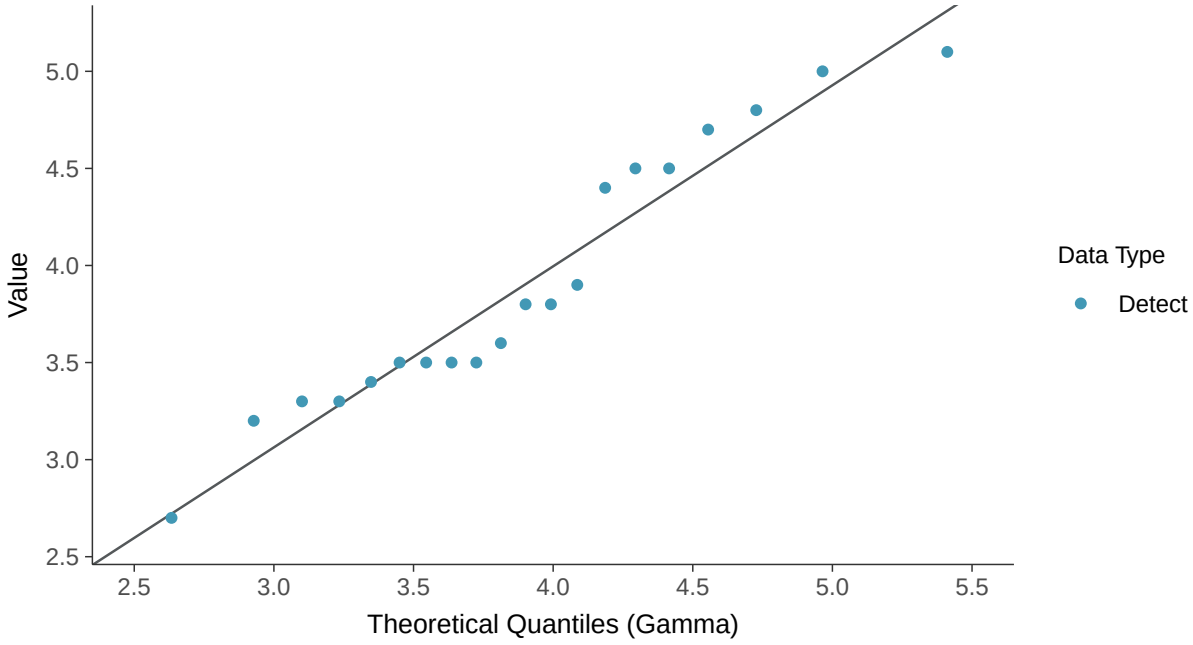
Lognormal Q-Q plot

Fluoride, MW-18 (mg/L)



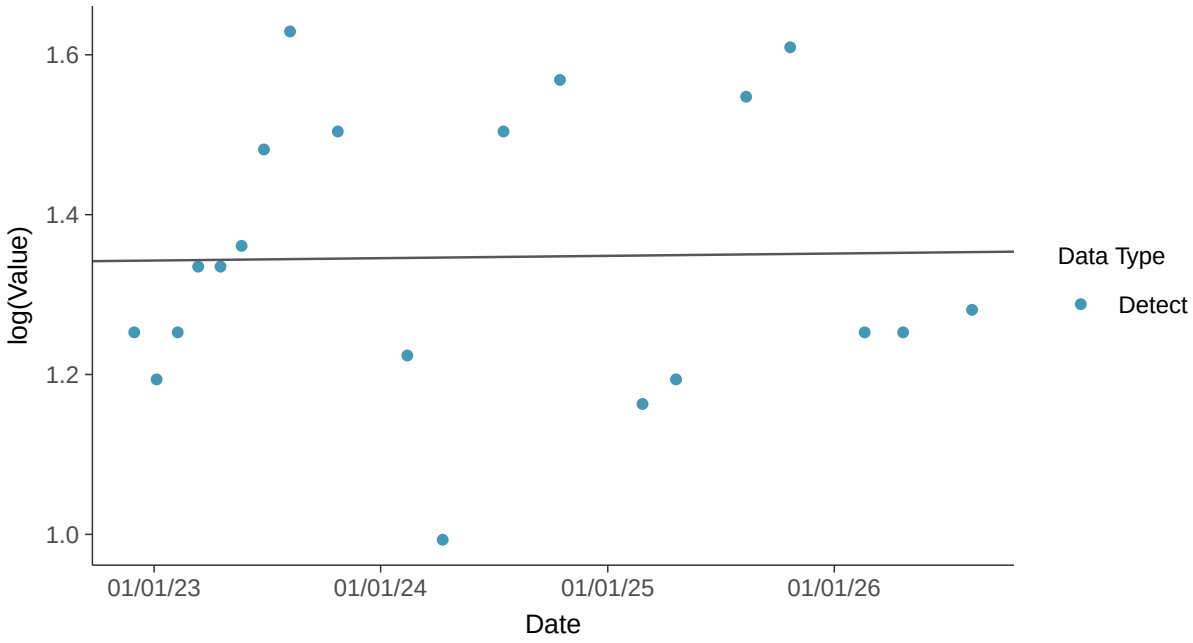
Gamma Q-Q plot

Fluoride, MW-18 (mg/L)



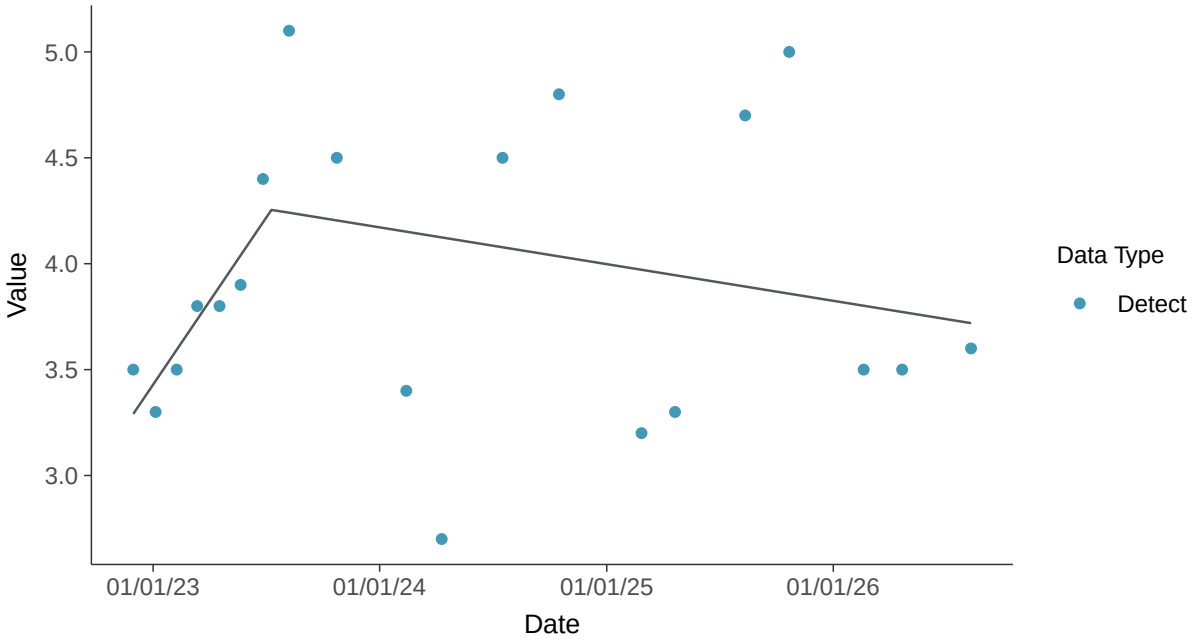
Trend Regression: Lognormal MLE

Fluoride, MW-18 (mg/L)



Trend Regression: Piecewise Linear-Linear

Fluoride, MW-18 (mg/L)

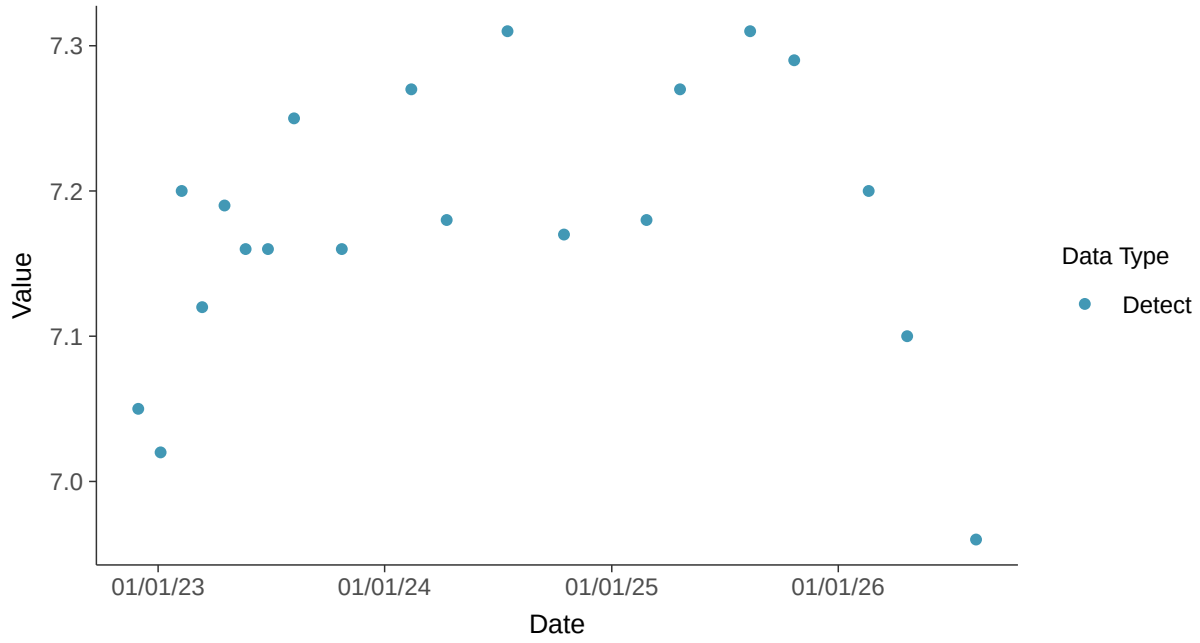


Appendix III: pH (field), MW-18

ID: 28_1_3_120

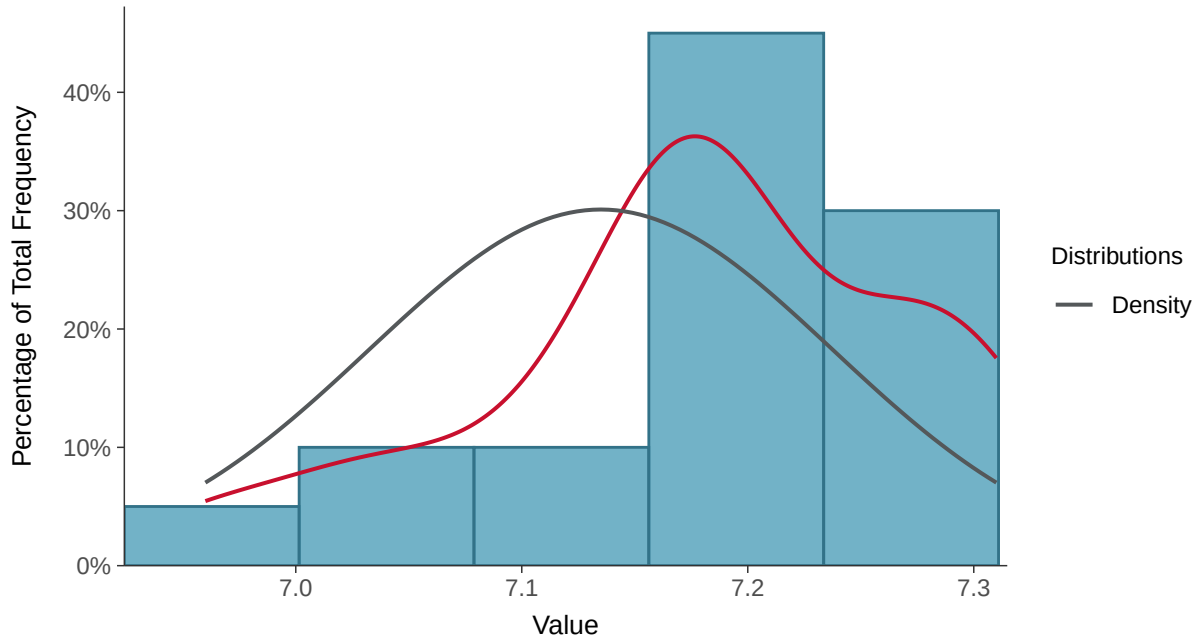
Scatter Plot

pH (field), MW-18 (su)



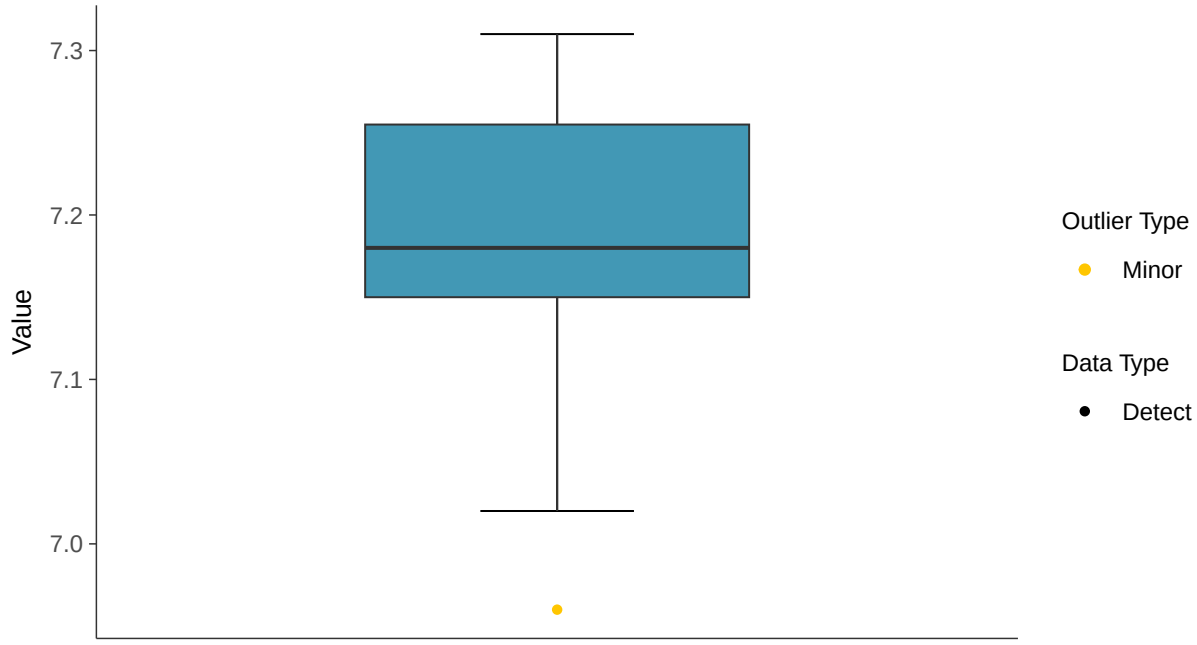
Histogram

pH (field), MW-18 (su)



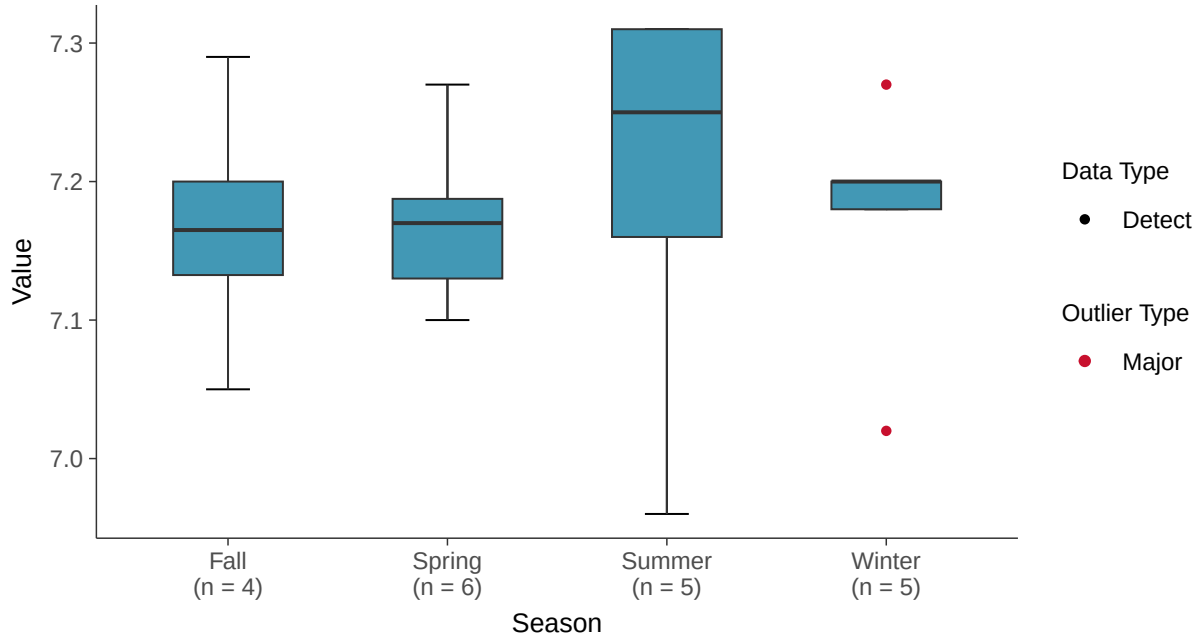
Boxplot

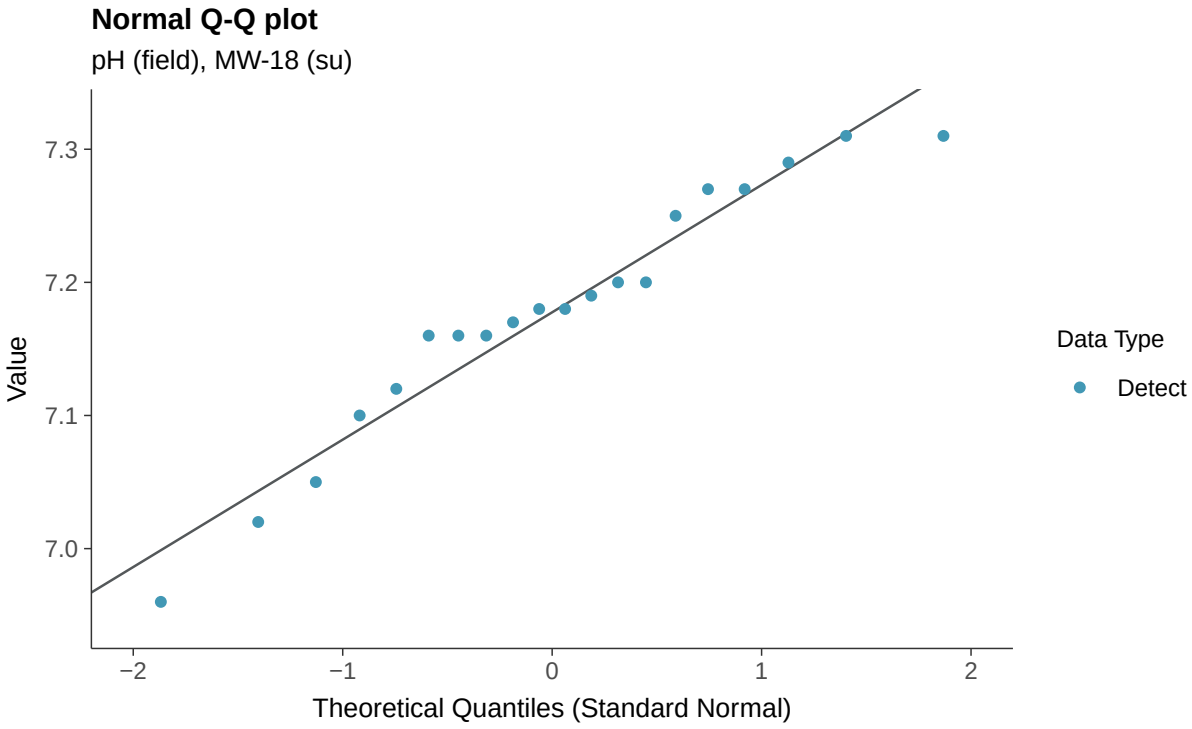
pH (field), MW-18 (su)

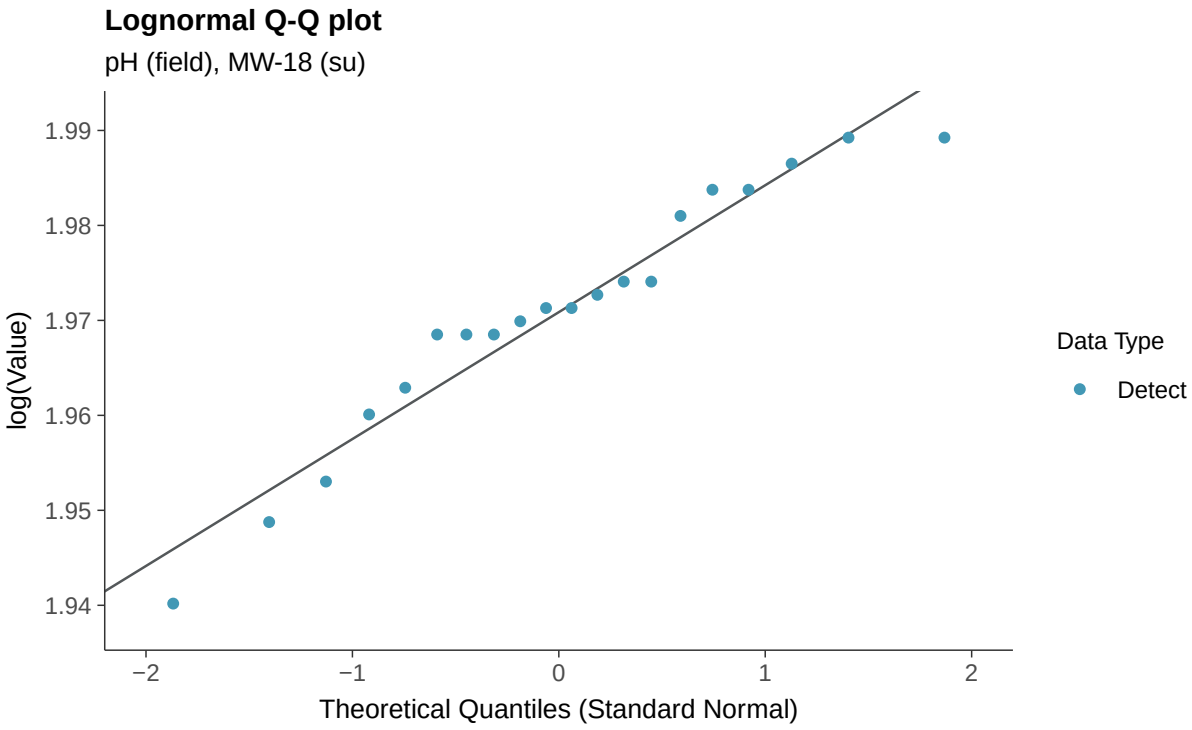


Boxplot by Season

pH (field), MW-18 (su)

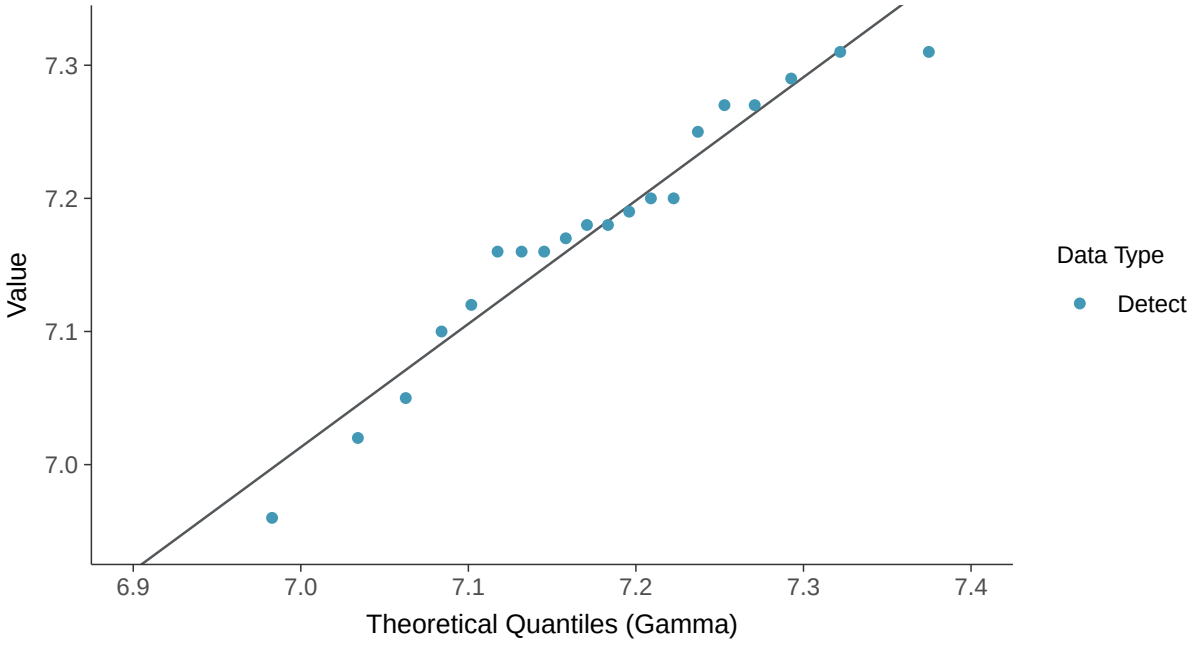



Normal Q-Q plot
pH (field), MW-18 (su)
Value
7.3
7.2
7.1
7.0
−2
−1
0
1
2
Theoretical Quantiles (Standard Normal)
Data Type
Detect


Lognormal Q-Q plot
pH (field), MW-18 (su)
log(Value)
1.99
1.98
1.97
1.96
1.95
1.94
−2
−1
0
1
2
Theoretical Quantiles (Standard Normal)
Data Type
Detect

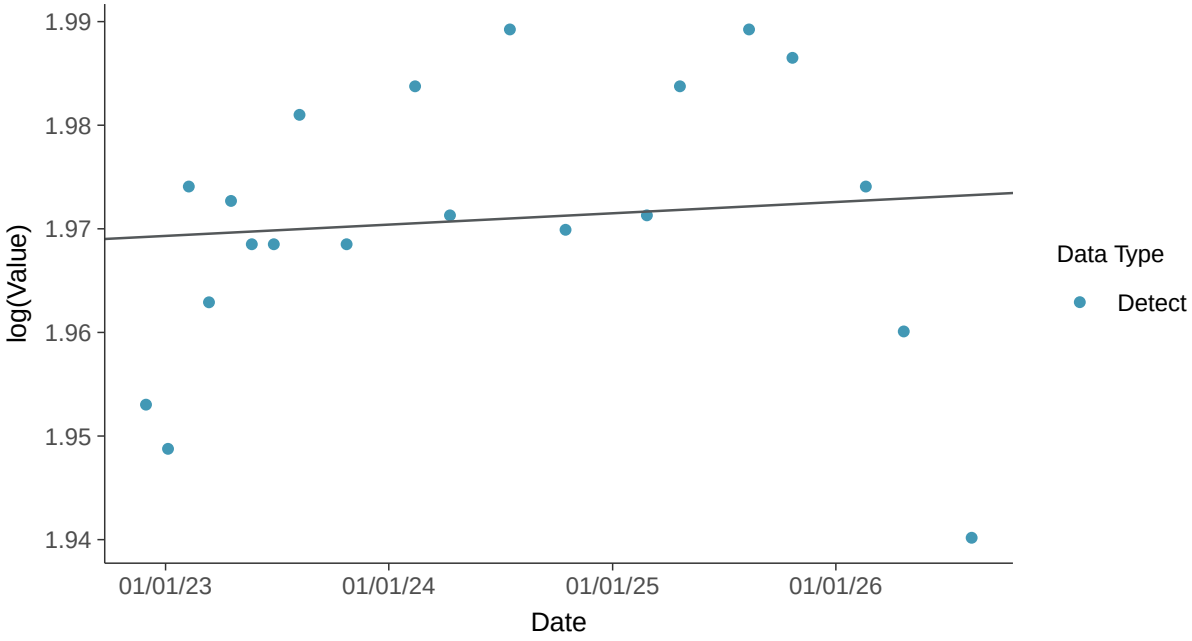
Gamma Q-Q plot

pH (field), MW-18 (su)



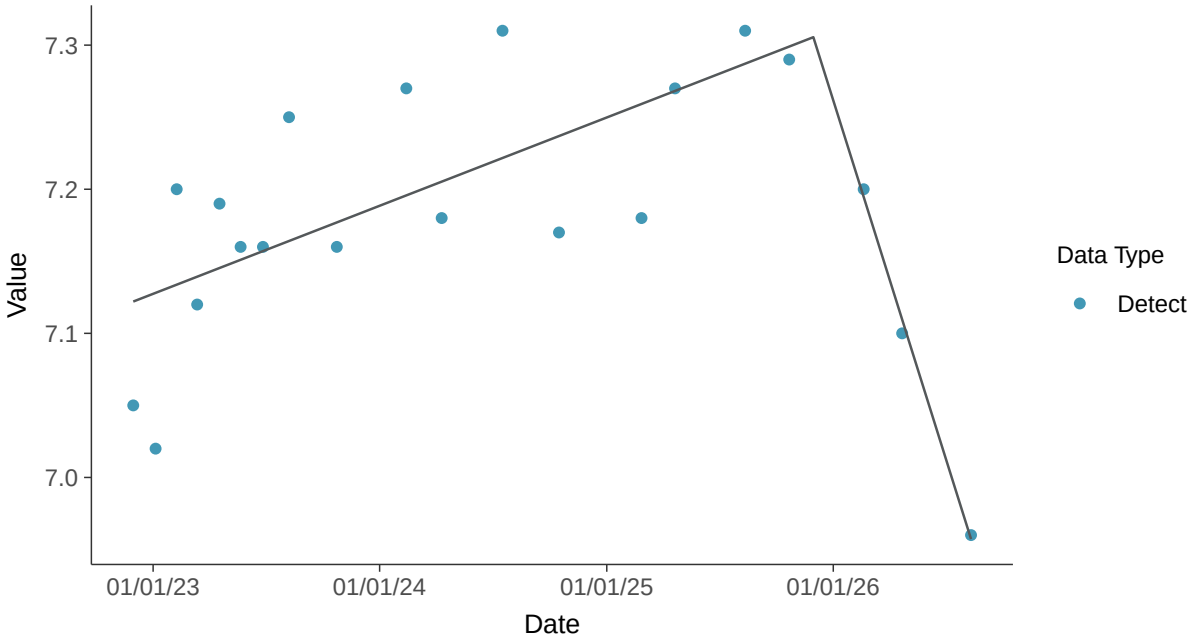
Trend Regression: Lognormal MLE

pH (field), MW-18 (su)



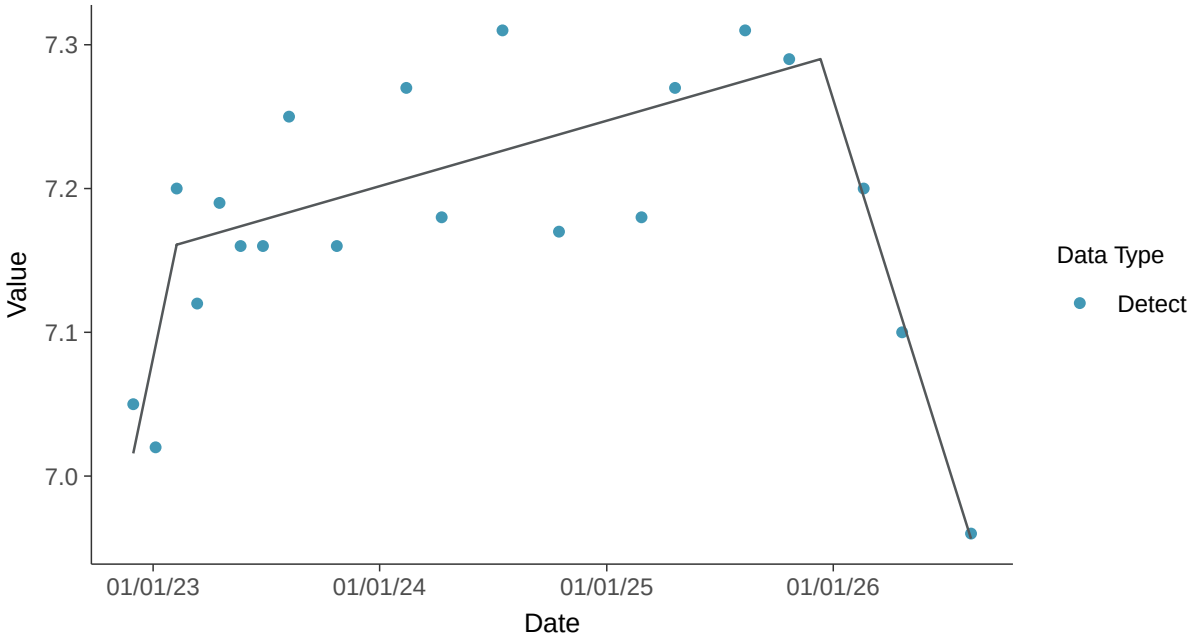
Trend Regression: Piecewise Linear-Linear

pH (field), MW-18 (su)



Trend Regression: Piecewise Linear-Linear-Linear

pH (field), MW-18 (su)

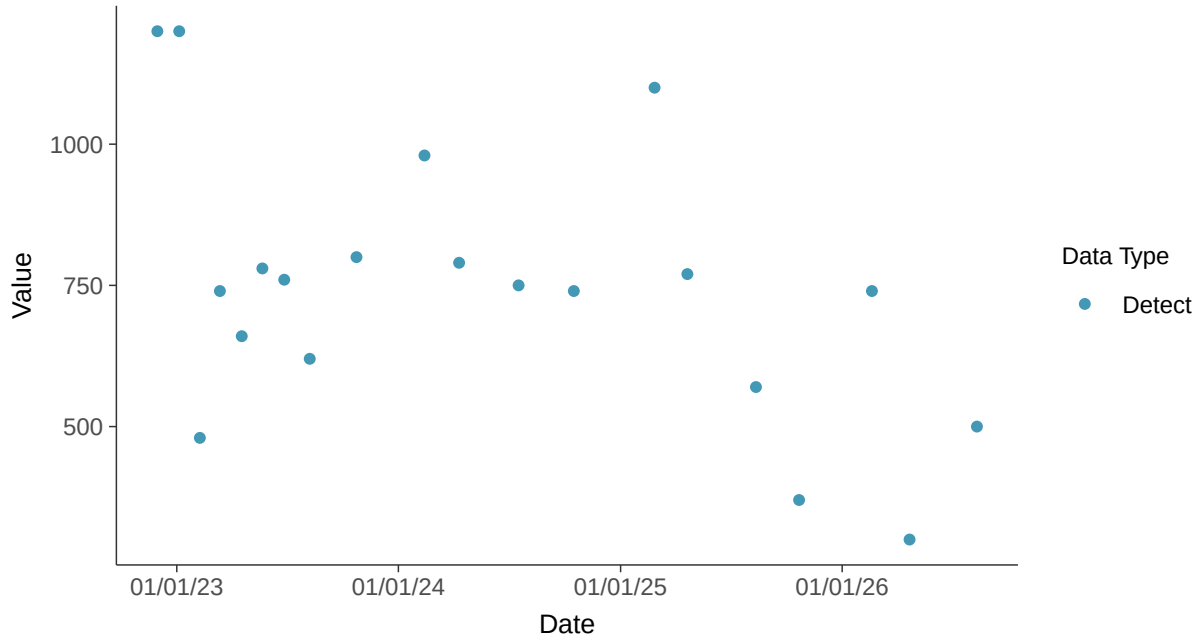


Appendix III: Sulfate (as SO4), MW-18

ID: 28_1_3_124

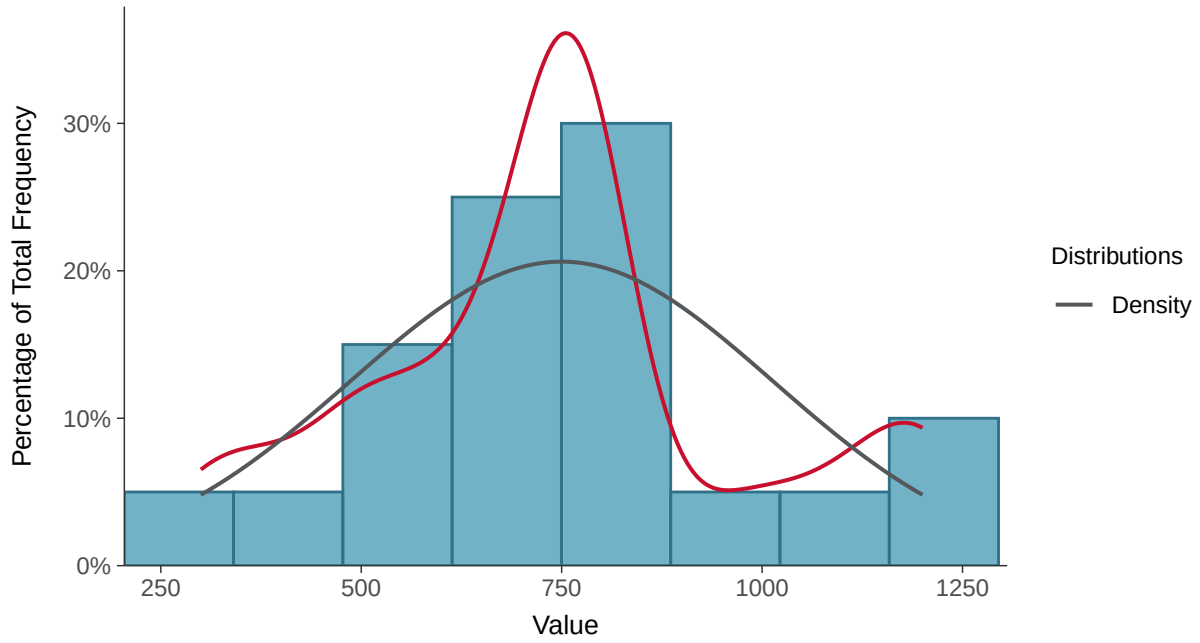
Scatter Plot

Sulfate (as SO4), MW-18 (mg/L)



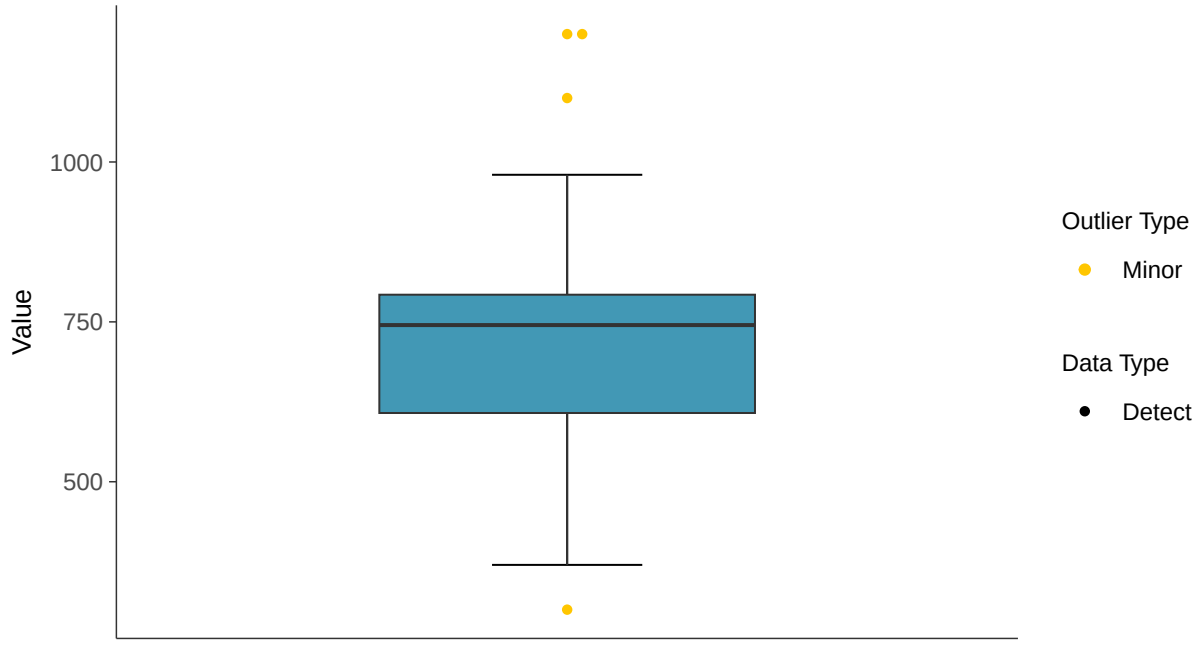
Histogram

Sulfate (as SO4), MW-18 (mg/L)



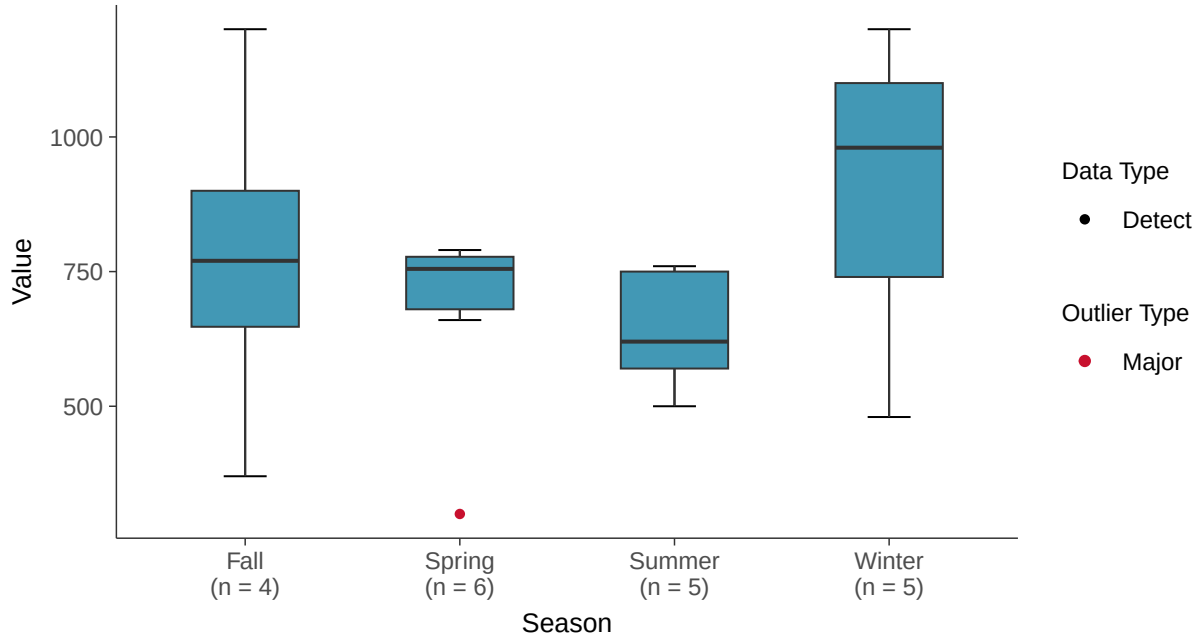
Boxplot

Sulfate (as SO4), MW-18 (mg/L)



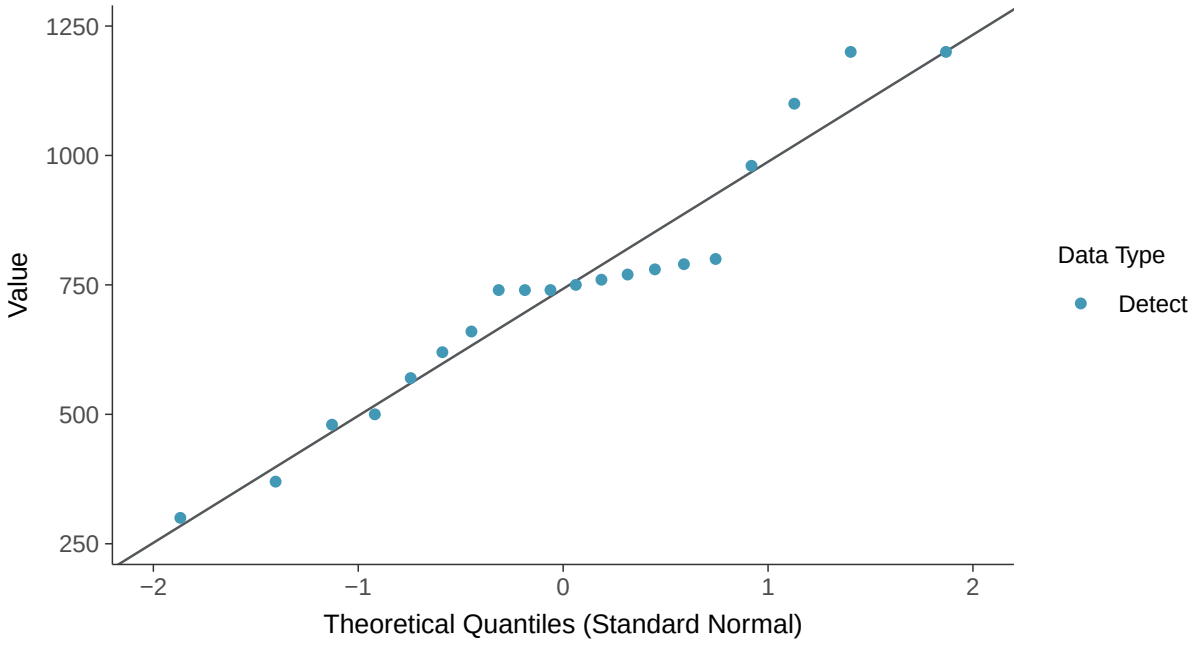
Boxplot by Season

Sulfate (as SO4), MW-18 (mg/L)



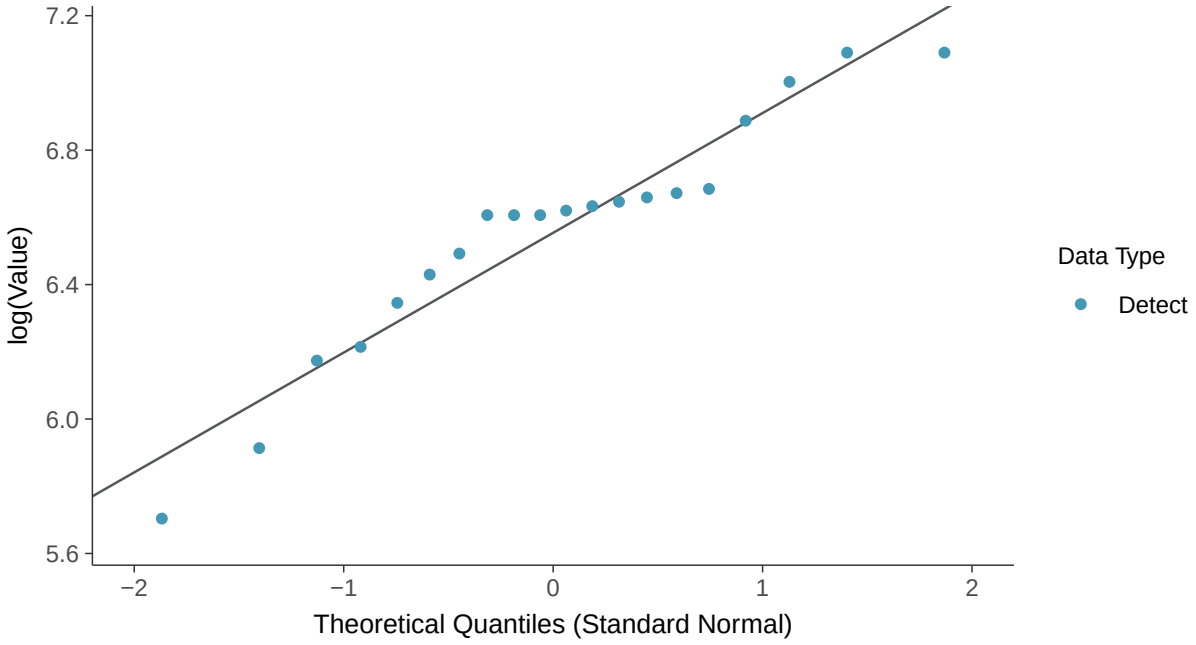
Normal Q-Q plot

Sulfate (as SO4), MW-18 (mg/L)



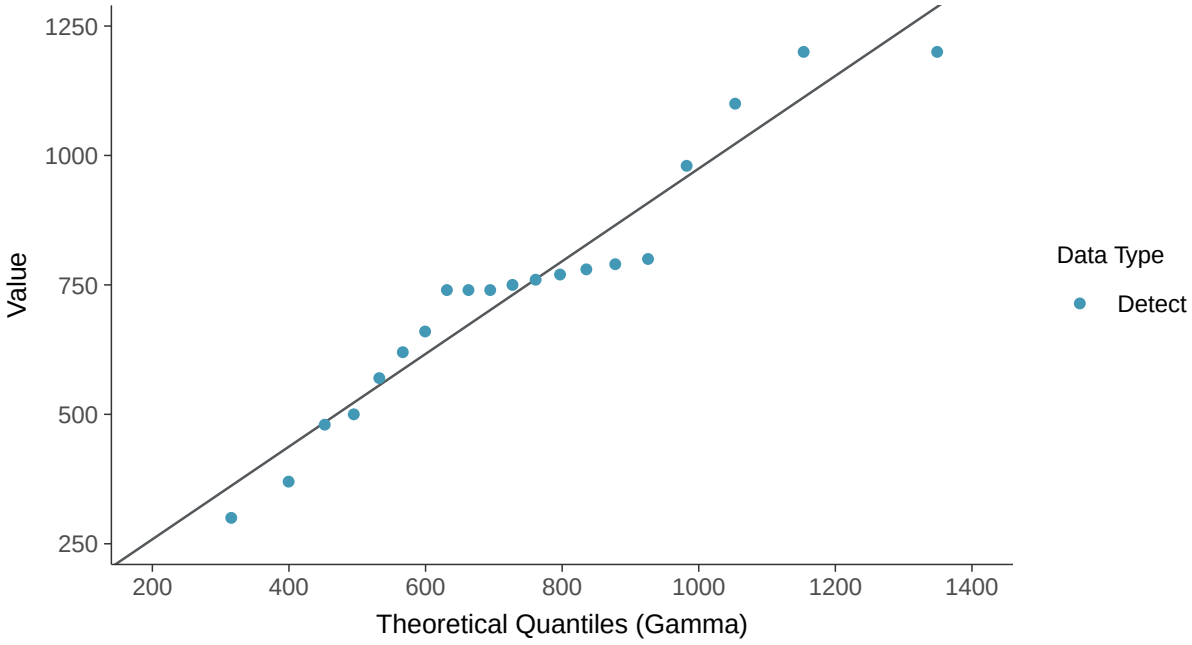
Lognormal Q-Q plot

Sulfate (as SO4), MW-18 (mg/L)



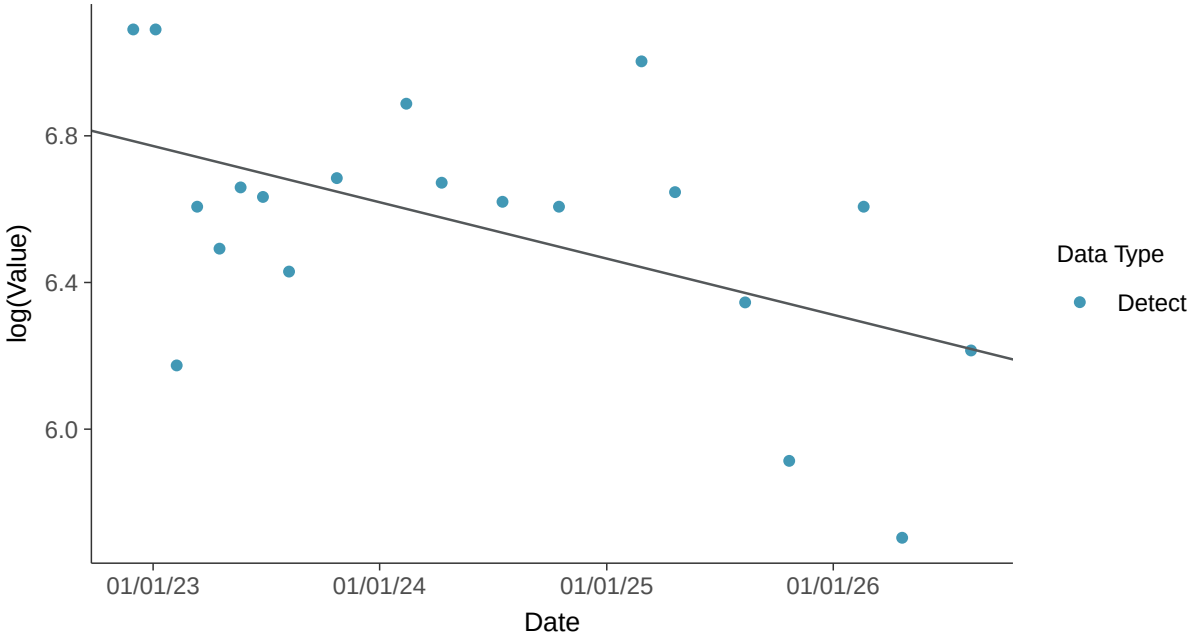
Gamma Q-Q plot

Sulfate (as SO4), MW-18 (mg/L)



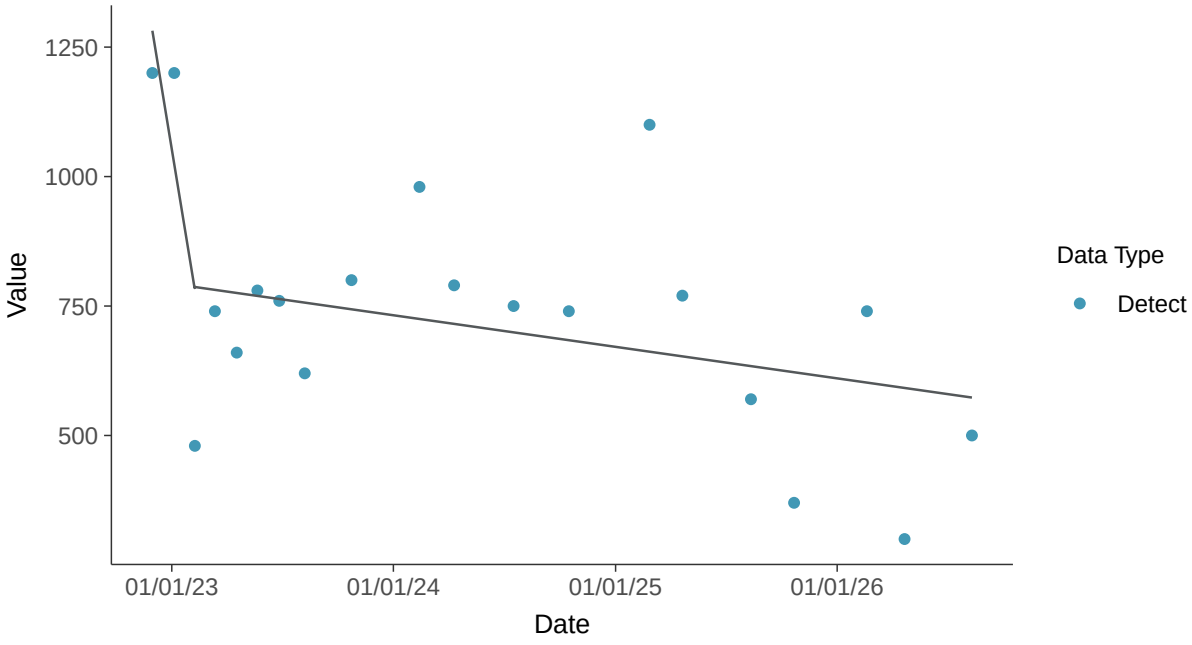
Trend Regression: Lognormal MLE

Sulfate (as SO4), MW-18 (mg/L)



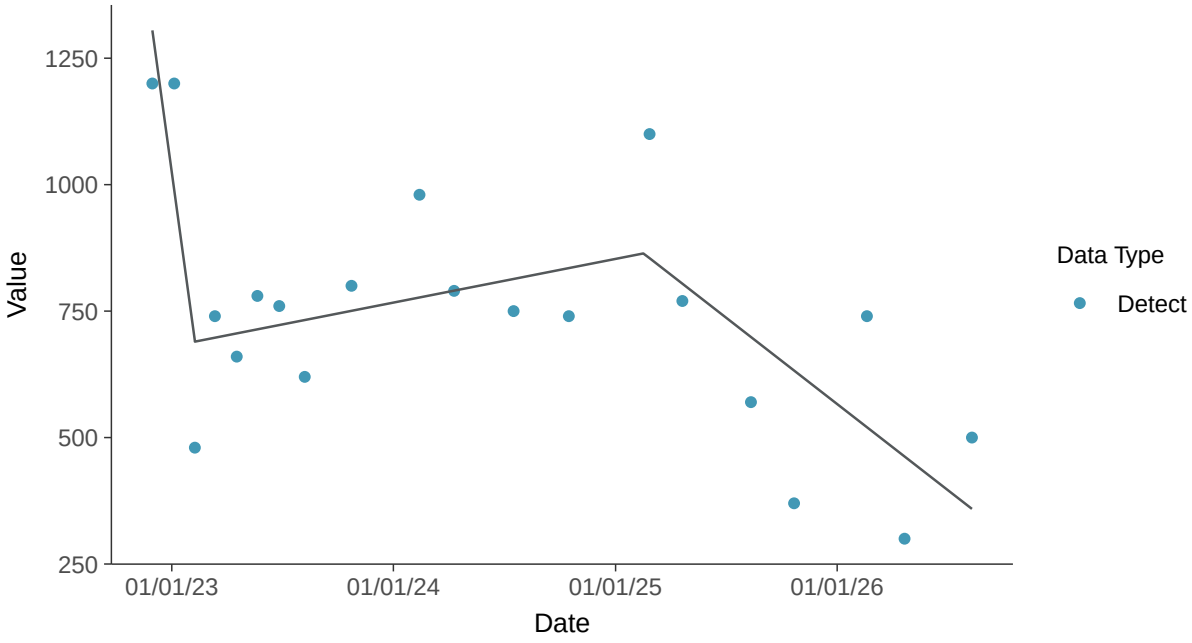
Trend Regression: Piecewise Linear-Linear

Sulfate (as SO4), MW-18 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Sulfate (as SO4), MW-18 (mg/L)

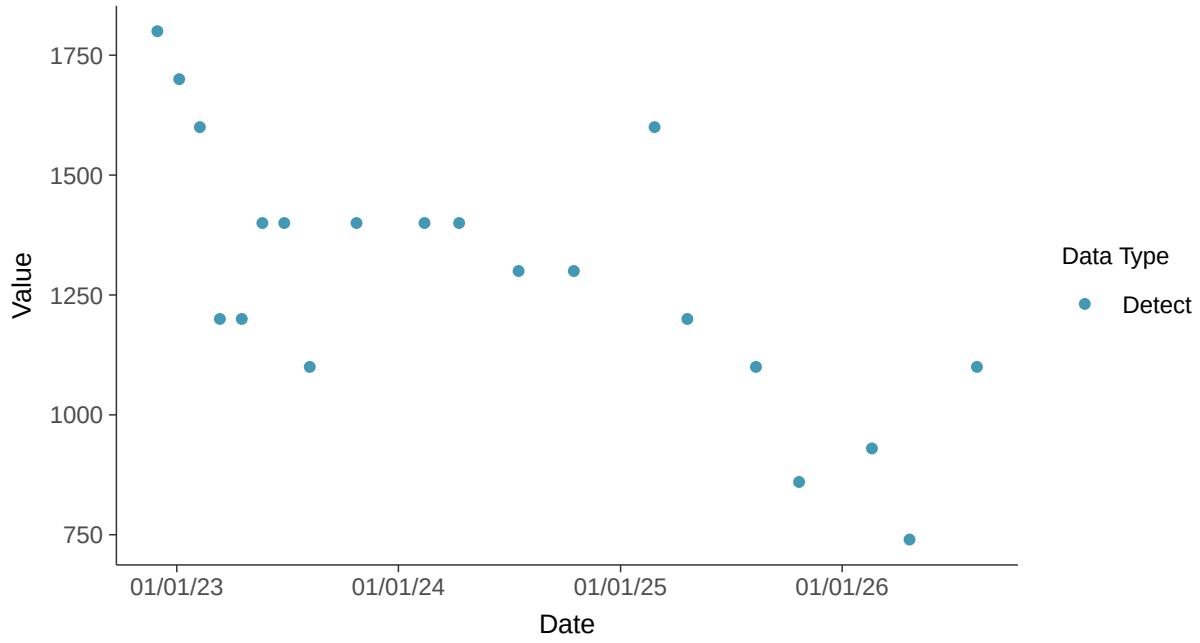


Appendix III: Total Dissolved Solids, MW-18

ID: 28_1_3_126

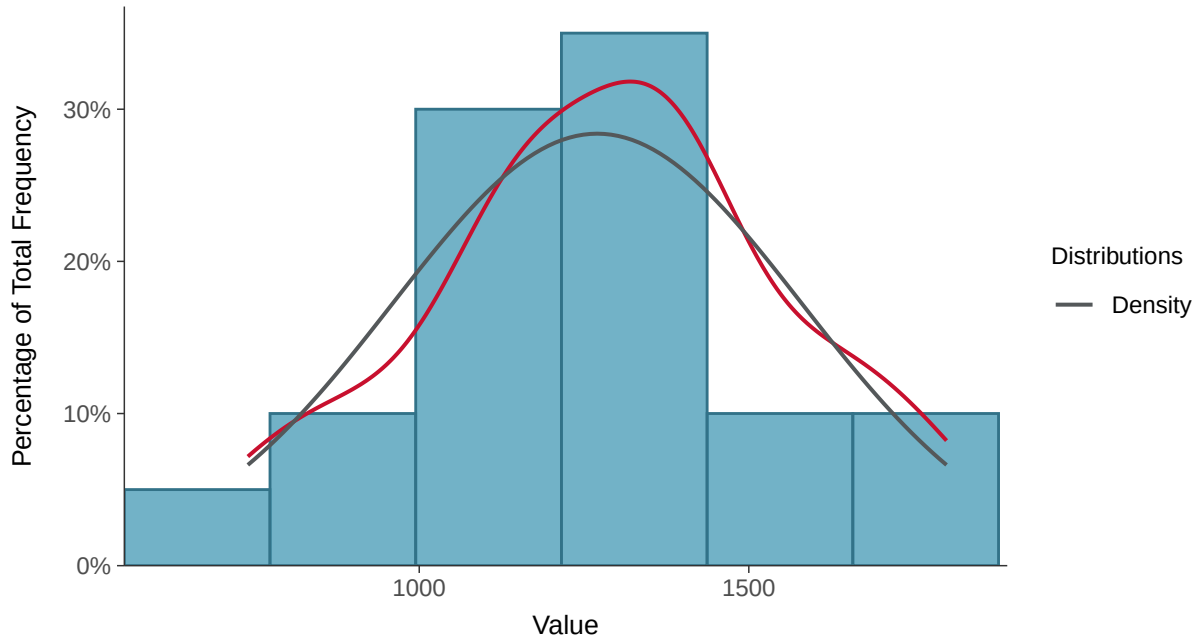
Scatter Plot

Total Dissolved Solids, MW-18 (mg/L)



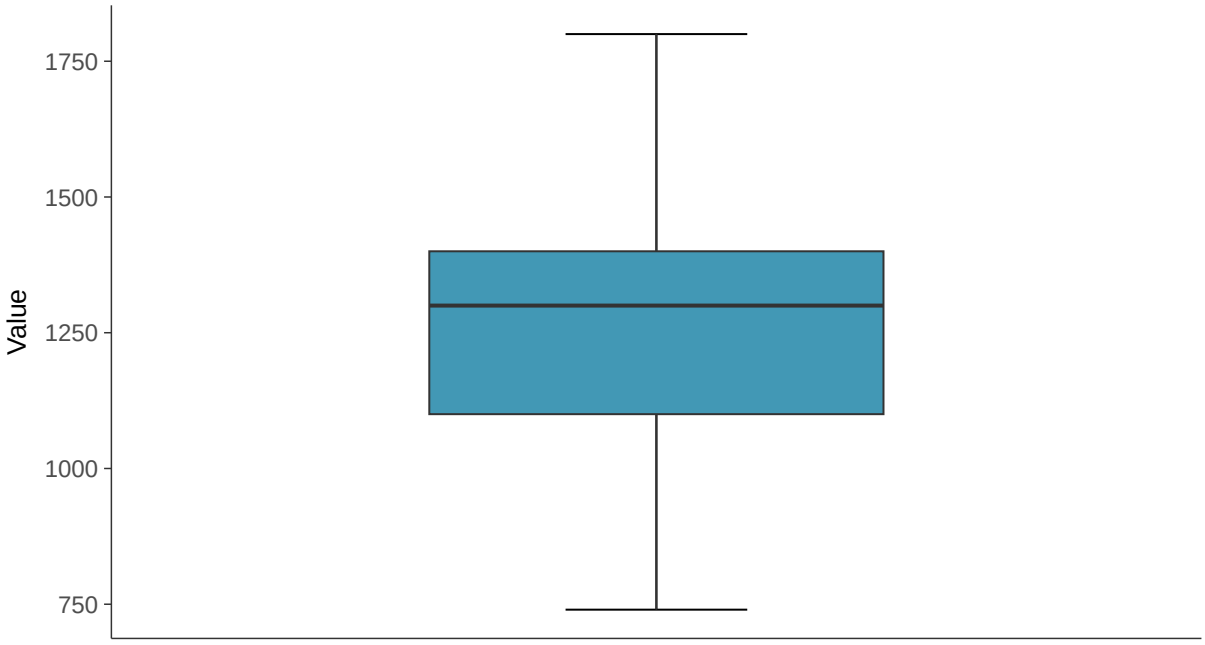
Histogram

Total Dissolved Solids, MW-18 (mg/L)



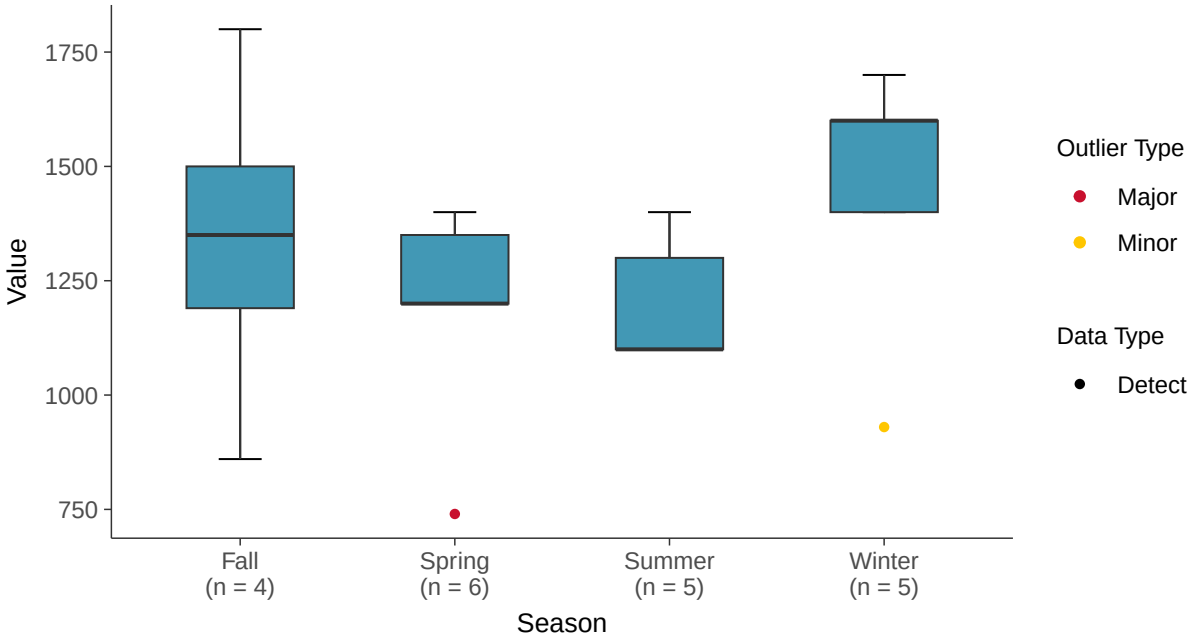
Boxplot

Total Dissolved Solids, MW-18 (mg/L)



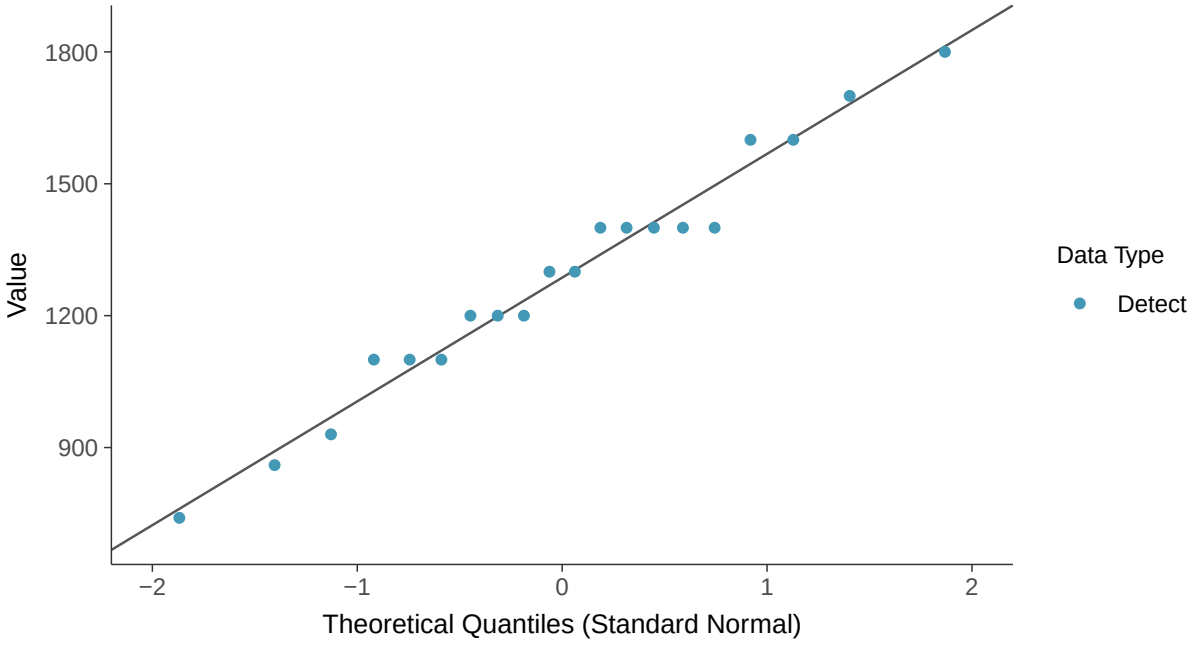
Boxplot by Season

Total Dissolved Solids, MW-18 (mg/L)



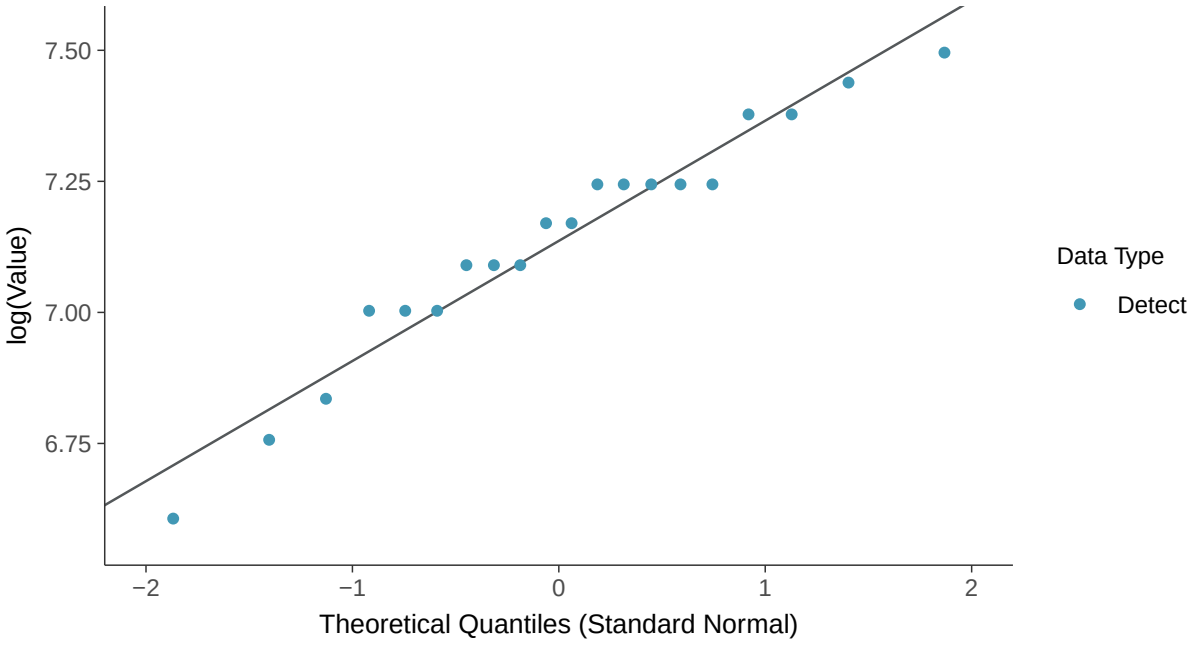
Normal Q-Q plot

Total Dissolved Solids, MW-18 (mg/L)



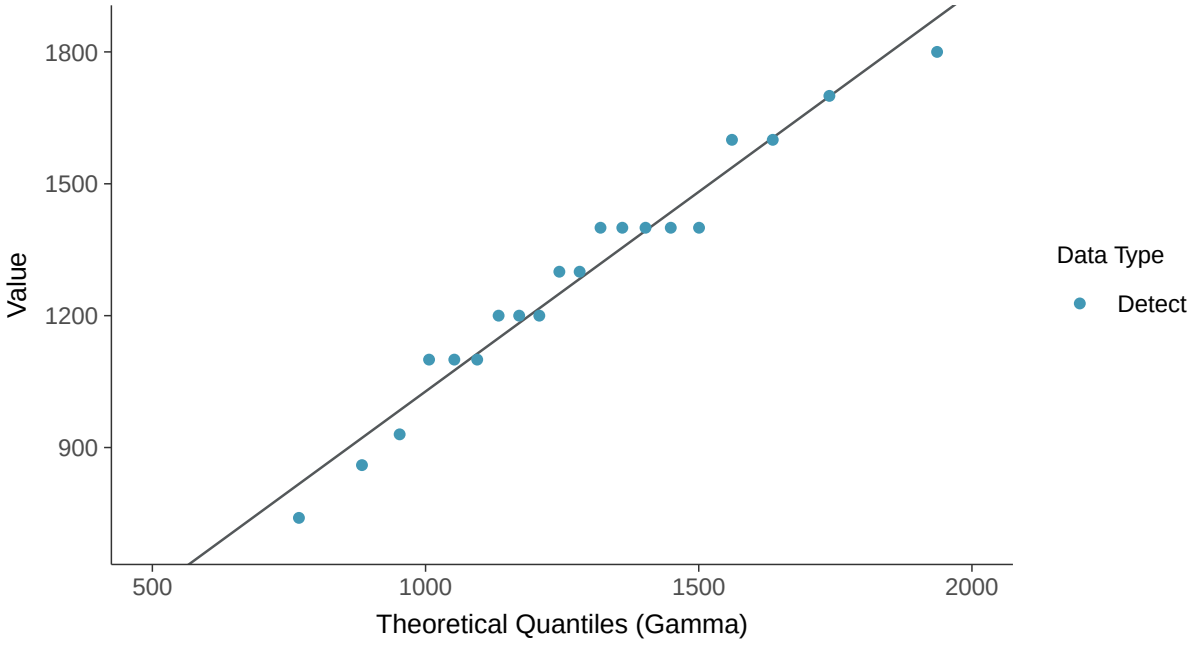
Lognormal Q-Q plot

Total Dissolved Solids, MW-18 (mg/L)



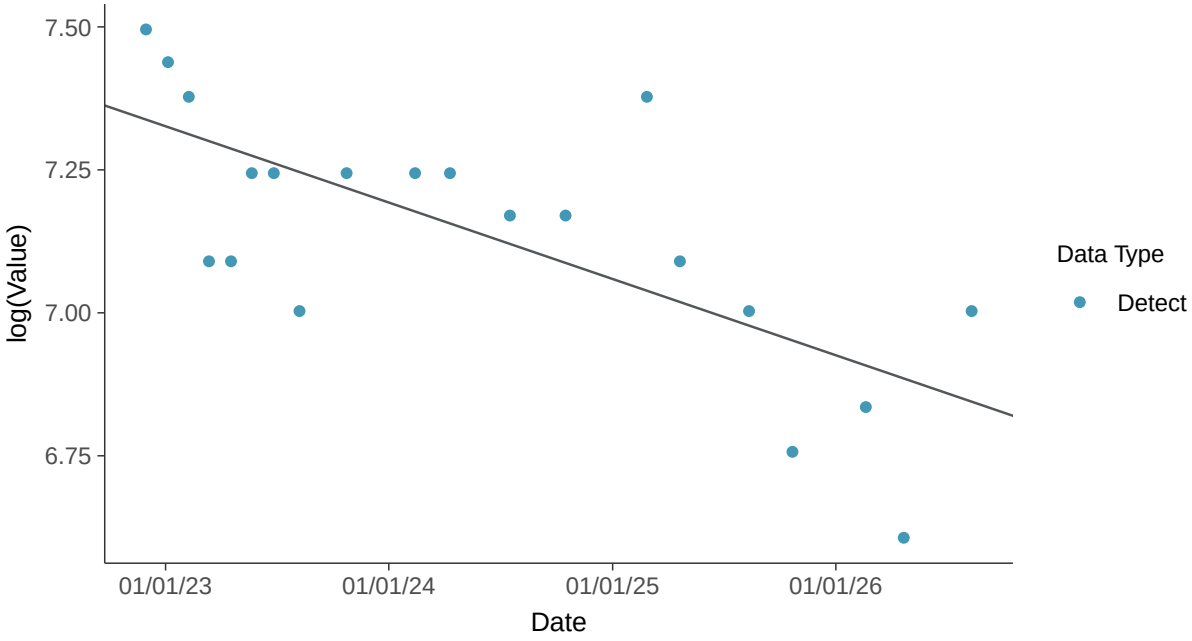
Gamma Q-Q plot

Total Dissolved Solids, MW-18 (mg/L)



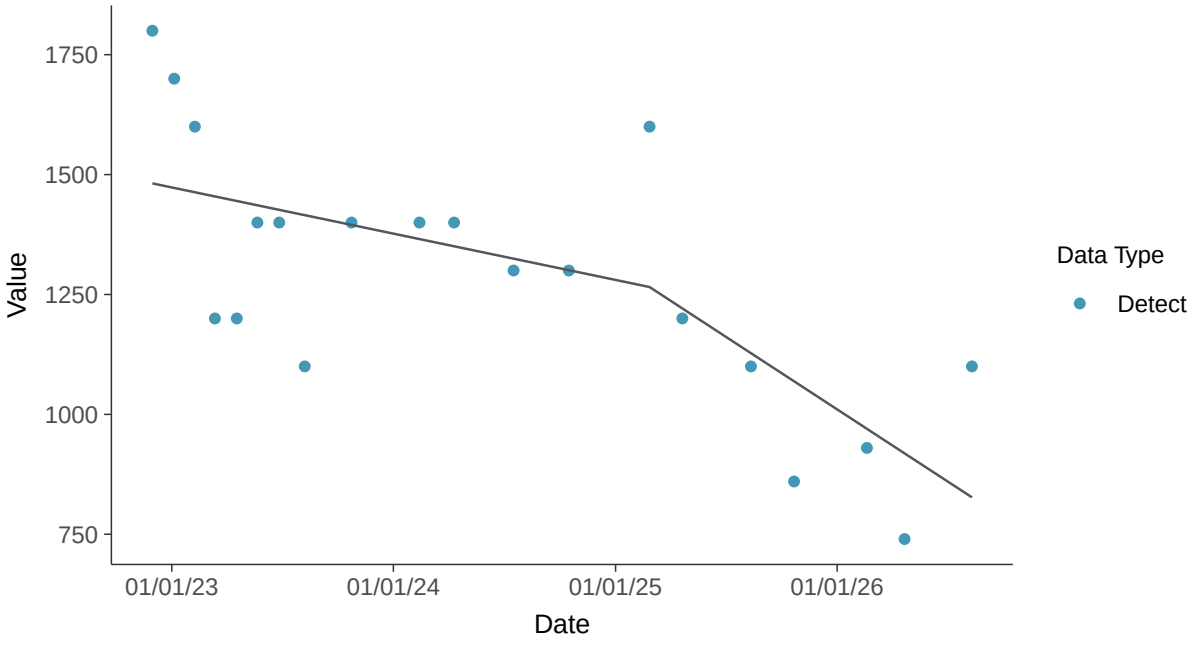
Trend Regression: Lognormal MLE

Total Dissolved Solids, MW-18 (mg/L)



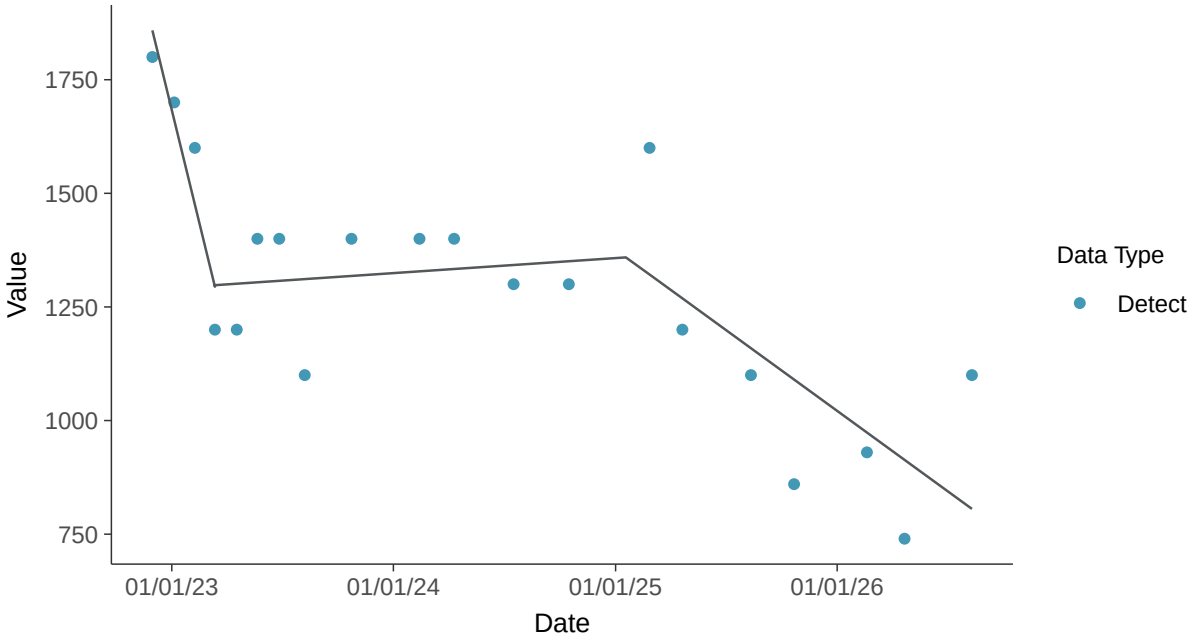
Trend Regression: Piecewise Linear-Linear

Total Dissolved Solids, MW-18 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Total Dissolved Solids, MW-18 (mg/L)

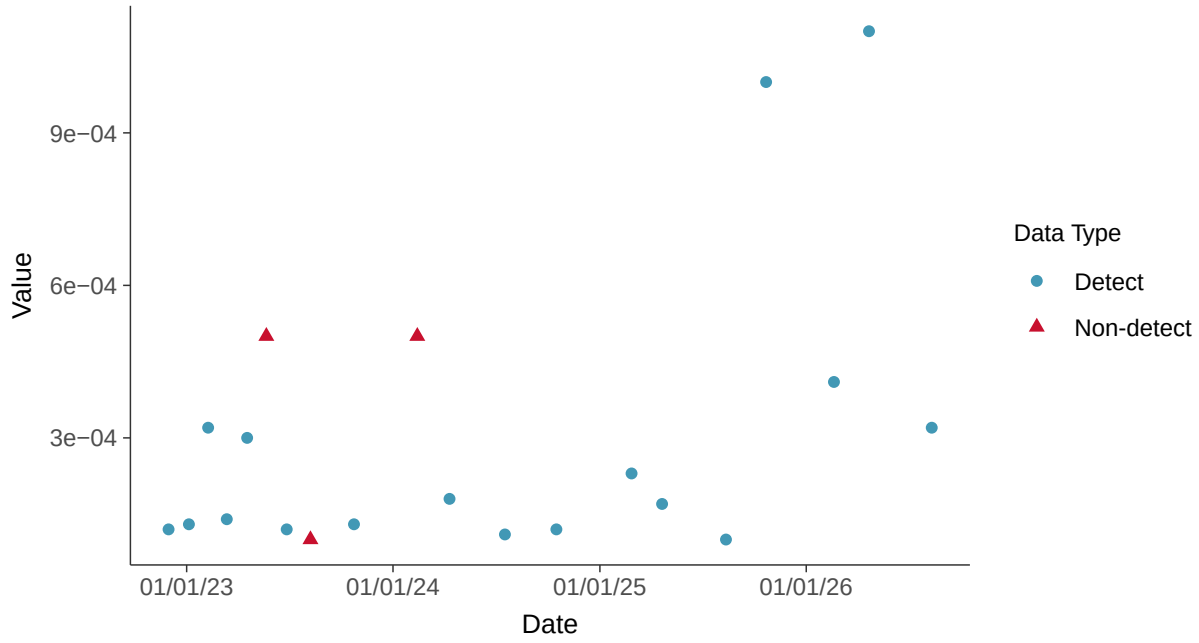


Appendix IV: Antimony, MW-18

ID: 28_1_4_101

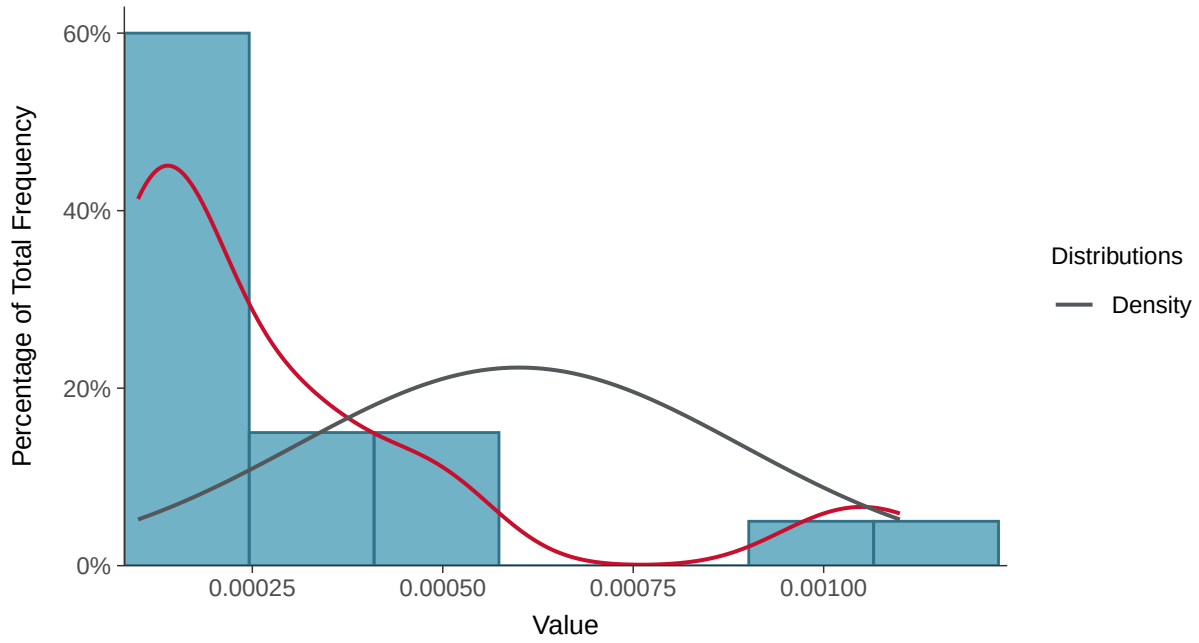
Scatter Plot

Antimony, MW-18 (mg/L)



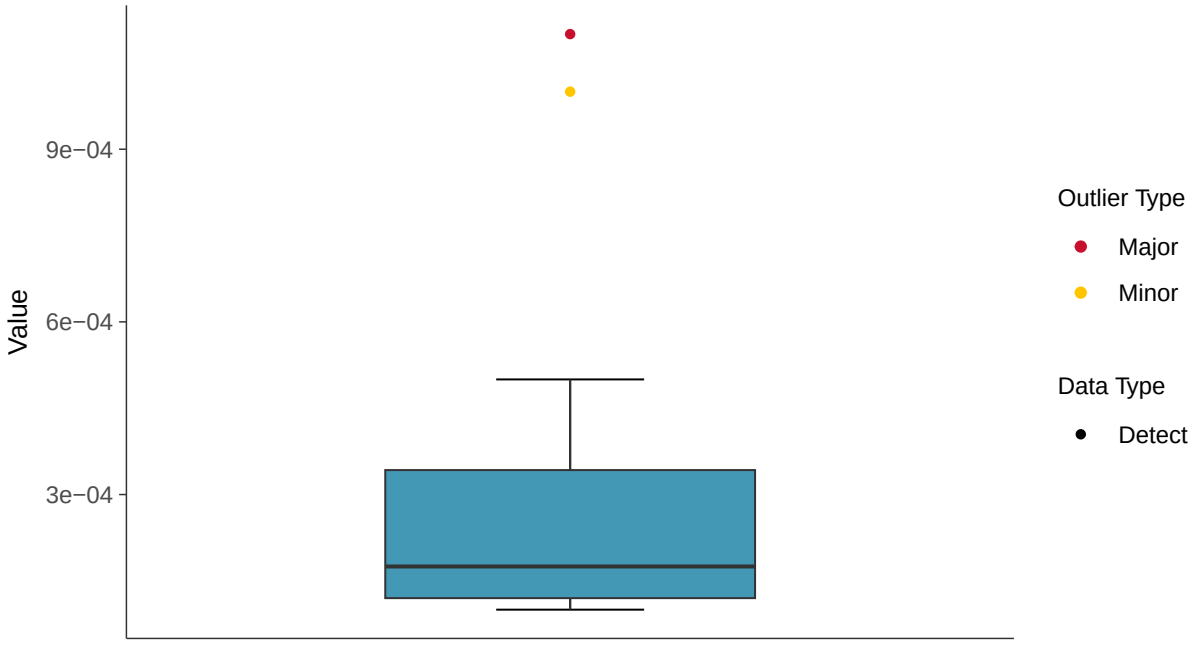
Histogram

Antimony, MW-18 (mg/L)



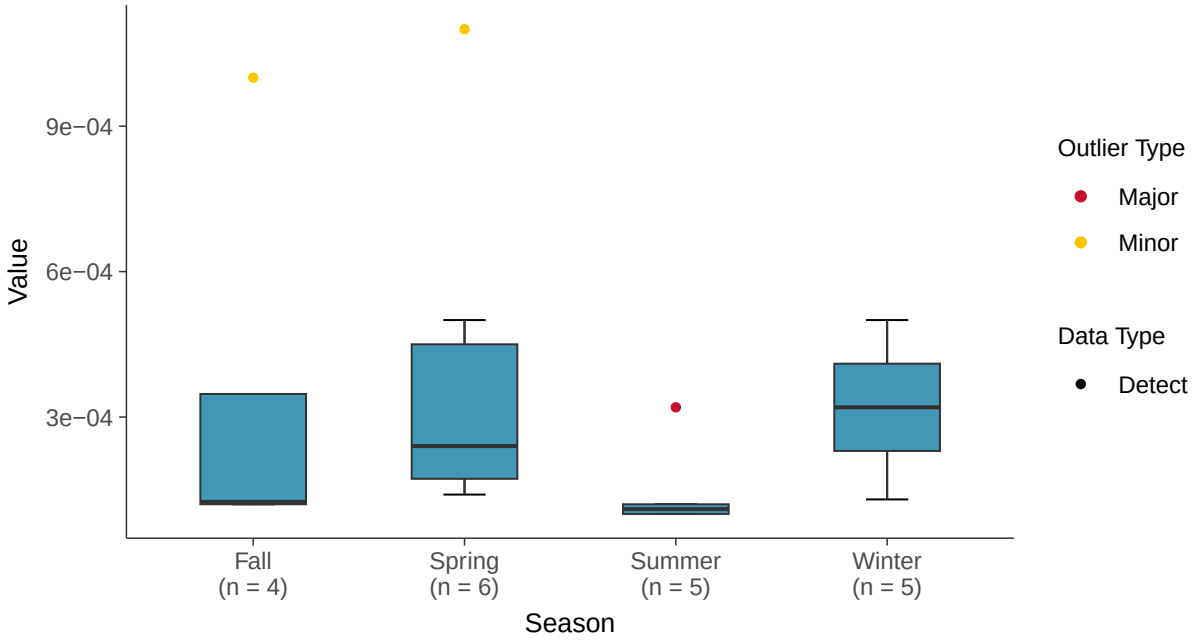
Boxplot

Antimony, MW-18 (mg/L)



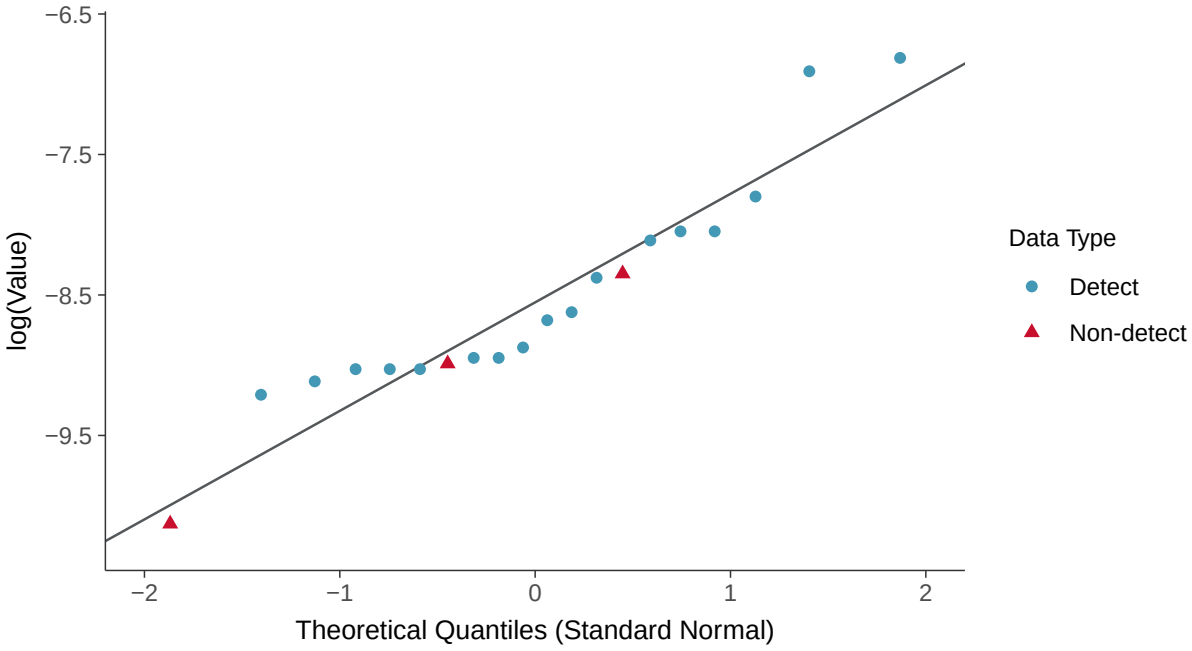
Boxplot by Season

Antimony, MW-18 (mg/L)



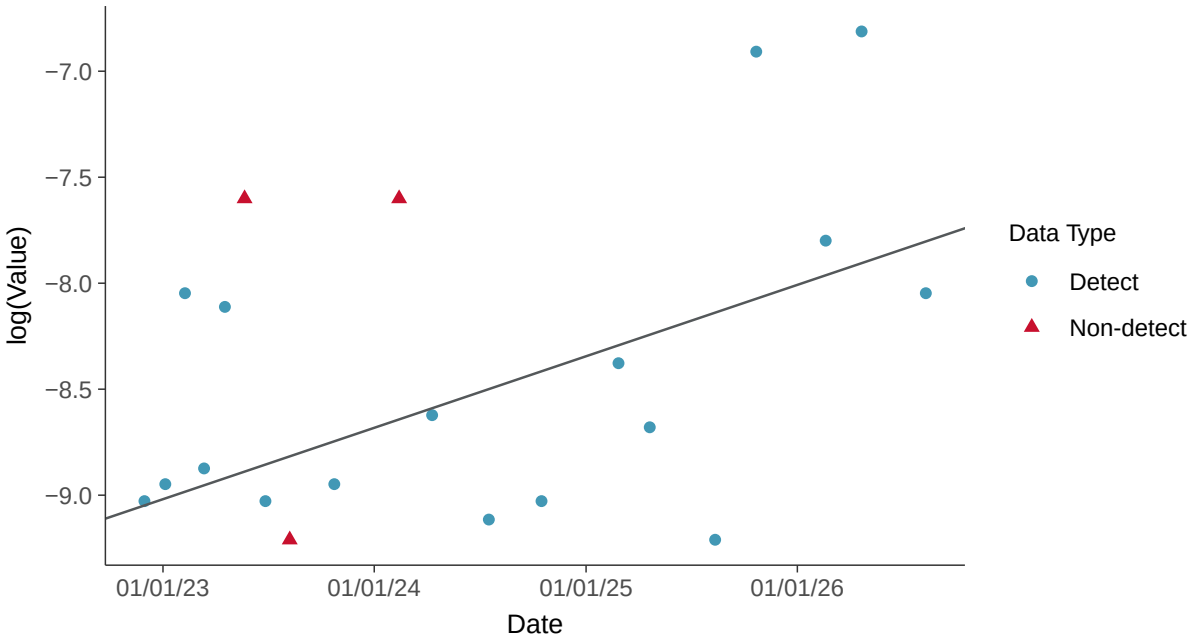
Lognormal Q-Q plot using ROS Imputed Estimates

Antimony, MW-18 (mg/L)



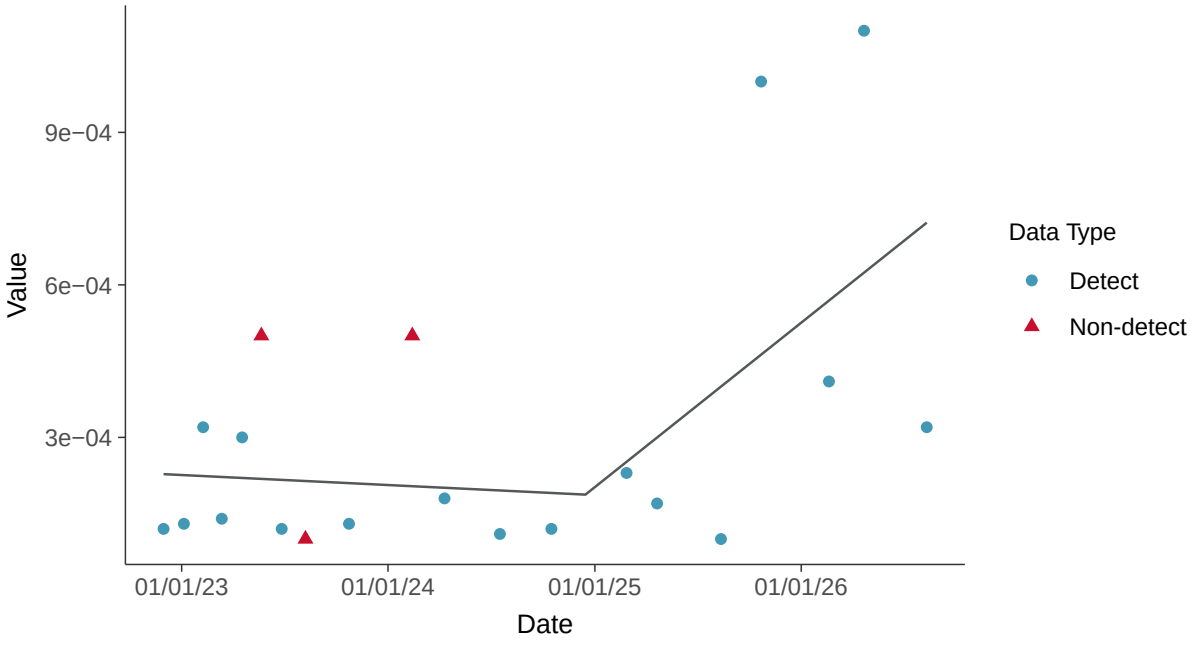
Trend Regression: Lognormal MLE

Antimony, MW-18 (mg/L)



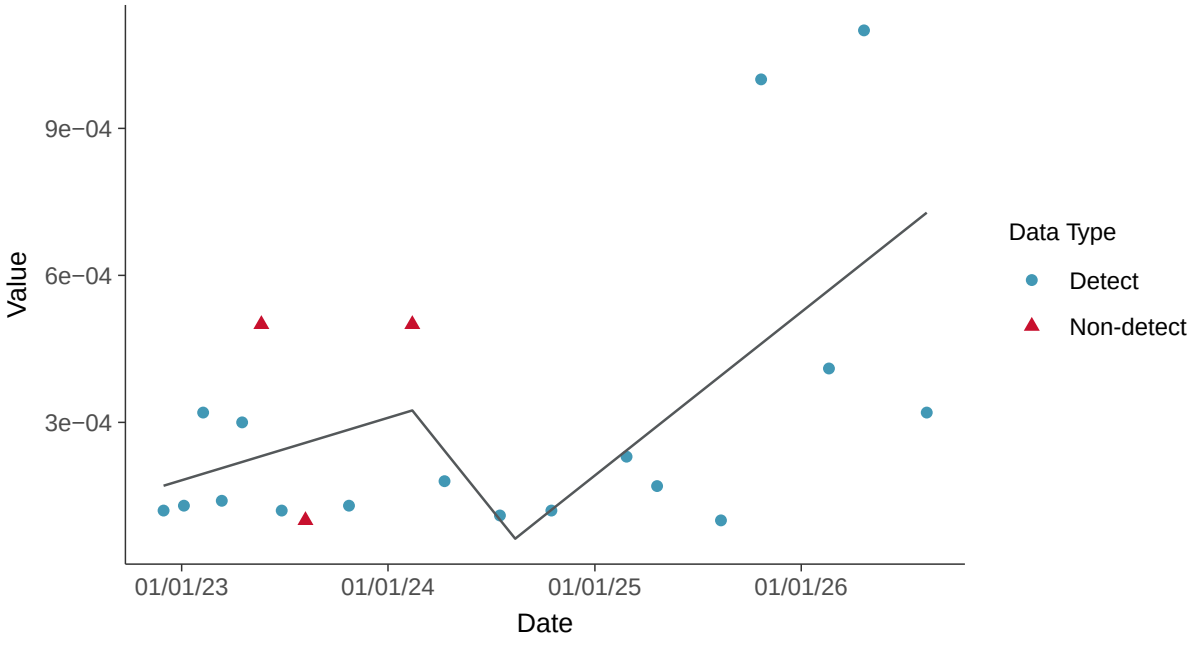
Trend Regression: Piecewise Linear-Linear

Antimony, MW-18 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Antimony, MW-18 (mg/L)

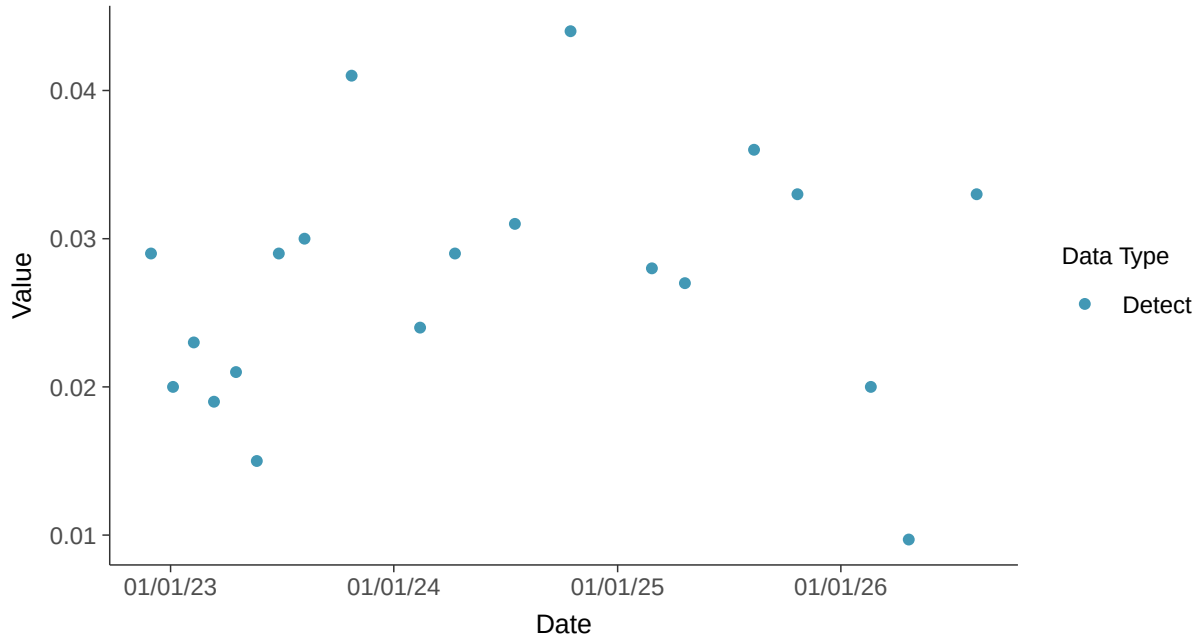


Appendix IV: Arsenic, MW-18

ID: 28_1_4_102

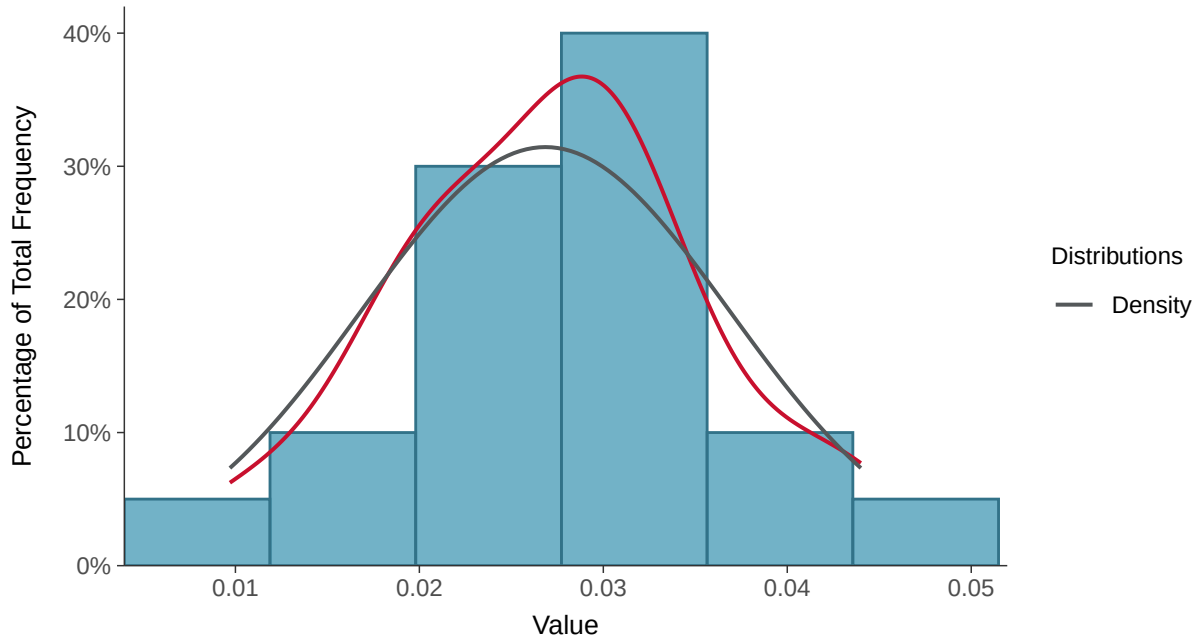
Scatter Plot

Arsenic, MW-18 (mg/L)



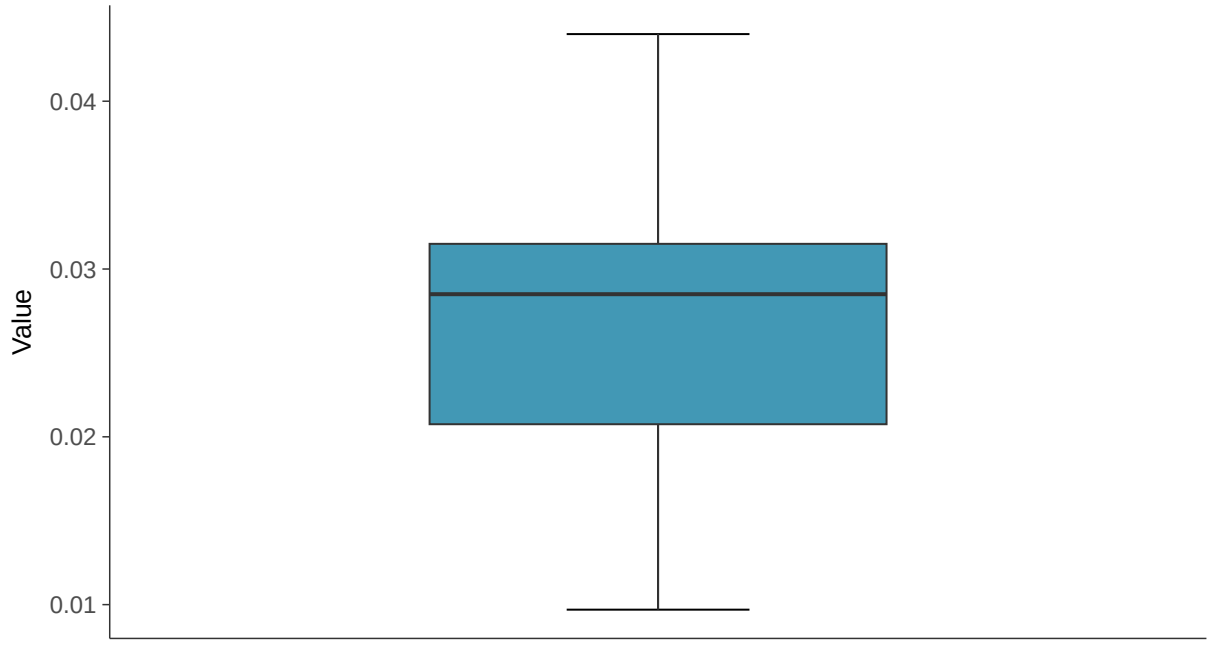
Histogram

Arsenic, MW-18 (mg/L)



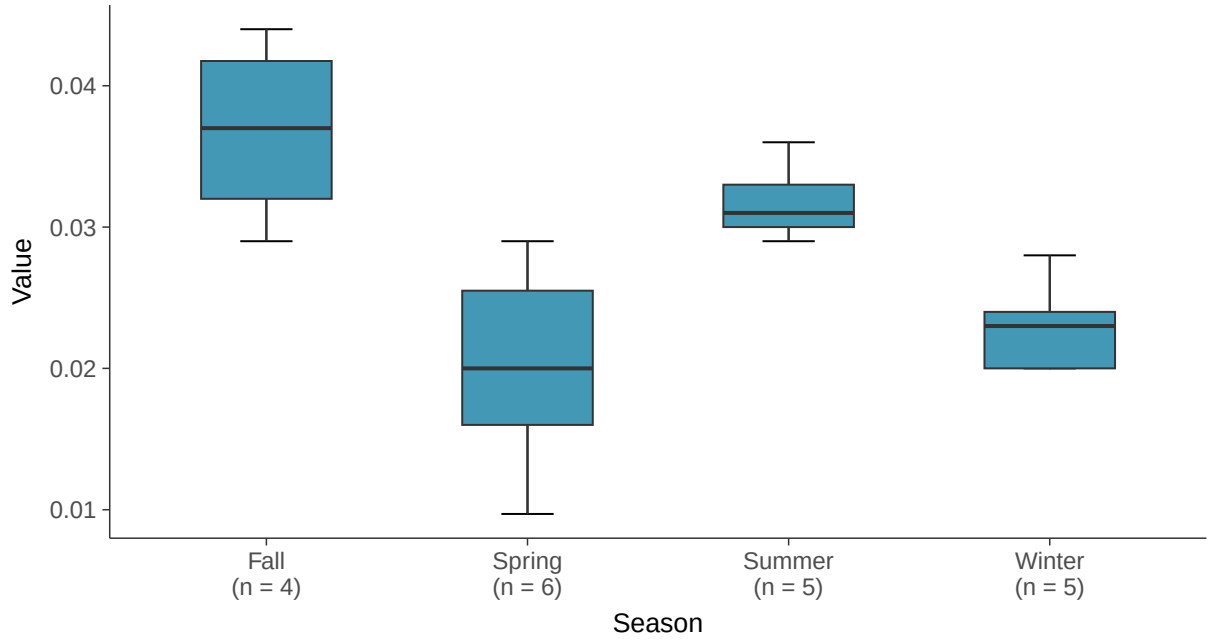
Boxplot

Arsenic, MW-18 (mg/L)



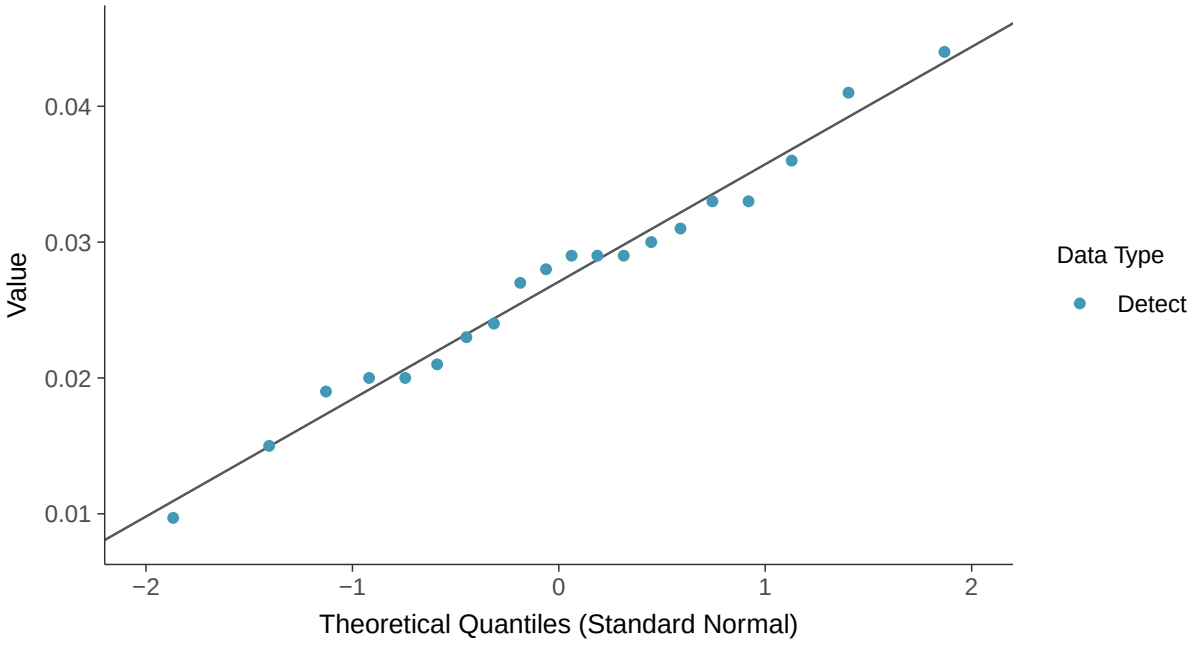
Boxplot by Season

Arsenic, MW-18 (mg/L)



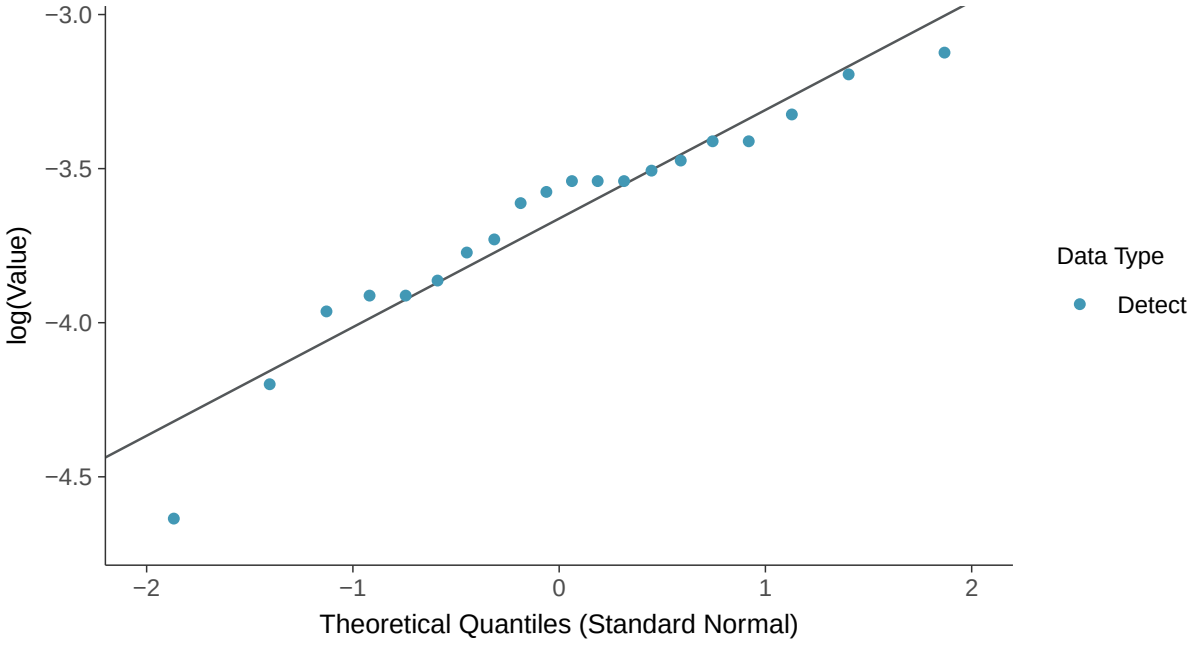
Normal Q-Q plot

Arsenic, MW-18 (mg/L)



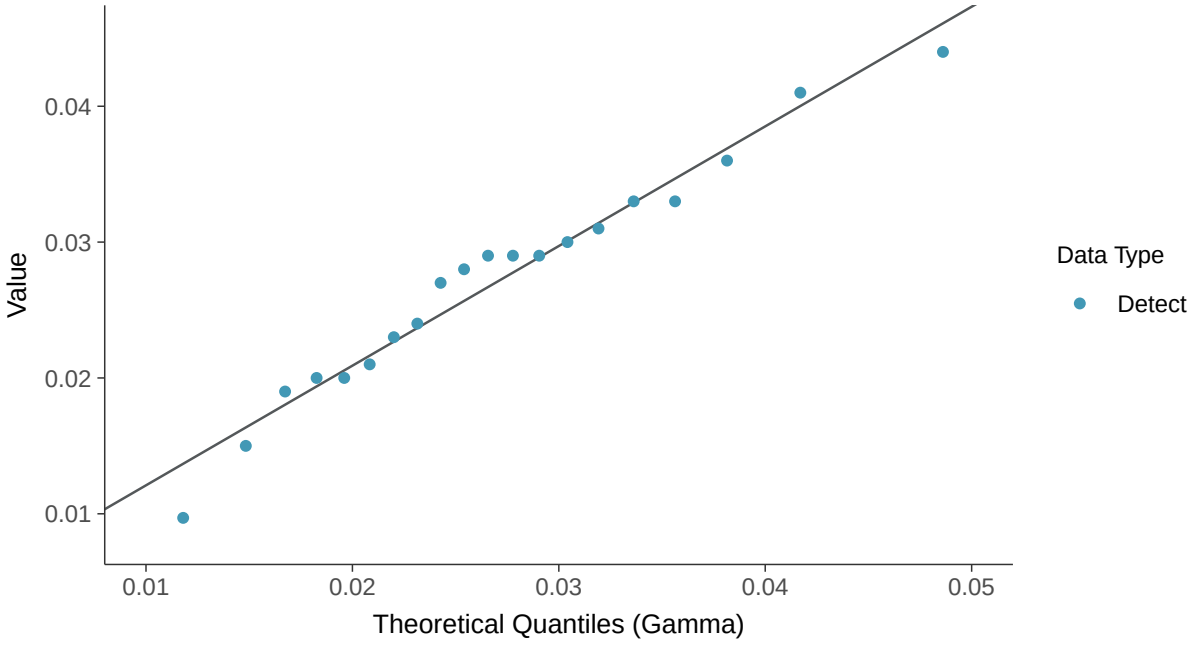
Lognormal Q-Q plot

Arsenic, MW-18 (mg/L)



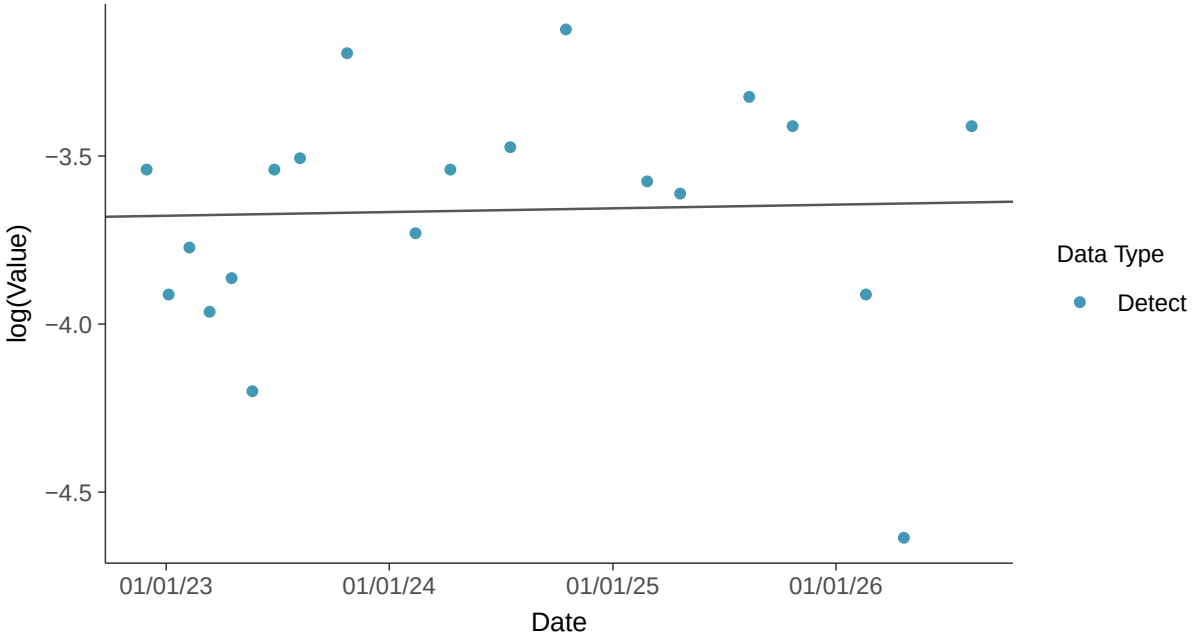
Gamma Q-Q plot

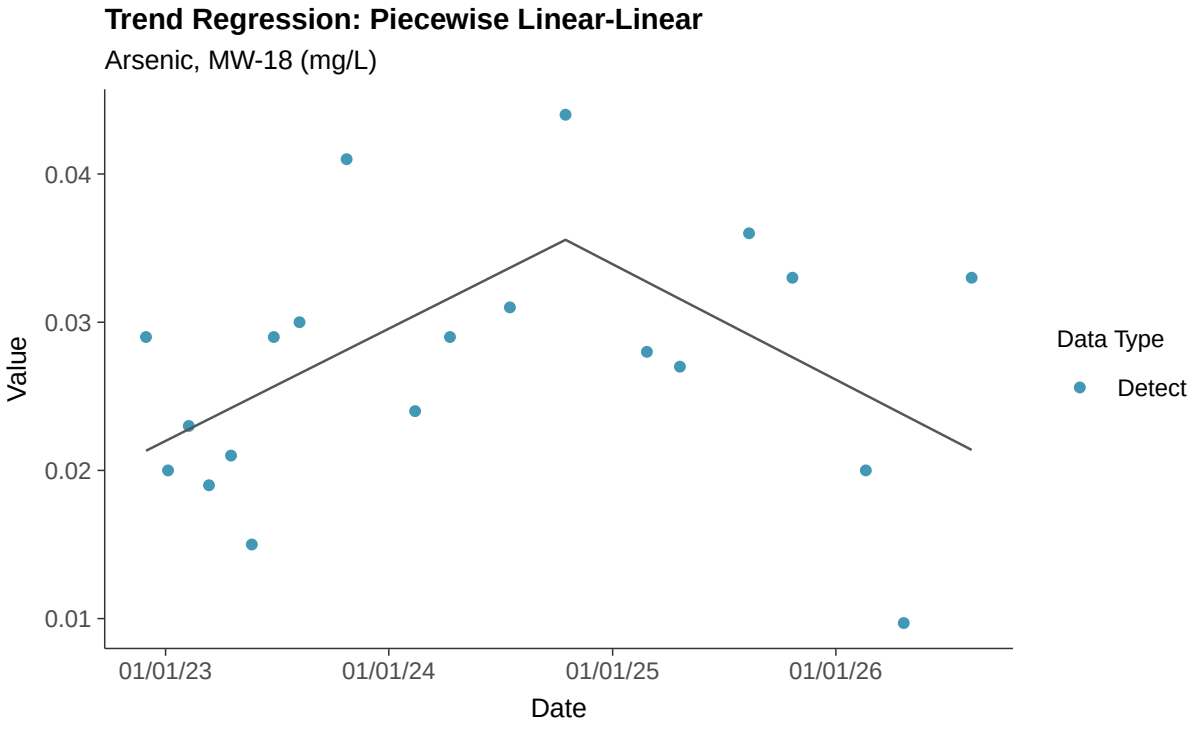
Arsenic, MW-18 (mg/L)



Trend Regression: Lognormal MLE

Arsenic, MW-18 (mg/L)



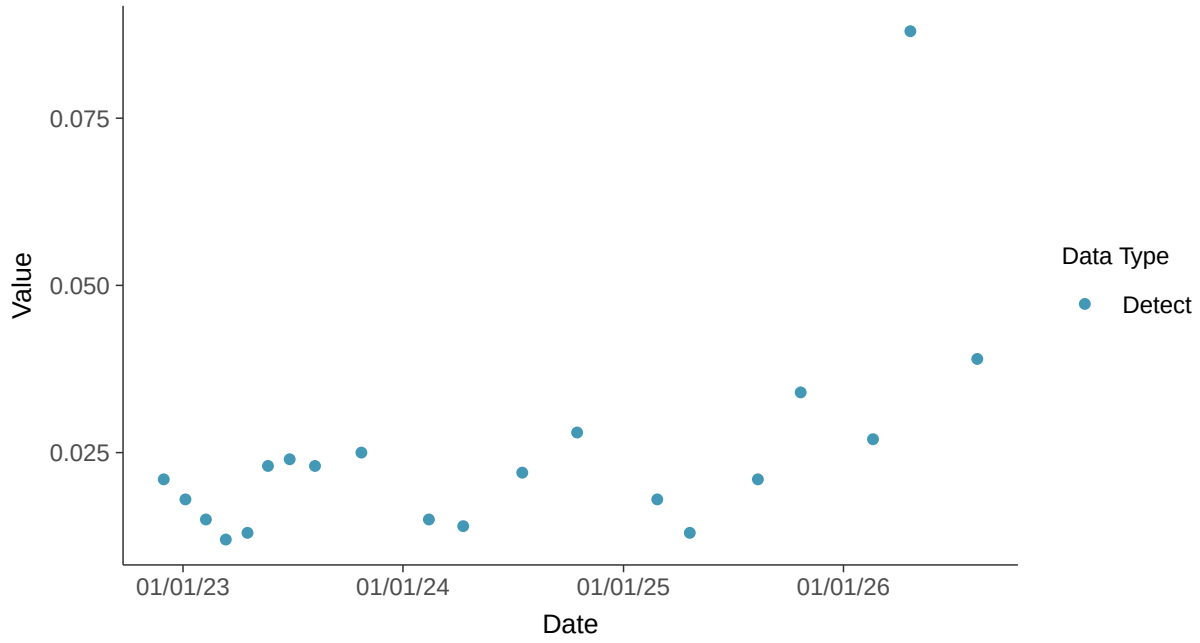

Trend Regression: Piecewise Linear-Linear
Arsenic, MW-18 (mg/L)
Value
0.04
0.03
0.02
0.01
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect

Appendix IV: Barium, MW-18

ID: 28_1_4_103

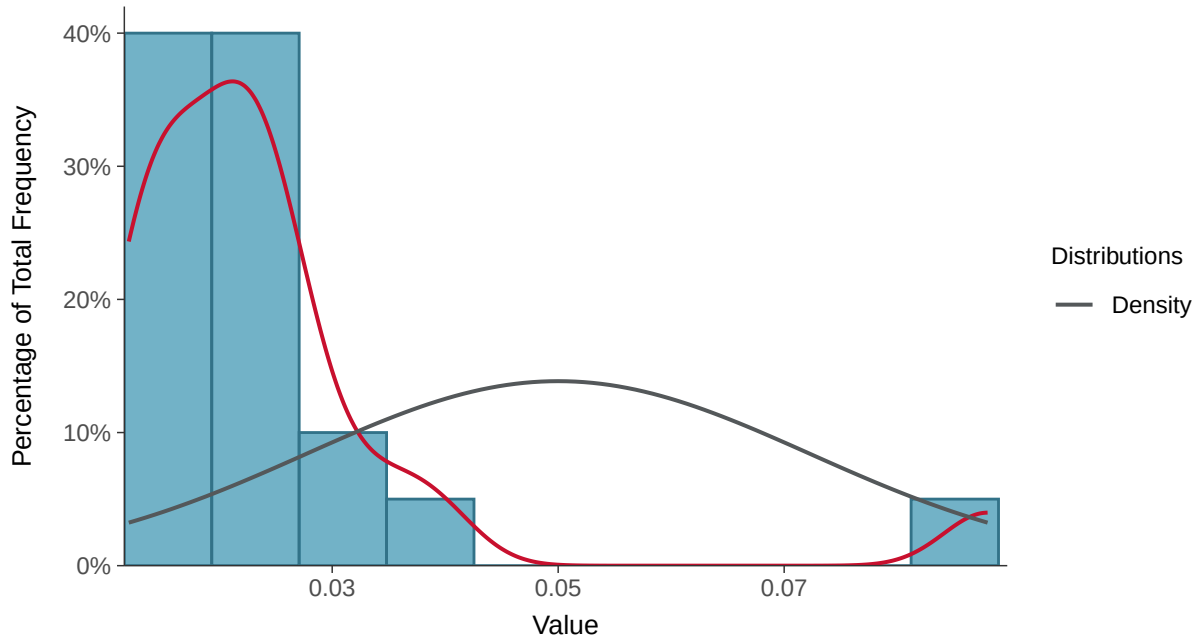
Scatter Plot

Barium, MW-18 (mg/L)



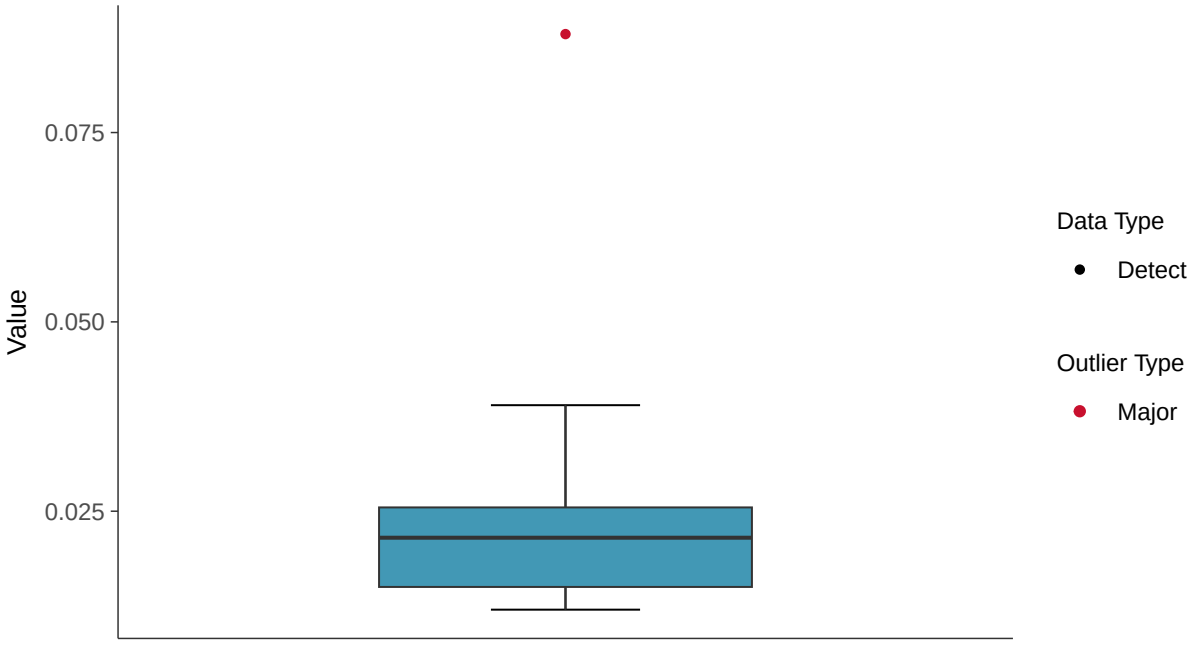
Histogram

Barium, MW-18 (mg/L)



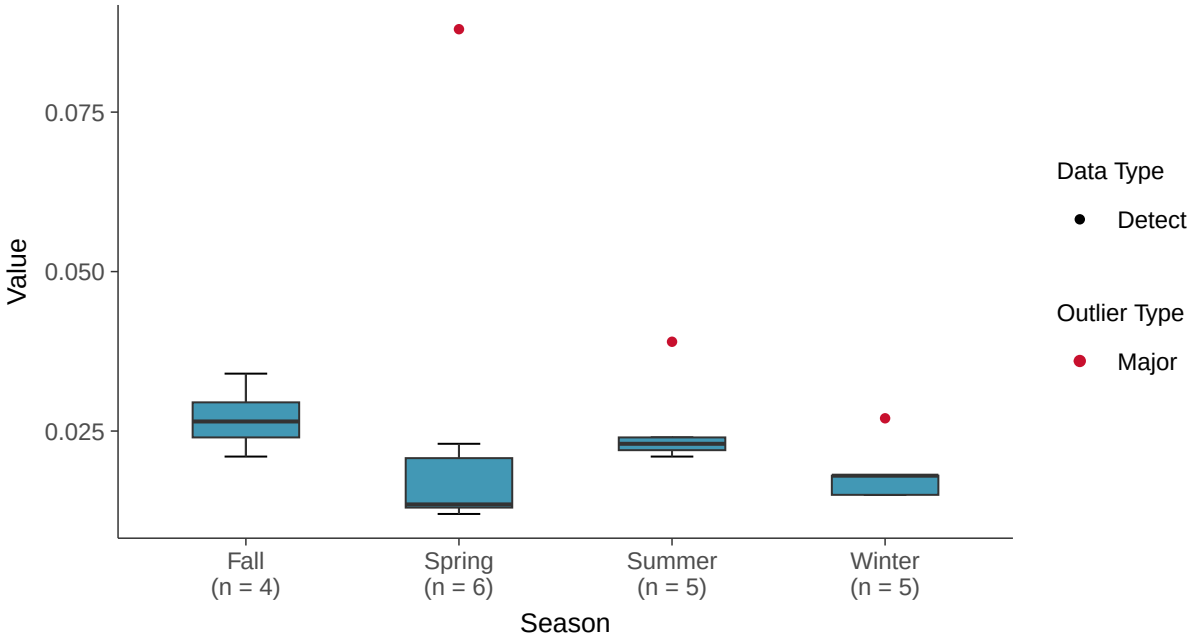
Boxplot

Barium, MW-18 (mg/L)



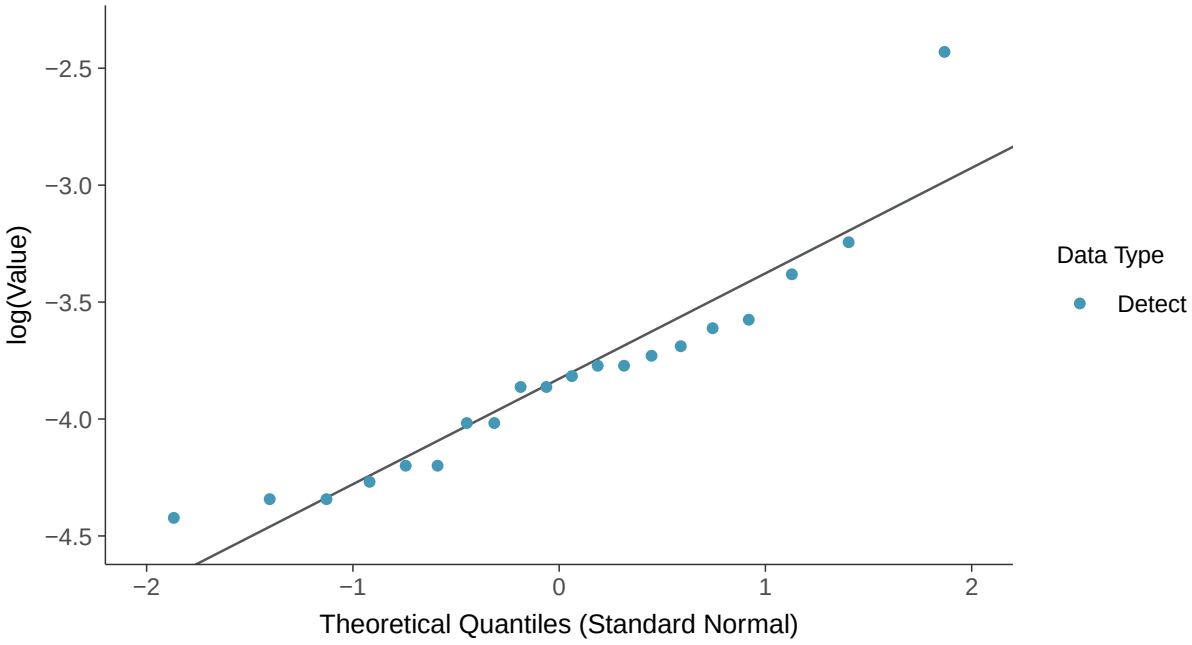
Boxplot by Season

Barium, MW-18 (mg/L)



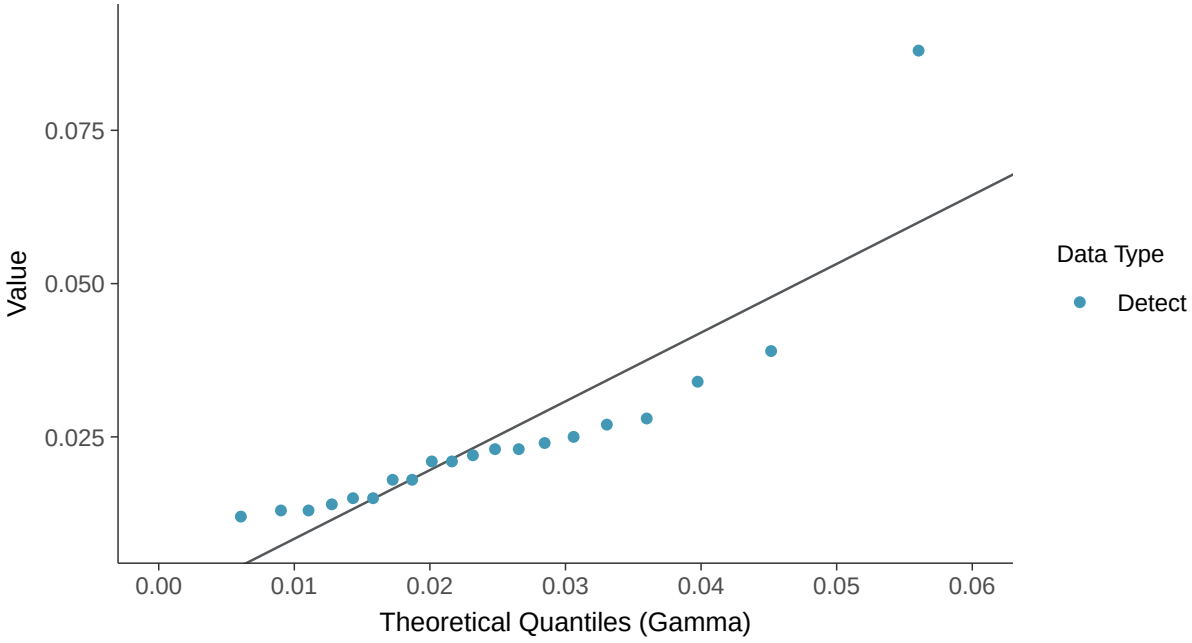
Lognormal Q-Q plot

Barium, MW-18 (mg/L)



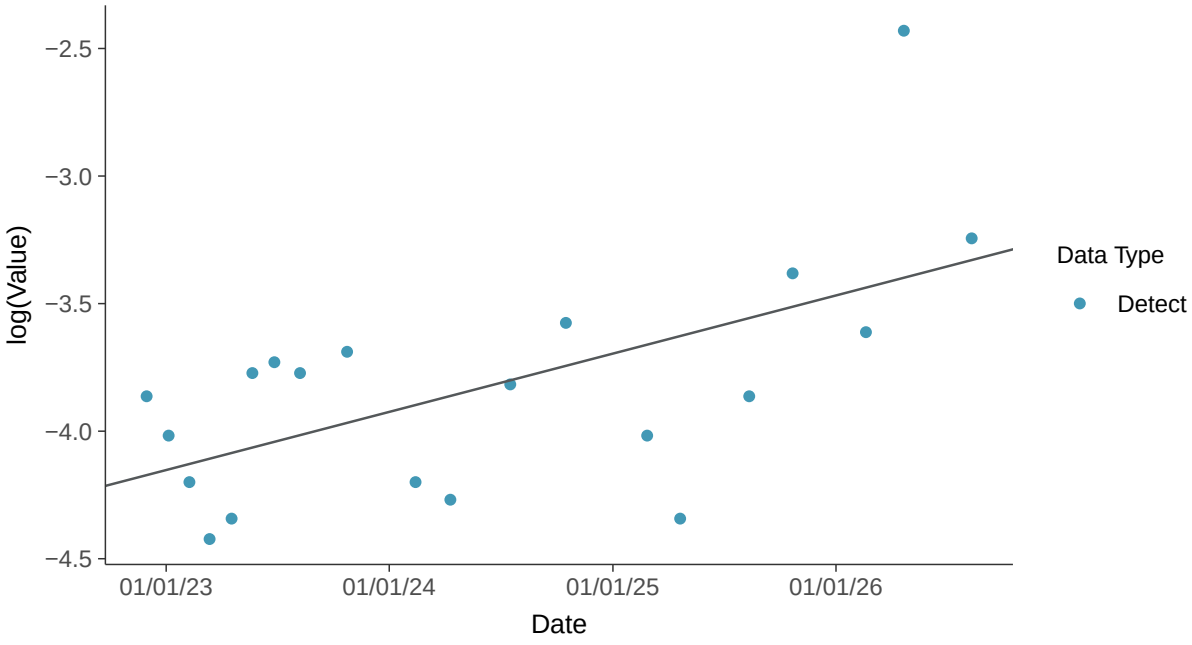
Gamma Q-Q plot

Barium, MW-18 (mg/L)



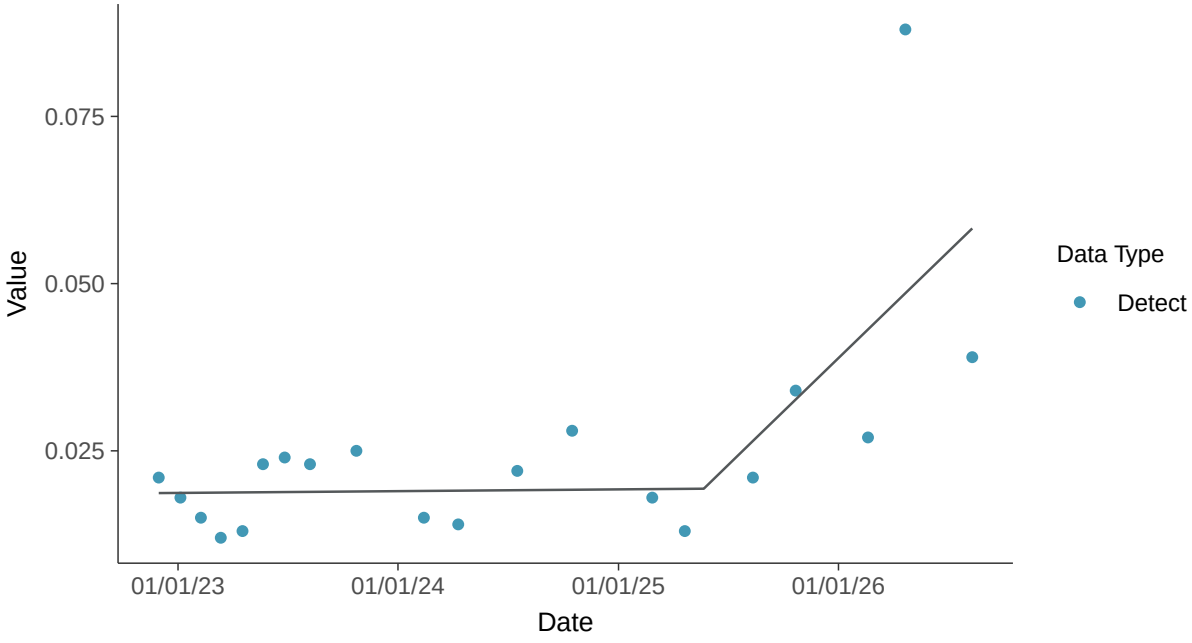
Trend Regression: Lognormal MLE

Barium, MW-18 (mg/L)



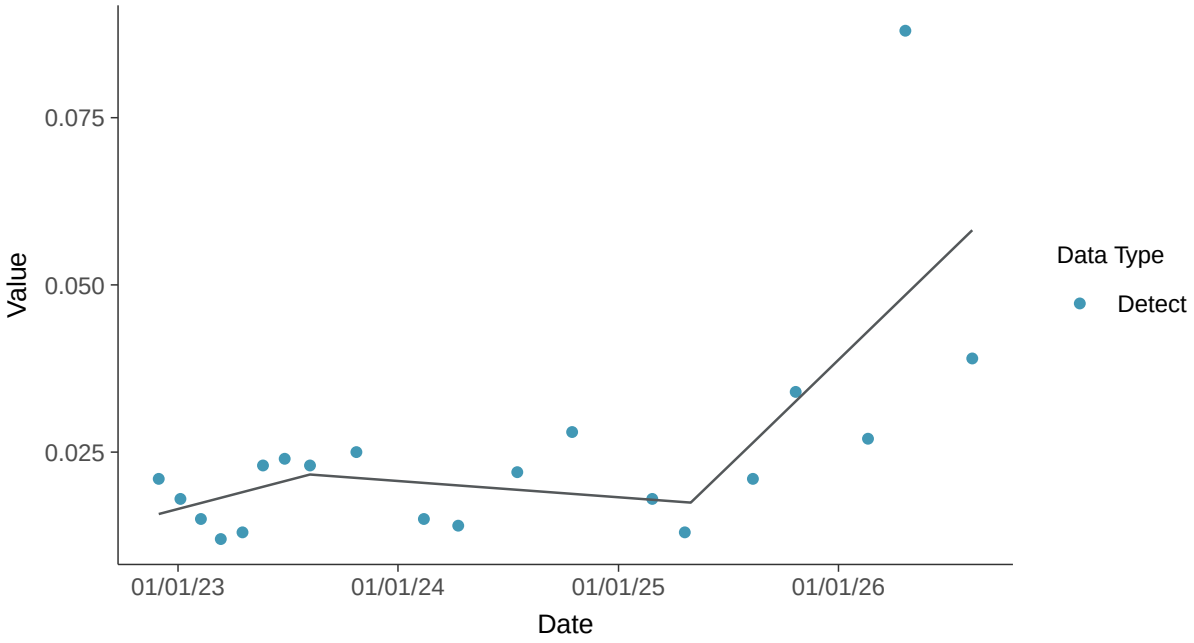
Trend Regression: Piecewise Linear-Linear

Barium, MW-18 (mg/L)



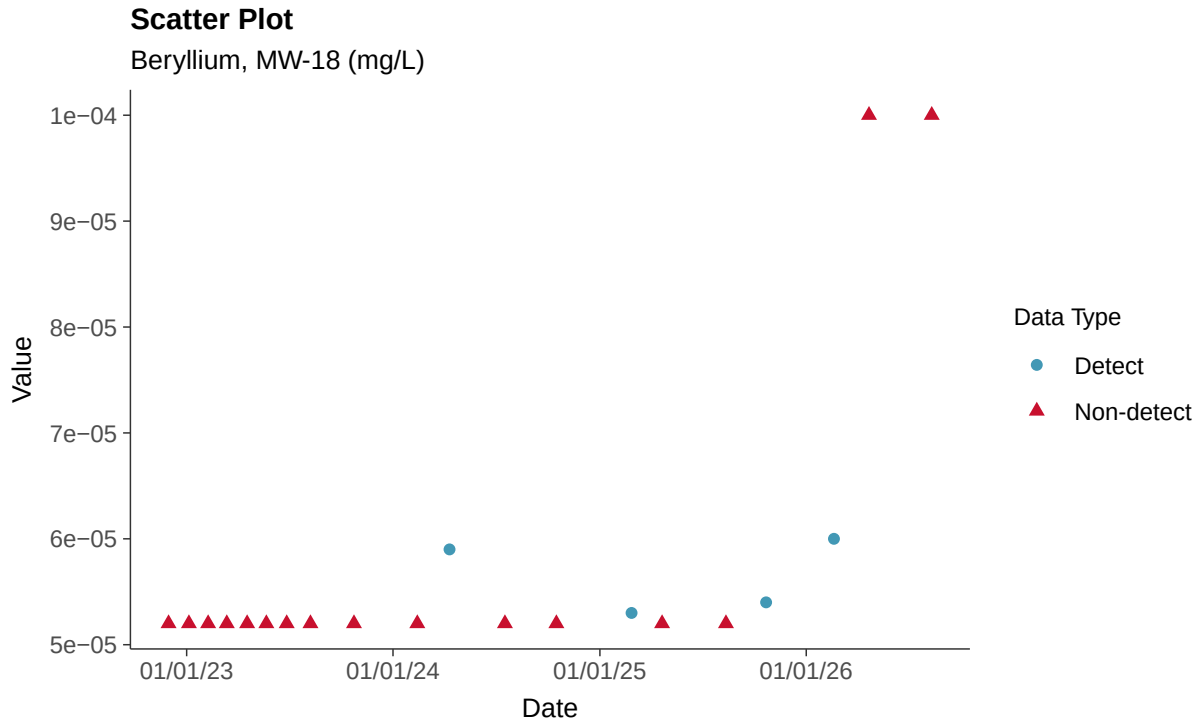
Trend Regression: Piecewise Linear-Linear-Linear

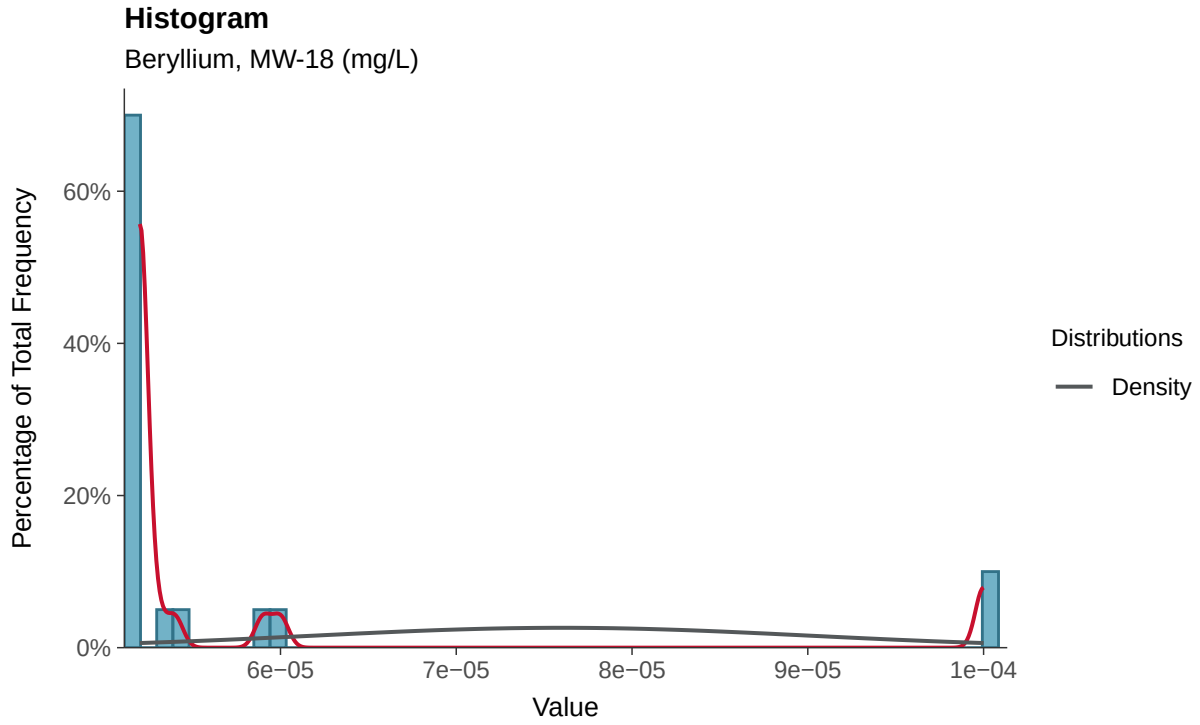
Barium, MW-18 (mg/L)



Appendix IV: Beryllium, MW-18

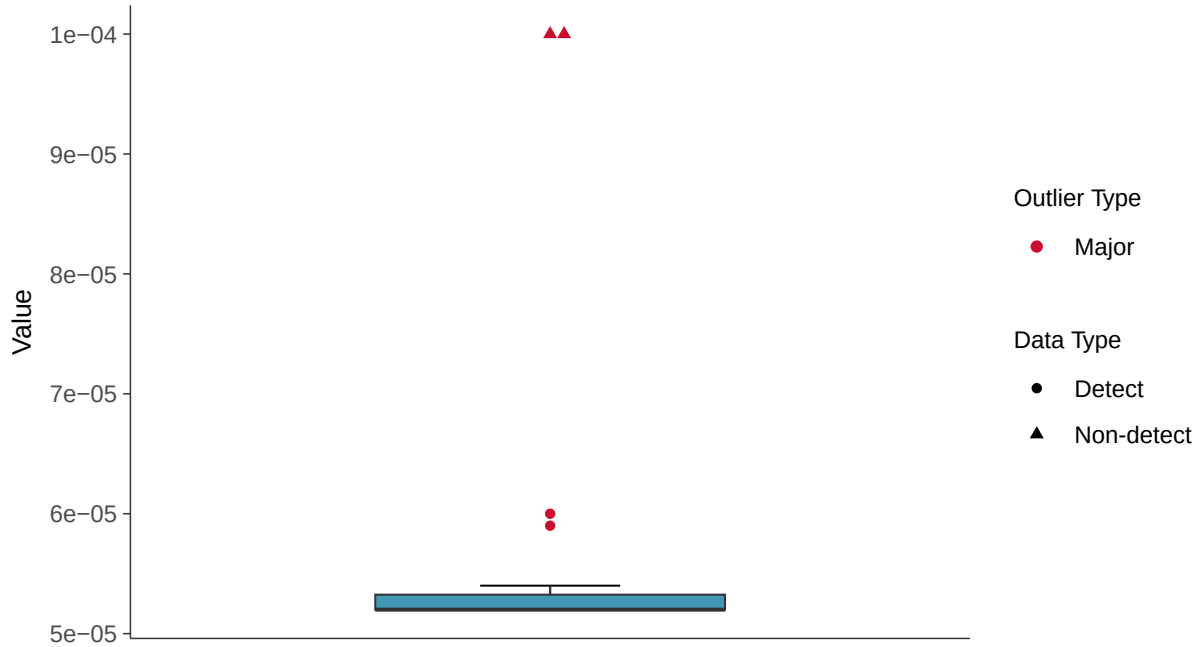
ID: 28_1_4_104





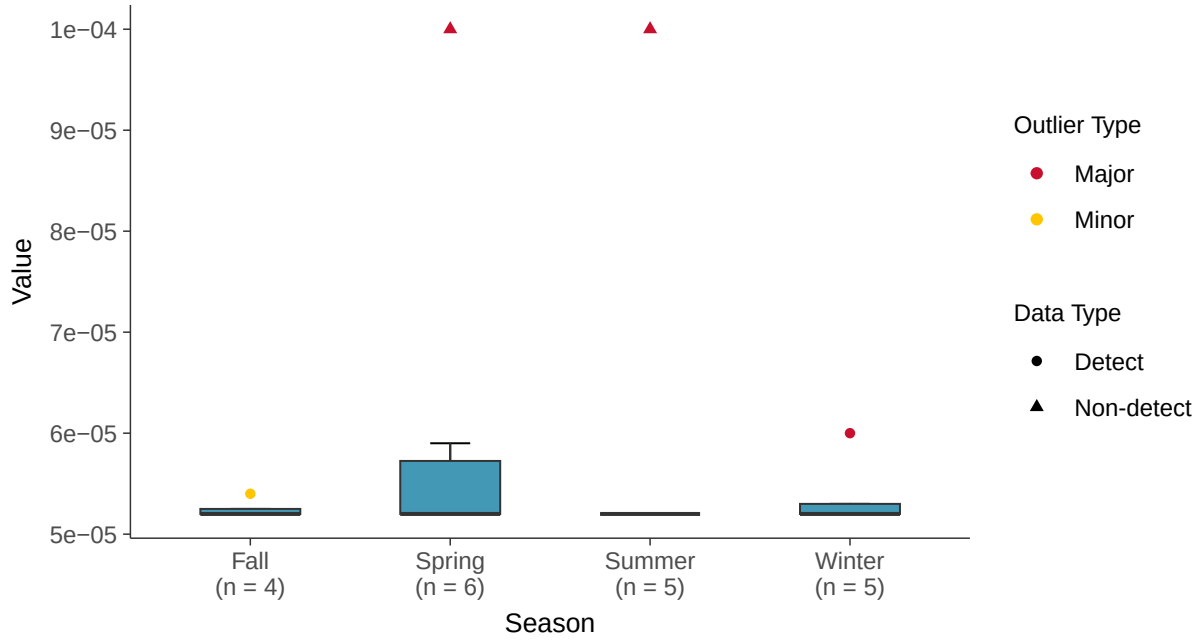
Boxplot

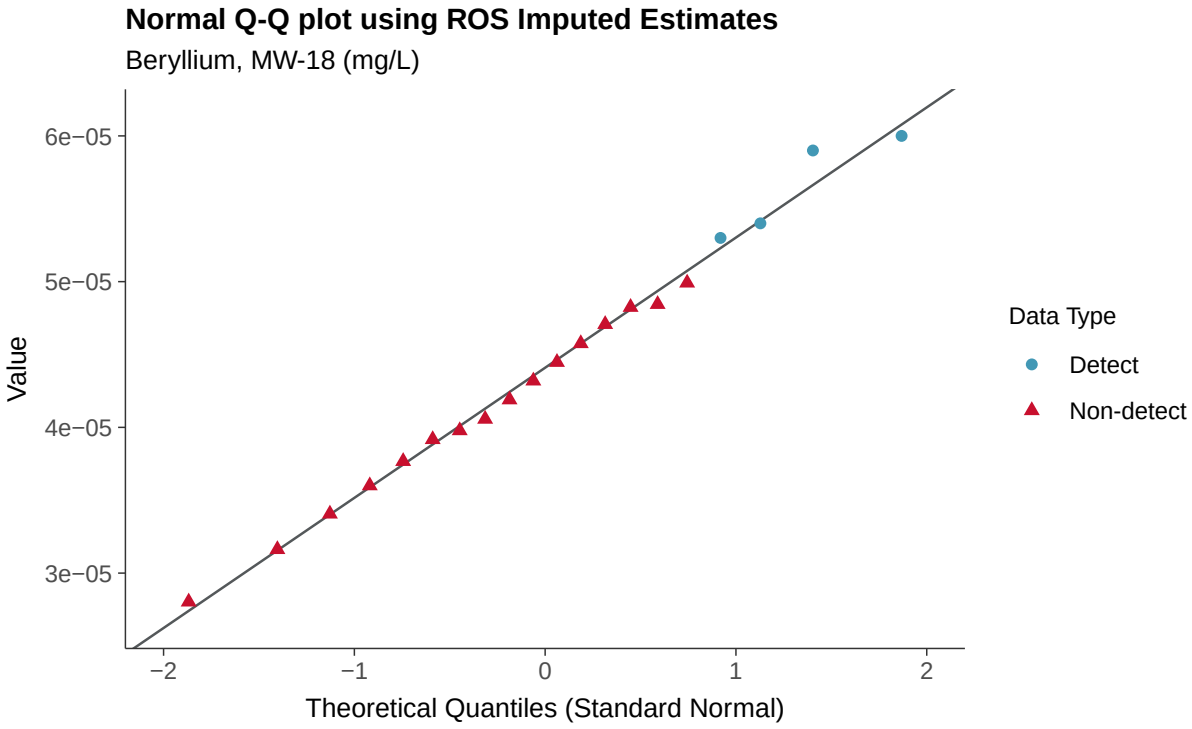
Beryllium, MW-18 (mg/L)



Boxplot by Season

Beryllium, MW-18 (mg/L)



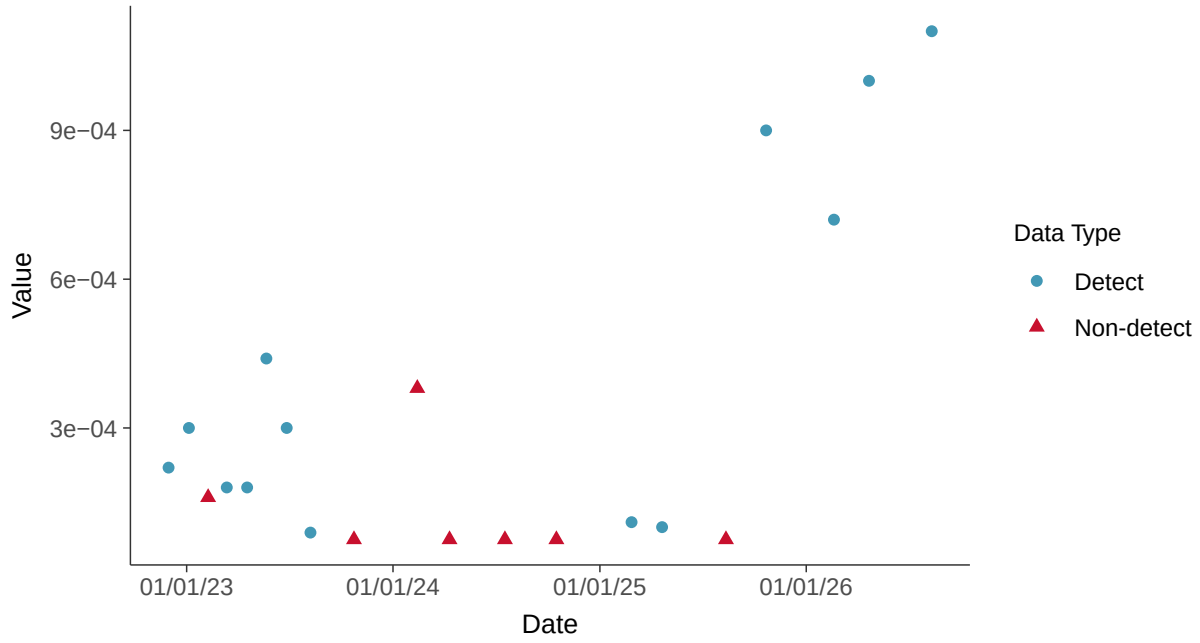

Normal Q-Q plot using ROS Imputed Estimates
Beryllium, MW-18 (mg/L)
Value
6e−05
5e−05
4e−05
3e−05
−2
−1
0
1
2
Theoretical Quantiles (Standard Normal)
Data Type
Detect
Non-detect

Appendix IV: Cadmium, MW-18

ID: 28_1_4_106

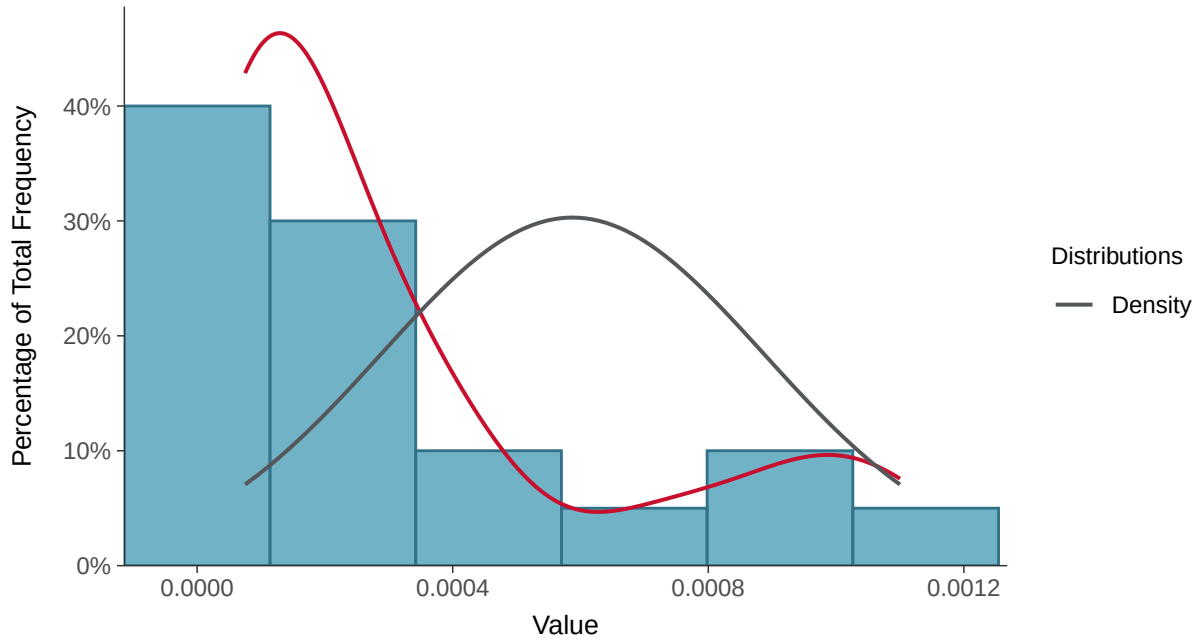
Scatter Plot

Cadmium, MW-18 (mg/L)



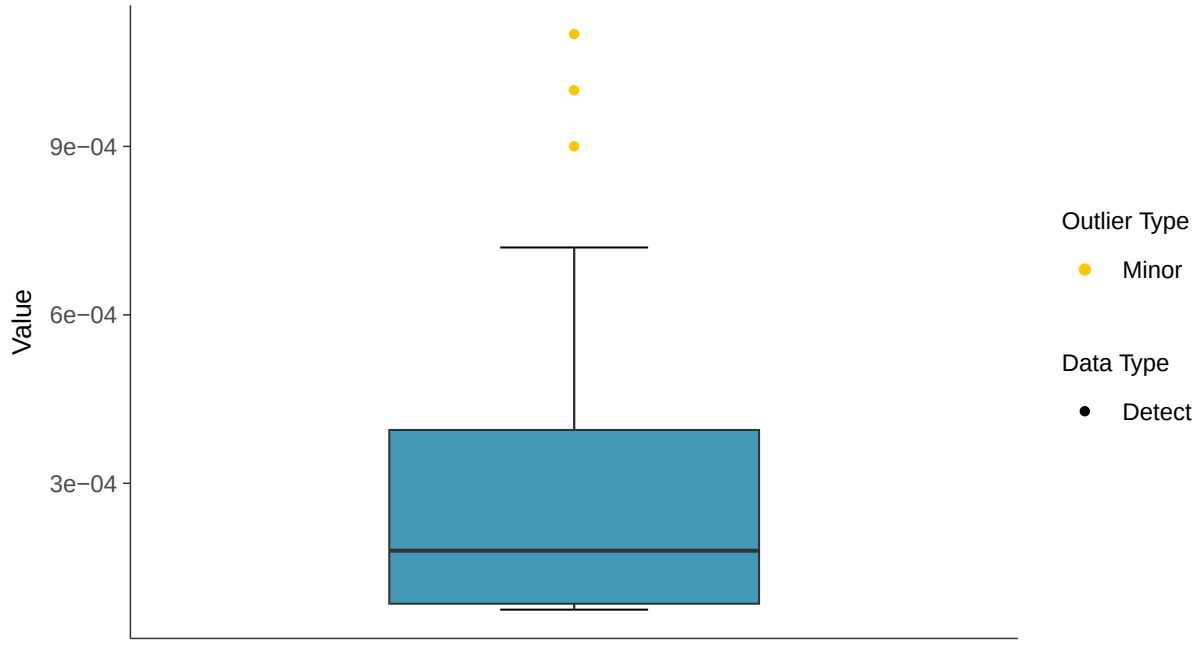
Histogram

Cadmium, MW-18 (mg/L)



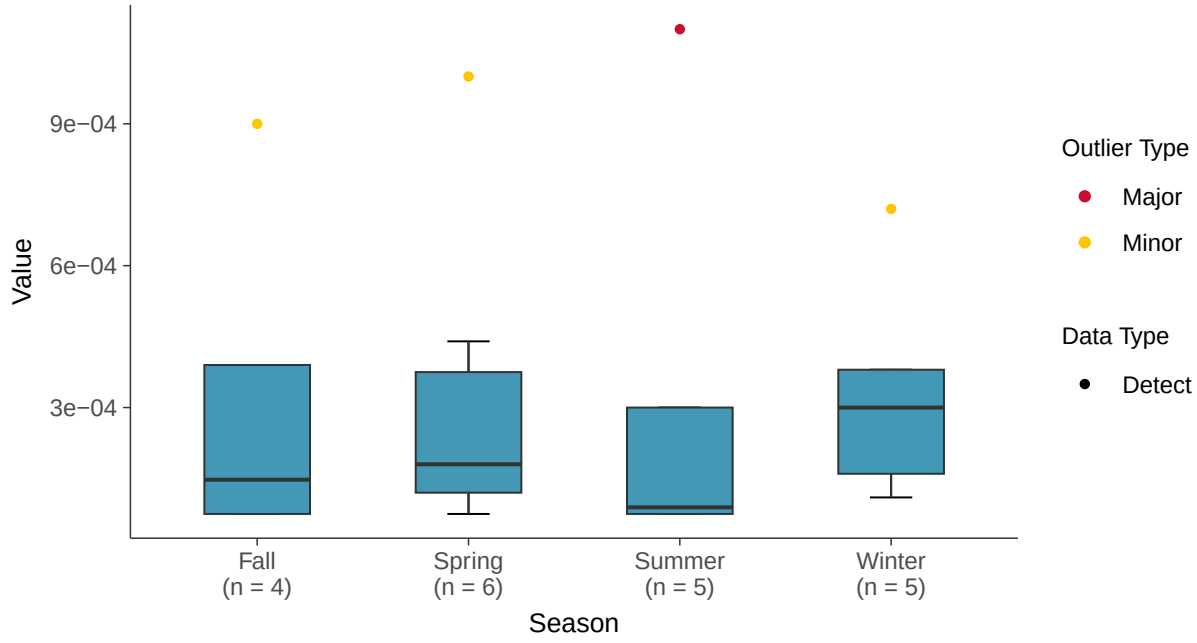
Boxplot

Cadmium, MW-18 (mg/L)



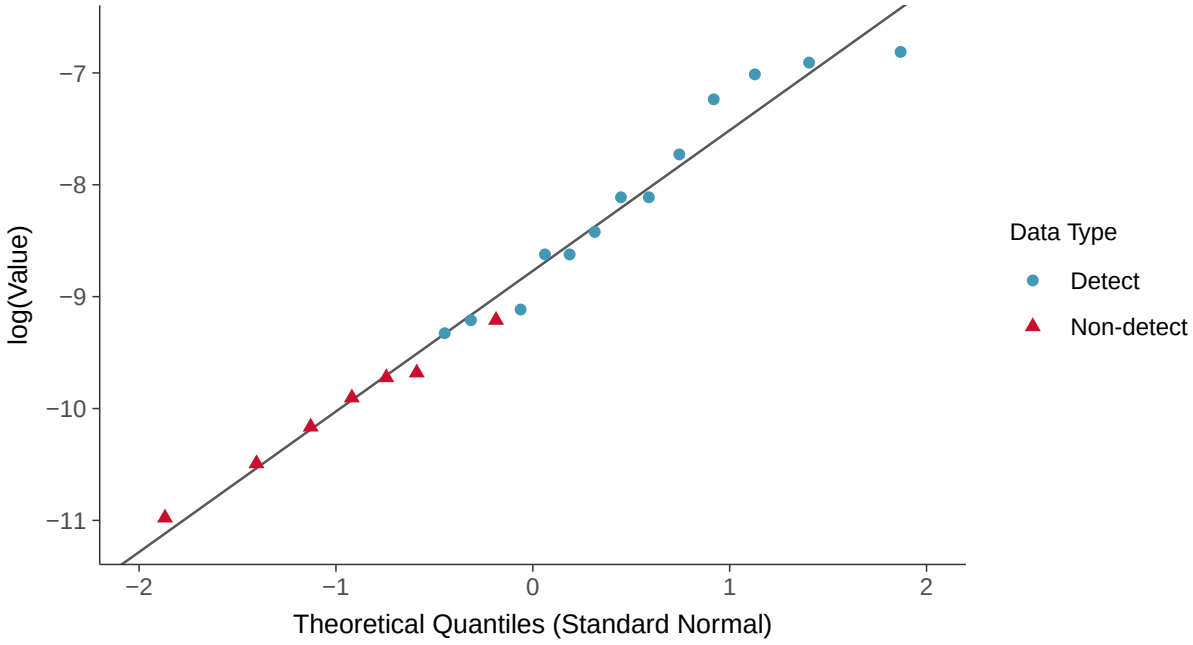
Boxplot by Season

Cadmium, MW-18 (mg/L)



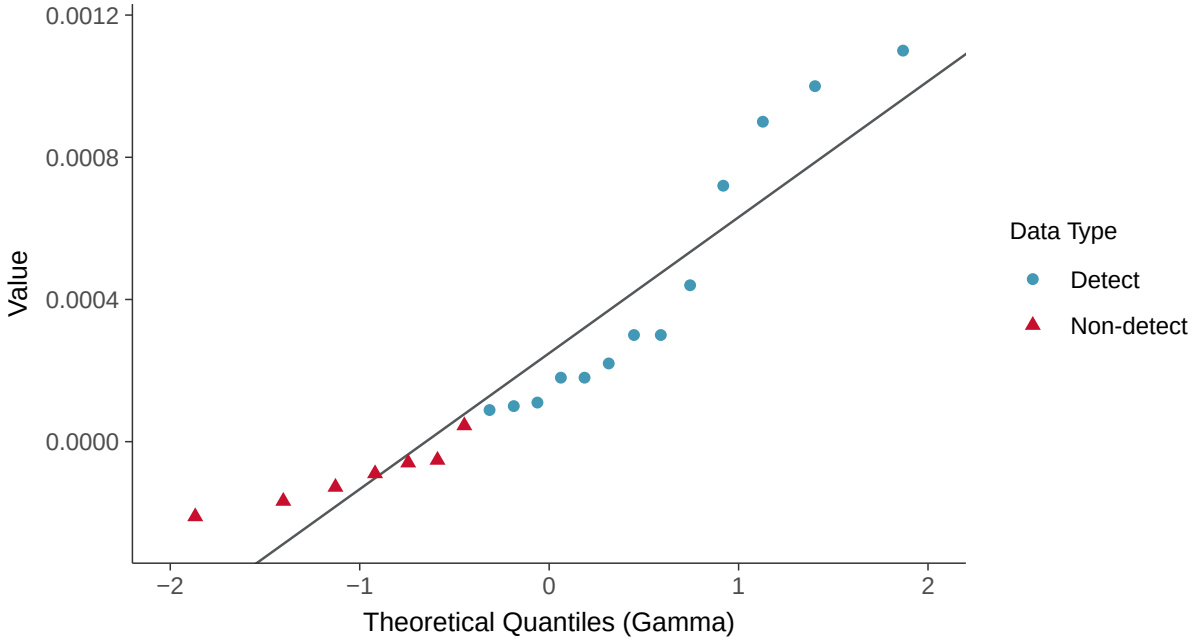
Lognormal Q-Q plot using ROS Imputed Estimates

Cadmium, MW-18 (mg/L)



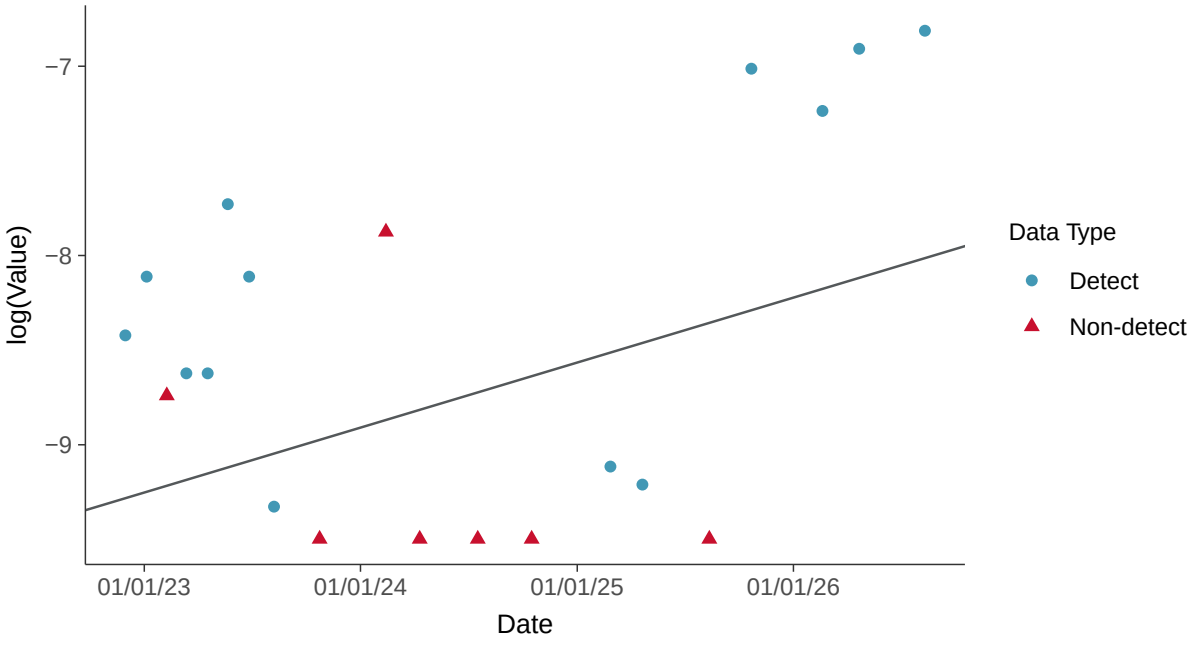
Gamma Q-Q plot using ROS Imputed Estimates

Cadmium, MW-18 (mg/L)



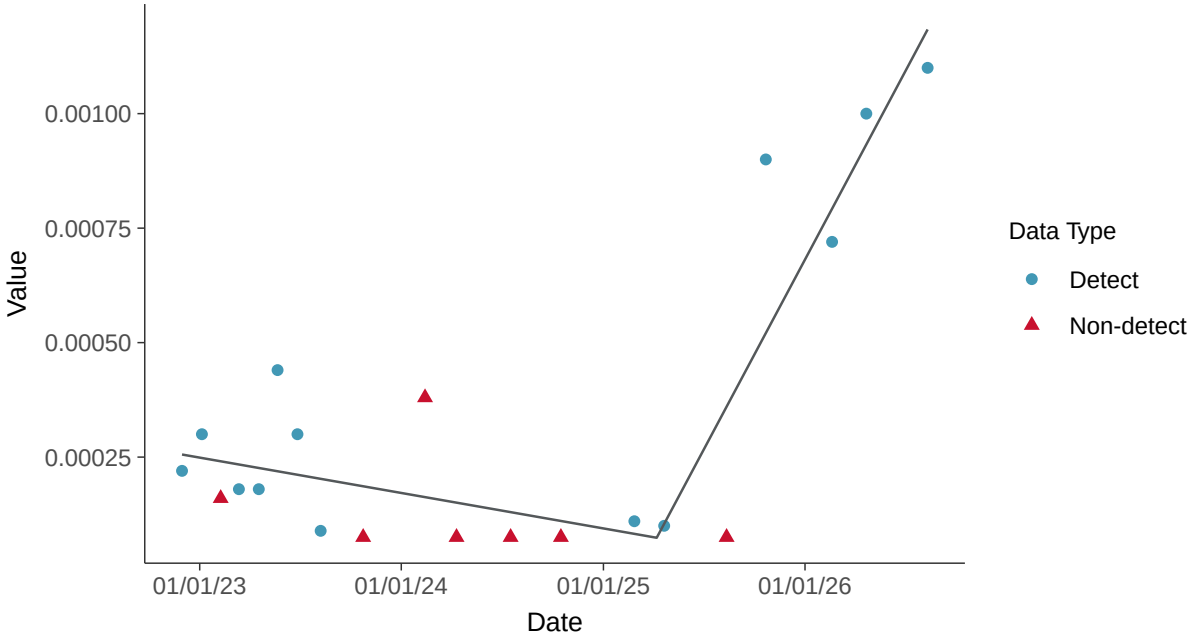
Trend Regression: Lognormal MLE

Cadmium, MW-18 (mg/L)



Trend Regression: Piecewise Linear-Linear

Cadmium, MW-18 (mg/L)

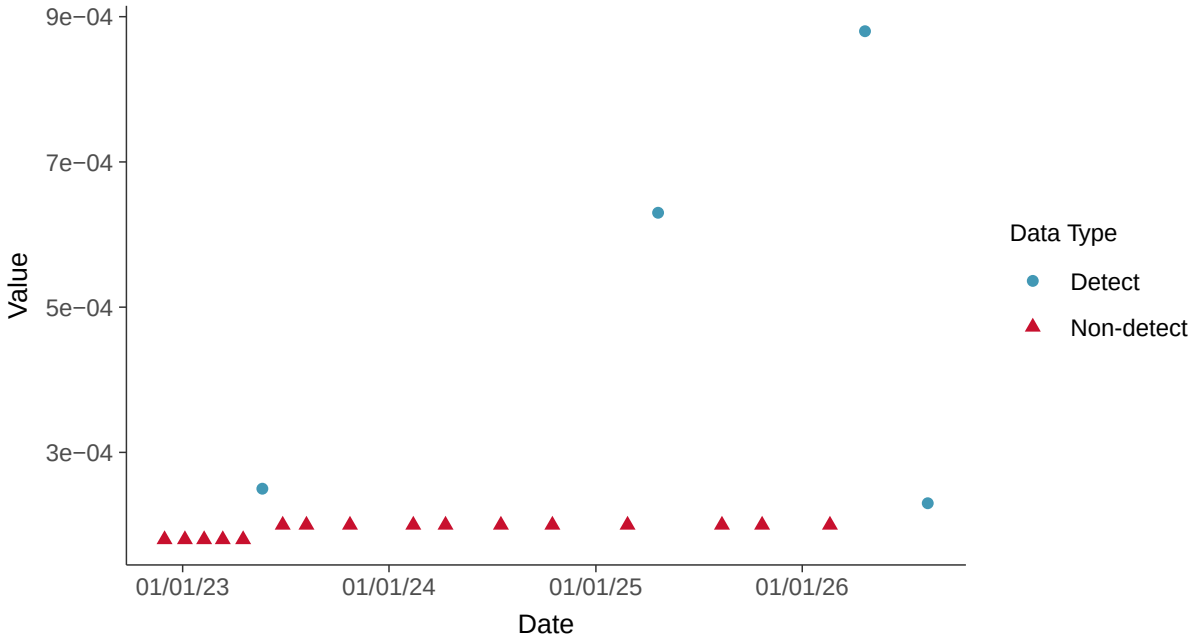


Appendix IV: Chromium, Total, MW-18

ID: 28_1_4_109

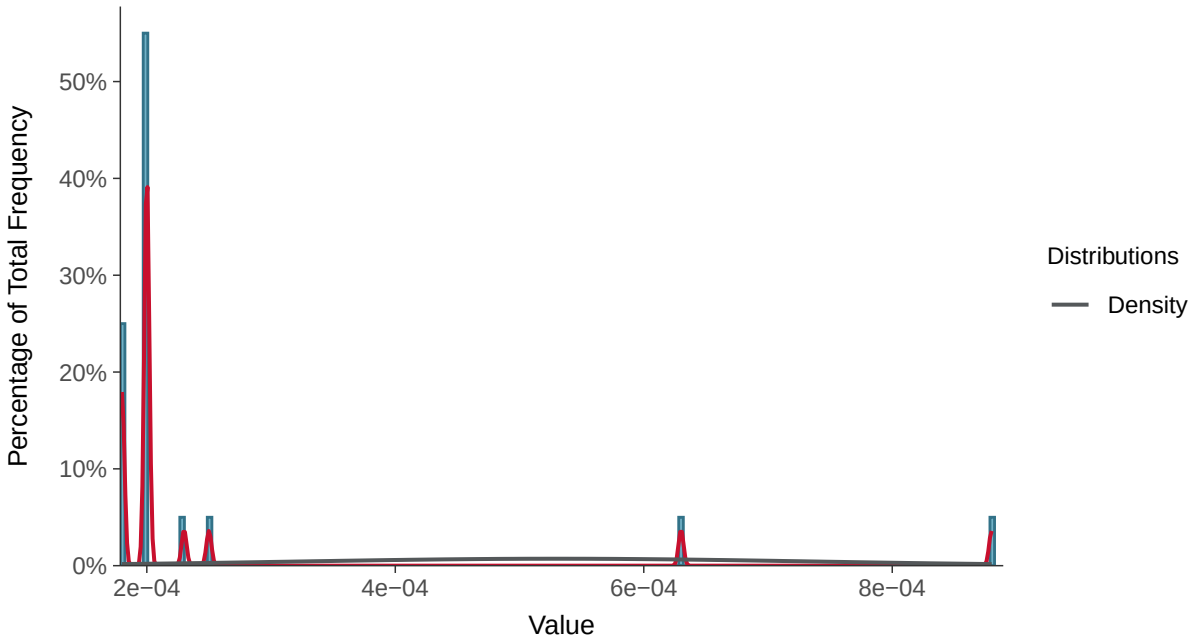
Scatter Plot

Chromium, Total, MW-18 (mg/L)



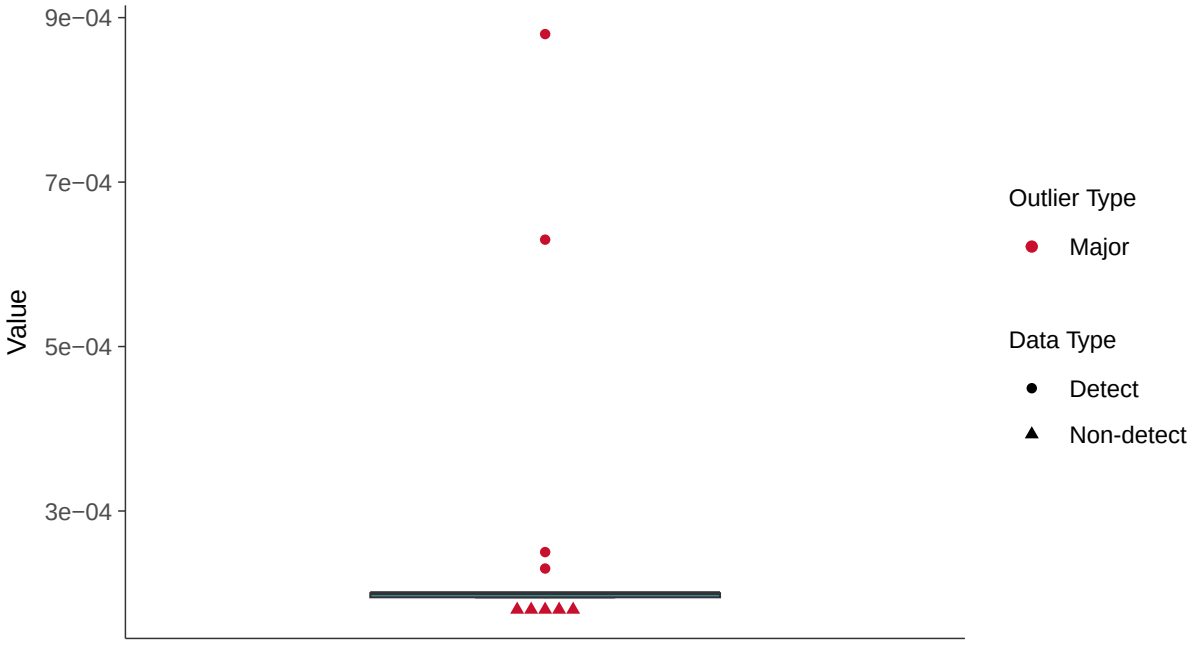
Histogram

Chromium, Total, MW-18 (mg/L)



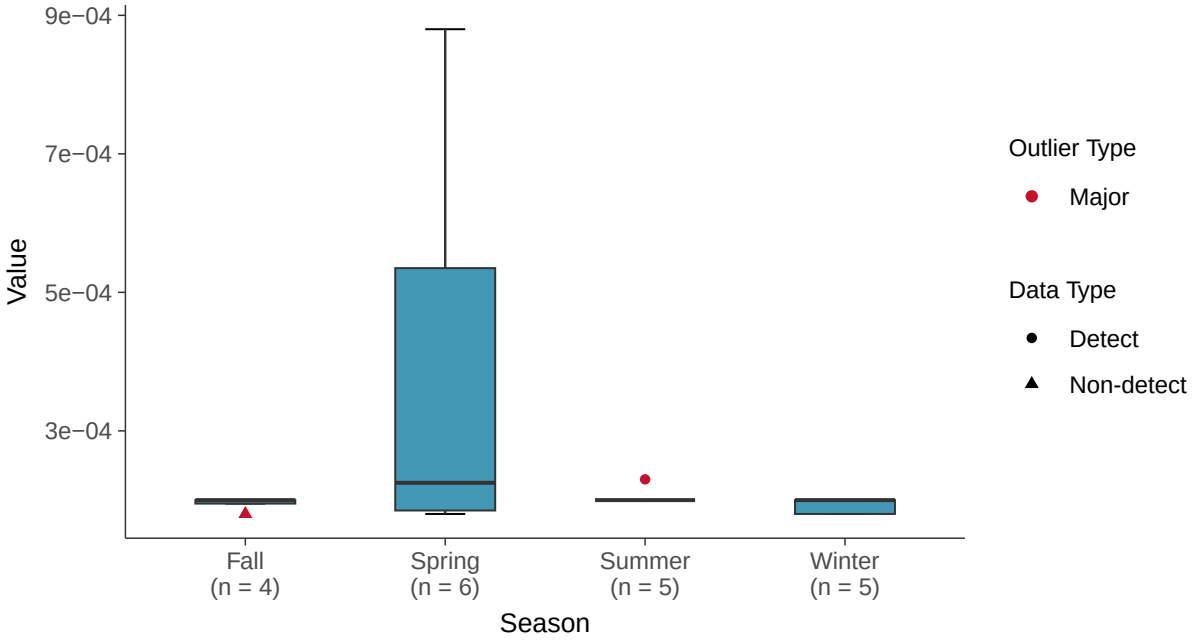
Boxplot

Chromium, Total, MW-18 (mg/L)



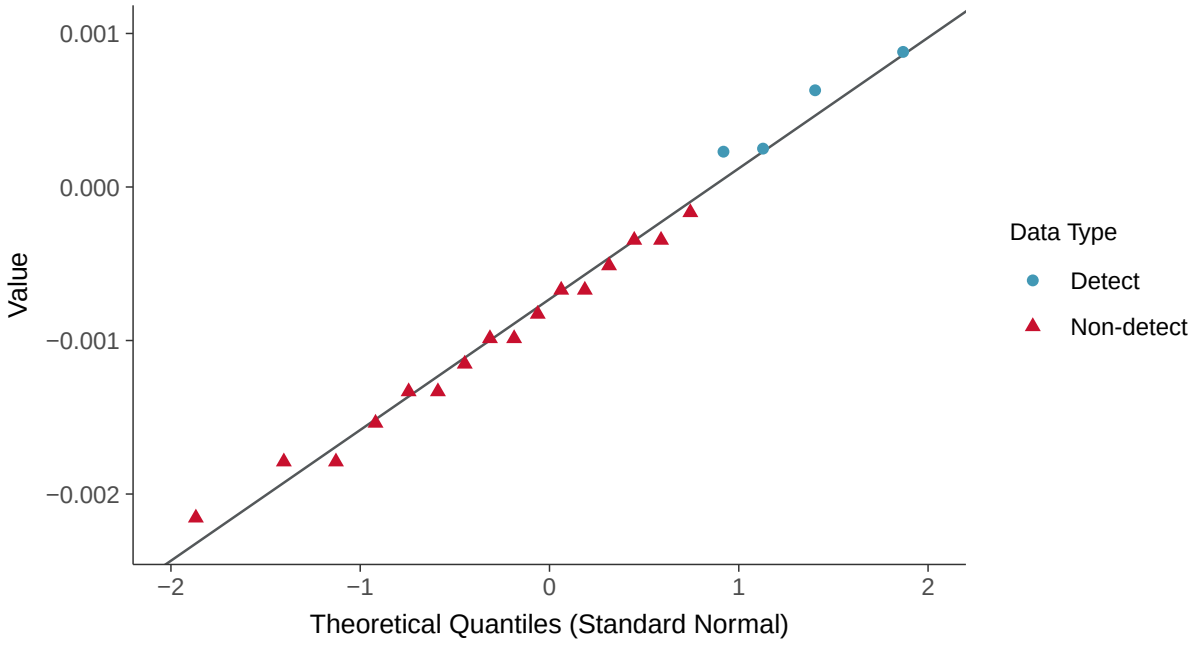
Boxplot by Season

Chromium, Total, MW-18 (mg/L)



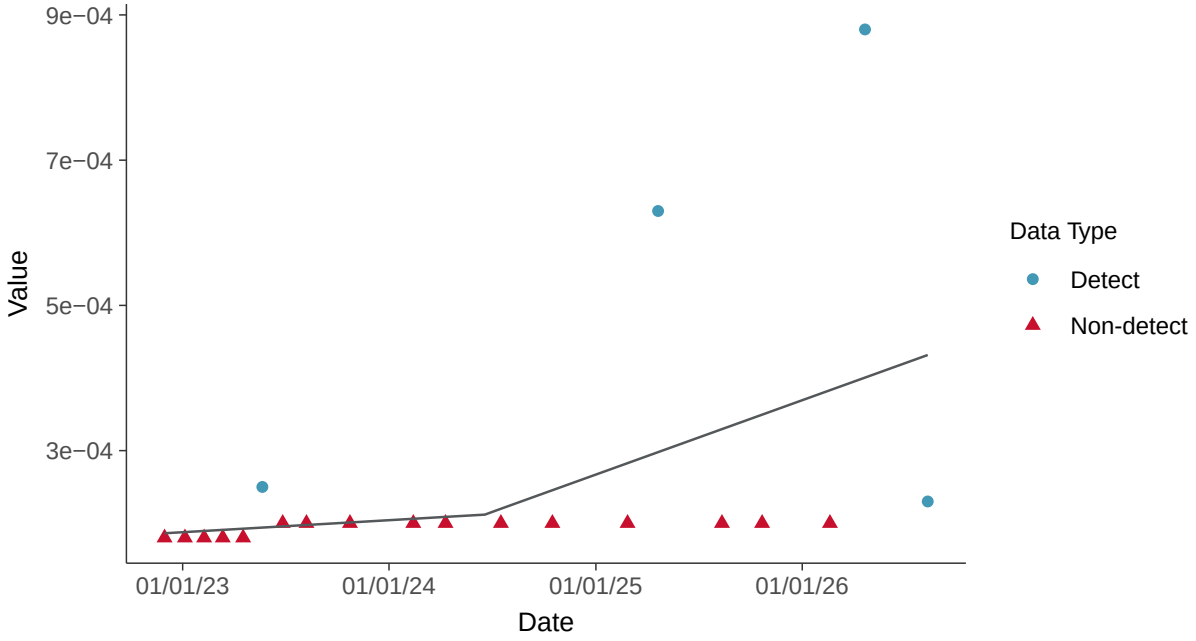
Normal Q-Q plot using ROS Imputed Estimates

Chromium, Total, MW-18 (mg/L)



Trend Regression: Piecewise Linear-Linear

Chromium, Total, MW-18 (mg/L)

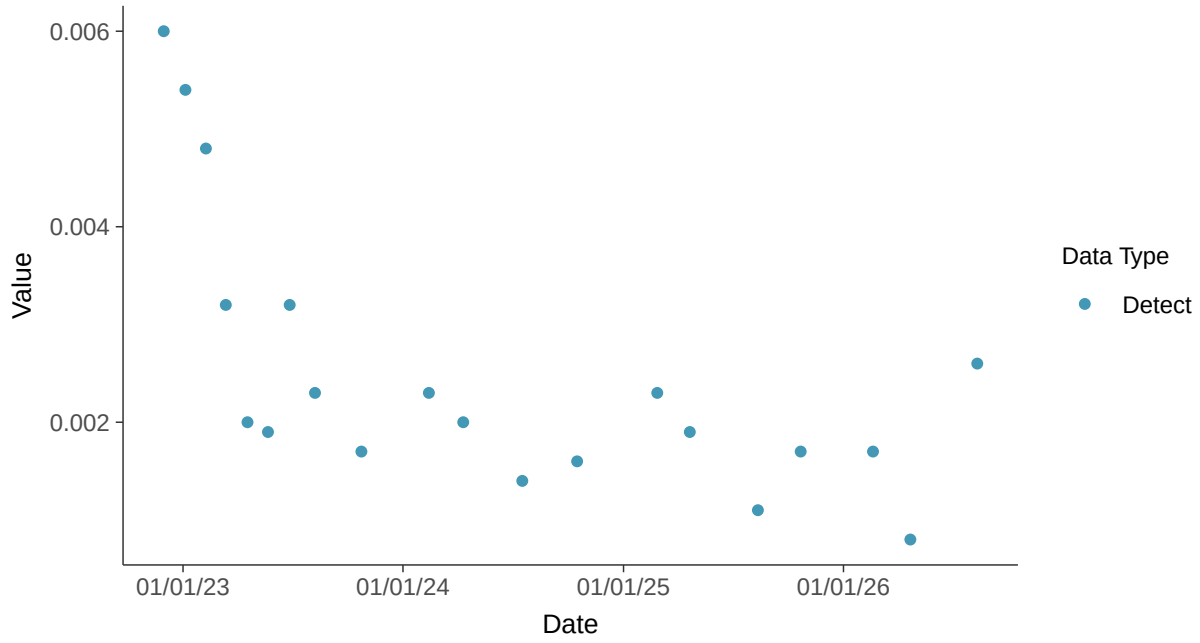


Appendix IV: Cobalt, MW-18

ID: 28_1_4_110

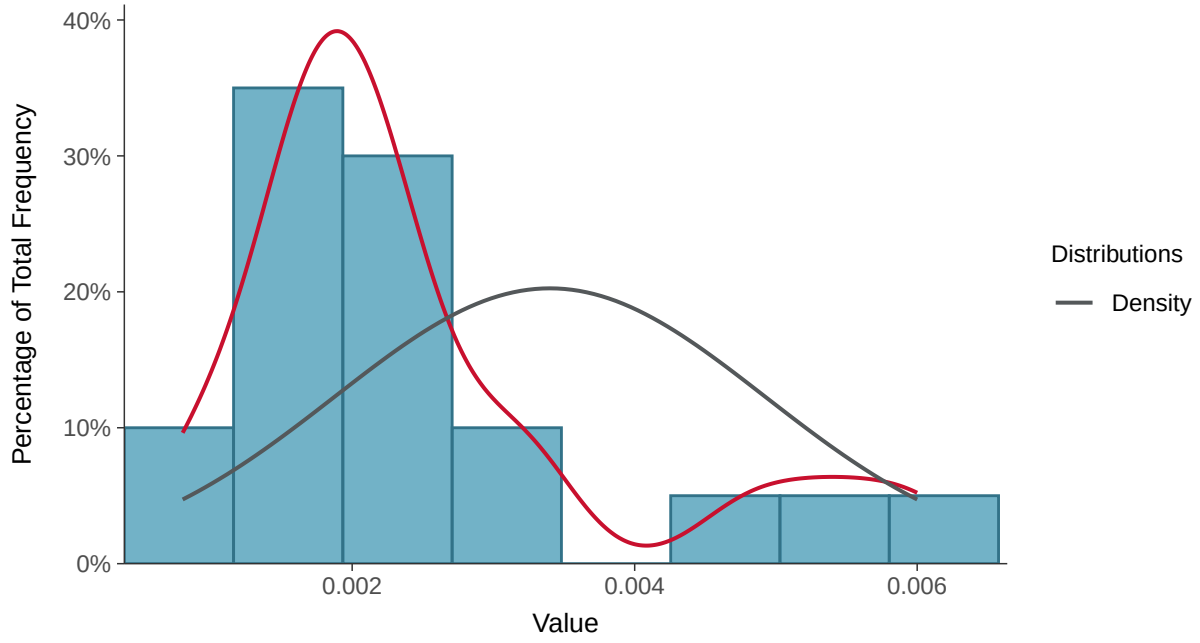
Scatter Plot

Cobalt, MW-18 (mg/L)



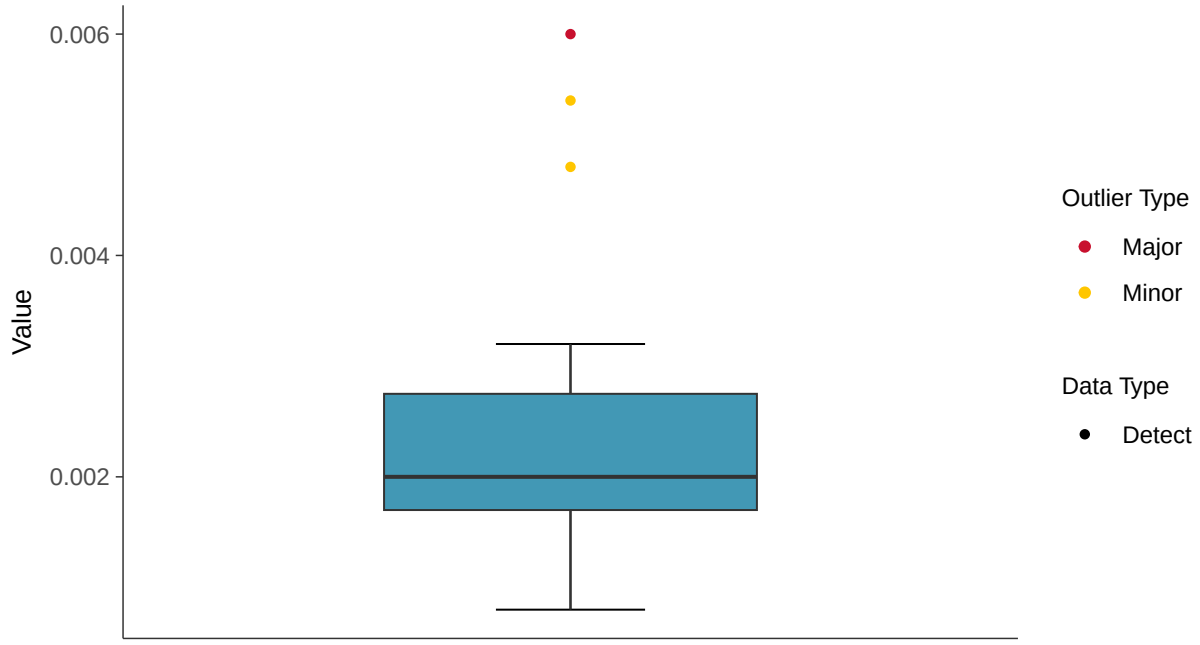
Histogram

Cobalt, MW-18 (mg/L)



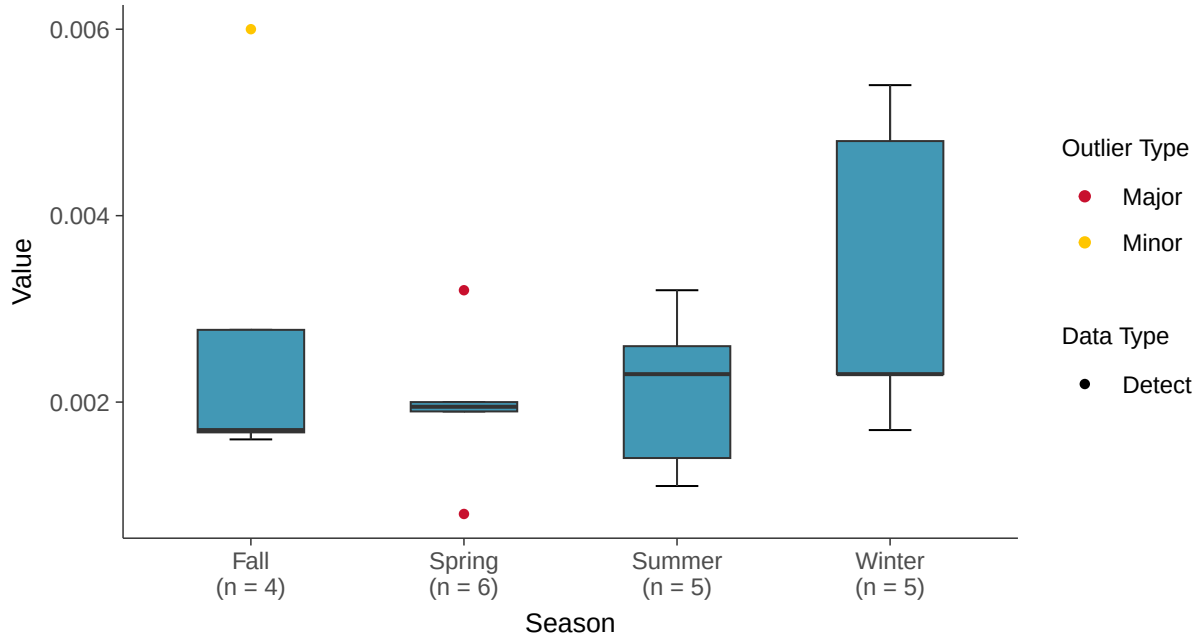
Boxplot

Cobalt, MW-18 (mg/L)



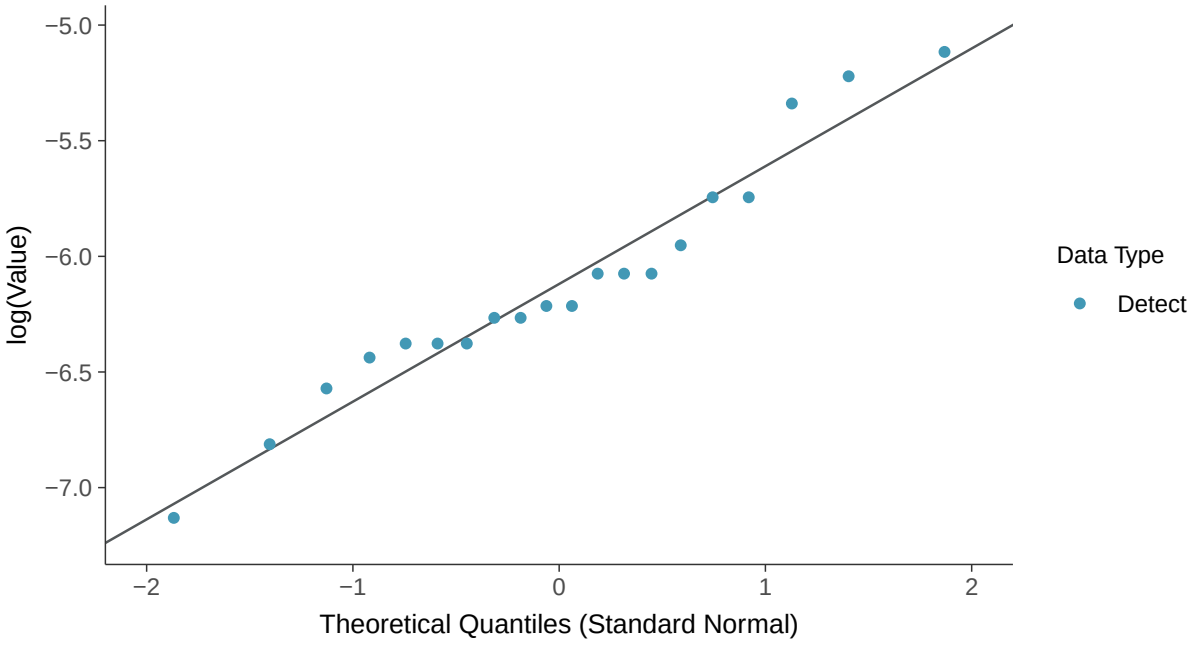
Boxplot by Season

Cobalt, MW-18 (mg/L)



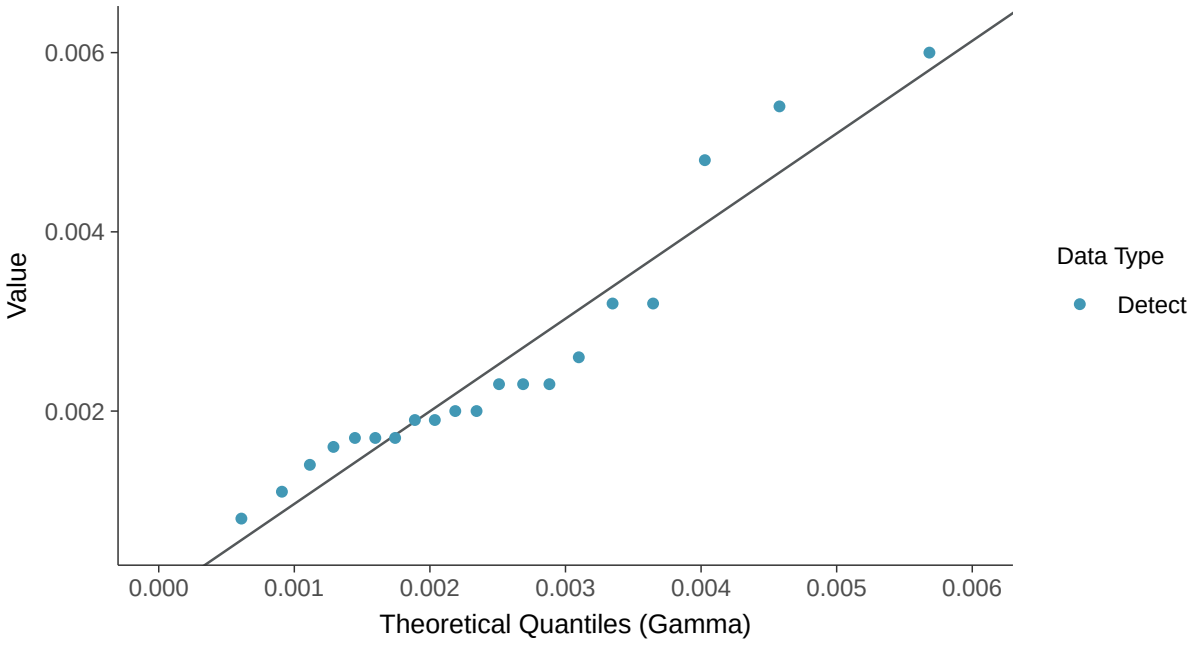
Lognormal Q-Q plot

Cobalt, MW-18 (mg/L)



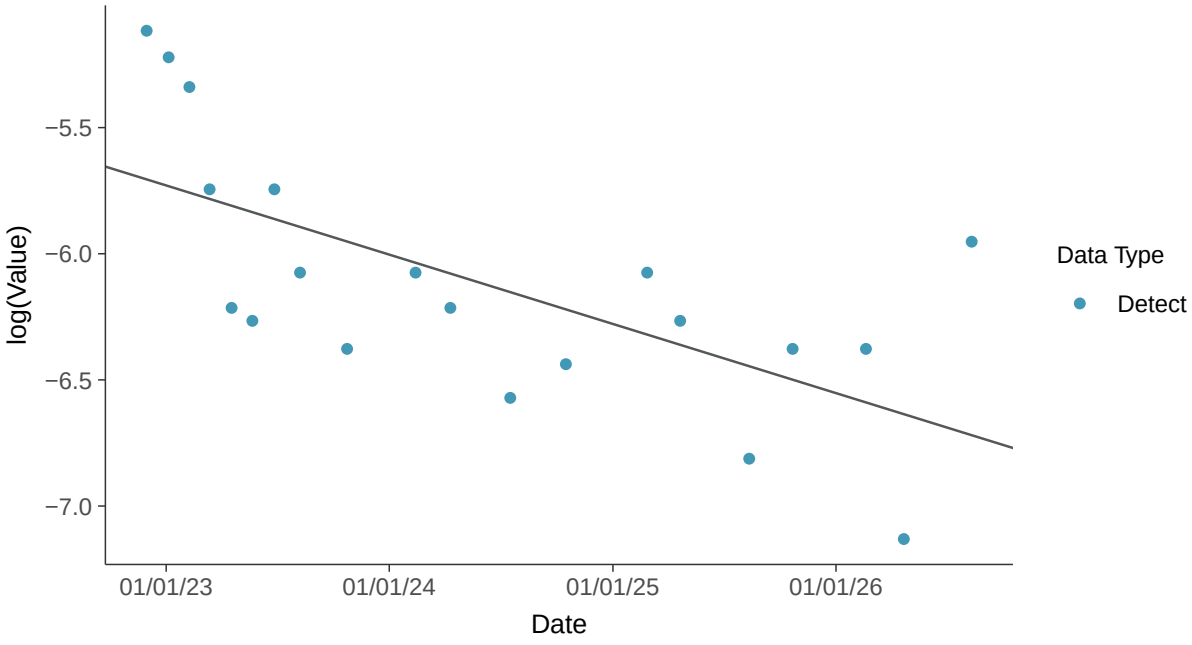
Gamma Q-Q plot

Cobalt, MW-18 (mg/L)



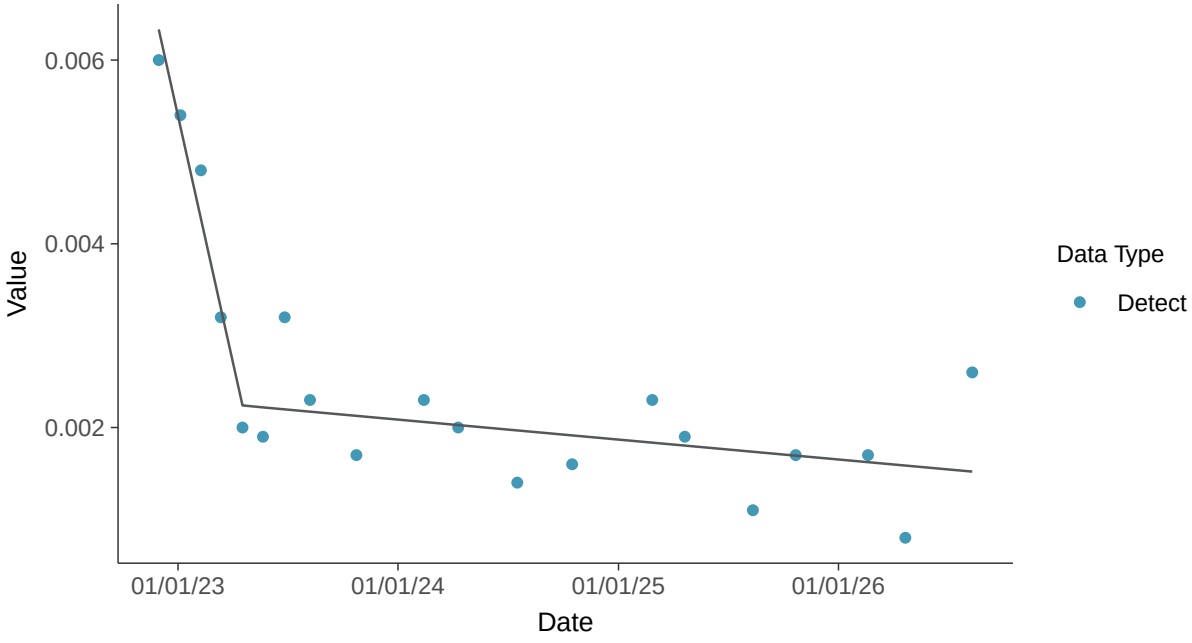
Trend Regression: Lognormal MLE

Cobalt, MW-18 (mg/L)



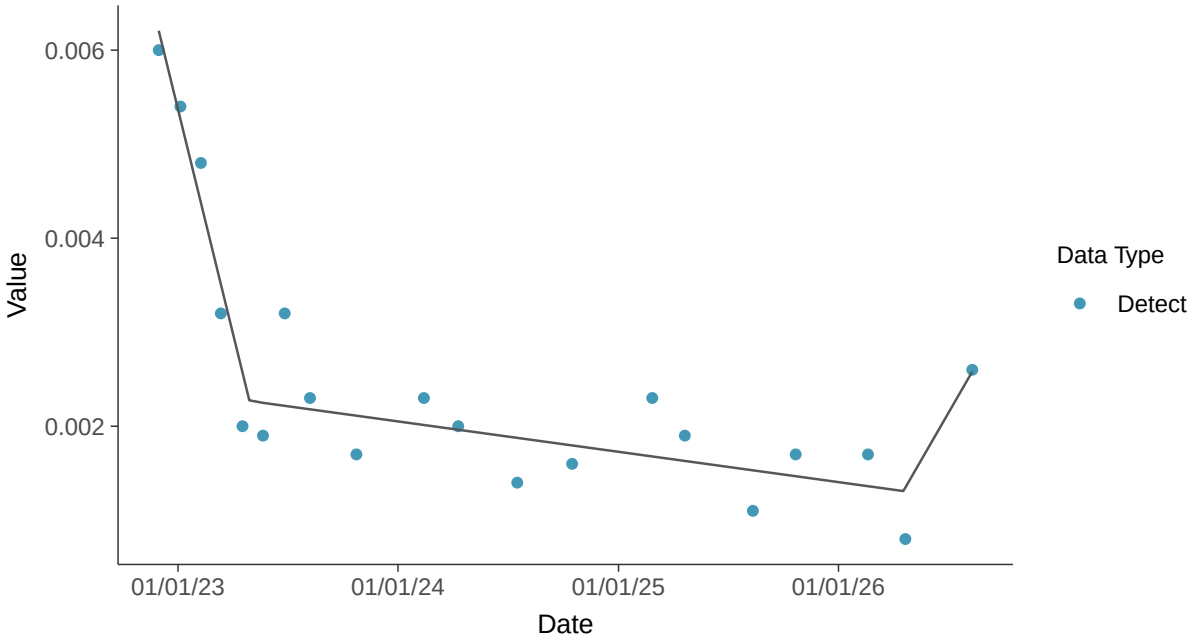
Trend Regression: Piecewise Linear-Linear

Cobalt, MW-18 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Cobalt, MW-18 (mg/L)

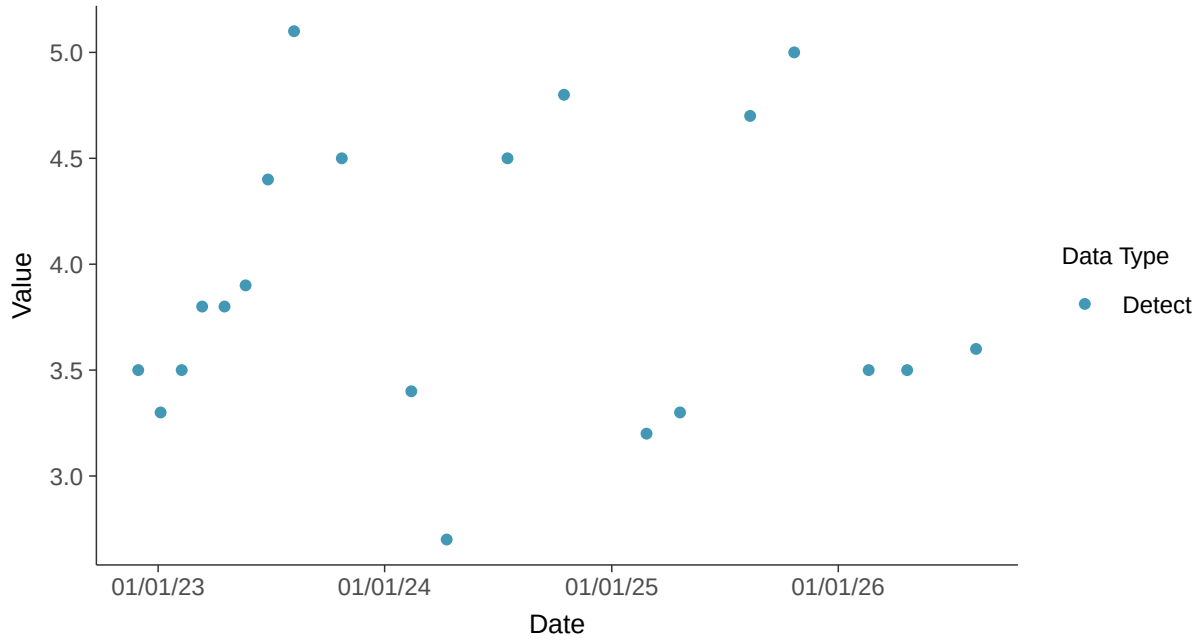


Appendix IV: Fluoride (App IV), MW-18

ID: 28_1_4_113

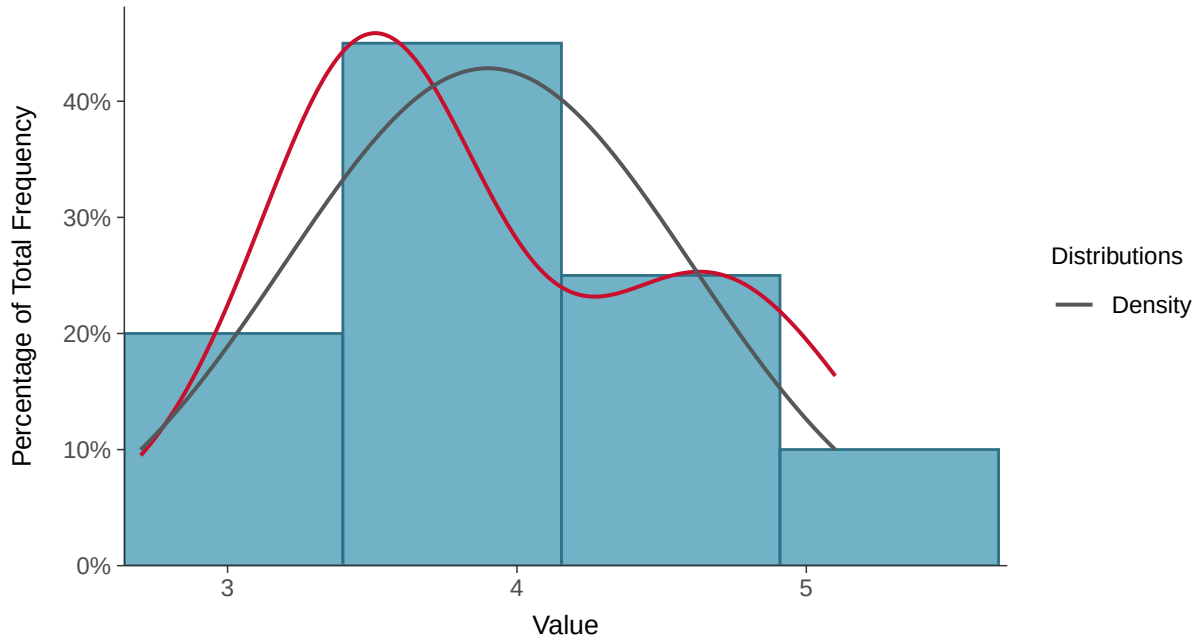
Scatter Plot

Fluoride (App IV), MW-18 (mg/L)



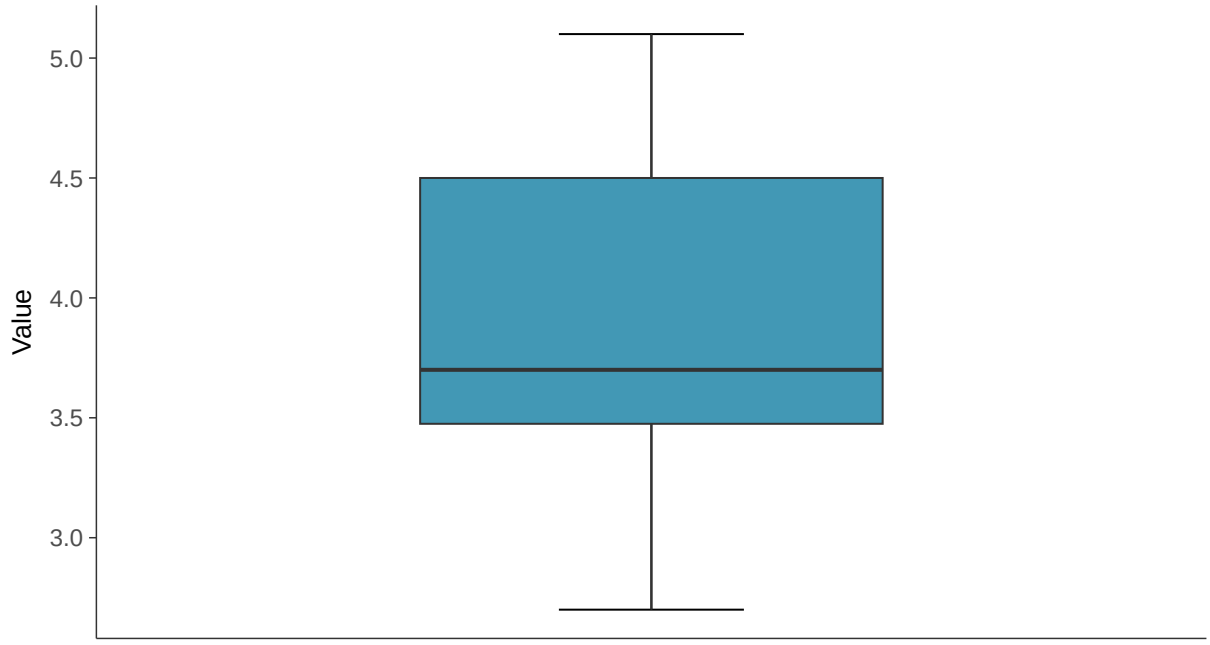
Histogram

Fluoride (App IV), MW-18 (mg/L)



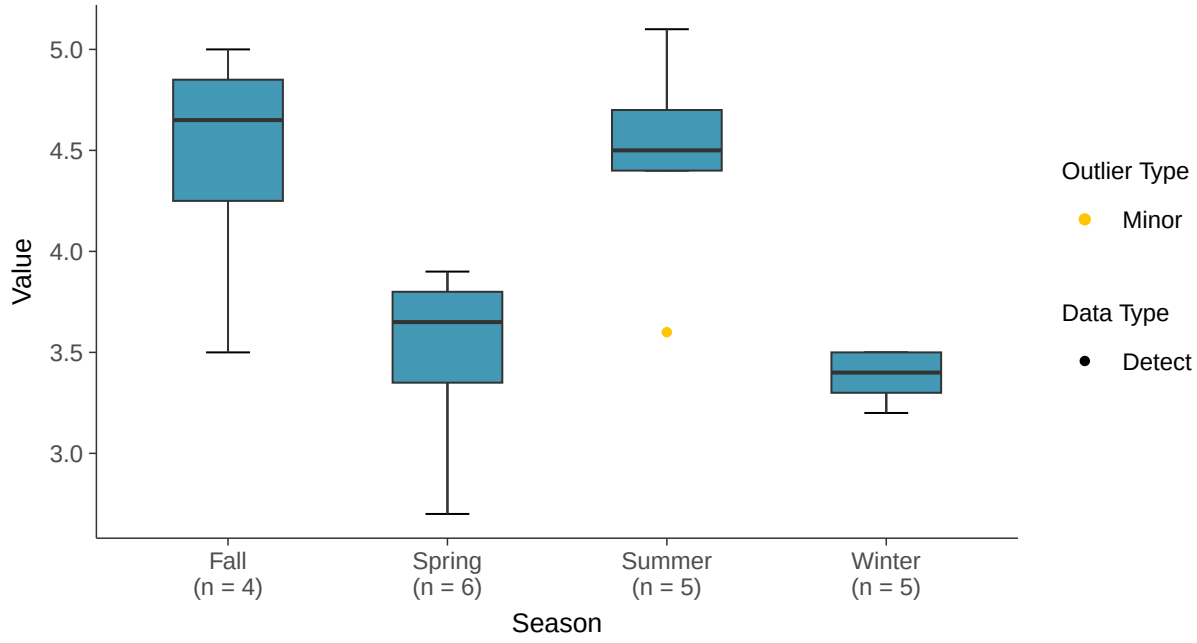
Boxplot

Fluoride (App IV), MW-18 (mg/L)



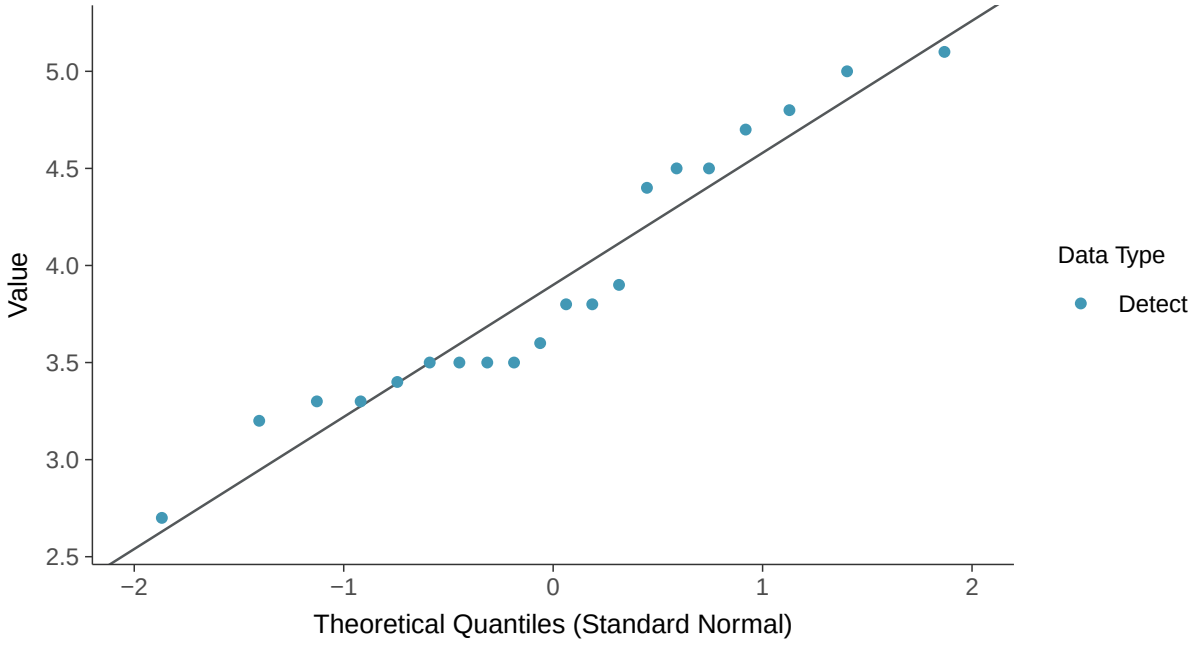
Boxplot by Season

Fluoride (App IV), MW-18 (mg/L)



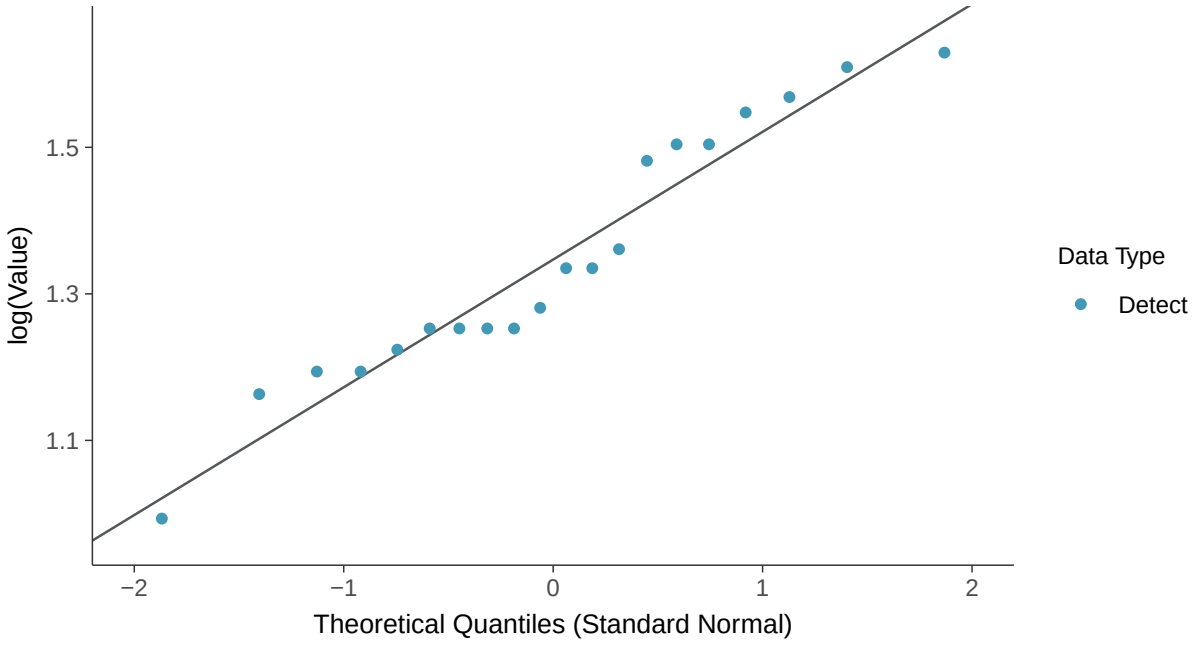
Normal Q-Q plot

Fluoride (App IV), MW-18 (mg/L)



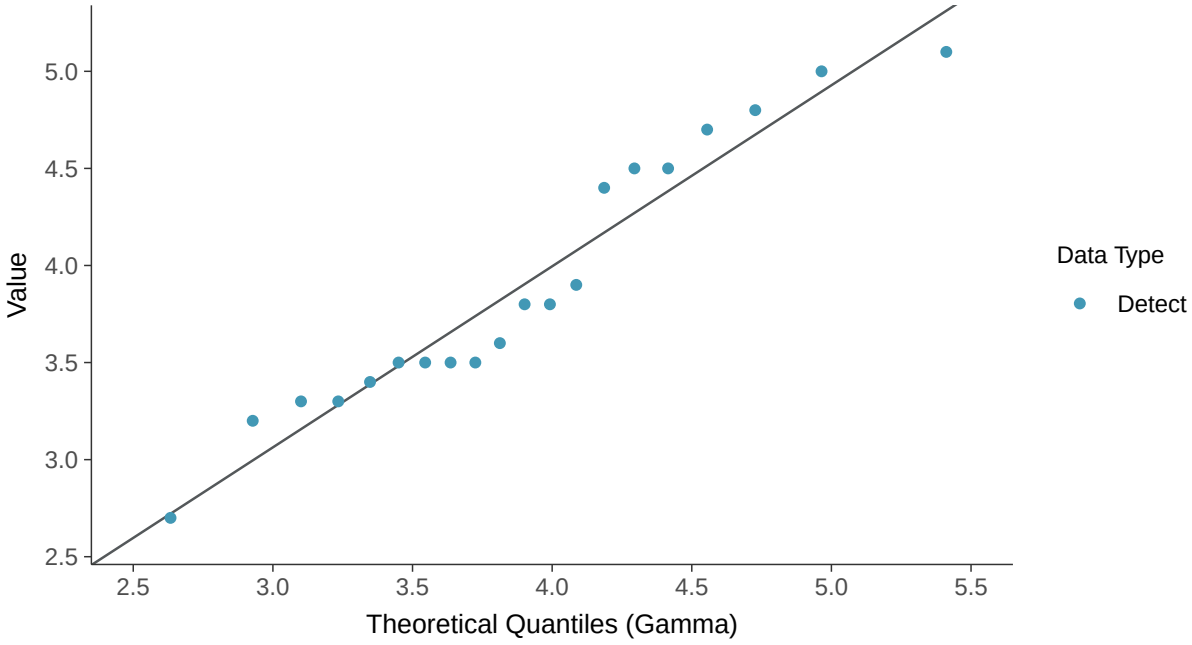
Lognormal Q-Q plot

Fluoride (App IV), MW-18 (mg/L)



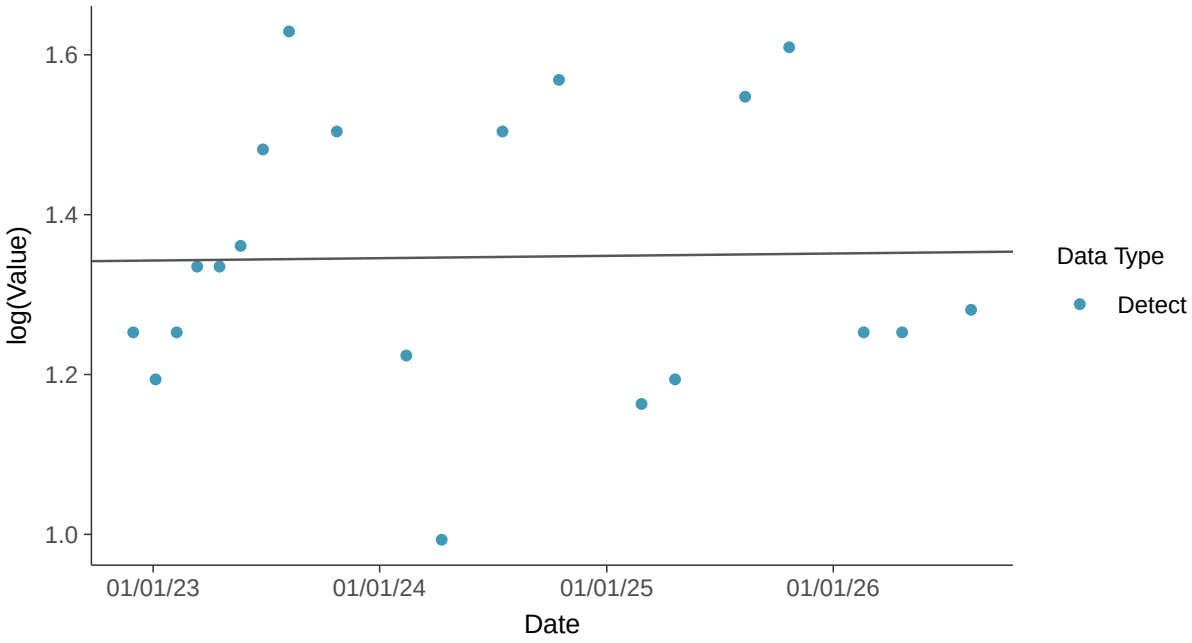
Gamma Q-Q plot

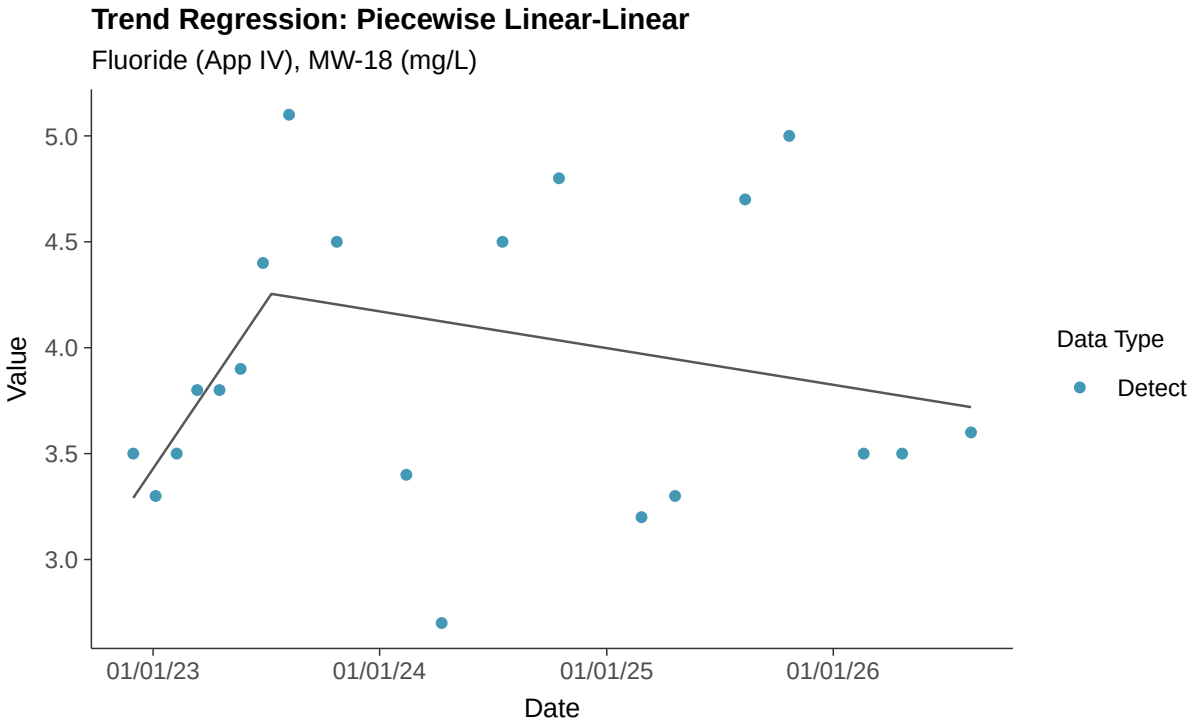
Fluoride (App IV), MW-18 (mg/L)



Trend Regression: Lognormal MLE

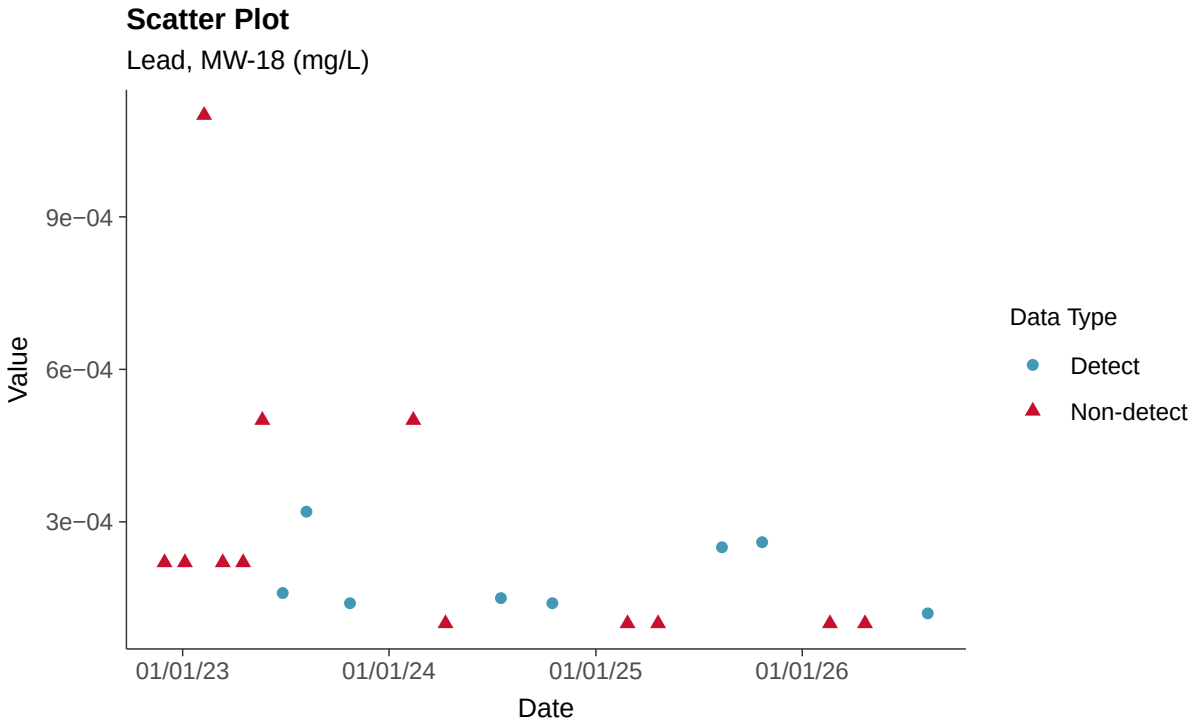
Fluoride (App IV), MW-18 (mg/L)

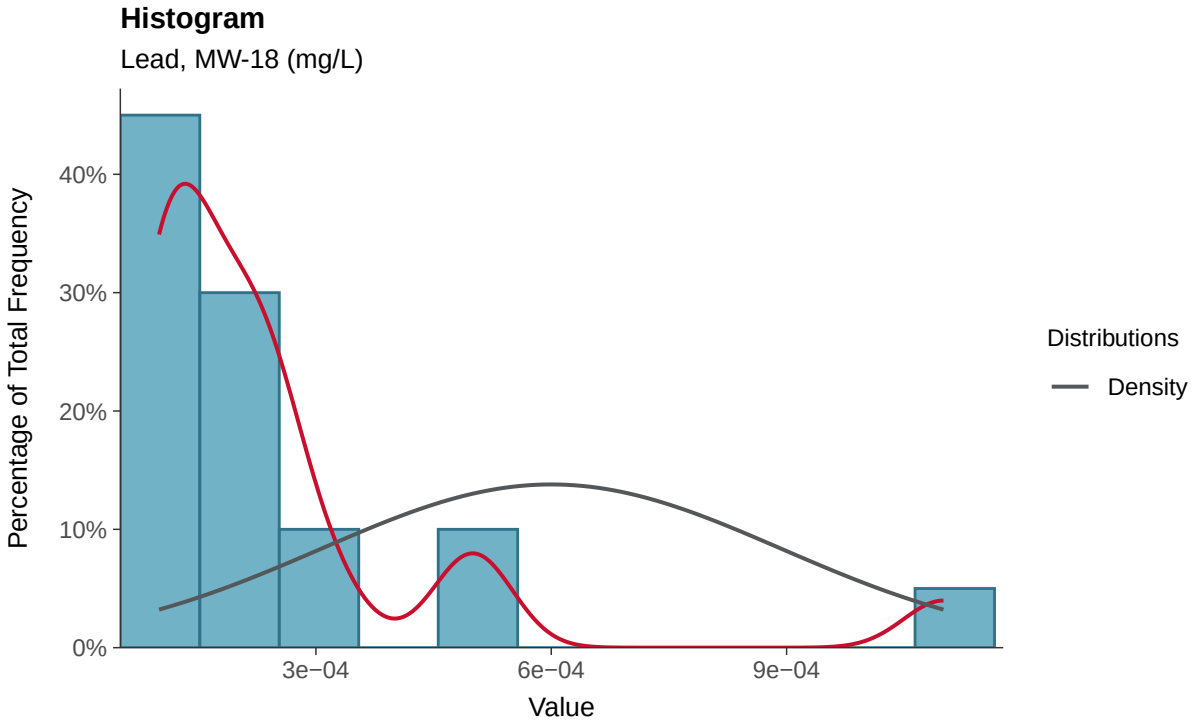



Trend Regression: Piecewise Linear-Linear
Fluoride (App IV), MW-18 (mg/L)
Value
5.0
4.5
4.0
3.5
3.0
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect

Appendix IV: Lead, MW-18

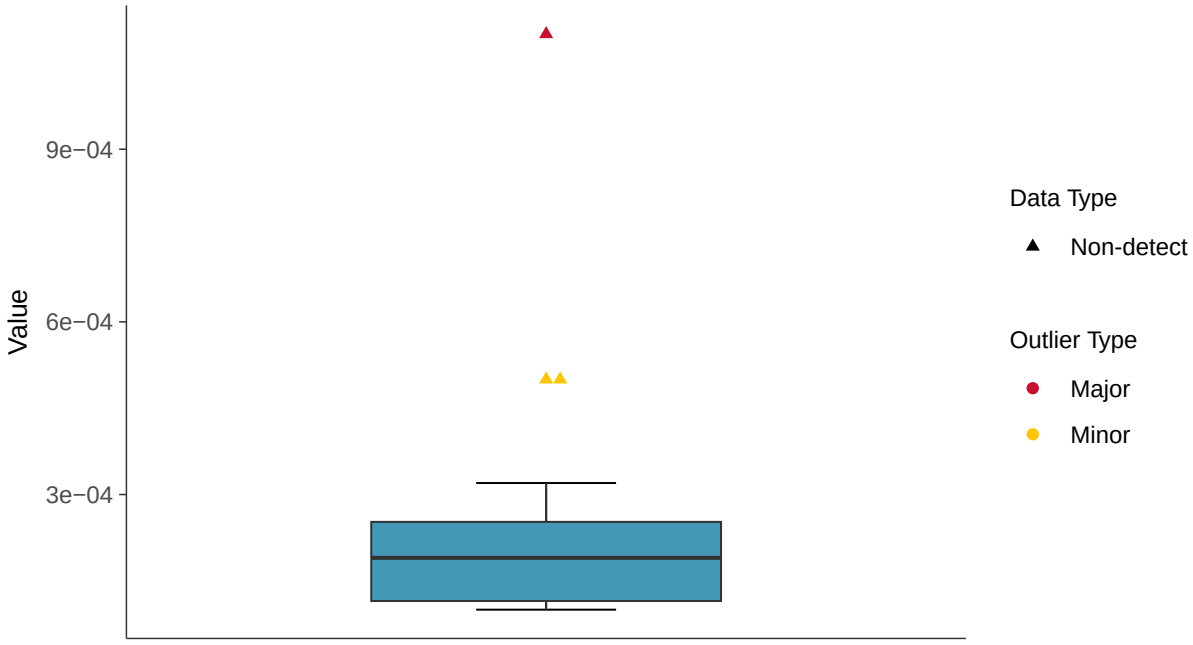
ID: 28_1_4_115





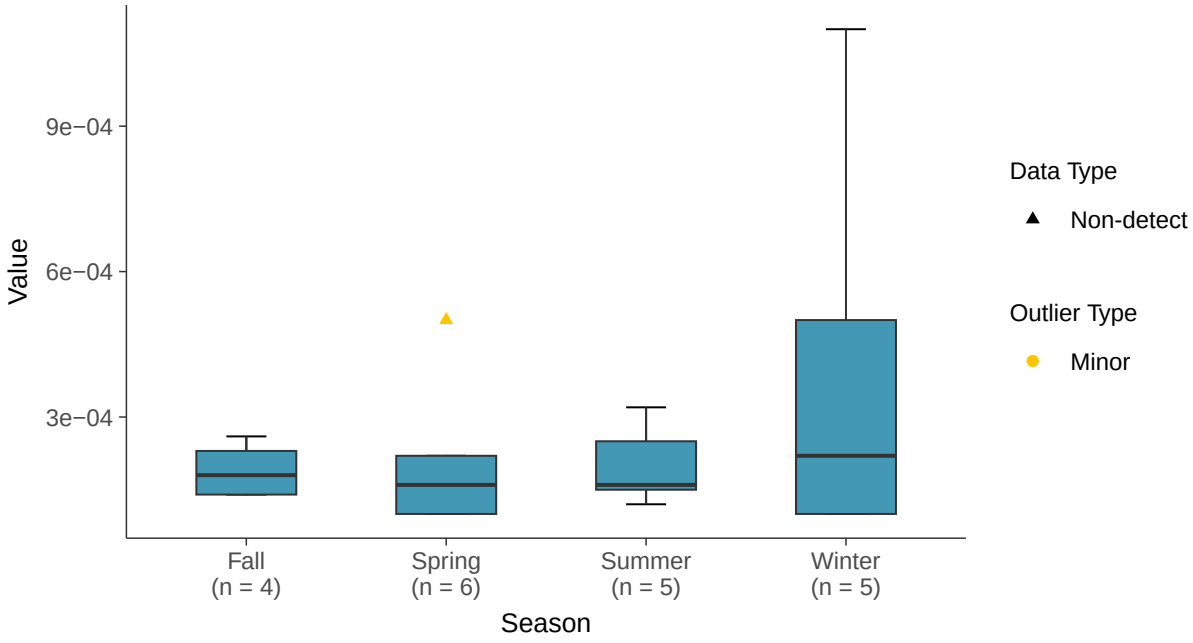
Boxplot

Lead, MW-18 (mg/L)



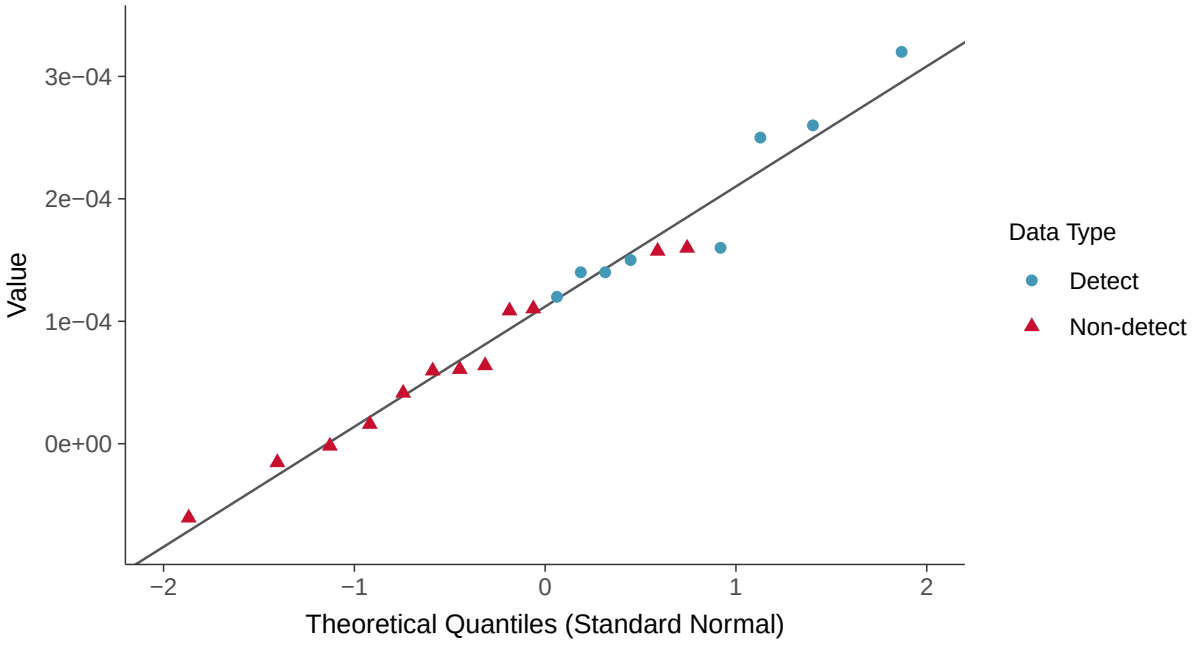
Boxplot by Season

Lead, MW-18 (mg/L)



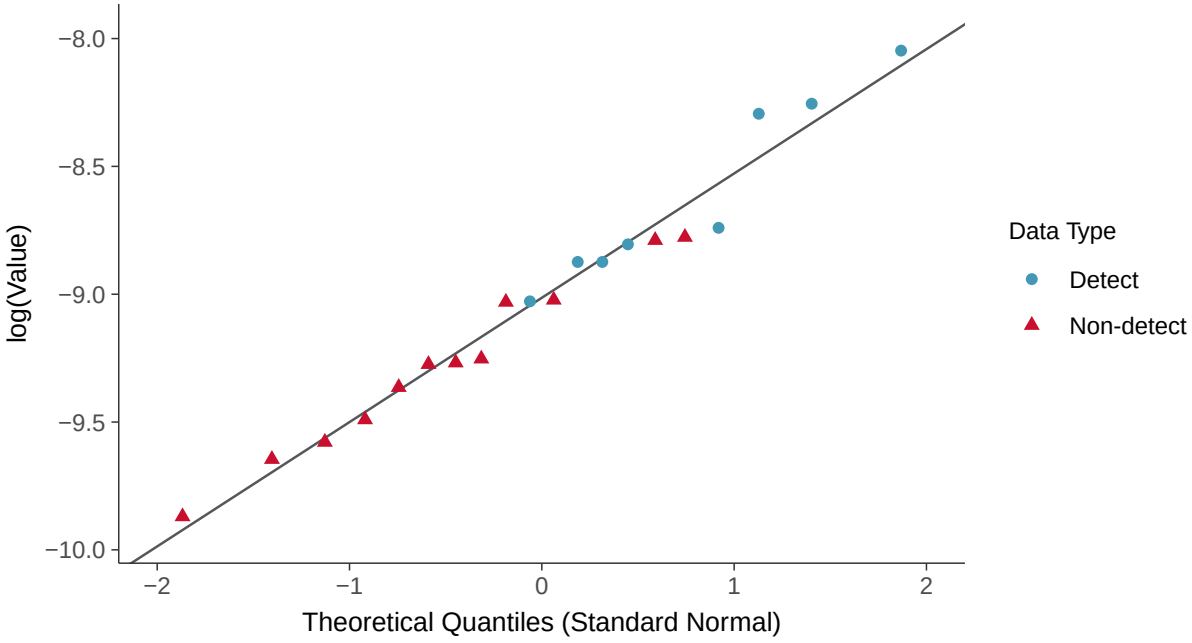
Normal Q-Q plot using ROS Imputed Estimates

Lead, MW-18 (mg/L)



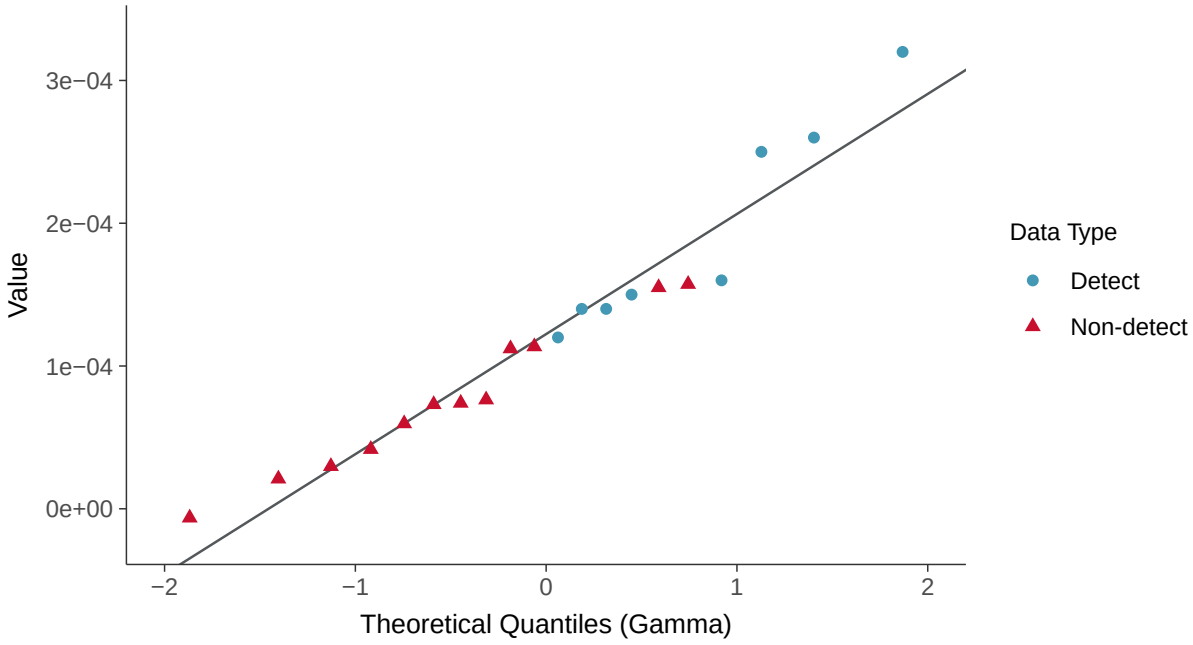
Lognormal Q-Q plot using ROS Imputed Estimates

Lead, MW-18 (mg/L)



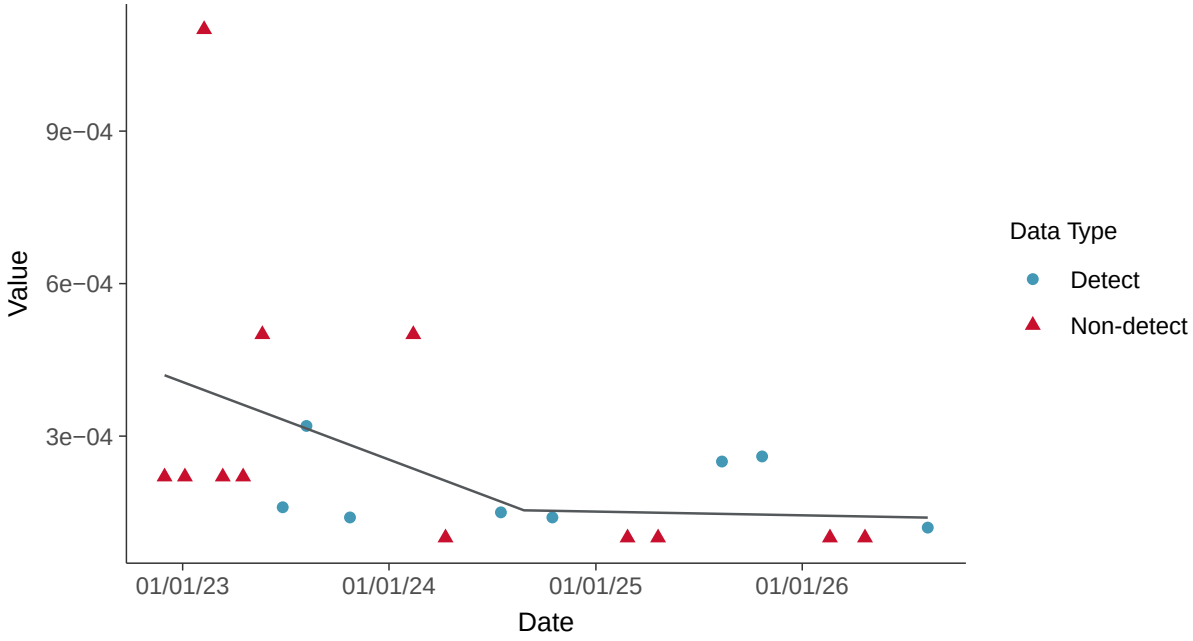
Gamma Q-Q plot using ROS Imputed Estimates

Lead, MW-18 (mg/L)



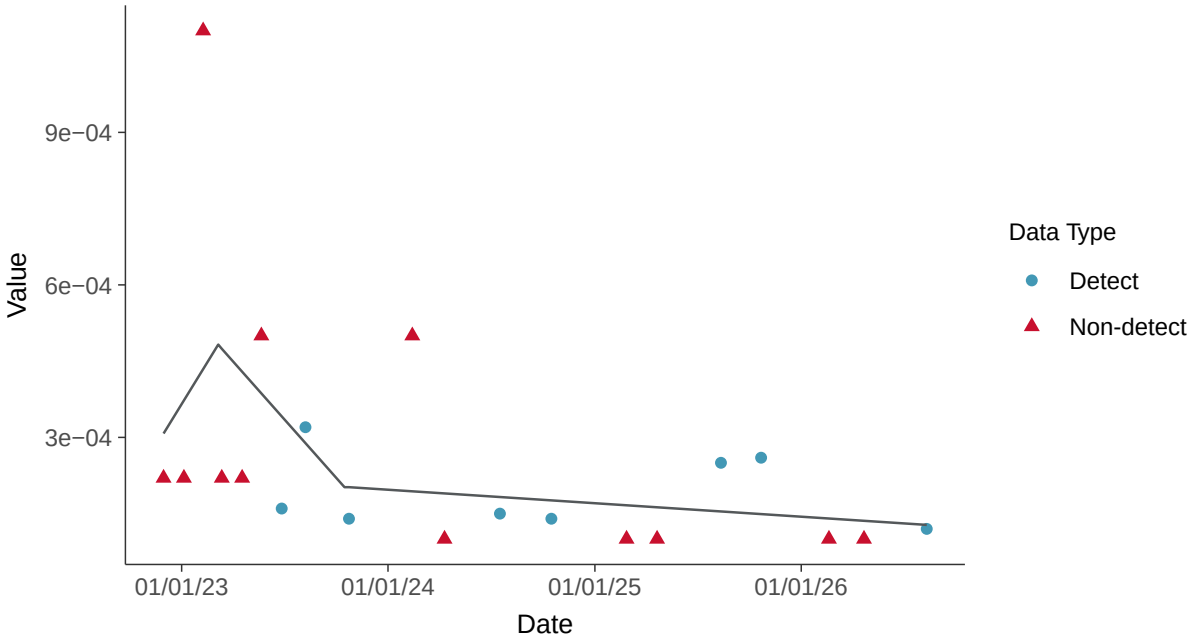
Trend Regression: Piecewise Linear-Linear

Lead, MW-18 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Lead, MW-18 (mg/L)

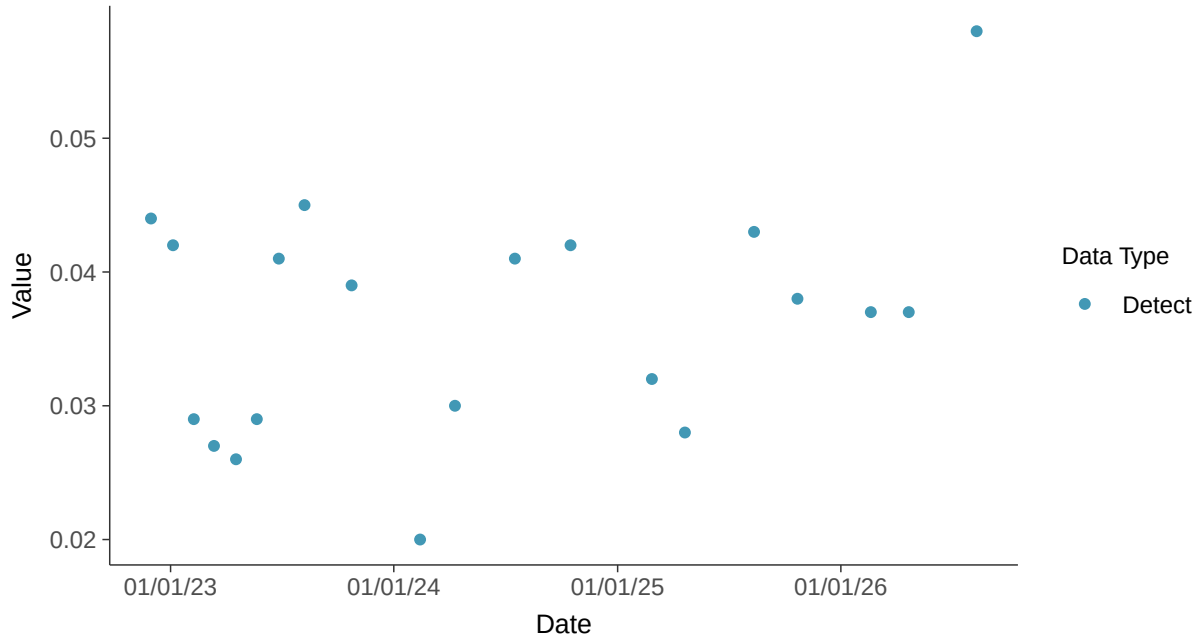


Appendix IV: Lithium, MW-18

ID: 28_1_4_116

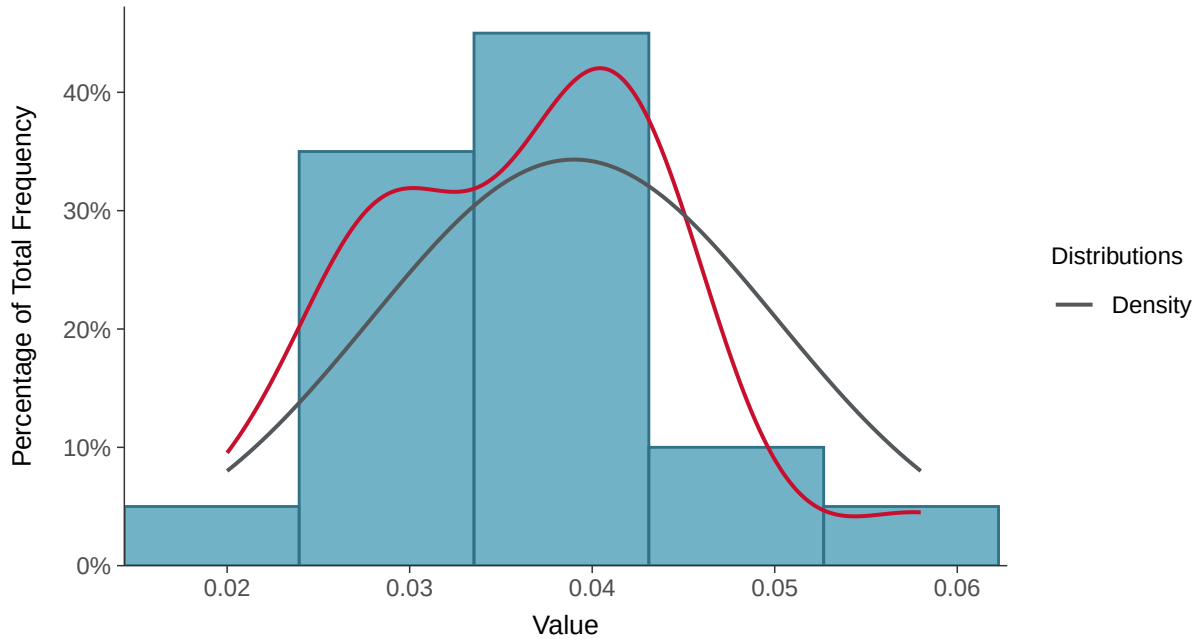
Scatter Plot

Lithium, MW-18 (mg/L)



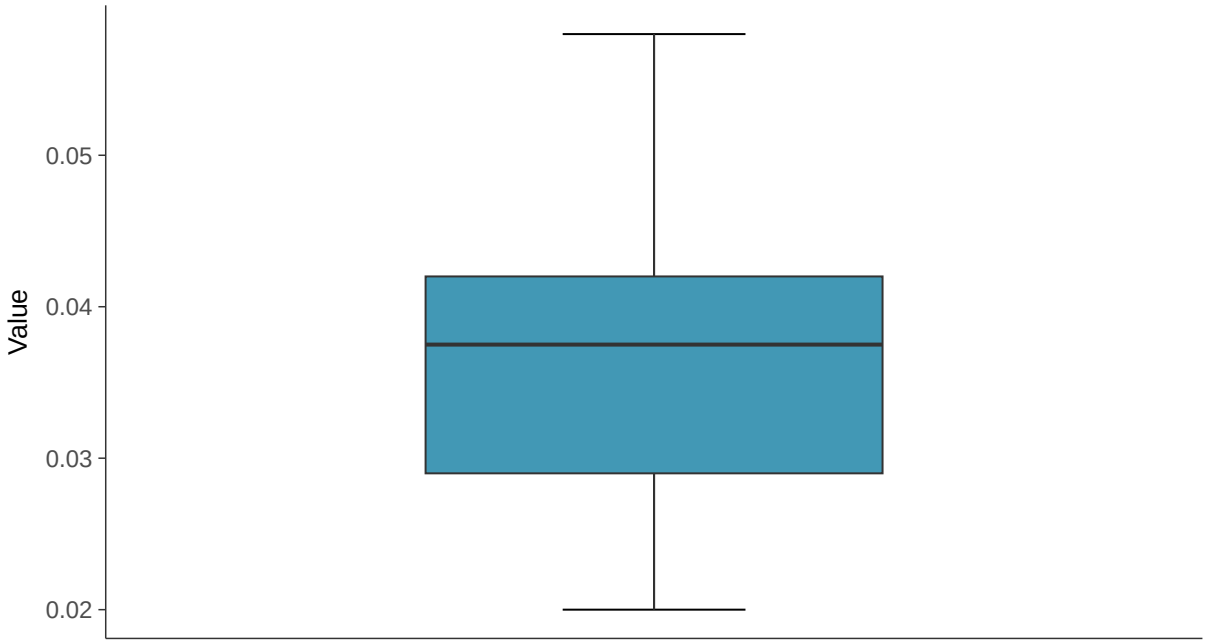
Histogram

Lithium, MW-18 (mg/L)



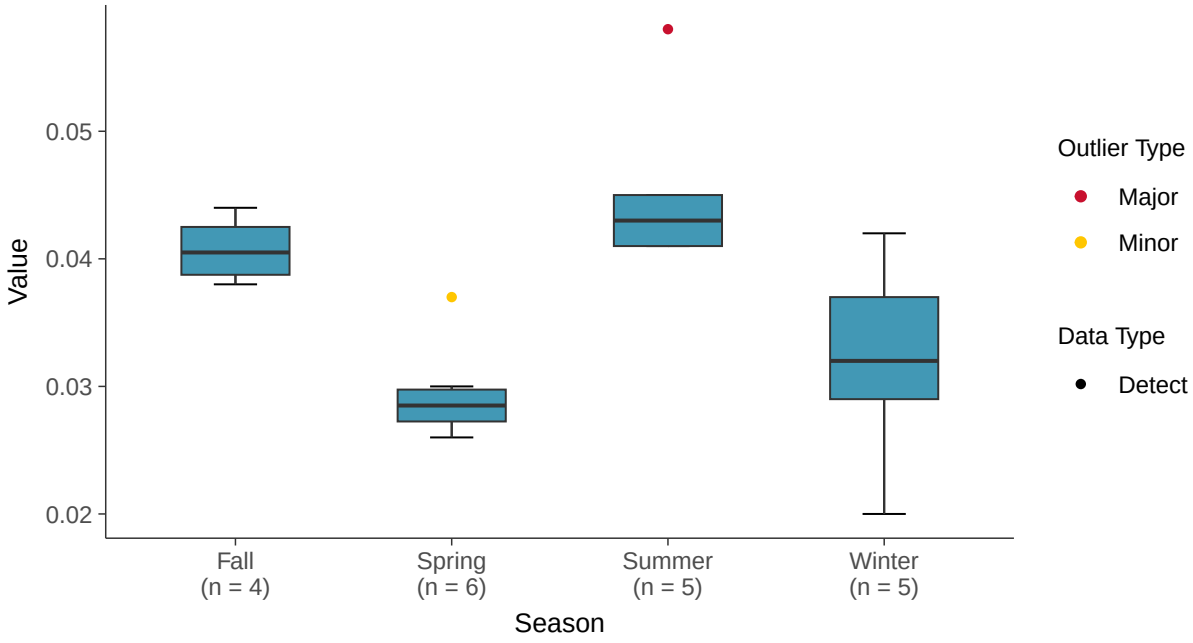
Boxplot

Lithium, MW-18 (mg/L)



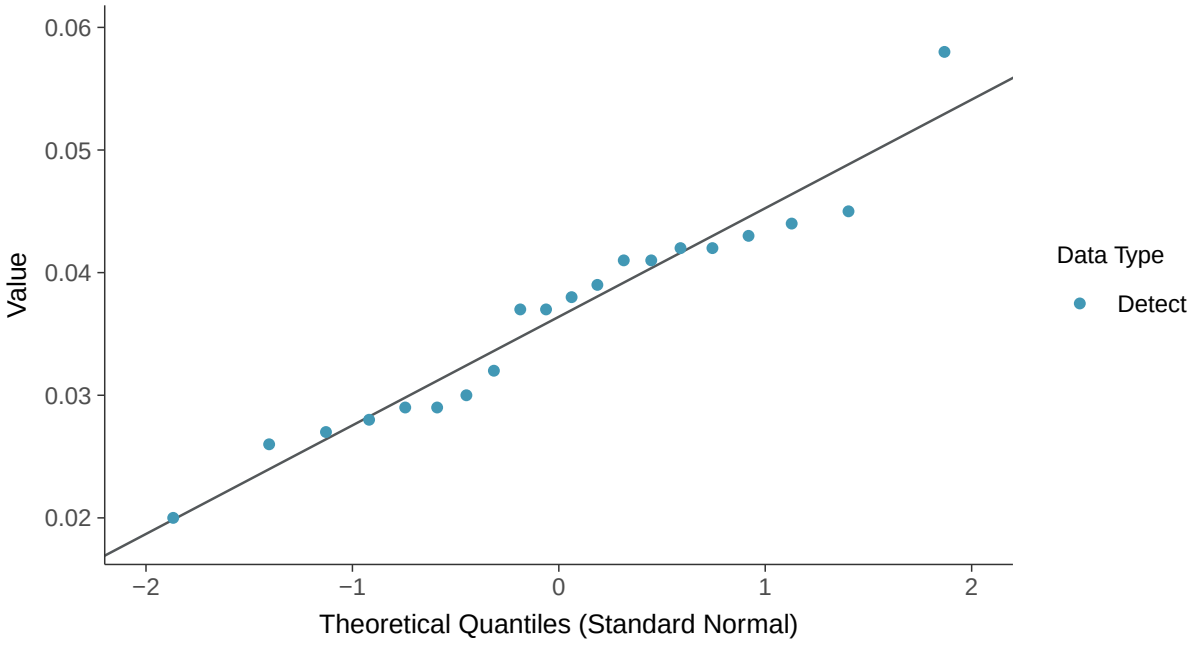
Boxplot by Season

Lithium, MW-18 (mg/L)



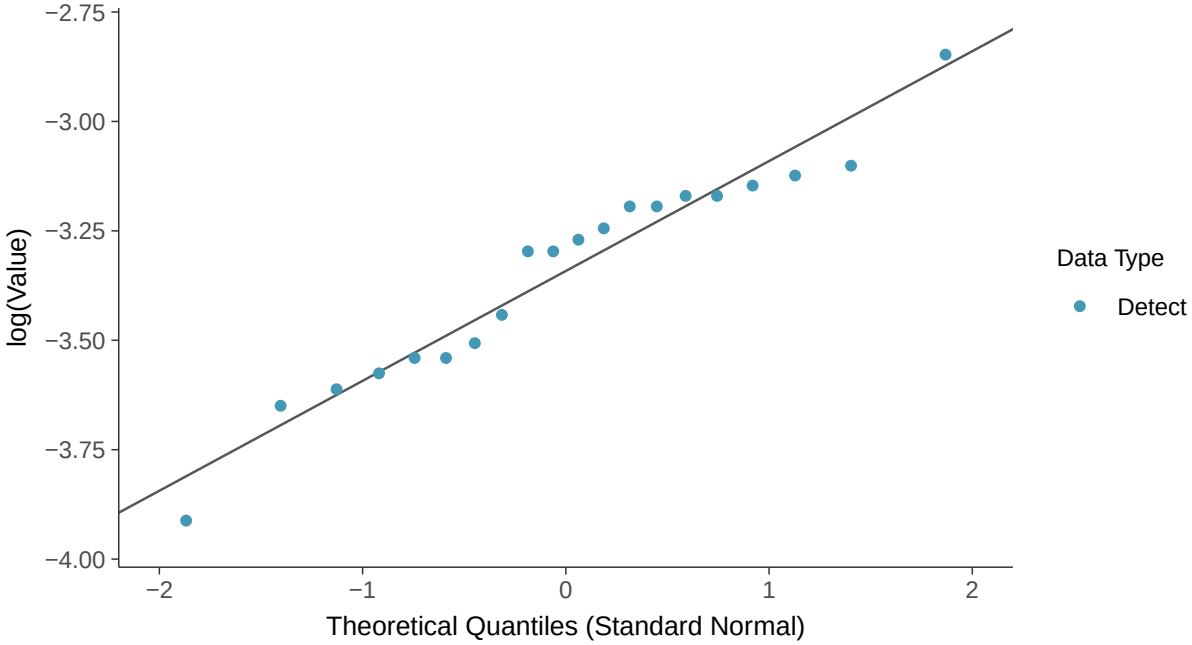
Normal Q-Q plot

Lithium, MW-18 (mg/L)



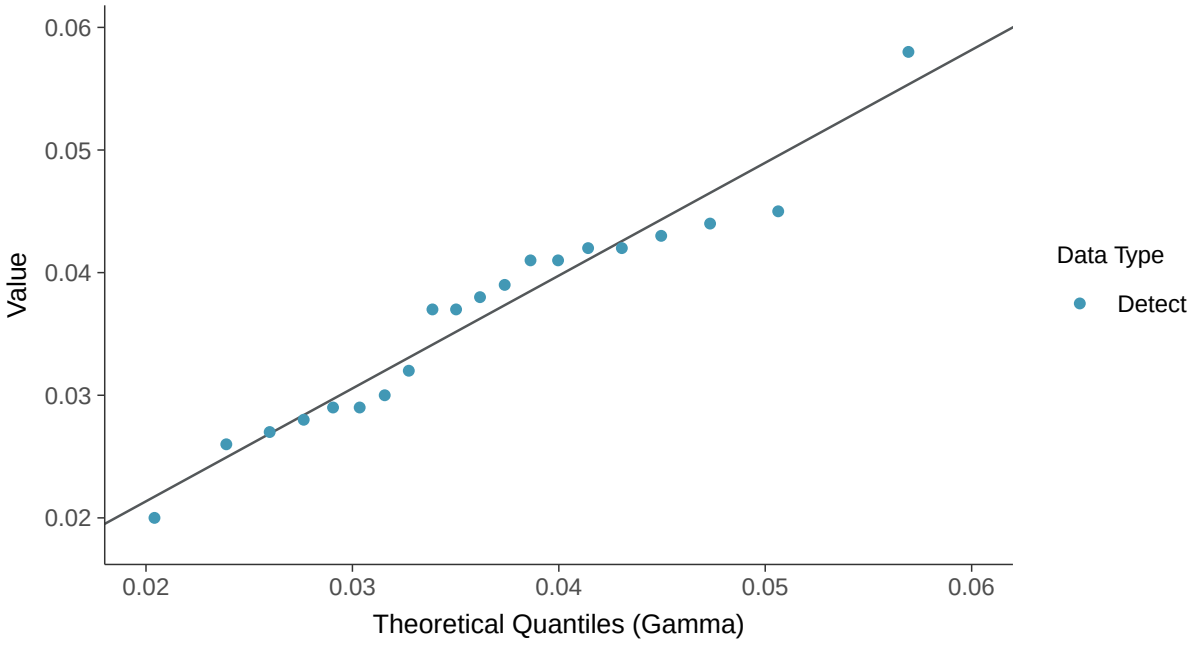
Lognormal Q-Q plot

Lithium, MW-18 (mg/L)



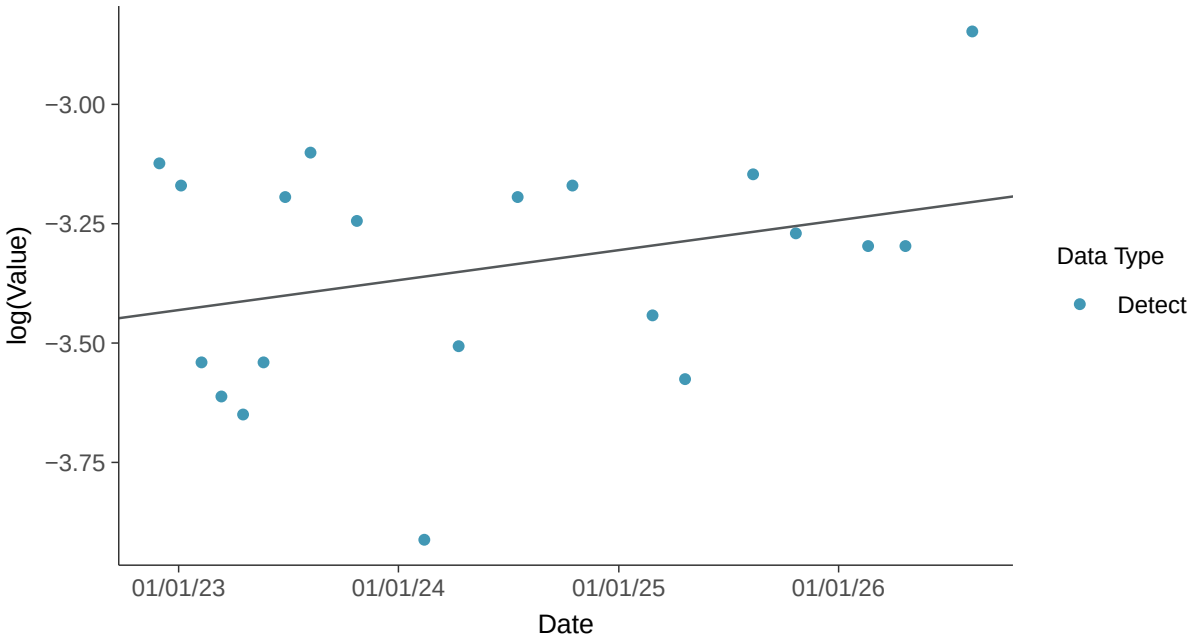
Gamma Q-Q plot

Lithium, MW-18 (mg/L)



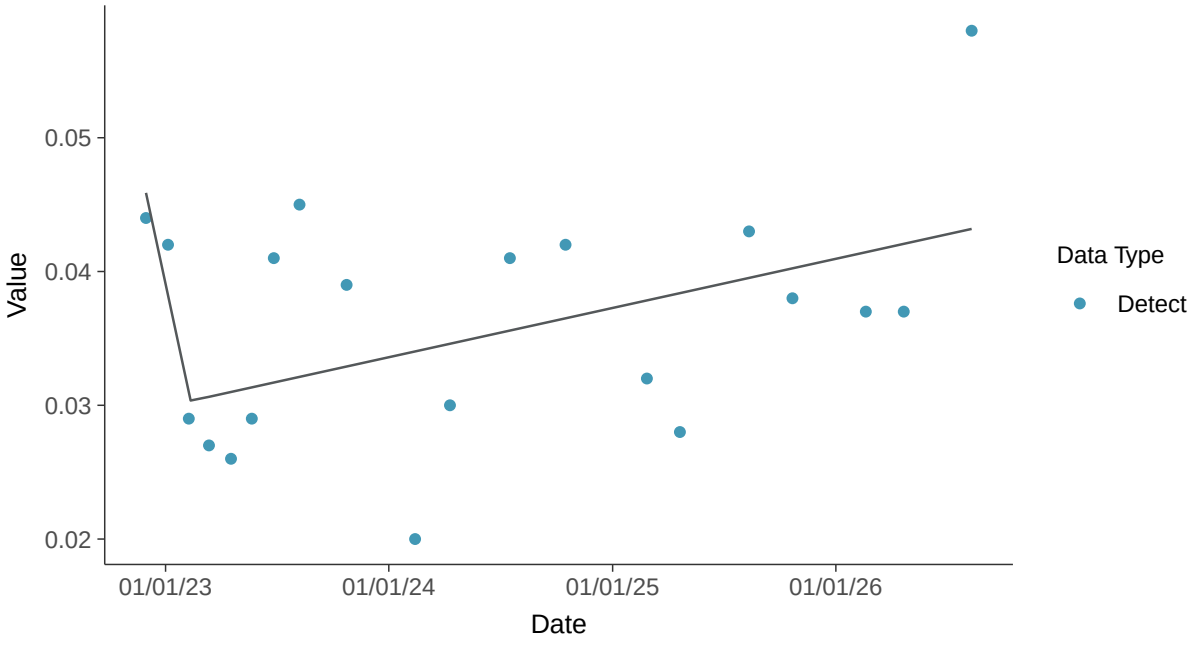
Trend Regression: Lognormal MLE

Lithium, MW-18 (mg/L)



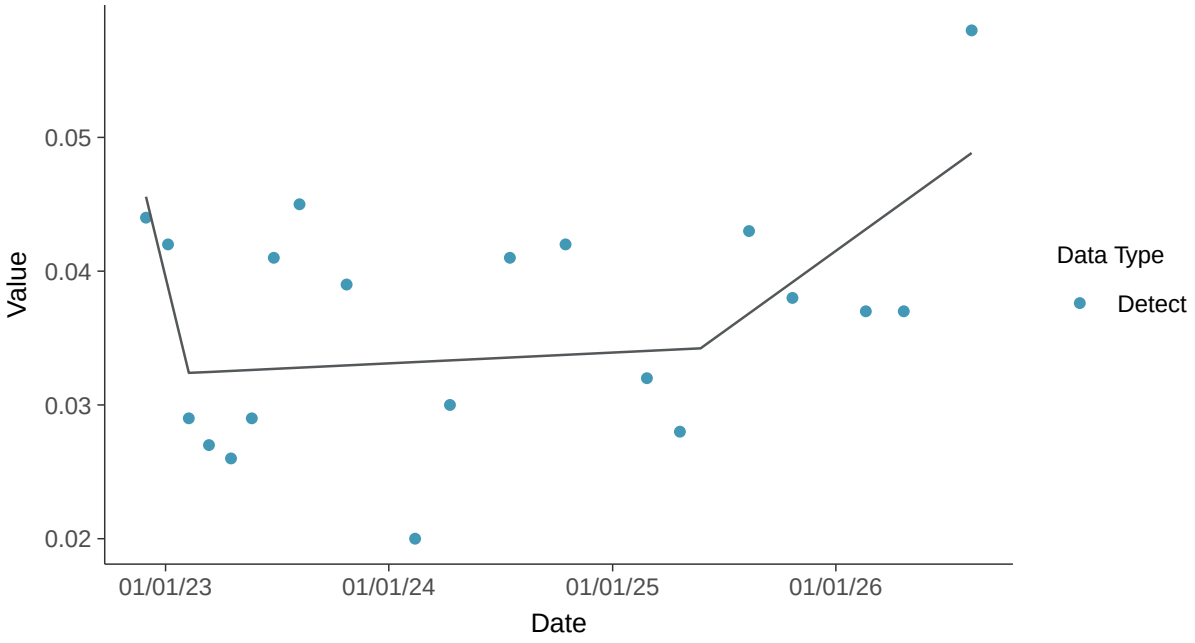
Trend Regression: Piecewise Linear-Linear

Lithium, MW-18 (mg/L)



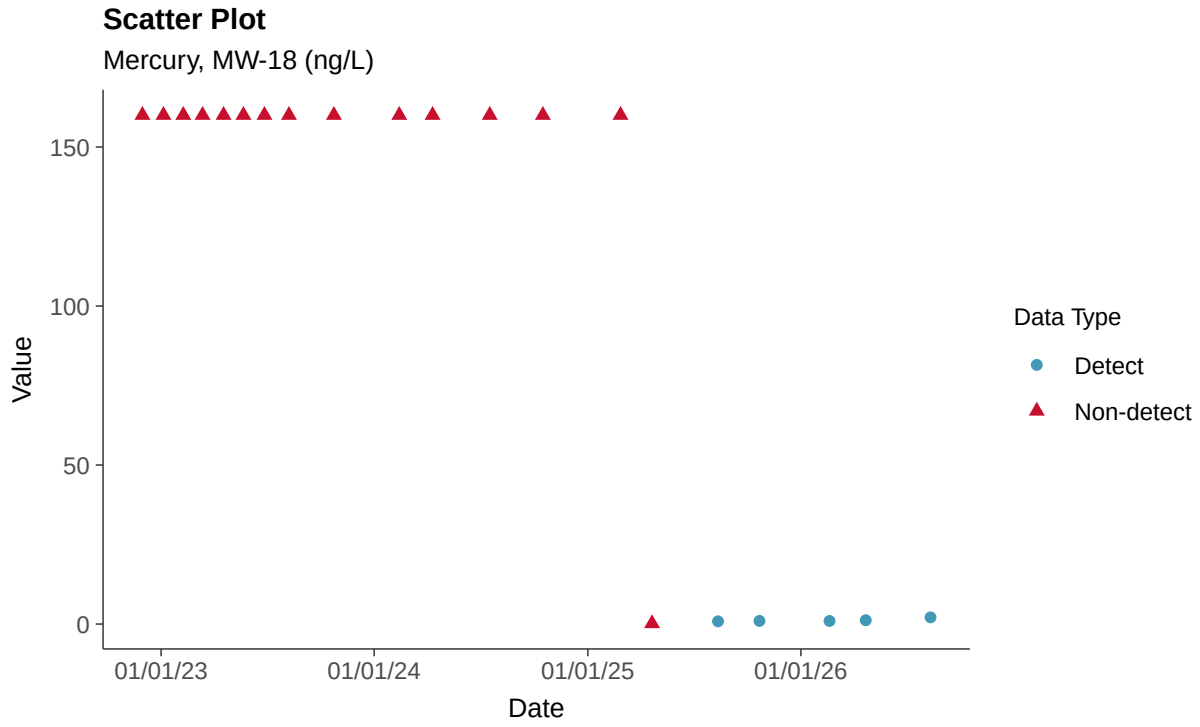
Trend Regression: Piecewise Linear-Linear-Linear

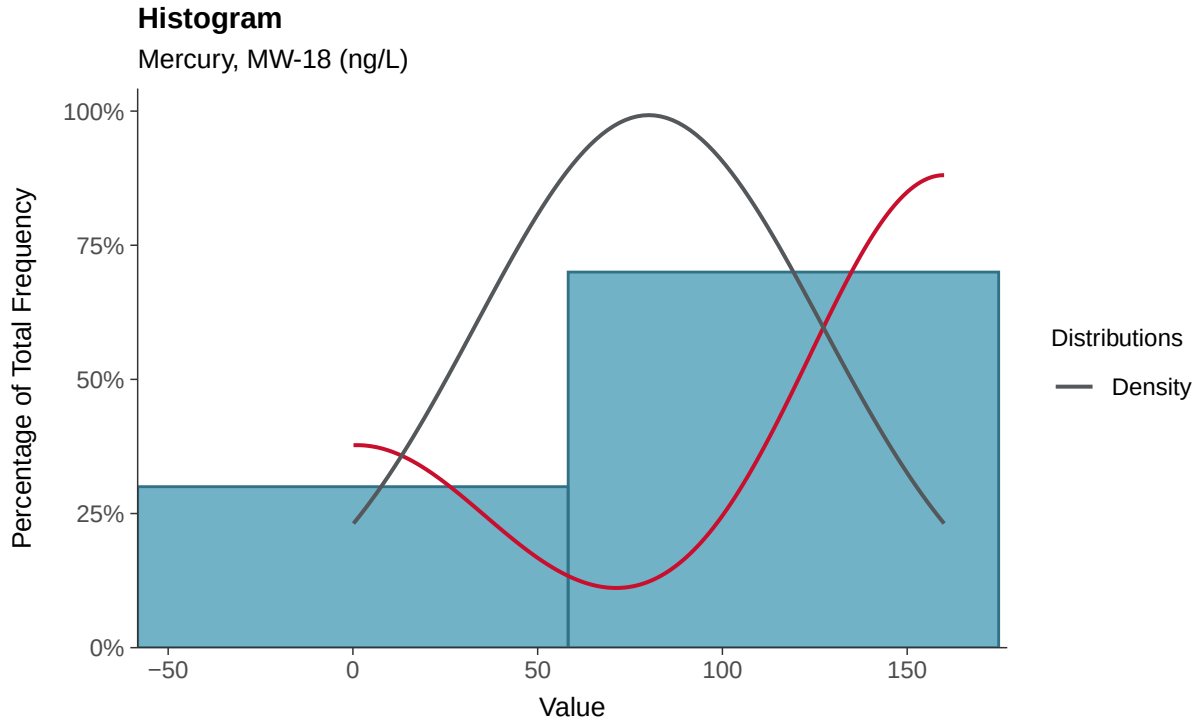
Lithium, MW-18 (mg/L)



Appendix IV: Mercury, MW-18

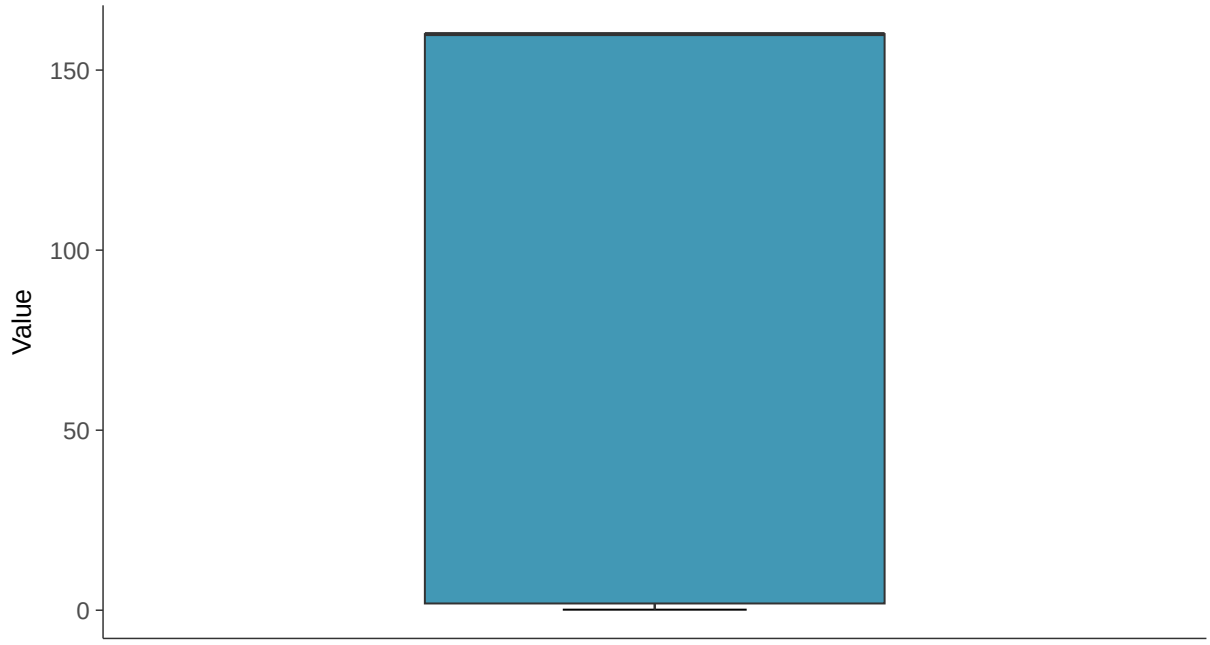
ID: 28_1_4_117





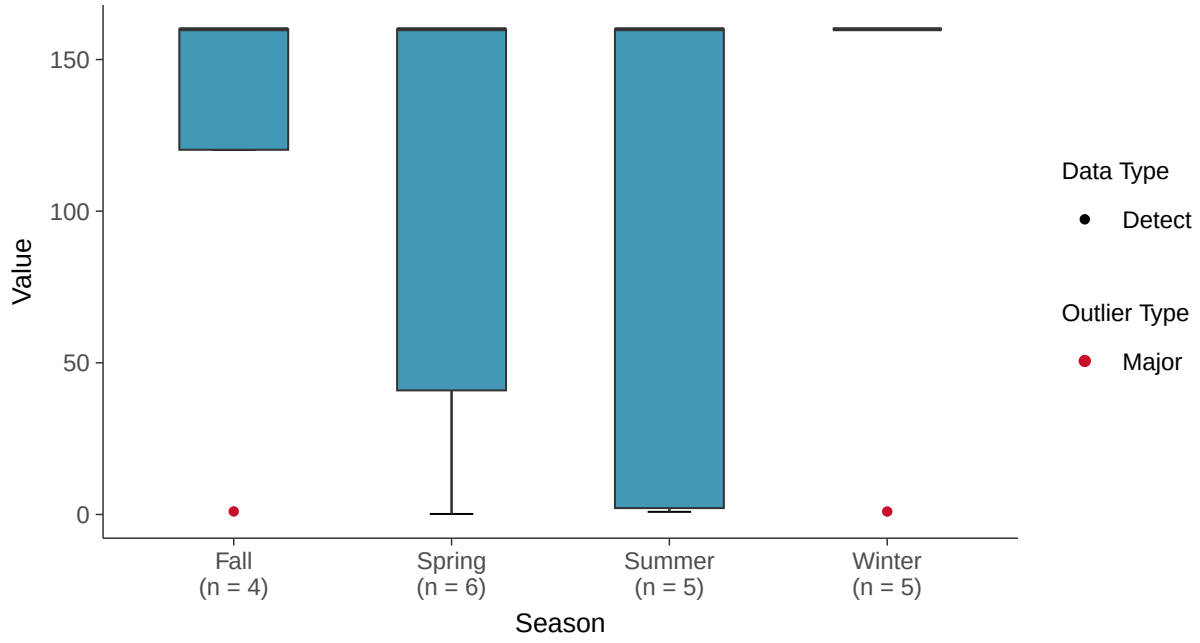
Boxplot

Mercury, MW-18 (ng/L)



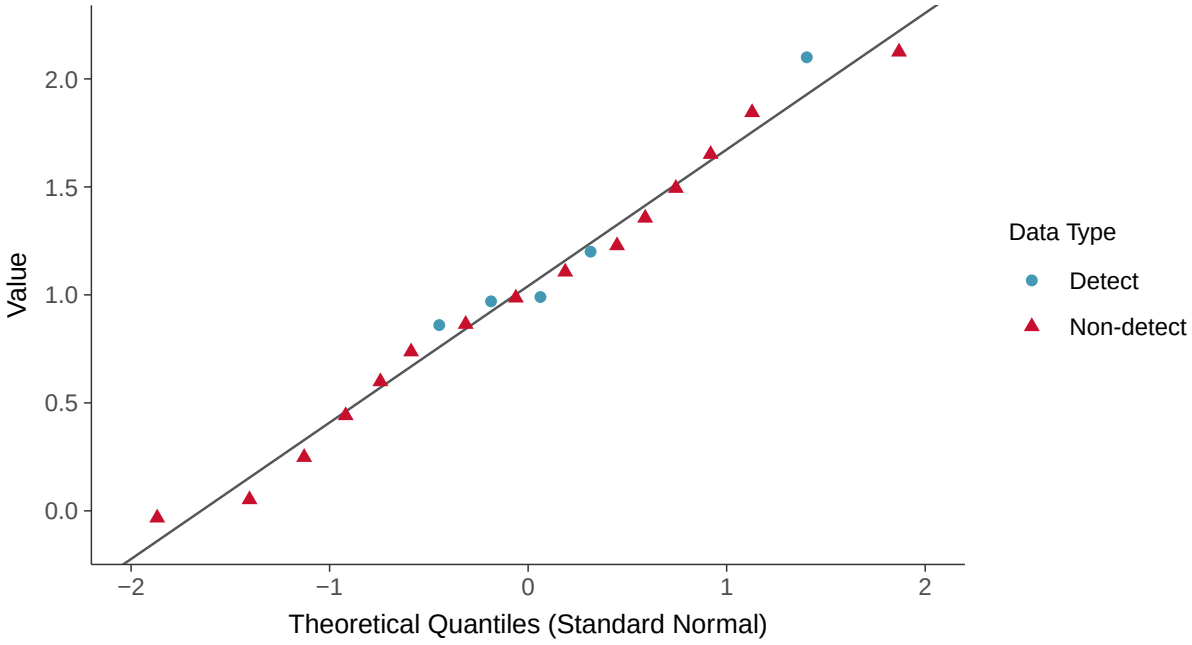
Boxplot by Season

Mercury, MW-18 (ng/L)



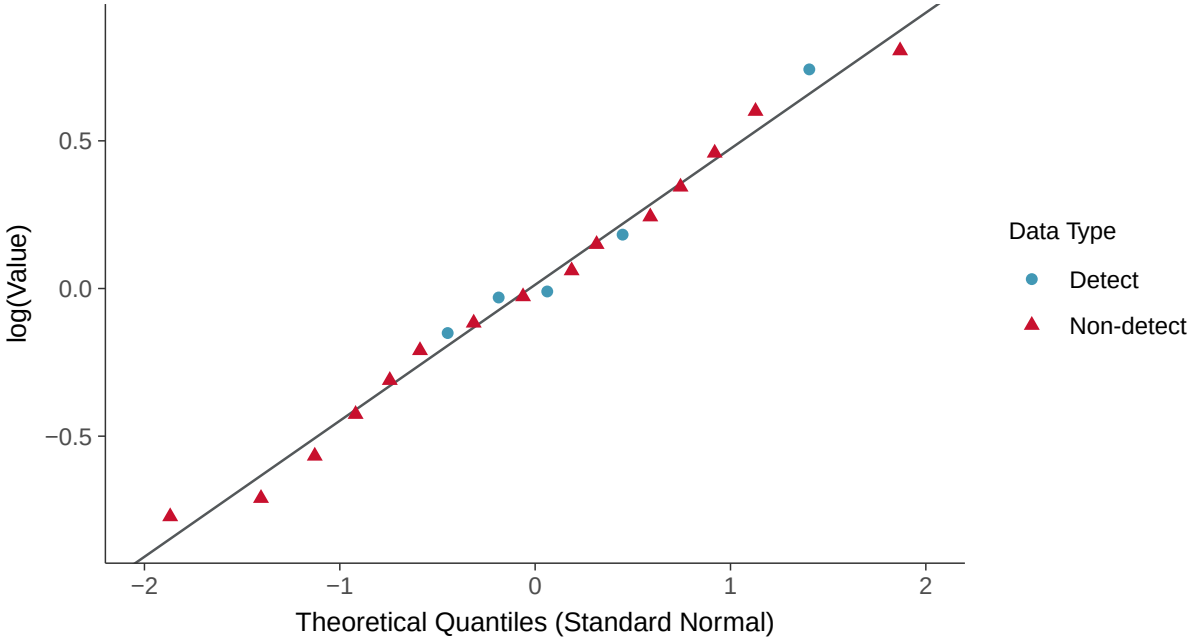
Normal Q-Q plot using ROS Imputed Estimates

Mercury, MW-18 (ng/L)



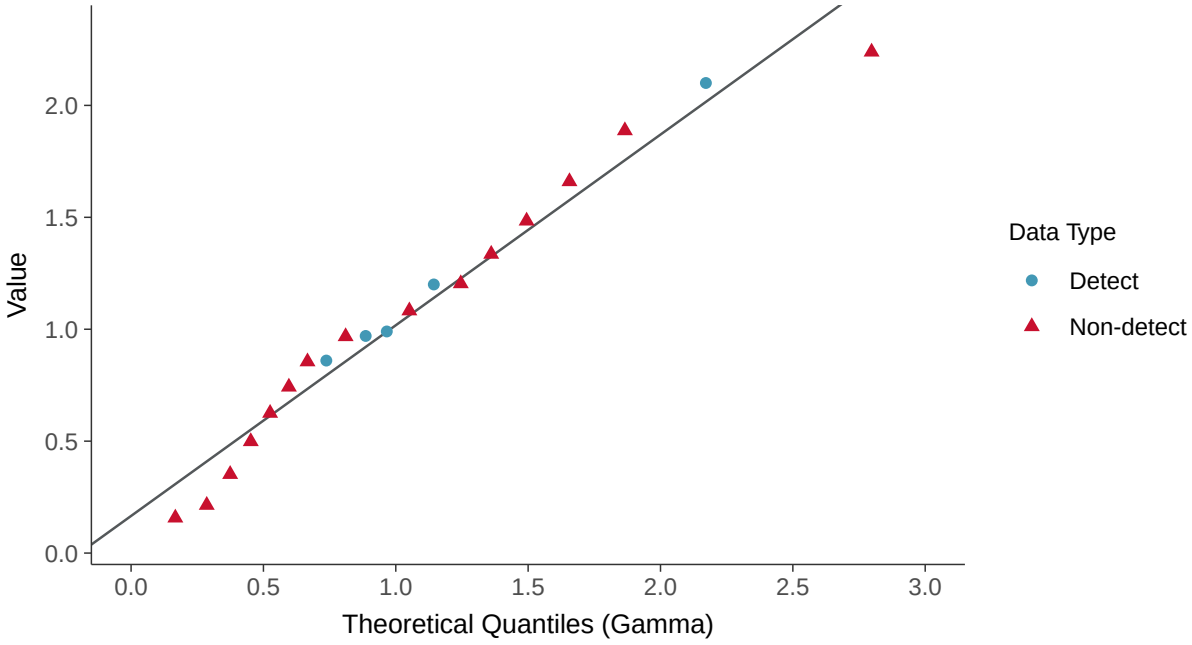
Lognormal Q-Q plot using ROS Imputed Estimates

Mercury, MW-18 (ng/L)



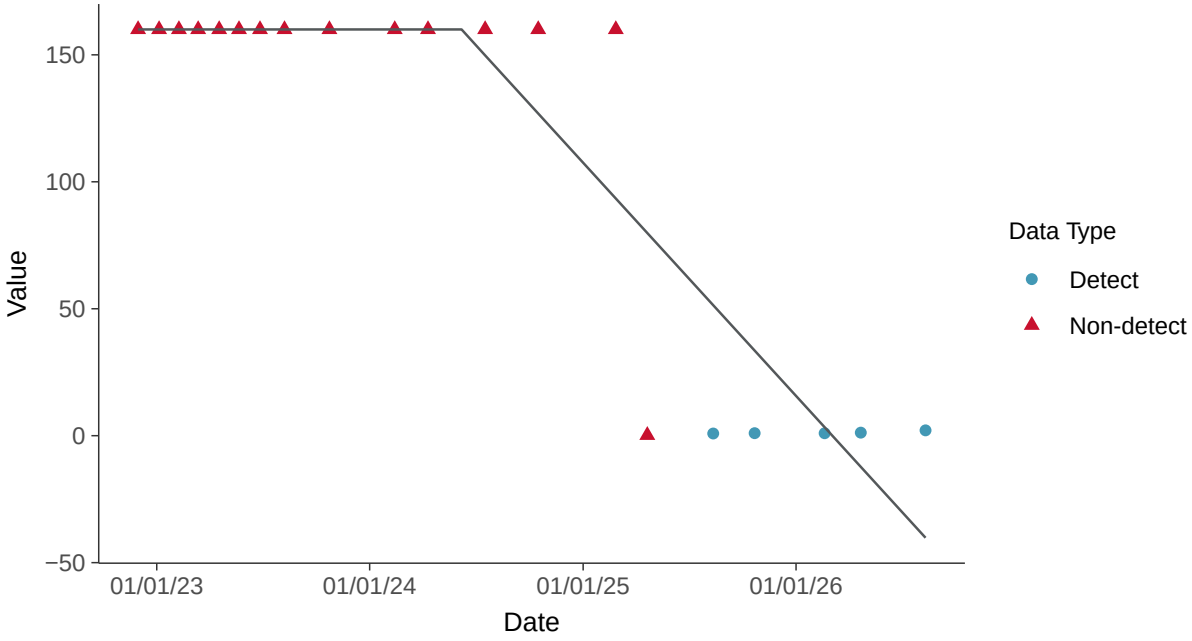
Gamma Q-Q plot using ROS Imputed Estimates

Mercury, MW-18 (ng/L)



Trend Regression: Piecewise Linear-Linear

Mercury, MW-18 (ng/L)

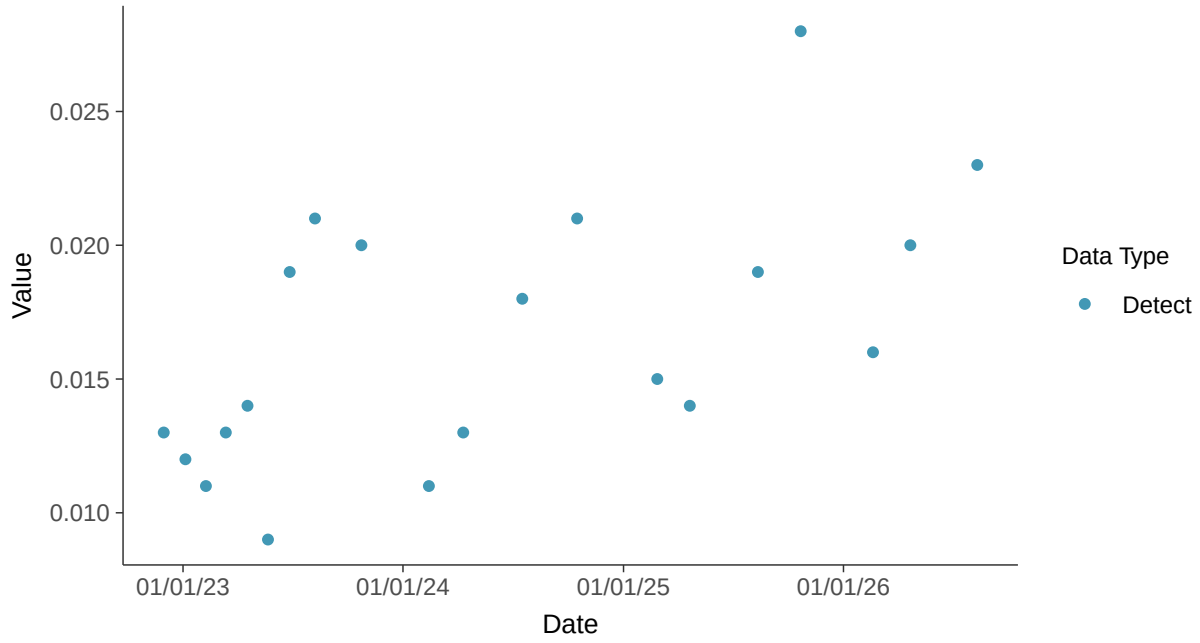


Appendix IV: Molybdenum, MW-18

ID: 28_1_4_118

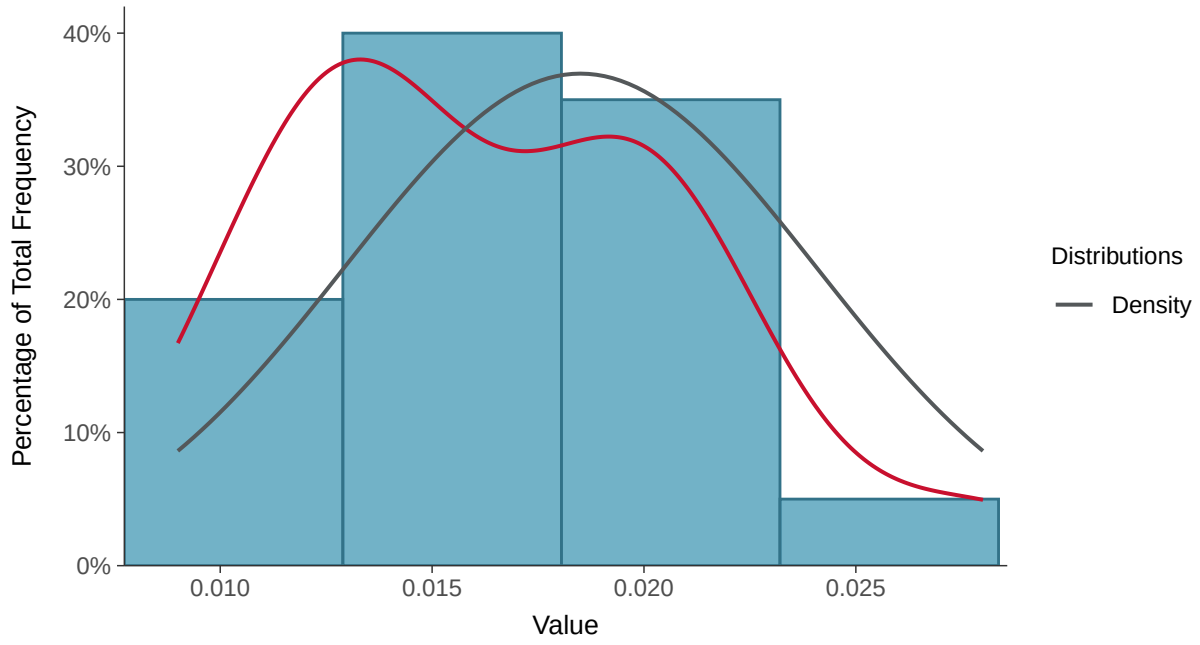
Scatter Plot

Molybdenum, MW-18 (mg/L)



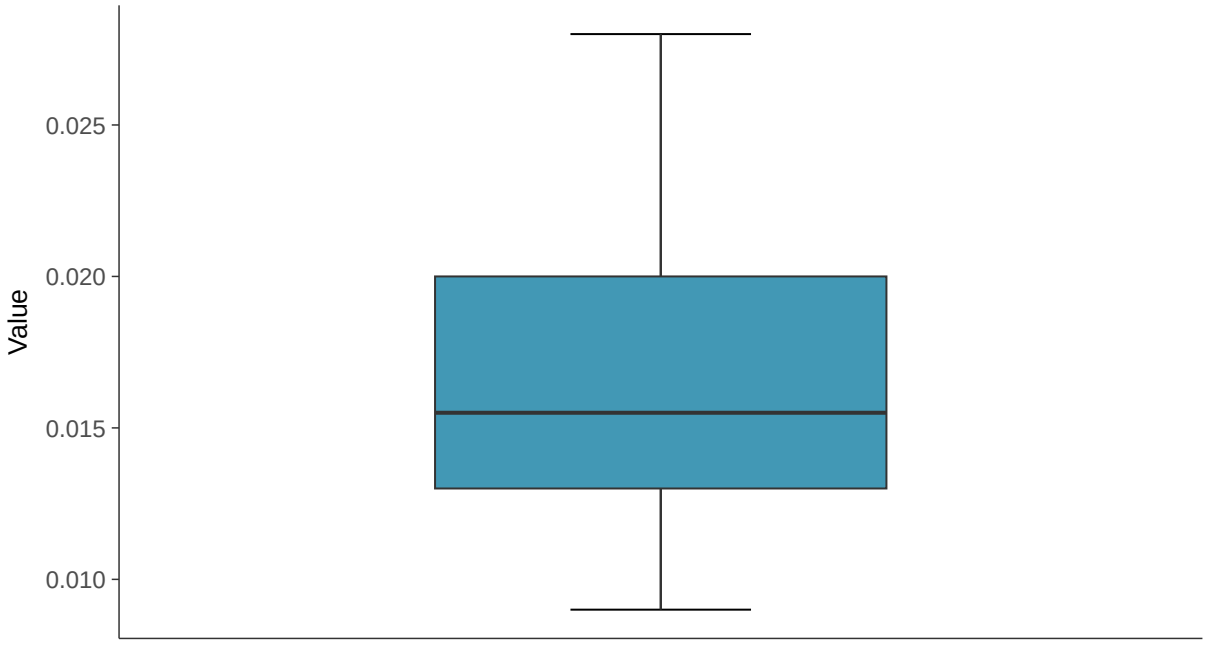
Histogram

Molybdenum, MW-18 (mg/L)



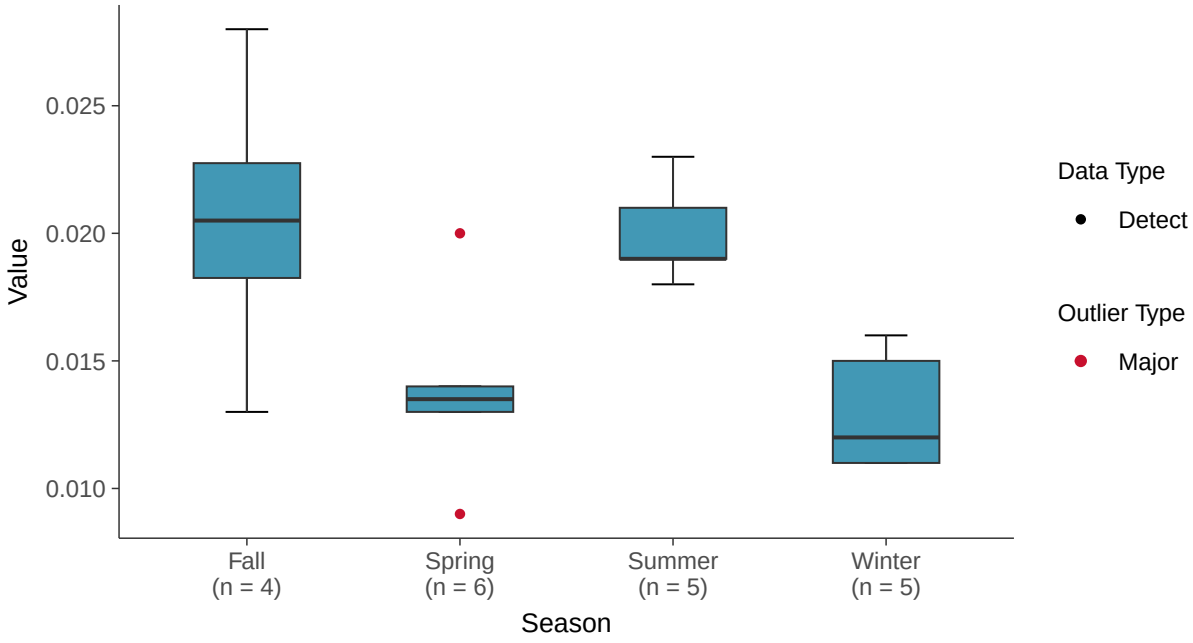
Boxplot

Molybdenum, MW-18 (mg/L)



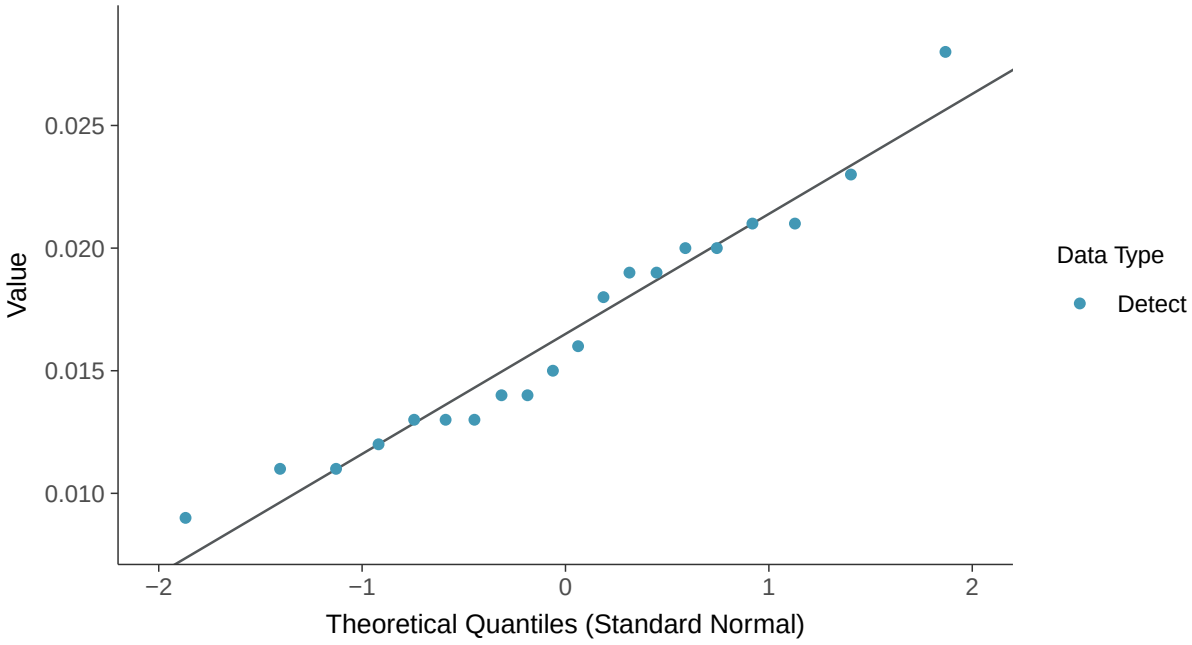
Boxplot by Season

Molybdenum, MW-18 (mg/L)



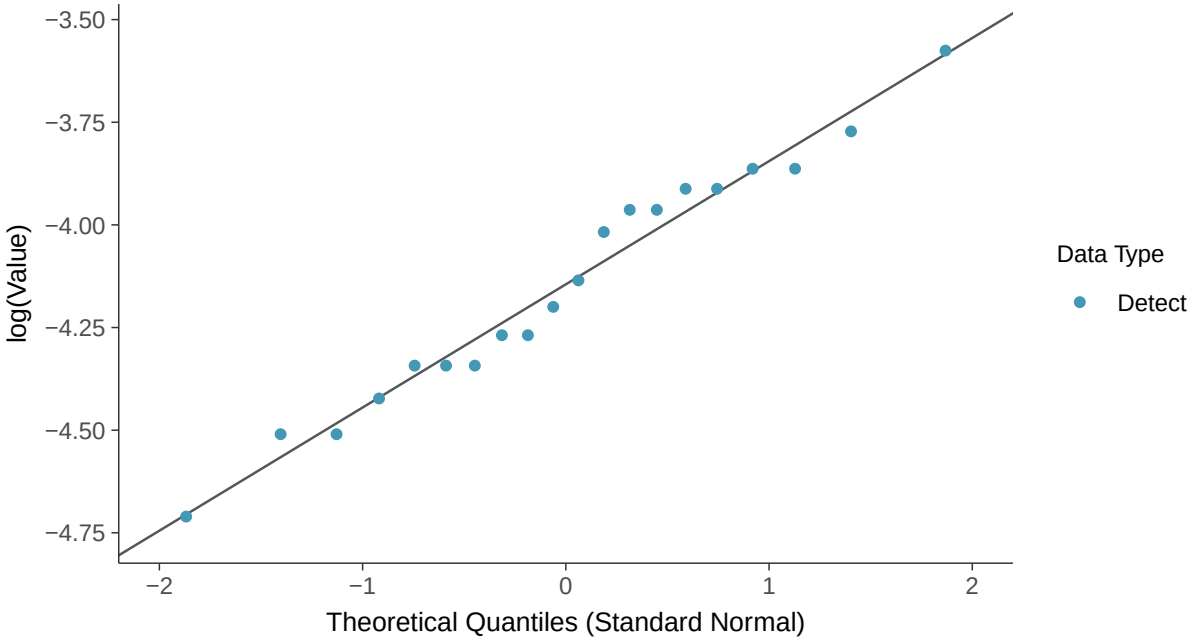
Normal Q-Q plot

Molybdenum, MW-18 (mg/L)



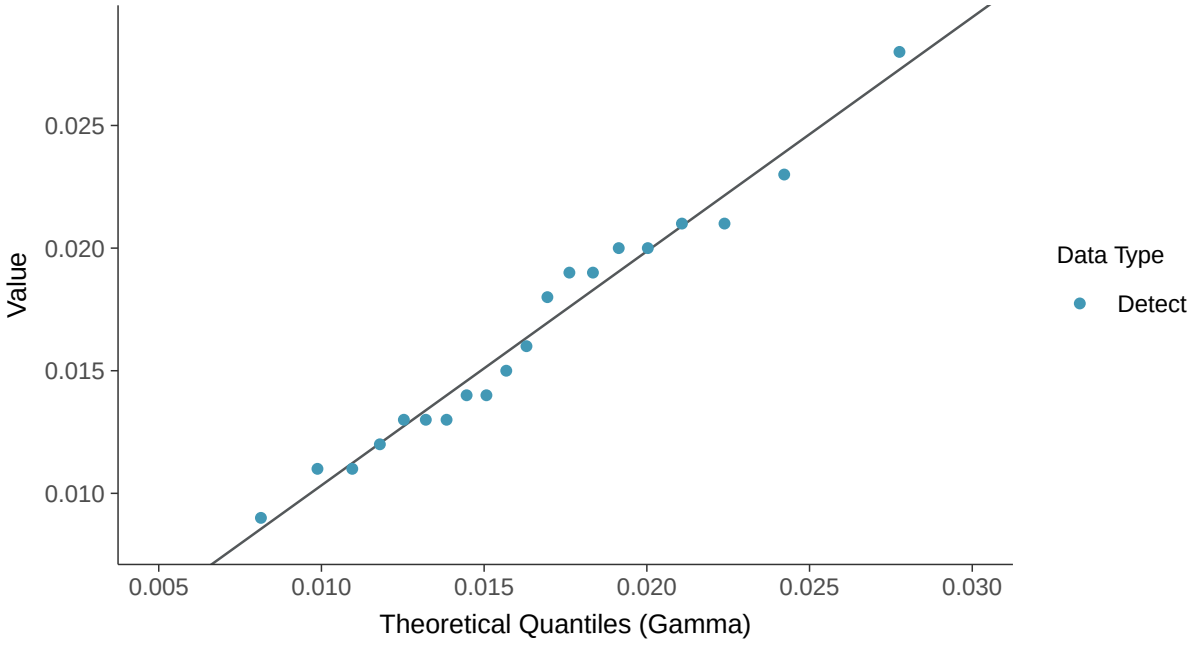
Lognormal Q-Q plot

Molybdenum, MW-18 (mg/L)



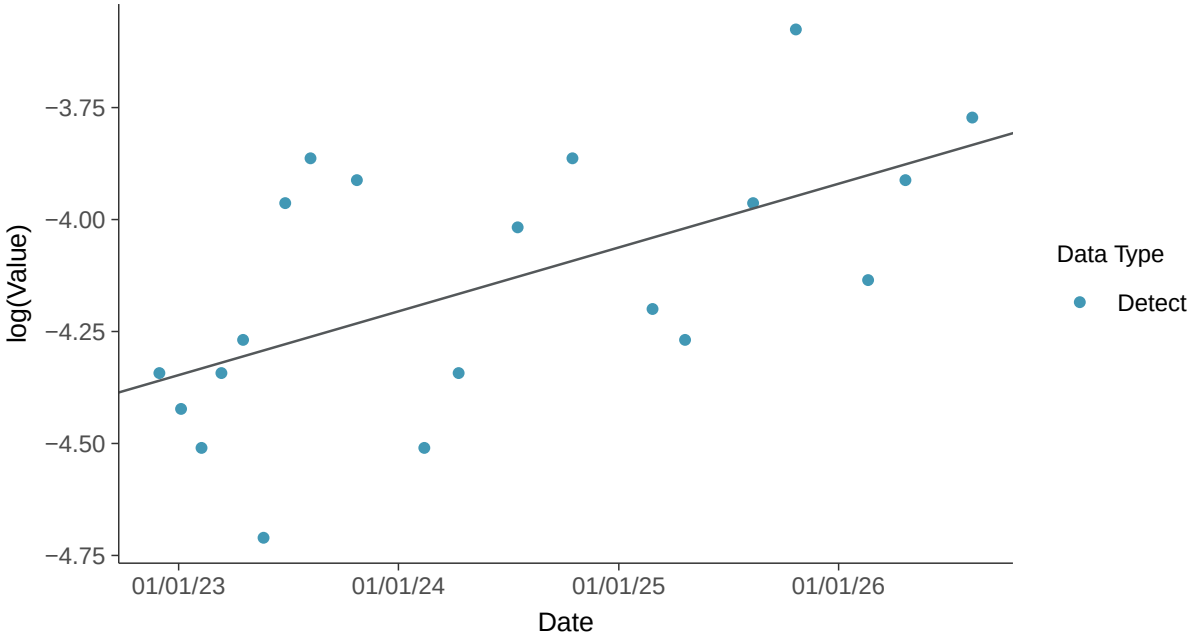
Gamma Q-Q plot

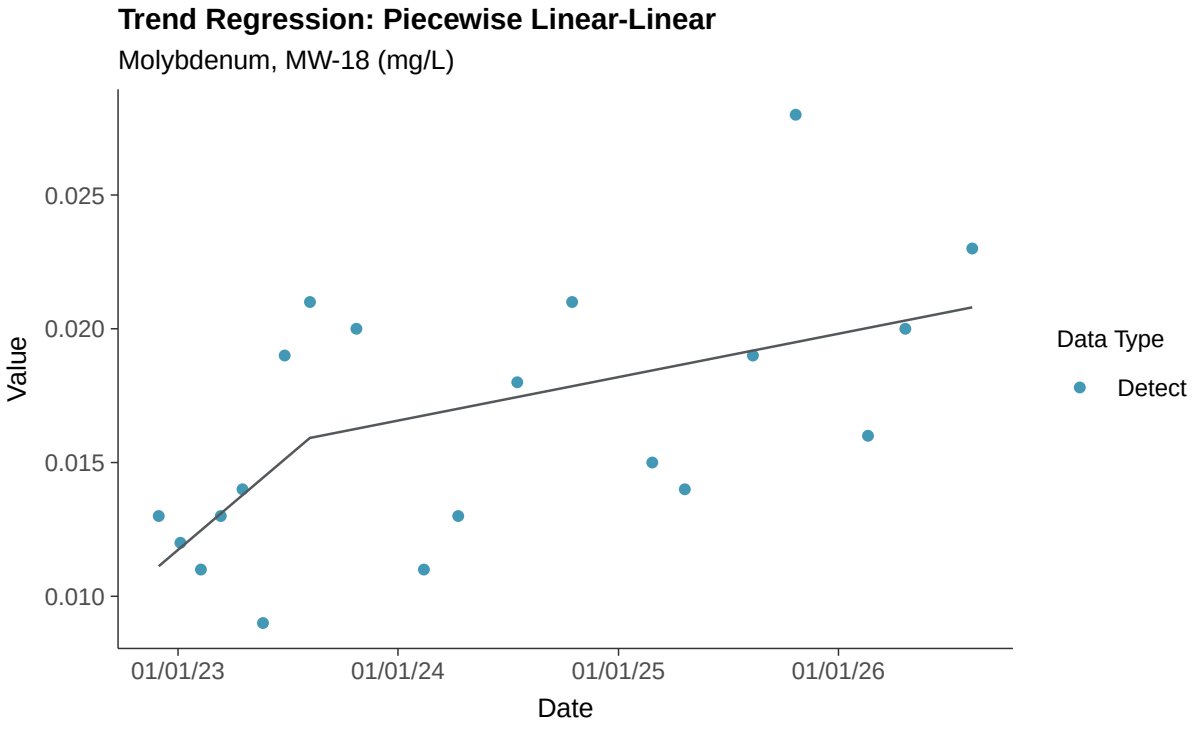
Molybdenum, MW-18 (mg/L)



Trend Regression: Lognormal MLE

Molybdenum, MW-18 (mg/L)



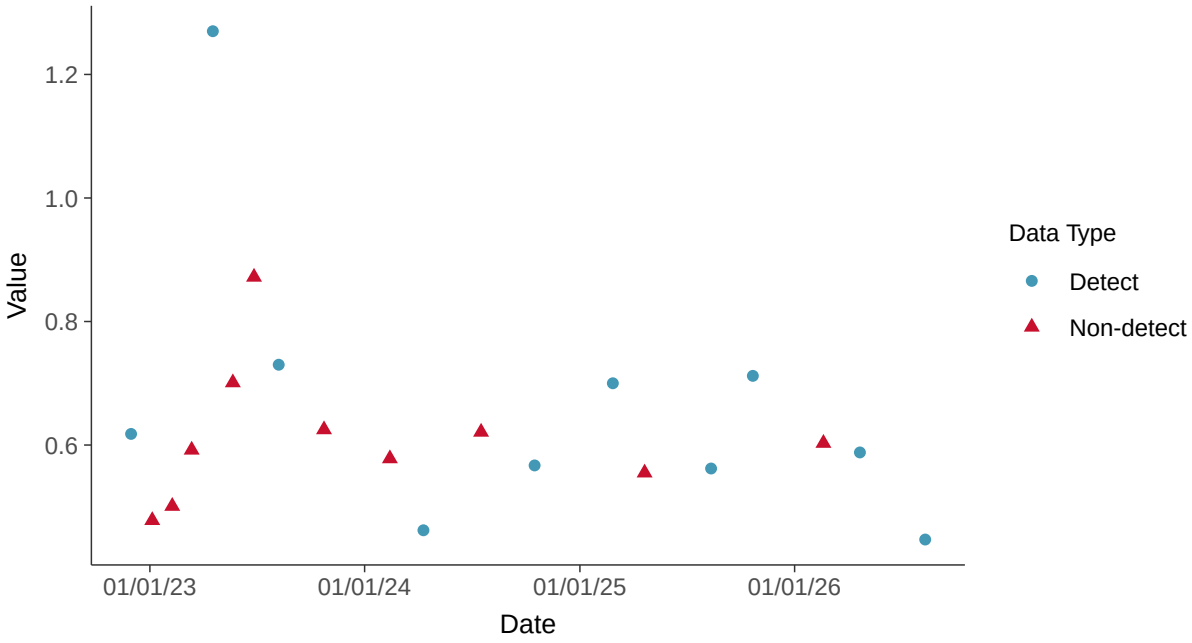

Trend Regression: Piecewise Linear-Linear
Molybdenum, MW-18 (mg/L)
Value
0.025
0.020
0.015
0.010
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect

Appendix IV: Radium 226 and 228, MW-18

ID: 28_1_4_121

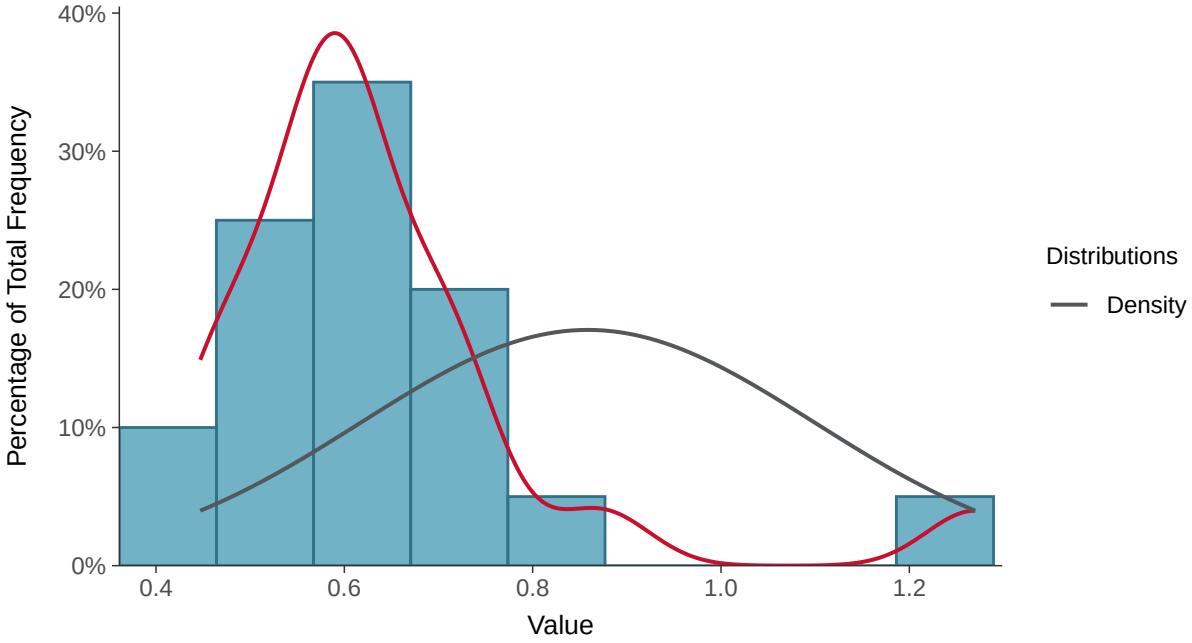
Scatter Plot

Radium 226 and 228, MW-18 (pCi/L)



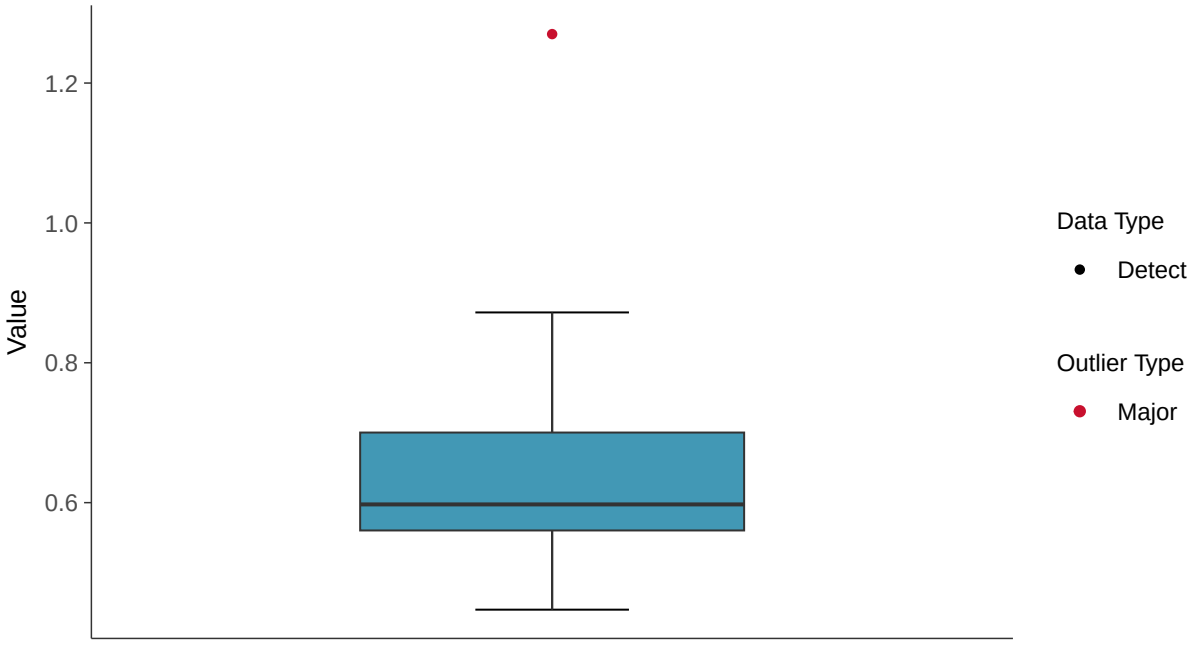
Histogram

Radium 226 and 228, MW-18 (pCi/L)



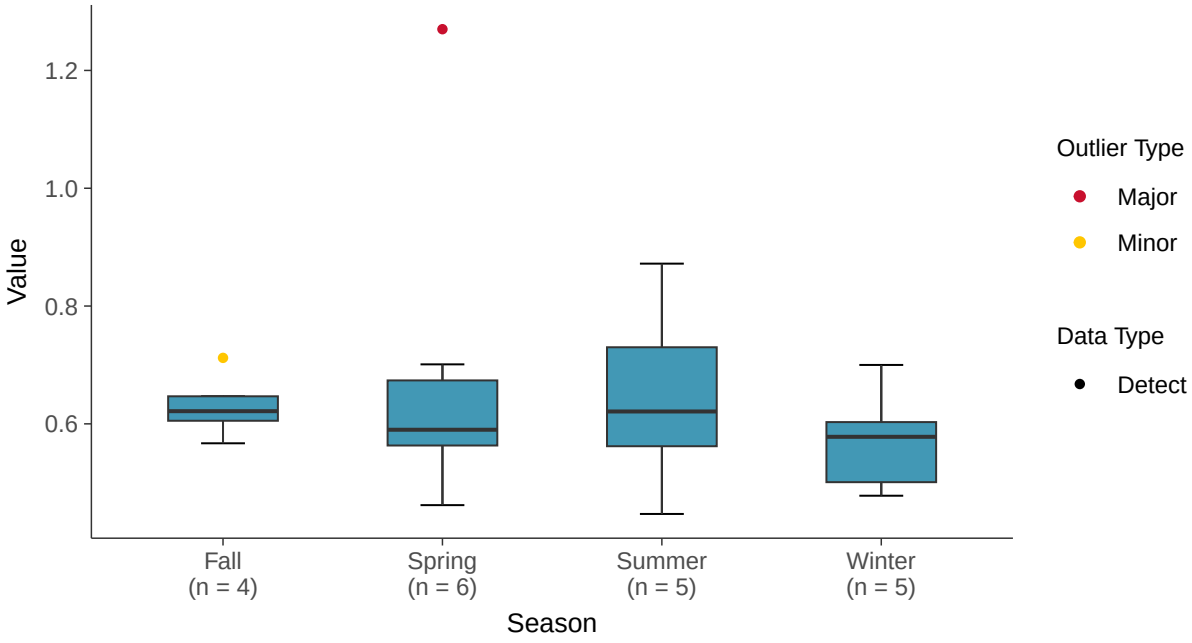
Boxplot

Radium 226 and 228, MW-18 (pCi/L)



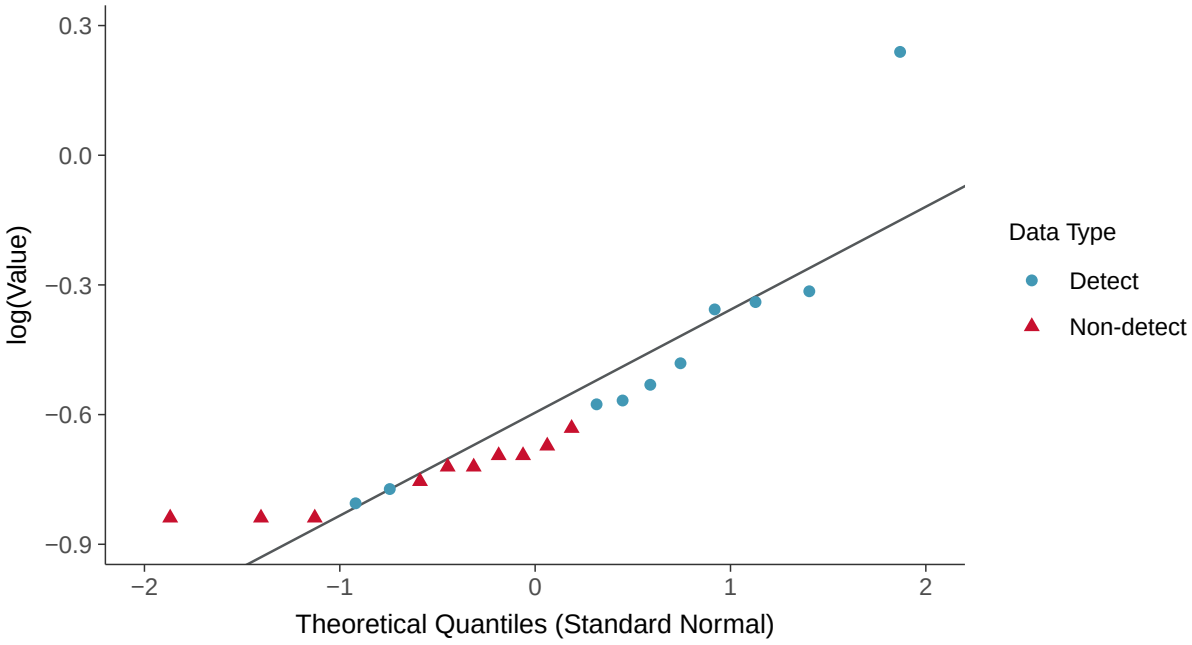
Boxplot by Season

Radium 226 and 228, MW-18 (pCi/L)



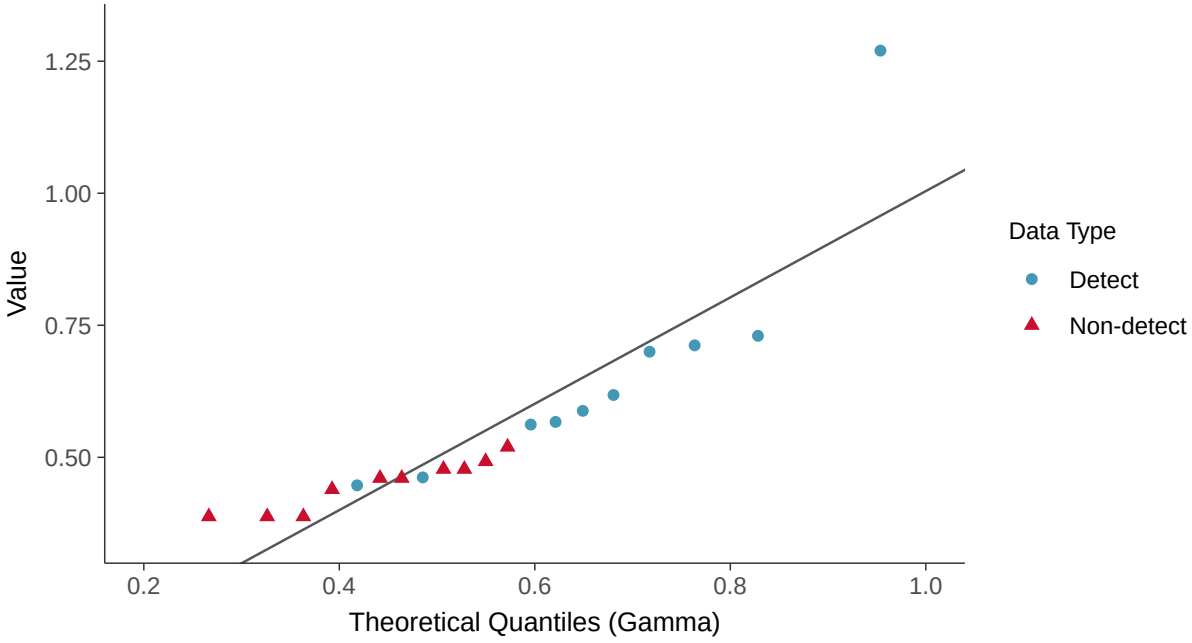
Lognormal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-18 (pCi/L)



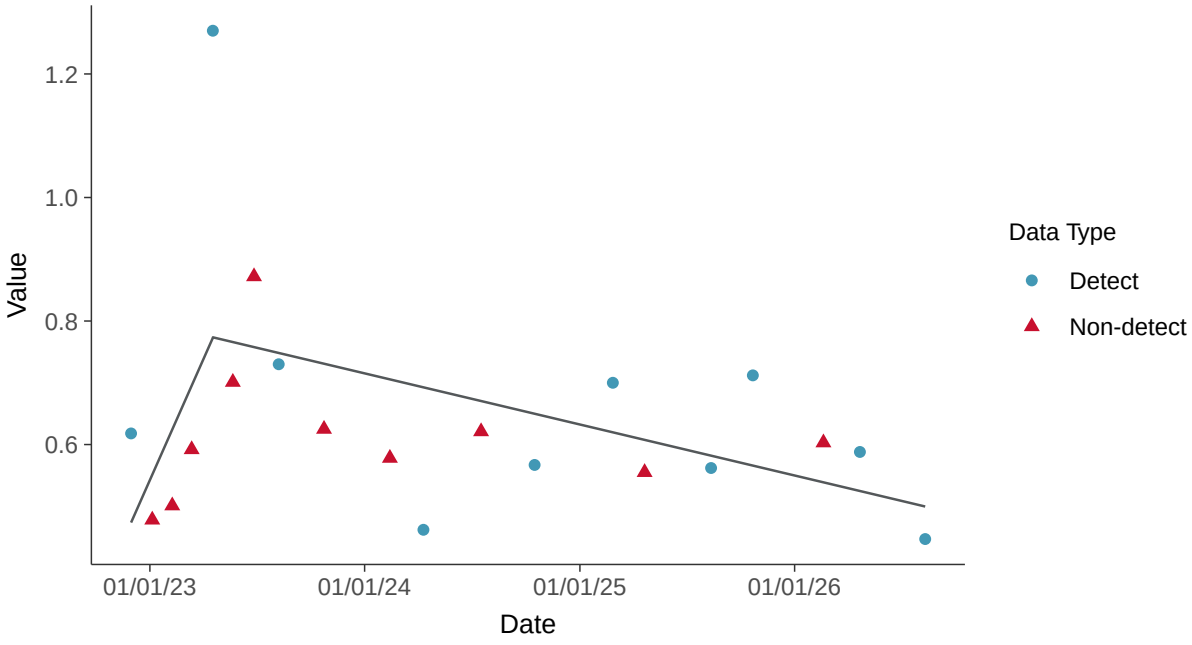
Gamma Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-18 (pCi/L)



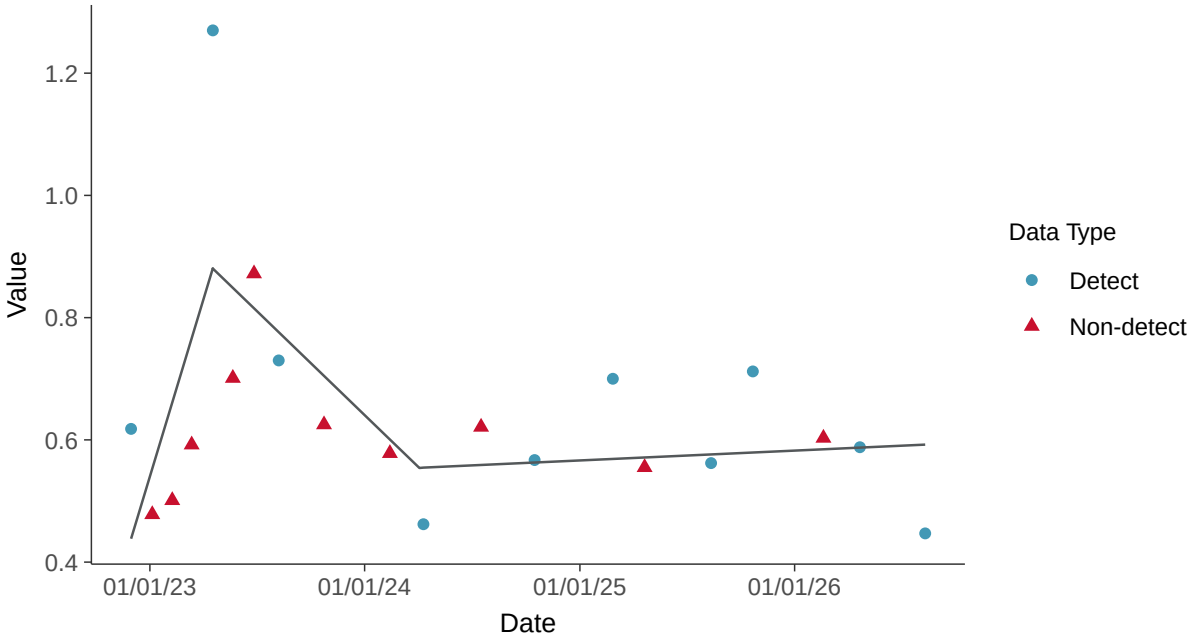
Trend Regression: Piecewise Linear-Linear

Radium 226 and 228, MW-18 (pCi/L)



Trend Regression: Piecewise Linear-Linear-Linear

Radium 226 and 228, MW-18 (pCi/L)

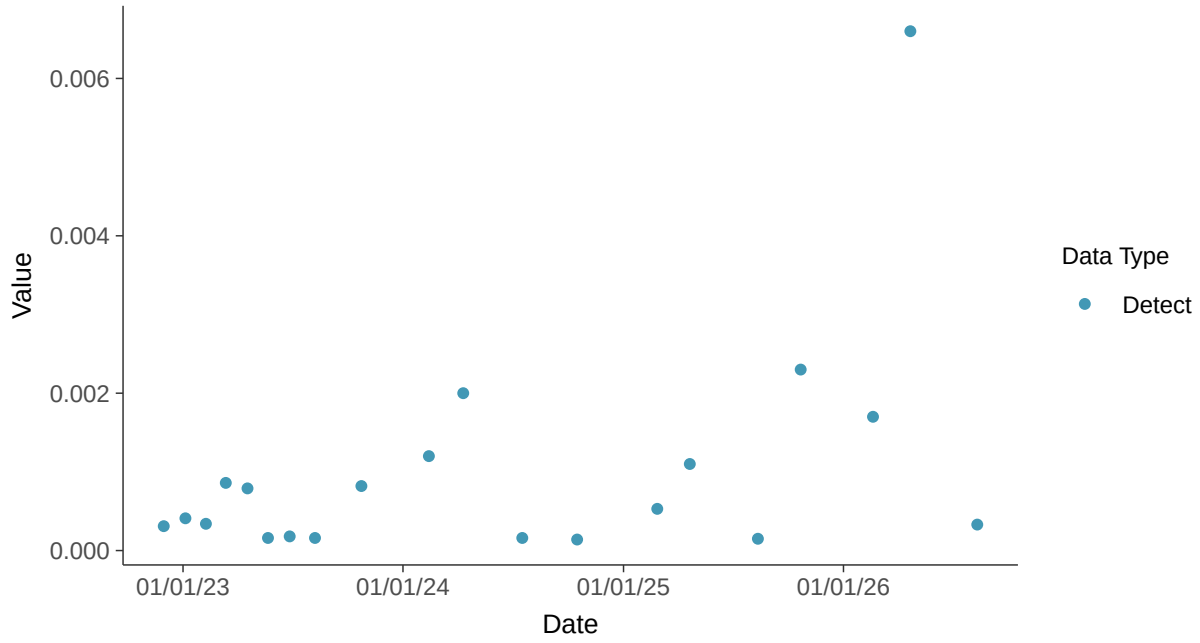


Appendix IV: Selenium, MW-18

ID: 28_1_4_122

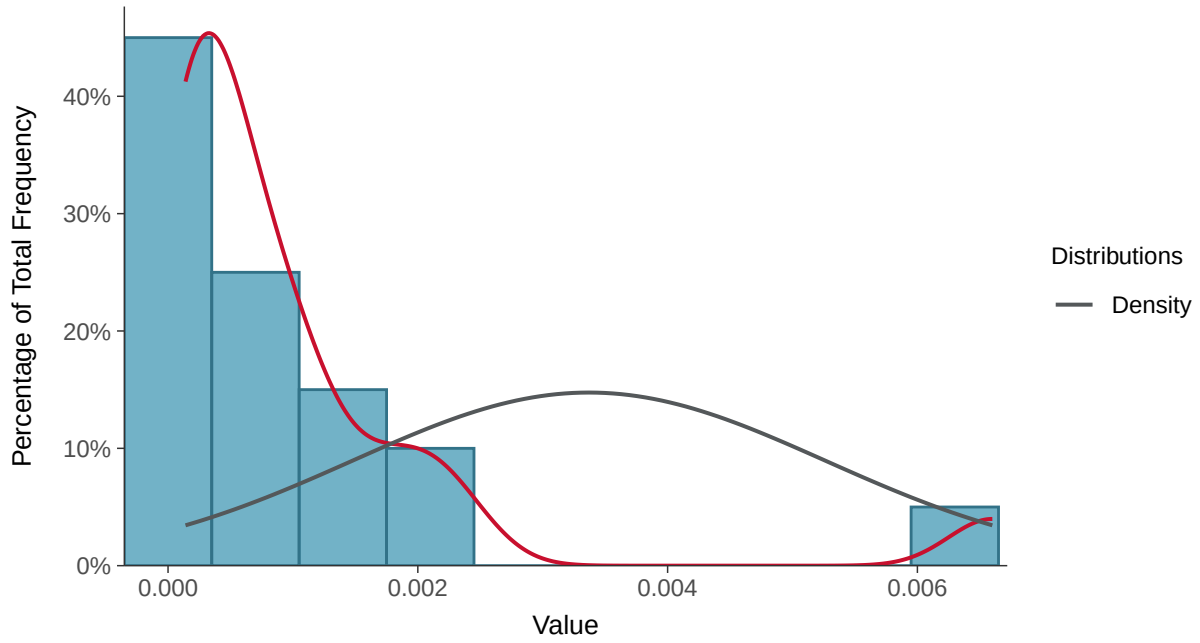
Scatter Plot

Selenium, MW-18 (mg/L)



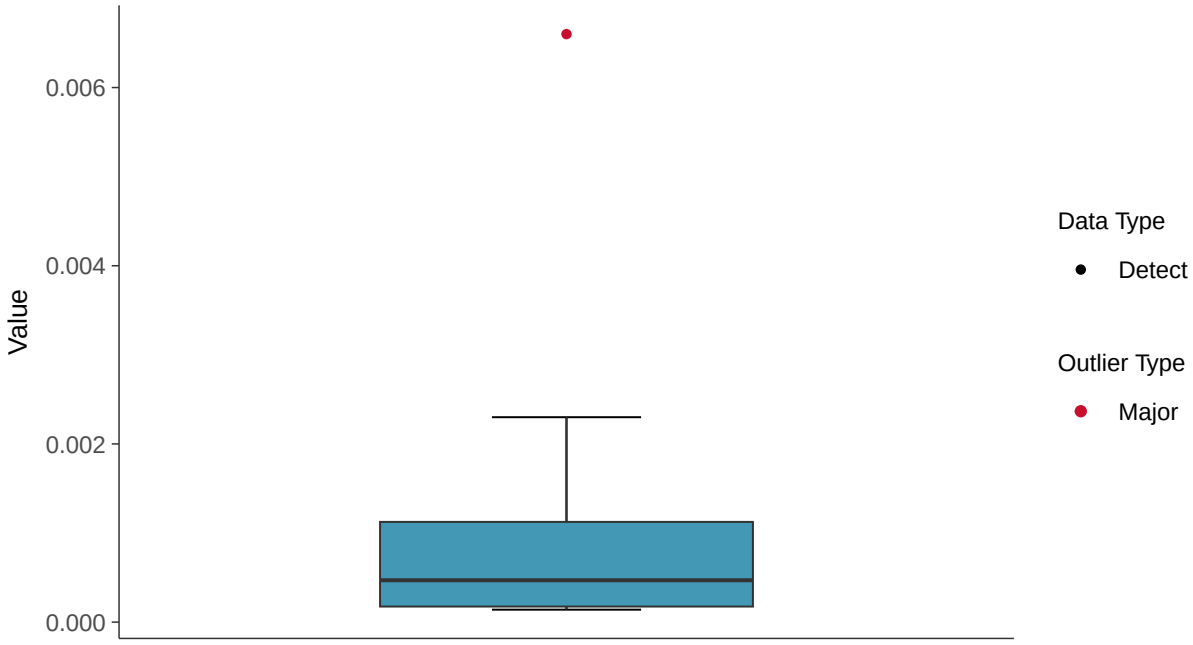
Histogram

Selenium, MW-18 (mg/L)



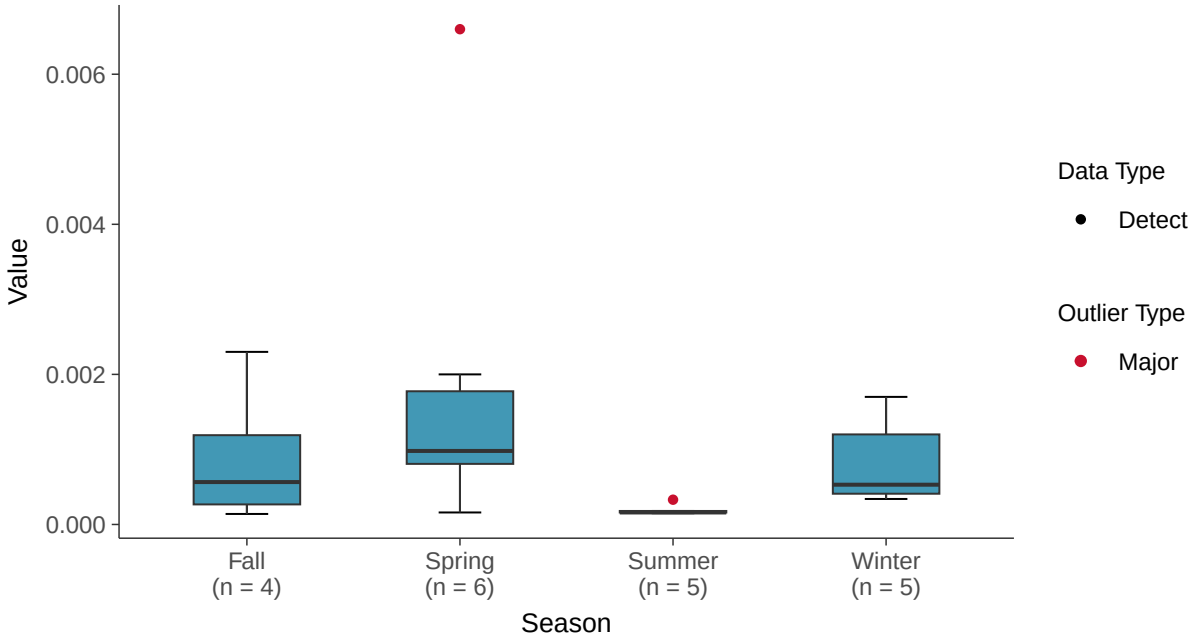
Boxplot

Selenium, MW-18 (mg/L)



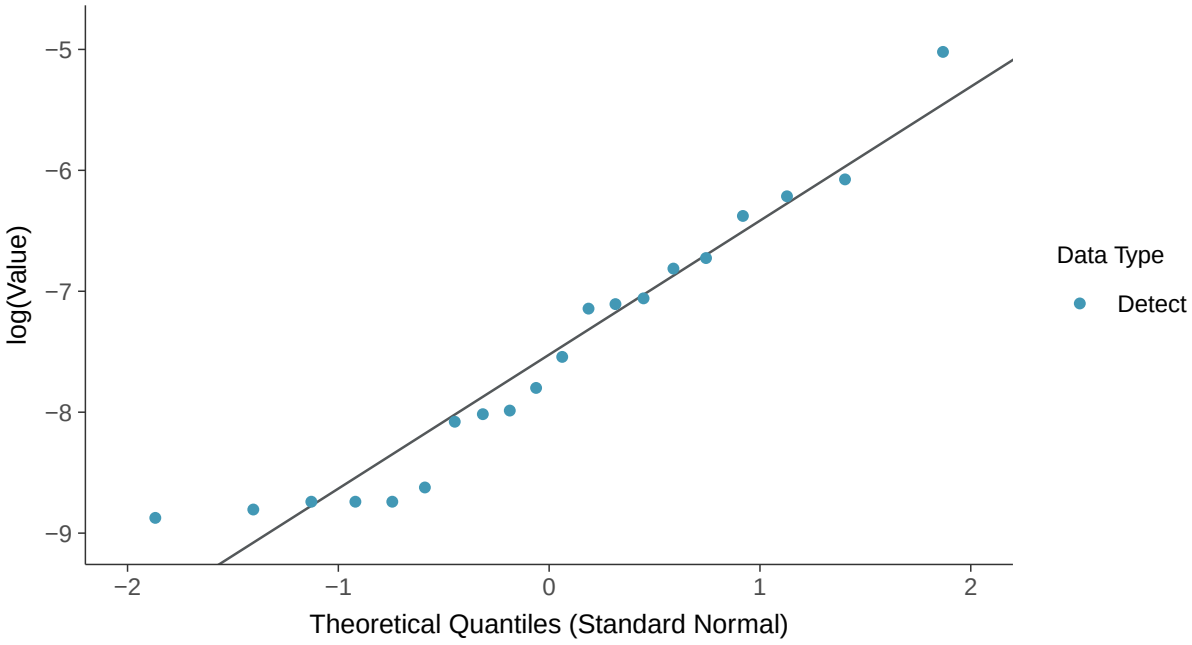
Boxplot by Season

Selenium, MW-18 (mg/L)



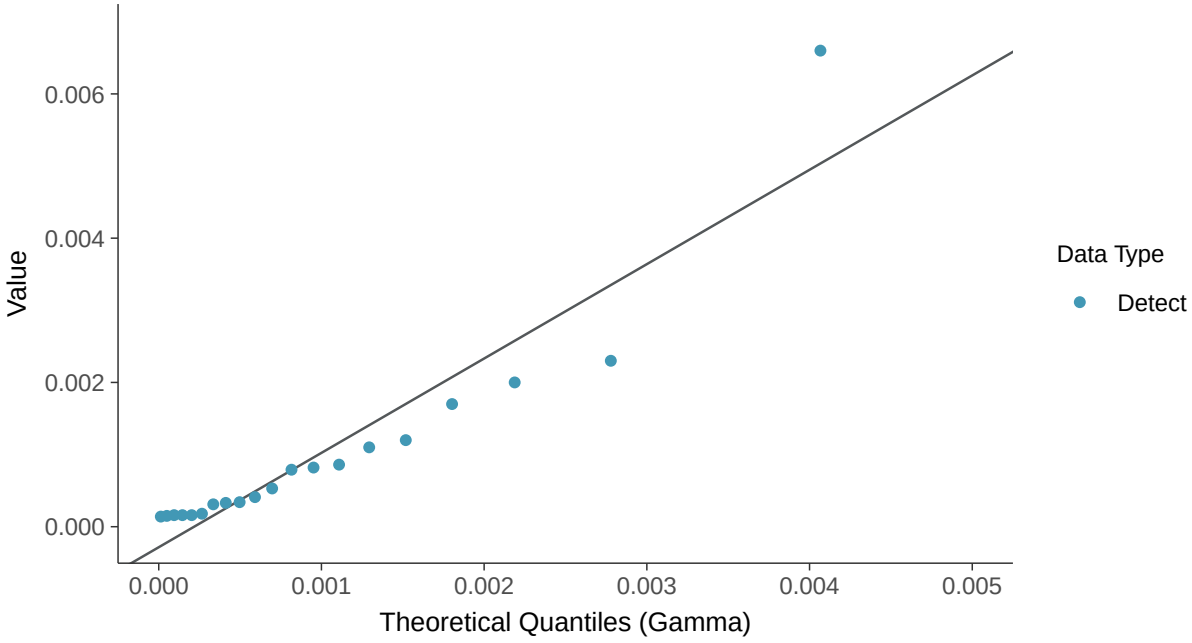
Lognormal Q-Q plot

Selenium, MW-18 (mg/L)



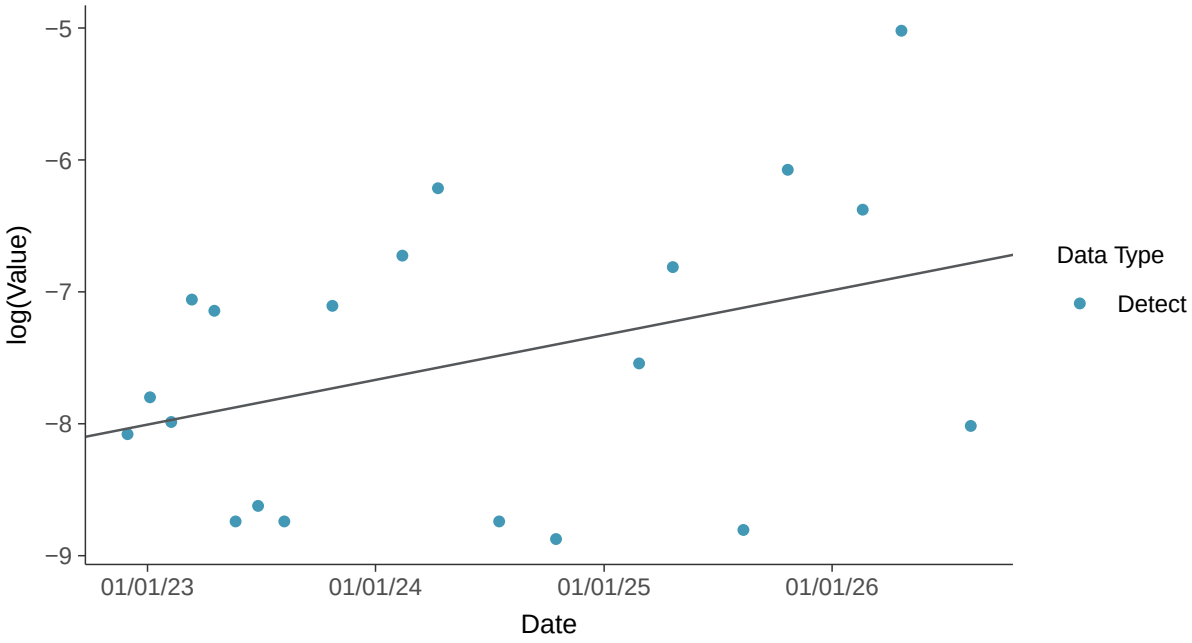
Gamma Q-Q plot

Selenium, MW-18 (mg/L)



Trend Regression: Lognormal MLE

Selenium, MW-18 (mg/L)

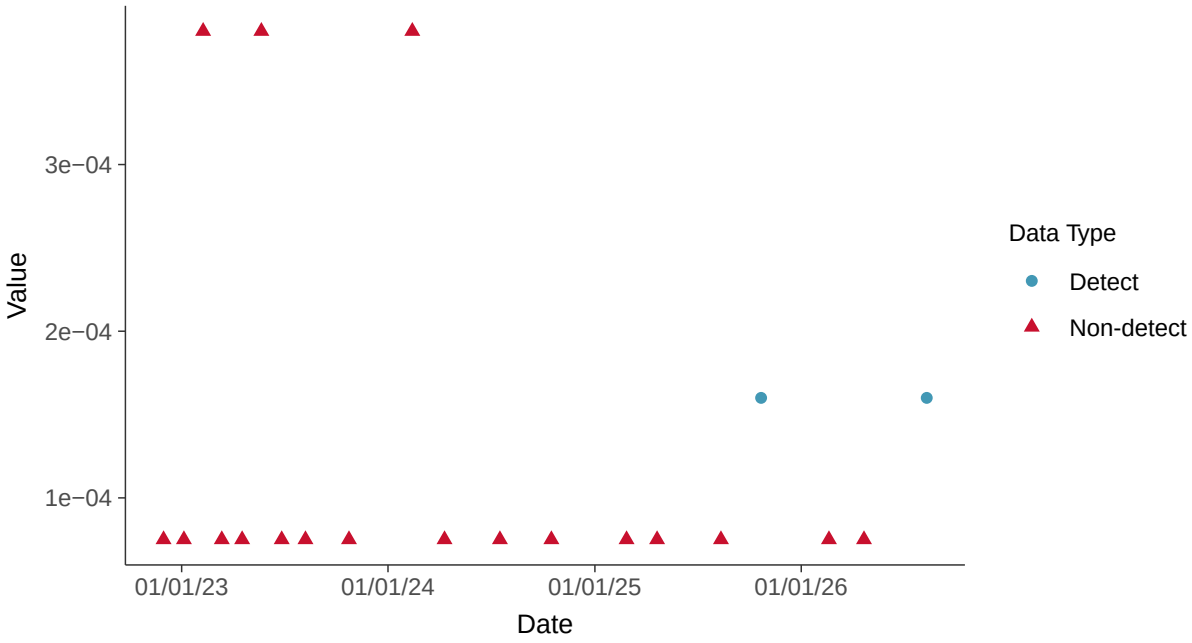


Appendix IV: Thallium, MW-18

ID: 28_1_4_125

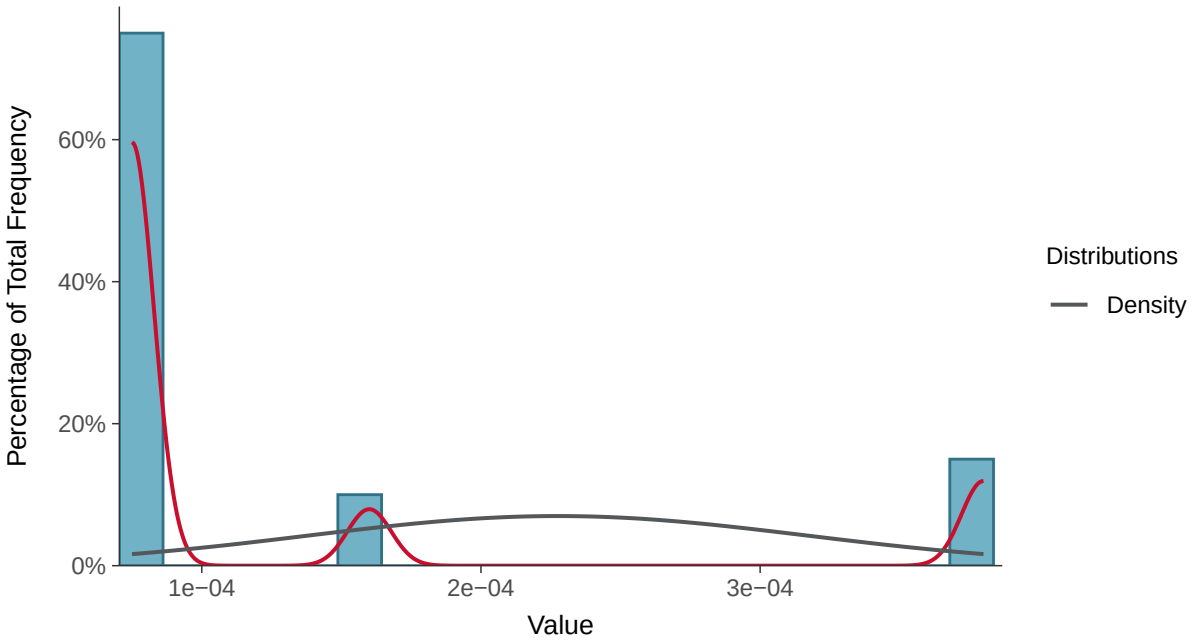
Scatter Plot

Thallium, MW-18 (mg/L)



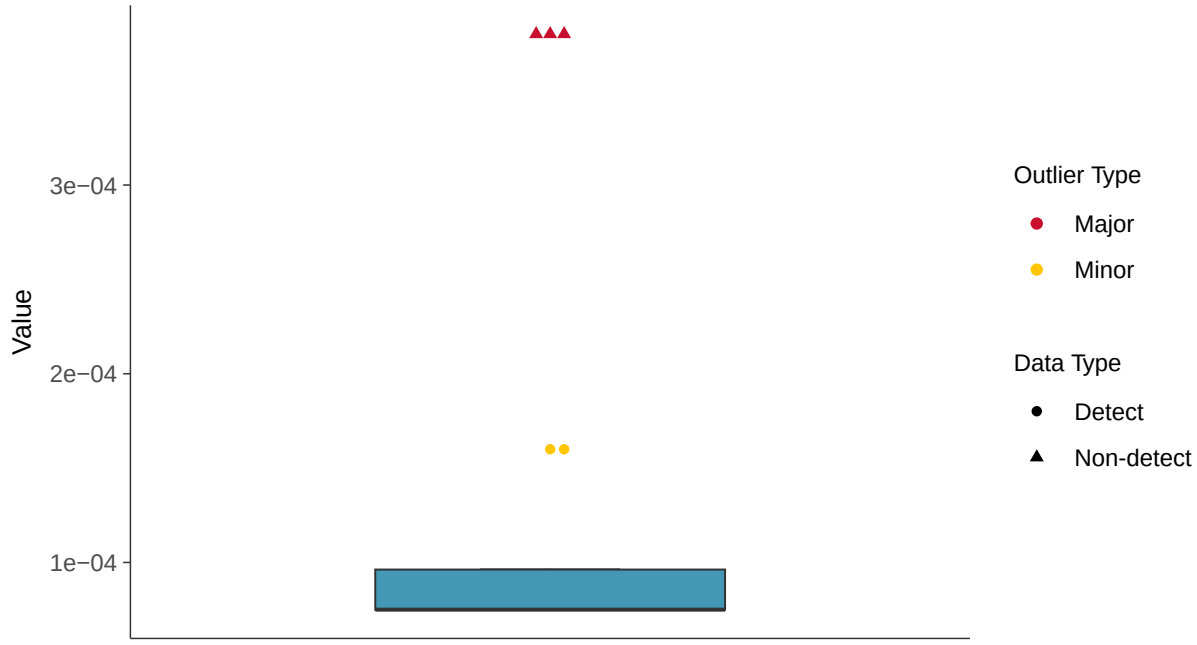
Histogram

Thallium, MW-18 (mg/L)



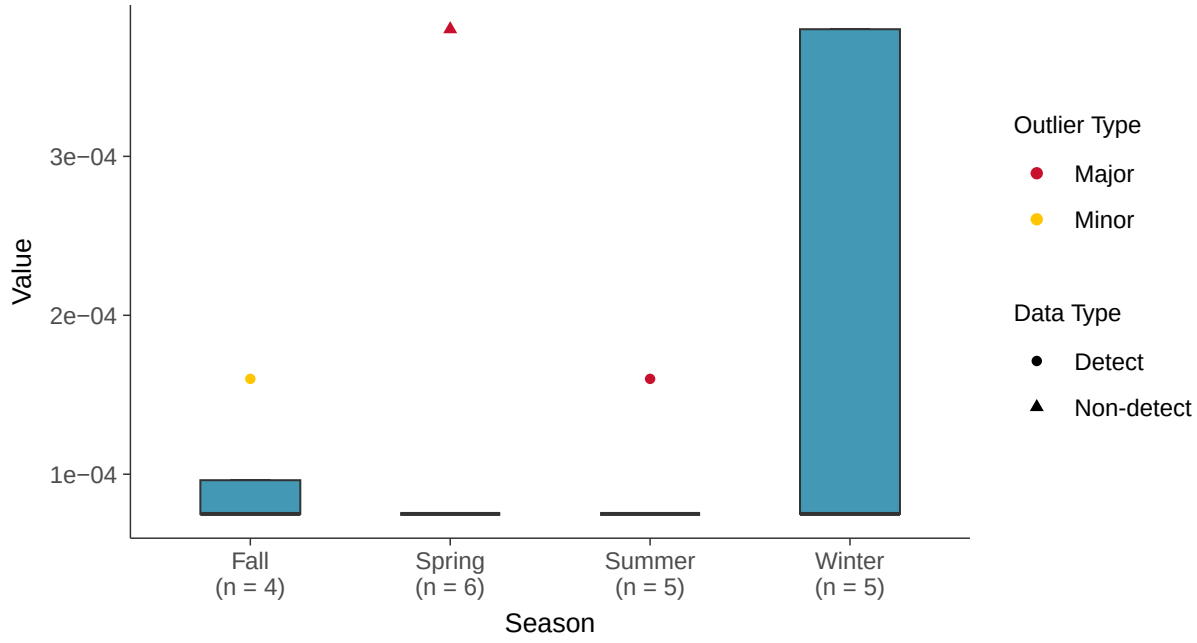
Boxplot

Thallium, MW-18 (mg/L)



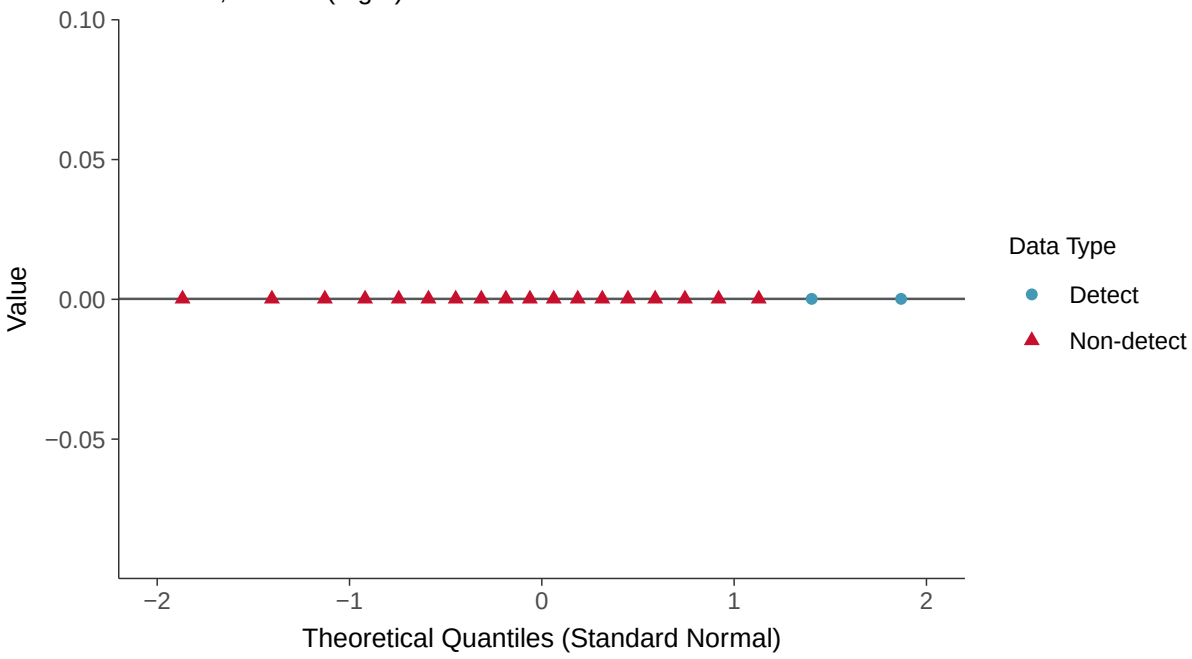
Boxplot by Season

Thallium, MW-18 (mg/L)



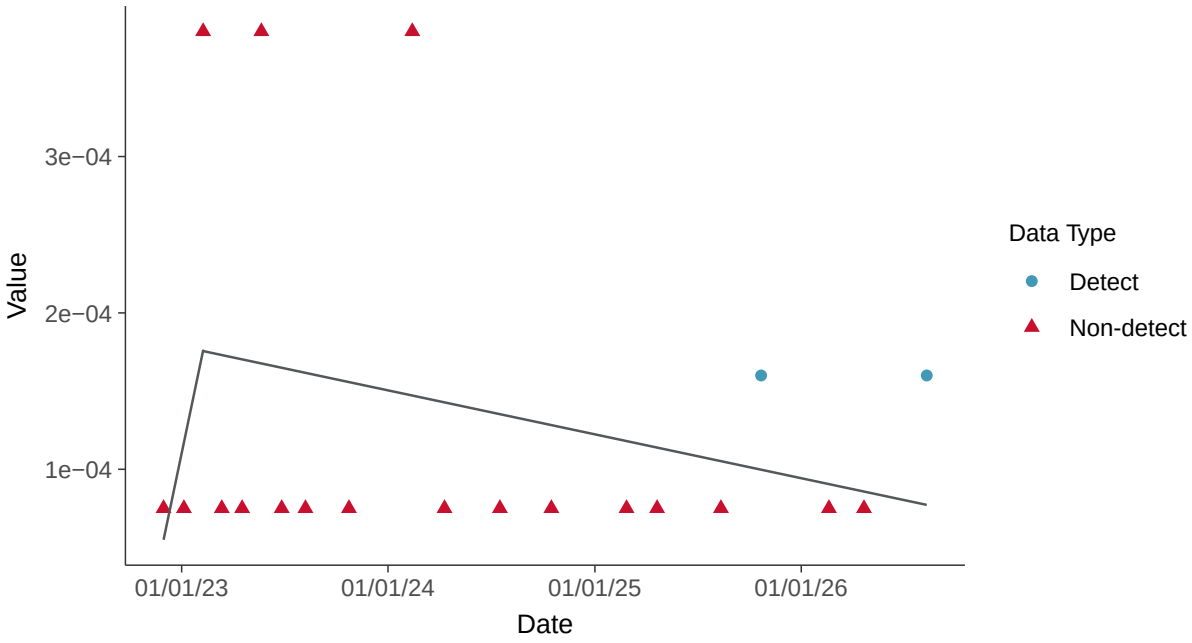
Normal Q-Q plot using ROS Imputed Estimates

Thallium, MW-18 (mg/L)



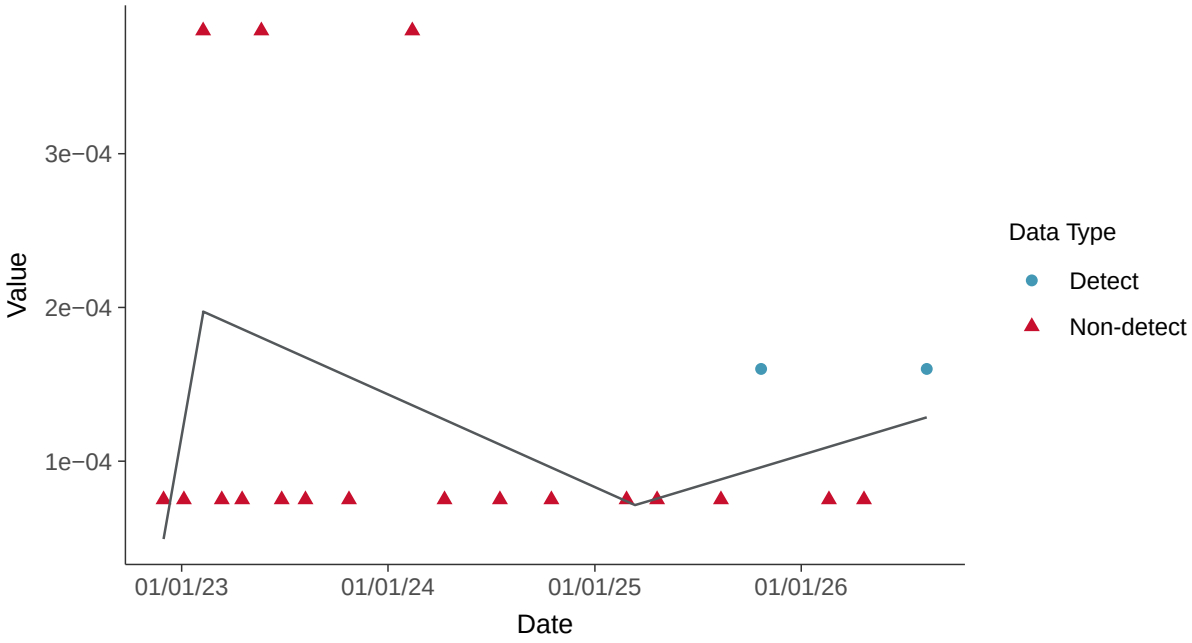
Trend Regression: Piecewise Linear-Linear

Thallium, MW-18 (mg/L)



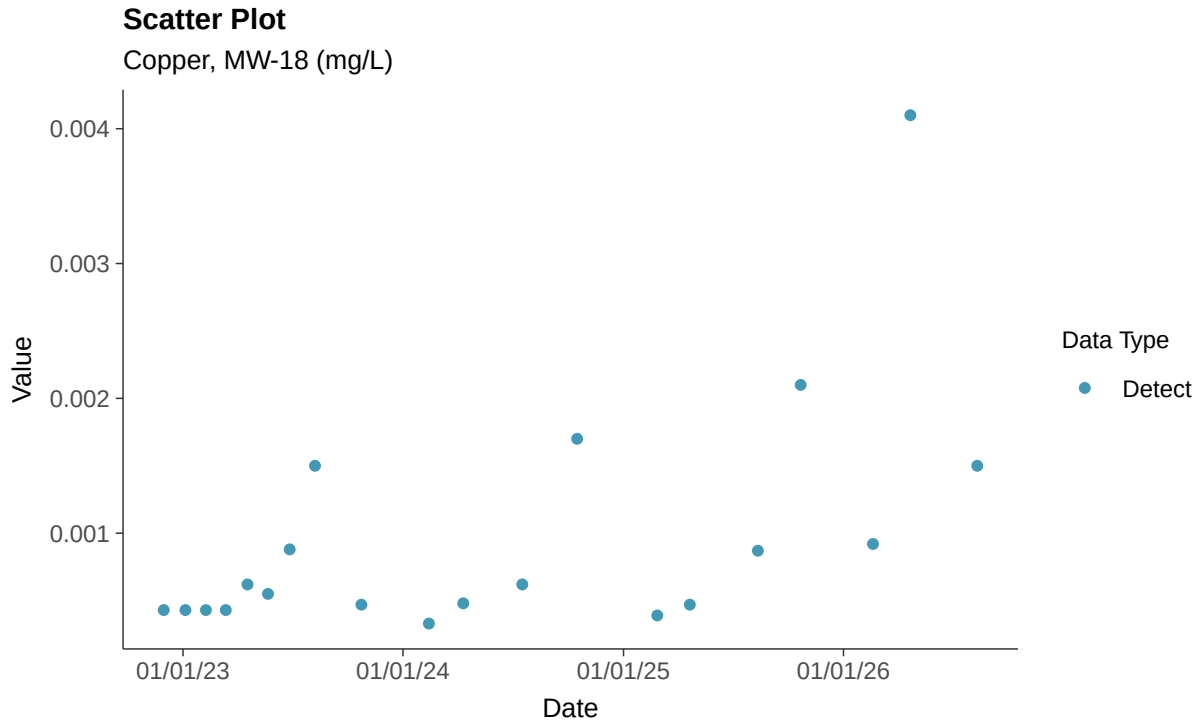
Trend Regression: Piecewise Linear-Linear-Linear

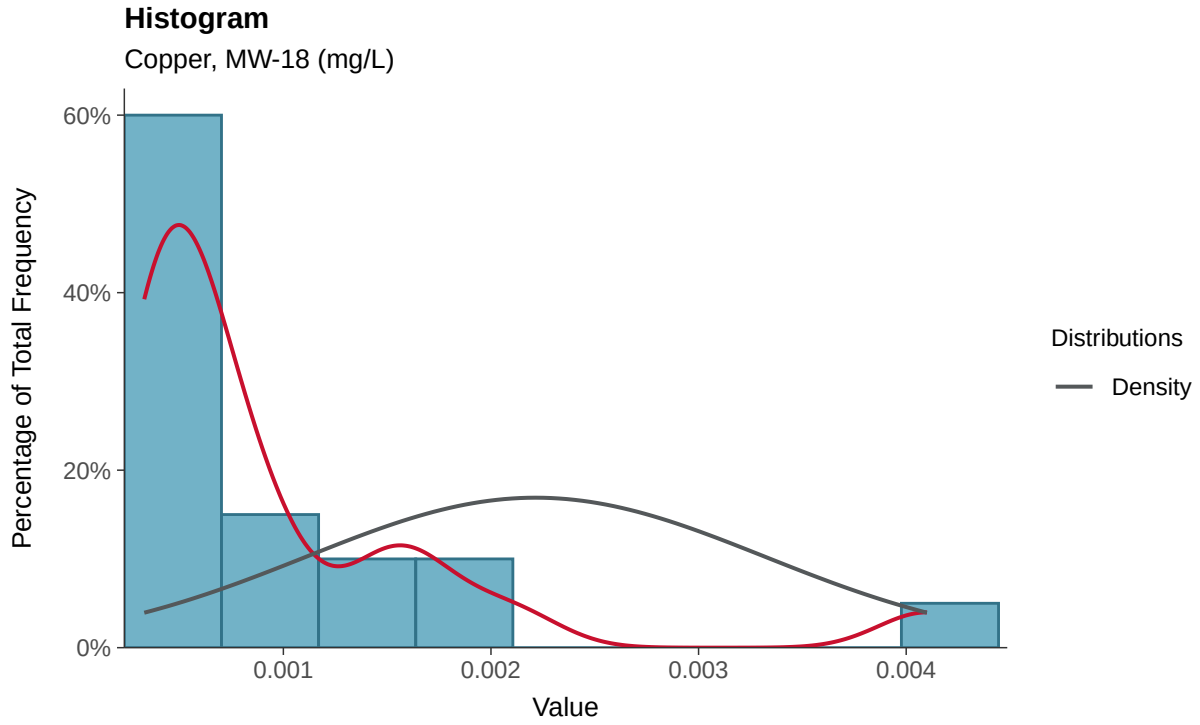
Thallium, MW-18 (mg/L)



Part 115: Copper, MW-18

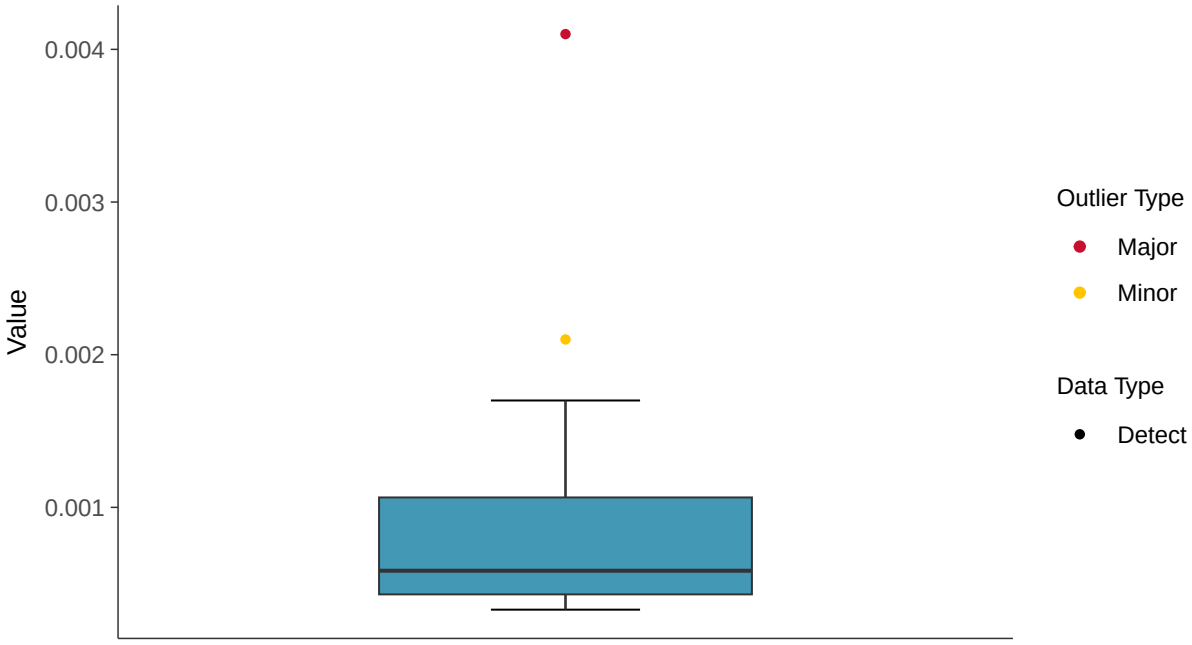
ID: 28_1_5_111





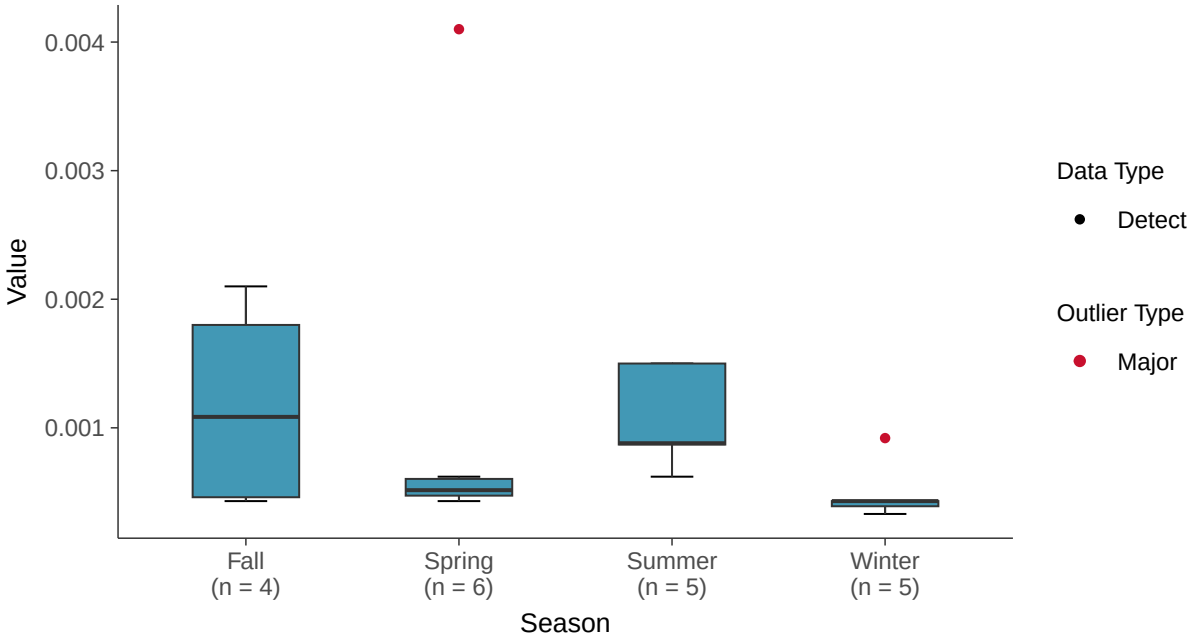
Boxplot

Copper, MW-18 (mg/L)



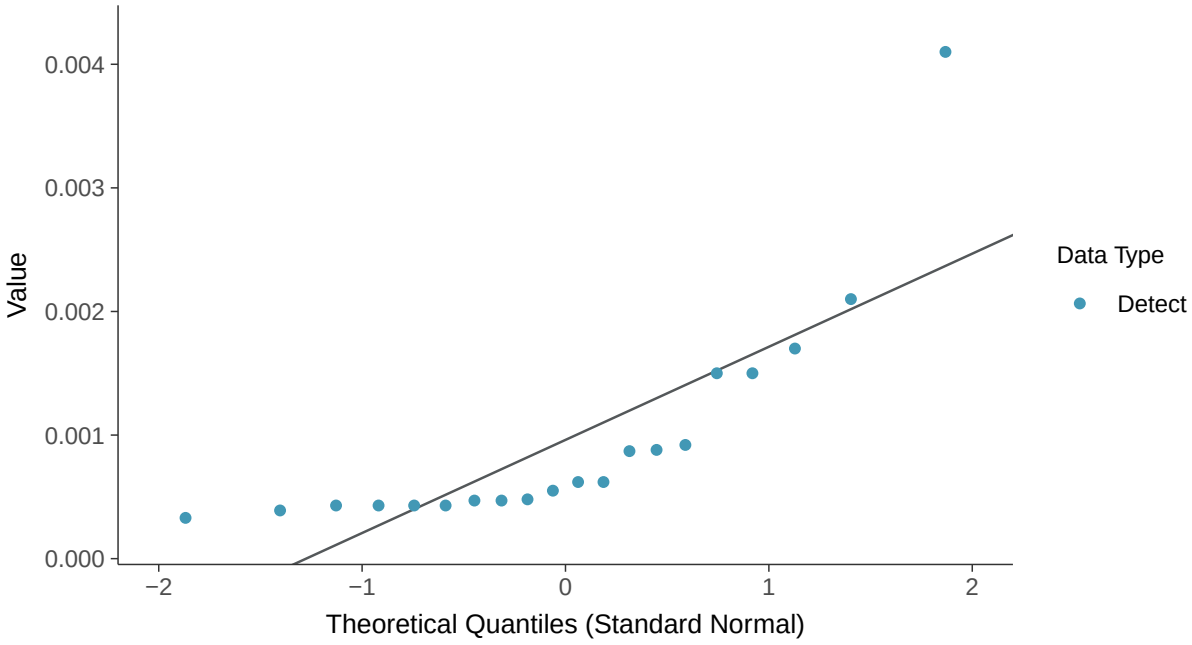
Boxplot by Season

Copper, MW-18 (mg/L)



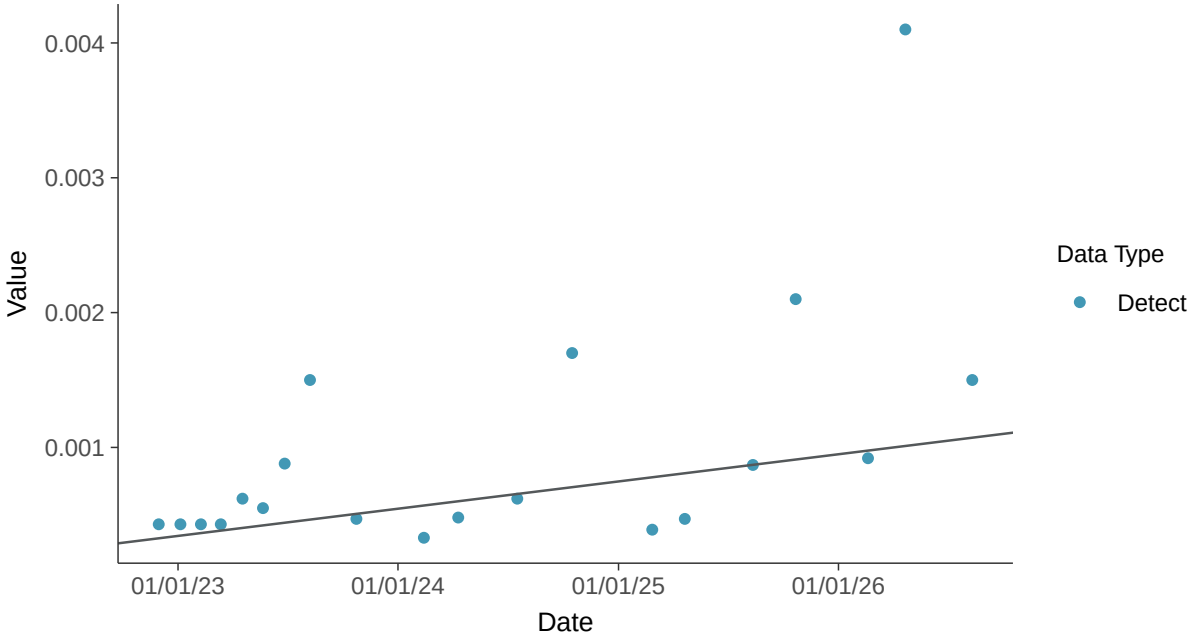
Normal Q-Q plot

Copper, MW-18 (mg/L)



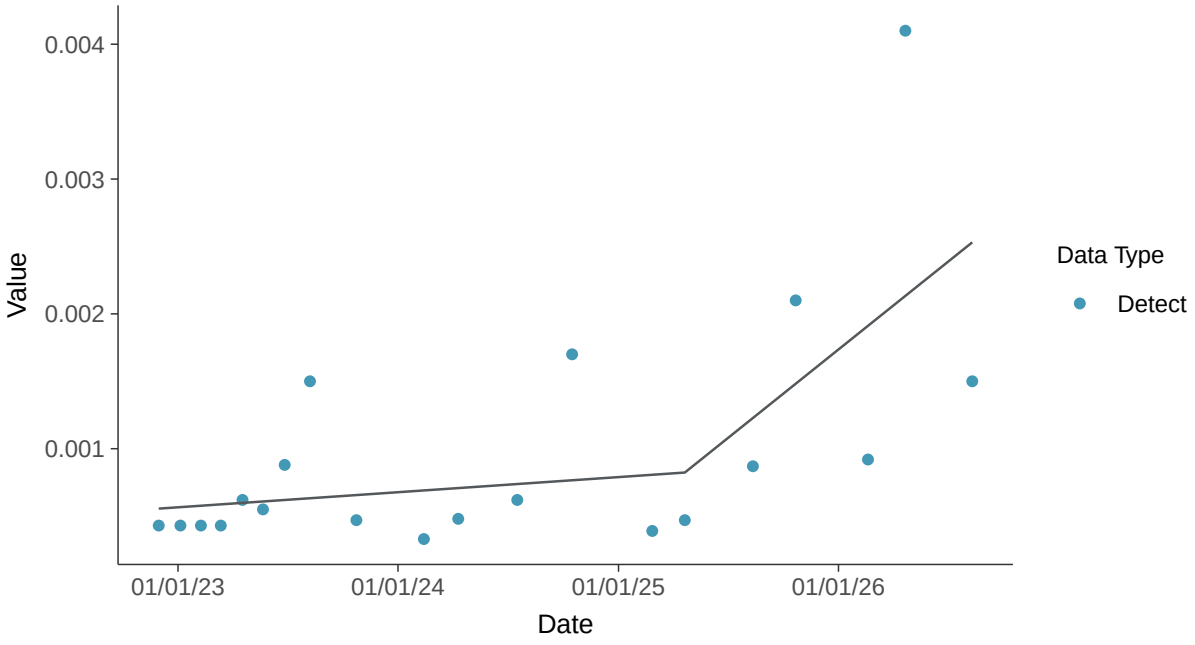
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Copper, MW-18 (mg/L)



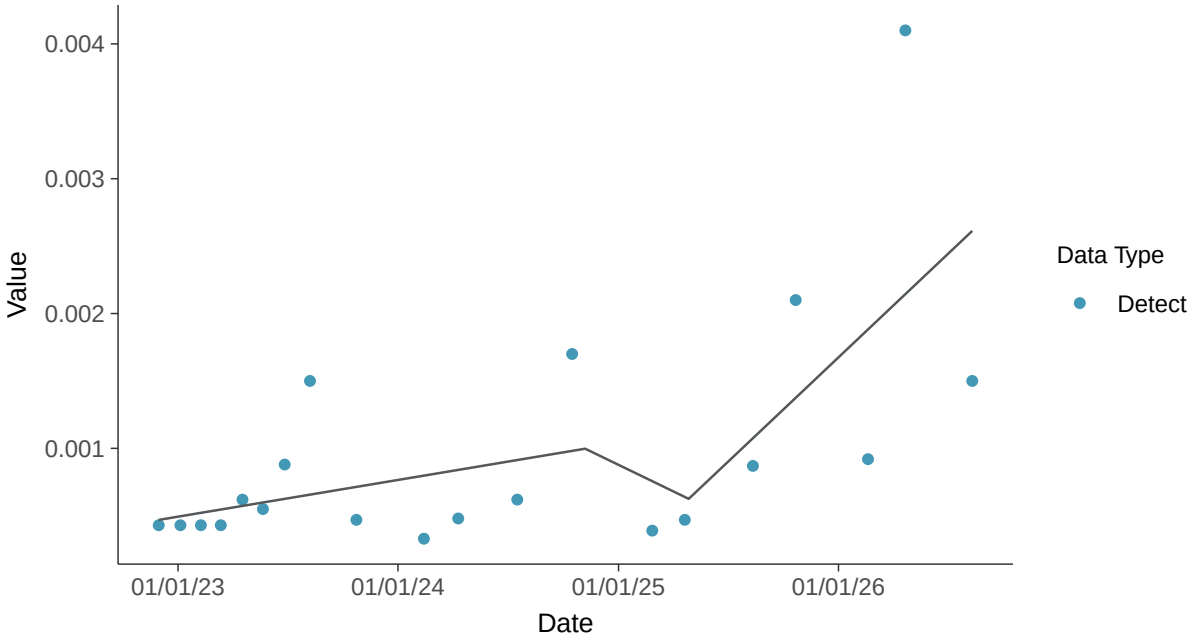
Trend Regression: Piecewise Linear-Linear

Copper, MW-18 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Copper, MW-18 (mg/L)

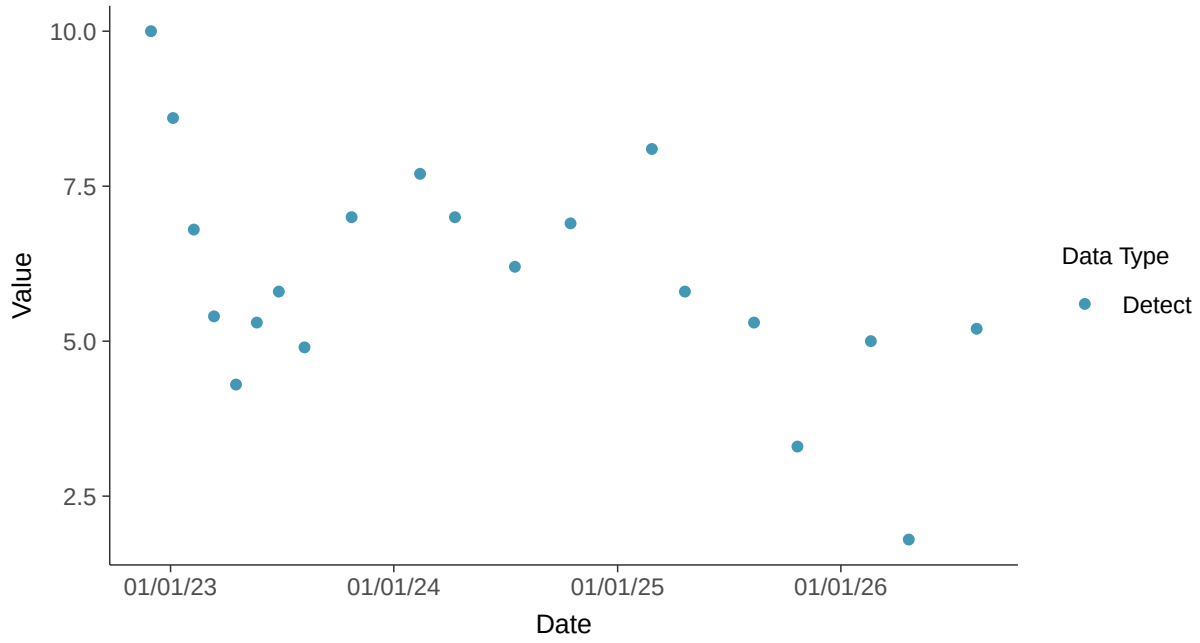


Part 115: Iron, MW-18

ID: 28_1_5_114

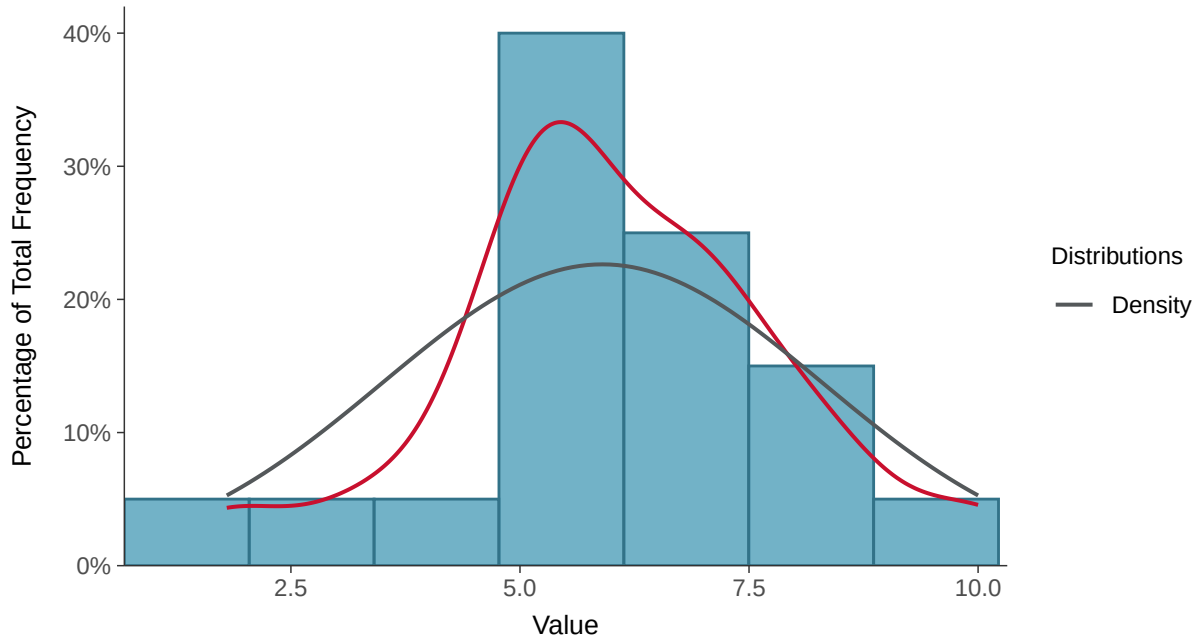
Scatter Plot

Iron, MW-18 (mg/L)



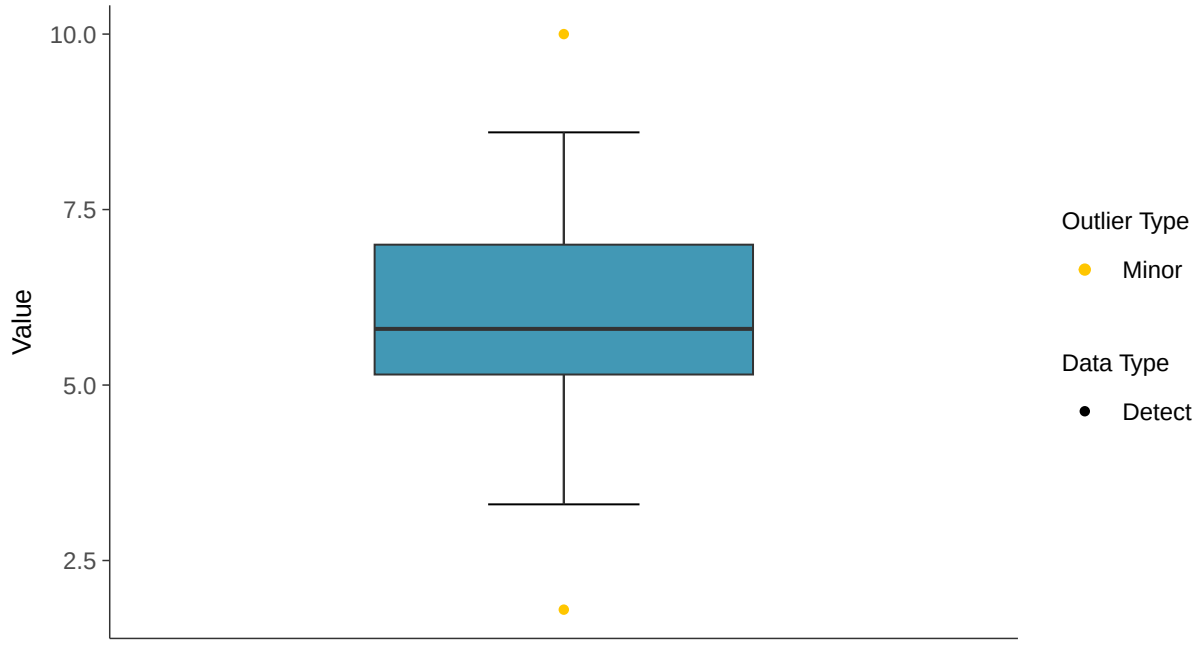
Histogram

Iron, MW-18 (mg/L)



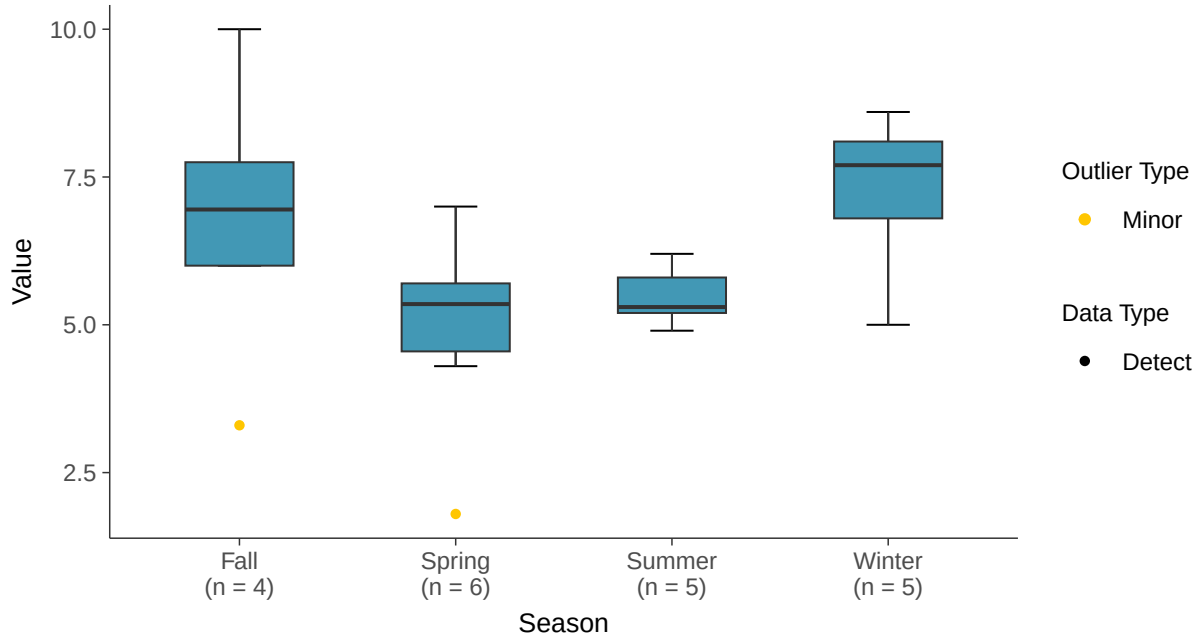
Boxplot

Iron, MW-18 (mg/L)



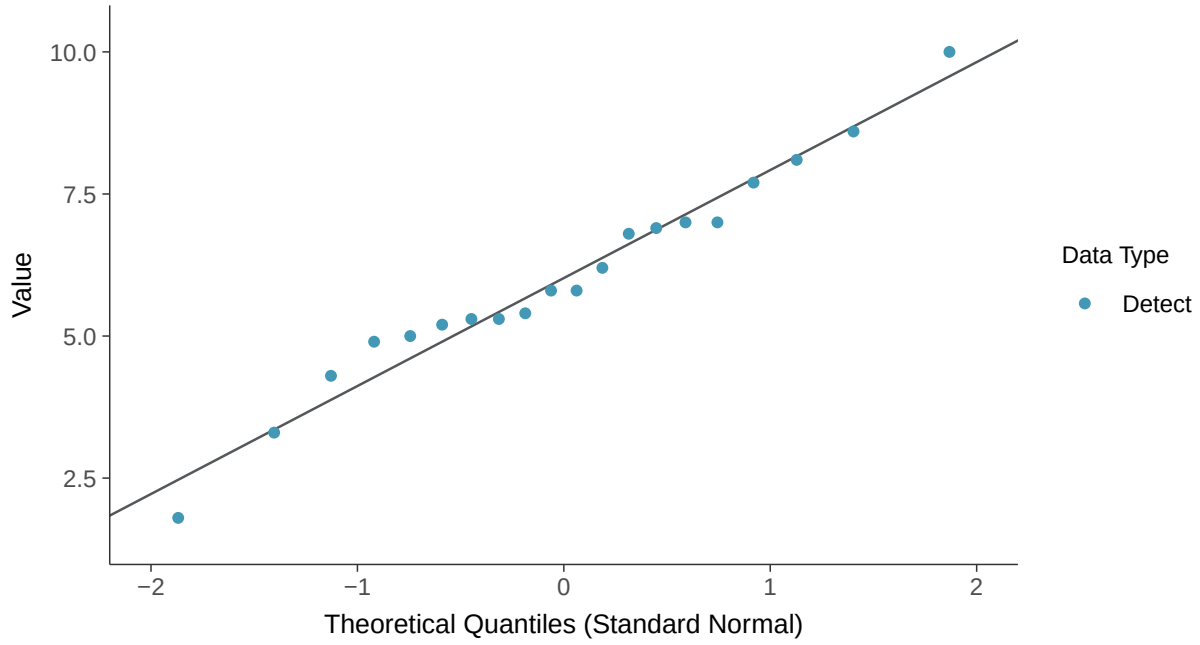
Boxplot by Season

Iron, MW-18 (mg/L)



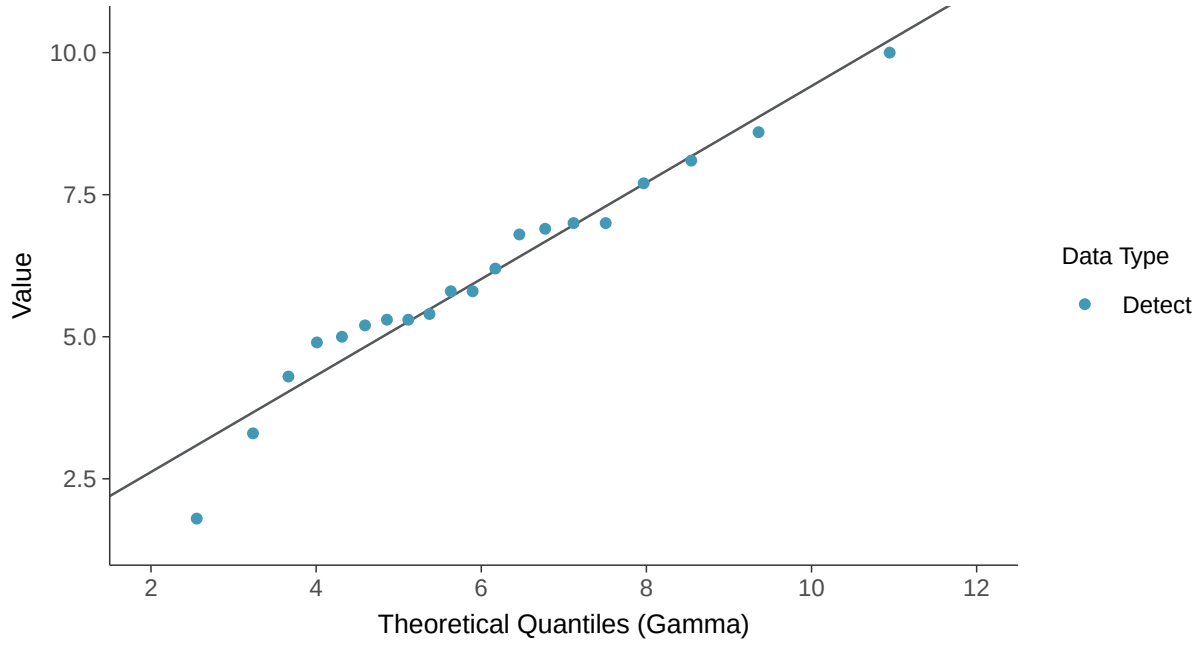
Normal Q-Q plot

Iron, MW-18 (mg/L)



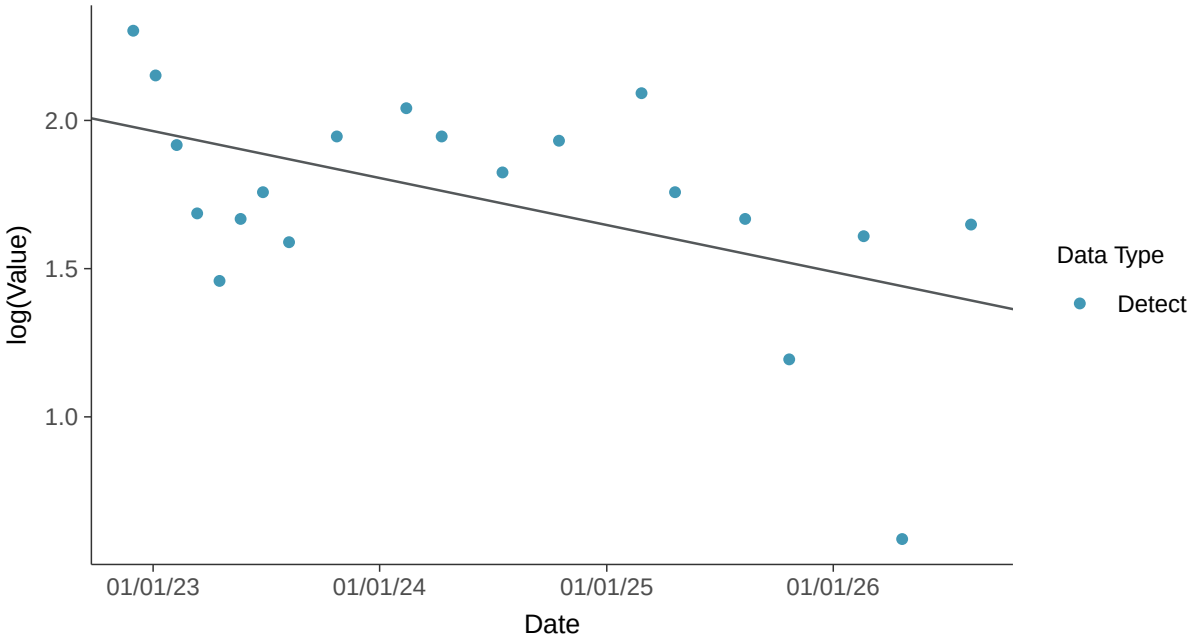
Gamma Q-Q plot

Iron, MW-18 (mg/L)



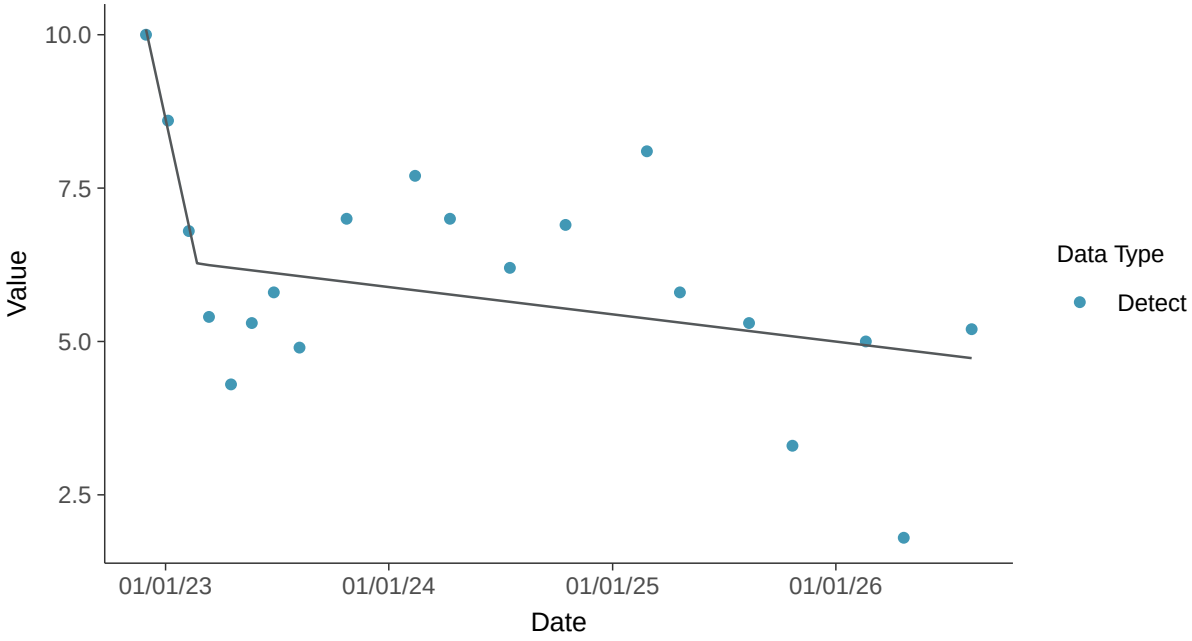
Trend Regression: Lognormal MLE

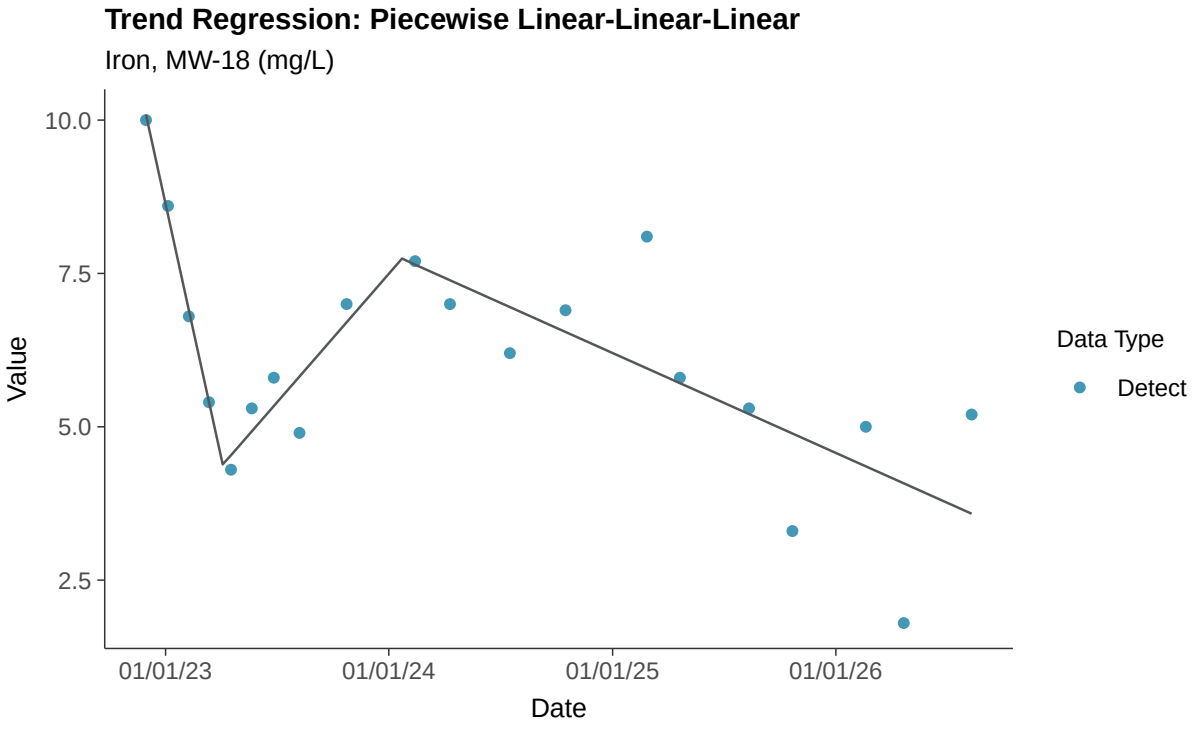
Iron, MW-18 (mg/L)



Trend Regression: Piecewise Linear-Linear

Iron, MW-18 (mg/L)



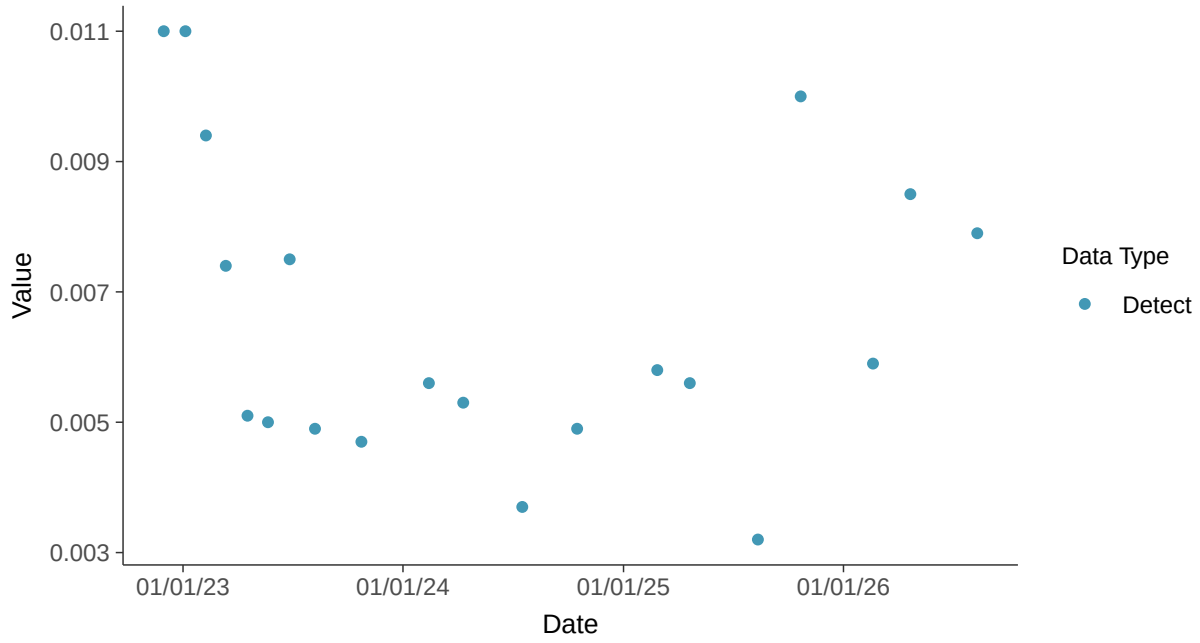

Trend Regression: Piecewise Linear-Linear-Linear
Iron, MW-18 (mg/L)
Value
10.0
7.5
5.0
2.5
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect

Part 115: Nickel, MW-18

ID: 28_1_5_119

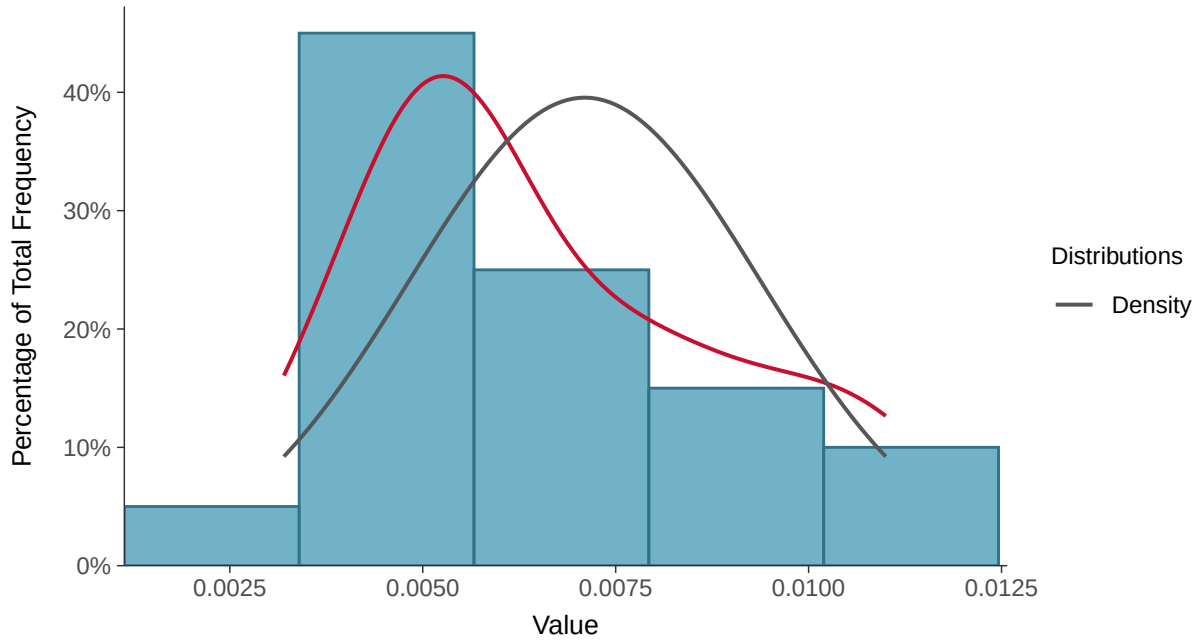
Scatter Plot

Nickel, MW-18 (mg/L)



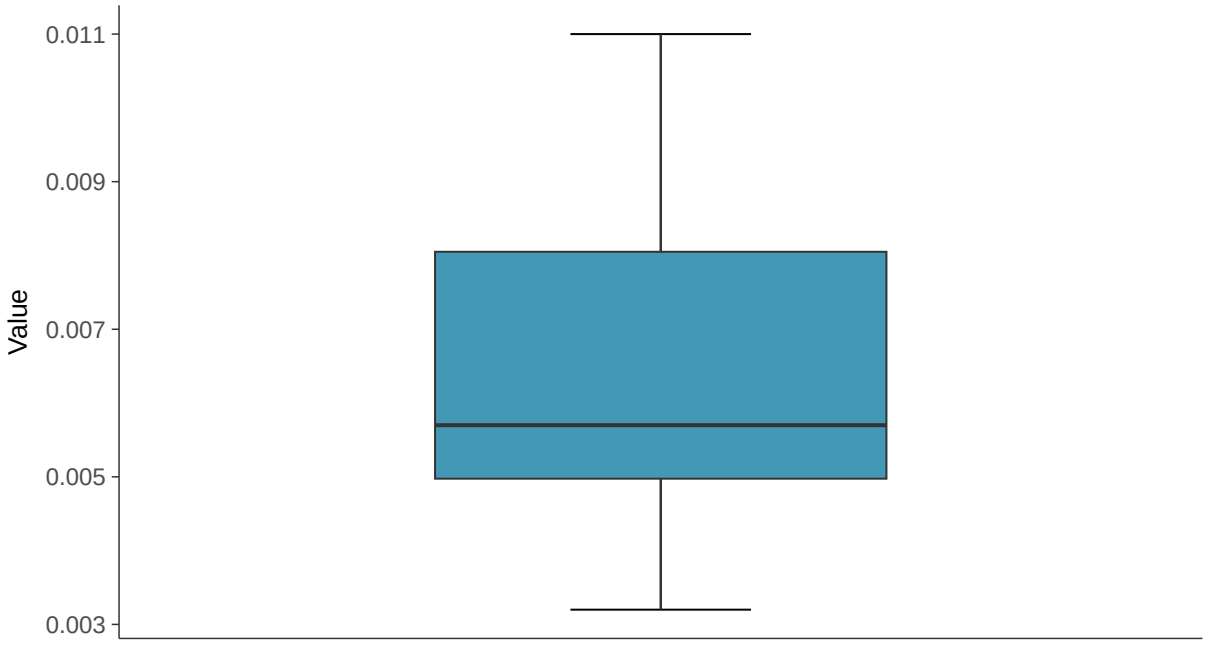
Histogram

Nickel, MW-18 (mg/L)



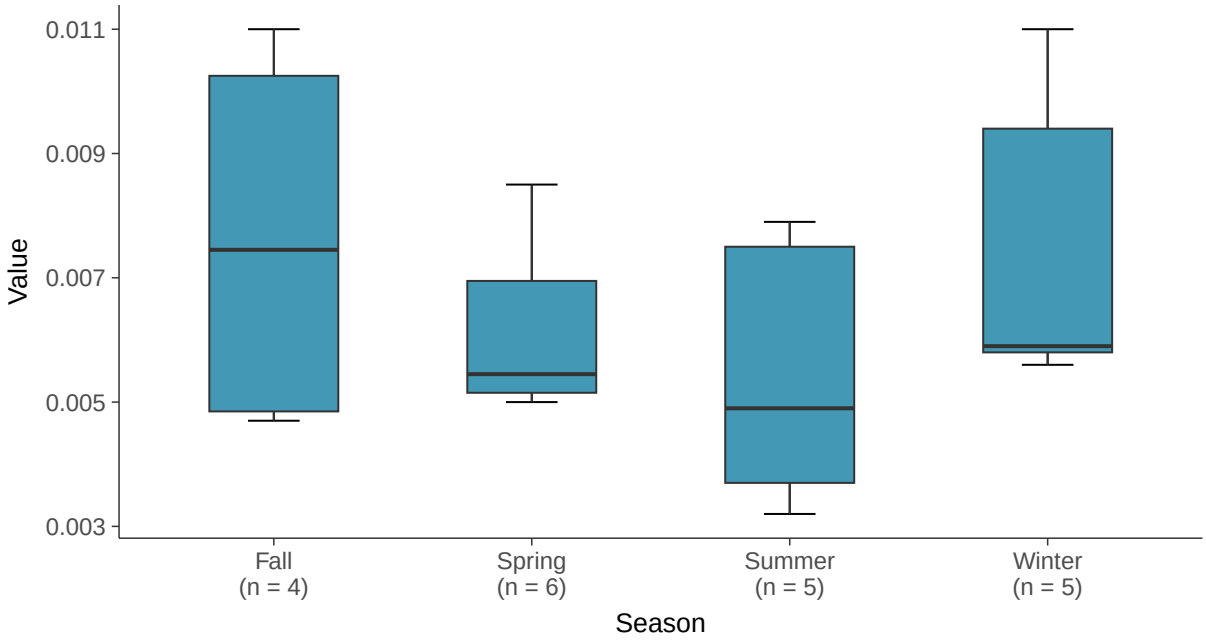
Boxplot

Nickel, MW-18 (mg/L)



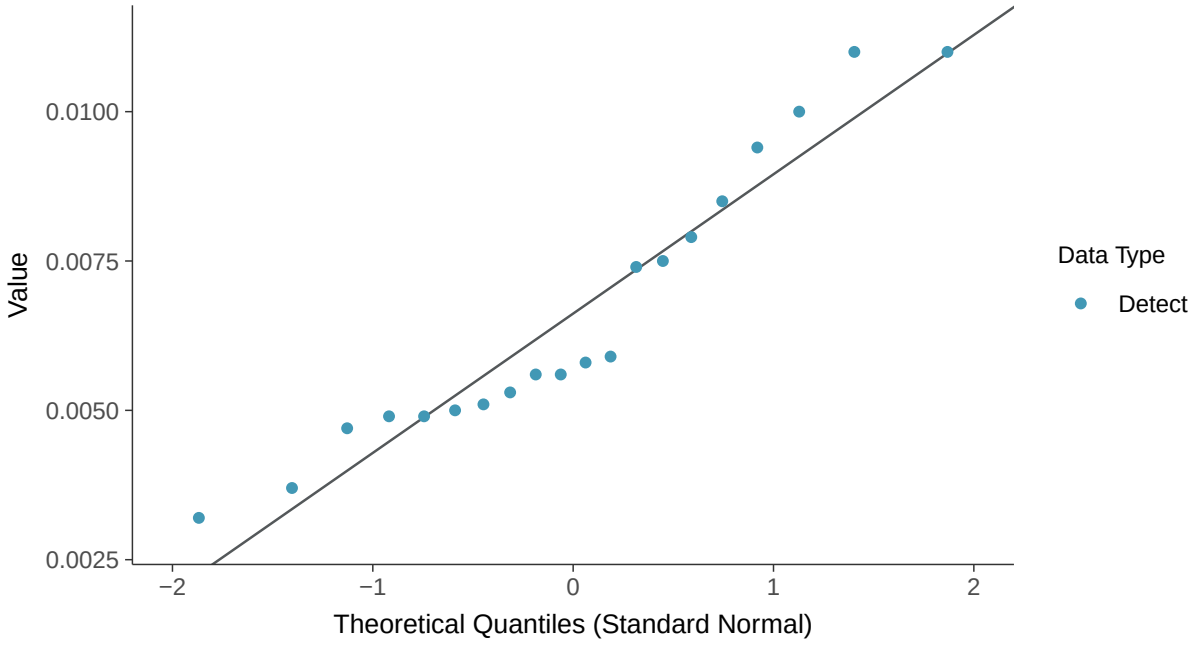
Boxplot by Season

Nickel, MW-18 (mg/L)



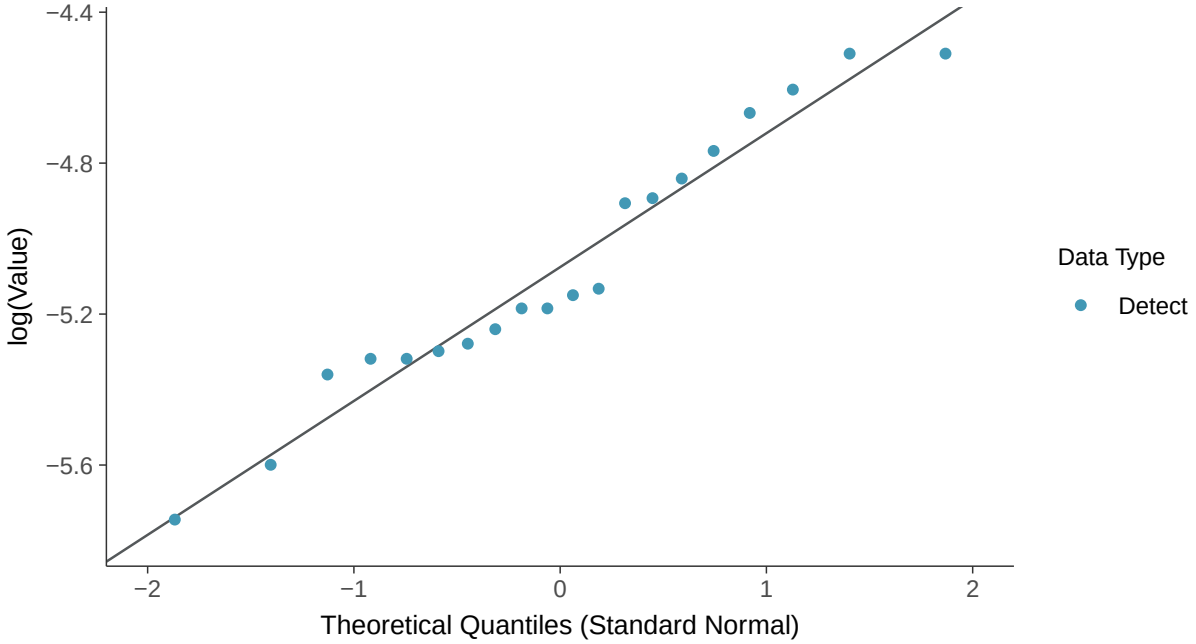
Normal Q-Q plot

Nickel, MW-18 (mg/L)



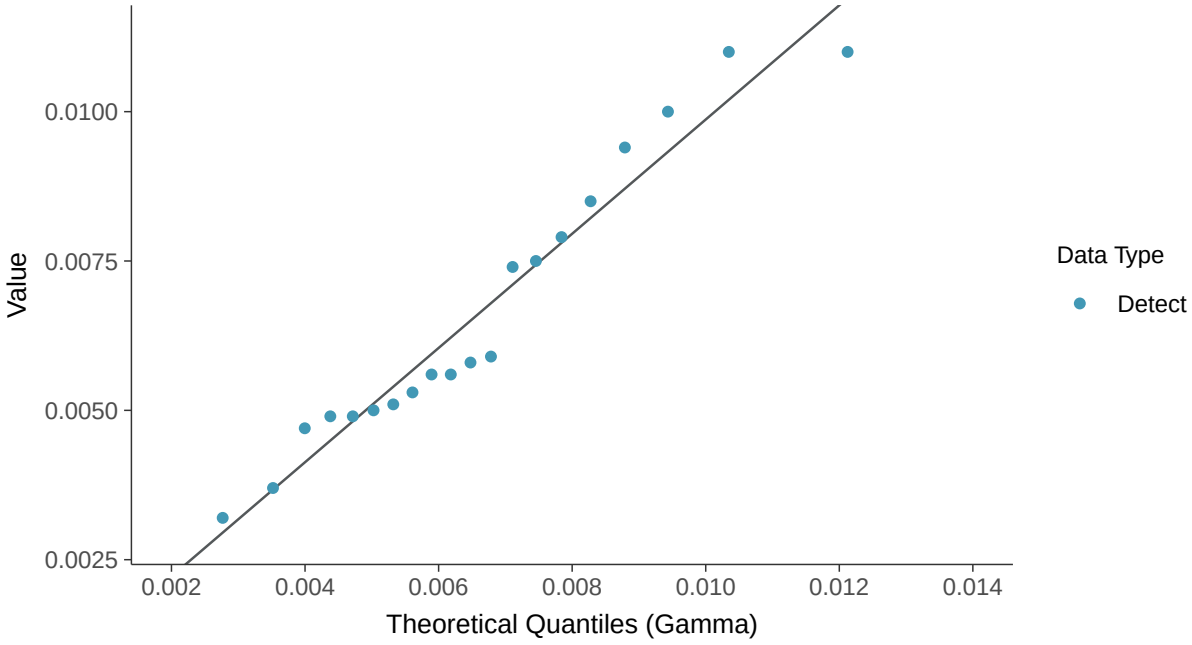
Lognormal Q-Q plot

Nickel, MW-18 (mg/L)



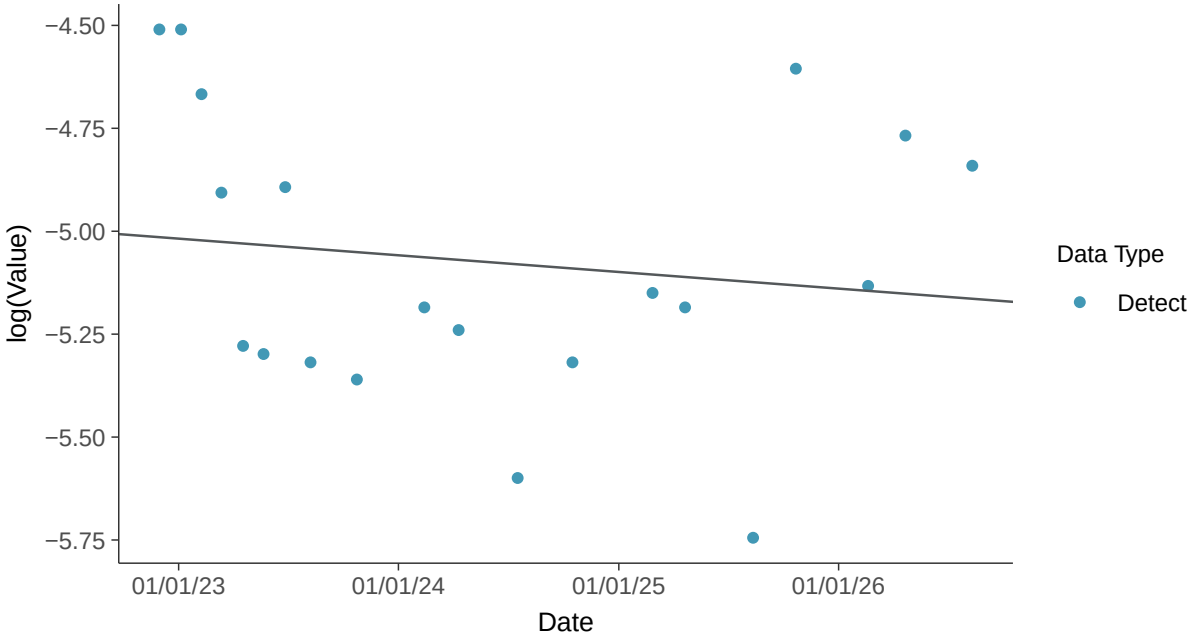
Gamma Q-Q plot

Nickel, MW-18 (mg/L)



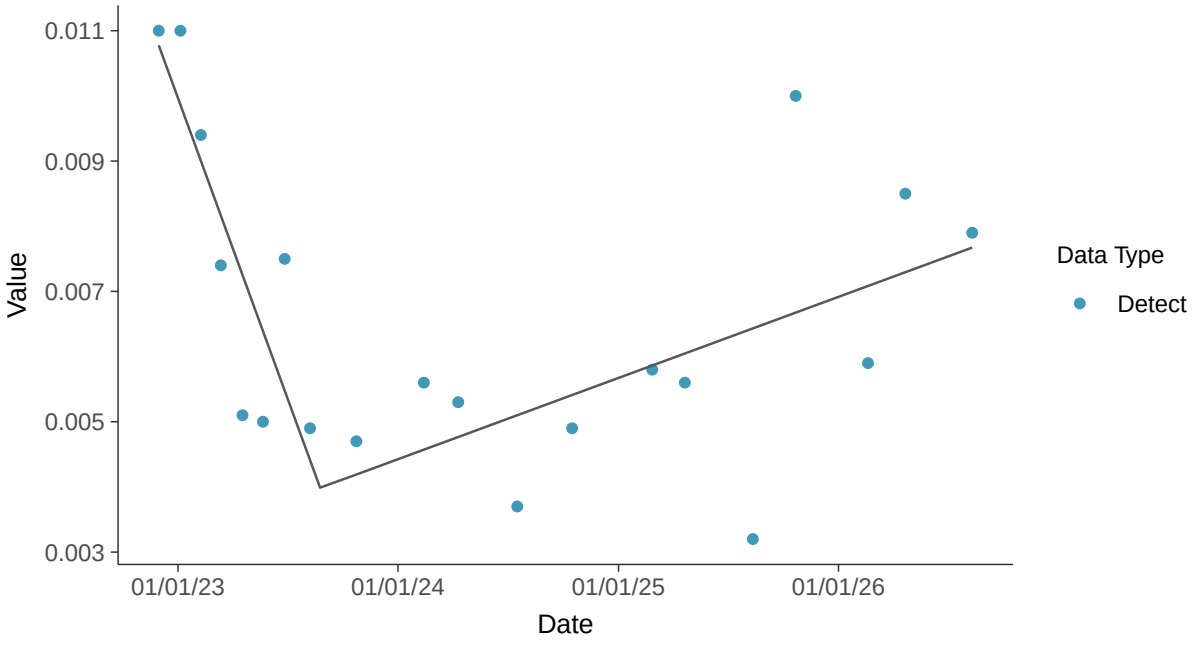
Trend Regression: Lognormal MLE

Nickel, MW-18 (mg/L)



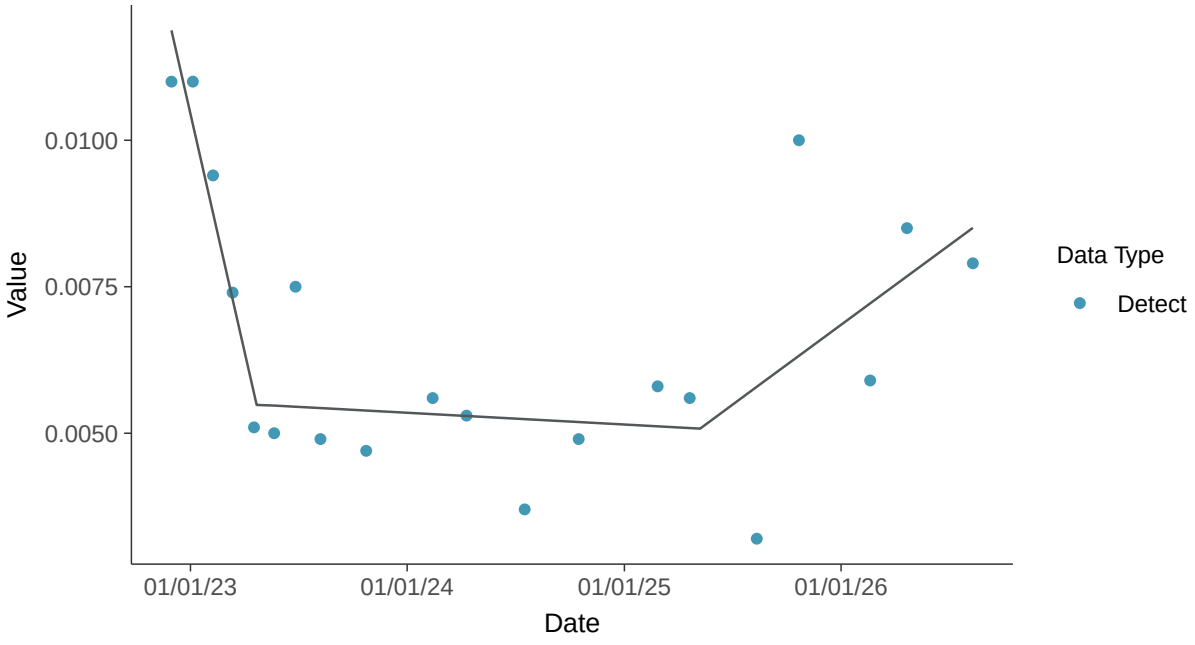
Trend Regression: Piecewise Linear-Linear

Nickel, MW-18 (mg/L)



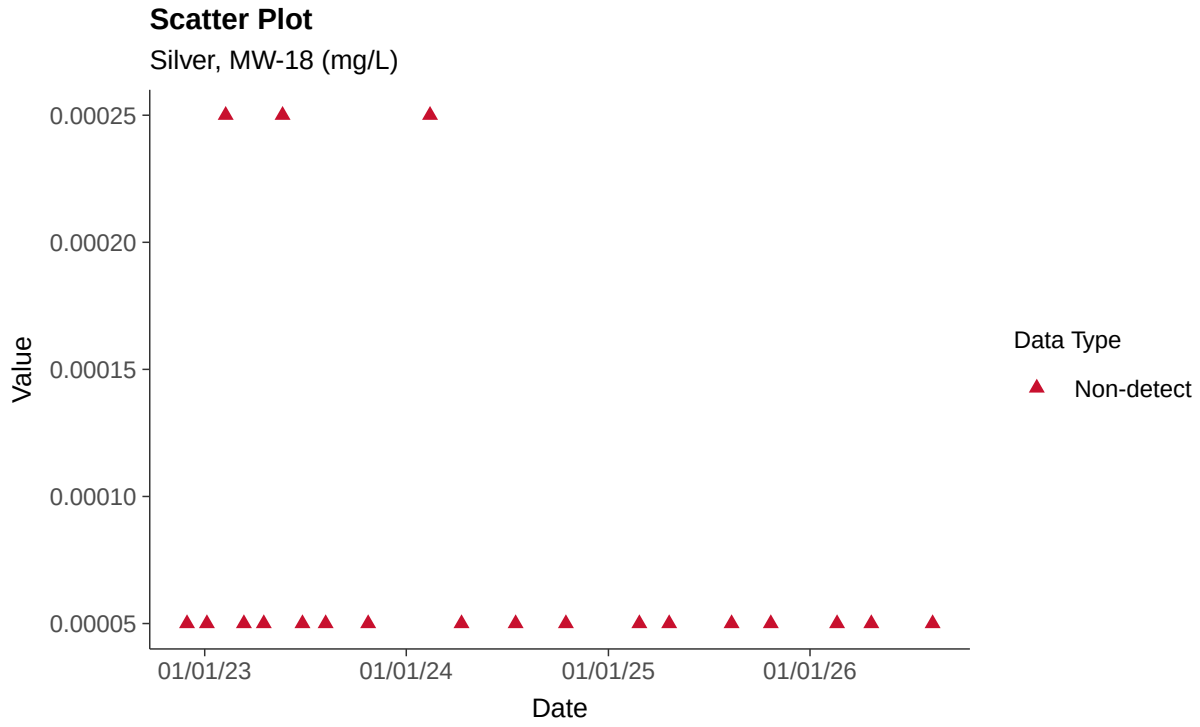
Trend Regression: Piecewise Linear-Linear-Linear

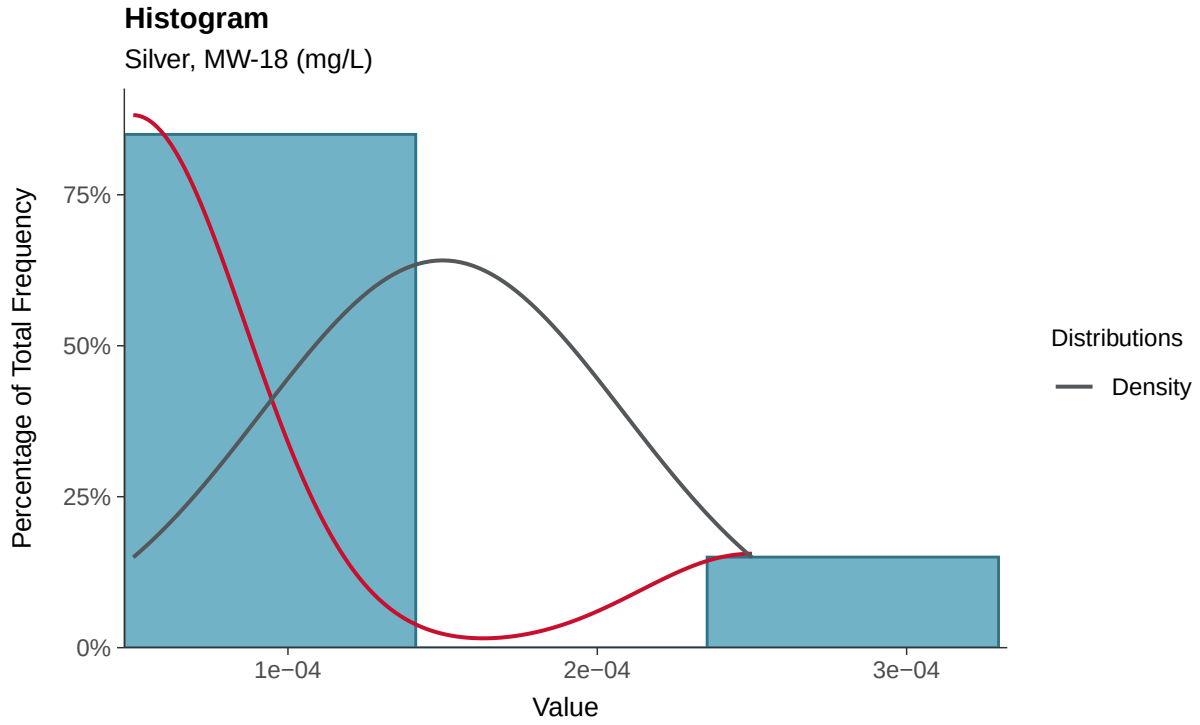
Nickel, MW-18 (mg/L)



Part 115: Silver, MW-18

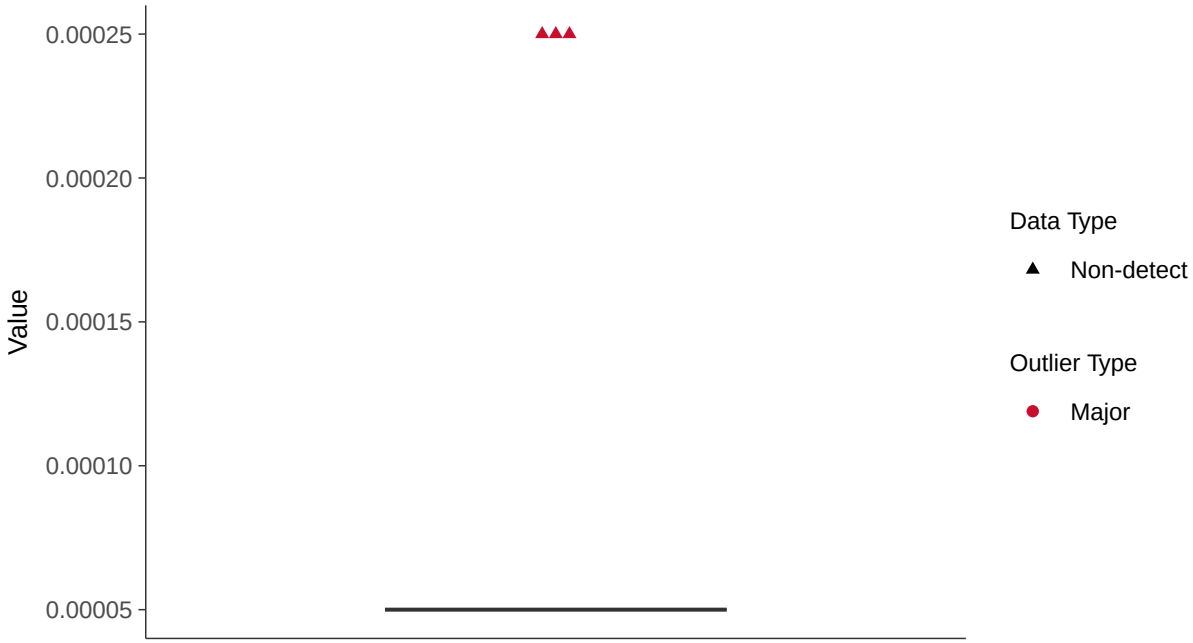
ID: 28_1_5_123





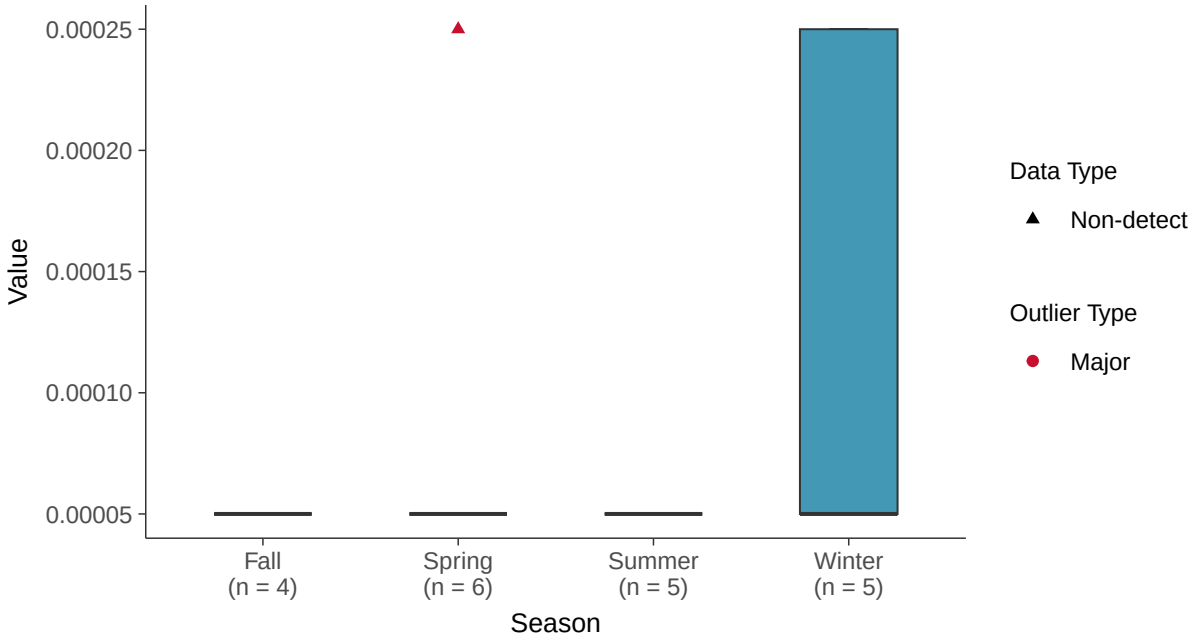
Boxplot

Silver, MW-18 (mg/L)



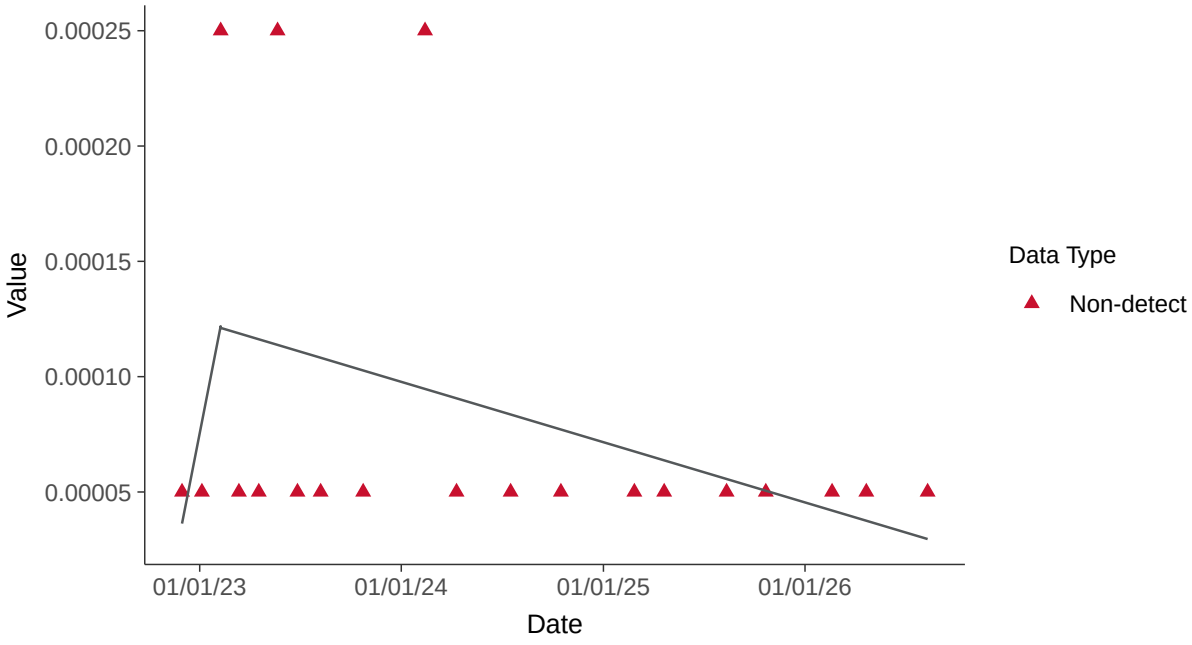
Boxplot by Season

Silver, MW-18 (mg/L)



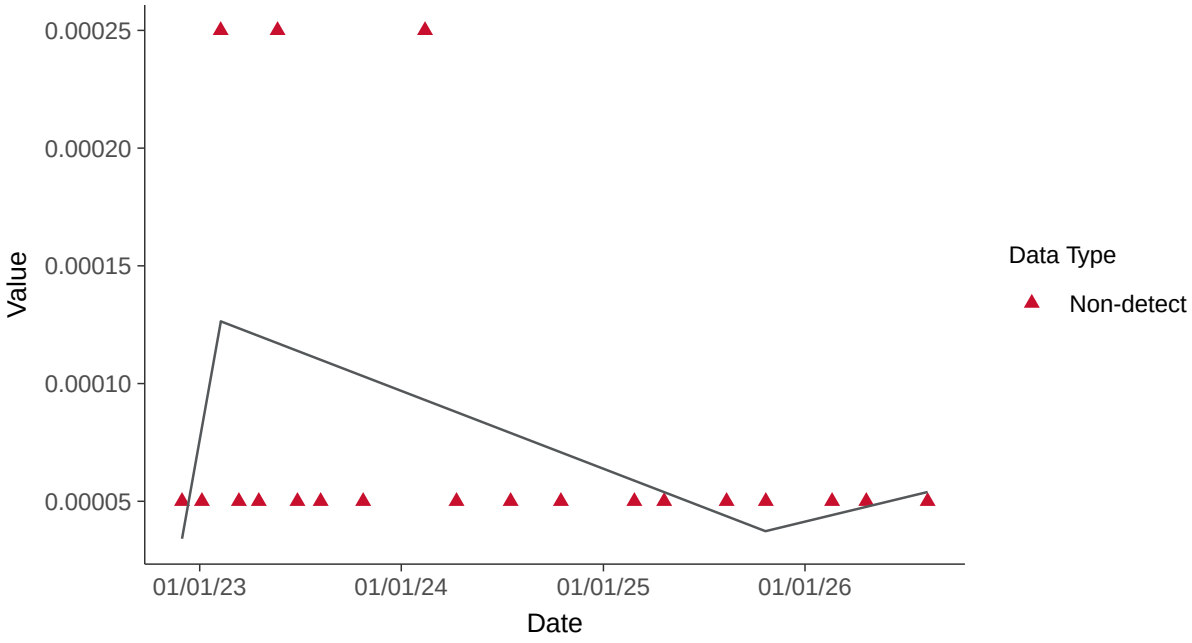
Trend Regression: Piecewise Linear-Linear

Silver, MW-18 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Silver, MW-18 (mg/L)

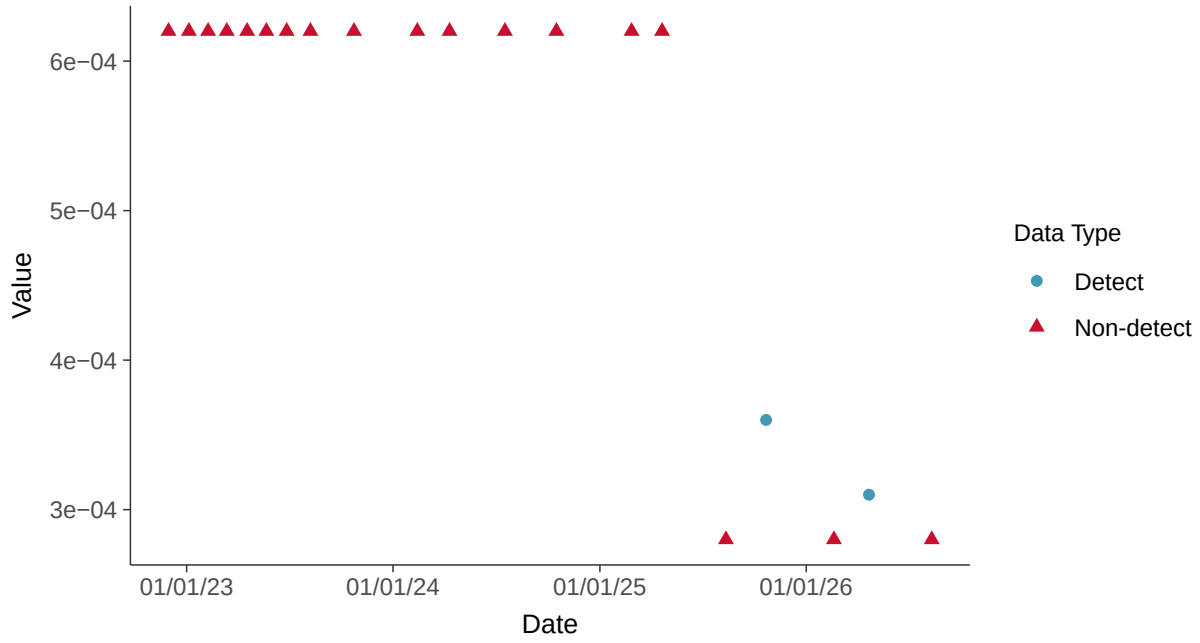


Part 115: Vanadium, MW-18

ID: 28_1_5_128

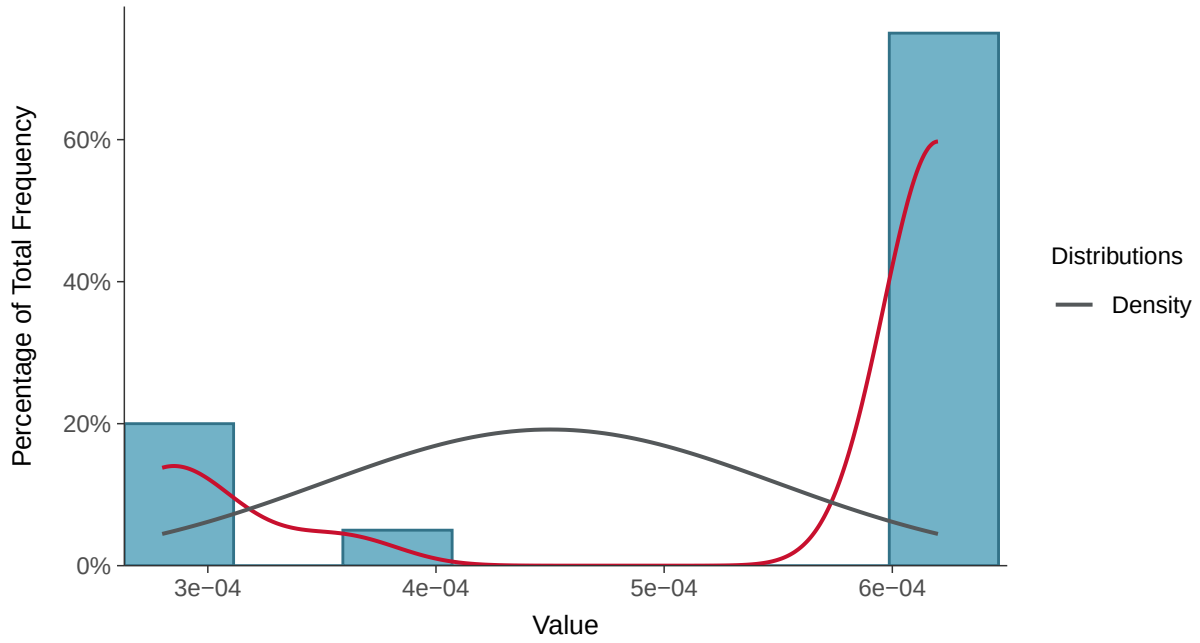
Scatter Plot

Vanadium, MW-18 (mg/L)



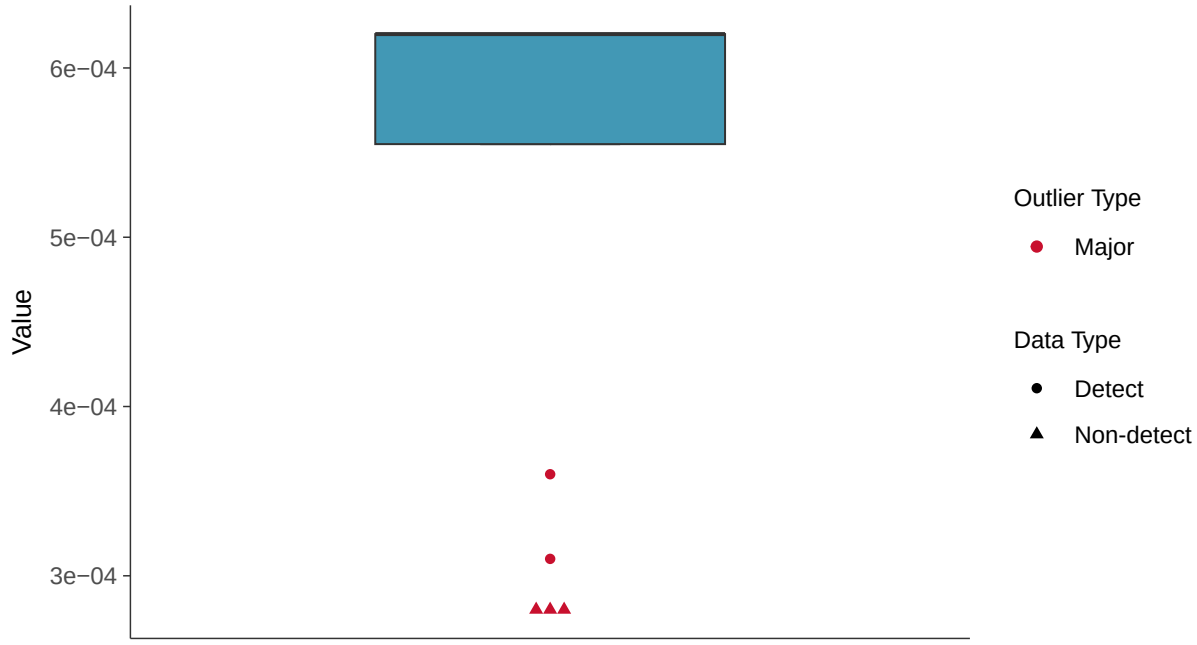
Histogram

Vanadium, MW-18 (mg/L)



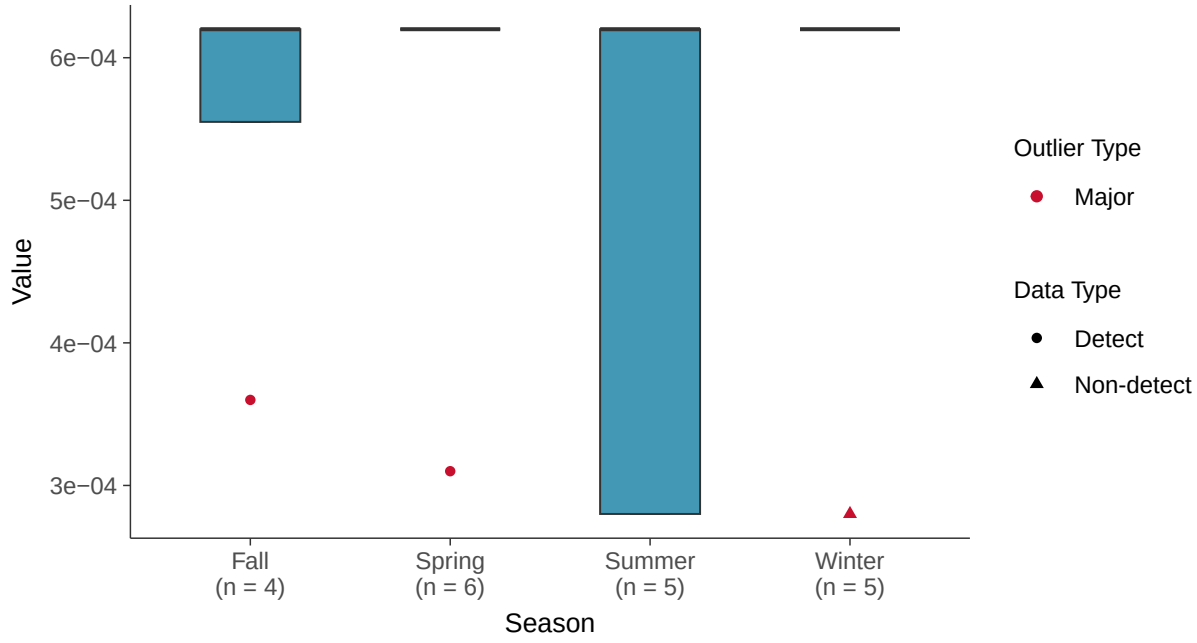
Boxplot

Vanadium, MW-18 (mg/L)



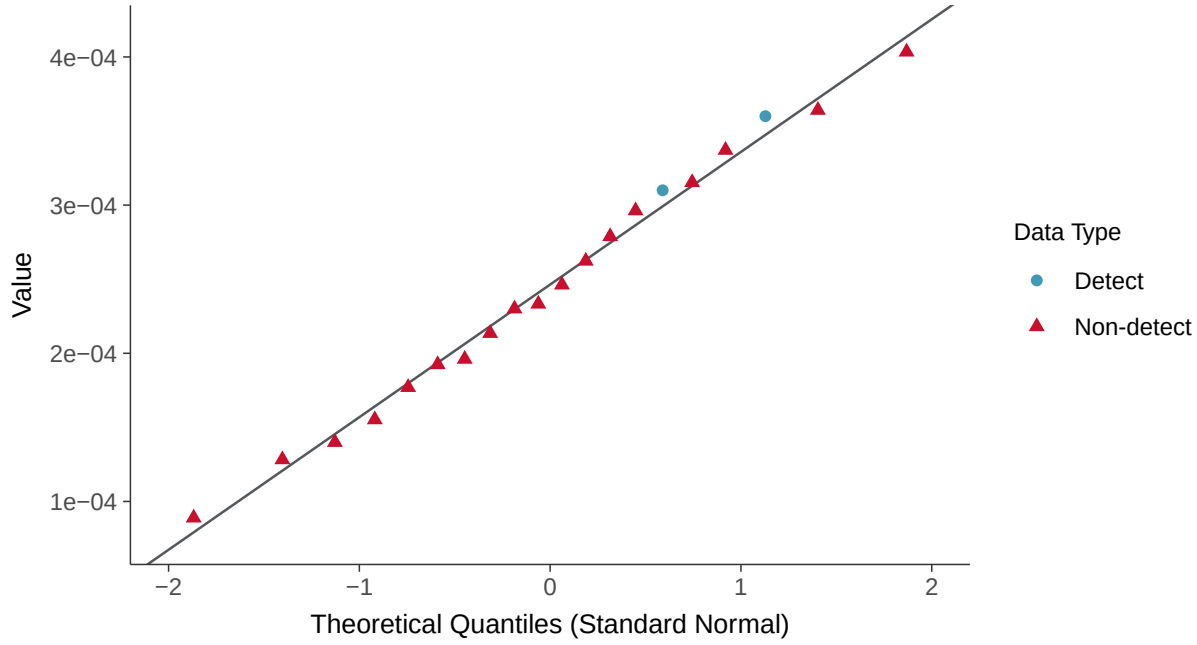
Boxplot by Season

Vanadium, MW-18 (mg/L)



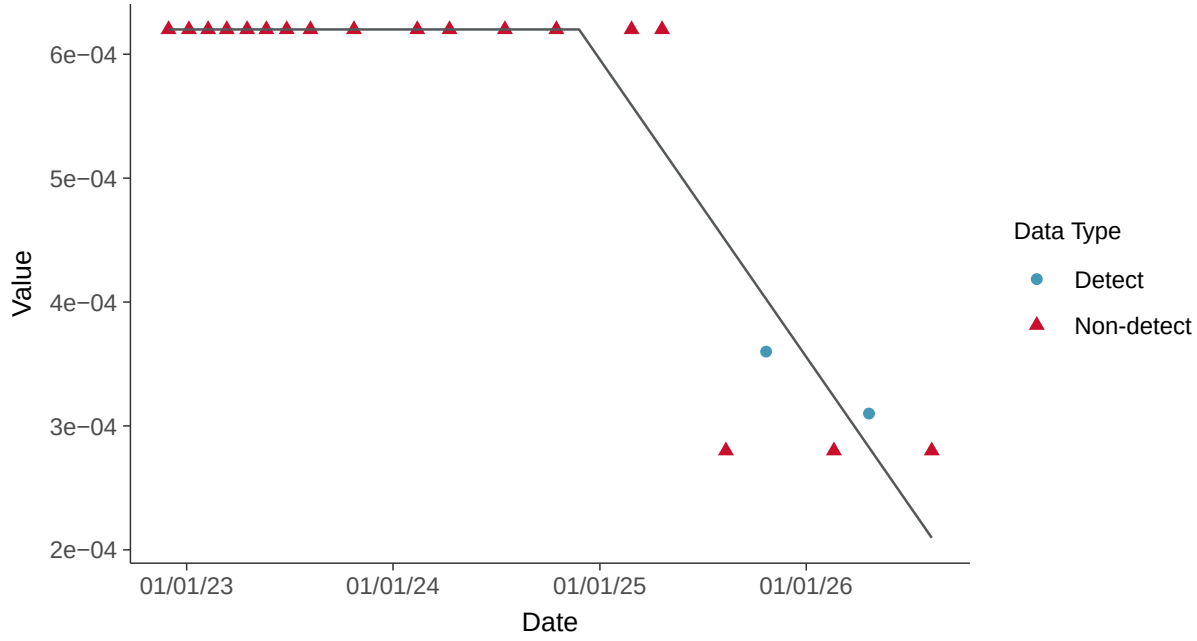
Normal Q-Q plot using ROS Imputed Estimates

Vanadium, MW-18 (mg/L)



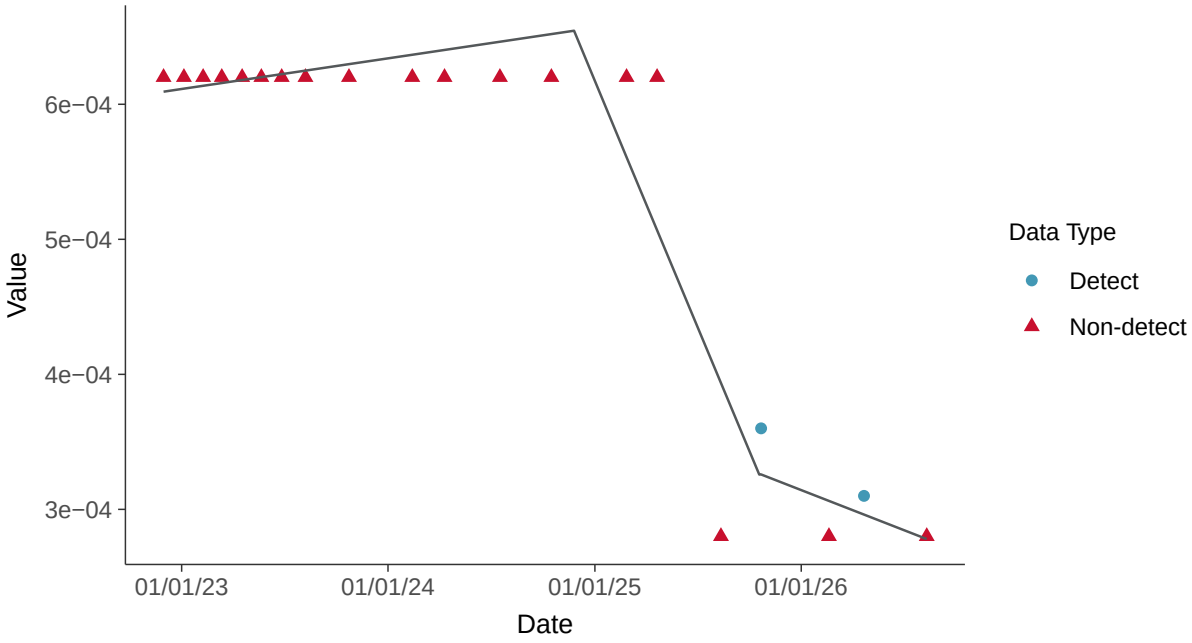
Trend Regression: Piecewise Linear-Linear

Vanadium, MW-18 (mg/L)



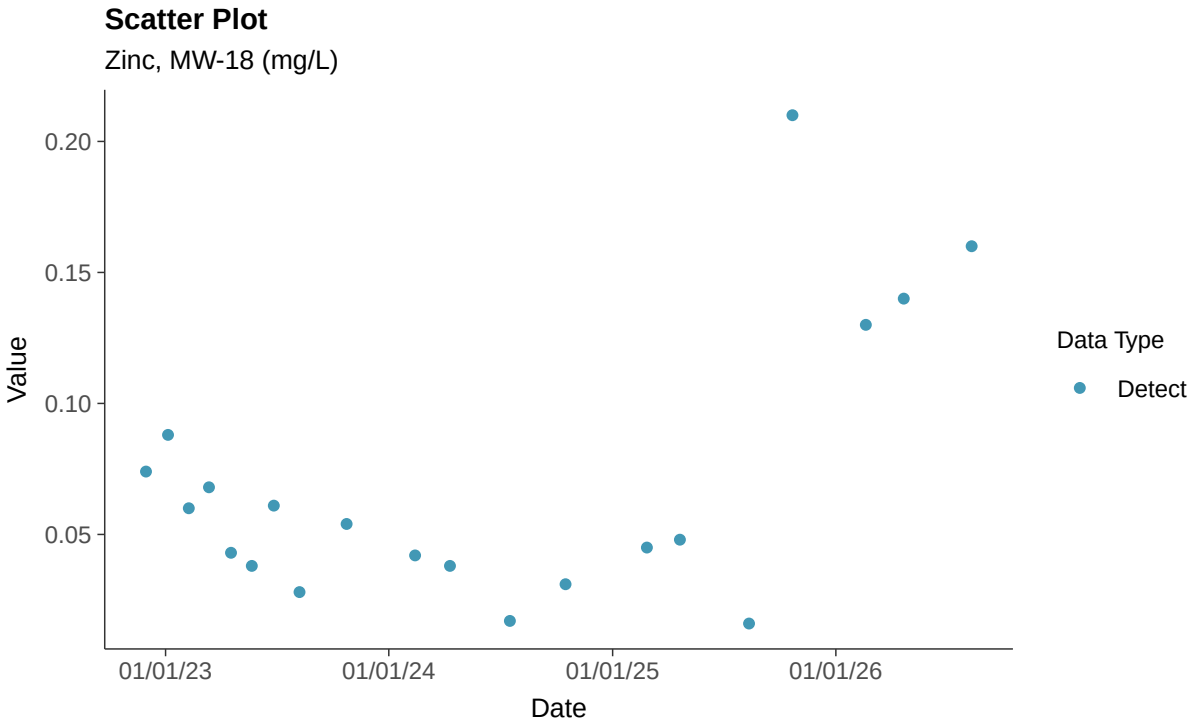
Trend Regression: Piecewise Linear-Linear-Linear

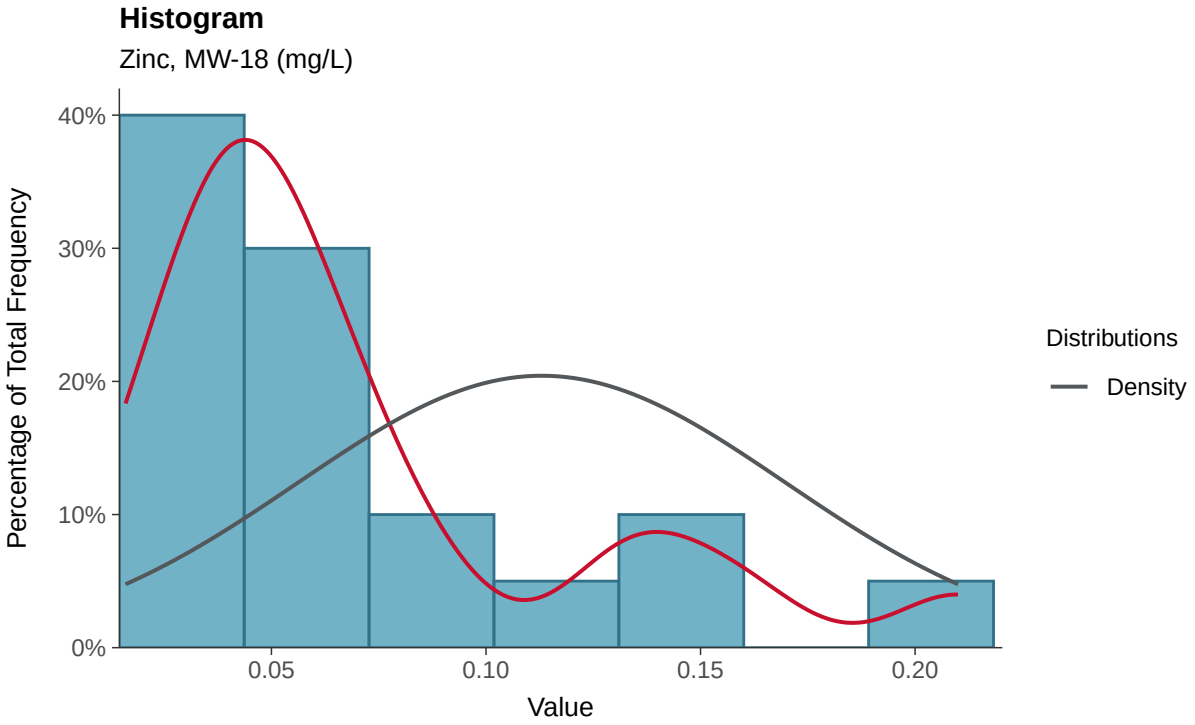
Vanadium, MW-18 (mg/L)



Part 115: Zinc, MW-18

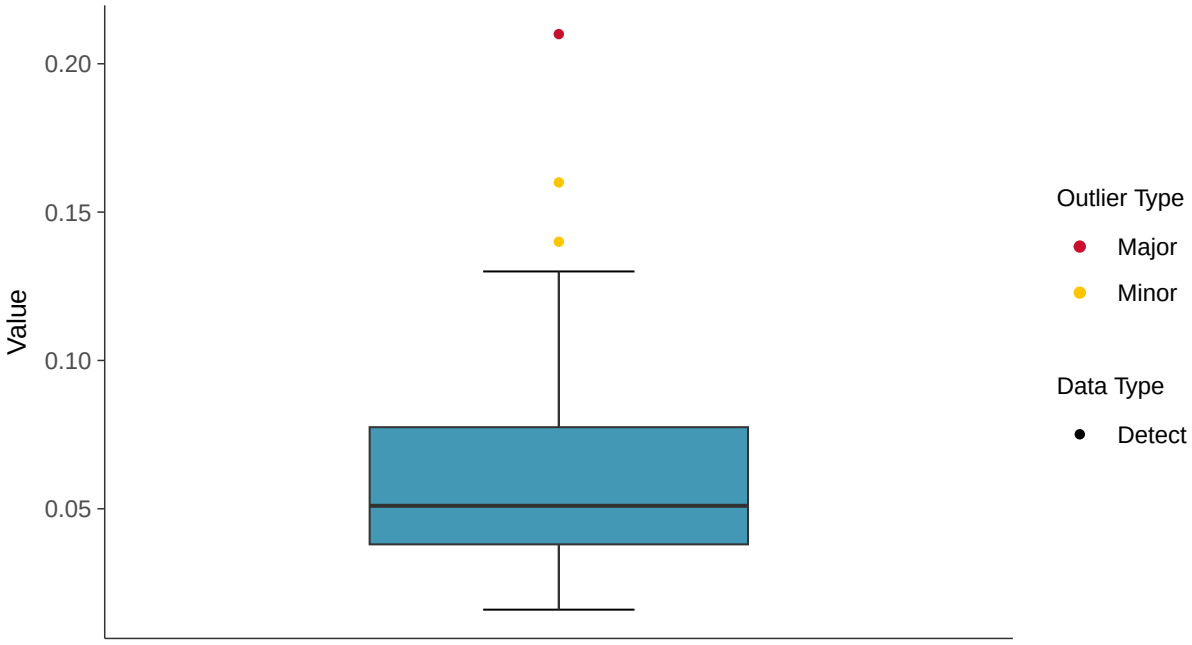
ID: 28_1_5_129





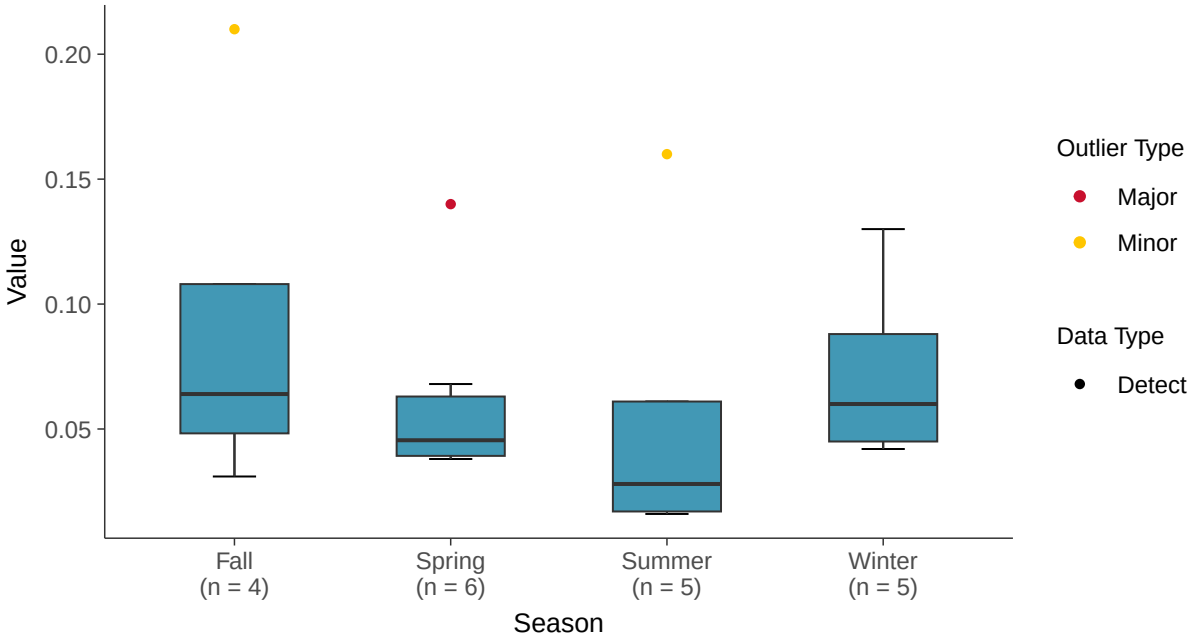
Boxplot

Zinc, MW-18 (mg/L)



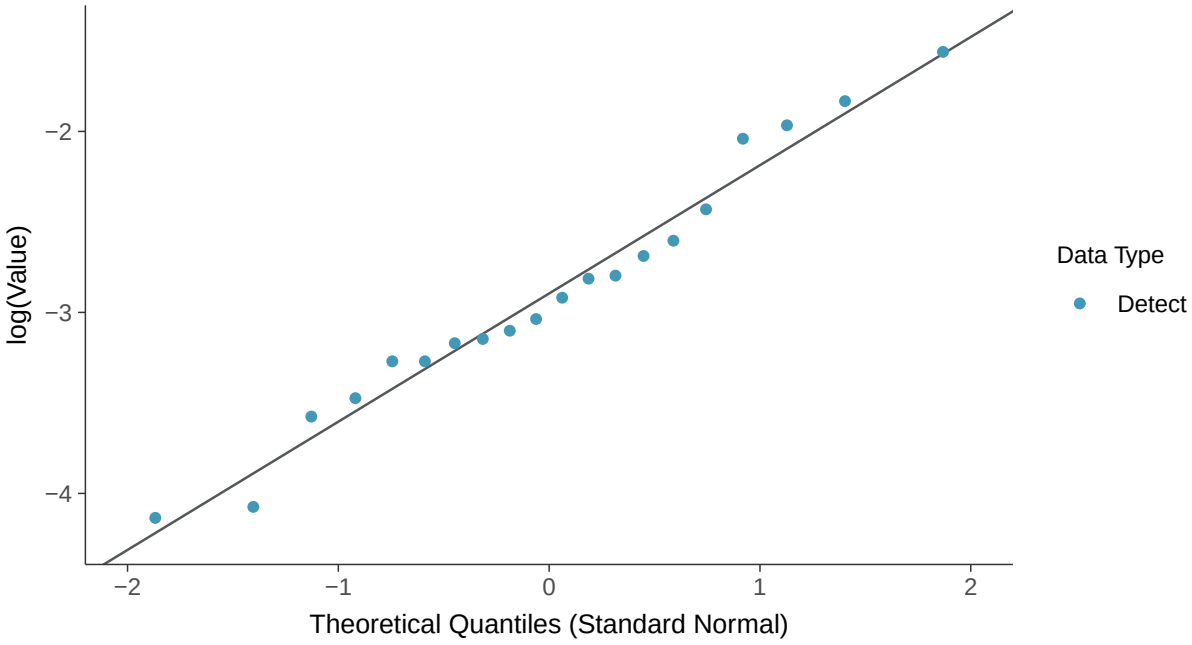
Boxplot by Season

Zinc, MW-18 (mg/L)



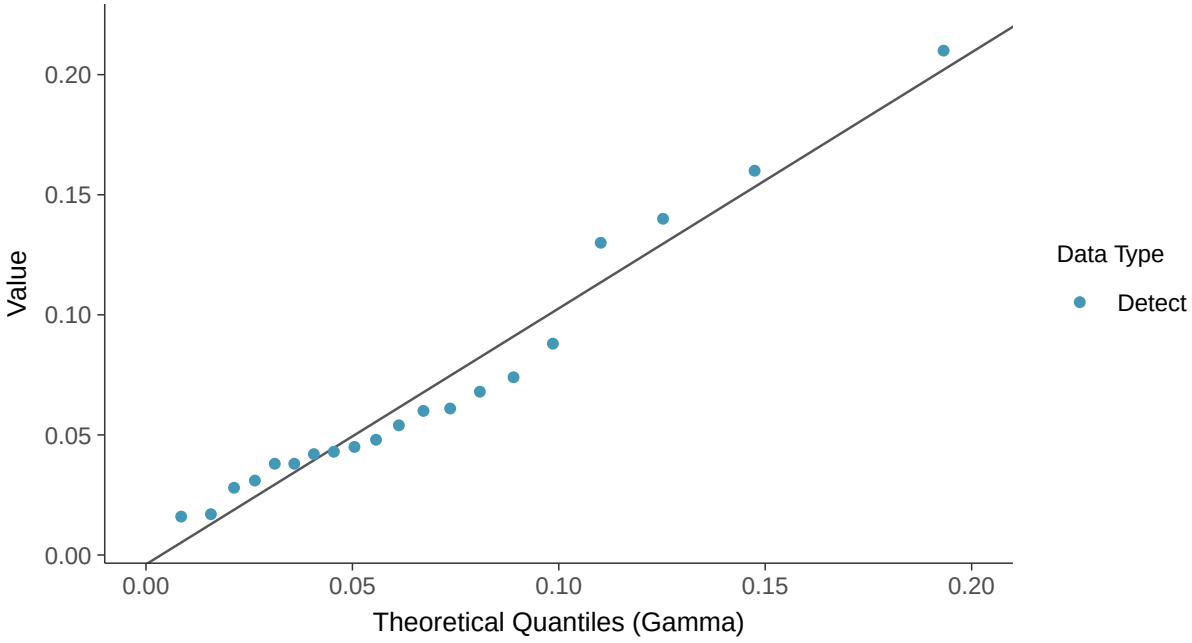
Lognormal Q-Q plot

Zinc, MW-18 (mg/L)



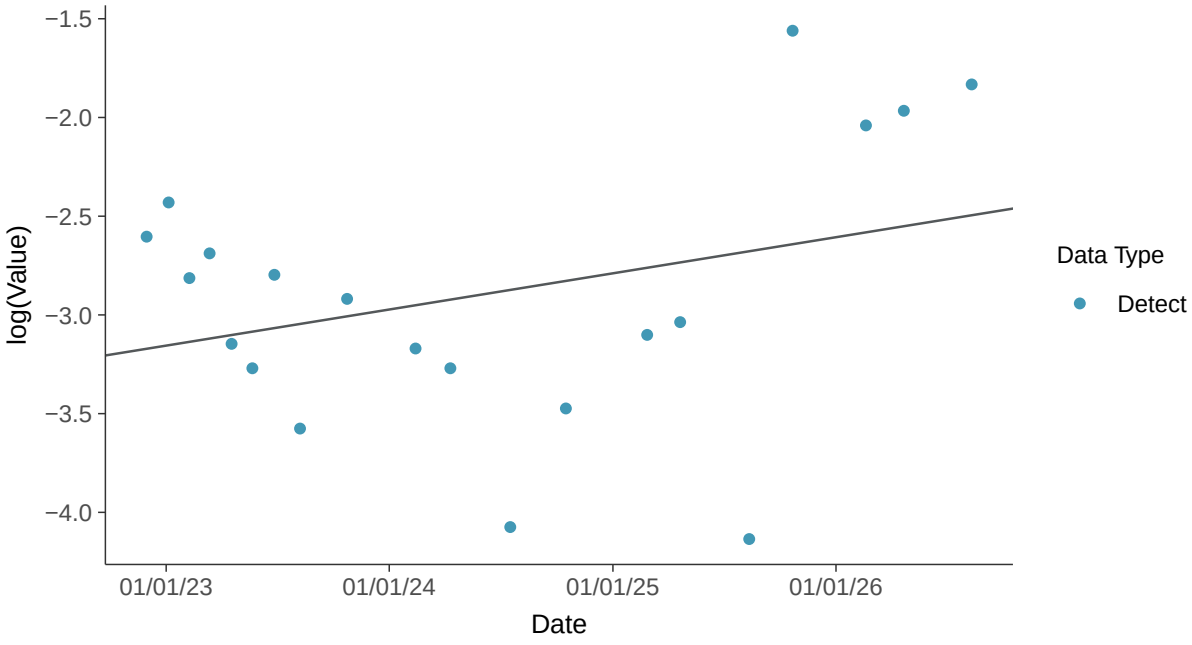
Gamma Q-Q plot

Zinc, MW-18 (mg/L)



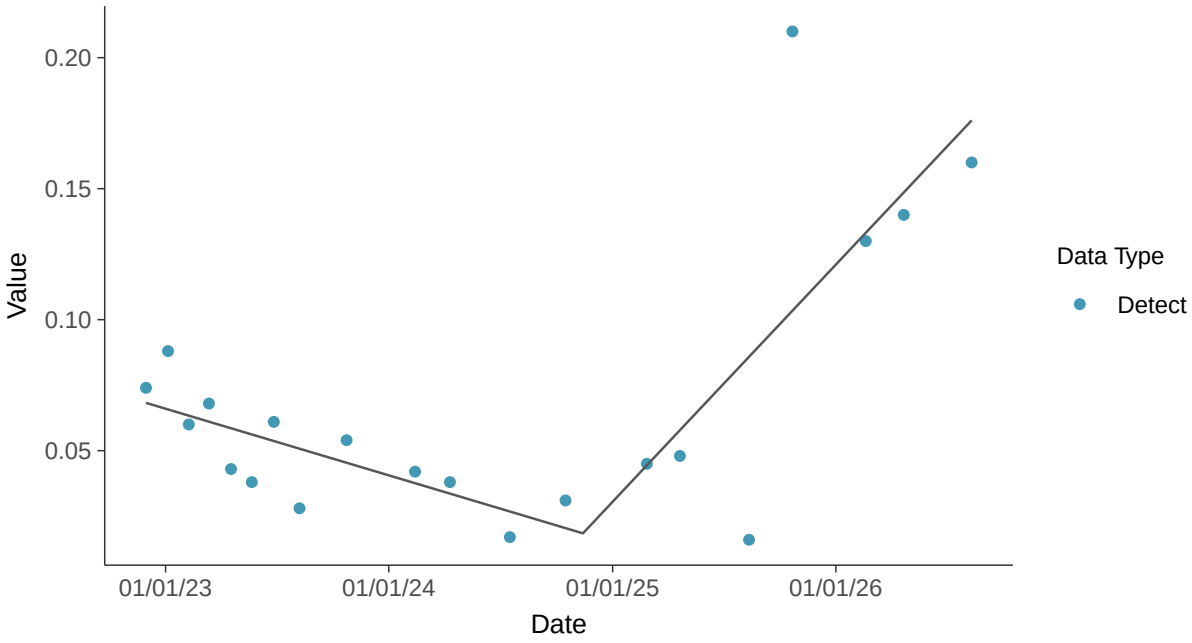
Trend Regression: Lognormal MLE

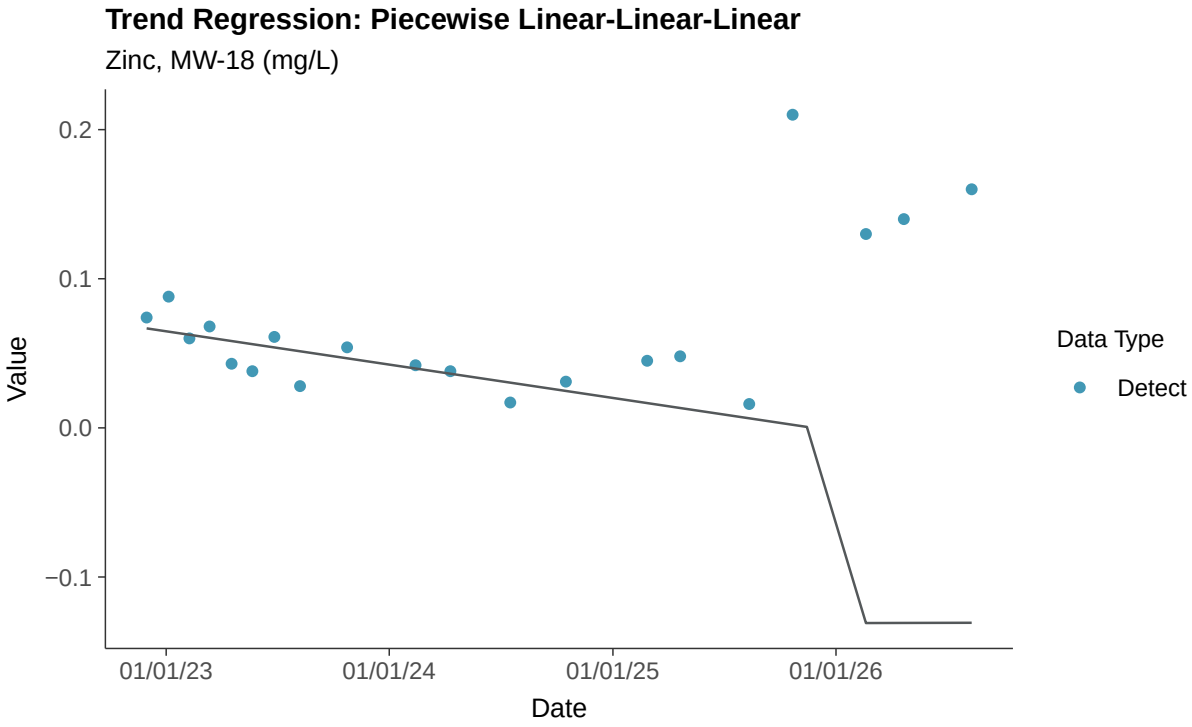
Zinc, MW-18 (mg/L)



Trend Regression: Piecewise Linear-Linear

Zinc, MW-18 (mg/L)



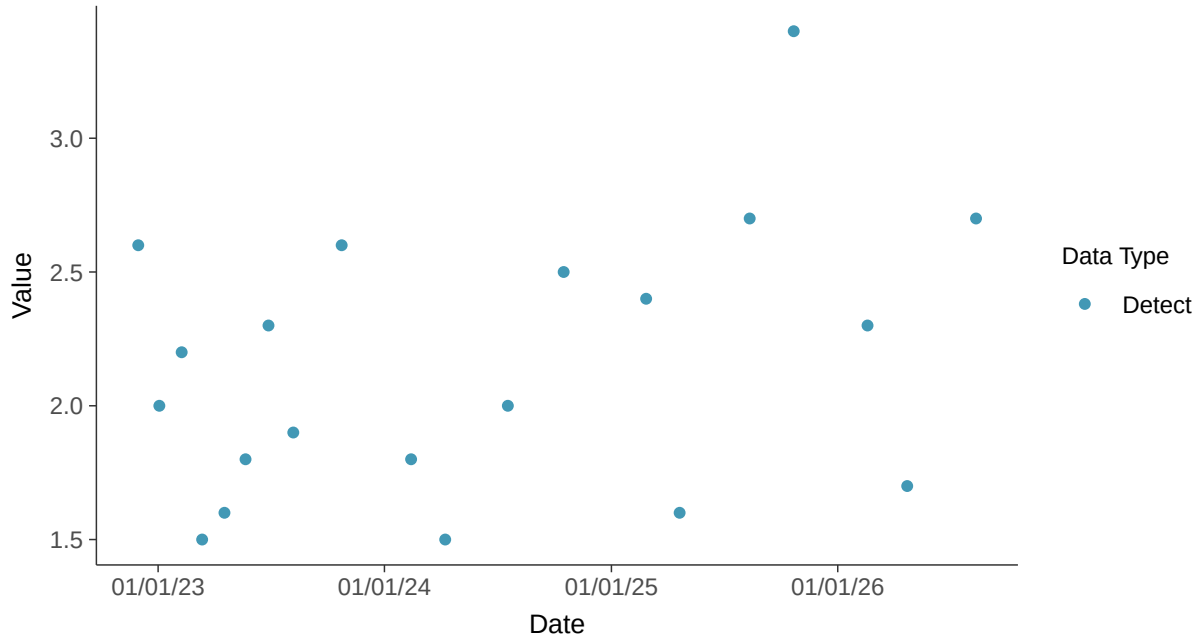

Trend Regression: Piecewise Linear-Linear-Linear
Zinc, MW-18 (mg/L)
Value
0.2
0.1
0.0
−0.1
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect

Appendix III: Boron, MW-19

ID: 29_1_3_105

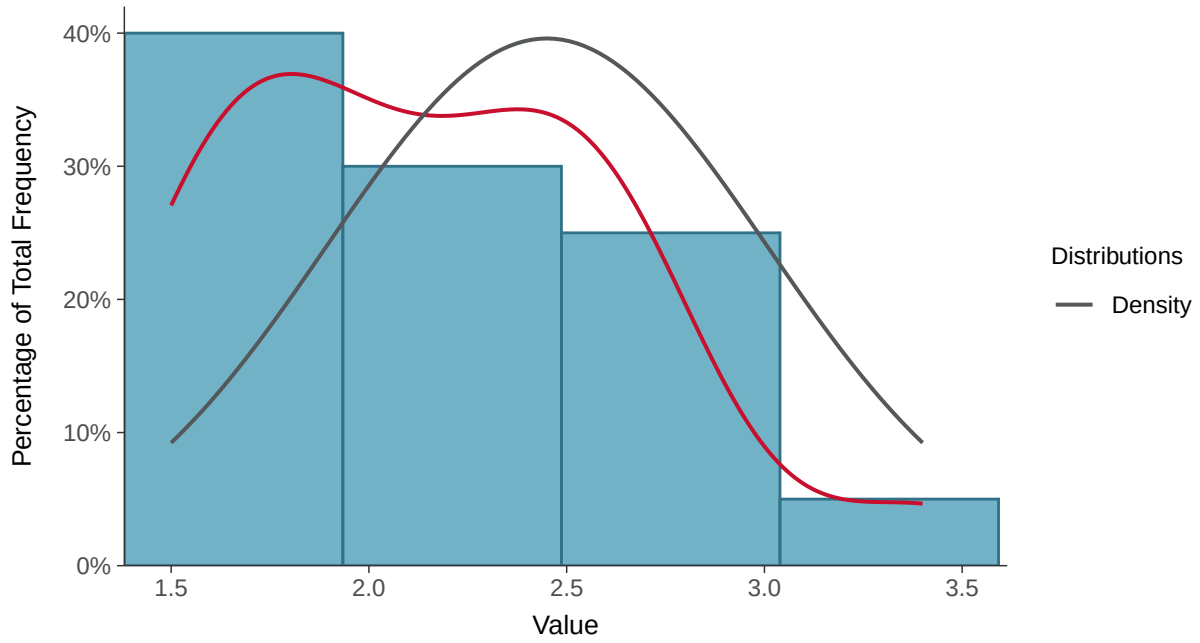
Scatter Plot

Boron, MW-19 (mg/L)



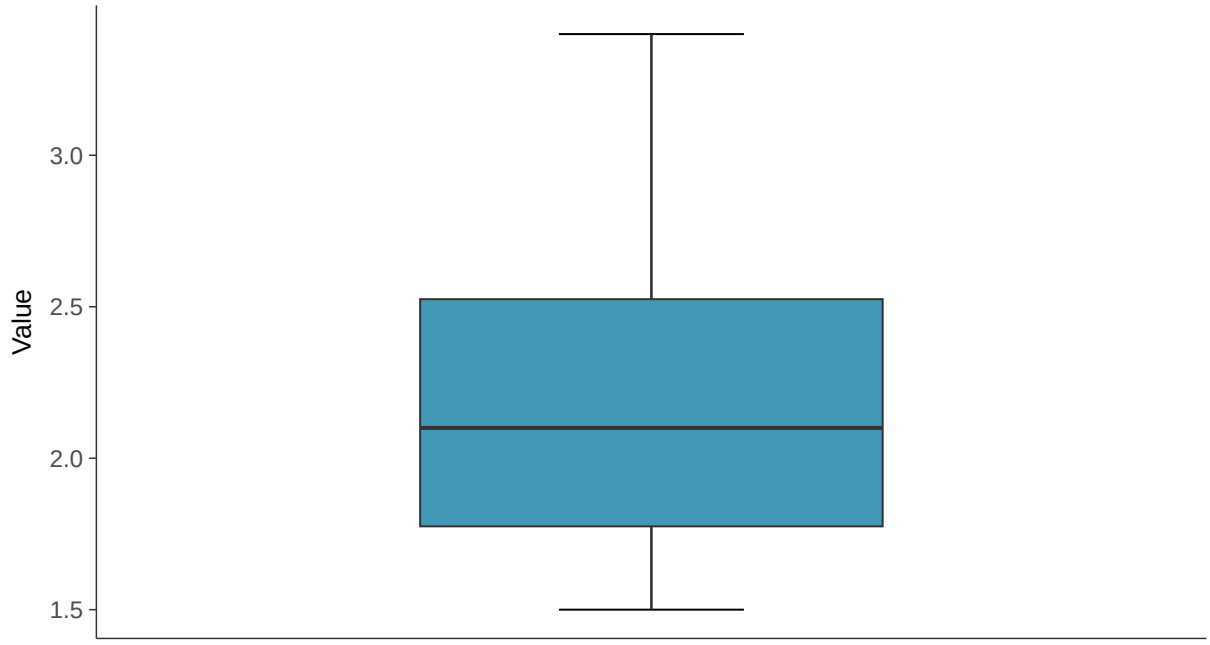
Histogram

Boron, MW-19 (mg/L)



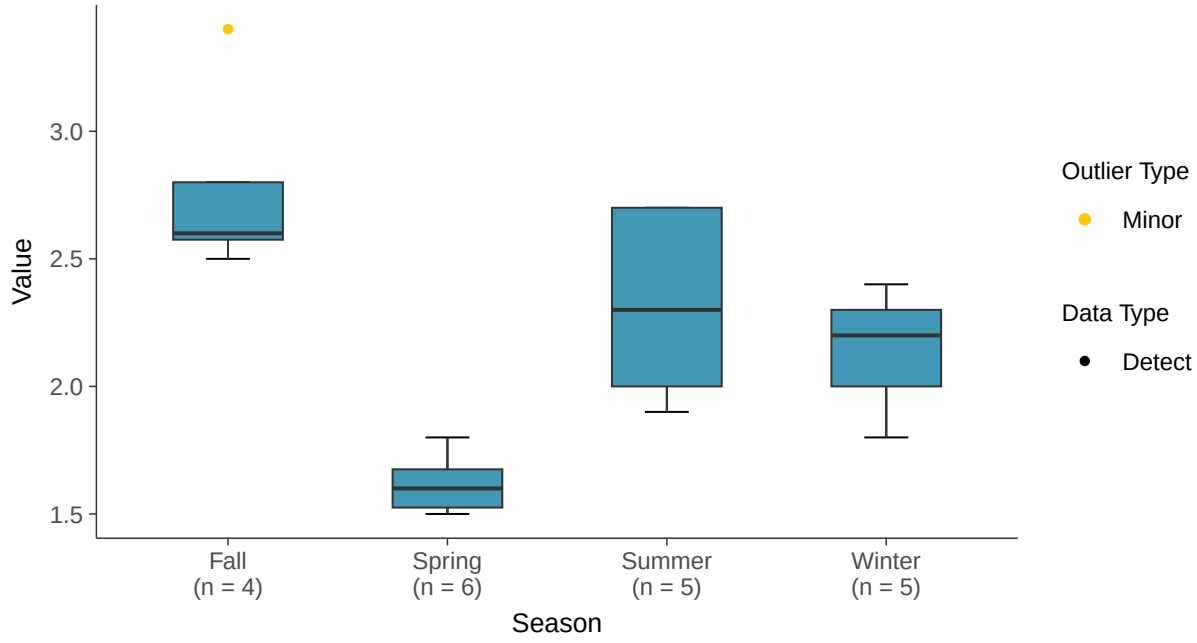
Boxplot

Boron, MW-19 (mg/L)



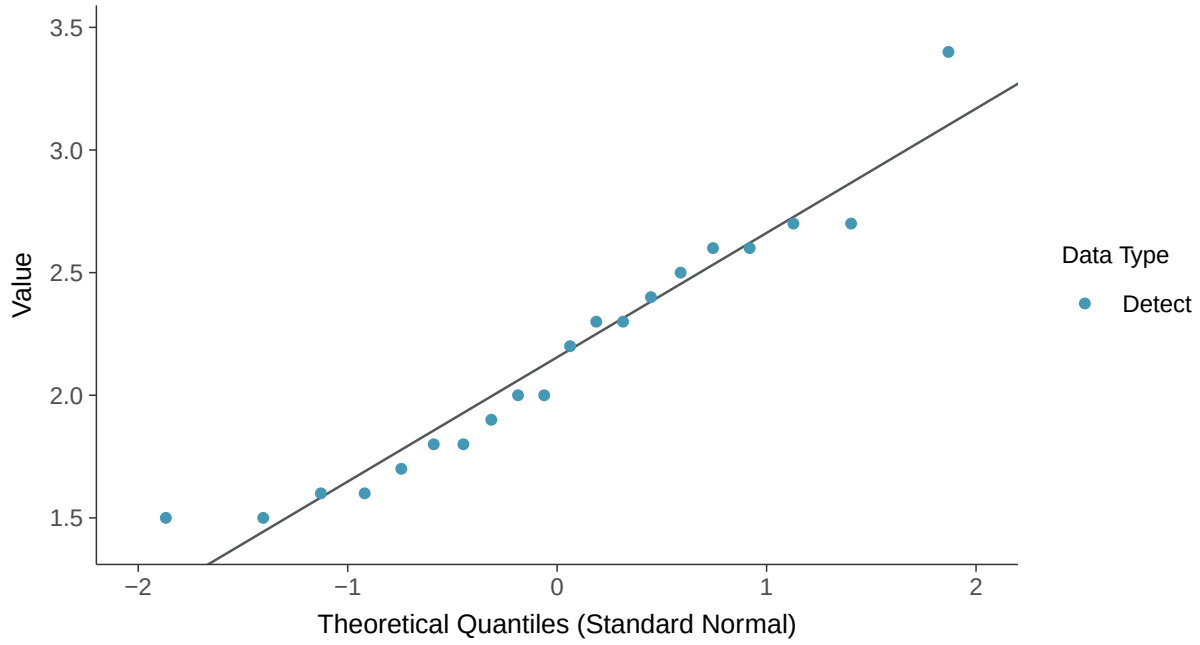
Boxplot by Season

Boron, MW-19 (mg/L)



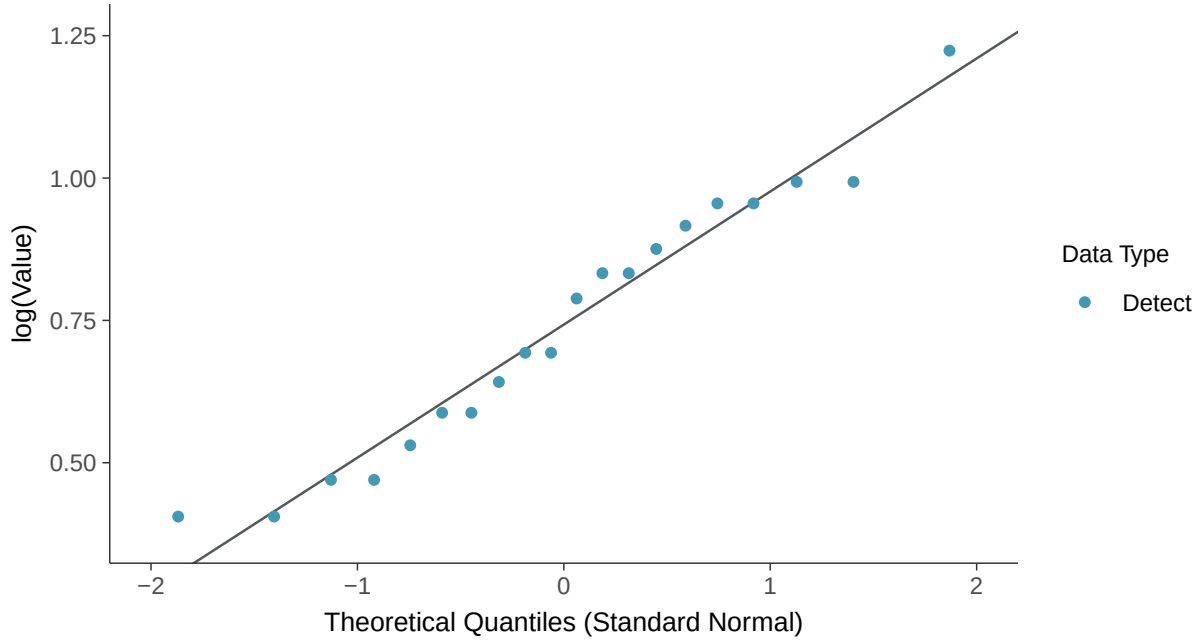
Normal Q-Q plot

Boron, MW-19 (mg/L)



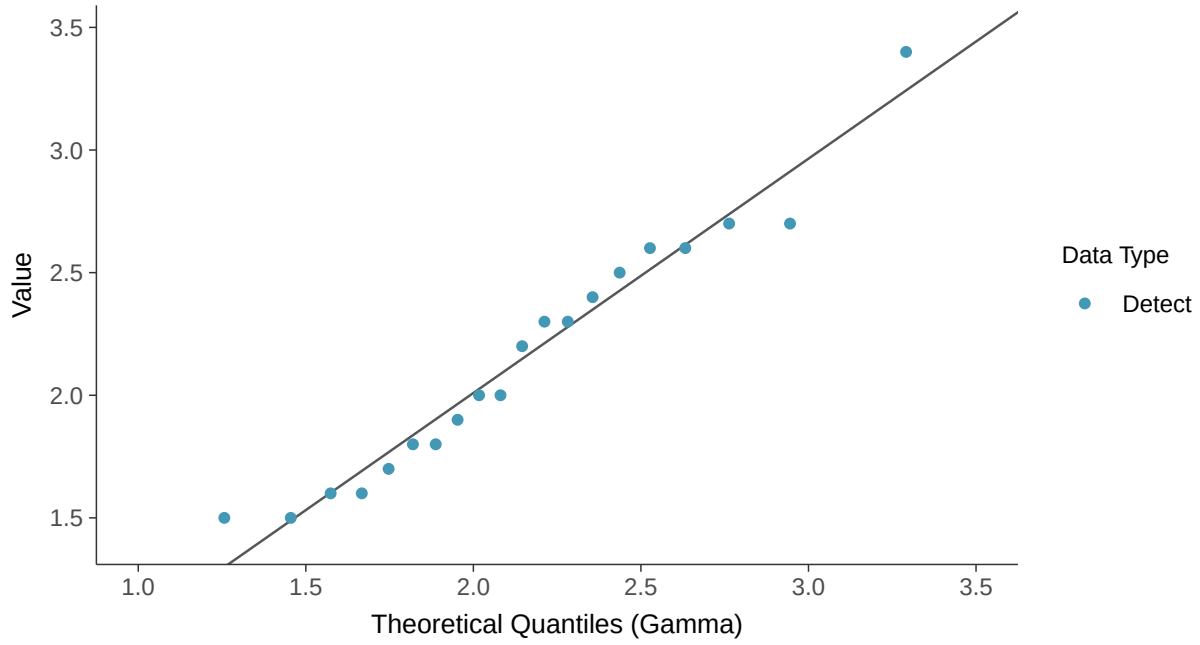
Lognormal Q-Q plot

Boron, MW-19 (mg/L)



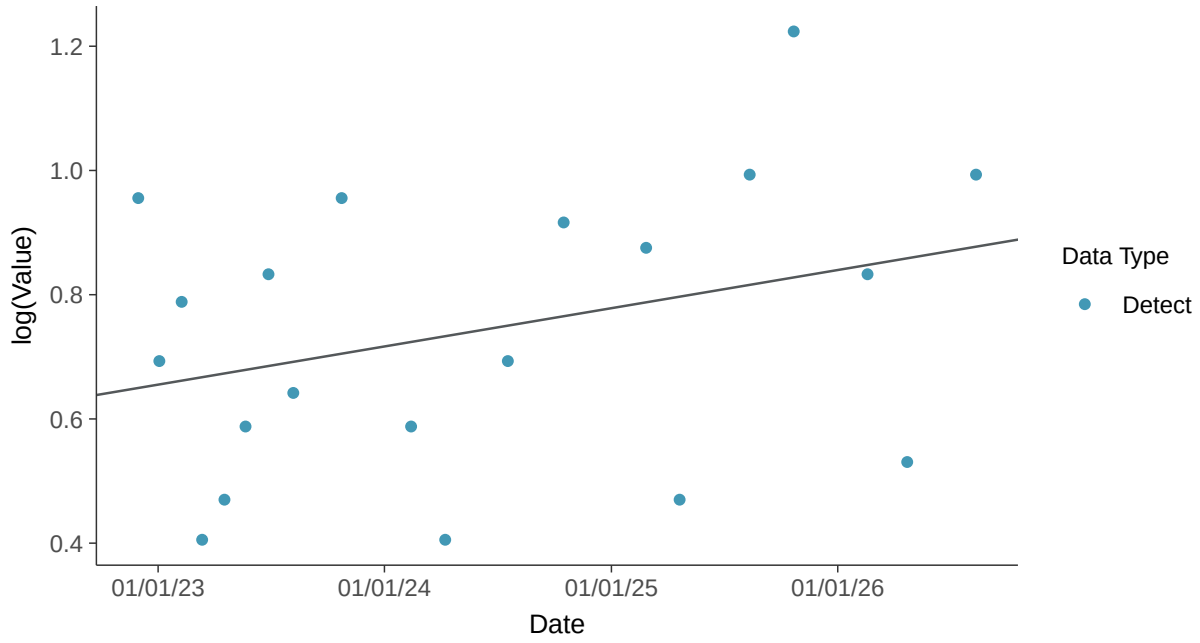
Gamma Q-Q plot

Boron, MW-19 (mg/L)



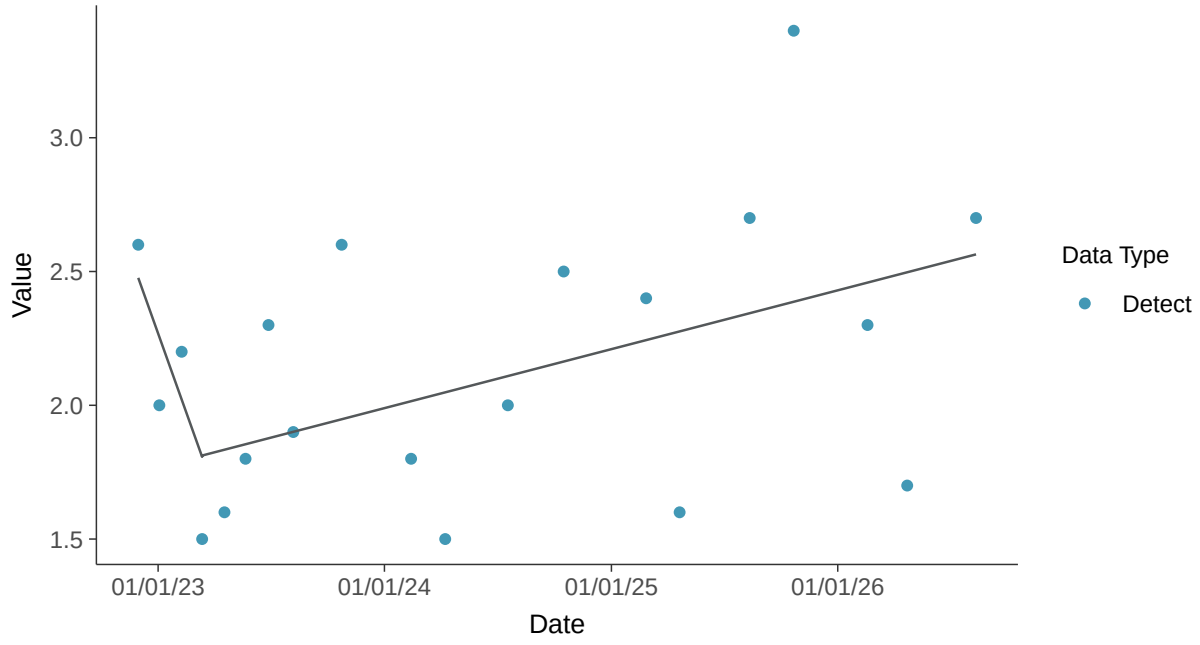
Trend Regression: Lognormal MLE

Boron, MW-19 (mg/L)



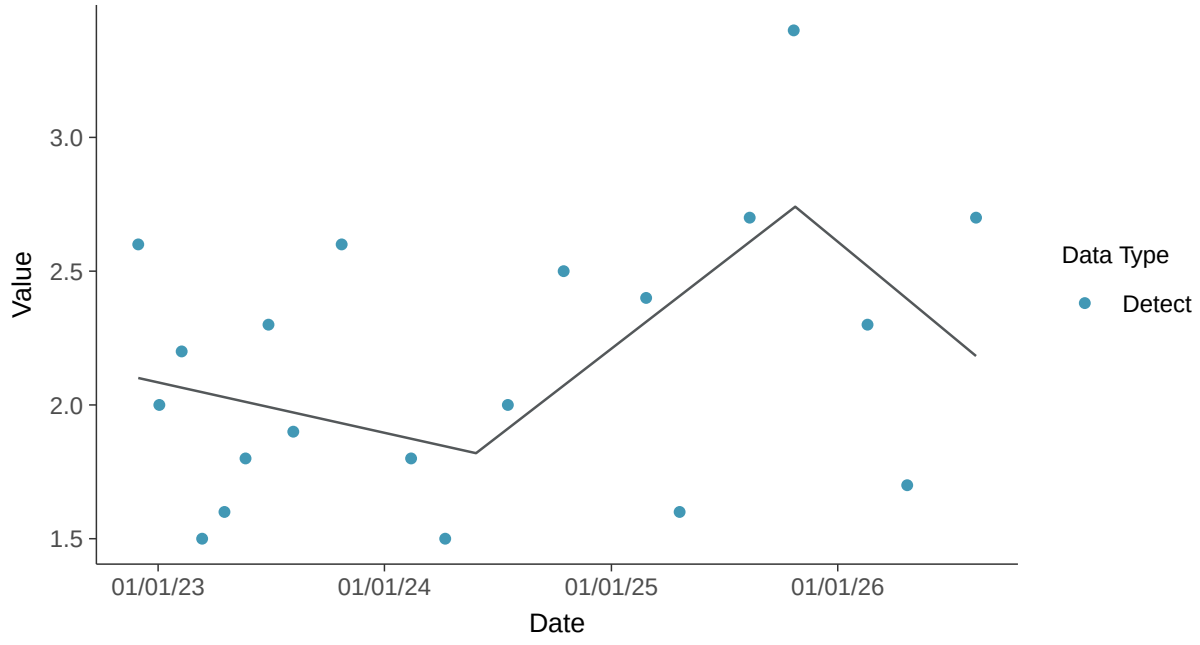
Trend Regression: Piecewise Linear-Linear

Boron, MW-19 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Boron, MW-19 (mg/L)

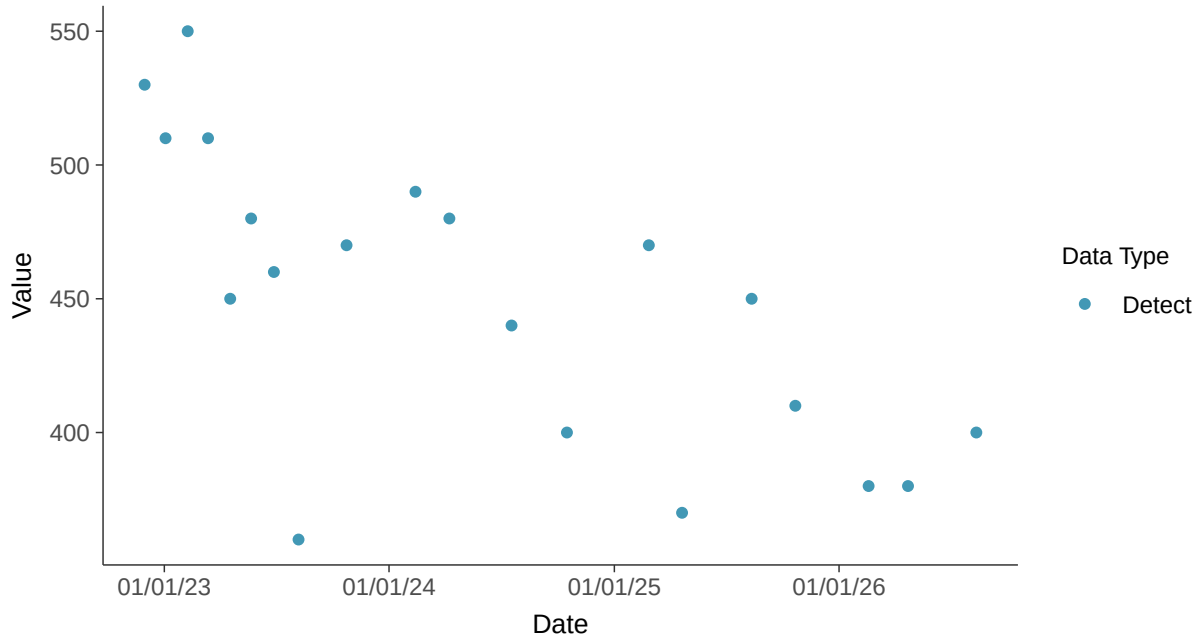


Appendix III: Calcium, MW-19

ID: 29_1_3_107

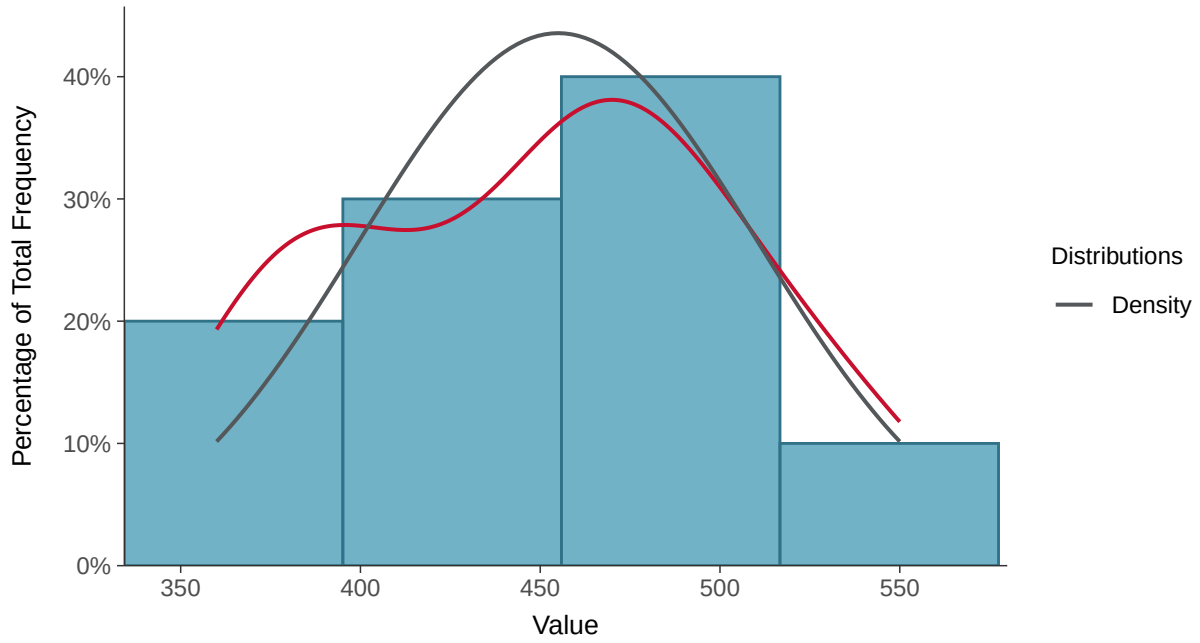
Scatter Plot

Calcium, MW-19 (mg/L)



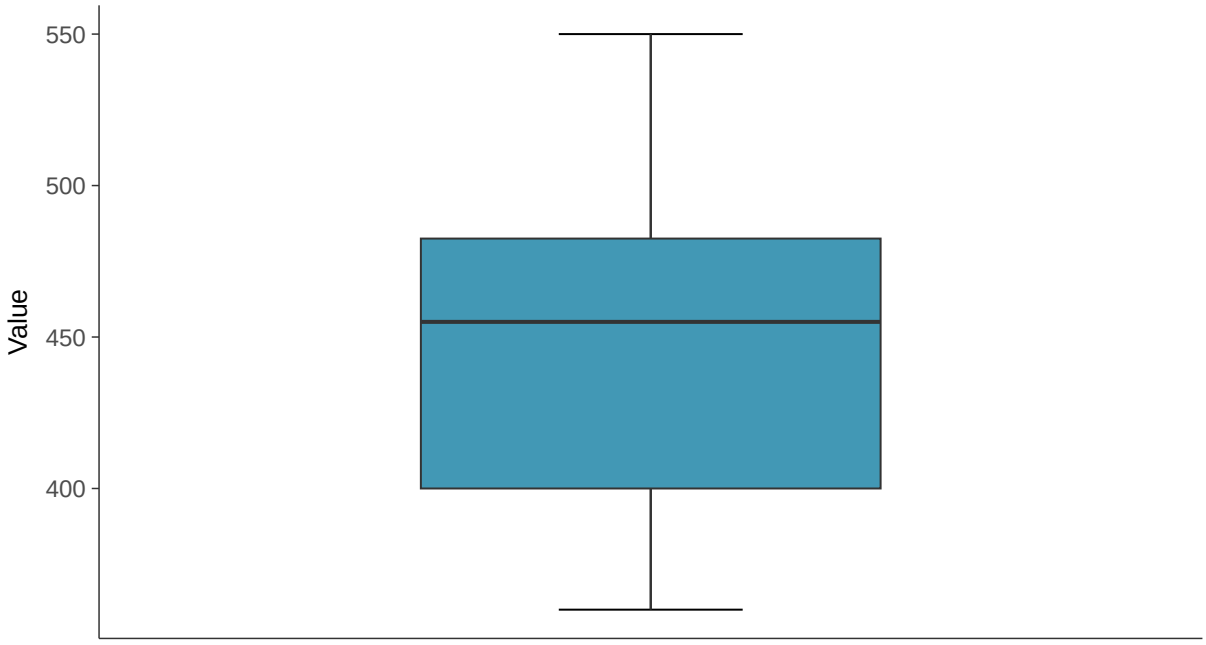
Histogram

Calcium, MW-19 (mg/L)



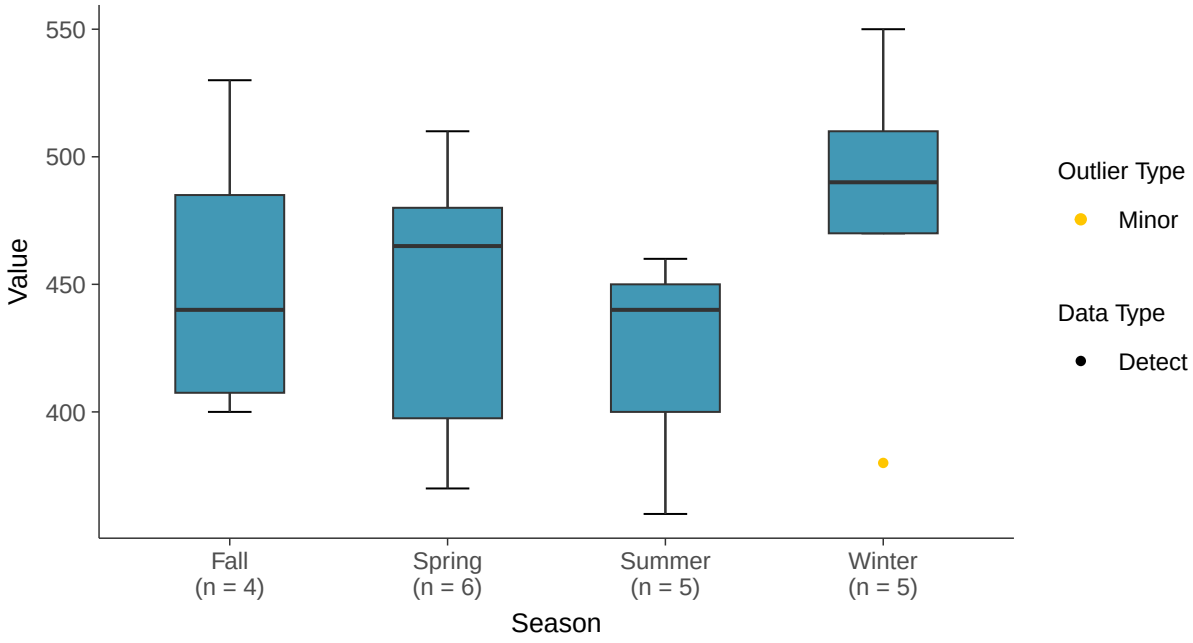
Boxplot

Calcium, MW-19 (mg/L)



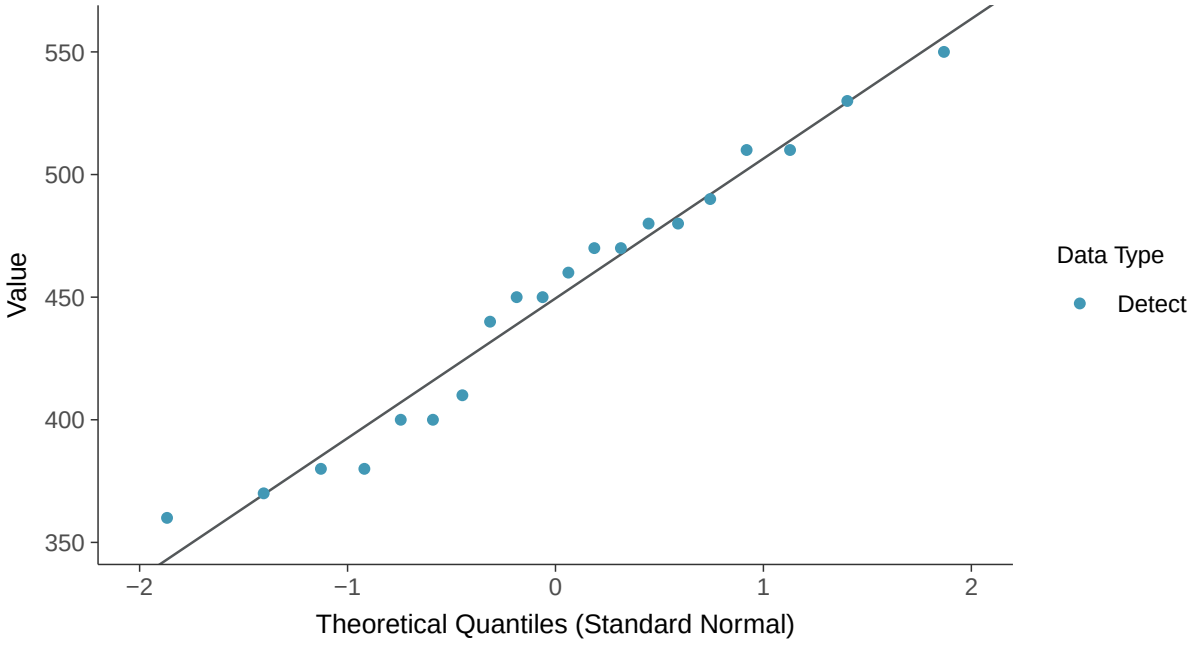
Boxplot by Season

Calcium, MW-19 (mg/L)



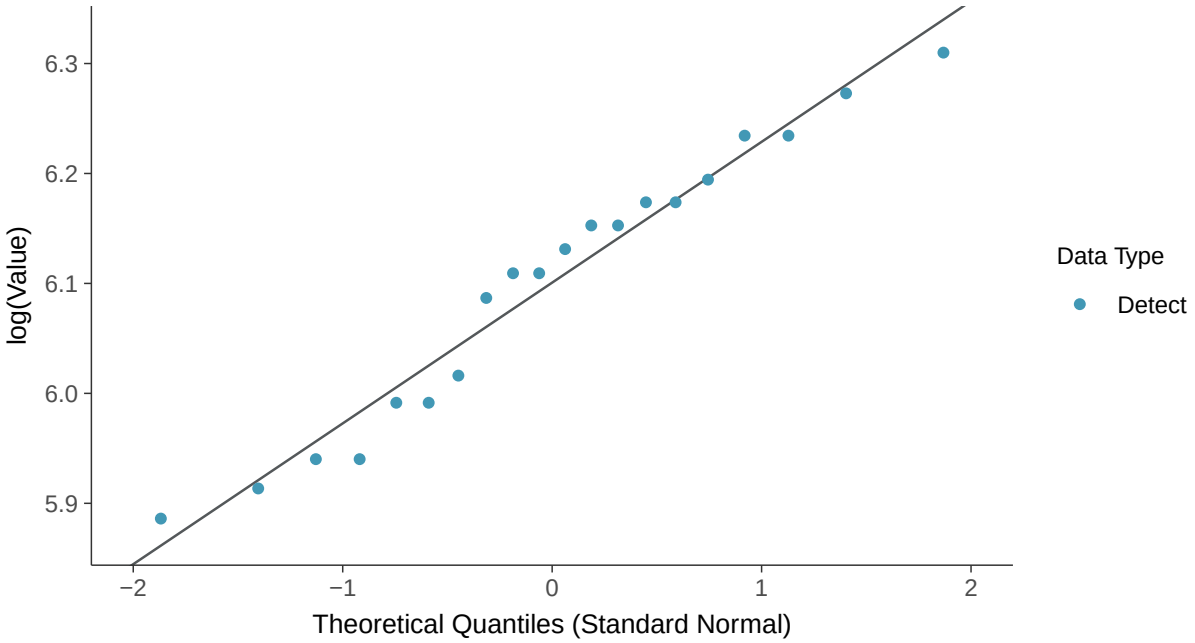
Normal Q-Q plot

Calcium, MW-19 (mg/L)



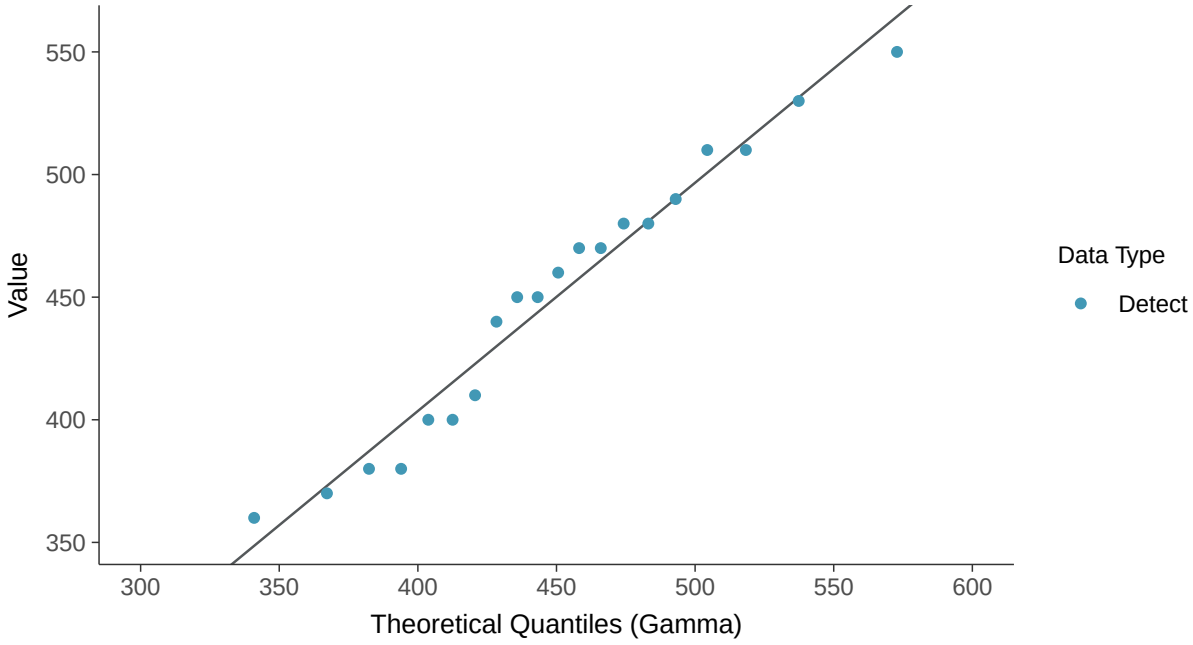
Lognormal Q-Q plot

Calcium, MW-19 (mg/L)



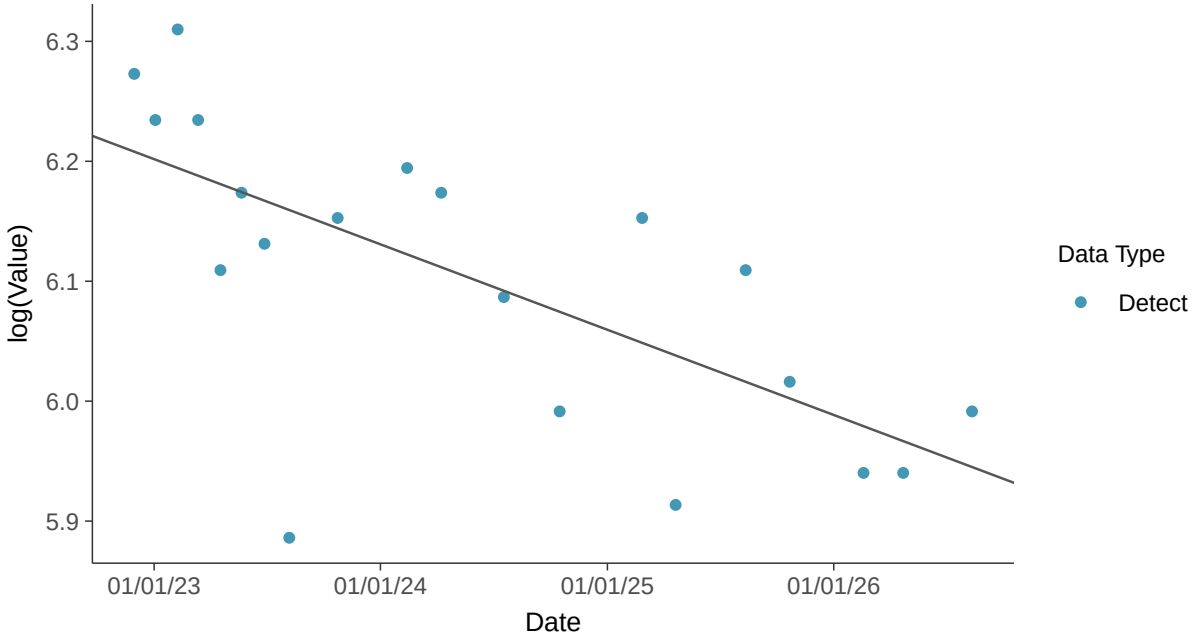
Gamma Q-Q plot

Calcium, MW-19 (mg/L)



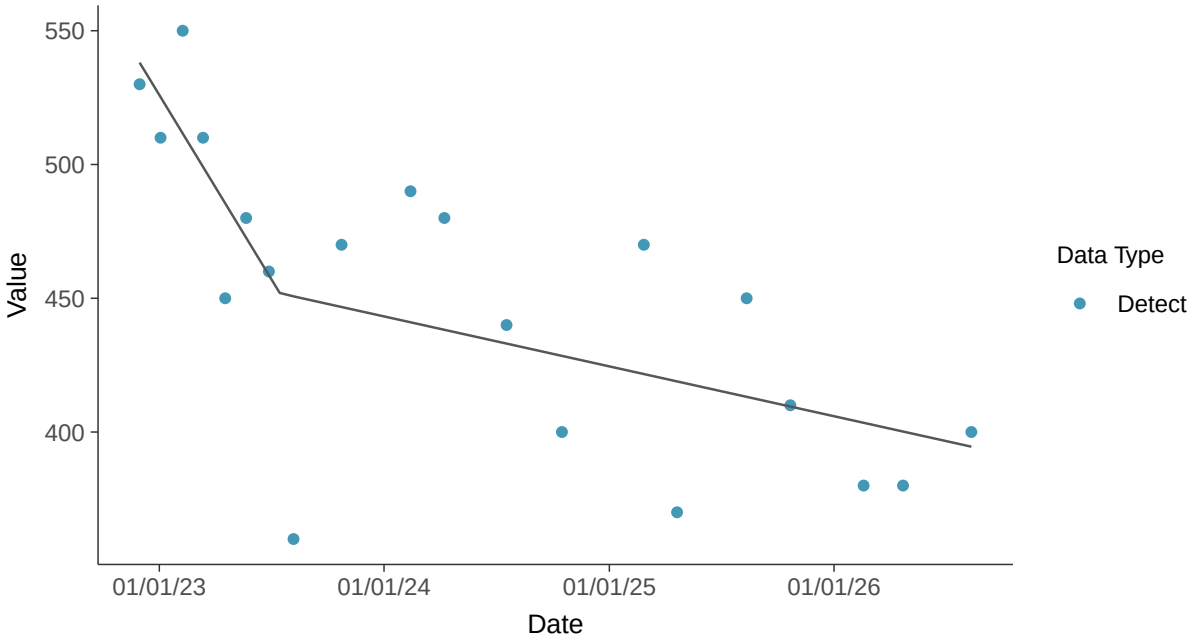
Trend Regression: Lognormal MLE

Calcium, MW-19 (mg/L)



Trend Regression: Piecewise Linear-Linear

Calcium, MW-19 (mg/L)

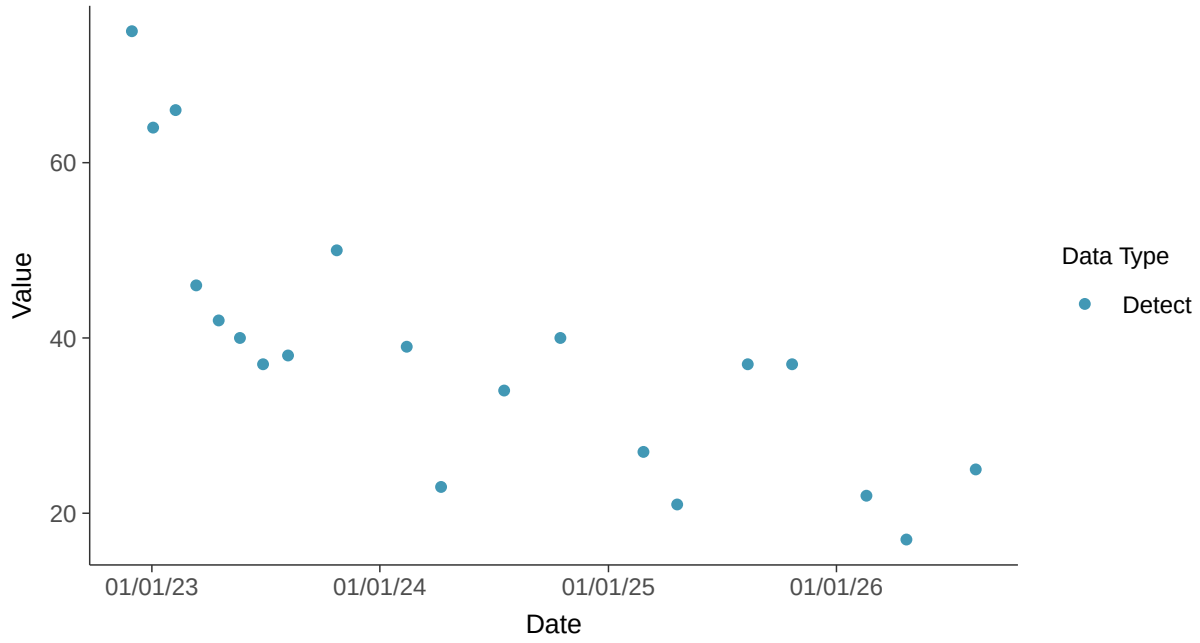


Appendix III: Chloride (as Cl), MW-19

ID: 29_1_3_108

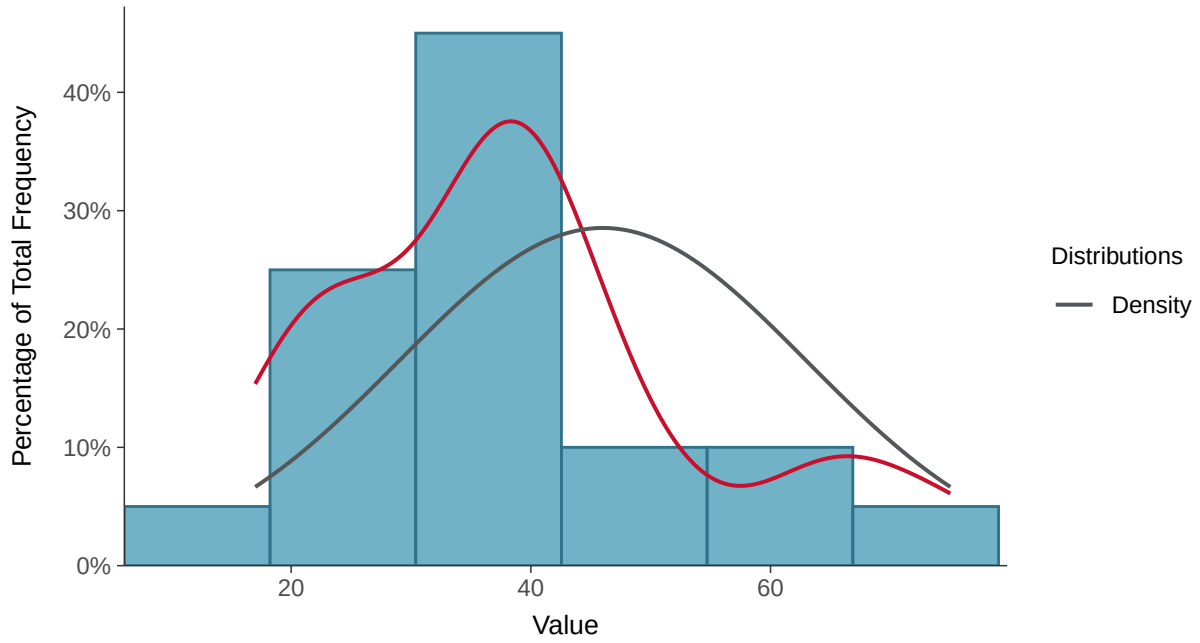
Scatter Plot

Chloride (as Cl), MW-19 (mg/L)



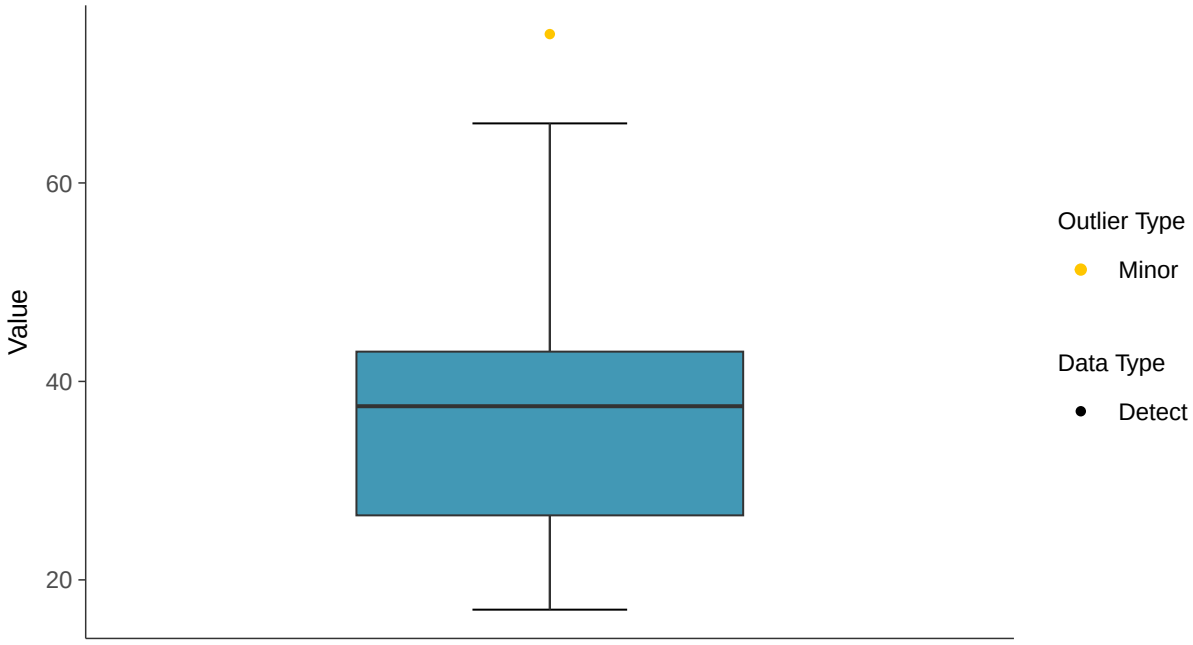
Histogram

Chloride (as Cl), MW-19 (mg/L)



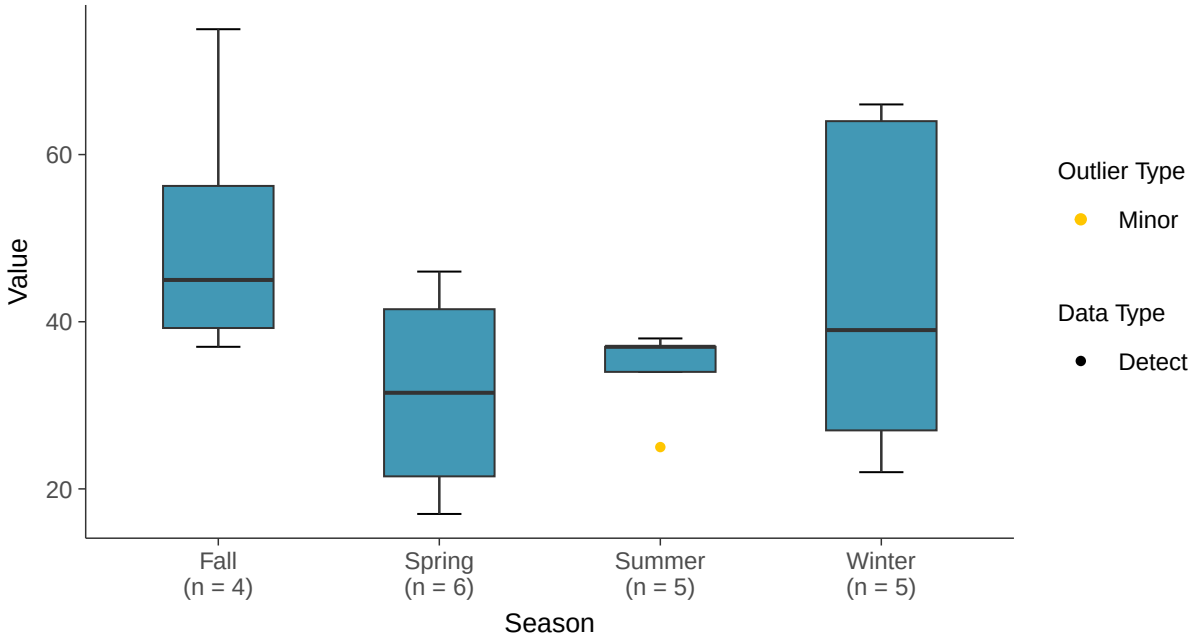
Boxplot

Chloride (as Cl), MW-19 (mg/L)



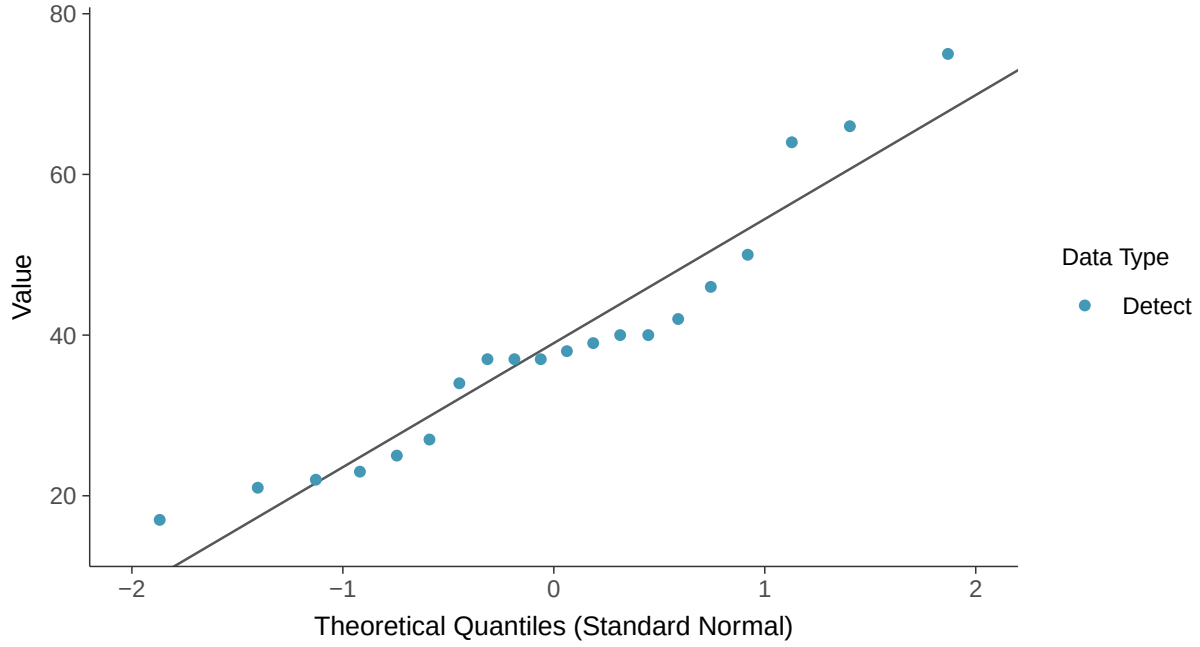
Boxplot by Season

Chloride (as Cl), MW-19 (mg/L)



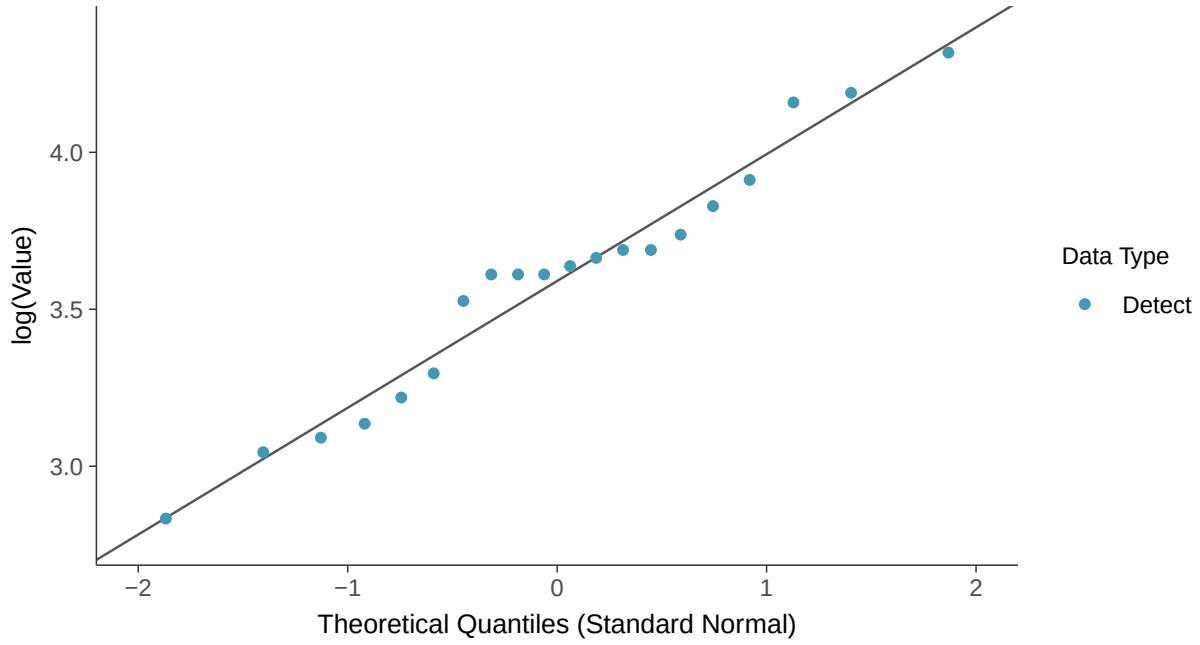
Normal Q-Q plot

Chloride (as Cl), MW-19 (mg/L)



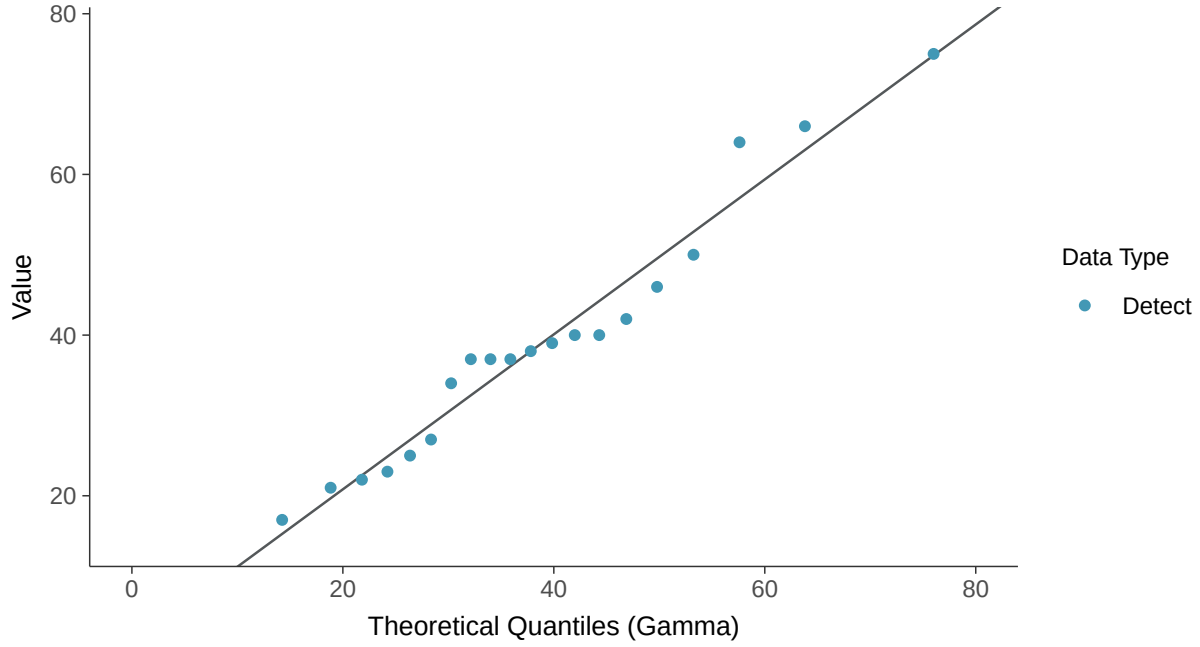
Lognormal Q-Q plot

Chloride (as Cl), MW-19 (mg/L)



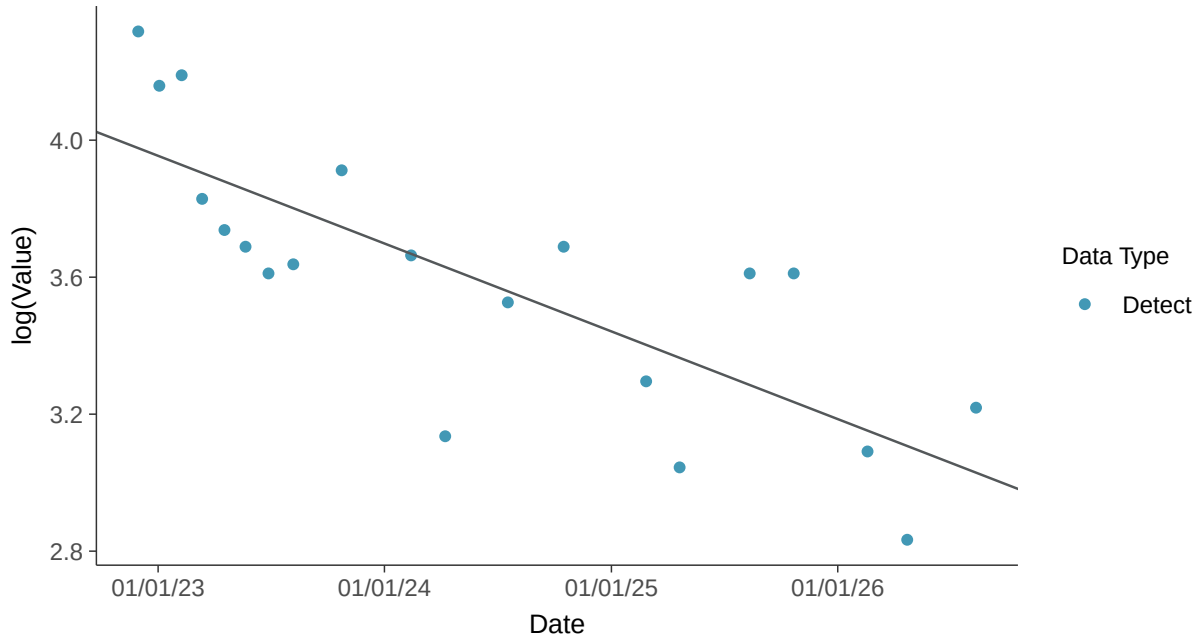
Gamma Q-Q plot

Chloride (as Cl), MW-19 (mg/L)



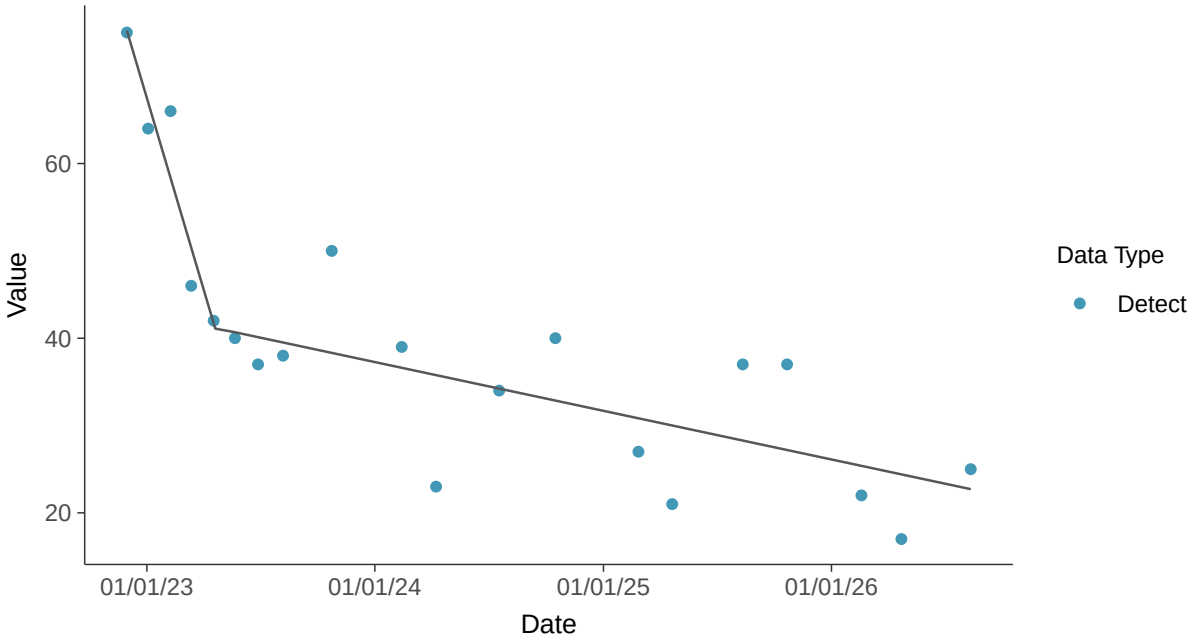
Trend Regression: Lognormal MLE

Chloride (as Cl), MW-19 (mg/L)



Trend Regression: Piecewise Linear-Linear

Chloride (as Cl), MW-19 (mg/L)

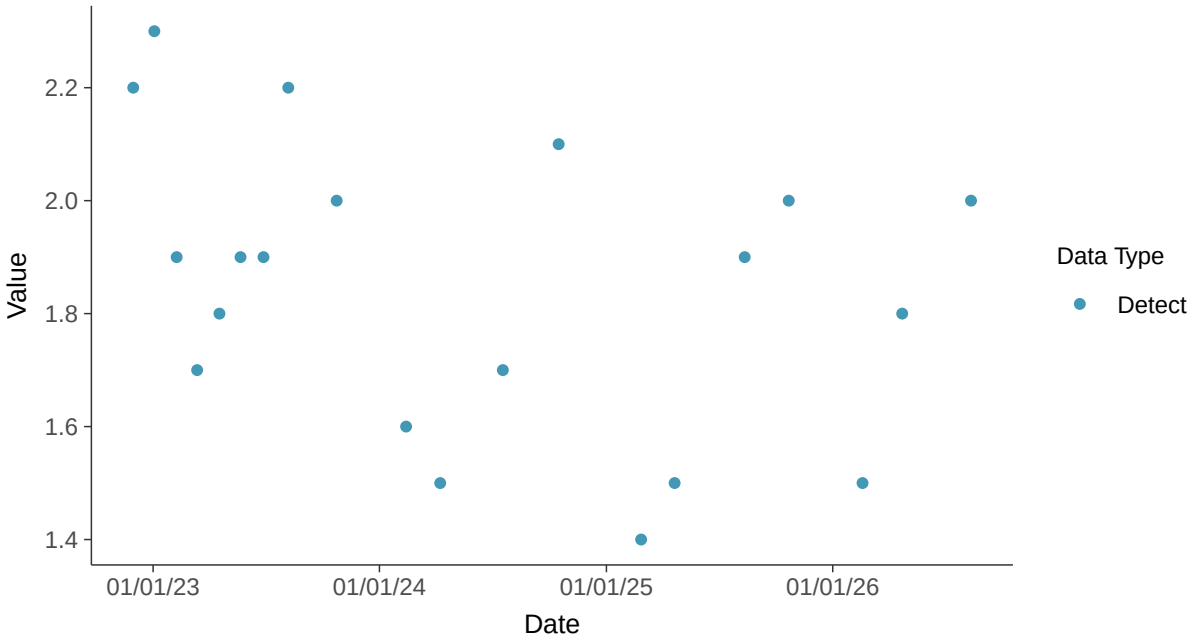


Appendix III: Fluoride, MW-19

ID: 29_1_3_112

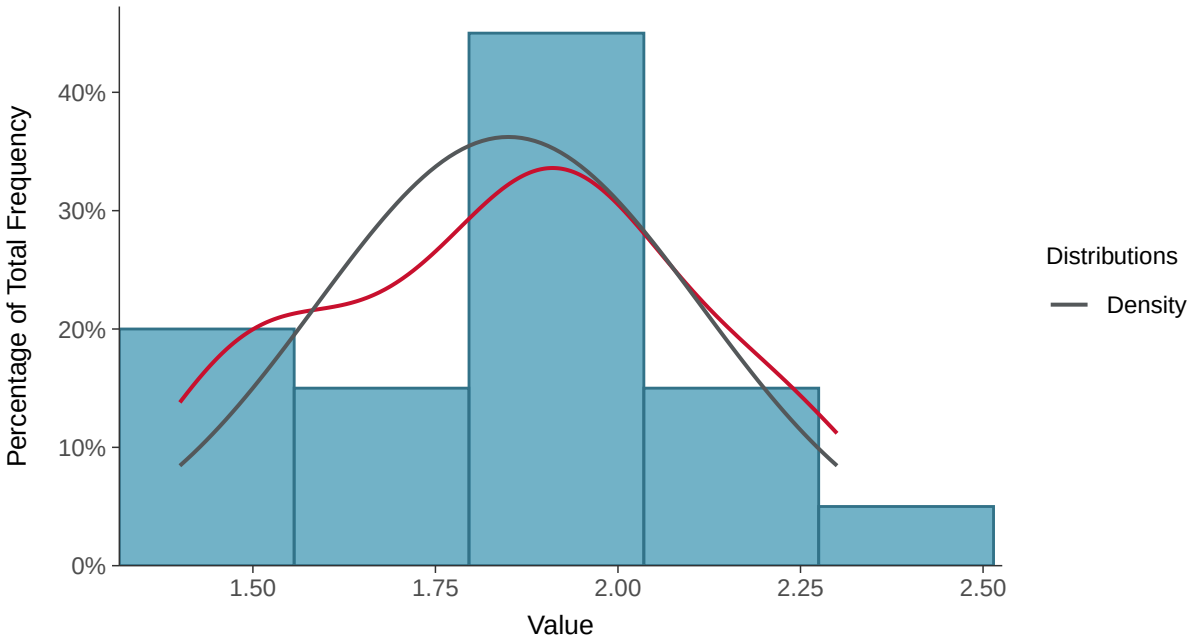
Scatter Plot

Fluoride, MW-19 (mg/L)



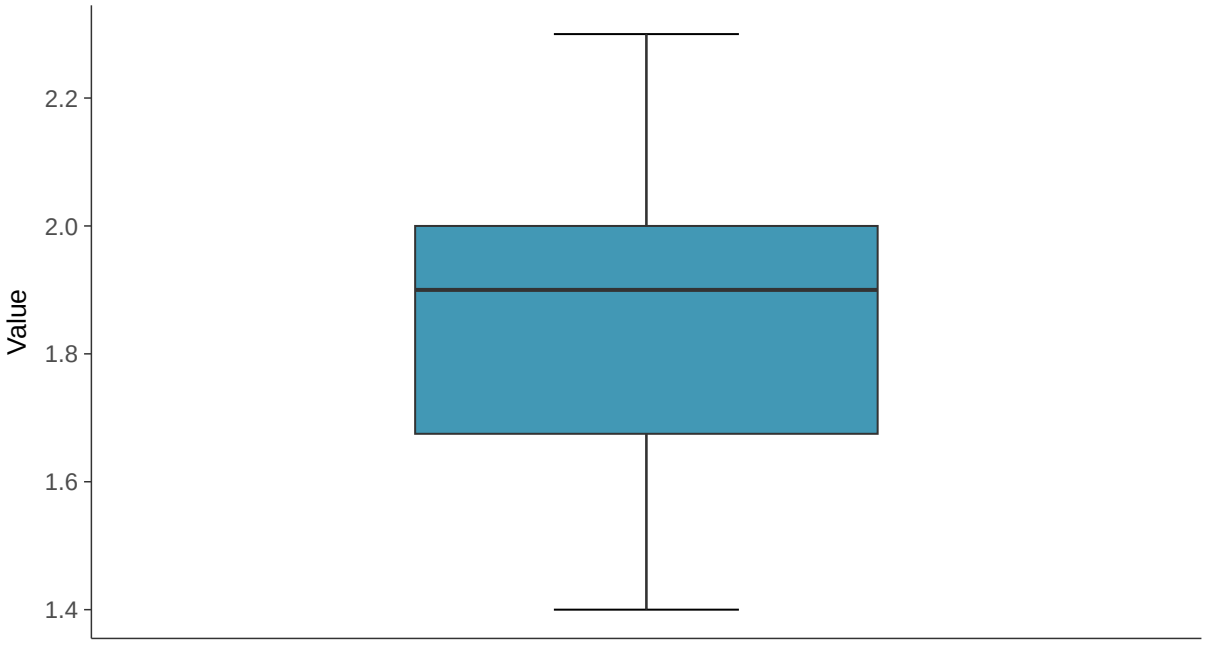
Histogram

Fluoride, MW-19 (mg/L)



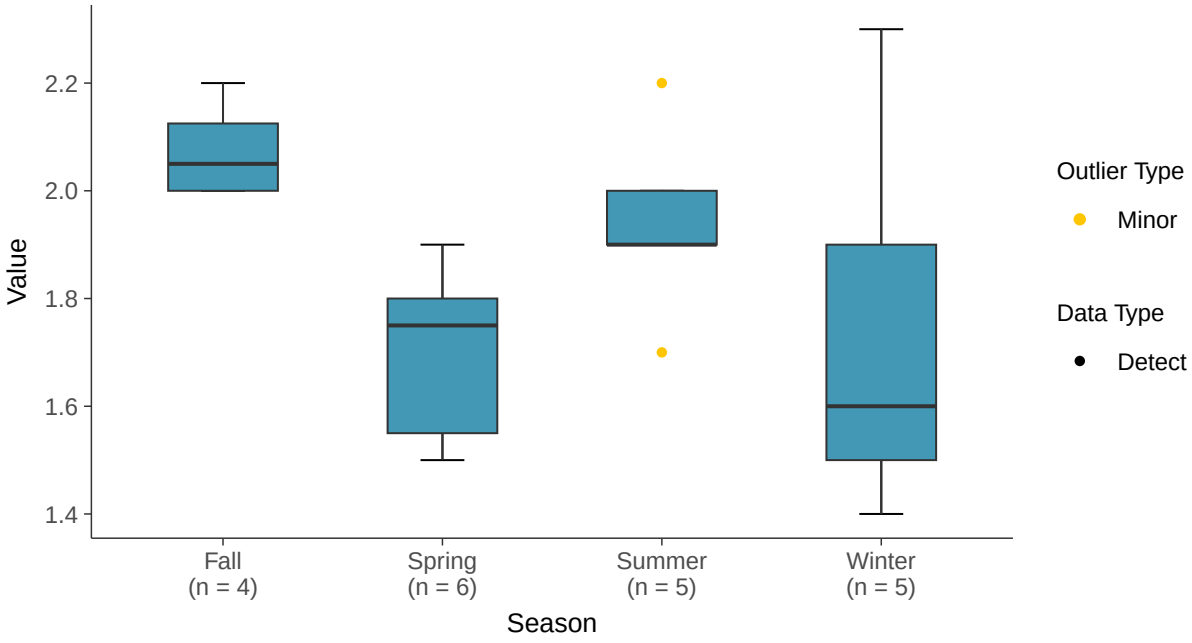
Boxplot

Fluoride, MW-19 (mg/L)



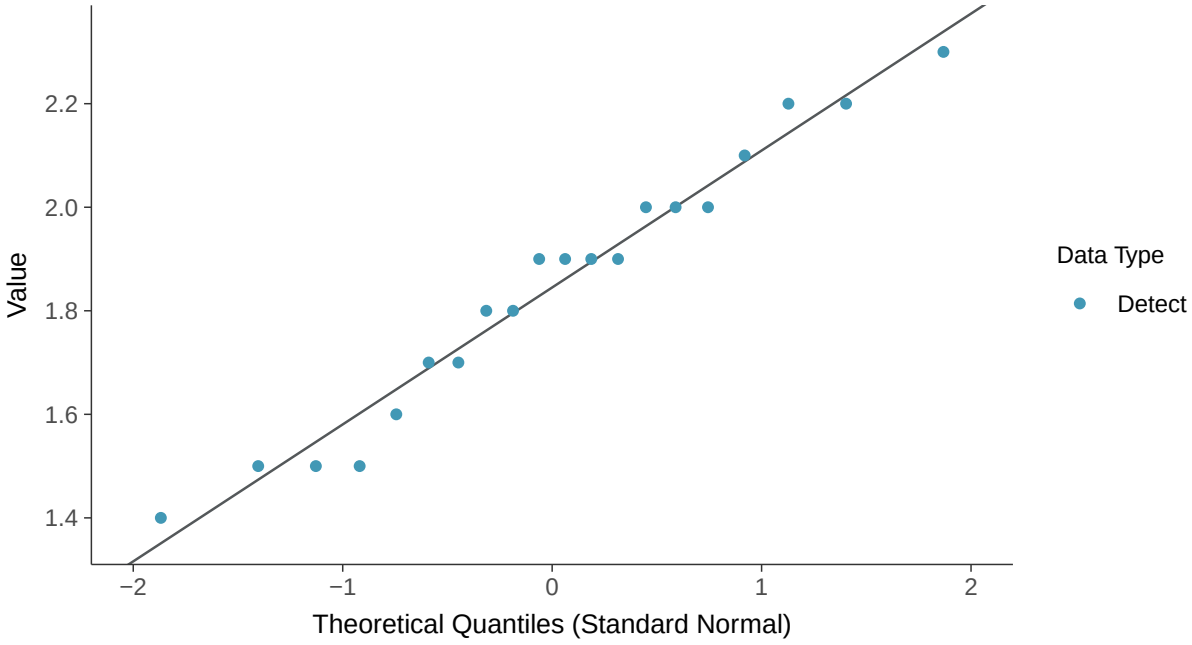
Boxplot by Season

Fluoride, MW-19 (mg/L)



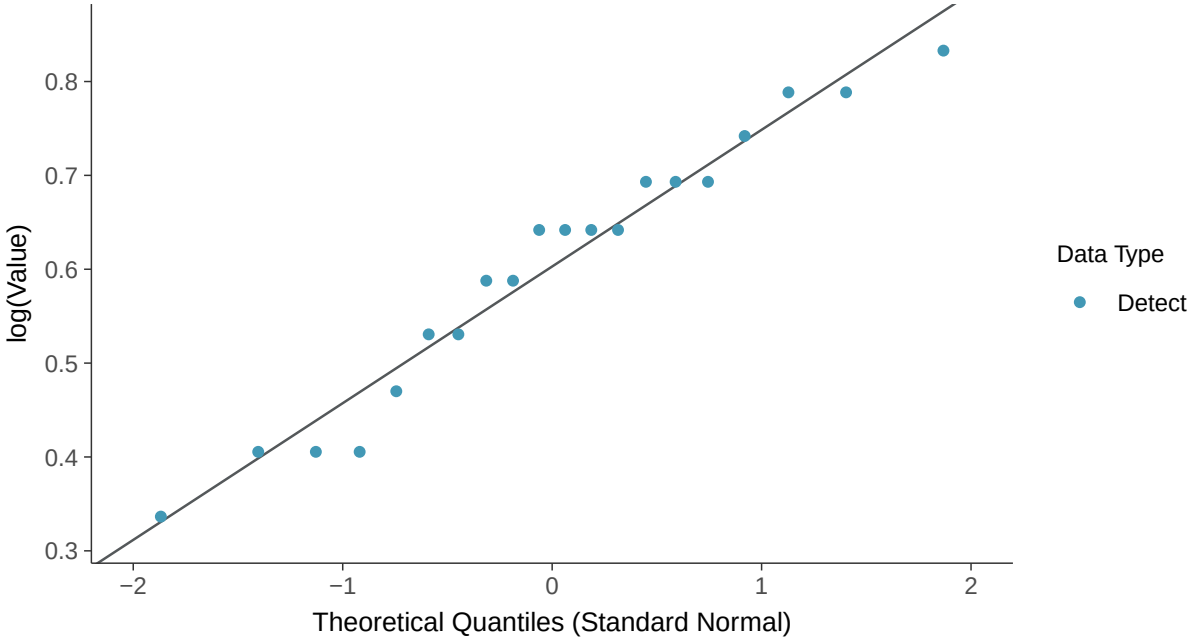
Normal Q-Q plot

Fluoride, MW-19 (mg/L)



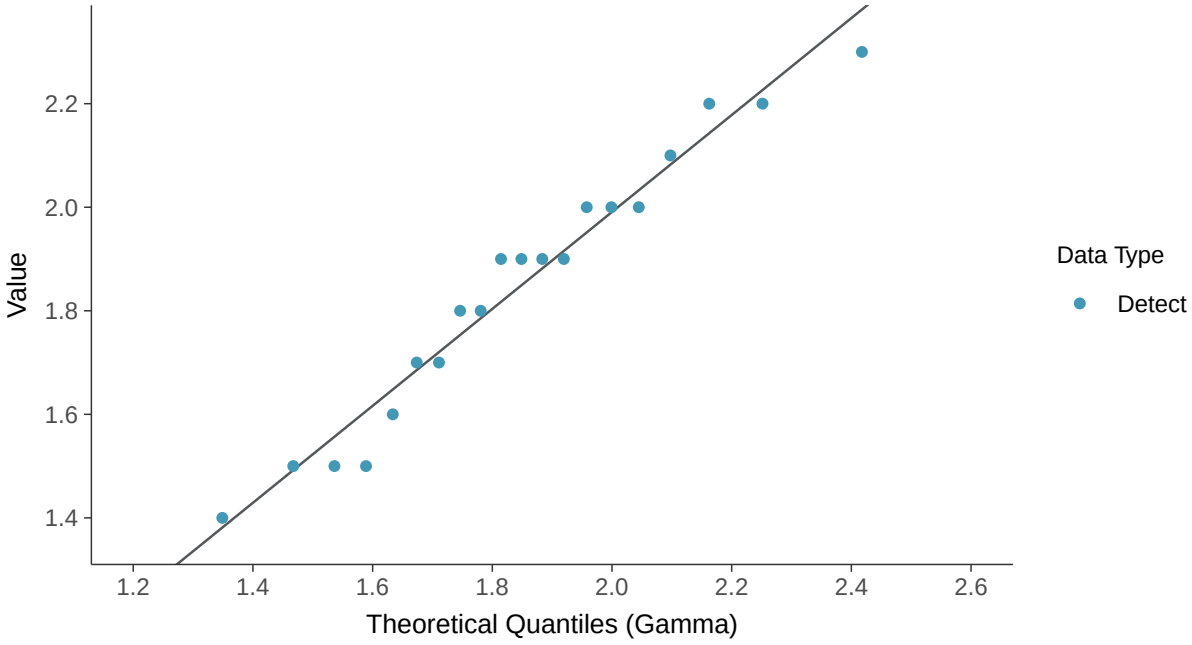
Lognormal Q-Q plot

Fluoride, MW-19 (mg/L)



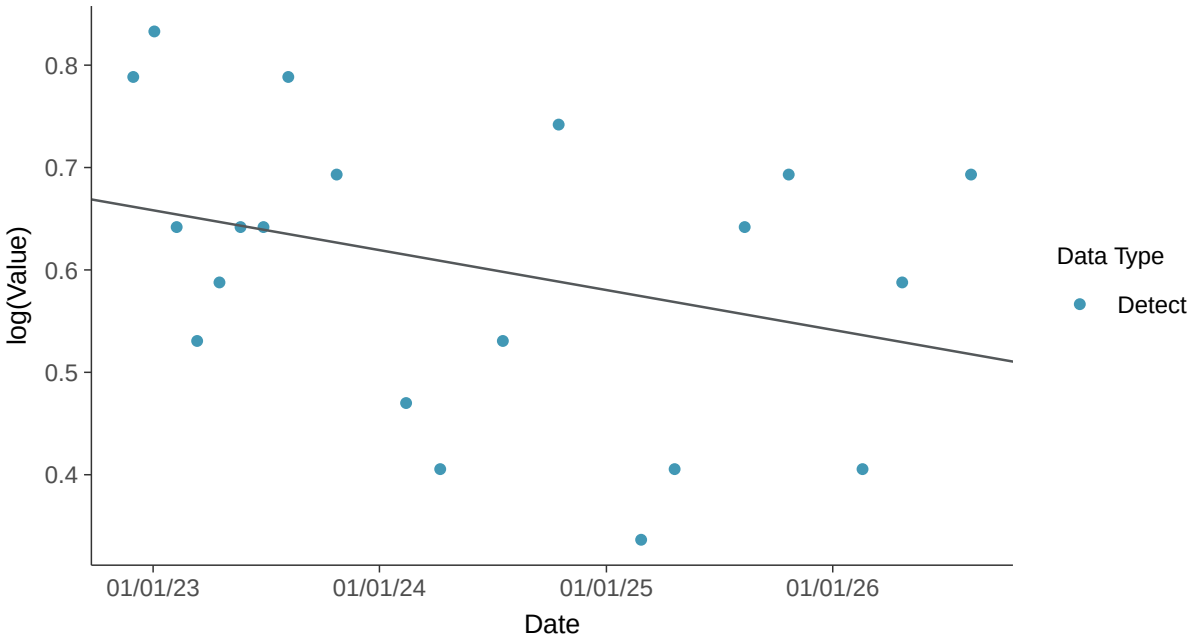
Gamma Q-Q plot

Fluoride, MW-19 (mg/L)



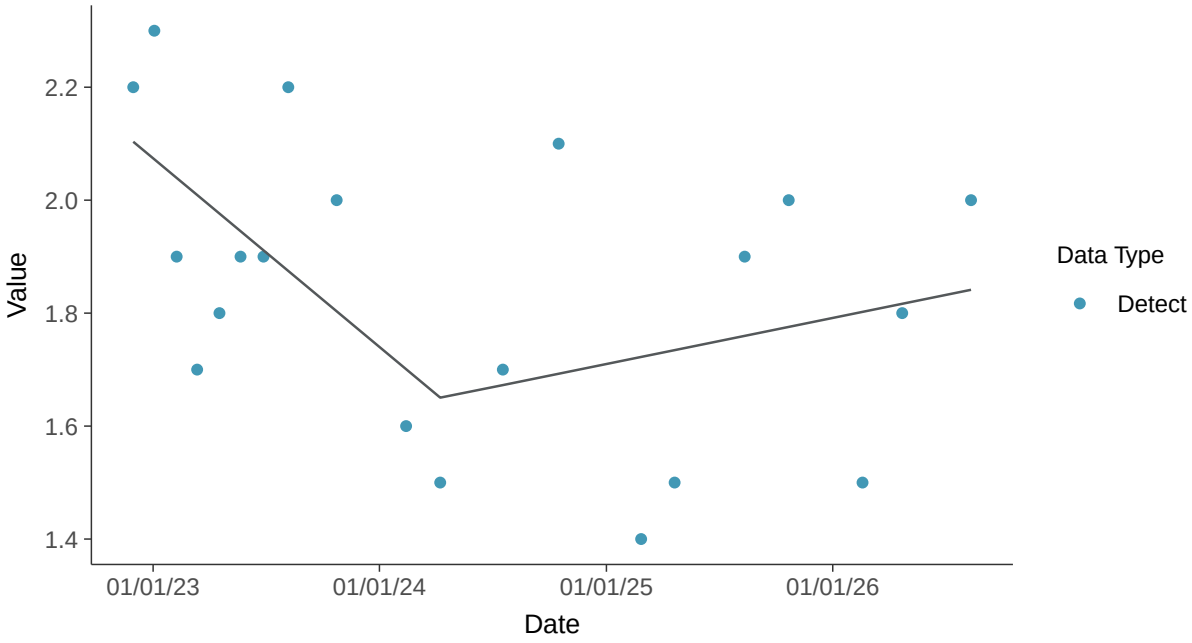
Trend Regression: Lognormal MLE

Fluoride, MW-19 (mg/L)



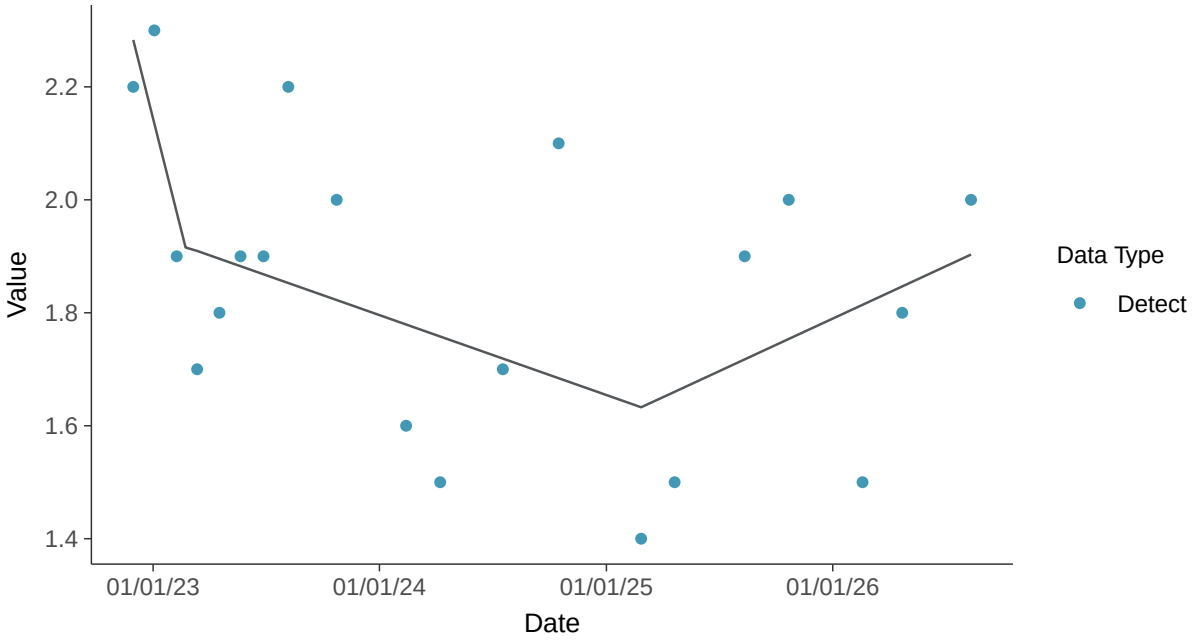
Trend Regression: Piecewise Linear-Linear

Fluoride, MW-19 (mg/L)



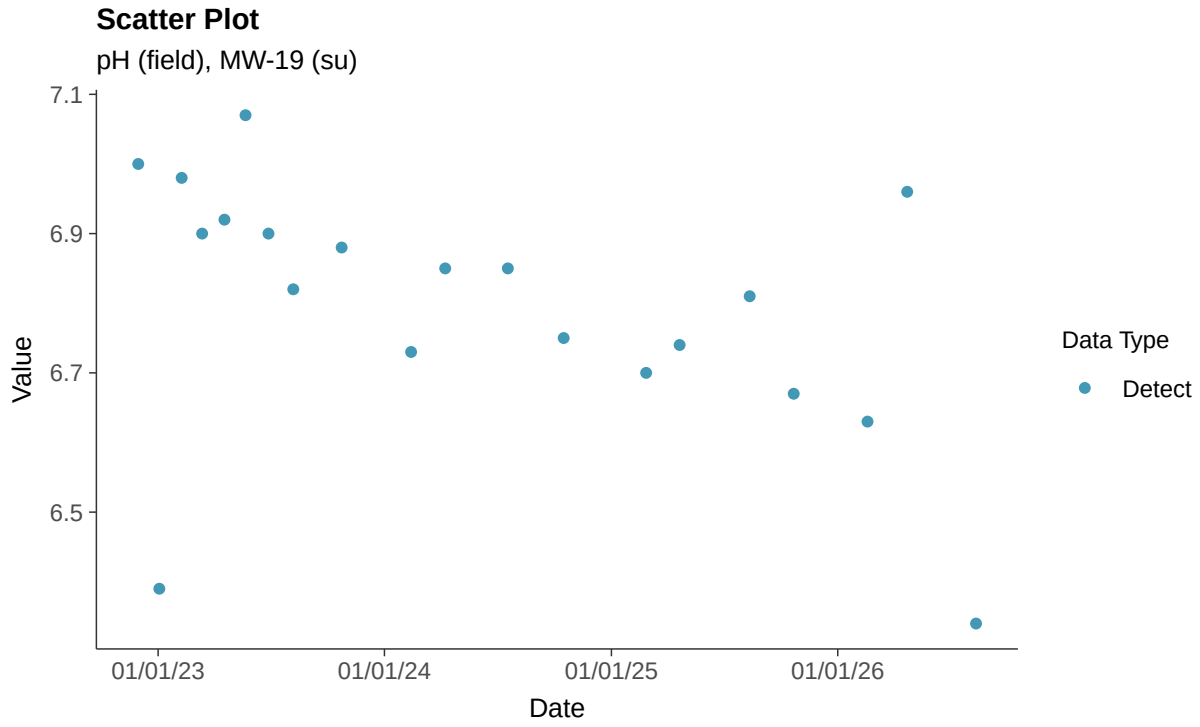
Trend Regression: Piecewise Linear-Linear-Linear

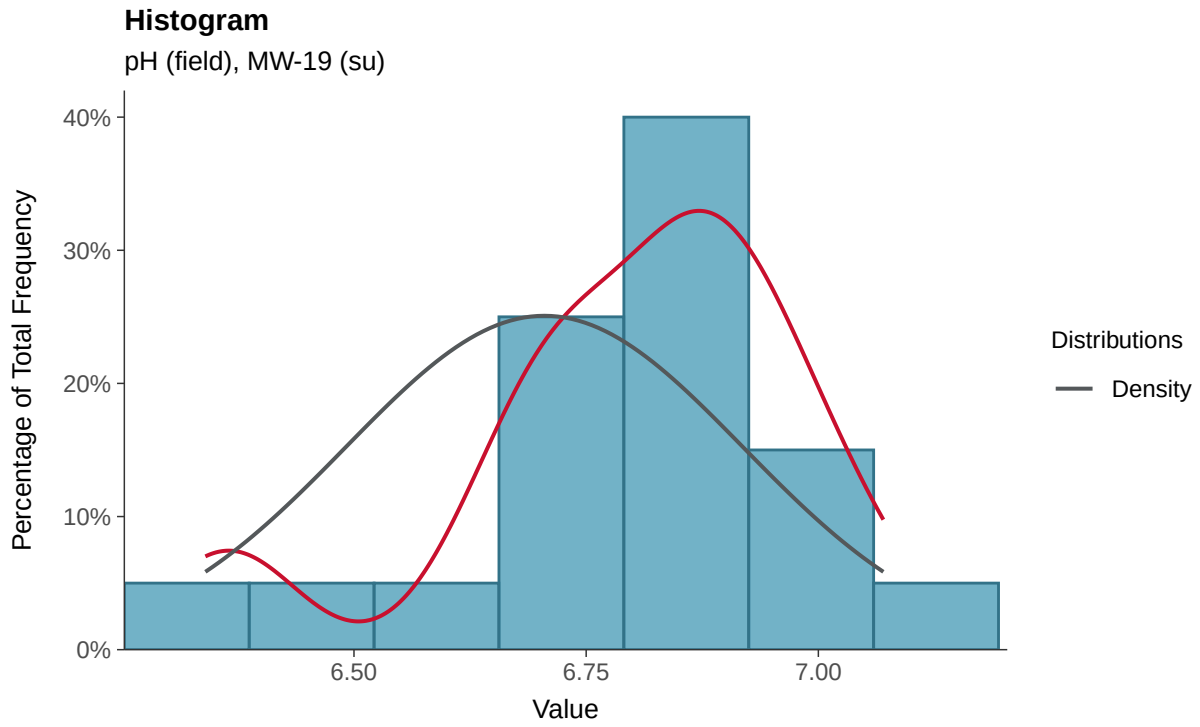
Fluoride, MW-19 (mg/L)



Appendix III: pH (field), MW-19

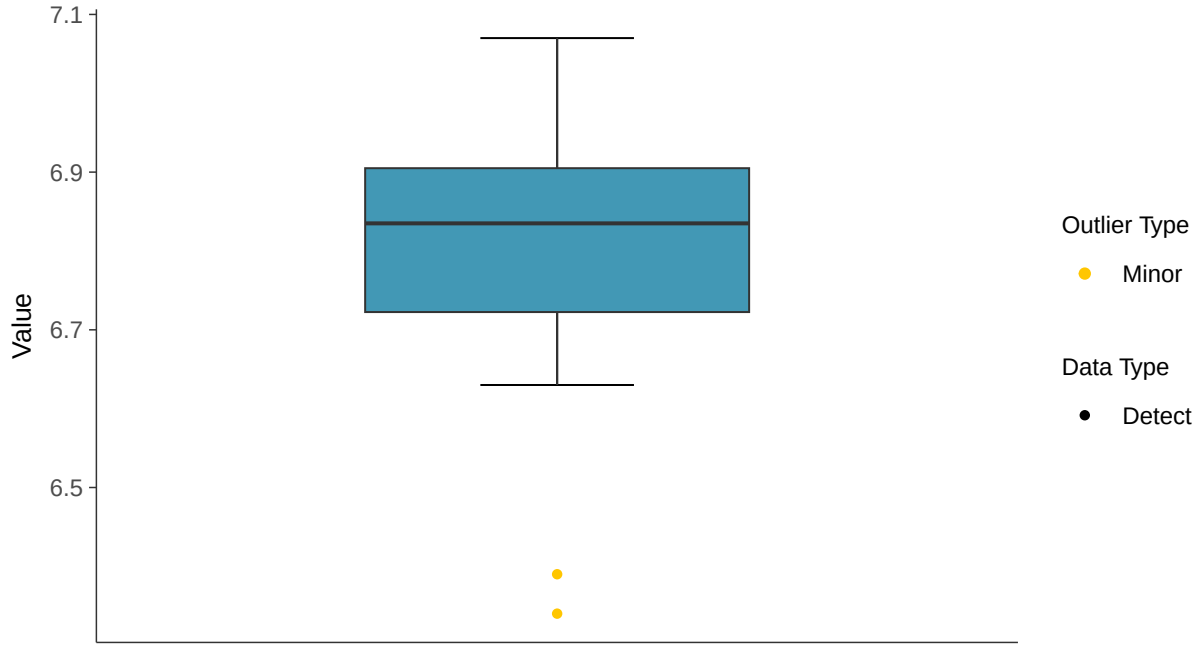
ID: 29_1_3_120





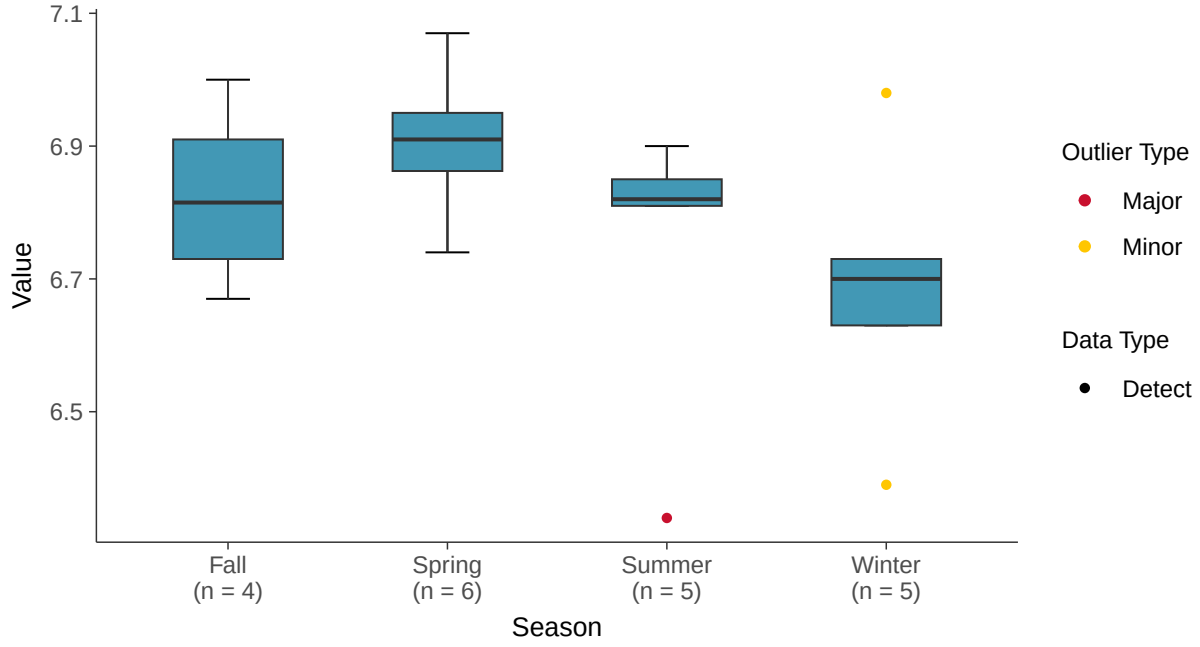
Boxplot

pH (field), MW-19 (su)



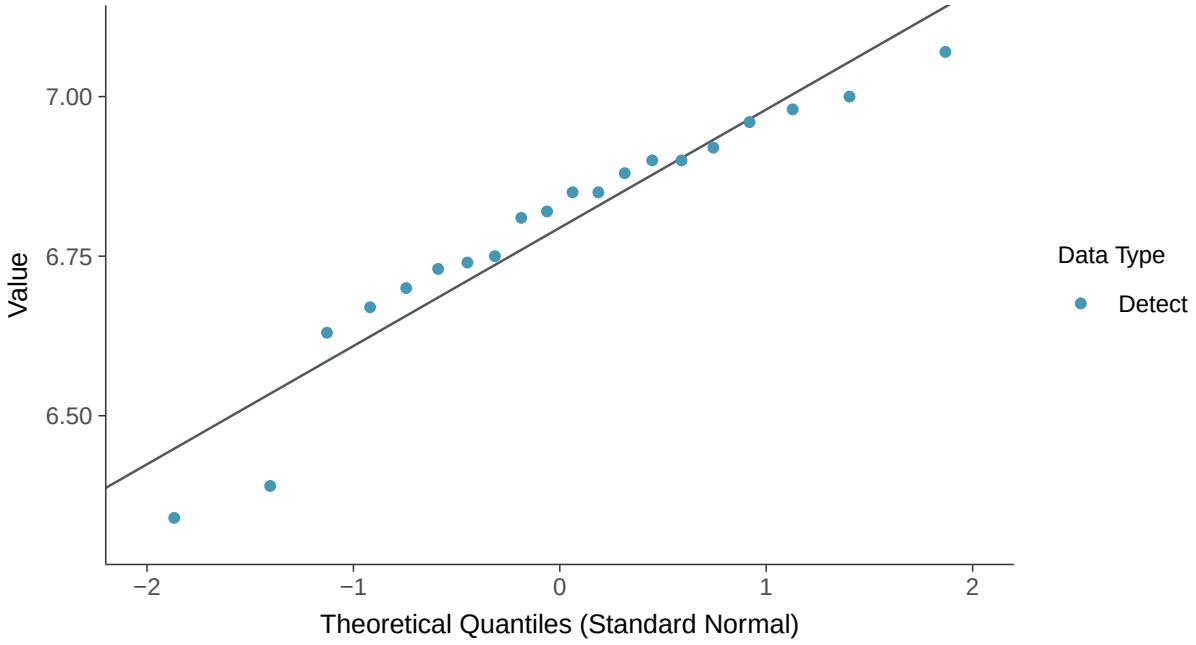
Boxplot by Season

pH (field), MW-19 (su)



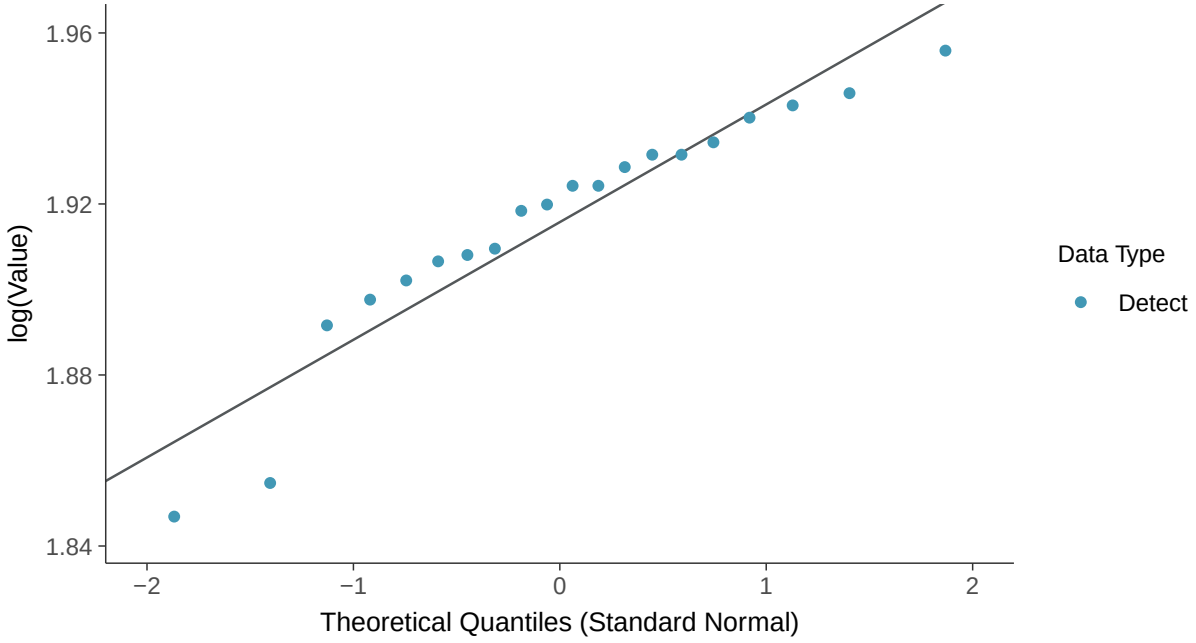
Normal Q-Q plot

pH (field), MW-19 (su)



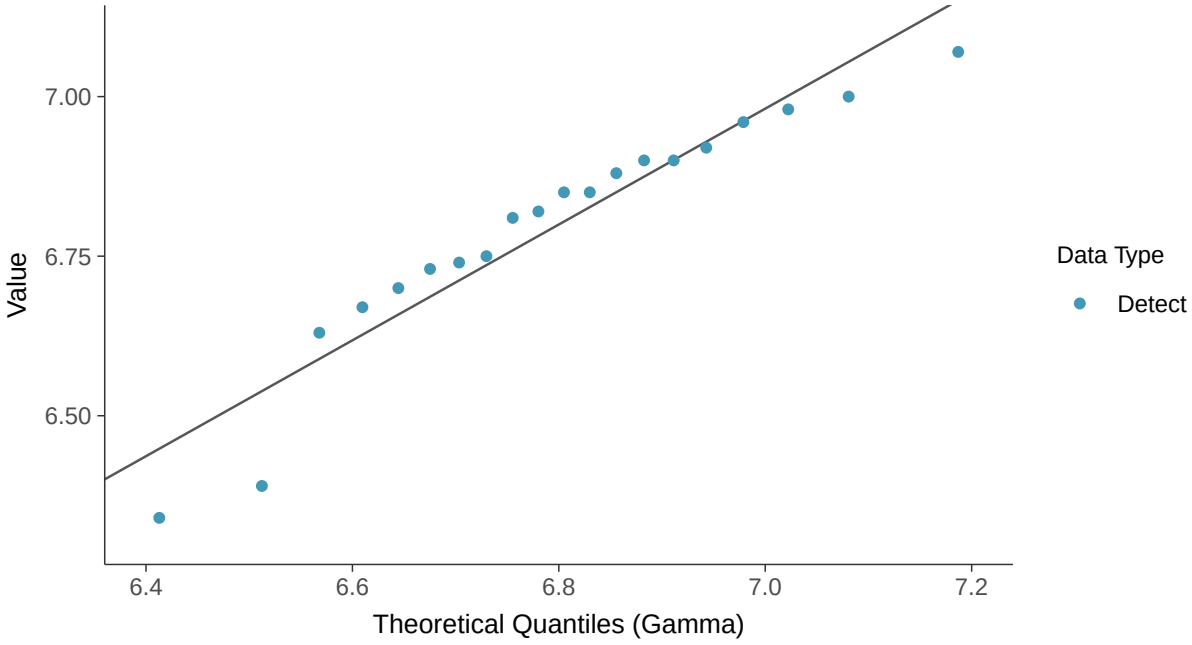
Lognormal Q-Q plot

pH (field), MW-19 (su)



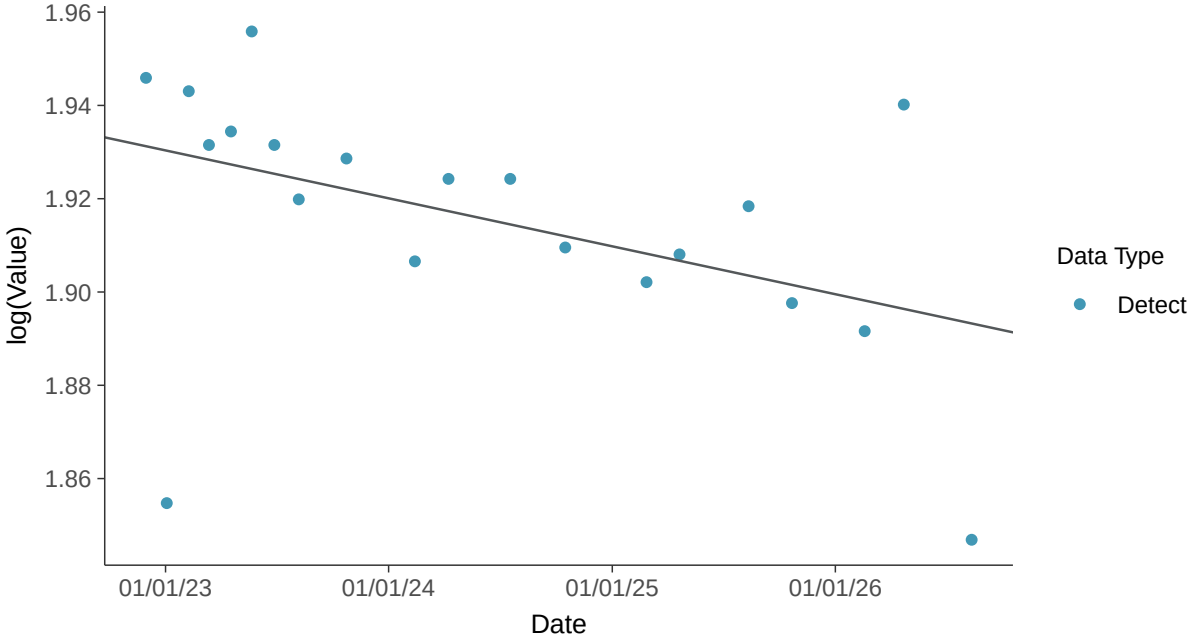
Gamma Q-Q plot

pH (field), MW-19 (su)



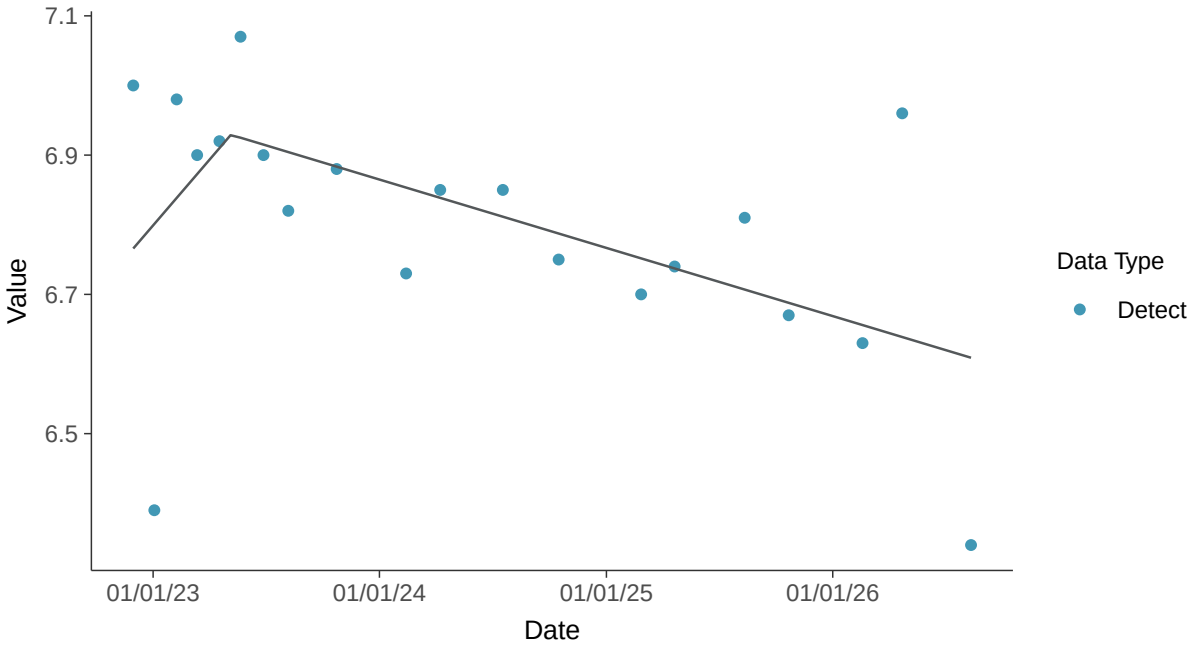
Trend Regression: Lognormal MLE

pH (field), MW-19 (su)



Trend Regression: Piecewise Linear-Linear

pH (field), MW-19 (su)

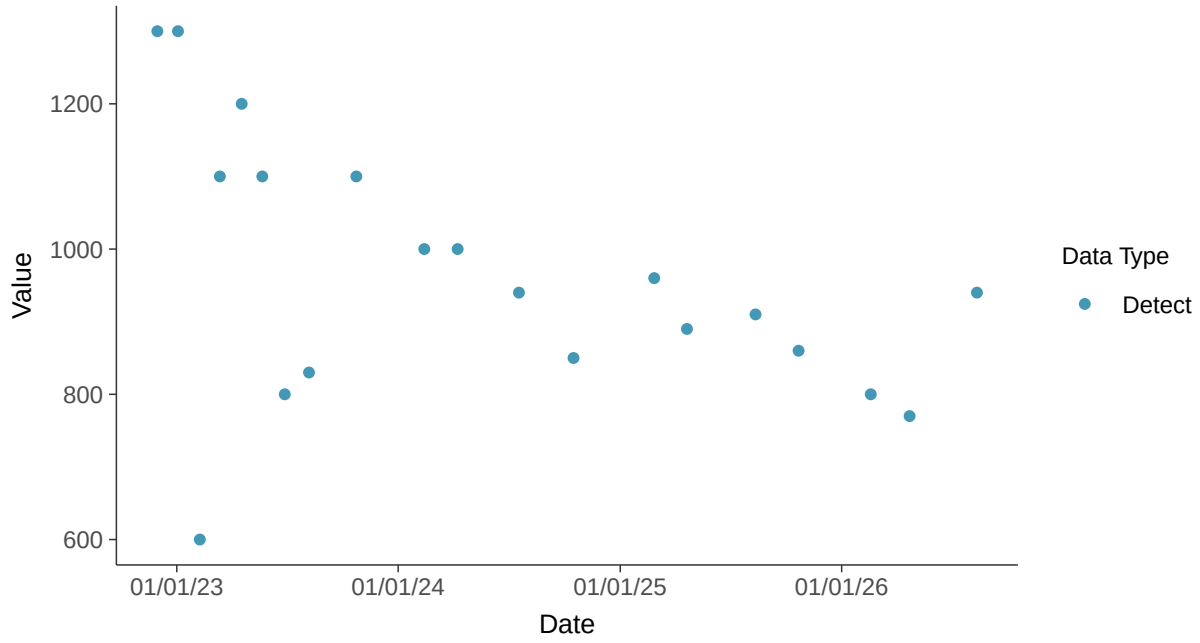


Appendix III: Sulfate (as SO4), MW-19

ID: 29_1_3_124

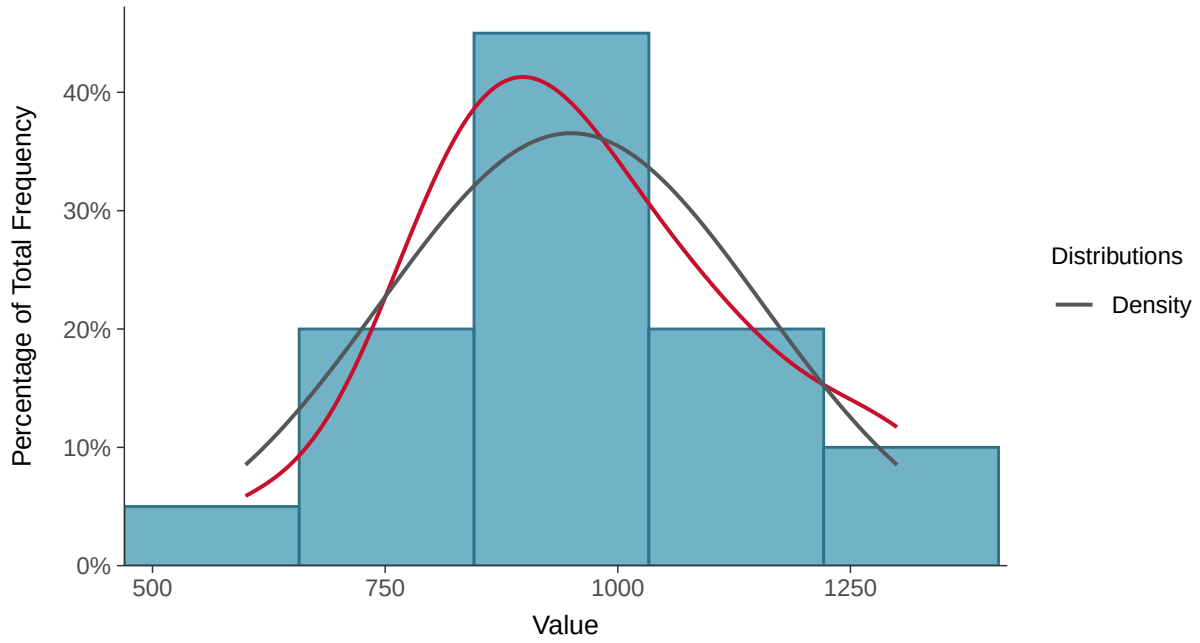
Scatter Plot

Sulfate (as SO4), MW-19 (mg/L)



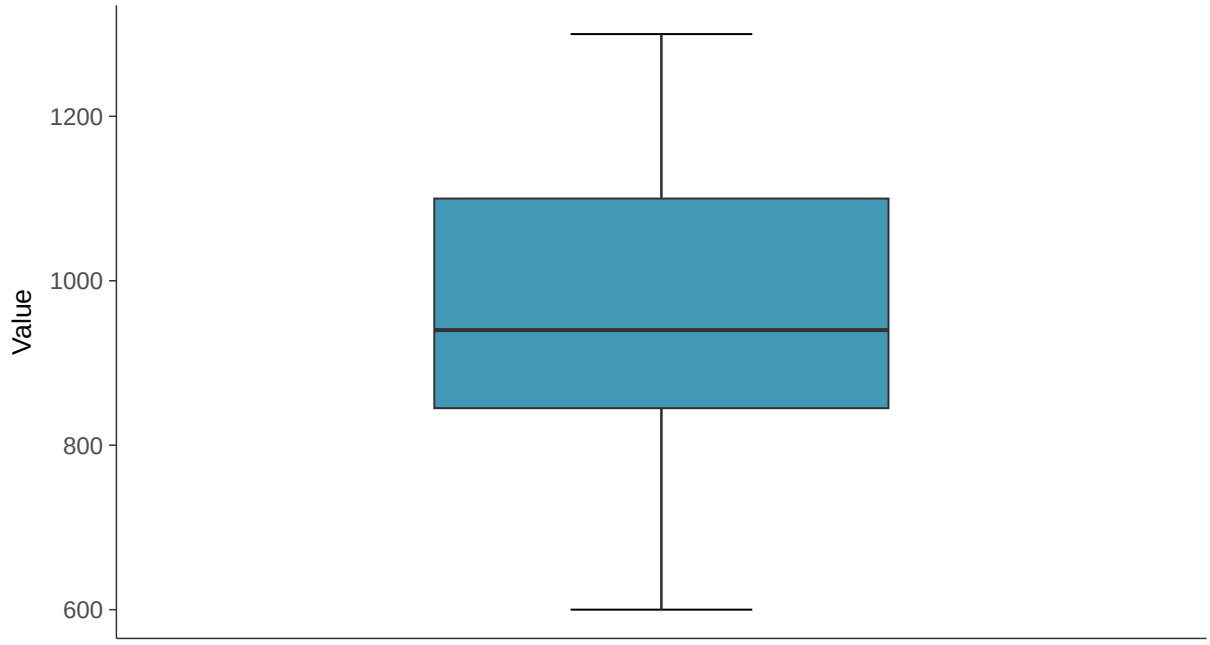
Histogram

Sulfate (as SO4), MW-19 (mg/L)



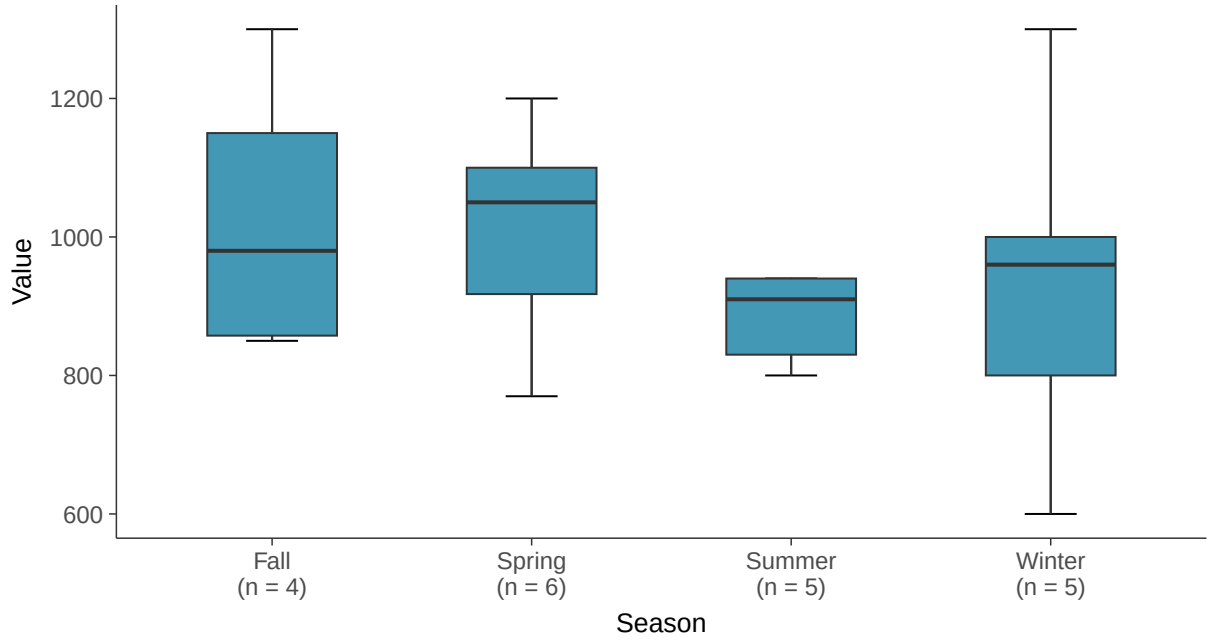
Boxplot

Sulfate (as SO4), MW-19 (mg/L)



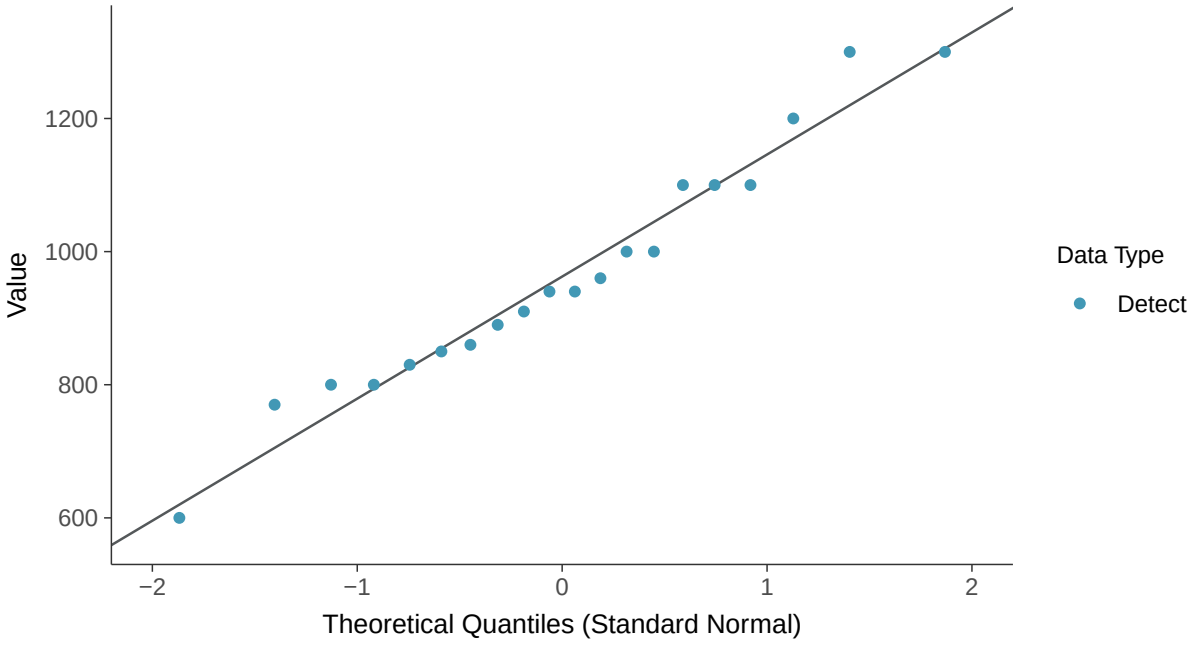
Boxplot by Season

Sulfate (as SO4), MW-19 (mg/L)



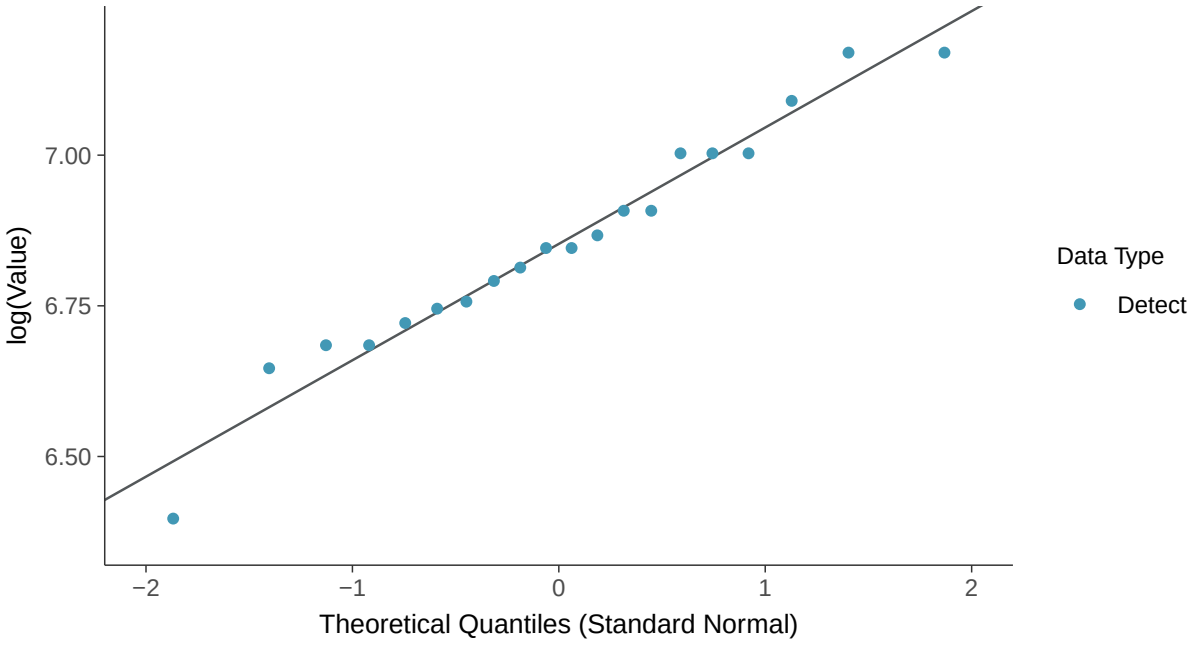
Normal Q-Q plot

Sulfate (as SO4), MW-19 (mg/L)



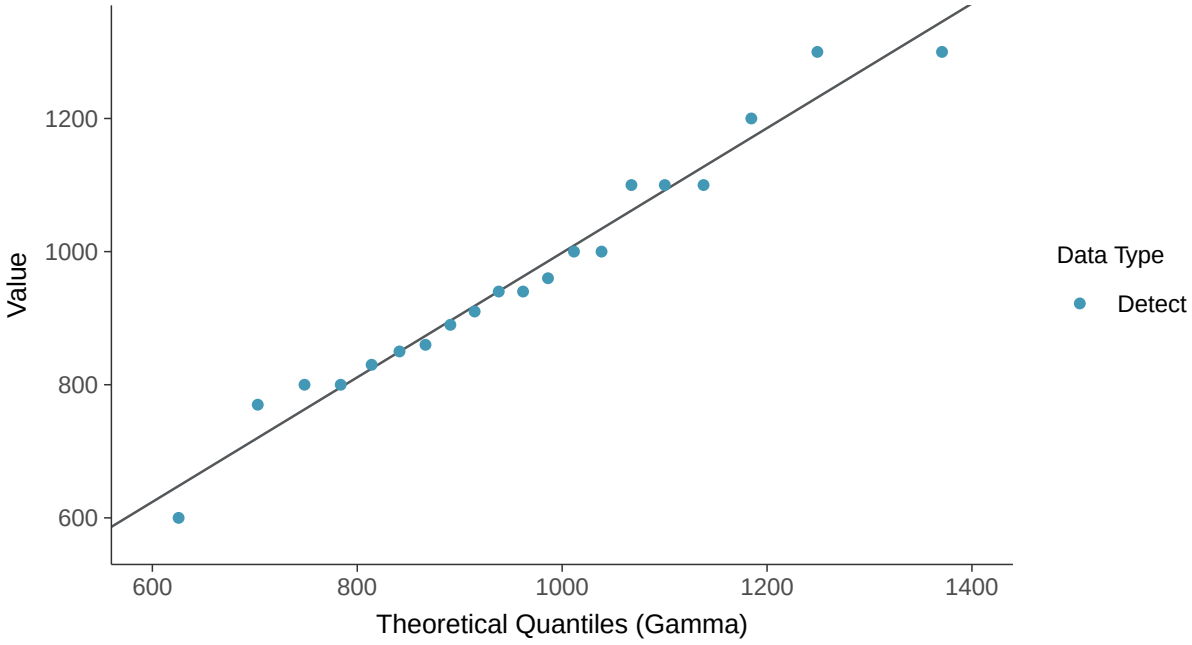
Lognormal Q-Q plot

Sulfate (as SO4), MW-19 (mg/L)



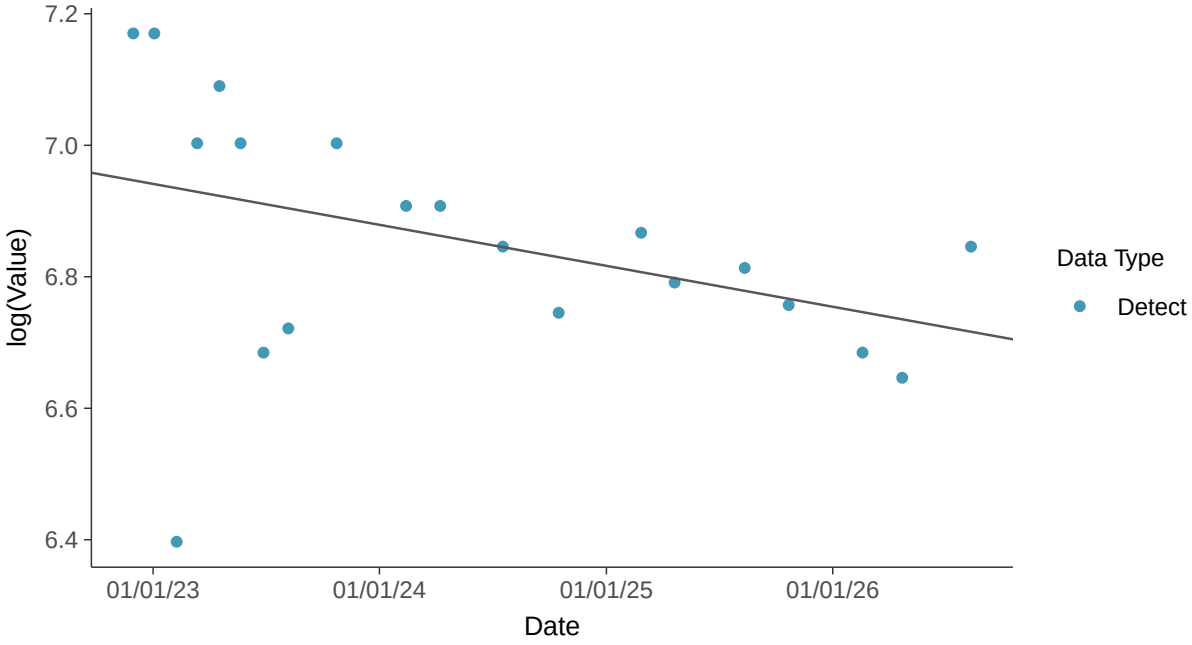
Gamma Q-Q plot

Sulfate (as SO4), MW-19 (mg/L)



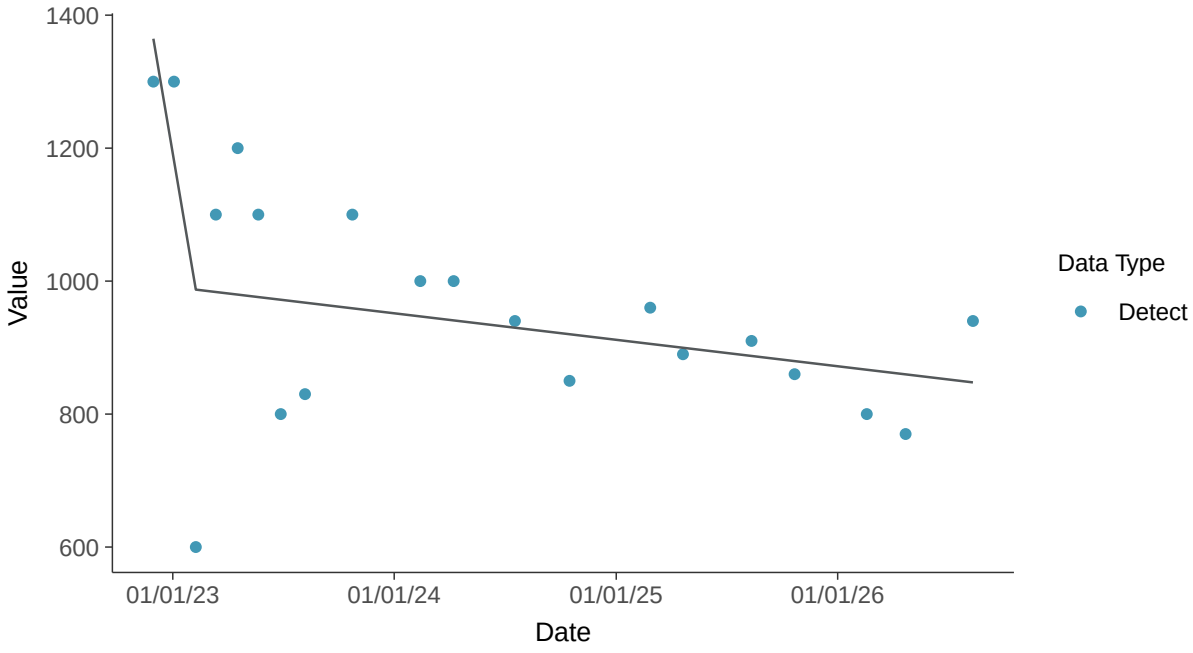
Trend Regression: Lognormal MLE

Sulfate (as SO4), MW-19 (mg/L)



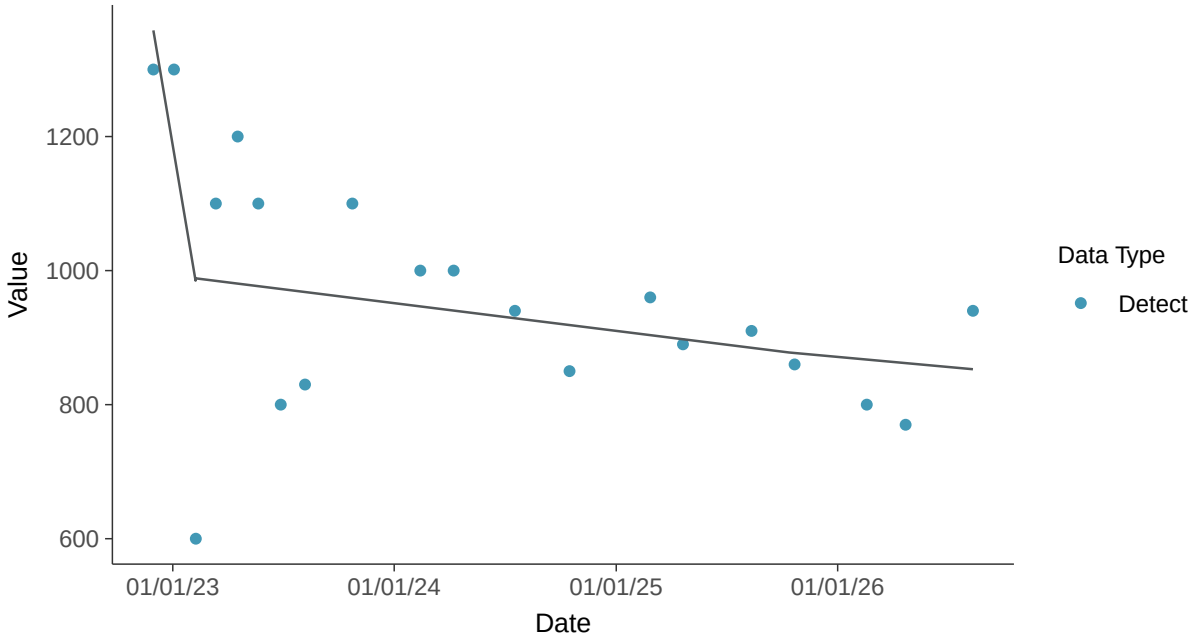
Trend Regression: Piecewise Linear-Linear

Sulfate (as SO4), MW-19 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Sulfate (as SO4), MW-19 (mg/L)

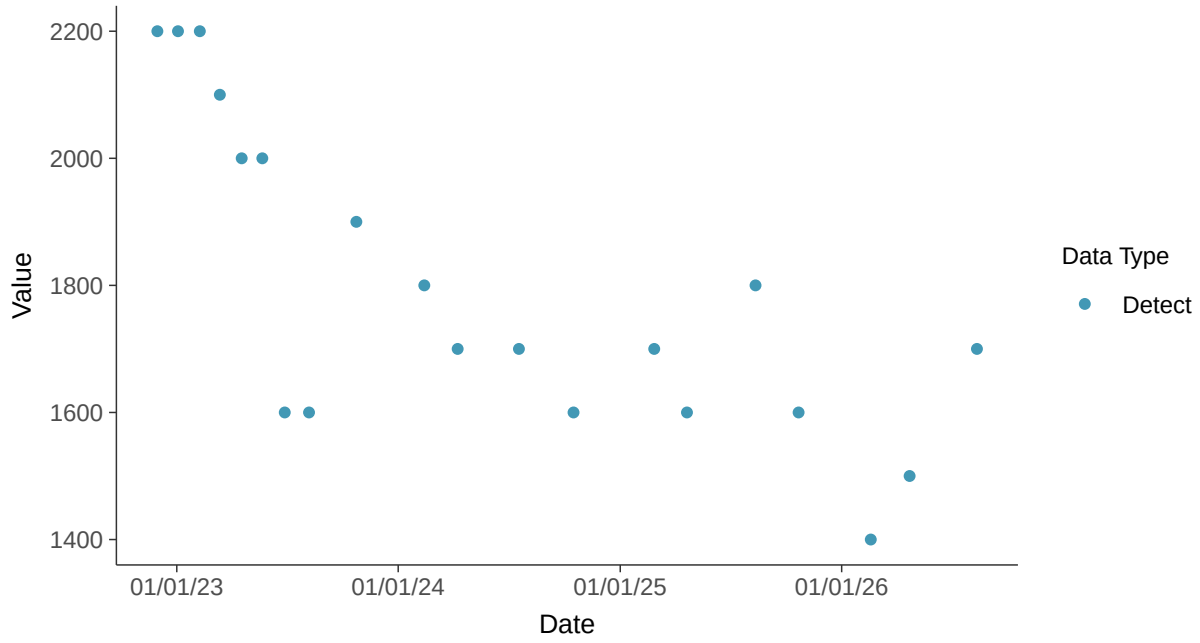


Appendix III: Total Dissolved Solids, MW-19

ID: 29_1_3_126

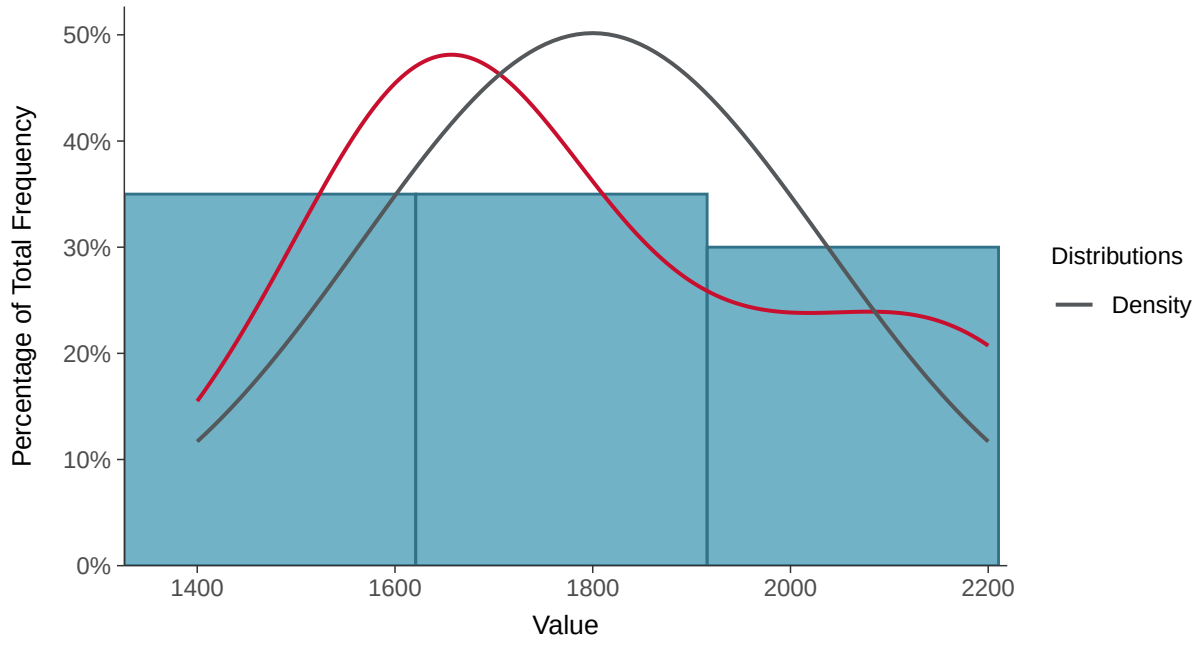
Scatter Plot

Total Dissolved Solids, MW-19 (mg/L)



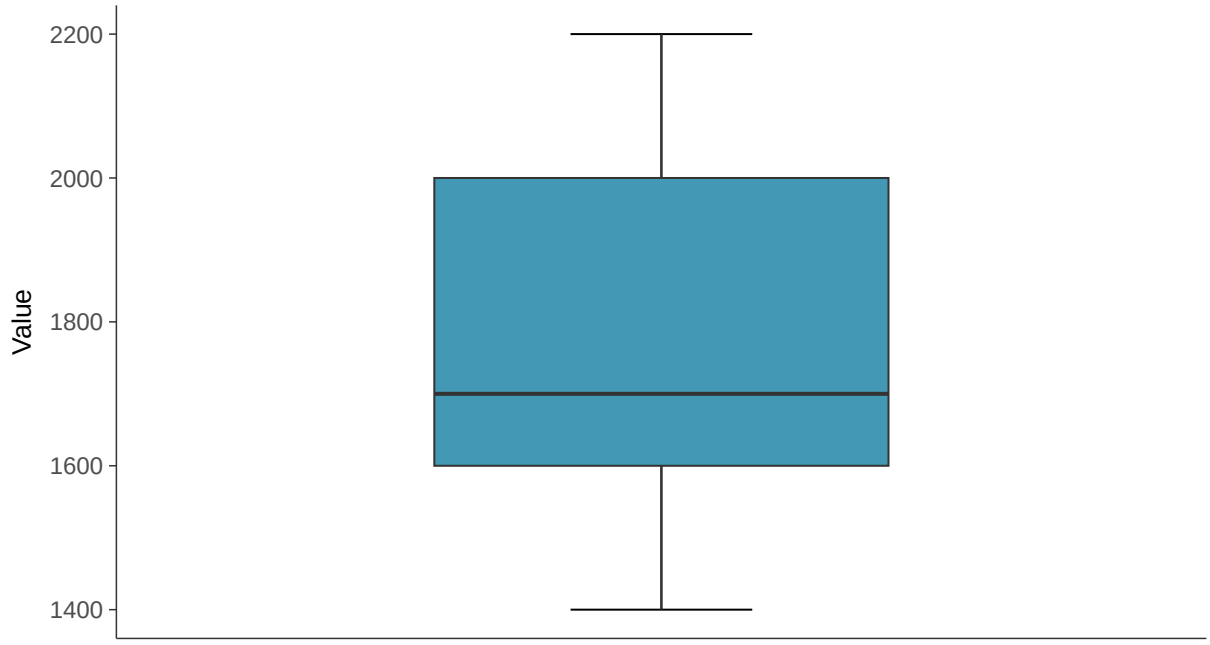
Histogram

Total Dissolved Solids, MW-19 (mg/L)



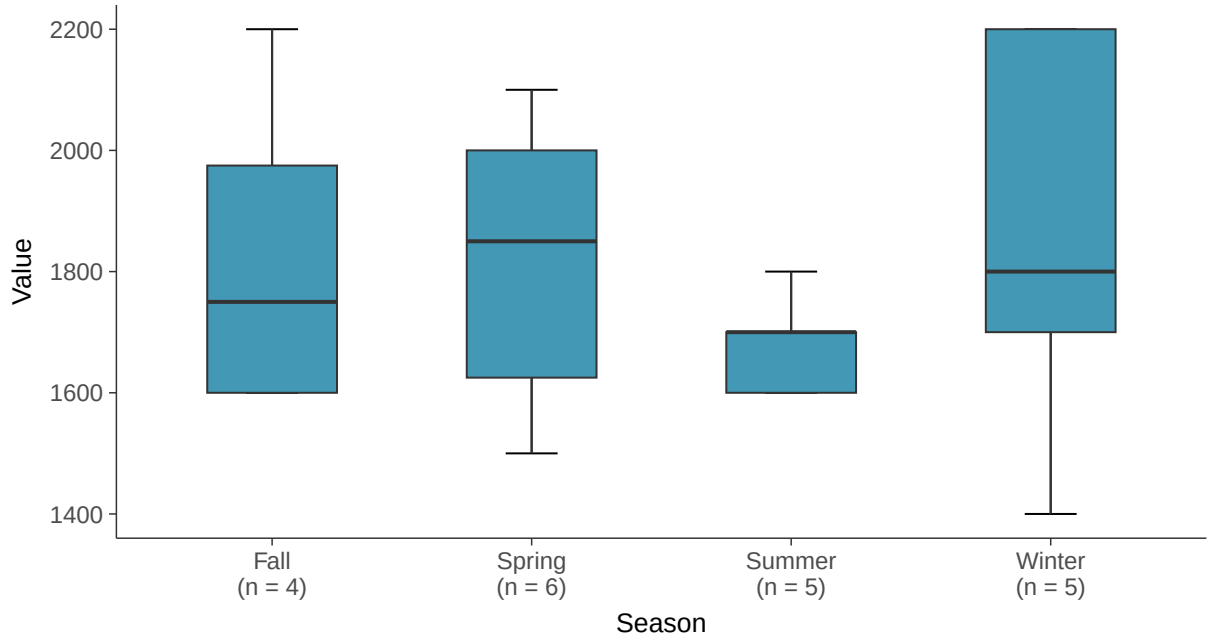
Boxplot

Total Dissolved Solids, MW-19 (mg/L)



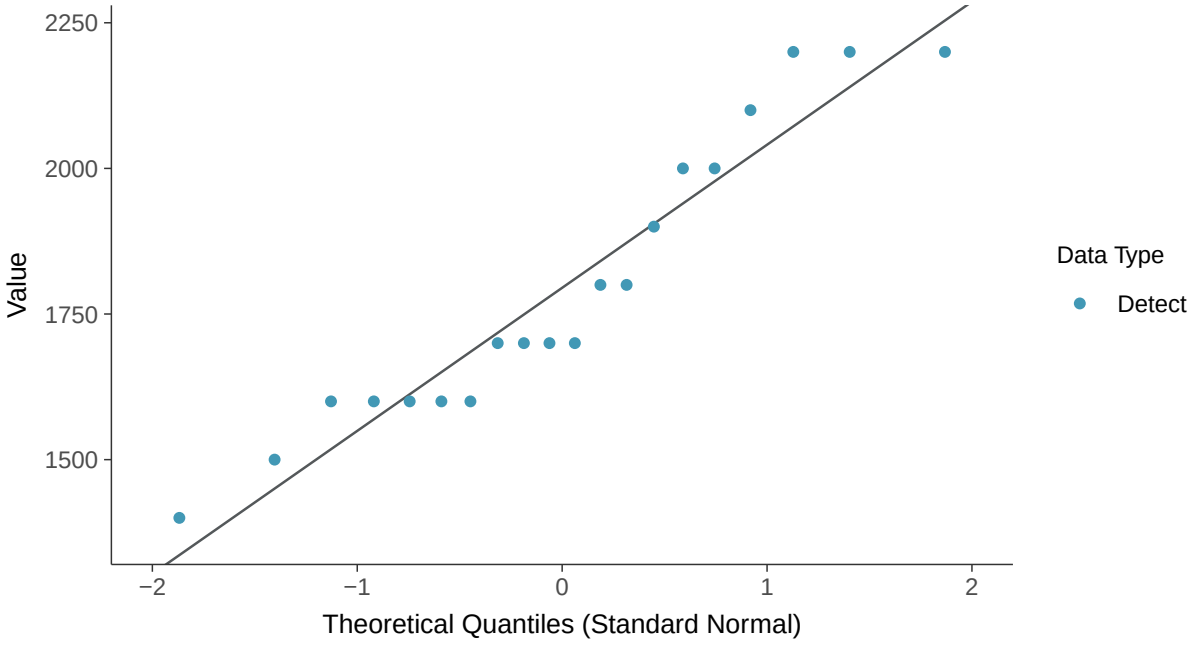
Boxplot by Season

Total Dissolved Solids, MW-19 (mg/L)



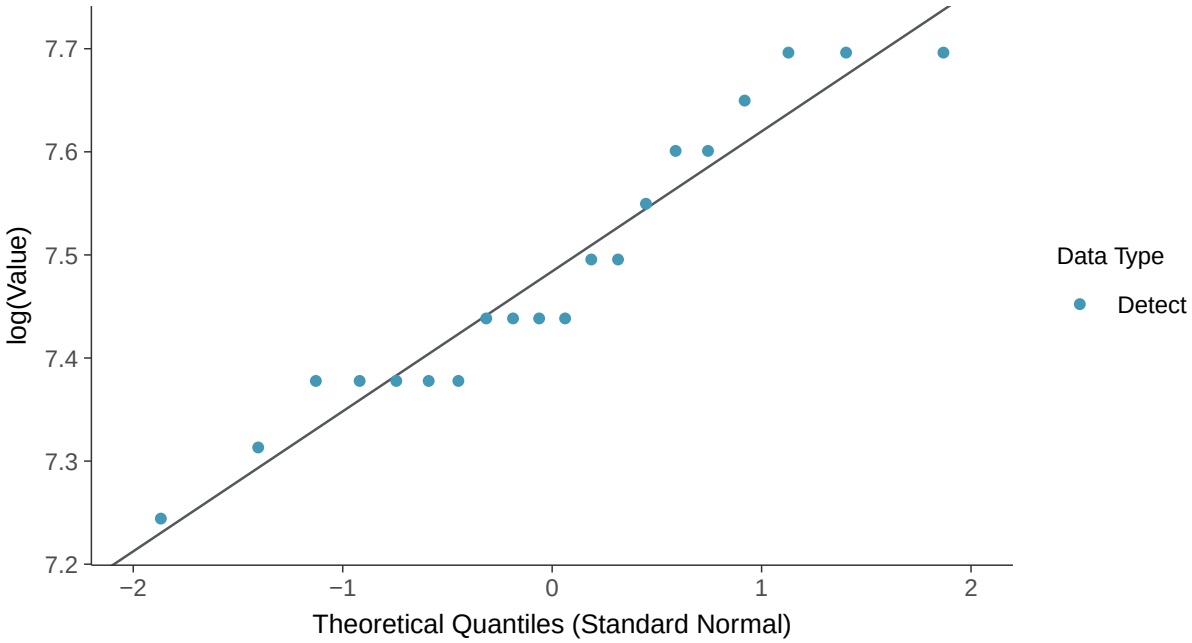
Normal Q-Q plot

Total Dissolved Solids, MW-19 (mg/L)



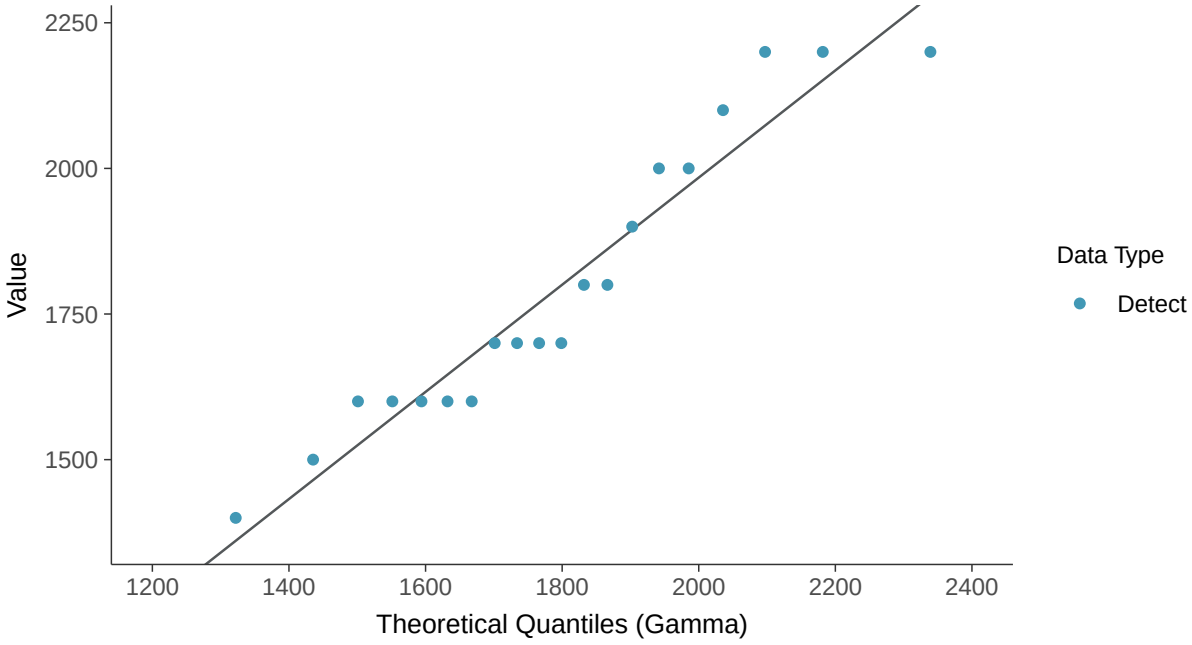
Lognormal Q-Q plot

Total Dissolved Solids, MW-19 (mg/L)



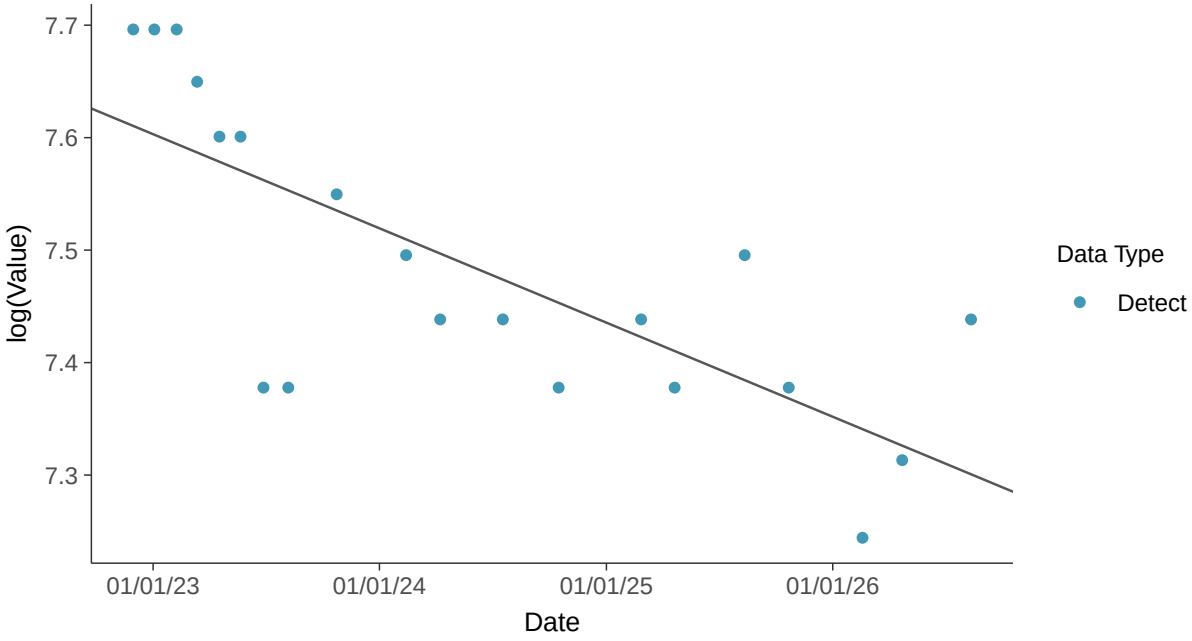
Gamma Q-Q plot

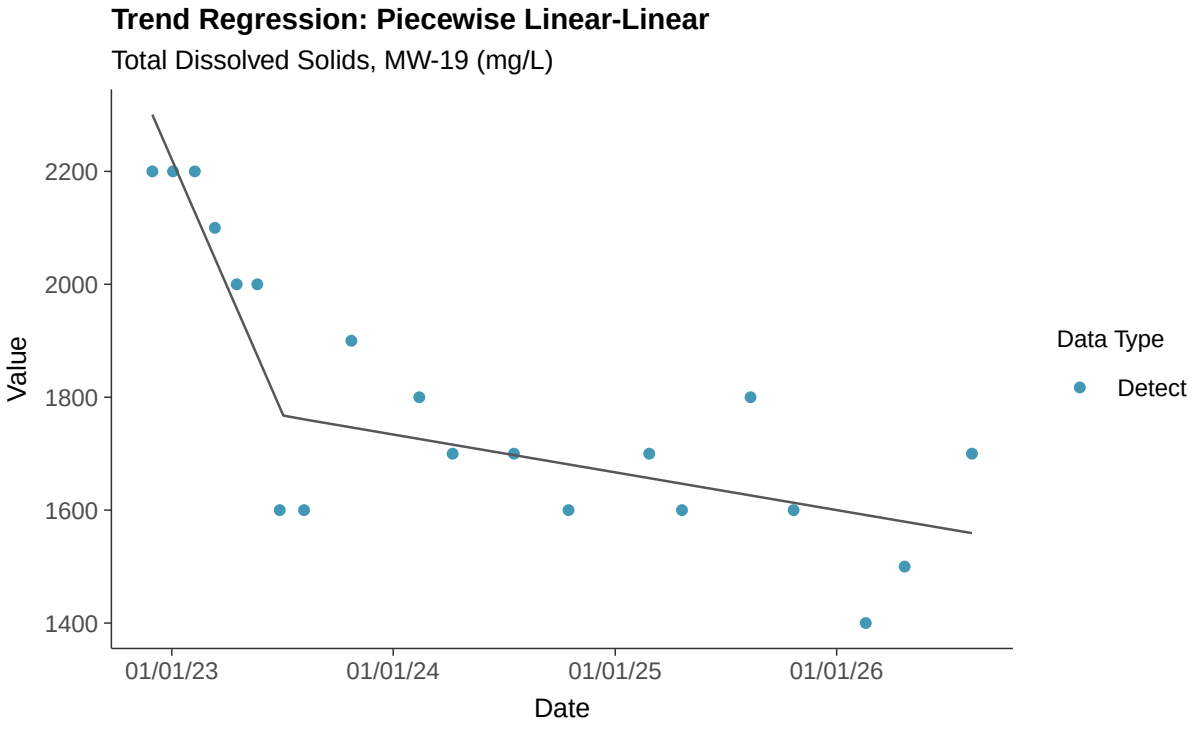
Total Dissolved Solids, MW-19 (mg/L)



Trend Regression: Lognormal MLE

Total Dissolved Solids, MW-19 (mg/L)



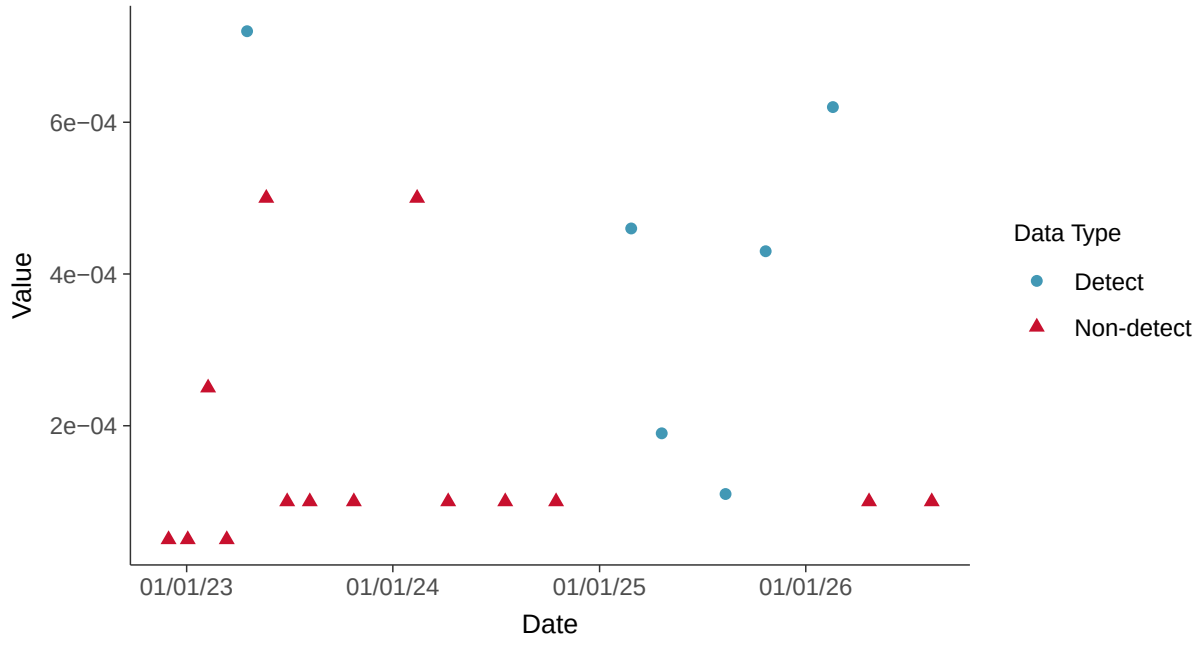

Trend Regression: Piecewise Linear-Linear
Total Dissolved Solids, MW-19 (mg/L)
Value
2200
2000
1800
1600
1400
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect

Appendix IV: Antimony, MW-19

ID: 29_1_4_101

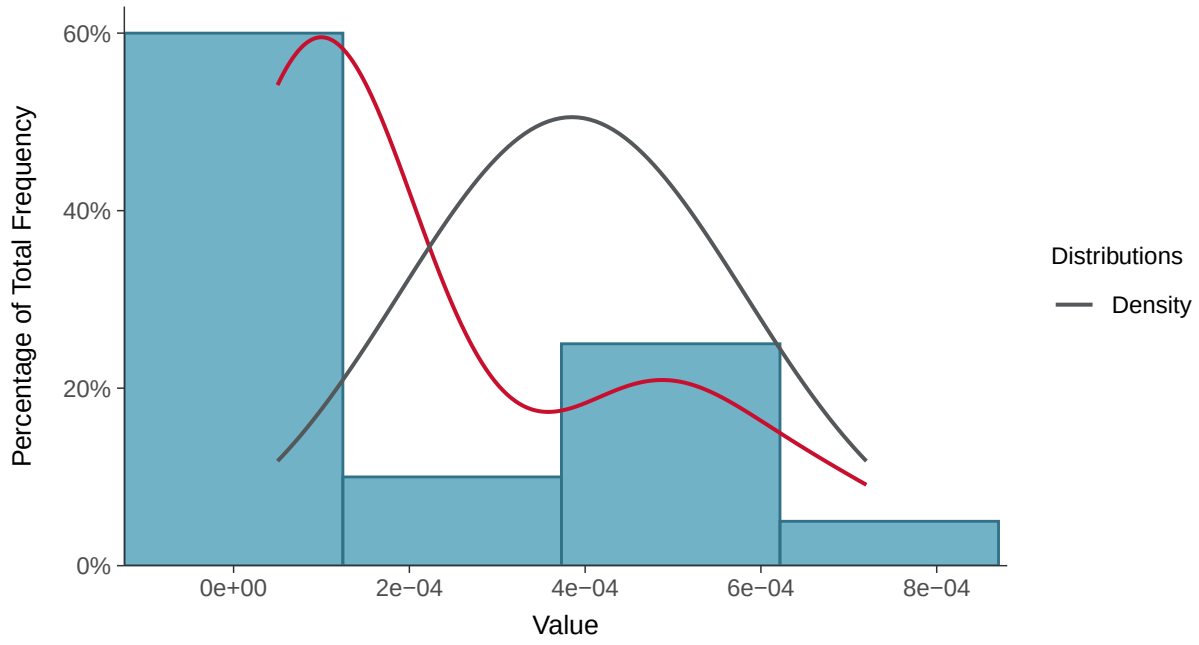
Scatter Plot

Antimony, MW-19 (mg/L)



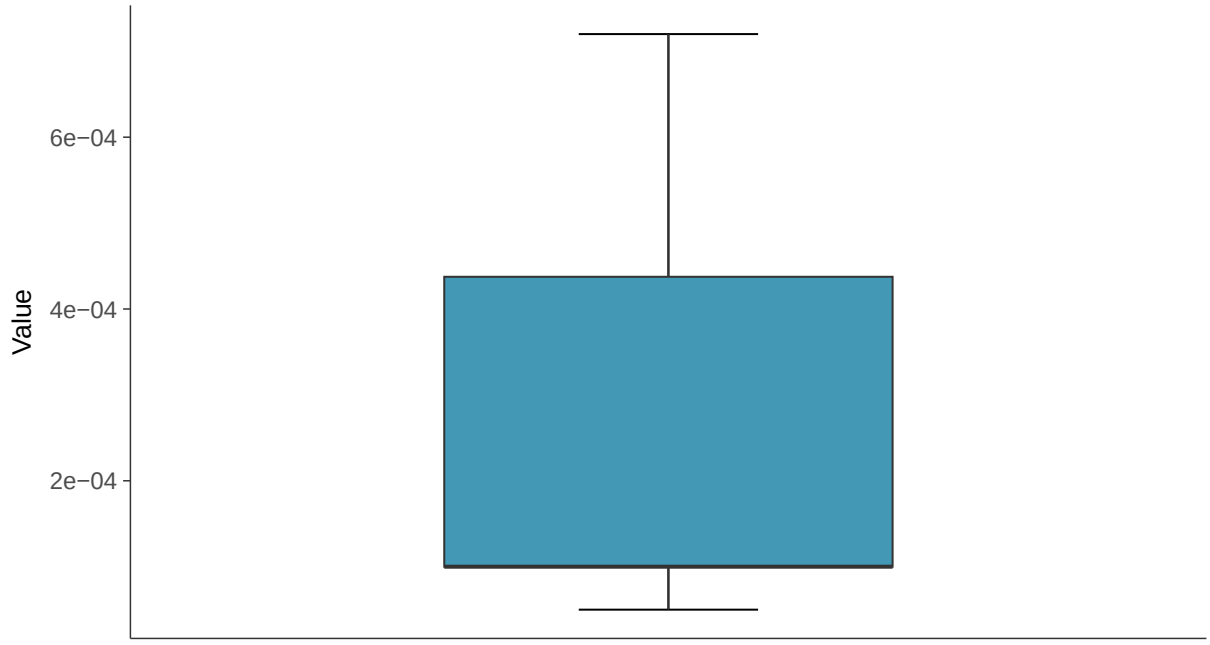
Histogram

Antimony, MW-19 (mg/L)



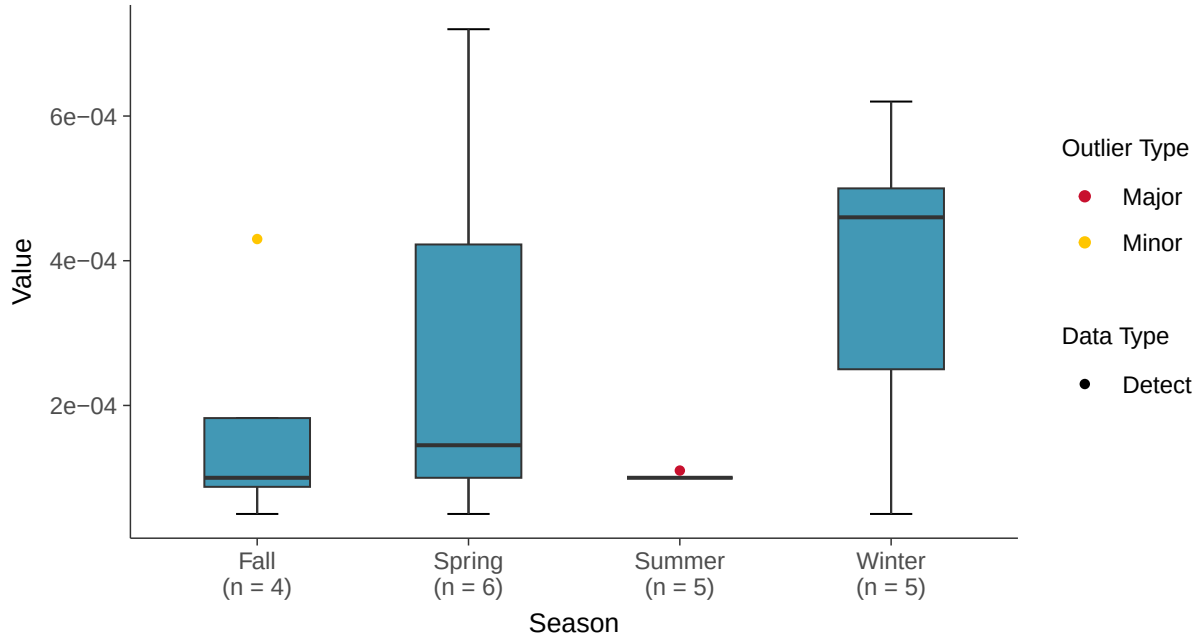
Boxplot

Antimony, MW-19 (mg/L)



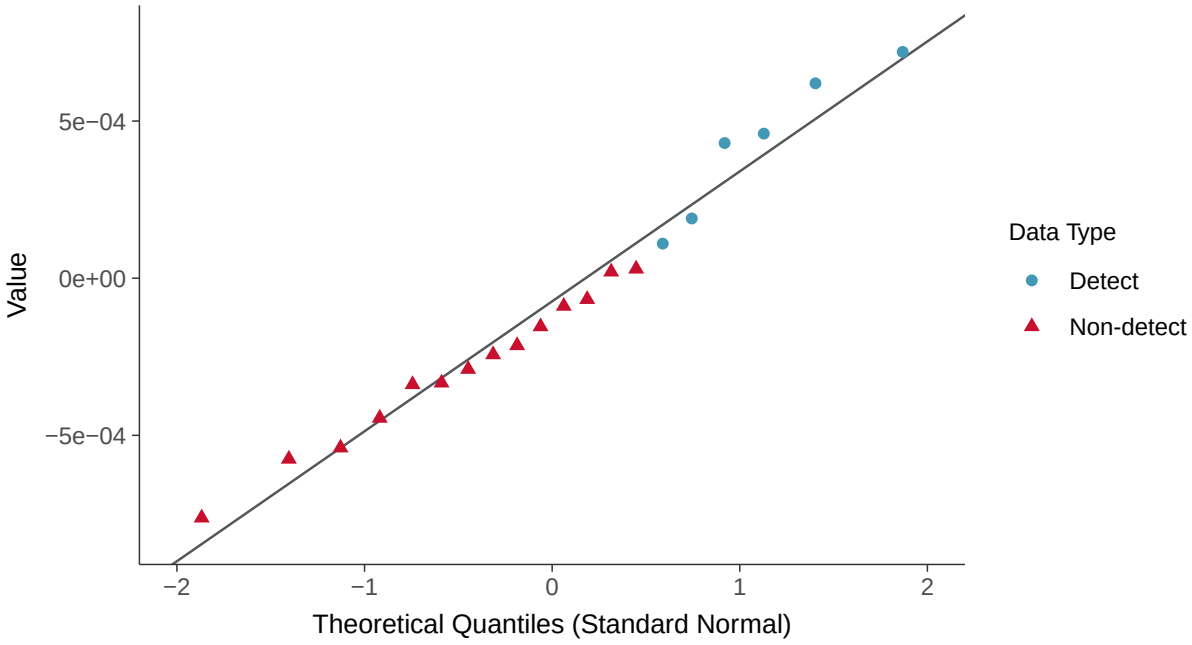
Boxplot by Season

Antimony, MW-19 (mg/L)



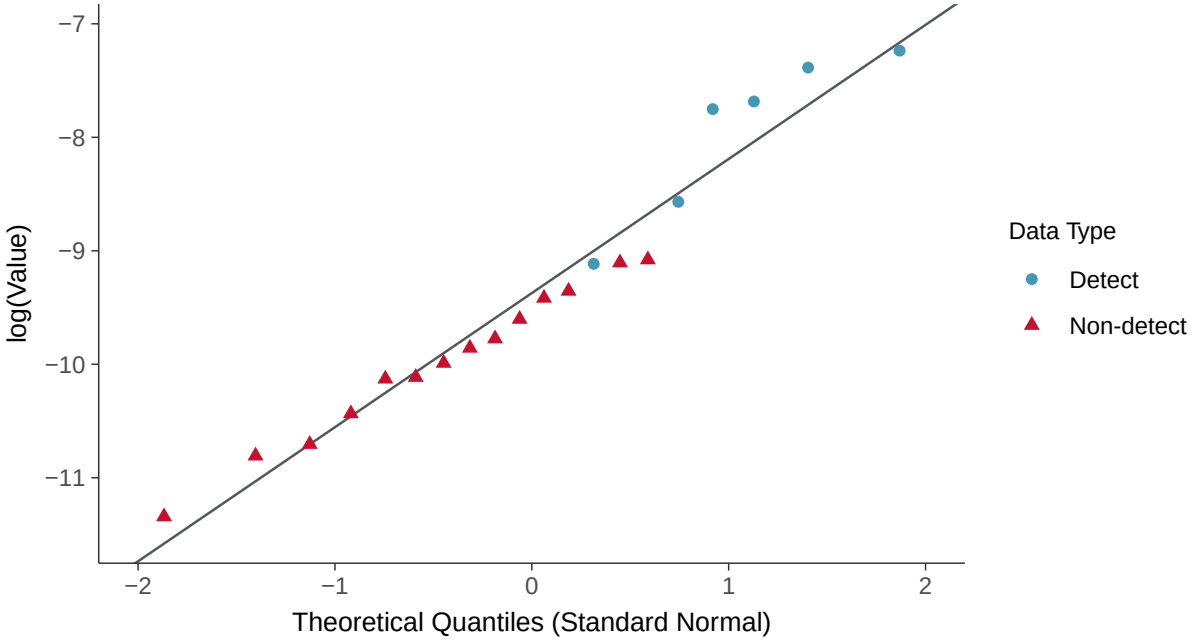
Normal Q-Q plot using ROS Imputed Estimates

Antimony, MW-19 (mg/L)



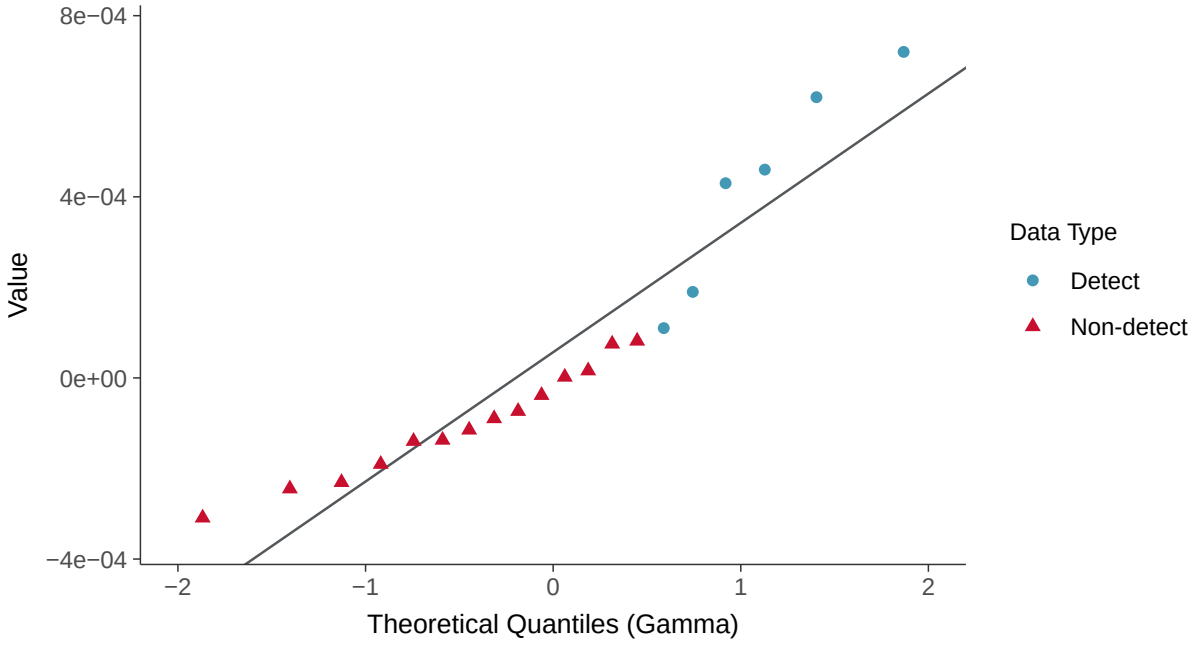
Lognormal Q-Q plot using ROS Imputed Estimates

Antimony, MW-19 (mg/L)



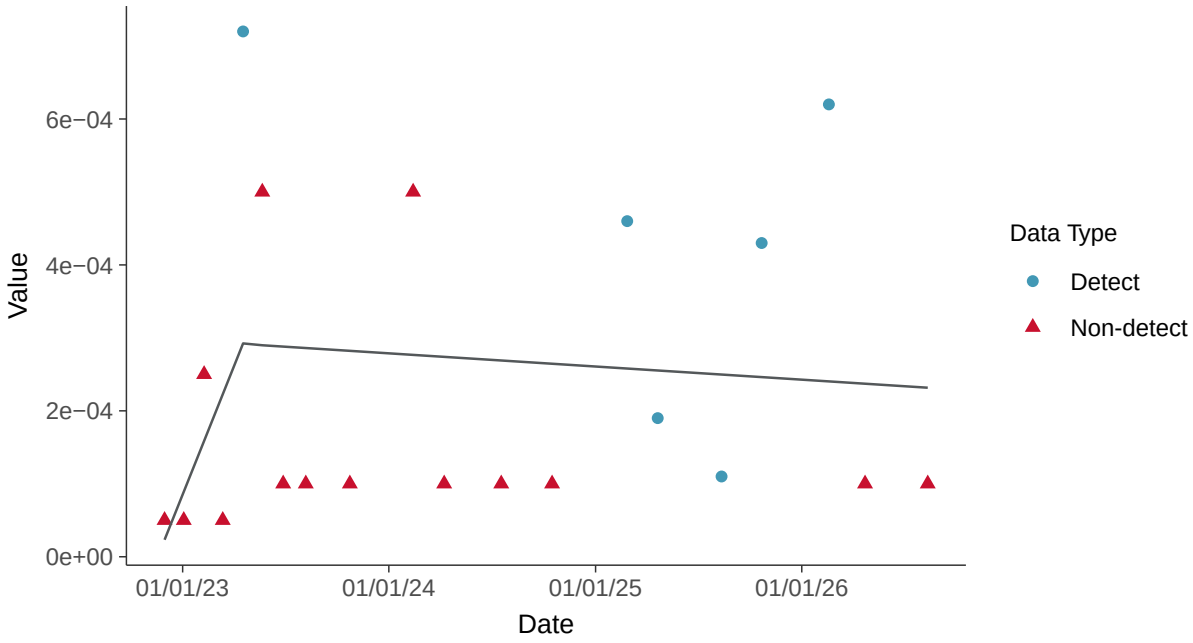
Gamma Q-Q plot using ROS Imputed Estimates

Antimony, MW-19 (mg/L)



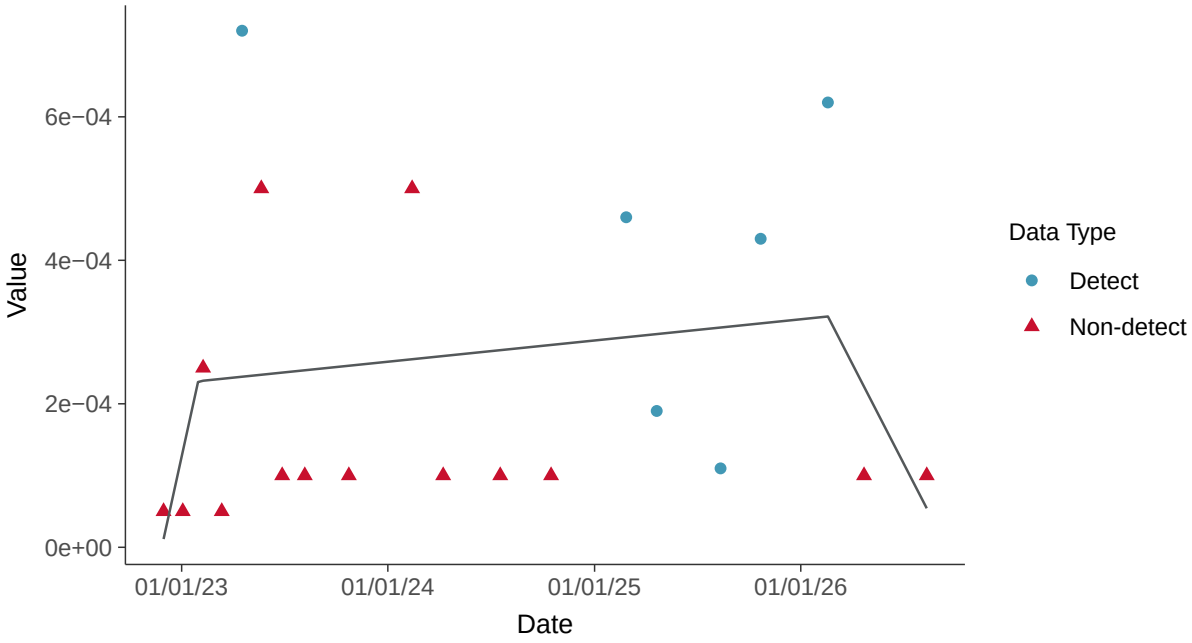
Trend Regression: Piecewise Linear-Linear

Antimony, MW-19 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Antimony, MW-19 (mg/L)

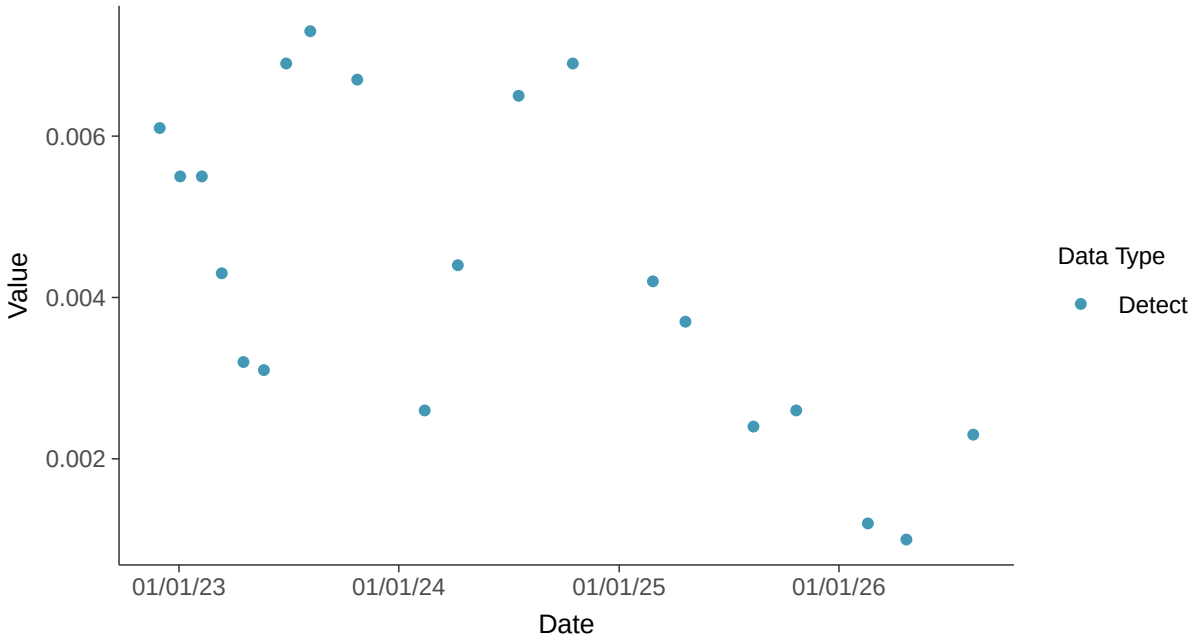


Appendix IV: Arsenic, MW-19

ID: 29_1_4_102

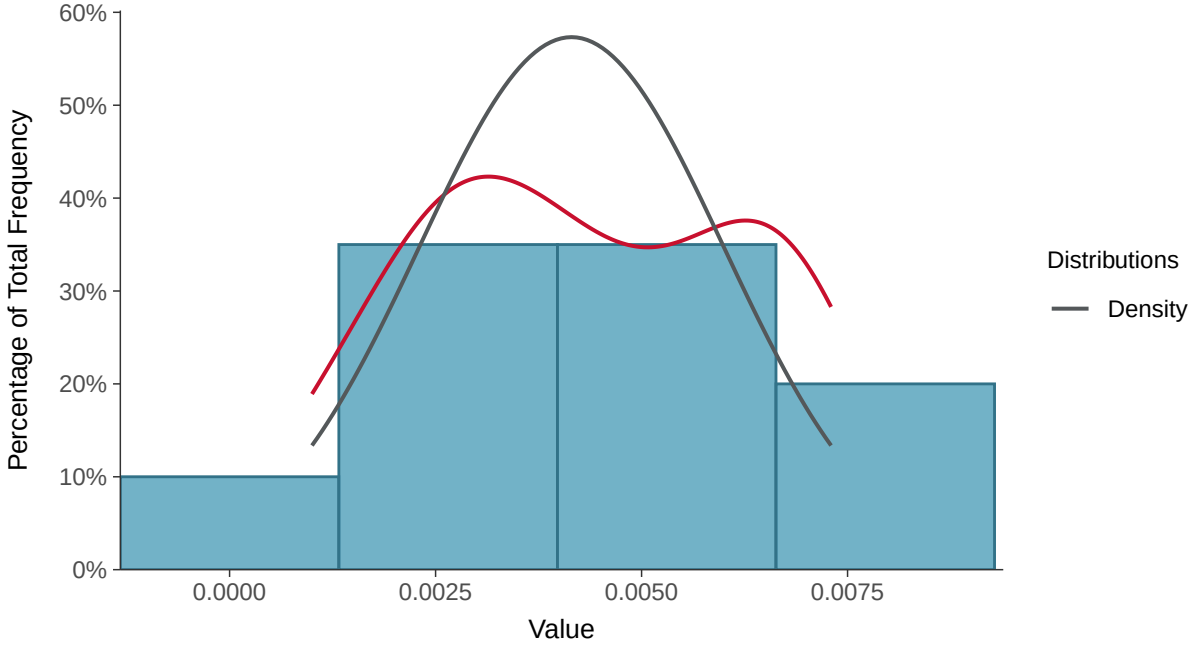
Scatter Plot

Arsenic, MW-19 (mg/L)



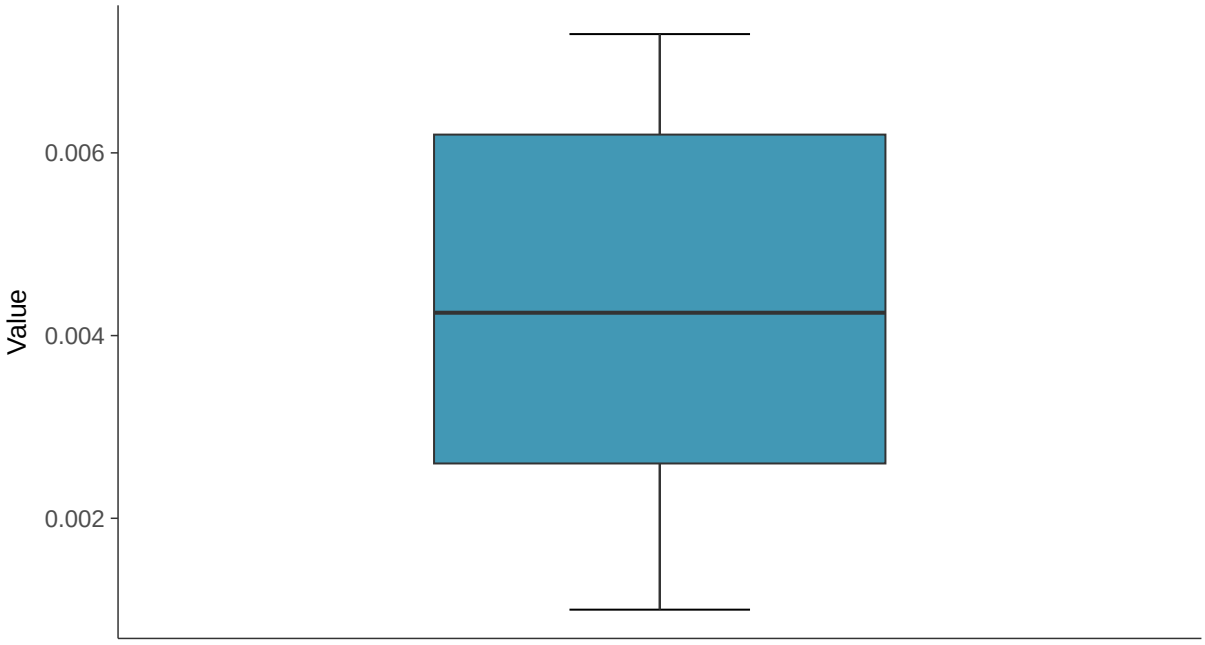
Histogram

Arsenic, MW-19 (mg/L)



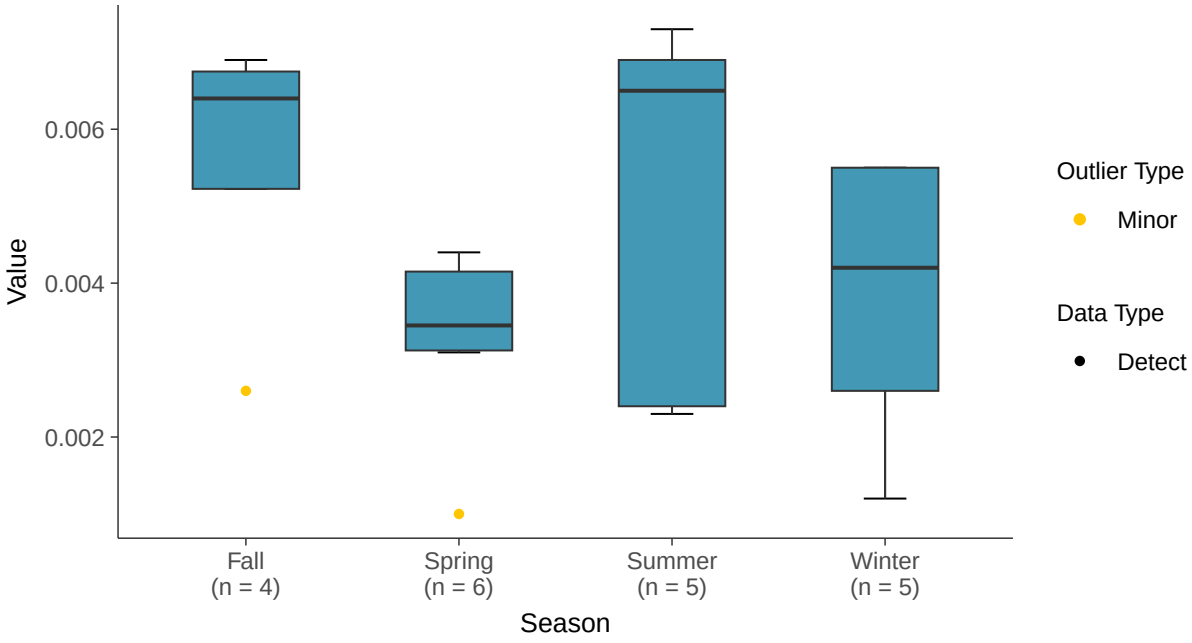
Boxplot

Arsenic, MW-19 (mg/L)



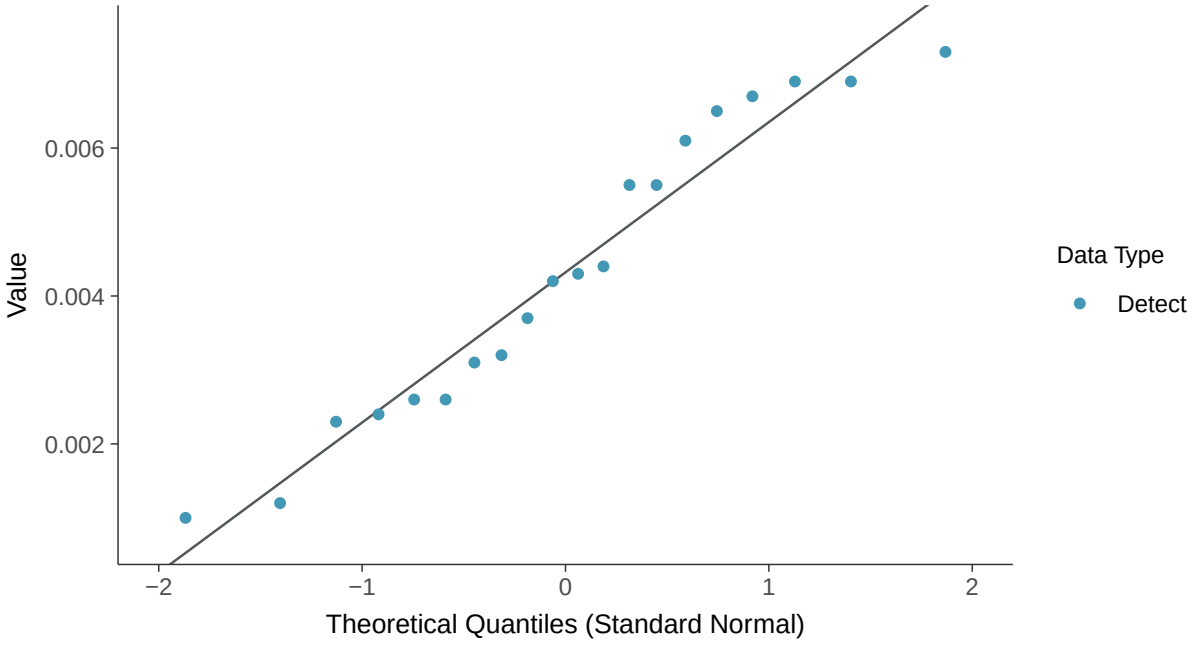
Boxplot by Season

Arsenic, MW-19 (mg/L)



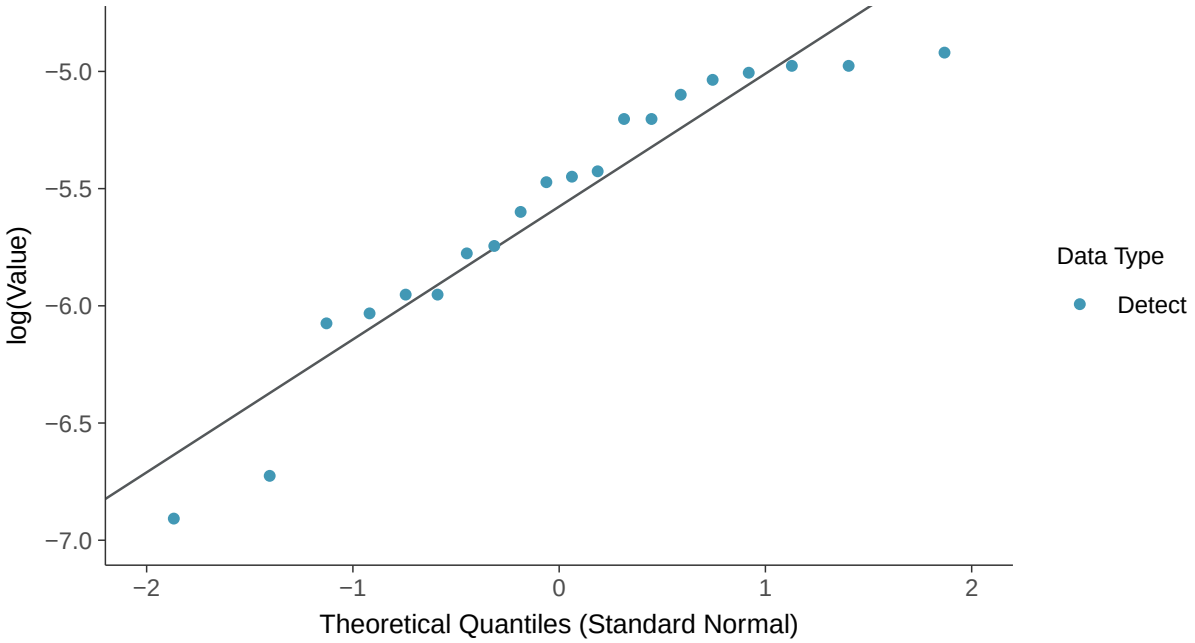
Normal Q-Q plot

Arsenic, MW-19 (mg/L)



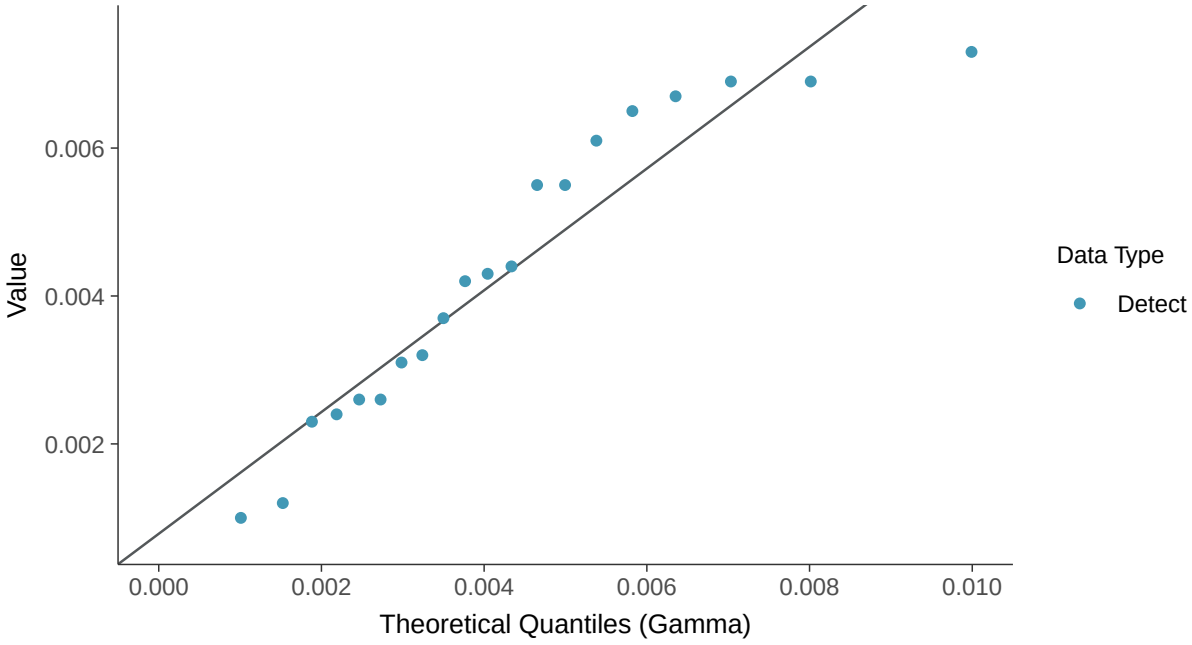
Lognormal Q-Q plot

Arsenic, MW-19 (mg/L)



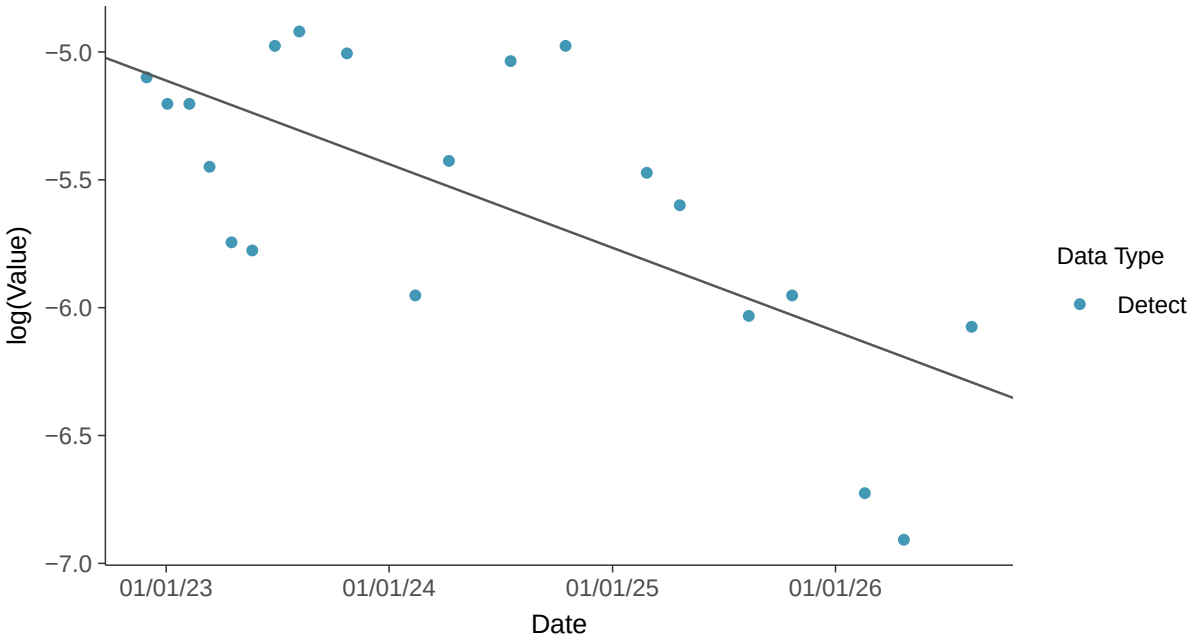
Gamma Q-Q plot

Arsenic, MW-19 (mg/L)



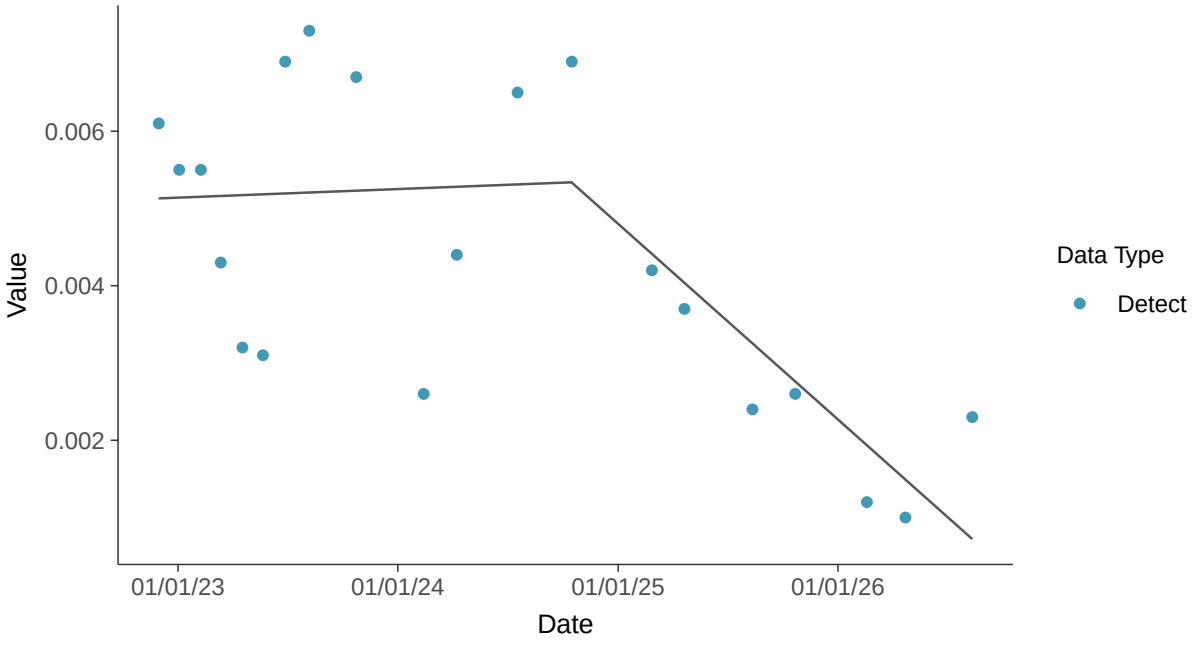
Trend Regression: Lognormal MLE

Arsenic, MW-19 (mg/L)



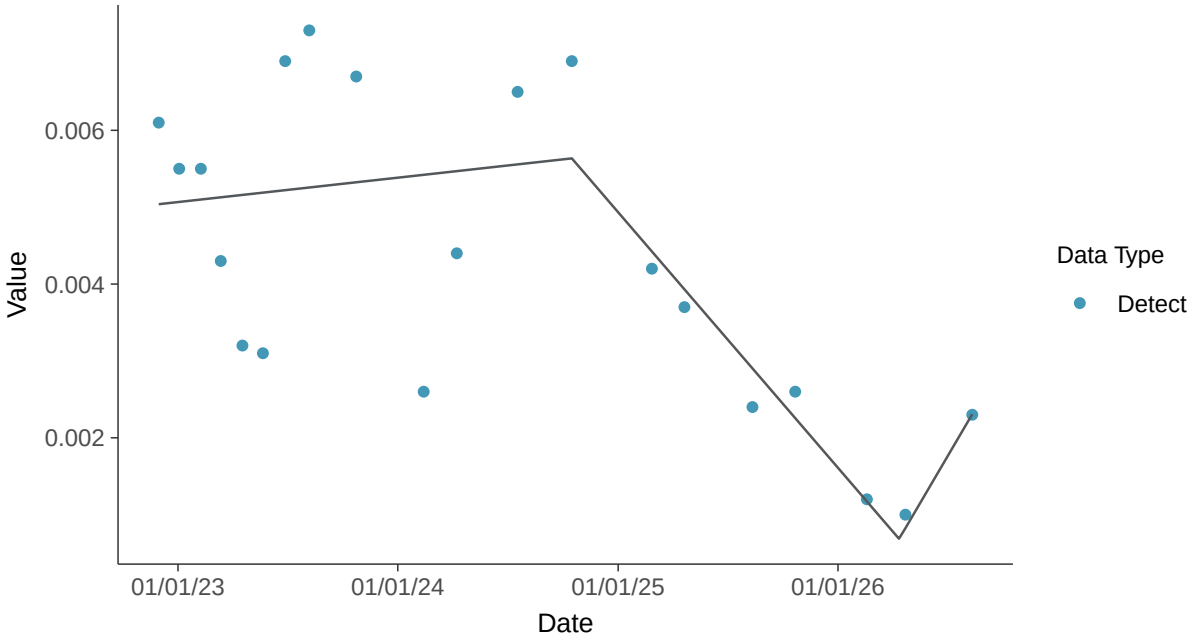
Trend Regression: Piecewise Linear-Linear

Arsenic, MW-19 (mg/L)



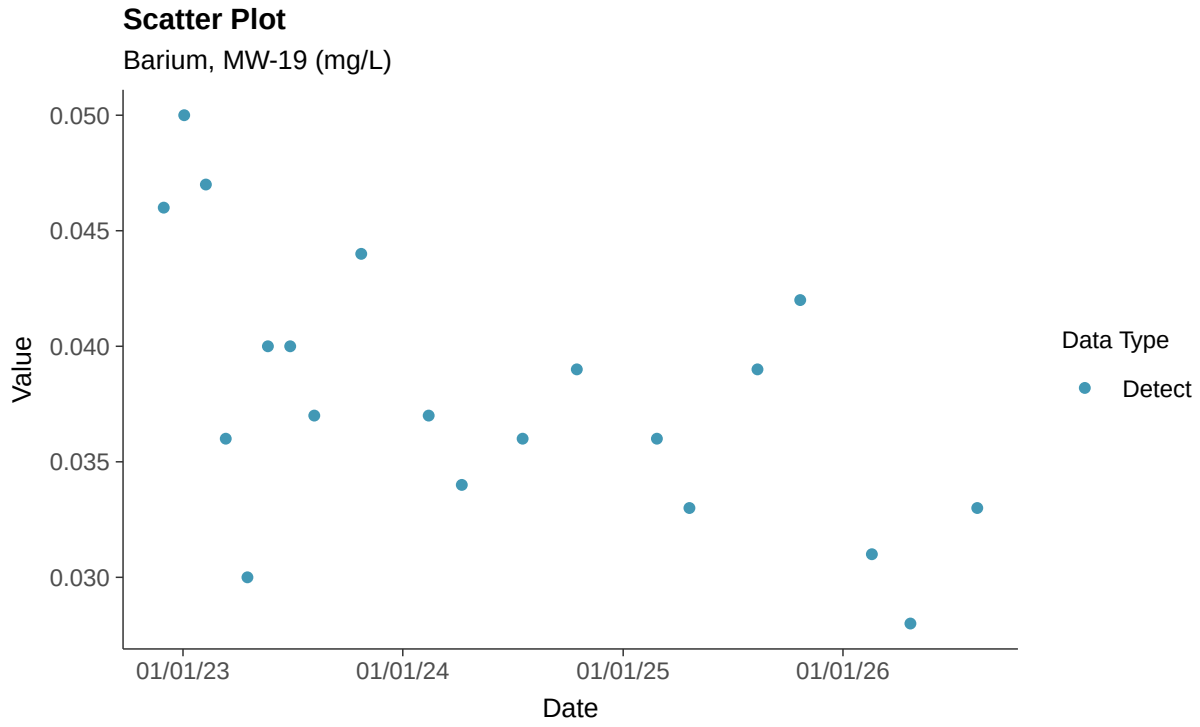
Trend Regression: Piecewise Linear-Linear-Linear

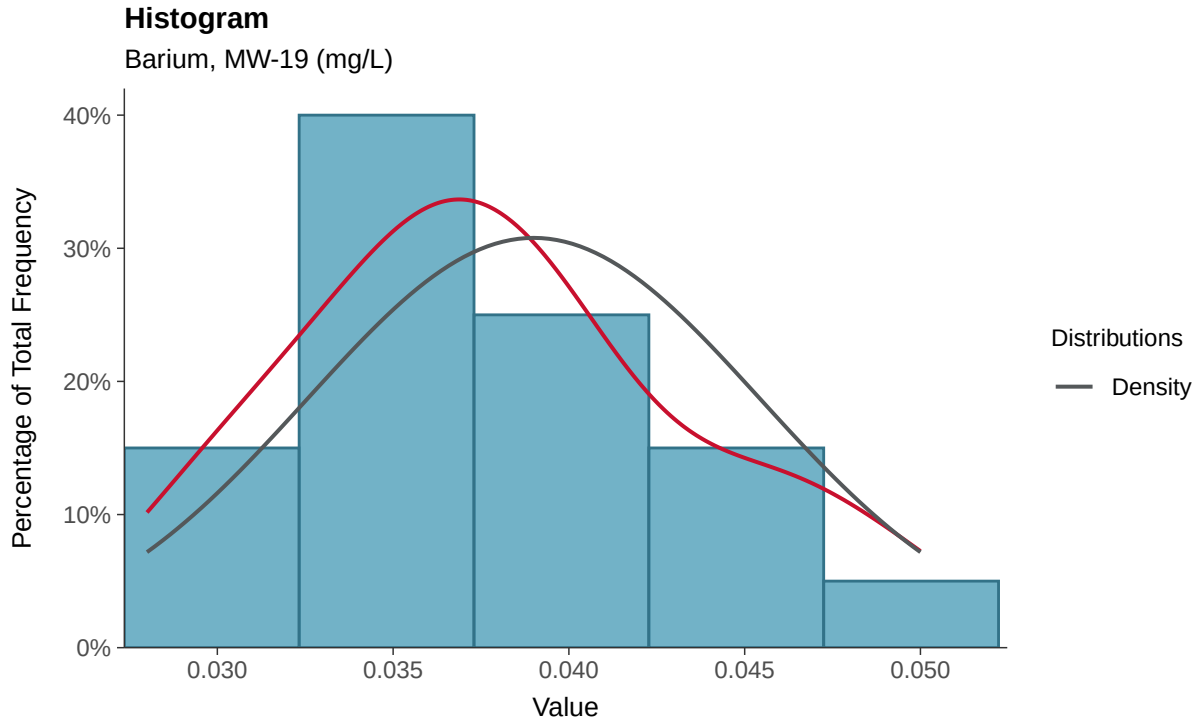
Arsenic, MW-19 (mg/L)



Appendix IV: Barium, MW-19

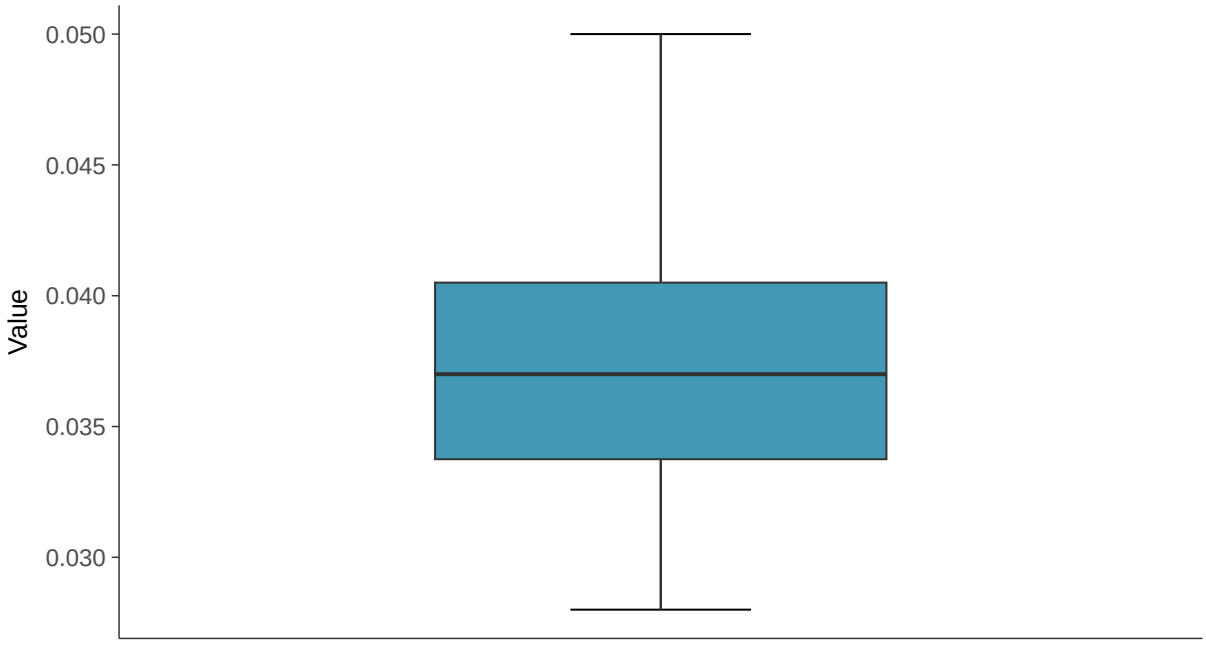
ID: 29_1_4_103





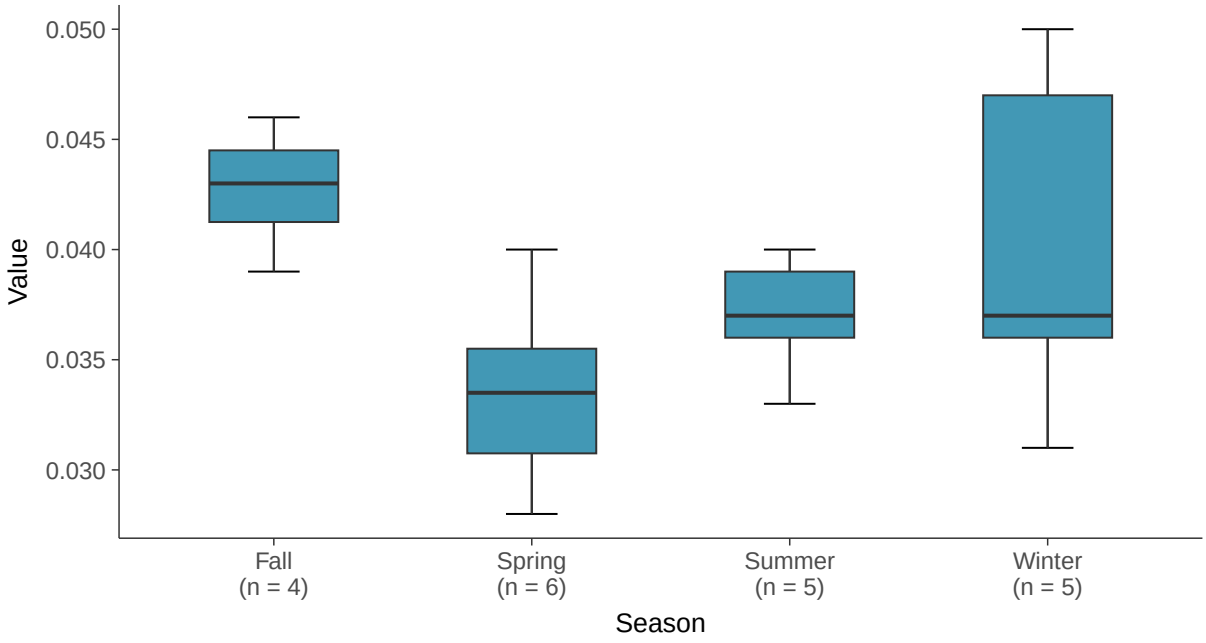
Boxplot

Barium, MW-19 (mg/L)



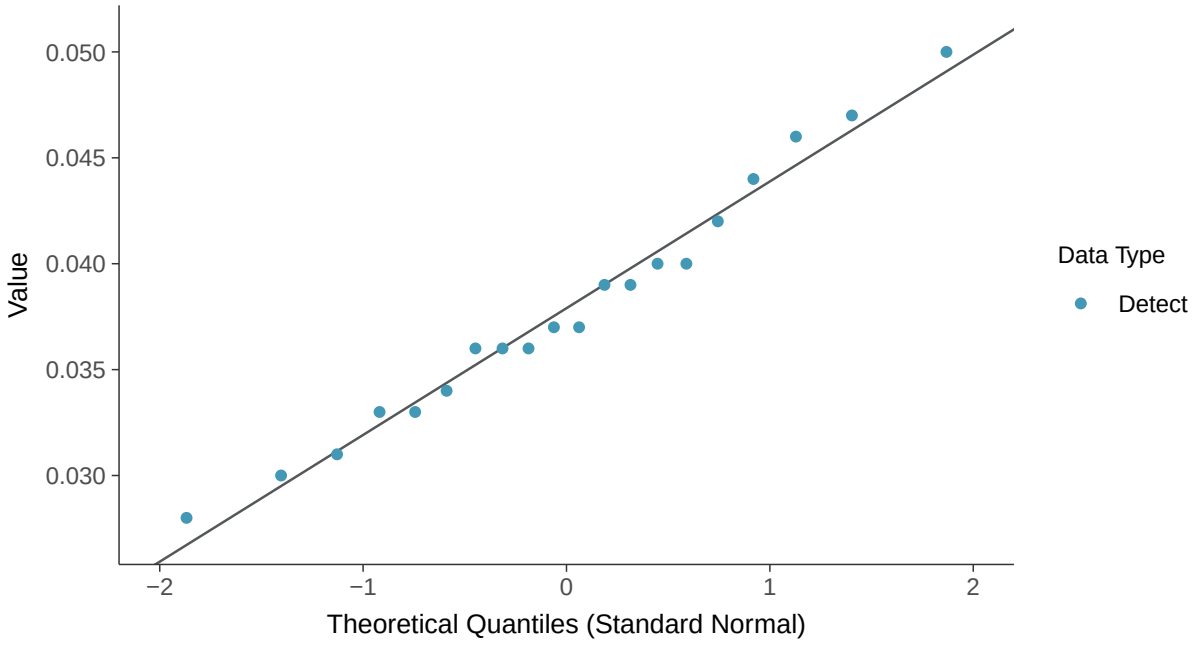
Boxplot by Season

Barium, MW-19 (mg/L)



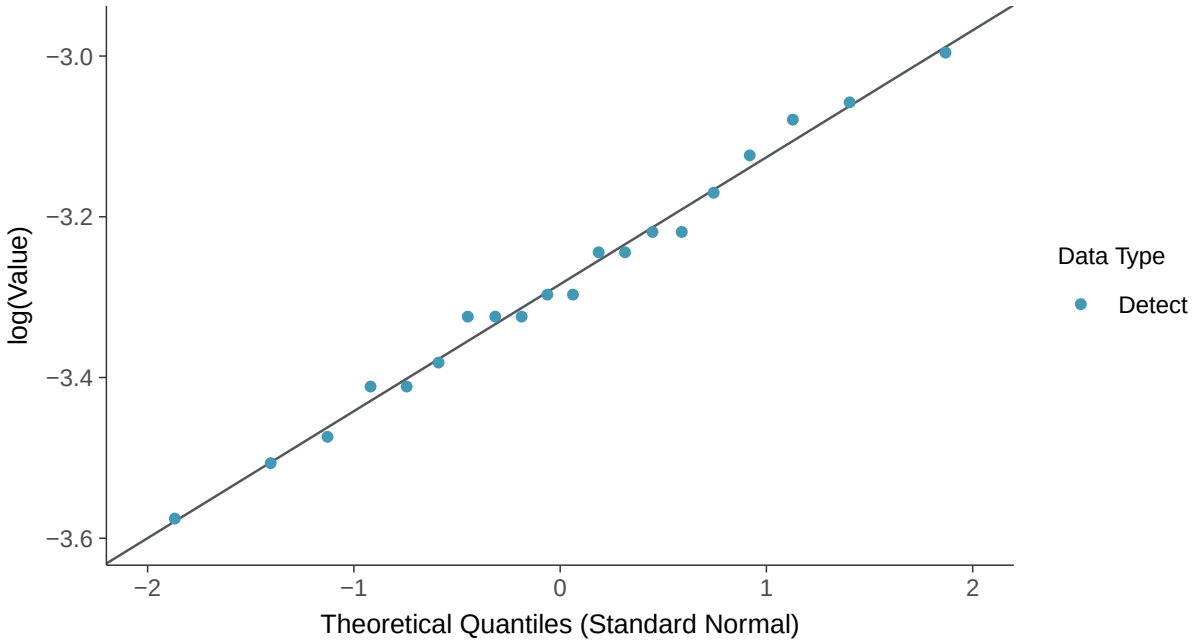
Normal Q-Q plot

Barium, MW-19 (mg/L)



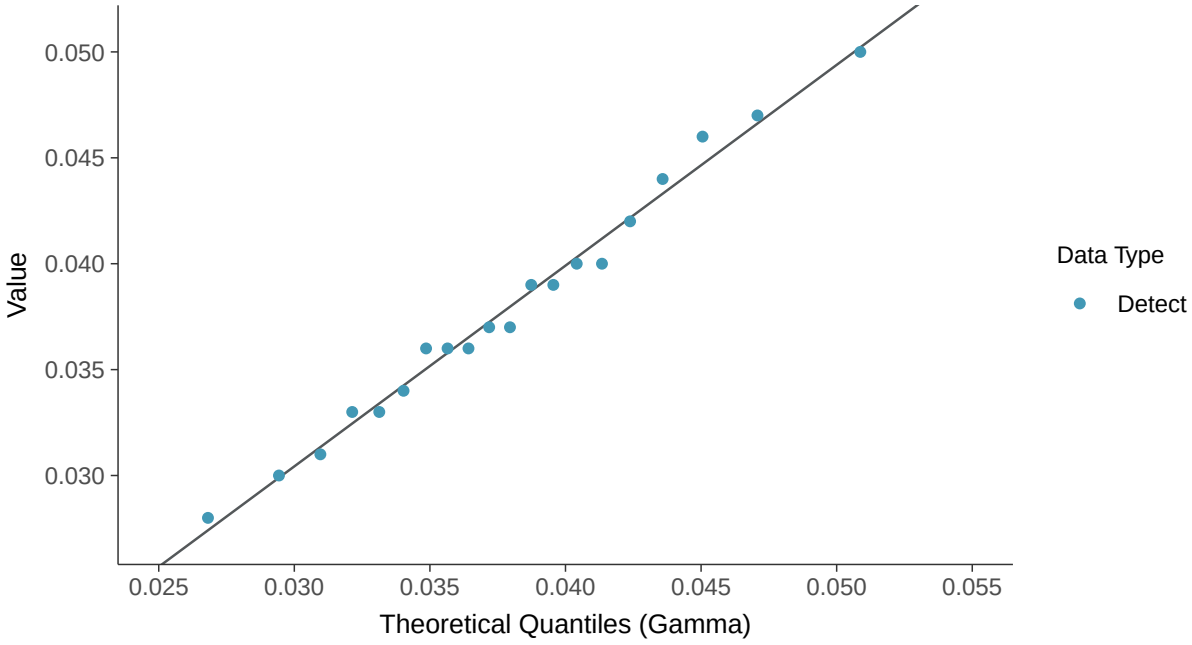
Lognormal Q-Q plot

Barium, MW-19 (mg/L)



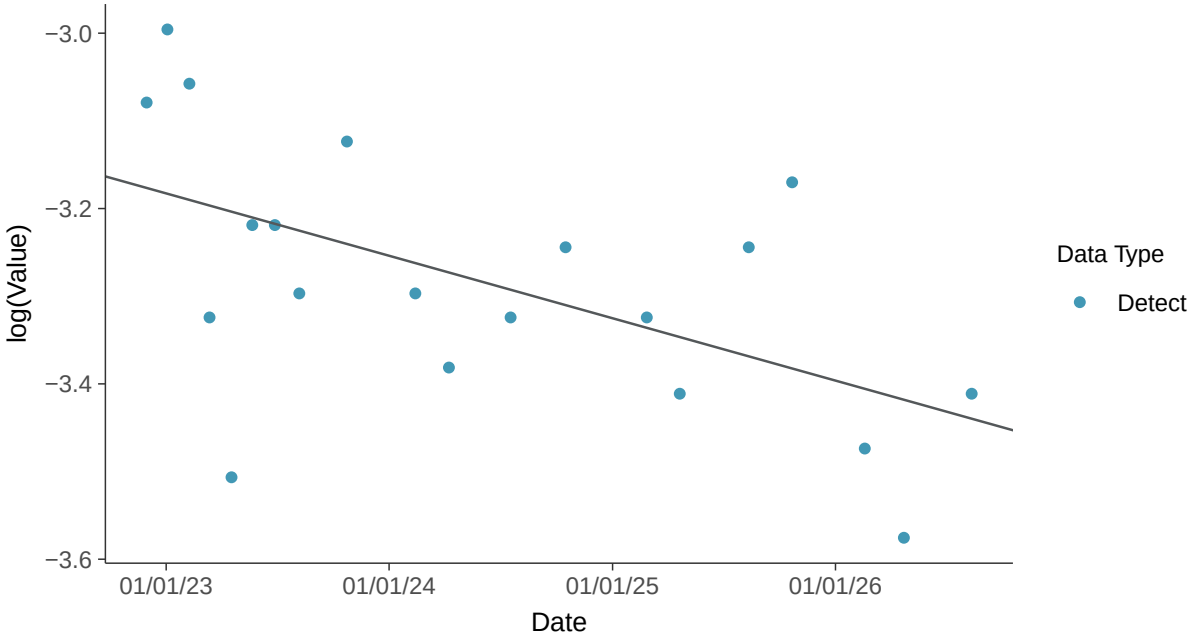
Gamma Q-Q plot

Barium, MW-19 (mg/L)



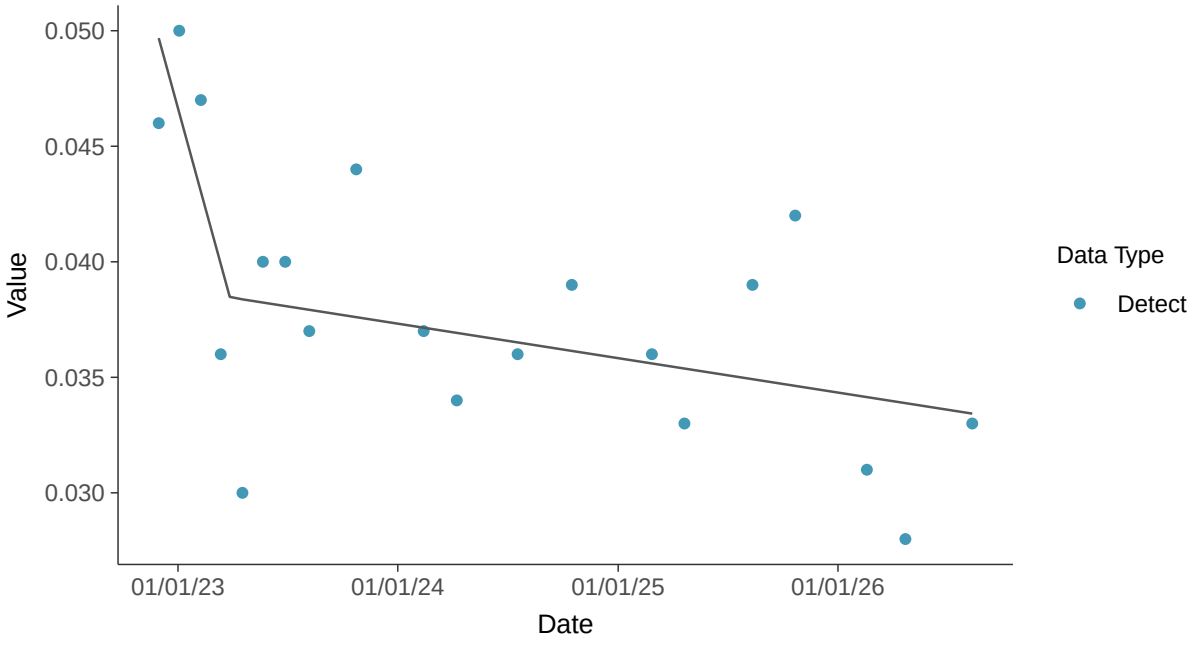
Trend Regression: Lognormal MLE

Barium, MW-19 (mg/L)



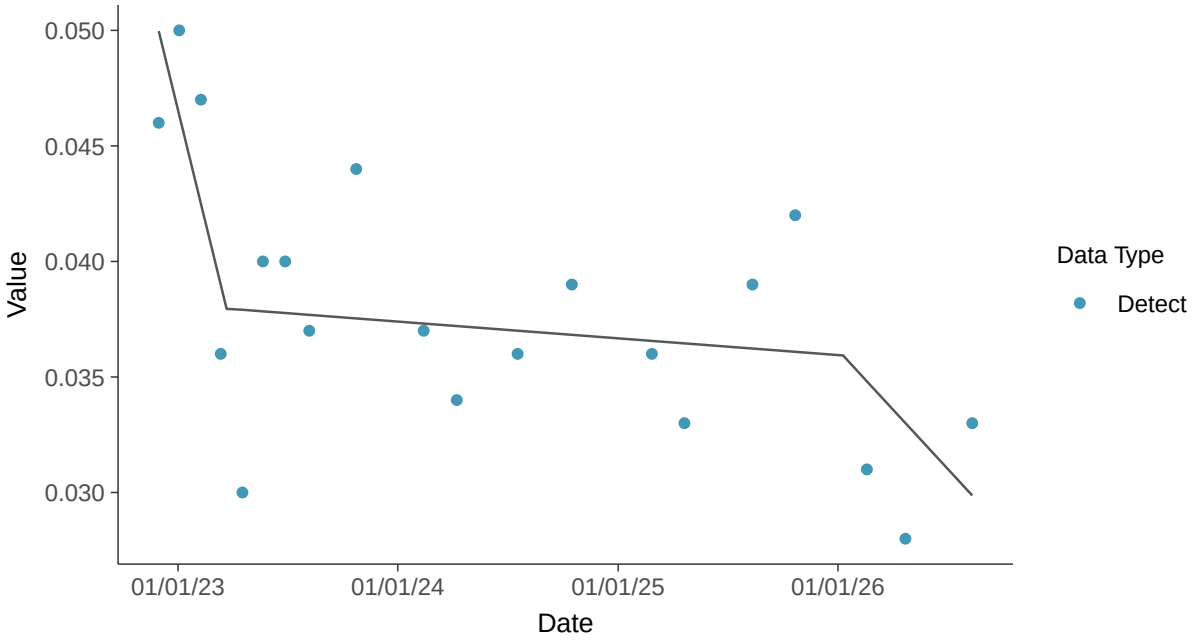
Trend Regression: Piecewise Linear-Linear

Barium, MW-19 (mg/L)



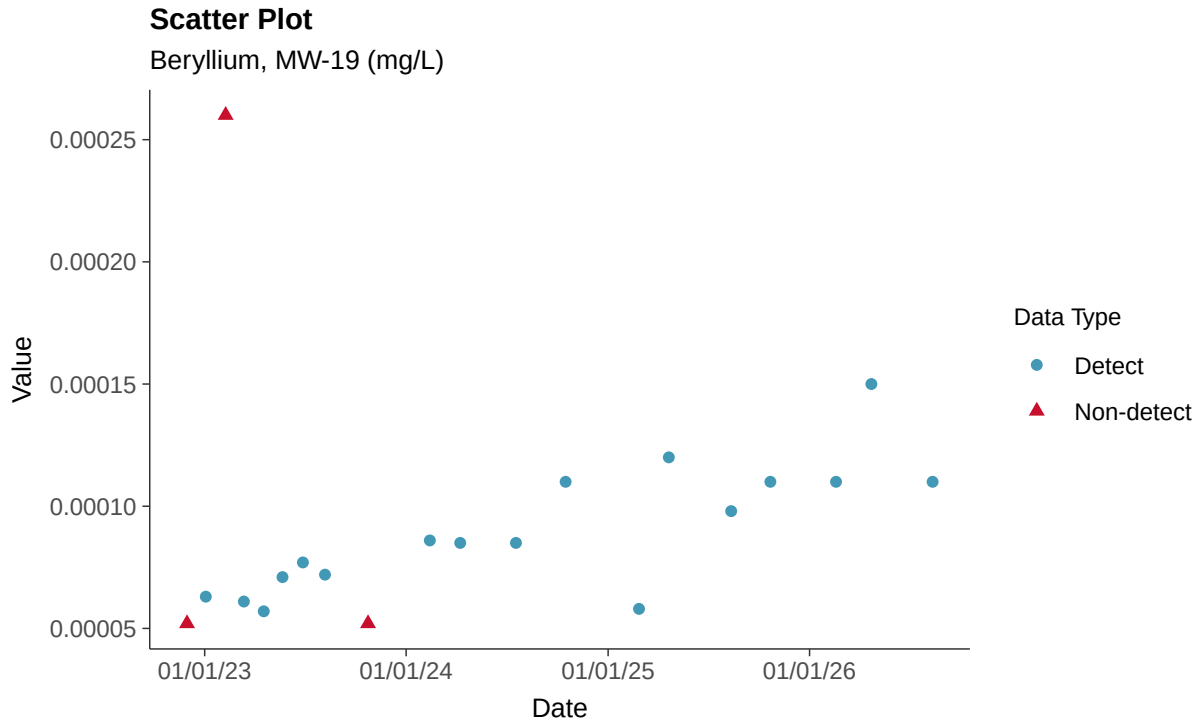
Trend Regression: Piecewise Linear-Linear-Linear

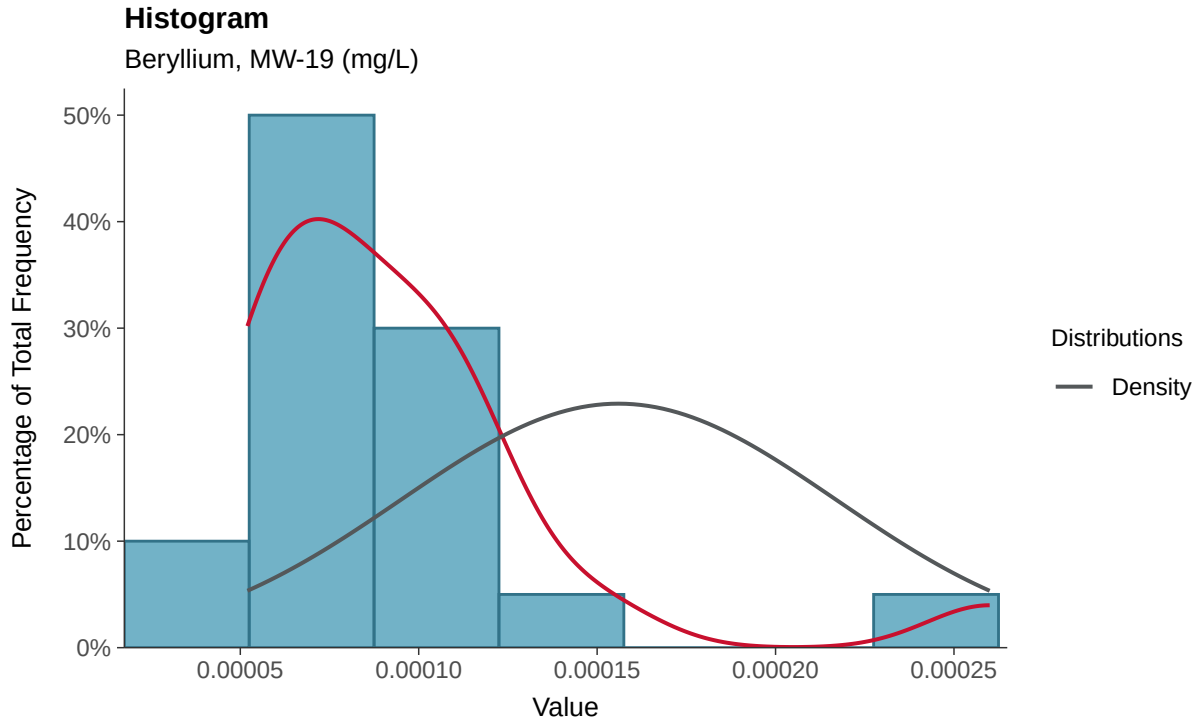
Barium, MW-19 (mg/L)



Appendix IV: Beryllium, MW-19

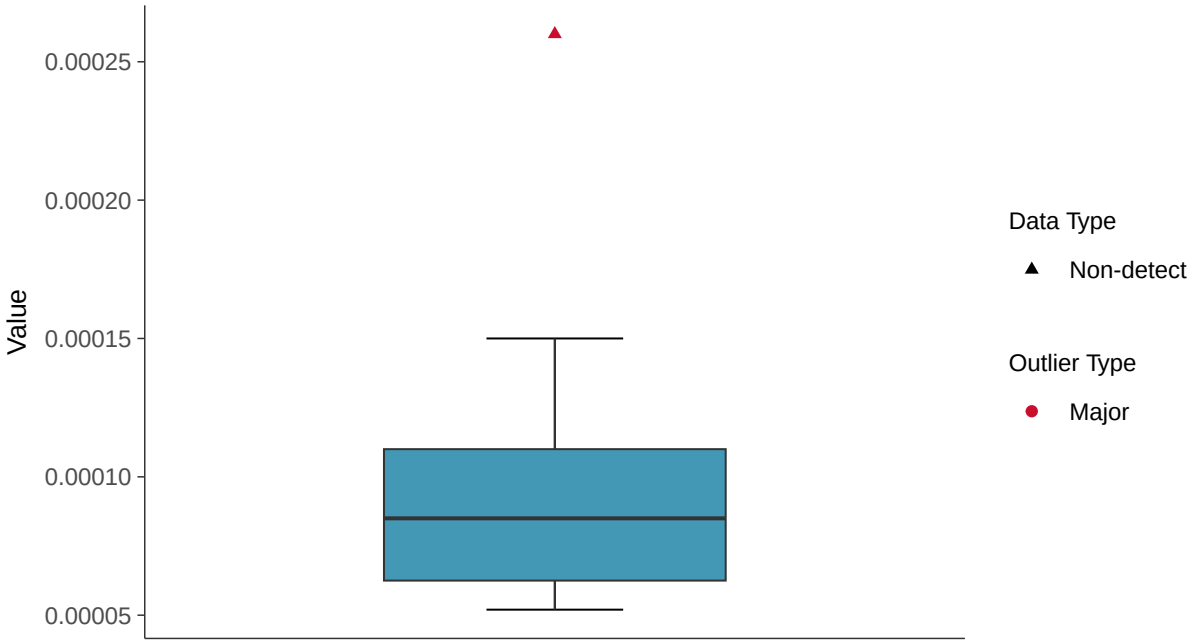
ID: 29_1_4_104





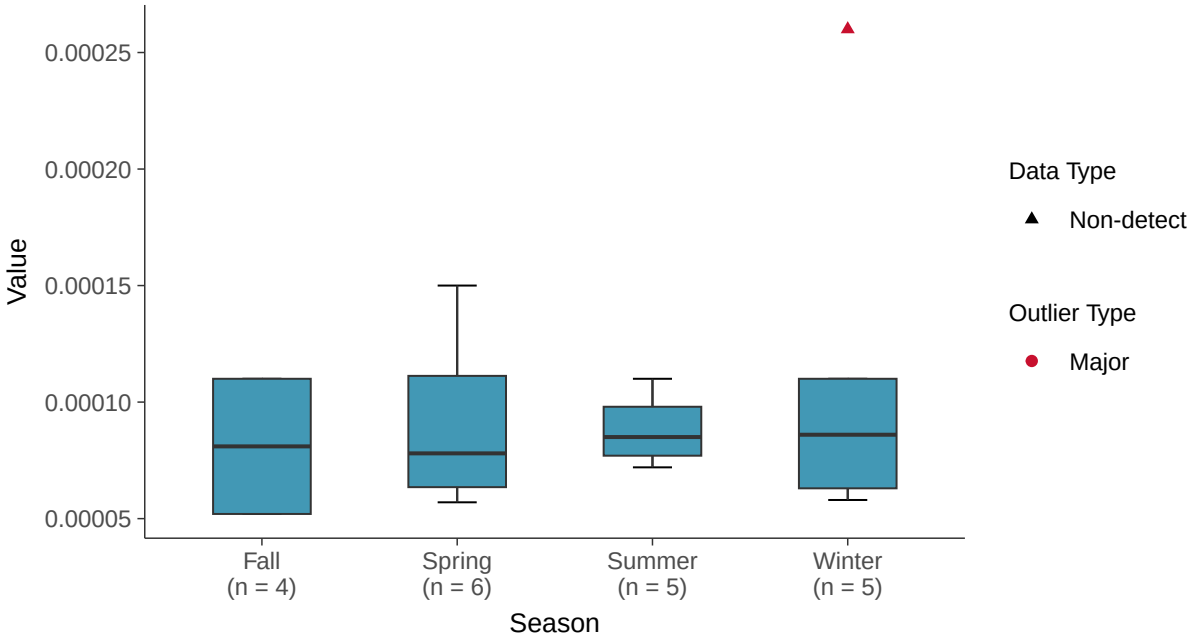
Boxplot

Beryllium, MW-19 (mg/L)



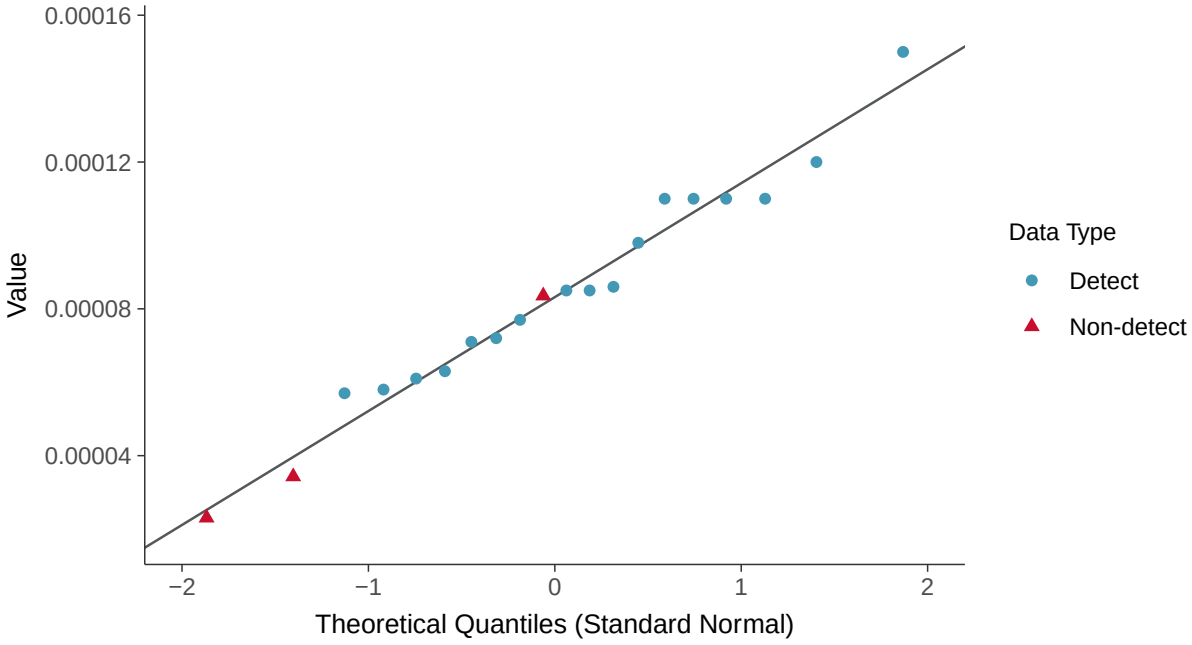
Boxplot by Season

Beryllium, MW-19 (mg/L)



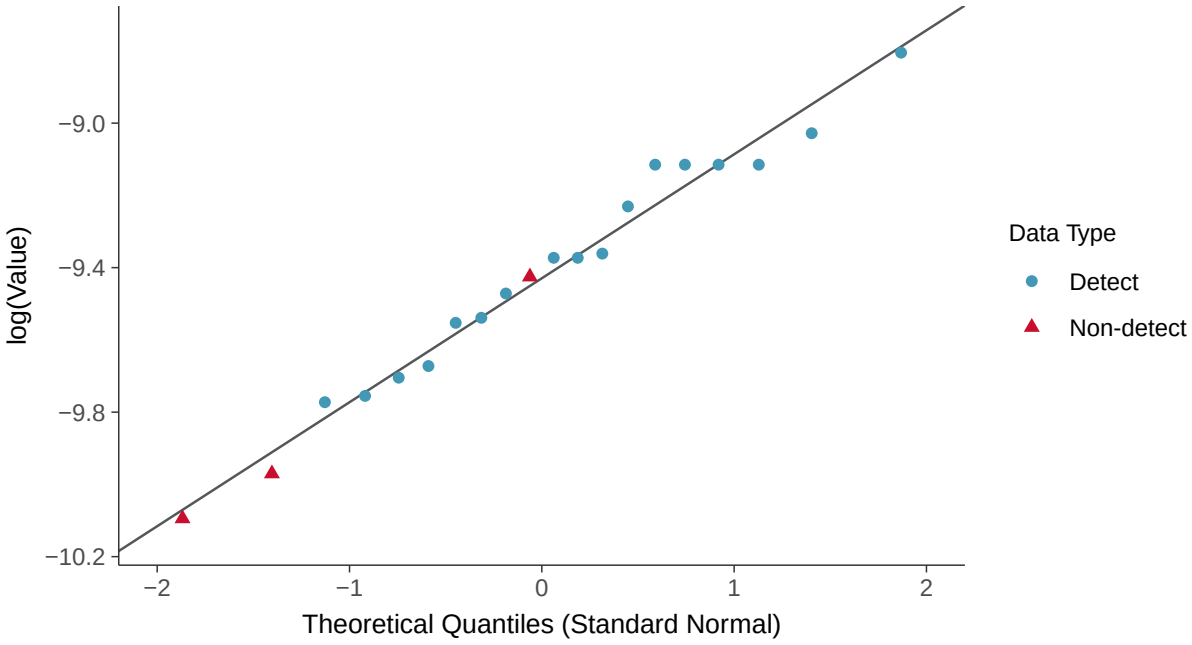
Normal Q-Q plot using ROS Imputed Estimates

Beryllium, MW-19 (mg/L)



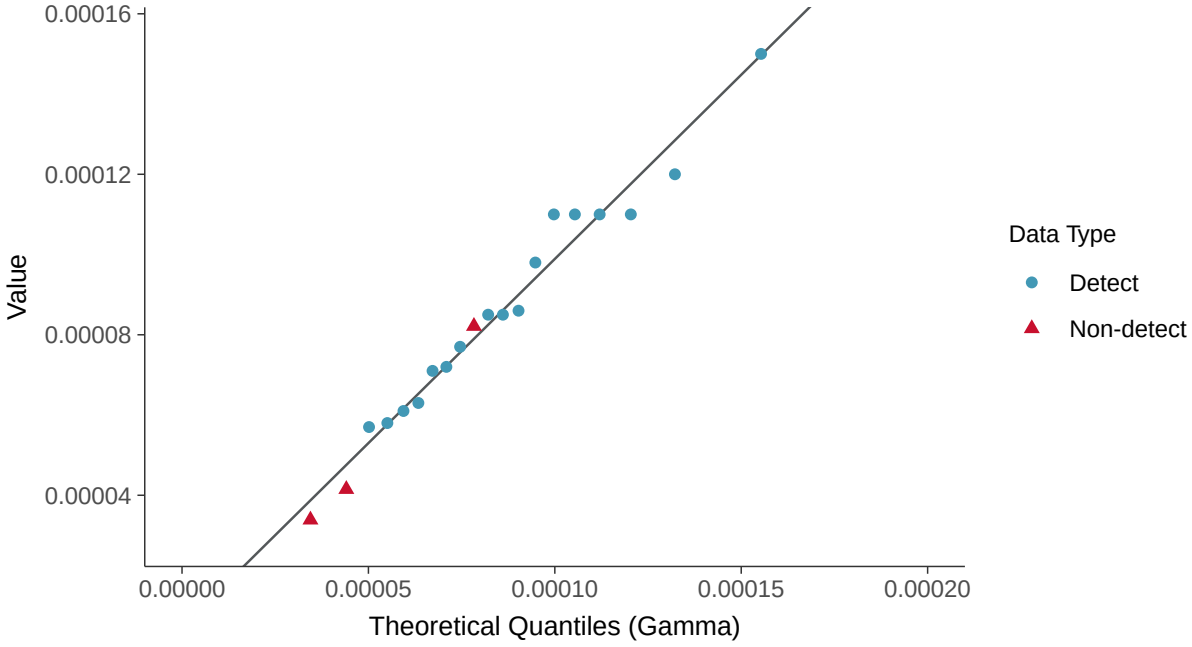
Lognormal Q-Q plot using ROS Imputed Estimates

Beryllium, MW-19 (mg/L)



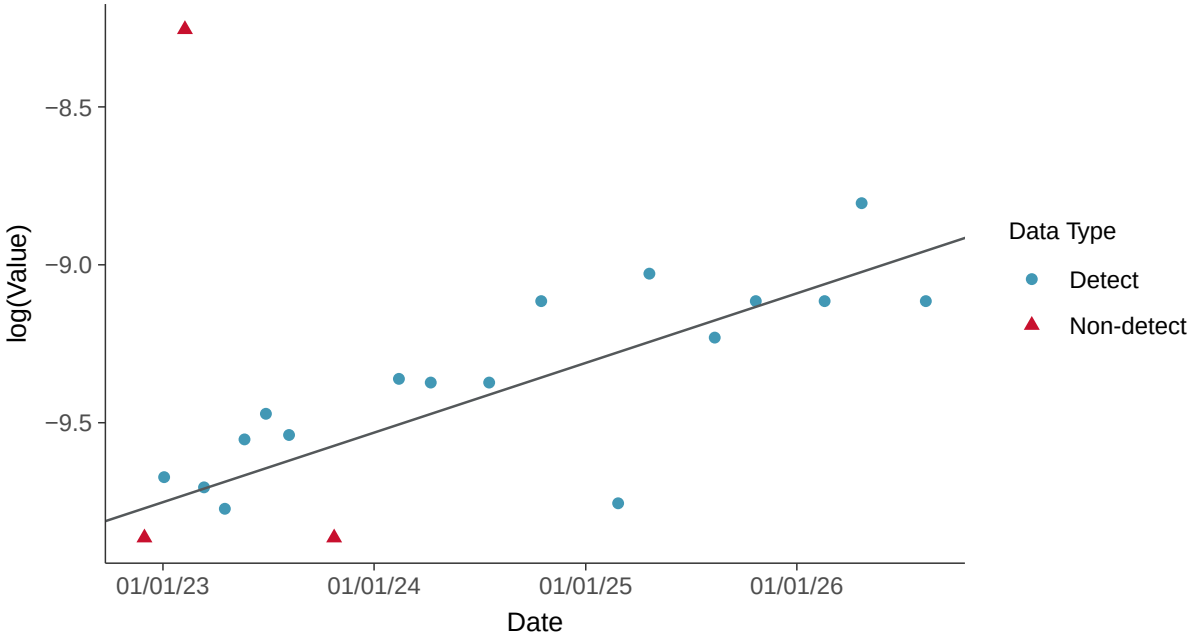
Gamma Q-Q plot using ROS Imputed Estimates

Beryllium, MW-19 (mg/L)



Trend Regression: Lognormal MLE

Beryllium, MW-19 (mg/L)

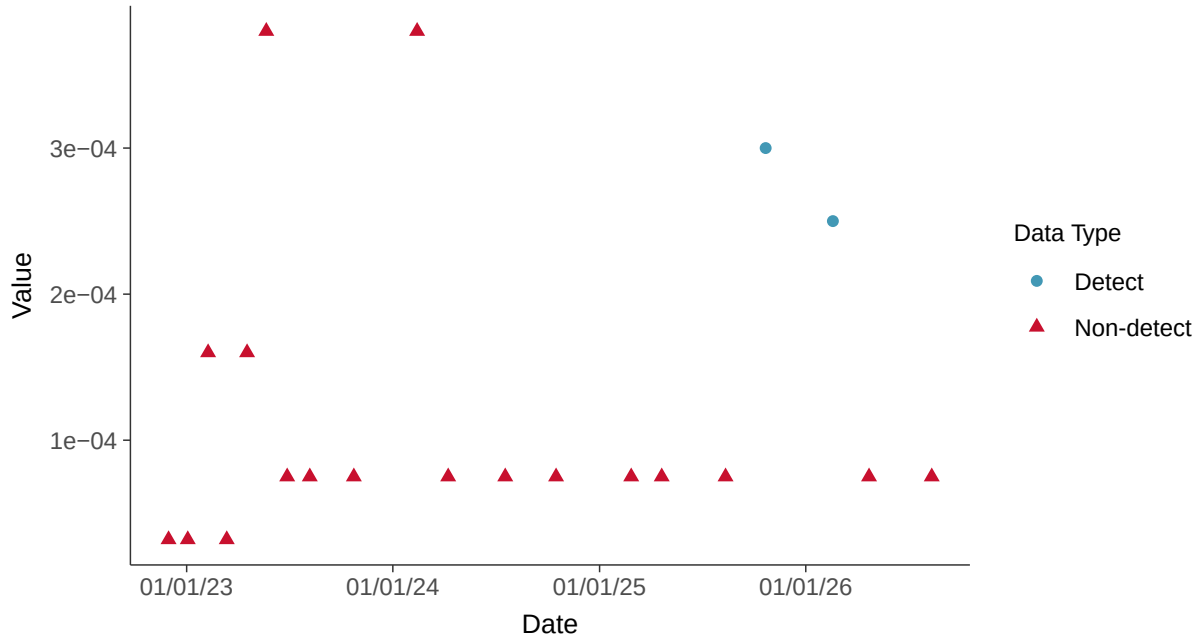


Appendix IV: Cadmium, MW-19

ID: 29_1_4_106

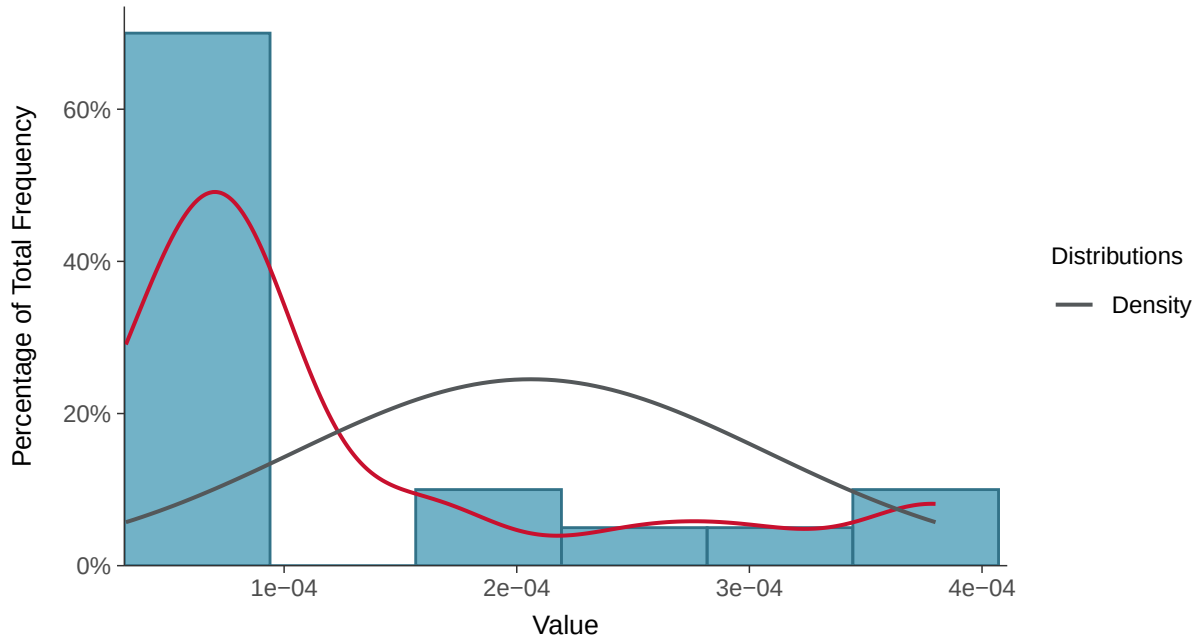
Scatter Plot

Cadmium, MW-19 (mg/L)



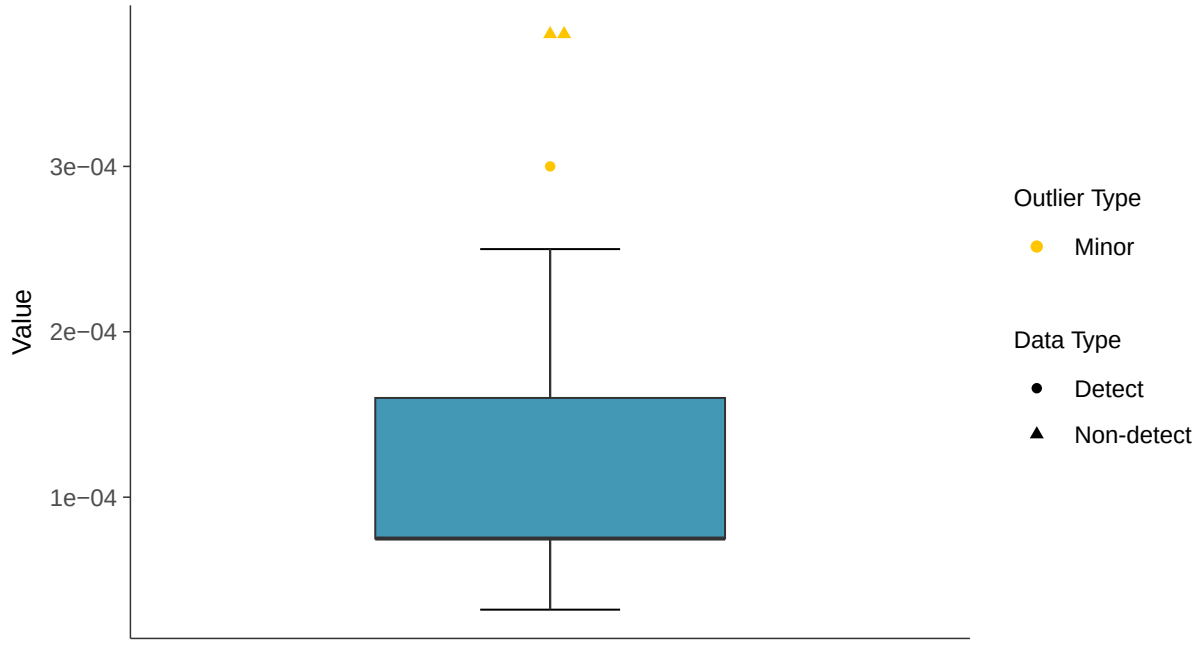
Histogram

Cadmium, MW-19 (mg/L)



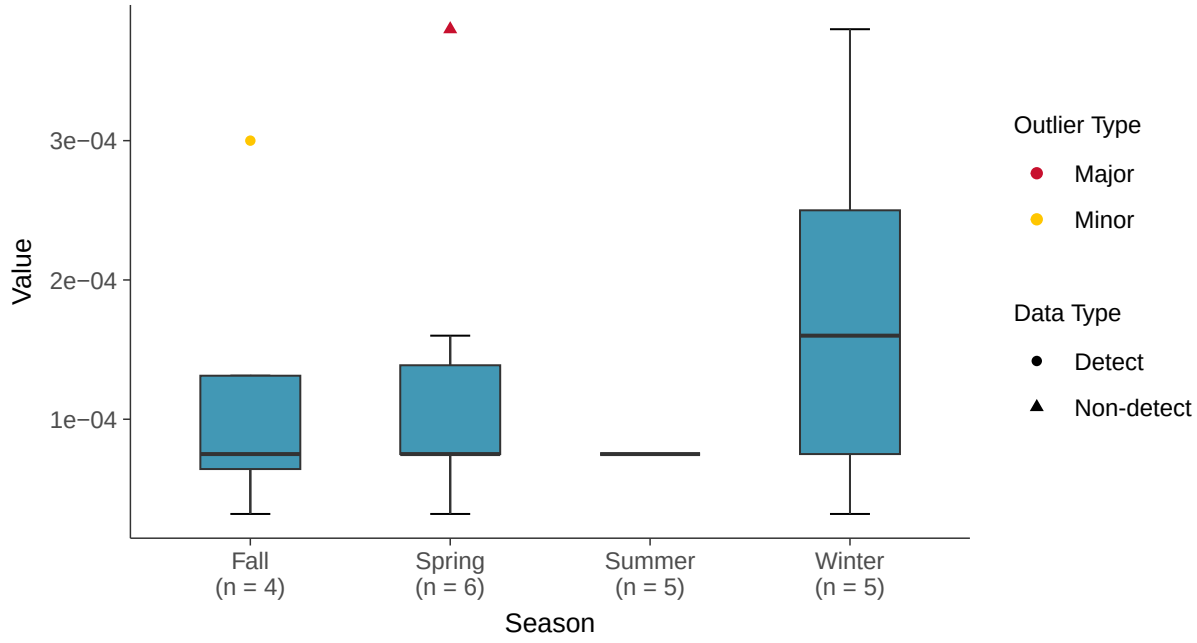
Boxplot

Cadmium, MW-19 (mg/L)



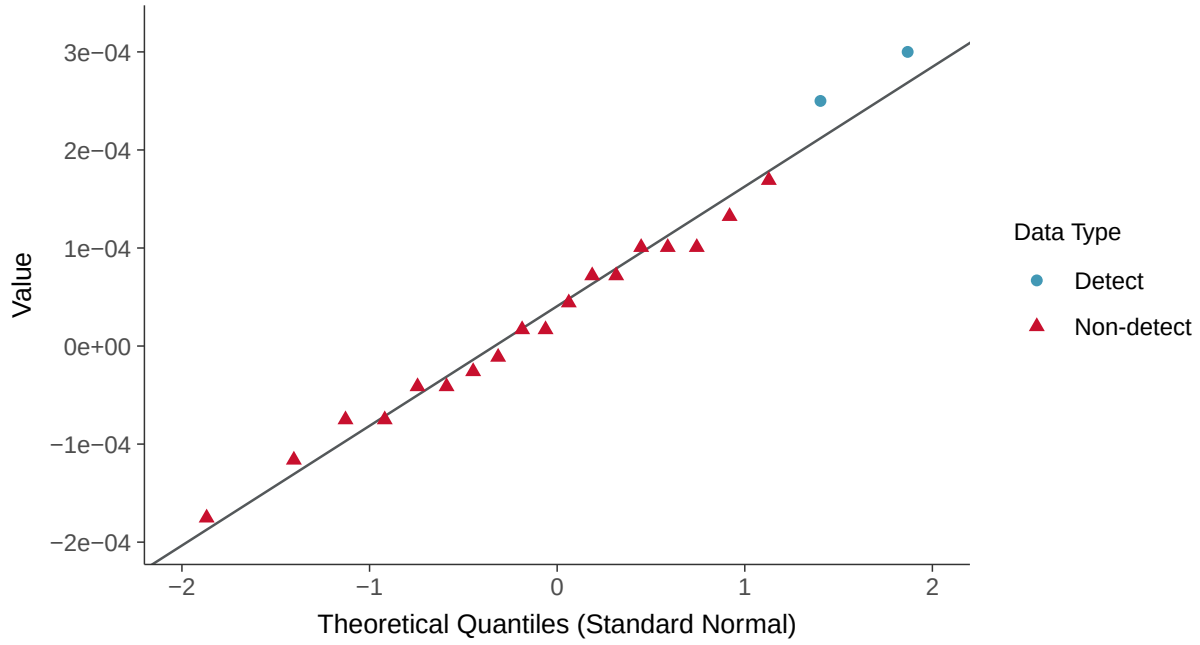
Boxplot by Season

Cadmium, MW-19 (mg/L)



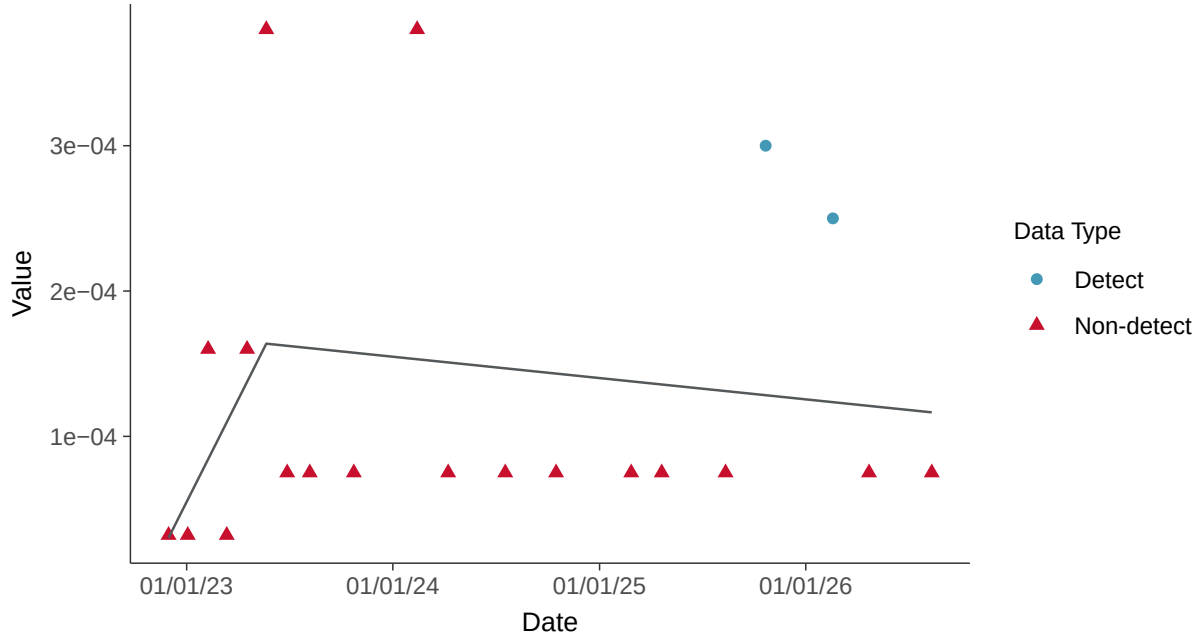
Normal Q-Q plot using ROS Imputed Estimates

Cadmium, MW-19 (mg/L)



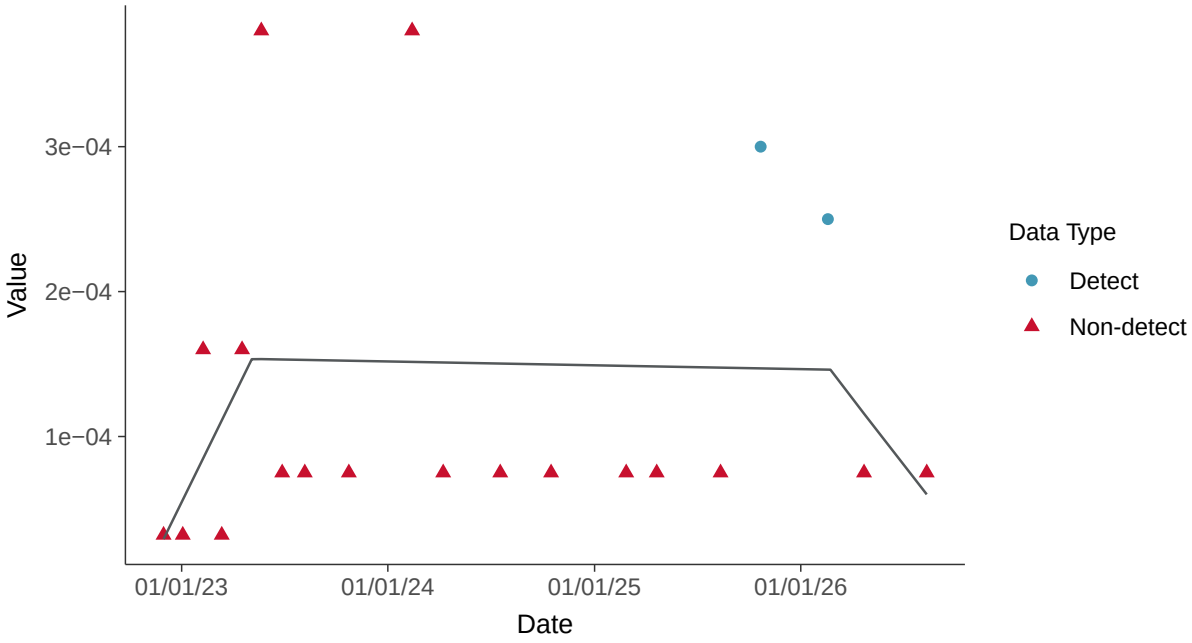
Trend Regression: Piecewise Linear-Linear

Cadmium, MW-19 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Cadmium, MW-19 (mg/L)

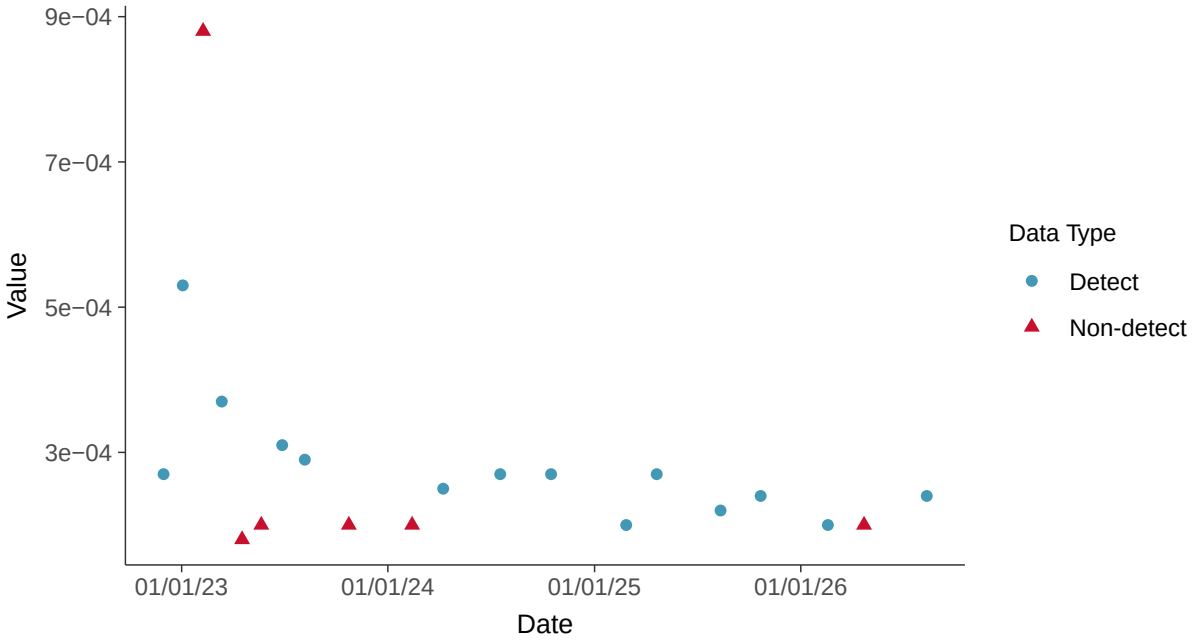


Appendix IV: Chromium, Total, MW-19

ID: 29_1_4_109

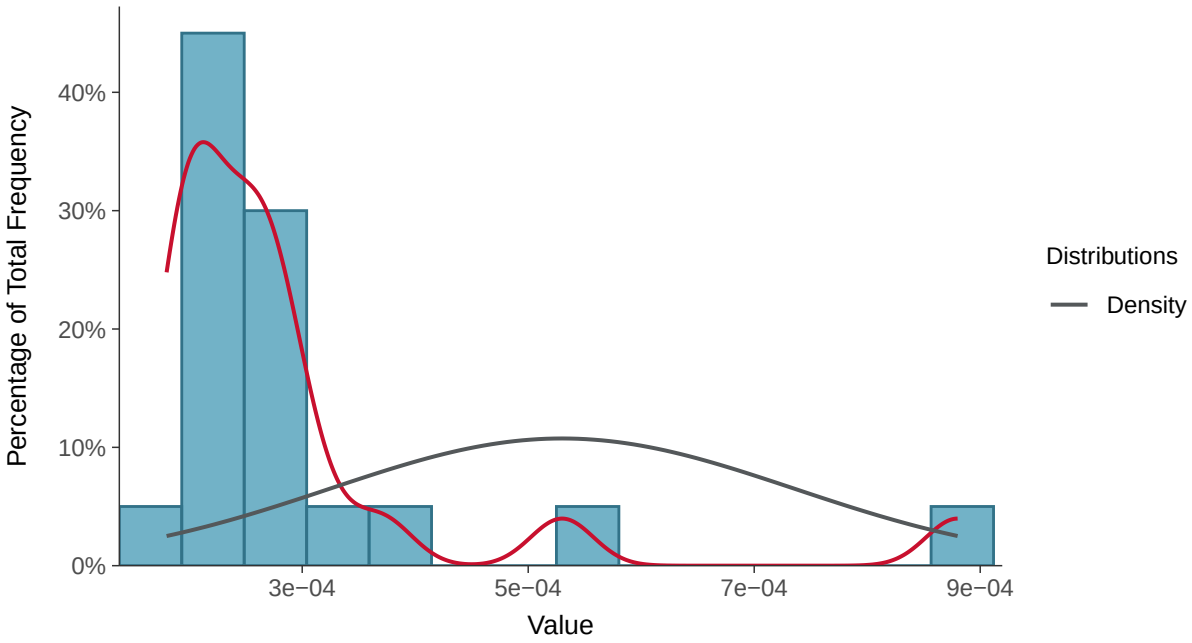
Scatter Plot

Chromium, Total, MW-19 (mg/L)



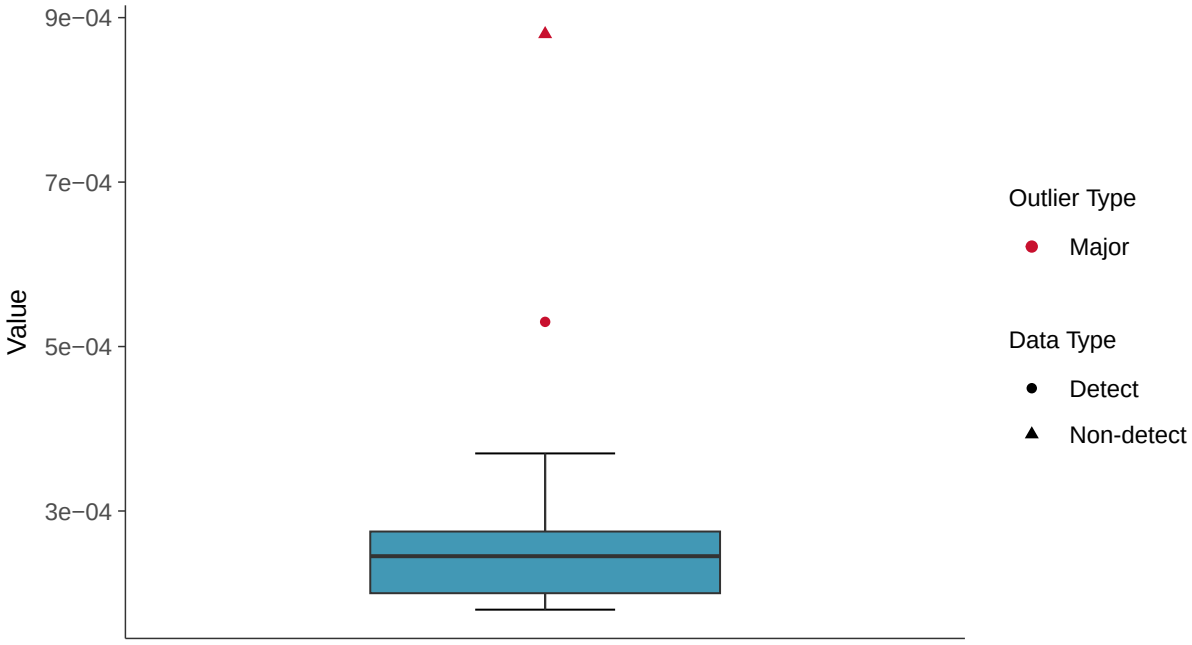
Histogram

Chromium, Total, MW-19 (mg/L)



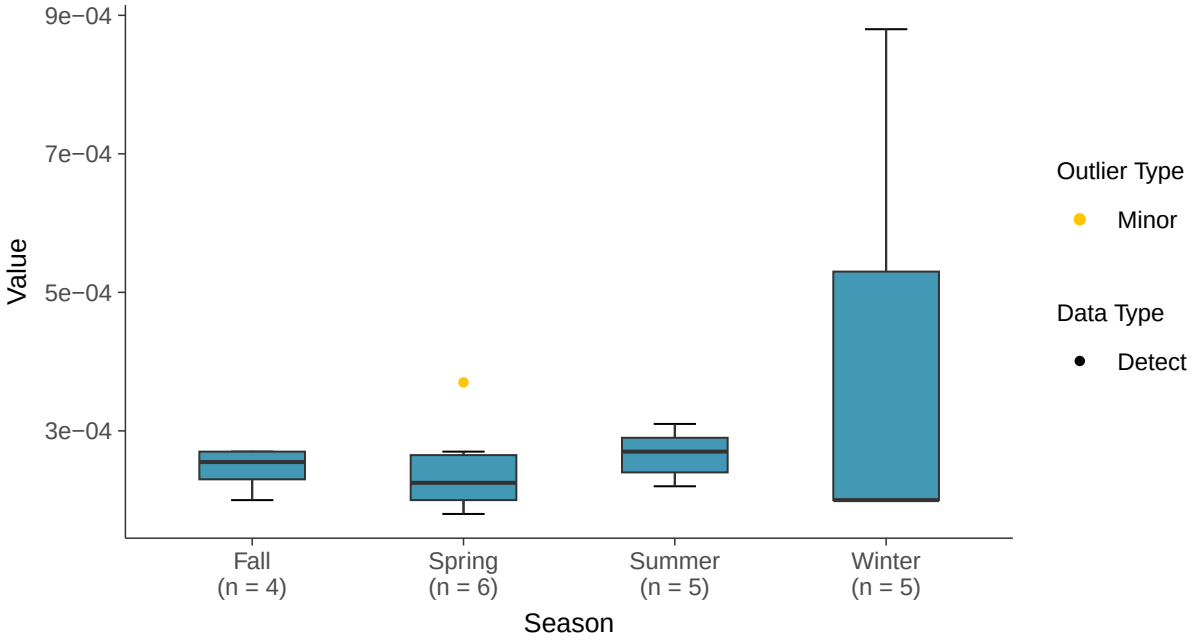
Boxplot

Chromium, Total, MW-19 (mg/L)



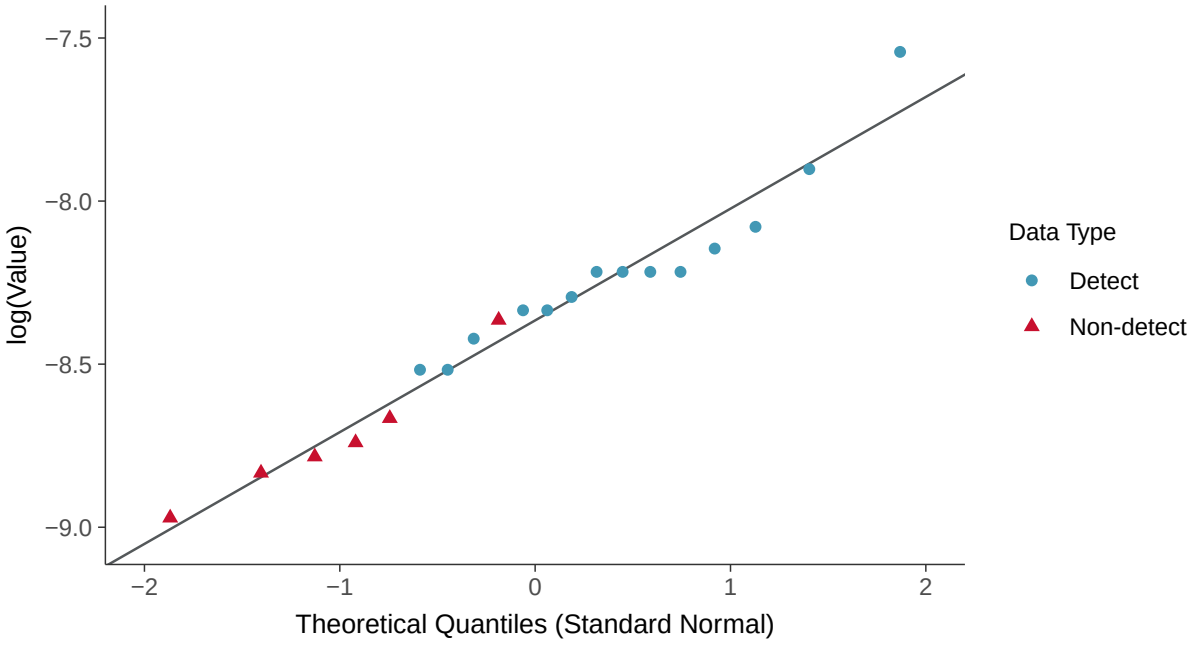
Boxplot by Season

Chromium, Total, MW-19 (mg/L)



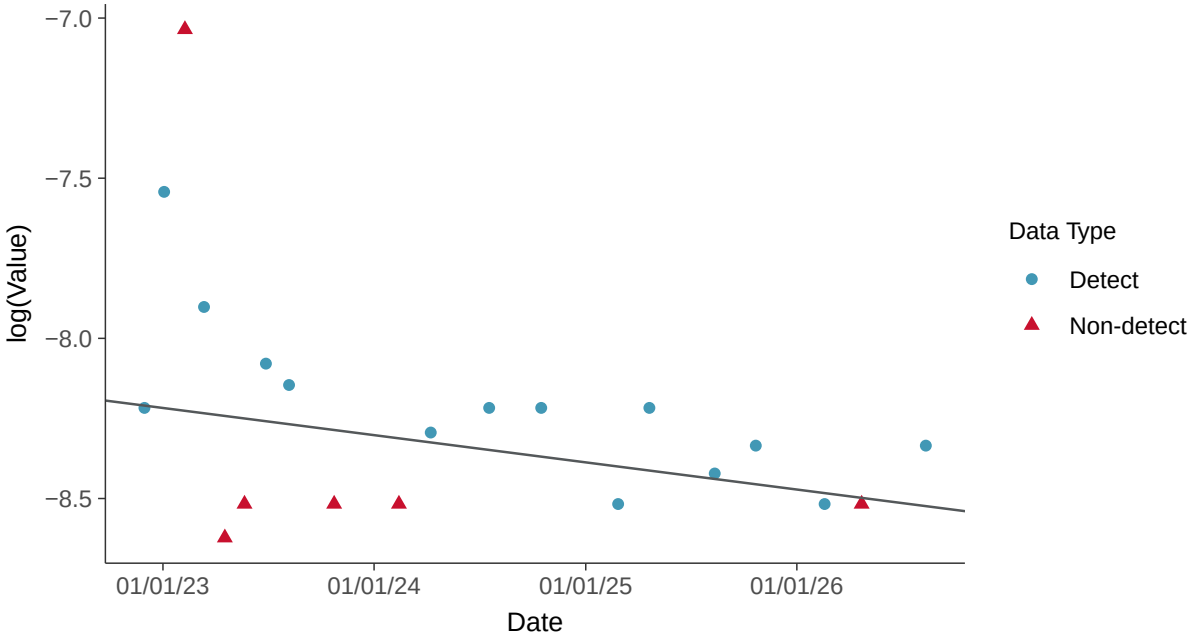
Lognormal Q-Q plot using ROS Imputed Estimates

Chromium, Total, MW-19 (mg/L)



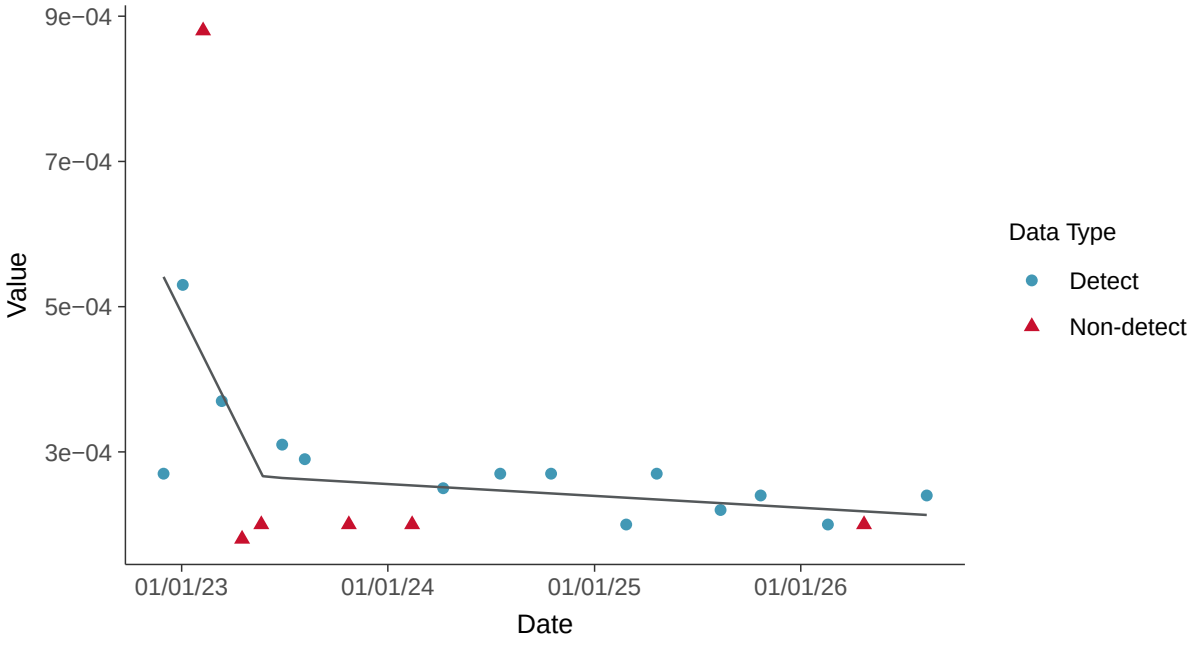
Trend Regression: Lognormal MLE

Chromium, Total, MW-19 (mg/L)



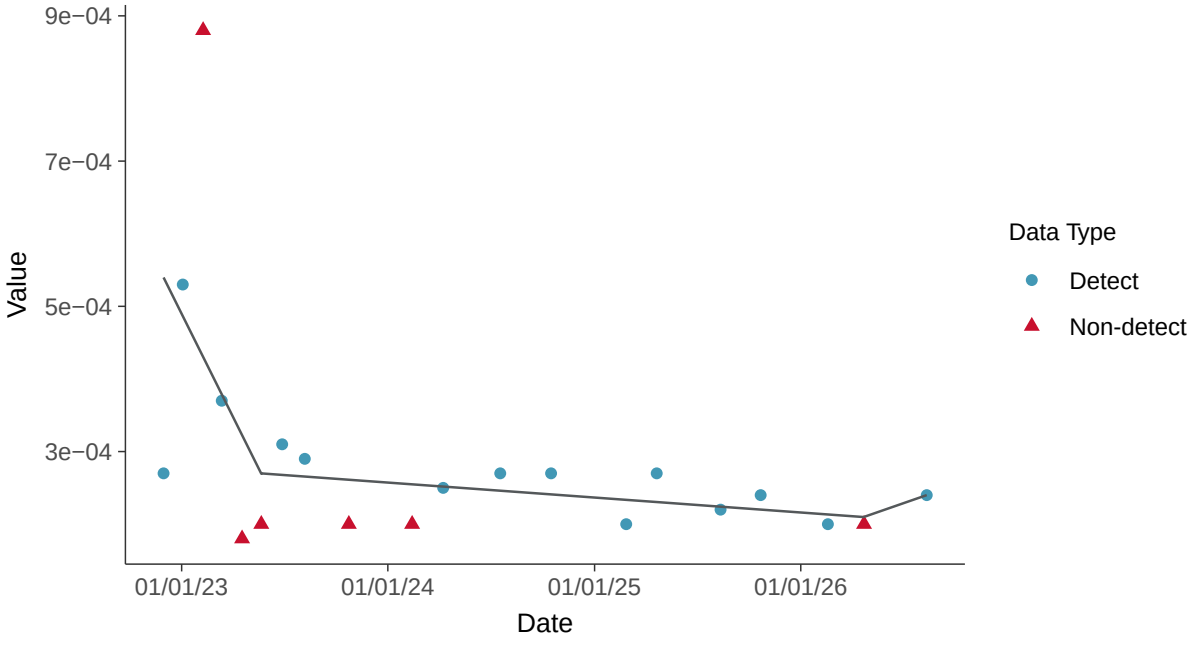
Trend Regression: Piecewise Linear-Linear

Chromium, Total, MW-19 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Chromium, Total, MW-19 (mg/L)

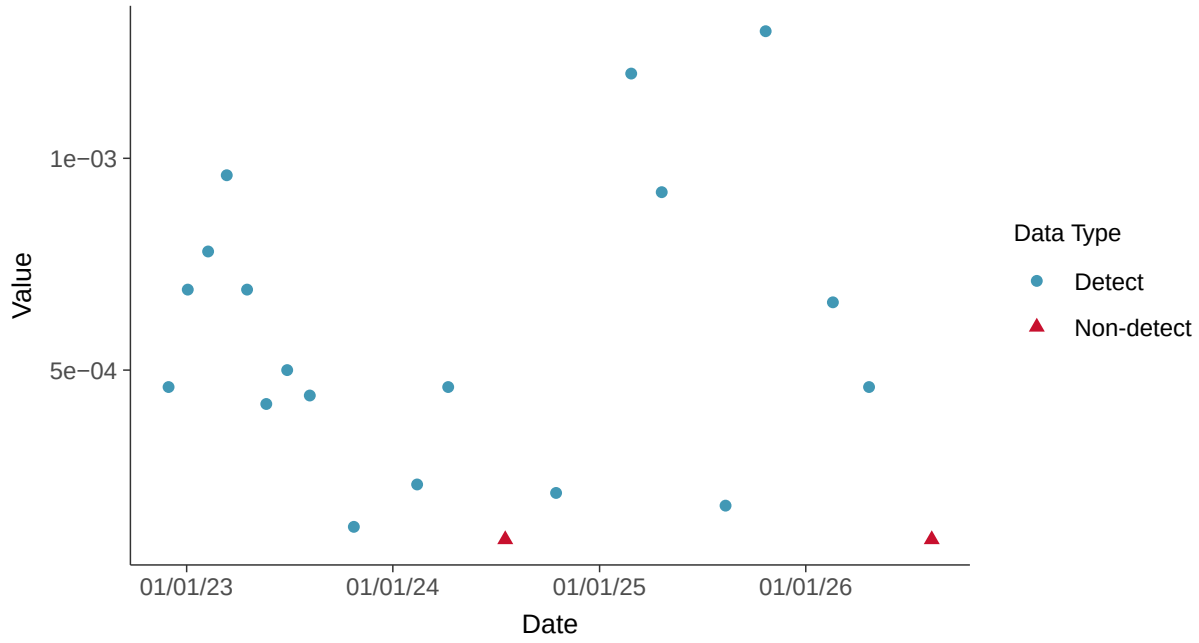


Appendix IV: Cobalt, MW-19

ID: 29_1_4_110

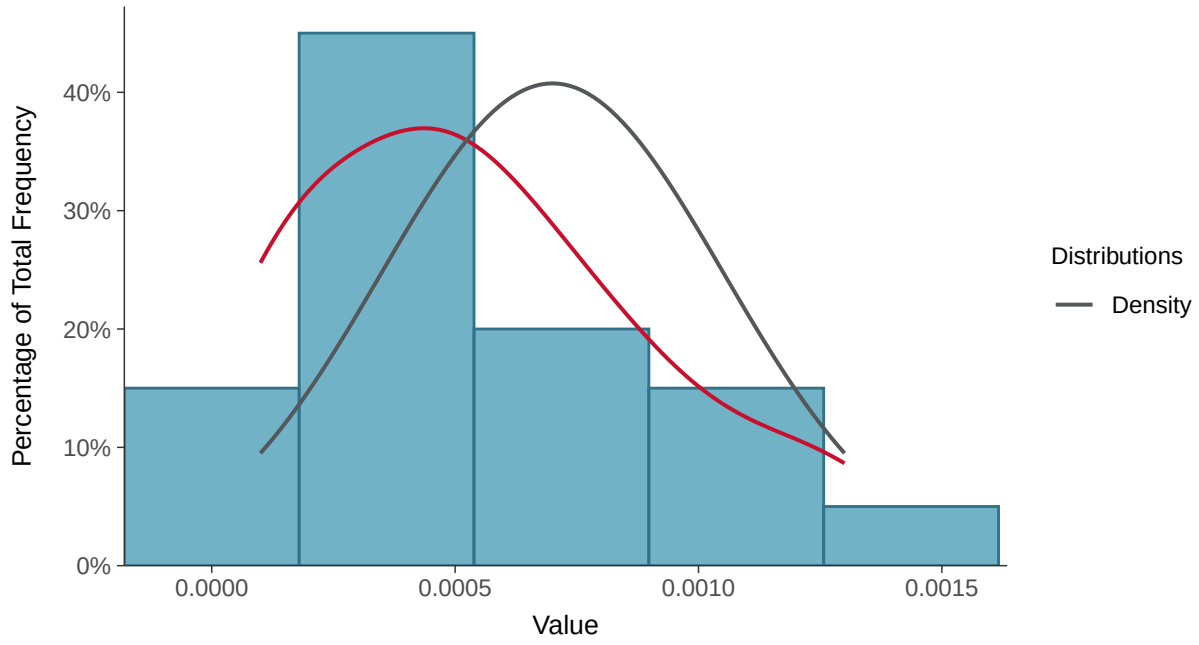
Scatter Plot

Cobalt, MW-19 (mg/L)



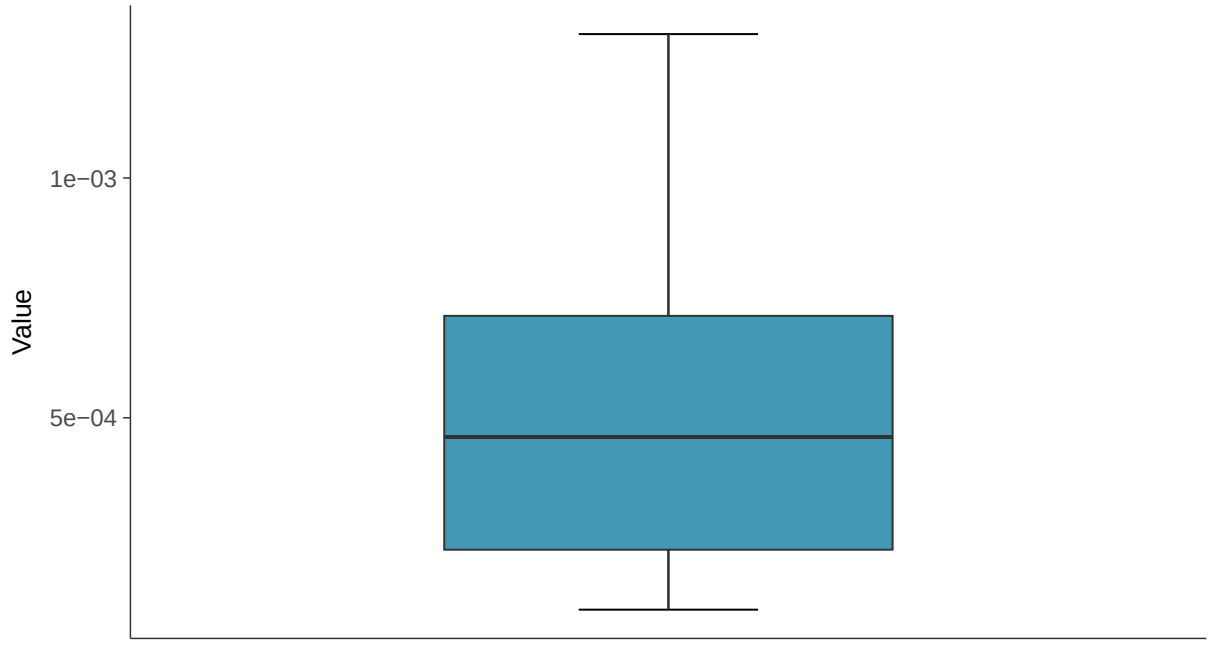
Histogram

Cobalt, MW-19 (mg/L)



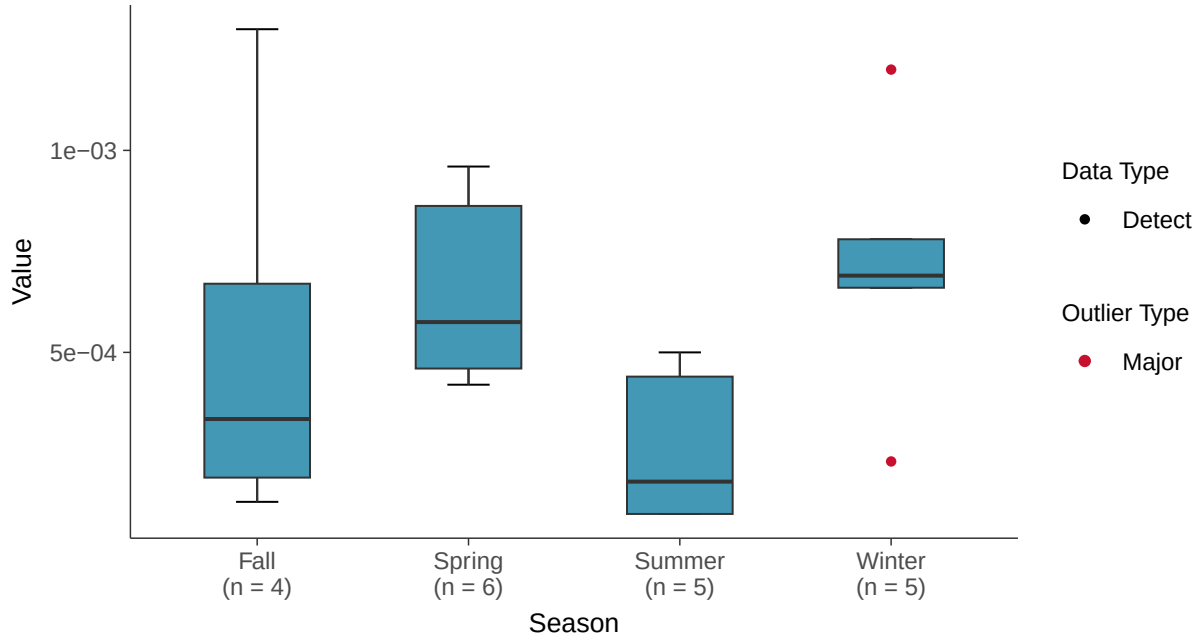
Boxplot

Cobalt, MW-19 (mg/L)



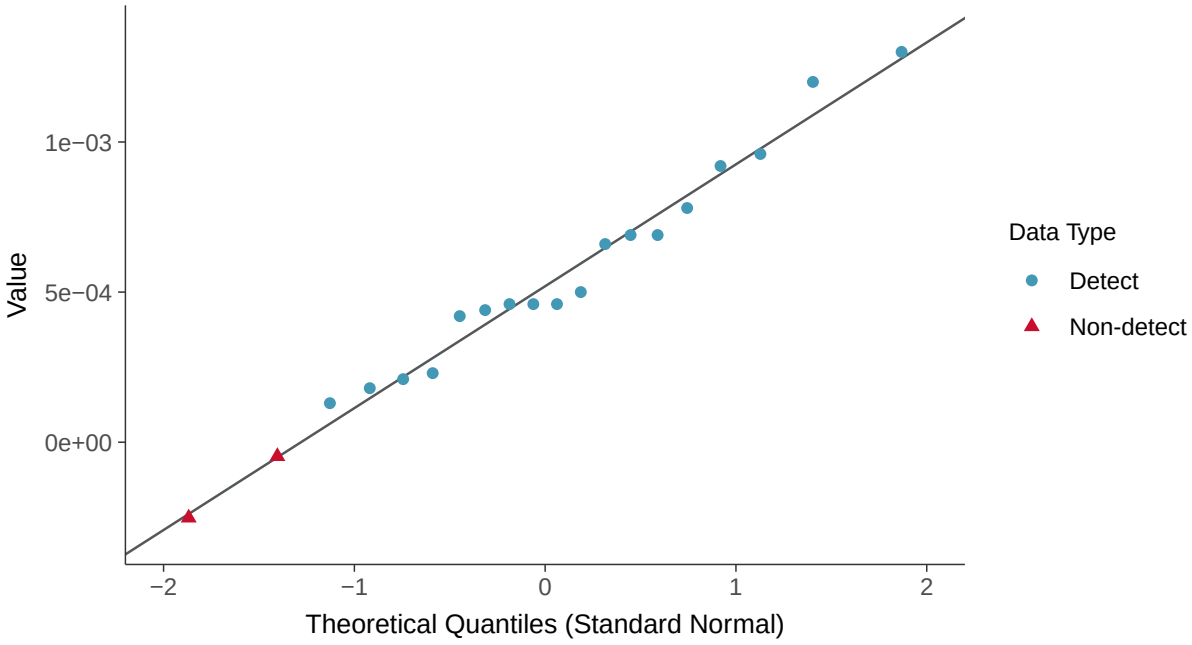
Boxplot by Season

Cobalt, MW-19 (mg/L)



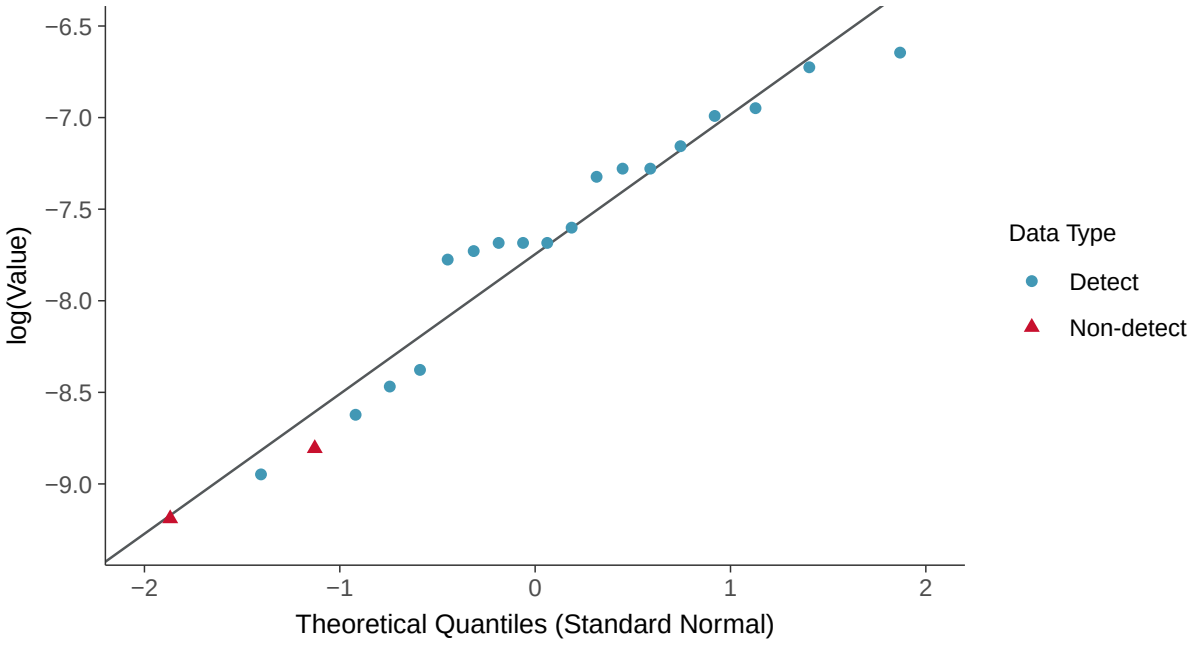
Normal Q-Q plot using ROS Imputed Estimates

Cobalt, MW-19 (mg/L)



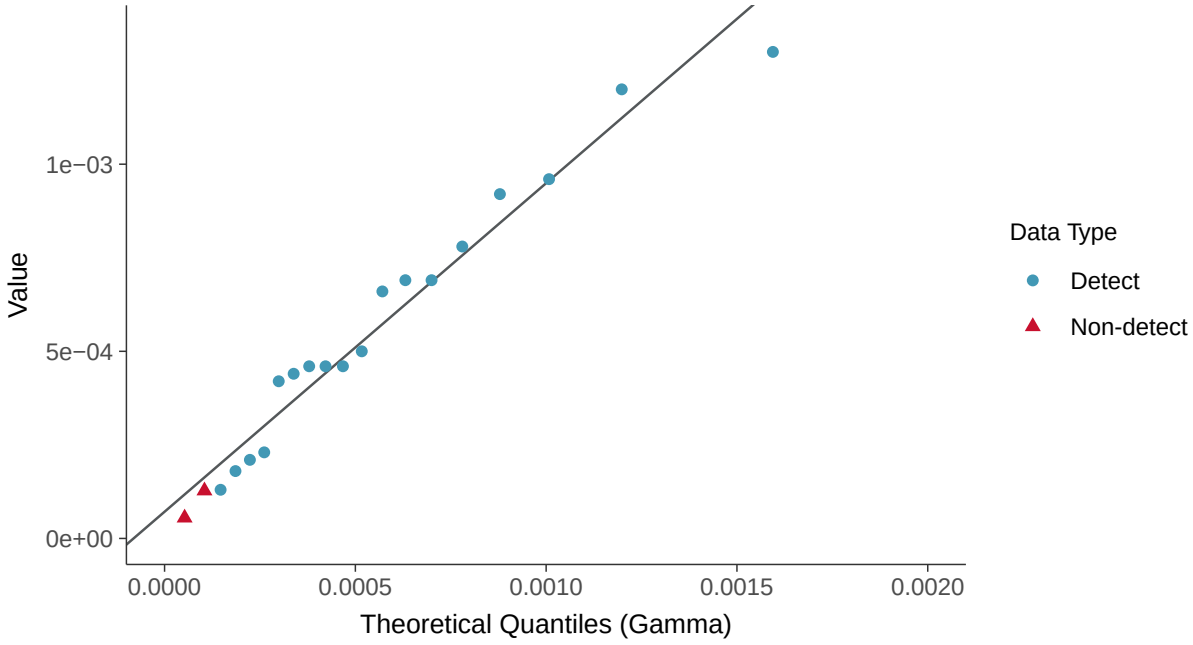
Lognormal Q-Q plot using ROS Imputed Estimates

Cobalt, MW-19 (mg/L)



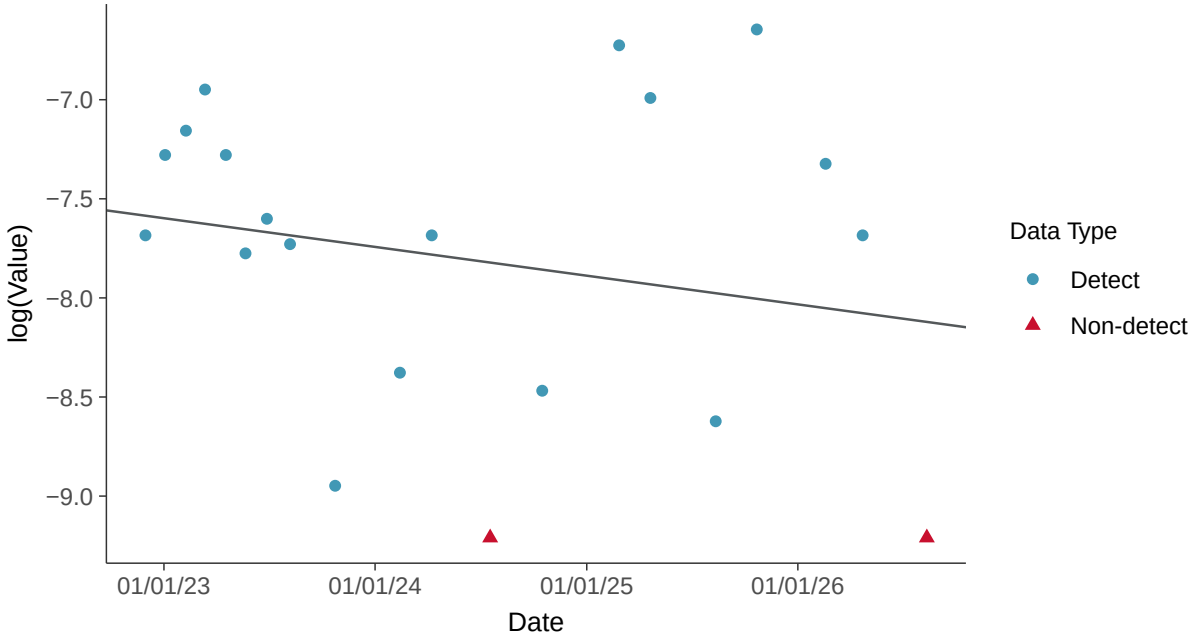
Gamma Q-Q plot using ROS Imputed Estimates

Cobalt, MW-19 (mg/L)



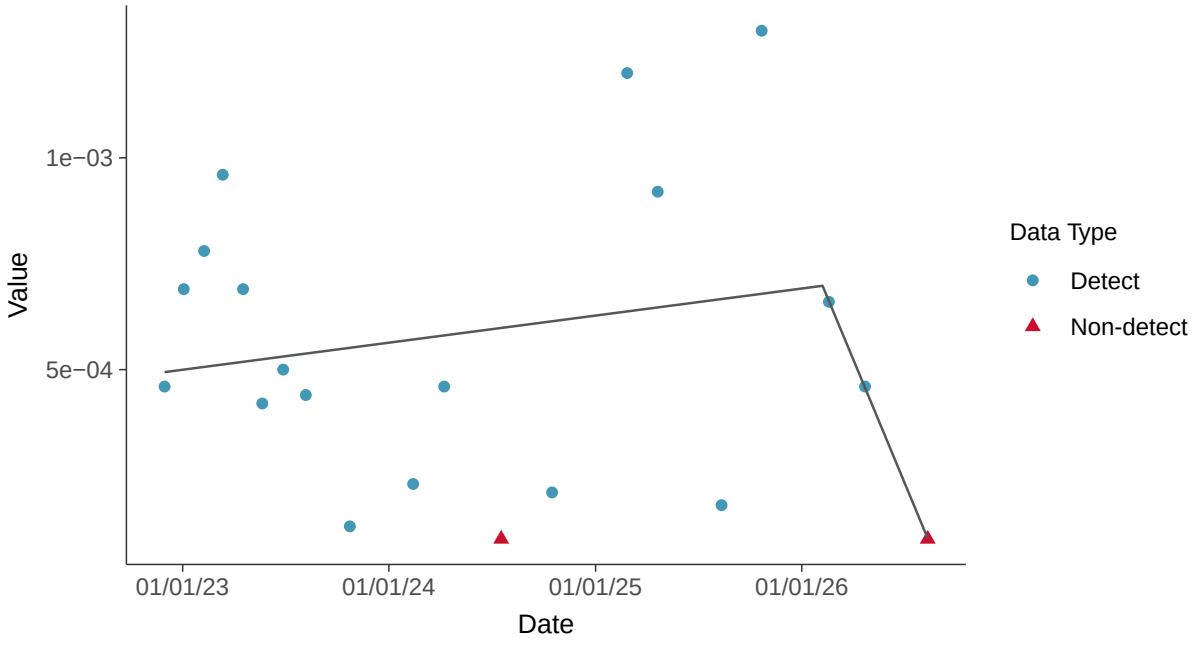
Trend Regression: Lognormal MLE

Cobalt, MW-19 (mg/L)



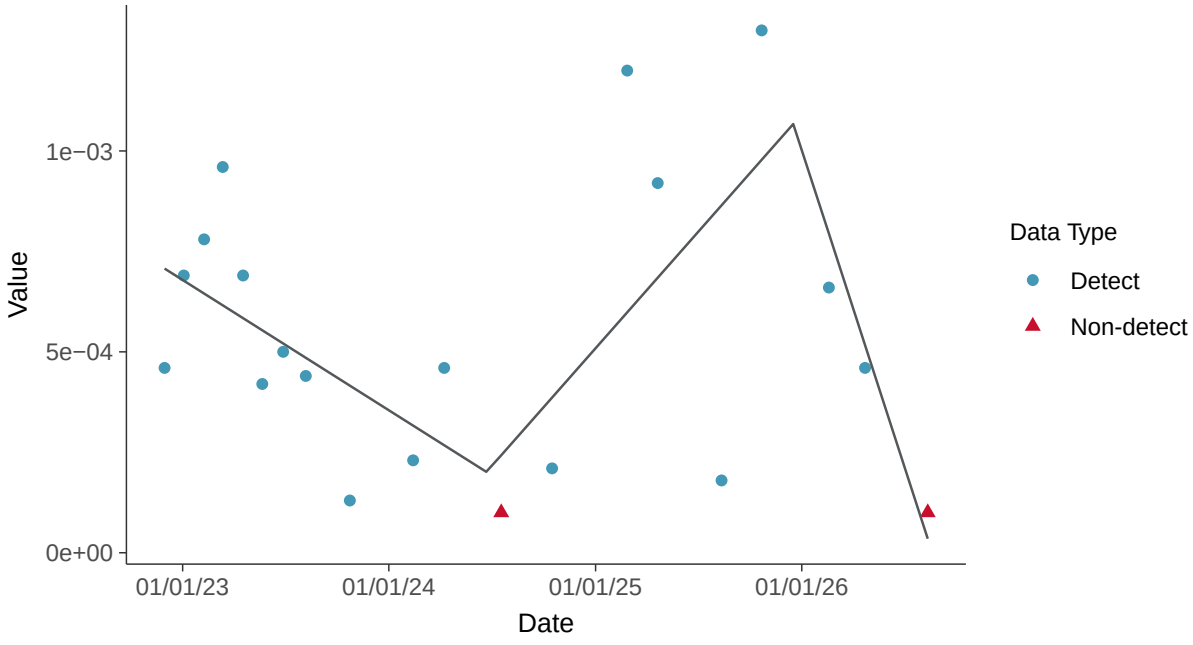
Trend Regression: Piecewise Linear-Linear

Cobalt, MW-19 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Cobalt, MW-19 (mg/L)

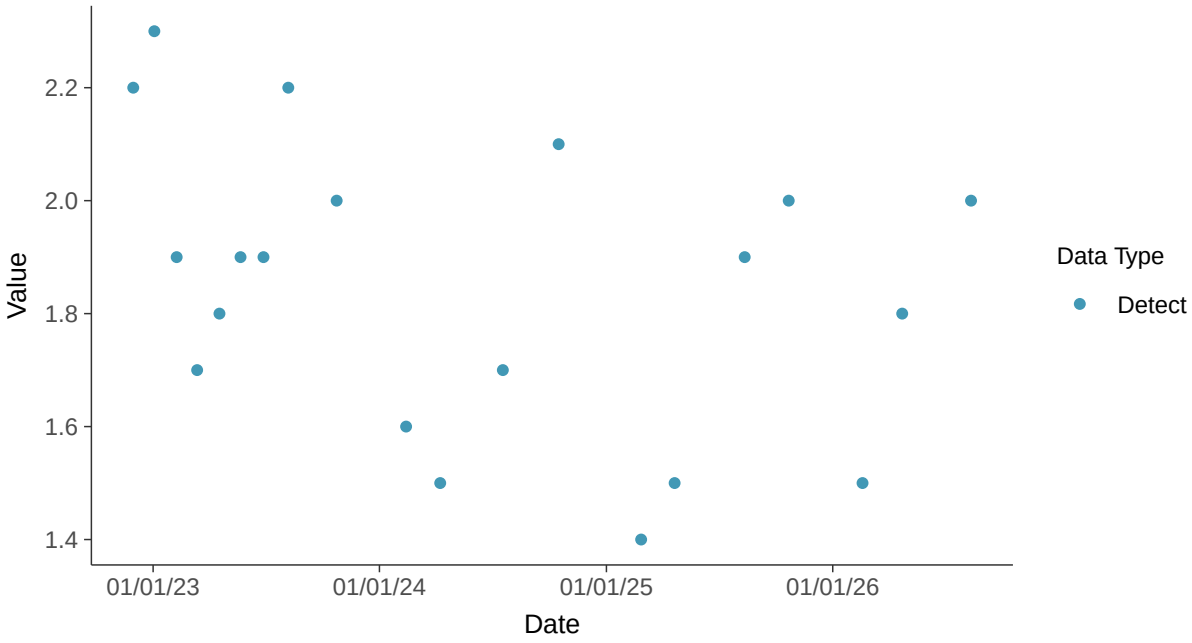


Appendix IV: Fluoride (App IV), MW-19

ID: 29_1_4_113

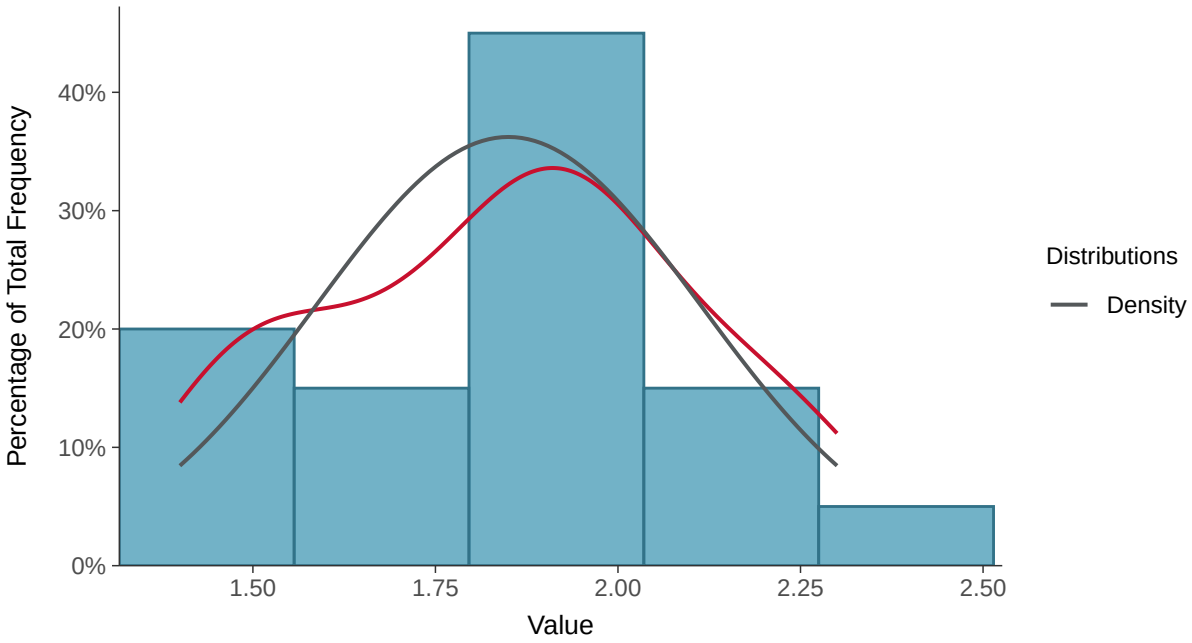
Scatter Plot

Fluoride (App IV), MW-19 (mg/L)



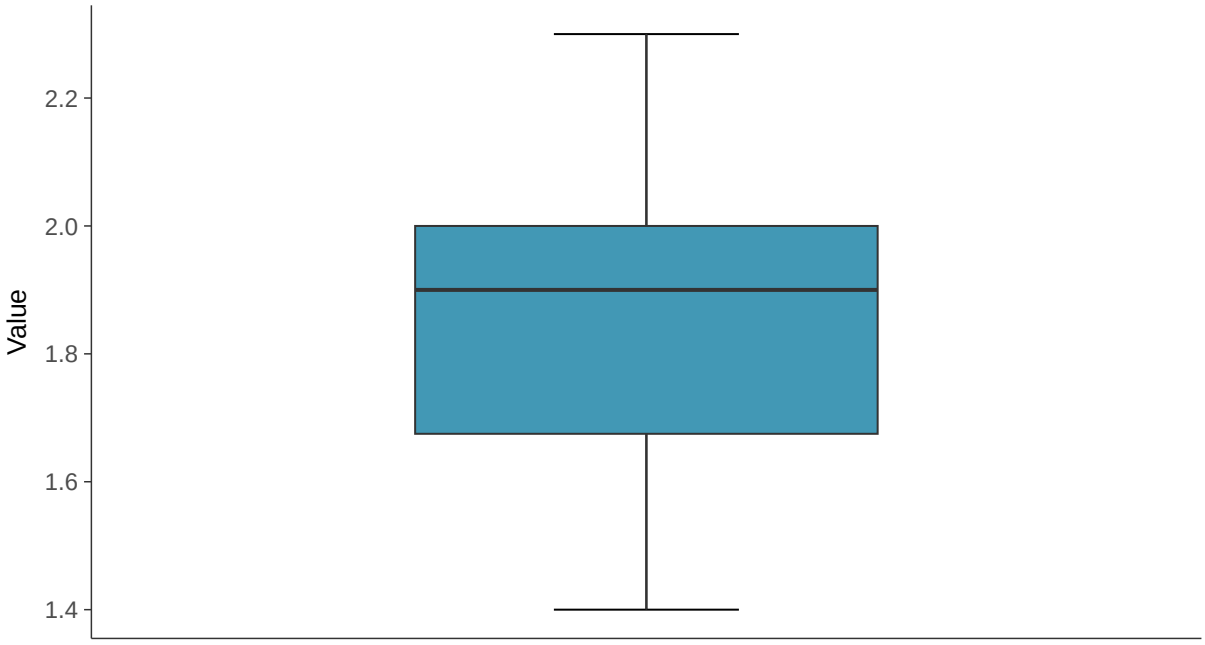
Histogram

Fluoride (App IV), MW-19 (mg/L)



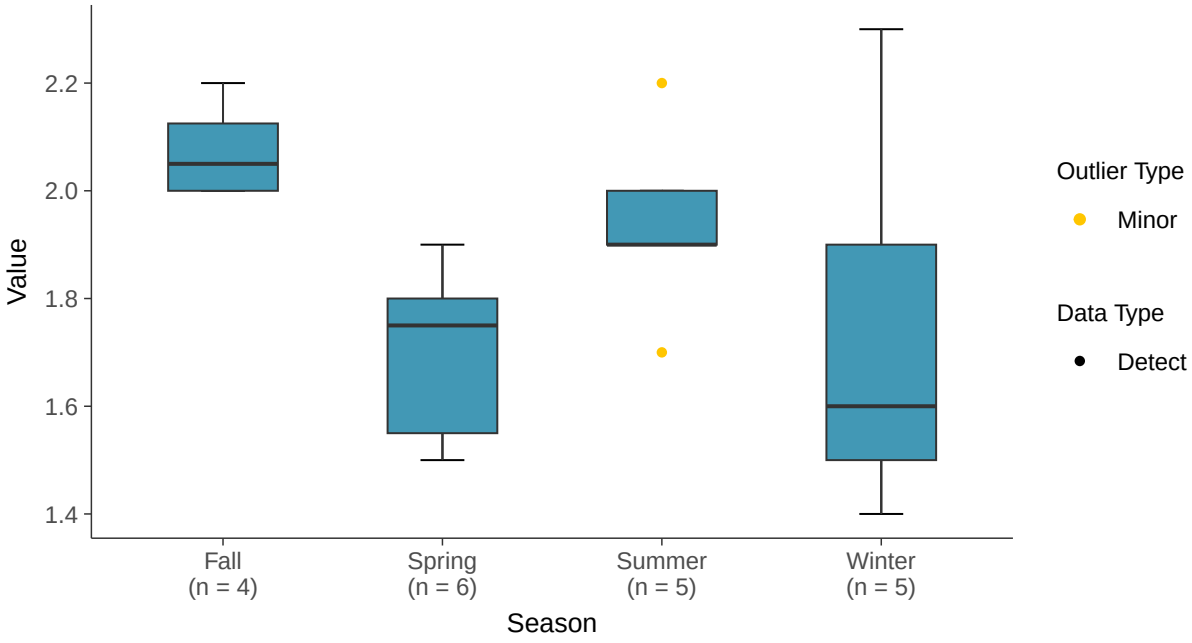
Boxplot

Fluoride (App IV), MW-19 (mg/L)



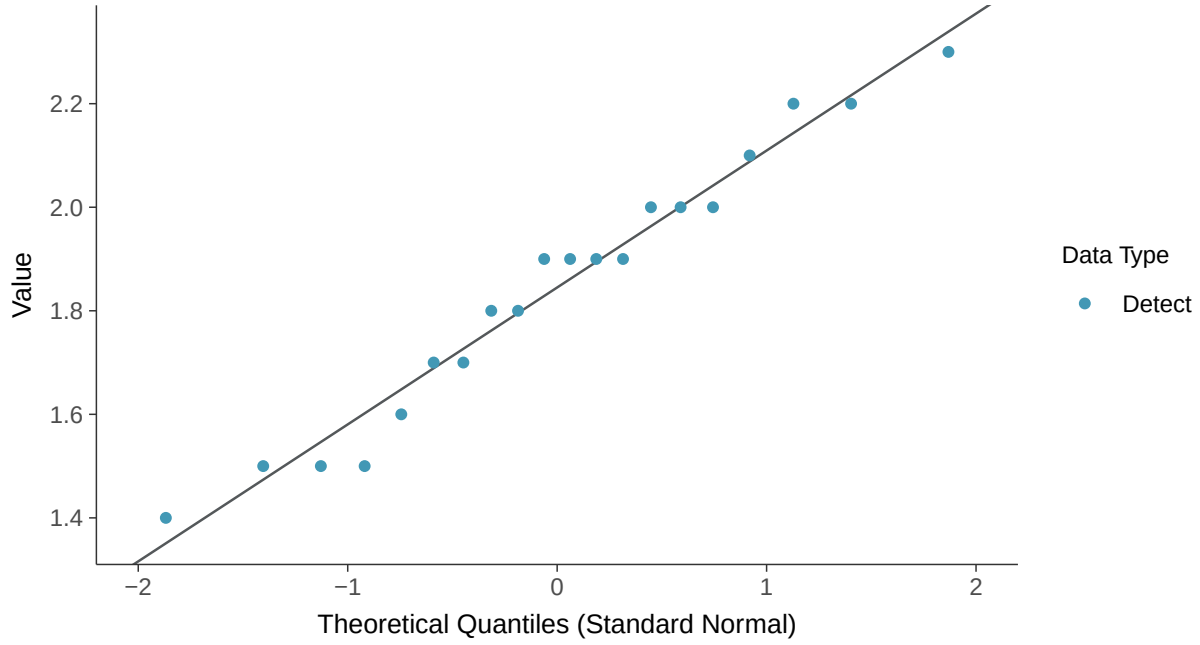
Boxplot by Season

Fluoride (App IV), MW-19 (mg/L)



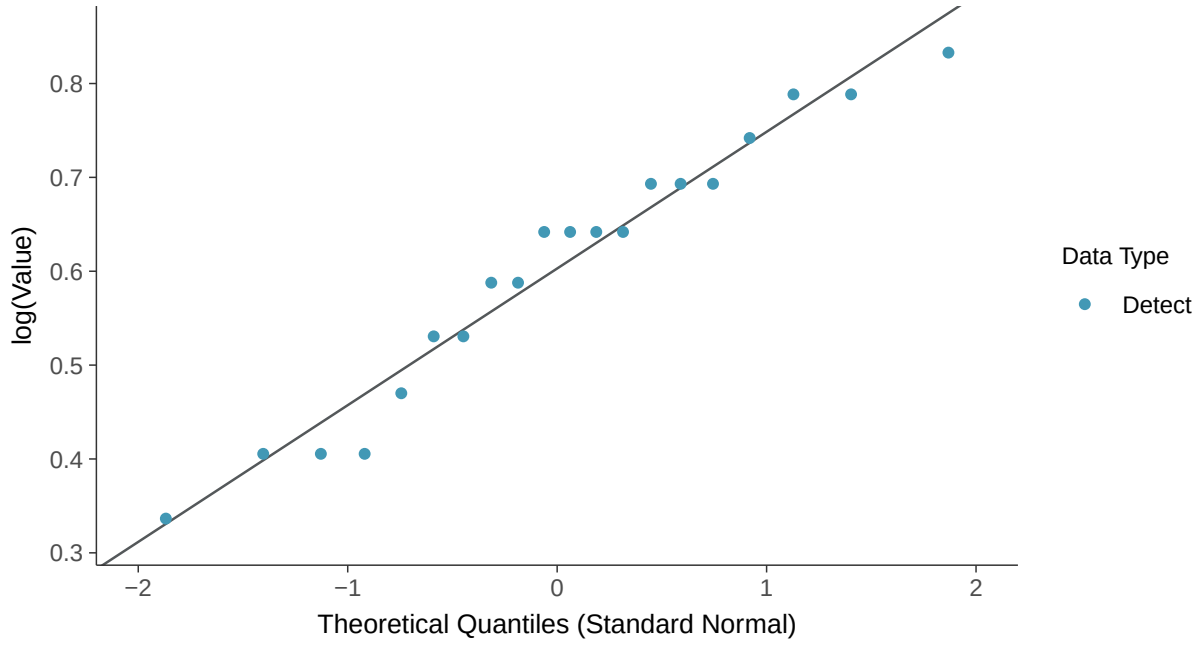
Normal Q-Q plot

Fluoride (App IV), MW-19 (mg/L)



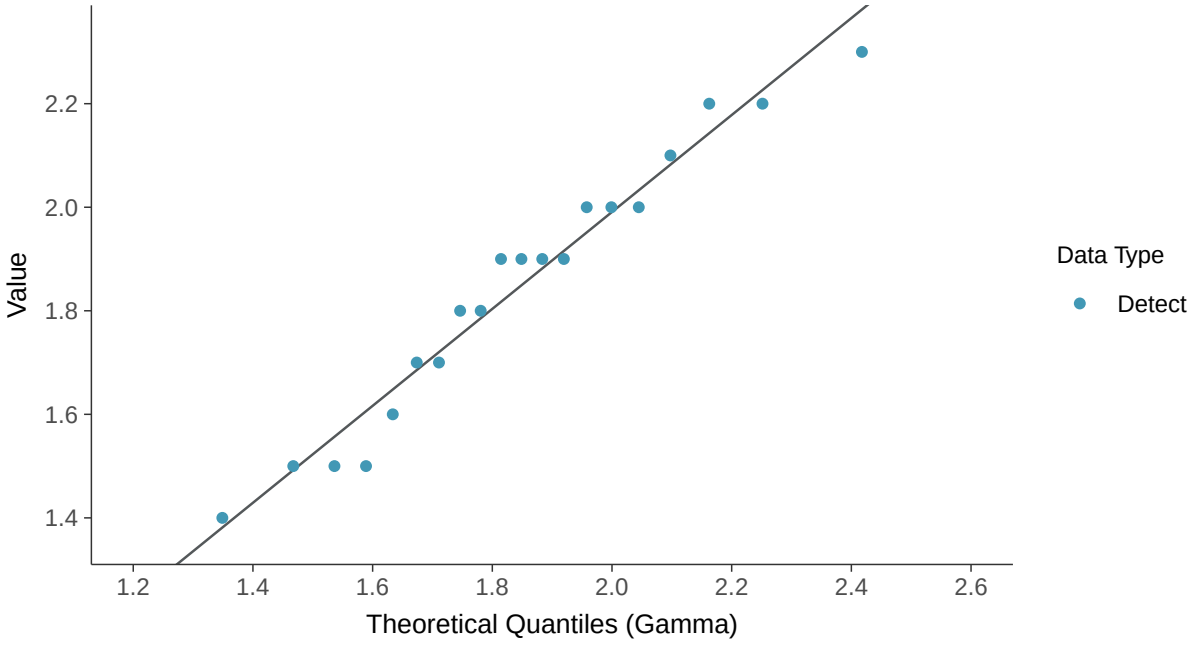
Lognormal Q-Q plot

Fluoride (App IV), MW-19 (mg/L)



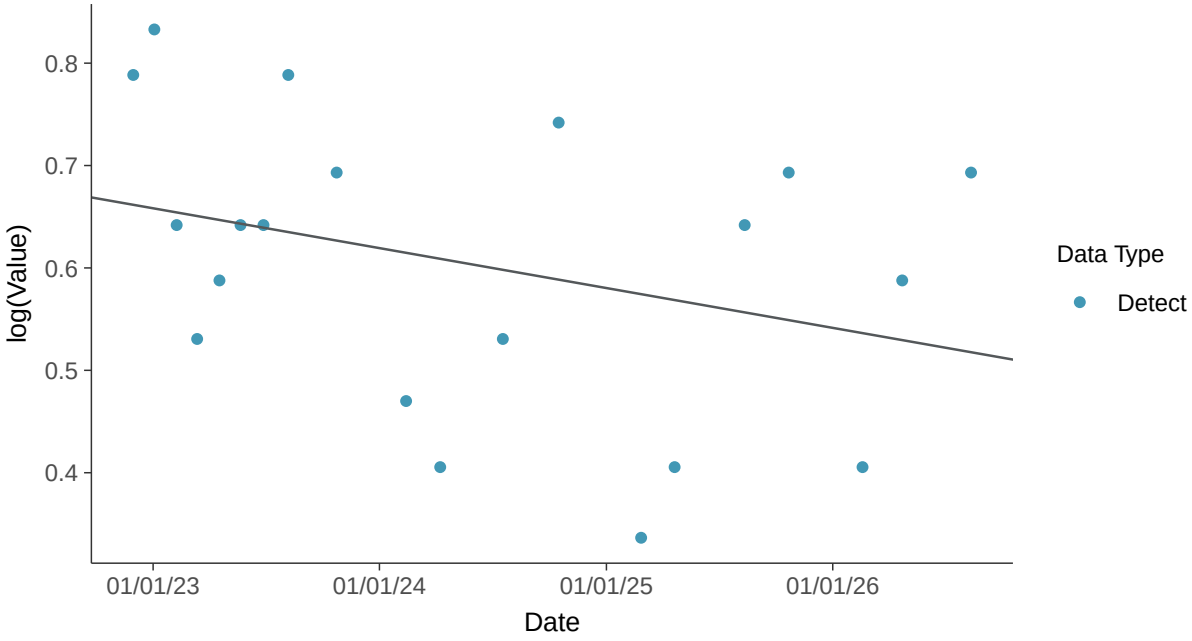
Gamma Q-Q plot

Fluoride (App IV), MW-19 (mg/L)



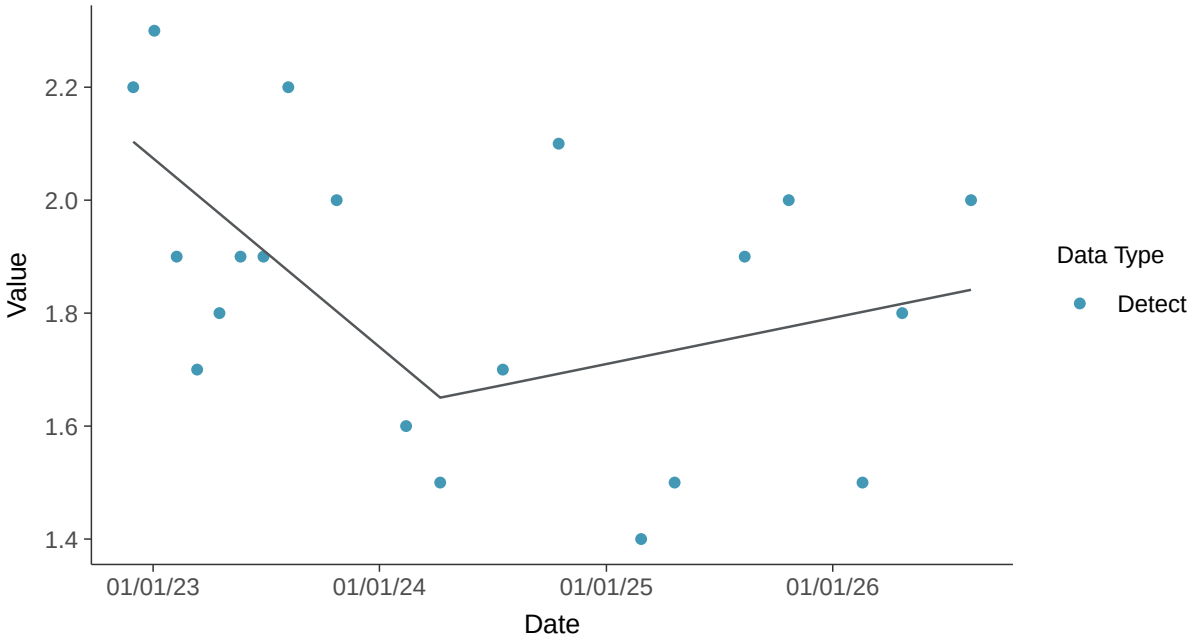
Trend Regression: Lognormal MLE

Fluoride (App IV), MW-19 (mg/L)



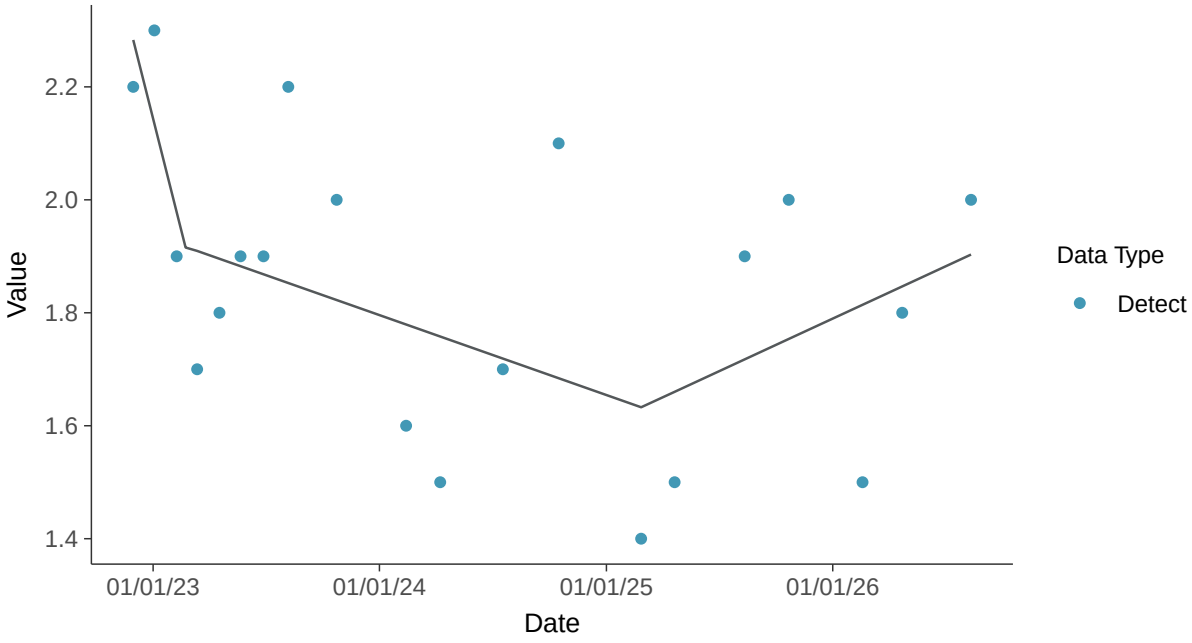
Trend Regression: Piecewise Linear-Linear

Fluoride (App IV), MW-19 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Fluoride (App IV), MW-19 (mg/L)

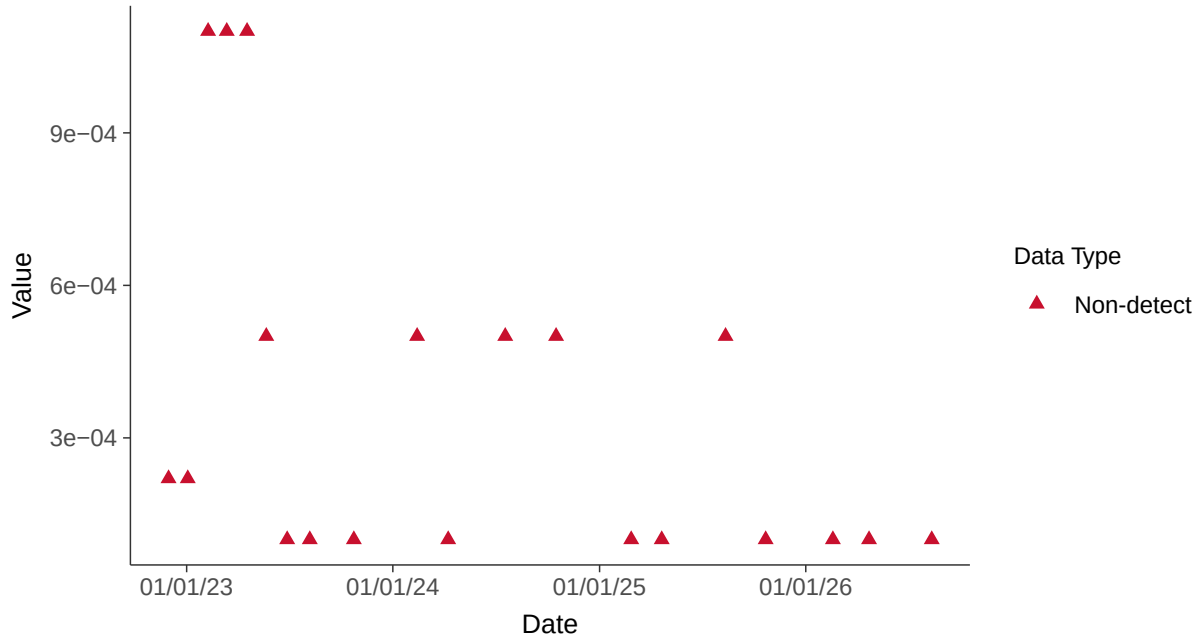


Appendix IV: Lead, MW-19

ID: 29_1_4_115

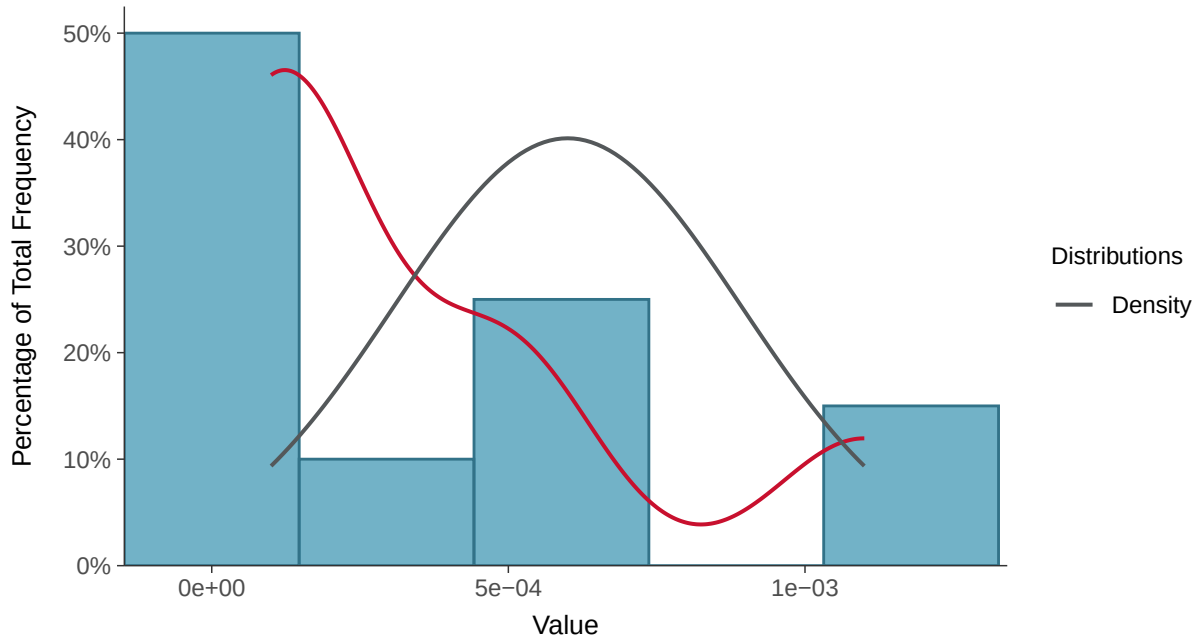
Scatter Plot

Lead, MW-19 (mg/L)



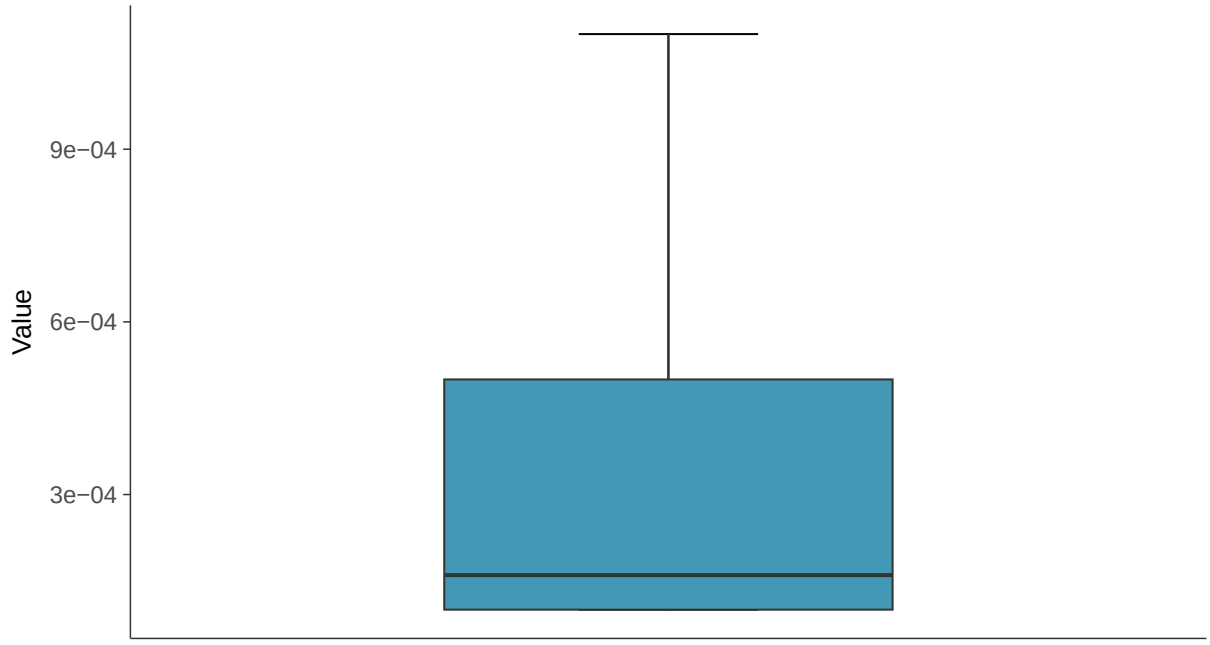
Histogram

Lead, MW-19 (mg/L)



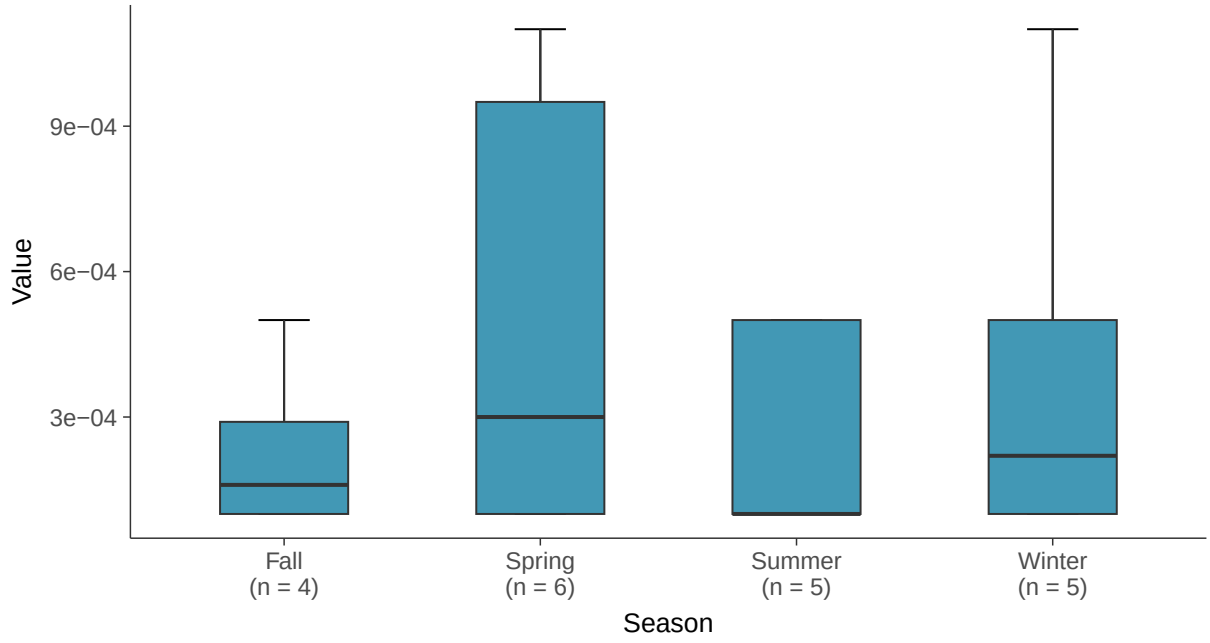
Boxplot

Lead, MW-19 (mg/L)



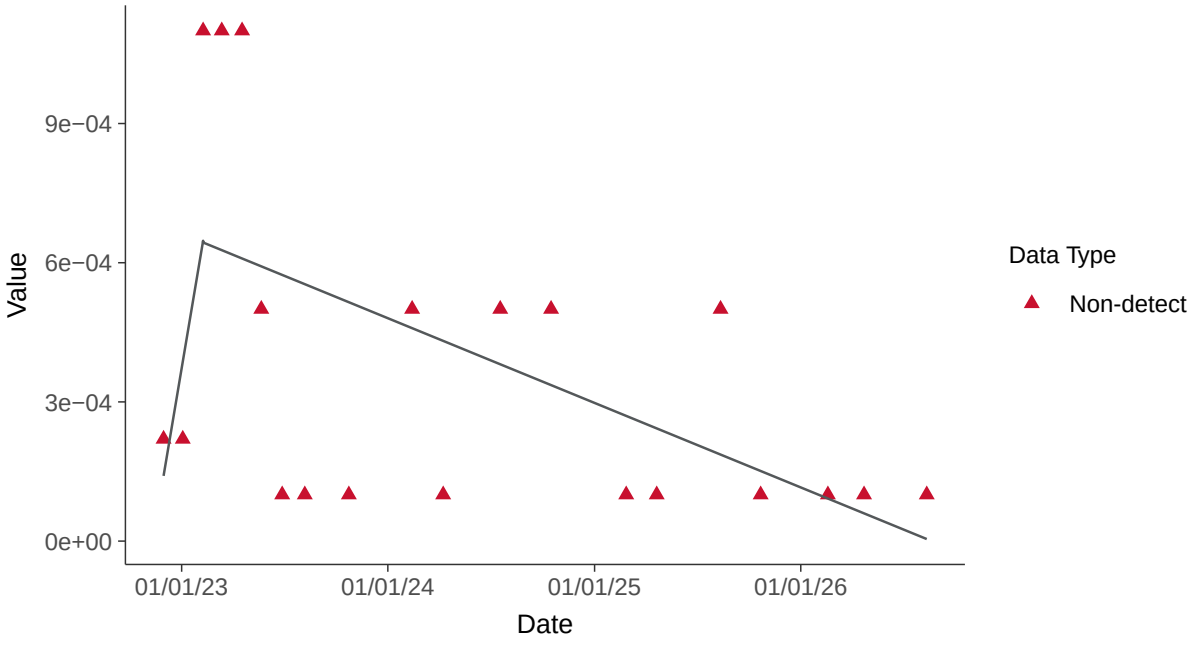
Boxplot by Season

Lead, MW-19 (mg/L)



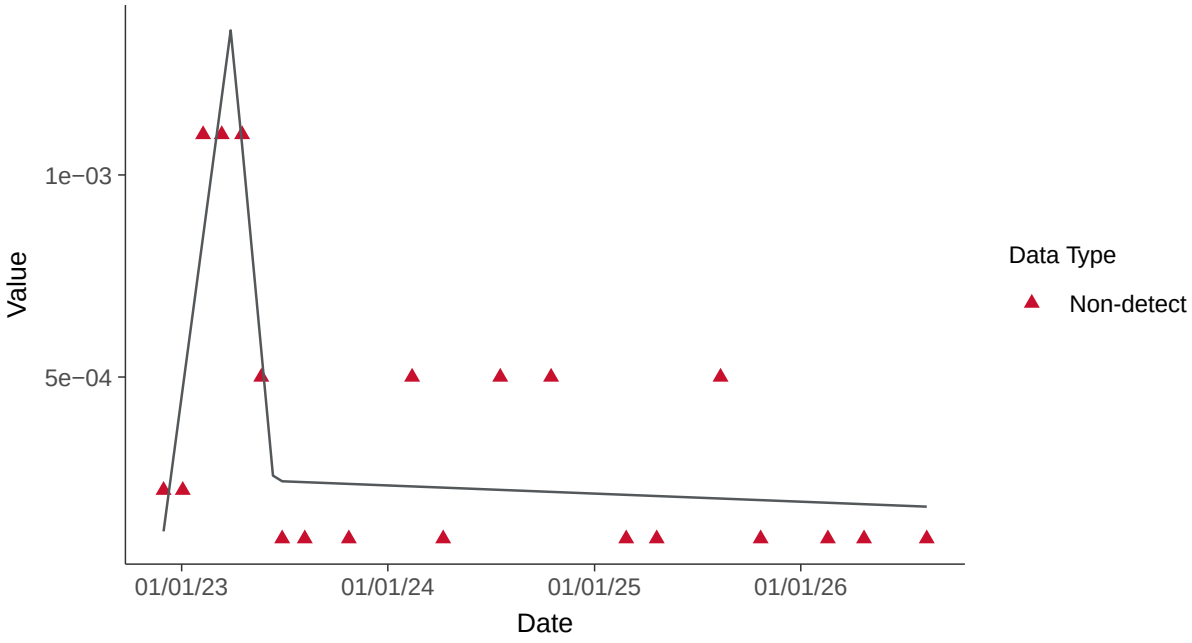
Trend Regression: Piecewise Linear-Linear

Lead, MW-19 (mg/L)



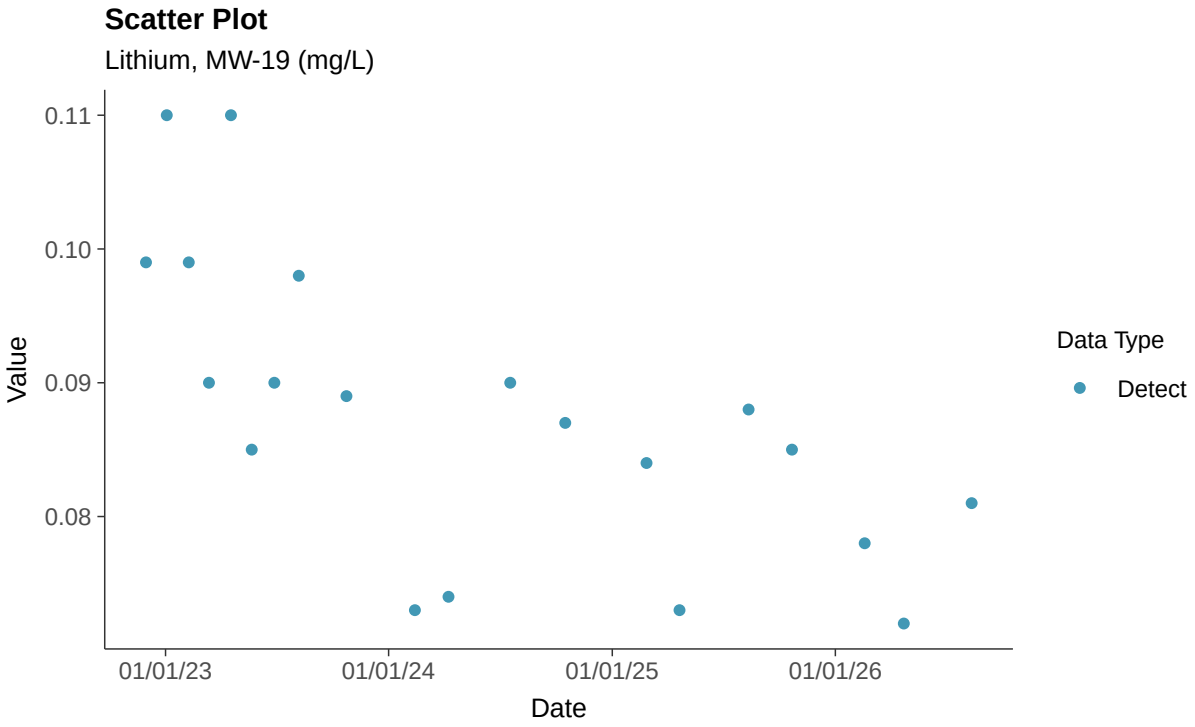
Trend Regression: Piecewise Linear-Linear-Linear

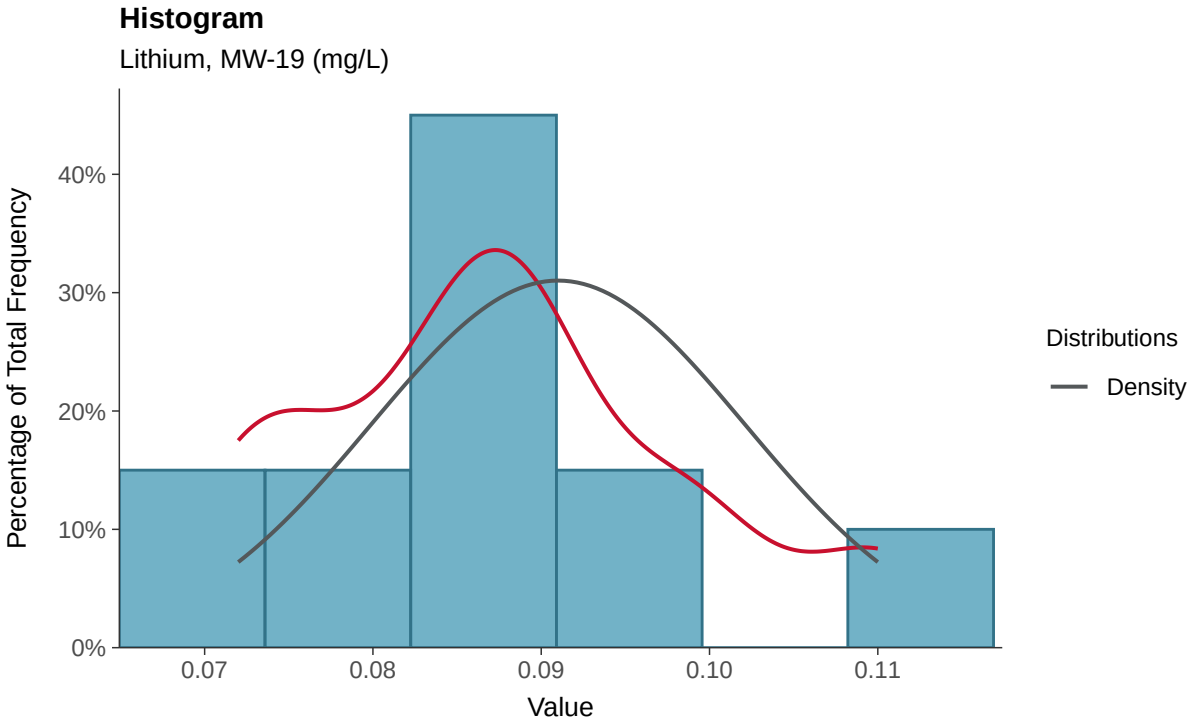
Lead, MW-19 (mg/L)



Appendix IV: Lithium, MW-19

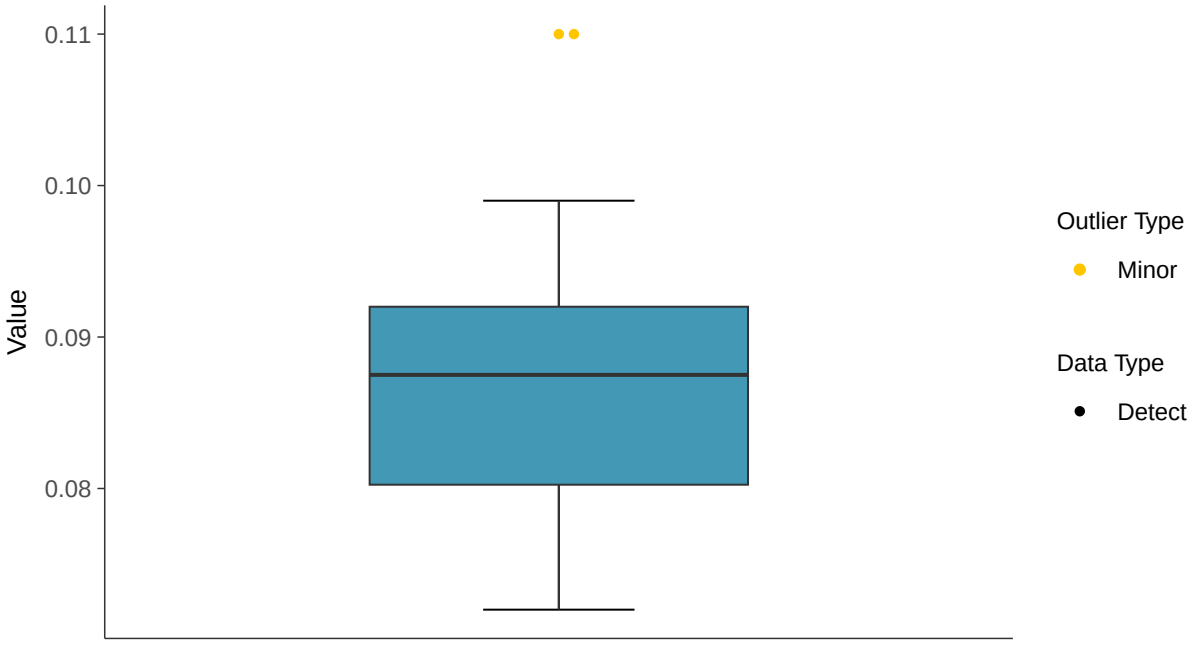
ID: 29_1_4_116





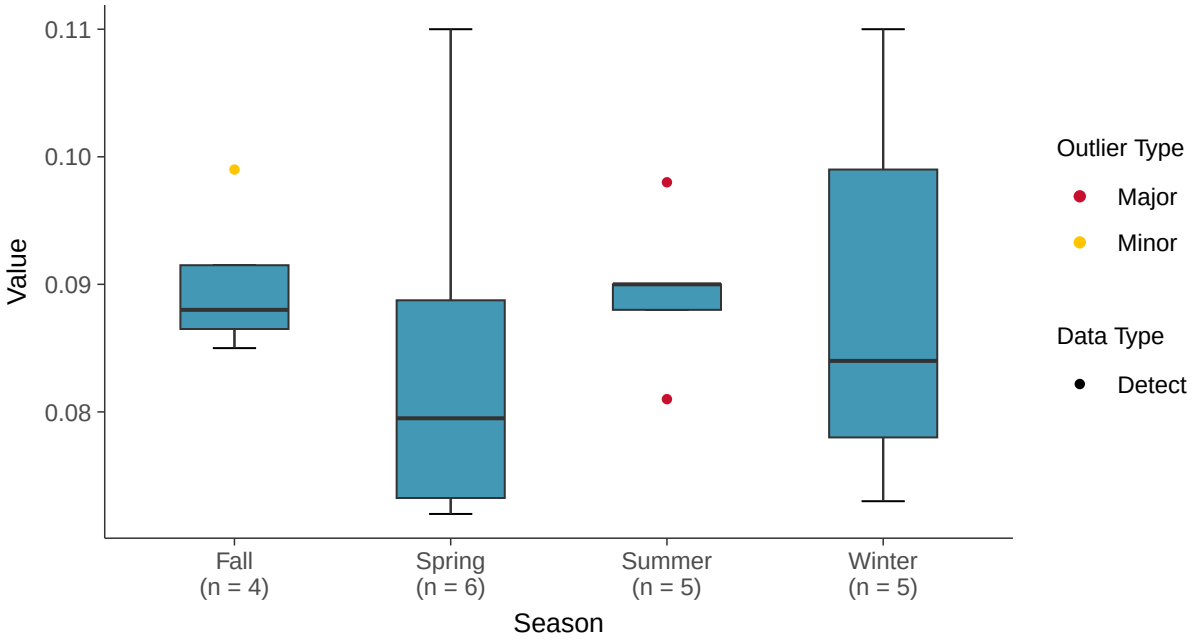
Boxplot

Lithium, MW-19 (mg/L)



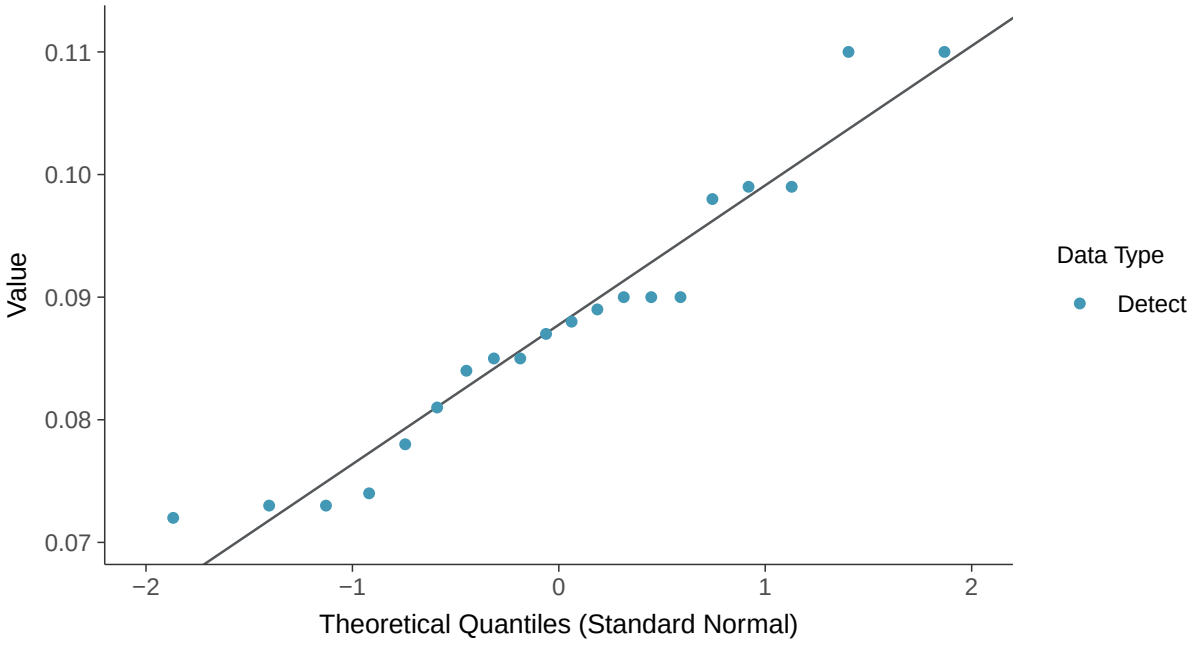
Boxplot by Season

Lithium, MW-19 (mg/L)



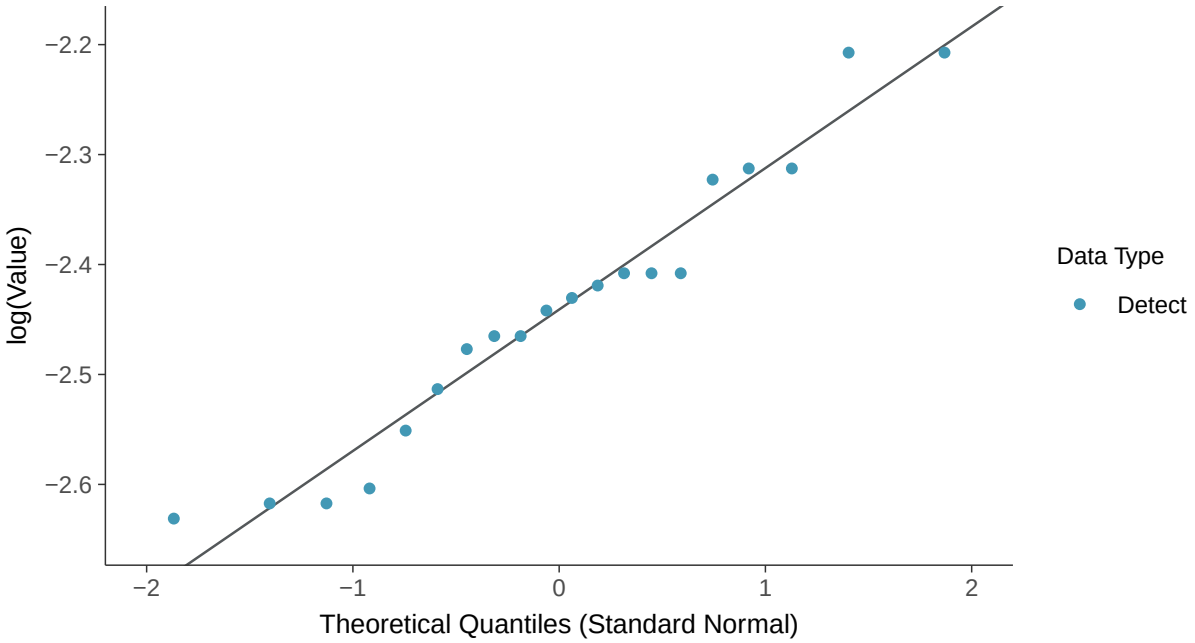
Normal Q-Q plot

Lithium, MW-19 (mg/L)



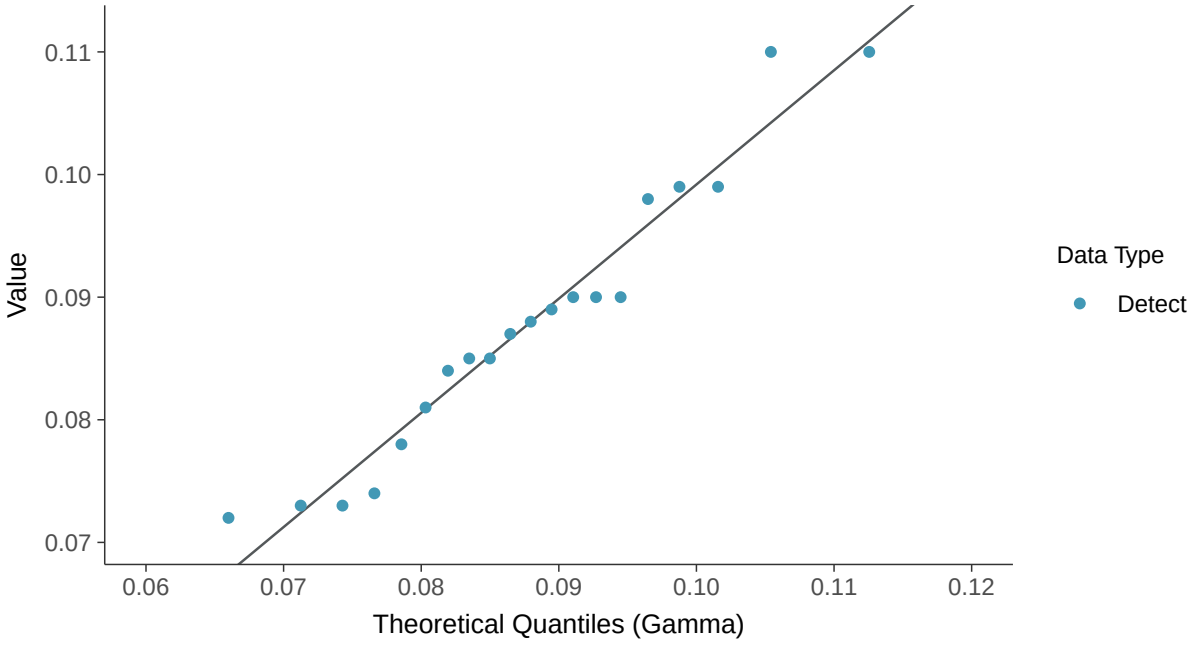
Lognormal Q-Q plot

Lithium, MW-19 (mg/L)



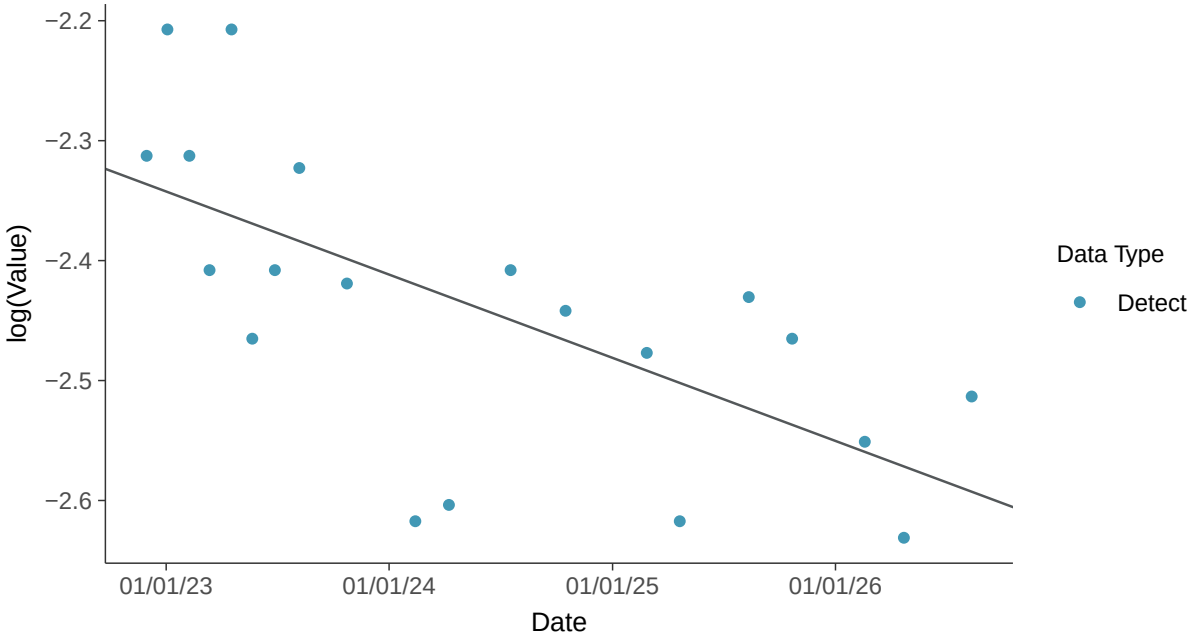
Gamma Q-Q plot

Lithium, MW-19 (mg/L)



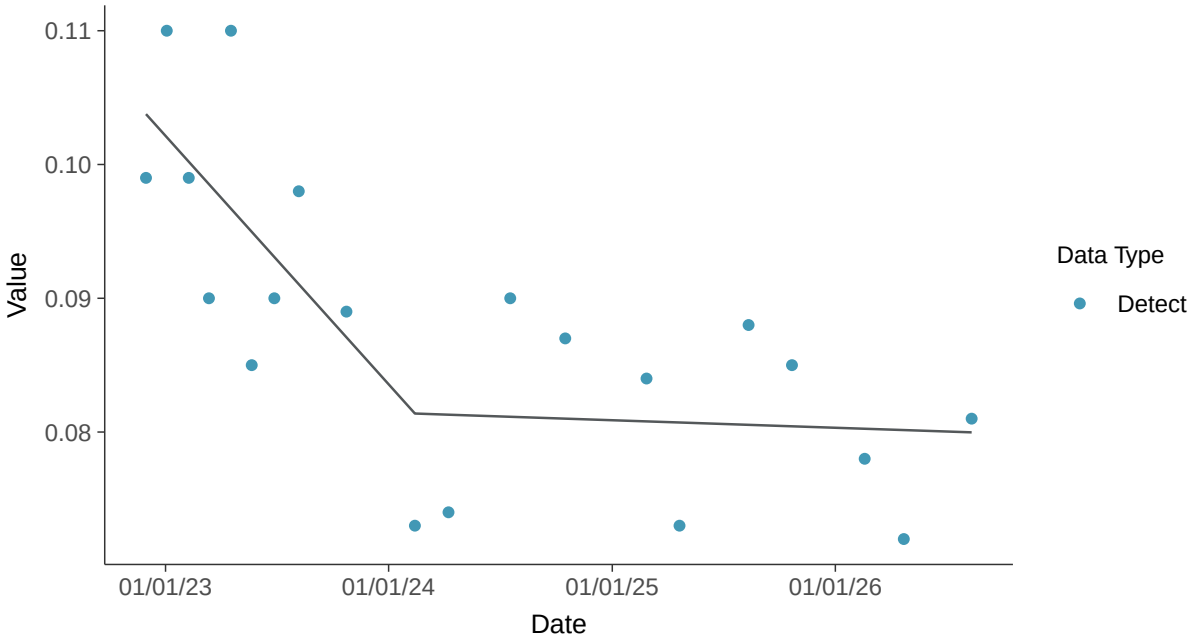
Trend Regression: Lognormal MLE

Lithium, MW-19 (mg/L)



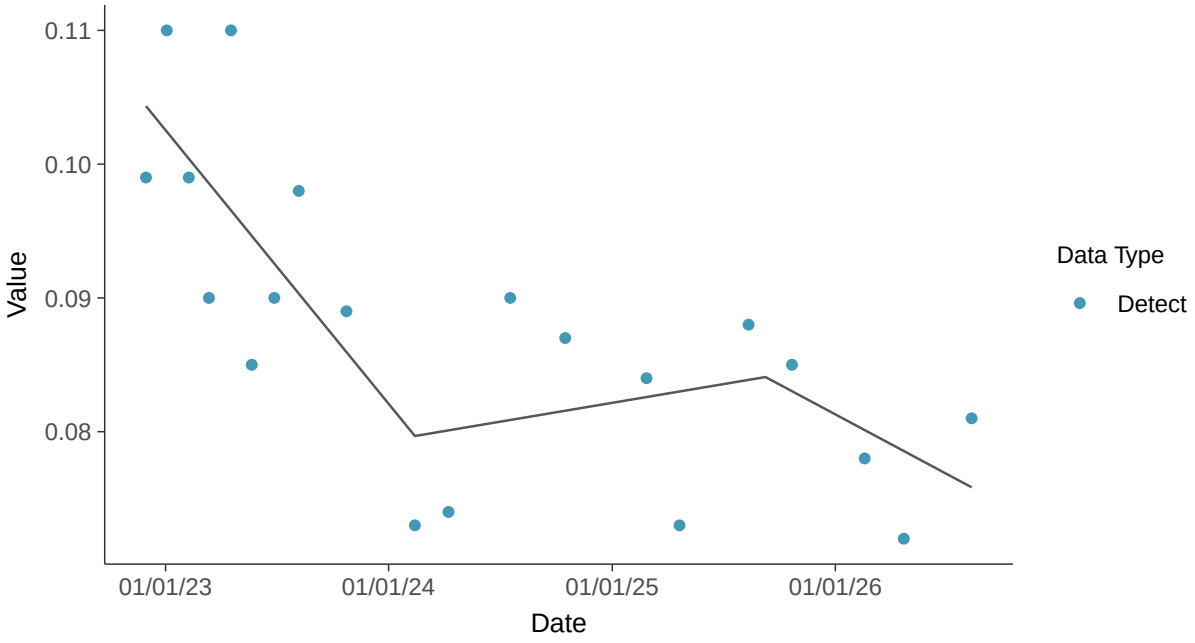
Trend Regression: Piecewise Linear-Linear

Lithium, MW-19 (mg/L)



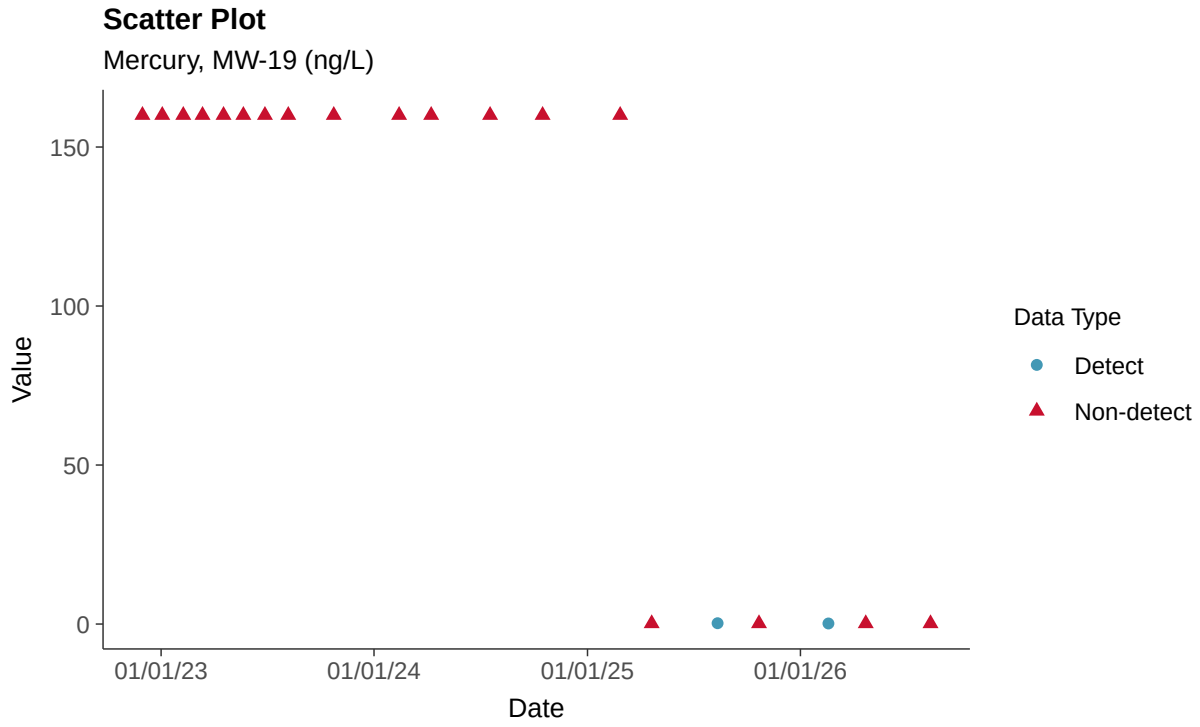
Trend Regression: Piecewise Linear-Linear-Linear

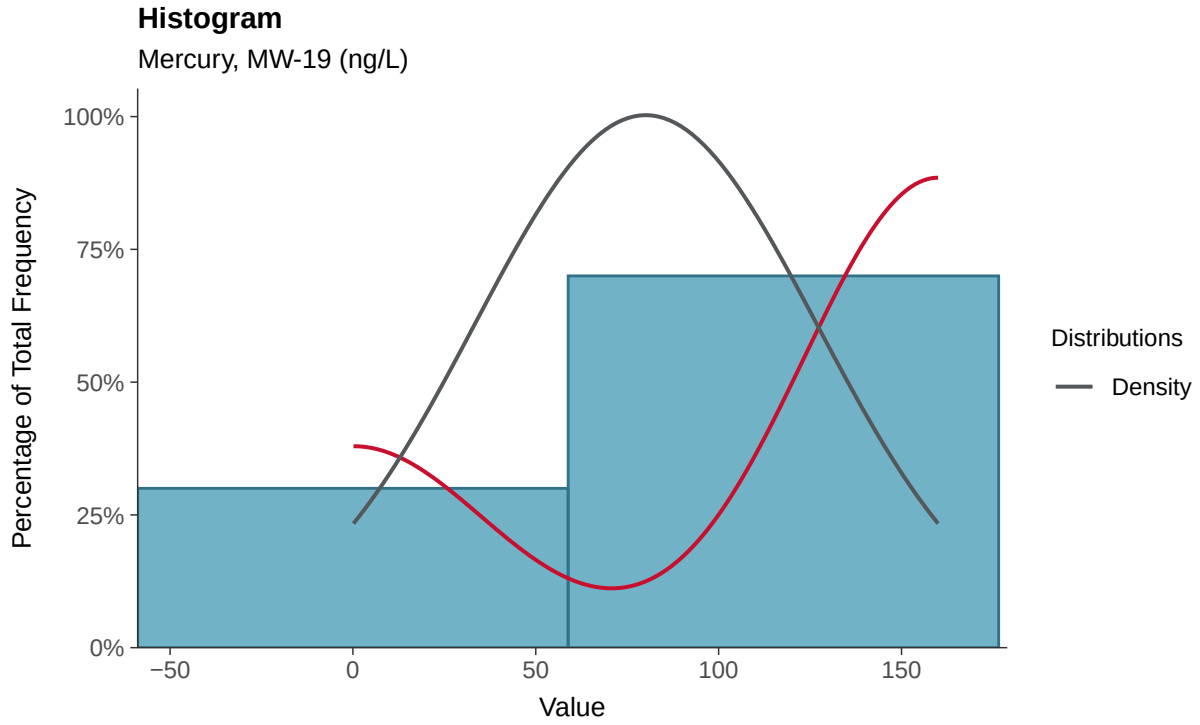
Lithium, MW-19 (mg/L)



Appendix IV: Mercury, MW-19

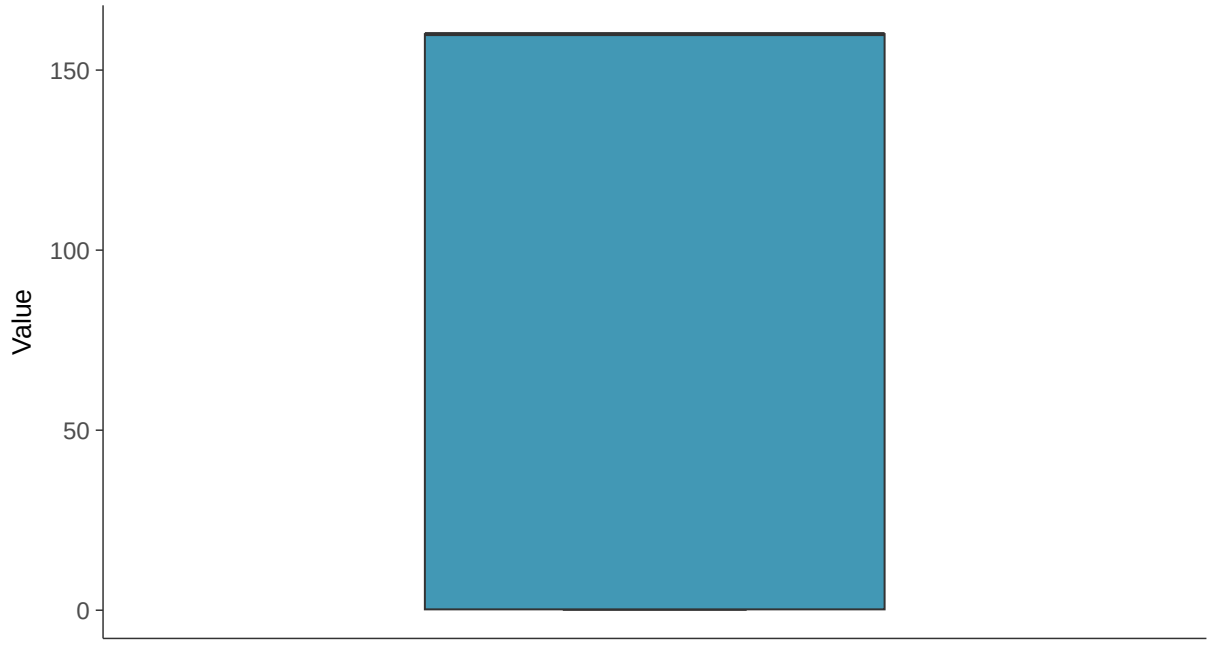
ID: 29_1_4_117





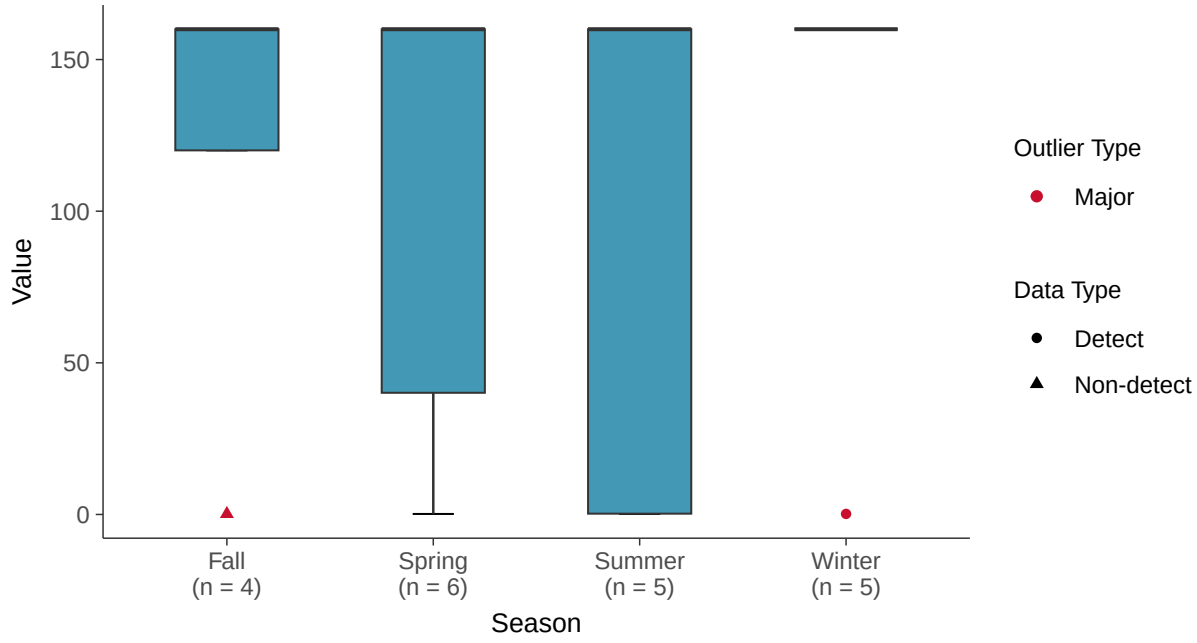
Boxplot

Mercury, MW-19 (ng/L)



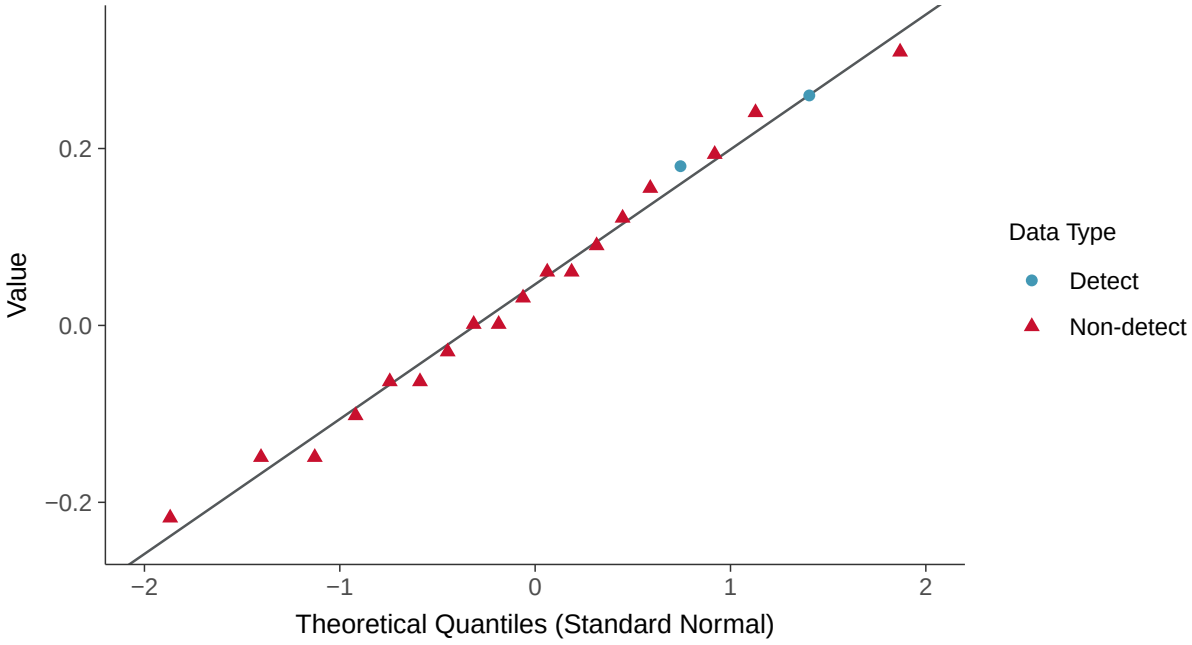
Boxplot by Season

Mercury, MW-19 (ng/L)



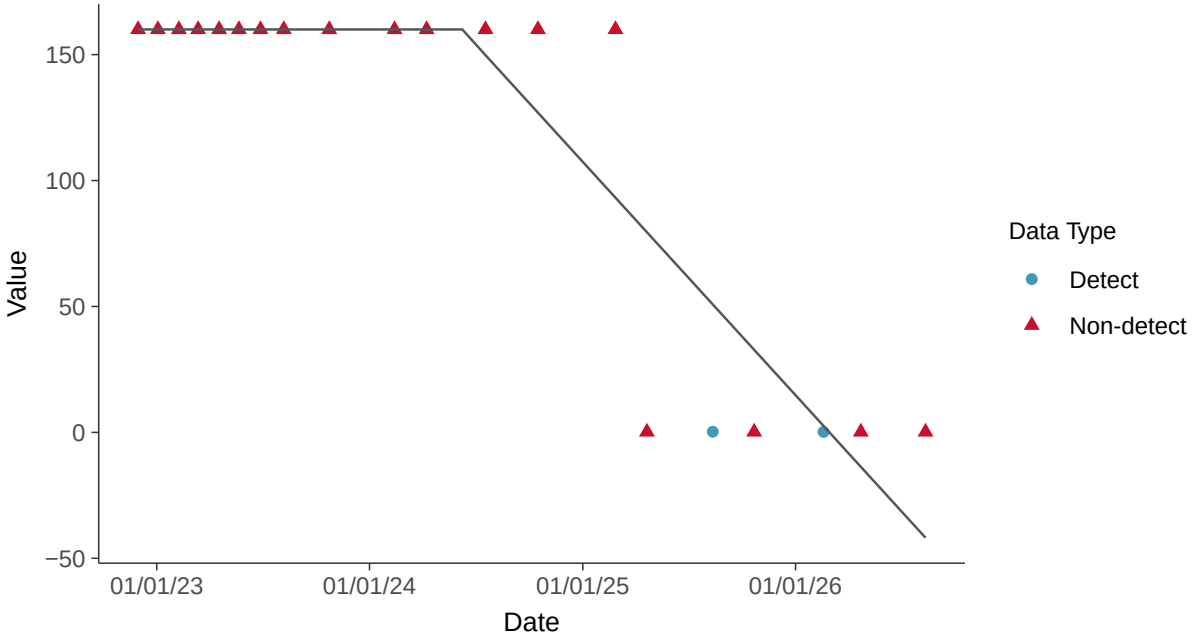
Normal Q-Q plot using ROS Imputed Estimates

Mercury, MW-19 (ng/L)



Trend Regression: Piecewise Linear-Linear

Mercury, MW-19 (ng/L)

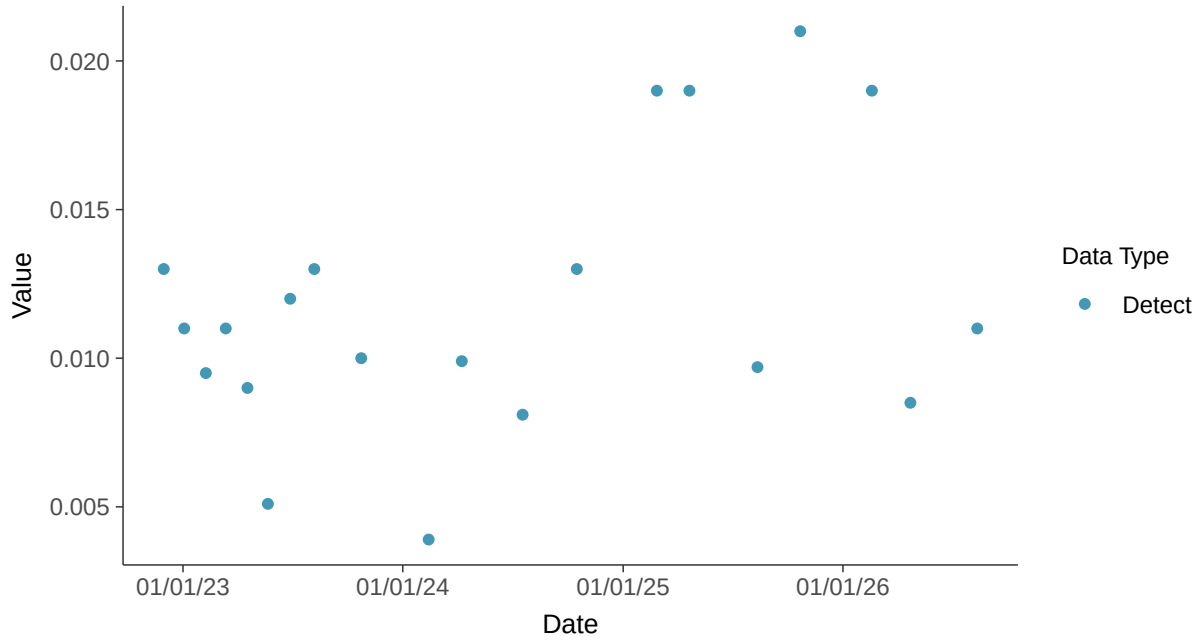


Appendix IV: Molybdenum, MW-19

ID: 29_1_4_118

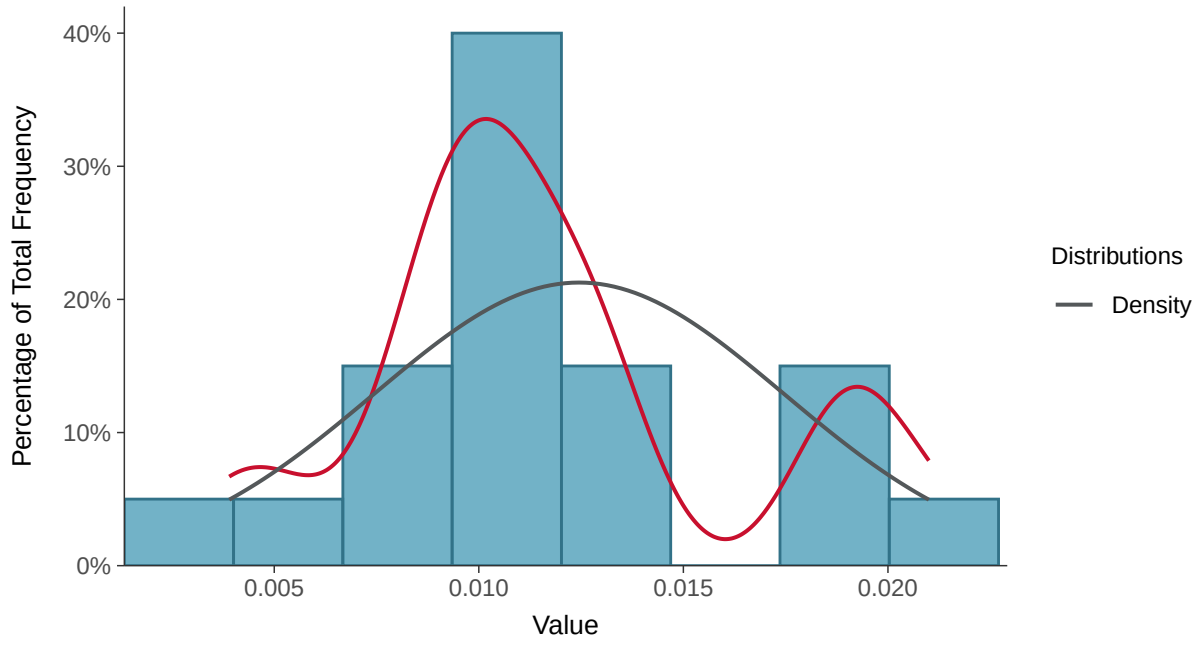
Scatter Plot

Molybdenum, MW-19 (mg/L)



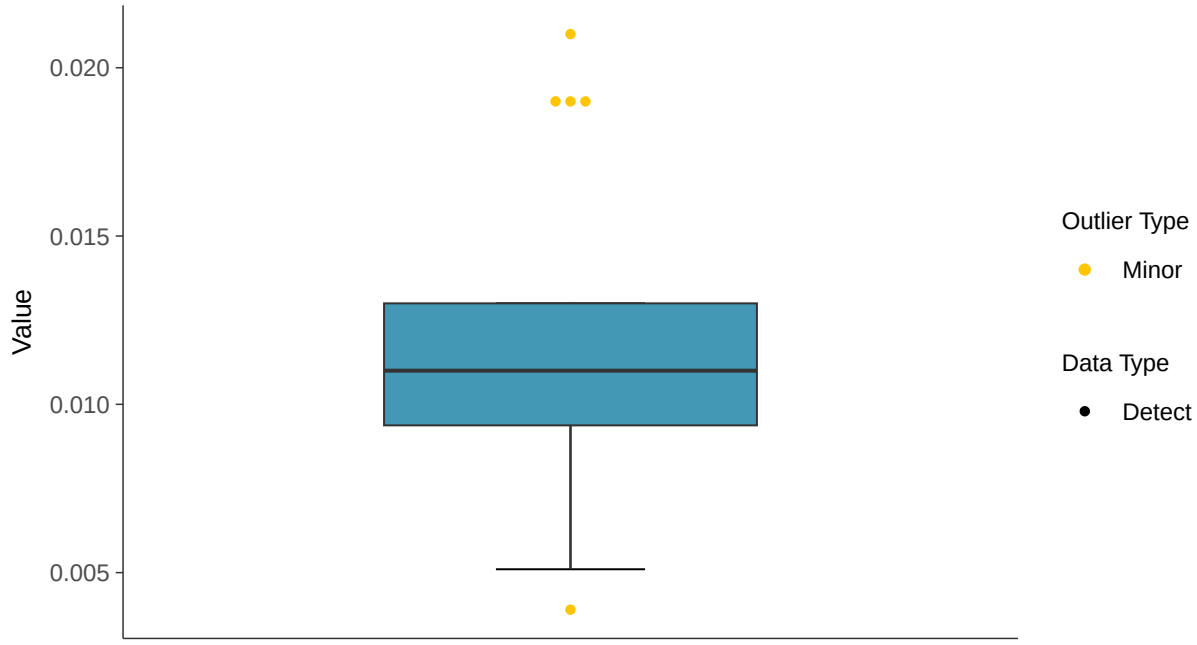
Histogram

Molybdenum, MW-19 (mg/L)



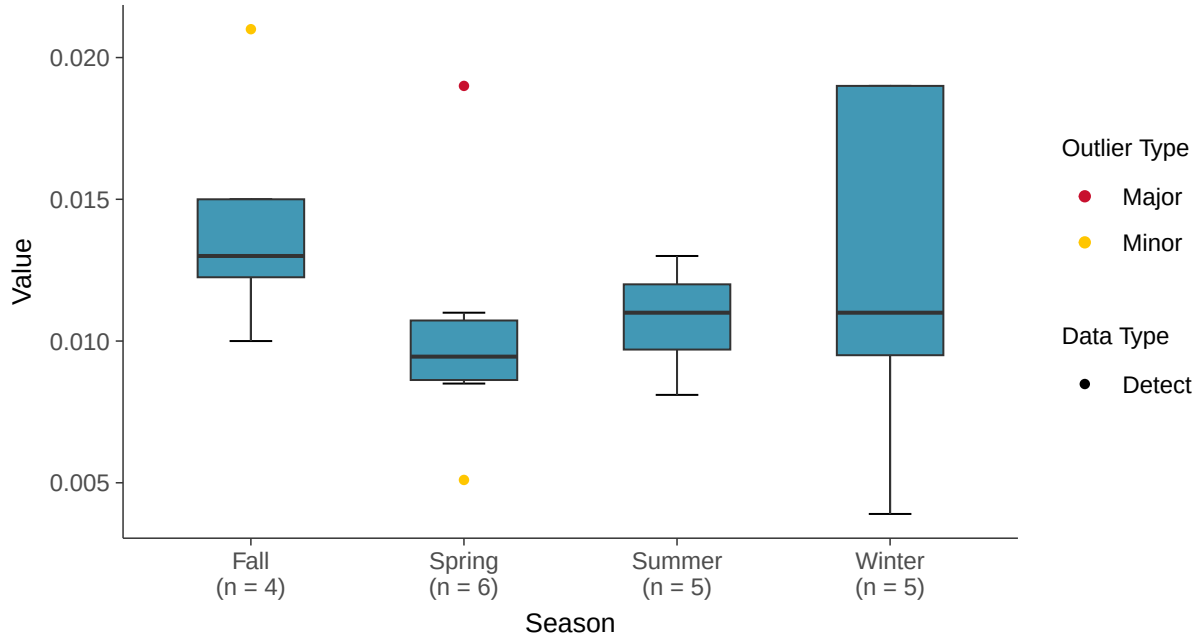
Boxplot

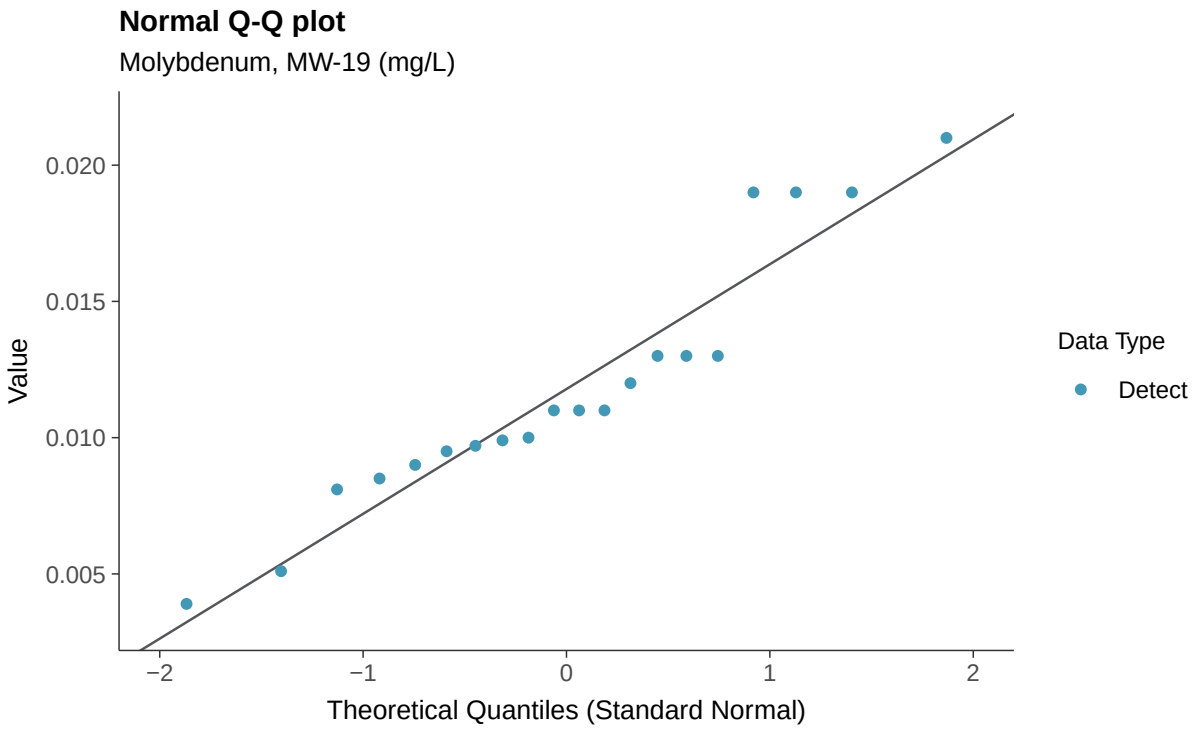
Molybdenum, MW-19 (mg/L)

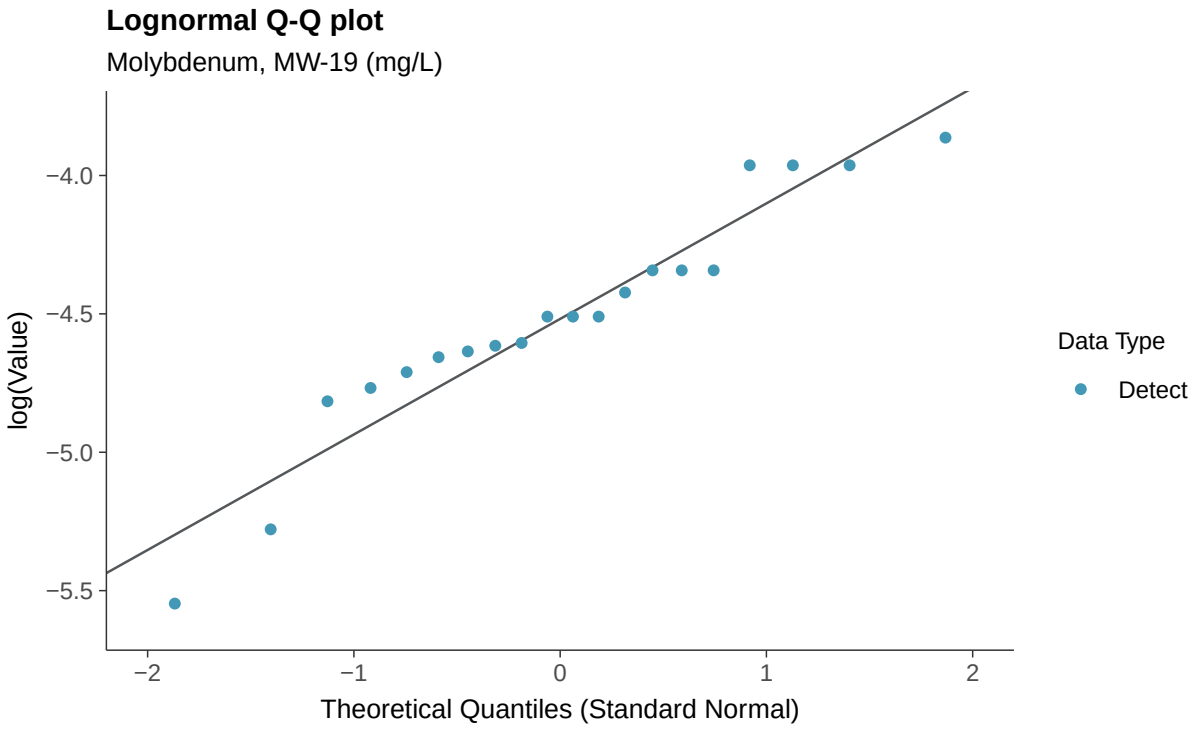


Boxplot by Season

Molybdenum, MW-19 (mg/L)

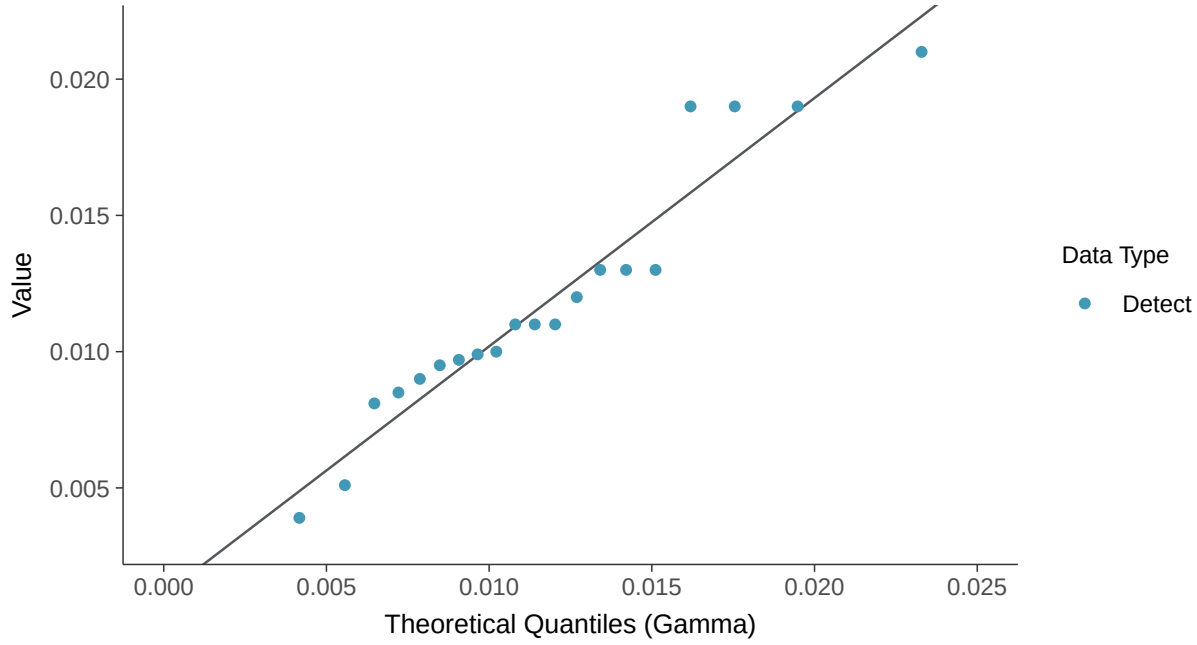



Normal Q-Q plot
Molybdenum, MW-19 (mg/L)
Value
0.020
0.015
0.010
0.005
−2
−1
0
1
2
Theoretical Quantiles (Standard Normal)
Data Type
Detect


Lognormal Q-Q plot
Molybdenum, MW-19 (mg/L)
log(Value)
−4.0
−4.5
−5.0
−5.5
−2
−1
0
1
2
Theoretical Quantiles (Standard Normal)
Data Type
Detect

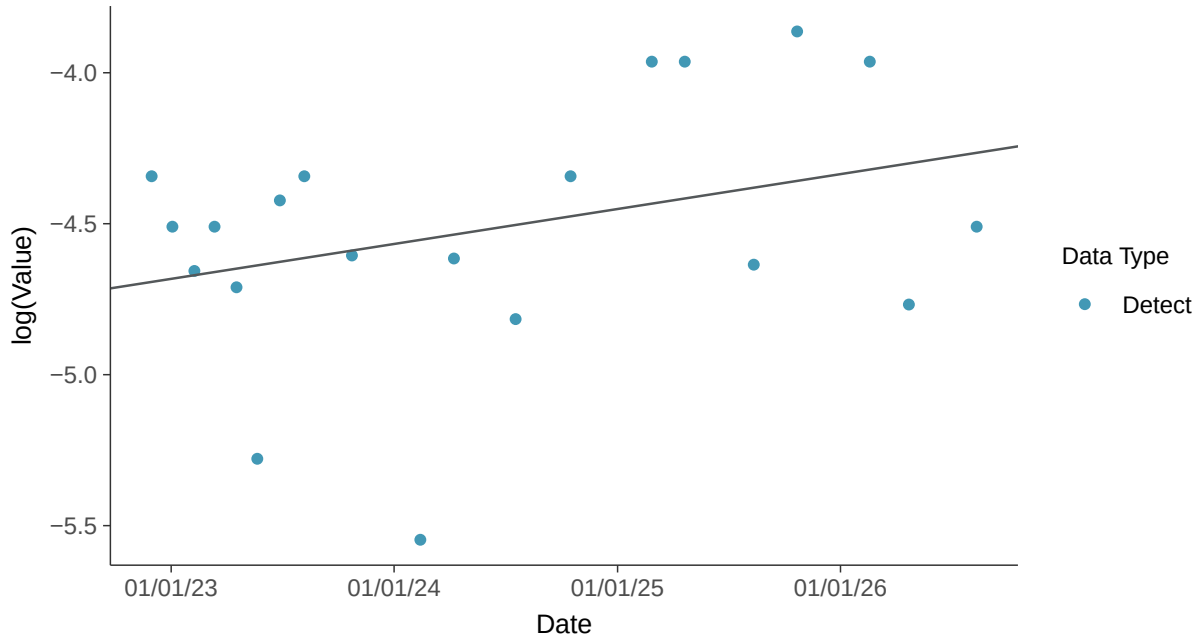
Gamma Q-Q plot

Molybdenum, MW-19 (mg/L)



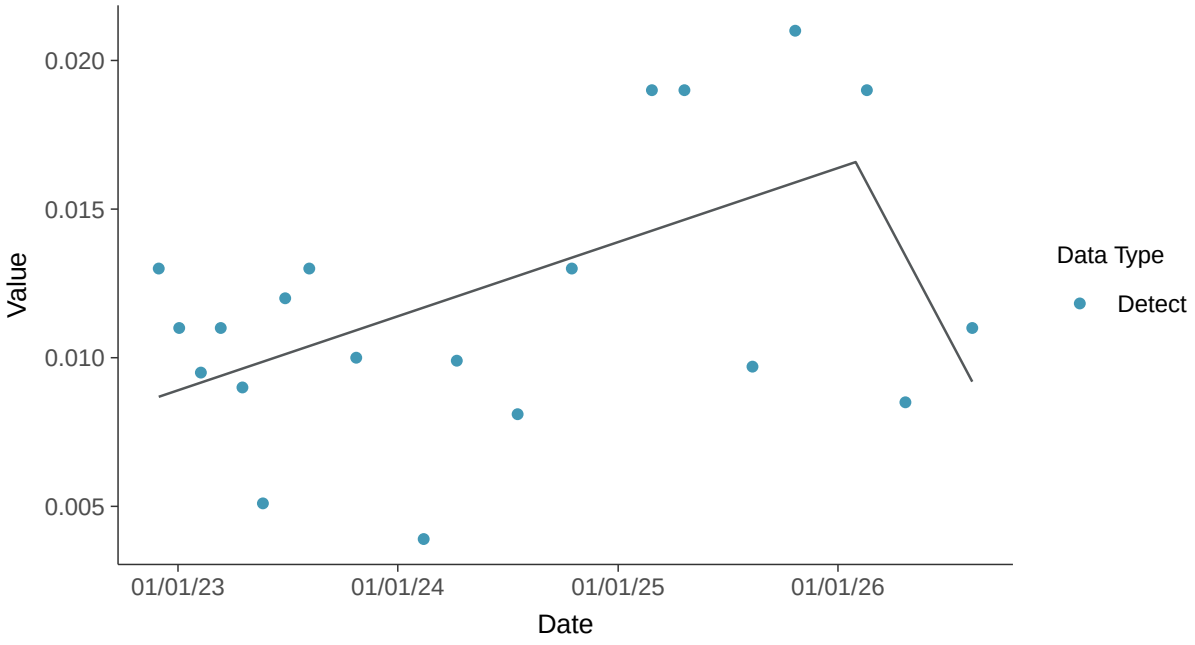
Trend Regression: Lognormal MLE

Molybdenum, MW-19 (mg/L)



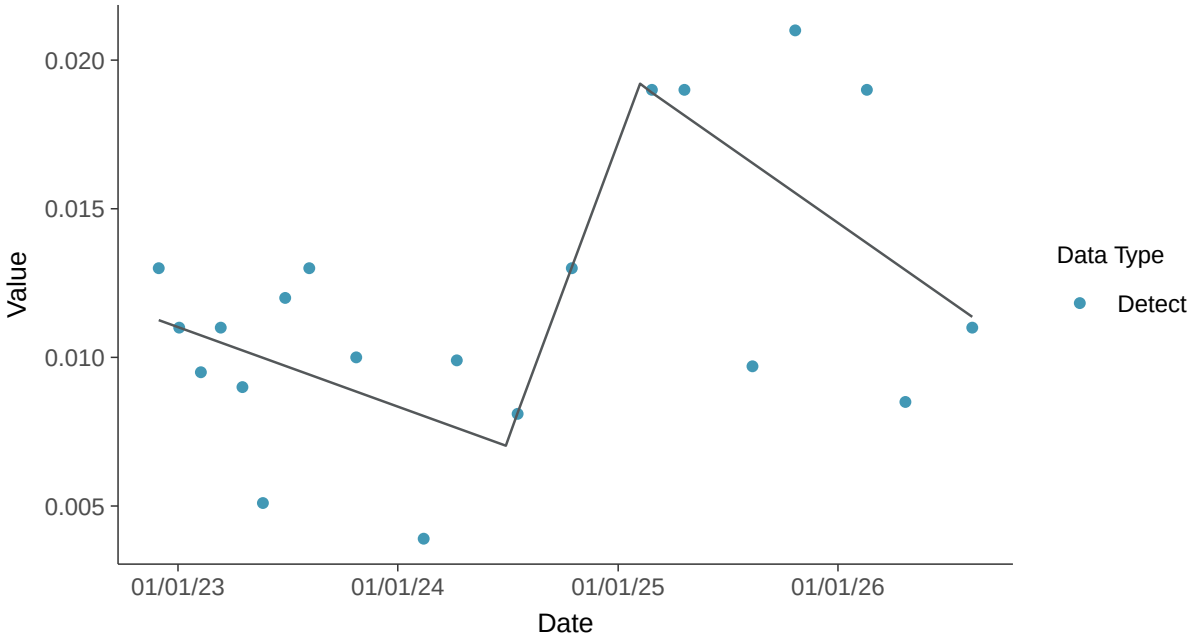
Trend Regression: Piecewise Linear-Linear

Molybdenum, MW-19 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Molybdenum, MW-19 (mg/L)

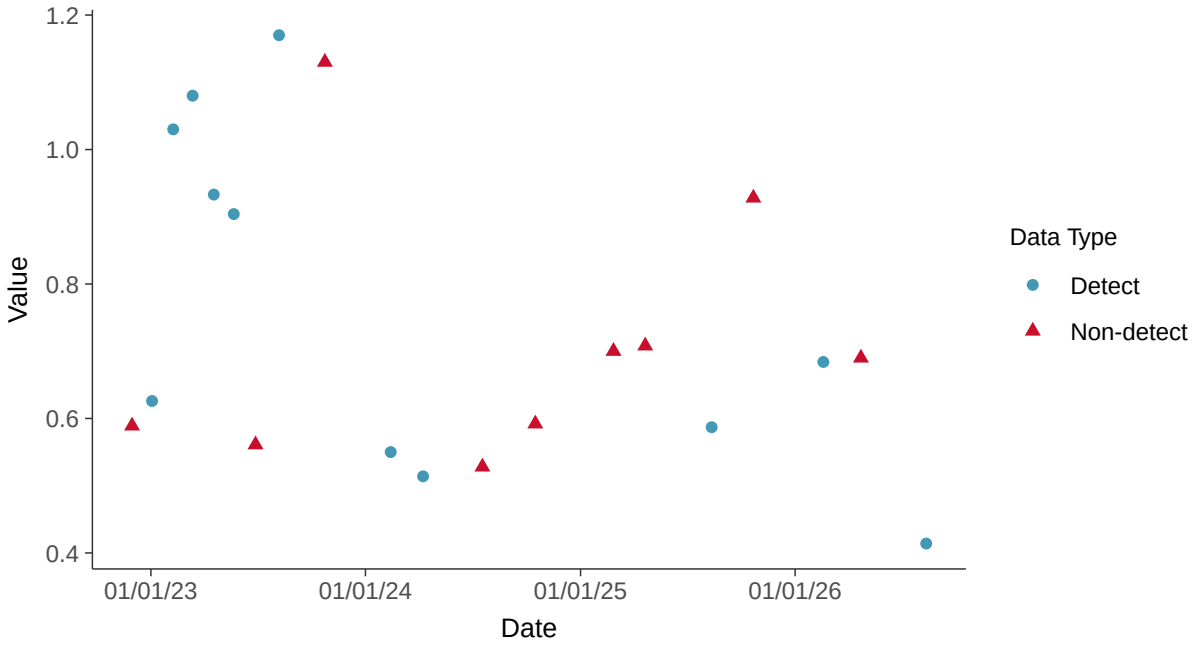


Appendix IV: Radium 226 and 228, MW-19

ID: 29_1_4_121

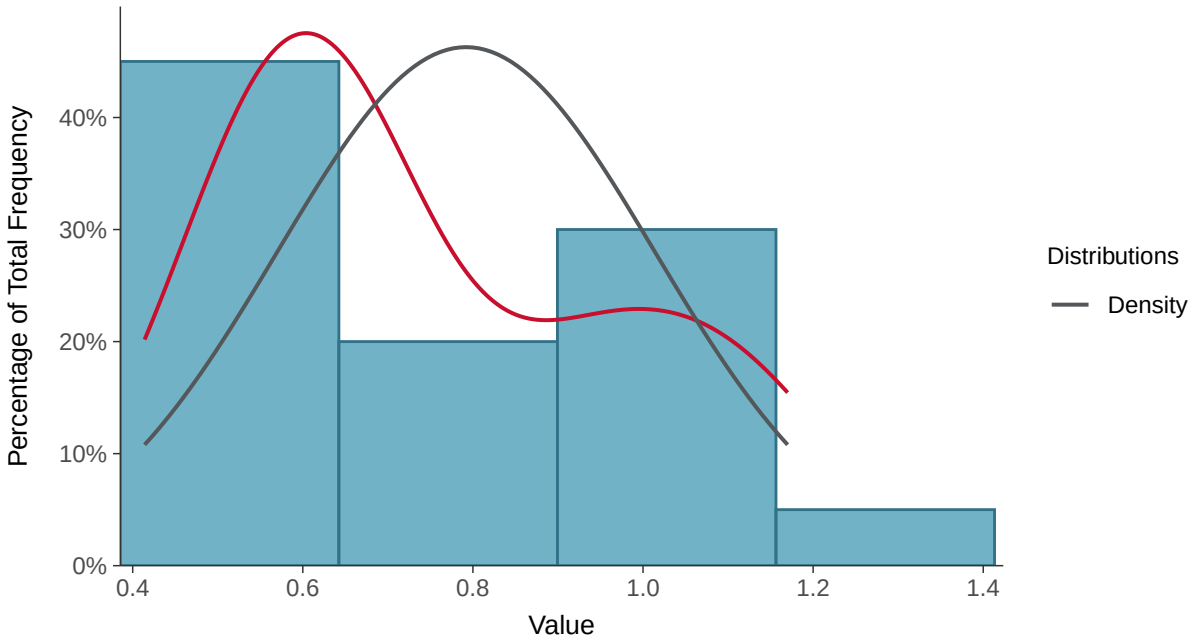
Scatter Plot

Radium 226 and 228, MW-19 (pCi/L)



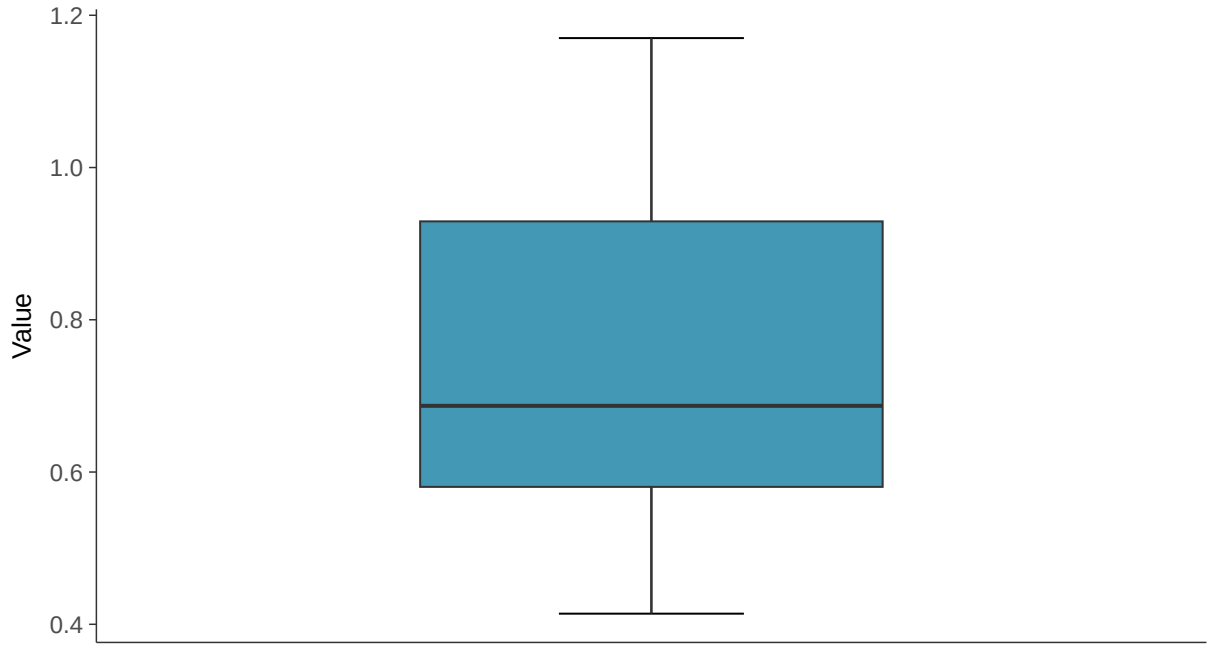
Histogram

Radium 226 and 228, MW-19 (pCi/L)



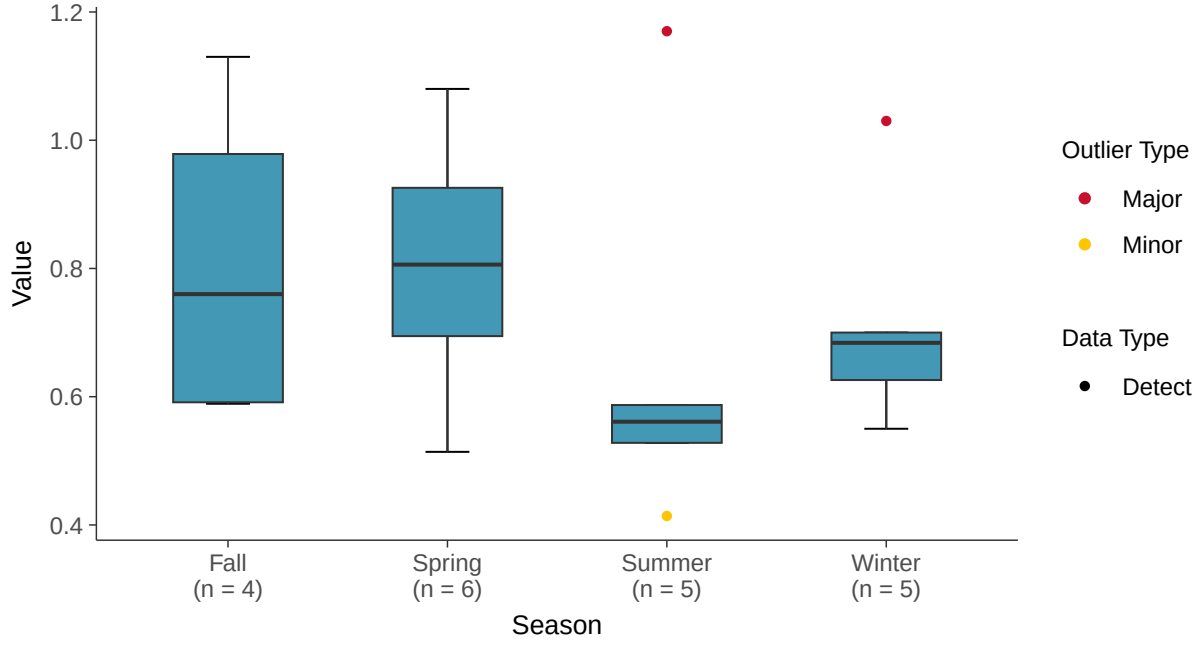
Boxplot

Radium 226 and 228, MW-19 (pCi/L)



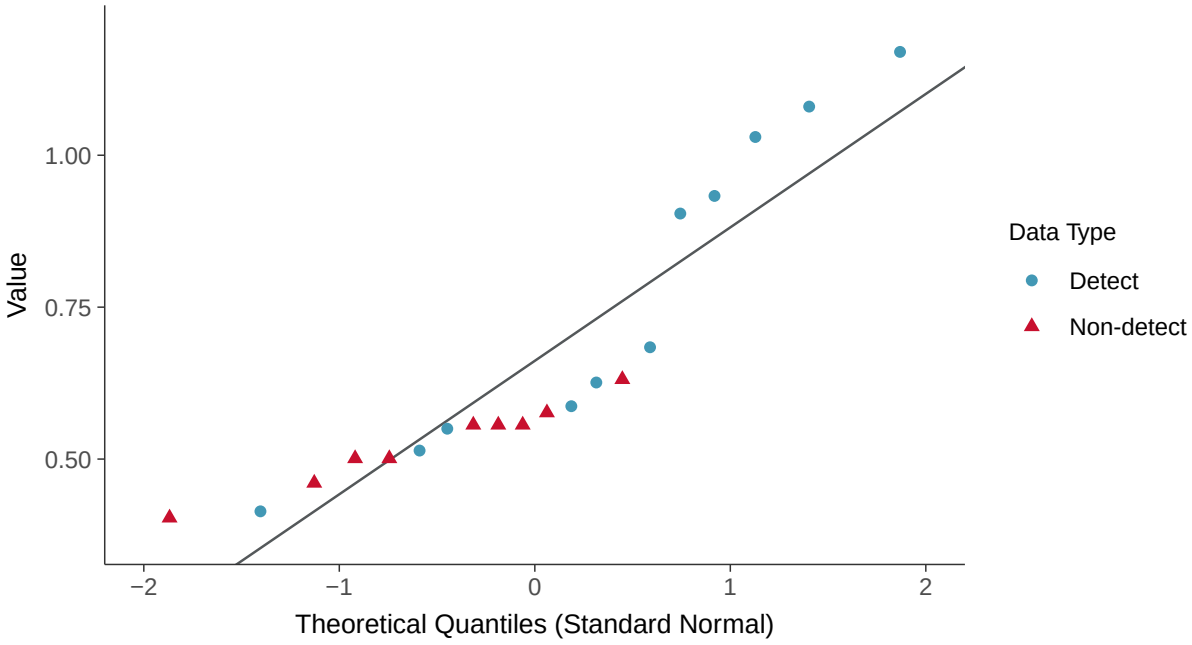
Boxplot by Season

Radium 226 and 228, MW-19 (pCi/L)



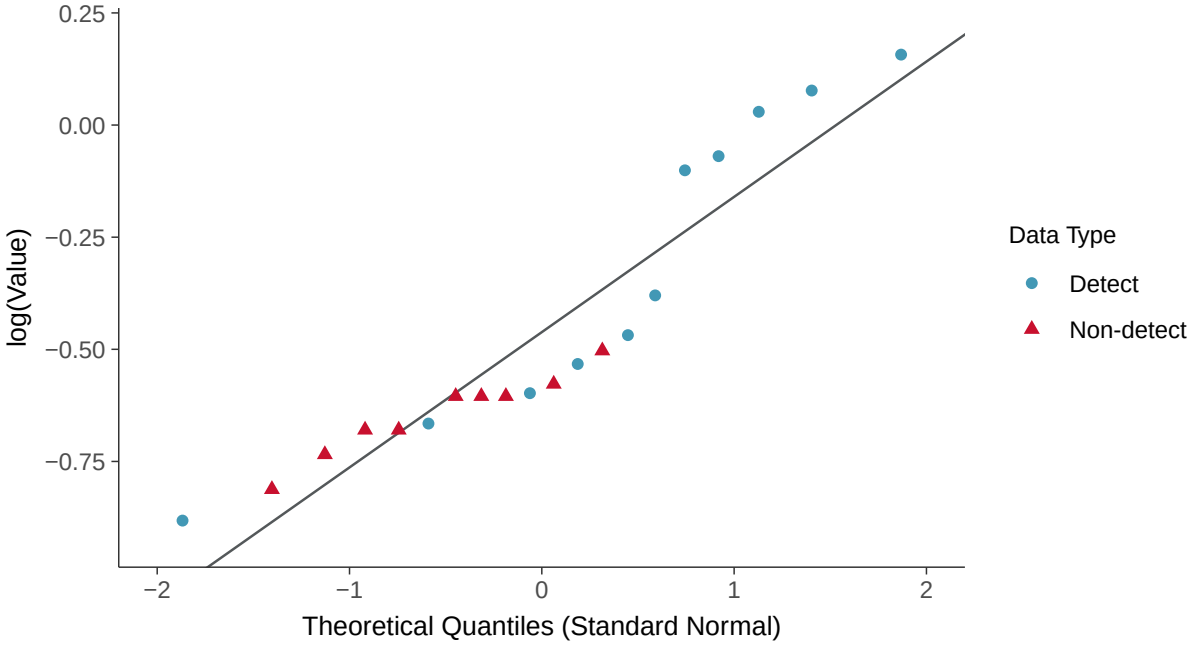
Normal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-19 (pCi/L)



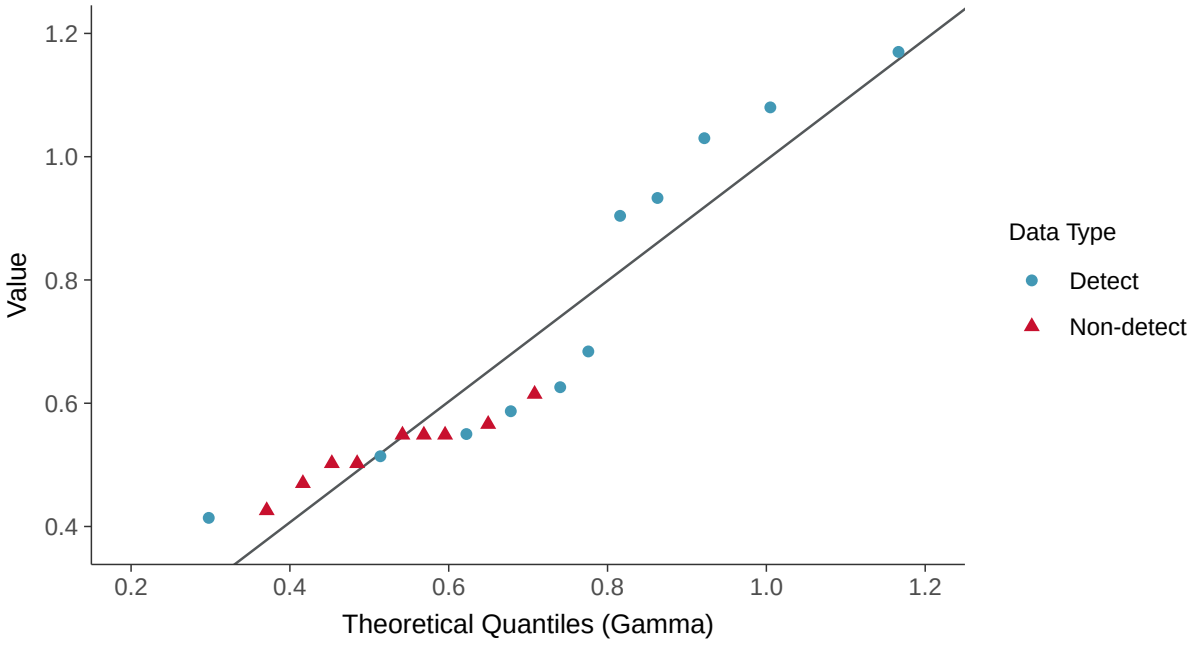
Lognormal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-19 (pCi/L)



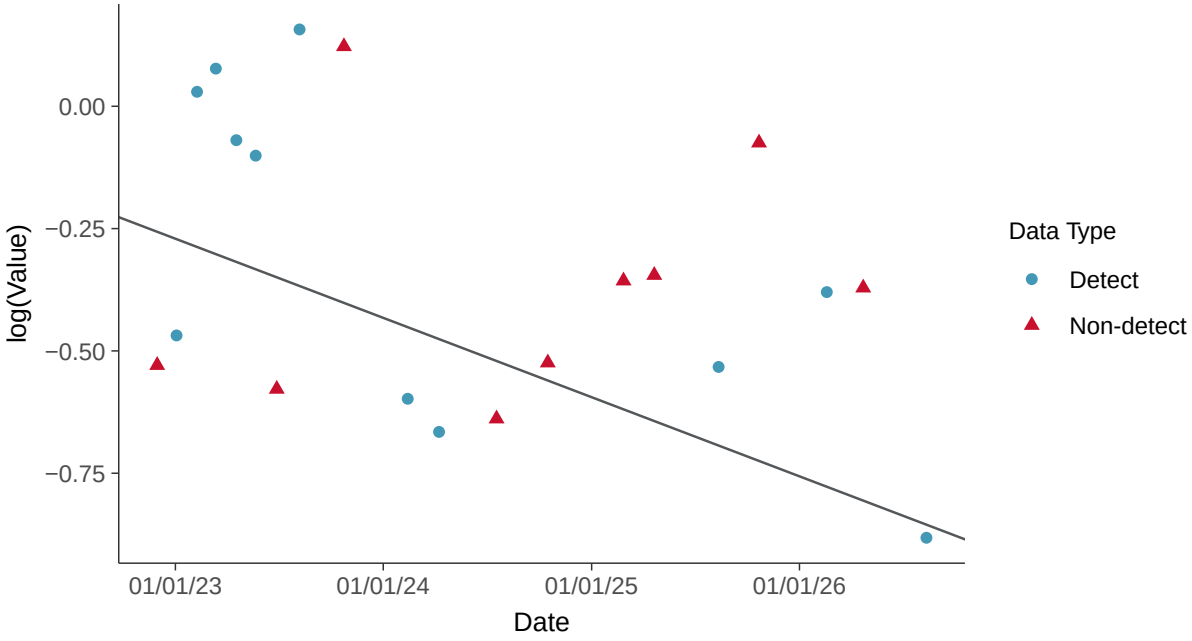
Gamma Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-19 (pCi/L)



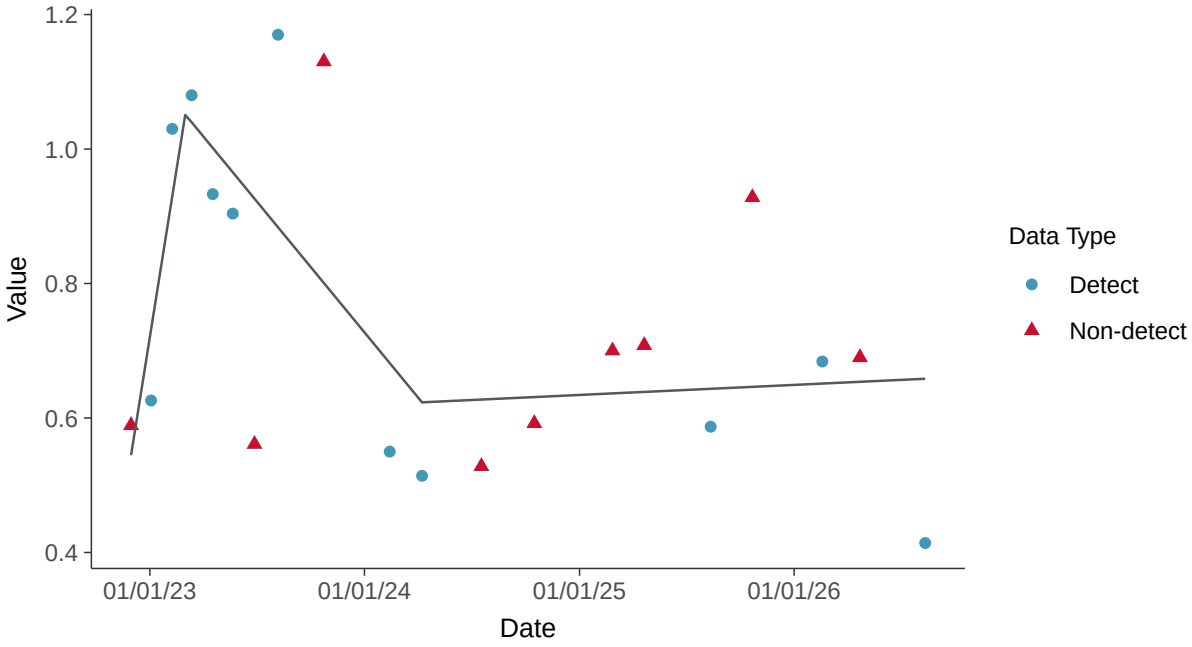
Trend Regression: Lognormal MLE

Radium 226 and 228, MW-19 (pCi/L)



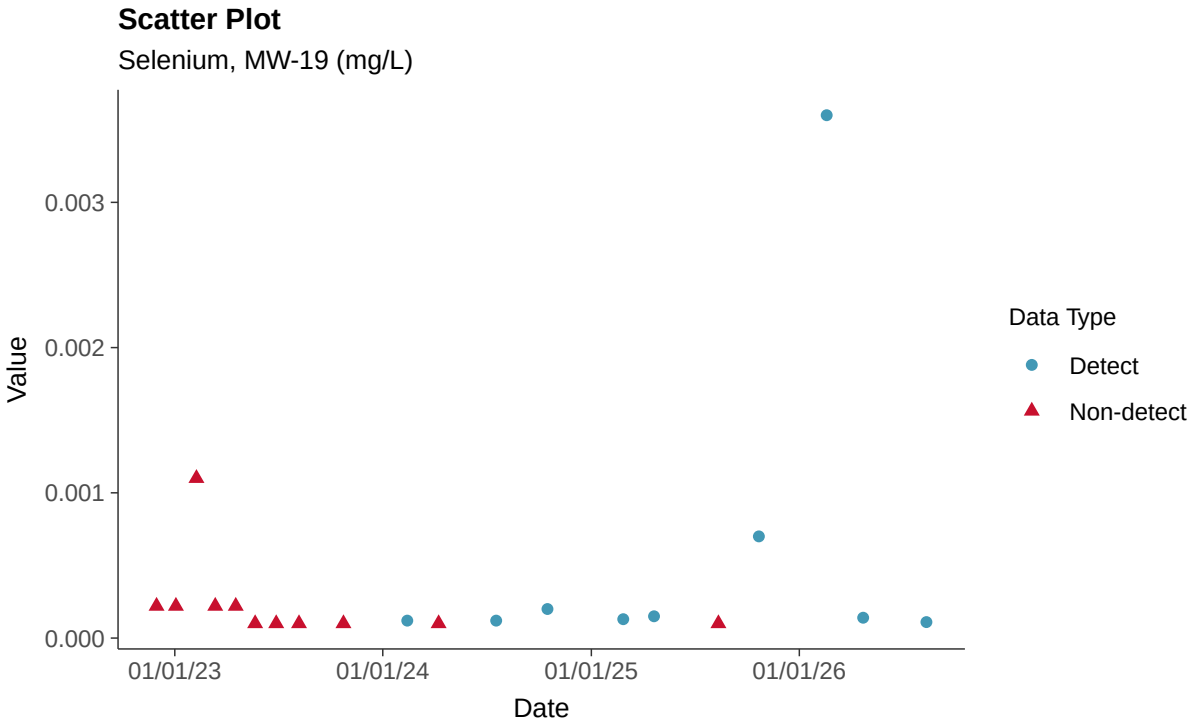
Trend Regression: Piecewise Linear-Linear-Linear

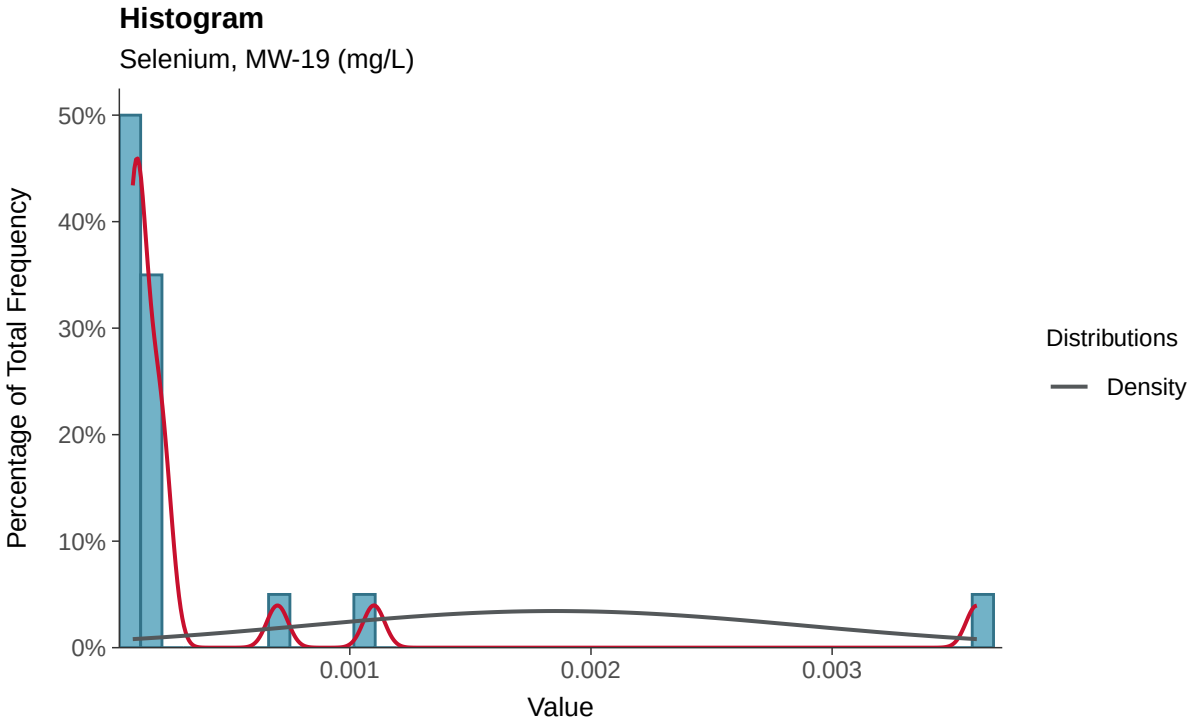
Radium 226 and 228, MW-19 (pCi/L)



Appendix IV: Selenium, MW-19

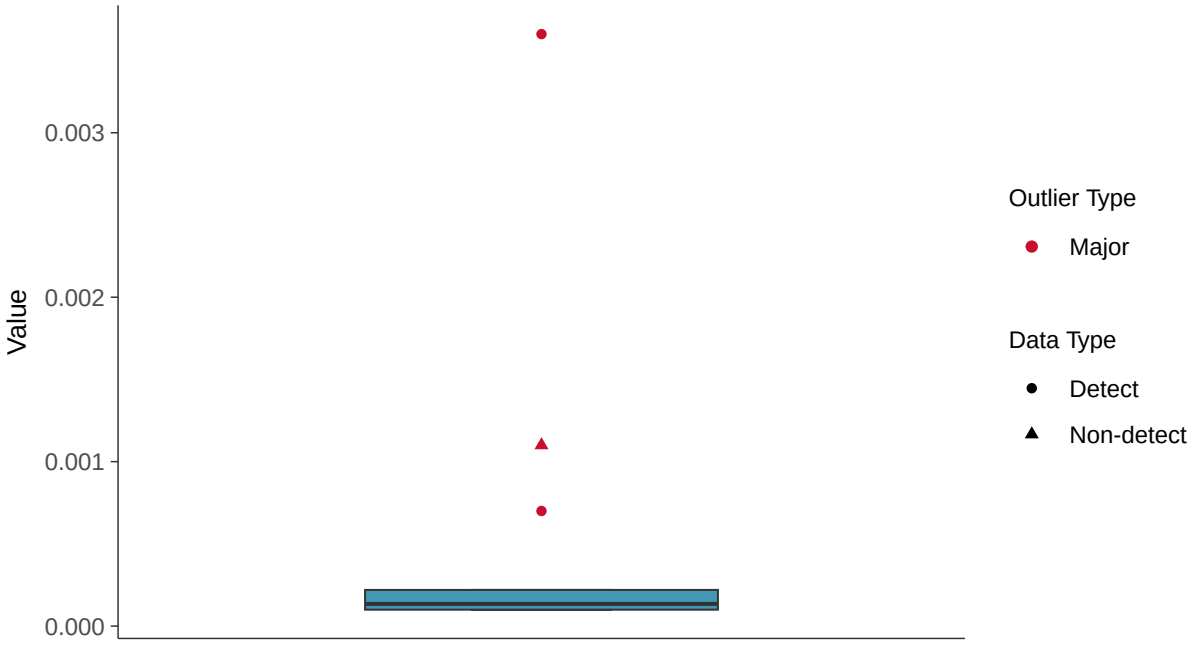
ID: 29_1_4_122





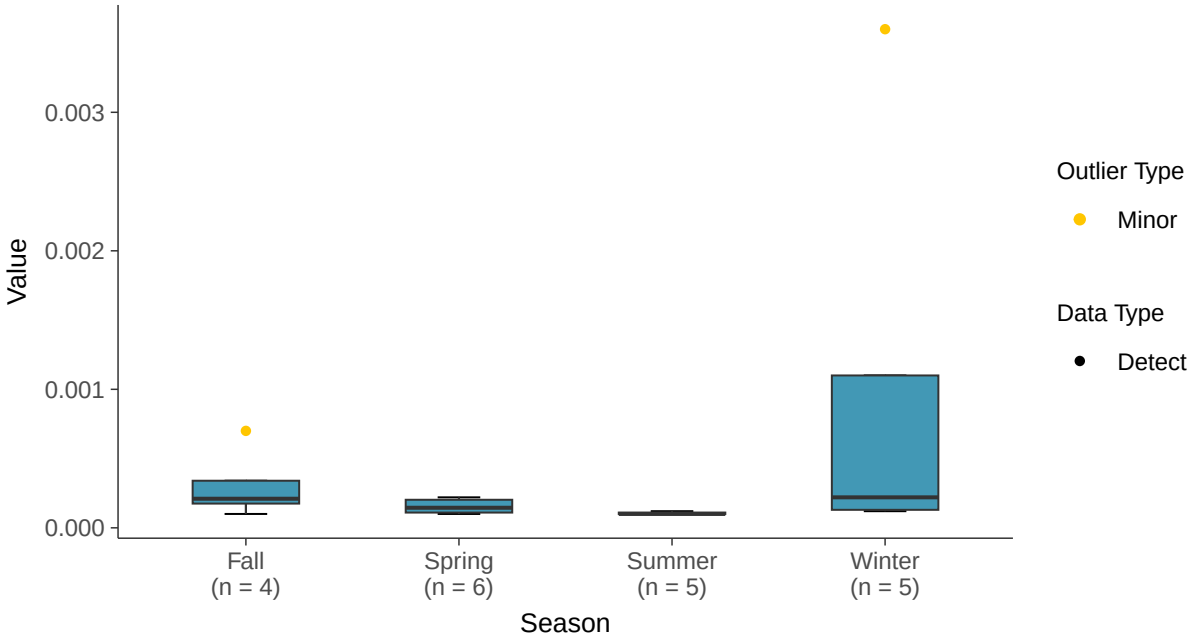
Boxplot

Selenium, MW-19 (mg/L)



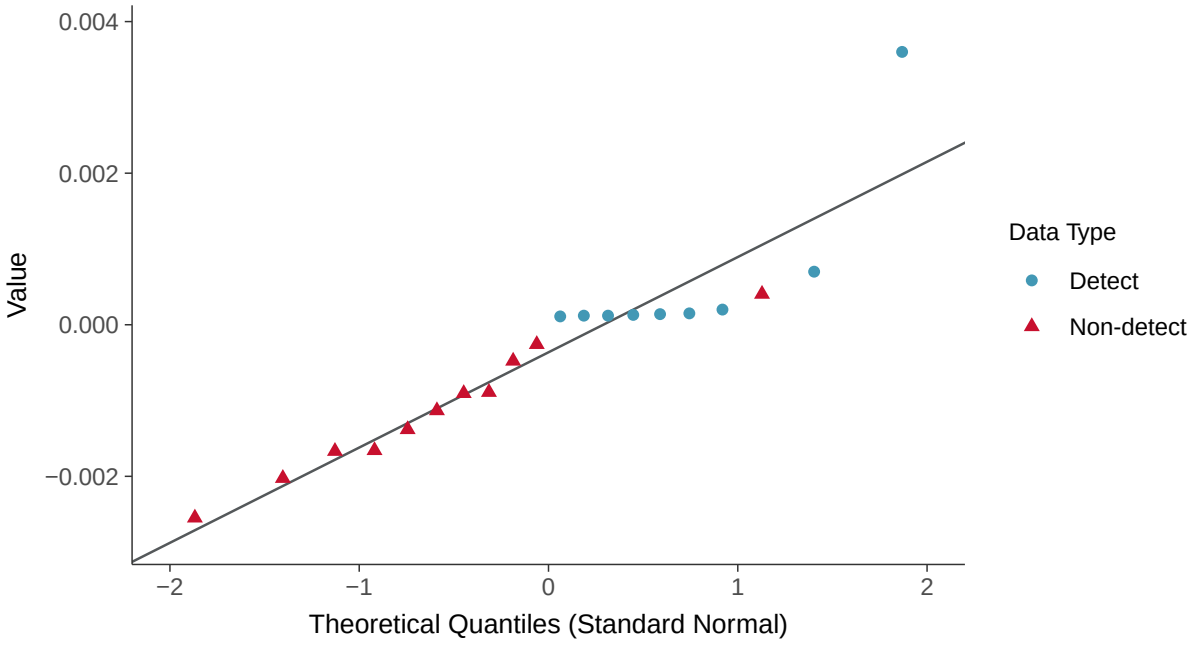
Boxplot by Season

Selenium, MW-19 (mg/L)



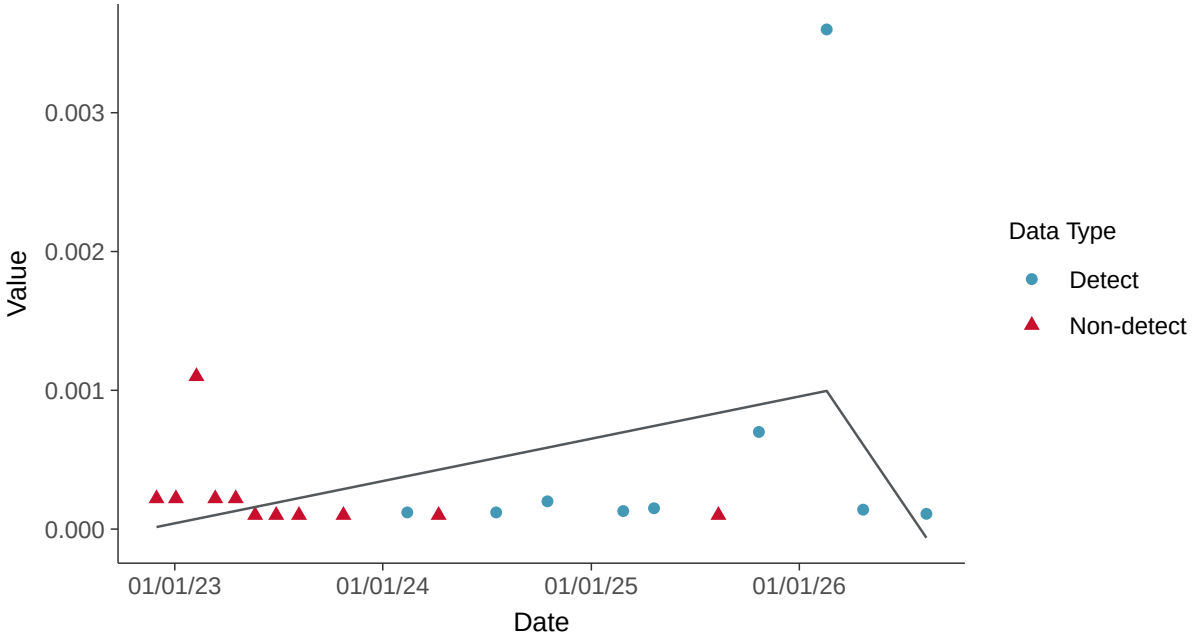
Normal Q-Q plot using ROS Imputed Estimates

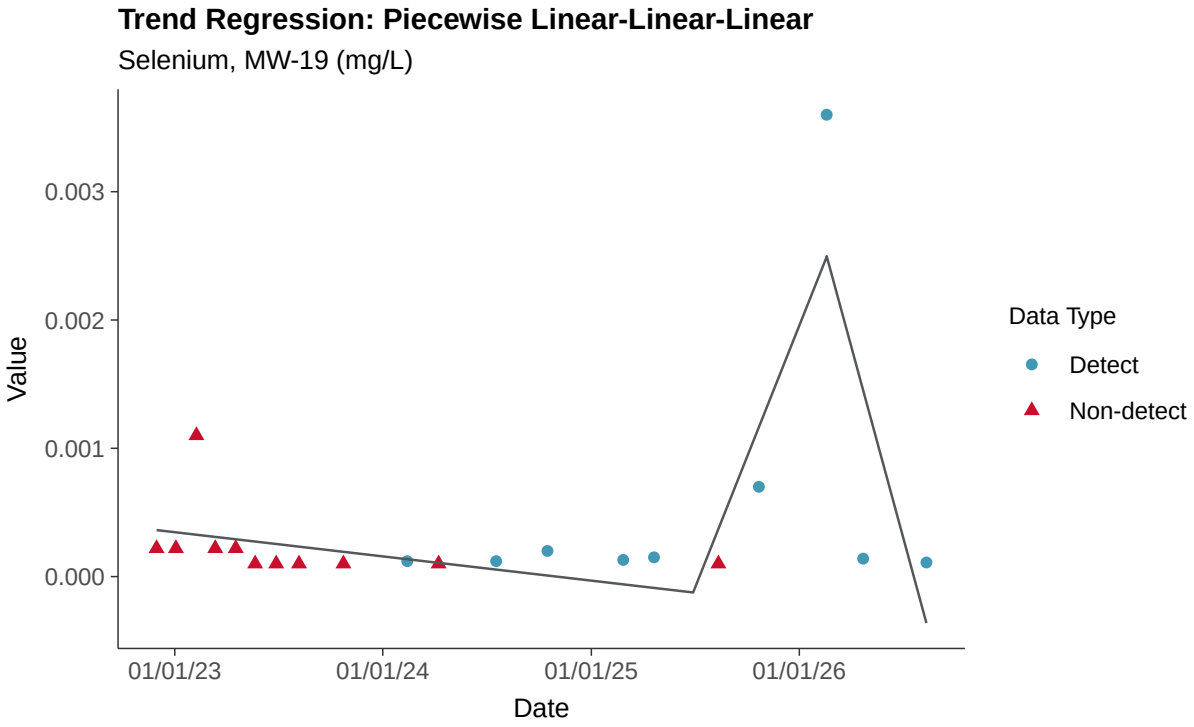
Selenium, MW-19 (mg/L)



Trend Regression: Piecewise Linear-Linear

Selenium, MW-19 (mg/L)



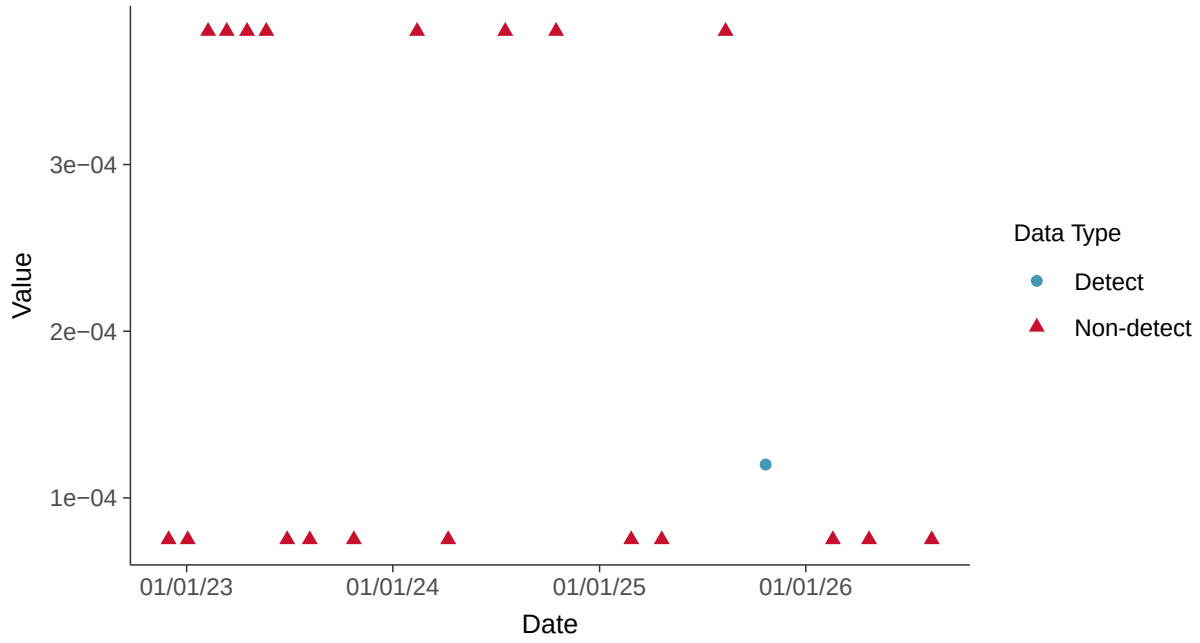

Trend Regression: Piecewise Linear-Linear-Linear
Selenium, MW-19 (mg/L)
Value
0.003
0.002
0.001
0.000
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect
Non-detect

Appendix IV: Thallium, MW-19

ID: 29_1_4_125

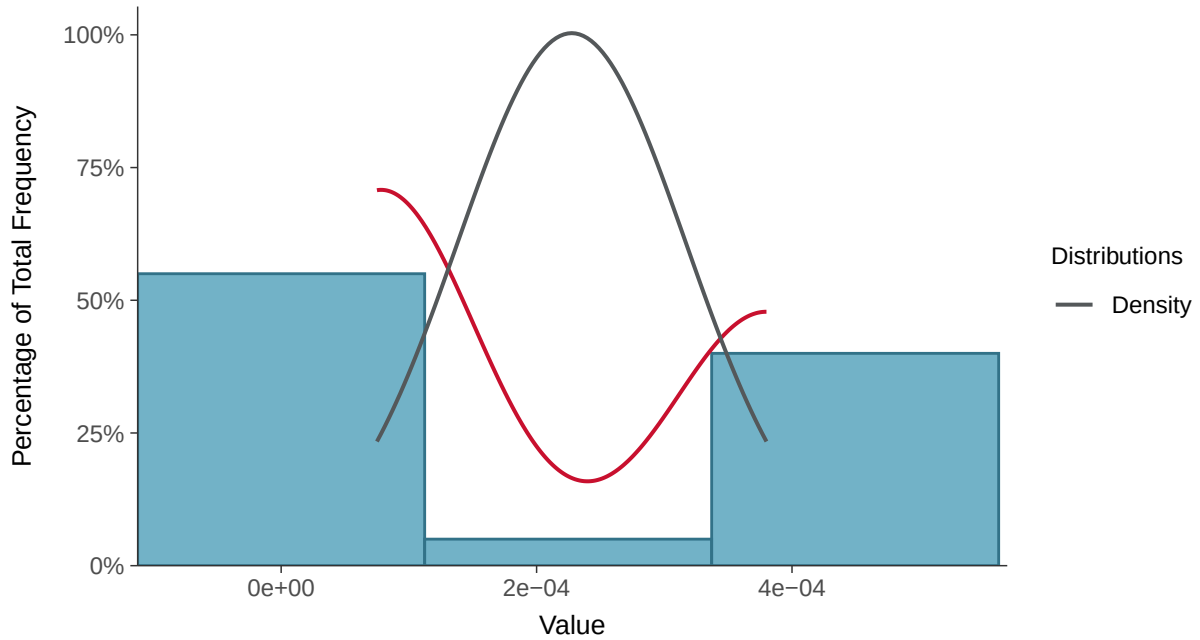
Scatter Plot

Thallium, MW-19 (mg/L)



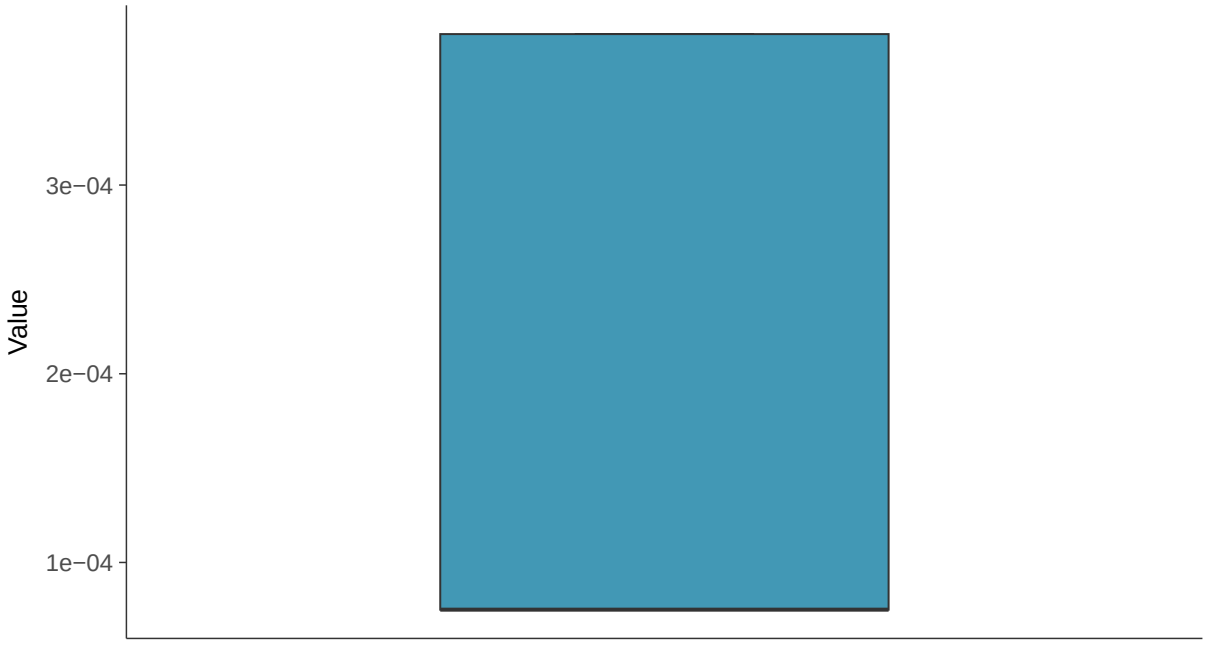
Histogram

Thallium, MW-19 (mg/L)



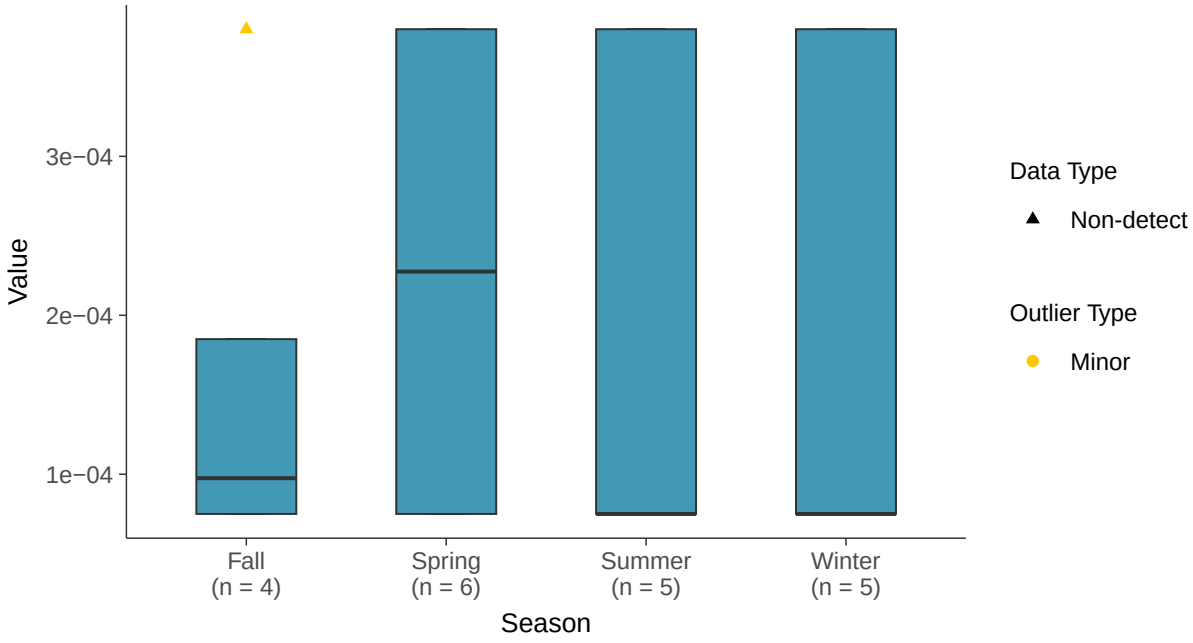
Boxplot

Thallium, MW-19 (mg/L)



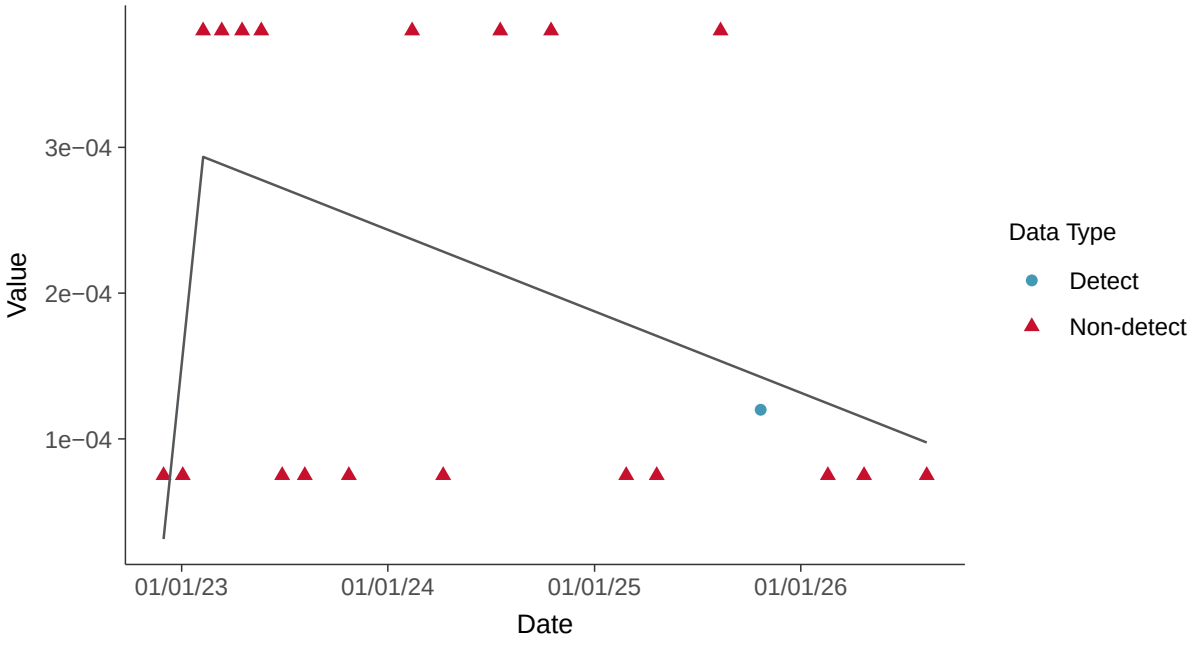
Boxplot by Season

Thallium, MW-19 (mg/L)



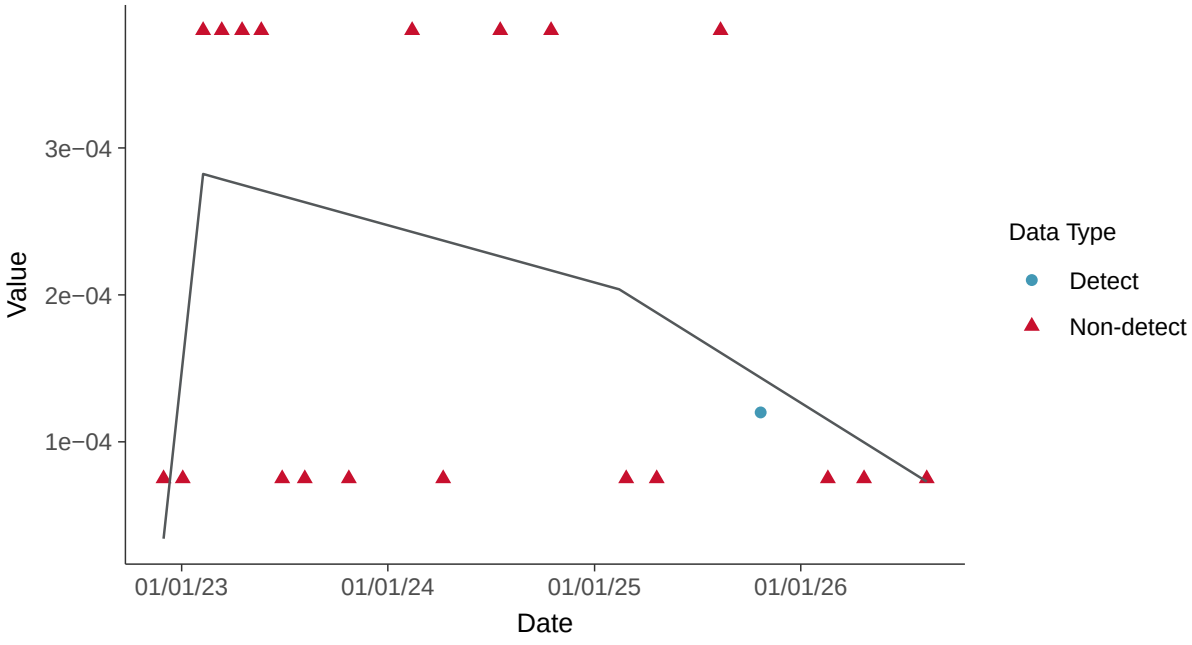
Trend Regression: Piecewise Linear-Linear

Thallium, MW-19 (mg/L)



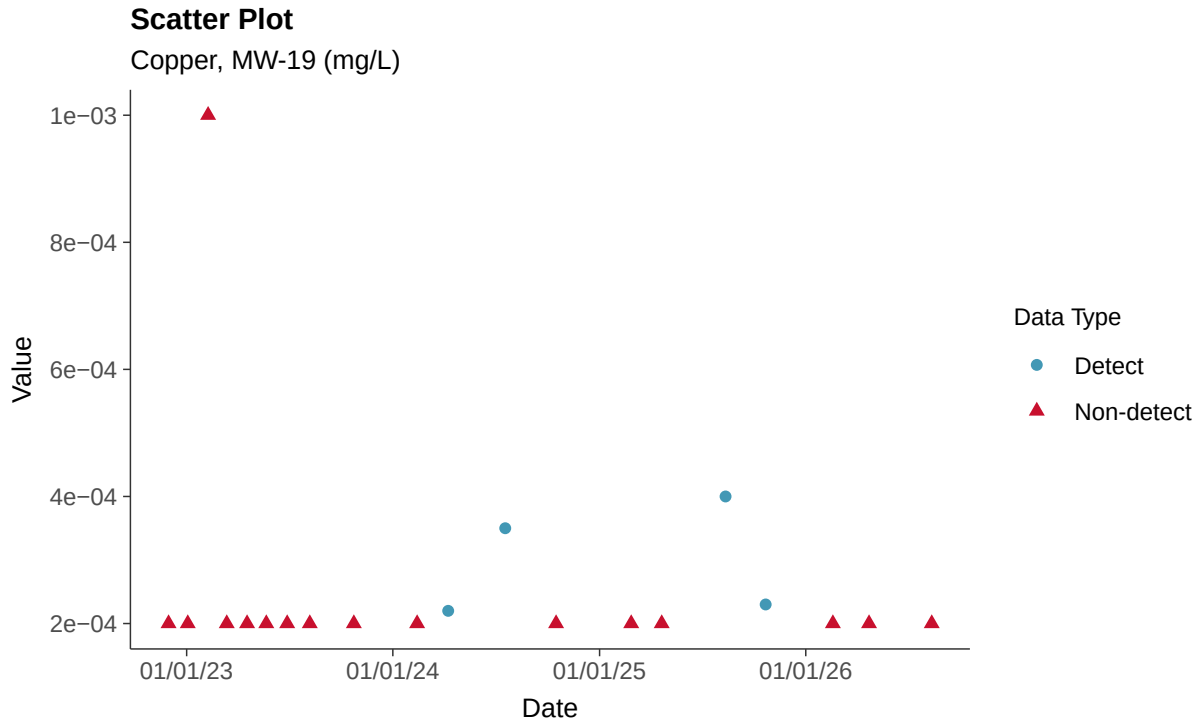
Trend Regression: Piecewise Linear-Linear-Linear

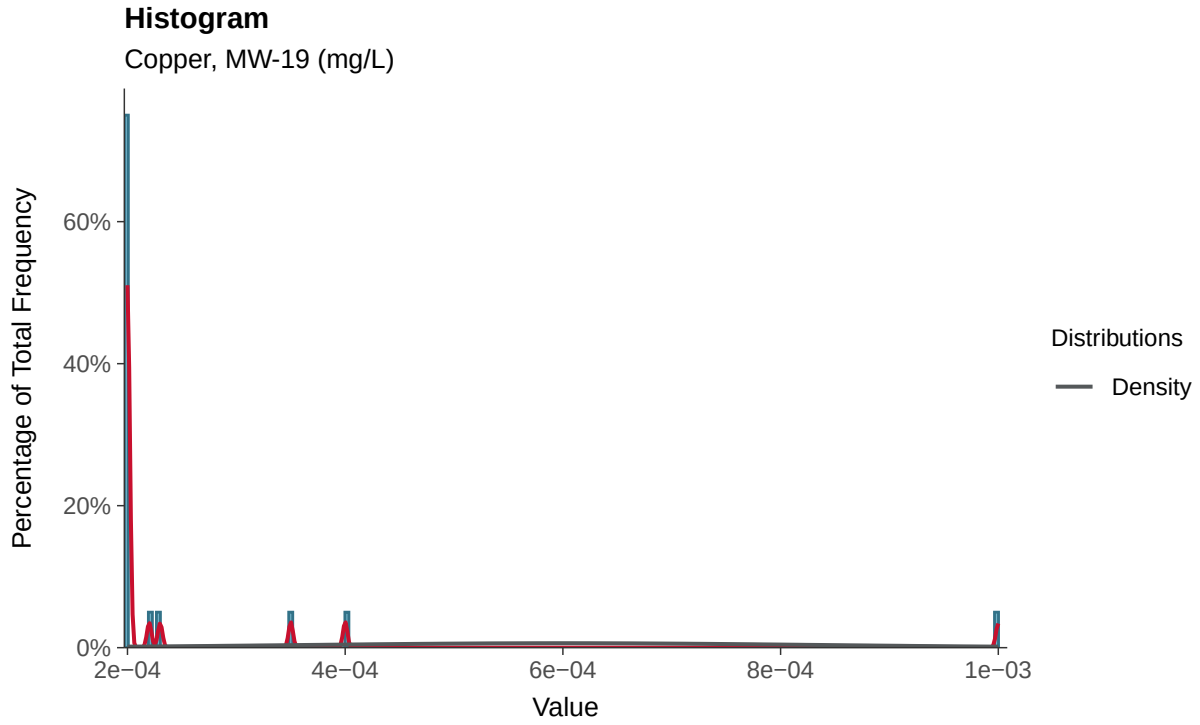
Thallium, MW-19 (mg/L)



Part 115: Copper, MW-19

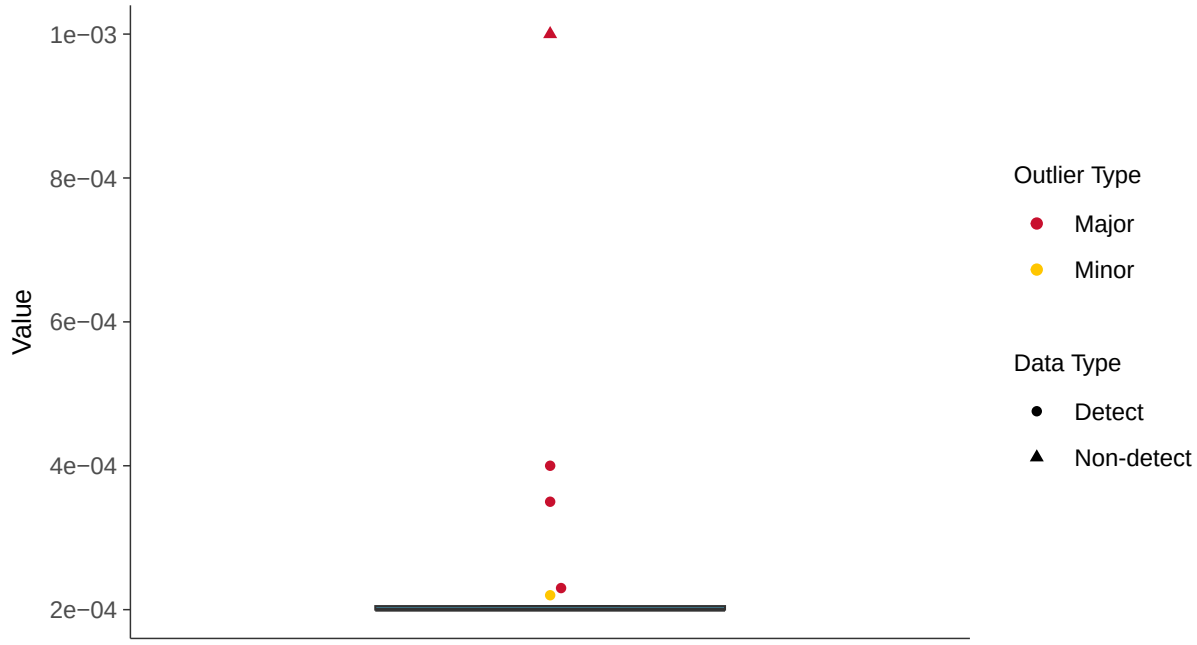
ID: 29_1_5_111





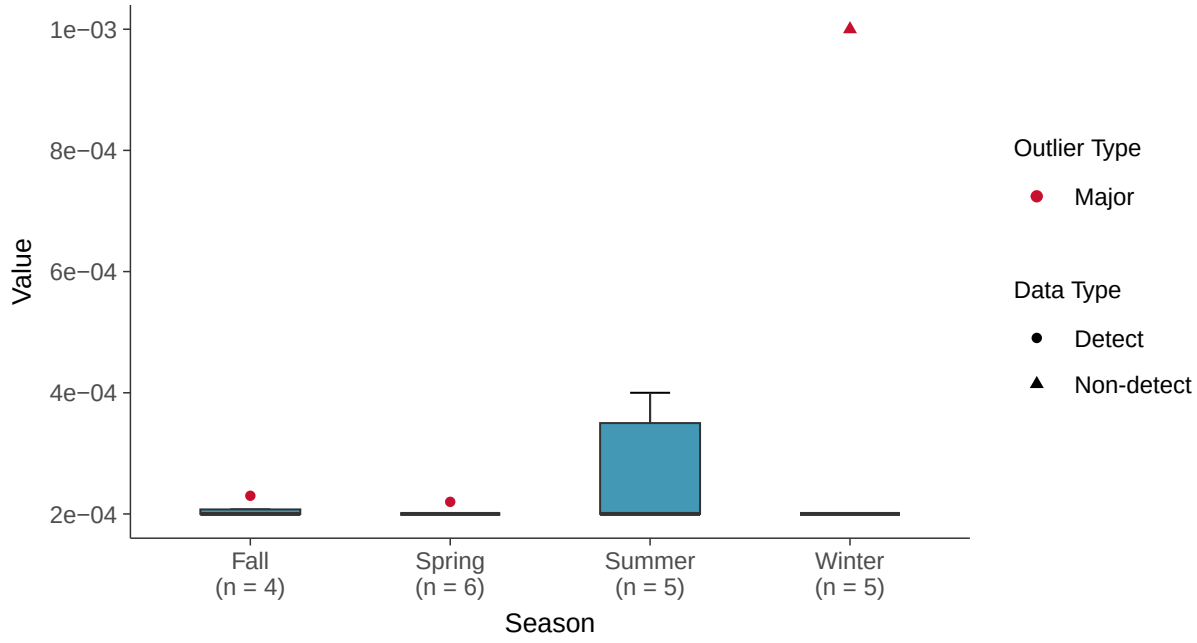
Boxplot

Copper, MW-19 (mg/L)



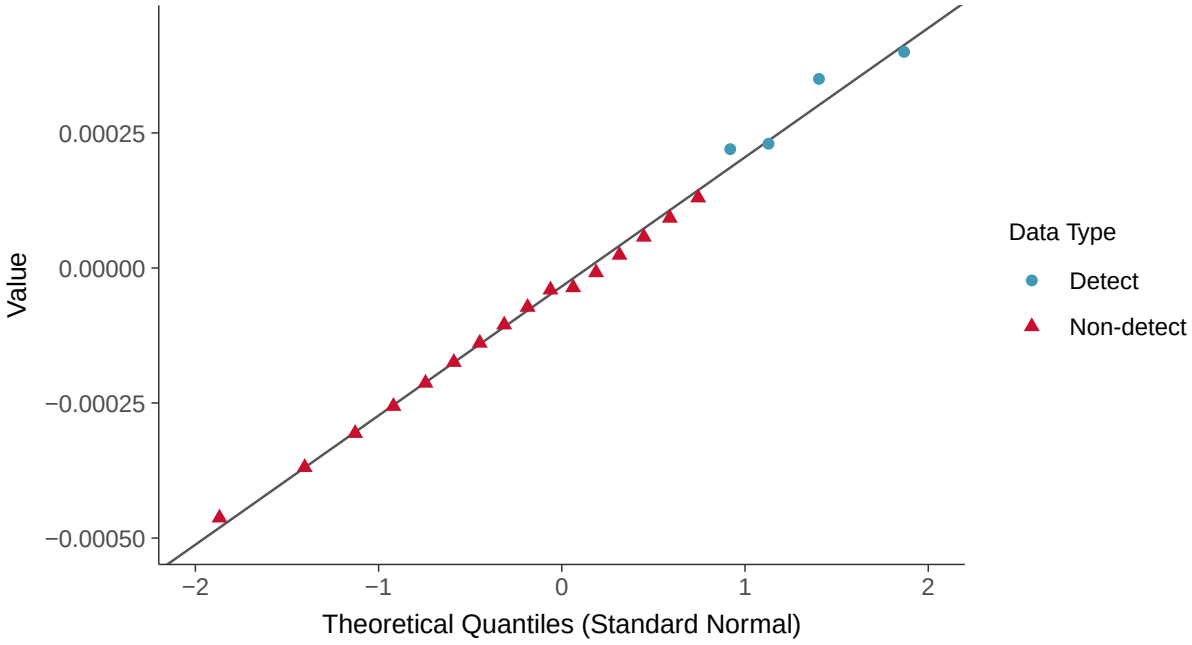
Boxplot by Season

Copper, MW-19 (mg/L)



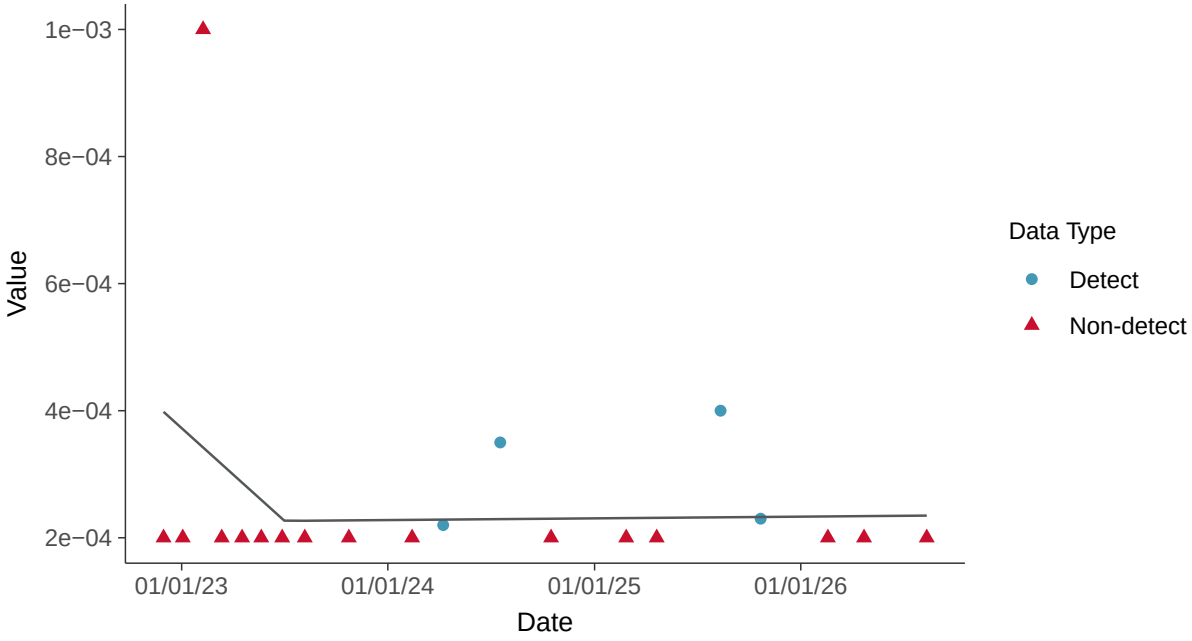
Normal Q-Q plot using ROS Imputed Estimates

Copper, MW-19 (mg/L)



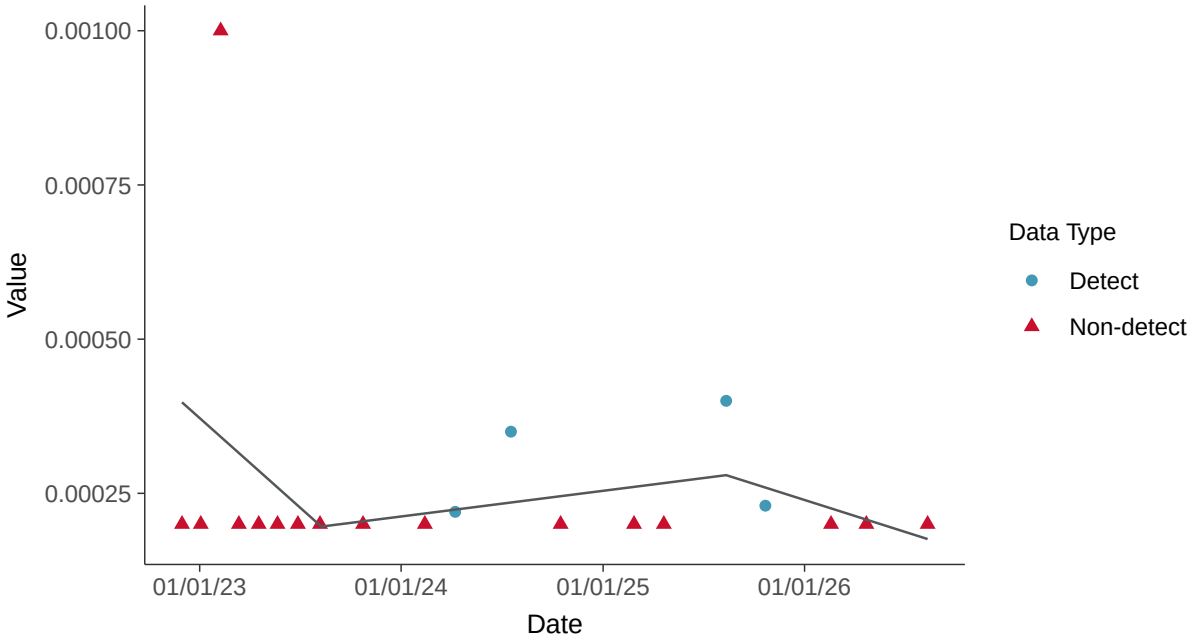
Trend Regression: Piecewise Linear-Linear

Copper, MW-19 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Copper, MW-19 (mg/L)

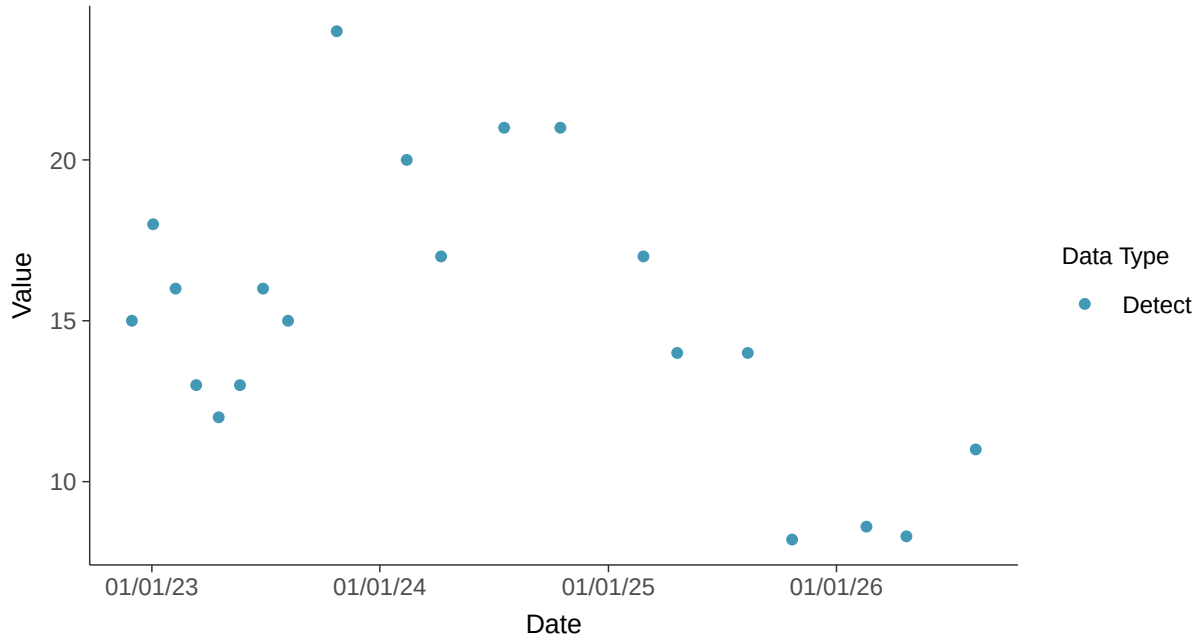


Part 115: Iron, MW-19

ID: 29_1_5_114

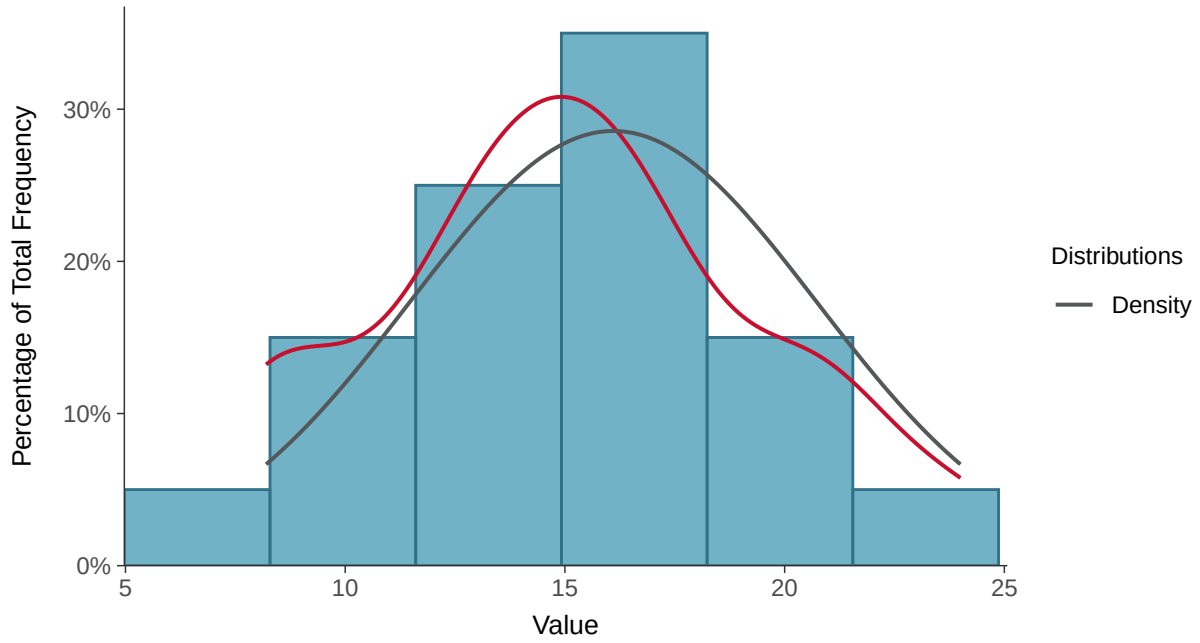
Scatter Plot

Iron, MW-19 (mg/L)



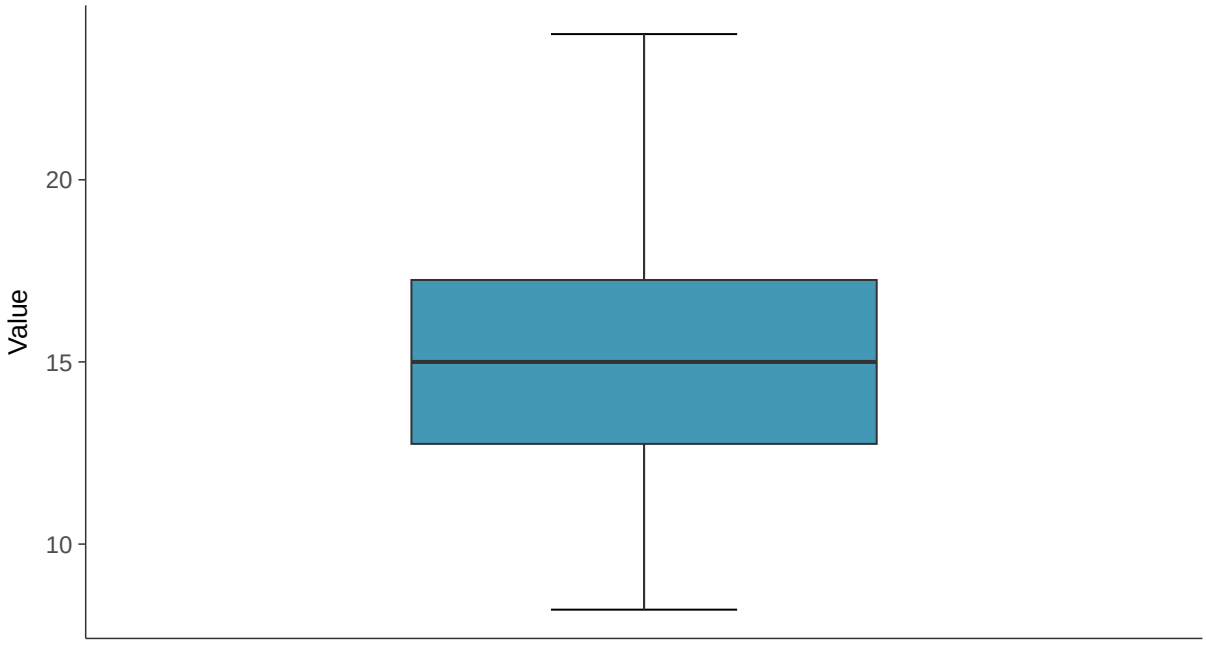
Histogram

Iron, MW-19 (mg/L)



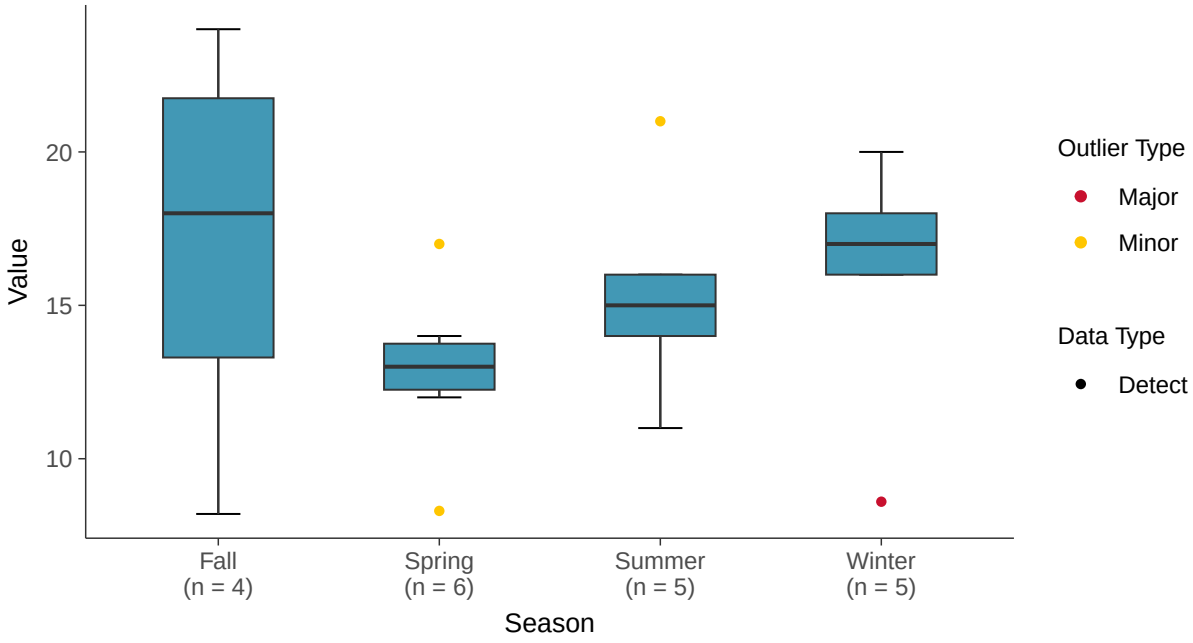
Boxplot

Iron, MW-19 (mg/L)



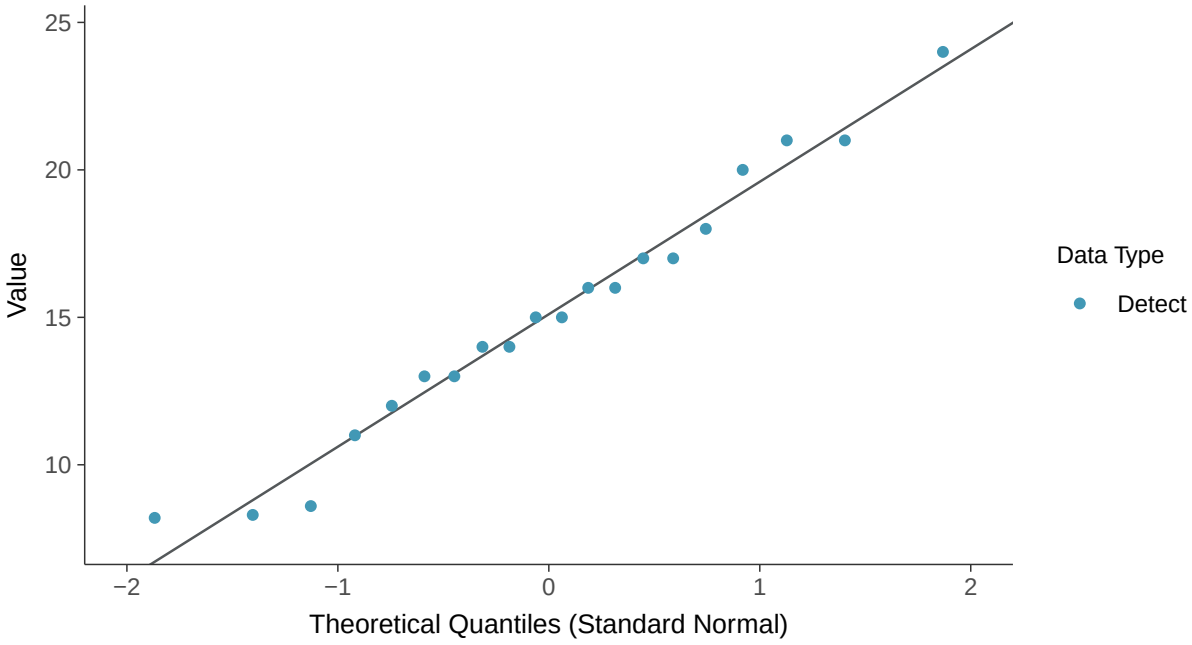
Boxplot by Season

Iron, MW-19 (mg/L)



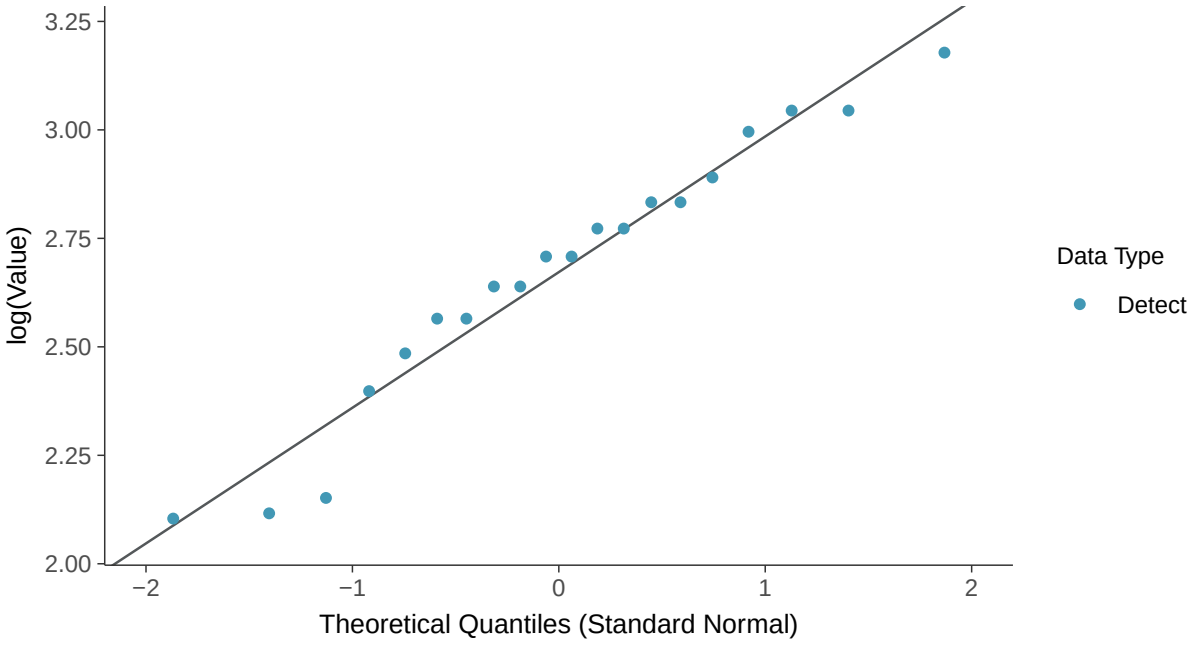
Normal Q-Q plot

Iron, MW-19 (mg/L)



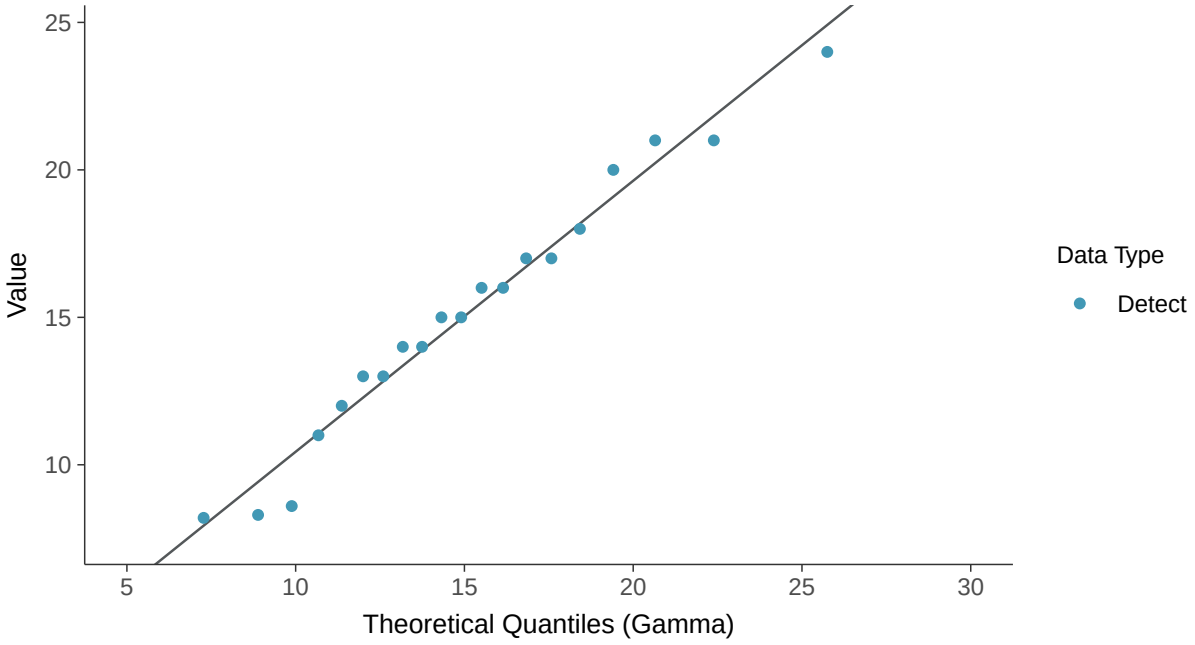
Lognormal Q-Q plot

Iron, MW-19 (mg/L)



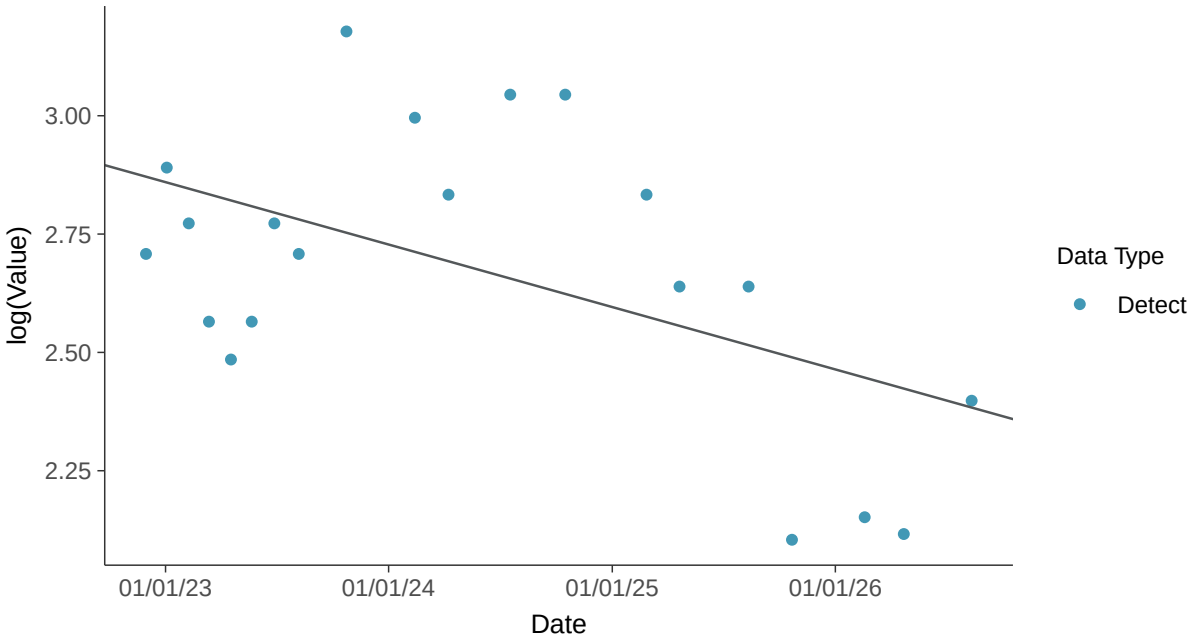
Gamma Q-Q plot

Iron, MW-19 (mg/L)



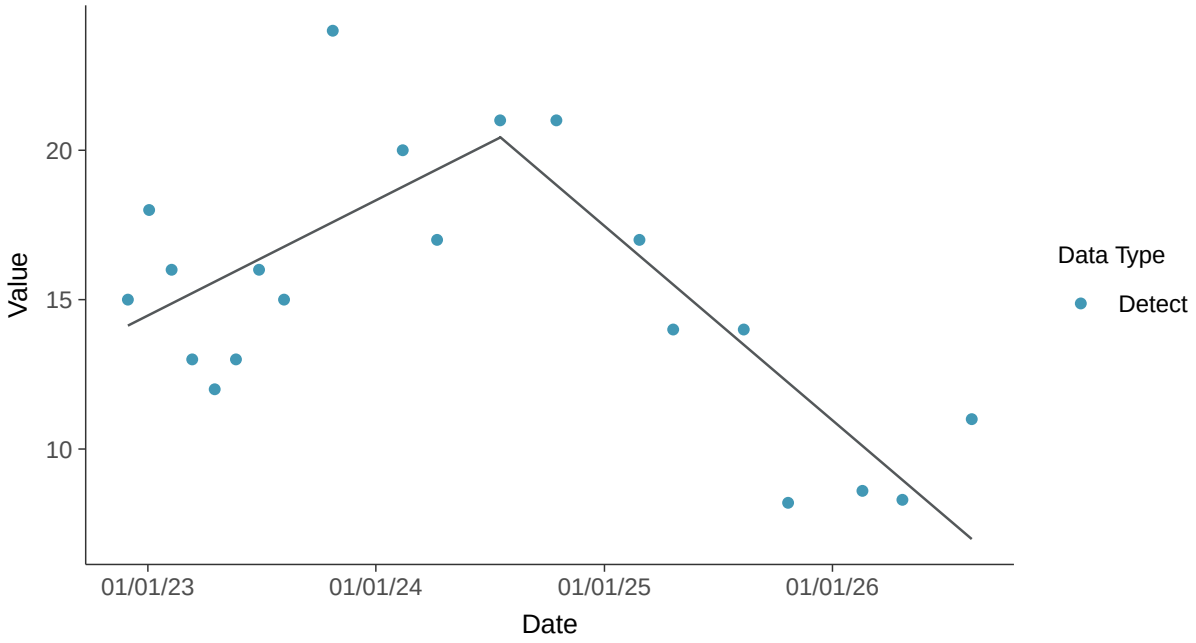
Trend Regression: Lognormal MLE

Iron, MW-19 (mg/L)



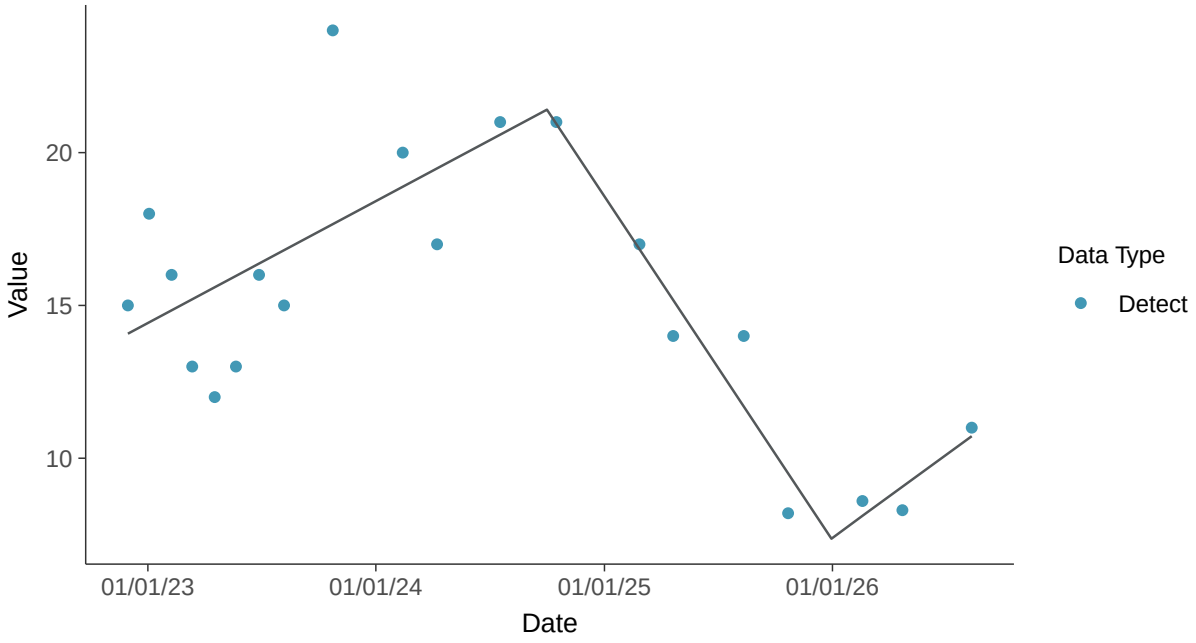
Trend Regression: Piecewise Linear-Linear

Iron, MW-19 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Iron, MW-19 (mg/L)

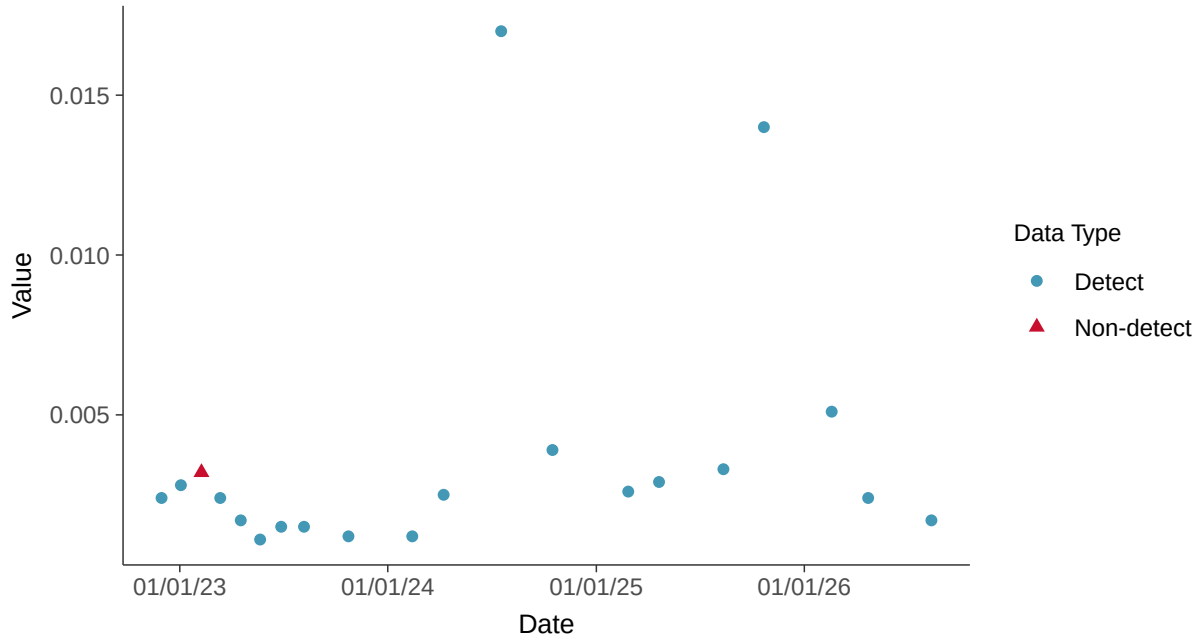


Part 115: Nickel, MW-19

ID: 29_1_5_119

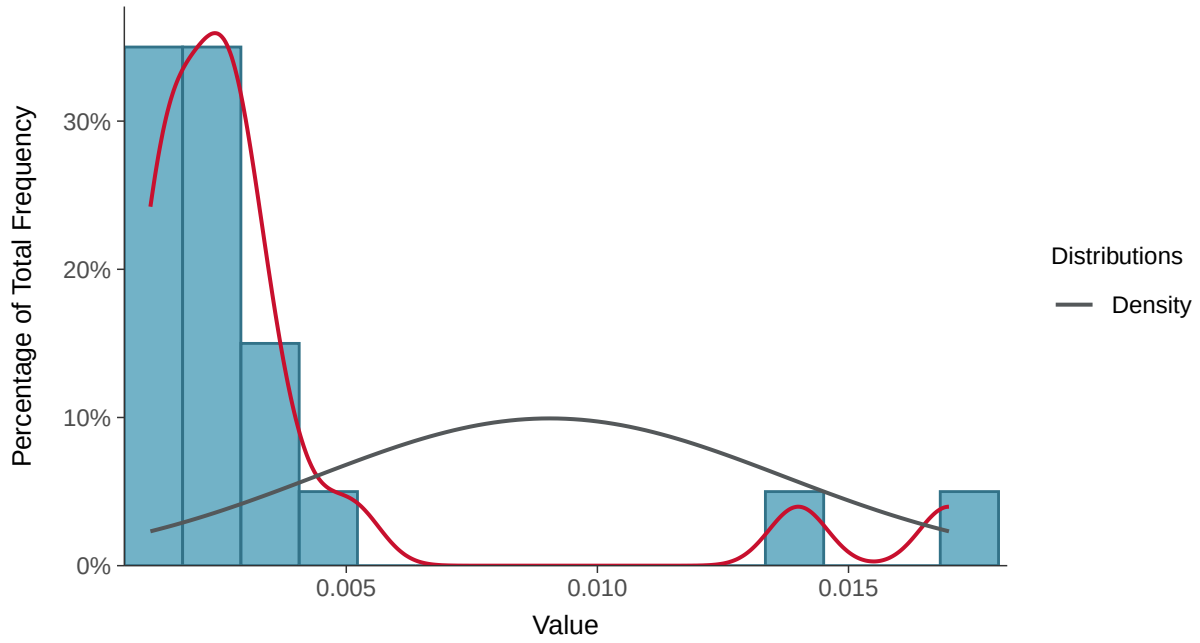
Scatter Plot

Nickel, MW-19 (mg/L)



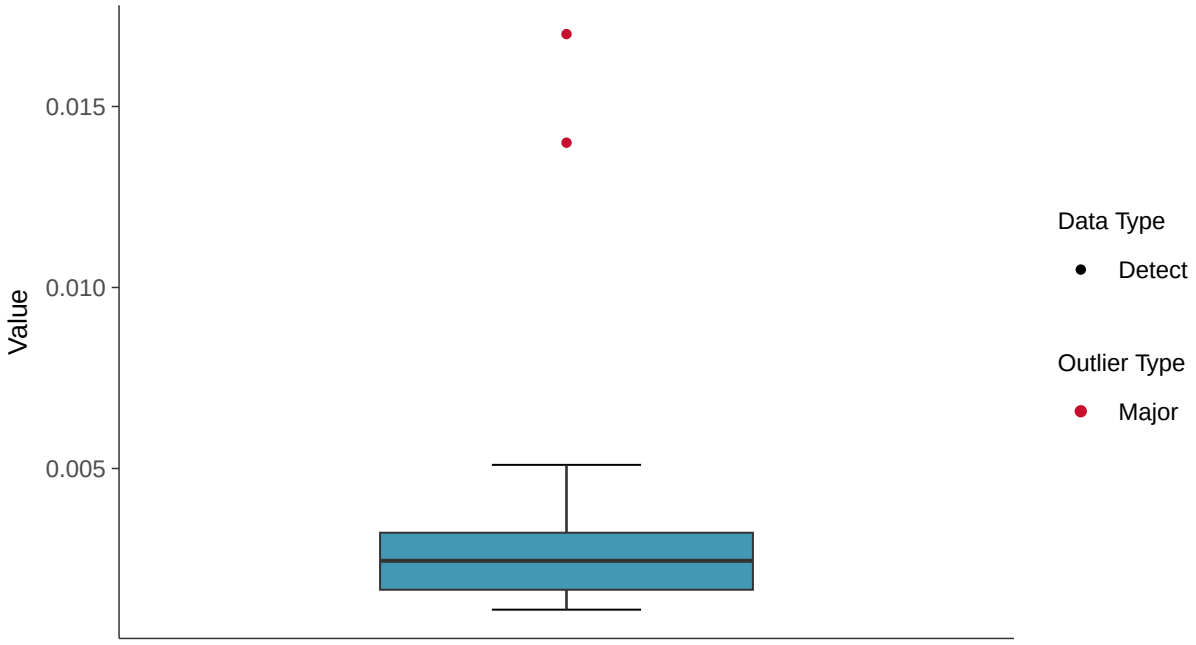
Histogram

Nickel, MW-19 (mg/L)



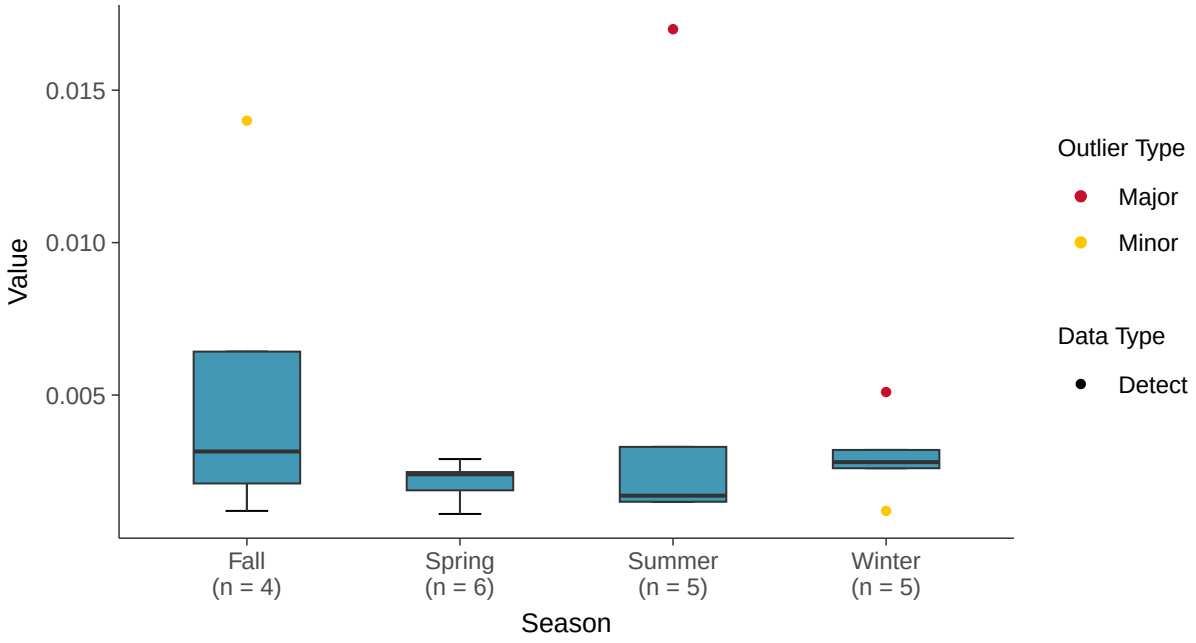
Boxplot

Nickel, MW-19 (mg/L)



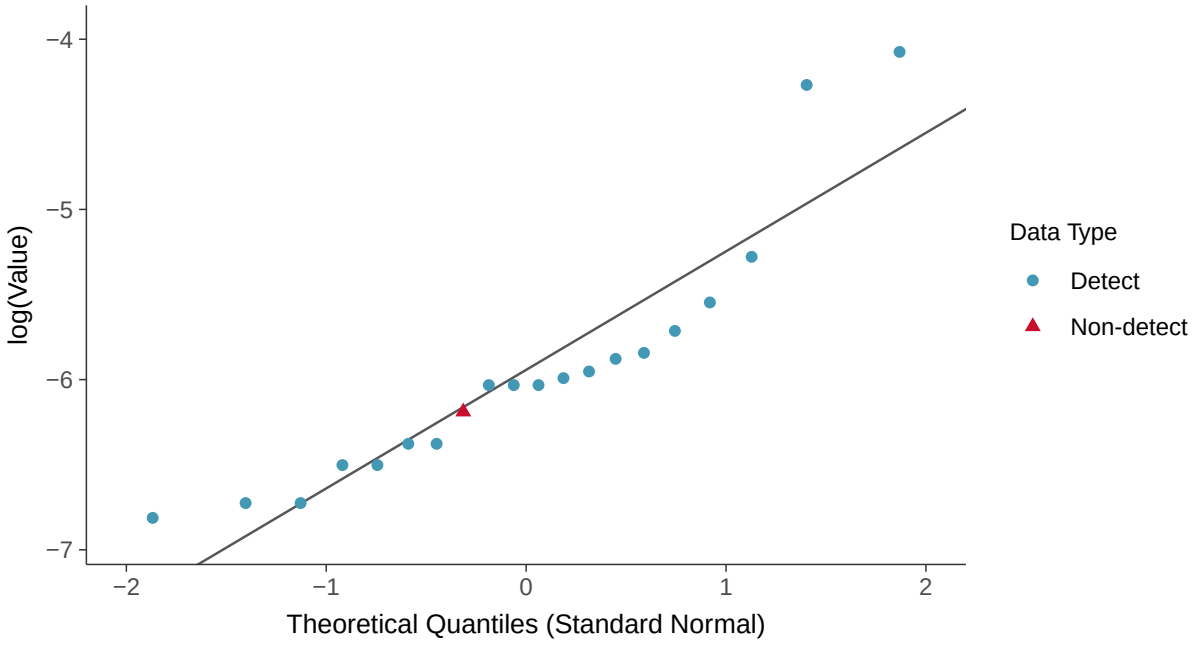
Boxplot by Season

Nickel, MW-19 (mg/L)



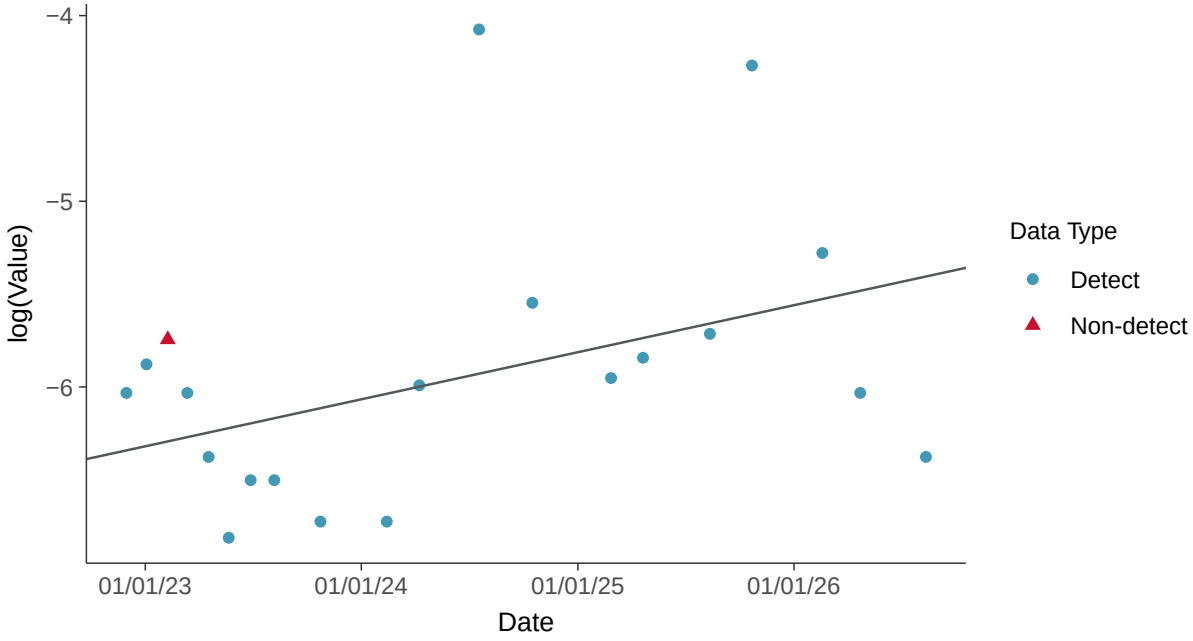
Lognormal Q-Q plot using ROS Imputed Estimates

Nickel, MW-19 (mg/L)



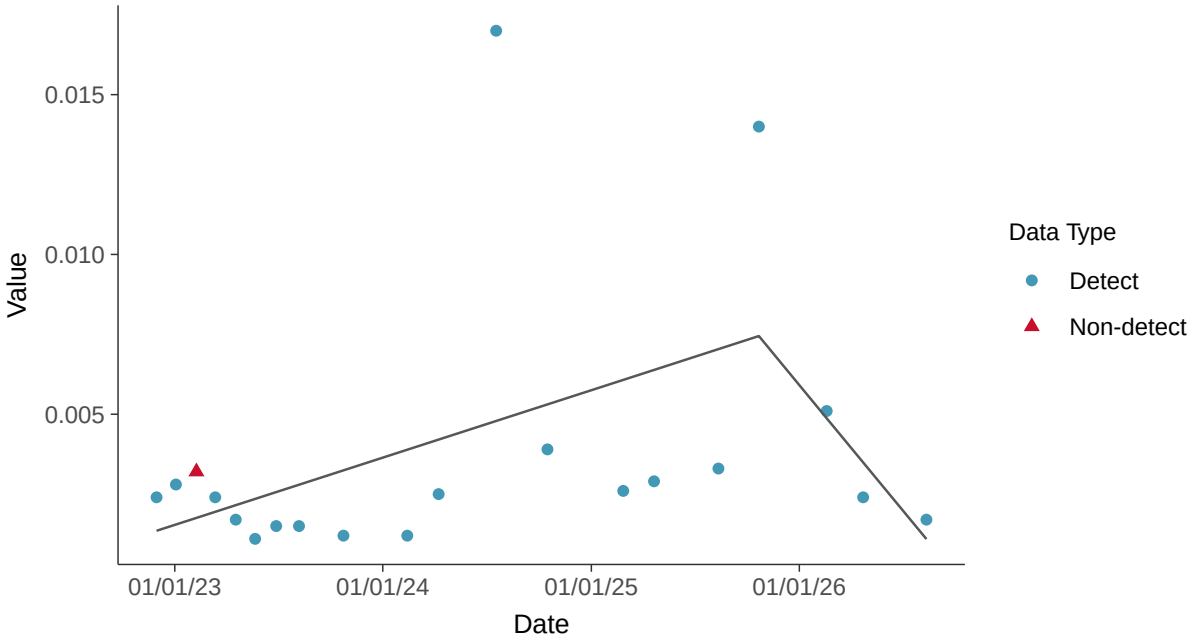
Trend Regression: Lognormal MLE

Nickel, MW-19 (mg/L)



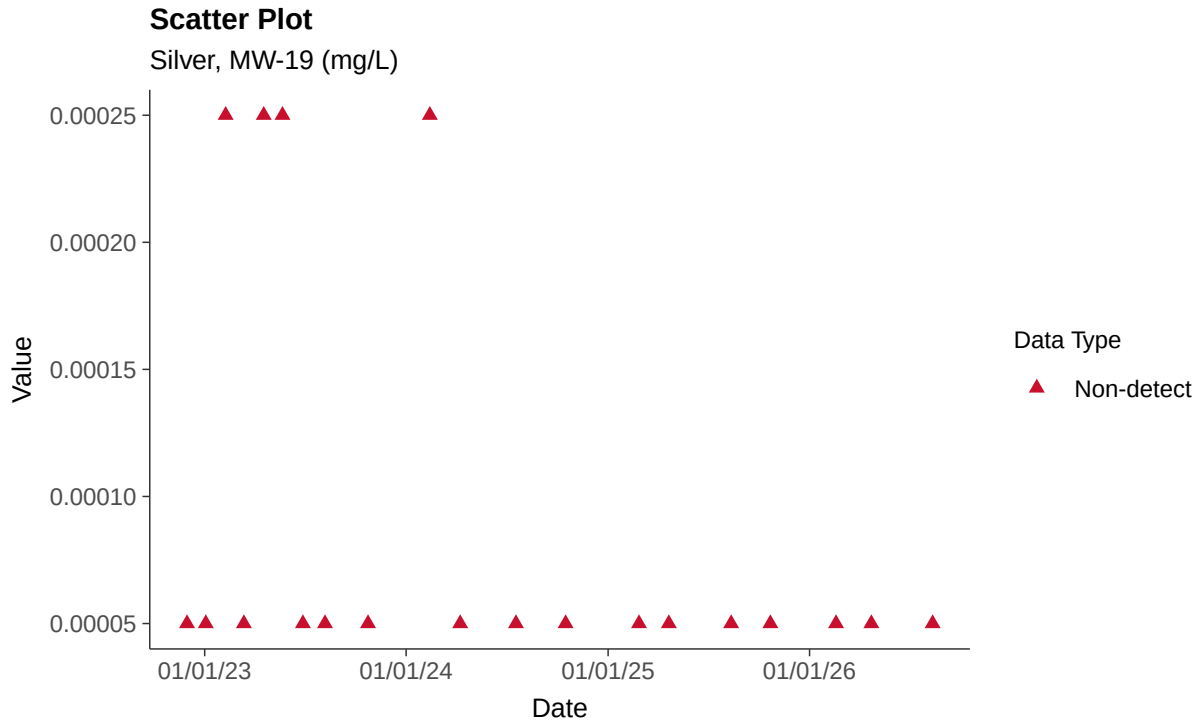
Trend Regression: Piecewise Linear-Linear

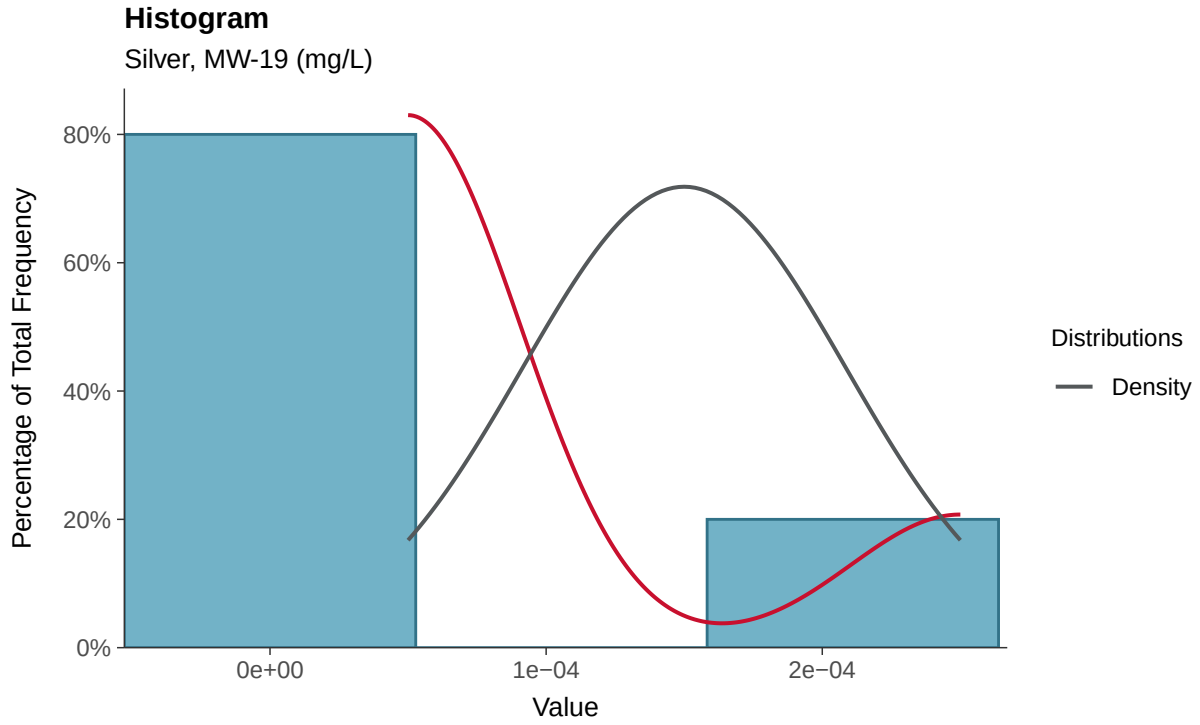
Nickel, MW-19 (mg/L)



Part 115: Silver, MW-19

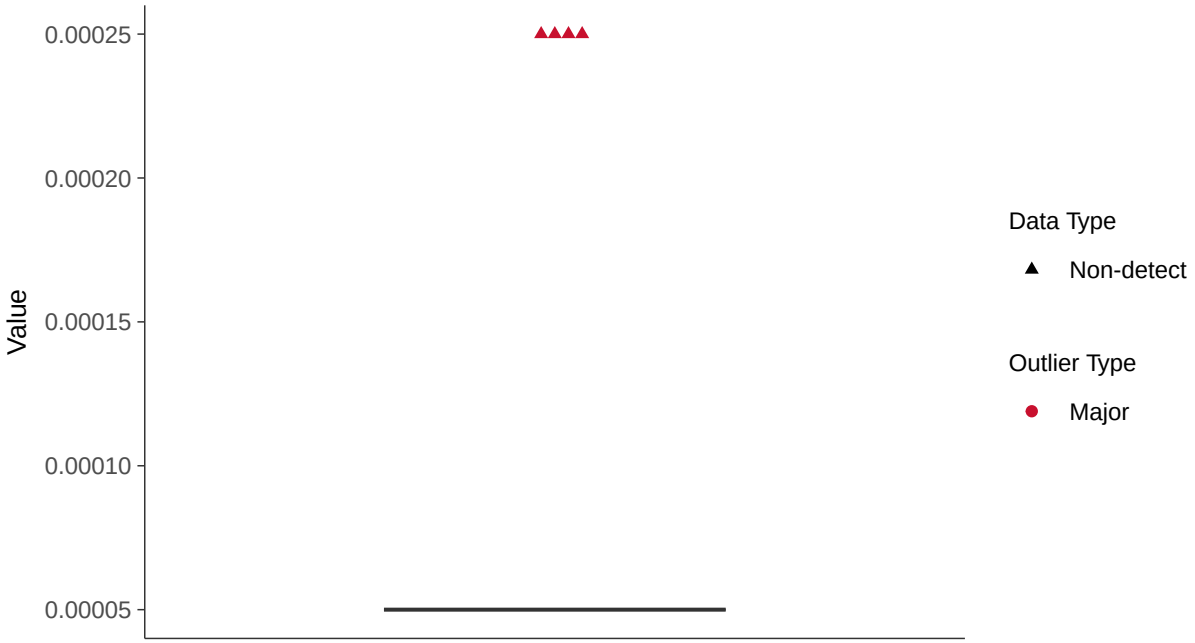
ID: 29_1_5_123





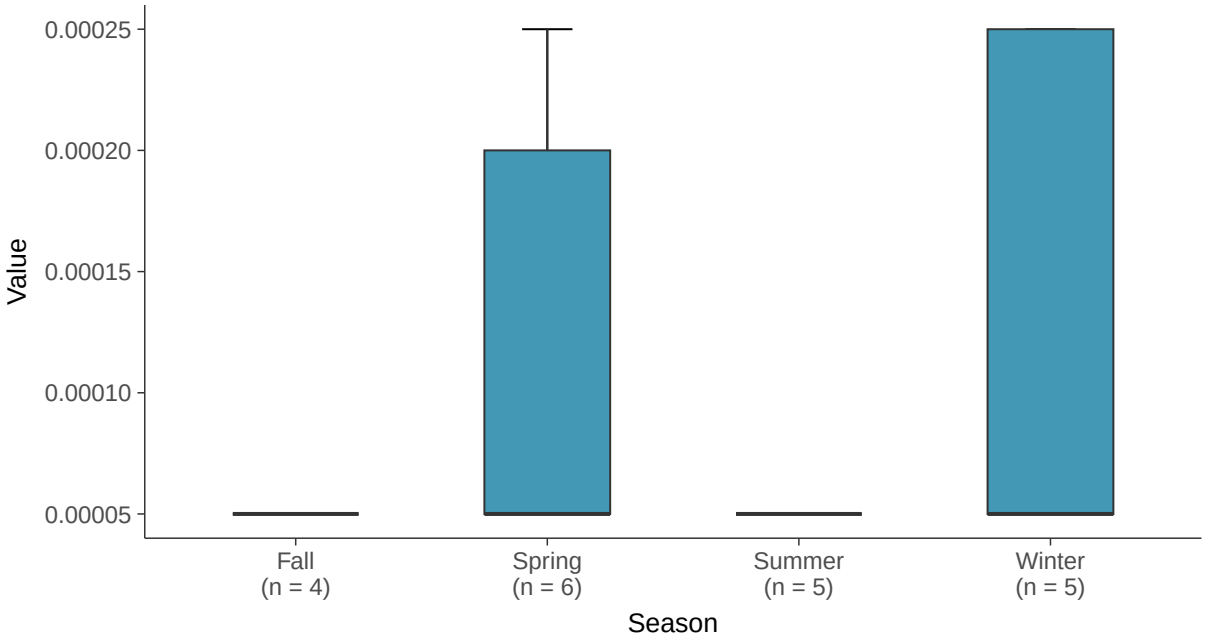
Boxplot

Silver, MW-19 (mg/L)



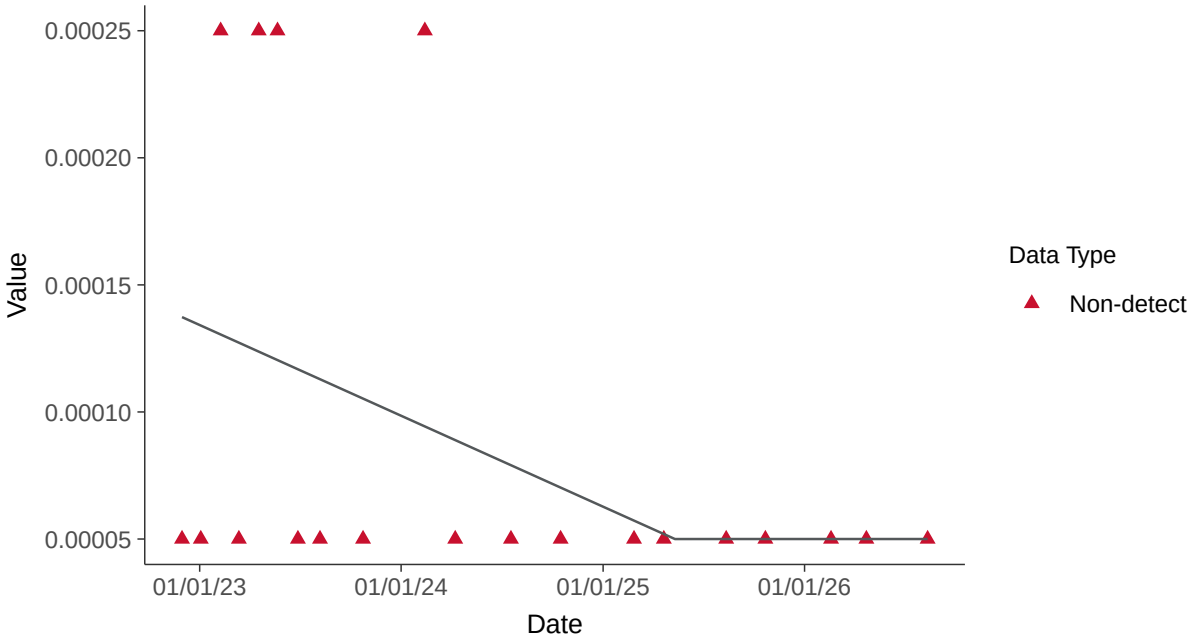
Boxplot by Season

Silver, MW-19 (mg/L)



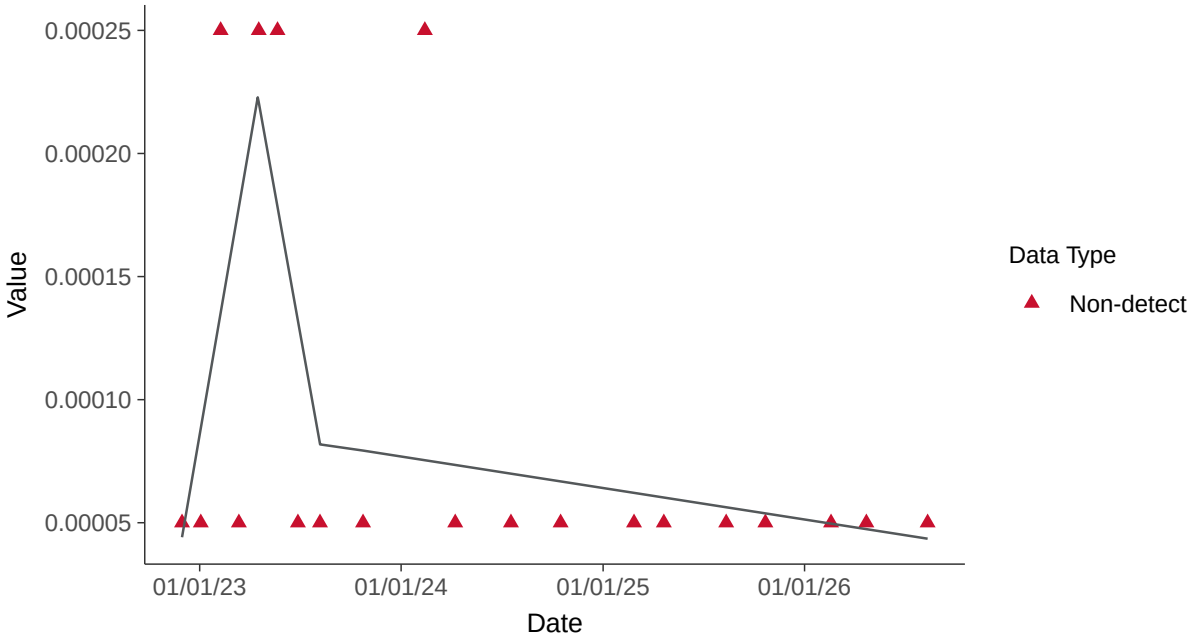
Trend Regression: Piecewise Linear-Linear

Silver, MW-19 (mg/L)



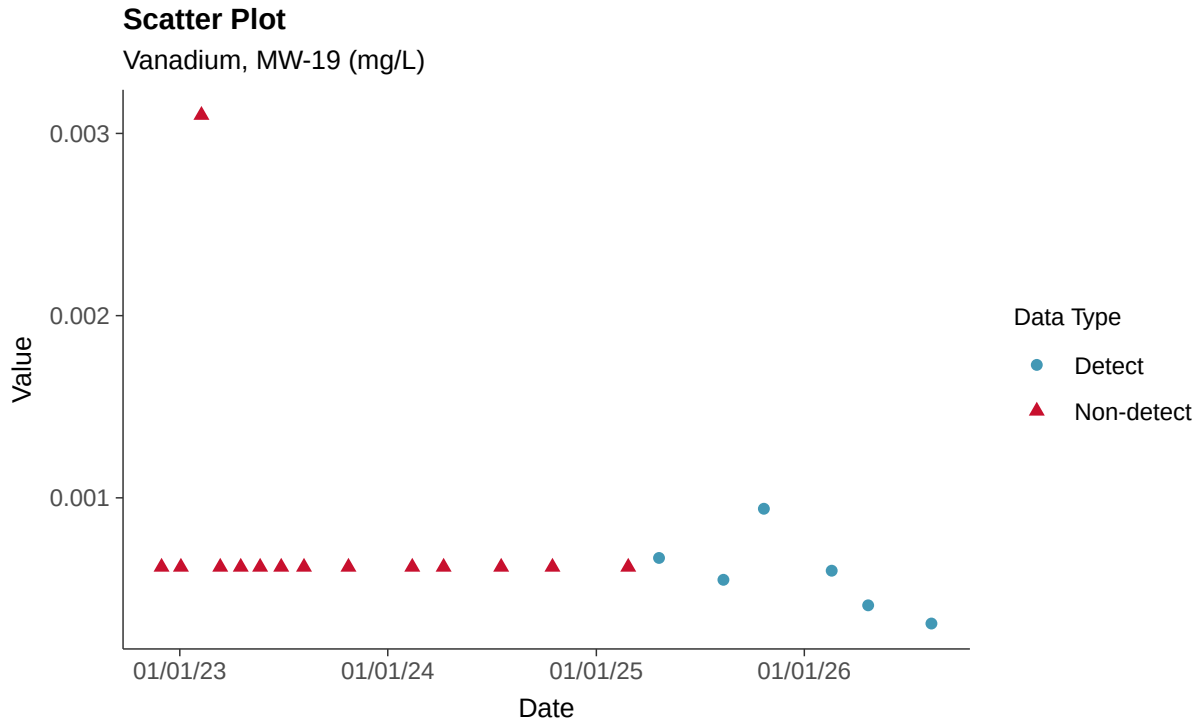
Trend Regression: Piecewise Linear-Linear-Linear

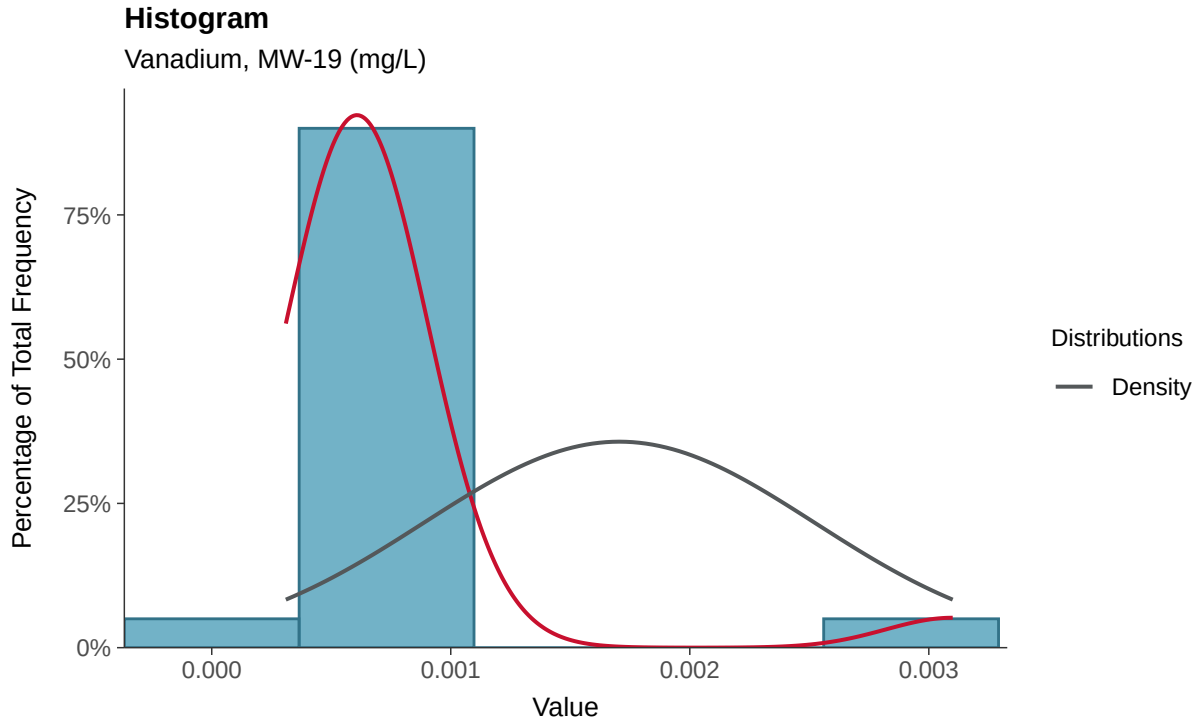
Silver, MW-19 (mg/L)



Part 115: Vanadium, MW-19

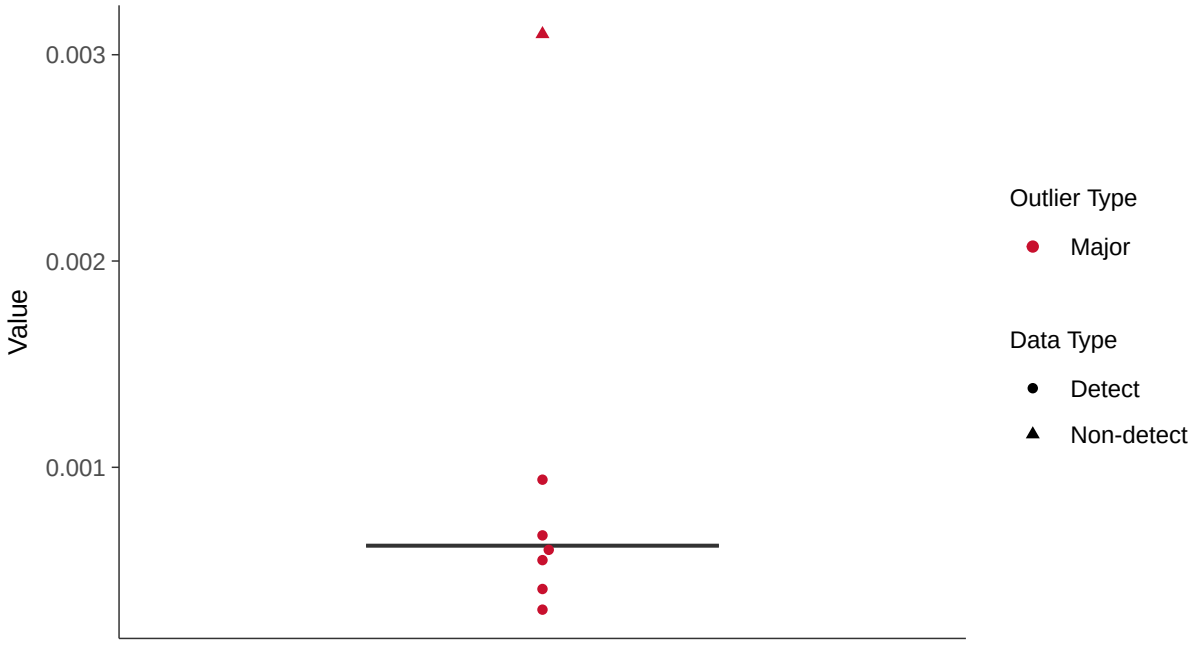
ID: 29_1_5_128





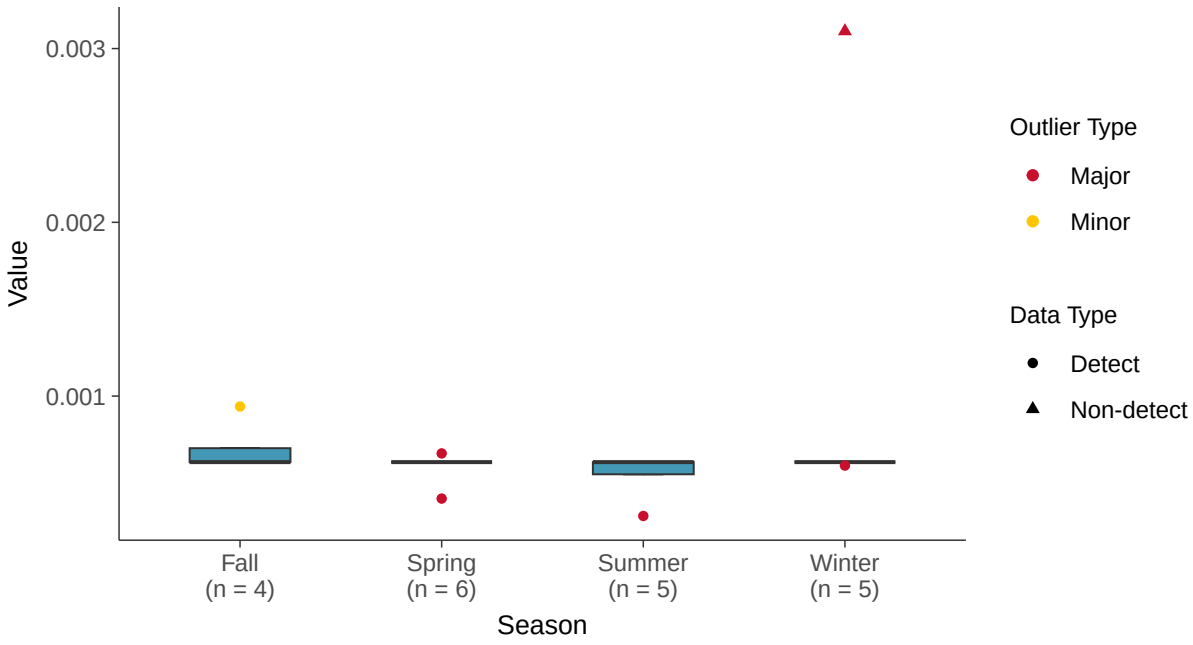
Boxplot

Vanadium, MW-19 (mg/L)



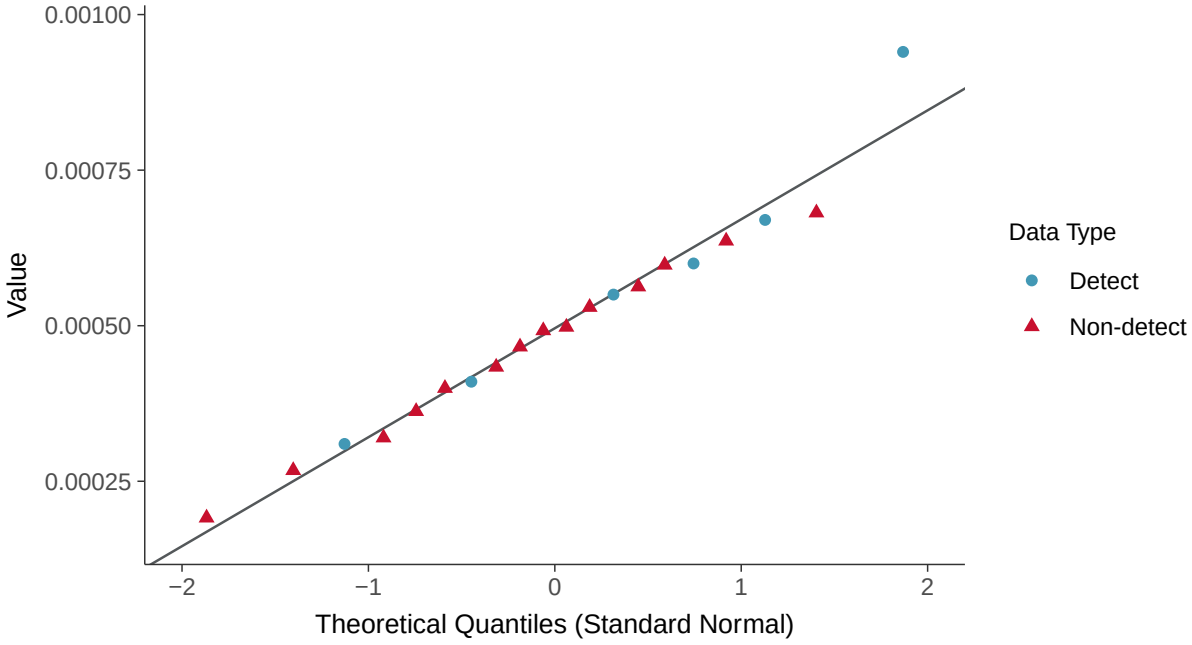
Boxplot by Season

Vanadium, MW-19 (mg/L)



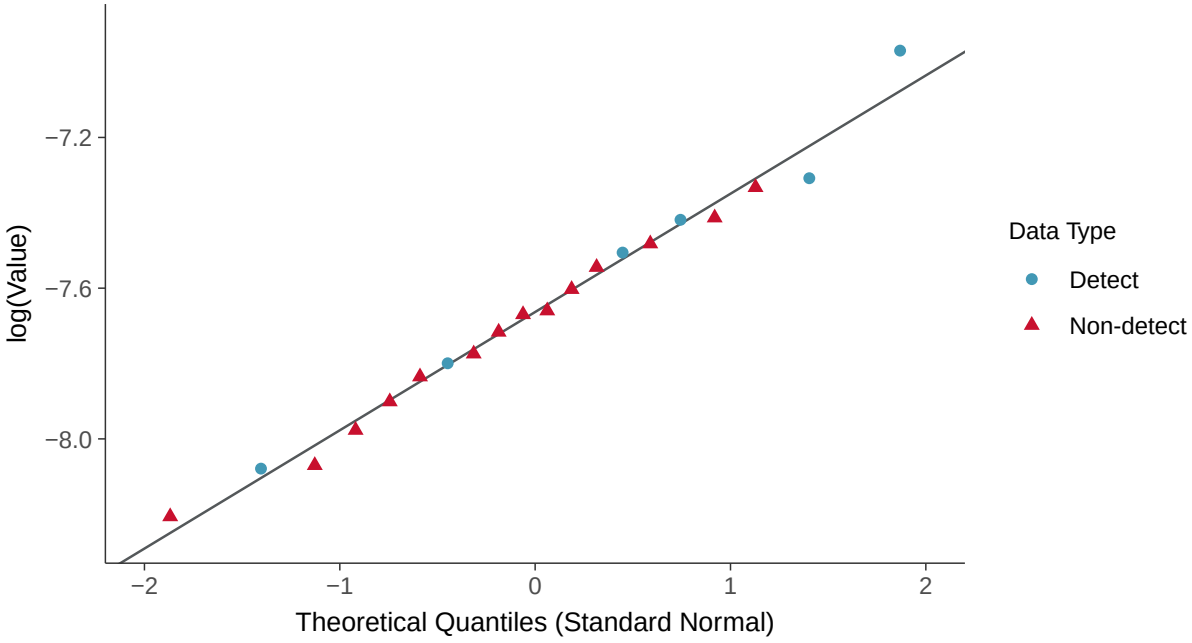
Normal Q-Q plot using ROS Imputed Estimates

Vanadium, MW-19 (mg/L)



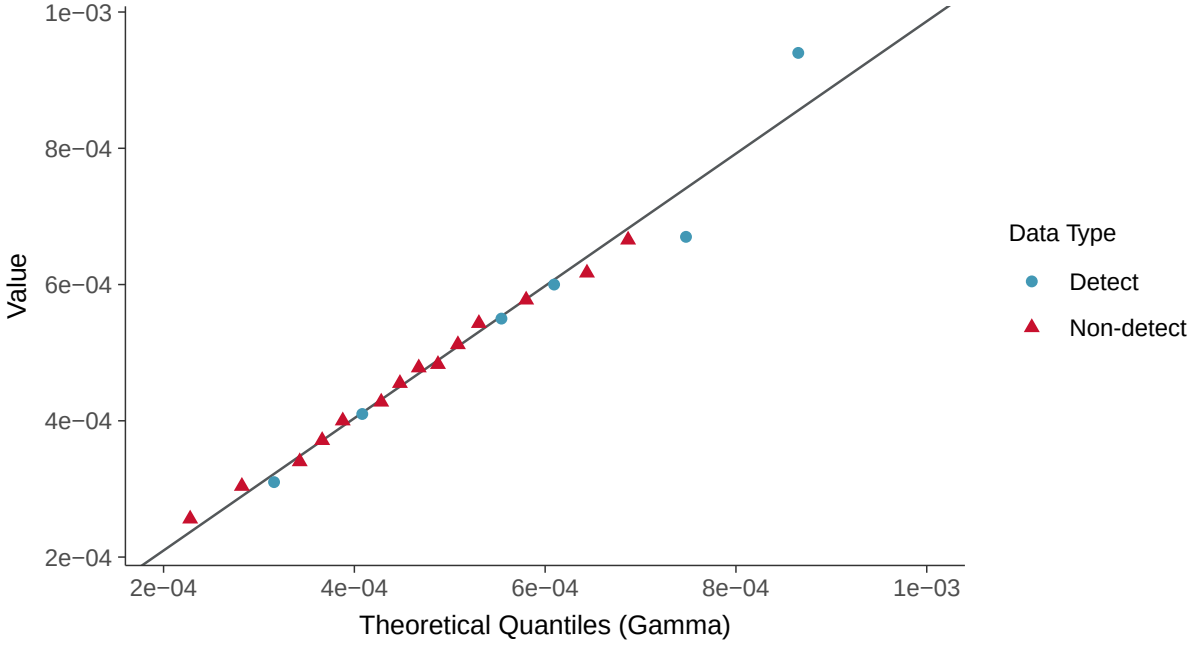
Lognormal Q-Q plot using ROS Imputed Estimates

Vanadium, MW-19 (mg/L)



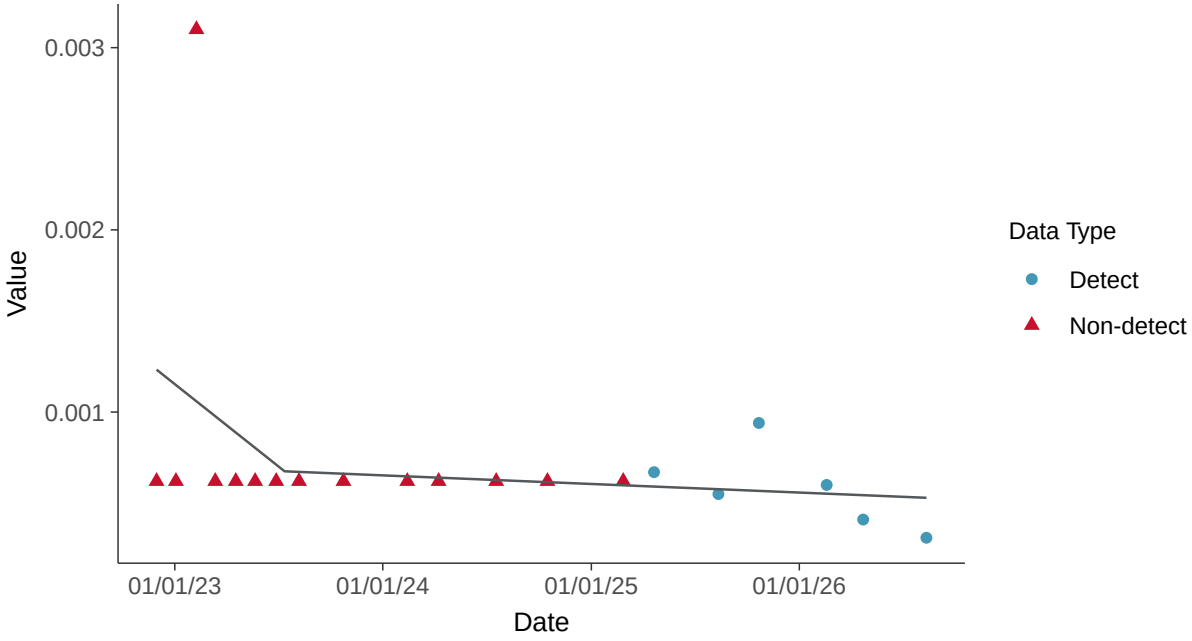
Gamma Q-Q plot using ROS Imputed Estimates

Vanadium, MW-19 (mg/L)



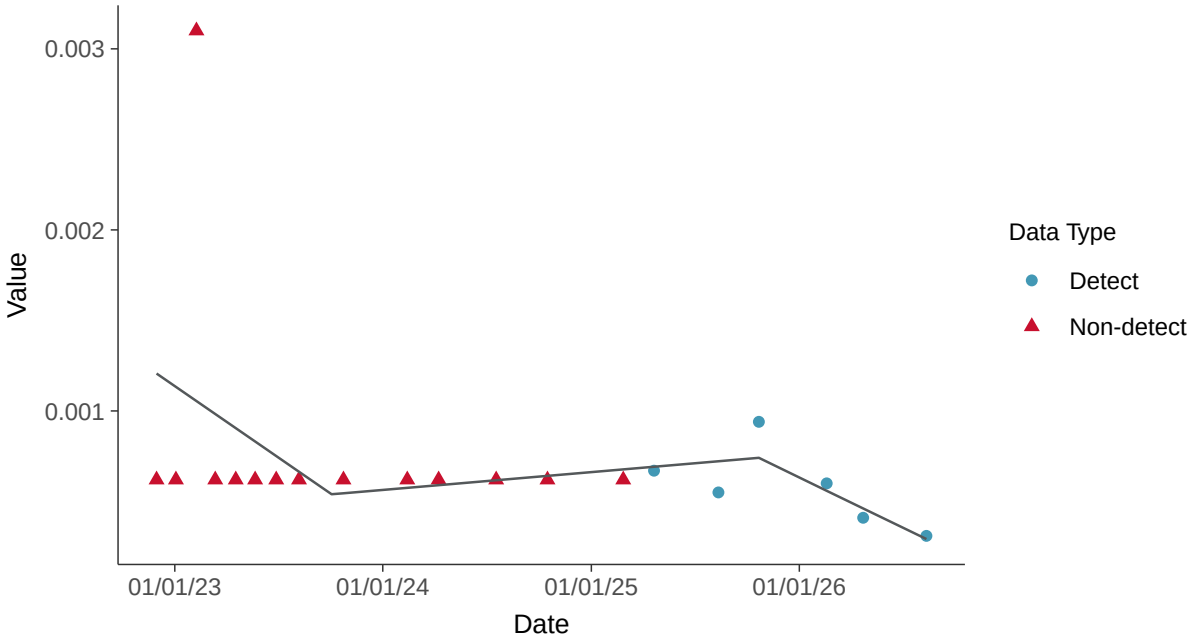
Trend Regression: Piecewise Linear-Linear

Vanadium, MW-19 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Vanadium, MW-19 (mg/L)

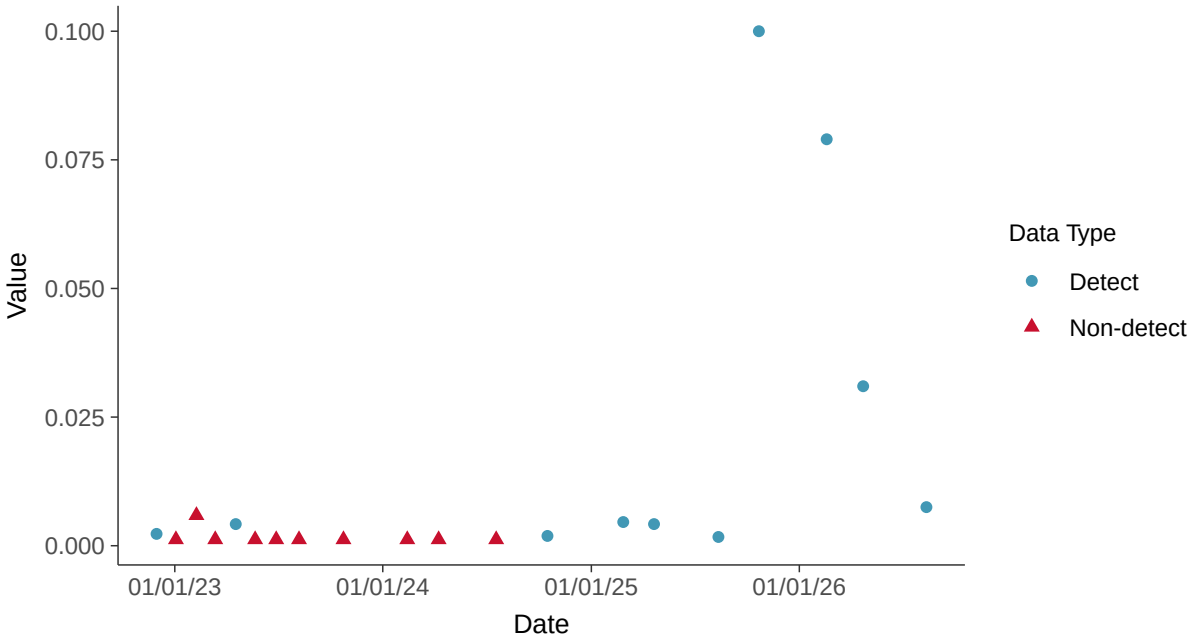


Part 115: Zinc, MW-19

ID: 29_1_5_129

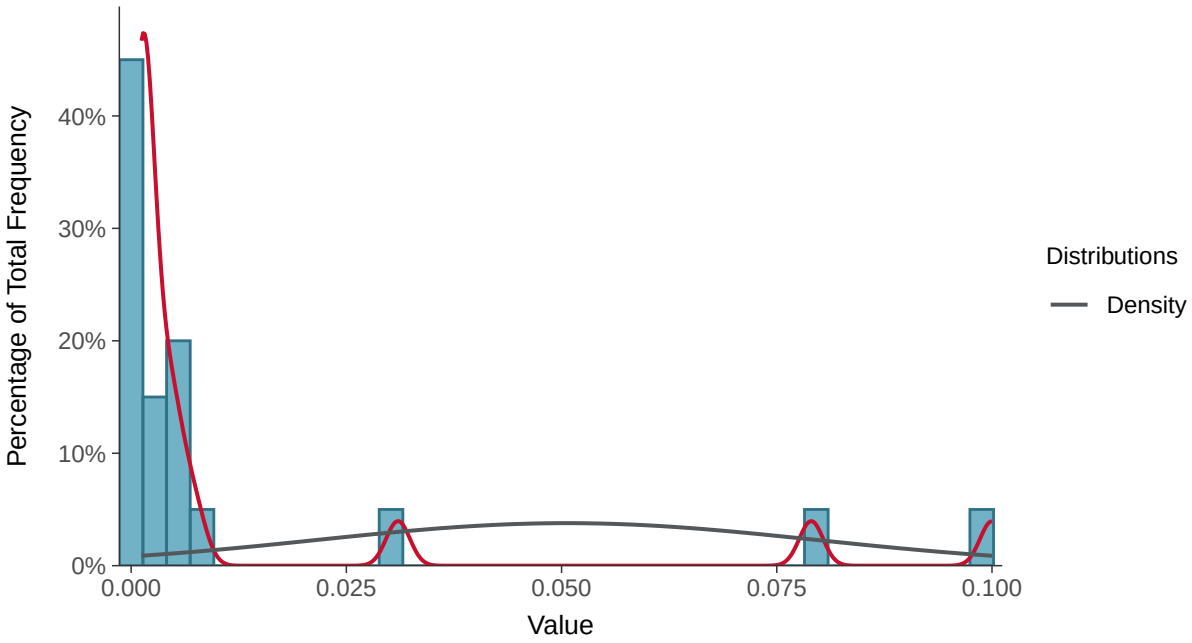
Scatter Plot

Zinc, MW-19 (mg/L)



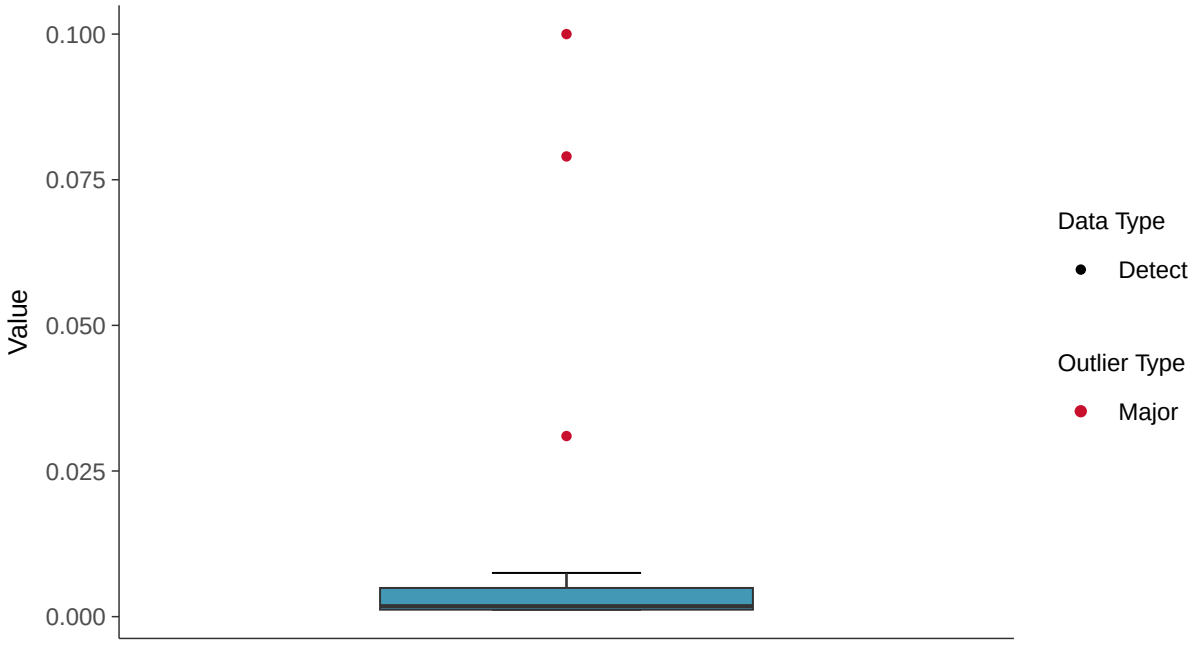
Histogram

Zinc, MW-19 (mg/L)



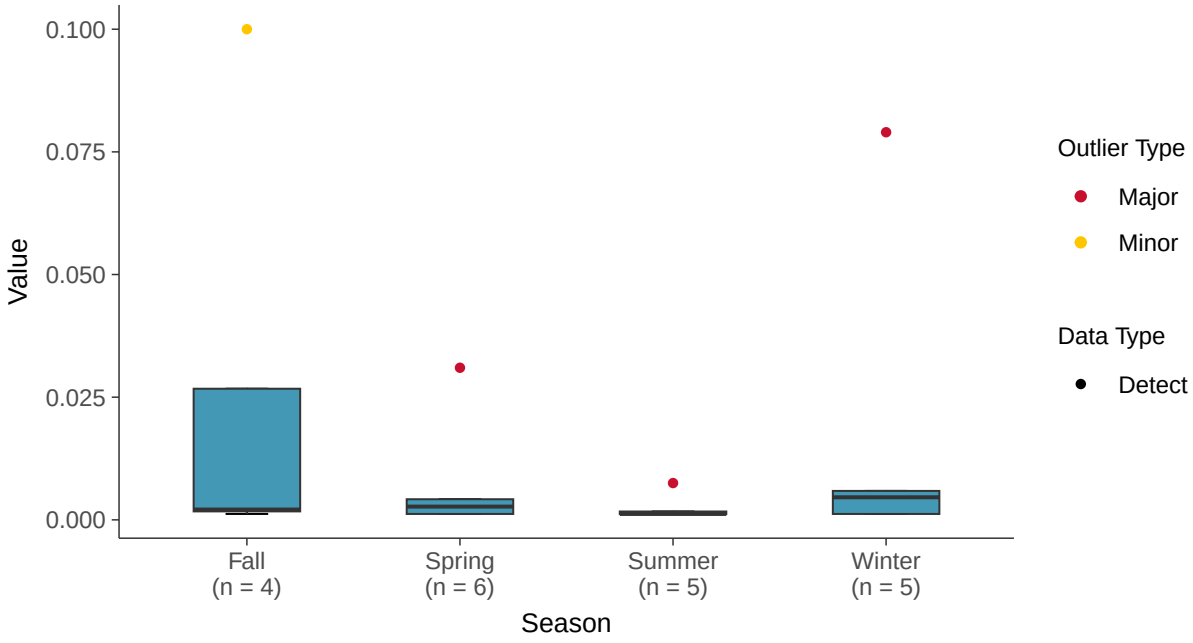
Boxplot

Zinc, MW-19 (mg/L)



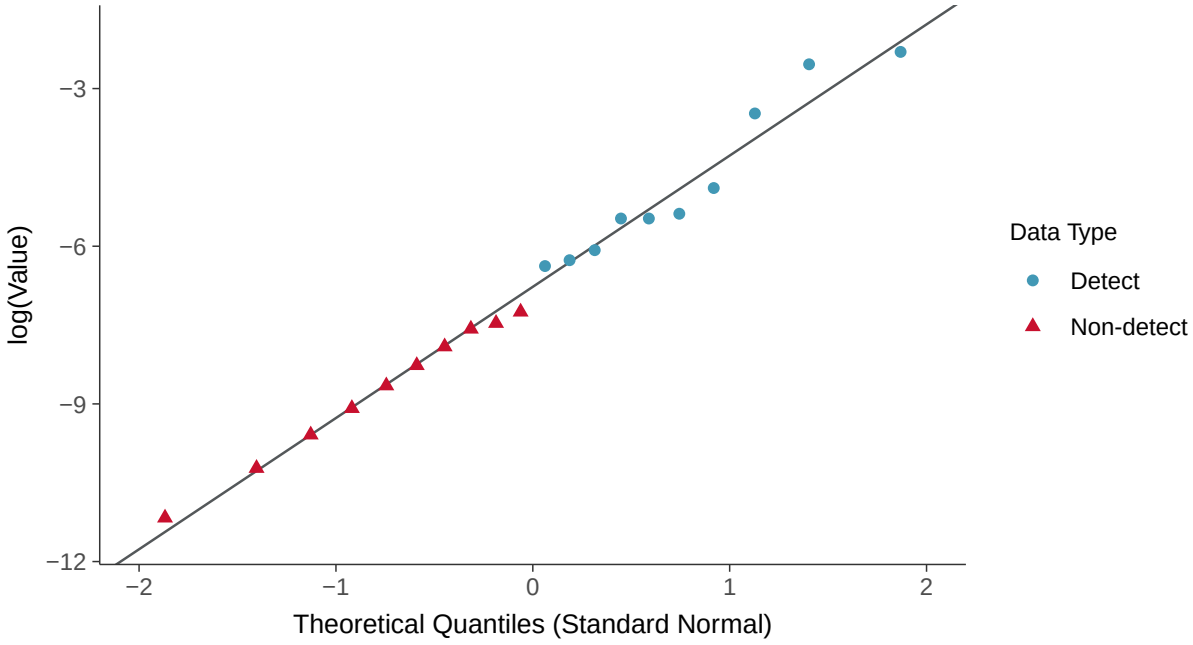
Boxplot by Season

Zinc, MW-19 (mg/L)



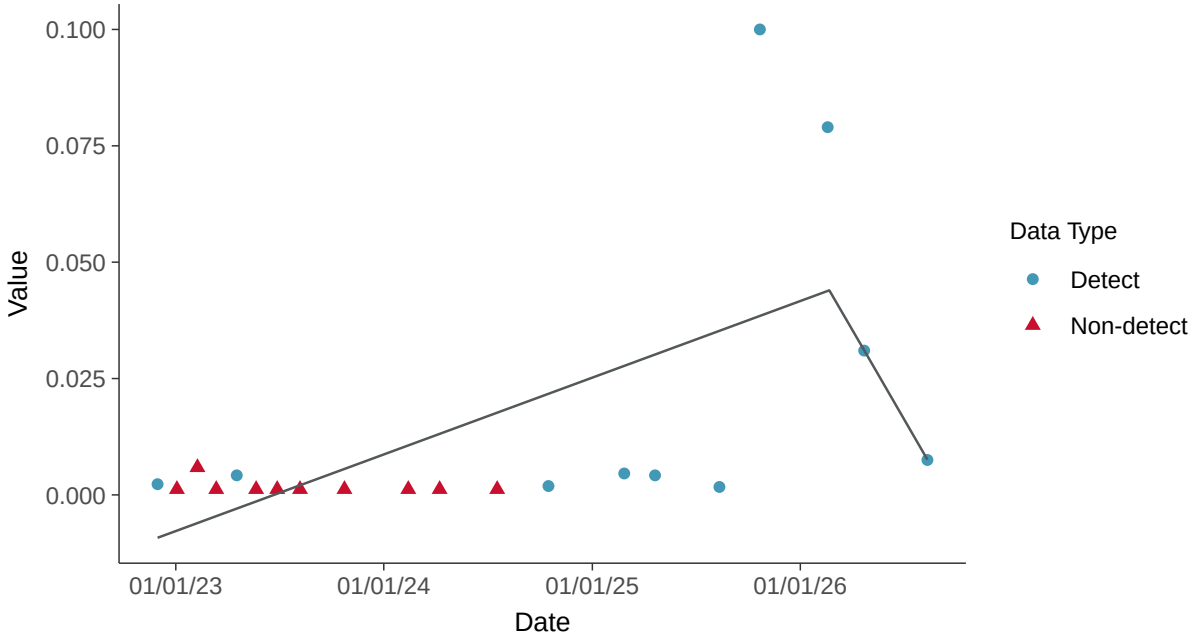
Lognormal Q-Q plot using ROS Imputed Estimates

Zinc, MW-19 (mg/L)



Trend Regression: Piecewise Linear-Linear

Zinc, MW-19 (mg/L)

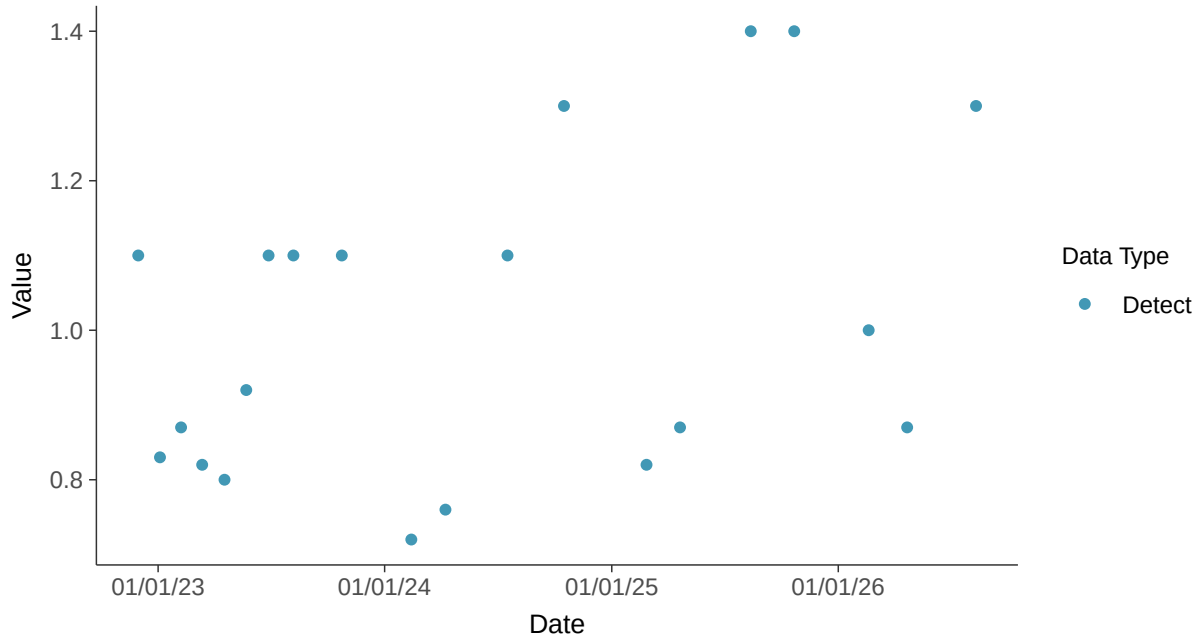


Appendix III: Boron, MW-20

ID: 30_1_3_105

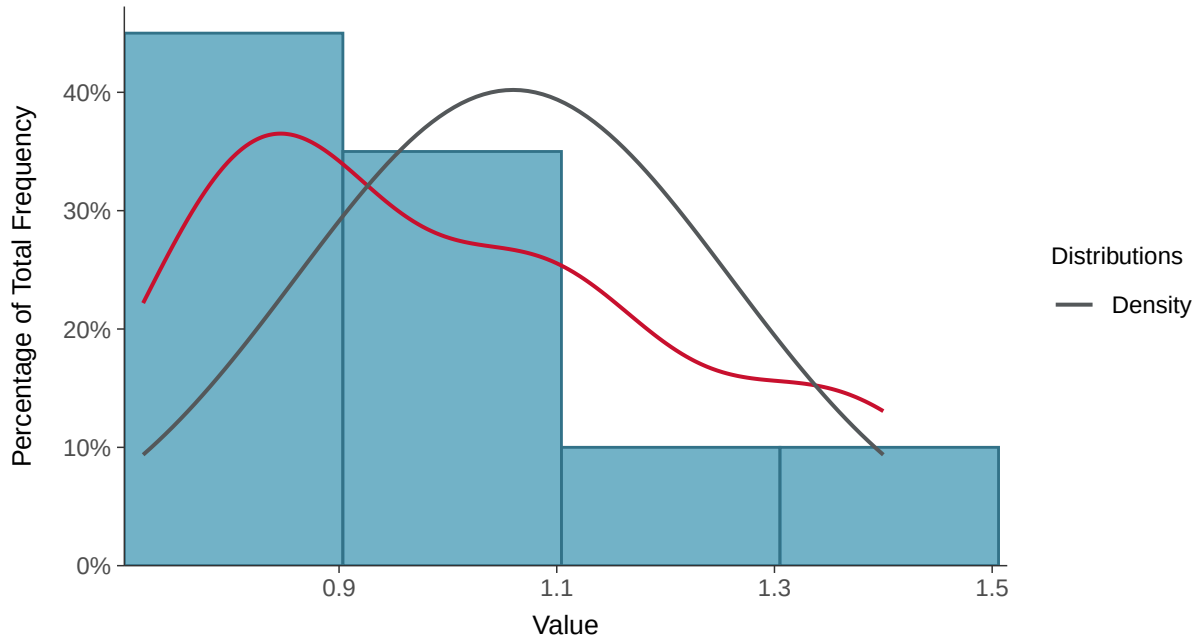
Scatter Plot

Boron, MW-20 (mg/L)



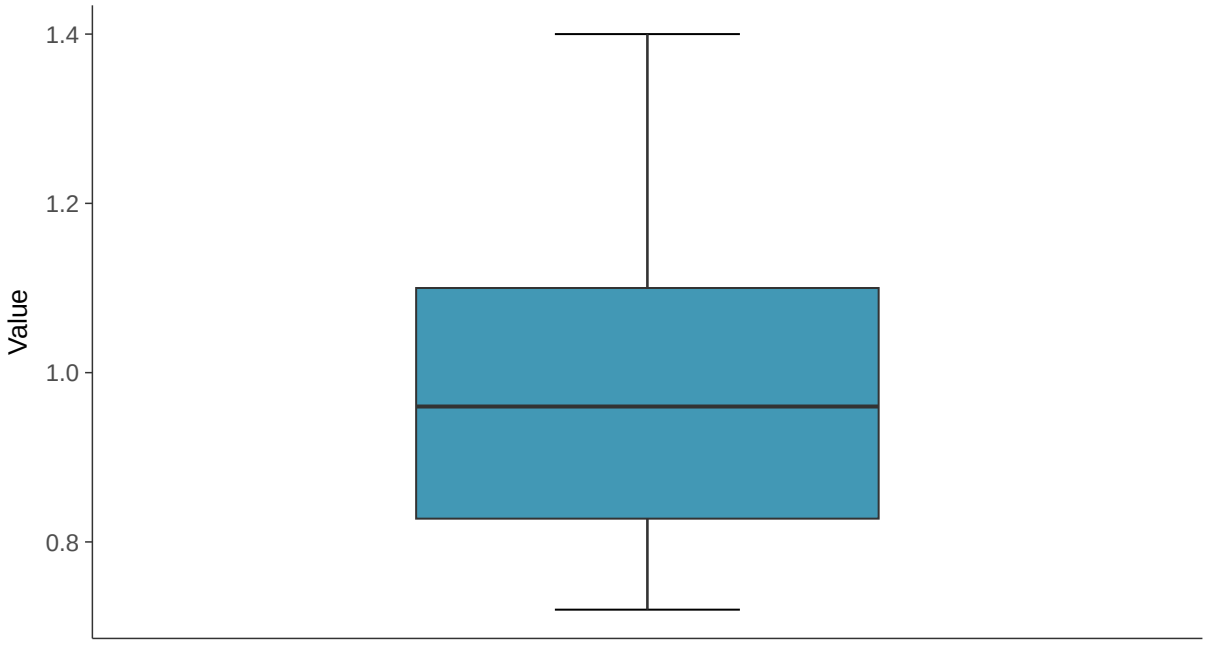
Histogram

Boron, MW-20 (mg/L)



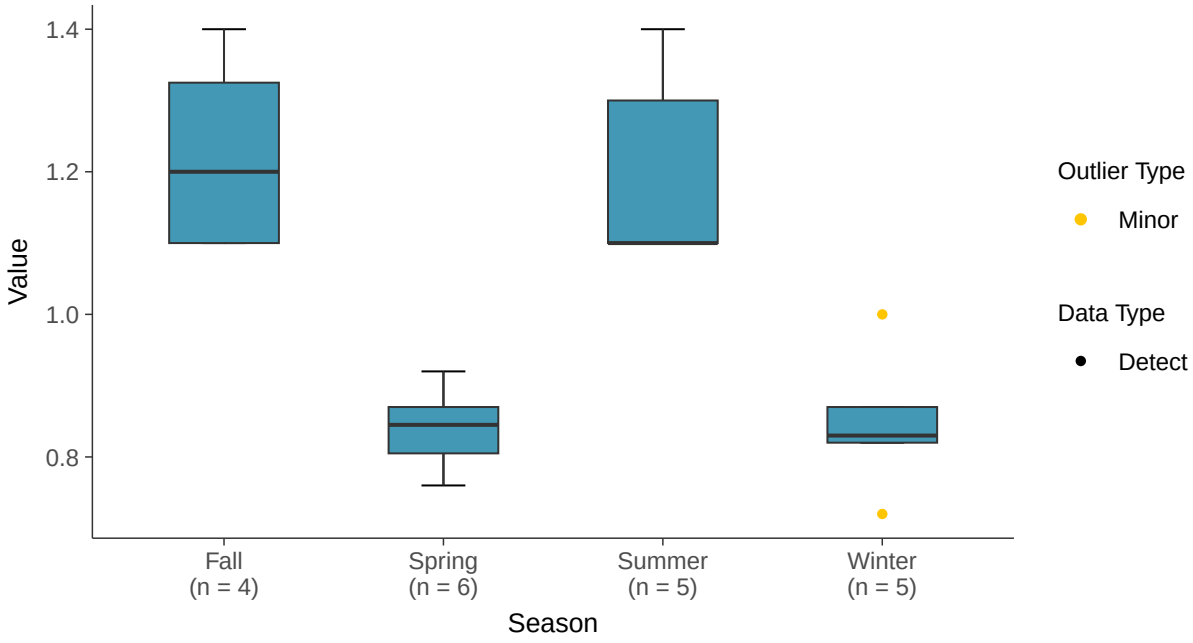
Boxplot

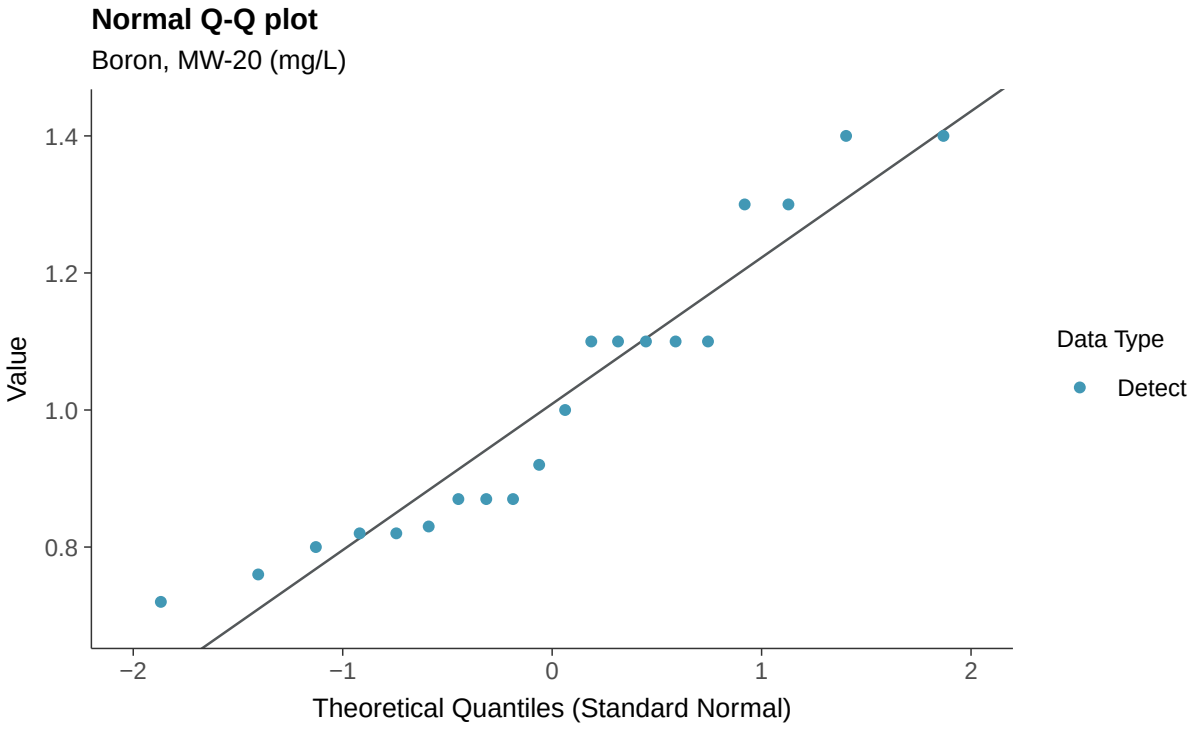
Boron, MW-20 (mg/L)

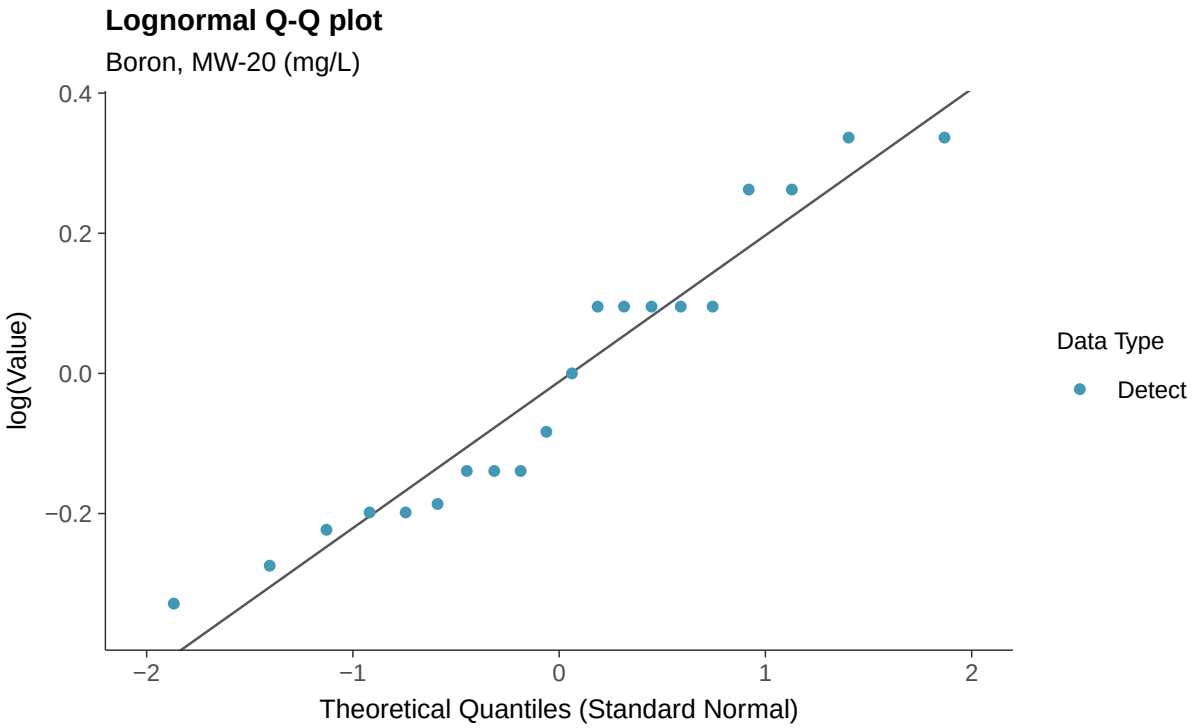


Boxplot by Season

Boron, MW-20 (mg/L)

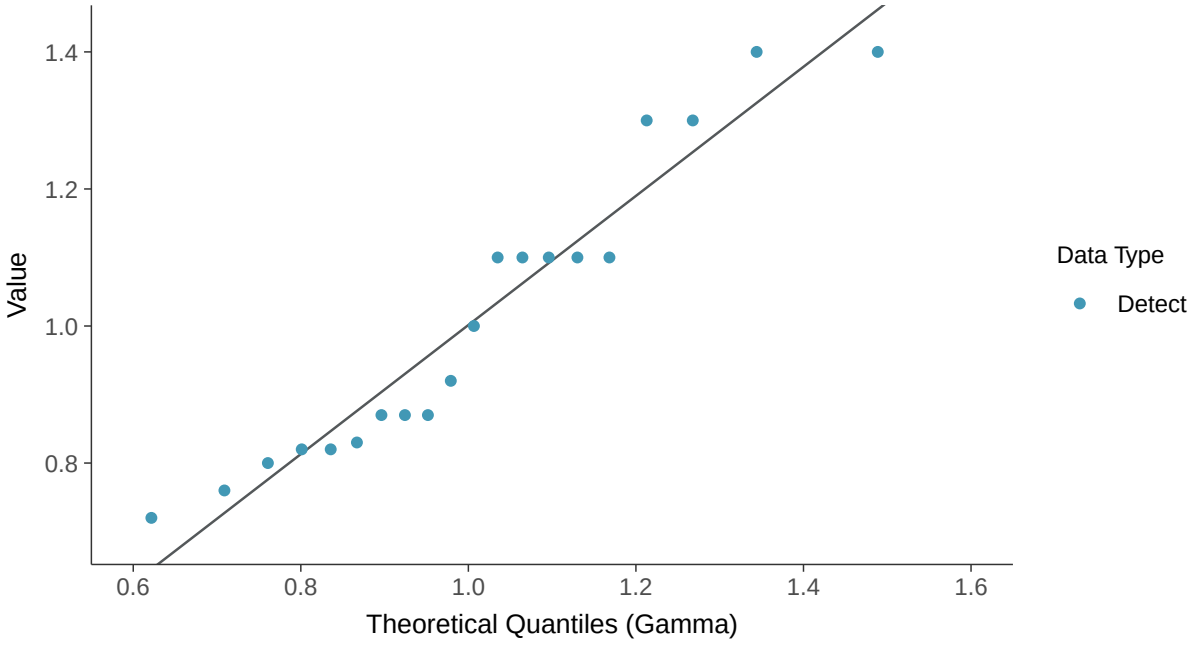



Normal Q-Q plot
Boron, MW-20 (mg/L)
Value
1.4
1.2
1.0
0.8
−2
−1
0
1
2
Theoretical Quantiles (Standard Normal)
Data Type
Detect


Lognormal Q-Q plot
Boron, MW-20 (mg/L)
log(Value)
0.4
0.2
0.0
−0.2
−2
−1
0
1
2
Theoretical Quantiles (Standard Normal)
Data Type
Detect

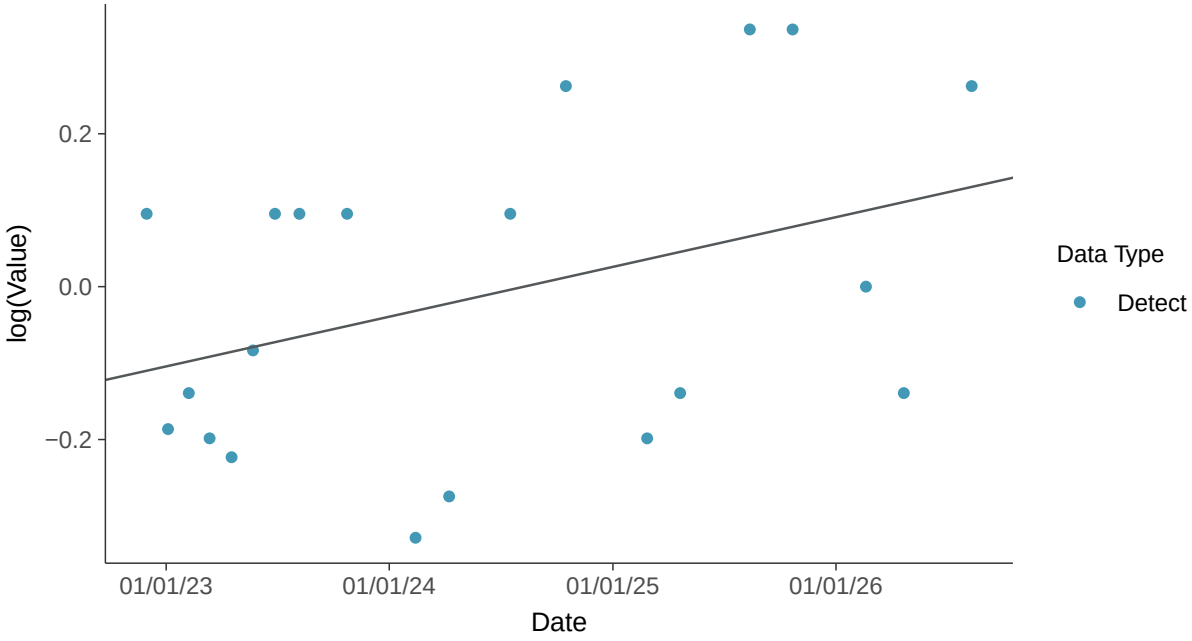
Gamma Q-Q plot

Boron, MW-20 (mg/L)



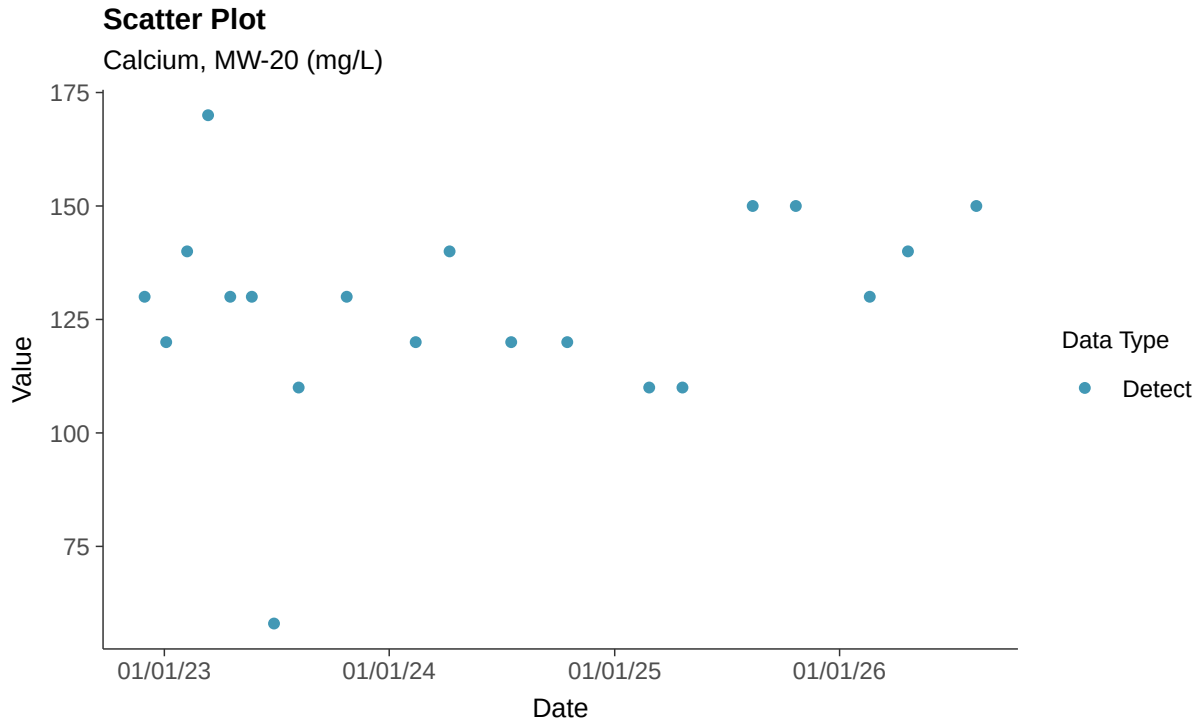
Trend Regression: Lognormal MLE

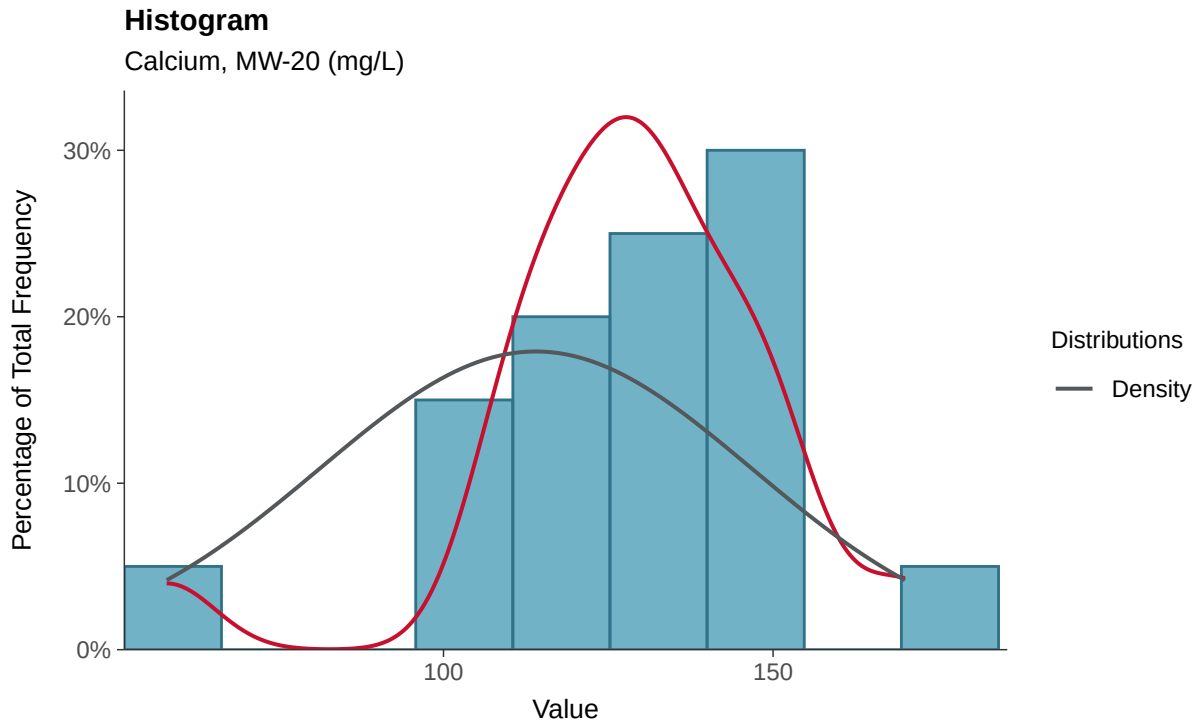
Boron, MW-20 (mg/L)



Appendix III: Calcium, MW-20

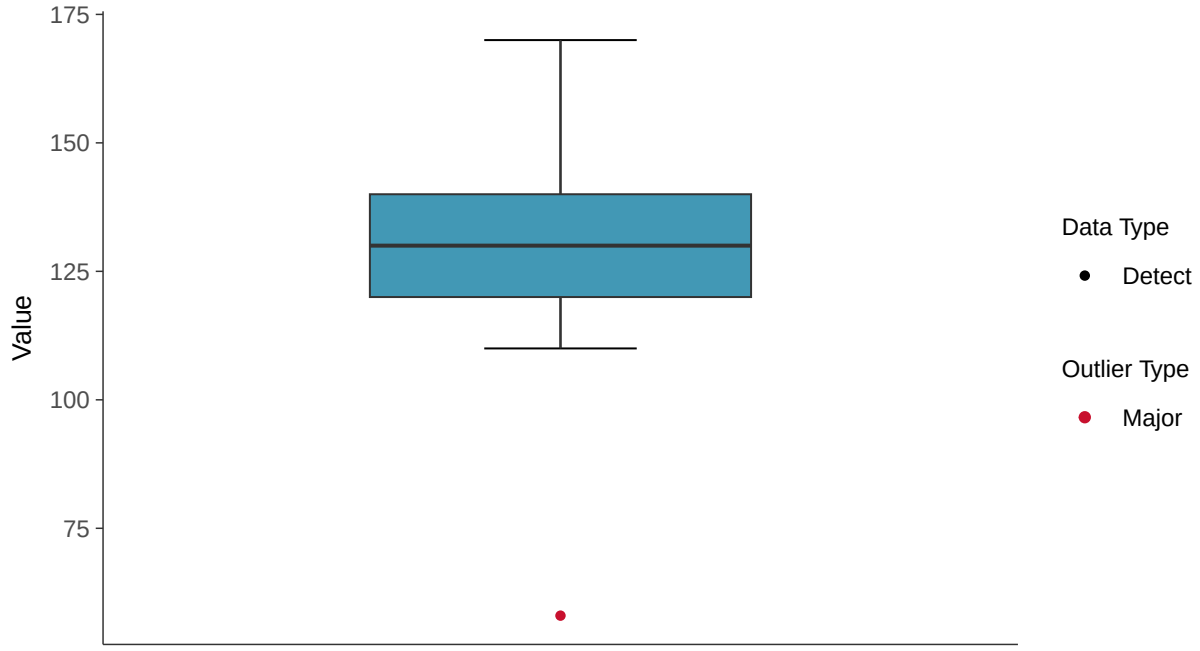
ID: 30_1_3_107





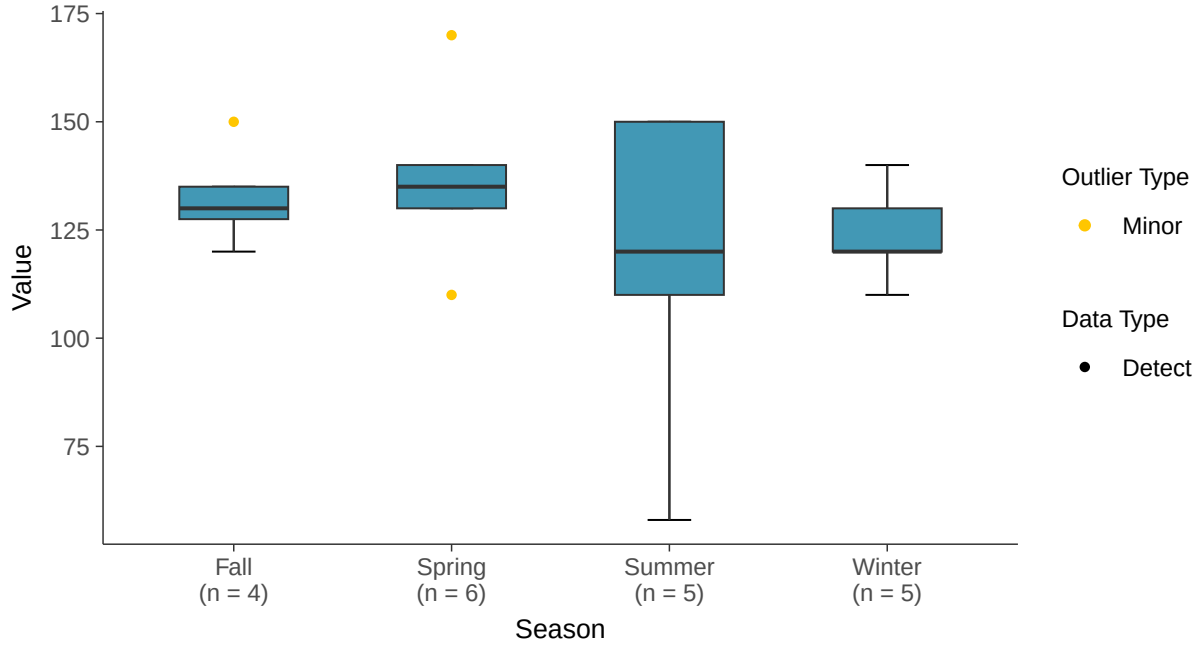
Boxplot

Calcium, MW-20 (mg/L)



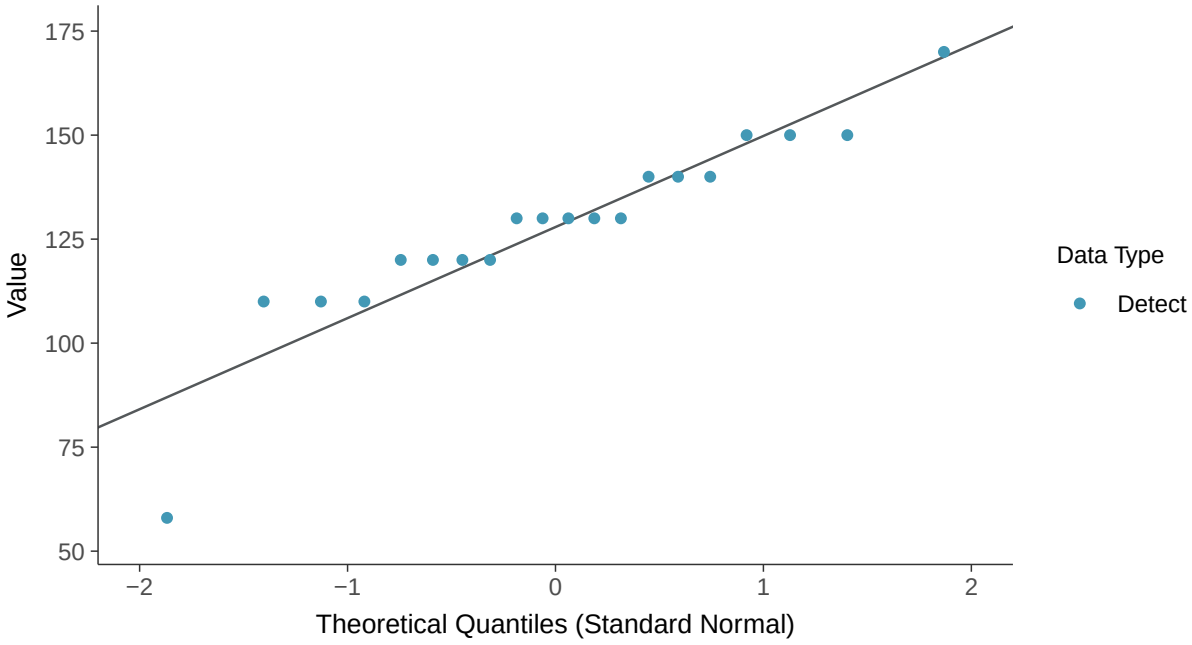
Boxplot by Season

Calcium, MW-20 (mg/L)



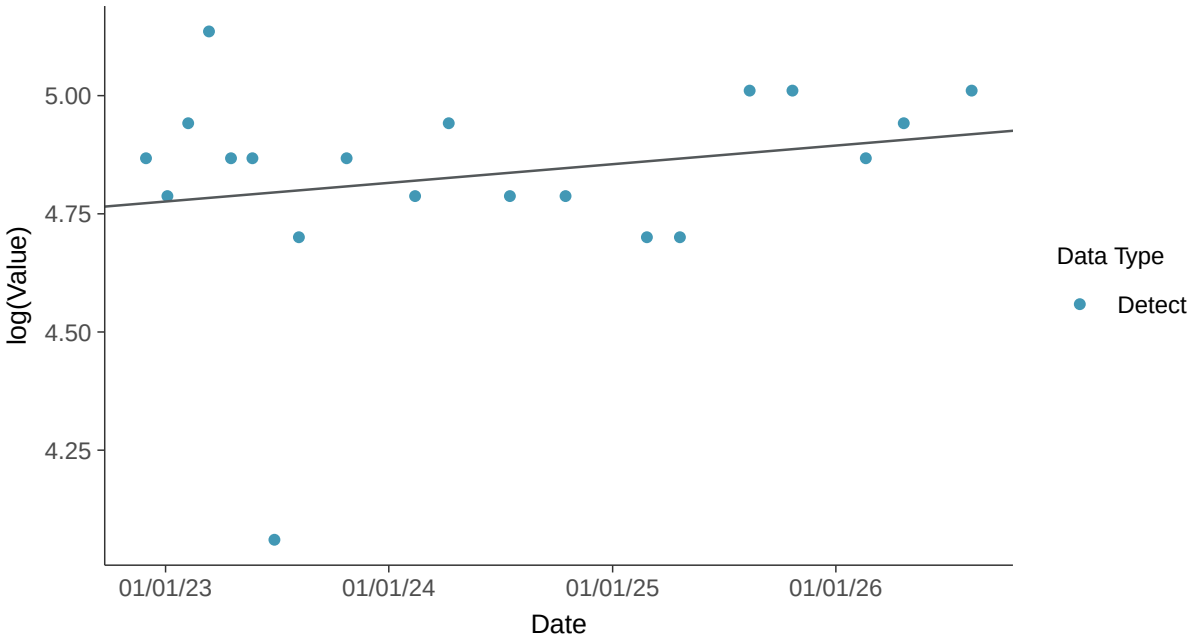
Normal Q-Q plot

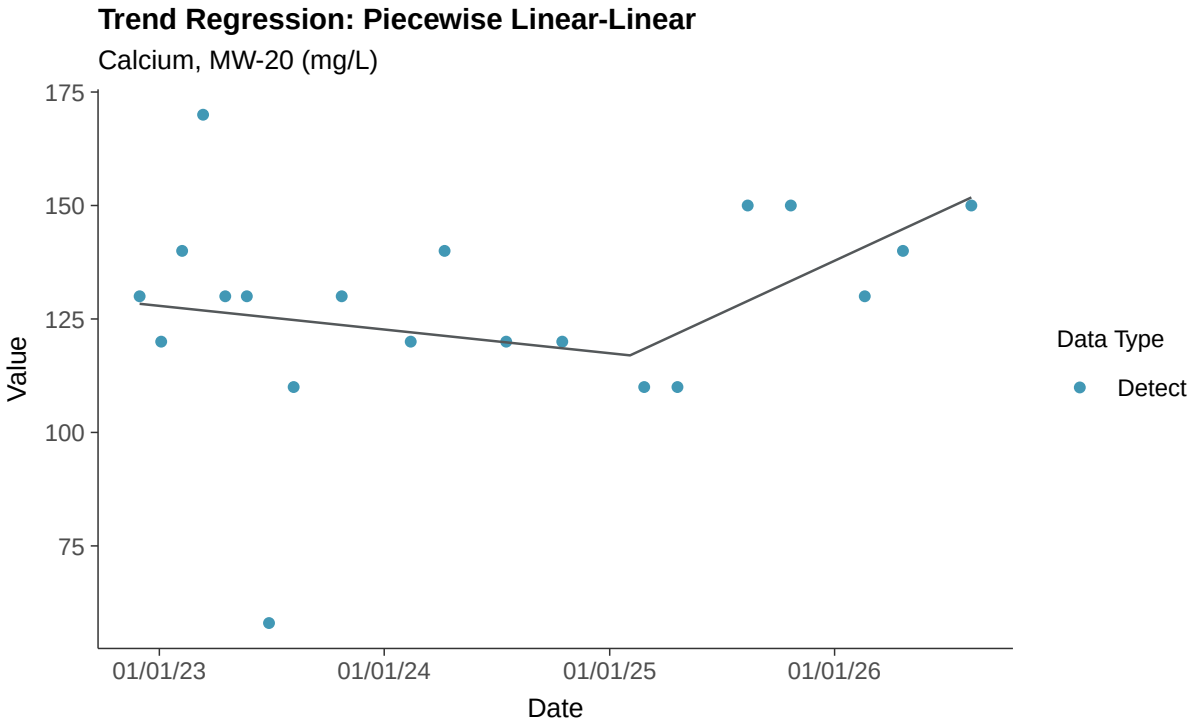
Calcium, MW-20 (mg/L)



Trend Regression: Lognormal MLE

Calcium, MW-20 (mg/L)



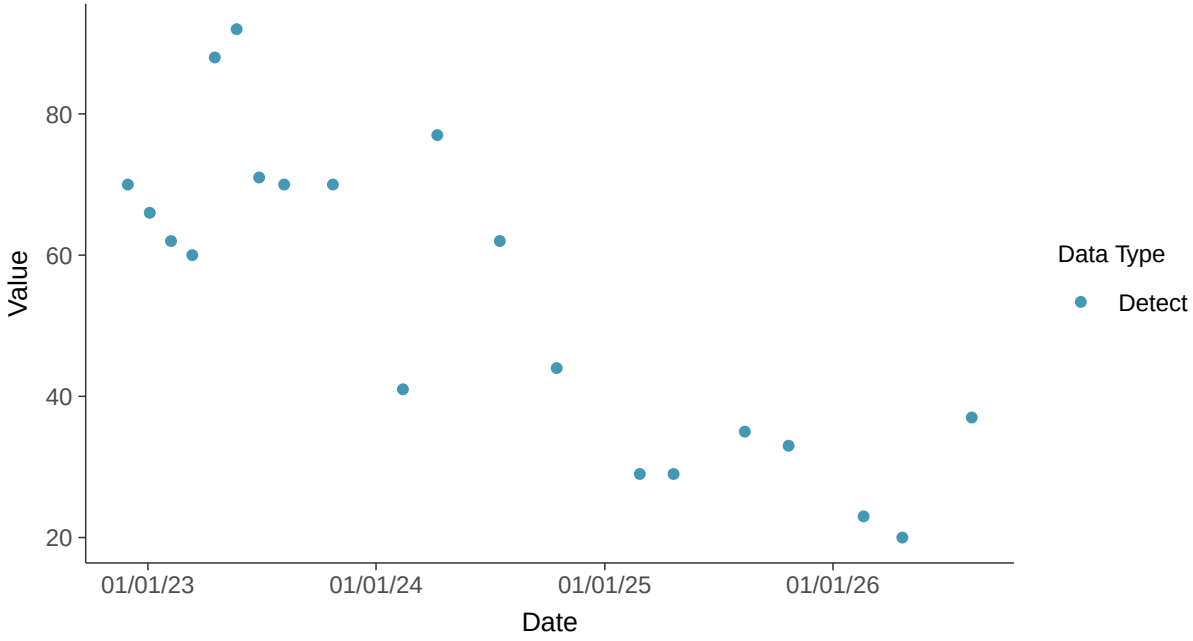

Trend Regression: Piecewise Linear-Linear
Calcium, MW-20 (mg/L)
175
150
125
100
75
Value
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect

Appendix III: Chloride (as Cl), MW-20

ID: 30_1_3_108

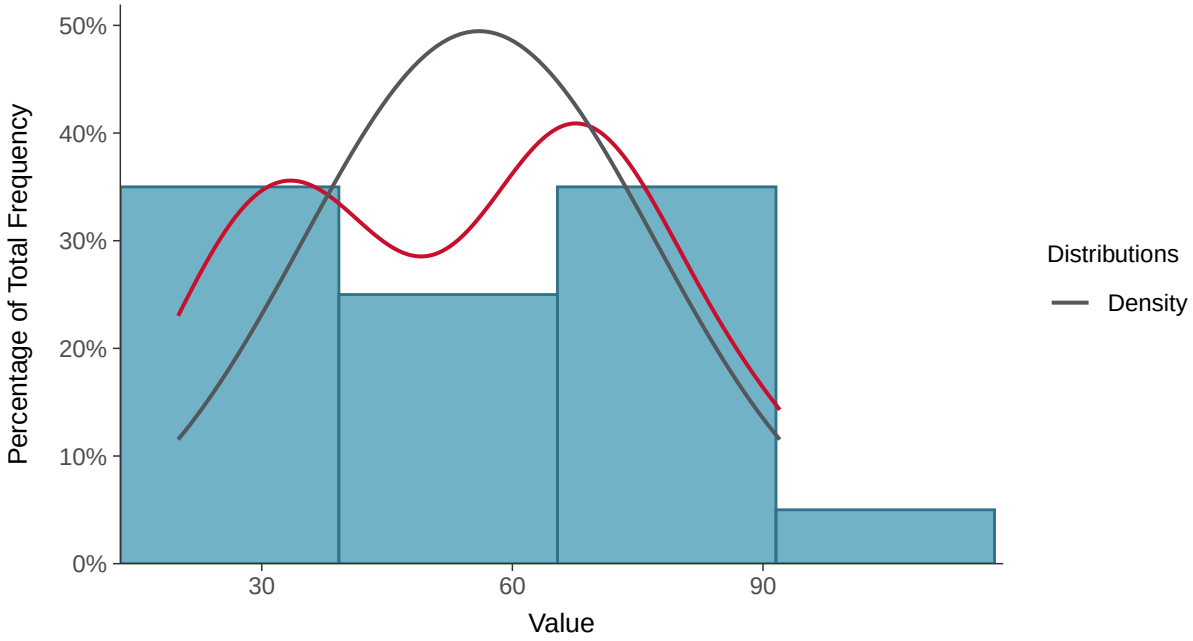
Scatter Plot

Chloride (as Cl), MW-20 (mg/L)



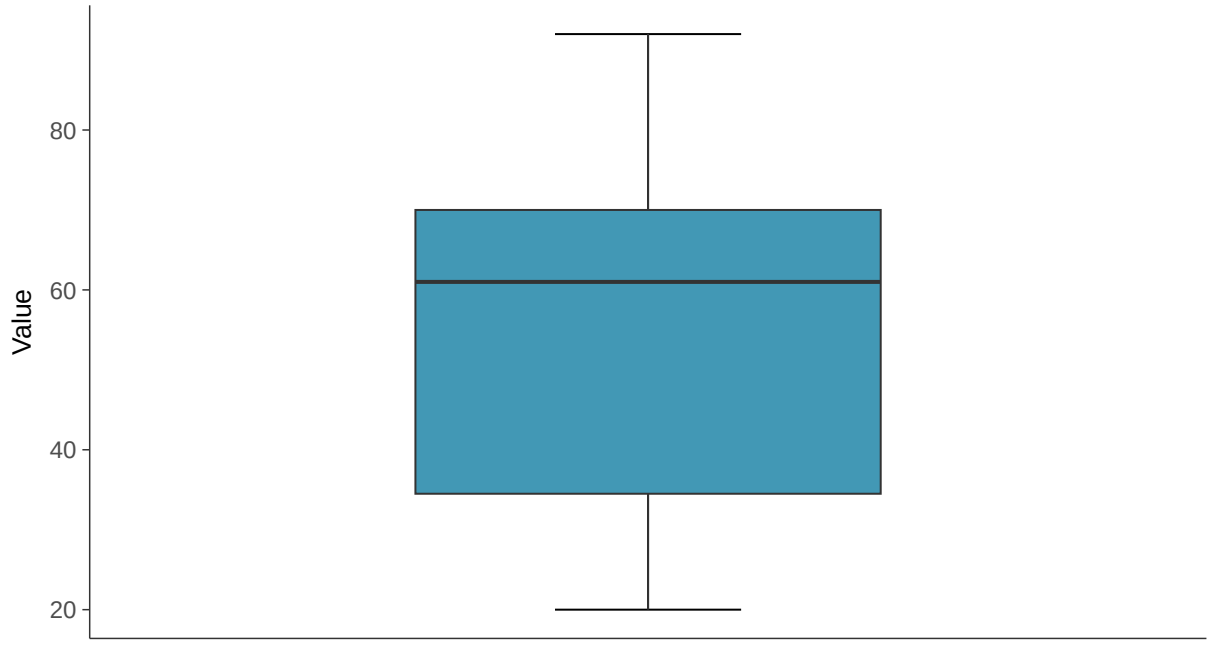
Histogram

Chloride (as Cl), MW-20 (mg/L)



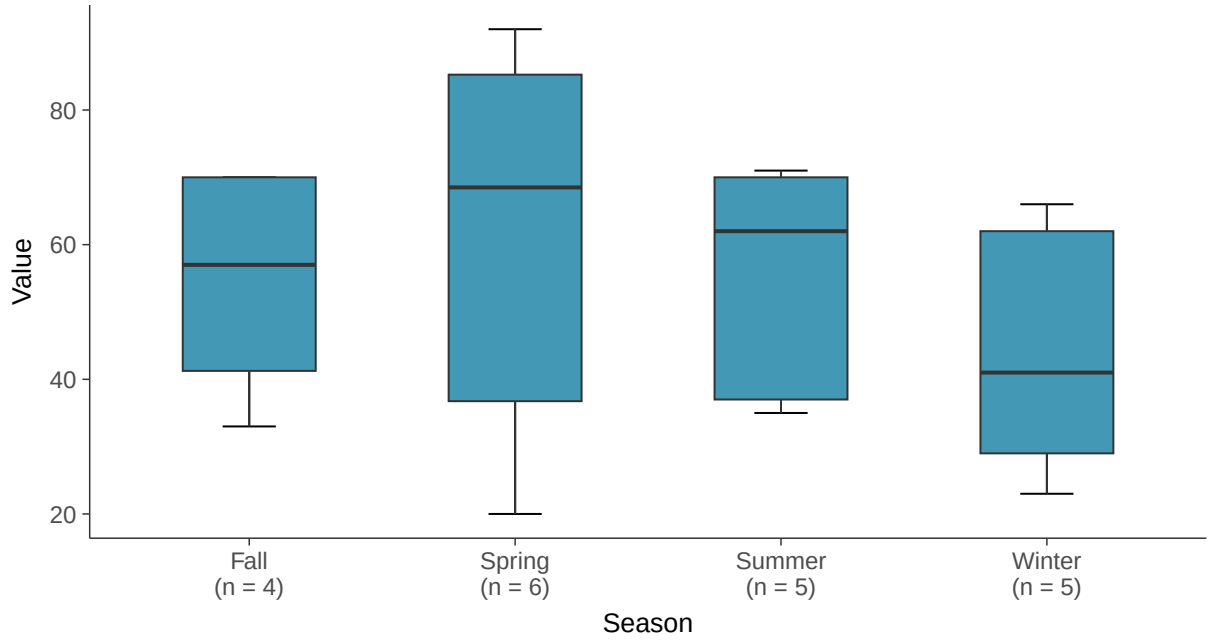
Boxplot

Chloride (as Cl), MW-20 (mg/L)



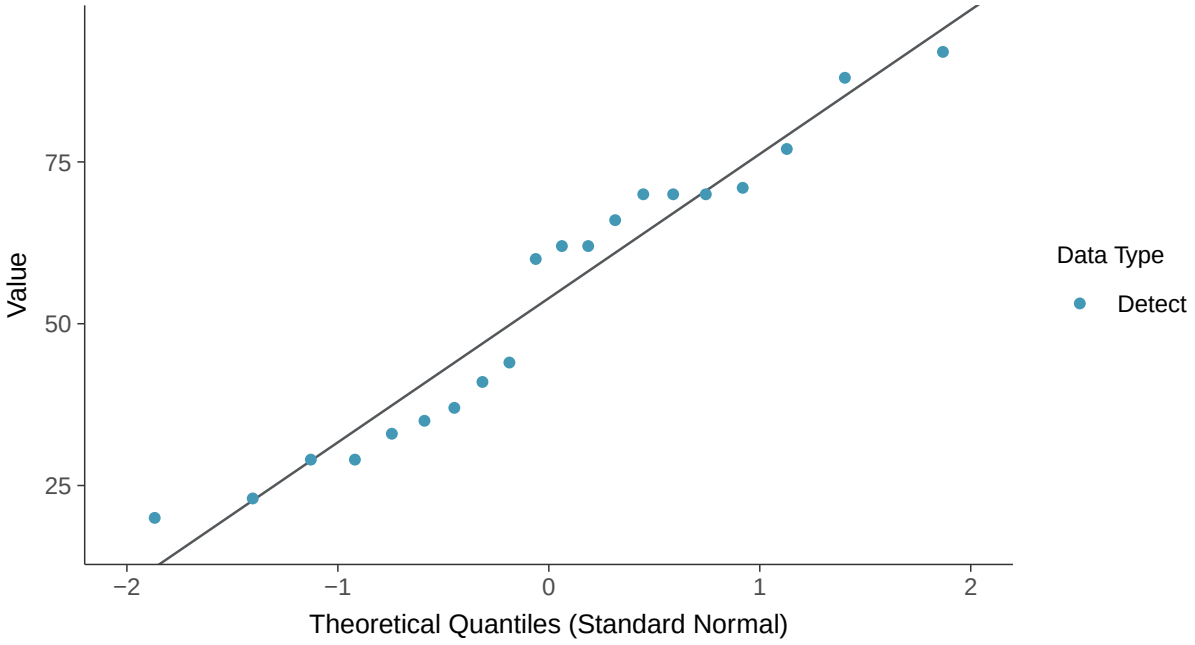
Boxplot by Season

Chloride (as Cl), MW-20 (mg/L)



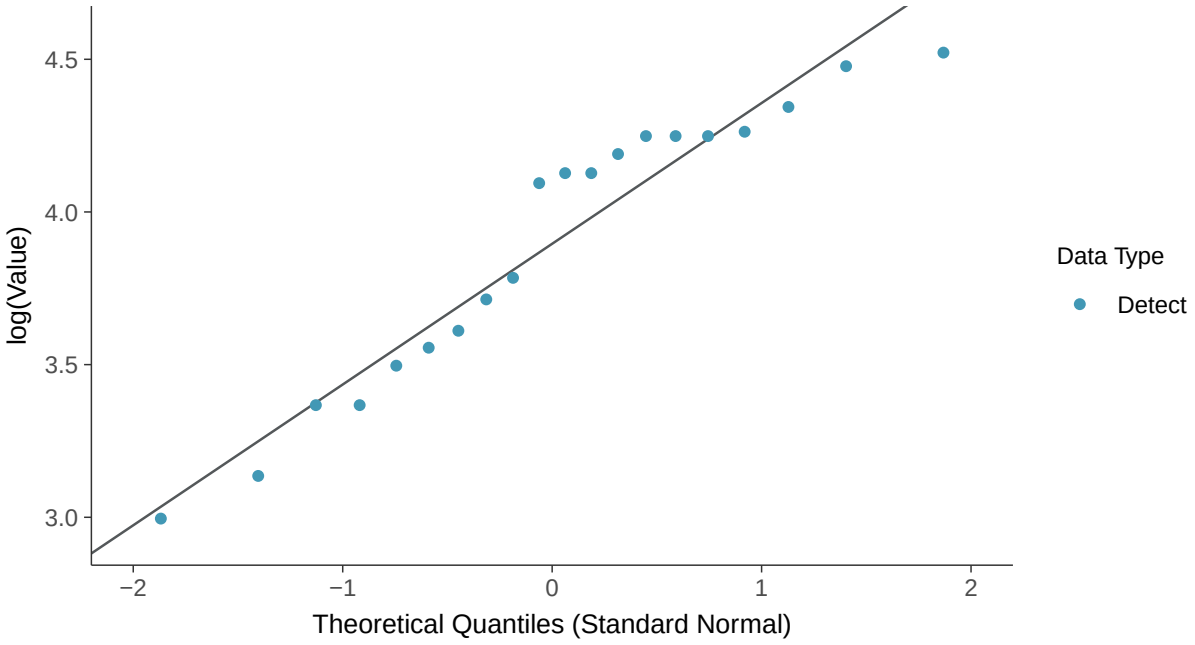
Normal Q-Q plot

Chloride (as Cl), MW-20 (mg/L)



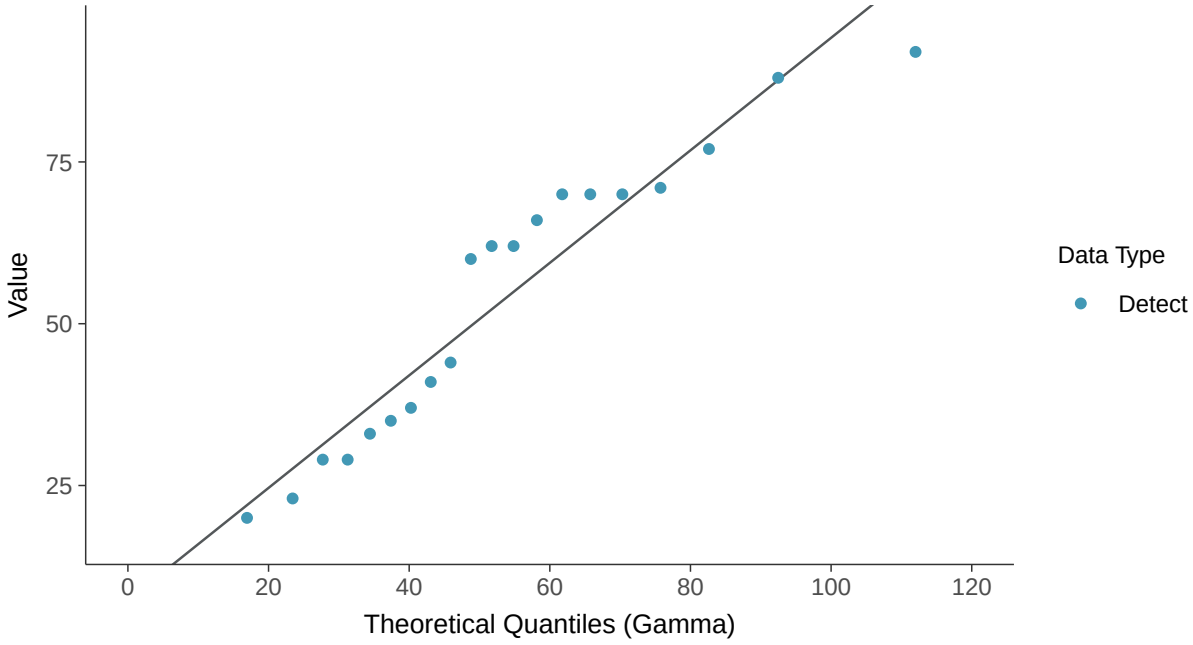
Lognormal Q-Q plot

Chloride (as Cl), MW-20 (mg/L)



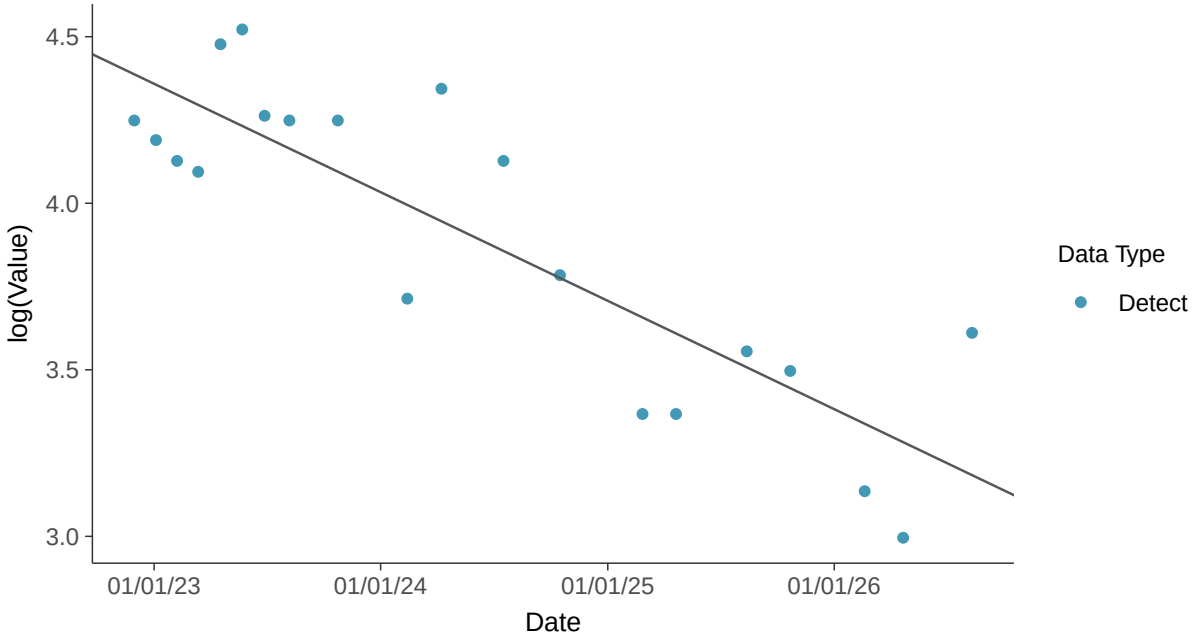
Gamma Q-Q plot

Chloride (as Cl), MW-20 (mg/L)



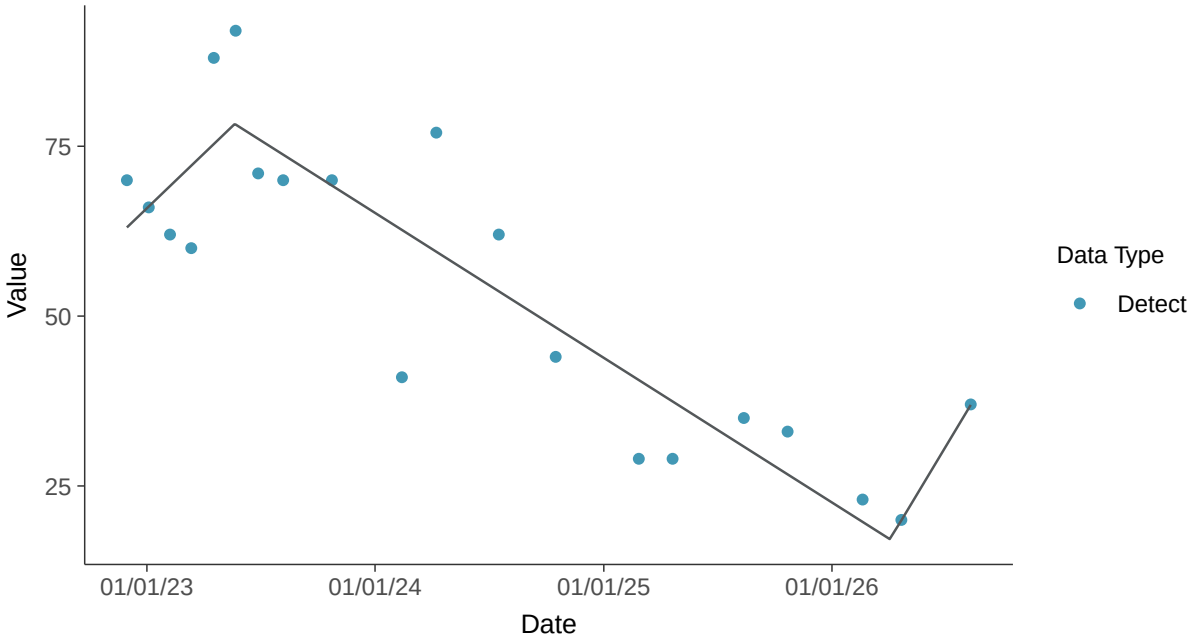
Trend Regression: Lognormal MLE

Chloride (as Cl), MW-20 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Chloride (as Cl), MW-20 (mg/L)

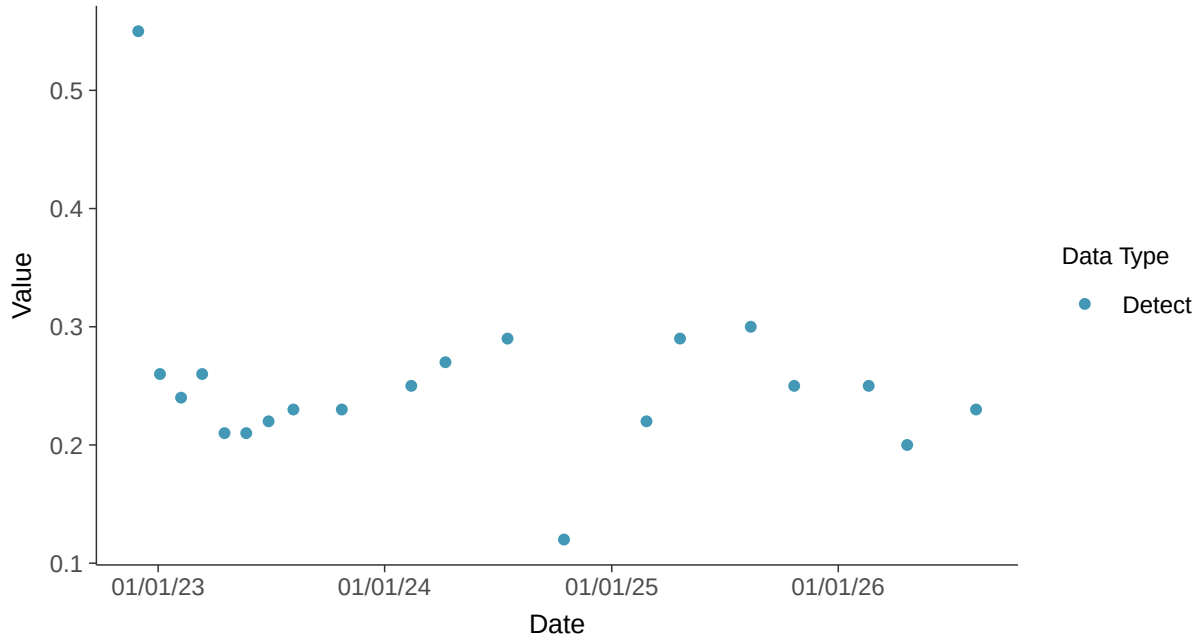


Appendix III: Fluoride, MW-20

ID: 30_1_3_112

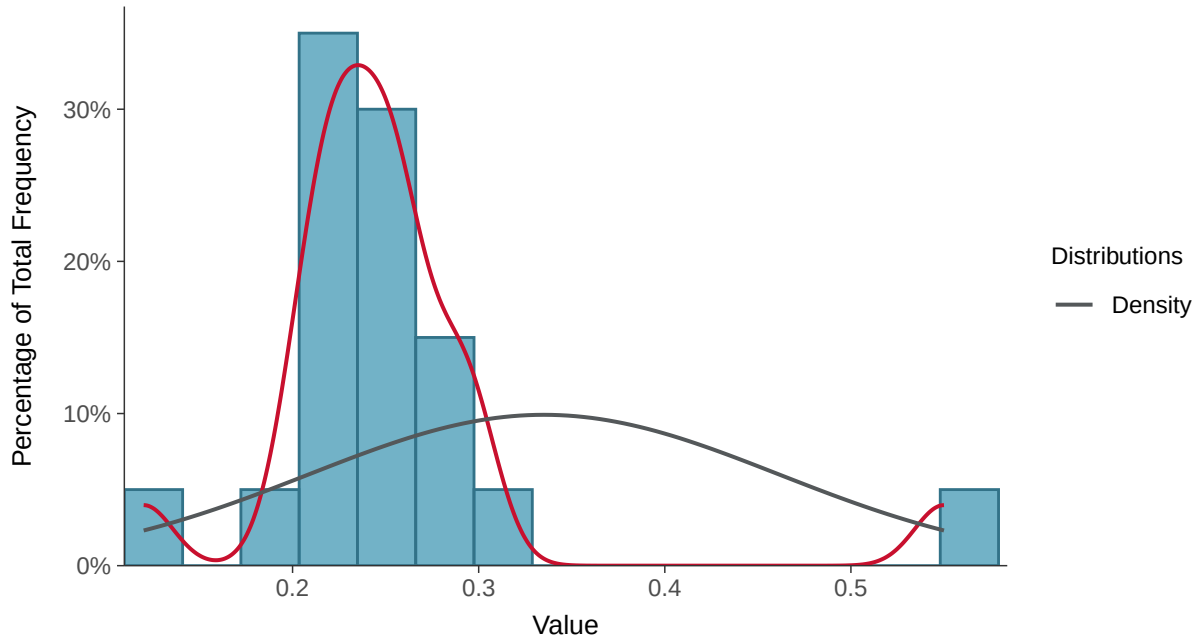
Scatter Plot

Fluoride, MW-20 (mg/L)



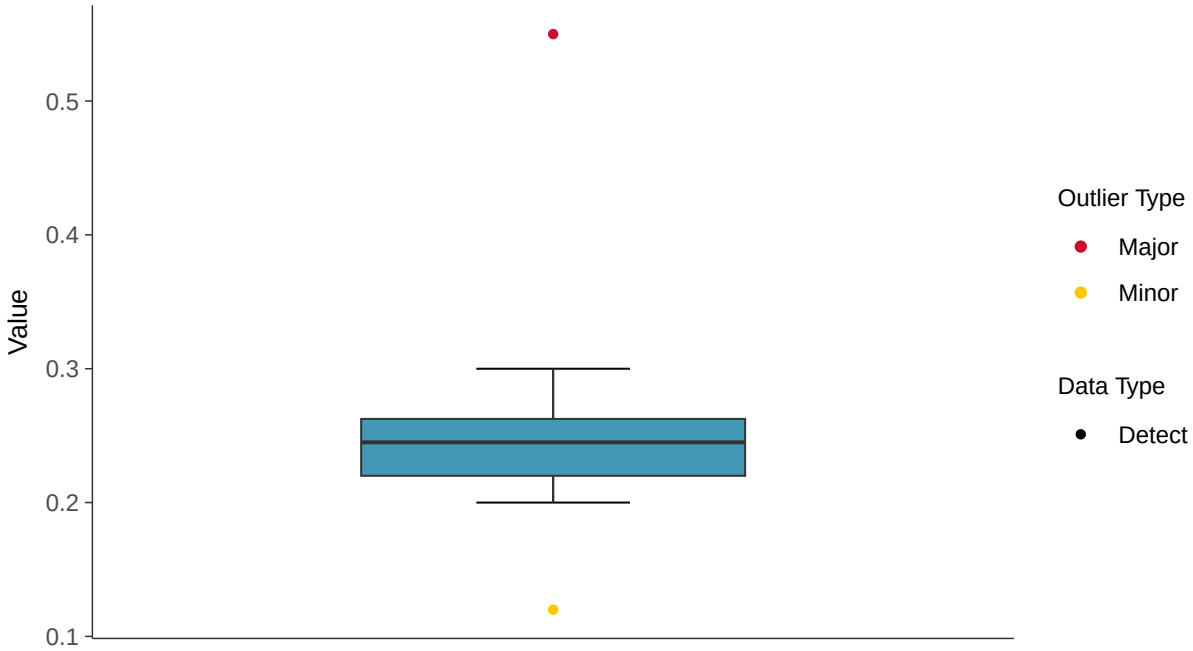
Histogram

Fluoride, MW-20 (mg/L)



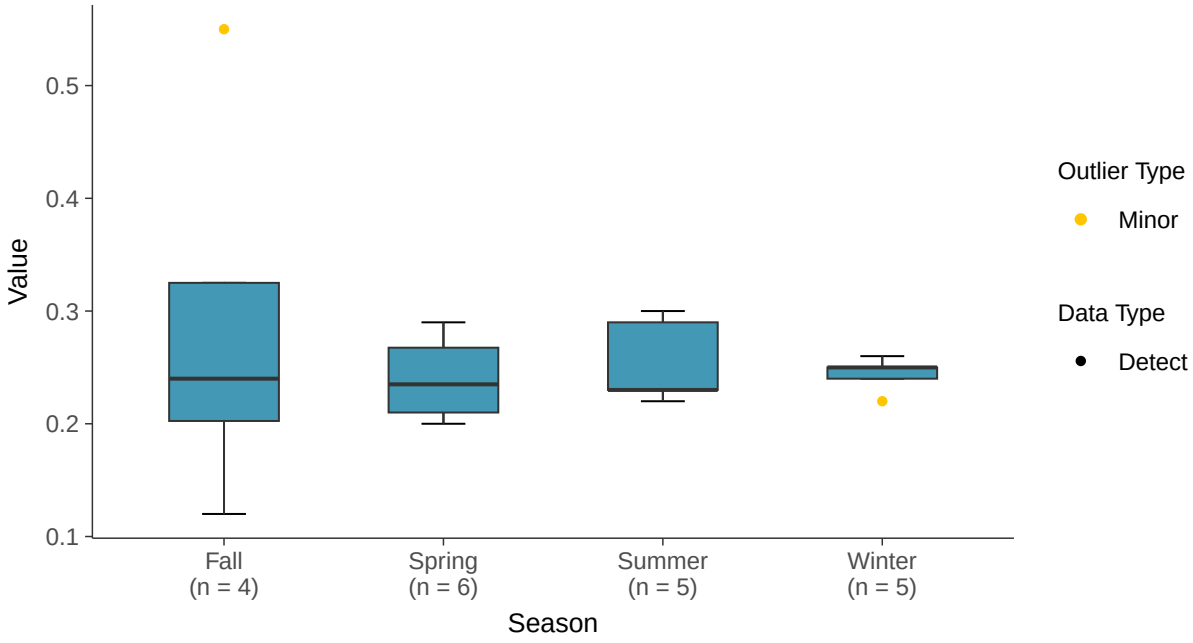
Boxplot

Fluoride, MW-20 (mg/L)



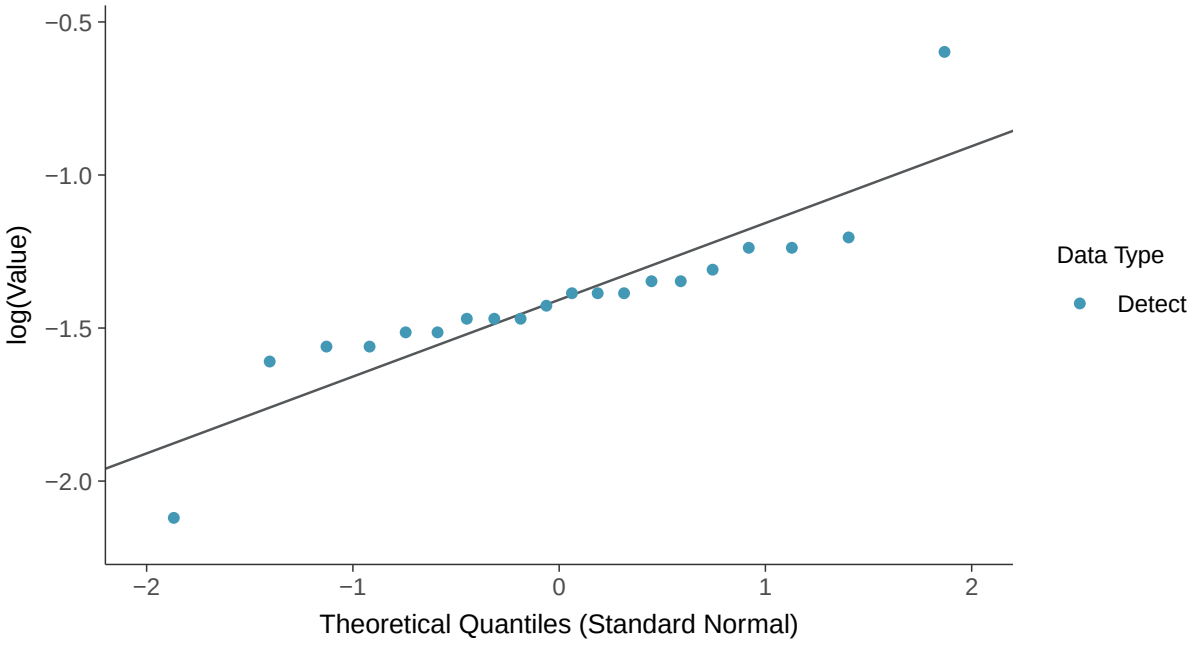
Boxplot by Season

Fluoride, MW-20 (mg/L)



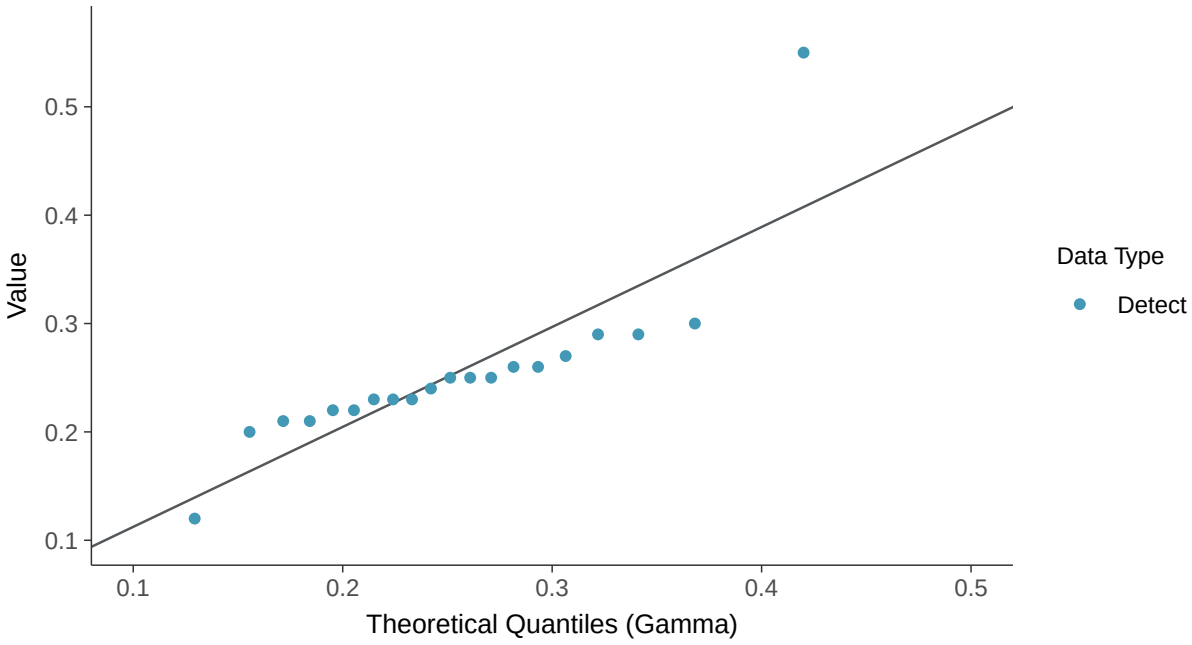
Lognormal Q-Q plot

Fluoride, MW-20 (mg/L)



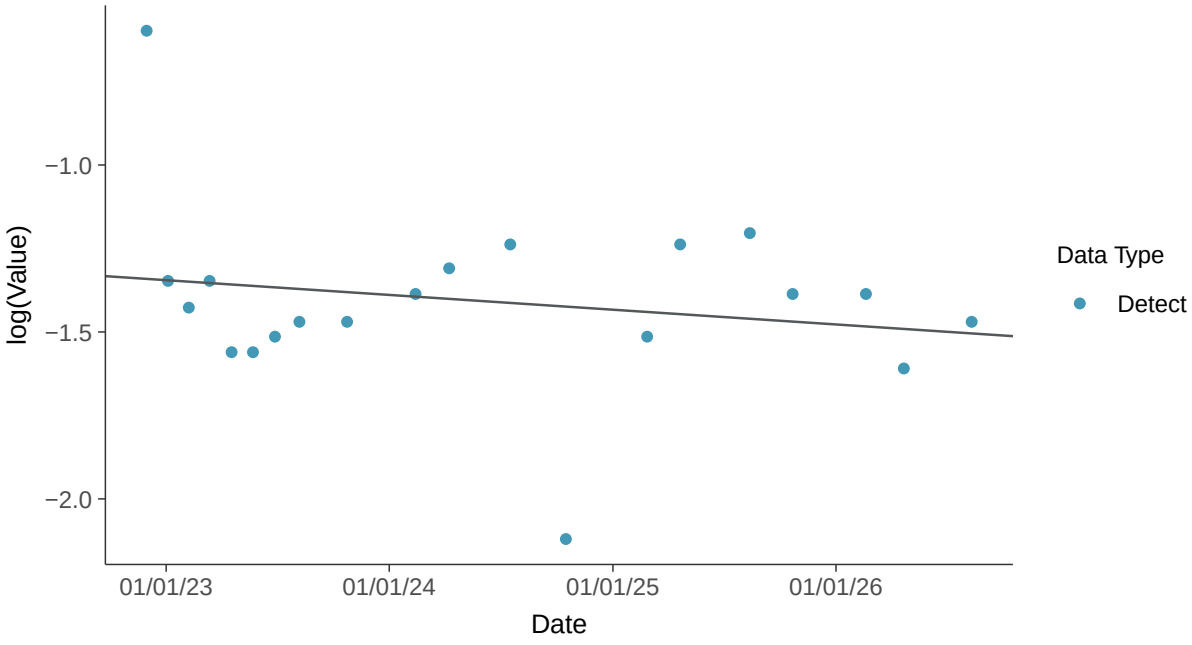
Gamma Q-Q plot

Fluoride, MW-20 (mg/L)



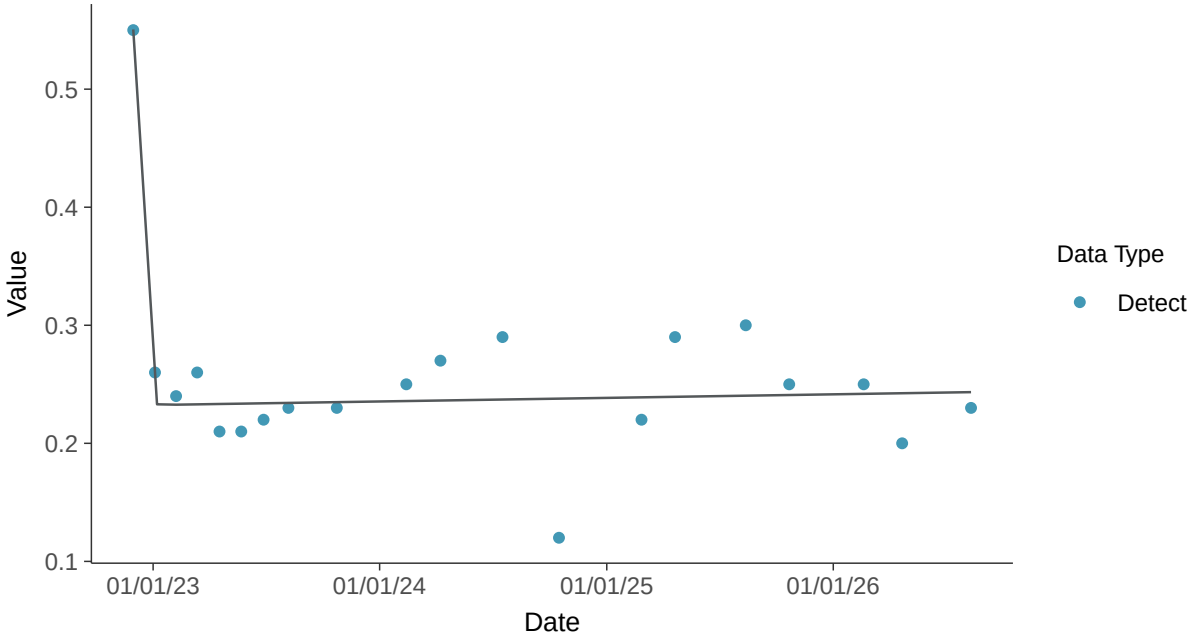
Trend Regression: Lognormal MLE

Fluoride, MW-20 (mg/L)



Trend Regression: Piecewise Linear-Linear

Fluoride, MW-20 (mg/L)

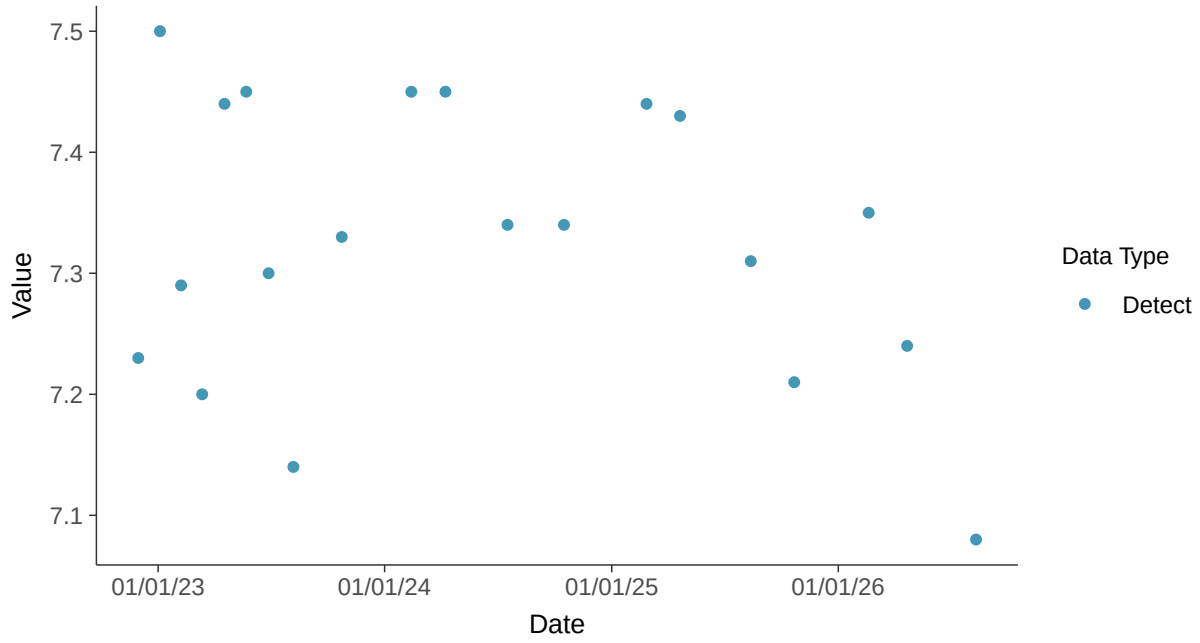


Appendix III: pH (field), MW-20

ID: 30_1_3_120

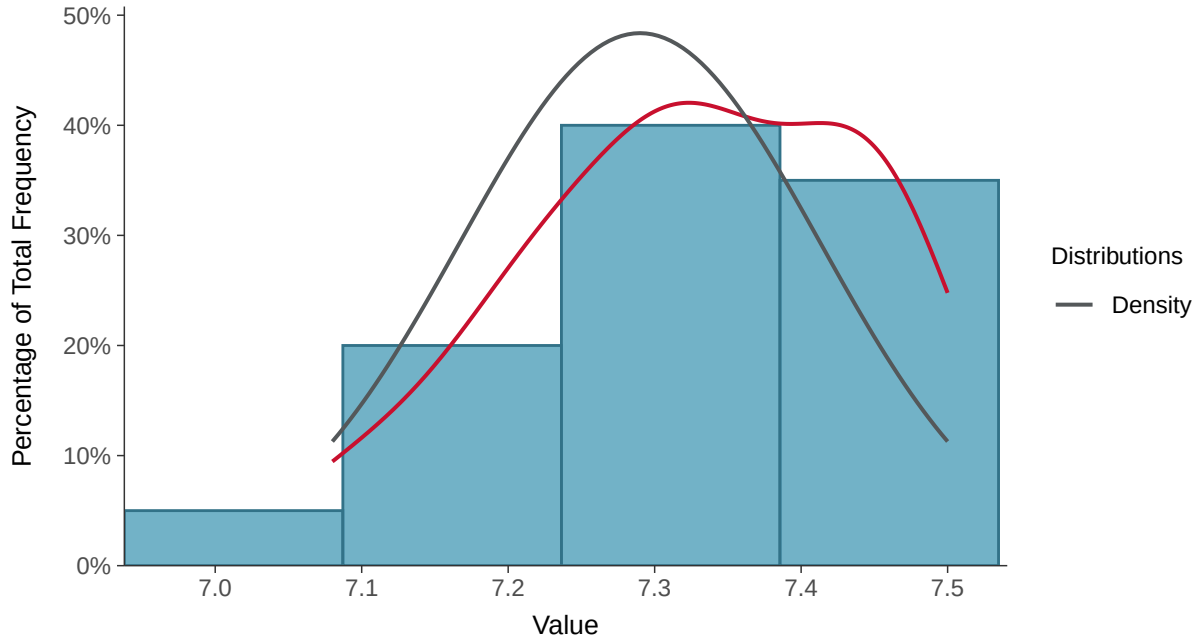
Scatter Plot

pH (field), MW-20 (su)



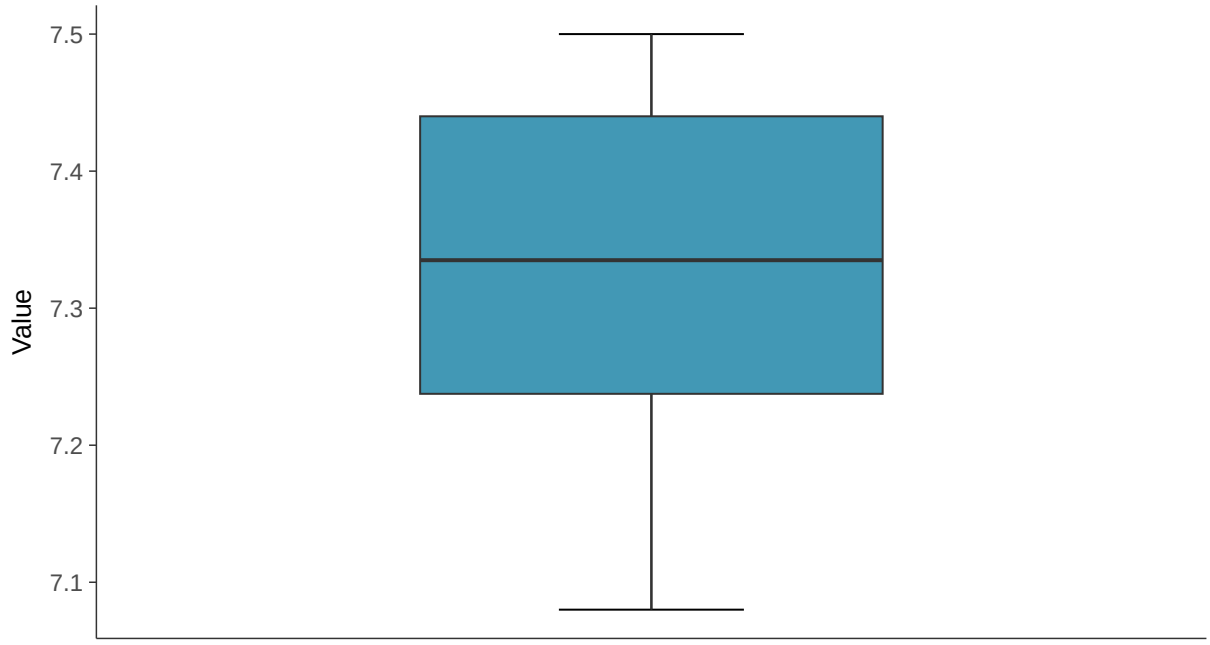
Histogram

pH (field), MW-20 (su)



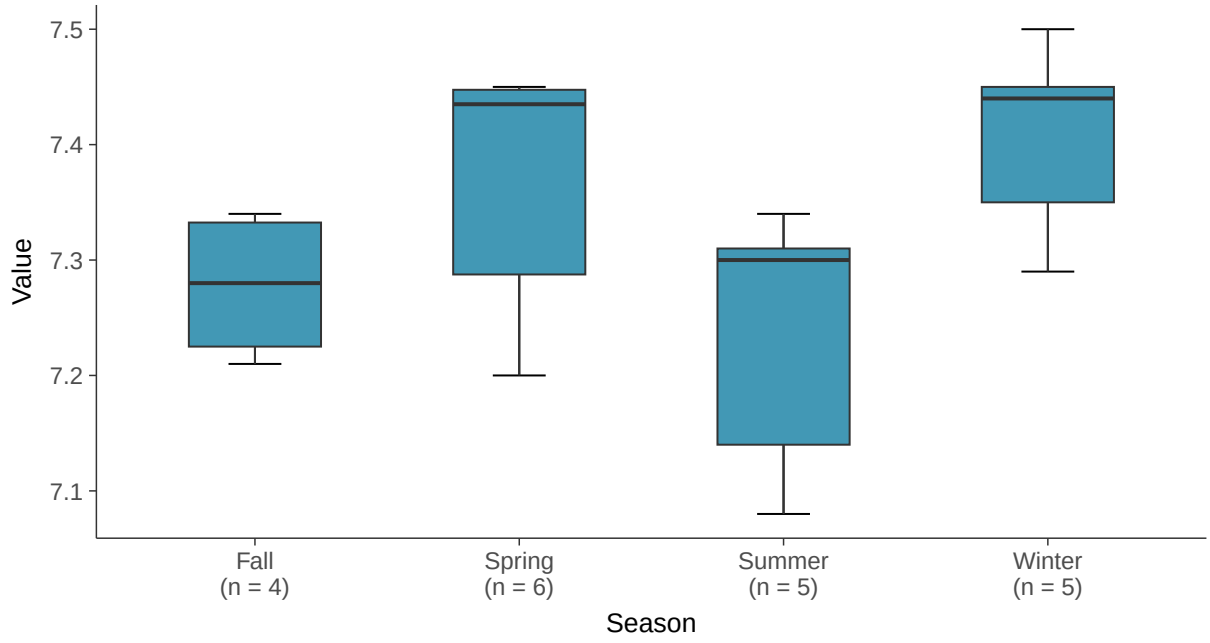
Boxplot

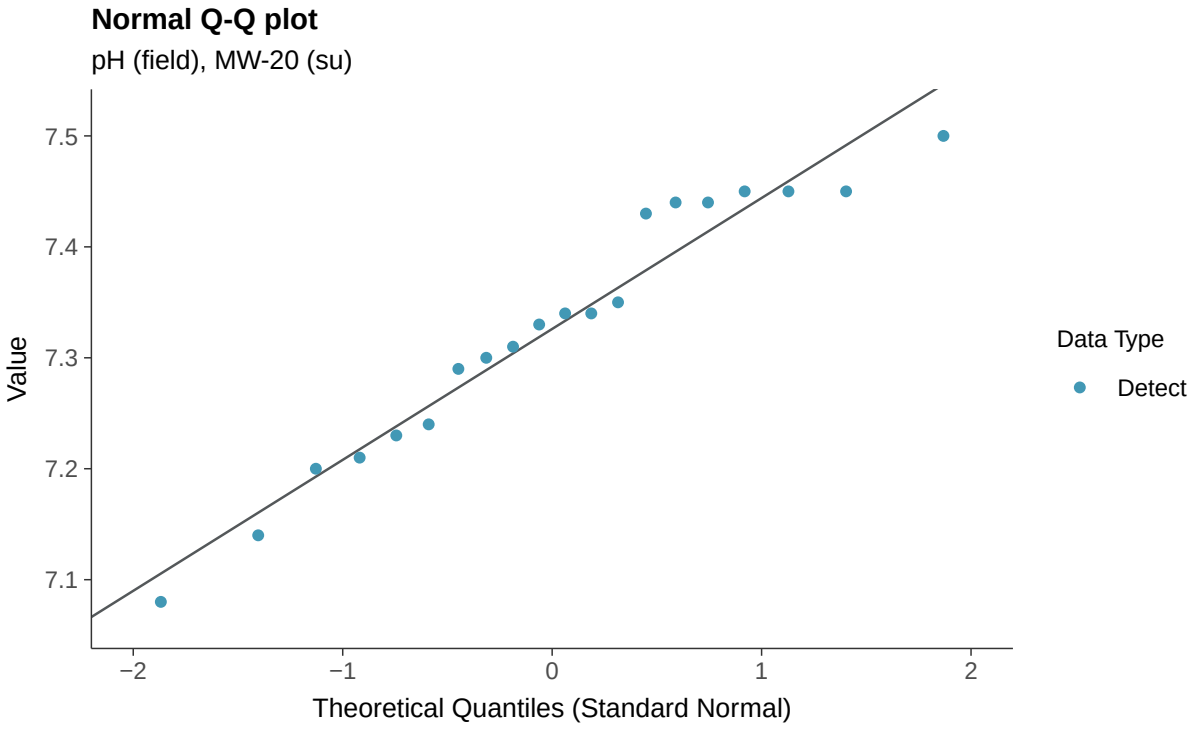
pH (field), MW-20 (su)

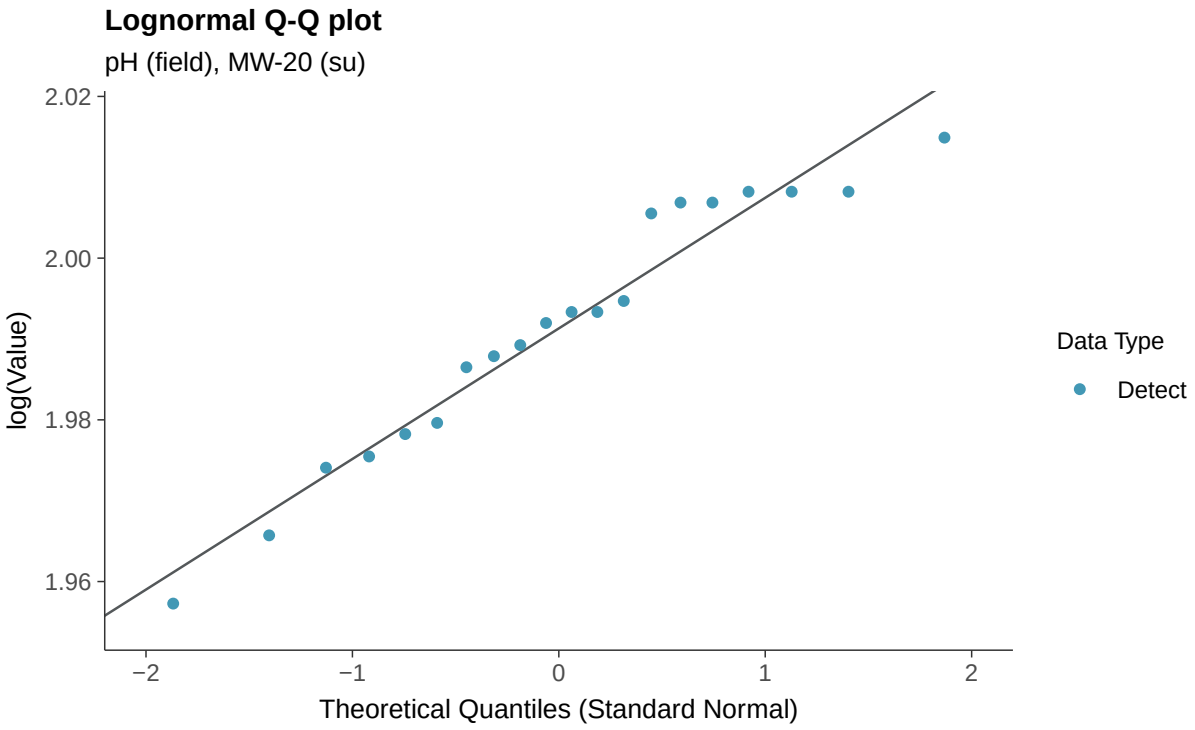


Boxplot by Season

pH (field), MW-20 (su)

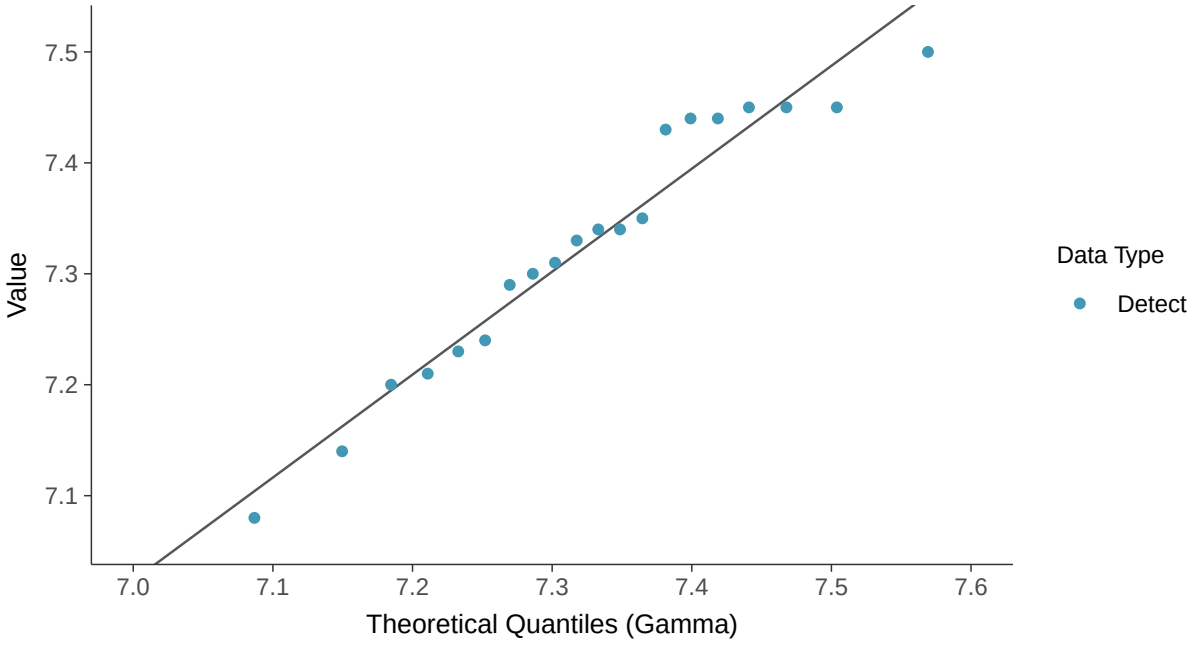



Normal Q-Q plot
pH (field), MW-20 (su)
Value
7.5
7.4
7.3
7.2
7.1
−2
−1
0
1
2
Theoretical Quantiles (Standard Normal)
Data Type
Detect


Lognormal Q-Q plot
pH (field), MW-20 (su)
log(Value)
2.02
2.00
1.98
1.96
−2
−1
0
1
2
Theoretical Quantiles (Standard Normal)
Data Type
Detect

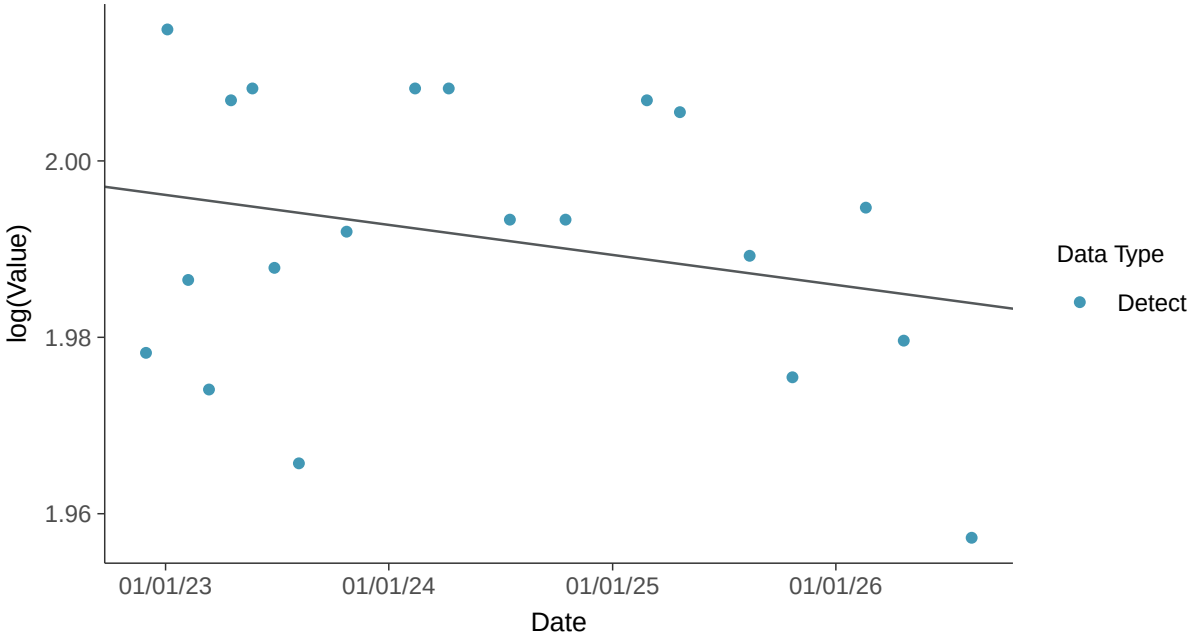
Gamma Q-Q plot

pH (field), MW-20 (su)



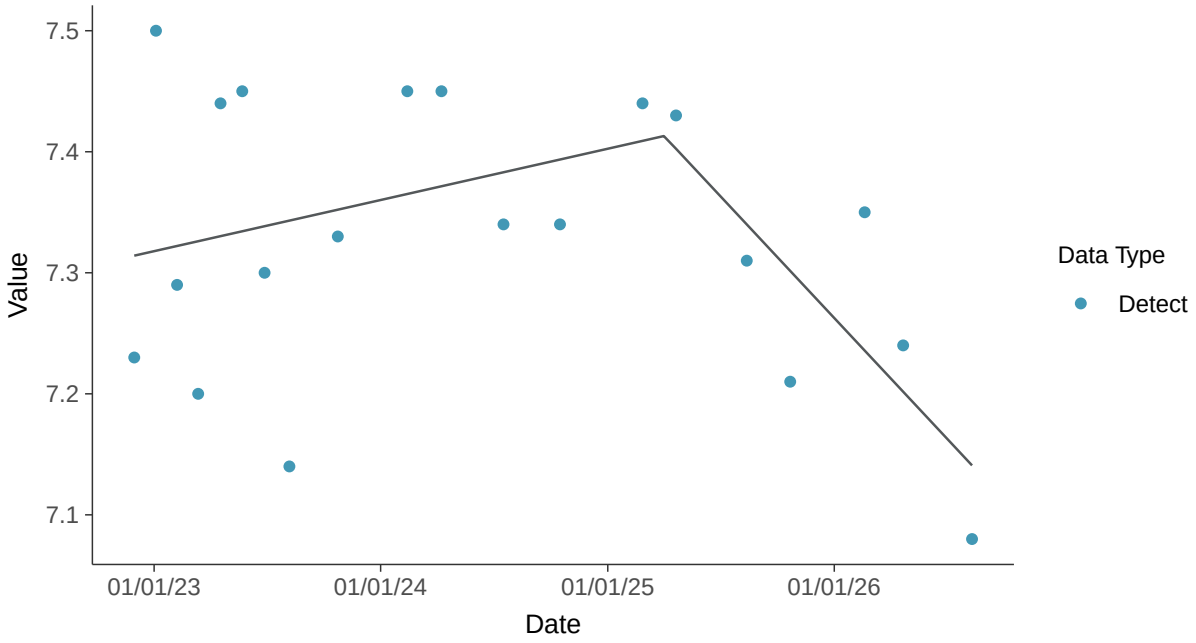
Trend Regression: Lognormal MLE

pH (field), MW-20 (su)



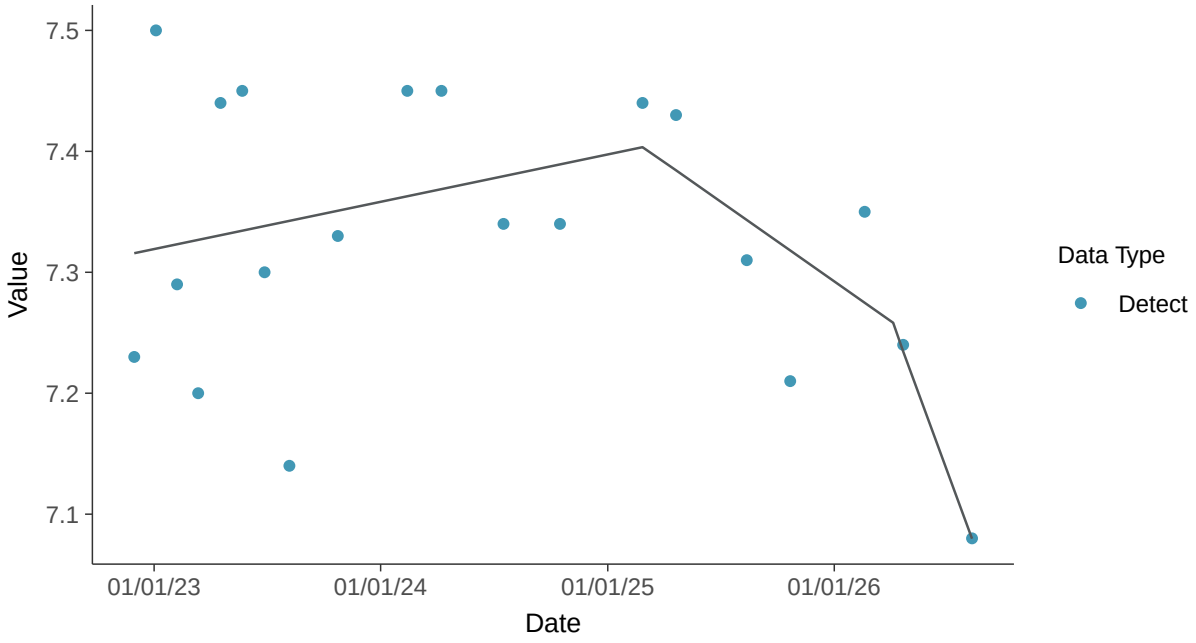
Trend Regression: Piecewise Linear-Linear

pH (field), MW-20 (su)



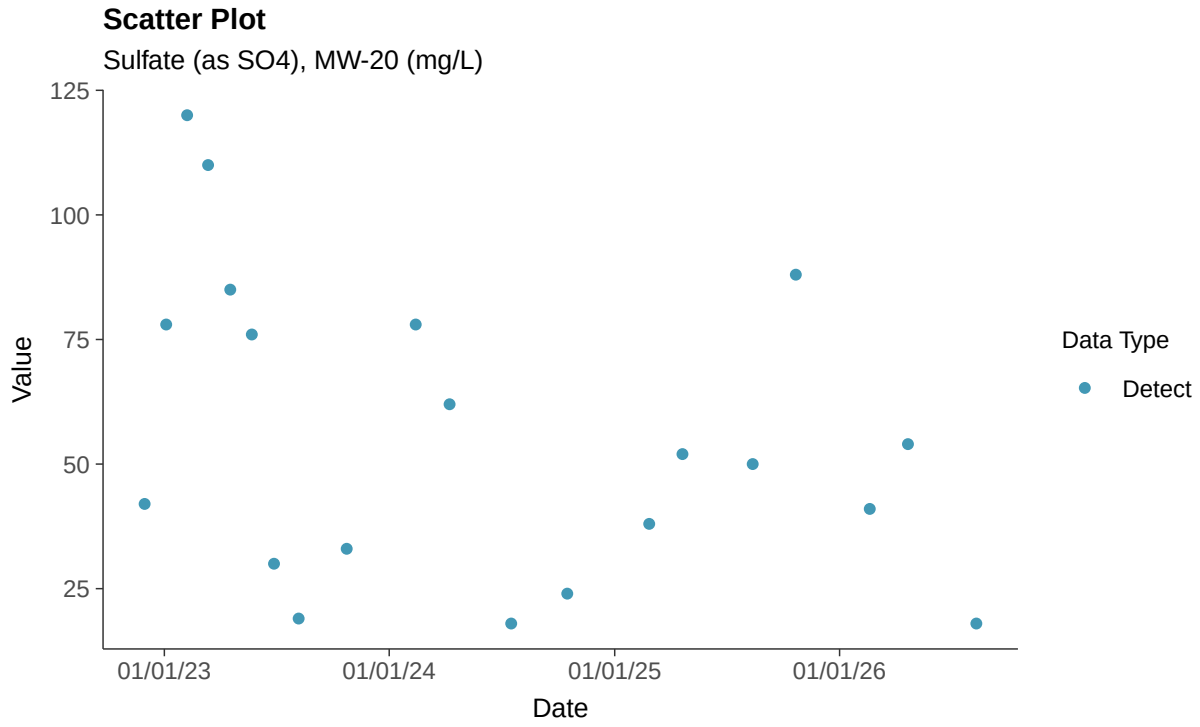
Trend Regression: Piecewise Linear-Linear-Linear

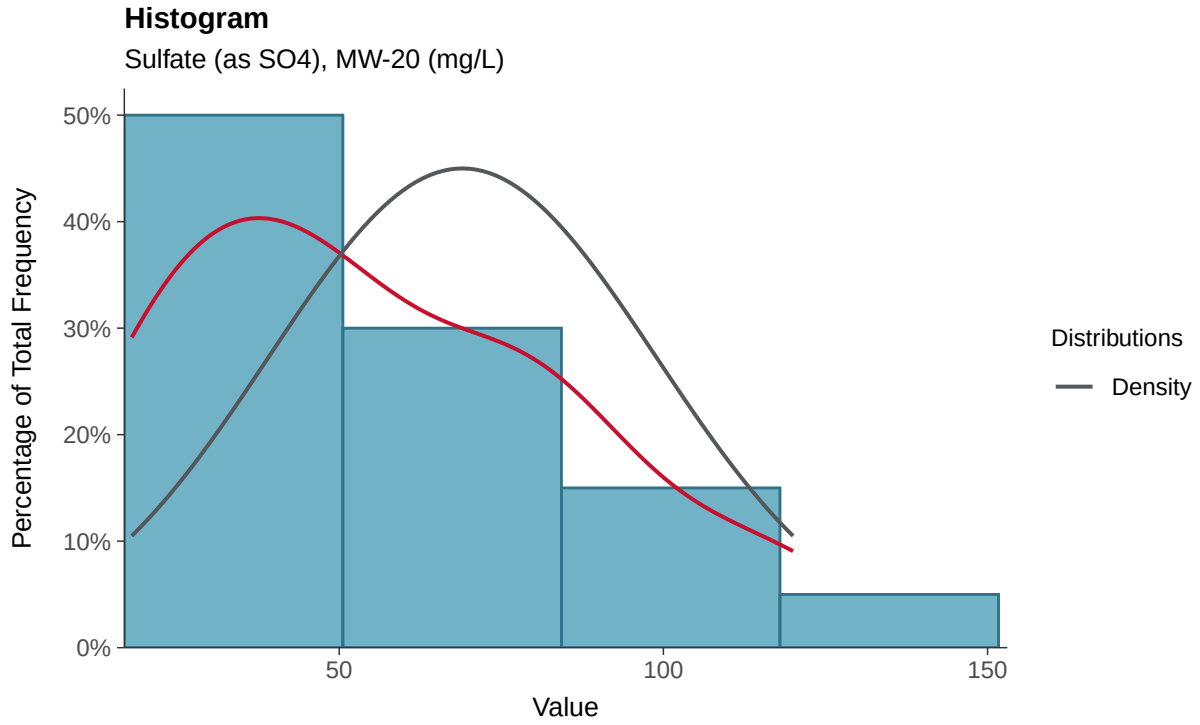
pH (field), MW-20 (su)



Appendix III: Sulfate (as SO4), MW-20

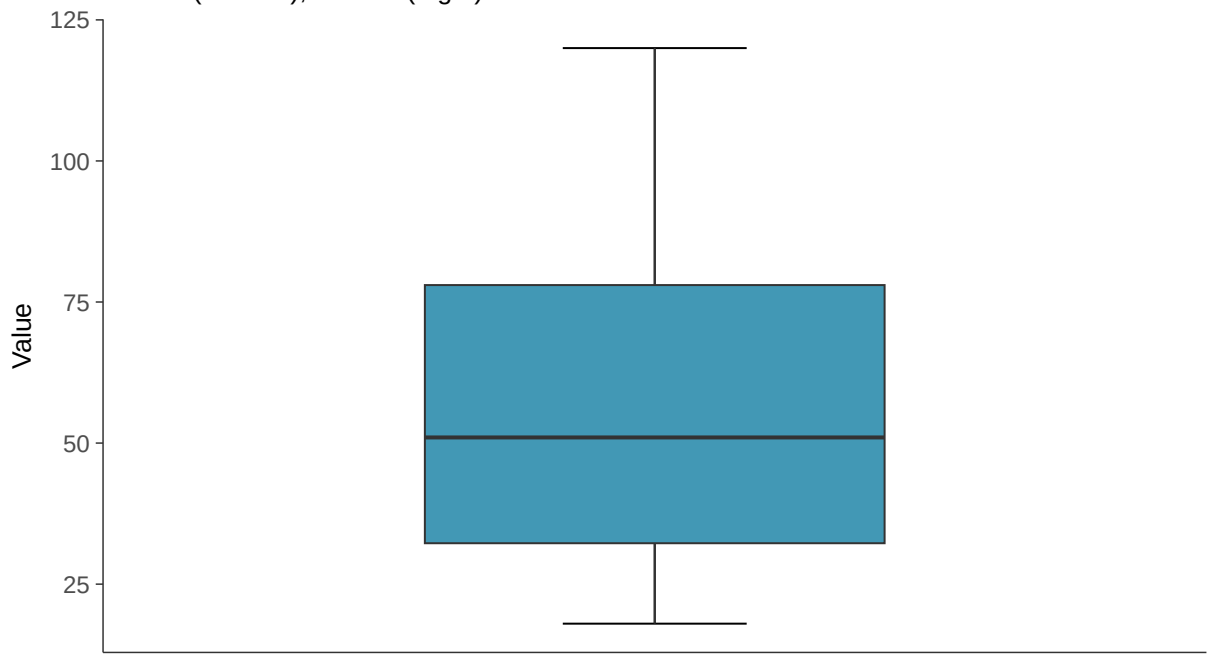
ID: 30_1_3_124





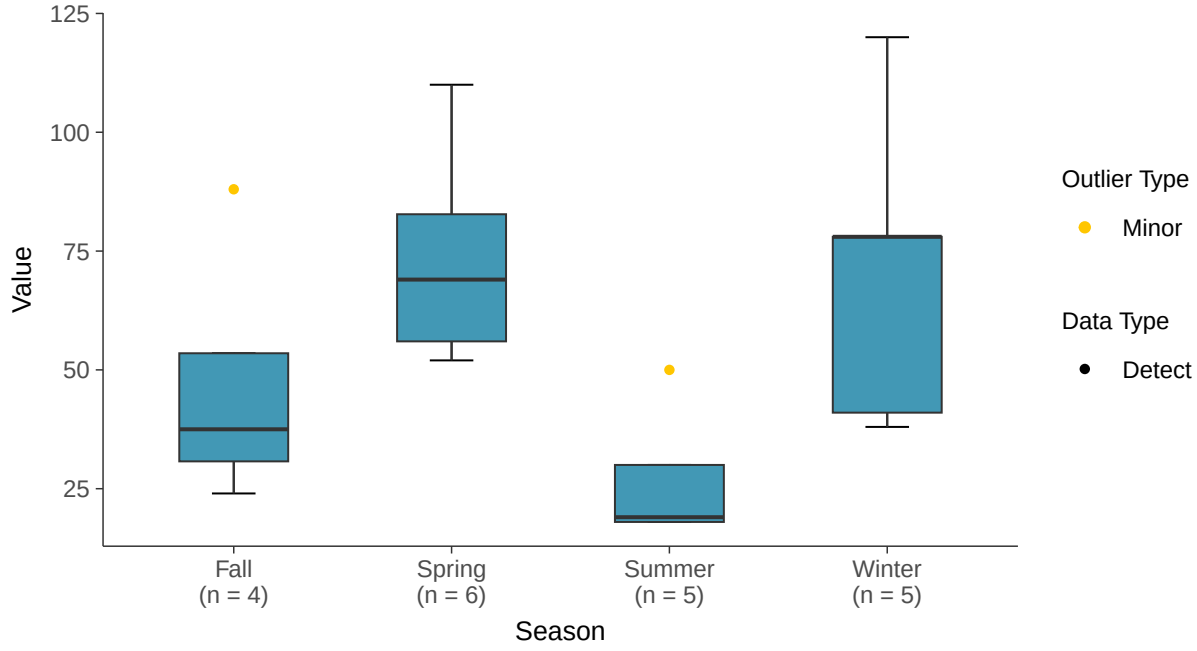
Boxplot

Sulfate (as SO4), MW-20 (mg/L)



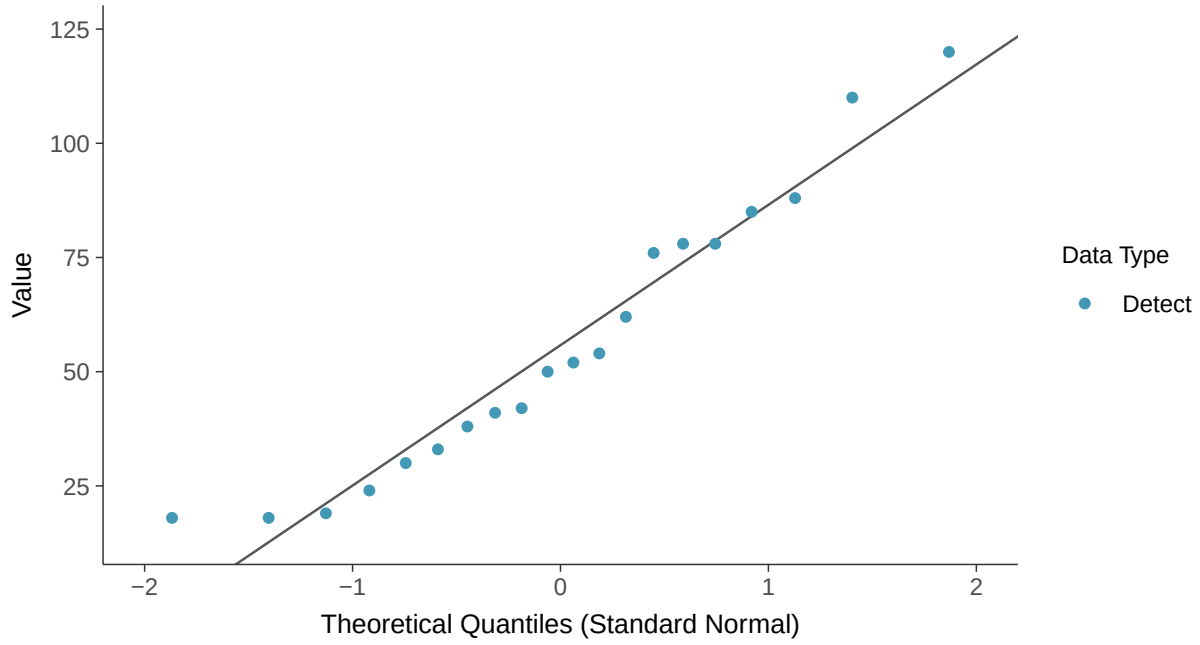
Boxplot by Season

Sulfate (as SO4), MW-20 (mg/L)



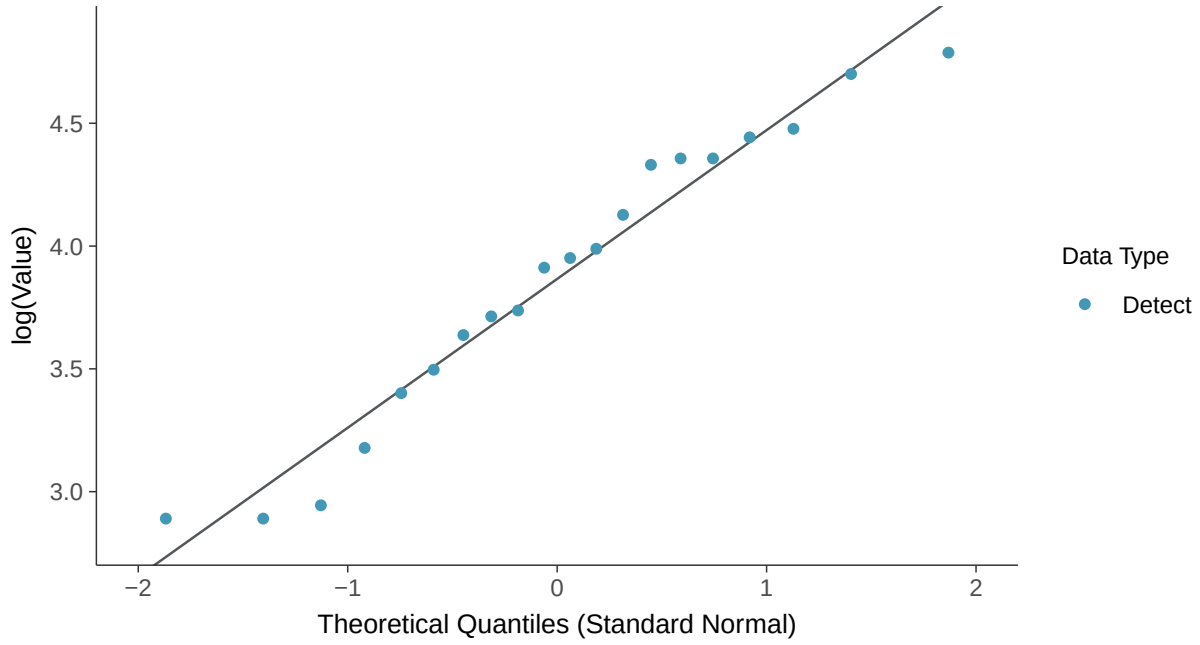
Normal Q-Q plot

Sulfate (as SO4), MW-20 (mg/L)



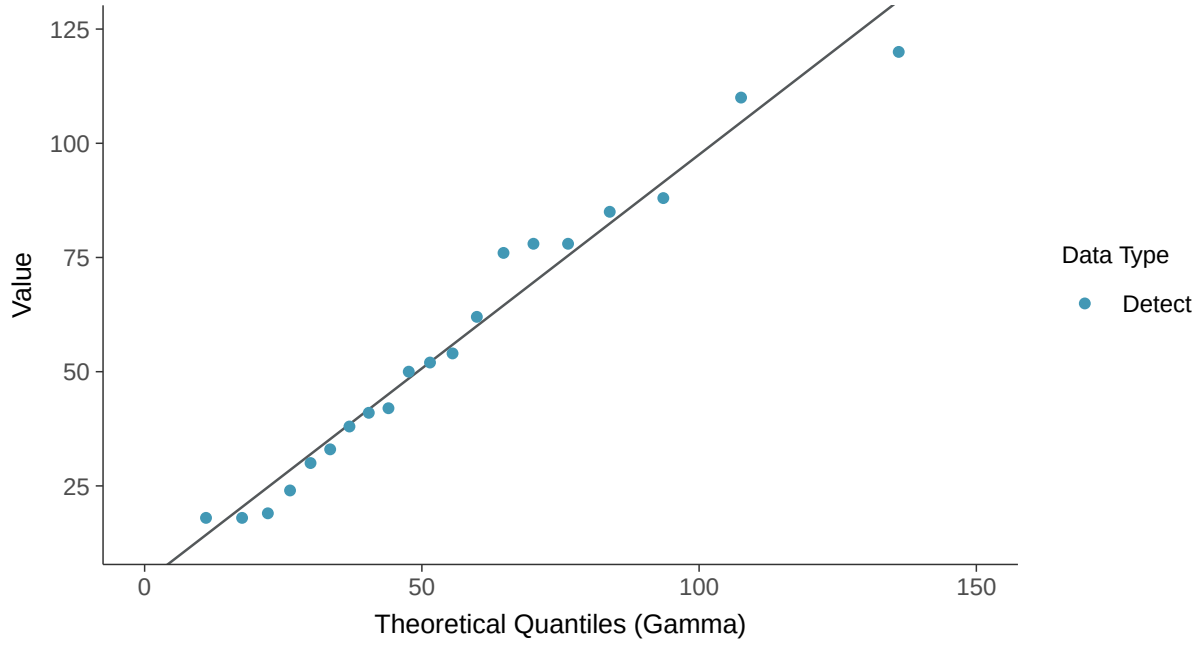
Lognormal Q-Q plot

Sulfate (as SO4), MW-20 (mg/L)



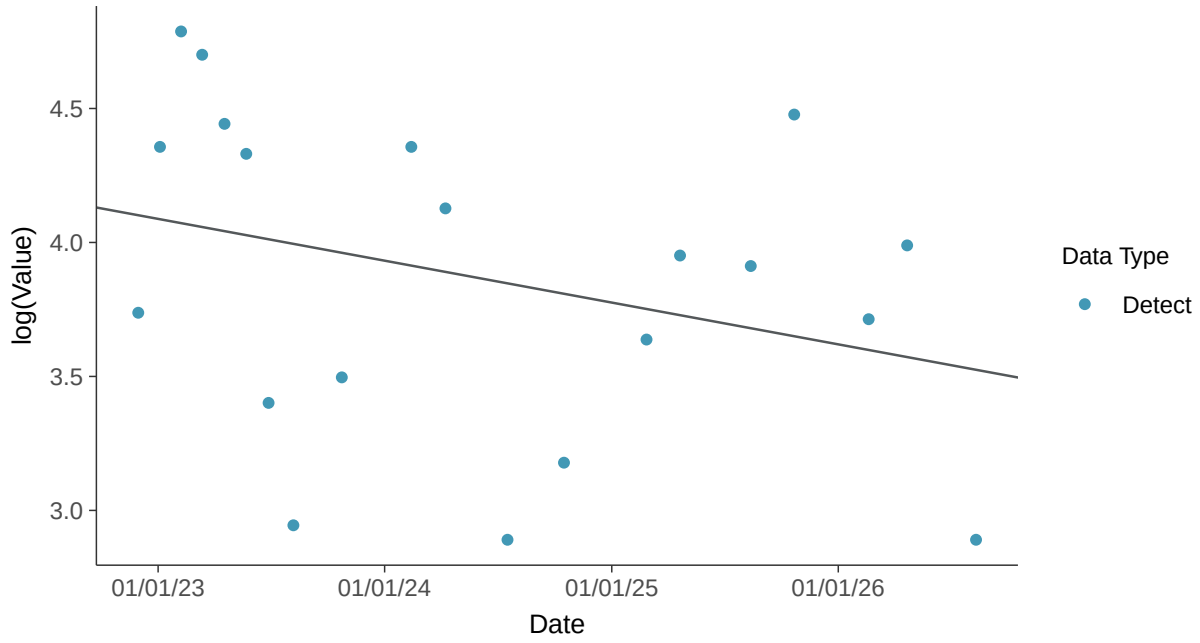
Gamma Q-Q plot

Sulfate (as SO4), MW-20 (mg/L)



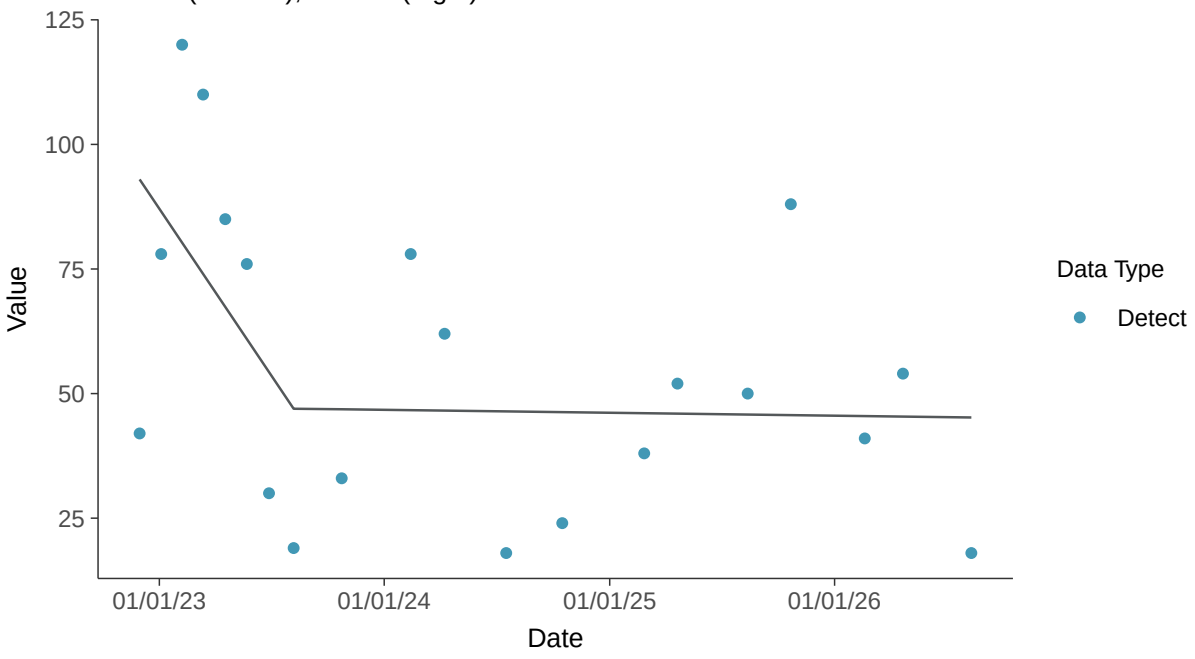
Trend Regression: Lognormal MLE

Sulfate (as SO4), MW-20 (mg/L)



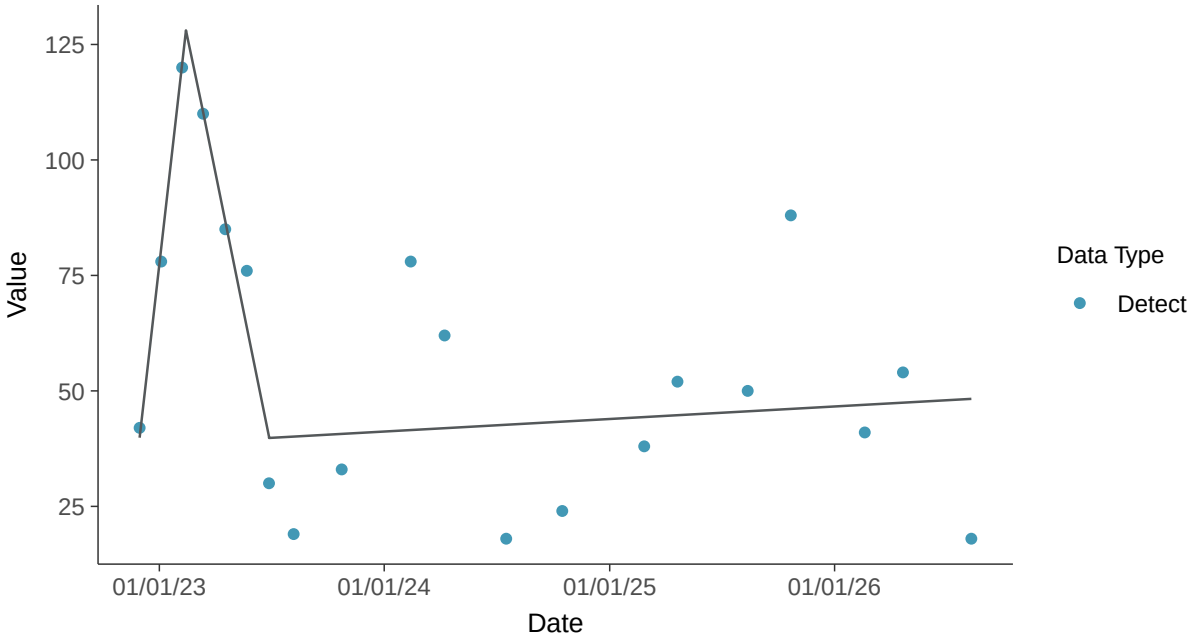
Trend Regression: Piecewise Linear-Linear

Sulfate (as SO4), MW-20 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Sulfate (as SO4), MW-20 (mg/L)

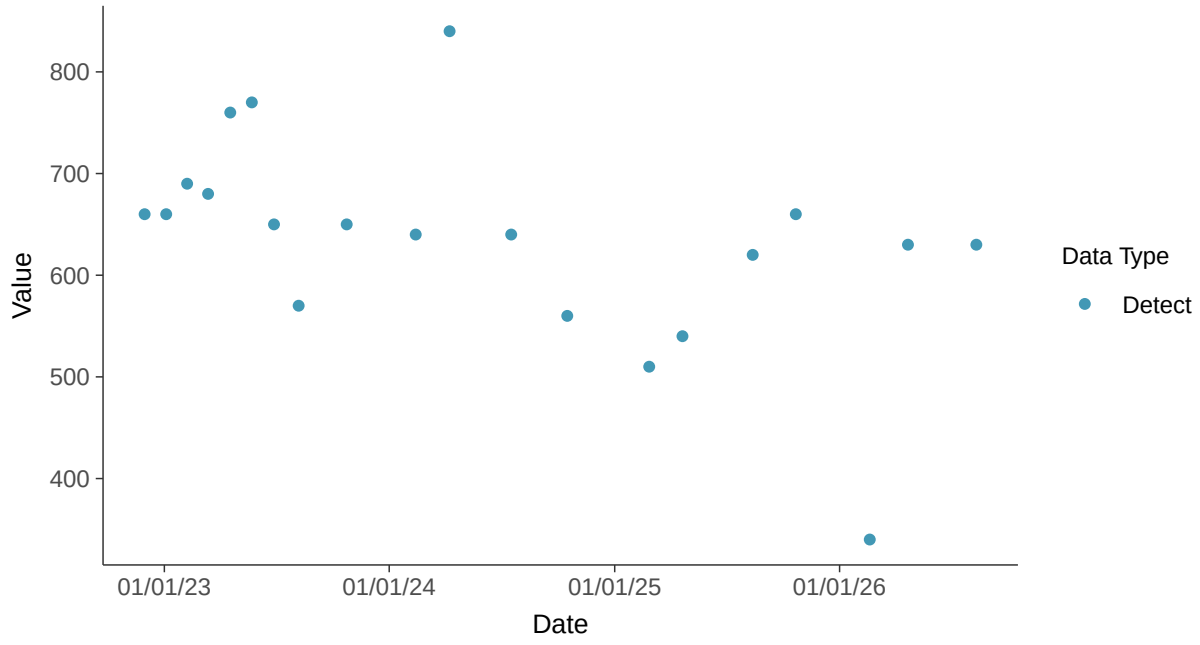


Appendix III: Total Dissolved Solids, MW-20

ID: 30_1_3_126

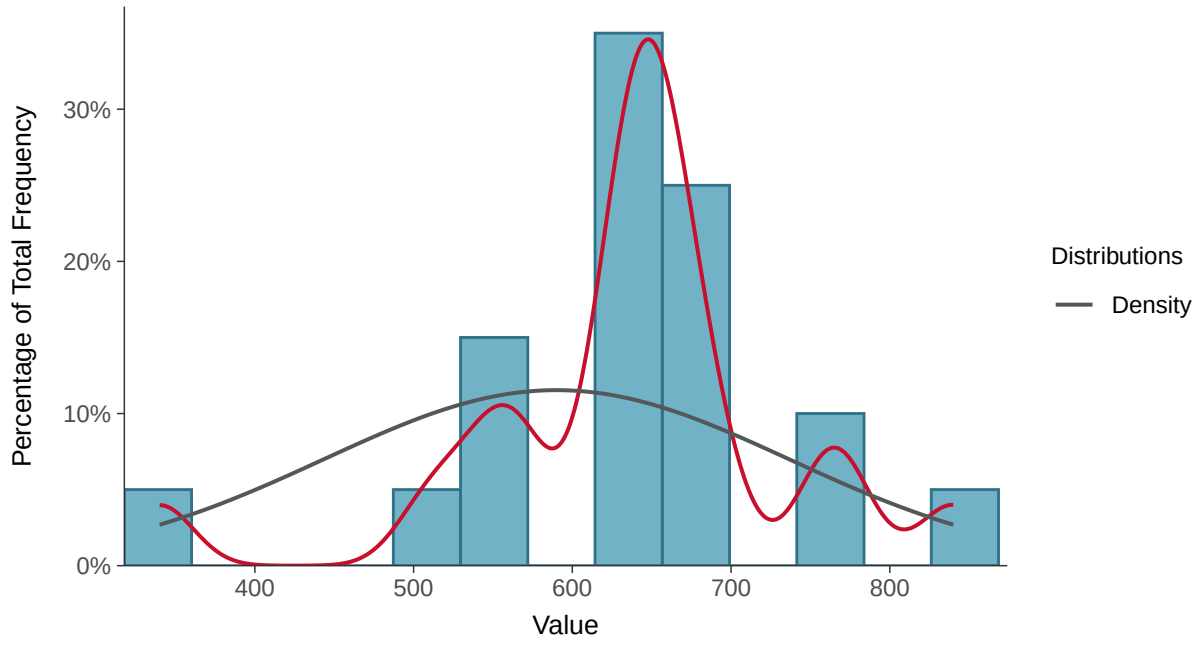
Scatter Plot

Total Dissolved Solids, MW-20 (mg/L)



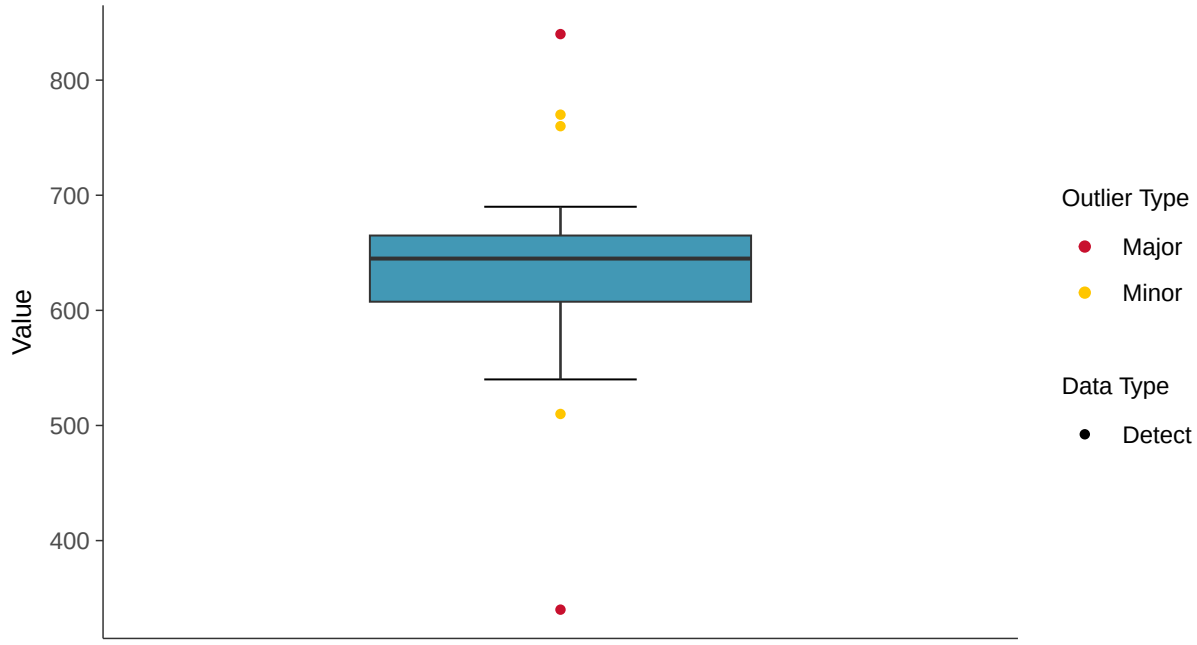
Histogram

Total Dissolved Solids, MW-20 (mg/L)



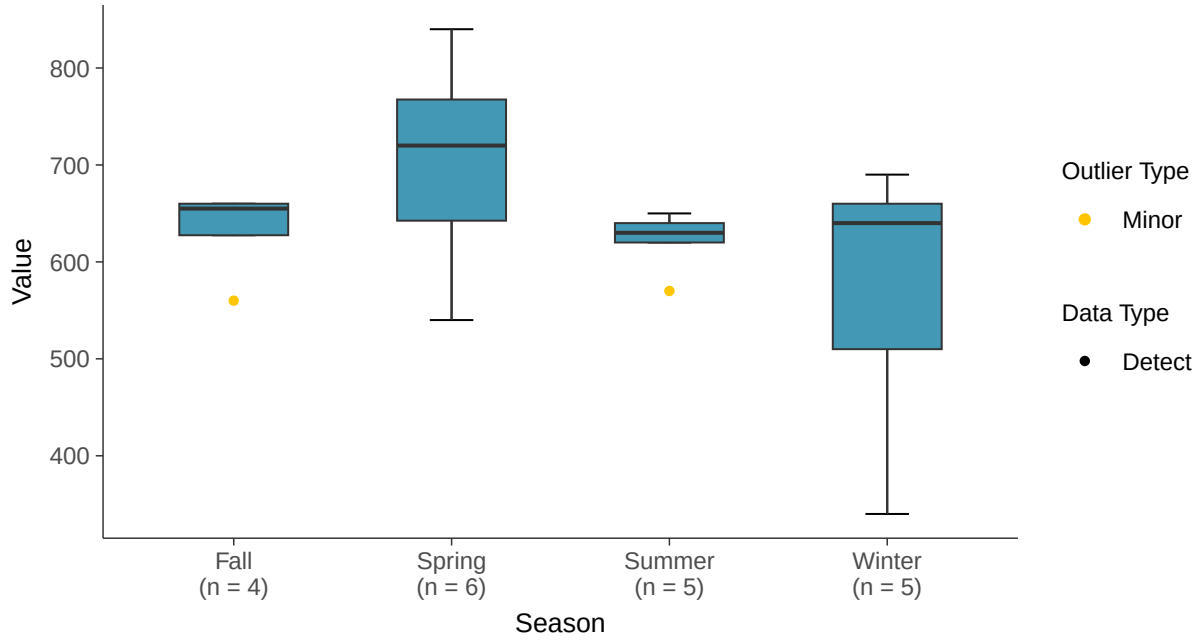
Boxplot

Total Dissolved Solids, MW-20 (mg/L)



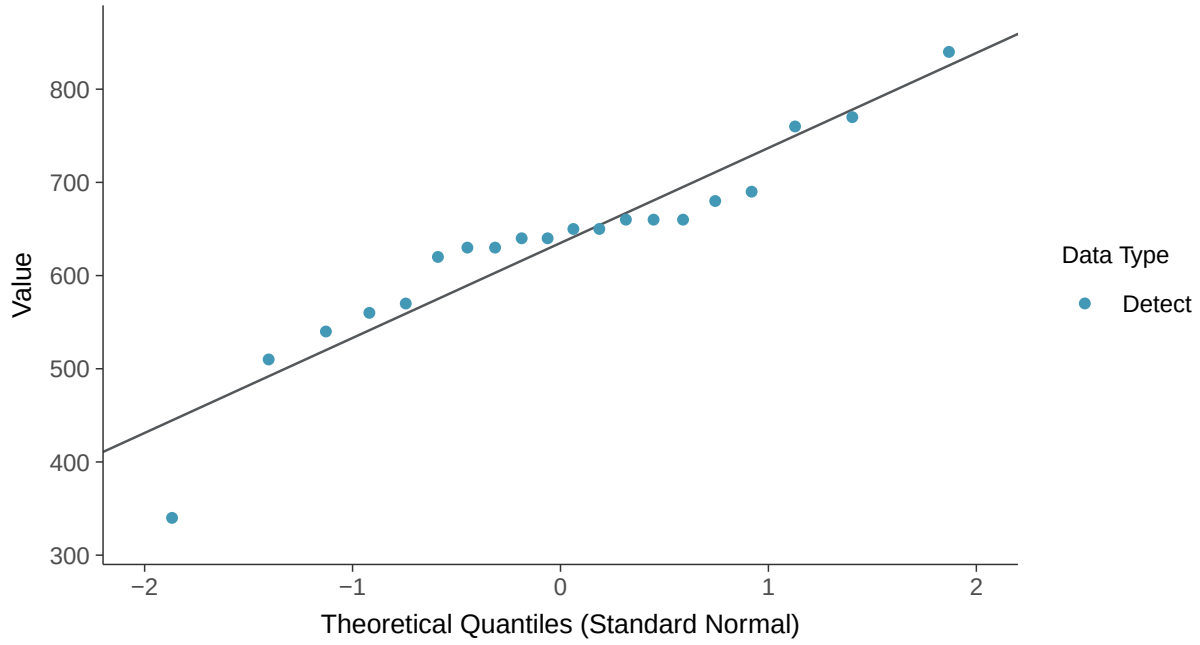
Boxplot by Season

Total Dissolved Solids, MW-20 (mg/L)



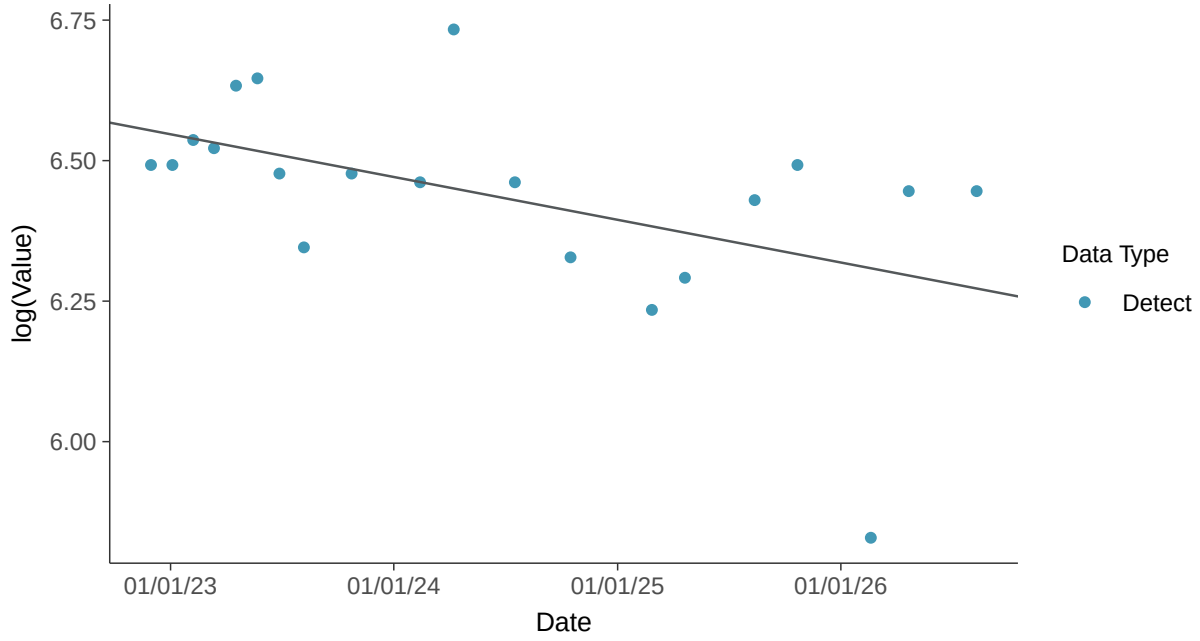
Normal Q-Q plot

Total Dissolved Solids, MW-20 (mg/L)



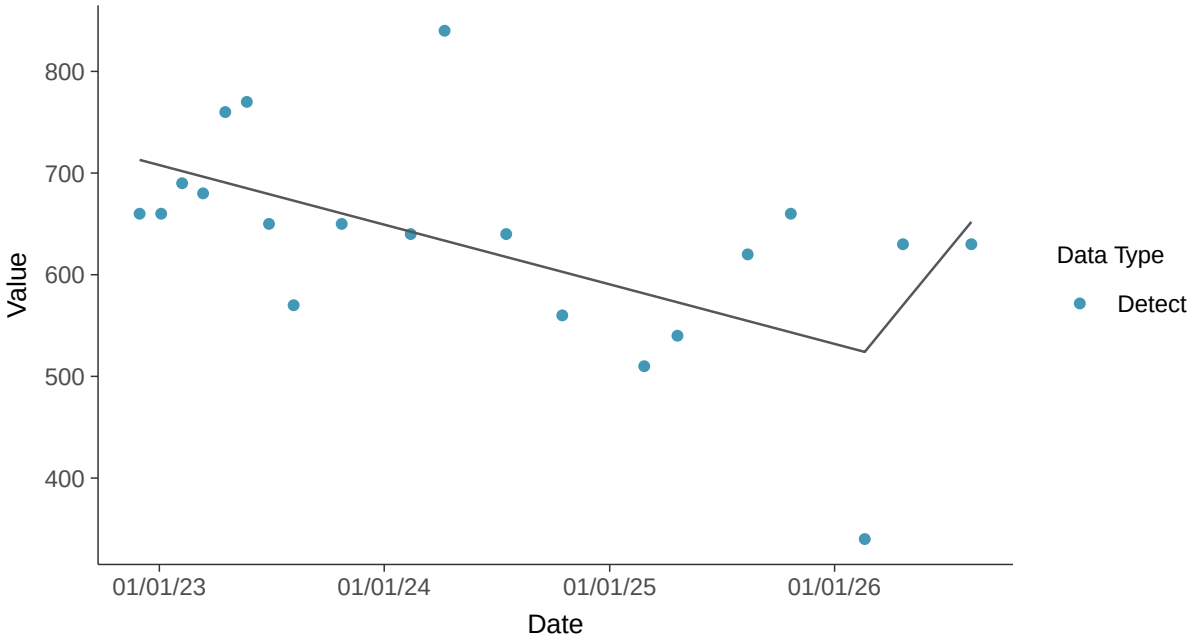
Trend Regression: Lognormal MLE

Total Dissolved Solids, MW-20 (mg/L)



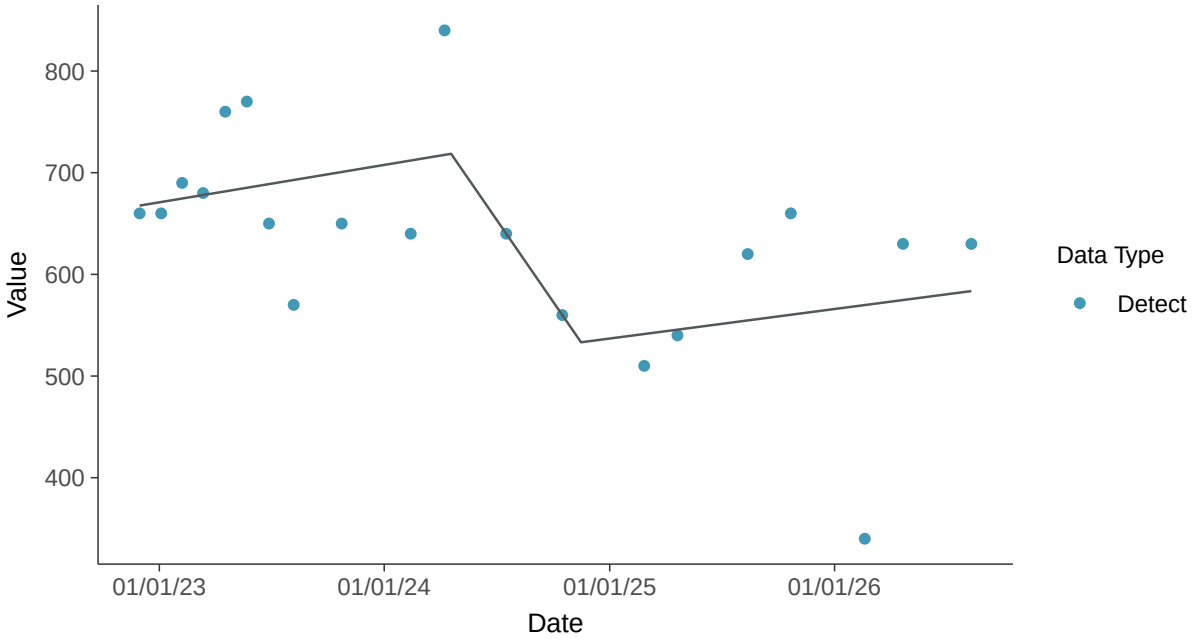
Trend Regression: Piecewise Linear-Linear

Total Dissolved Solids, MW-20 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Total Dissolved Solids, MW-20 (mg/L)

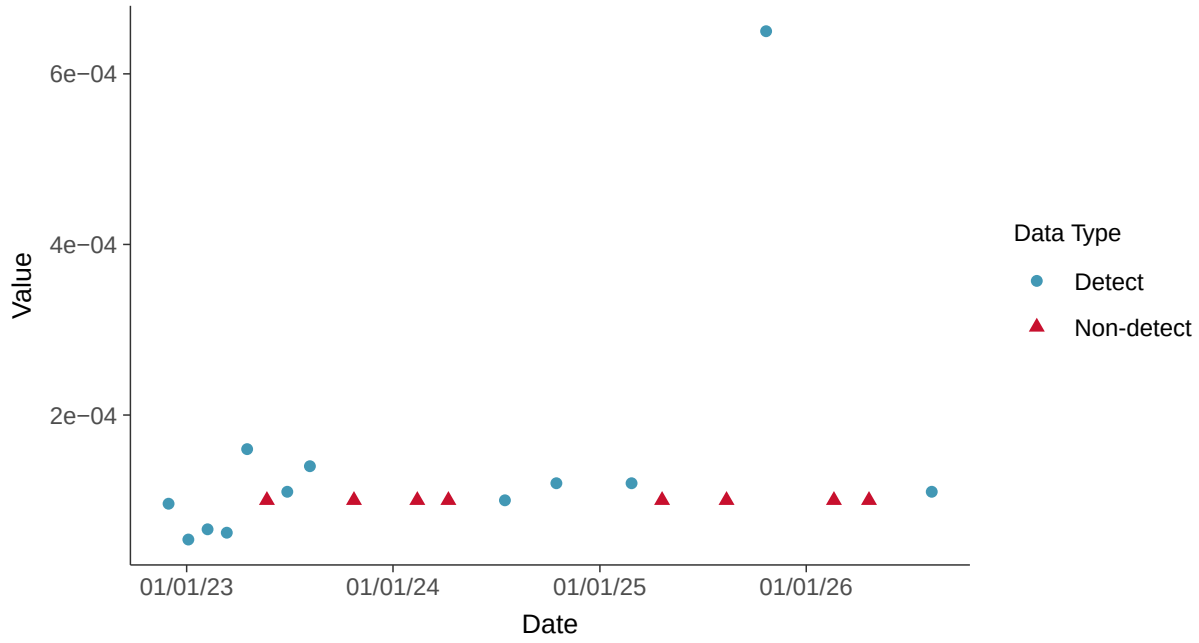


Appendix IV: Antimony, MW-20

ID: 30_1_4_101

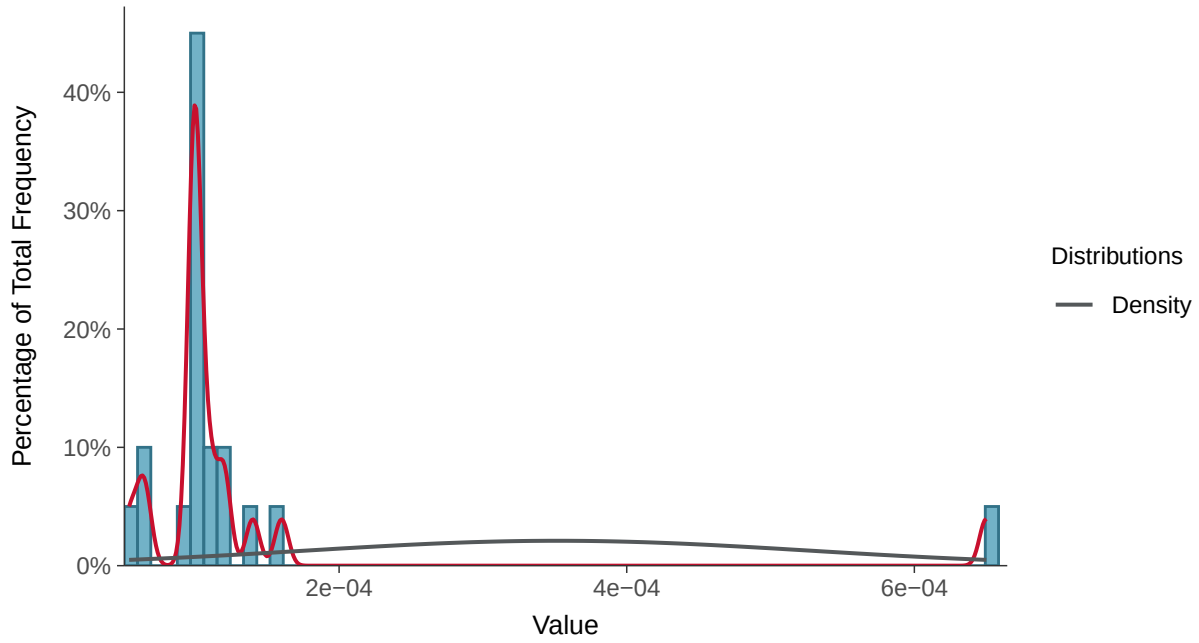
Scatter Plot

Antimony, MW-20 (mg/L)



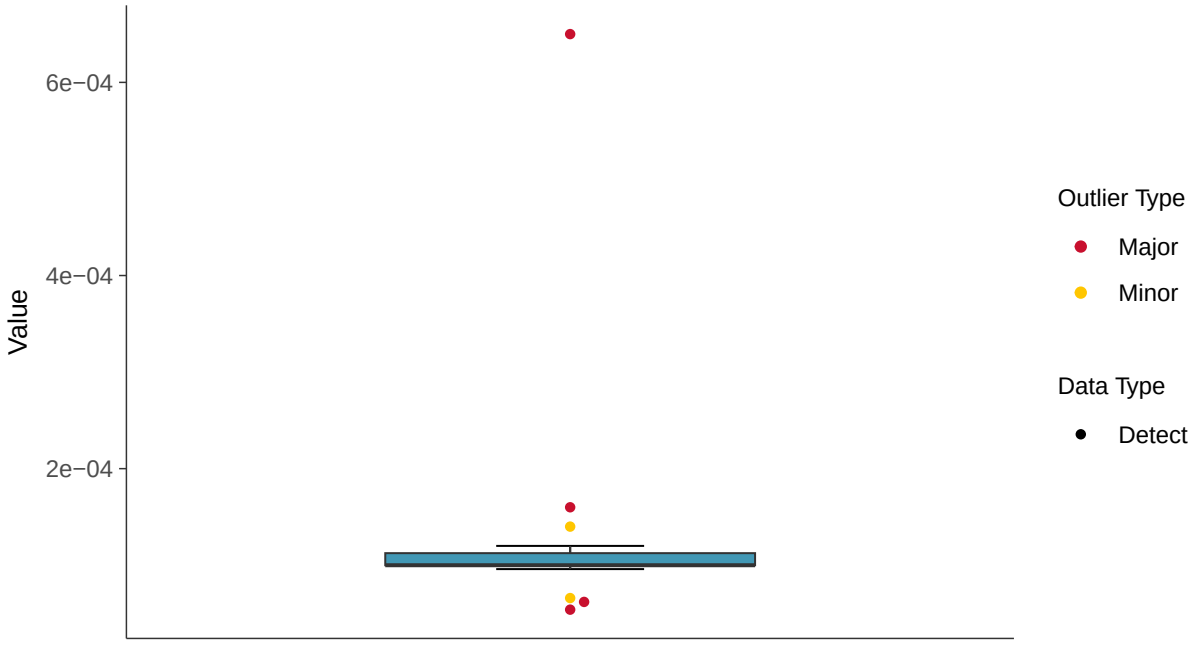
Histogram

Antimony, MW-20 (mg/L)



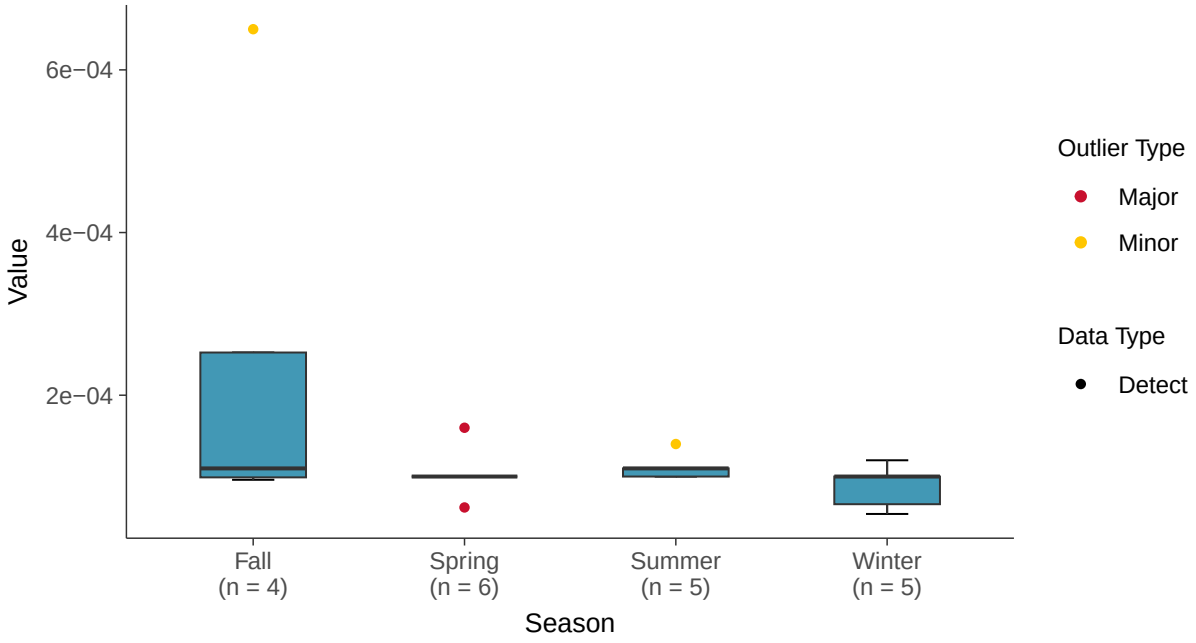
Boxplot

Antimony, MW-20 (mg/L)



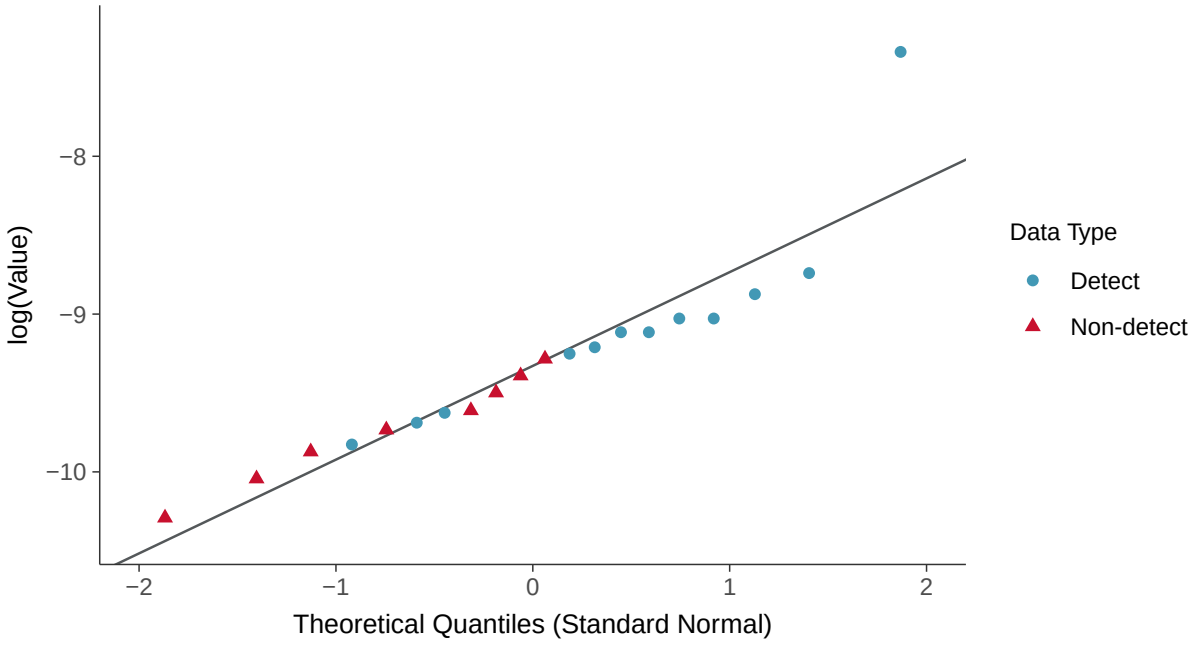
Boxplot by Season

Antimony, MW-20 (mg/L)



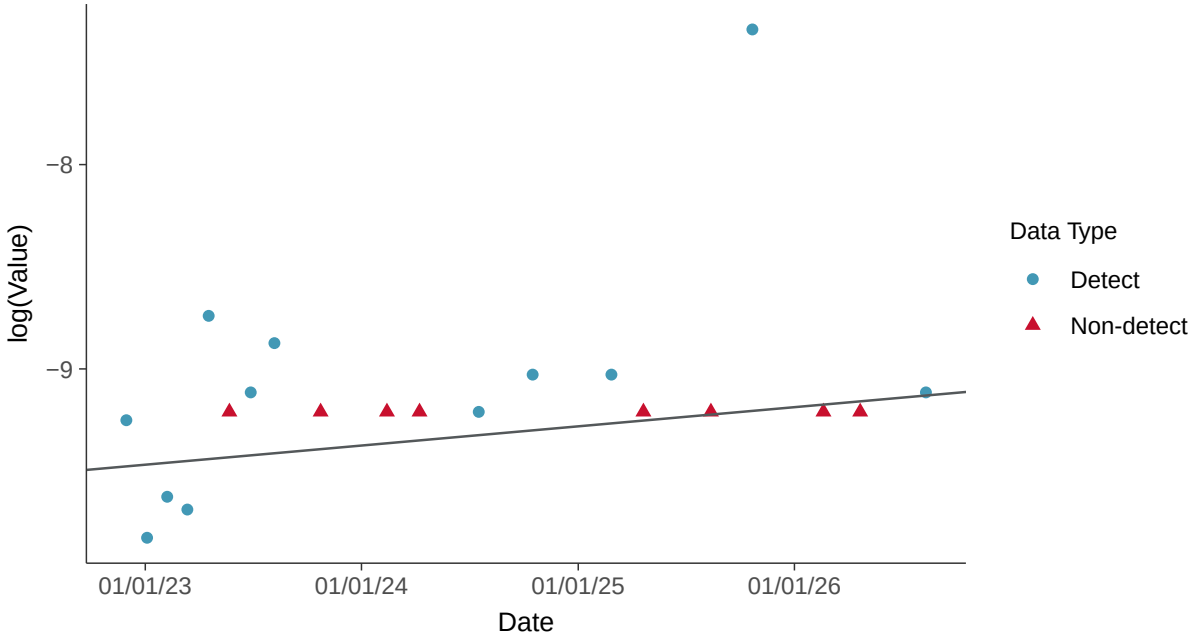
Lognormal Q-Q plot using ROS Imputed Estimates

Antimony, MW-20 (mg/L)



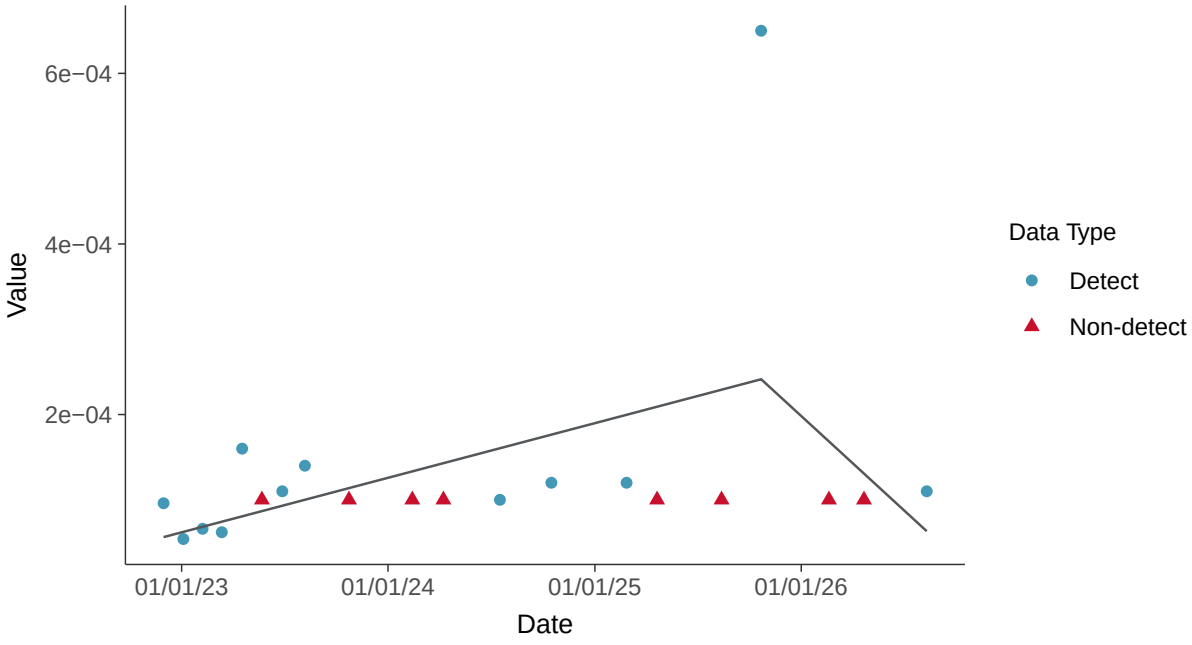
Trend Regression: Lognormal MLE

Antimony, MW-20 (mg/L)



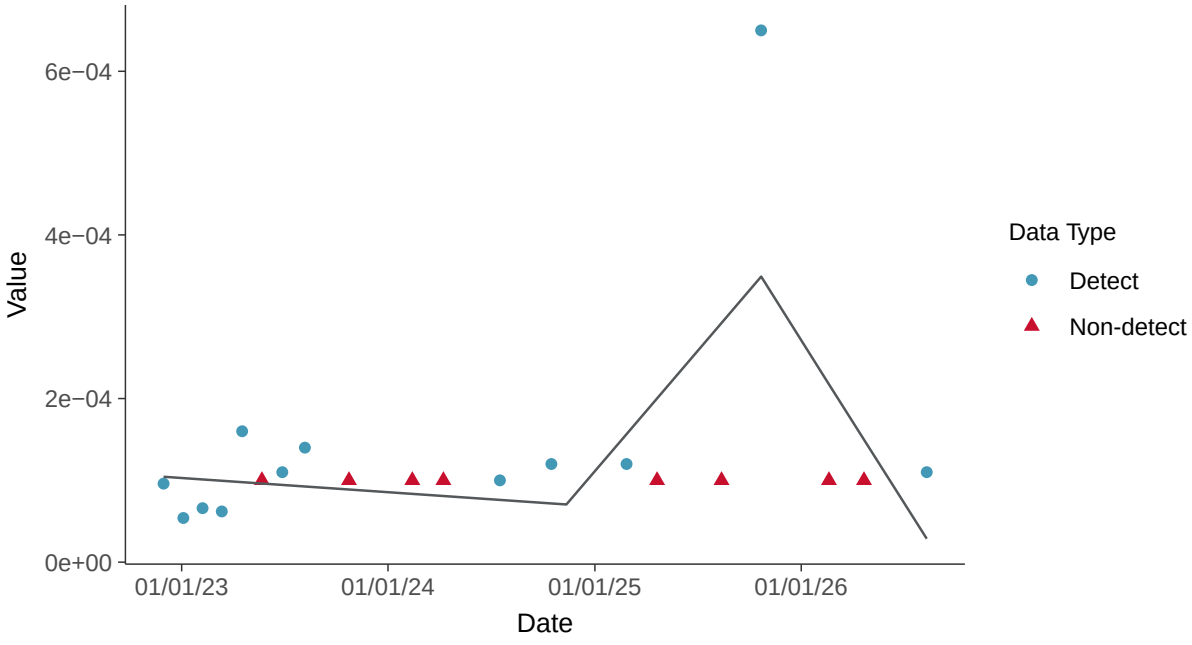
Trend Regression: Piecewise Linear-Linear

Antimony, MW-20 (mg/L)



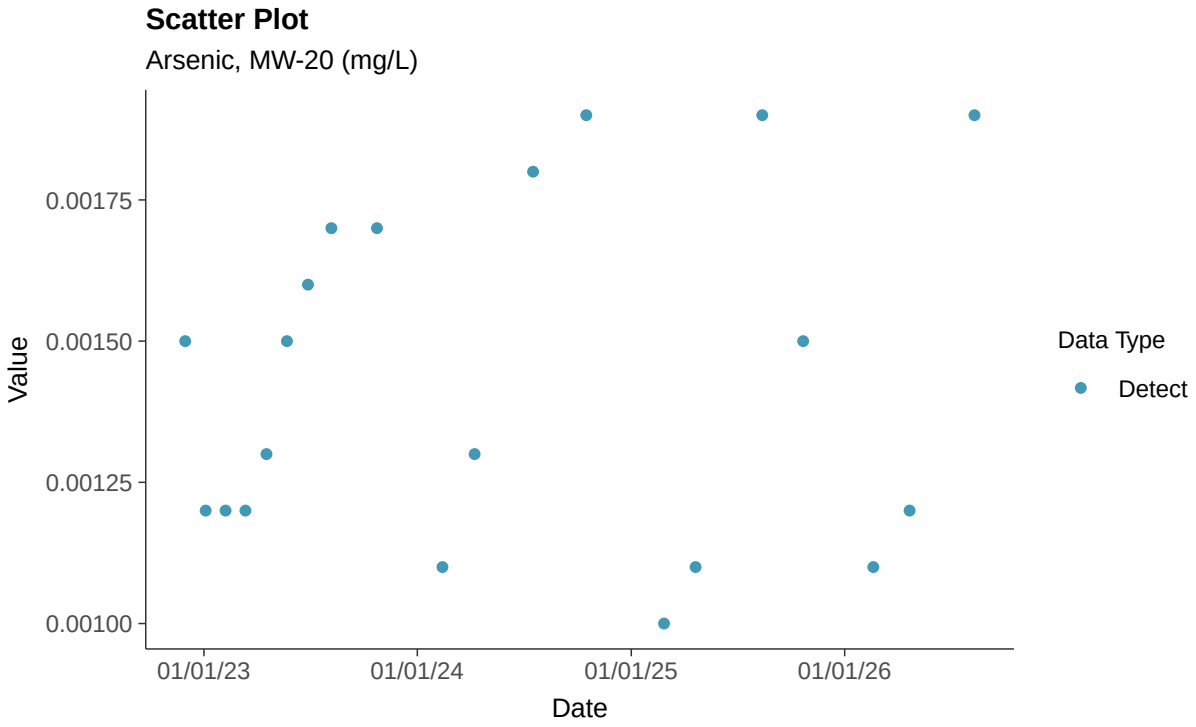
Trend Regression: Piecewise Linear-Linear-Linear

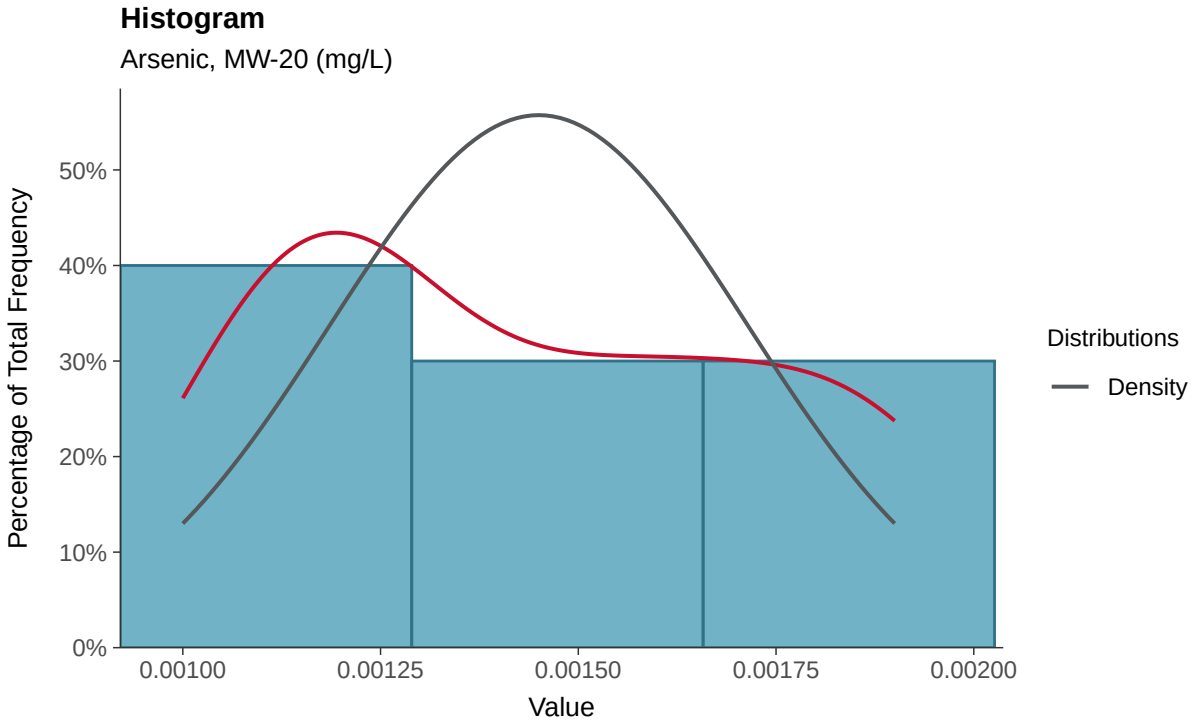
Antimony, MW-20 (mg/L)



Appendix IV: Arsenic, MW-20

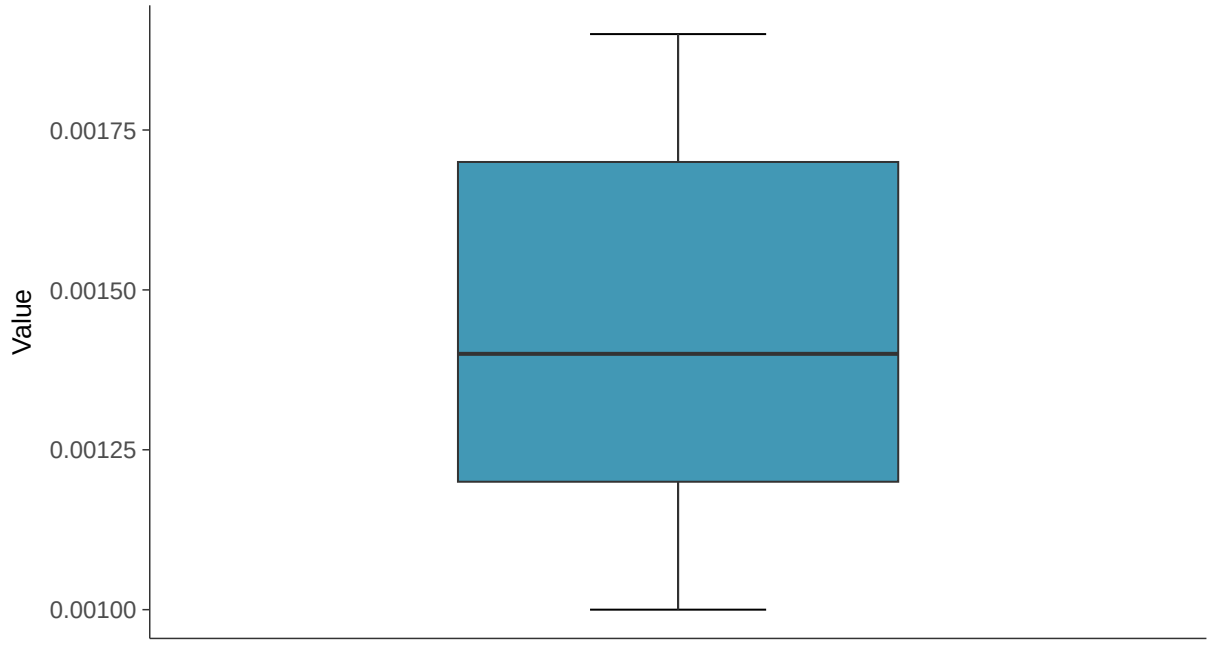
ID: 30_1_4_102





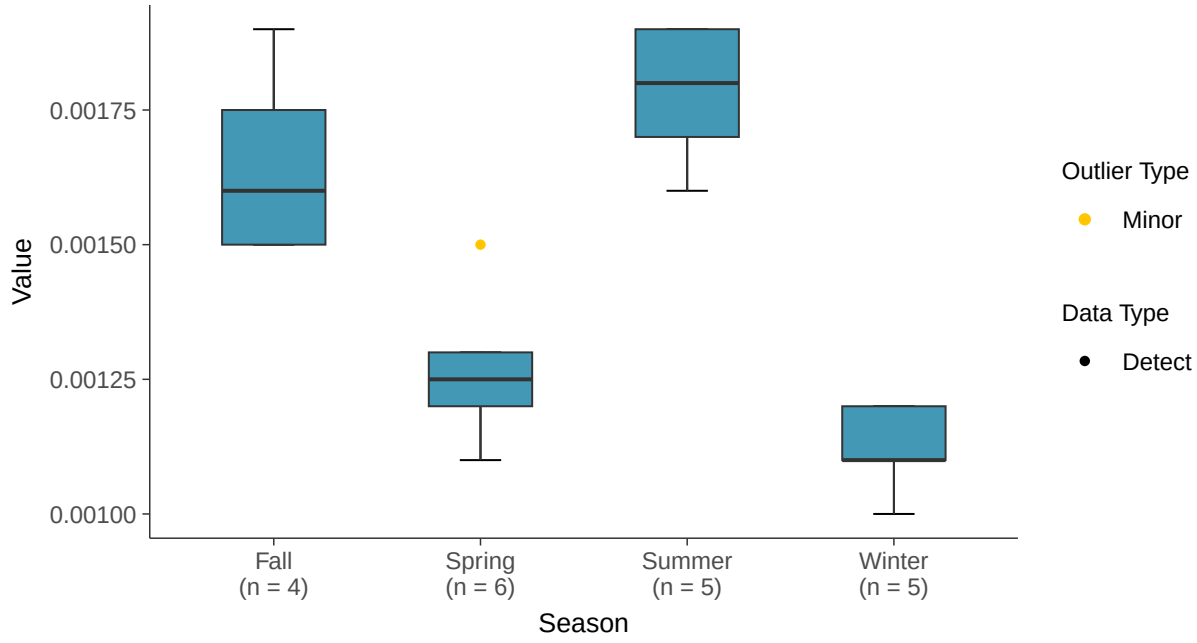
Boxplot

Arsenic, MW-20 (mg/L)



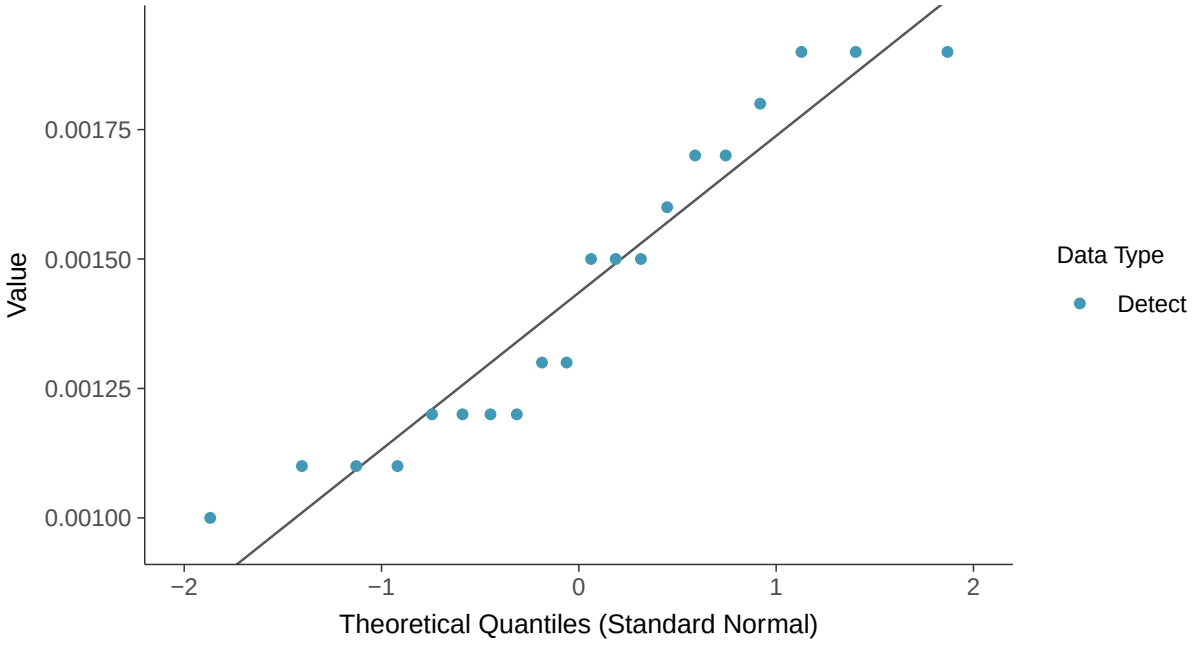
Boxplot by Season

Arsenic, MW-20 (mg/L)



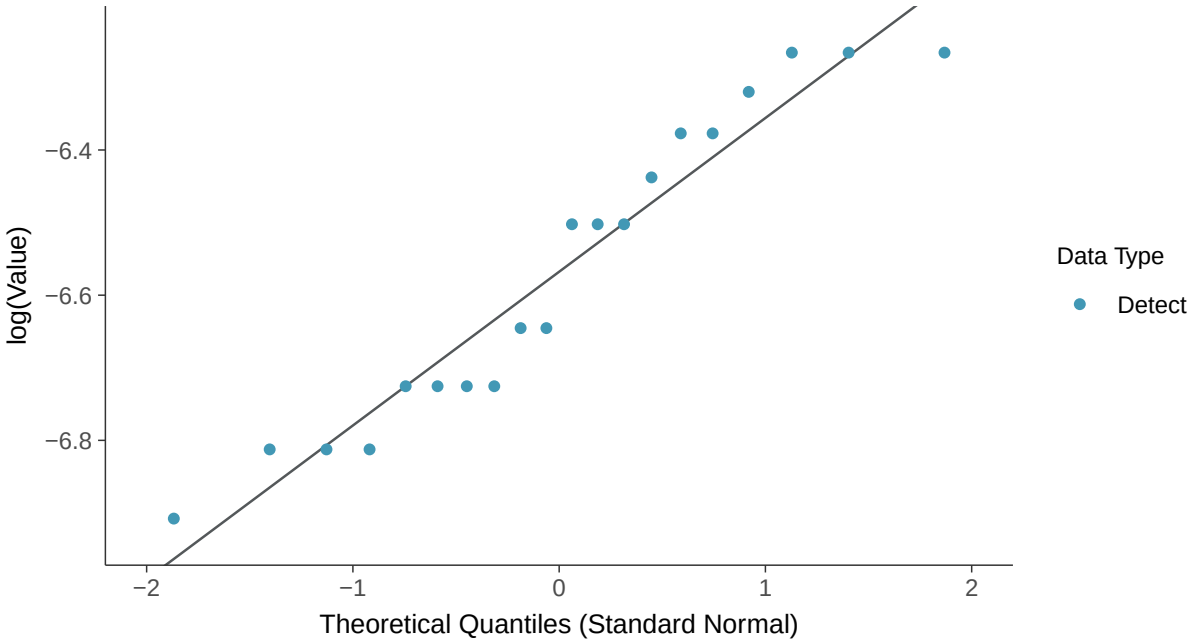
Normal Q-Q plot

Arsenic, MW-20 (mg/L)



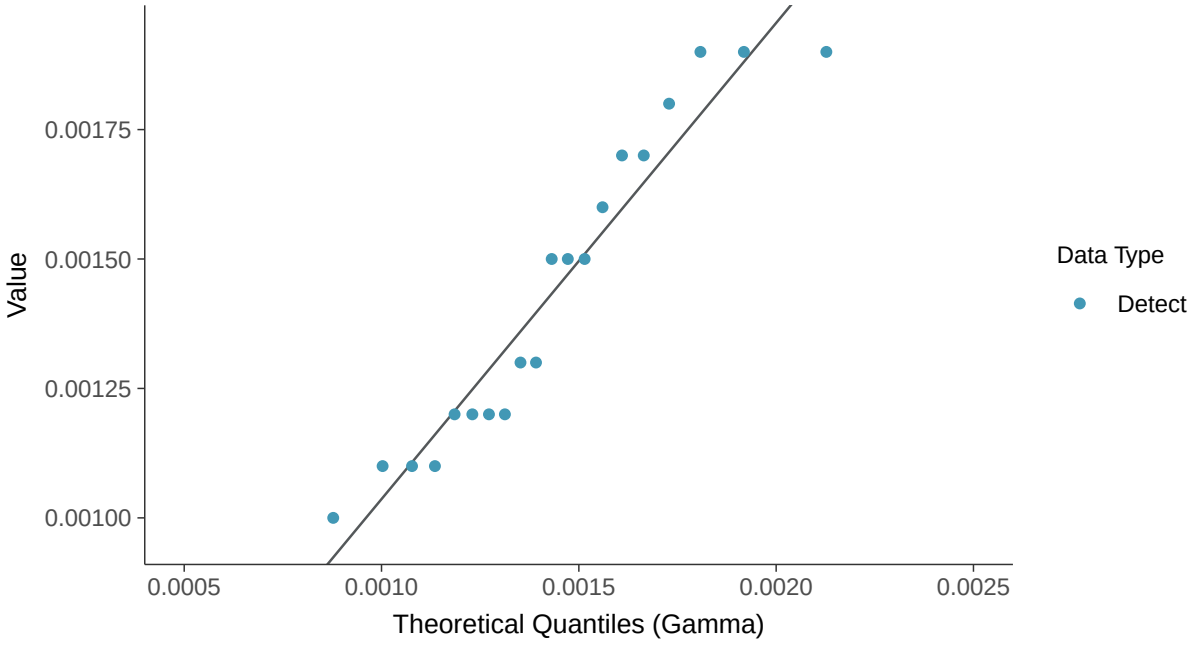
Lognormal Q-Q plot

Arsenic, MW-20 (mg/L)



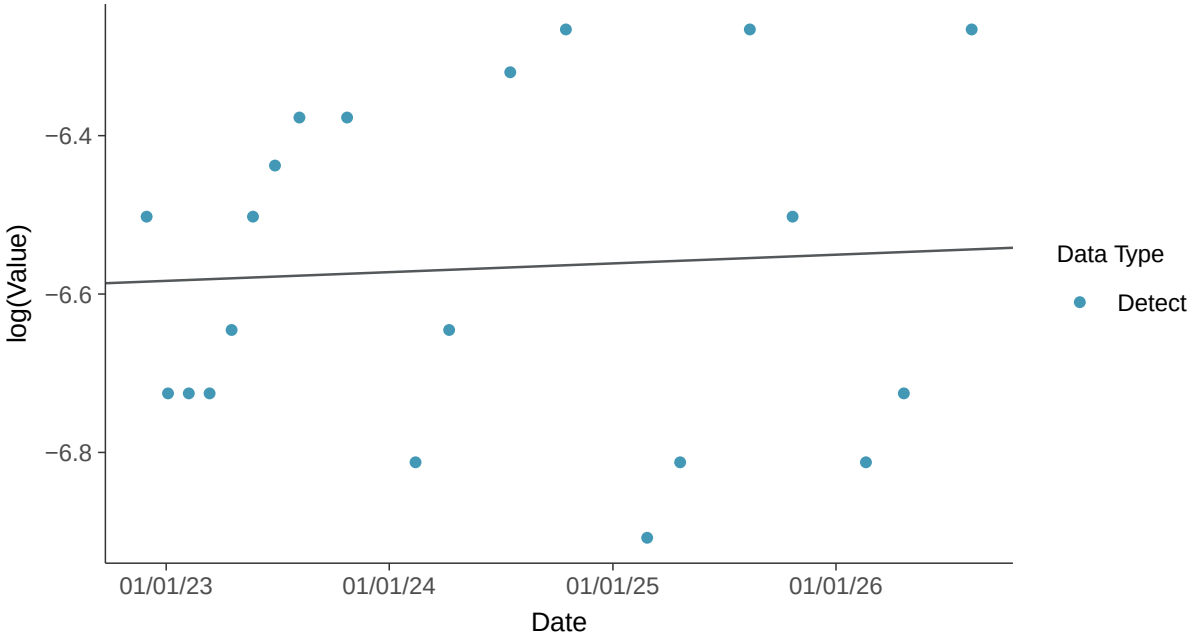
Gamma Q-Q plot

Arsenic, MW-20 (mg/L)



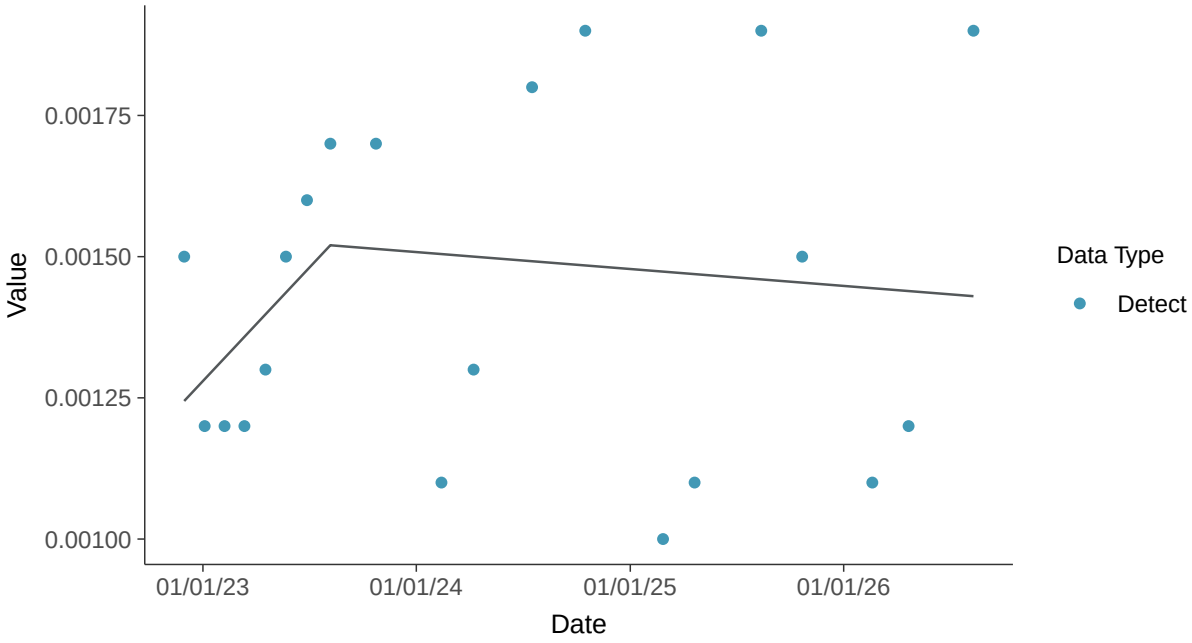
Trend Regression: Lognormal MLE

Arsenic, MW-20 (mg/L)



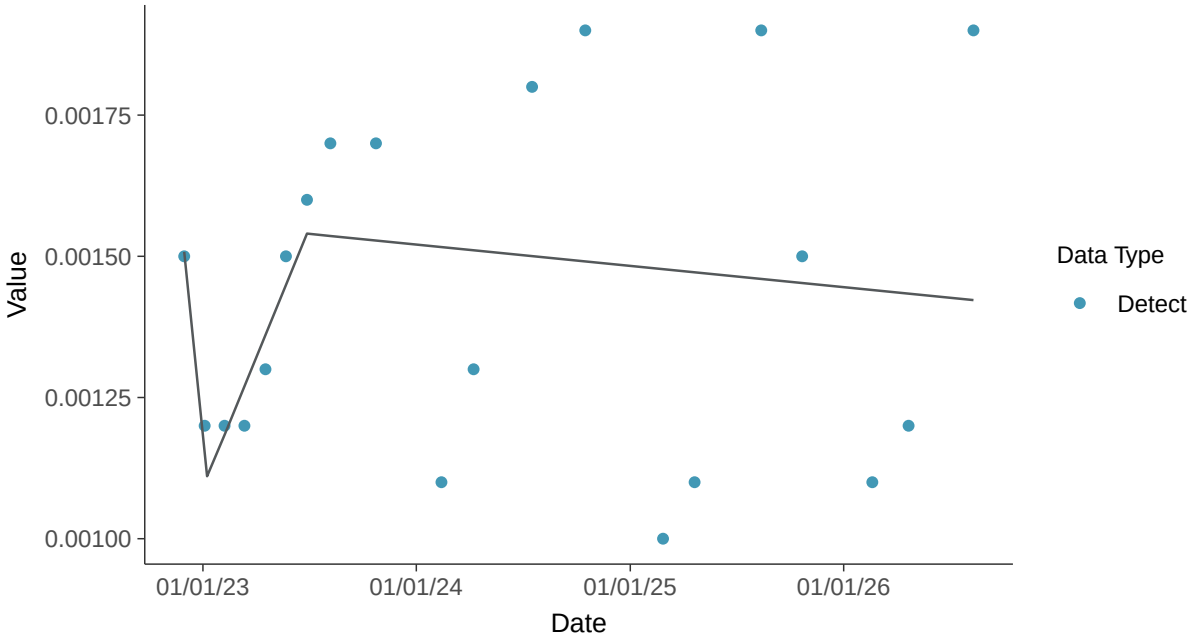
Trend Regression: Piecewise Linear-Linear

Arsenic, MW-20 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Arsenic, MW-20 (mg/L)

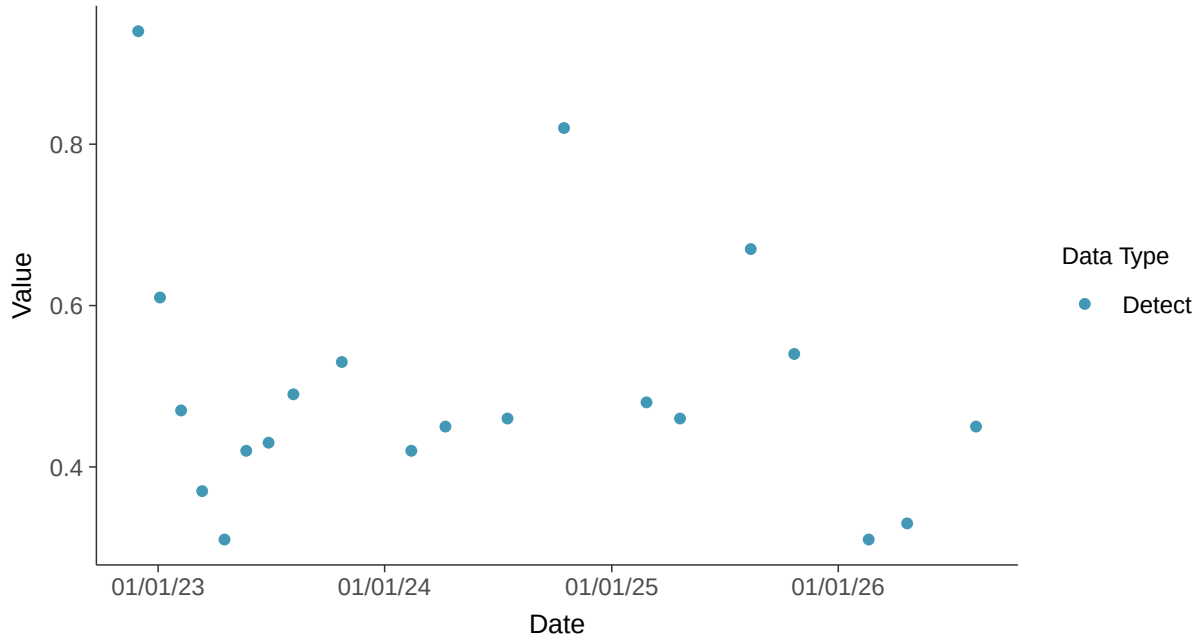


Appendix IV: Barium, MW-20

ID: 30_1_4_103

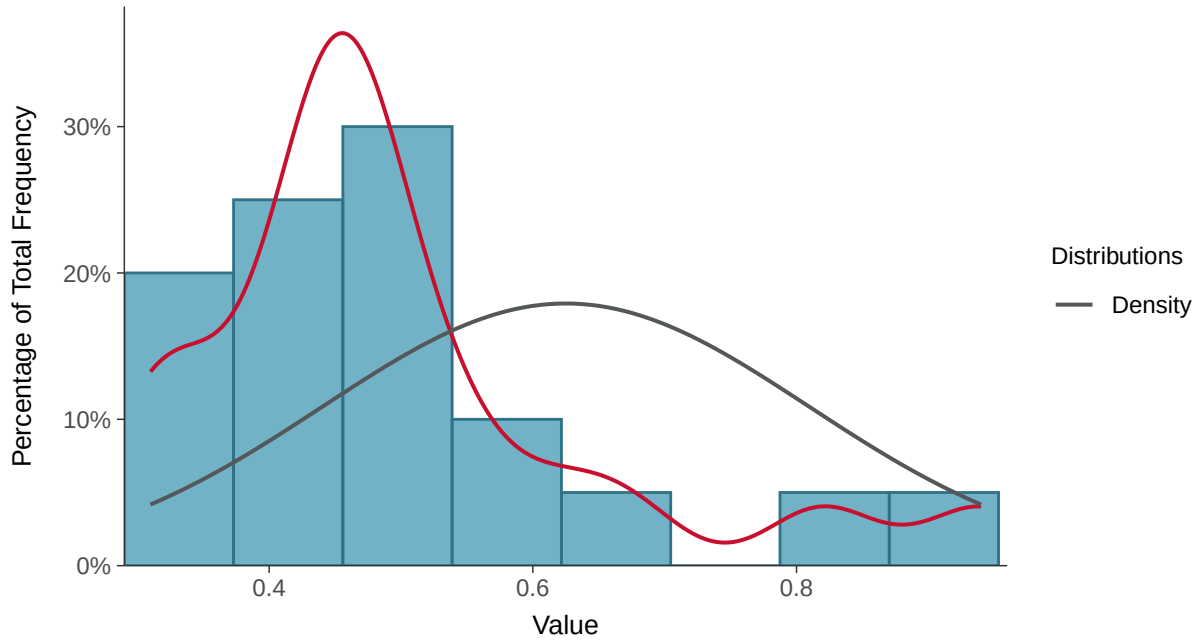
Scatter Plot

Barium, MW-20 (mg/L)



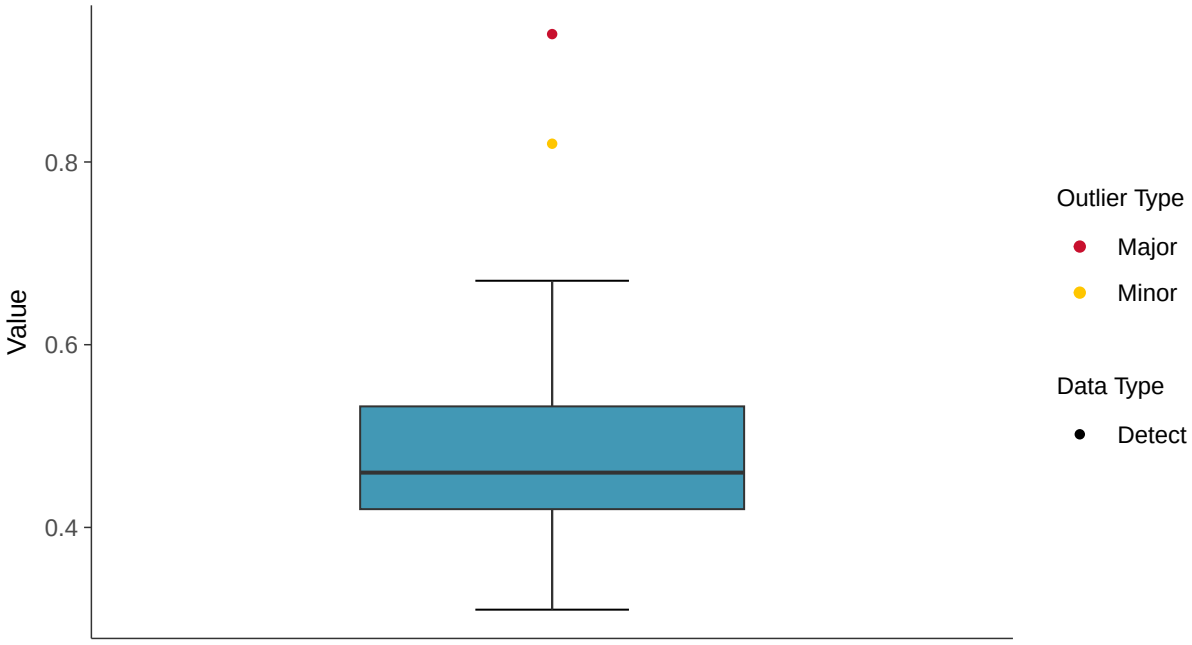
Histogram

Barium, MW-20 (mg/L)



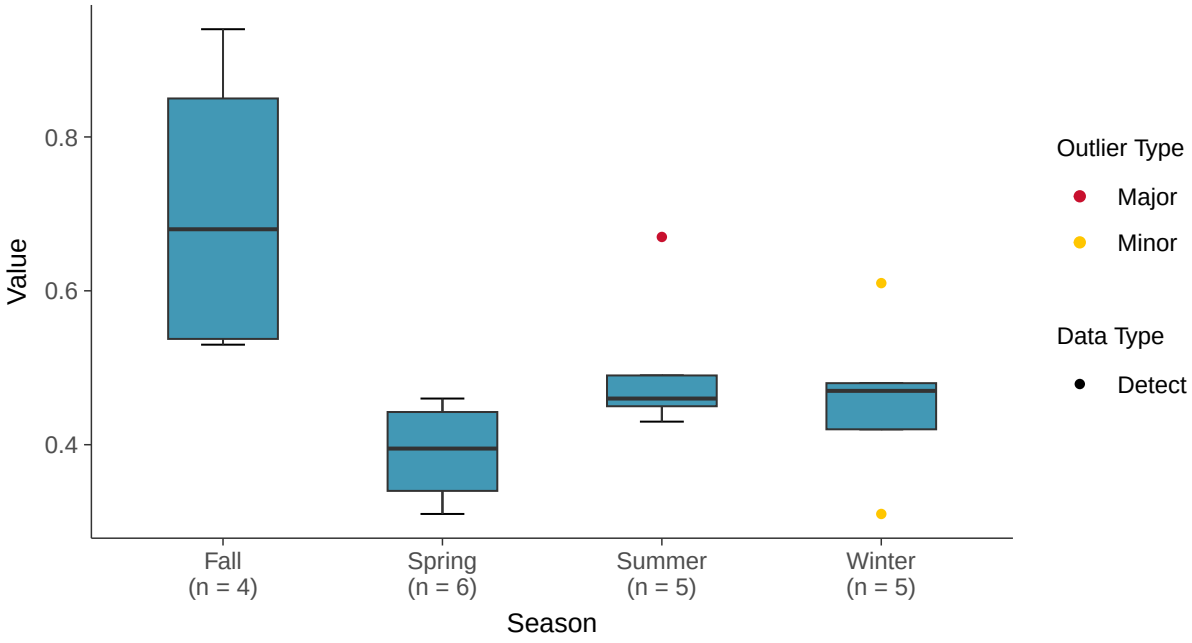
Boxplot

Barium, MW-20 (mg/L)



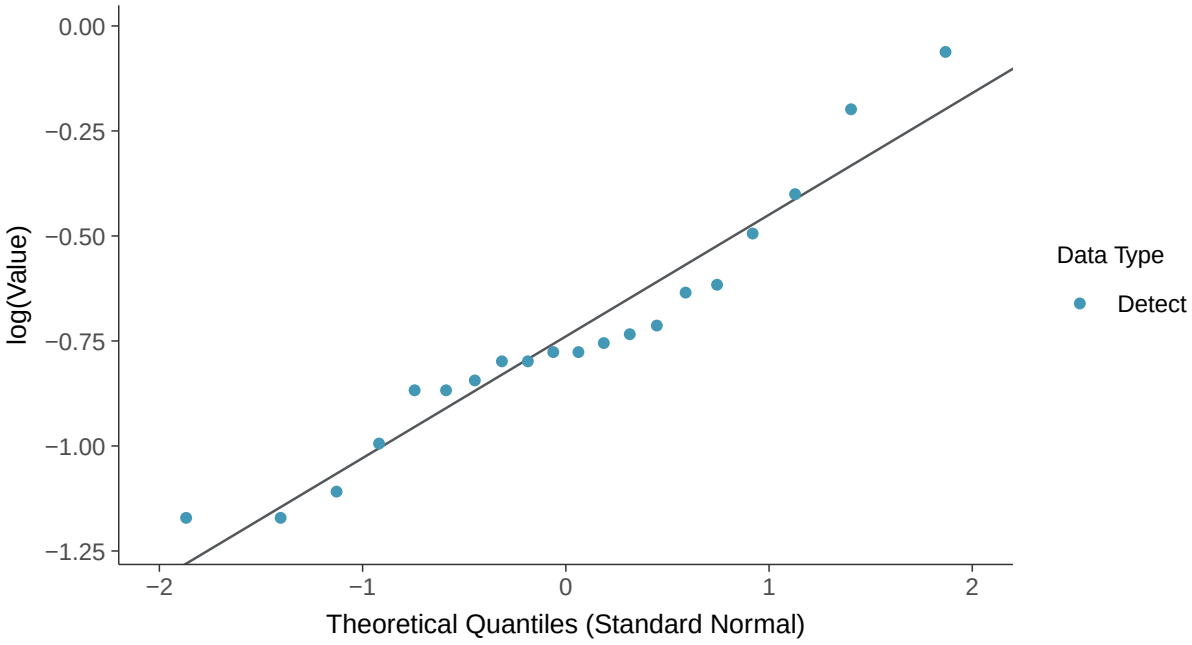
Boxplot by Season

Barium, MW-20 (mg/L)



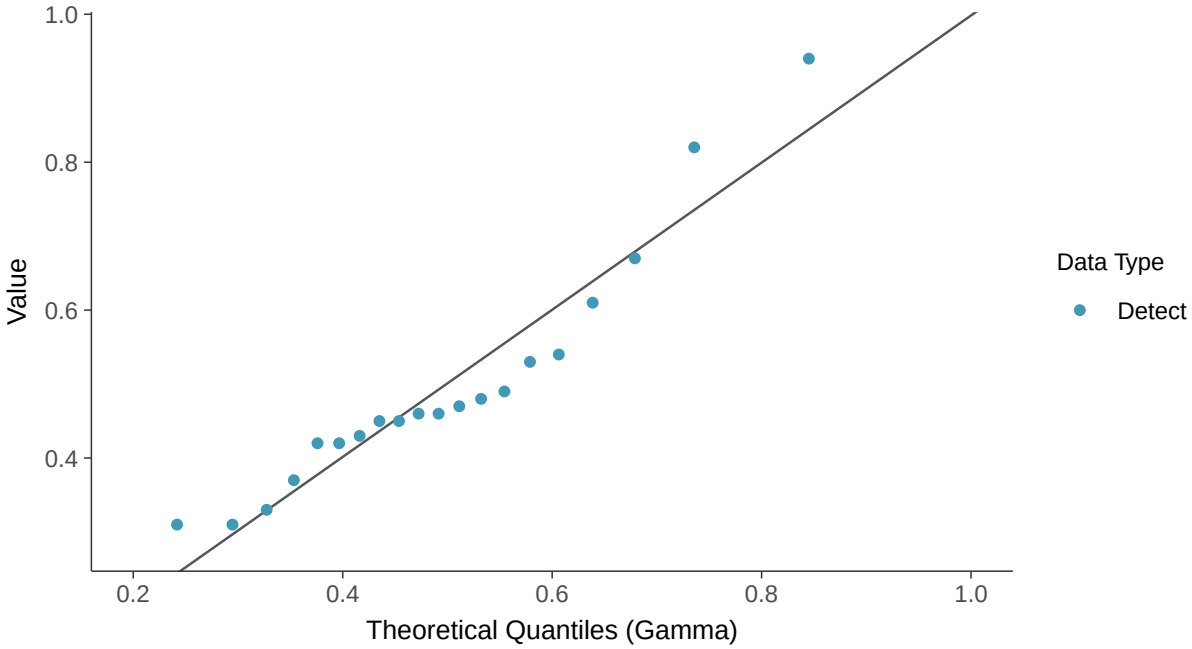
Lognormal Q-Q plot

Barium, MW-20 (mg/L)



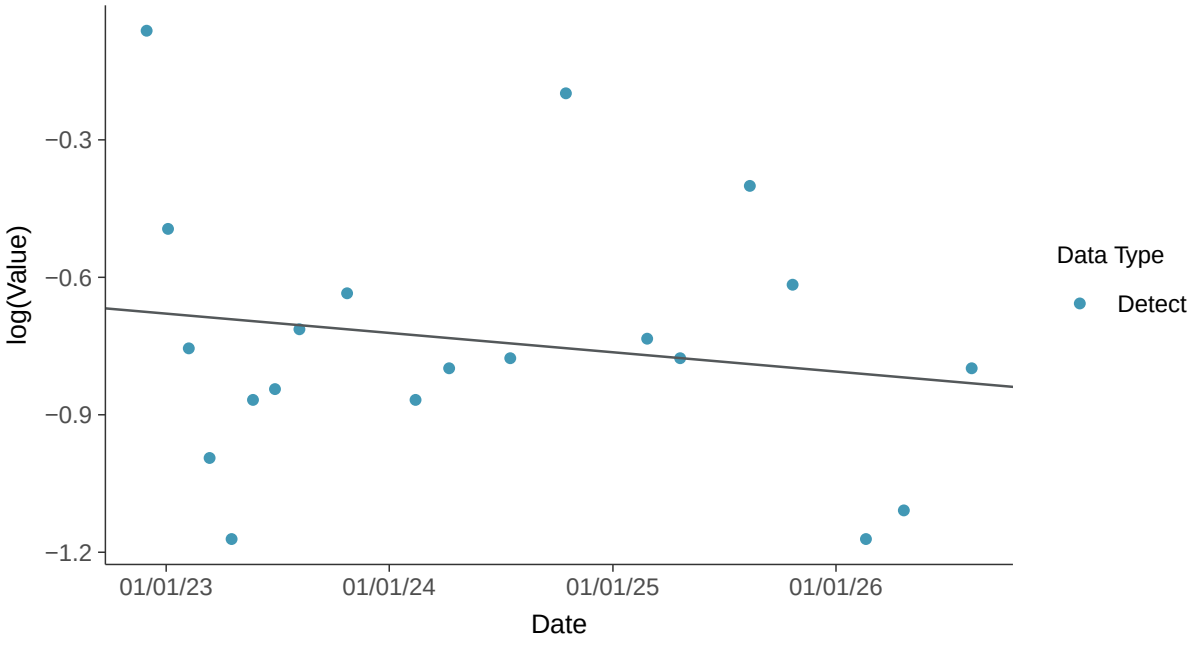
Gamma Q-Q plot

Barium, MW-20 (mg/L)



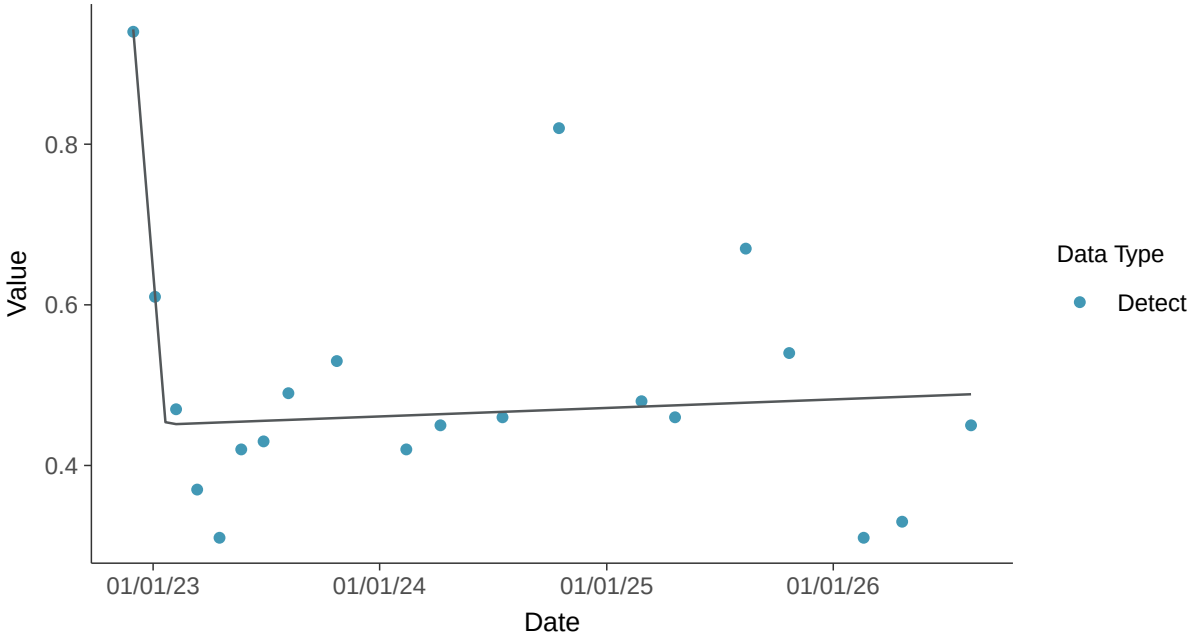
Trend Regression: Lognormal MLE

Barium, MW-20 (mg/L)



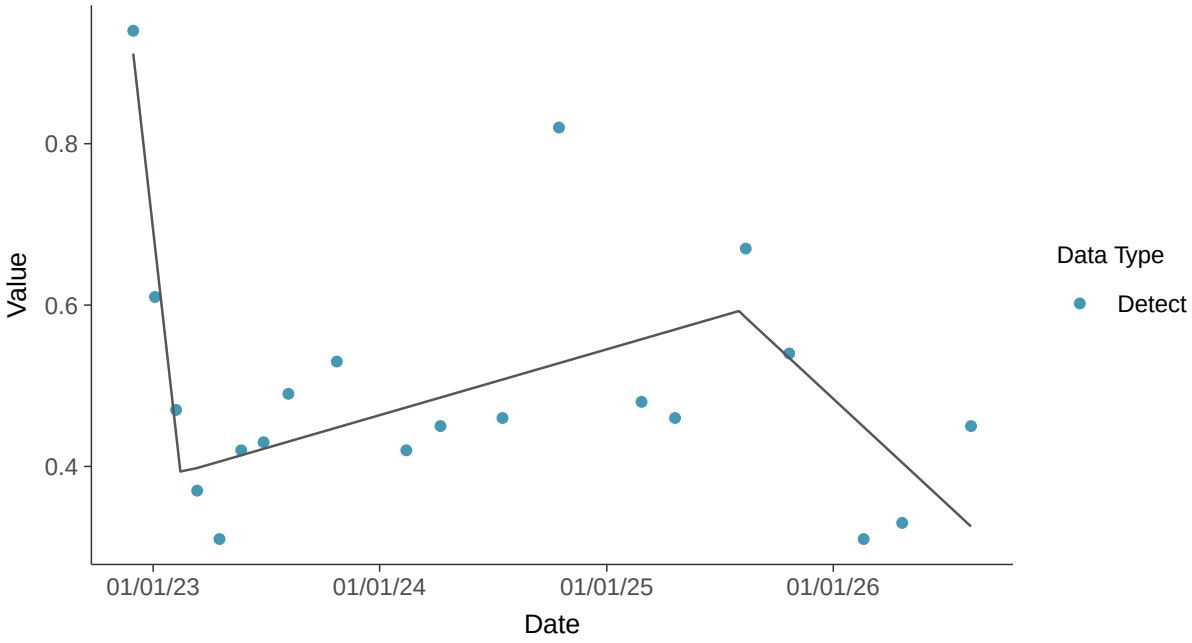
Trend Regression: Piecewise Linear-Linear

Barium, MW-20 (mg/L)



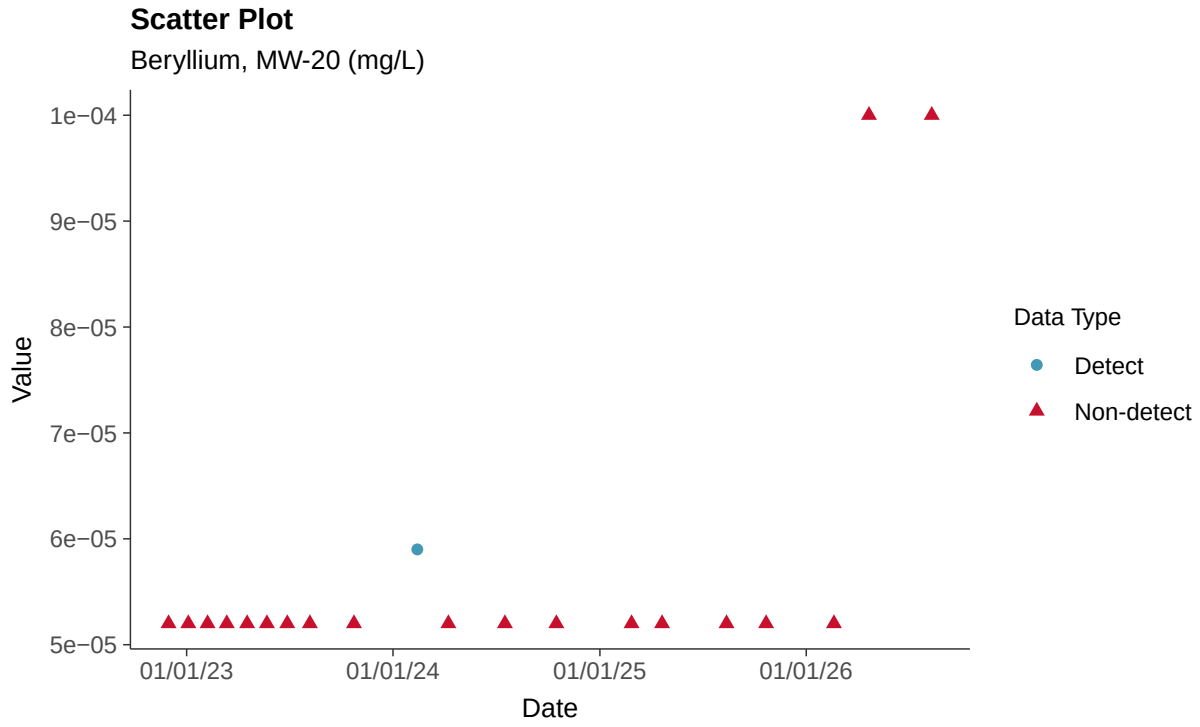
Trend Regression: Piecewise Linear-Linear-Linear

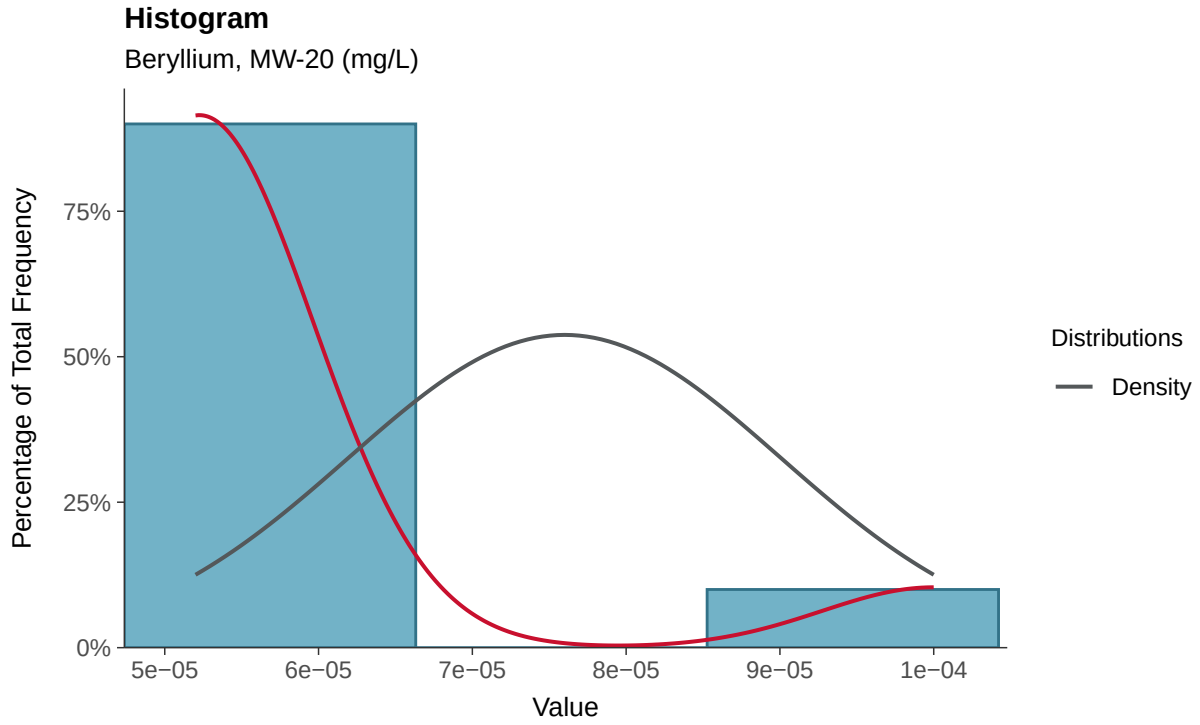
Barium, MW-20 (mg/L)



Appendix IV: Beryllium, MW-20

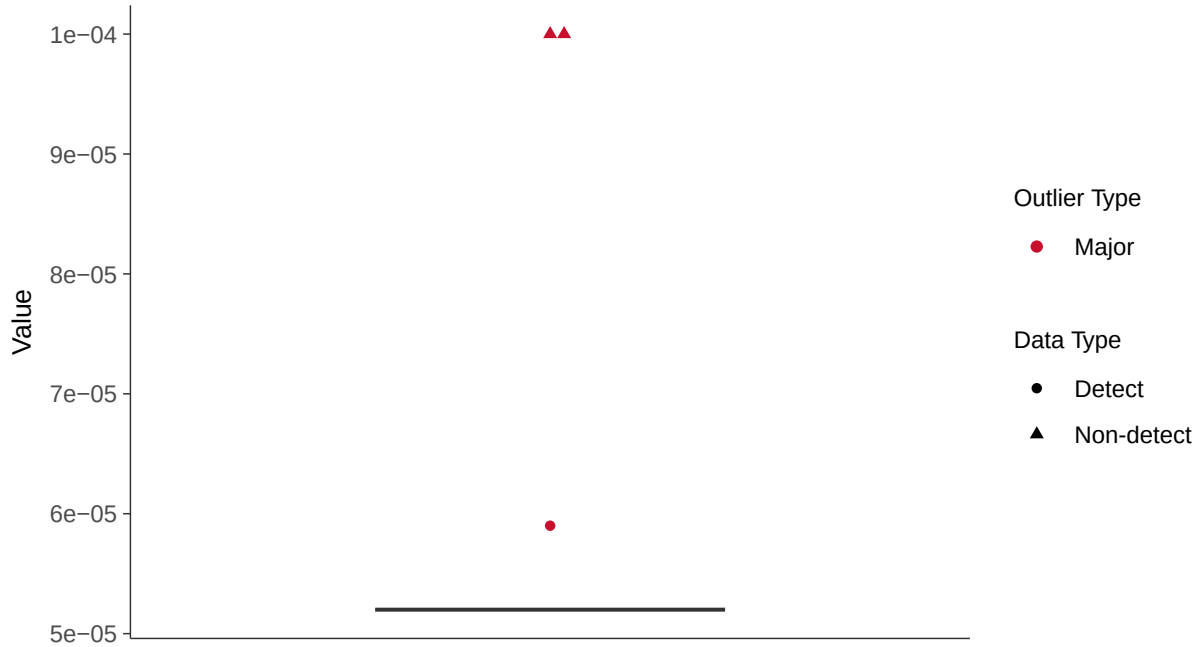
ID: 30_1_4_104





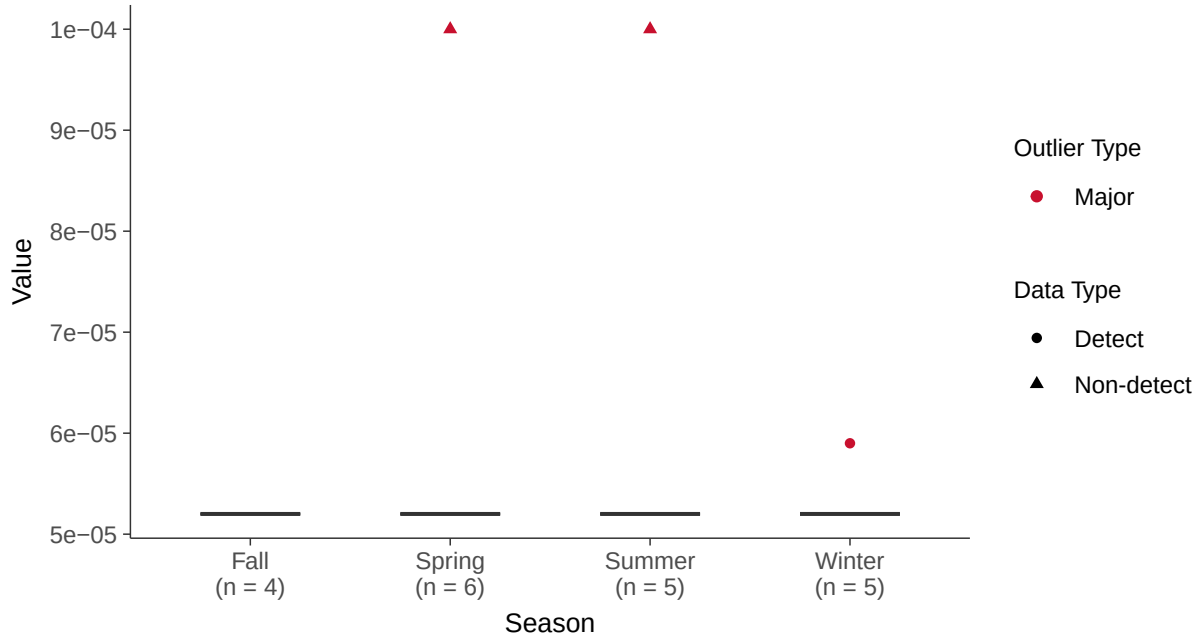
Boxplot

Beryllium, MW-20 (mg/L)



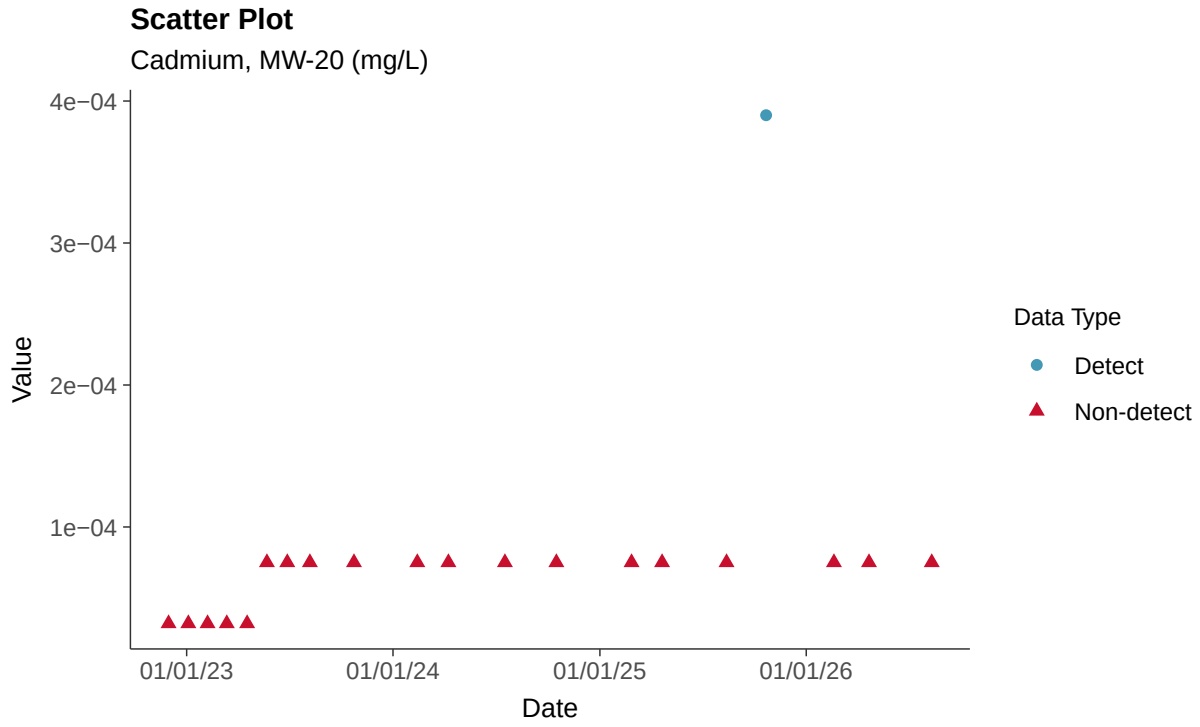
Boxplot by Season

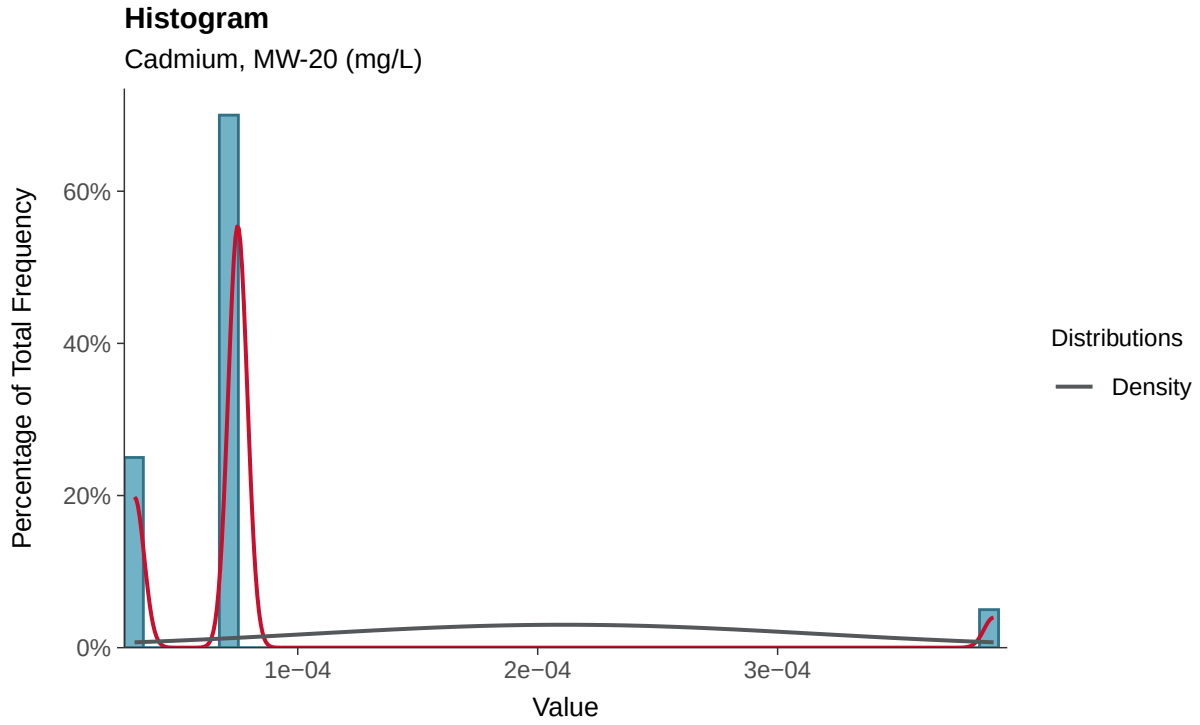
Beryllium, MW-20 (mg/L)



Appendix IV: Cadmium, MW-20

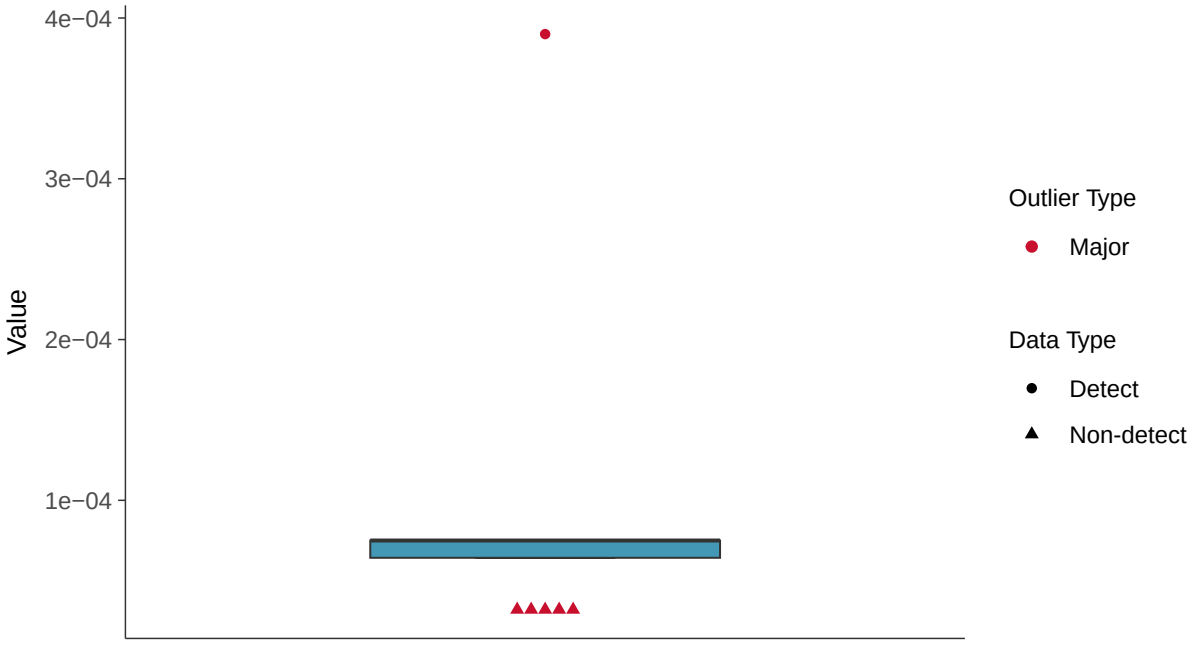
ID: 30_1_4_106





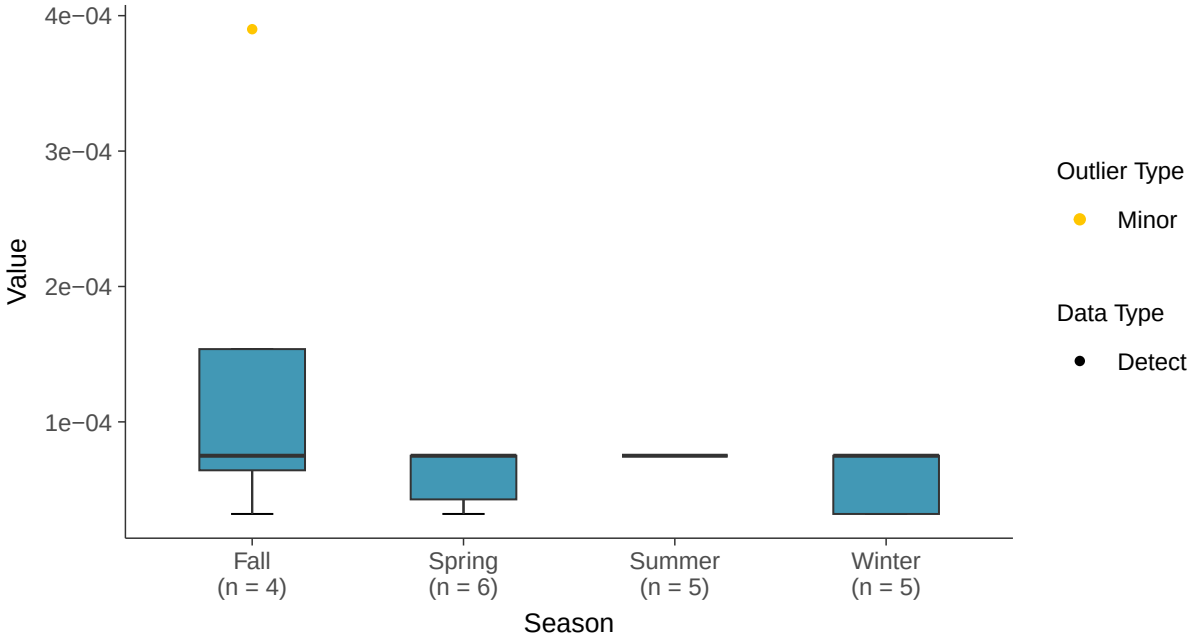
Boxplot

Cadmium, MW-20 (mg/L)



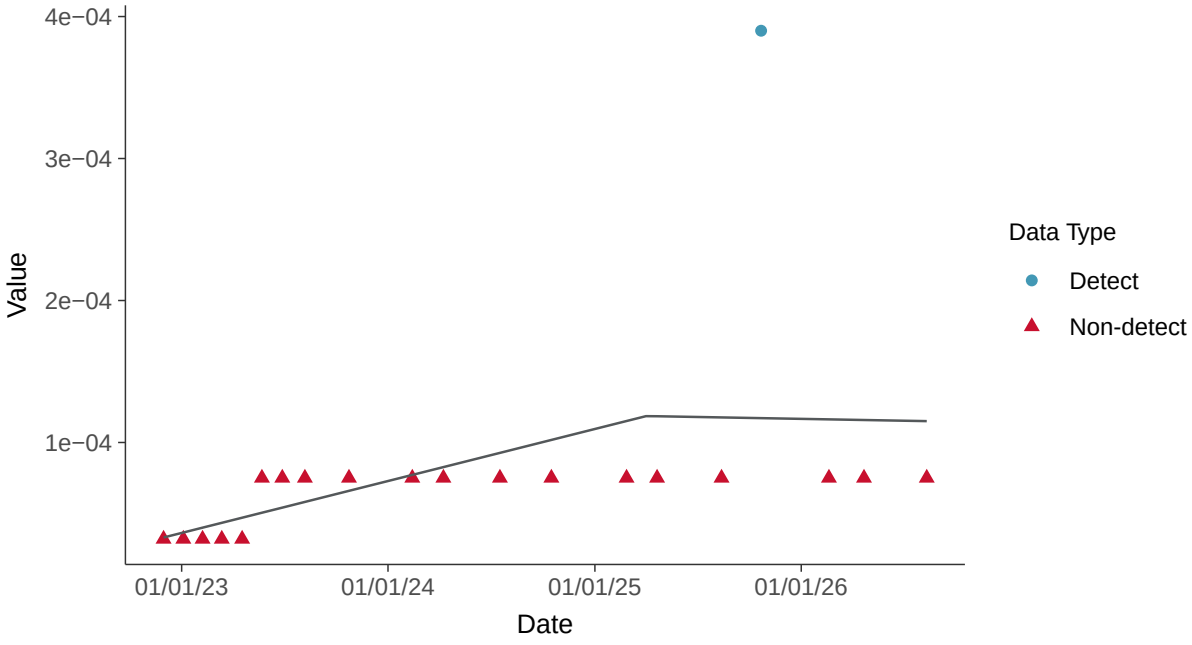
Boxplot by Season

Cadmium, MW-20 (mg/L)



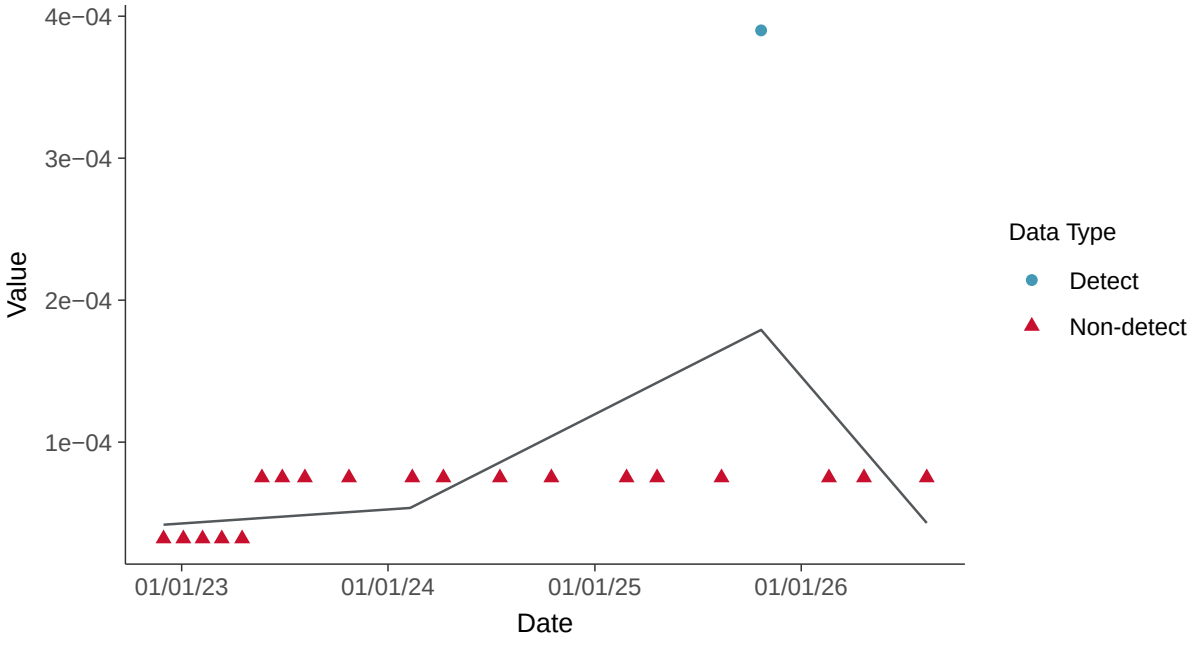
Trend Regression: Piecewise Linear-Linear

Cadmium, MW-20 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Cadmium, MW-20 (mg/L)

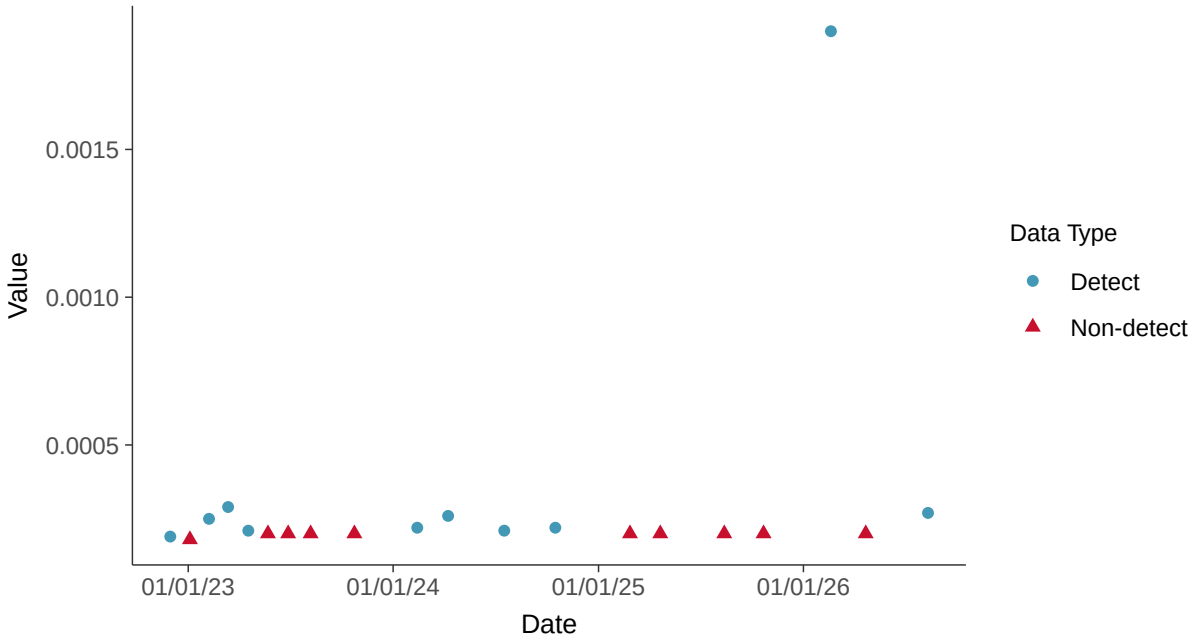


Appendix IV: Chromium, Total, MW-20

ID: 30_1_4_109

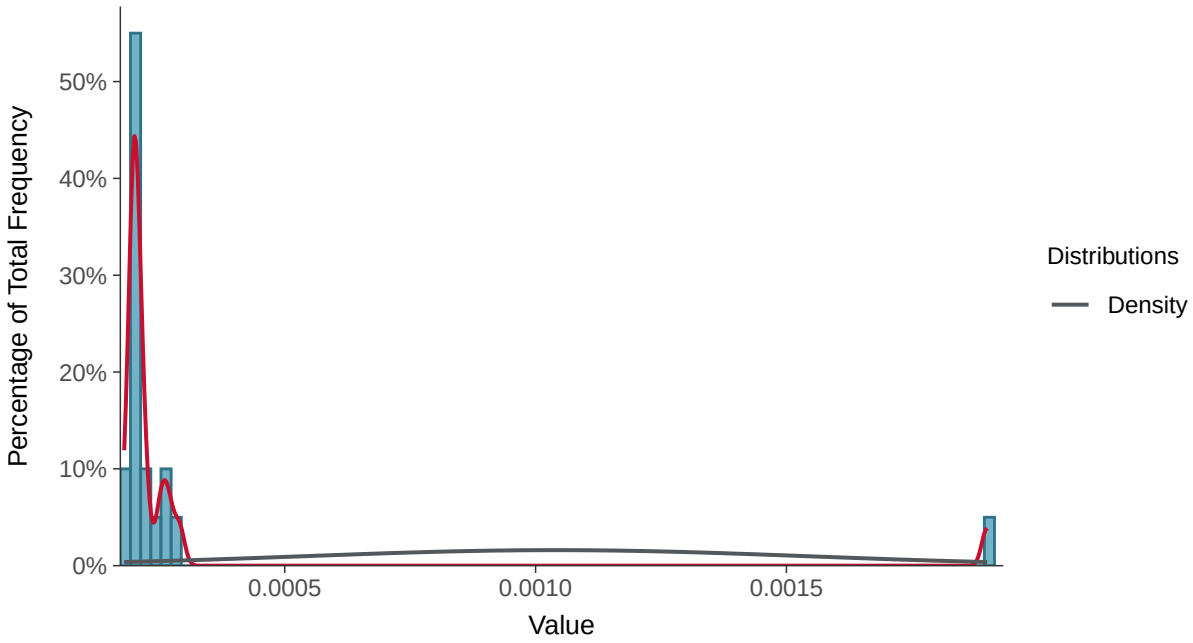
Scatter Plot

Chromium, Total, MW-20 (mg/L)



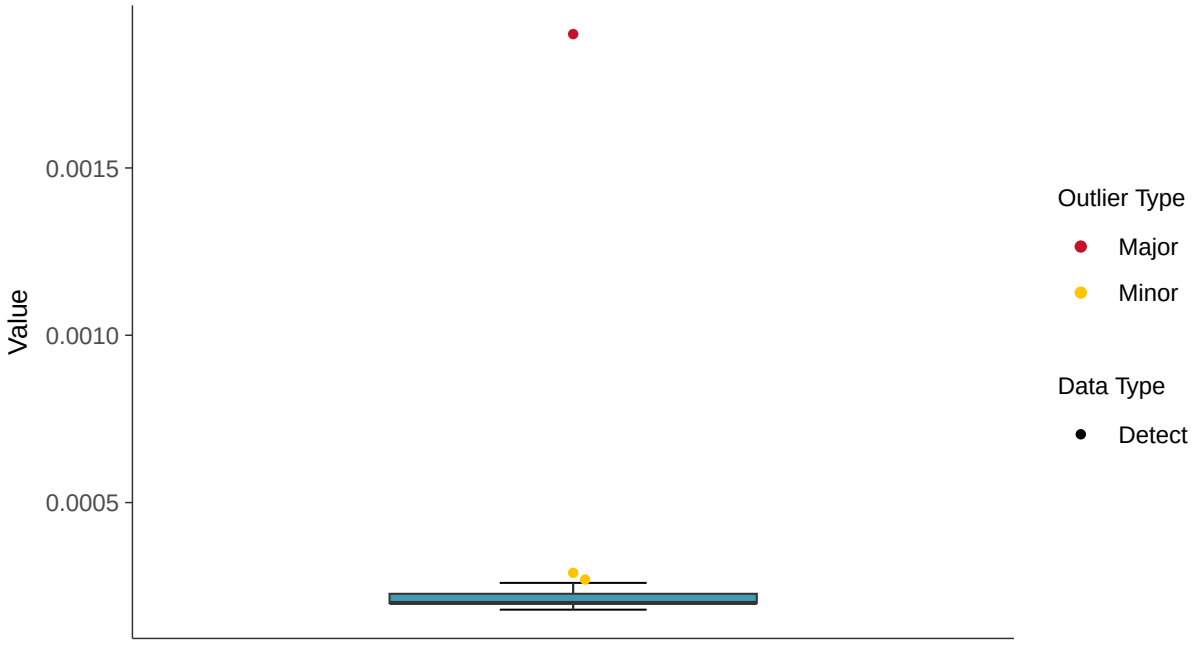
Histogram

Chromium, Total, MW-20 (mg/L)



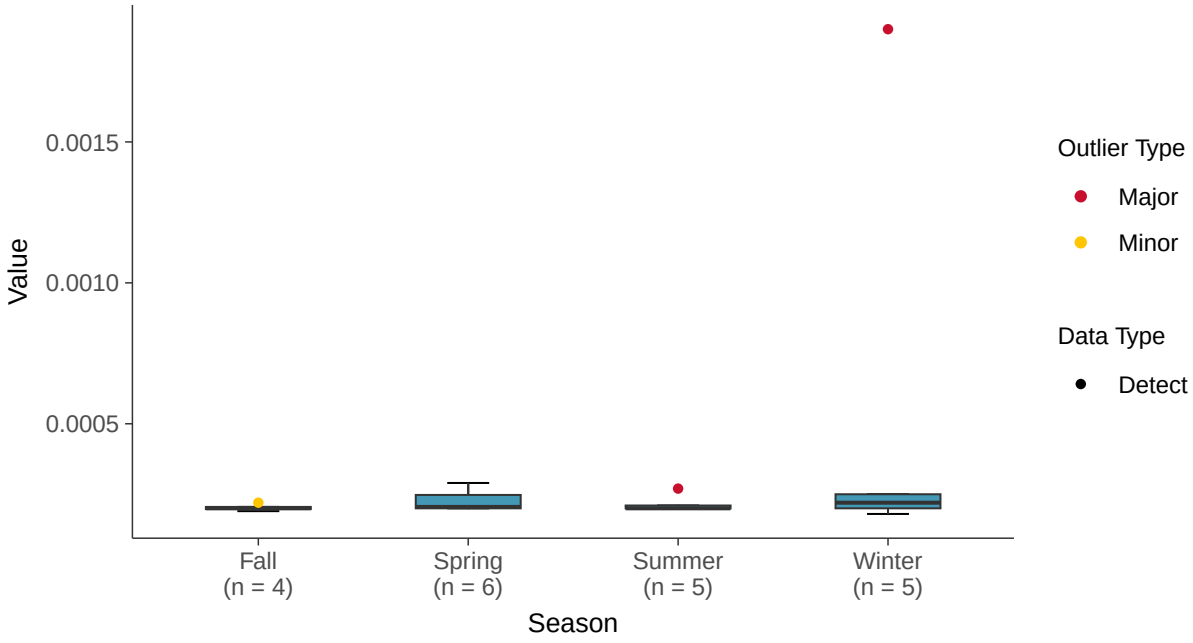
Boxplot

Chromium, Total, MW-20 (mg/L)



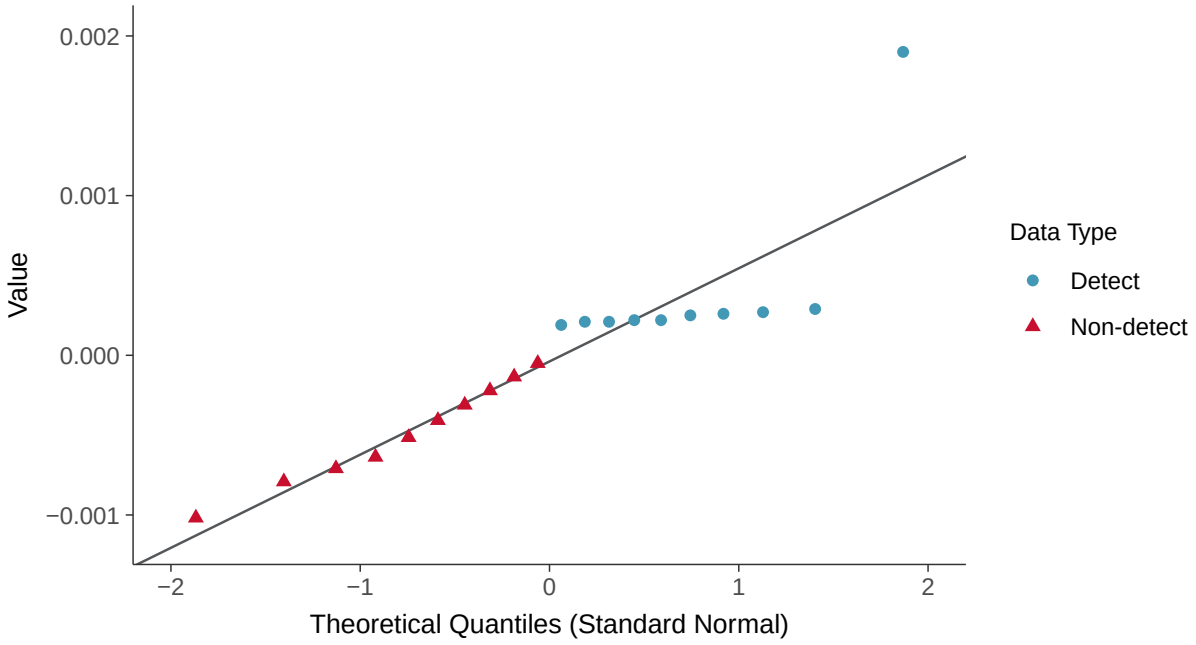
Boxplot by Season

Chromium, Total, MW-20 (mg/L)



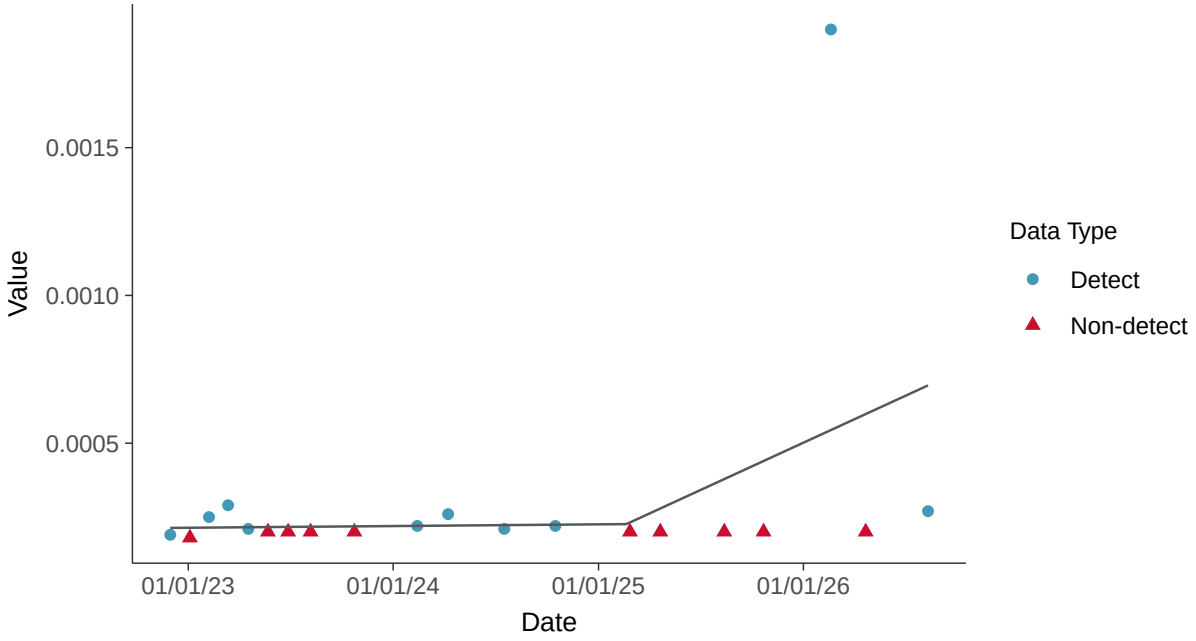
Normal Q-Q plot using ROS Imputed Estimates

Chromium, Total, MW-20 (mg/L)



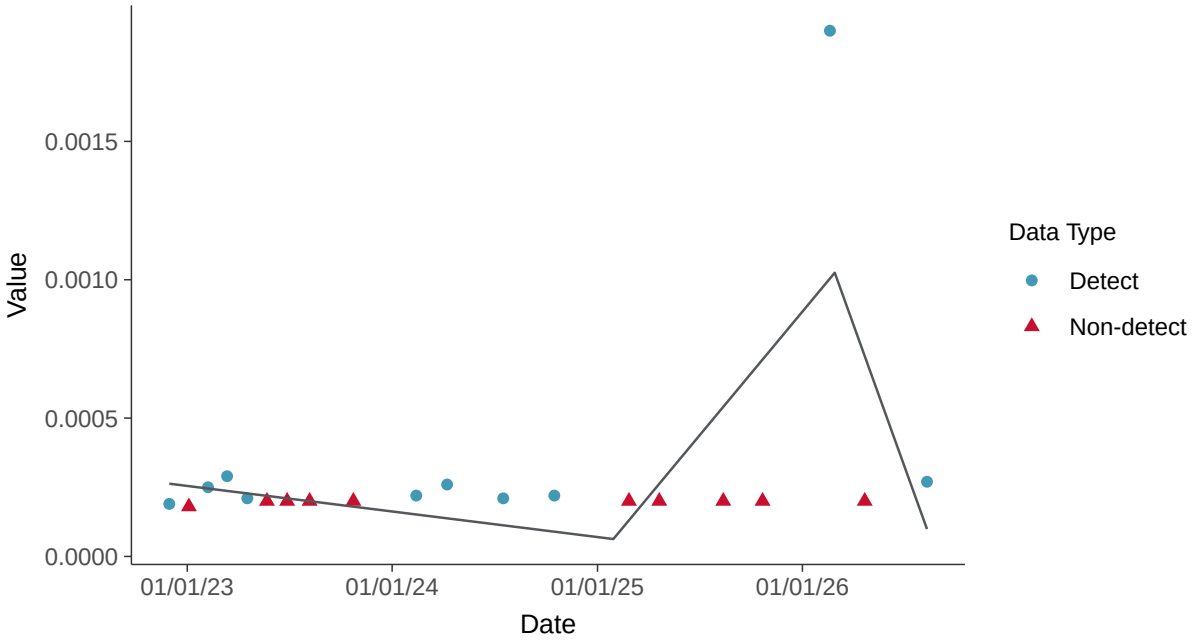
Trend Regression: Piecewise Linear-Linear

Chromium, Total, MW-20 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Chromium, Total, MW-20 (mg/L)

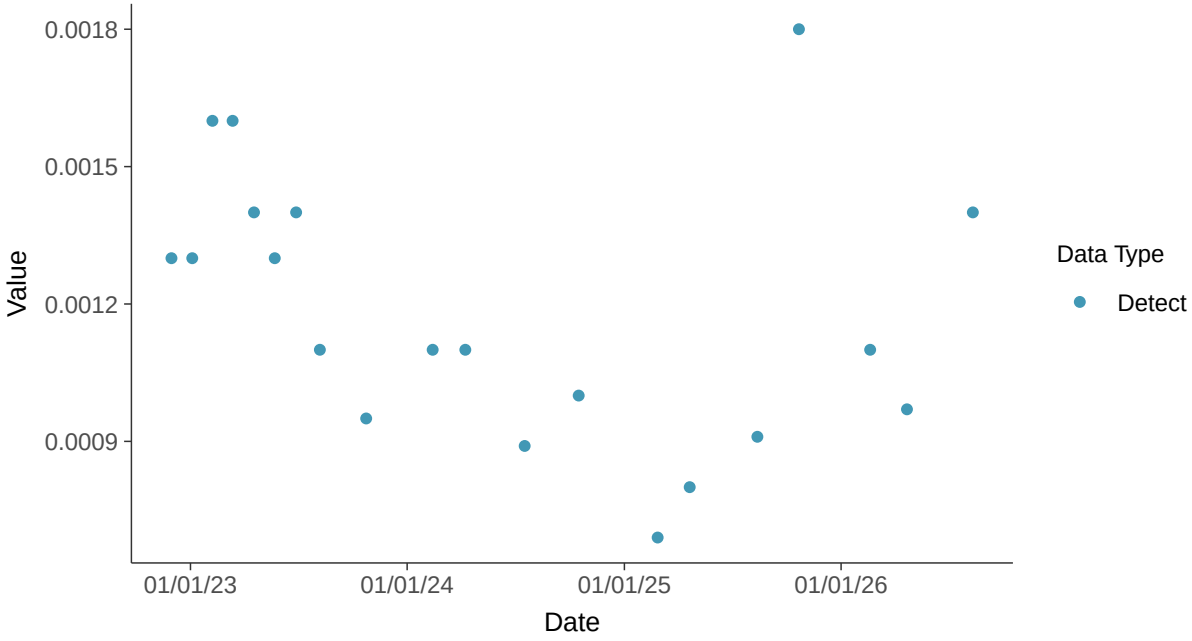


Appendix IV: Cobalt, MW-20

ID: 30_1_4_110

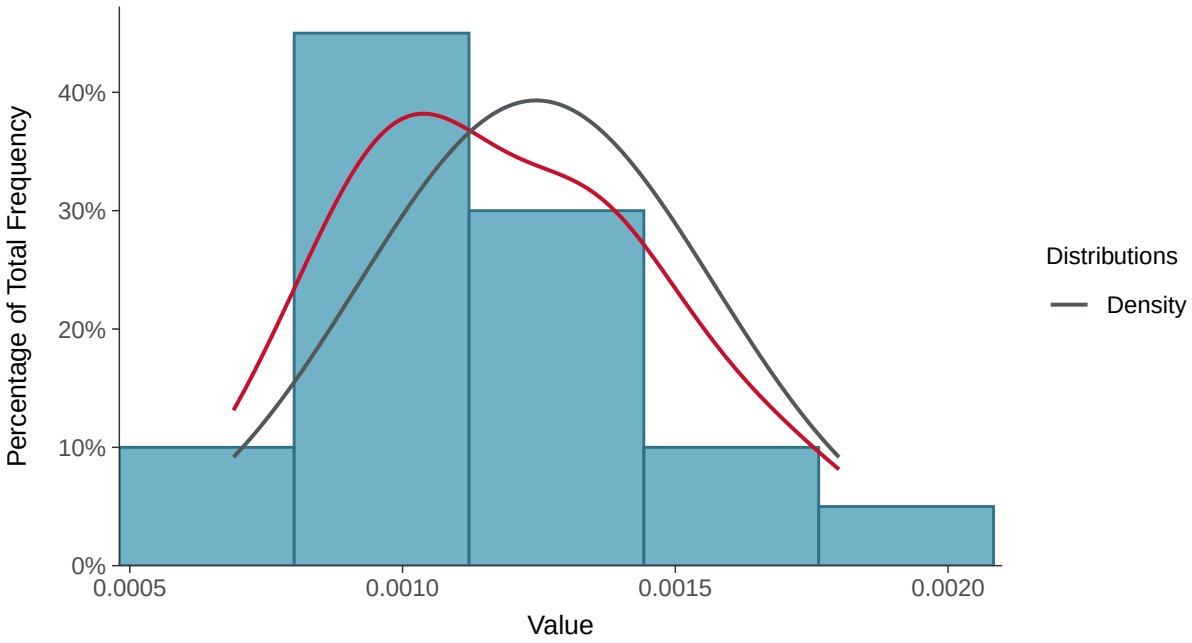
Scatter Plot

Cobalt, MW-20 (mg/L)



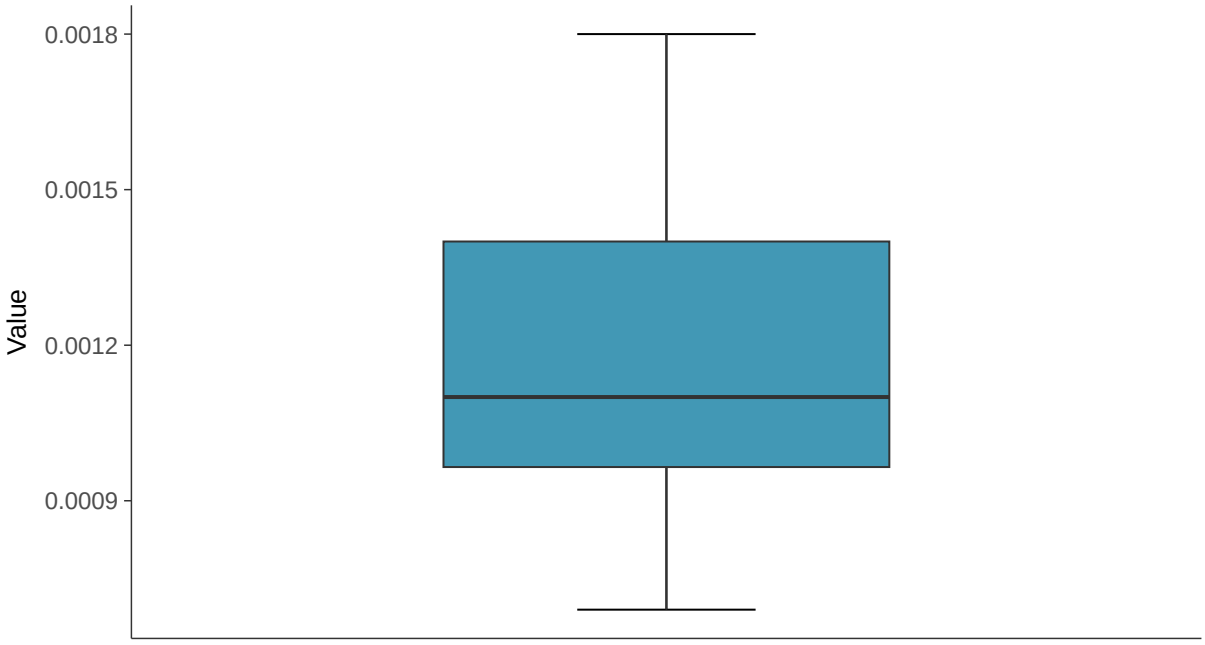
Histogram

Cobalt, MW-20 (mg/L)



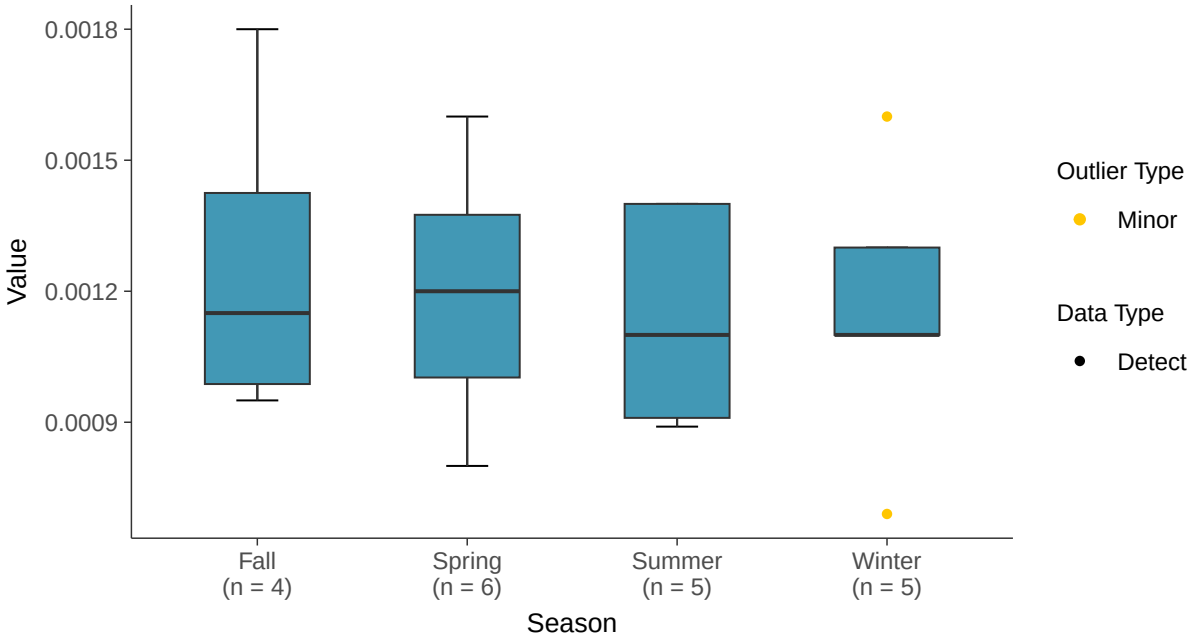
Boxplot

Cobalt, MW-20 (mg/L)



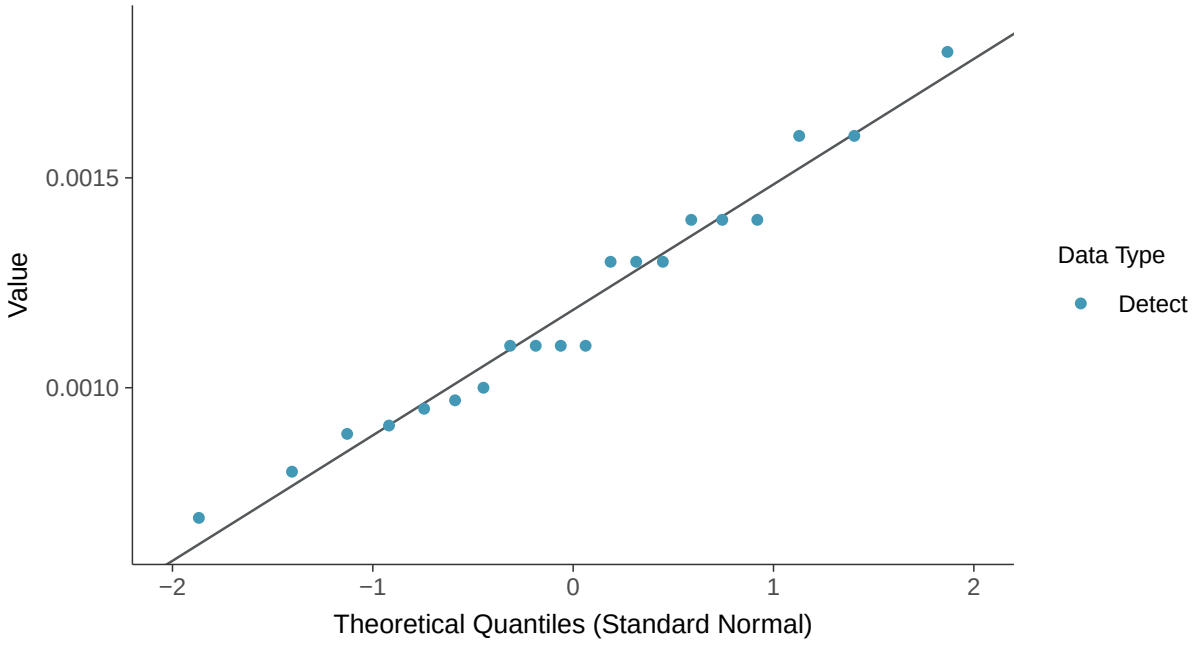
Boxplot by Season

Cobalt, MW-20 (mg/L)



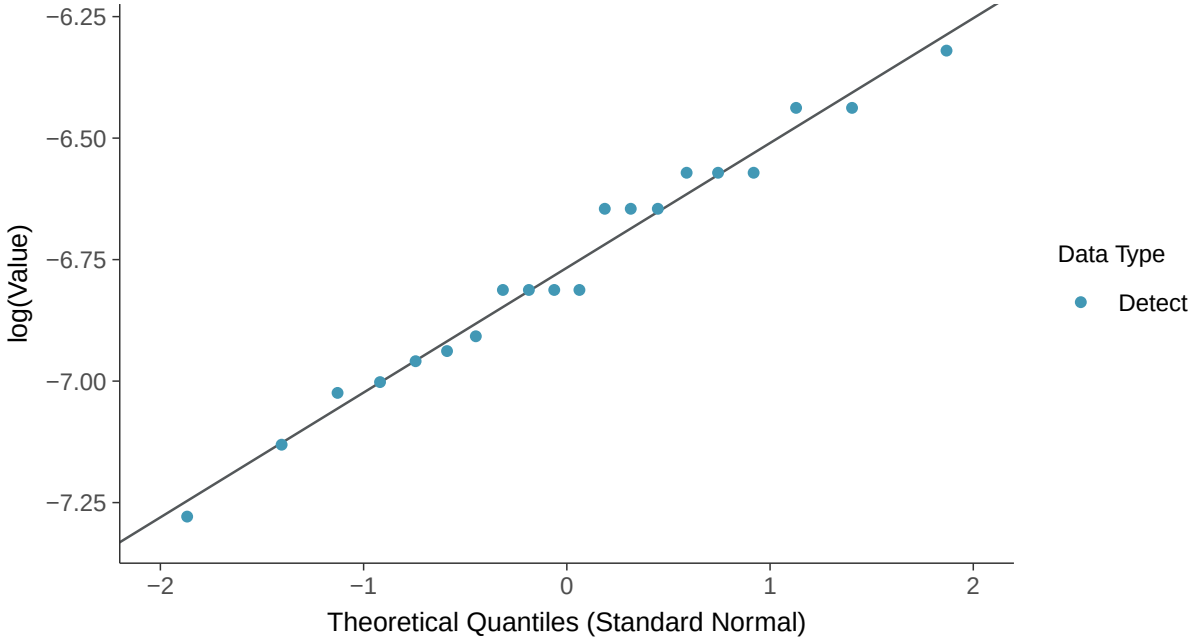
Normal Q-Q plot

Cobalt, MW-20 (mg/L)



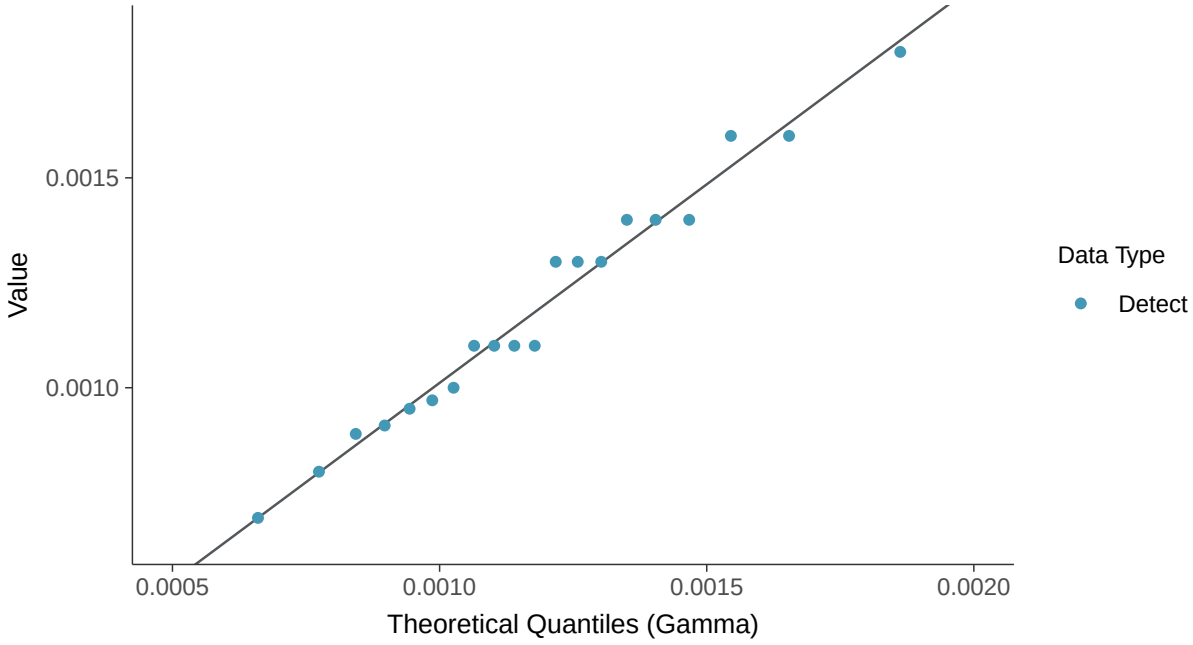
Lognormal Q-Q plot

Cobalt, MW-20 (mg/L)



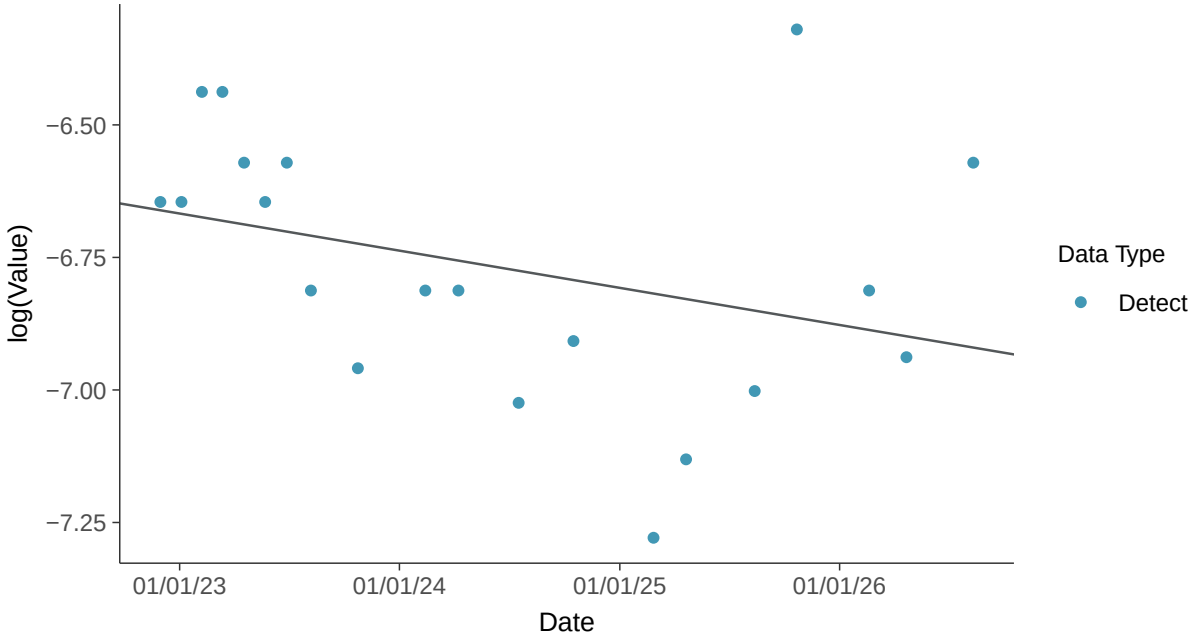
Gamma Q-Q plot

Cobalt, MW-20 (mg/L)



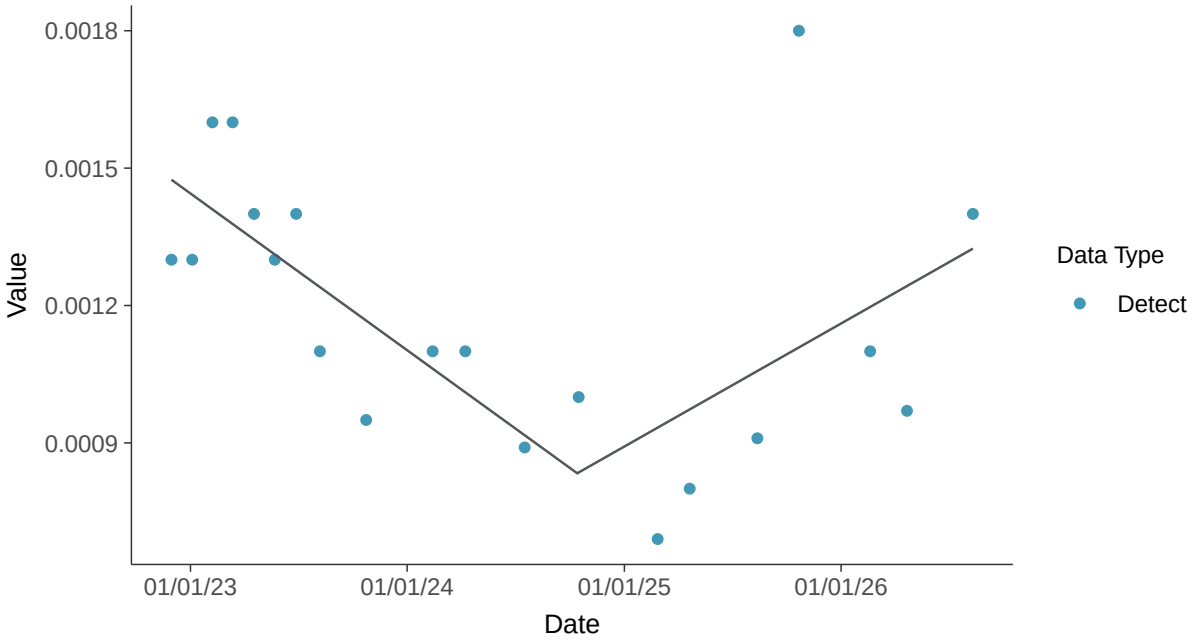
Trend Regression: Lognormal MLE

Cobalt, MW-20 (mg/L)



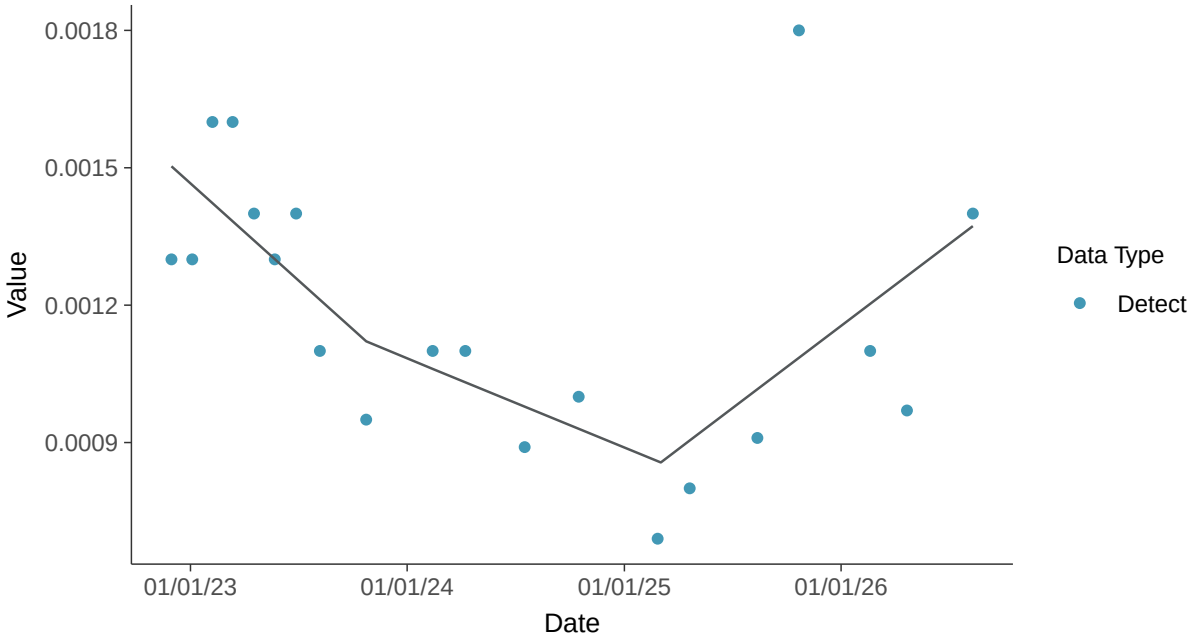
Trend Regression: Piecewise Linear-Linear

Cobalt, MW-20 (mg/L)



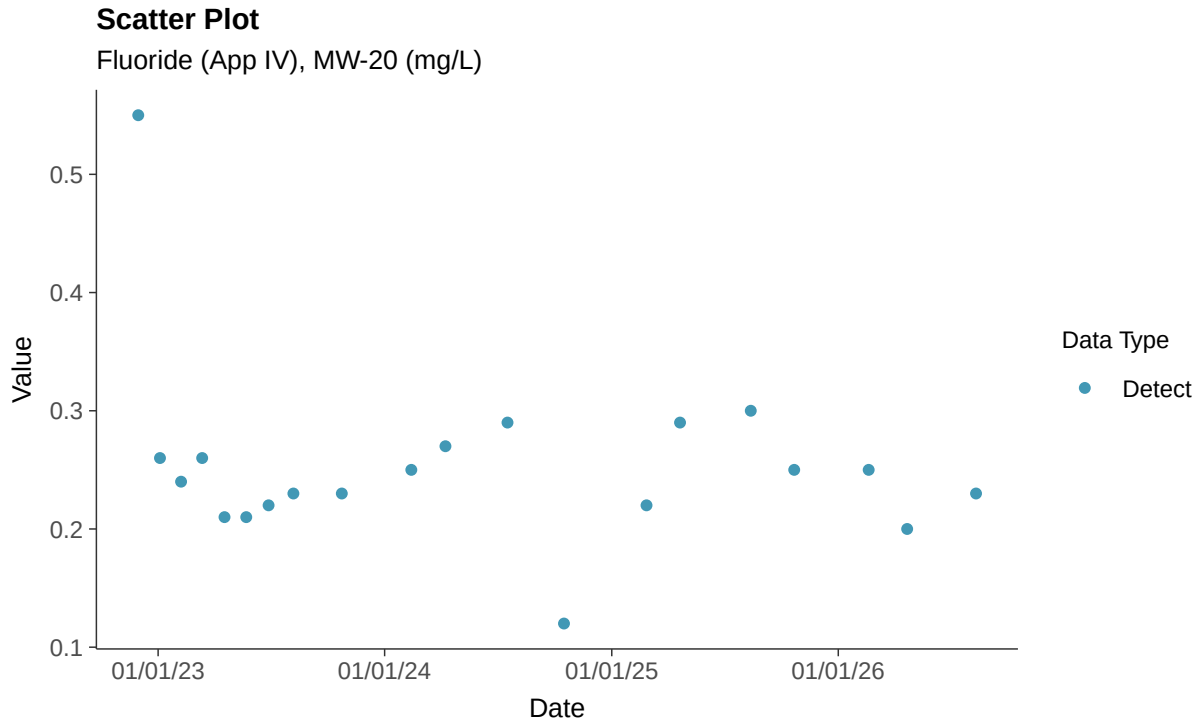
Trend Regression: Piecewise Linear-Linear-Linear

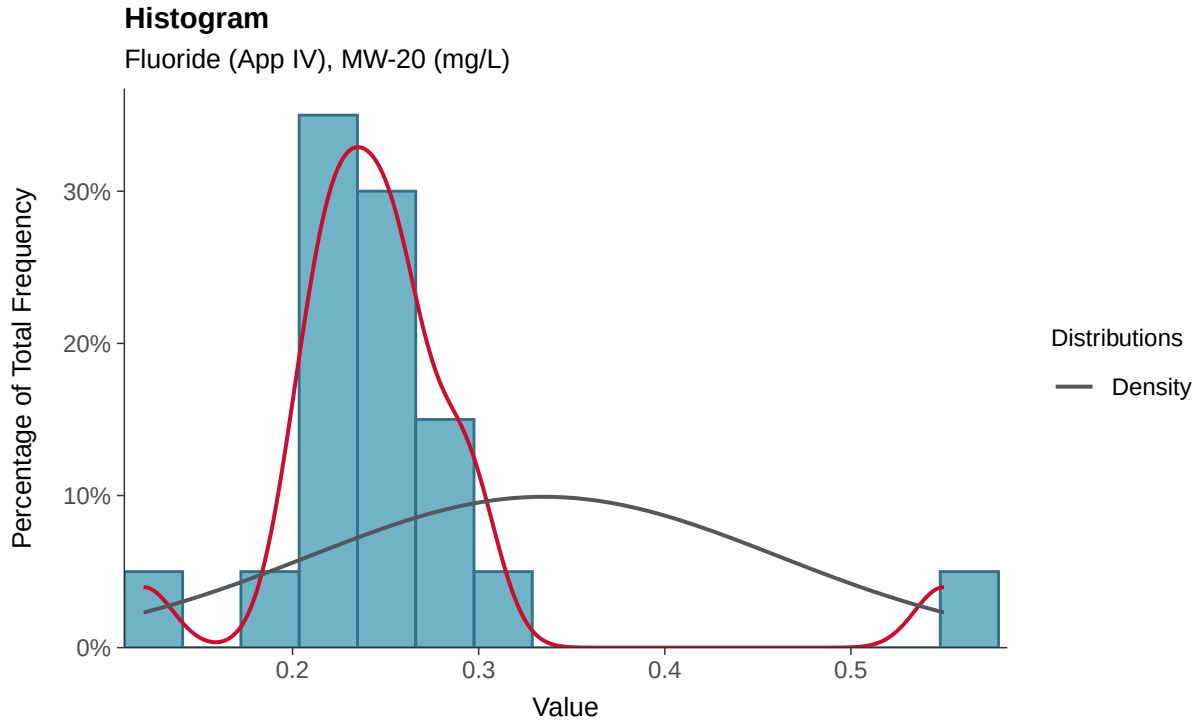
Cobalt, MW-20 (mg/L)



Appendix IV: Fluoride (App IV), MW-20

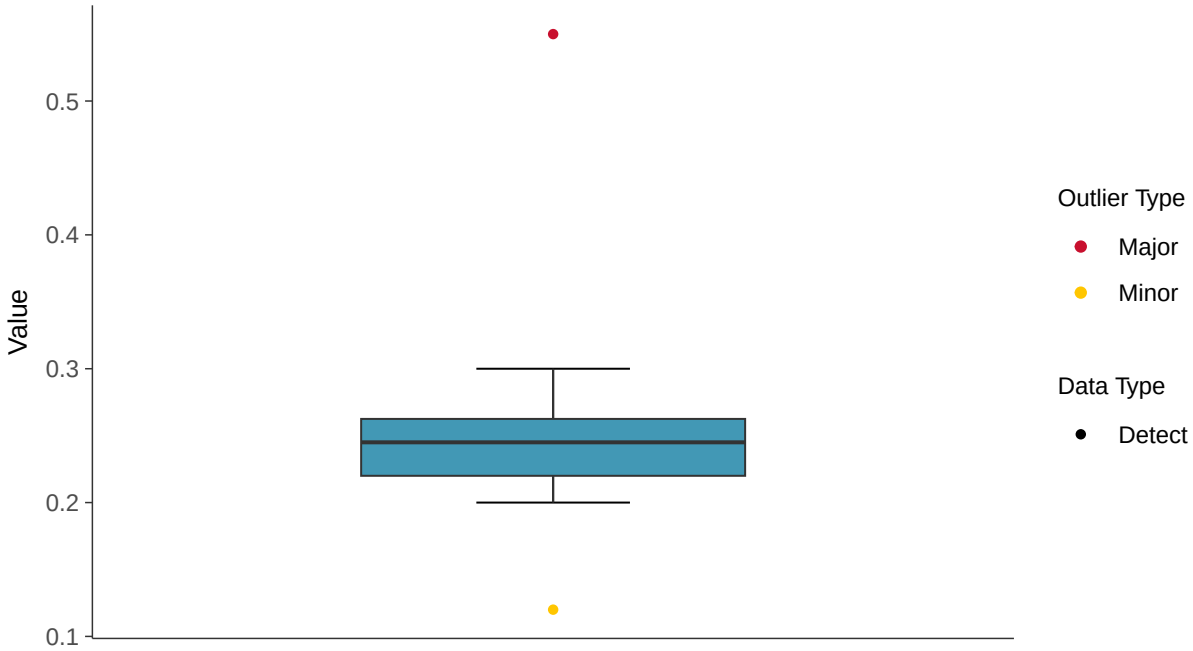
ID: 30_1_4_113





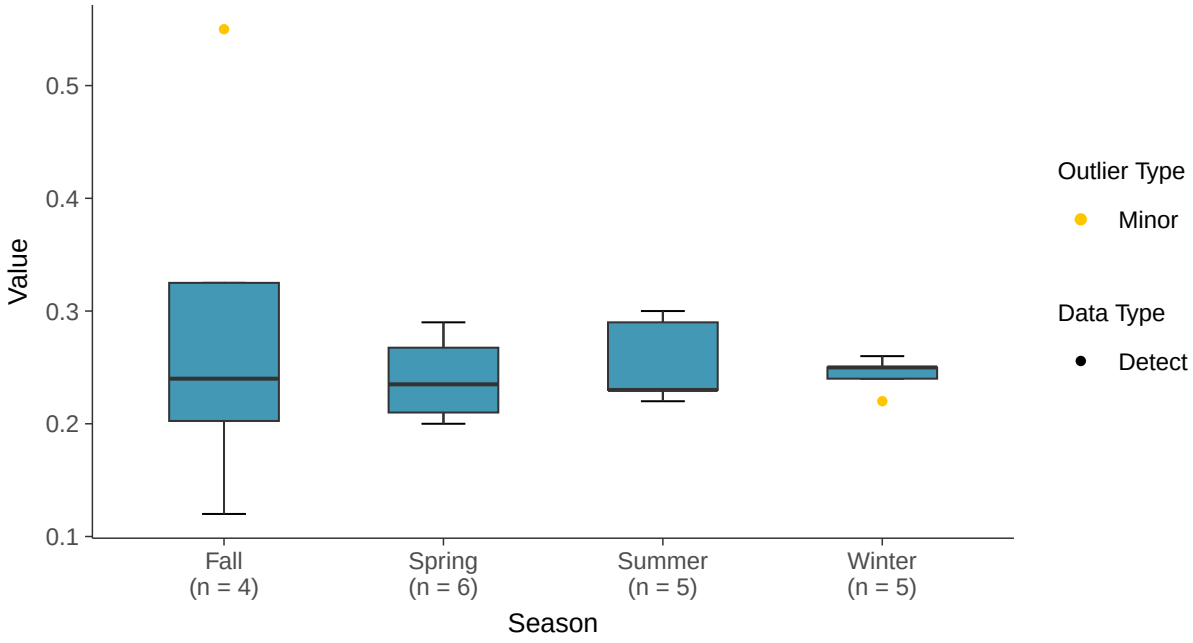
Boxplot

Fluoride (App IV), MW-20 (mg/L)



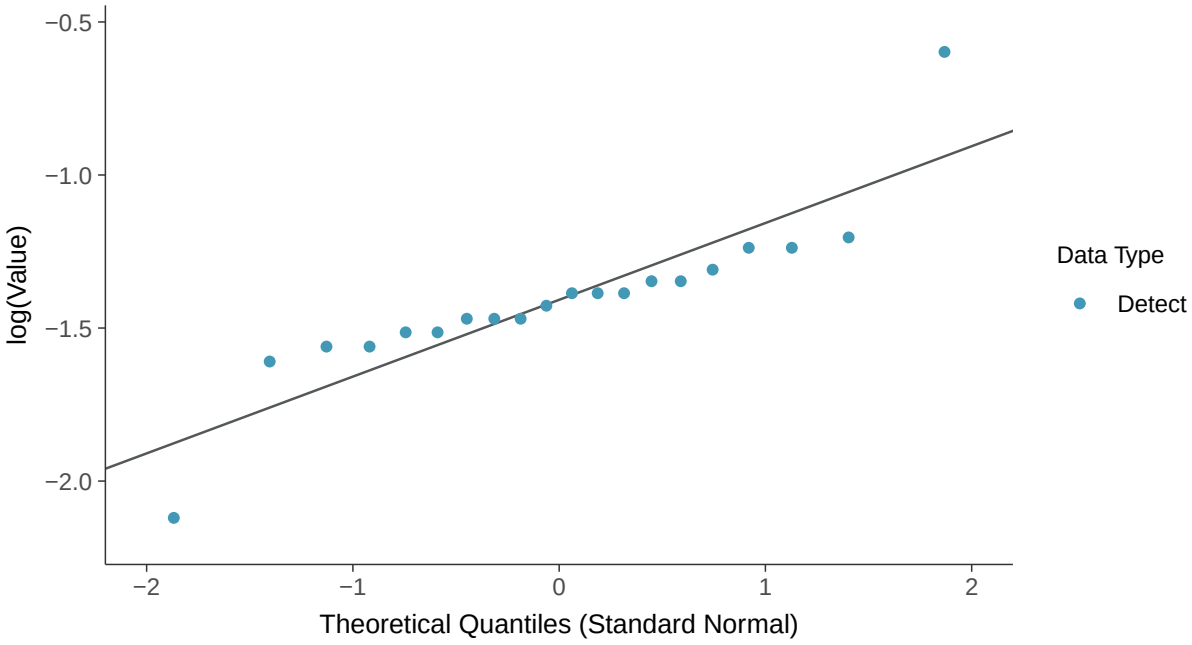
Boxplot by Season

Fluoride (App IV), MW-20 (mg/L)



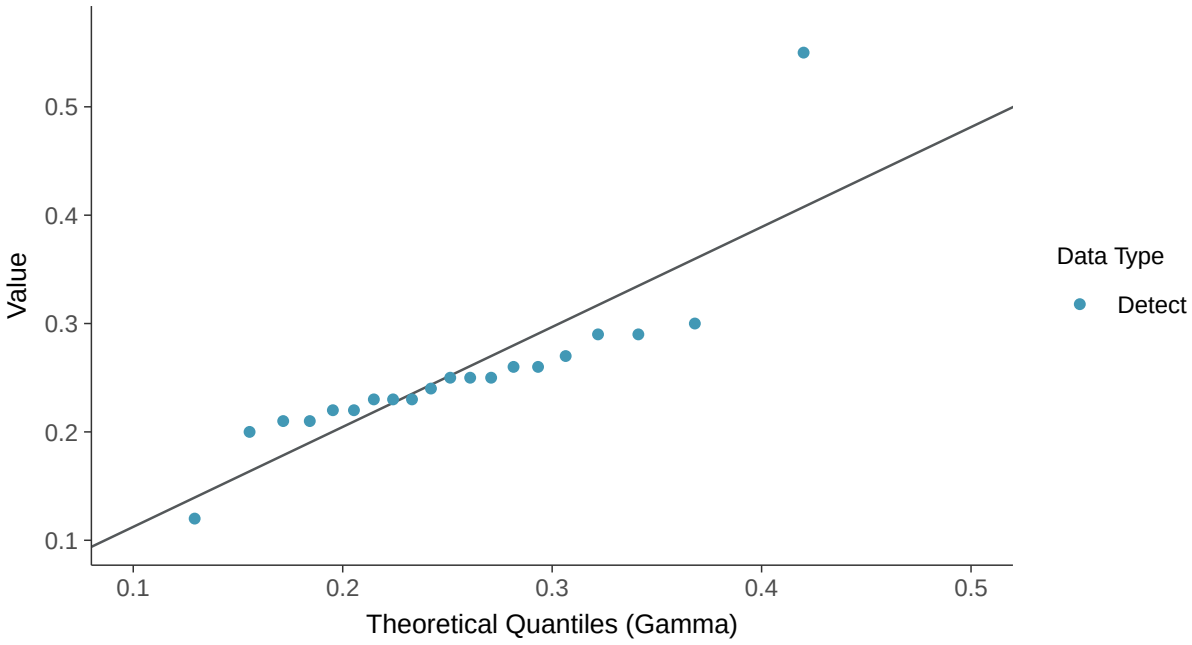
Lognormal Q-Q plot

Fluoride (App IV), MW-20 (mg/L)



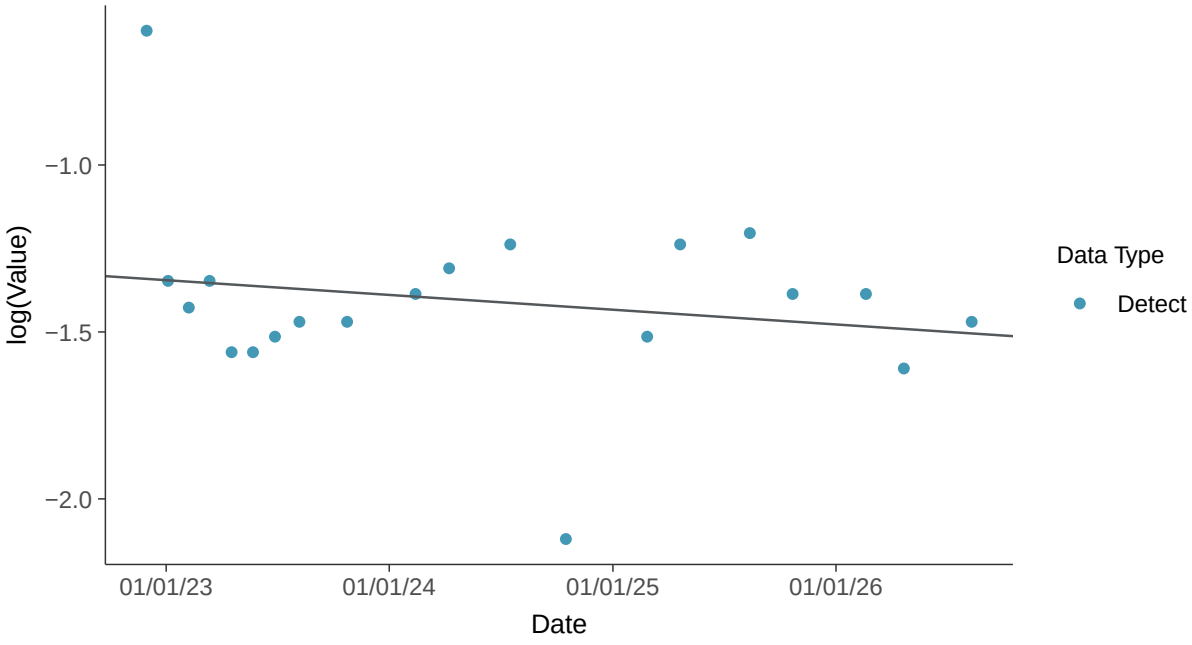
Gamma Q-Q plot

Fluoride (App IV), MW-20 (mg/L)



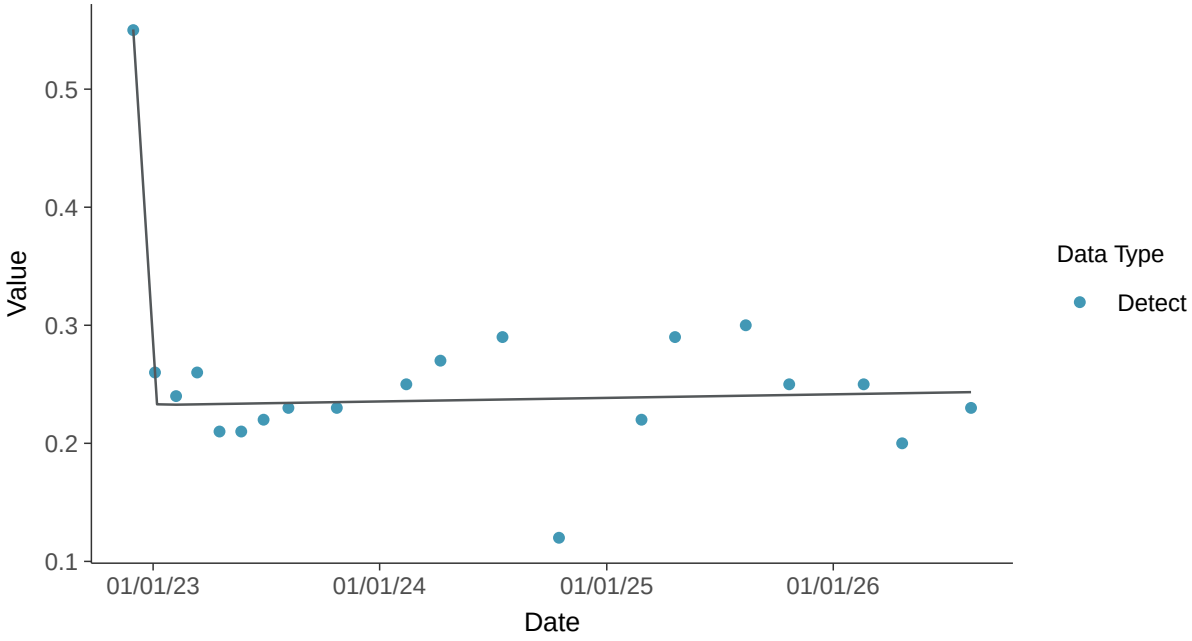
Trend Regression: Lognormal MLE

Fluoride (App IV), MW-20 (mg/L)



Trend Regression: Piecewise Linear-Linear

Fluoride (App IV), MW-20 (mg/L)

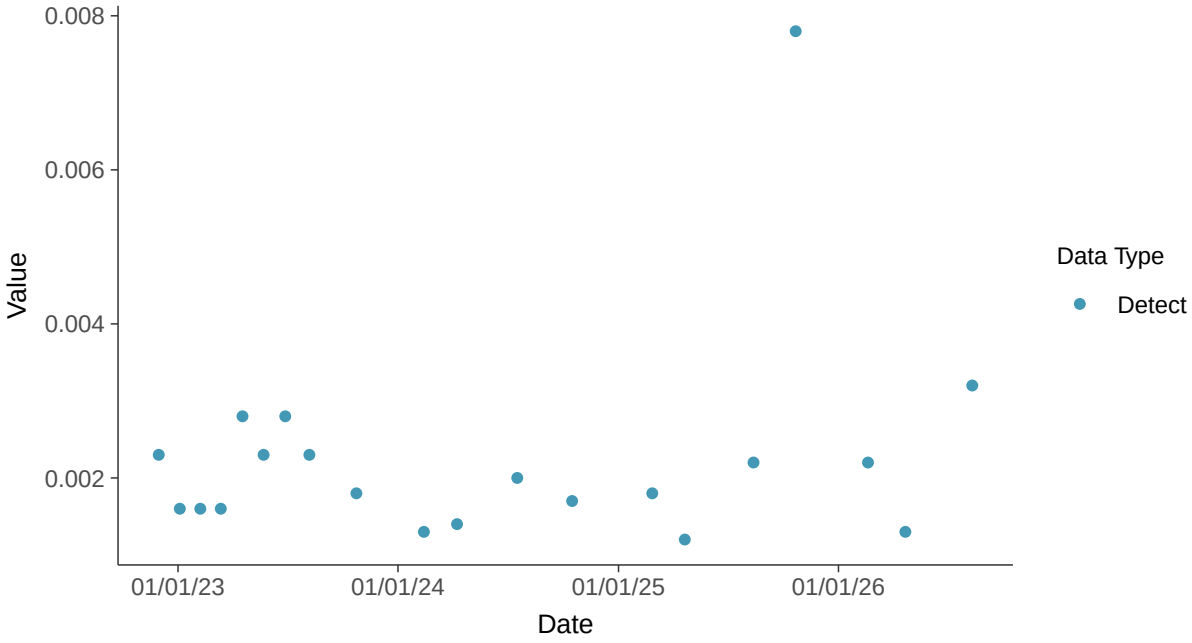


Appendix IV: Lead, MW-20

ID: 30_1_4_115

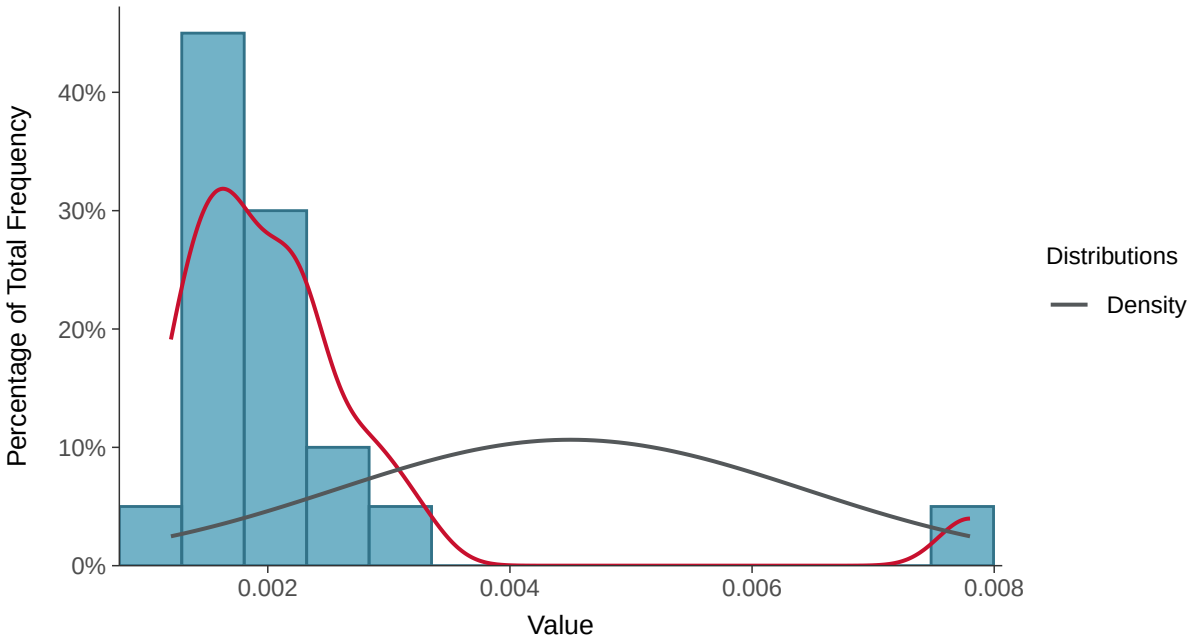
Scatter Plot

Lead, MW-20 (mg/L)



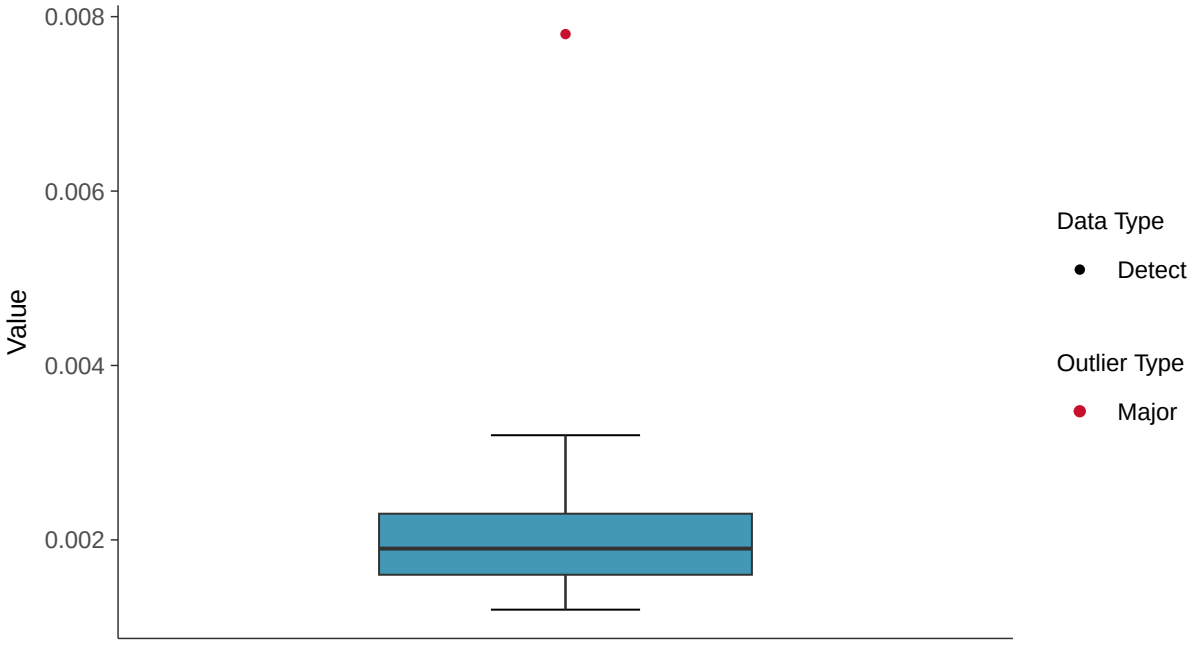
Histogram

Lead, MW-20 (mg/L)



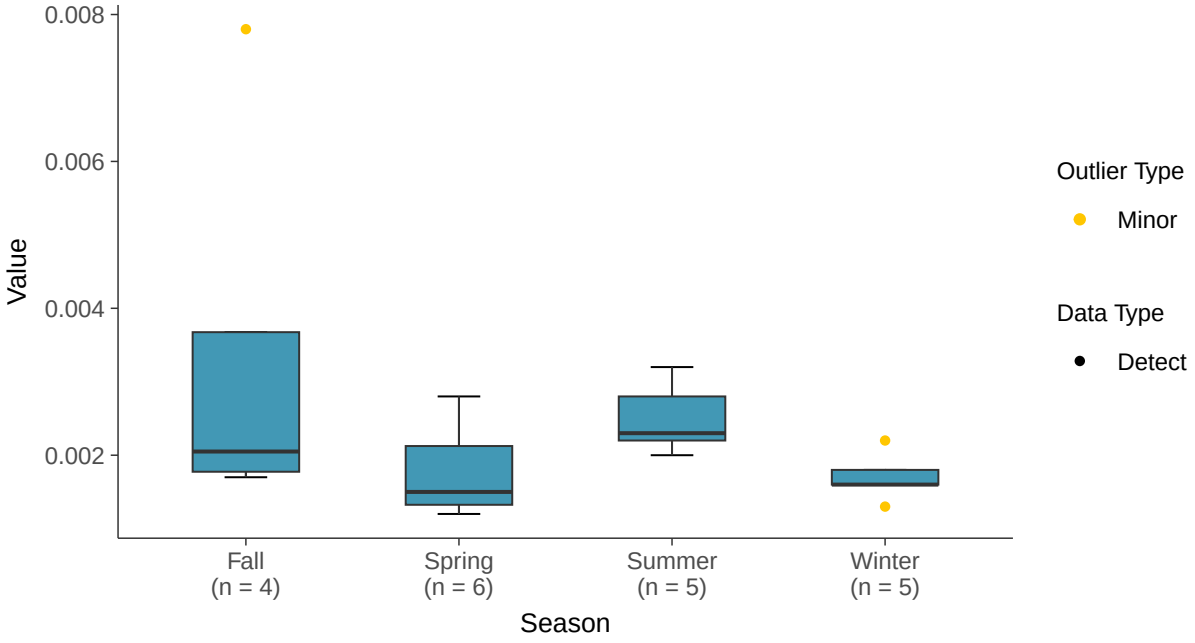
Boxplot

Lead, MW-20 (mg/L)



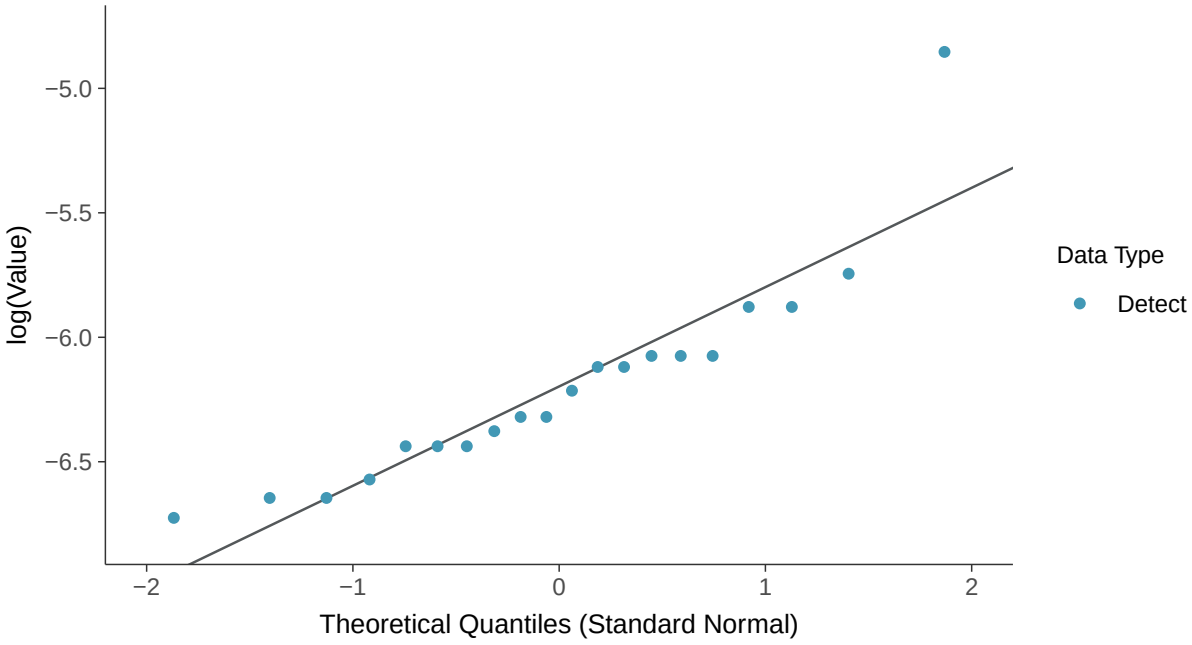
Boxplot by Season

Lead, MW-20 (mg/L)



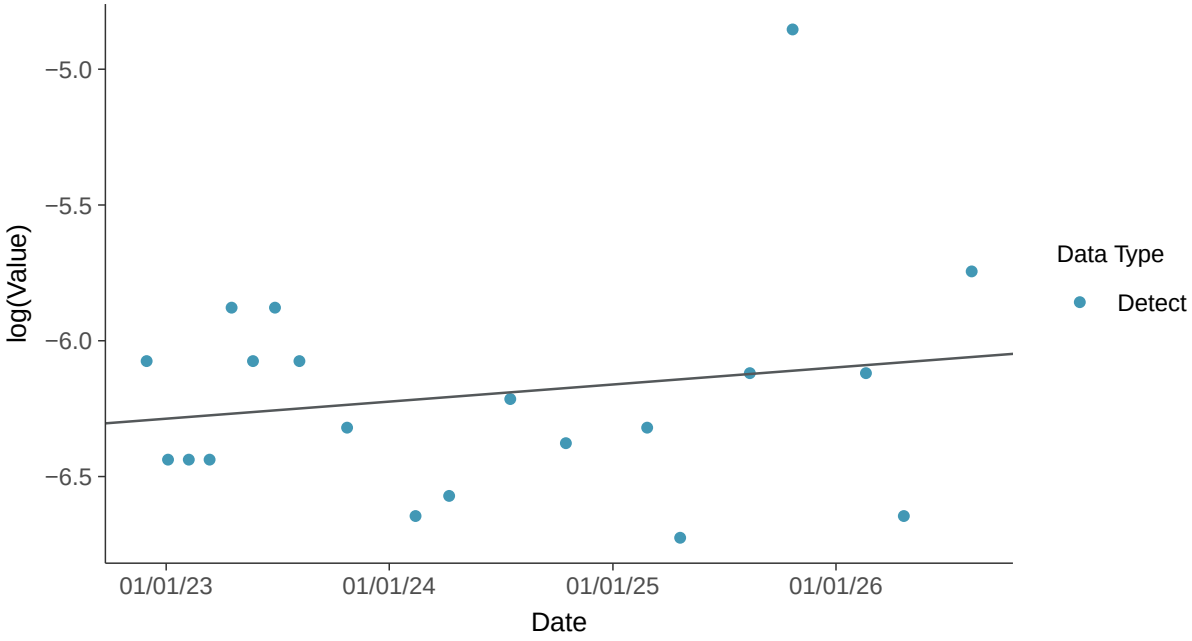
Lognormal Q-Q plot

Lead, MW-20 (mg/L)



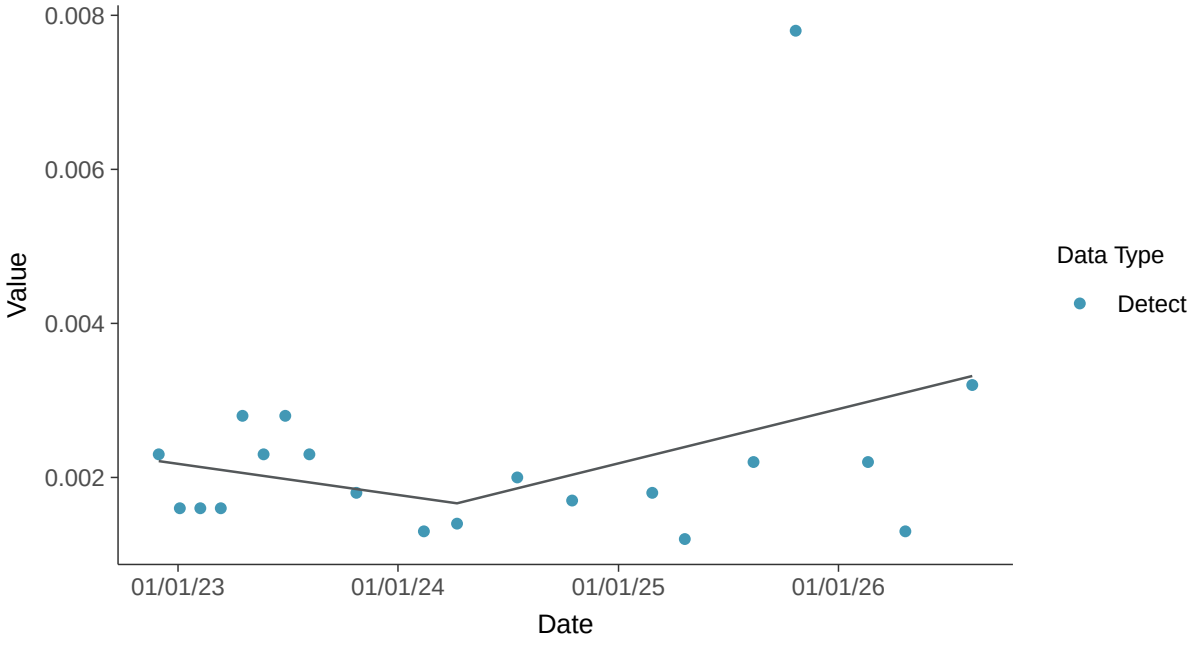
Trend Regression: Lognormal MLE

Lead, MW-20 (mg/L)



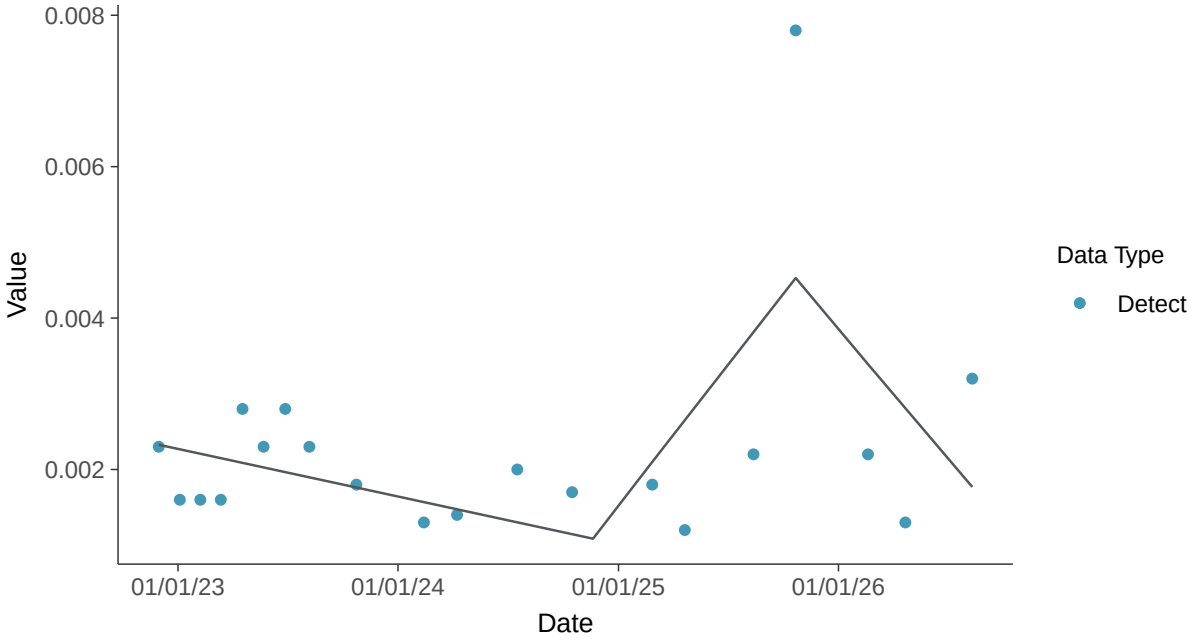
Trend Regression: Piecewise Linear-Linear

Lead, MW-20 (mg/L)



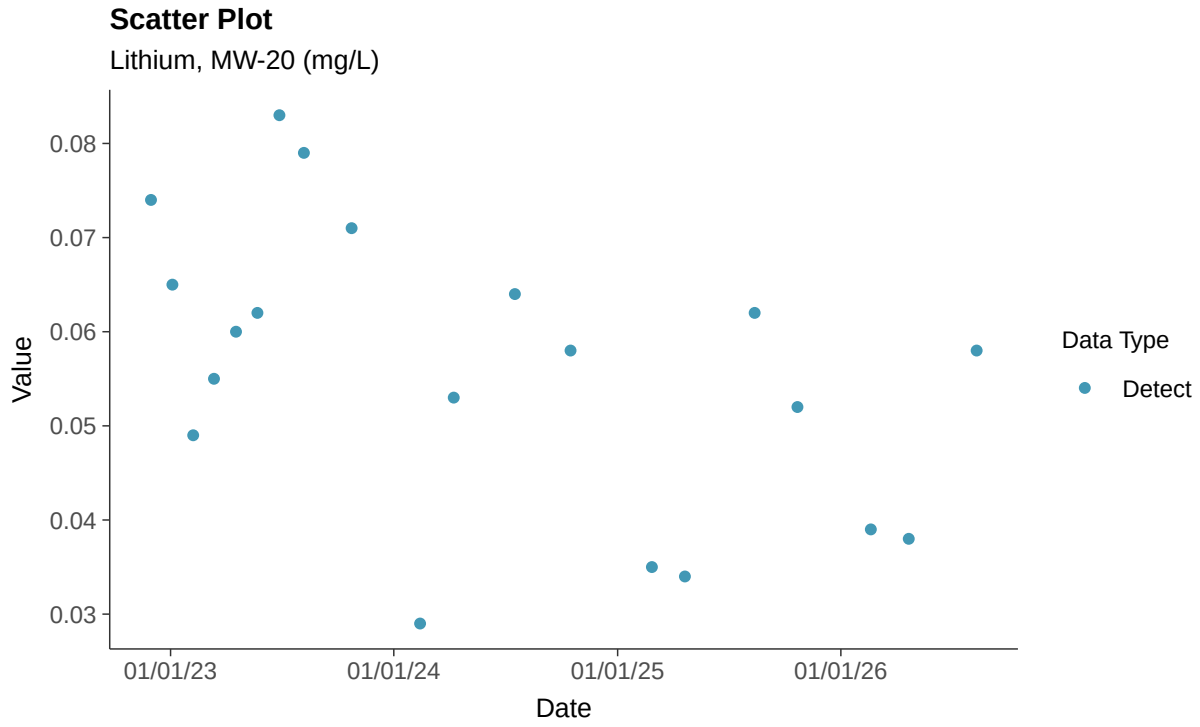
Trend Regression: Piecewise Linear-Linear-Linear

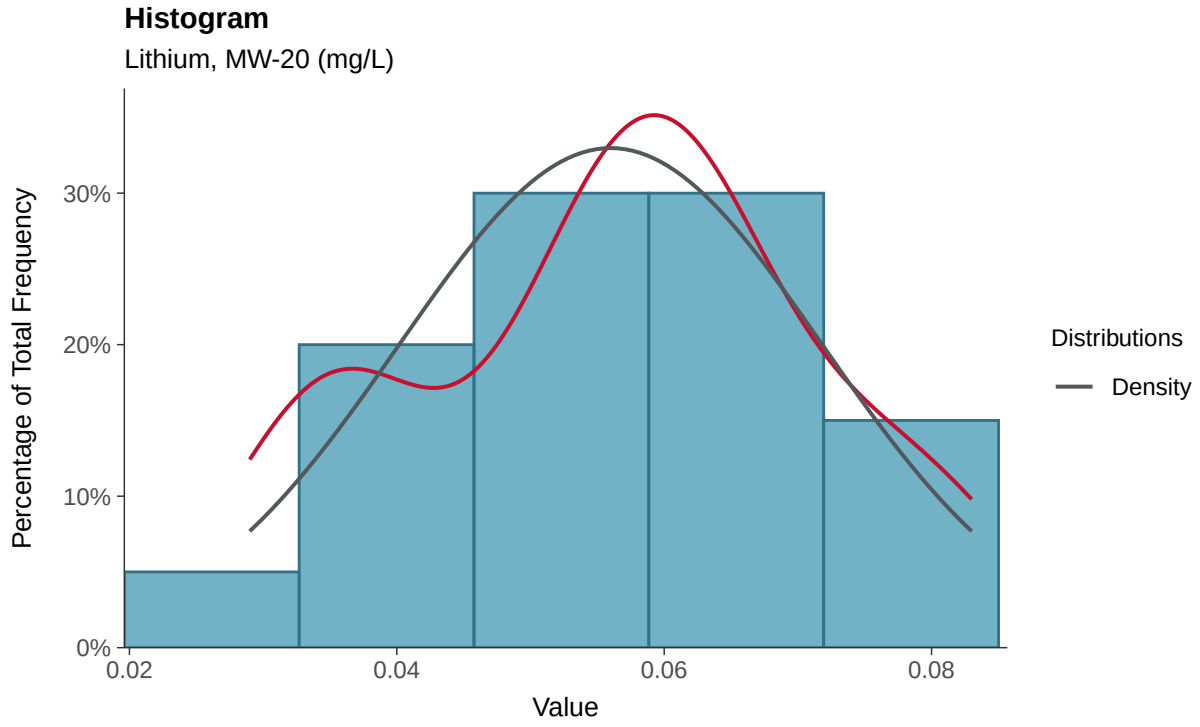
Lead, MW-20 (mg/L)



Appendix IV: Lithium, MW-20

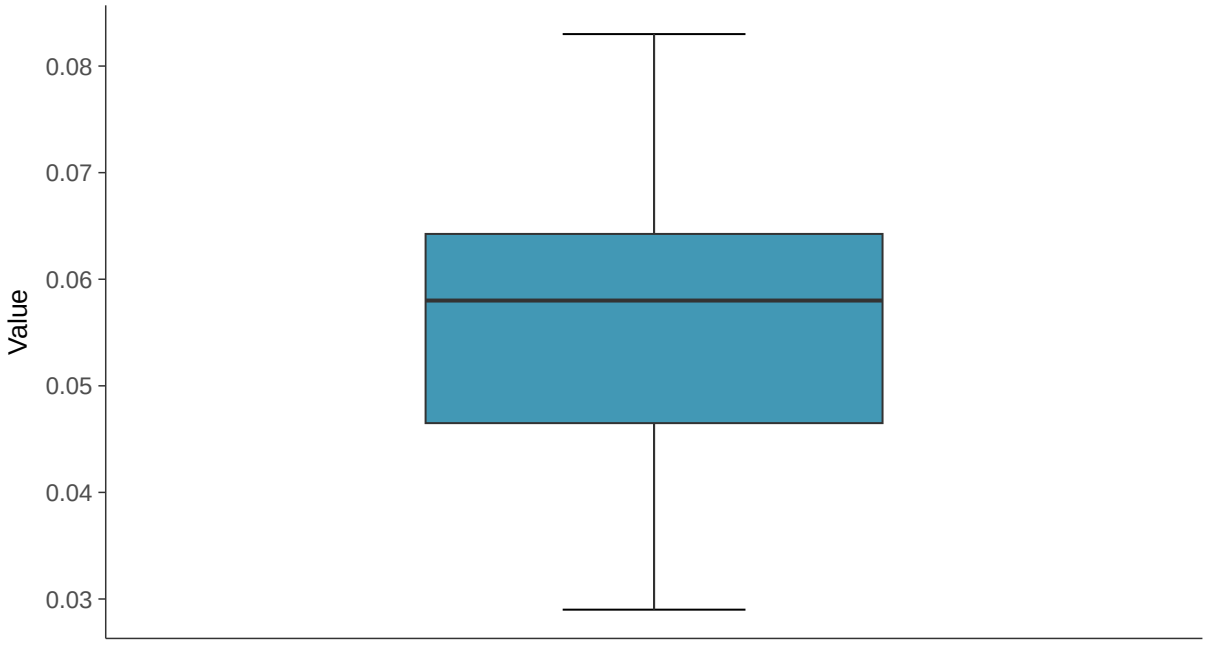
ID: 30_1_4_116





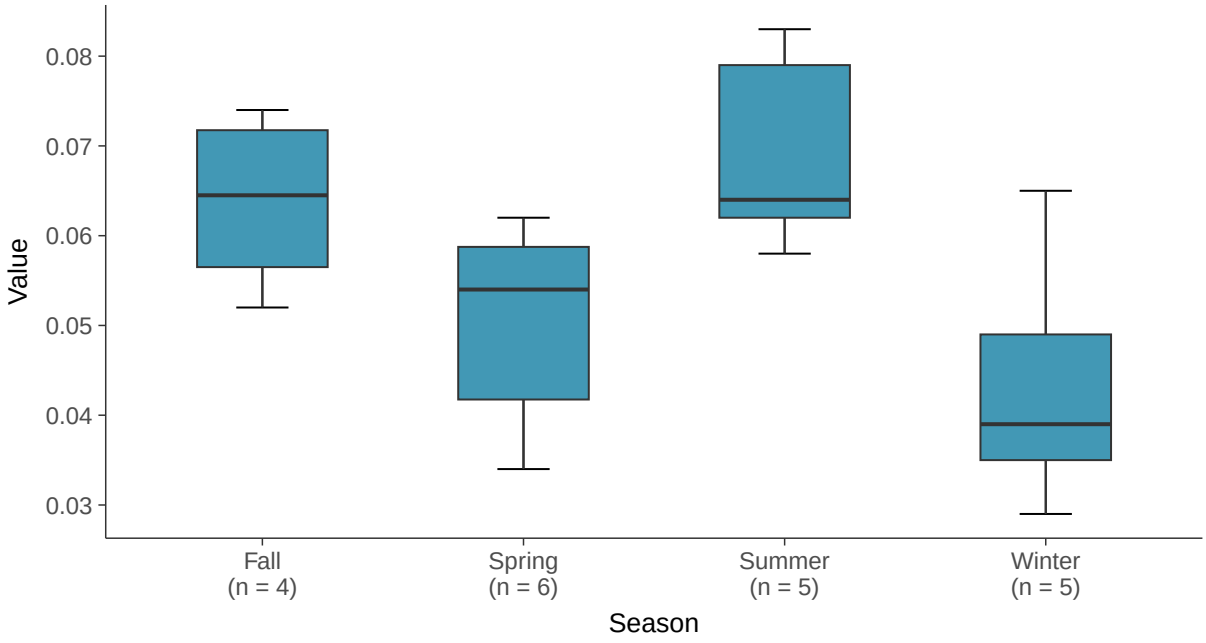
Boxplot

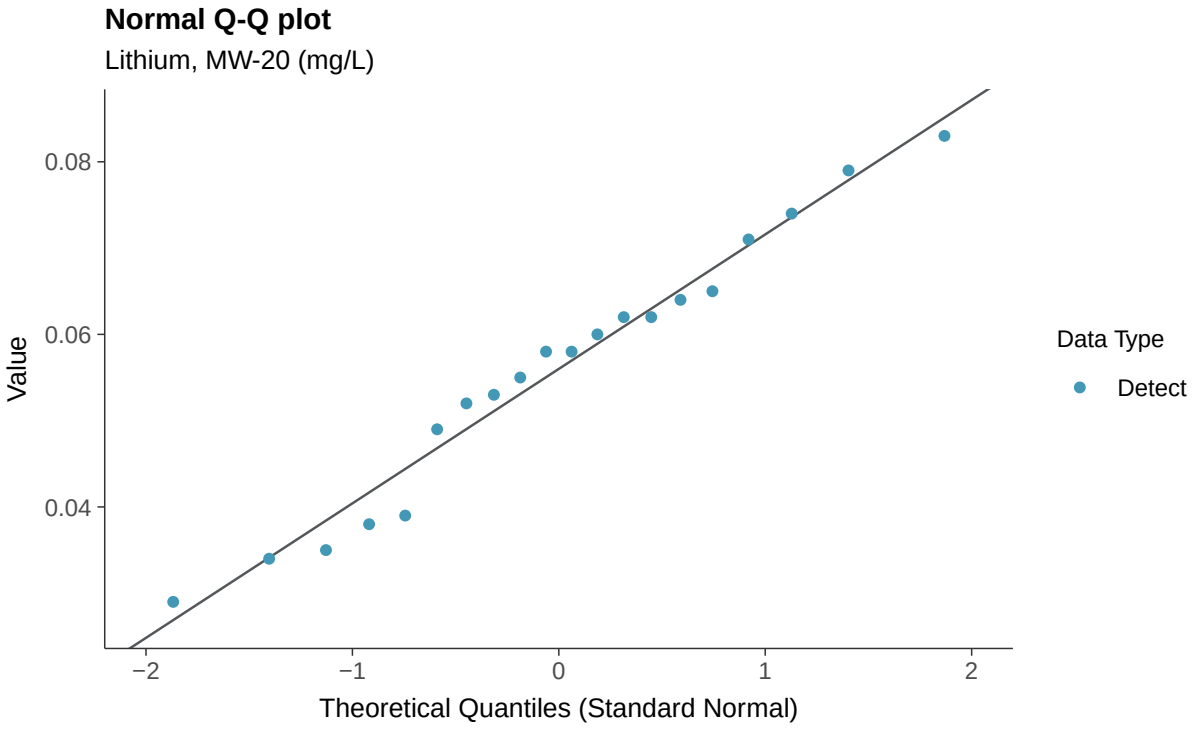
Lithium, MW-20 (mg/L)

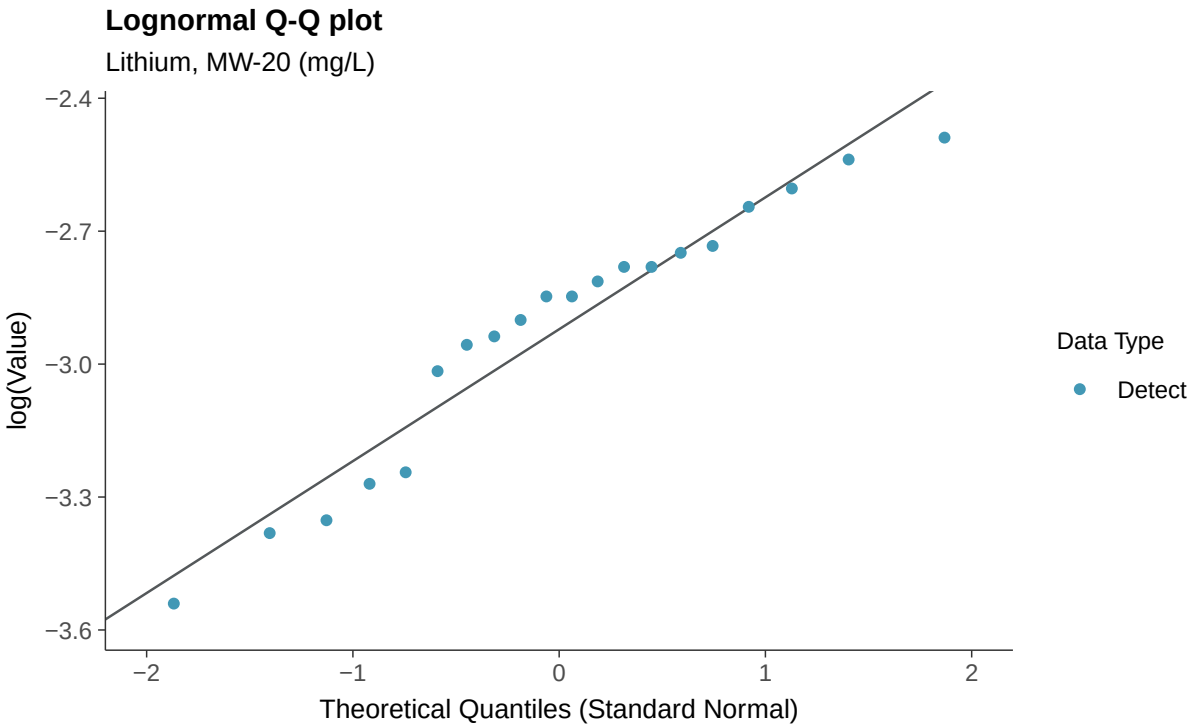


Boxplot by Season

Lithium, MW-20 (mg/L)

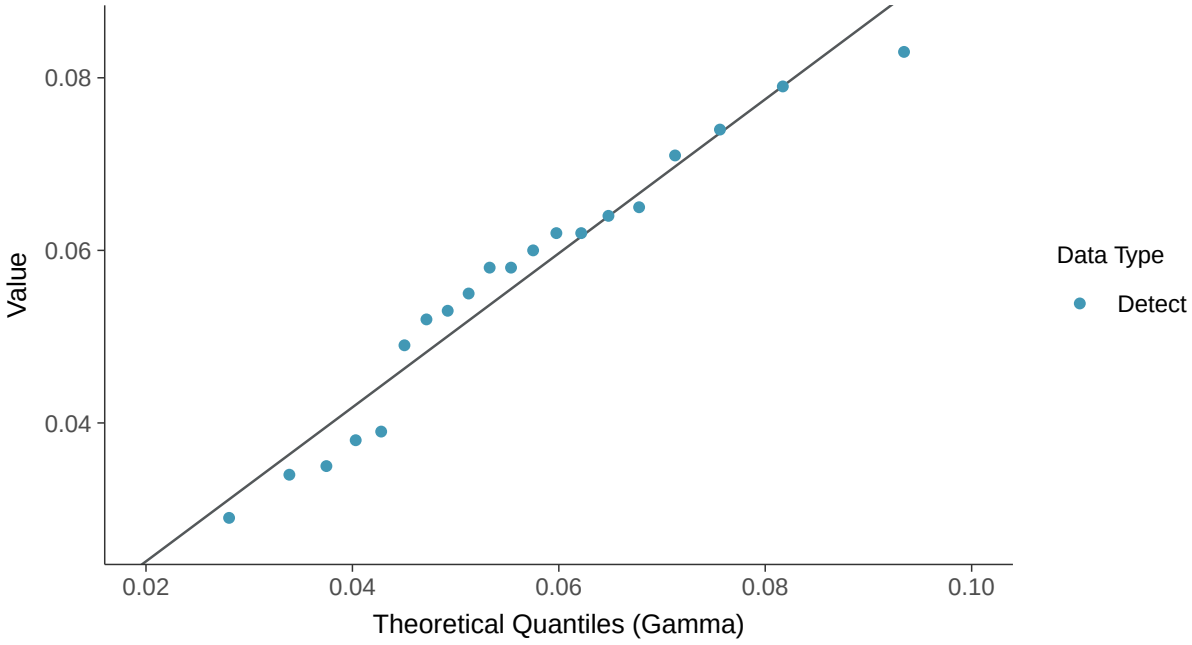



Normal Q-Q plot
Lithium, MW-20 (mg/L)
Value
0.08
0.06
0.04
−2
−1
0
1
2
Theoretical Quantiles (Standard Normal)
Data Type
Detect


Lognormal Q-Q plot
Lithium, MW-20 (mg/L)
log(Value)
−2.4
−2.7
−3.0
−3.3
−3.6
−2
−1
0
1
2
Theoretical Quantiles (Standard Normal)
Data Type
Detect

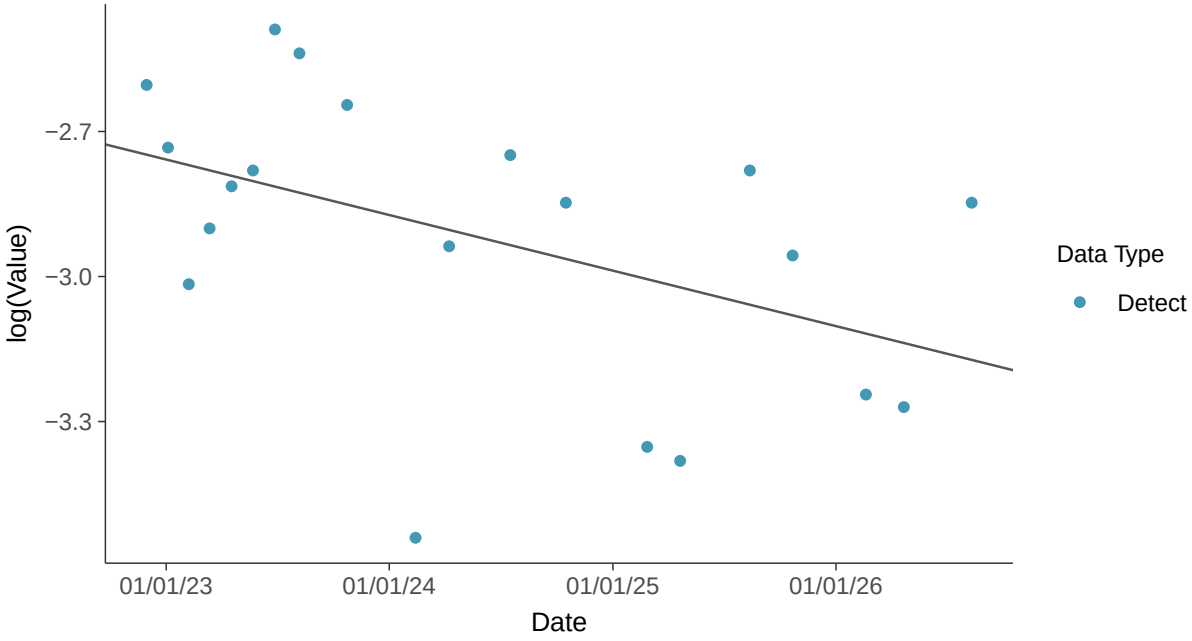
Gamma Q-Q plot

Lithium, MW-20 (mg/L)



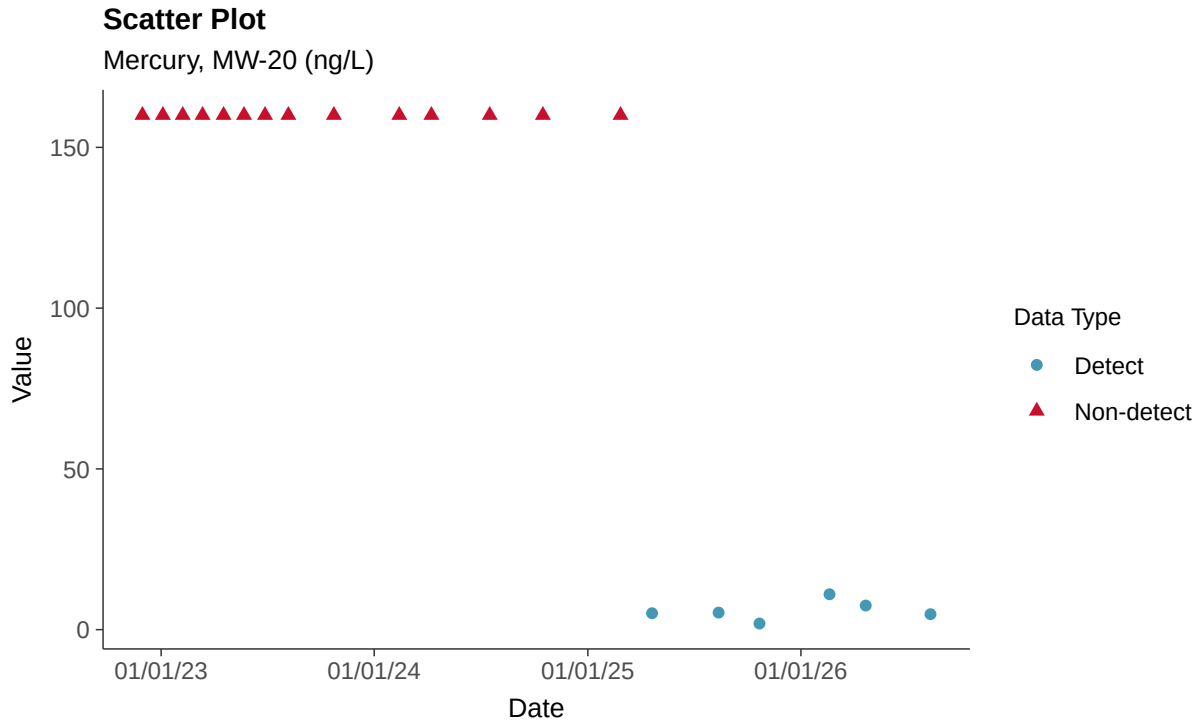
Trend Regression: Lognormal MLE

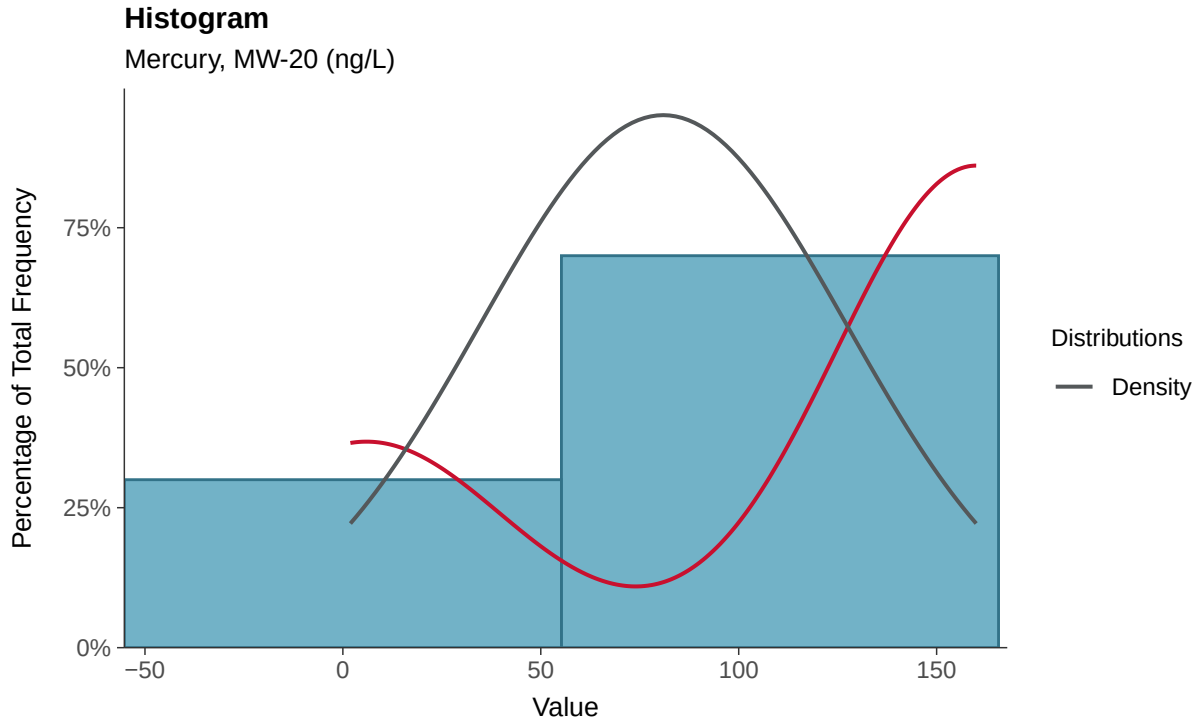
Lithium, MW-20 (mg/L)



Appendix IV: Mercury, MW-20

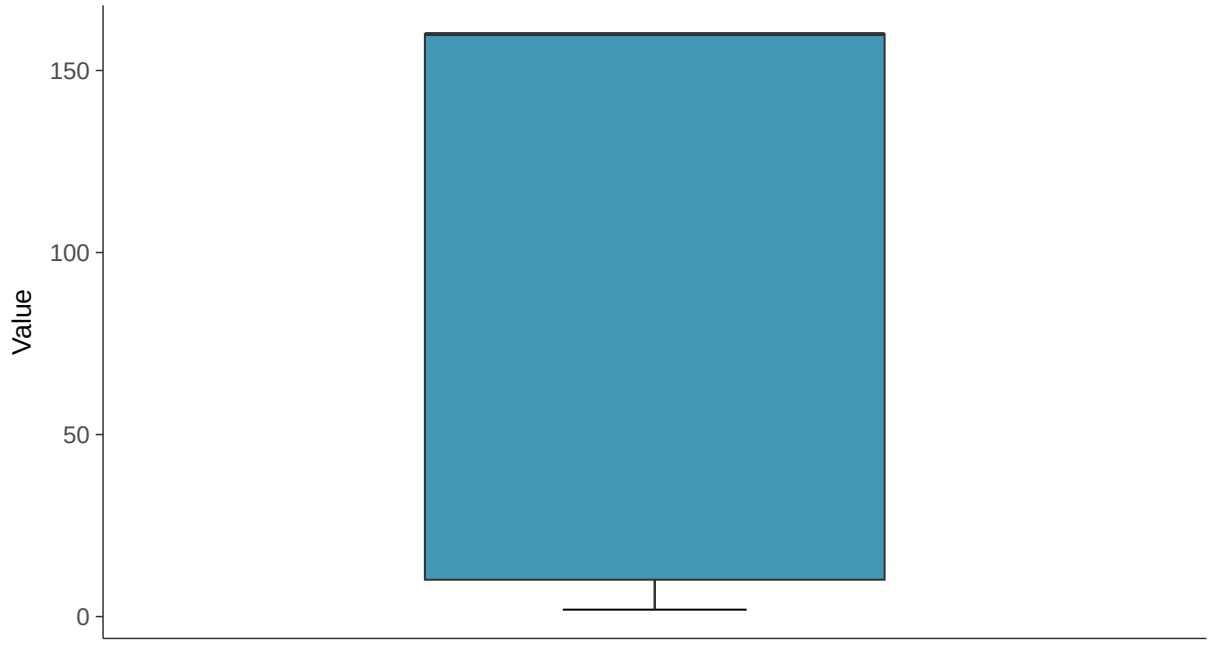
ID: 30_1_4_117





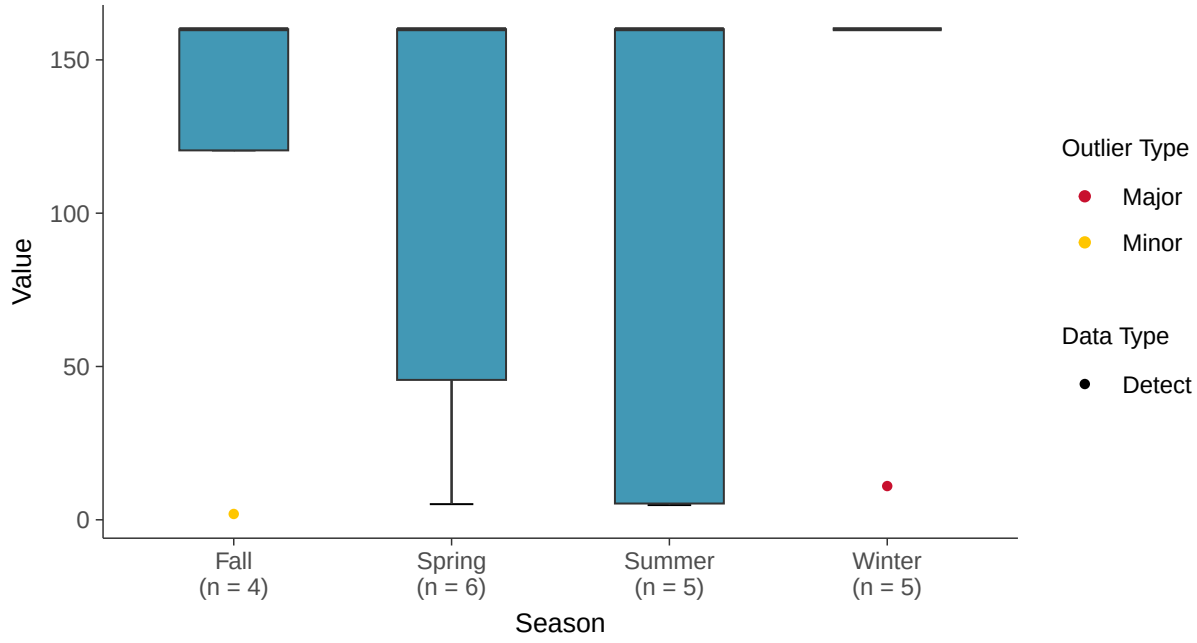
Boxplot

Mercury, MW-20 (ng/L)



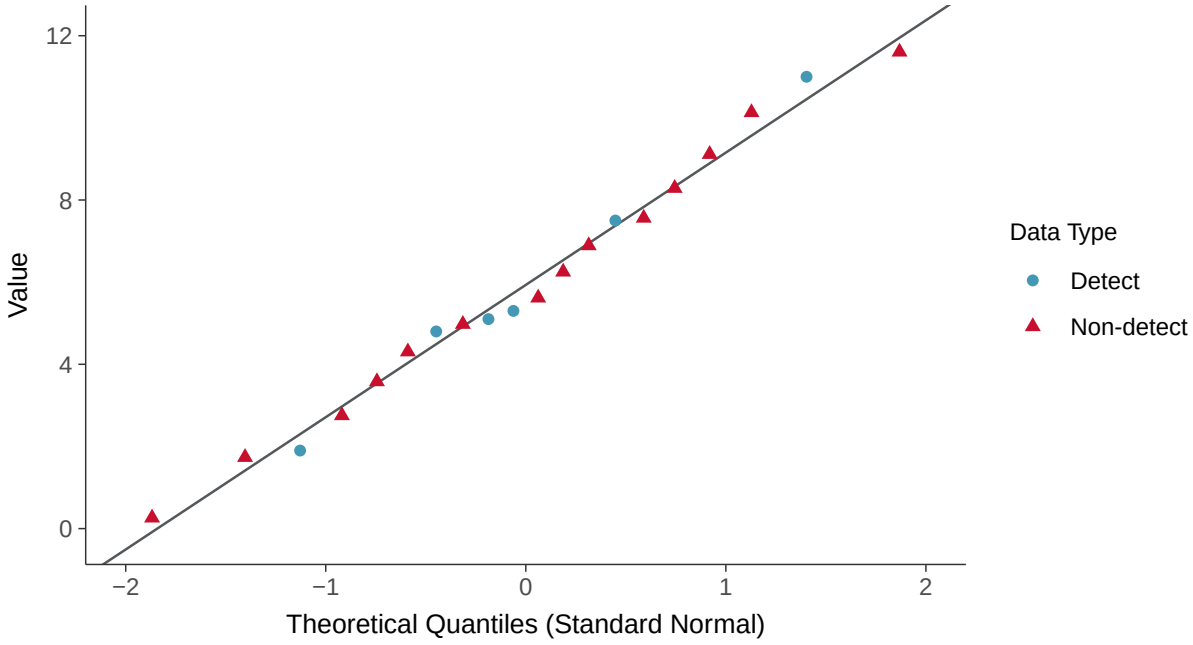
Boxplot by Season

Mercury, MW-20 (ng/L)



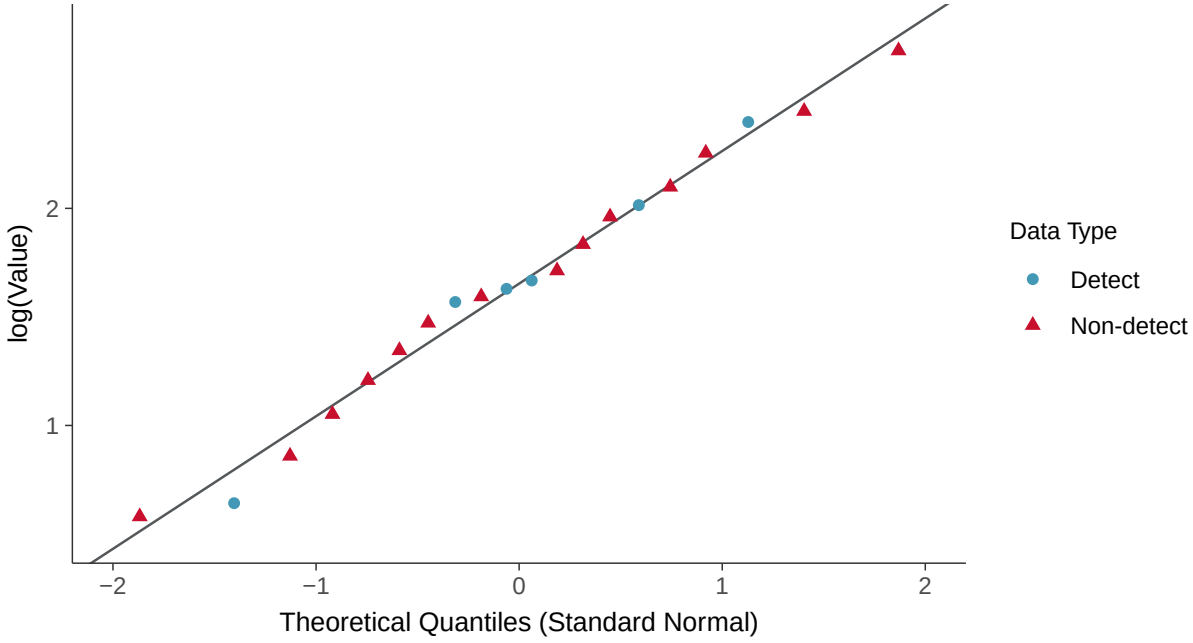
Normal Q-Q plot using ROS Imputed Estimates

Mercury, MW-20 (ng/L)



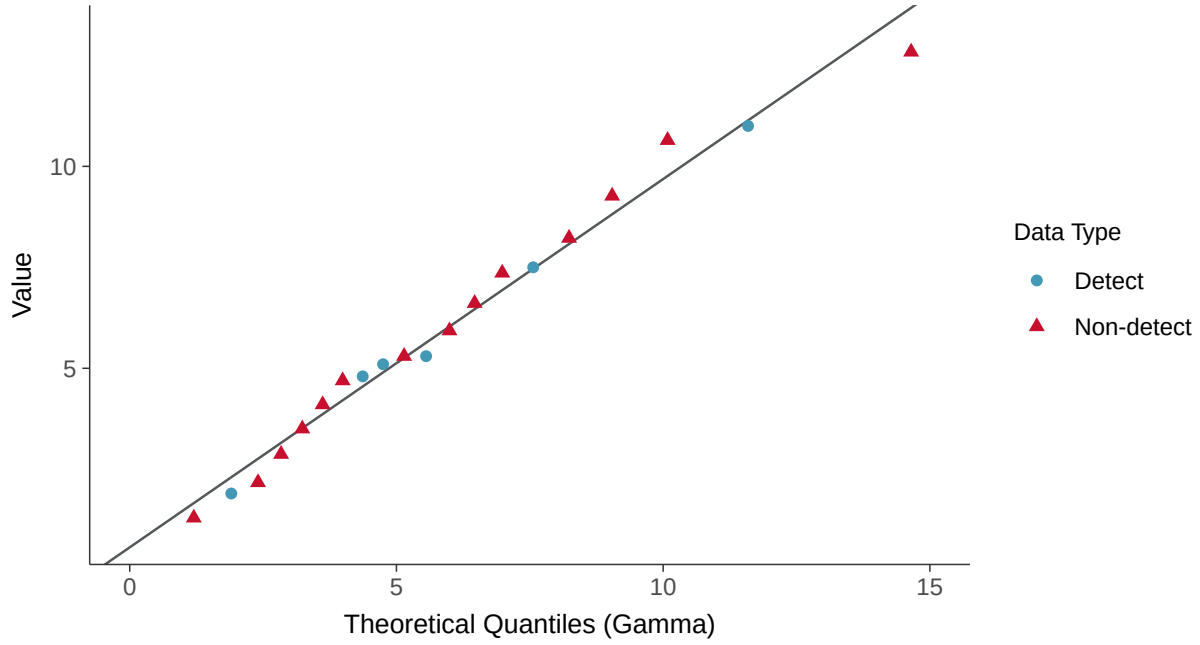
Lognormal Q-Q plot using ROS Imputed Estimates

Mercury, MW-20 (ng/L)



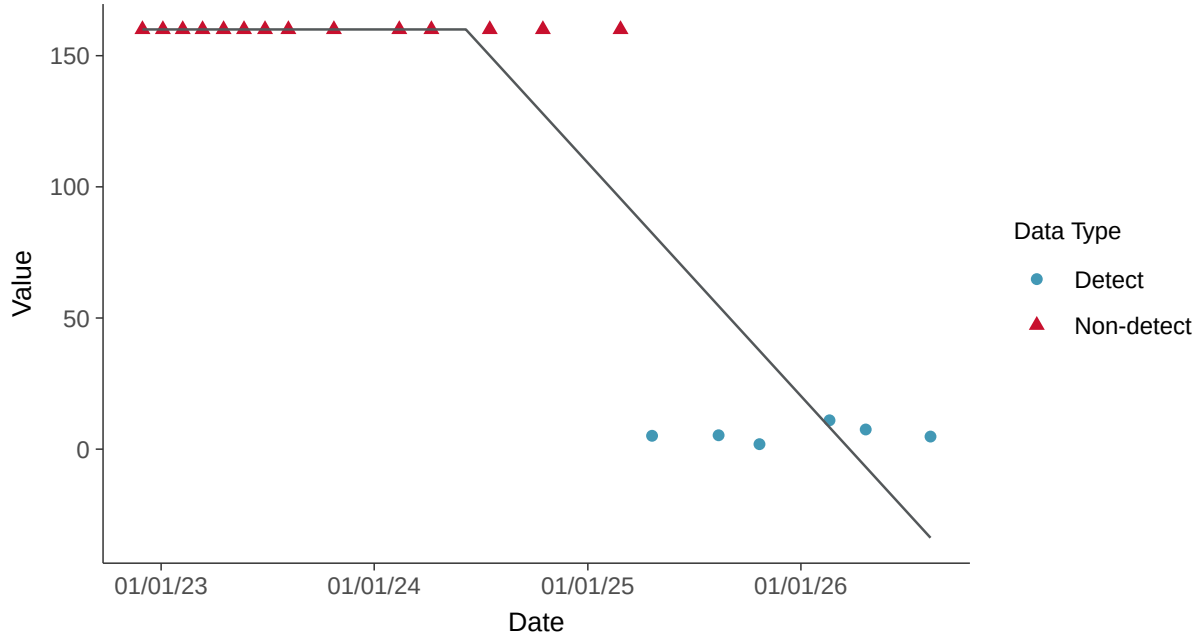
Gamma Q-Q plot using ROS Imputed Estimates

Mercury, MW-20 (ng/L)



Trend Regression: Piecewise Linear-Linear

Mercury, MW-20 (ng/L)

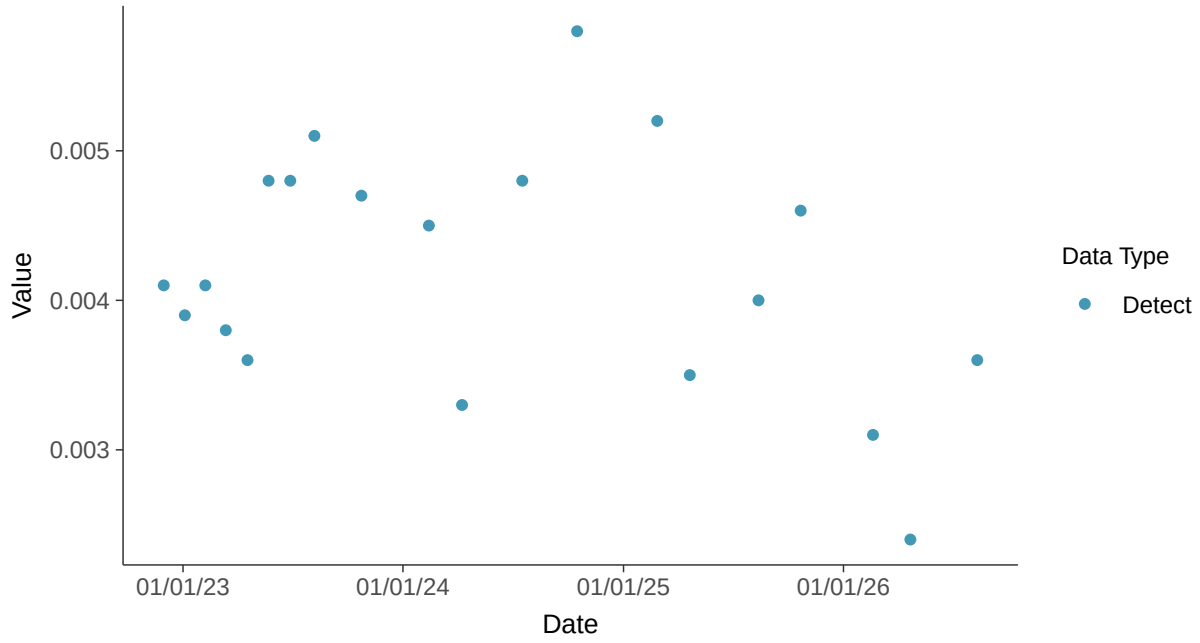


Appendix IV: Molybdenum, MW-20

ID: 30_1_4_118

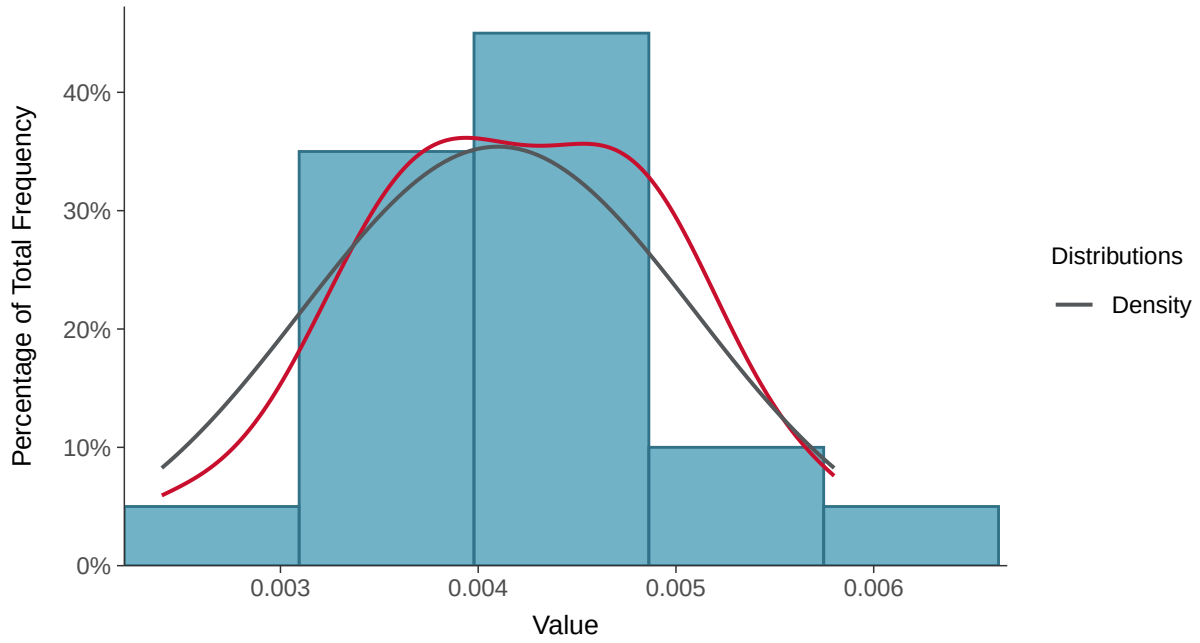
Scatter Plot

Molybdenum, MW-20 (mg/L)



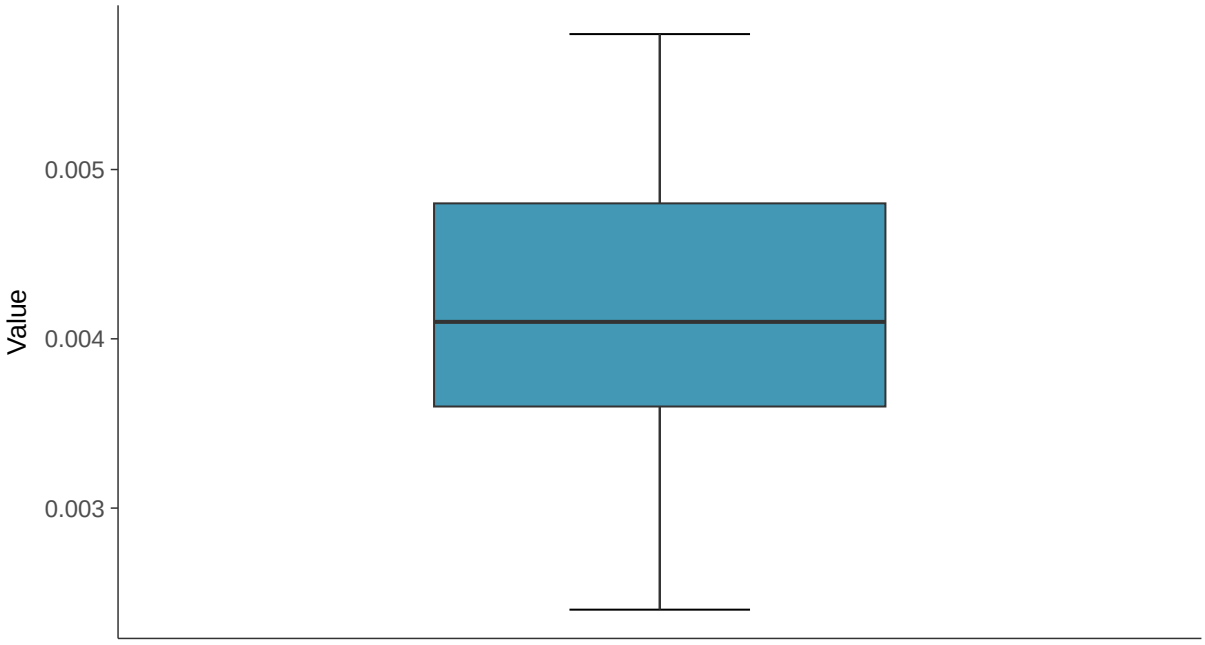
Histogram

Molybdenum, MW-20 (mg/L)



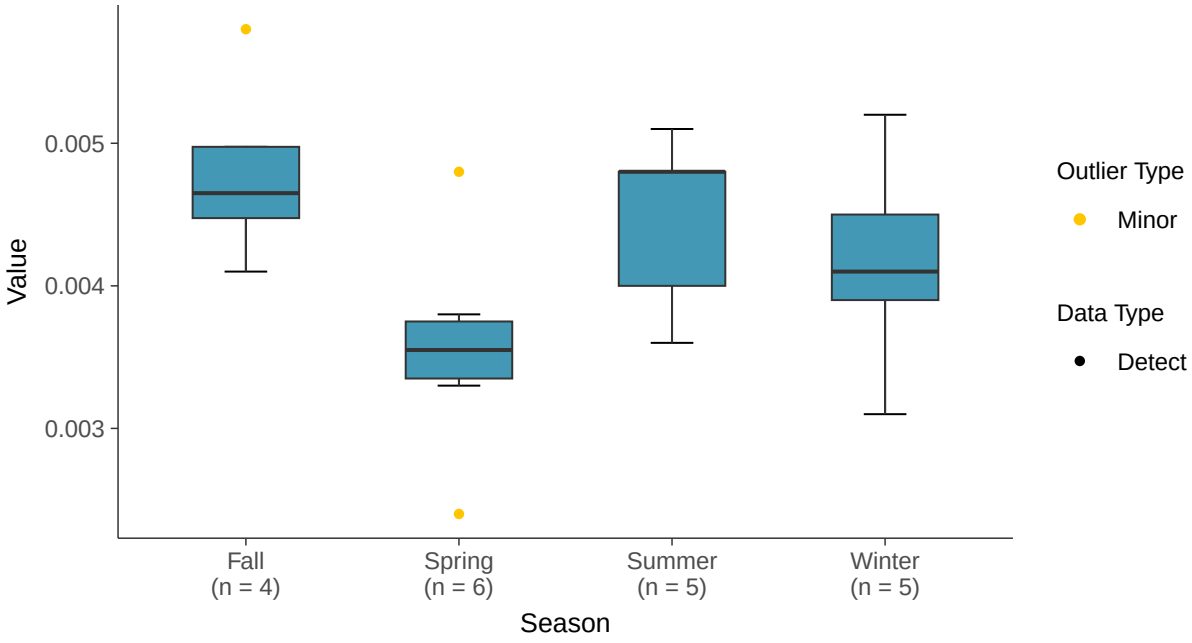
Boxplot

Molybdenum, MW-20 (mg/L)



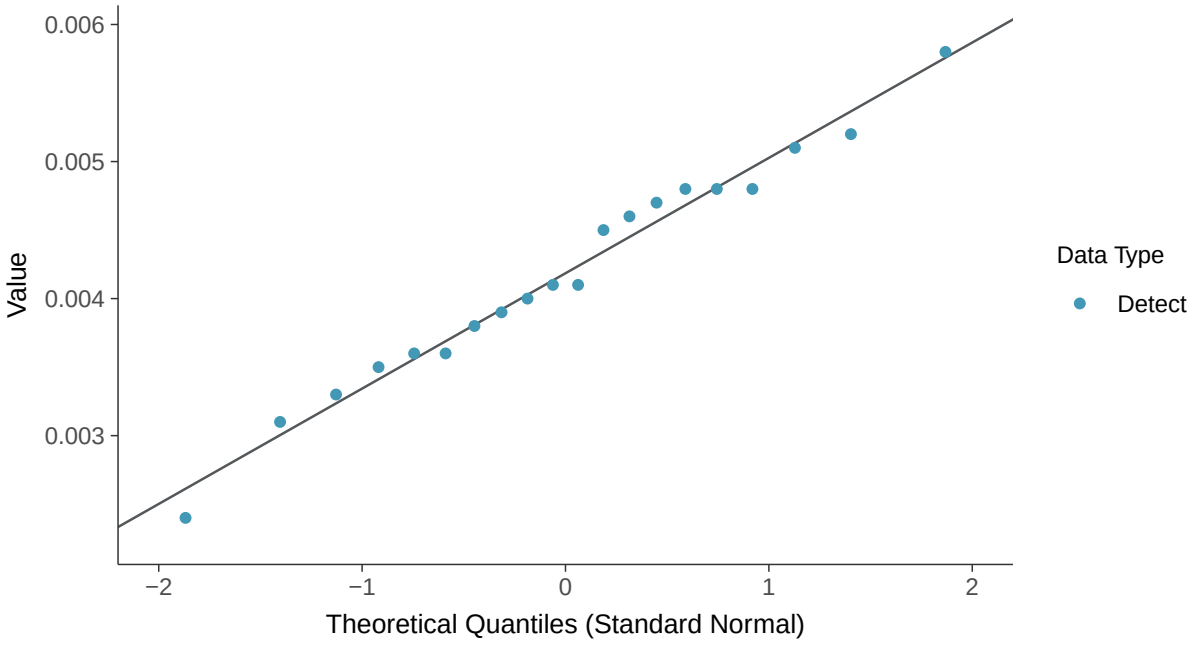
Boxplot by Season

Molybdenum, MW-20 (mg/L)



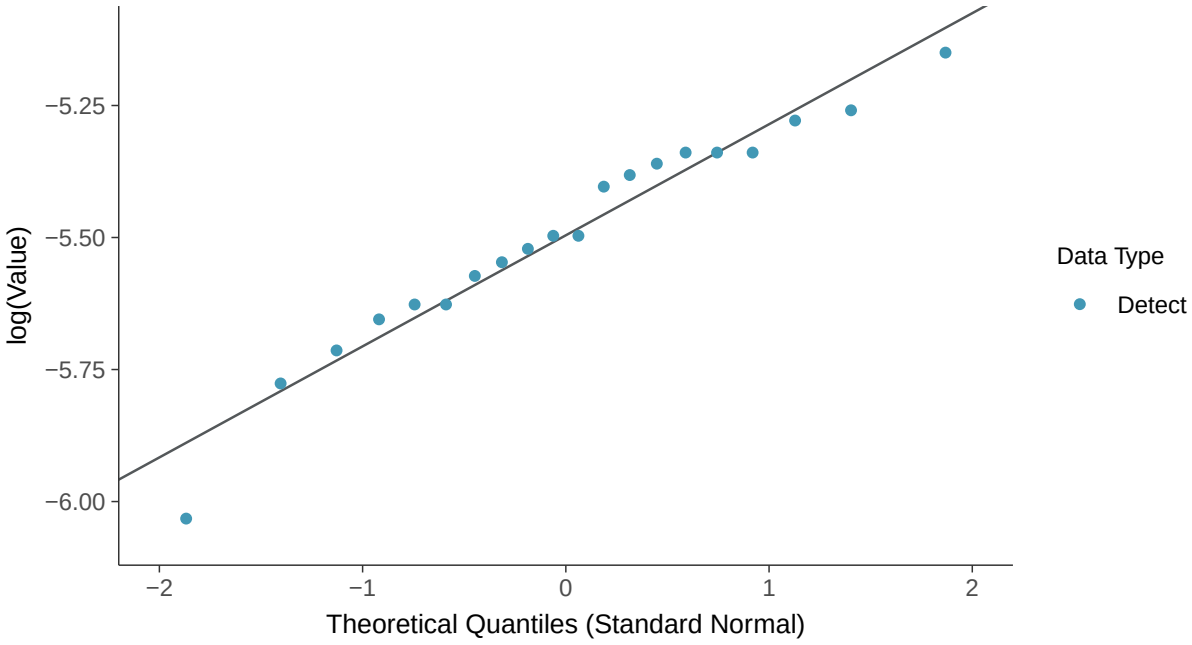
Normal Q-Q plot

Molybdenum, MW-20 (mg/L)



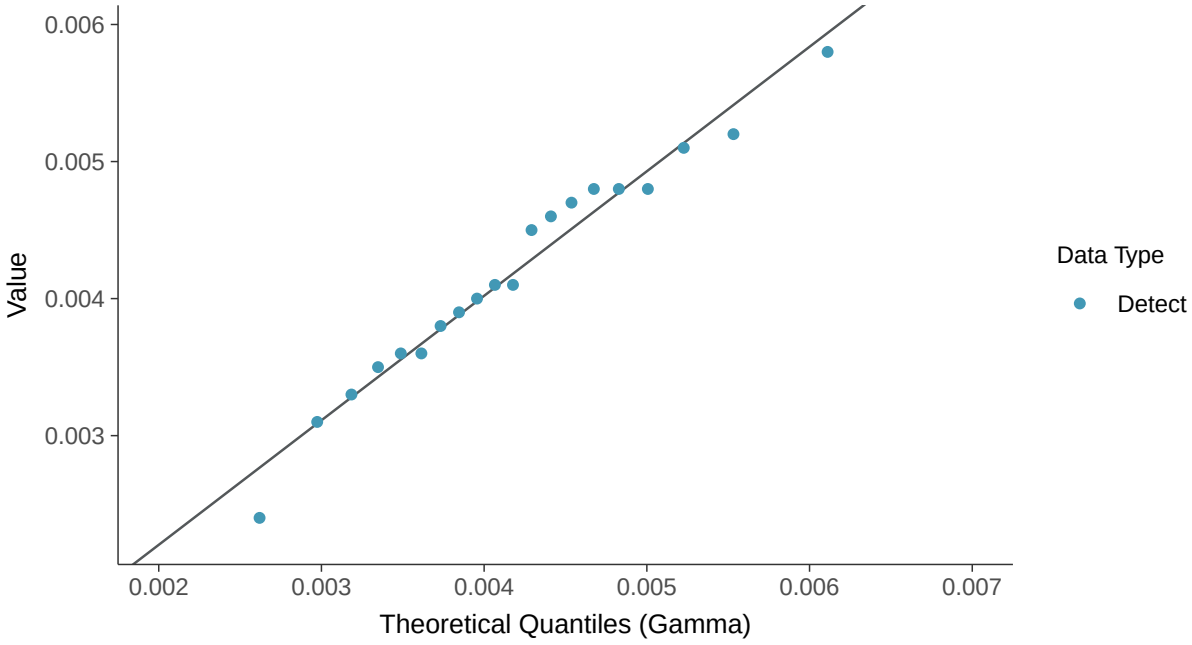
Lognormal Q-Q plot

Molybdenum, MW-20 (mg/L)



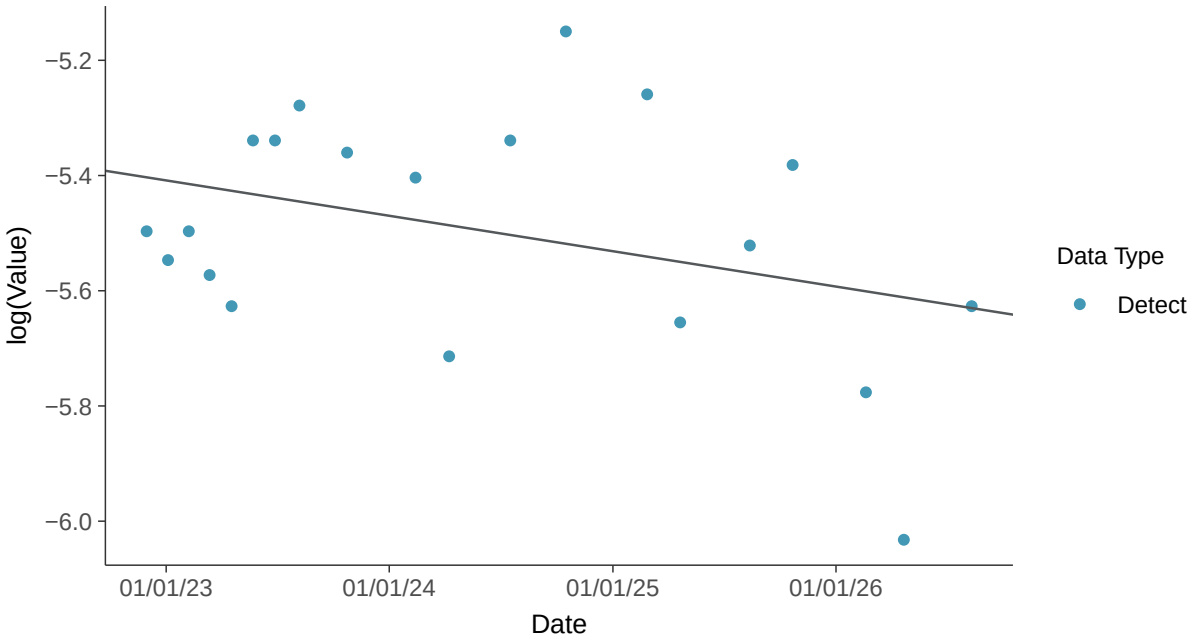
Gamma Q-Q plot

Molybdenum, MW-20 (mg/L)



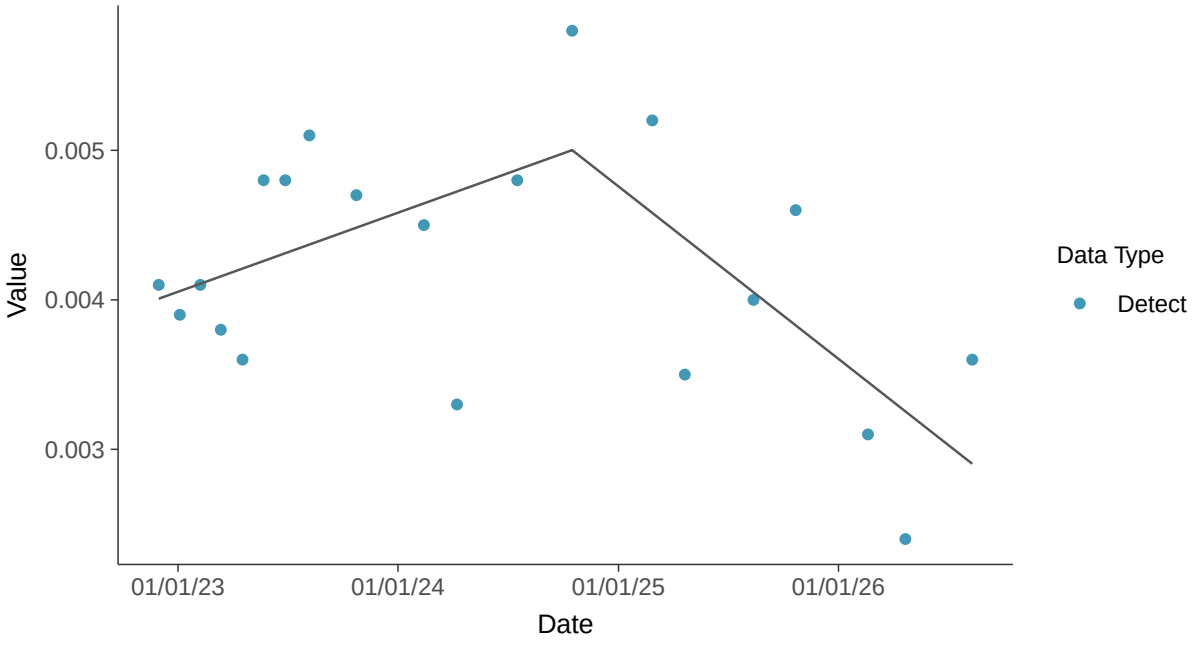
Trend Regression: Lognormal MLE

Molybdenum, MW-20 (mg/L)



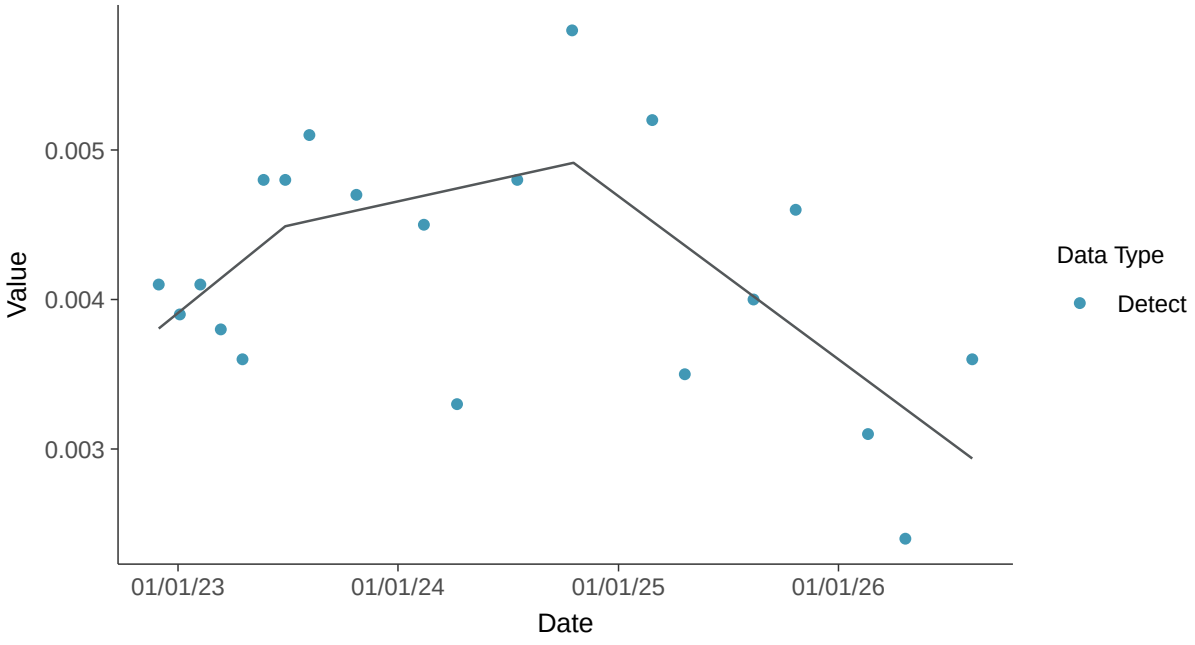
Trend Regression: Piecewise Linear-Linear

Molybdenum, MW-20 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Molybdenum, MW-20 (mg/L)

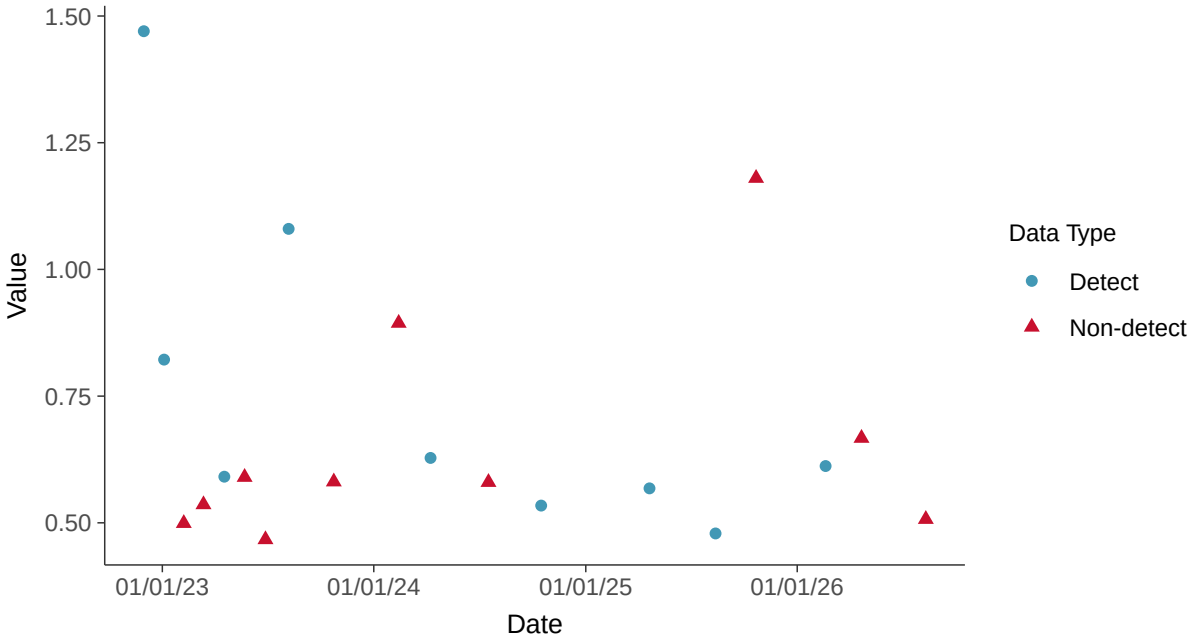


Appendix IV: Radium 226 and 228, MW-20

ID: 30_1_4_121

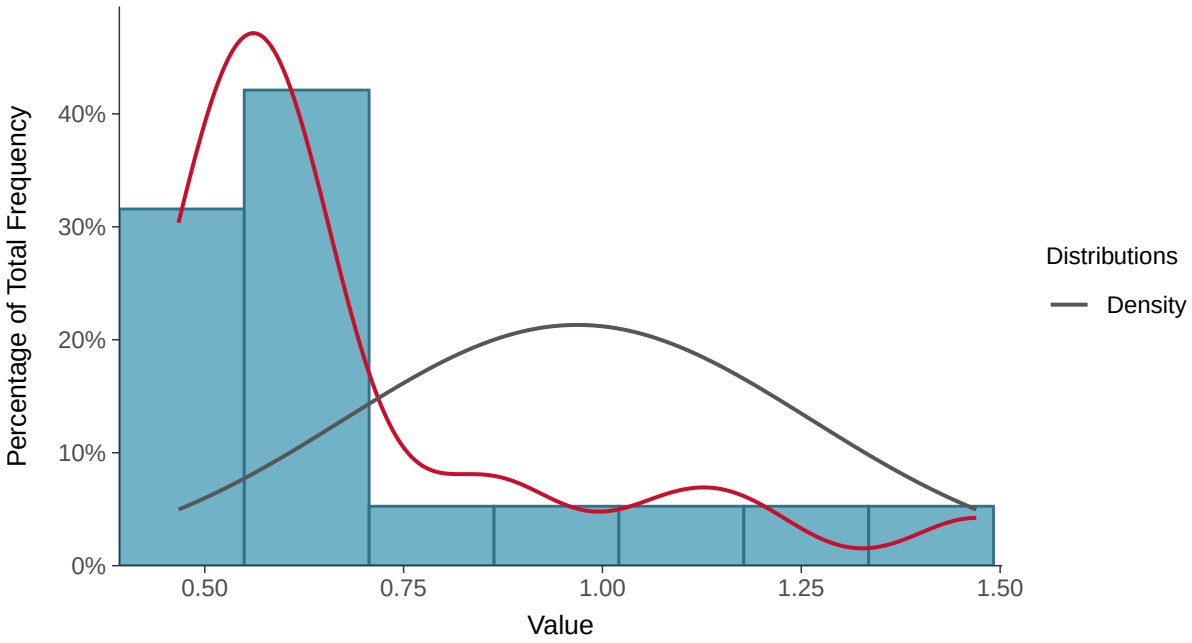
Scatter Plot

Radium 226 and 228, MW-20 (pCi/L)



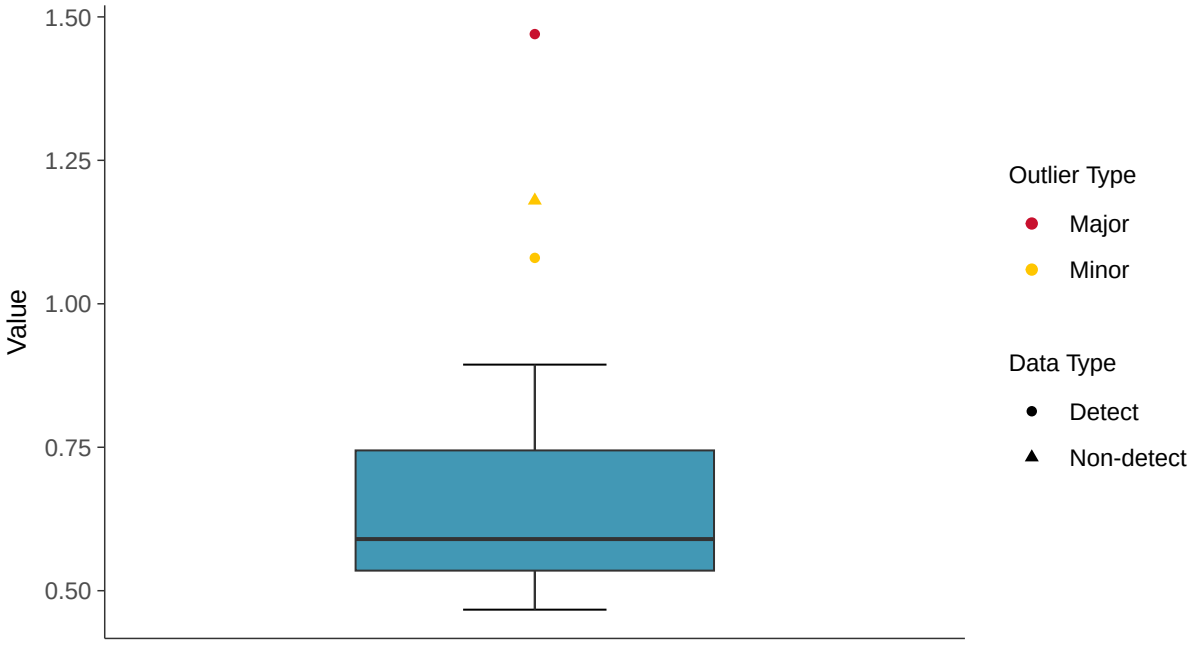
Histogram

Radium 226 and 228, MW-20 (pCi/L)



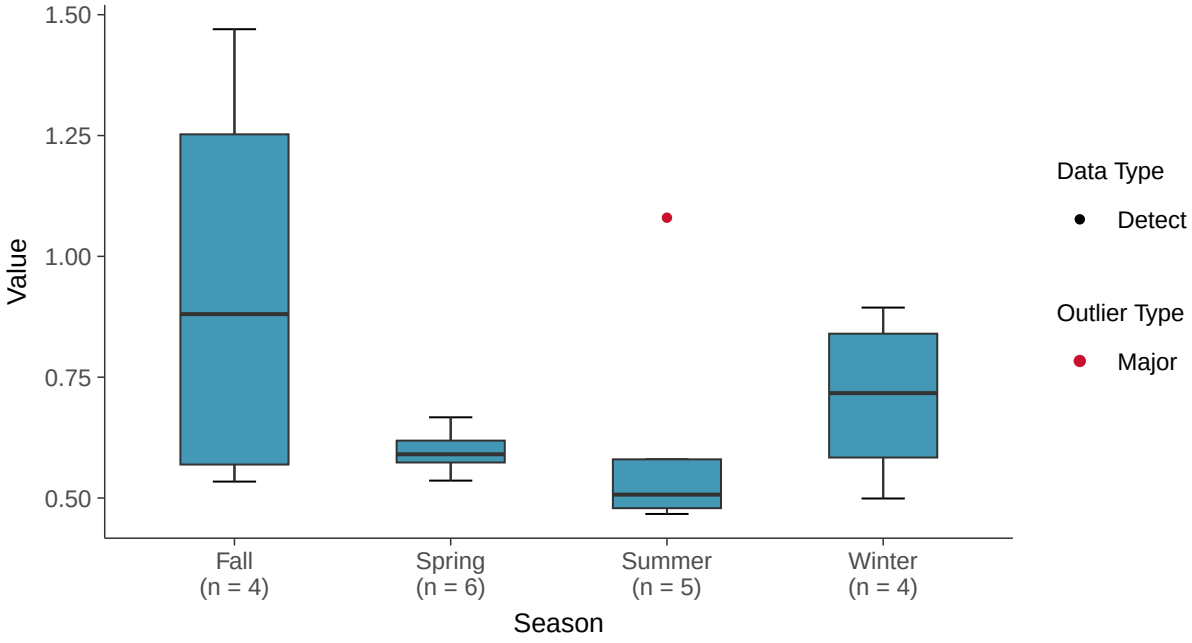
Boxplot

Radium 226 and 228, MW-20 (pCi/L)



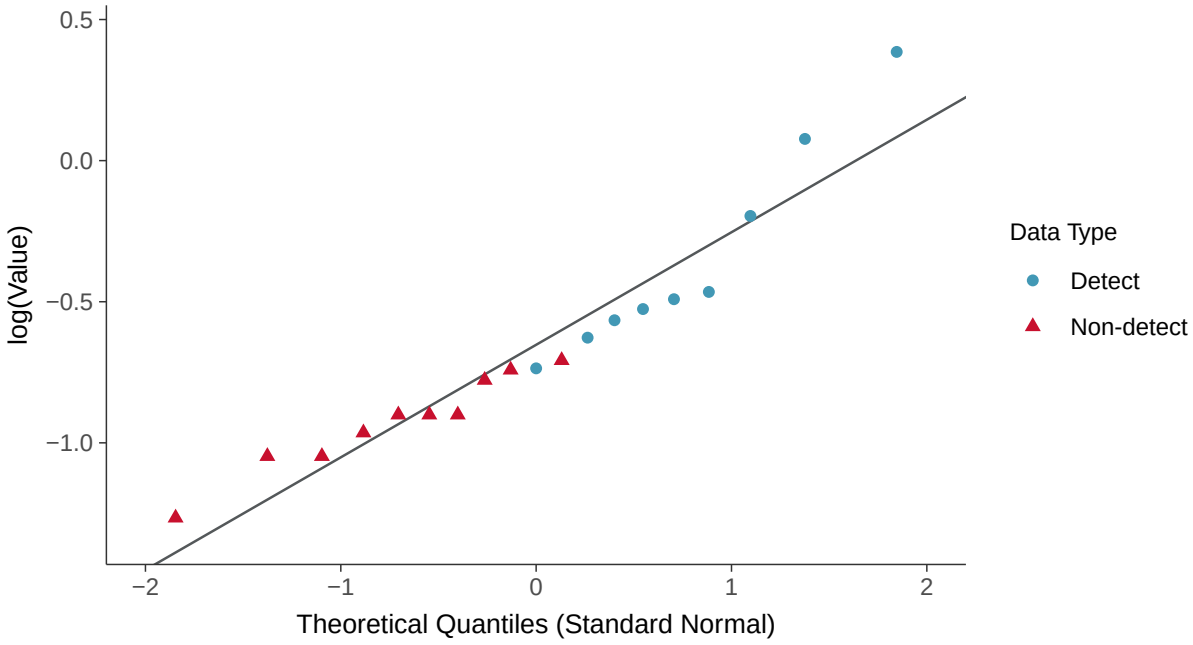
Boxplot by Season

Radium 226 and 228, MW-20 (pCi/L)



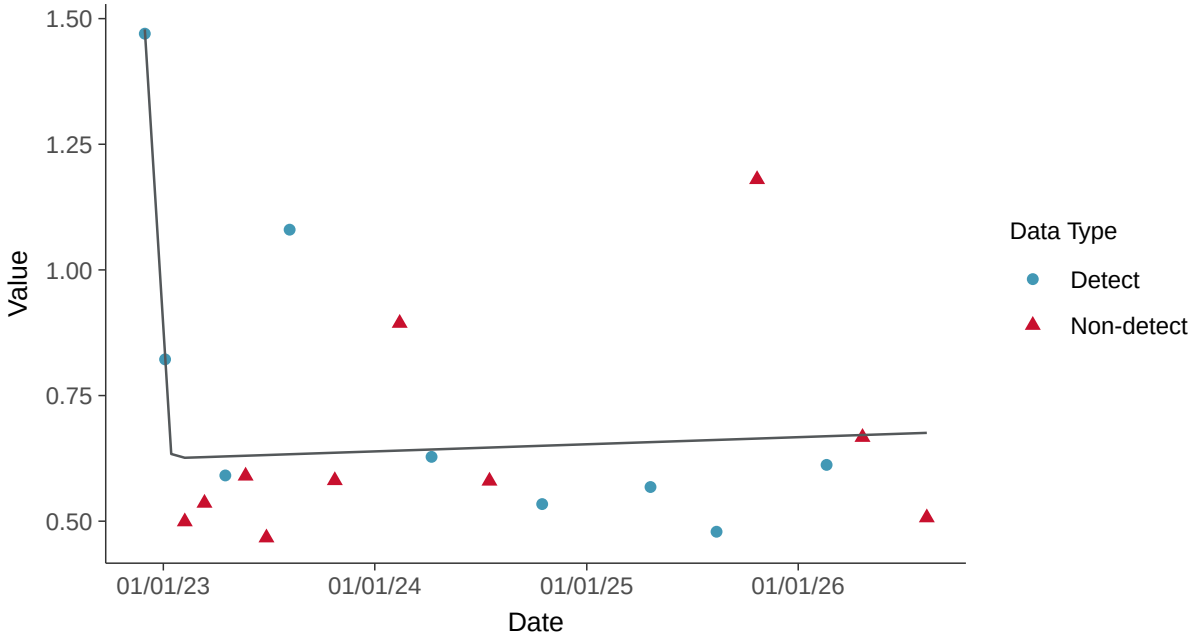
Lognormal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-20 (pCi/L)



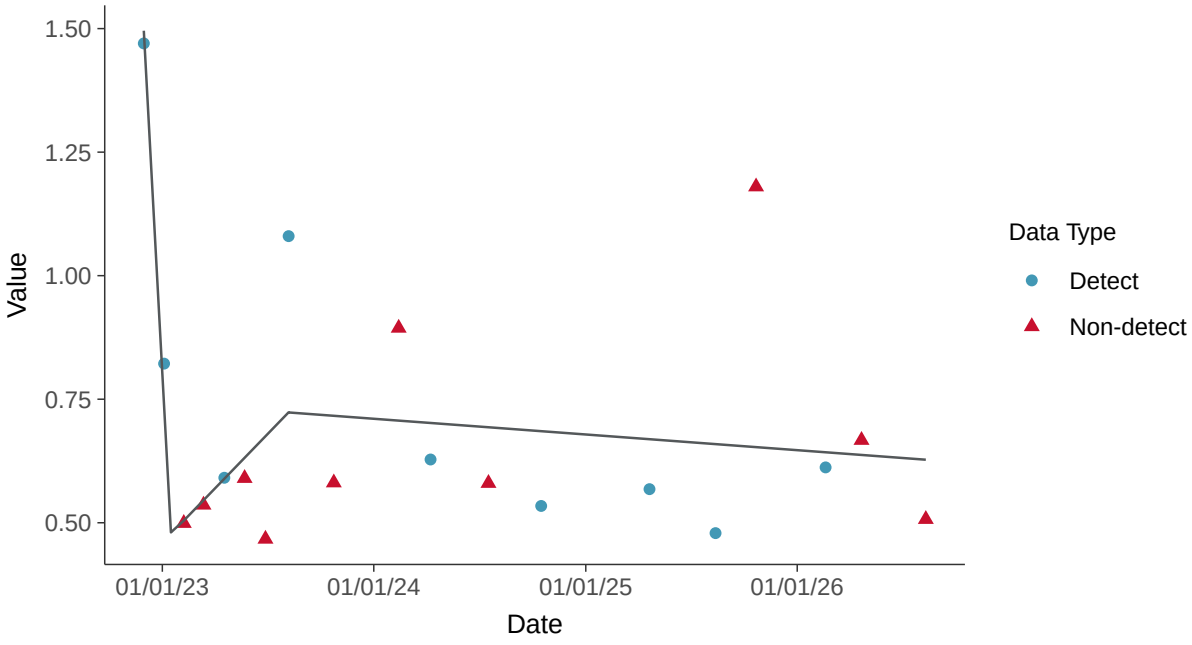
Trend Regression: Piecewise Linear-Linear

Radium 226 and 228, MW-20 (pCi/L)



Trend Regression: Piecewise Linear-Linear-Linear

Radium 226 and 228, MW-20 (pCi/L)

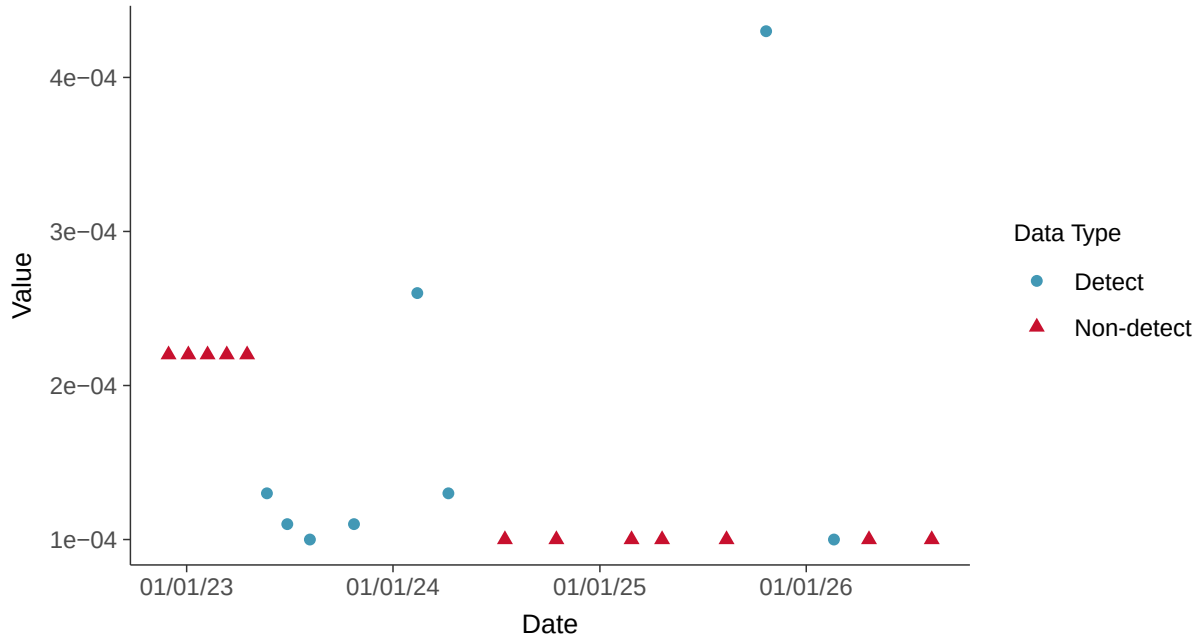


Appendix IV: Selenium, MW-20

ID: 30_1_4_122

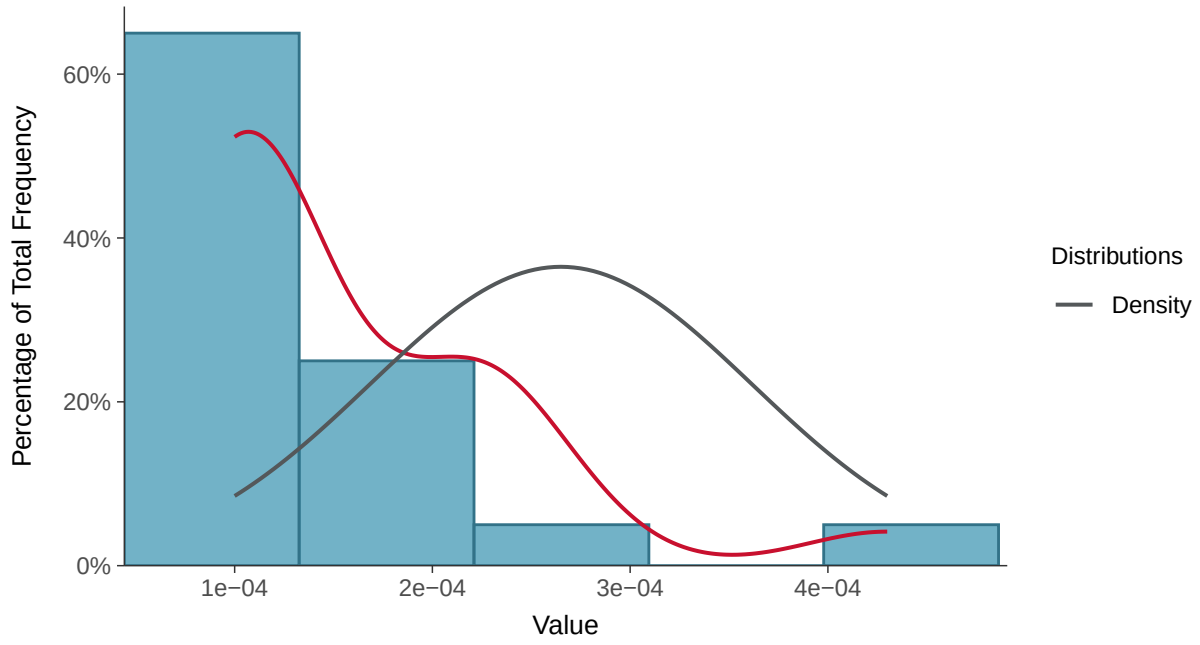
Scatter Plot

Selenium, MW-20 (mg/L)



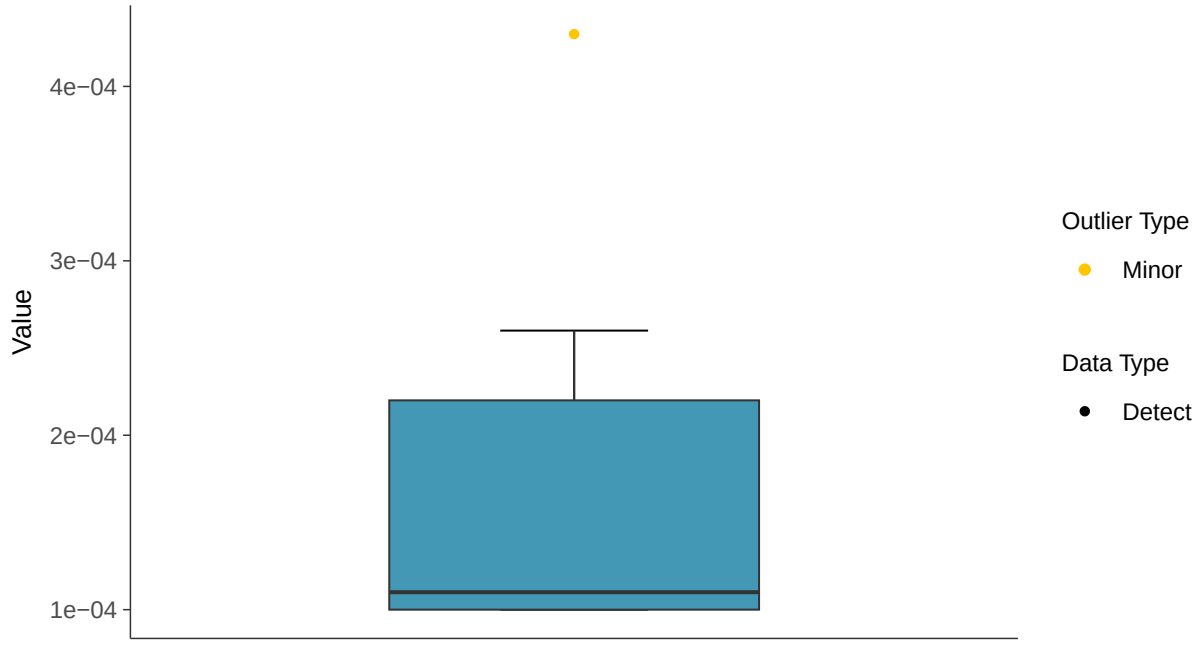
Histogram

Selenium, MW-20 (mg/L)



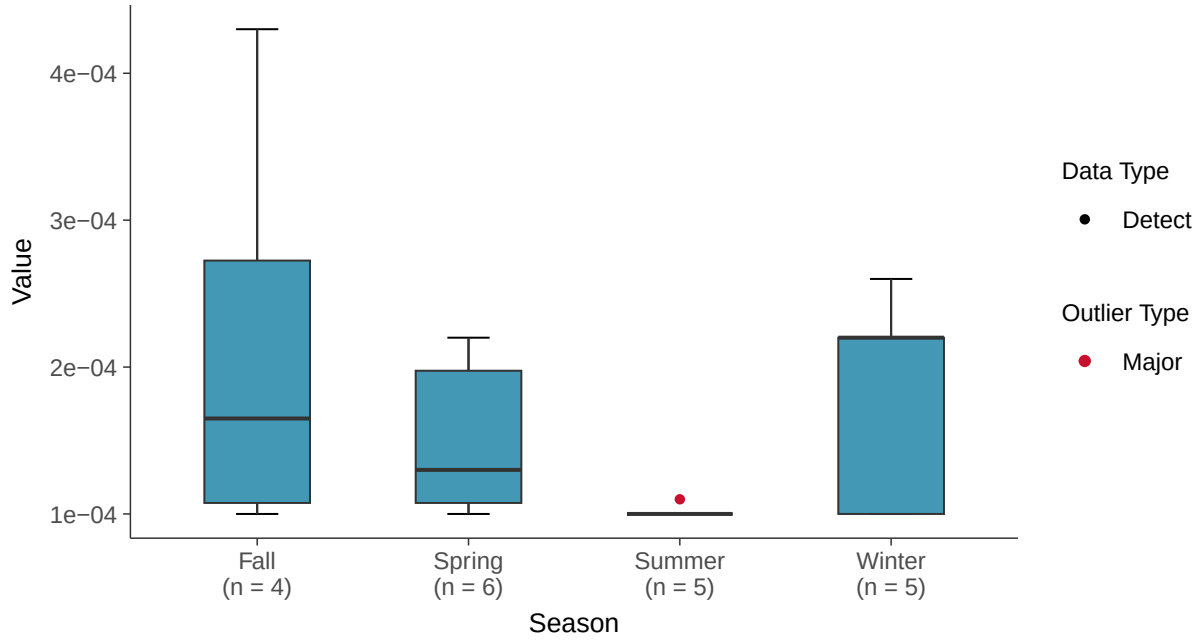
Boxplot

Selenium, MW-20 (mg/L)



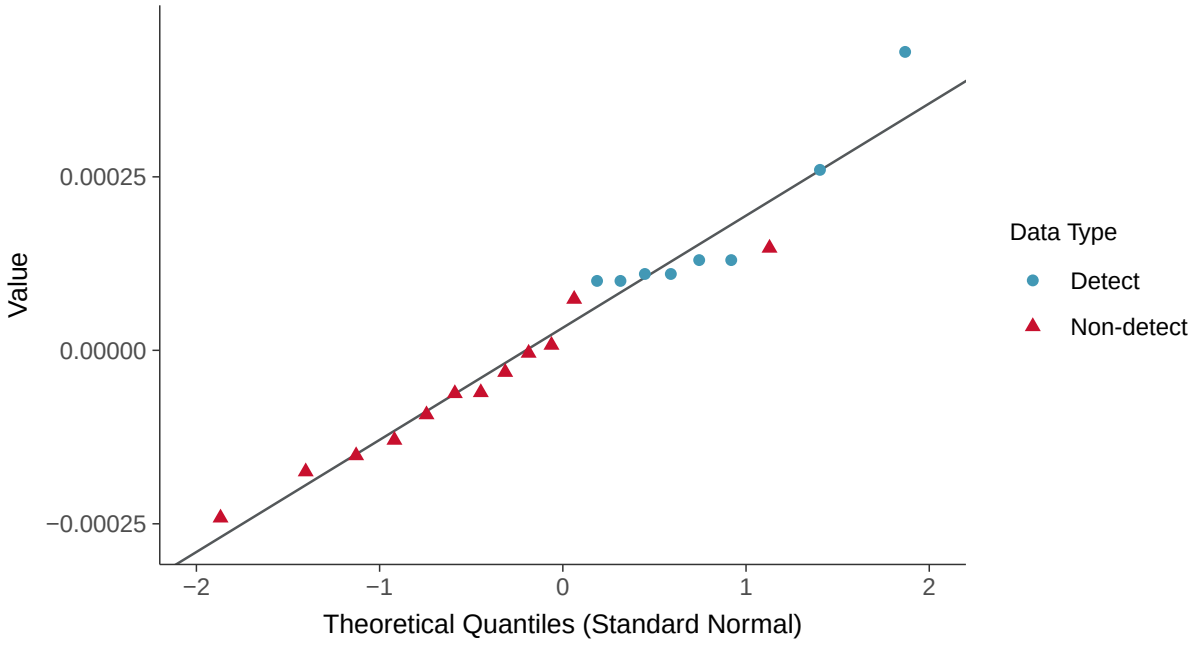
Boxplot by Season

Selenium, MW-20 (mg/L)



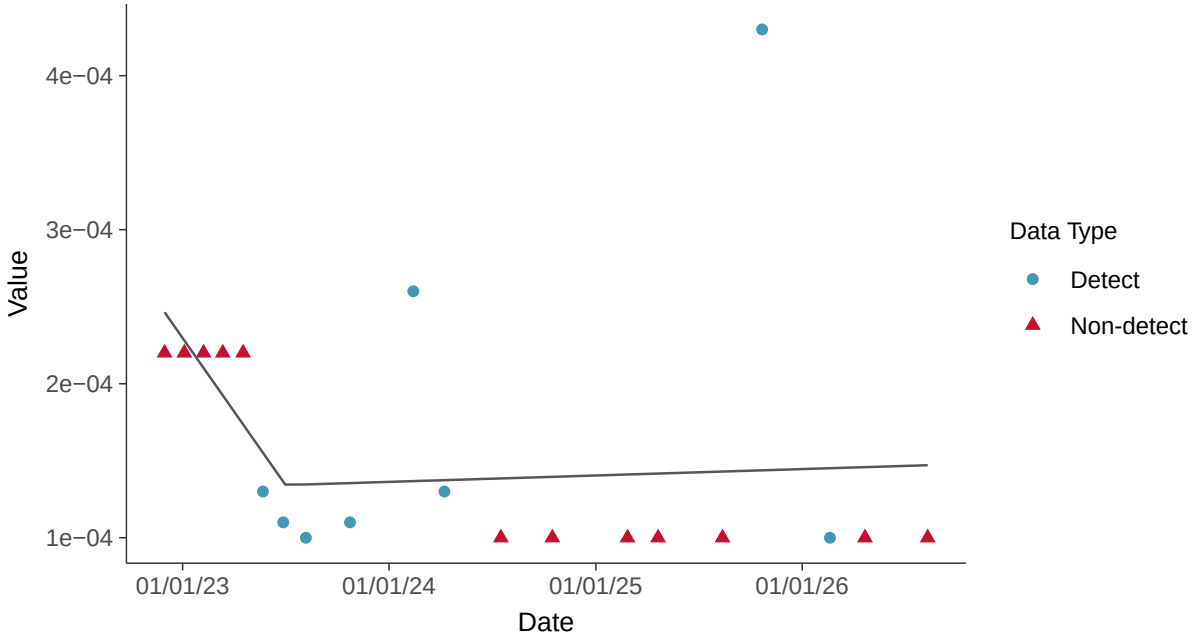
Normal Q-Q plot using ROS Imputed Estimates

Selenium, MW-20 (mg/L)



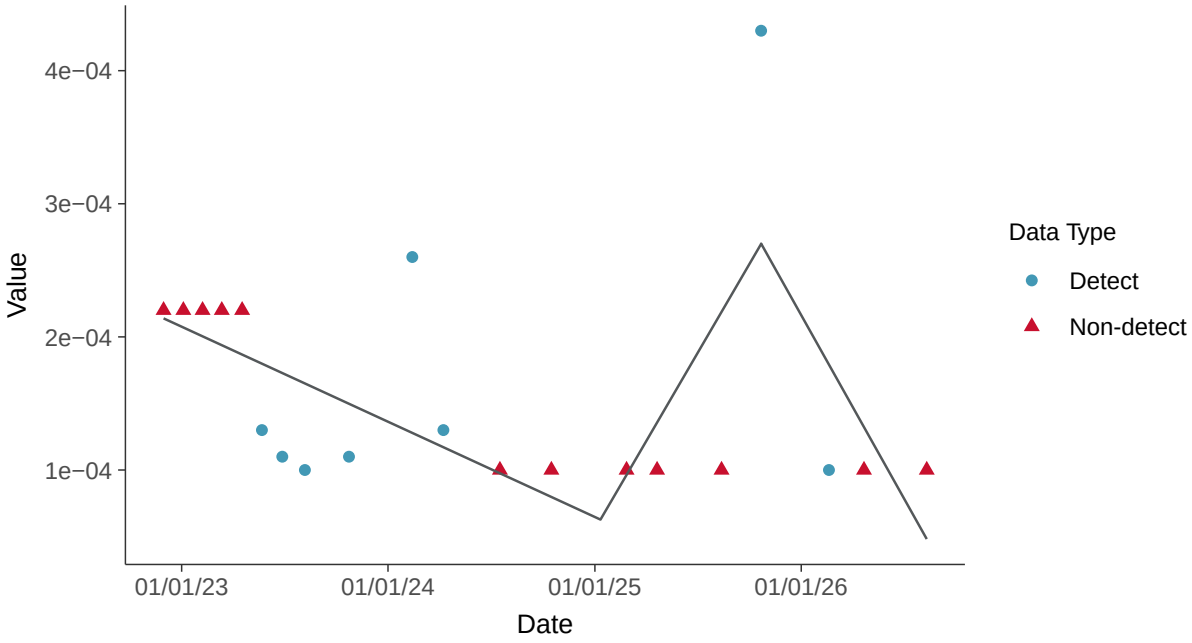
Trend Regression: Piecewise Linear-Linear

Selenium, MW-20 (mg/L)



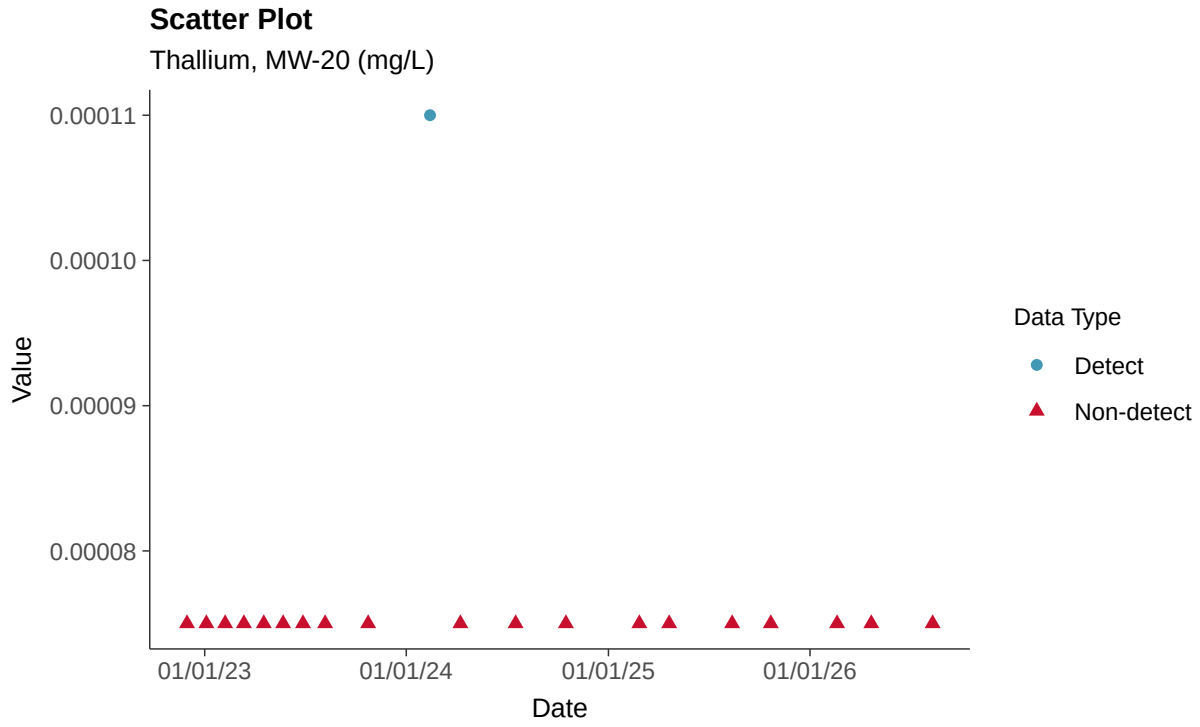
Trend Regression: Piecewise Linear-Linear-Linear

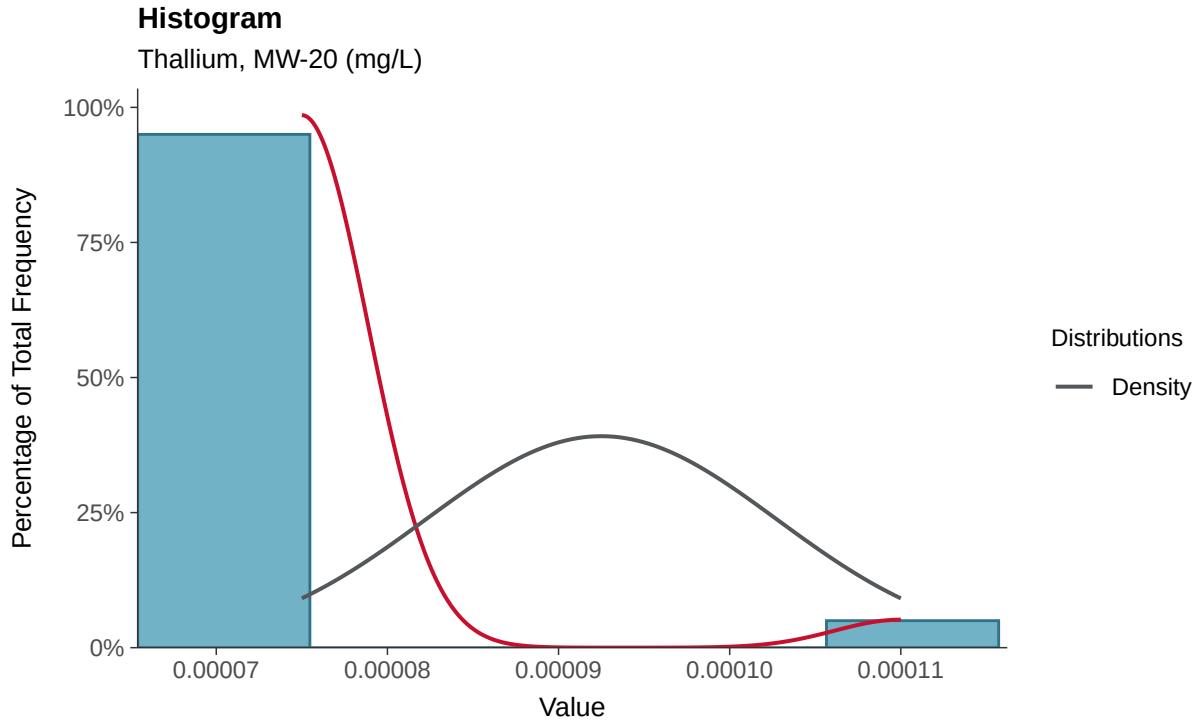
Selenium, MW-20 (mg/L)



Appendix IV: Thallium, MW-20

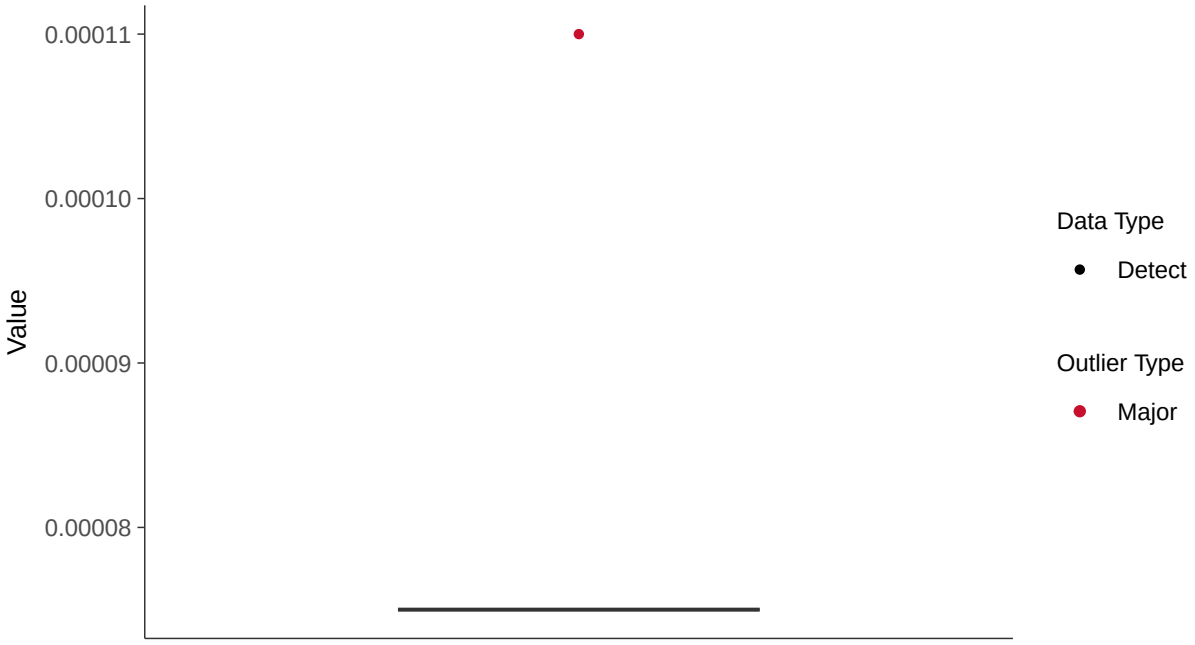
ID: 30_1_4_125





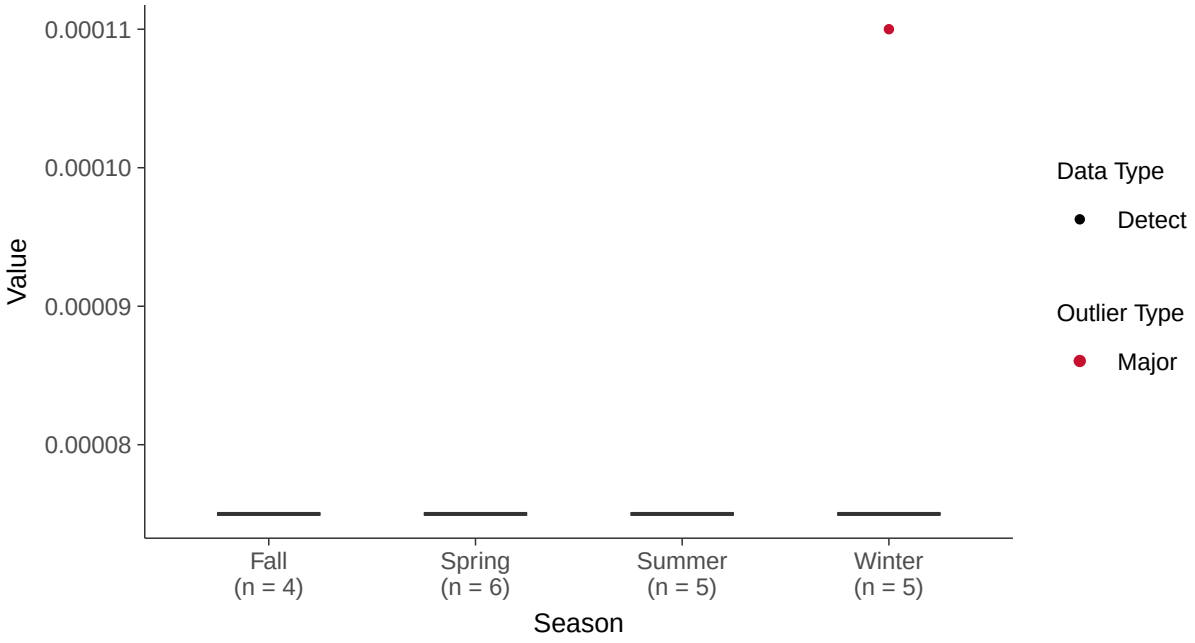
Boxplot

Thallium, MW-20 (mg/L)



Boxplot by Season

Thallium, MW-20 (mg/L)

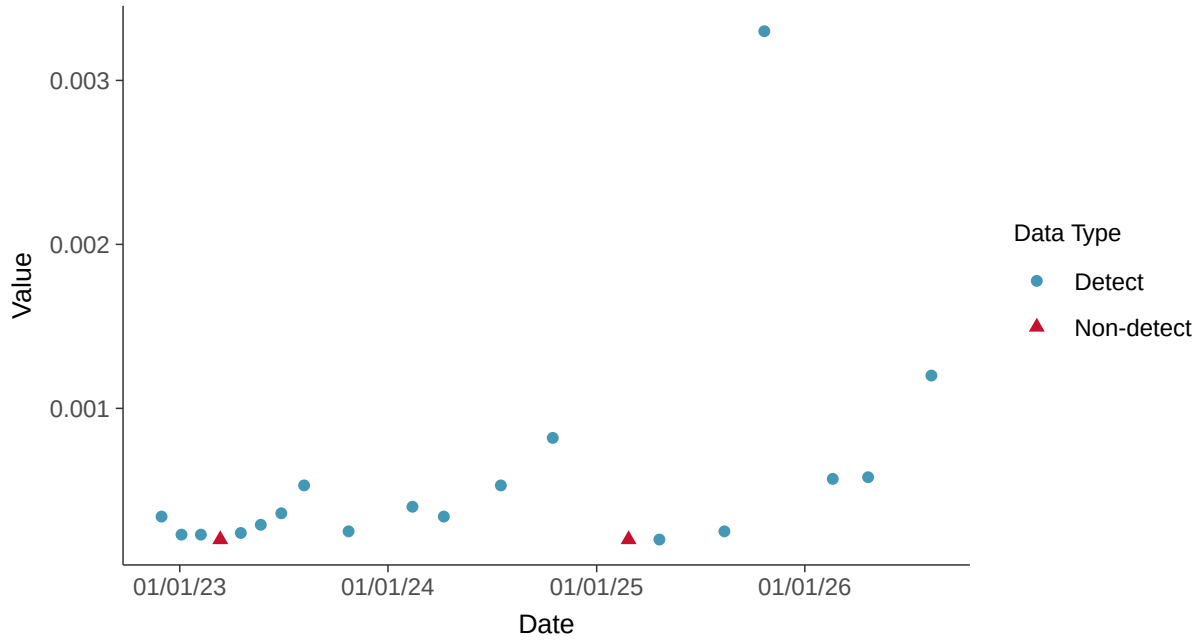


Part 115: Copper, MW-20

ID: 30_1_5_111

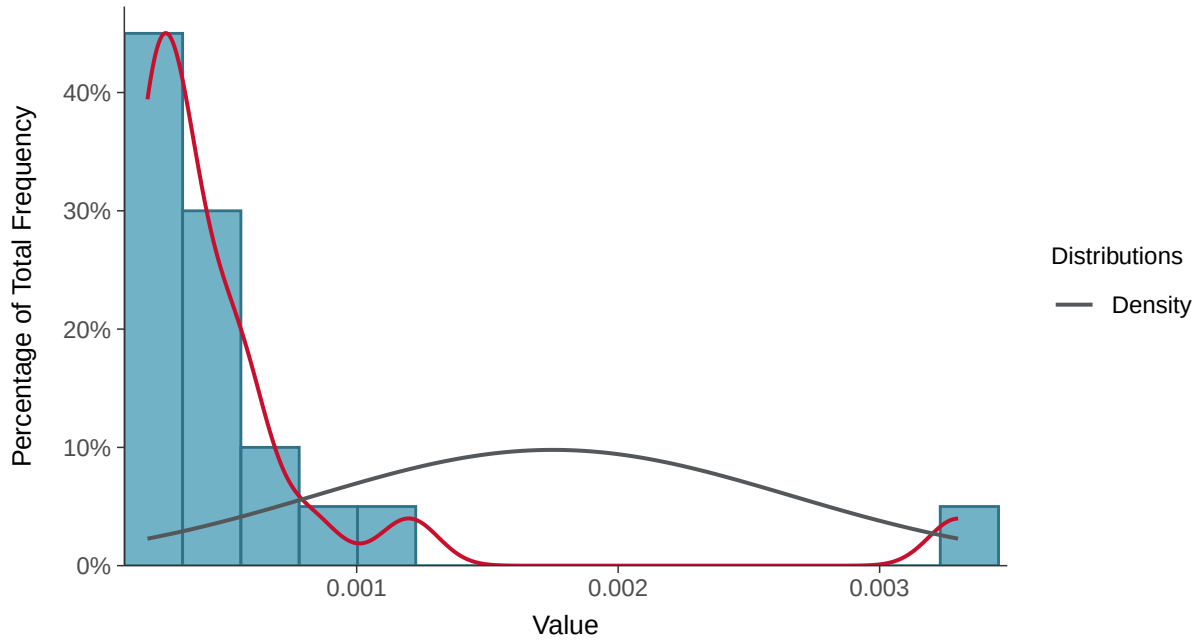
Scatter Plot

Copper, MW-20 (mg/L)



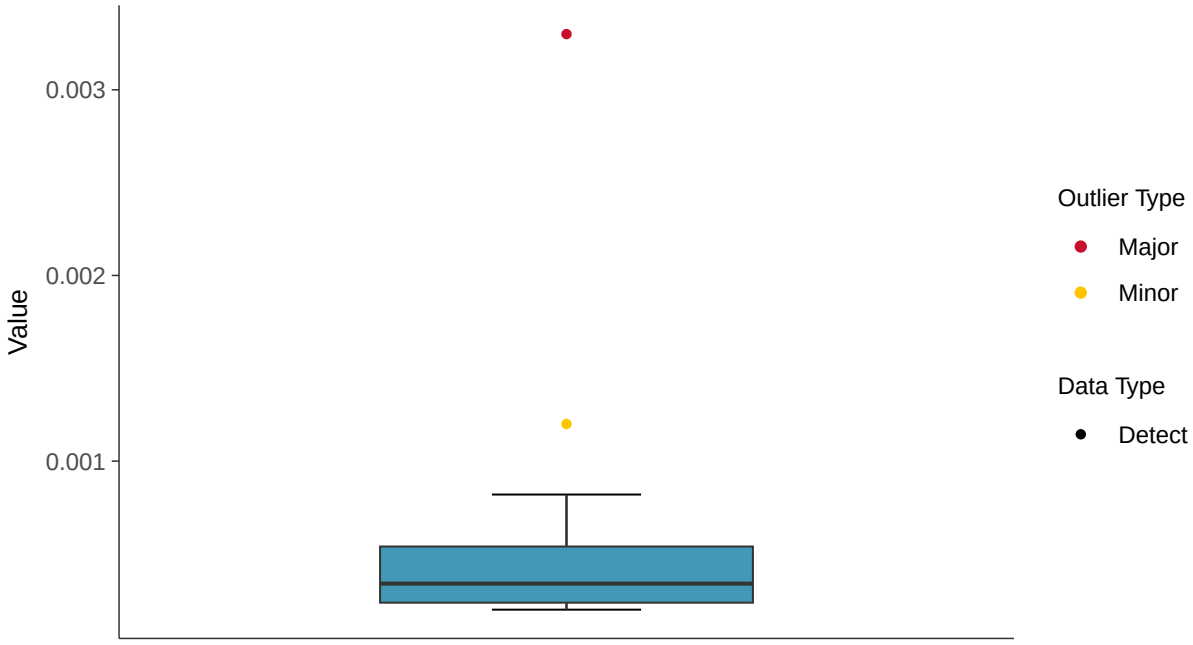
Histogram

Copper, MW-20 (mg/L)



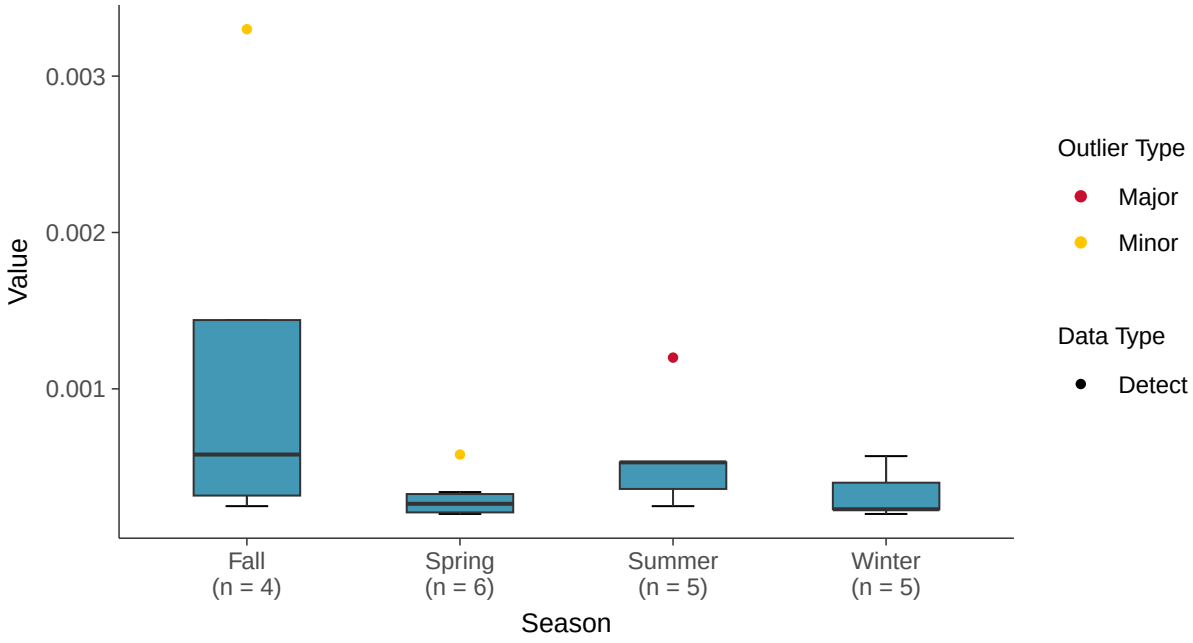
Boxplot

Copper, MW-20 (mg/L)



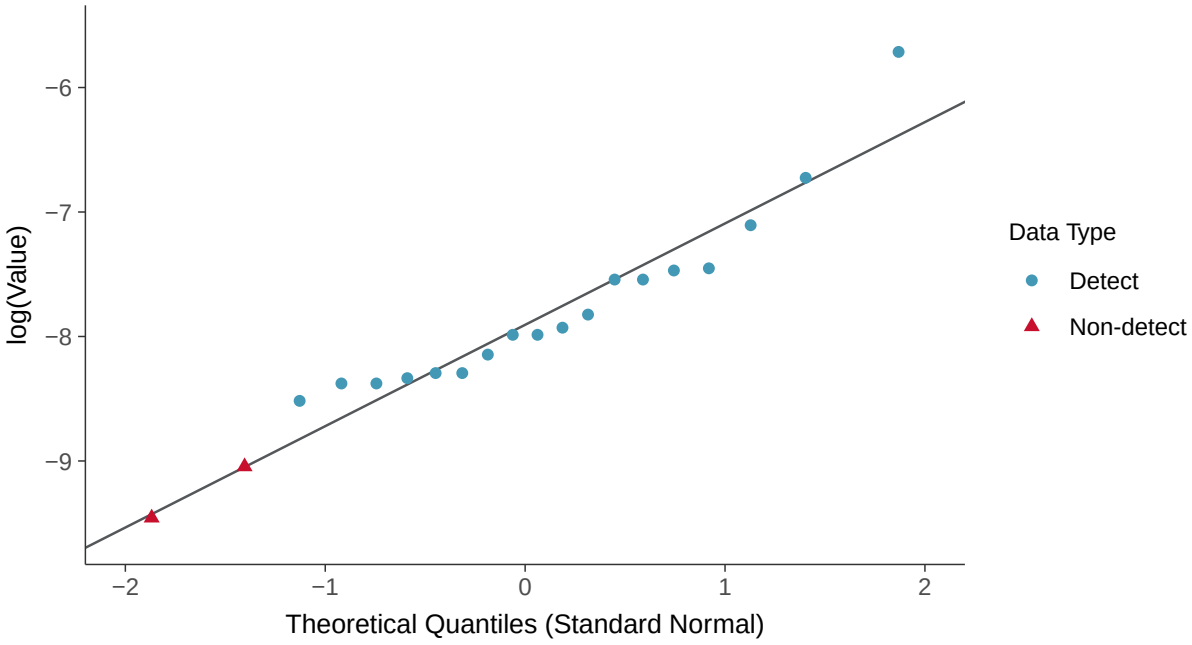
Boxplot by Season

Copper, MW-20 (mg/L)



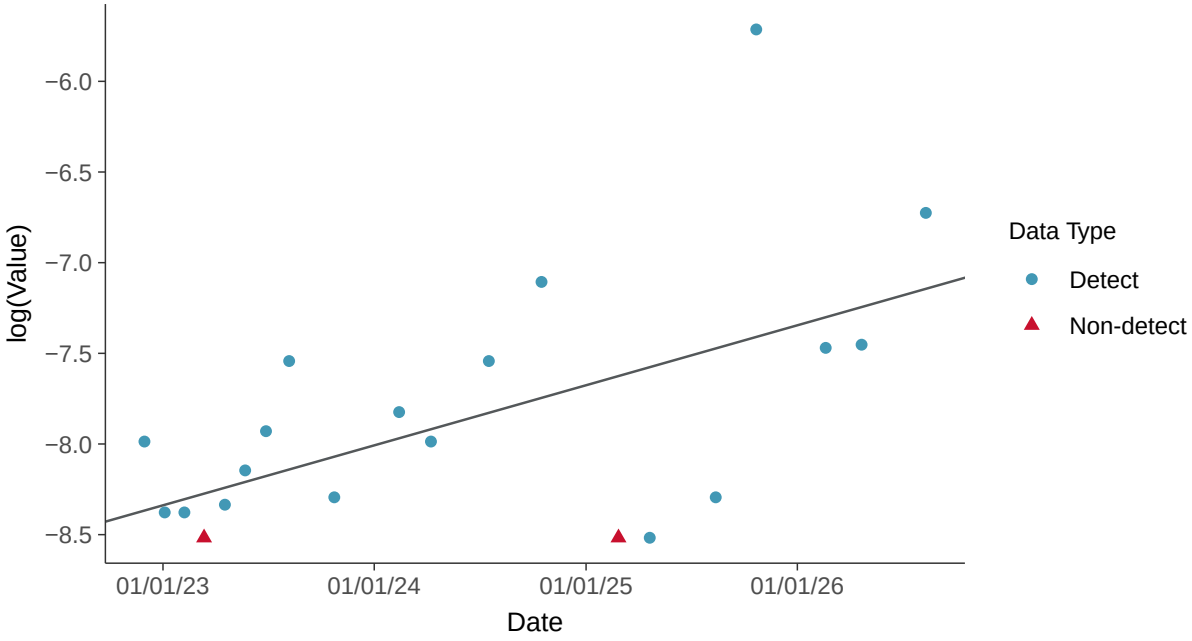
Lognormal Q-Q plot using ROS Imputed Estimates

Copper, MW-20 (mg/L)



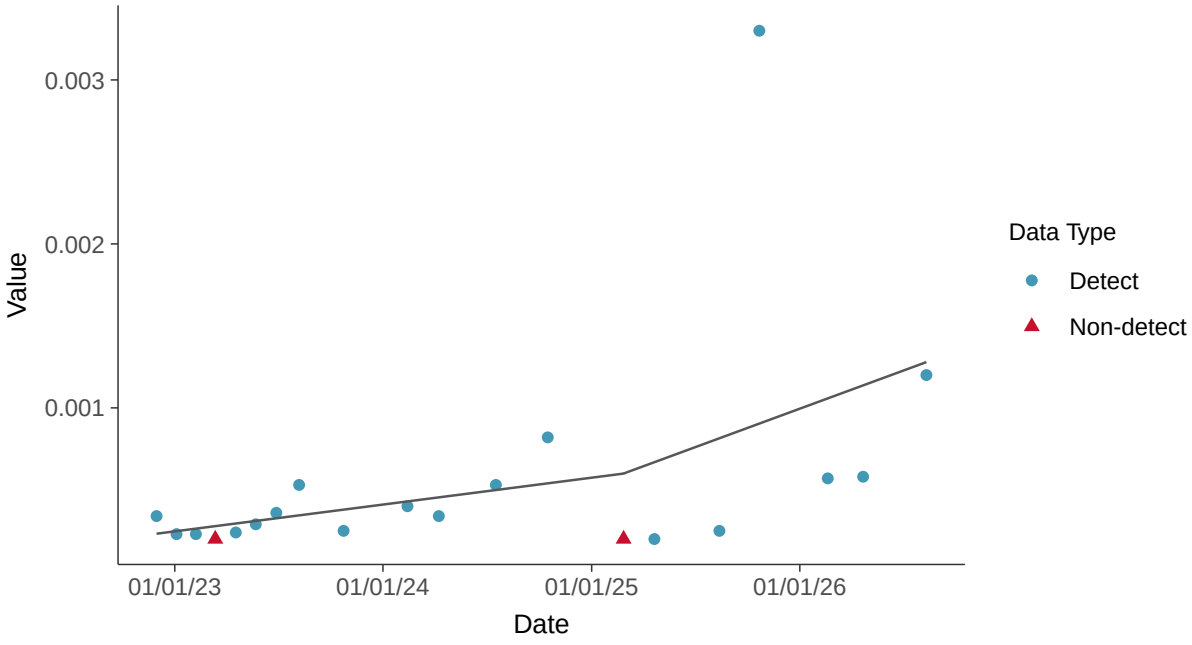
Trend Regression: Lognormal MLE

Copper, MW-20 (mg/L)



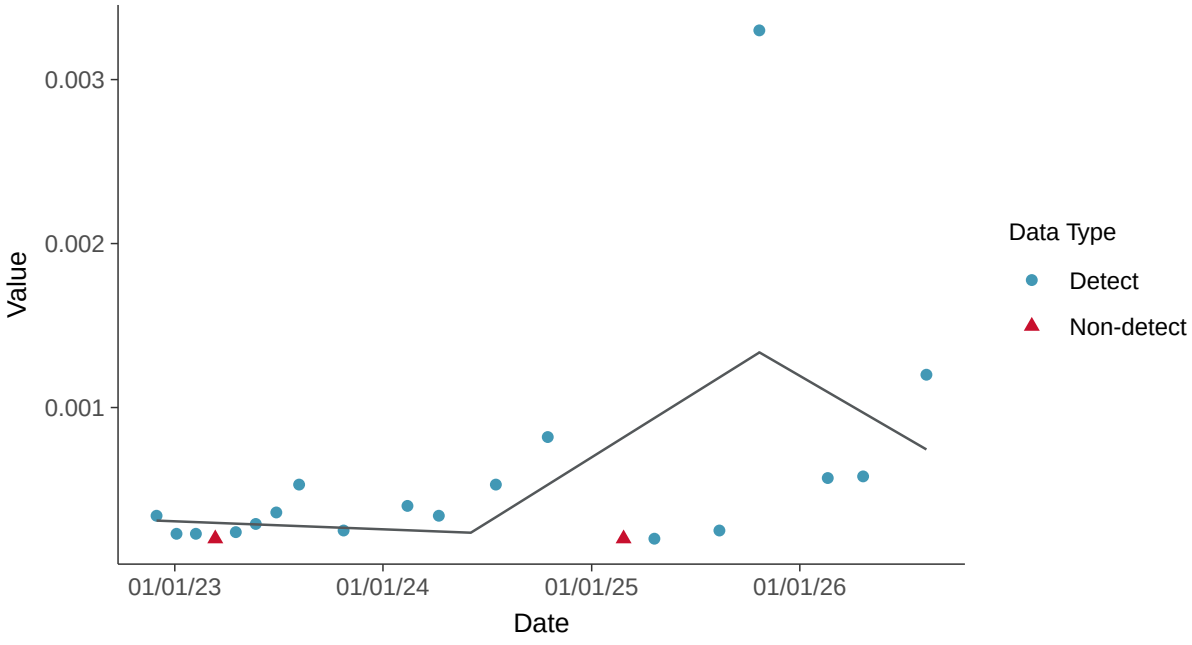
Trend Regression: Piecewise Linear-Linear

Copper, MW-20 (mg/L)



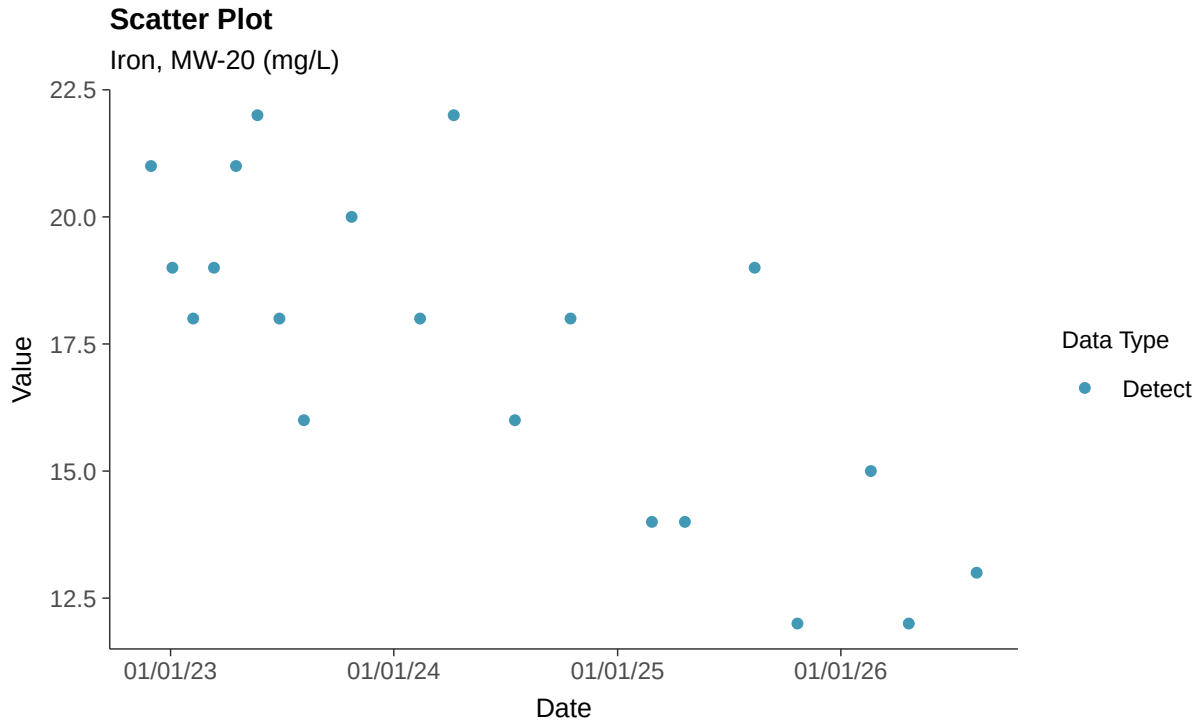
Trend Regression: Piecewise Linear-Linear-Linear

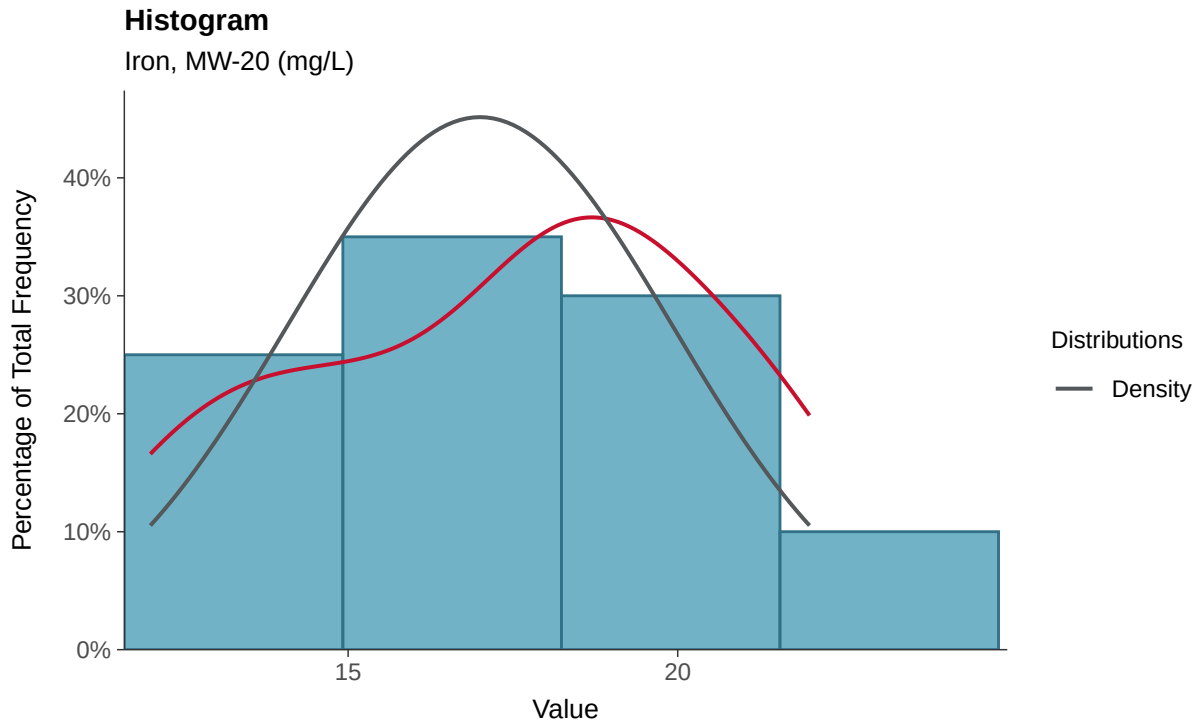
Copper, MW-20 (mg/L)



Part 115: Iron, MW-20

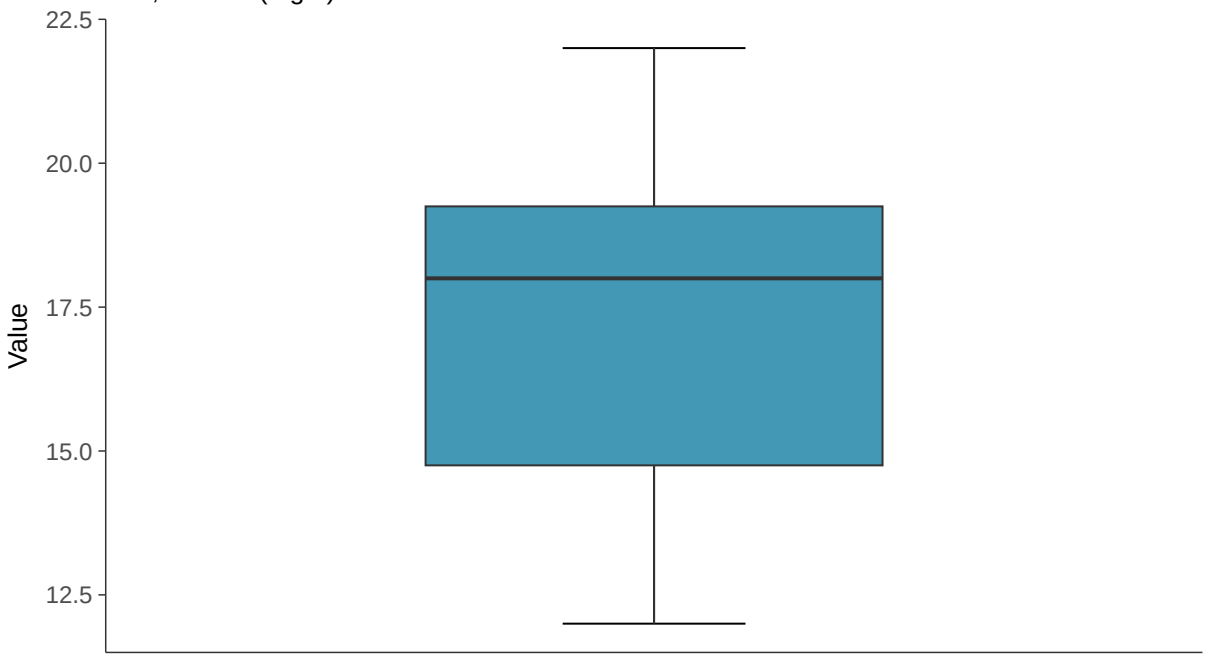
ID: 30_1_5_114





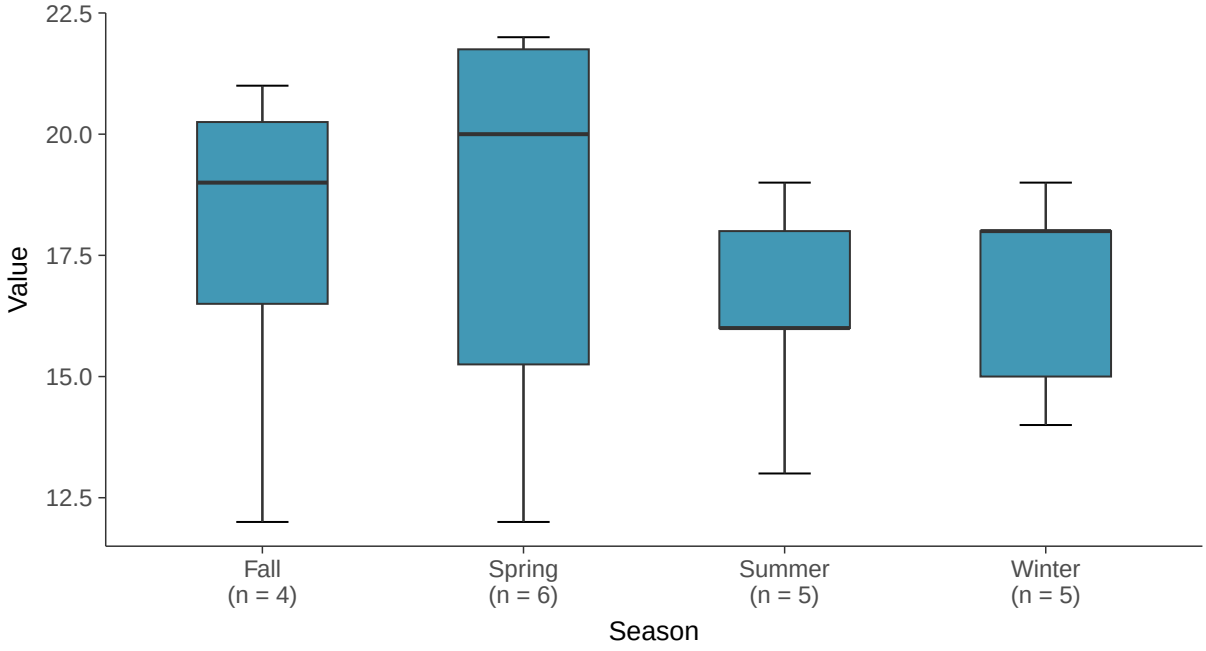
Boxplot

Iron, MW-20 (mg/L)



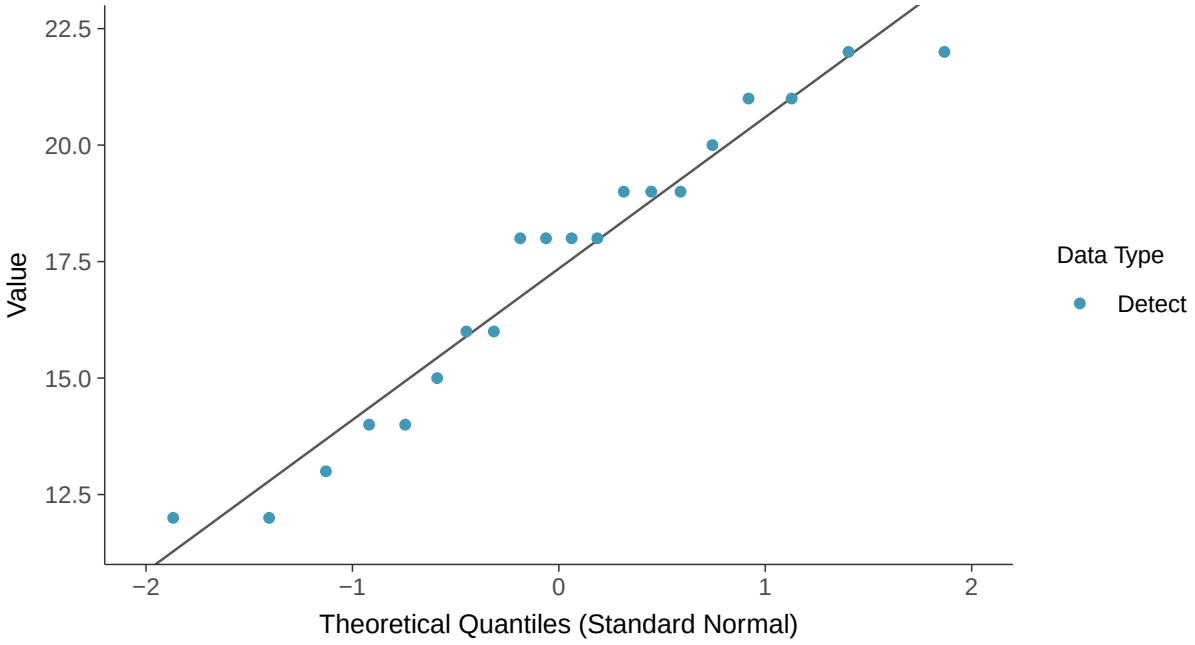
Boxplot by Season

Iron, MW-20 (mg/L)



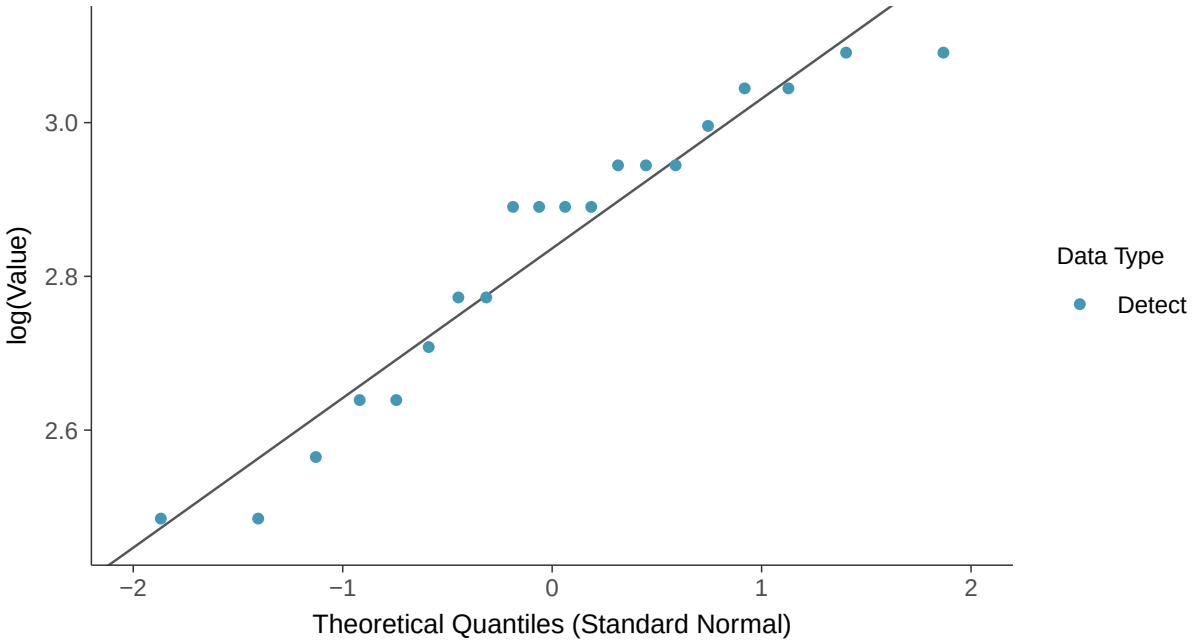
Normal Q-Q plot

Iron, MW-20 (mg/L)



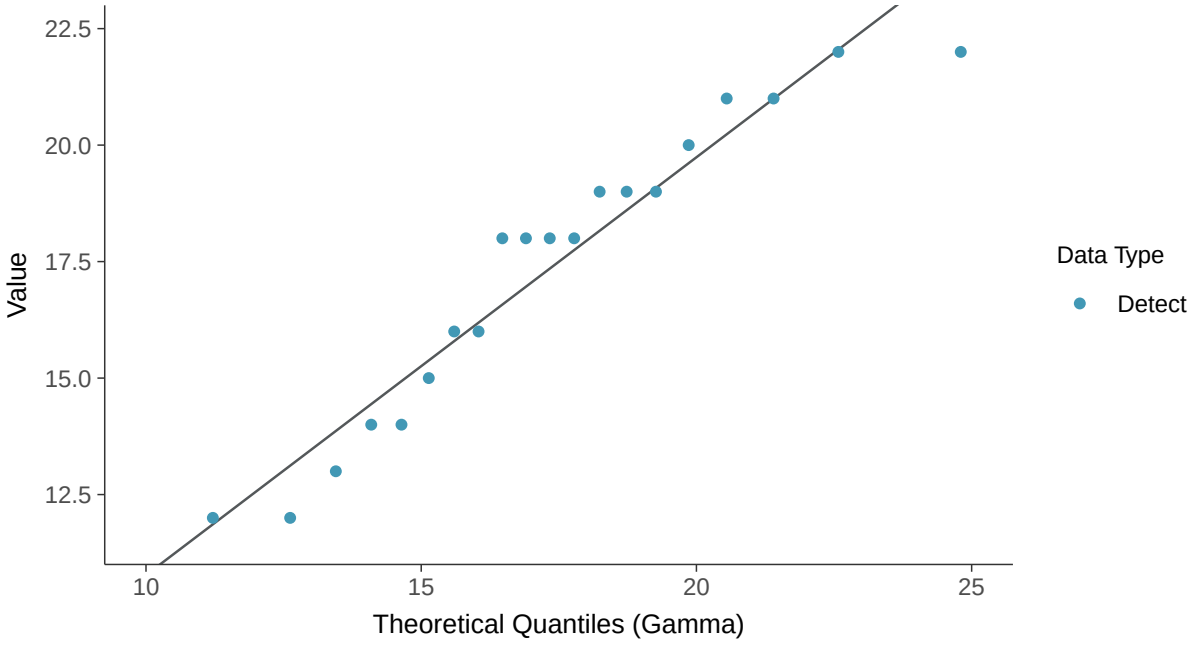
Lognormal Q-Q plot

Iron, MW-20 (mg/L)



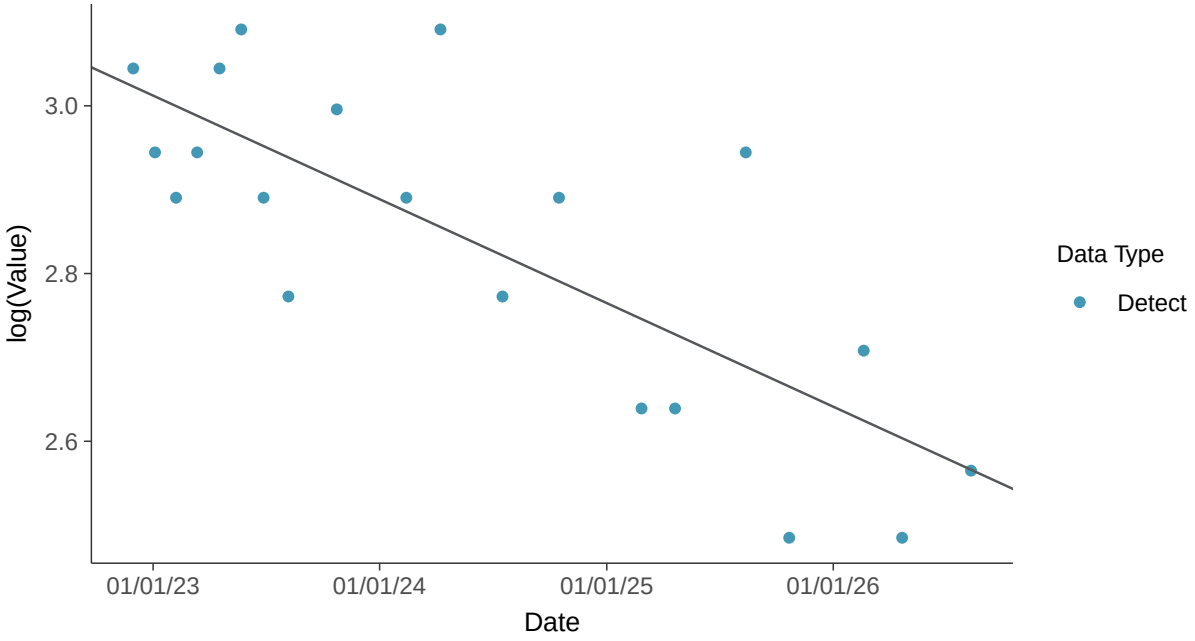
Gamma Q-Q plot

Iron, MW-20 (mg/L)



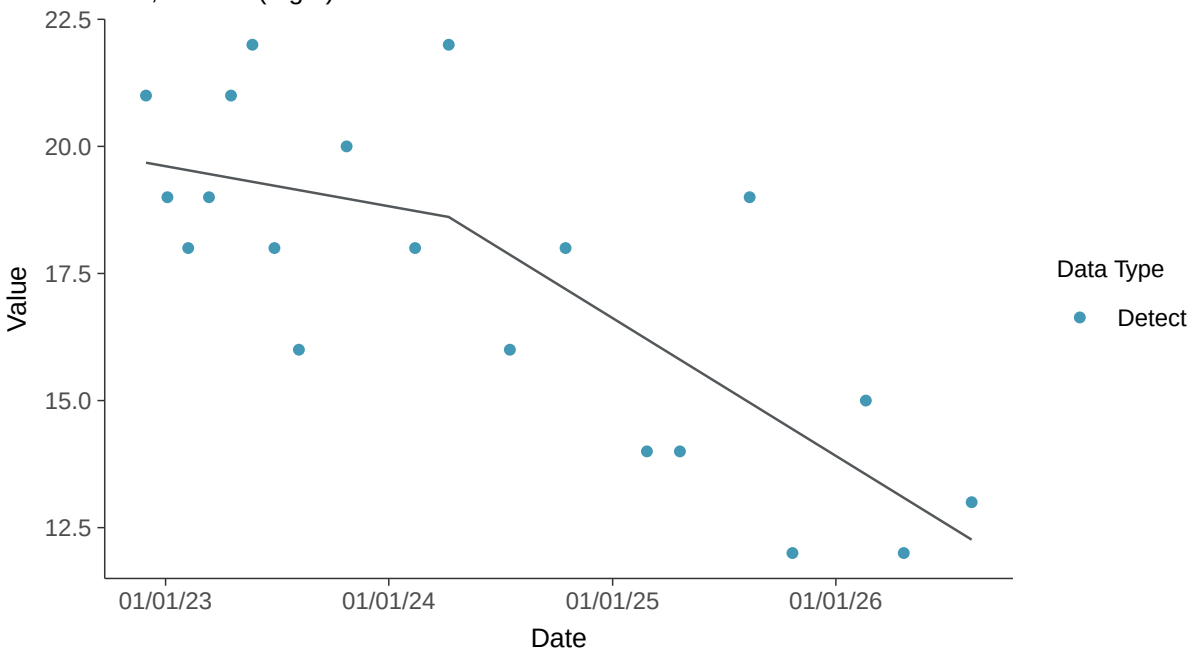
Trend Regression: Lognormal MLE

Iron, MW-20 (mg/L)



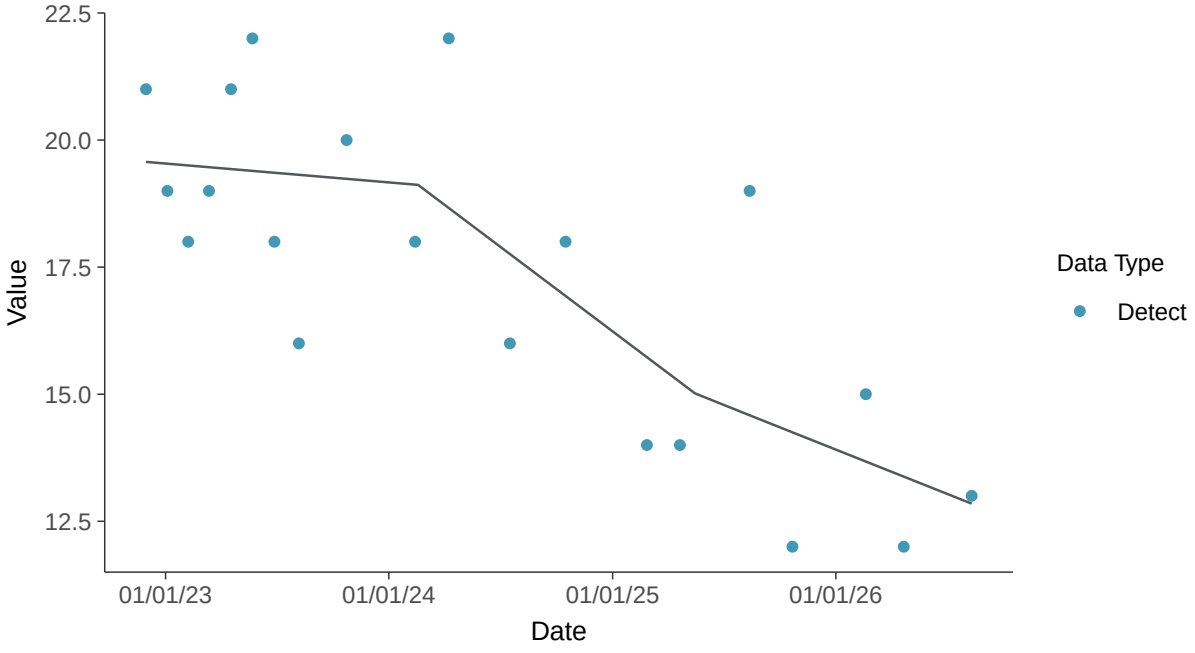
Trend Regression: Piecewise Linear-Linear

Iron, MW-20 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Iron, MW-20 (mg/L)

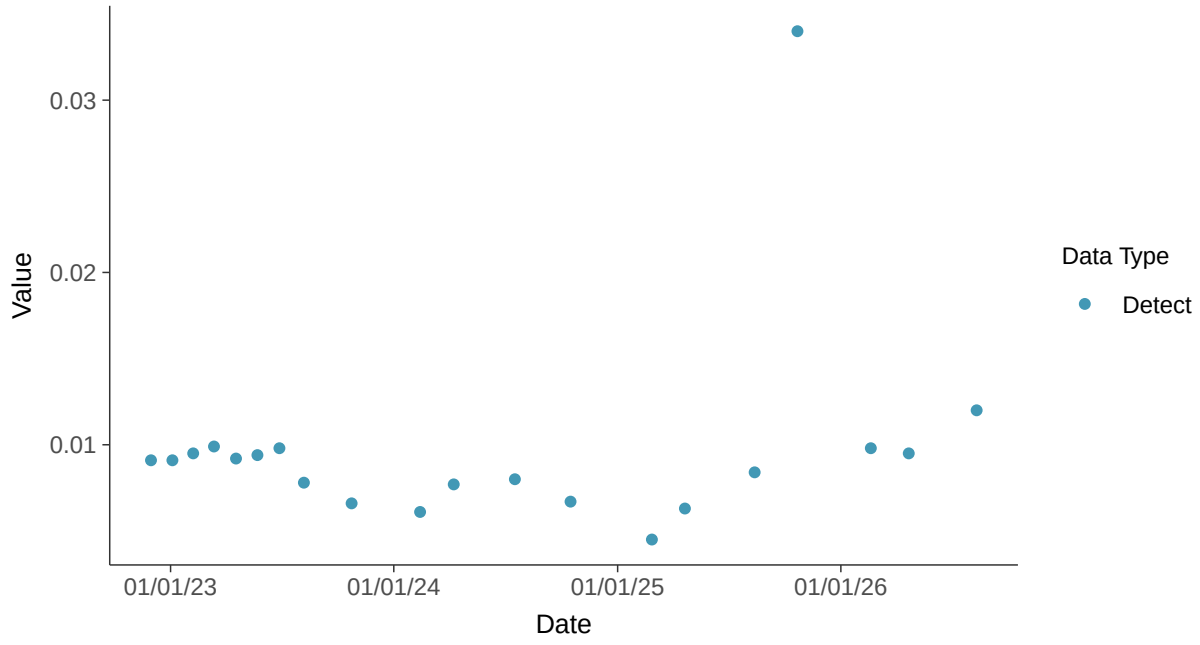


Part 115: Nickel, MW-20

ID: 30_1_5_119

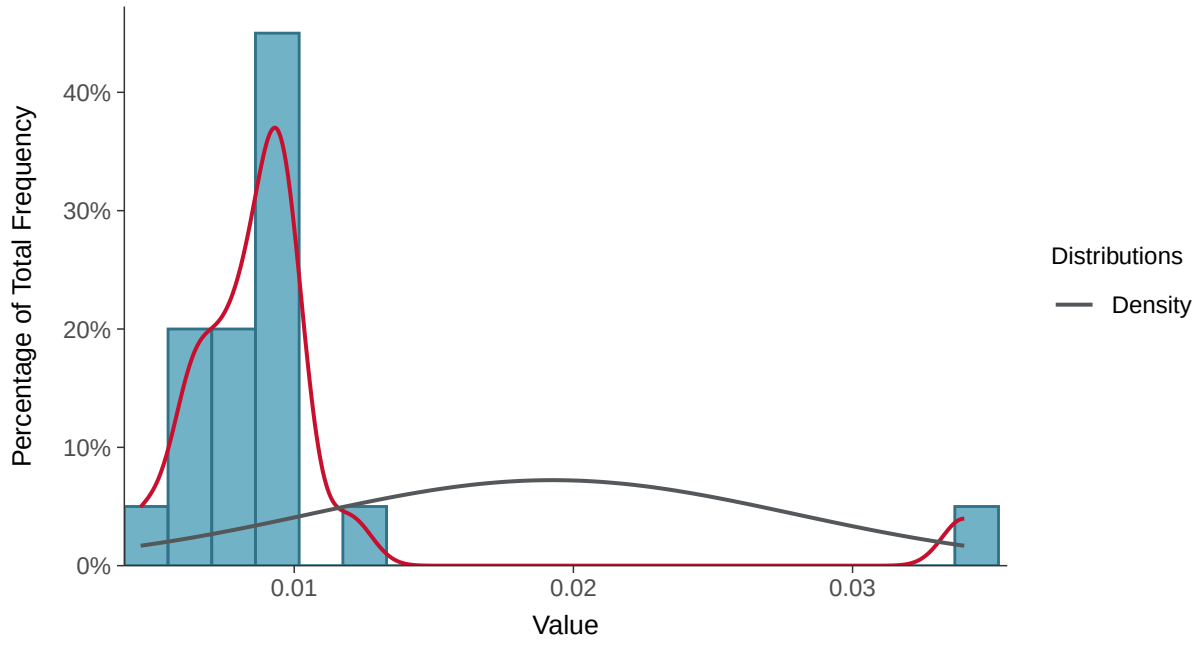
Scatter Plot

Nickel, MW-20 (mg/L)



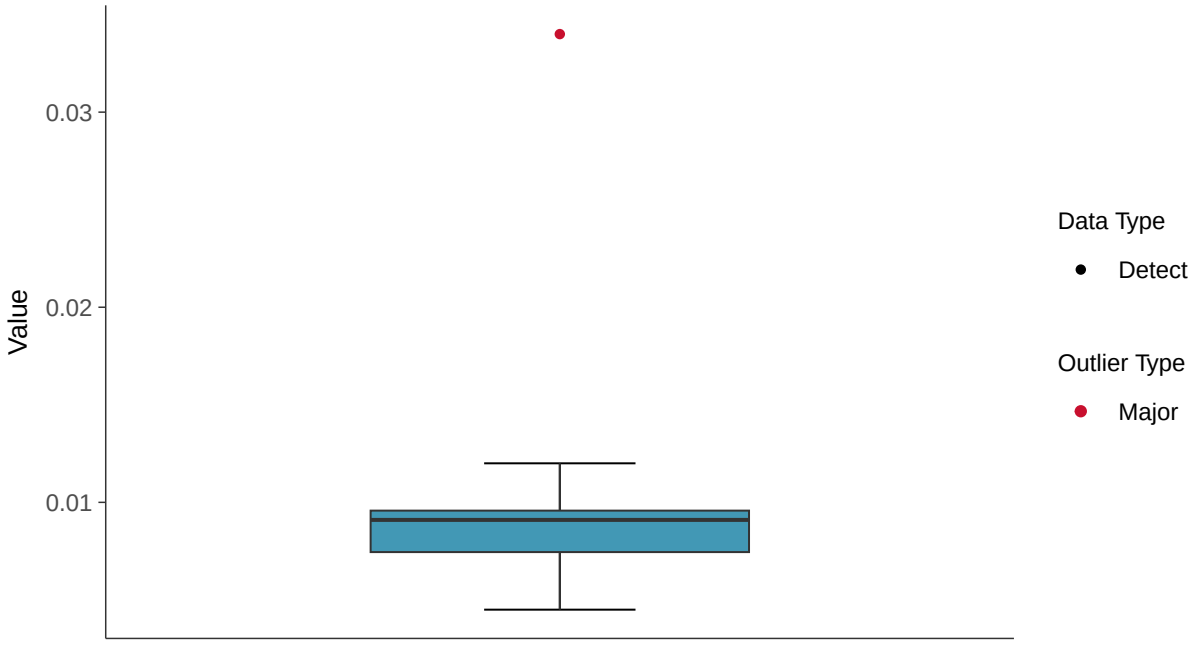
Histogram

Nickel, MW-20 (mg/L)



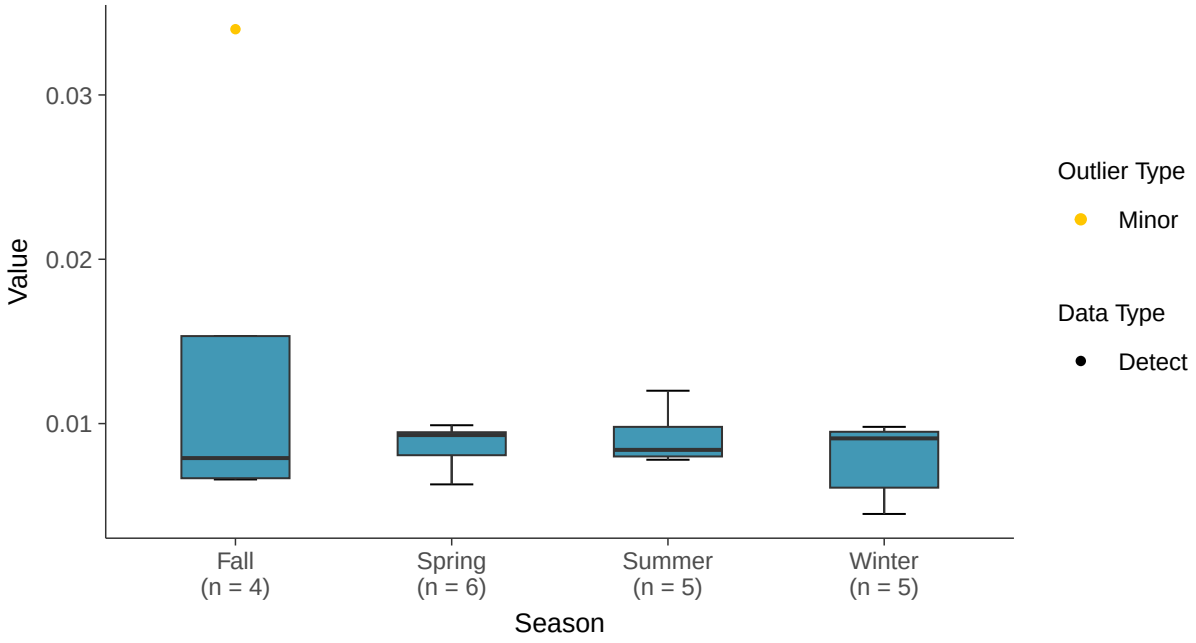
Boxplot

Nickel, MW-20 (mg/L)



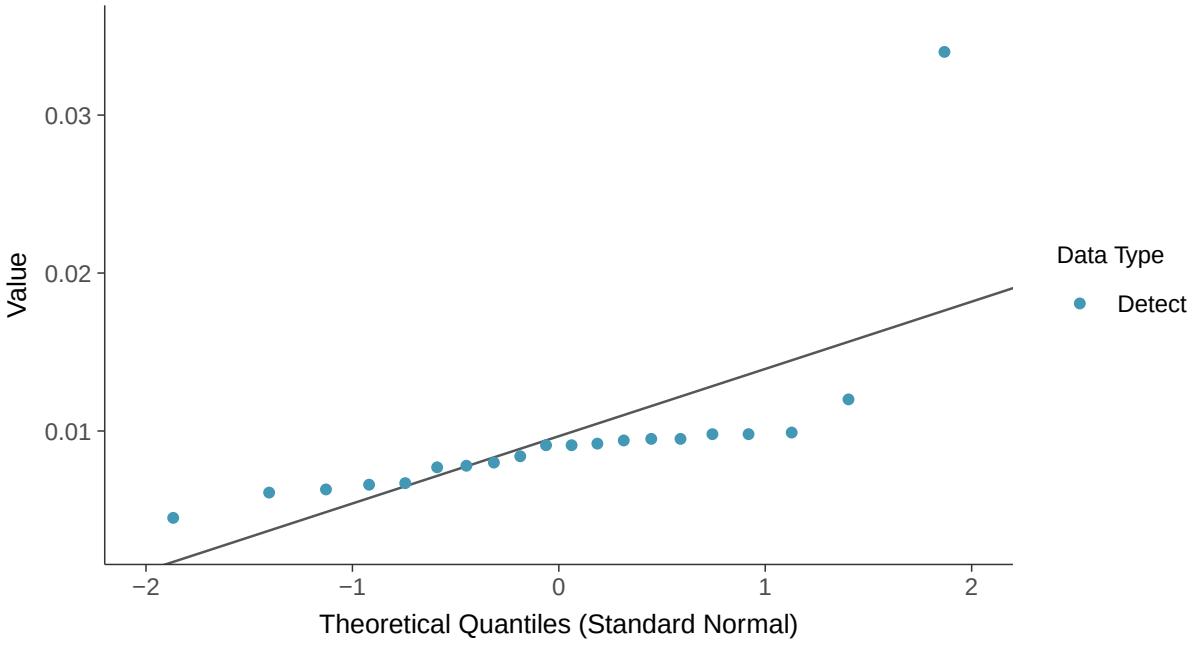
Boxplot by Season

Nickel, MW-20 (mg/L)



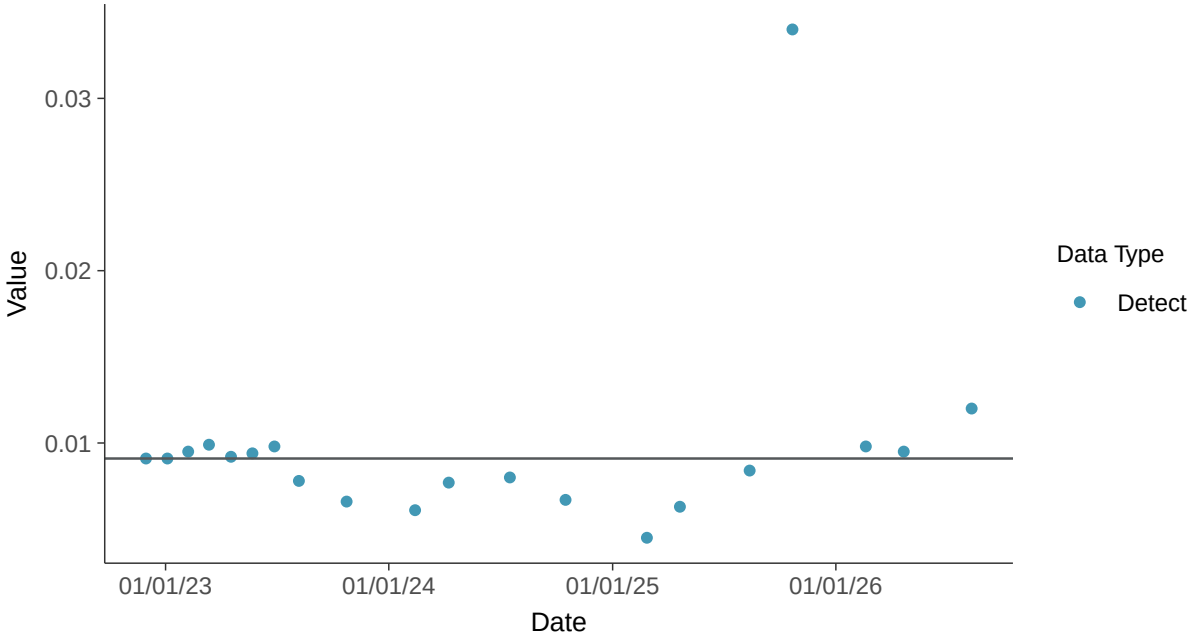
Normal Q-Q plot

Nickel, MW-20 (mg/L)



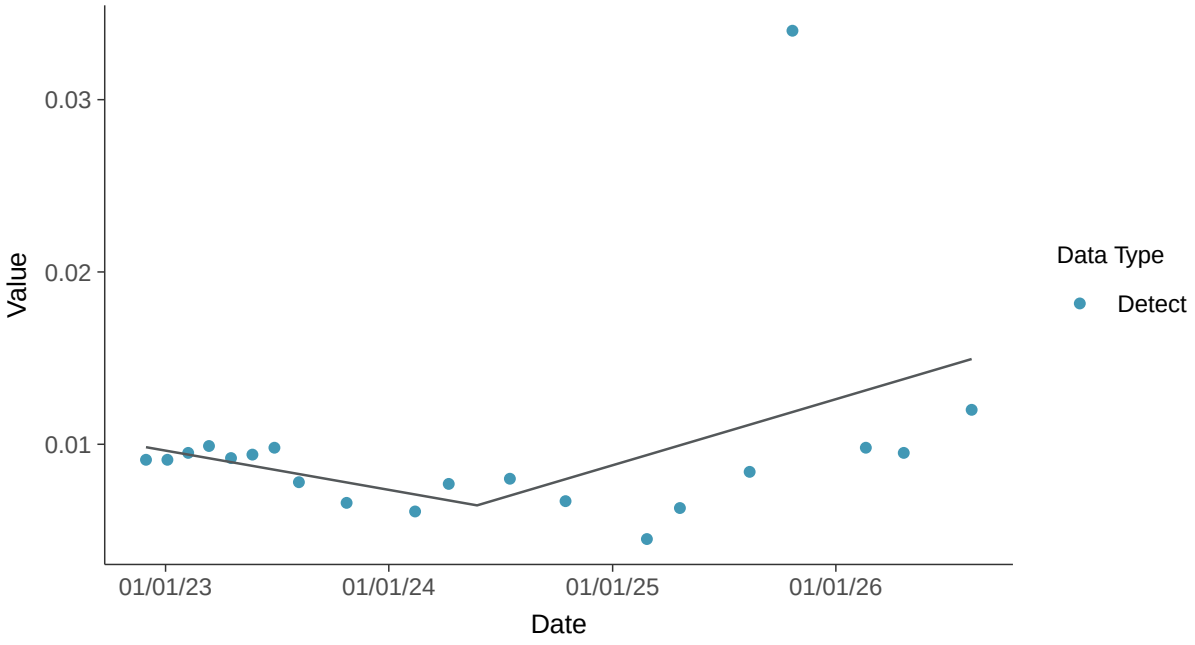
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Nickel, MW-20 (mg/L)



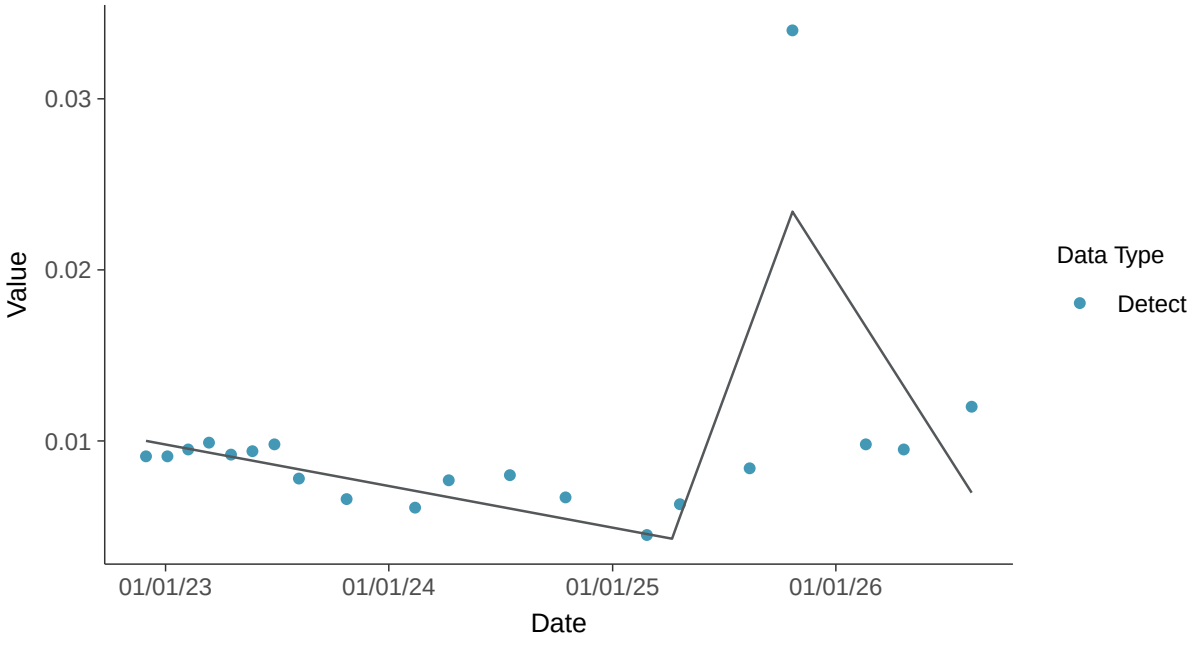
Trend Regression: Piecewise Linear-Linear

Nickel, MW-20 (mg/L)



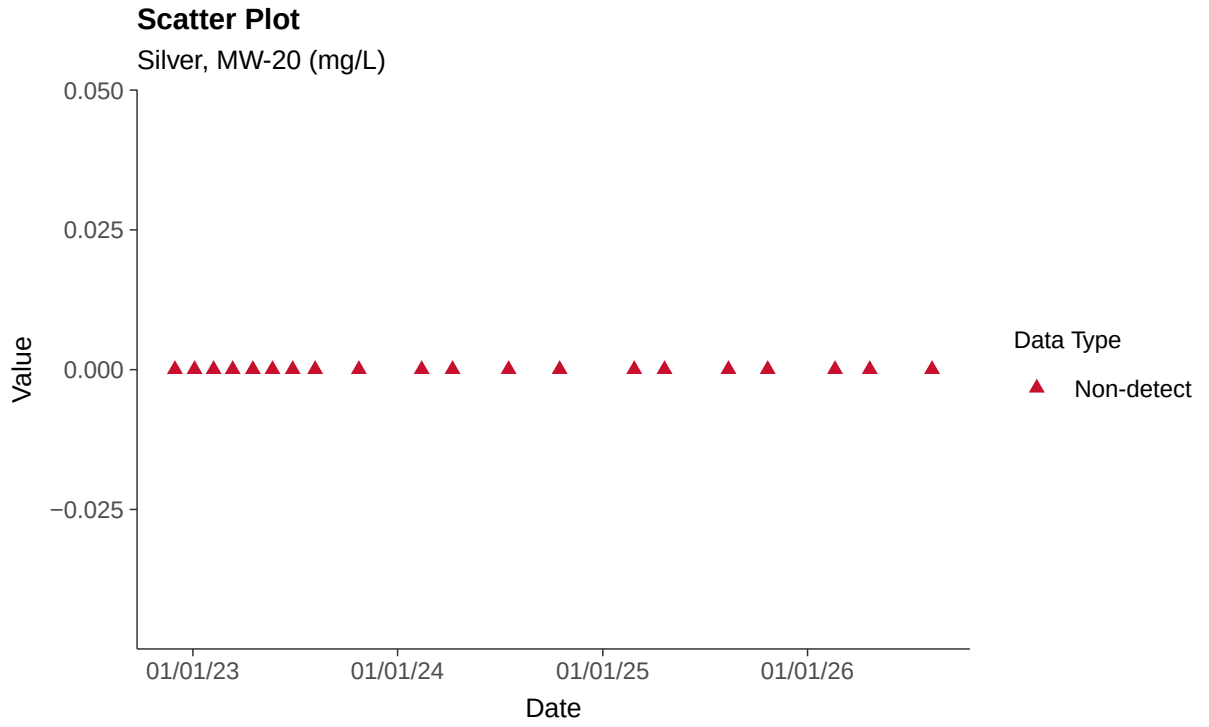
Trend Regression: Piecewise Linear-Linear-Linear

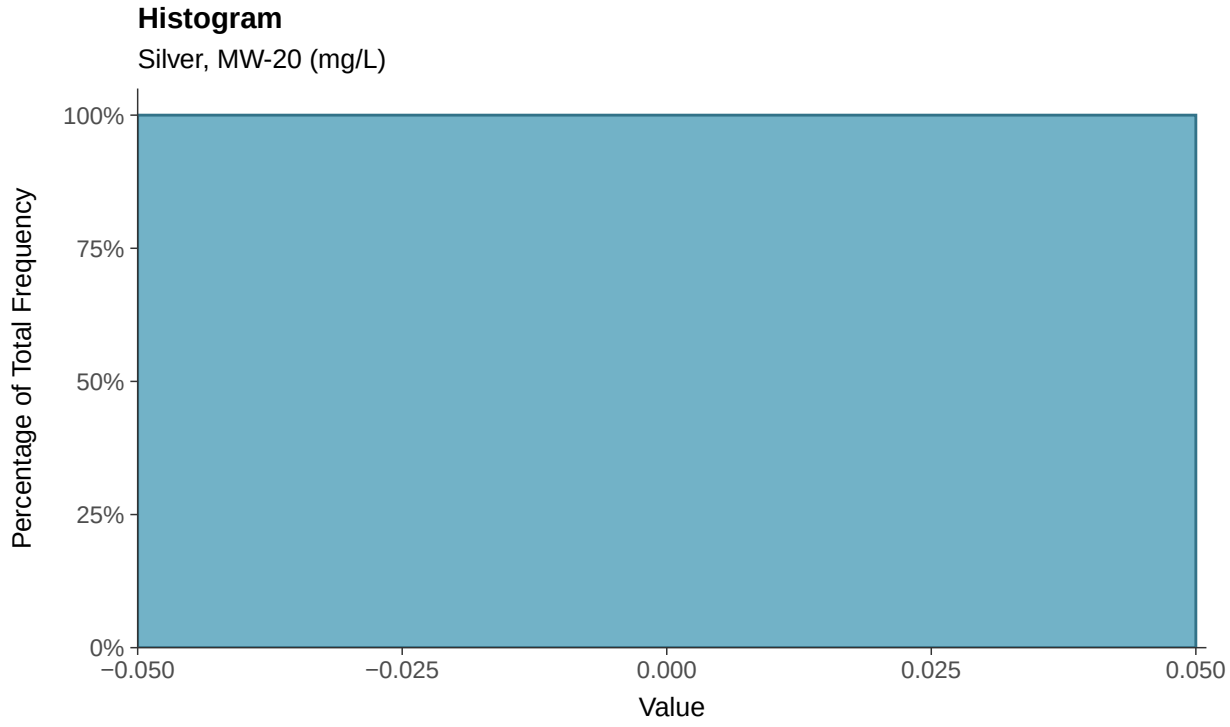
Nickel, MW-20 (mg/L)



Part 115: Silver, MW-20

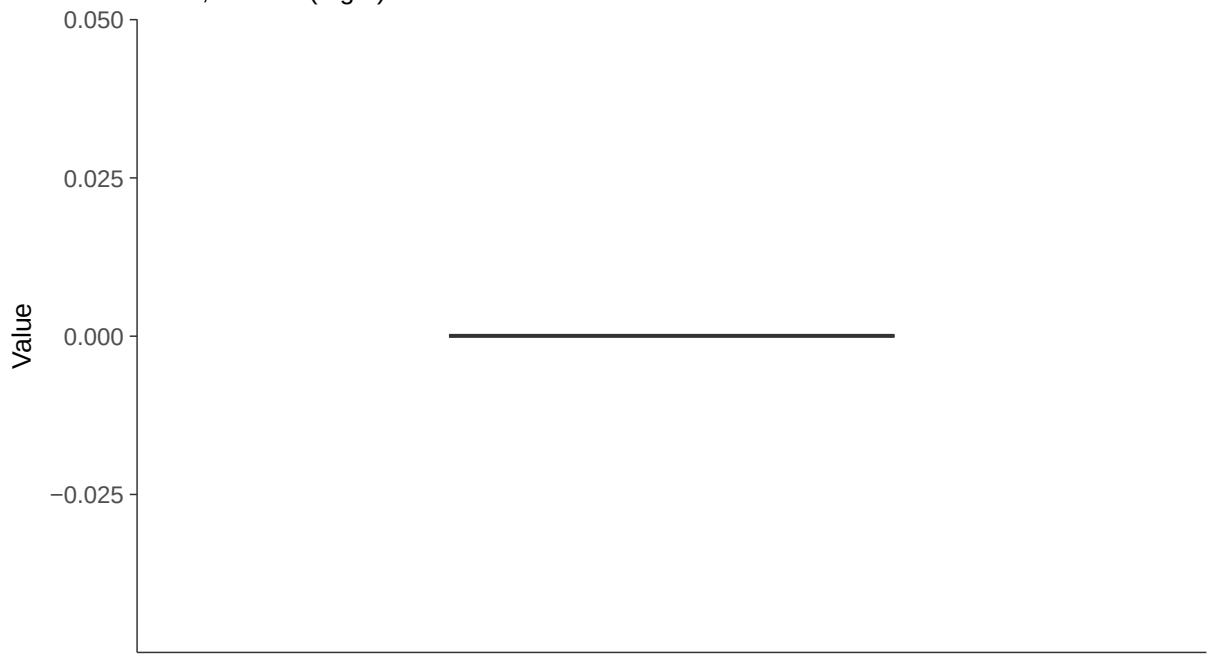
ID: 30_1_5_123





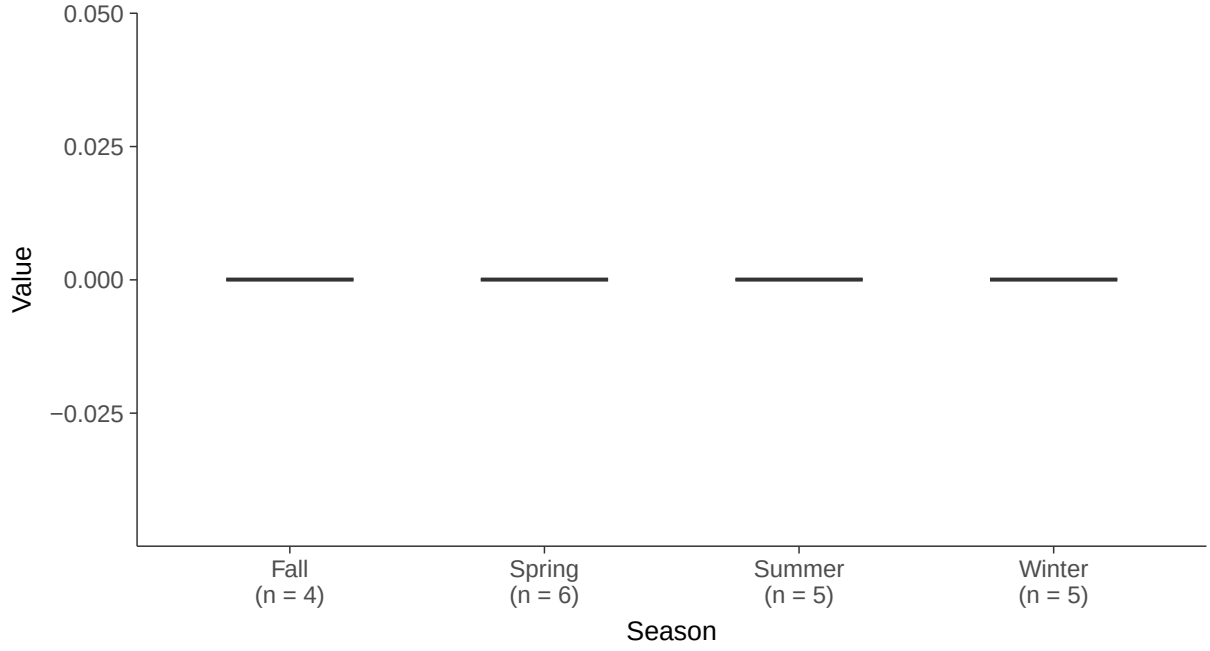
Boxplot

Silver, MW-20 (mg/L)



Boxplot by Season

Silver, MW-20 (mg/L)

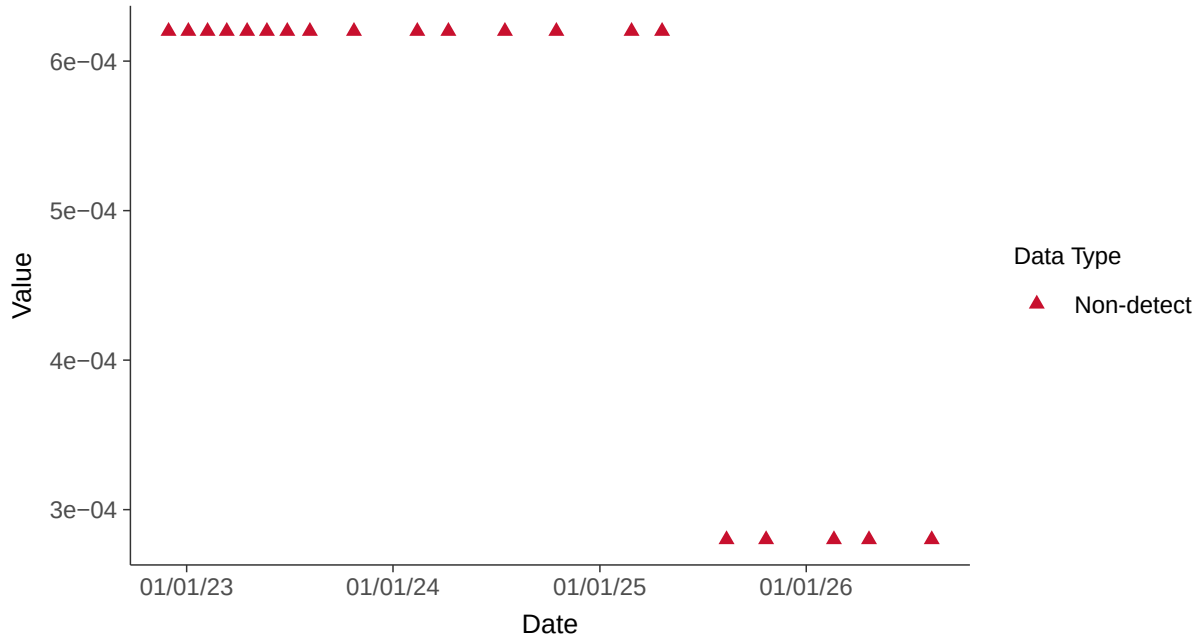


Part 115: Vanadium, MW-20

ID: 30_1_5_128

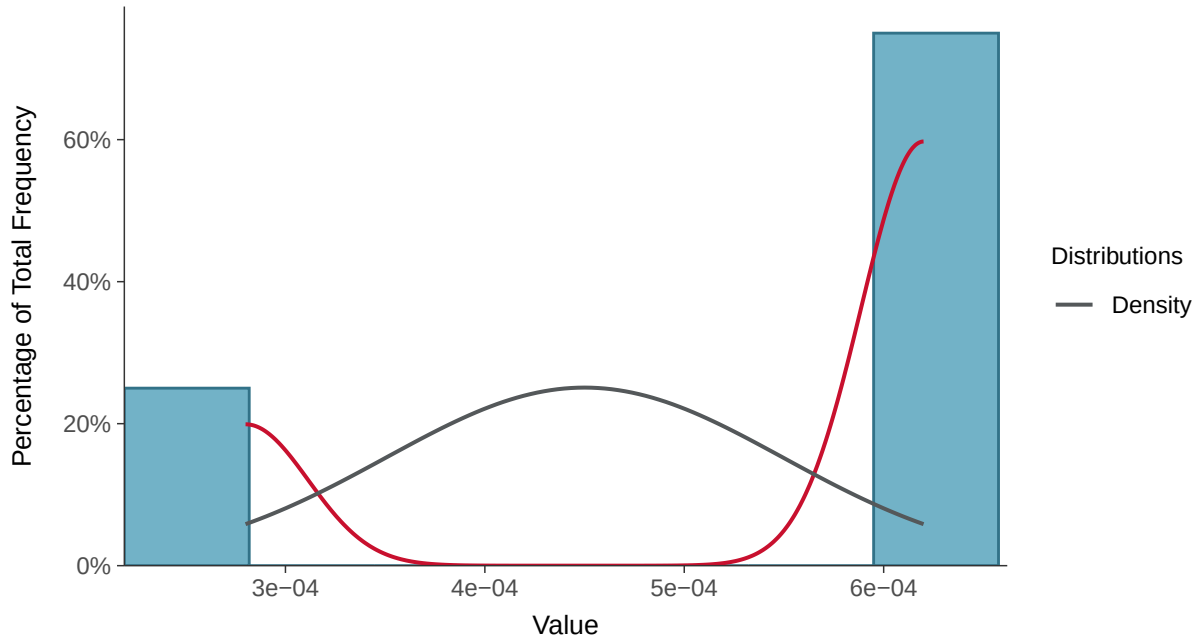
Scatter Plot

Vanadium, MW-20 (mg/L)



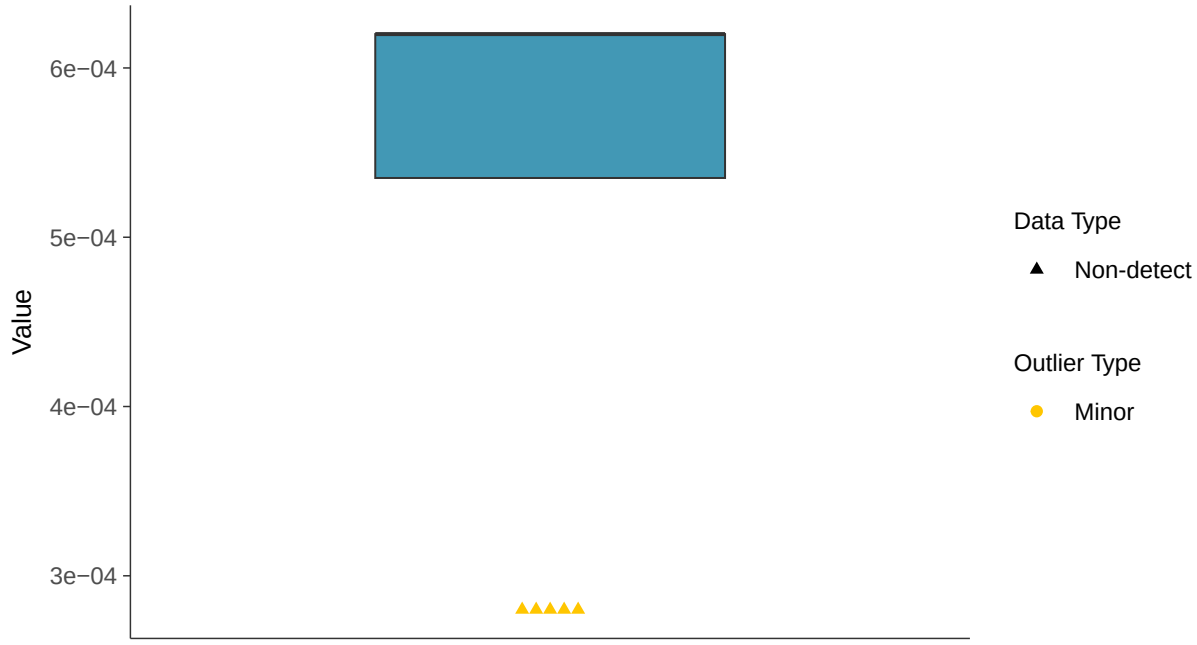
Histogram

Vanadium, MW-20 (mg/L)



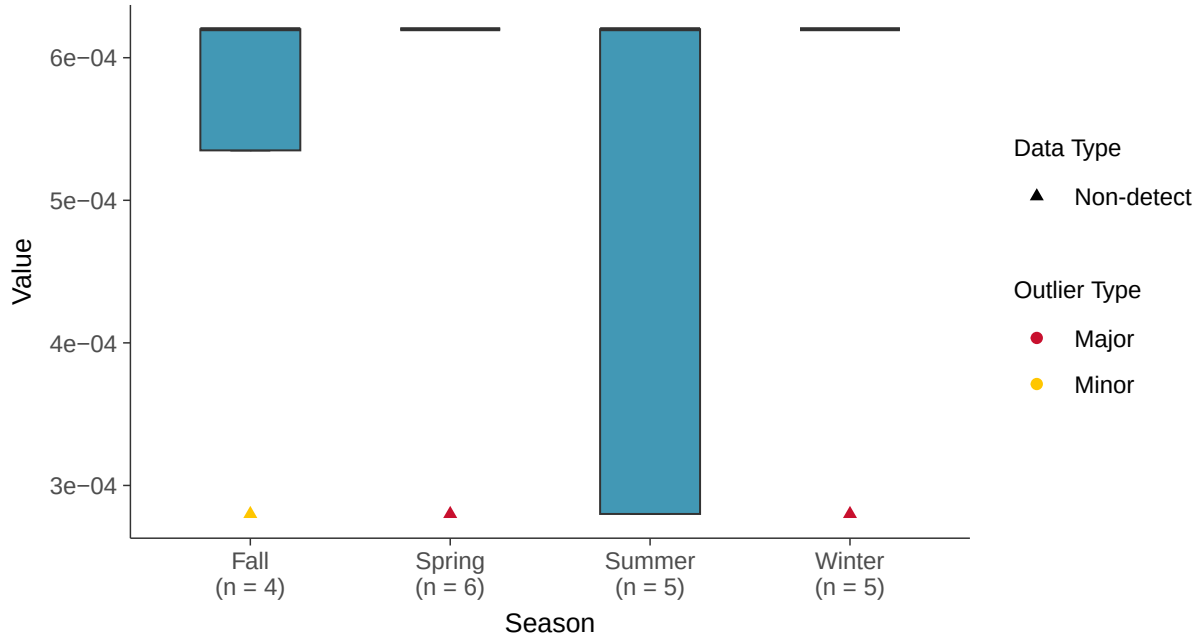
Boxplot

Vanadium, MW-20 (mg/L)



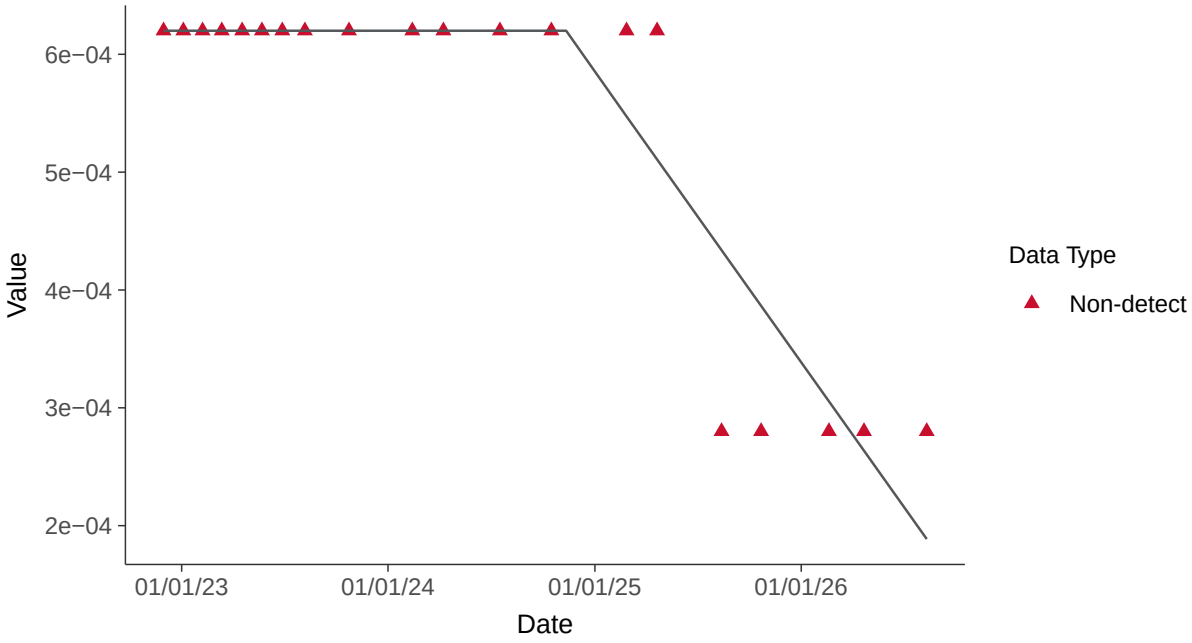
Boxplot by Season

Vanadium, MW-20 (mg/L)



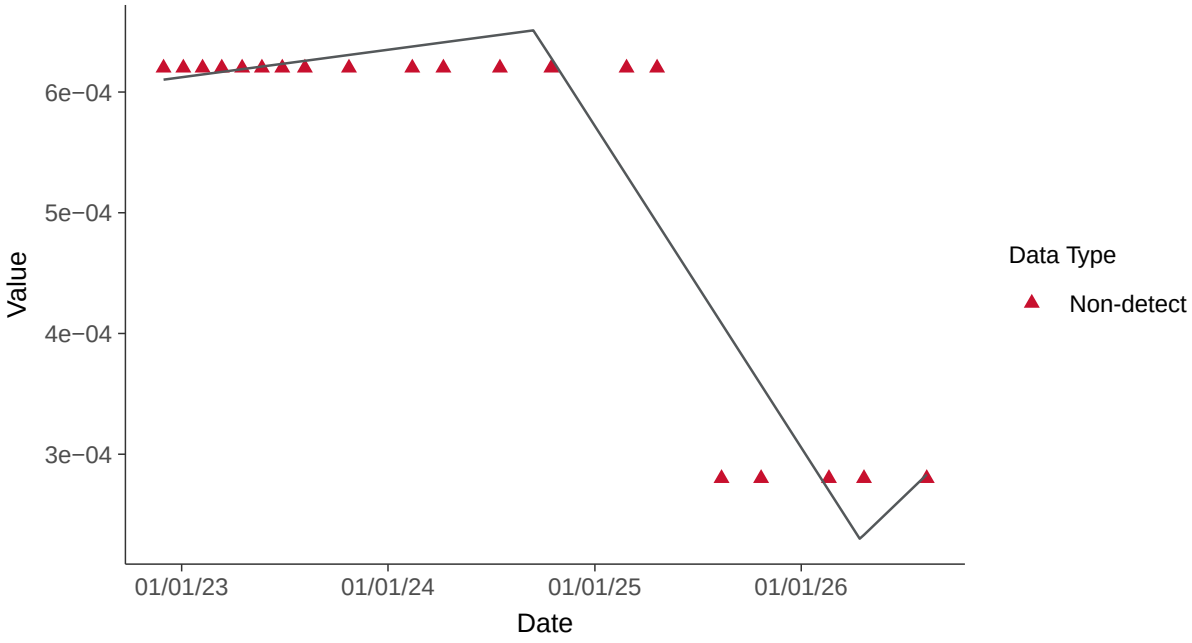
Trend Regression: Piecewise Linear-Linear

Vanadium, MW-20 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Vanadium, MW-20 (mg/L)

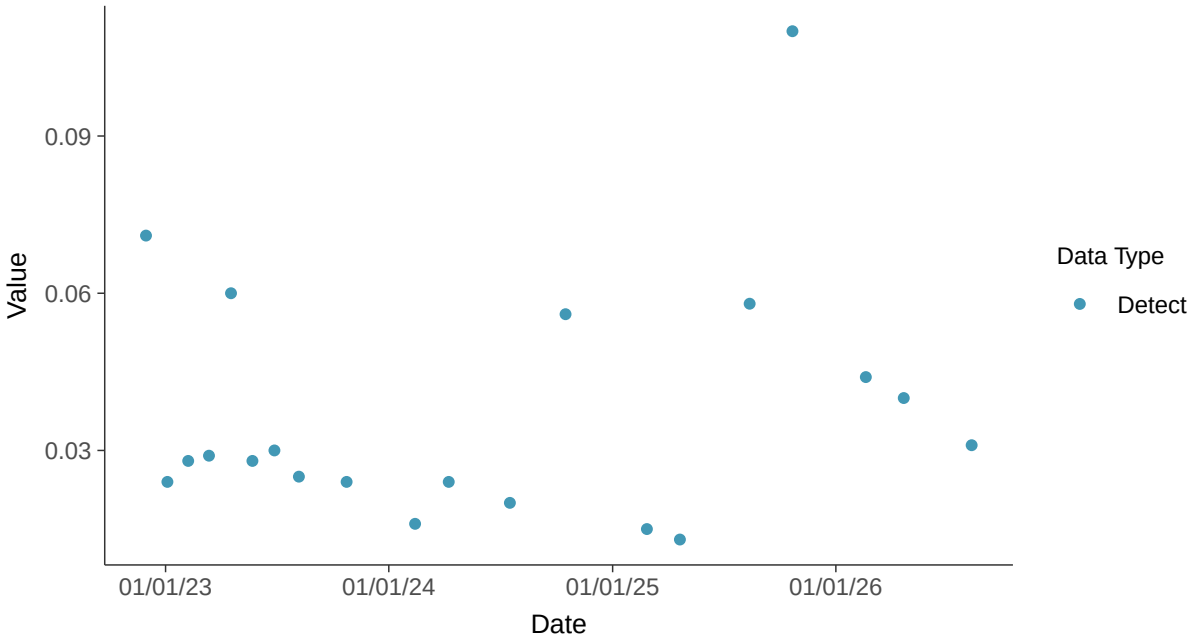


Part 115: Zinc, MW-20

ID: 30_1_5_129

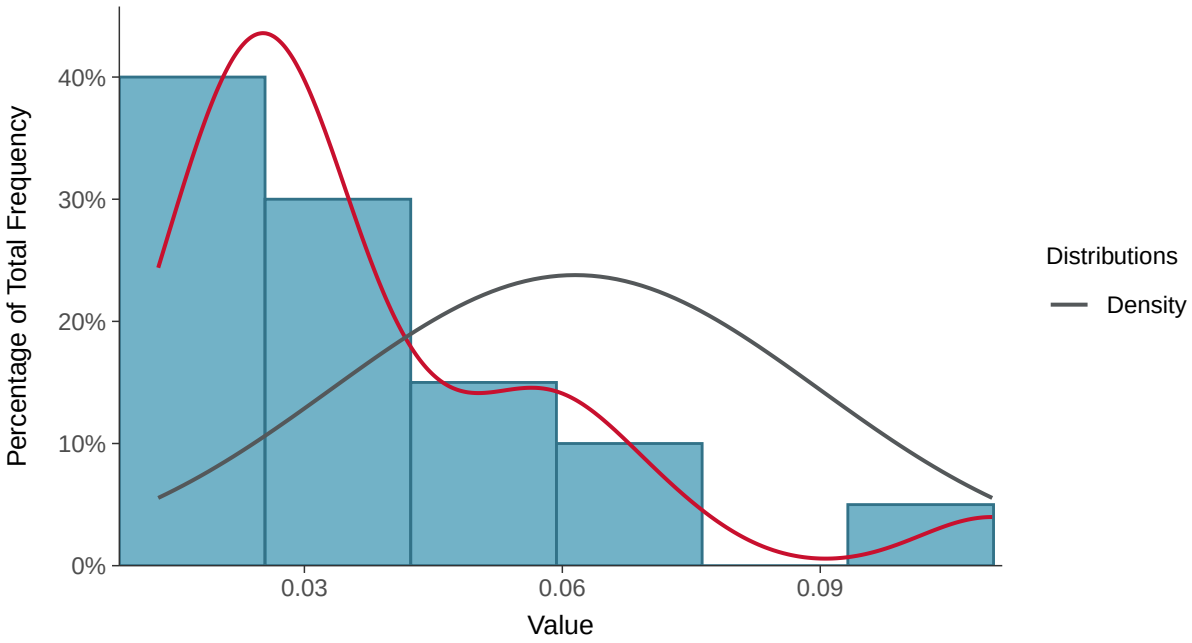
Scatter Plot

Zinc, MW-20 (mg/L)



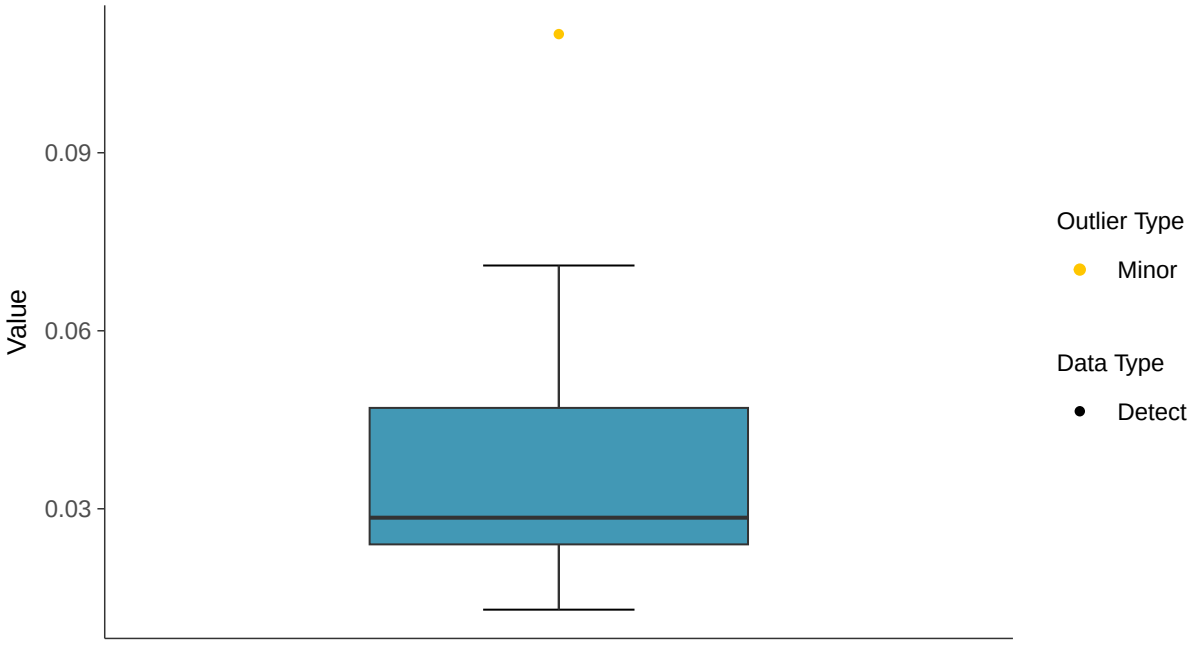
Histogram

Zinc, MW-20 (mg/L)



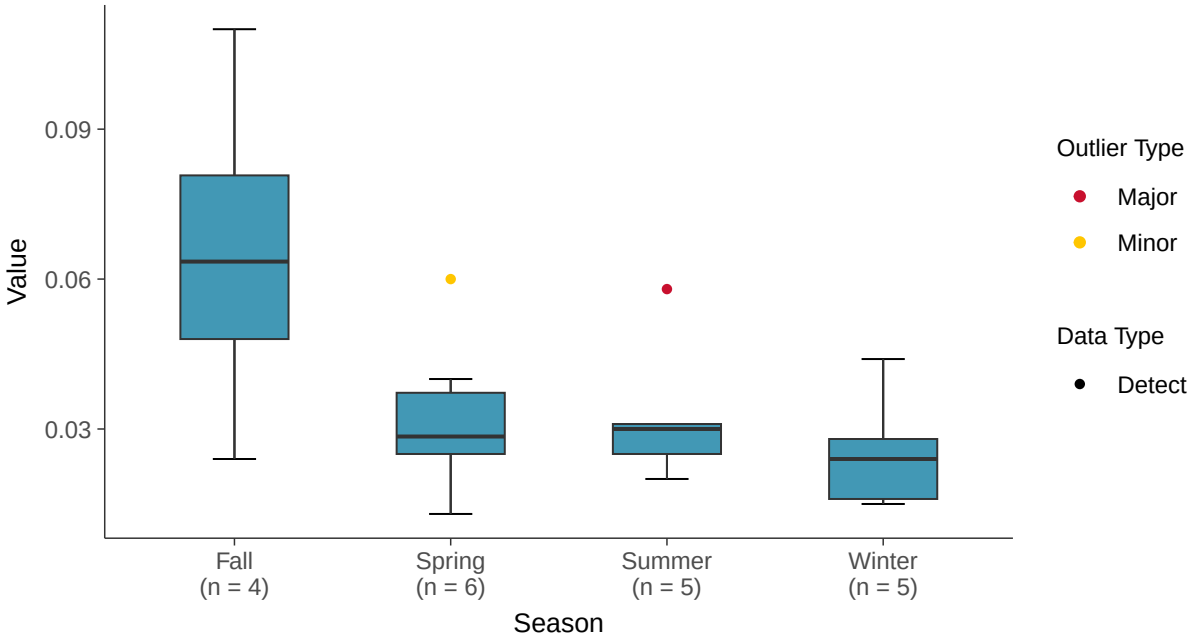
Boxplot

Zinc, MW-20 (mg/L)



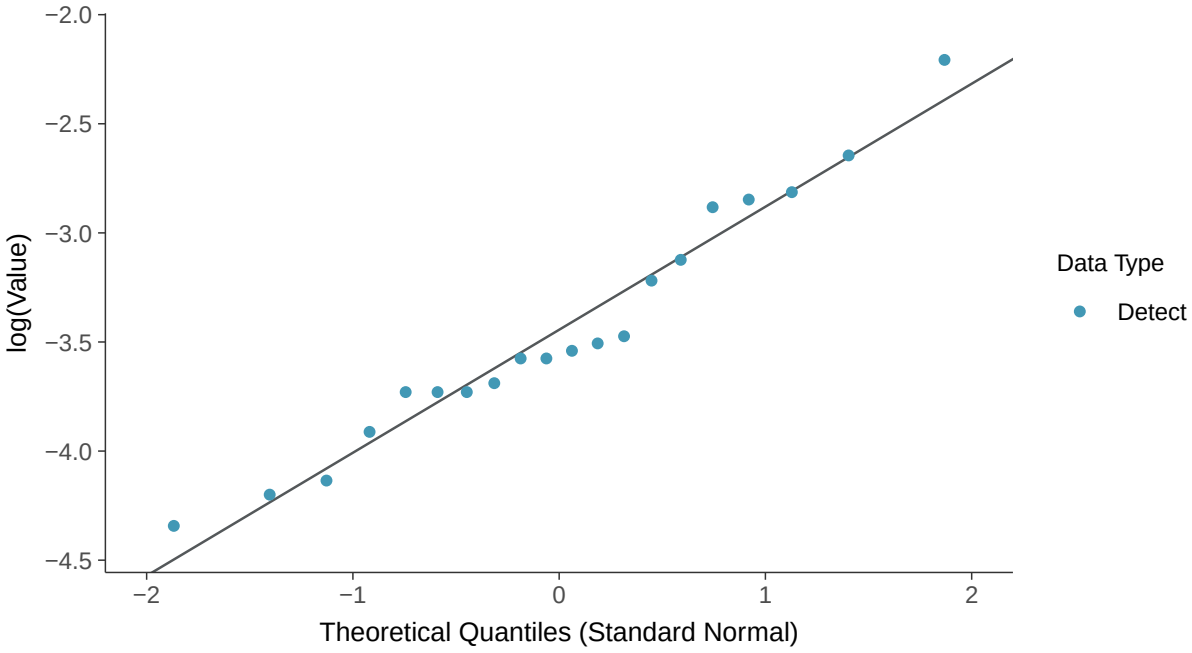
Boxplot by Season

Zinc, MW-20 (mg/L)



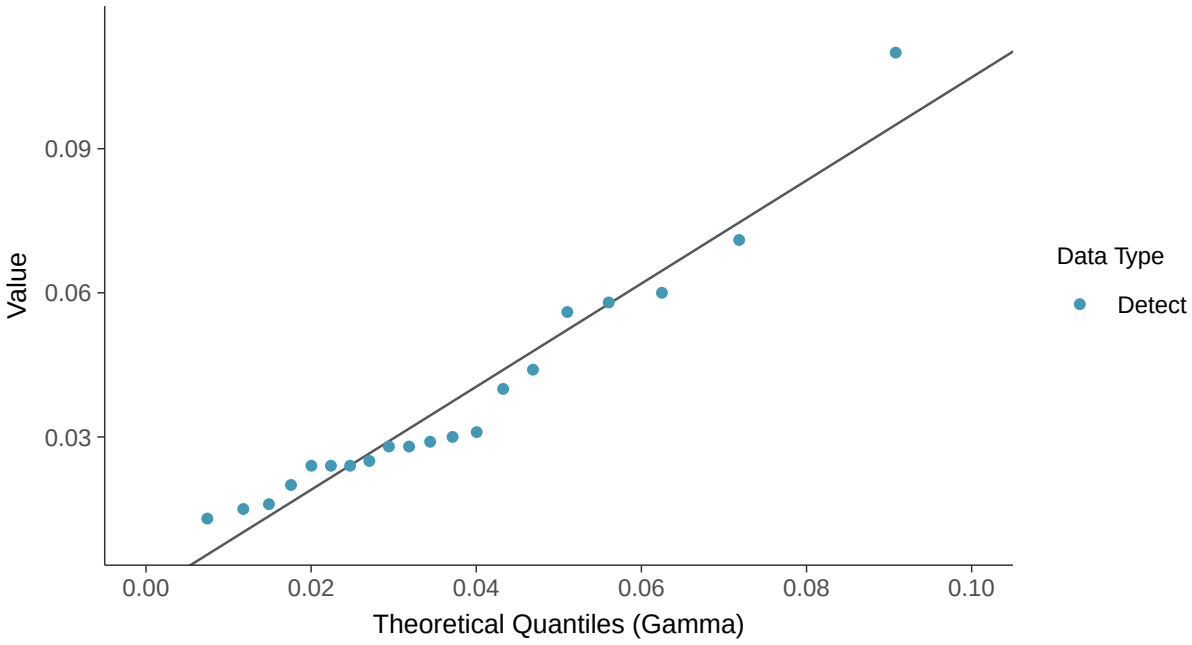
Lognormal Q-Q plot

Zinc, MW-20 (mg/L)



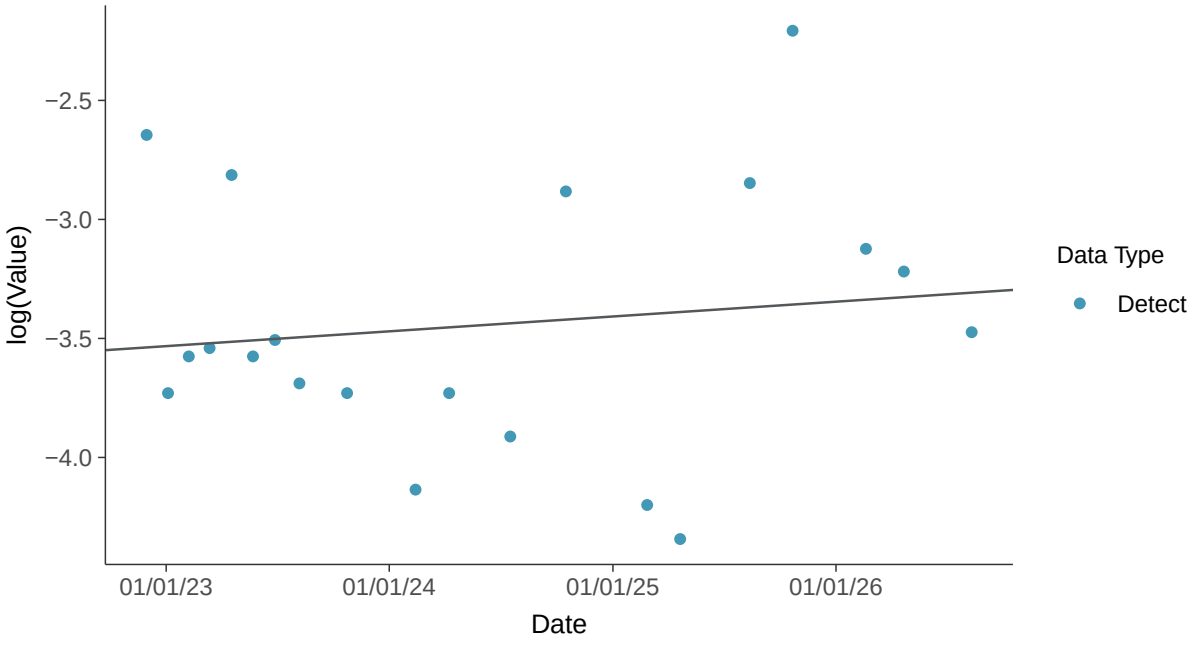
Gamma Q-Q plot

Zinc, MW-20 (mg/L)



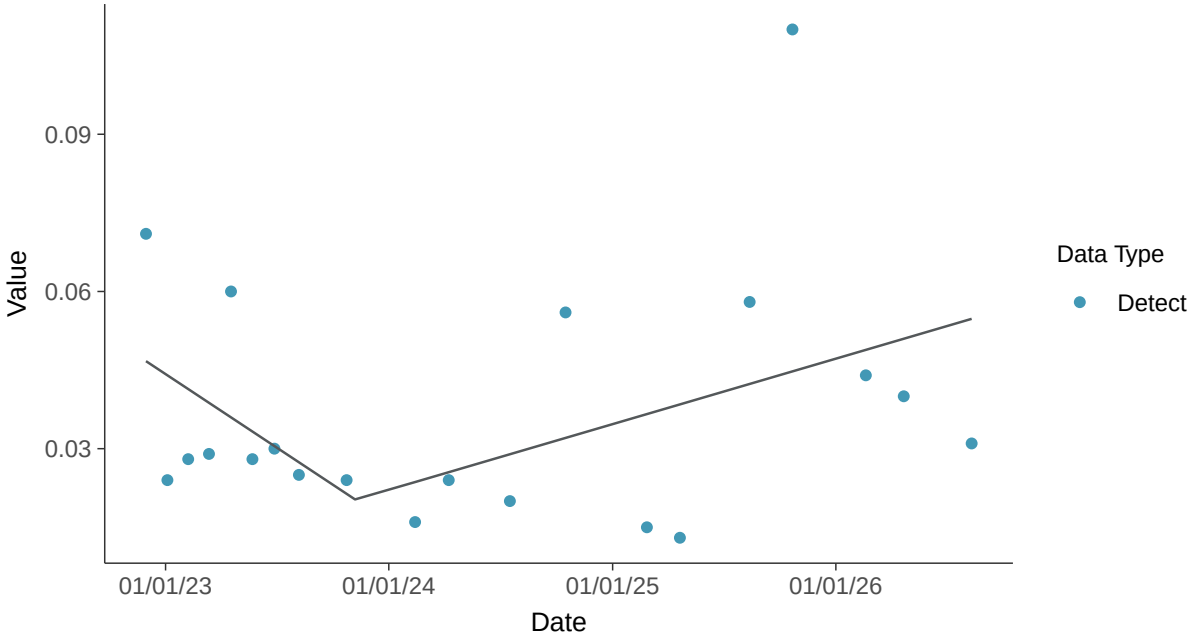
Trend Regression: Lognormal MLE

Zinc, MW-20 (mg/L)



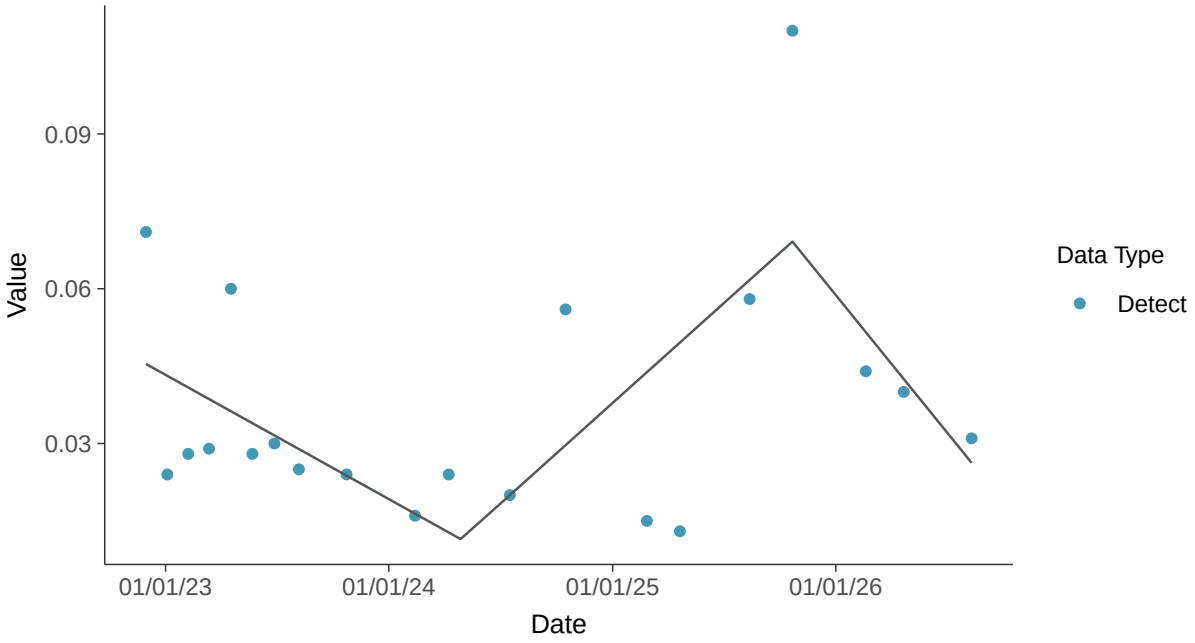
Trend Regression: Piecewise Linear-Linear

Zinc, MW-20 (mg/L)



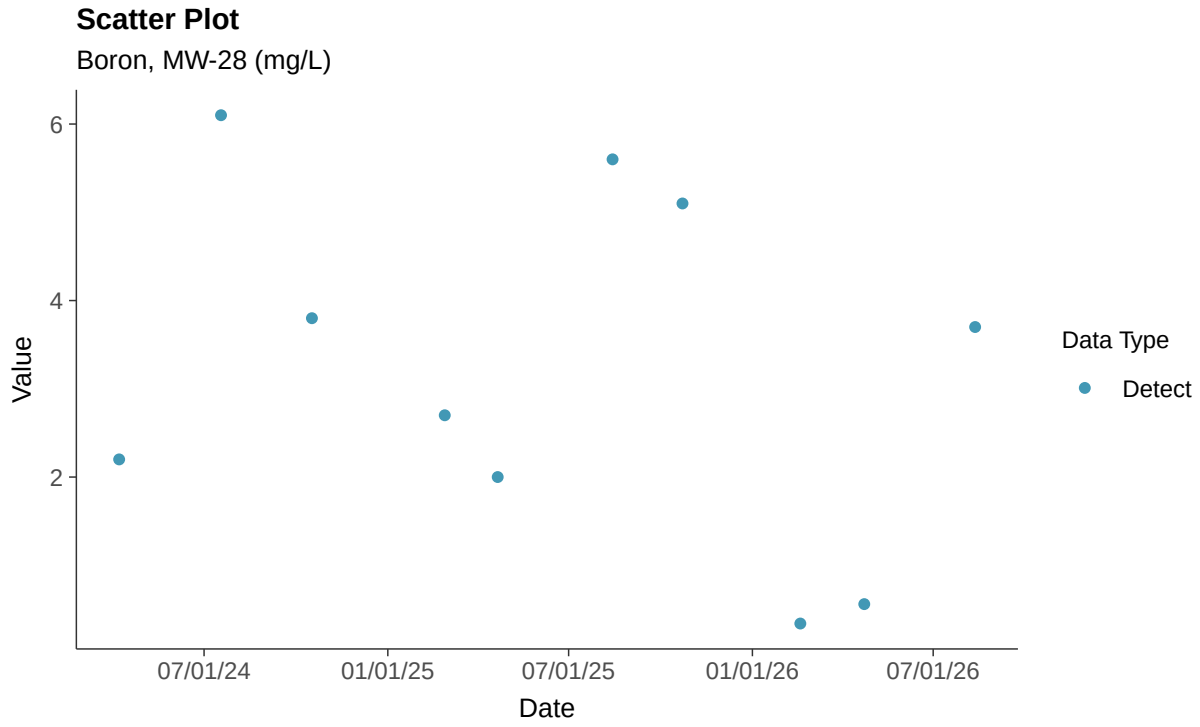
Trend Regression: Piecewise Linear-Linear-Linear

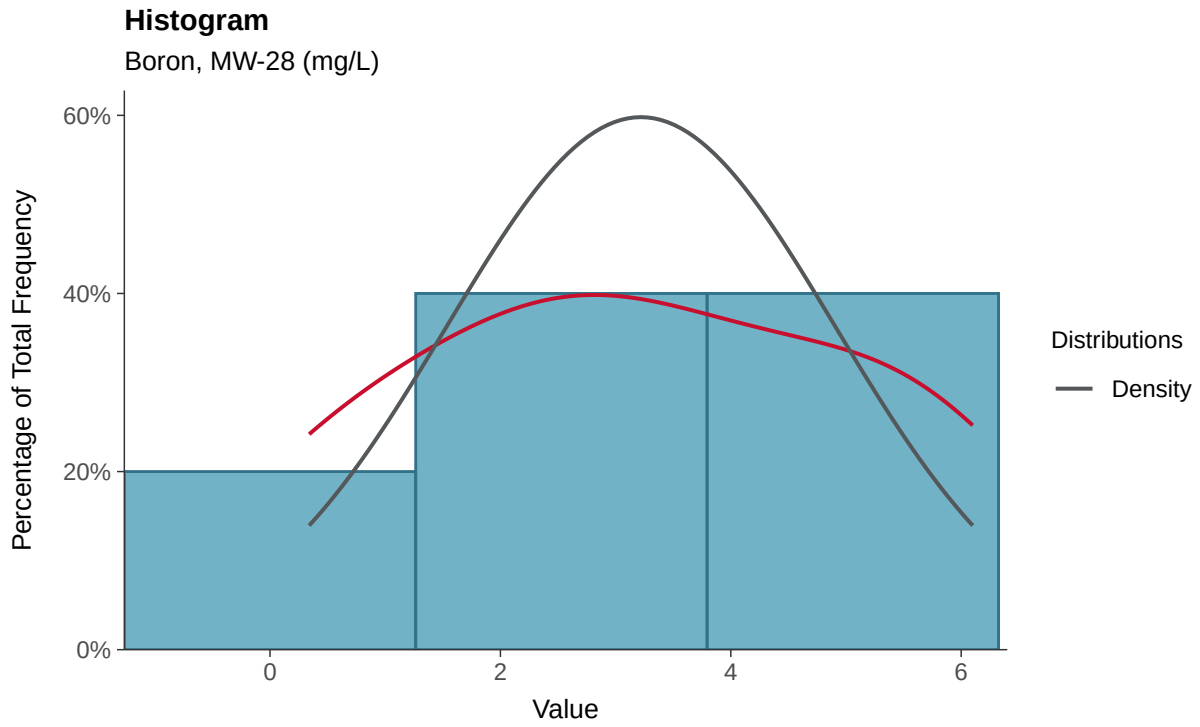
Zinc, MW-20 (mg/L)



Appendix III: Boron, MW-28

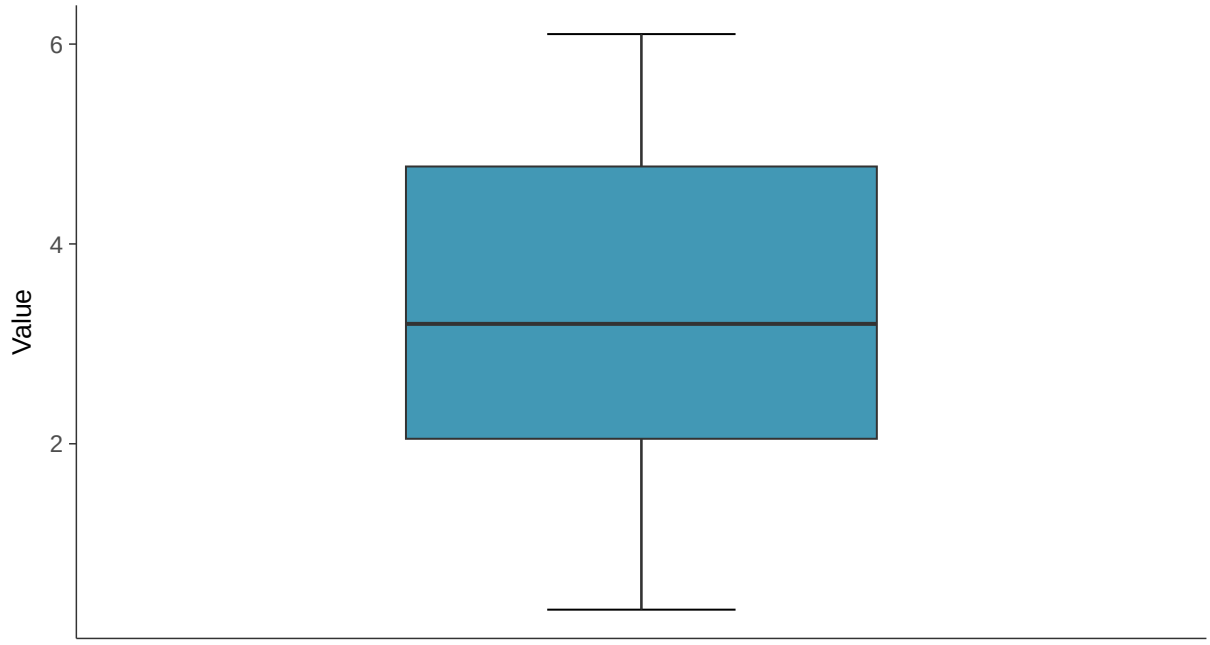
ID: 38_1_3_105





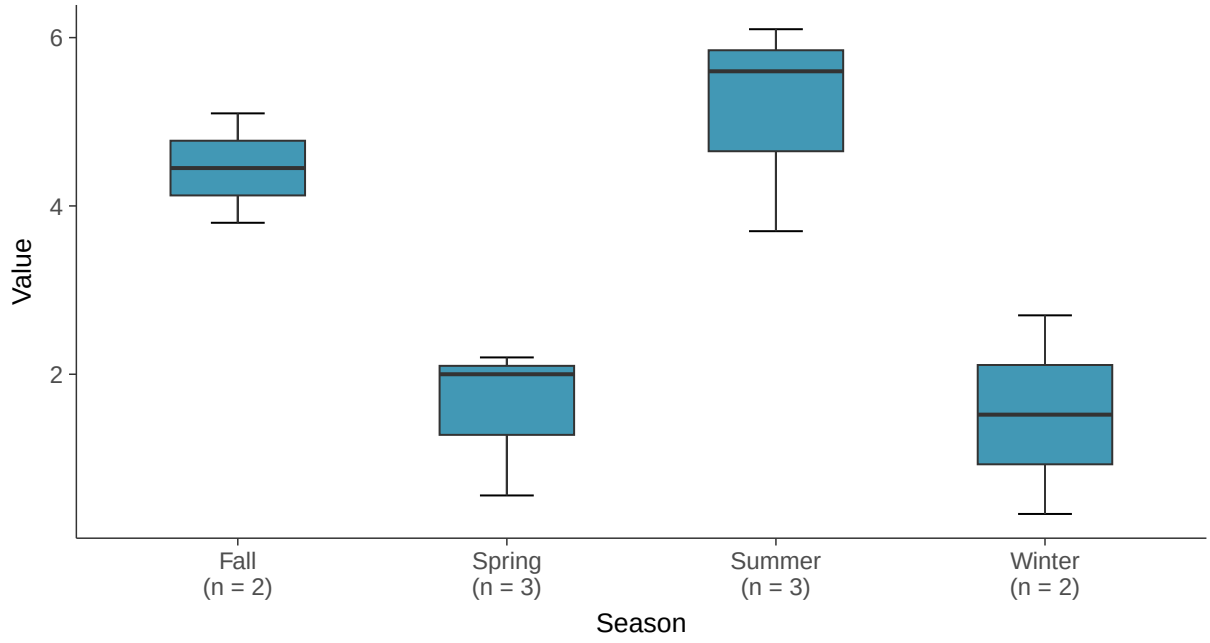
Boxplot

Boron, MW-28 (mg/L)



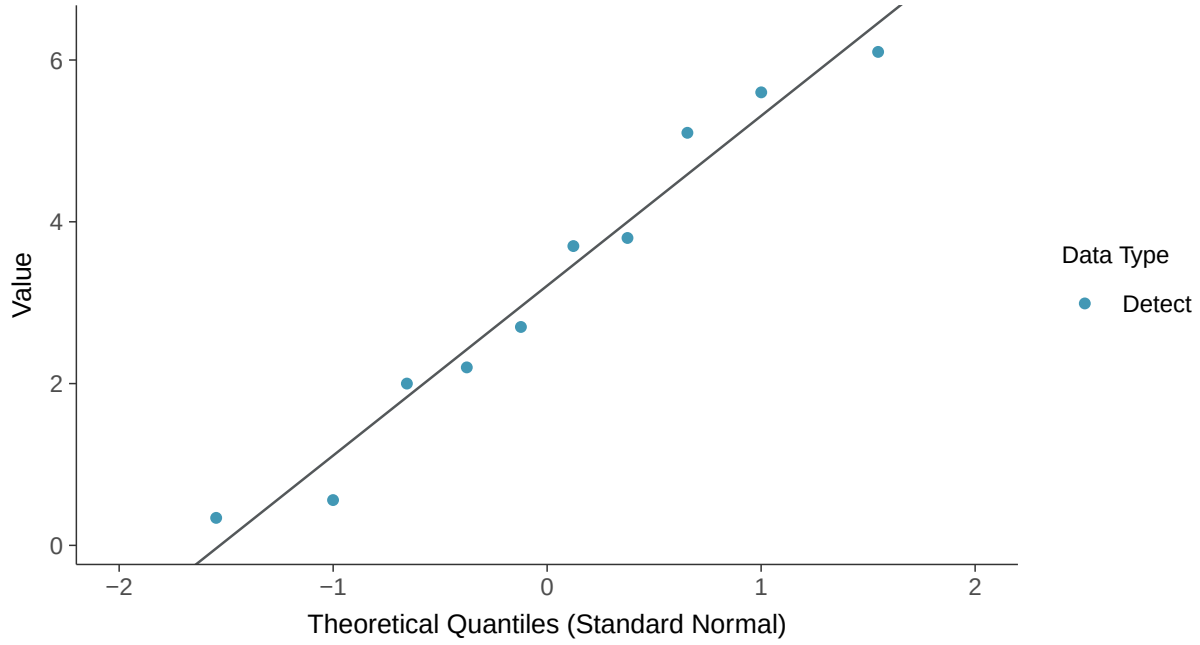
Boxplot by Season

Boron, MW-28 (mg/L)



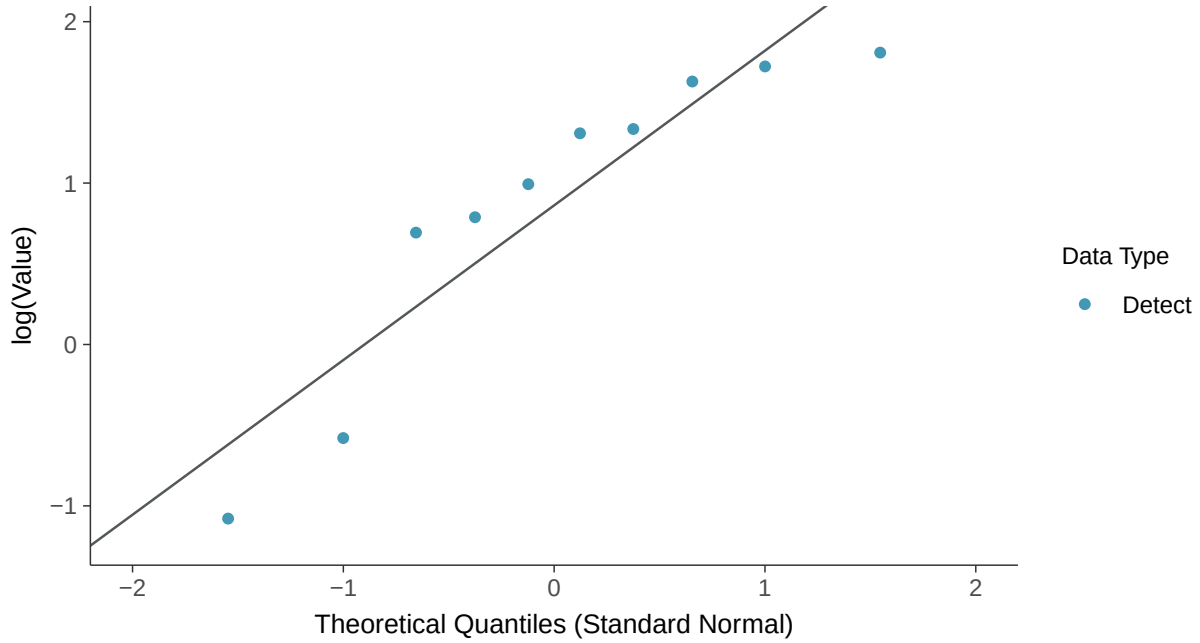
Normal Q-Q plot

Boron, MW-28 (mg/L)



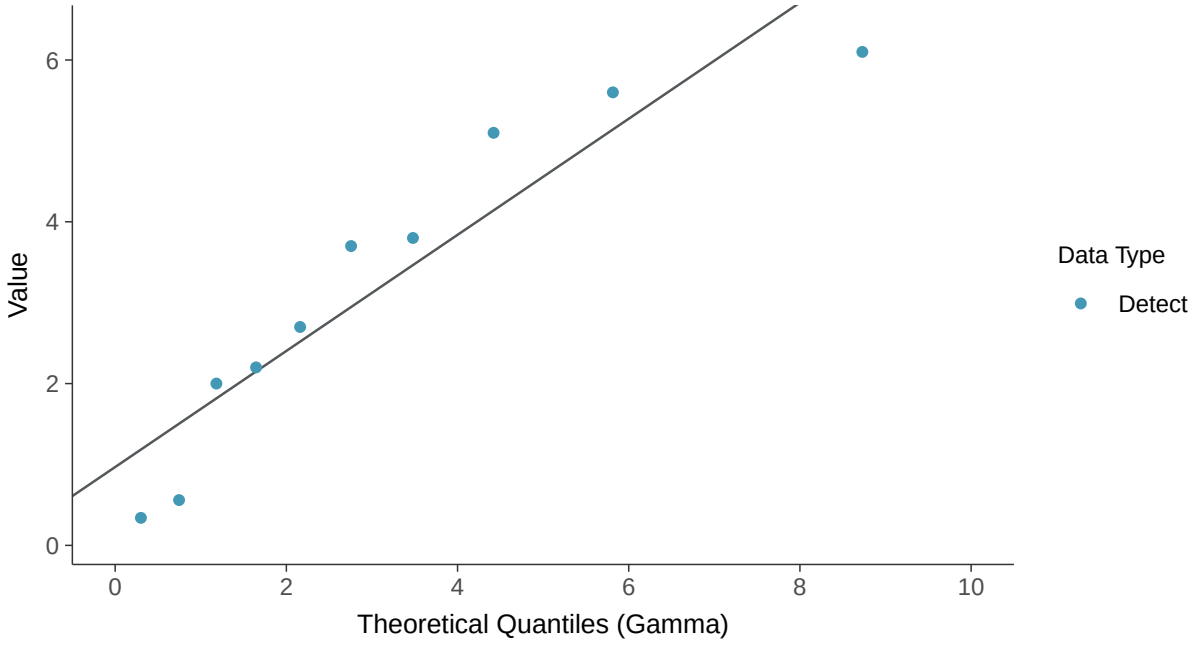
Lognormal Q-Q plot

Boron, MW-28 (mg/L)



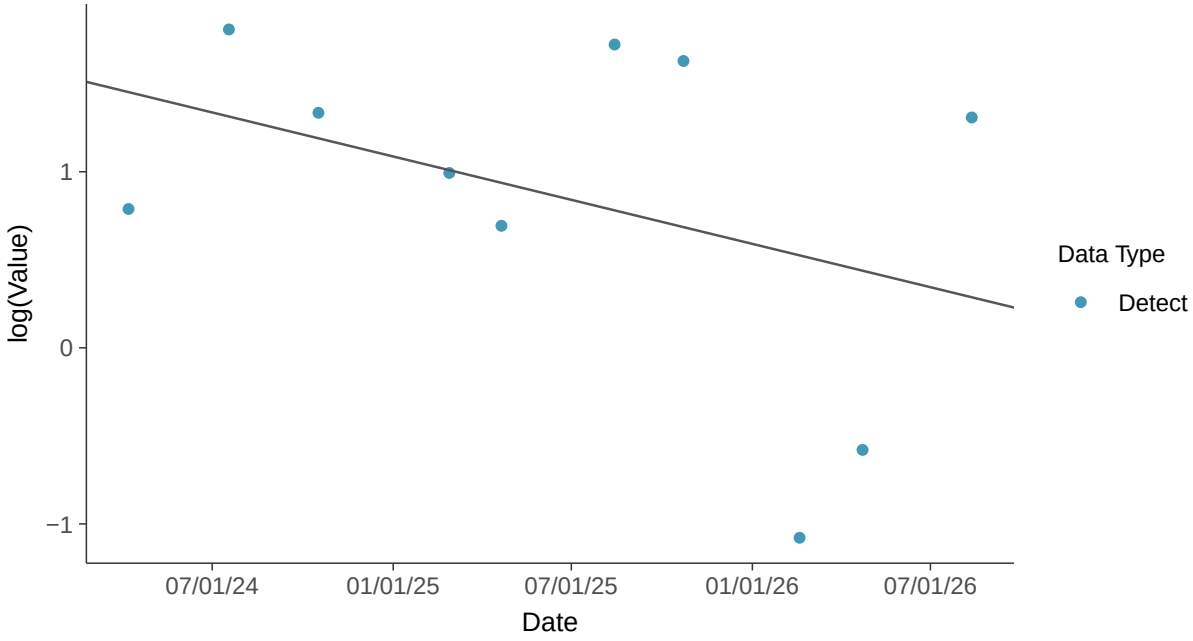
Gamma Q-Q plot

Boron, MW-28 (mg/L)



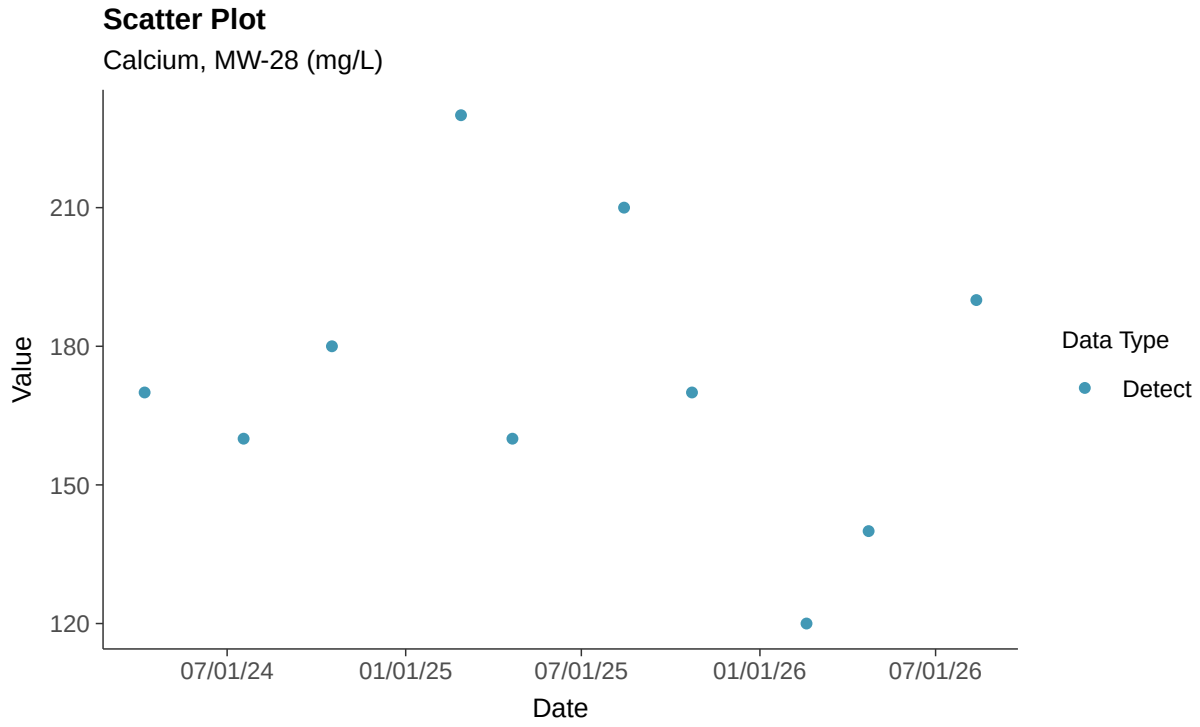
Trend Regression: Lognormal MLE

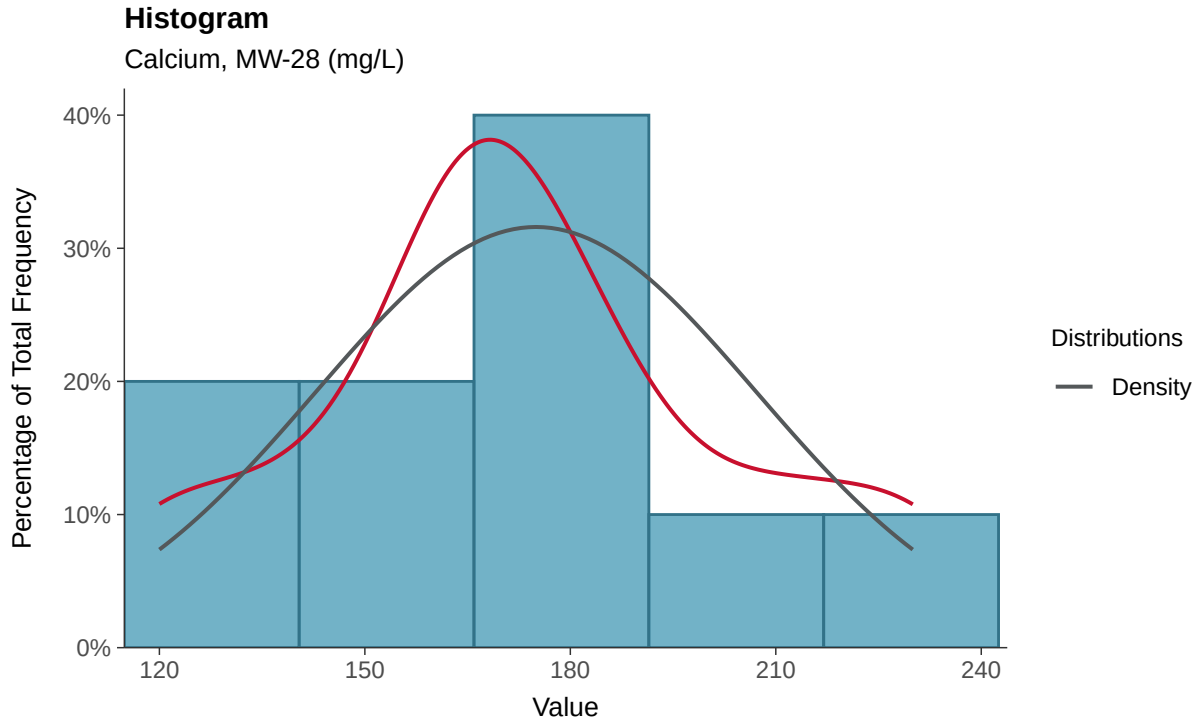
Boron, MW-28 (mg/L)



Appendix III: Calcium, MW-28

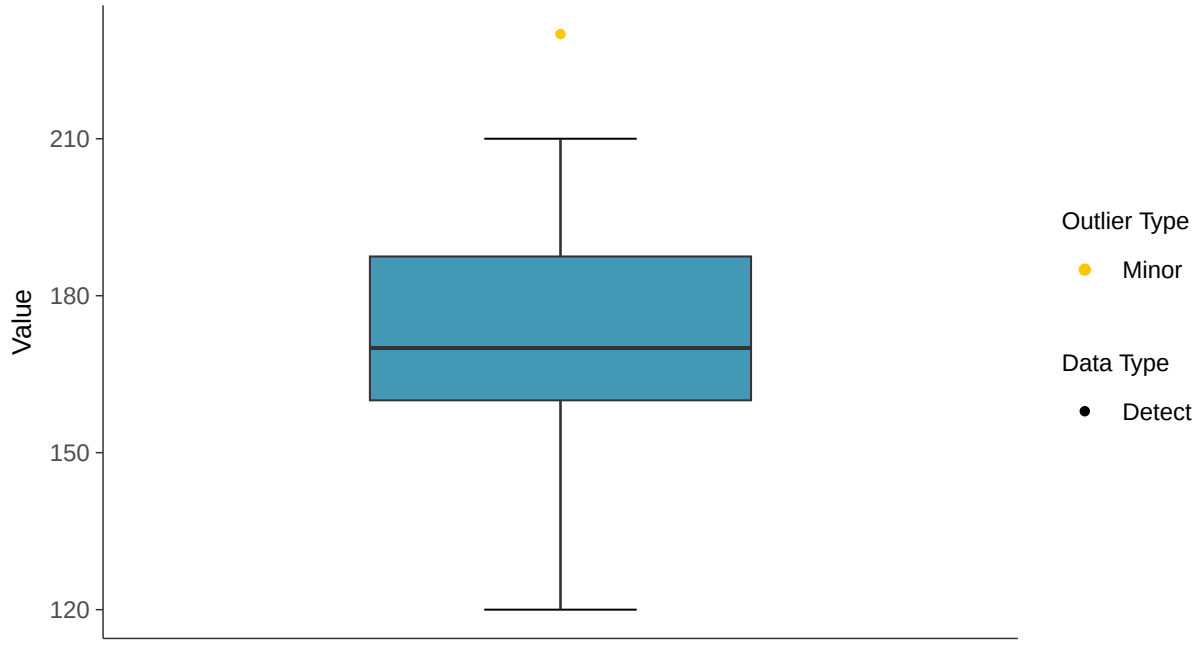
ID: 38_1_3_107





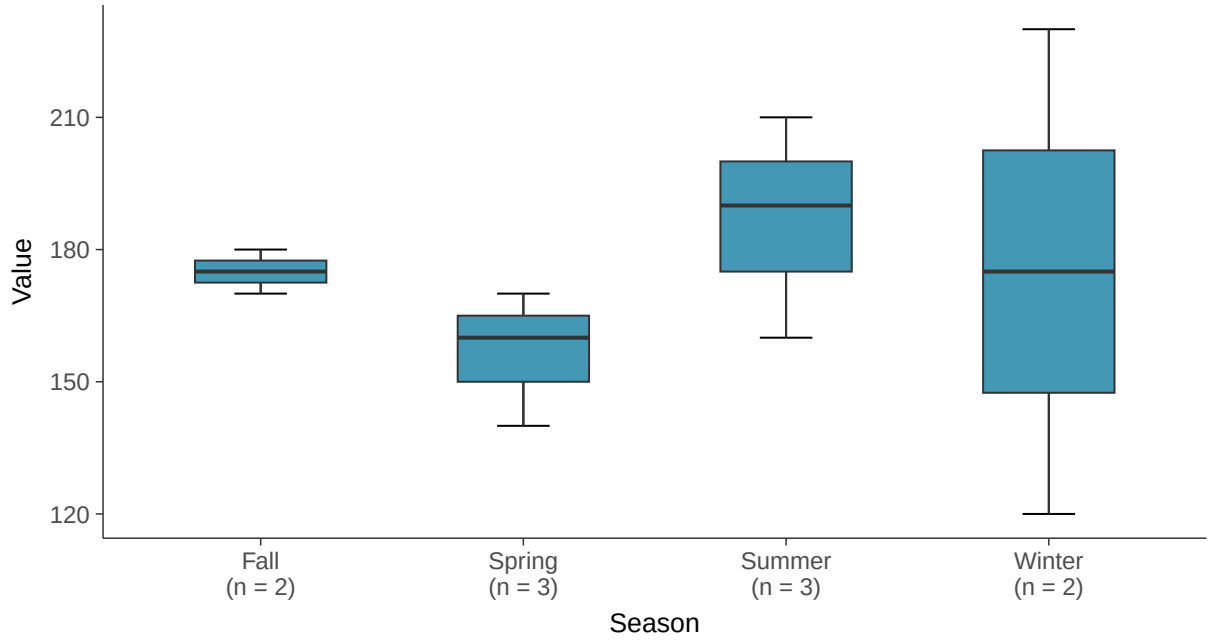
Boxplot

Calcium, MW-28 (mg/L)



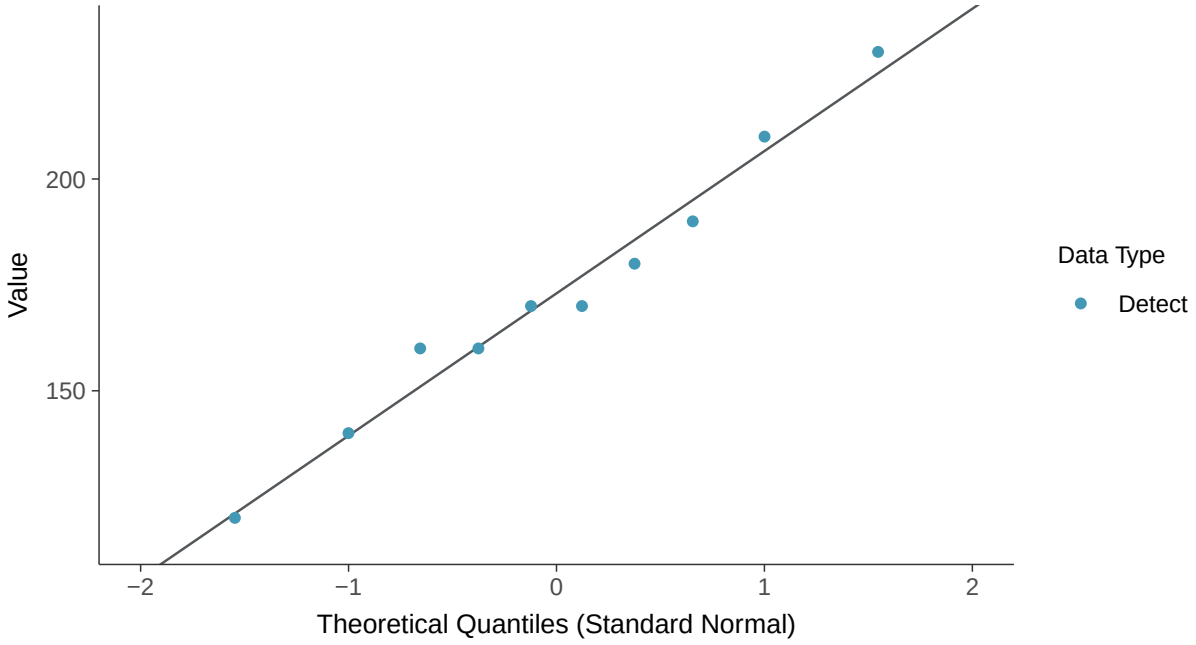
Boxplot by Season

Calcium, MW-28 (mg/L)



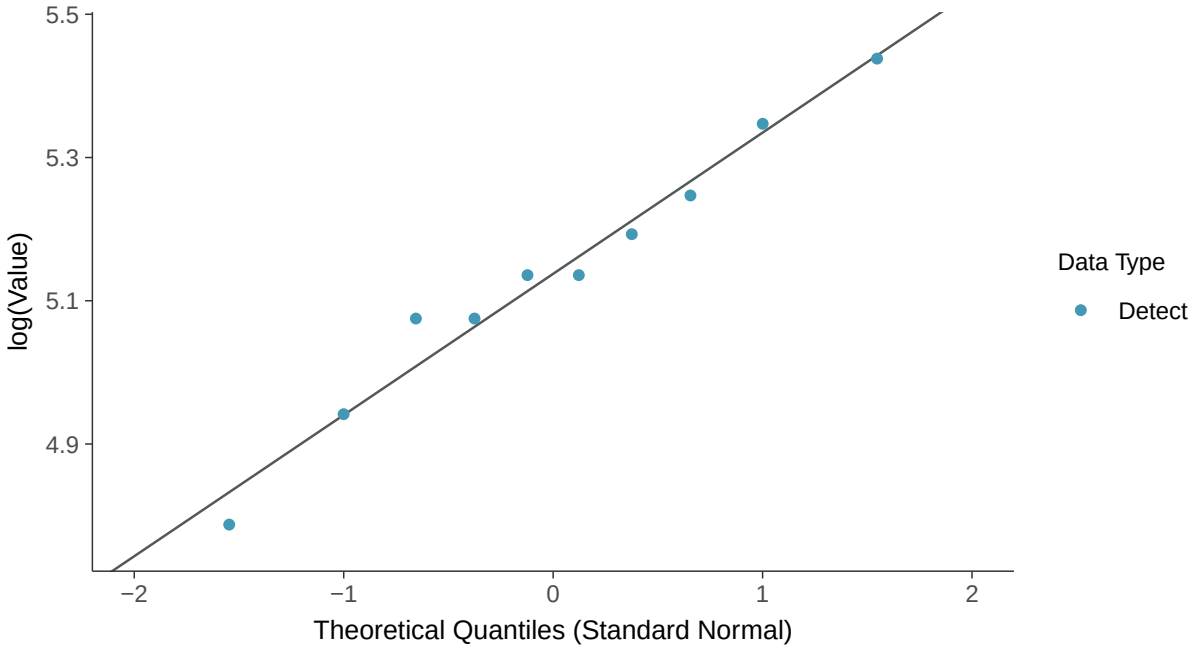
Normal Q-Q plot

Calcium, MW-28 (mg/L)



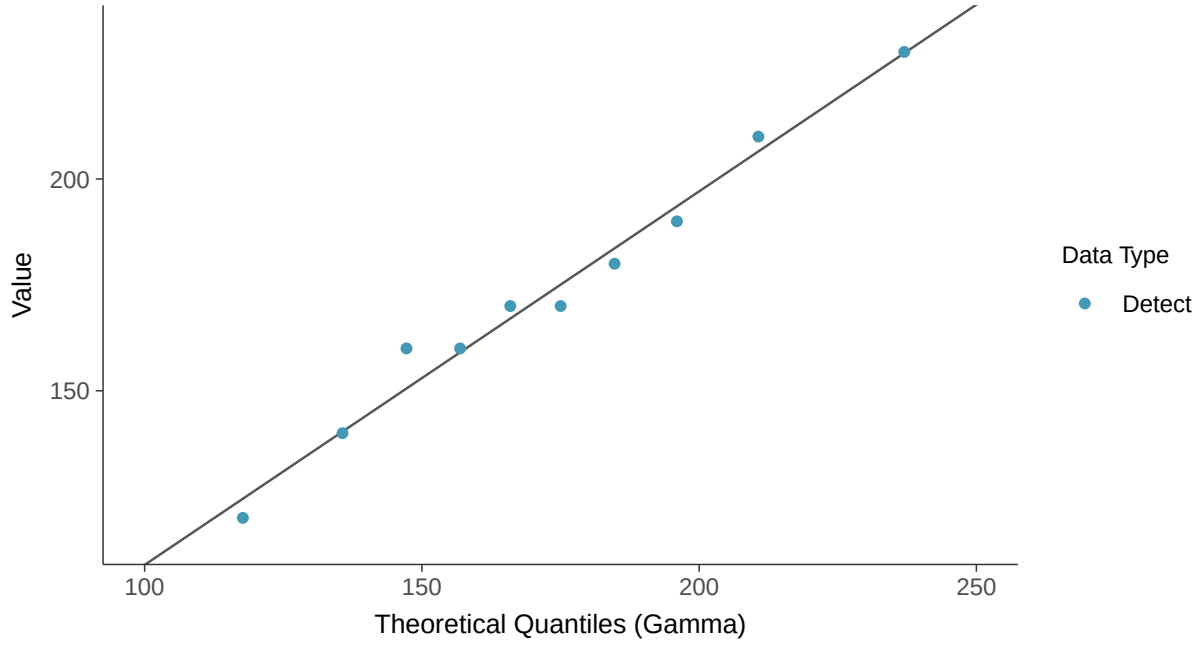
Lognormal Q-Q plot

Calcium, MW-28 (mg/L)



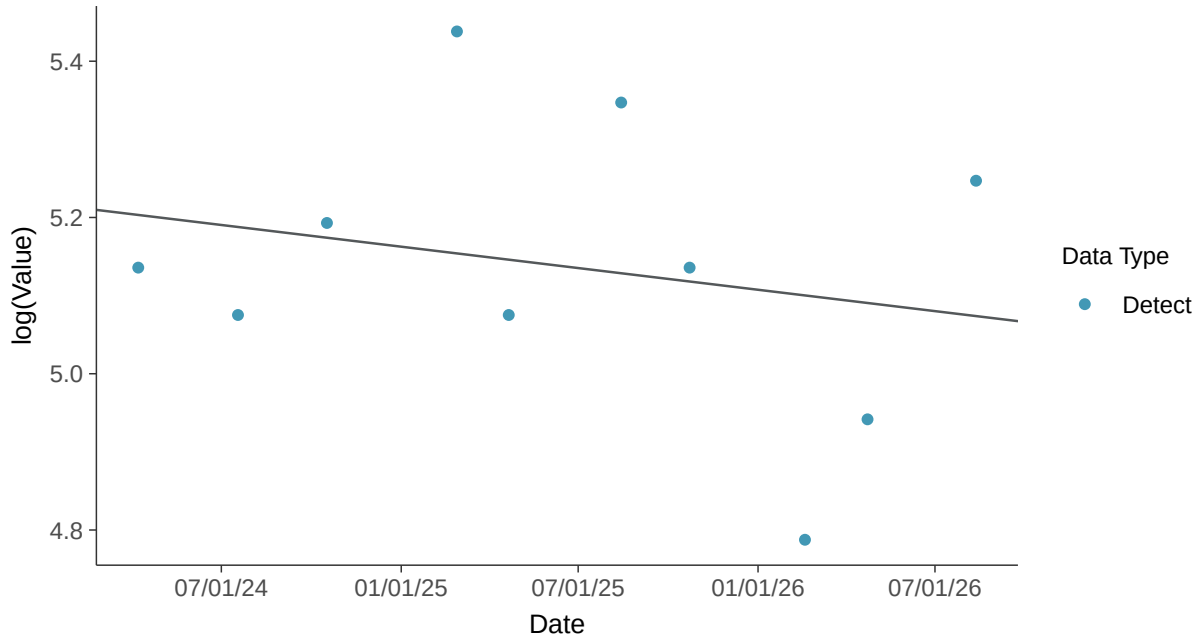
Gamma Q-Q plot

Calcium, MW-28 (mg/L)



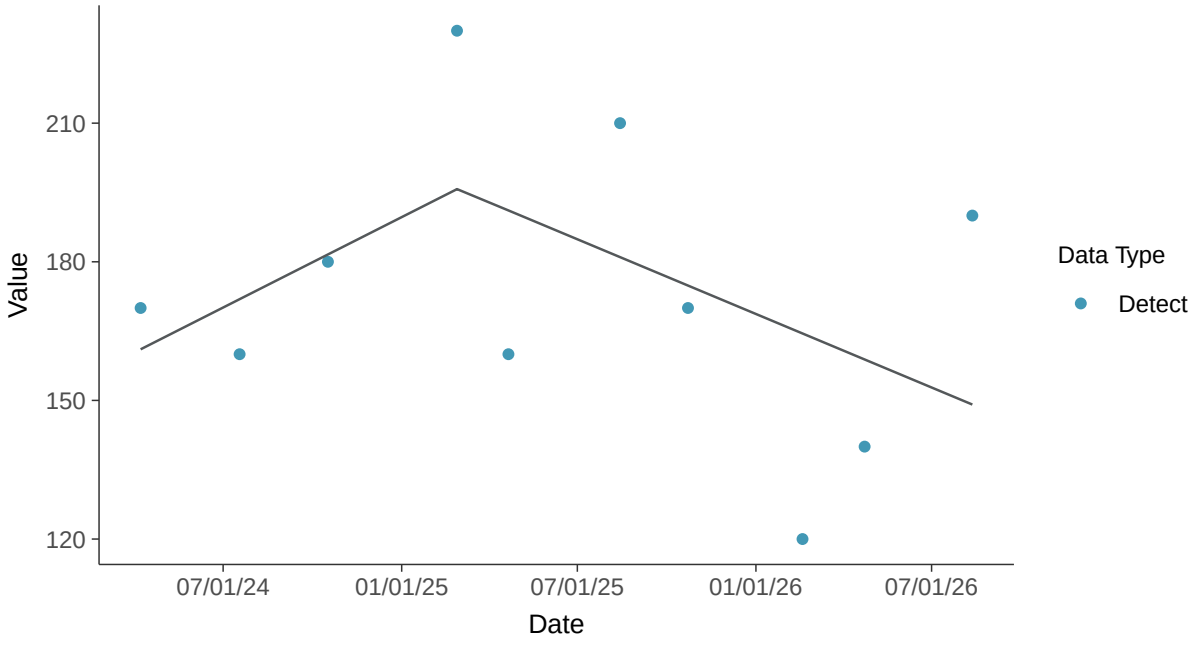
Trend Regression: Lognormal MLE

Calcium, MW-28 (mg/L)



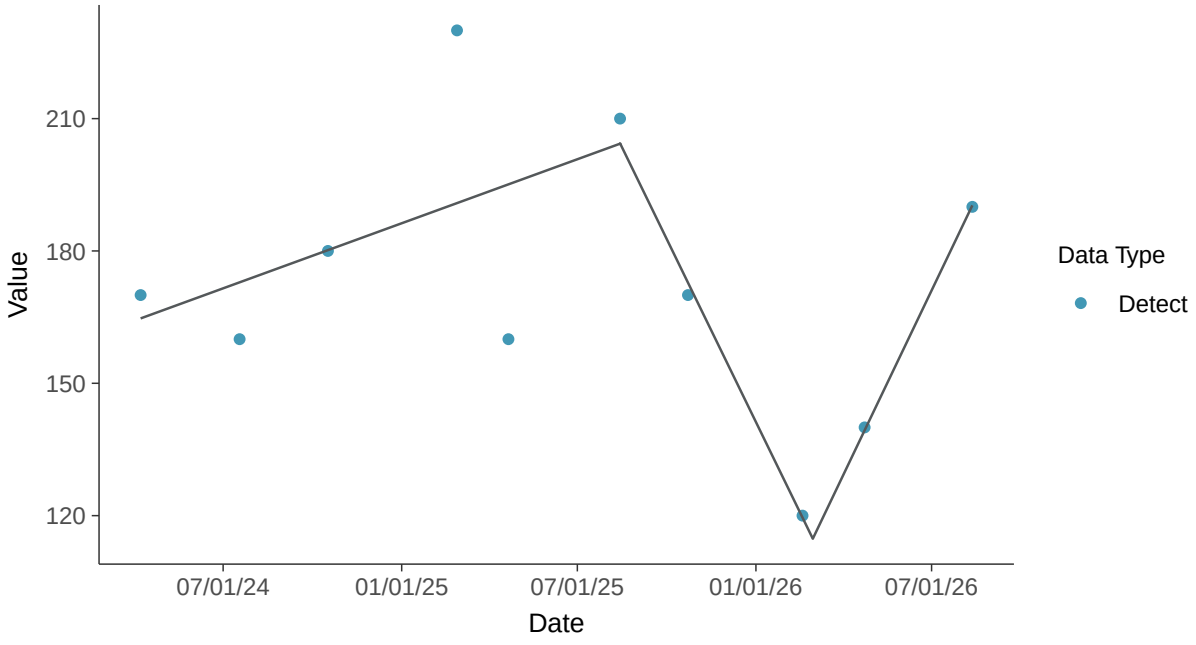
Trend Regression: Piecewise Linear-Linear

Calcium, MW-28 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Calcium, MW-28 (mg/L)

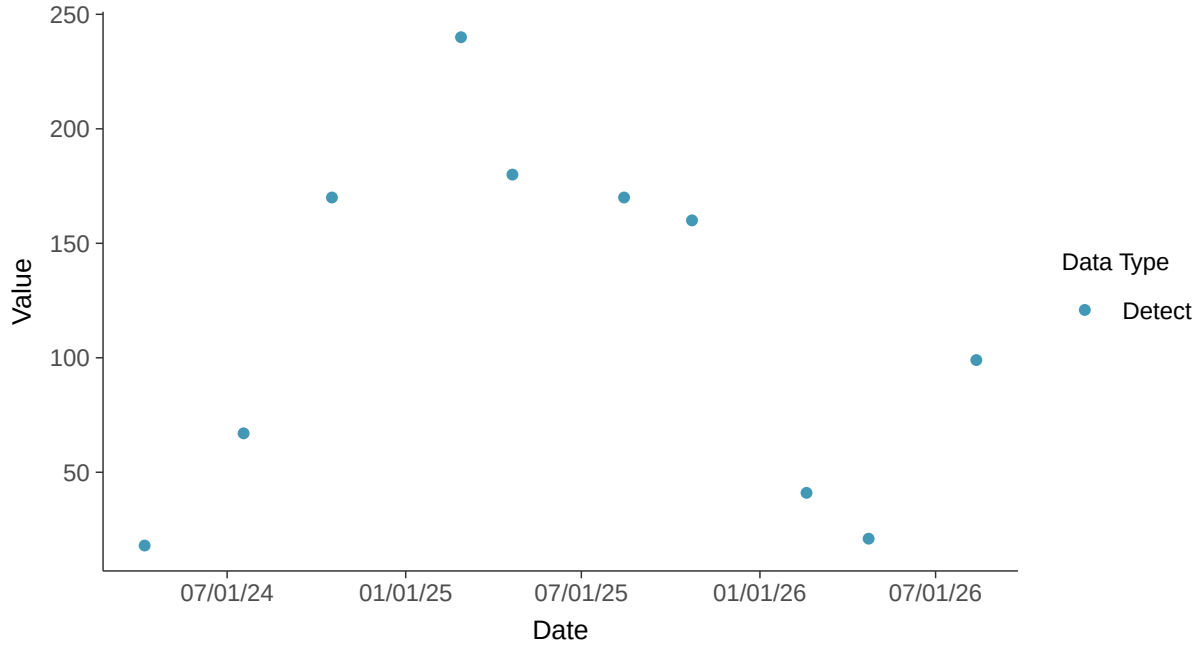


Appendix III: Chloride (as Cl), MW-28

ID: 38_1_3_108

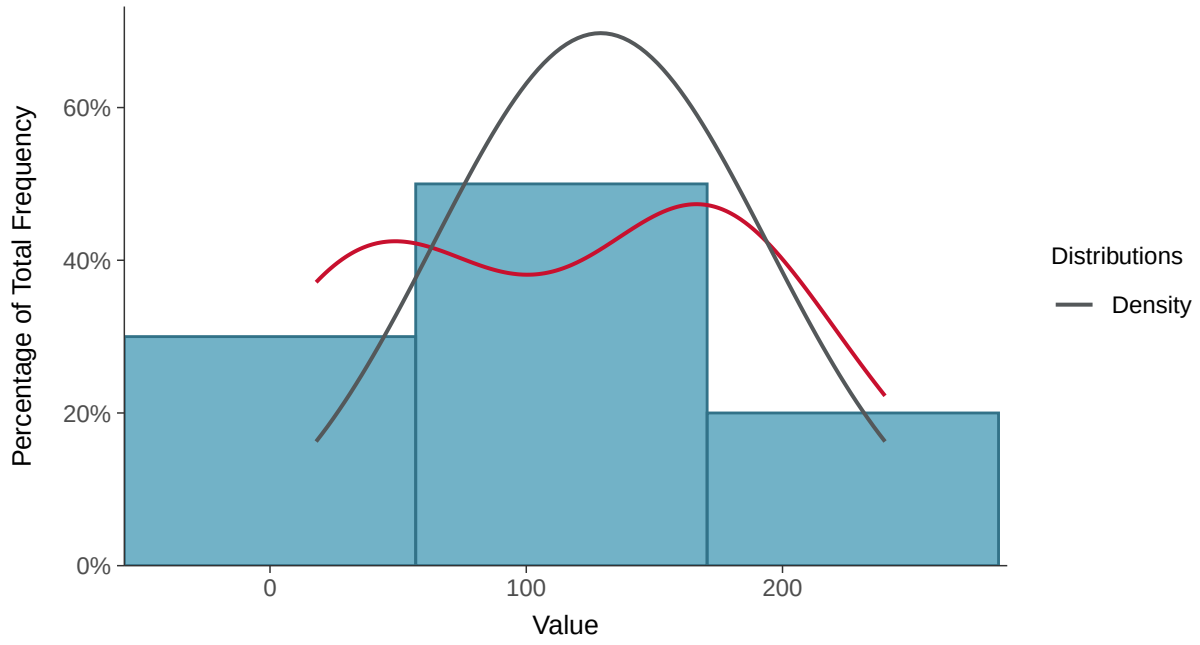
Scatter Plot

Chloride (as Cl), MW-28 (mg/L)



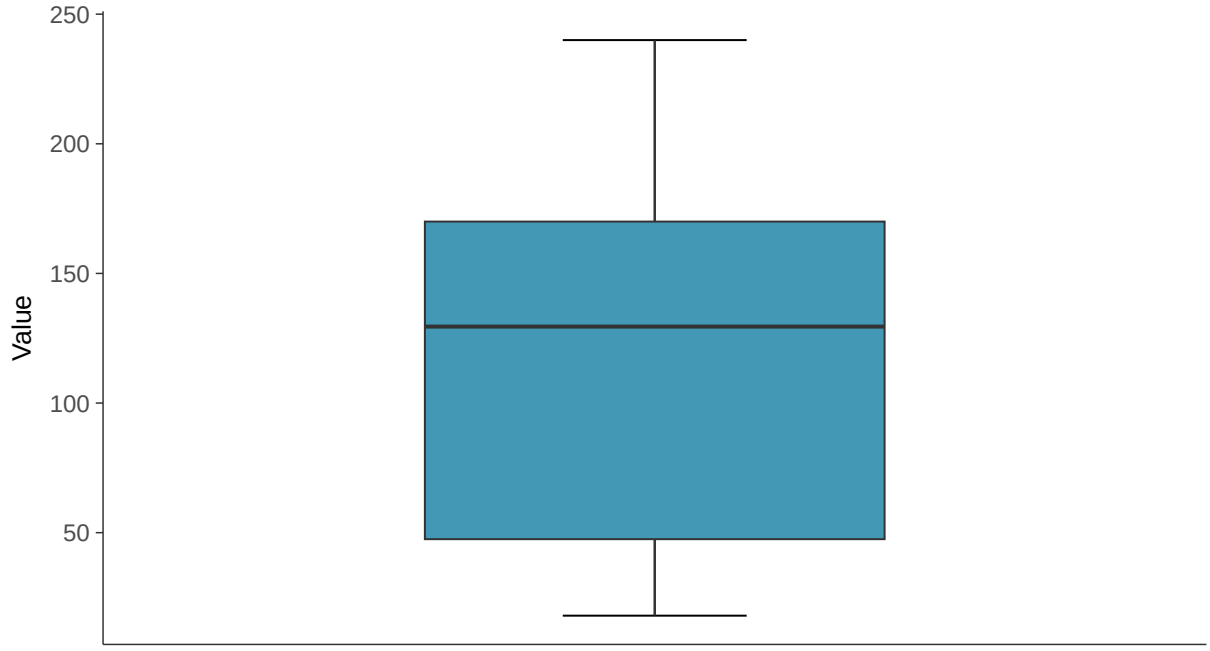
Histogram

Chloride (as Cl), MW-28 (mg/L)



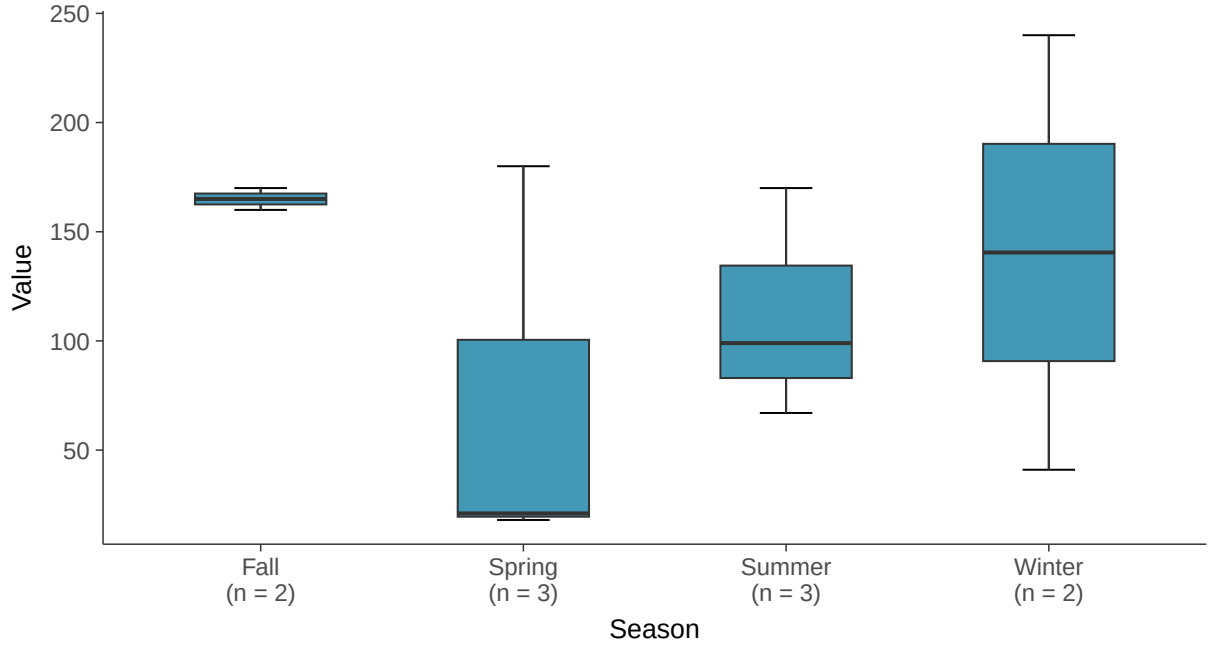
Boxplot

Chloride (as Cl), MW-28 (mg/L)



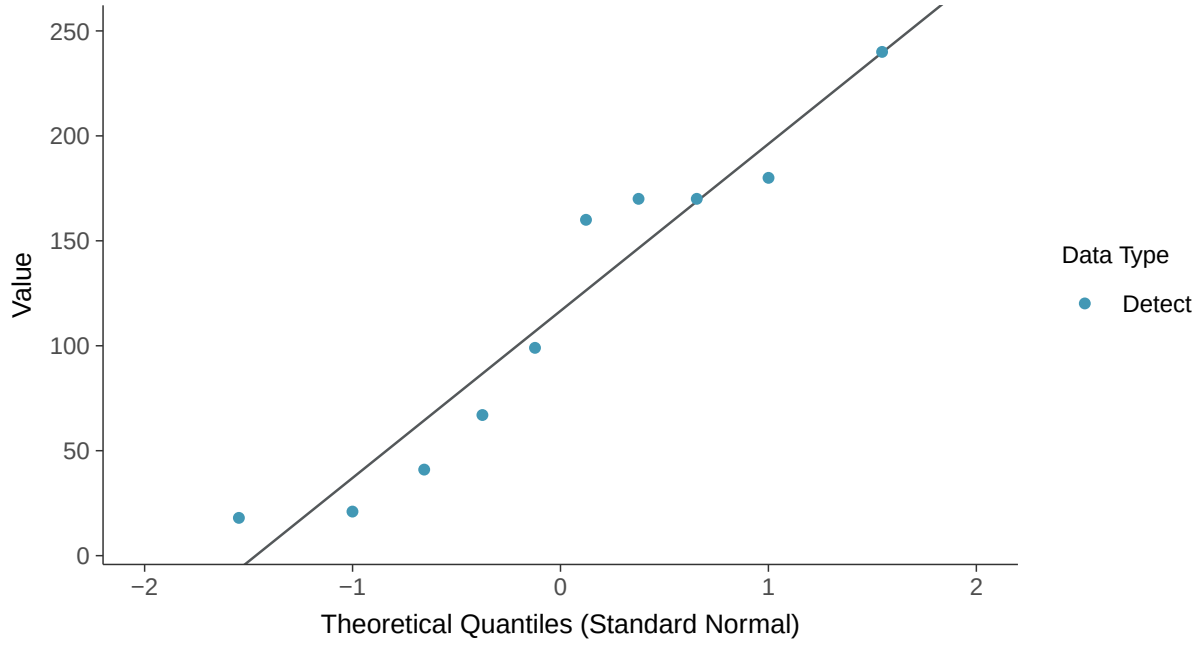
Boxplot by Season

Chloride (as Cl), MW-28 (mg/L)



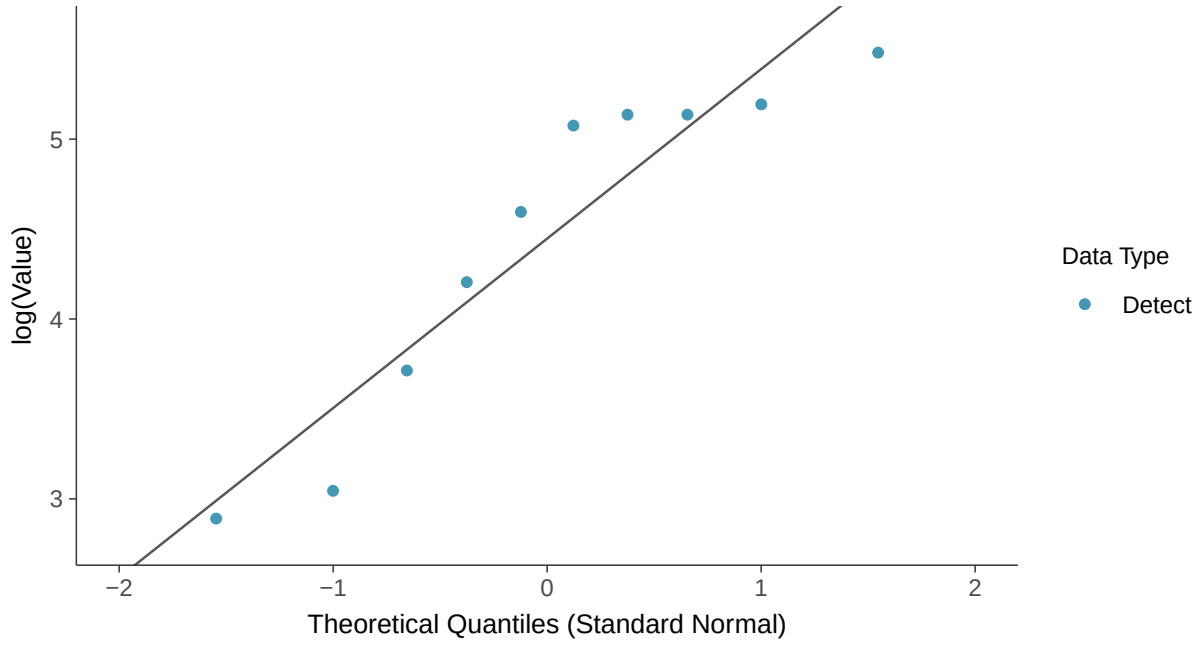
Normal Q-Q plot

Chloride (as Cl), MW-28 (mg/L)



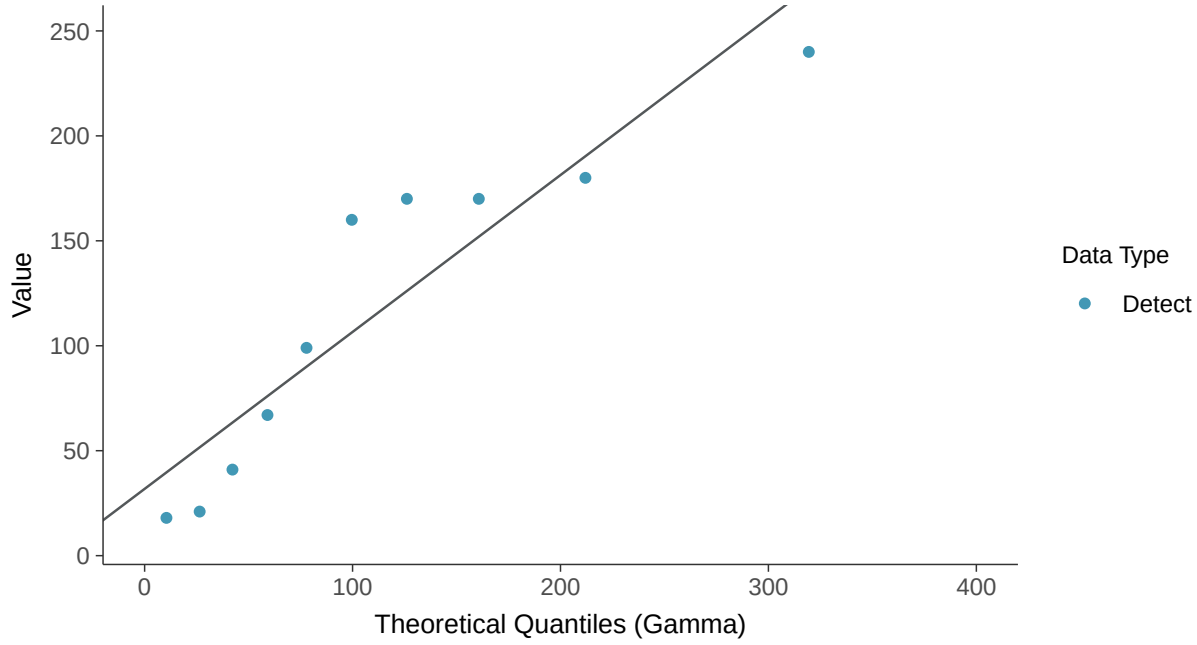
Lognormal Q-Q plot

Chloride (as Cl), MW-28 (mg/L)



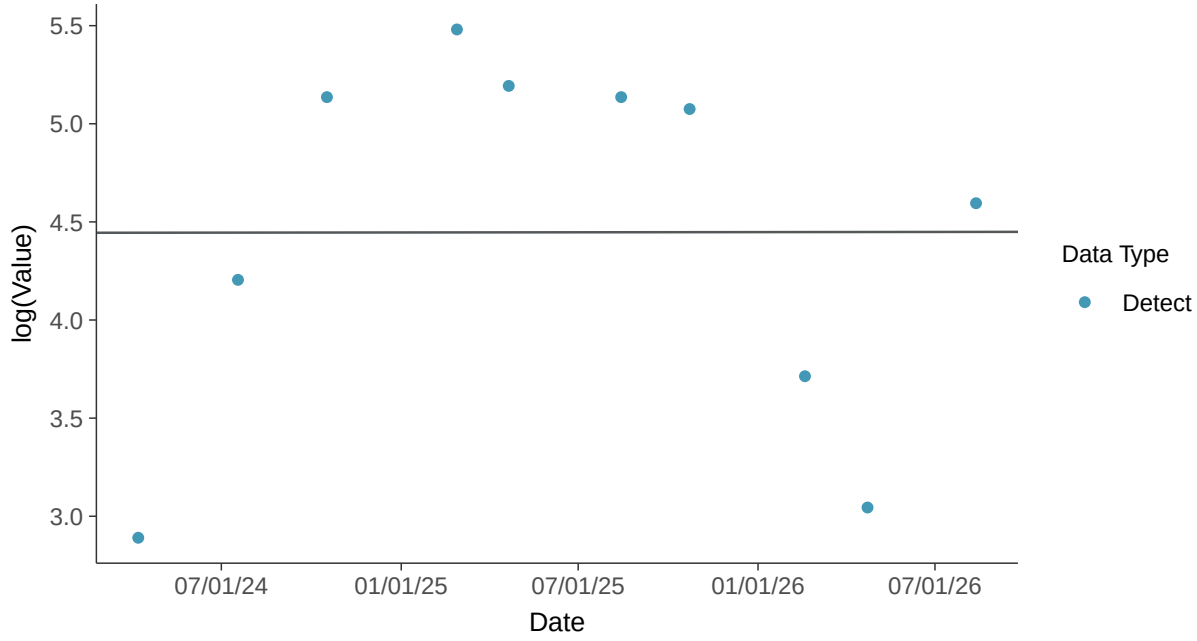
Gamma Q-Q plot

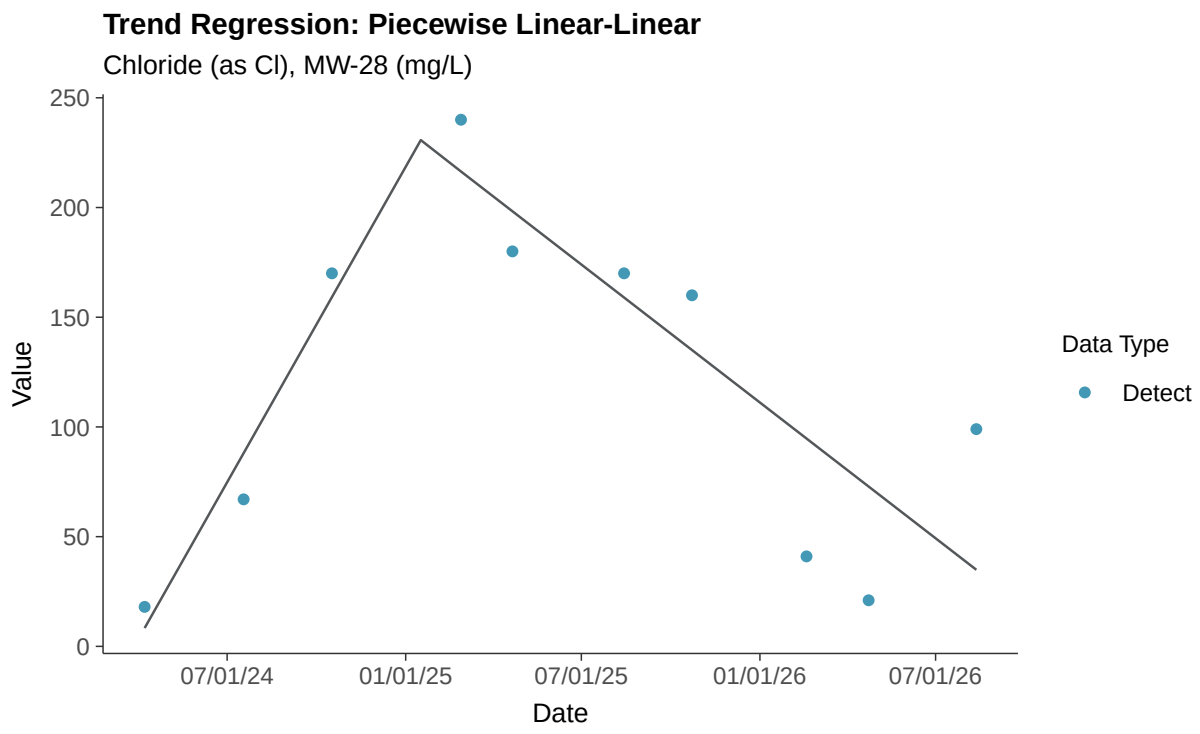
Chloride (as Cl), MW-28 (mg/L)



Trend Regression: Lognormal MLE

Chloride (as Cl), MW-28 (mg/L)



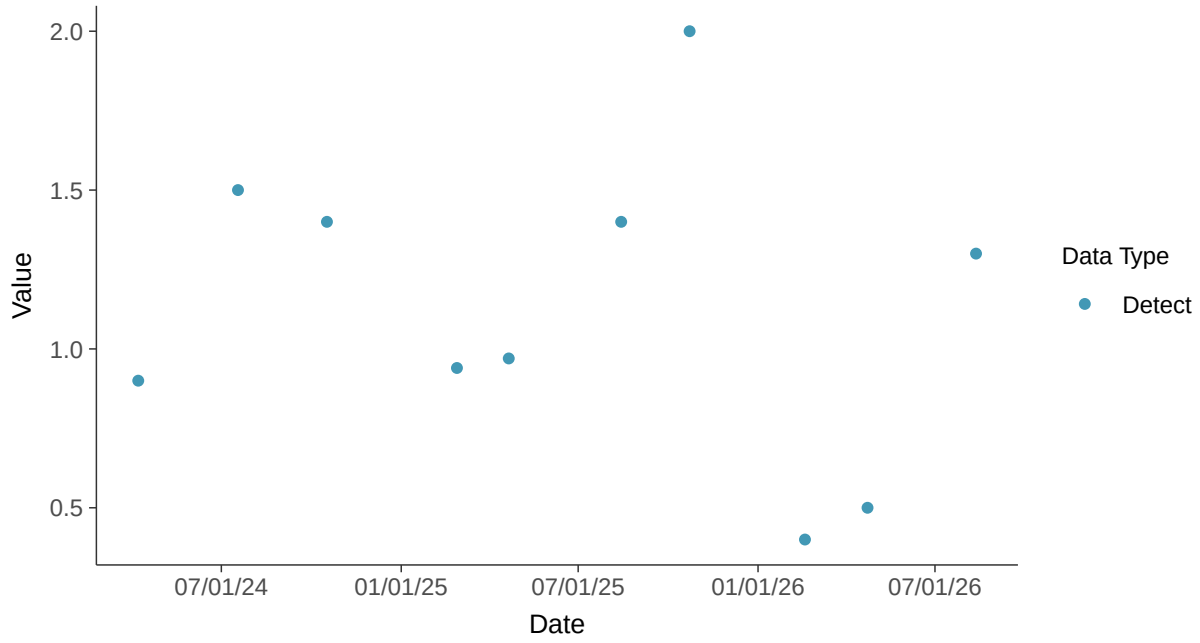

Trend Regression: Piecewise Linear-Linear
Chloride (as Cl), MW-28 (mg/L)
250
200
150
100
50
0
Value
07/01/24
01/01/25
07/01/25
01/01/26
07/01/26
Date
Data Type
Detect

Appendix III: Fluoride, MW-28

ID: 38_1_3_112

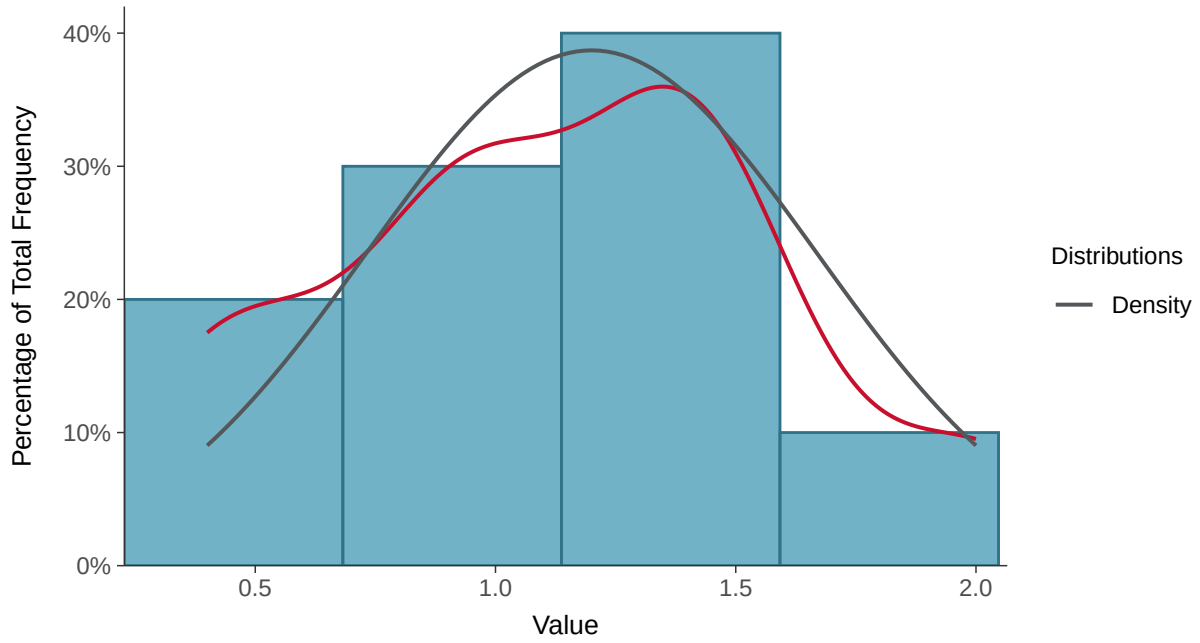
Scatter Plot

Fluoride, MW-28 (mg/L)



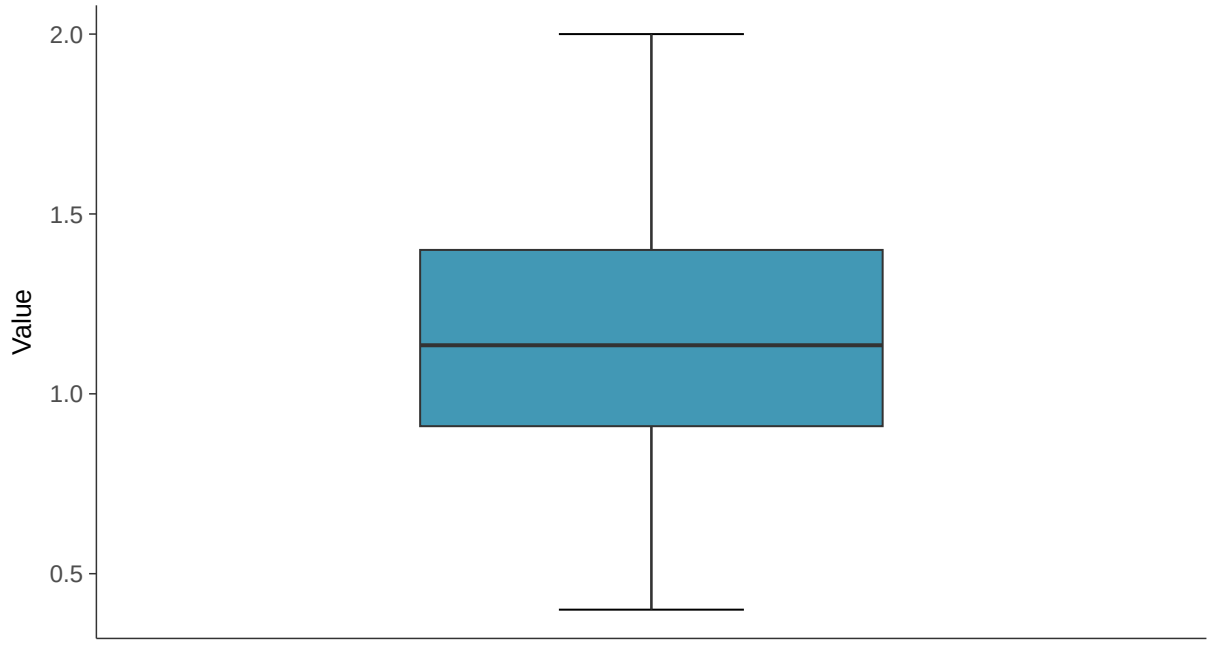
Histogram

Fluoride, MW-28 (mg/L)



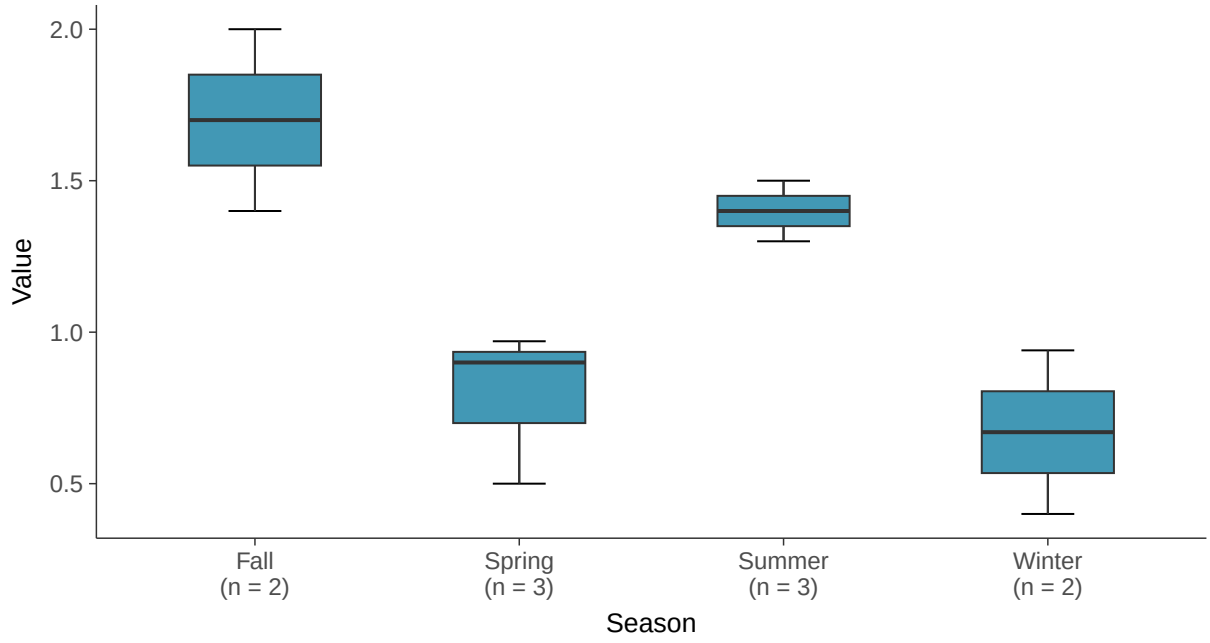
Boxplot

Fluoride, MW-28 (mg/L)



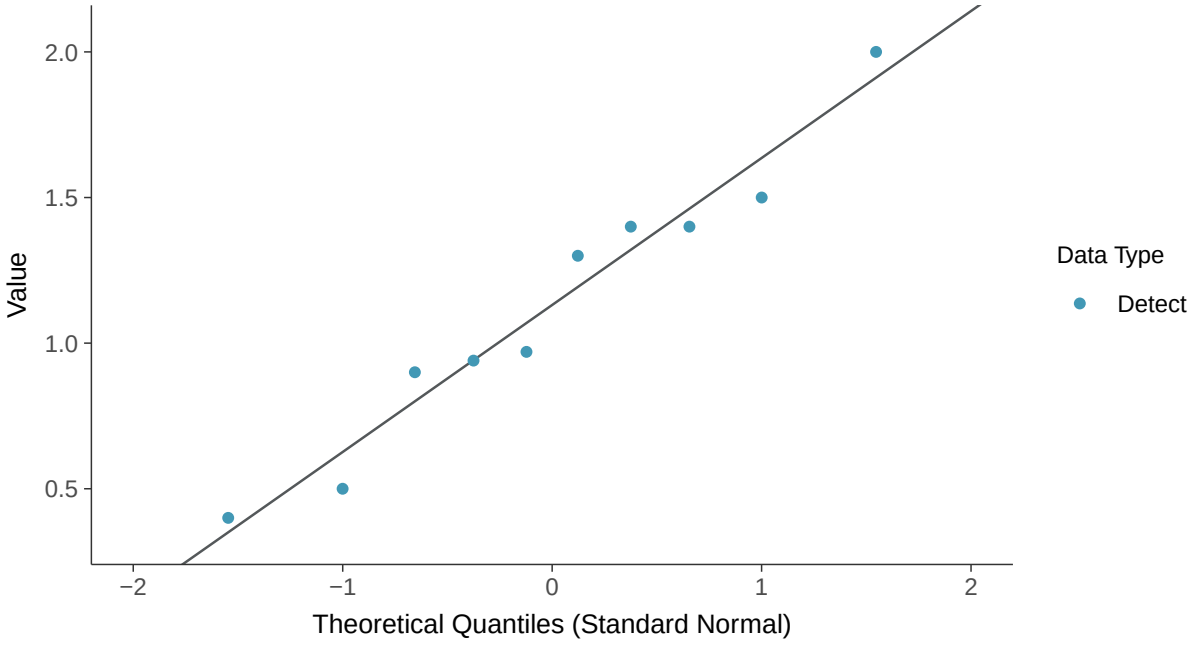
Boxplot by Season

Fluoride, MW-28 (mg/L)



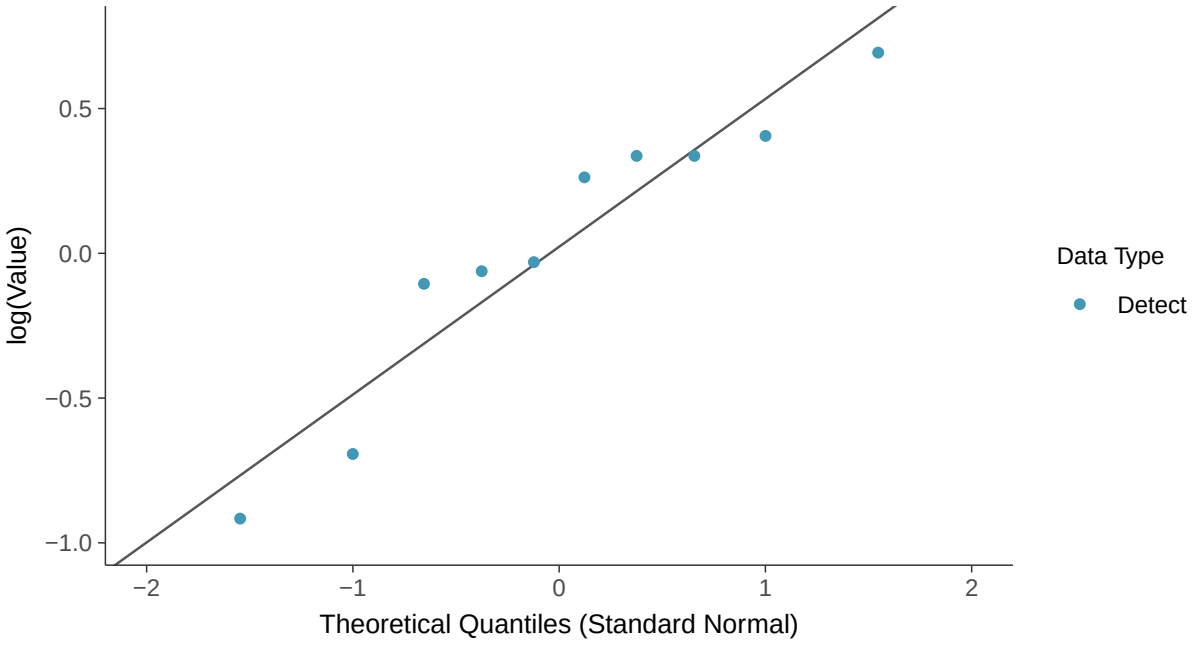
Normal Q-Q plot

Fluoride, MW-28 (mg/L)



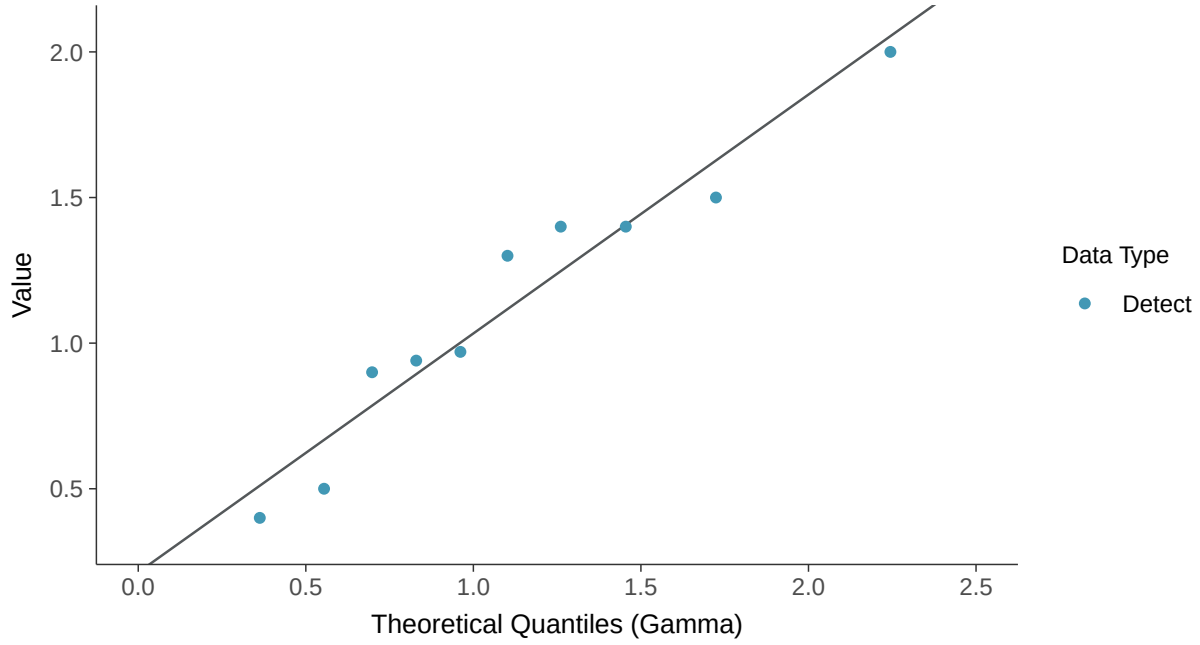
Lognormal Q-Q plot

Fluoride, MW-28 (mg/L)



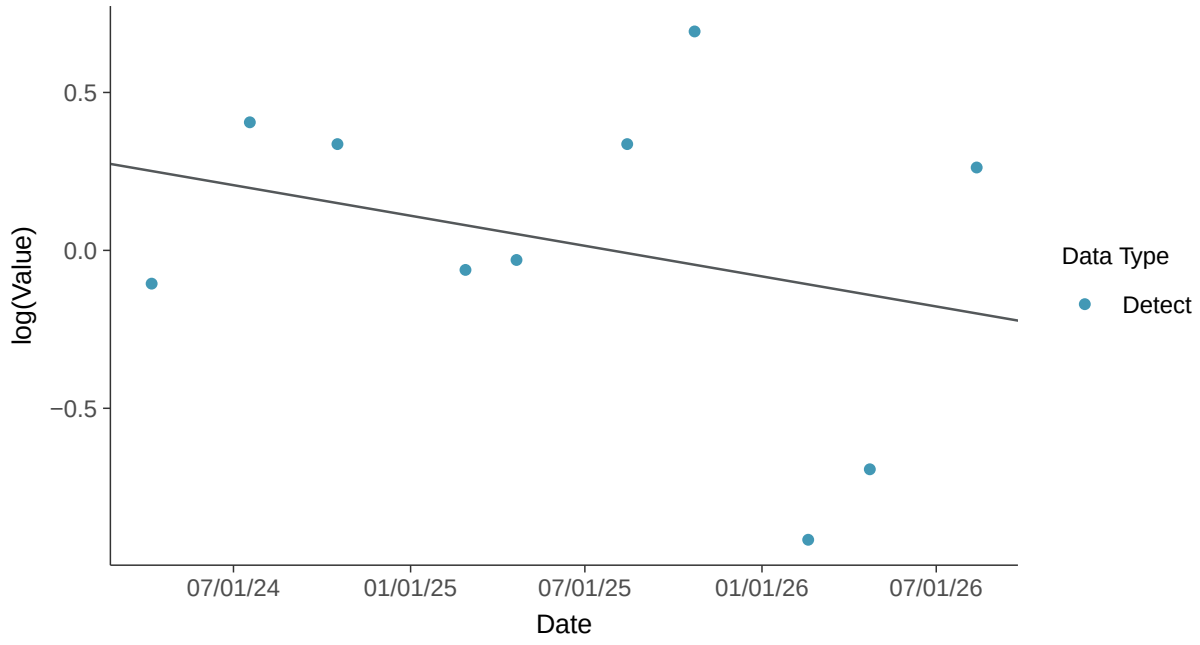
Gamma Q-Q plot

Fluoride, MW-28 (mg/L)



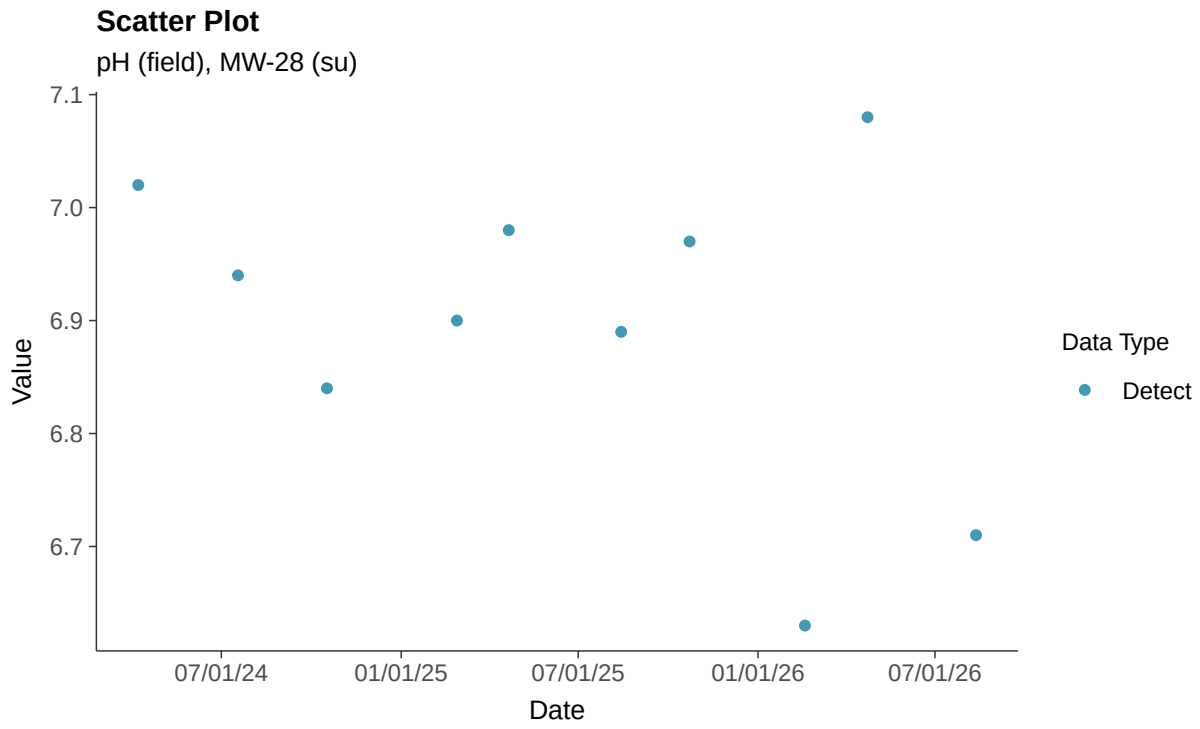
Trend Regression: Lognormal MLE

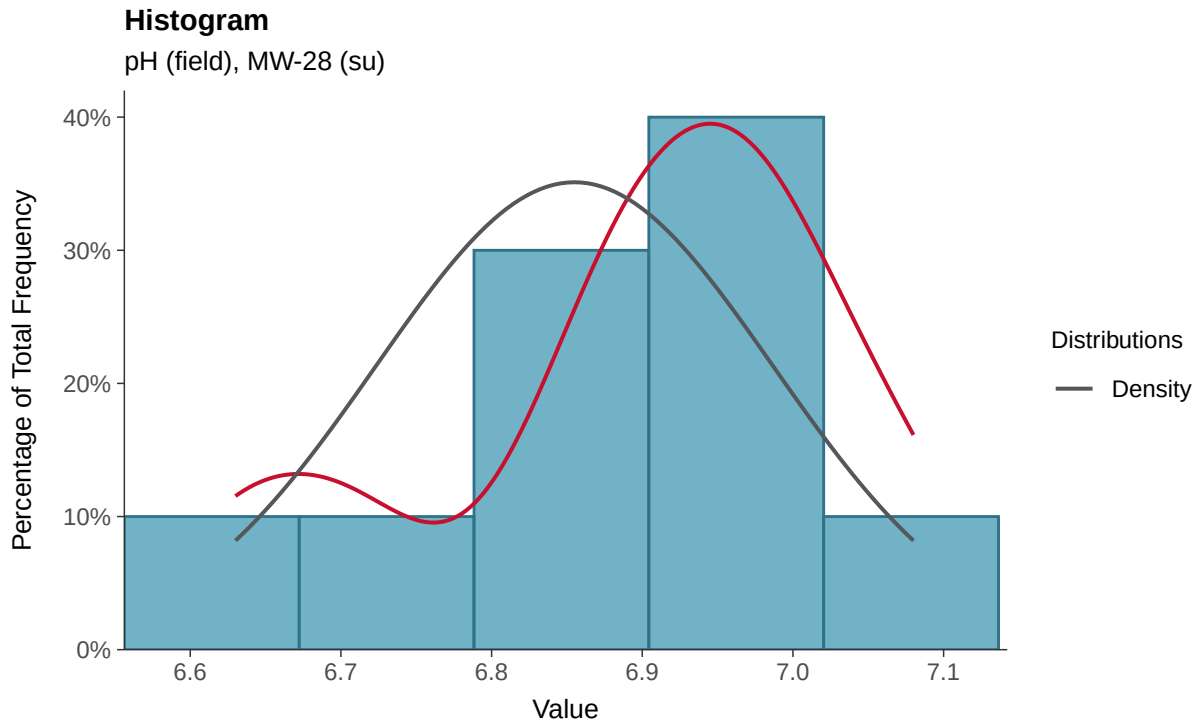
Fluoride, MW-28 (mg/L)



Appendix III: pH (field), MW-28

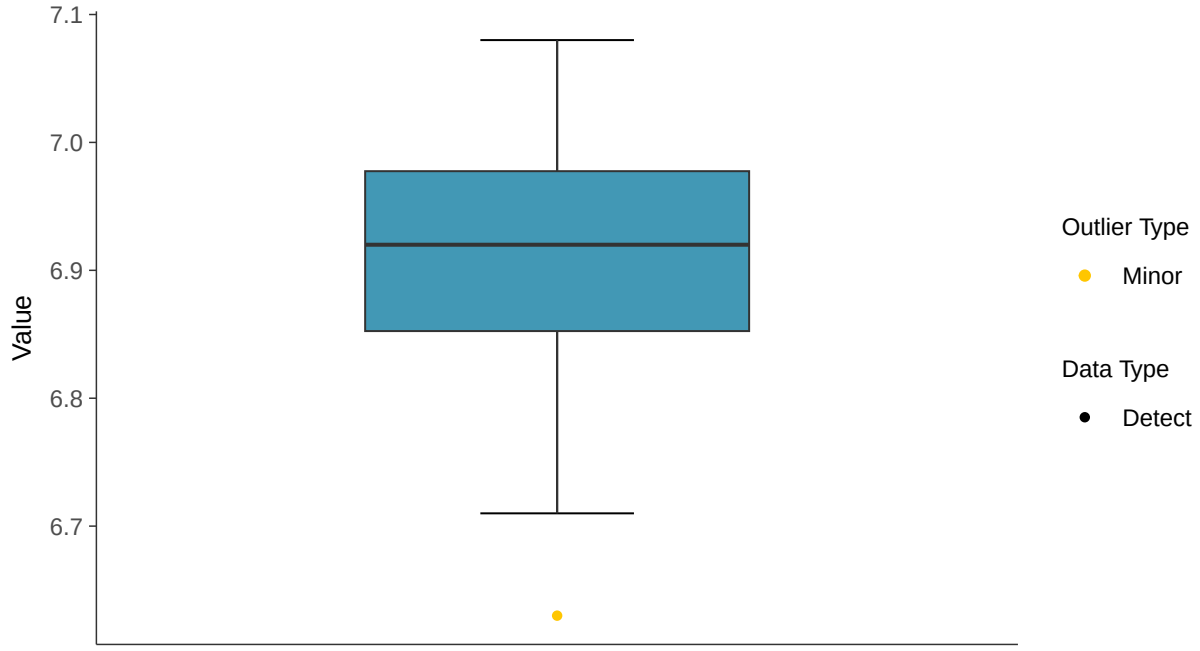
ID: 38_1_3_120





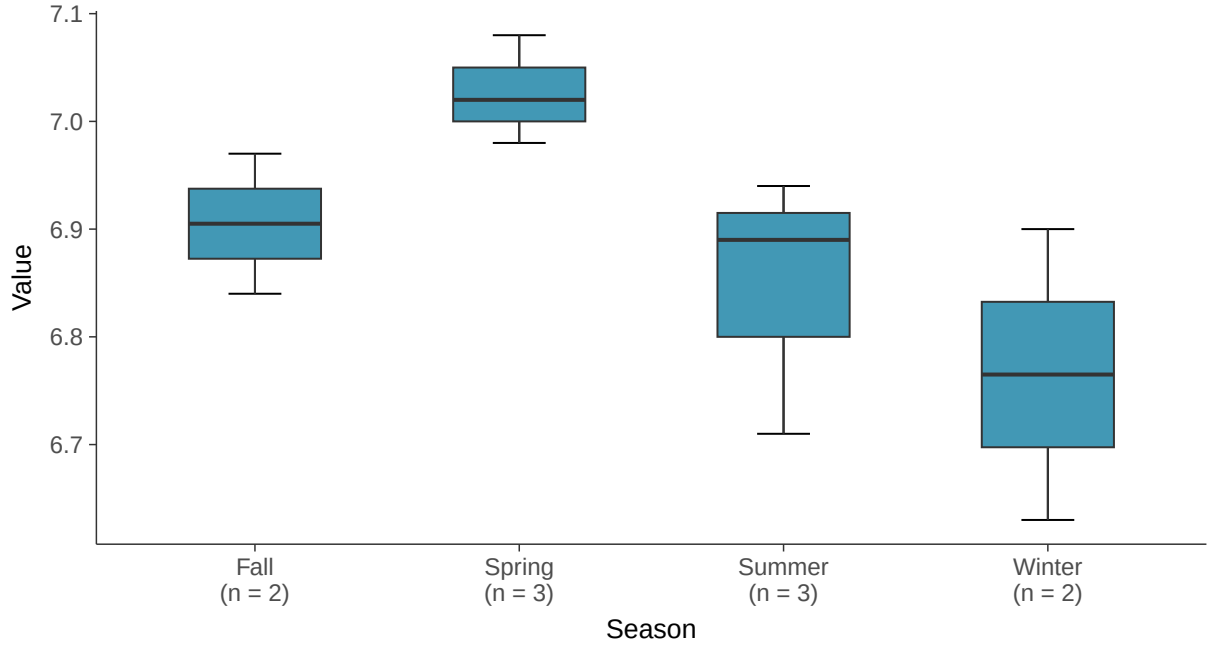
Boxplot

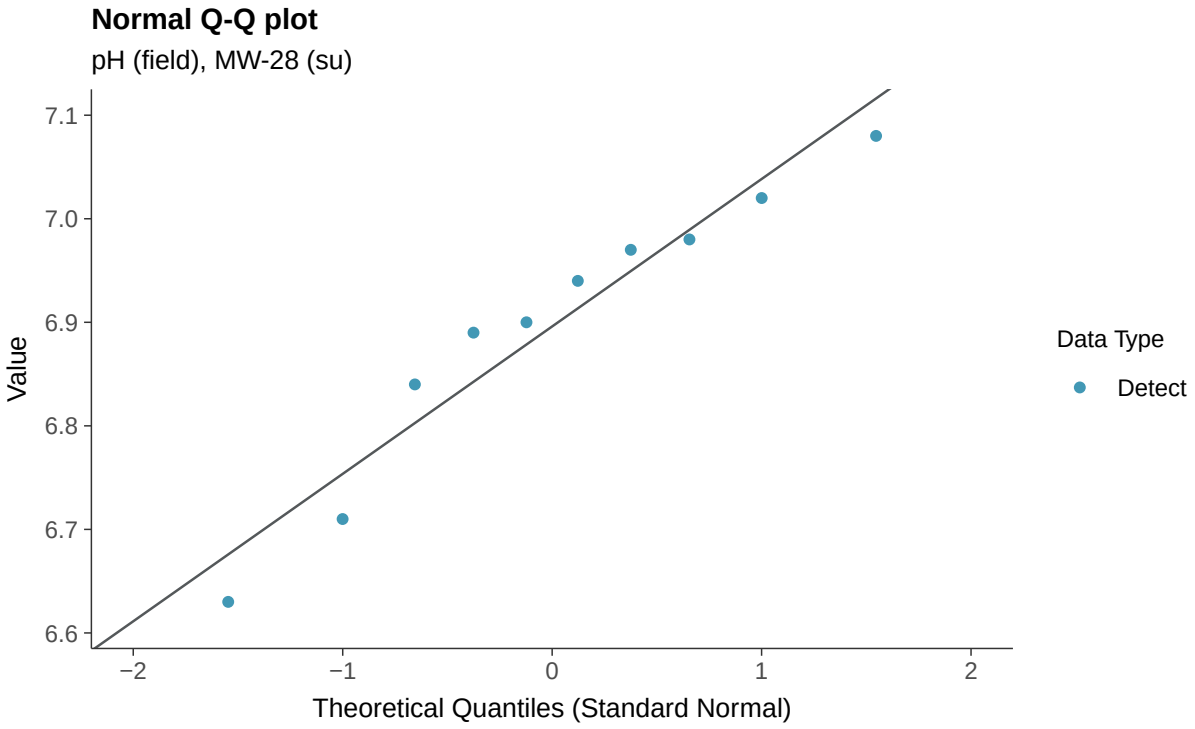
pH (field), MW-28 (su)

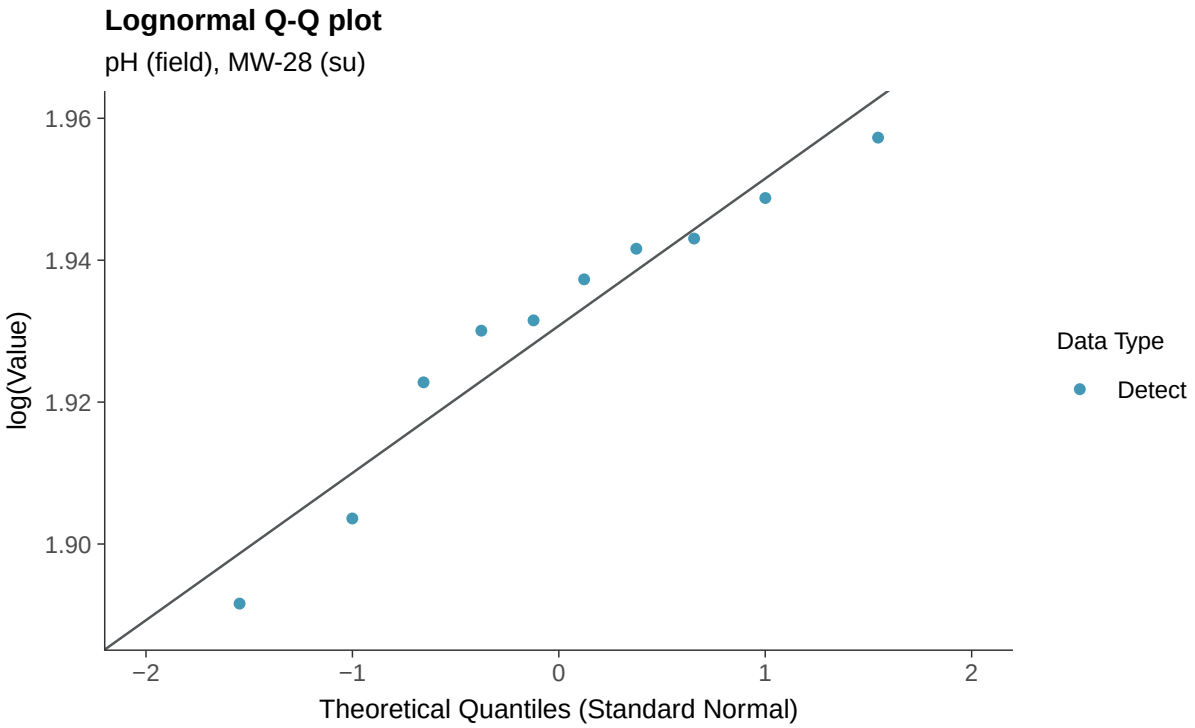


Boxplot by Season

pH (field), MW-28 (su)

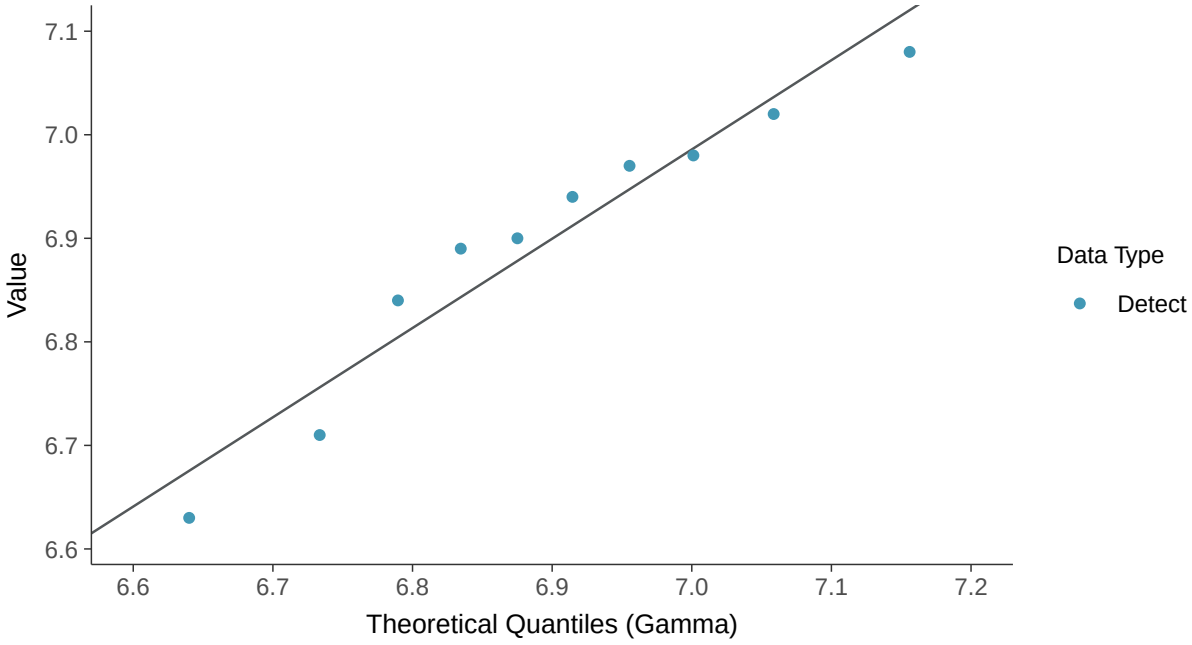



Normal Q-Q plot
pH (field), MW-28 (su)
Value
7.1
7.0
6.9
6.8
6.7
6.6
−2
−1
0
1
2
Theoretical Quantiles (Standard Normal)
Data Type
Detect


Lognormal Q-Q plot
pH (field), MW-28 (su)
log(Value)
1.96
1.94
1.92
1.90
−2
−1
0
1
2
Theoretical Quantiles (Standard Normal)
Data Type
Detect

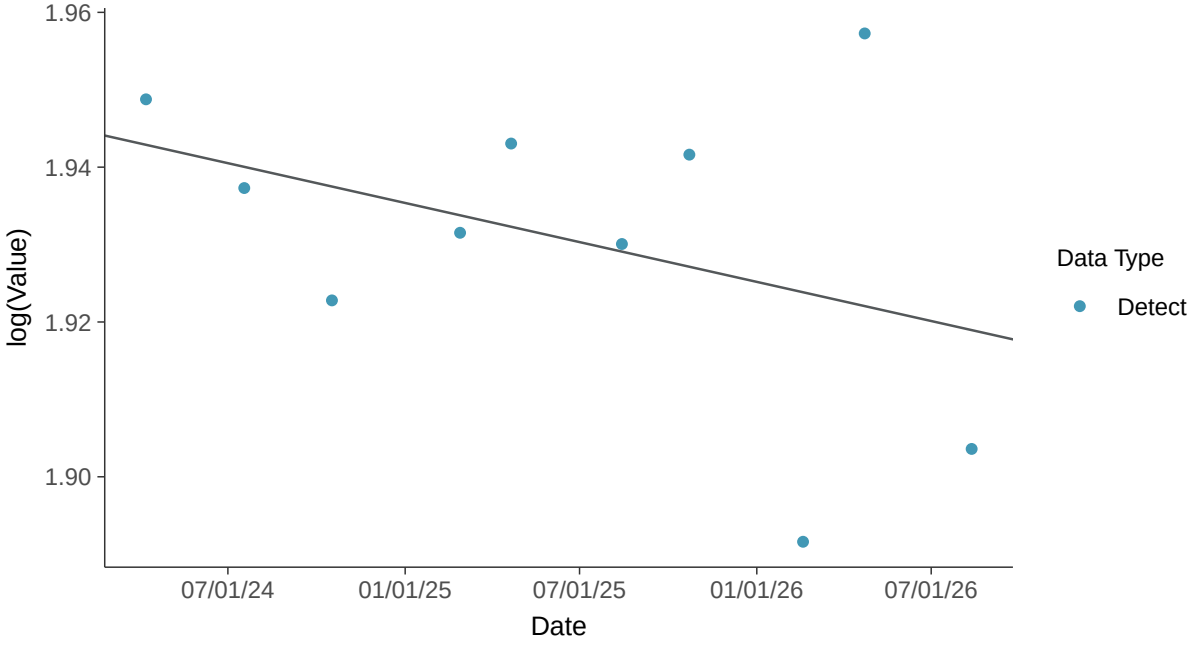
Gamma Q-Q plot

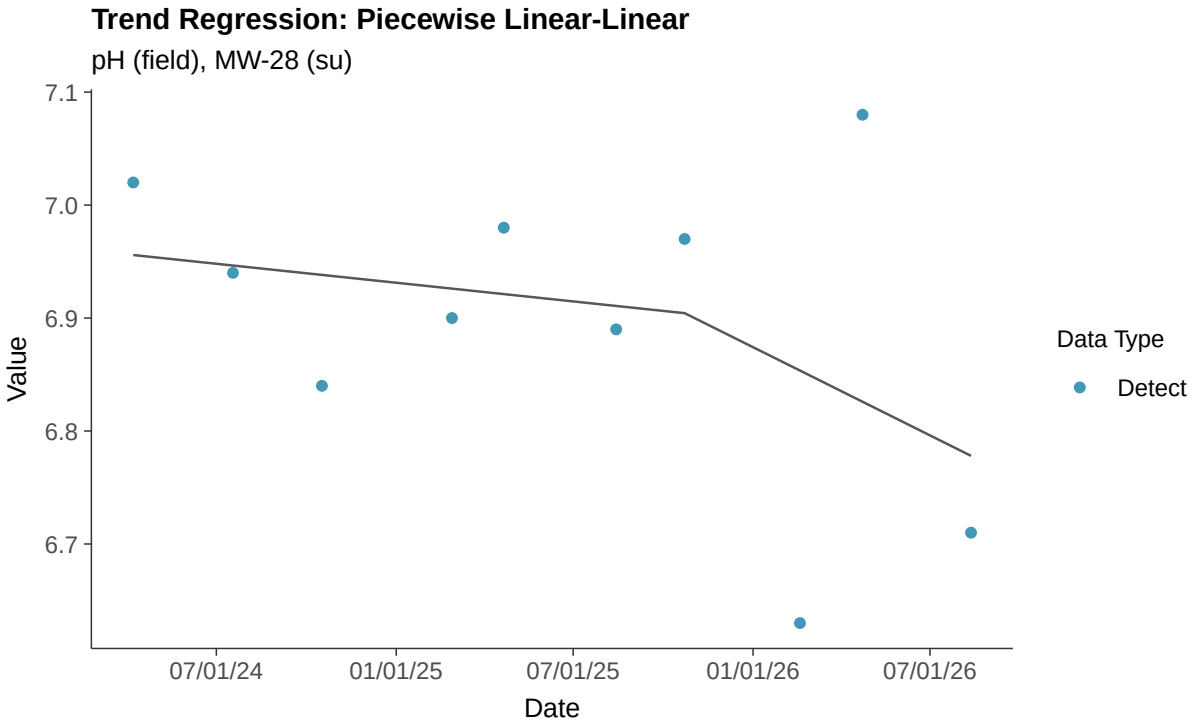
pH (field), MW-28 (su)



Trend Regression: Lognormal MLE

pH (field), MW-28 (su)



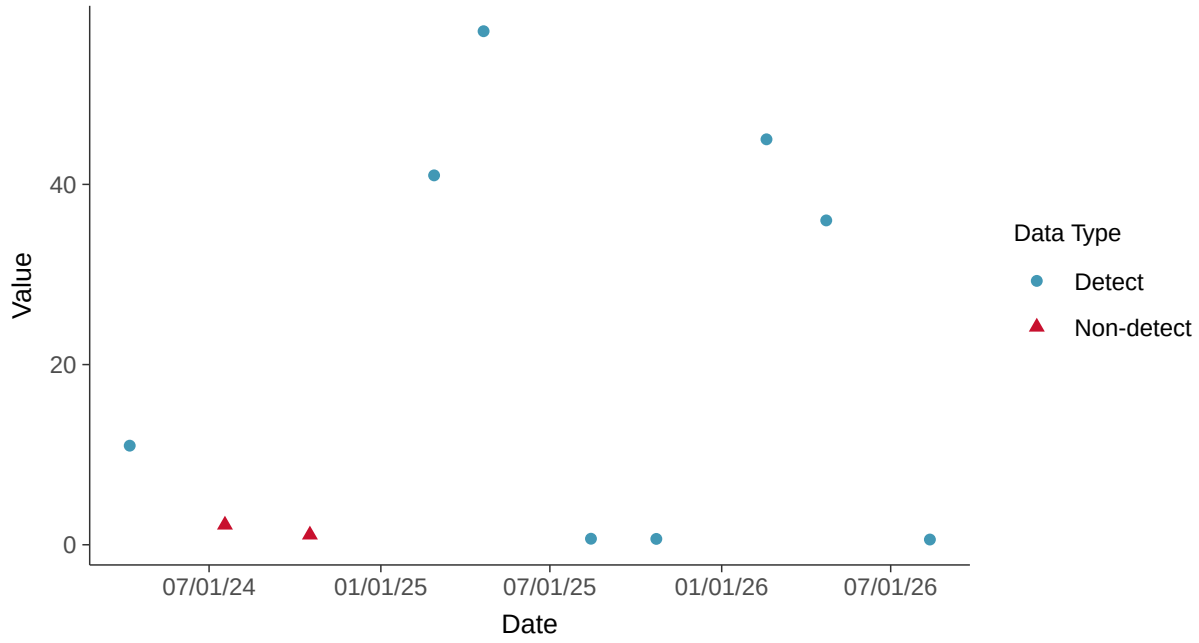

Trend Regression: Piecewise Linear-Linear
pH (field), MW-28 (su)
Value
7.1
7.0
6.9
6.8
6.7
07/01/24
01/01/25
07/01/25
01/01/26
07/01/26
Date
Data Type
Detect

Appendix III: Sulfate (as SO4), MW-28

ID: 38_1_3_124

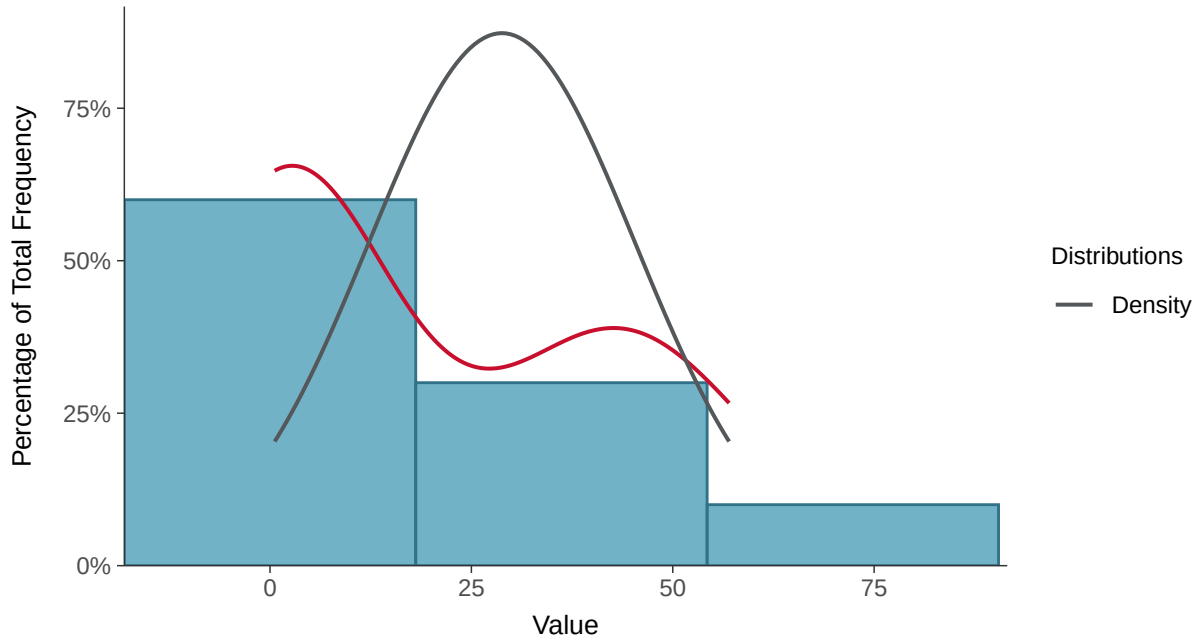
Scatter Plot

Sulfate (as SO4), MW-28 (mg/L)



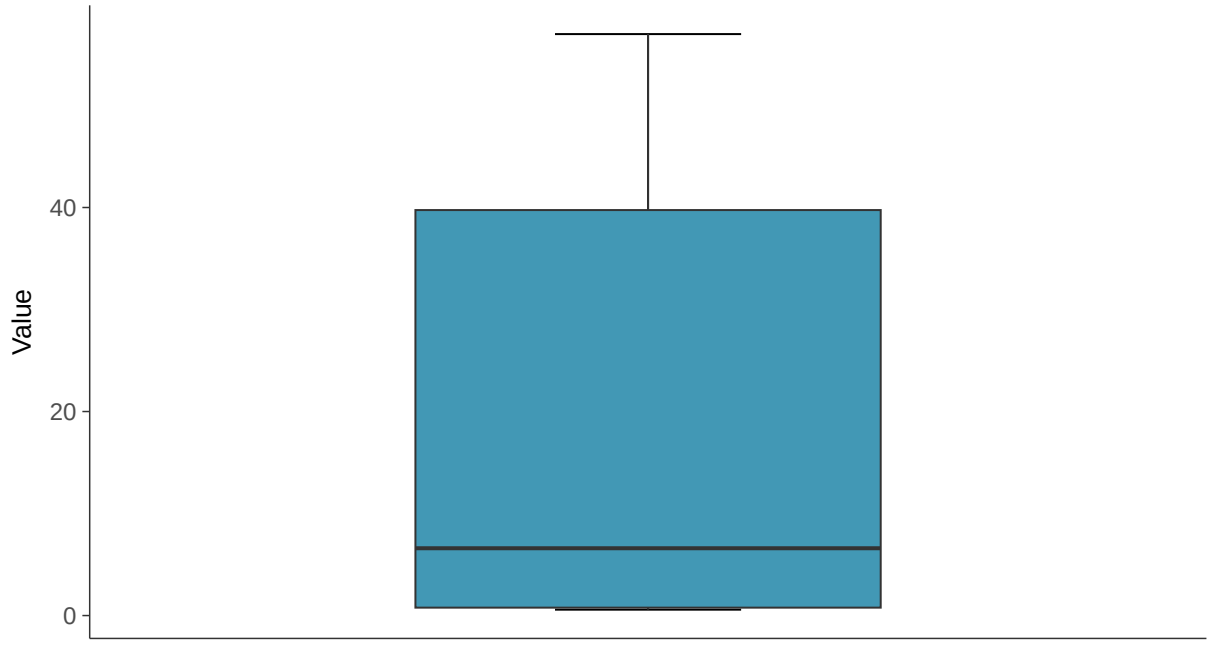
Histogram

Sulfate (as SO4), MW-28 (mg/L)



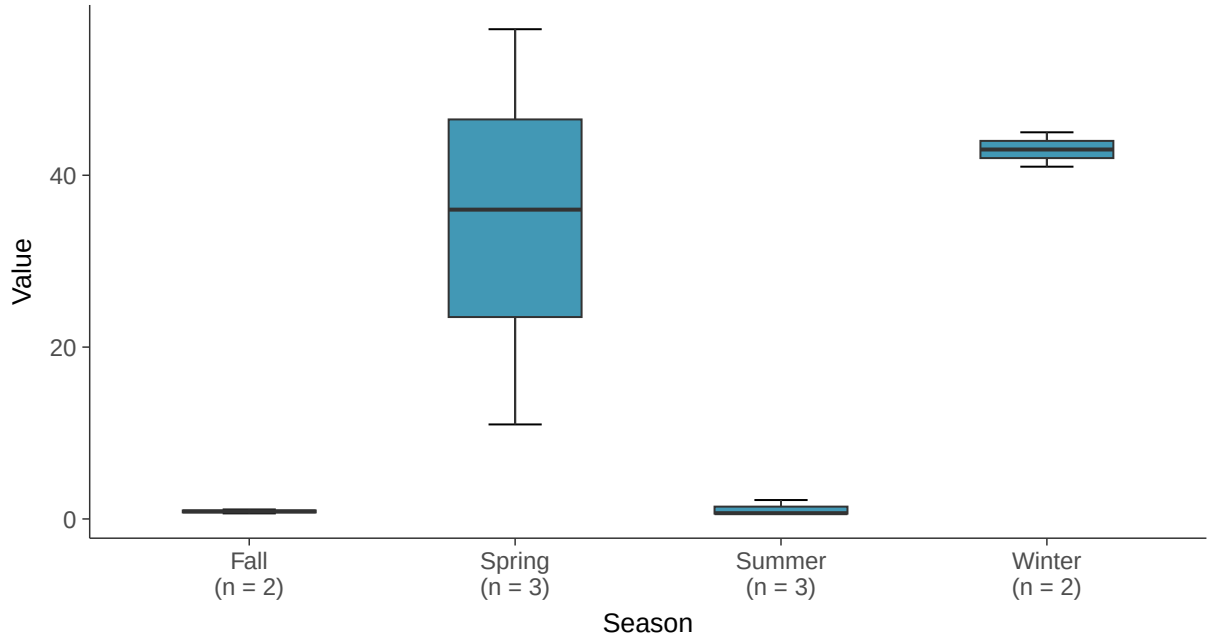
Boxplot

Sulfate (as SO4), MW-28 (mg/L)



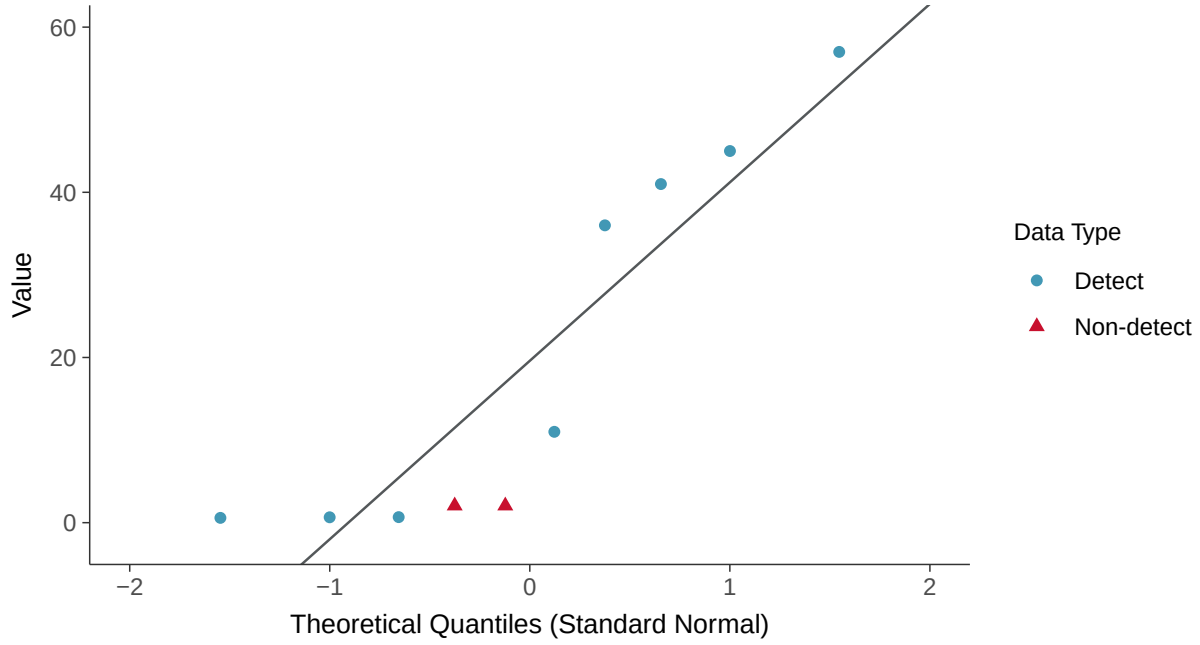
Boxplot by Season

Sulfate (as SO4), MW-28 (mg/L)



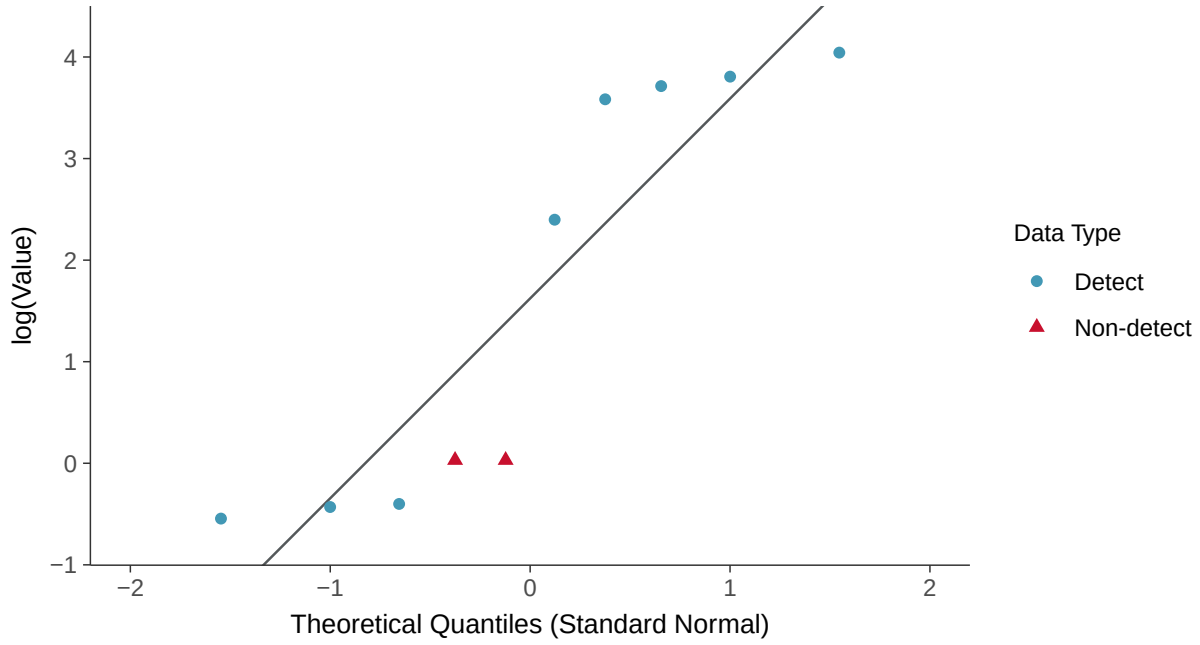
Normal Q-Q plot using ROS Imputed Estimates

Sulfate (as SO4), MW-28 (mg/L)



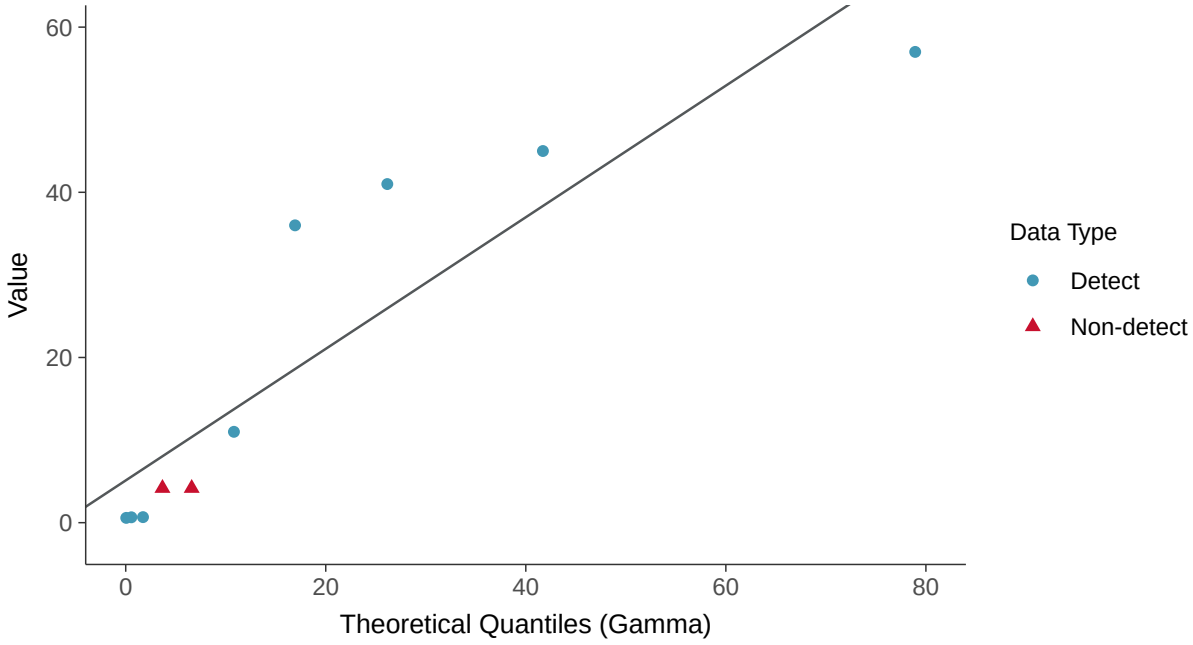
Lognormal Q-Q plot using ROS Imputed Estimates

Sulfate (as SO4), MW-28 (mg/L)



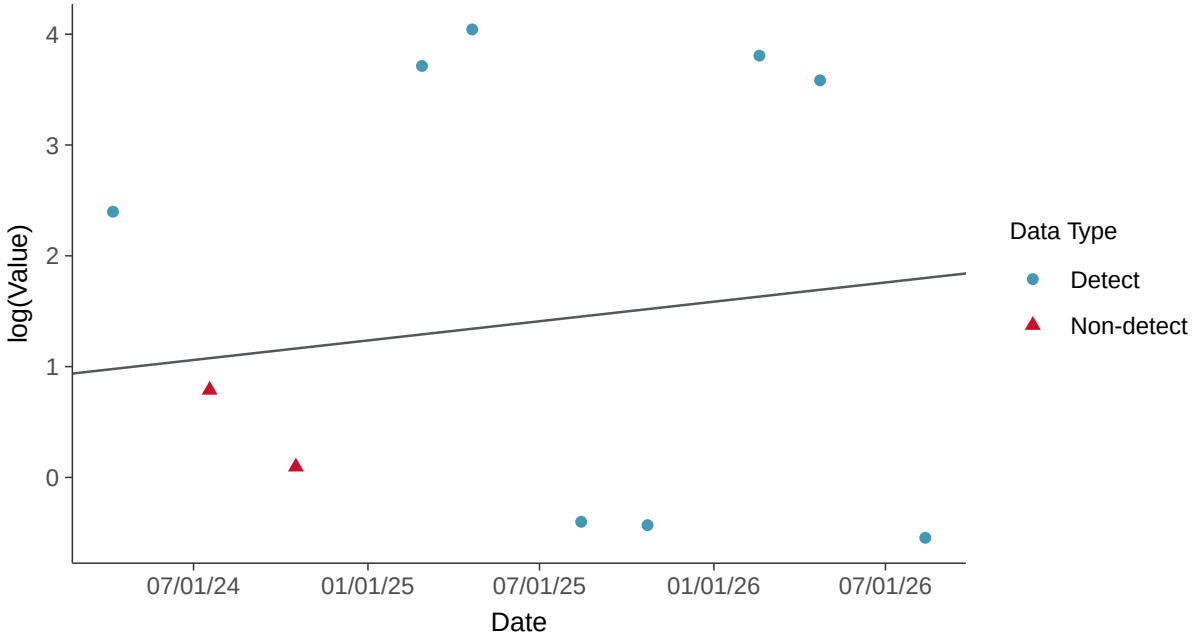
Gamma Q-Q plot using ROS Imputed Estimates

Sulfate (as SO4), MW-28 (mg/L)



Trend Regression: Lognormal MLE

Sulfate (as SO4), MW-28 (mg/L)

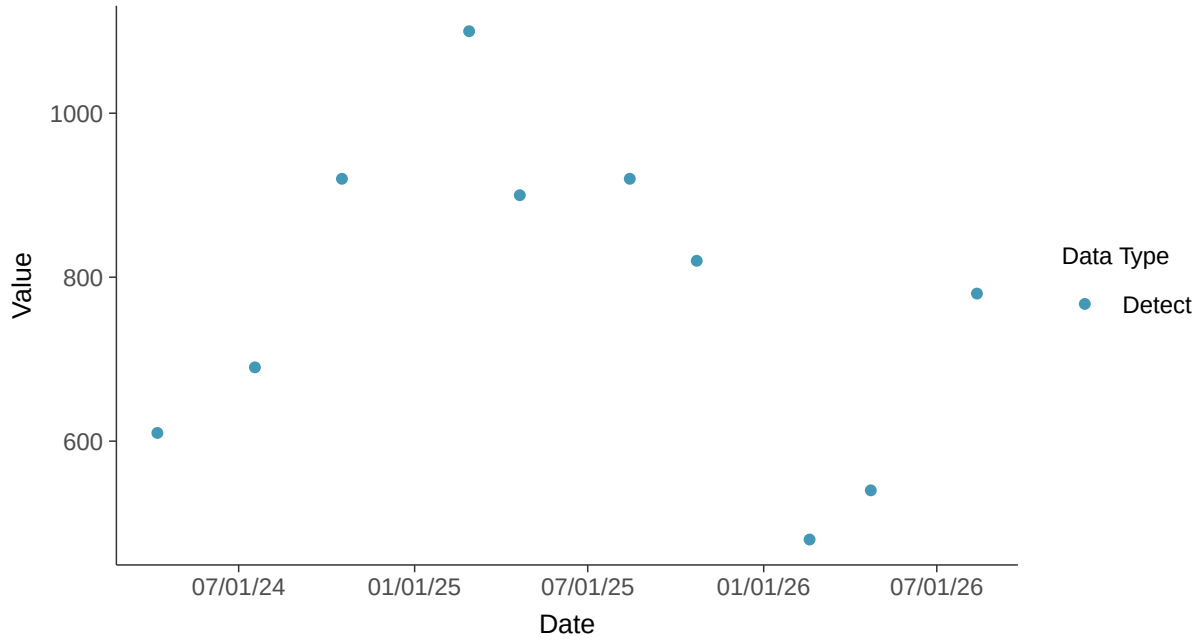


Appendix III: Total Dissolved Solids, MW-28

ID: 38_1_3_126

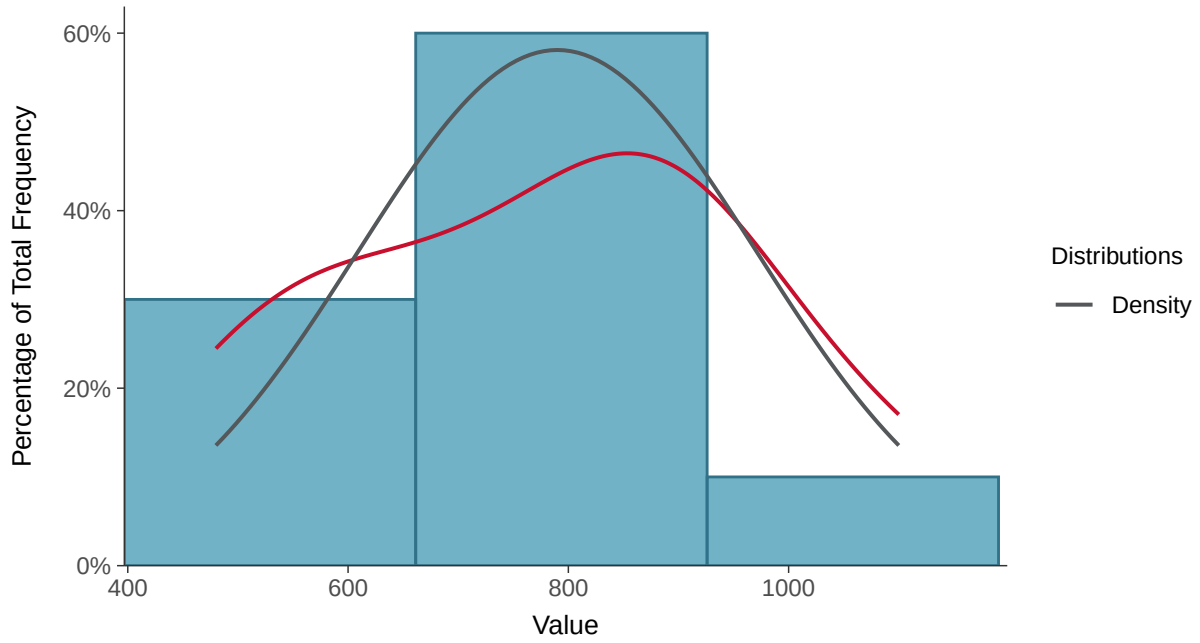
Scatter Plot

Total Dissolved Solids, MW-28 (mg/L)



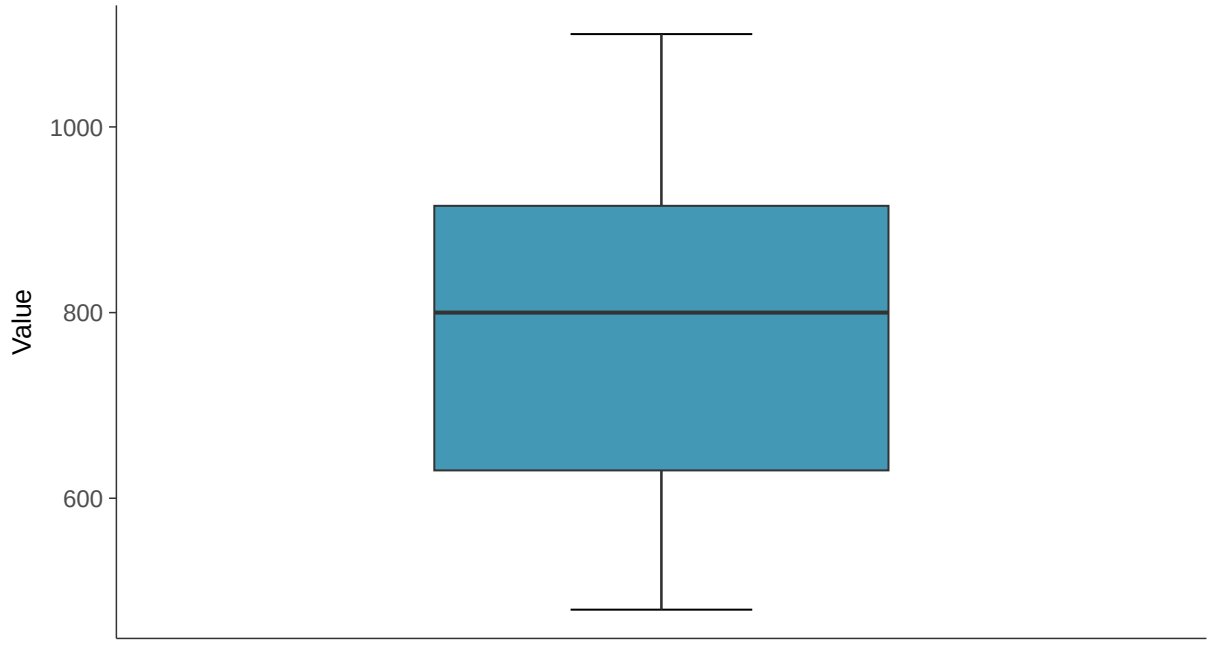
Histogram

Total Dissolved Solids, MW-28 (mg/L)



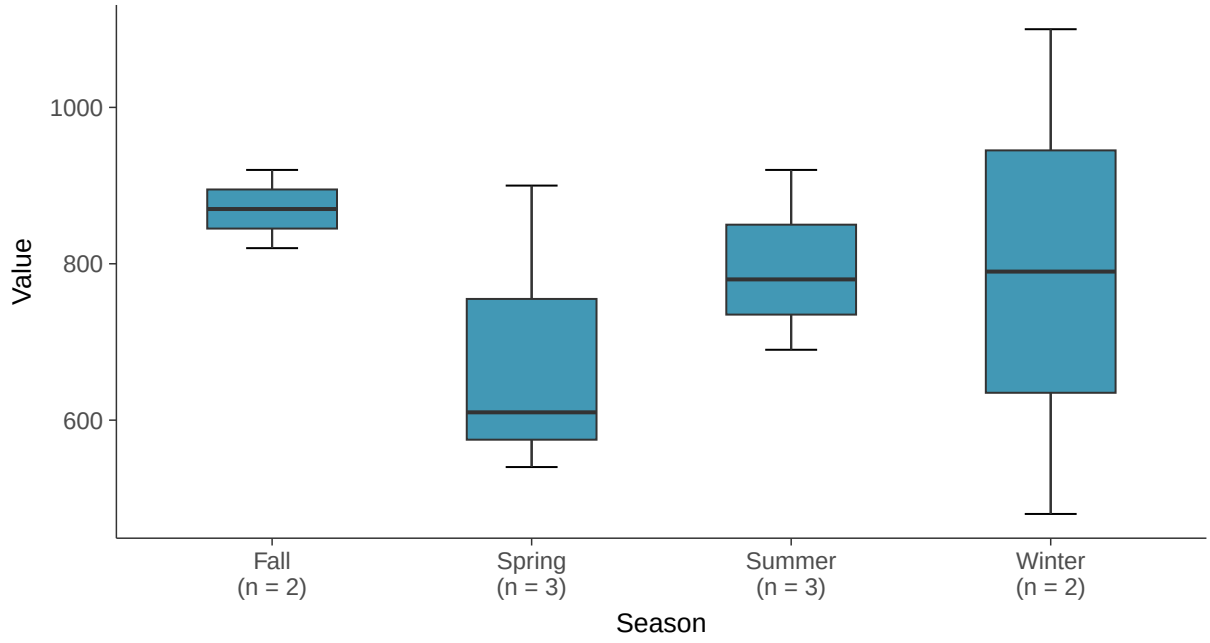
Boxplot

Total Dissolved Solids, MW-28 (mg/L)



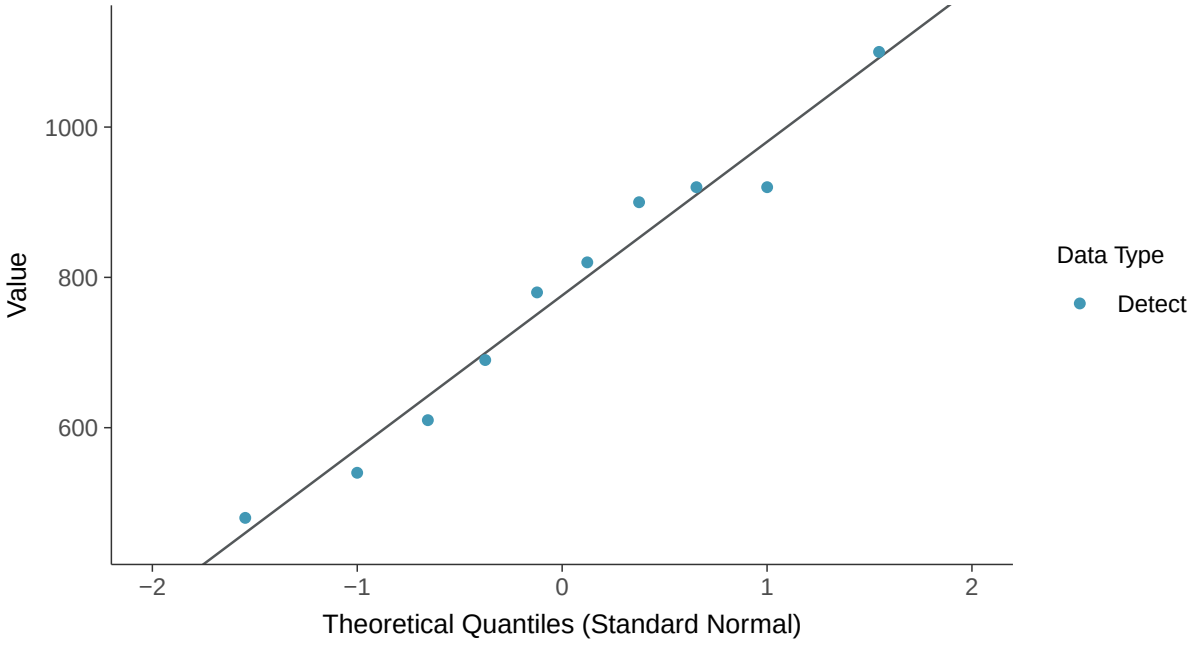
Boxplot by Season

Total Dissolved Solids, MW-28 (mg/L)



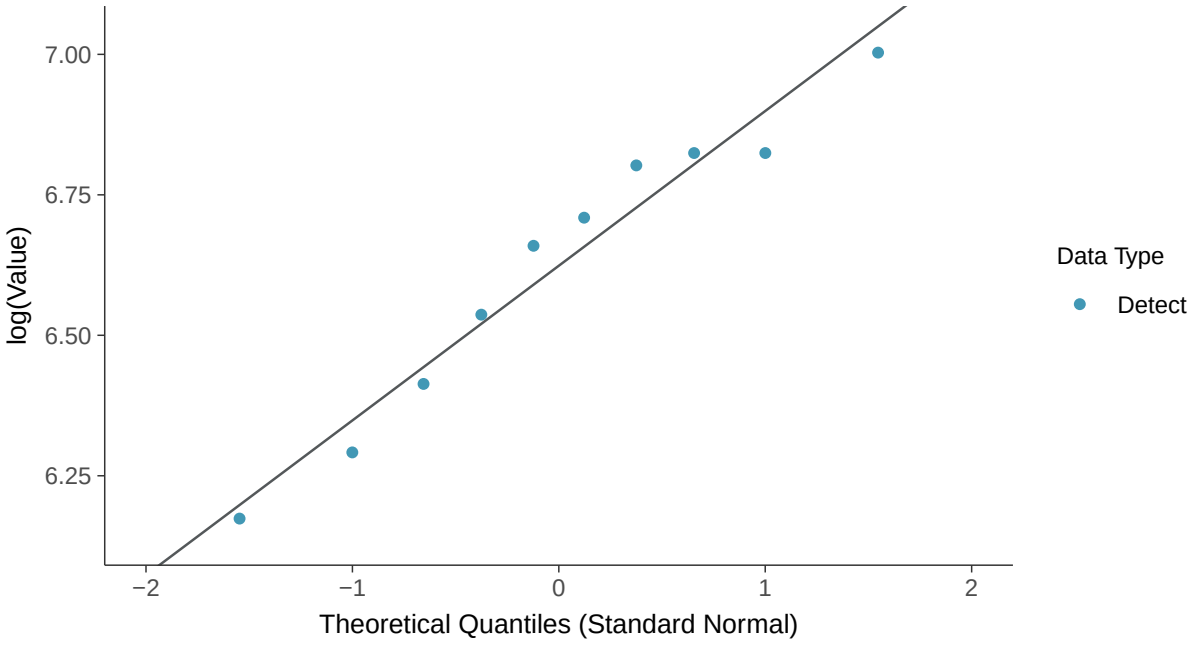
Normal Q-Q plot

Total Dissolved Solids, MW-28 (mg/L)



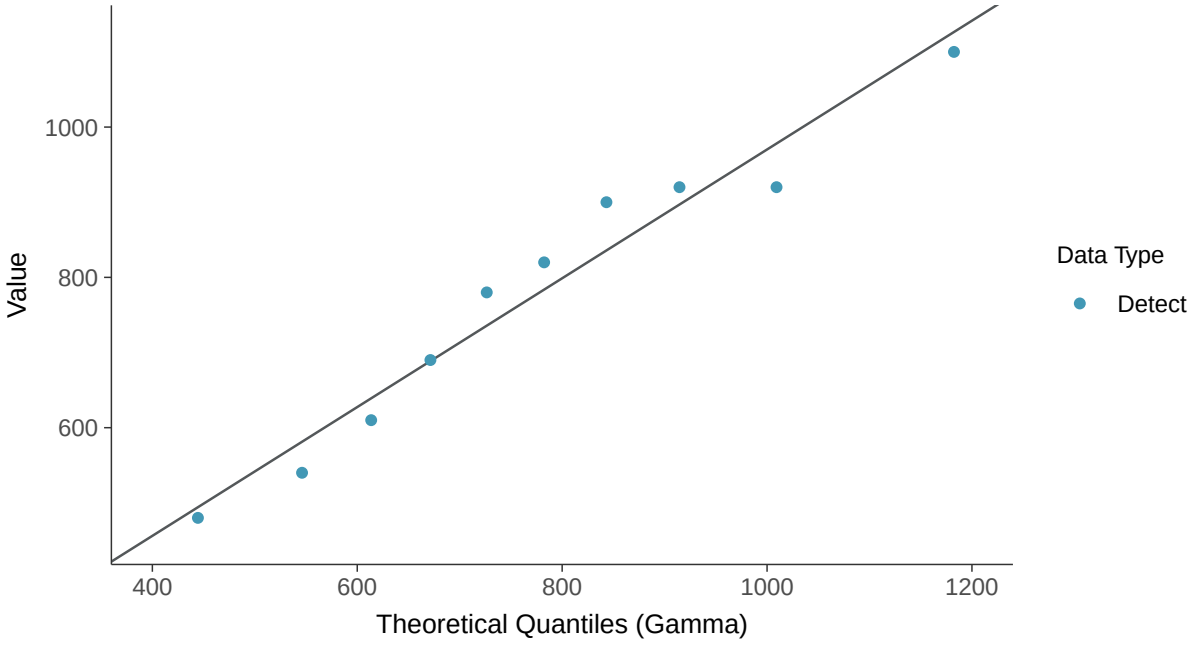
Lognormal Q-Q plot

Total Dissolved Solids, MW-28 (mg/L)



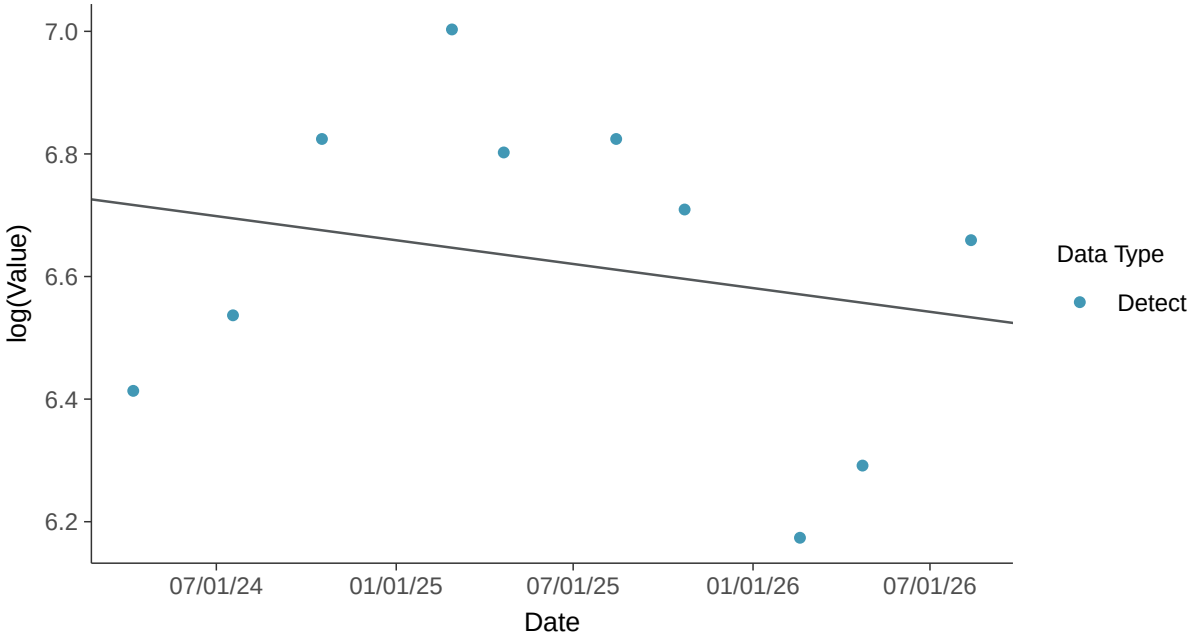
Gamma Q-Q plot

Total Dissolved Solids, MW-28 (mg/L)



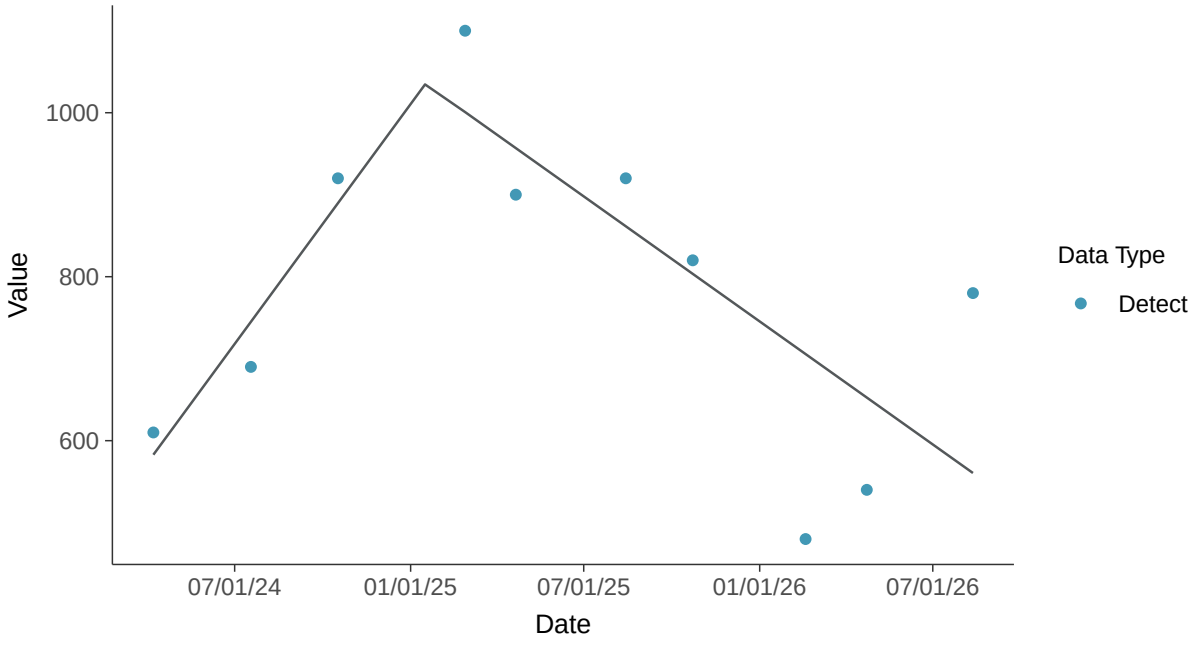
Trend Regression: Lognormal MLE

Total Dissolved Solids, MW-28 (mg/L)



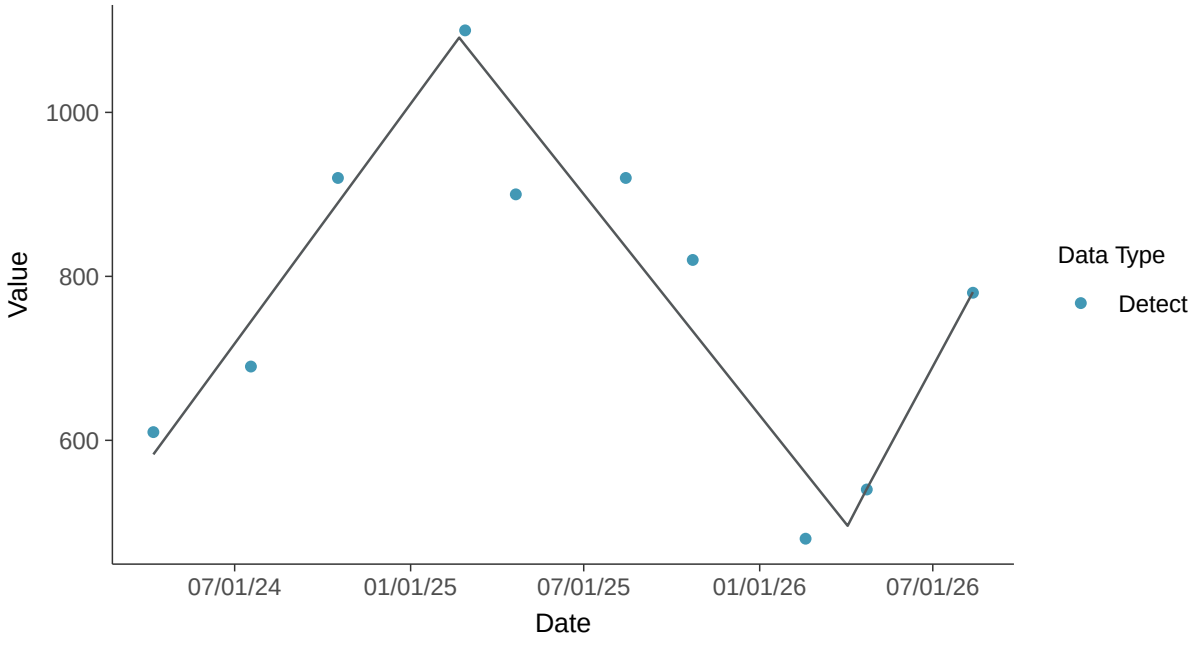
Trend Regression: Piecewise Linear-Linear

Total Dissolved Solids, MW-28 (mg/L)



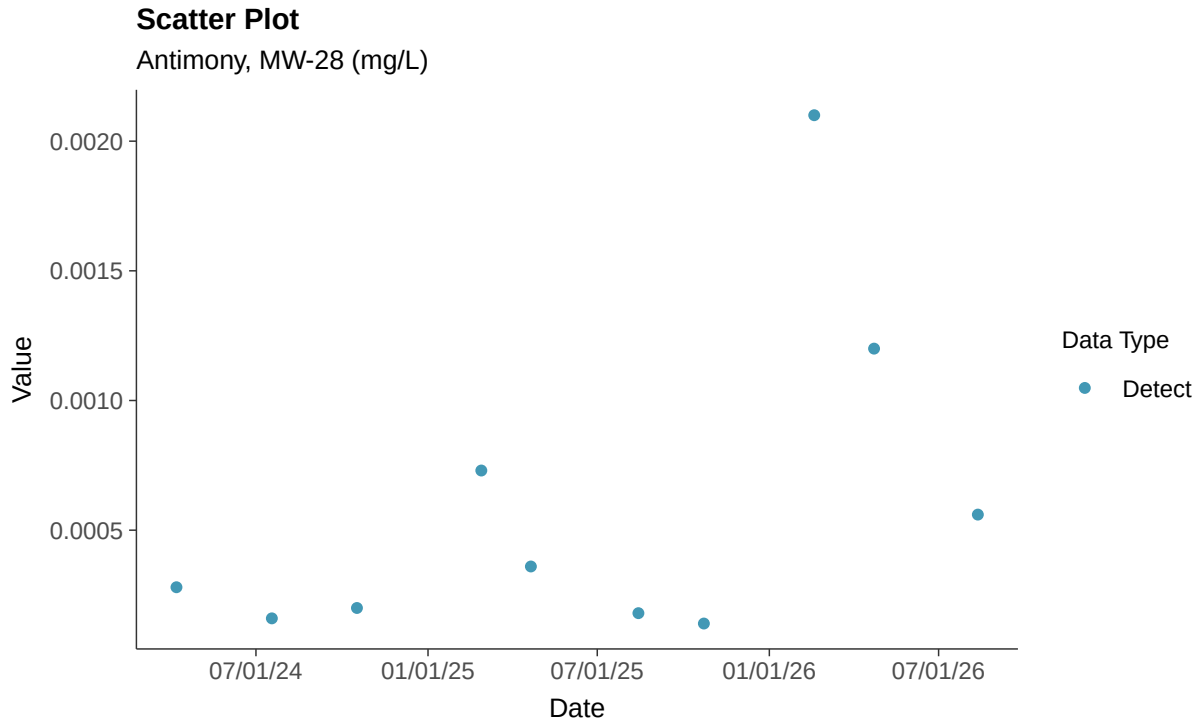
Trend Regression: Piecewise Linear-Linear-Linear

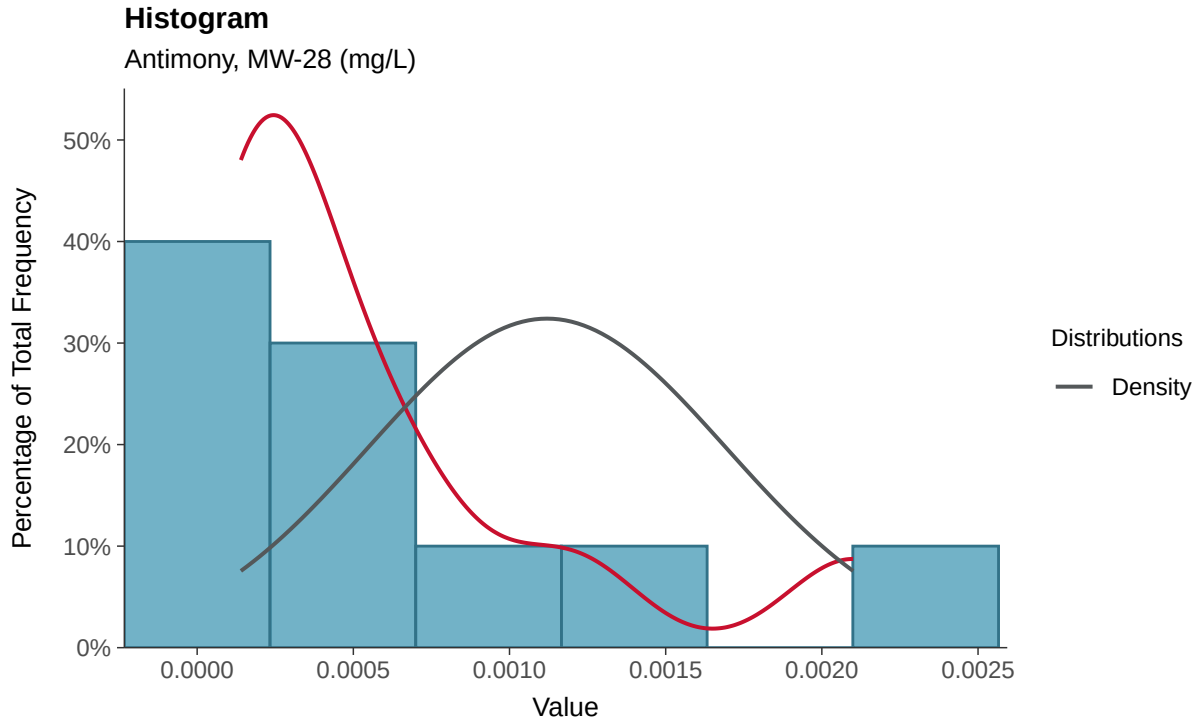
Total Dissolved Solids, MW-28 (mg/L)



Appendix IV: Antimony, MW-28

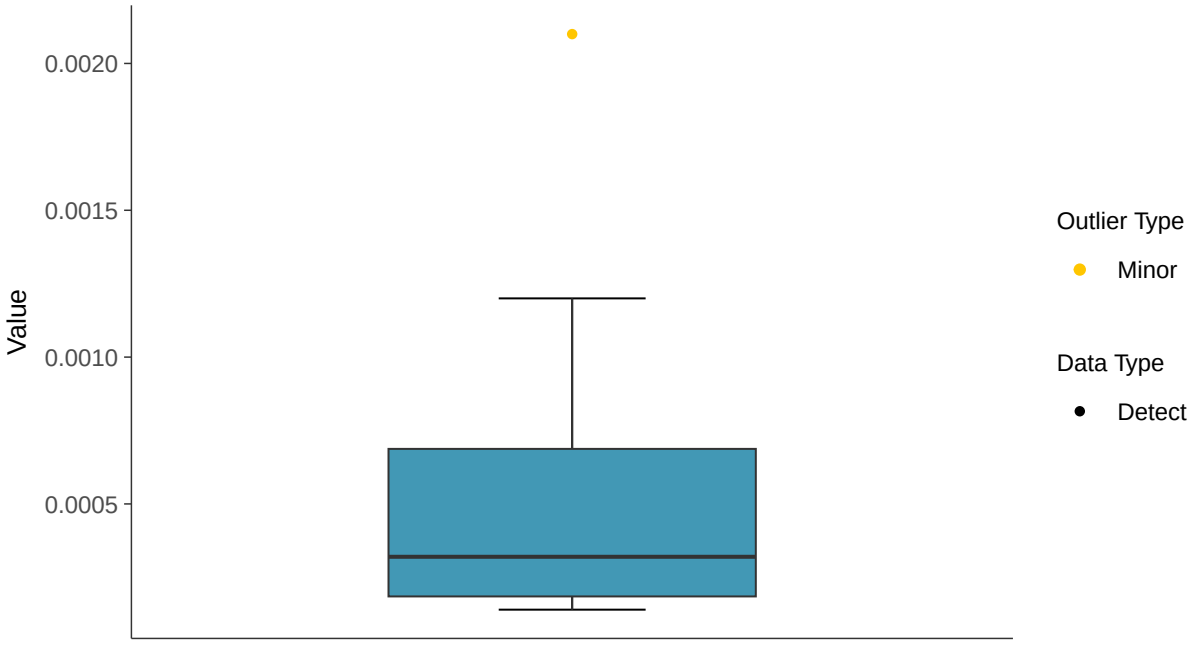
ID: 38_1_4_101





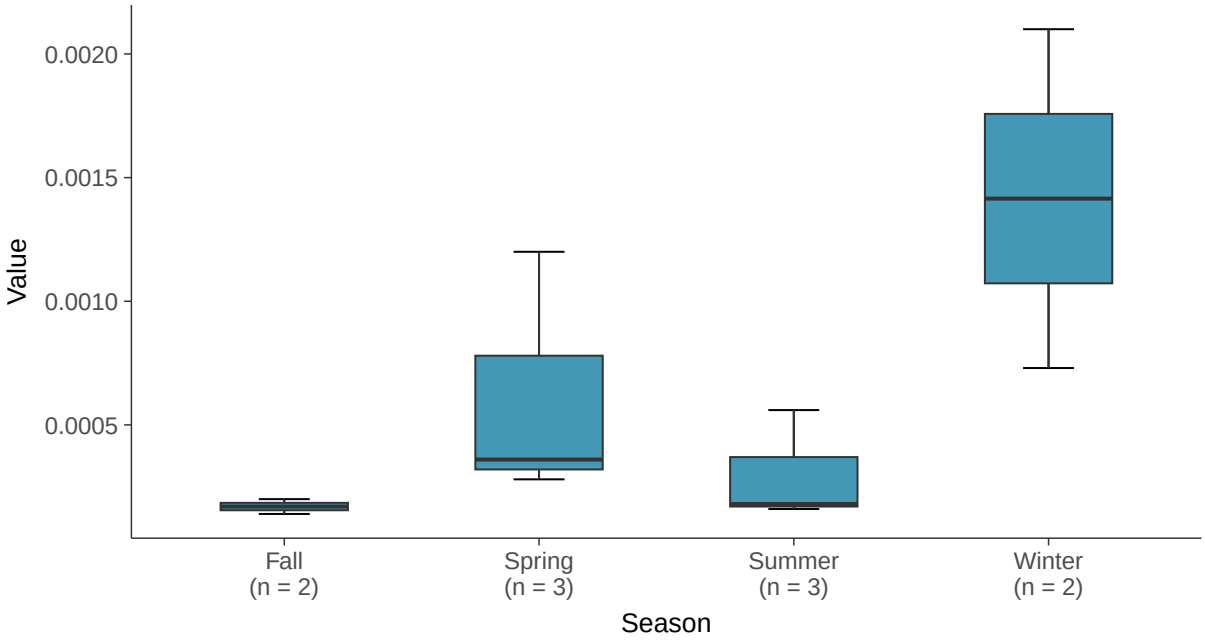
Boxplot

Antimony, MW-28 (mg/L)



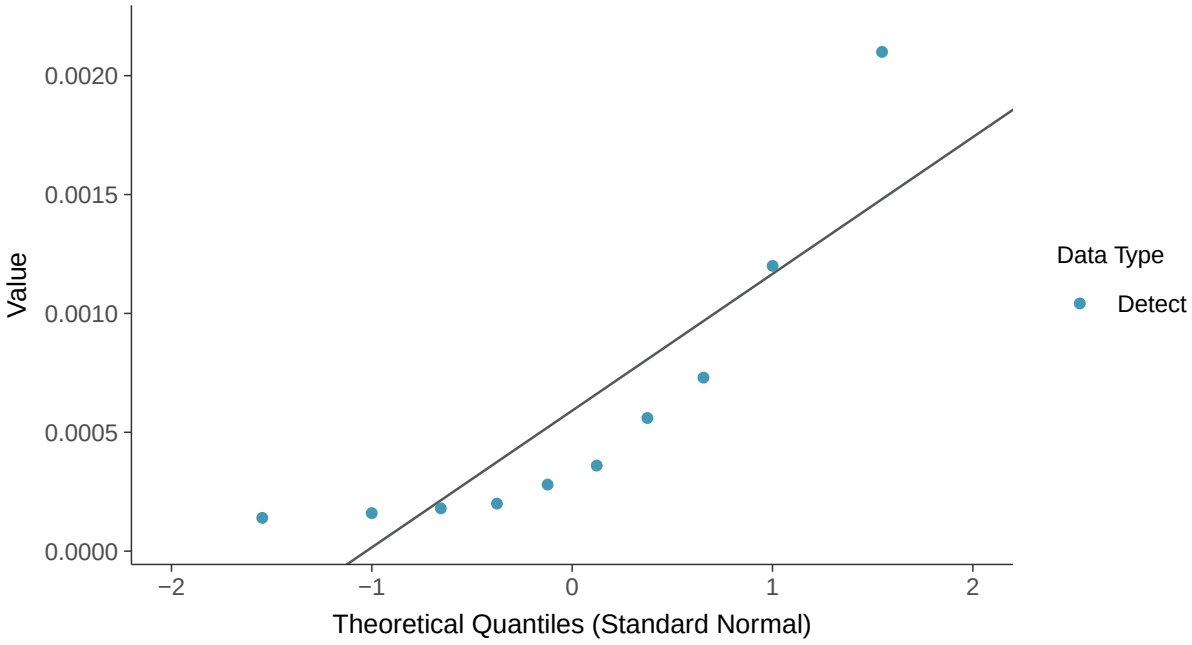
Boxplot by Season

Antimony, MW-28 (mg/L)



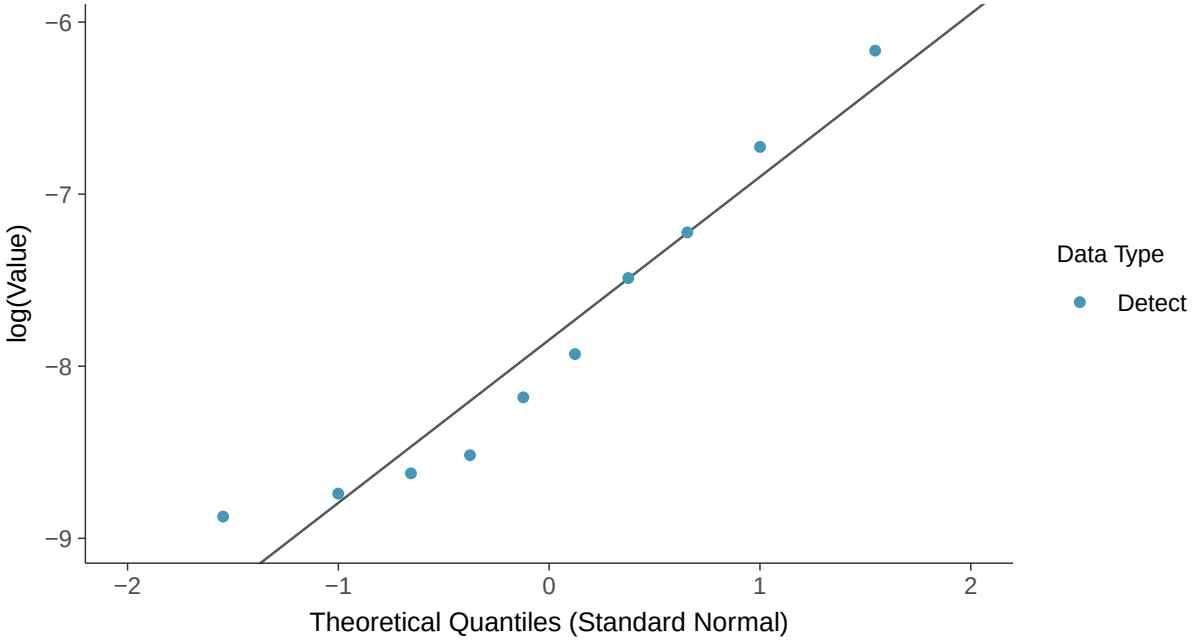
Normal Q-Q plot

Antimony, MW-28 (mg/L)



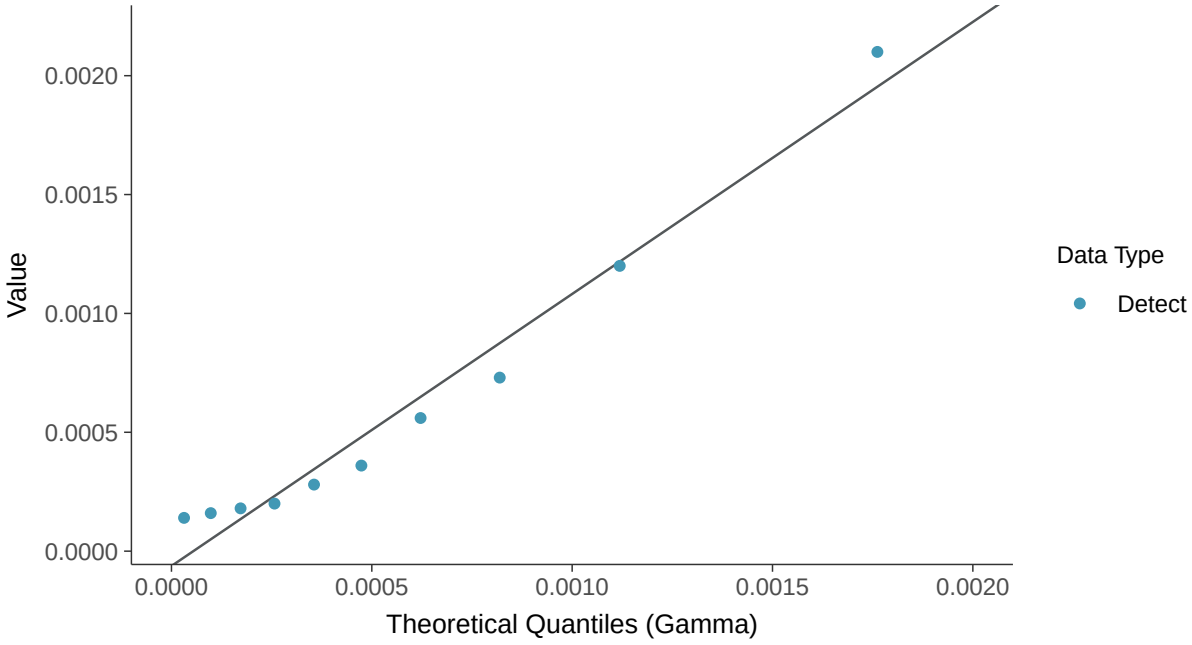
Lognormal Q-Q plot

Antimony, MW-28 (mg/L)



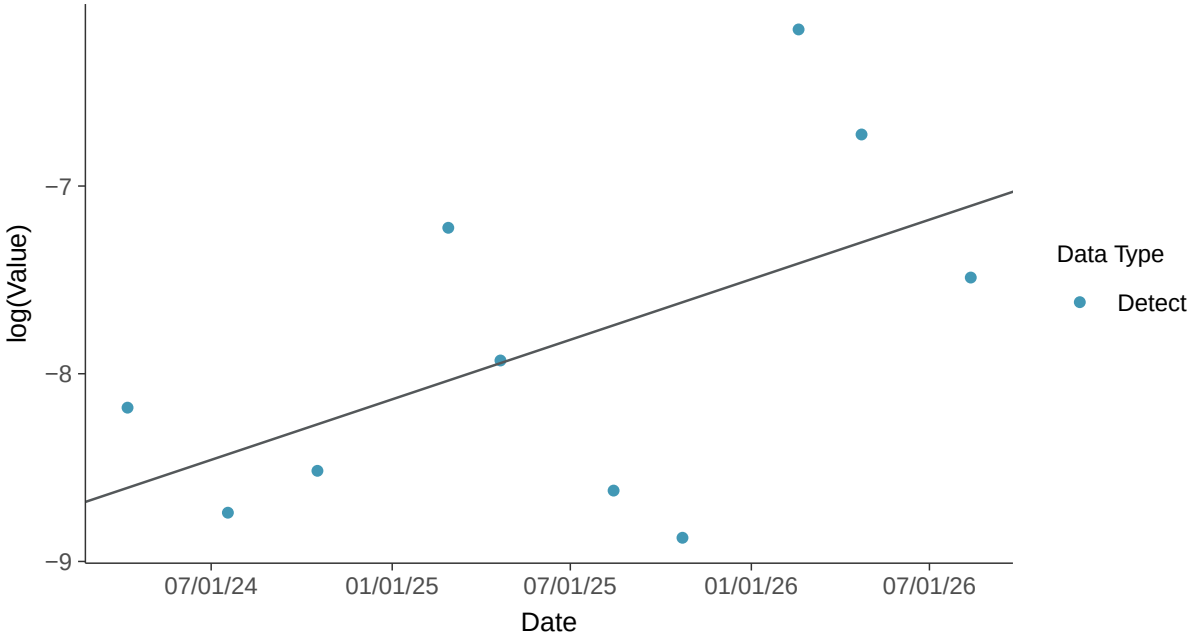
Gamma Q-Q plot

Antimony, MW-28 (mg/L)



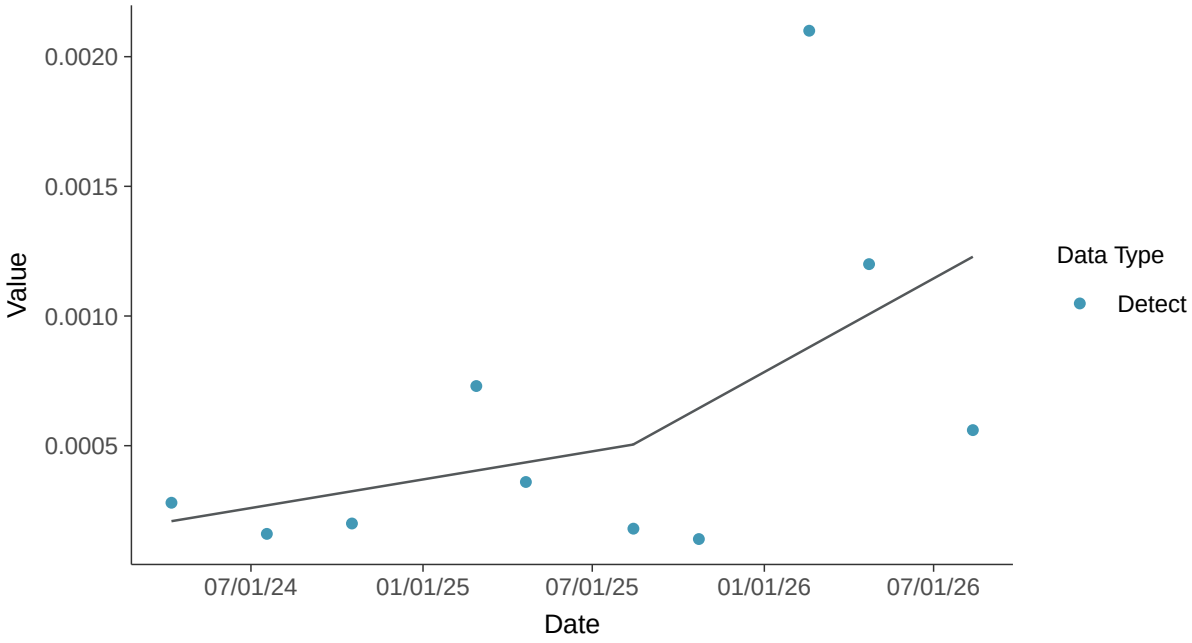
Trend Regression: Lognormal MLE

Antimony, MW-28 (mg/L)



Trend Regression: Piecewise Linear-Linear

Antimony, MW-28 (mg/L)

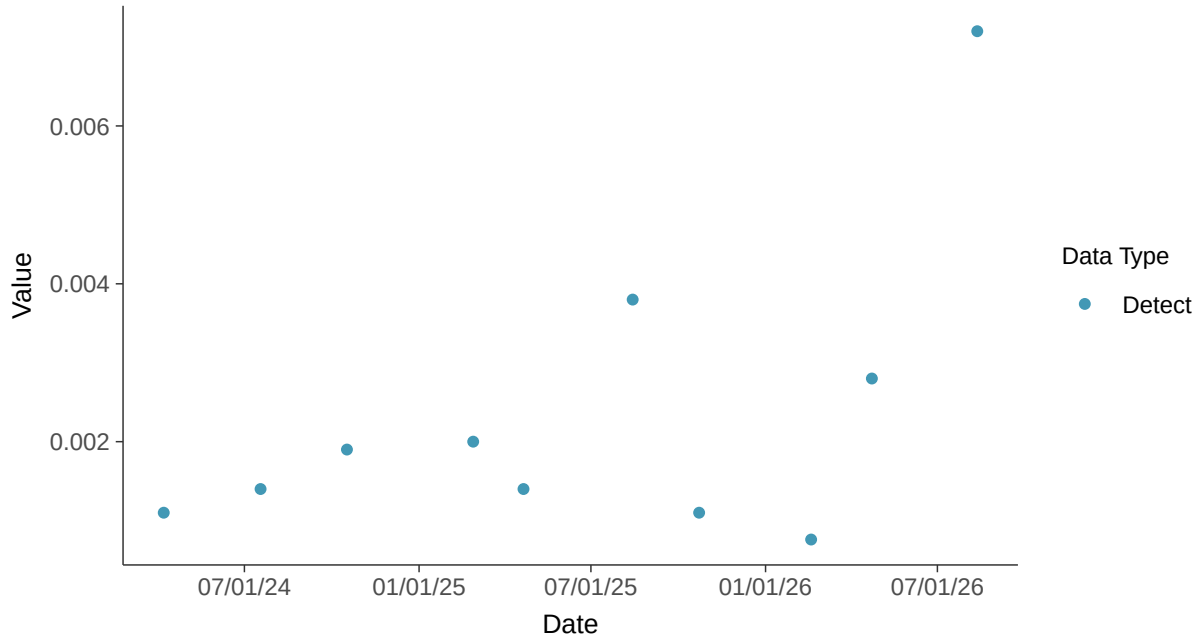


Appendix IV: Arsenic, MW-28

ID: 38_1_4_102

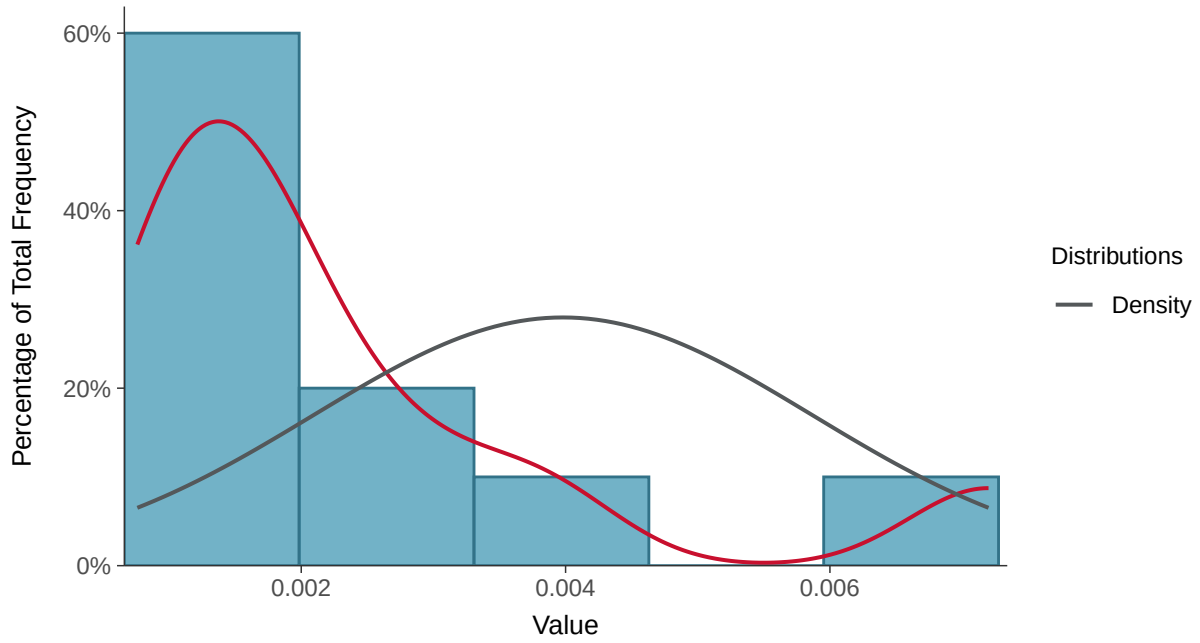
Scatter Plot

Arsenic, MW-28 (mg/L)



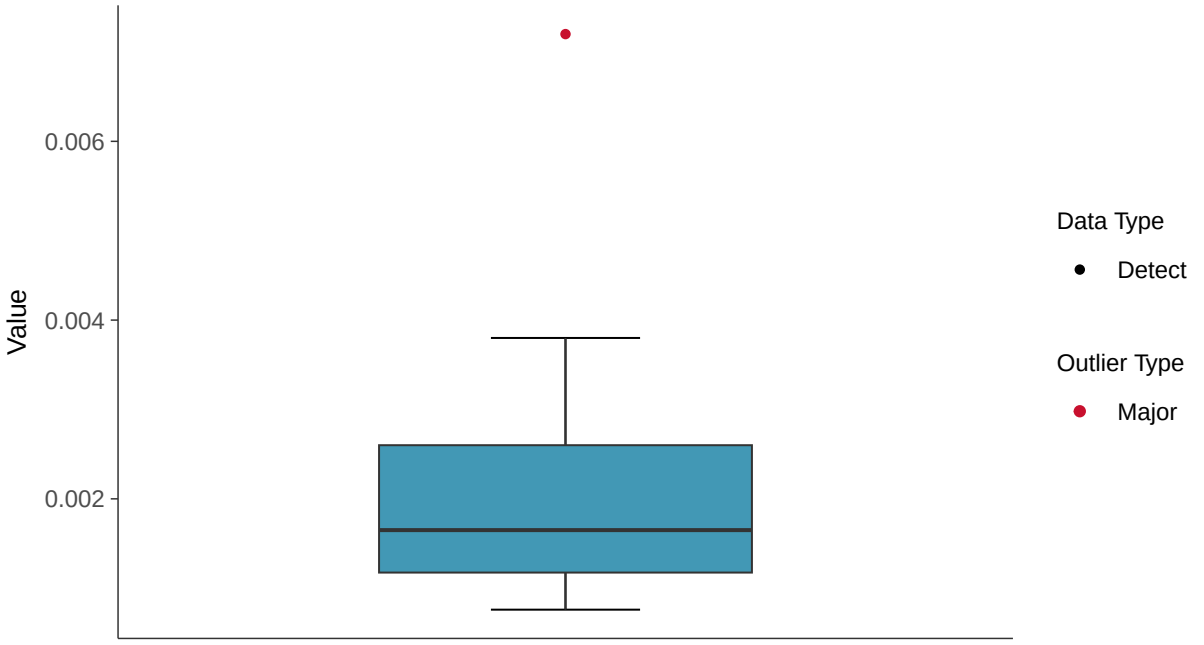
Histogram

Arsenic, MW-28 (mg/L)



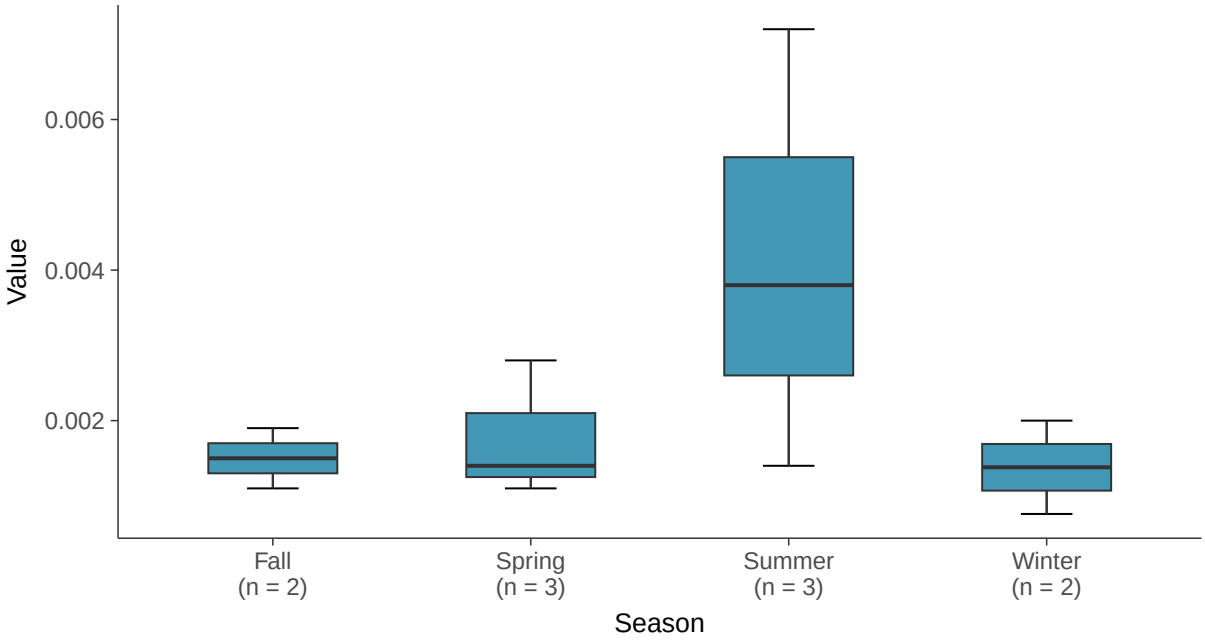
Boxplot

Arsenic, MW-28 (mg/L)



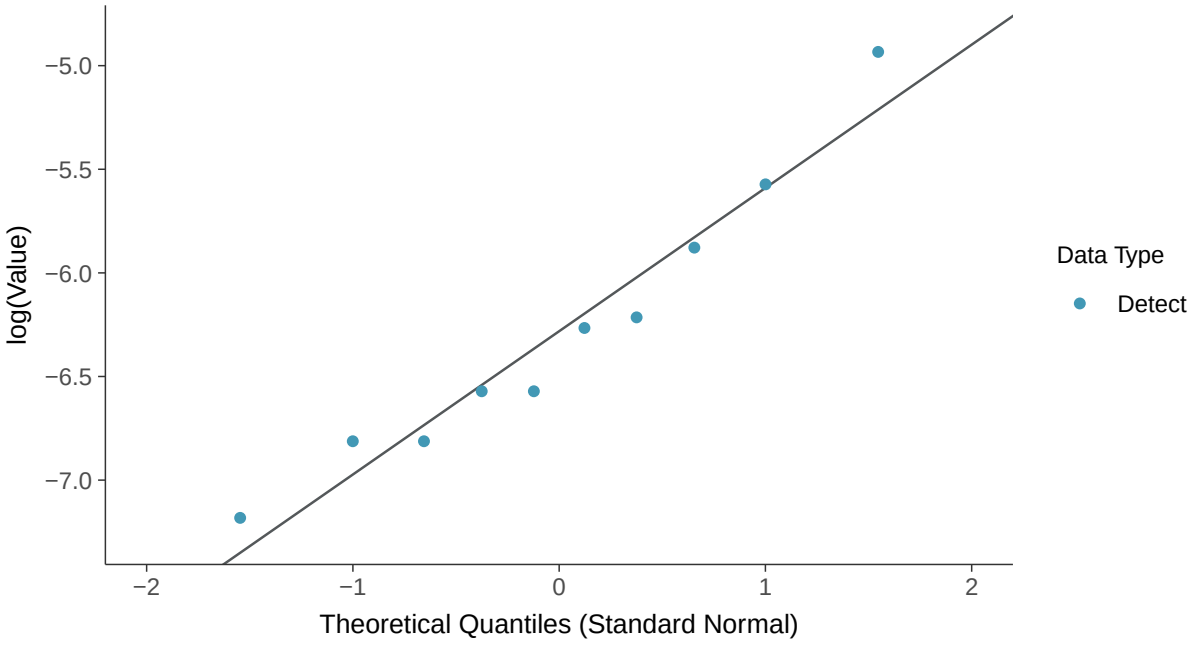
Boxplot by Season

Arsenic, MW-28 (mg/L)



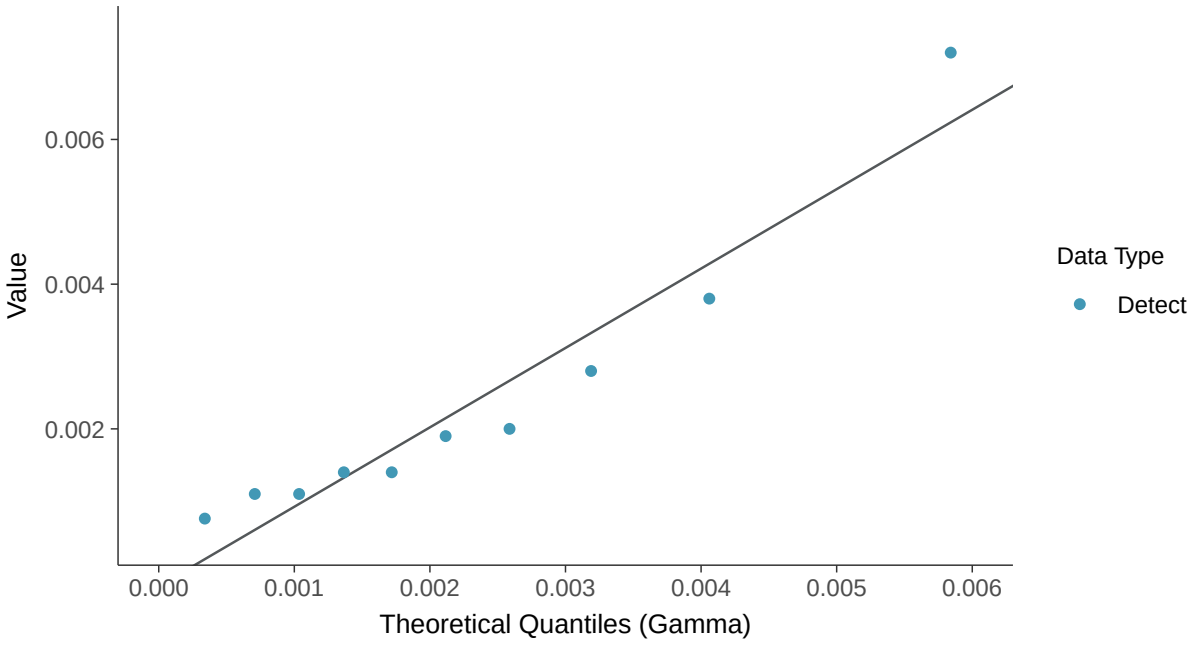
Lognormal Q-Q plot

Arsenic, MW-28 (mg/L)



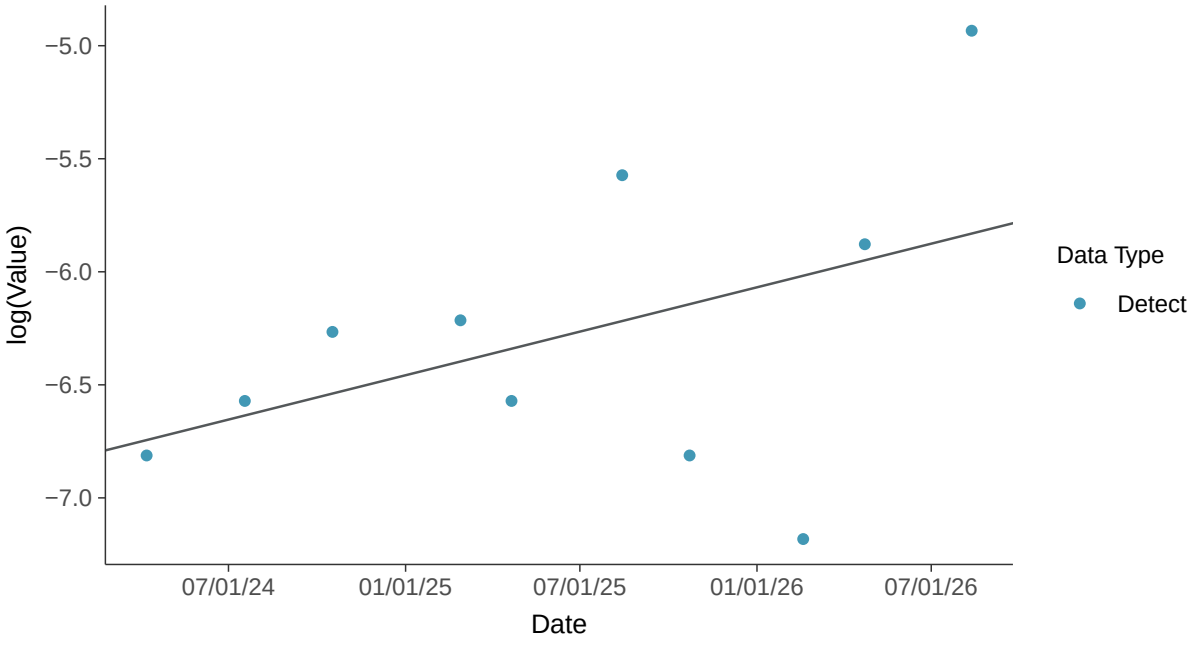
Gamma Q-Q plot

Arsenic, MW-28 (mg/L)



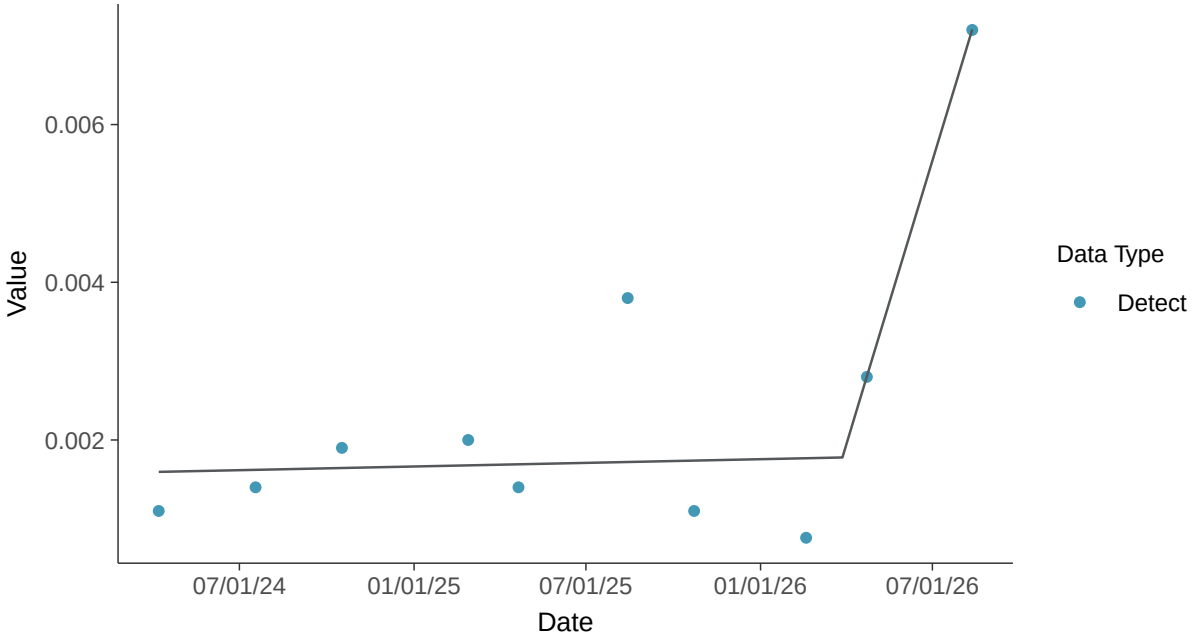
Trend Regression: Lognormal MLE

Arsenic, MW-28 (mg/L)



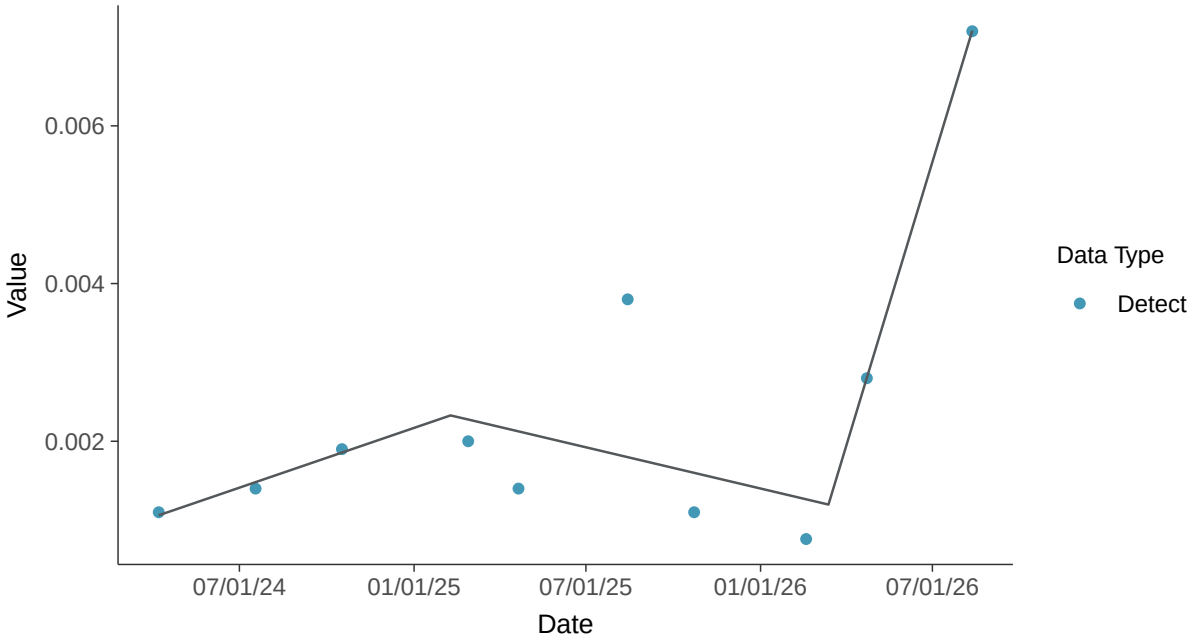
Trend Regression: Piecewise Linear-Linear

Arsenic, MW-28 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Arsenic, MW-28 (mg/L)

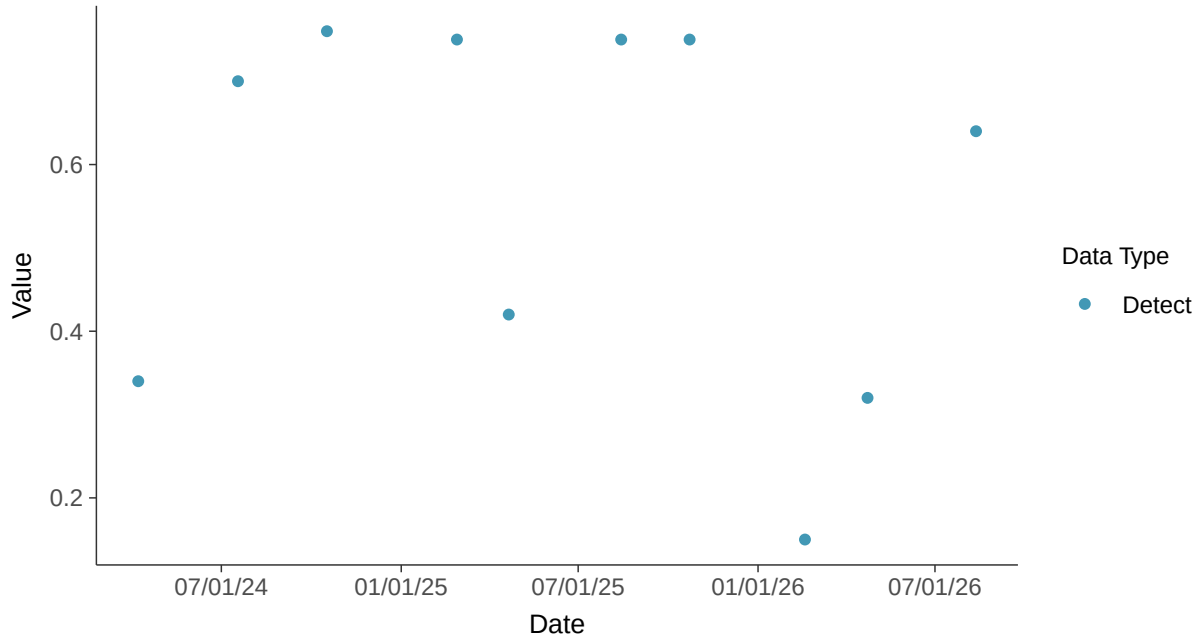


Appendix IV: Barium, MW-28

ID: 38_1_4_103

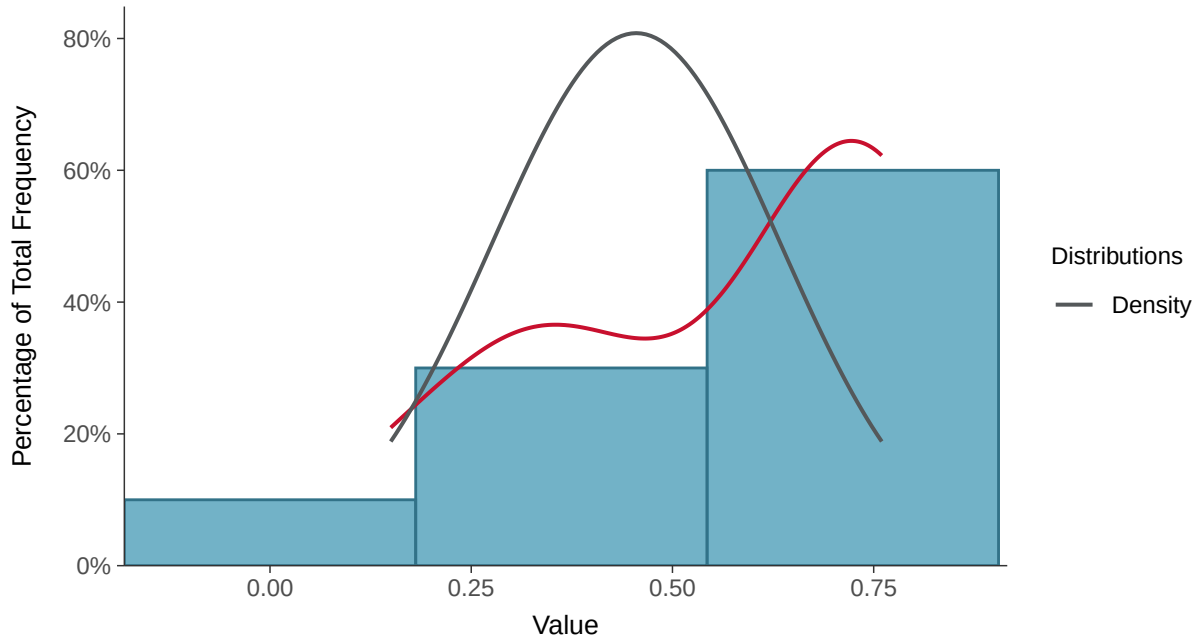
Scatter Plot

Barium, MW-28 (mg/L)



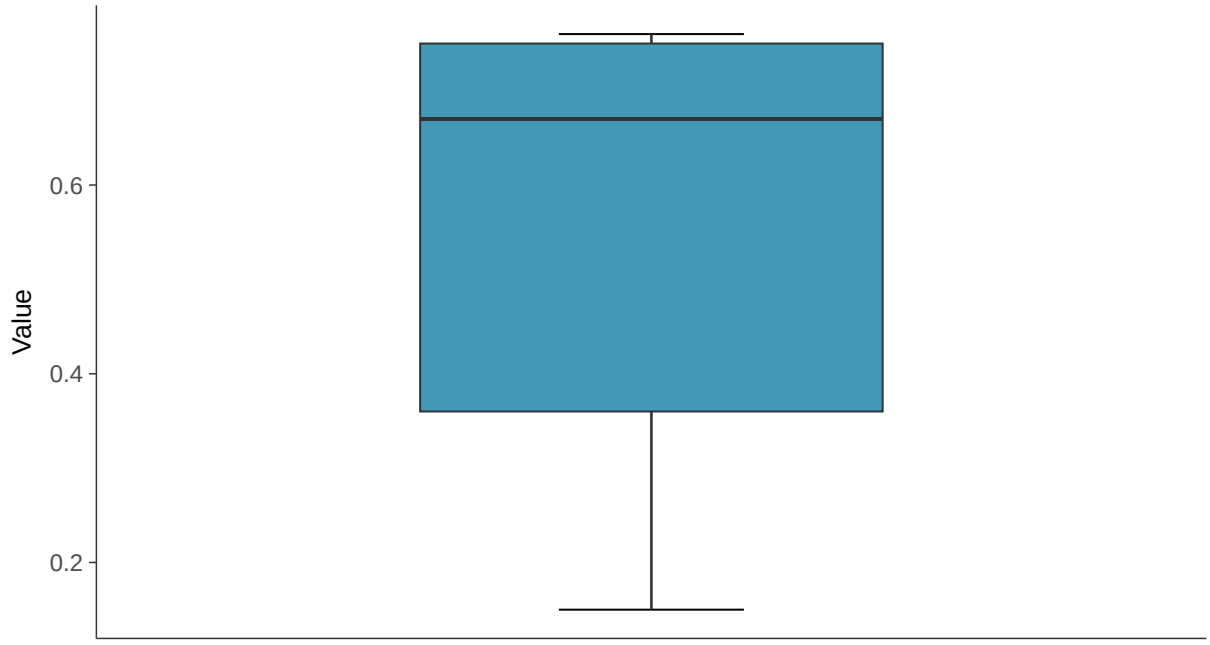
Histogram

Barium, MW-28 (mg/L)



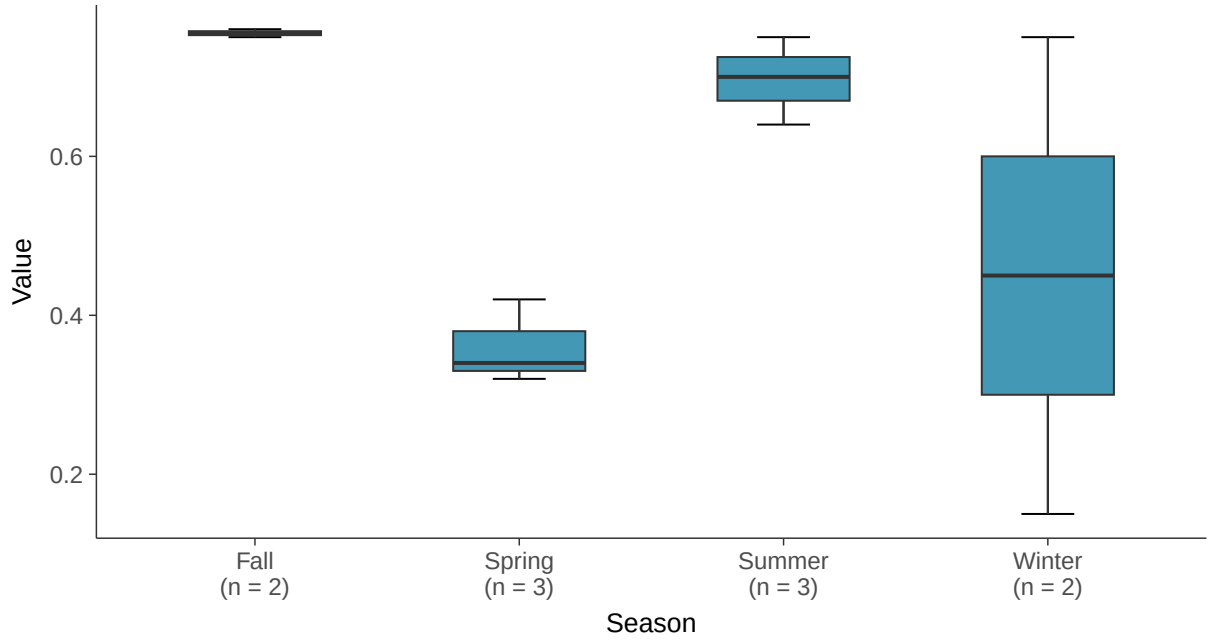
Boxplot

Barium, MW-28 (mg/L)



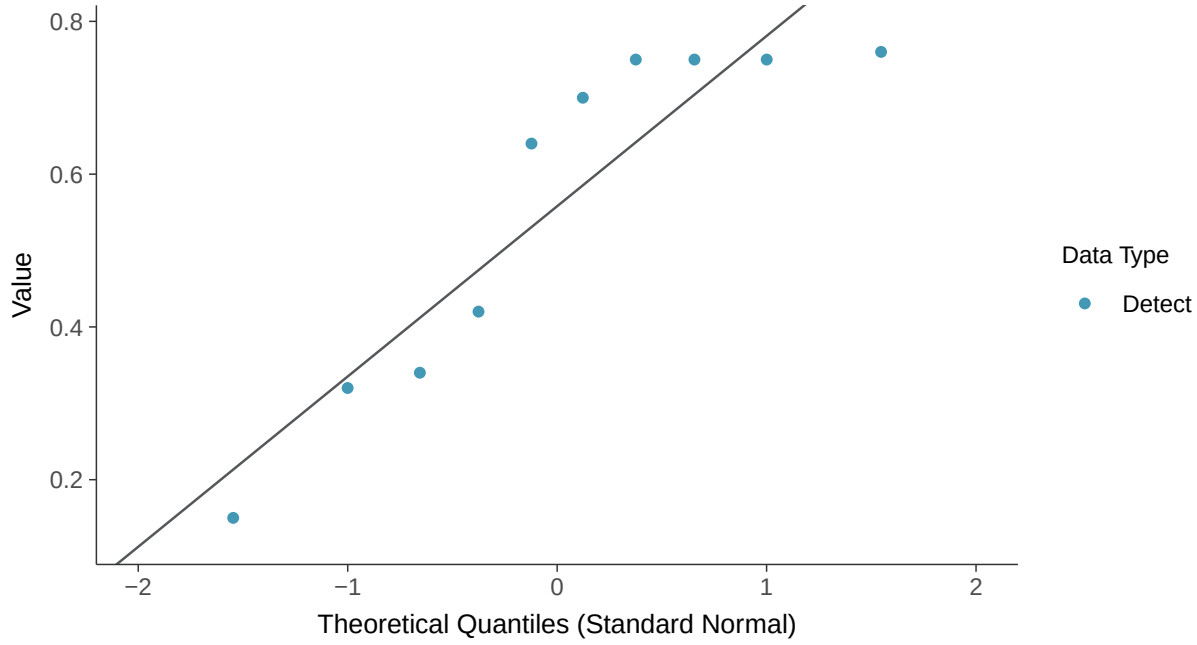
Boxplot by Season

Barium, MW-28 (mg/L)



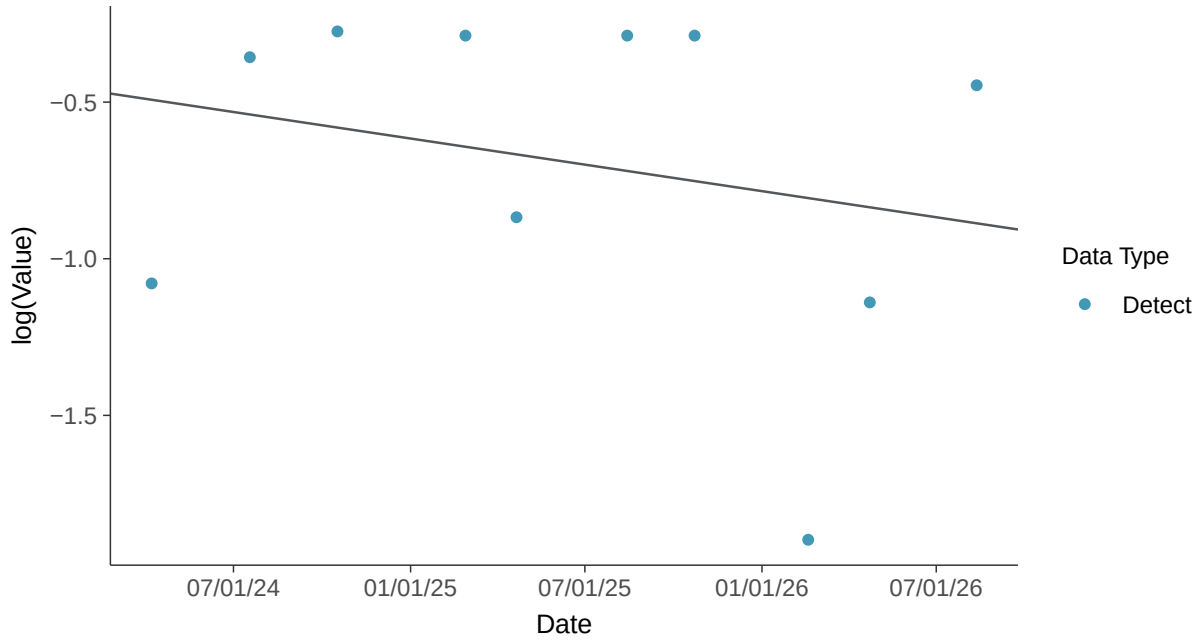
Normal Q-Q plot

Barium, MW-28 (mg/L)



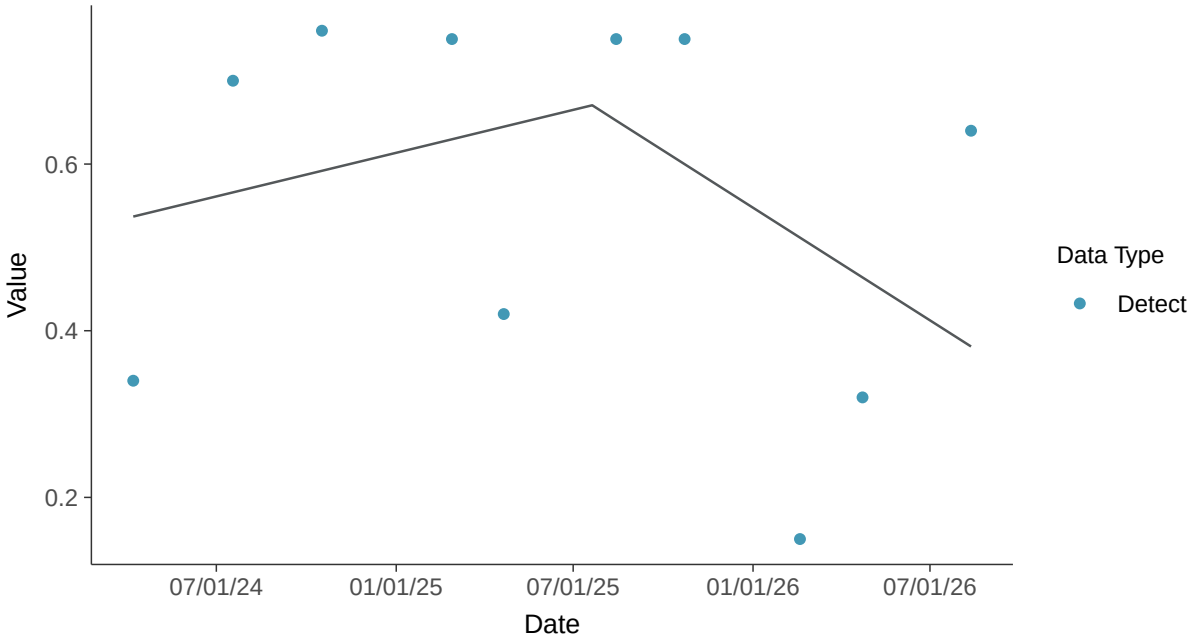
Trend Regression: Lognormal MLE

Barium, MW-28 (mg/L)



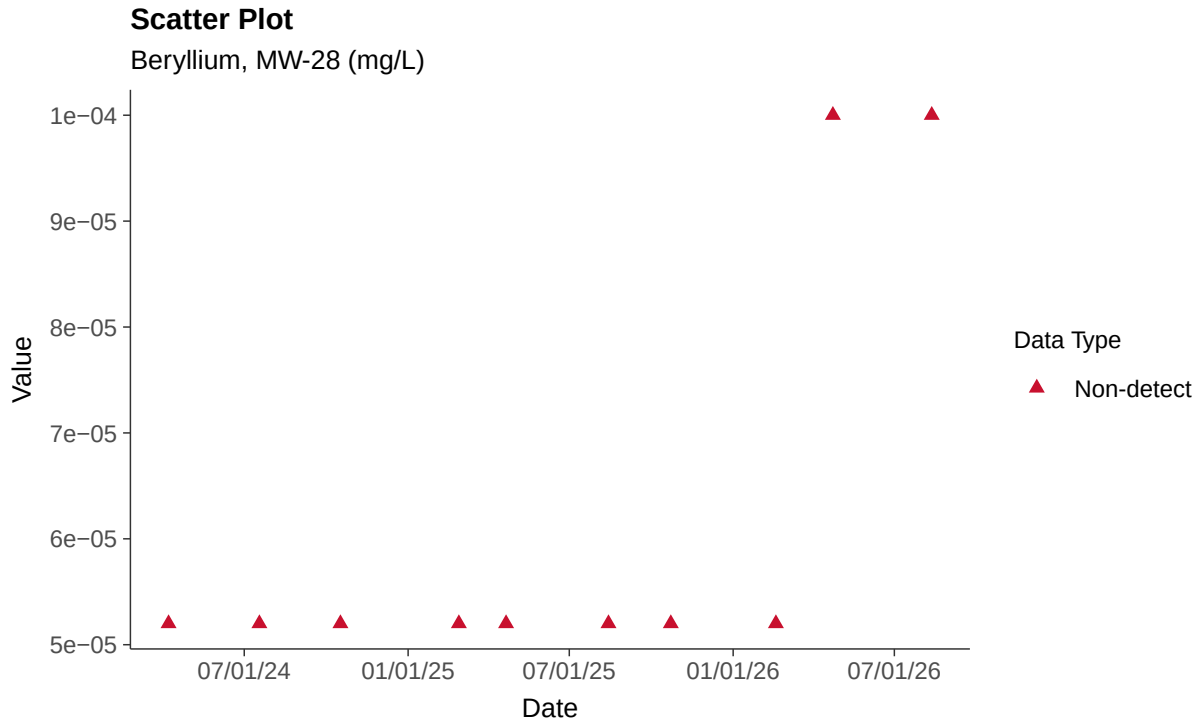
Trend Regression: Piecewise Linear-Linear

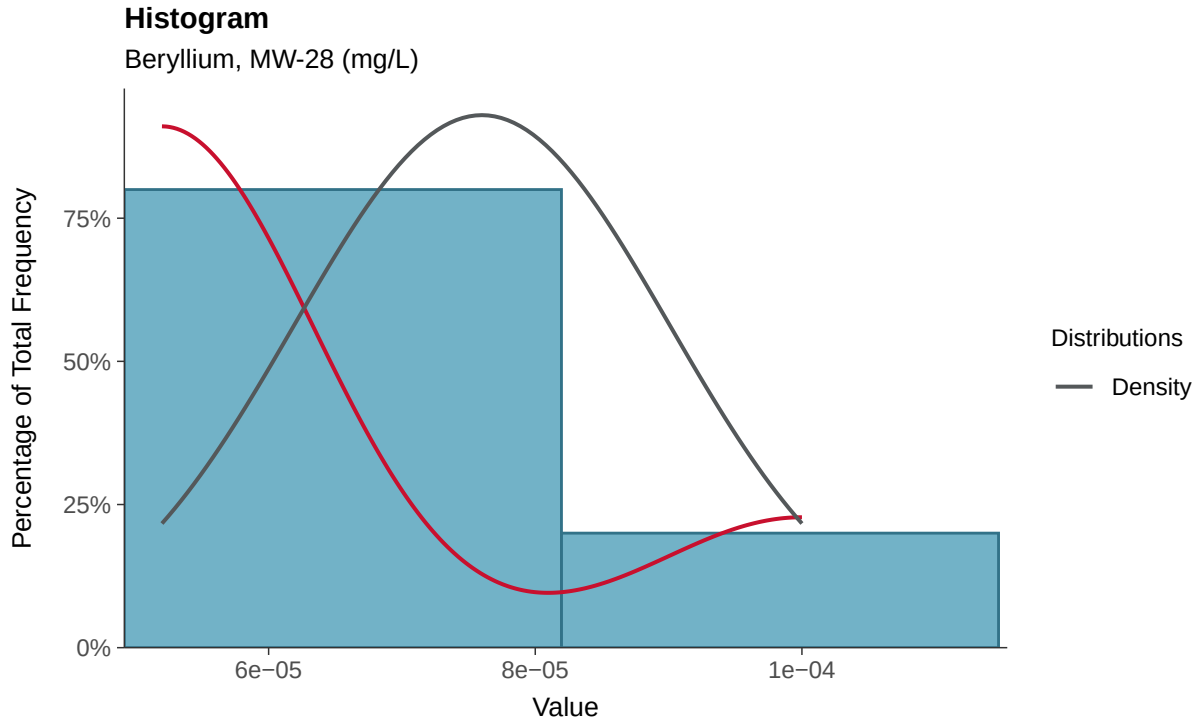
Barium, MW-28 (mg/L)



Appendix IV: Beryllium, MW-28

ID: 38_1_4_104





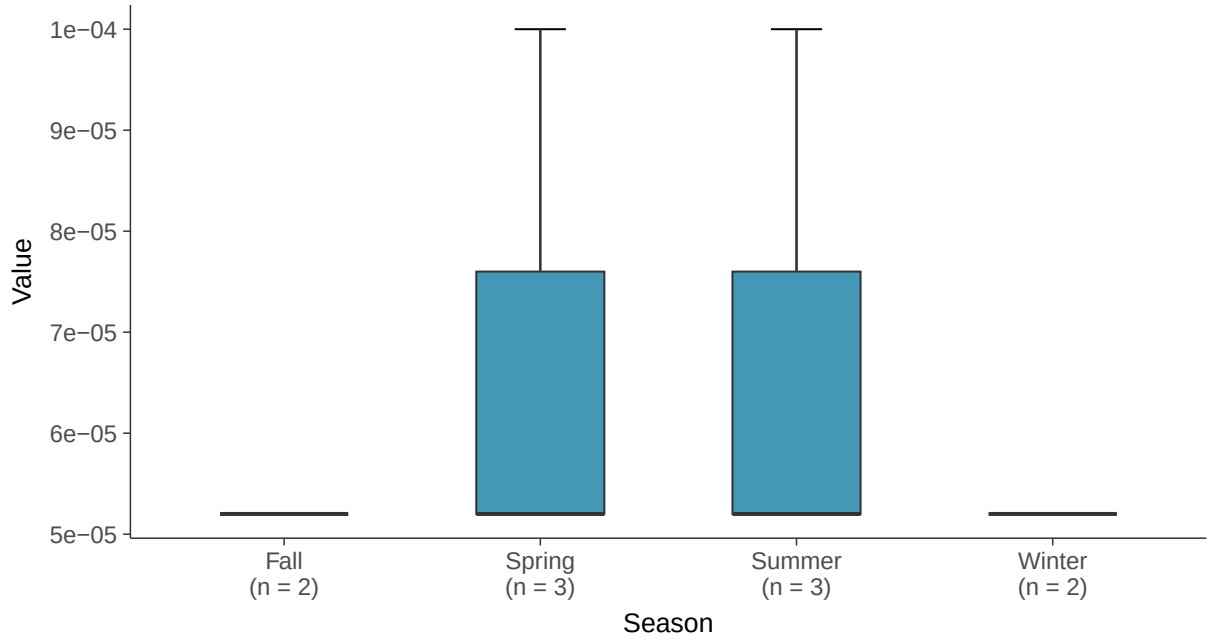
Boxplot

Beryllium, MW-28 (mg/L)



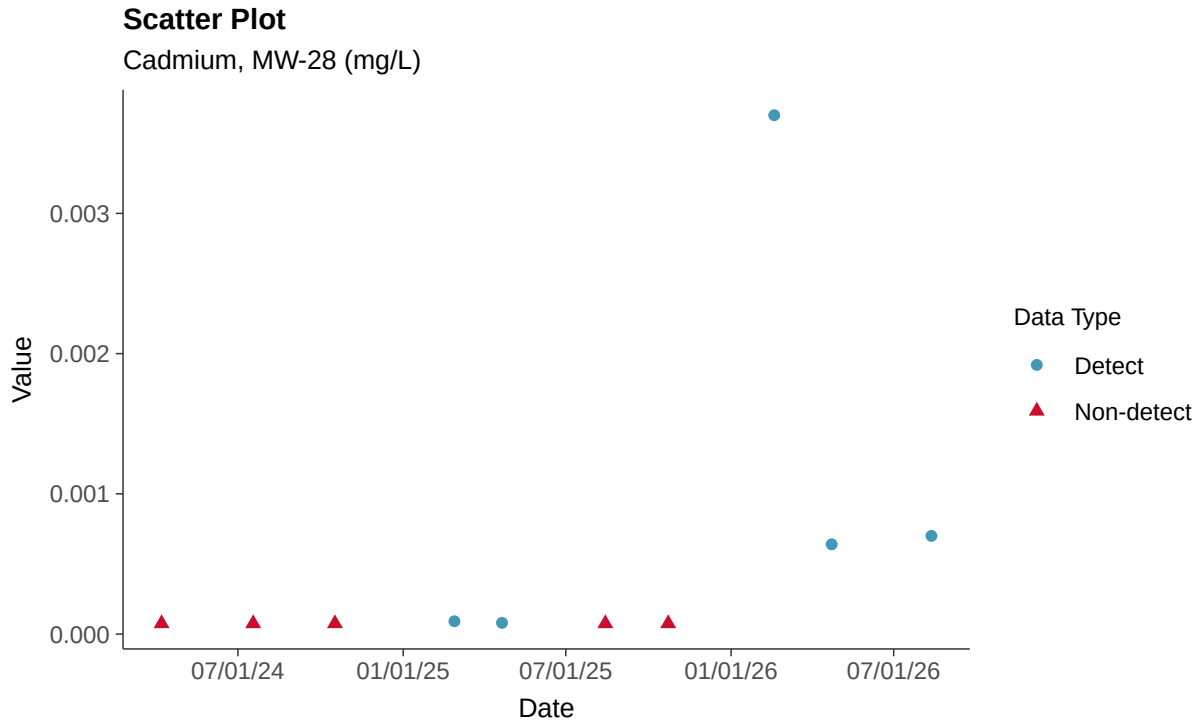
Boxplot by Season

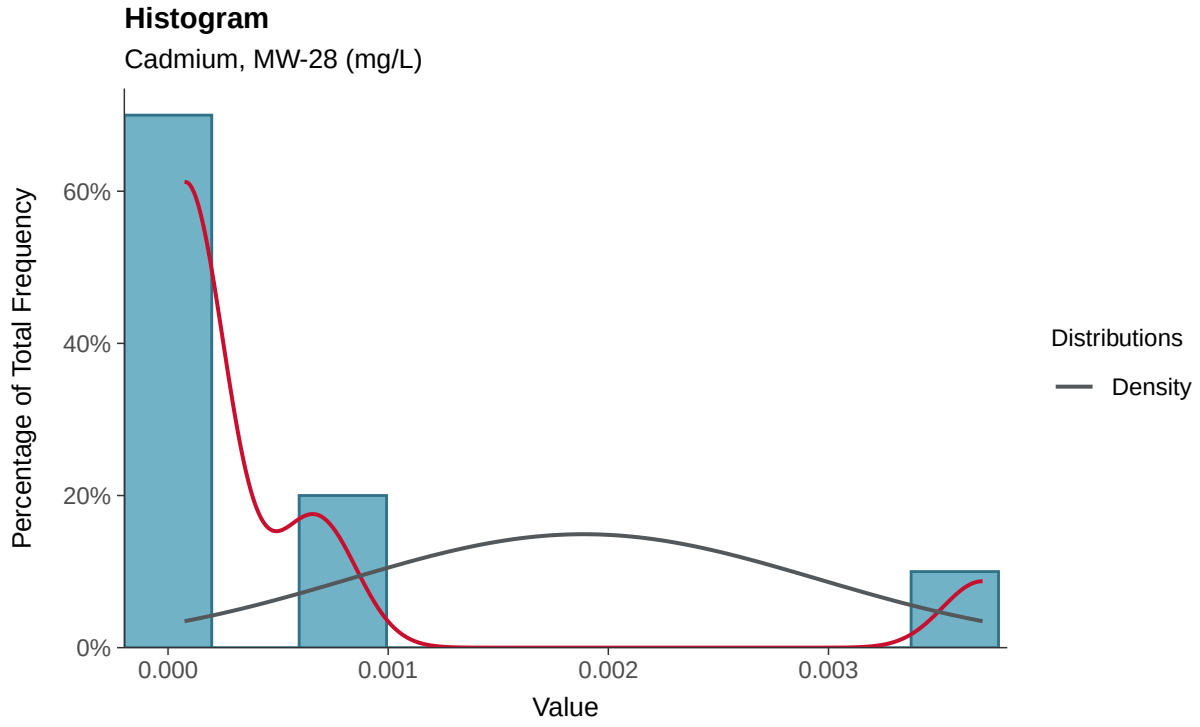
Beryllium, MW-28 (mg/L)



Appendix IV: Cadmium, MW-28

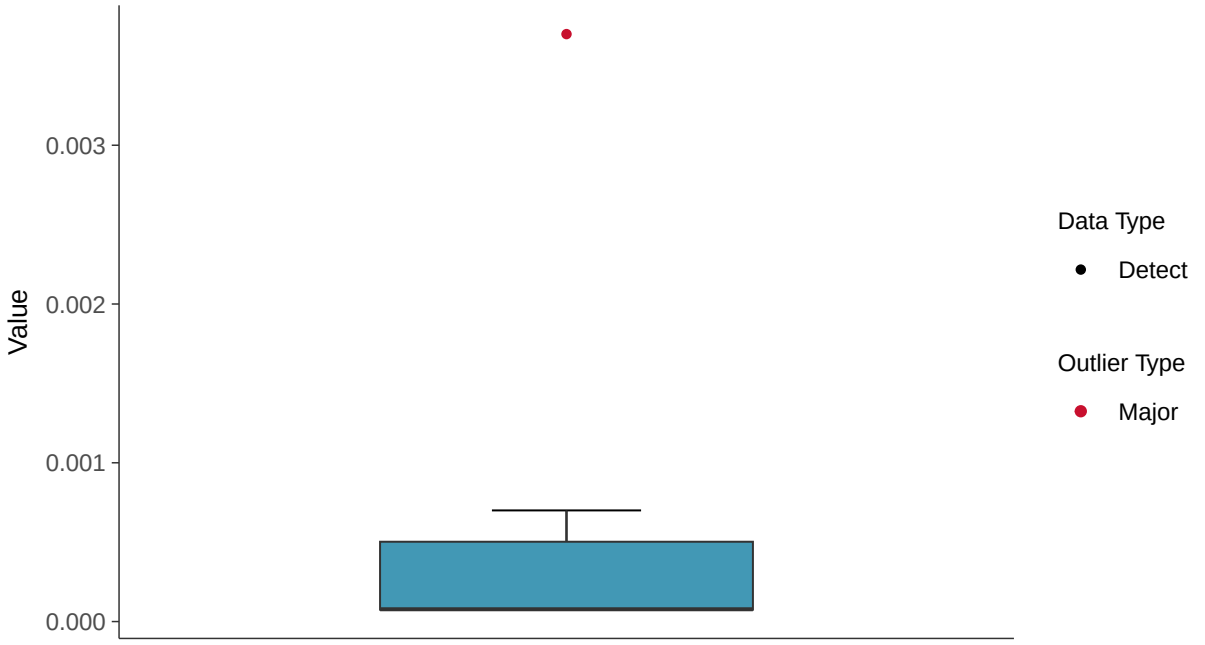
ID: 38_1_4_106





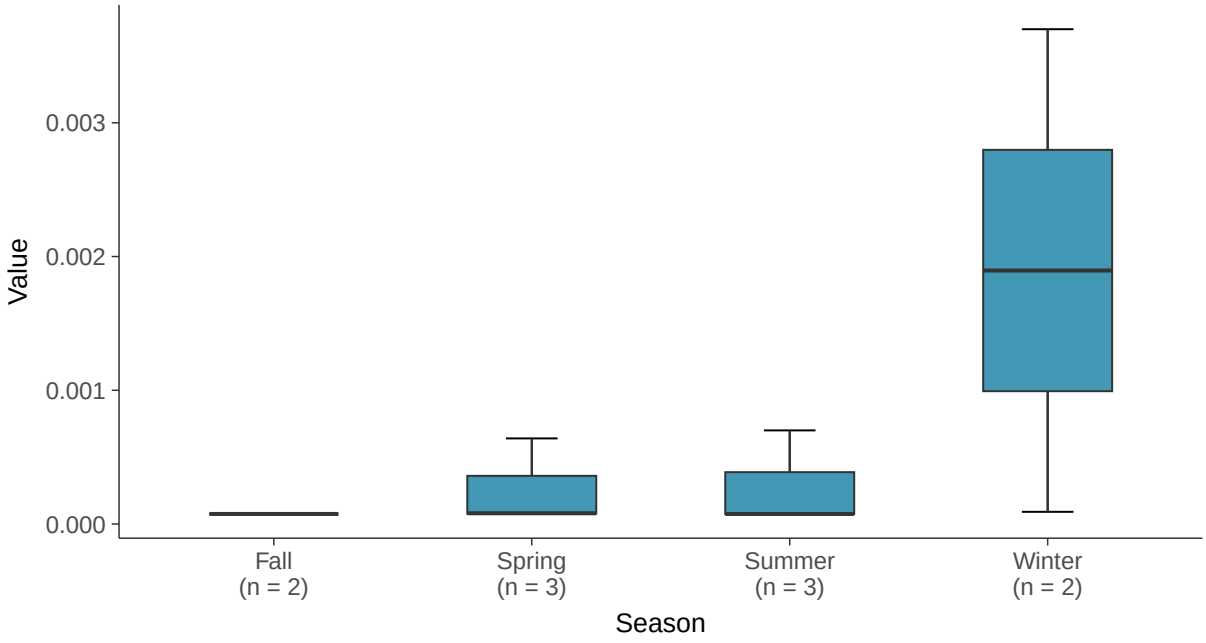
Boxplot

Cadmium, MW-28 (mg/L)



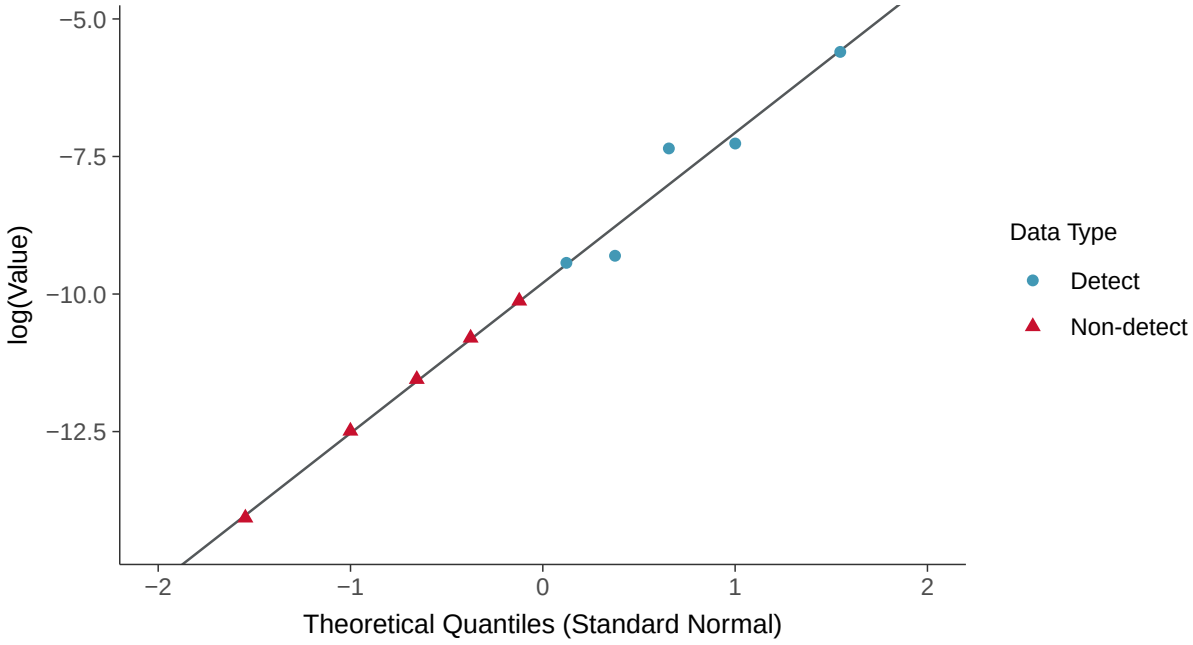
Boxplot by Season

Cadmium, MW-28 (mg/L)



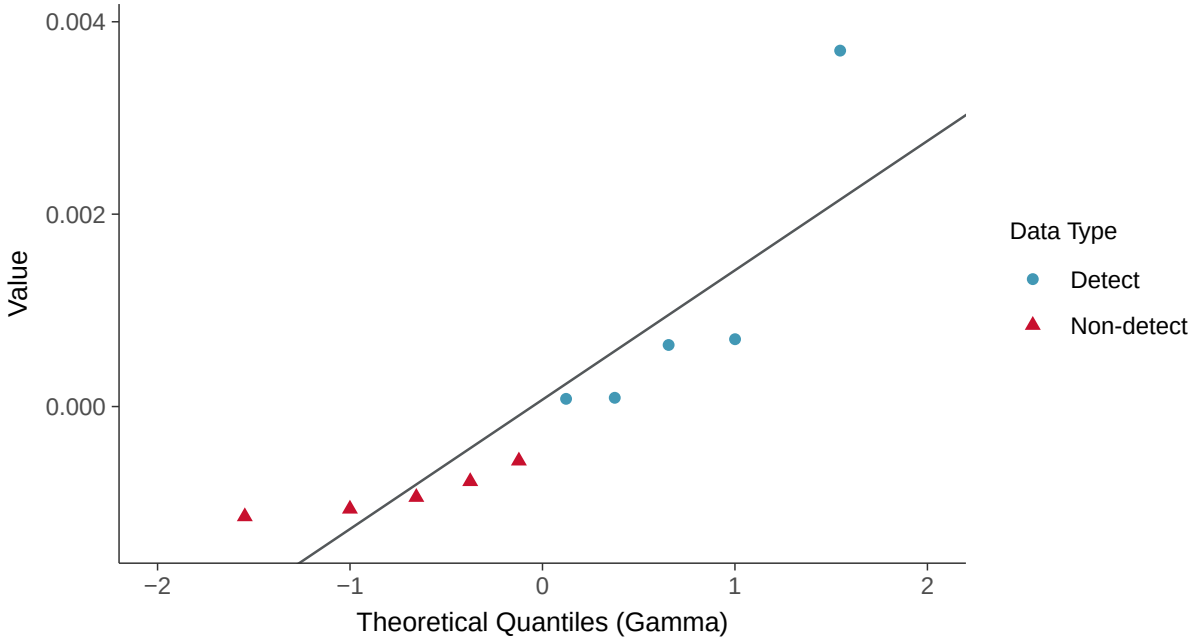
Lognormal Q-Q plot using ROS Imputed Estimates

Cadmium, MW-28 (mg/L)



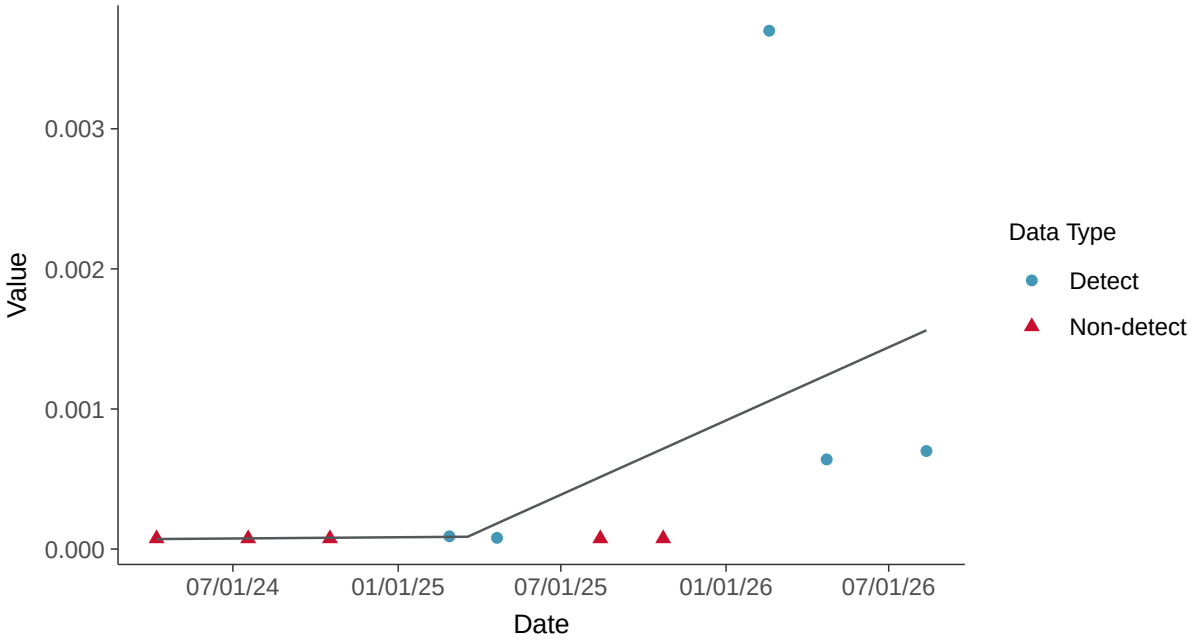
Gamma Q-Q plot using ROS Imputed Estimates

Cadmium, MW-28 (mg/L)



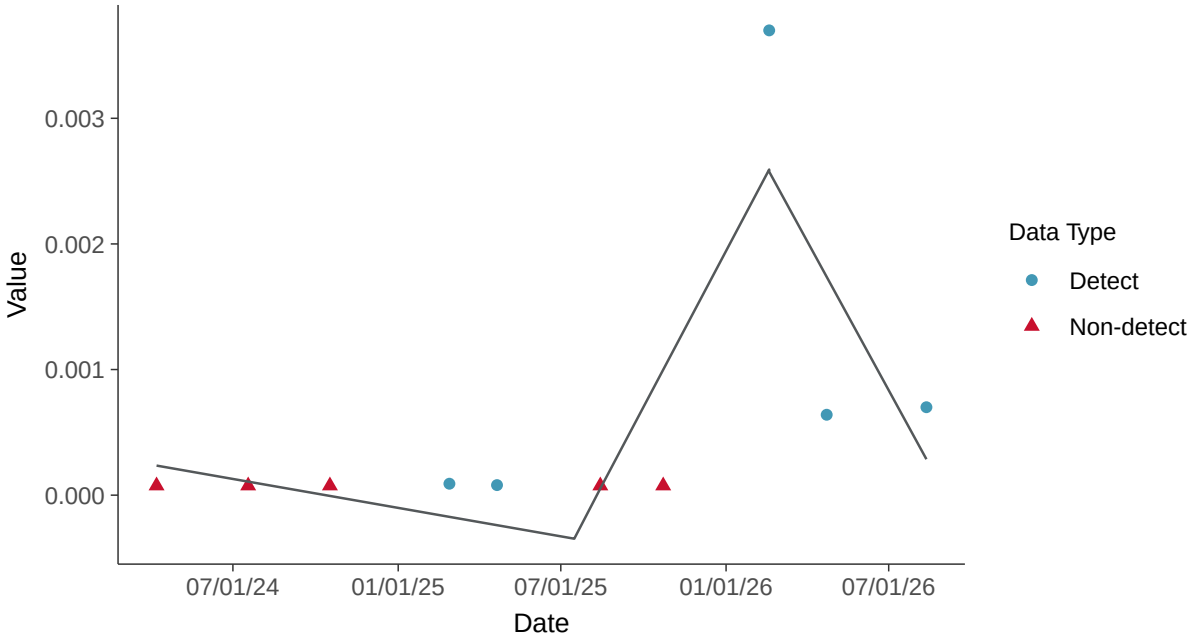
Trend Regression: Piecewise Linear-Linear

Cadmium, MW-28 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Cadmium, MW-28 (mg/L)

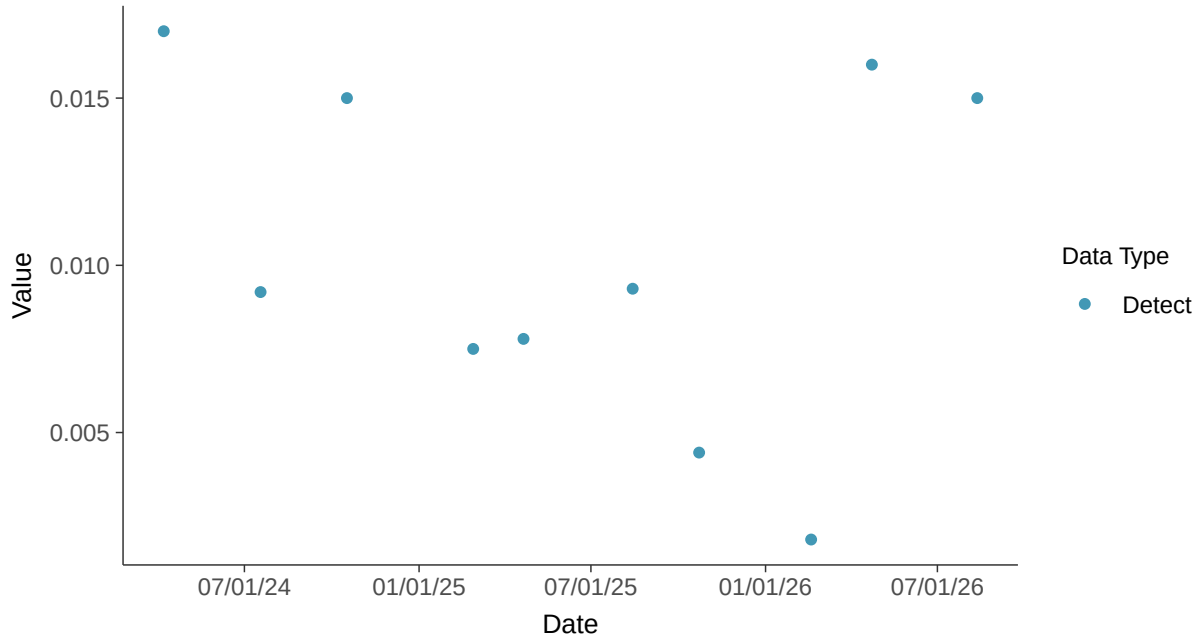


Appendix IV: Chromium, Total, MW-28

ID: 38_1_4_109

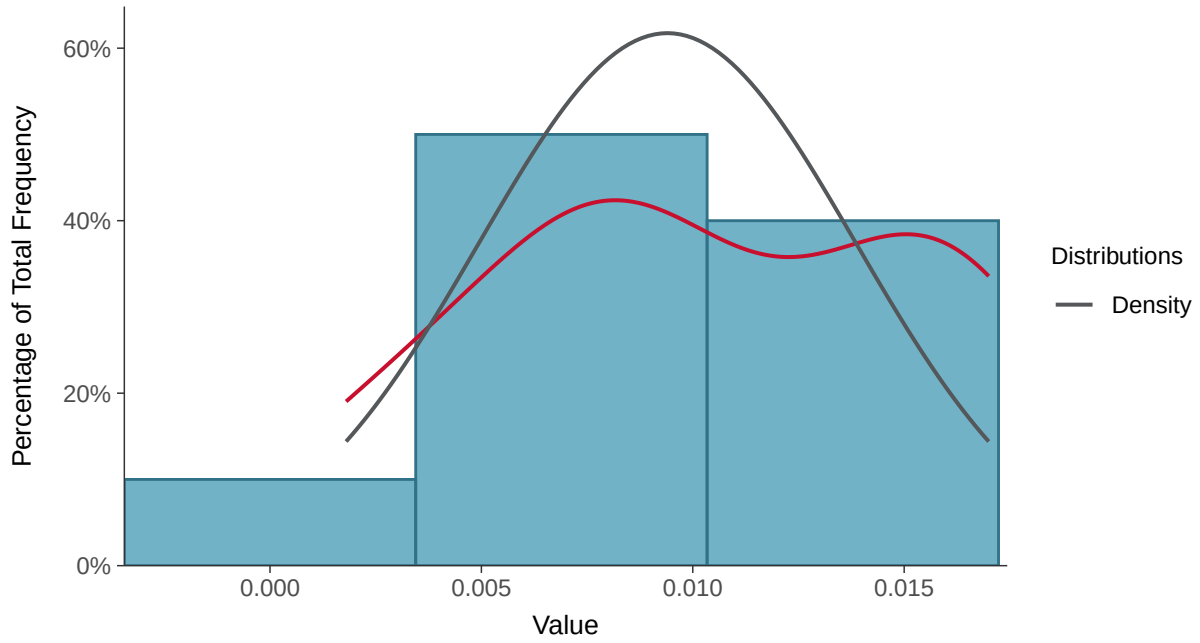
Scatter Plot

Chromium, Total, MW-28 (mg/L)



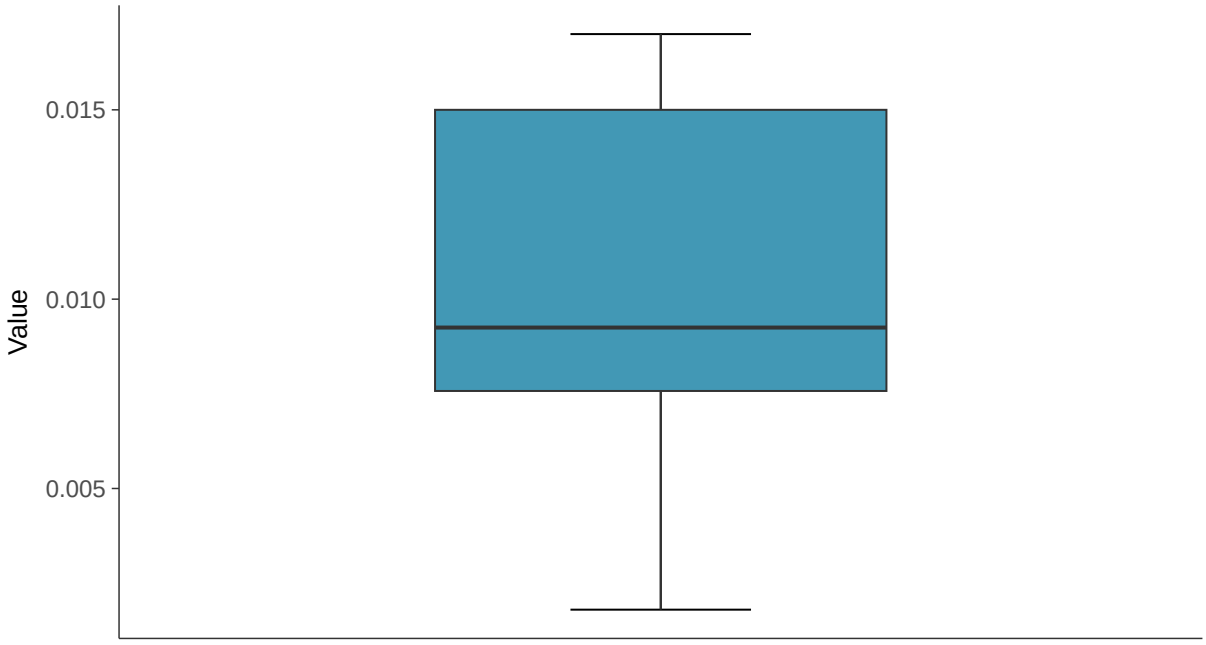
Histogram

Chromium, Total, MW-28 (mg/L)



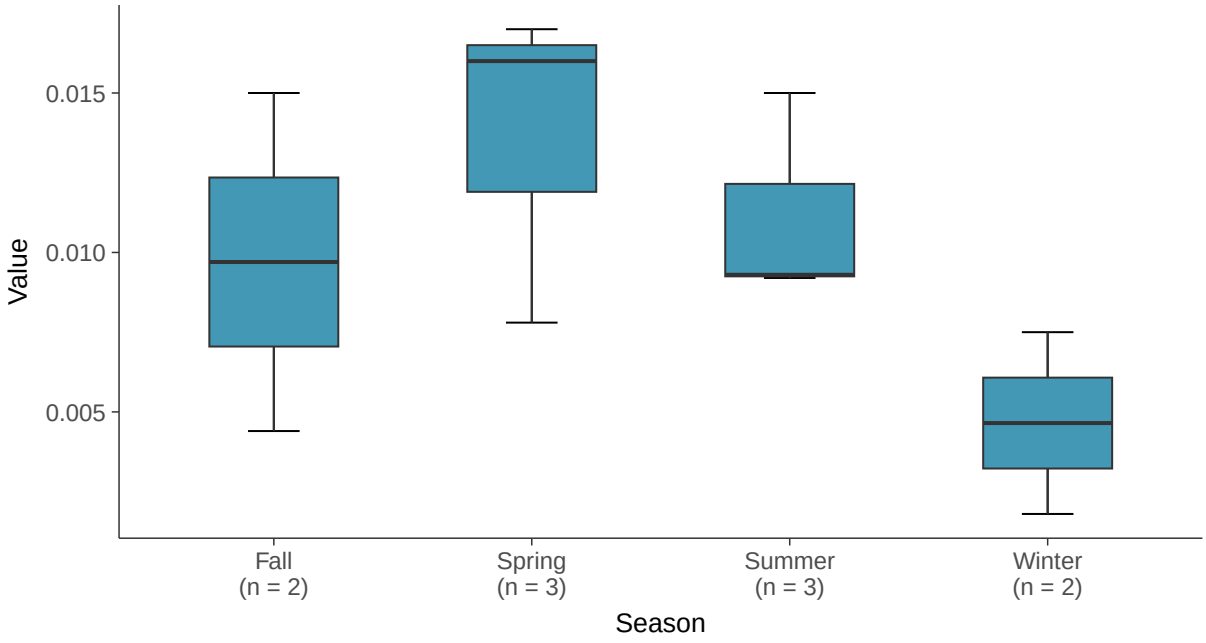
Boxplot

Chromium, Total, MW-28 (mg/L)



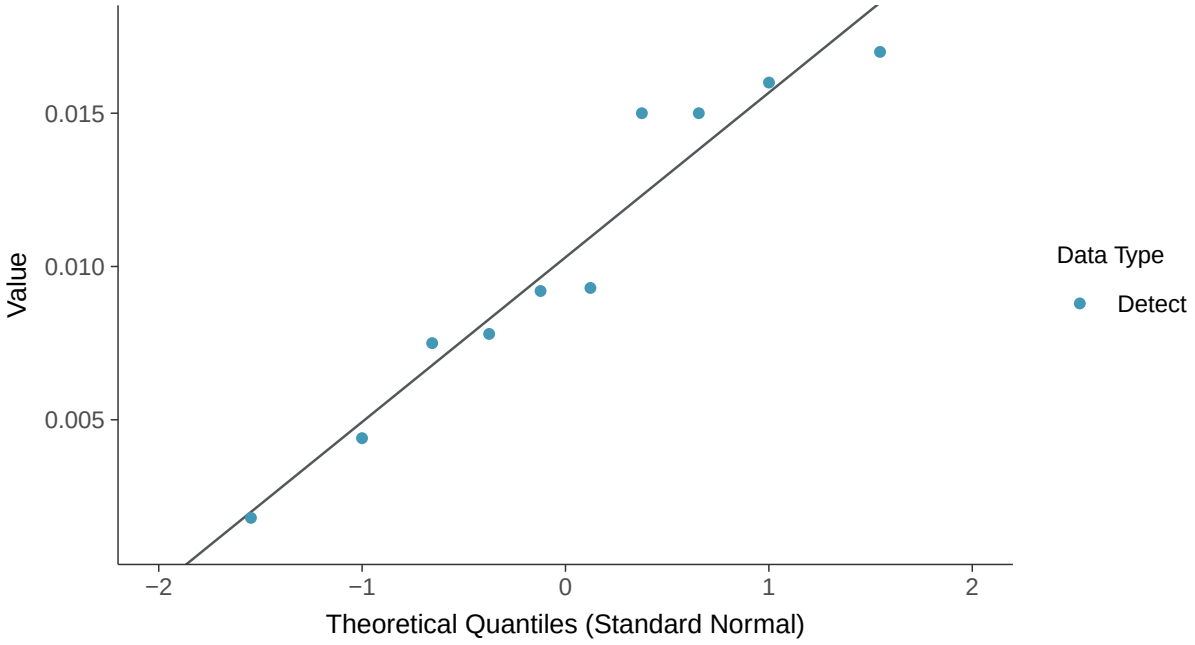
Boxplot by Season

Chromium, Total, MW-28 (mg/L)



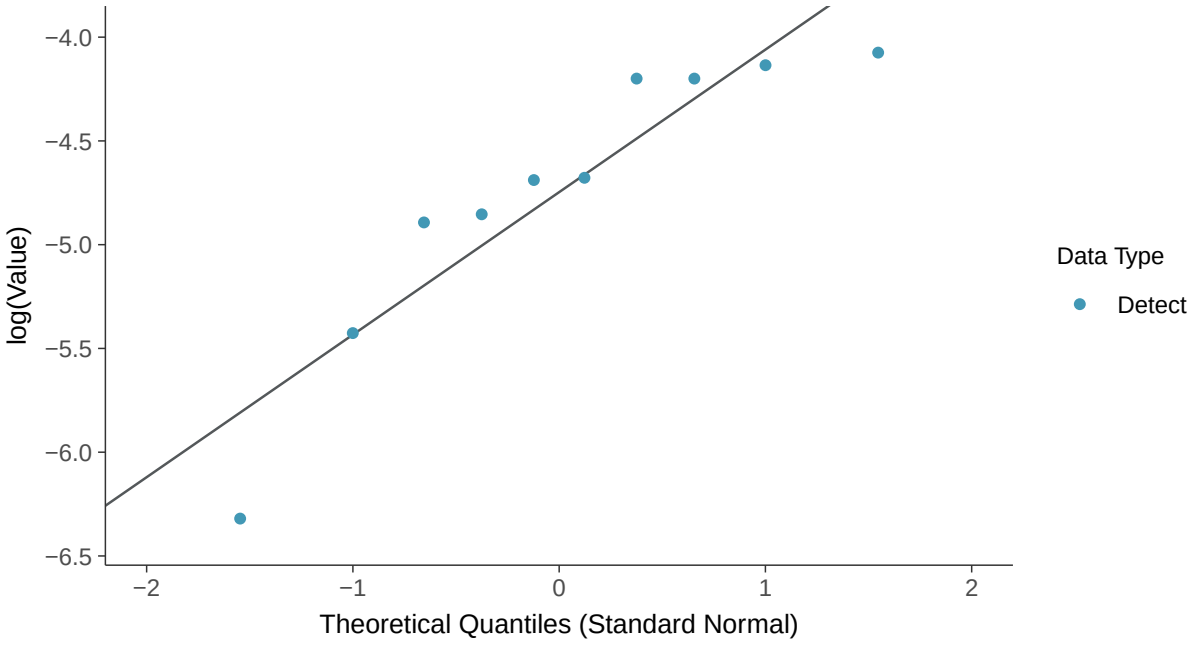
Normal Q-Q plot

Chromium, Total, MW-28 (mg/L)



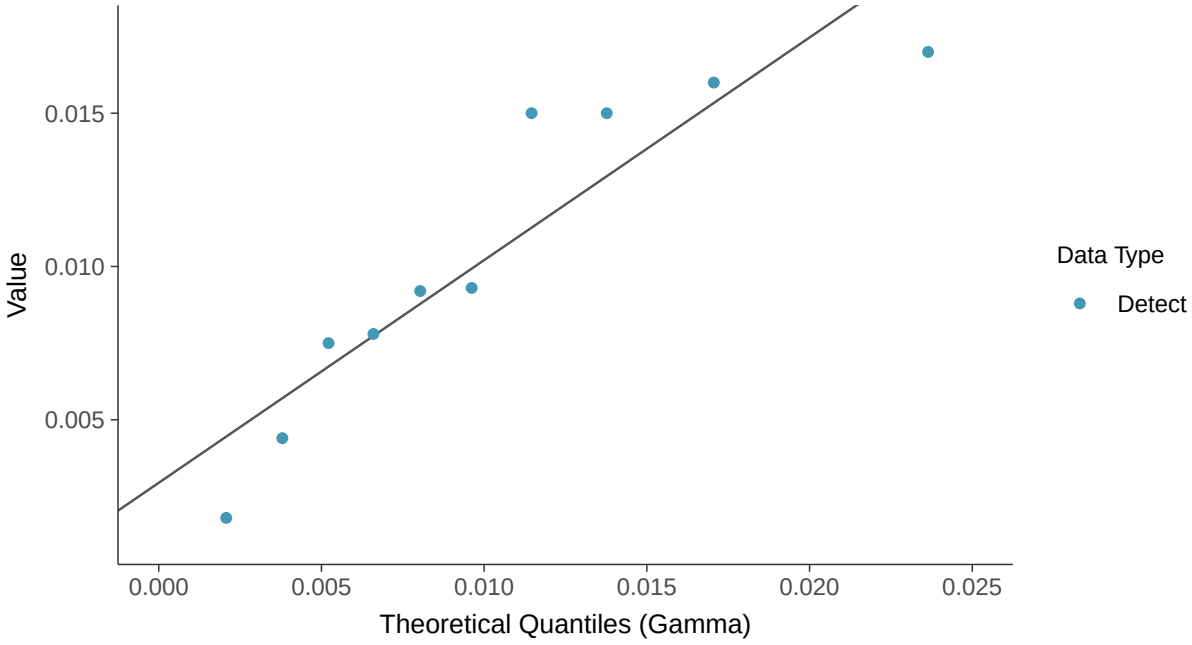
Lognormal Q-Q plot

Chromium, Total, MW-28 (mg/L)



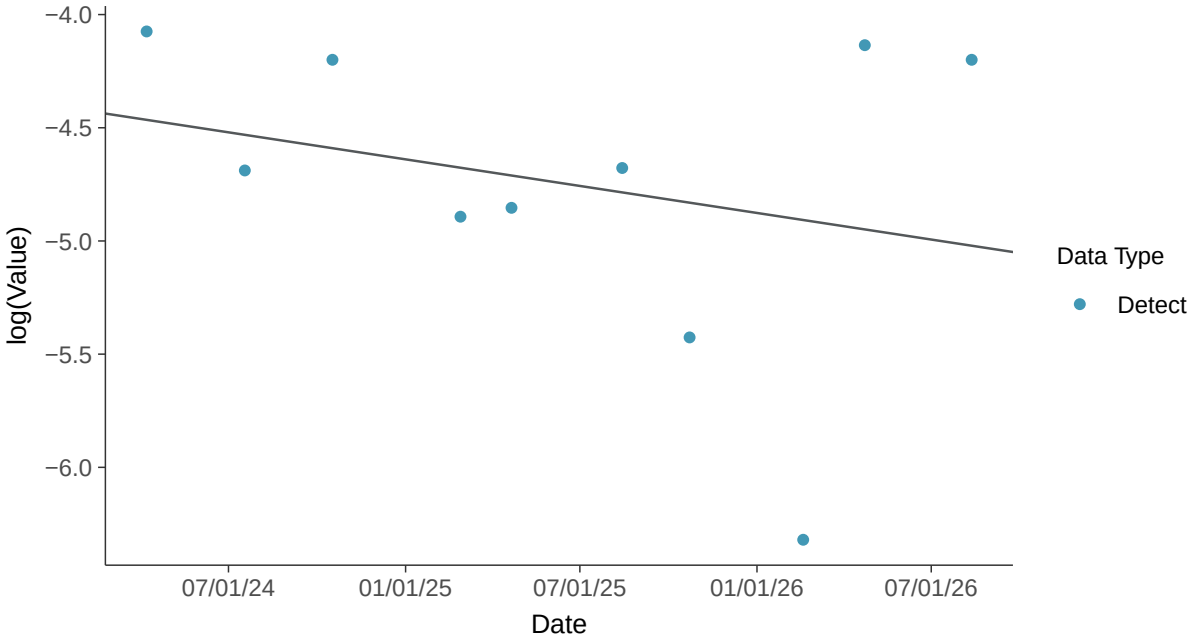
Gamma Q-Q plot

Chromium, Total, MW-28 (mg/L)



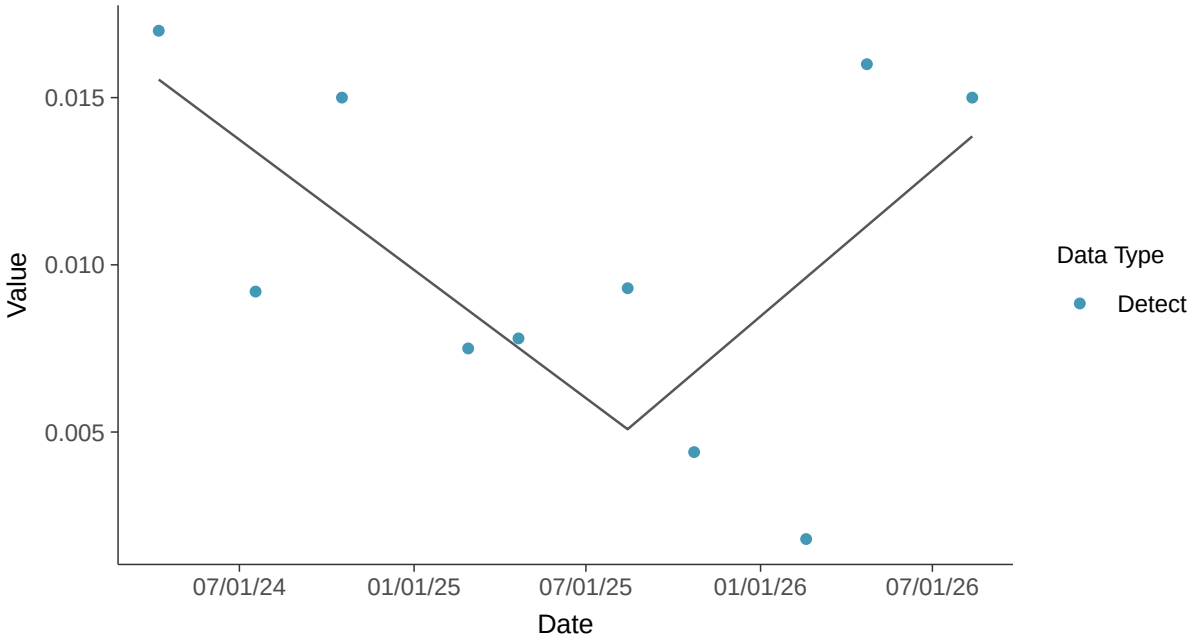
Trend Regression: Lognormal MLE

Chromium, Total, MW-28 (mg/L)



Trend Regression: Piecewise Linear-Linear

Chromium, Total, MW-28 (mg/L)

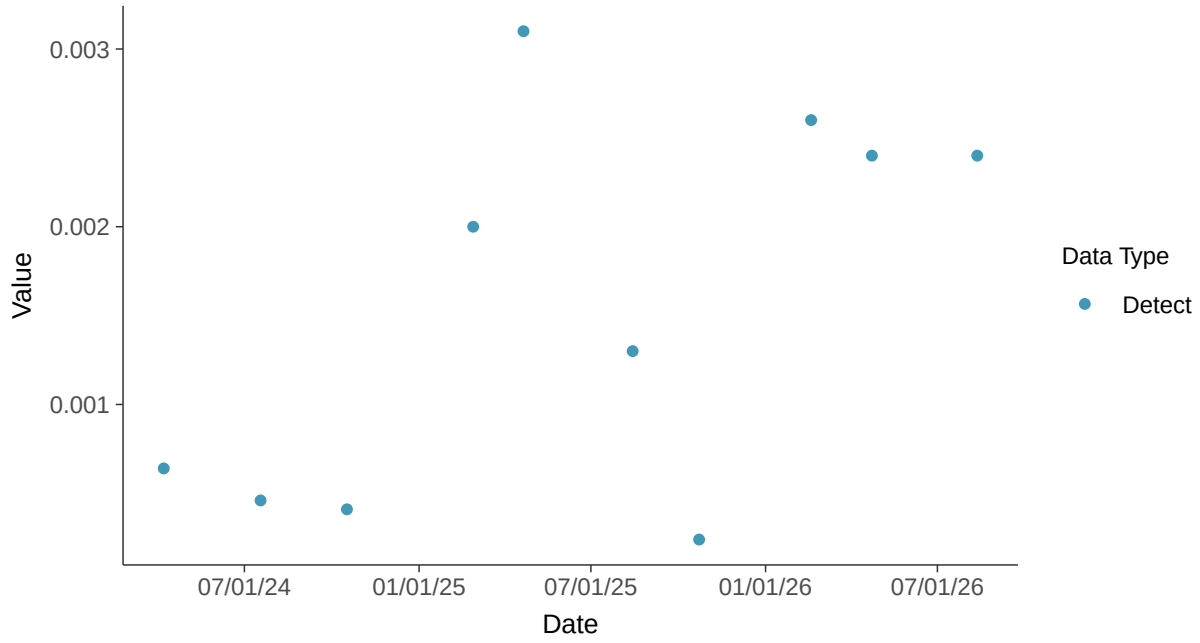


Appendix IV: Cobalt, MW-28

ID: 38_1_4_110

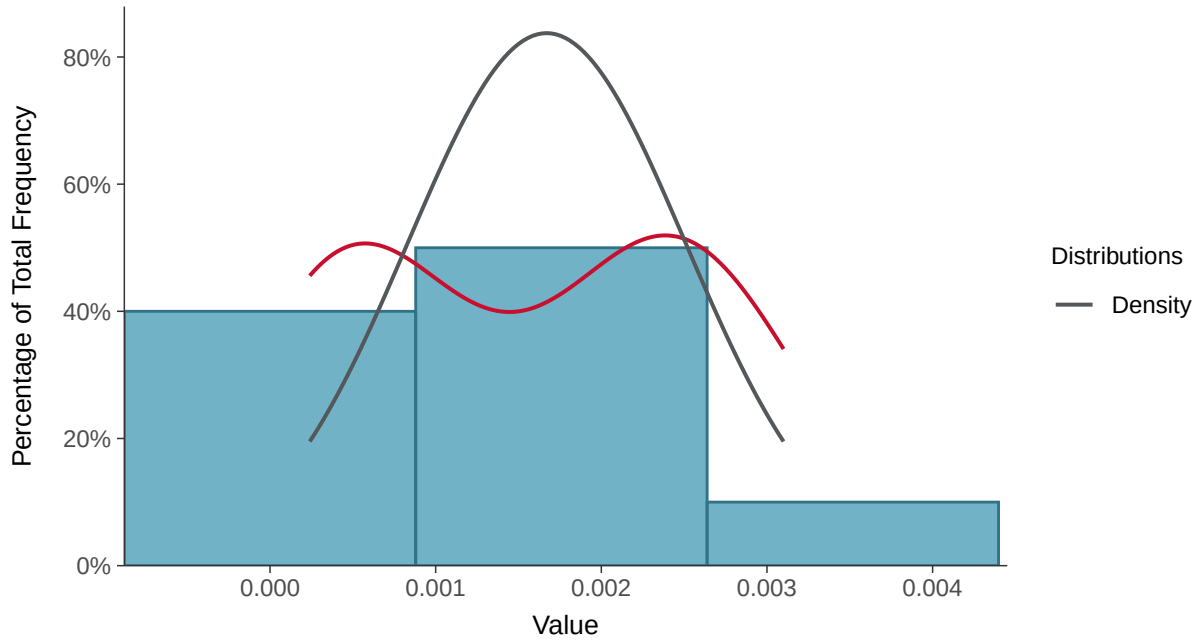
Scatter Plot

Cobalt, MW-28 (mg/L)



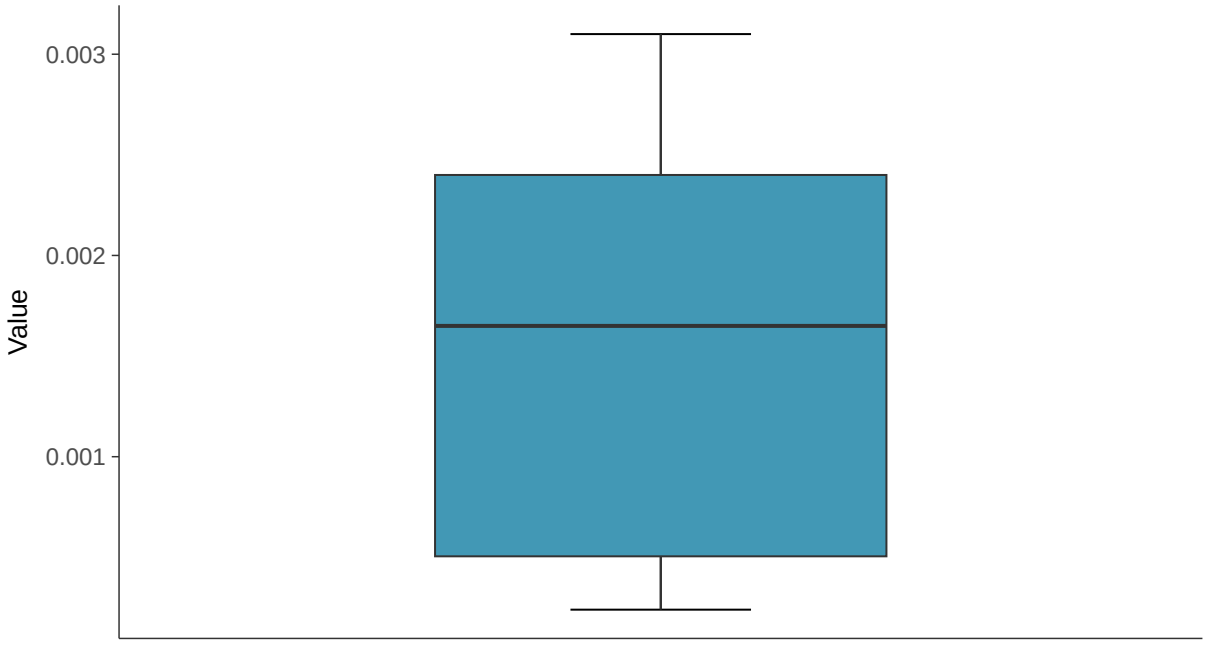
Histogram

Cobalt, MW-28 (mg/L)



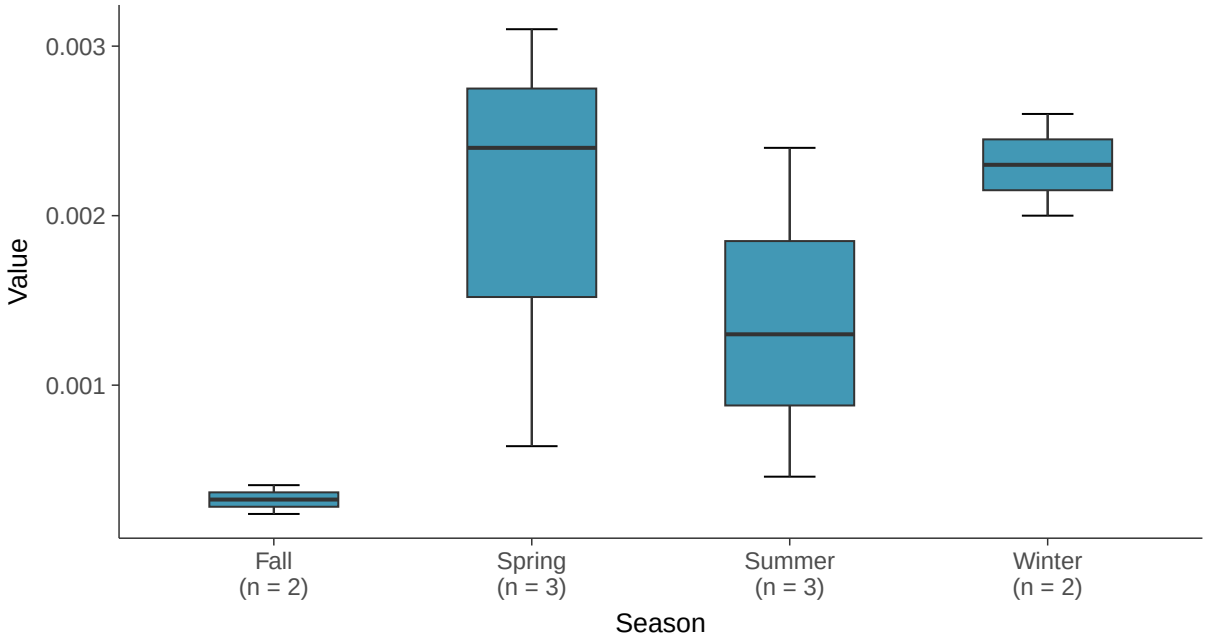
Boxplot

Cobalt, MW-28 (mg/L)



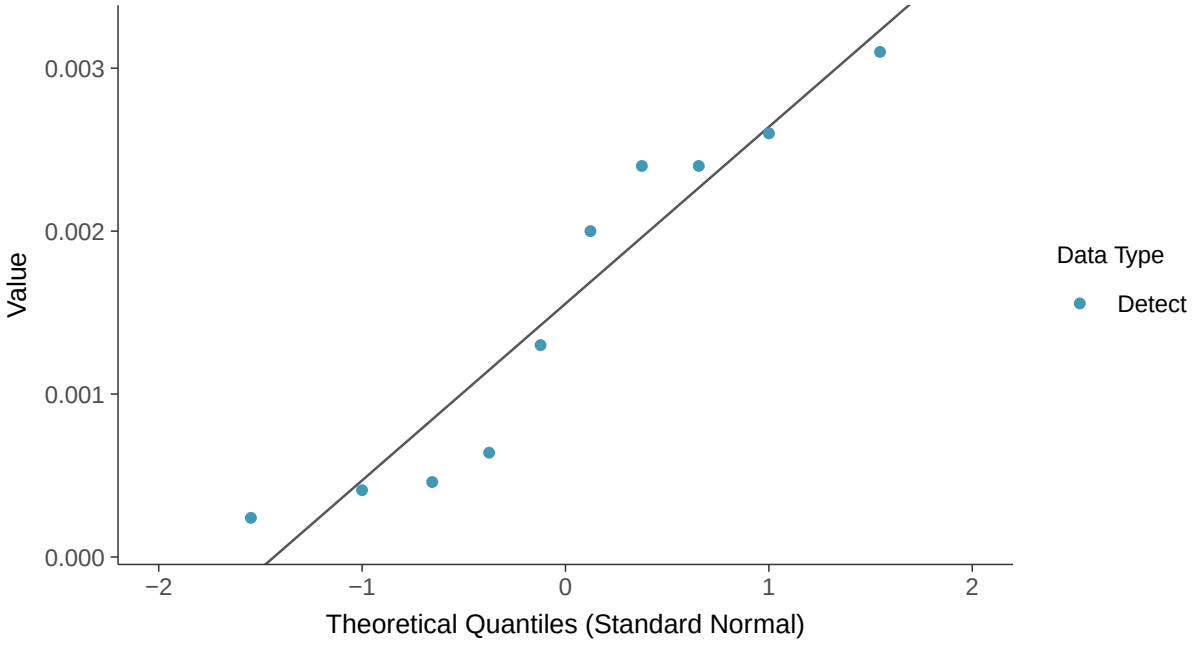
Boxplot by Season

Cobalt, MW-28 (mg/L)



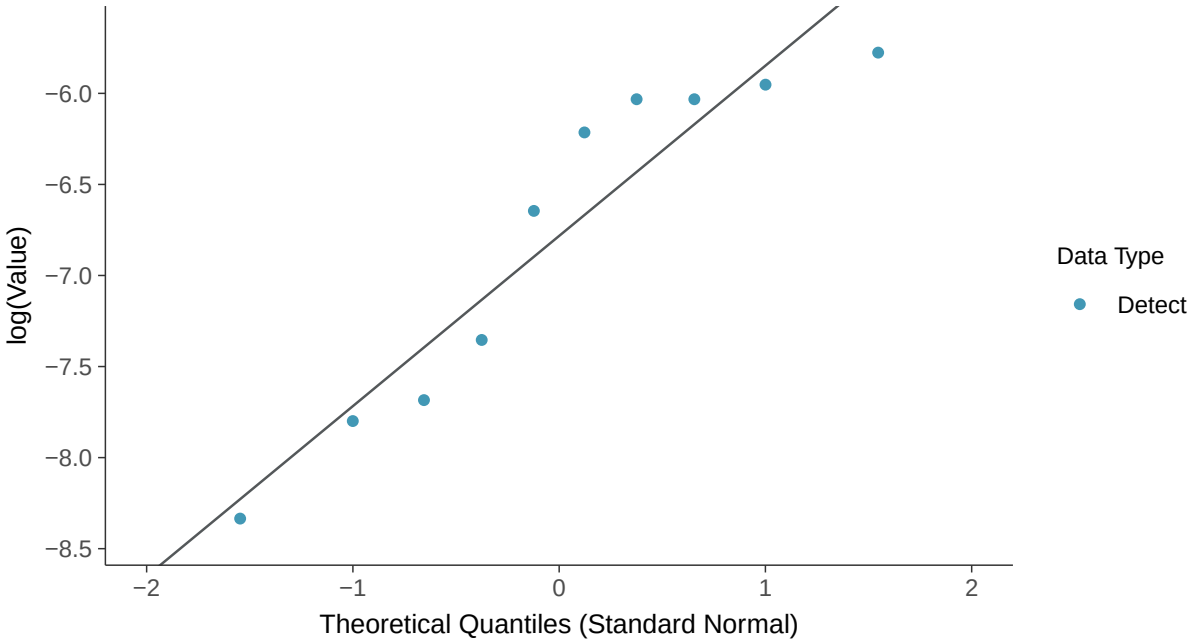
Normal Q-Q plot

Cobalt, MW-28 (mg/L)



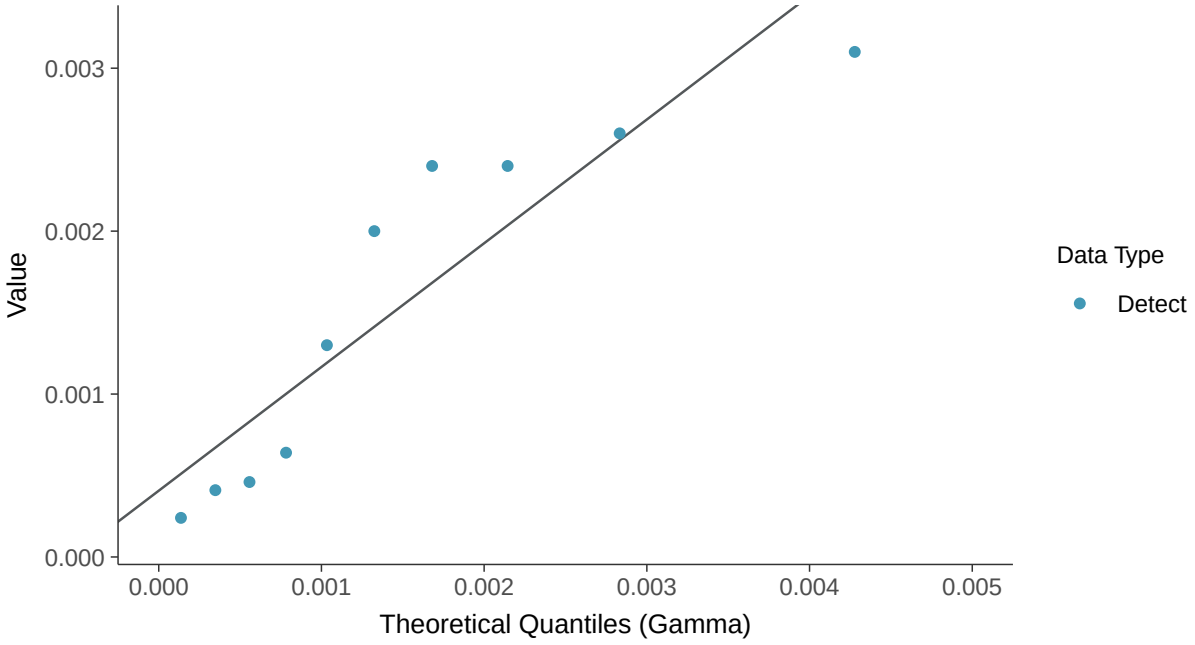
Lognormal Q-Q plot

Cobalt, MW-28 (mg/L)



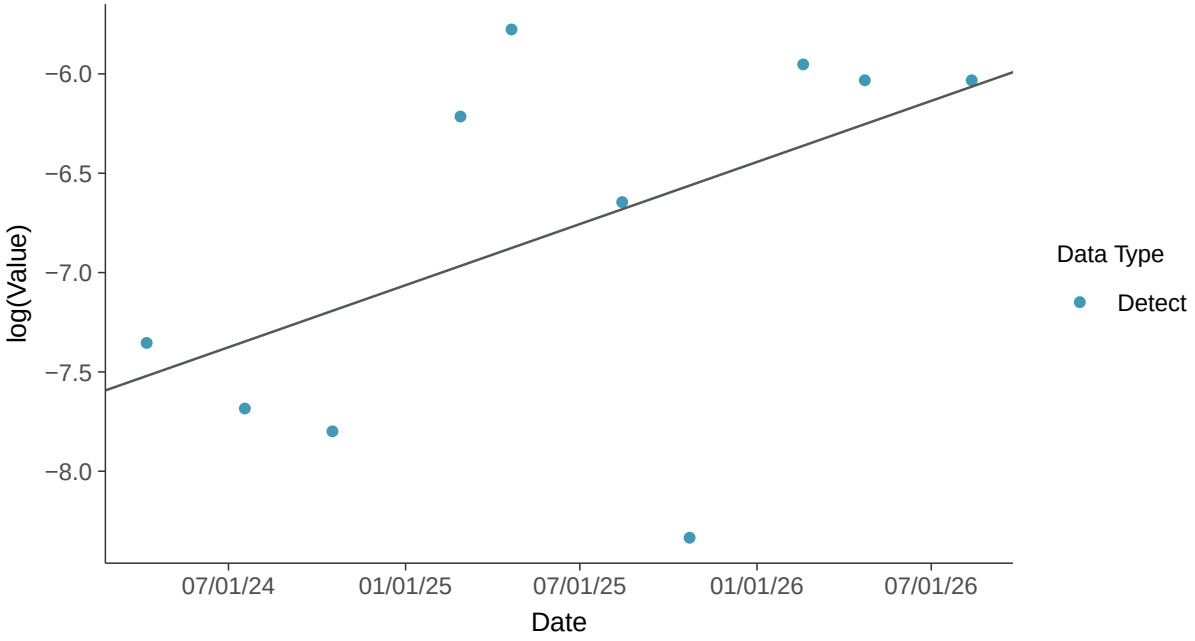
Gamma Q-Q plot

Cobalt, MW-28 (mg/L)



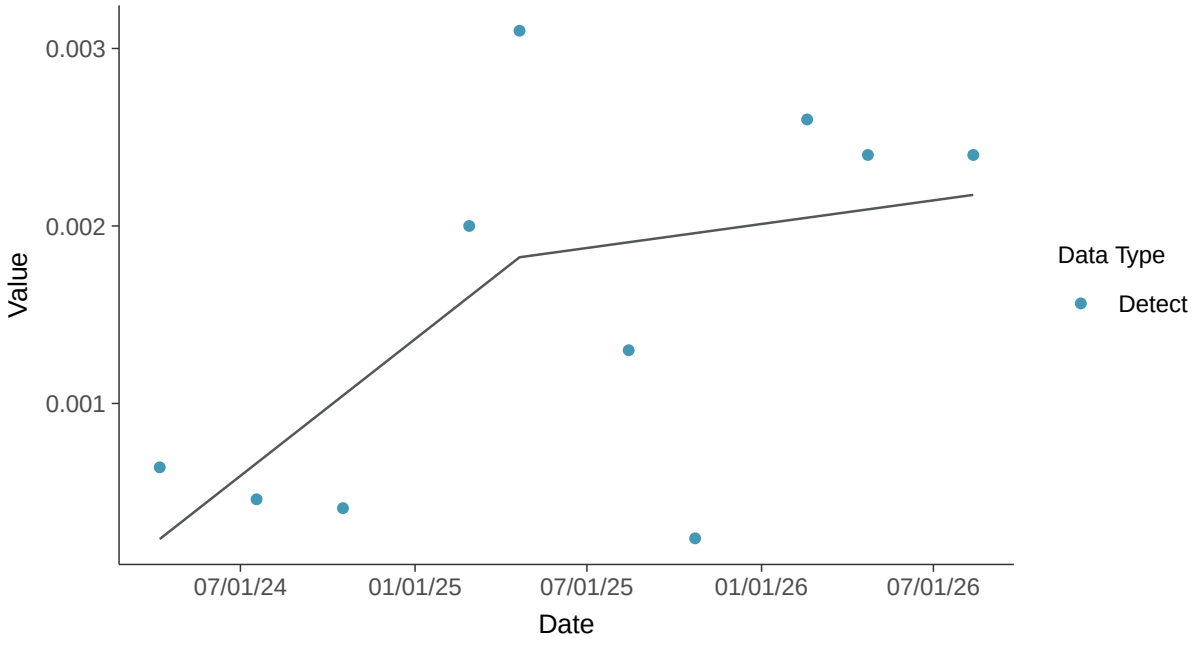
Trend Regression: Lognormal MLE

Cobalt, MW-28 (mg/L)



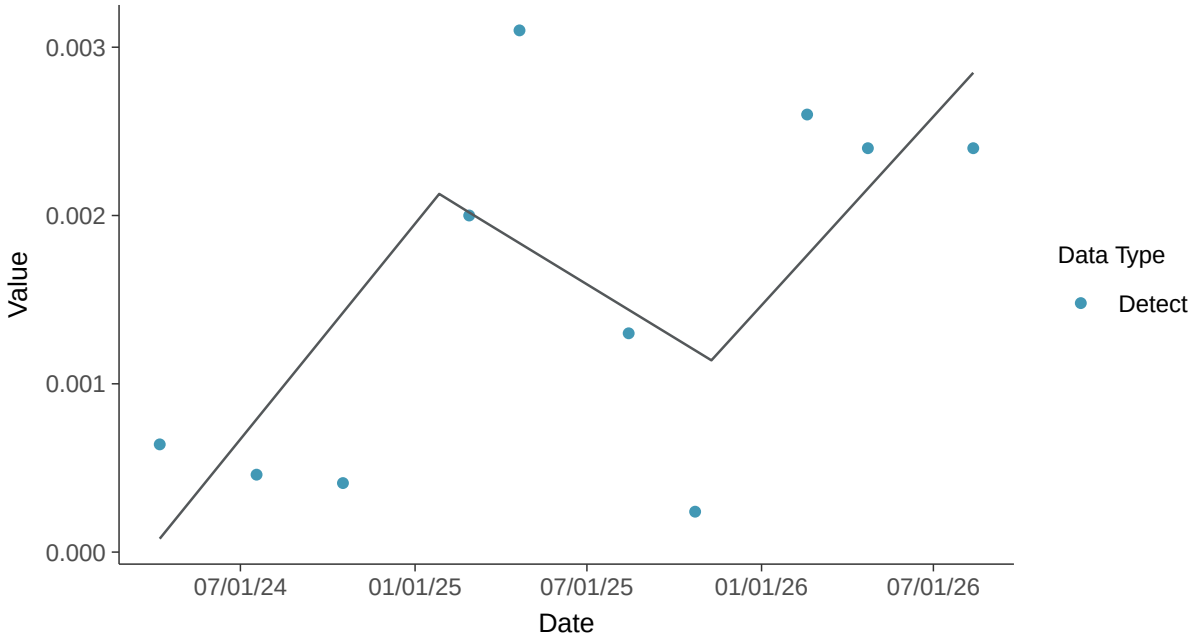
Trend Regression: Piecewise Linear-Linear

Cobalt, MW-28 (mg/L)



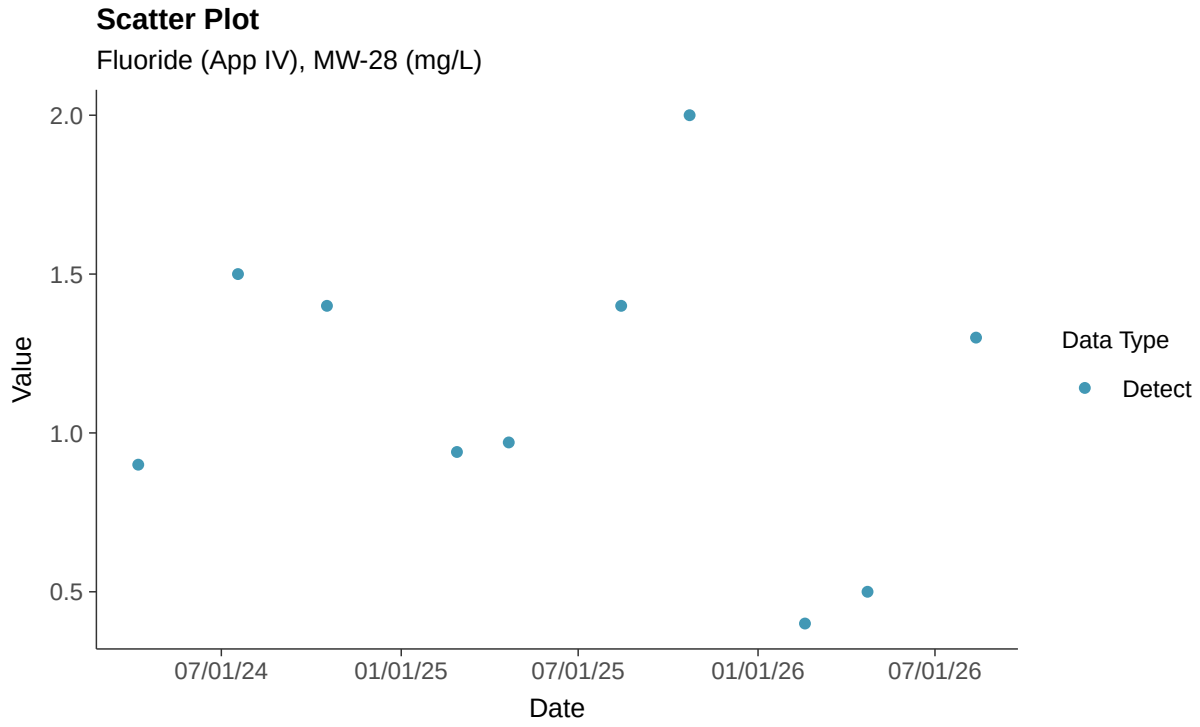
Trend Regression: Piecewise Linear-Linear-Linear

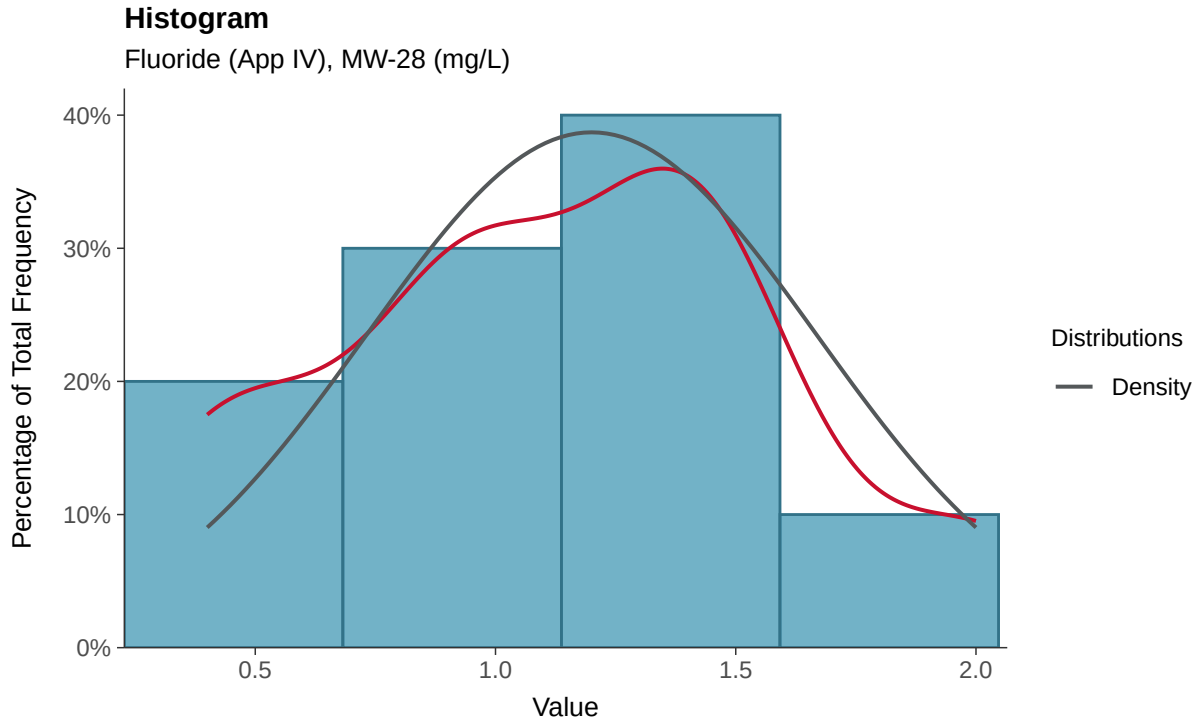
Cobalt, MW-28 (mg/L)



Appendix IV: Fluoride (App IV), MW-28

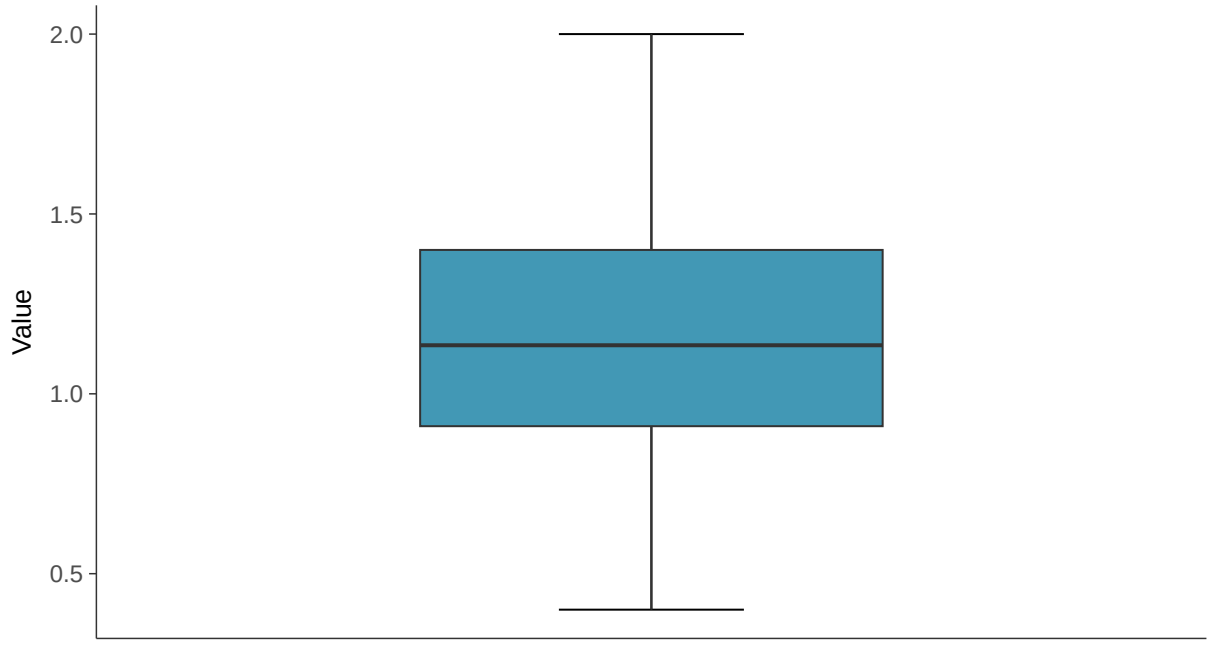
ID: 38_1_4_113





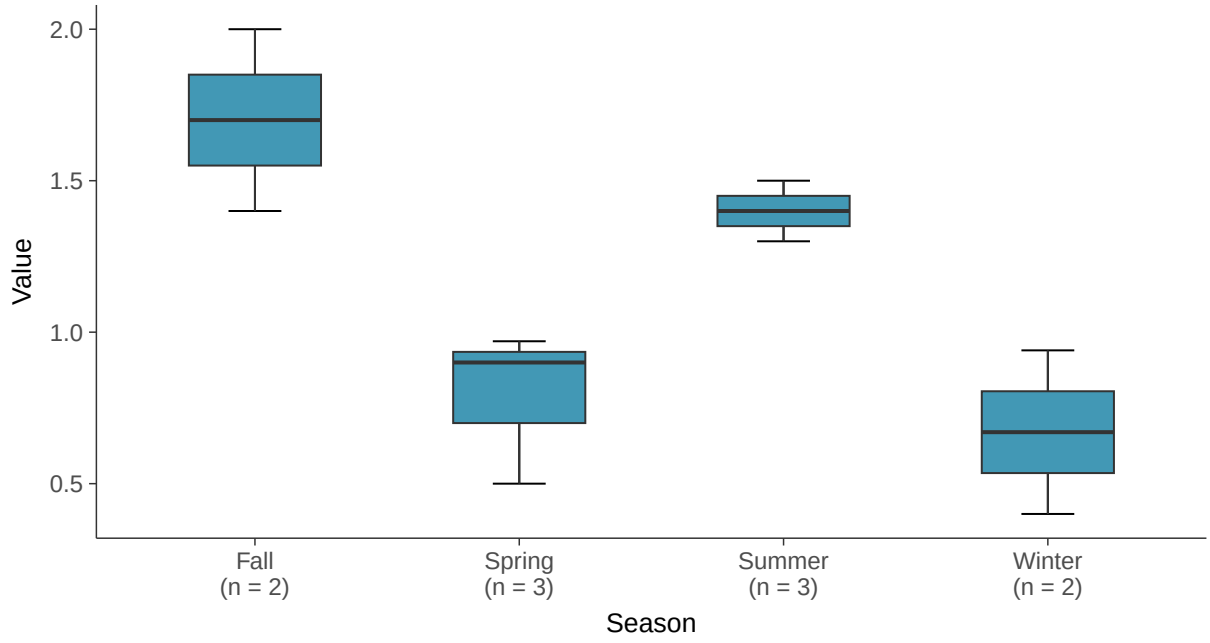
Boxplot

Fluoride (App IV), MW-28 (mg/L)



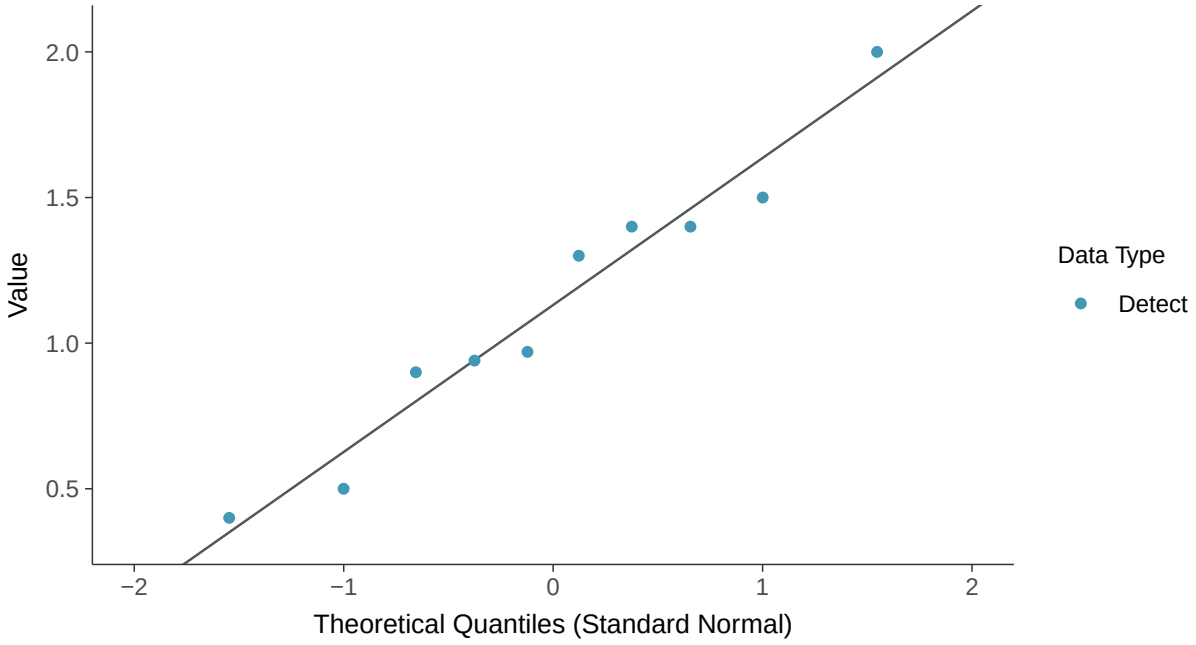
Boxplot by Season

Fluoride (App IV), MW-28 (mg/L)



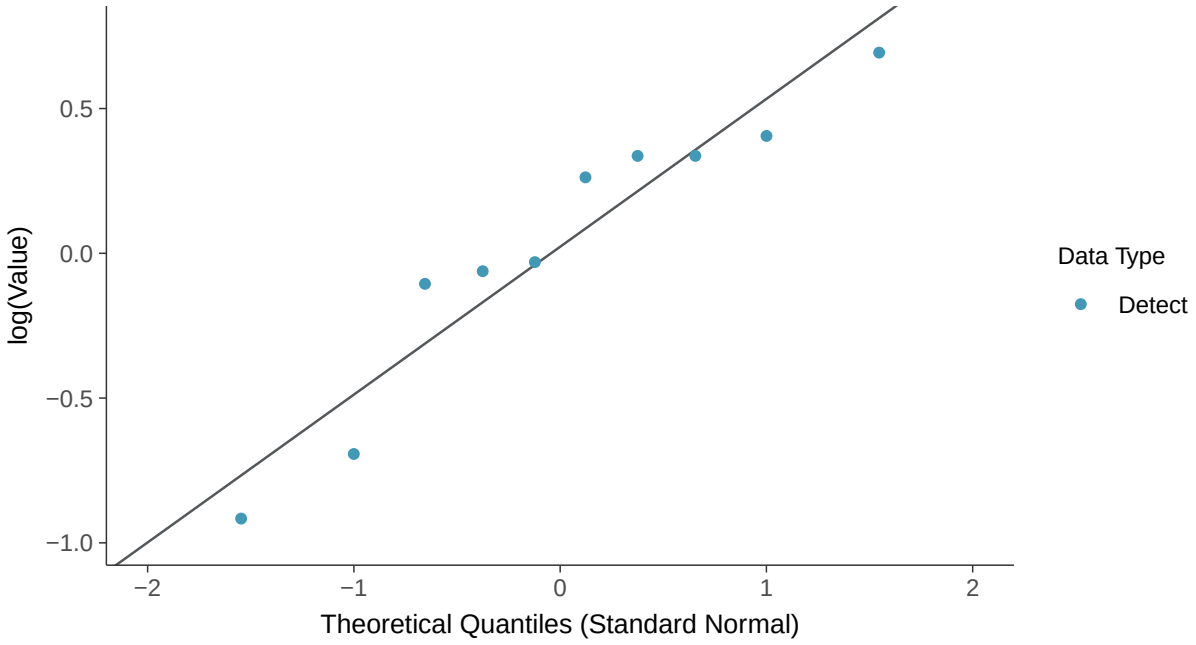
Normal Q-Q plot

Fluoride (App IV), MW-28 (mg/L)



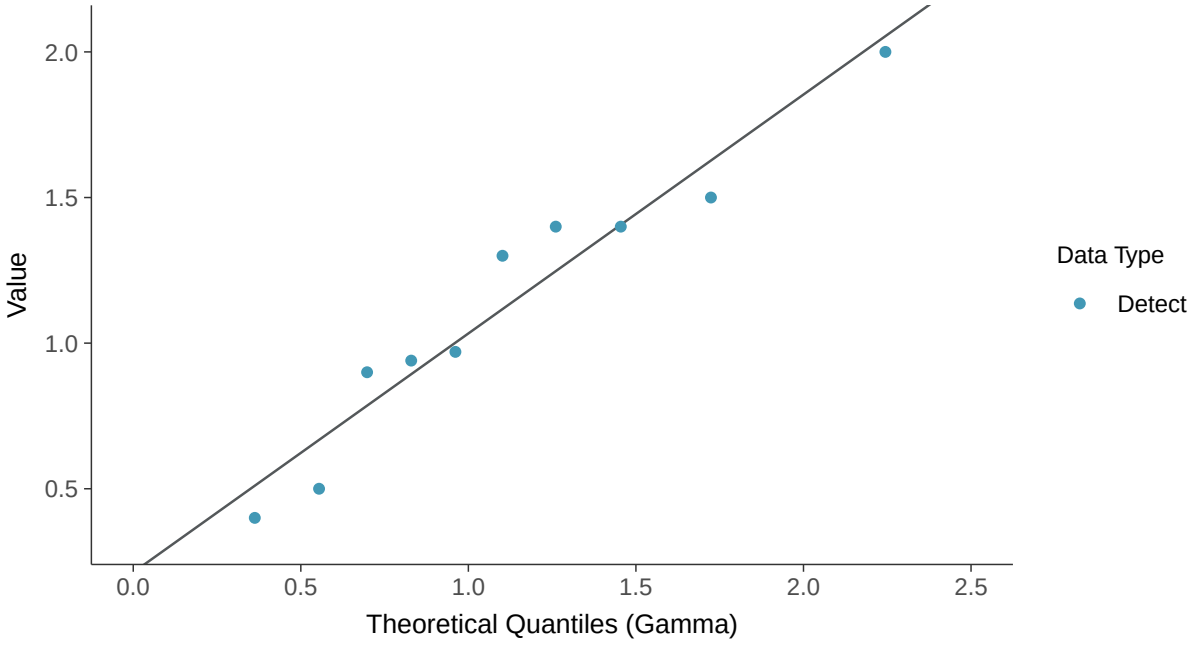
Lognormal Q-Q plot

Fluoride (App IV), MW-28 (mg/L)



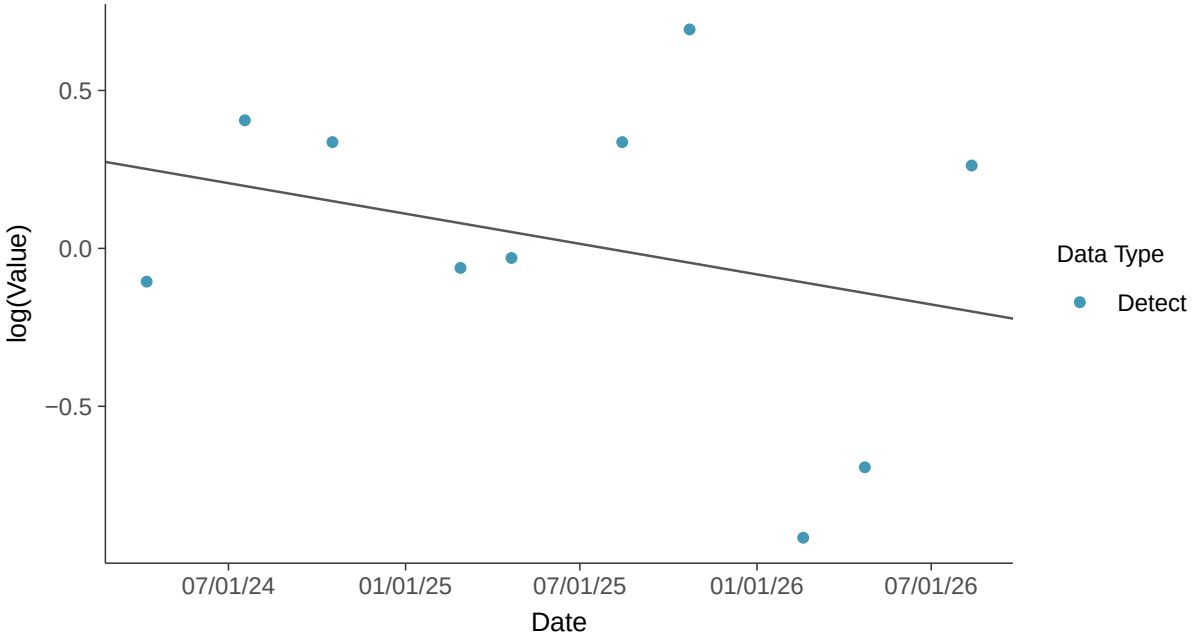
Gamma Q-Q plot

Fluoride (App IV), MW-28 (mg/L)



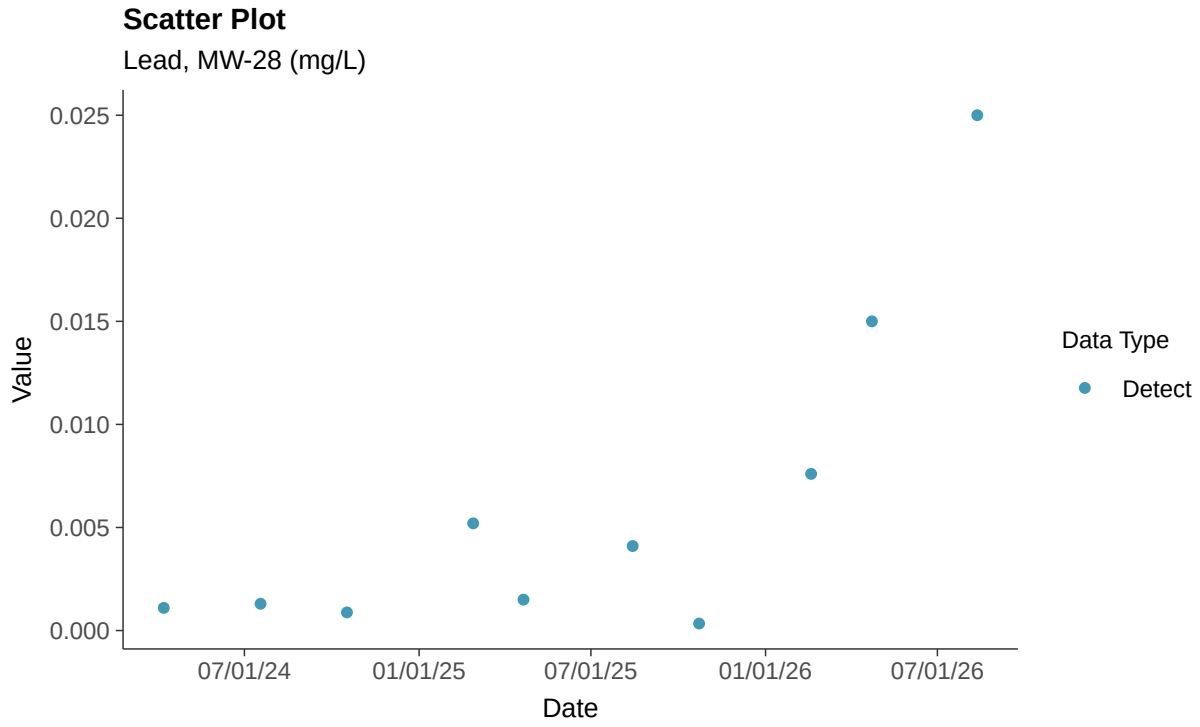
Trend Regression: Lognormal MLE

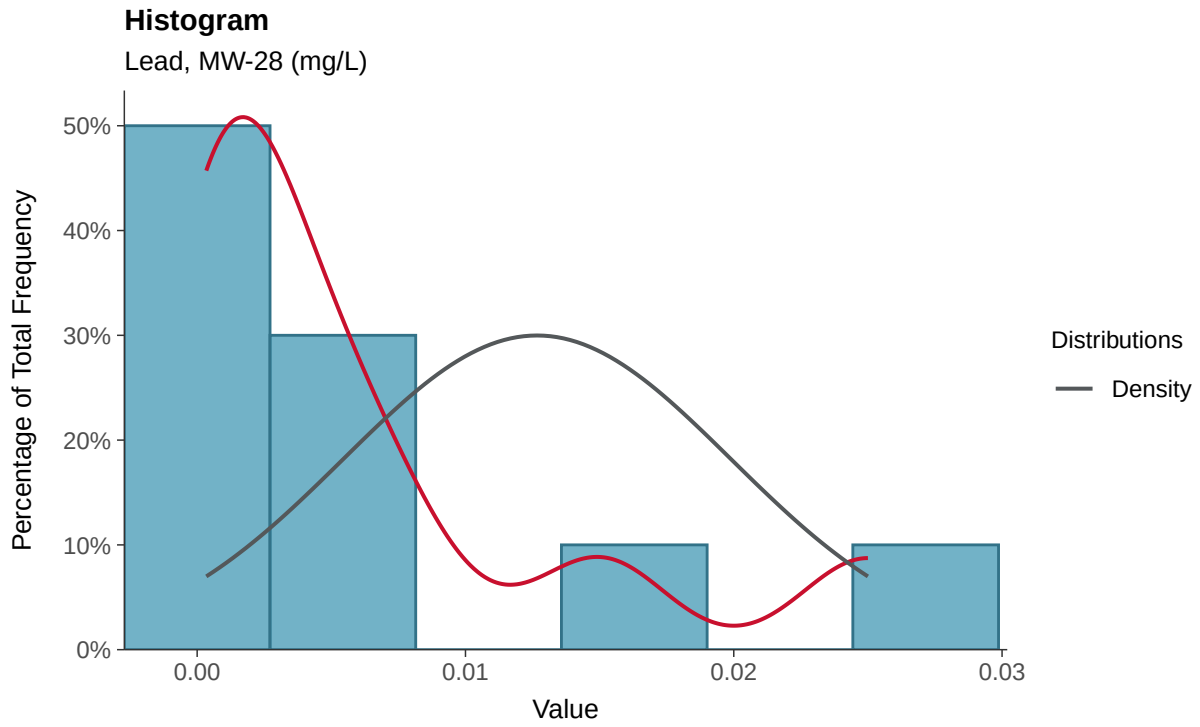
Fluoride (App IV), MW-28 (mg/L)



Appendix IV: Lead, MW-28

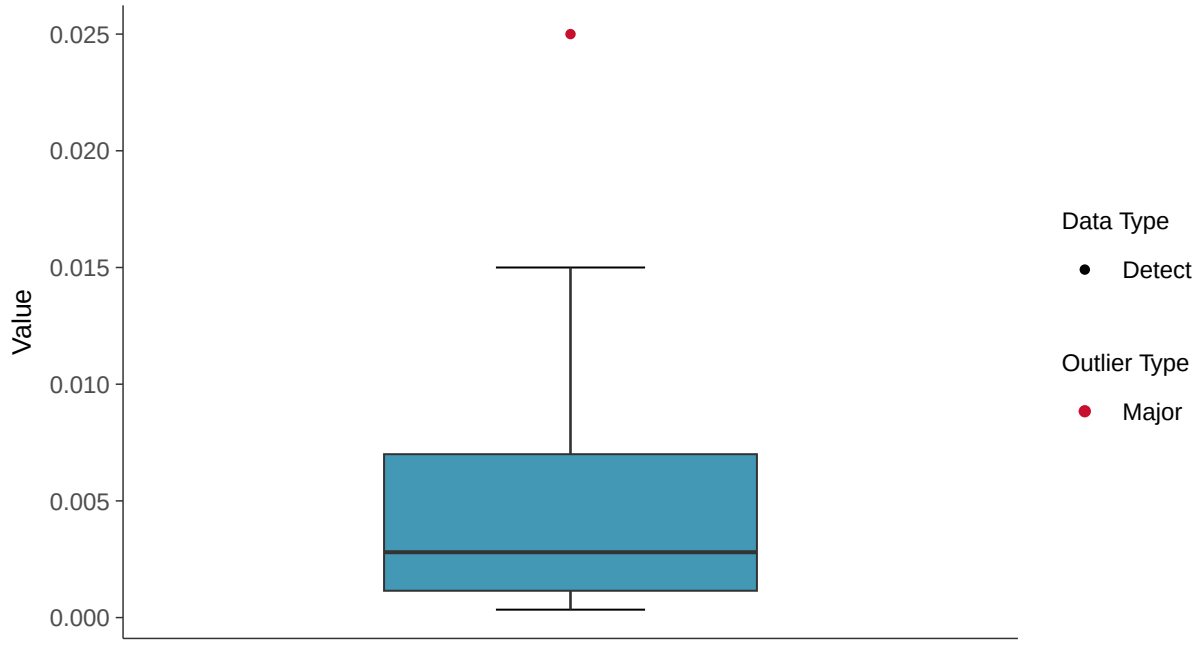
ID: 38_1_4_115





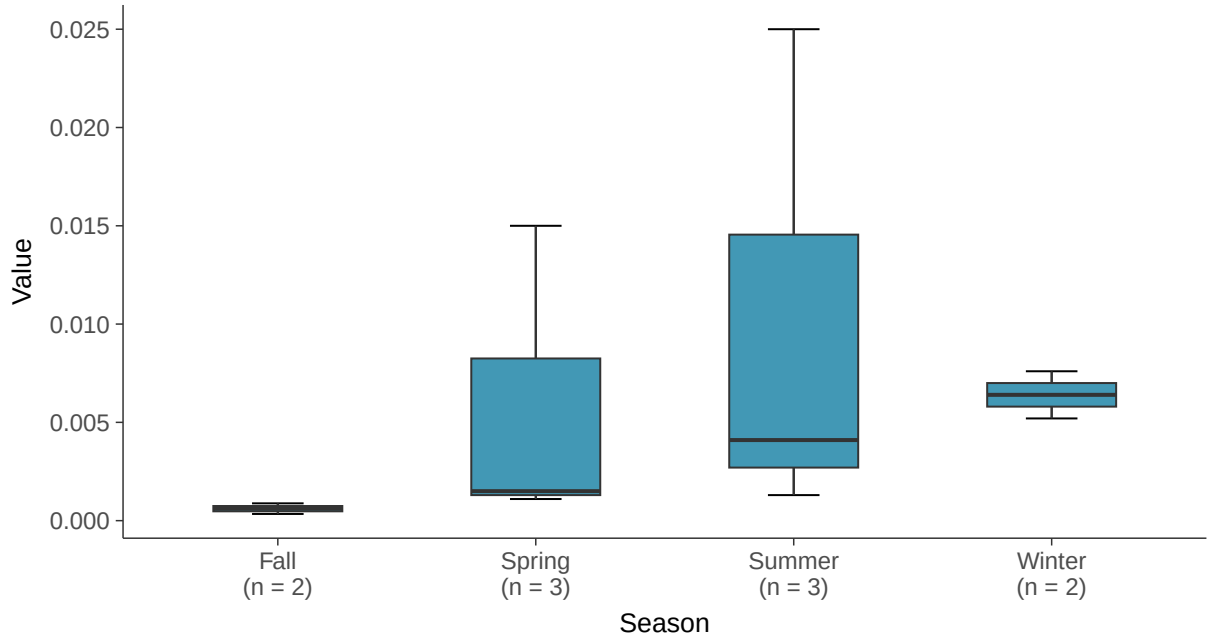
Boxplot

Lead, MW-28 (mg/L)



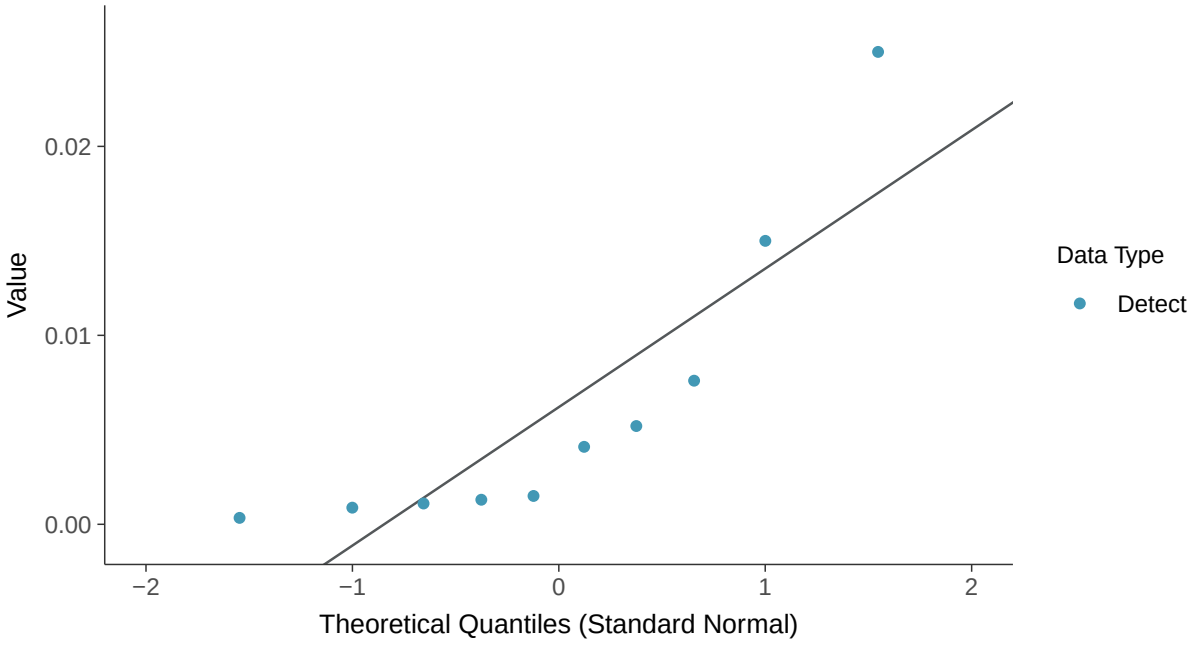
Boxplot by Season

Lead, MW-28 (mg/L)



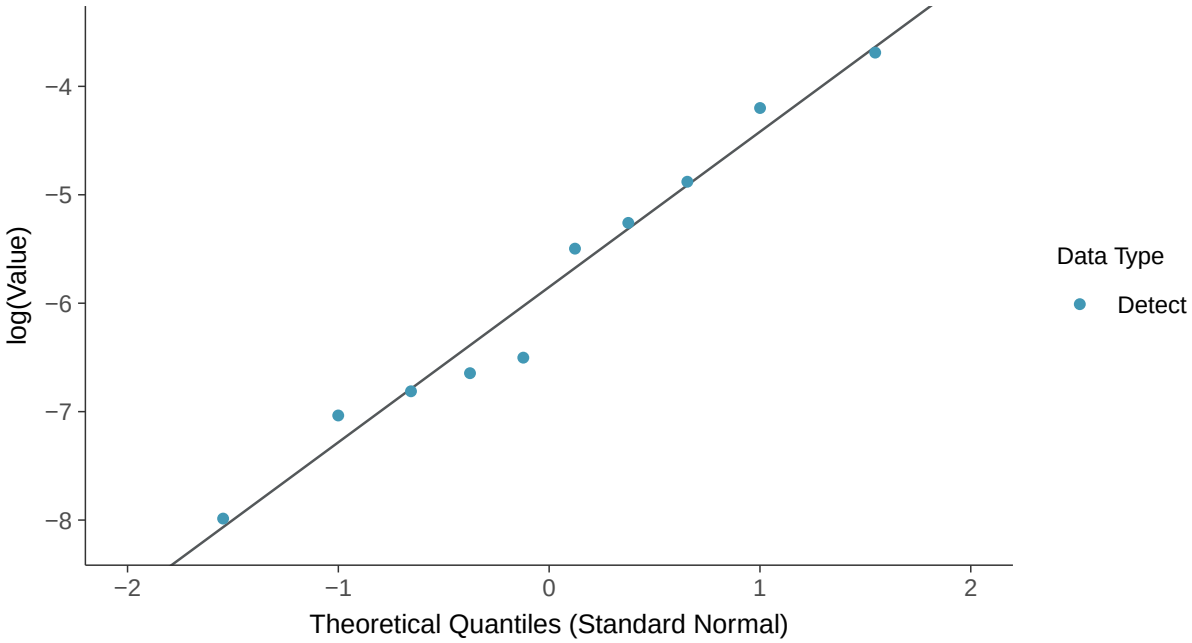
Normal Q-Q plot

Lead, MW-28 (mg/L)



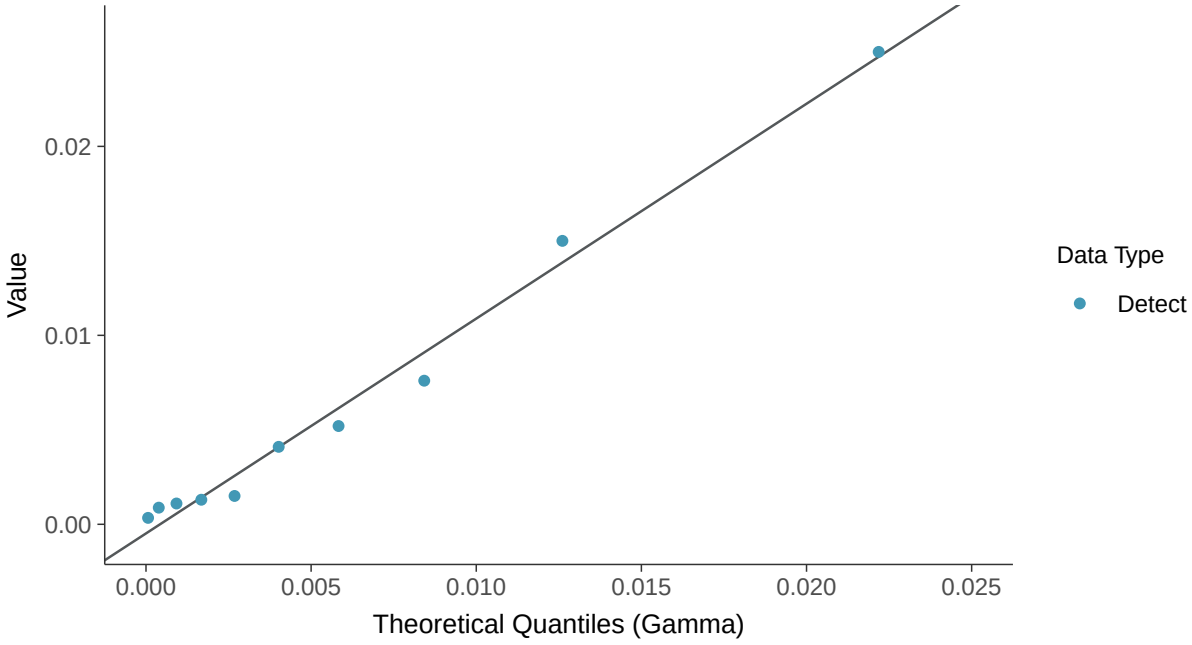
Lognormal Q-Q plot

Lead, MW-28 (mg/L)



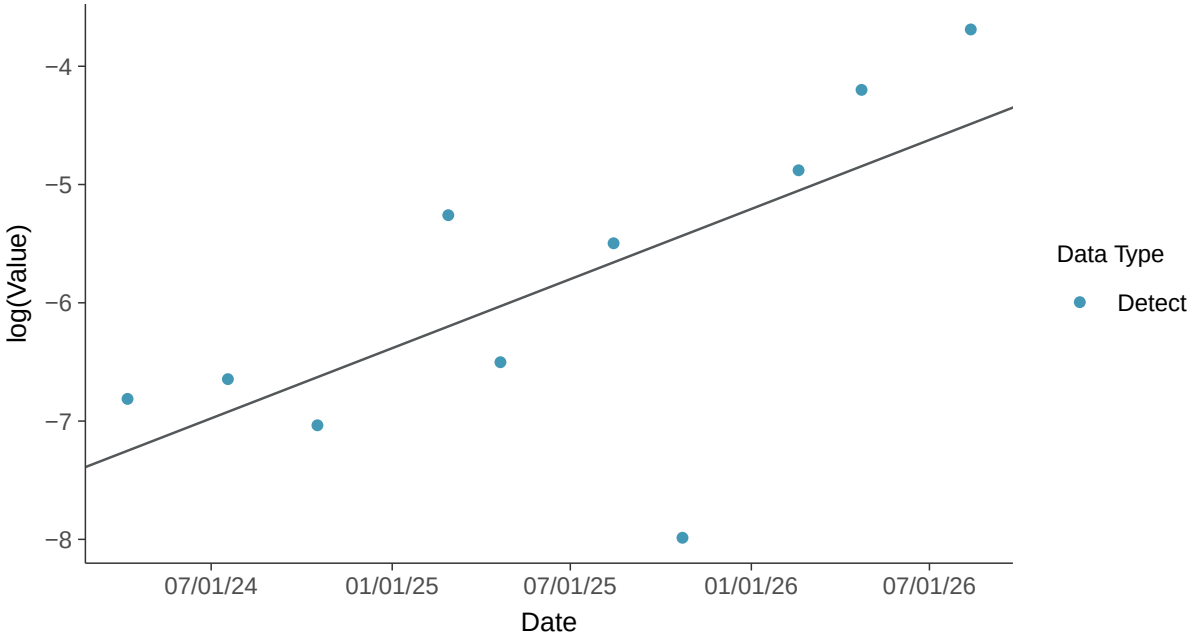
Gamma Q-Q plot

Lead, MW-28 (mg/L)



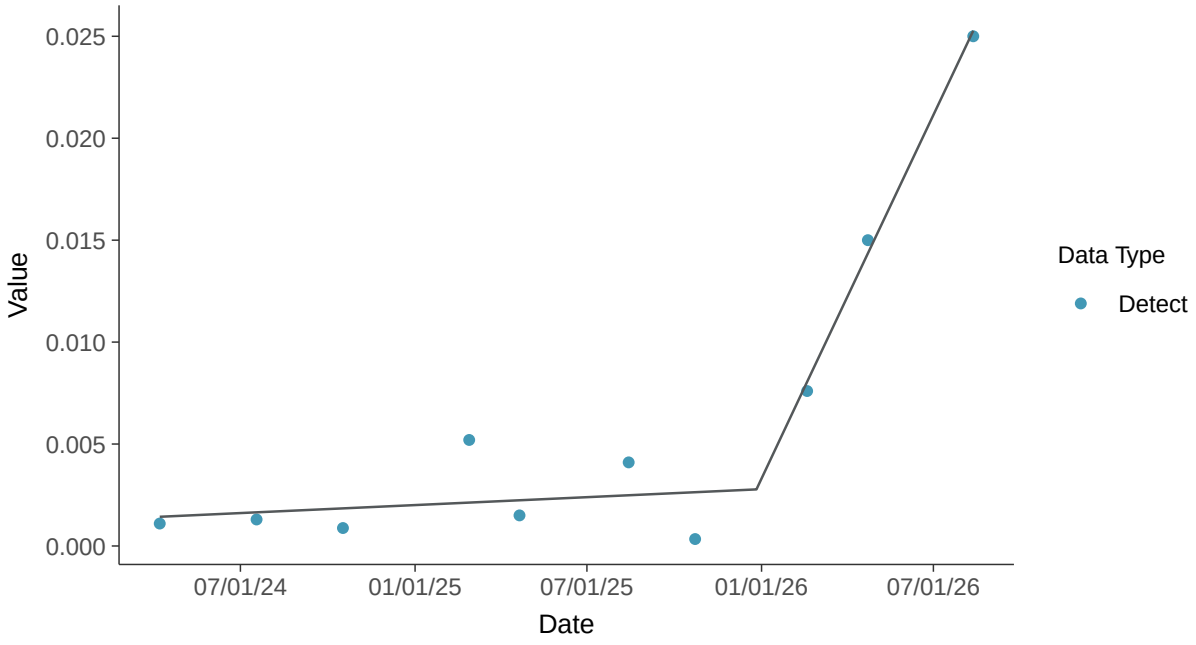
Trend Regression: Lognormal MLE

Lead, MW-28 (mg/L)



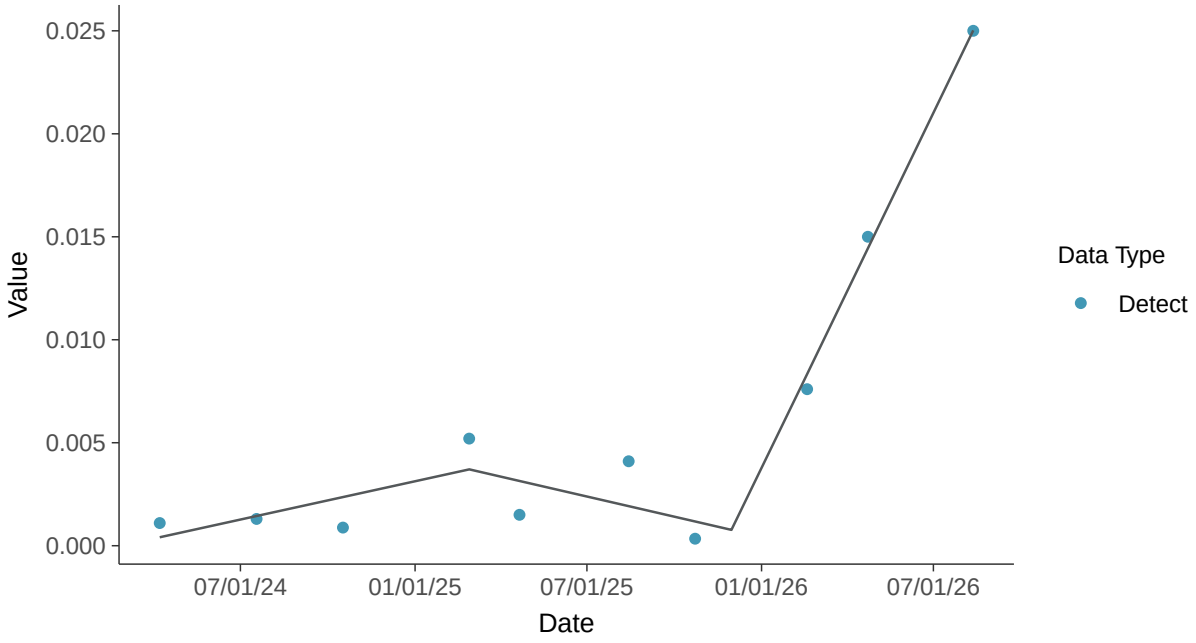
Trend Regression: Piecewise Linear-Linear

Lead, MW-28 (mg/L)



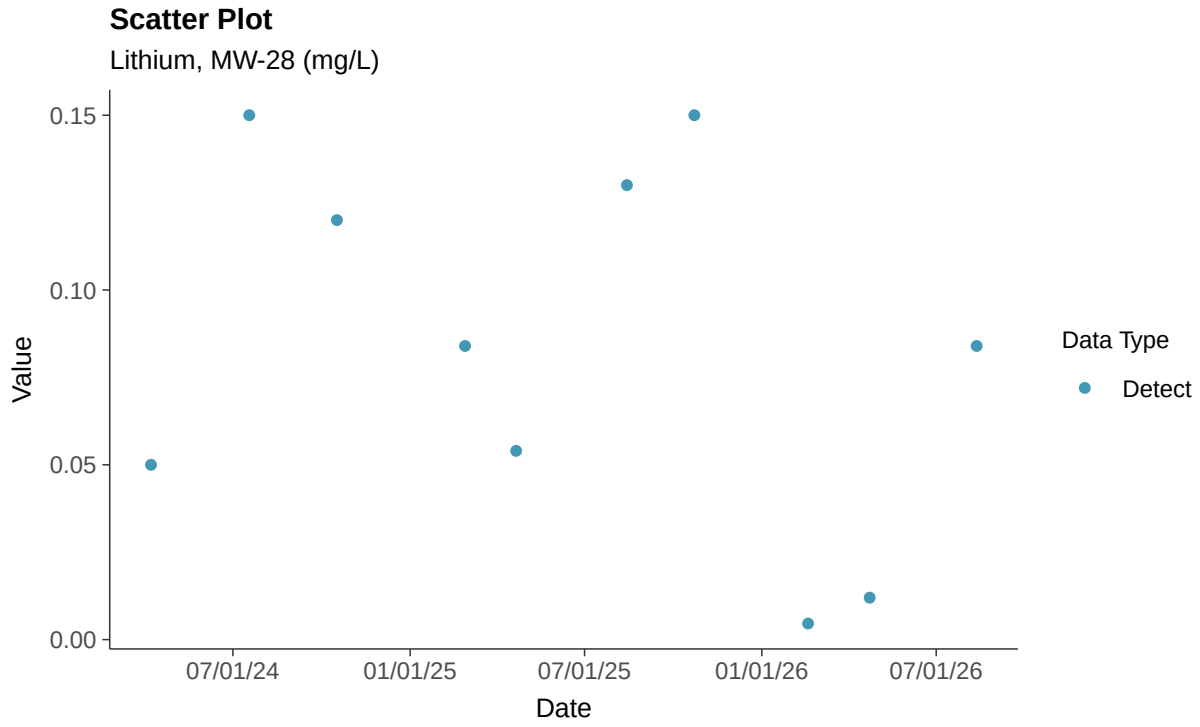
Trend Regression: Piecewise Linear-Linear-Linear

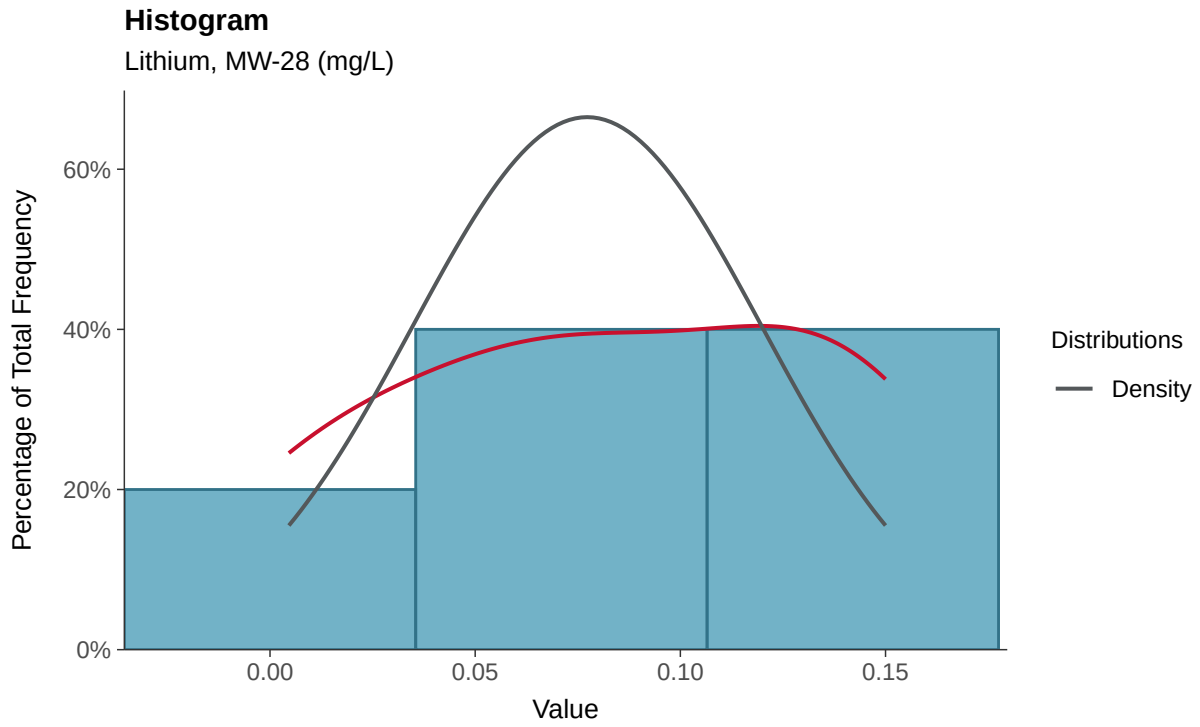
Lead, MW-28 (mg/L)



Appendix IV: Lithium, MW-28

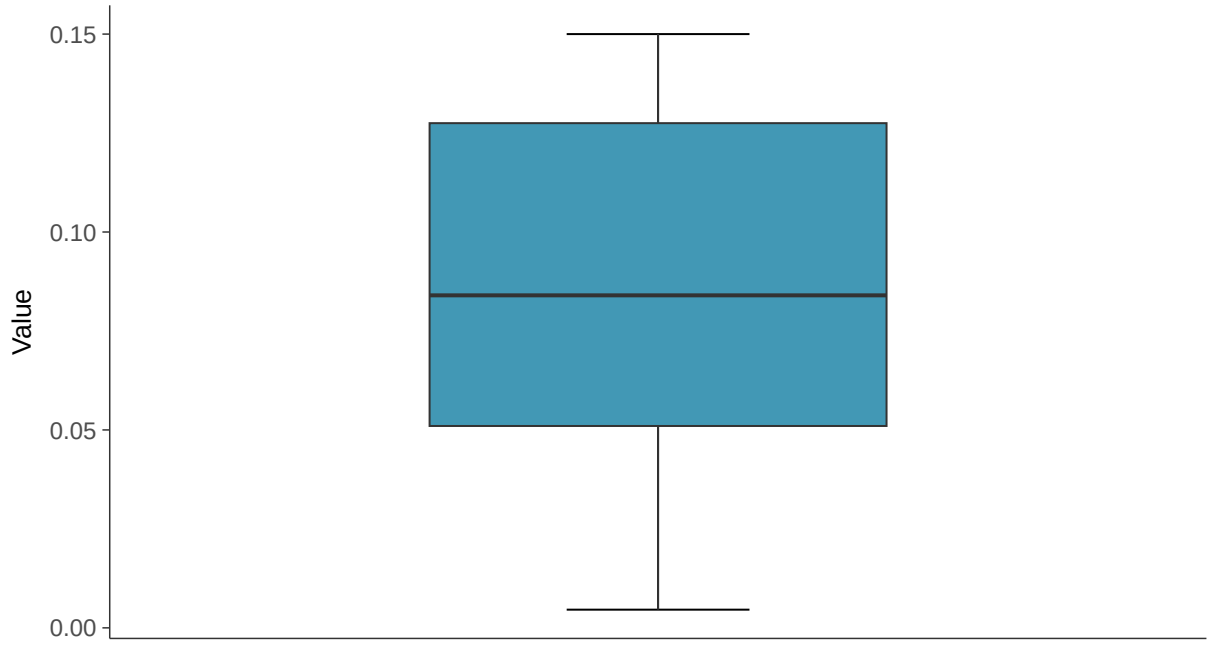
ID: 38_1_4_116





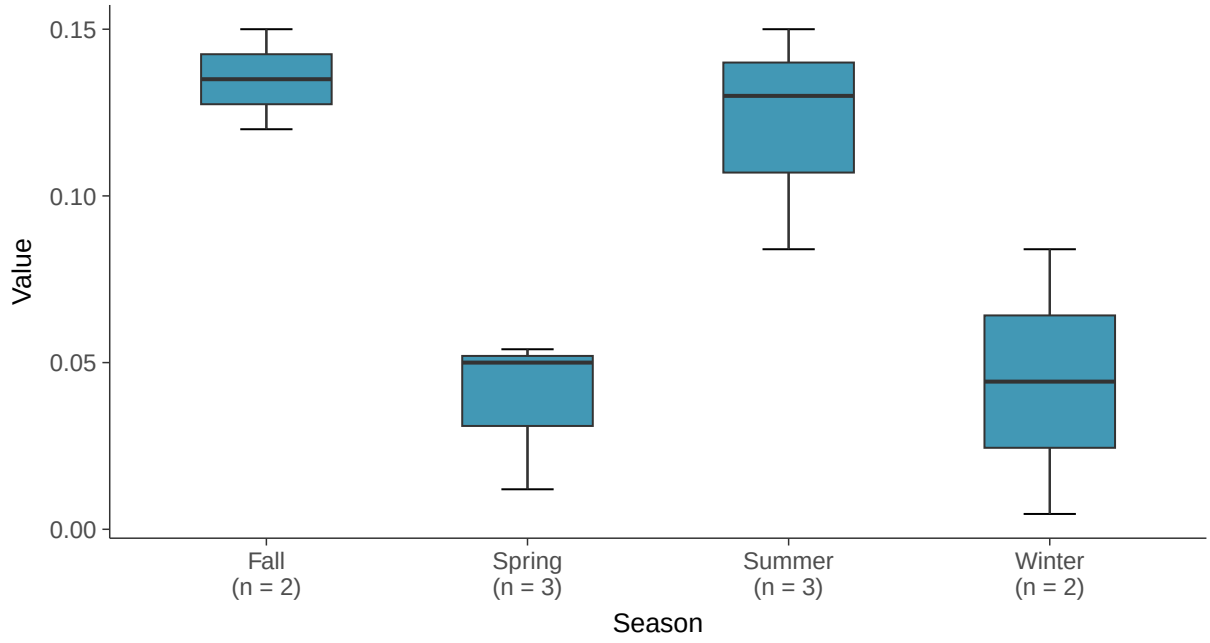
Boxplot

Lithium, MW-28 (mg/L)



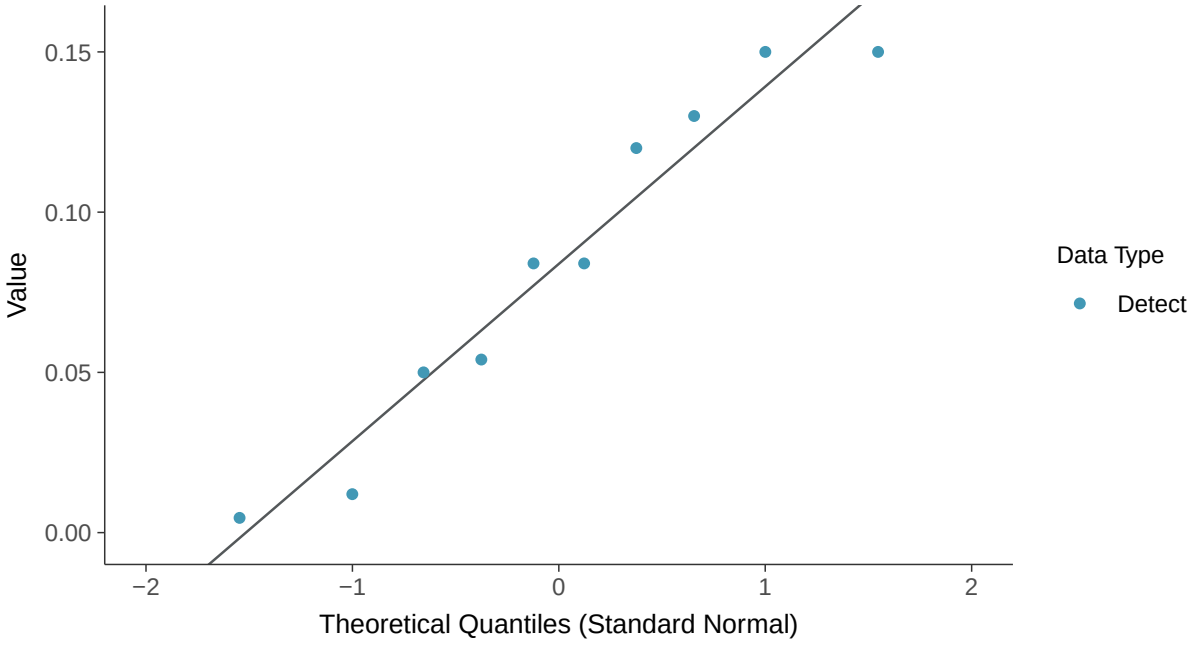
Boxplot by Season

Lithium, MW-28 (mg/L)



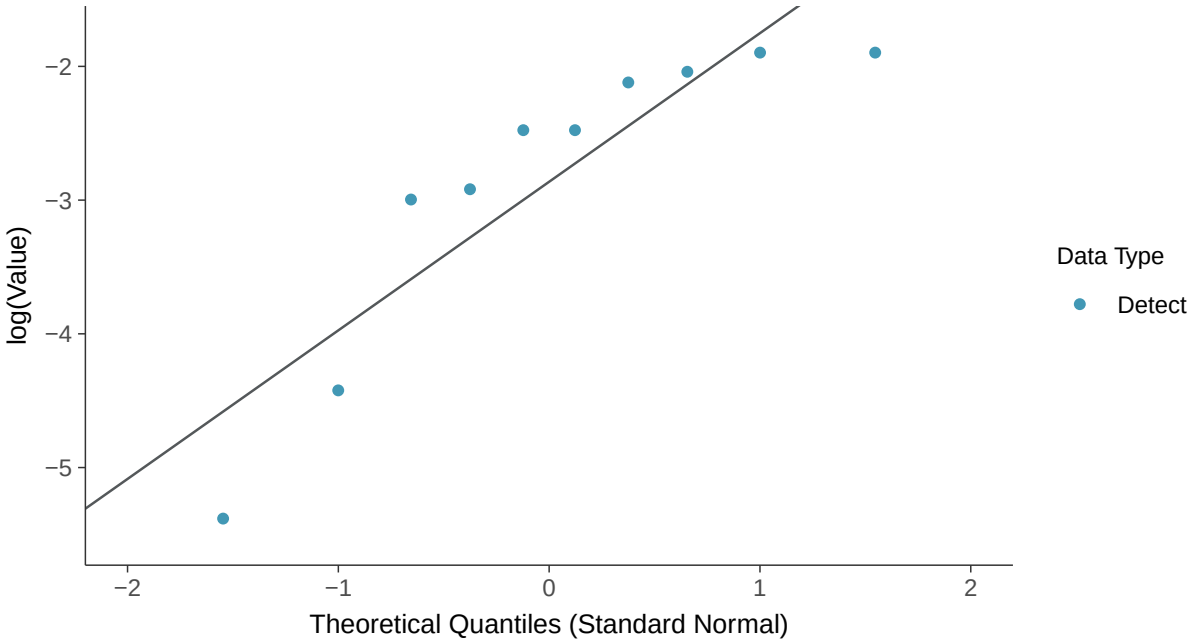
Normal Q-Q plot

Lithium, MW-28 (mg/L)



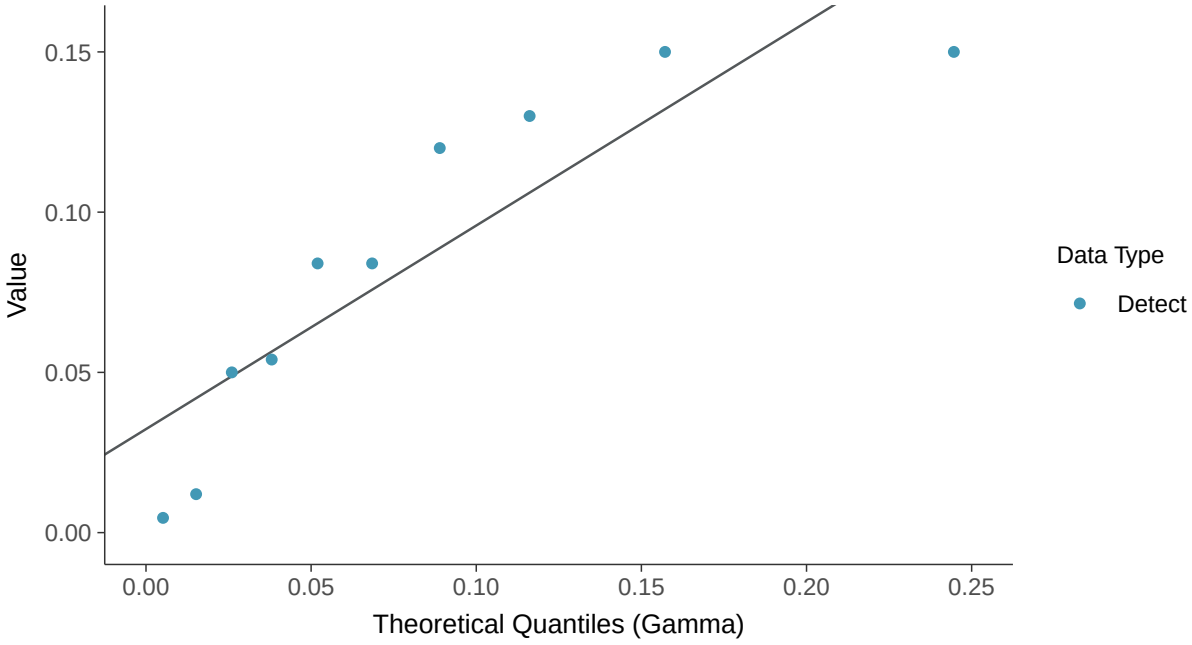
Lognormal Q-Q plot

Lithium, MW-28 (mg/L)



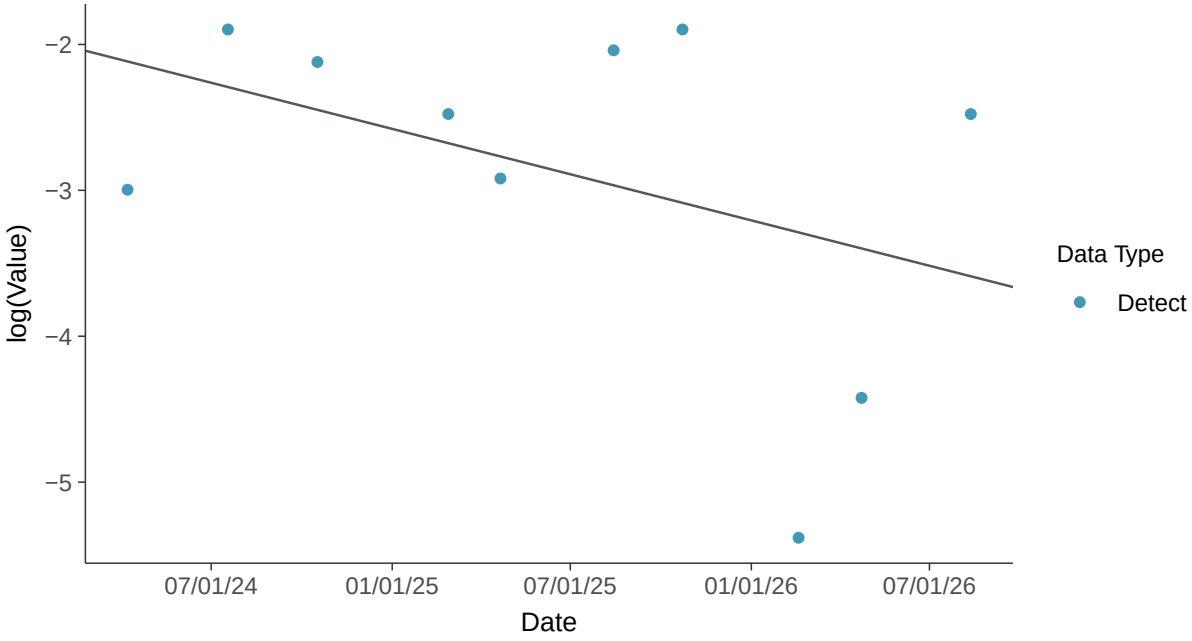
Gamma Q-Q plot

Lithium, MW-28 (mg/L)



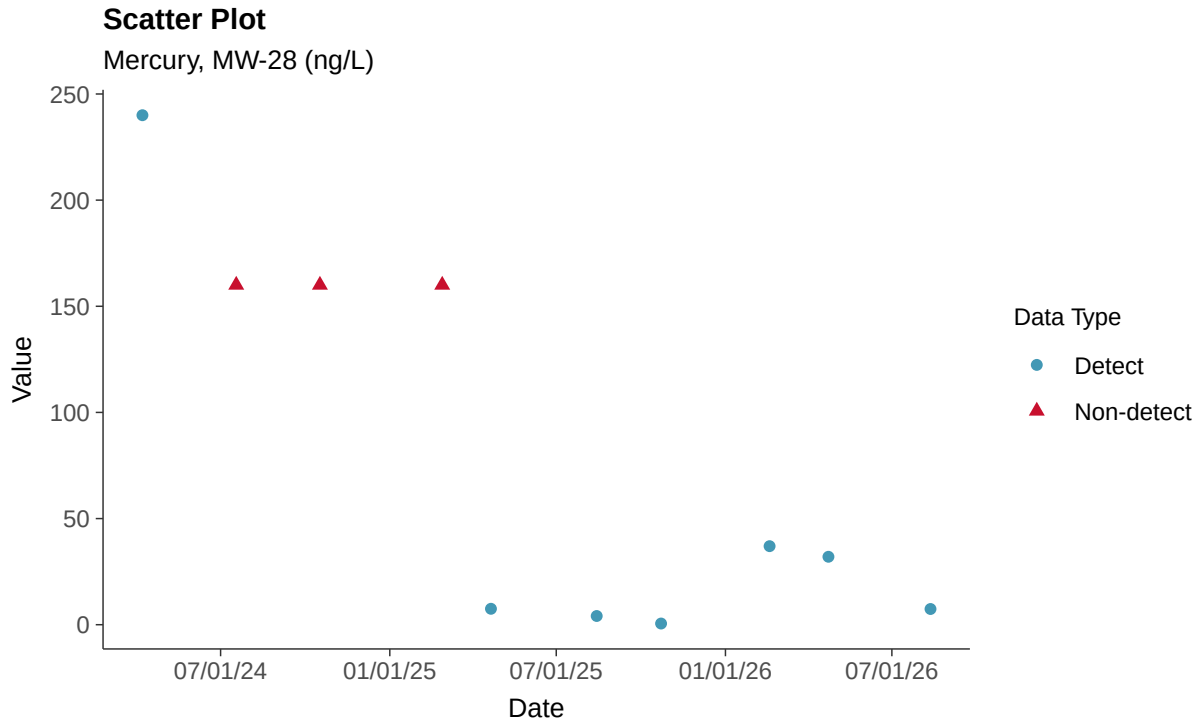
Trend Regression: Lognormal MLE

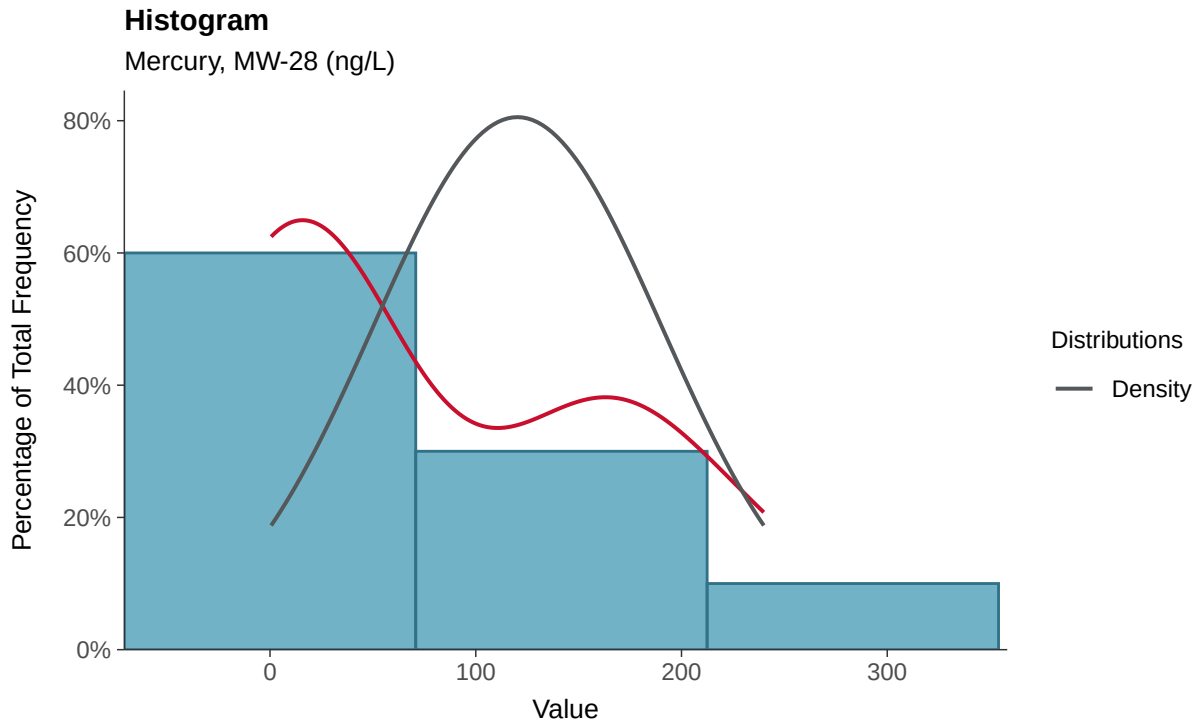
Lithium, MW-28 (mg/L)



Appendix IV: Mercury, MW-28

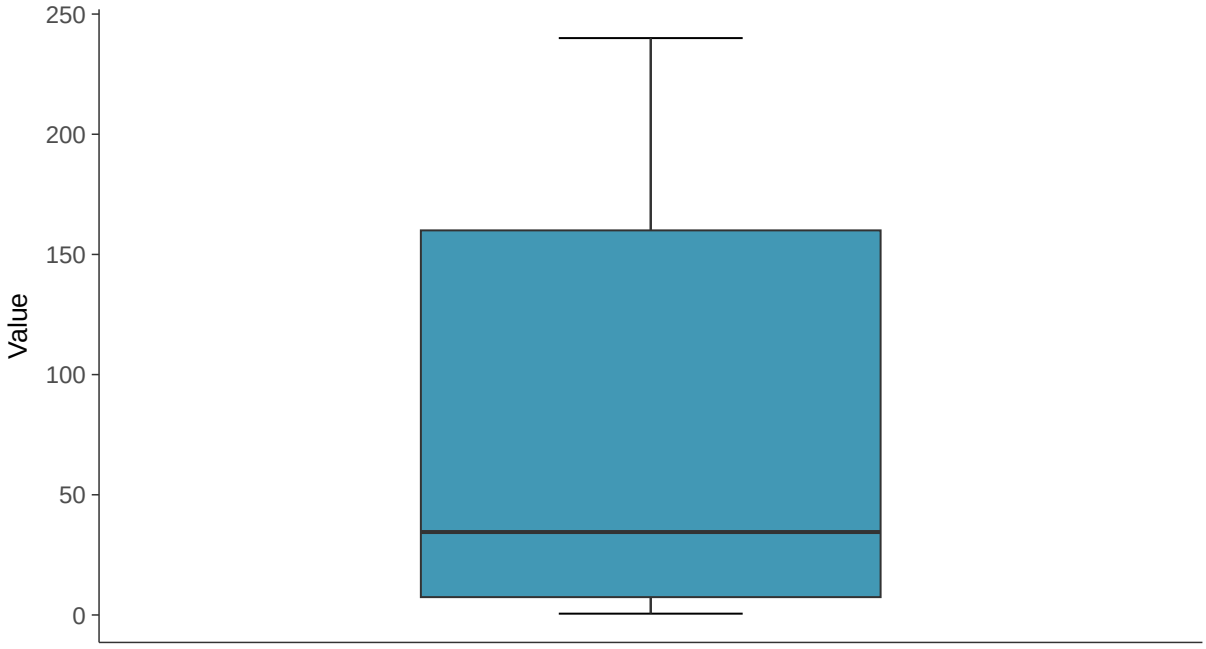
ID: 38_1_4_117





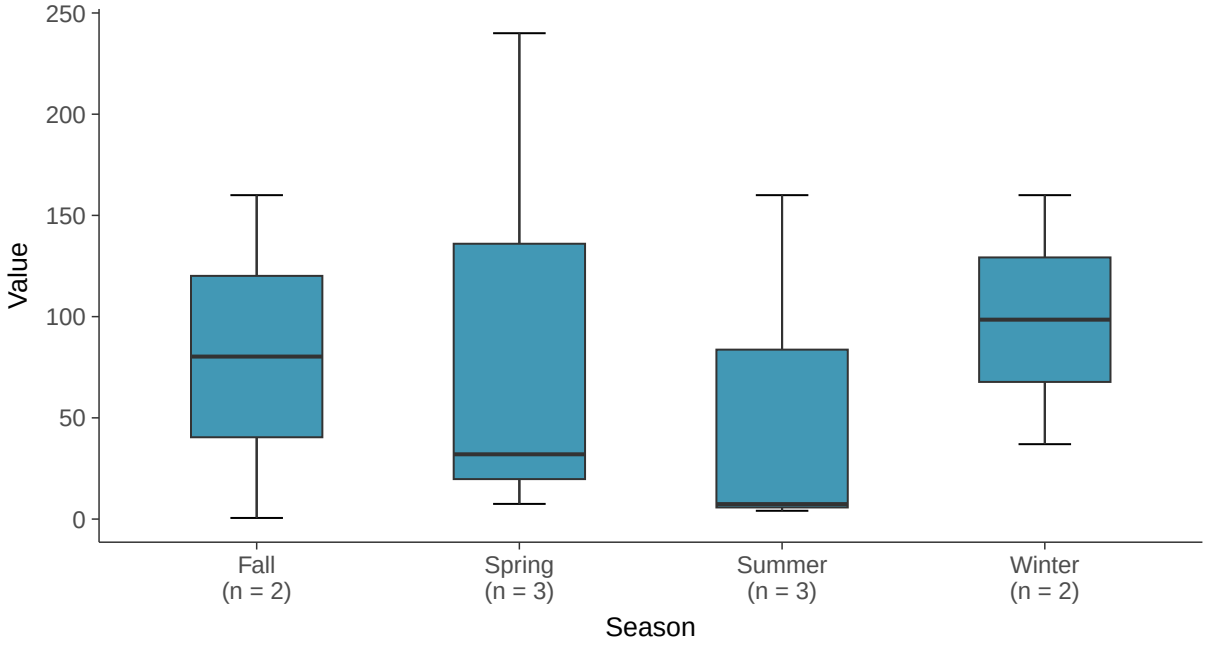
Boxplot

Mercury, MW-28 (ng/L)



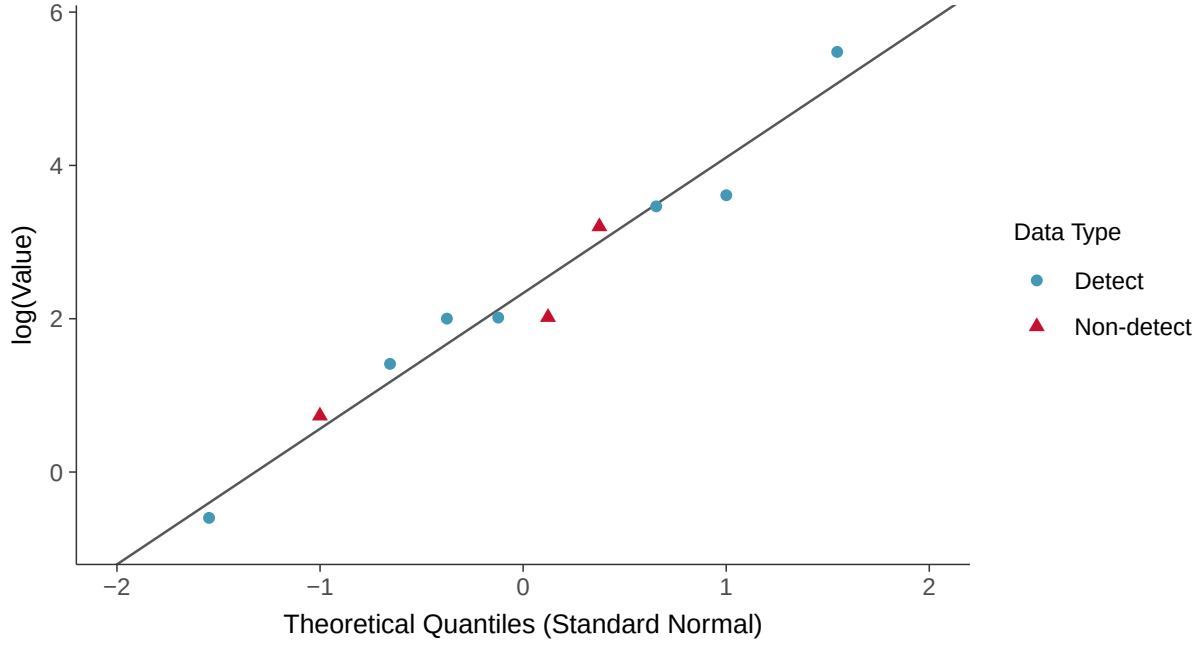
Boxplot by Season

Mercury, MW-28 (ng/L)



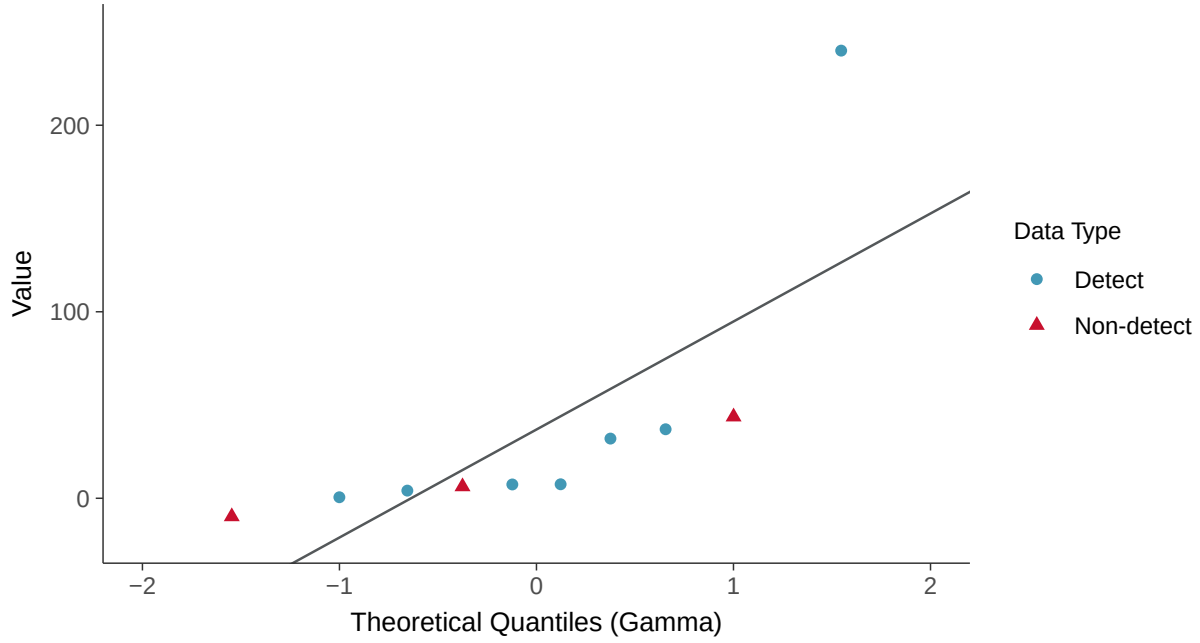
Lognormal Q-Q plot using ROS Imputed Estimates

Mercury, MW-28 (ng/L)



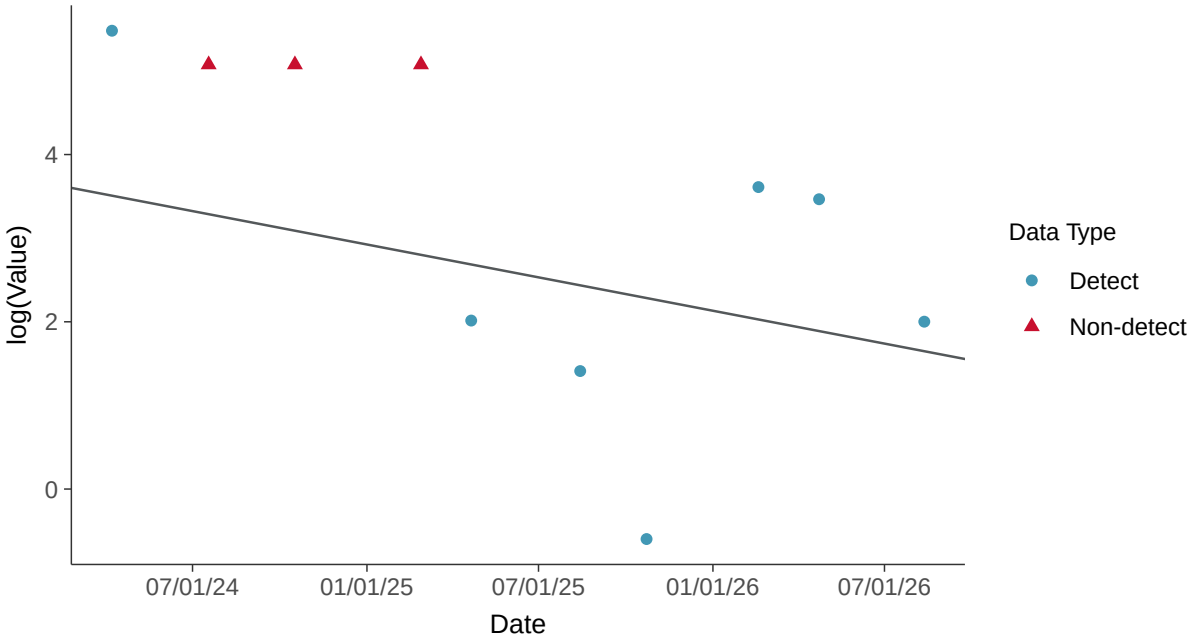
Gamma Q-Q plot using ROS Imputed Estimates

Mercury, MW-28 (ng/L)



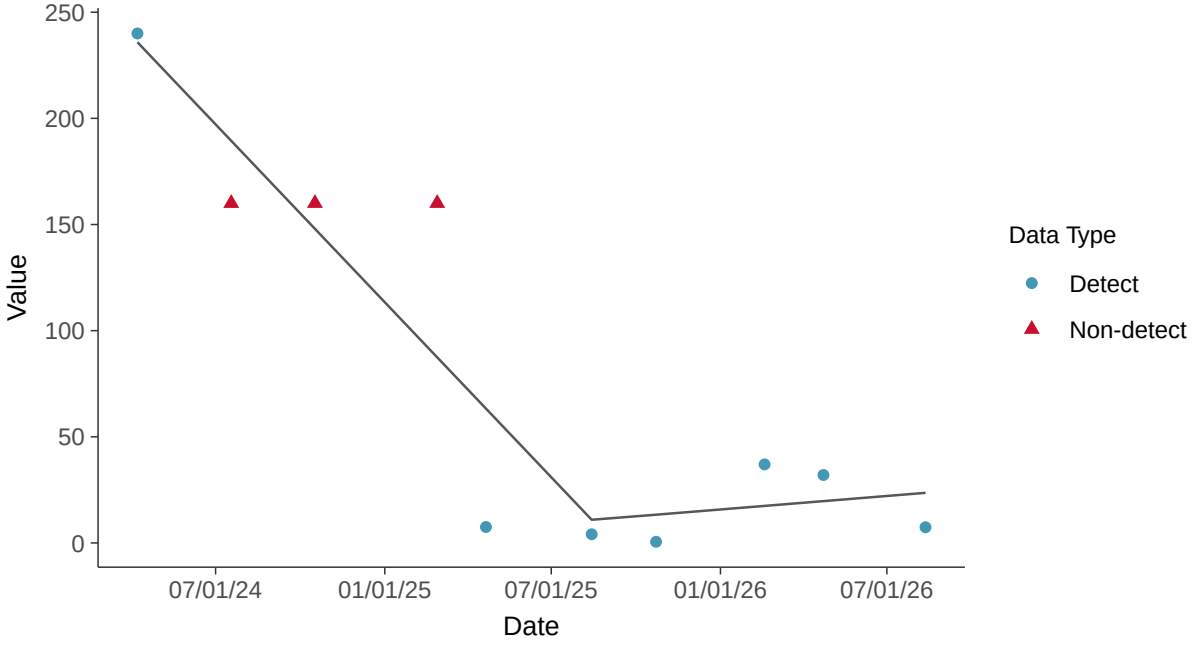
Trend Regression: Lognormal MLE

Mercury, MW-28 (ng/L)



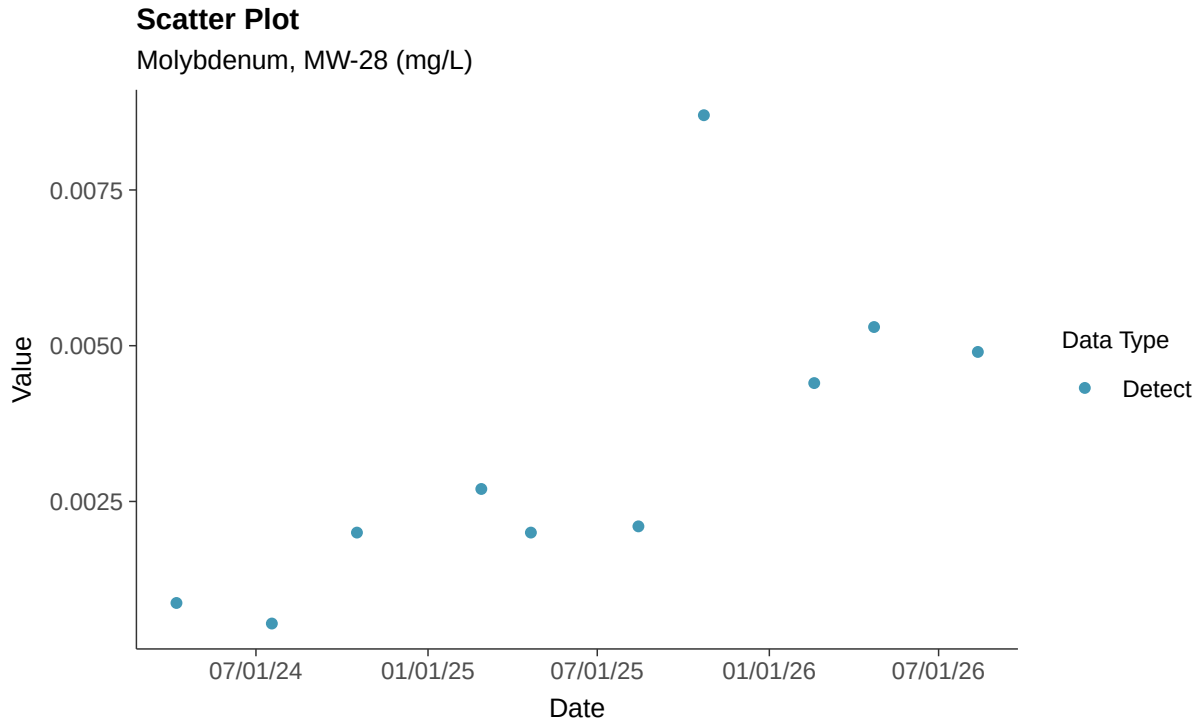
Trend Regression: Piecewise Linear-Linear

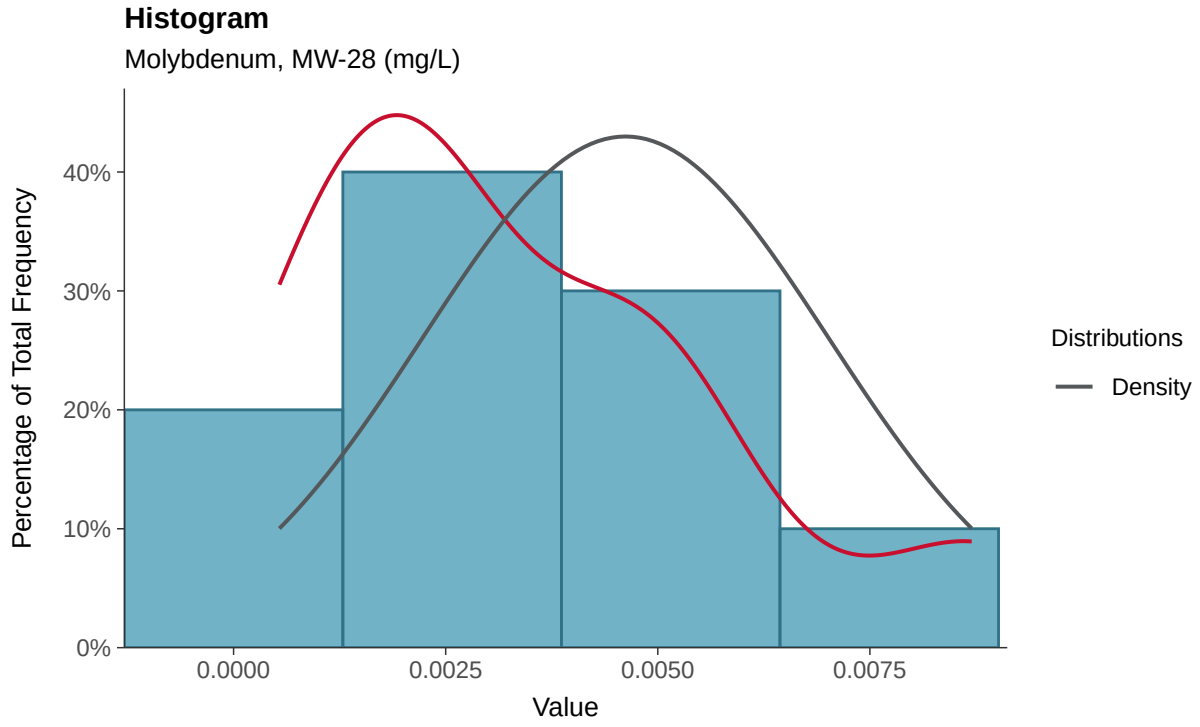
Mercury, MW-28 (ng/L)



Appendix IV: Molybdenum, MW-28

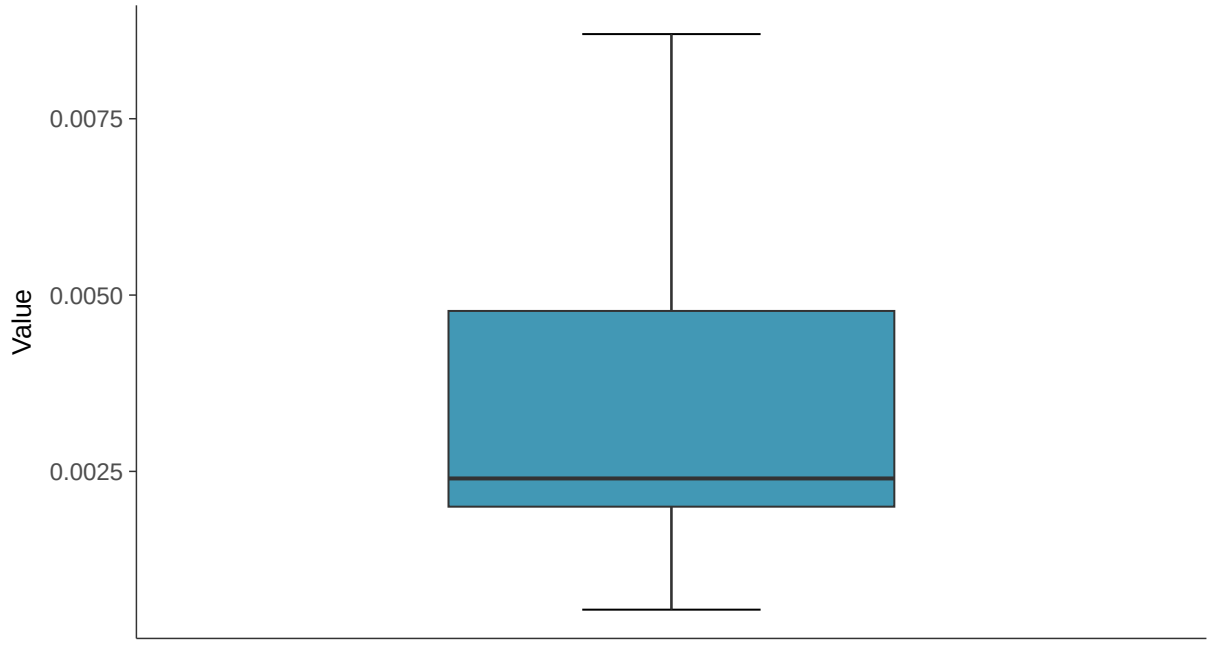
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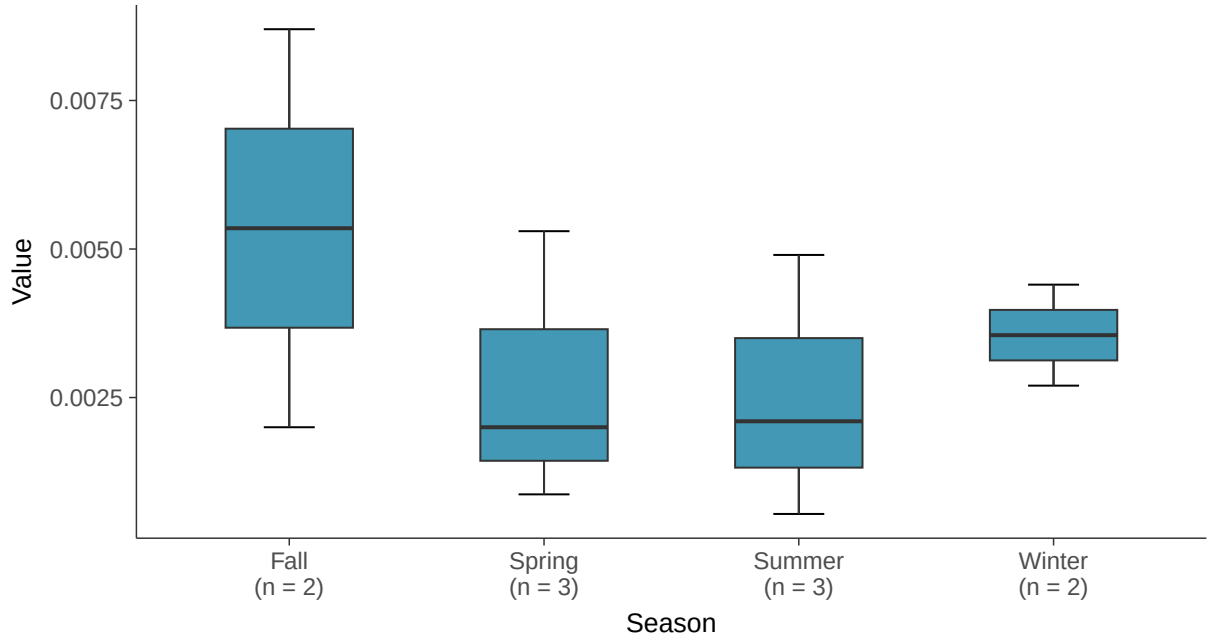
Boxplot

Molybdenum, MW-28 (mg/L)



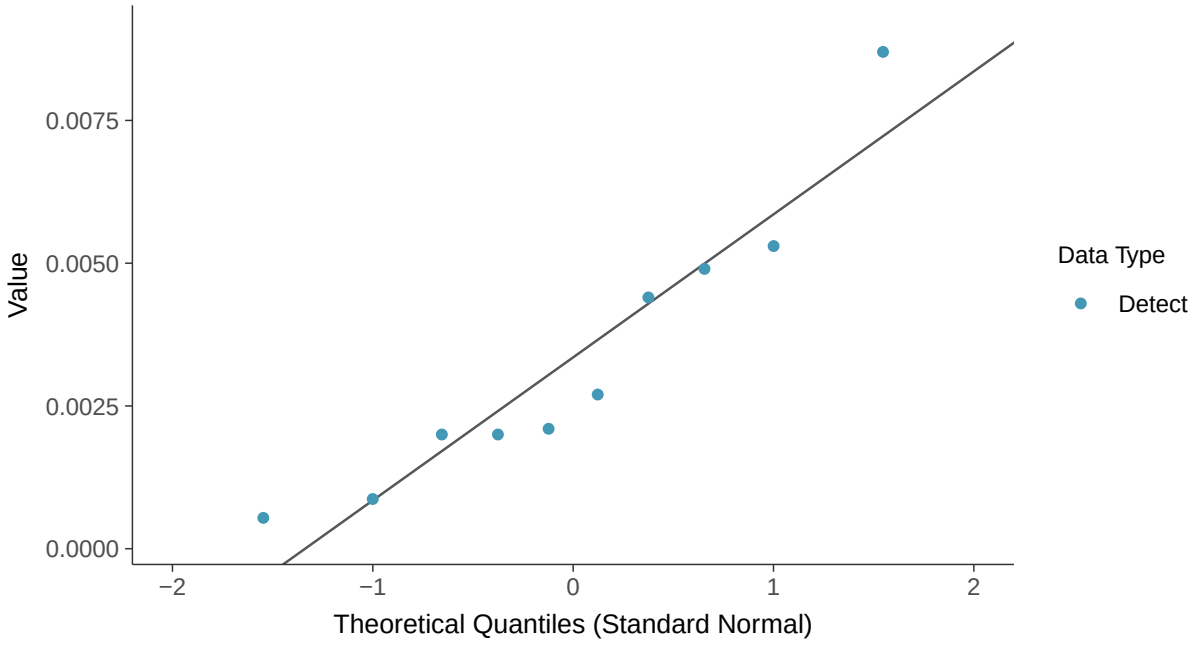
Boxplot by Season

Molybdenum, MW-28 (mg/L)



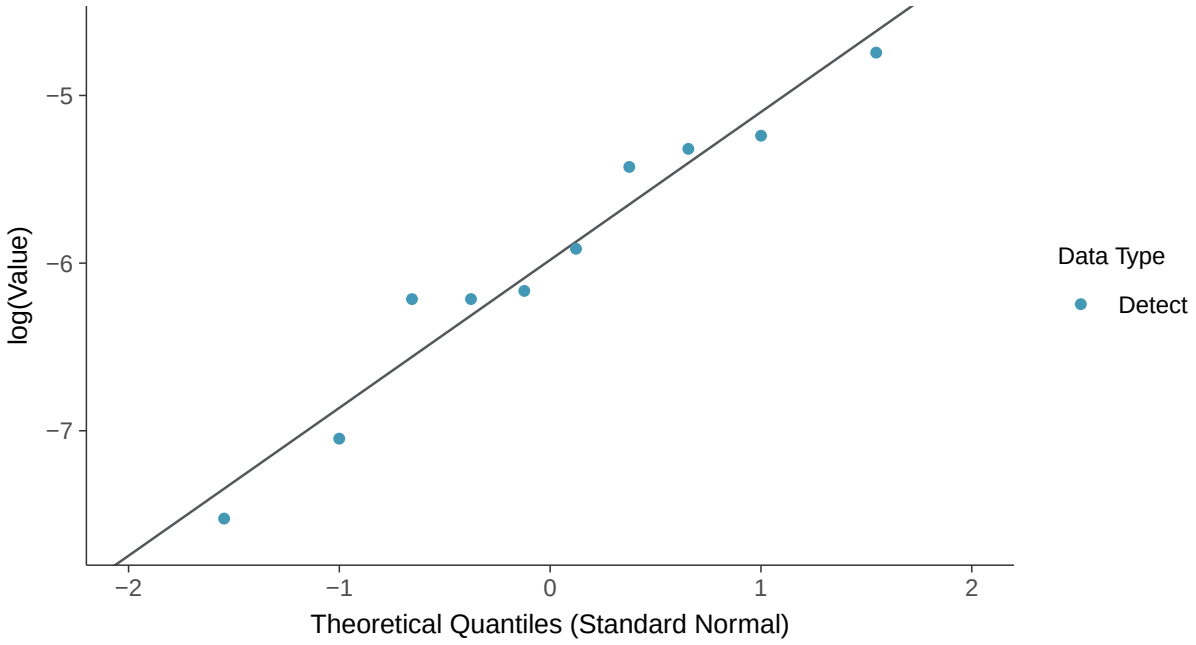
Normal Q-Q plot

Molybdenum, MW-28 (mg/L)



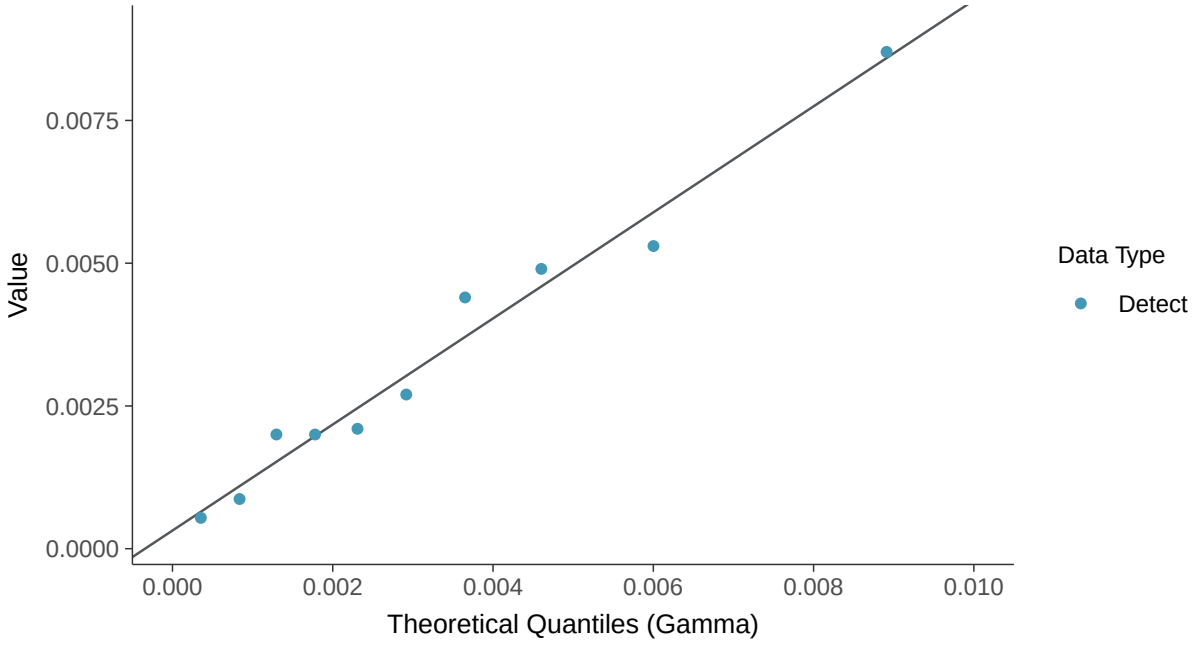
Lognormal Q-Q plot

Molybdenum, MW-28 (mg/L)



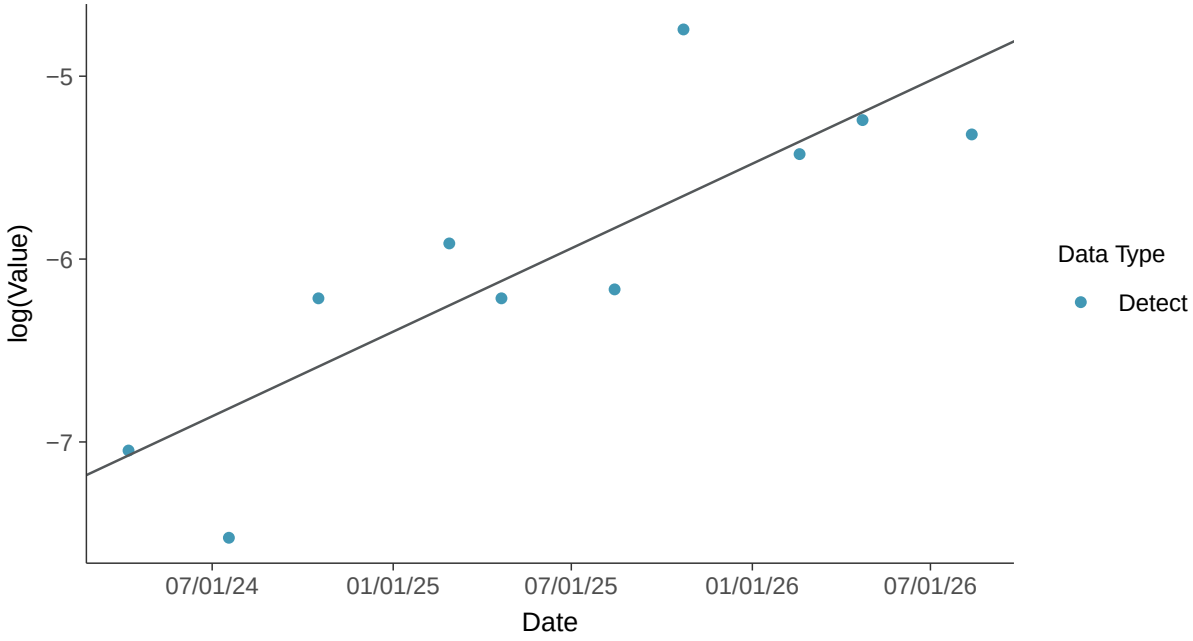
Gamma Q-Q plot

Molybdenum, MW-28 (mg/L)



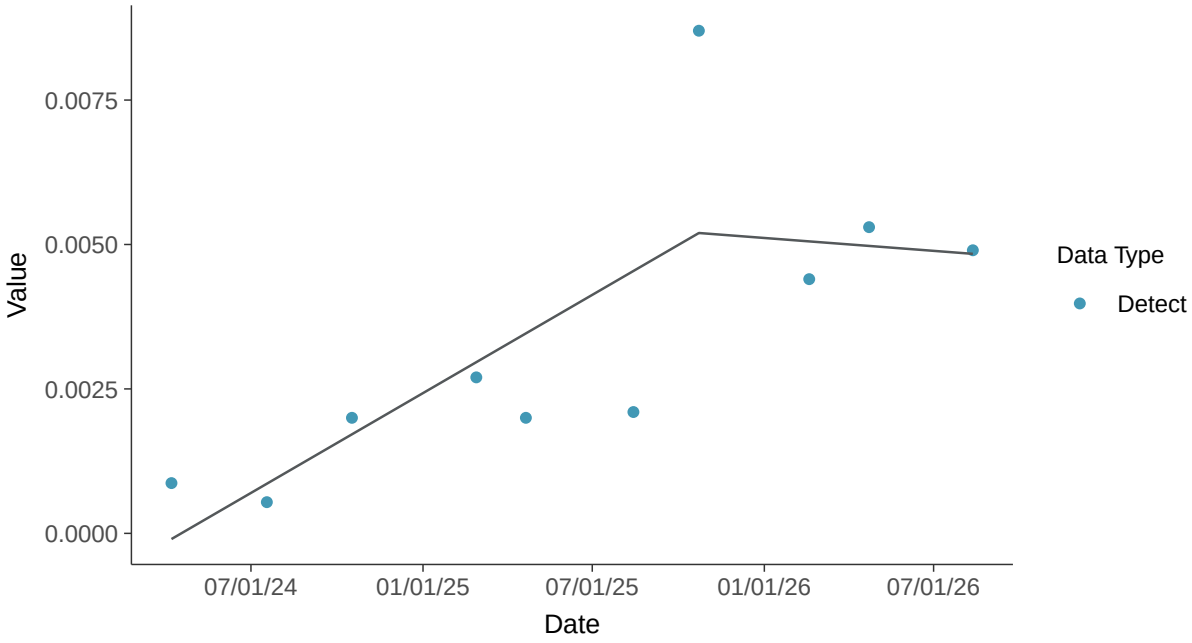
Trend Regression: Lognormal MLE

Molybdenum, MW-28 (mg/L)



Trend Regression: Piecewise Linear-Linear

Molybdenum, MW-28 (mg/L)

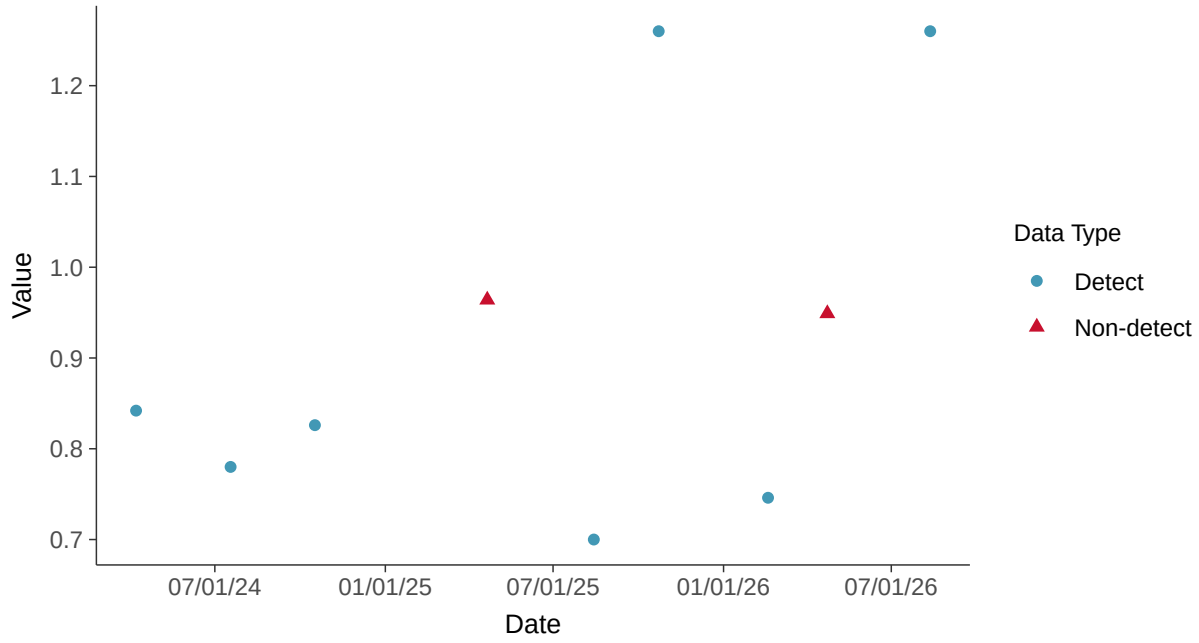


Appendix IV: Radium 226 and 228, MW-28

ID: 38_1_4_121

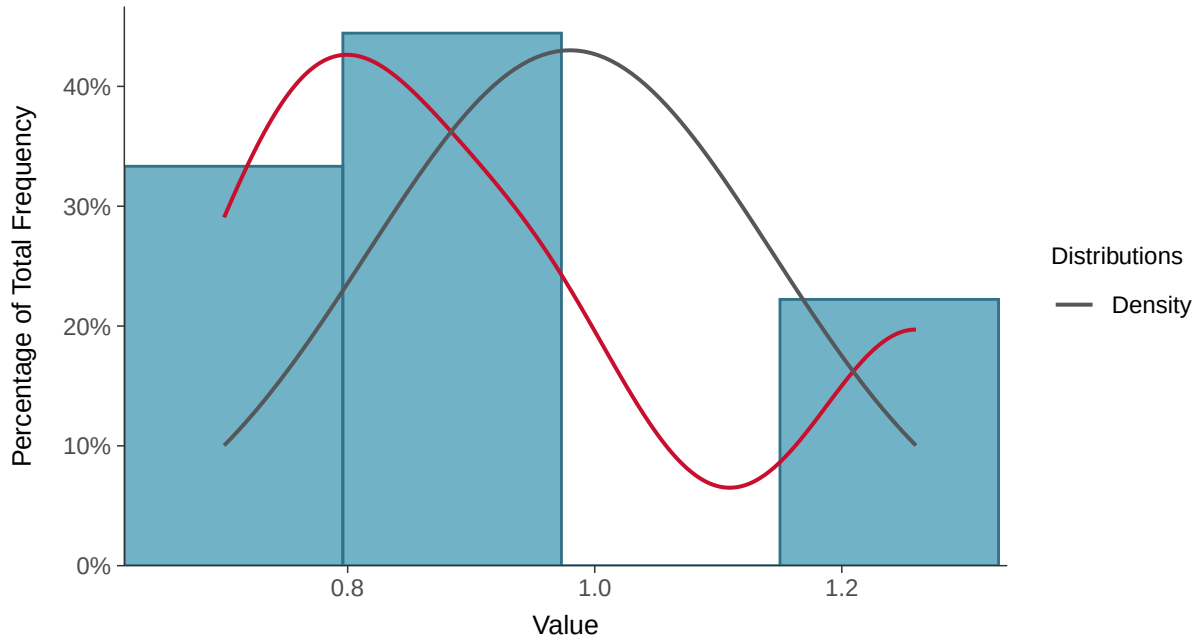
Scatter Plot

Radium 226 and 228, MW-28 (pCi/L)



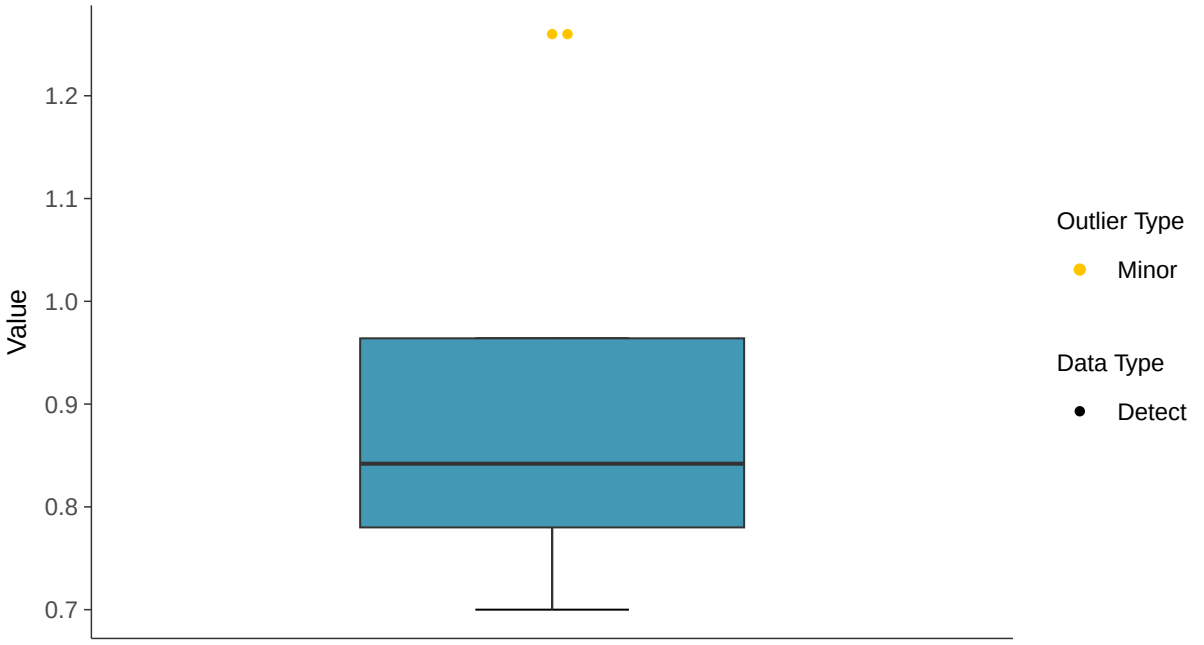
Histogram

Radium 226 and 228, MW-28 (pCi/L)



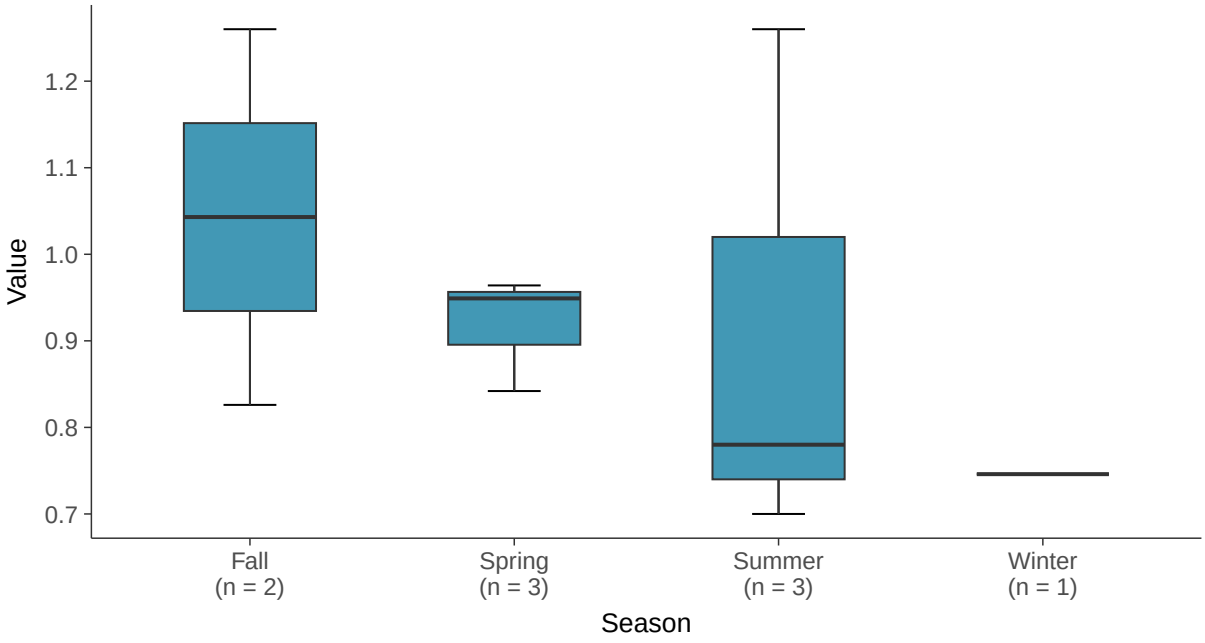
Boxplot

Radium 226 and 228, MW-28 (pCi/L)



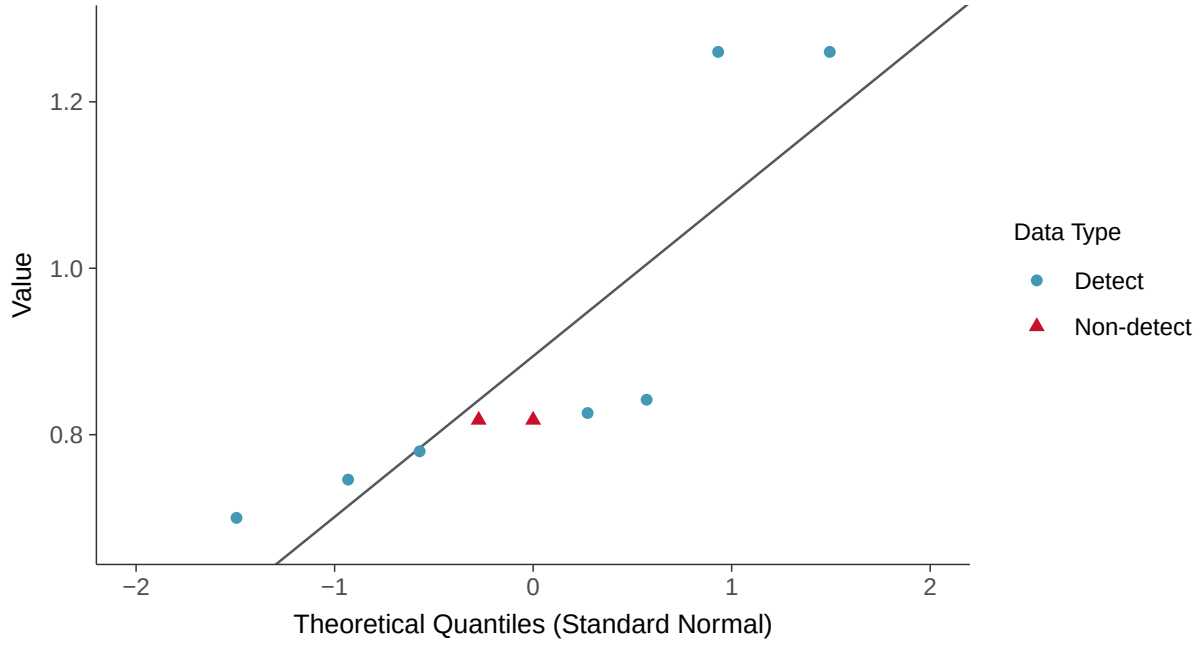
Boxplot by Season

Radium 226 and 228, MW-28 (pCi/L)



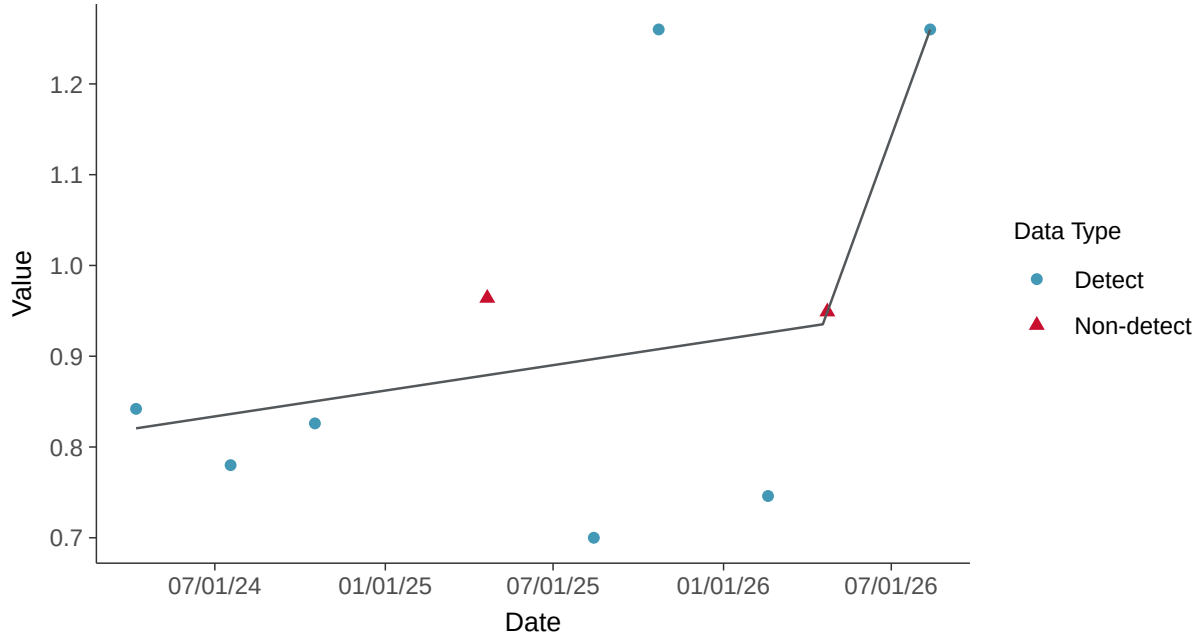
Normal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-28 (pCi/L)



Trend Regression: Piecewise Linear-Linear

Radium 226 and 228, MW-28 (pCi/L)

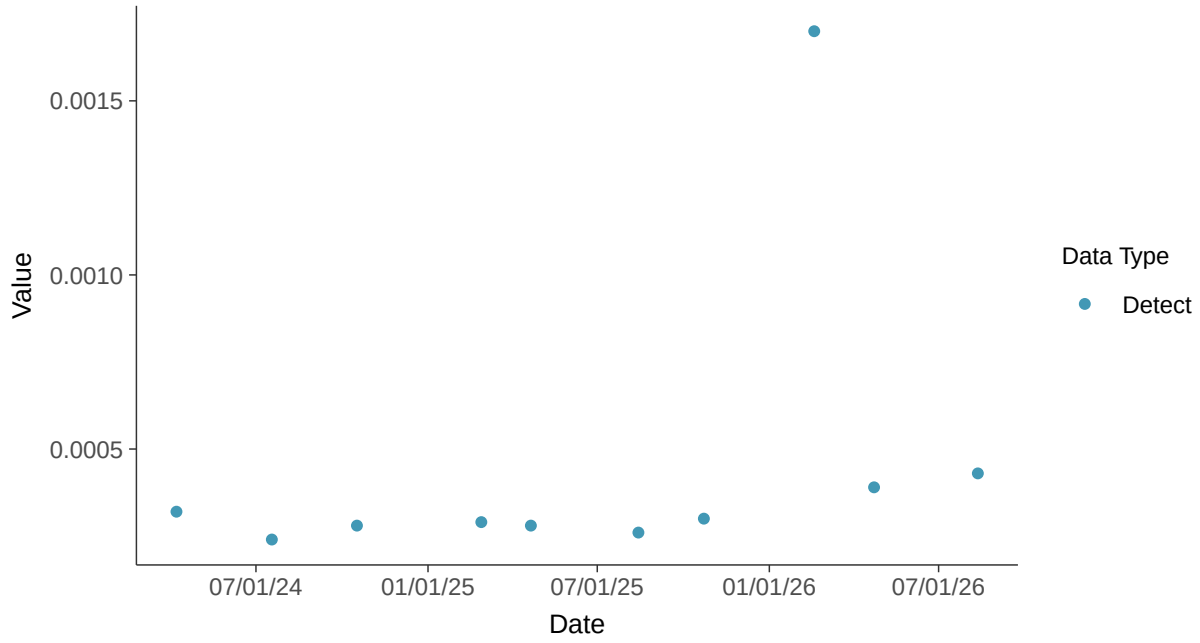


Appendix IV: Selenium, MW-28

ID: 38_1_4_122

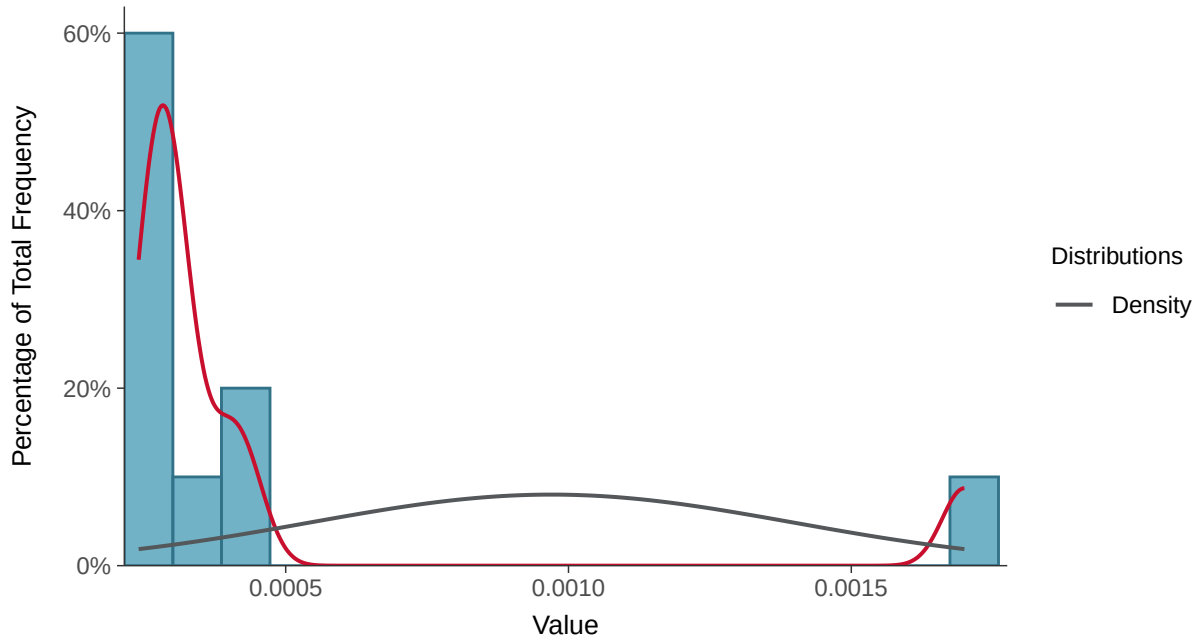
Scatter Plot

Selenium, MW-28 (mg/L)



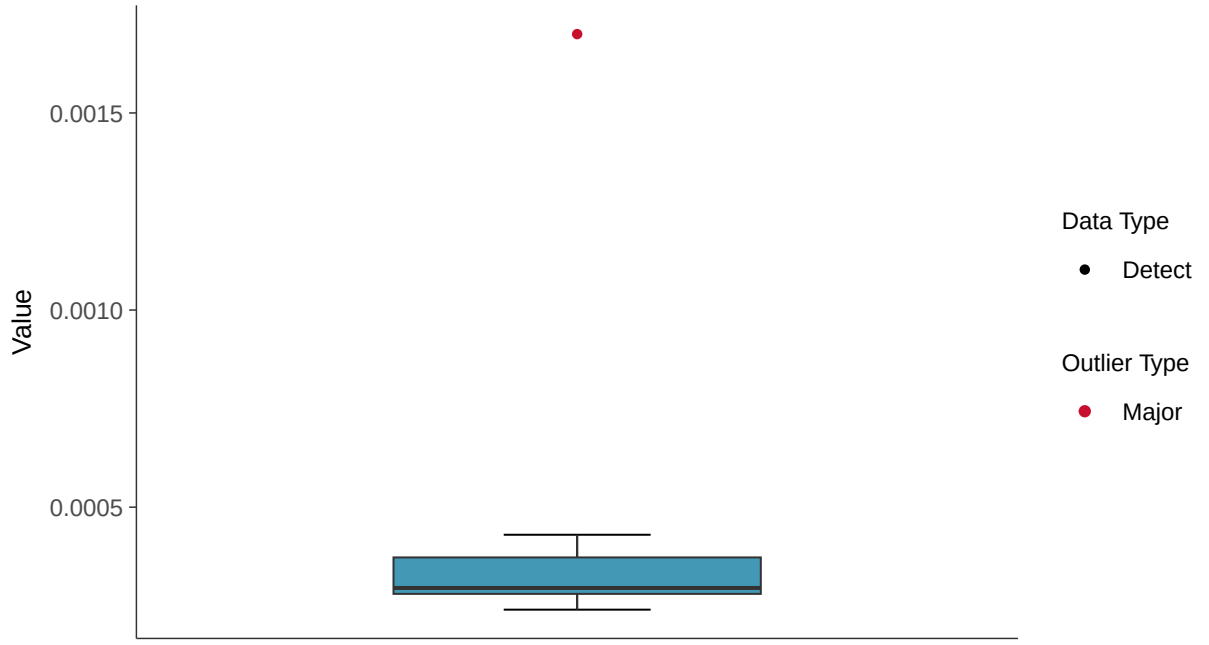
Histogram

Selenium, MW-28 (mg/L)



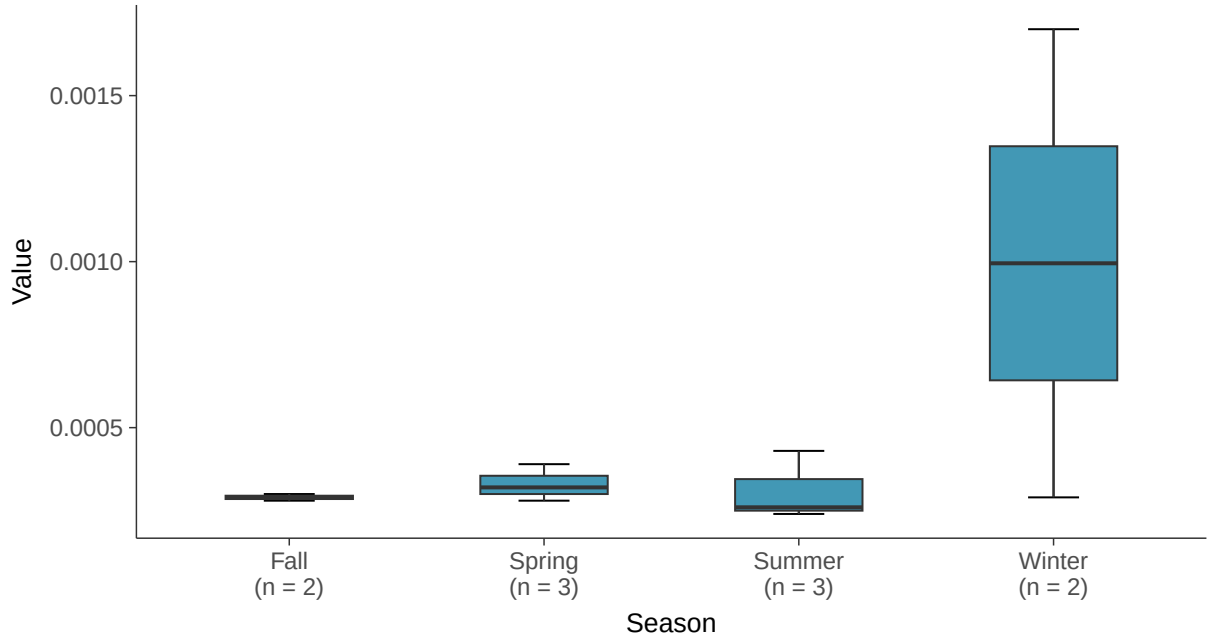
Boxplot

Selenium, MW-28 (mg/L)



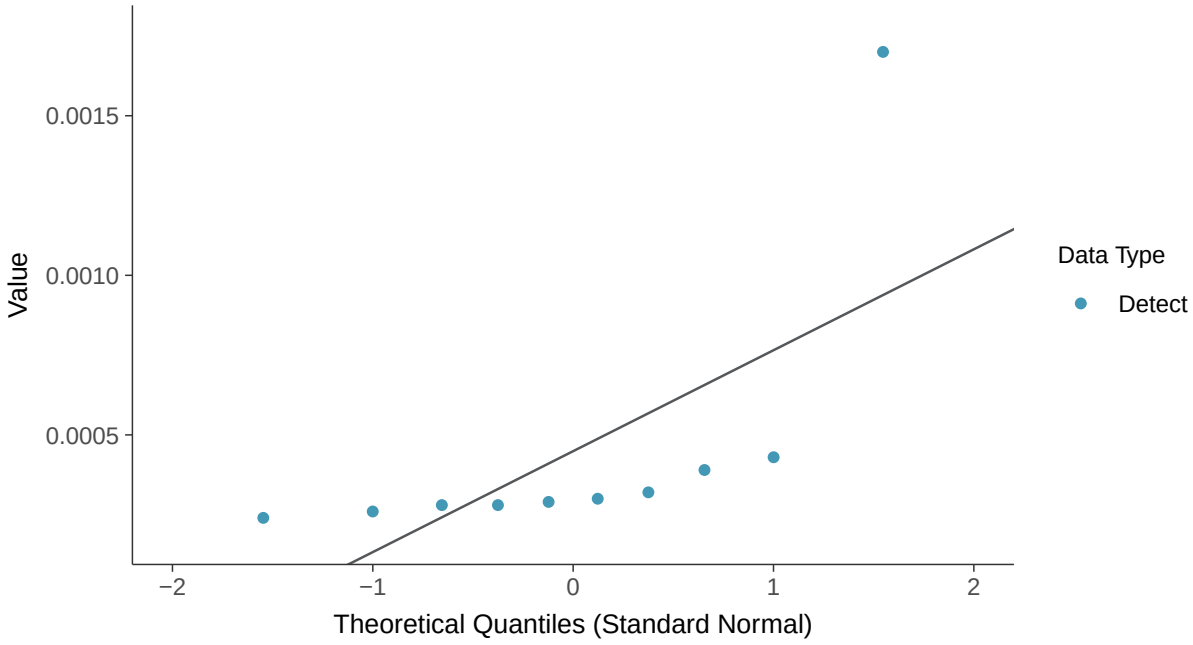
Boxplot by Season

Selenium, MW-28 (mg/L)



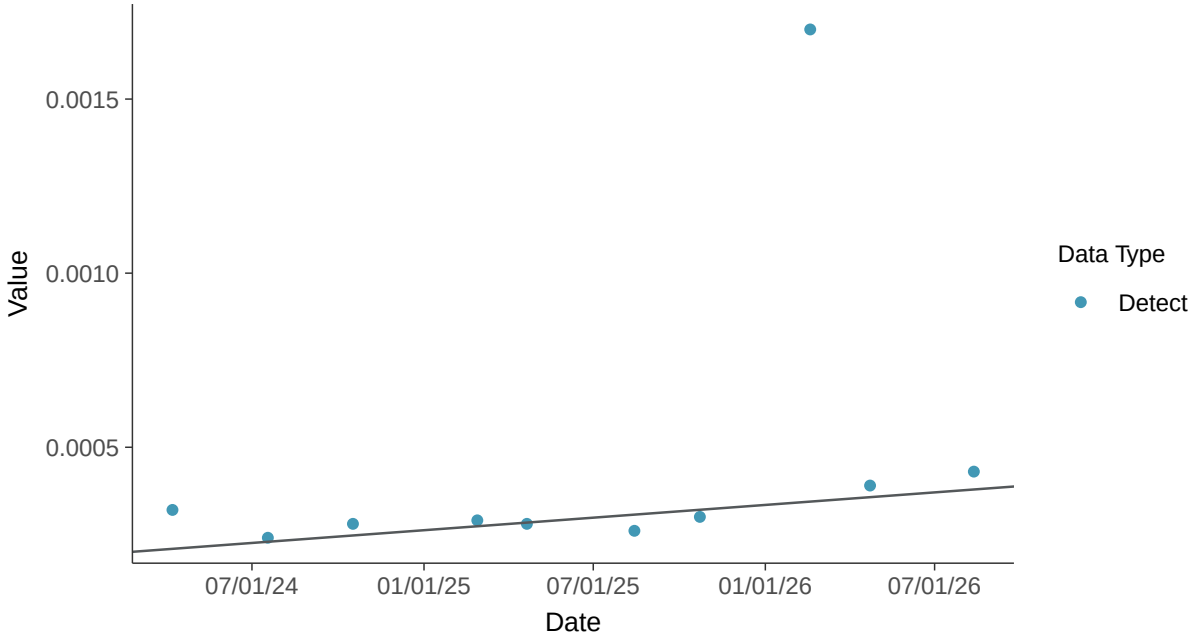
Normal Q-Q plot

Selenium, MW-28 (mg/L)



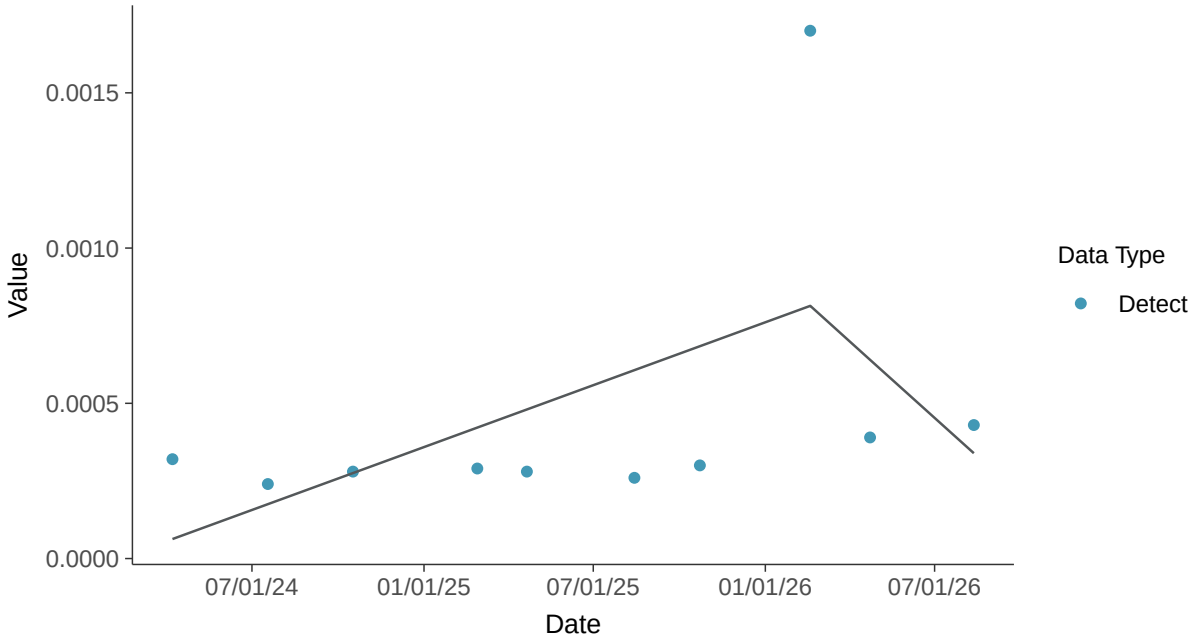
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Selenium, MW-28 (mg/L)



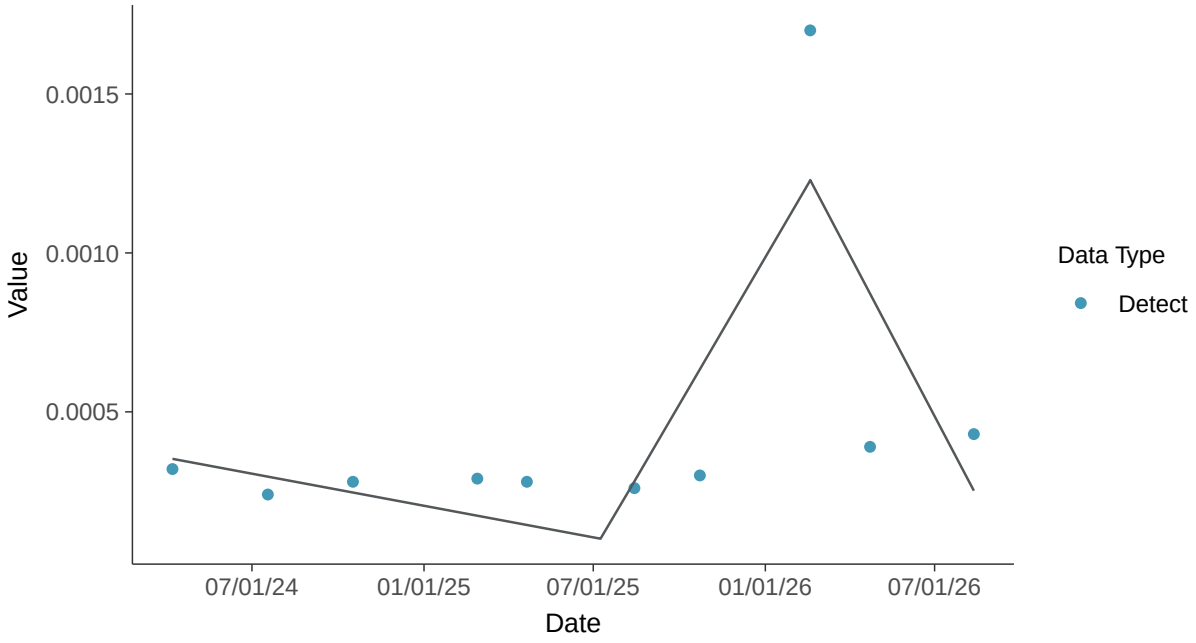
Trend Regression: Piecewise Linear-Linear

Selenium, MW-28 (mg/L)



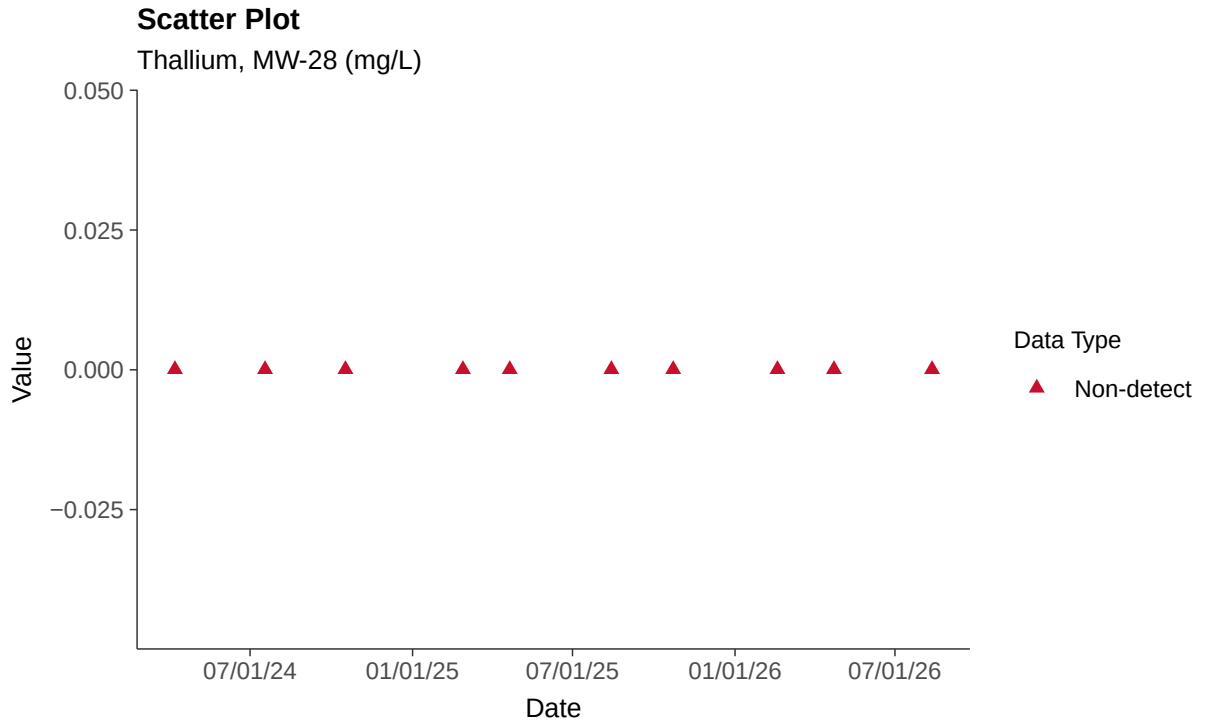
Trend Regression: Piecewise Linear-Linear-Linear

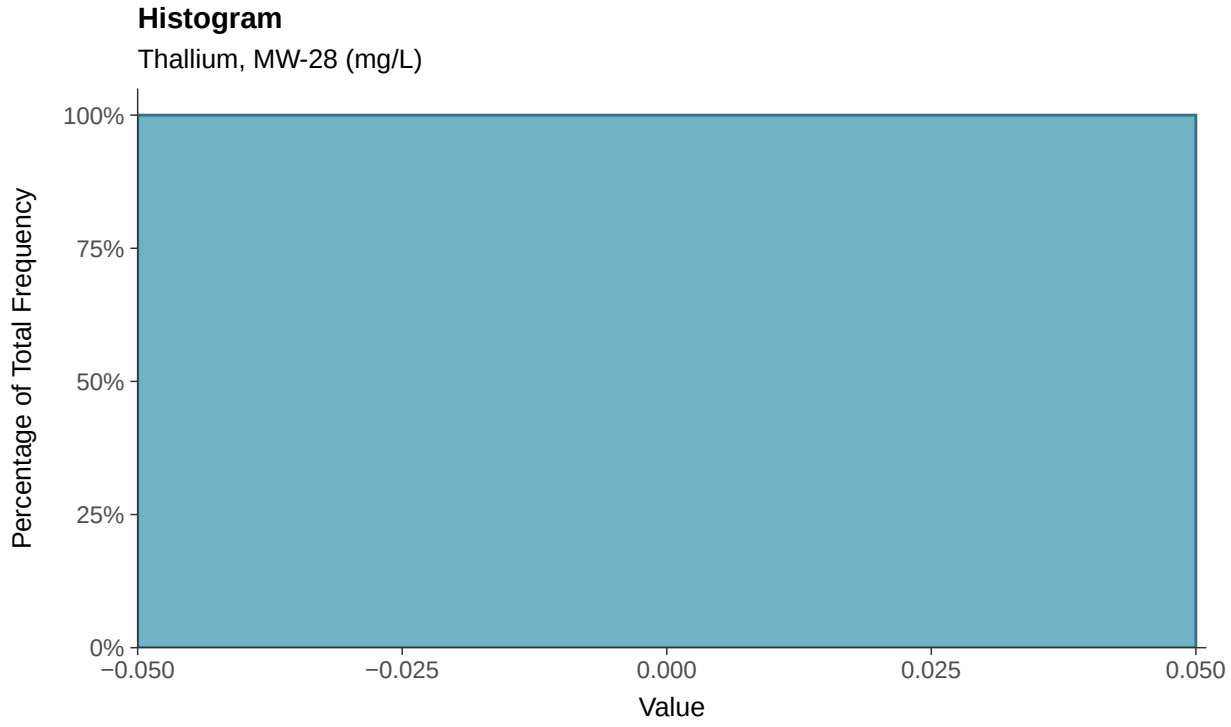
Selenium, MW-28 (mg/L)



Appendix IV: Thallium, MW-28

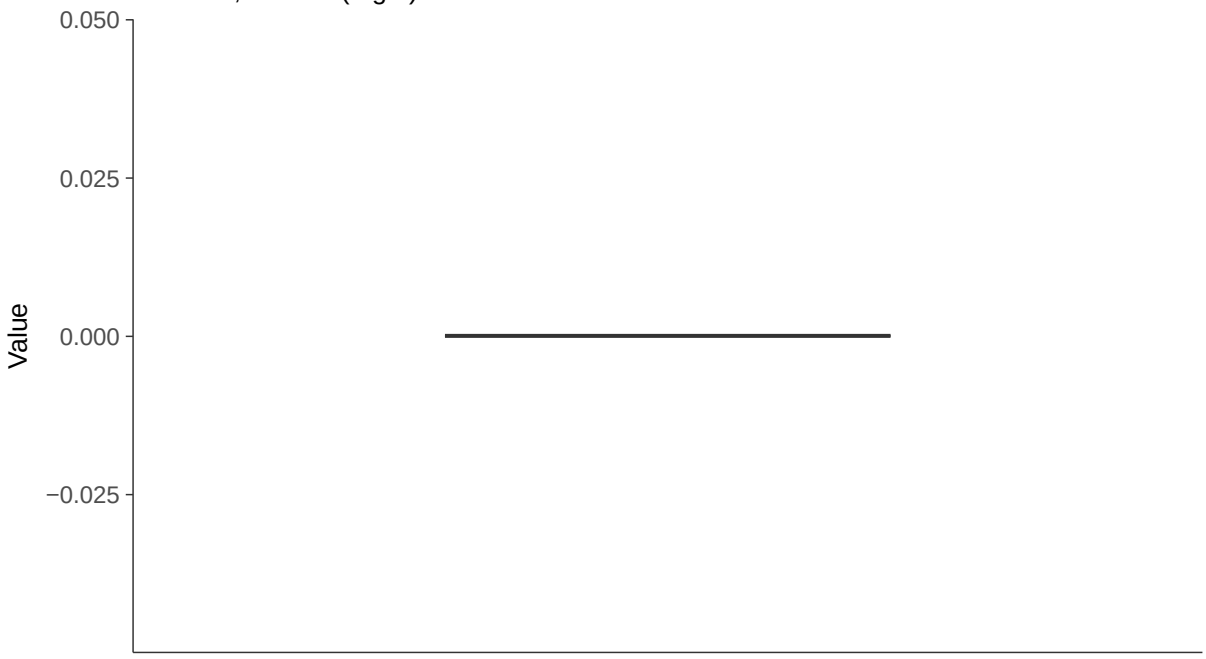
ID: 38_1_4_125





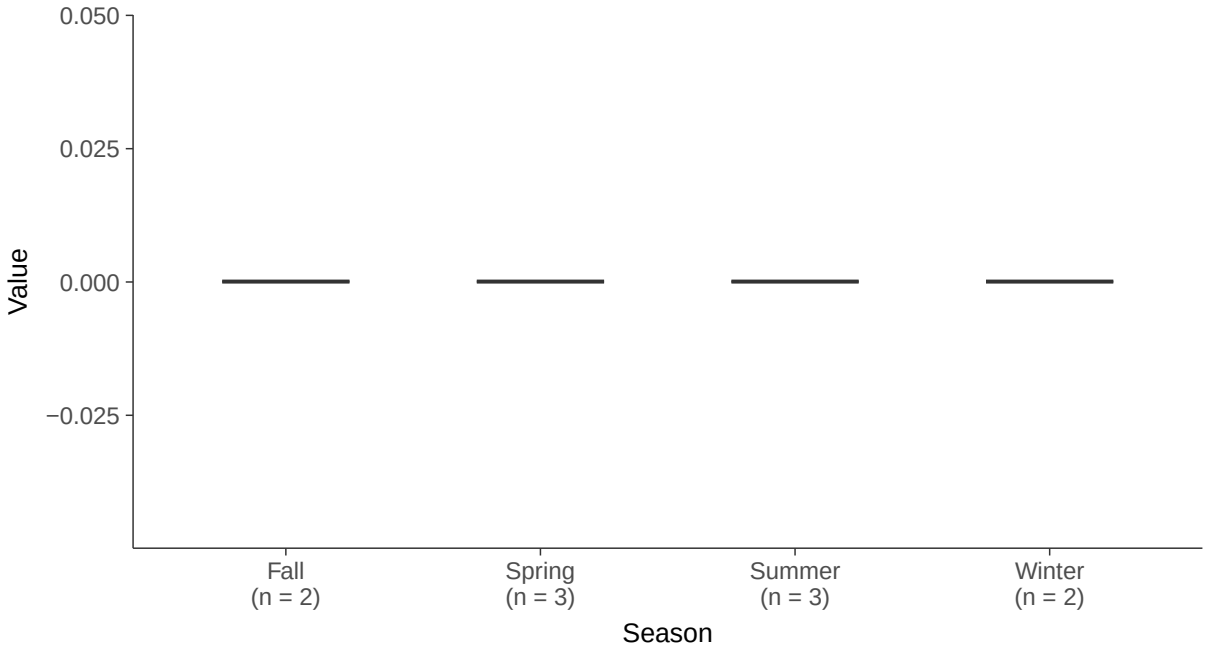
Boxplot

Thallium, MW-28 (mg/L)



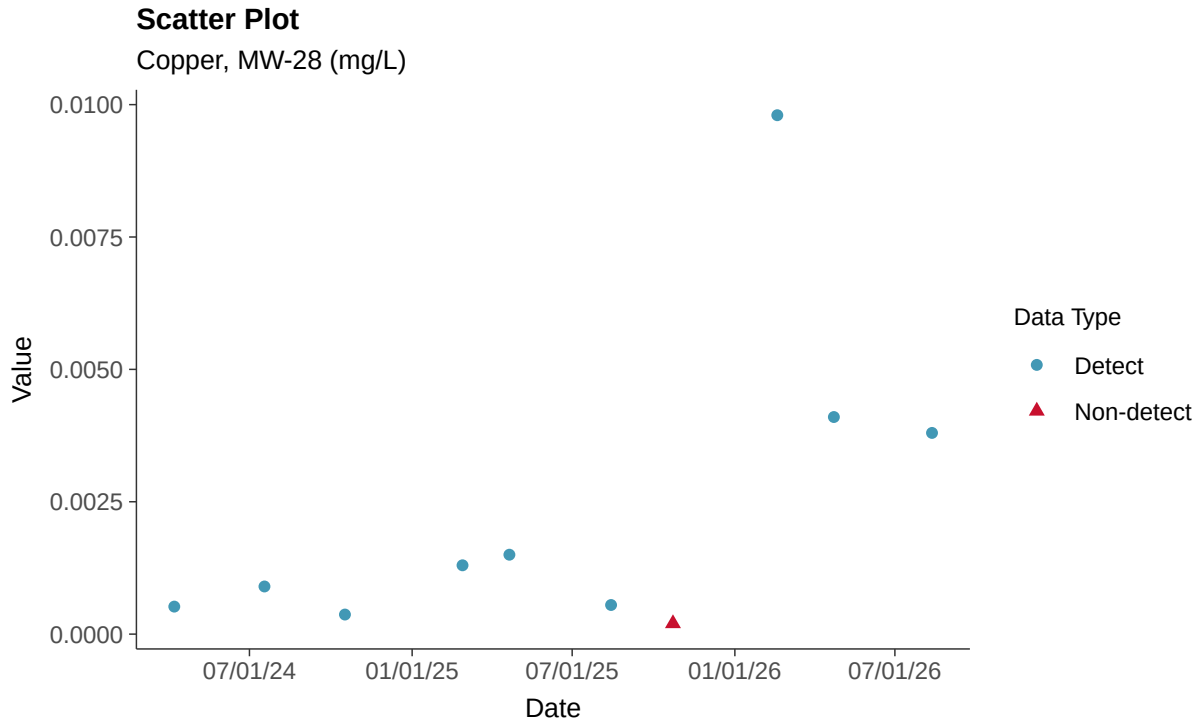
Boxplot by Season

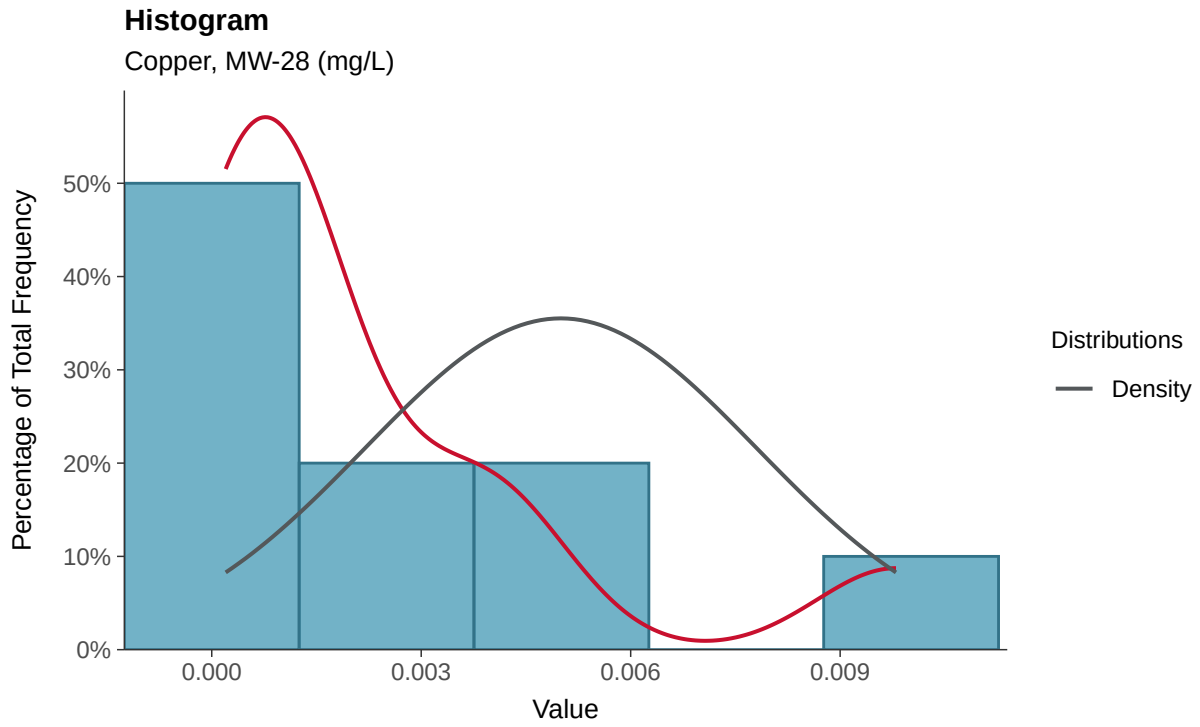
Thallium, MW-28 (mg/L)



Part 115: Copper, MW-28

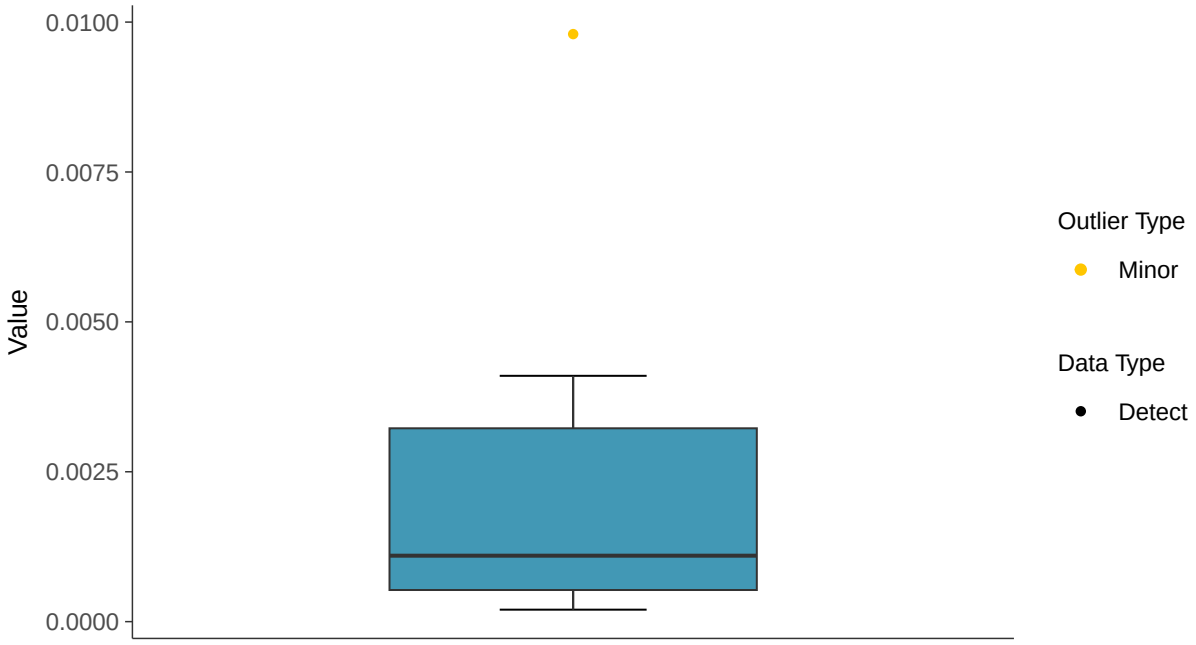
ID: 38_1_5_111





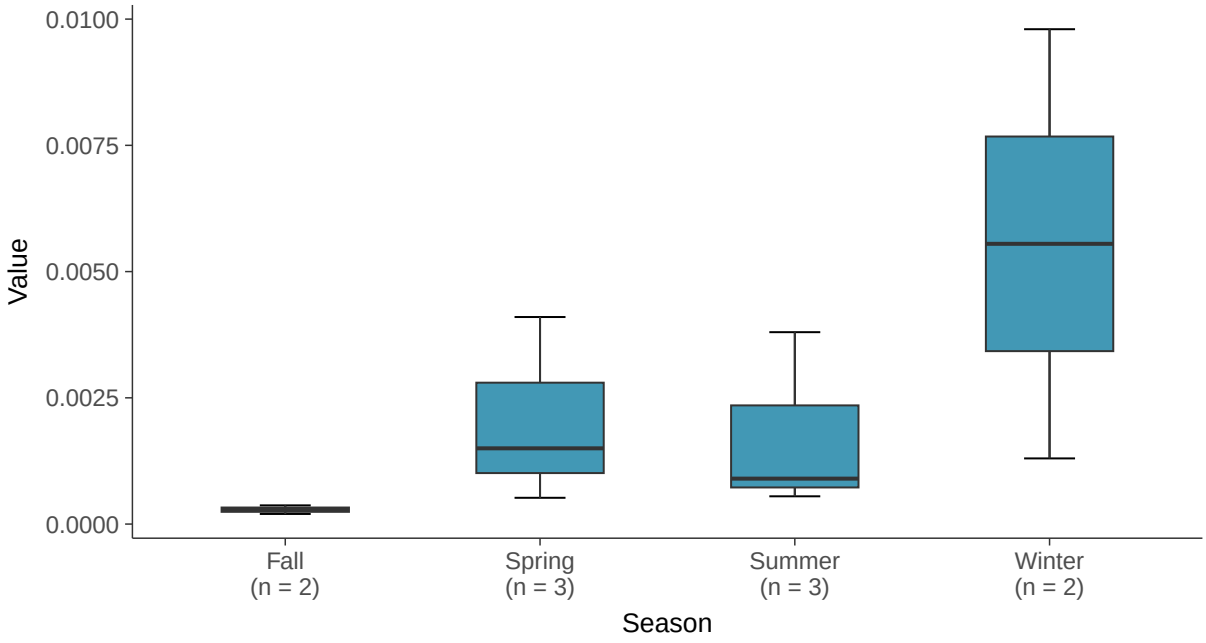
Boxplot

Copper, MW-28 (mg/L)



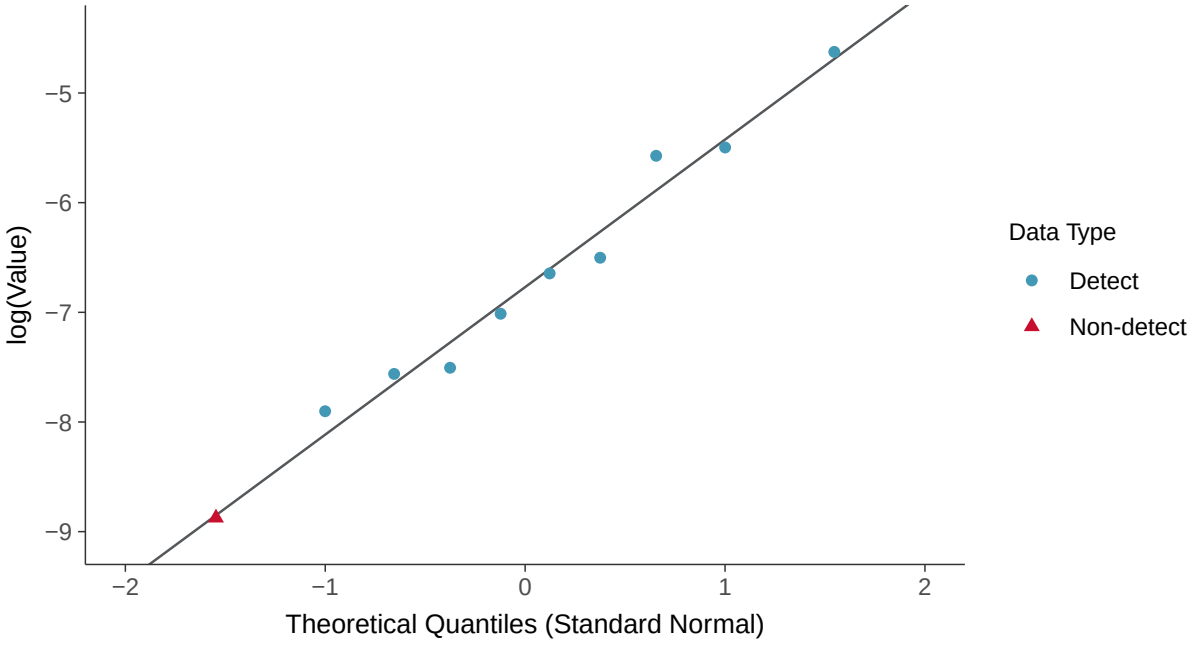
Boxplot by Season

Copper, MW-28 (mg/L)



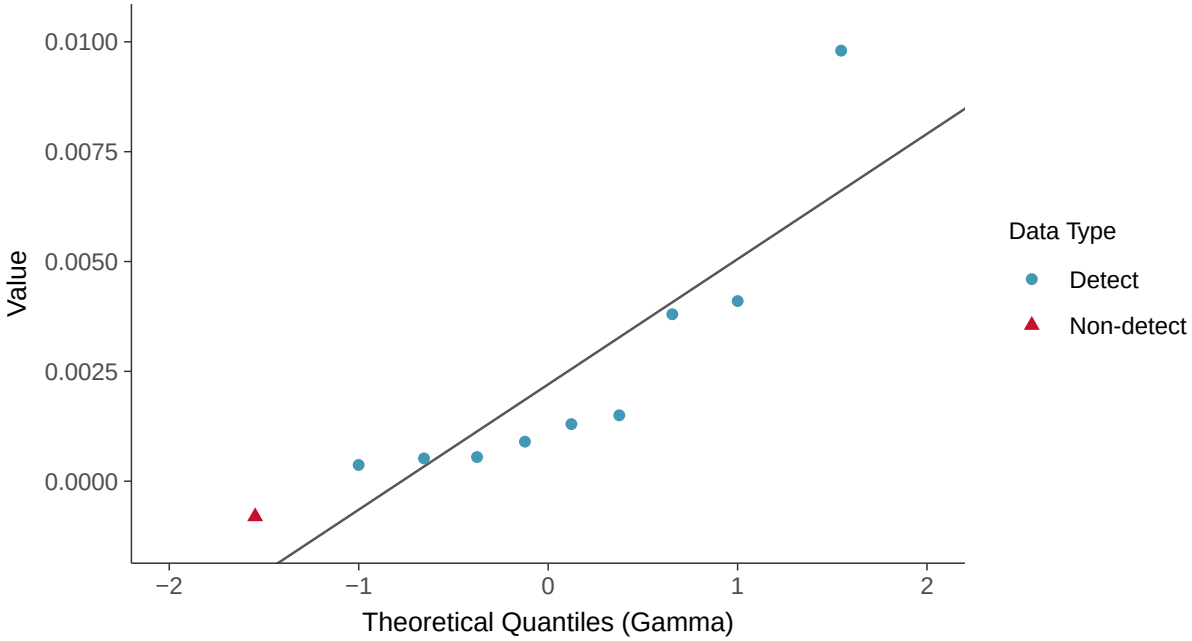
Lognormal Q-Q plot using ROS Imputed Estimates

Copper, MW-28 (mg/L)



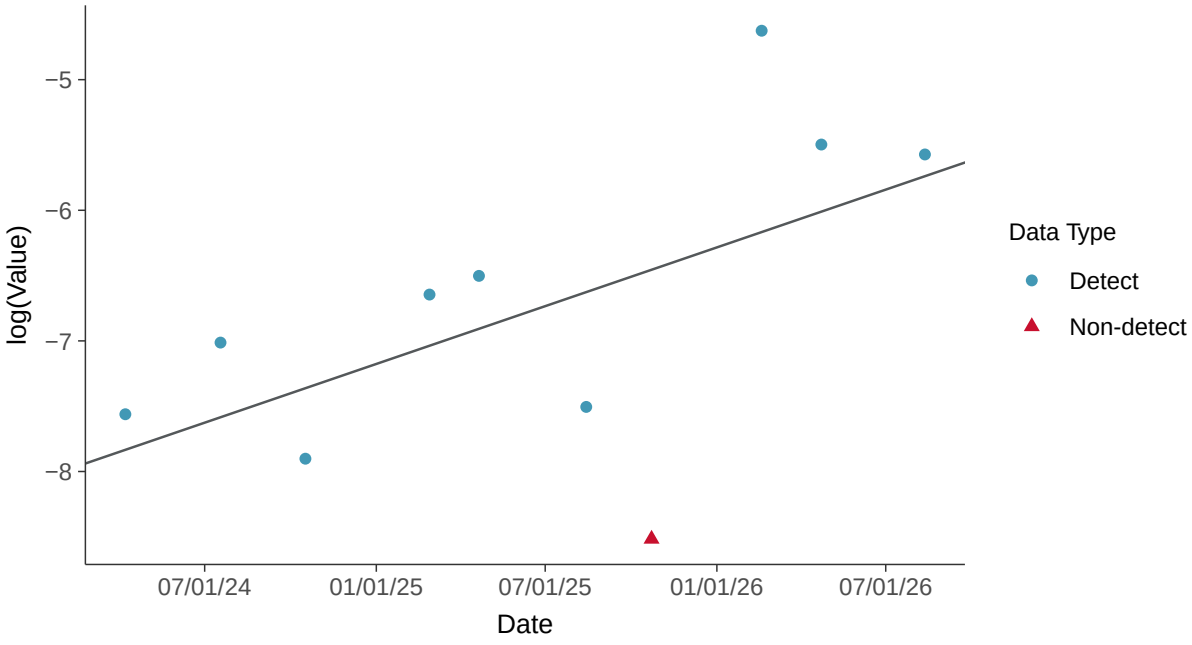
Gamma Q-Q plot using ROS Imputed Estimates

Copper, MW-28 (mg/L)



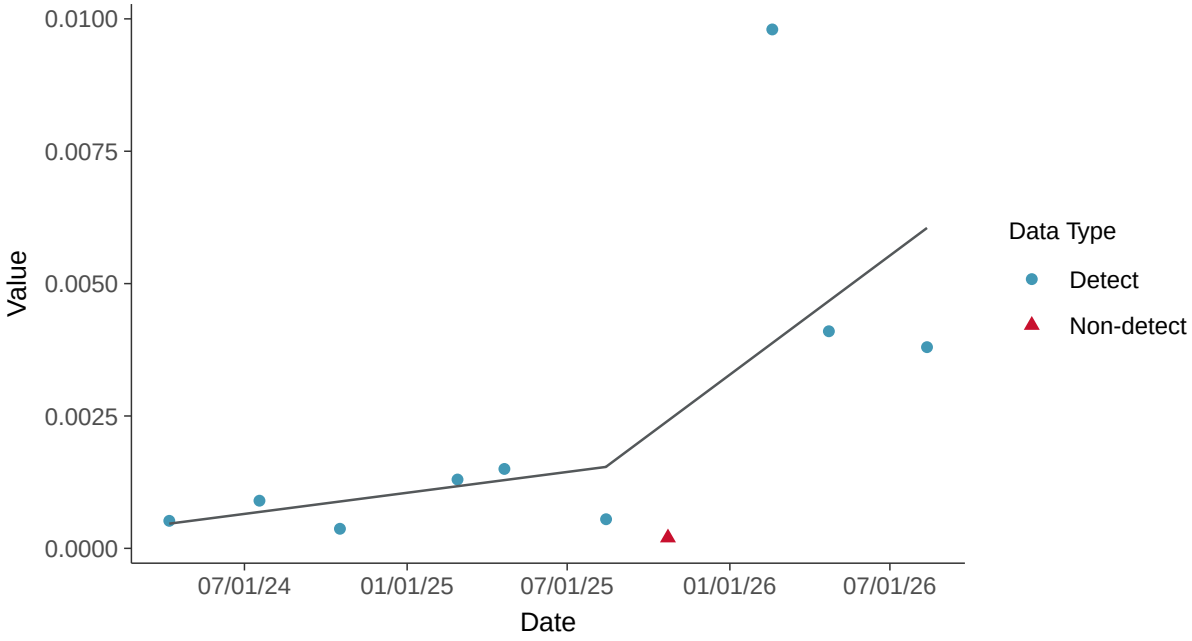
Trend Regression: Lognormal MLE

Copper, MW-28 (mg/L)



Trend Regression: Piecewise Linear-Linear

Copper, MW-28 (mg/L)

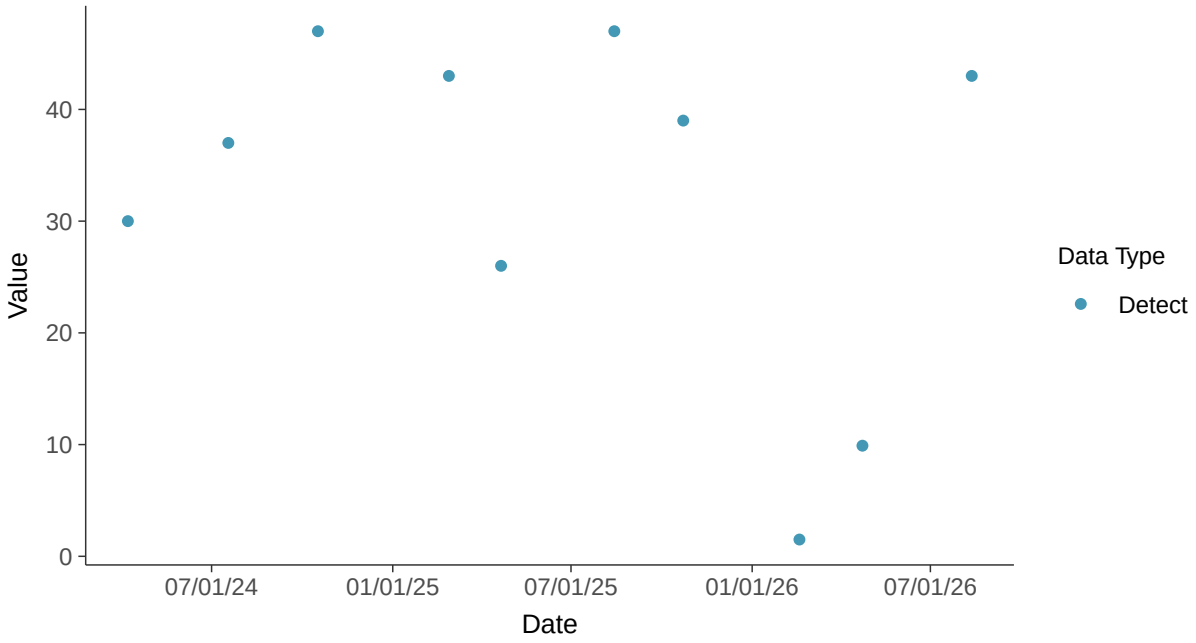


Part 115: Iron, MW-28

ID: 38_1_5_114

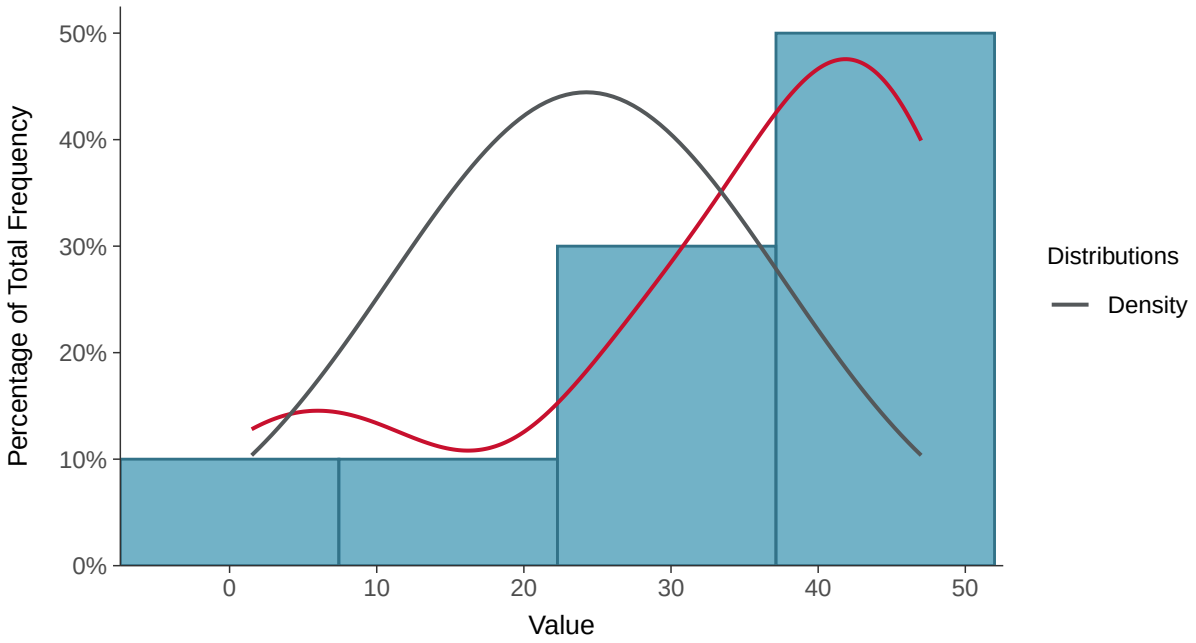
Scatter Plot

Iron, MW-28 (mg/L)



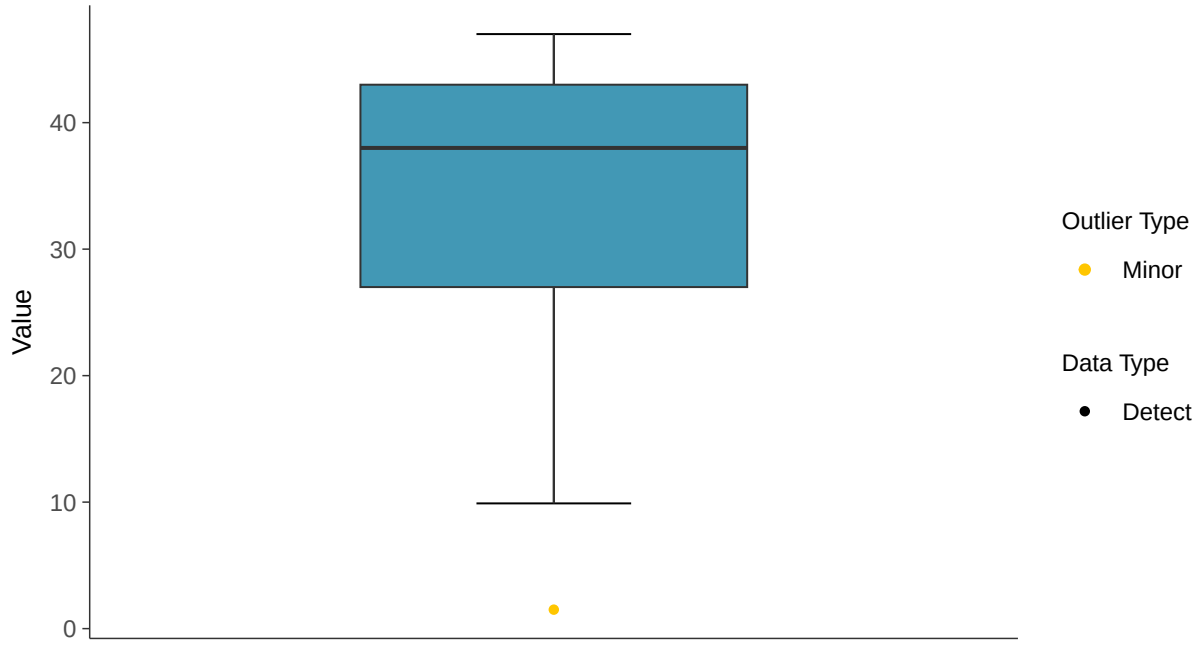
Histogram

Iron, MW-28 (mg/L)



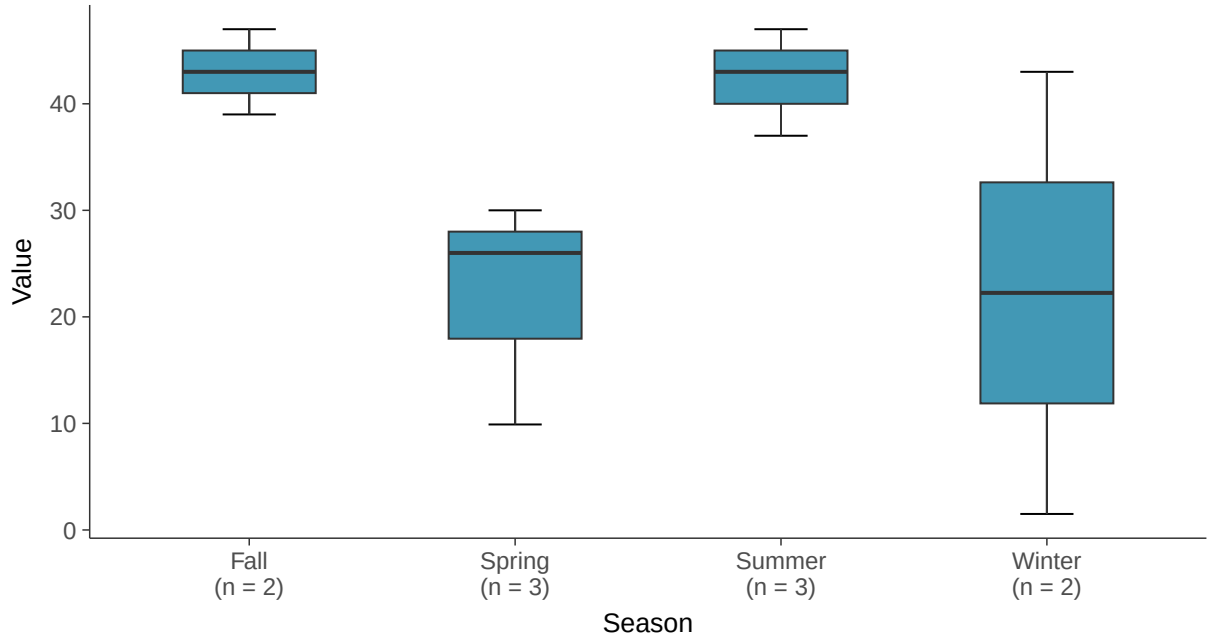
Boxplot

Iron, MW-28 (mg/L)



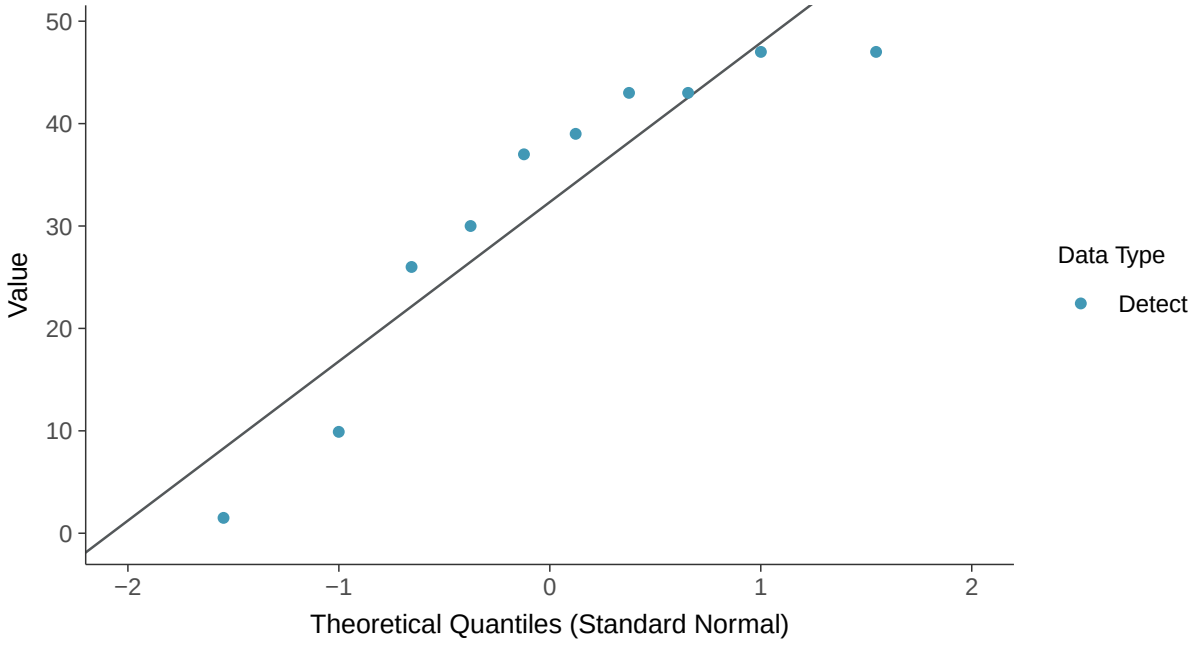
Boxplot by Season

Iron, MW-28 (mg/L)



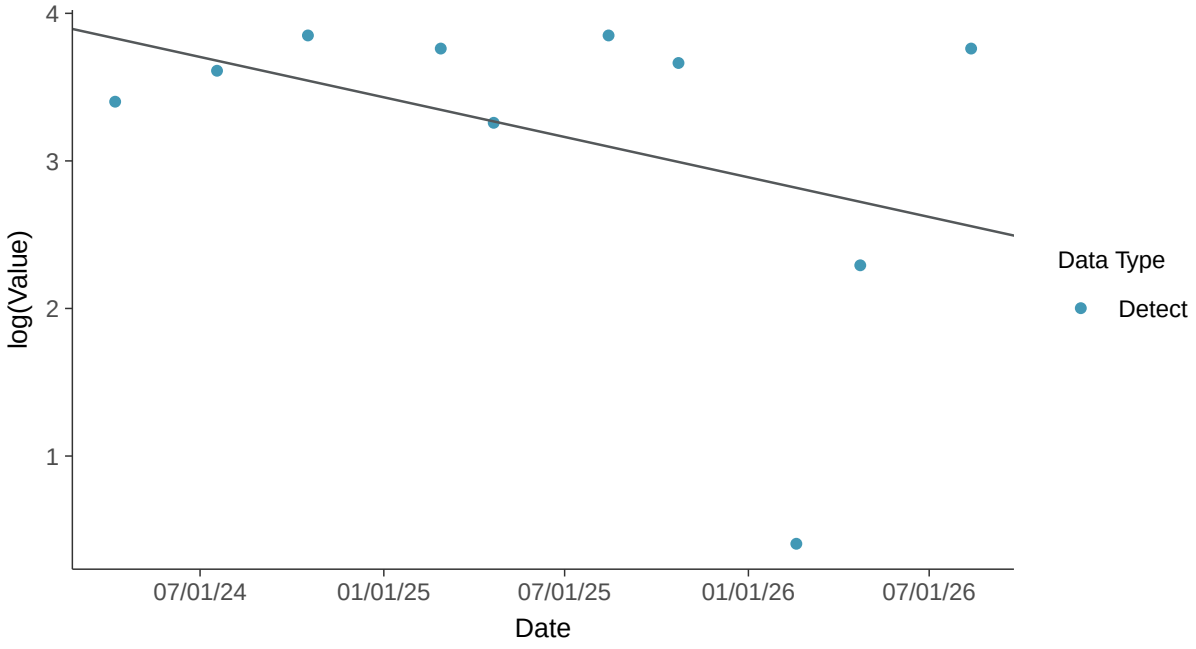
Normal Q-Q plot

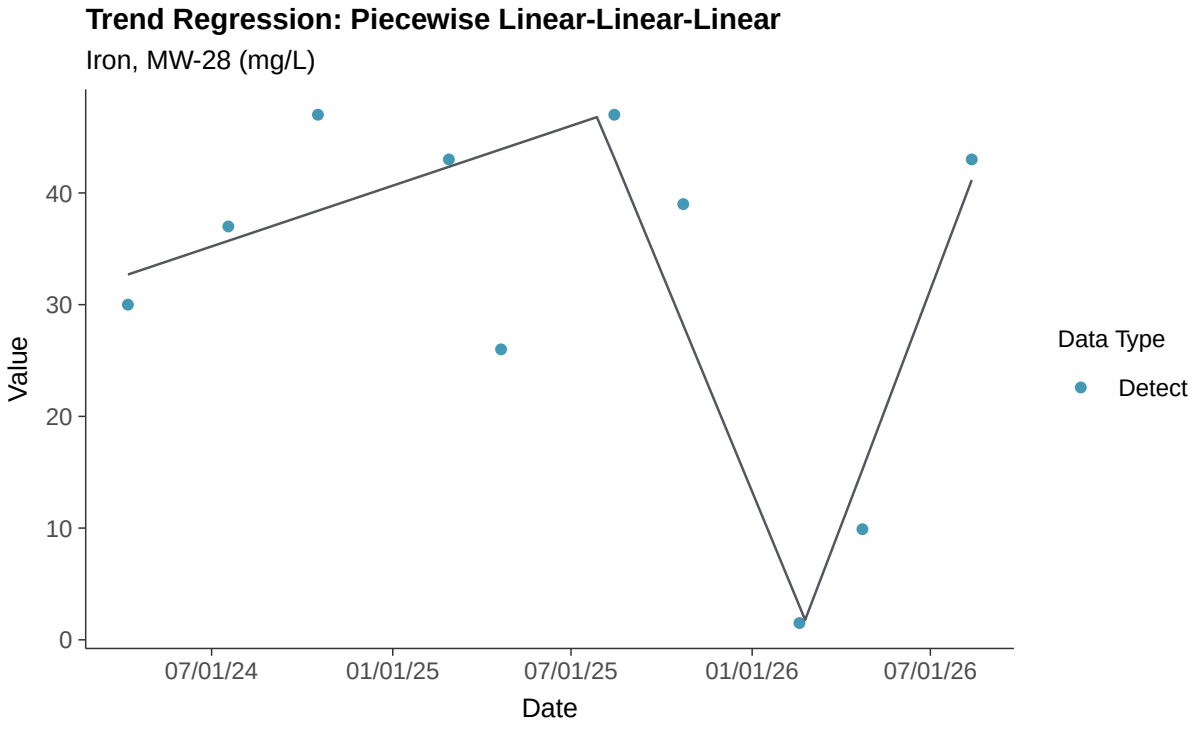
Iron, MW-28 (mg/L)



Trend Regression: Lognormal MLE

Iron, MW-28 (mg/L)



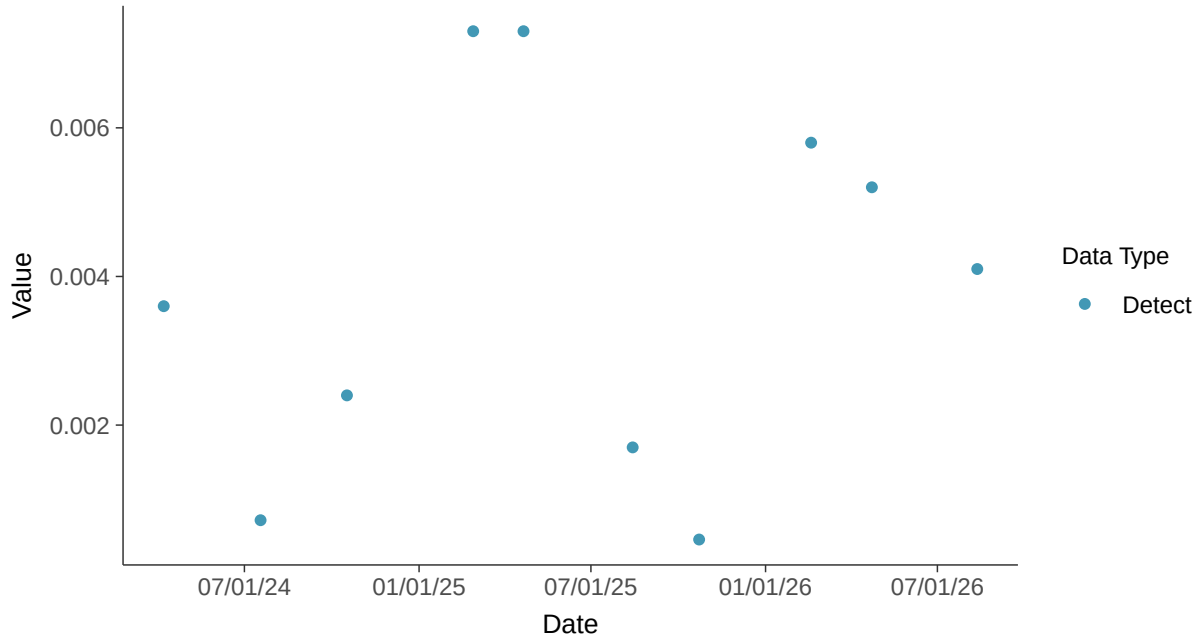

Trend Regression: Piecewise Linear-Linear-Linear
Iron, MW-28 (mg/L)
Value
0
10
20
30
40
07/01/24
01/01/25
07/01/25
01/01/26
07/01/26
Date
Data Type
Detect

Part 115: Nickel, MW-28

ID: 38_1_5_119

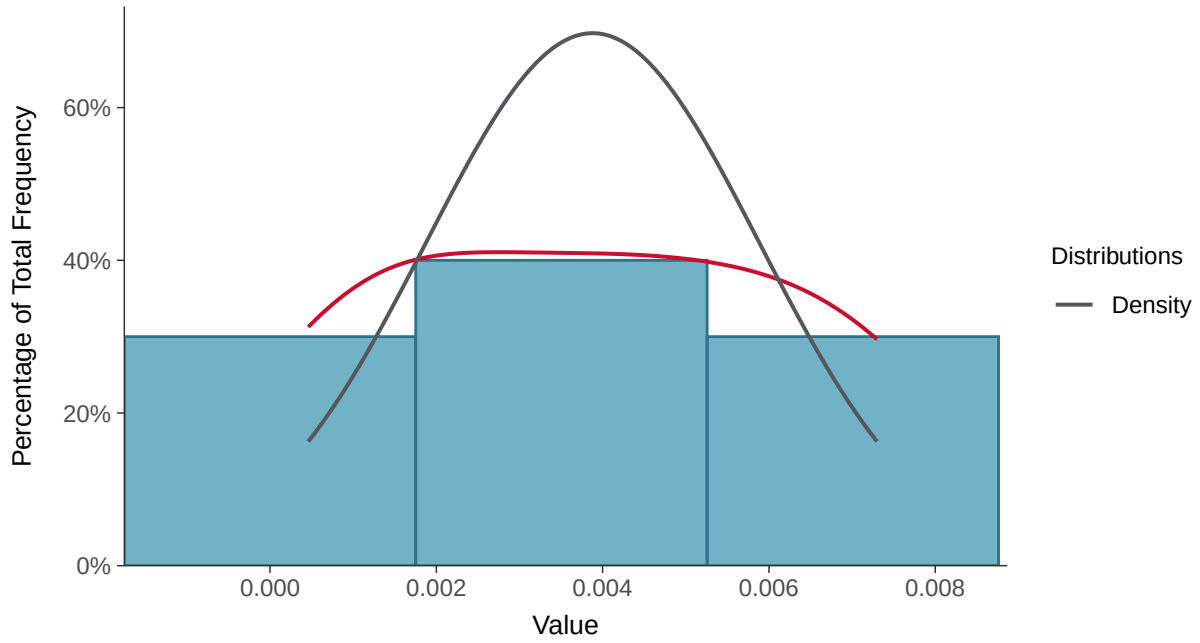
Scatter Plot

Nickel, MW-28 (mg/L)



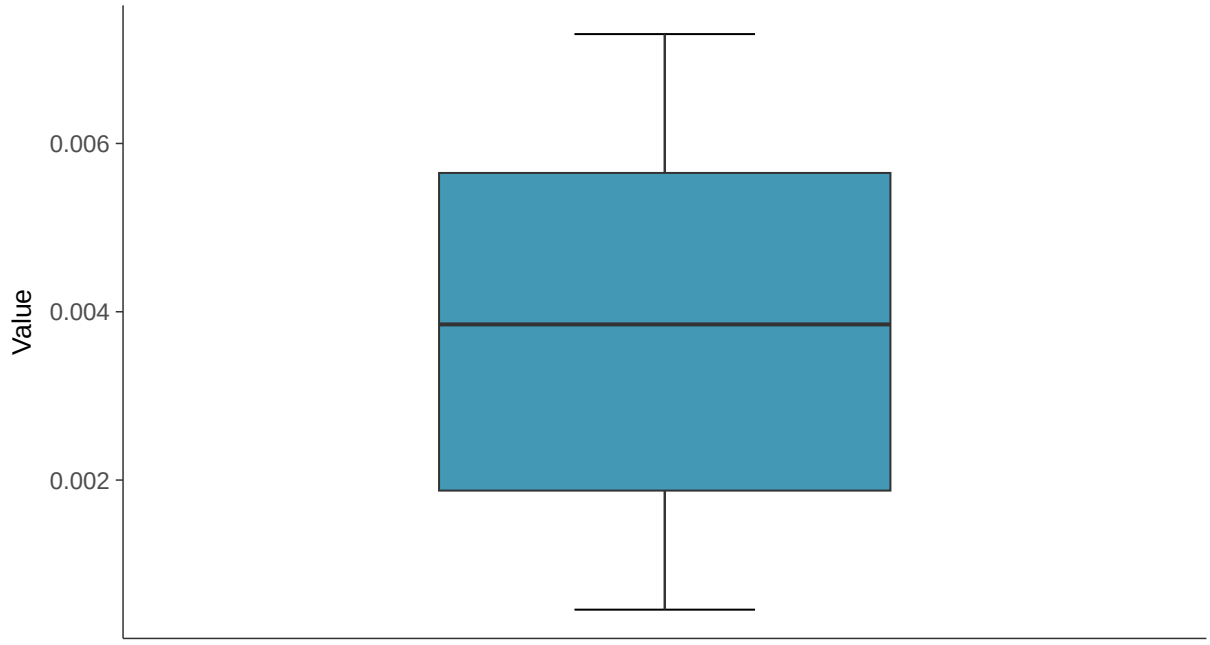
Histogram

Nickel, MW-28 (mg/L)



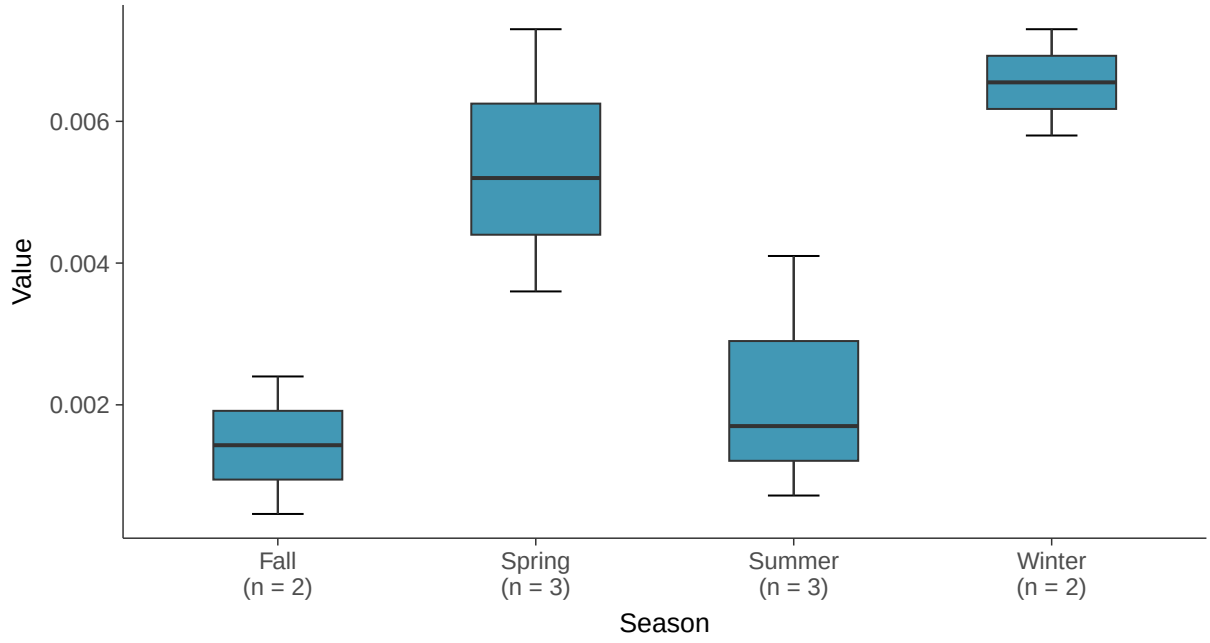
Boxplot

Nickel, MW-28 (mg/L)



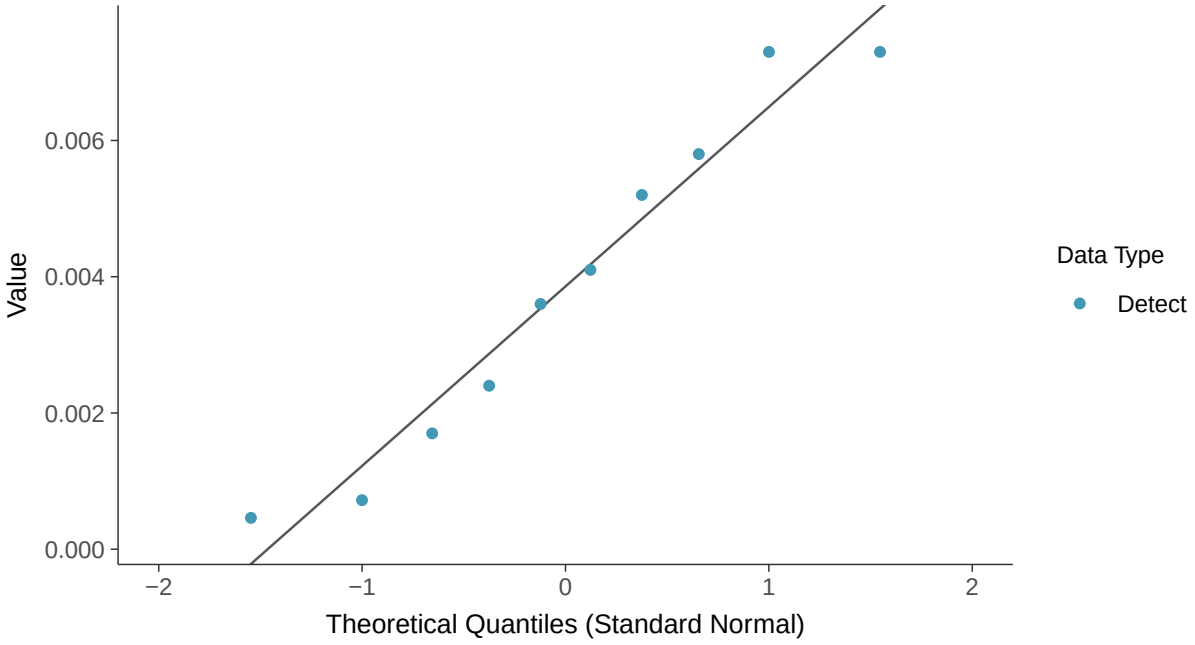
Boxplot by Season

Nickel, MW-28 (mg/L)



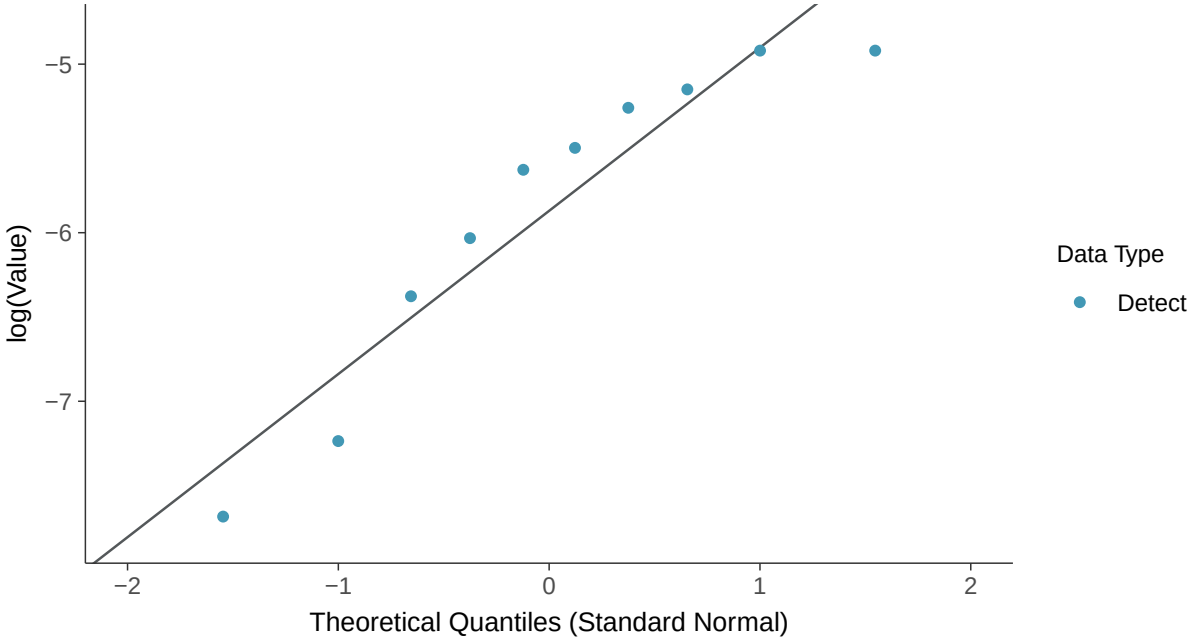
Normal Q-Q plot

Nickel, MW-28 (mg/L)



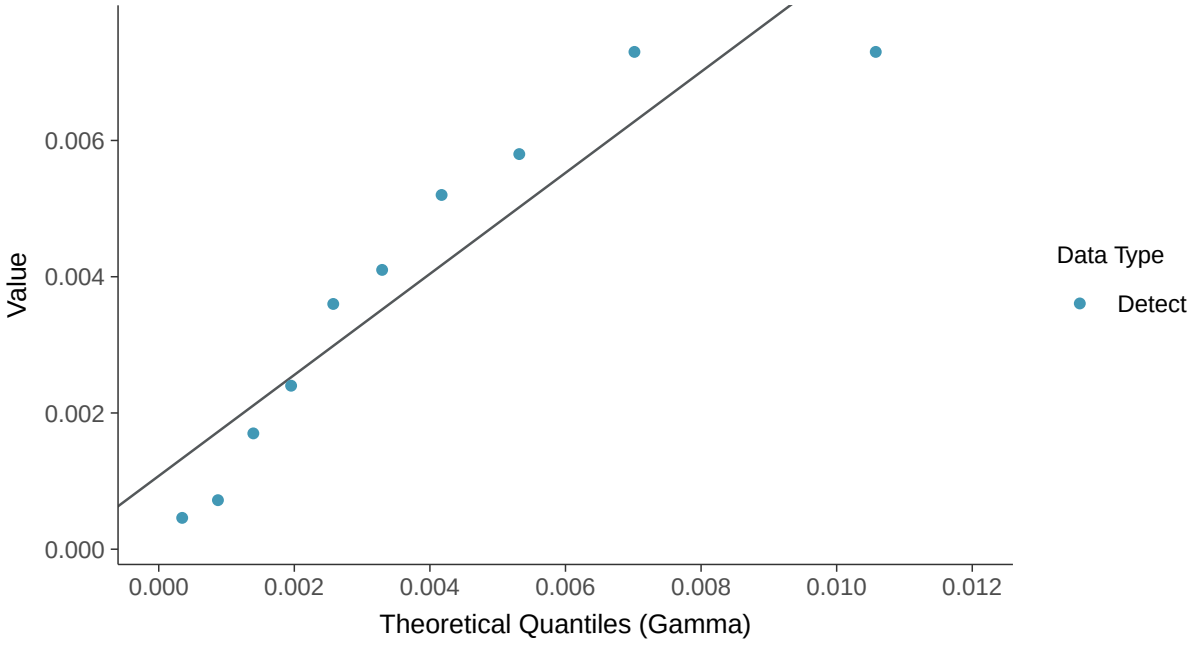
Lognormal Q-Q plot

Nickel, MW-28 (mg/L)



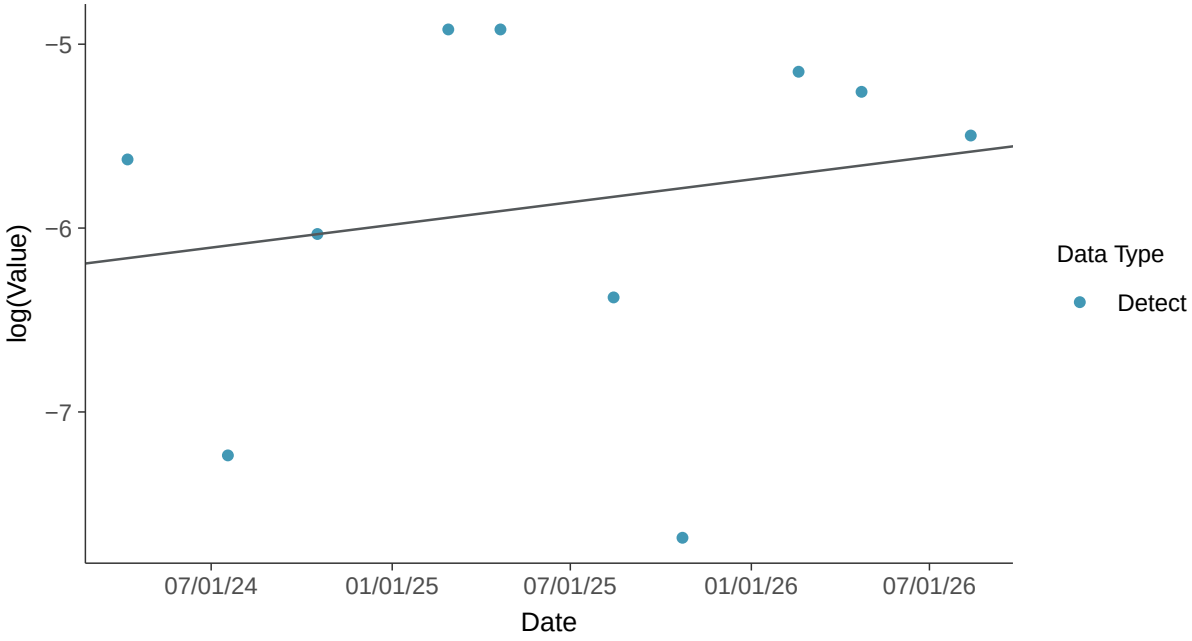
Gamma Q-Q plot

Nickel, MW-28 (mg/L)



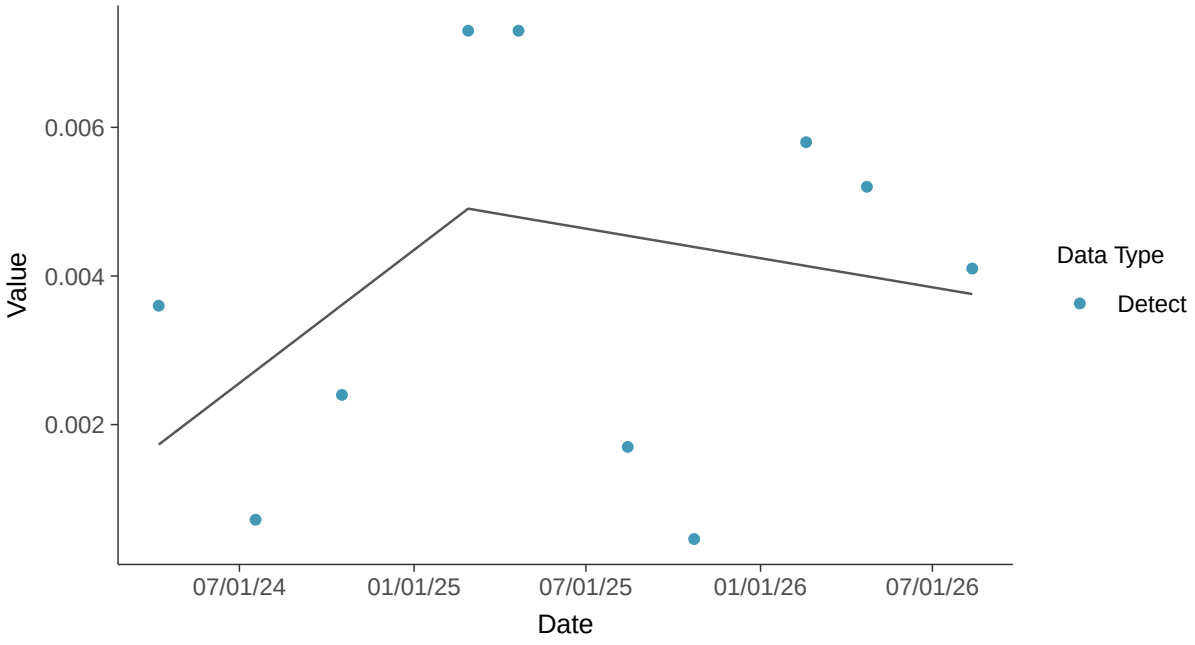
Trend Regression: Lognormal MLE

Nickel, MW-28 (mg/L)



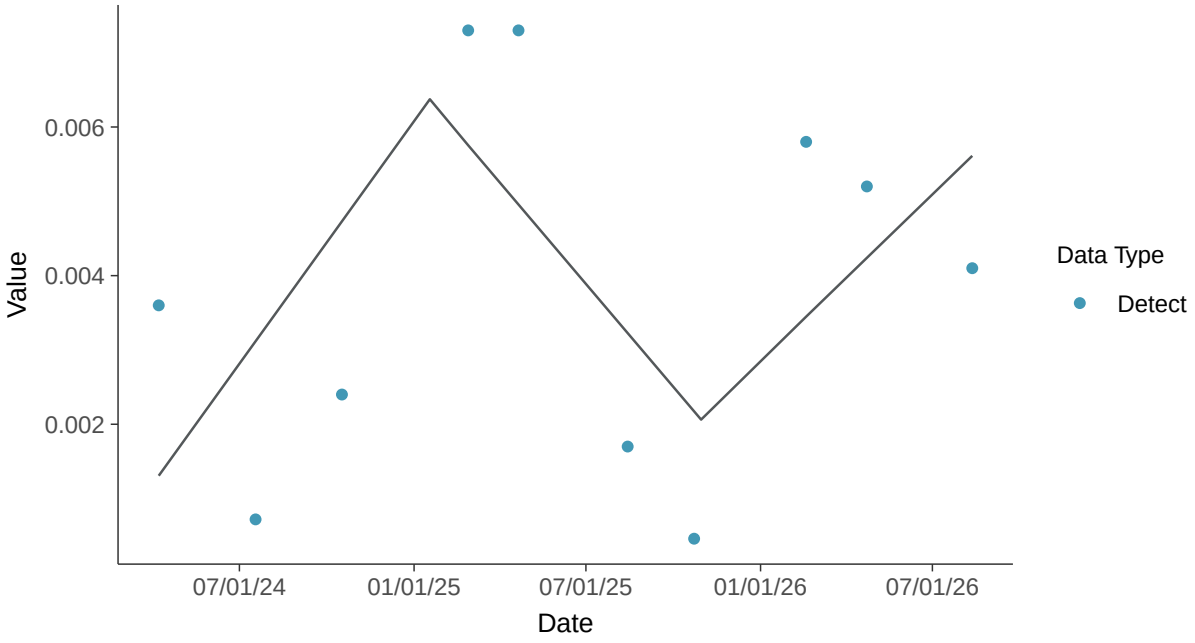
Trend Regression: Piecewise Linear-Linear

Nickel, MW-28 (mg/L)



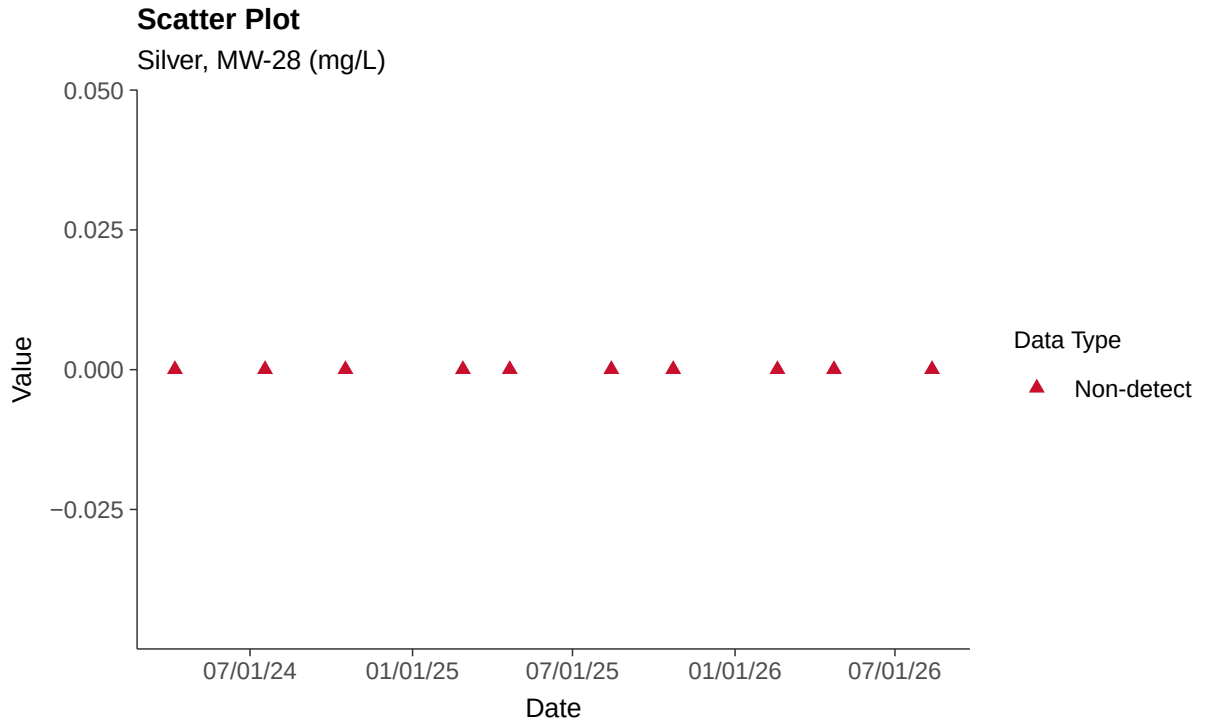
Trend Regression: Piecewise Linear-Linear-Linear

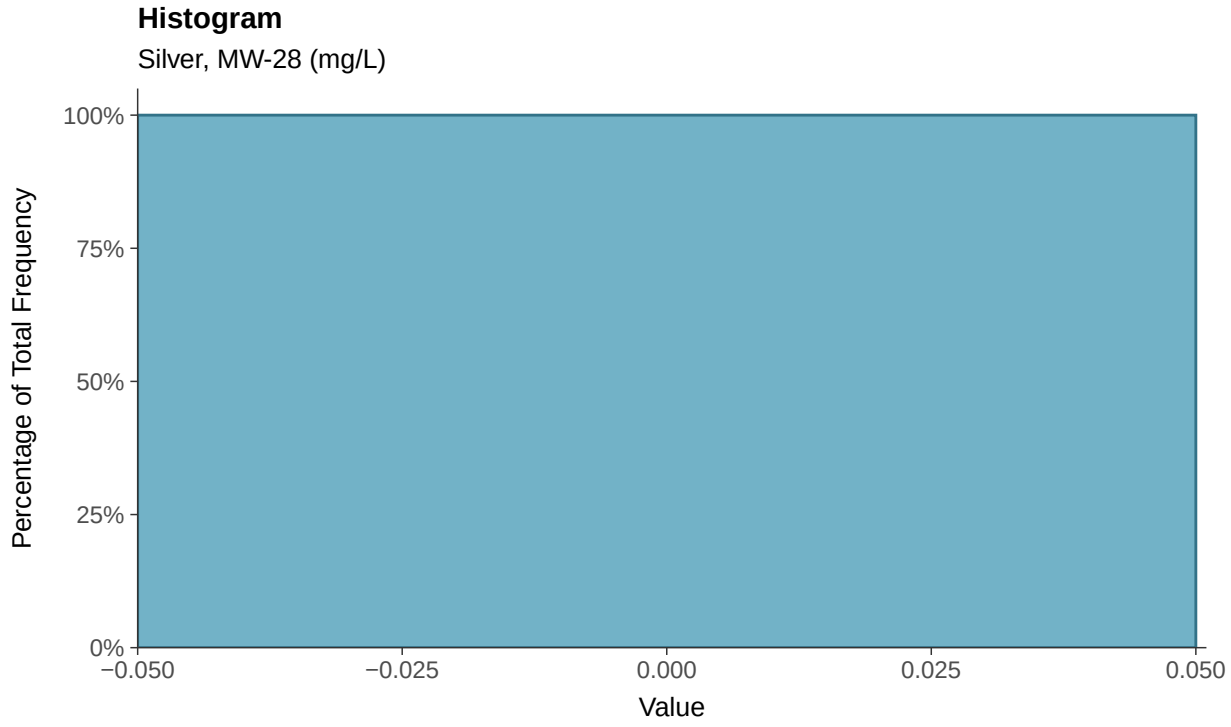
Nickel, MW-28 (mg/L)



Part 115: Silver, MW-28

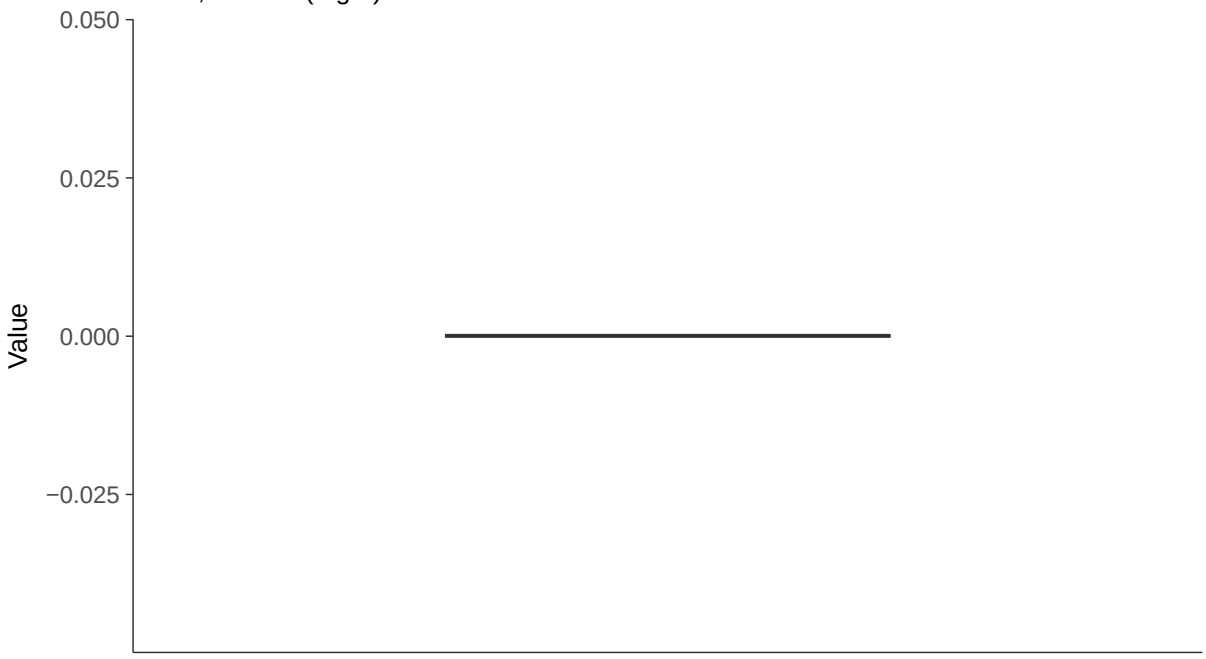
ID: 38_1_5_123





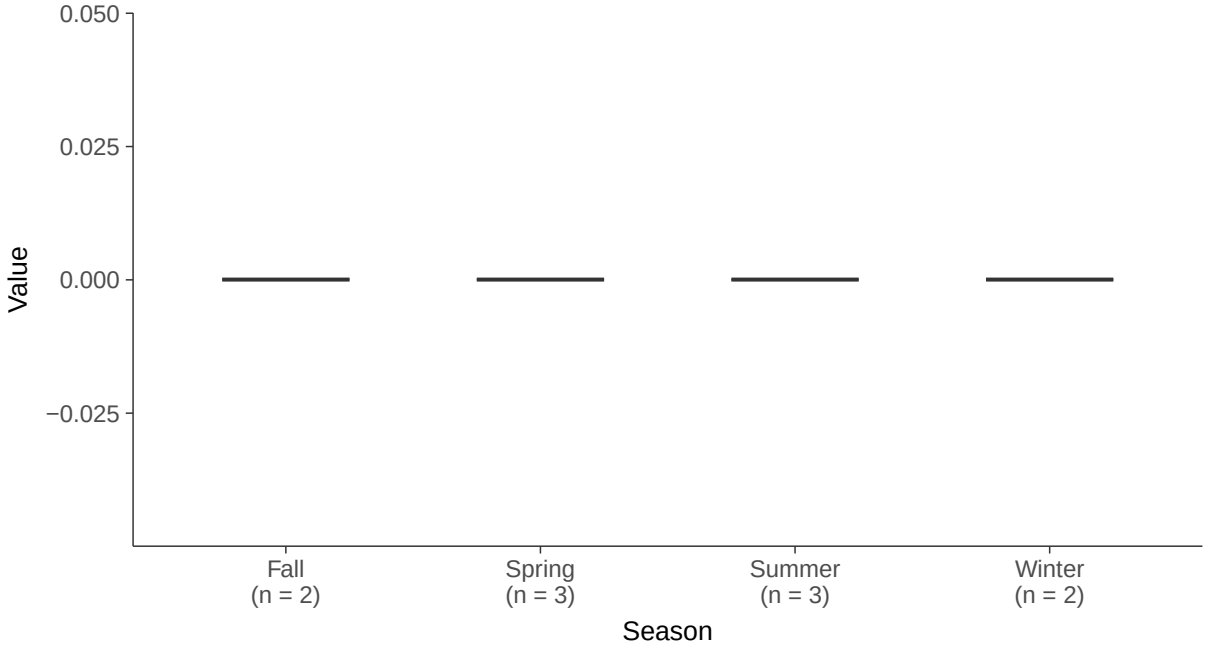
Boxplot

Silver, MW-28 (mg/L)



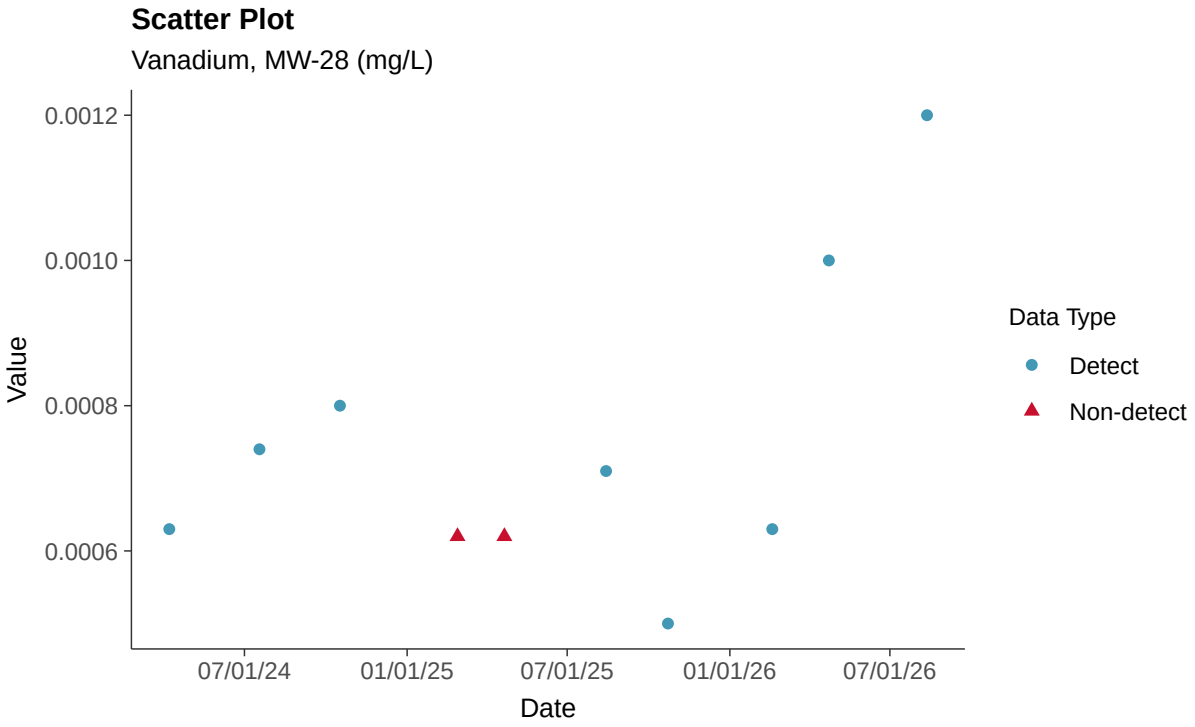
Boxplot by Season

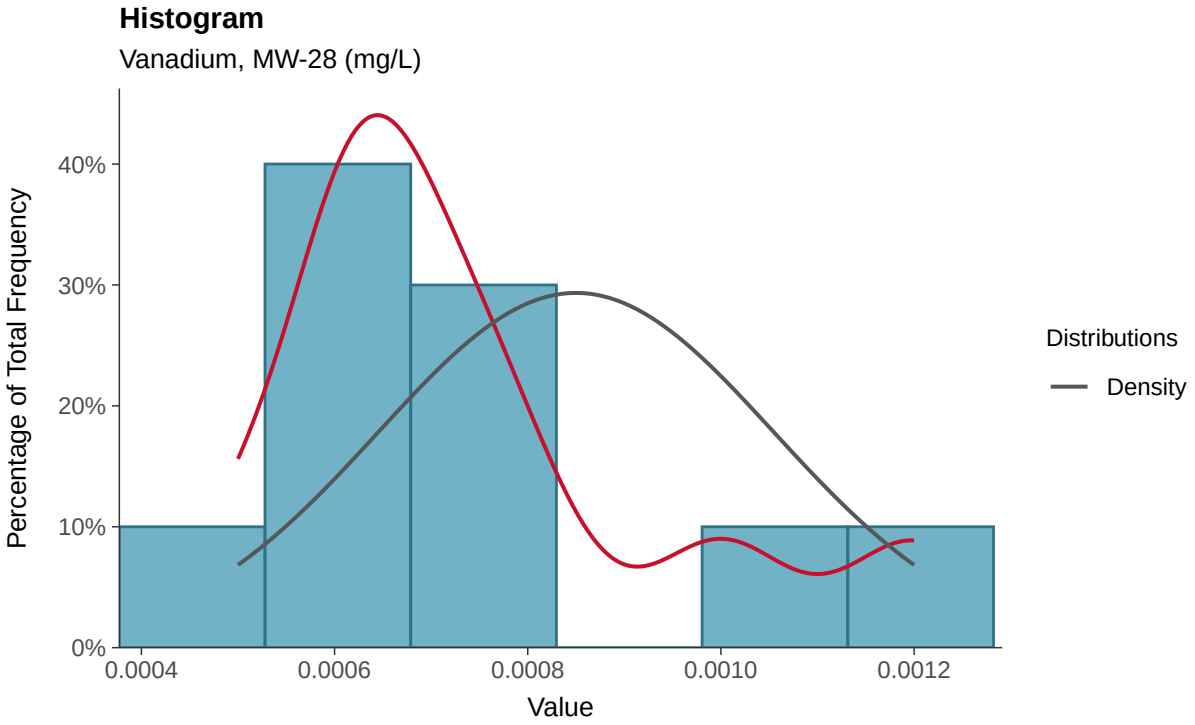
Silver, MW-28 (mg/L)



Part 115: Vanadium, MW-28

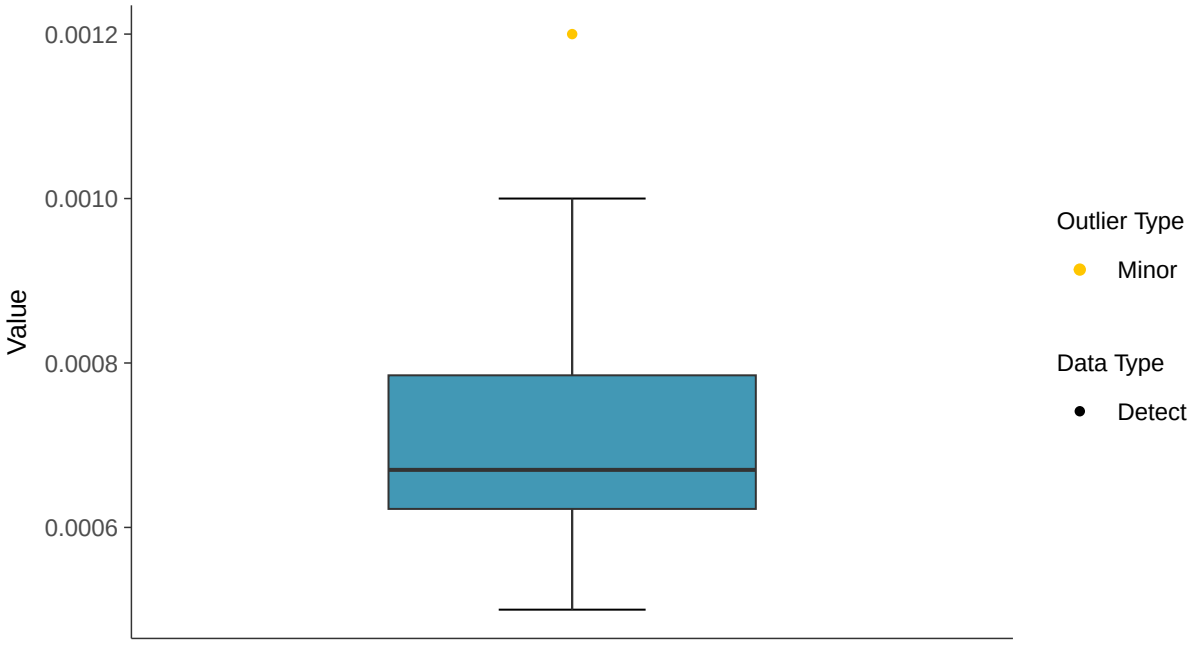
ID: 38_1_5_128





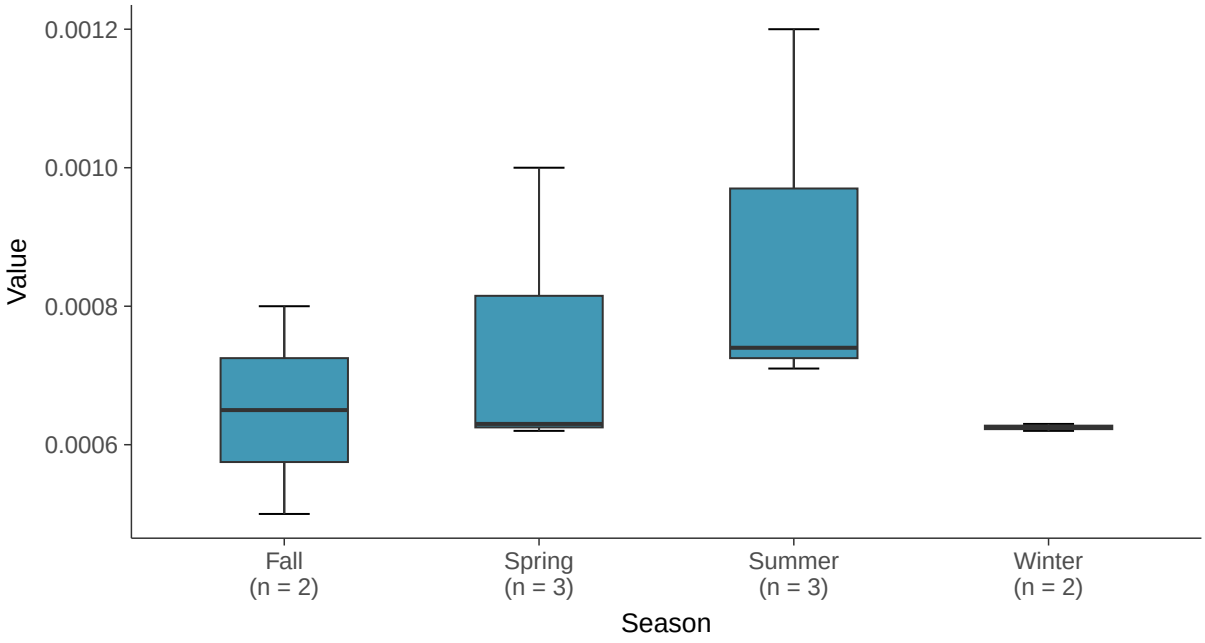
Boxplot

Vanadium, MW-28 (mg/L)



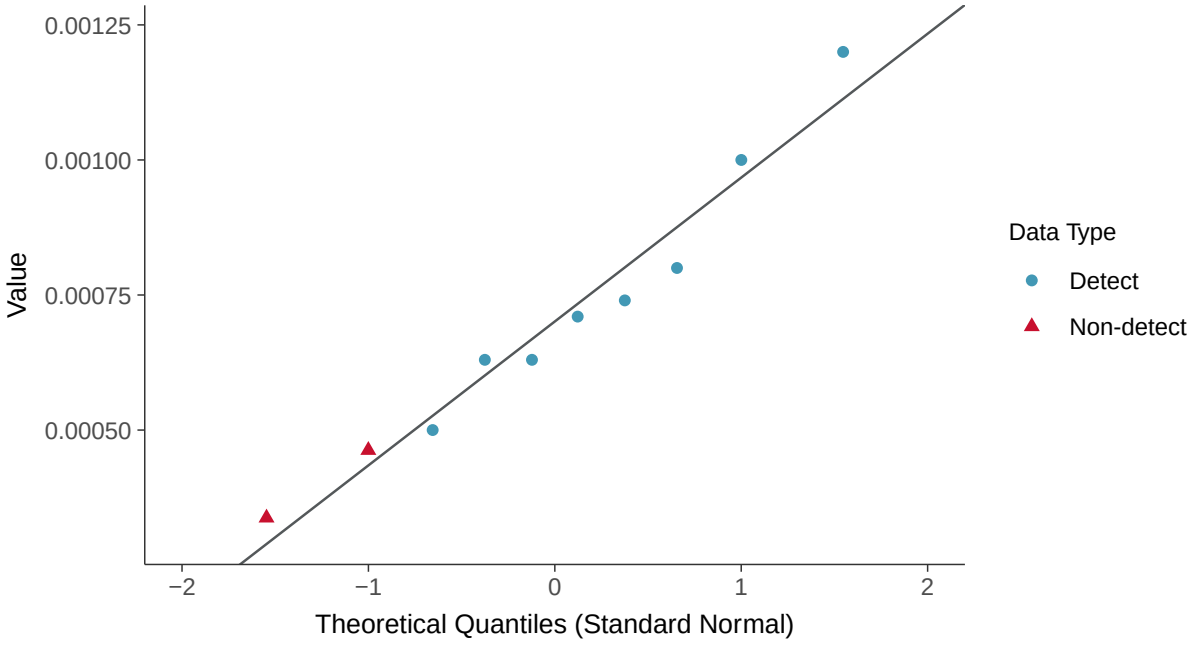
Boxplot by Season

Vanadium, MW-28 (mg/L)



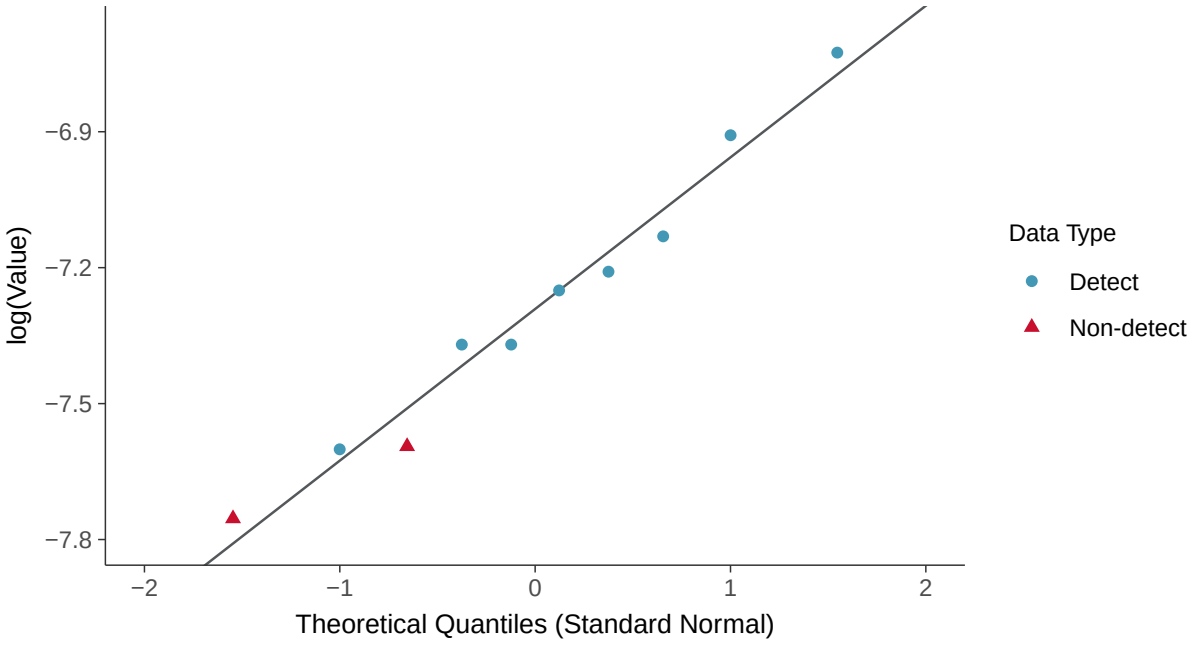
Normal Q-Q plot using ROS Imputed Estimates

Vanadium, MW-28 (mg/L)



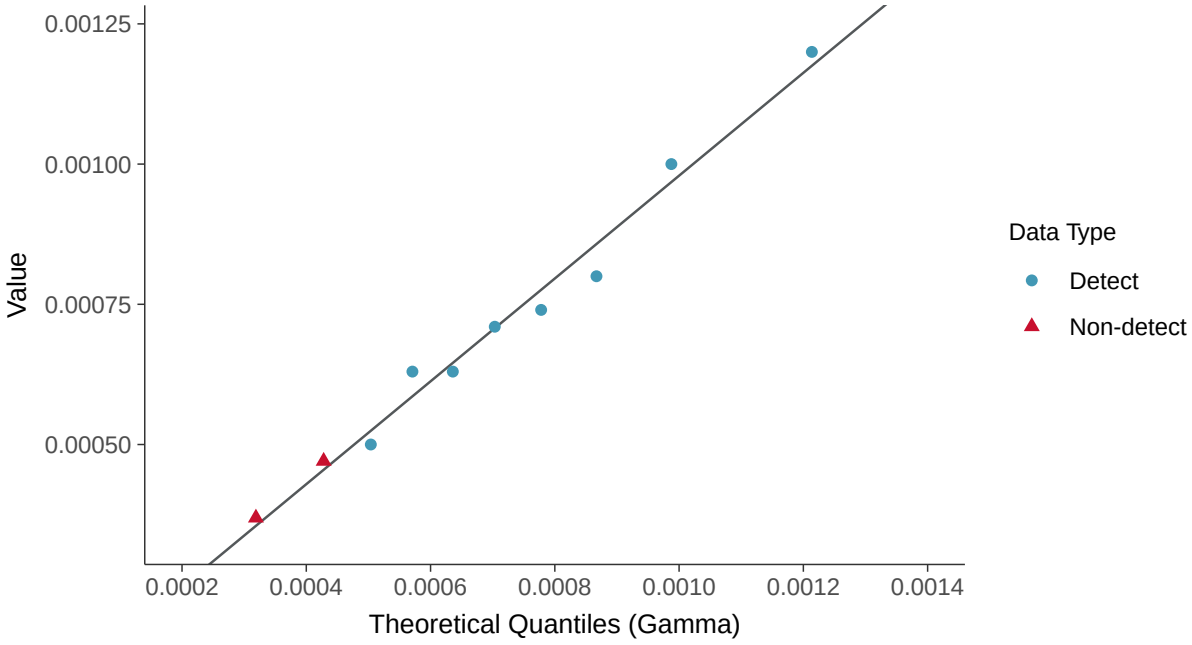
Lognormal Q-Q plot using ROS Imputed Estimates

Vanadium, MW-28 (mg/L)



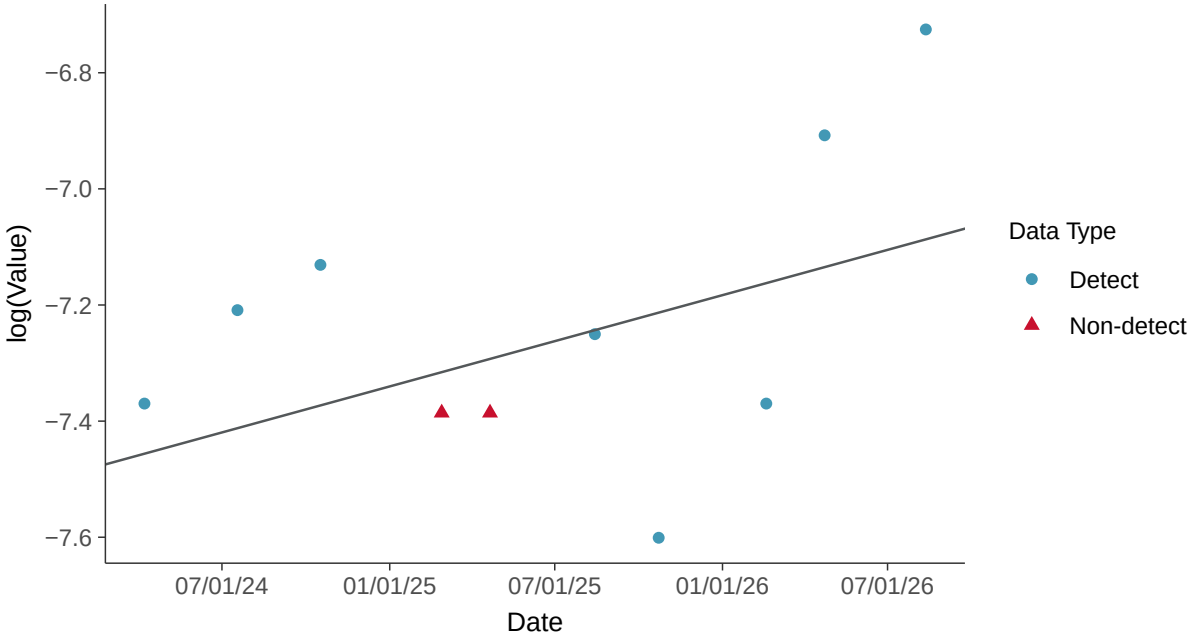
Gamma Q-Q plot using ROS Imputed Estimates

Vanadium, MW-28 (mg/L)



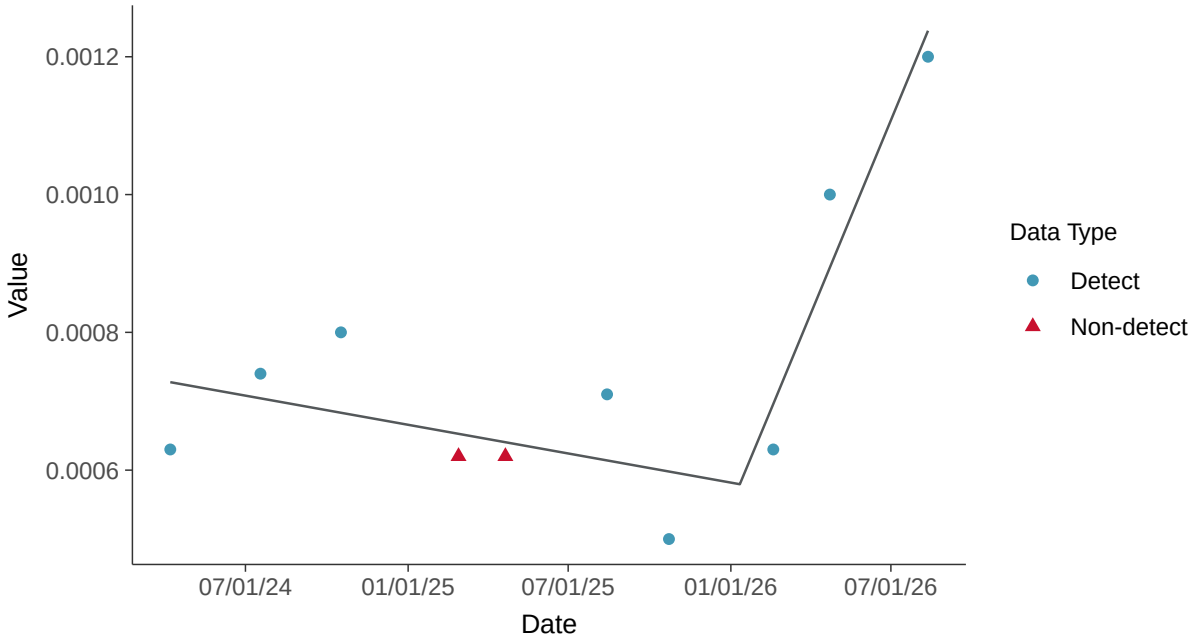
Trend Regression: Lognormal MLE

Vanadium, MW-28 (mg/L)



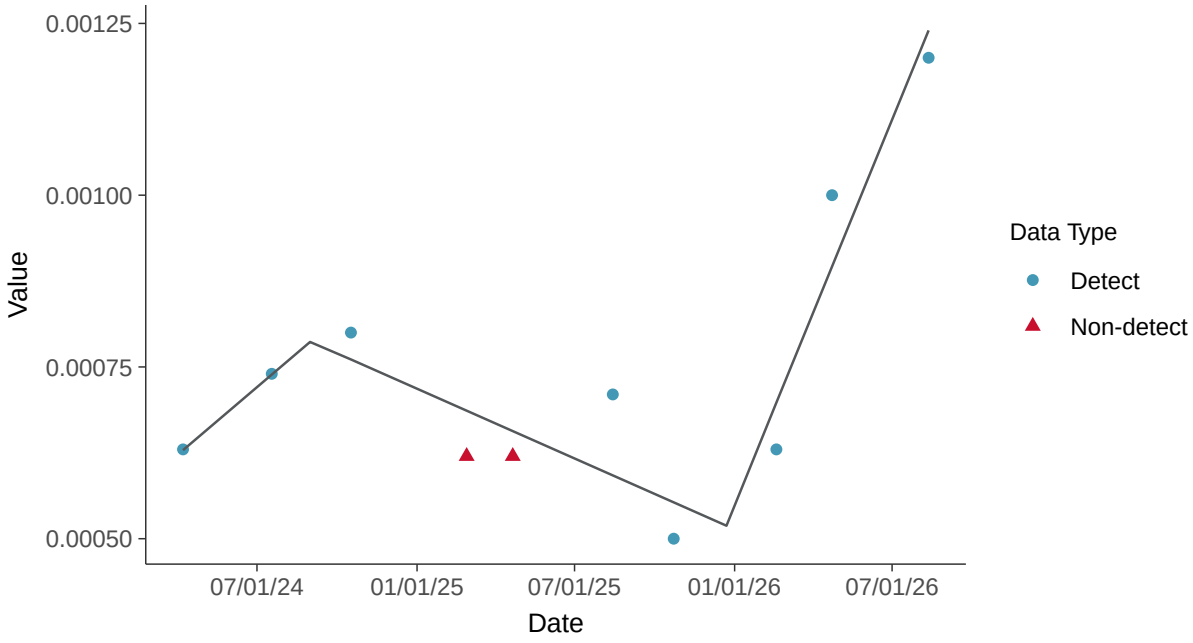
Trend Regression: Piecewise Linear-Linear

Vanadium, MW-28 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Vanadium, MW-28 (mg/L)

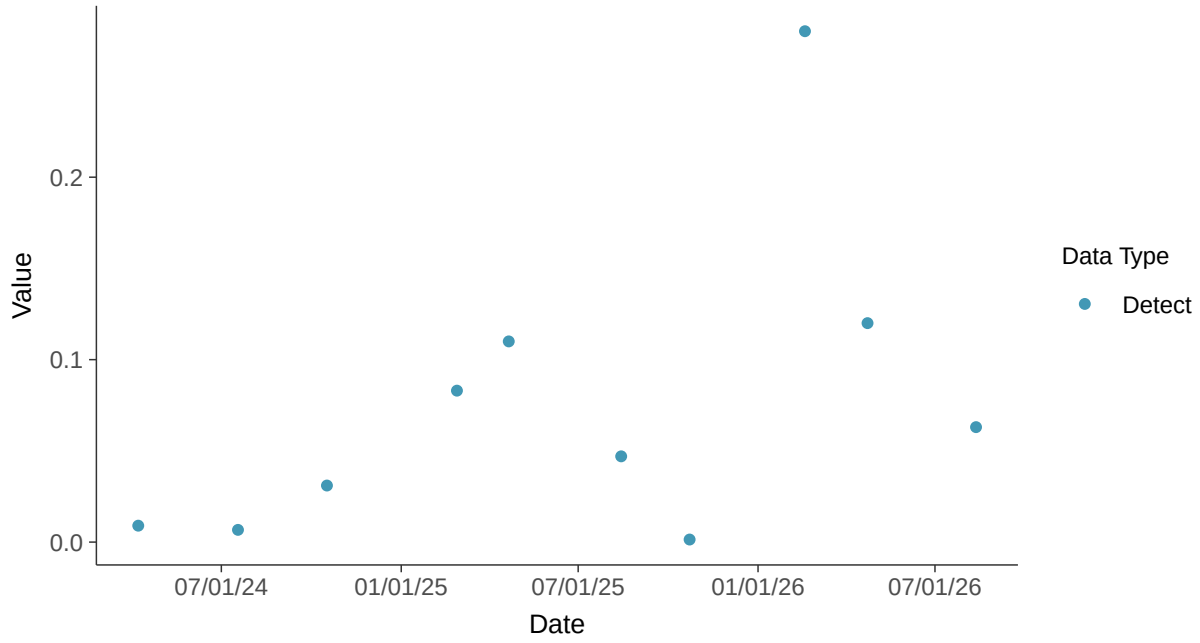


Part 115: Zinc, MW-28

ID: 38_1_5_129

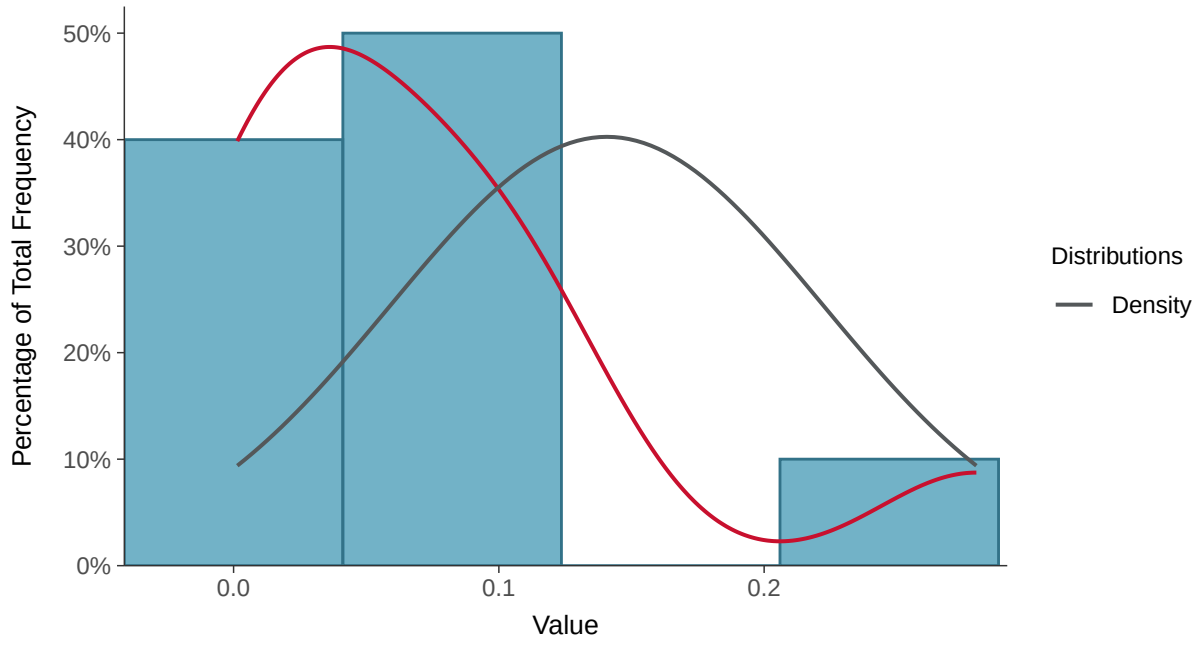
Scatter Plot

Zinc, MW-28 (mg/L)



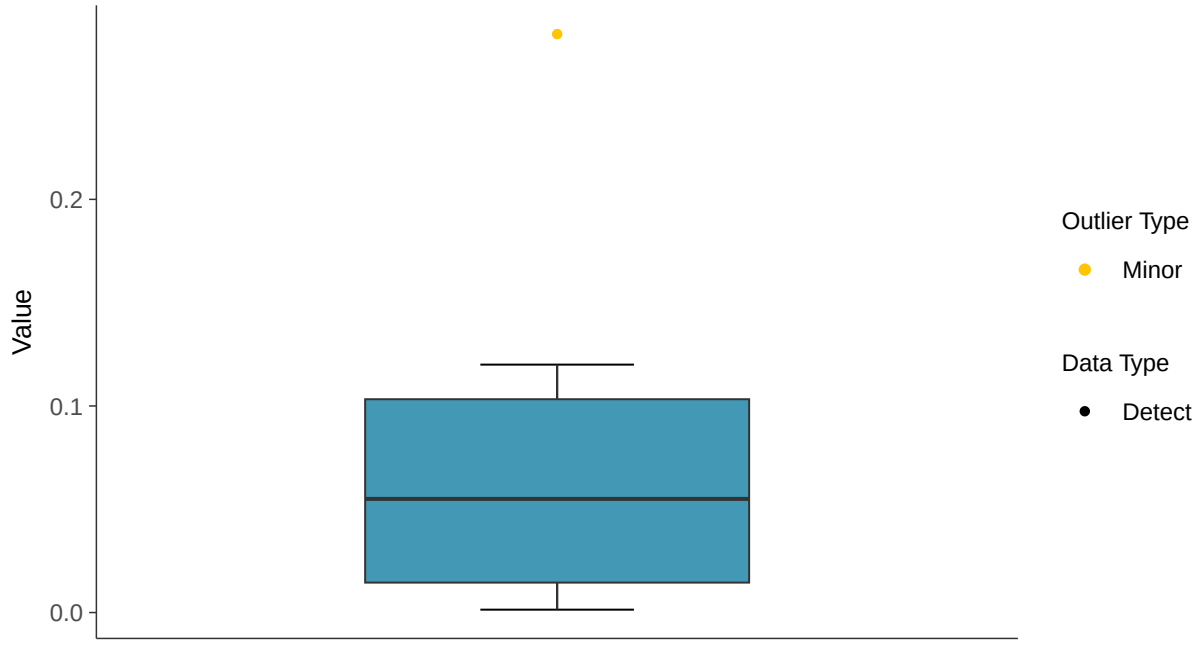
Histogram

Zinc, MW-28 (mg/L)



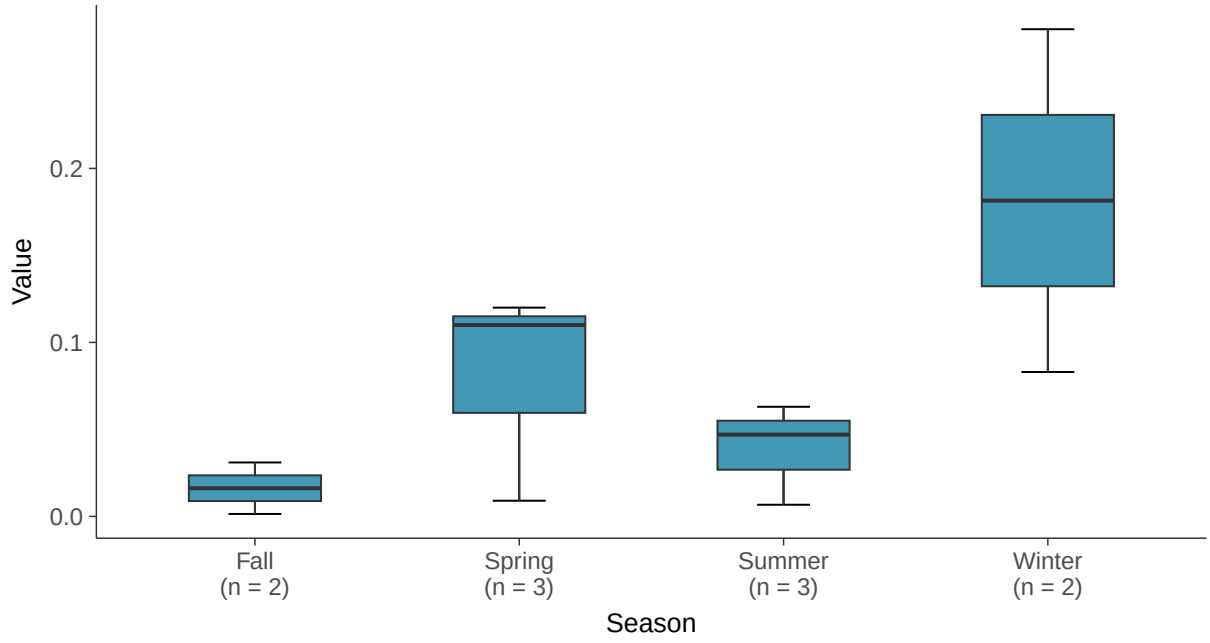
Boxplot

Zinc, MW-28 (mg/L)



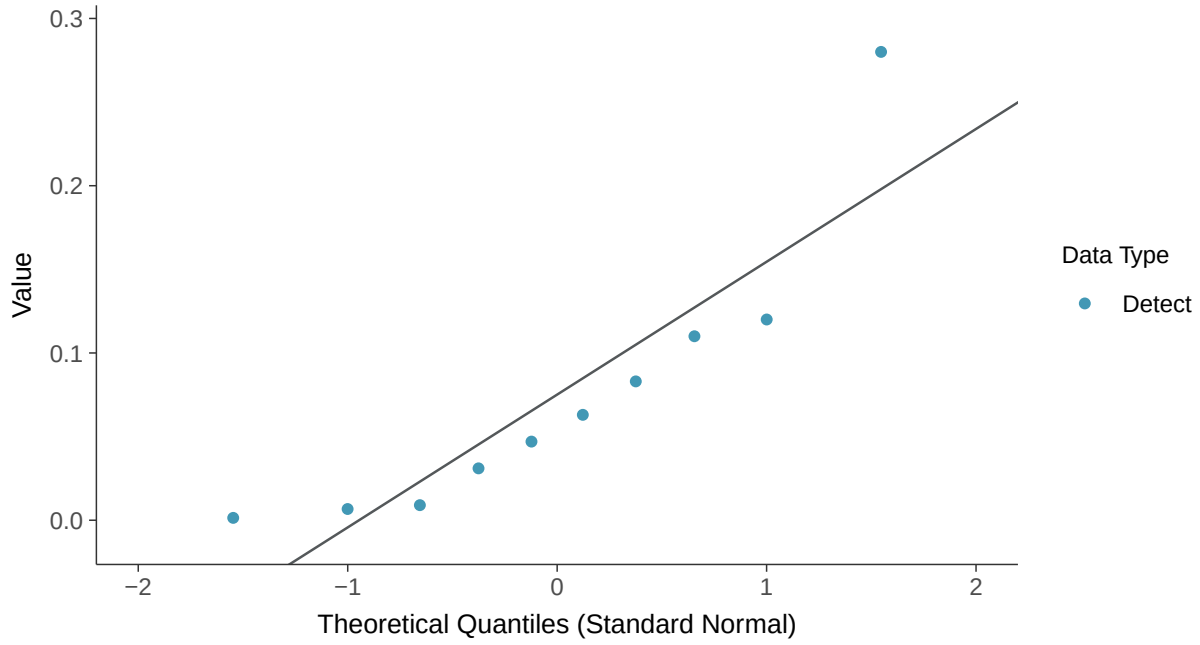
Boxplot by Season

Zinc, MW-28 (mg/L)



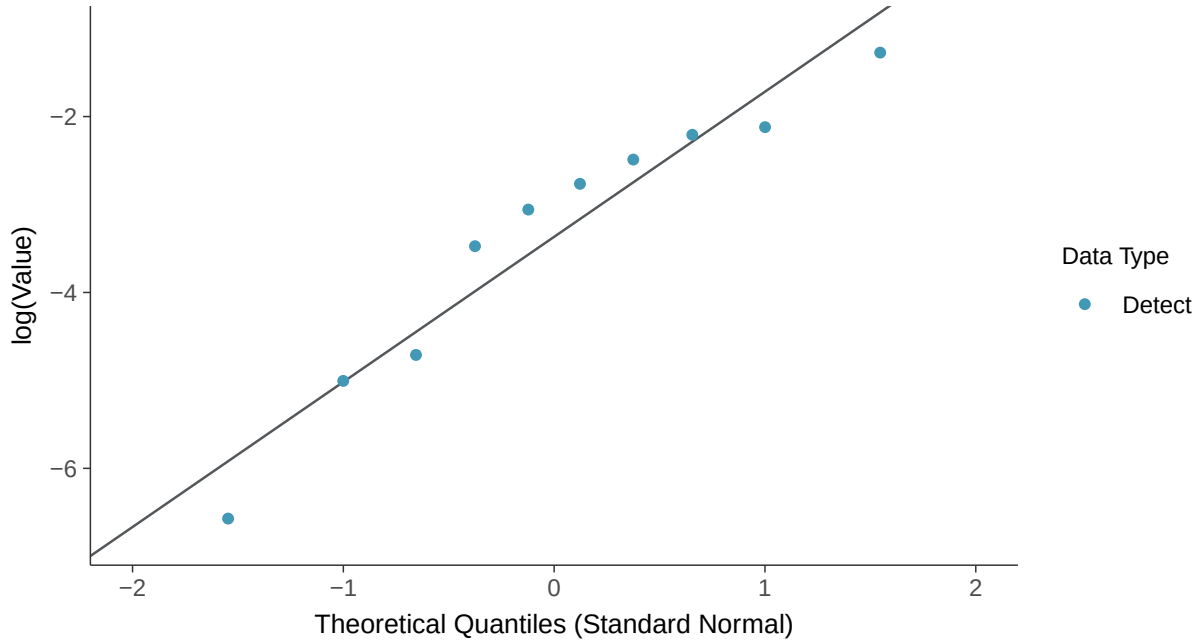
Normal Q-Q plot

Zinc, MW-28 (mg/L)



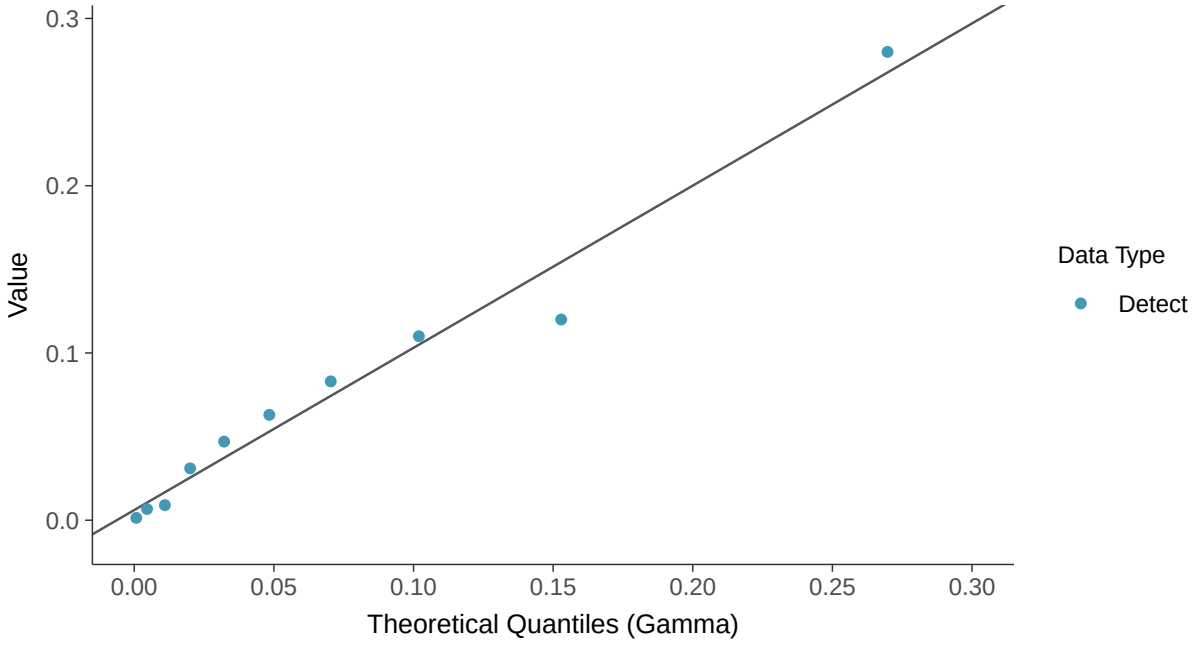
Lognormal Q-Q plot

Zinc, MW-28 (mg/L)



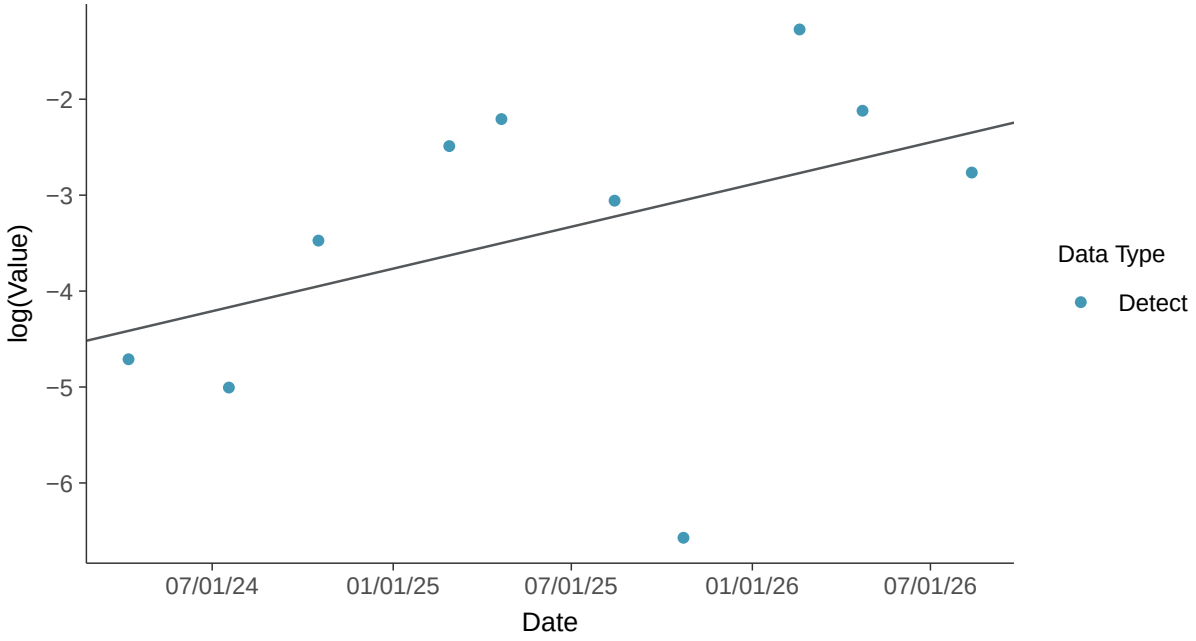
Gamma Q-Q plot

Zinc, MW-28 (mg/L)



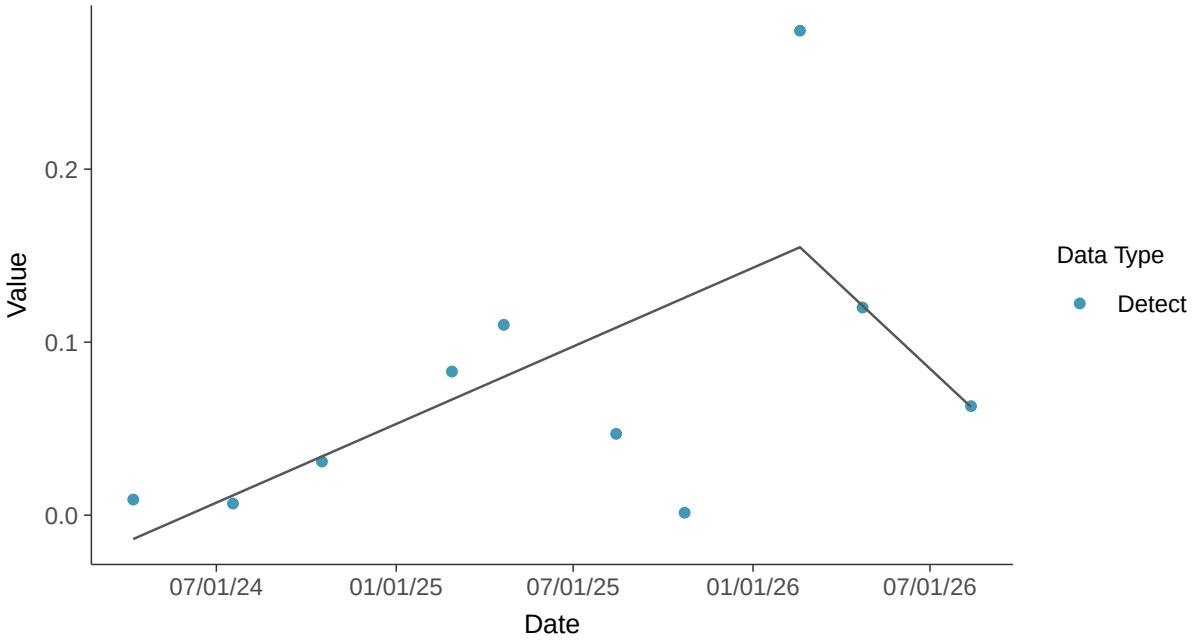
Trend Regression: Lognormal MLE

Zinc, MW-28 (mg/L)



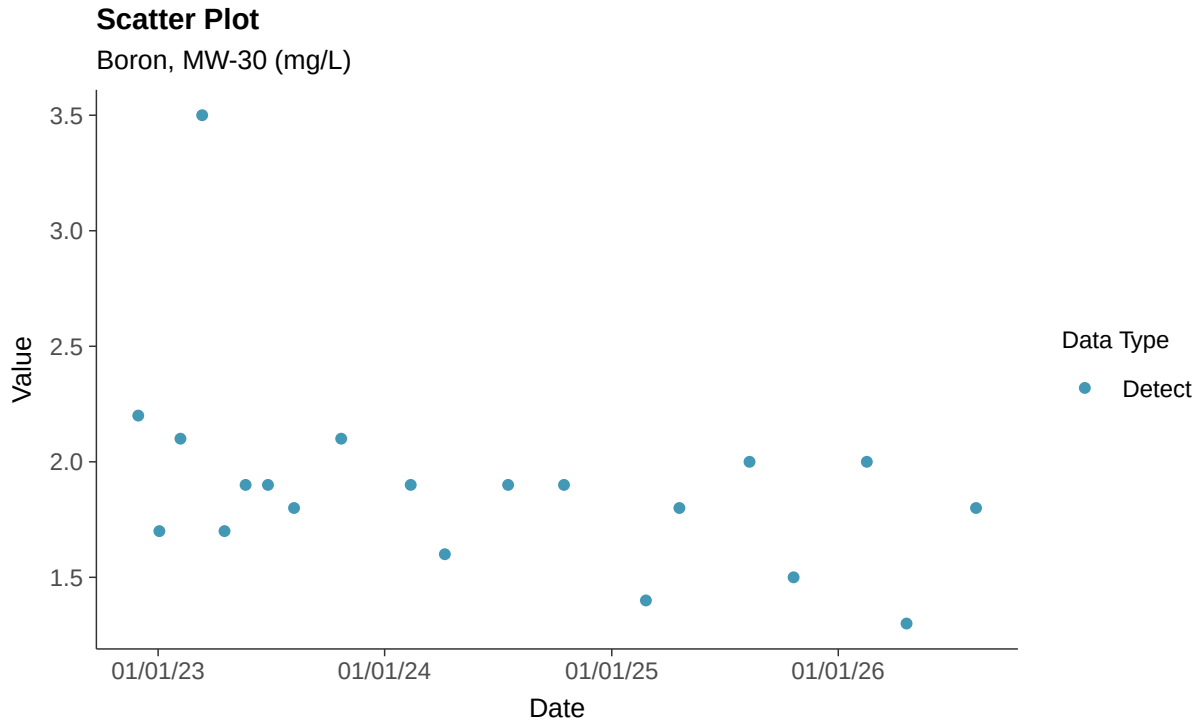
Trend Regression: Piecewise Linear-Linear

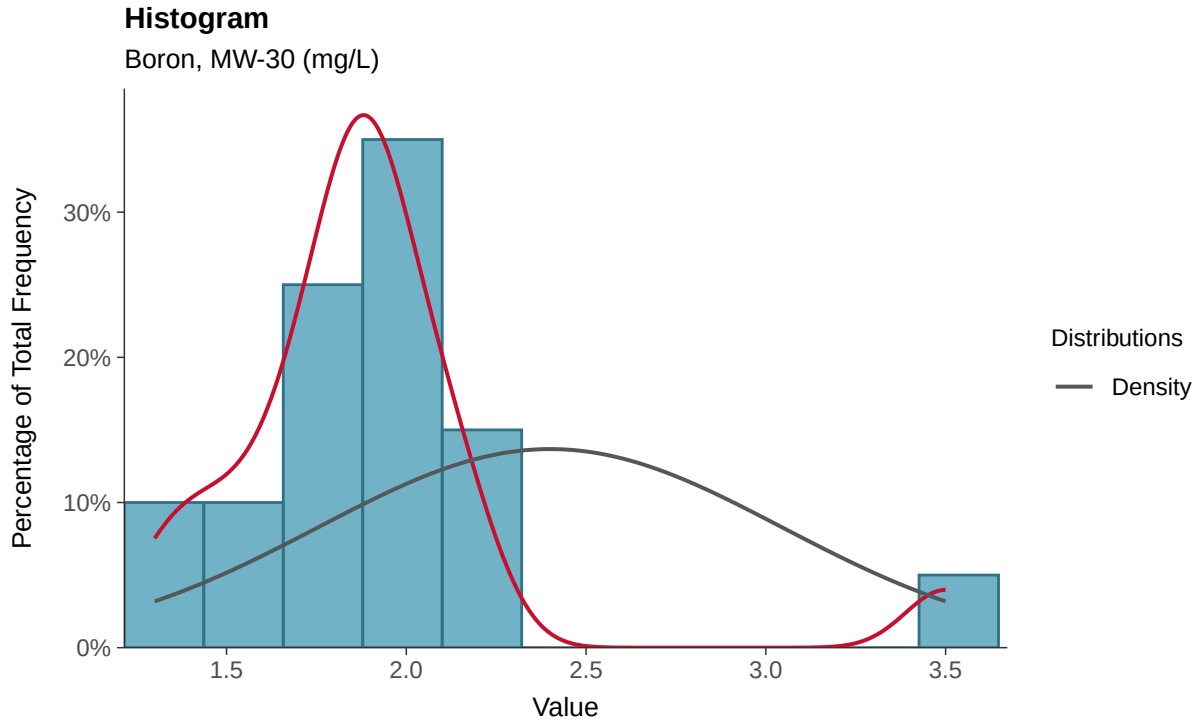
Zinc, MW-28 (mg/L)



Appendix III: Boron, MW-30

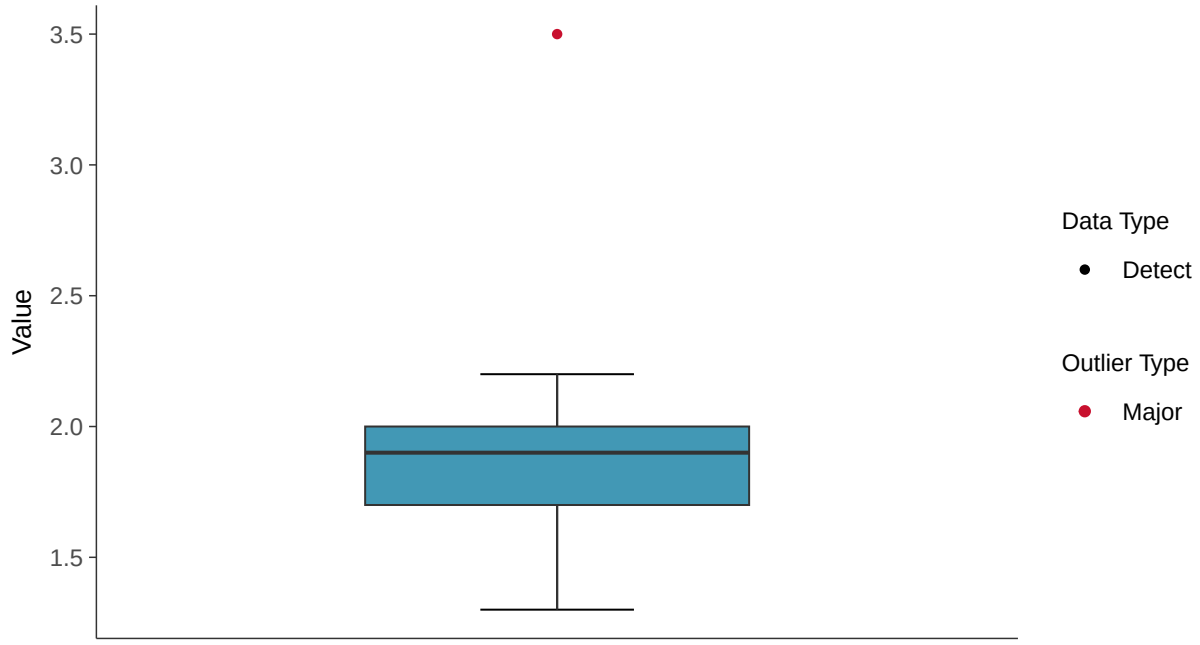
ID: 40_1_3_105





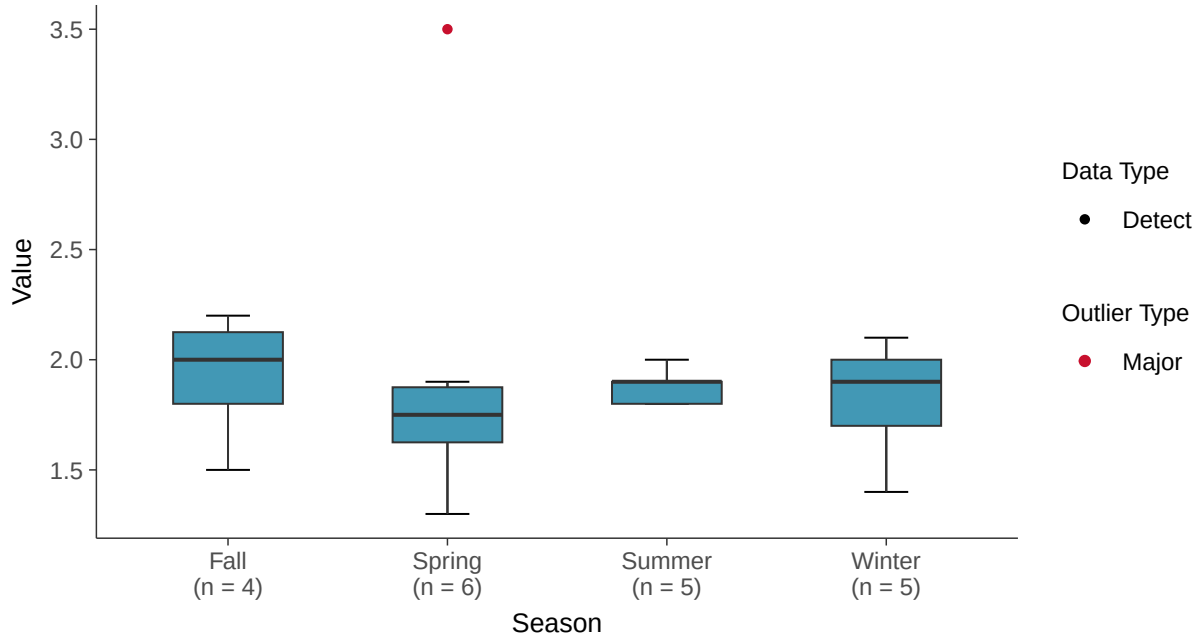
Boxplot

Boron, MW-30 (mg/L)



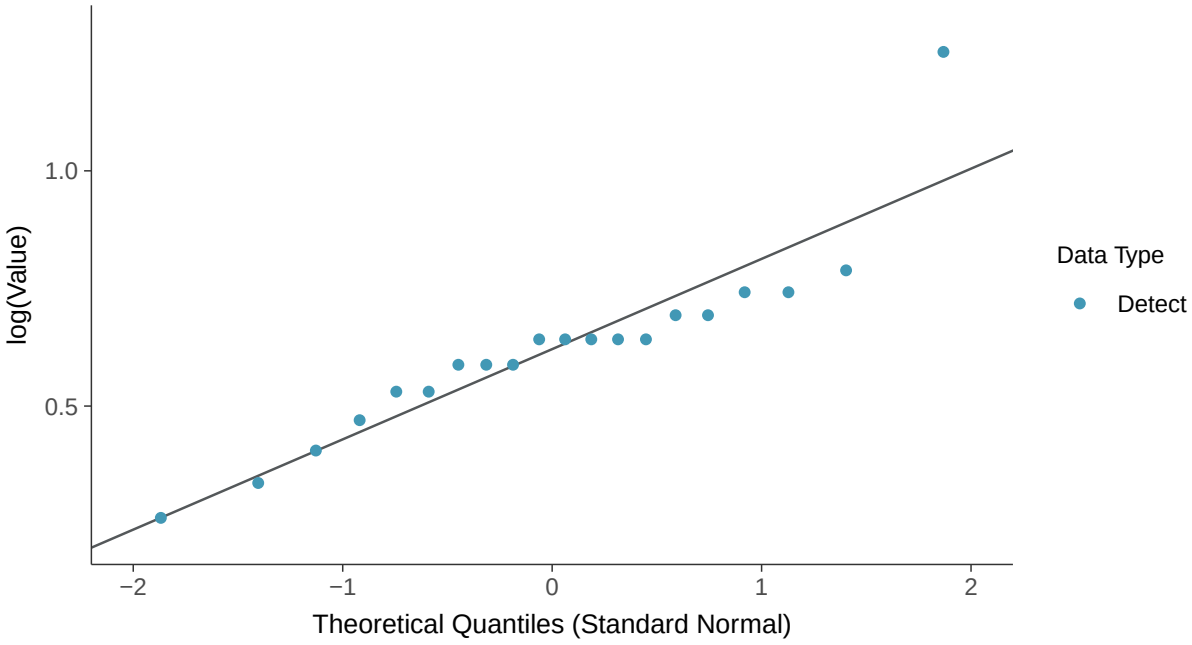
Boxplot by Season

Boron, MW-30 (mg/L)



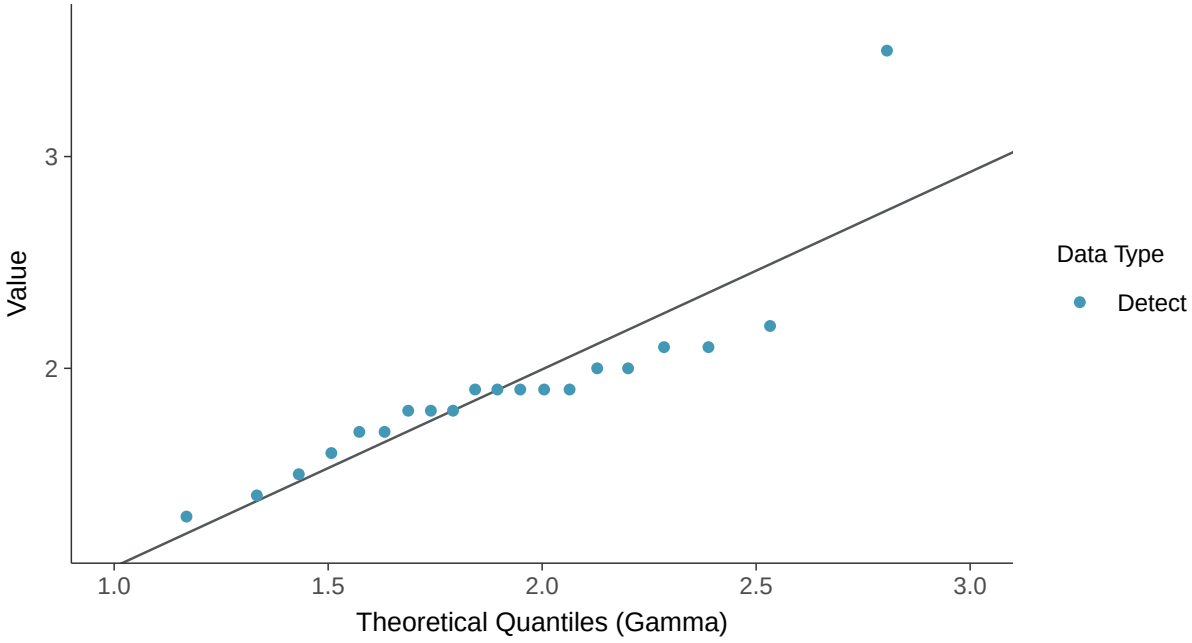
Lognormal Q-Q plot

Boron, MW-30 (mg/L)



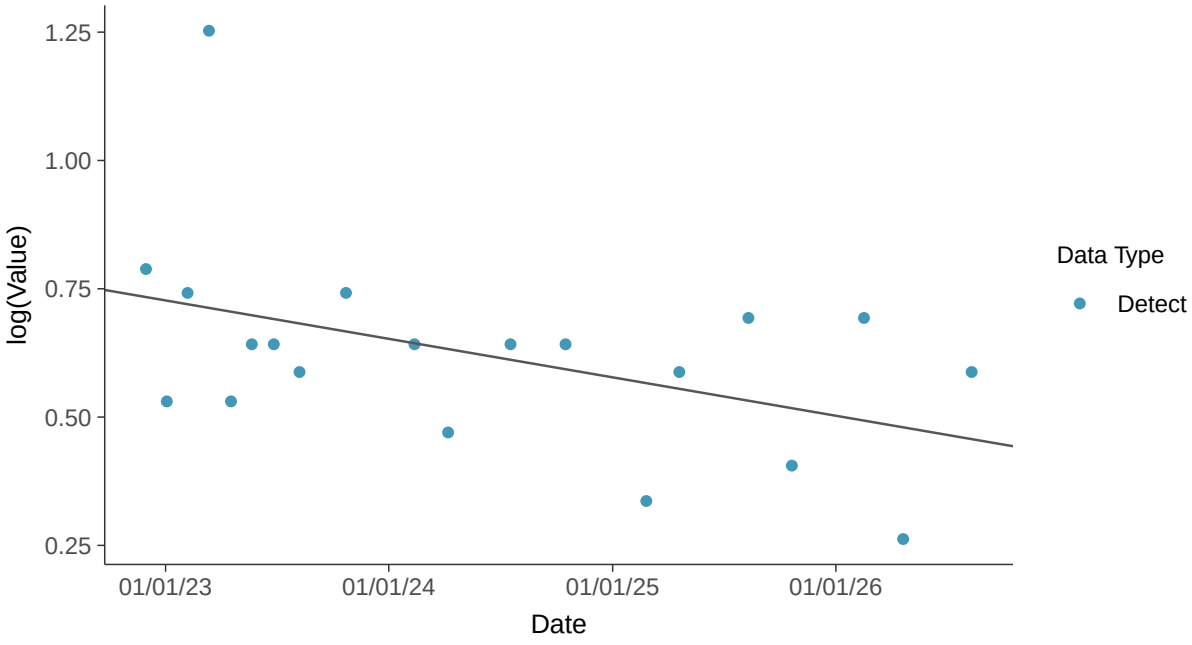
Gamma Q-Q plot

Boron, MW-30 (mg/L)



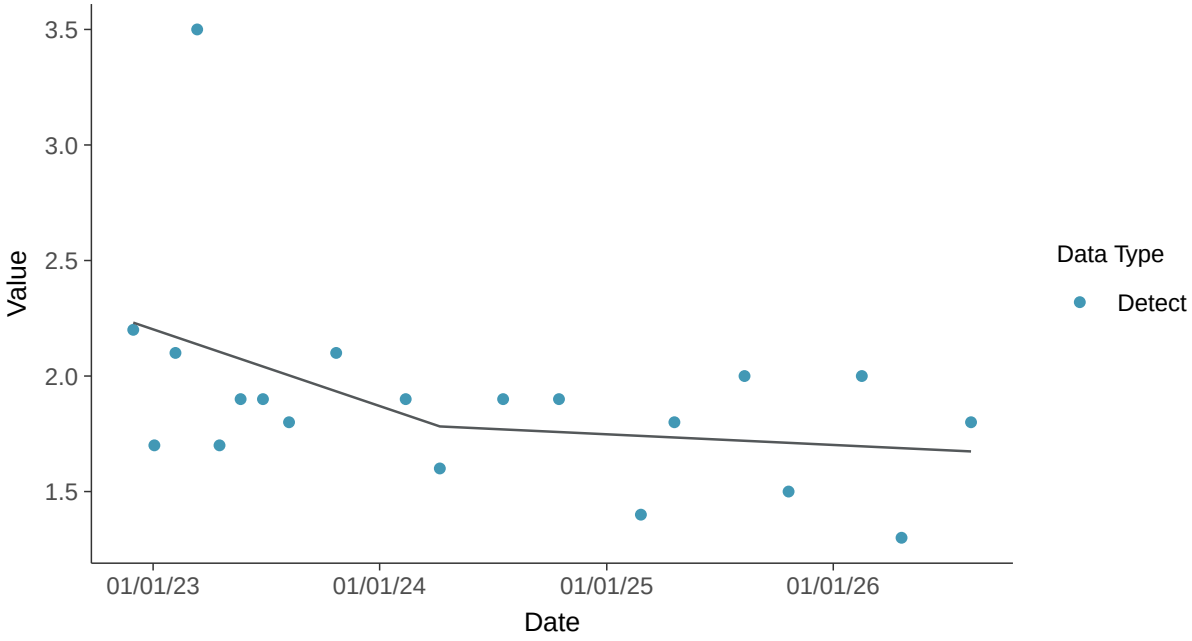
Trend Regression: Lognormal MLE

Boron, MW-30 (mg/L)



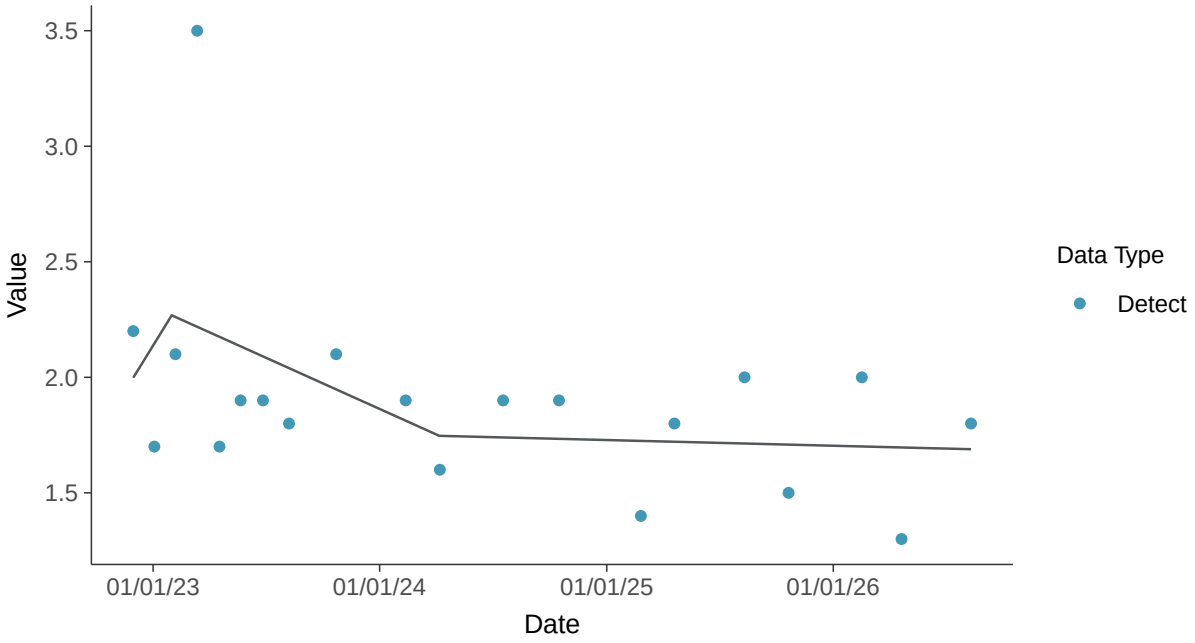
Trend Regression: Piecewise Linear-Linear

Boron, MW-30 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Boron, MW-30 (mg/L)

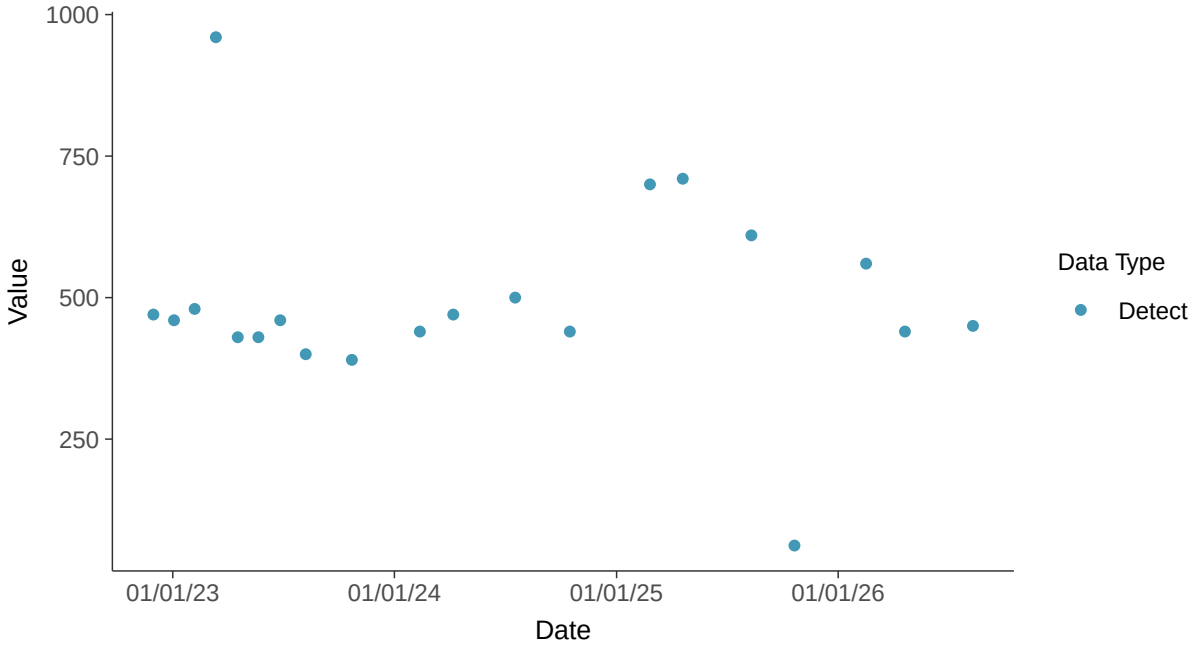


Appendix III: Calcium, MW-30

ID: 40_1_3_107

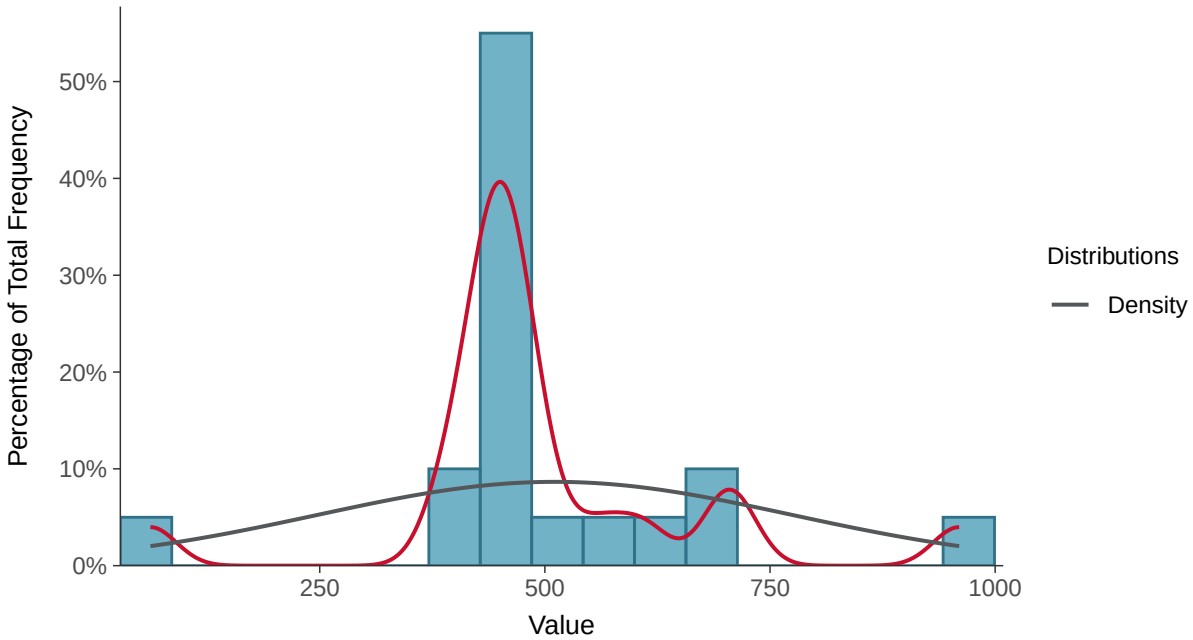
Scatter Plot

Calcium, MW-30 (mg/L)



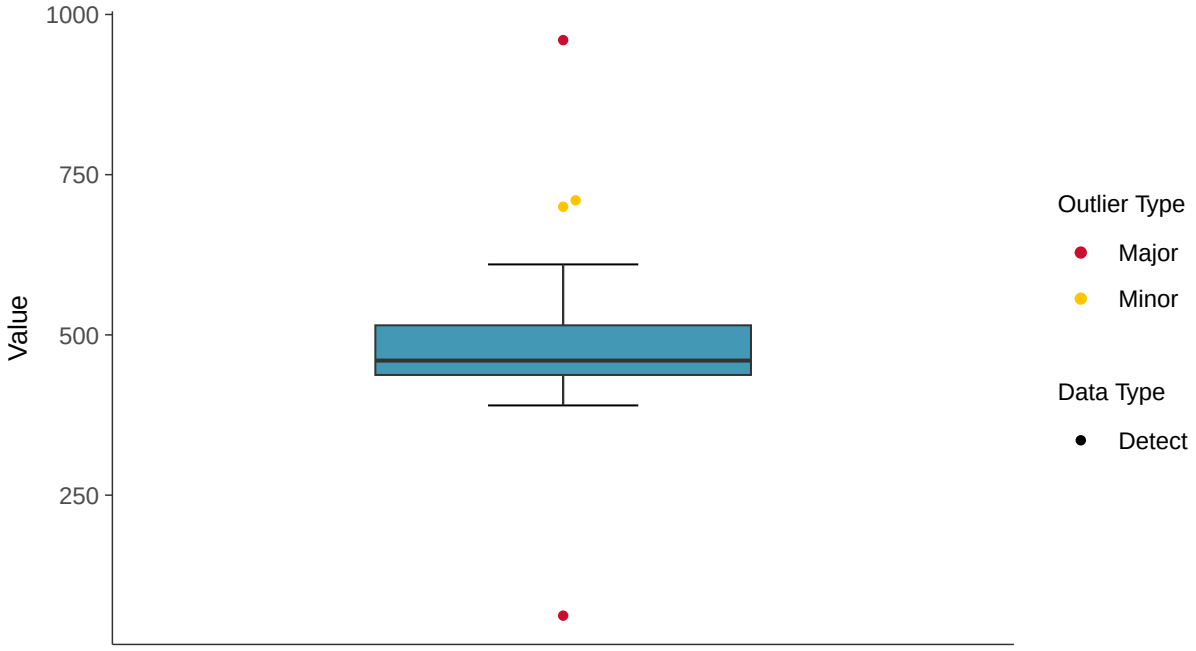
Histogram

Calcium, MW-30 (mg/L)



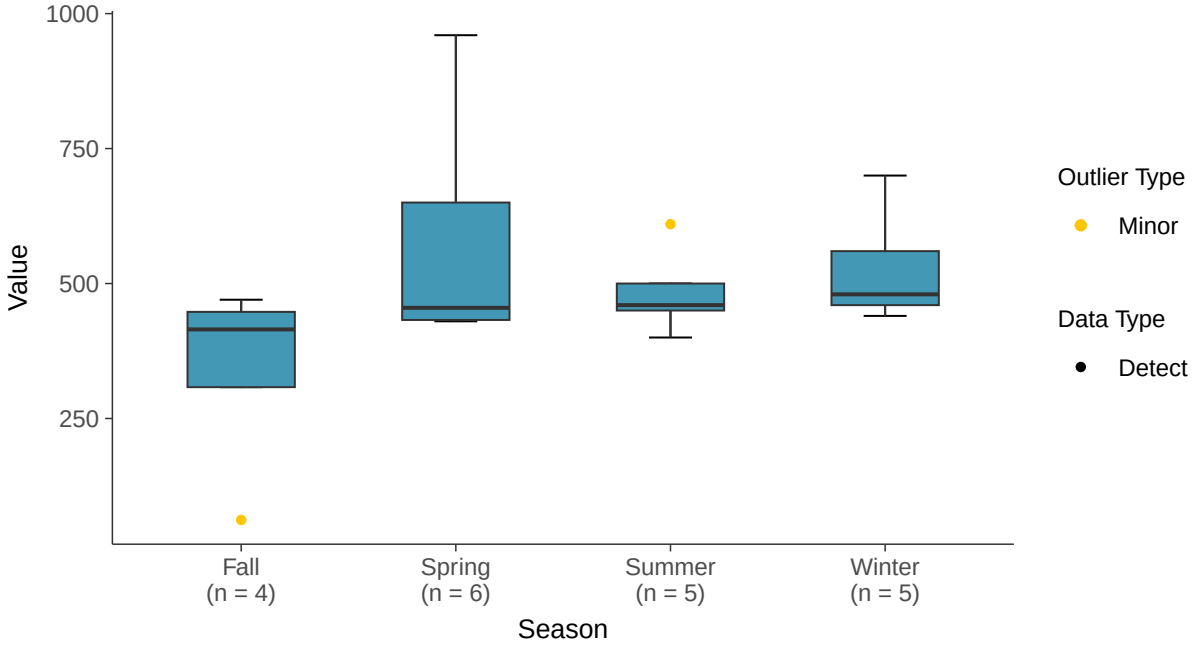
Boxplot

Calcium, MW-30 (mg/L)



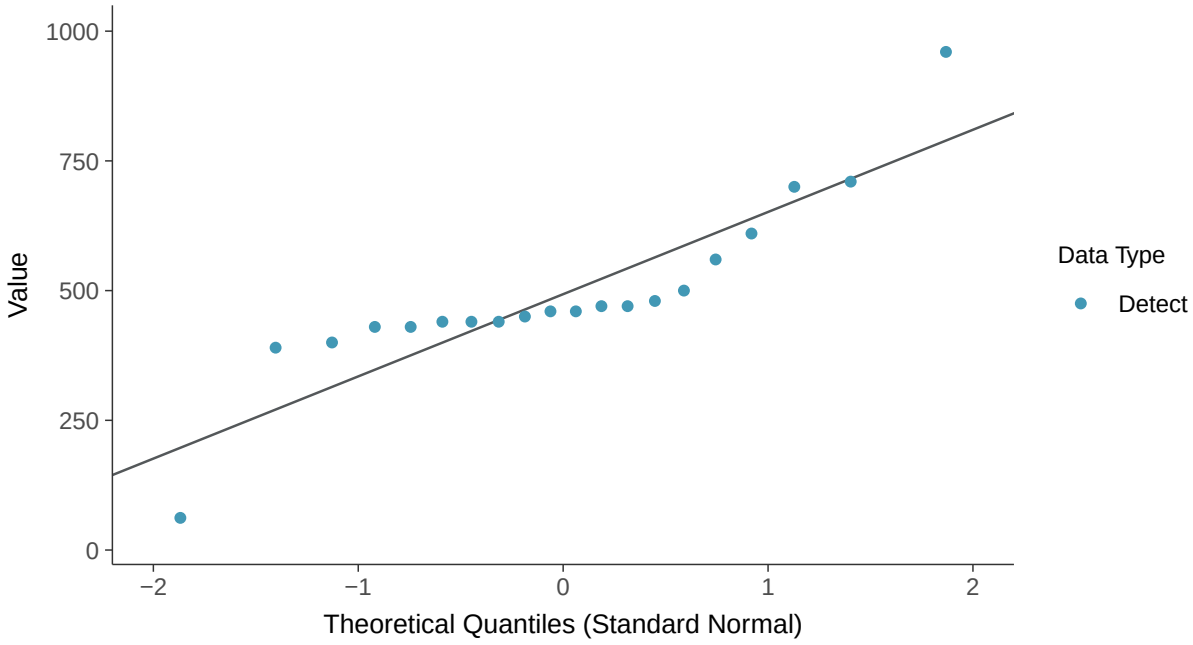
Boxplot by Season

Calcium, MW-30 (mg/L)



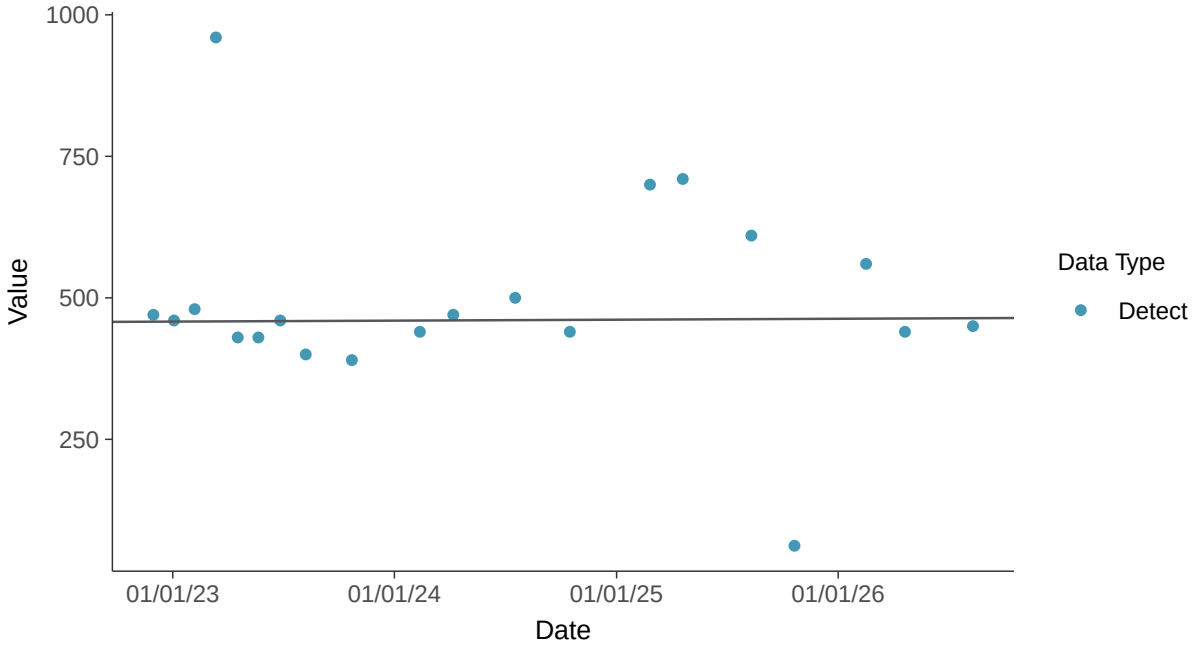
Normal Q-Q plot

Calcium, MW-30 (mg/L)



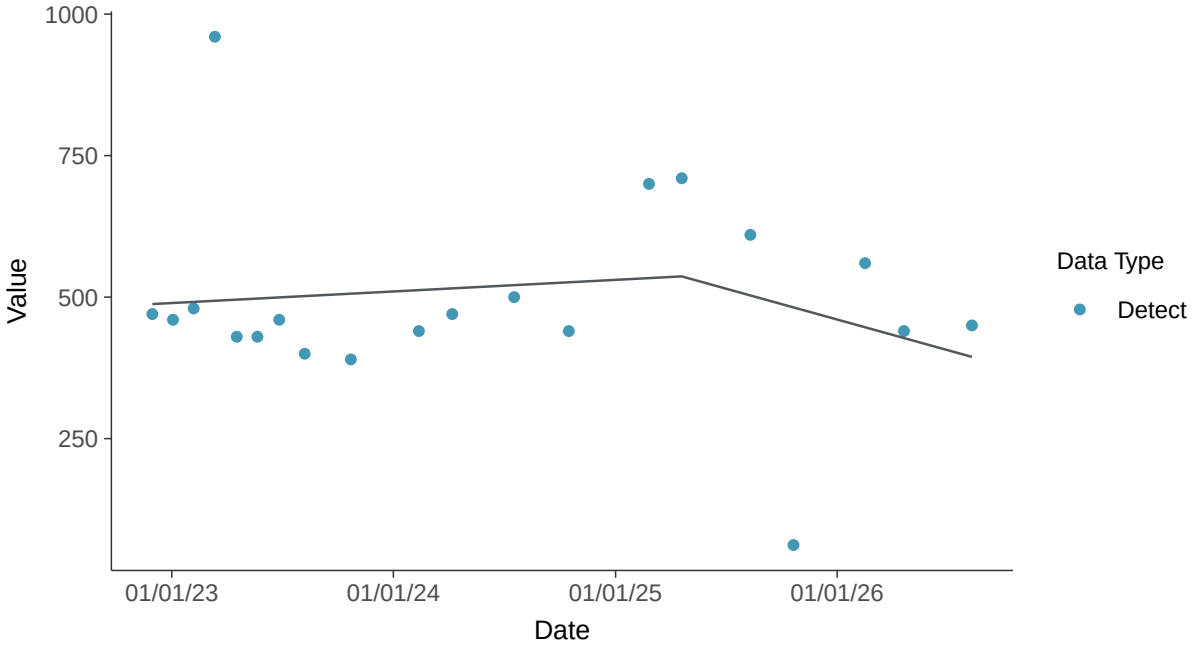
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Calcium, MW-30 (mg/L)



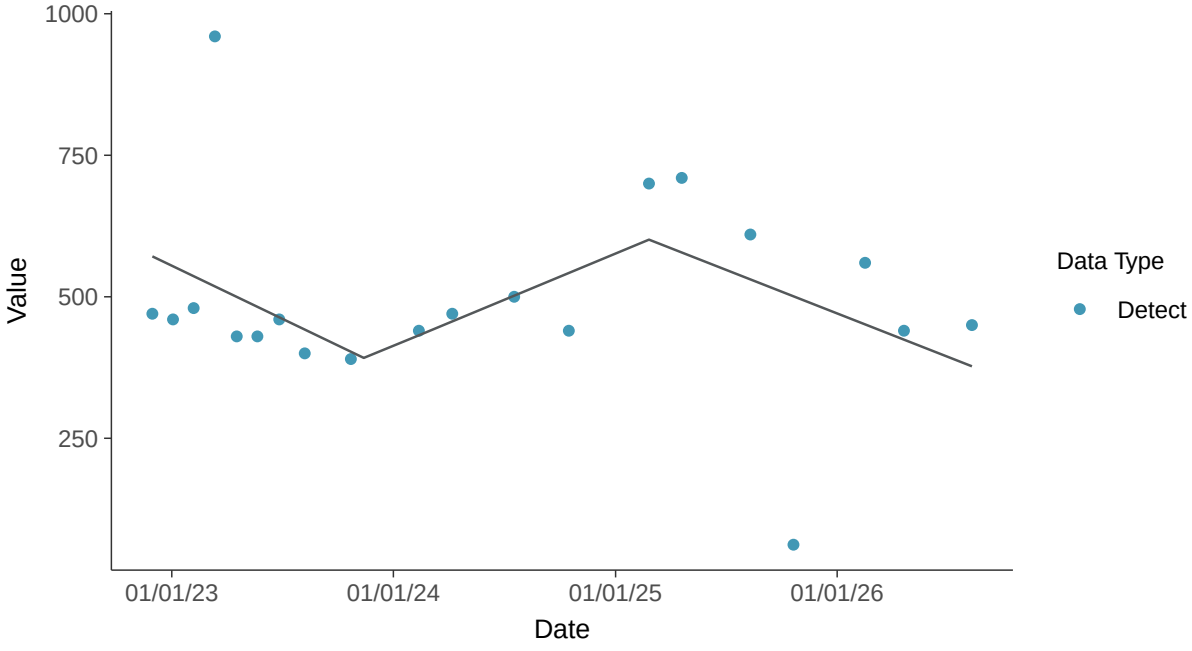
Trend Regression: Piecewise Linear-Linear

Calcium, MW-30 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Calcium, MW-30 (mg/L)

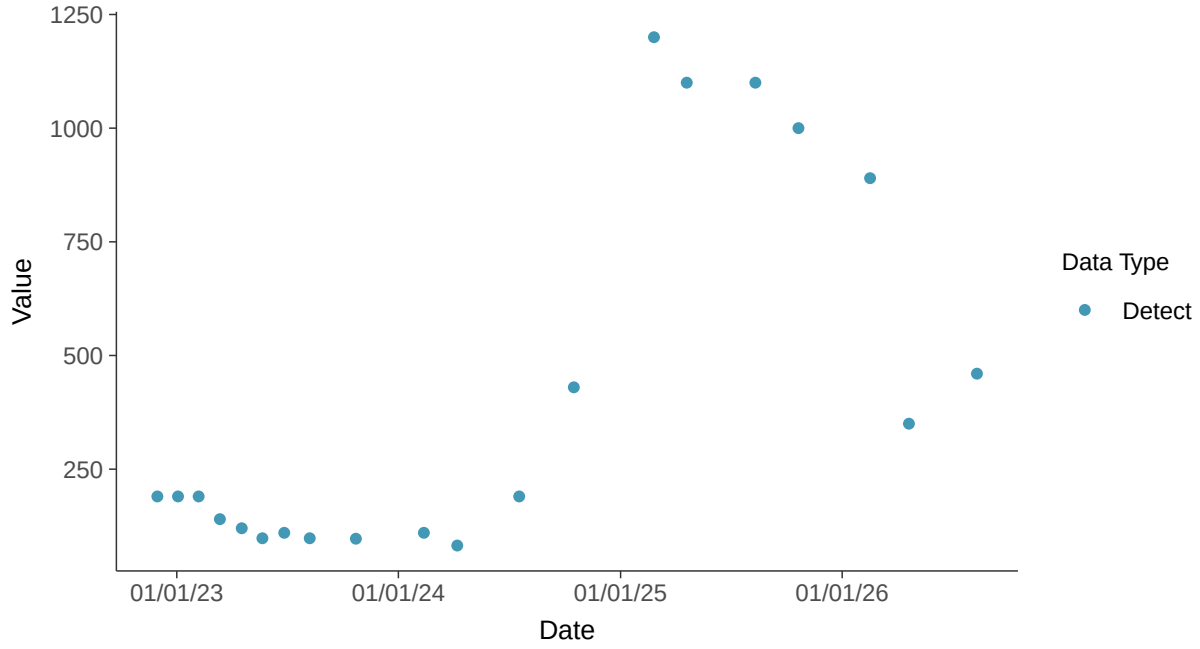


Appendix III: Chloride (as Cl), MW-30

ID: 40_1_3_108

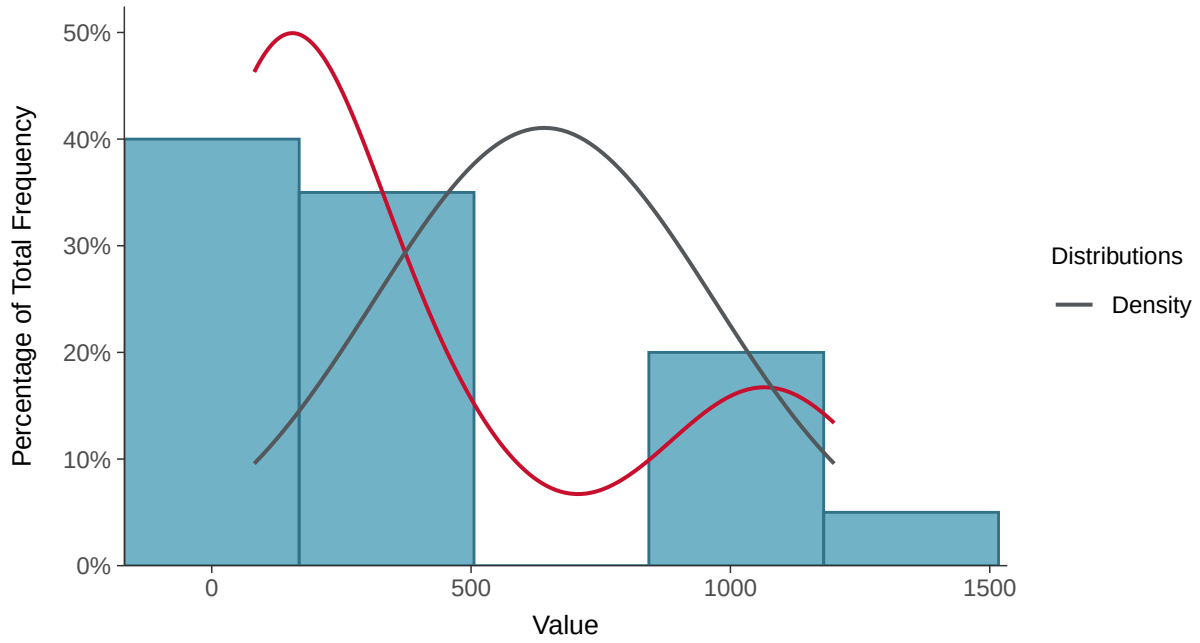
Scatter Plot

Chloride (as Cl), MW-30 (mg/L)



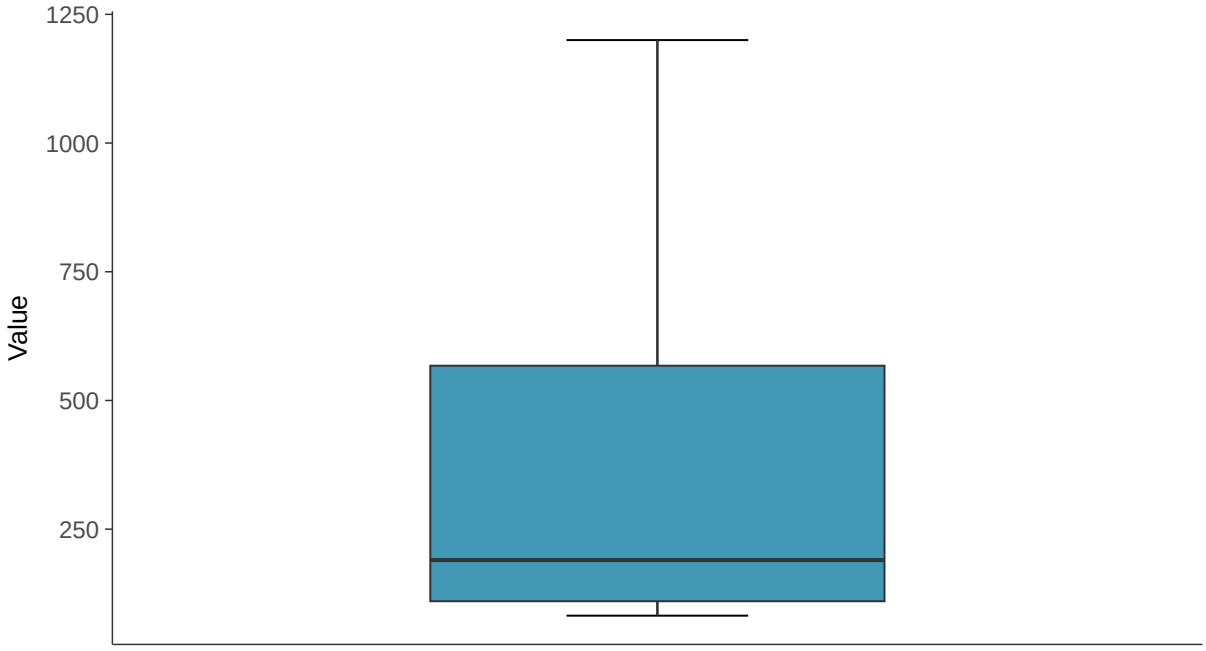
Histogram

Chloride (as Cl), MW-30 (mg/L)



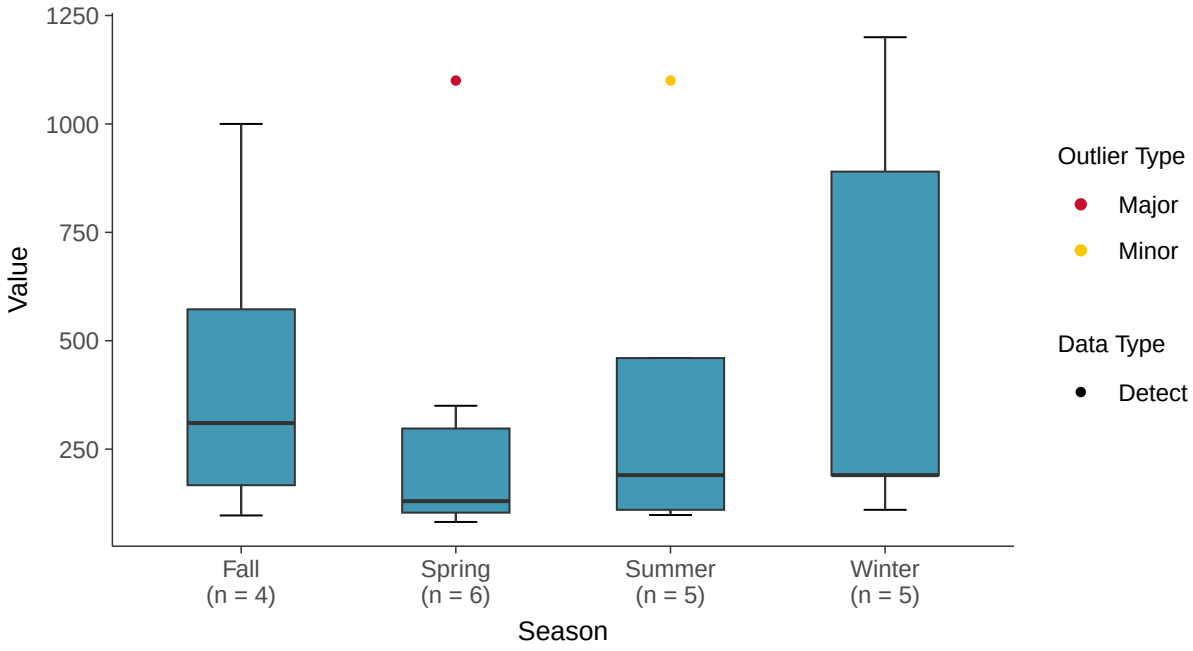
Boxplot

Chloride (as Cl), MW-30 (mg/L)



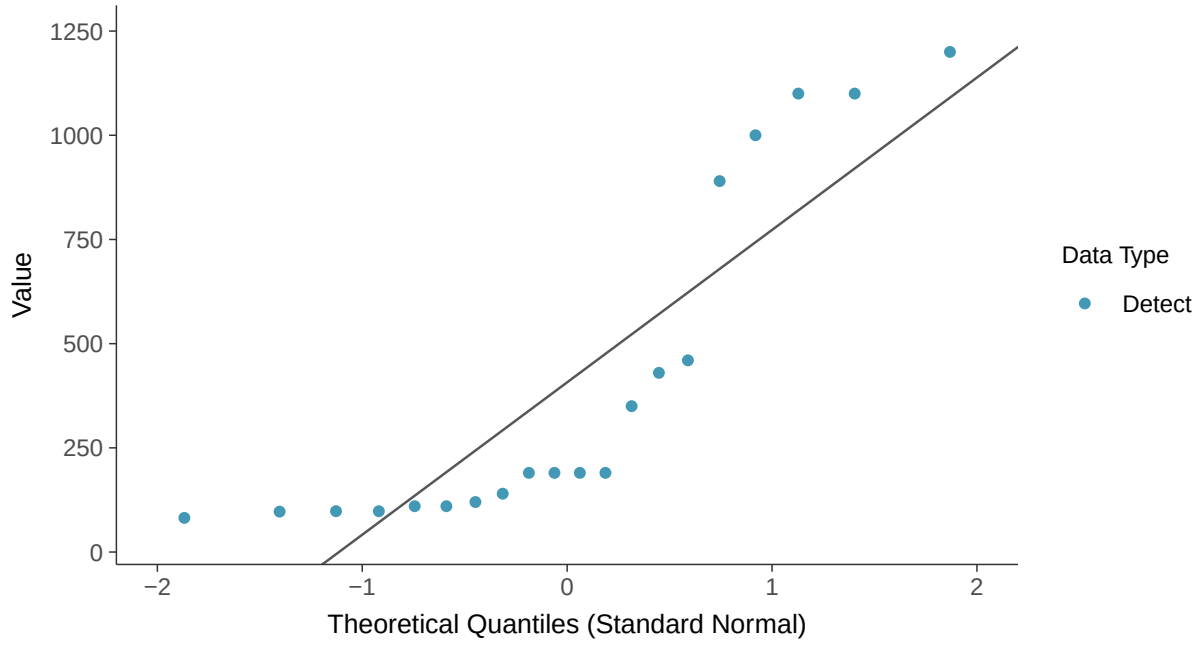
Boxplot by Season

Chloride (as Cl), MW-30 (mg/L)



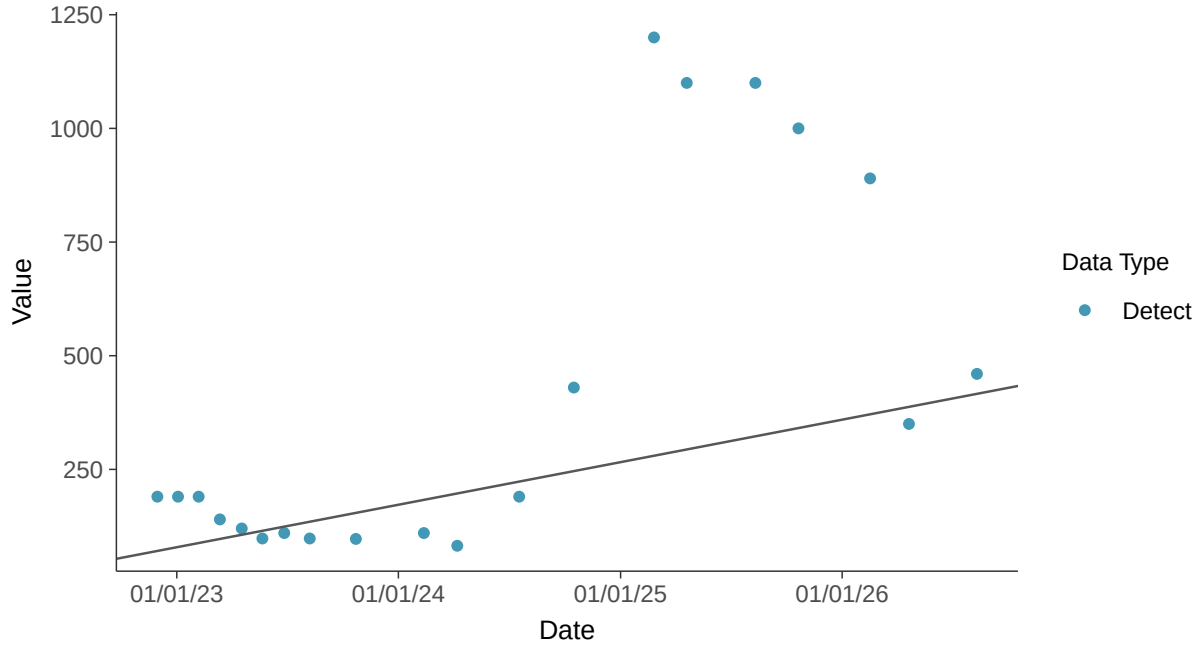
Normal Q-Q plot

Chloride (as Cl), MW-30 (mg/L)



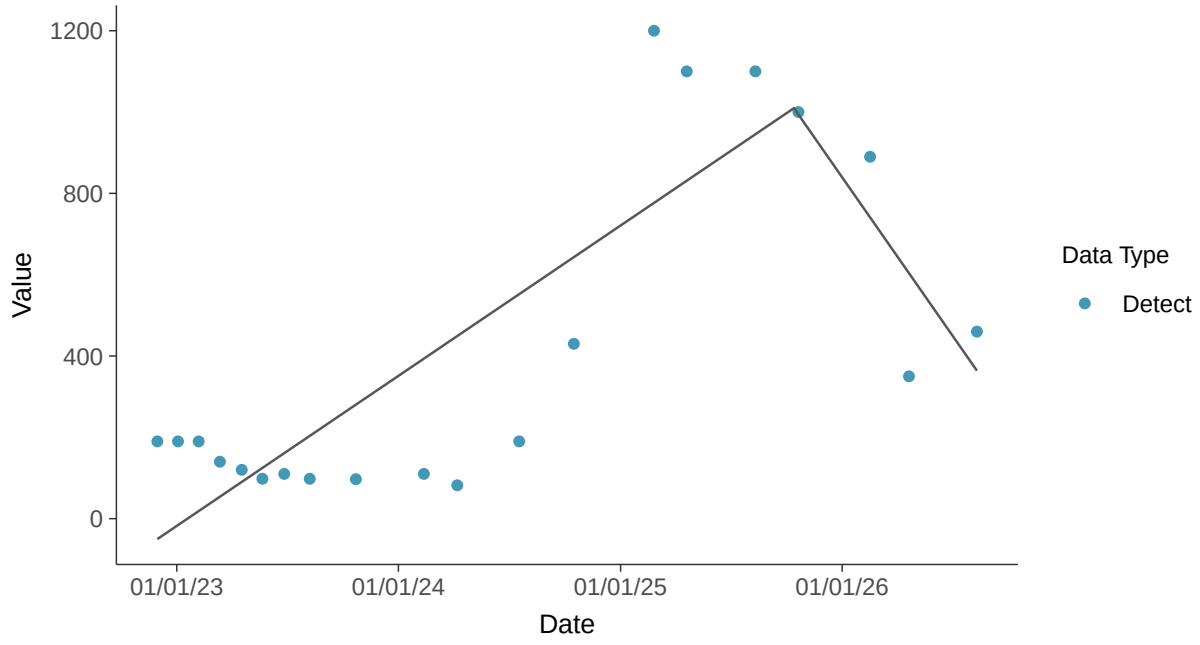
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Chloride (as Cl), MW-30 (mg/L)



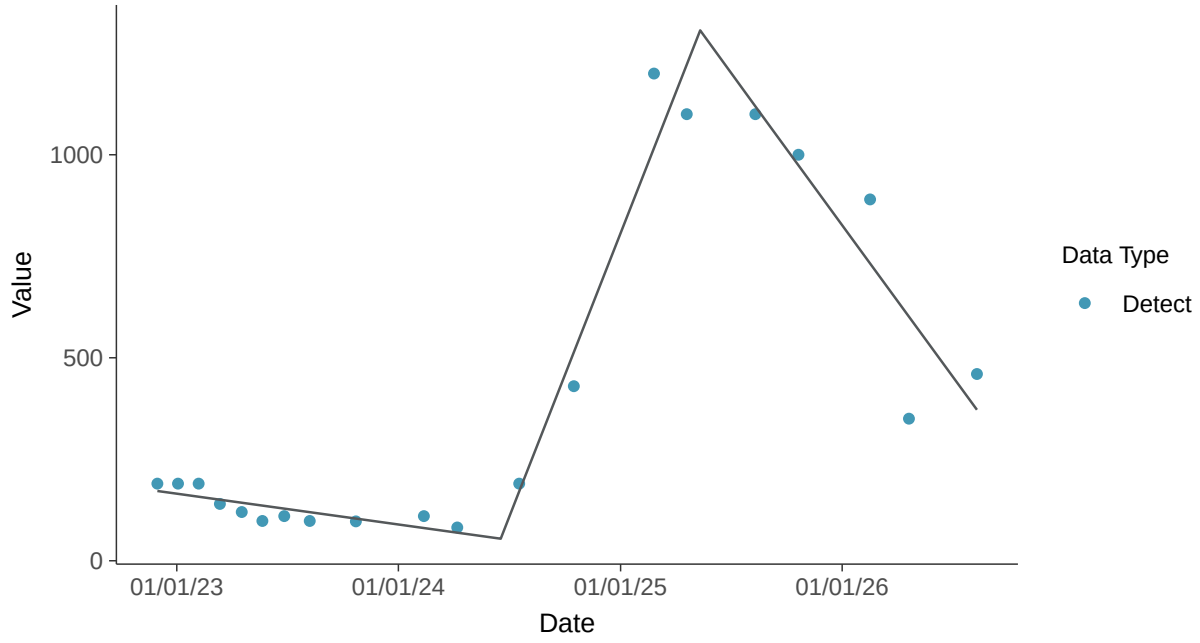
Trend Regression: Piecewise Linear-Linear

Chloride (as Cl), MW-30 (mg/L)



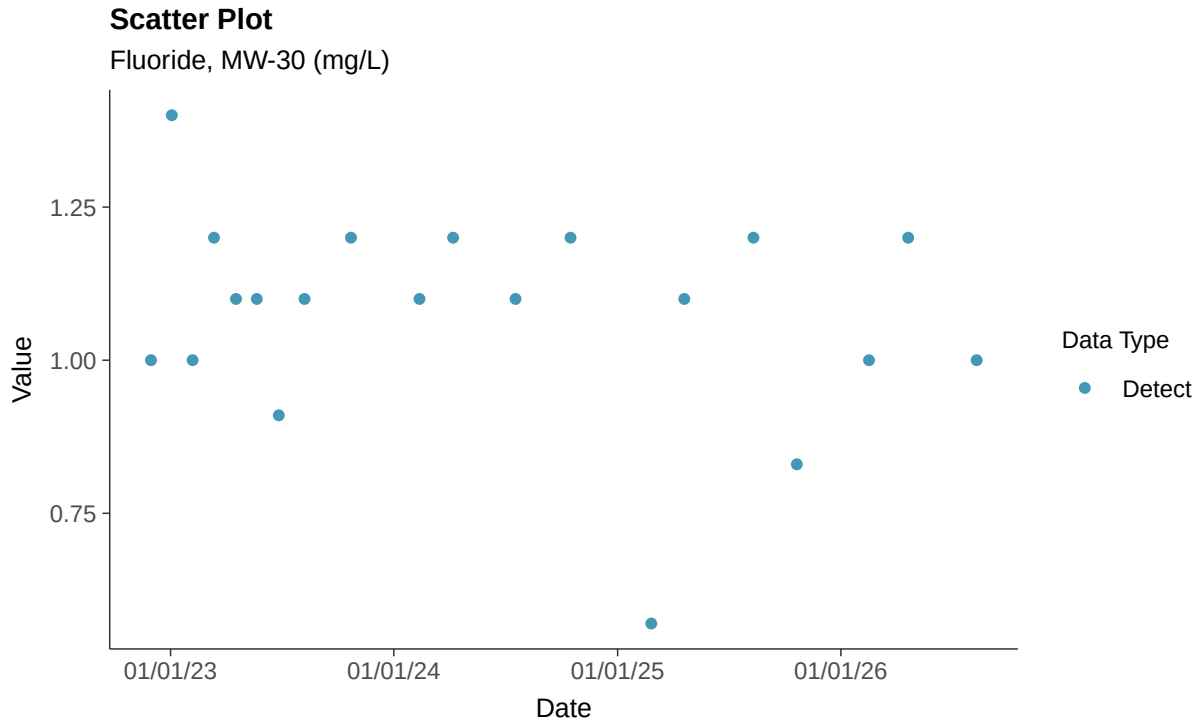
Trend Regression: Piecewise Linear-Linear-Linear

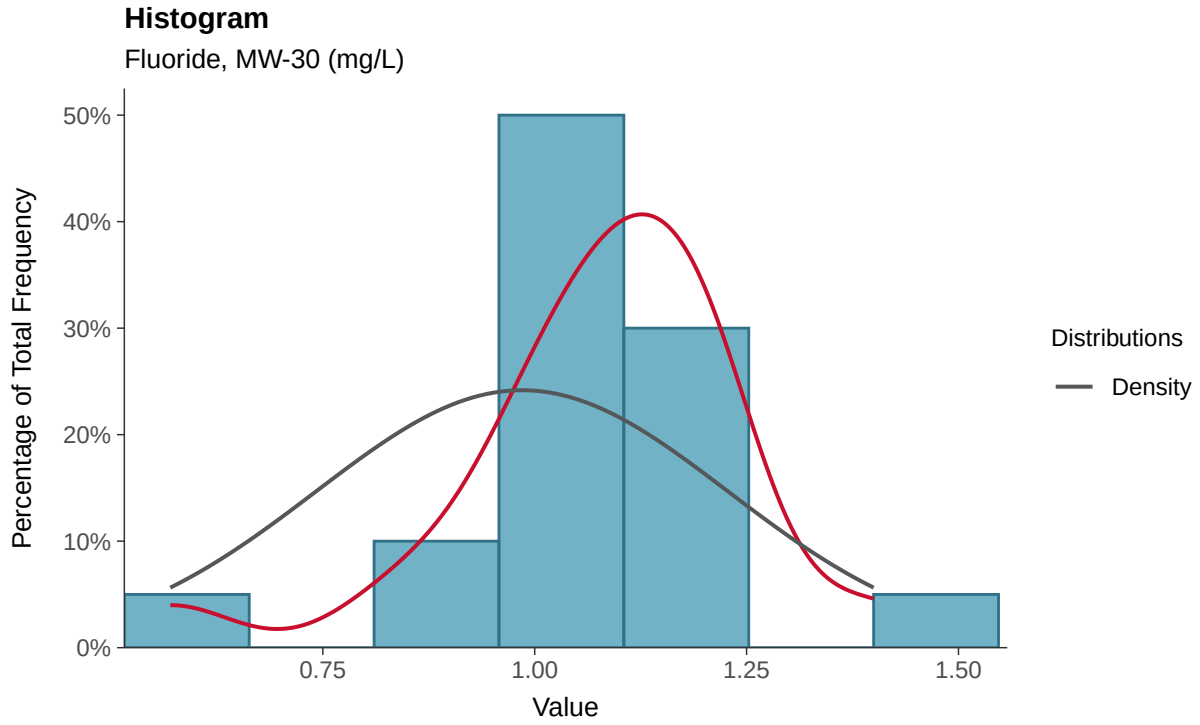
Chloride (as Cl), MW-30 (mg/L)



Appendix III: Fluoride, MW-30

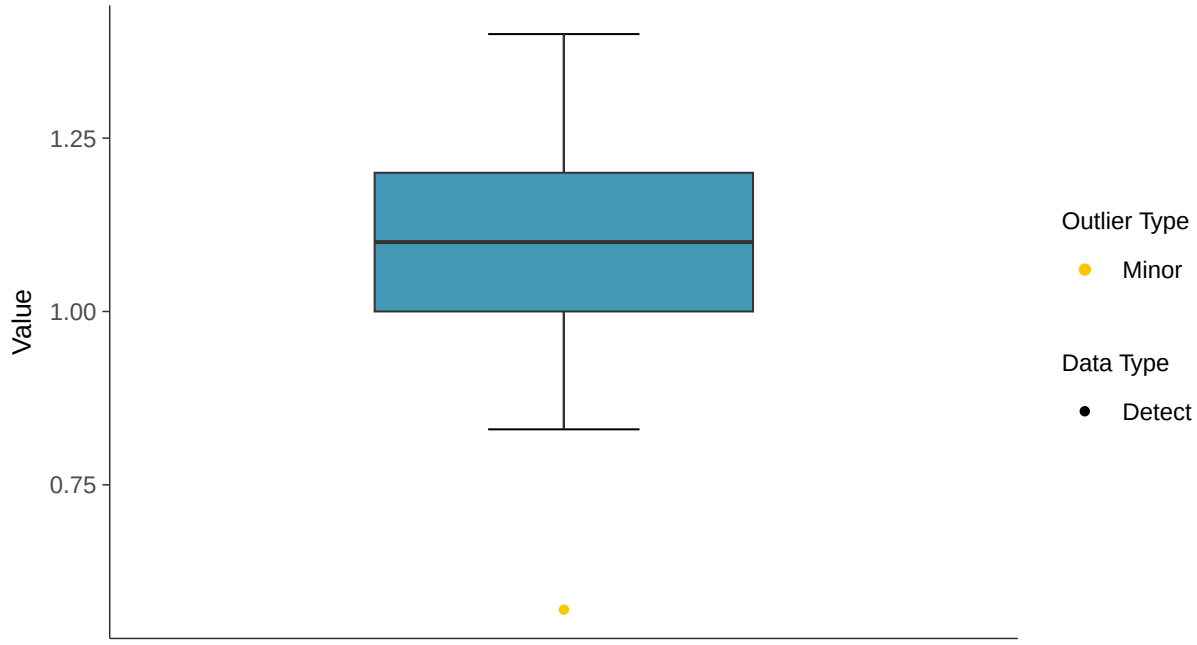
ID: 40_1_3_112





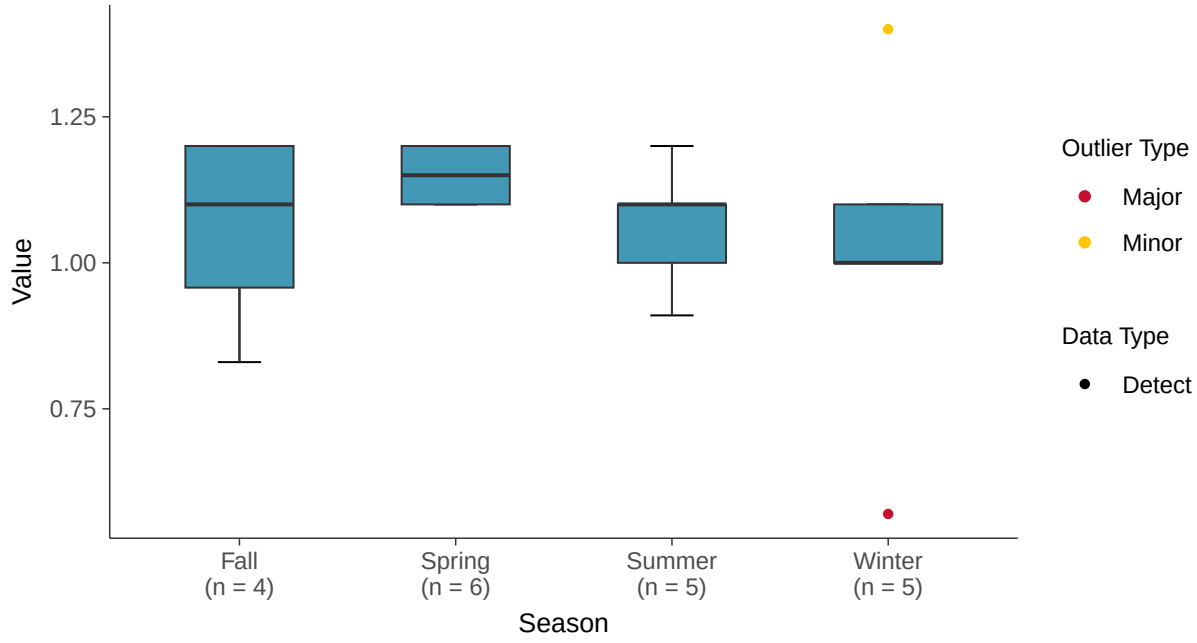
Boxplot

Fluoride, MW-30 (mg/L)



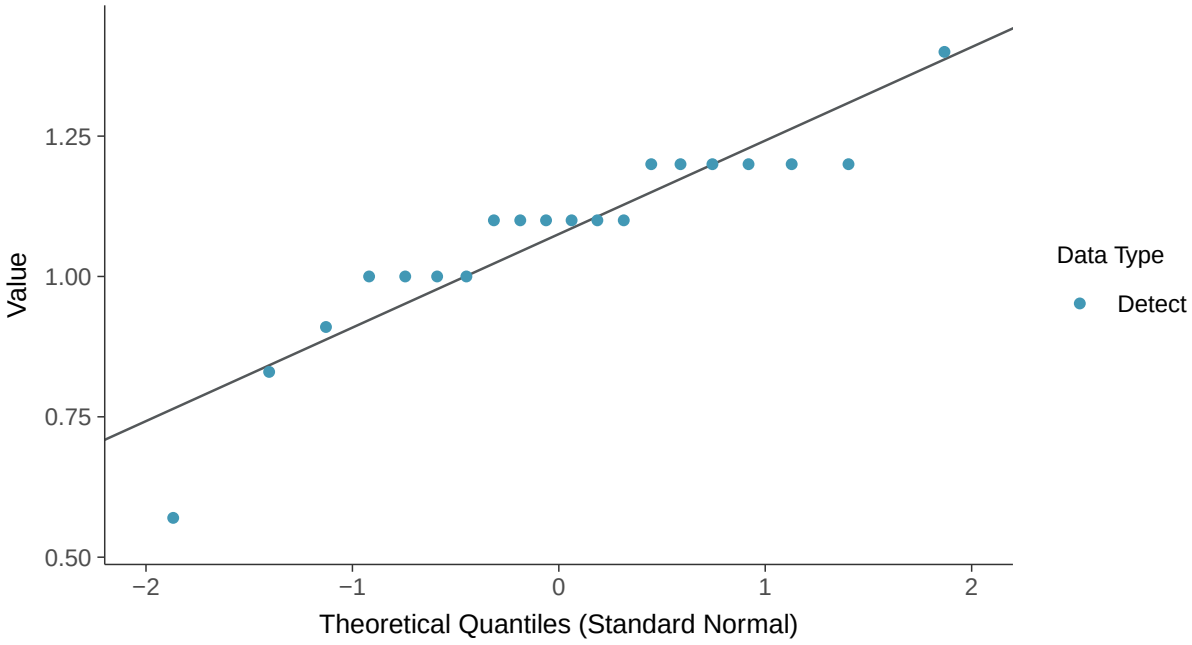
Boxplot by Season

Fluoride, MW-30 (mg/L)



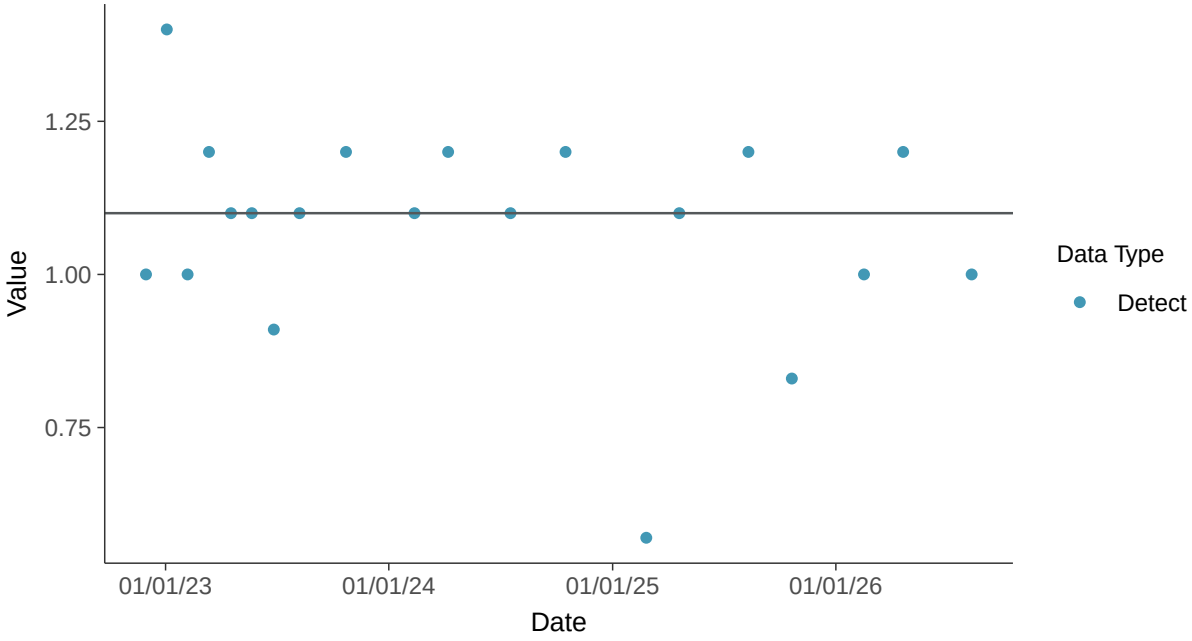
Normal Q-Q plot

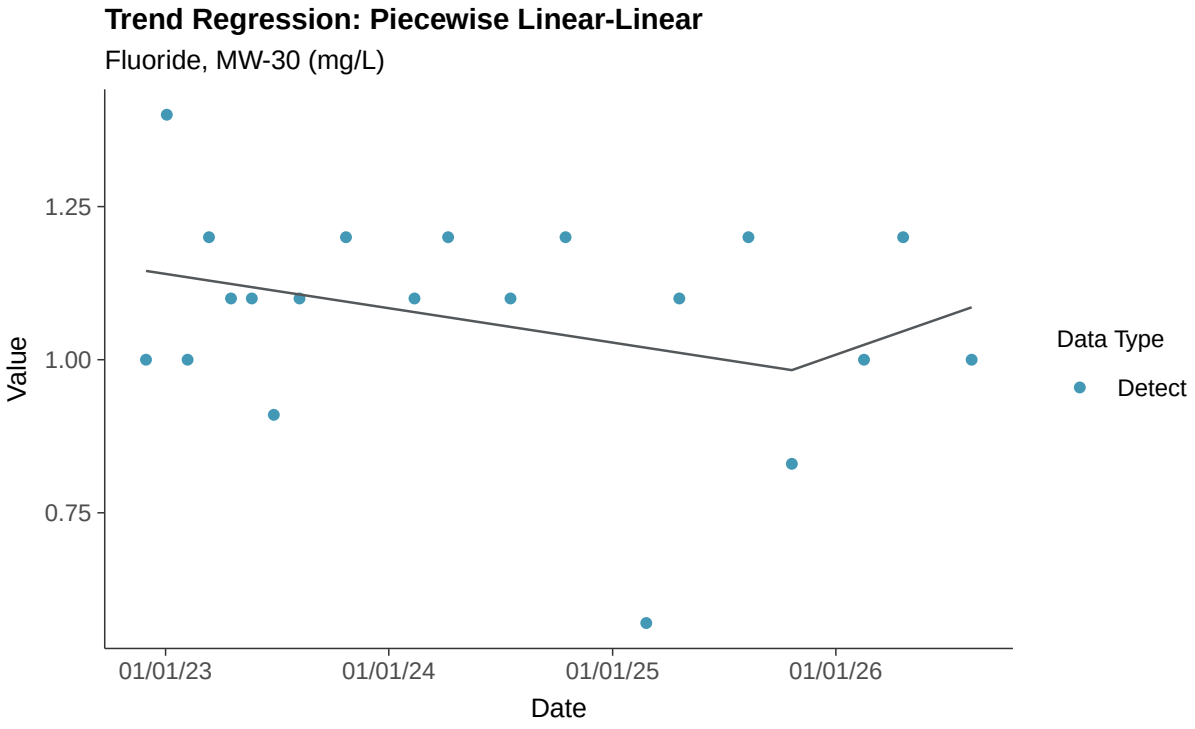
Fluoride, MW-30 (mg/L)



Trend Regression: Mann-Kendall/Theil-Sen Estimate

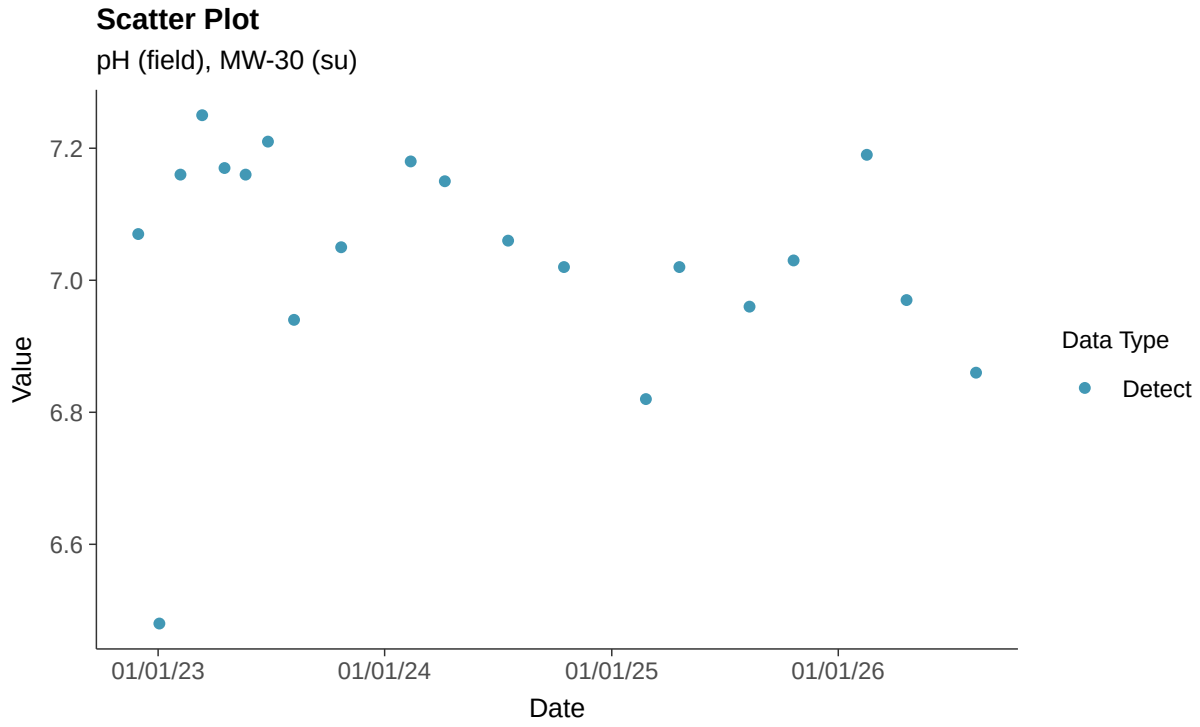
Fluoride, MW-30 (mg/L)

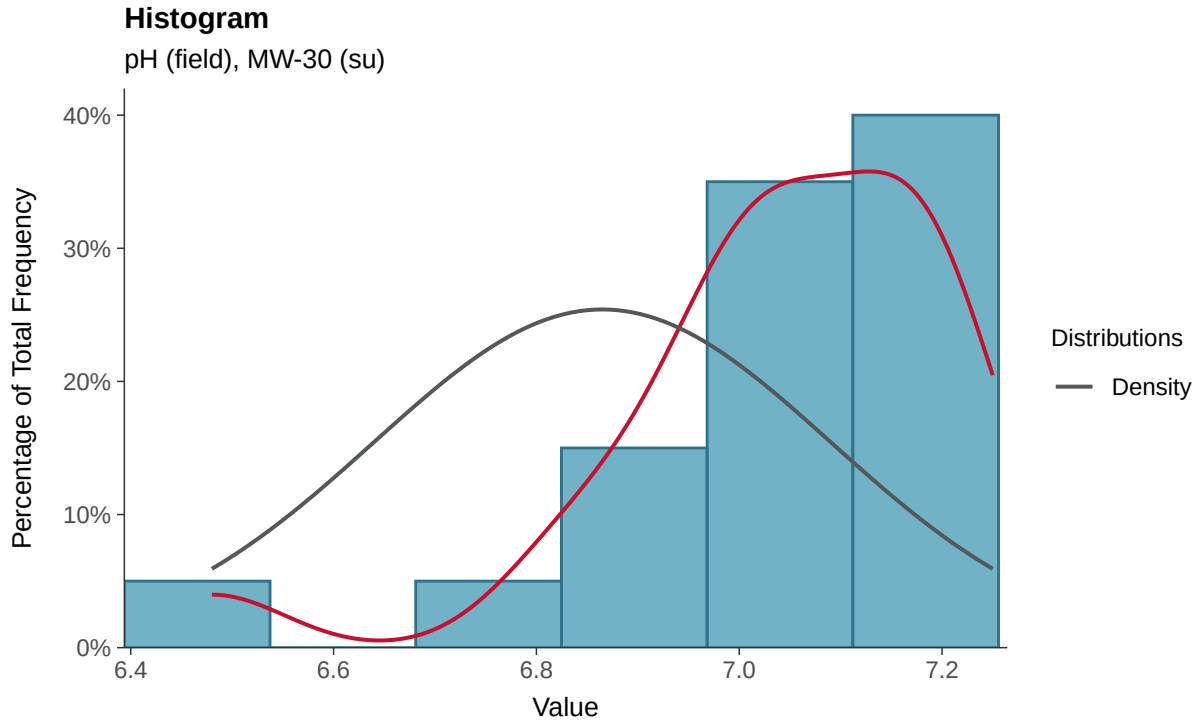



Trend Regression: Piecewise Linear-Linear
Fluoride, MW-30 (mg/L)
Value
1.25
1.00
0.75
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect

Appendix III: pH (field), MW-30

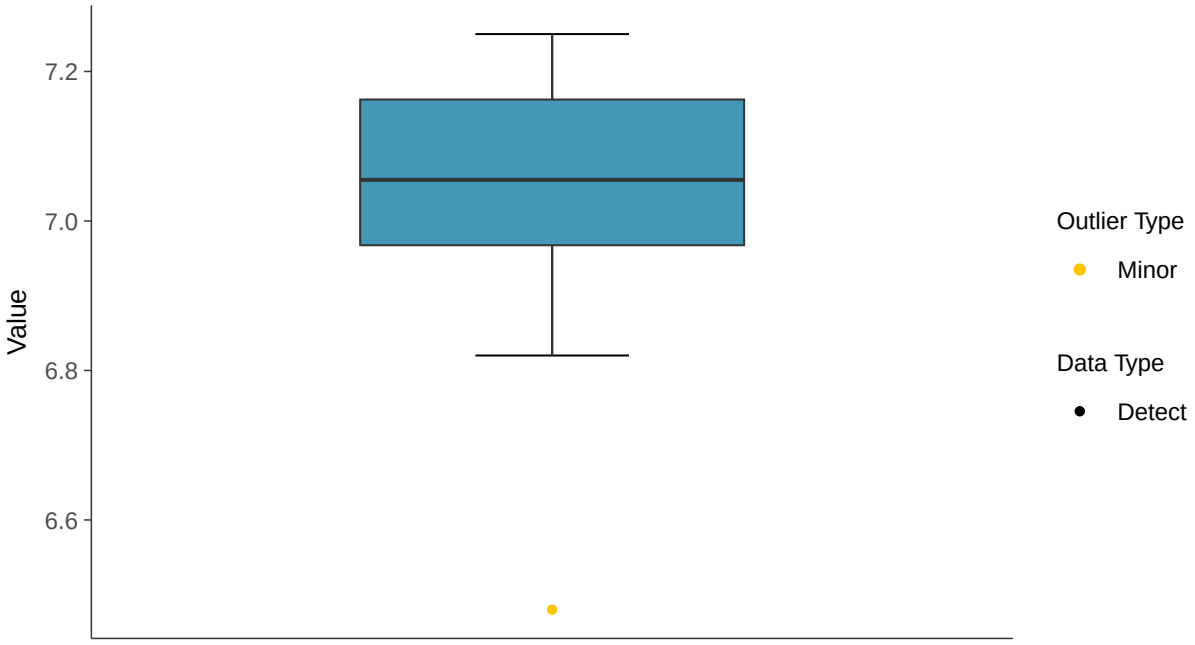
ID: 40_1_3_120





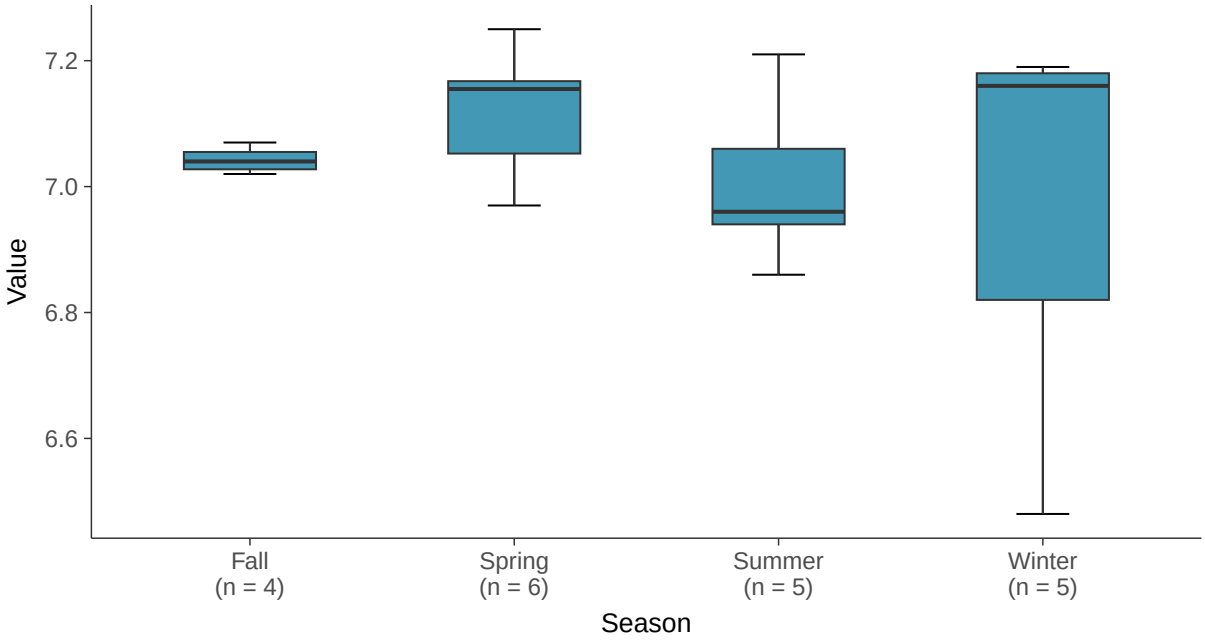
Boxplot

pH (field), MW-30 (su)



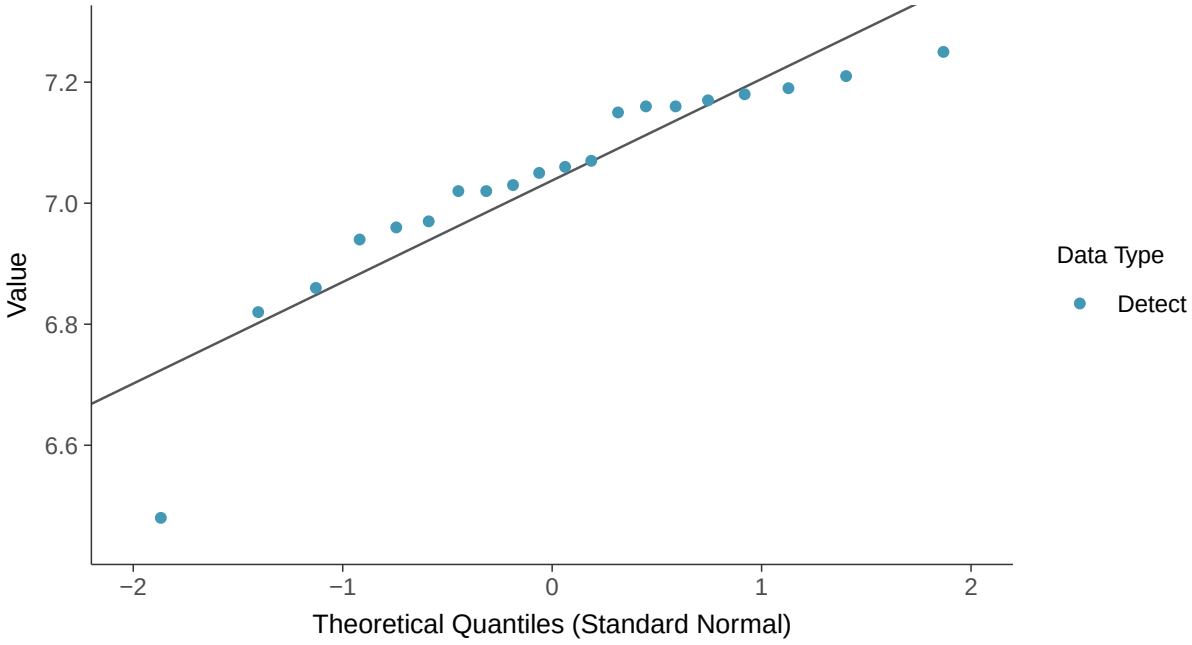
Boxplot by Season

pH (field), MW-30 (su)



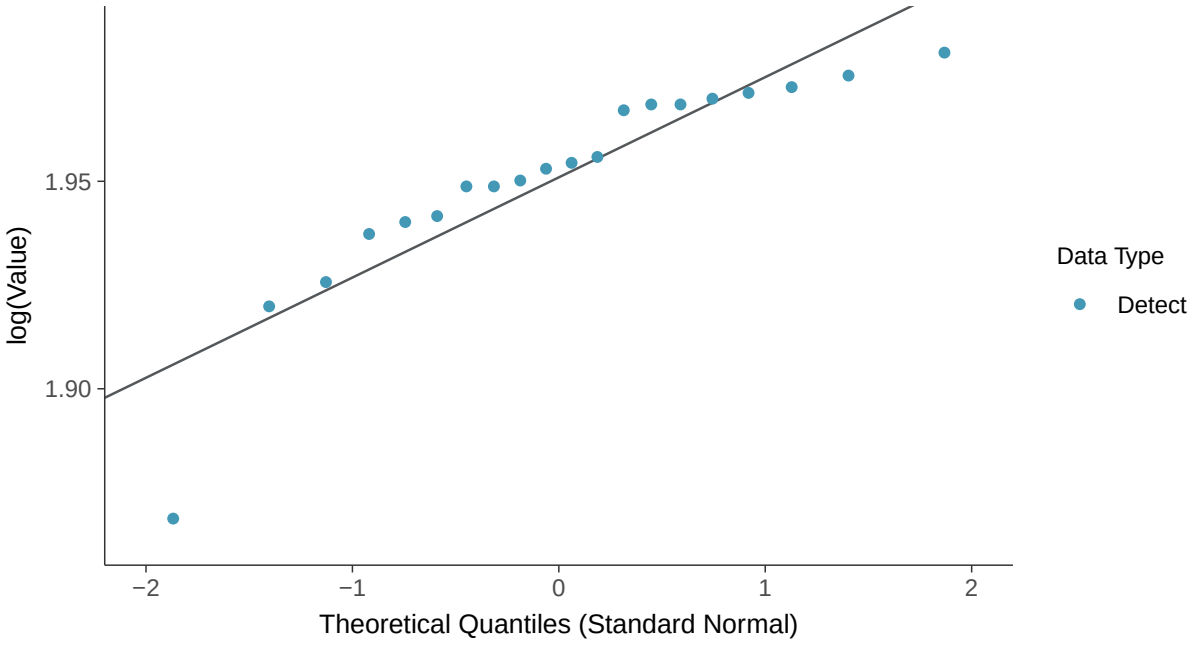
Normal Q-Q plot

pH (field), MW-30 (su)



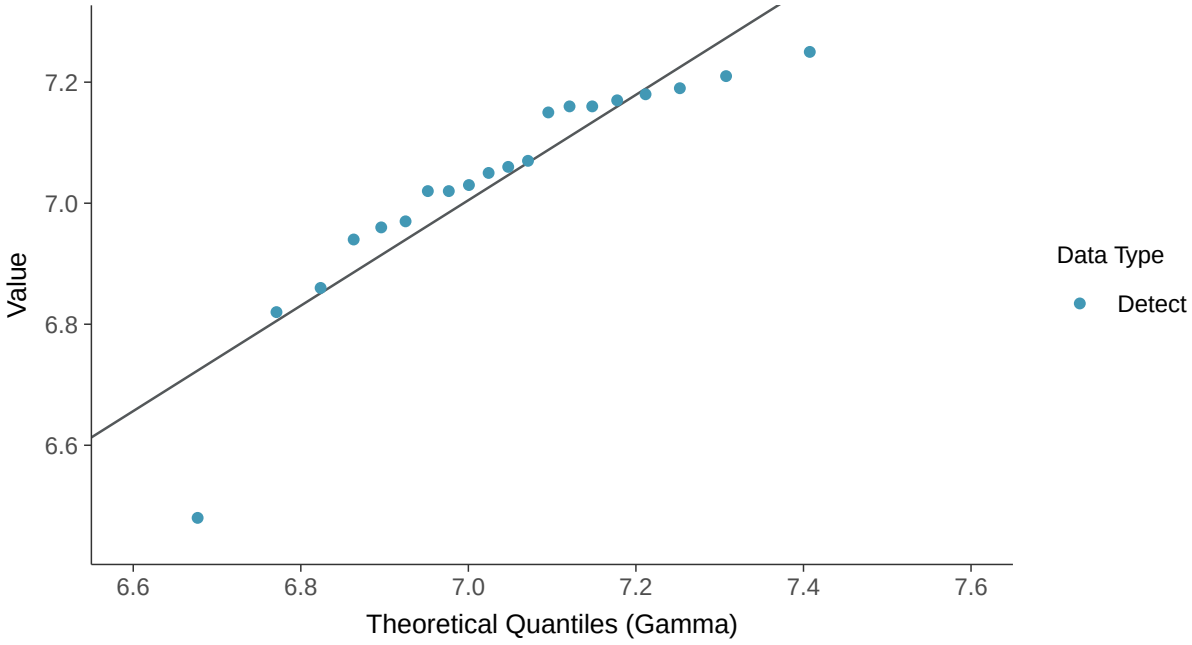
Lognormal Q-Q plot

pH (field), MW-30 (su)



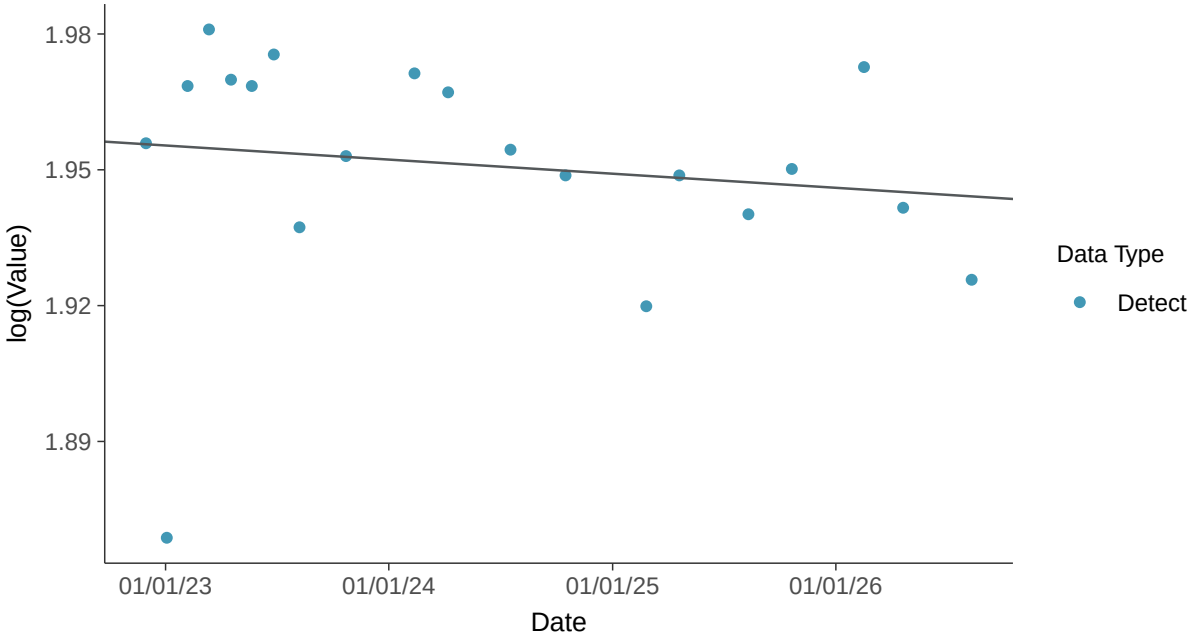
Gamma Q-Q plot

pH (field), MW-30 (su)



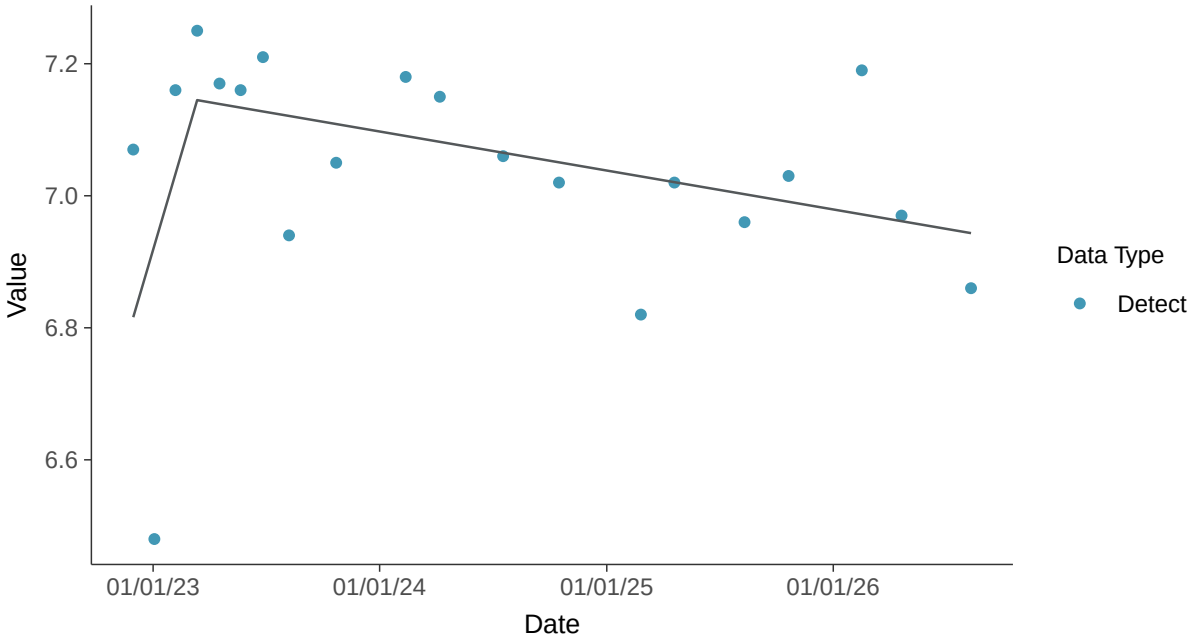
Trend Regression: Lognormal MLE

pH (field), MW-30 (su)



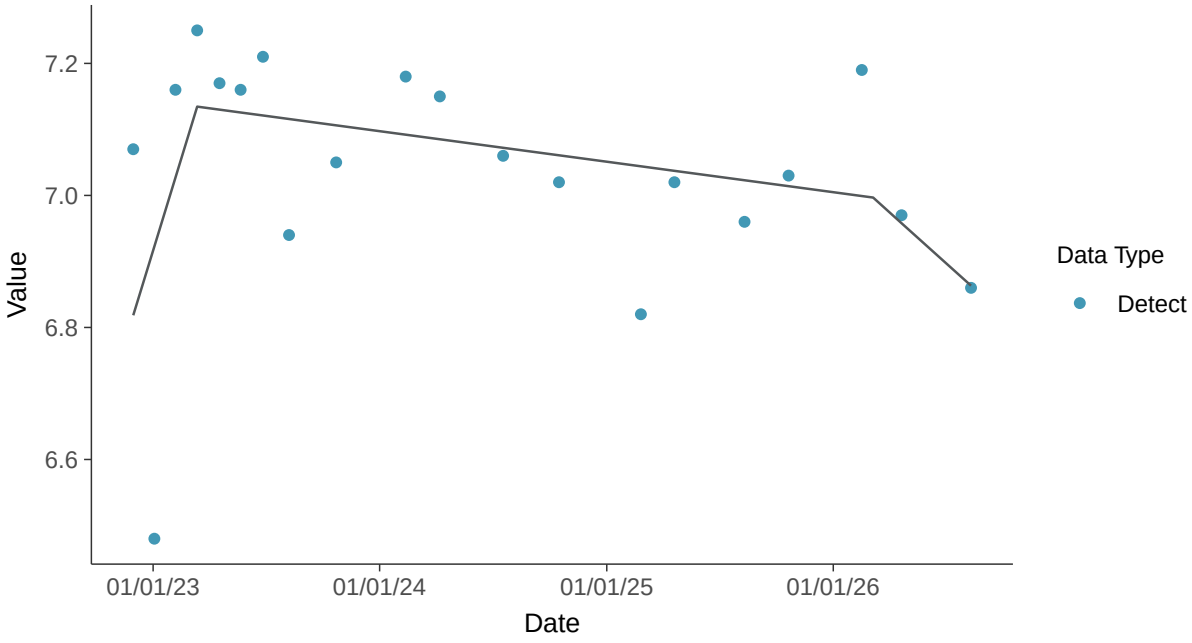
Trend Regression: Piecewise Linear-Linear

pH (field), MW-30 (su)



Trend Regression: Piecewise Linear-Linear-Linear

pH (field), MW-30 (su)

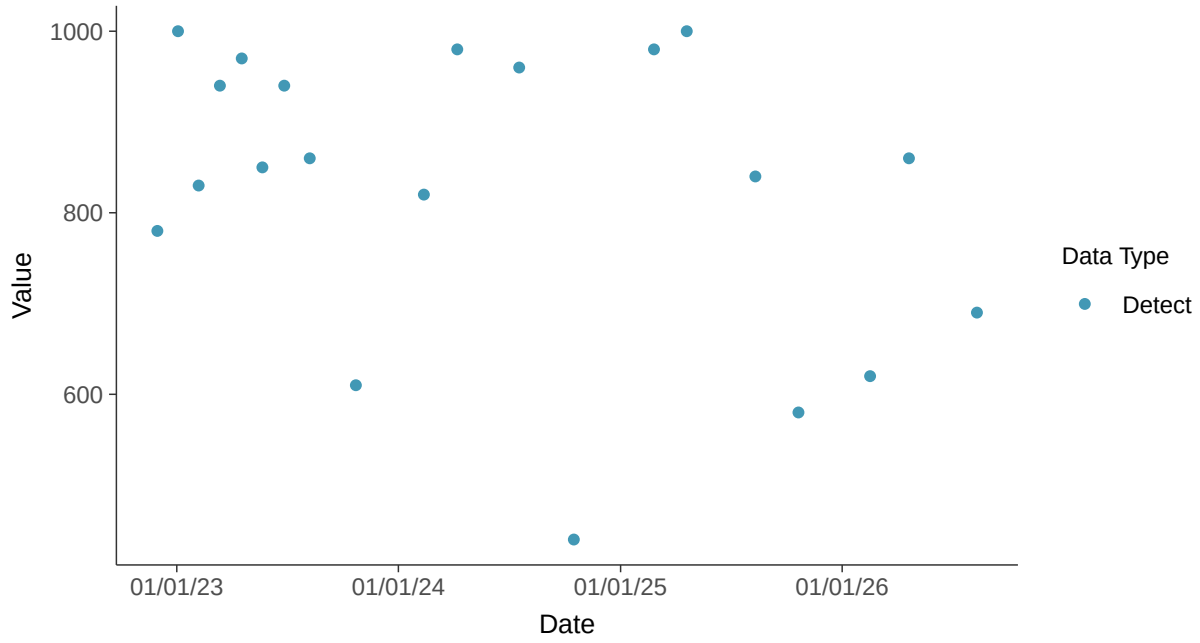


Appendix III: Sulfate (as SO4), MW-30

ID: 40_1_3_124

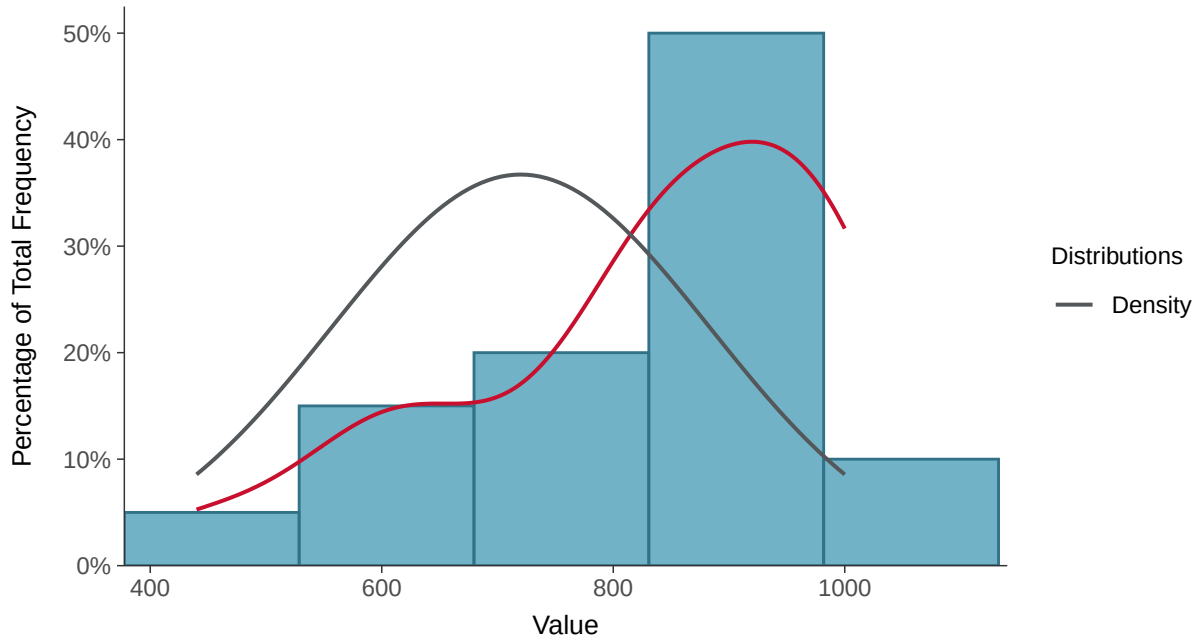
Scatter Plot

Sulfate (as SO4), MW-30 (mg/L)



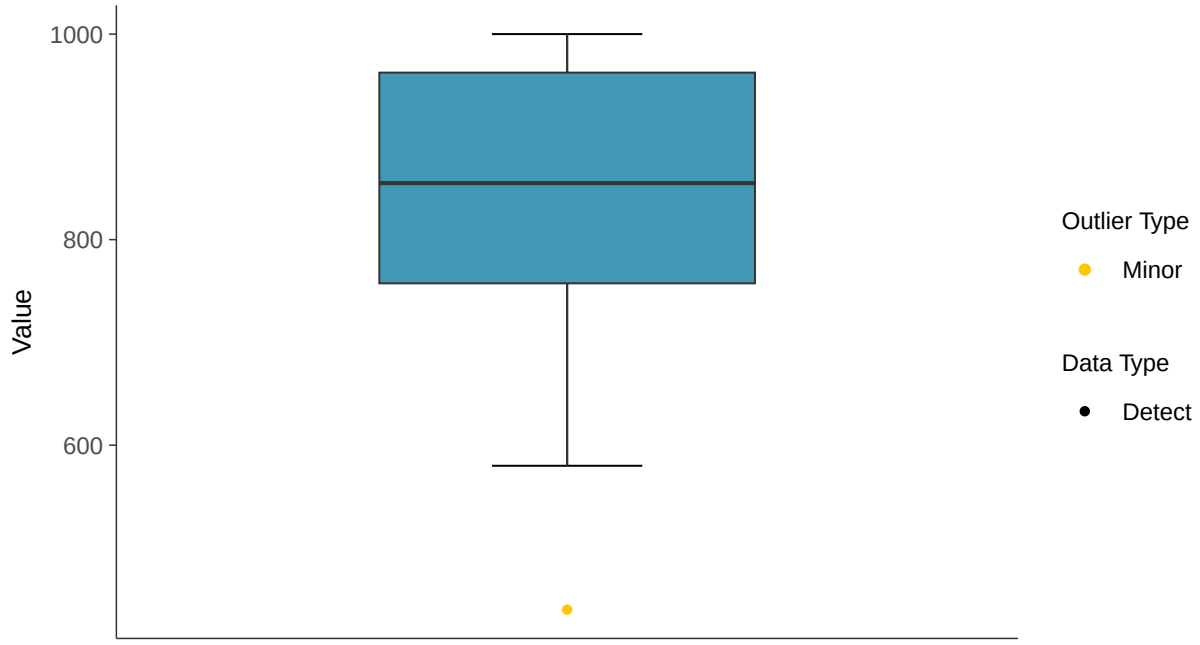
Histogram

Sulfate (as SO4), MW-30 (mg/L)



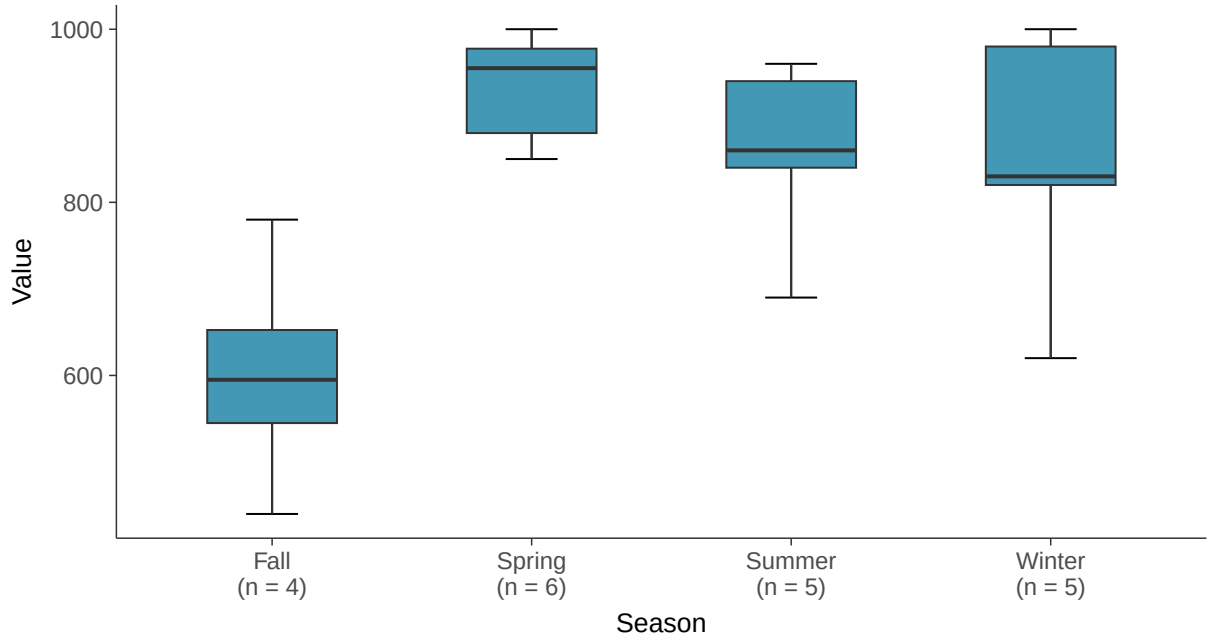
Boxplot

Sulfate (as SO4), MW-30 (mg/L)



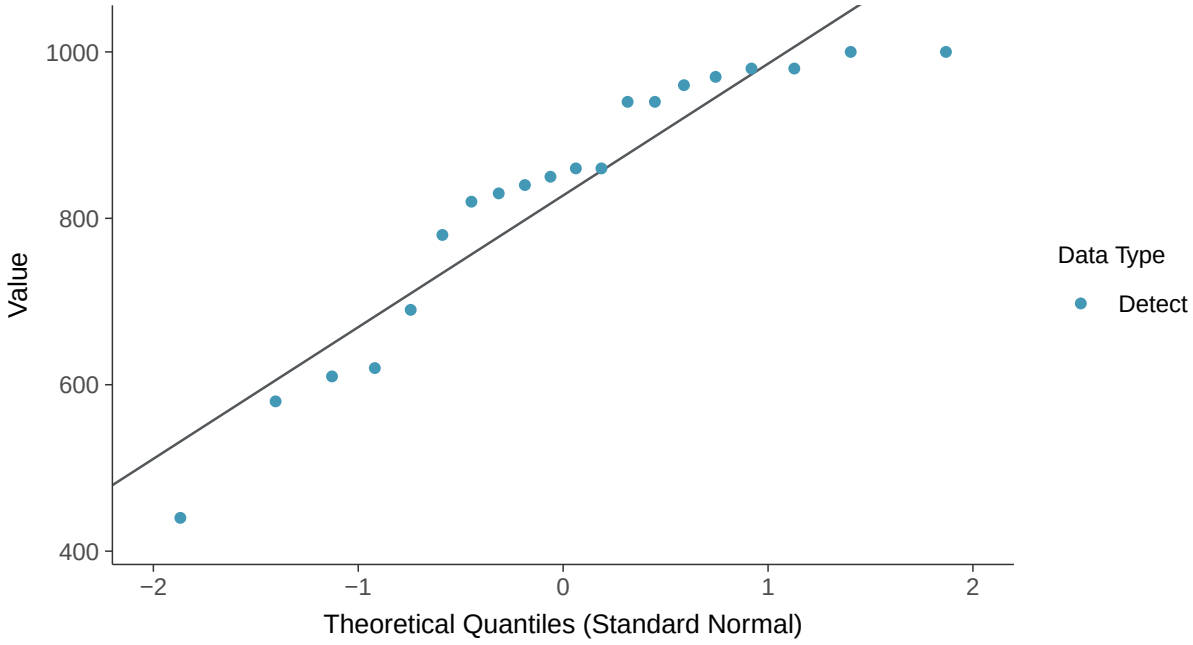
Boxplot by Season

Sulfate (as SO4), MW-30 (mg/L)



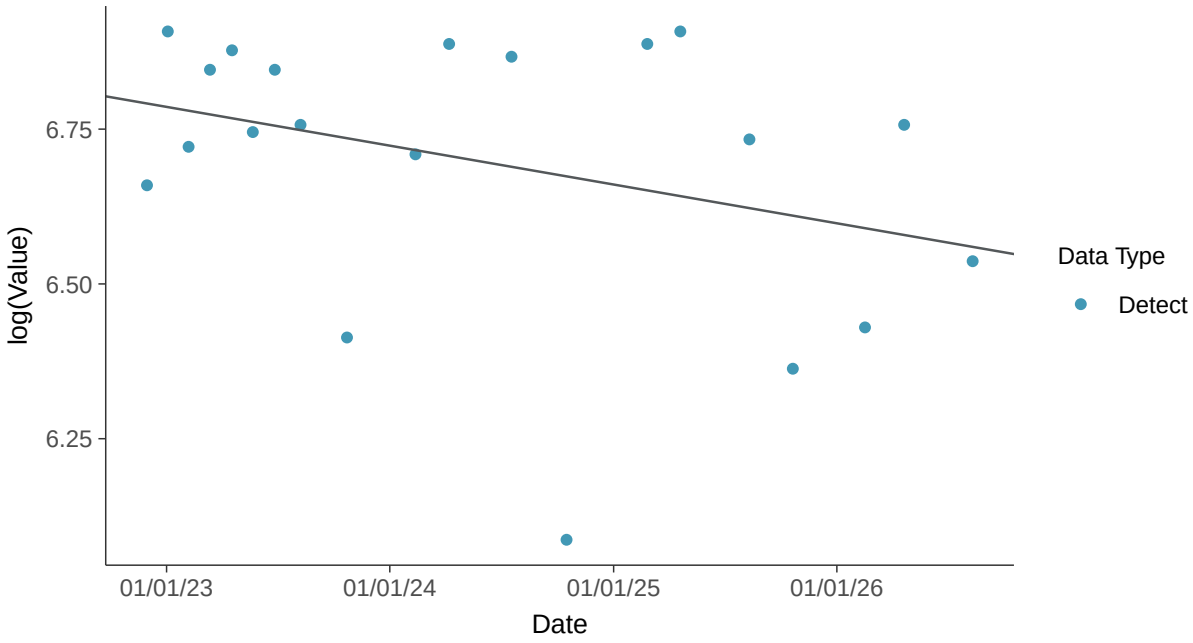
Normal Q-Q plot

Sulfate (as SO4), MW-30 (mg/L)



Trend Regression: Lognormal MLE

Sulfate (as SO4), MW-30 (mg/L)

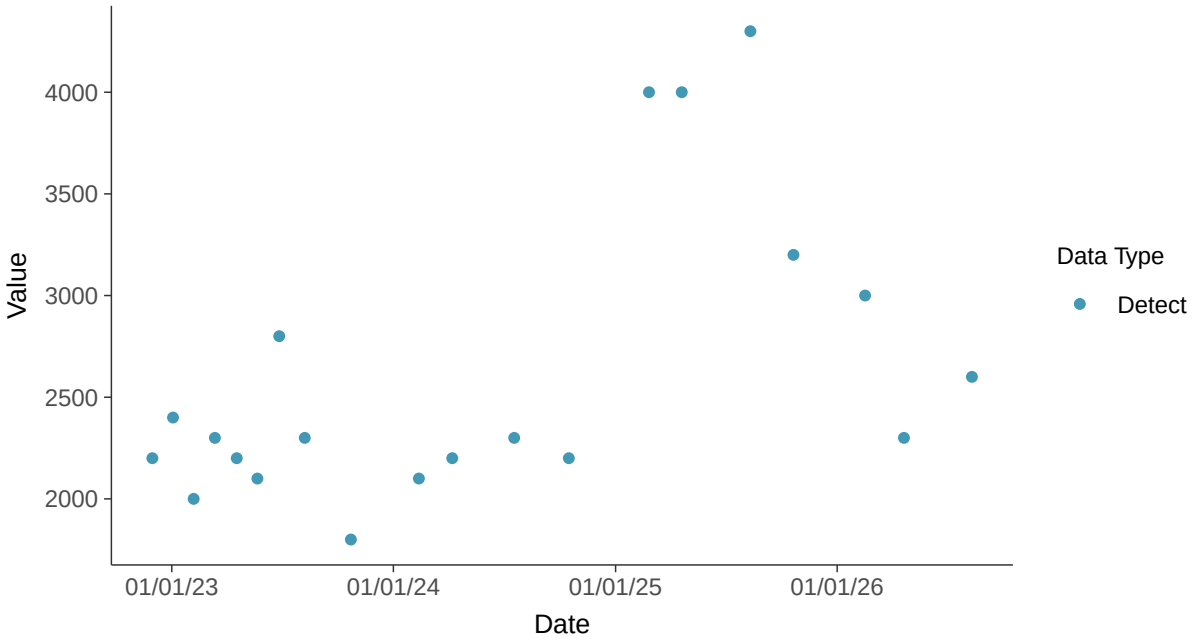


Appendix III: Total Dissolved Solids, MW-30

ID: 40_1_3_126

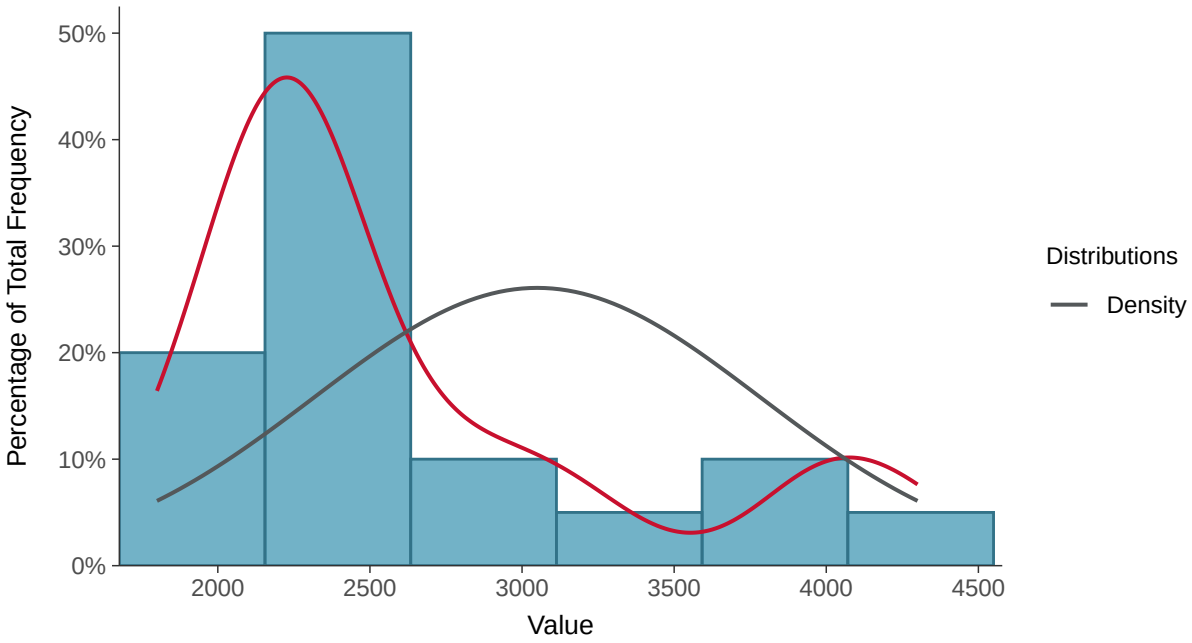
Scatter Plot

Total Dissolved Solids, MW-30 (mg/L)



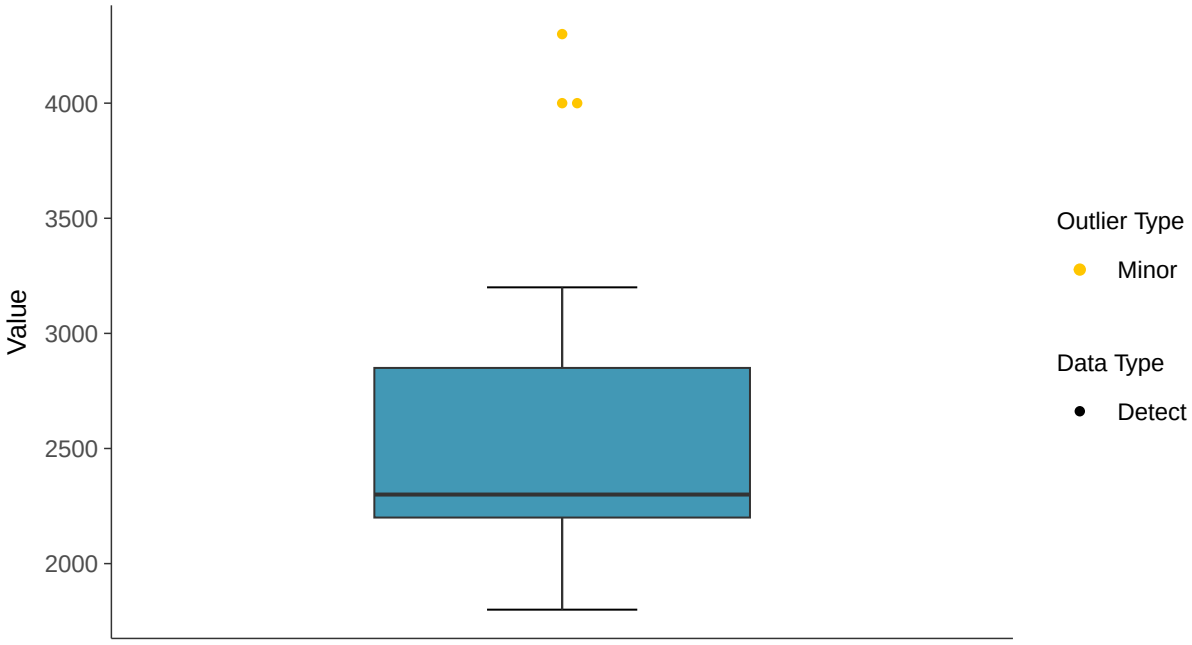
Histogram

Total Dissolved Solids, MW-30 (mg/L)



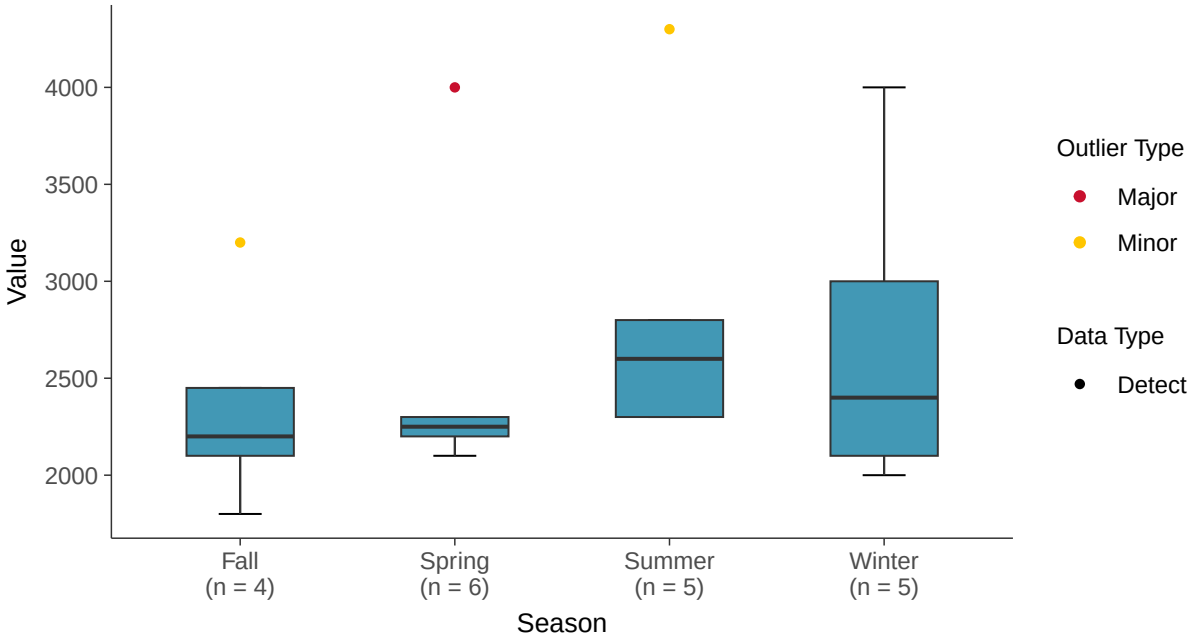
Boxplot

Total Dissolved Solids, MW-30 (mg/L)



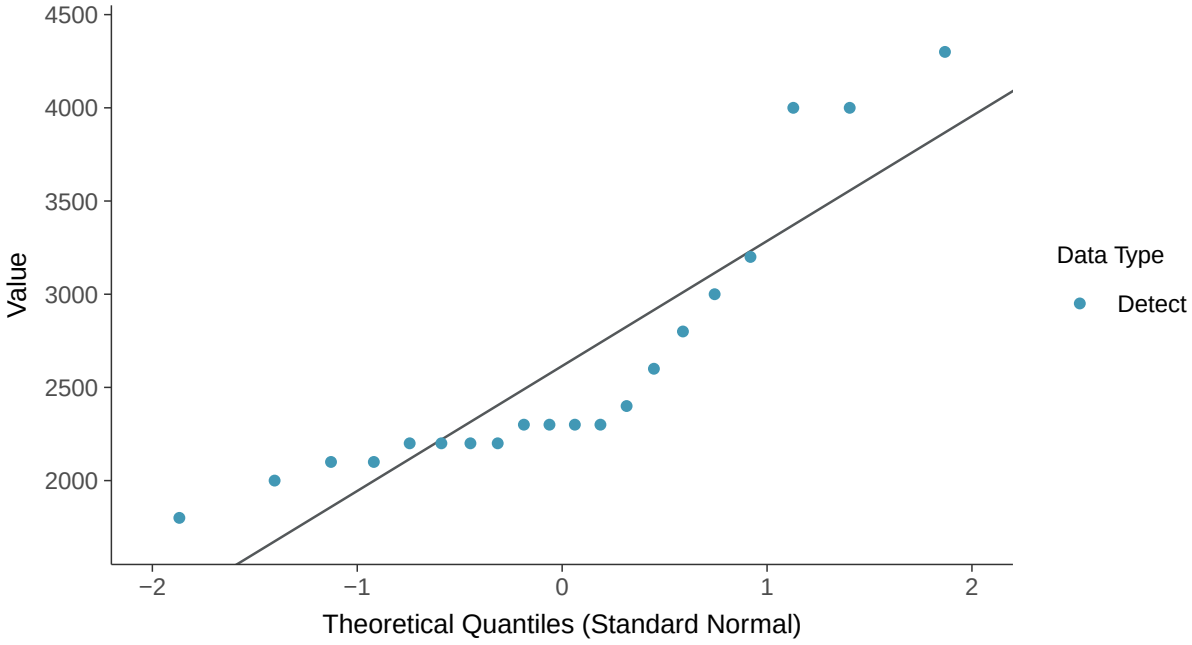
Boxplot by Season

Total Dissolved Solids, MW-30 (mg/L)



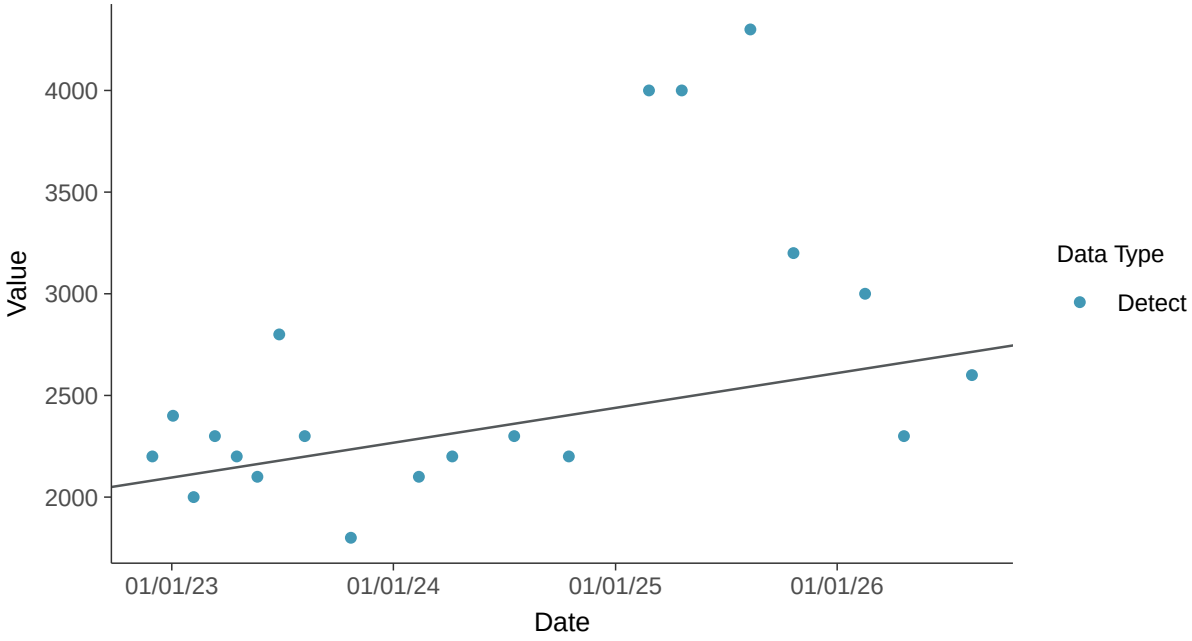
Normal Q-Q plot

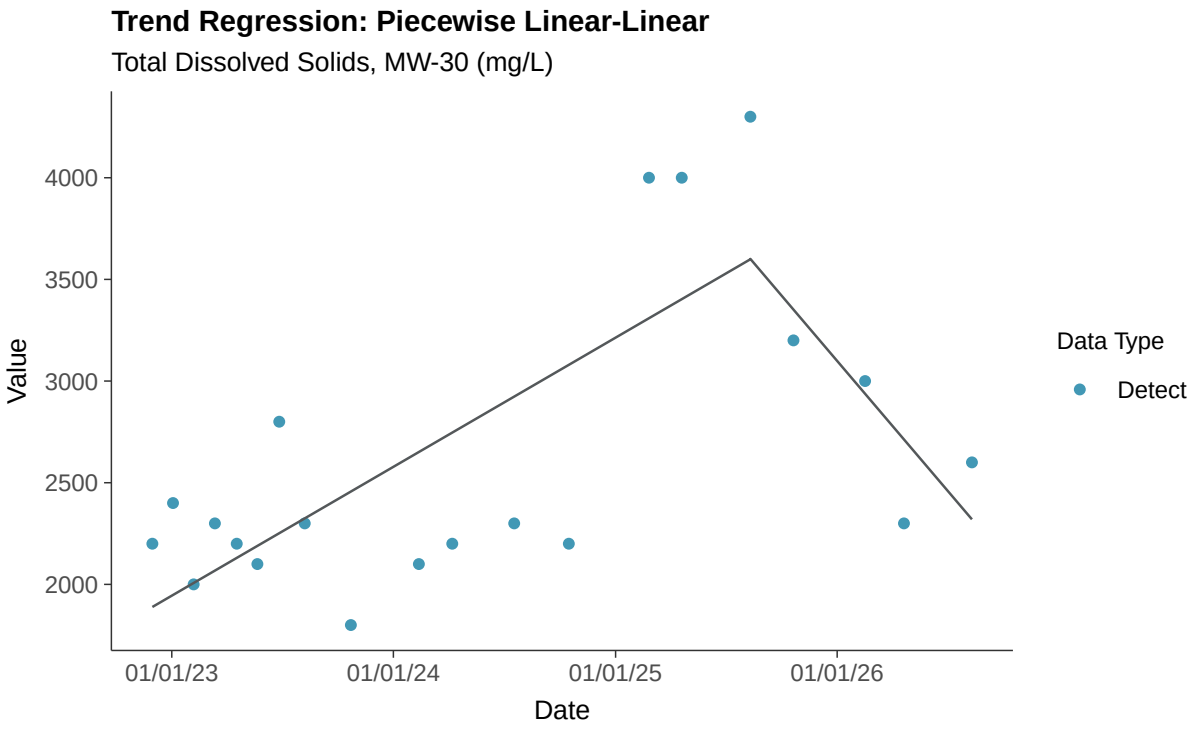
Total Dissolved Solids, MW-30 (mg/L)



Trend Regression: Mann-Kendall/Theil-Sen Estimate

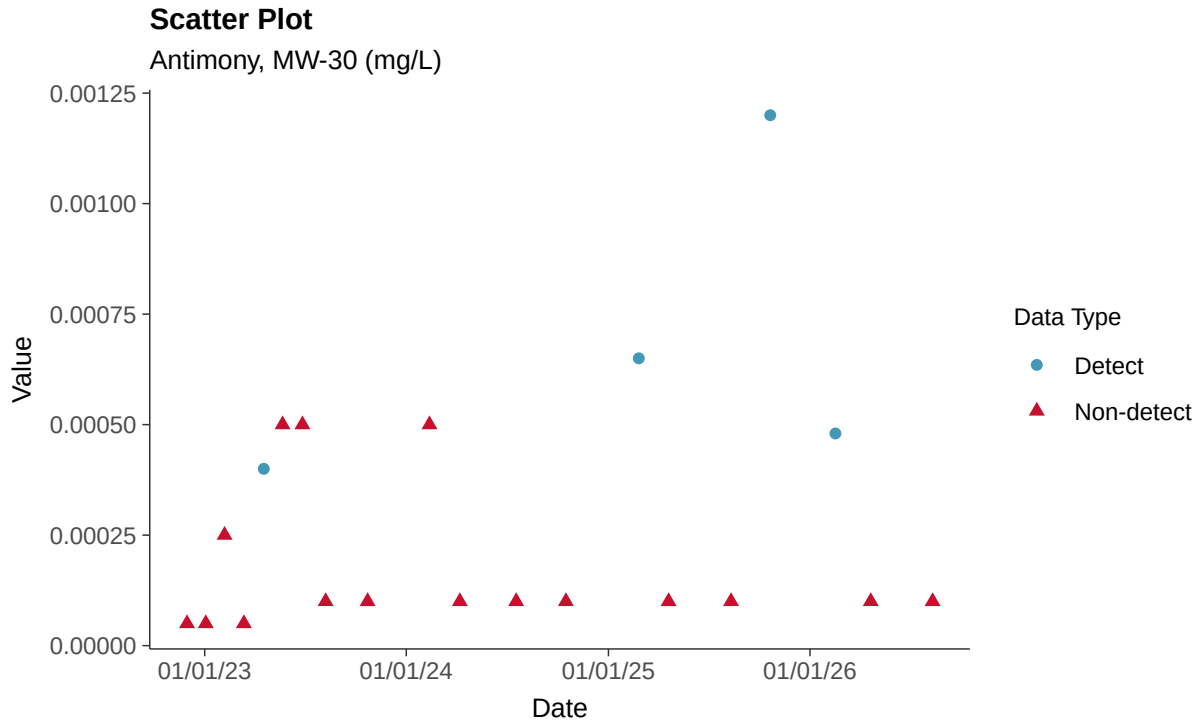
Total Dissolved Solids, MW-30 (mg/L)

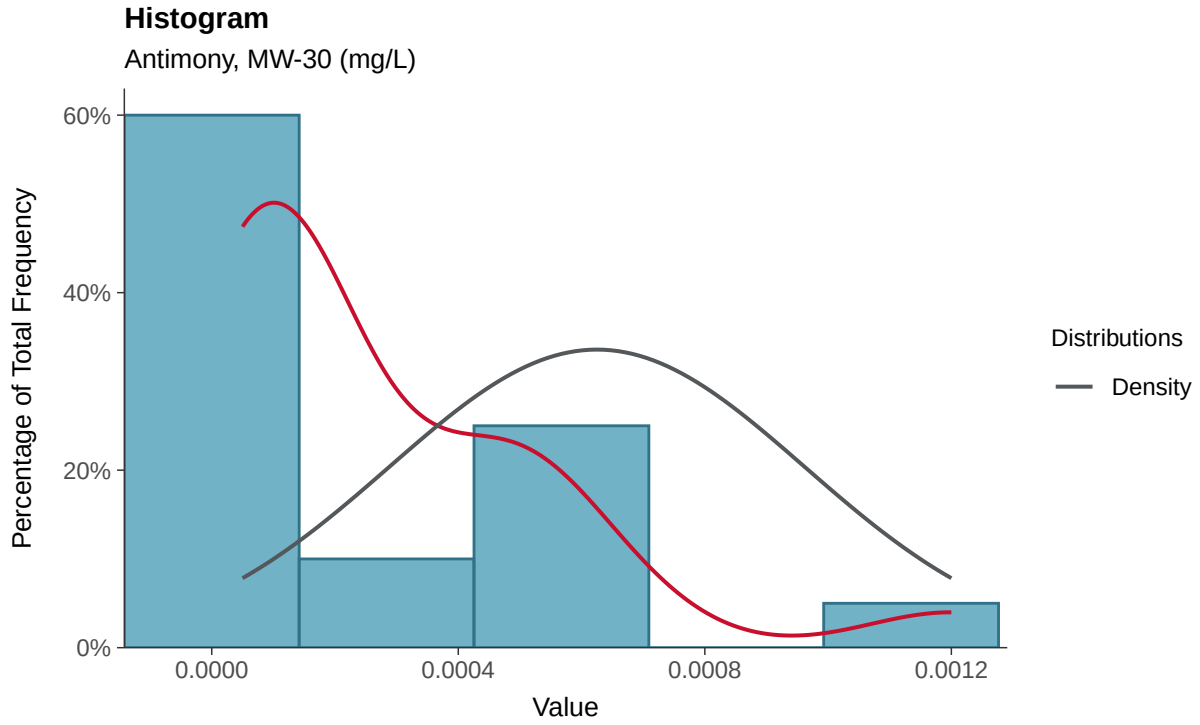



Trend Regression: Piecewise Linear-Linear
Total Dissolved Solids, MW-30 (mg/L)
Value
4000
3500
3000
2500
2000
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect

Appendix IV: Antimony, MW-30

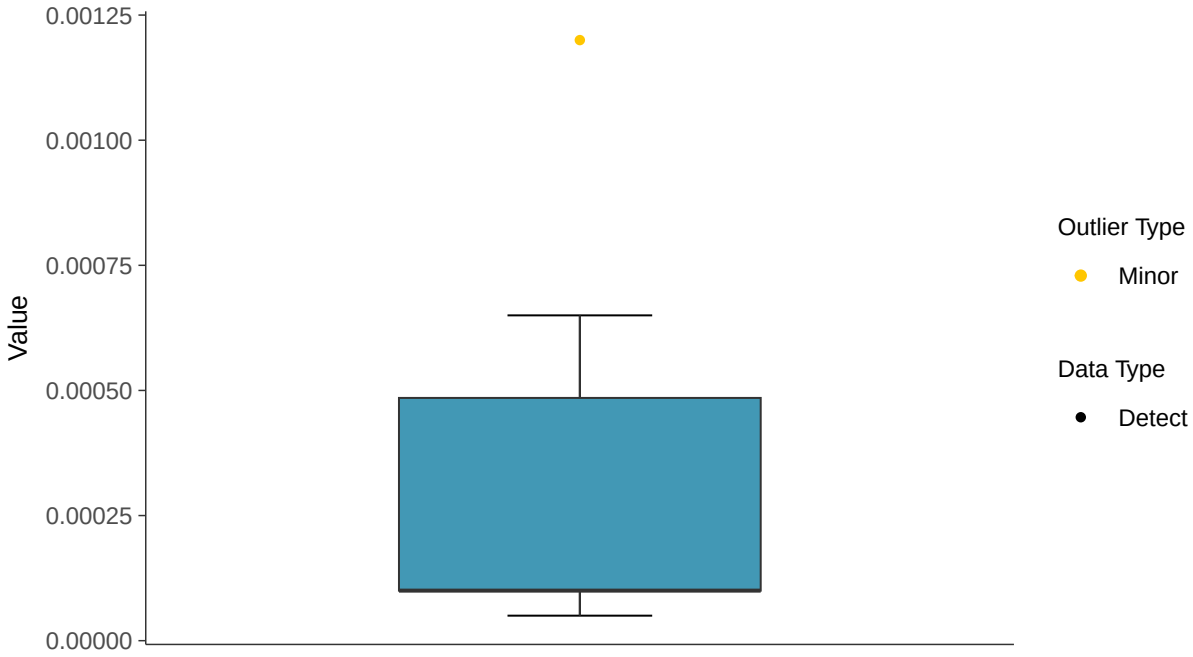
ID: 40_1_4_101





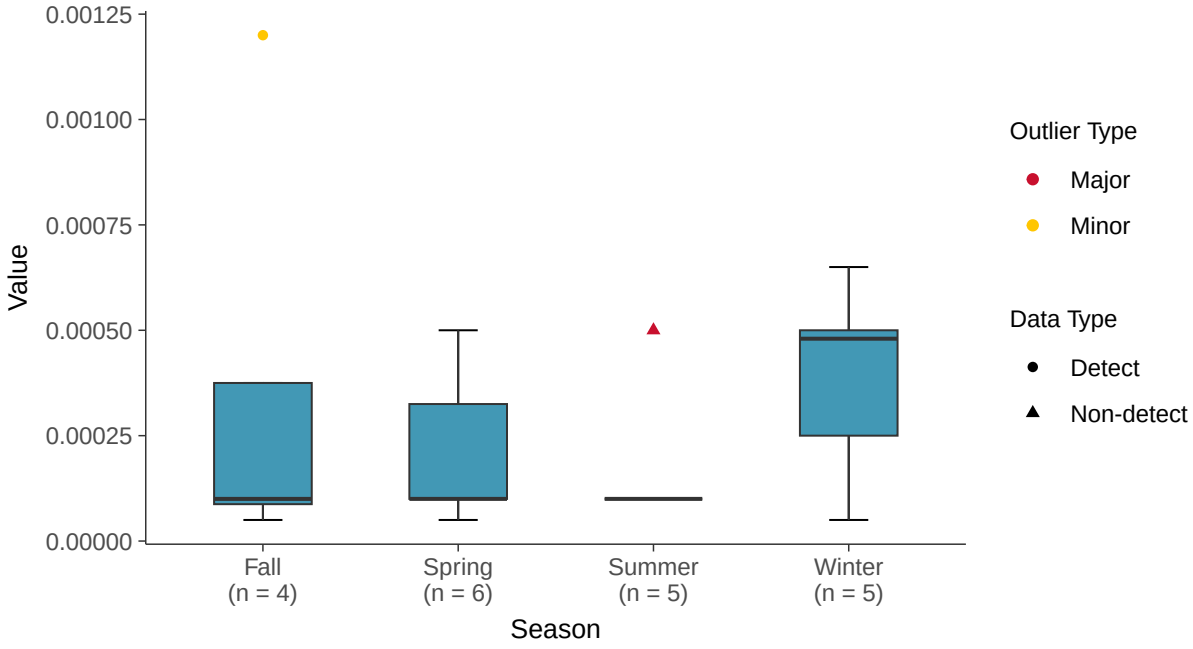
Boxplot

Antimony, MW-30 (mg/L)



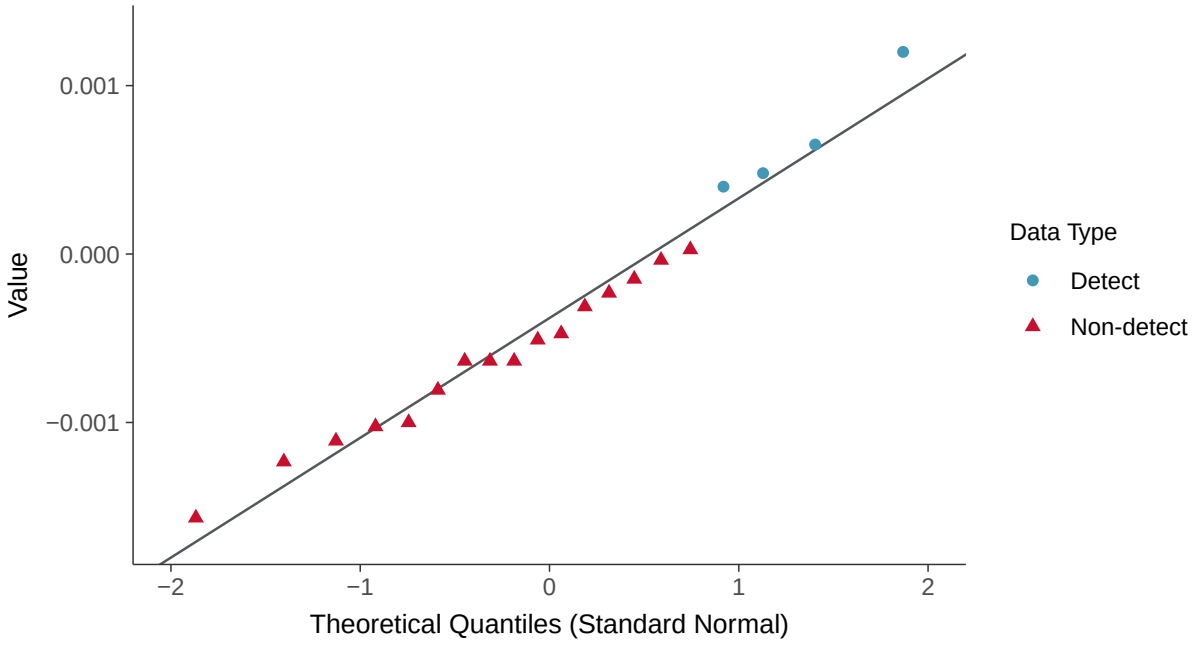
Boxplot by Season

Antimony, MW-30 (mg/L)



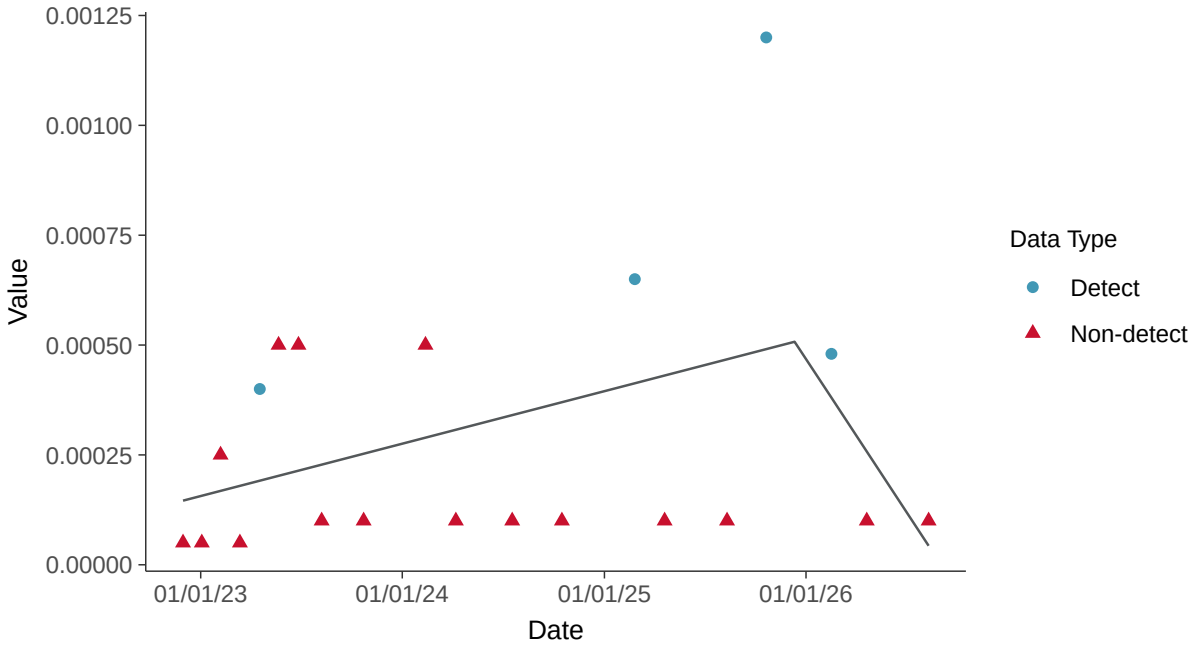
Normal Q-Q plot using ROS Imputed Estimates

Antimony, MW-30 (mg/L)



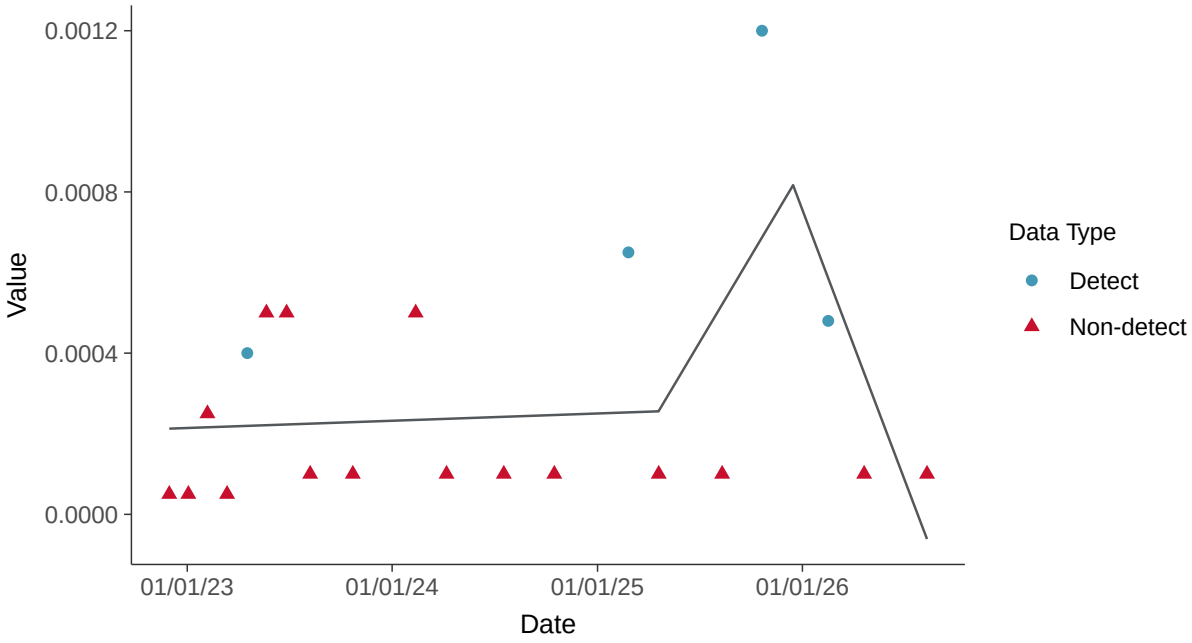
Trend Regression: Piecewise Linear-Linear

Antimony, MW-30 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Antimony, MW-30 (mg/L)

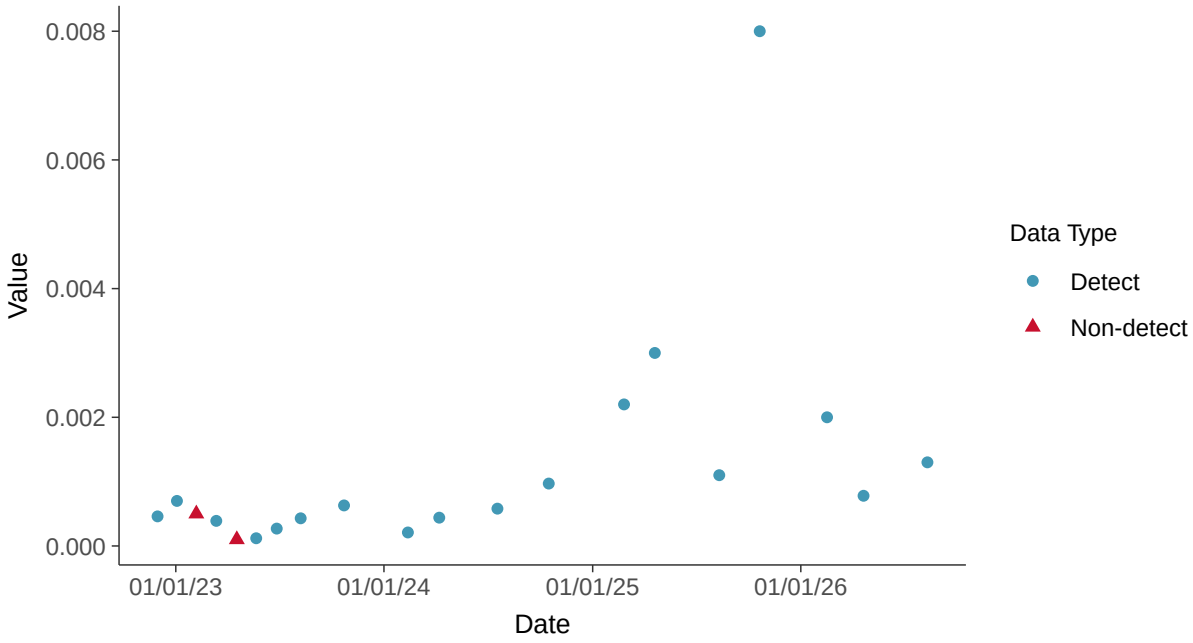


Appendix IV: Arsenic, MW-30

ID: 40_1_4_102

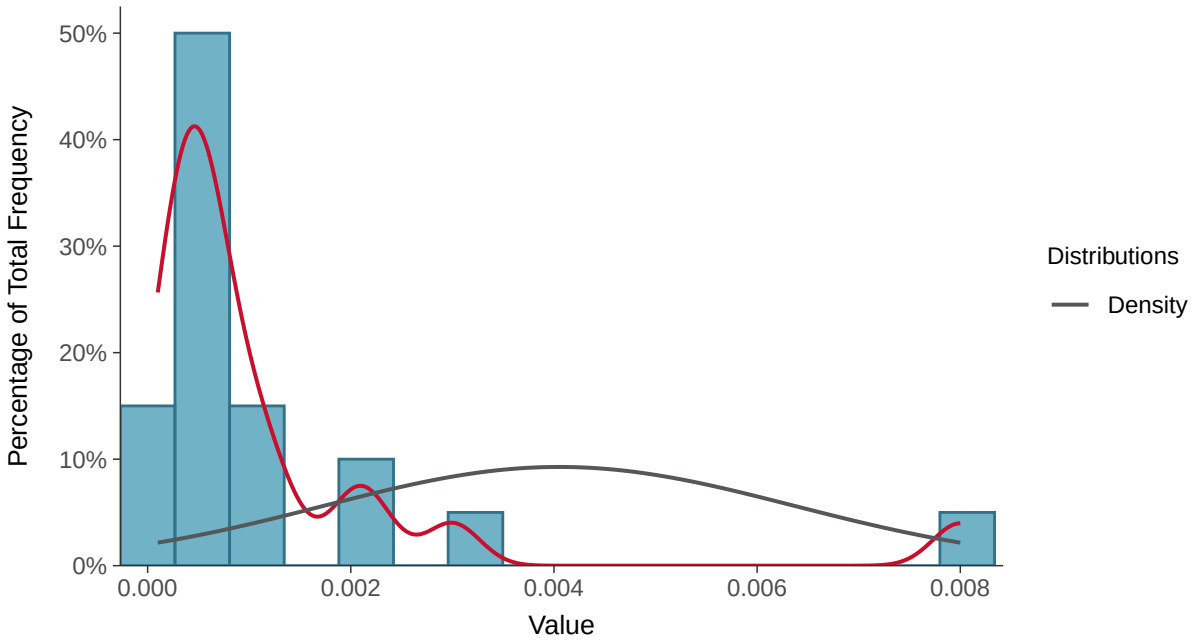
Scatter Plot

Arsenic, MW-30 (mg/L)



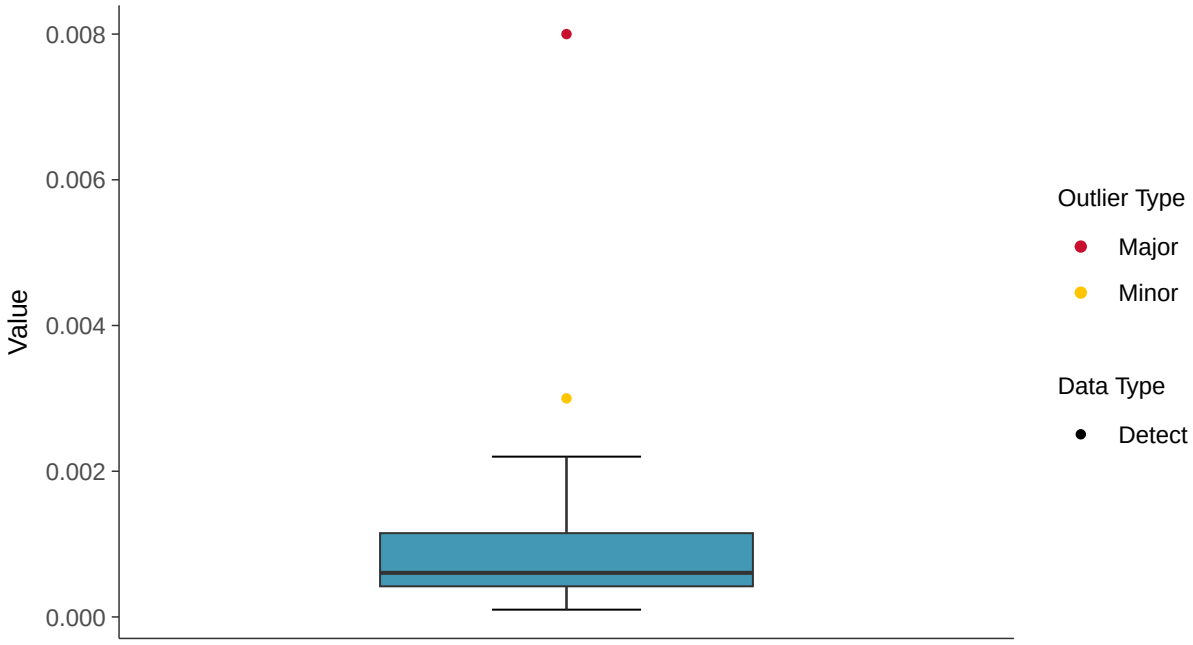
Histogram

Arsenic, MW-30 (mg/L)



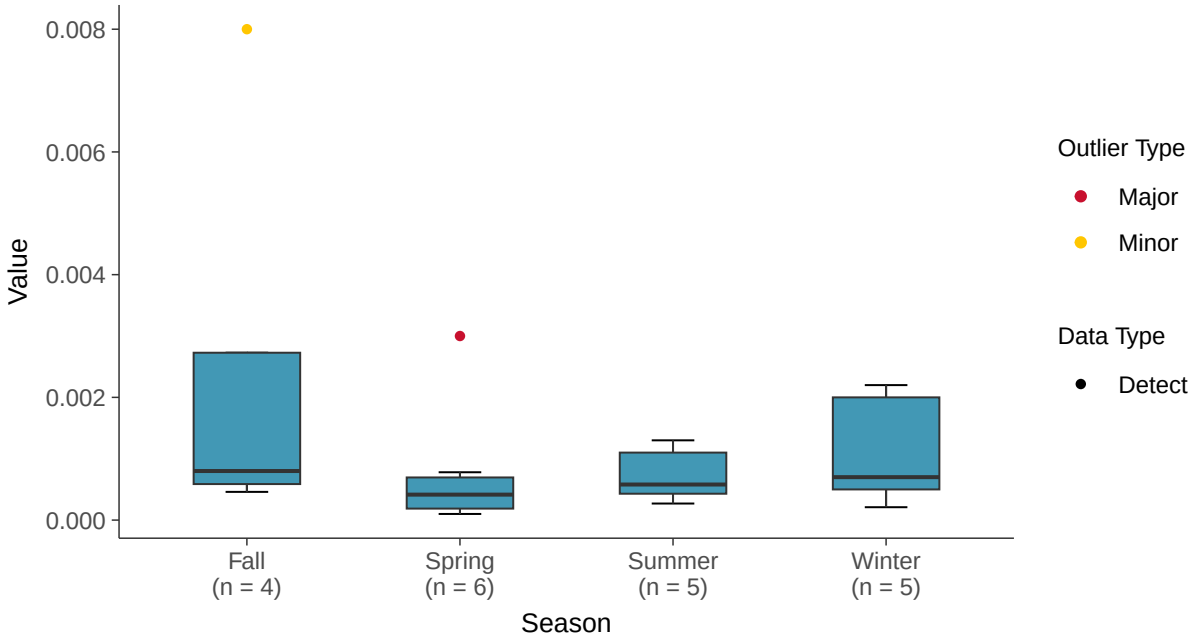
Boxplot

Arsenic, MW-30 (mg/L)



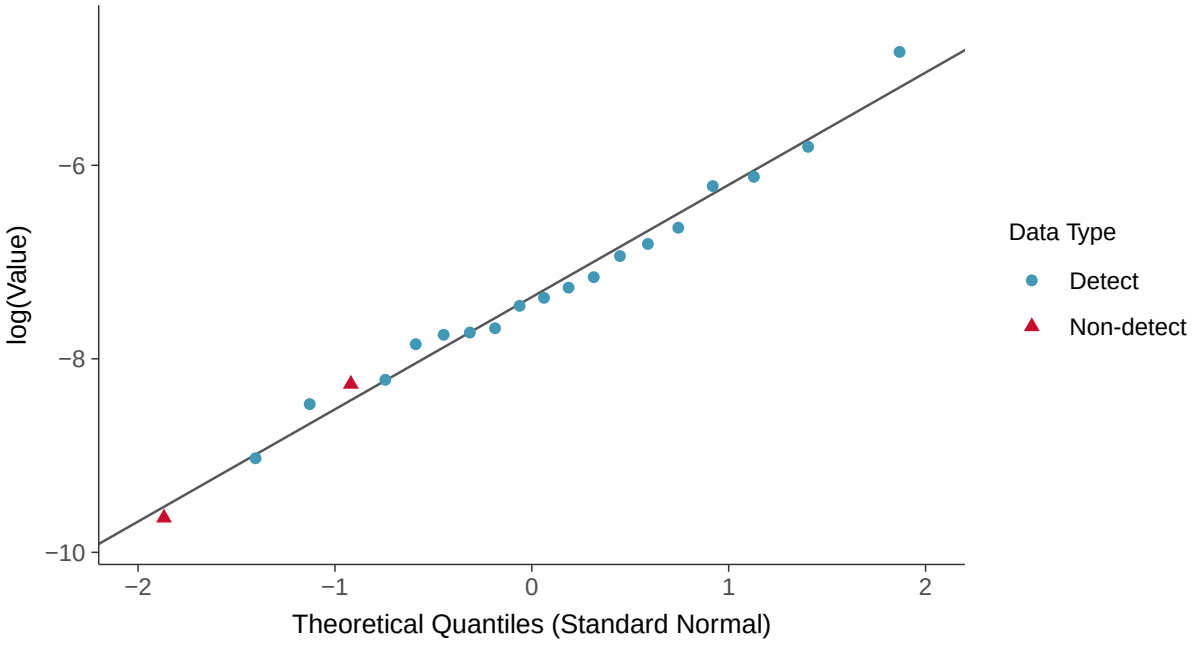
Boxplot by Season

Arsenic, MW-30 (mg/L)



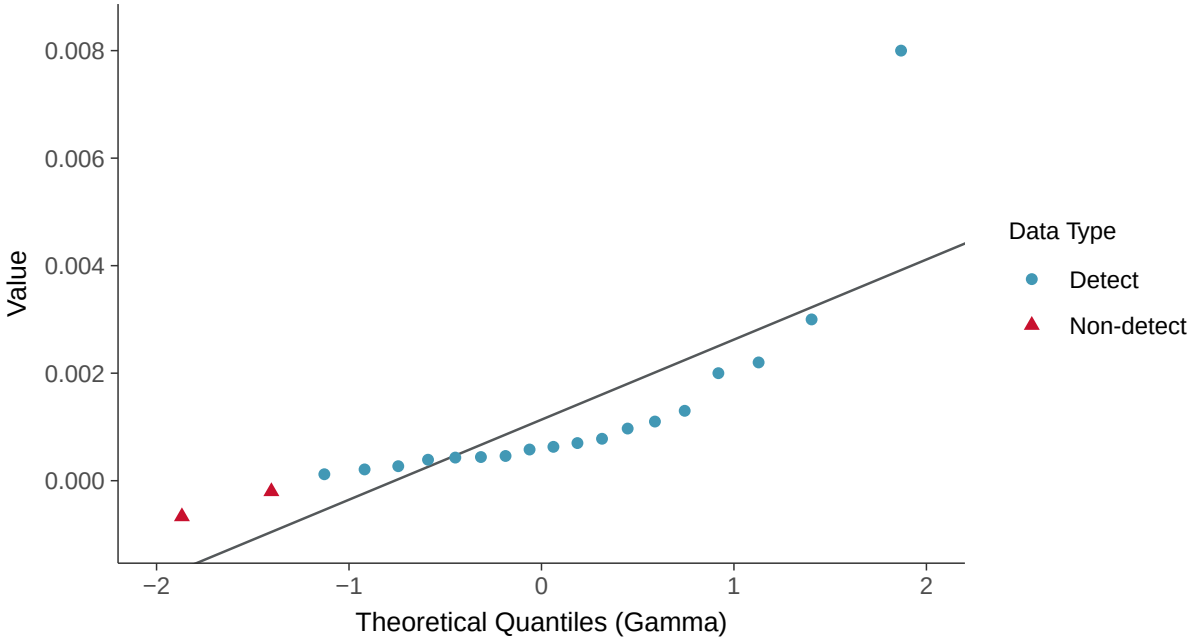
Lognormal Q-Q plot using ROS Imputed Estimates

Arsenic, MW-30 (mg/L)



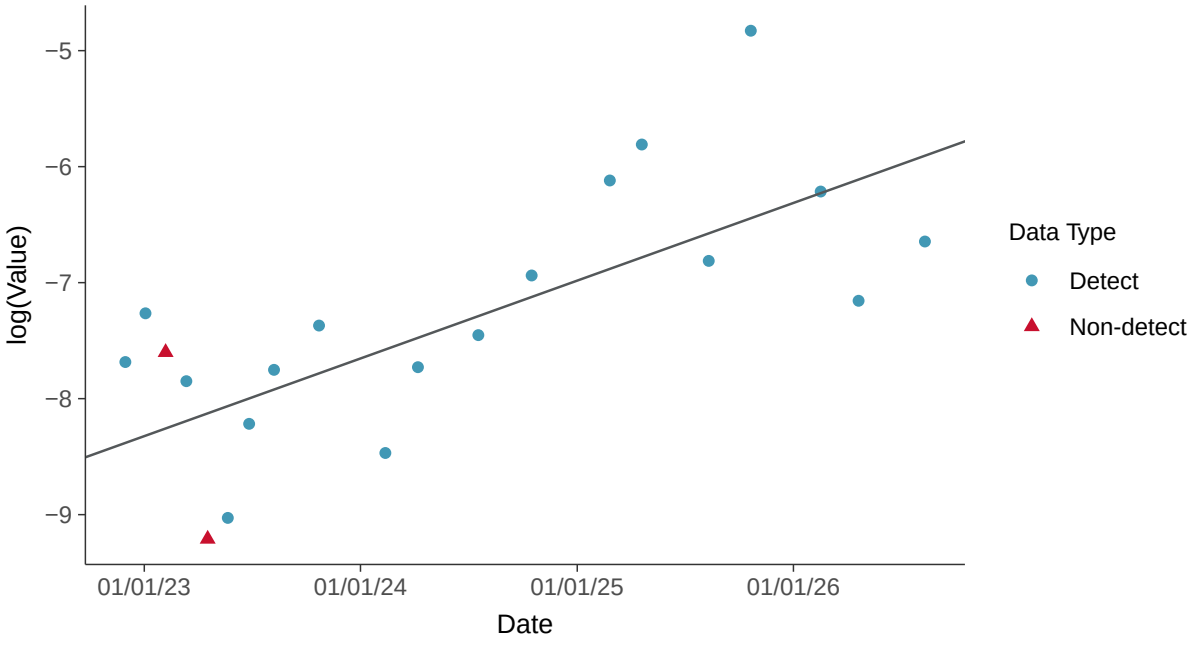
Gamma Q-Q plot using ROS Imputed Estimates

Arsenic, MW-30 (mg/L)



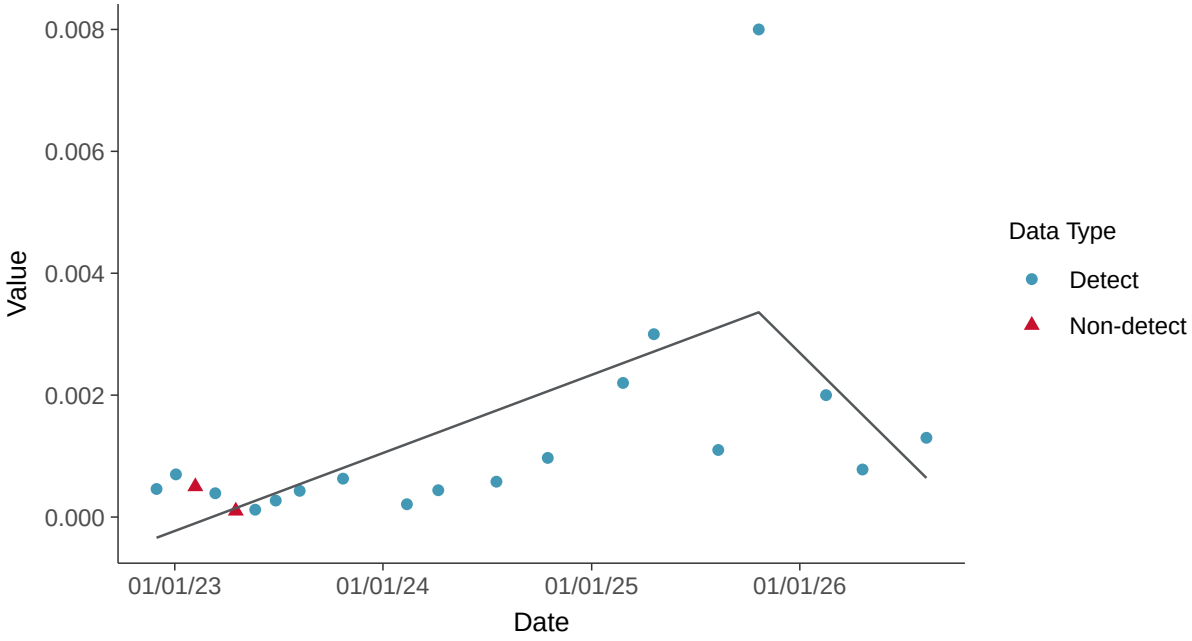
Trend Regression: Lognormal MLE

Arsenic, MW-30 (mg/L)



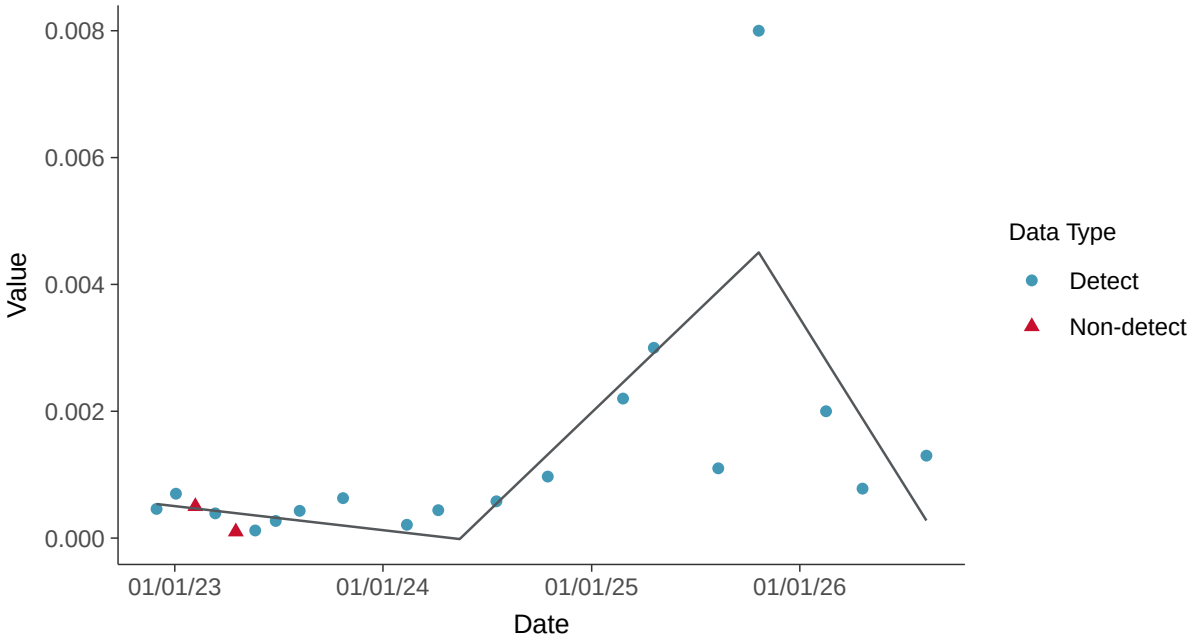
Trend Regression: Piecewise Linear-Linear

Arsenic, MW-30 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Arsenic, MW-30 (mg/L)

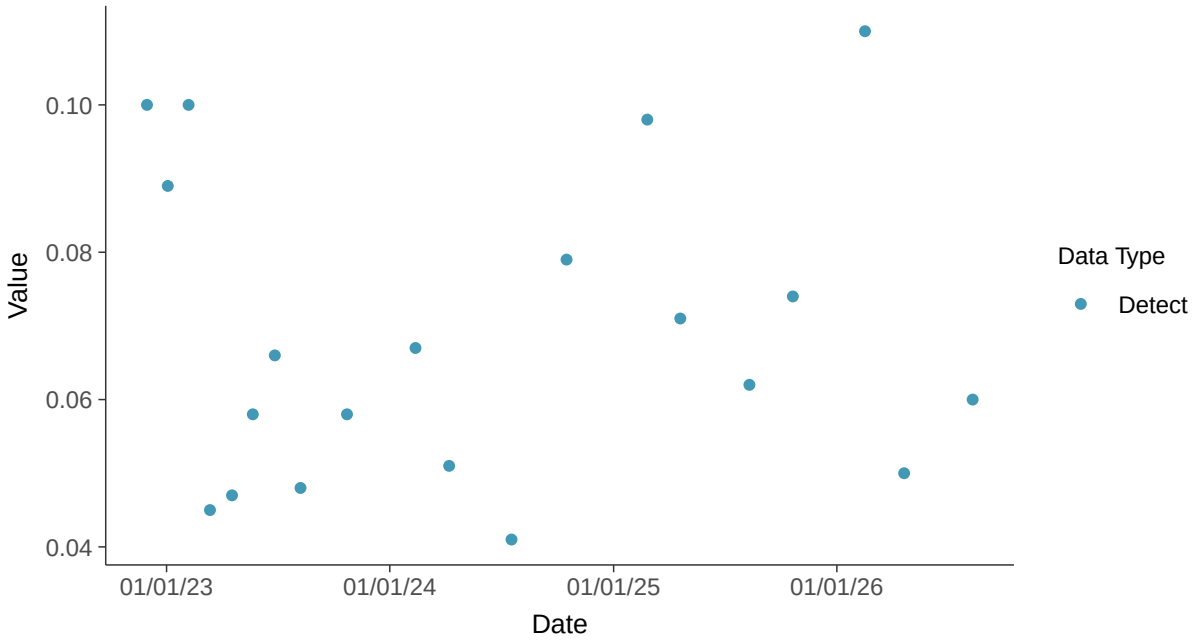


Appendix IV: Barium, MW-30

ID: 40_1_4_103

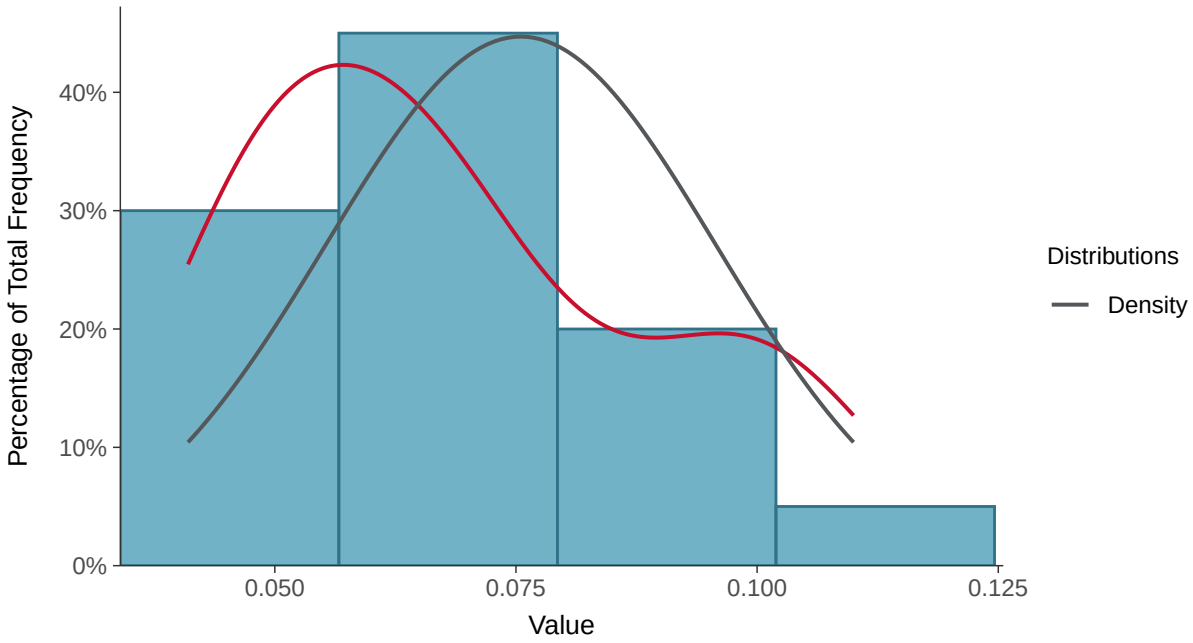
Scatter Plot

Barium, MW-30 (mg/L)



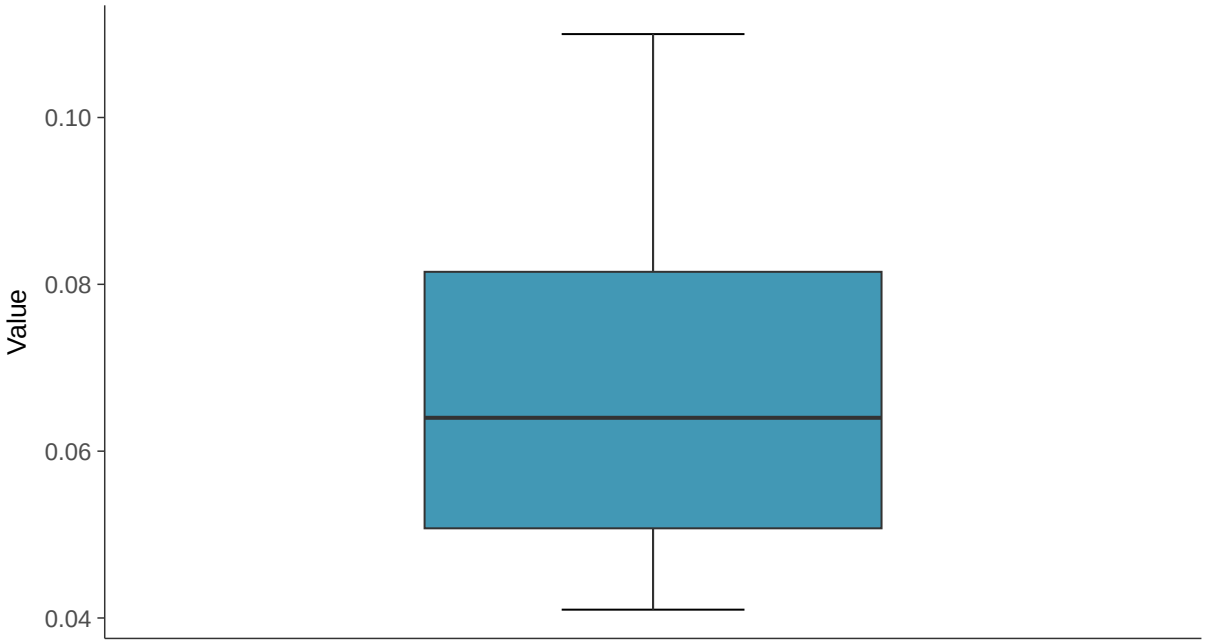
Histogram

Barium, MW-30 (mg/L)



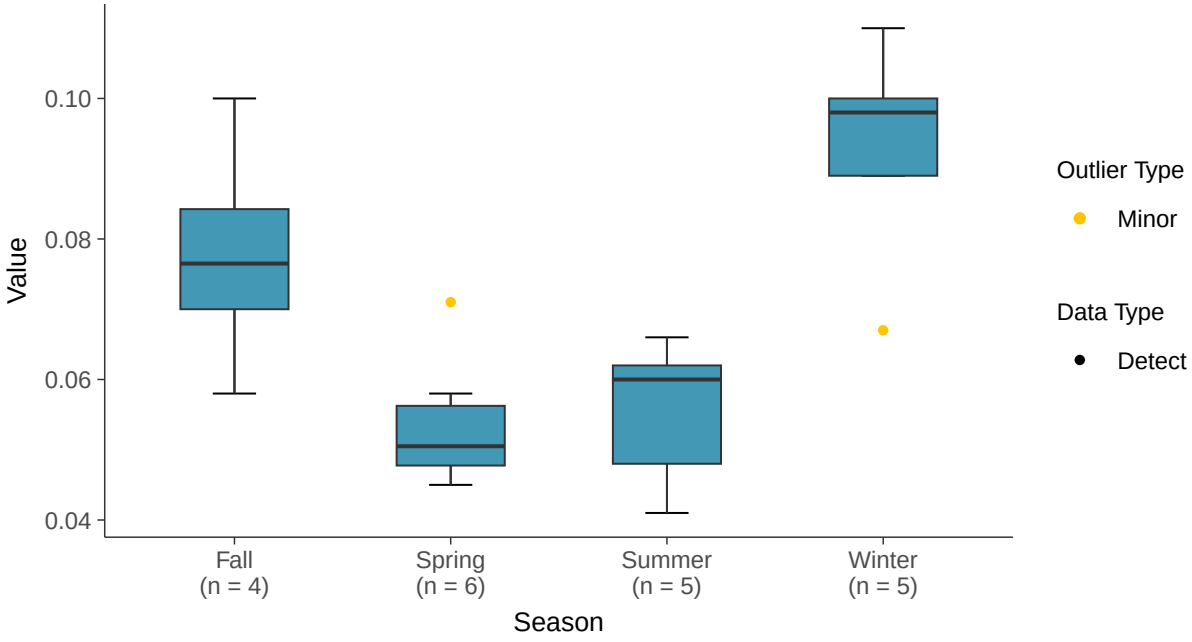
Boxplot

Barium, MW-30 (mg/L)



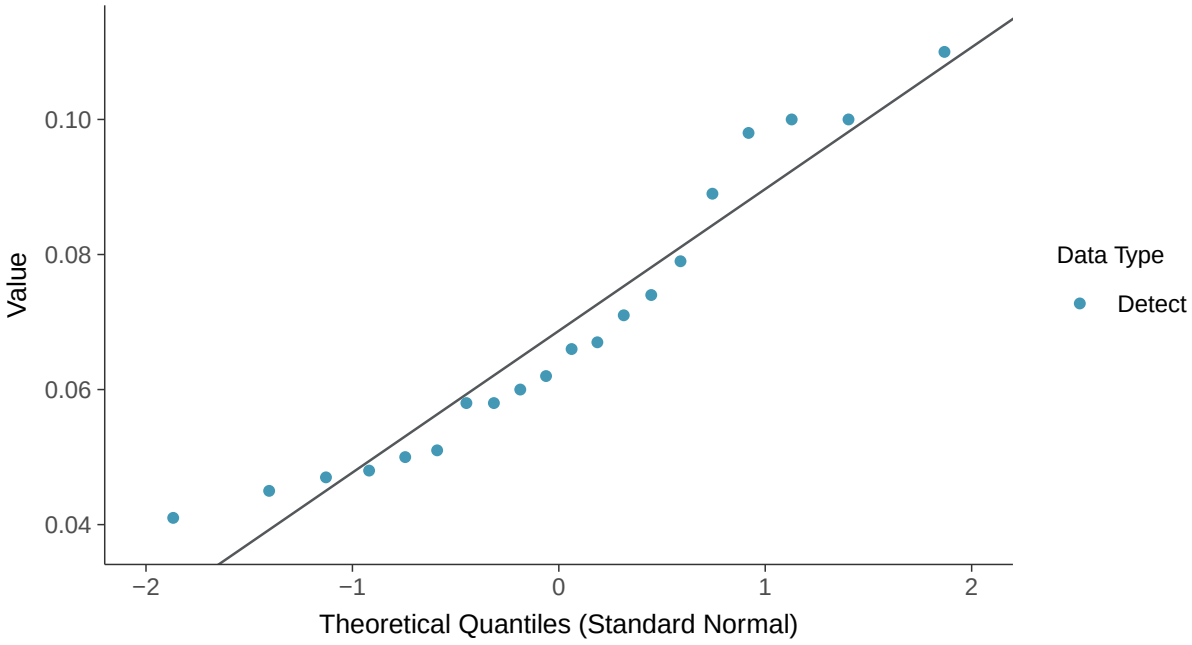
Boxplot by Season

Barium, MW-30 (mg/L)



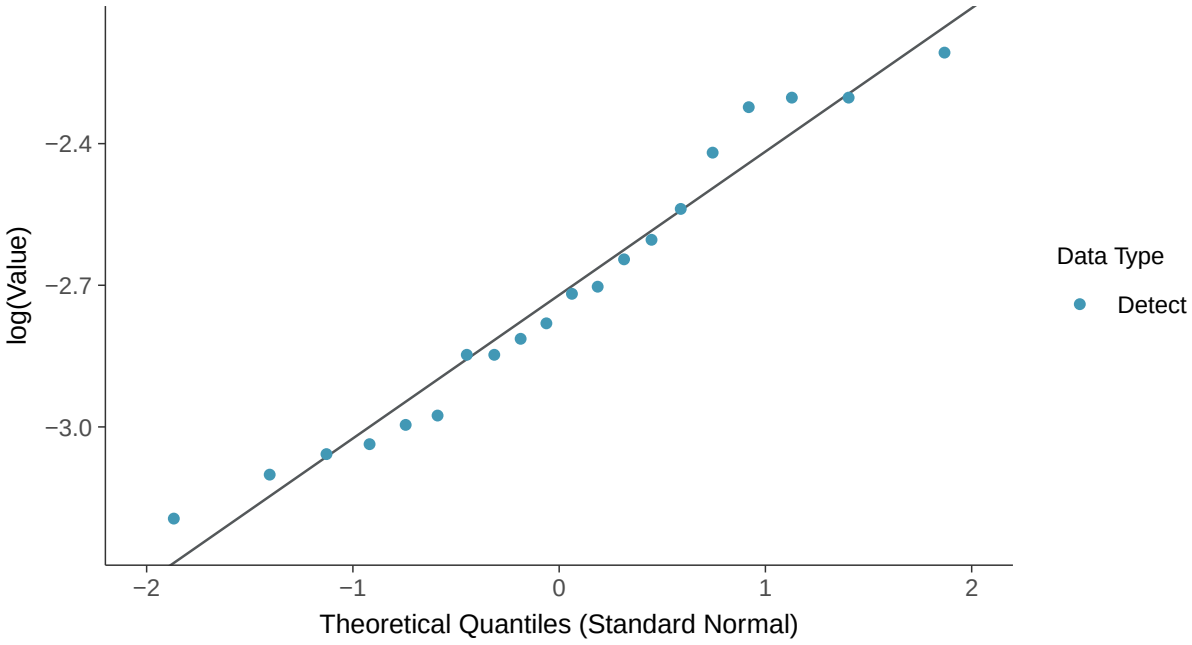
Normal Q-Q plot

Barium, MW-30 (mg/L)



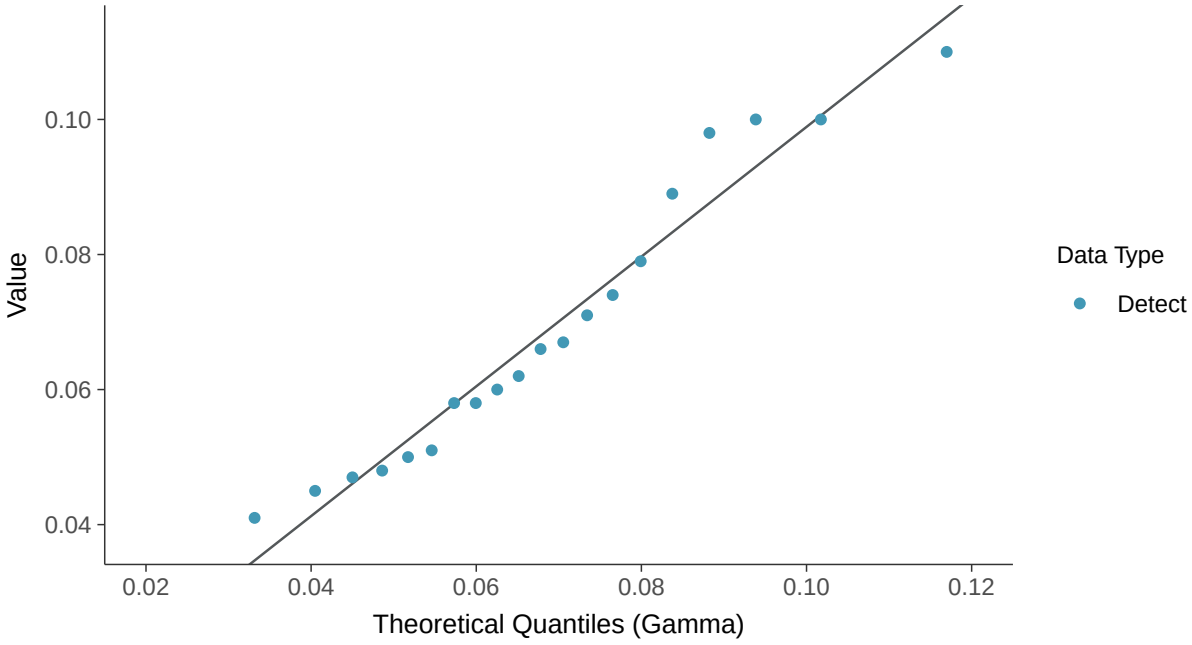
Lognormal Q-Q plot

Barium, MW-30 (mg/L)



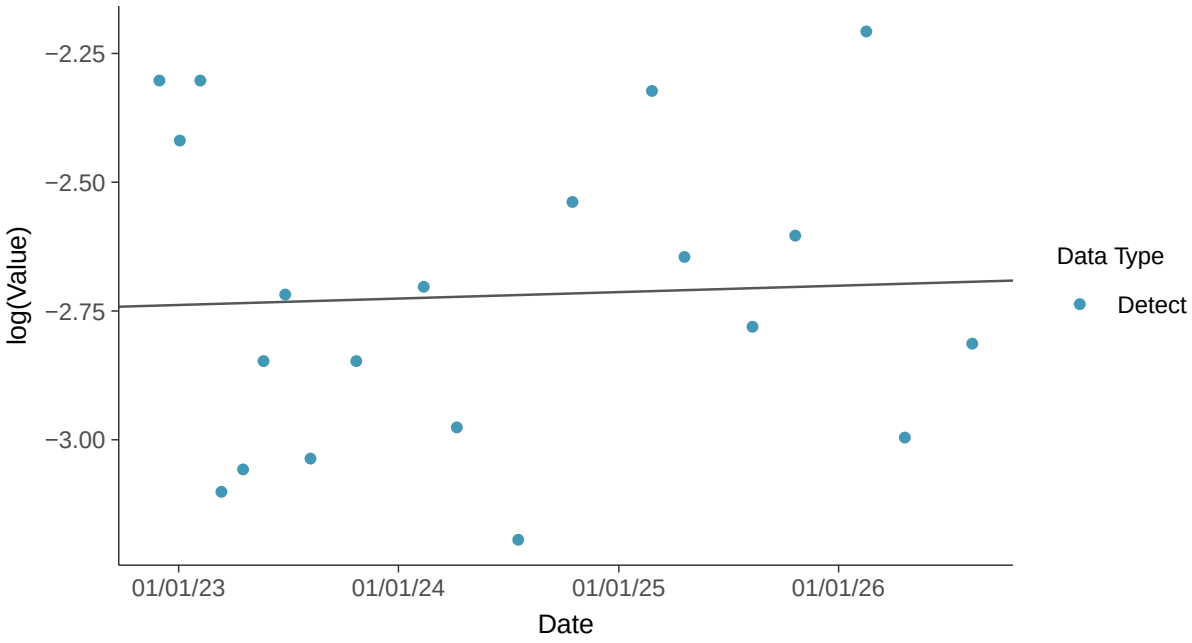
Gamma Q-Q plot

Barium, MW-30 (mg/L)



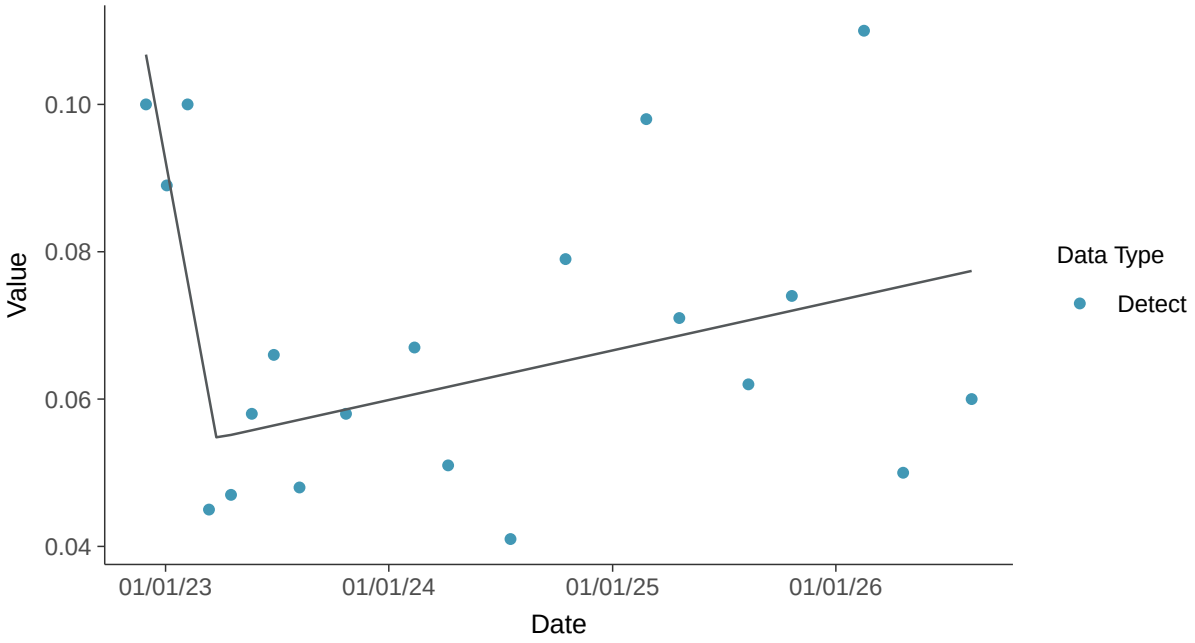
Trend Regression: Lognormal MLE

Barium, MW-30 (mg/L)



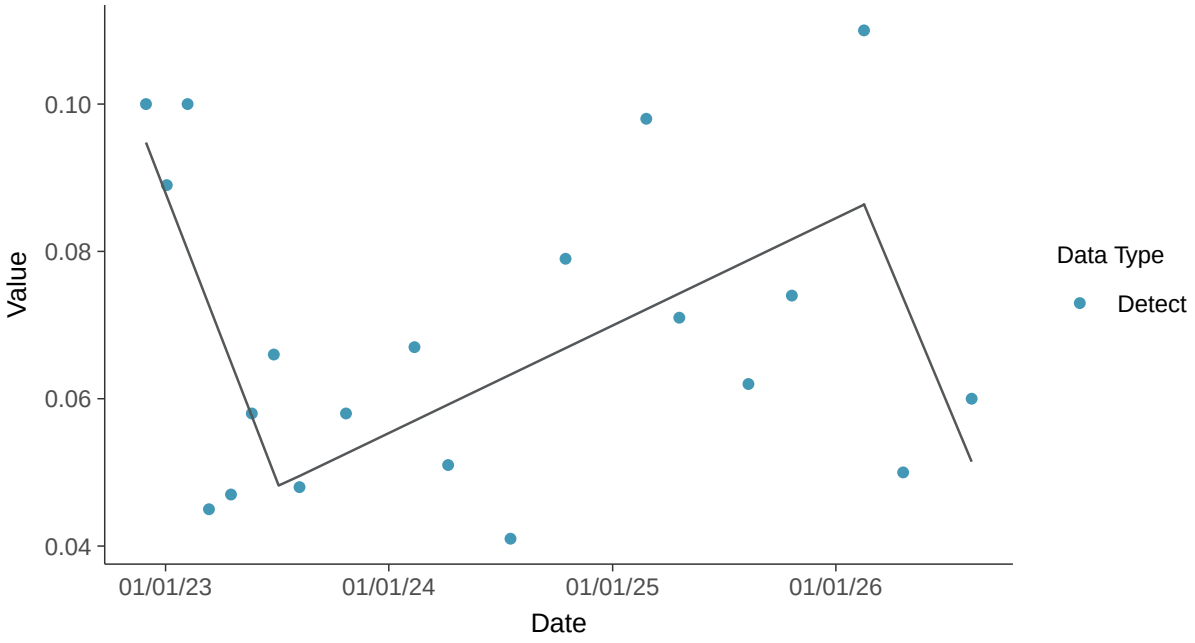
Trend Regression: Piecewise Linear-Linear

Barium, MW-30 (mg/L)



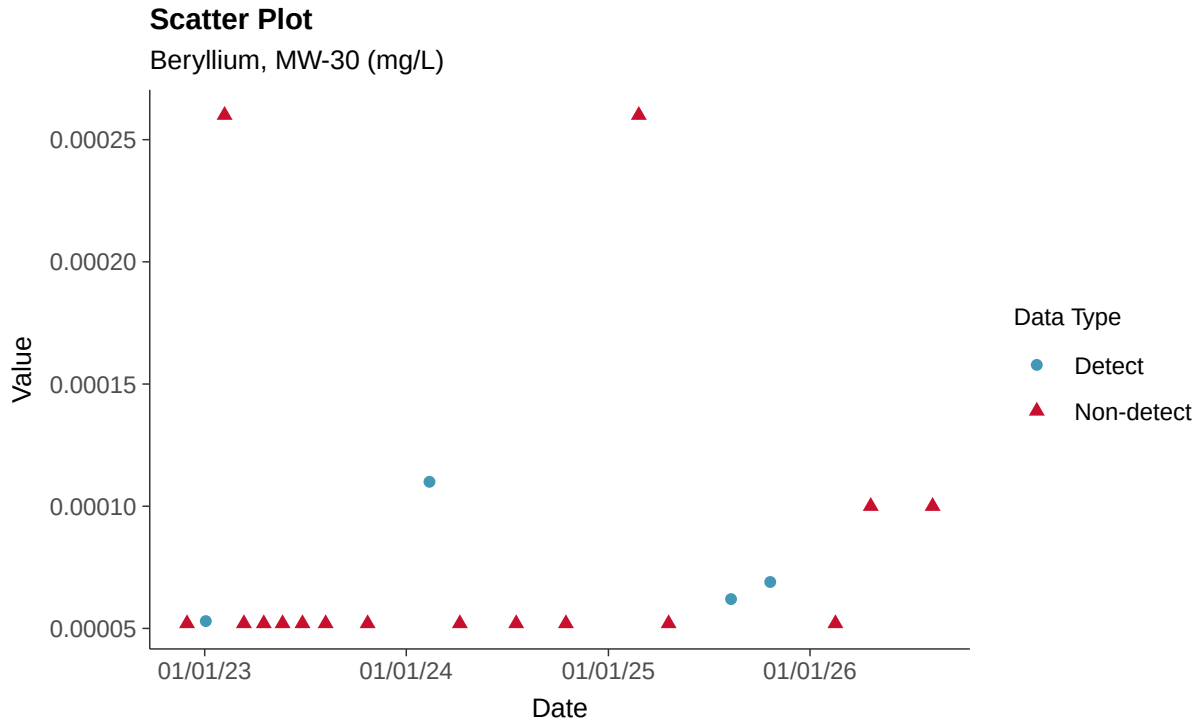
Trend Regression: Piecewise Linear-Linear-Linear

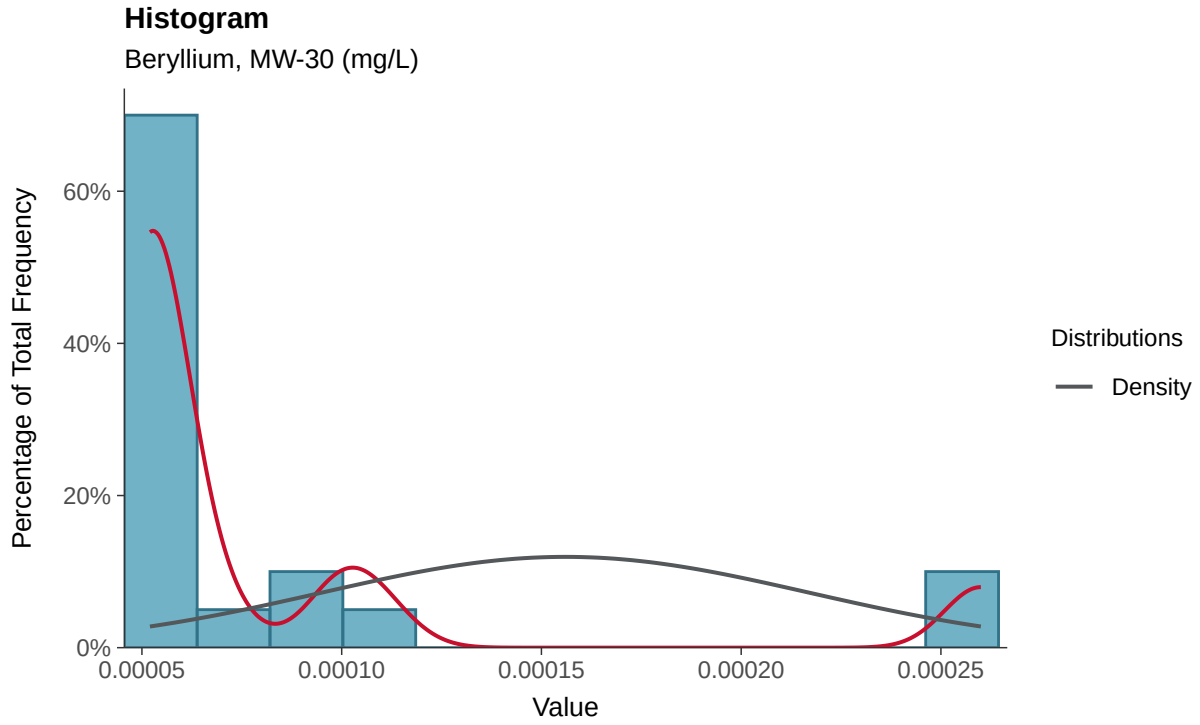
Barium, MW-30 (mg/L)



Appendix IV: Beryllium, MW-30

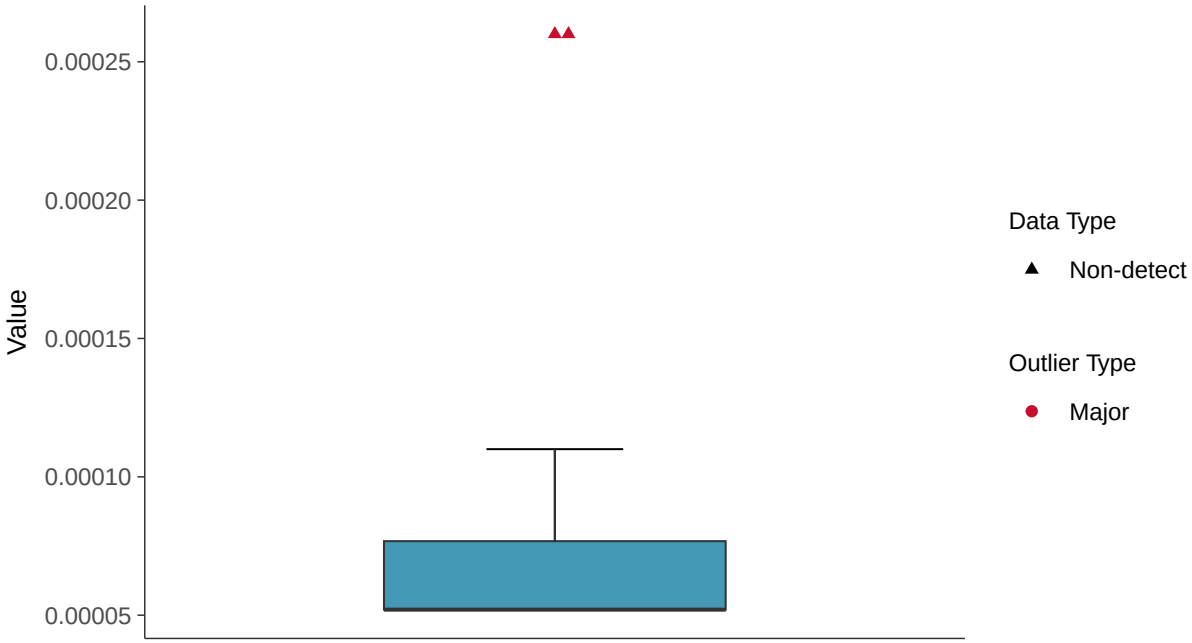
ID: 40_1_4_104





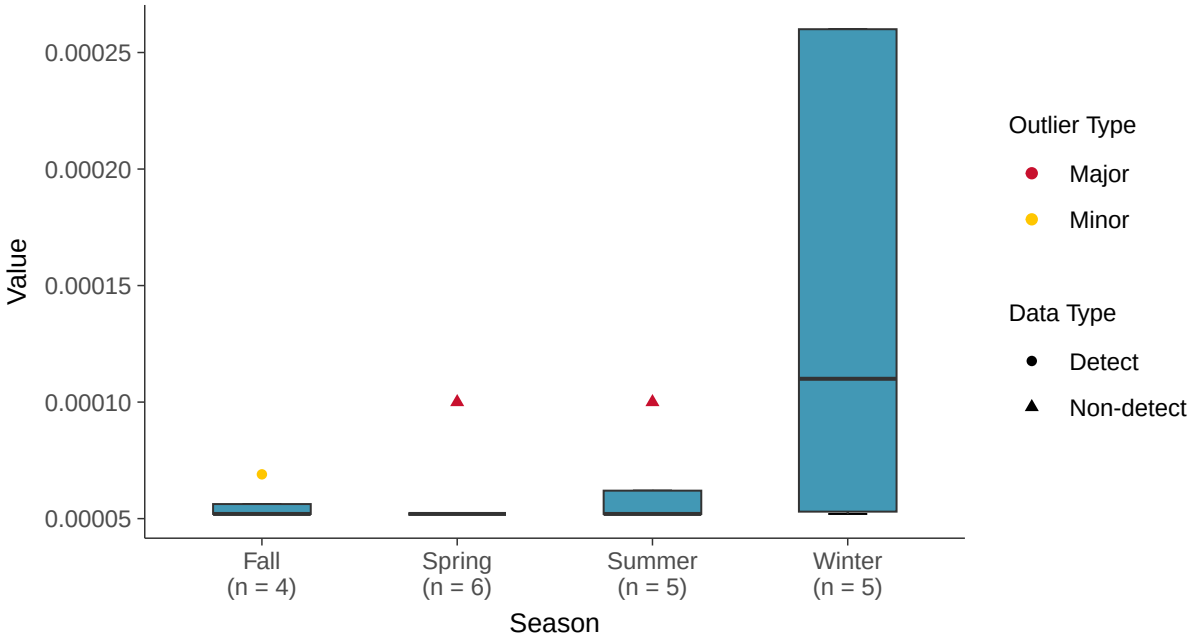
Boxplot

Beryllium, MW-30 (mg/L)



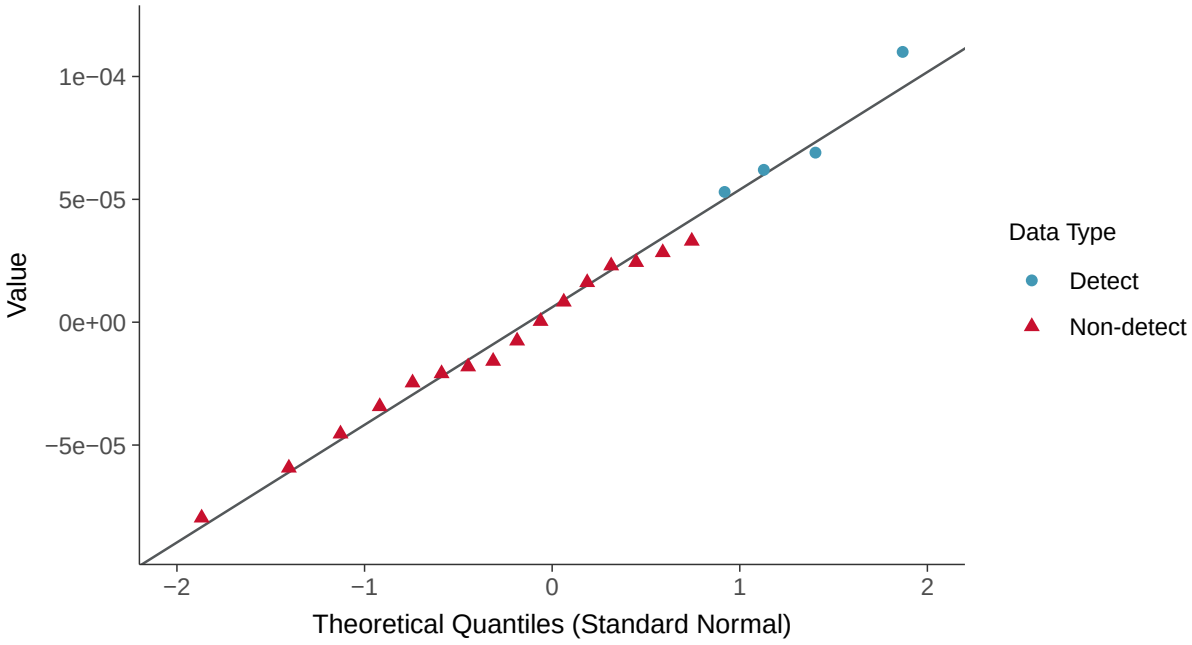
Boxplot by Season

Beryllium, MW-30 (mg/L)



Normal Q-Q plot using ROS Imputed Estimates

Beryllium, MW-30 (mg/L)

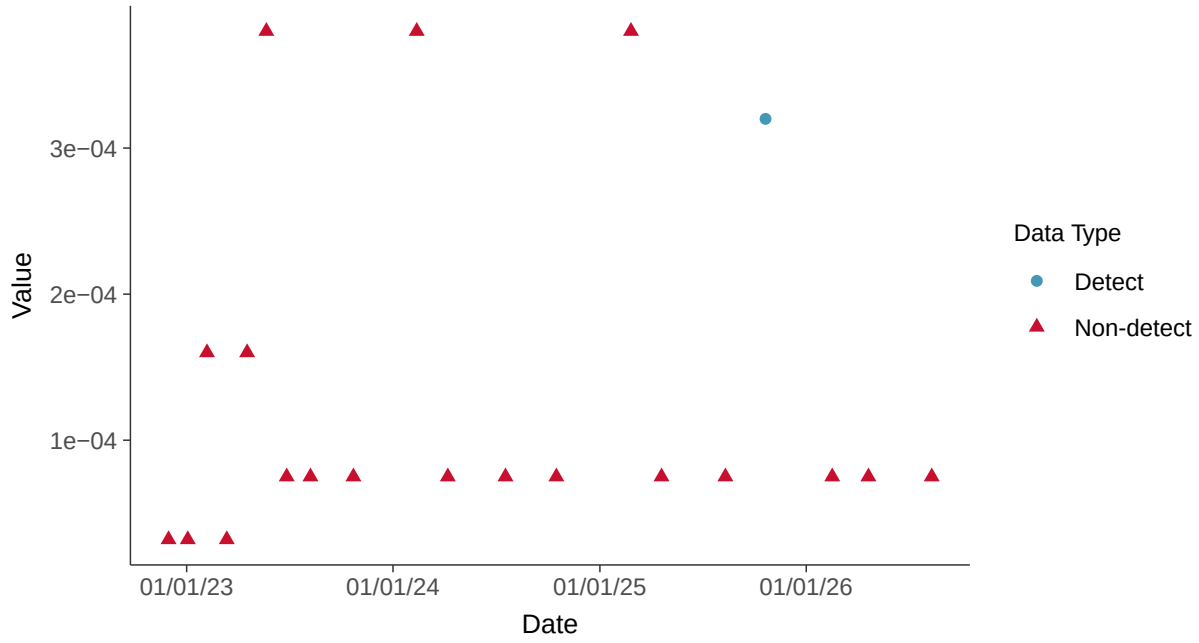


Appendix IV: Cadmium, MW-30

ID: 40_1_4_106

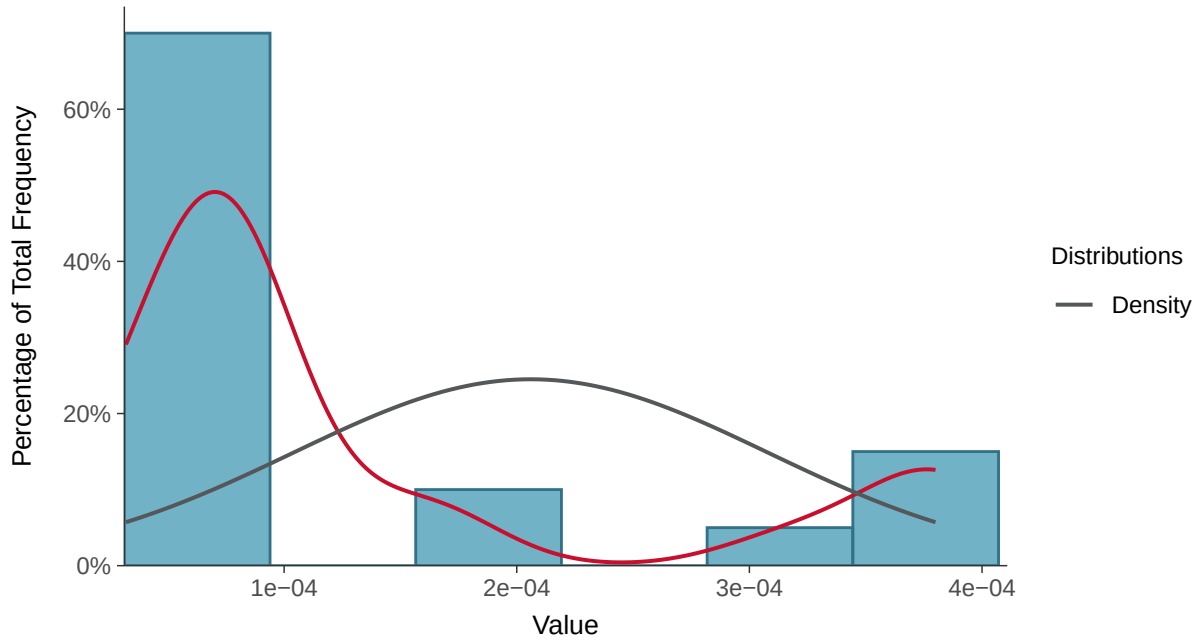
Scatter Plot

Cadmium, MW-30 (mg/L)



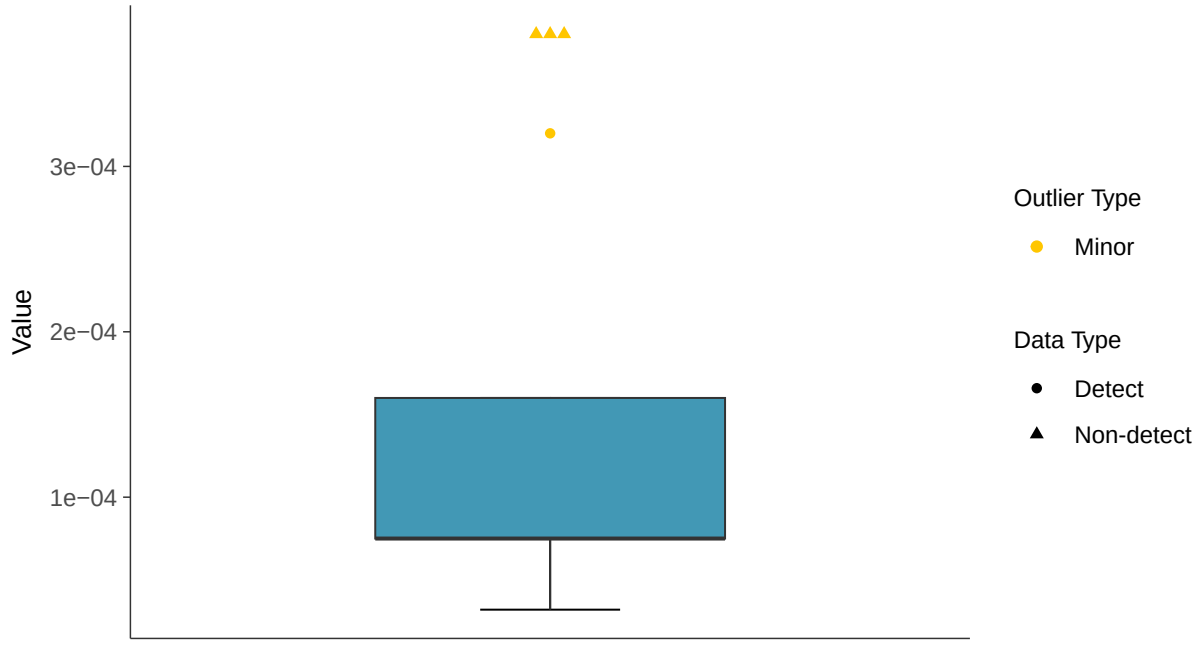
Histogram

Cadmium, MW-30 (mg/L)



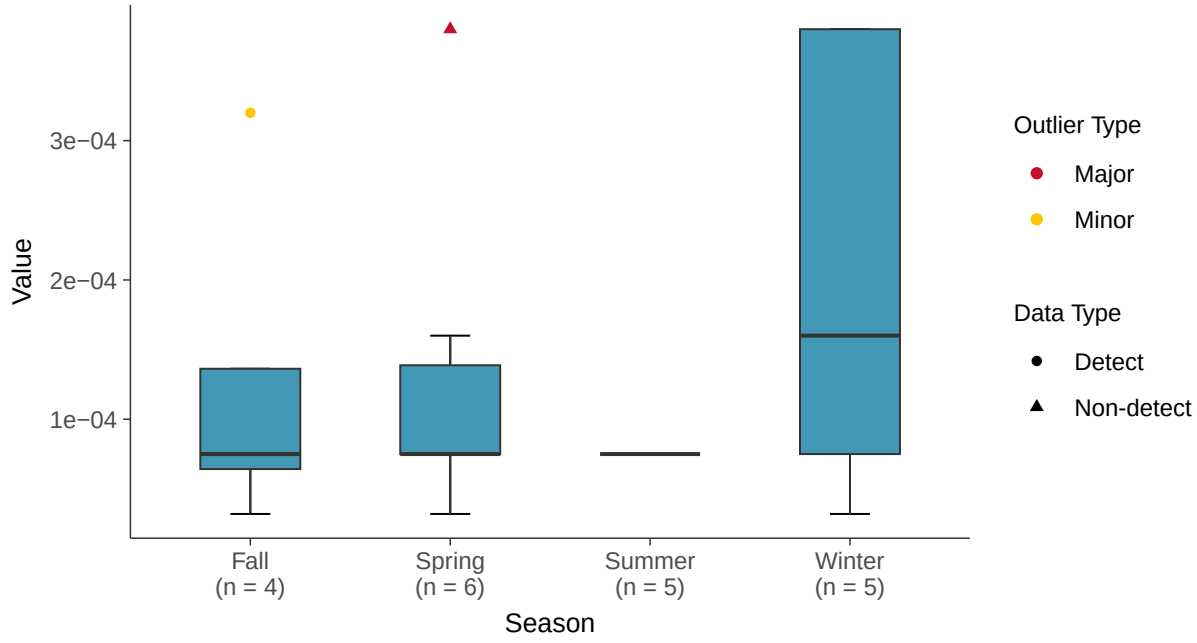
Boxplot

Cadmium, MW-30 (mg/L)



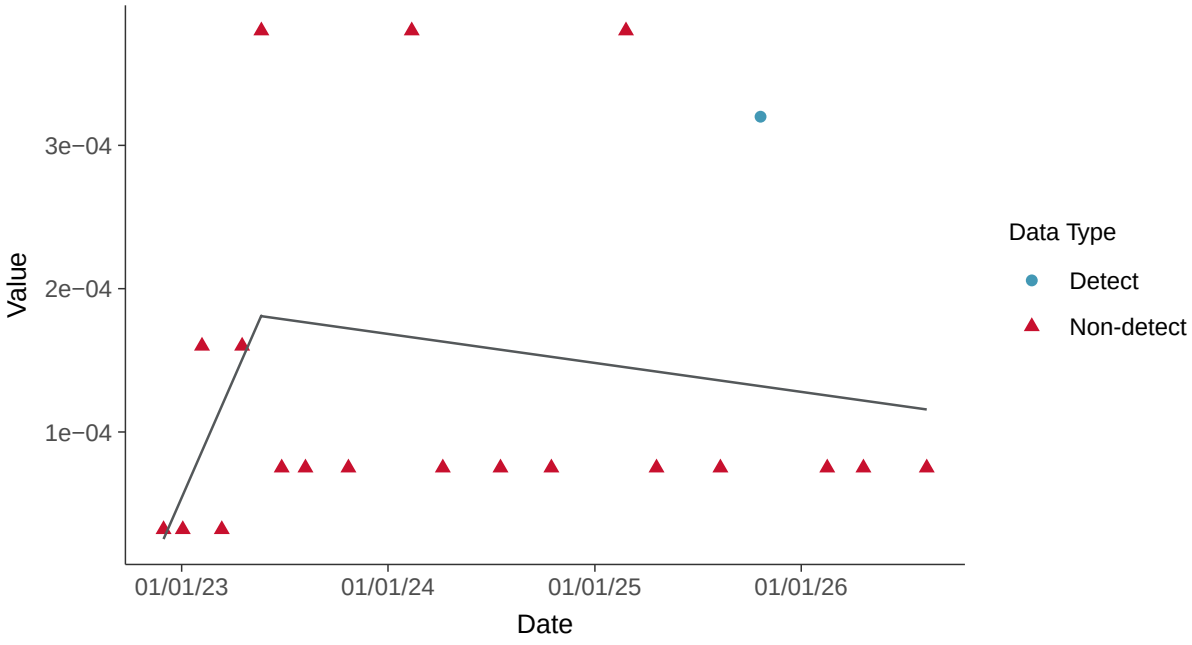
Boxplot by Season

Cadmium, MW-30 (mg/L)



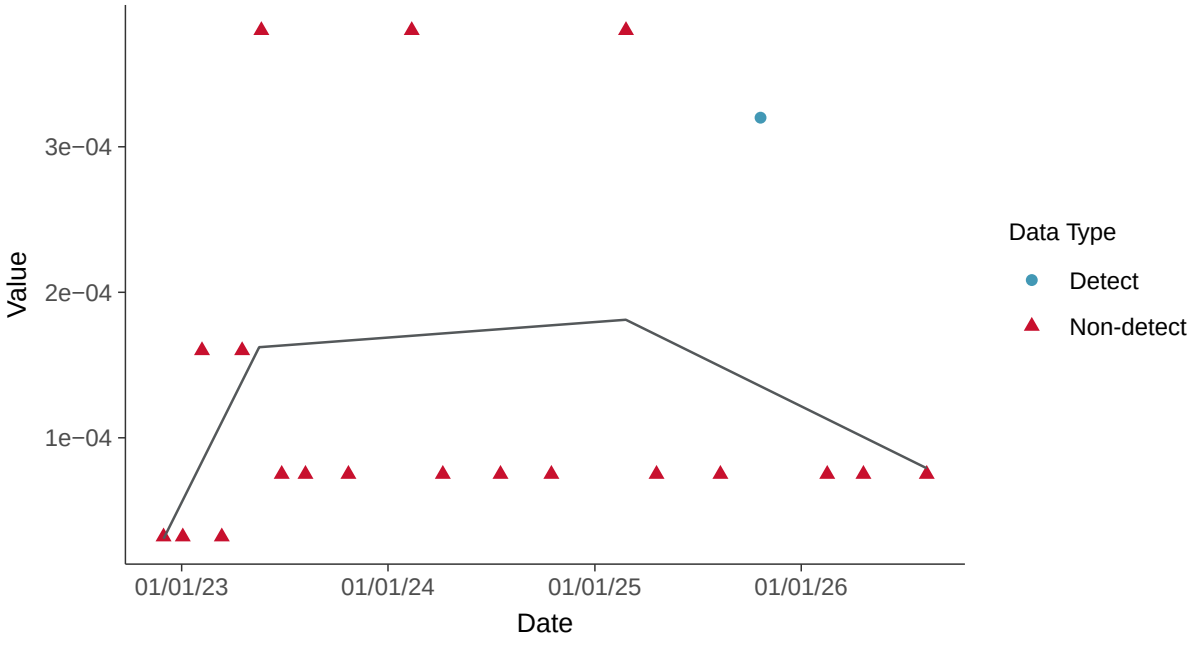
Trend Regression: Piecewise Linear-Linear

Cadmium, MW-30 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Cadmium, MW-30 (mg/L)

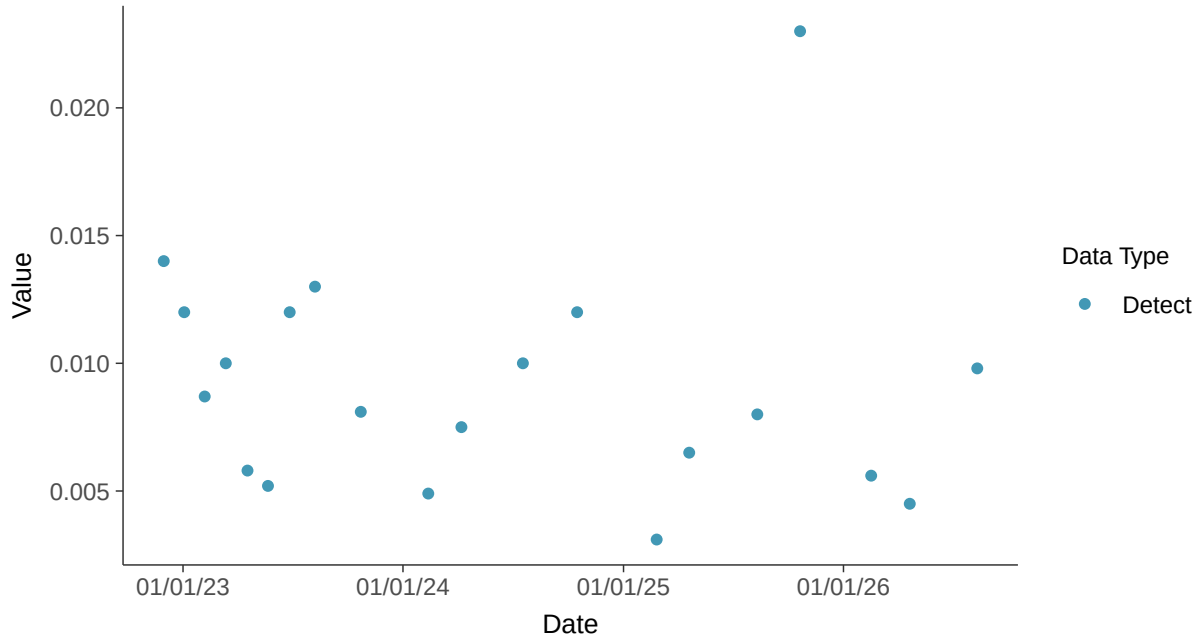


Appendix IV: Chromium, Total, MW-30

ID: 40_1_4_109

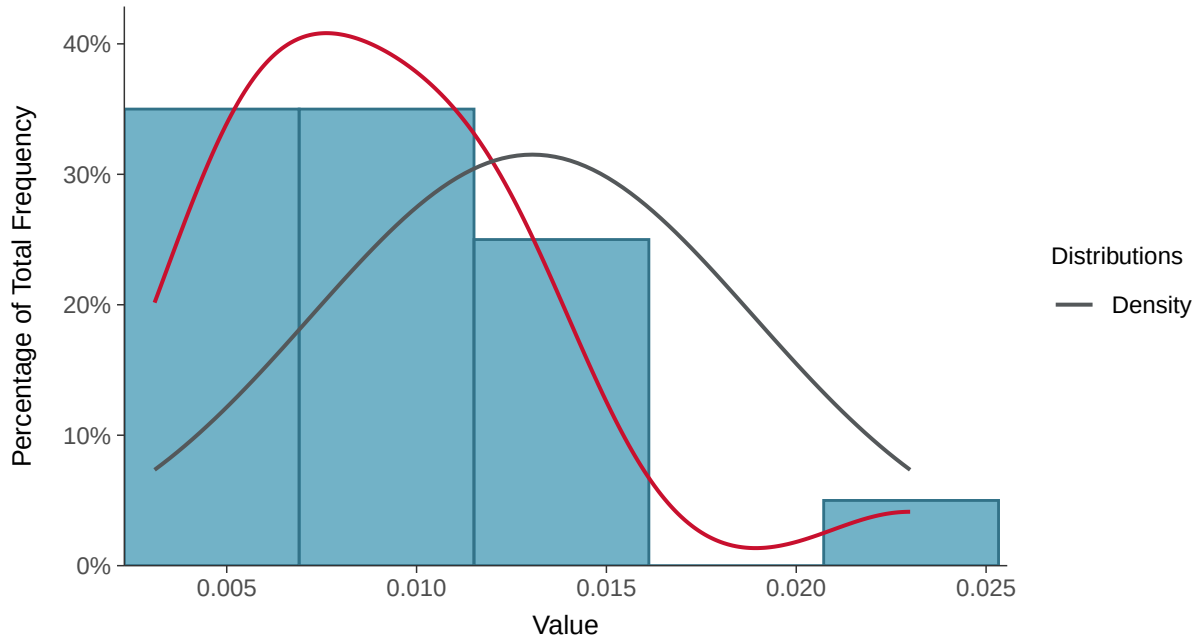
Scatter Plot

Chromium, Total, MW-30 (mg/L)



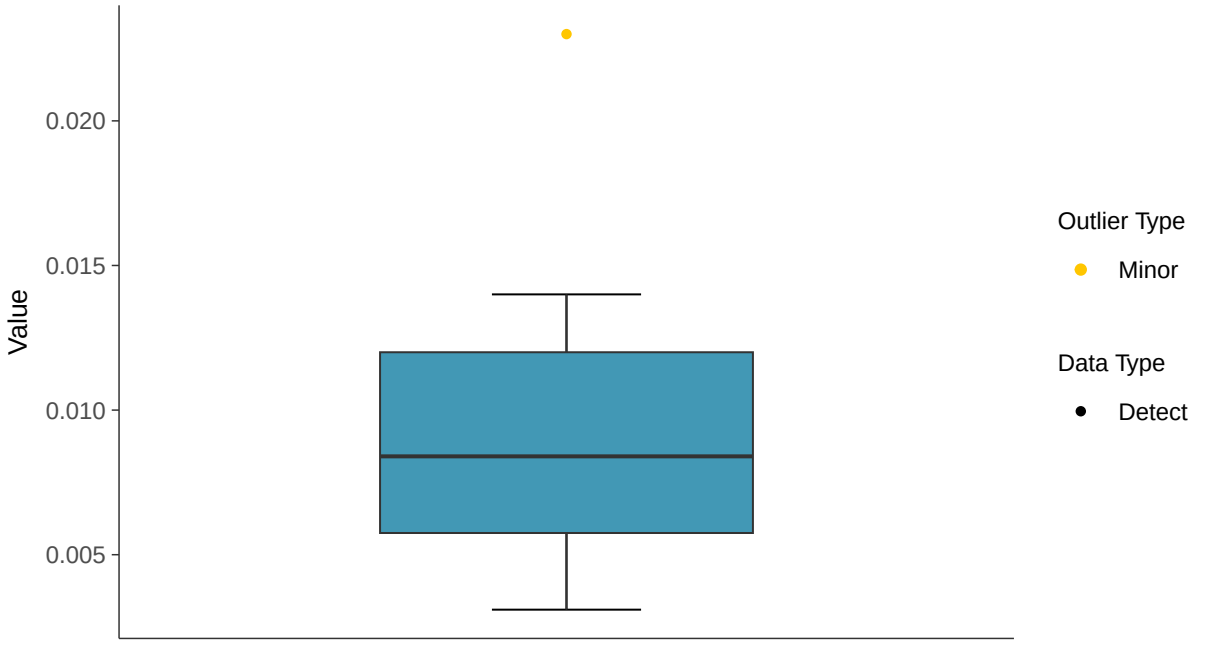
Histogram

Chromium, Total, MW-30 (mg/L)



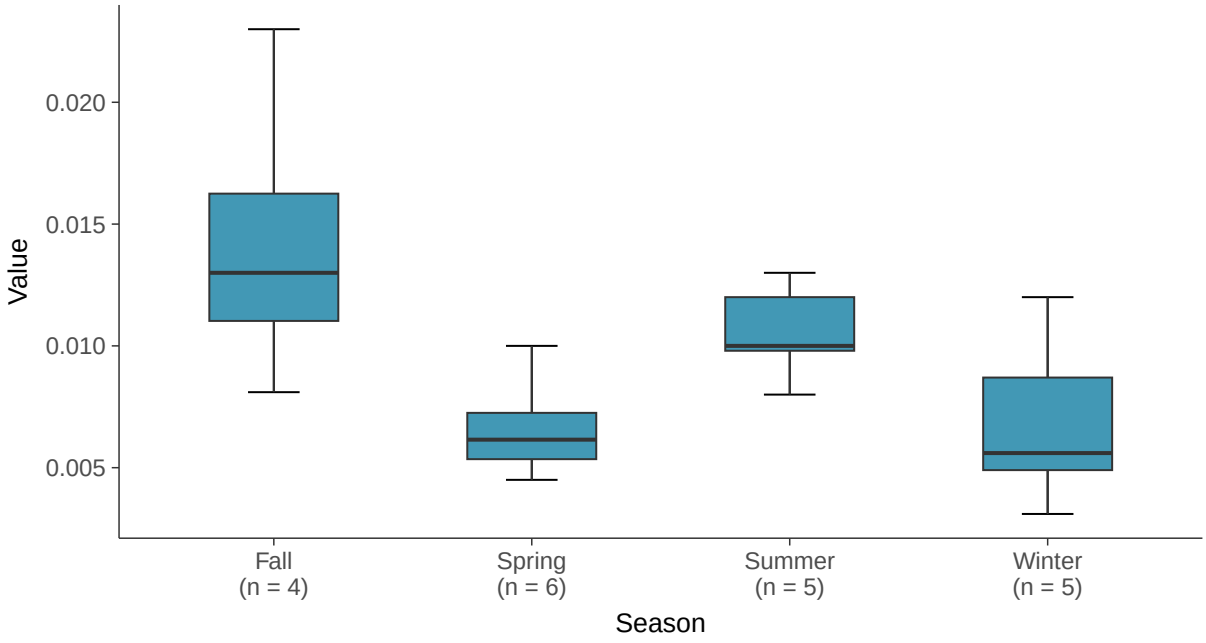
Boxplot

Chromium, Total, MW-30 (mg/L)



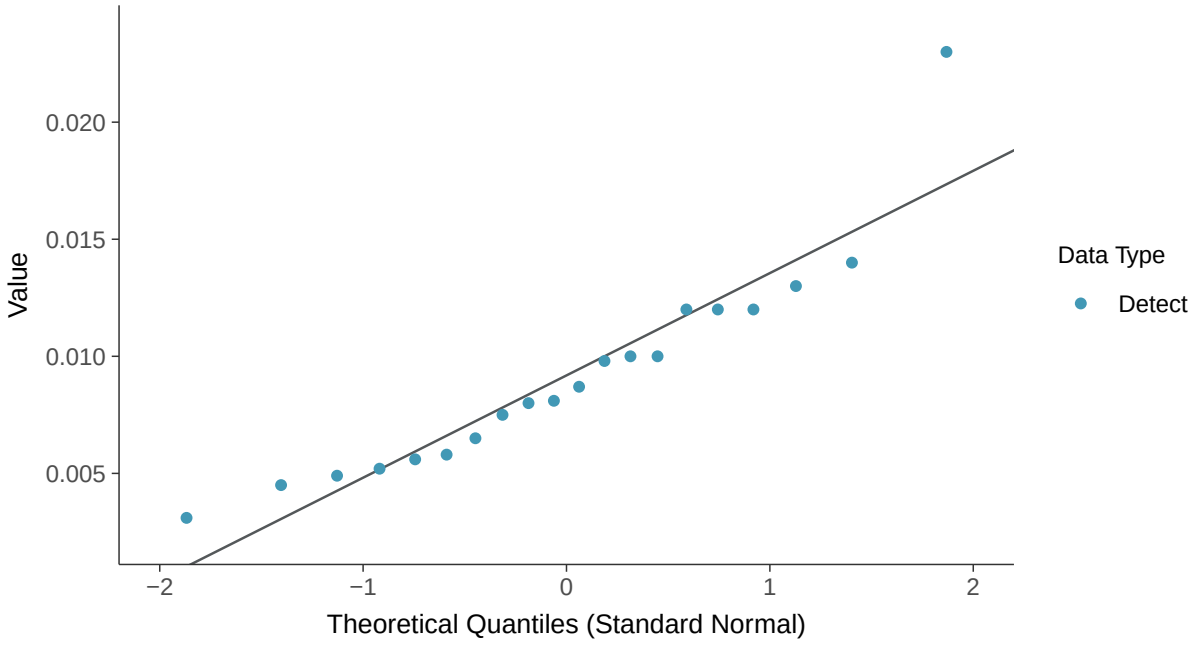
Boxplot by Season

Chromium, Total, MW-30 (mg/L)



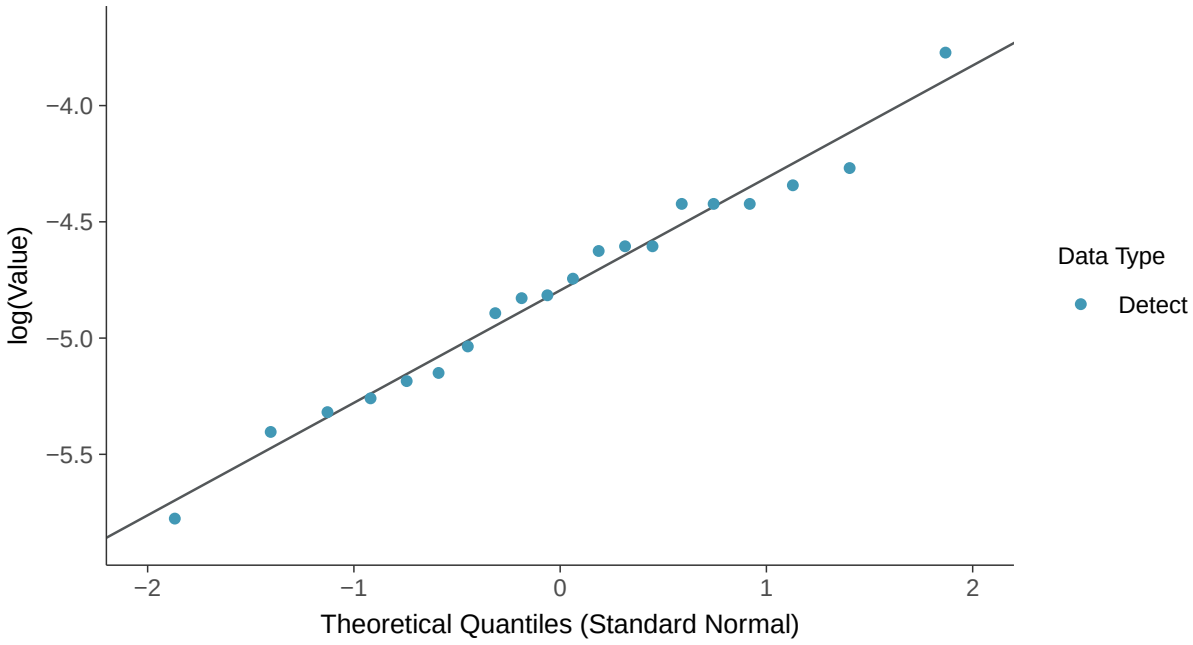
Normal Q-Q plot

Chromium, Total, MW-30 (mg/L)



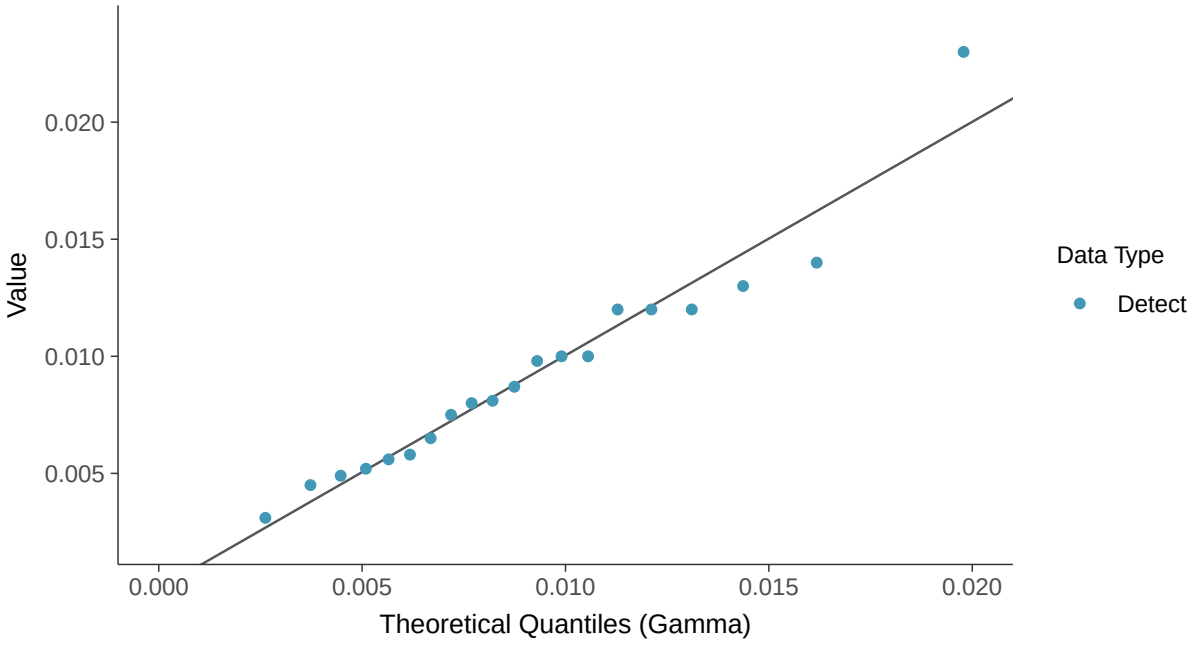
Lognormal Q-Q plot

Chromium, Total, MW-30 (mg/L)



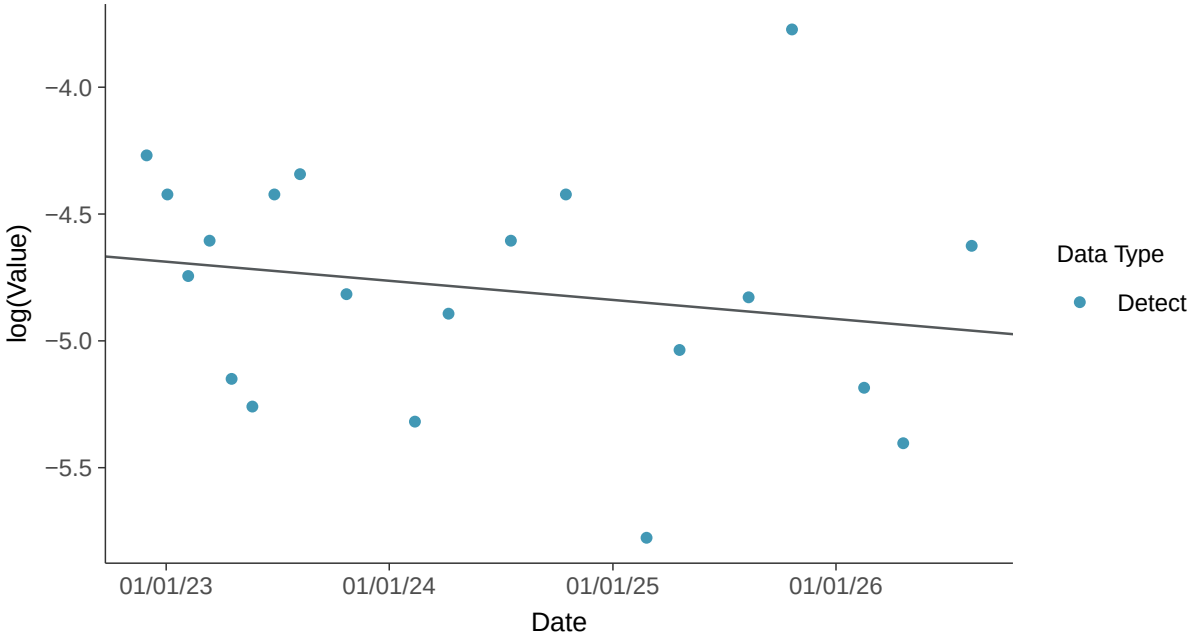
Gamma Q-Q plot

Chromium, Total, MW-30 (mg/L)



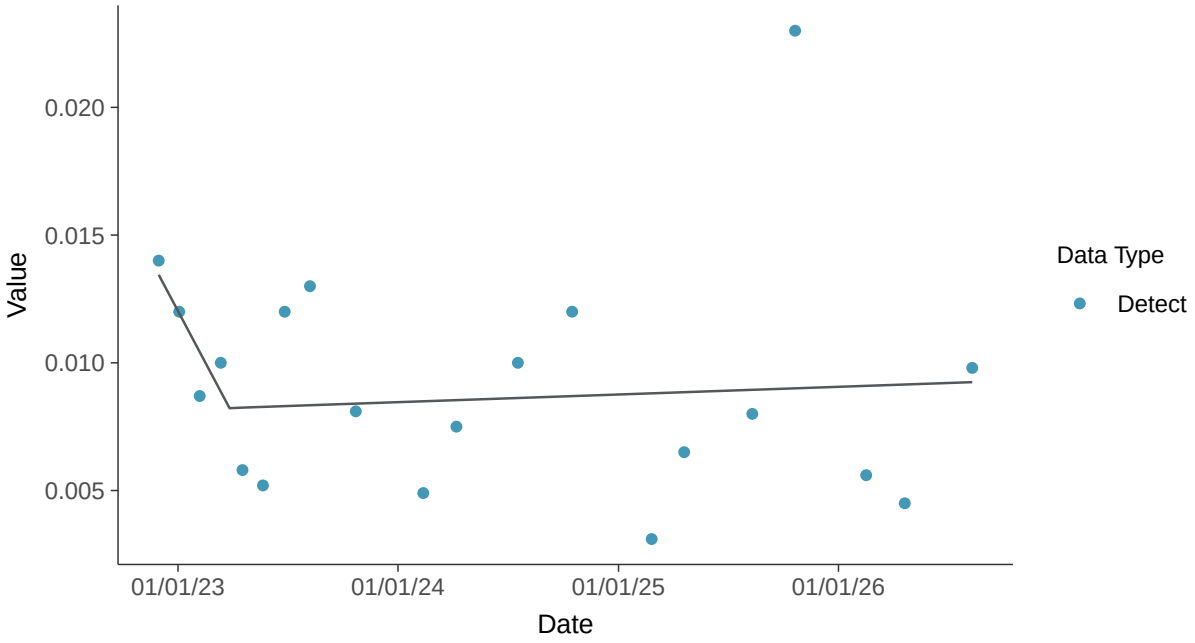
Trend Regression: Lognormal MLE

Chromium, Total, MW-30 (mg/L)



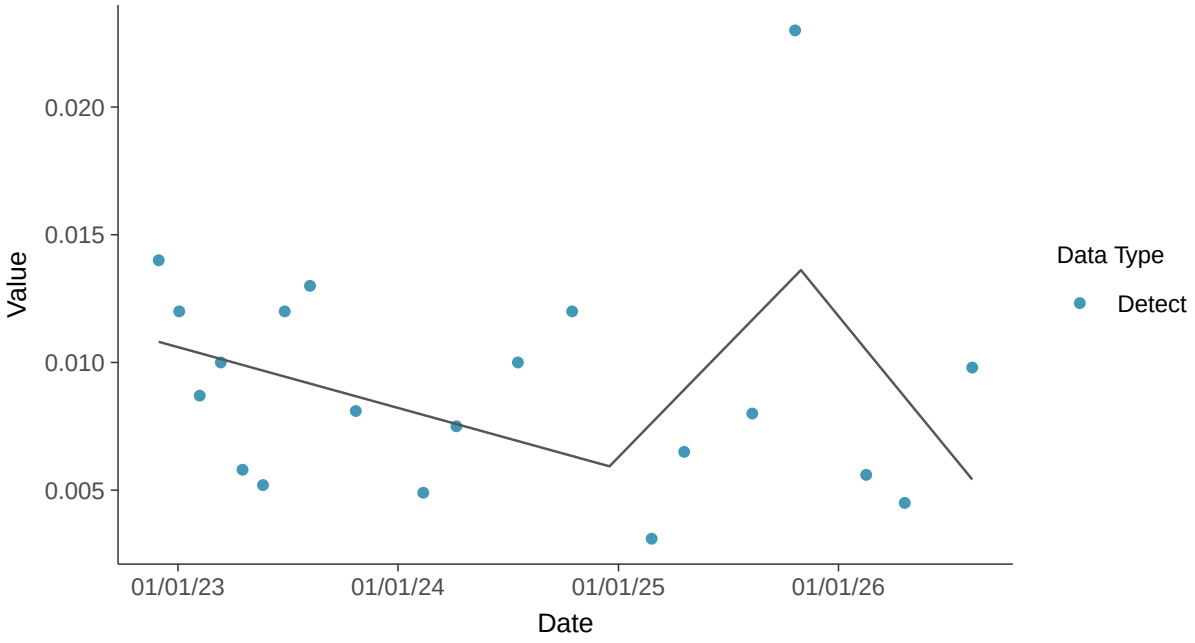
Trend Regression: Piecewise Linear-Linear

Chromium, Total, MW-30 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Chromium, Total, MW-30 (mg/L)

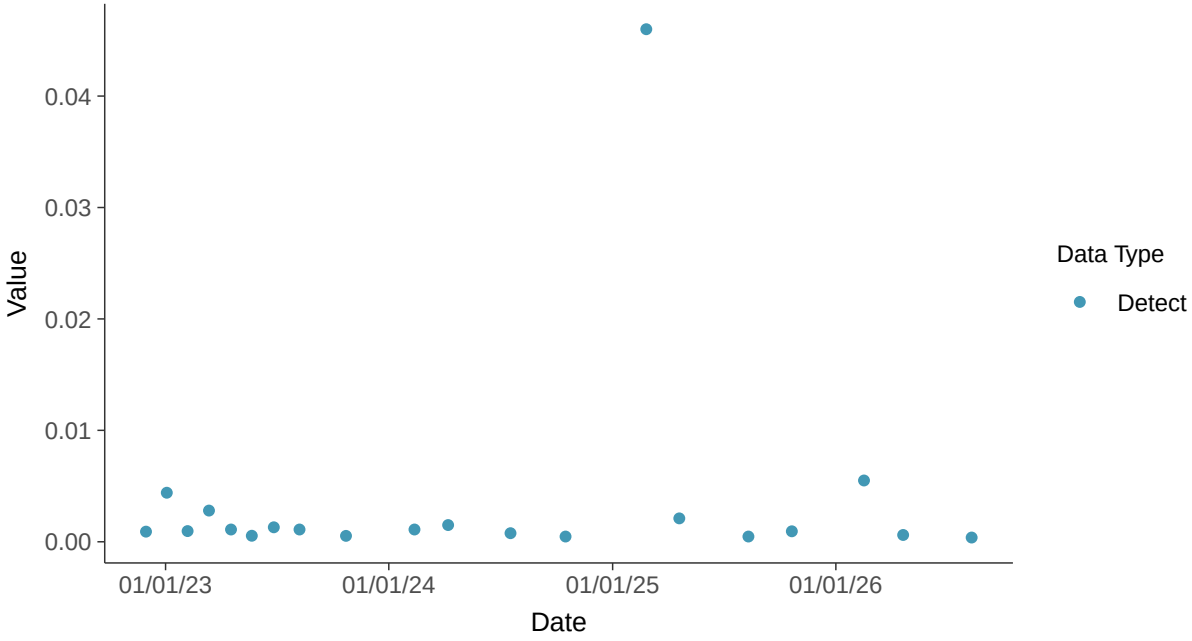


Appendix IV: Cobalt, MW-30

ID: 40_1_4_110

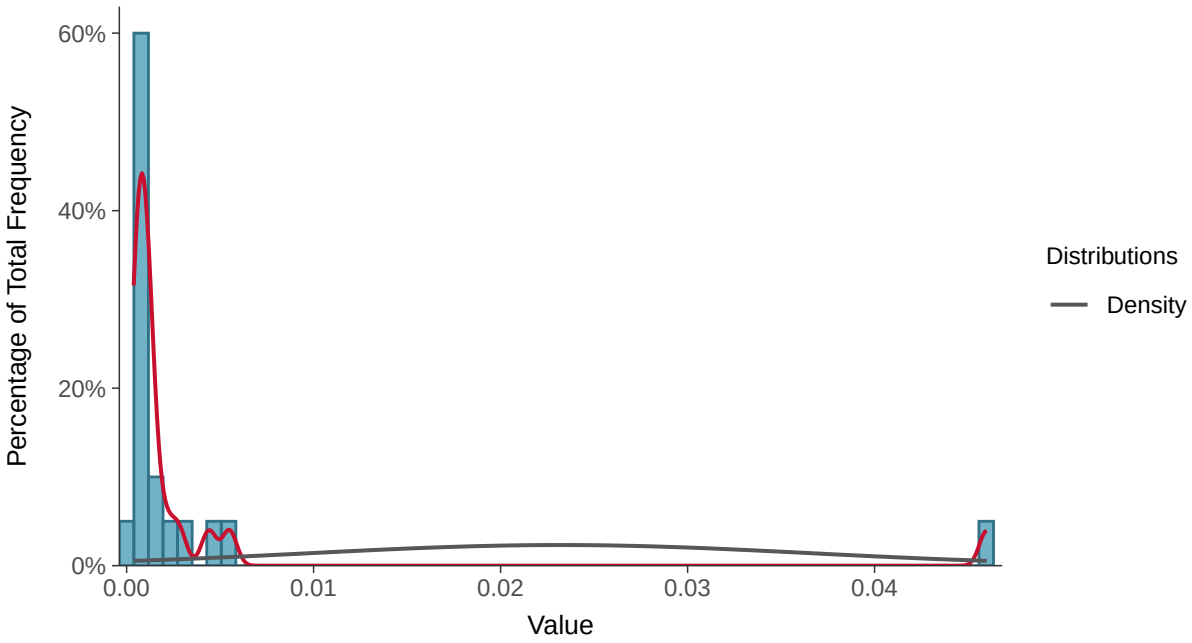
Scatter Plot

Cobalt, MW-30 (mg/L)



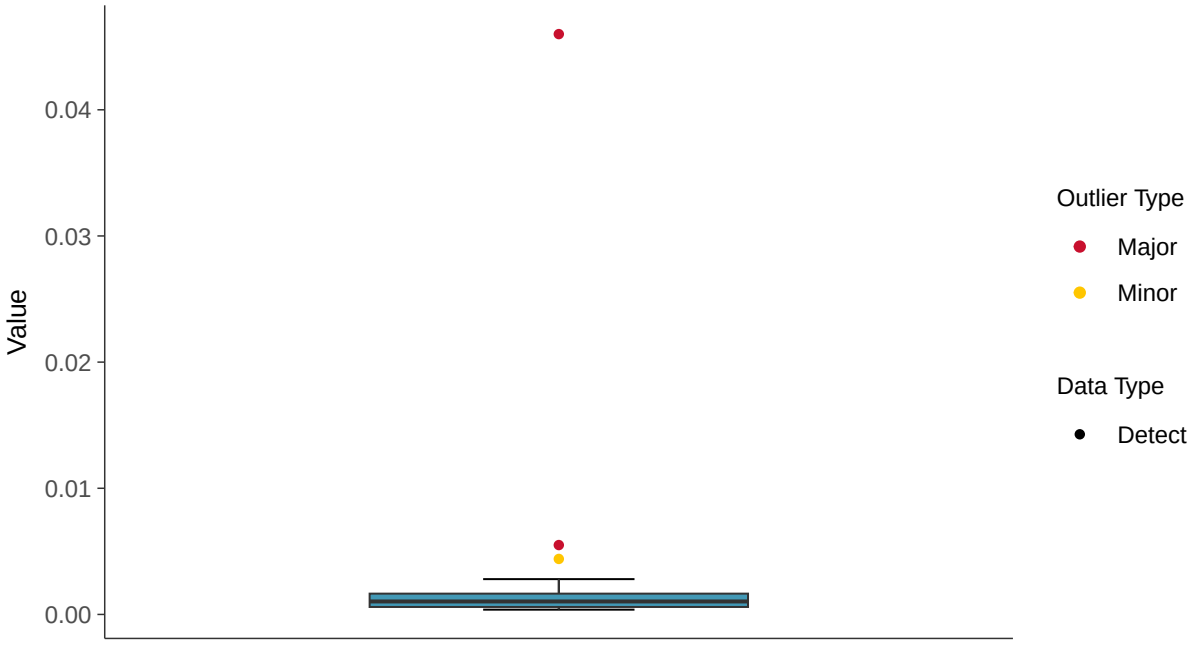
Histogram

Cobalt, MW-30 (mg/L)



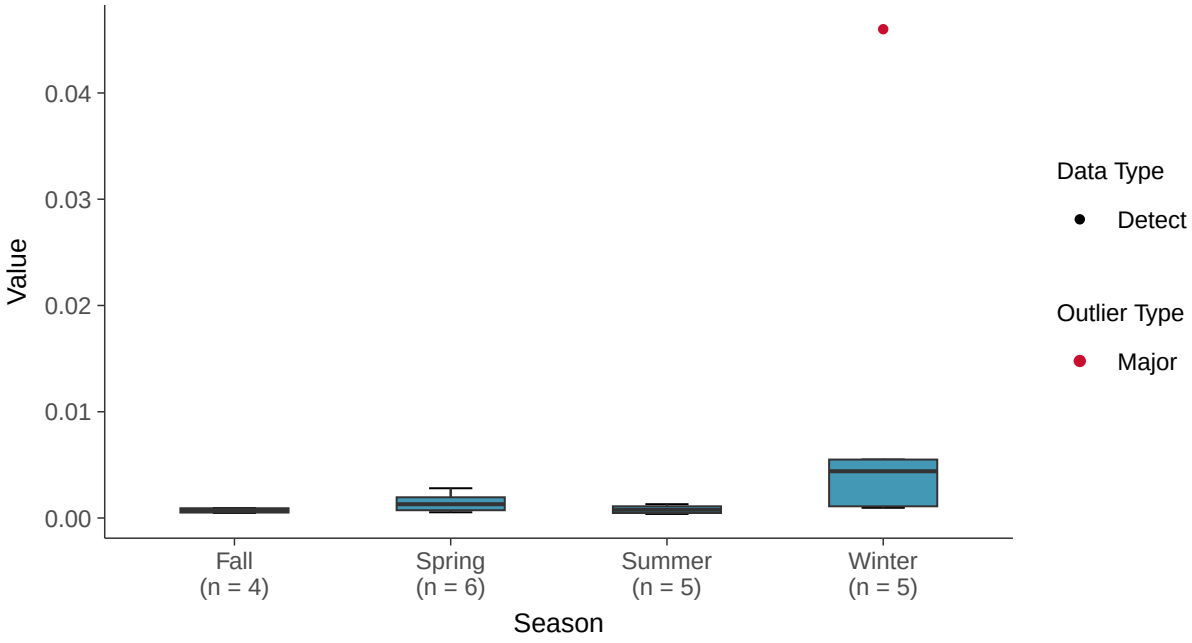
Boxplot

Cobalt, MW-30 (mg/L)



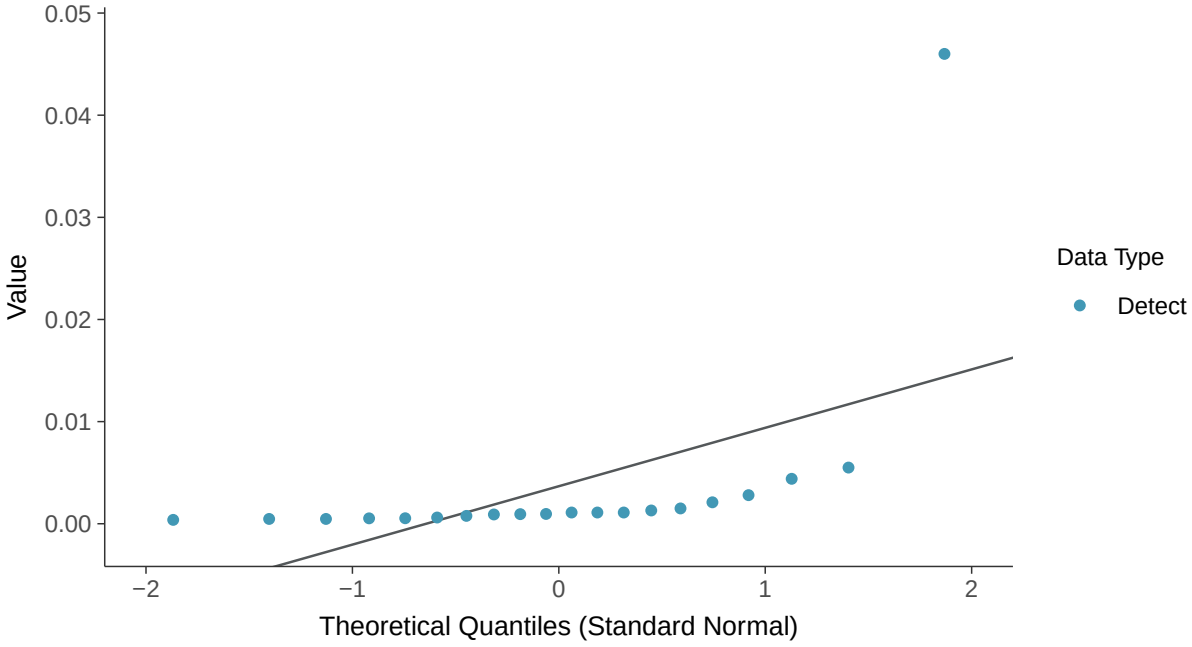
Boxplot by Season

Cobalt, MW-30 (mg/L)



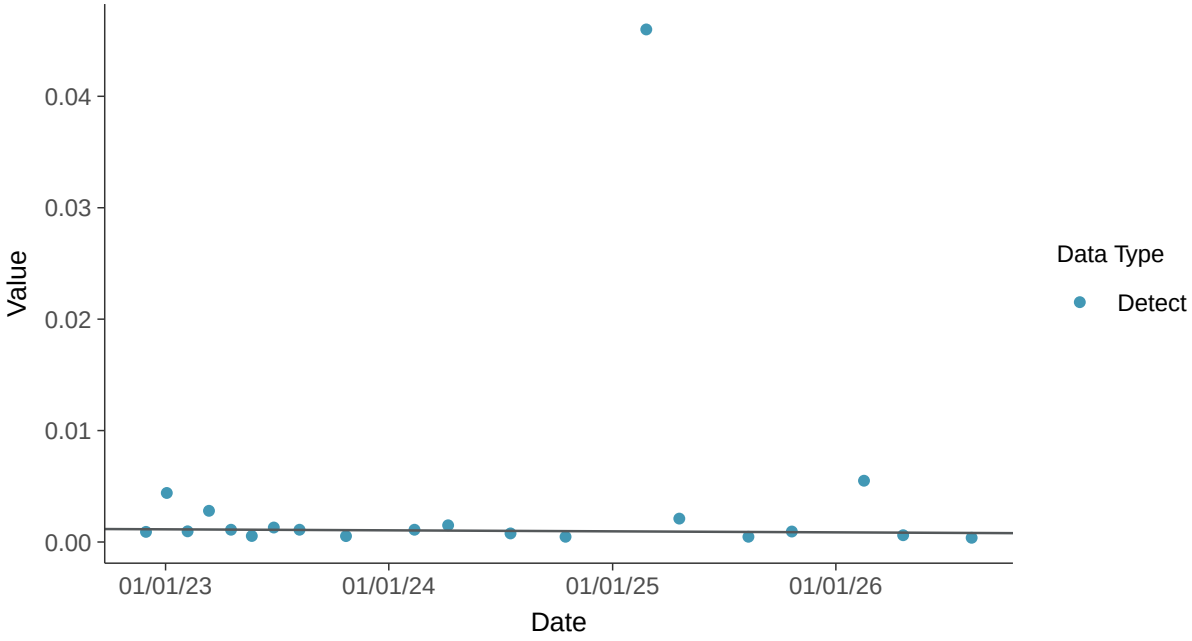
Normal Q-Q plot

Cobalt, MW-30 (mg/L)



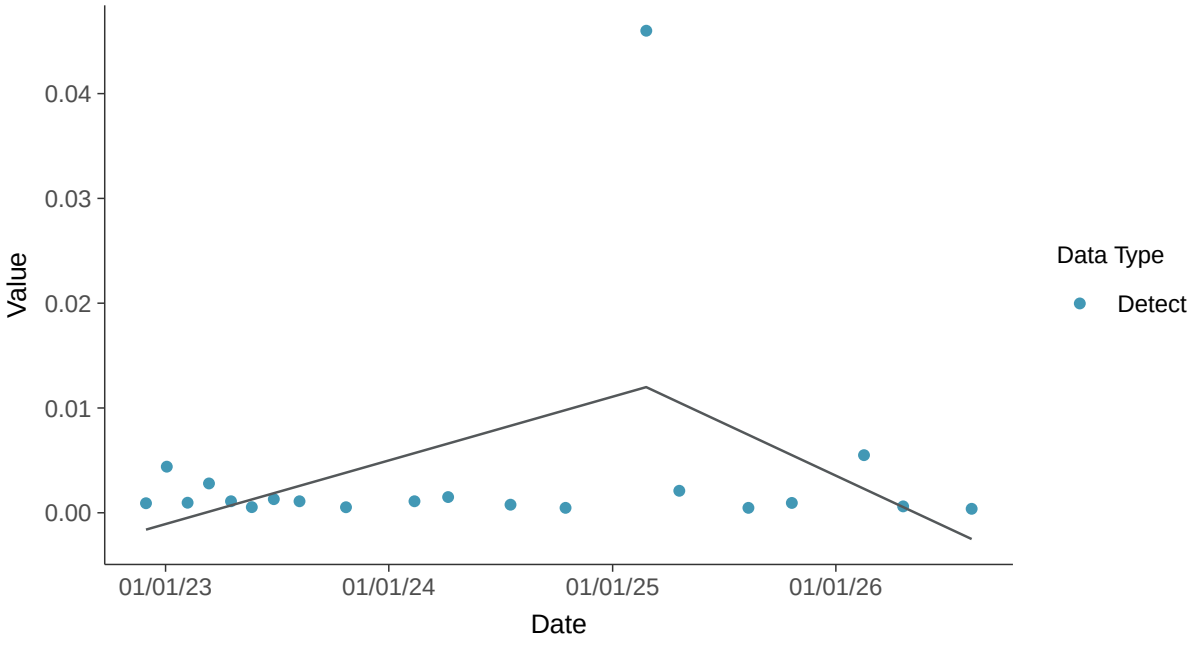
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Cobalt, MW-30 (mg/L)



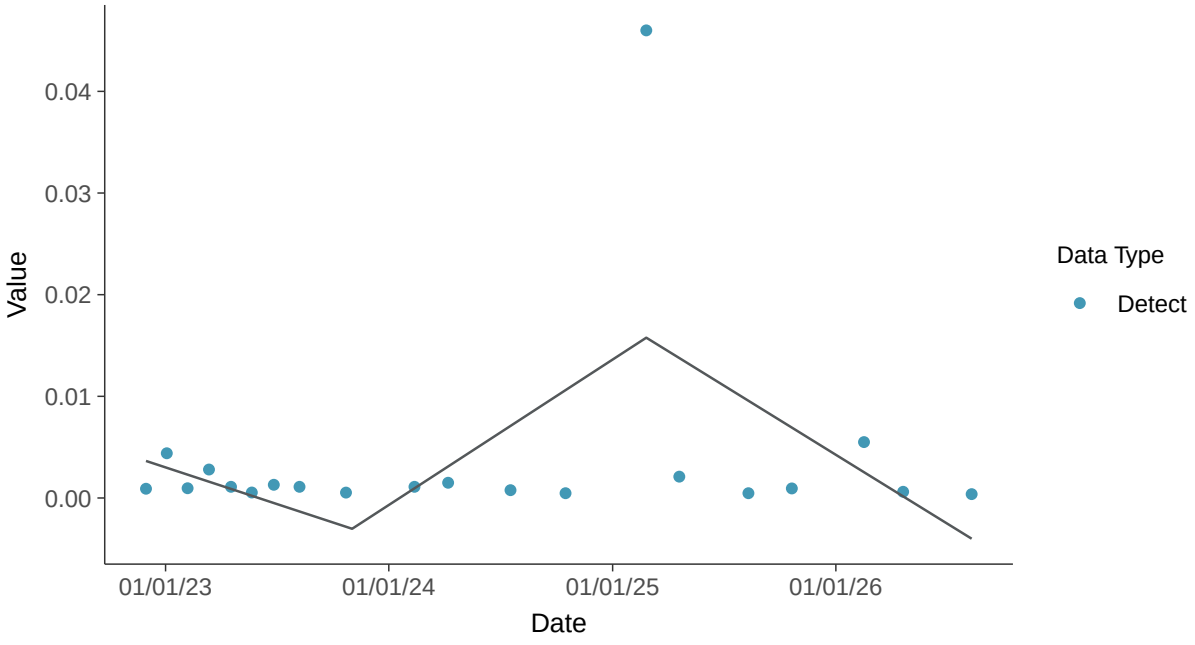
Trend Regression: Piecewise Linear-Linear

Cobalt, MW-30 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Cobalt, MW-30 (mg/L)

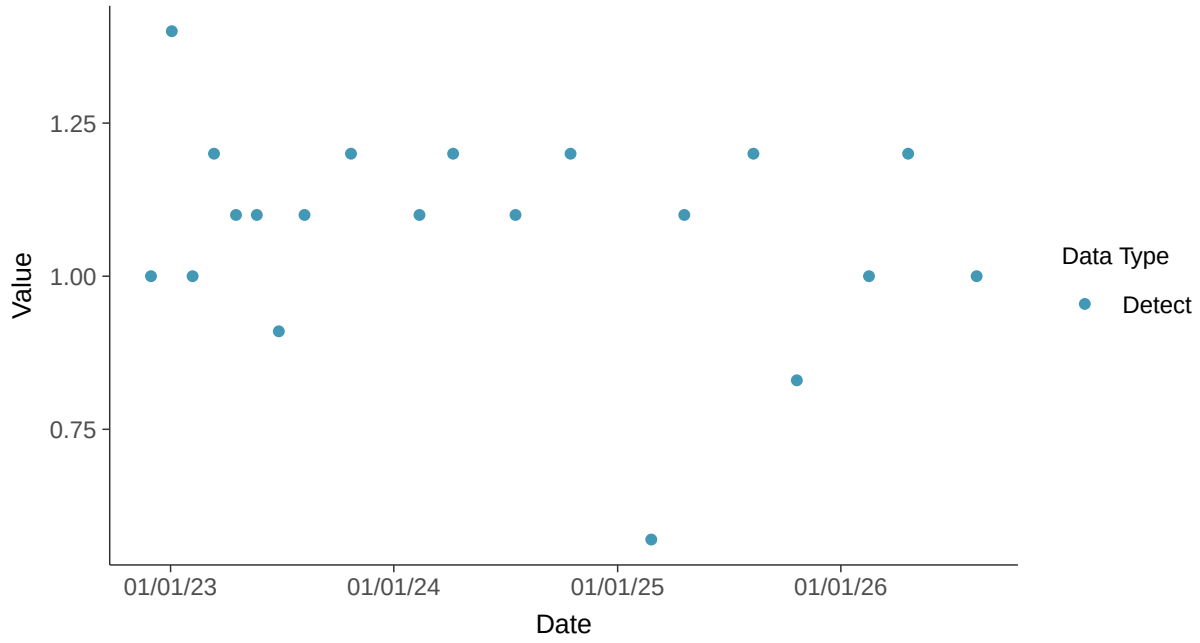


Appendix IV: Fluoride (App IV), MW-30

ID: 40_1_4_113

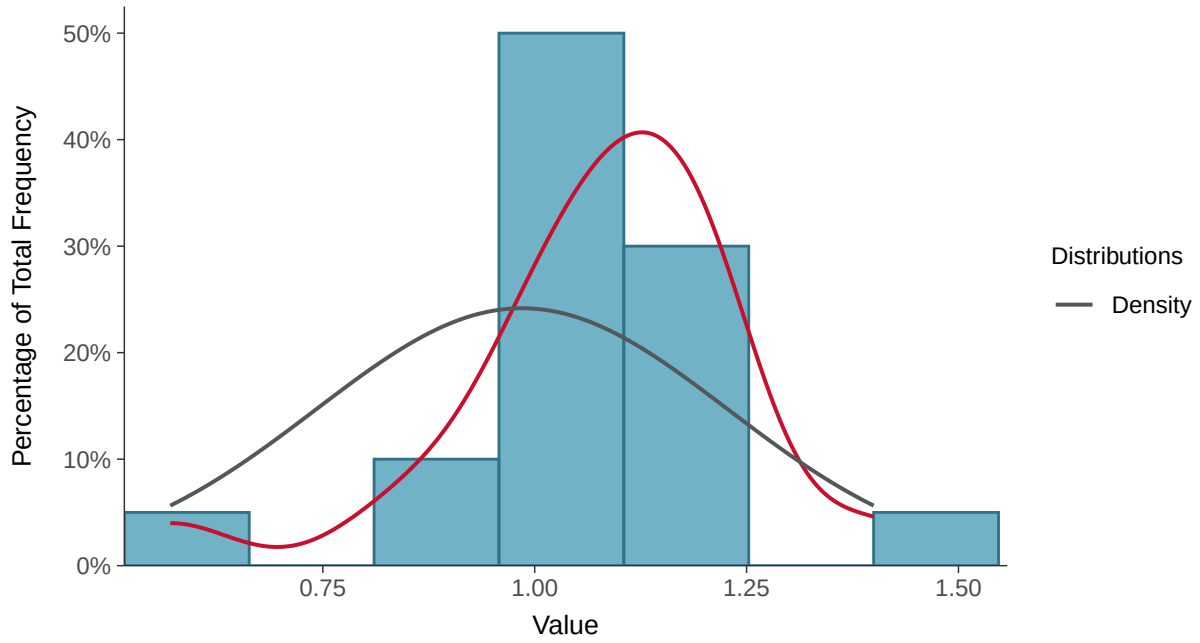
Scatter Plot

Fluoride (App IV), MW-30 (mg/L)



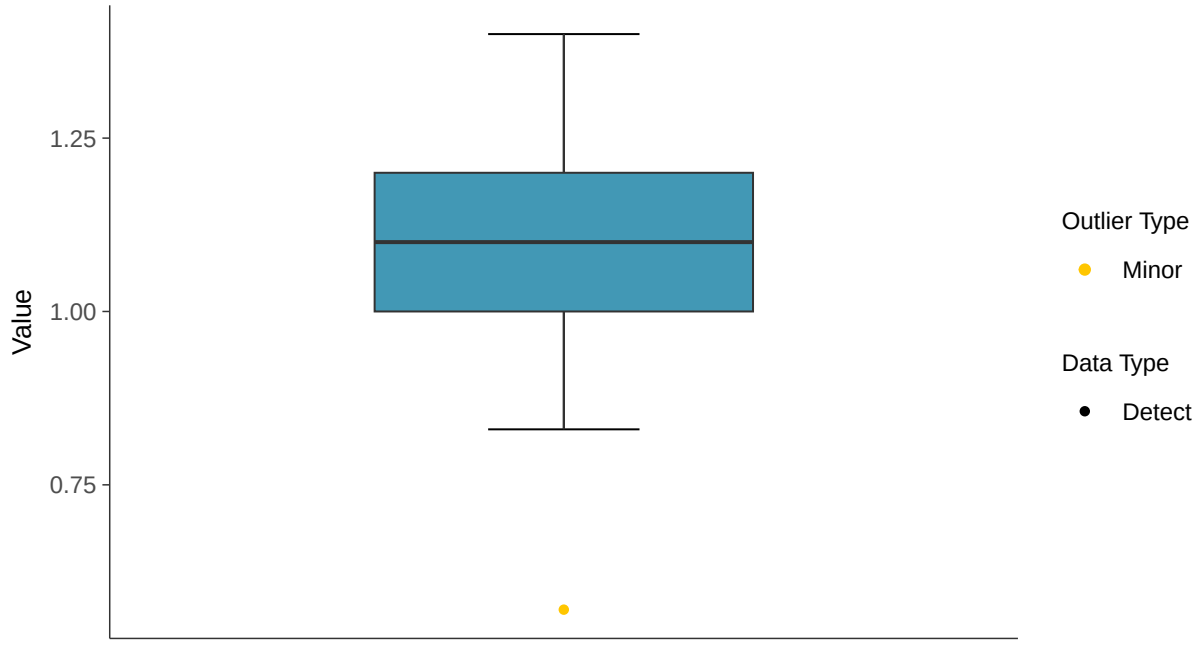
Histogram

Fluoride (App IV), MW-30 (mg/L)



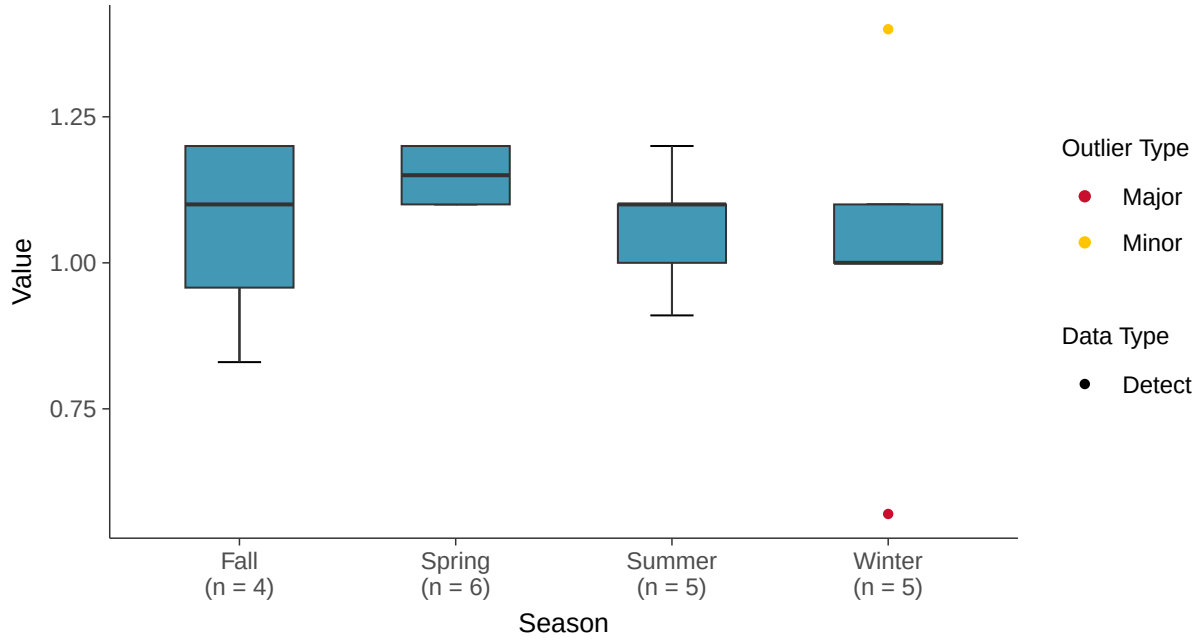
Boxplot

Fluoride (App IV), MW-30 (mg/L)



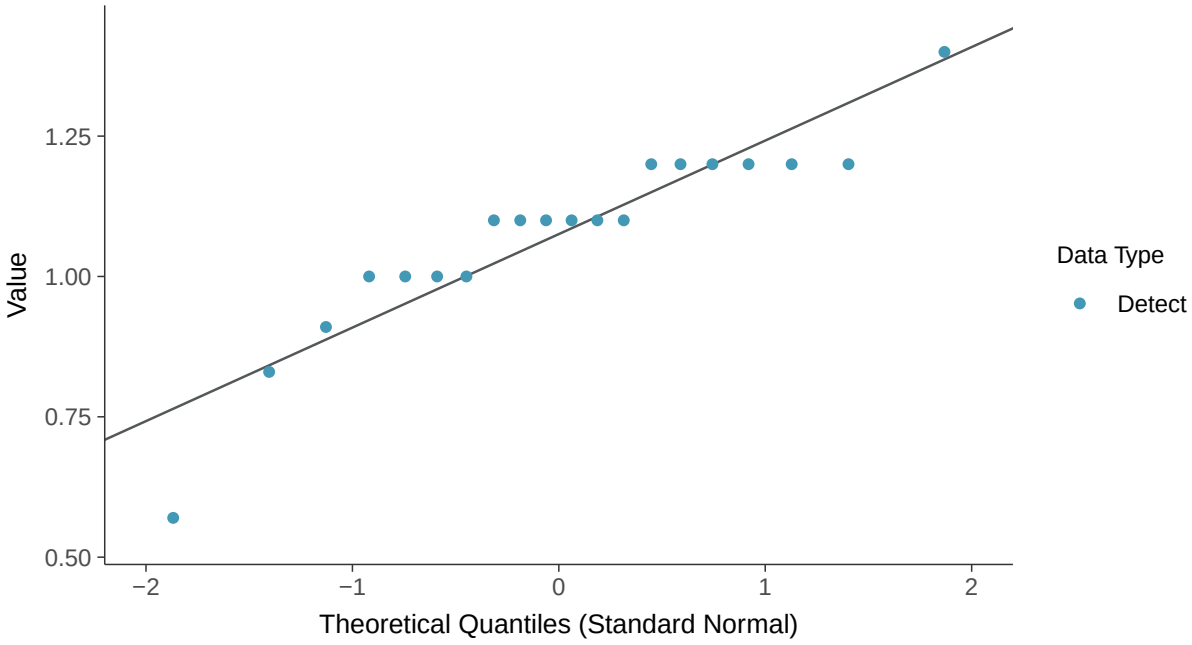
Boxplot by Season

Fluoride (App IV), MW-30 (mg/L)



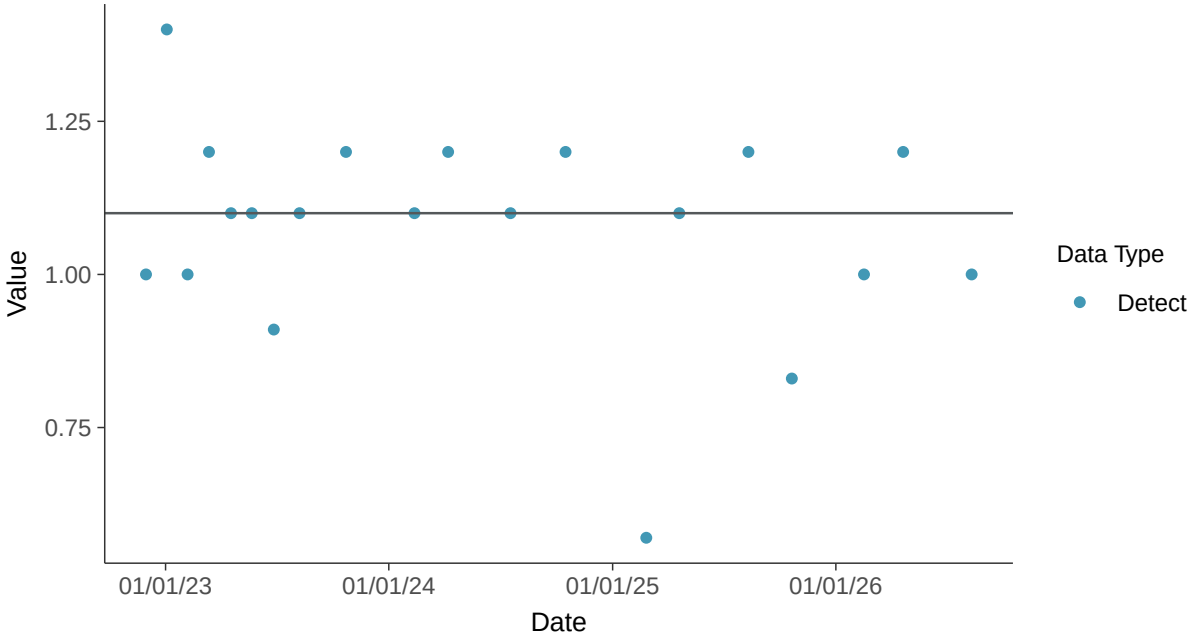
Normal Q-Q plot

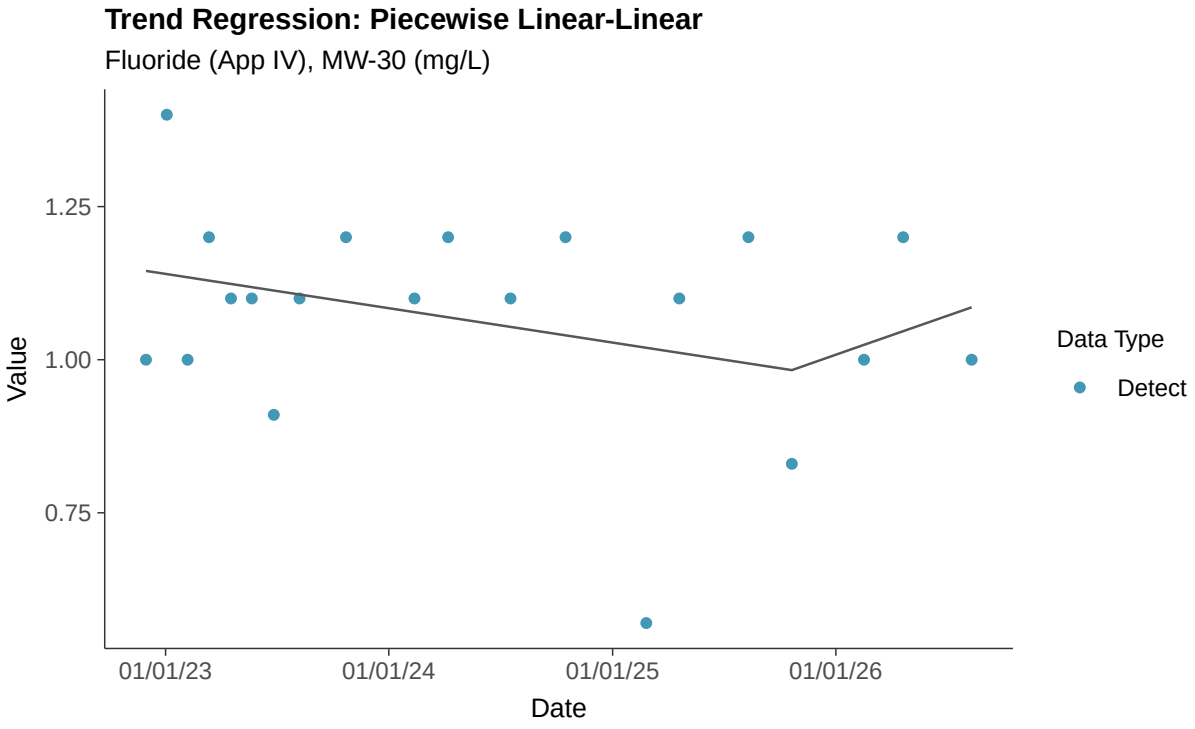
Fluoride (App IV), MW-30 (mg/L)



Trend Regression: Mann-Kendall/Theil-Sen Estimate

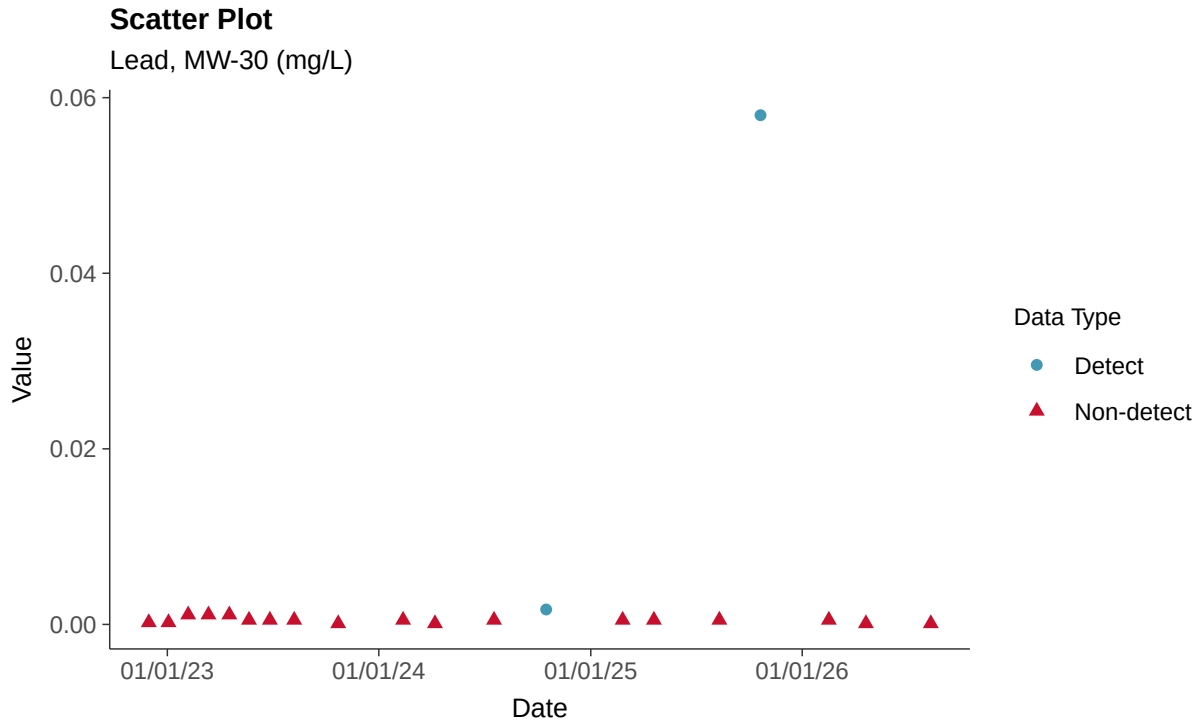
Fluoride (App IV), MW-30 (mg/L)

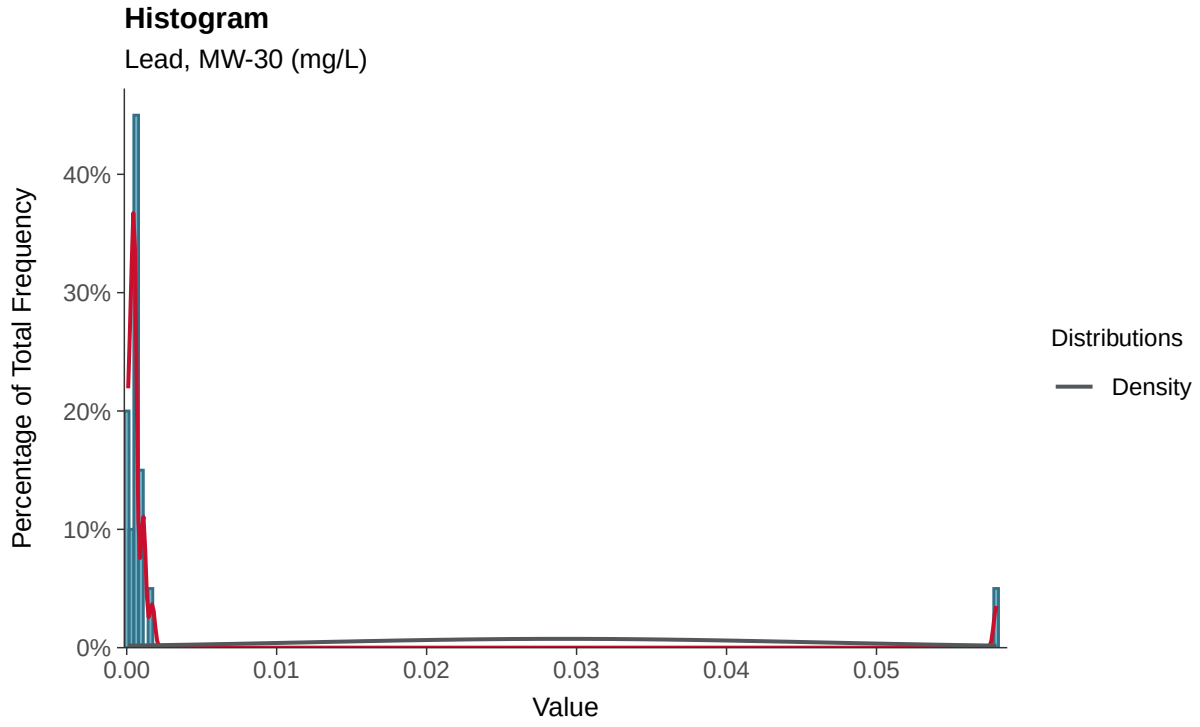



Trend Regression: Piecewise Linear-Linear
Fluoride (App IV), MW-30 (mg/L)
Value
1.25
1.00
0.75
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect

Appendix IV: Lead, MW-30

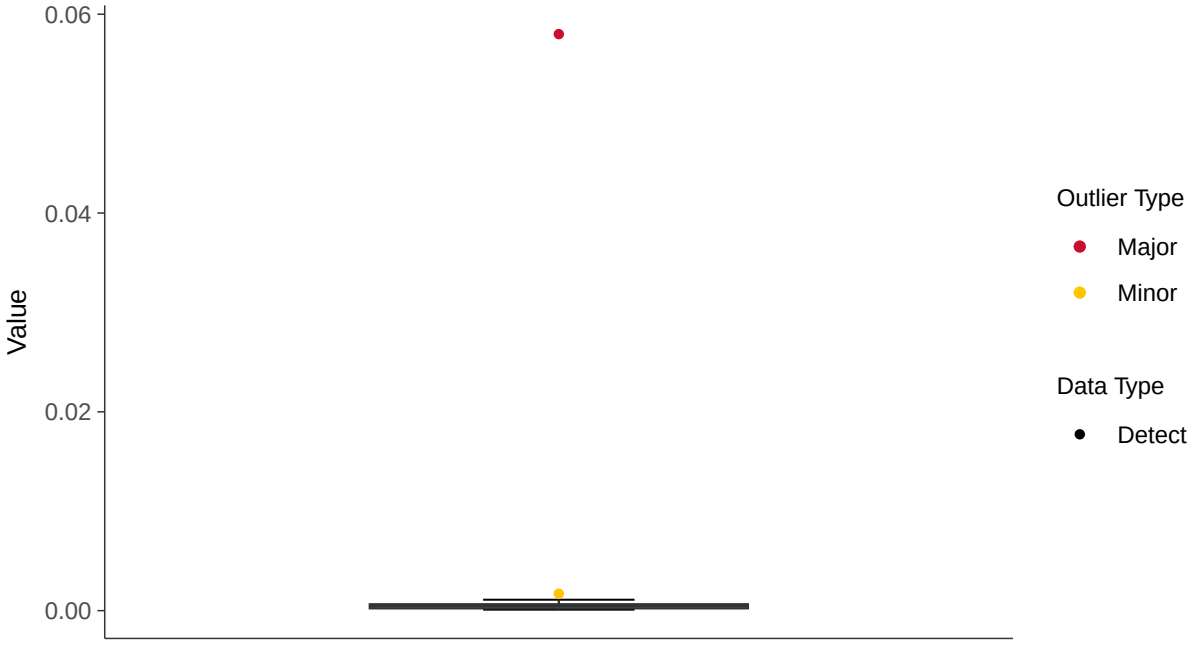
ID: 40_1_4_115





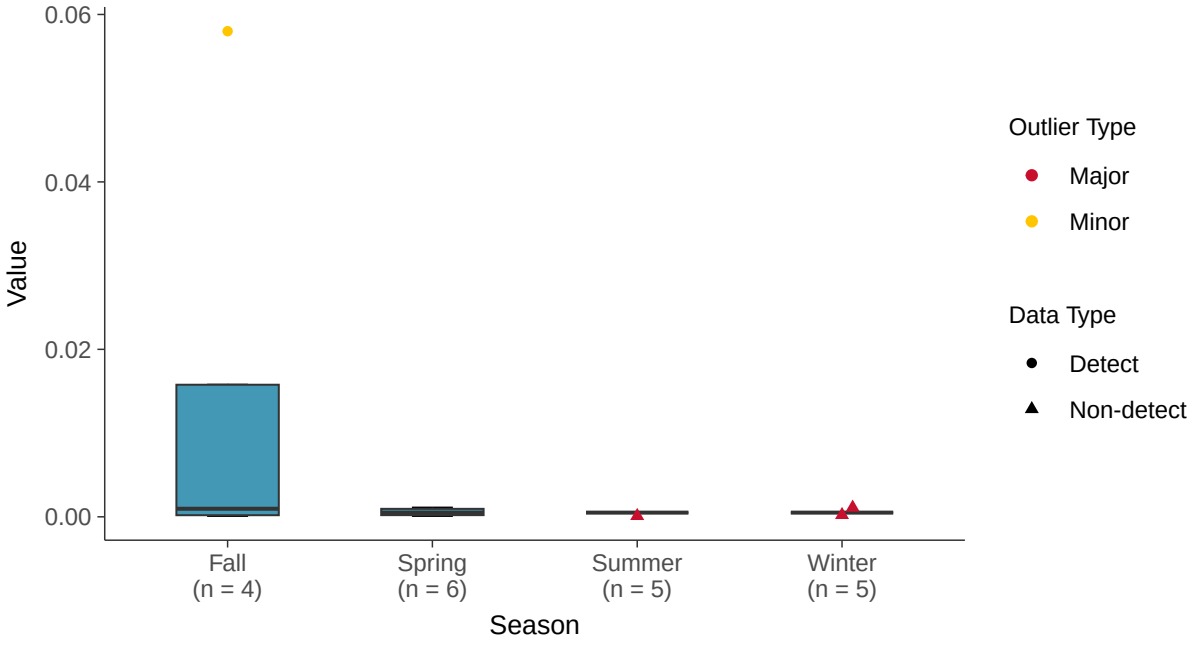
Boxplot

Lead, MW-30 (mg/L)



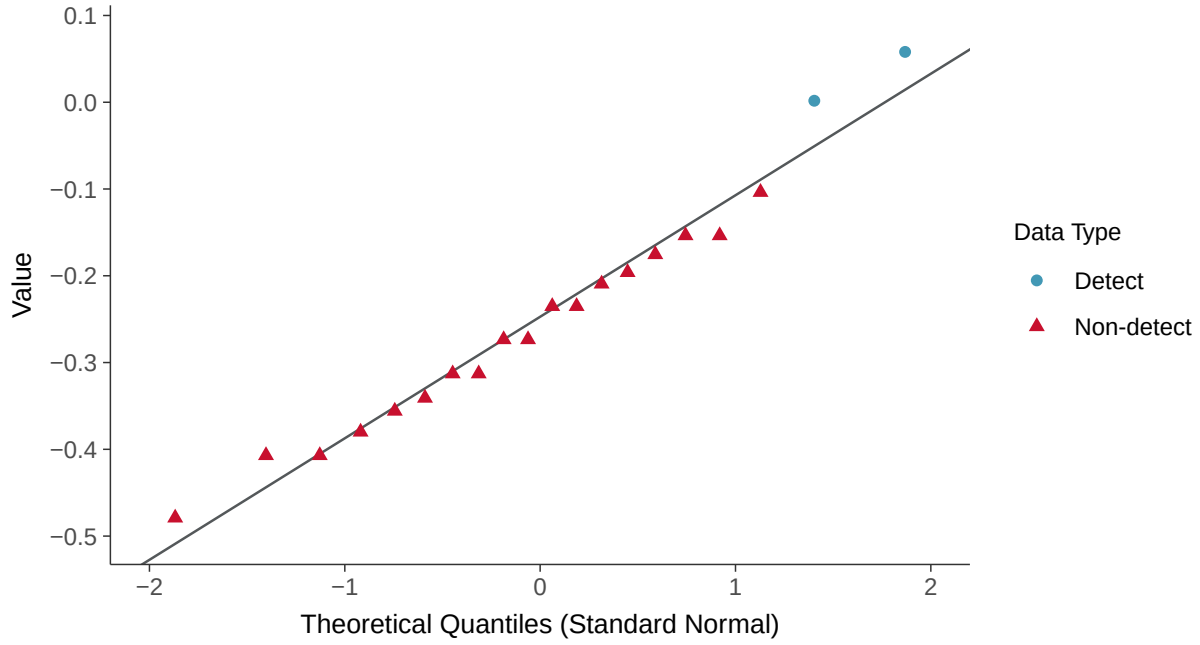
Boxplot by Season

Lead, MW-30 (mg/L)



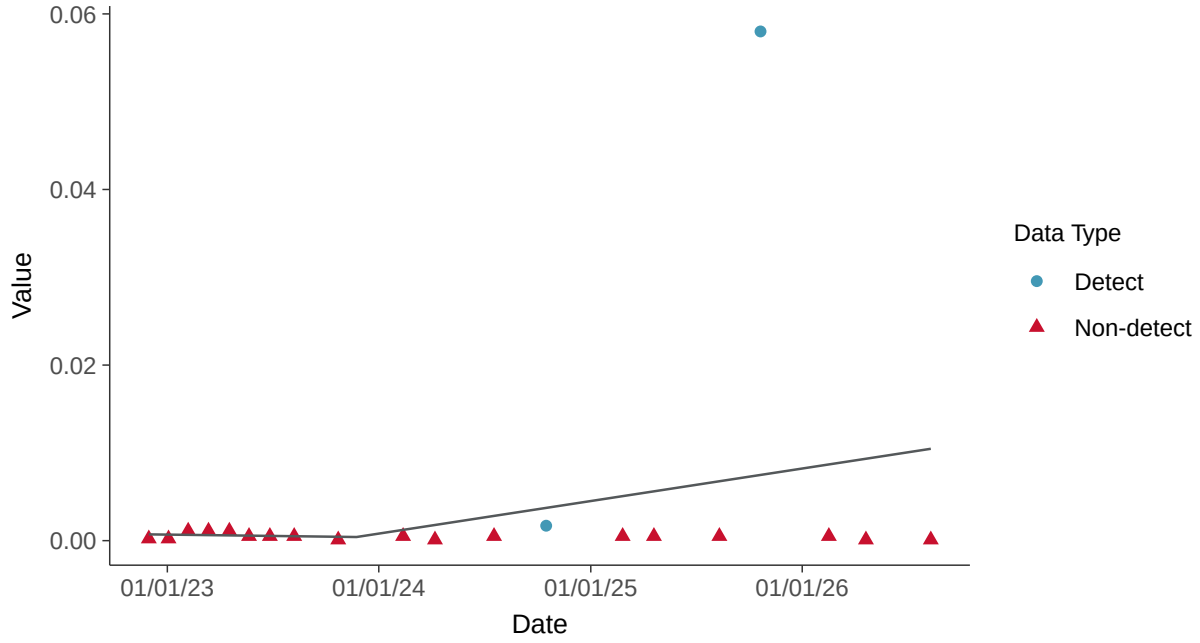
Normal Q-Q plot using ROS Imputed Estimates

Lead, MW-30 (mg/L)



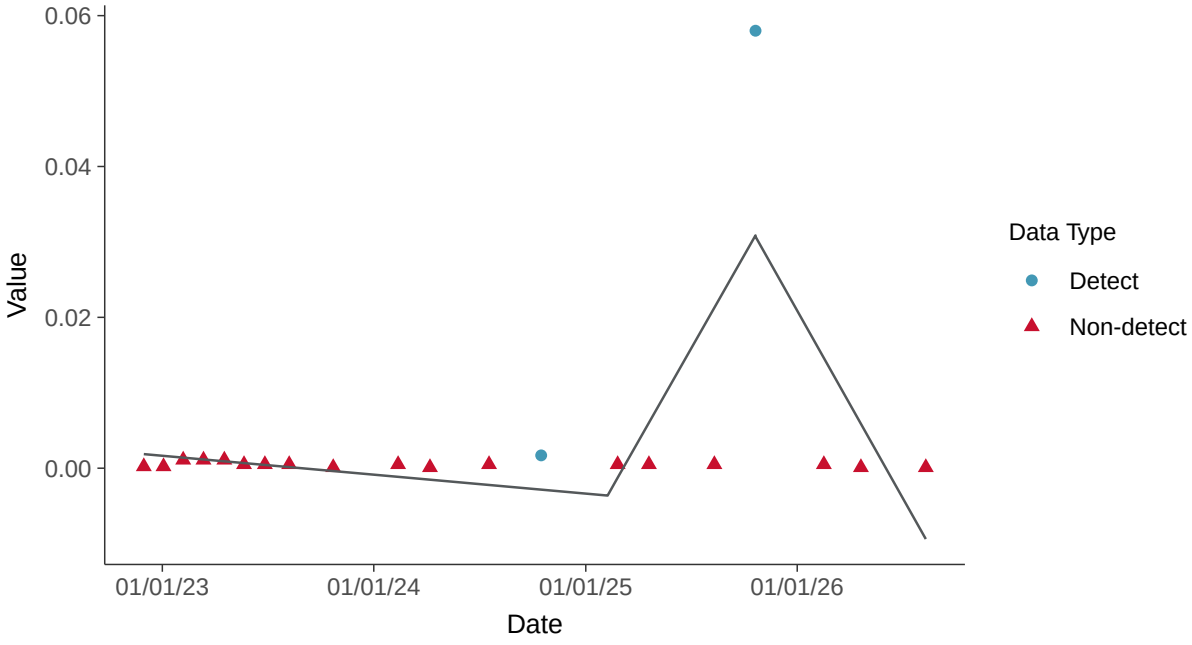
Trend Regression: Piecewise Linear-Linear

Lead, MW-30 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Lead, MW-30 (mg/L)

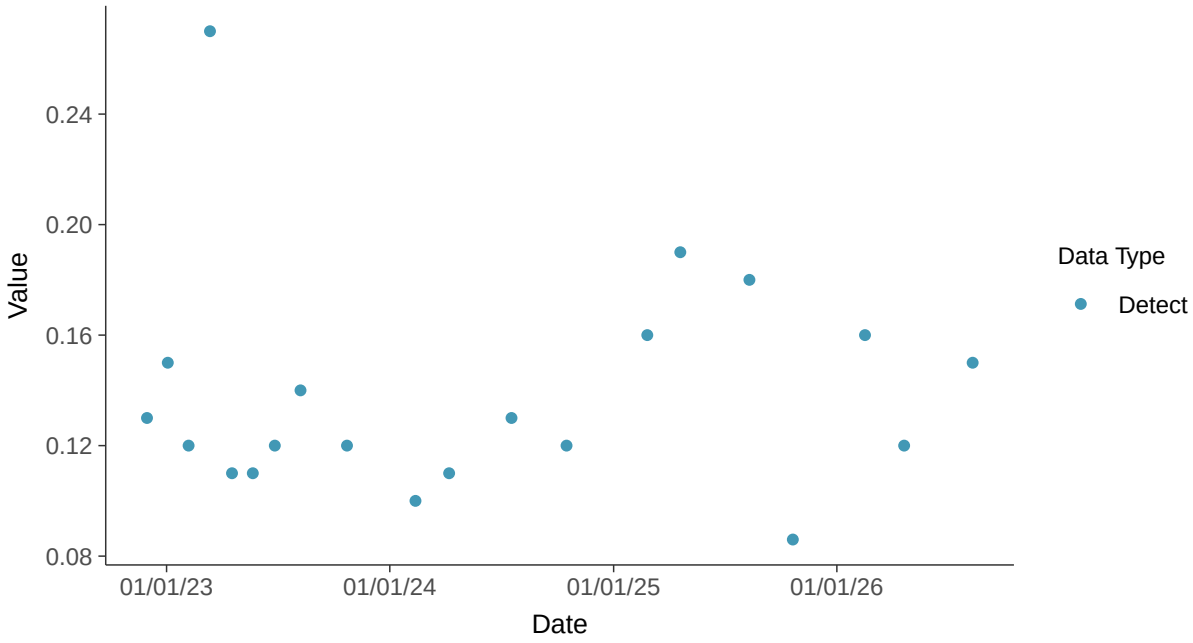


Appendix IV: Lithium, MW-30

ID: 40_1_4_116

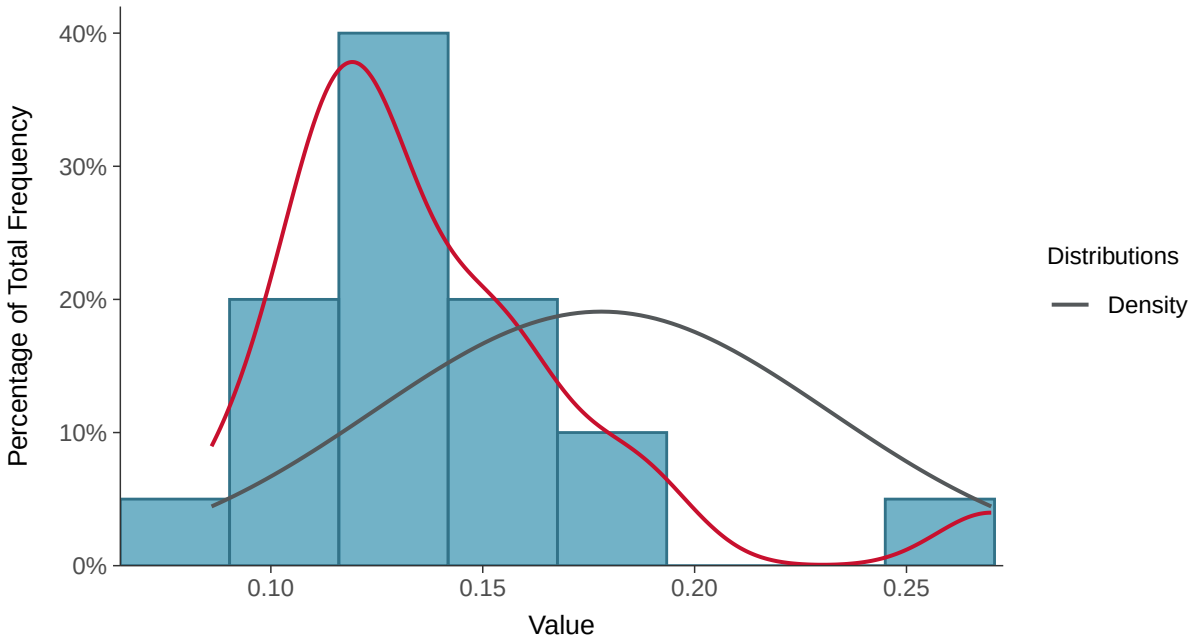
Scatter Plot

Lithium, MW-30 (mg/L)



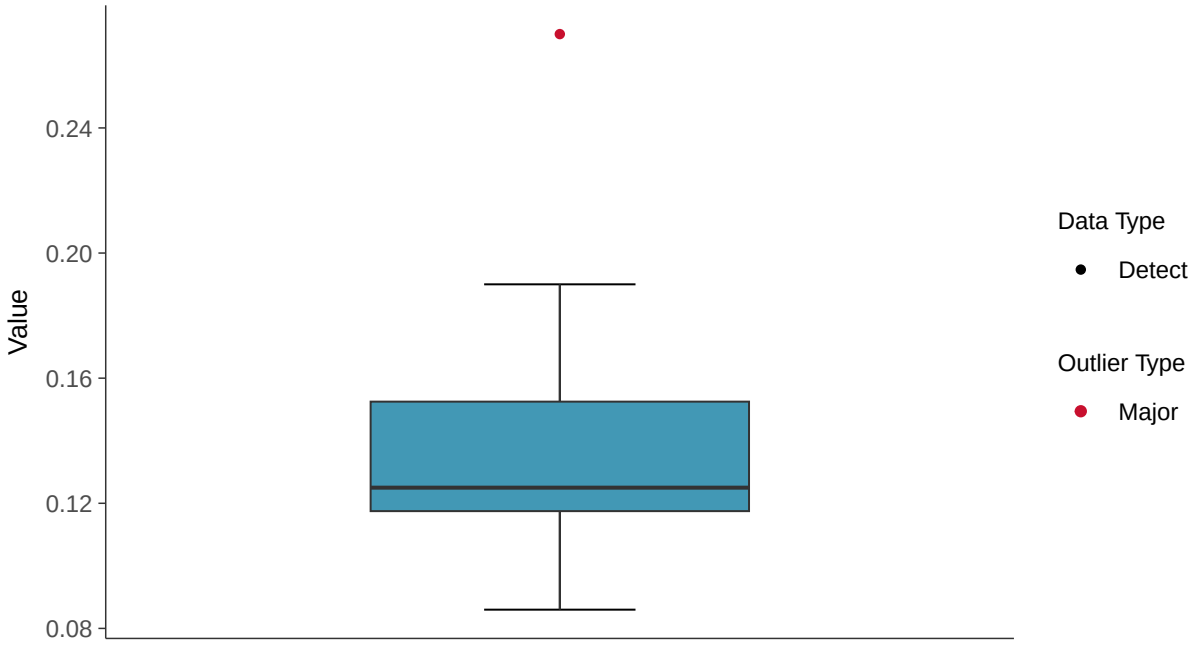
Histogram

Lithium, MW-30 (mg/L)



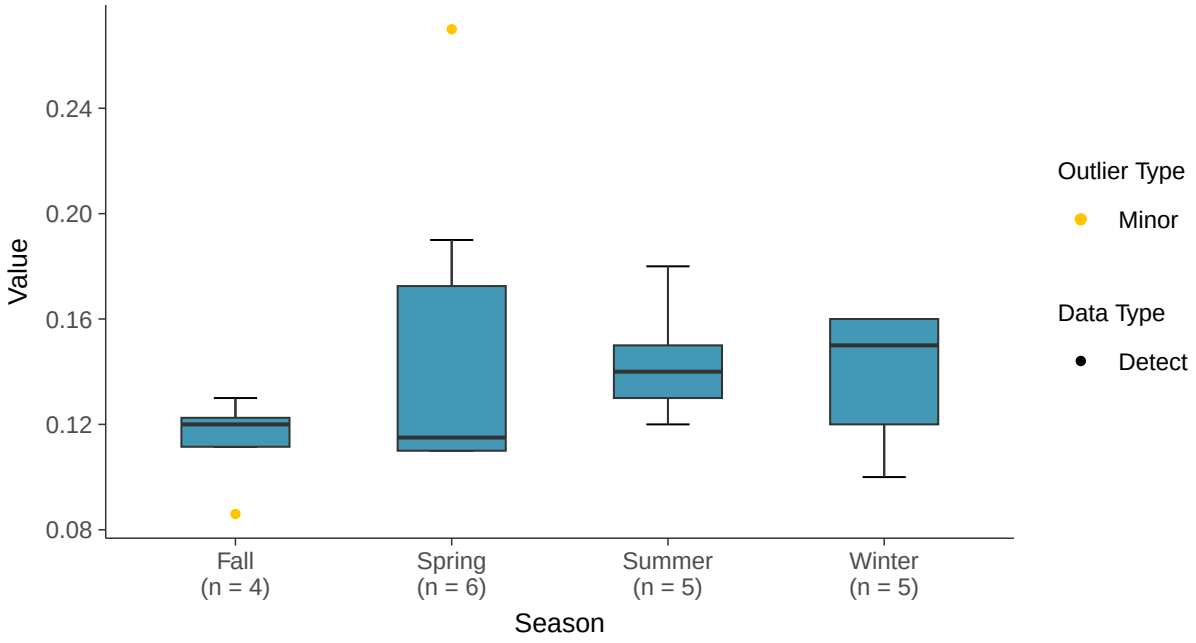
Boxplot

Lithium, MW-30 (mg/L)



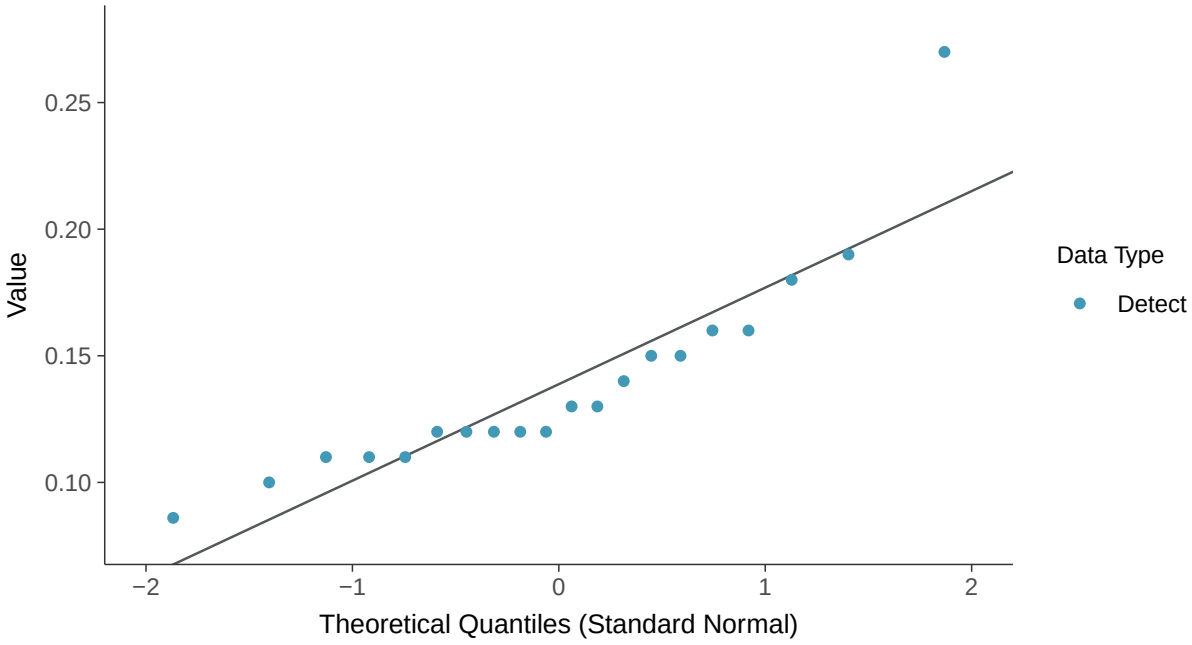
Boxplot by Season

Lithium, MW-30 (mg/L)



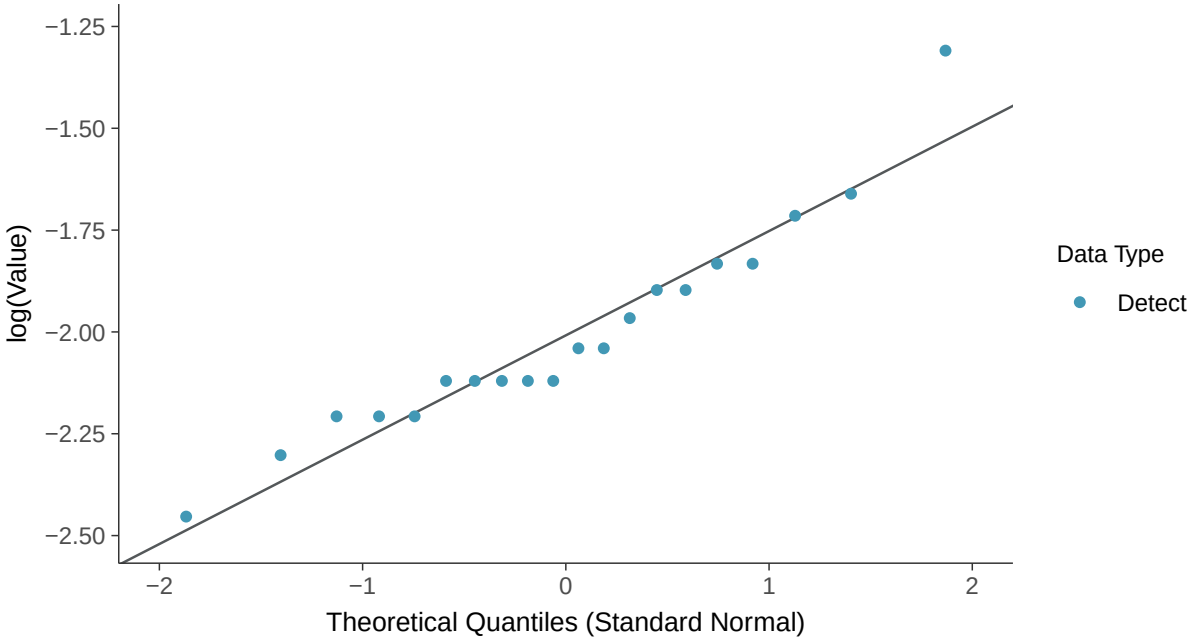
Normal Q-Q plot

Lithium, MW-30 (mg/L)



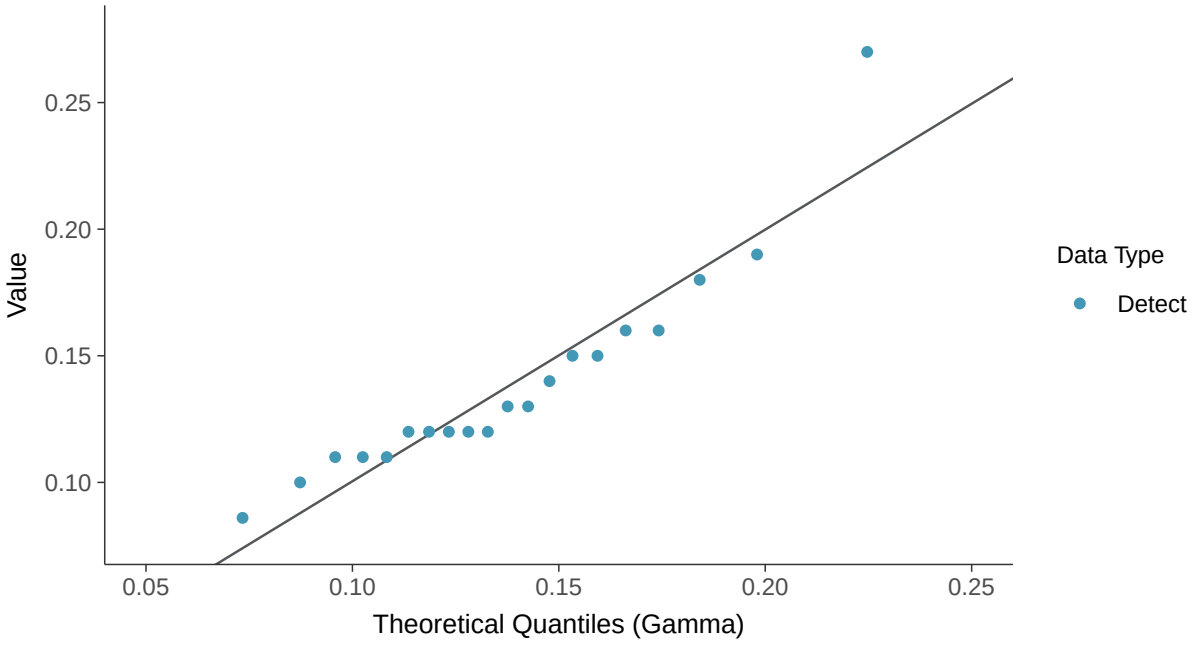
Lognormal Q-Q plot

Lithium, MW-30 (mg/L)



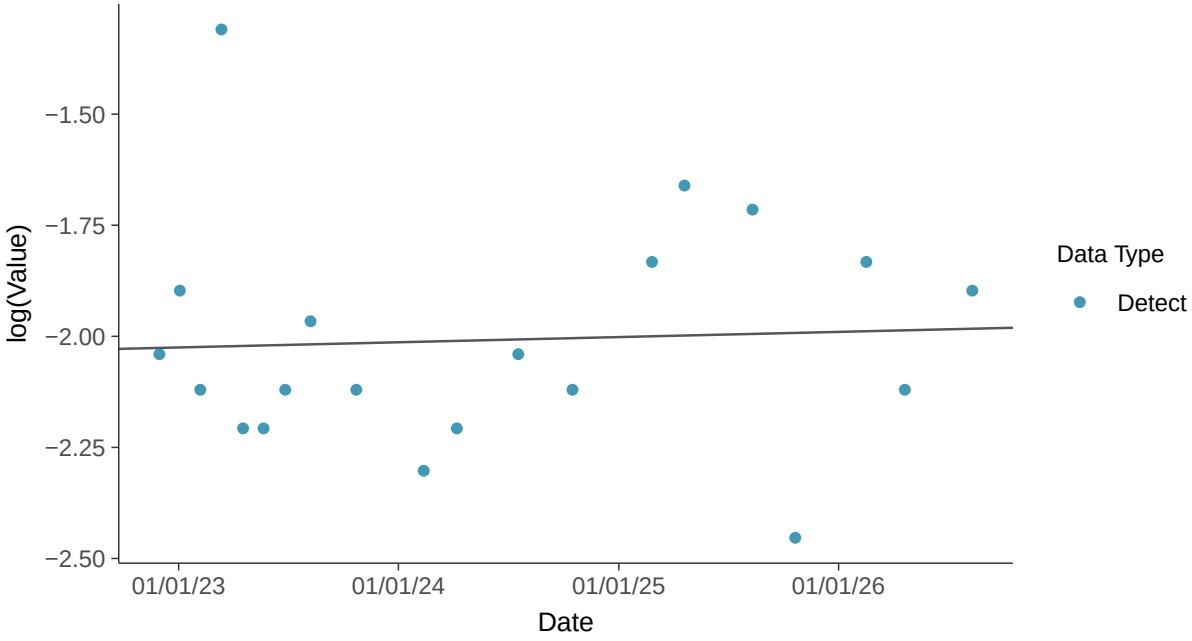
Gamma Q-Q plot

Lithium, MW-30 (mg/L)



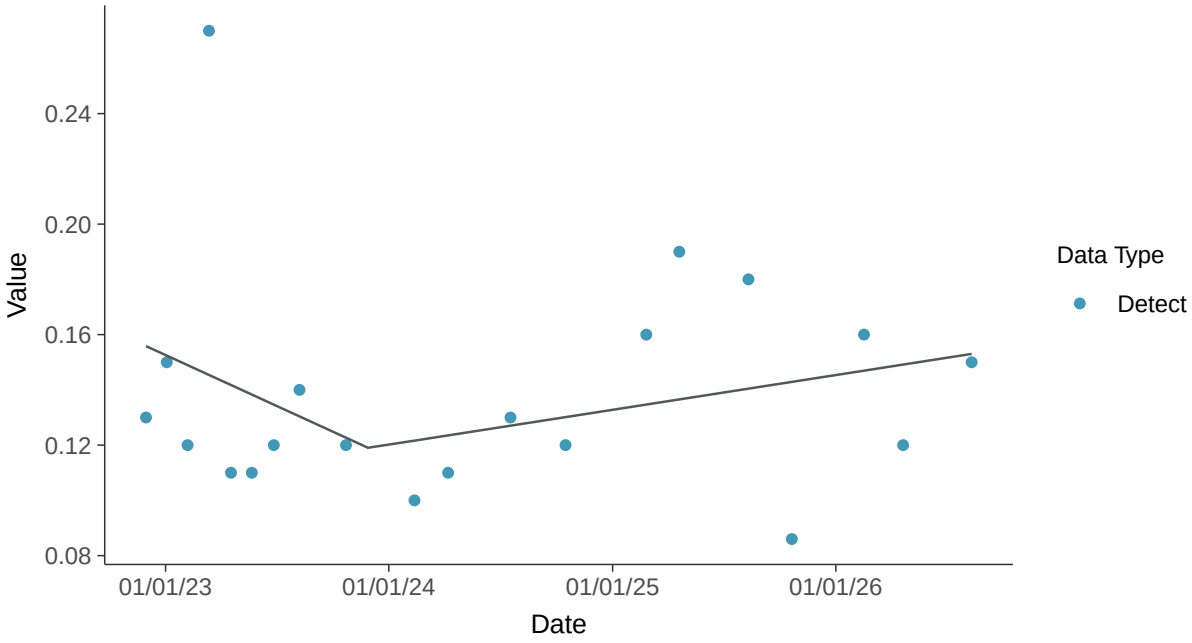
Trend Regression: Lognormal MLE

Lithium, MW-30 (mg/L)



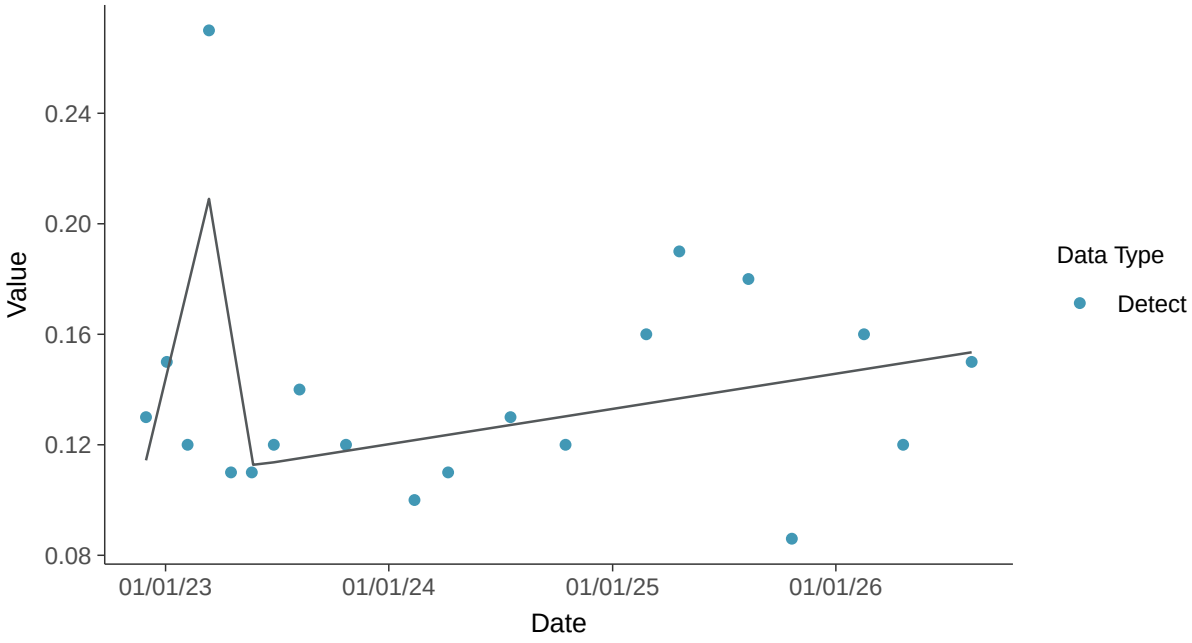
Trend Regression: Piecewise Linear-Linear

Lithium, MW-30 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Lithium, MW-30 (mg/L)

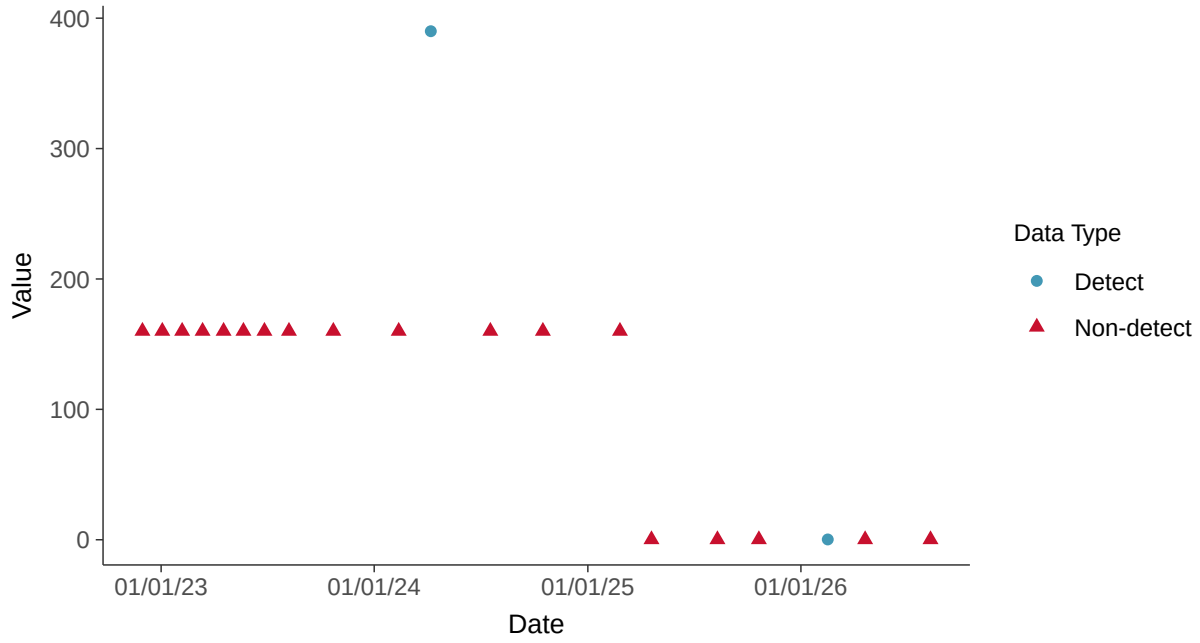


Appendix IV: Mercury, MW-30

ID: 40_1_4_117

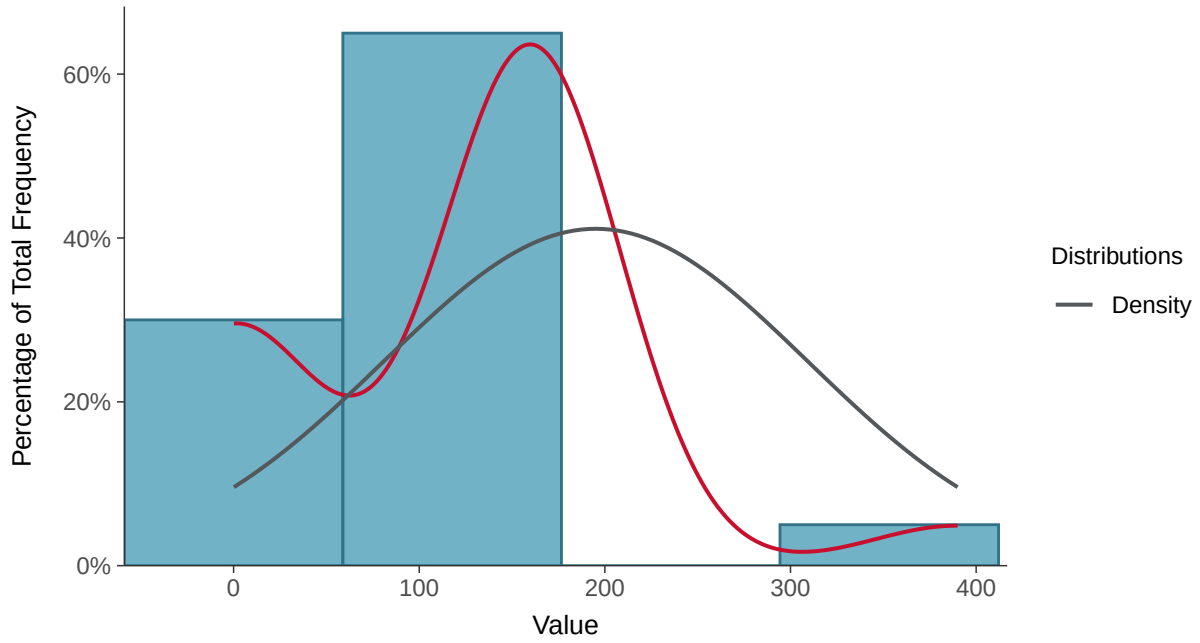
Scatter Plot

Mercury, MW-30 (ng/L)



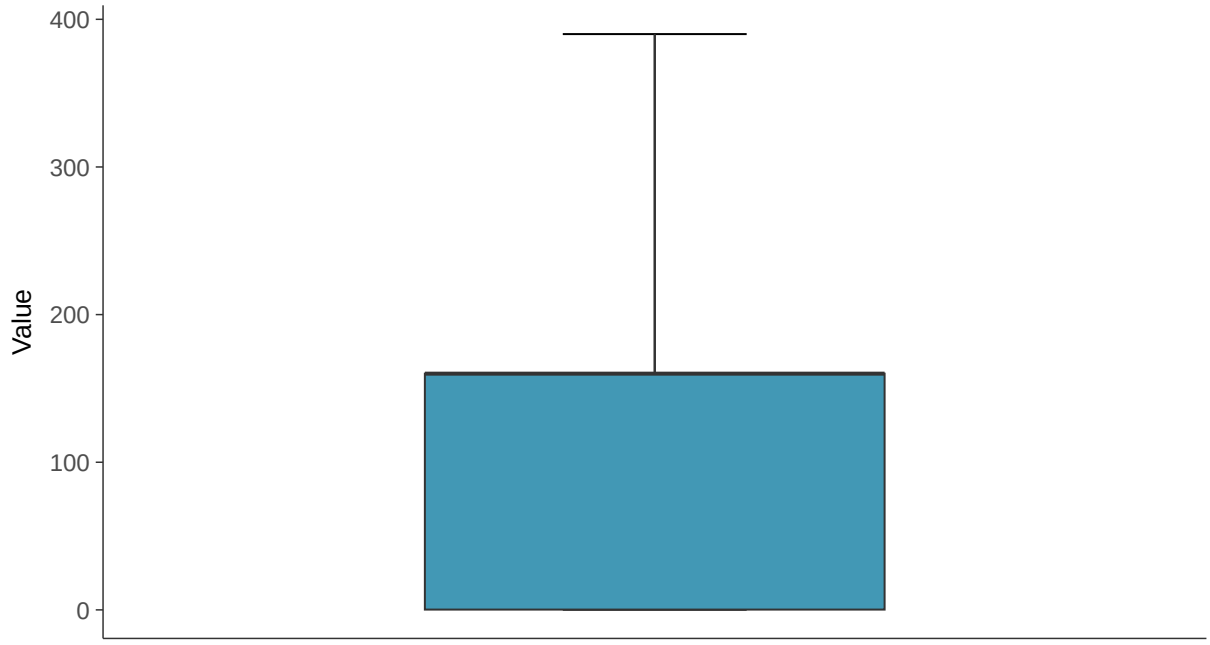
Histogram

Mercury, MW-30 (ng/L)



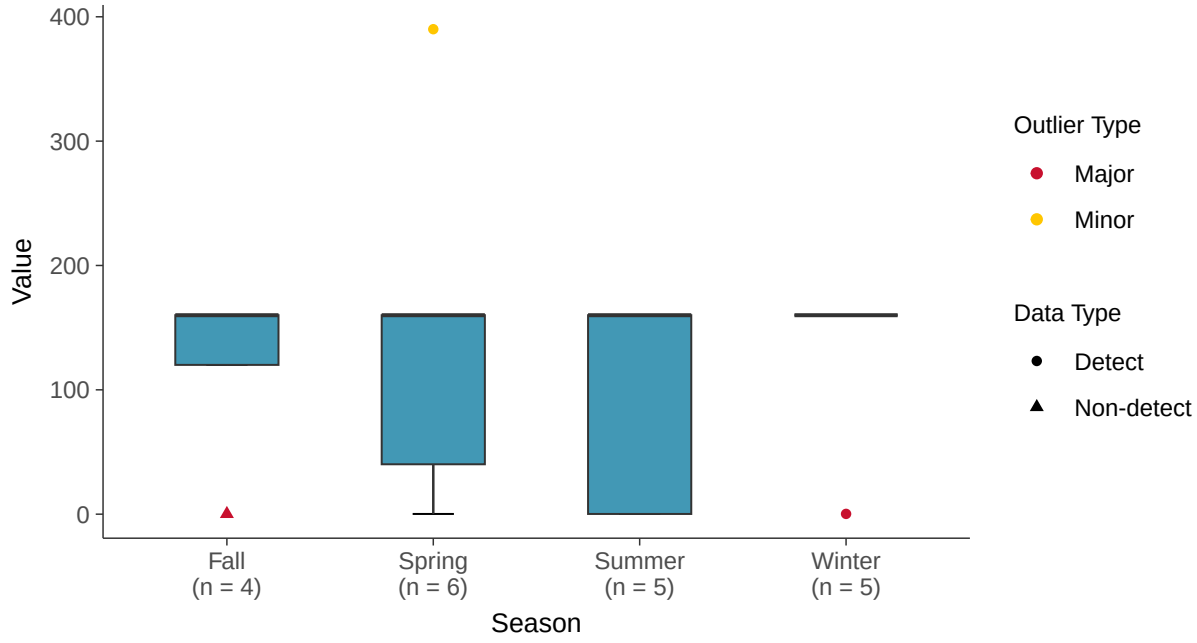
Boxplot

Mercury, MW-30 (ng/L)



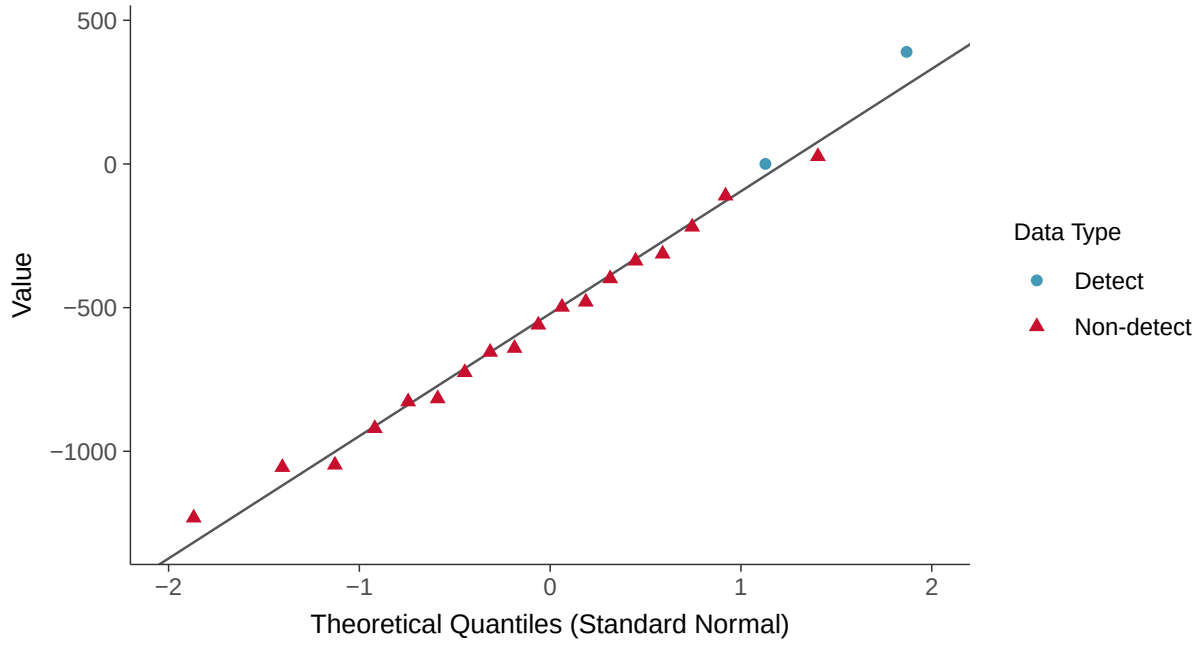
Boxplot by Season

Mercury, MW-30 (ng/L)



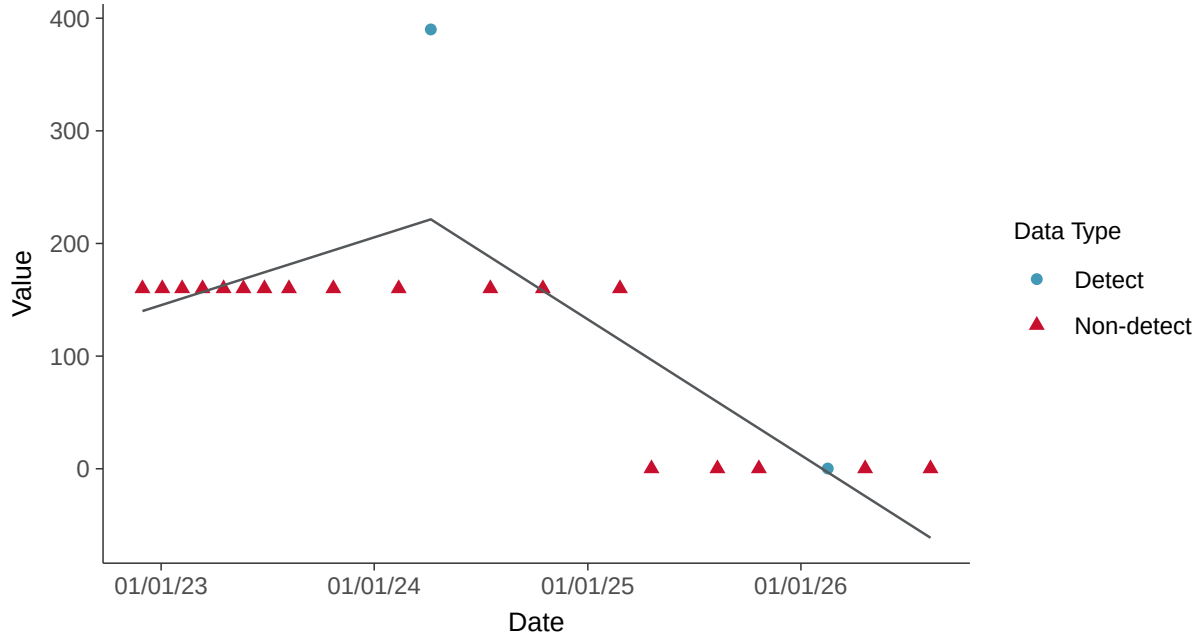
Normal Q-Q plot using ROS Imputed Estimates

Mercury, MW-30 (ng/L)



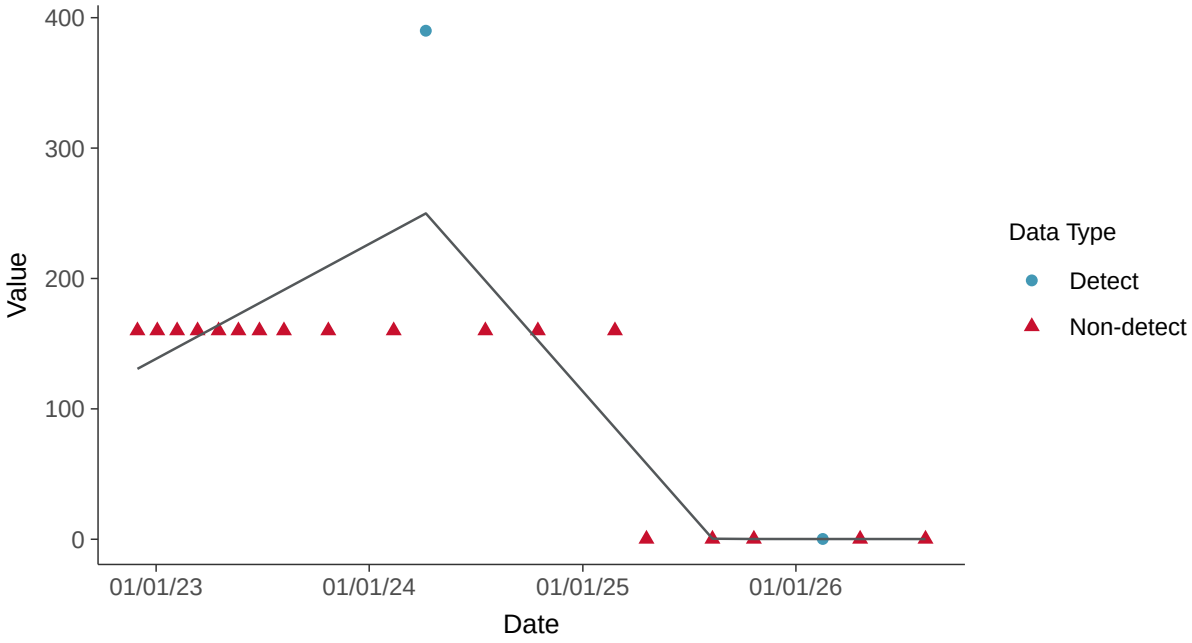
Trend Regression: Piecewise Linear-Linear

Mercury, MW-30 (ng/L)



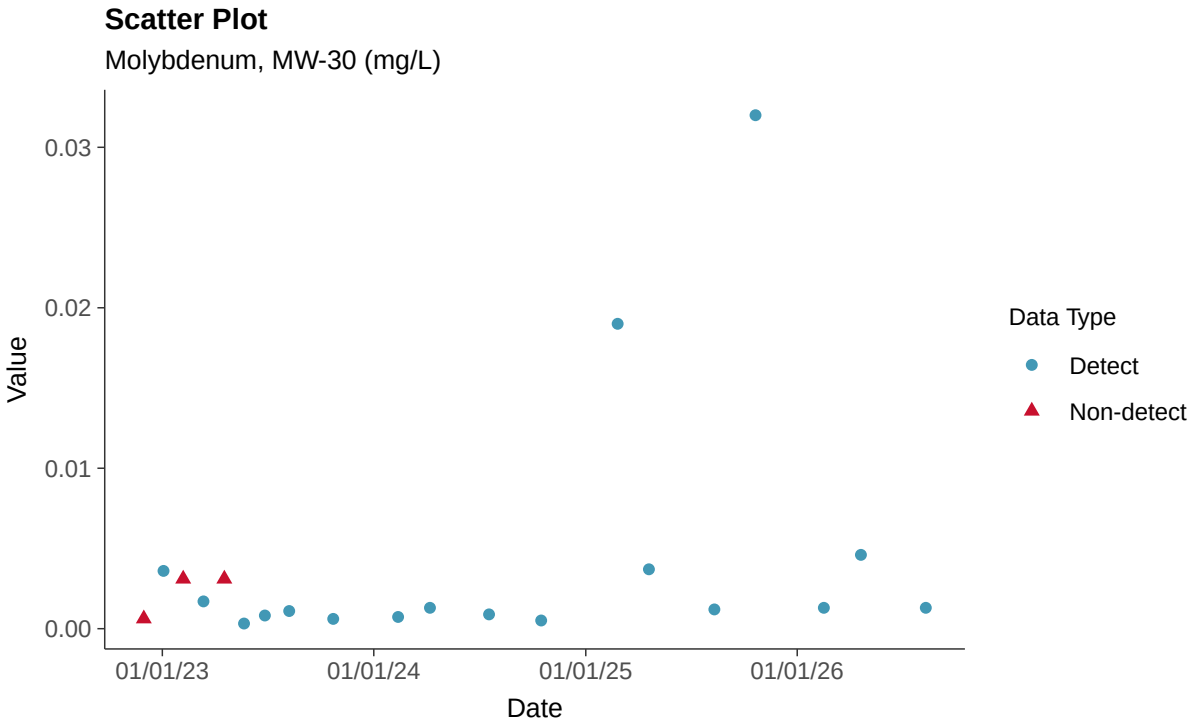
Trend Regression: Piecewise Linear-Linear-Linear

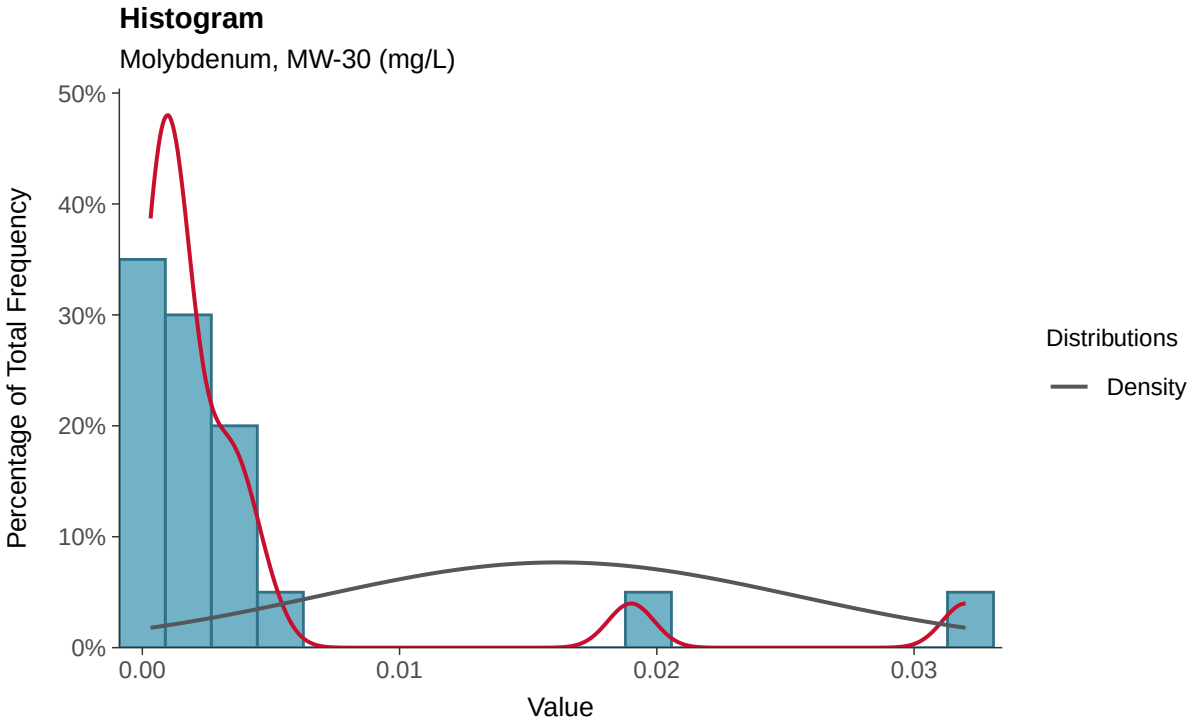
Mercury, MW-30 (ng/L)



Appendix IV: Molybdenum, MW-30

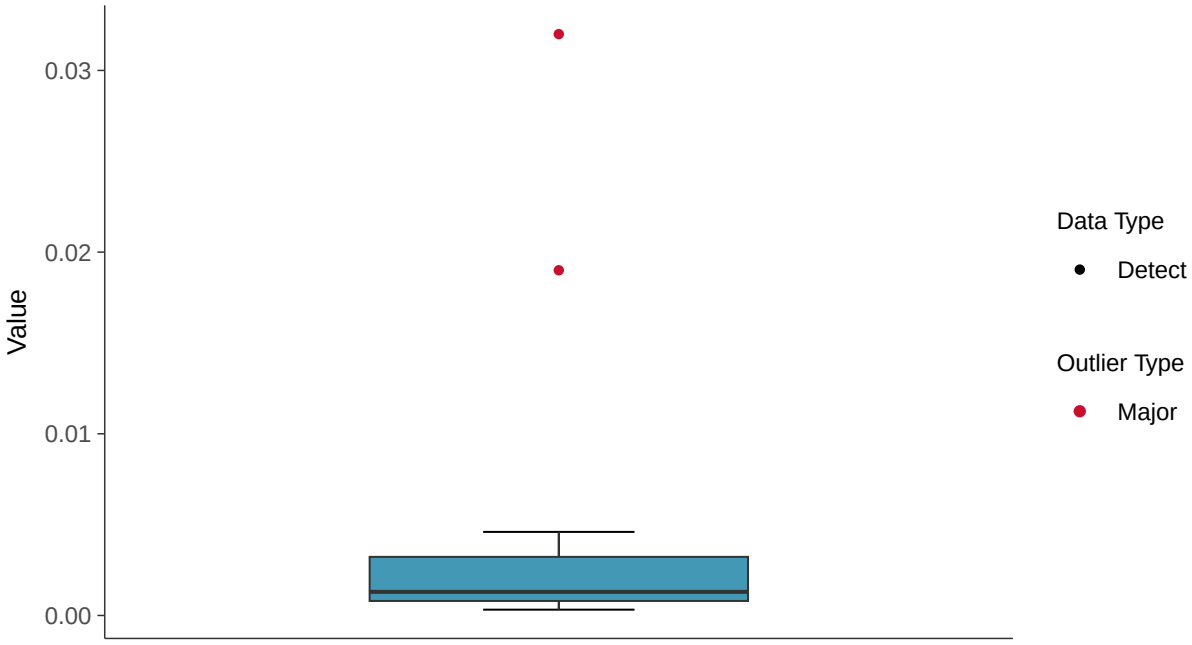
ID: 40_1_4_118





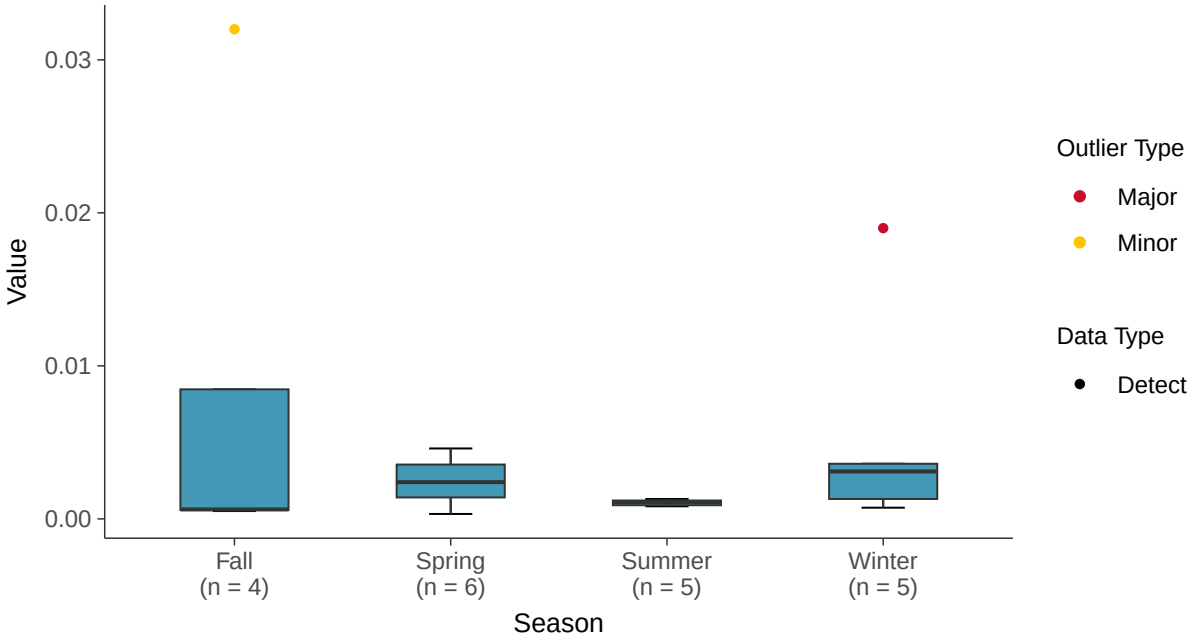
Boxplot

Molybdenum, MW-30 (mg/L)



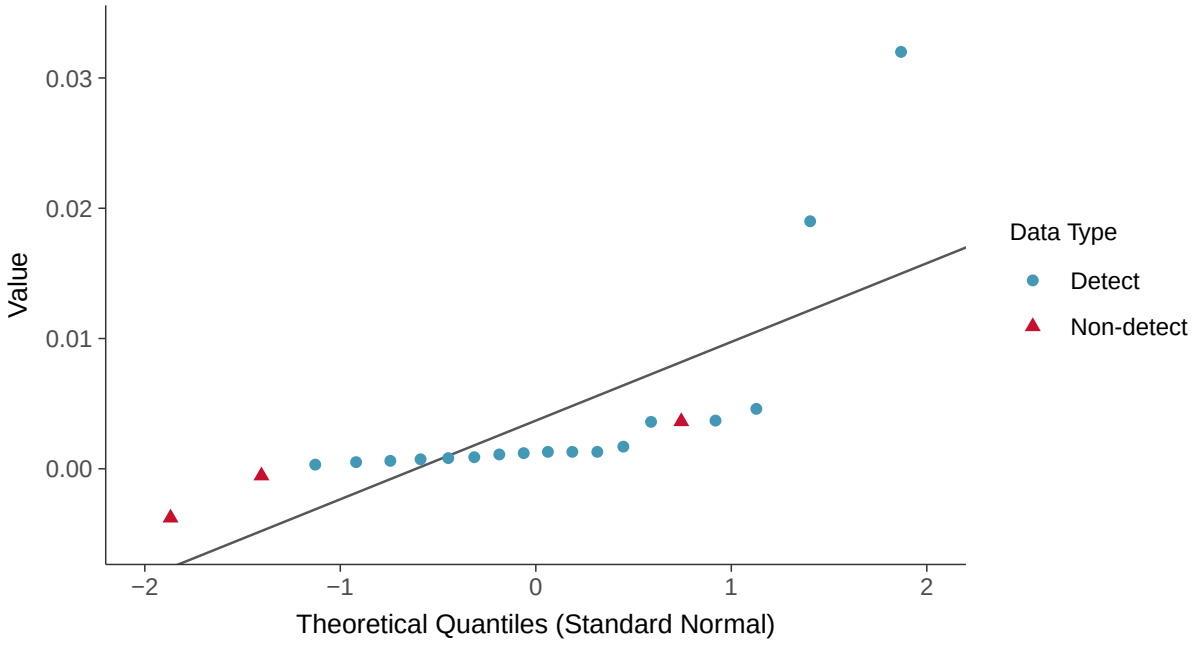
Boxplot by Season

Molybdenum, MW-30 (mg/L)



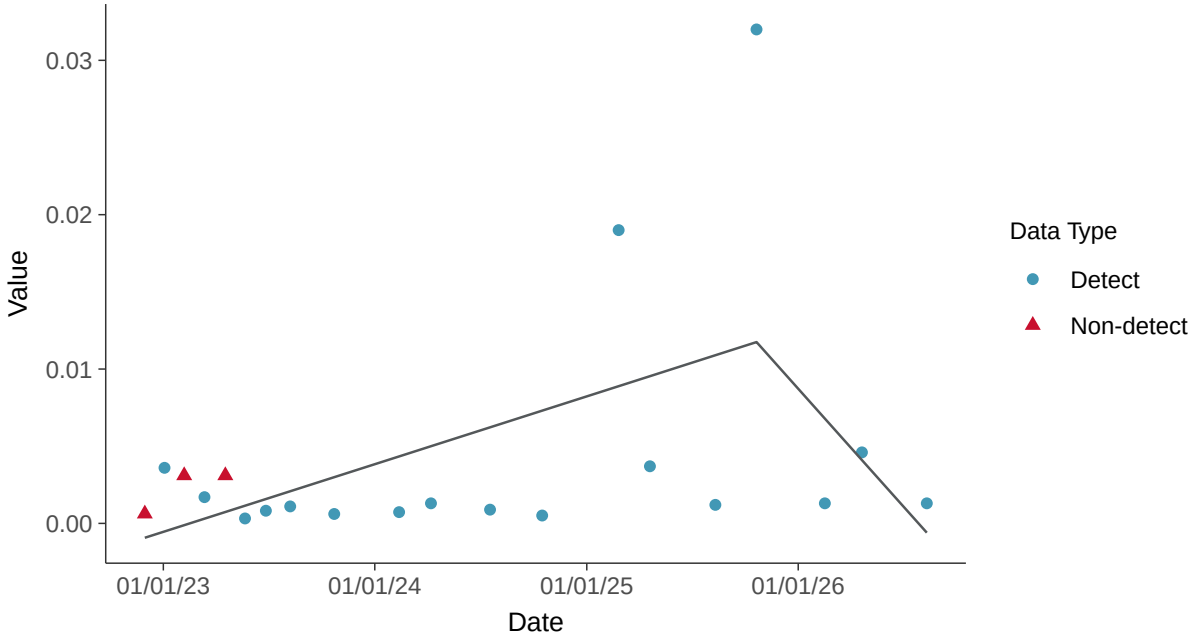
Normal Q-Q plot using ROS Imputed Estimates

Molybdenum, MW-30 (mg/L)



Trend Regression: Piecewise Linear-Linear

Molybdenum, MW-30 (mg/L)

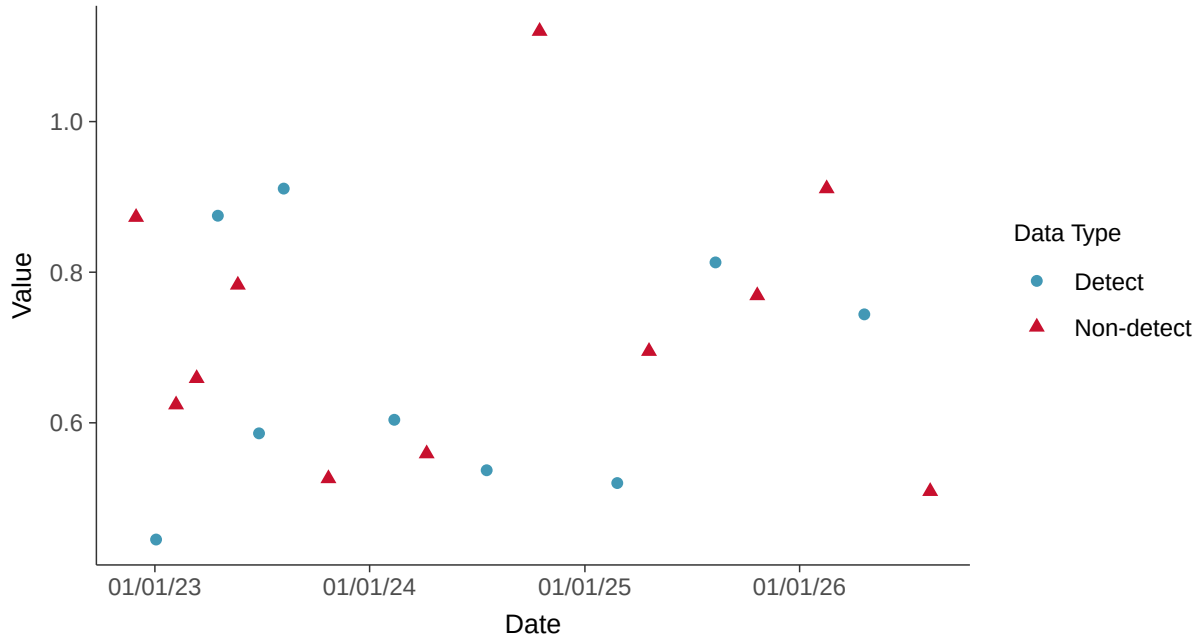


Appendix IV: Radium 226 and 228, MW-30

ID: 40_1_4_121

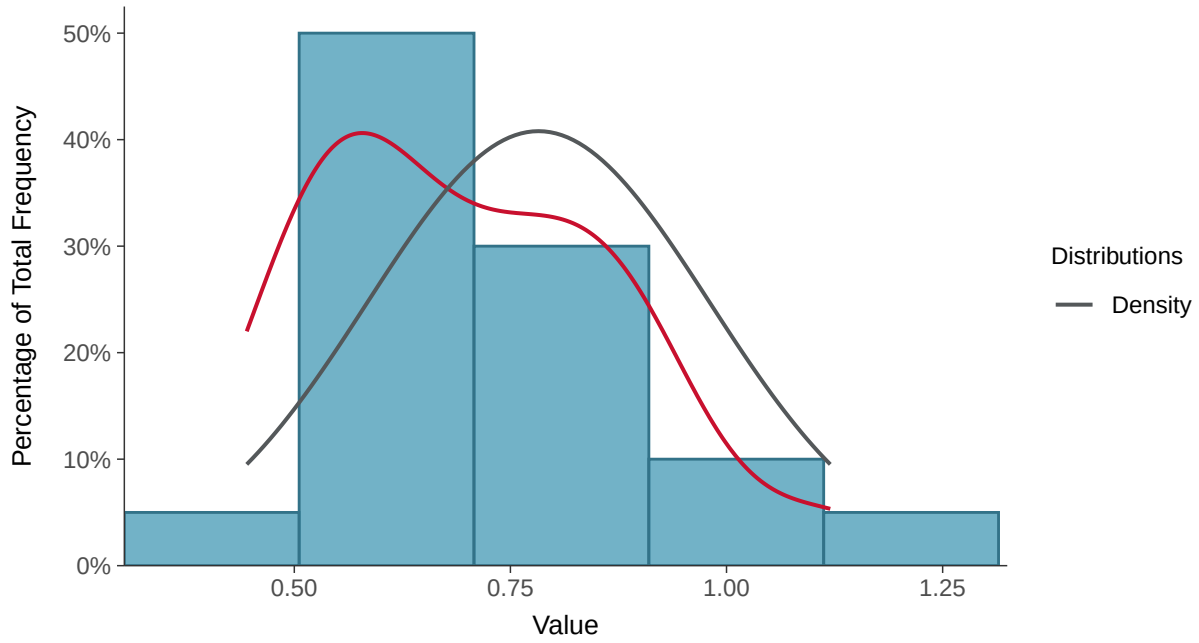
Scatter Plot

Radium 226 and 228, MW-30 (pCi/L)



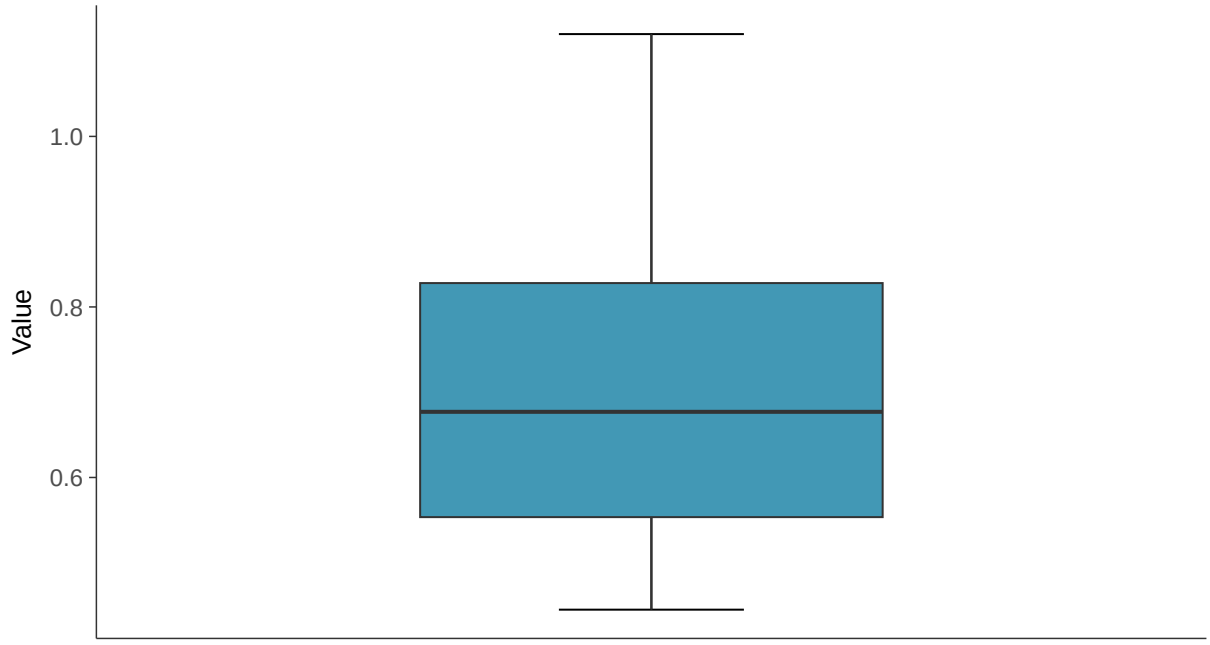
Histogram

Radium 226 and 228, MW-30 (pCi/L)



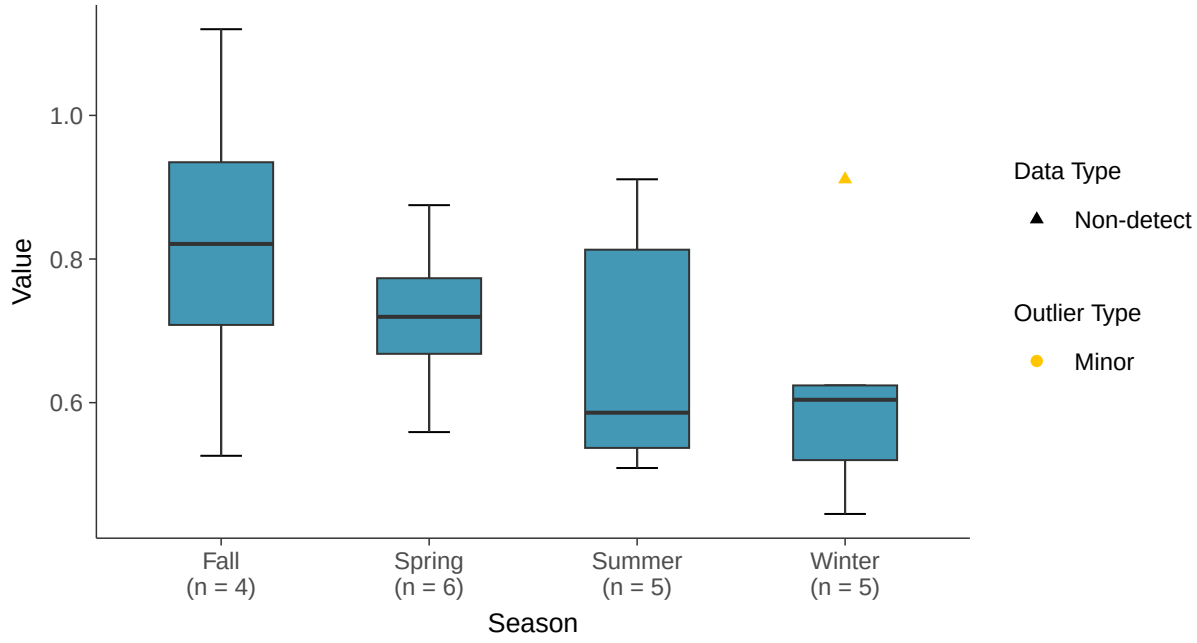
Boxplot

Radium 226 and 228, MW-30 (pCi/L)



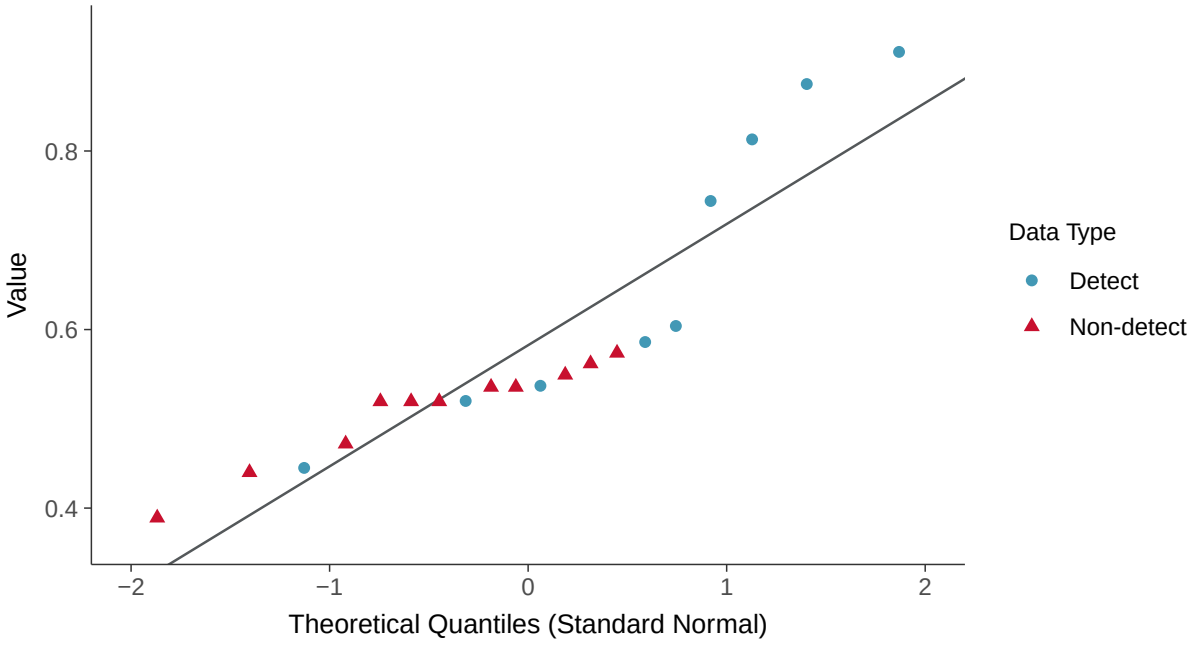
Boxplot by Season

Radium 226 and 228, MW-30 (pCi/L)



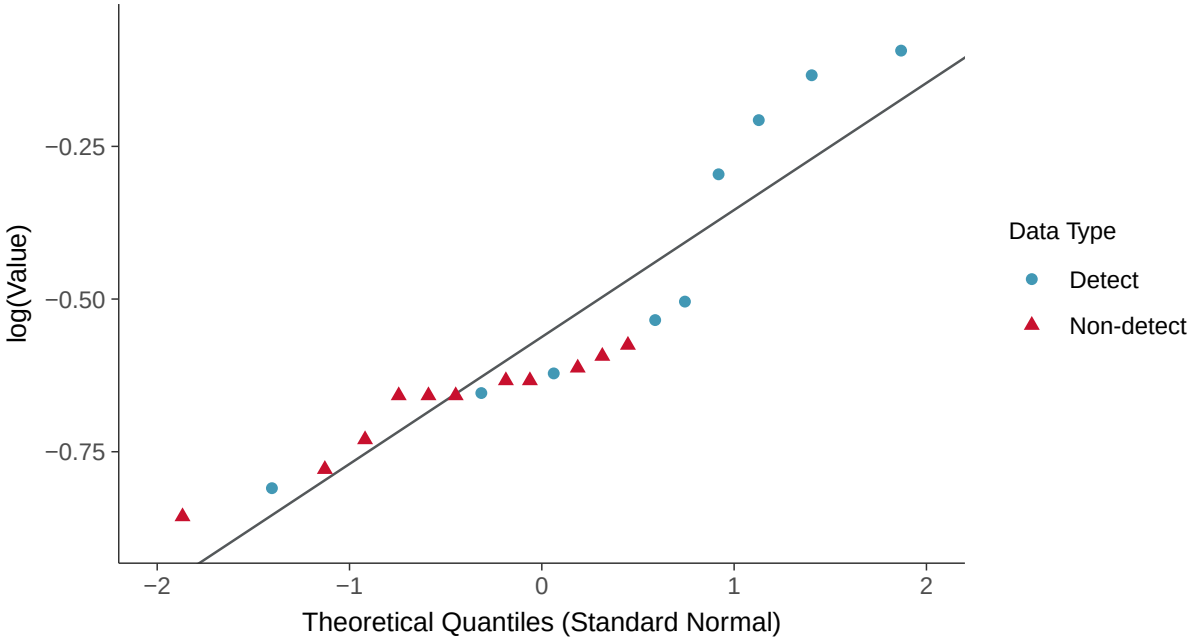
Normal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-30 (pCi/L)



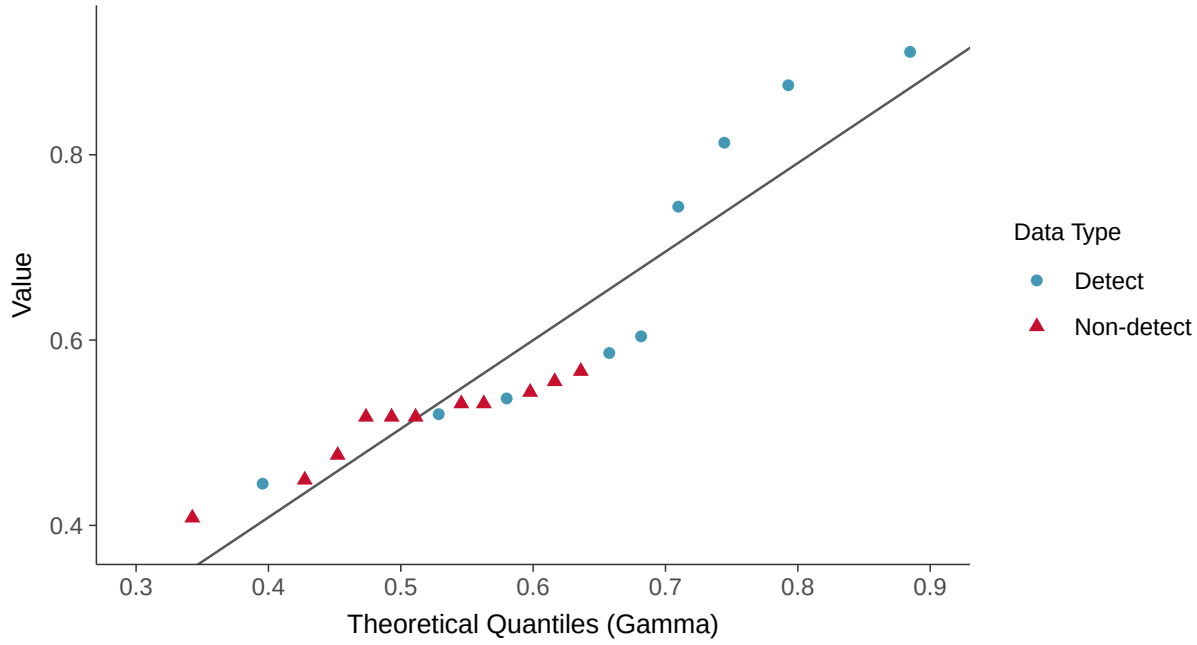
Lognormal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-30 (pCi/L)



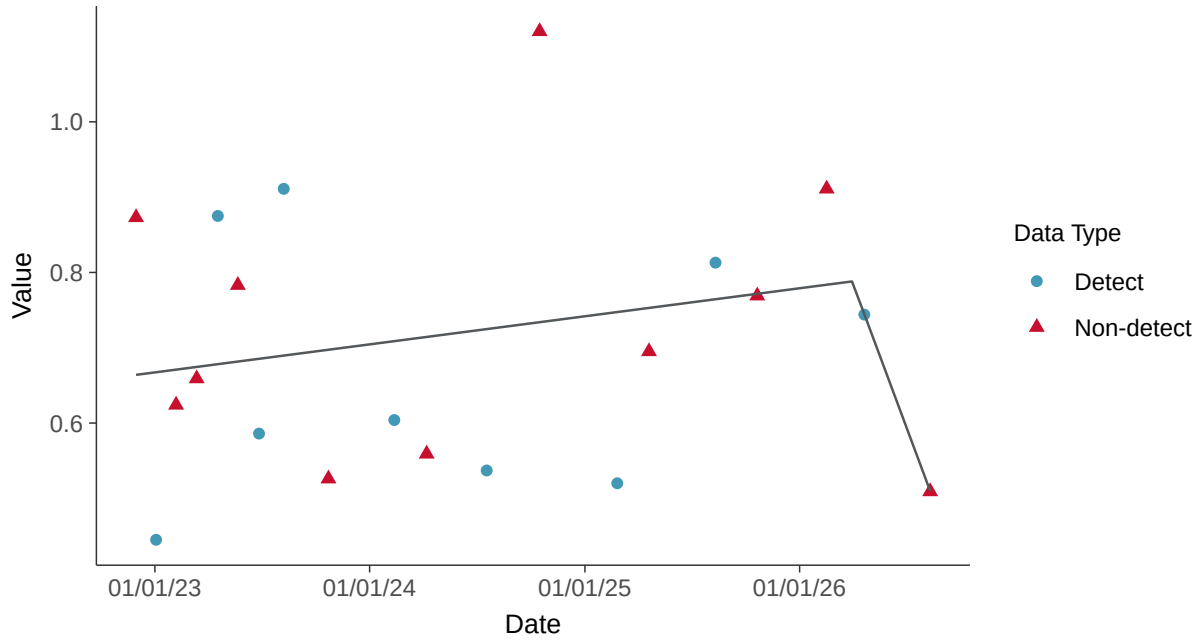
Gamma Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-30 (pCi/L)



Trend Regression: Piecewise Linear-Linear

Radium 226 and 228, MW-30 (pCi/L)

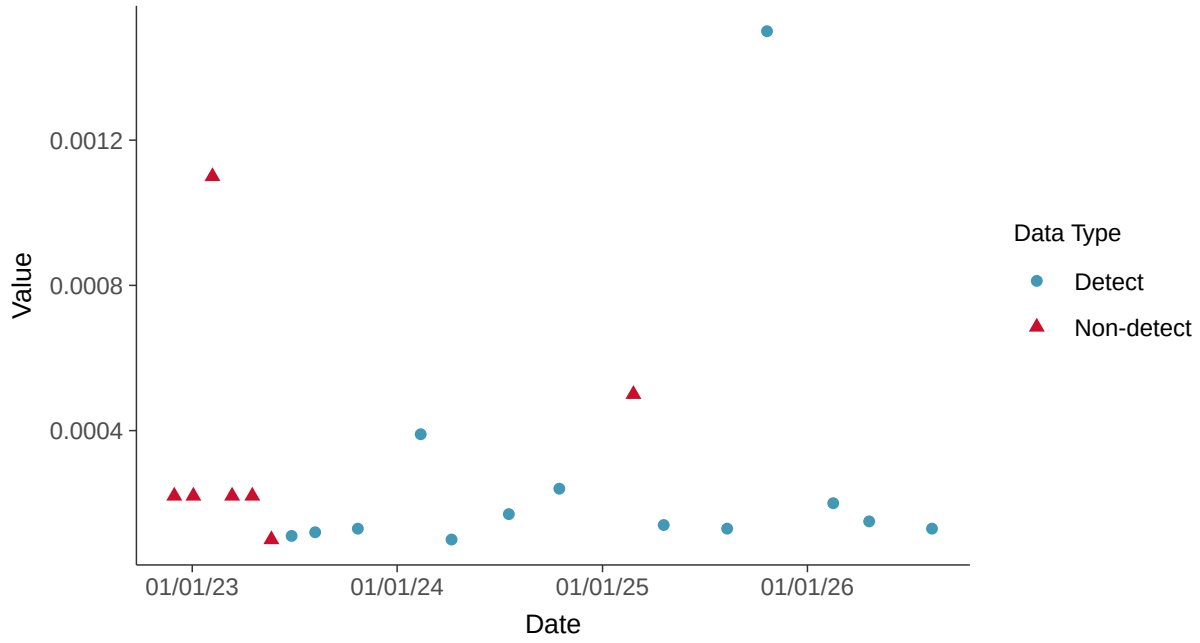


Appendix IV: Selenium, MW-30

ID: 40_1_4_122

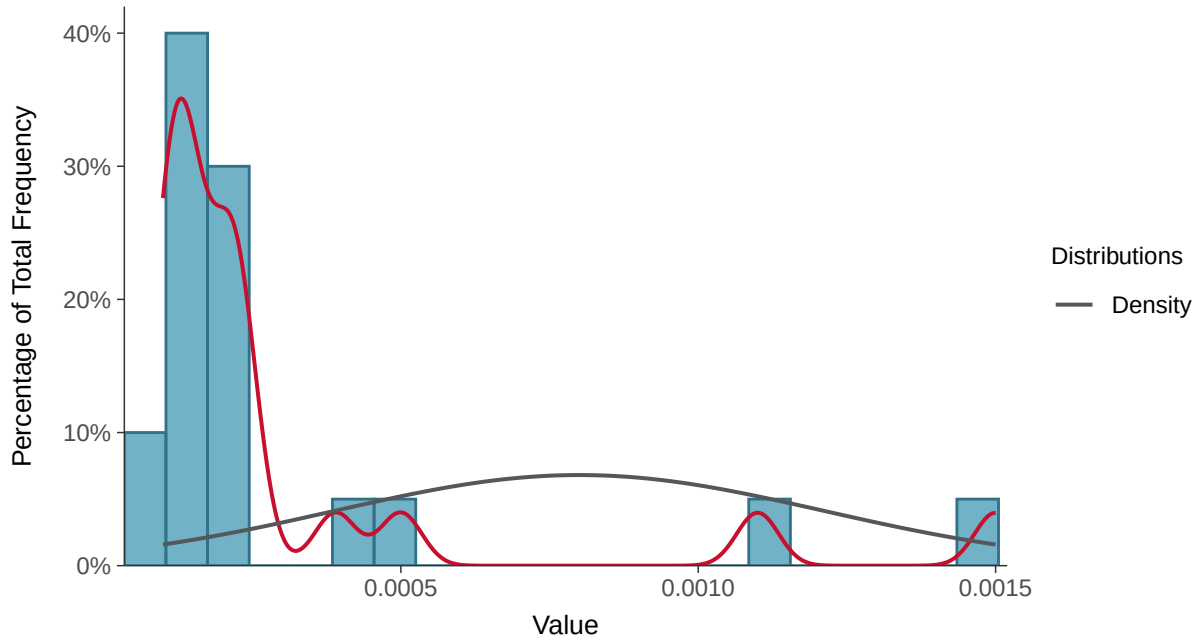
Scatter Plot

Selenium, MW-30 (mg/L)



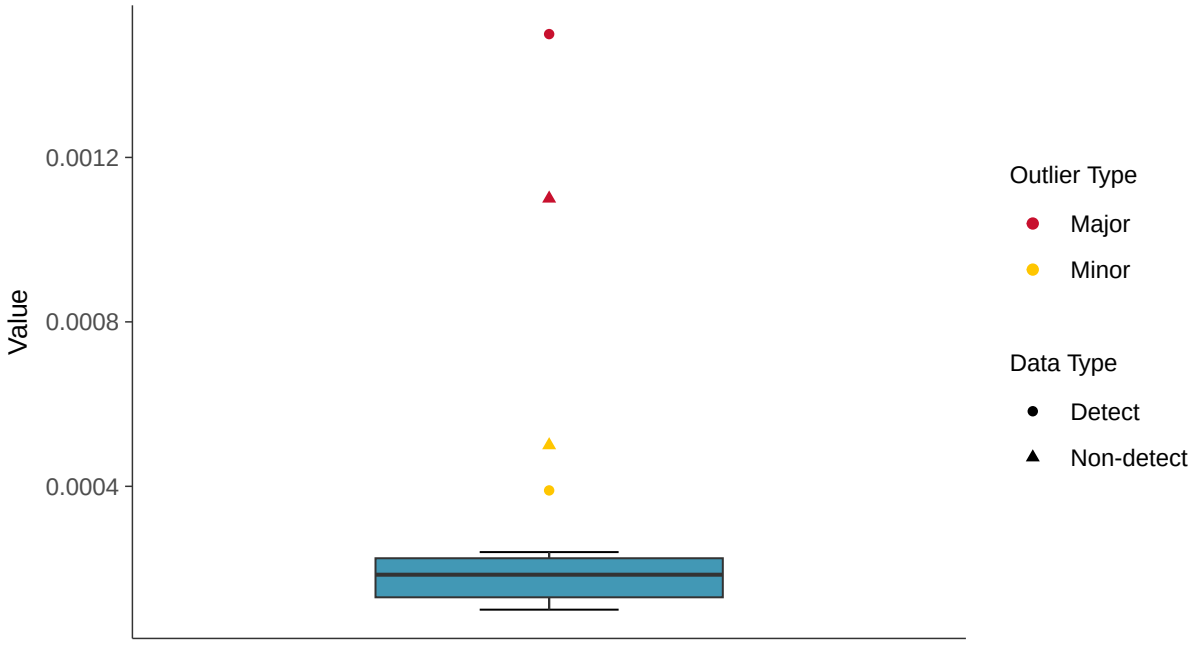
Histogram

Selenium, MW-30 (mg/L)



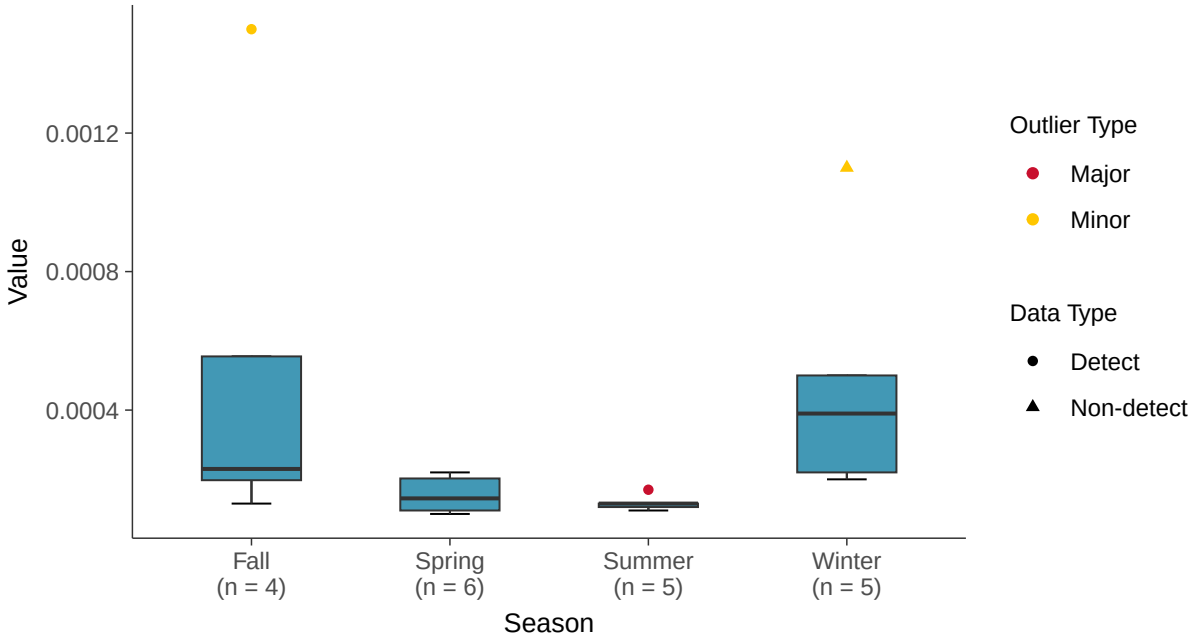
Boxplot

Selenium, MW-30 (mg/L)



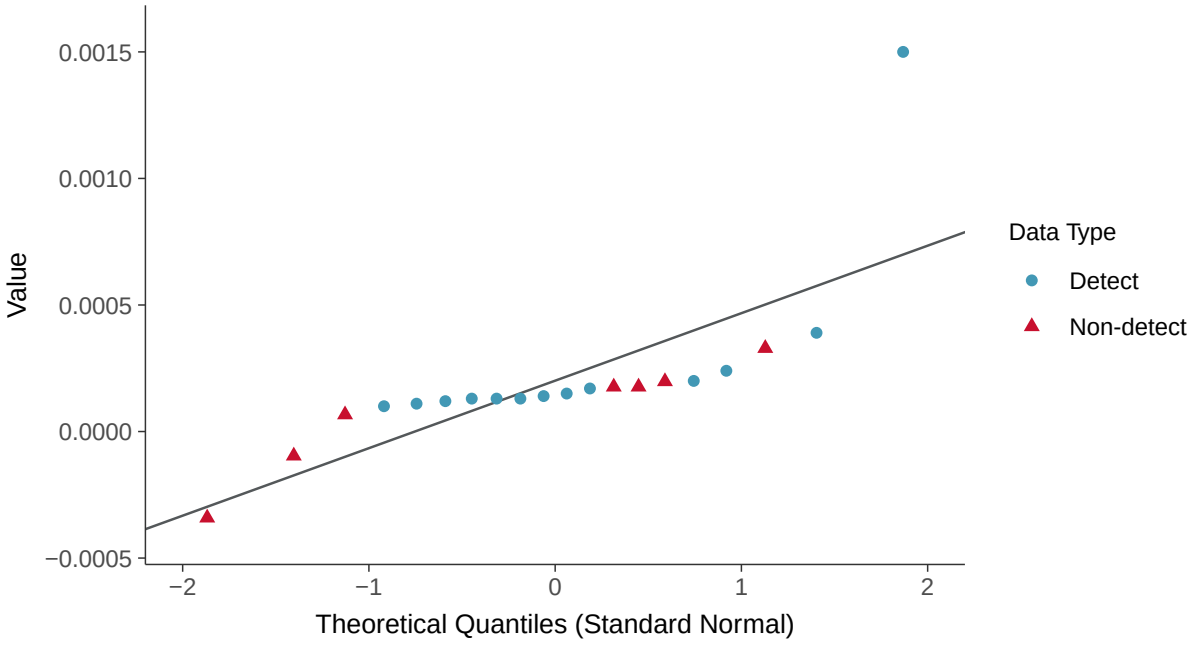
Boxplot by Season

Selenium, MW-30 (mg/L)



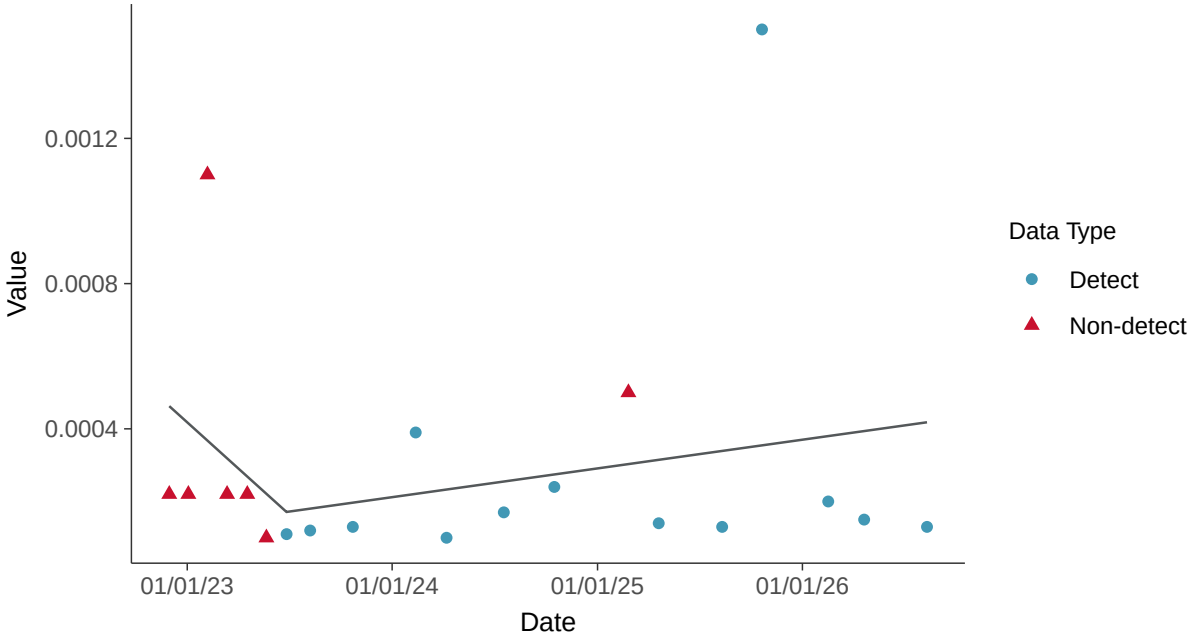
Normal Q-Q plot using ROS Imputed Estimates

Selenium, MW-30 (mg/L)



Trend Regression: Piecewise Linear-Linear

Selenium, MW-30 (mg/L)

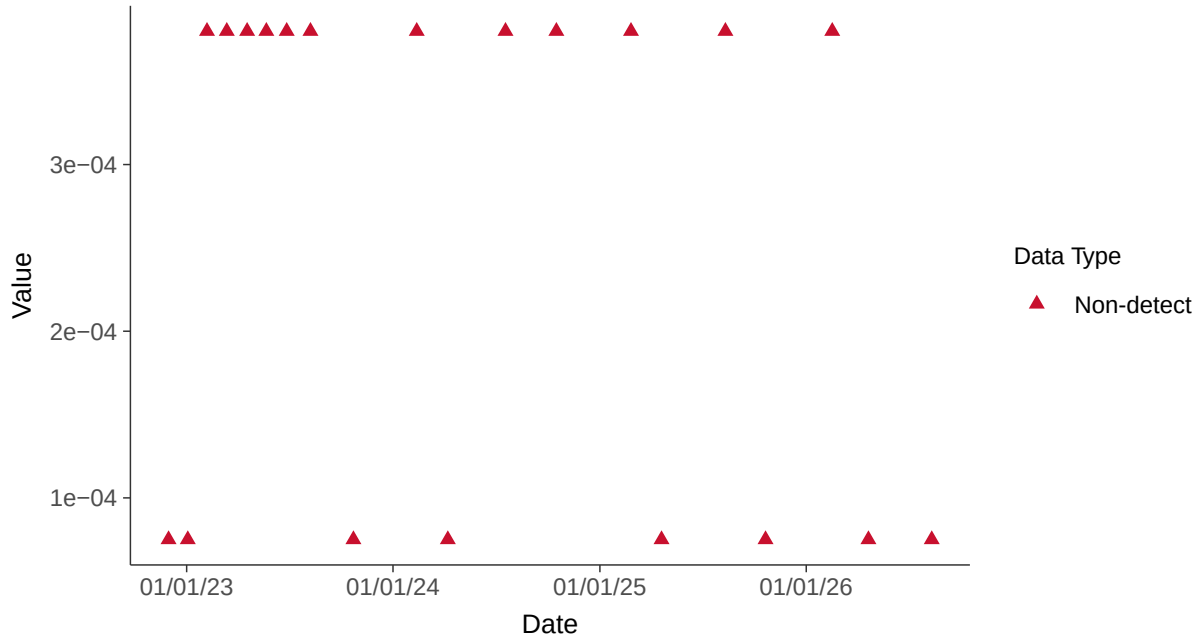


Appendix IV: Thallium, MW-30

ID: 40_1_4_125

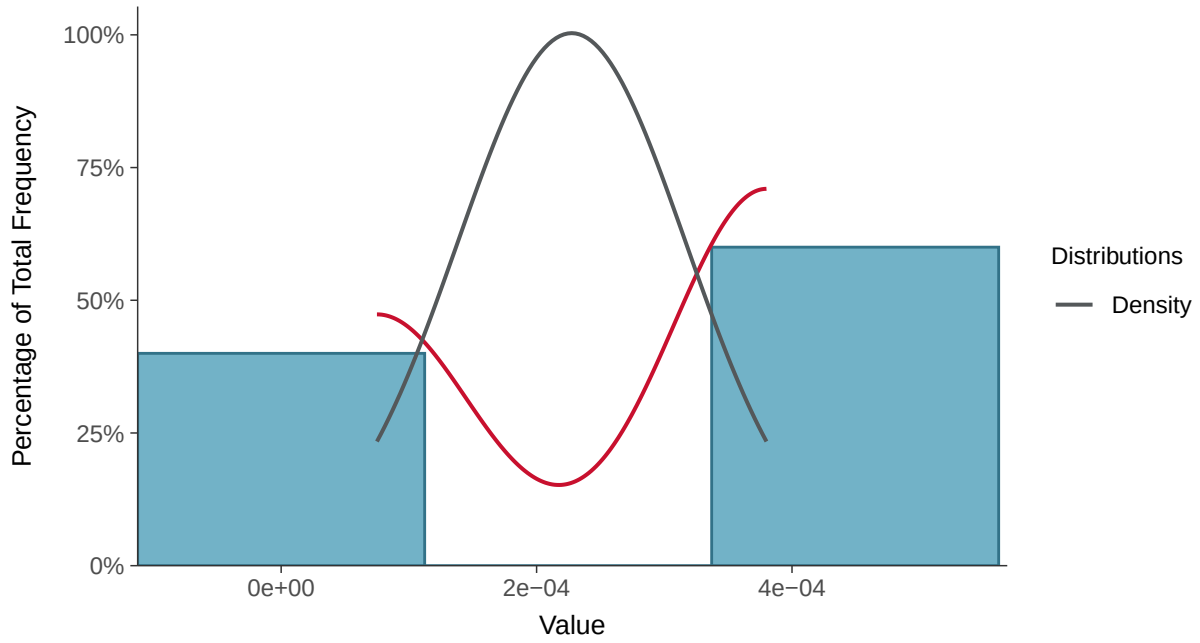
Scatter Plot

Thallium, MW-30 (mg/L)



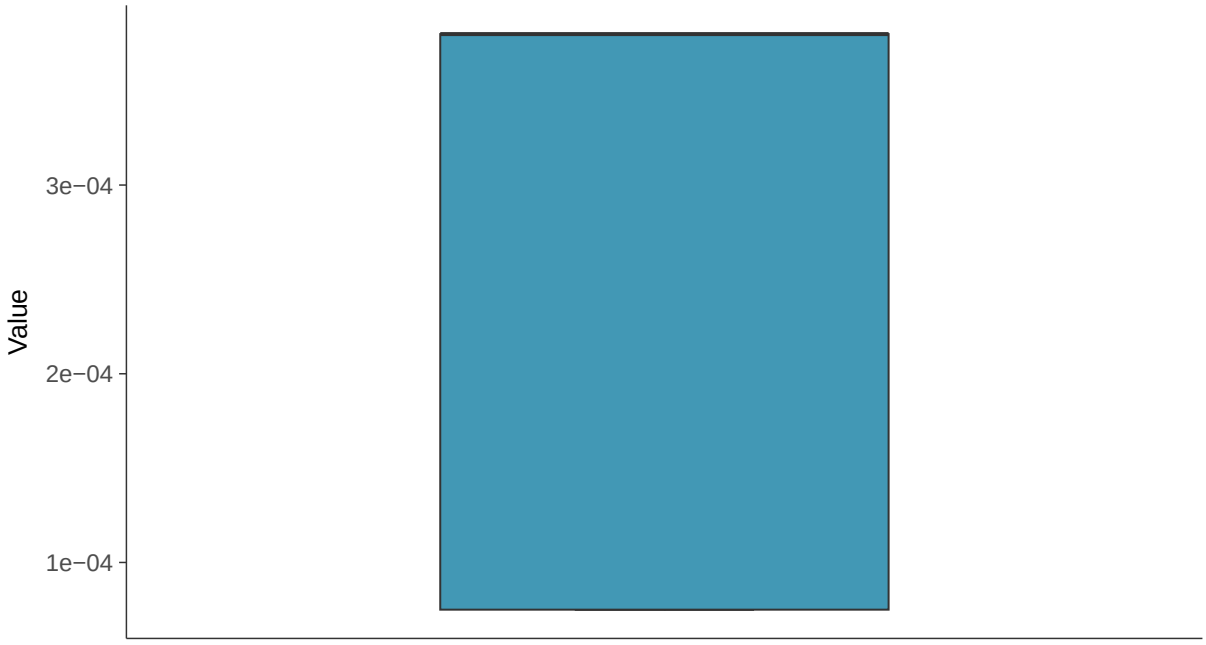
Histogram

Thallium, MW-30 (mg/L)



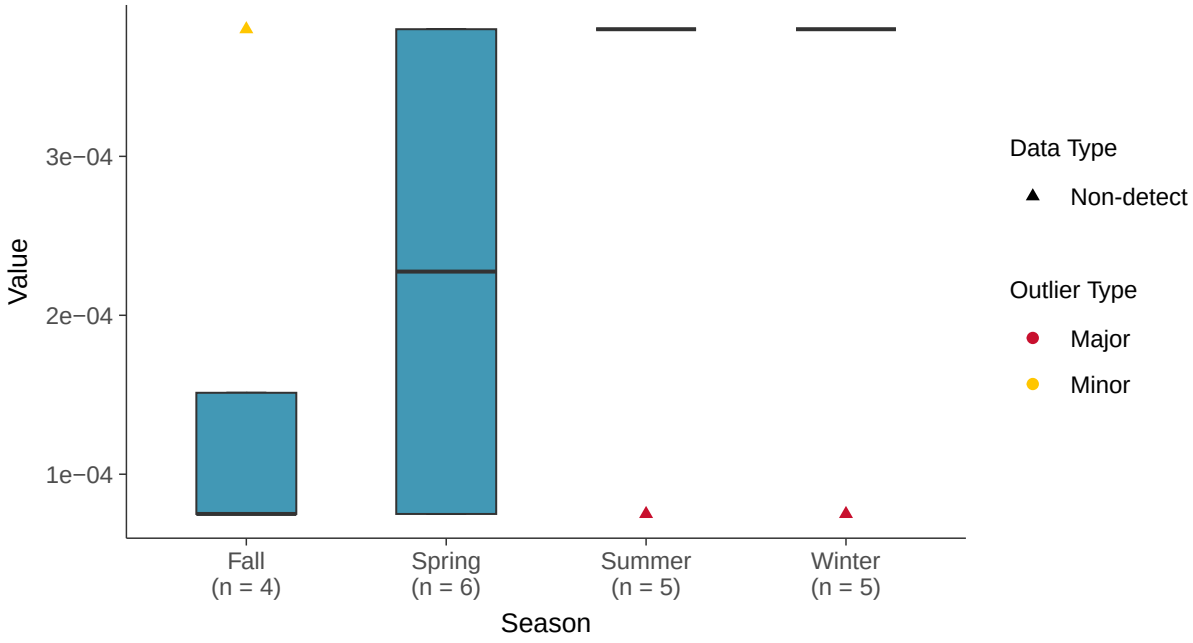
Boxplot

Thallium, MW-30 (mg/L)



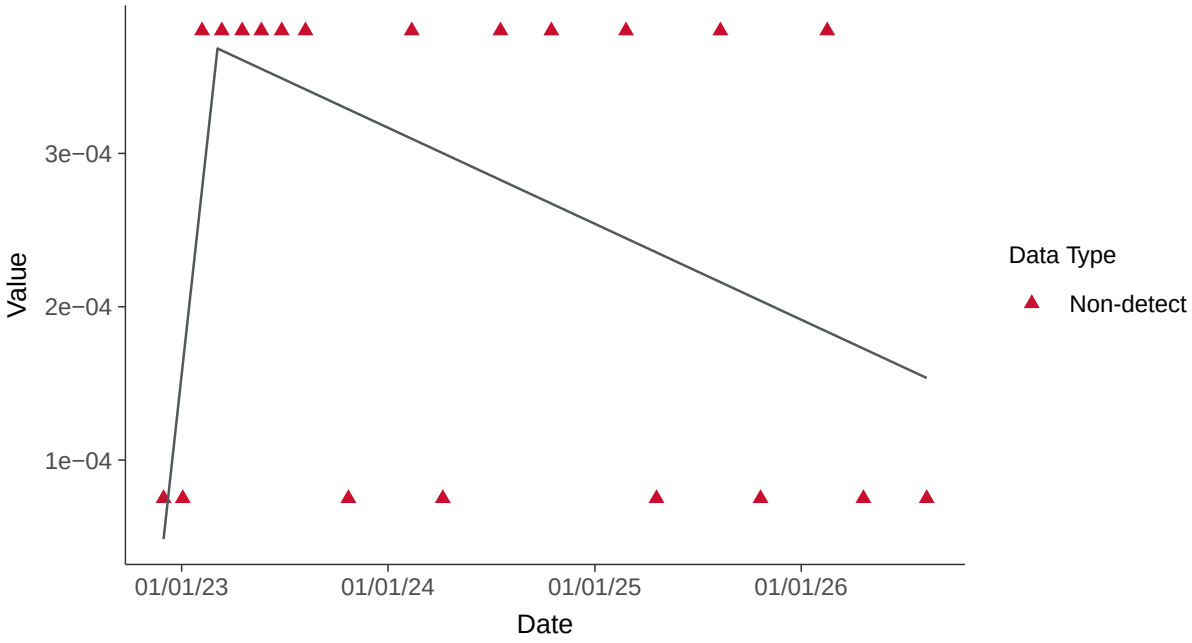
Boxplot by Season

Thallium, MW-30 (mg/L)



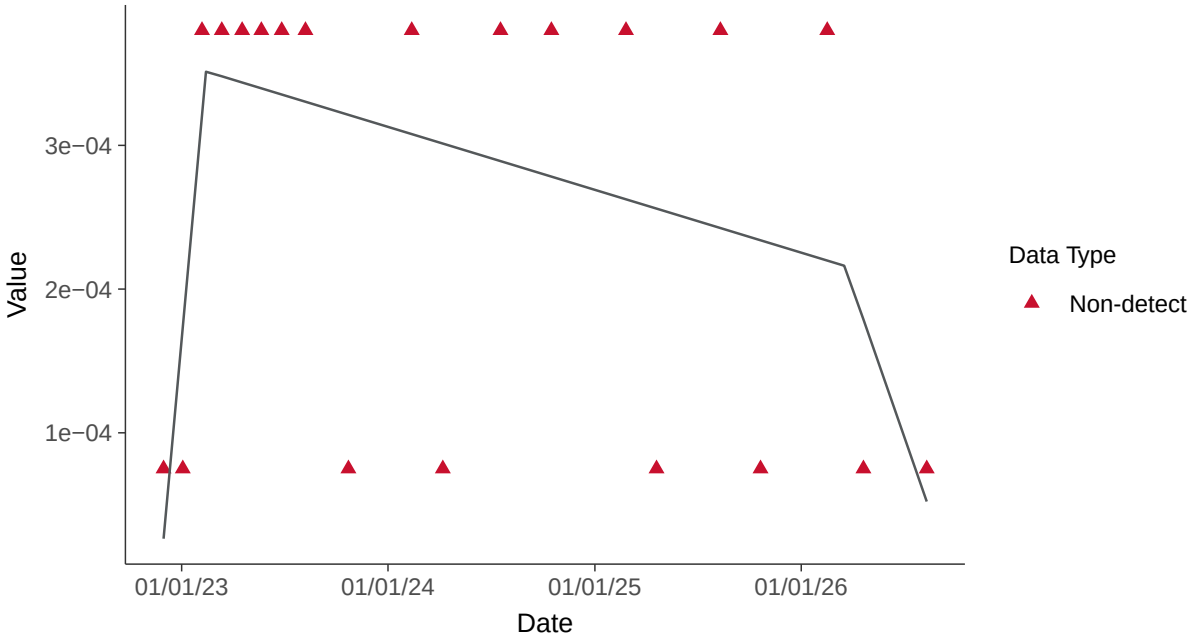
Trend Regression: Piecewise Linear-Linear

Thallium, MW-30 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Thallium, MW-30 (mg/L)

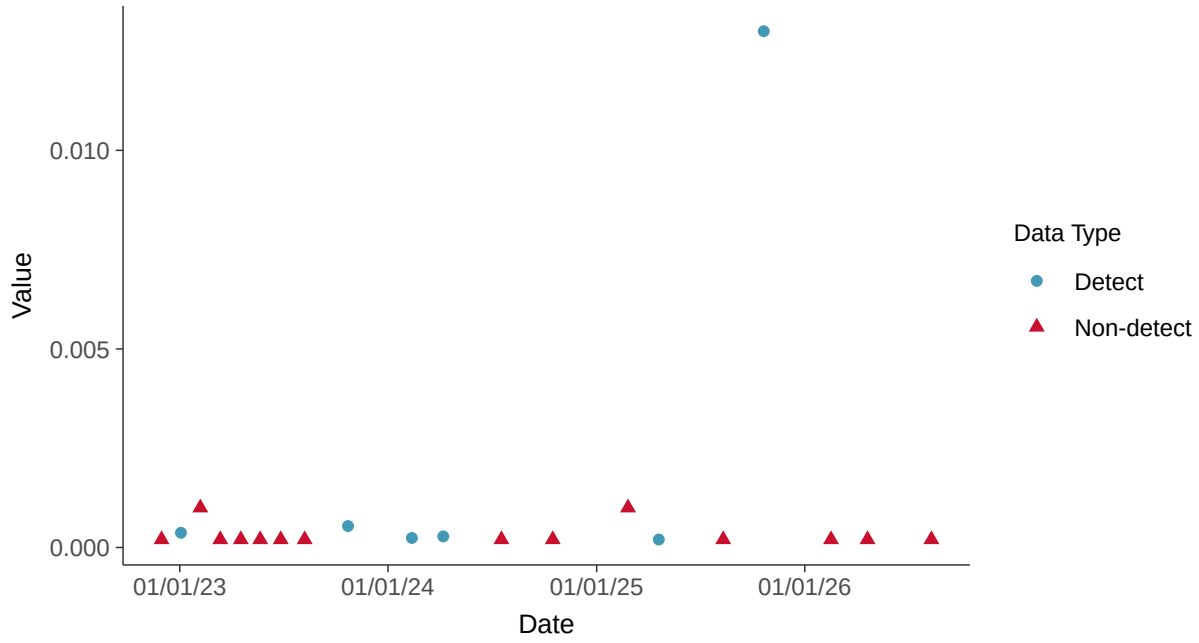


Part 115: Copper, MW-30

ID: 40_1_5_111

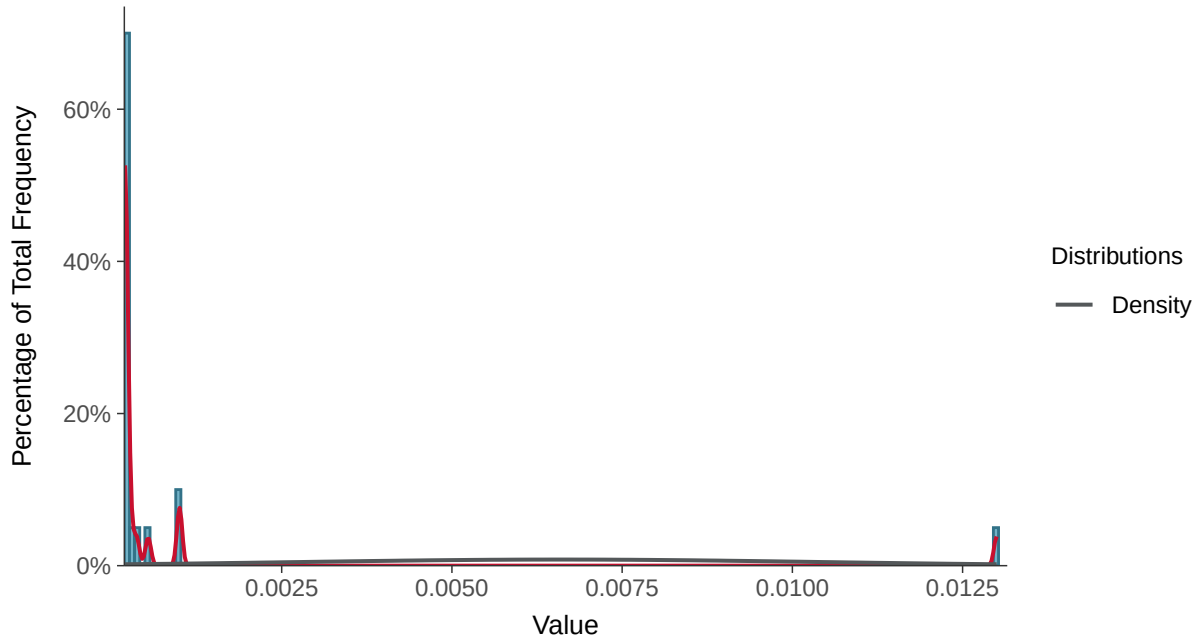
Scatter Plot

Copper, MW-30 (mg/L)



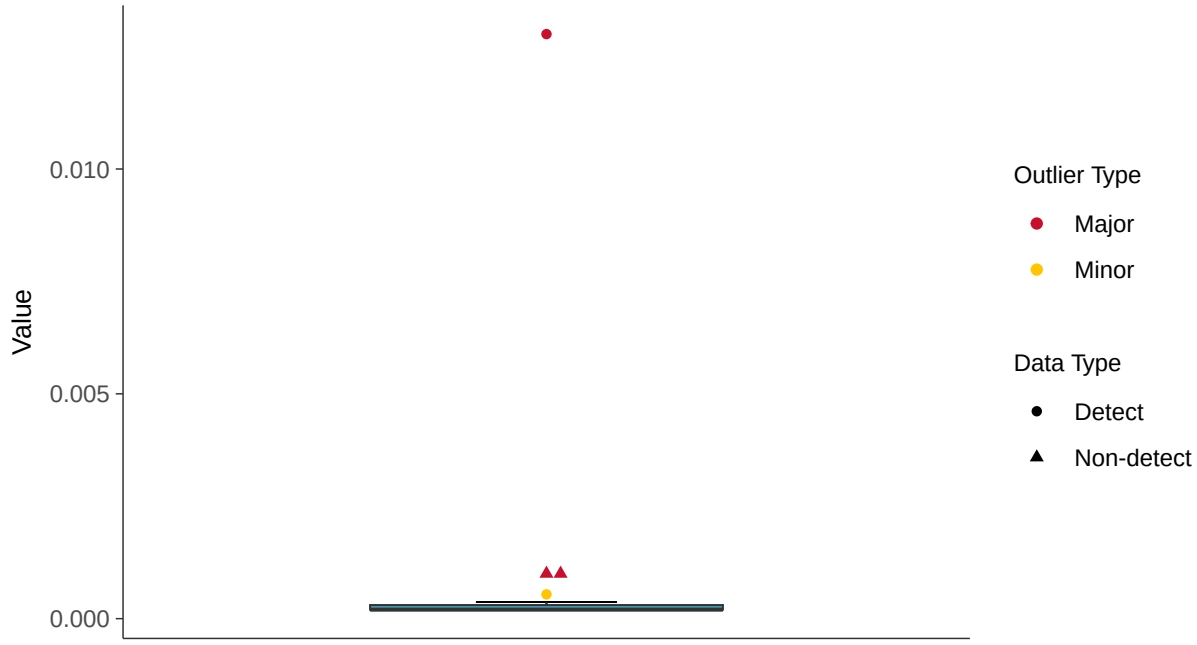
Histogram

Copper, MW-30 (mg/L)



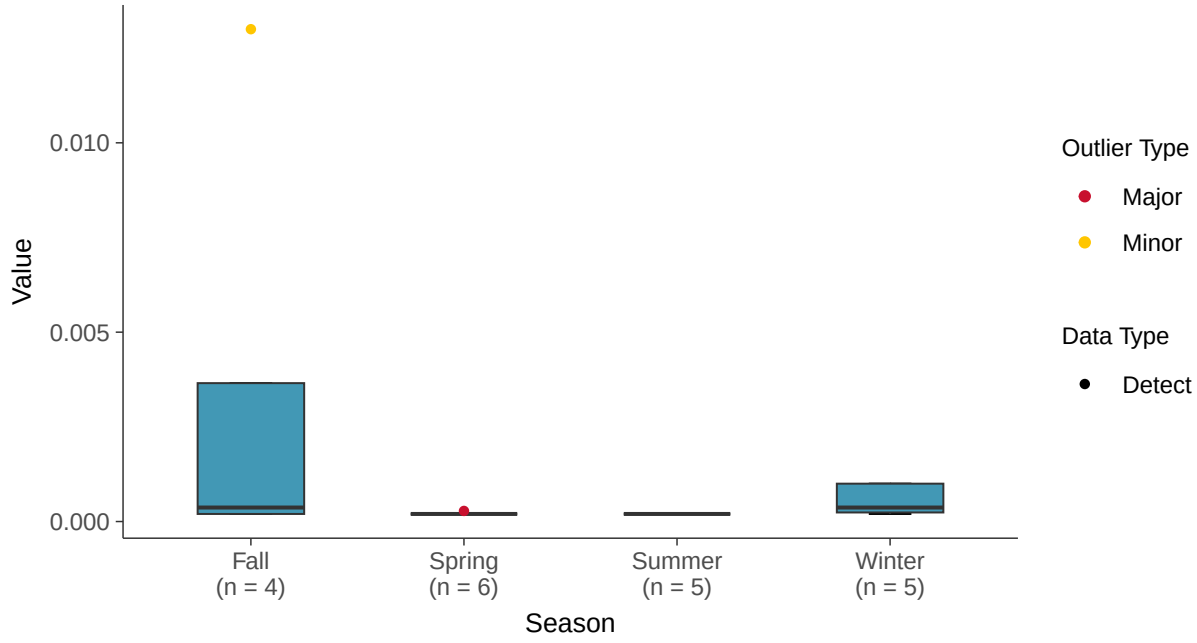
Boxplot

Copper, MW-30 (mg/L)



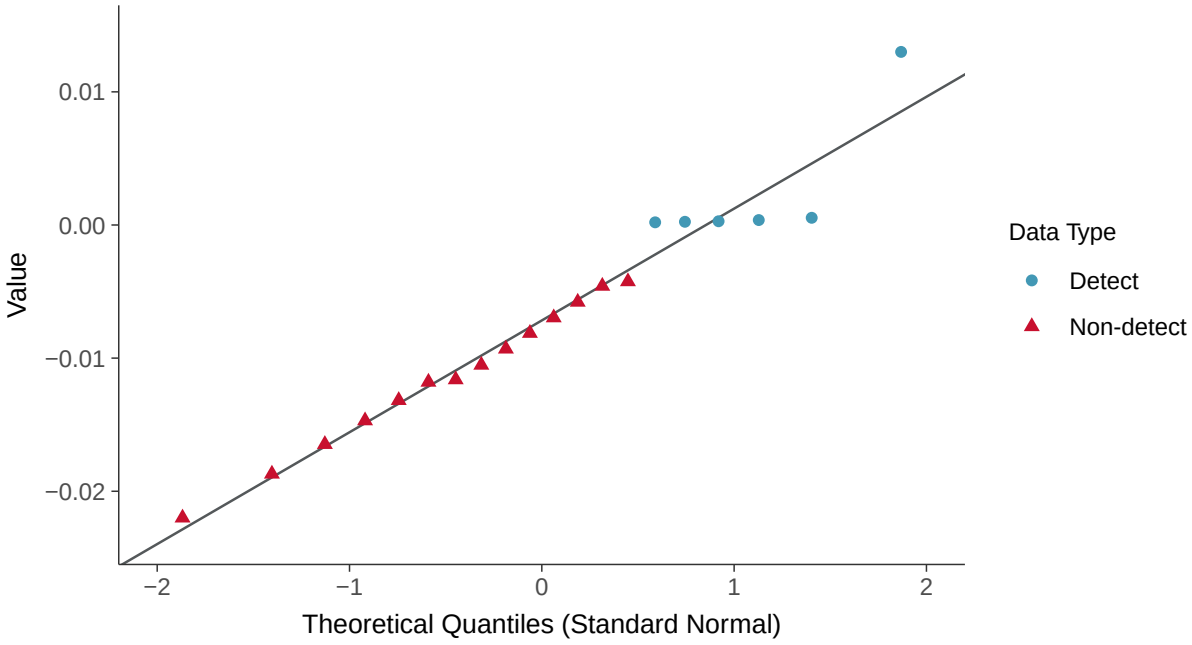
Boxplot by Season

Copper, MW-30 (mg/L)



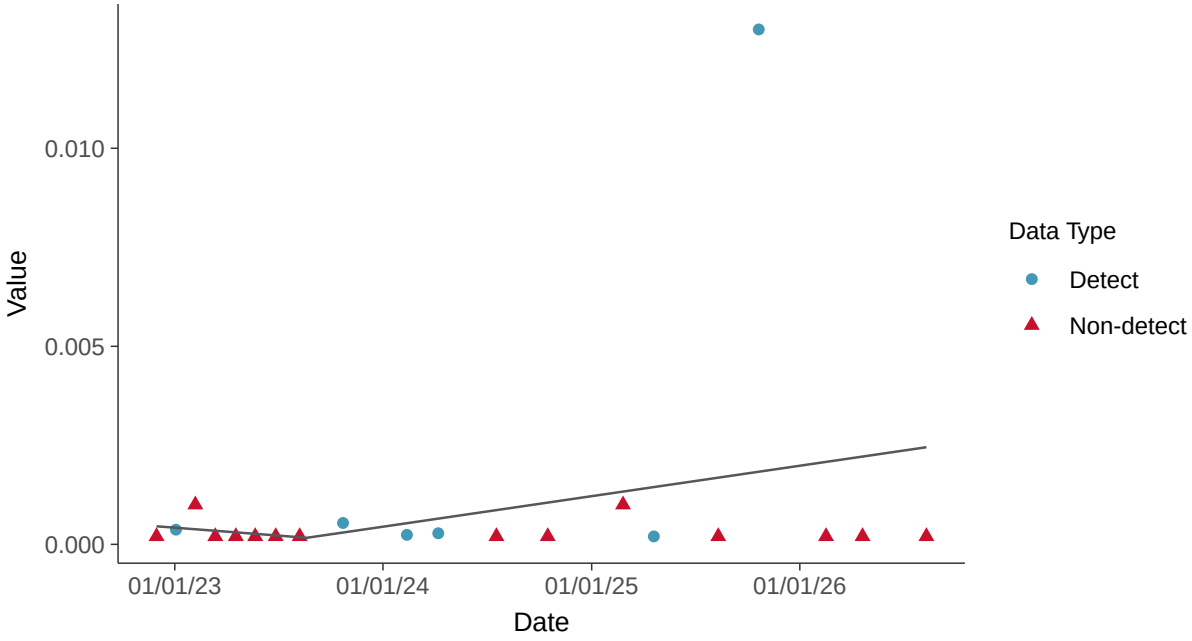
Normal Q-Q plot using ROS Imputed Estimates

Copper, MW-30 (mg/L)



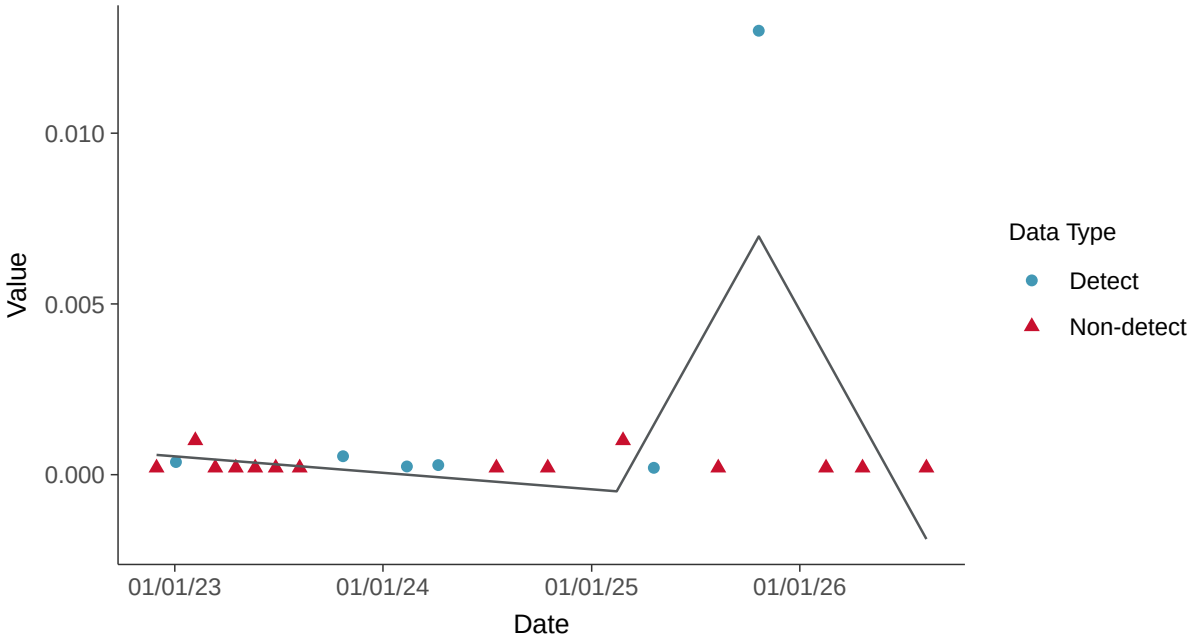
Trend Regression: Piecewise Linear-Linear

Copper, MW-30 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Copper, MW-30 (mg/L)

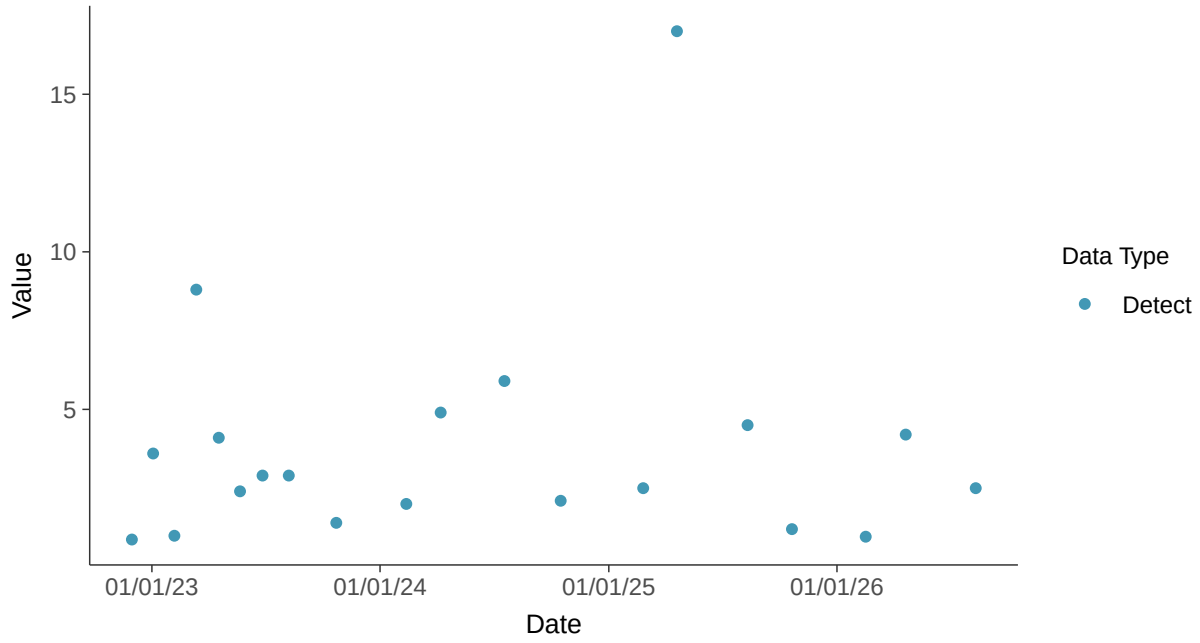


Part 115: Iron, MW-30

ID: 40_1_5_114

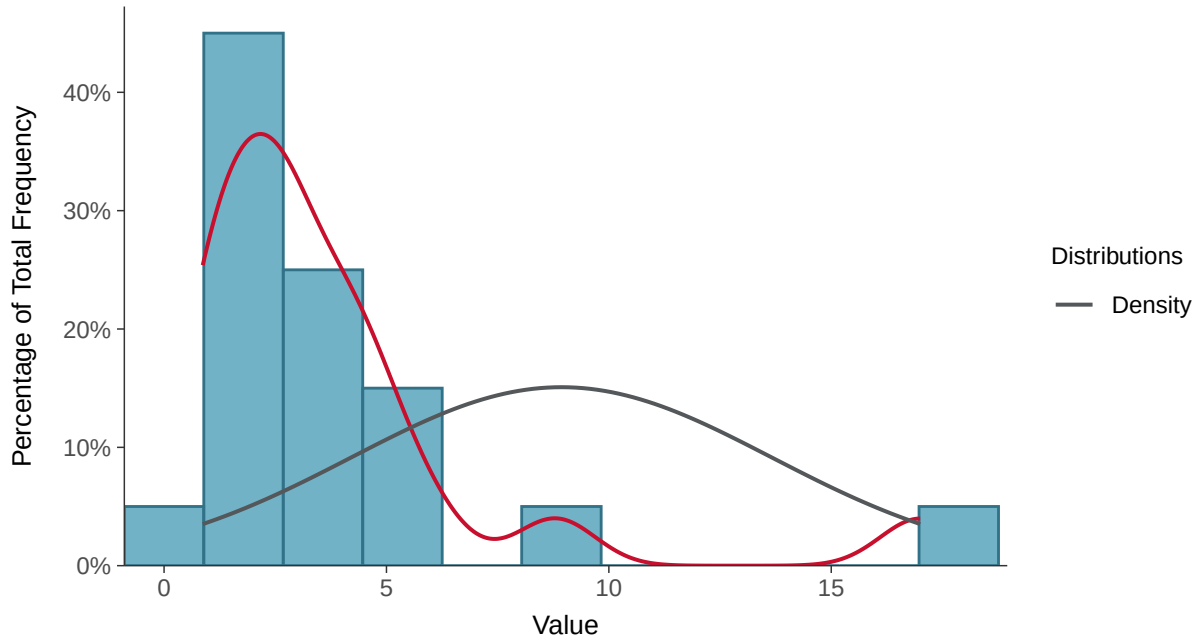
Scatter Plot

Iron, MW-30 (mg/L)



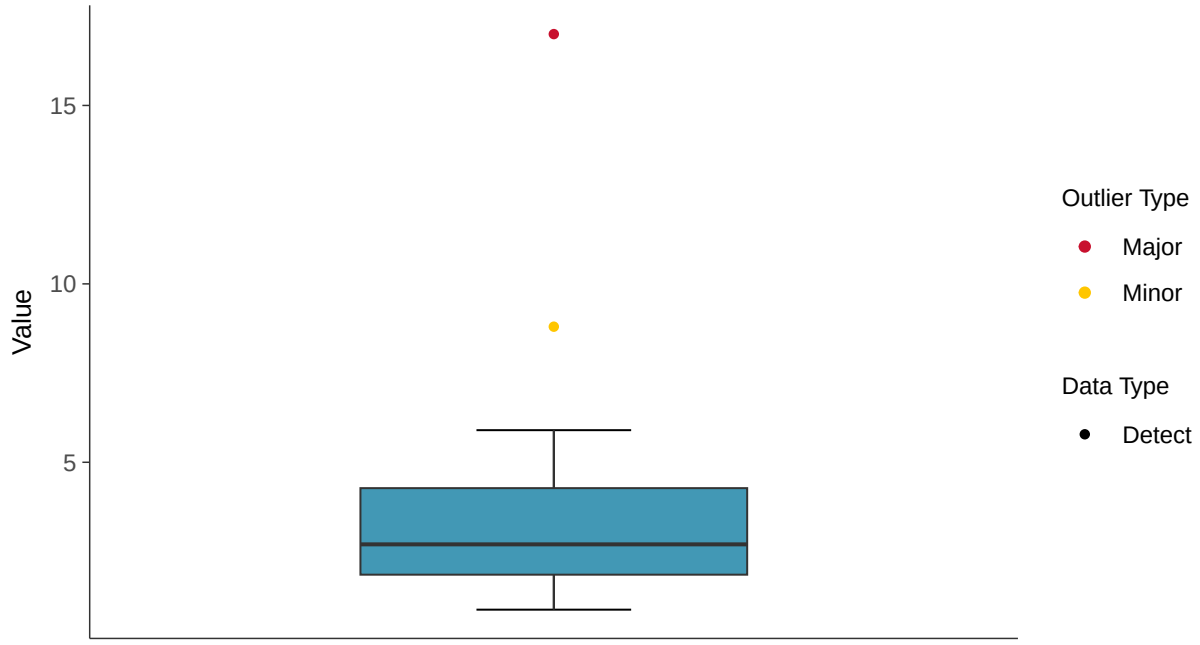
Histogram

Iron, MW-30 (mg/L)



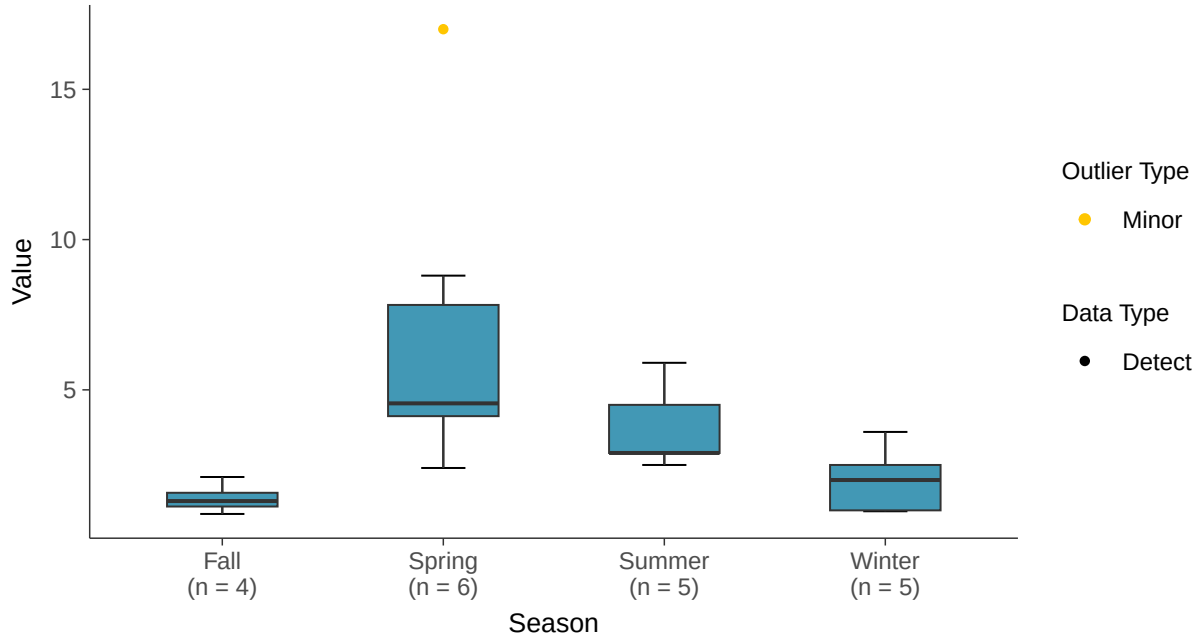
Boxplot

Iron, MW-30 (mg/L)



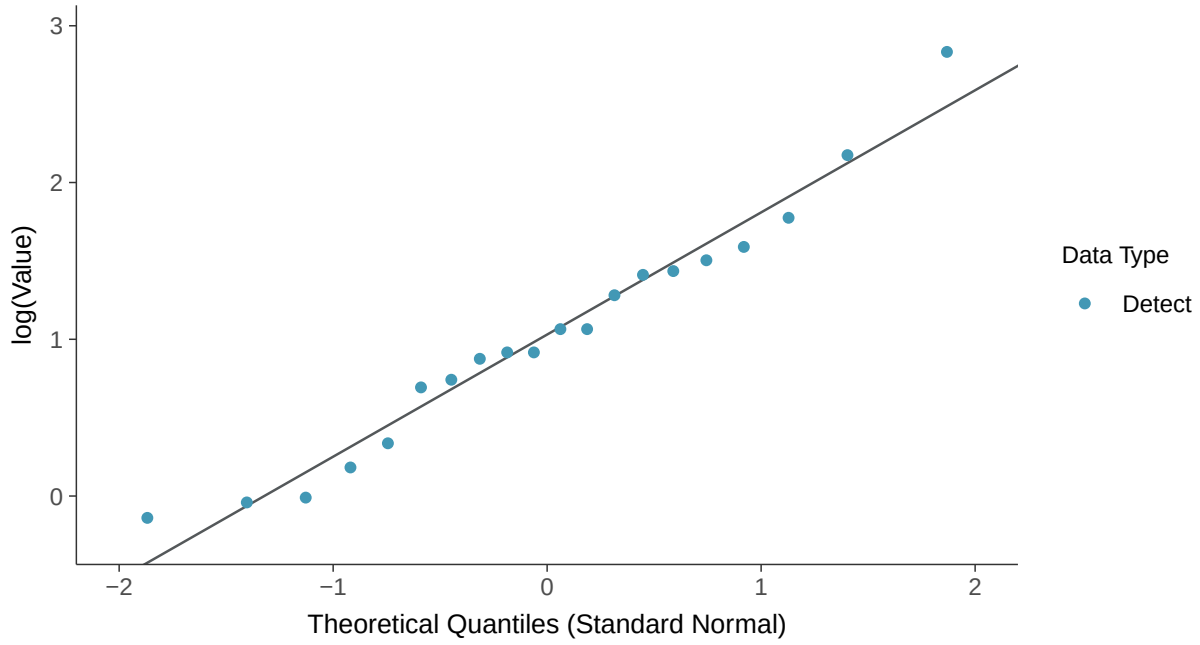
Boxplot by Season

Iron, MW-30 (mg/L)



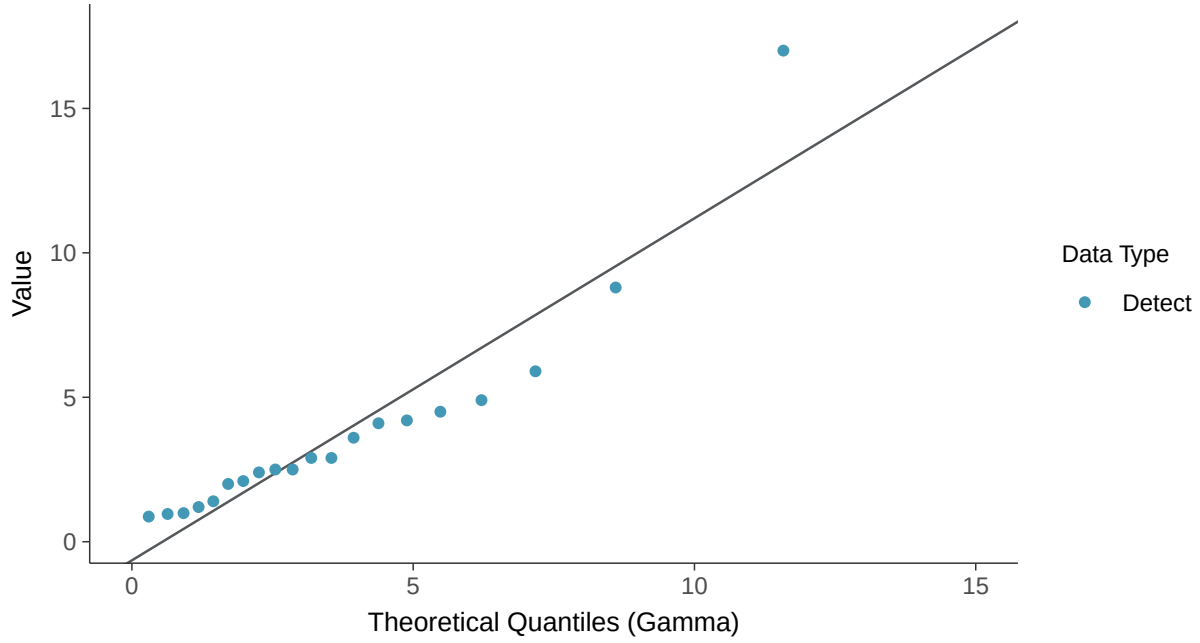
Lognormal Q-Q plot

Iron, MW-30 (mg/L)



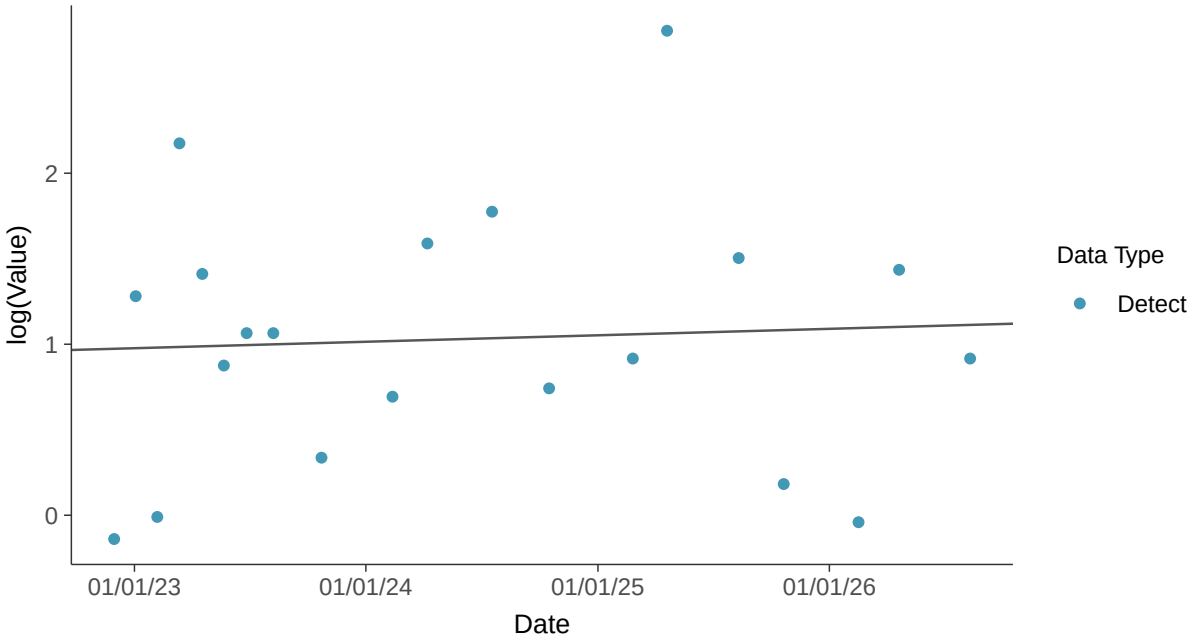
Gamma Q-Q plot

Iron, MW-30 (mg/L)



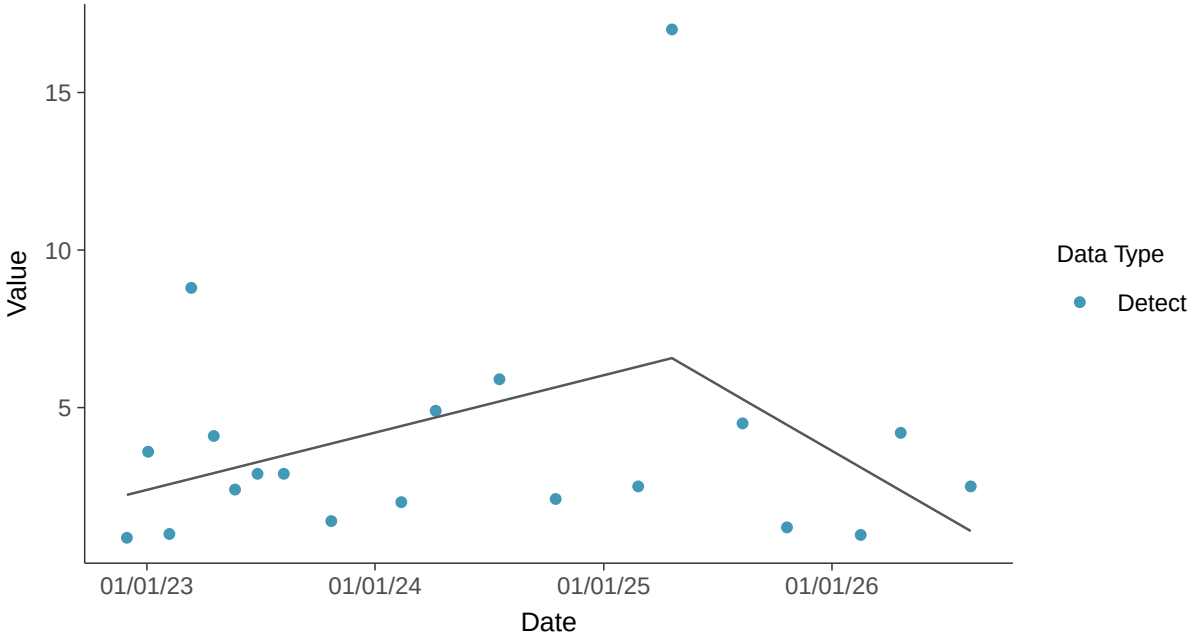
Trend Regression: Lognormal MLE

Iron, MW-30 (mg/L)



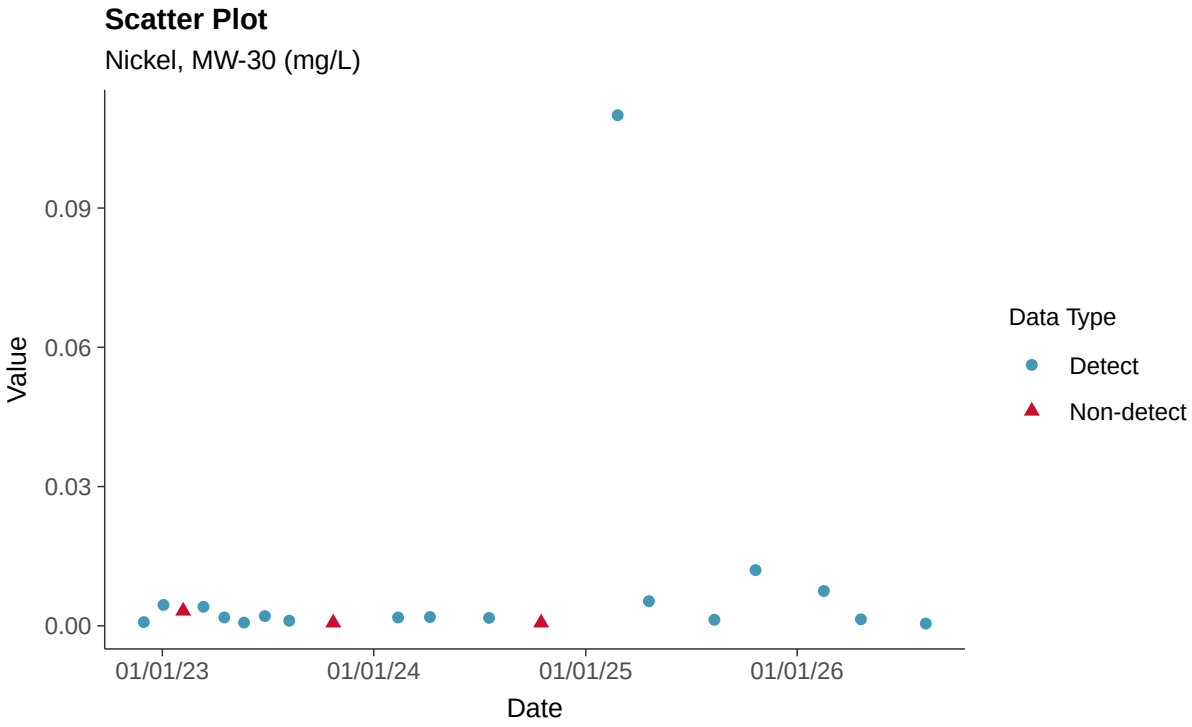
Trend Regression: Piecewise Linear-Linear

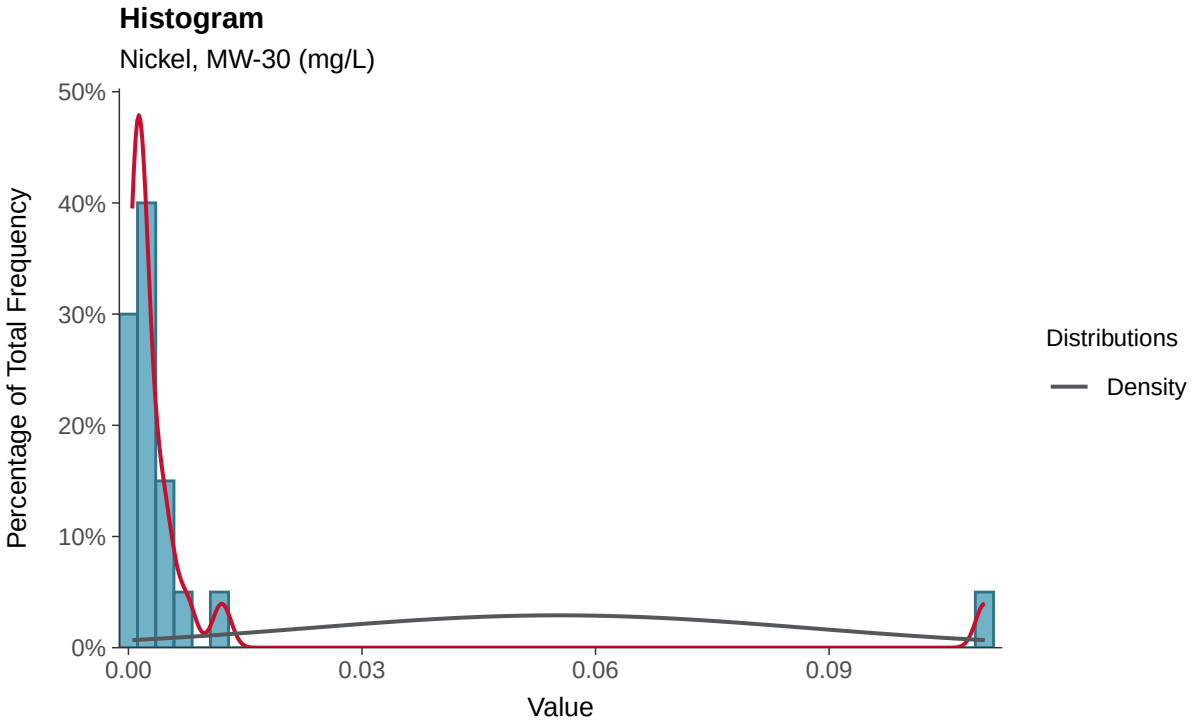
Iron, MW-30 (mg/L)



Part 115: Nickel, MW-30

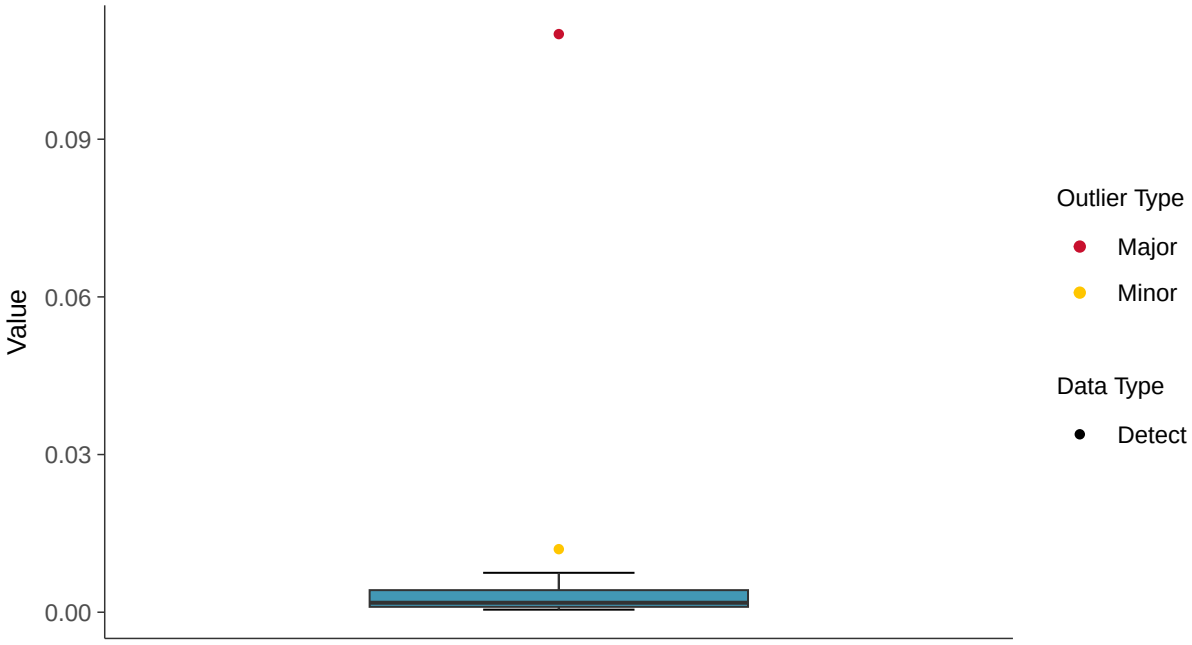
ID: 40_1_5_119





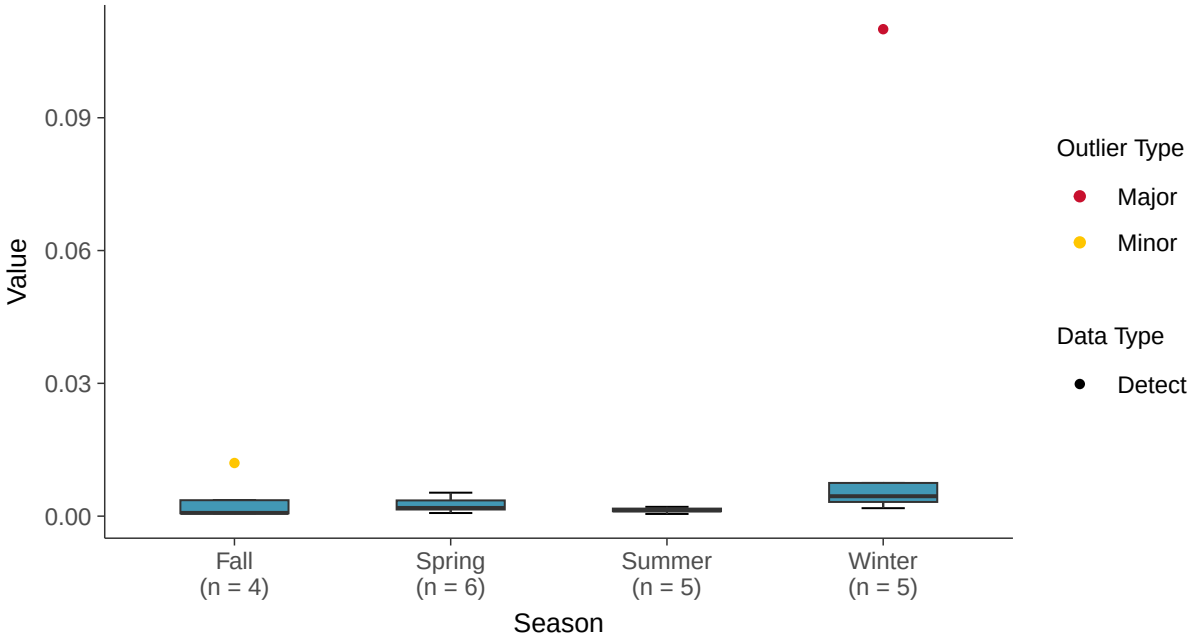
Boxplot

Nickel, MW-30 (mg/L)



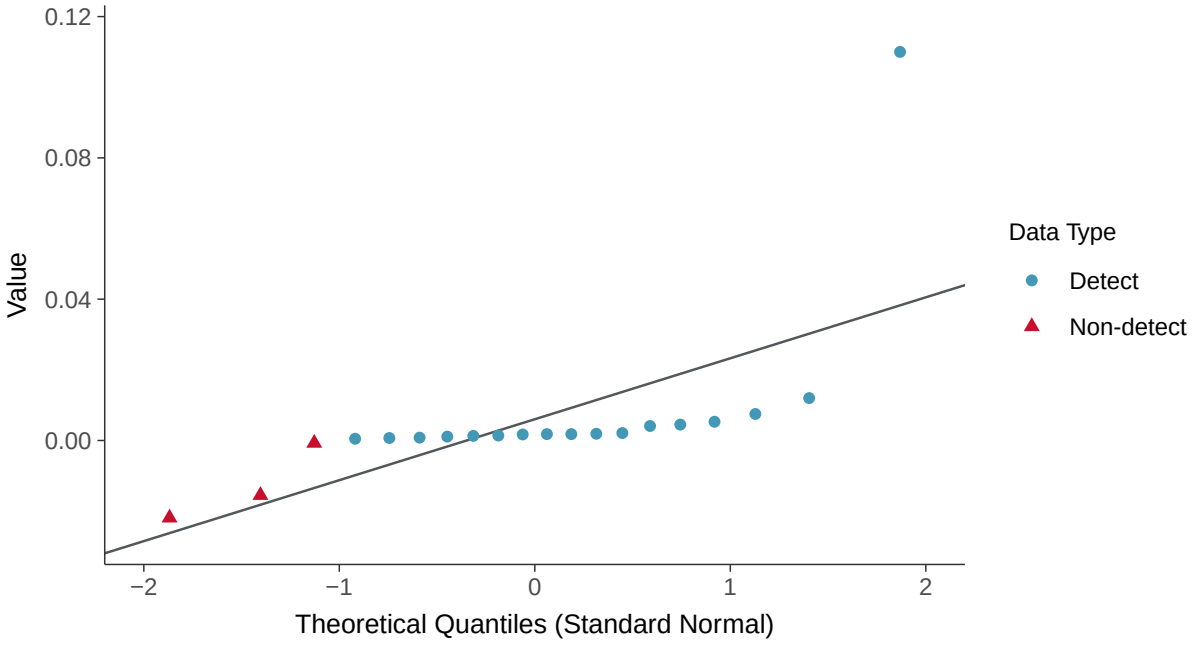
Boxplot by Season

Nickel, MW-30 (mg/L)



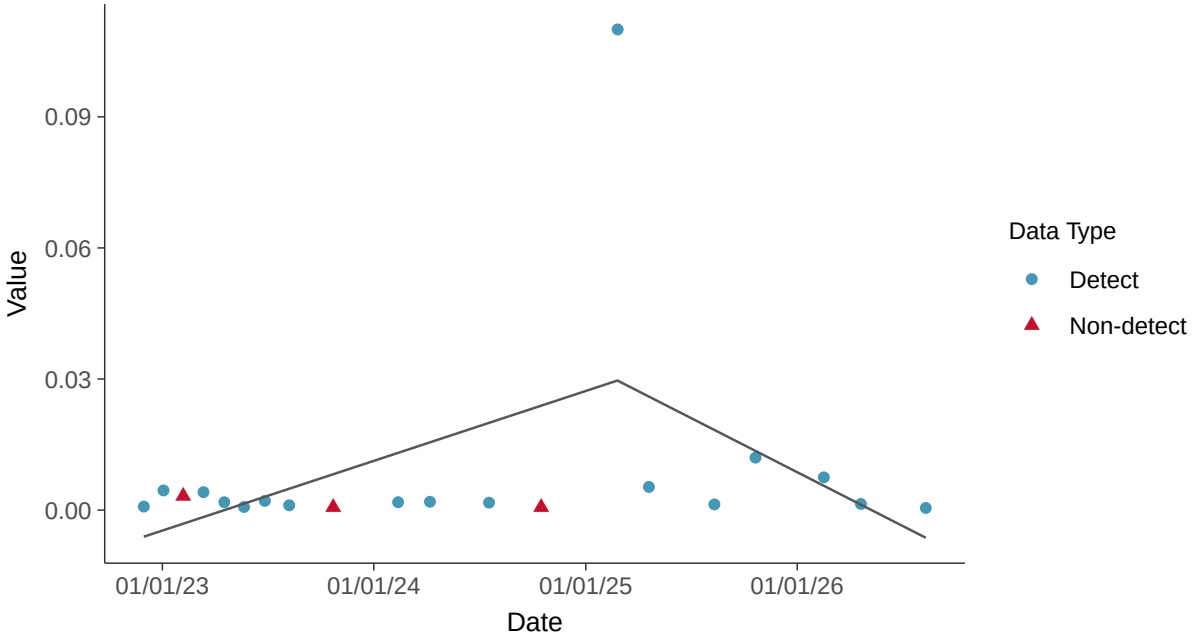
Normal Q-Q plot using ROS Imputed Estimates

Nickel, MW-30 (mg/L)



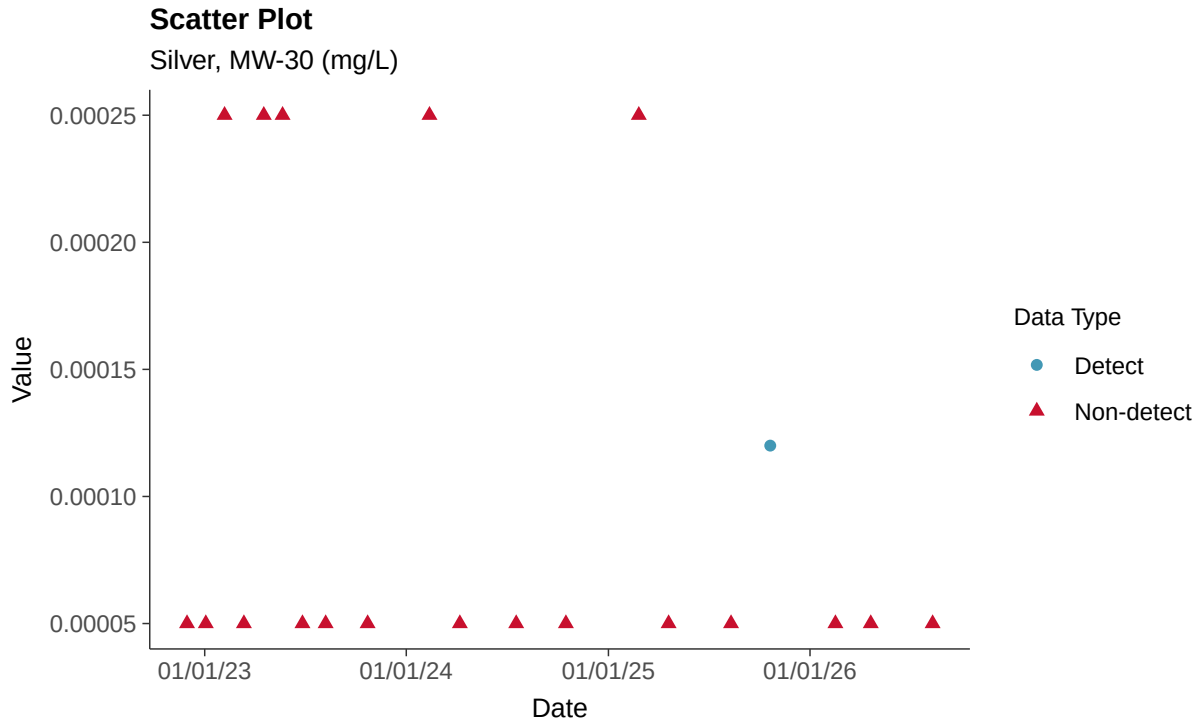
Trend Regression: Piecewise Linear-Linear

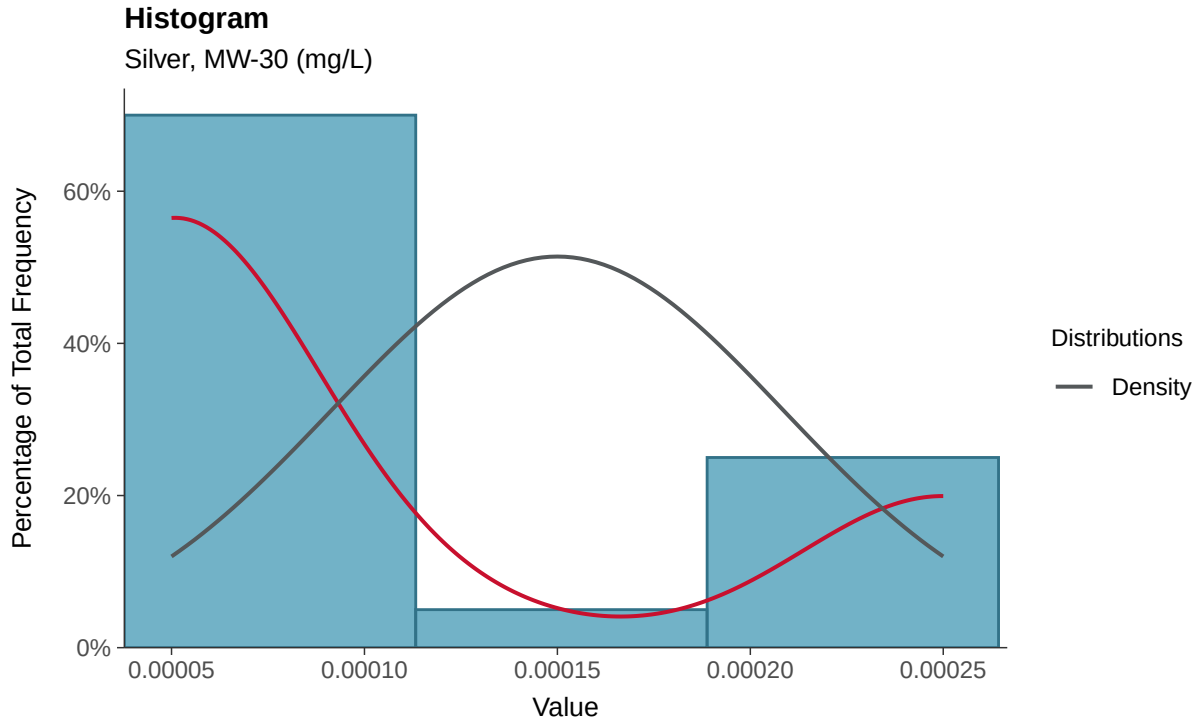
Nickel, MW-30 (mg/L)



Part 115: Silver, MW-30

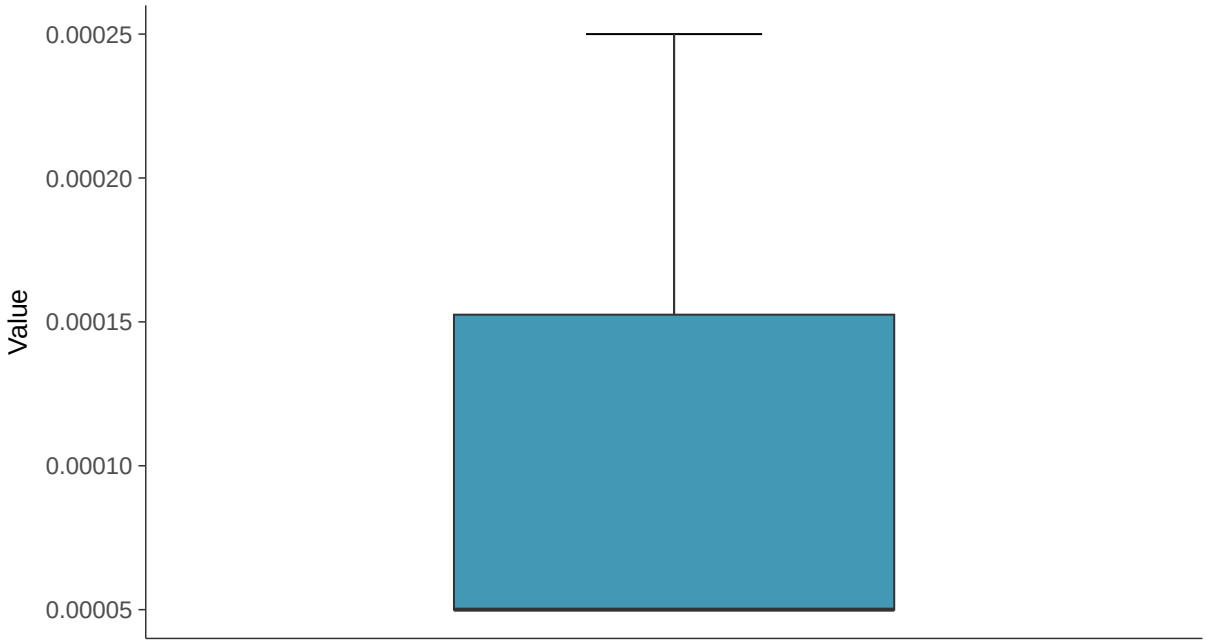
ID: 40_1_5_123





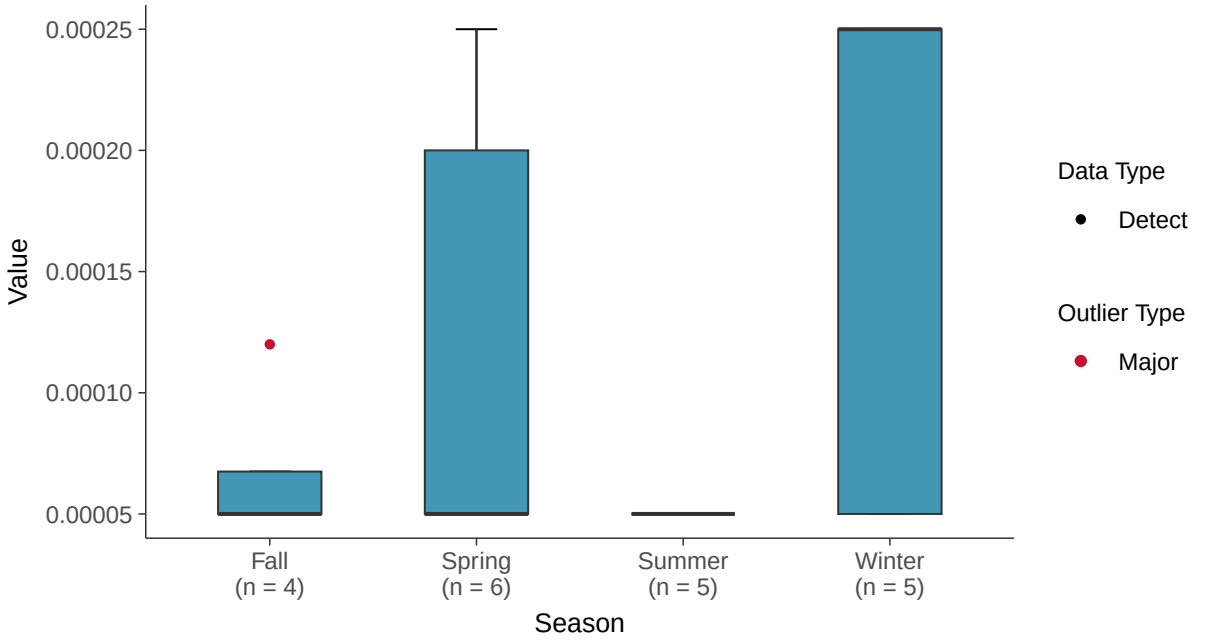
Boxplot

Silver, MW-30 (mg/L)



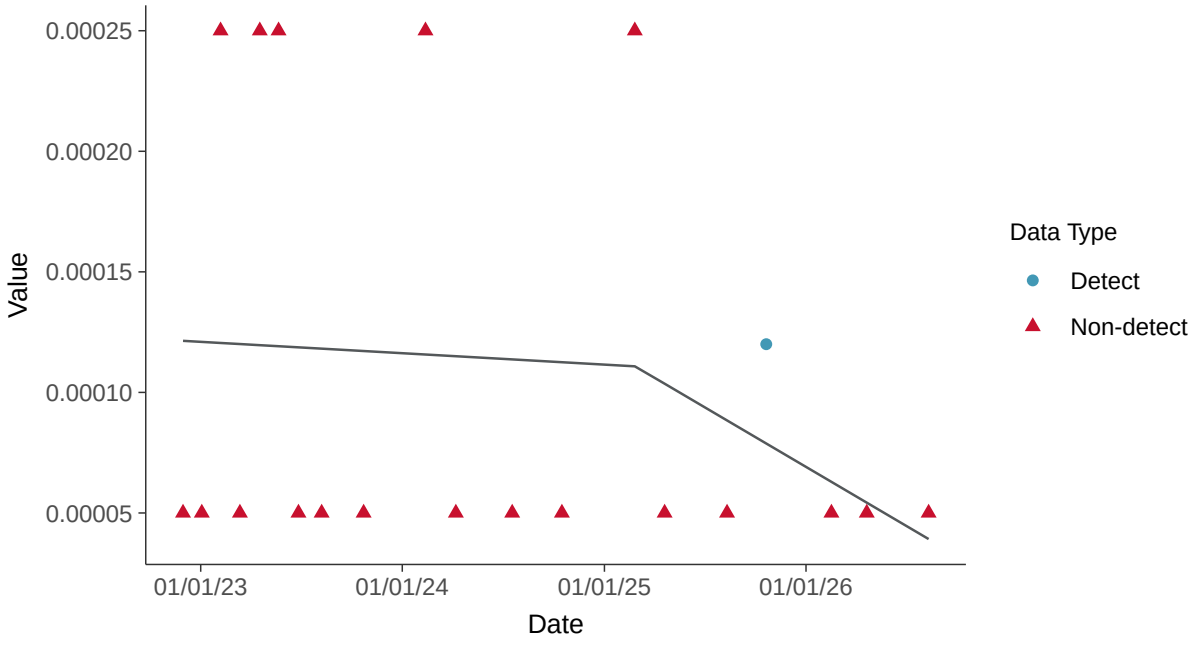
Boxplot by Season

Silver, MW-30 (mg/L)



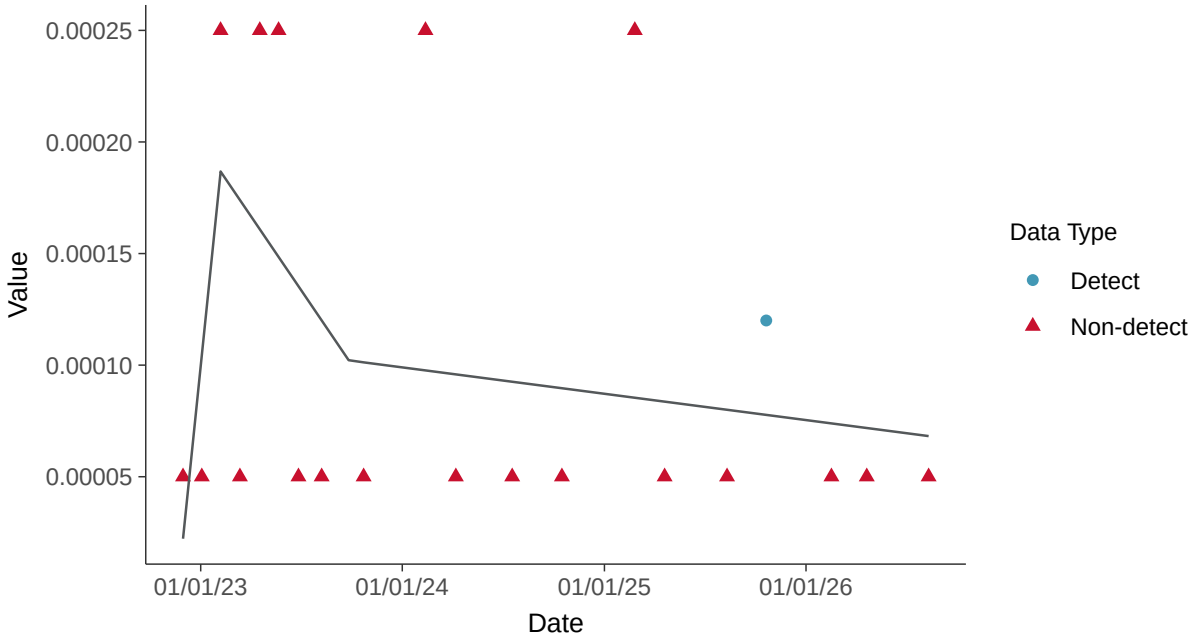
Trend Regression: Piecewise Linear-Linear

Silver, MW-30 (mg/L)



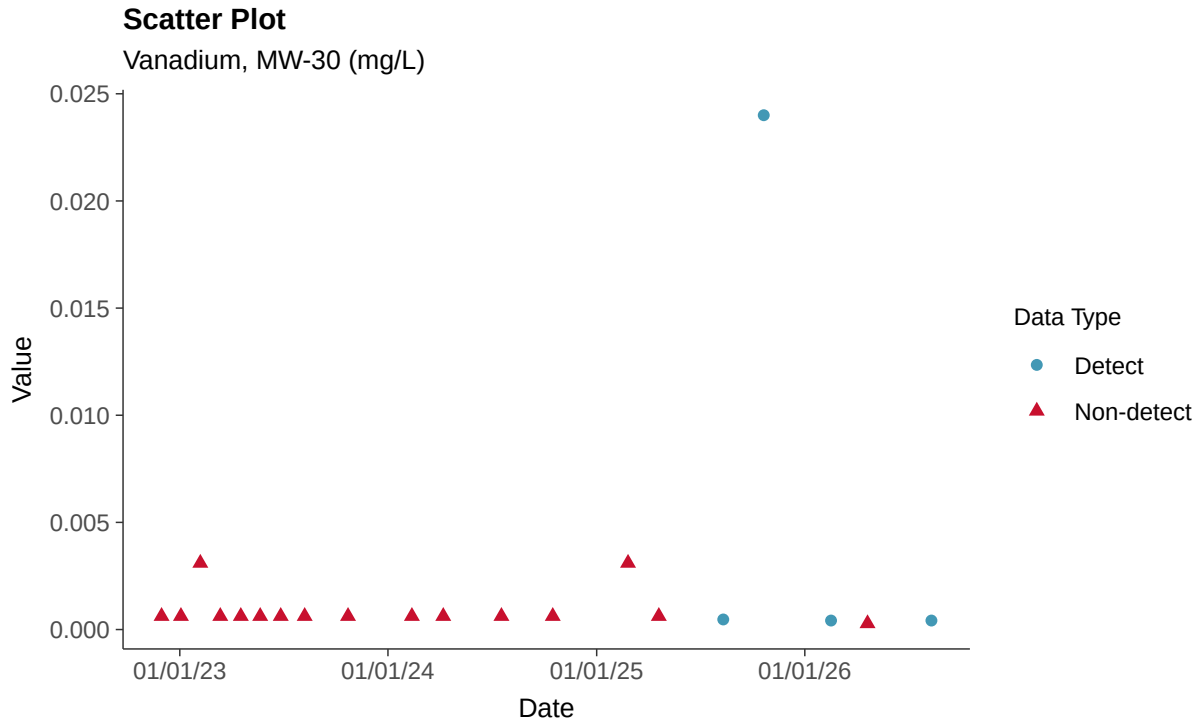
Trend Regression: Piecewise Linear-Linear-Linear

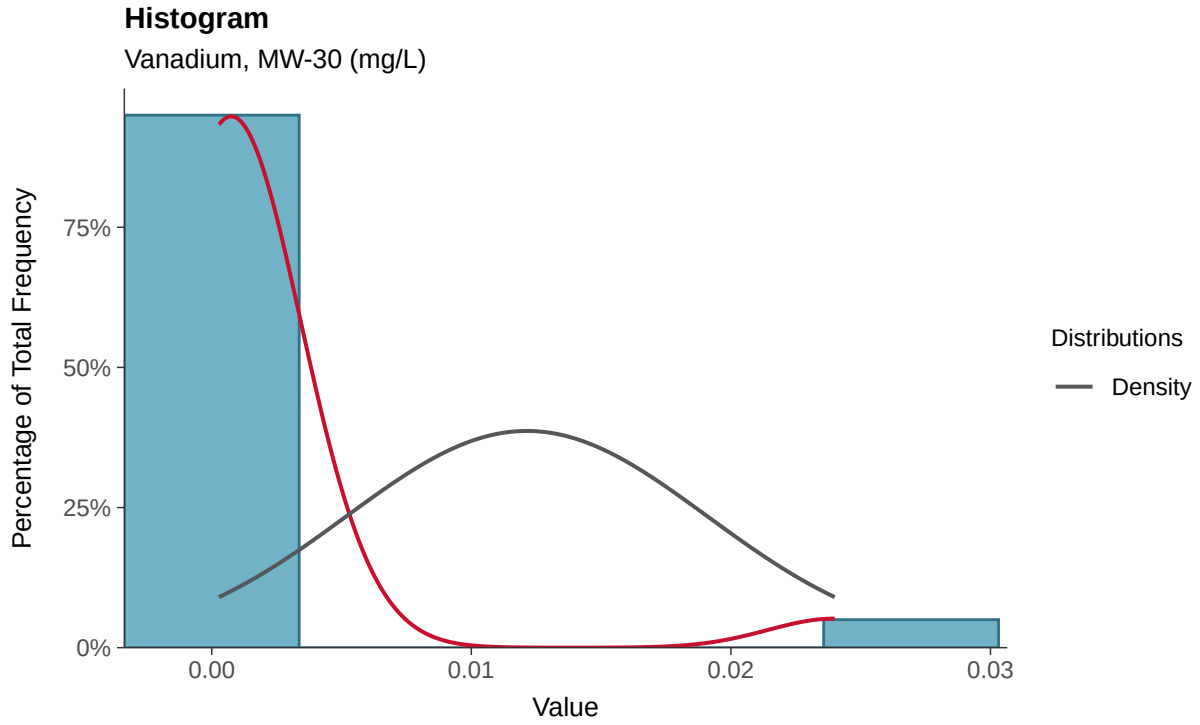
Silver, MW-30 (mg/L)



Part 115: Vanadium, MW-30

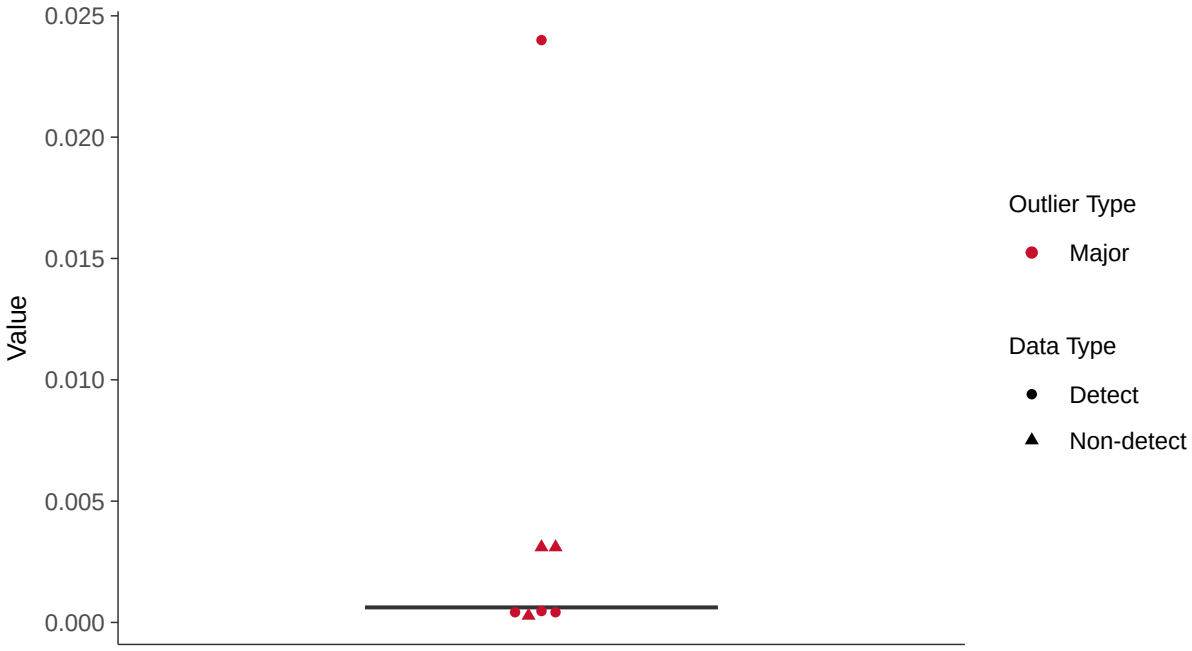
ID: 40_1_5_128





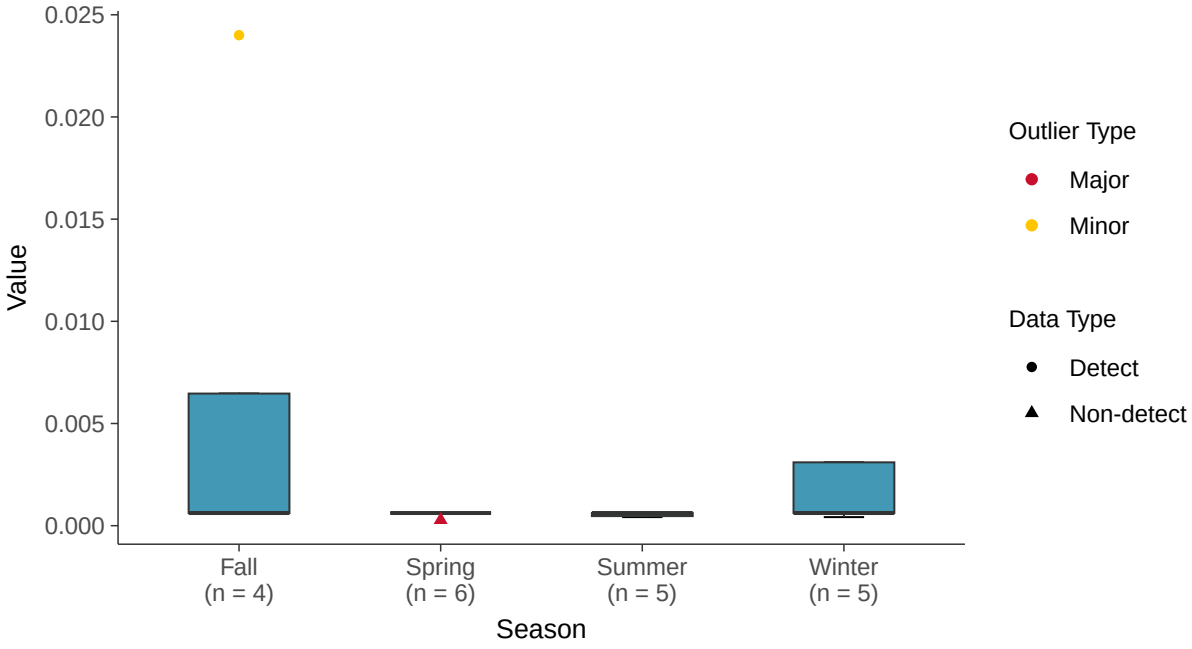
Boxplot

Vanadium, MW-30 (mg/L)



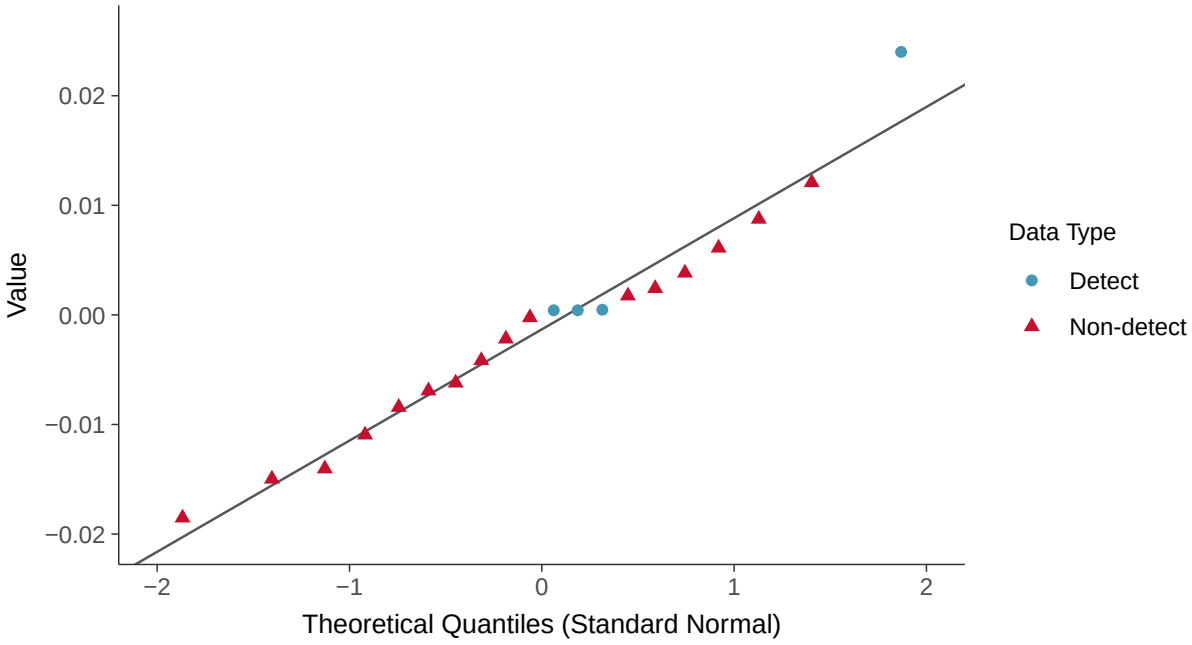
Boxplot by Season

Vanadium, MW-30 (mg/L)



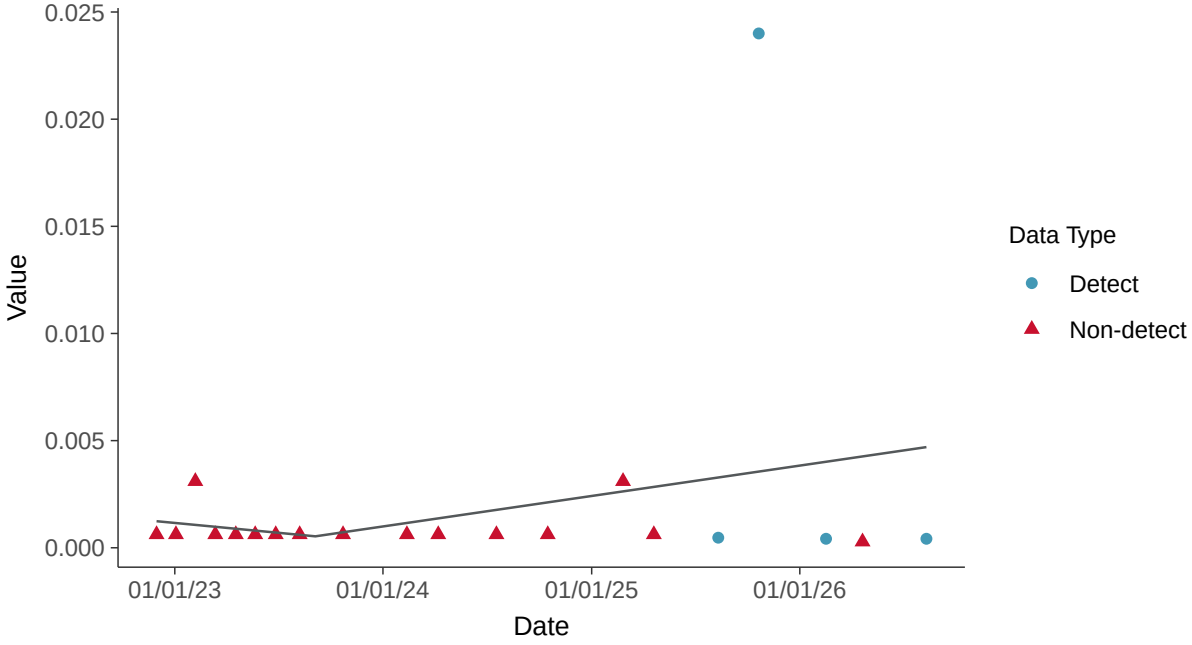
Normal Q-Q plot using ROS Imputed Estimates

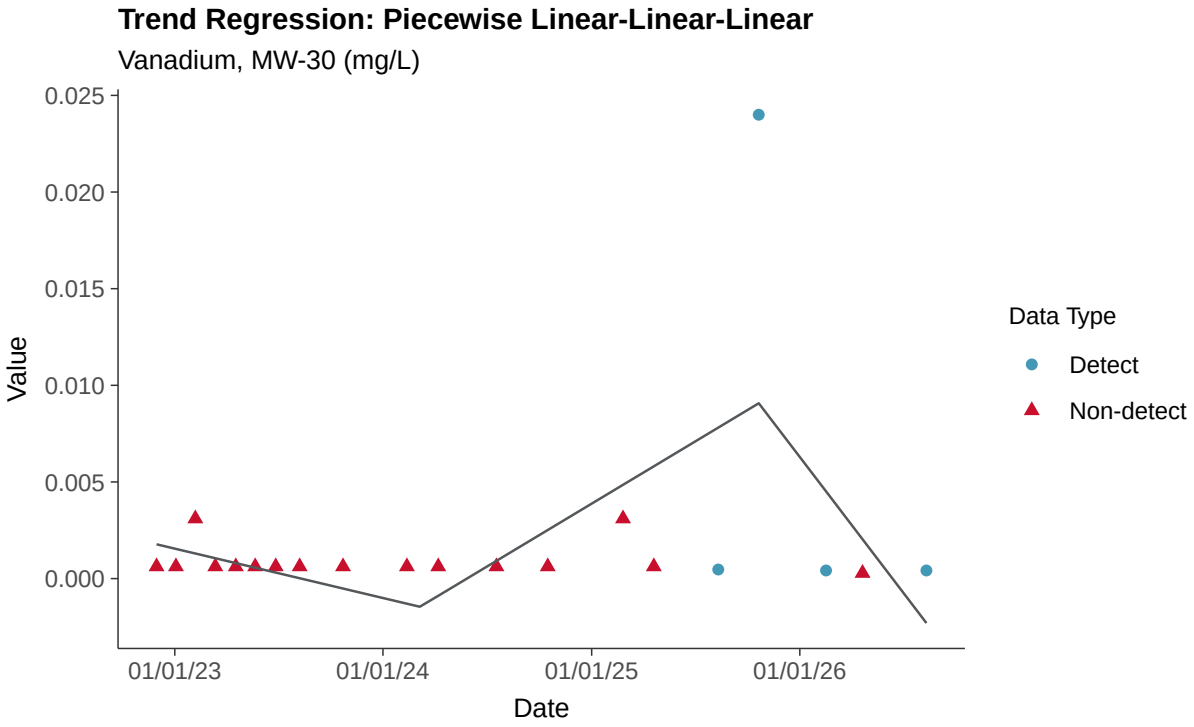
Vanadium, MW-30 (mg/L)



Trend Regression: Piecewise Linear-Linear

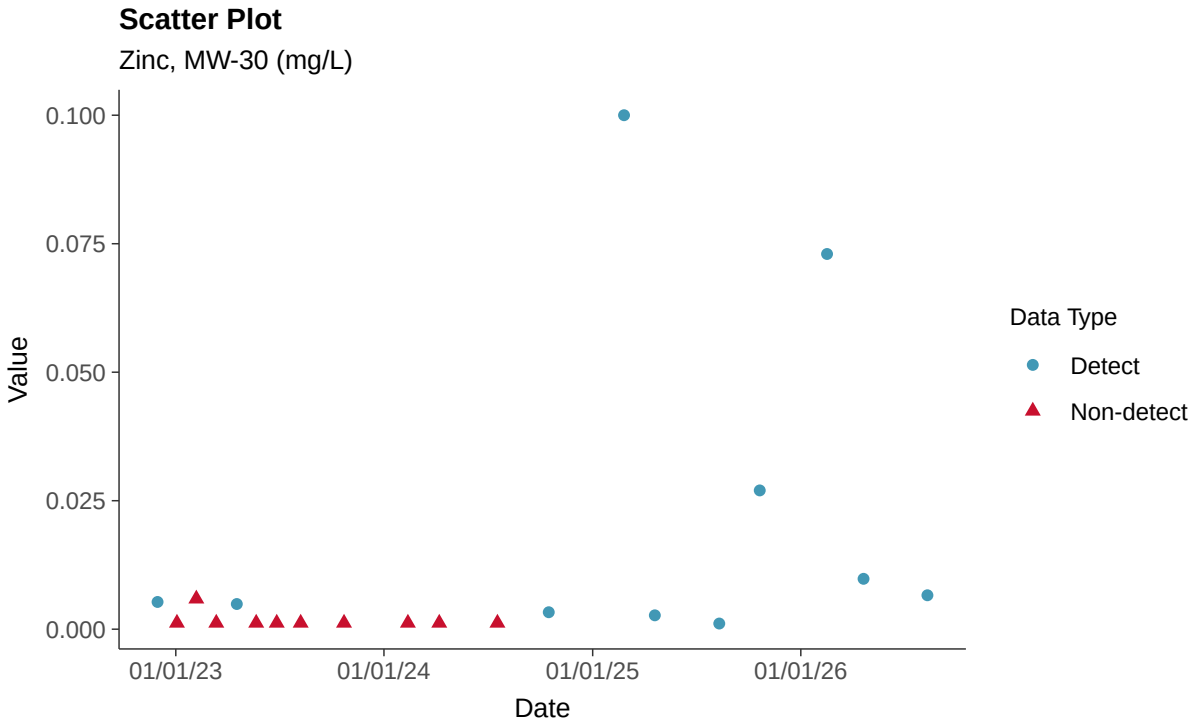
Vanadium, MW-30 (mg/L)

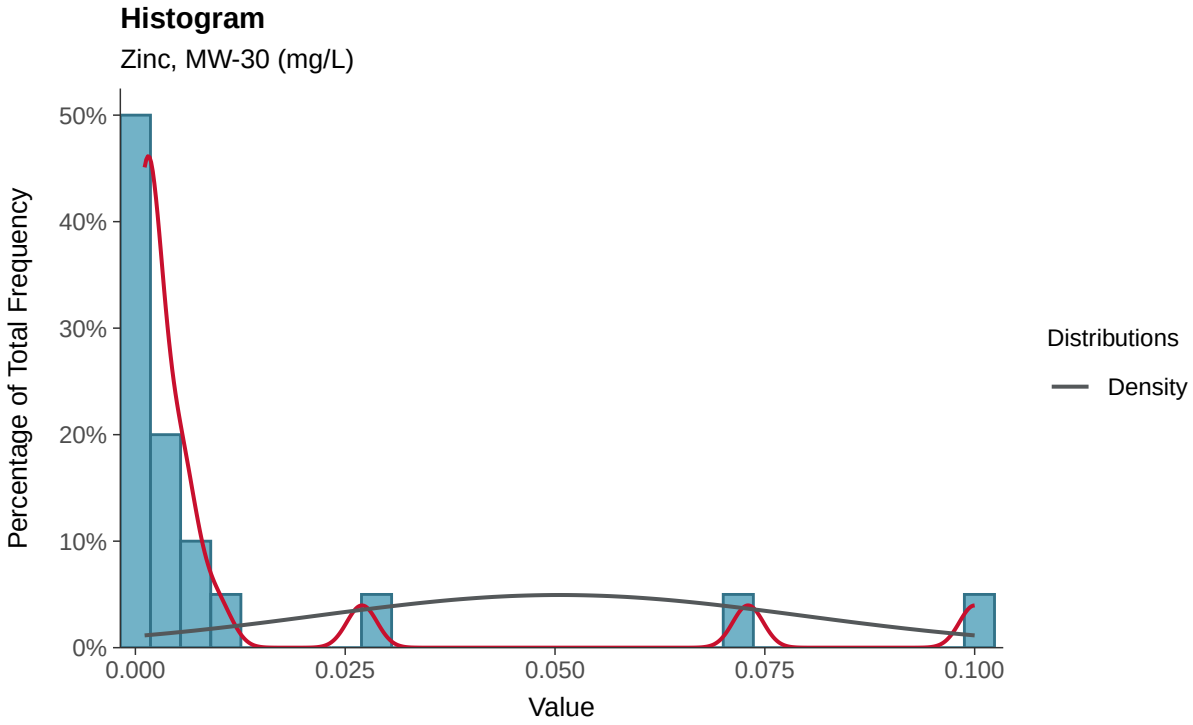



Trend Regression: Piecewise Linear-Linear-Linear
Vanadium, MW-30 (mg/L)
0.025
0.020
0.015
0.010
0.005
0.000
Value
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect
Non-detect

Part 115: Zinc, MW-30

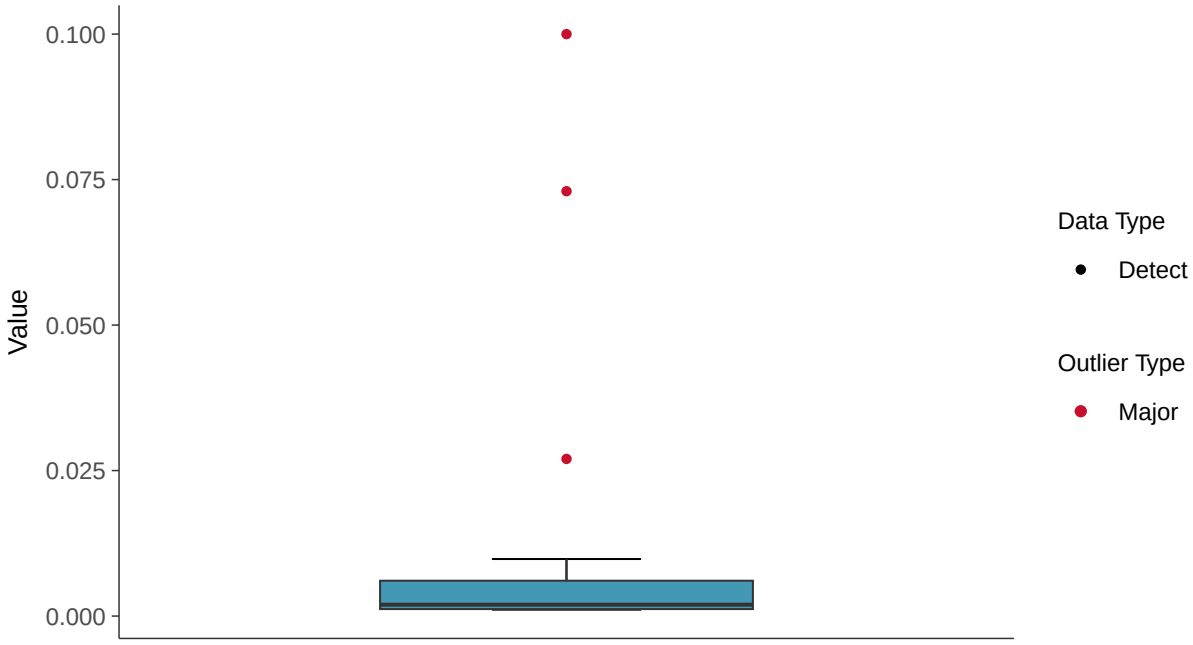
ID: 40_1_5_129





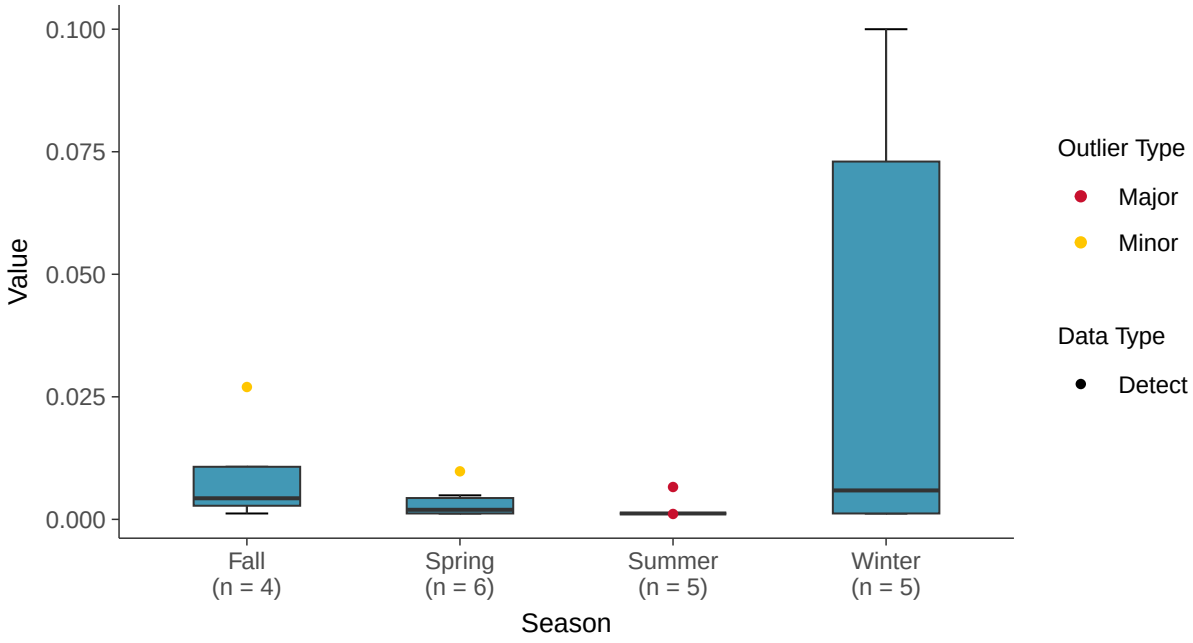
Boxplot

Zinc, MW-30 (mg/L)



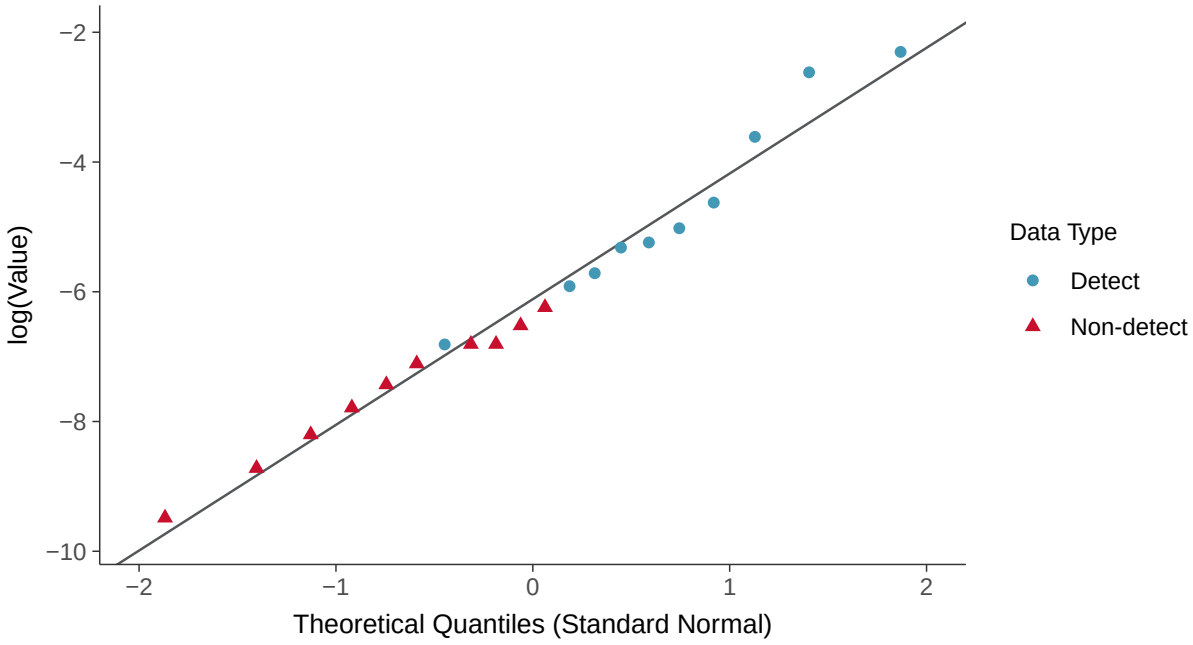
Boxplot by Season

Zinc, MW-30 (mg/L)



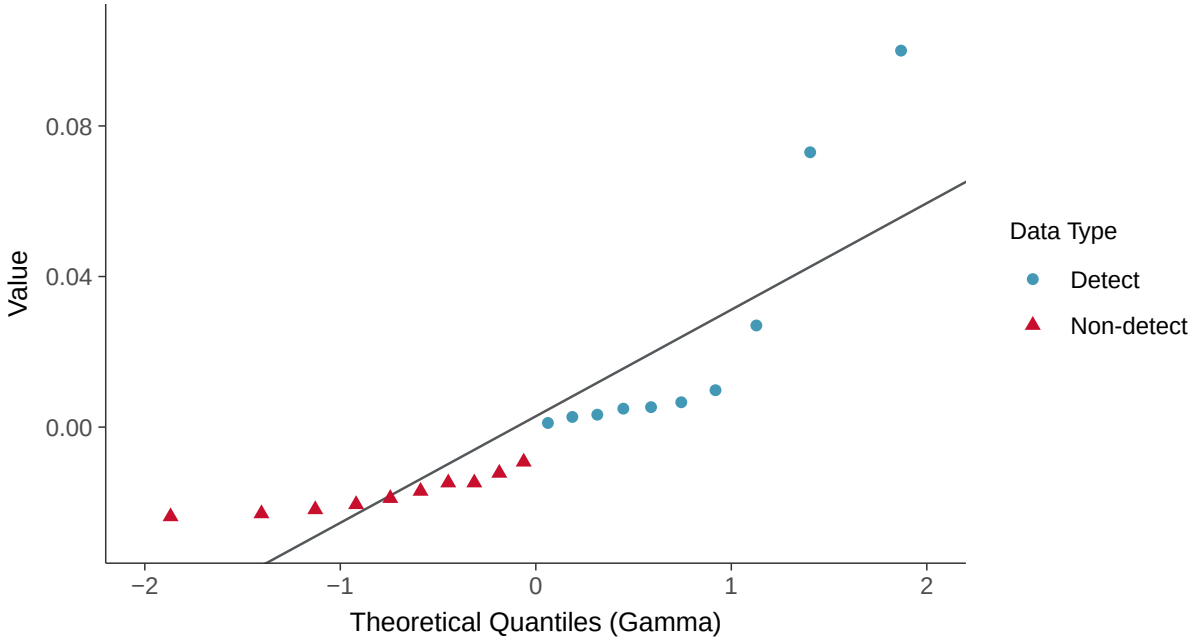
Lognormal Q-Q plot using ROS Imputed Estimates

Zinc, MW-30 (mg/L)



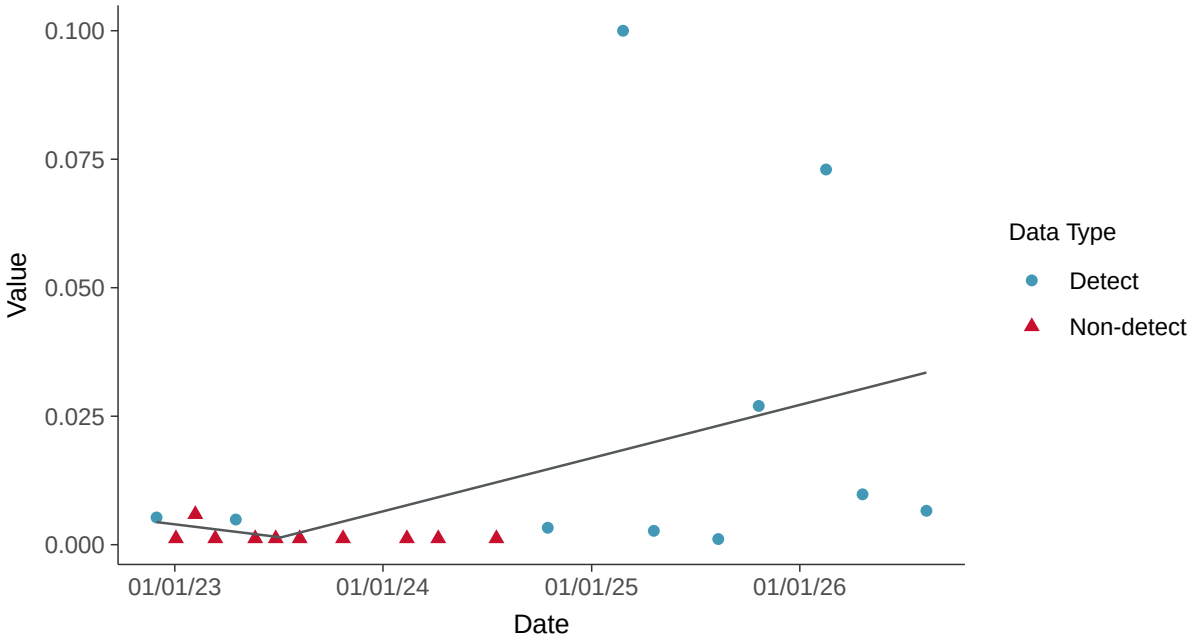
Gamma Q-Q plot using ROS Imputed Estimates

Zinc, MW-30 (mg/L)



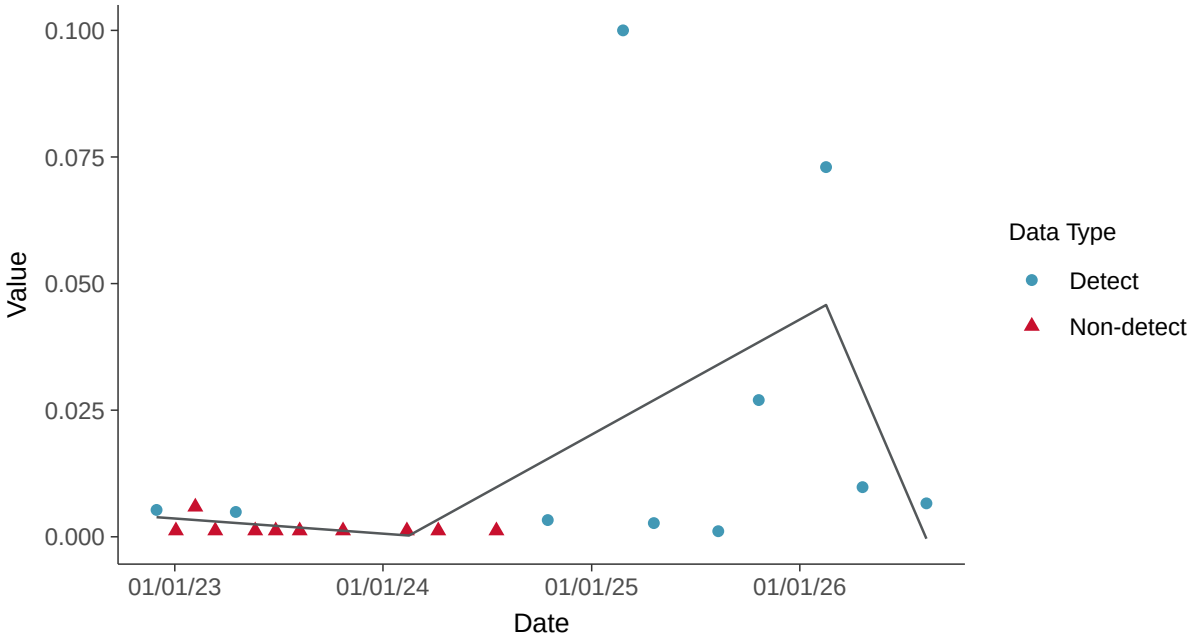
Trend Regression: Piecewise Linear-Linear

Zinc, MW-30 (mg/L)



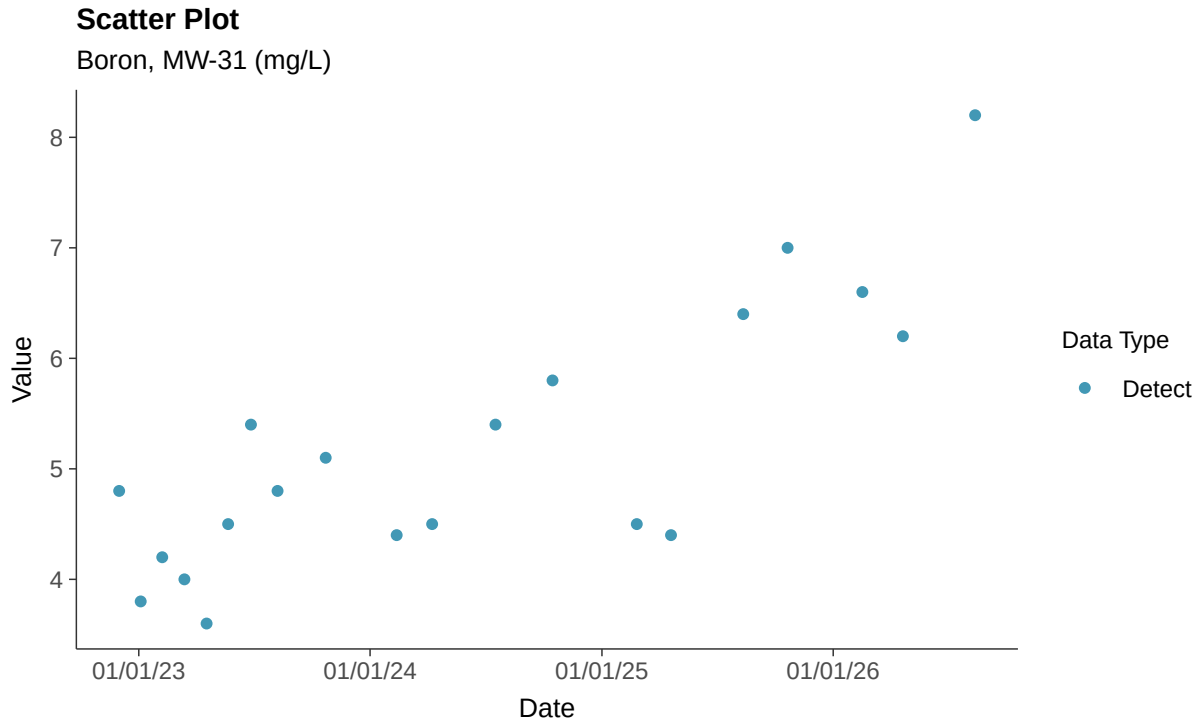
Trend Regression: Piecewise Linear-Linear-Linear

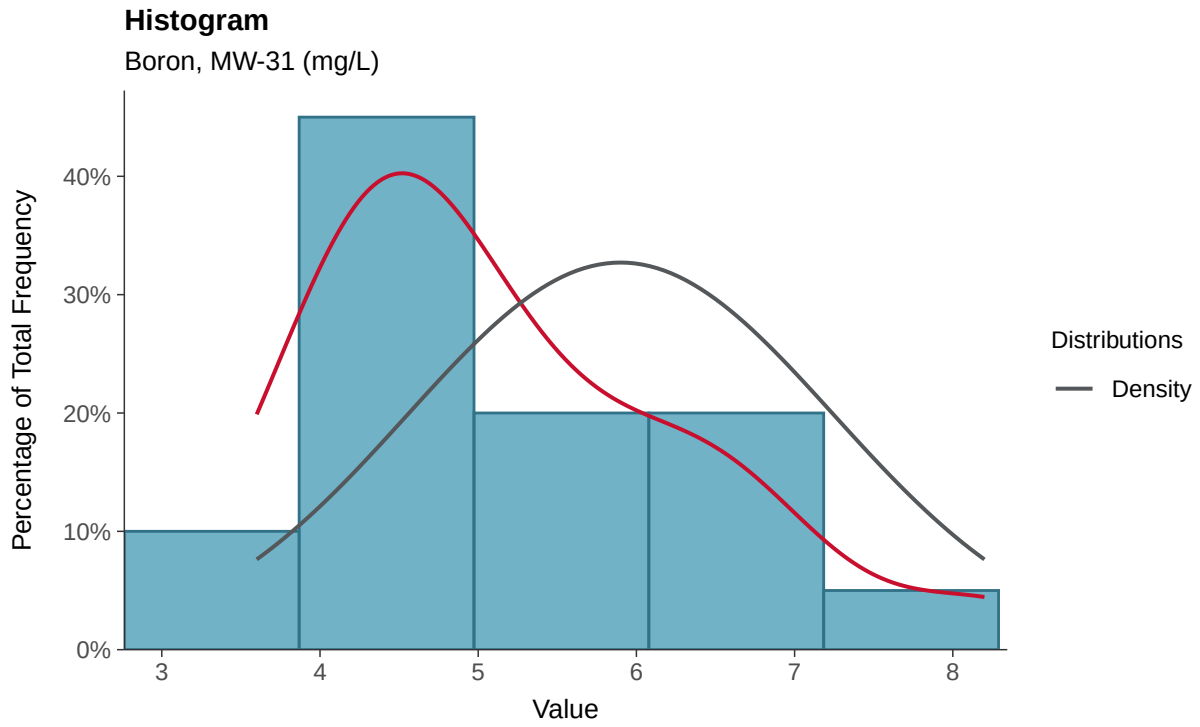
Zinc, MW-30 (mg/L)



Appendix III: Boron, MW-31

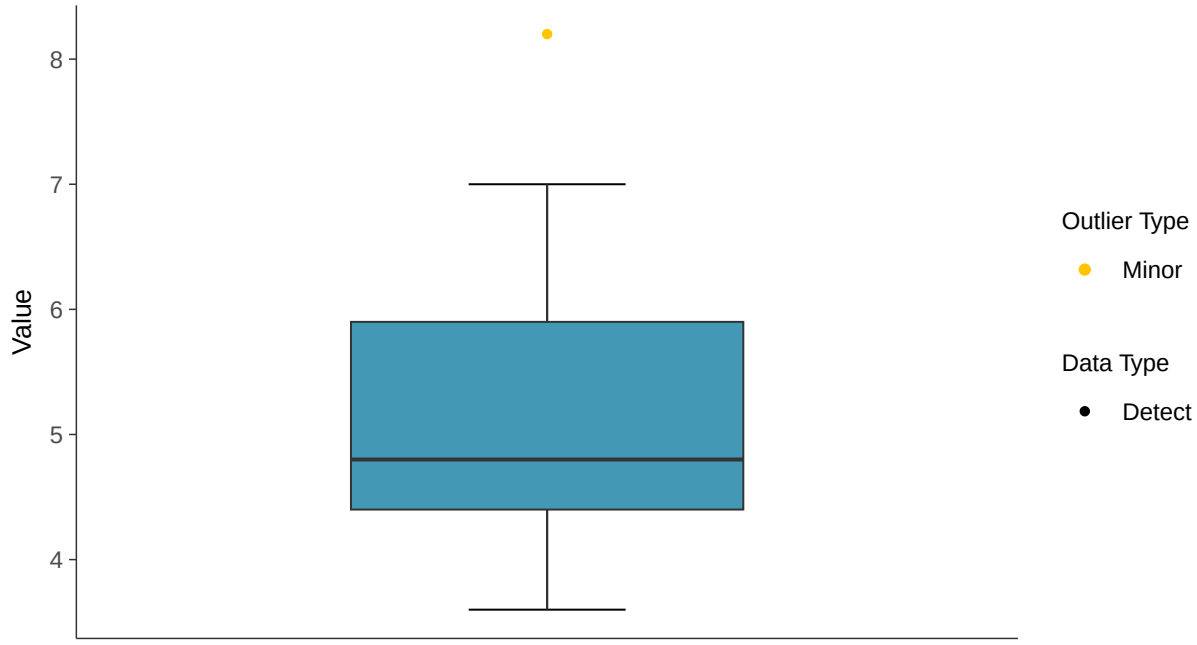
ID: 41_1_3_105





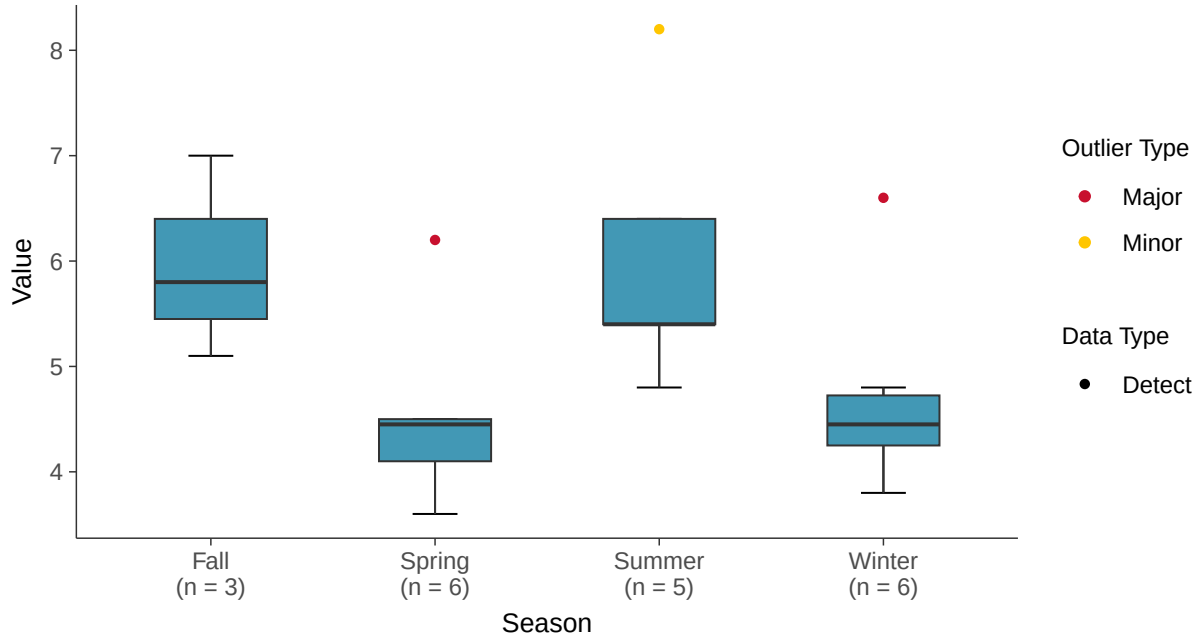
Boxplot

Boron, MW-31 (mg/L)



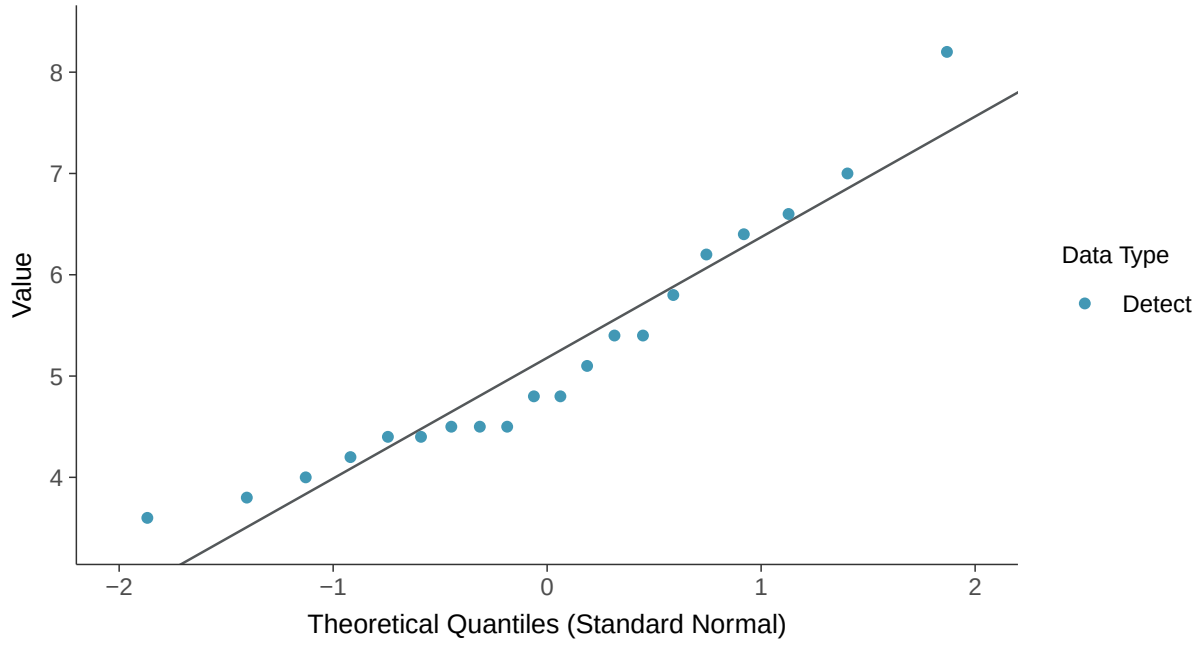
Boxplot by Season

Boron, MW-31 (mg/L)



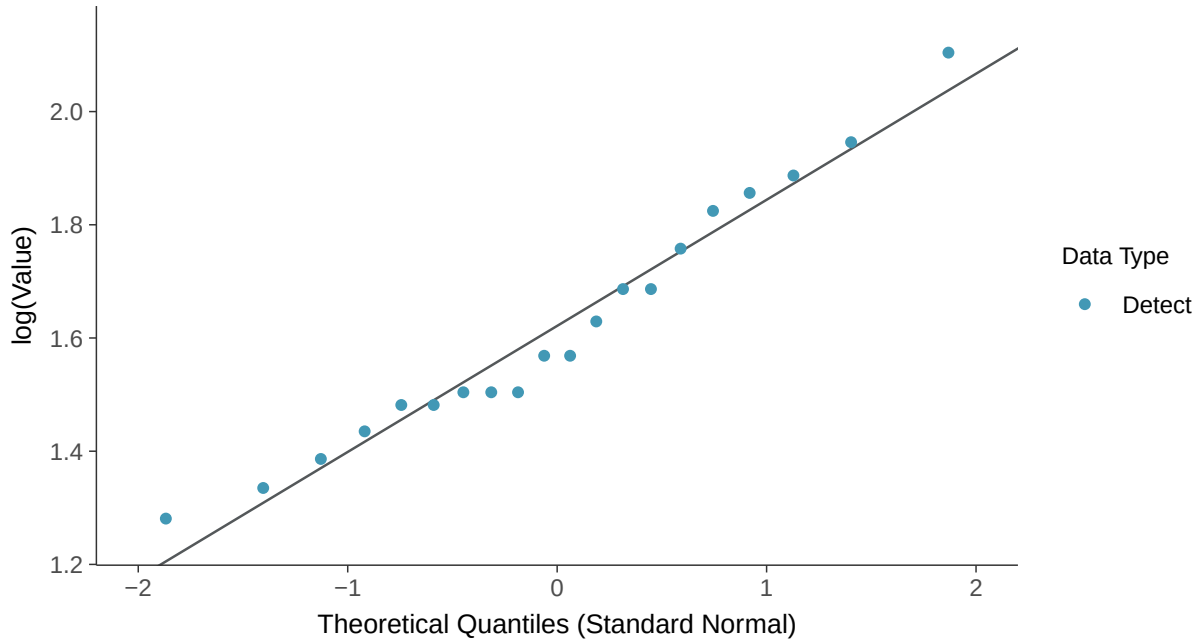
Normal Q-Q plot

Boron, MW-31 (mg/L)



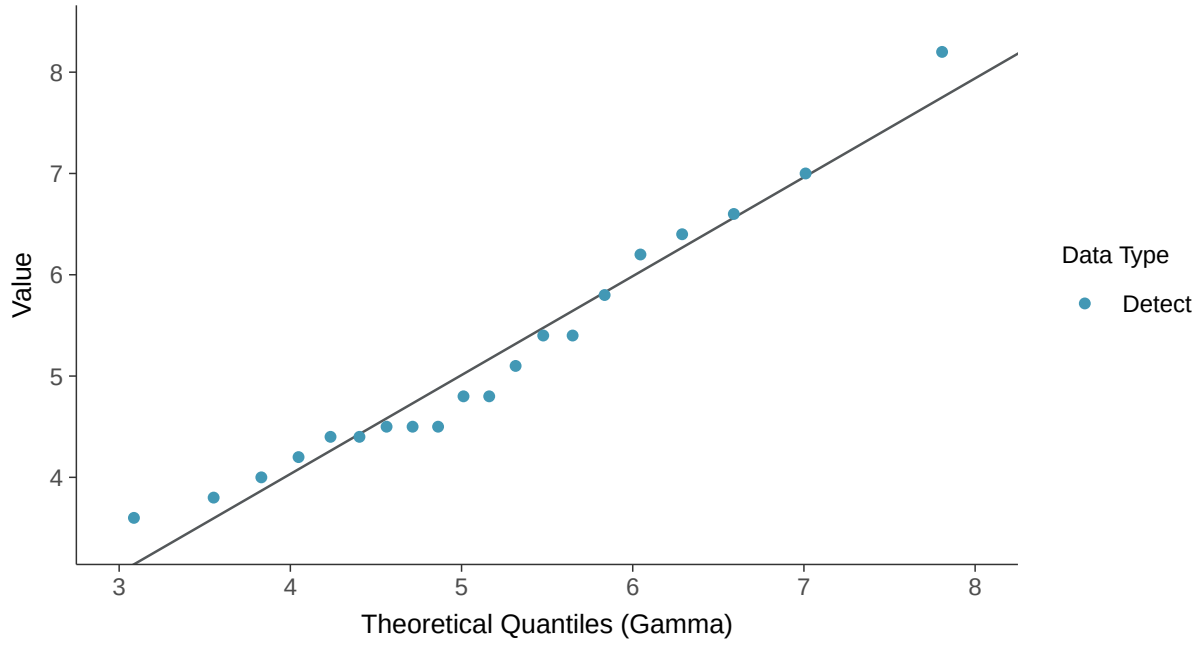
Lognormal Q-Q plot

Boron, MW-31 (mg/L)



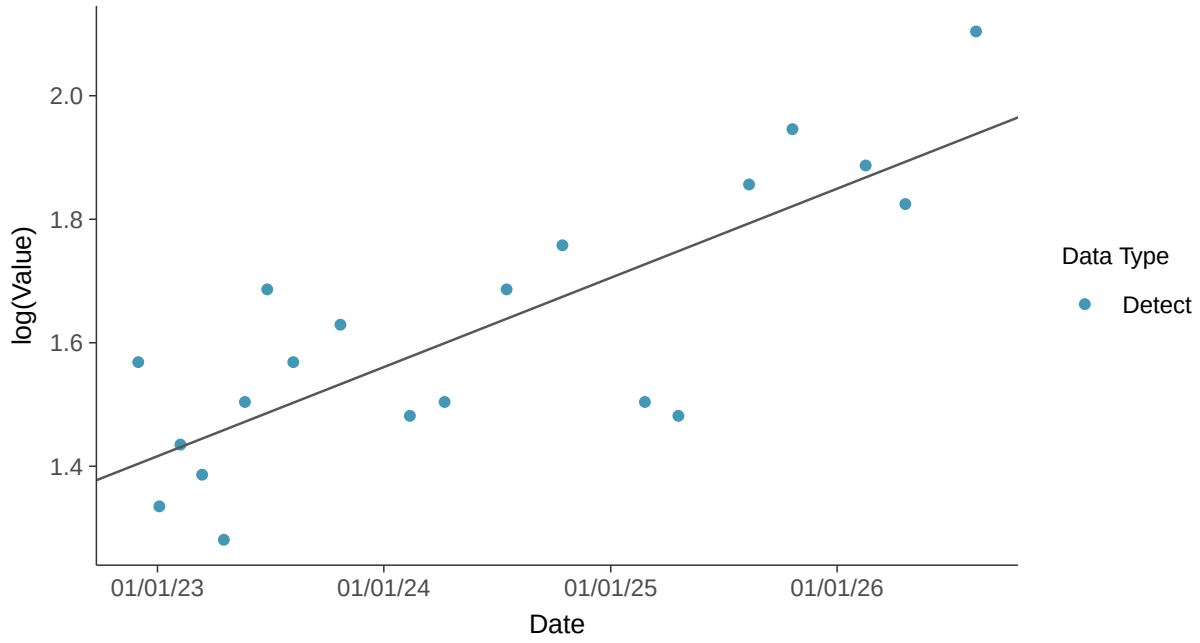
Gamma Q-Q plot

Boron, MW-31 (mg/L)



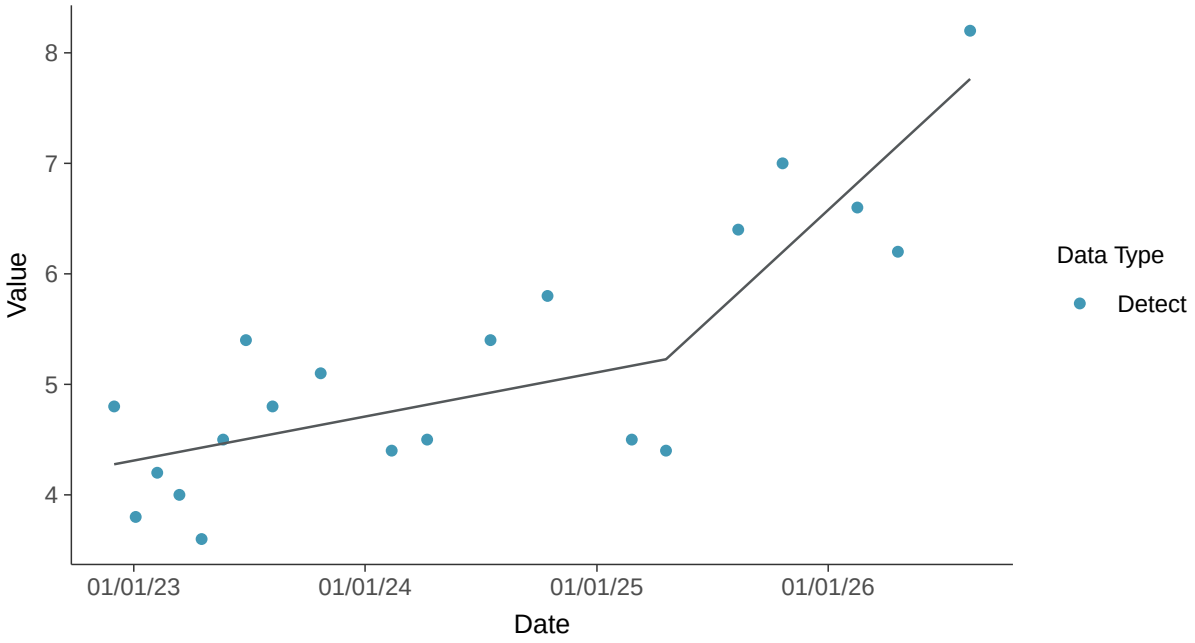
Trend Regression: Lognormal MLE

Boron, MW-31 (mg/L)



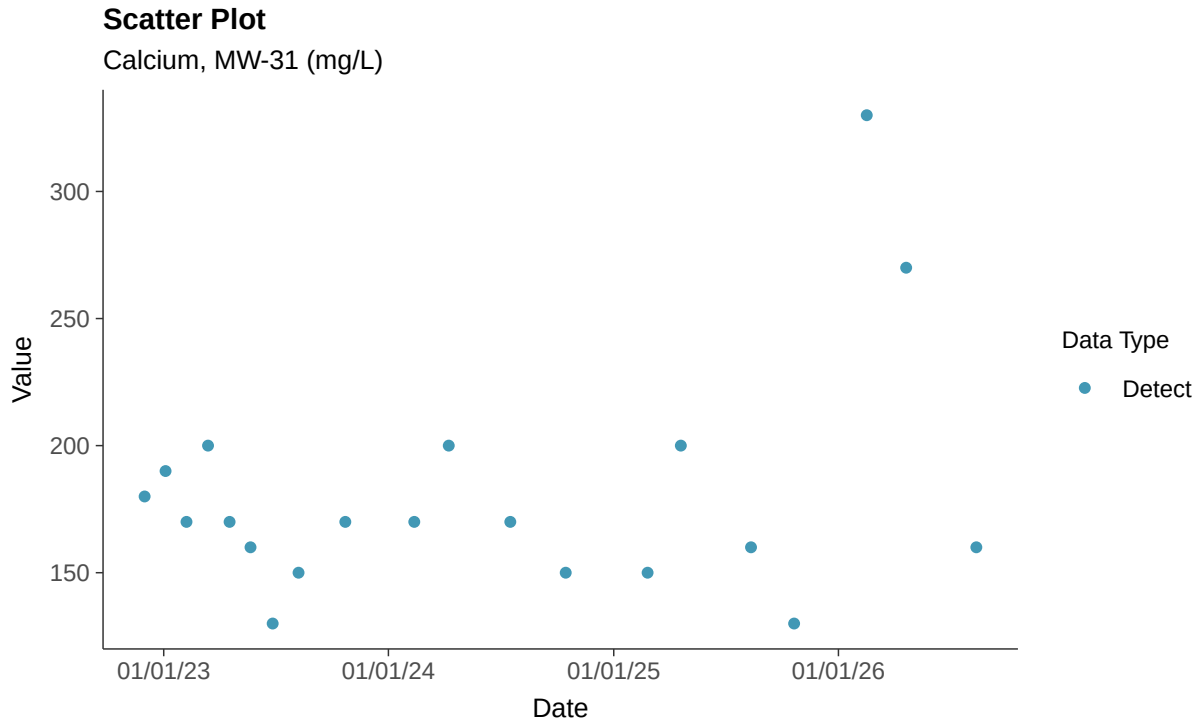
Trend Regression: Piecewise Linear-Linear

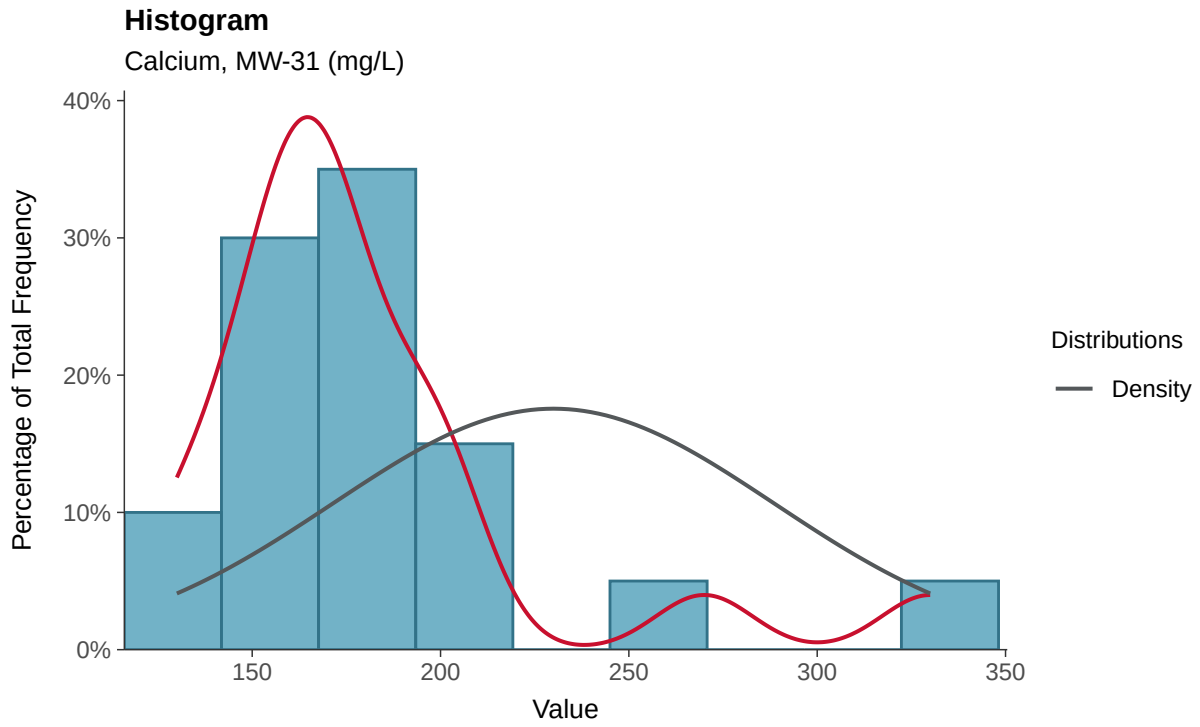
Boron, MW-31 (mg/L)



Appendix III: Calcium, MW-31

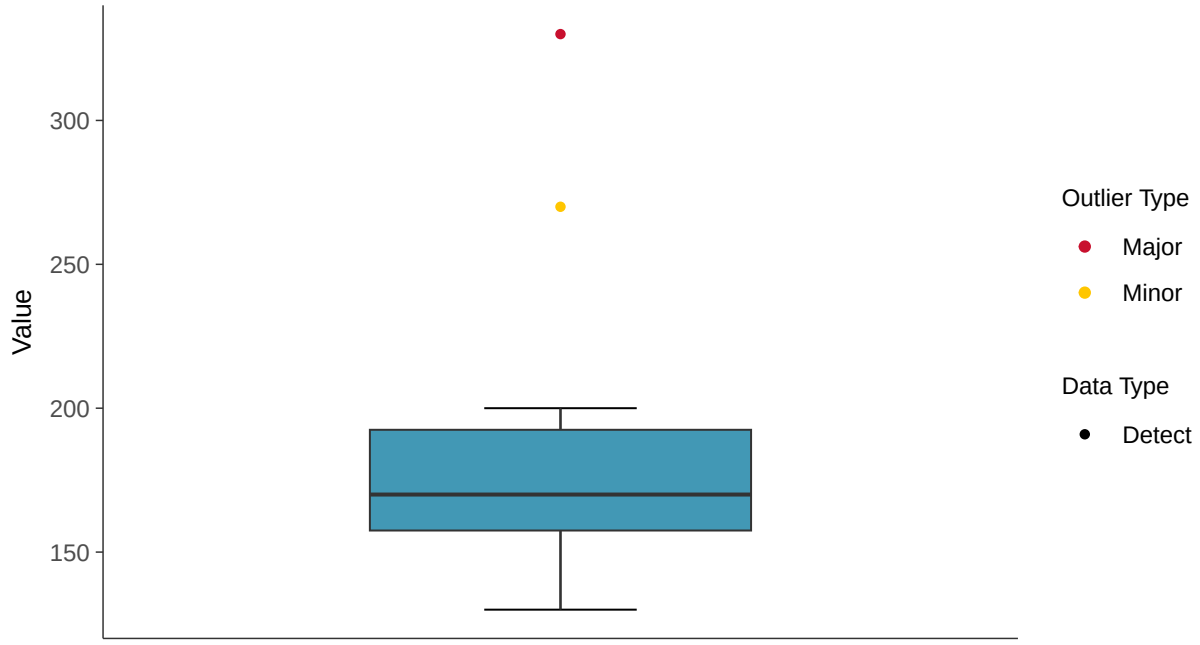
ID: 41_1_3_107





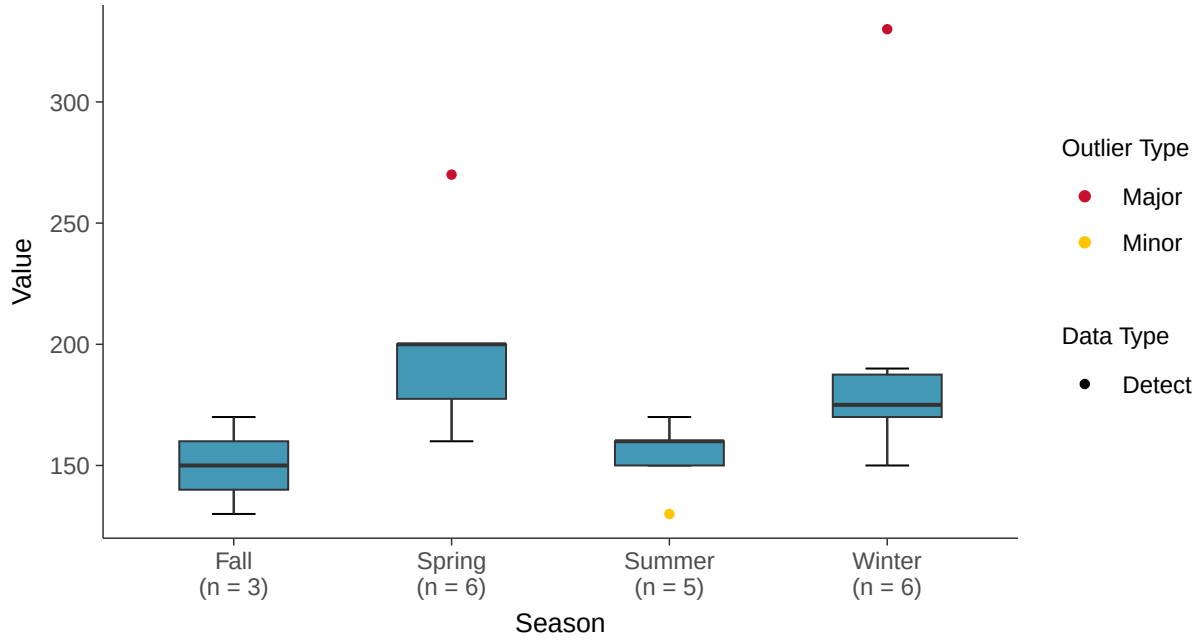
Boxplot

Calcium, MW-31 (mg/L)



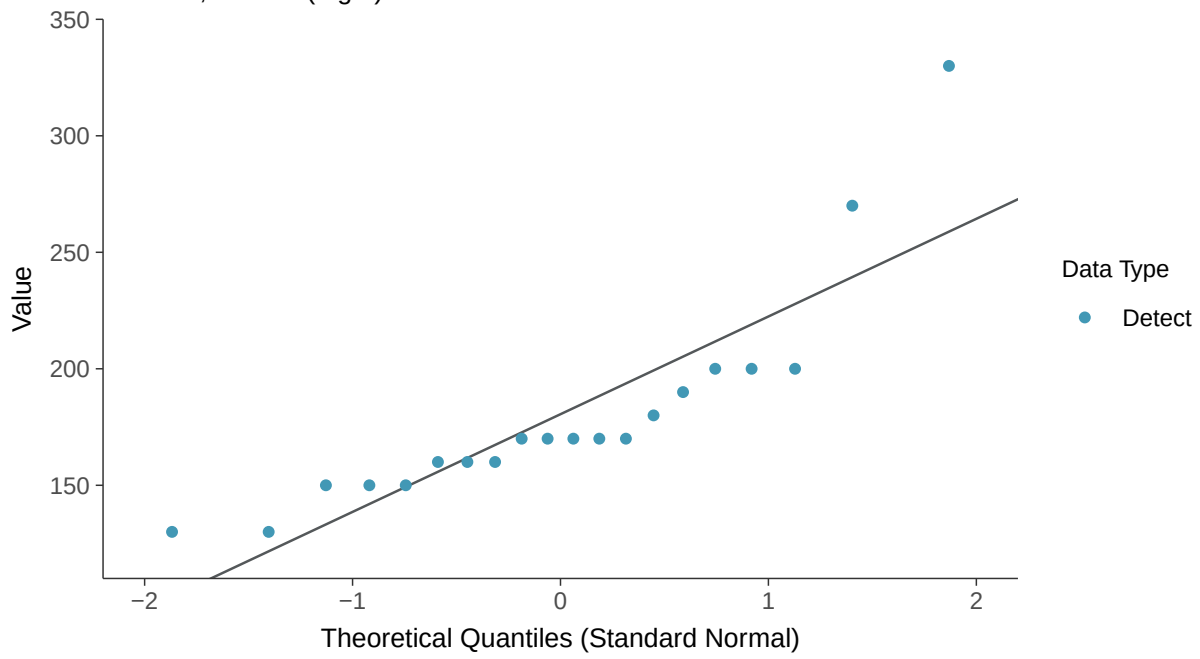
Boxplot by Season

Calcium, MW-31 (mg/L)



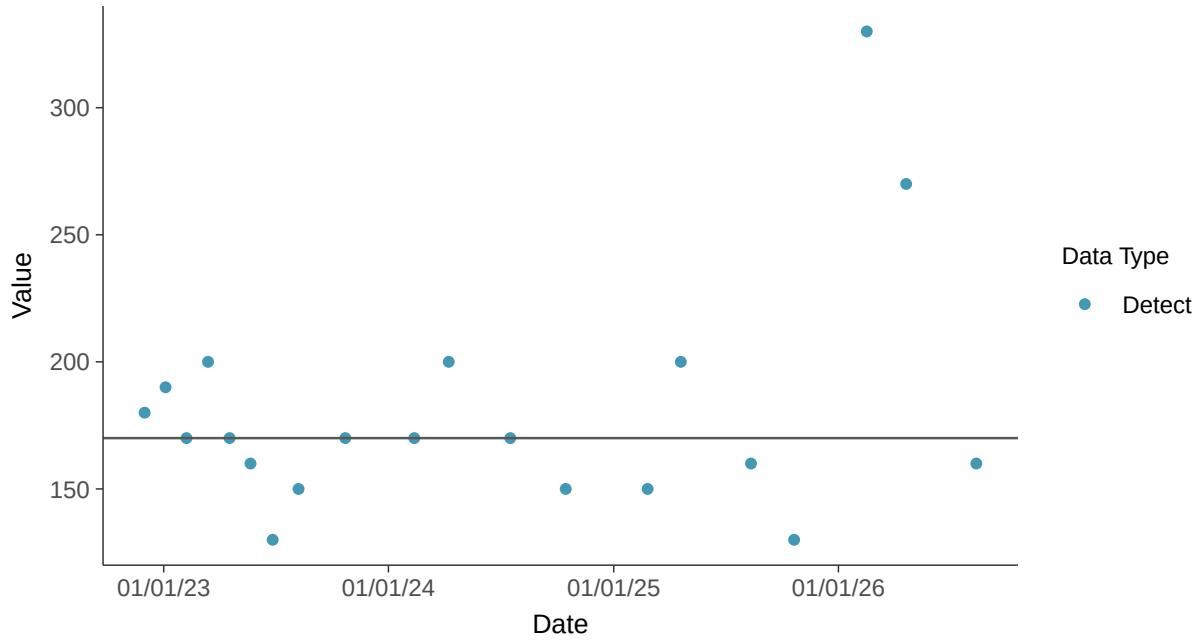
Normal Q-Q plot

Calcium, MW-31 (mg/L)



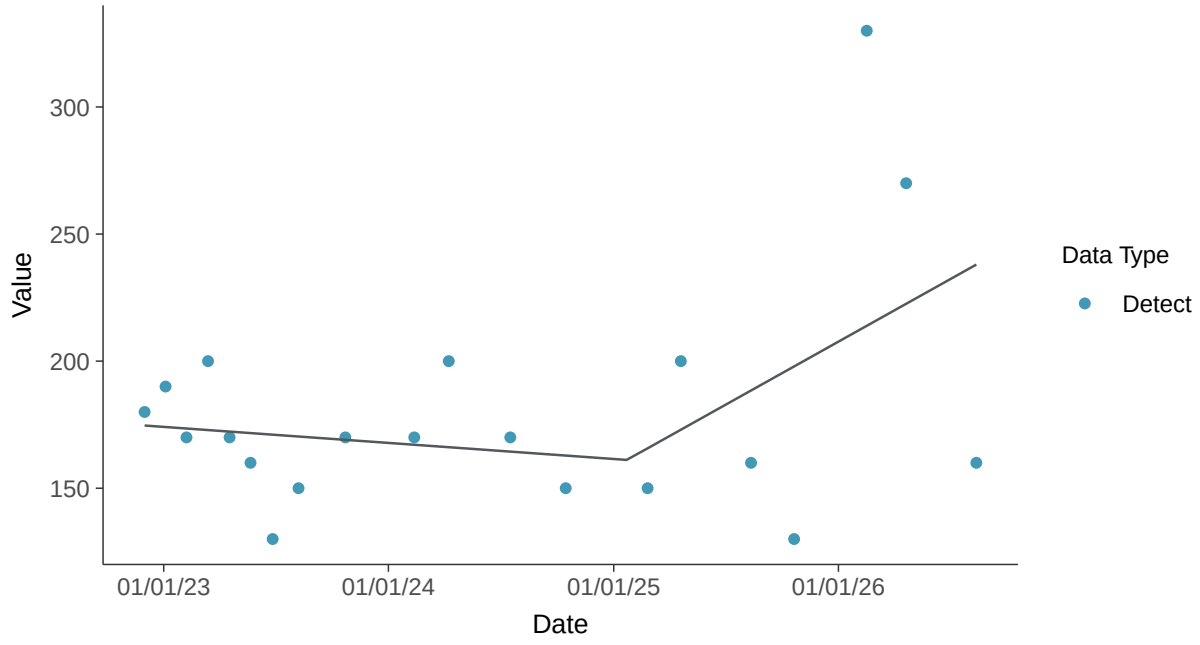
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Calcium, MW-31 (mg/L)



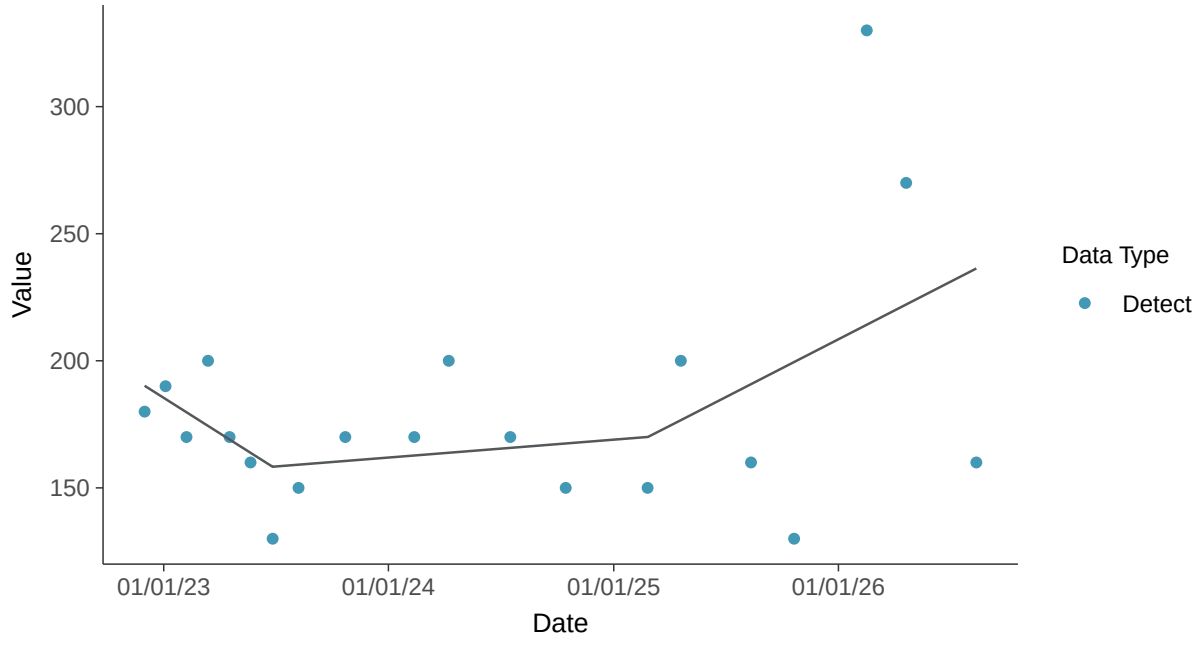
Trend Regression: Piecewise Linear-Linear

Calcium, MW-31 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Calcium, MW-31 (mg/L)

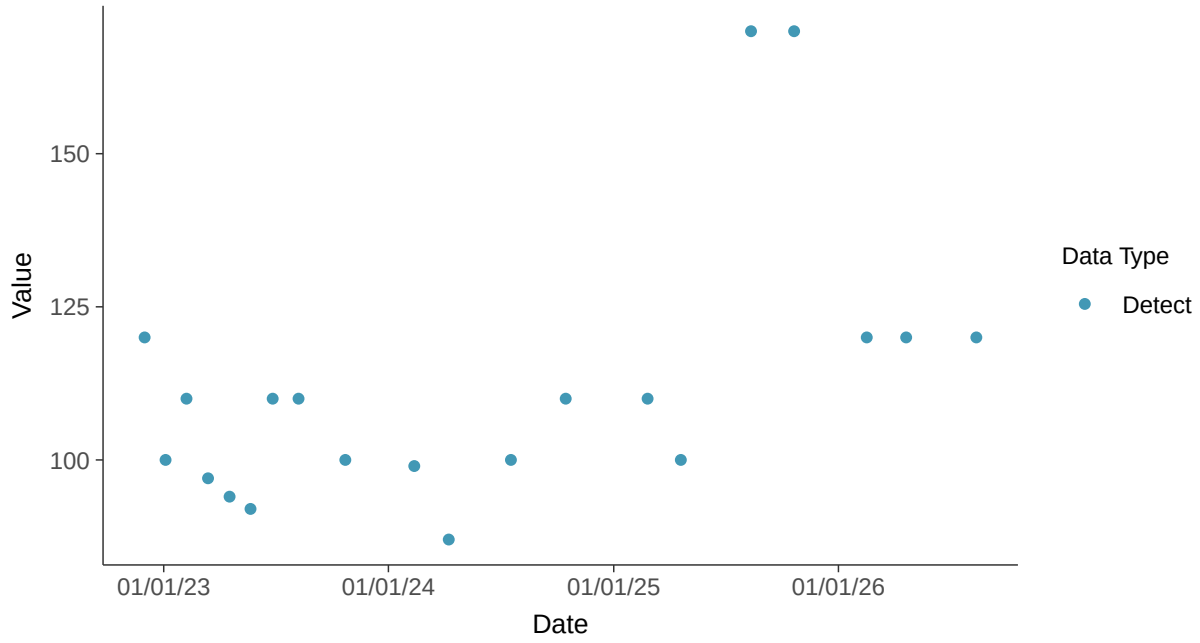


Appendix III: Chloride (as Cl), MW-31

ID: 41_1_3_108

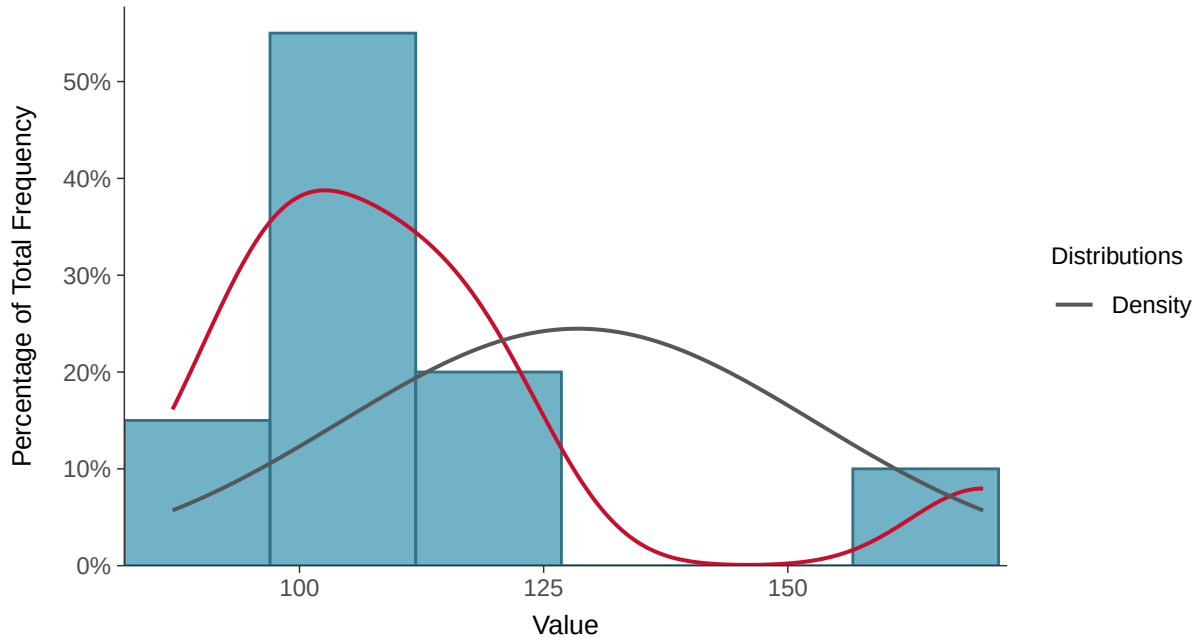
Scatter Plot

Chloride (as Cl), MW-31 (mg/L)



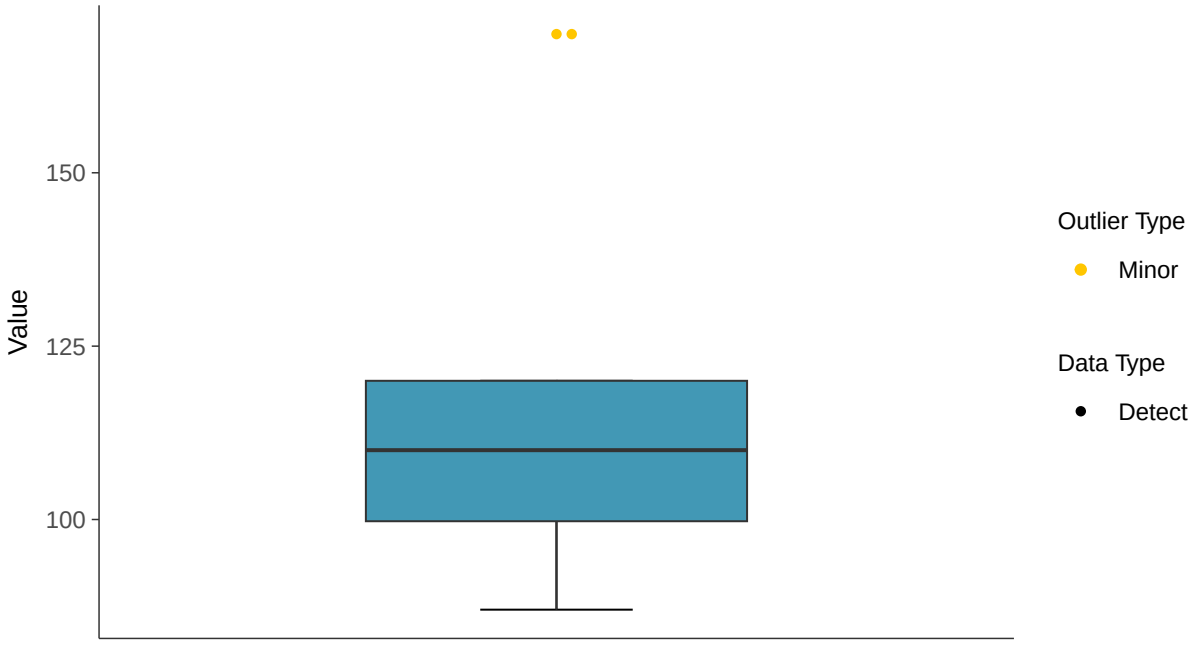
Histogram

Chloride (as Cl), MW-31 (mg/L)



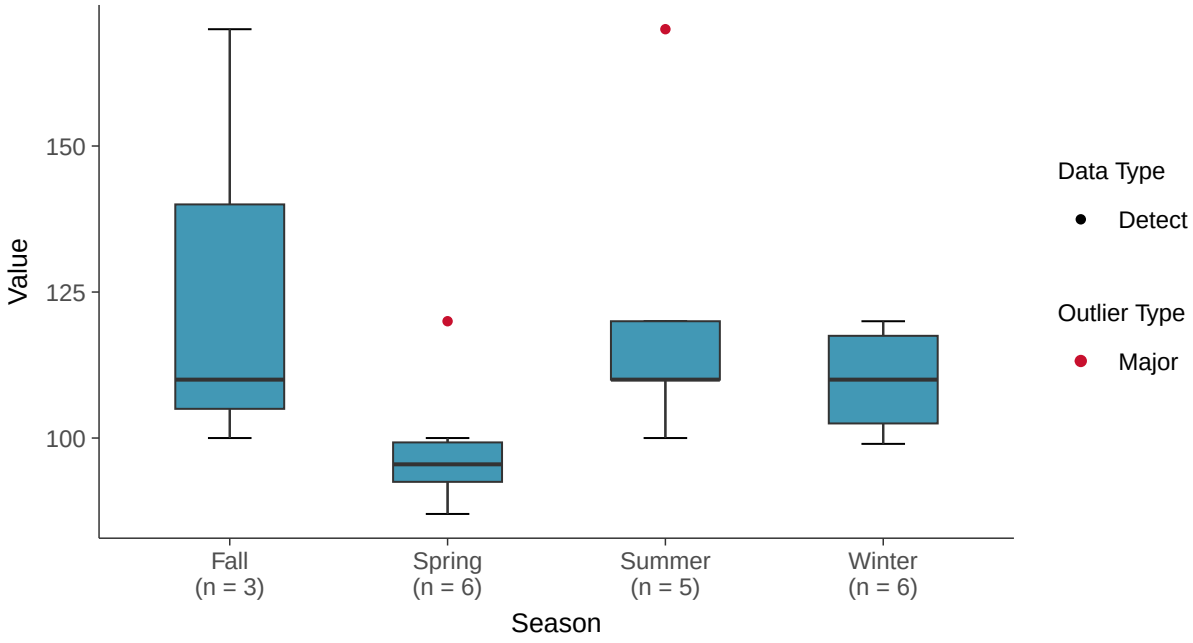
Boxplot

Chloride (as Cl), MW-31 (mg/L)



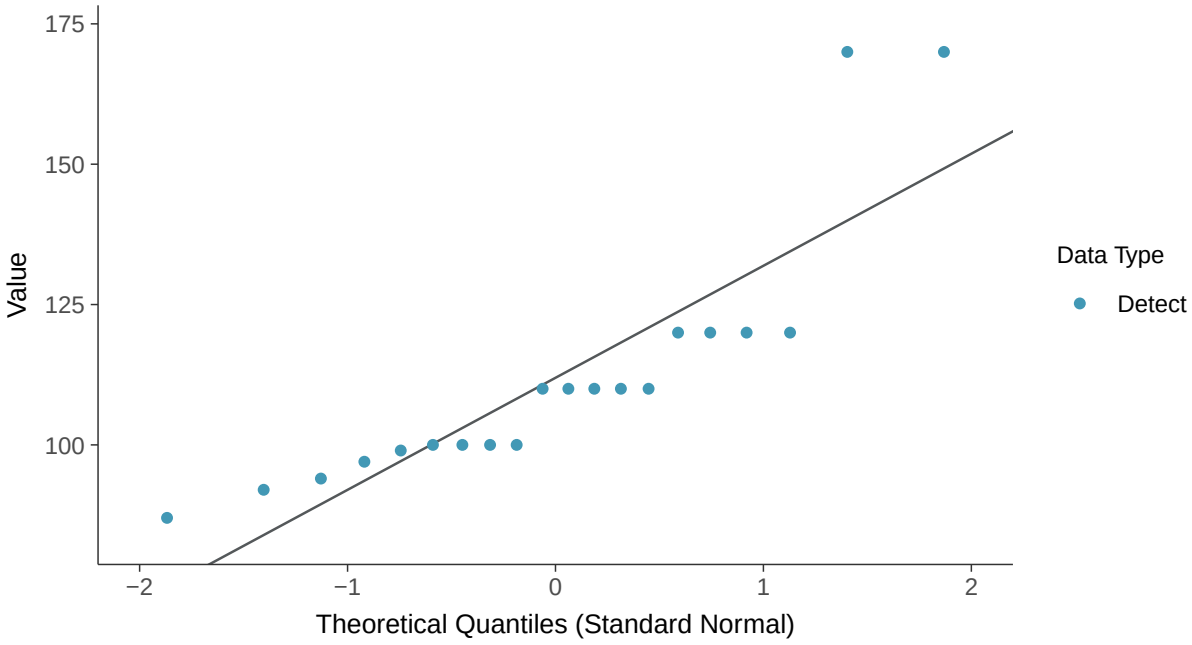
Boxplot by Season

Chloride (as Cl), MW-31 (mg/L)



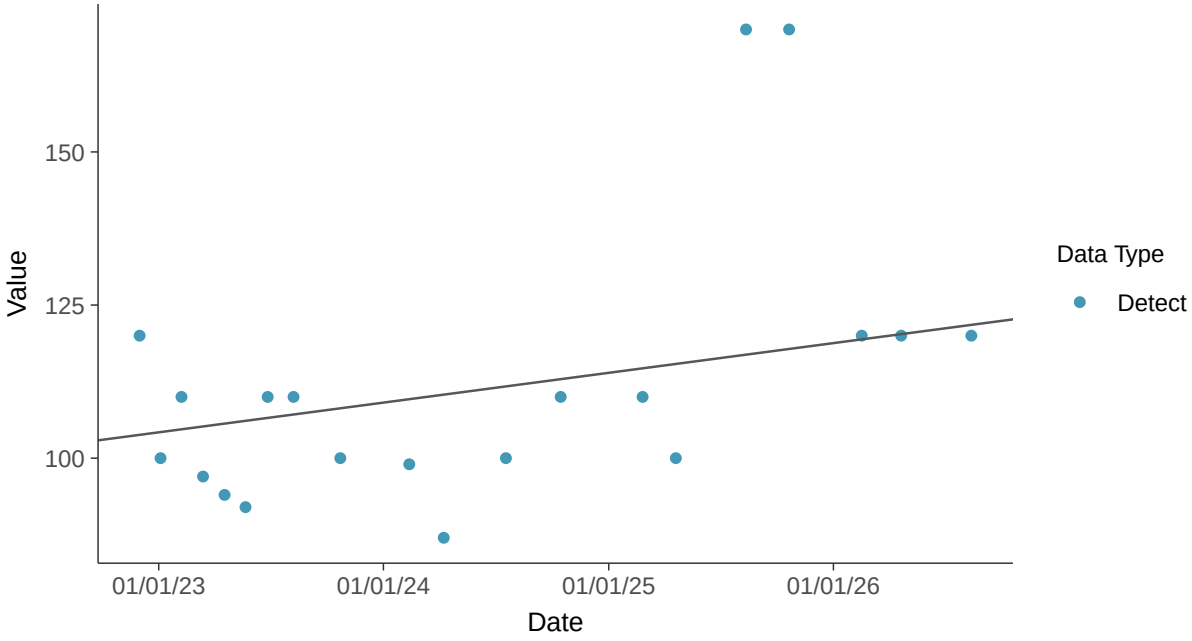
Normal Q-Q plot

Chloride (as Cl), MW-31 (mg/L)



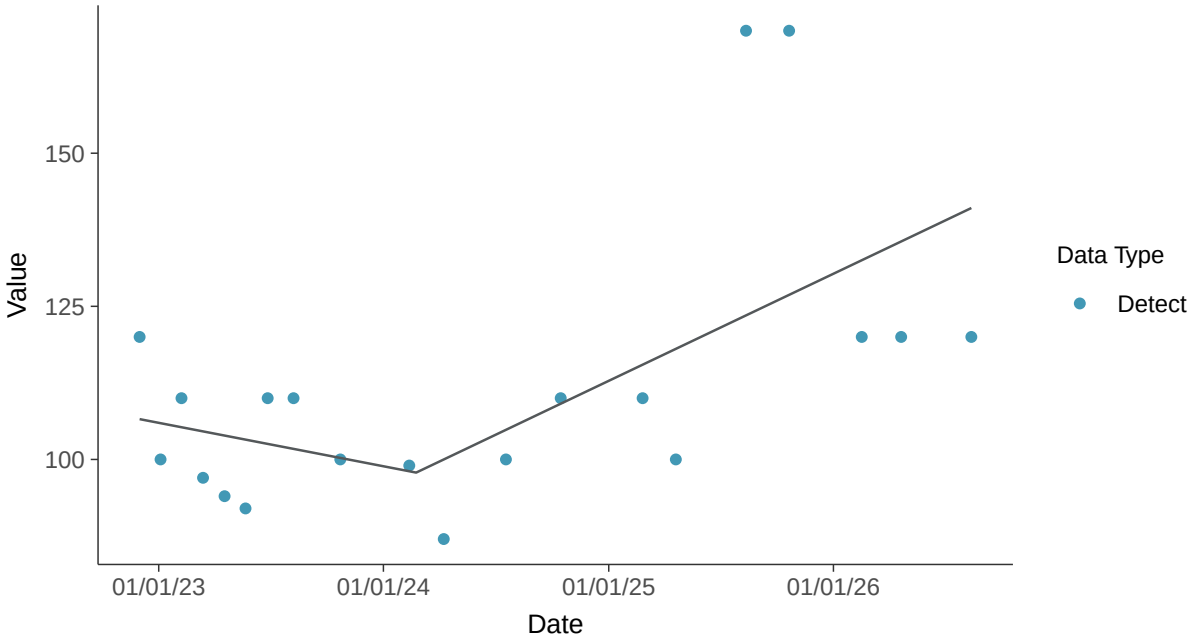
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Chloride (as Cl), MW-31 (mg/L)



Trend Regression: Piecewise Linear-Linear

Chloride (as Cl), MW-31 (mg/L)

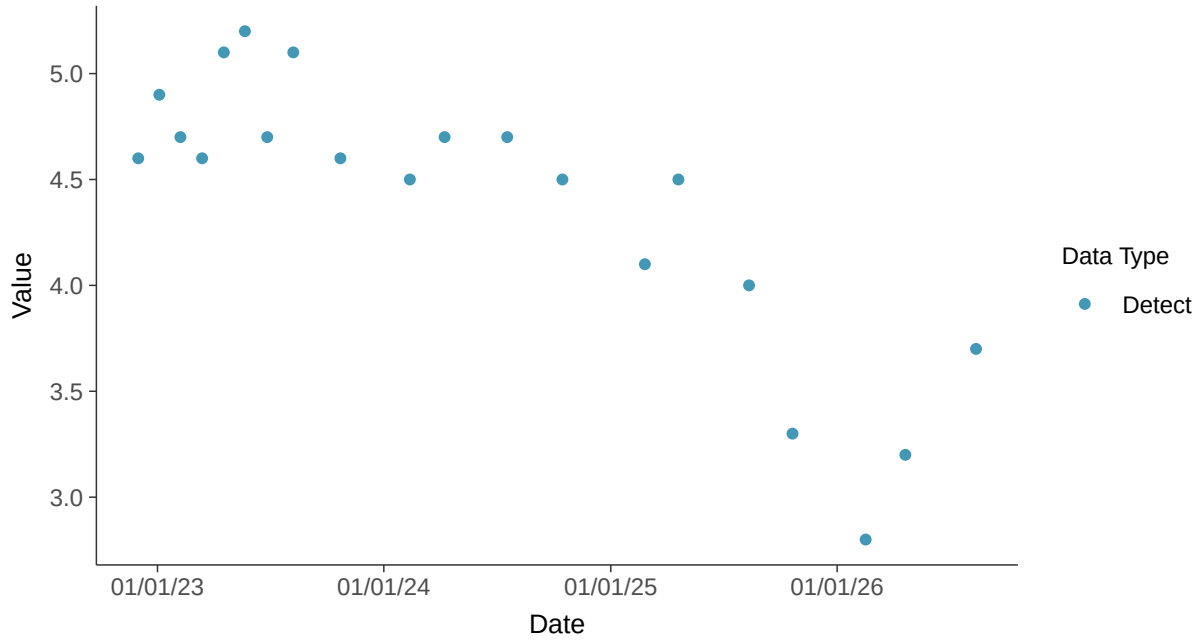


Appendix III: Fluoride, MW-31

ID: 41_1_3_112

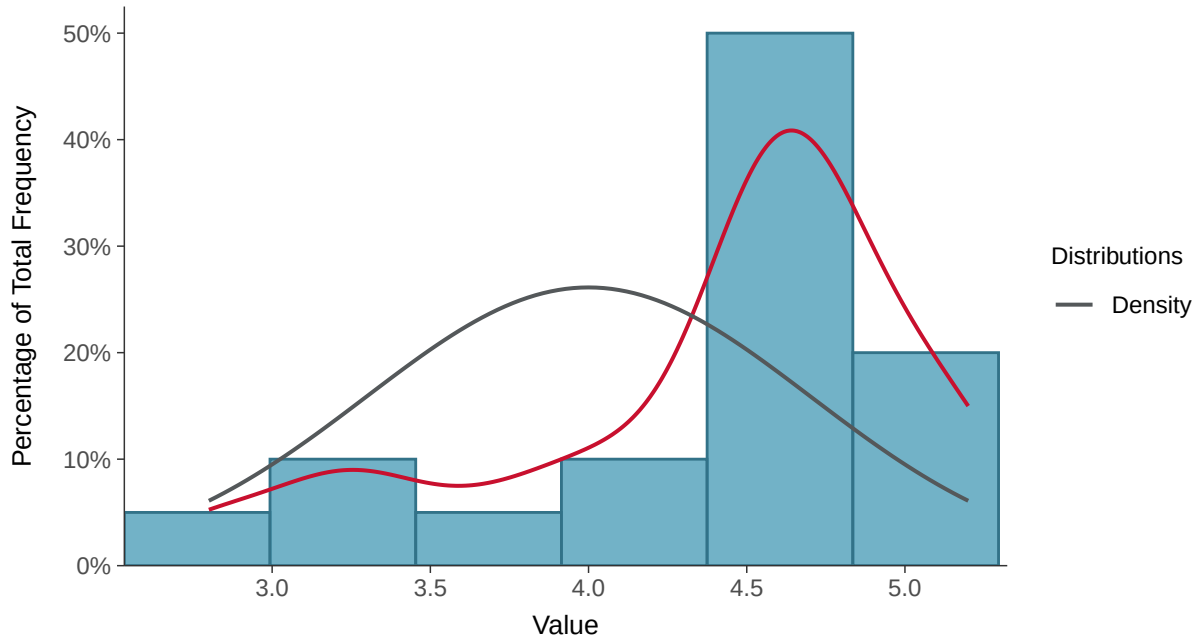
Scatter Plot

Fluoride, MW-31 (mg/L)



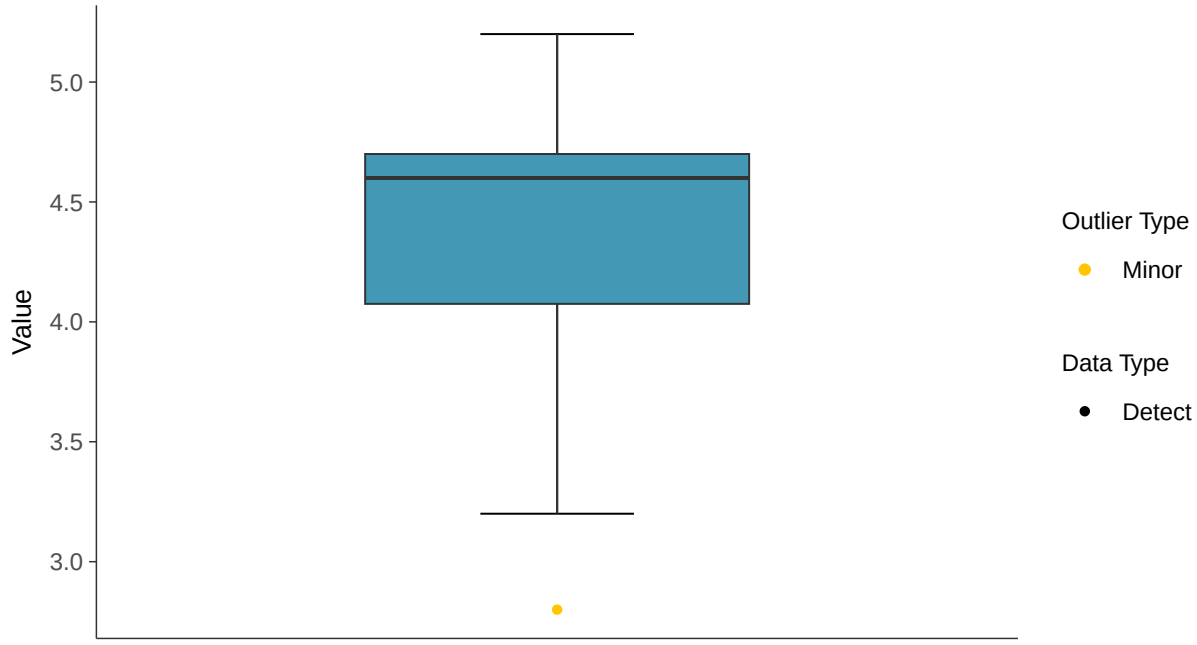
Histogram

Fluoride, MW-31 (mg/L)



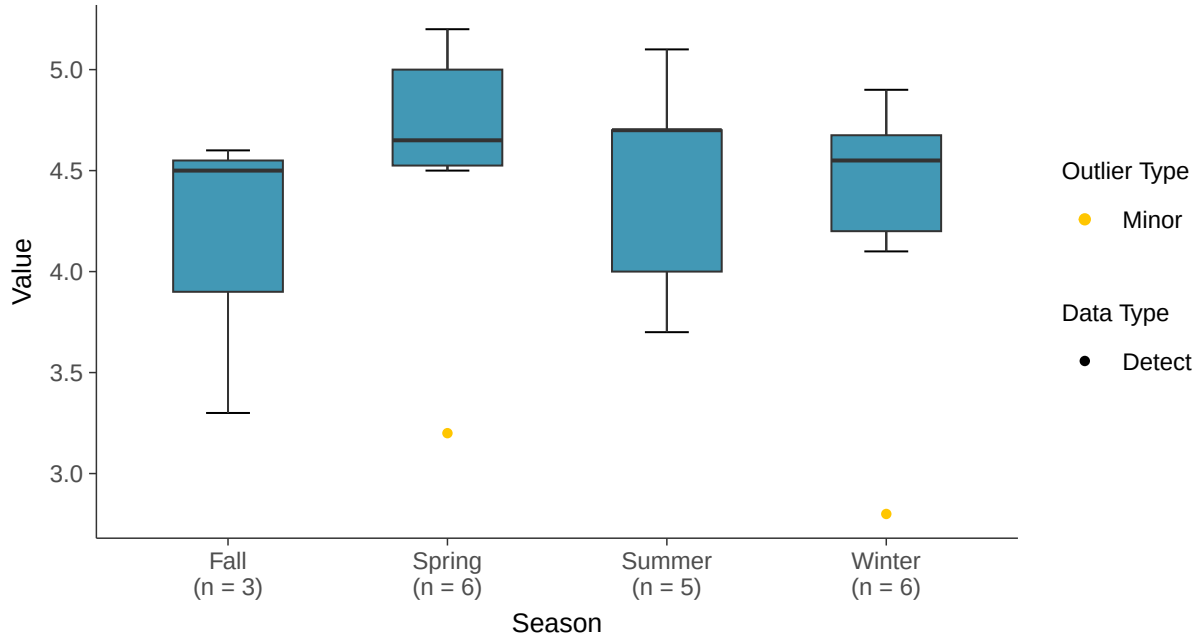
Boxplot

Fluoride, MW-31 (mg/L)



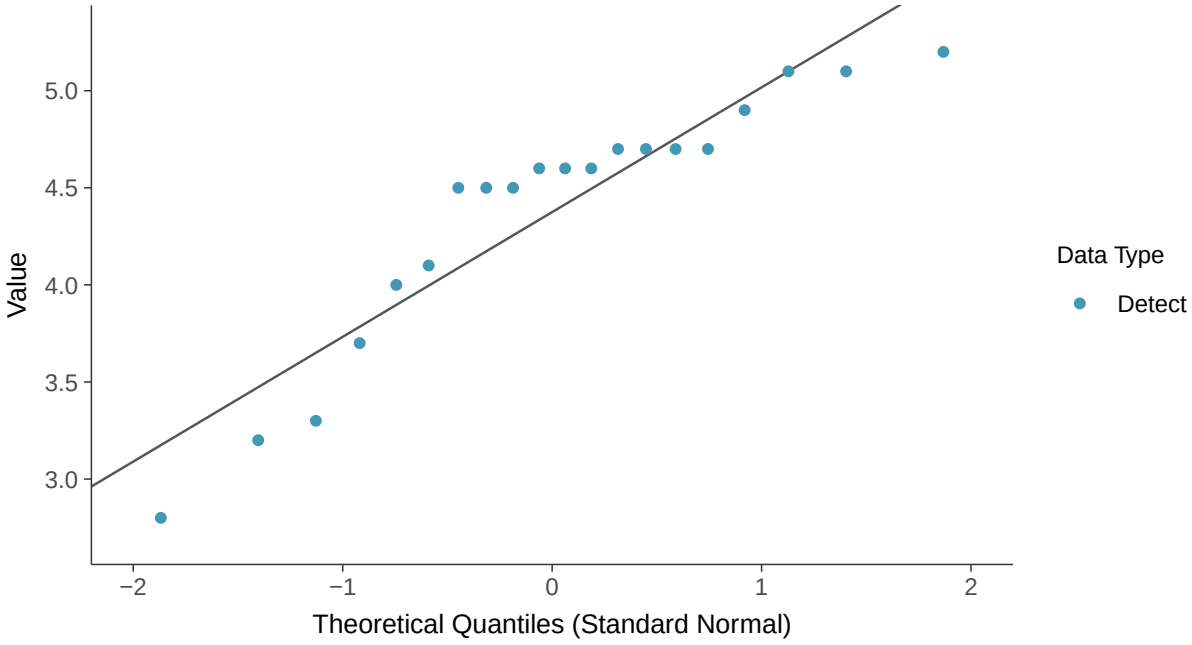
Boxplot by Season

Fluoride, MW-31 (mg/L)



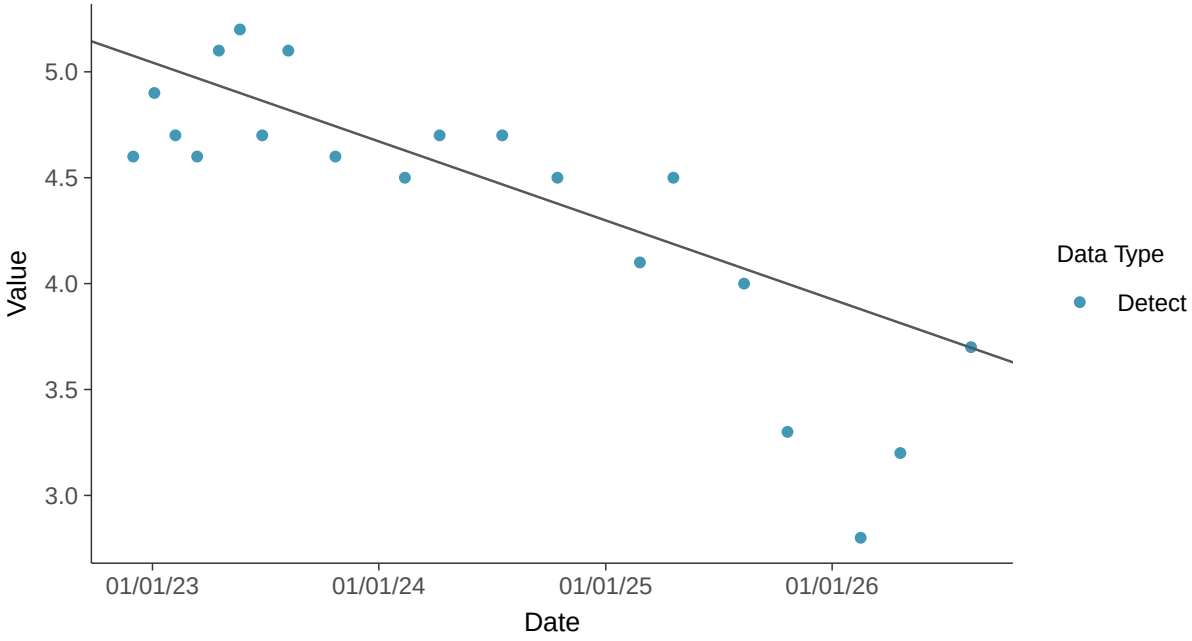
Normal Q-Q plot

Fluoride, MW-31 (mg/L)



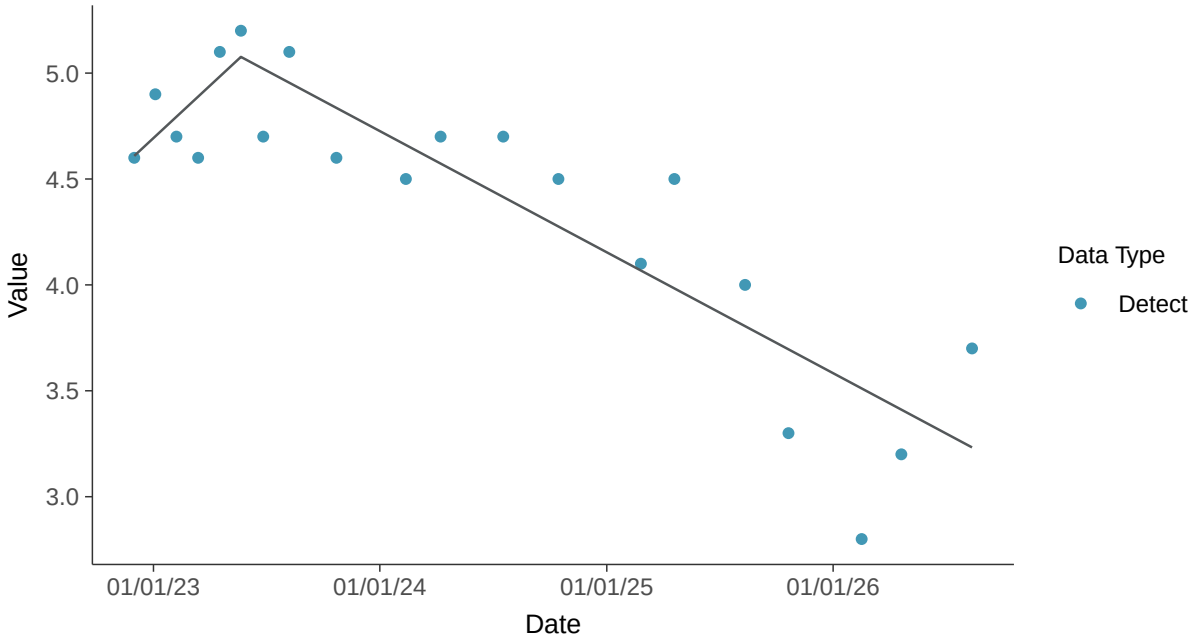
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Fluoride, MW-31 (mg/L)



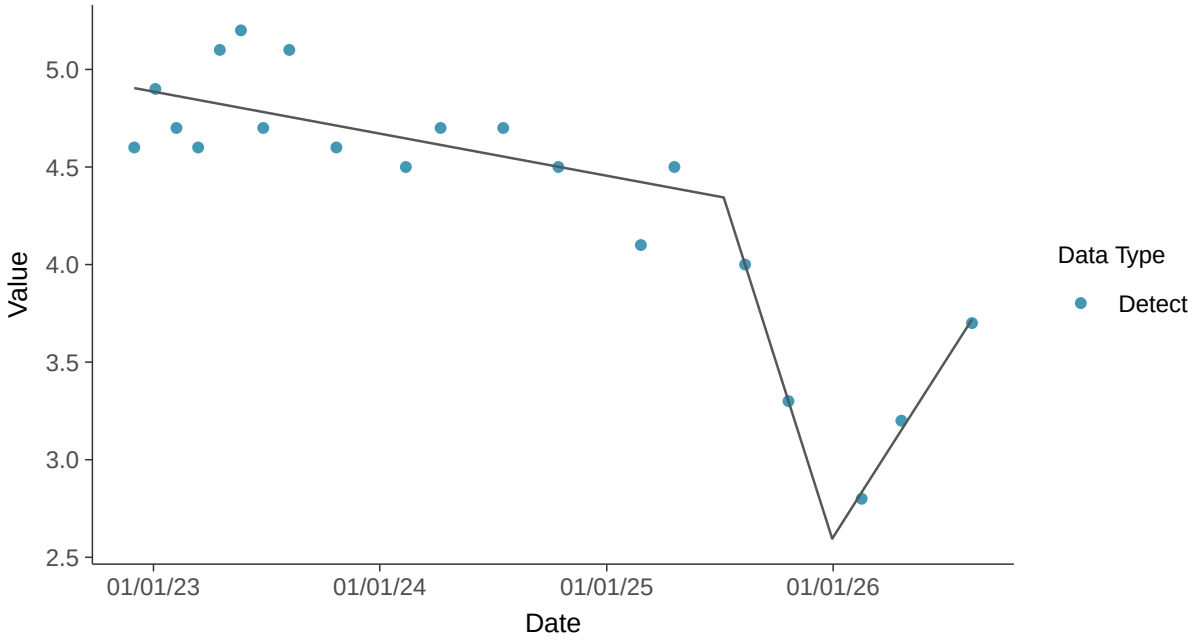
Trend Regression: Piecewise Linear-Linear

Fluoride, MW-31 (mg/L)



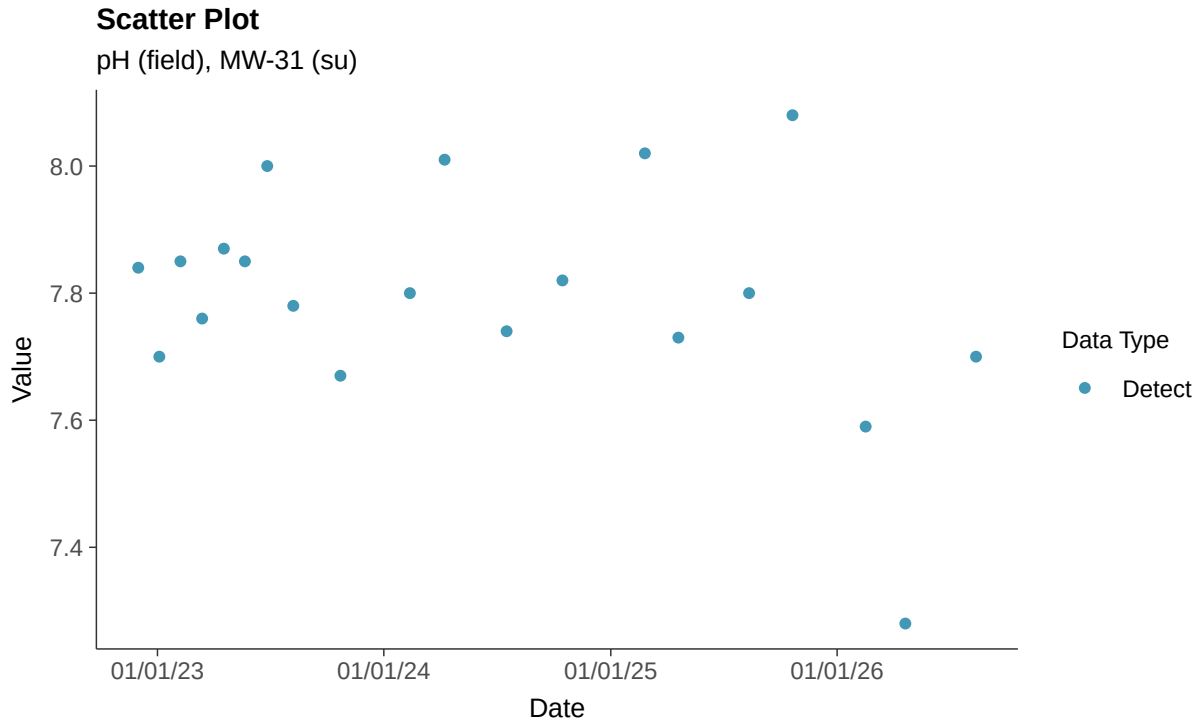
Trend Regression: Piecewise Linear-Linear-Linear

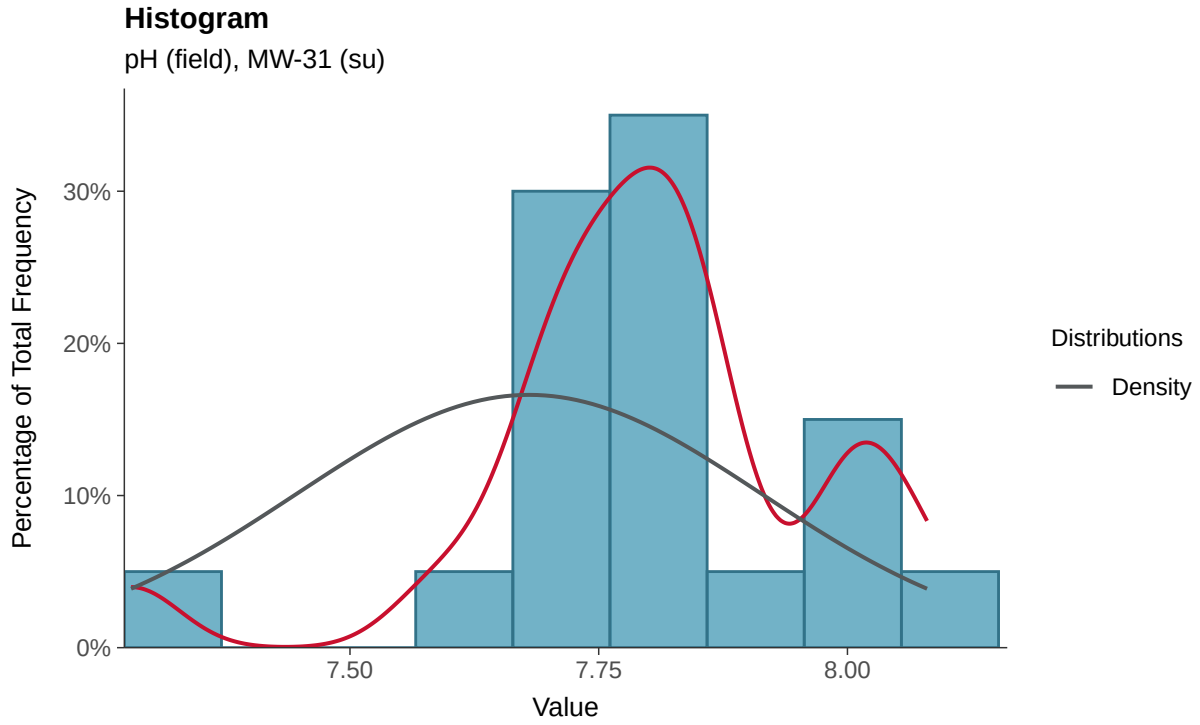
Fluoride, MW-31 (mg/L)



Appendix III: pH (field), MW-31

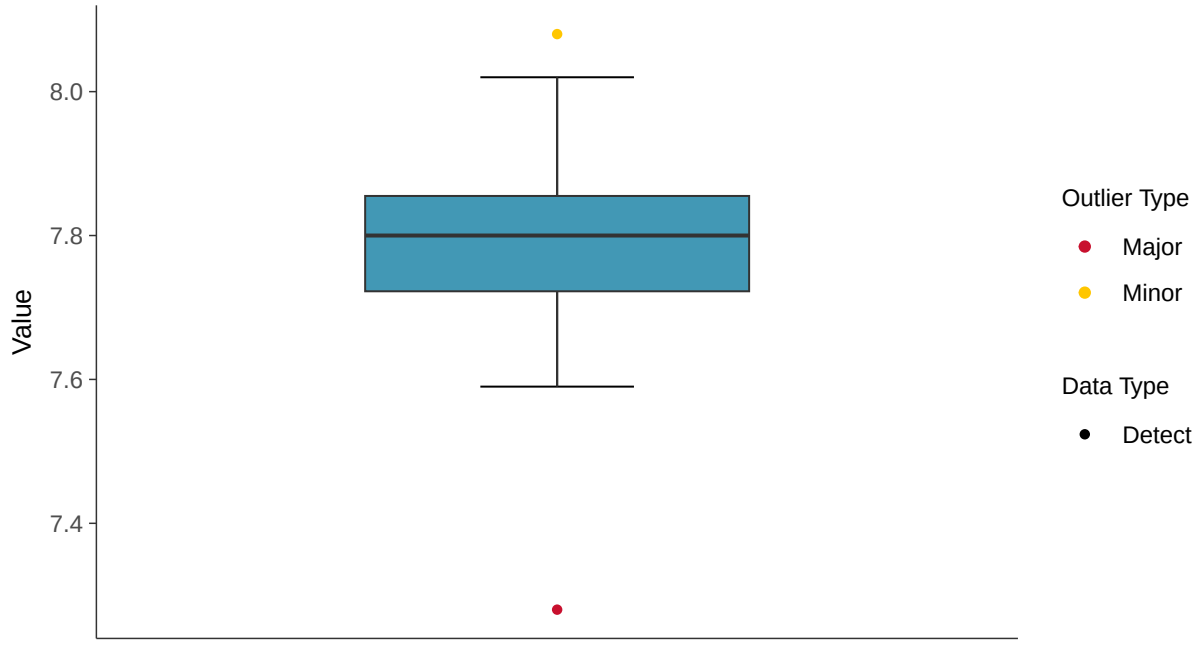
ID: 41_1_3_120





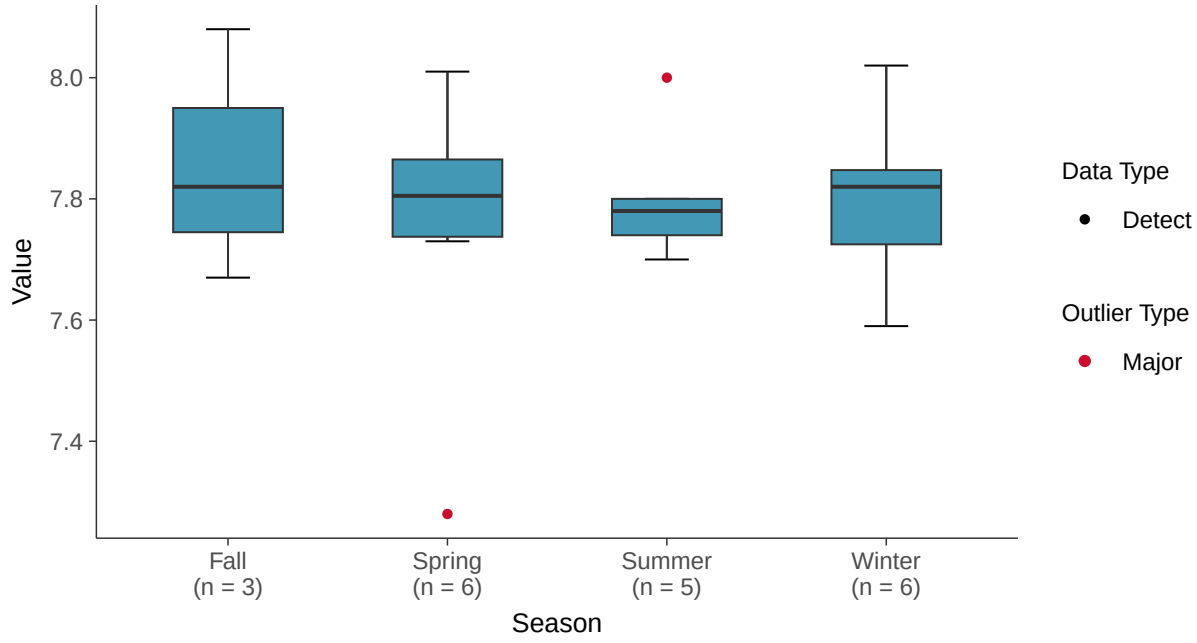
Boxplot

pH (field), MW-31 (su)



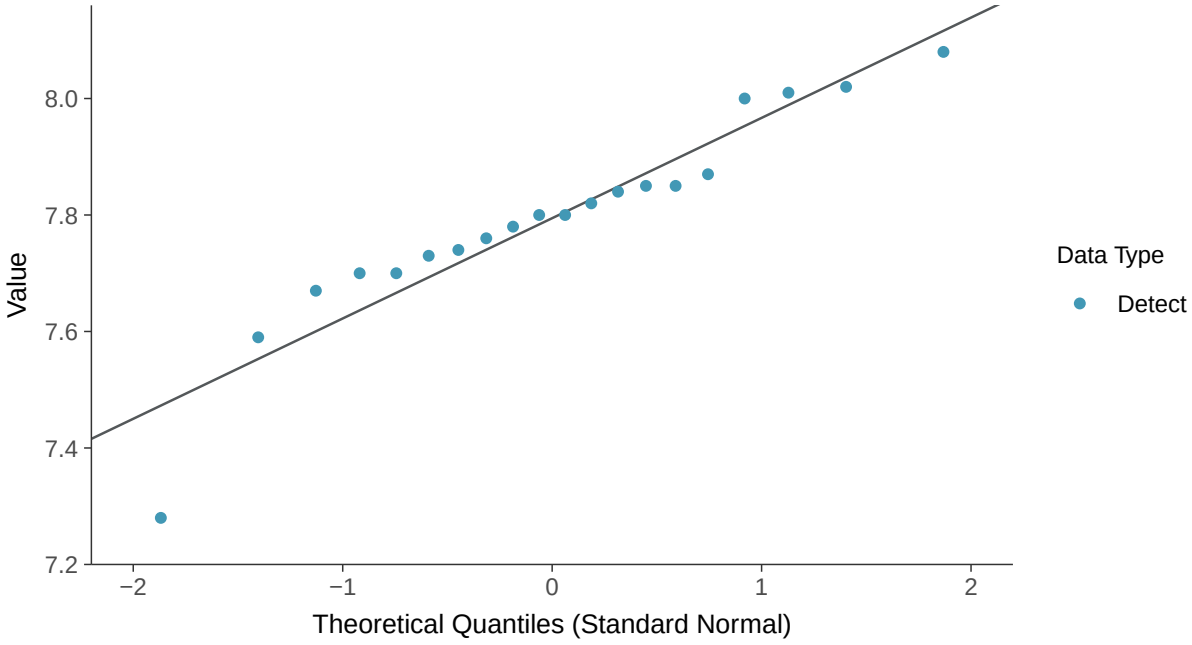
Boxplot by Season

pH (field), MW-31 (su)



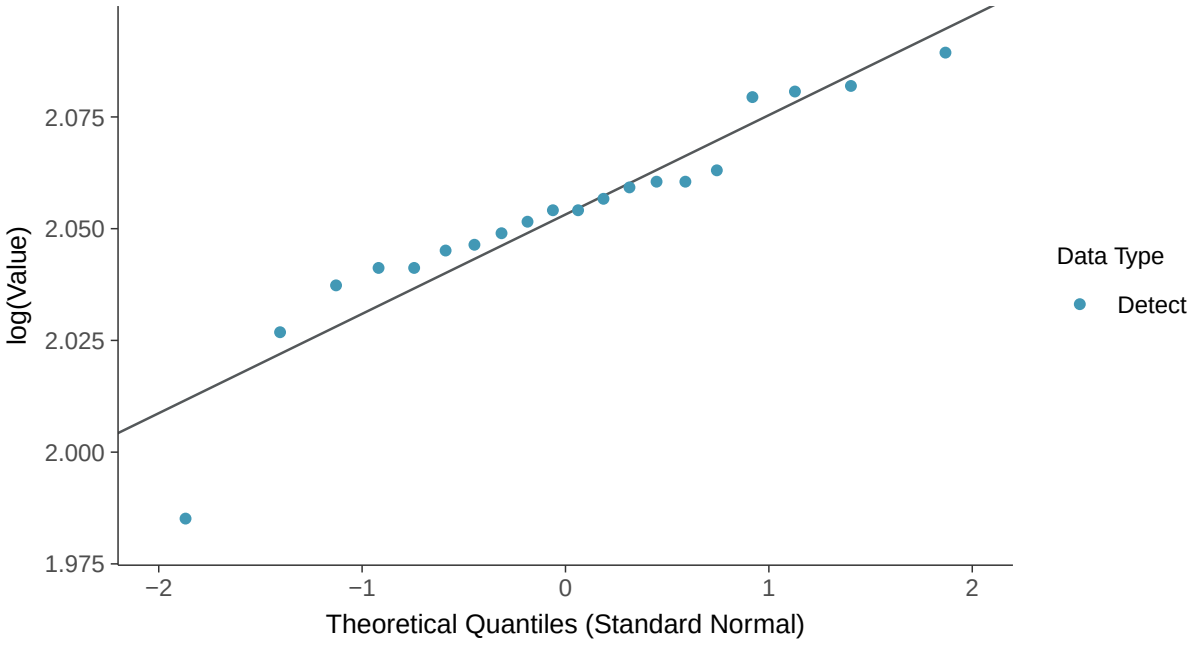
Normal Q-Q plot

pH (field), MW-31 (su)



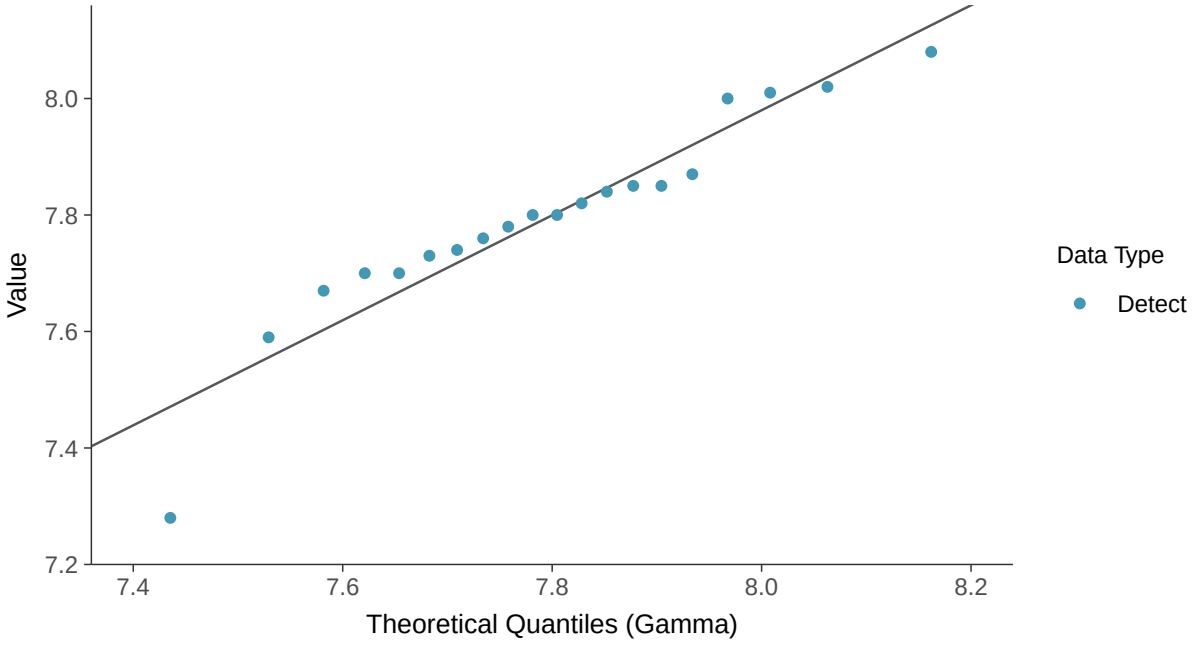
Lognormal Q-Q plot

pH (field), MW-31 (su)



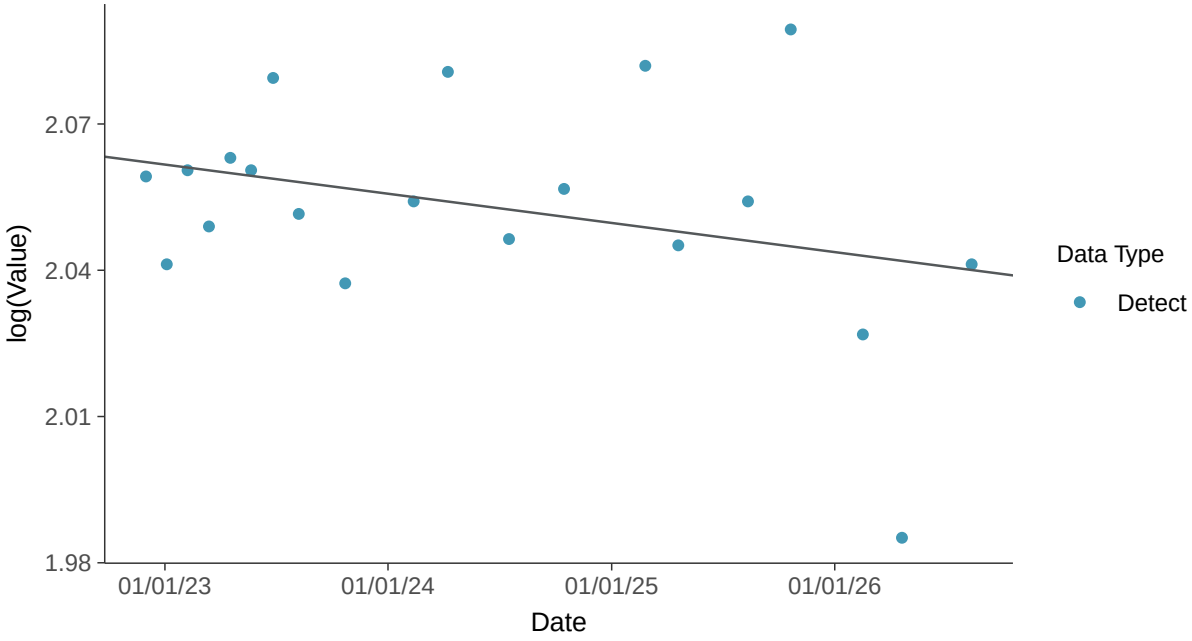
Gamma Q-Q plot

pH (field), MW-31 (su)



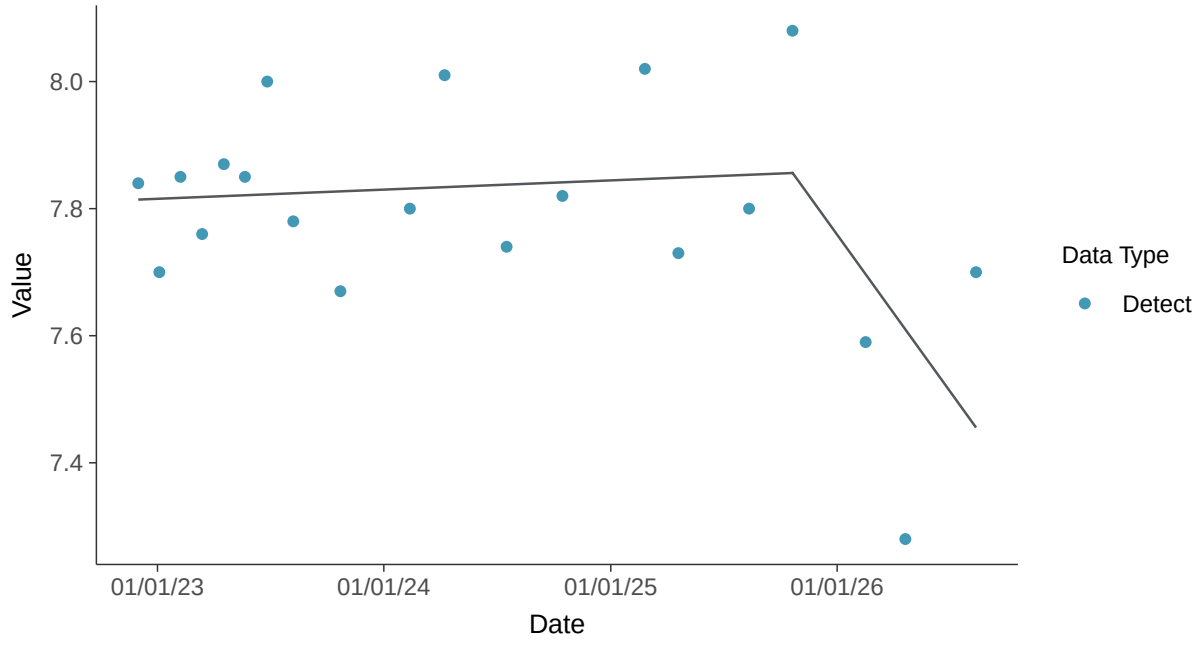
Trend Regression: Lognormal MLE

pH (field), MW-31 (su)



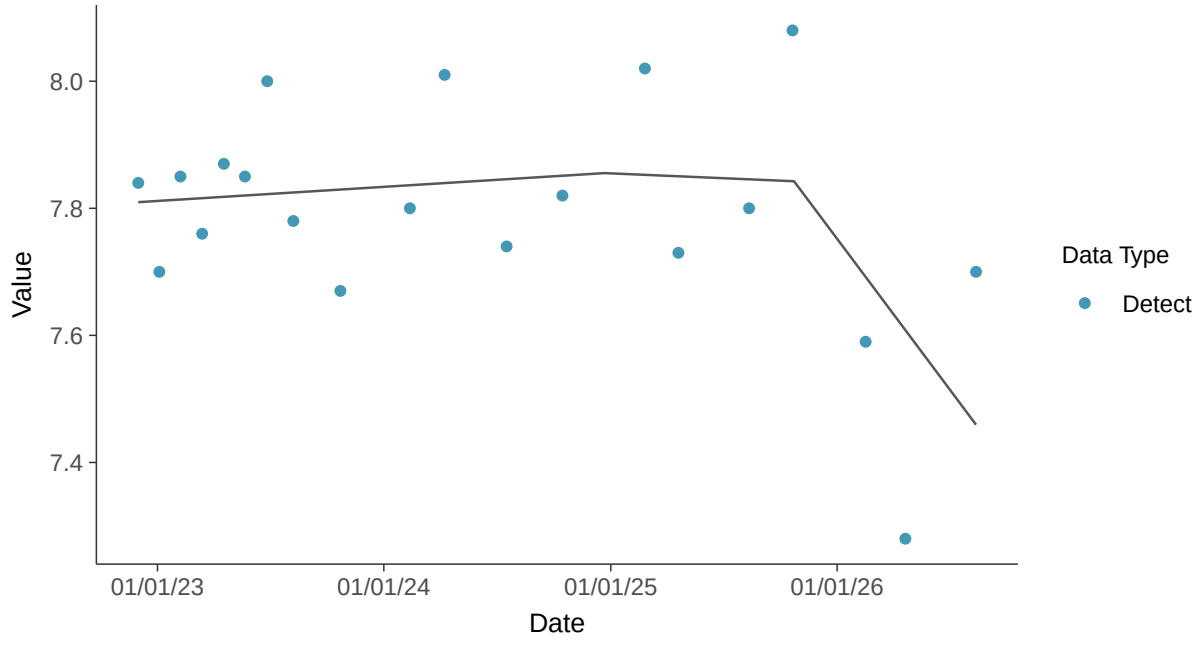
Trend Regression: Piecewise Linear-Linear

pH (field), MW-31 (su)



Trend Regression: Piecewise Linear-Linear-Linear

pH (field), MW-31 (su)

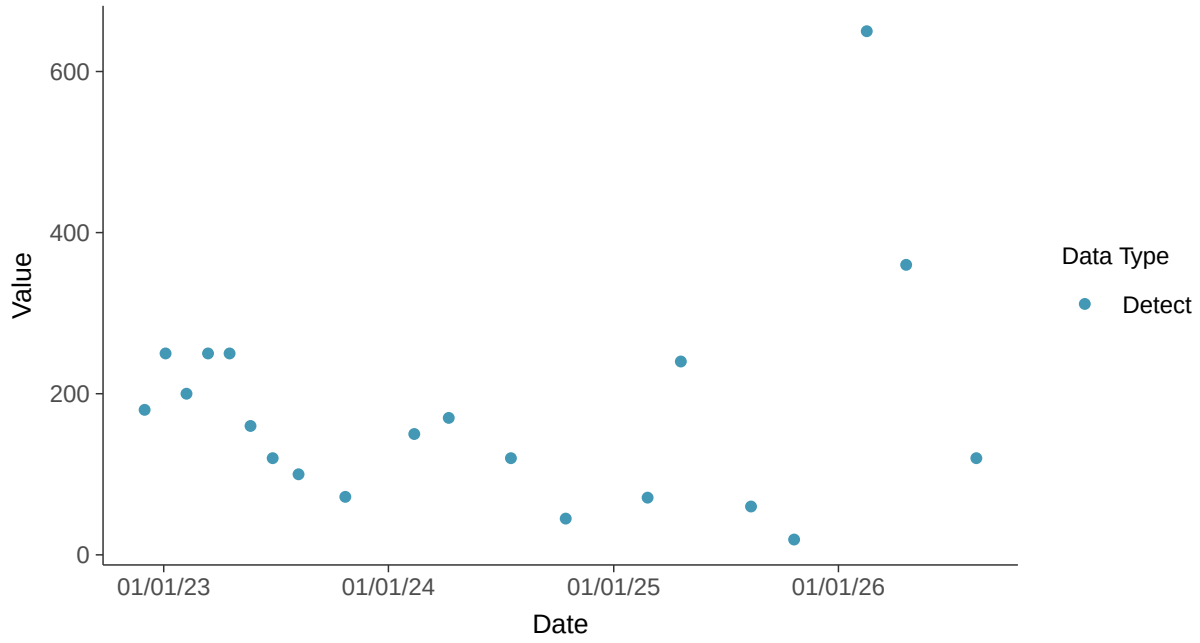


Appendix III: Sulfate (as SO4), MW-31

ID: 41_1_3_124

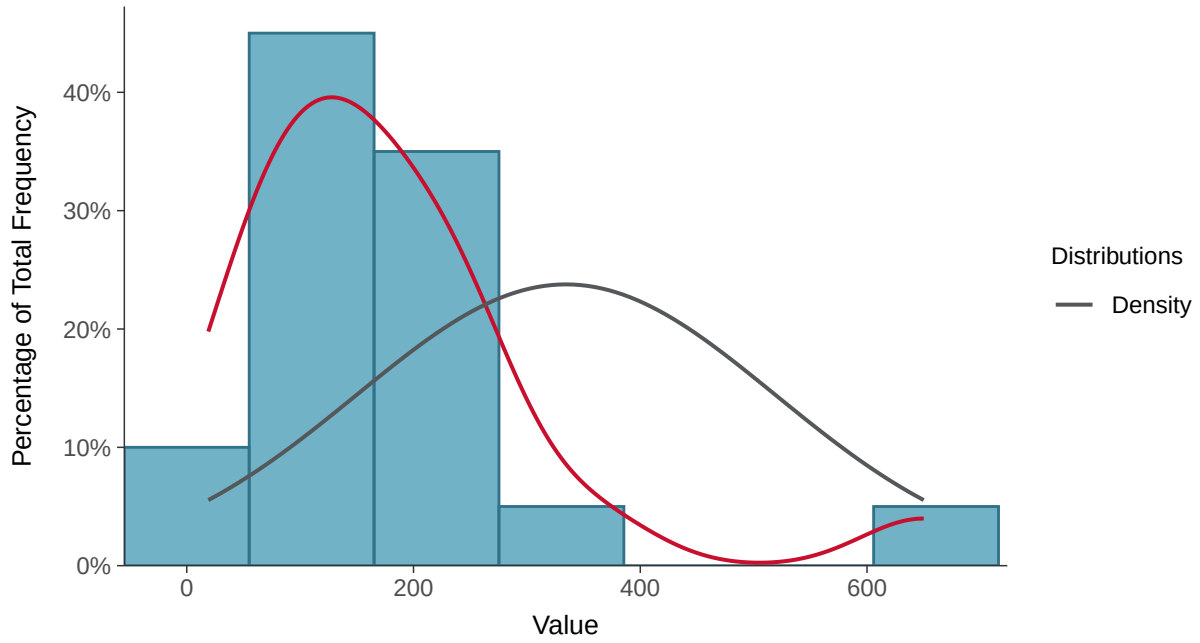
Scatter Plot

Sulfate (as SO4), MW-31 (mg/L)



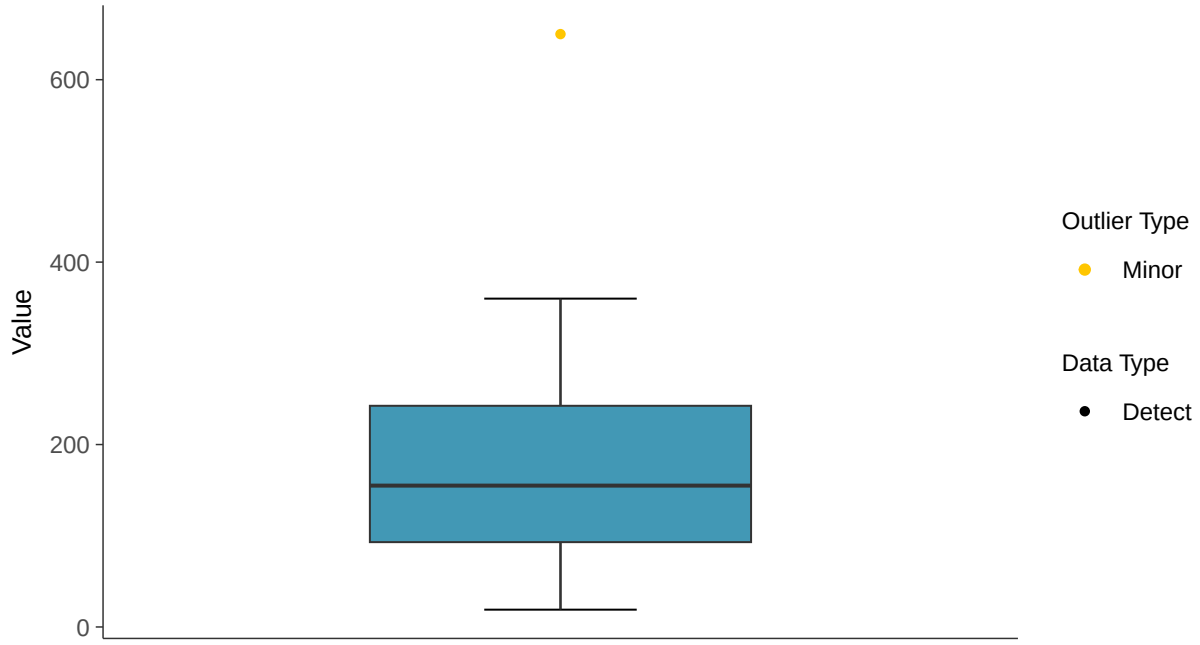
Histogram

Sulfate (as SO4), MW-31 (mg/L)



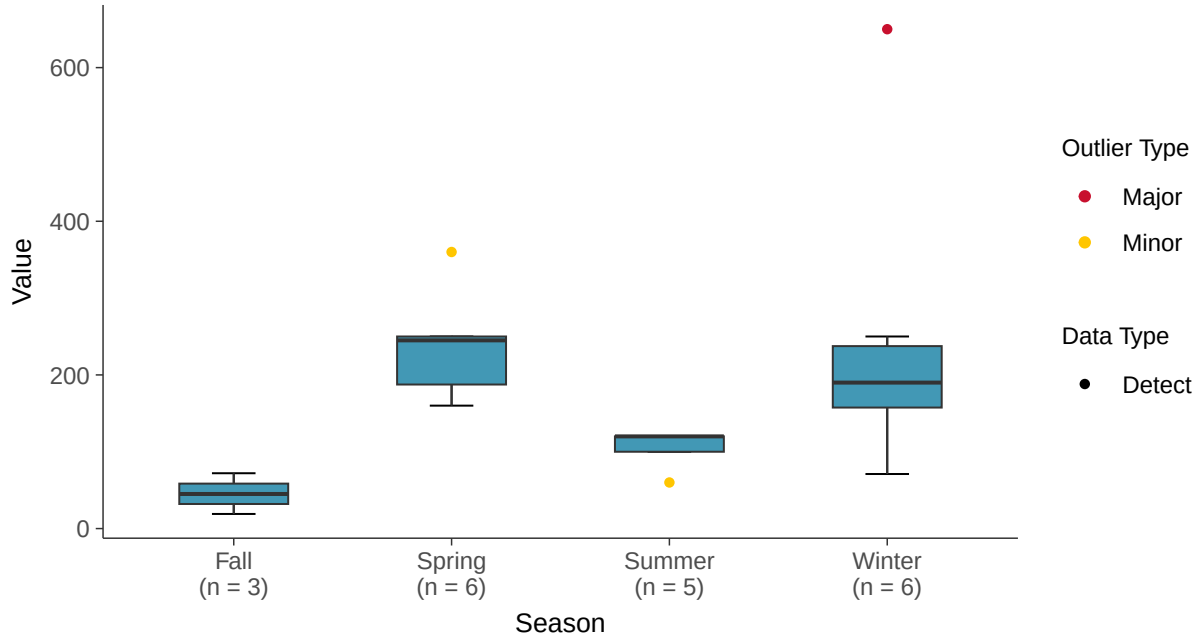
Boxplot

Sulfate (as SO4), MW-31 (mg/L)



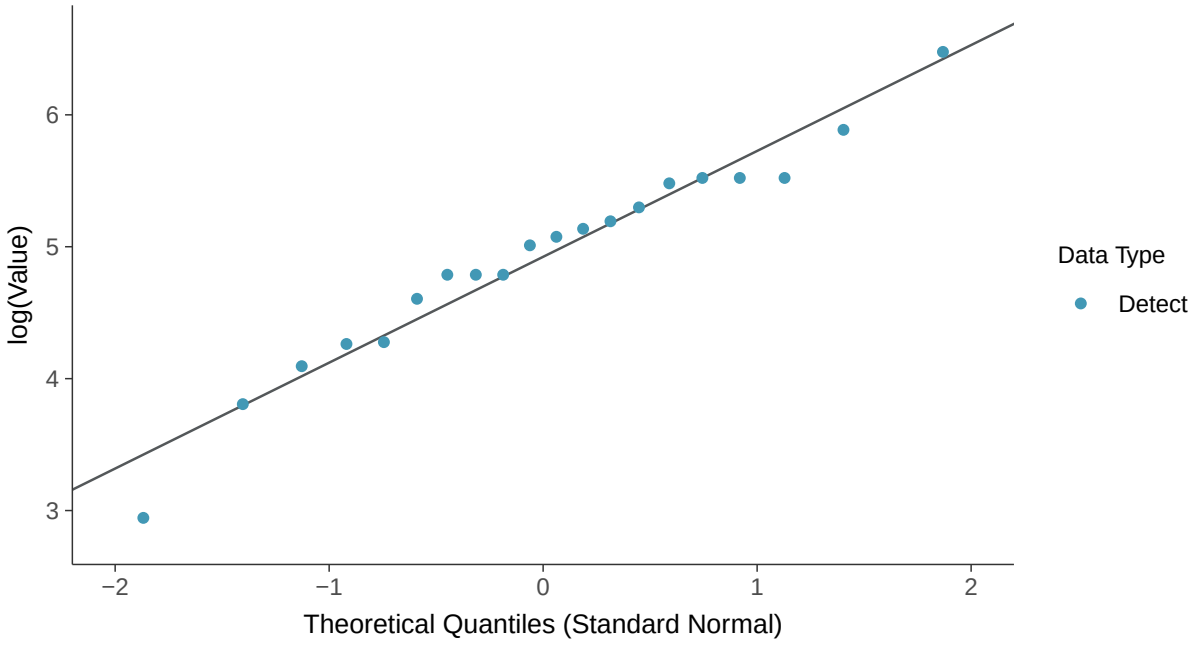
Boxplot by Season

Sulfate (as SO4), MW-31 (mg/L)



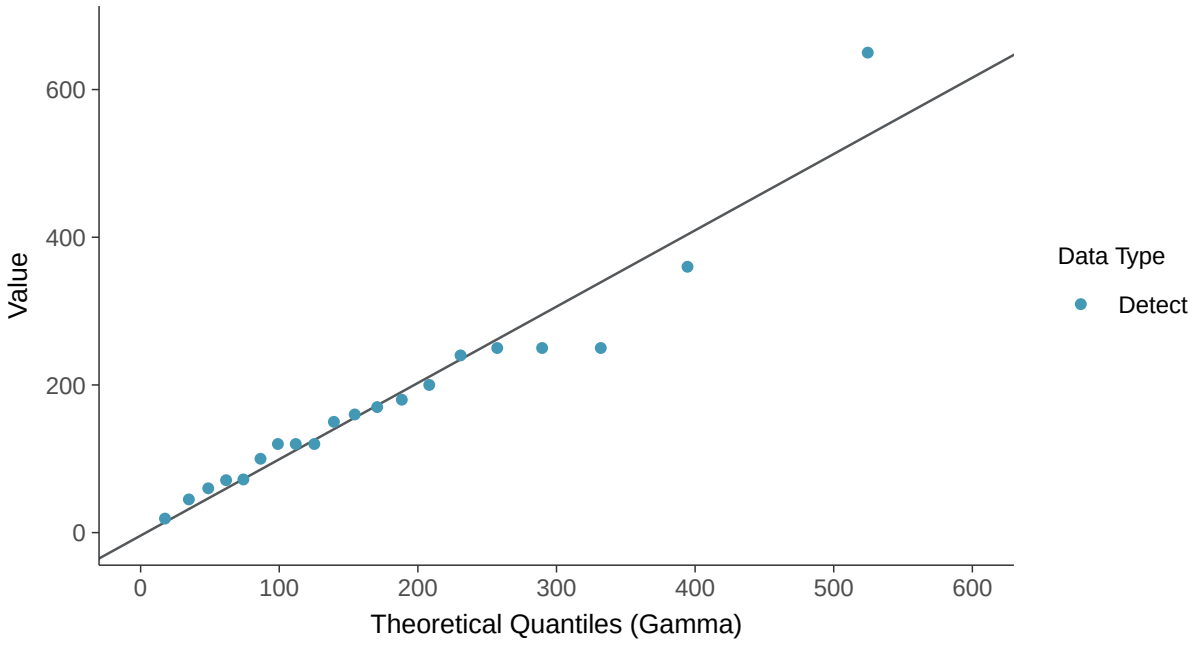
Lognormal Q-Q plot

Sulfate (as SO4), MW-31 (mg/L)



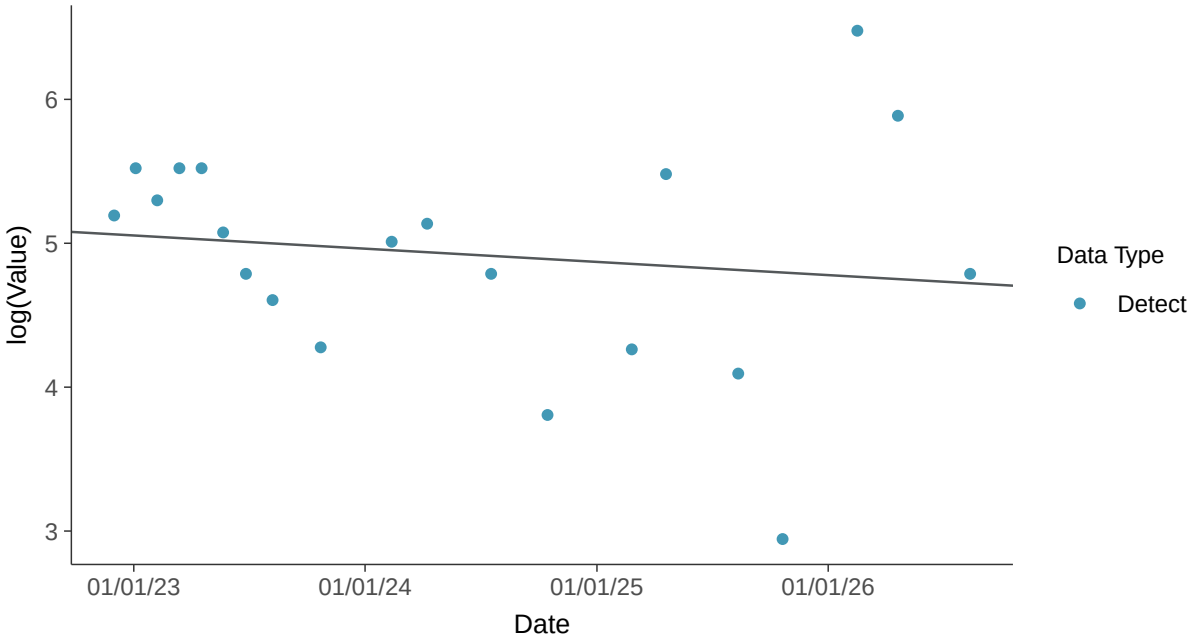
Gamma Q-Q plot

Sulfate (as SO4), MW-31 (mg/L)



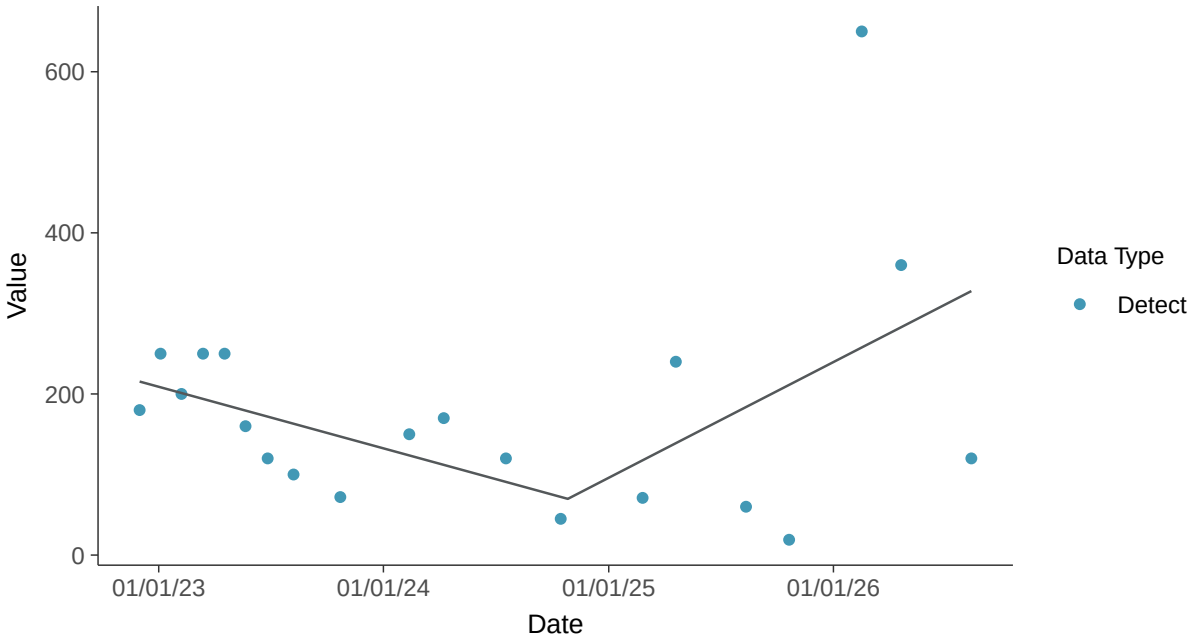
Trend Regression: Lognormal MLE

Sulfate (as SO4), MW-31 (mg/L)



Trend Regression: Piecewise Linear-Linear

Sulfate (as SO4), MW-31 (mg/L)

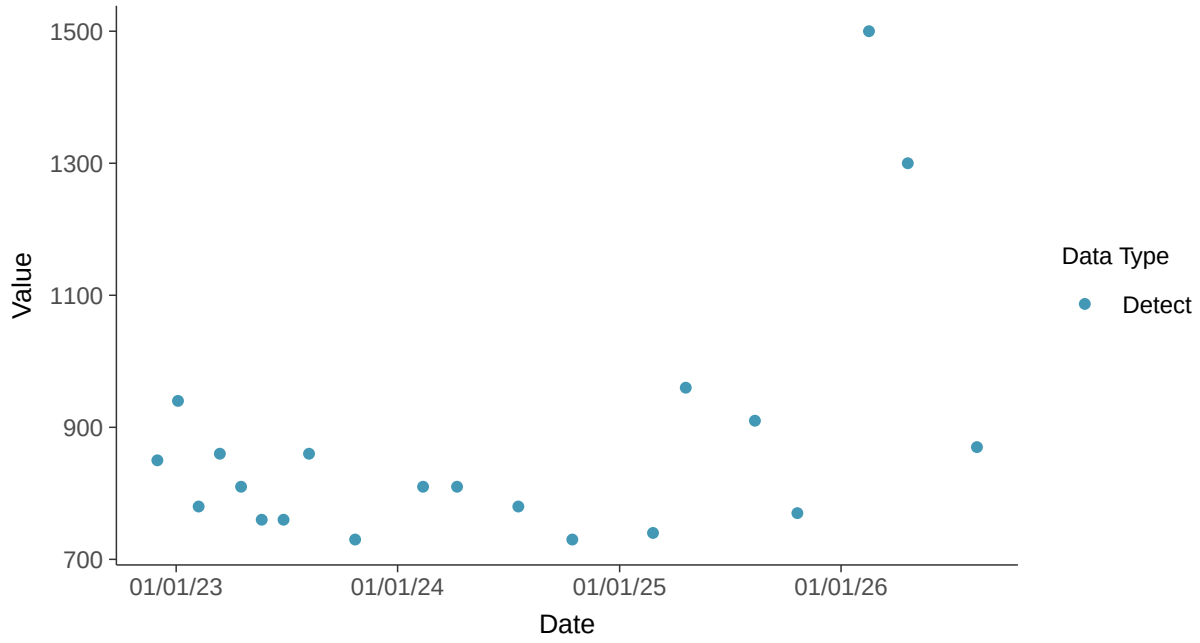


Appendix III: Total Dissolved Solids, MW-31

ID: 41_1_3_126

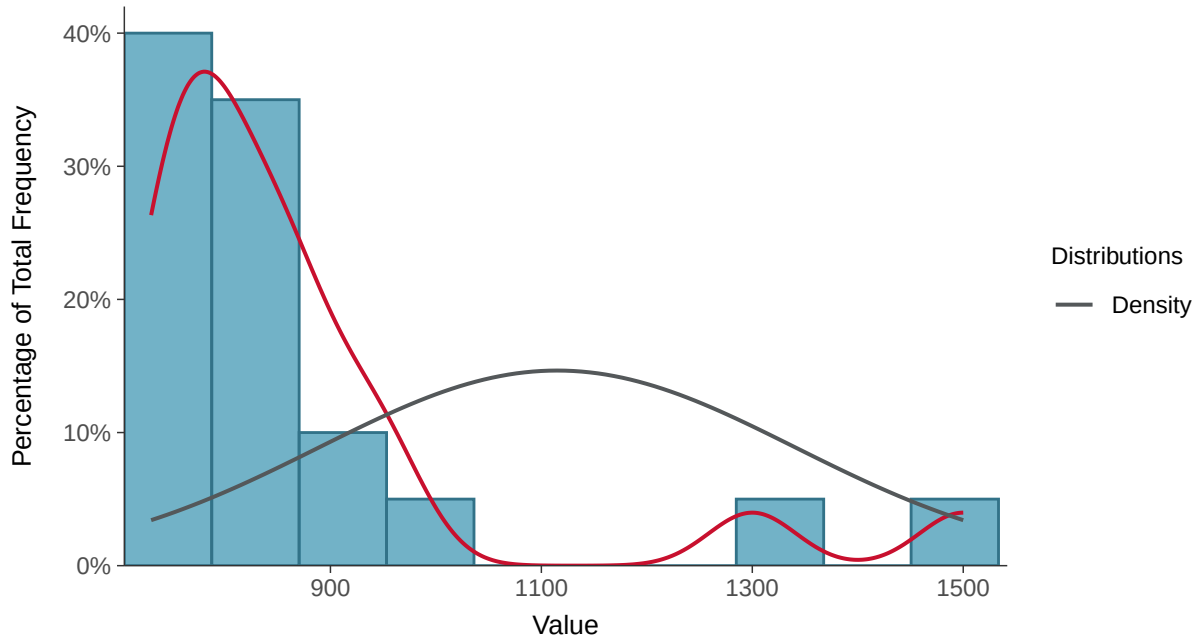
Scatter Plot

Total Dissolved Solids, MW-31 (mg/L)



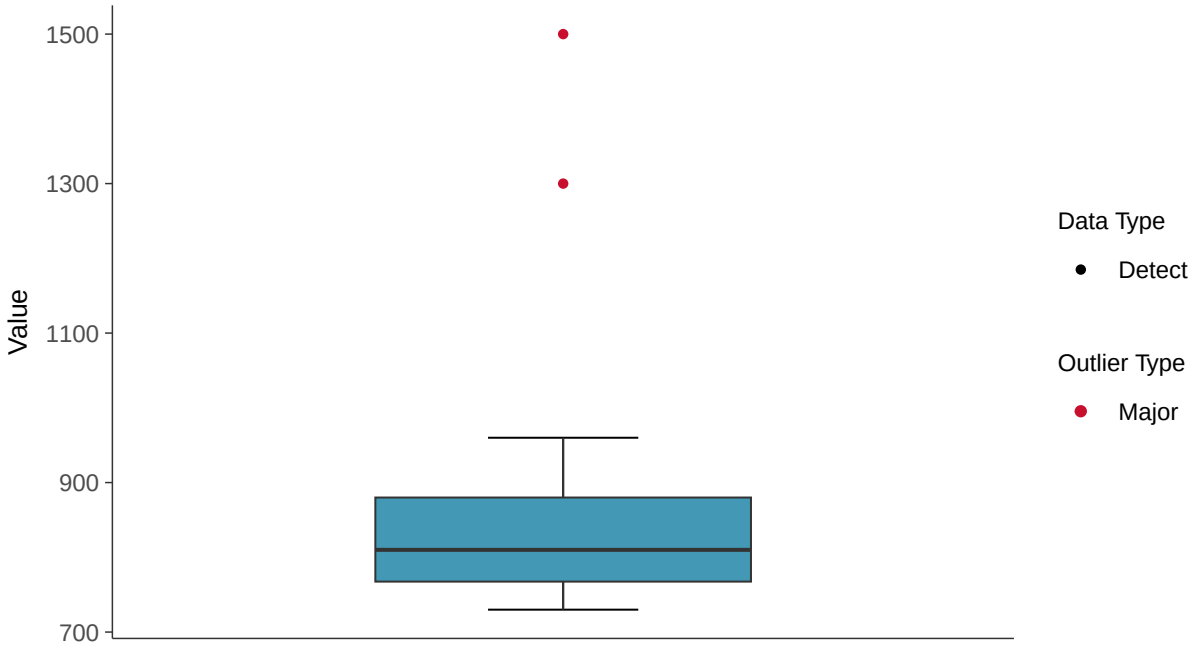
Histogram

Total Dissolved Solids, MW-31 (mg/L)



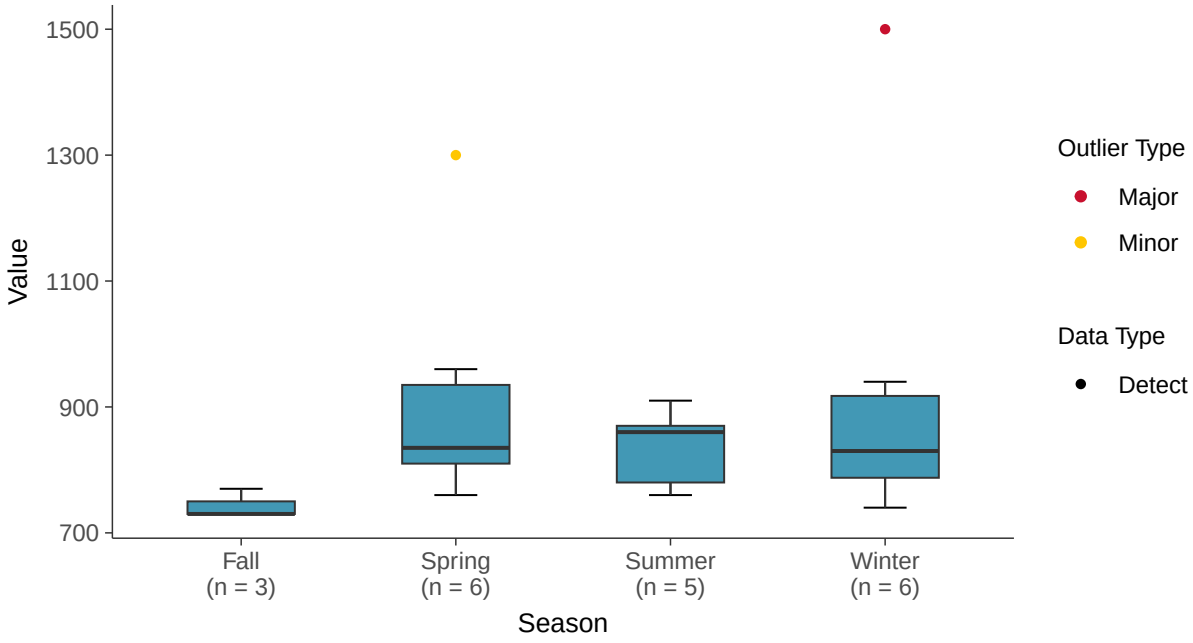
Boxplot

Total Dissolved Solids, MW-31 (mg/L)



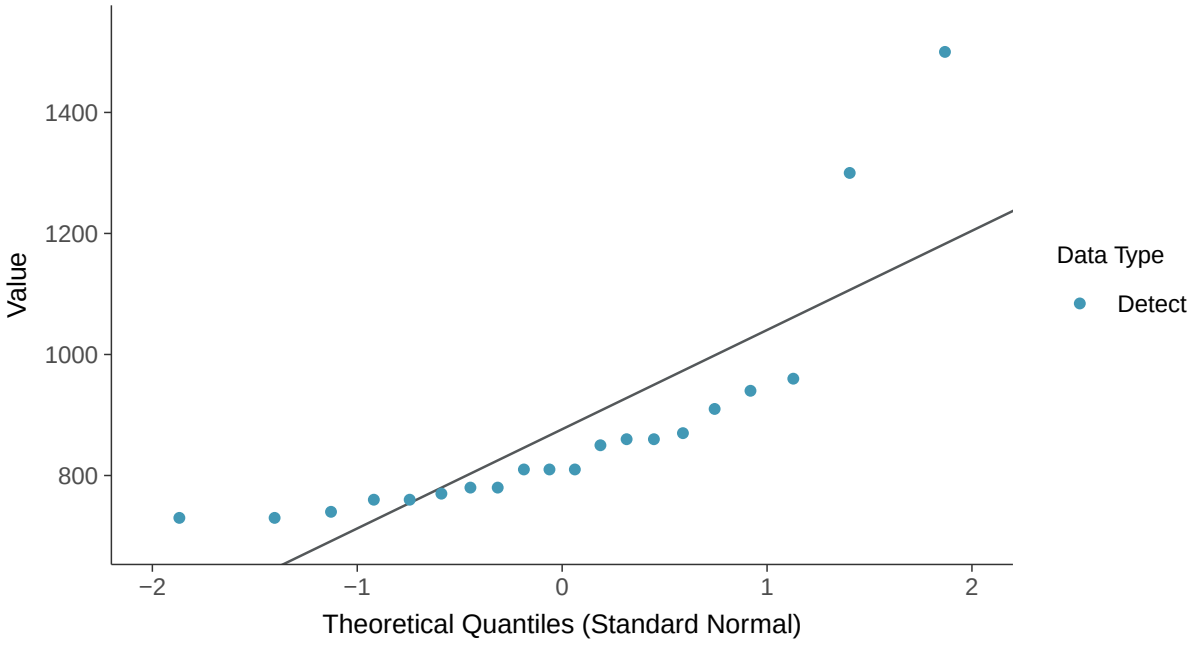
Boxplot by Season

Total Dissolved Solids, MW-31 (mg/L)



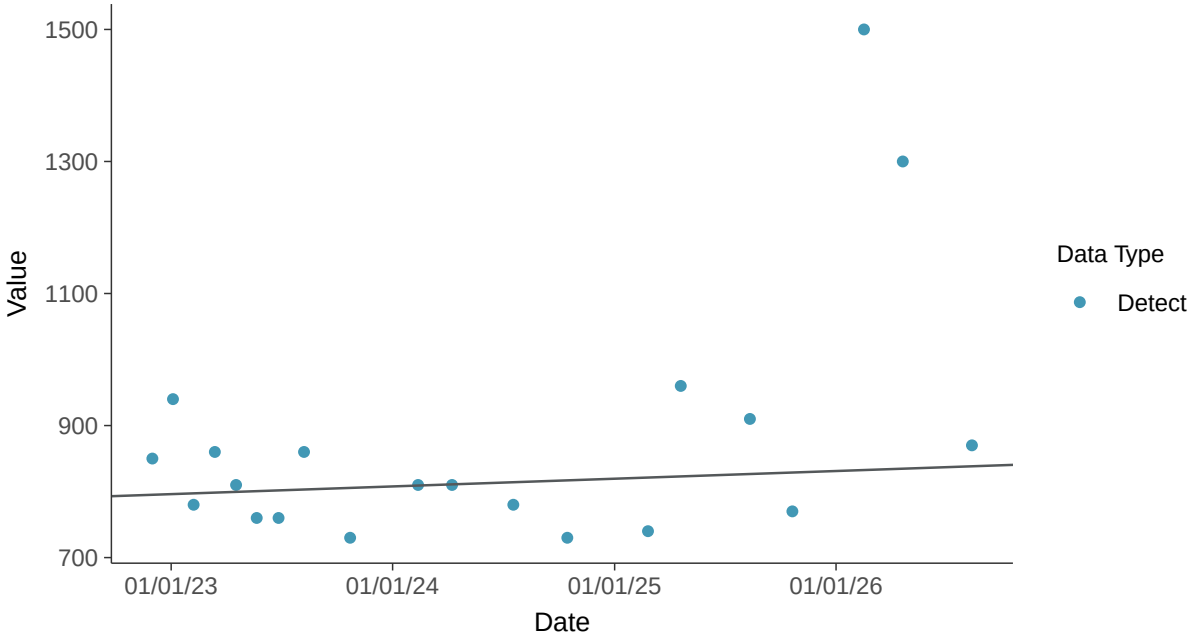
Normal Q-Q plot

Total Dissolved Solids, MW-31 (mg/L)



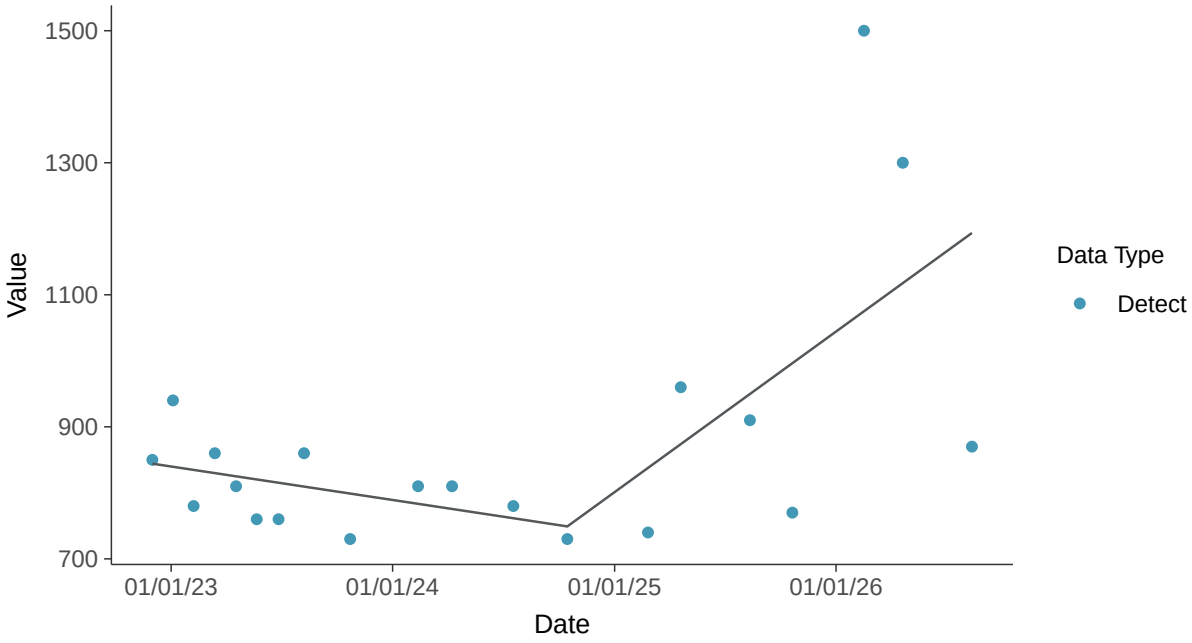
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Total Dissolved Solids, MW-31 (mg/L)



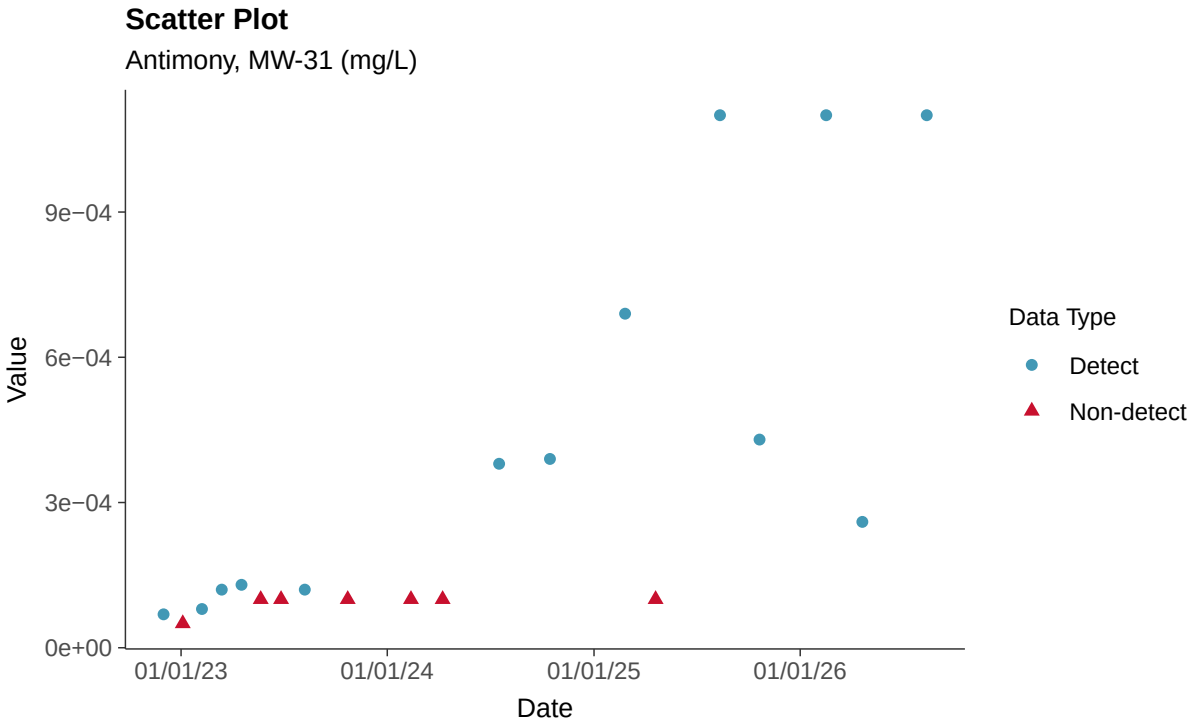
Trend Regression: Piecewise Linear-Linear

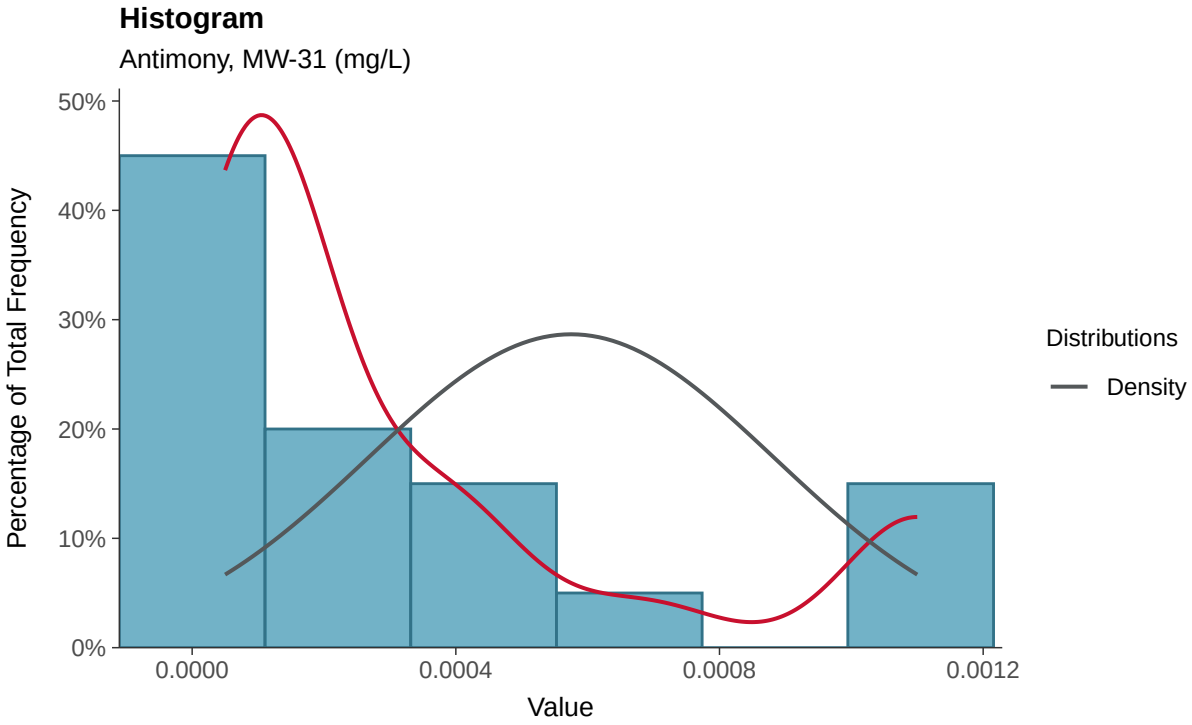
Total Dissolved Solids, MW-31 (mg/L)



Appendix IV: Antimony, MW-31

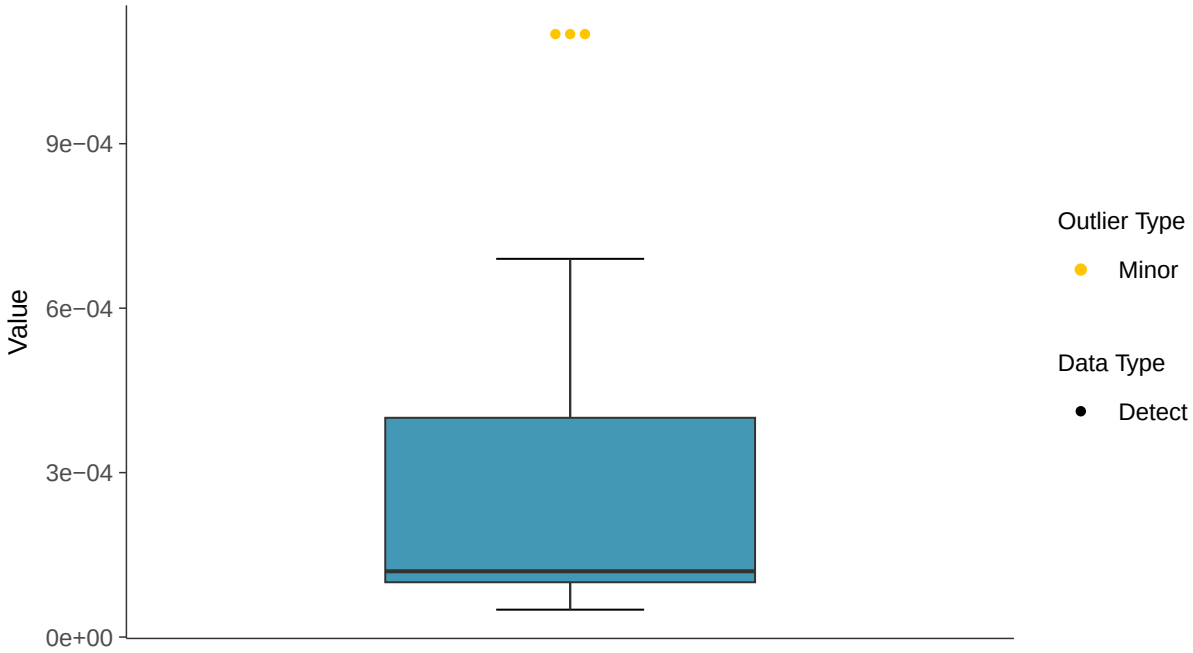
ID: 41_1_4_101





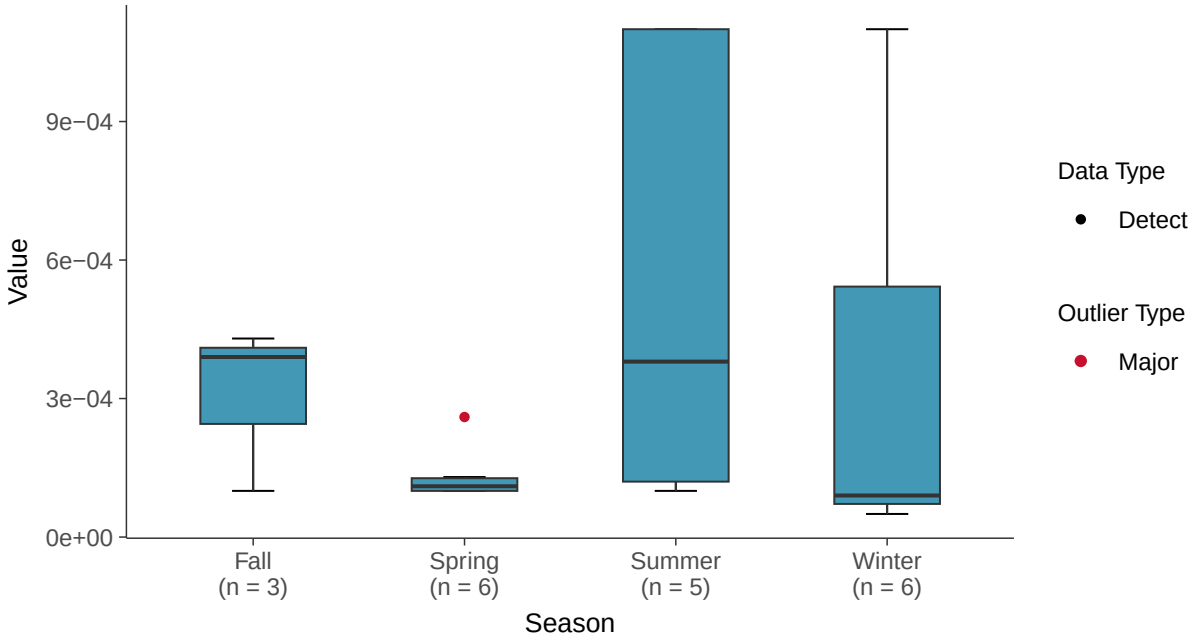
Boxplot

Antimony, MW-31 (mg/L)



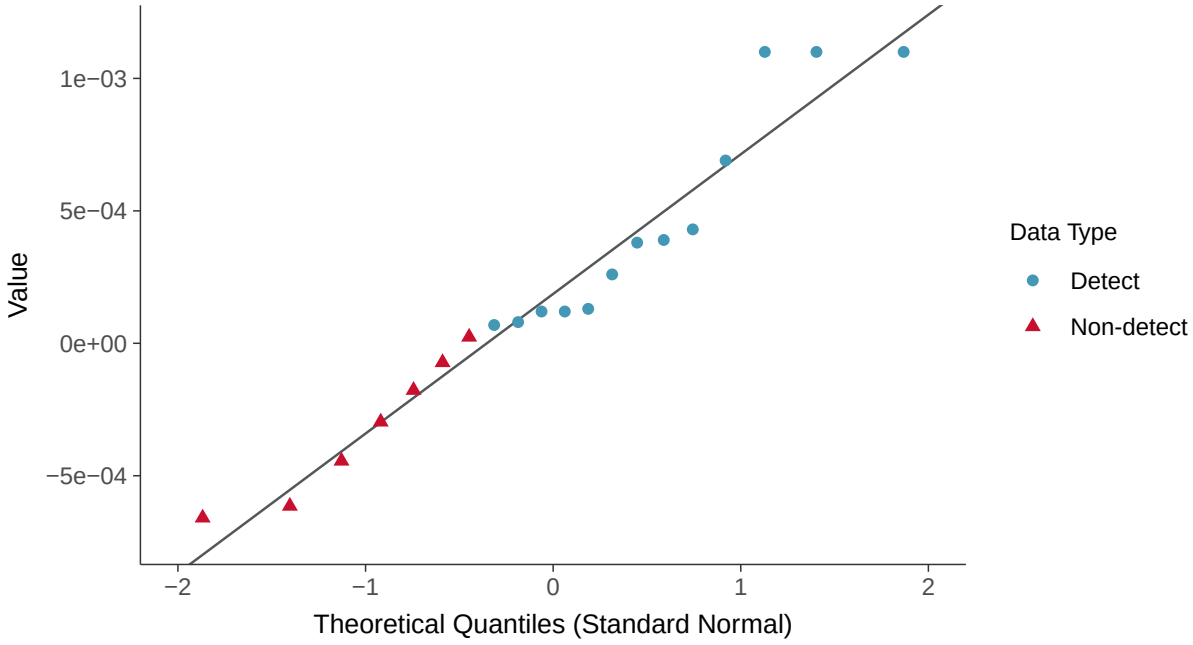
Boxplot by Season

Antimony, MW-31 (mg/L)



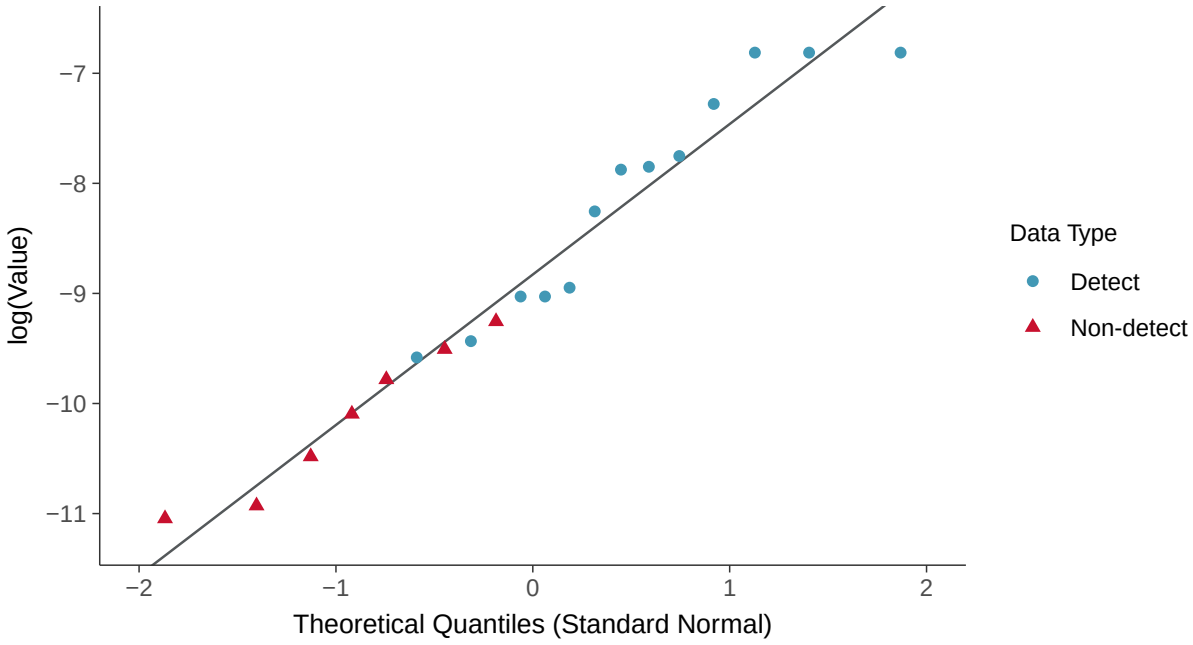
Normal Q-Q plot using ROS Imputed Estimates

Antimony, MW-31 (mg/L)



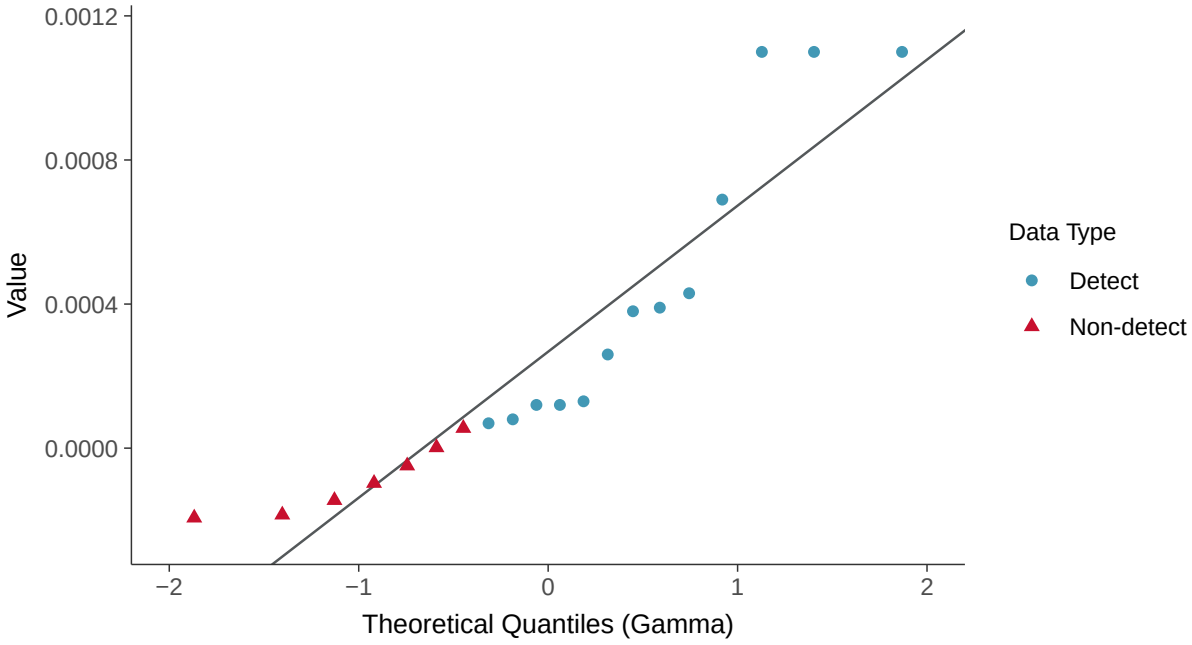
Lognormal Q-Q plot using ROS Imputed Estimates

Antimony, MW-31 (mg/L)



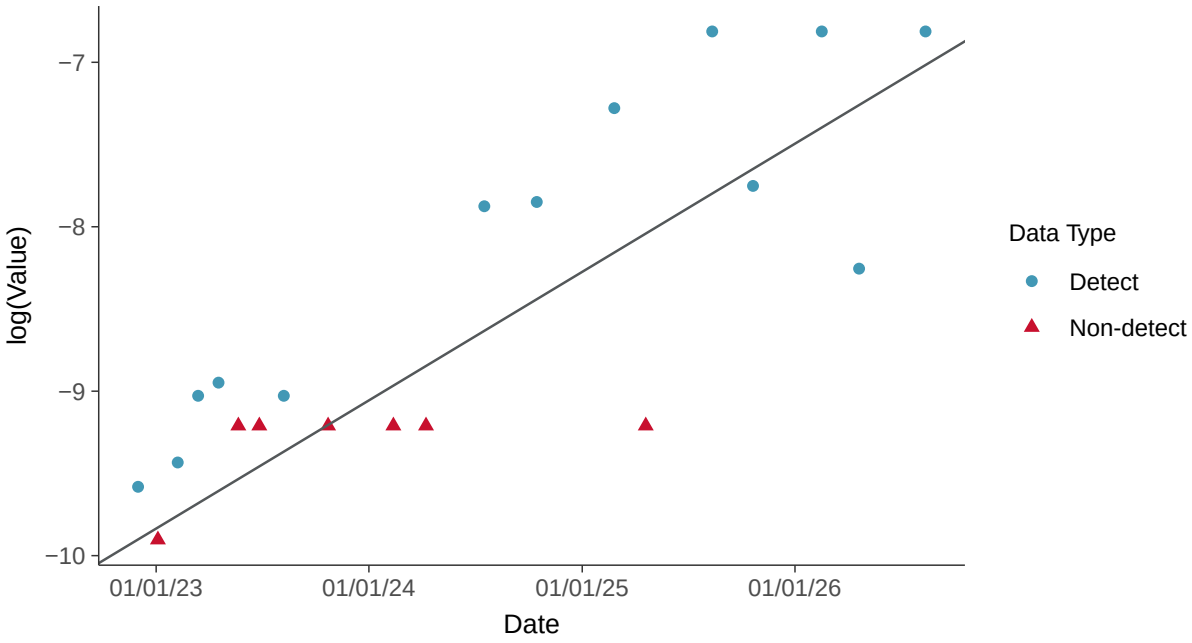
Gamma Q-Q plot using ROS Imputed Estimates

Antimony, MW-31 (mg/L)



Trend Regression: Lognormal MLE

Antimony, MW-31 (mg/L)

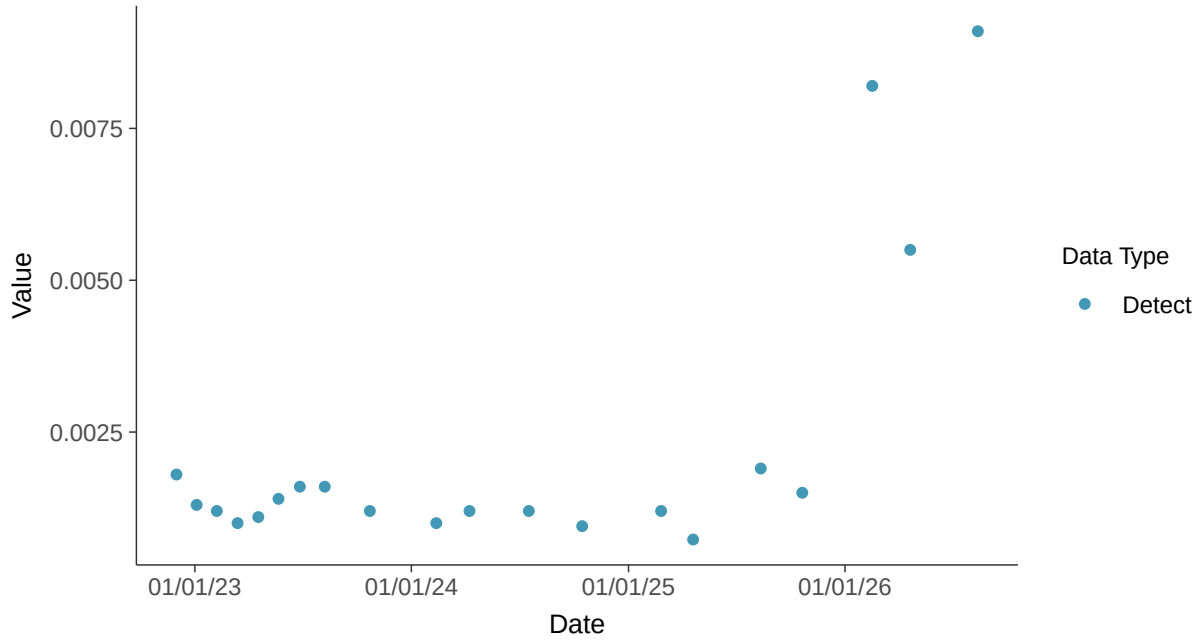


Appendix IV: Arsenic, MW-31

ID: 41_1_4_102

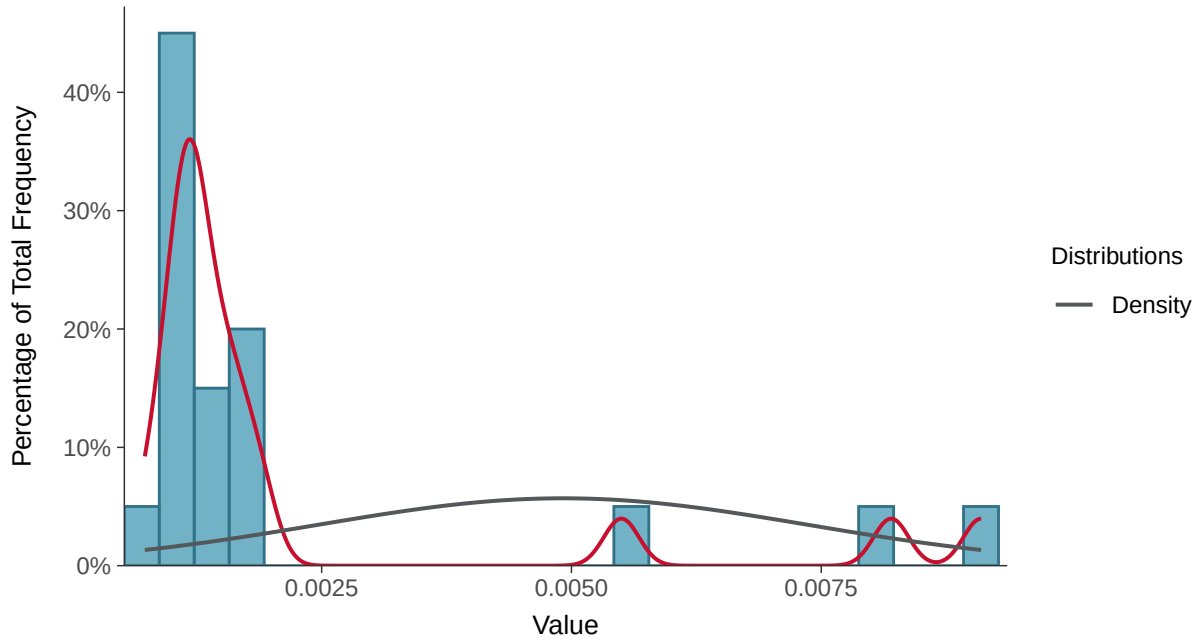
Scatter Plot

Arsenic, MW-31 (mg/L)



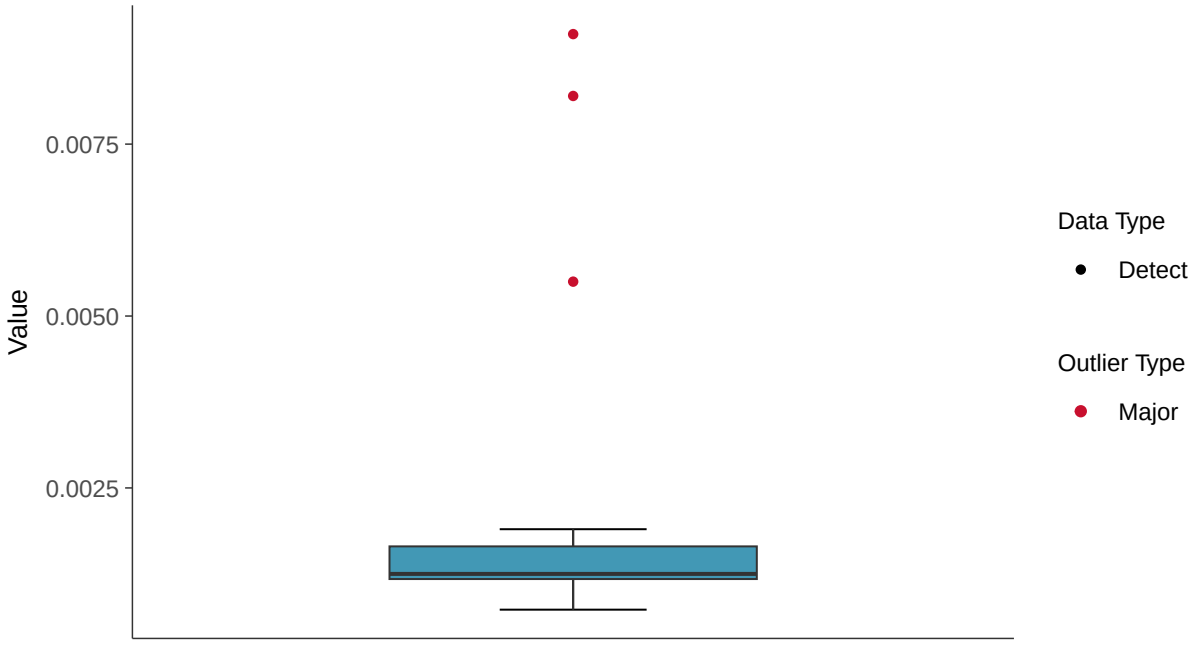
Histogram

Arsenic, MW-31 (mg/L)



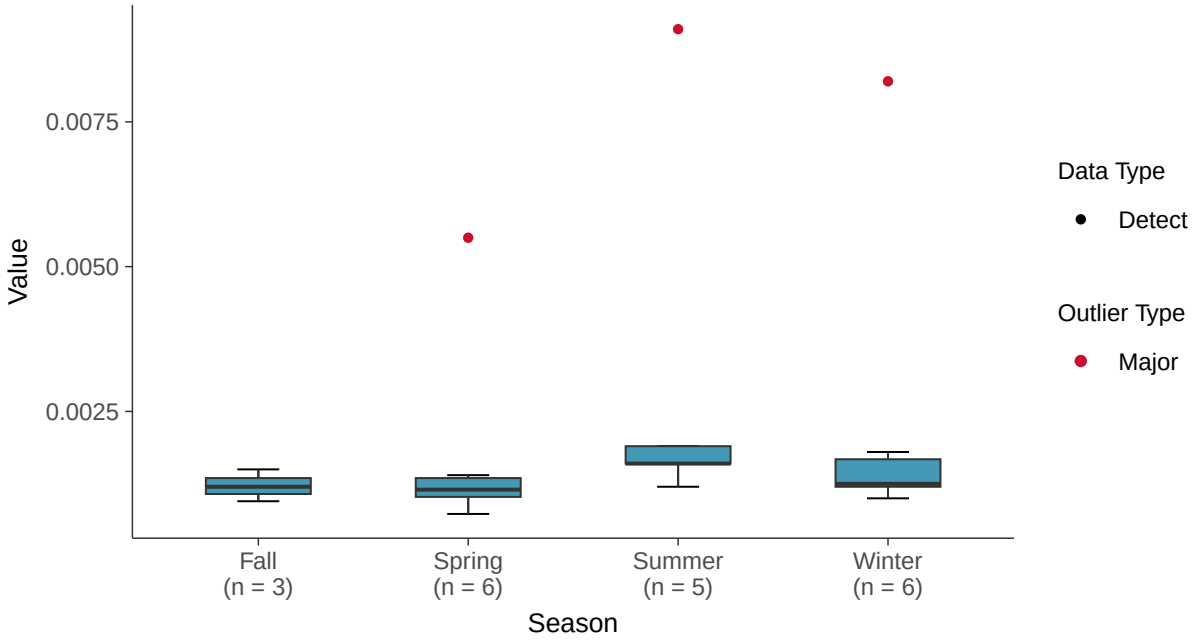
Boxplot

Arsenic, MW-31 (mg/L)



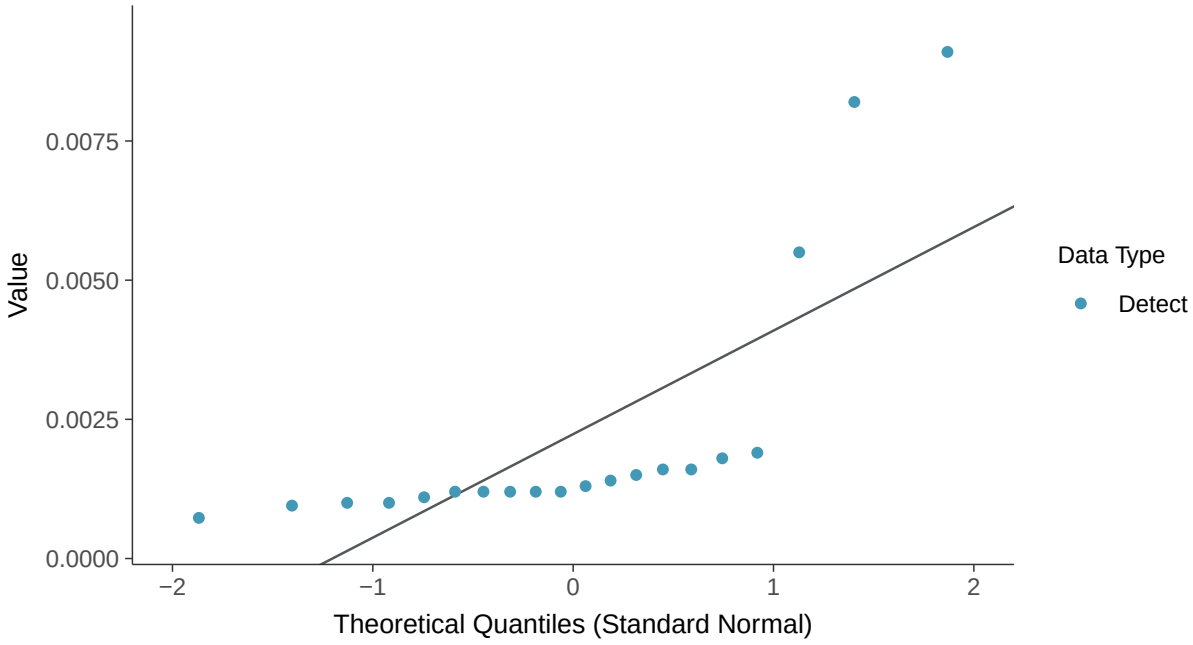
Boxplot by Season

Arsenic, MW-31 (mg/L)



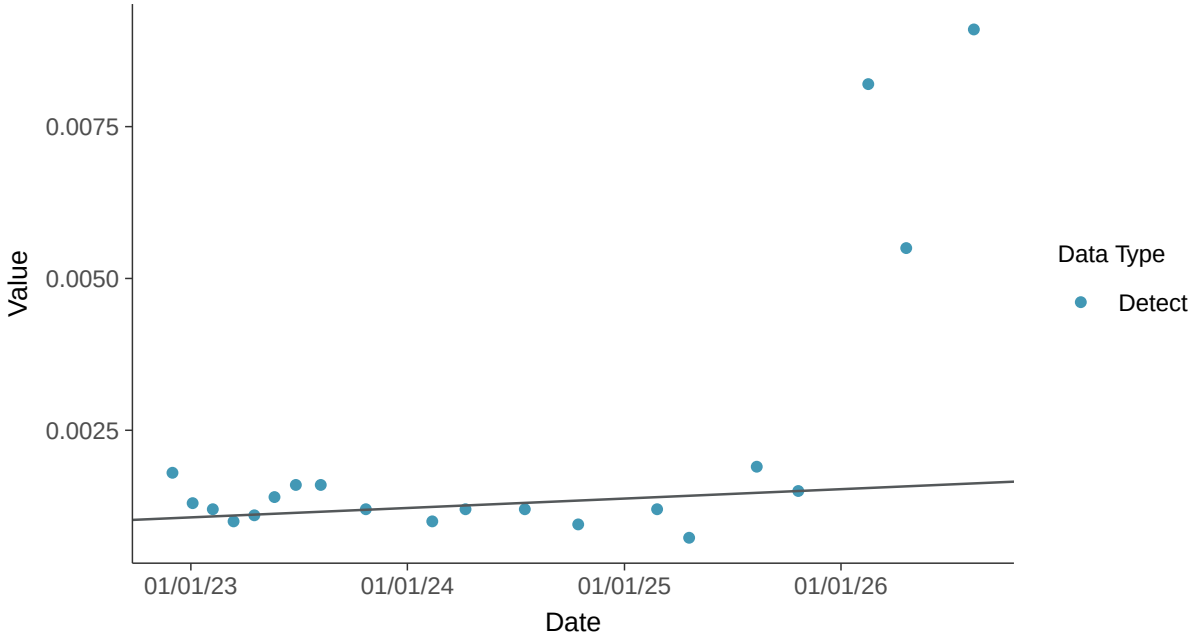
Normal Q-Q plot

Arsenic, MW-31 (mg/L)



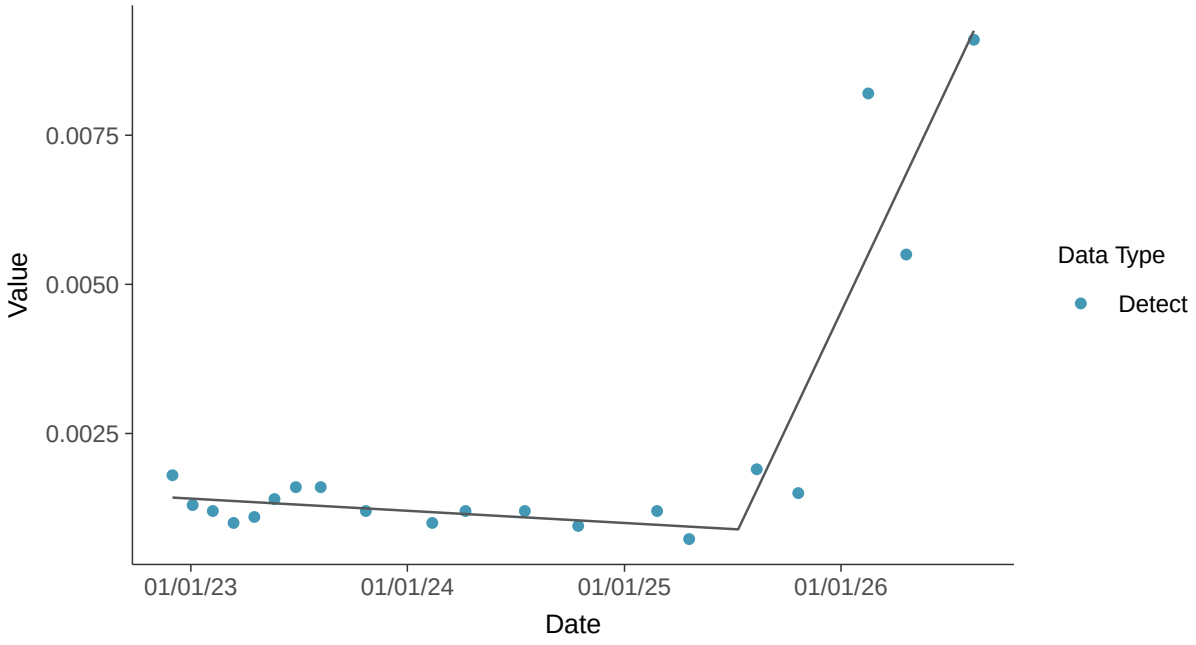
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Arsenic, MW-31 (mg/L)



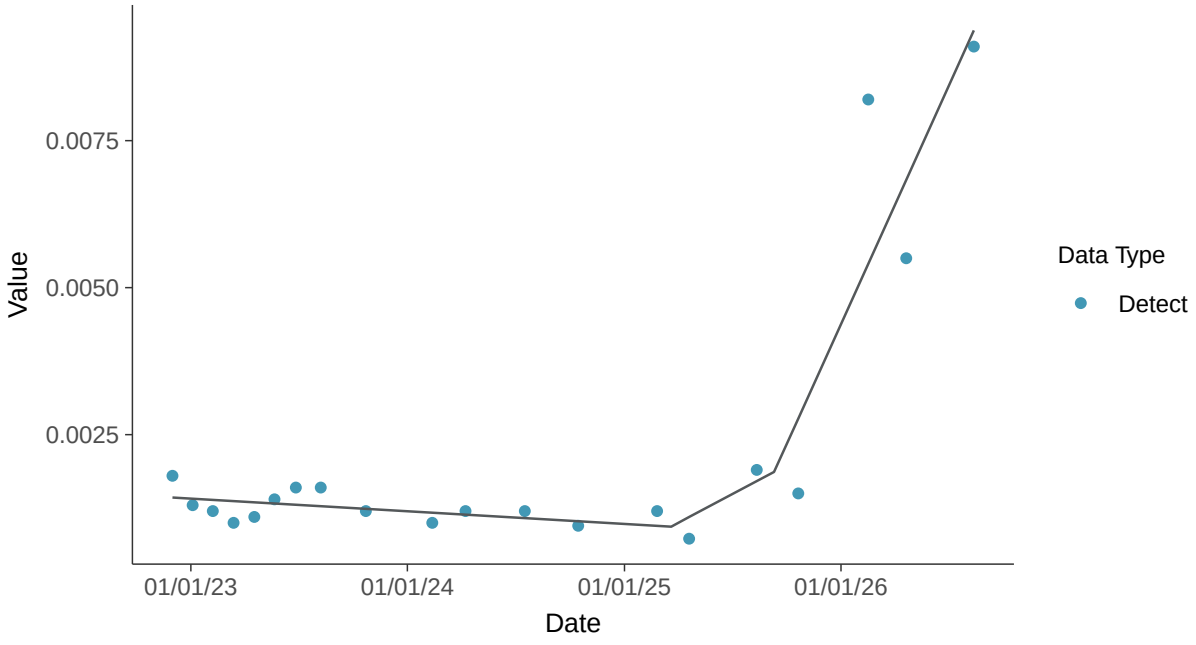
Trend Regression: Piecewise Linear-Linear

Arsenic, MW-31 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Arsenic, MW-31 (mg/L)

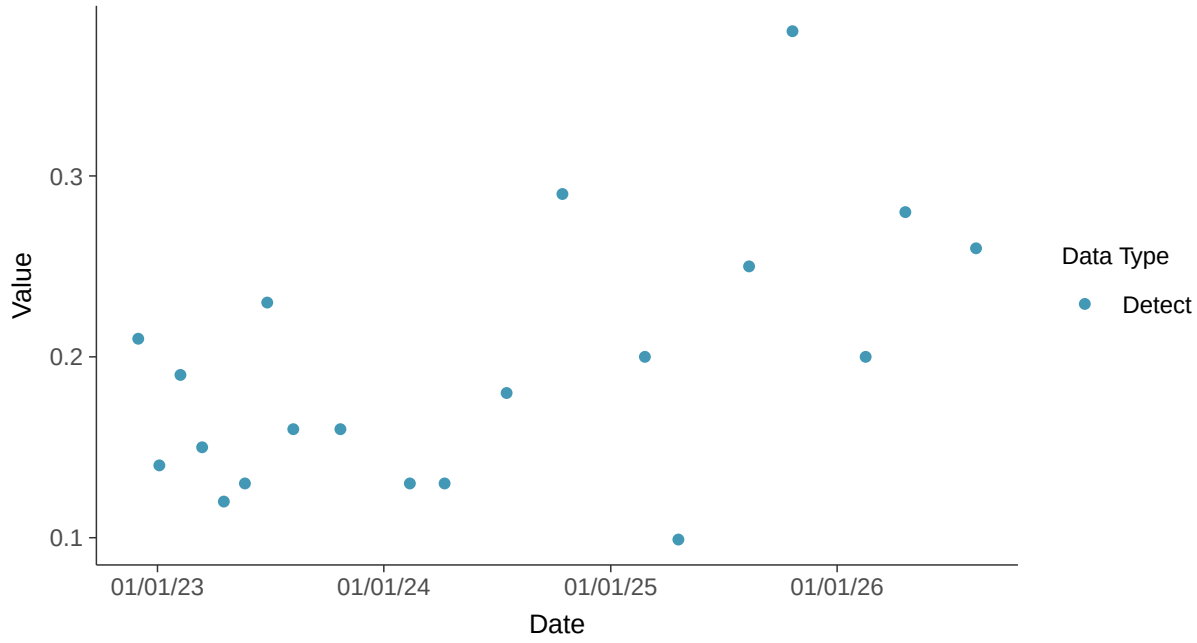


Appendix IV: Barium, MW-31

ID: 41_1_4_103

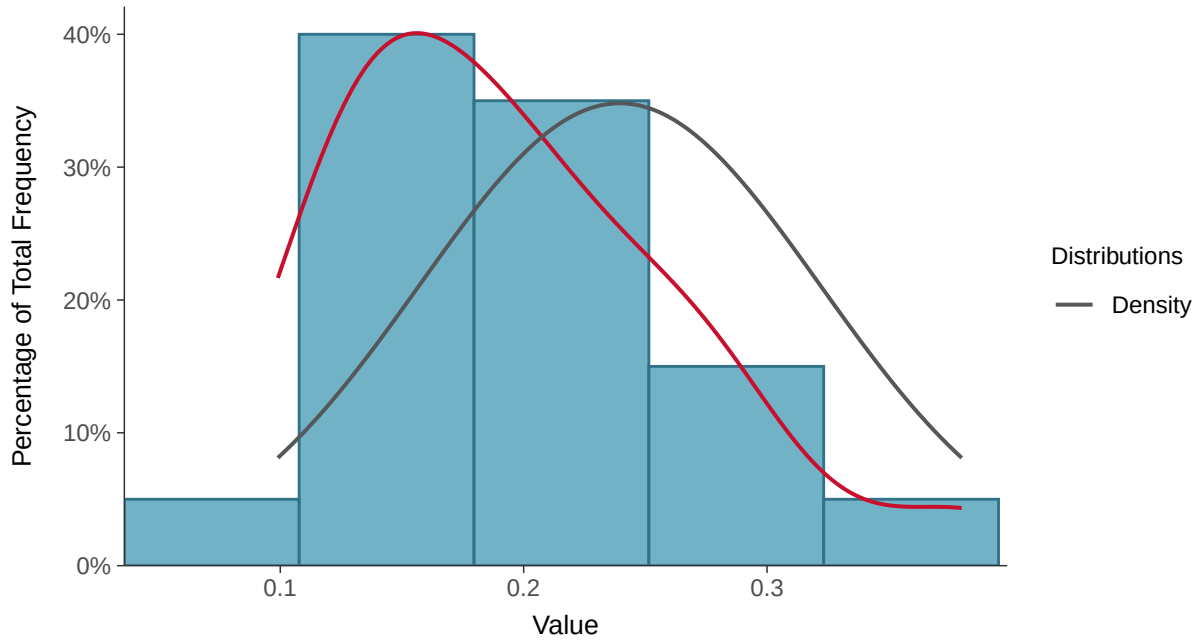
Scatter Plot

Barium, MW-31 (mg/L)



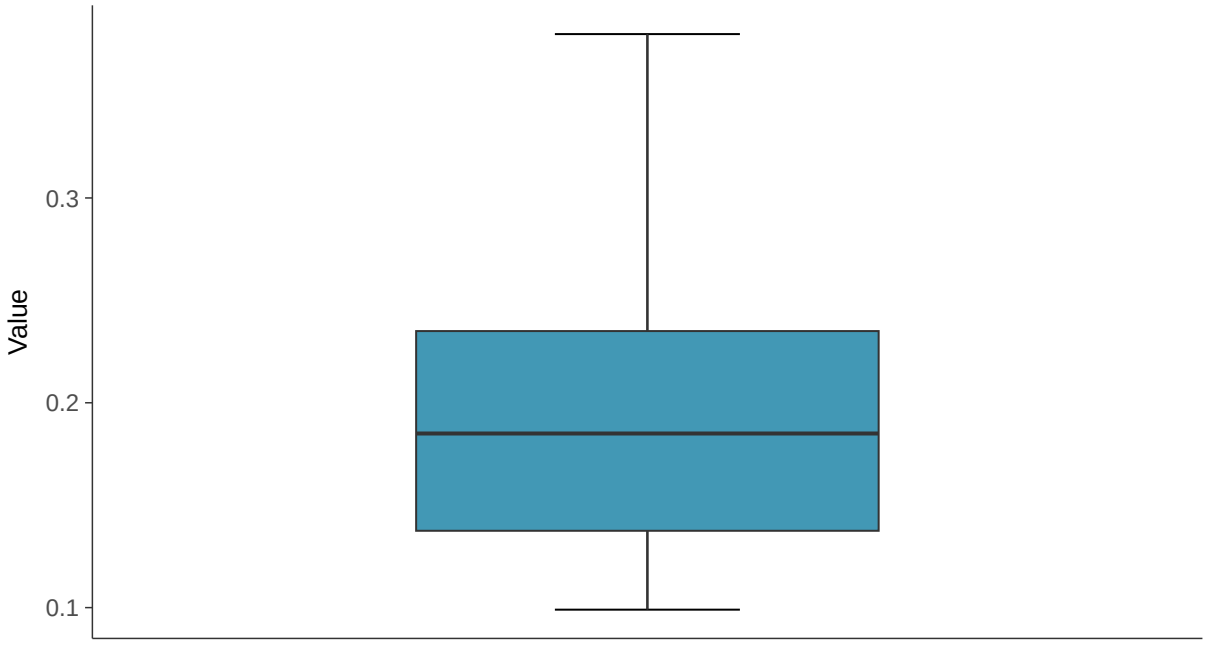
Histogram

Barium, MW-31 (mg/L)



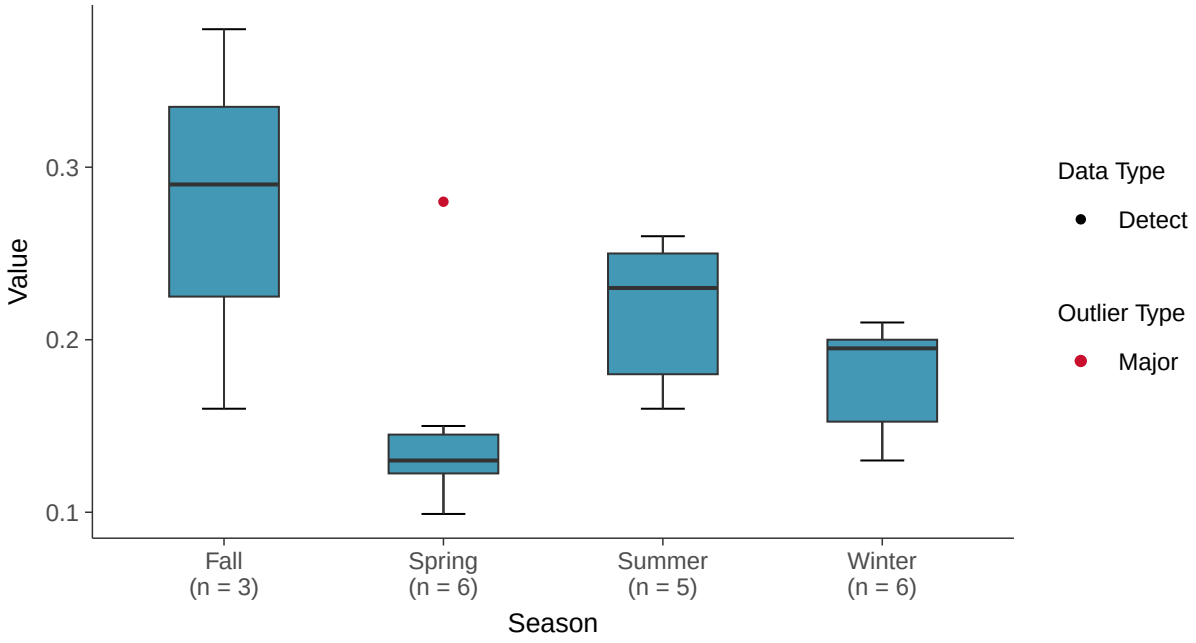
Boxplot

Barium, MW-31 (mg/L)



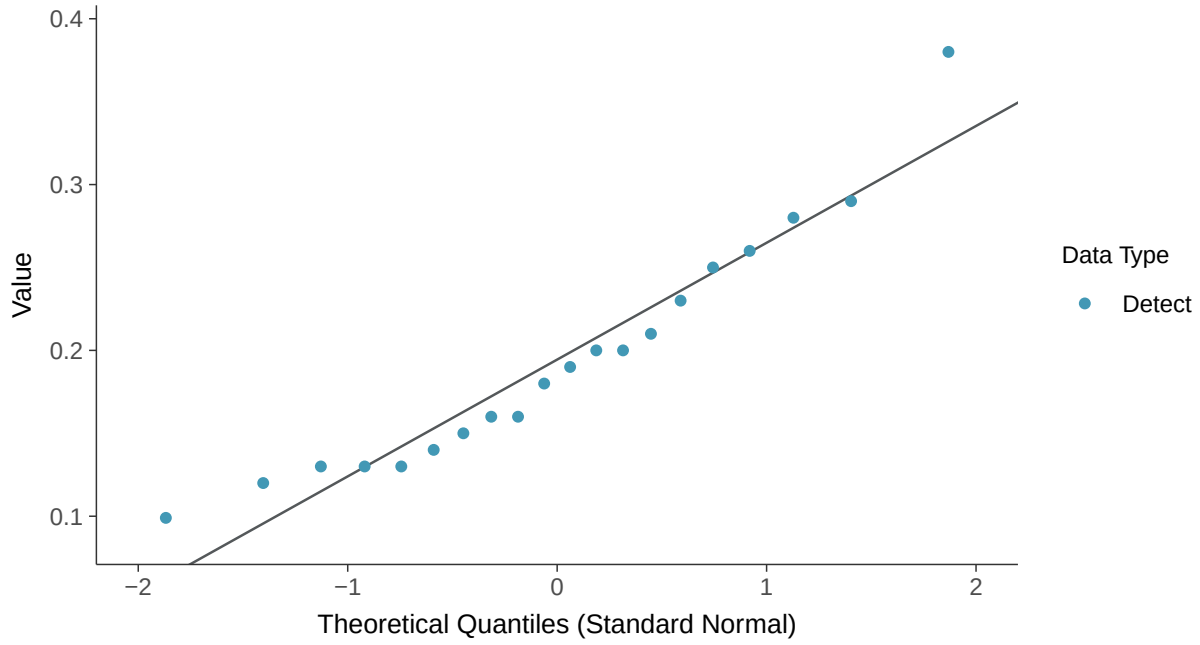
Boxplot by Season

Barium, MW-31 (mg/L)



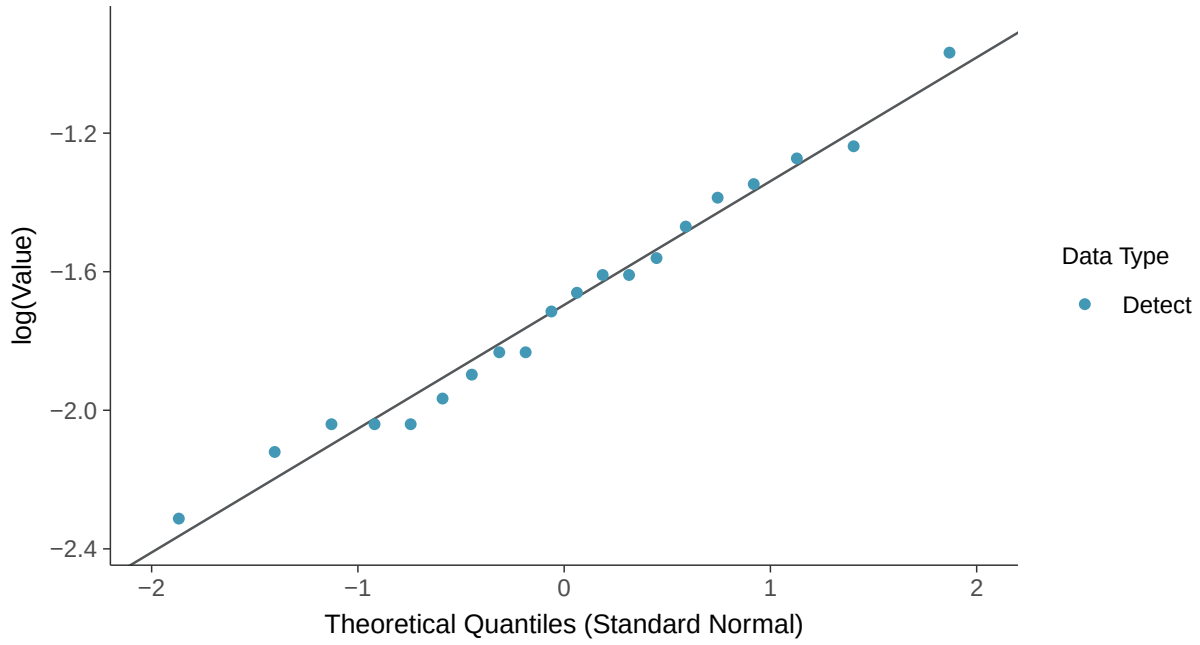
Normal Q-Q plot

Barium, MW-31 (mg/L)



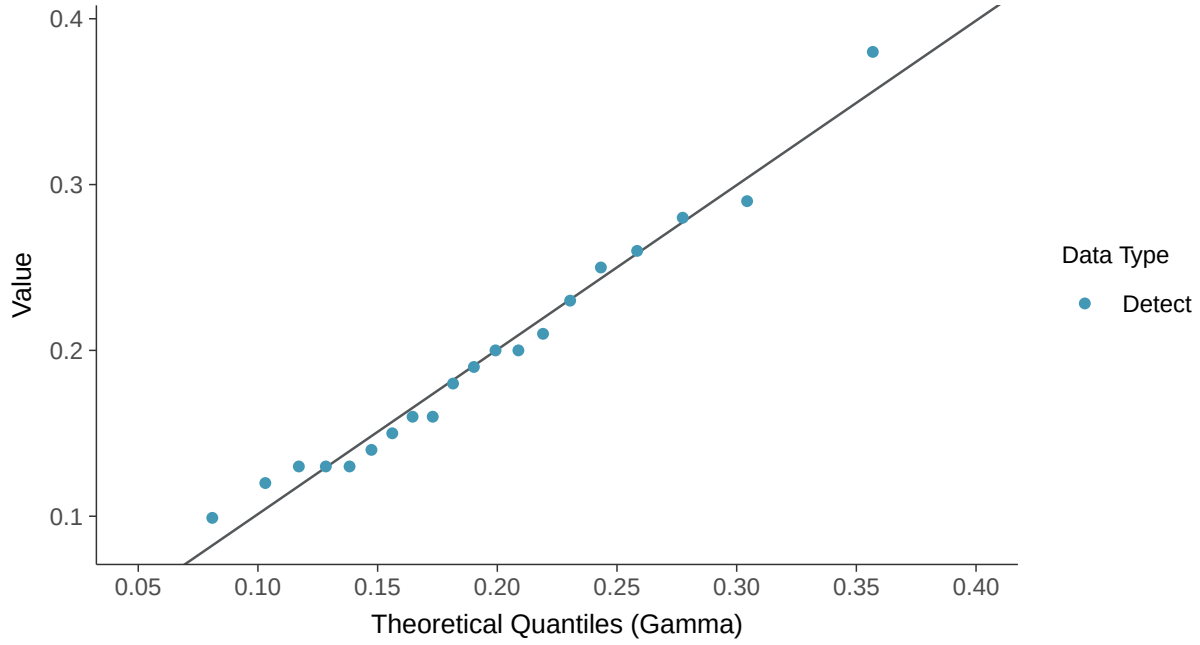
Lognormal Q-Q plot

Barium, MW-31 (mg/L)



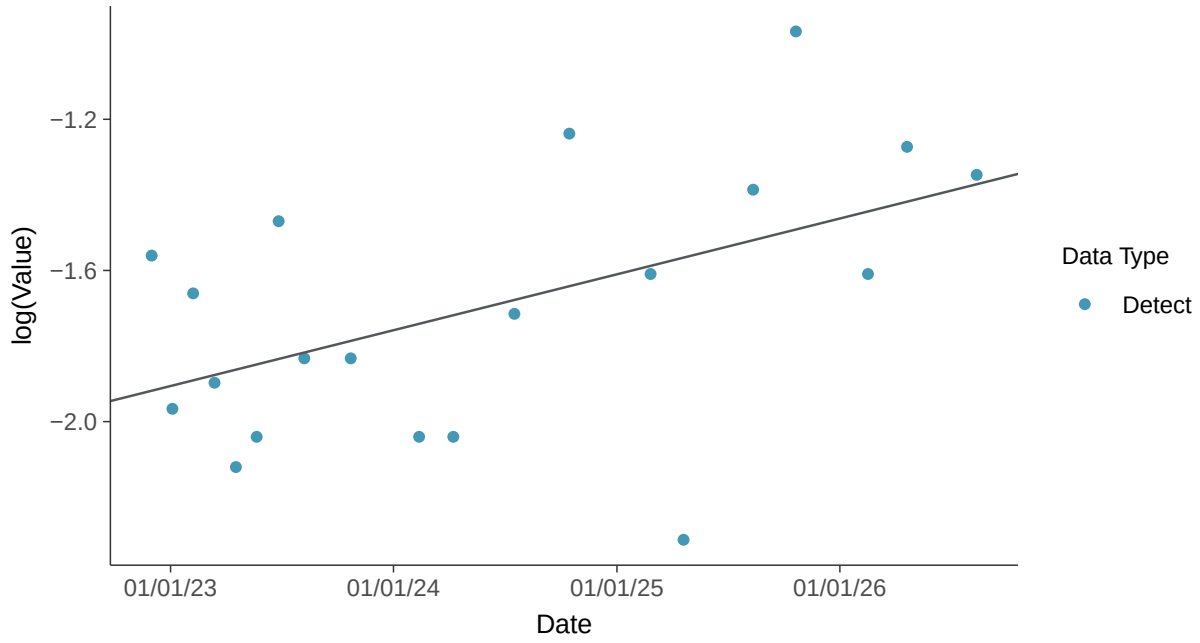
Gamma Q-Q plot

Barium, MW-31 (mg/L)



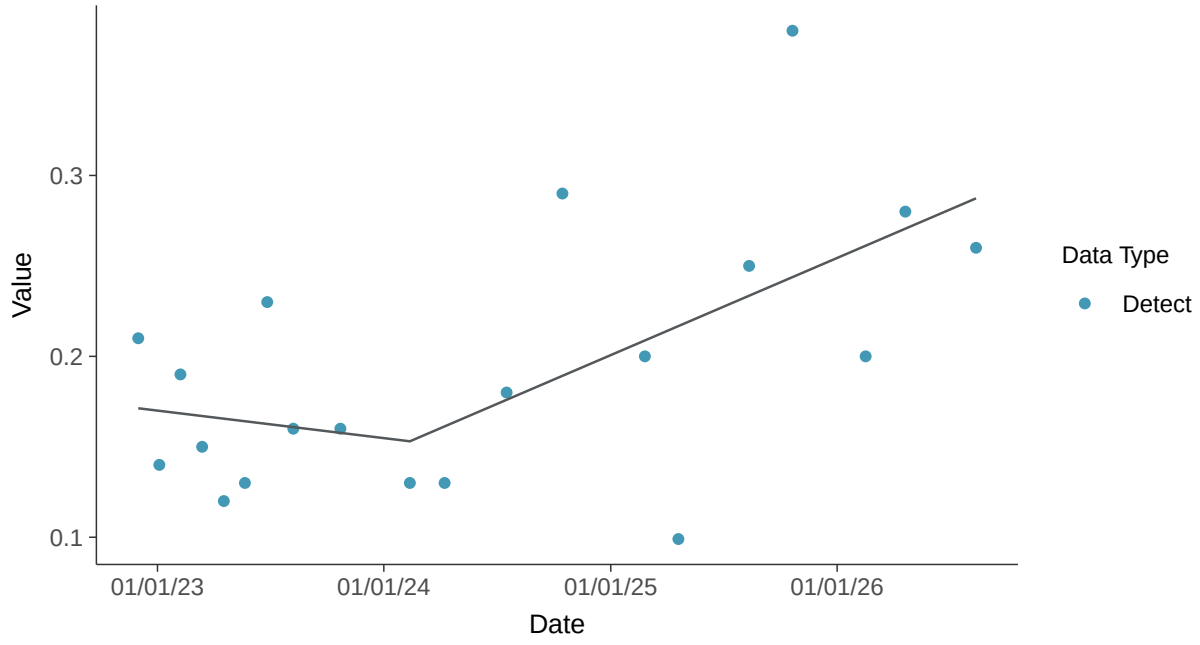
Trend Regression: Lognormal MLE

Barium, MW-31 (mg/L)



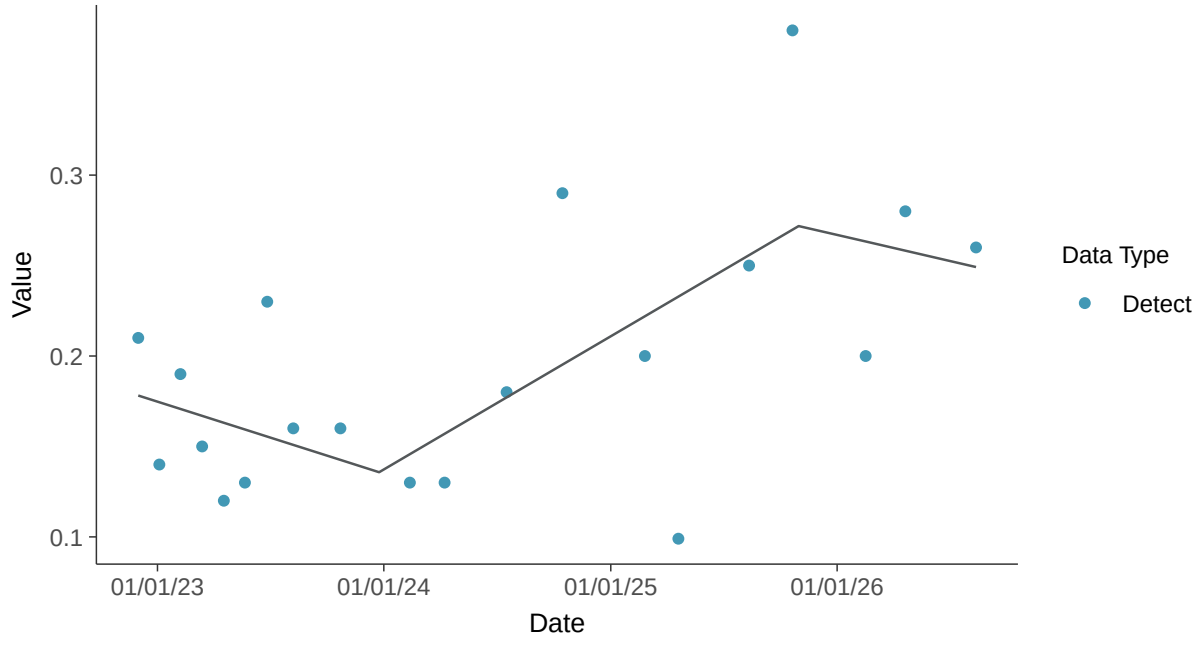
Trend Regression: Piecewise Linear-Linear

Barium, MW-31 (mg/L)



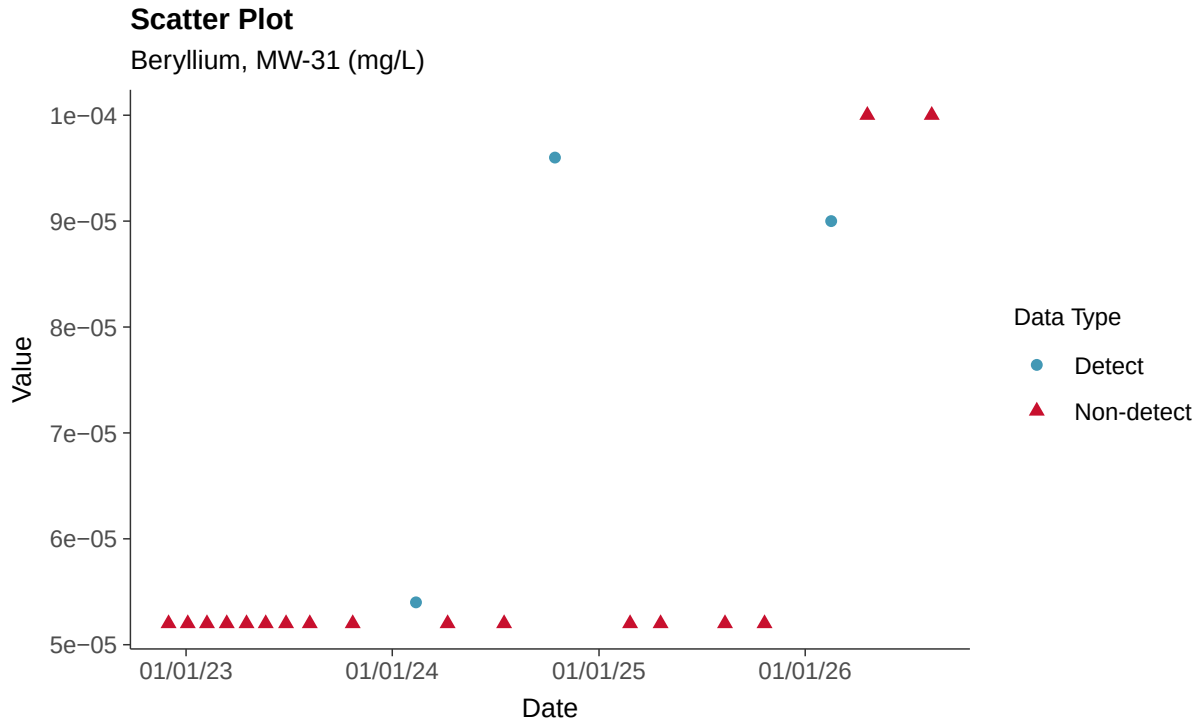
Trend Regression: Piecewise Linear-Linear-Linear

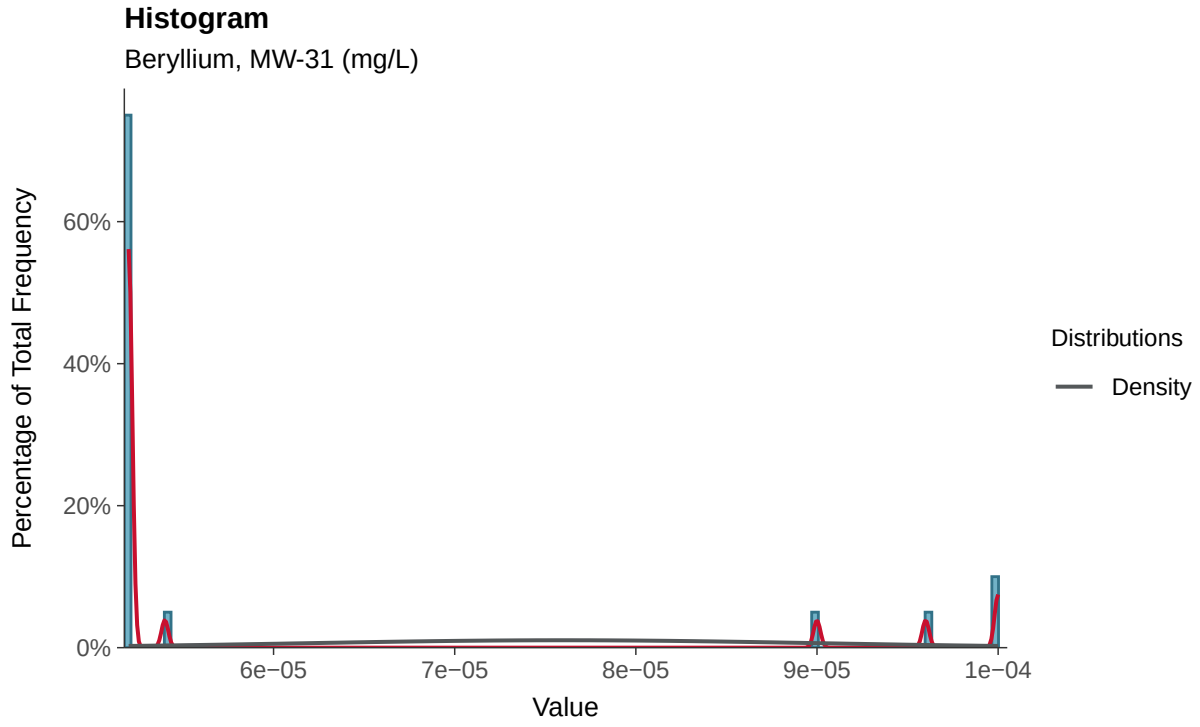
Barium, MW-31 (mg/L)



Appendix IV: Beryllium, MW-31

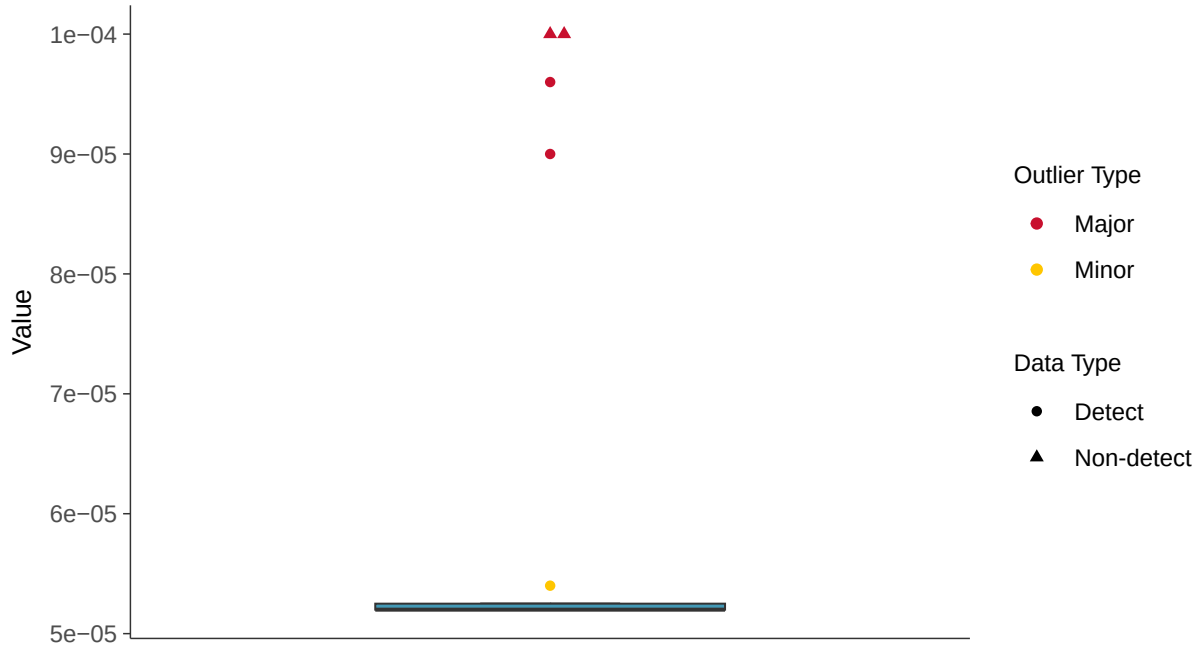
ID: 41_1_4_104





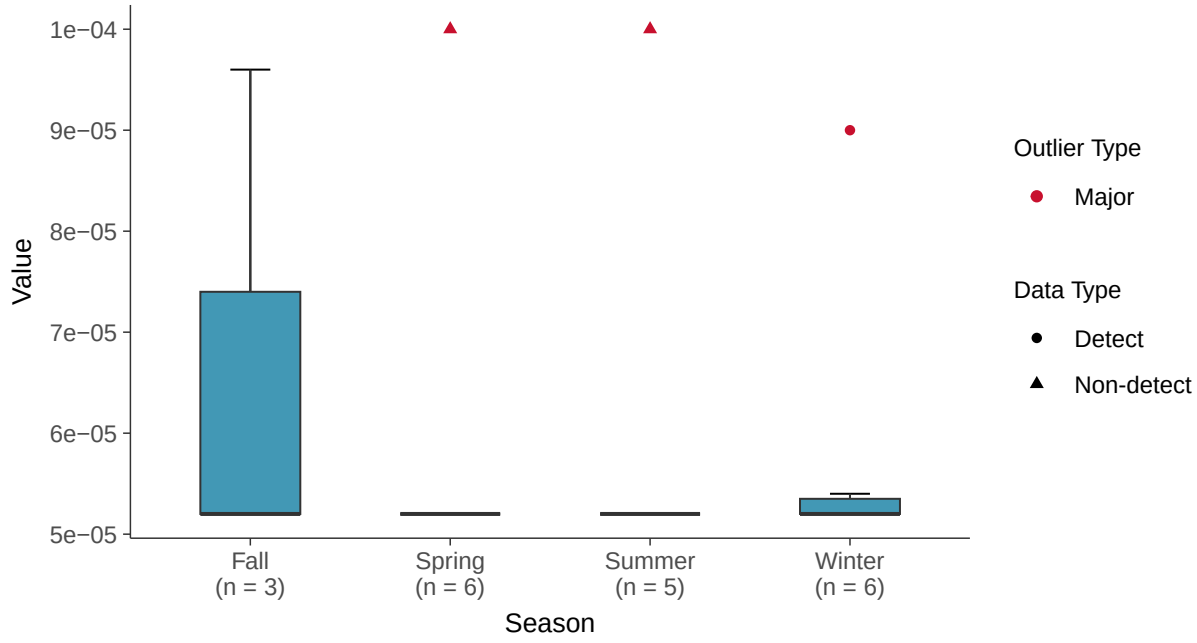
Boxplot

Beryllium, MW-31 (mg/L)



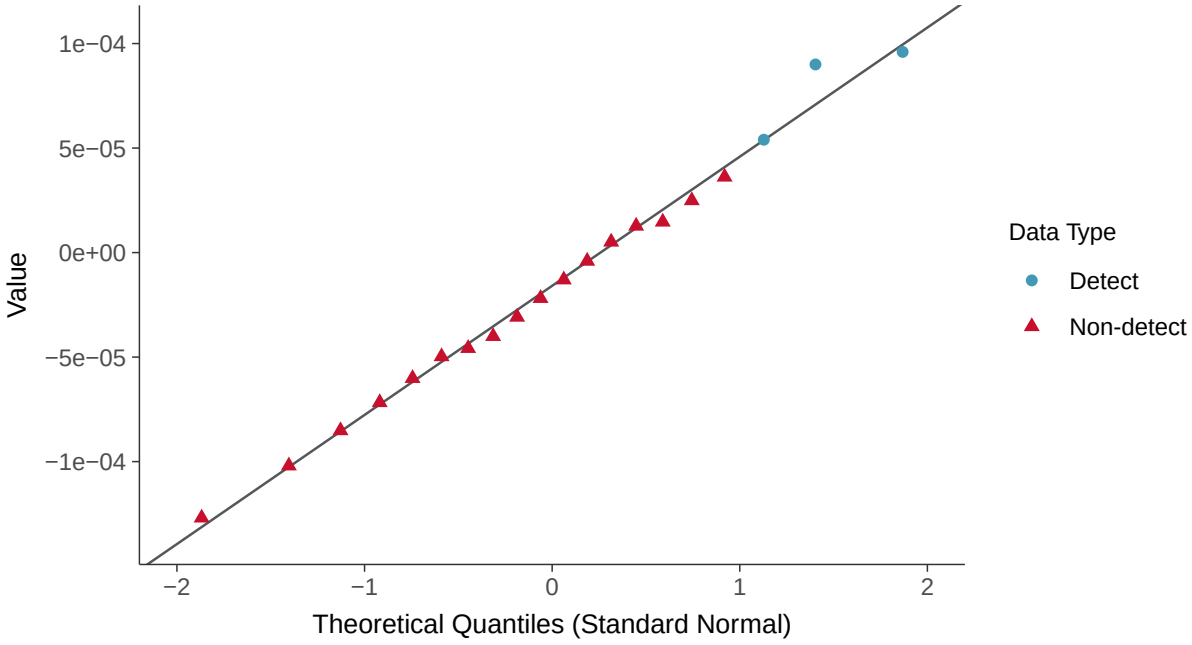
Boxplot by Season

Beryllium, MW-31 (mg/L)



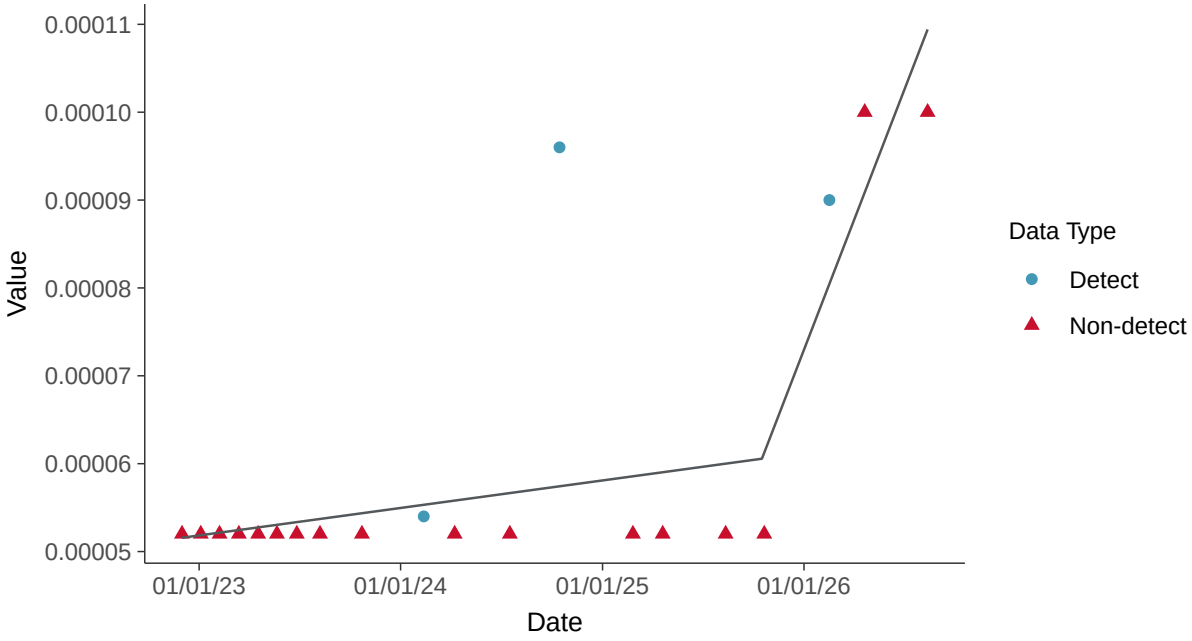
Normal Q-Q plot using ROS Imputed Estimates

Beryllium, MW-31 (mg/L)



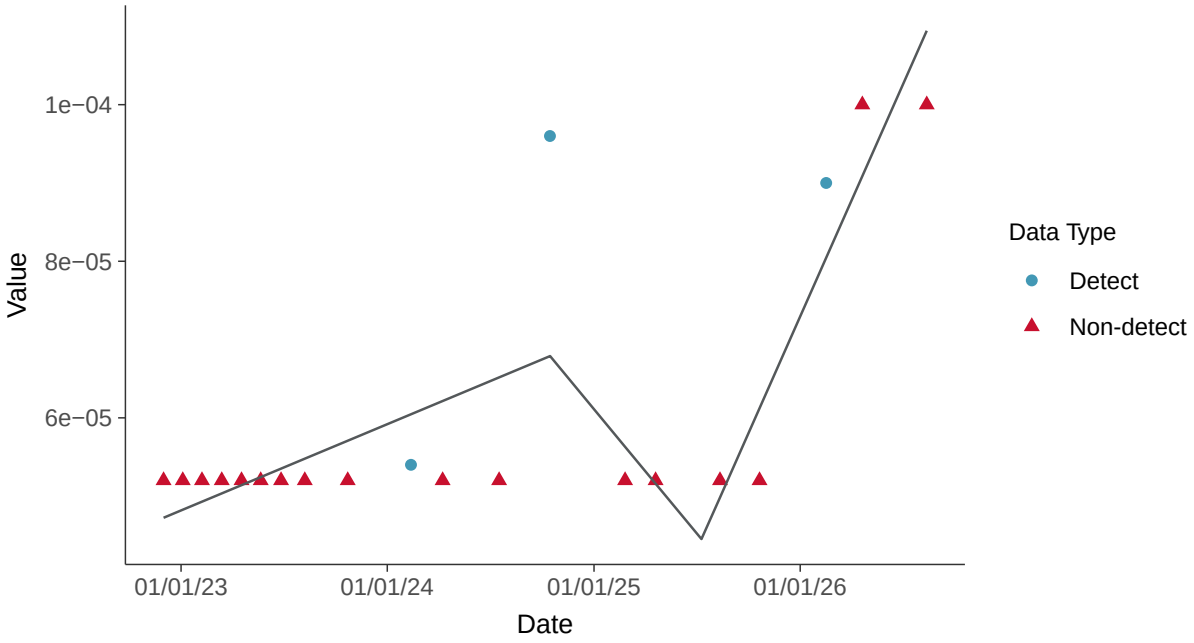
Trend Regression: Piecewise Linear-Linear

Beryllium, MW-31 (mg/L)



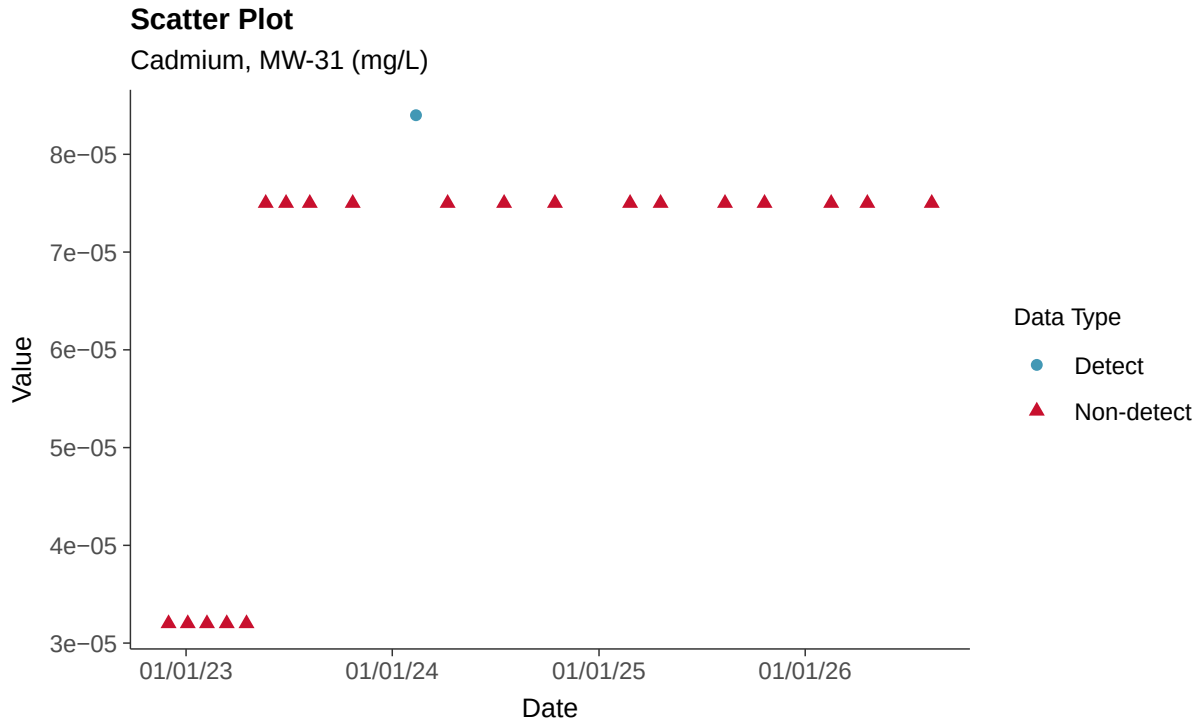
Trend Regression: Piecewise Linear-Linear-Linear

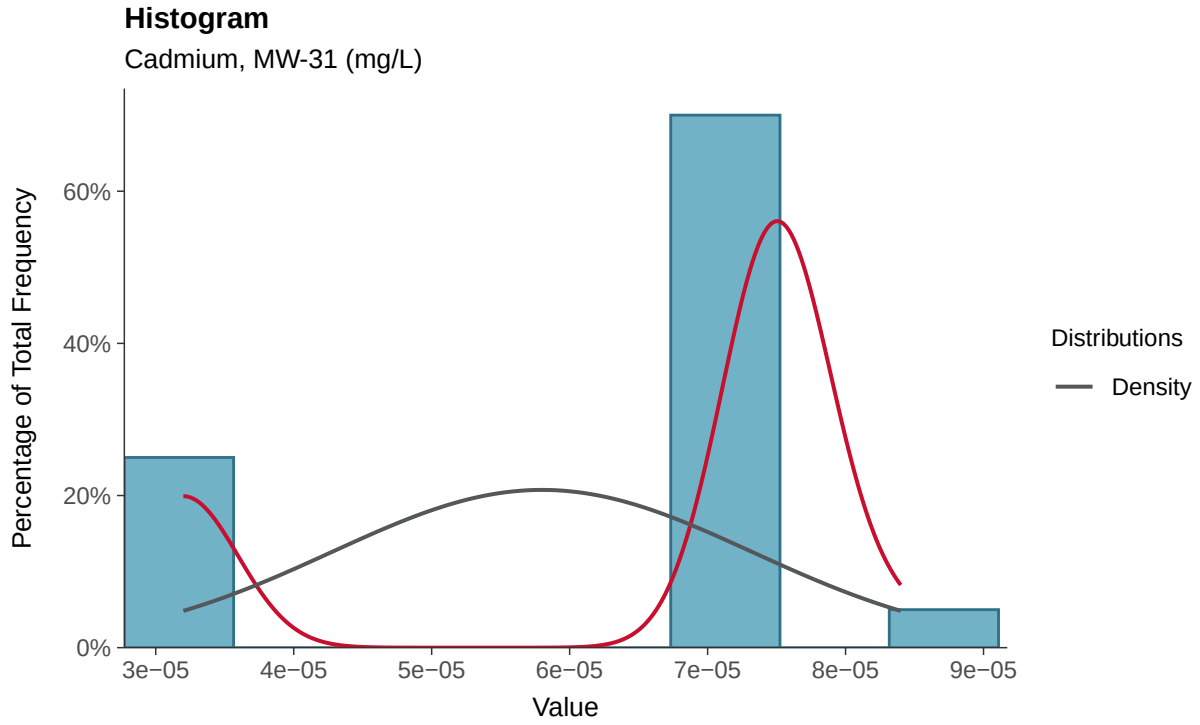
Beryllium, MW-31 (mg/L)



Appendix IV: Cadmium, MW-31

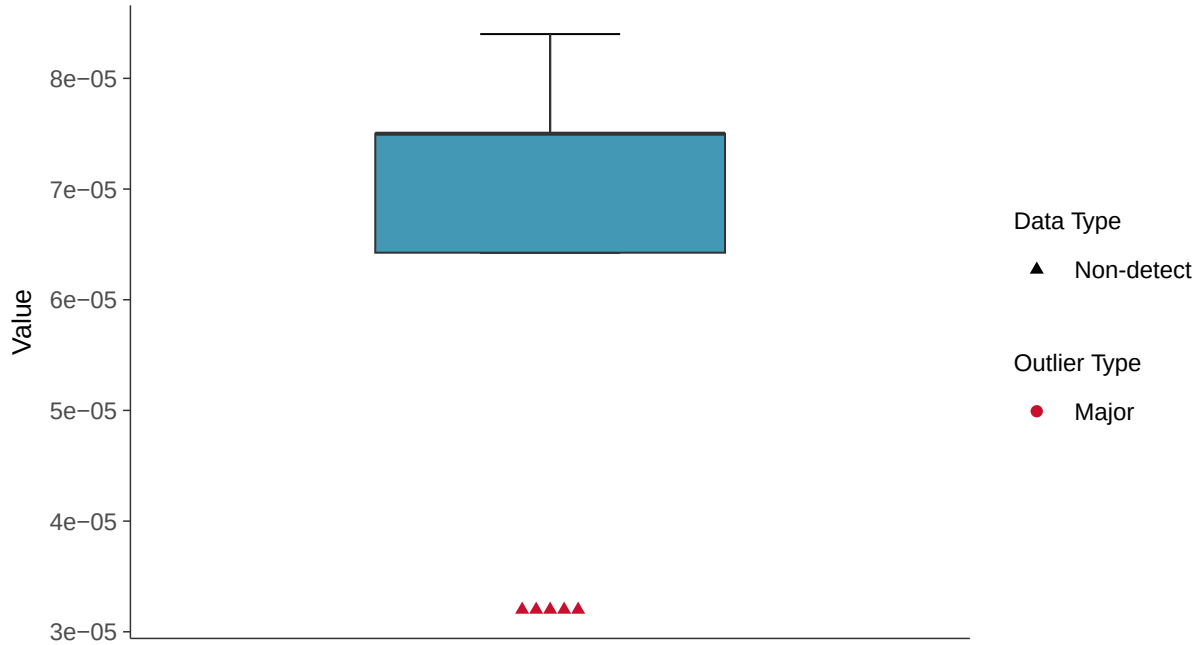
ID: 41_1_4_106





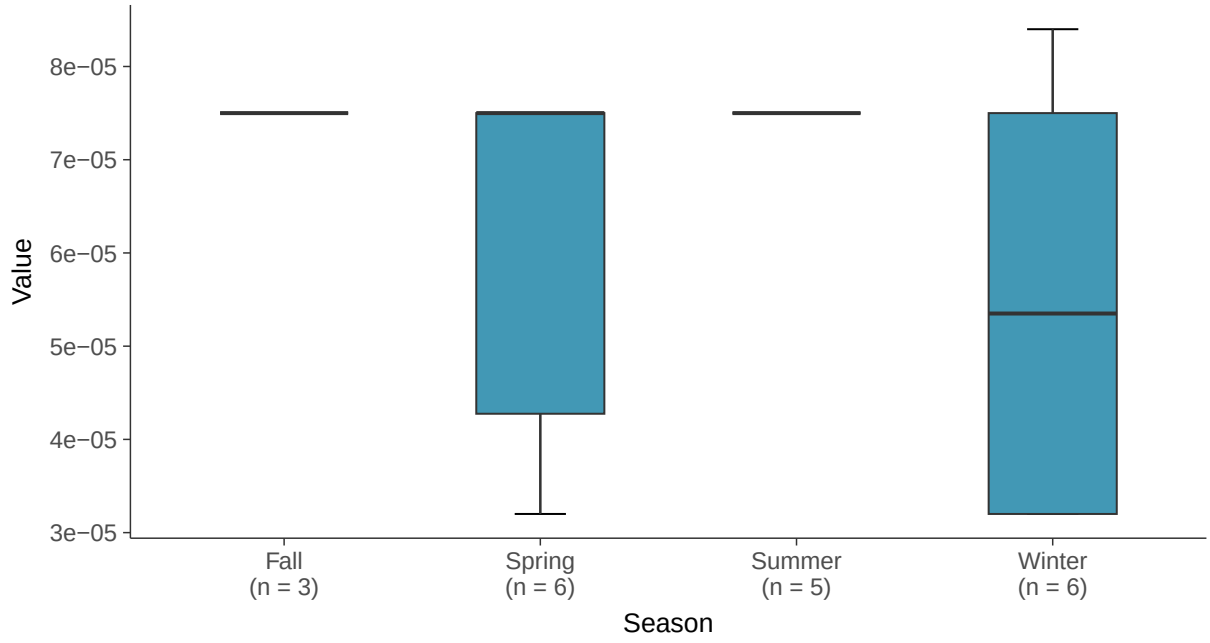
Boxplot

Cadmium, MW-31 (mg/L)



Boxplot by Season

Cadmium, MW-31 (mg/L)

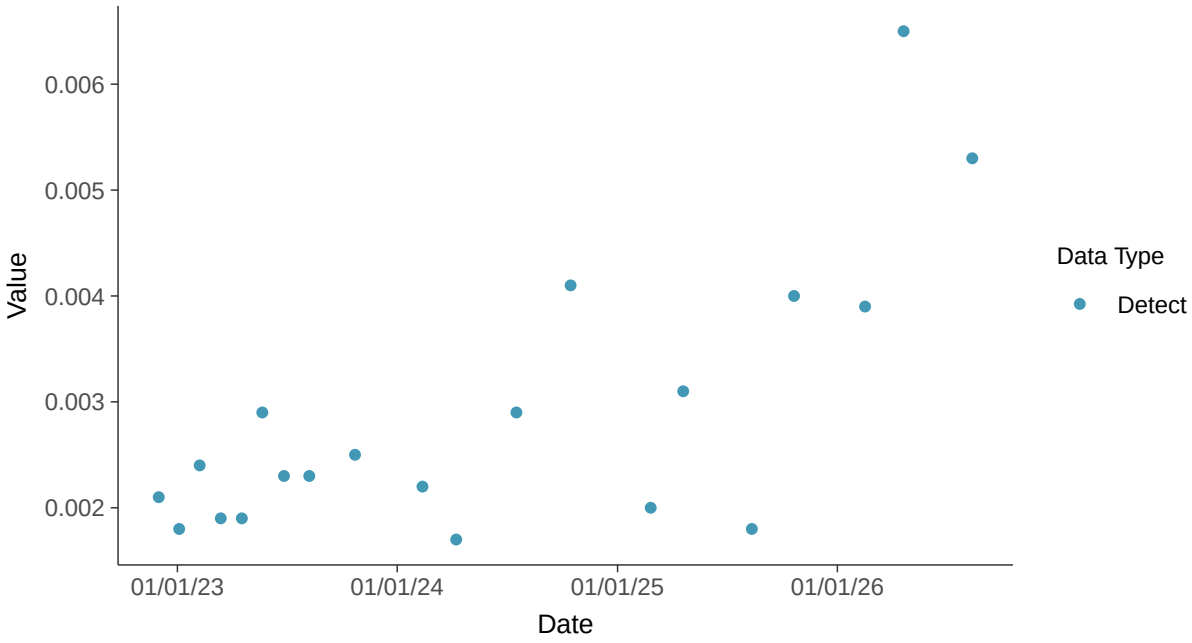


Appendix IV: Chromium, Total, MW-31

ID: 41_1_4_109

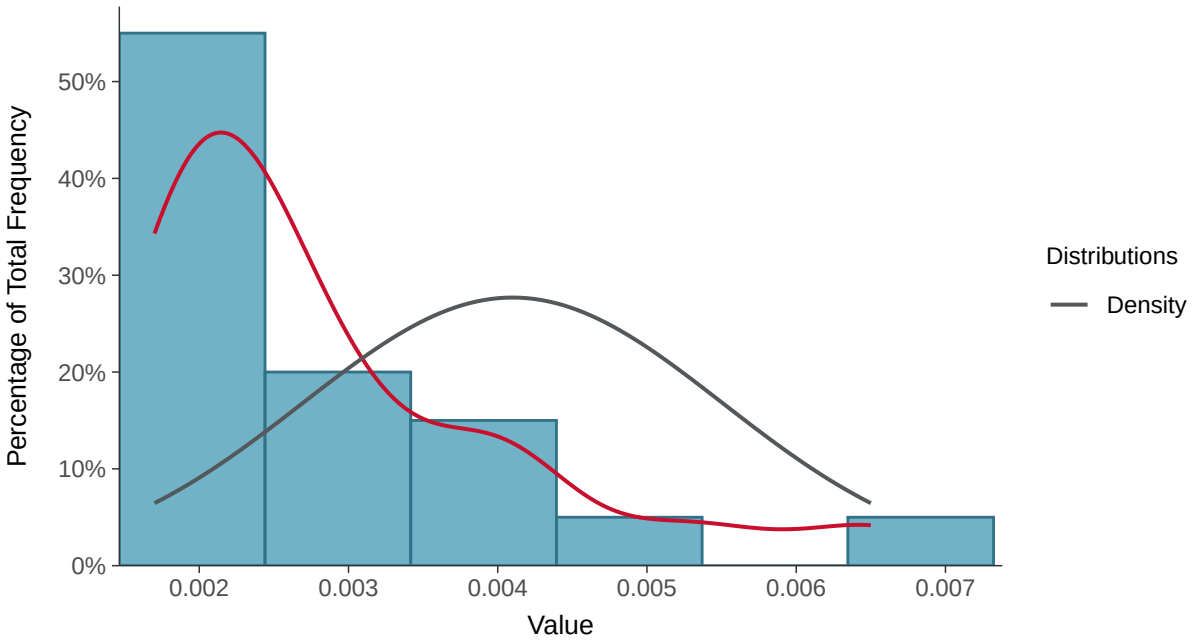
Scatter Plot

Chromium, Total, MW-31 (mg/L)



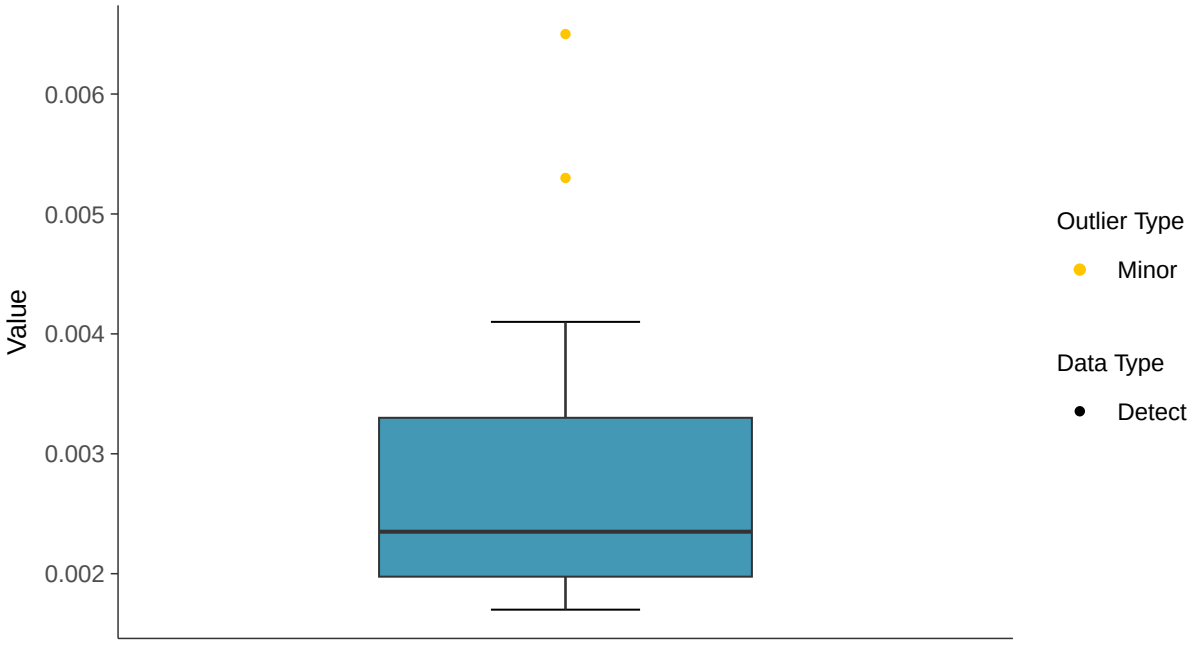
Histogram

Chromium, Total, MW-31 (mg/L)



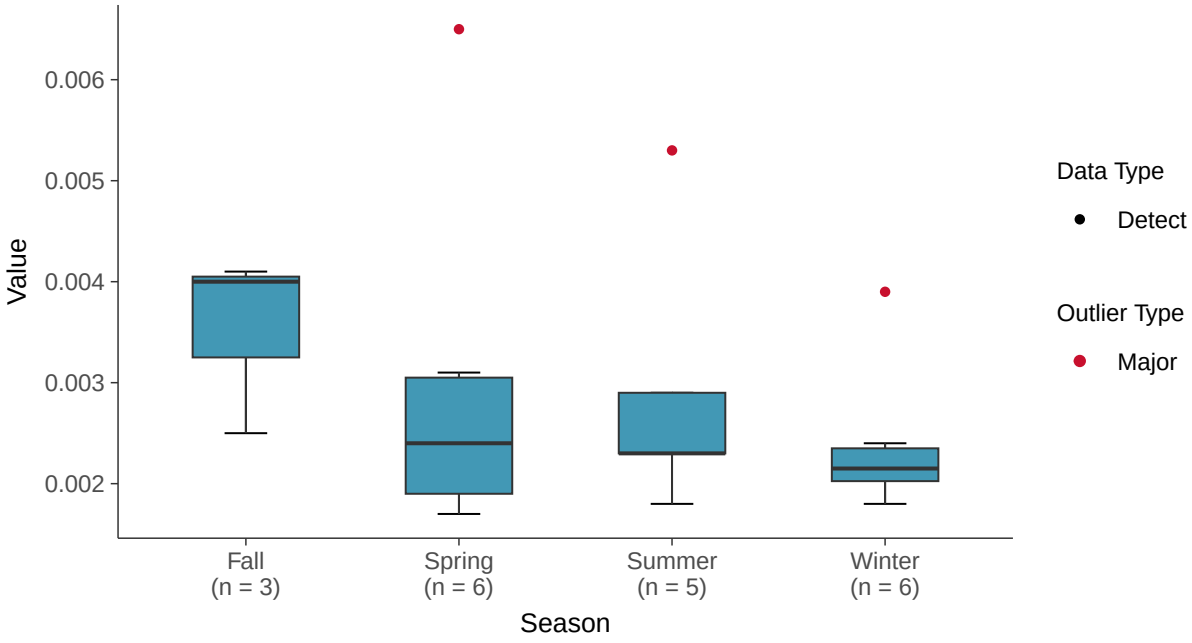
Boxplot

Chromium, Total, MW-31 (mg/L)



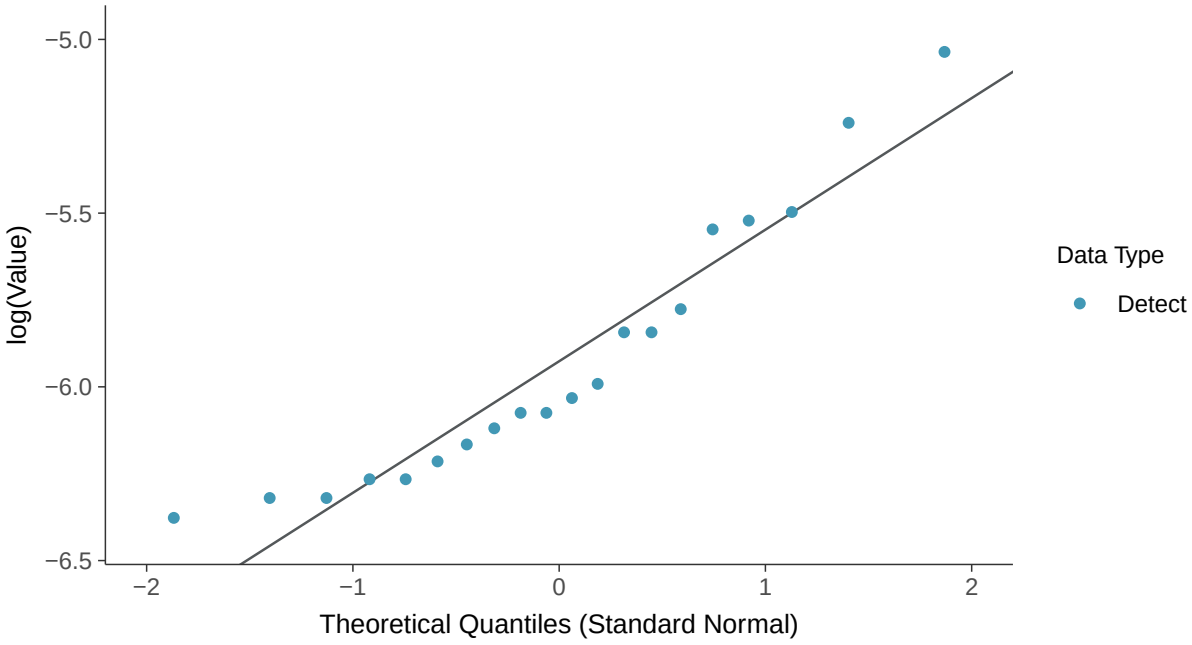
Boxplot by Season

Chromium, Total, MW-31 (mg/L)



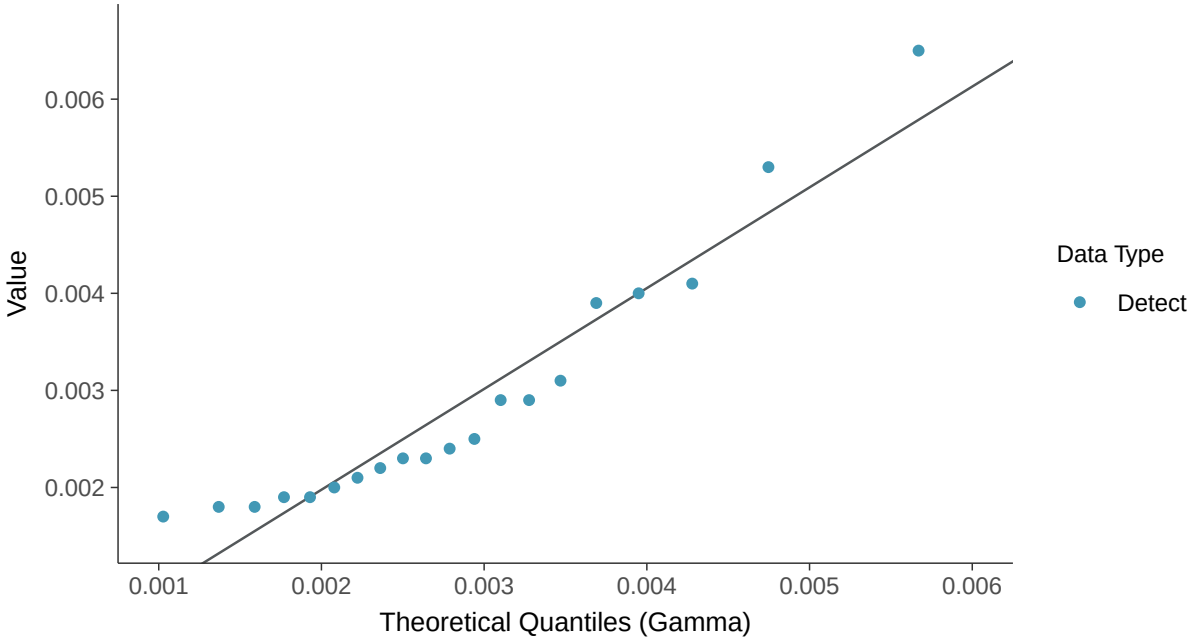
Lognormal Q-Q plot

Chromium, Total, MW-31 (mg/L)



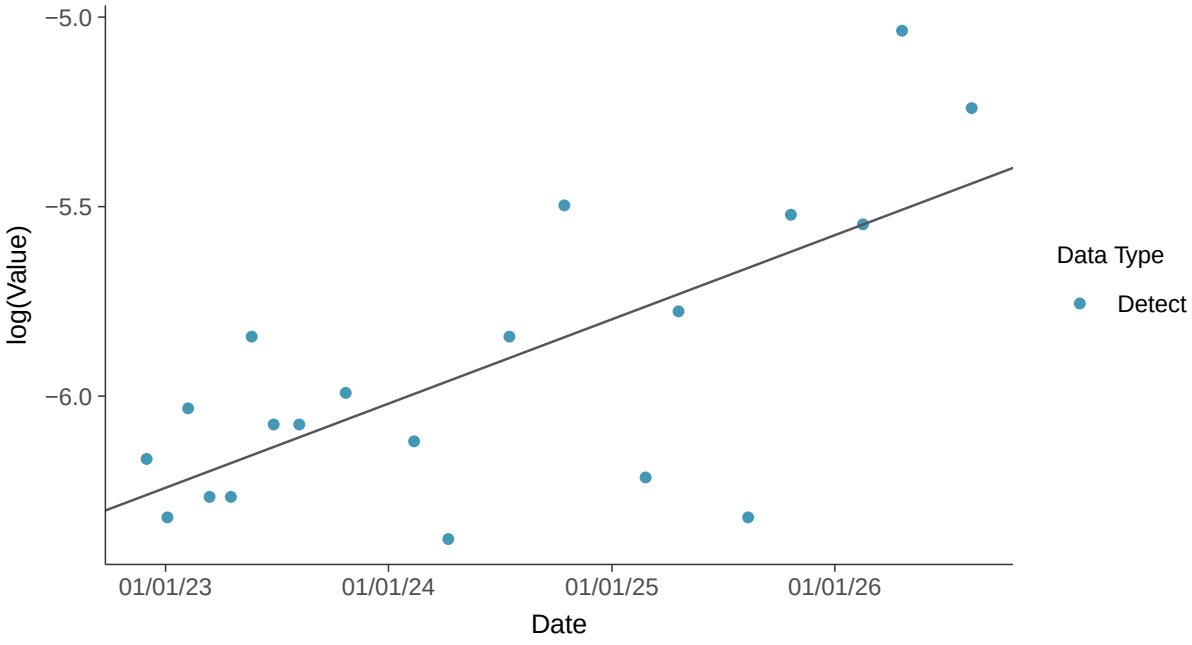
Gamma Q-Q plot

Chromium, Total, MW-31 (mg/L)



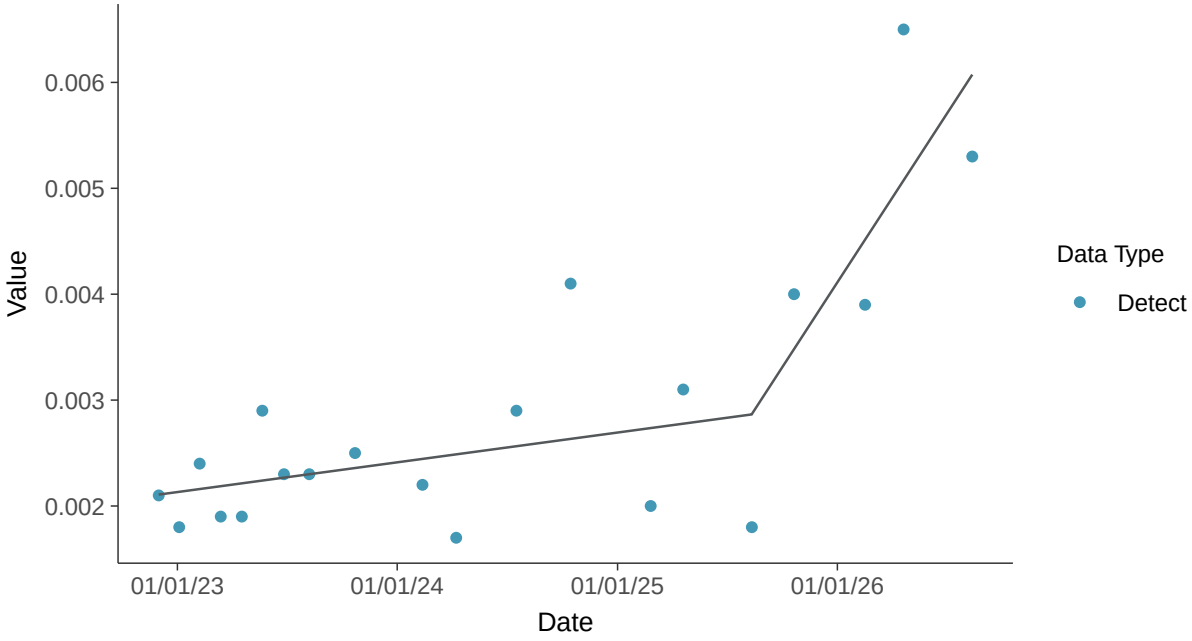
Trend Regression: Lognormal MLE

Chromium, Total, MW-31 (mg/L)



Trend Regression: Piecewise Linear-Linear

Chromium, Total, MW-31 (mg/L)

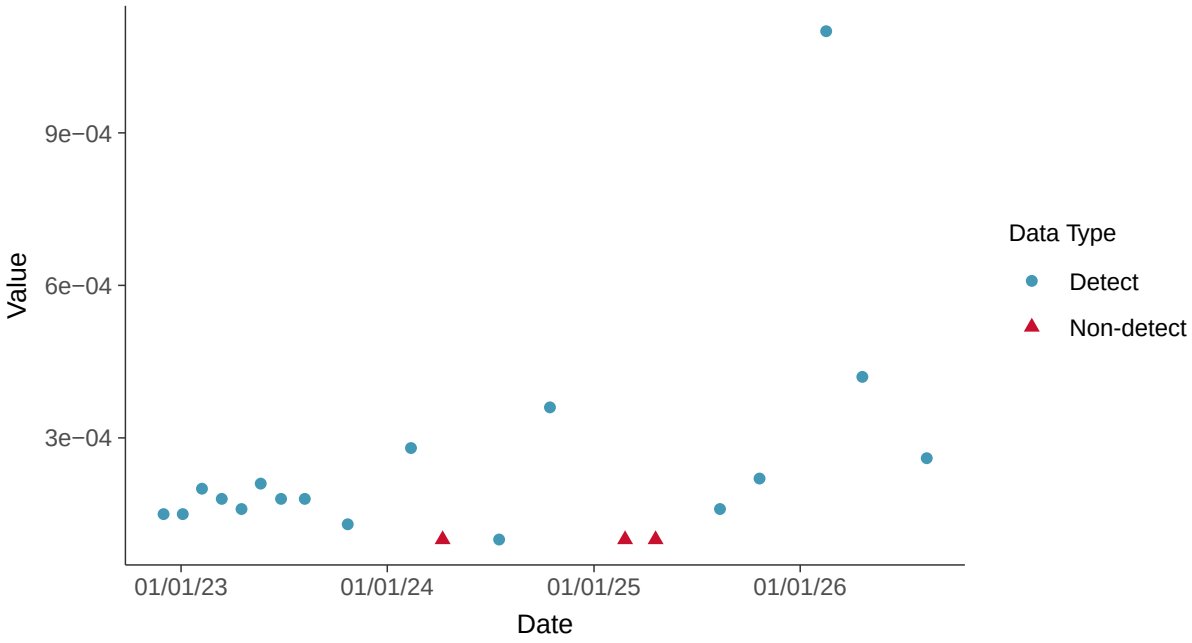


Appendix IV: Cobalt, MW-31

ID: 41_1_4_110

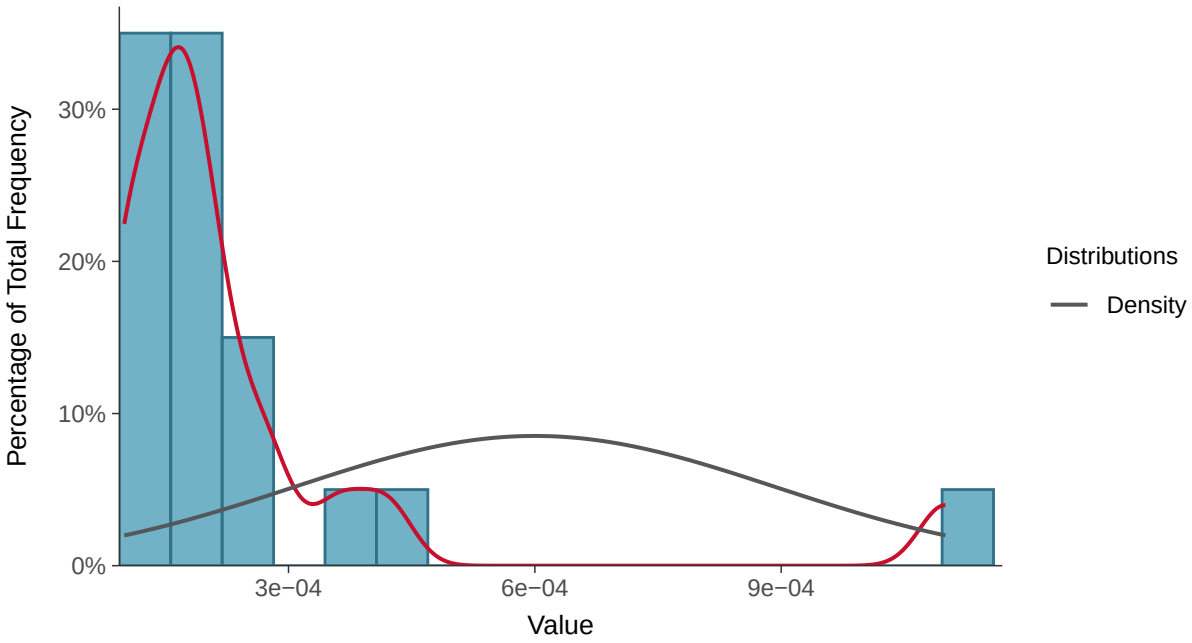
Scatter Plot

Cobalt, MW-31 (mg/L)



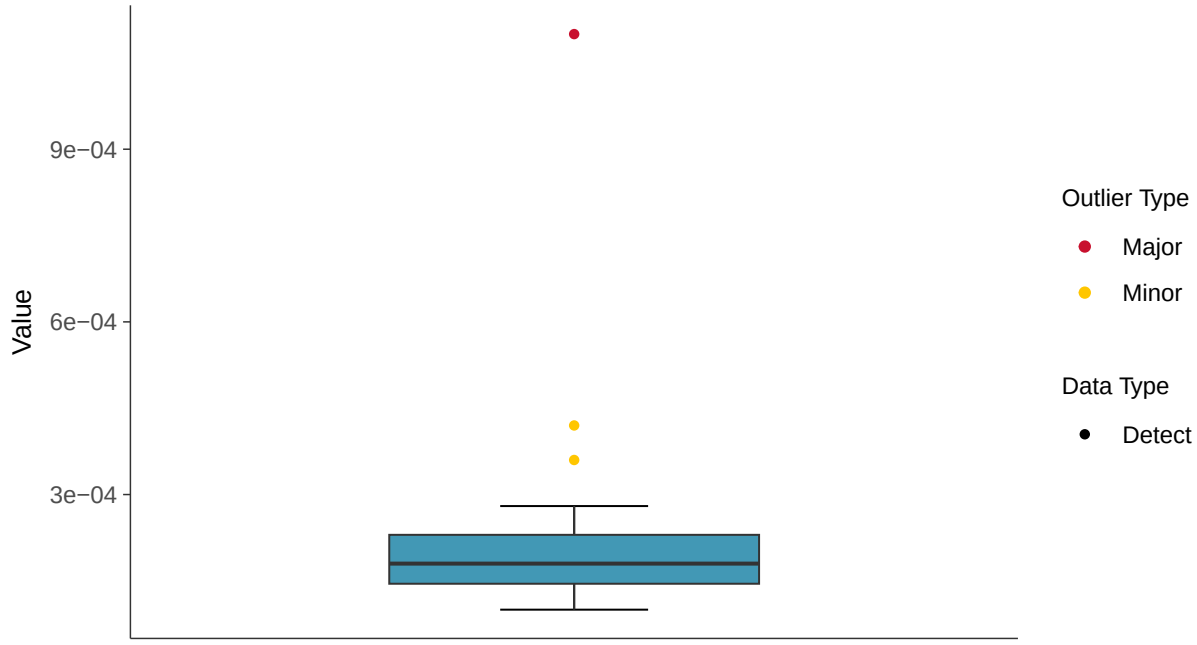
Histogram

Cobalt, MW-31 (mg/L)



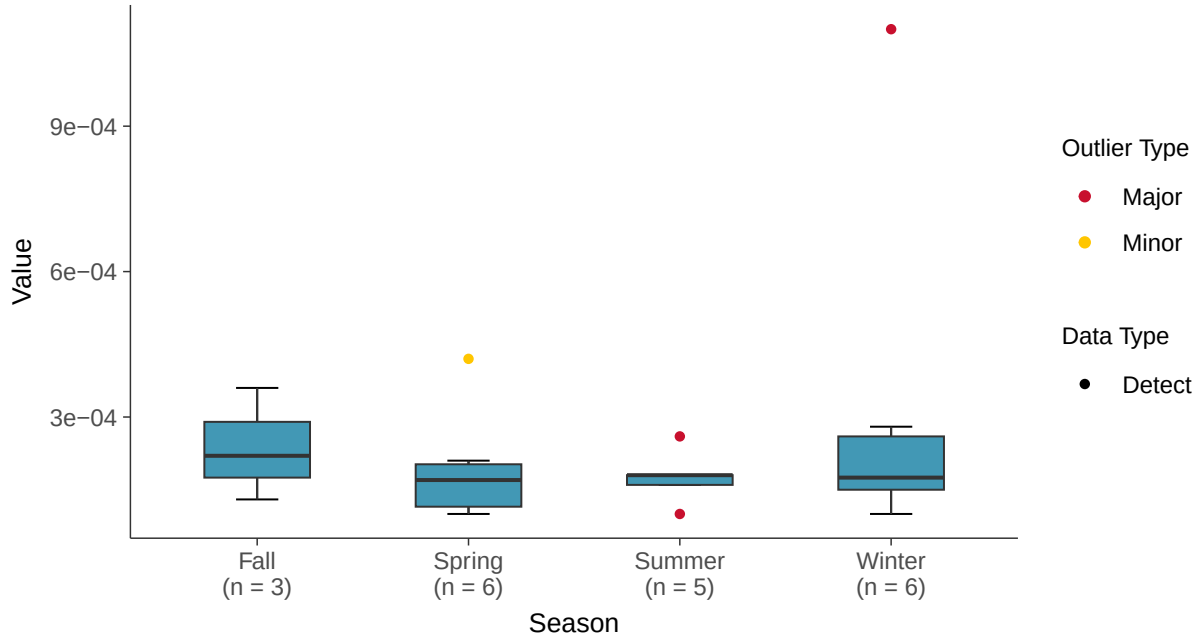
Boxplot

Cobalt, MW-31 (mg/L)



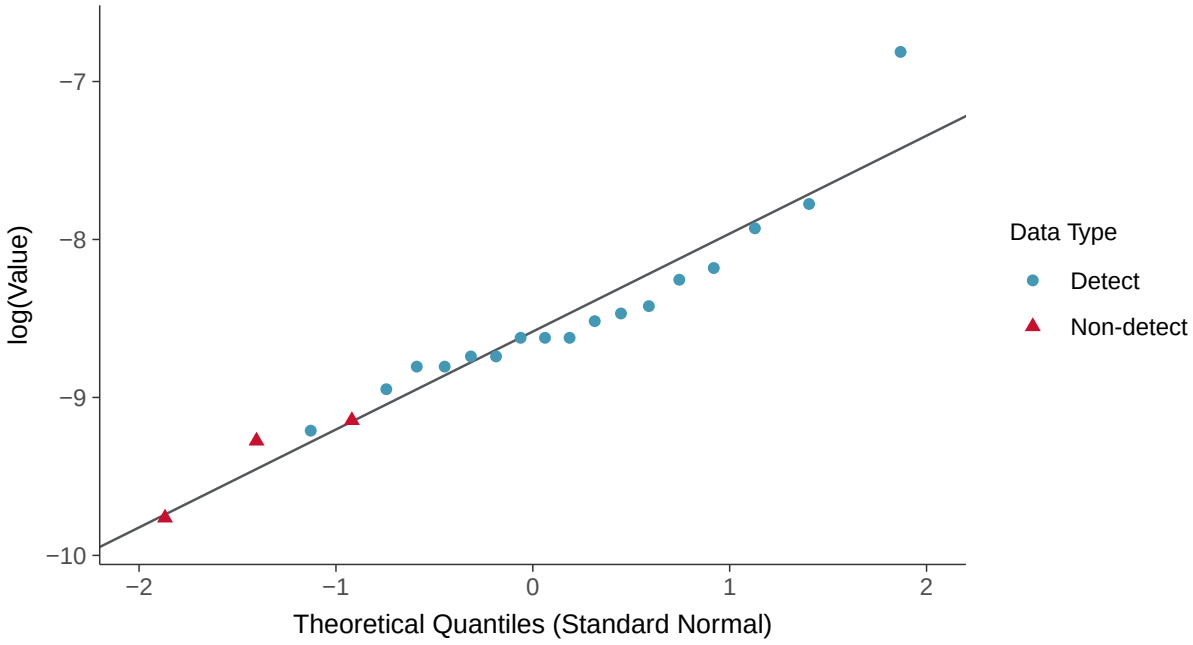
Boxplot by Season

Cobalt, MW-31 (mg/L)



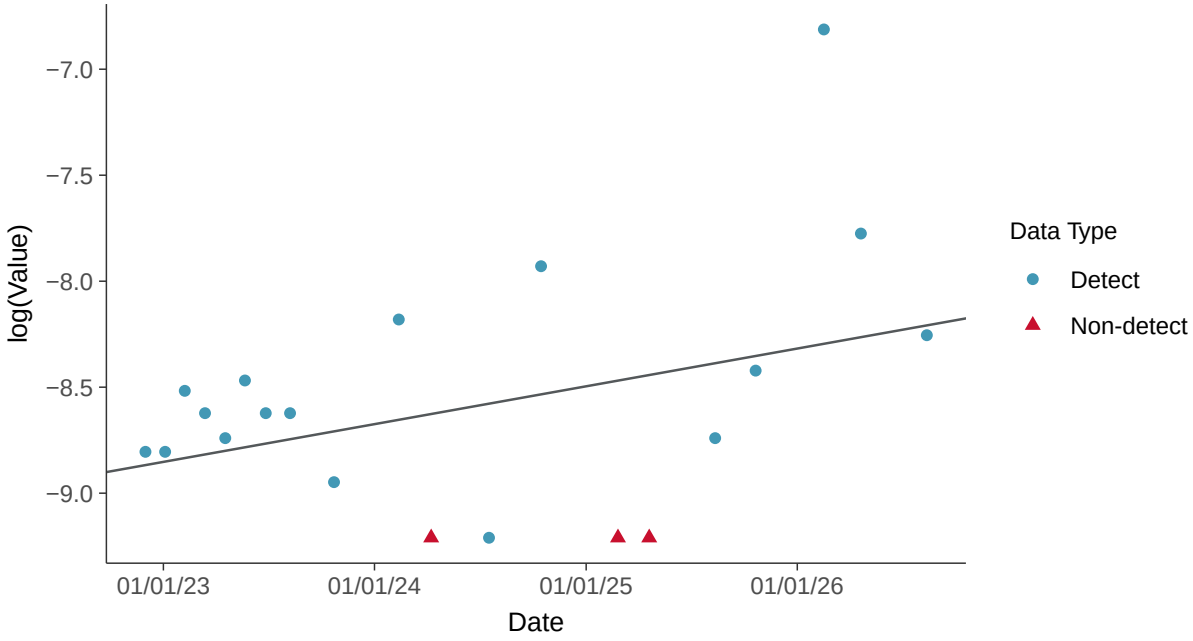
Lognormal Q-Q plot using ROS Imputed Estimates

Cobalt, MW-31 (mg/L)



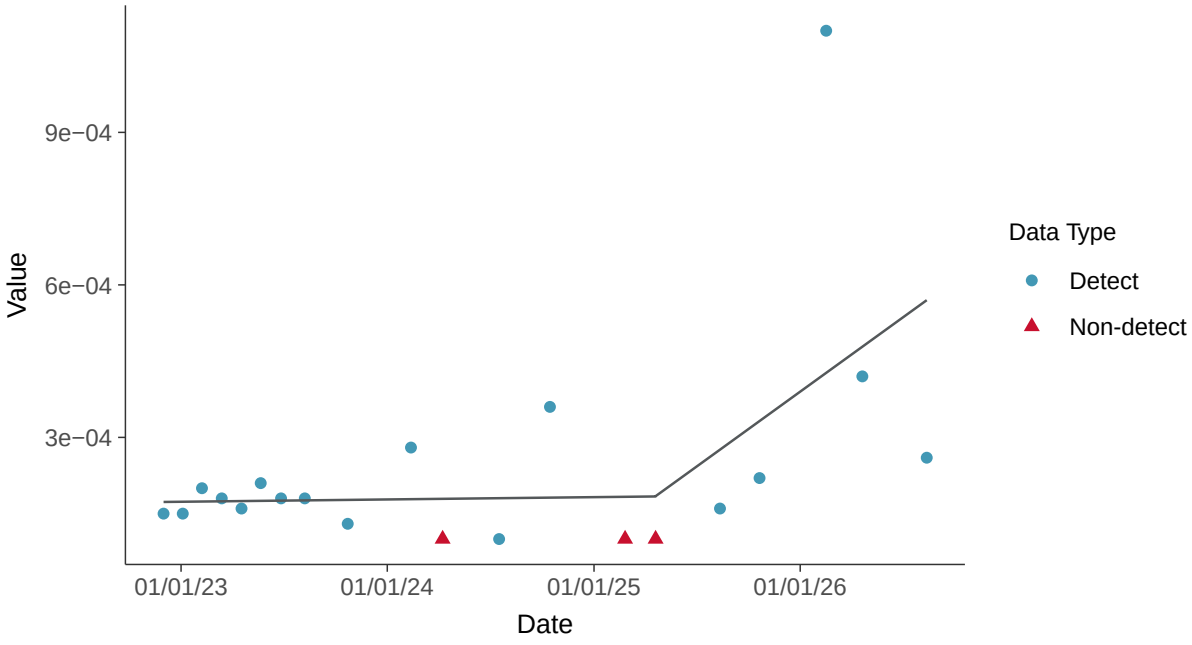
Trend Regression: Lognormal MLE

Cobalt, MW-31 (mg/L)



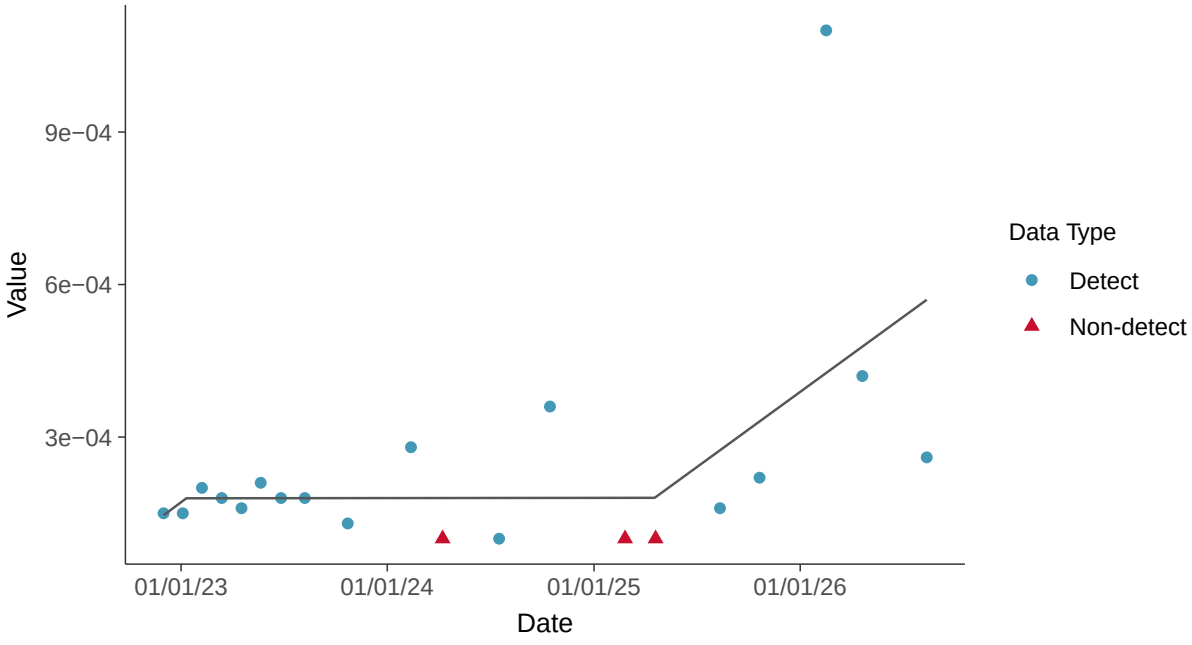
Trend Regression: Piecewise Linear-Linear

Cobalt, MW-31 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Cobalt, MW-31 (mg/L)

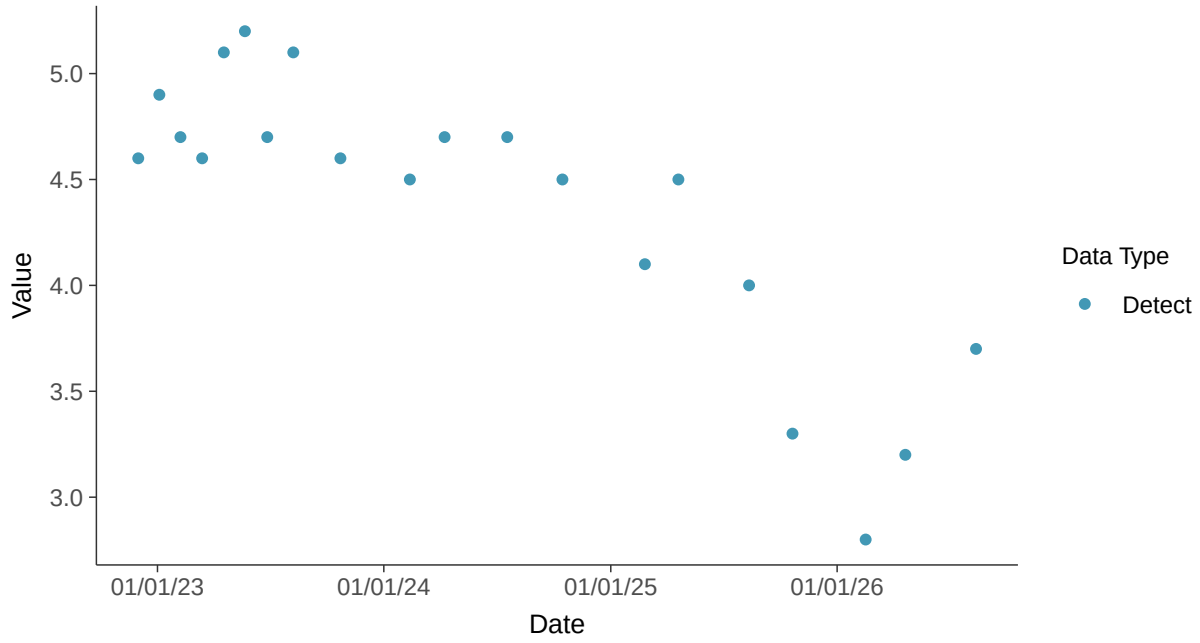


Appendix IV: Fluoride (App IV), MW-31

ID: 41_1_4_113

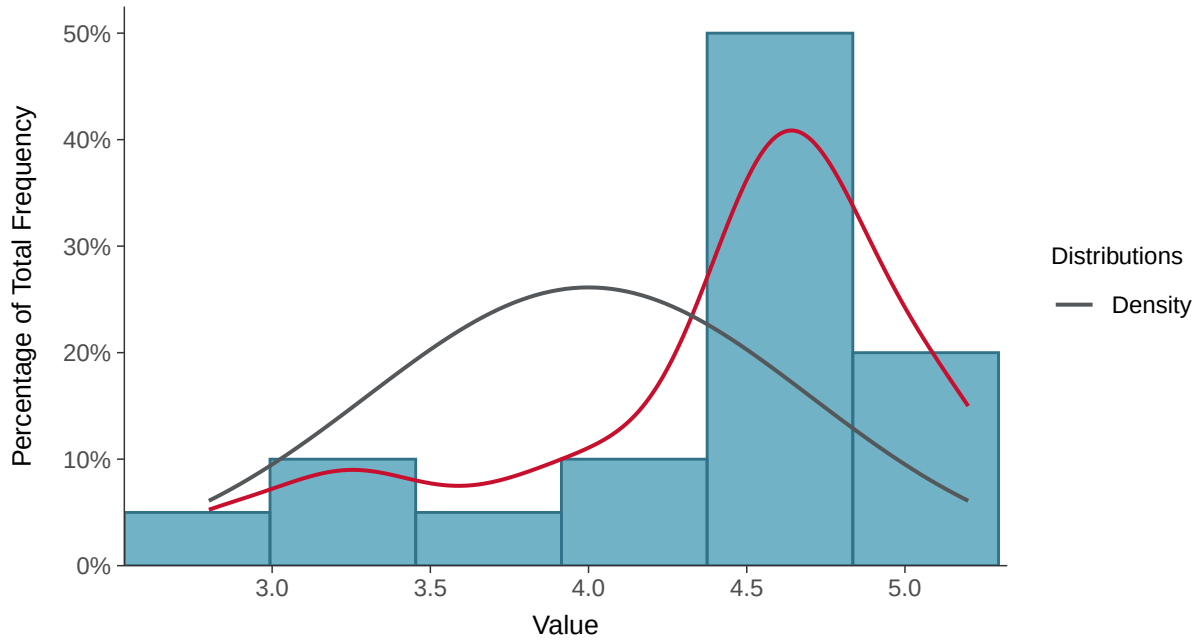
Scatter Plot

Fluoride (App IV), MW-31 (mg/L)



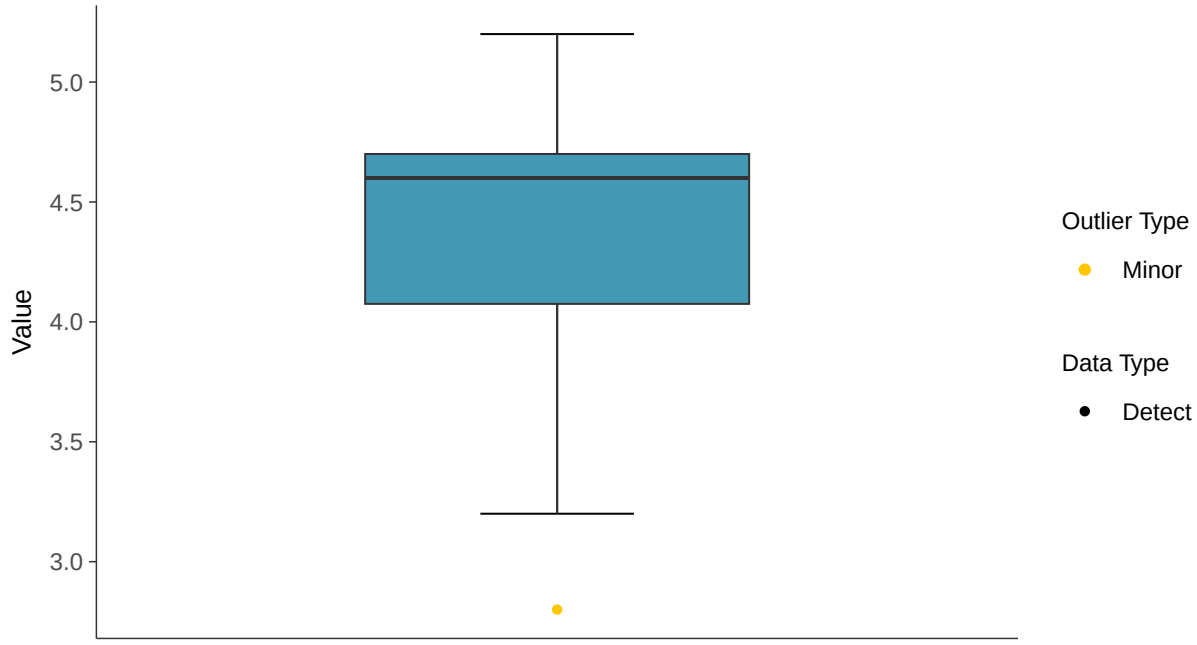
Histogram

Fluoride (App IV), MW-31 (mg/L)



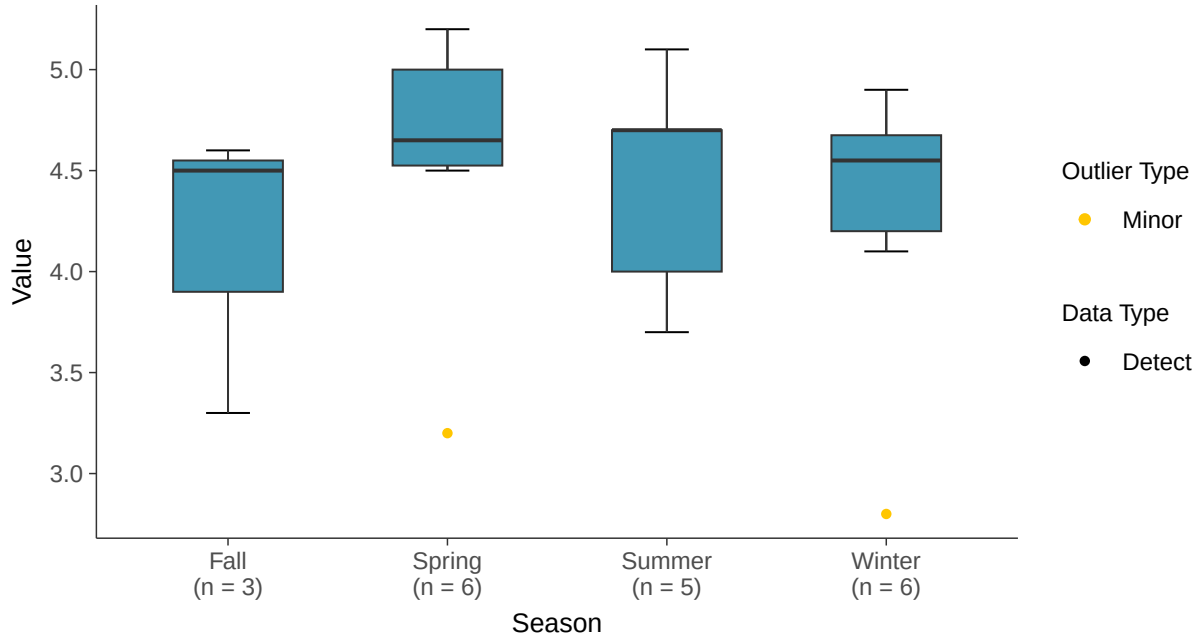
Boxplot

Fluoride (App IV), MW-31 (mg/L)



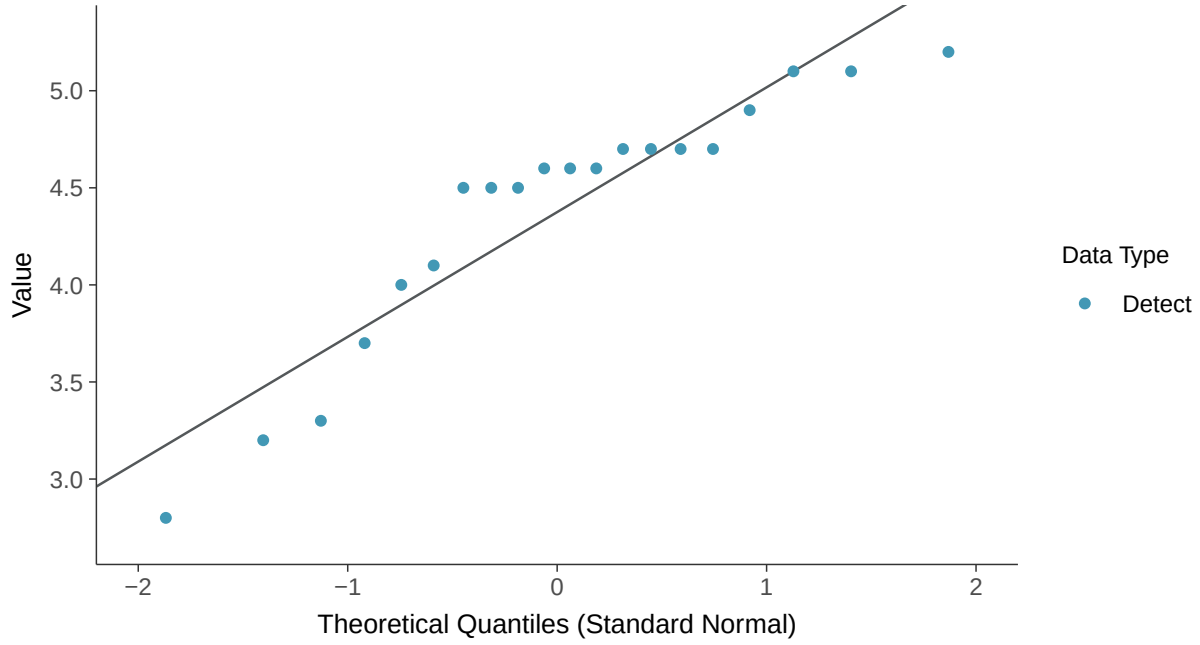
Boxplot by Season

Fluoride (App IV), MW-31 (mg/L)



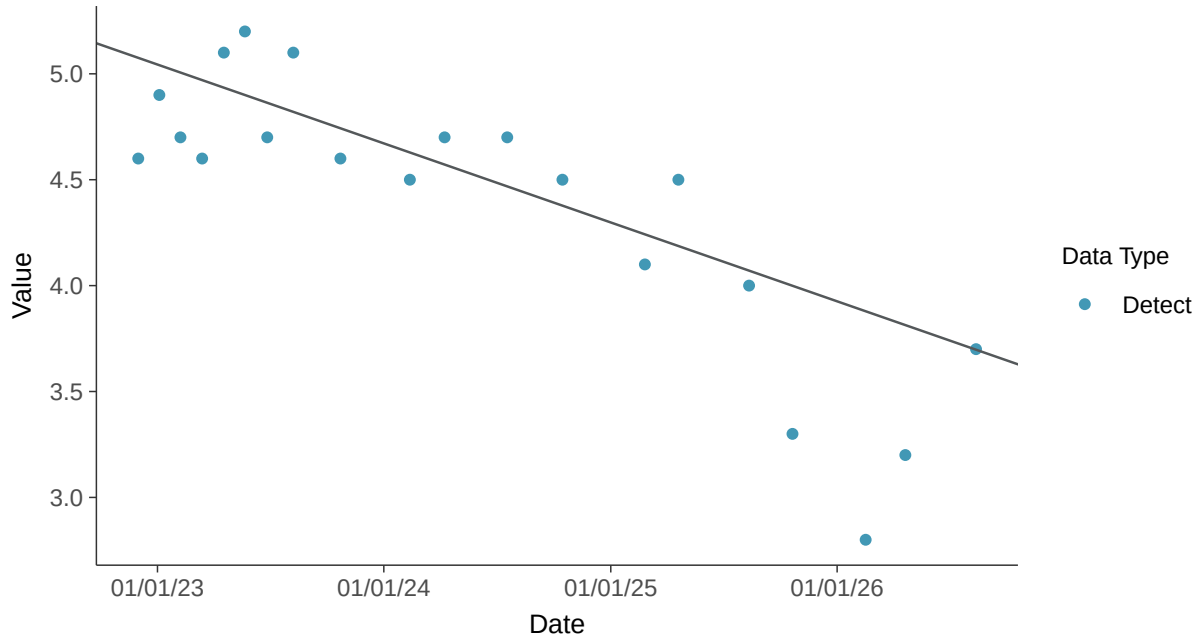
Normal Q-Q plot

Fluoride (App IV), MW-31 (mg/L)



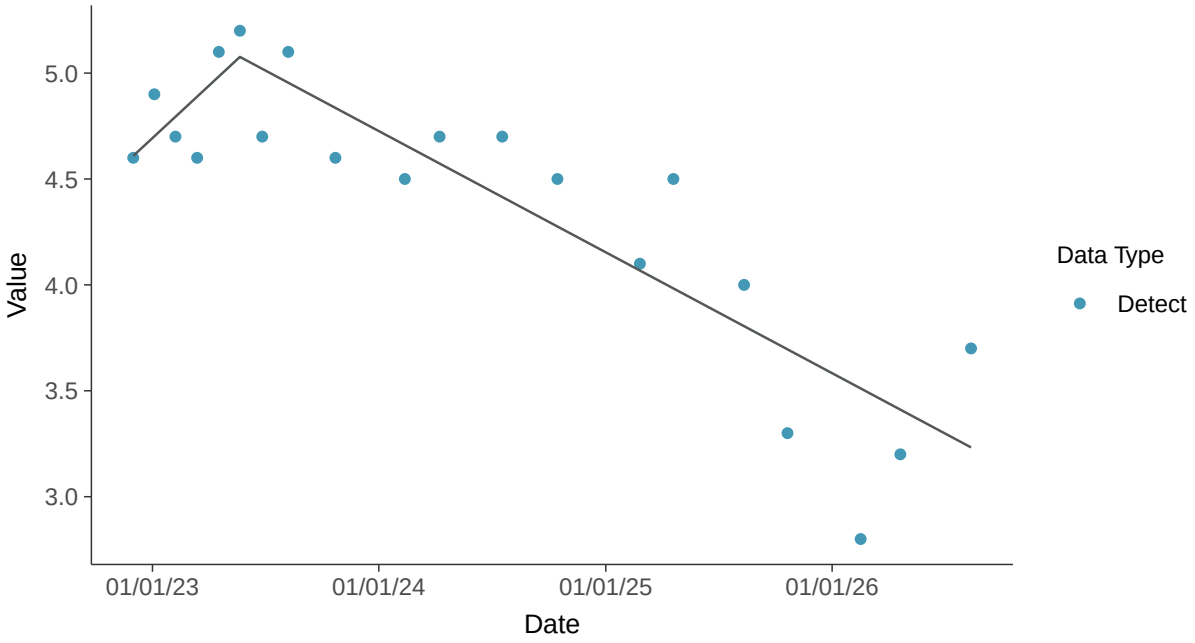
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Fluoride (App IV), MW-31 (mg/L)



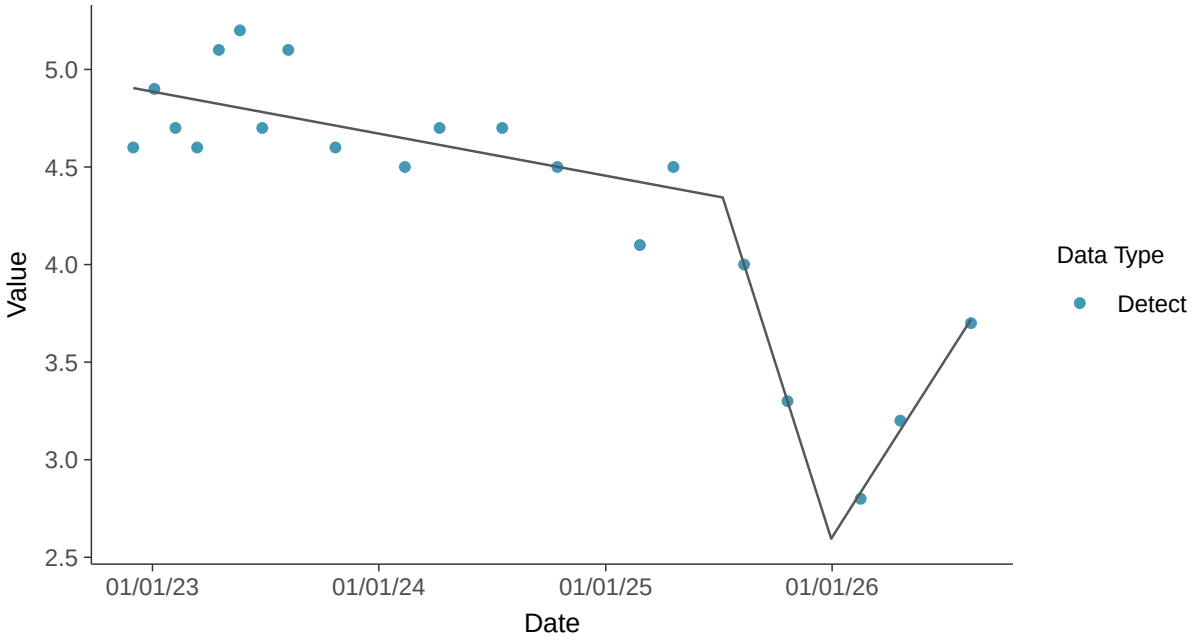
Trend Regression: Piecewise Linear-Linear

Fluoride (App IV), MW-31 (mg/L)



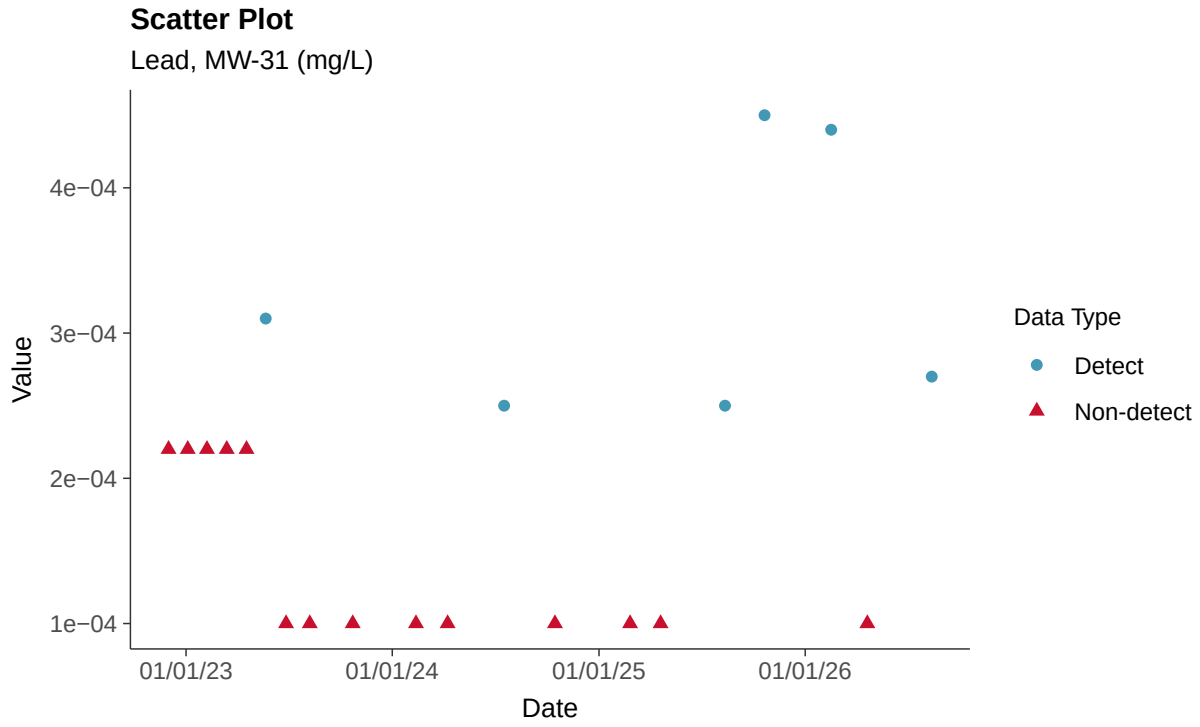
Trend Regression: Piecewise Linear-Linear-Linear

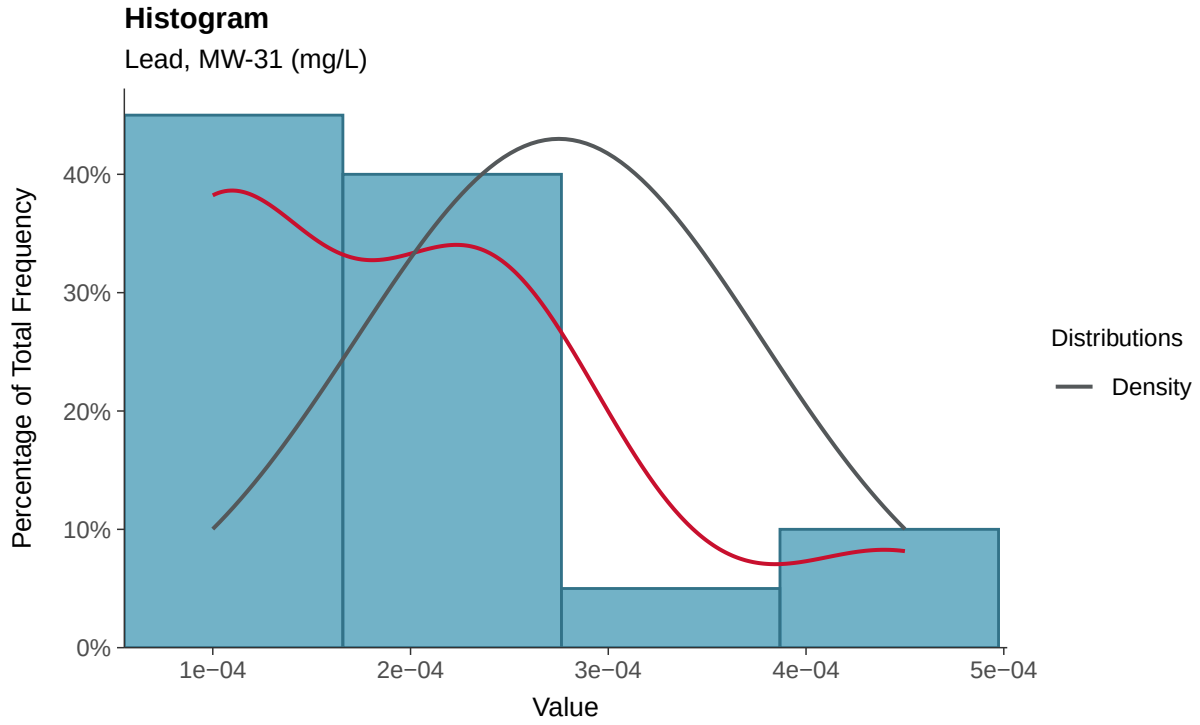
Fluoride (App IV), MW-31 (mg/L)



Appendix IV: Lead, MW-31

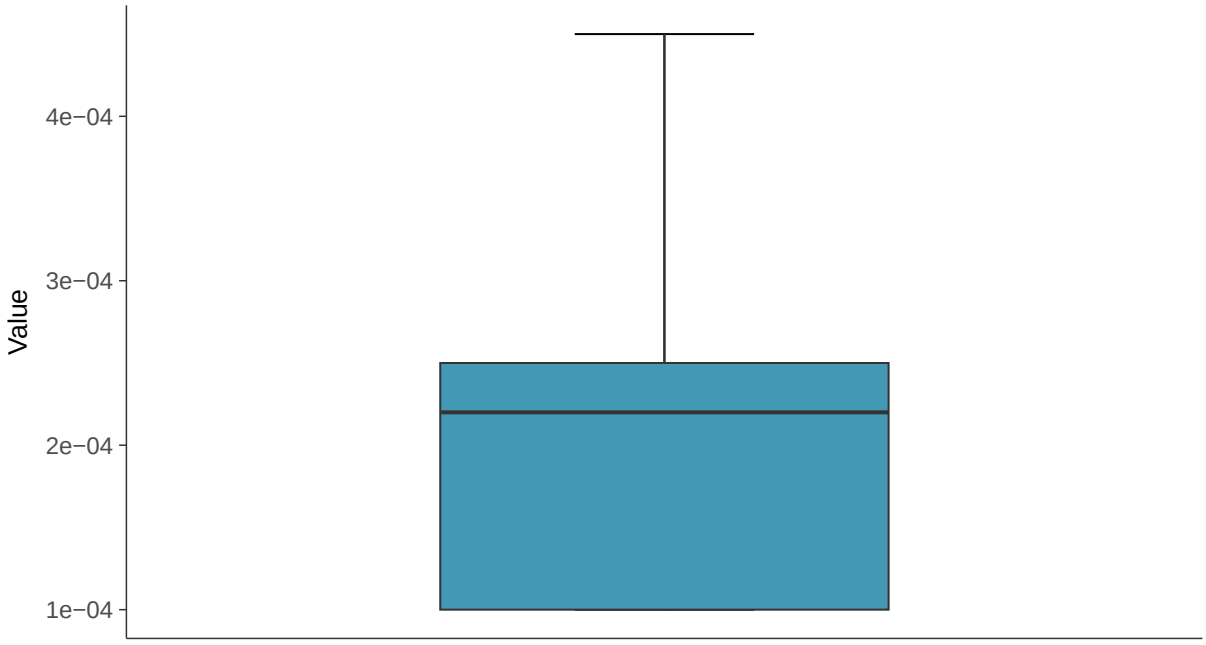
ID: 41_1_4_115





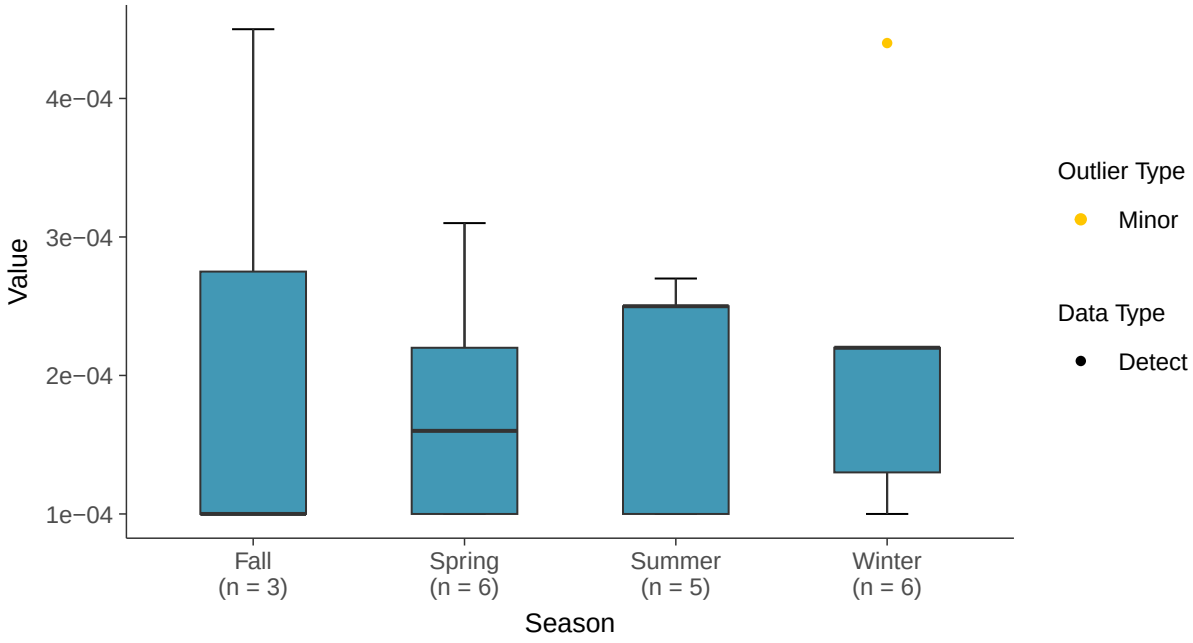
Boxplot

Lead, MW-31 (mg/L)



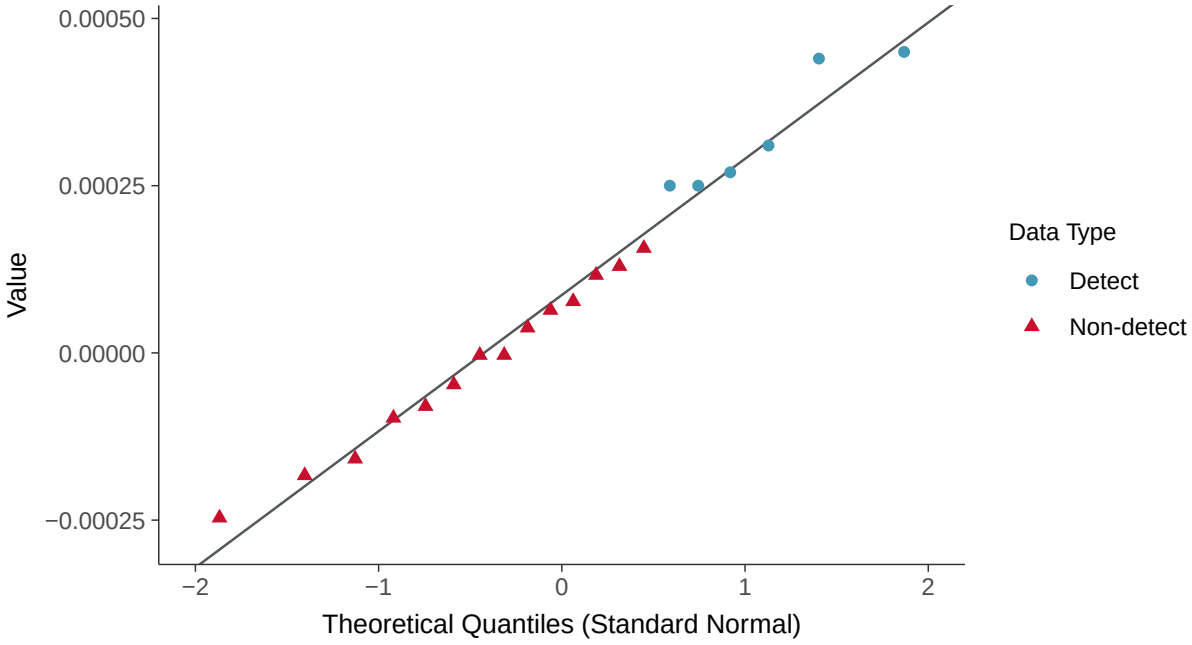
Boxplot by Season

Lead, MW-31 (mg/L)



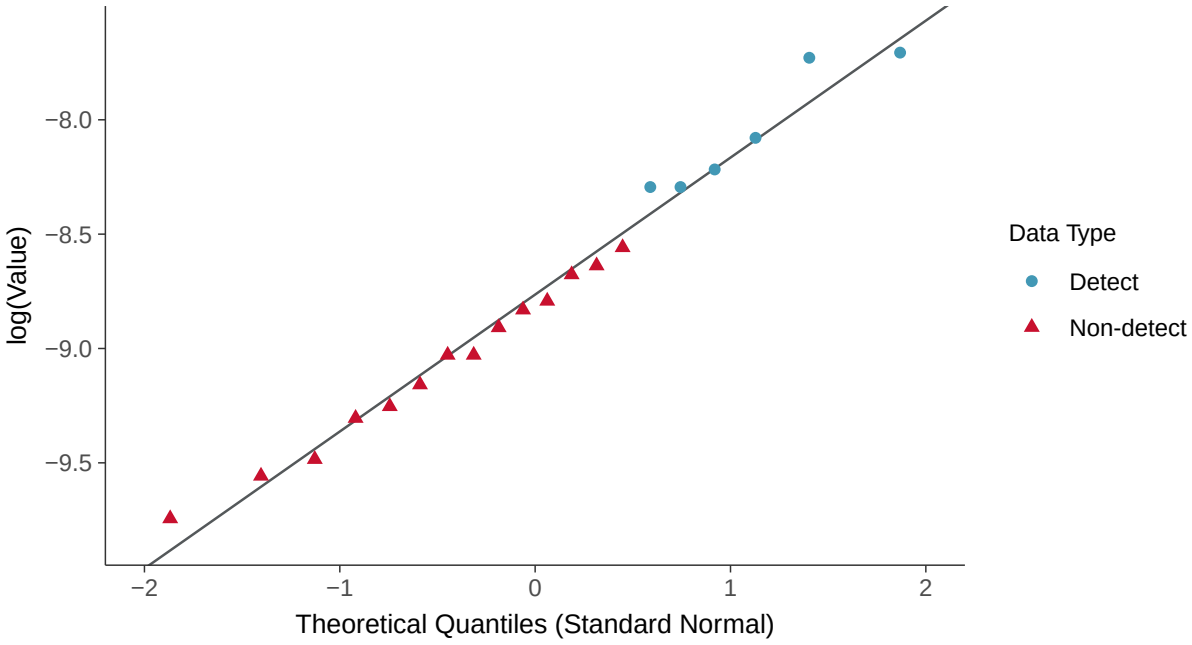
Normal Q-Q plot using ROS Imputed Estimates

Lead, MW-31 (mg/L)



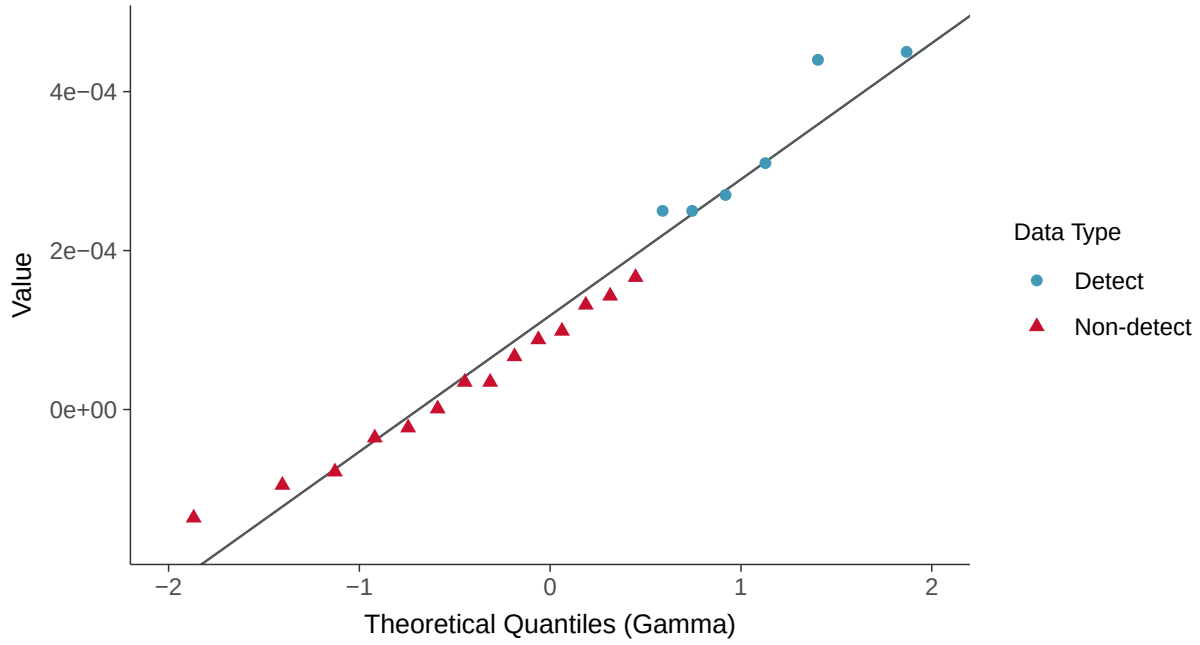
Lognormal Q-Q plot using ROS Imputed Estimates

Lead, MW-31 (mg/L)



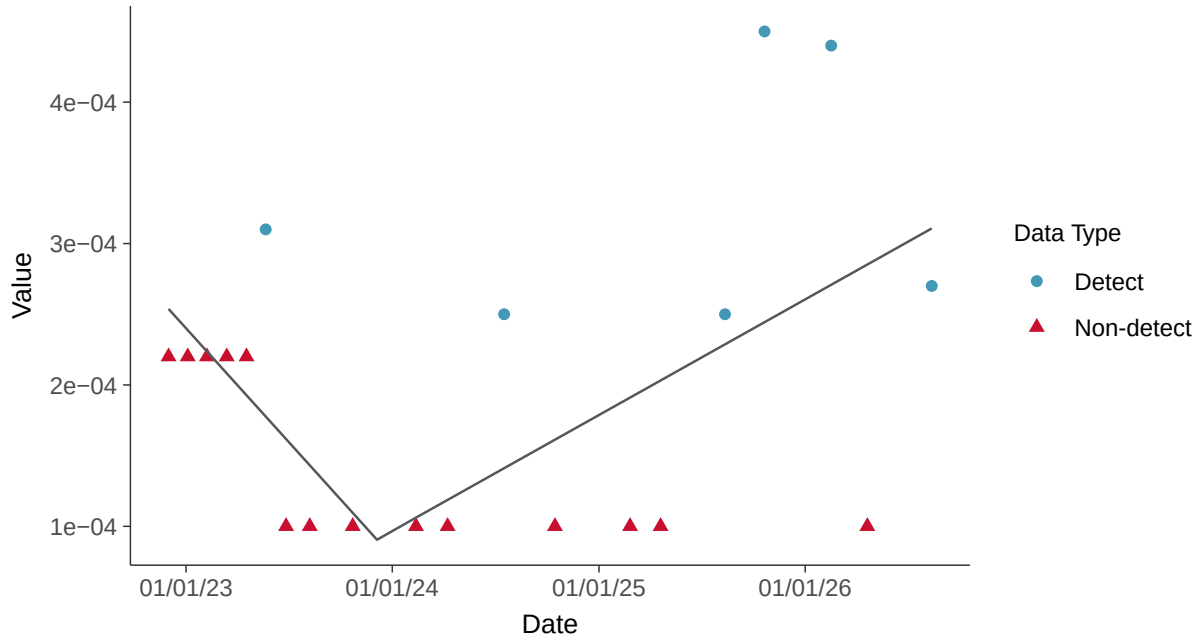
Gamma Q-Q plot using ROS Imputed Estimates

Lead, MW-31 (mg/L)



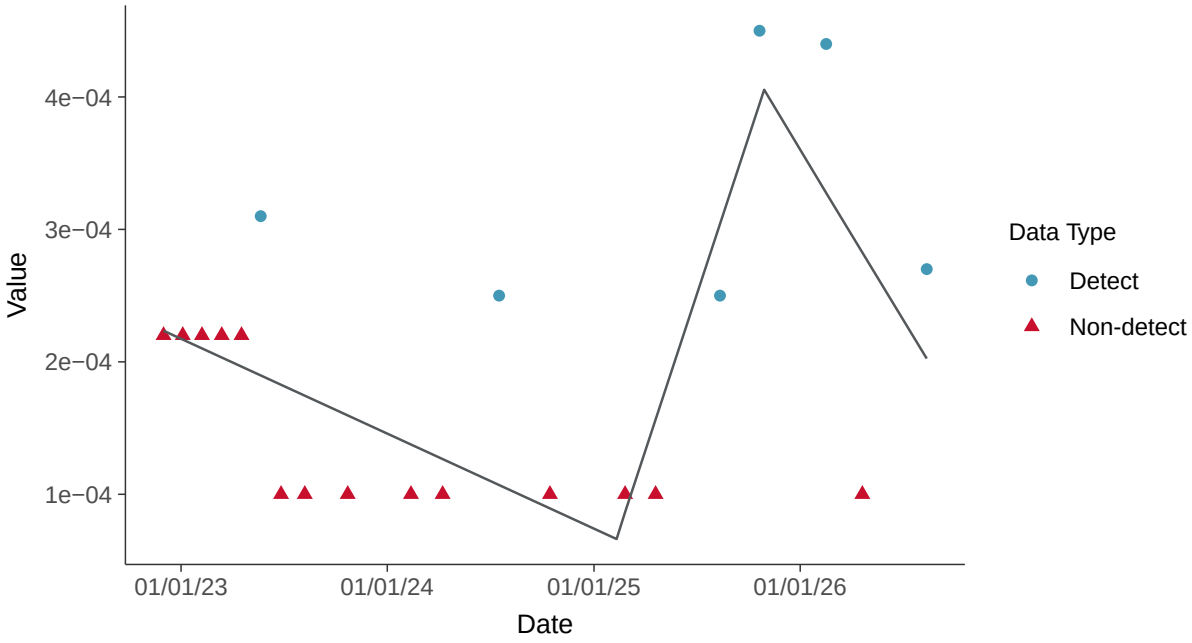
Trend Regression: Piecewise Linear-Linear

Lead, MW-31 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Lead, MW-31 (mg/L)

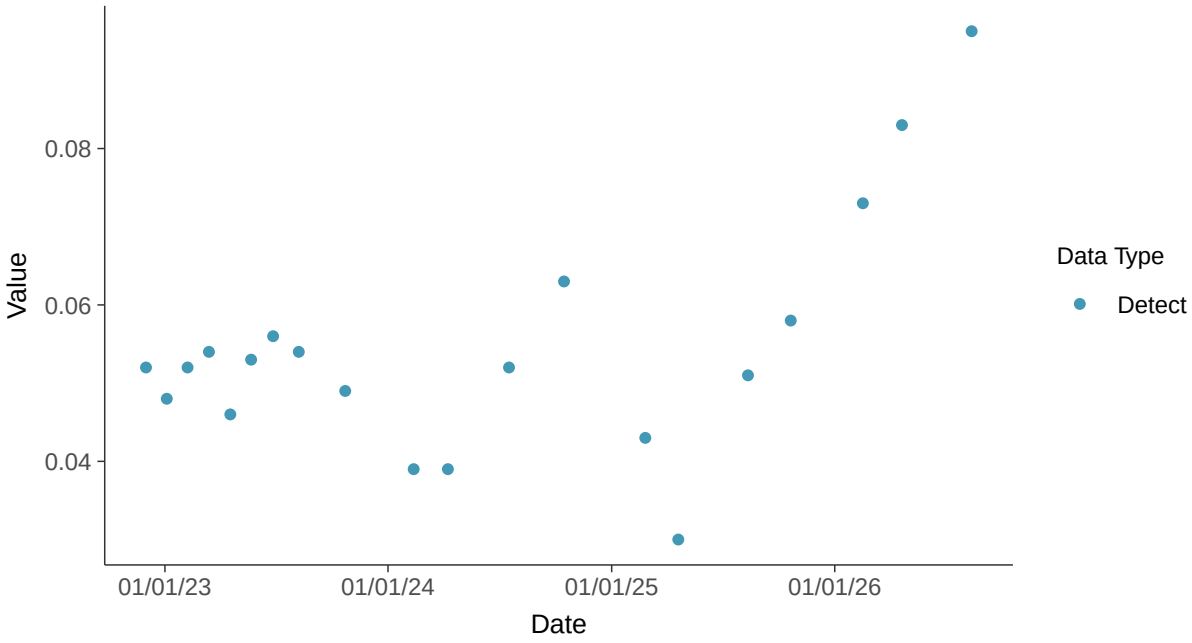


Appendix IV: Lithium, MW-31

ID: 41_1_4_116

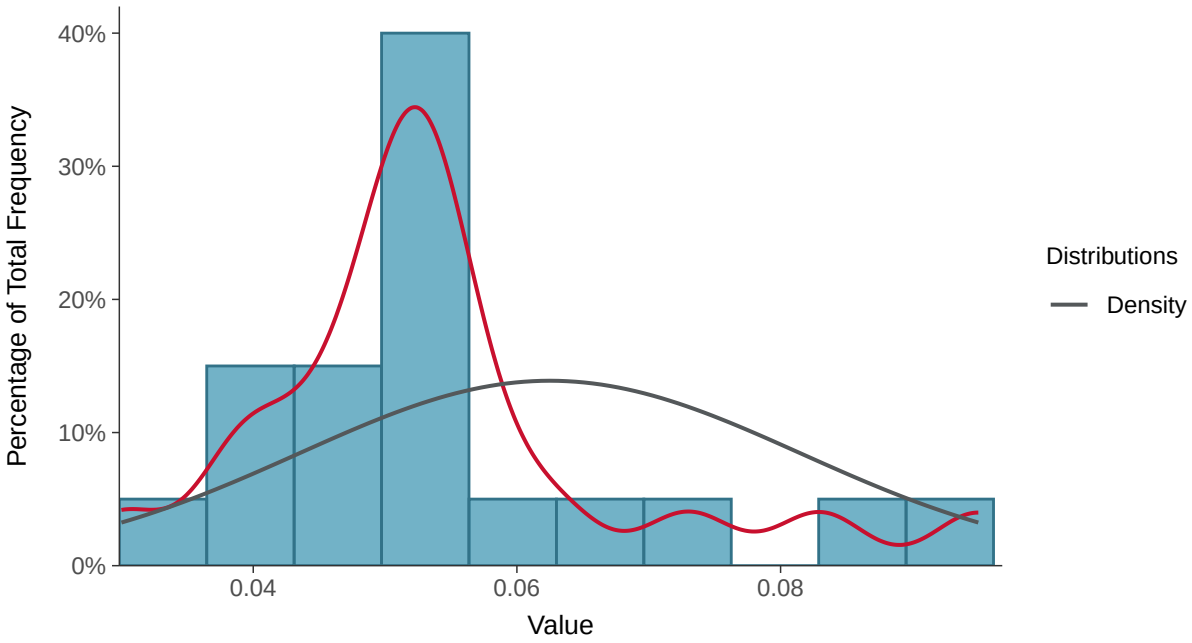
Scatter Plot

Lithium, MW-31 (mg/L)



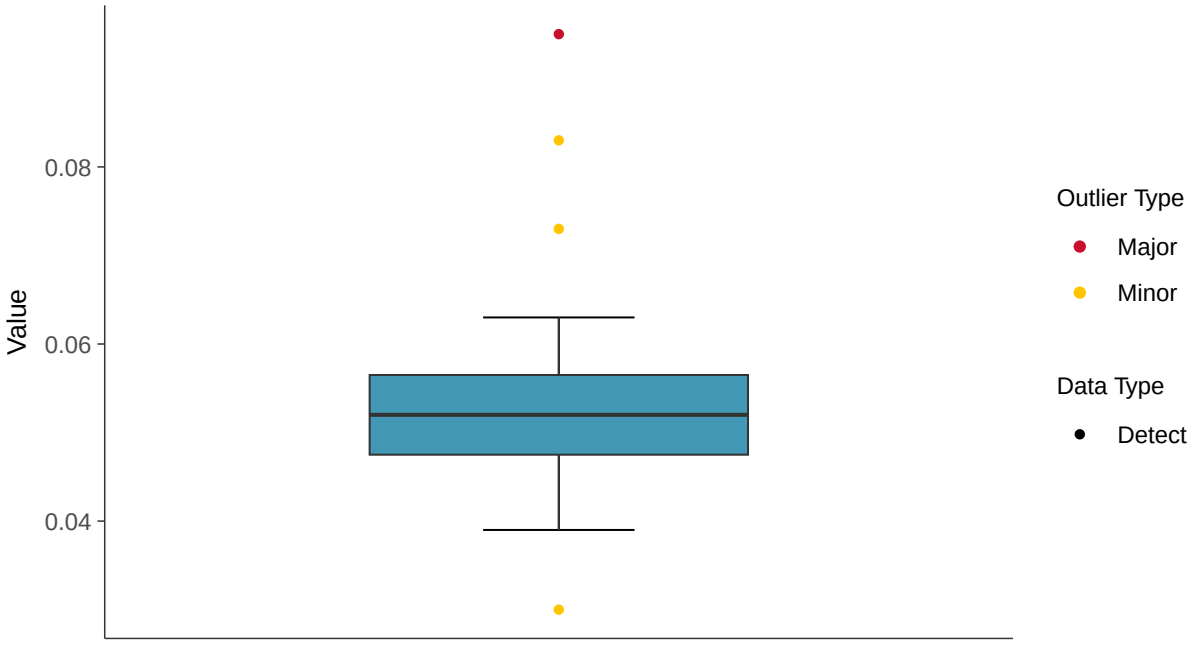
Histogram

Lithium, MW-31 (mg/L)



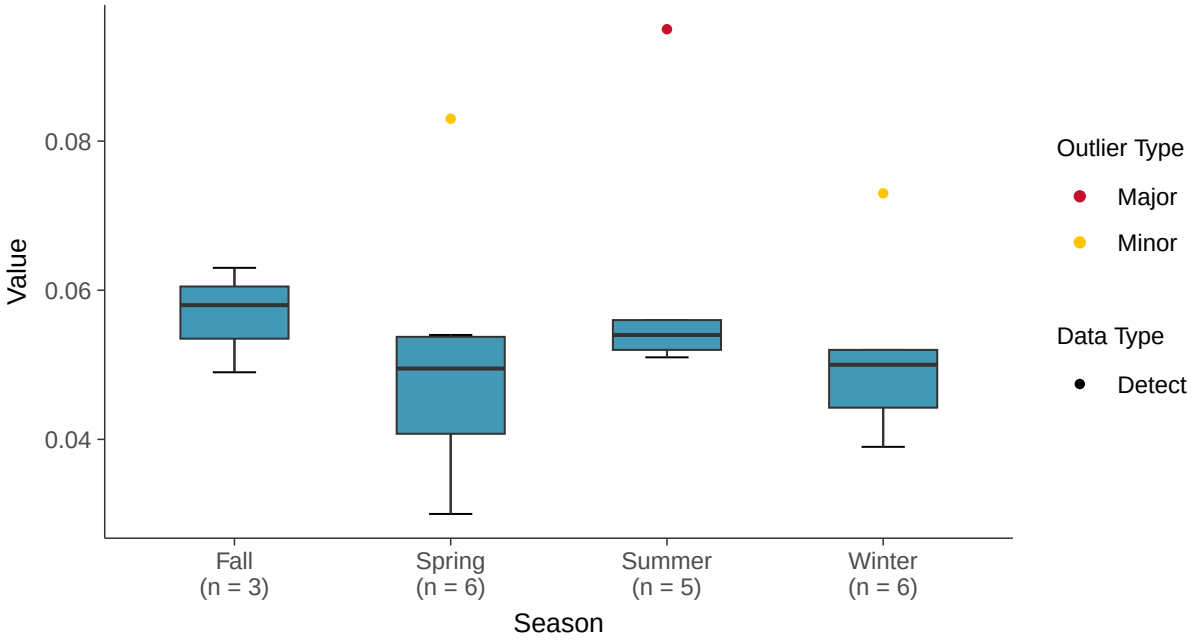
Boxplot

Lithium, MW-31 (mg/L)



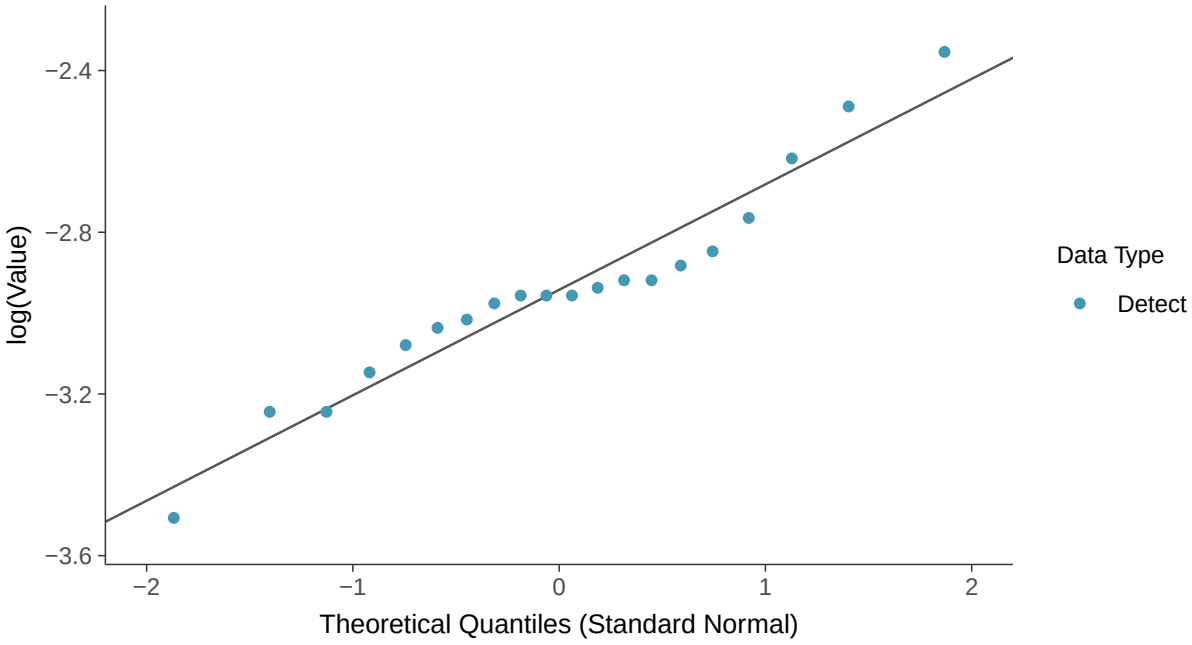
Boxplot by Season

Lithium, MW-31 (mg/L)



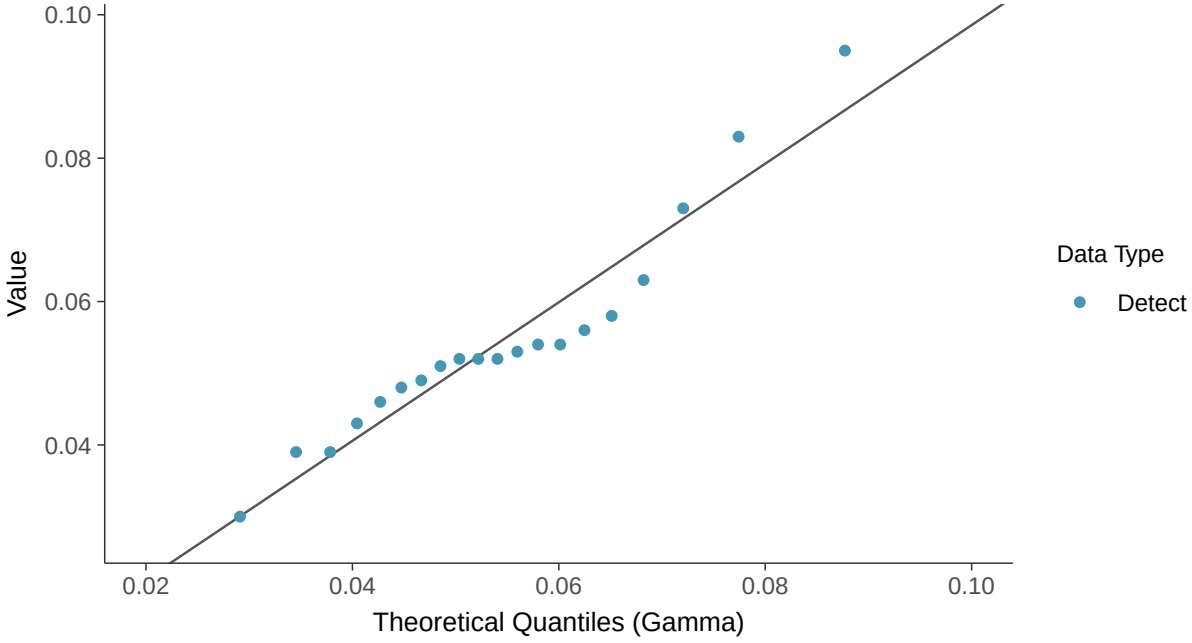
Lognormal Q-Q plot

Lithium, MW-31 (mg/L)



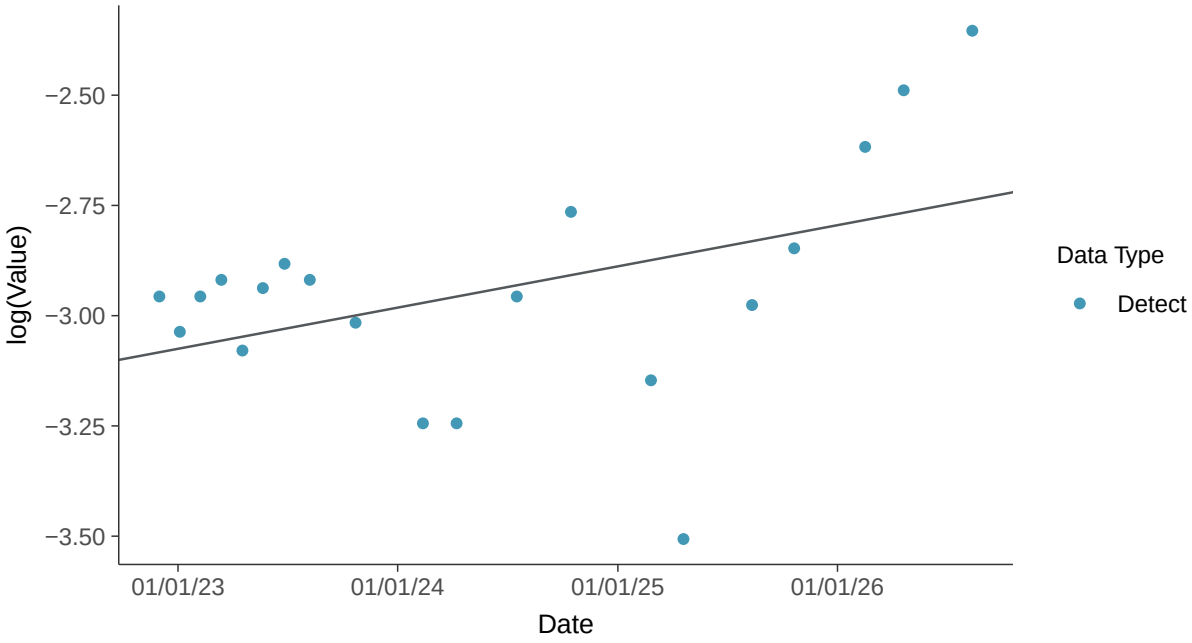
Gamma Q-Q plot

Lithium, MW-31 (mg/L)



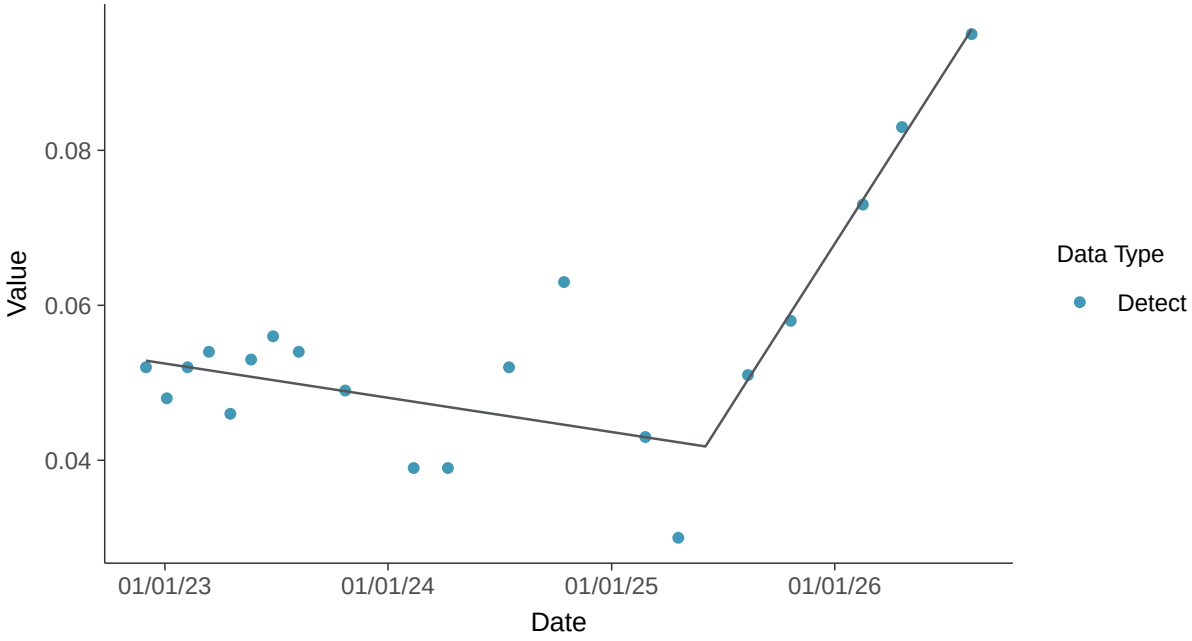
Trend Regression: Lognormal MLE

Lithium, MW-31 (mg/L)



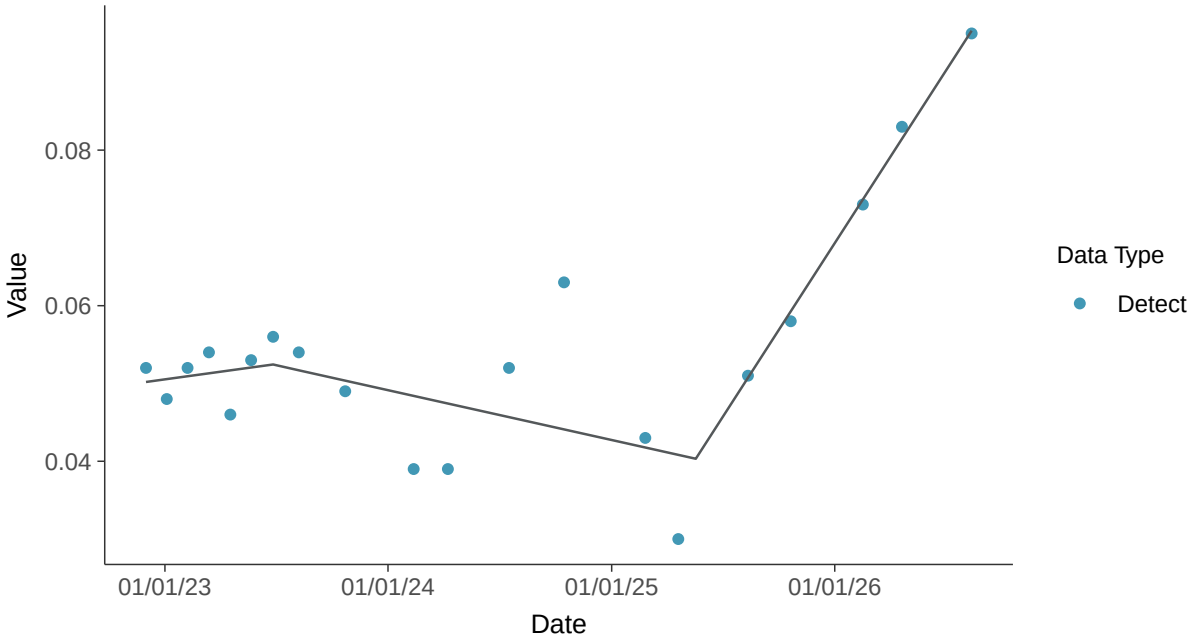
Trend Regression: Piecewise Linear-Linear

Lithium, MW-31 (mg/L)



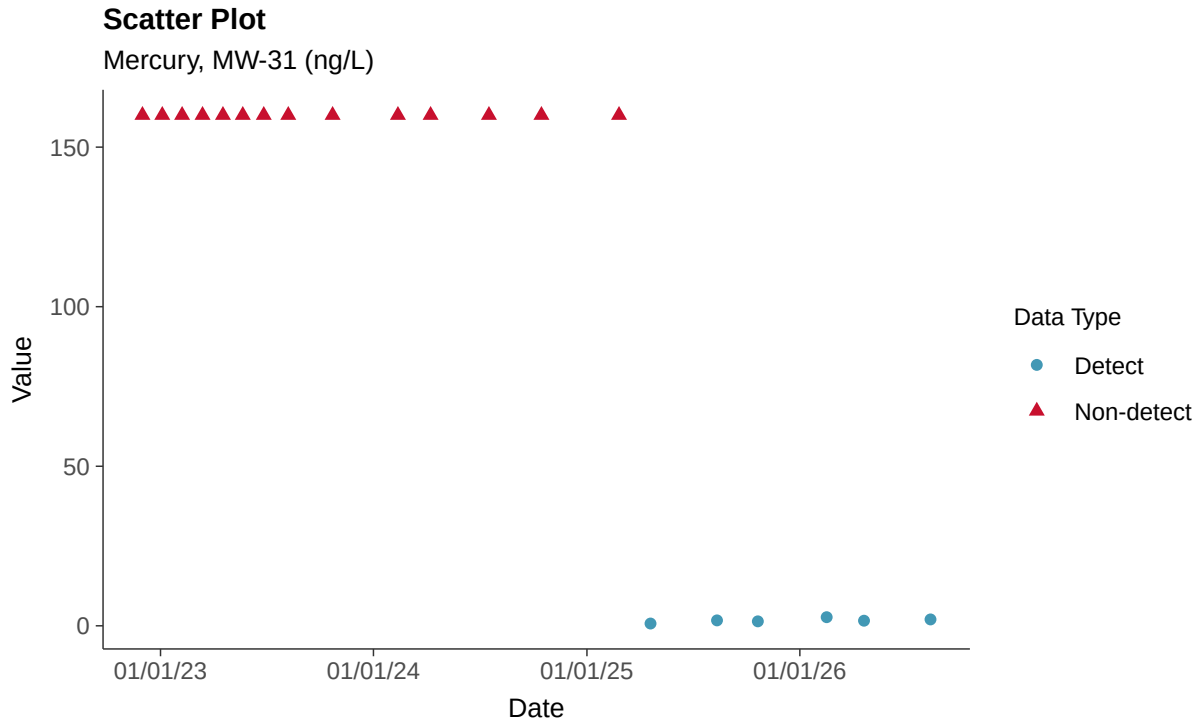
Trend Regression: Piecewise Linear-Linear-Linear

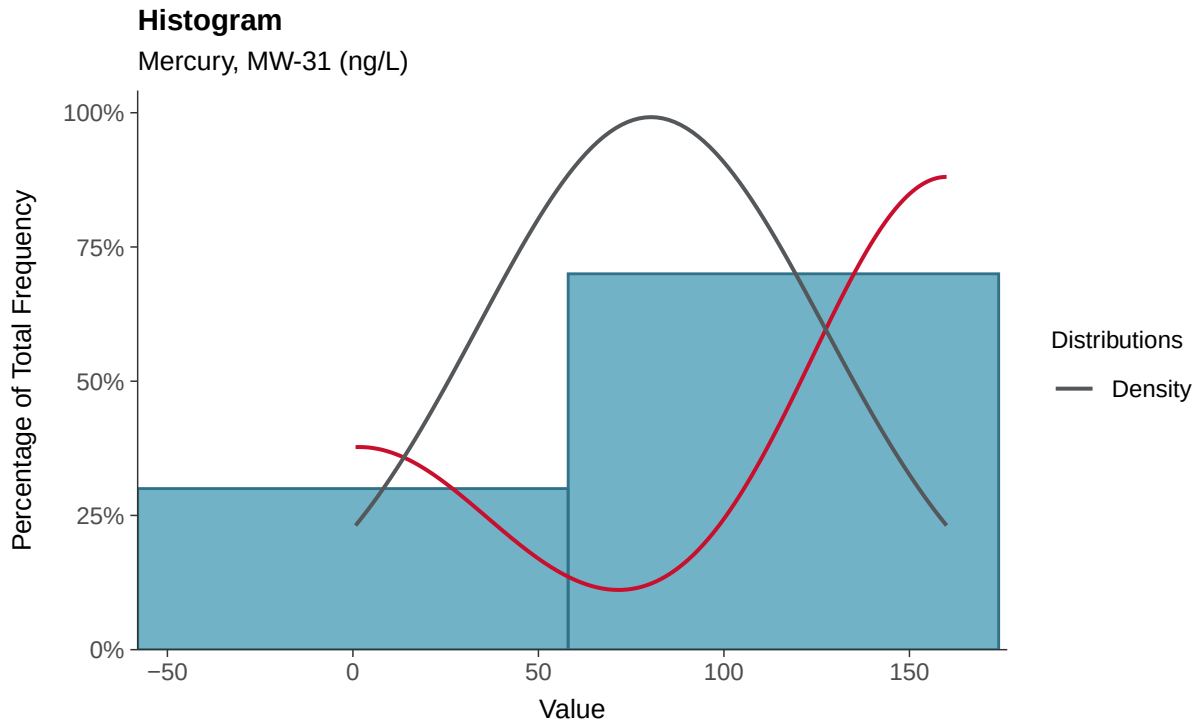
Lithium, MW-31 (mg/L)



Appendix IV: Mercury, MW-31

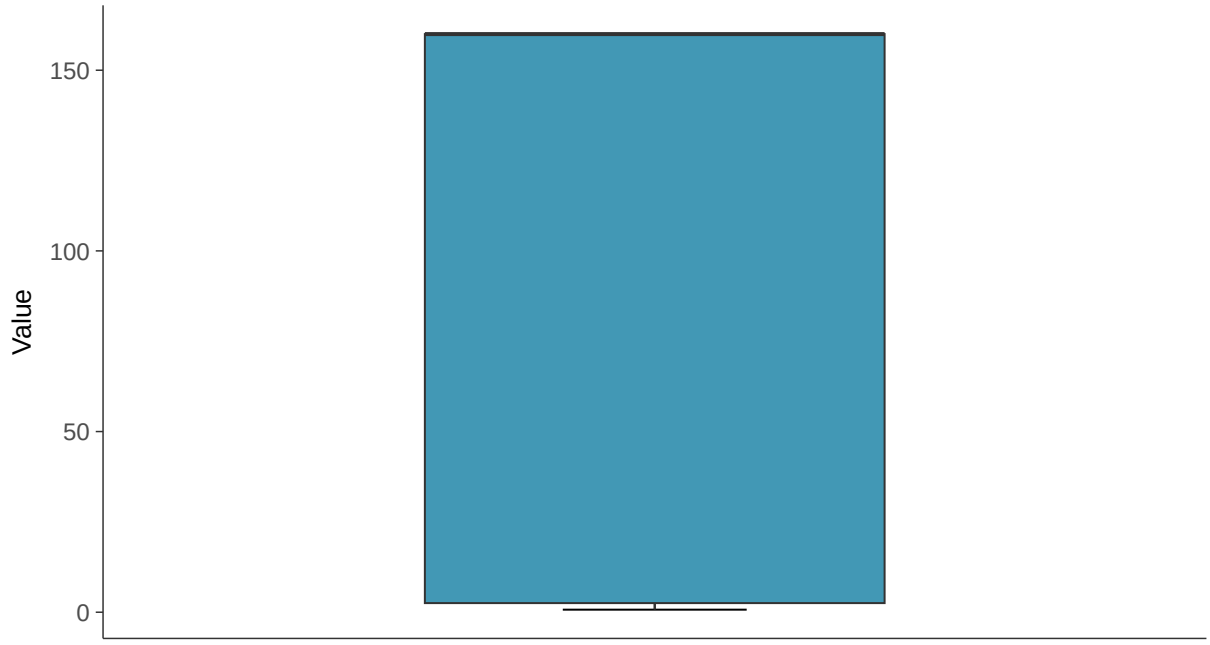
ID: 41_1_4_117





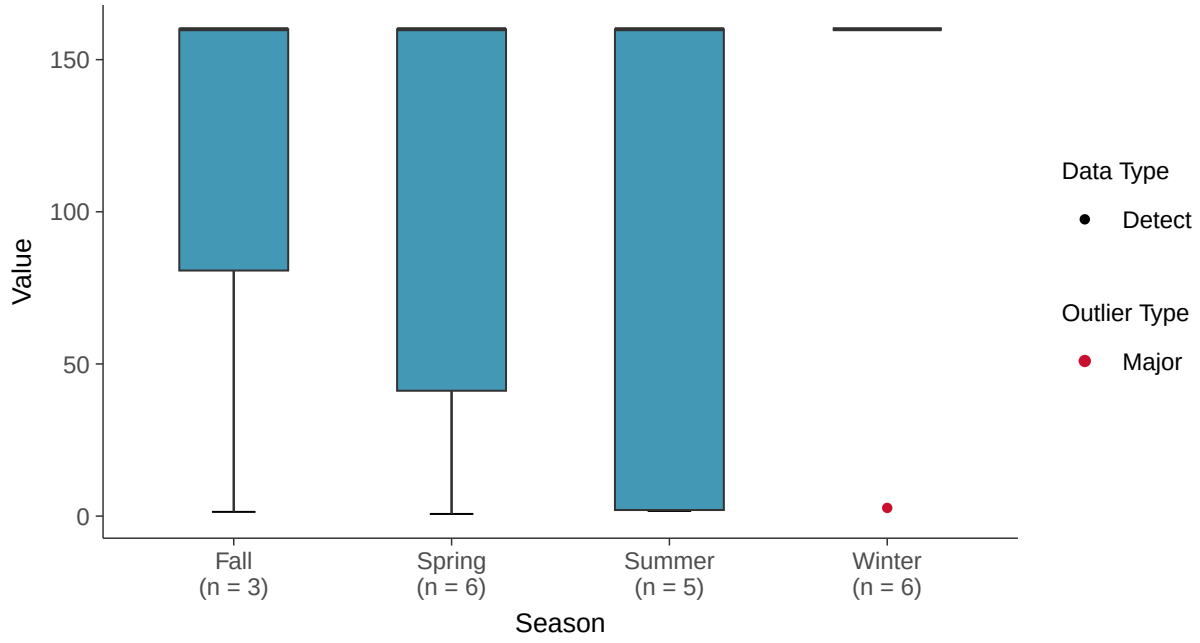
Boxplot

Mercury, MW-31 (ng/L)



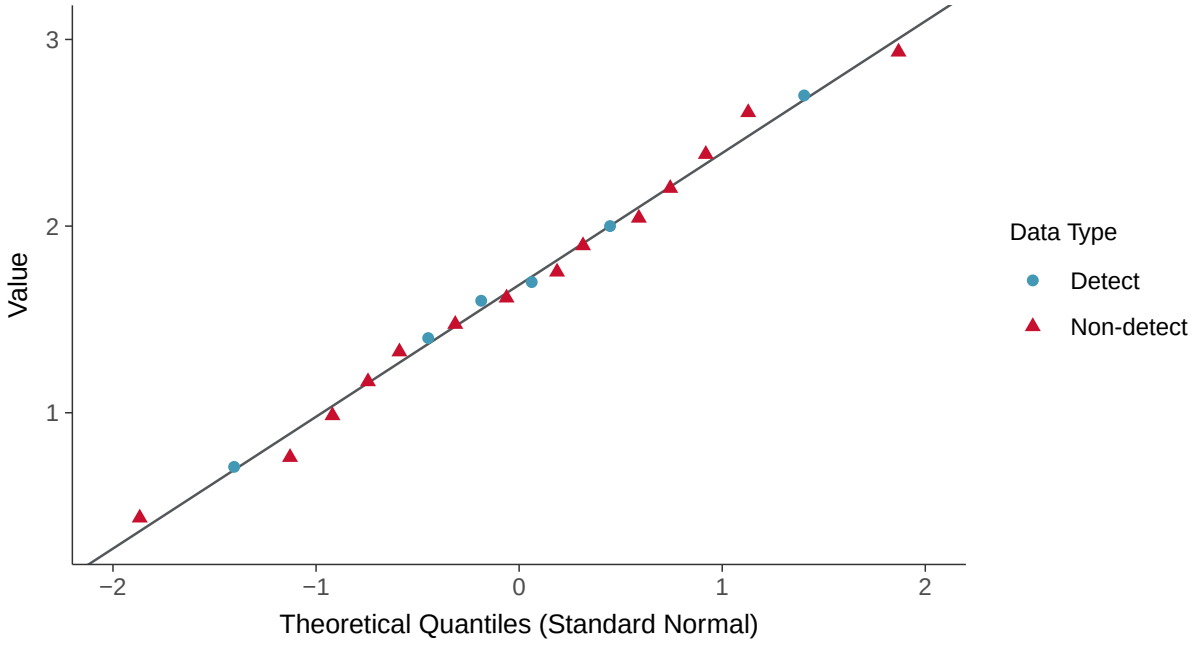
Boxplot by Season

Mercury, MW-31 (ng/L)



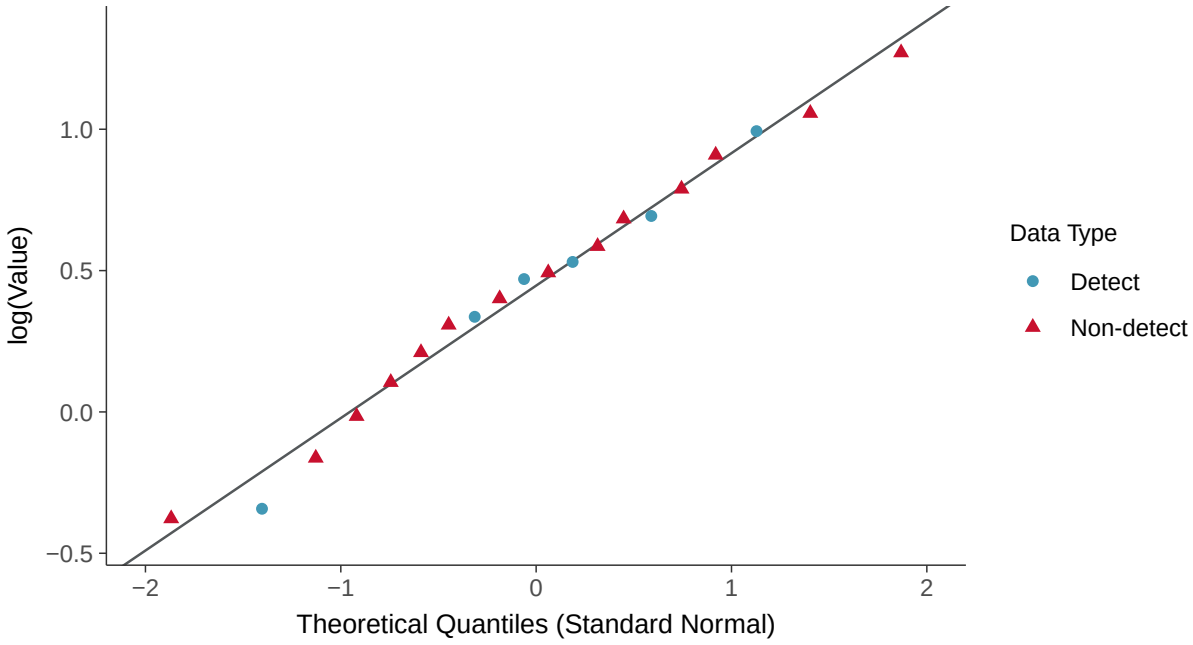
Normal Q-Q plot using ROS Imputed Estimates

Mercury, MW-31 (ng/L)



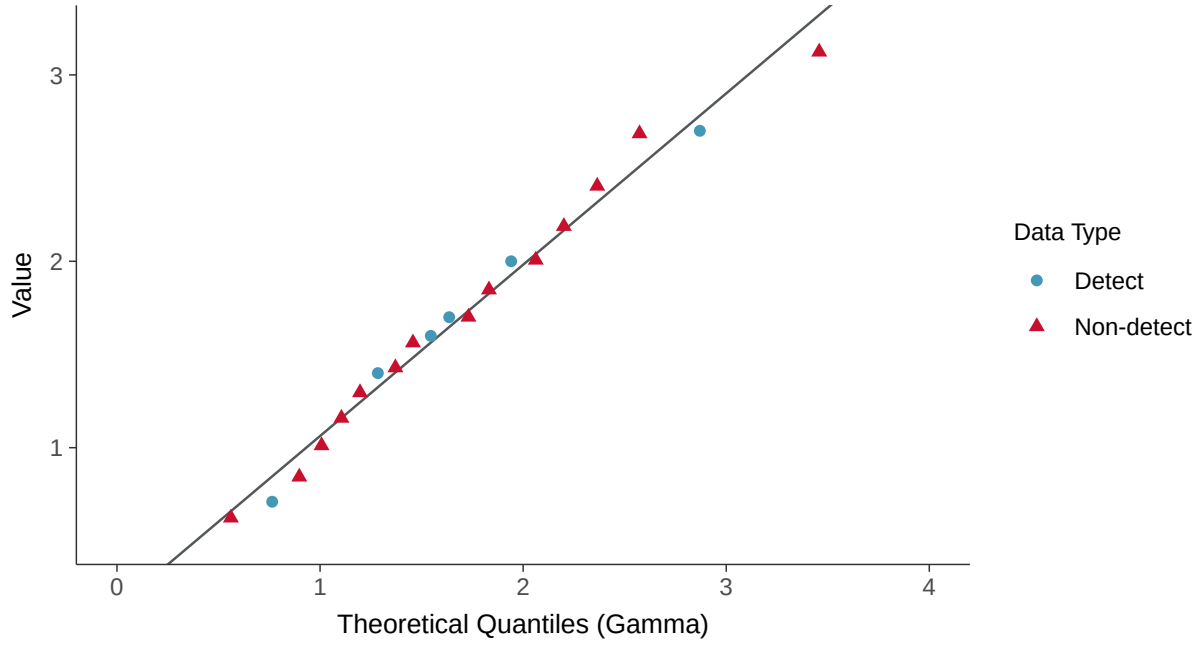
Lognormal Q-Q plot using ROS Imputed Estimates

Mercury, MW-31 (ng/L)



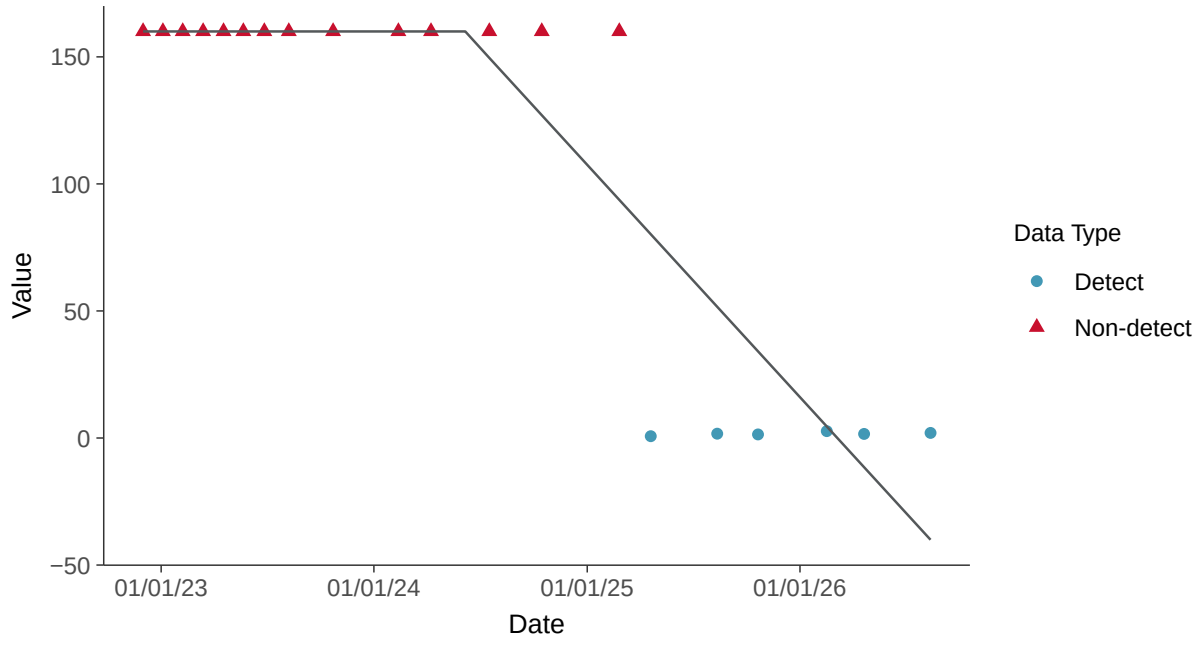
Gamma Q-Q plot using ROS Imputed Estimates

Mercury, MW-31 (ng/L)



Trend Regression: Piecewise Linear-Linear

Mercury, MW-31 (ng/L)

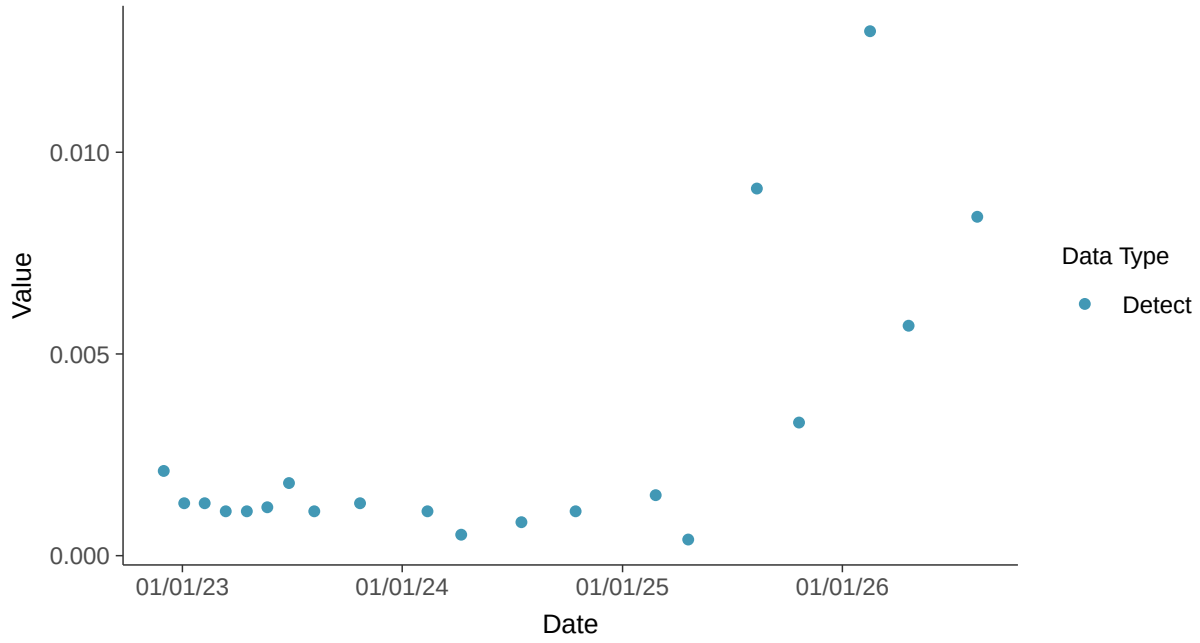


Appendix IV: Molybdenum, MW-31

ID: 41_1_4_118

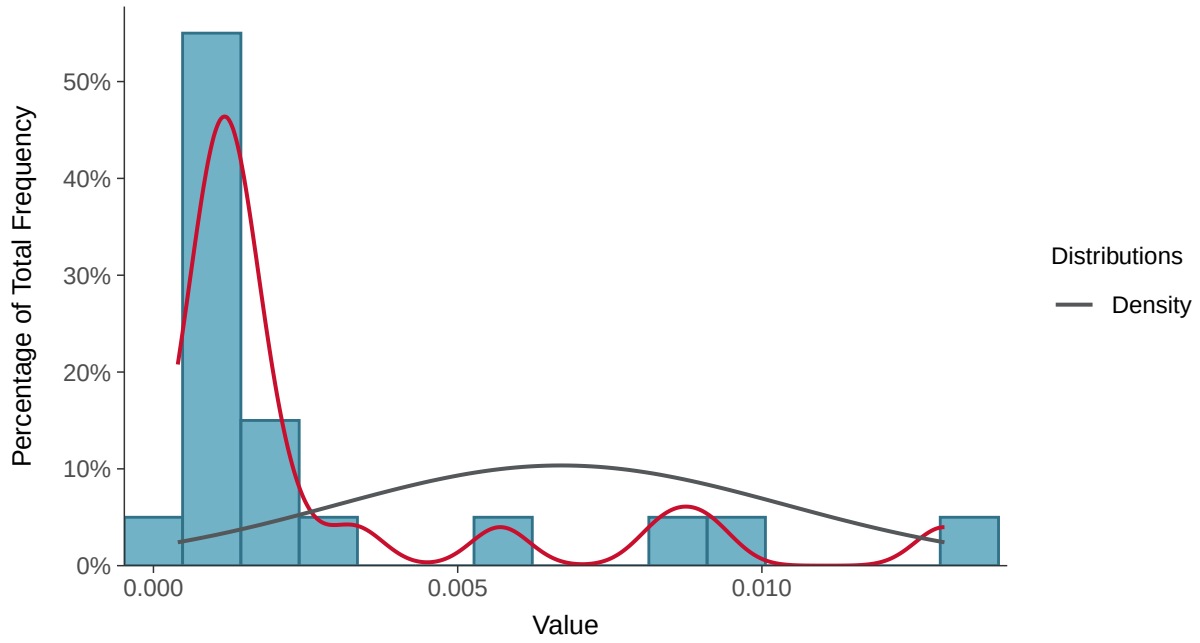
Scatter Plot

Molybdenum, MW-31 (mg/L)



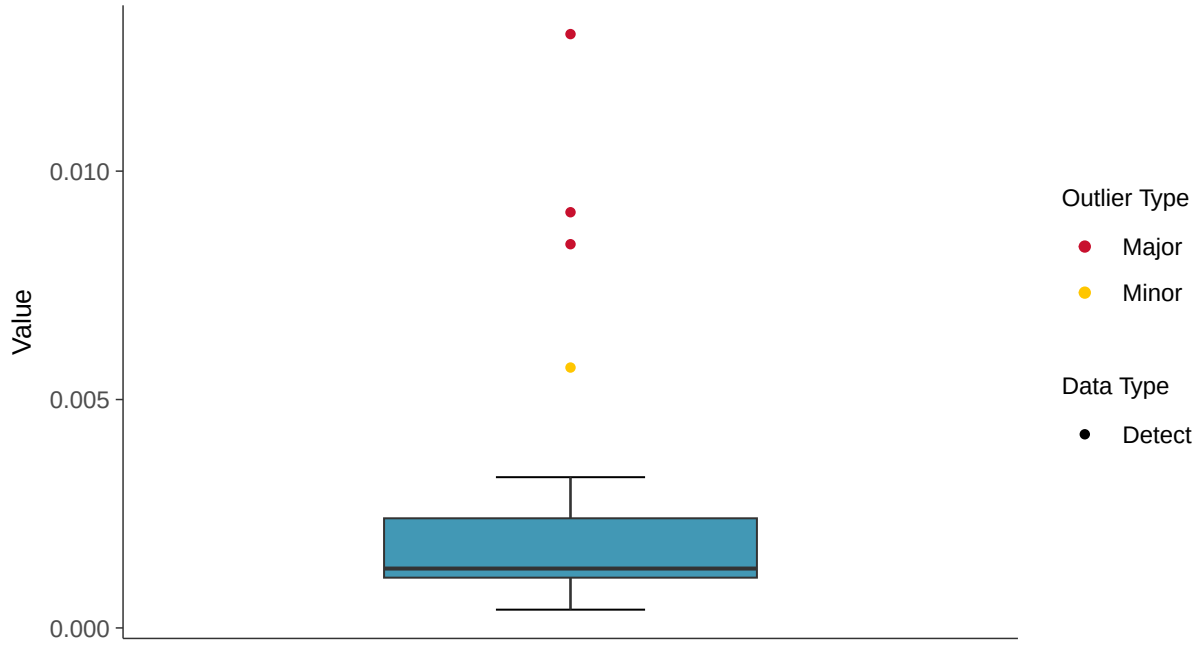
Histogram

Molybdenum, MW-31 (mg/L)



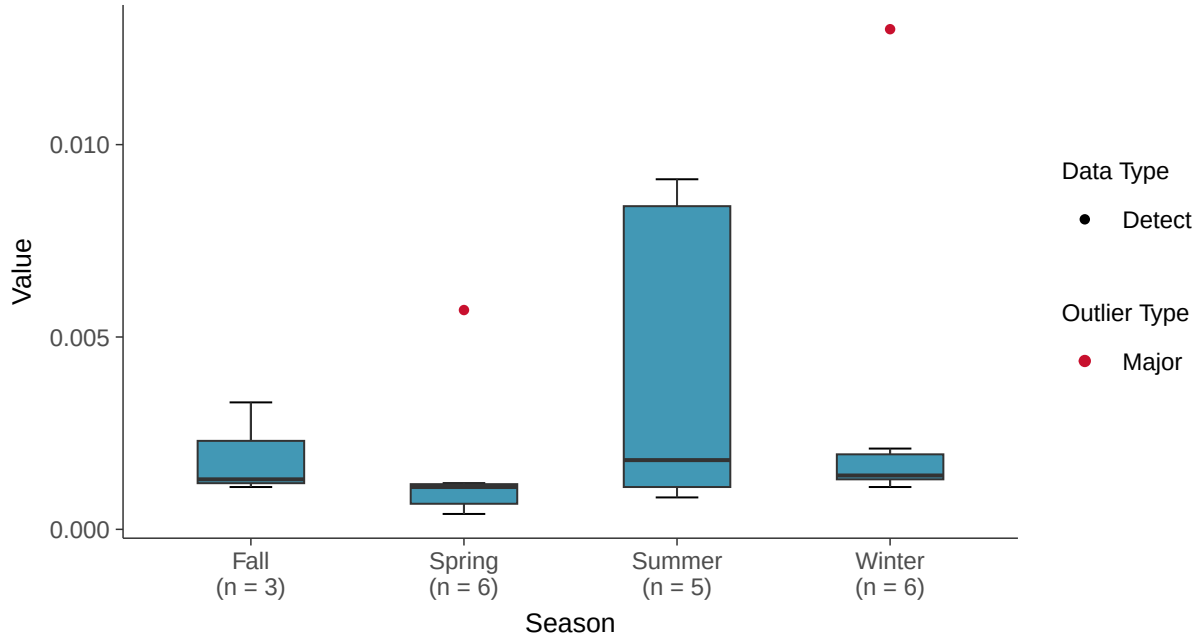
Boxplot

Molybdenum, MW-31 (mg/L)



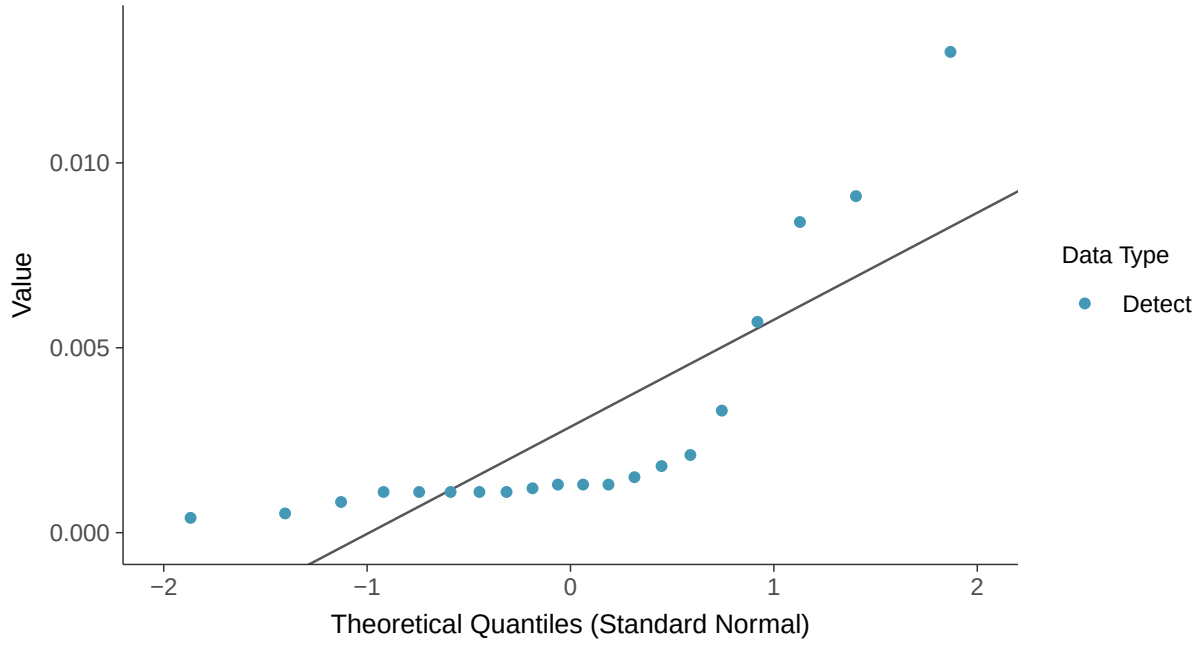
Boxplot by Season

Molybdenum, MW-31 (mg/L)



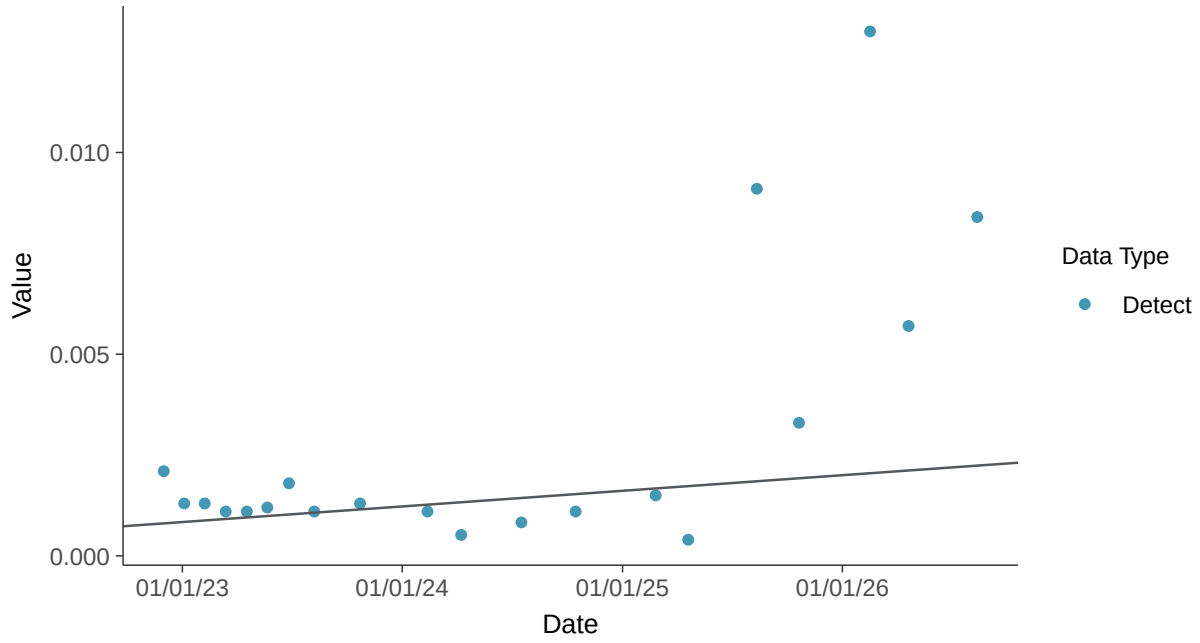
Normal Q-Q plot

Molybdenum, MW-31 (mg/L)



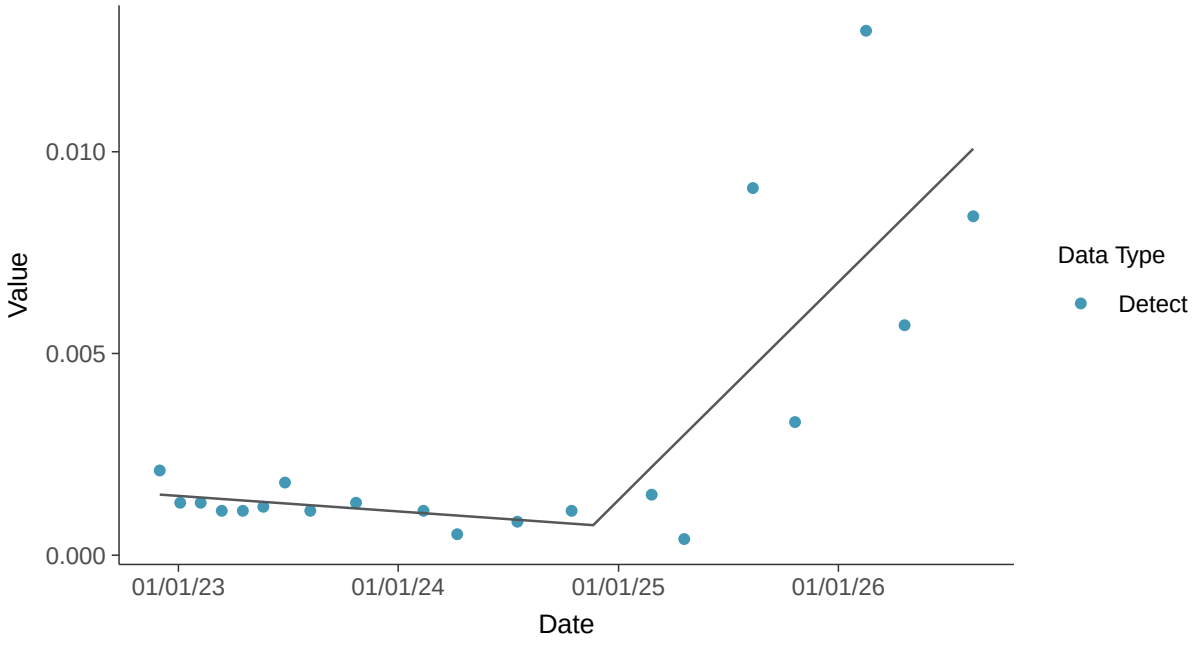
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Molybdenum, MW-31 (mg/L)



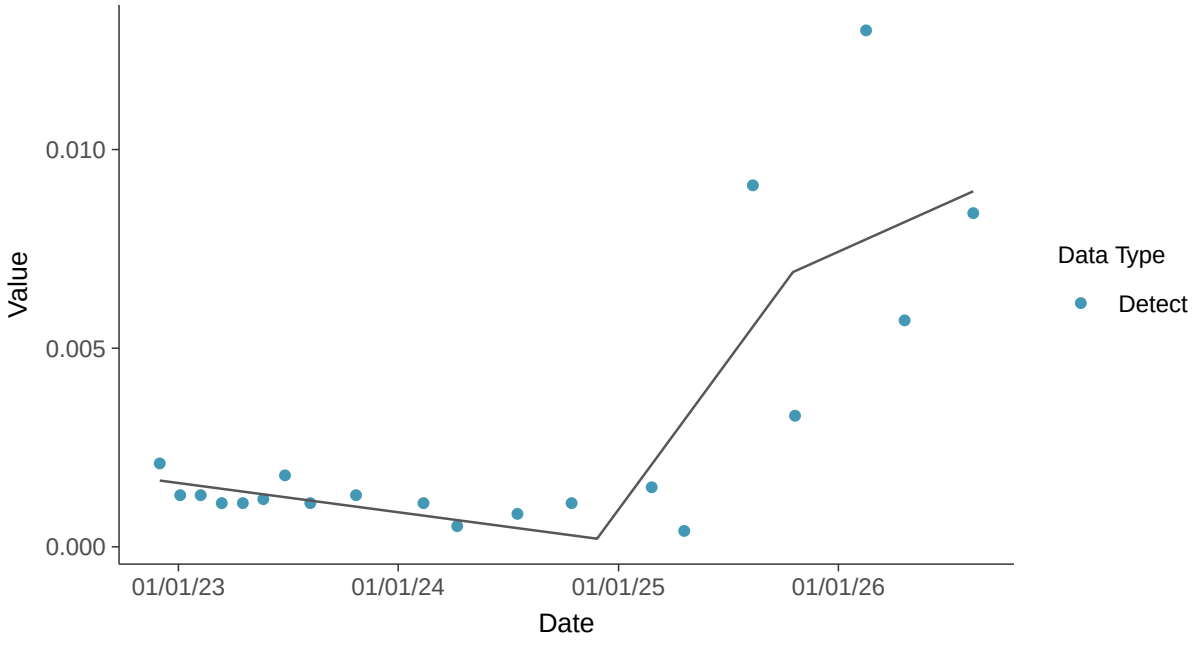
Trend Regression: Piecewise Linear-Linear

Molybdenum, MW-31 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Molybdenum, MW-31 (mg/L)

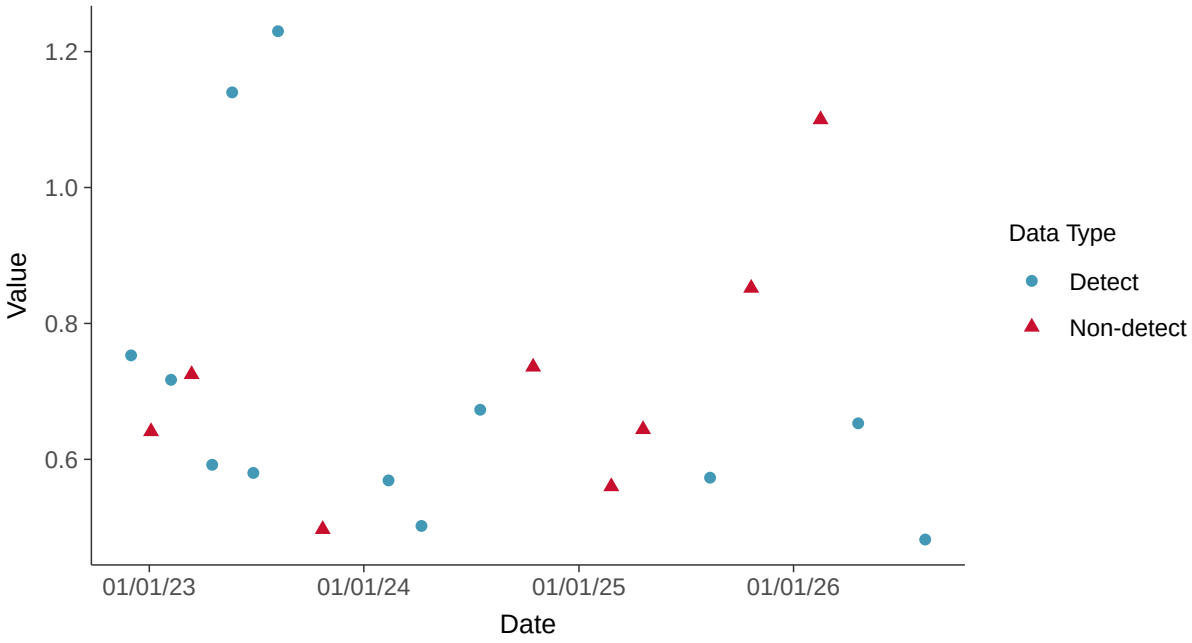


Appendix IV: Radium 226 and 228, MW-31

ID: 41_1_4_121

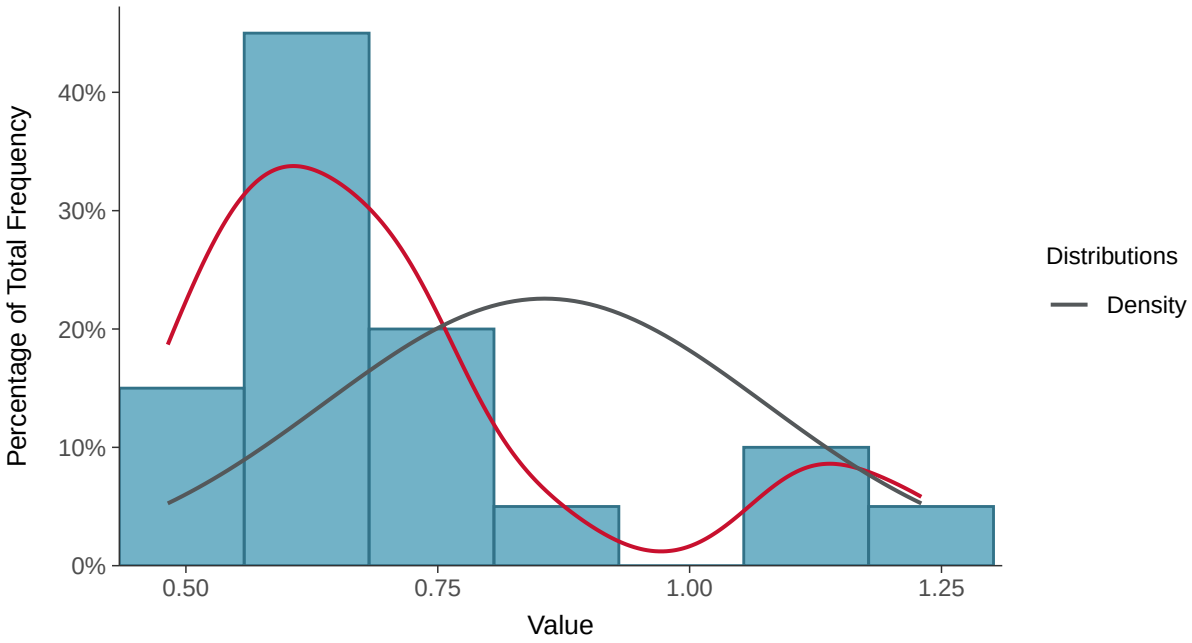
Scatter Plot

Radium 226 and 228, MW-31 (pCi/L)



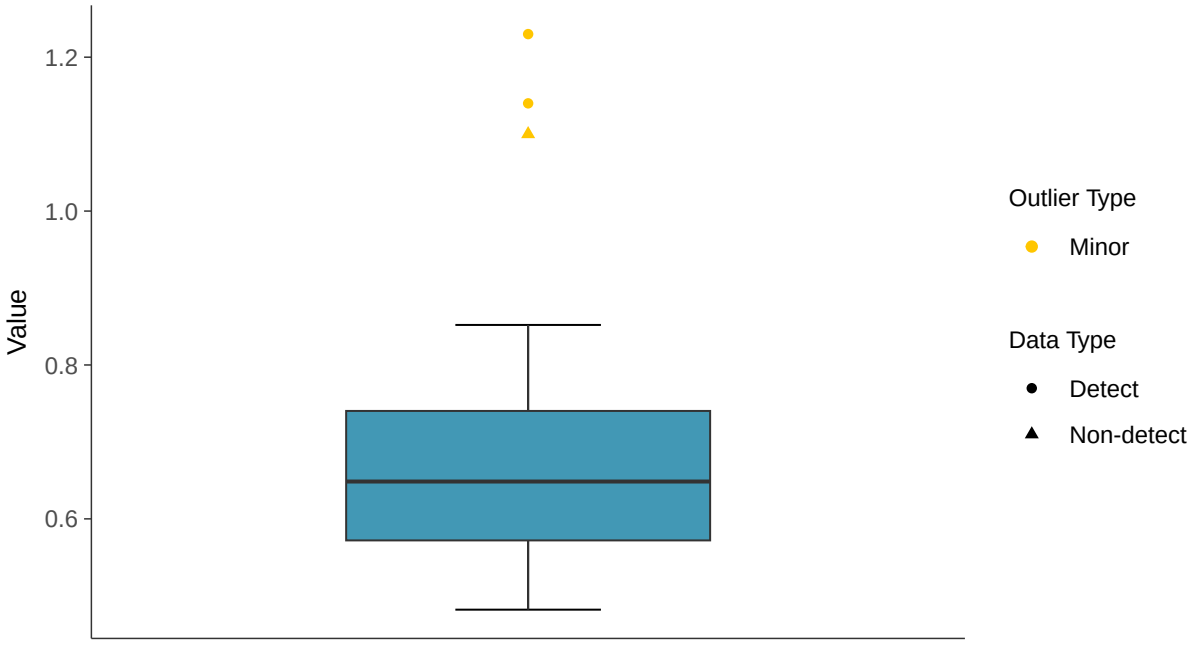
Histogram

Radium 226 and 228, MW-31 (pCi/L)



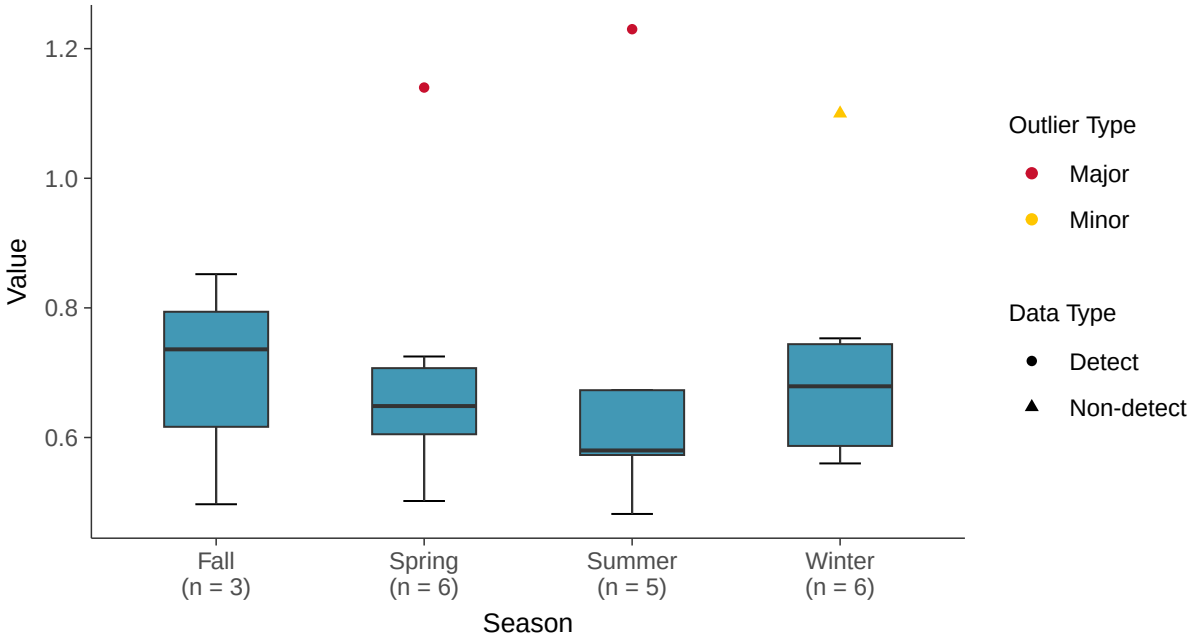
Boxplot

Radium 226 and 228, MW-31 (pCi/L)



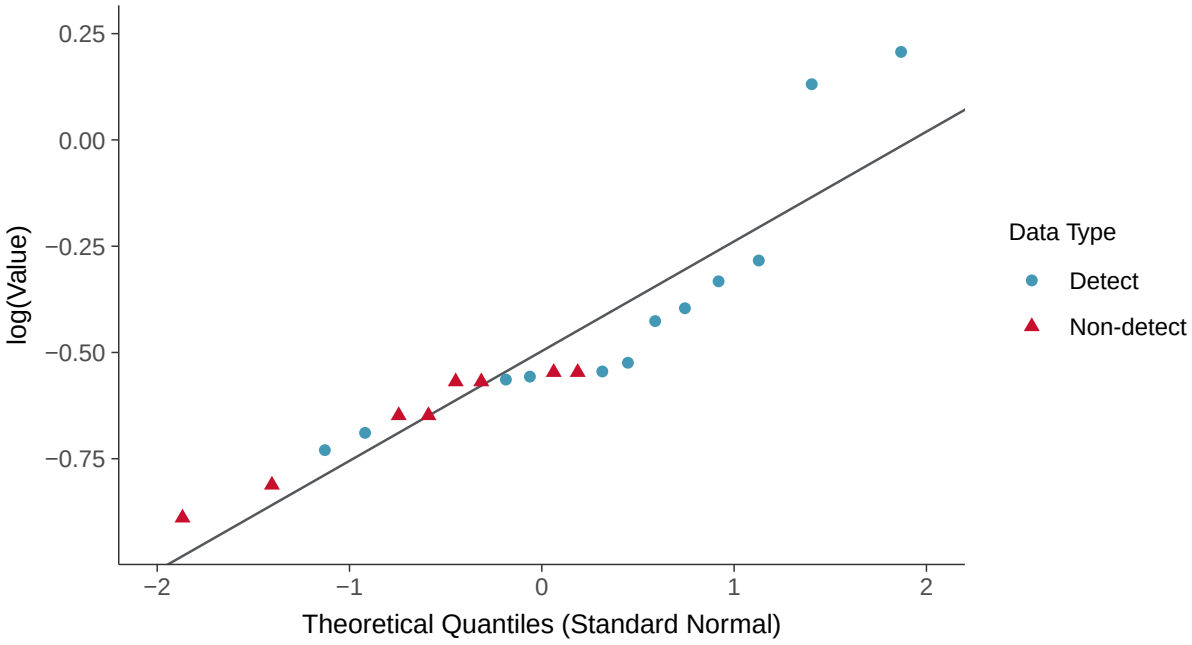
Boxplot by Season

Radium 226 and 228, MW-31 (pCi/L)



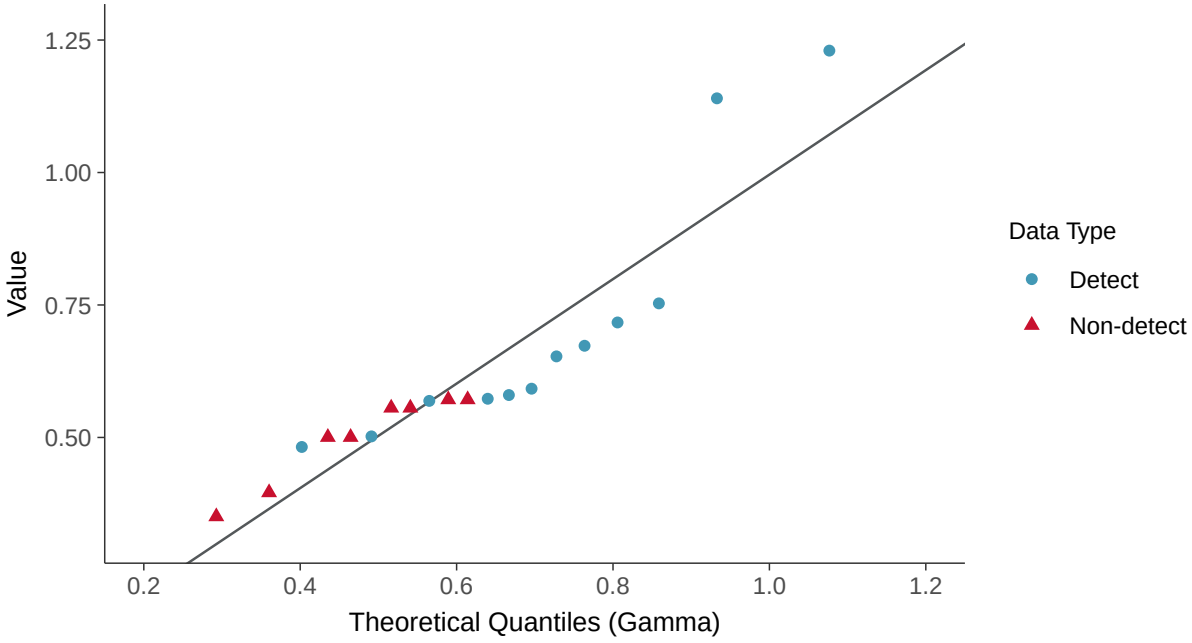
Lognormal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-31 (pCi/L)



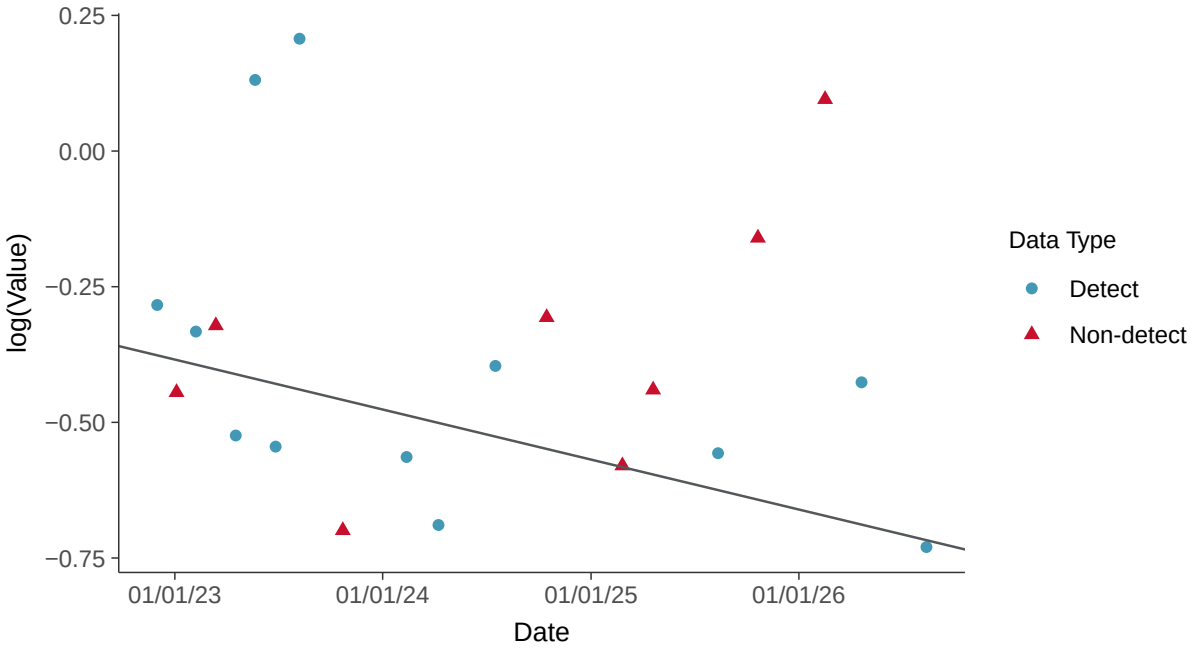
Gamma Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-31 (pCi/L)



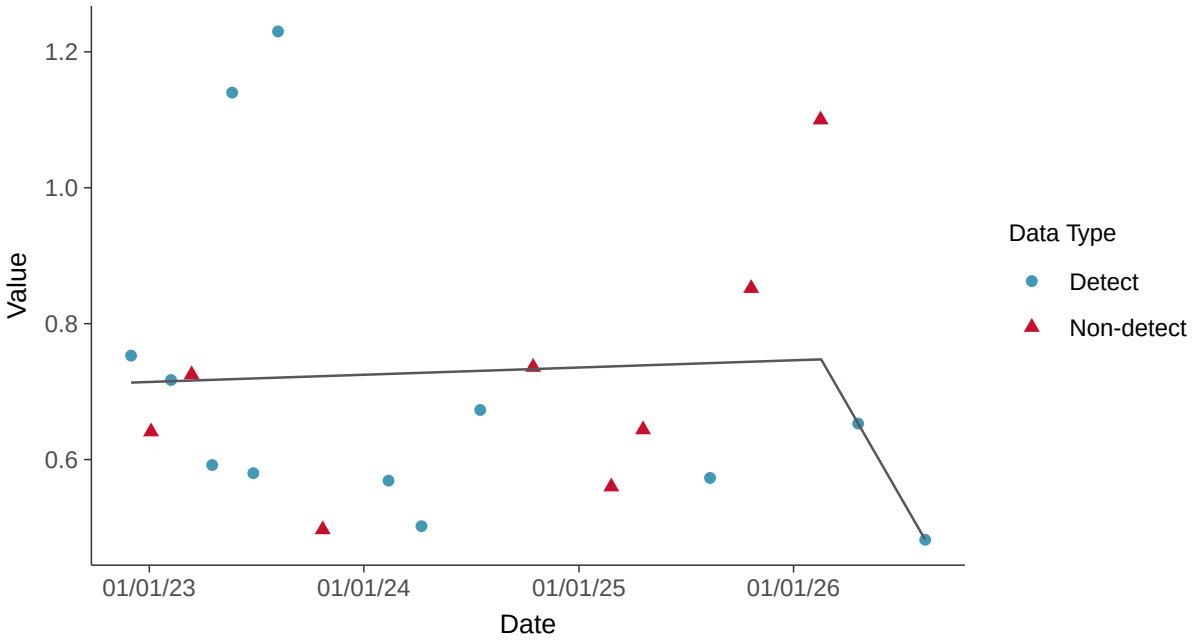
Trend Regression: Lognormal MLE

Radium 226 and 228, MW-31 (pCi/L)



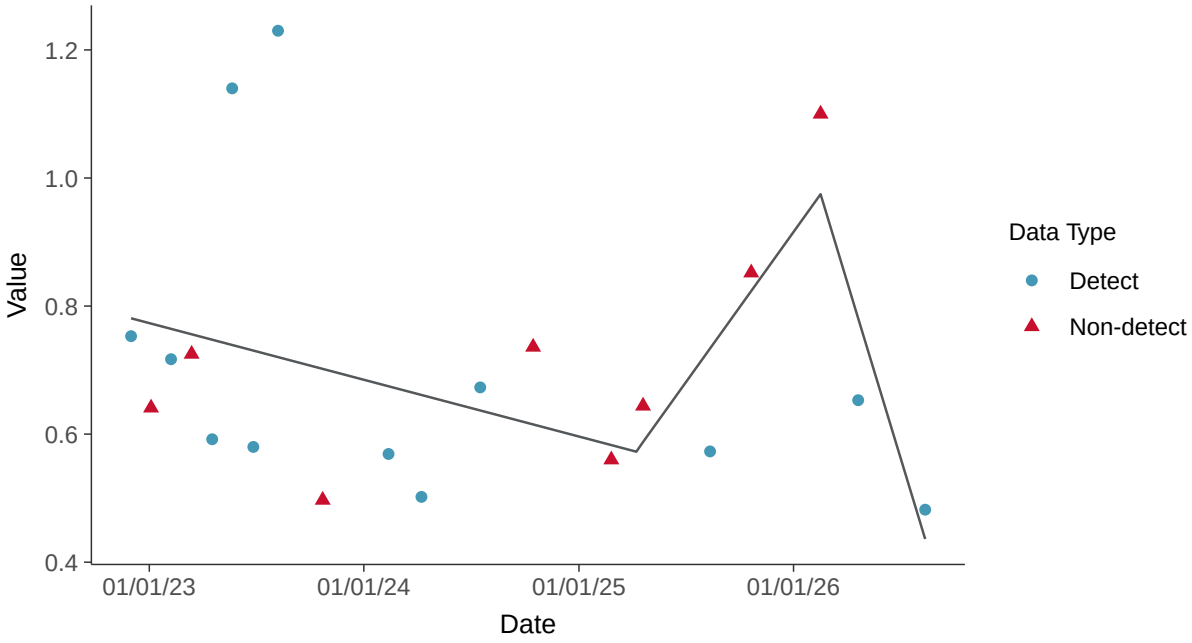
Trend Regression: Piecewise Linear-Linear

Radium 226 and 228, MW-31 (pCi/L)



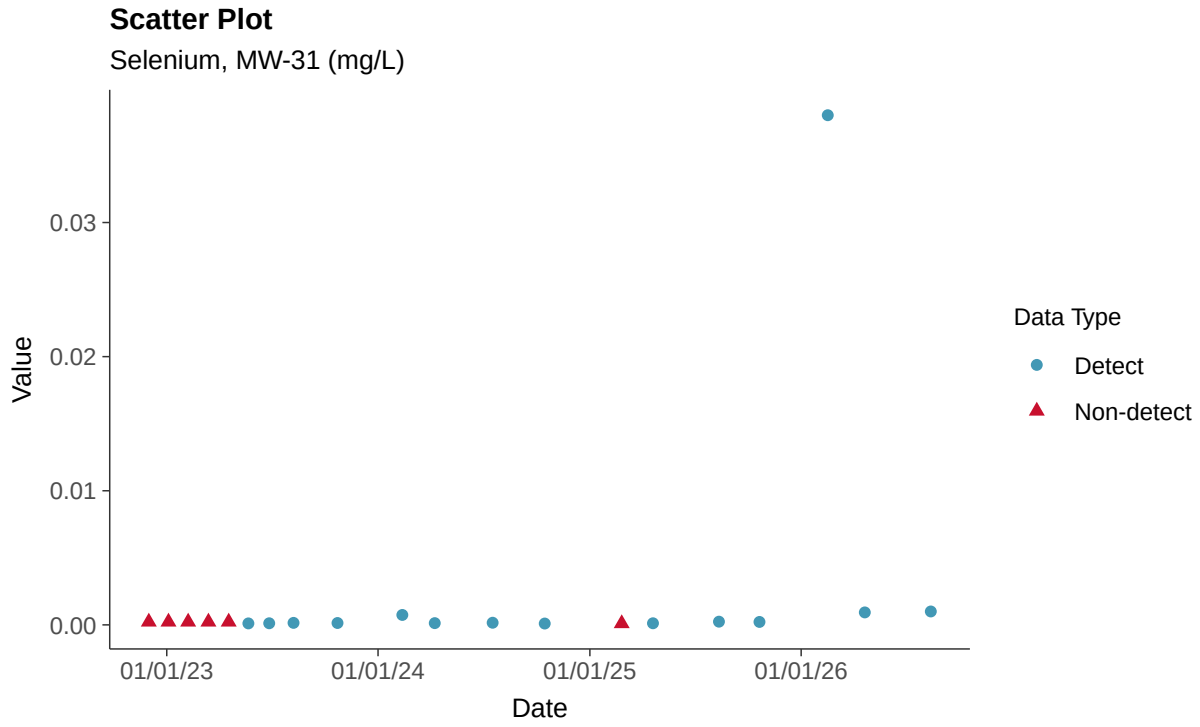
Trend Regression: Piecewise Linear-Linear-Linear

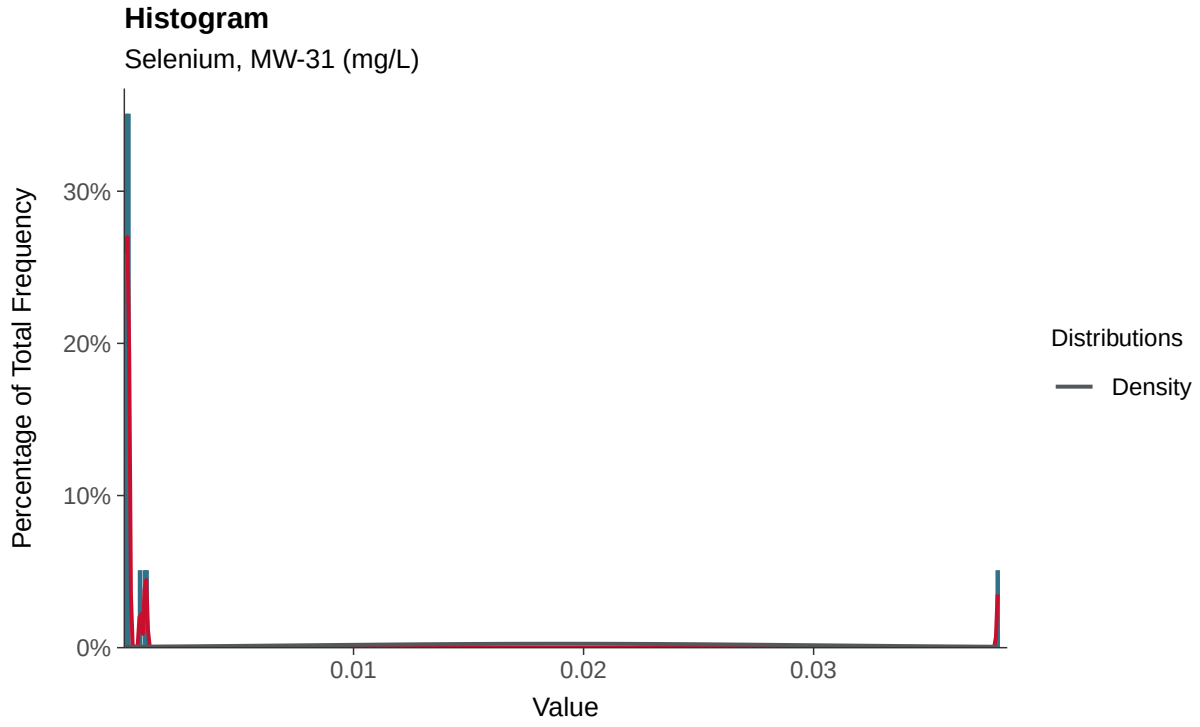
Radium 226 and 228, MW-31 (pCi/L)



Appendix IV: Selenium, MW-31

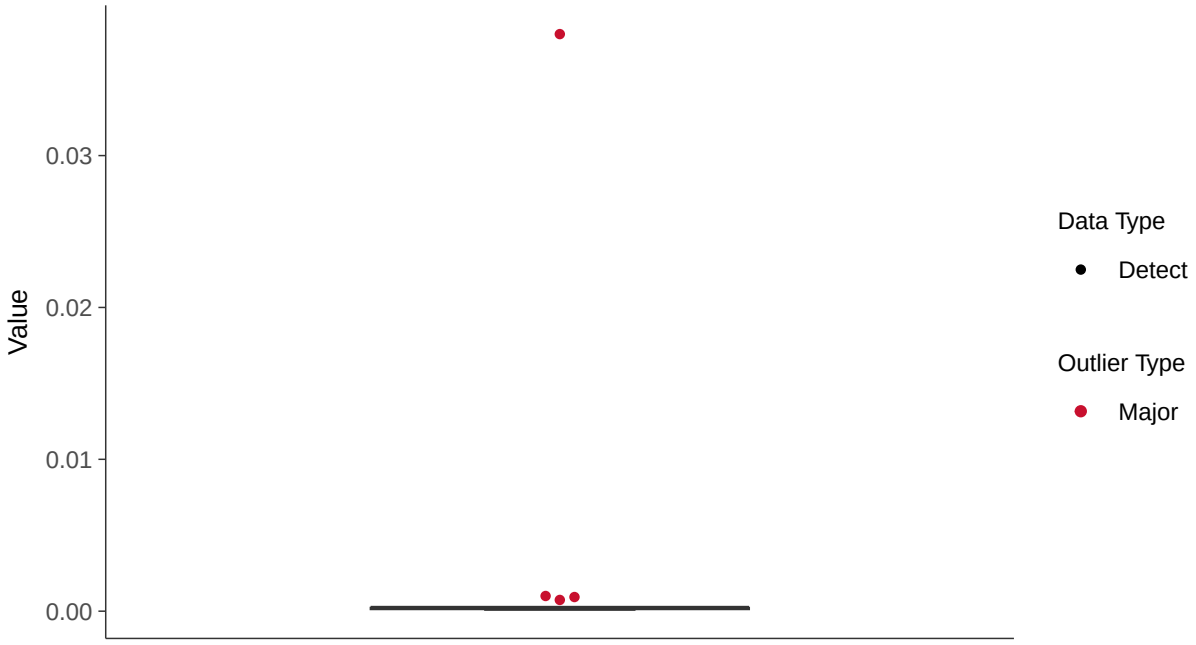
ID: 41_1_4_122





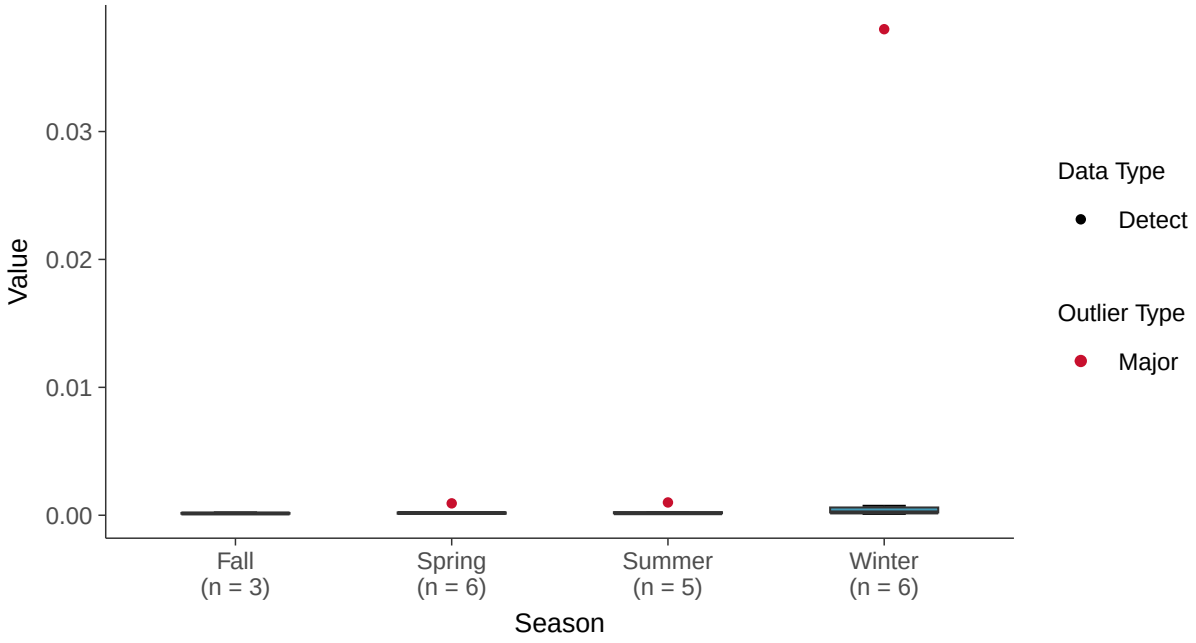
Boxplot

Selenium, MW-31 (mg/L)



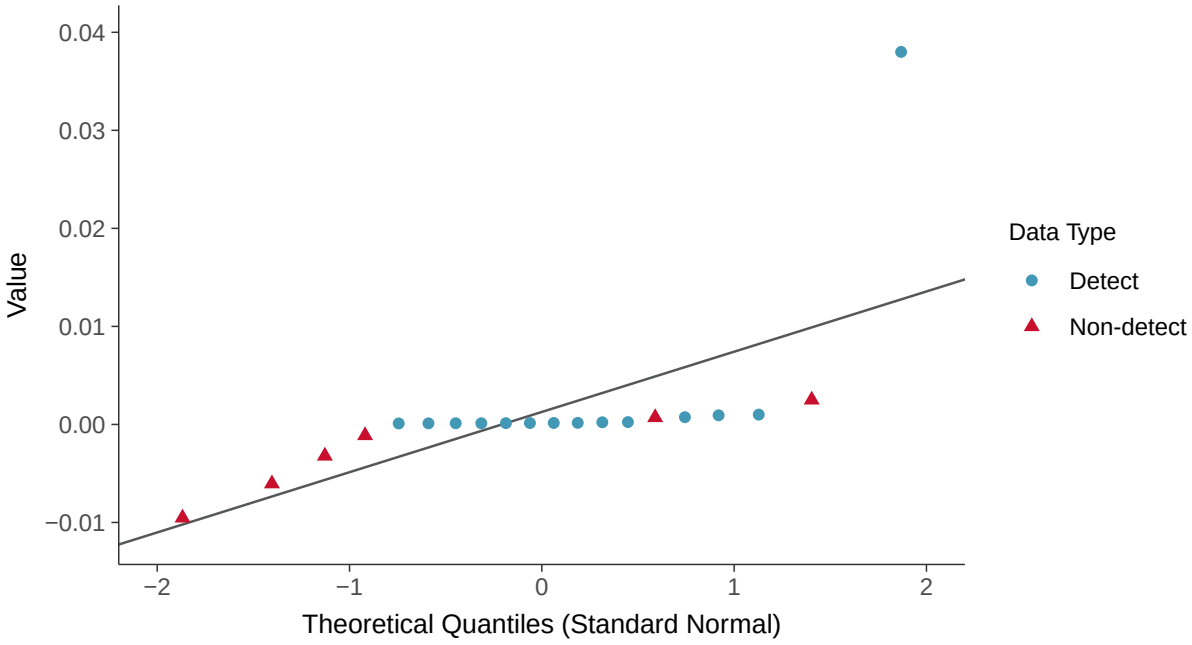
Boxplot by Season

Selenium, MW-31 (mg/L)



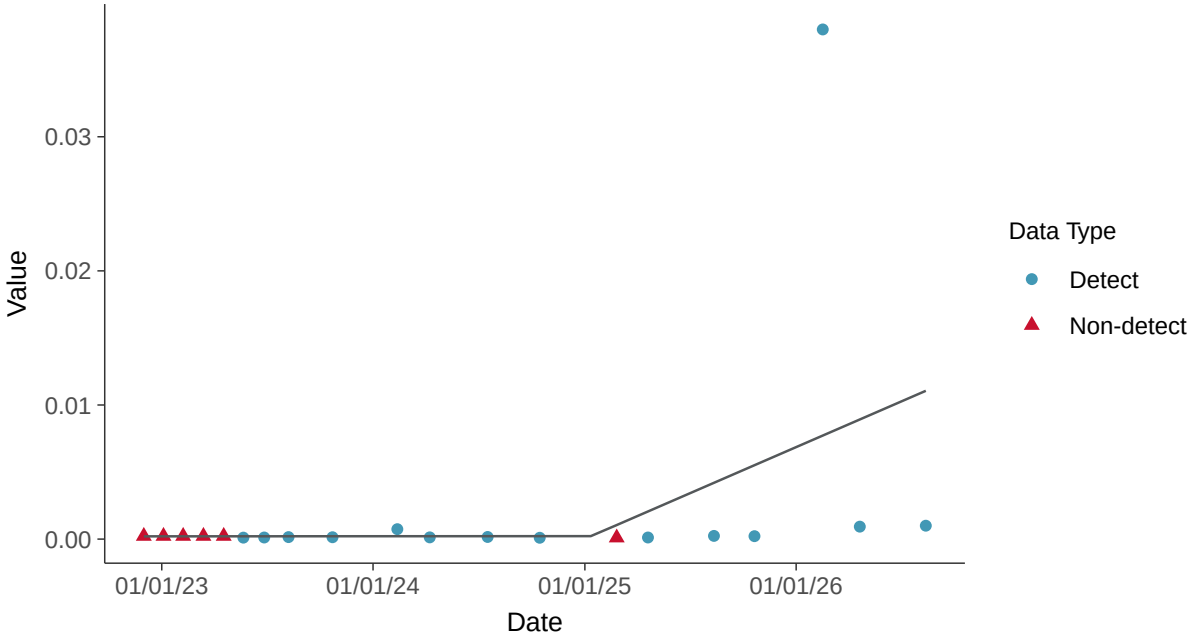
Normal Q-Q plot using ROS Imputed Estimates

Selenium, MW-31 (mg/L)



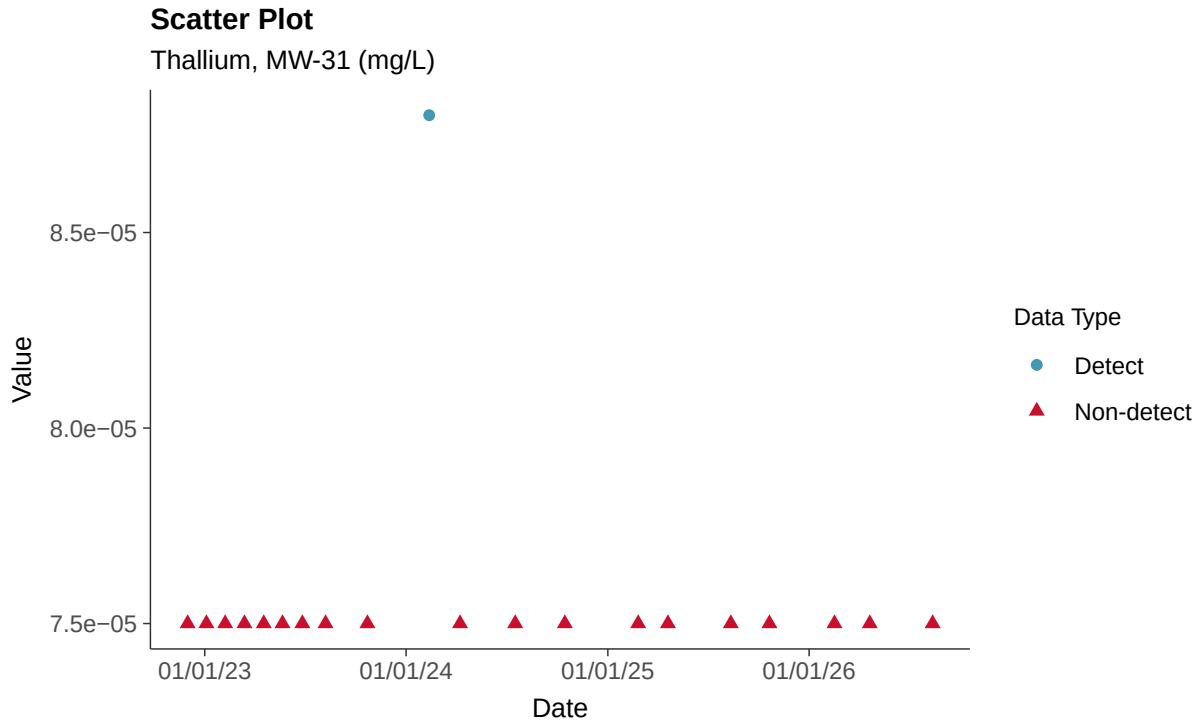
Trend Regression: Piecewise Linear-Linear

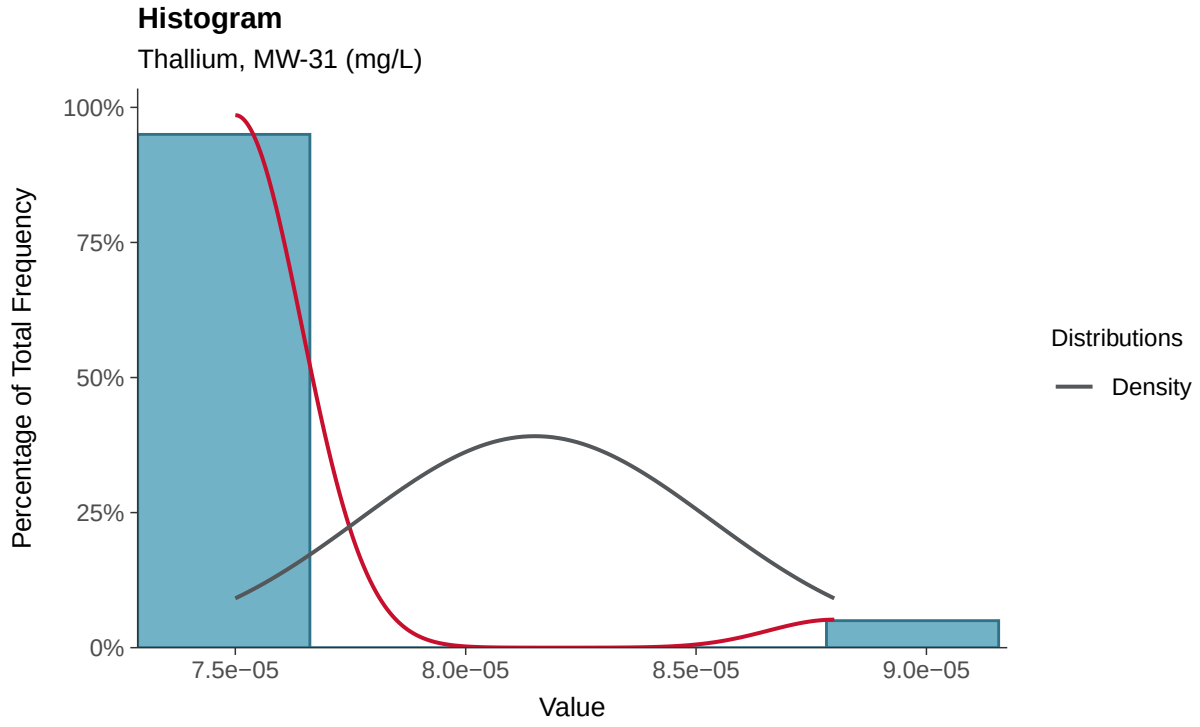
Selenium, MW-31 (mg/L)



Appendix IV: Thallium, MW-31

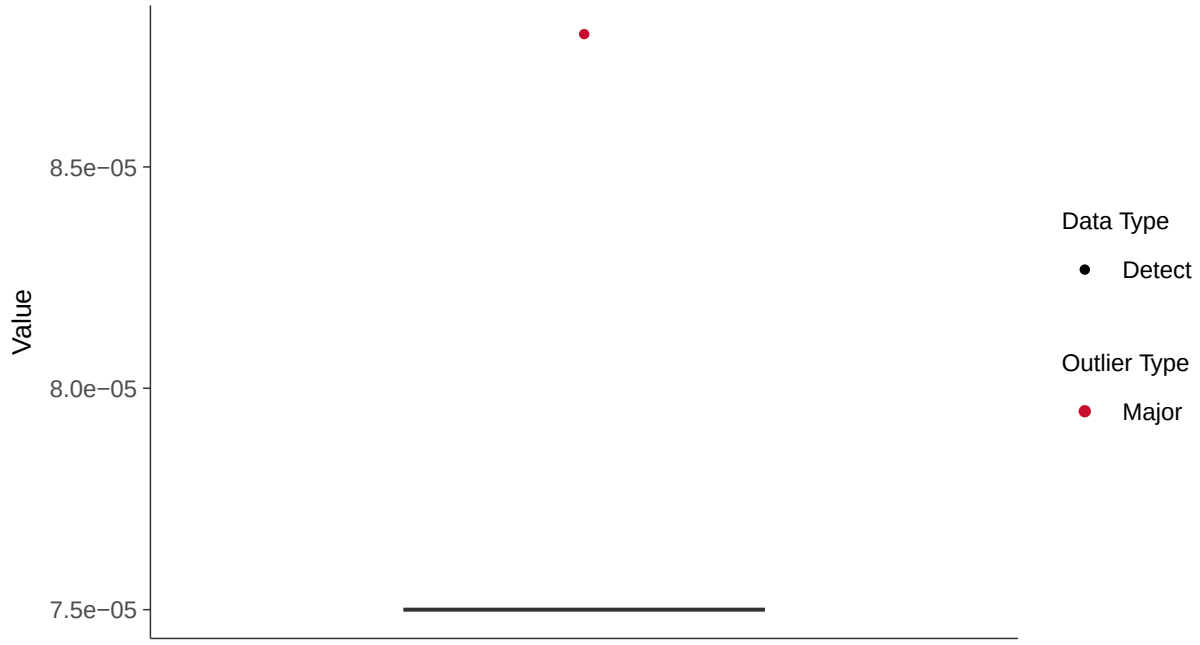
ID: 41_1_4_125





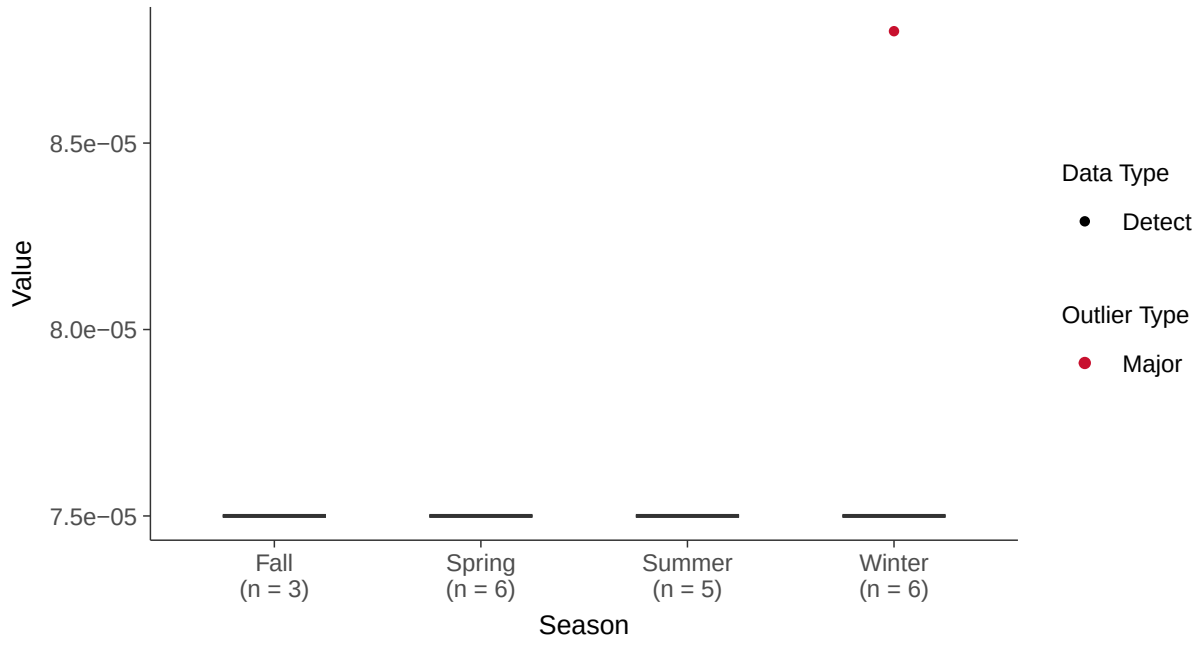
Boxplot

Thallium, MW-31 (mg/L)



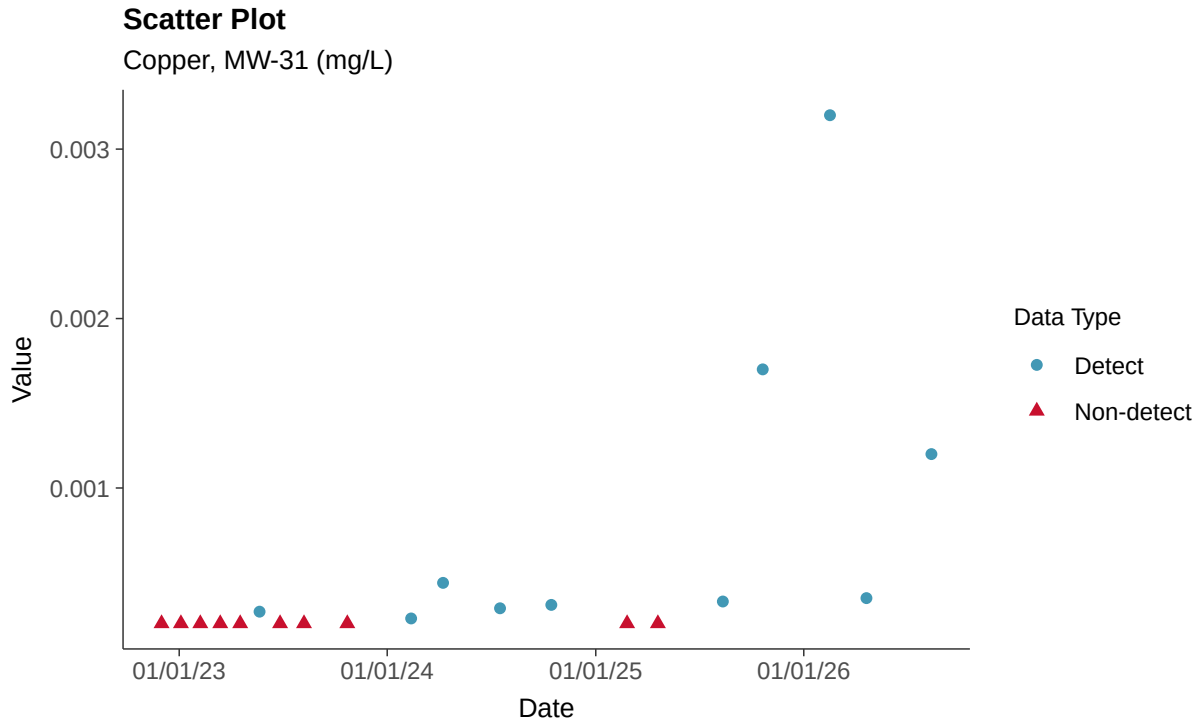
Boxplot by Season

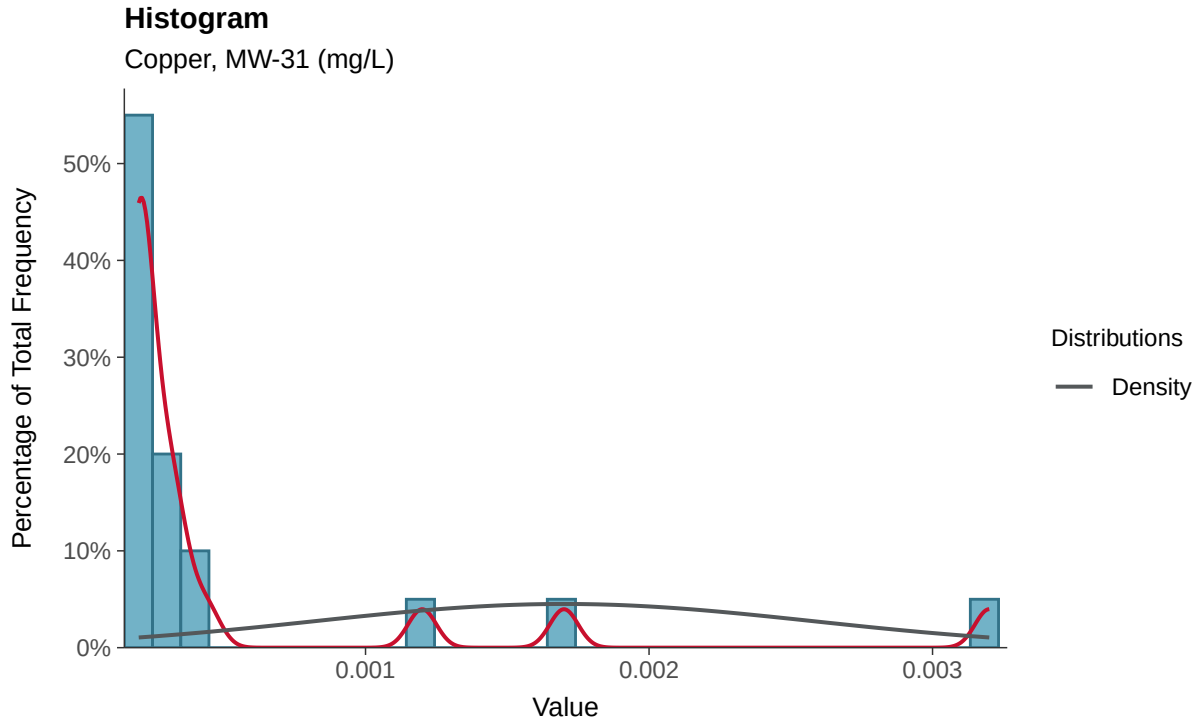
Thallium, MW-31 (mg/L)



Part 115: Copper, MW-31

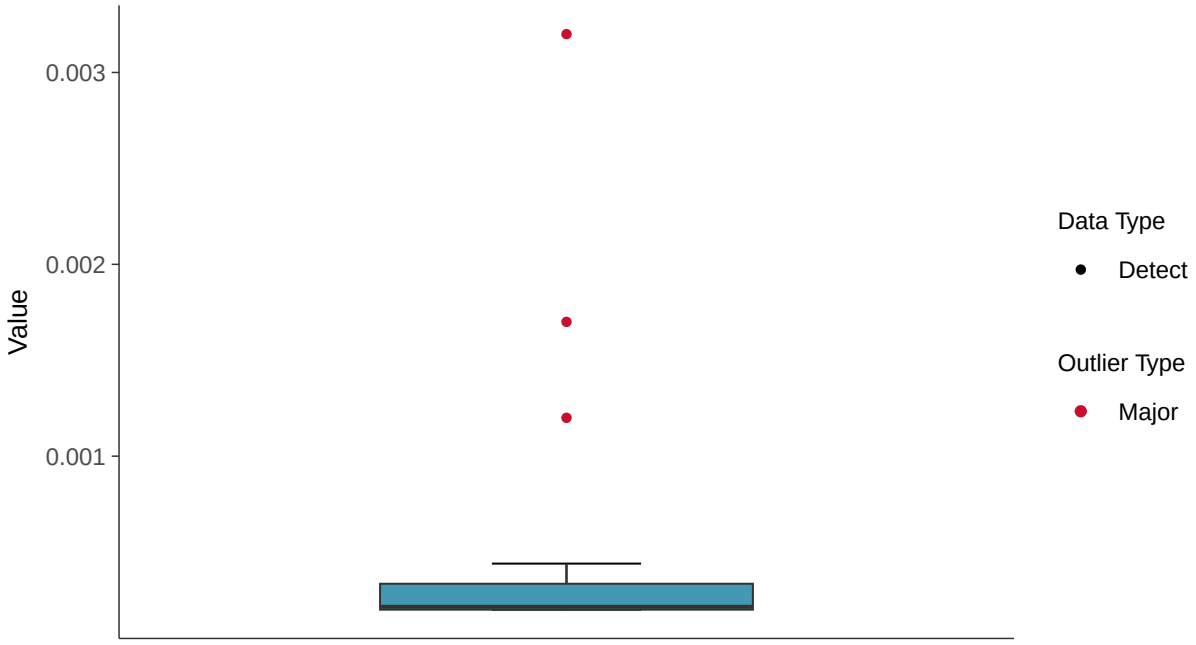
ID: 41_1_5_111





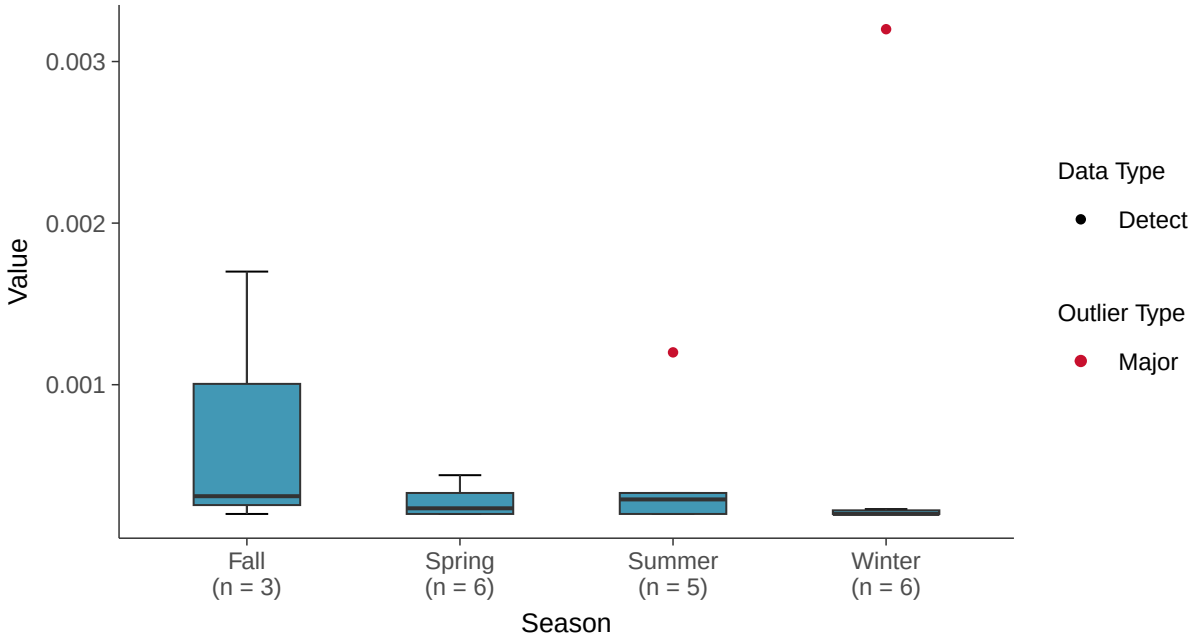
Boxplot

Copper, MW-31 (mg/L)



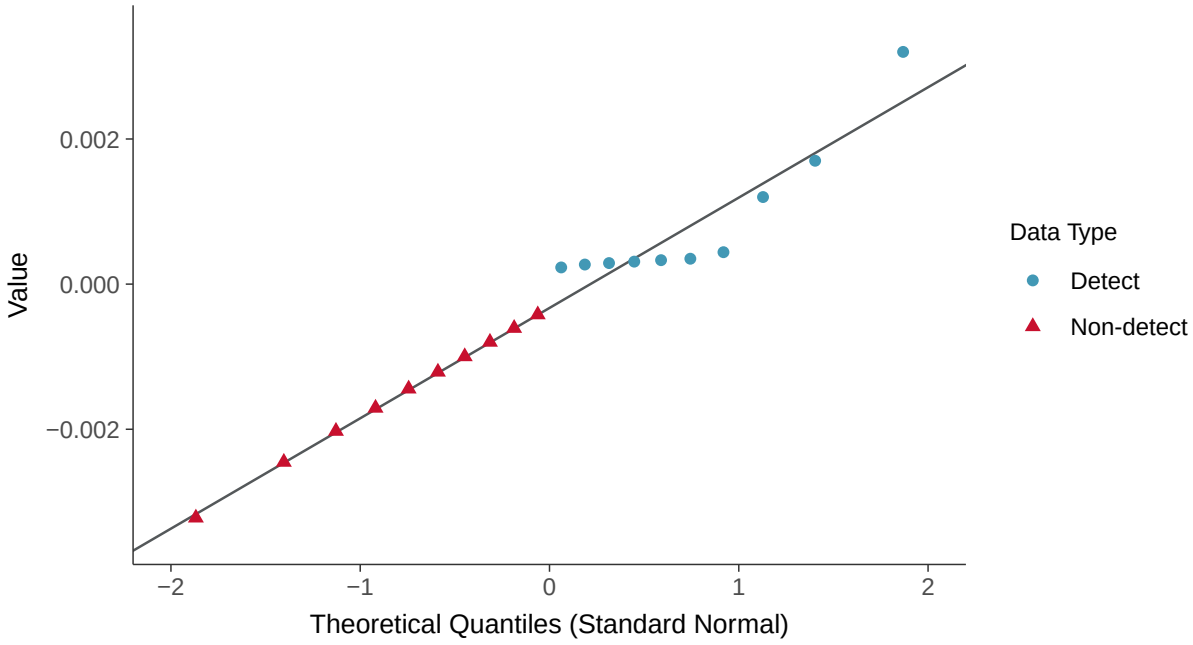
Boxplot by Season

Copper, MW-31 (mg/L)



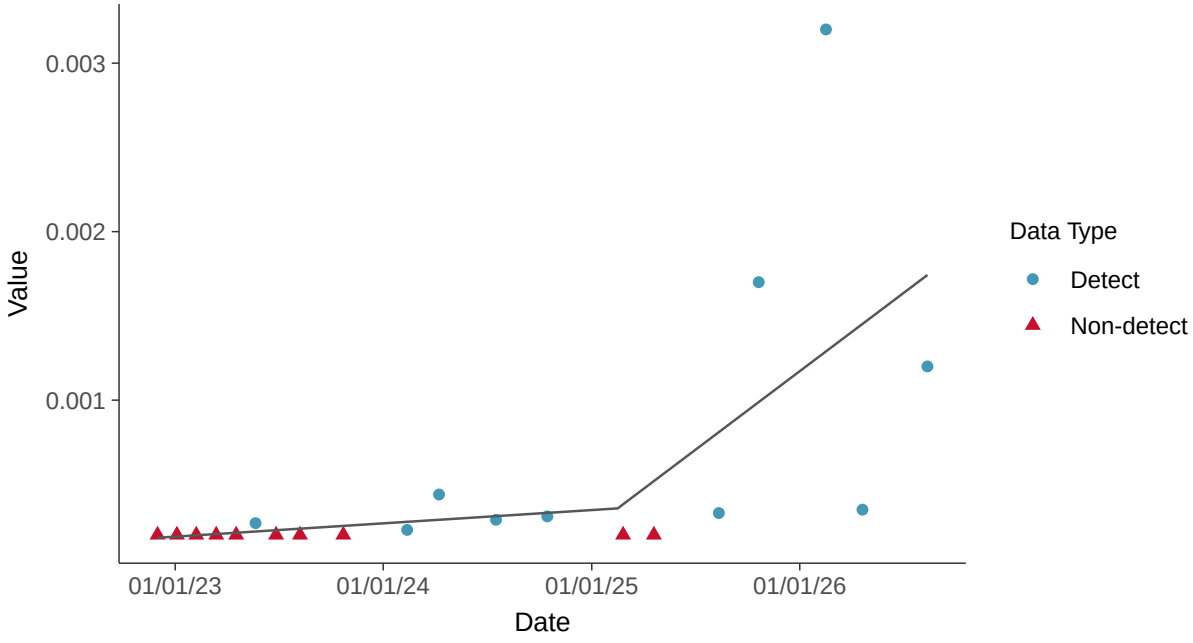
Normal Q-Q plot using ROS Imputed Estimates

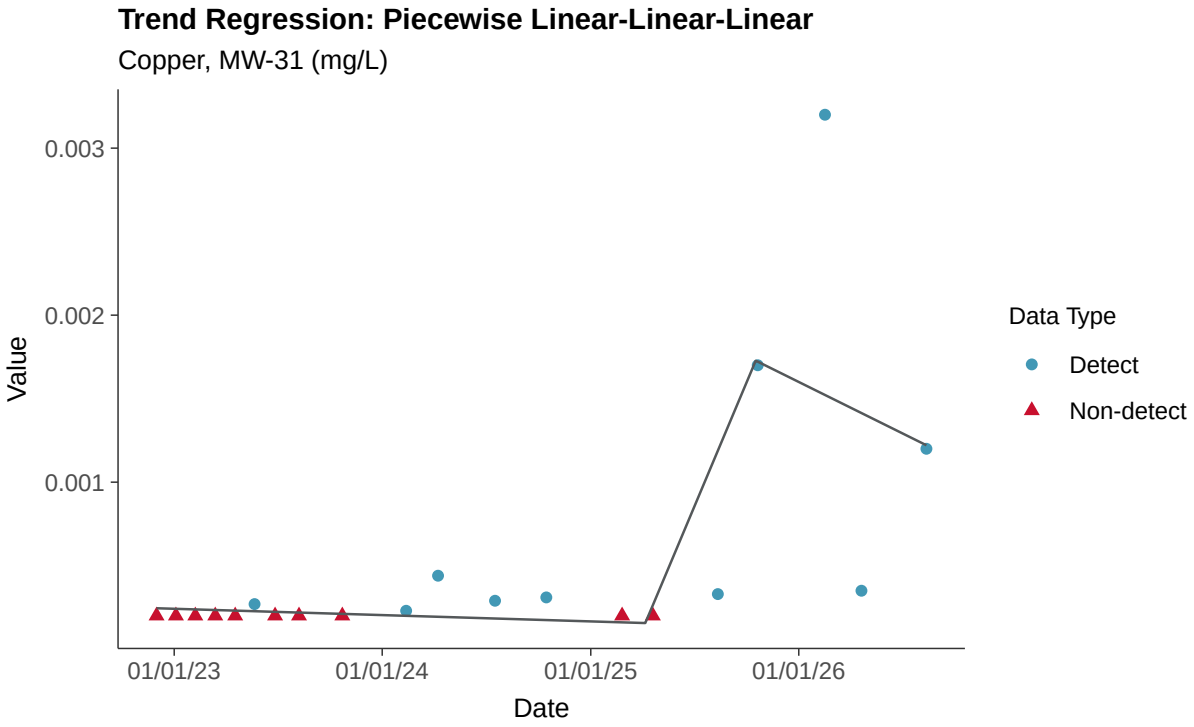
Copper, MW-31 (mg/L)



Trend Regression: Piecewise Linear-Linear

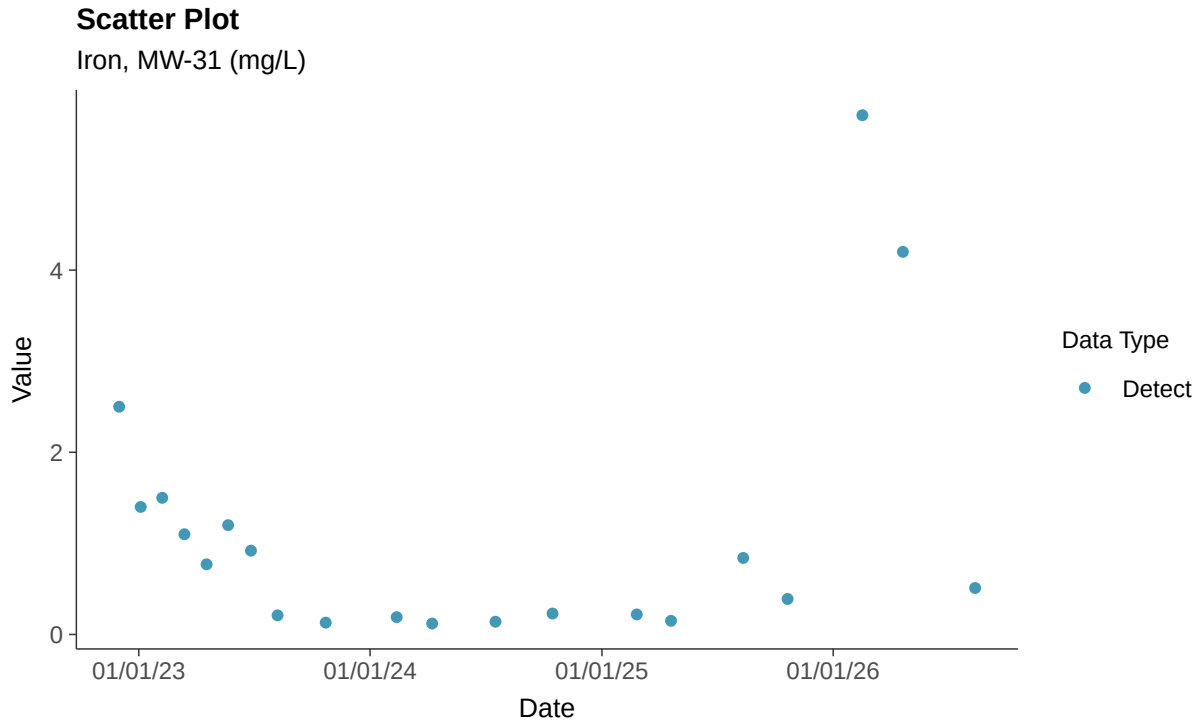
Copper, MW-31 (mg/L)

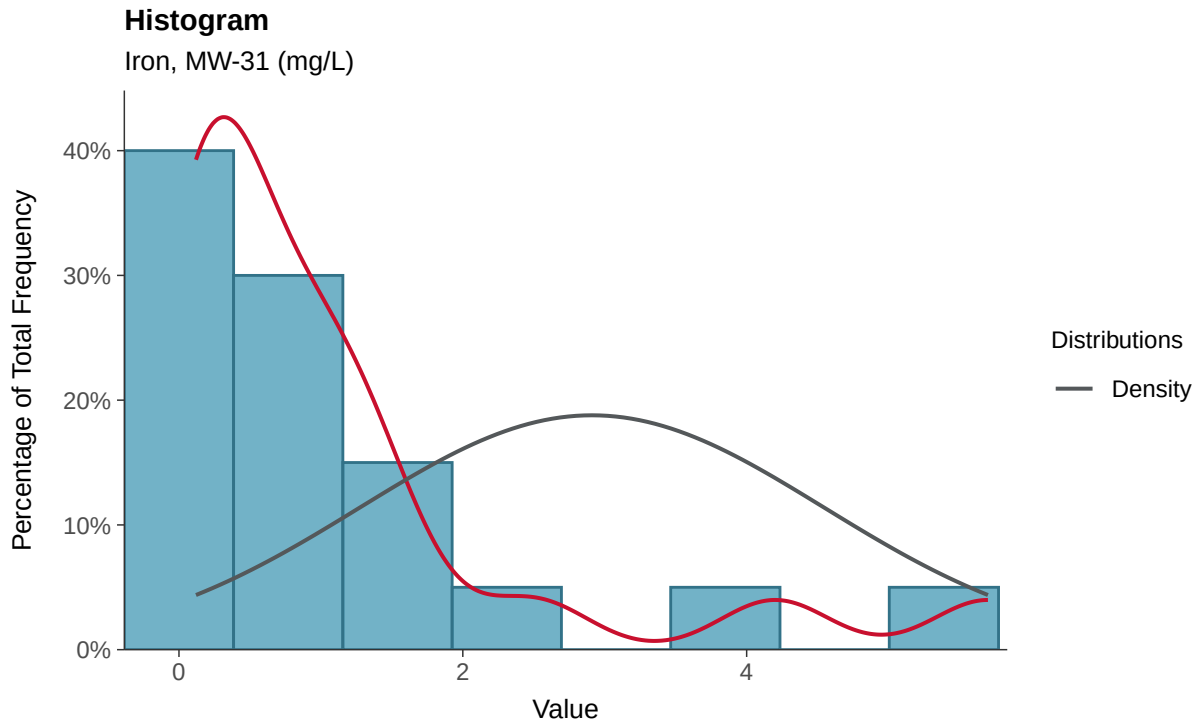



Trend Regression: Piecewise Linear-Linear-Linear
Copper, MW-31 (mg/L)
0.003
0.002
0.001
Value
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect
Non-detect

Part 115: Iron, MW-31

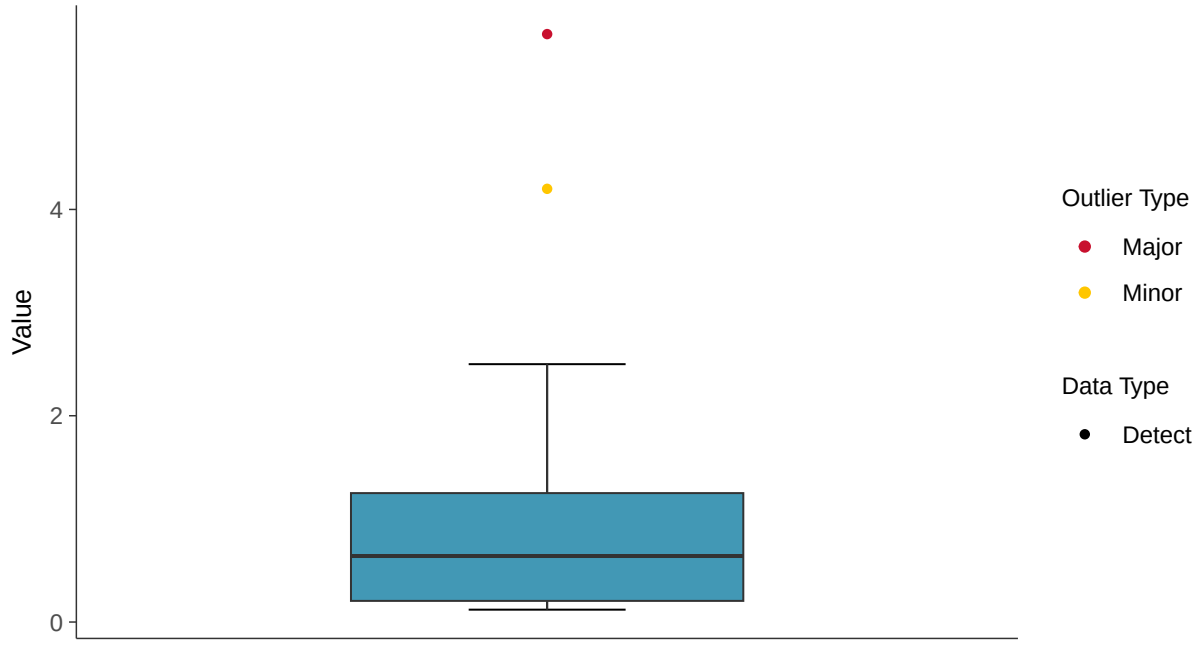
ID: 41_1_5_114





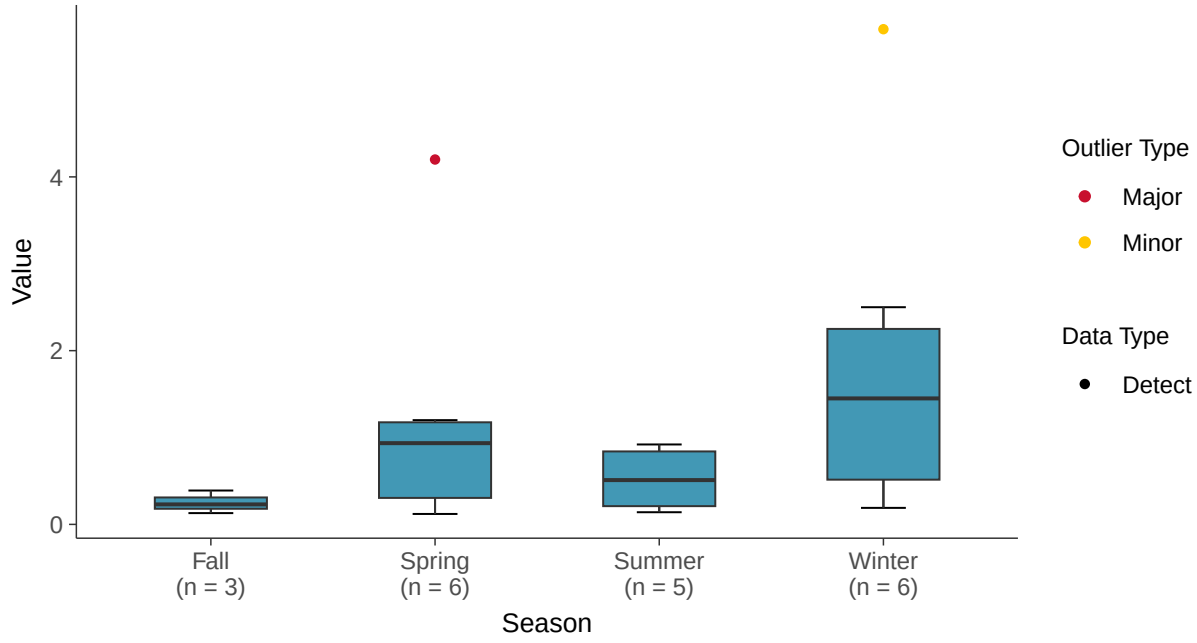
Boxplot

Iron, MW-31 (mg/L)



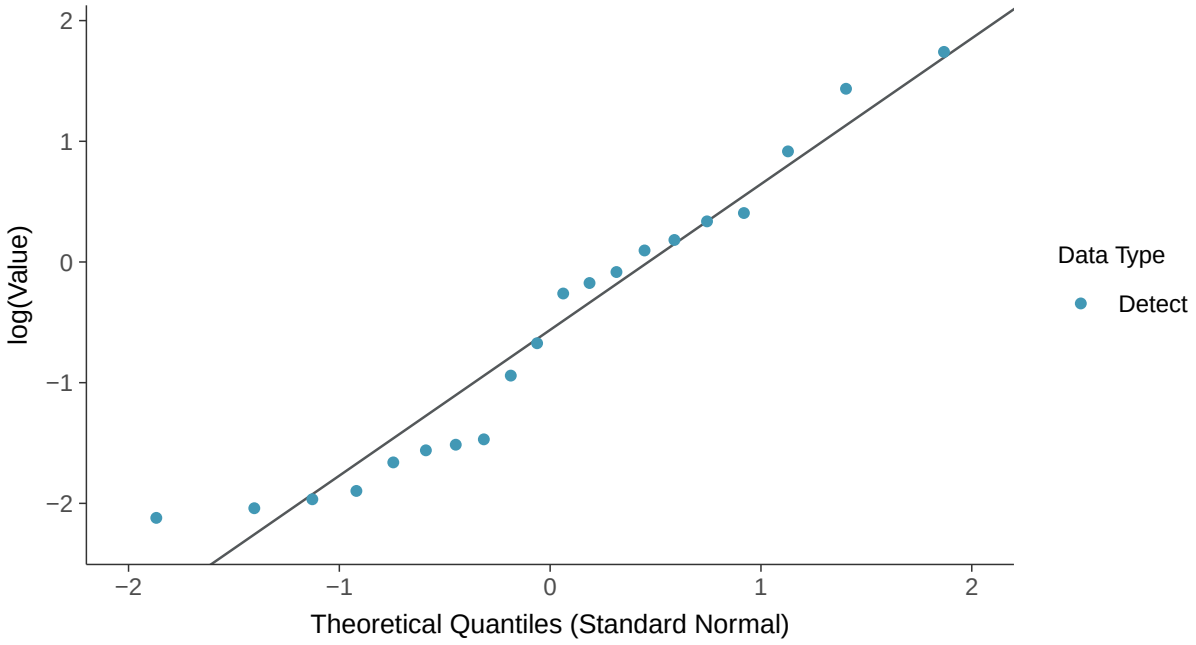
Boxplot by Season

Iron, MW-31 (mg/L)



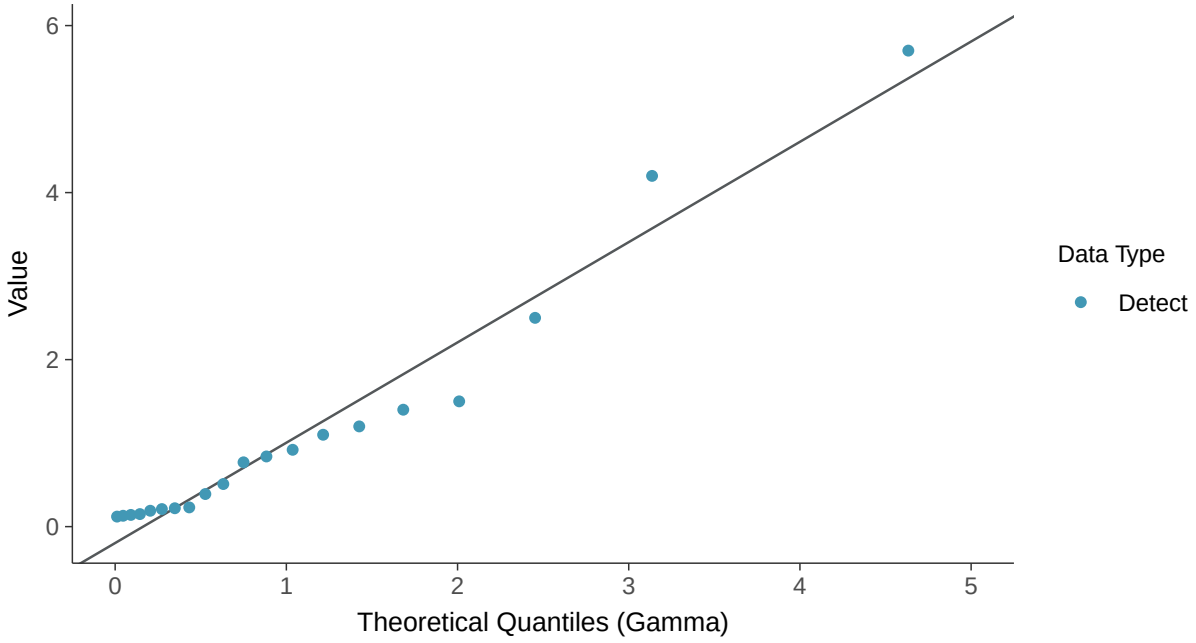
Lognormal Q-Q plot

Iron, MW-31 (mg/L)



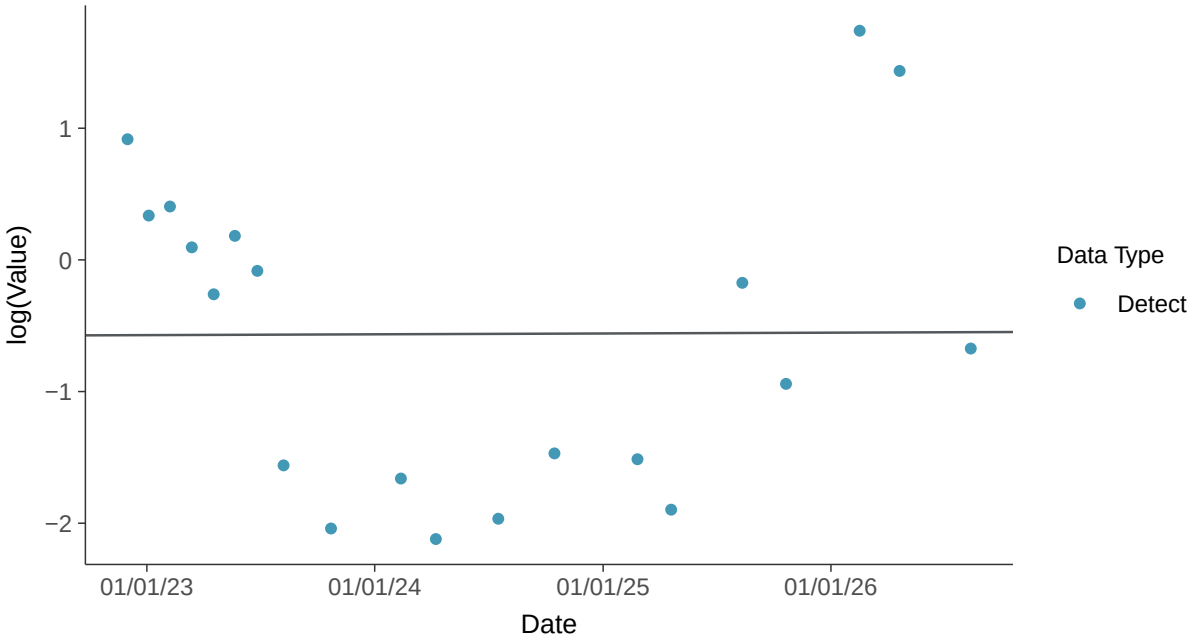
Gamma Q-Q plot

Iron, MW-31 (mg/L)



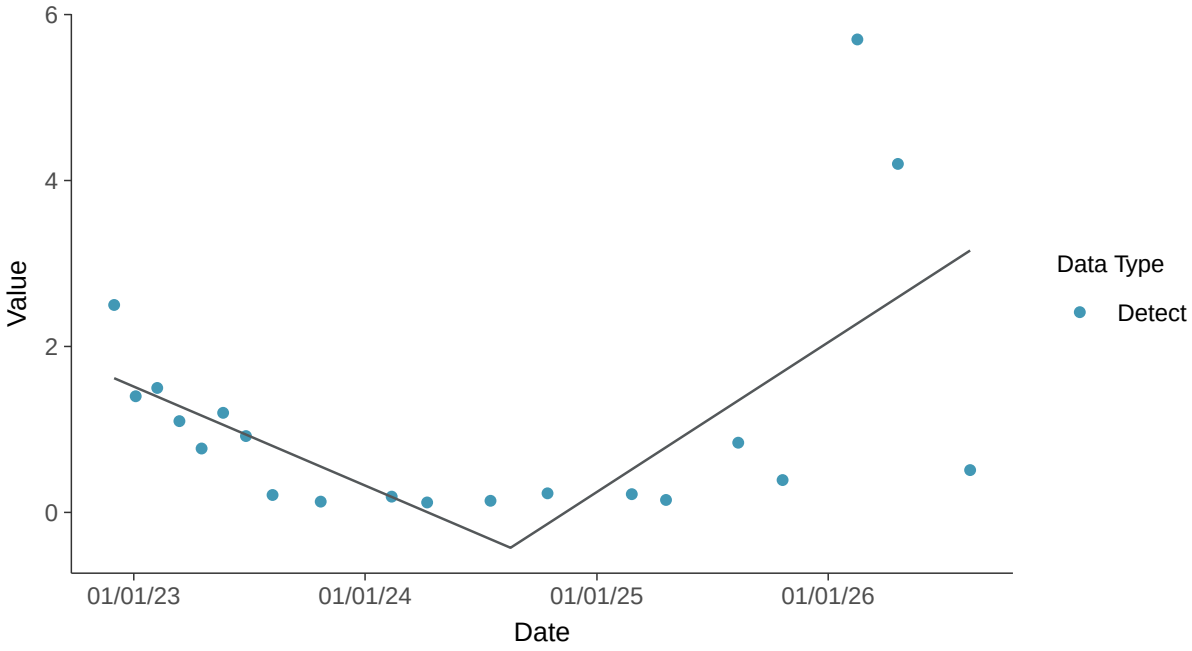
Trend Regression: Lognormal MLE

Iron, MW-31 (mg/L)



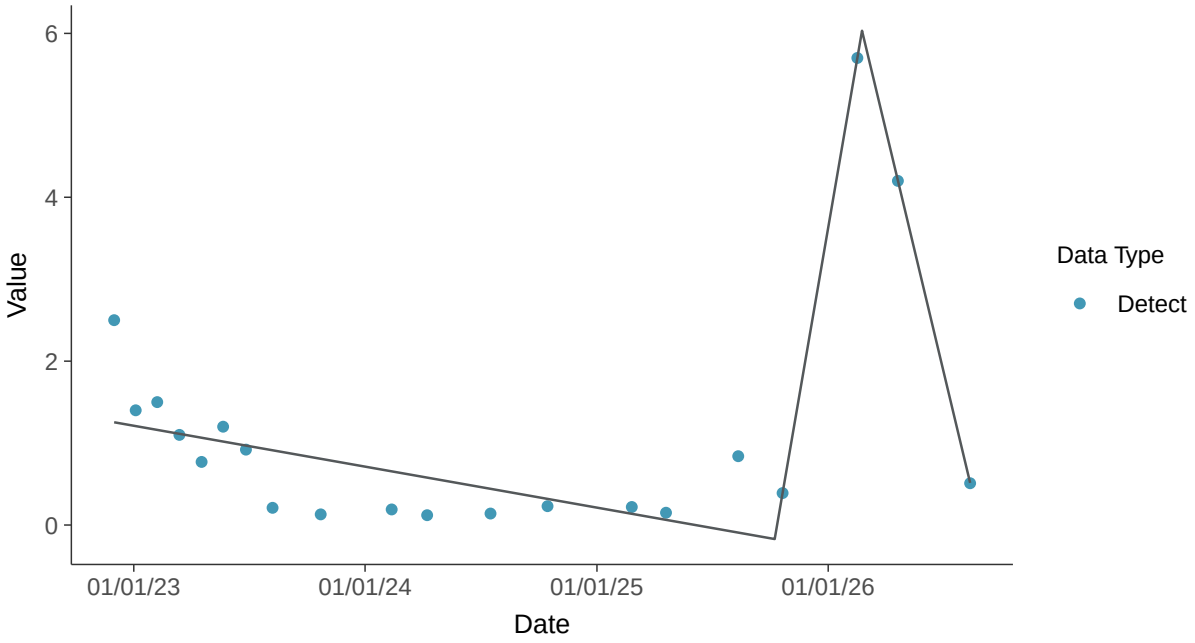
Trend Regression: Piecewise Linear-Linear

Iron, MW-31 (mg/L)



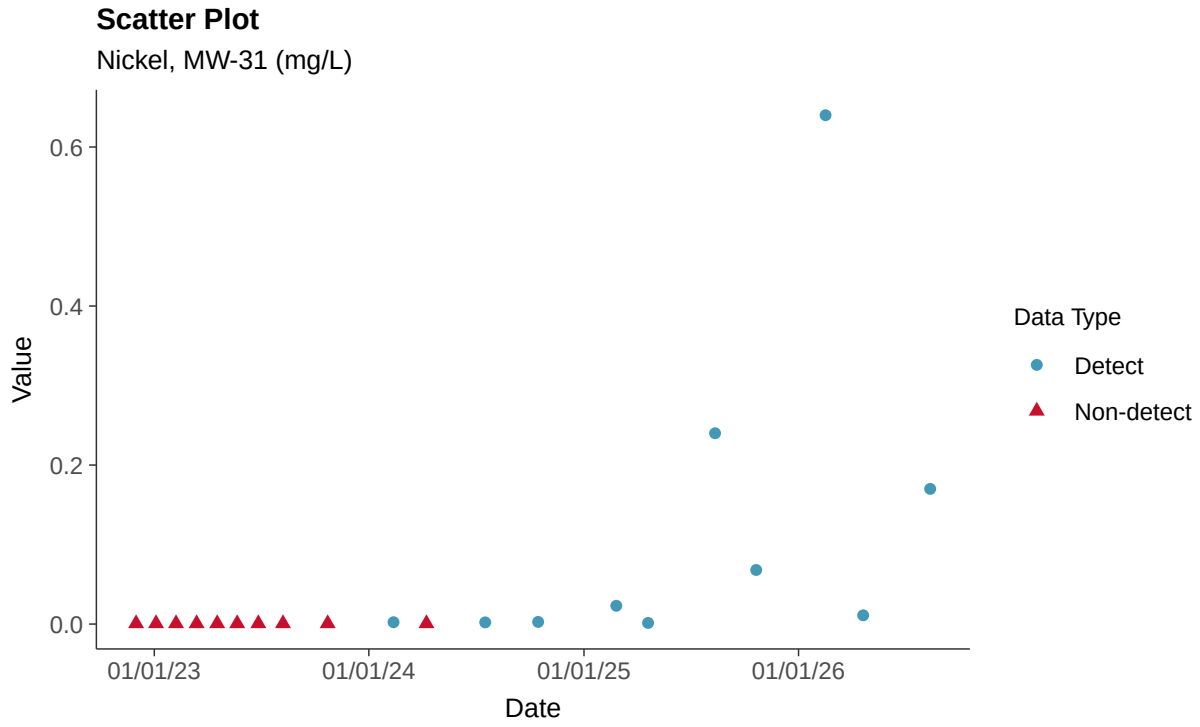
Trend Regression: Piecewise Linear-Linear-Linear

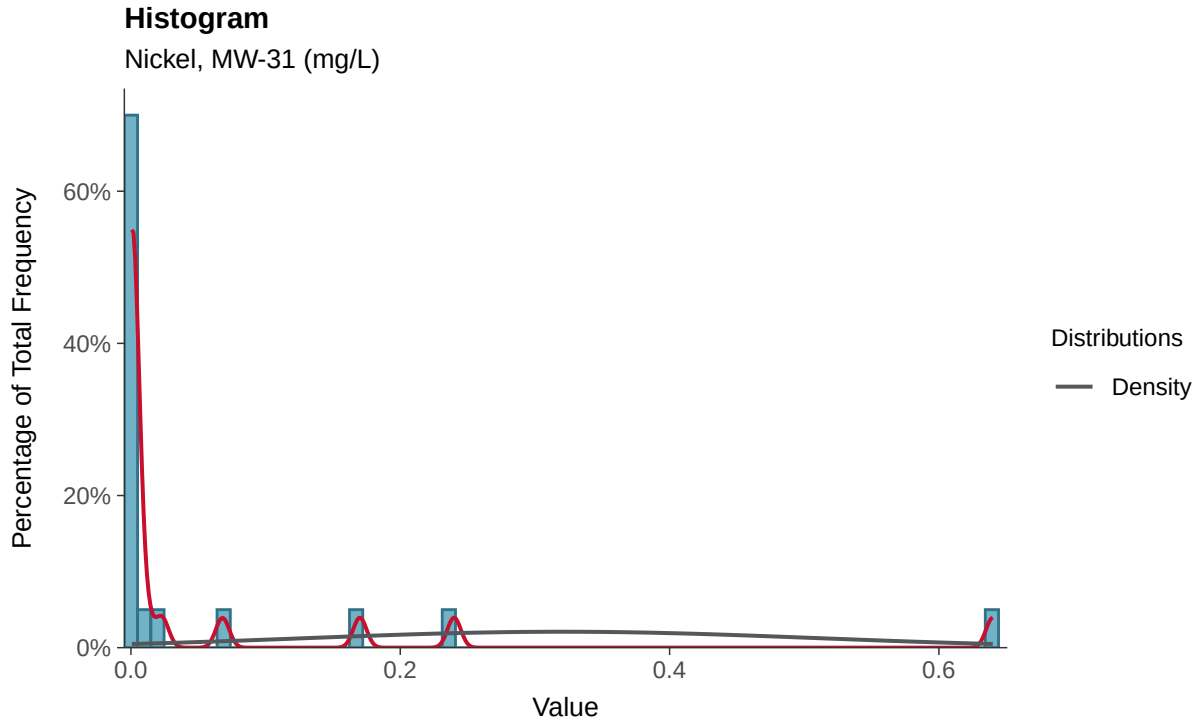
Iron, MW-31 (mg/L)



Part 115: Nickel, MW-31

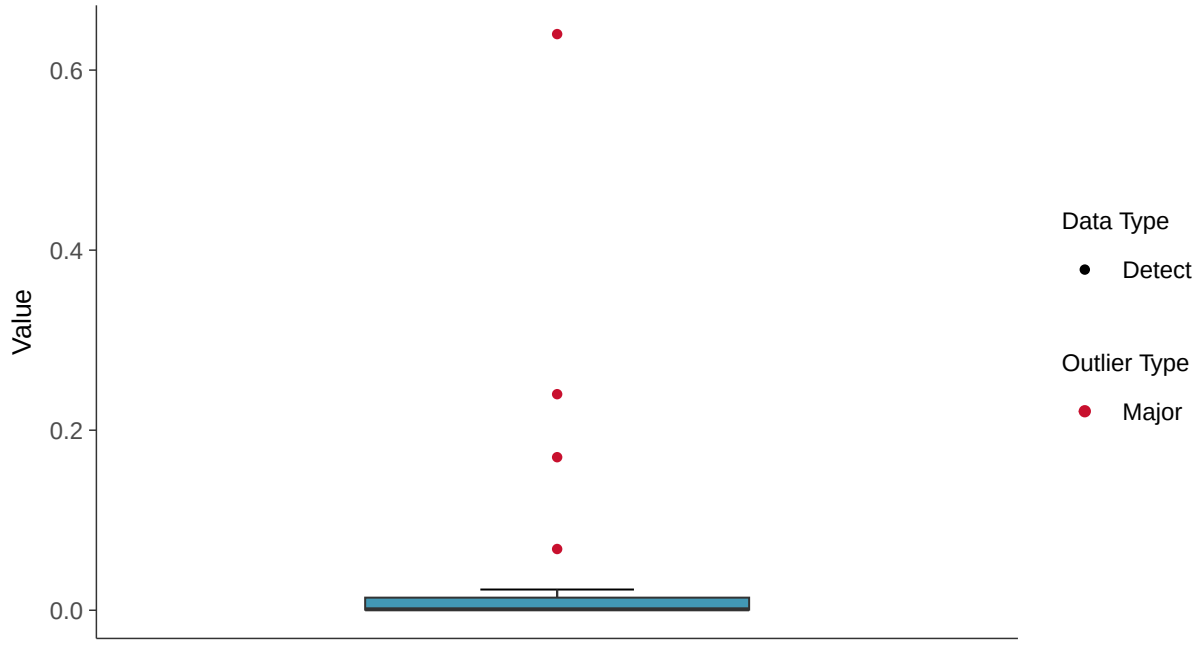
ID: 41_1_5_119





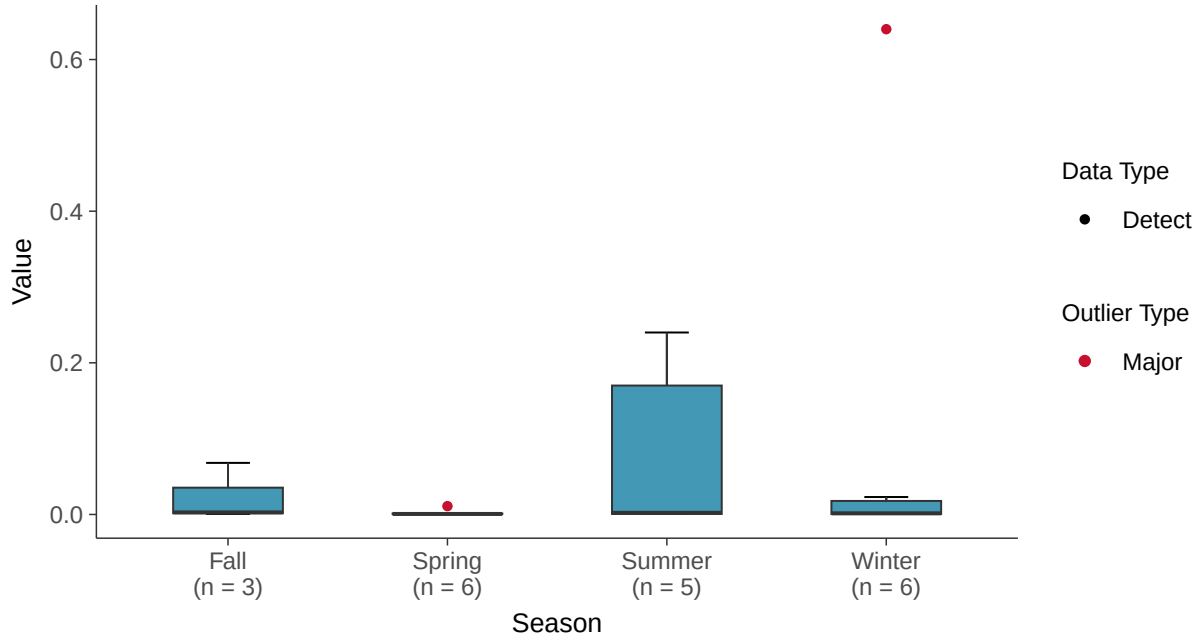
Boxplot

Nickel, MW-31 (mg/L)



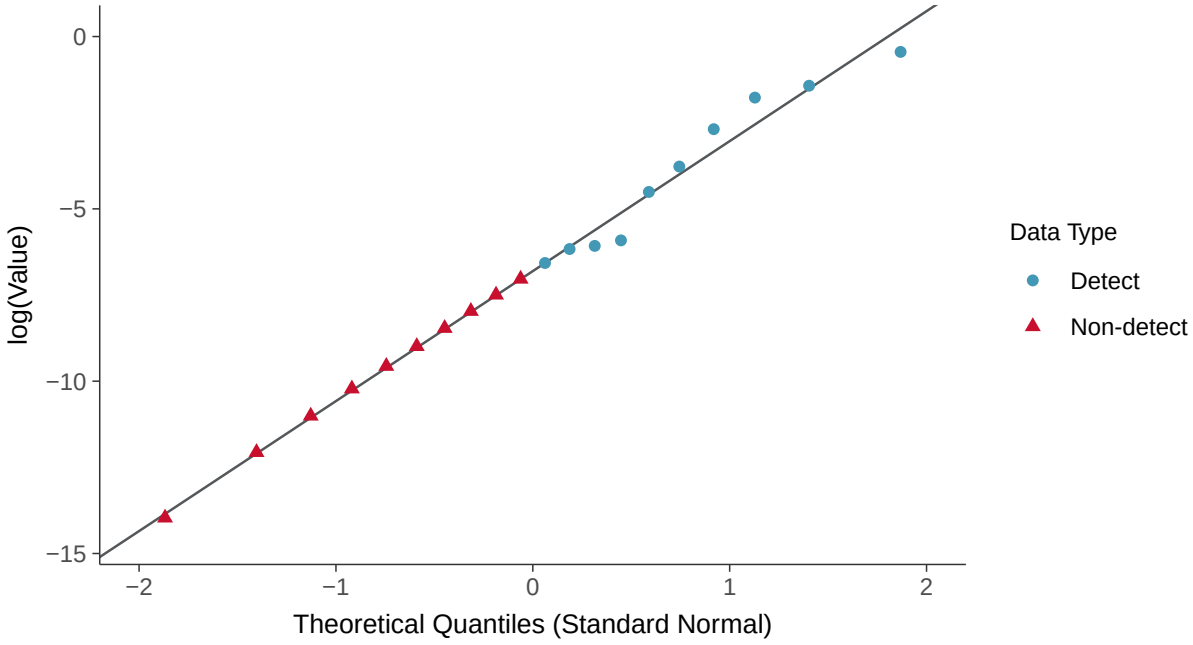
Boxplot by Season

Nickel, MW-31 (mg/L)



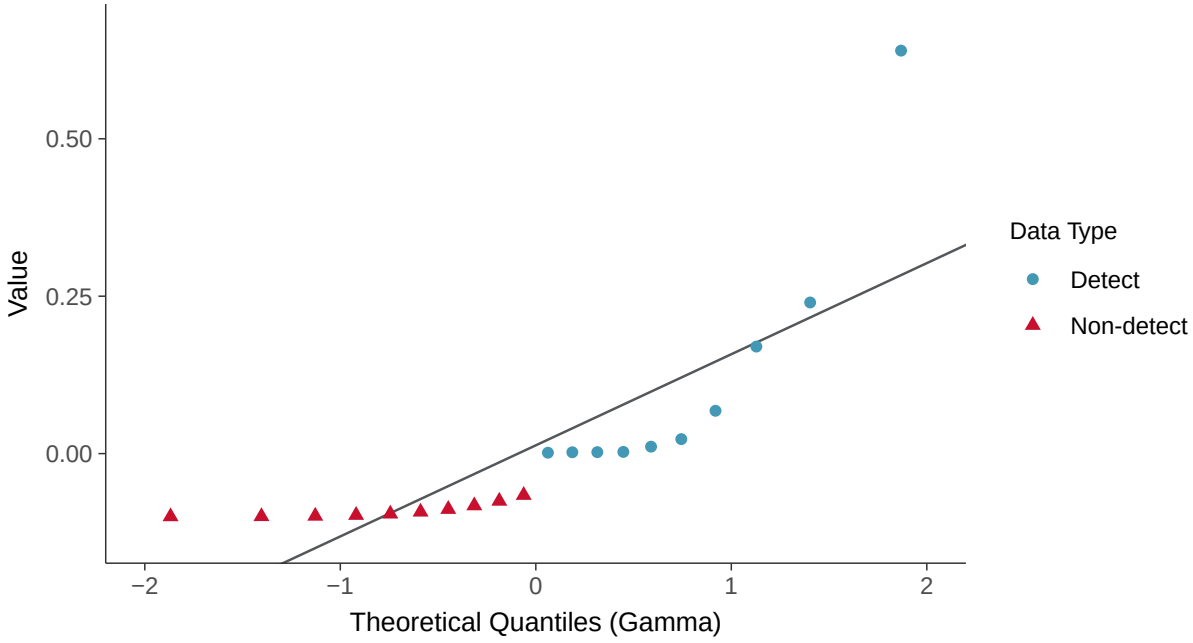
Lognormal Q-Q plot using ROS Imputed Estimates

Nickel, MW-31 (mg/L)



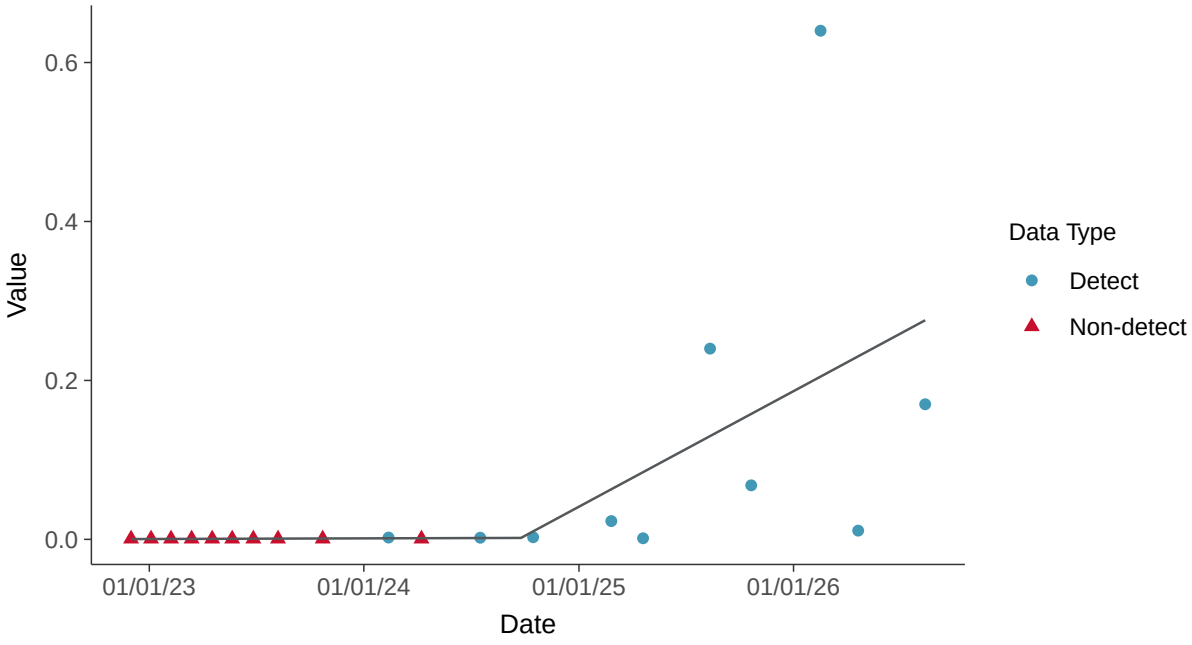
Gamma Q-Q plot using ROS Imputed Estimates

Nickel, MW-31 (mg/L)



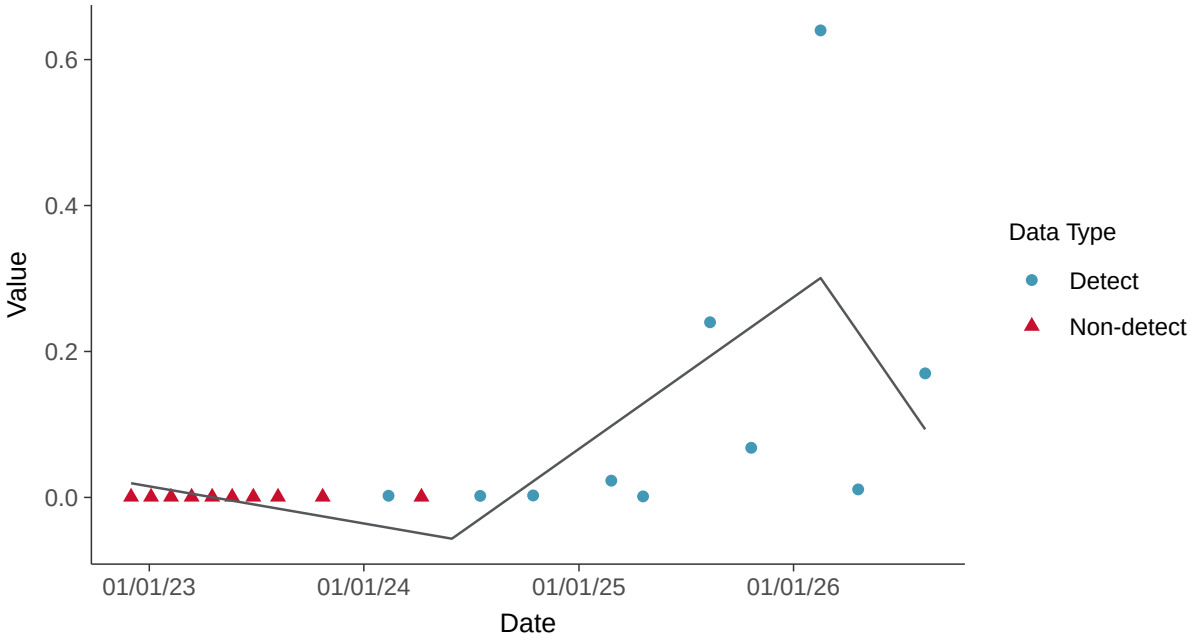
Trend Regression: Piecewise Linear-Linear

Nickel, MW-31 (mg/L)



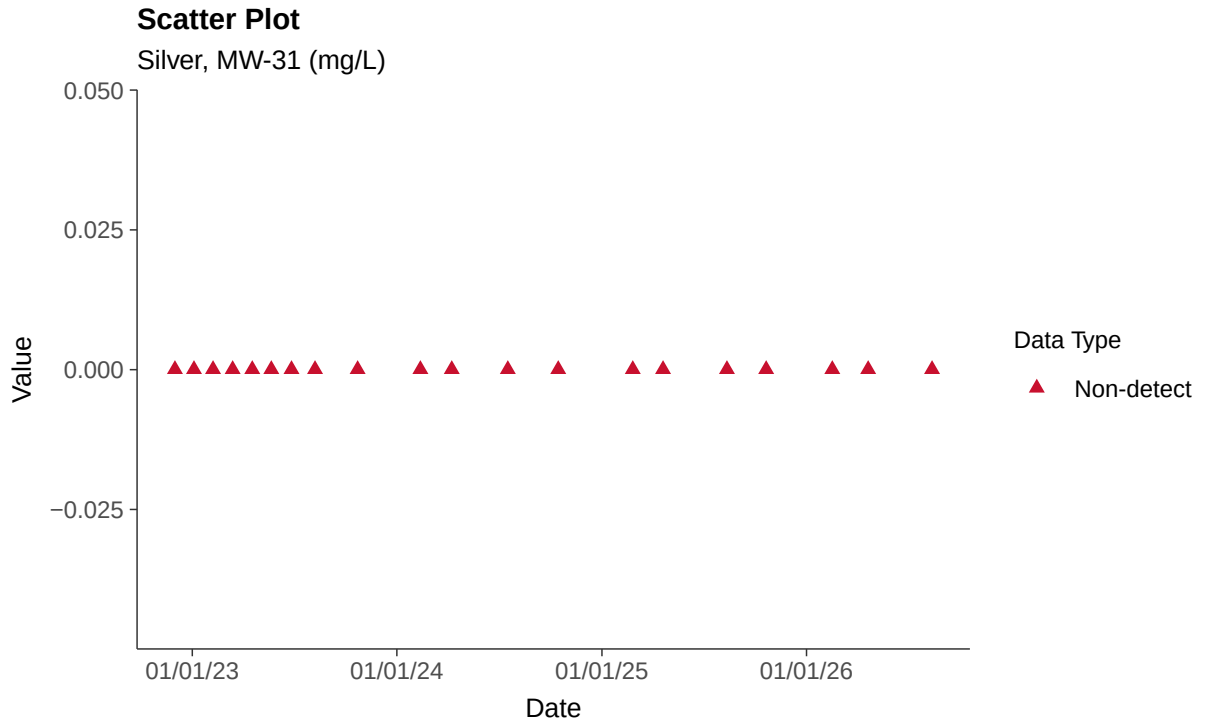
Trend Regression: Piecewise Linear-Linear-Linear

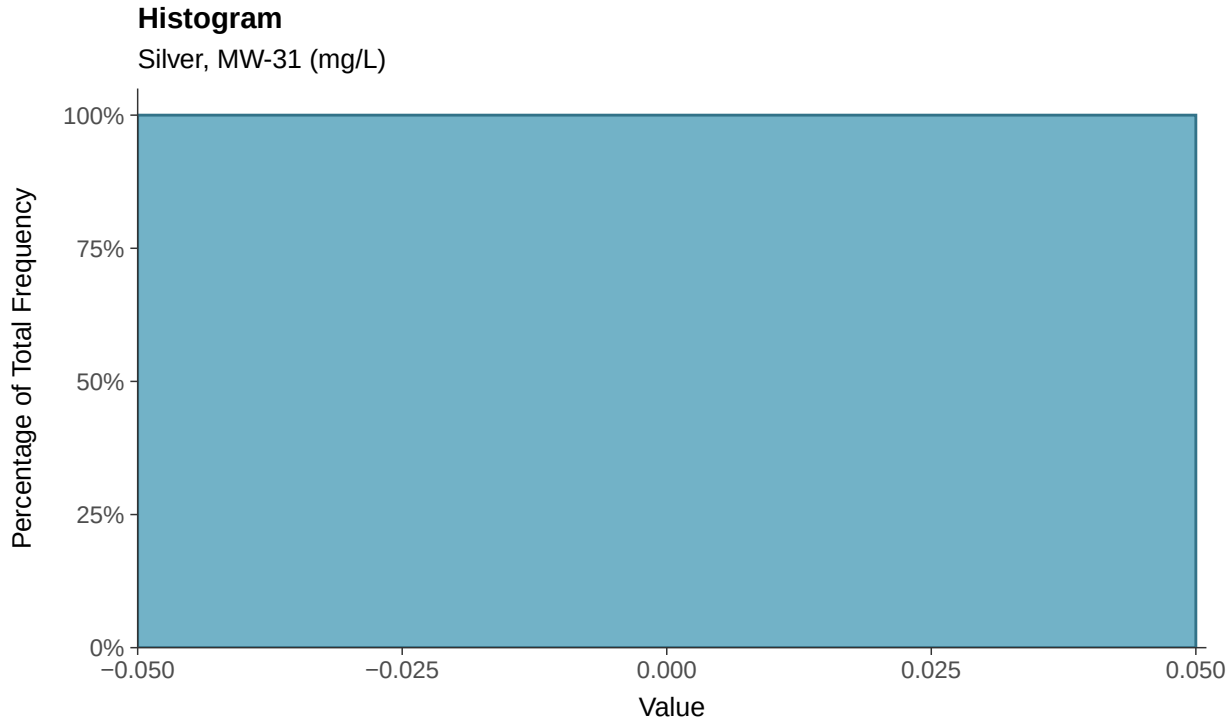
Nickel, MW-31 (mg/L)



Part 115: Silver, MW-31

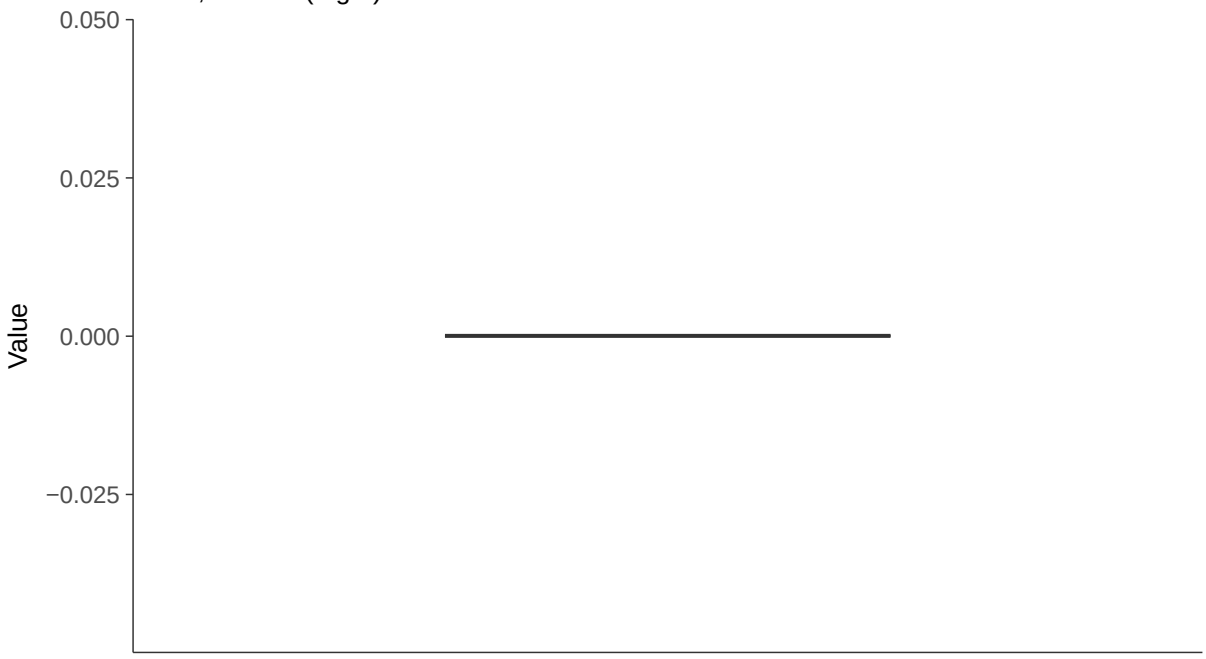
ID: 41_1_5_123





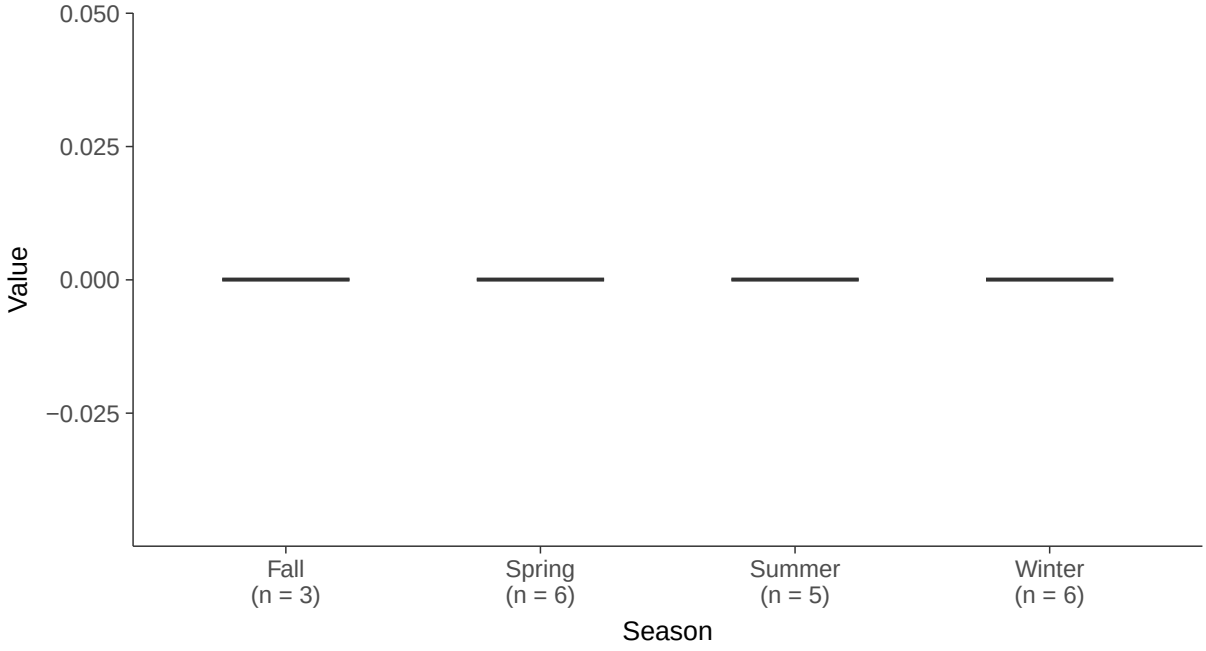
Boxplot

Silver, MW-31 (mg/L)



Boxplot by Season

Silver, MW-31 (mg/L)

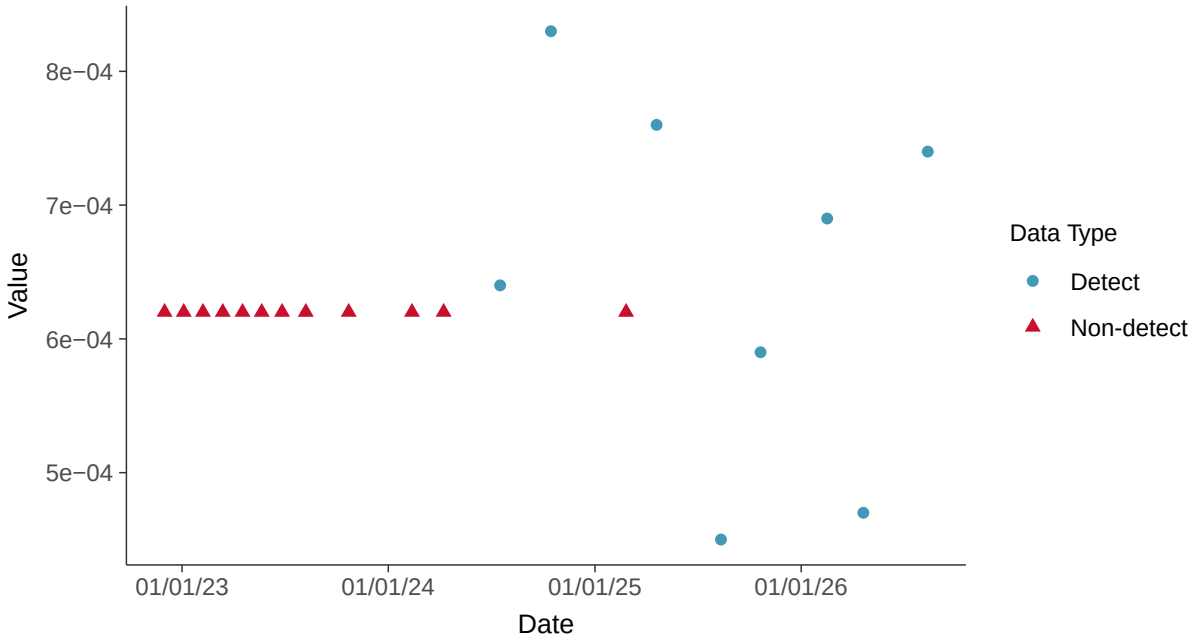


Part 115: Vanadium, MW-31

ID: 41_1_5_128

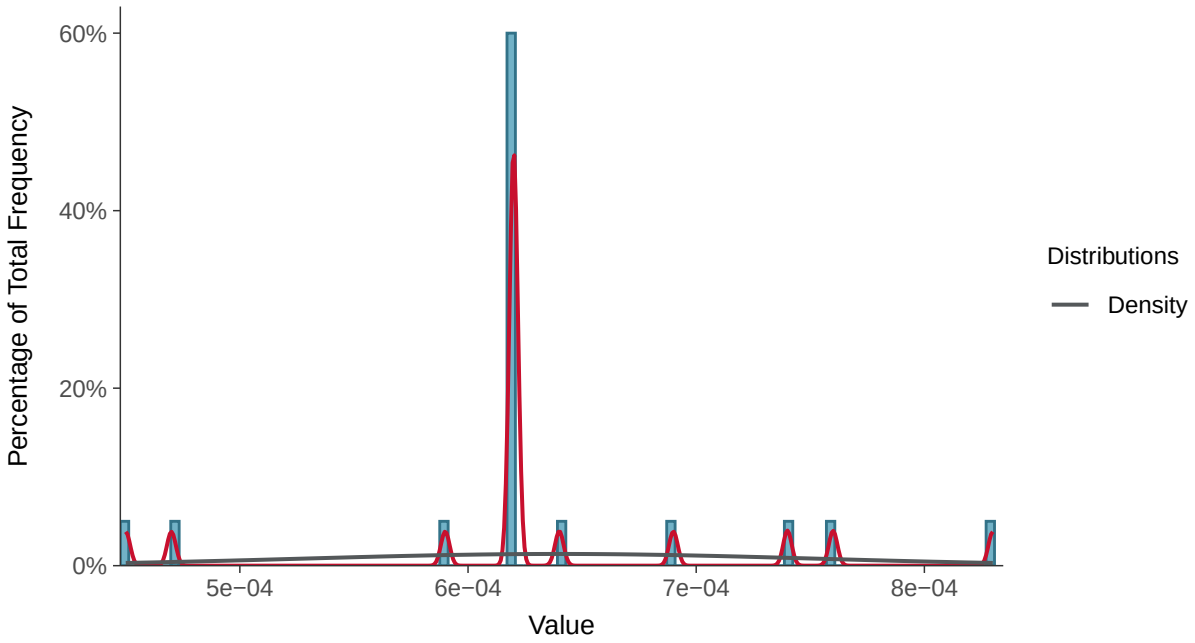
Scatter Plot

Vanadium, MW-31 (mg/L)



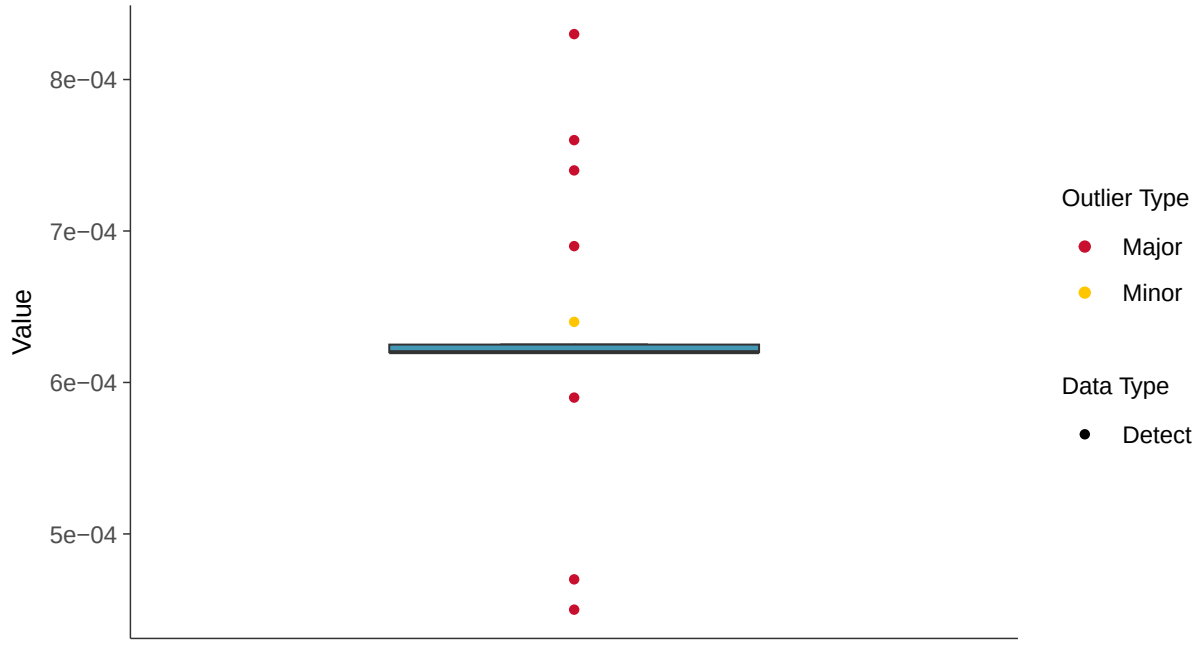
Histogram

Vanadium, MW-31 (mg/L)



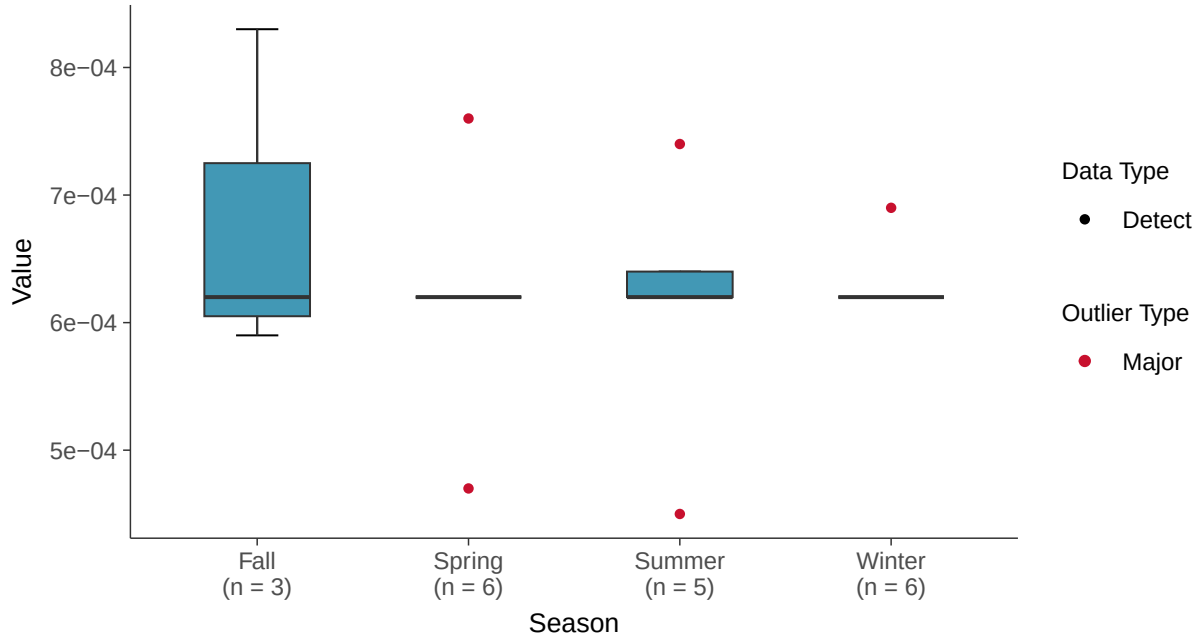
Boxplot

Vanadium, MW-31 (mg/L)



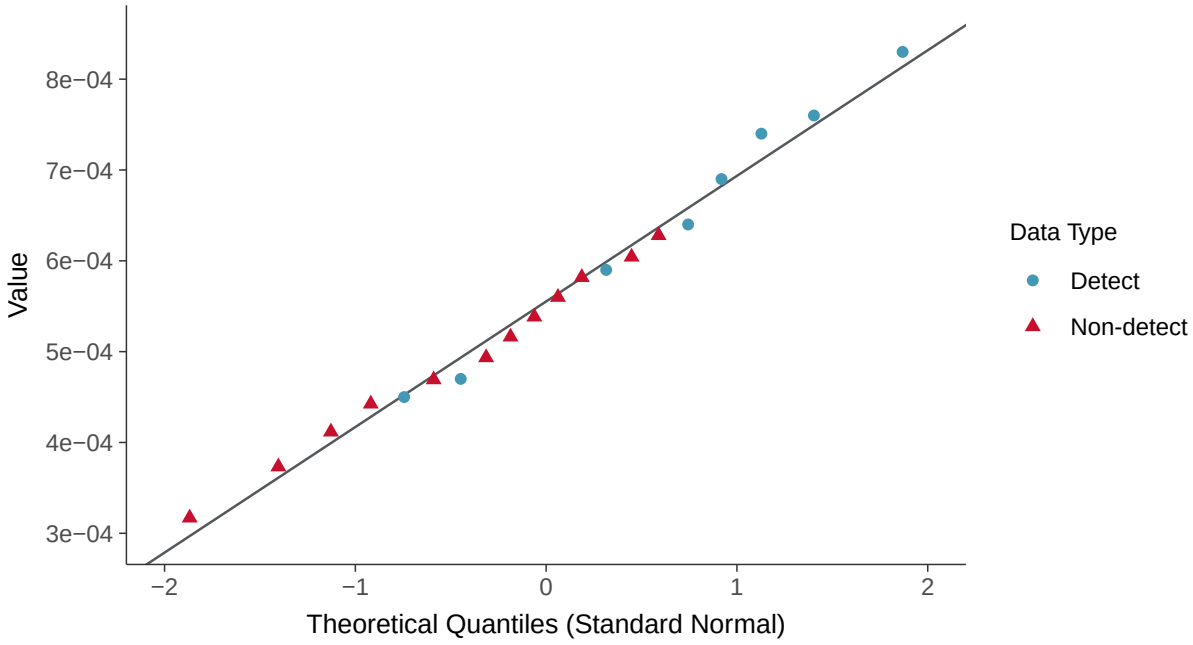
Boxplot by Season

Vanadium, MW-31 (mg/L)



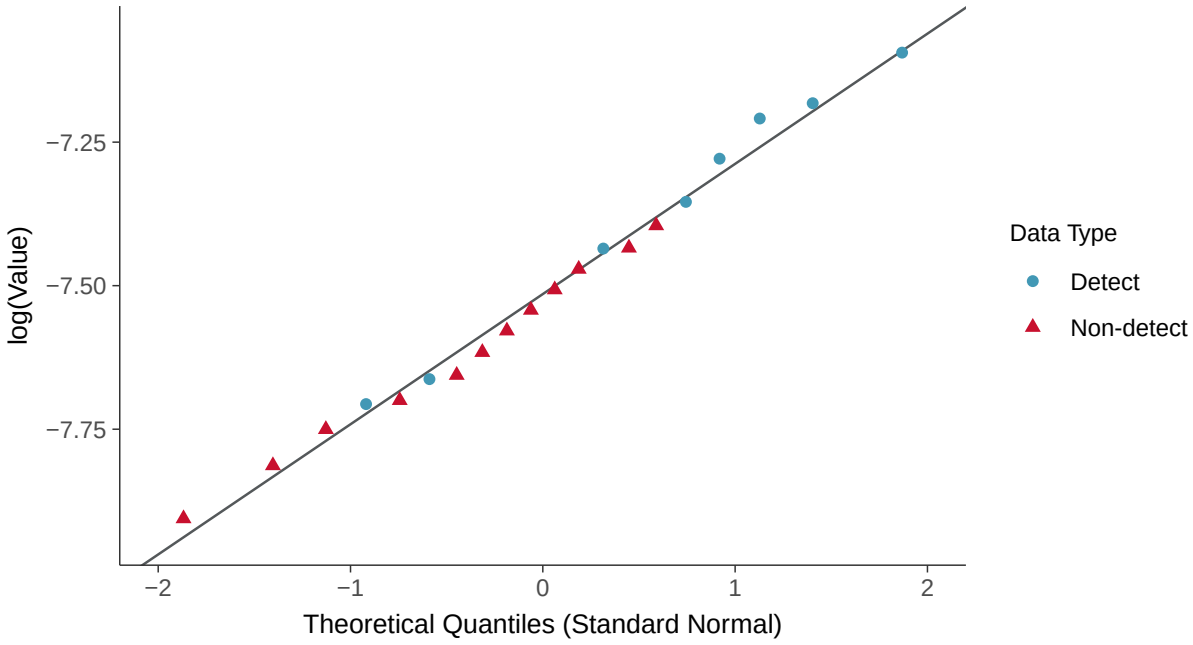
Normal Q-Q plot using ROS Imputed Estimates

Vanadium, MW-31 (mg/L)



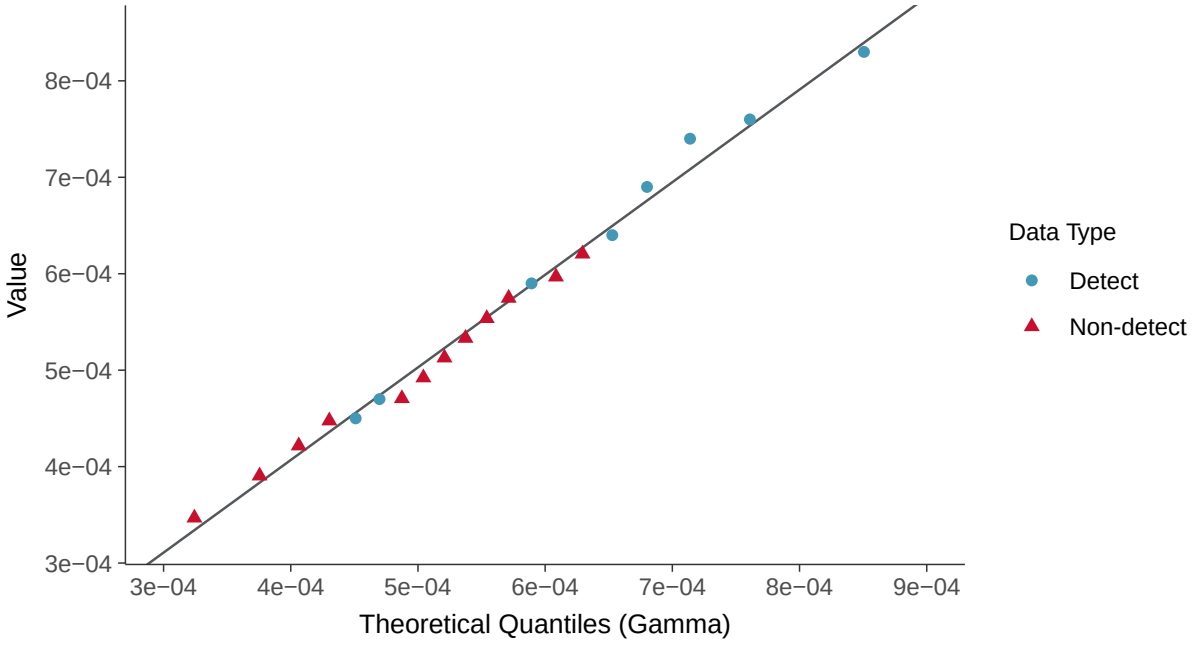
Lognormal Q-Q plot using ROS Imputed Estimates

Vanadium, MW-31 (mg/L)



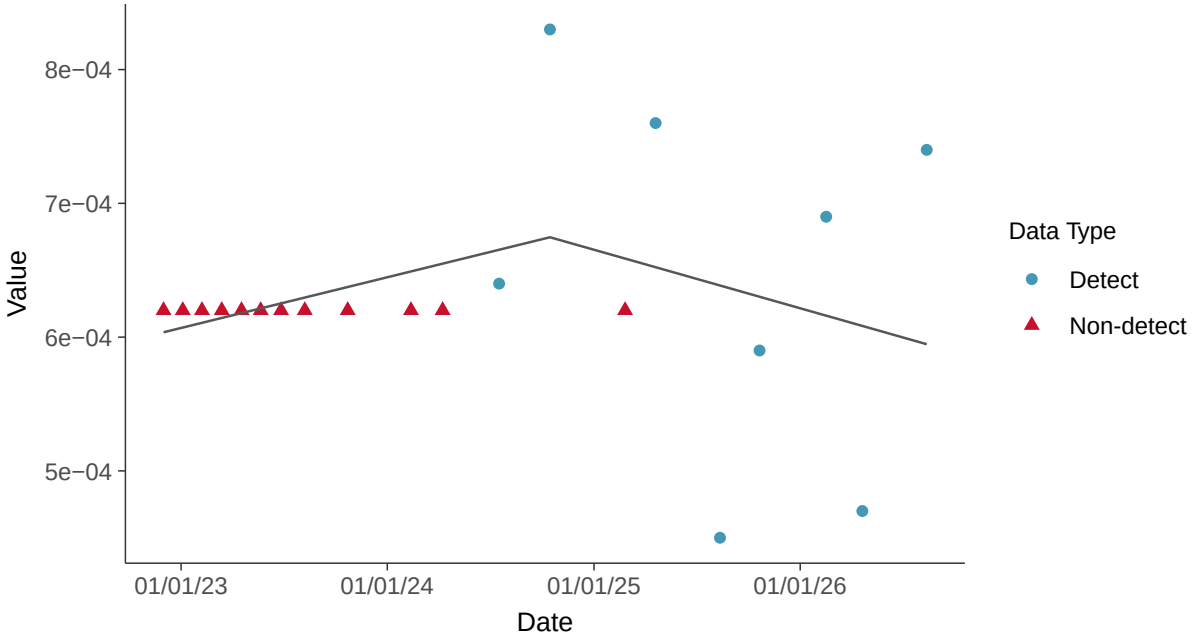
Gamma Q-Q plot using ROS Imputed Estimates

Vanadium, MW-31 (mg/L)



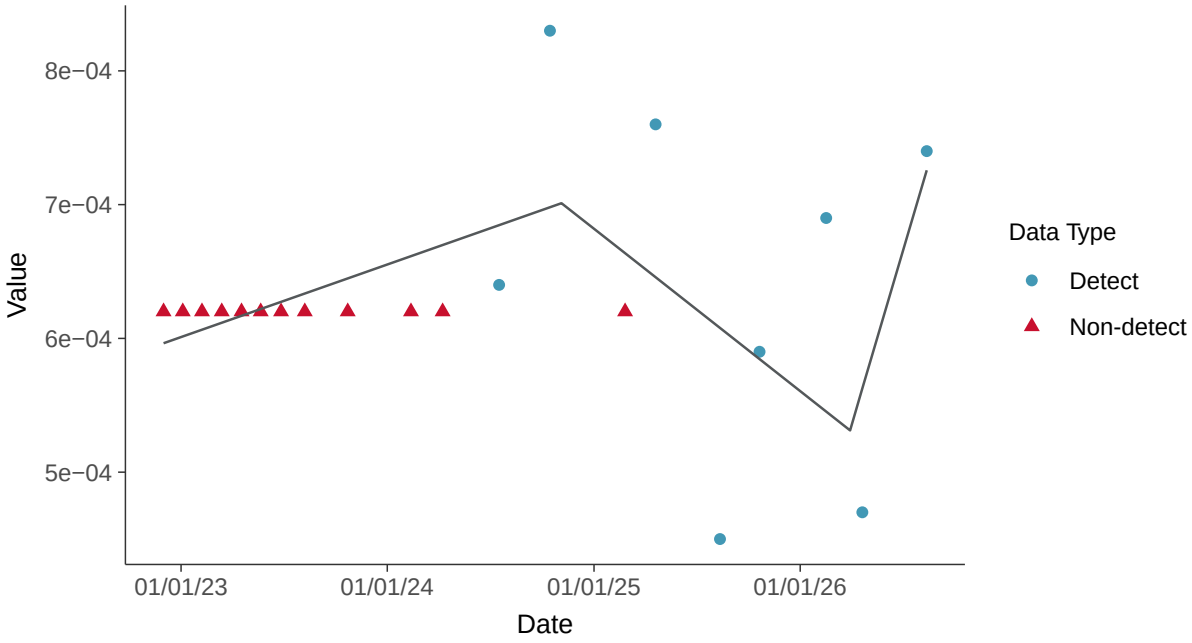
Trend Regression: Piecewise Linear-Linear

Vanadium, MW-31 (mg/L)



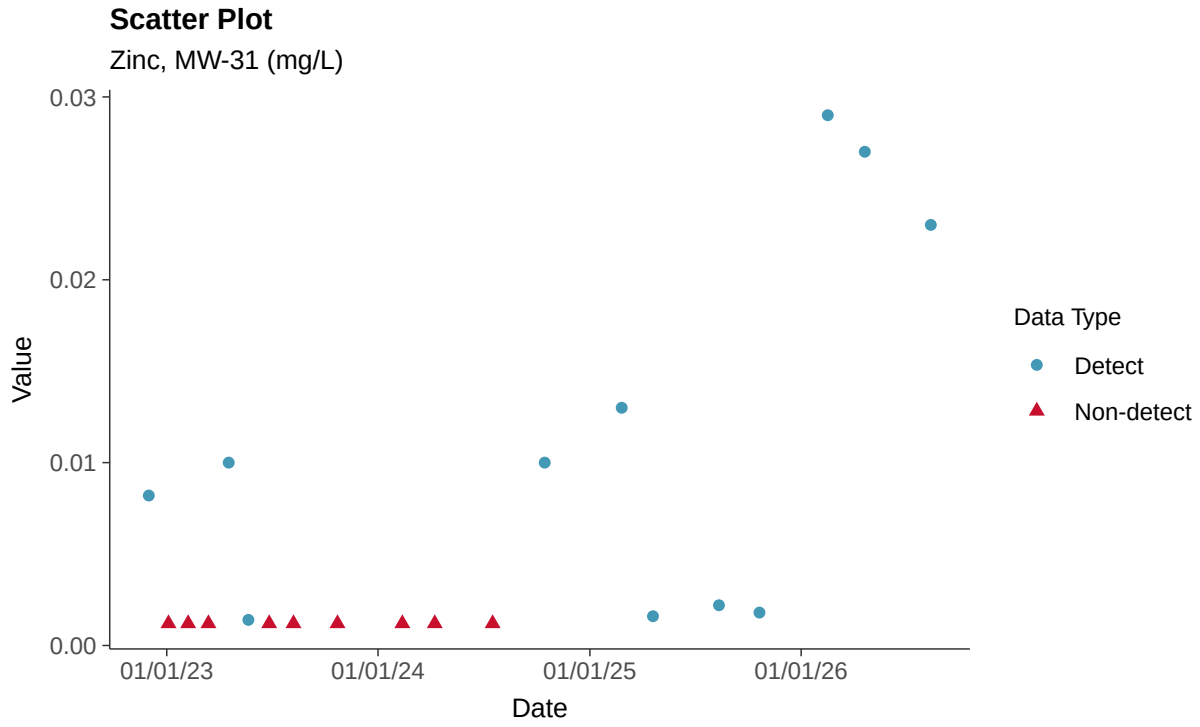
Trend Regression: Piecewise Linear-Linear-Linear

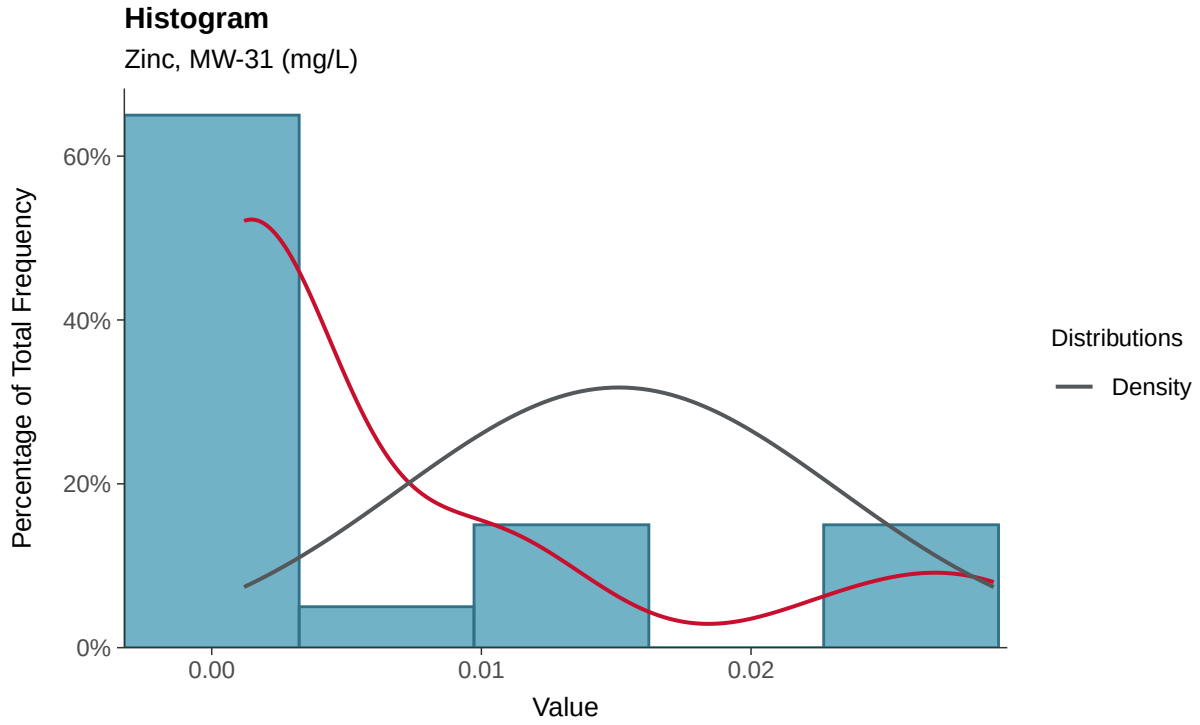
Vanadium, MW-31 (mg/L)



Part 115: Zinc, MW-31

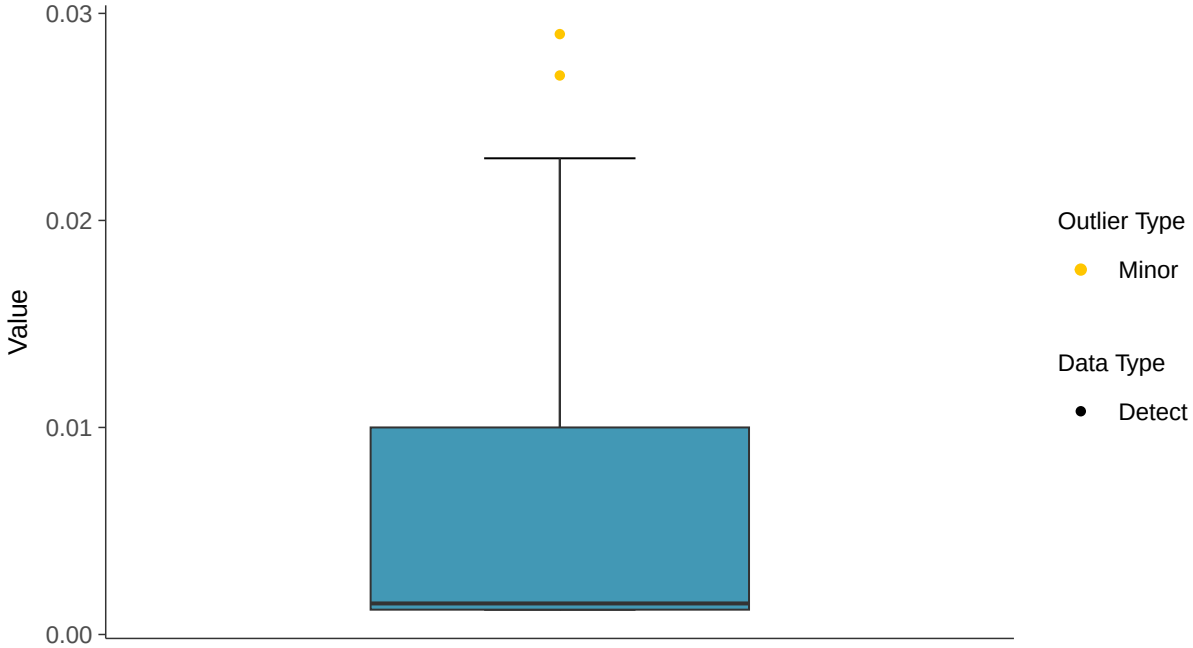
ID: 41_1_5_129





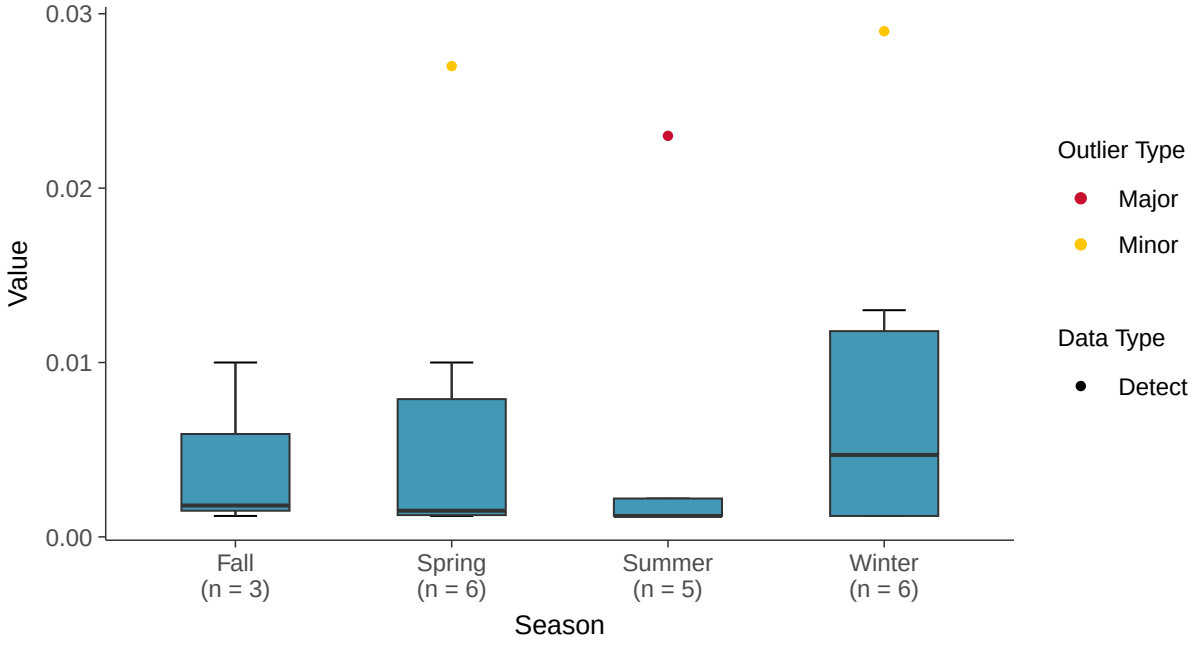
Boxplot

Zinc, MW-31 (mg/L)



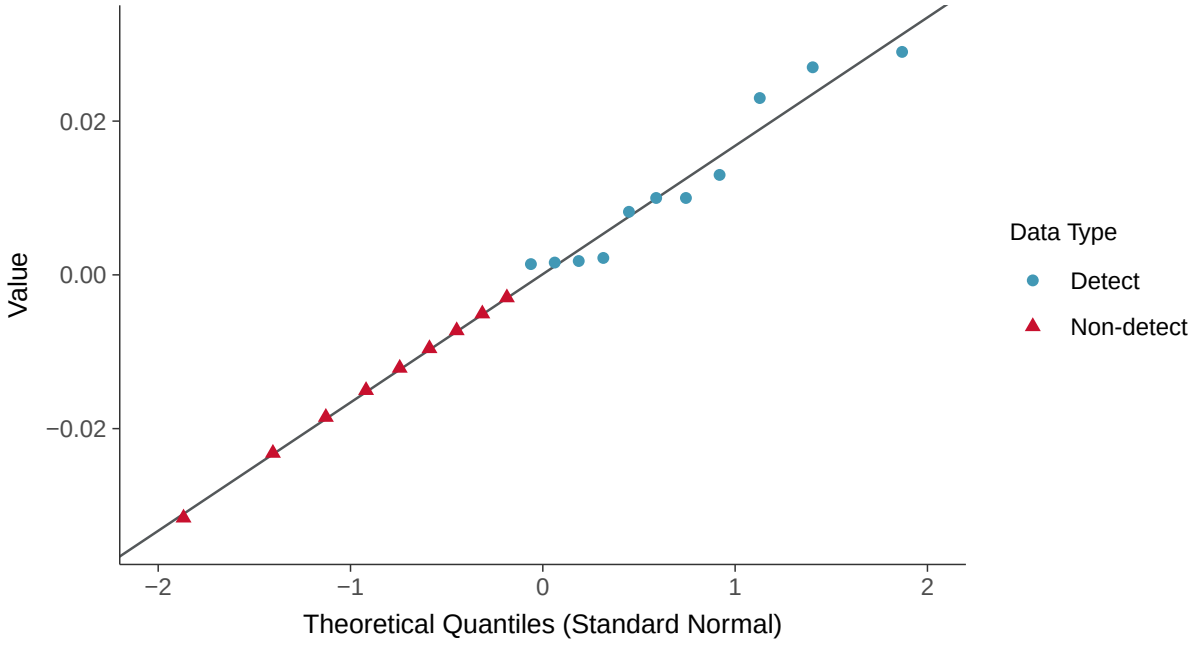
Boxplot by Season

Zinc, MW-31 (mg/L)



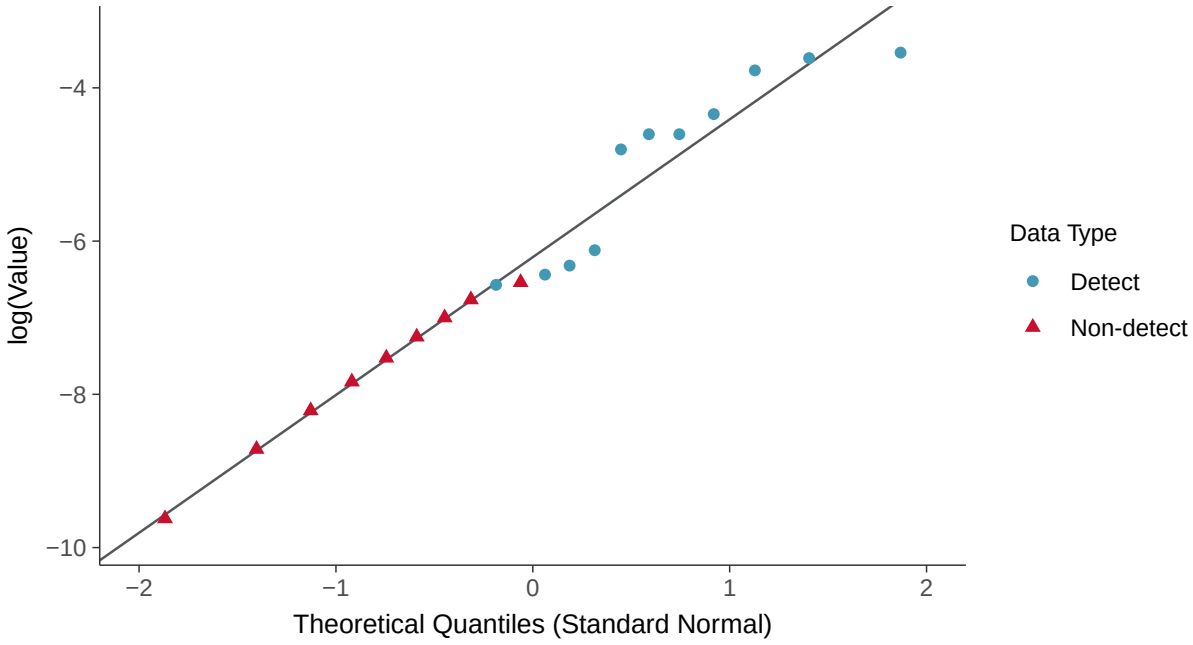
Normal Q-Q plot using ROS Imputed Estimates

Zinc, MW-31 (mg/L)



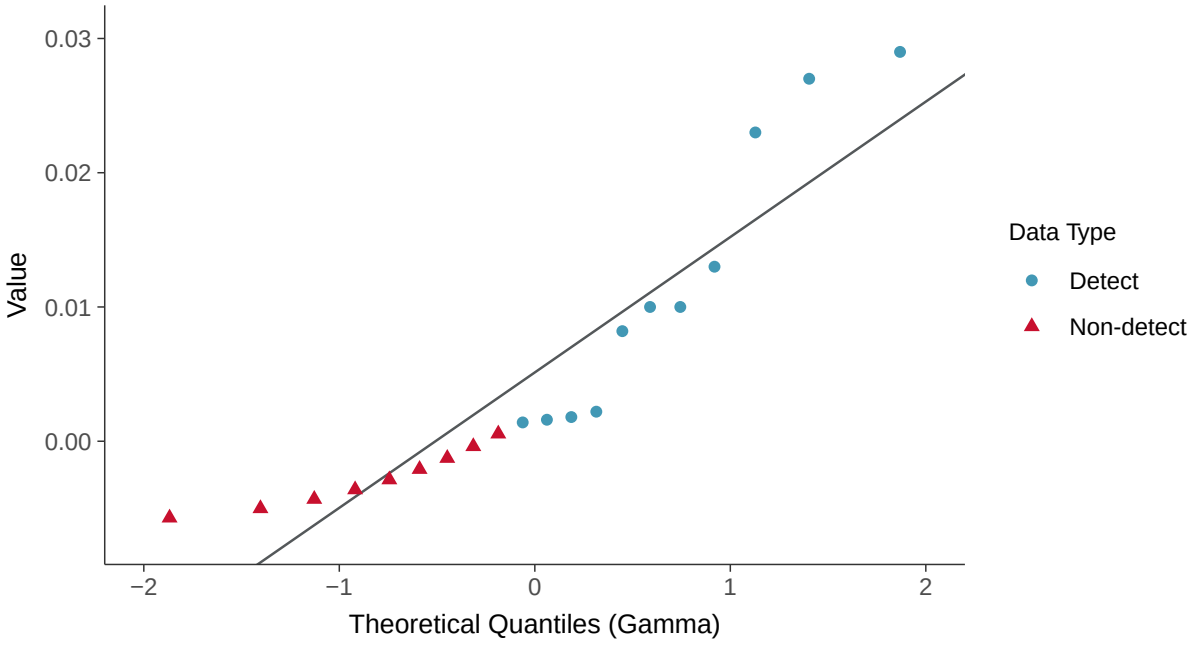
Lognormal Q-Q plot using ROS Imputed Estimates

Zinc, MW-31 (mg/L)



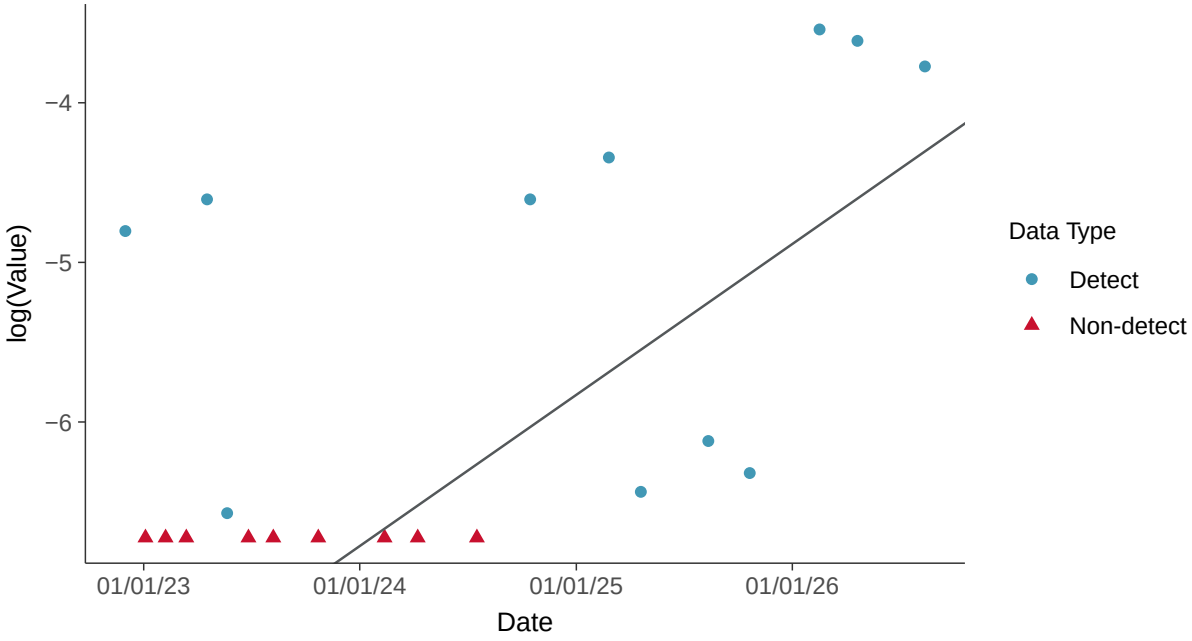
Gamma Q-Q plot using ROS Imputed Estimates

Zinc, MW-31 (mg/L)



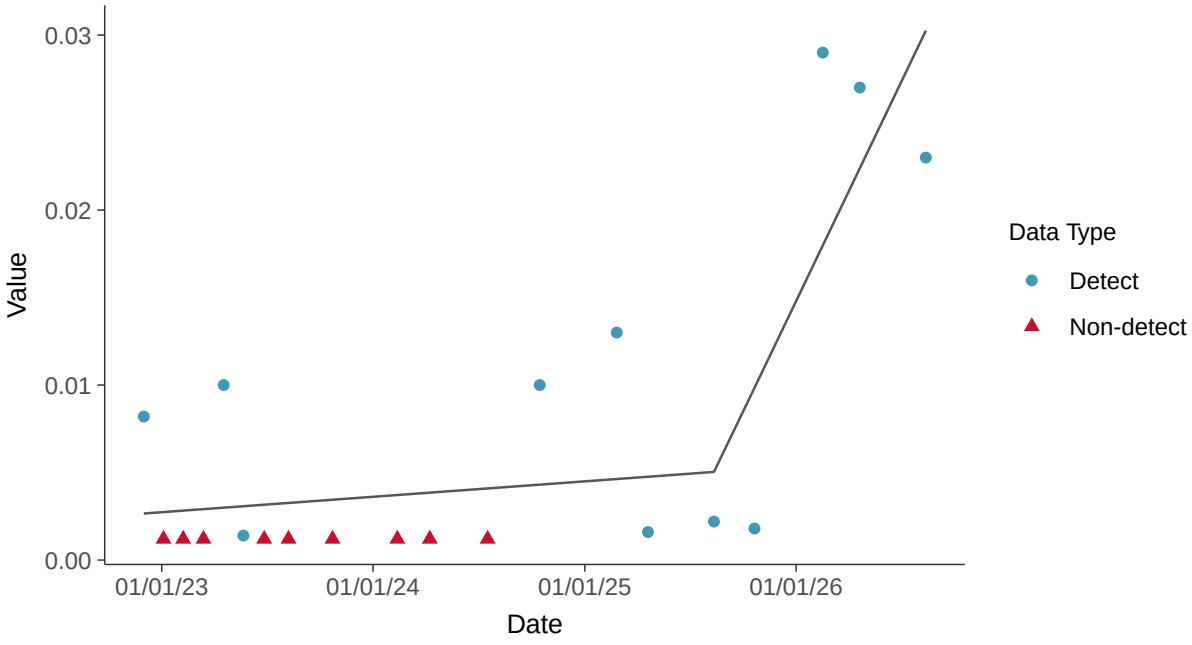
Trend Regression: Lognormal MLE

Zinc, MW-31 (mg/L)



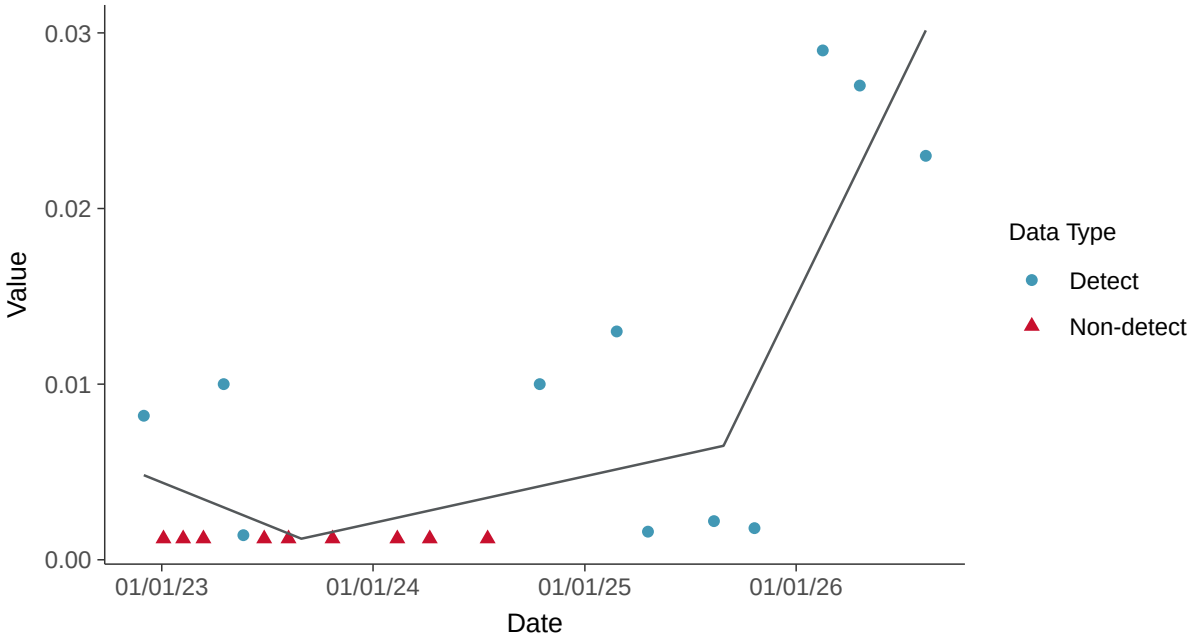
Trend Regression: Piecewise Linear-Linear

Zinc, MW-31 (mg/L)



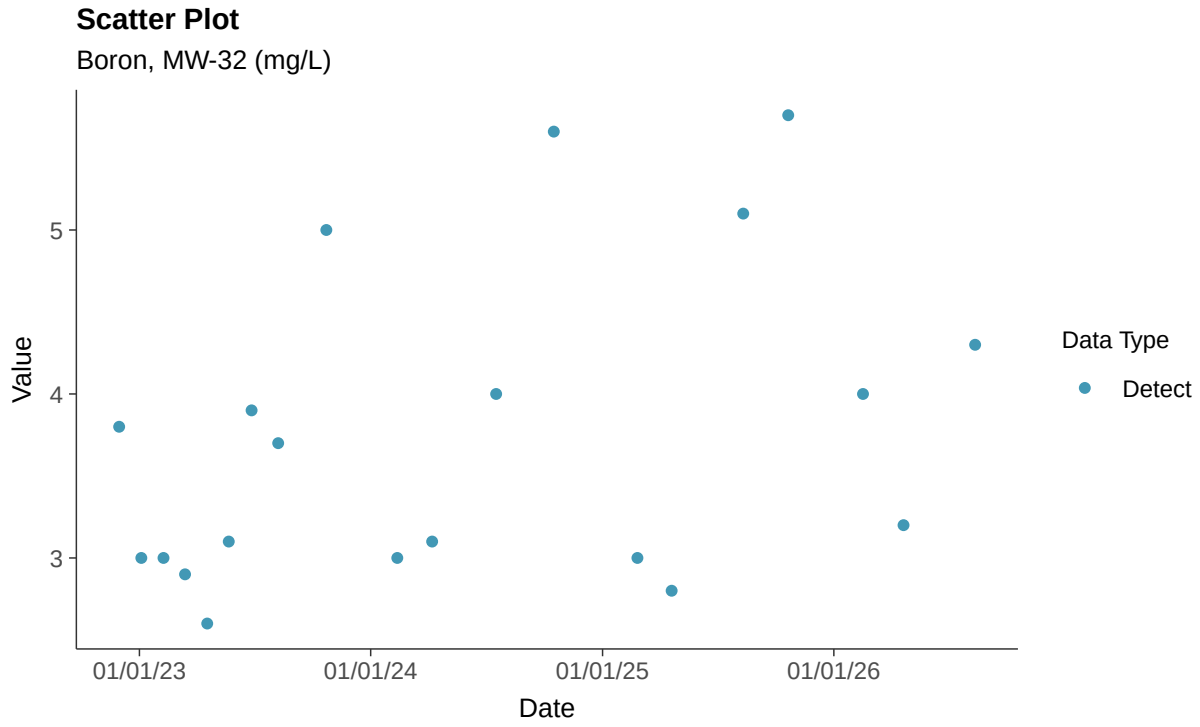
Trend Regression: Piecewise Linear-Linear-Linear

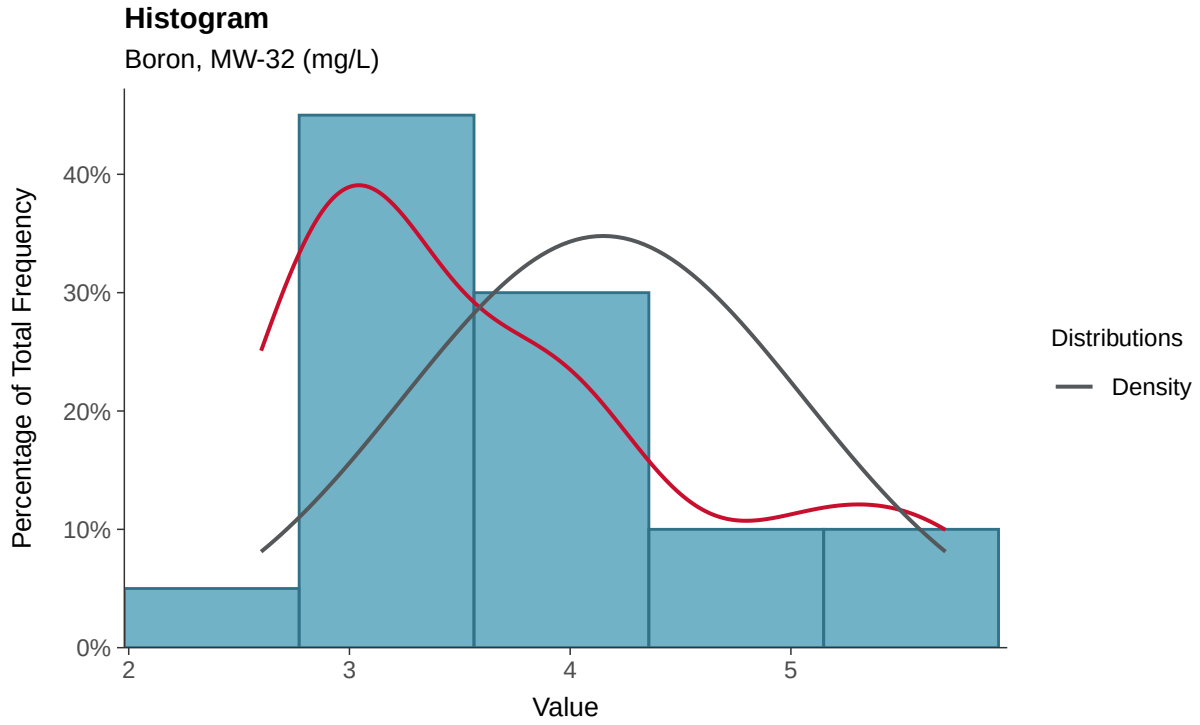
Zinc, MW-31 (mg/L)



Appendix III: Boron, MW-32

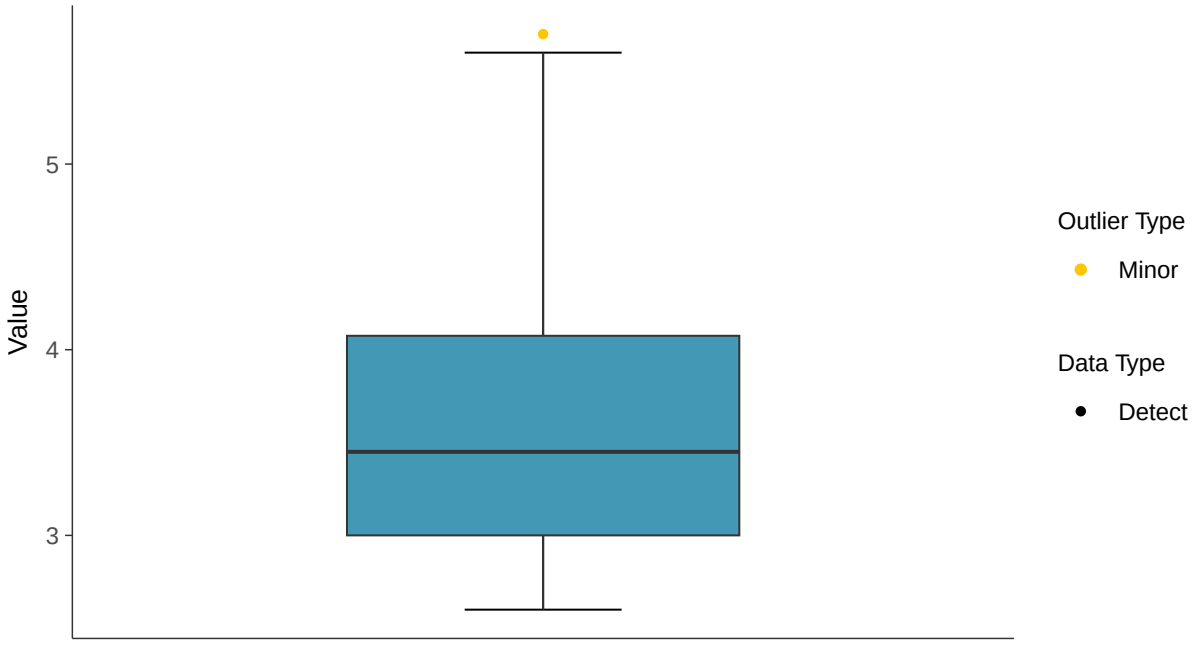
ID: 42_1_3_105





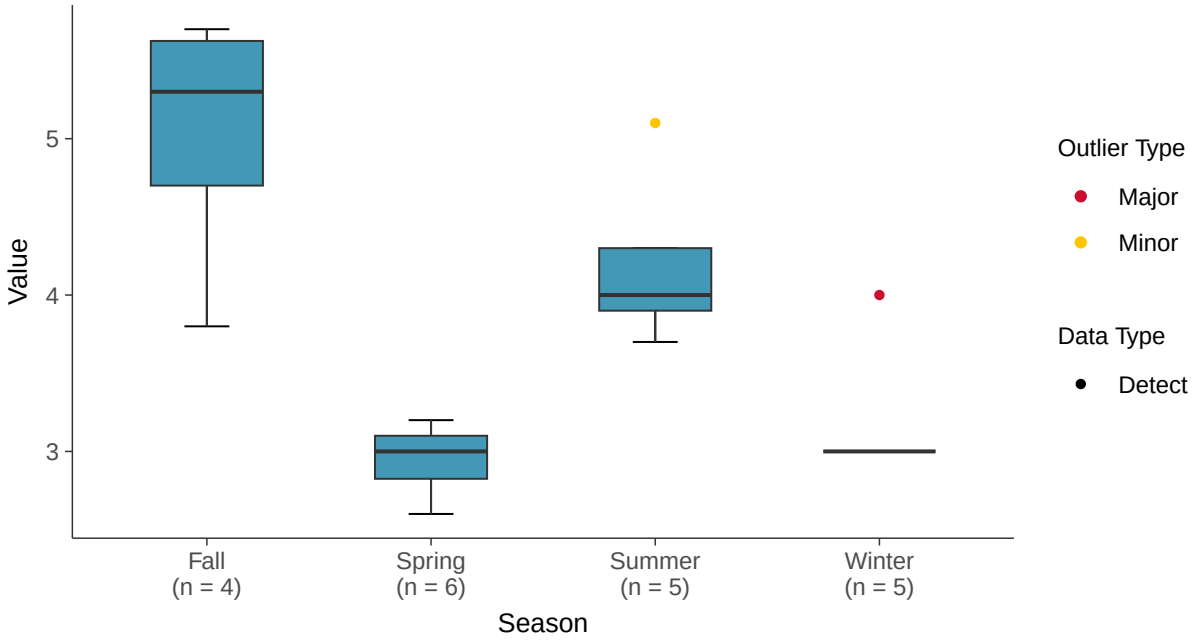
Boxplot

Boron, MW-32 (mg/L)



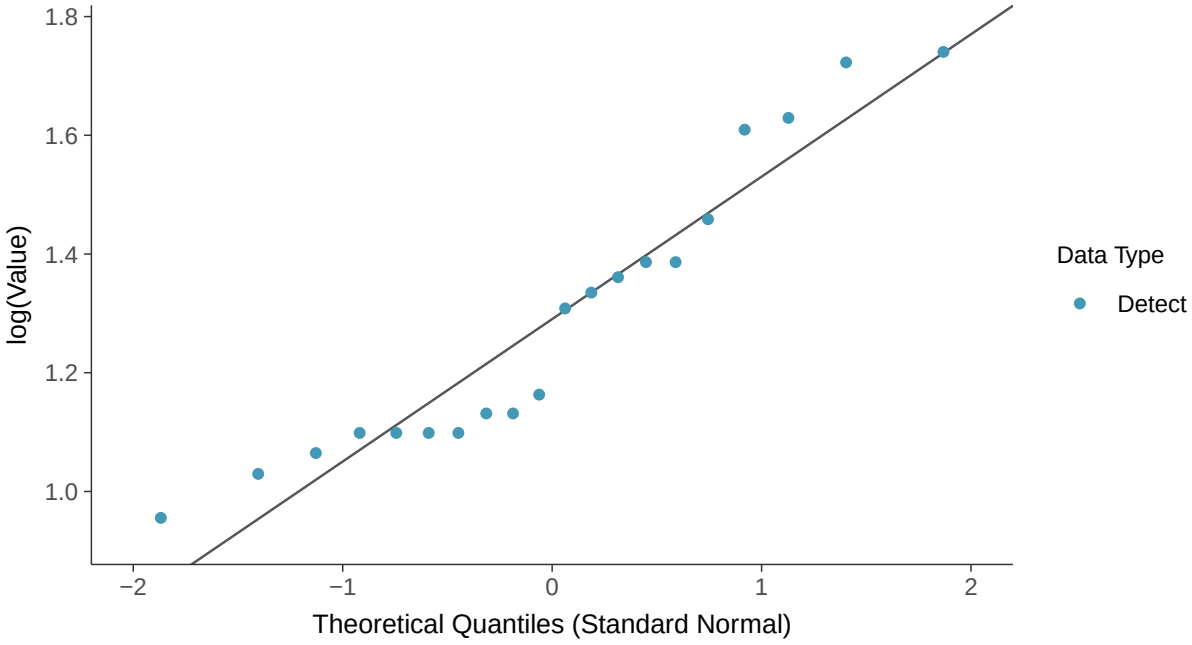
Boxplot by Season

Boron, MW-32 (mg/L)



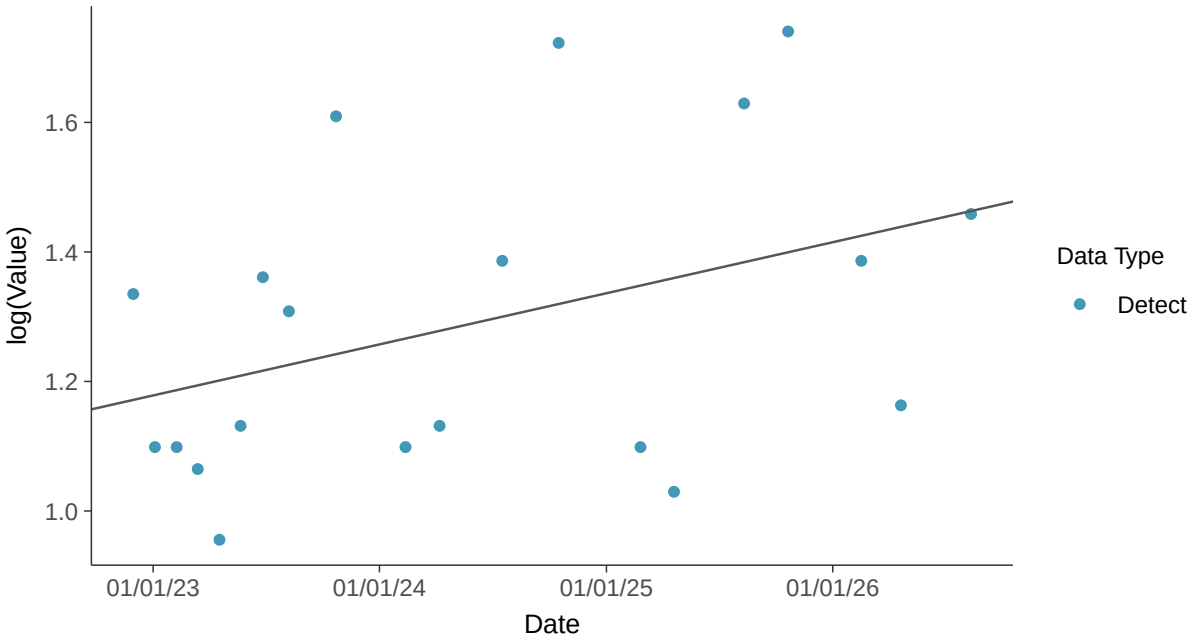
Lognormal Q-Q plot

Boron, MW-32 (mg/L)



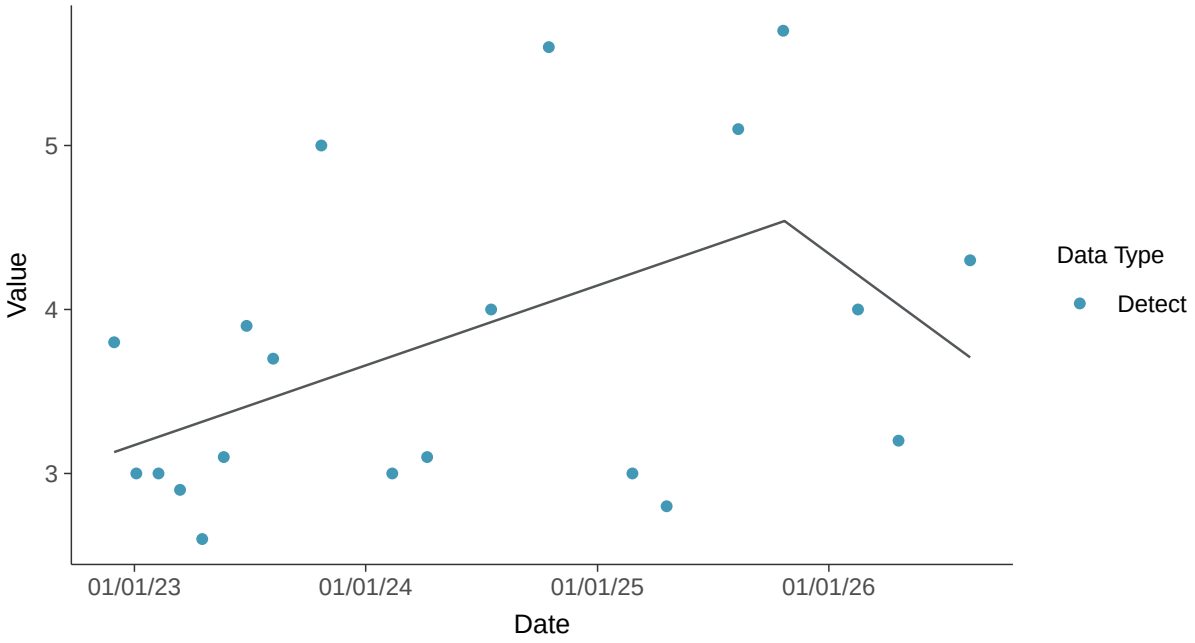
Trend Regression: Lognormal MLE

Boron, MW-32 (mg/L)



Trend Regression: Piecewise Linear-Linear

Boron, MW-32 (mg/L)

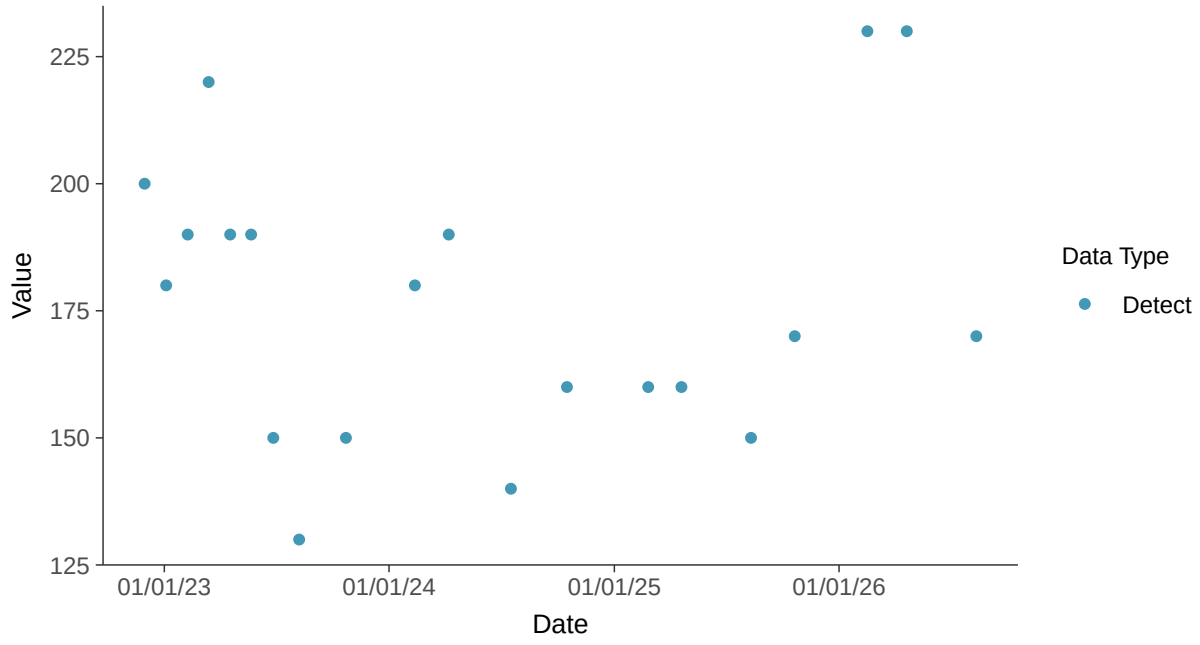


Appendix III: Calcium, MW-32

ID: 42_1_3_107

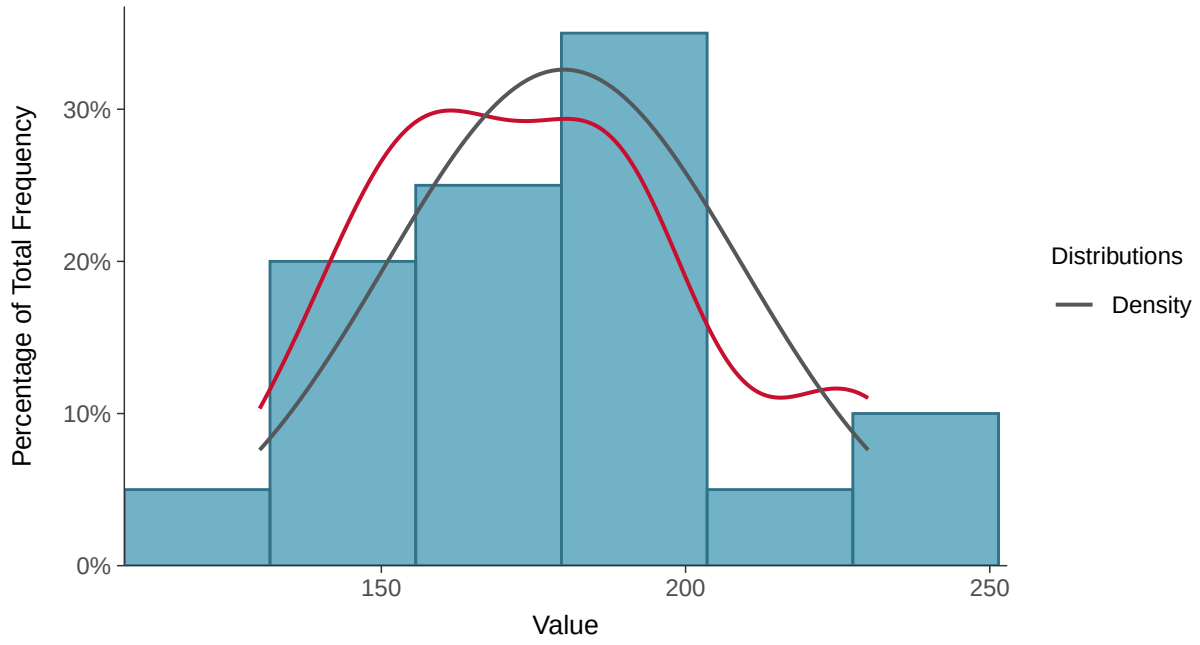
Scatter Plot

Calcium, MW-32 (mg/L)



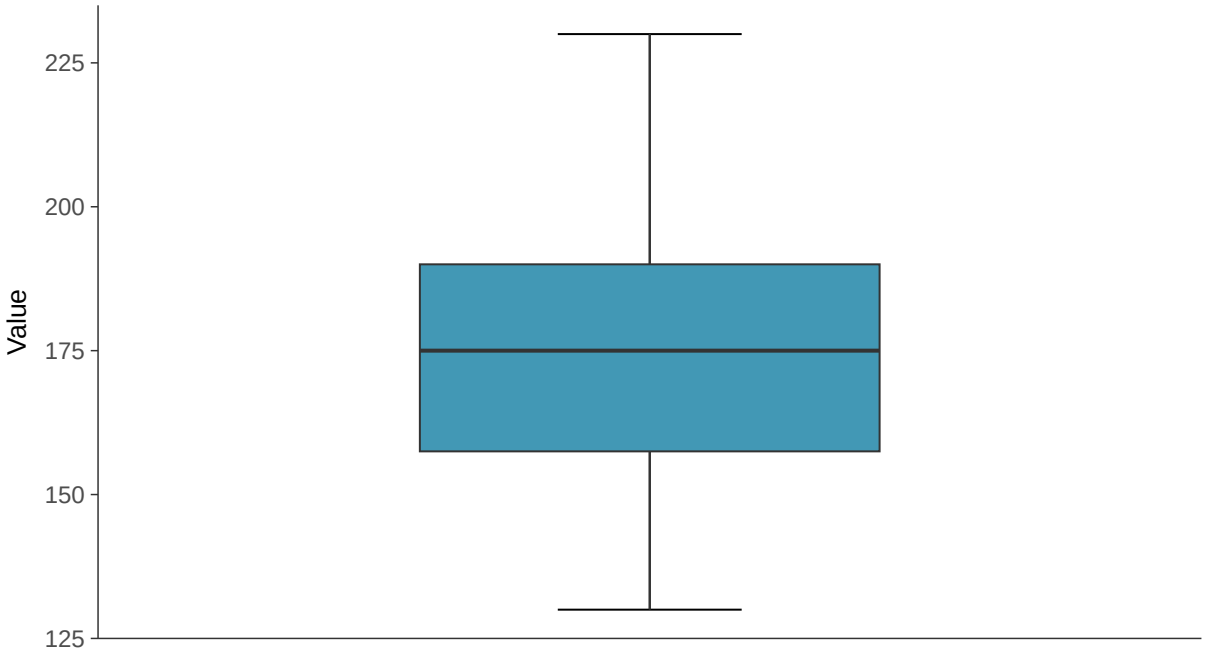
Histogram

Calcium, MW-32 (mg/L)



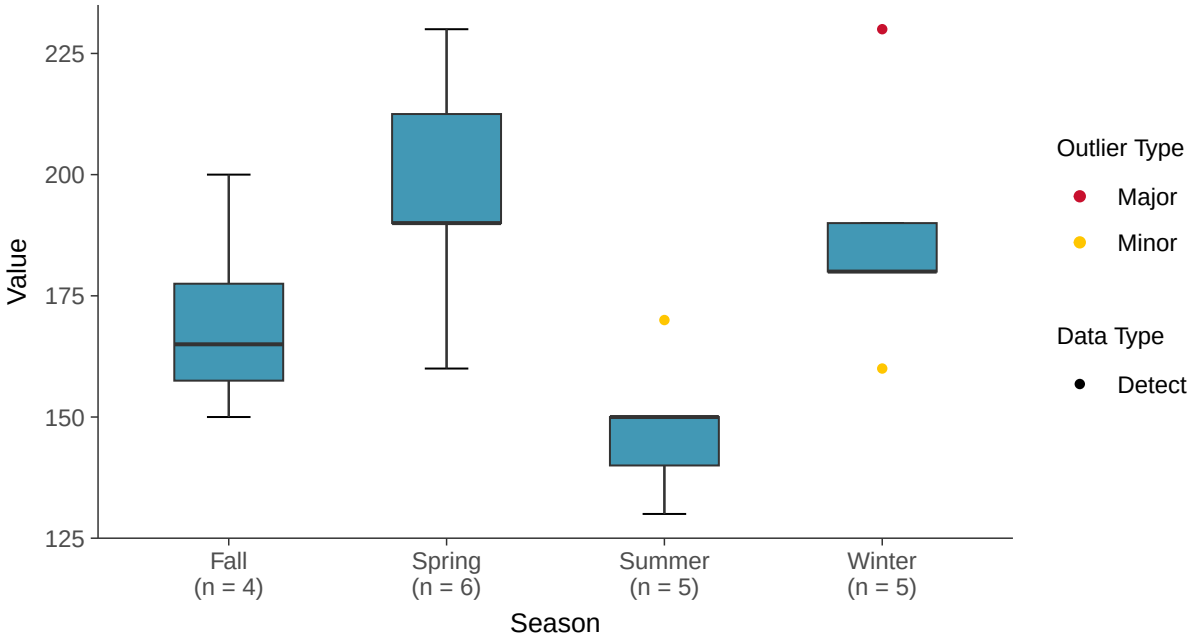
Boxplot

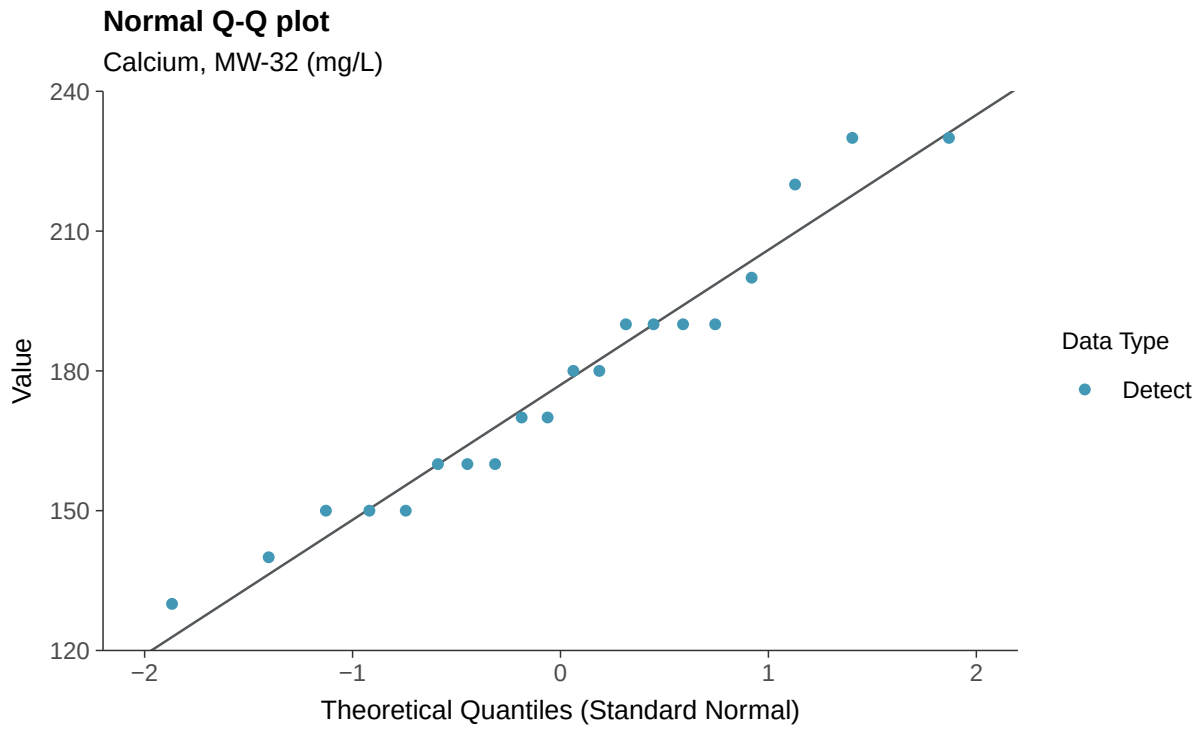
Calcium, MW-32 (mg/L)

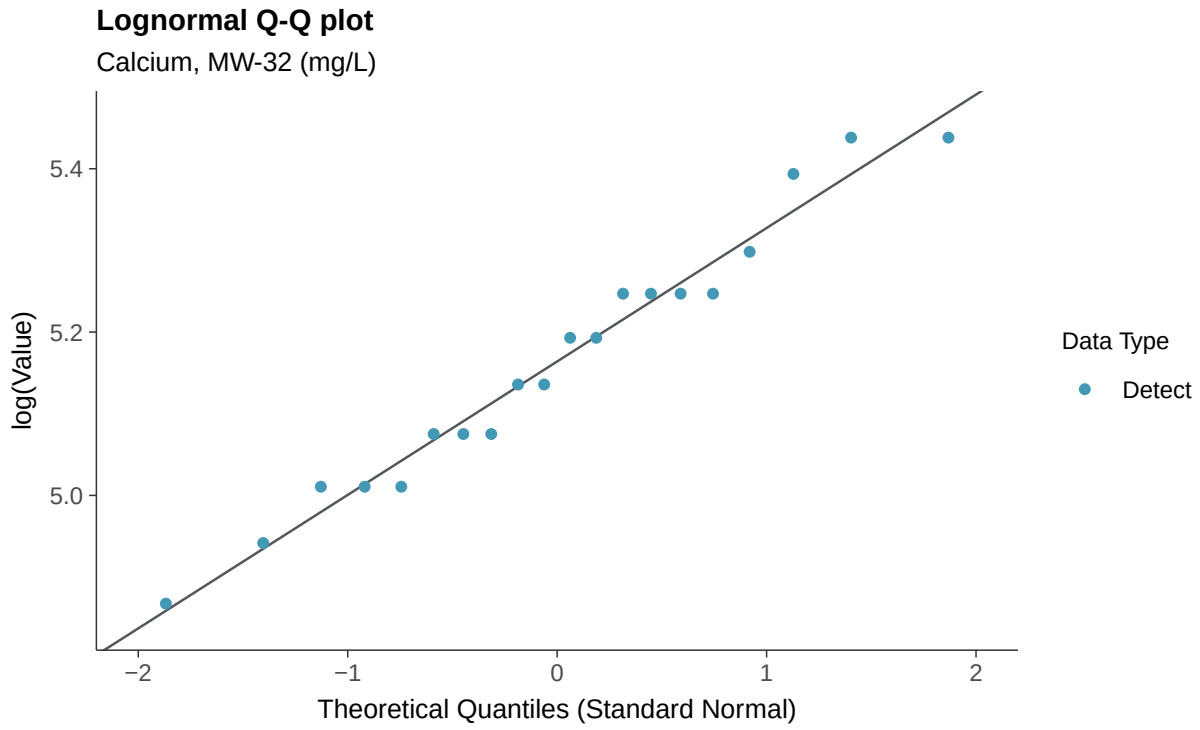


Boxplot by Season

Calcium, MW-32 (mg/L)

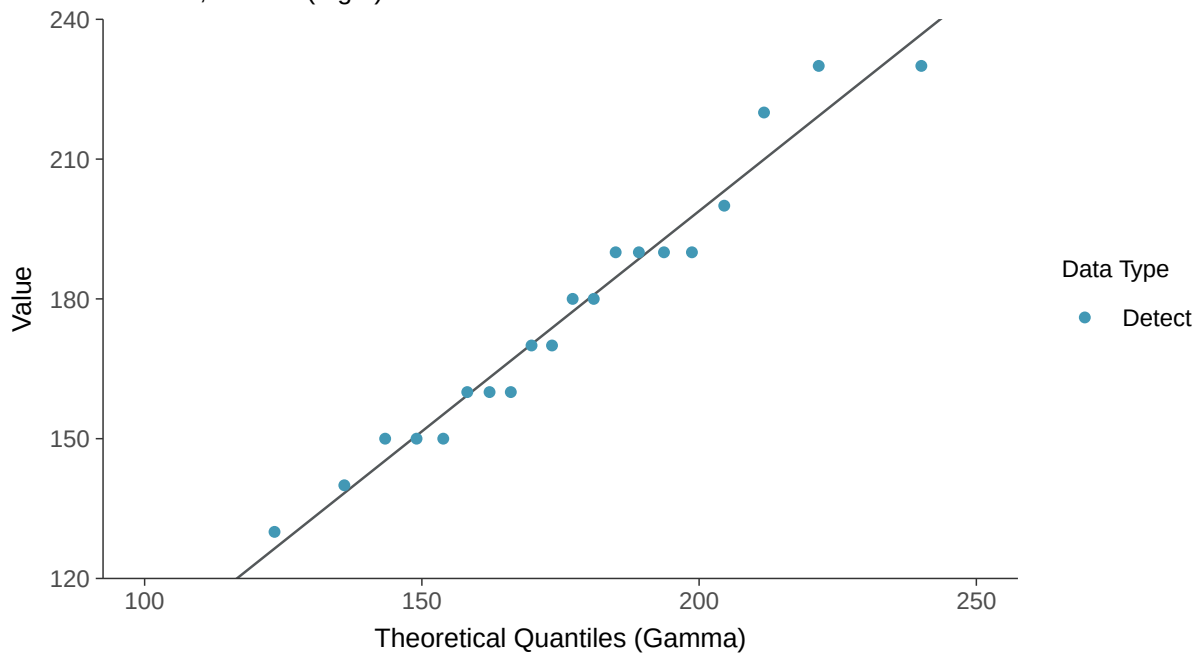



Normal Q-Q plot
Calcium, MW-32 (mg/L)
Value
240
210
180
150
120
−2
−1
0
1
2
Theoretical Quantiles (Standard Normal)
Data Type
Detect


Lognormal Q-Q plot
Calcium, MW-32 (mg/L)
log(Value)
5.4
5.2
5.0
−2
−1
0
1
2
Theoretical Quantiles (Standard Normal)
Data Type
Detect

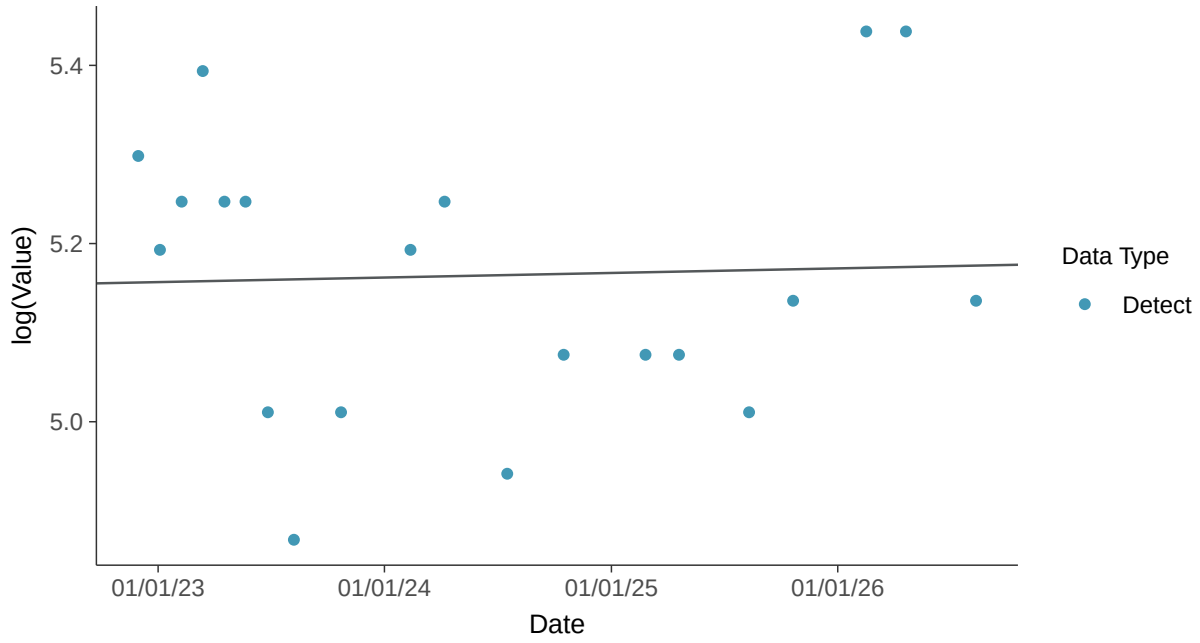
Gamma Q-Q plot

Calcium, MW-32 (mg/L)



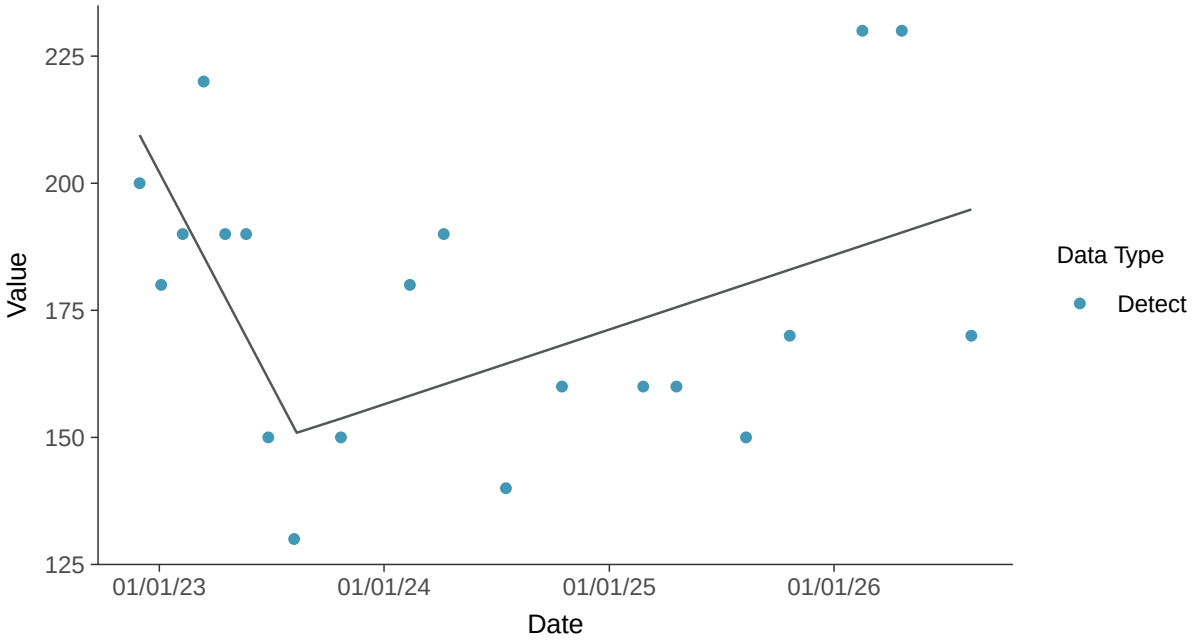
Trend Regression: Lognormal MLE

Calcium, MW-32 (mg/L)



Trend Regression: Piecewise Linear-Linear

Calcium, MW-32 (mg/L)

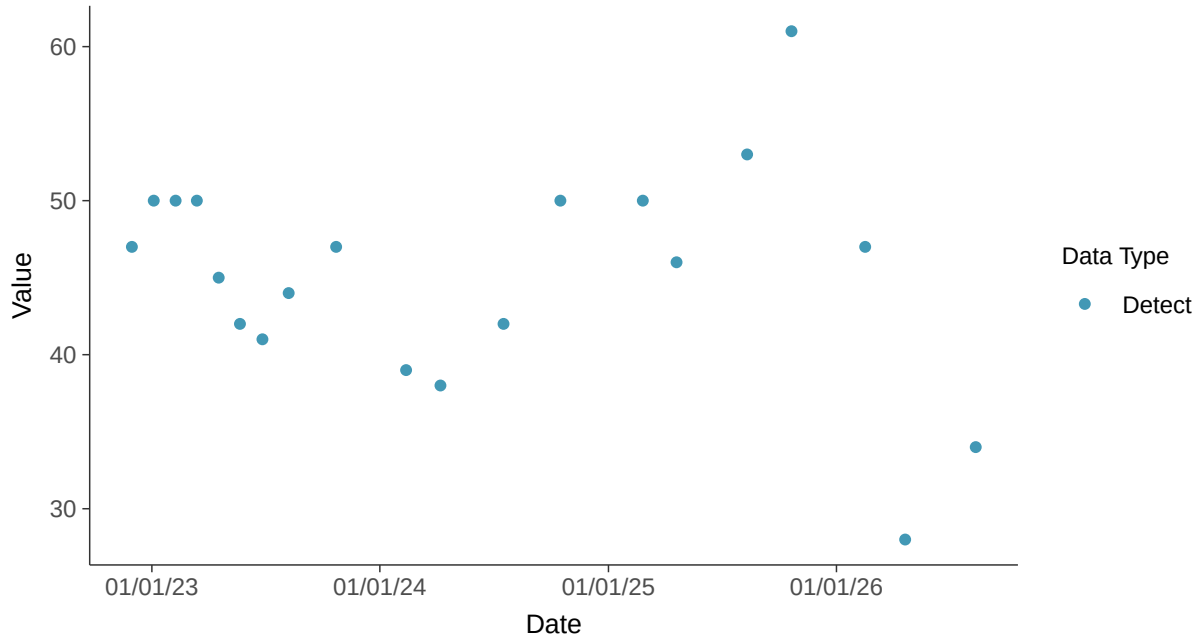


Appendix III: Chloride (as Cl), MW-32

ID: 42_1_3_108

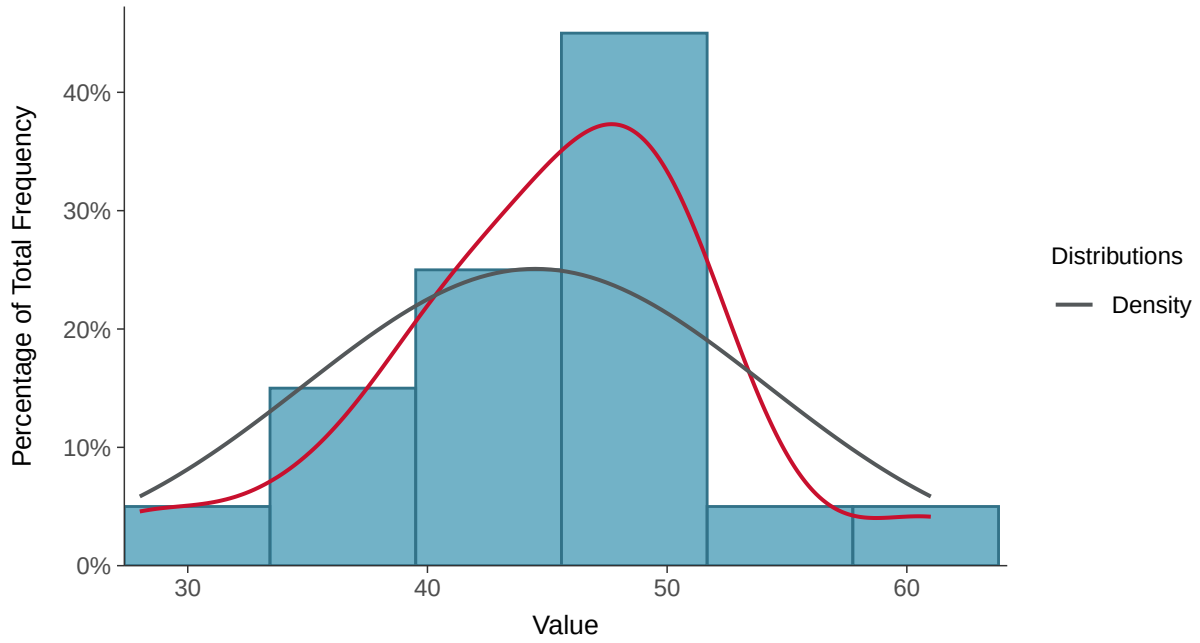
Scatter Plot

Chloride (as Cl), MW-32 (mg/L)



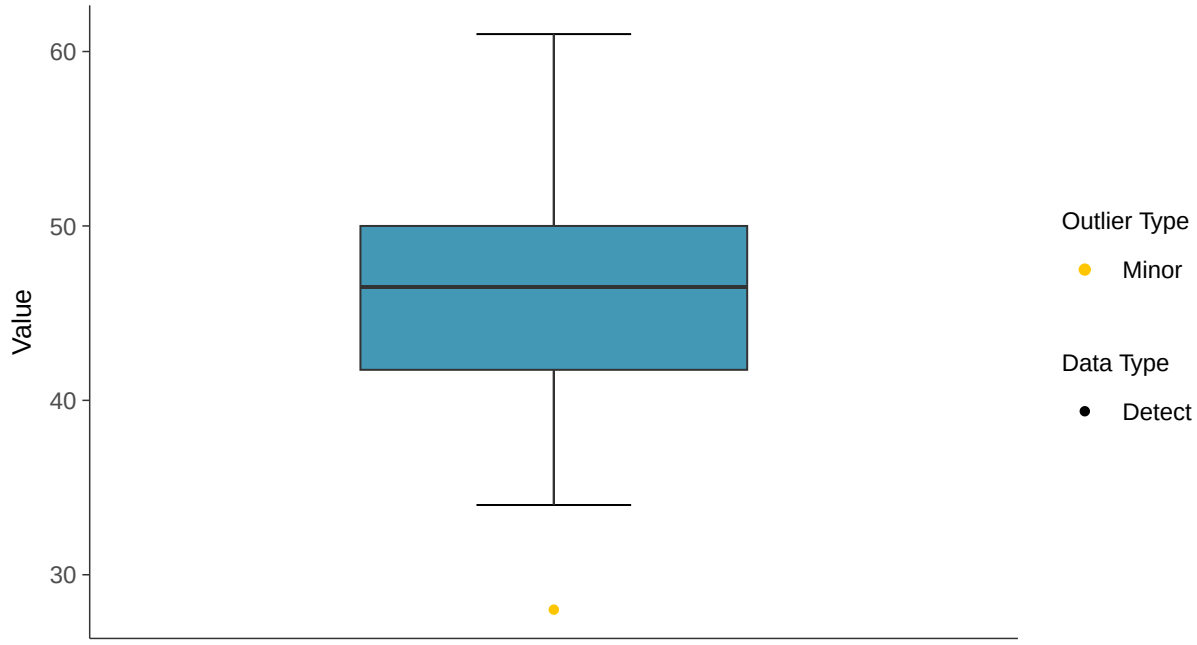
Histogram

Chloride (as Cl), MW-32 (mg/L)



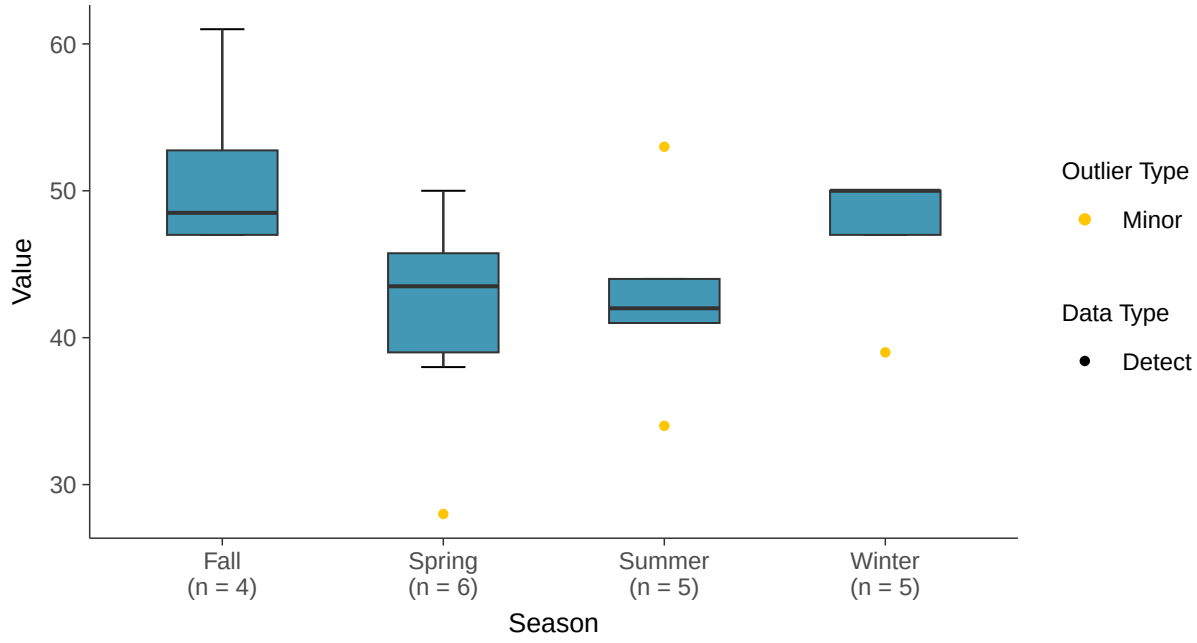
Boxplot

Chloride (as Cl), MW-32 (mg/L)



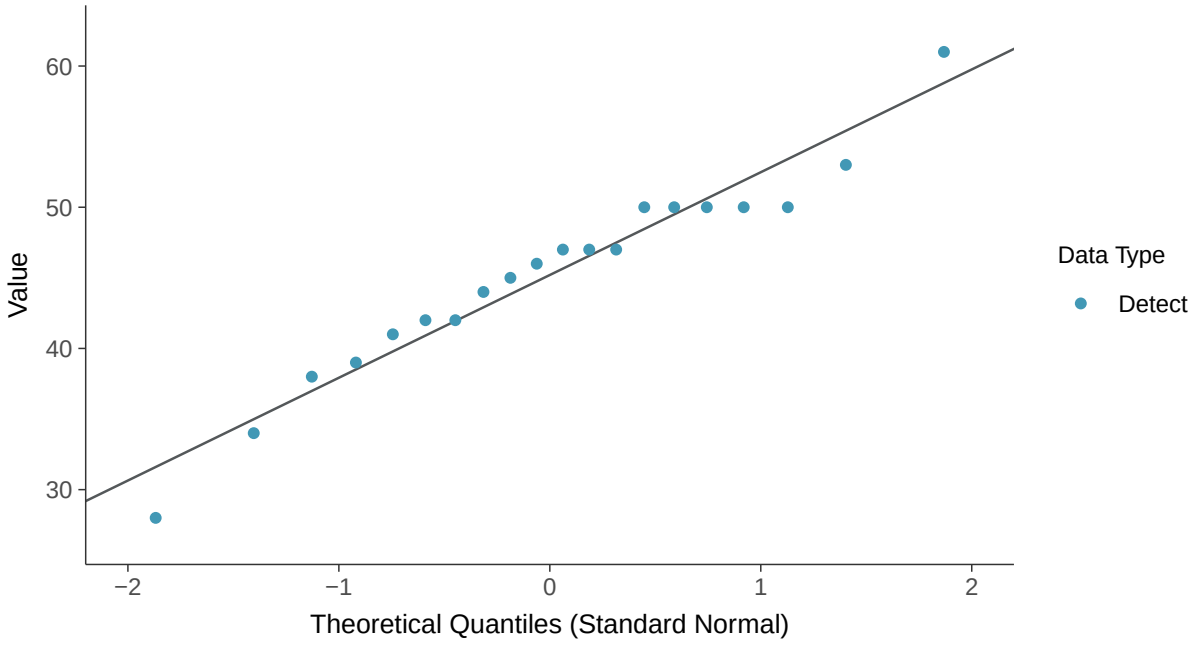
Boxplot by Season

Chloride (as Cl), MW-32 (mg/L)



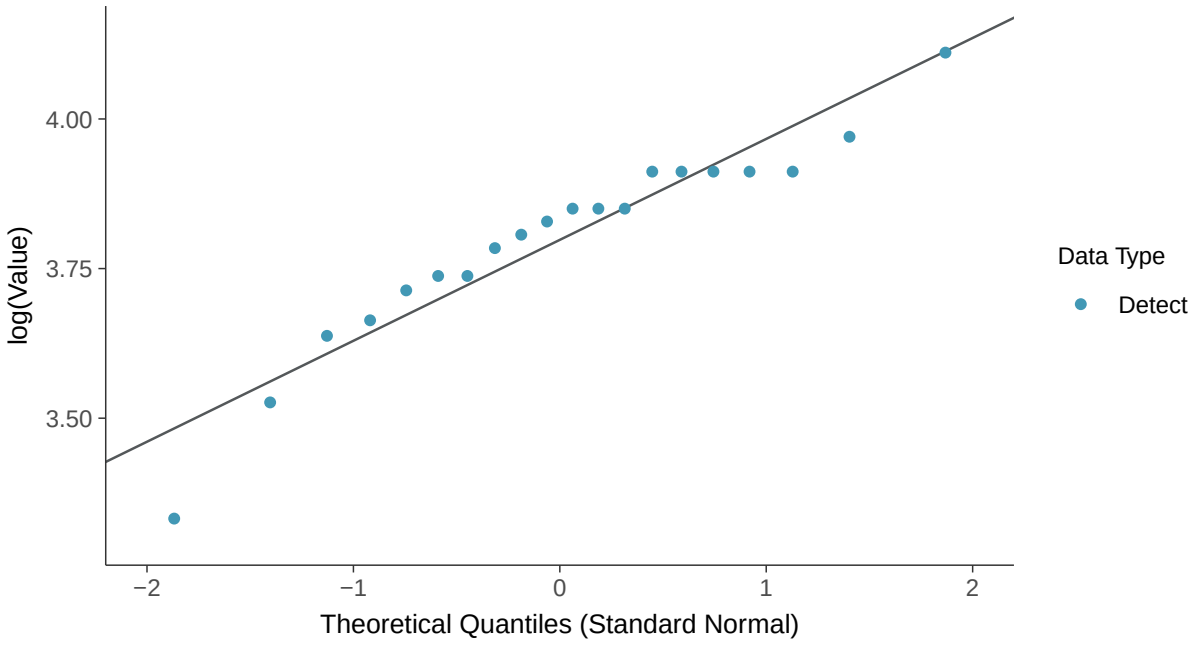
Normal Q-Q plot

Chloride (as Cl), MW-32 (mg/L)



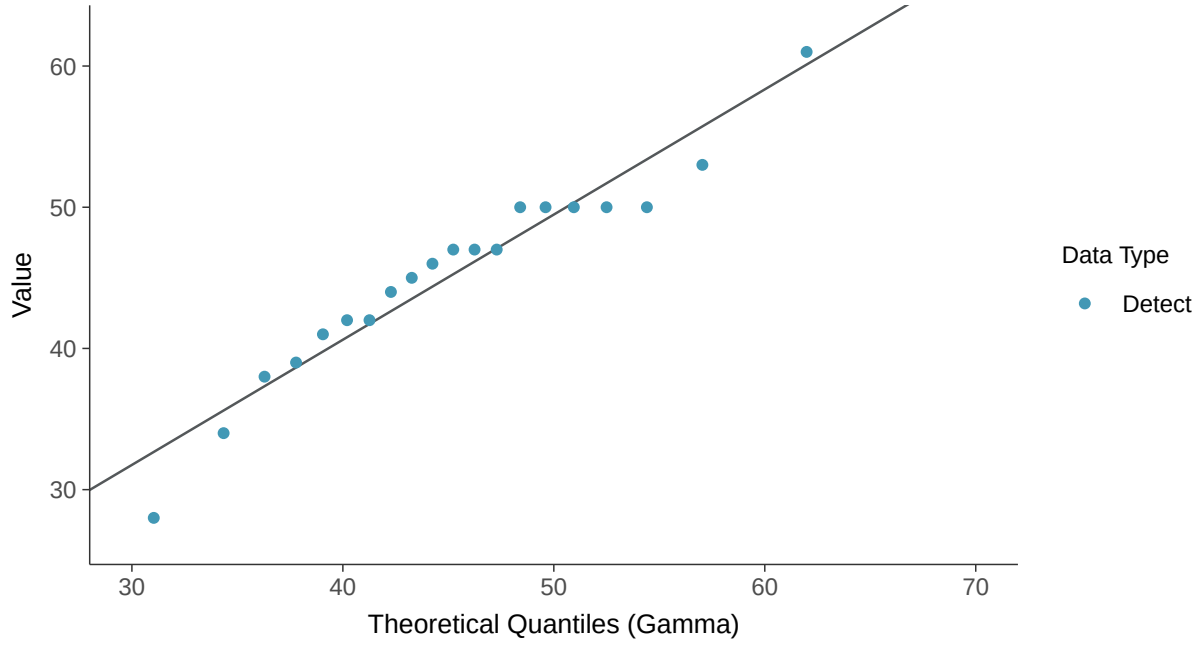
Lognormal Q-Q plot

Chloride (as Cl), MW-32 (mg/L)



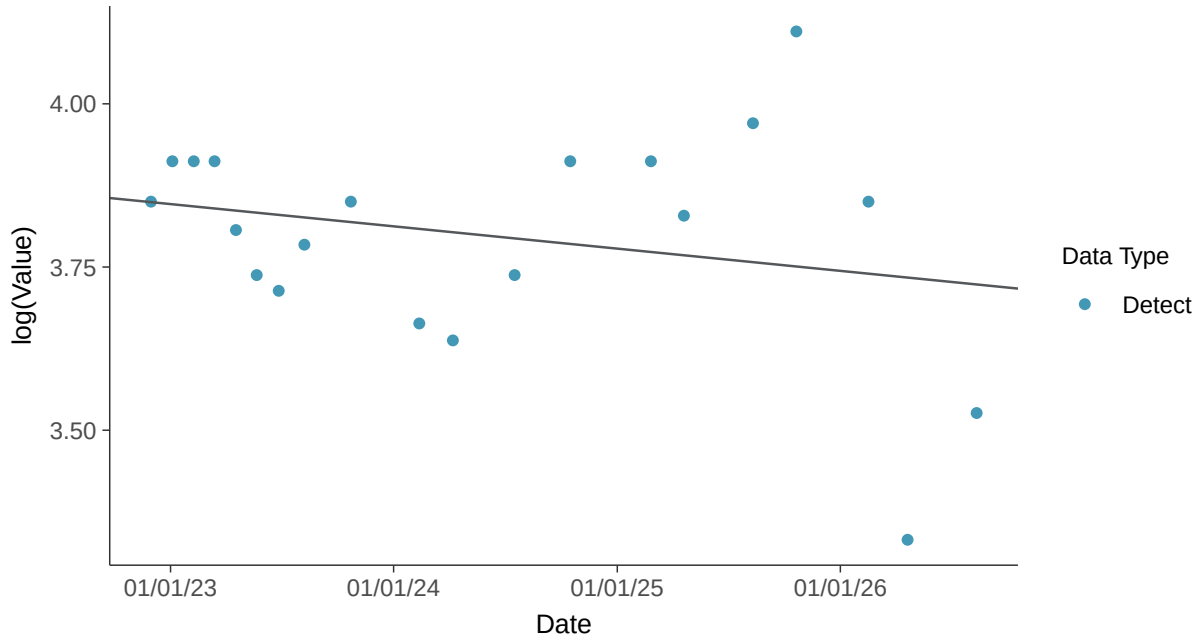
Gamma Q-Q plot

Chloride (as Cl), MW-32 (mg/L)



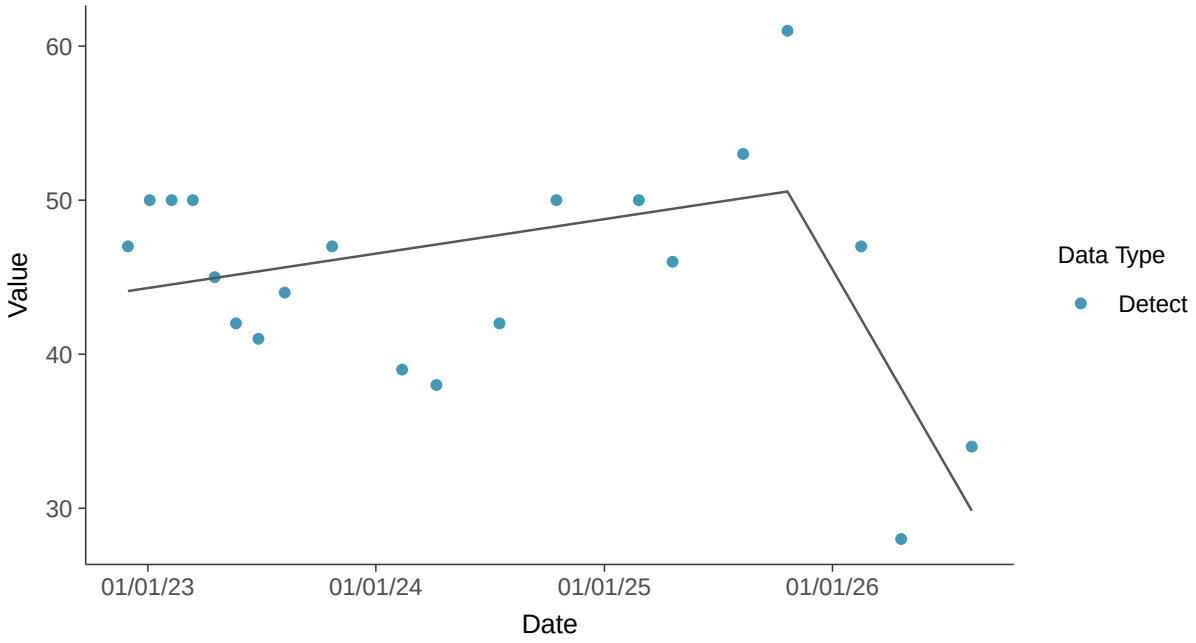
Trend Regression: Lognormal MLE

Chloride (as Cl), MW-32 (mg/L)



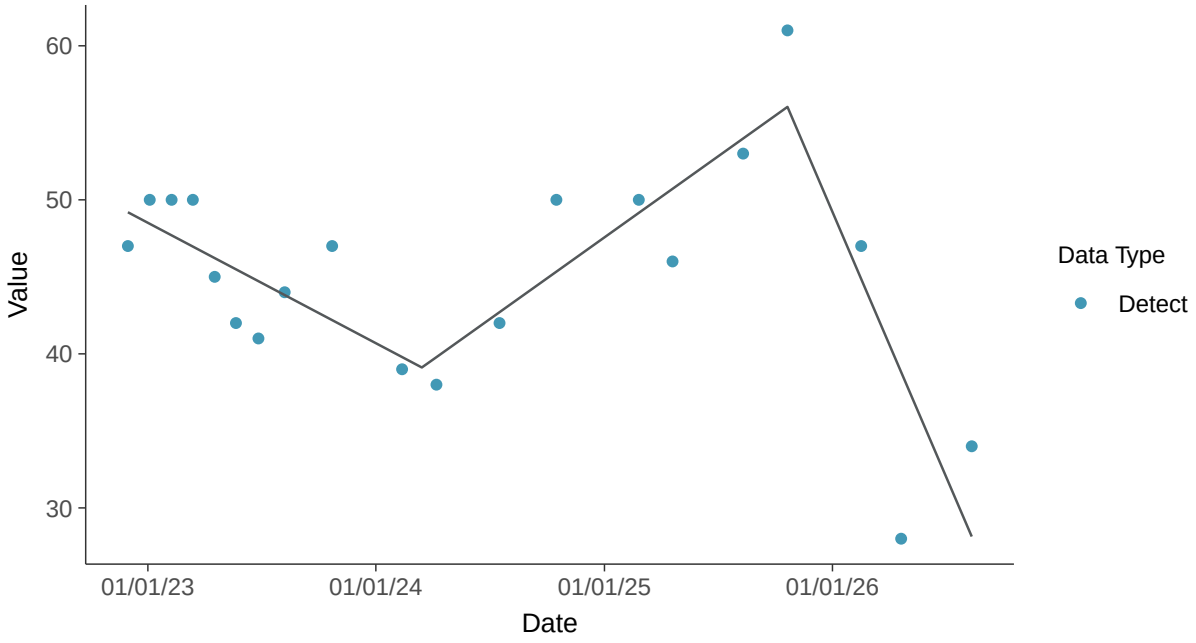
Trend Regression: Piecewise Linear-Linear

Chloride (as Cl), MW-32 (mg/L)



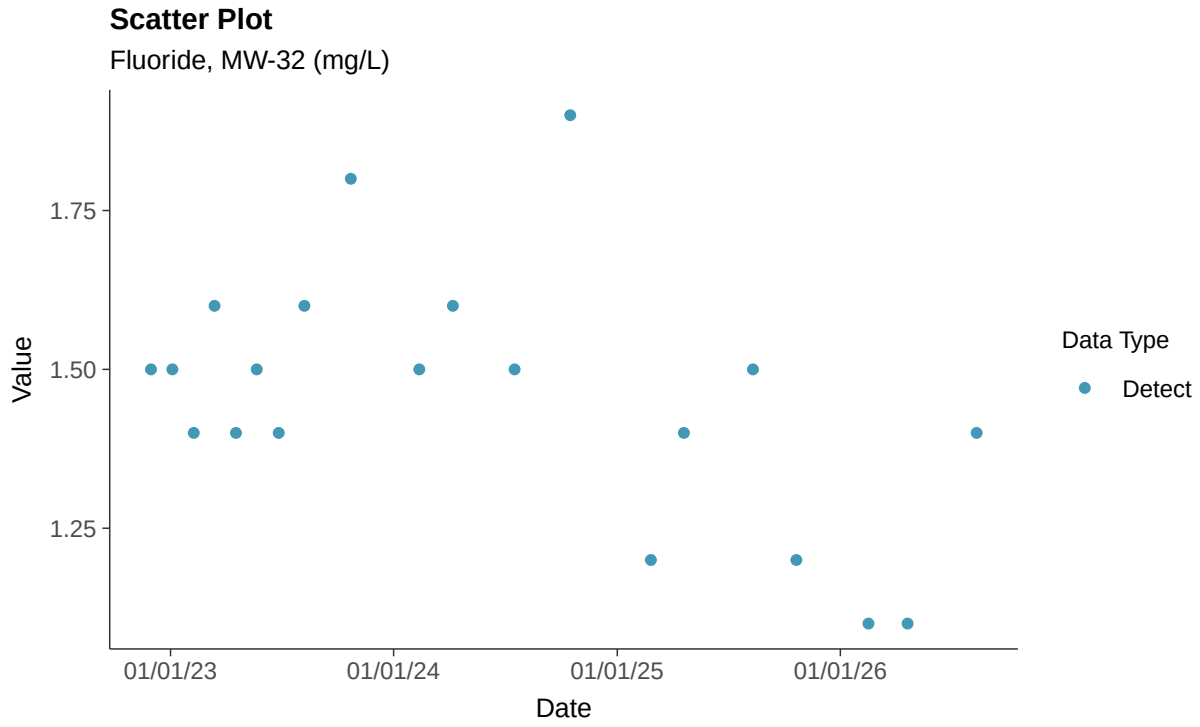
Trend Regression: Piecewise Linear-Linear-Linear

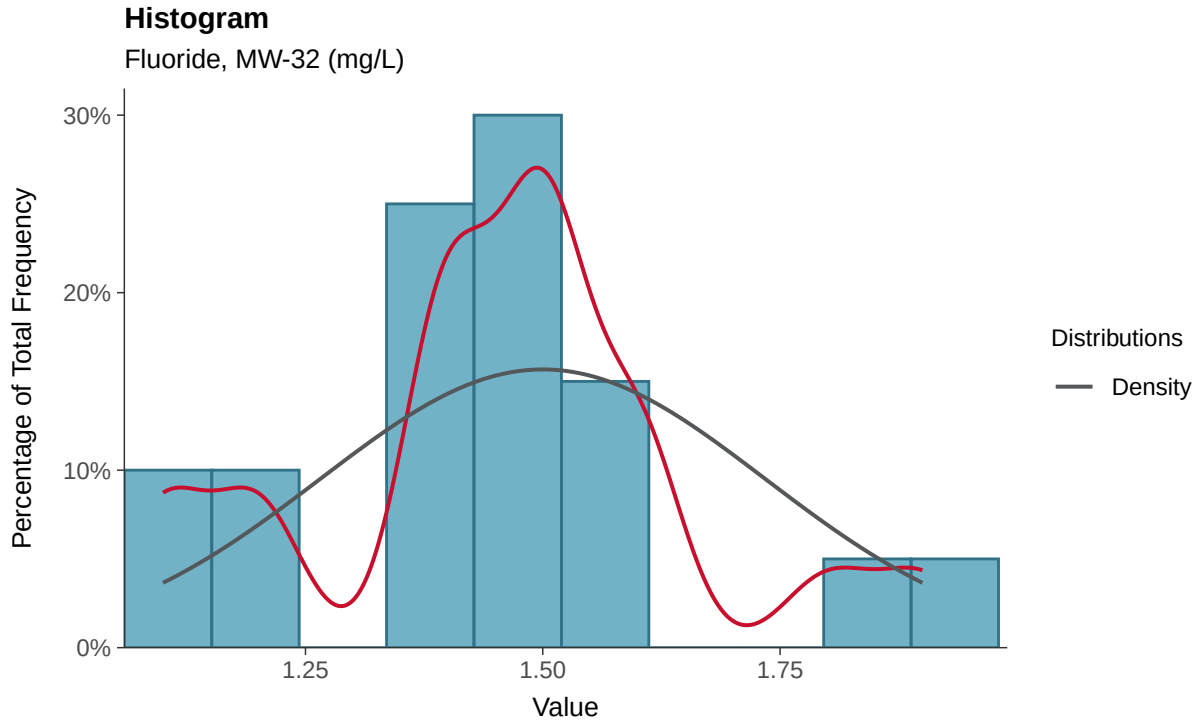
Chloride (as Cl), MW-32 (mg/L)



Appendix III: Fluoride, MW-32

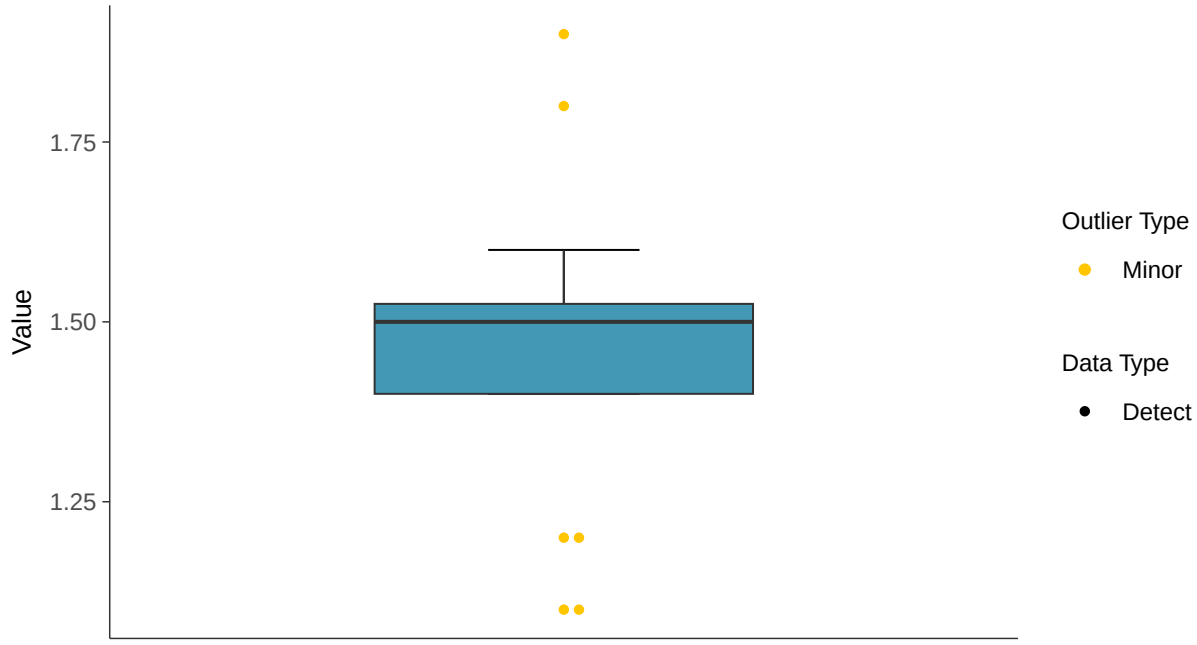
ID: 42_1_3_112





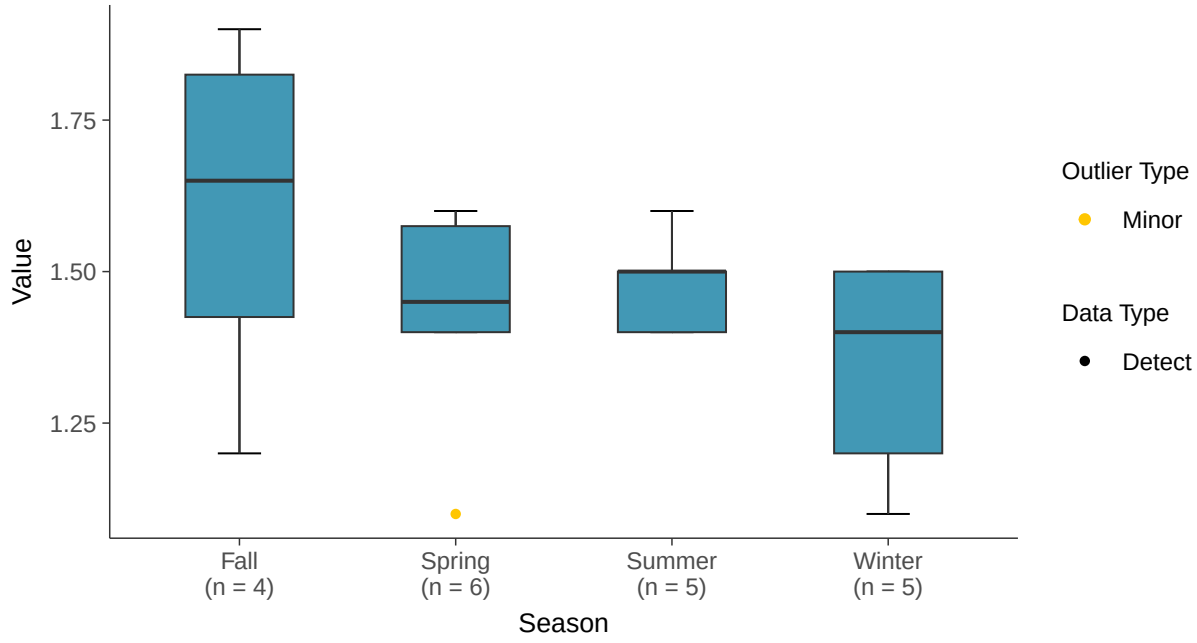
Boxplot

Fluoride, MW-32 (mg/L)



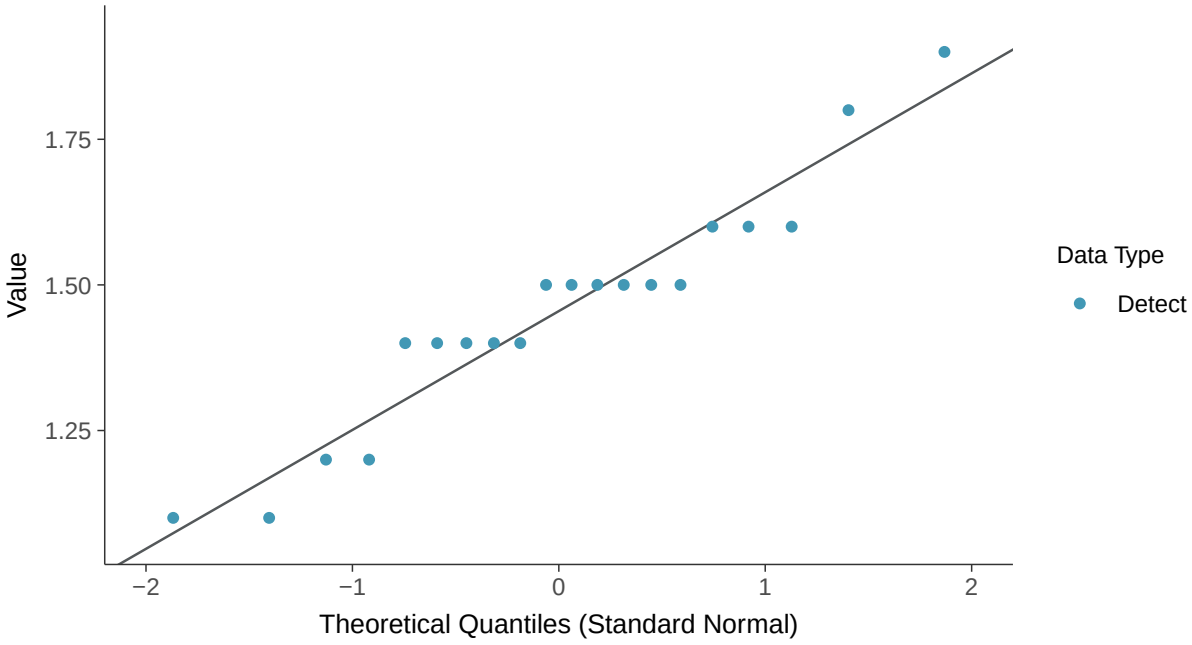
Boxplot by Season

Fluoride, MW-32 (mg/L)



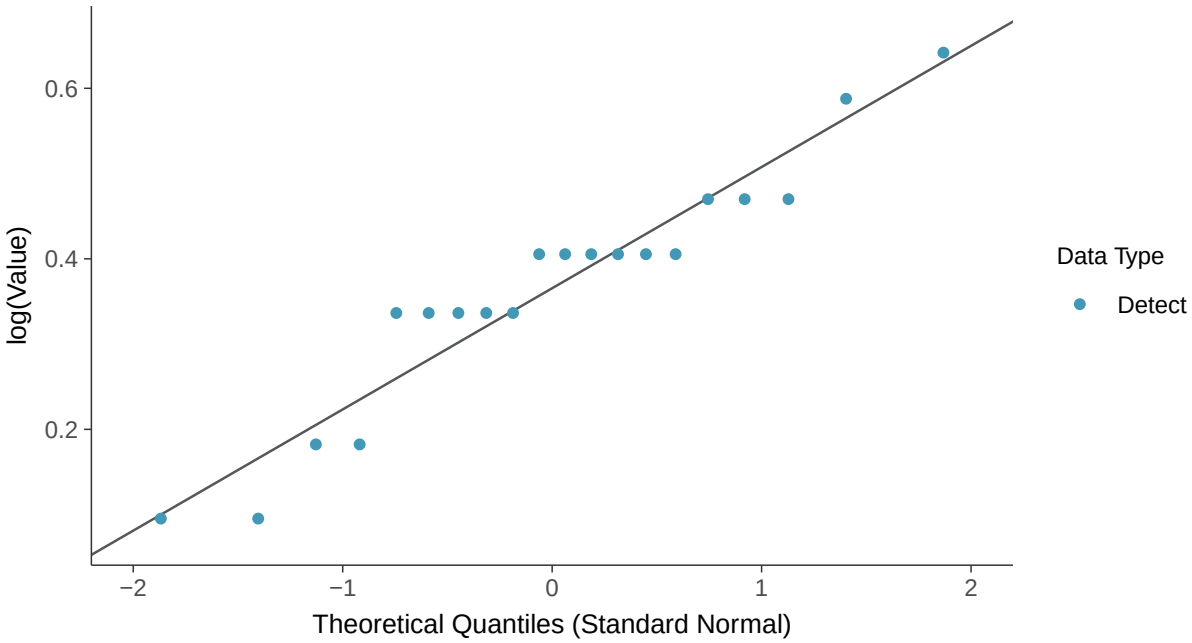
Normal Q-Q plot

Fluoride, MW-32 (mg/L)



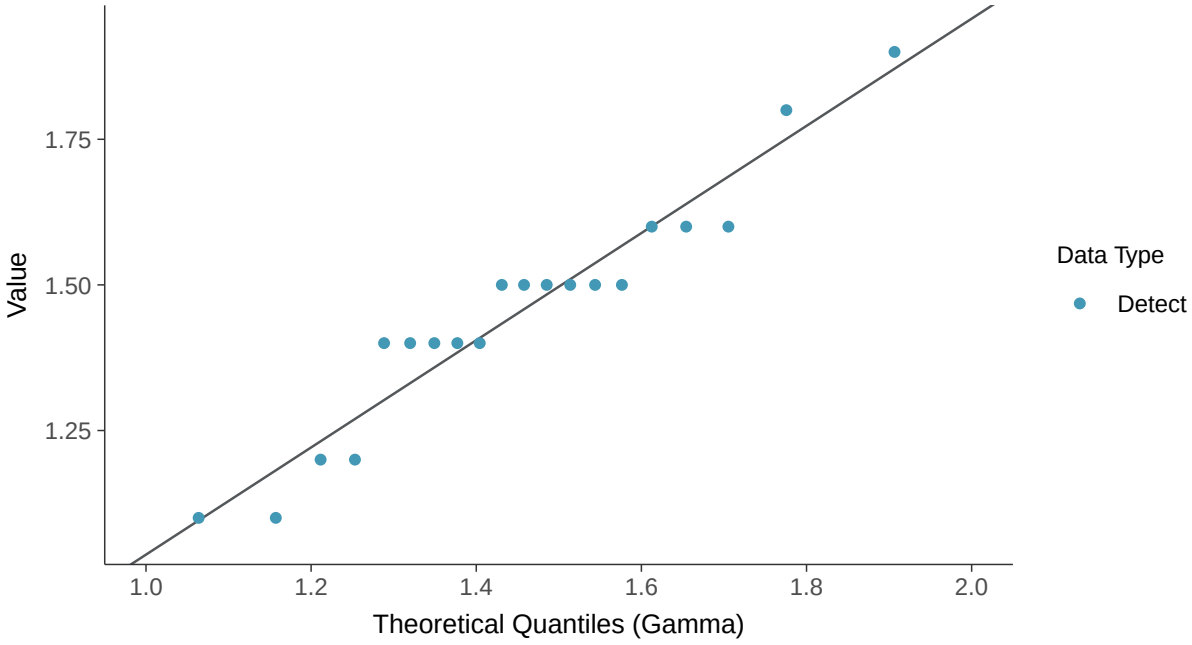
Lognormal Q-Q plot

Fluoride, MW-32 (mg/L)



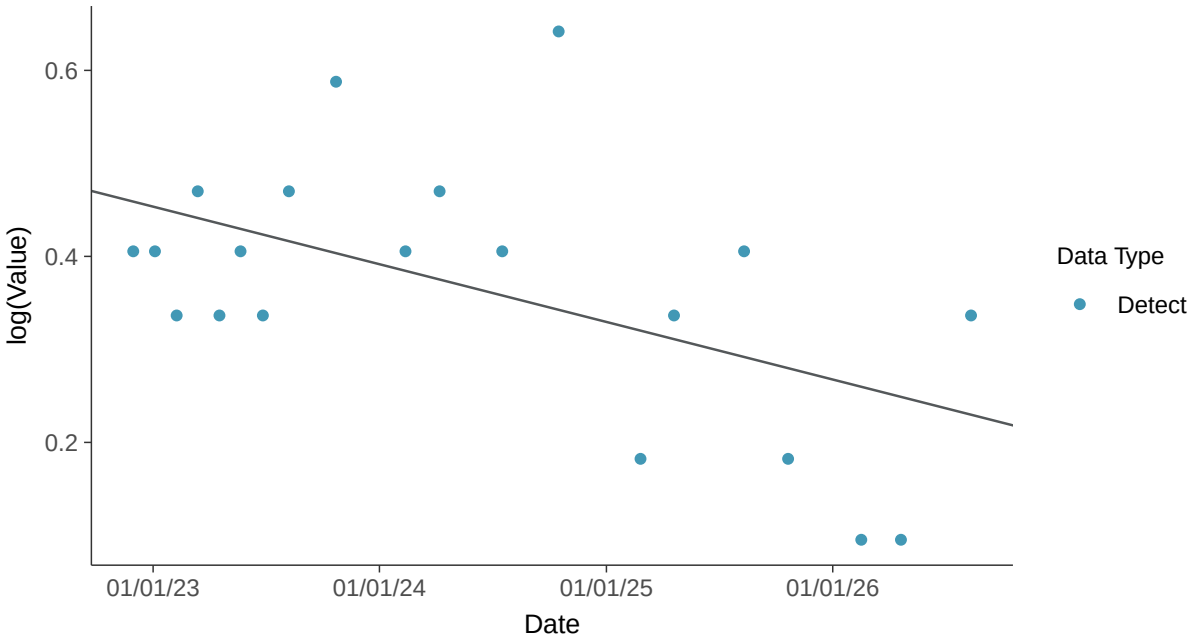
Gamma Q-Q plot

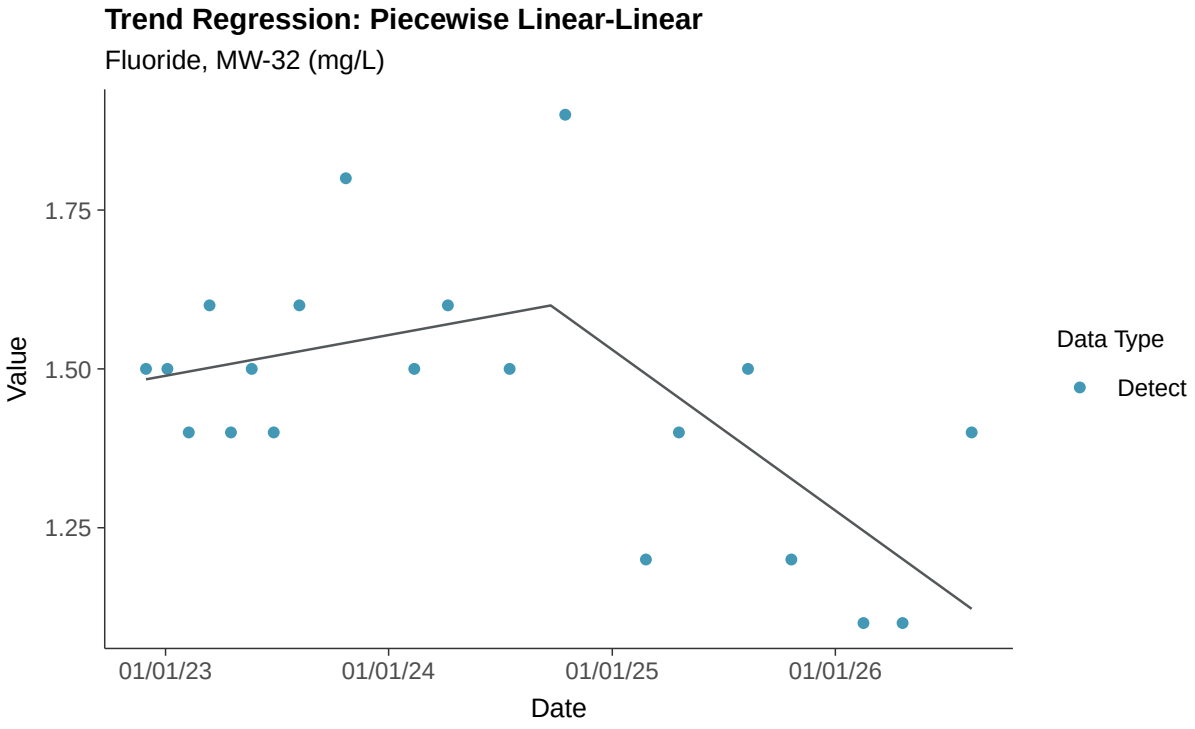
Fluoride, MW-32 (mg/L)



Trend Regression: Lognormal MLE

Fluoride, MW-32 (mg/L)



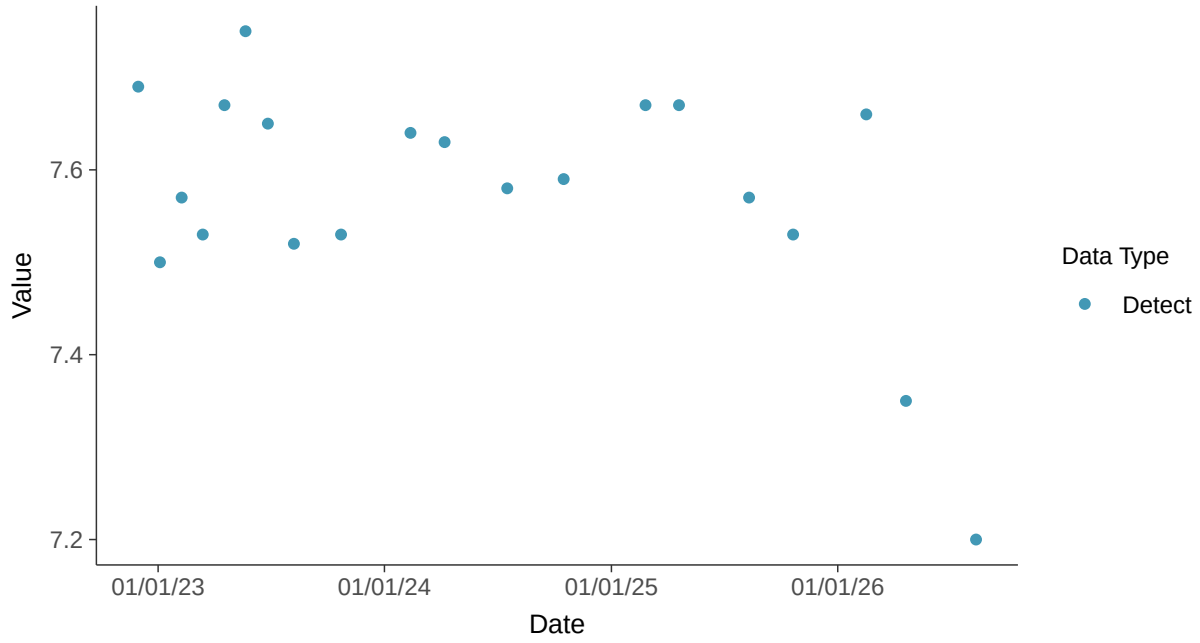

Trend Regression: Piecewise Linear-Linear
Fluoride, MW-32 (mg/L)
Value
1.75
1.50
1.25
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect

Appendix III: pH (field), MW-32

ID: 42_1_3_120

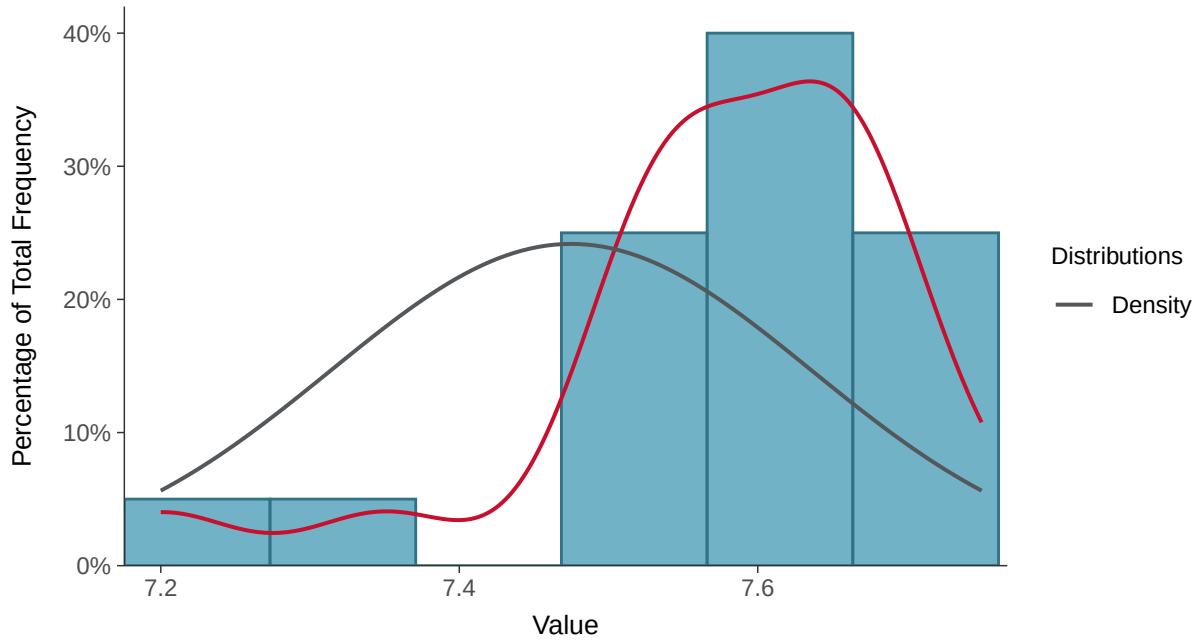
Scatter Plot

pH (field), MW-32 (su)



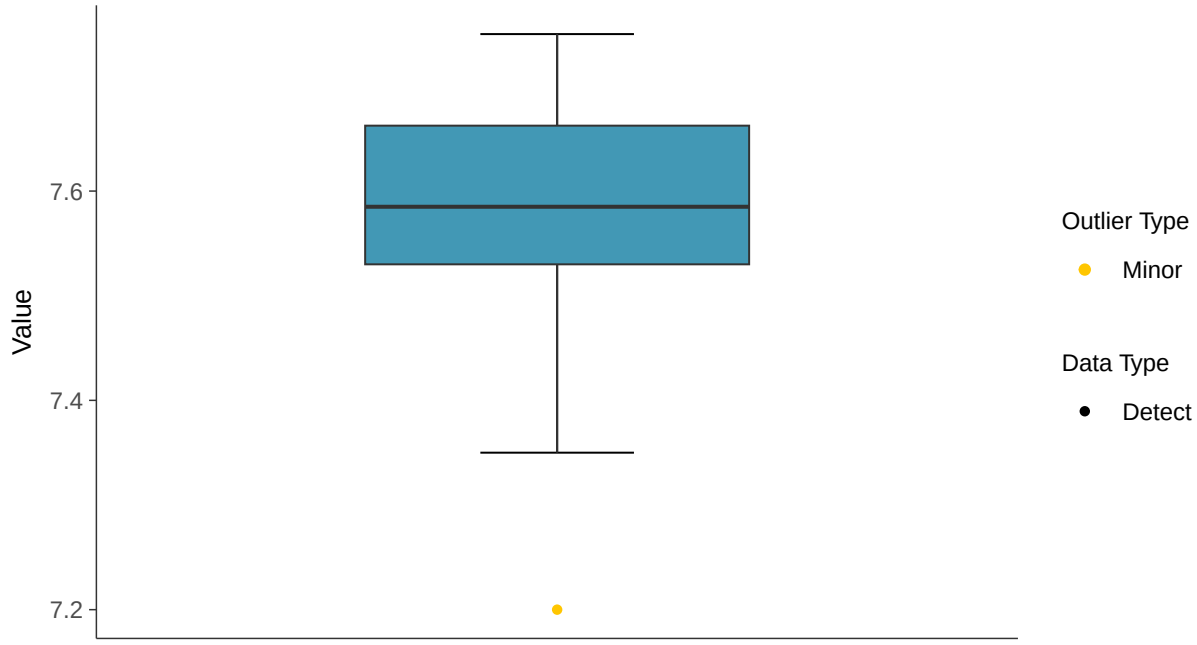
Histogram

pH (field), MW-32 (su)



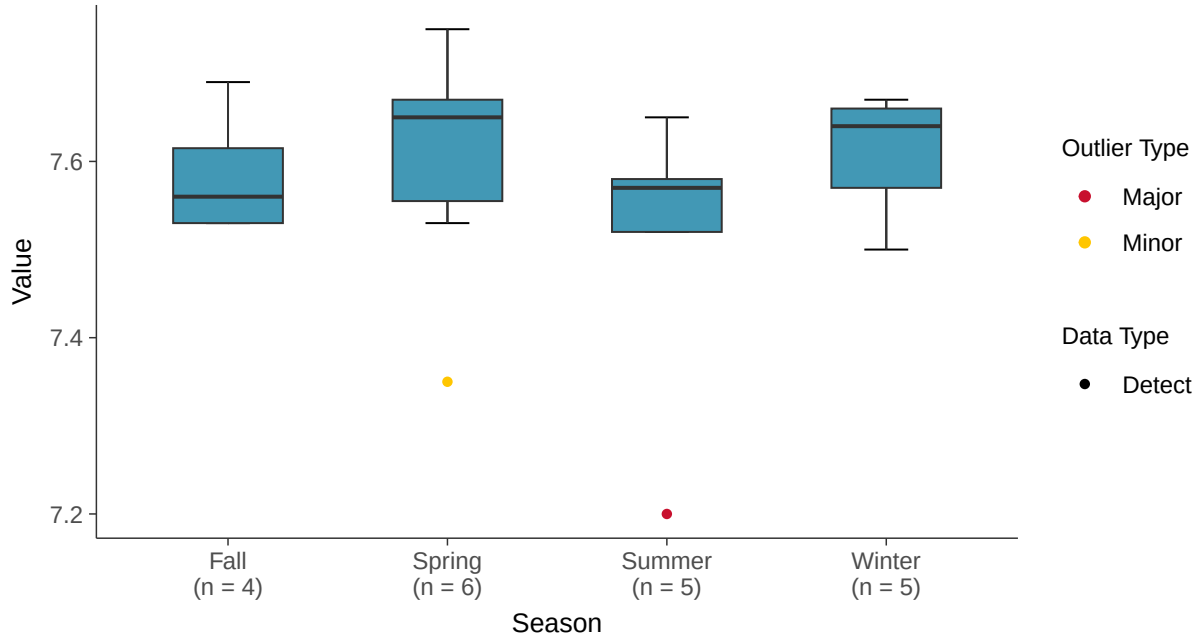
Boxplot

pH (field), MW-32 (su)



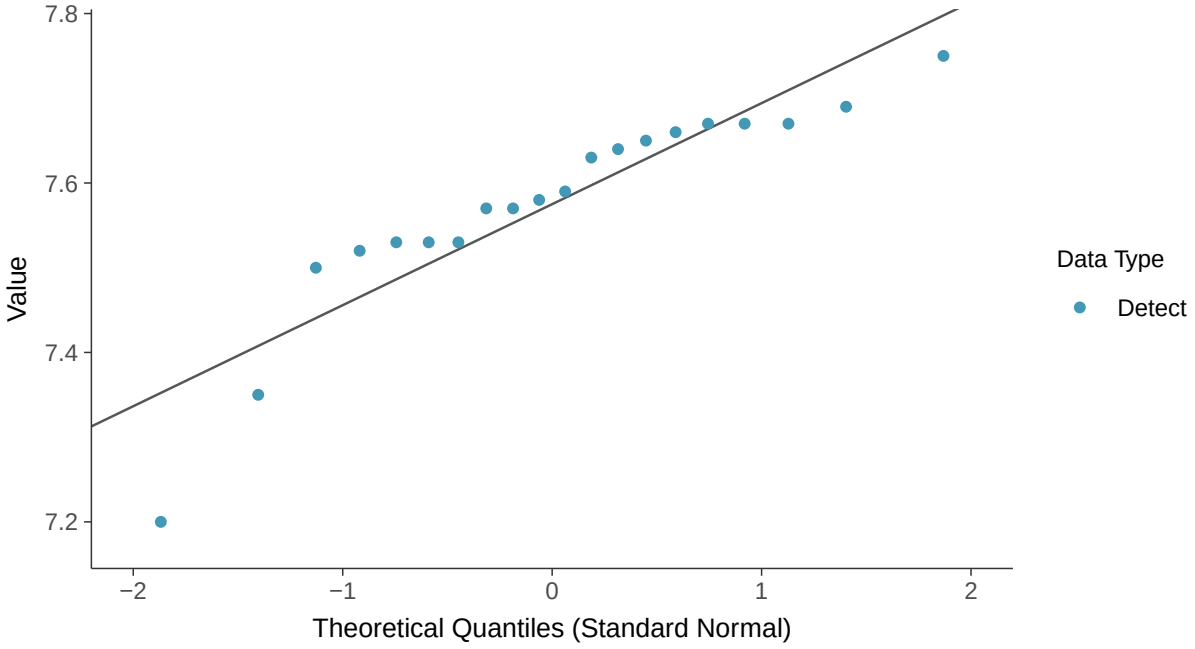
Boxplot by Season

pH (field), MW-32 (su)



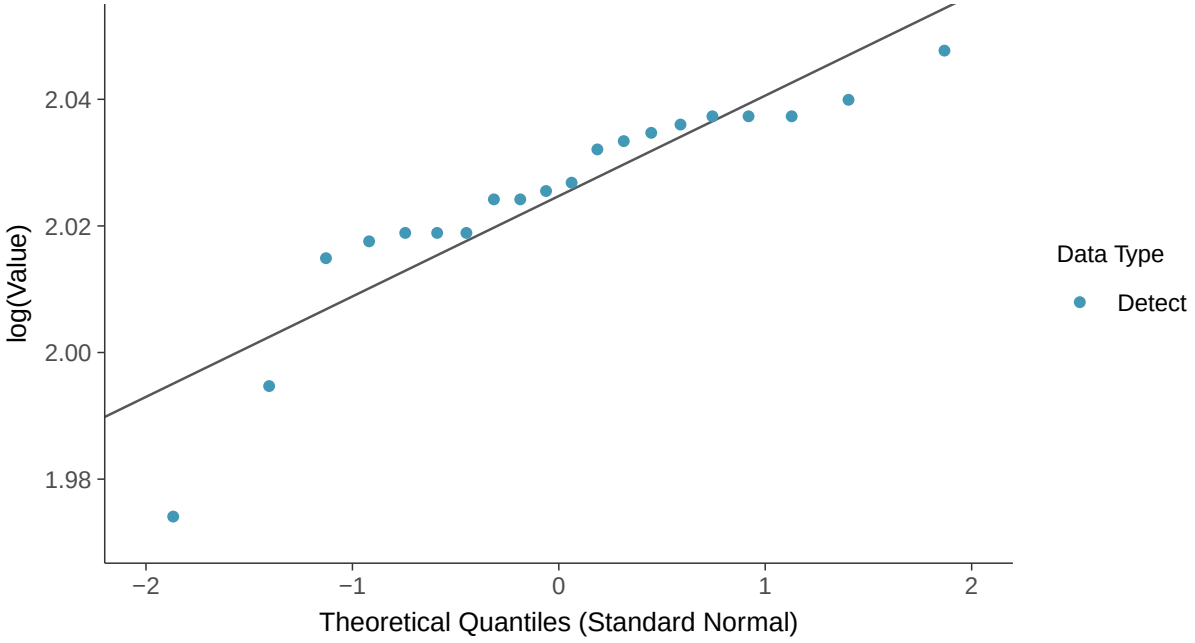
Normal Q-Q plot

pH (field), MW-32 (su)



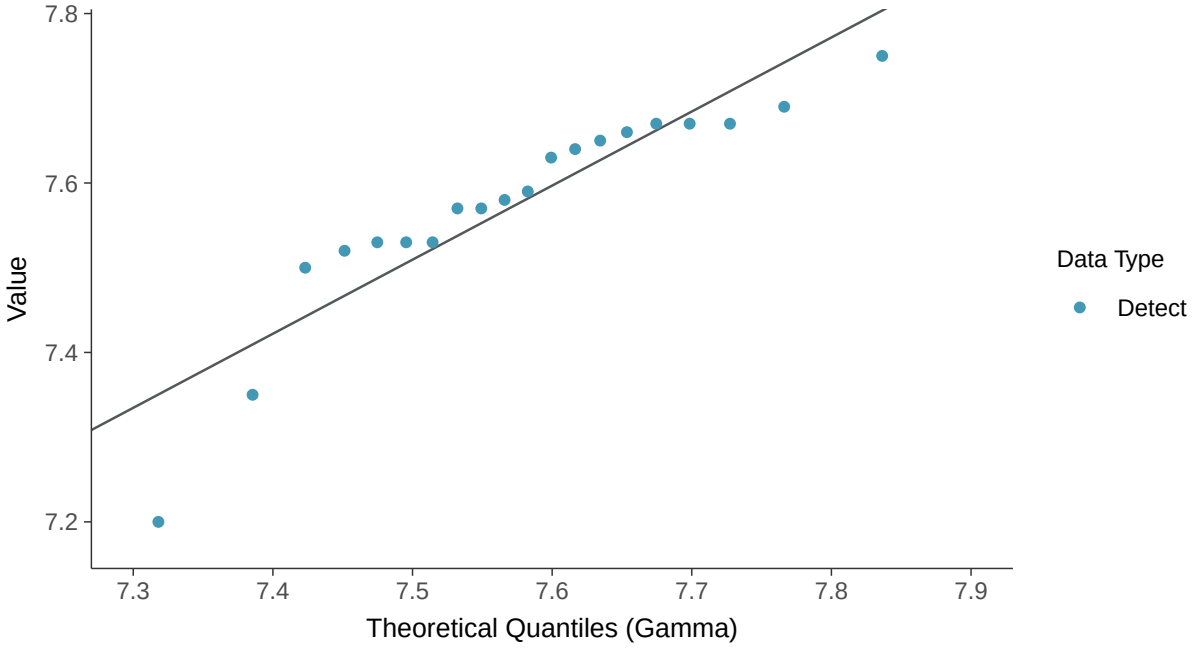
Lognormal Q-Q plot

pH (field), MW-32 (su)



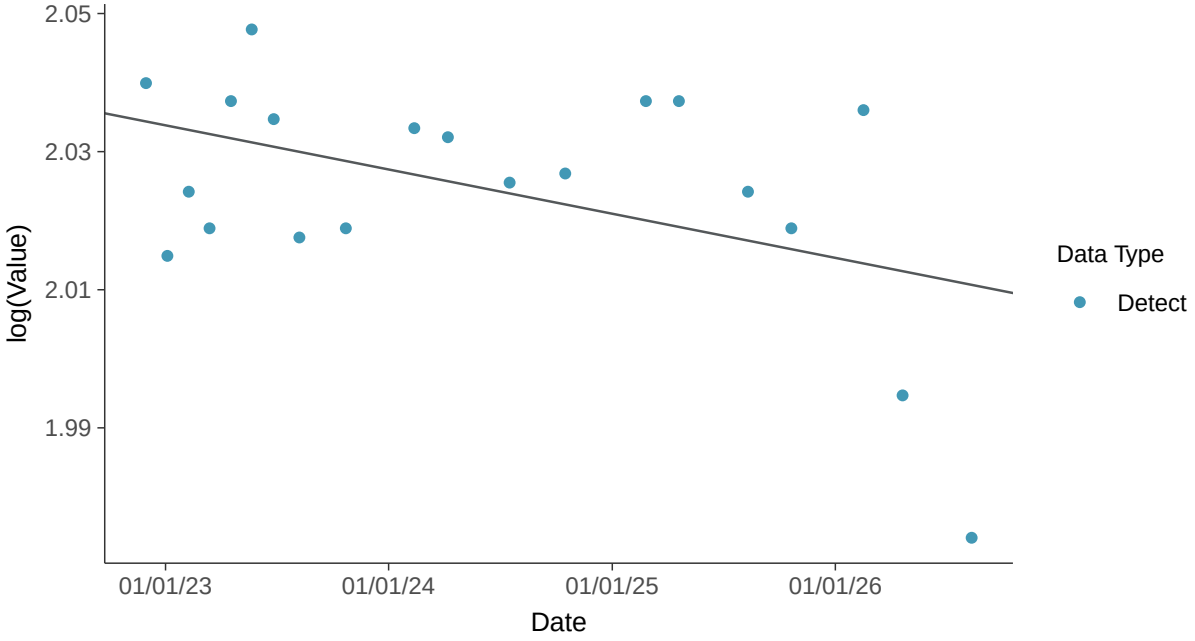
Gamma Q-Q plot

pH (field), MW-32 (su)



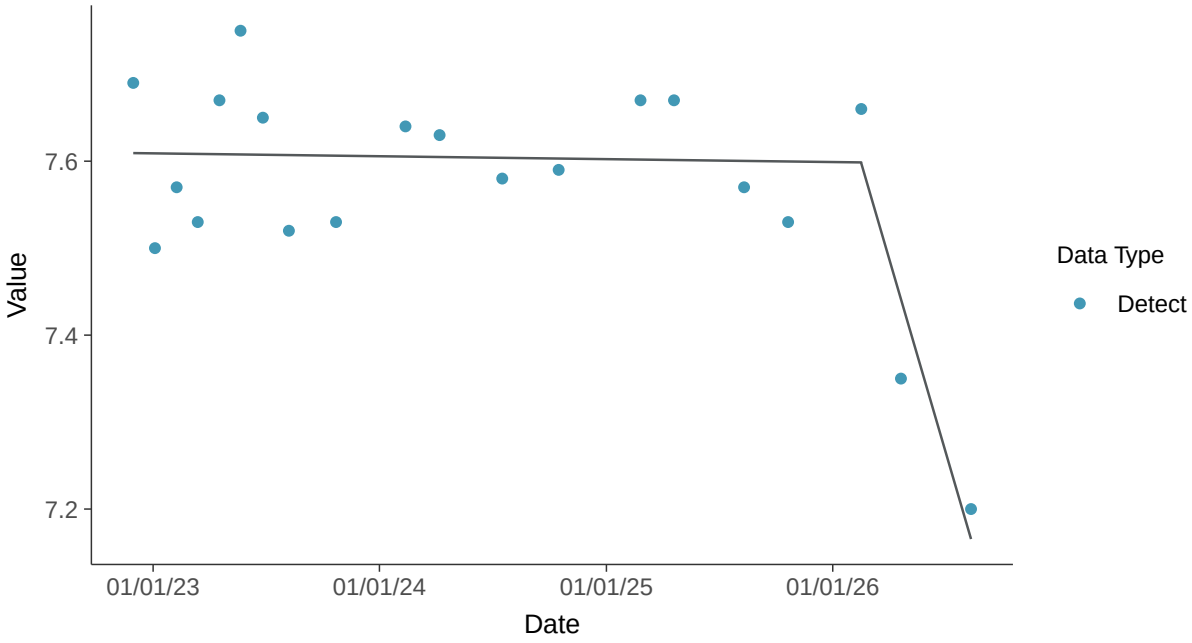
Trend Regression: Lognormal MLE

pH (field), MW-32 (su)



Trend Regression: Piecewise Linear-Linear

pH (field), MW-32 (su)

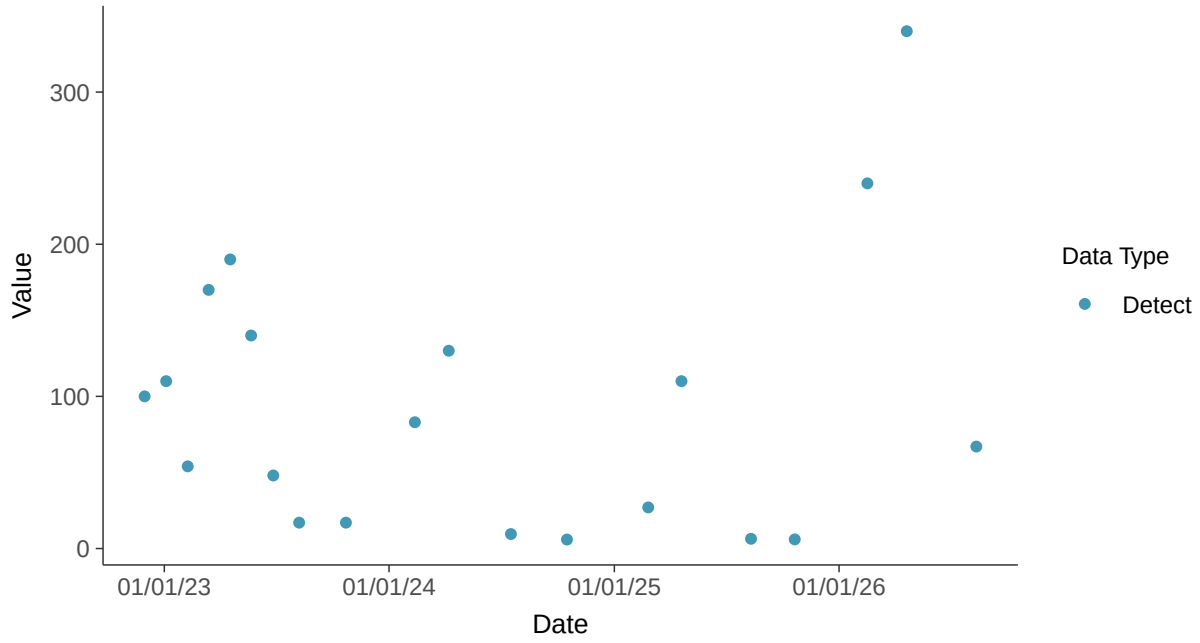


Appendix III: Sulfate (as SO4), MW-32

ID: 42_1_3_124

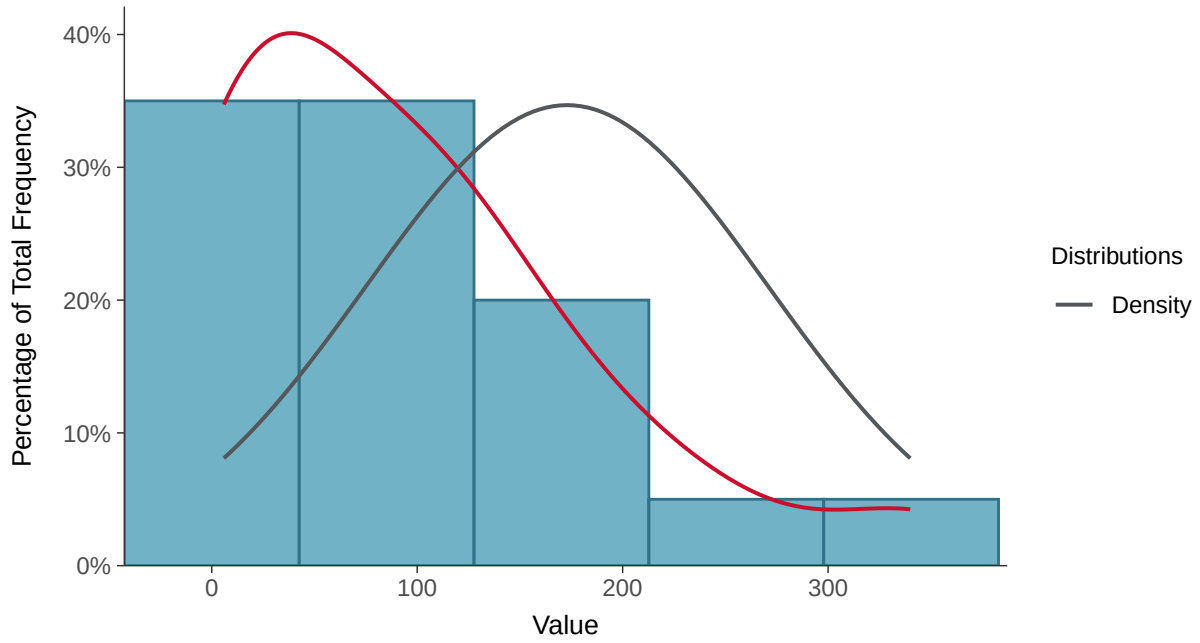
Scatter Plot

Sulfate (as SO4), MW-32 (mg/L)



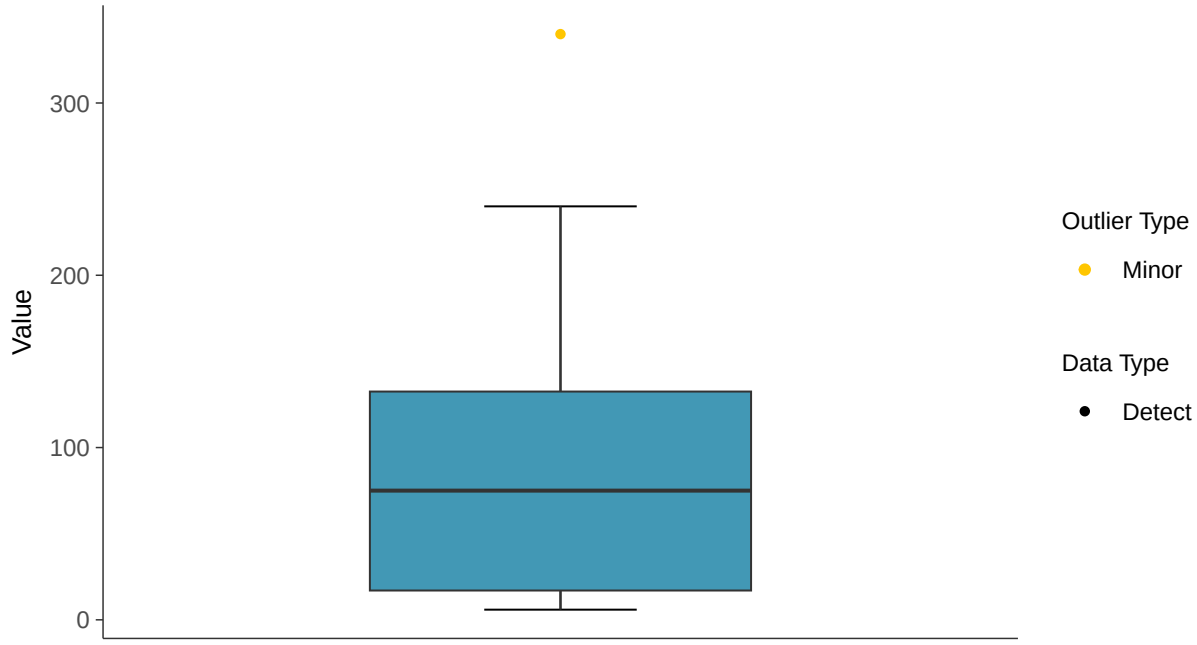
Histogram

Sulfate (as SO4), MW-32 (mg/L)



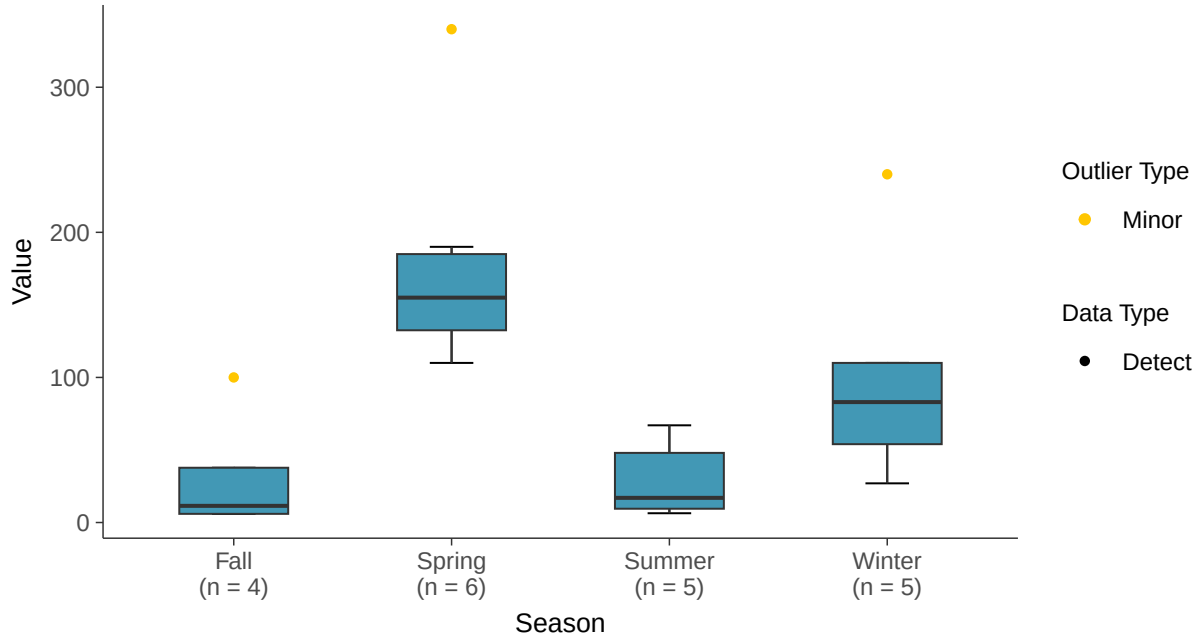
Boxplot

Sulfate (as SO4), MW-32 (mg/L)



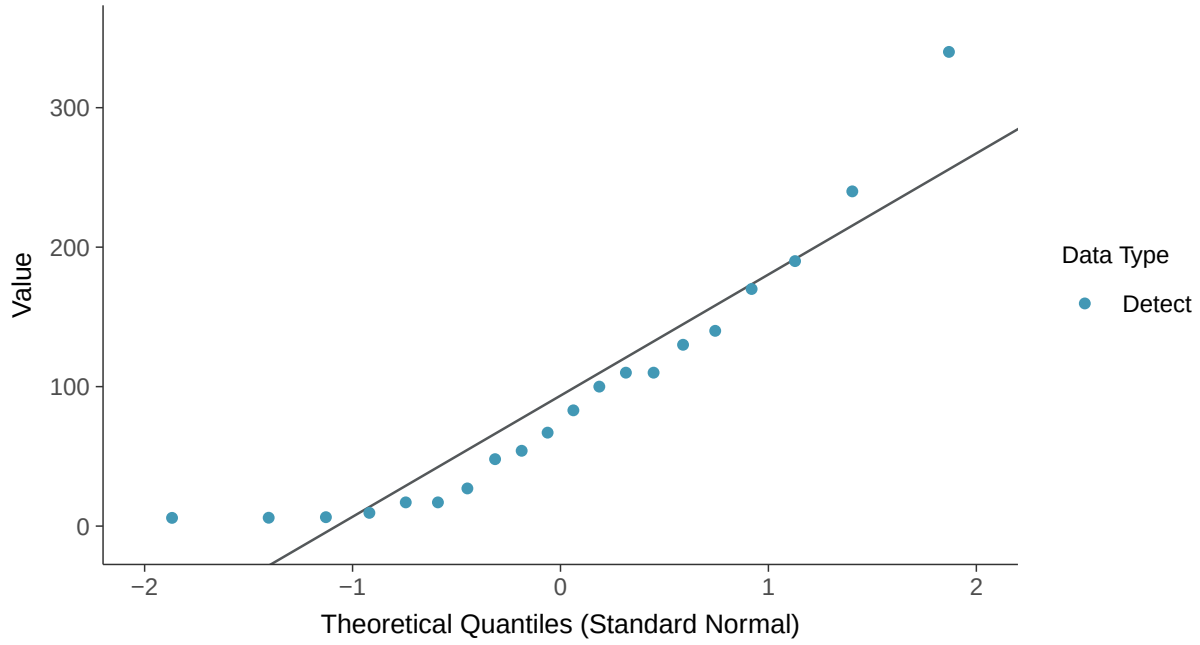
Boxplot by Season

Sulfate (as SO4), MW-32 (mg/L)



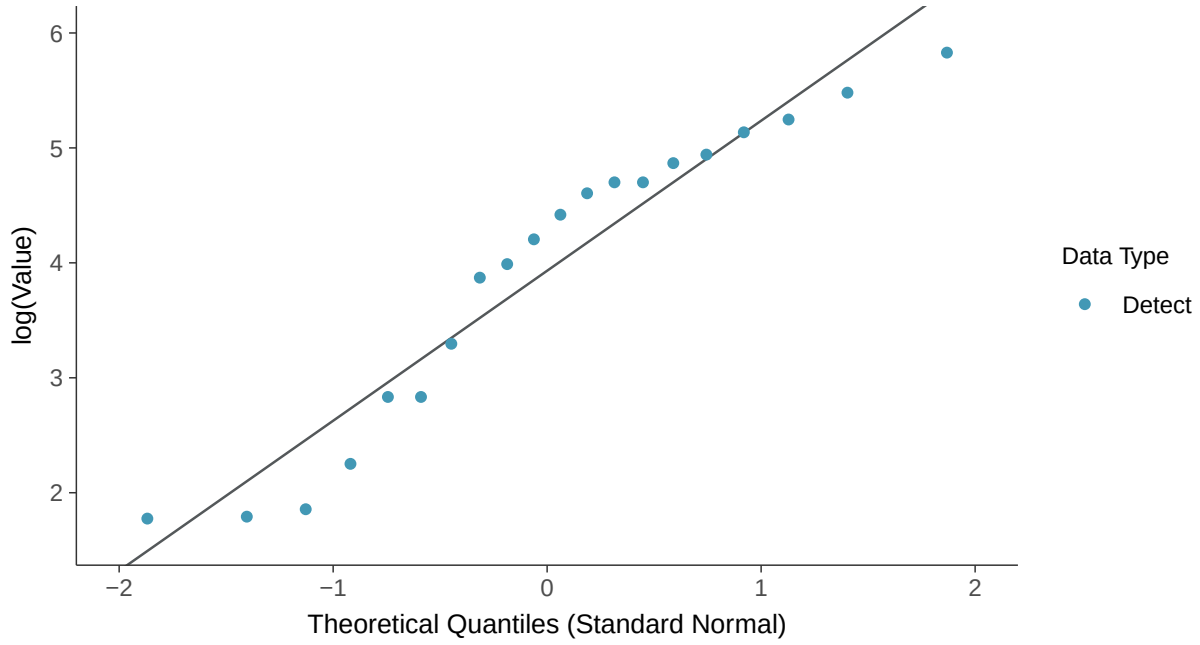
Normal Q-Q plot

Sulfate (as SO4), MW-32 (mg/L)



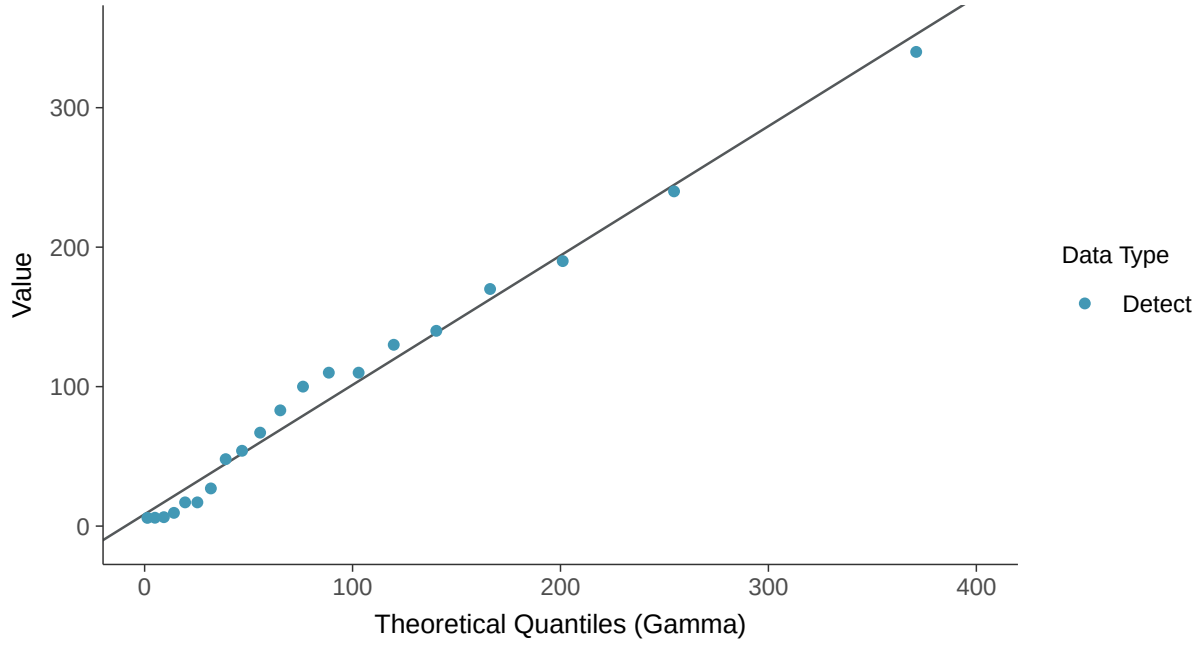
Lognormal Q-Q plot

Sulfate (as SO4), MW-32 (mg/L)



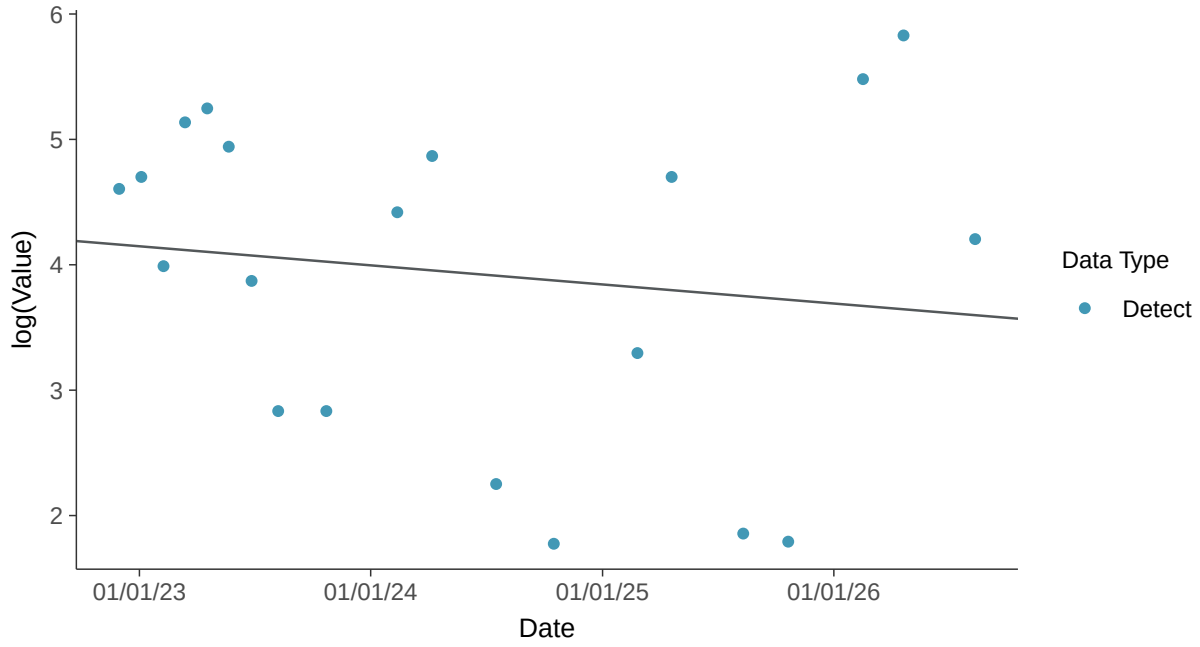
Gamma Q-Q plot

Sulfate (as SO4), MW-32 (mg/L)



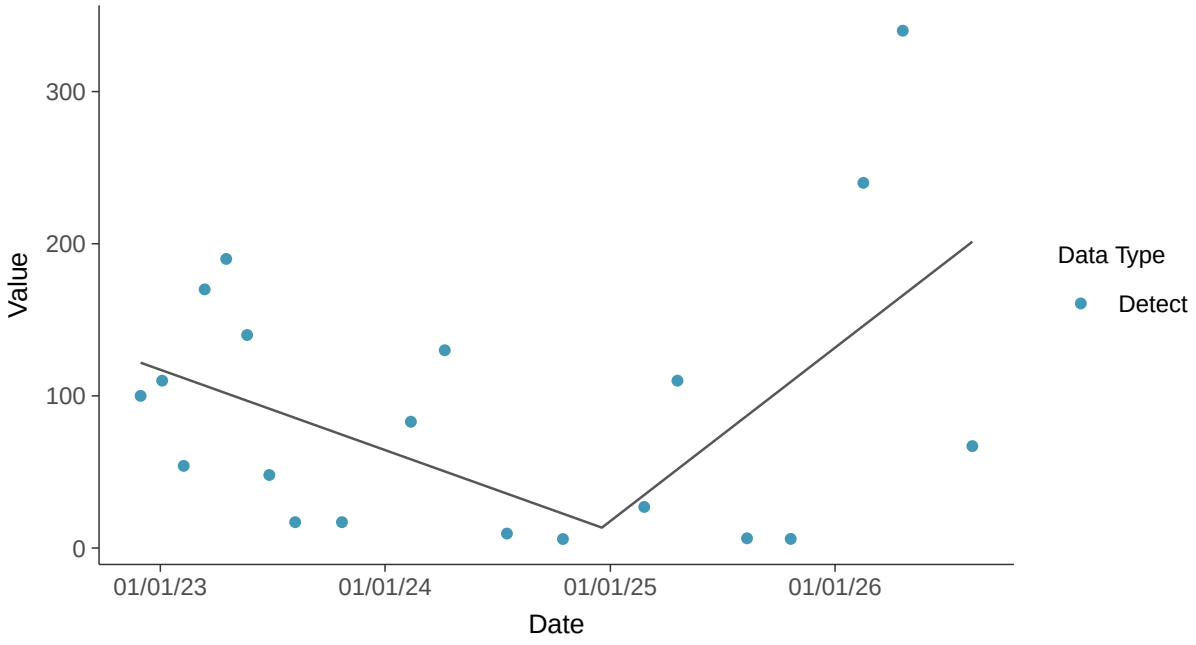
Trend Regression: Lognormal MLE

Sulfate (as SO4), MW-32 (mg/L)



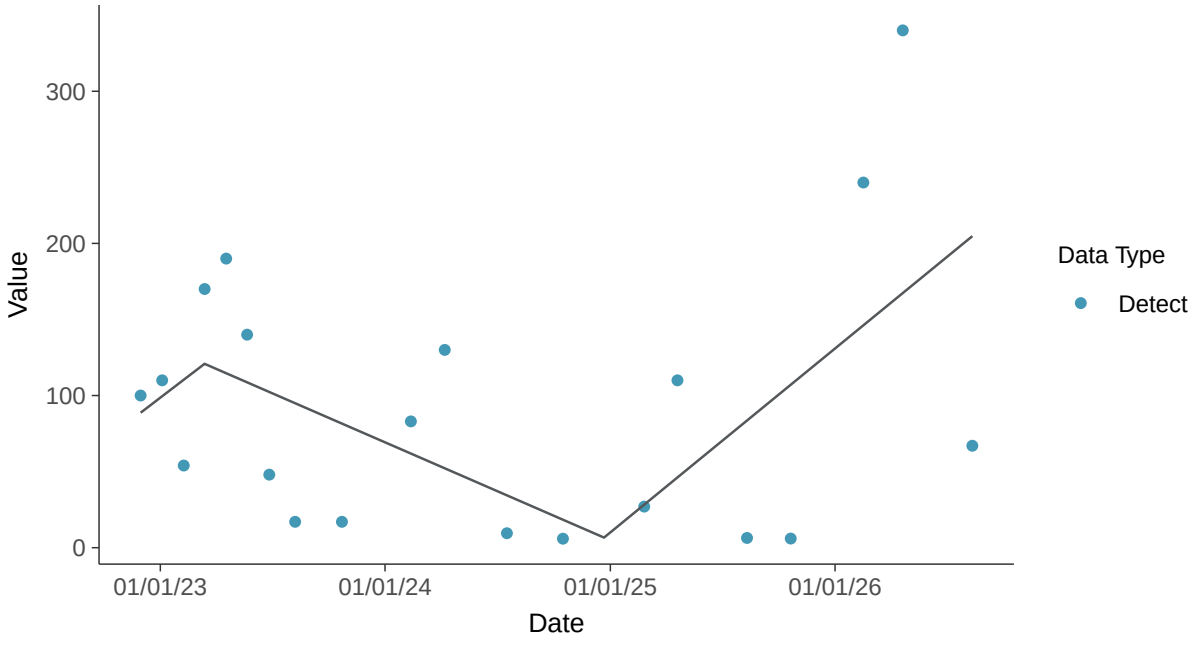
Trend Regression: Piecewise Linear-Linear

Sulfate (as SO4), MW-32 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Sulfate (as SO4), MW-32 (mg/L)

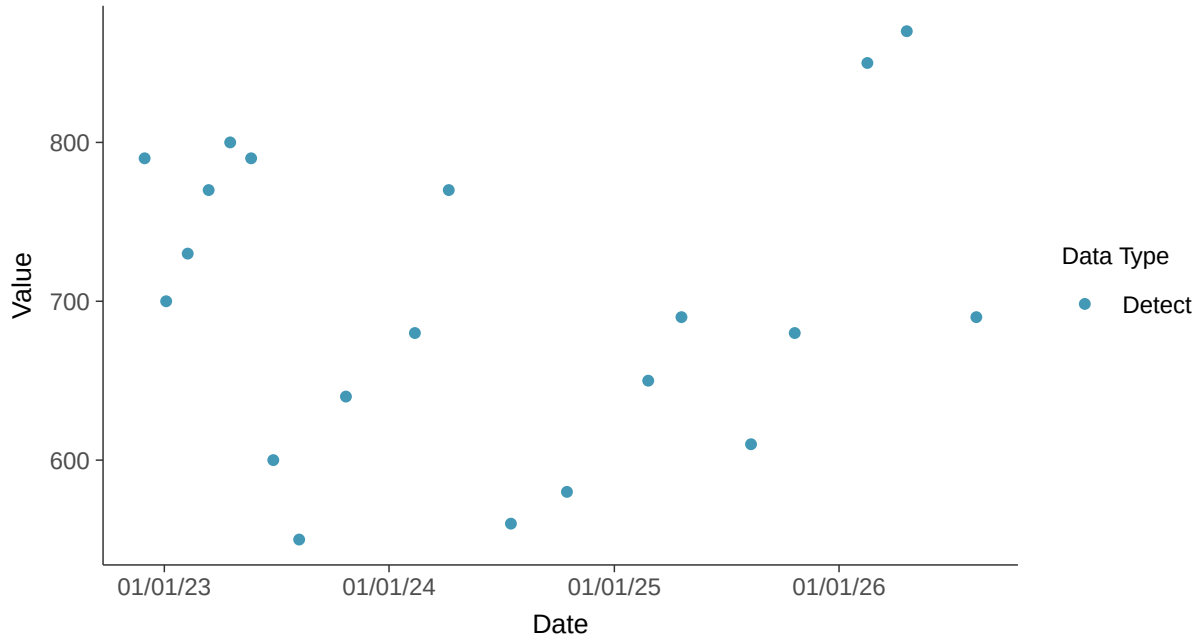


Appendix III: Total Dissolved Solids, MW-32

ID: 42_1_3_126

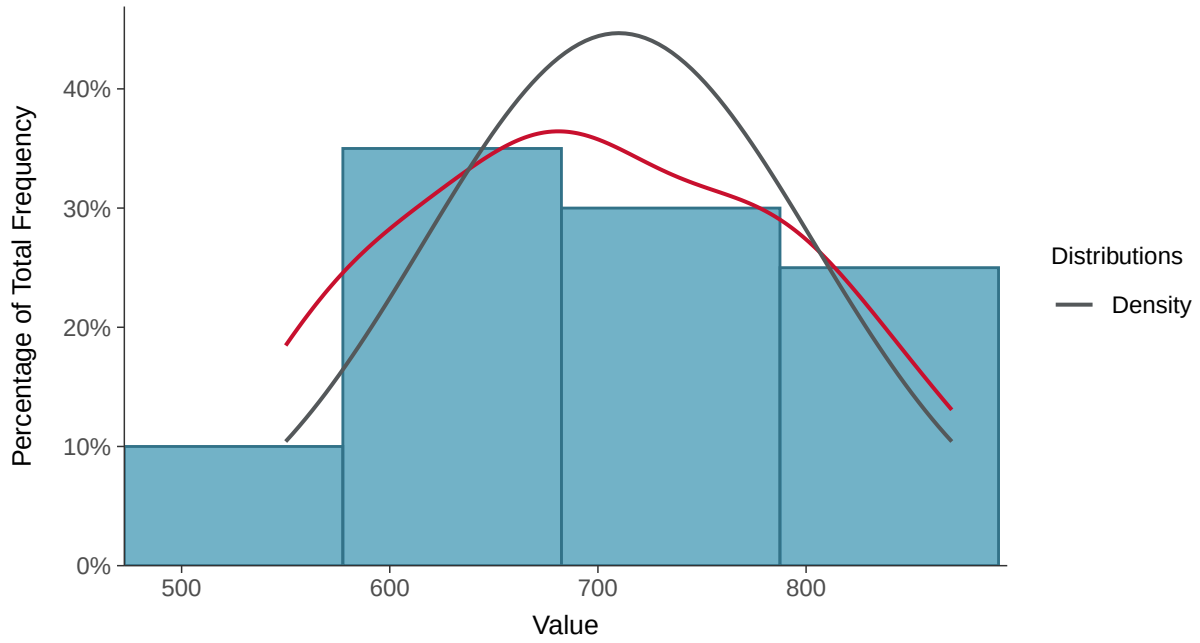
Scatter Plot

Total Dissolved Solids, MW-32 (mg/L)



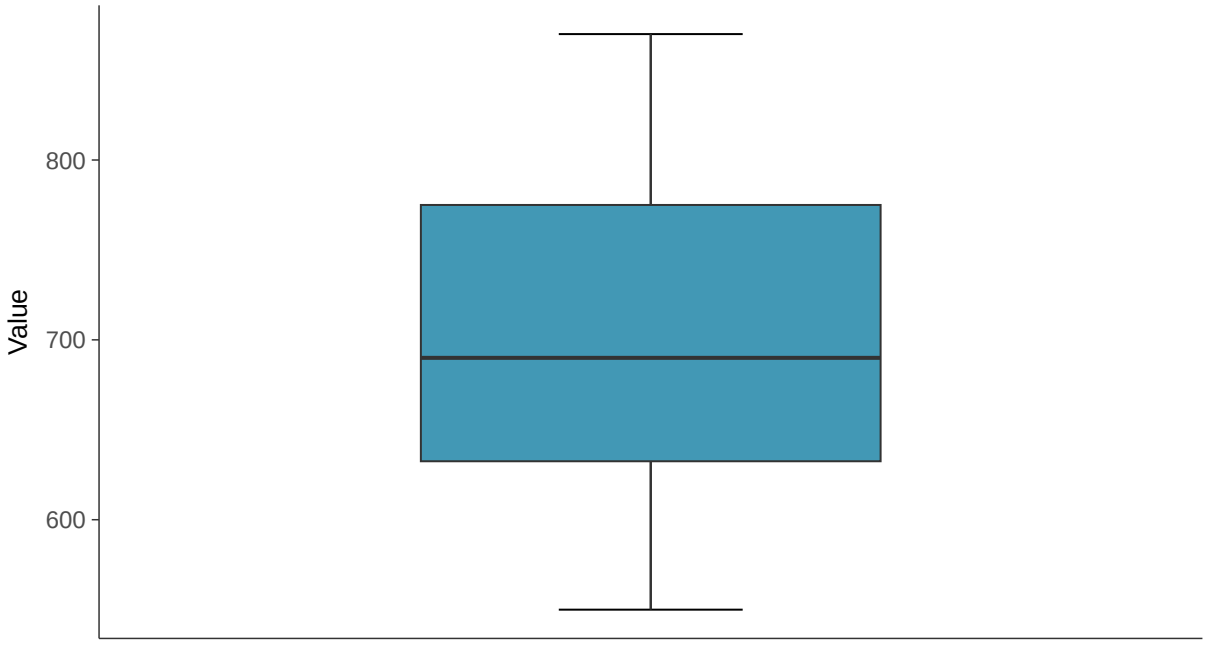
Histogram

Total Dissolved Solids, MW-32 (mg/L)



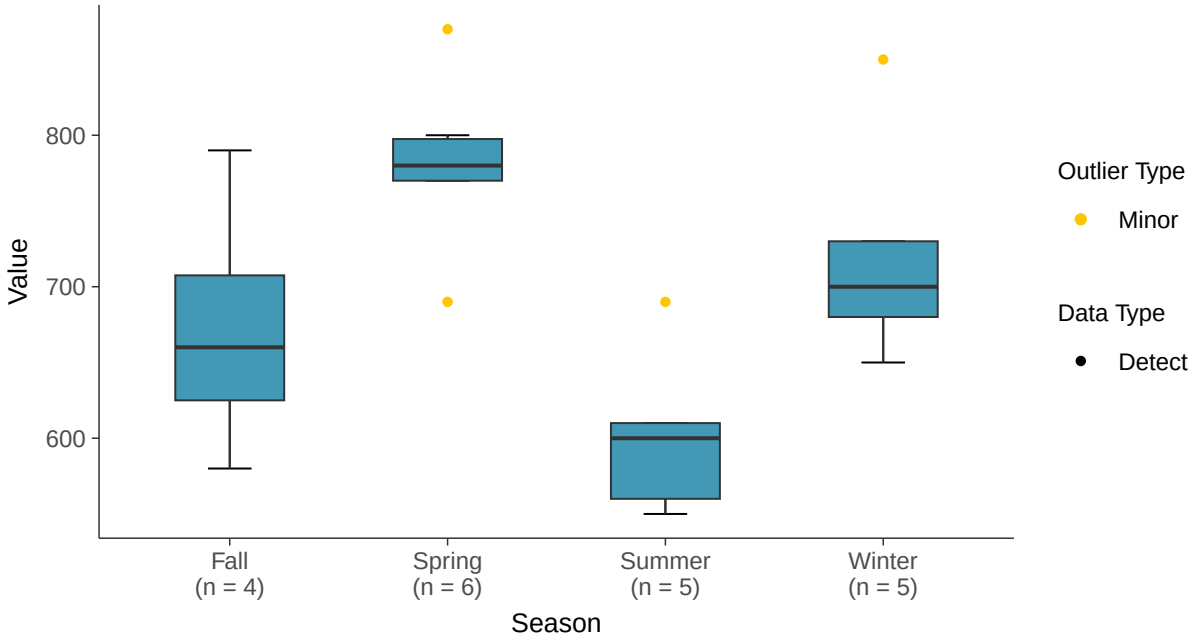
Boxplot

Total Dissolved Solids, MW-32 (mg/L)



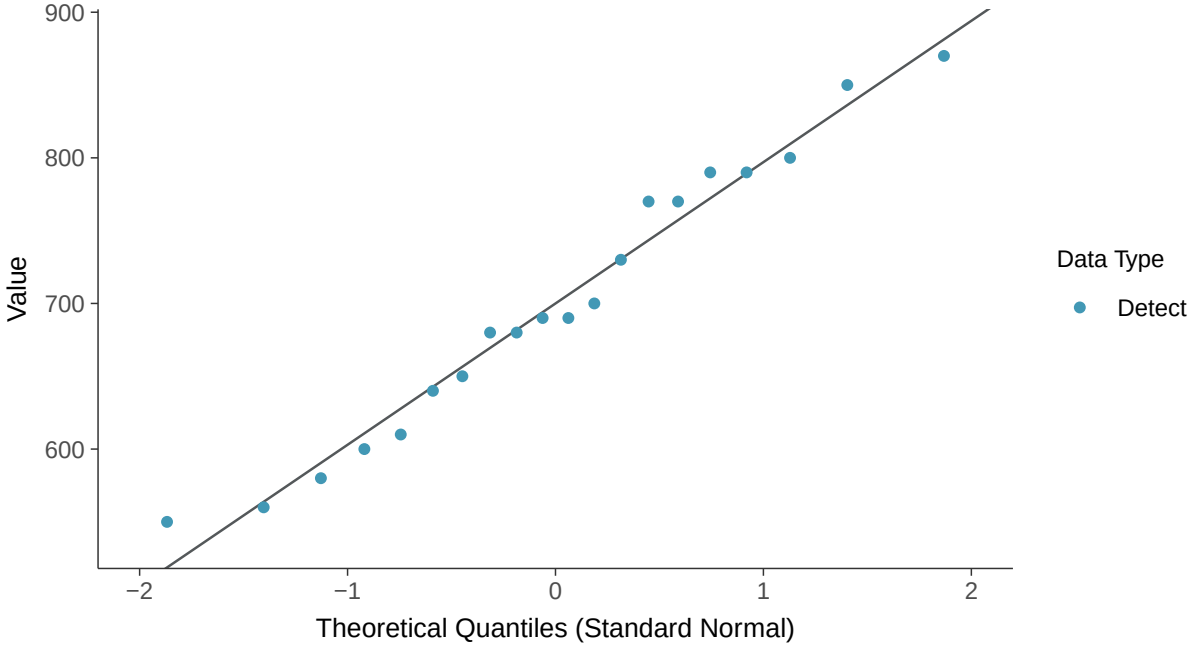
Boxplot by Season

Total Dissolved Solids, MW-32 (mg/L)



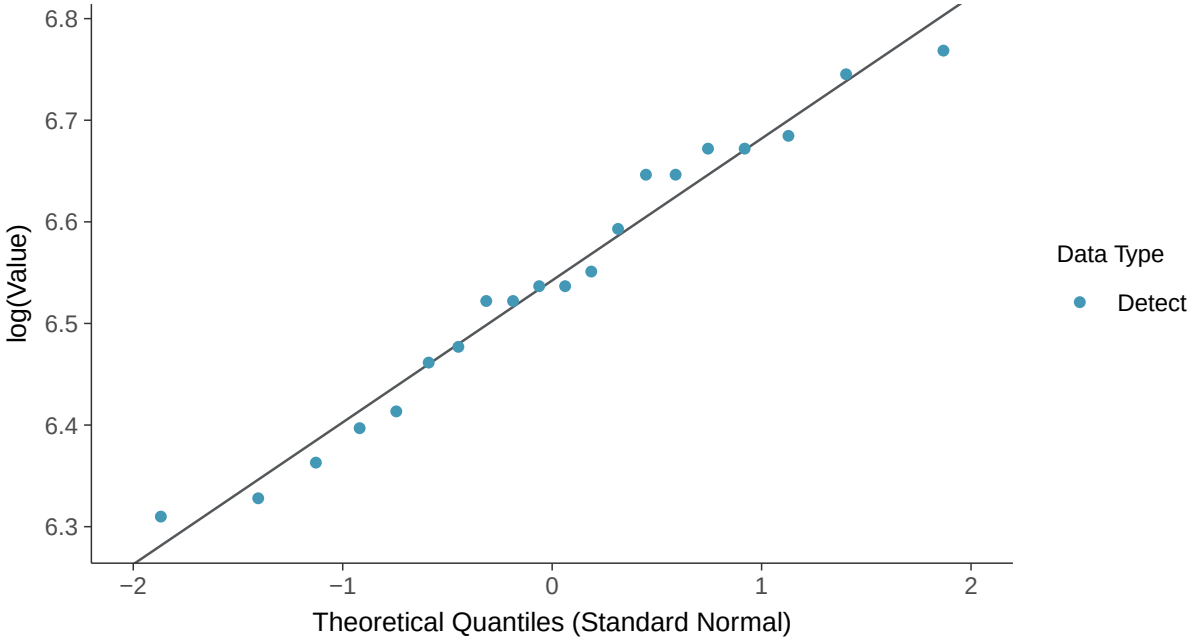
Normal Q-Q plot

Total Dissolved Solids, MW-32 (mg/L)



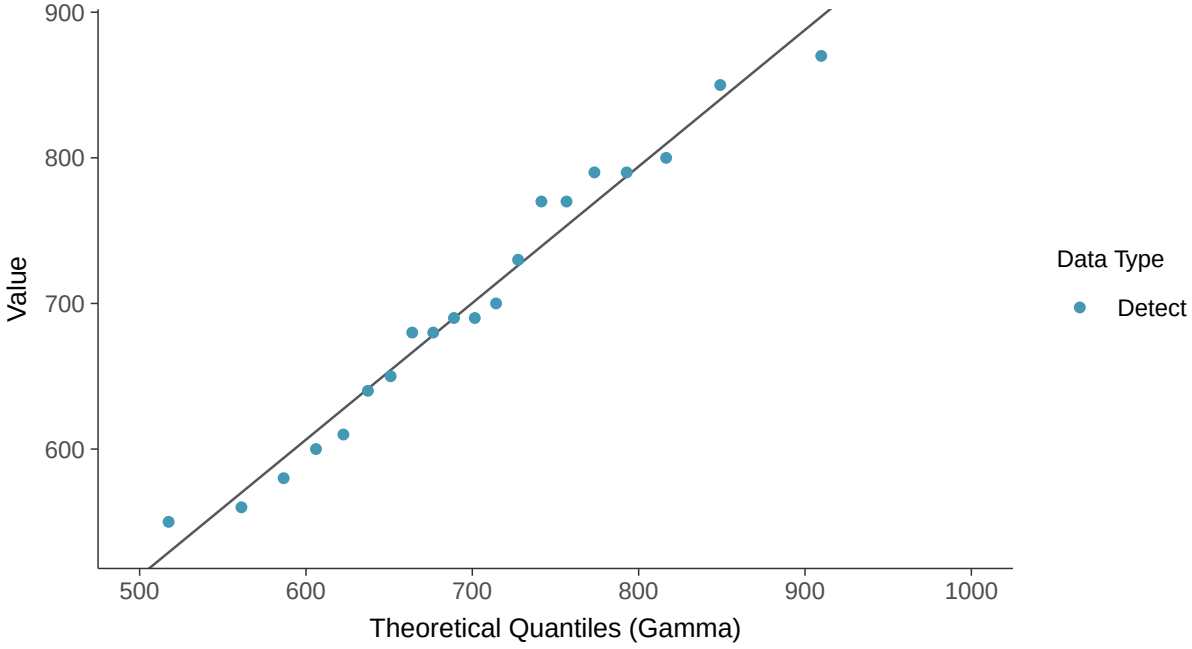
Lognormal Q-Q plot

Total Dissolved Solids, MW-32 (mg/L)



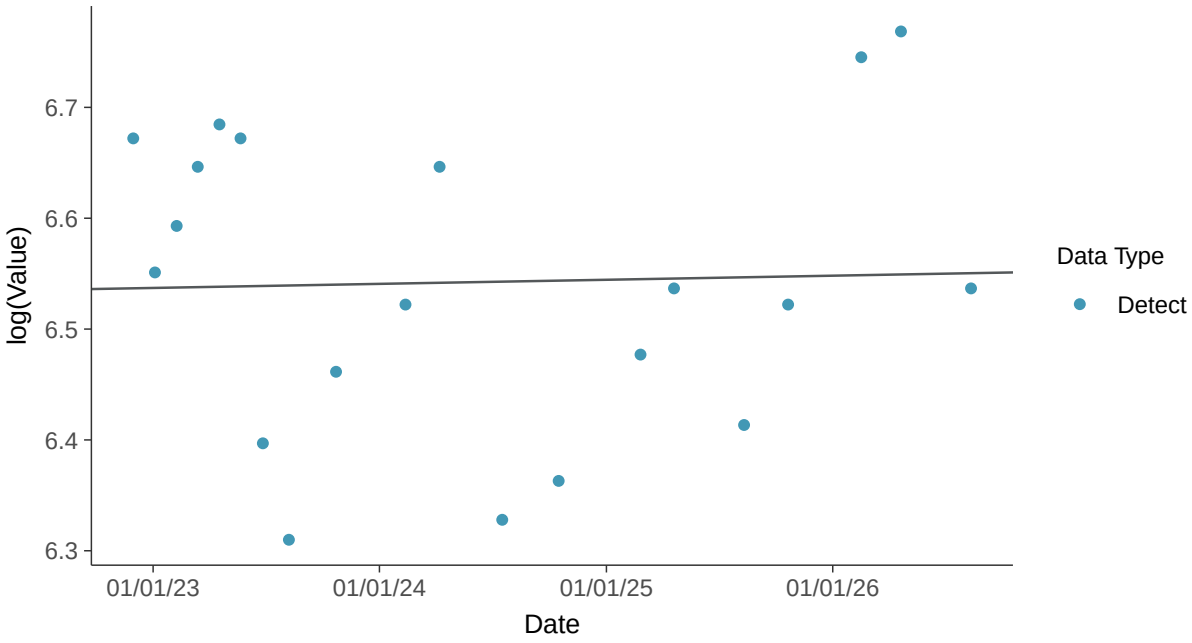
Gamma Q-Q plot

Total Dissolved Solids, MW-32 (mg/L)



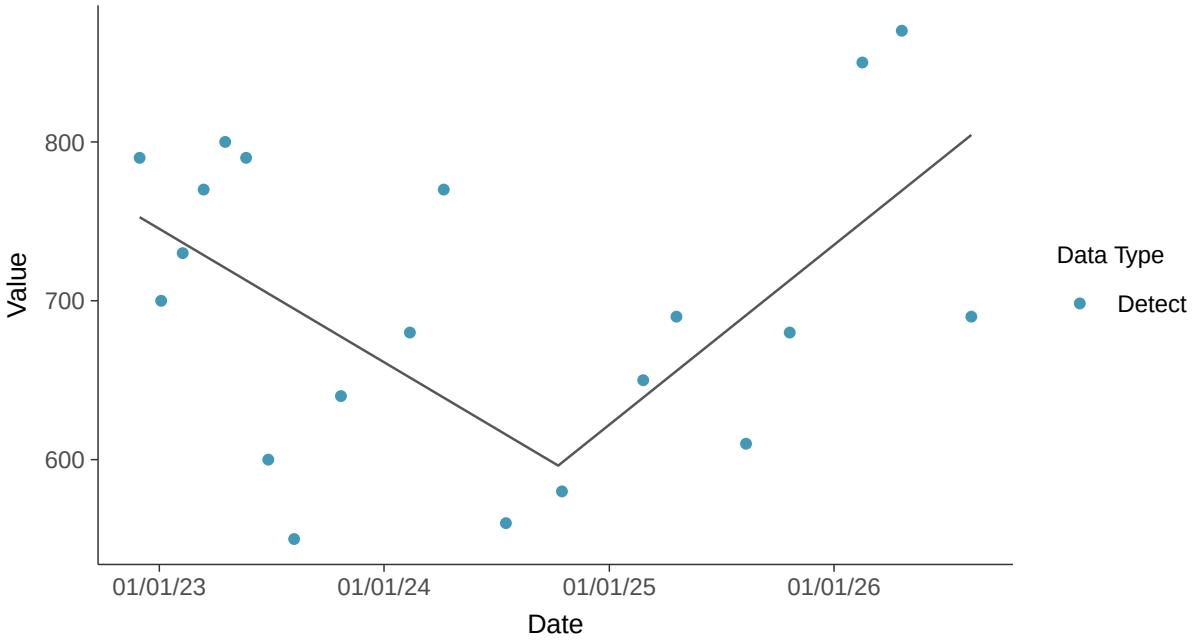
Trend Regression: Lognormal MLE

Total Dissolved Solids, MW-32 (mg/L)



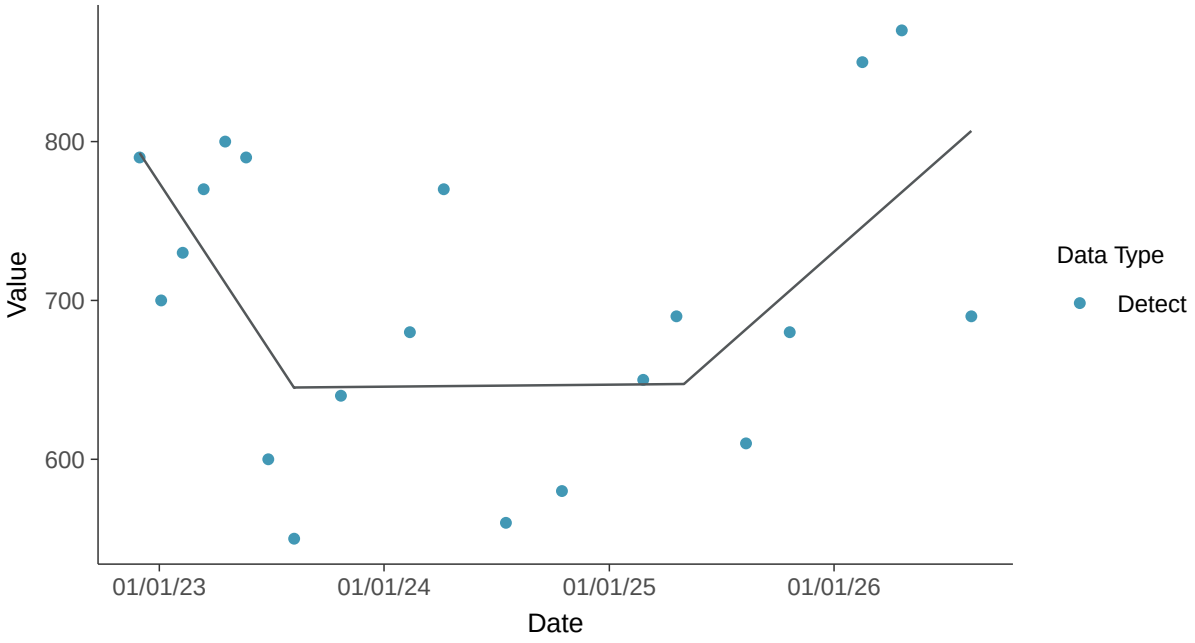
Trend Regression: Piecewise Linear-Linear

Total Dissolved Solids, MW-32 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Total Dissolved Solids, MW-32 (mg/L)

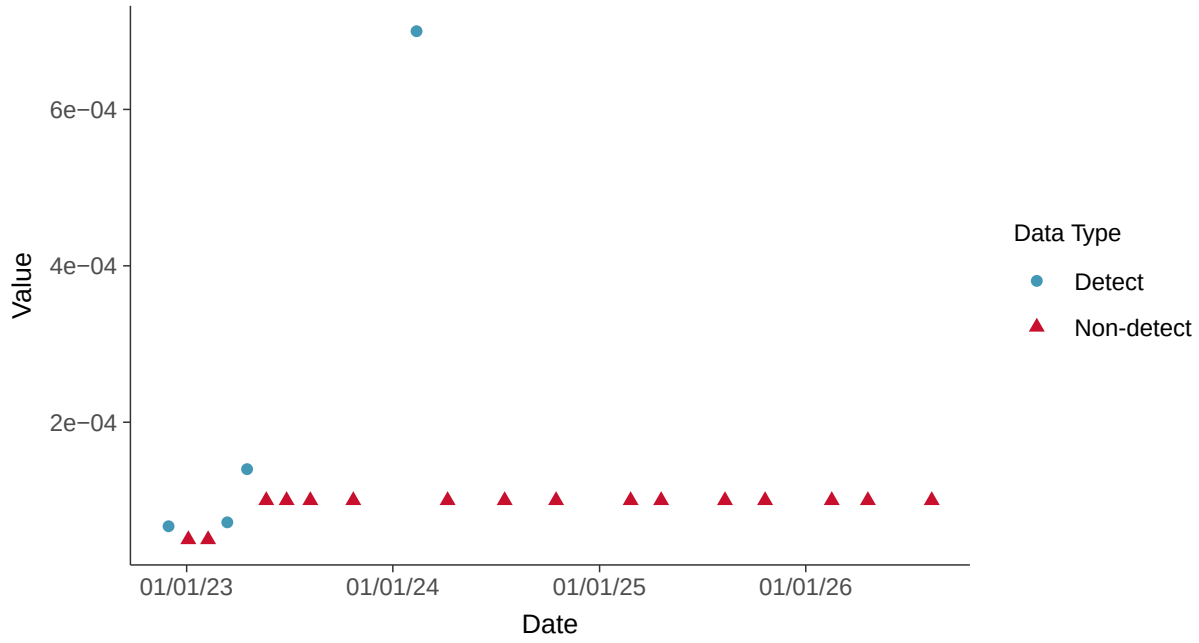


Appendix IV: Antimony, MW-32

ID: 42_1_4_101

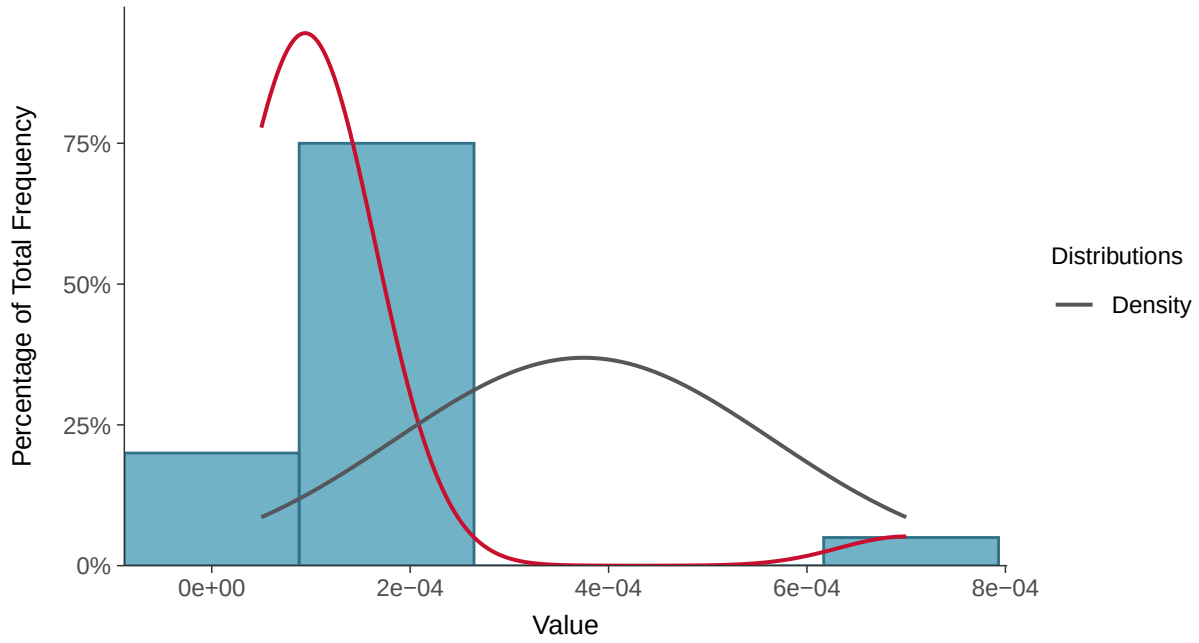
Scatter Plot

Antimony, MW-32 (mg/L)



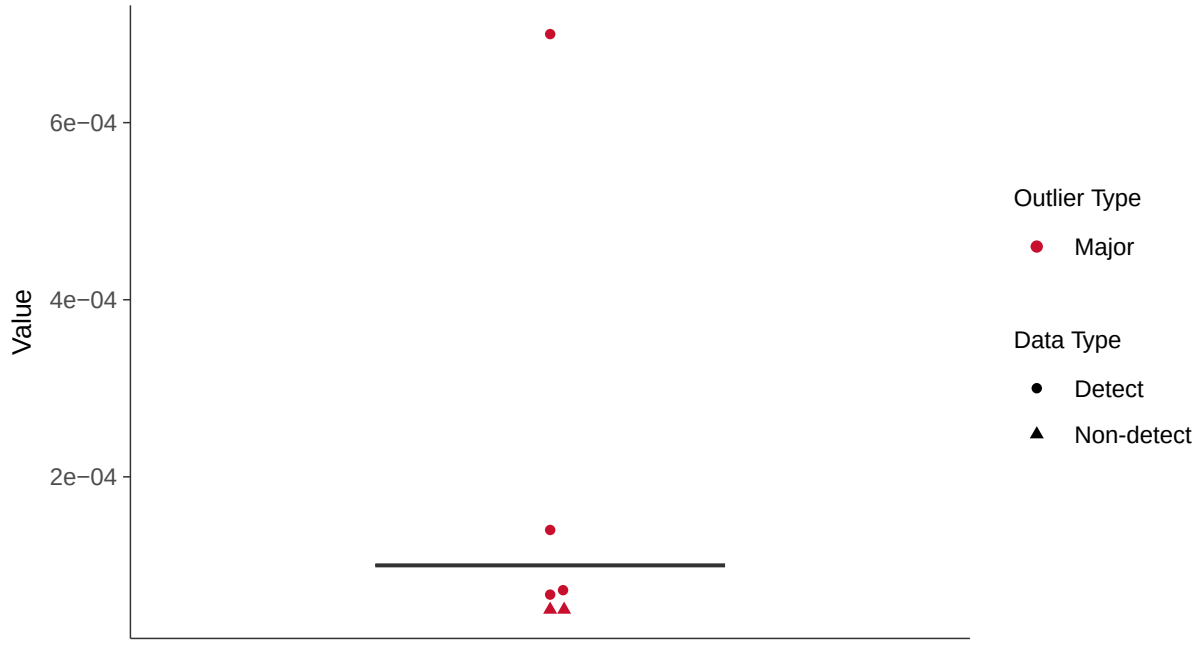
Histogram

Antimony, MW-32 (mg/L)



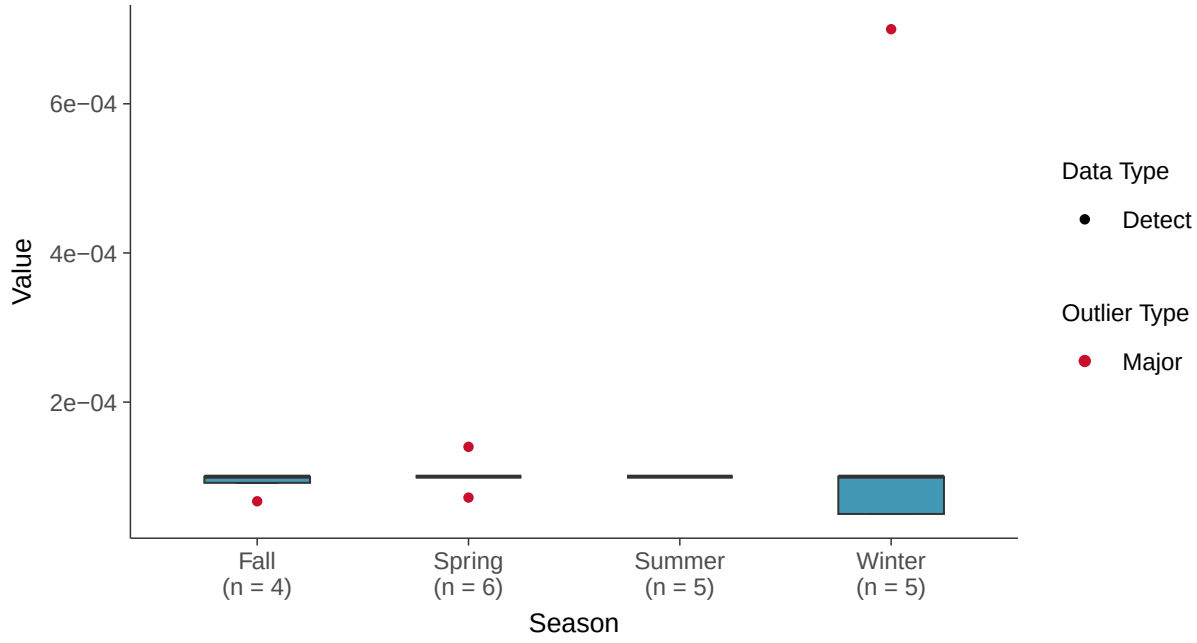
Boxplot

Antimony, MW-32 (mg/L)



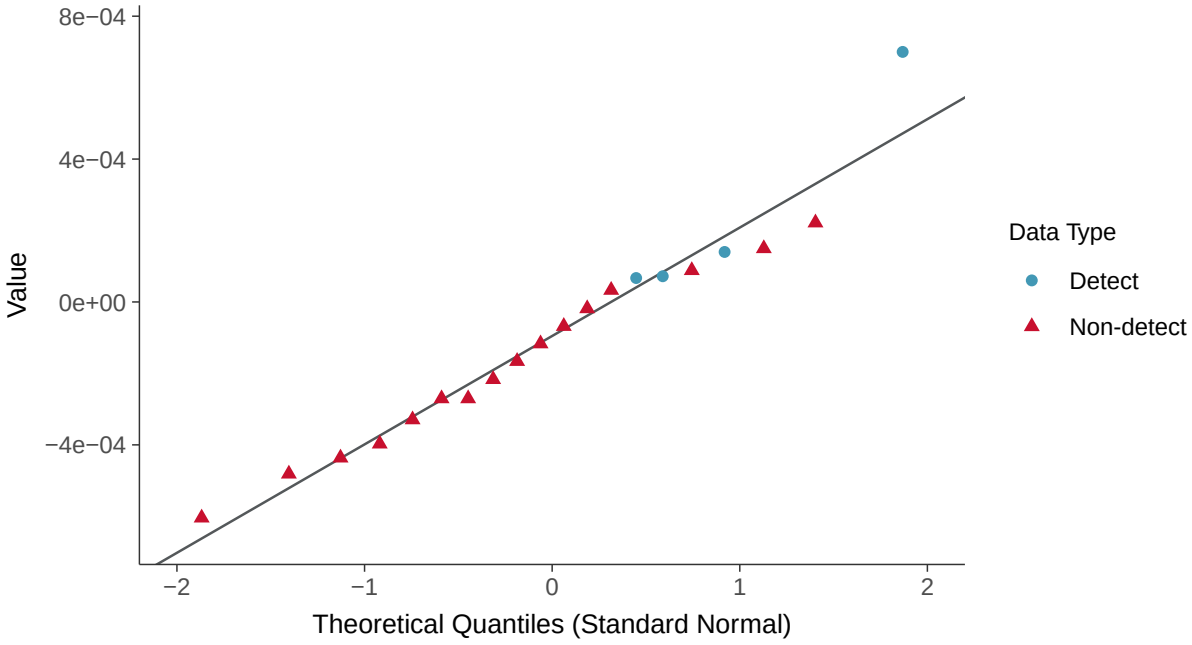
Boxplot by Season

Antimony, MW-32 (mg/L)



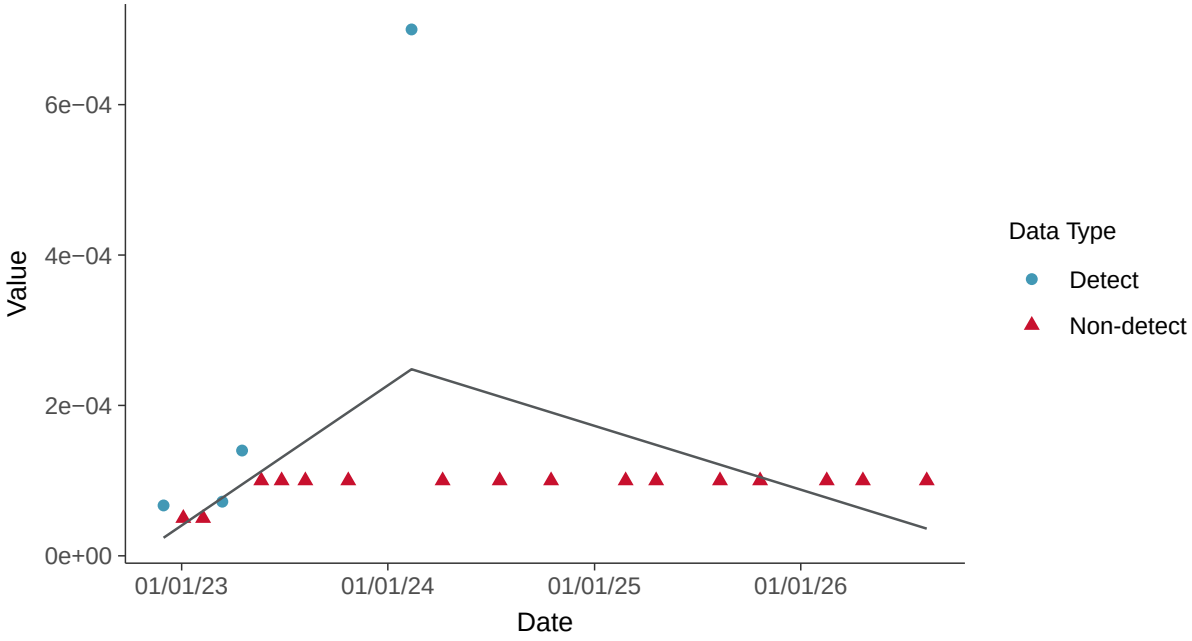
Normal Q-Q plot using ROS Imputed Estimates

Antimony, MW-32 (mg/L)



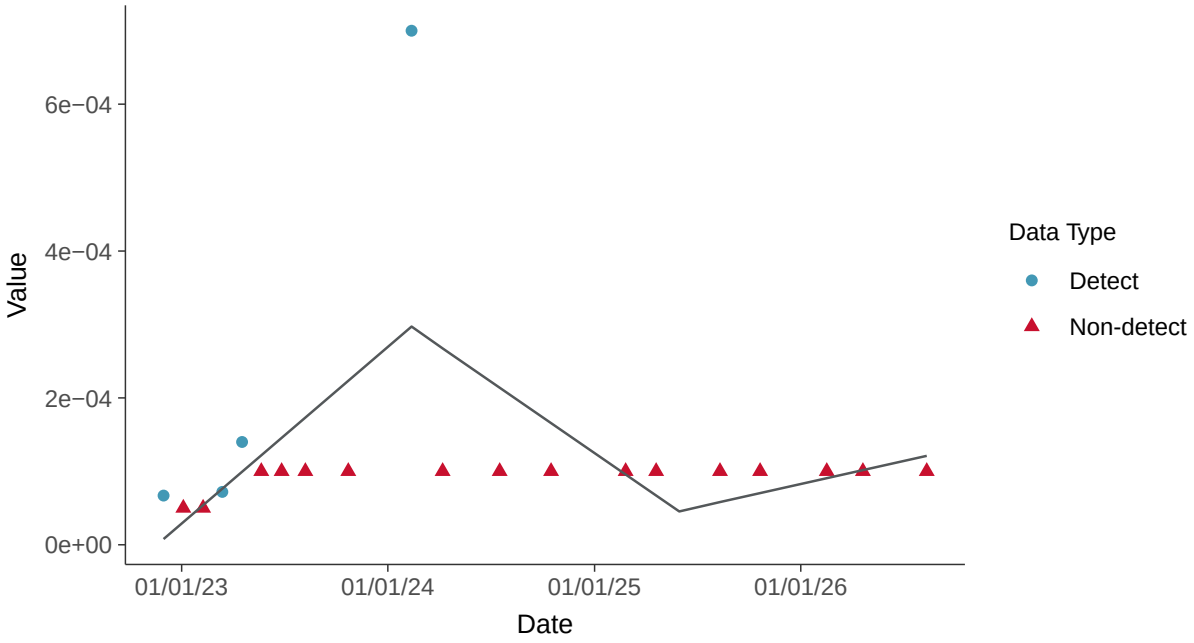
Trend Regression: Piecewise Linear-Linear

Antimony, MW-32 (mg/L)



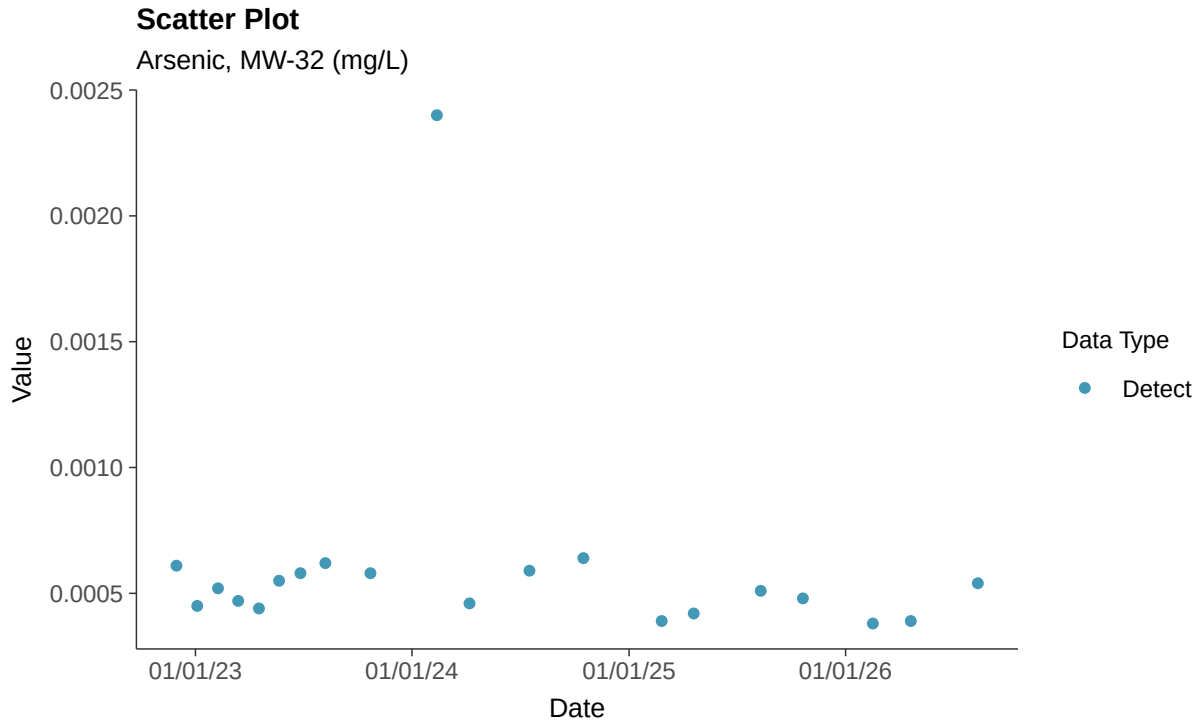
Trend Regression: Piecewise Linear-Linear-Linear

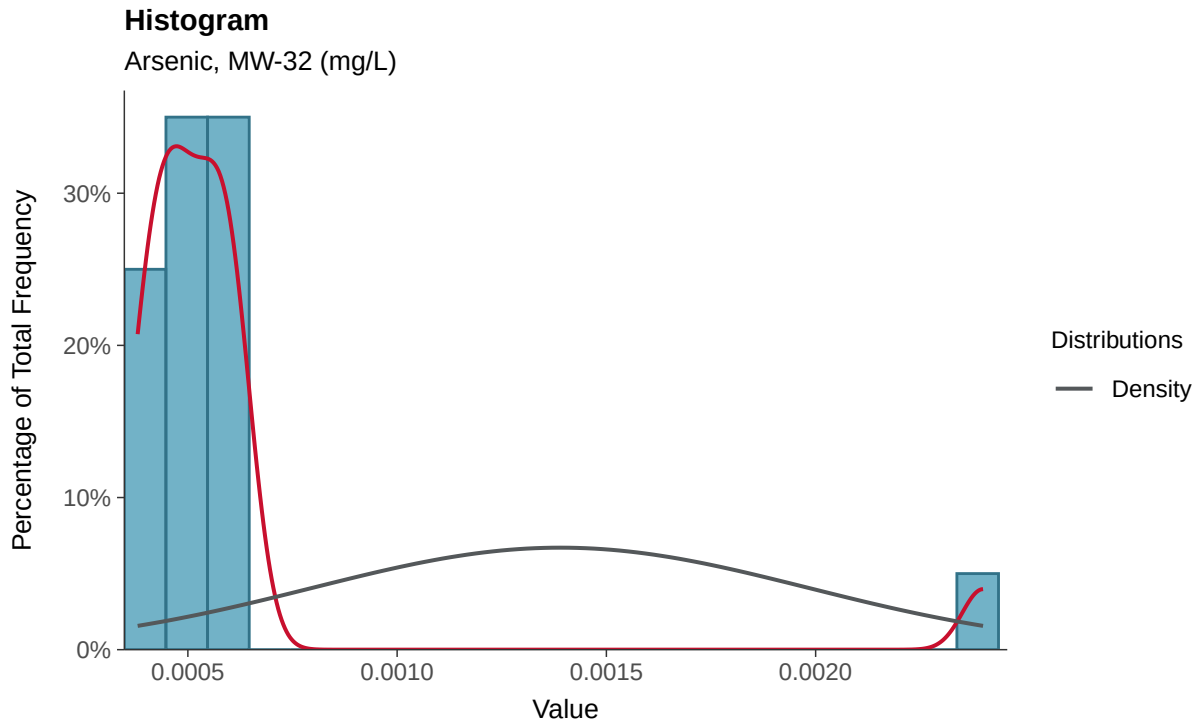
Antimony, MW-32 (mg/L)



Appendix IV: Arsenic, MW-32

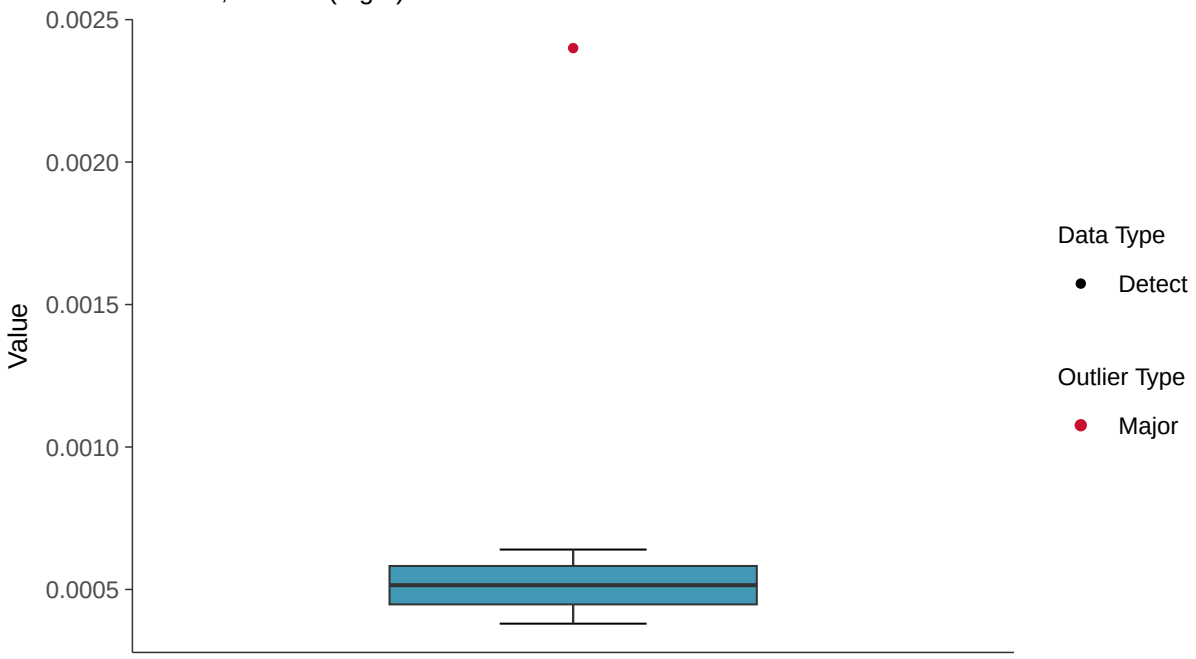
ID: 42_1_4_102





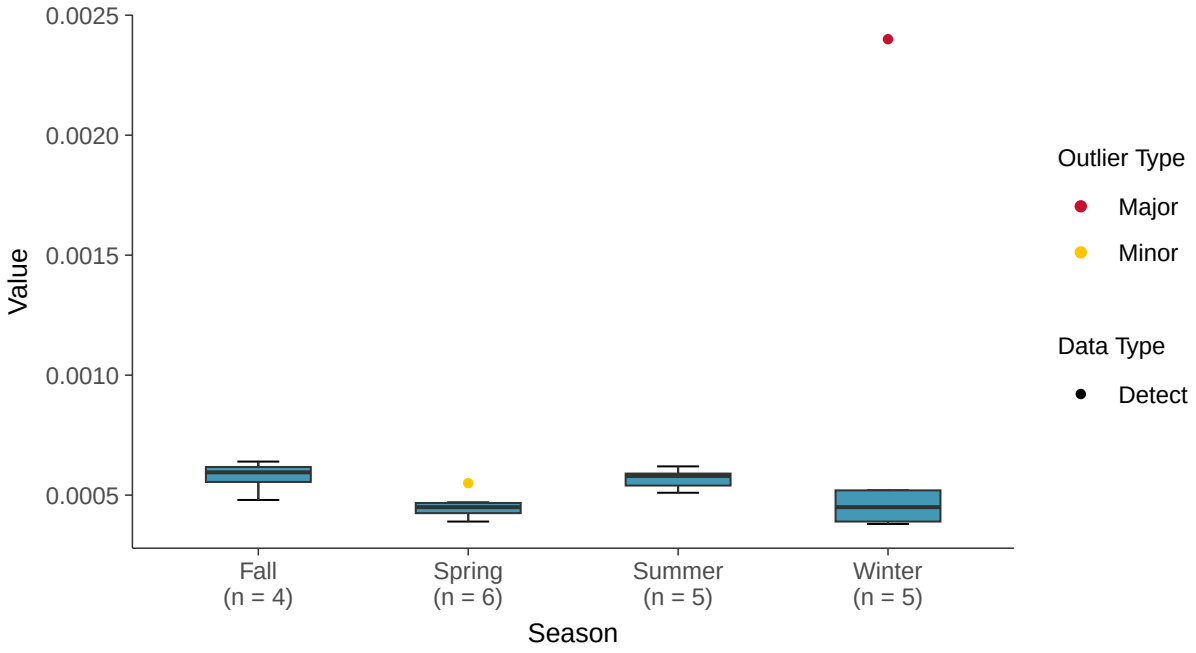
Boxplot

Arsenic, MW-32 (mg/L)



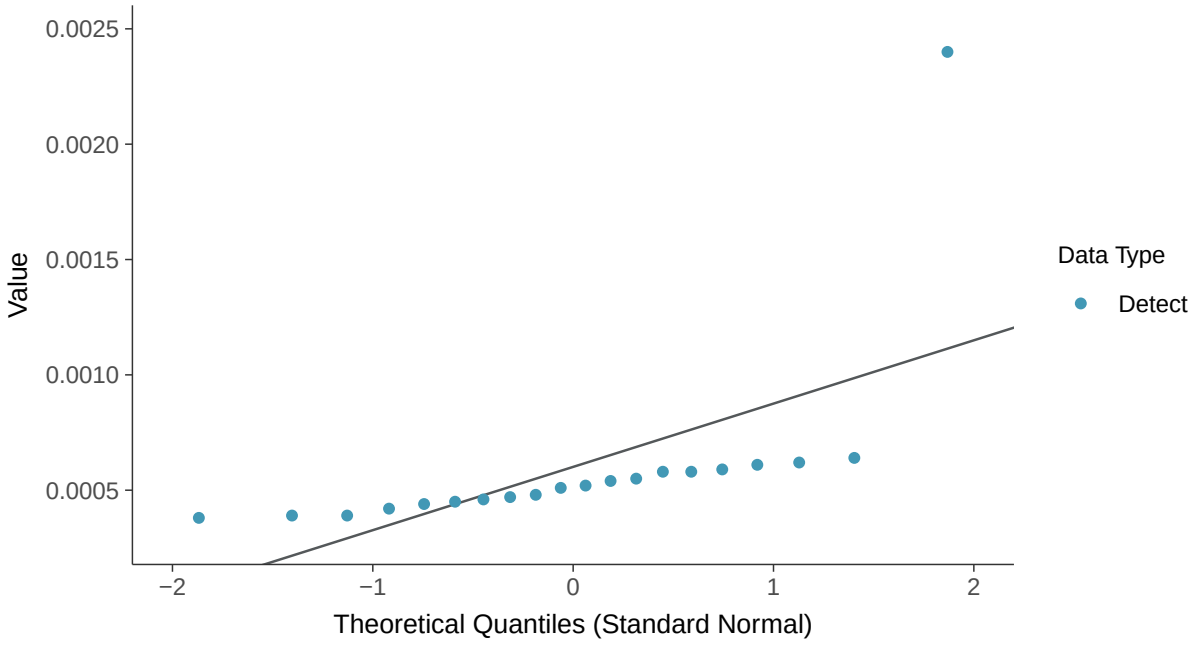
Boxplot by Season

Arsenic, MW-32 (mg/L)



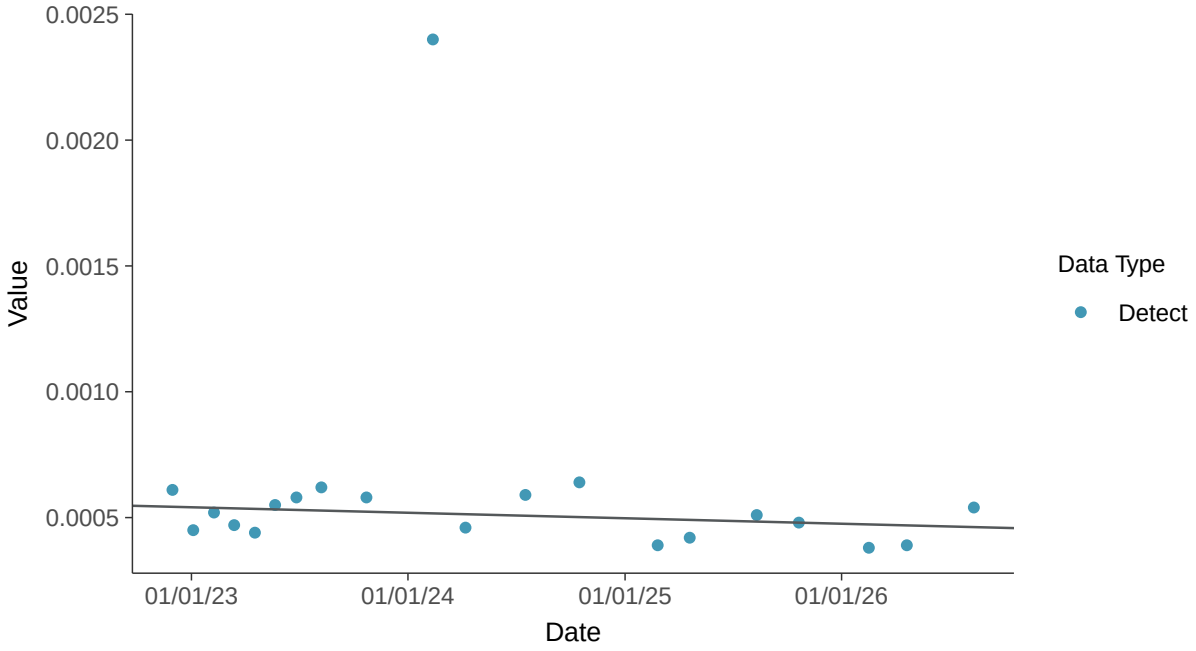
Normal Q-Q plot

Arsenic, MW-32 (mg/L)



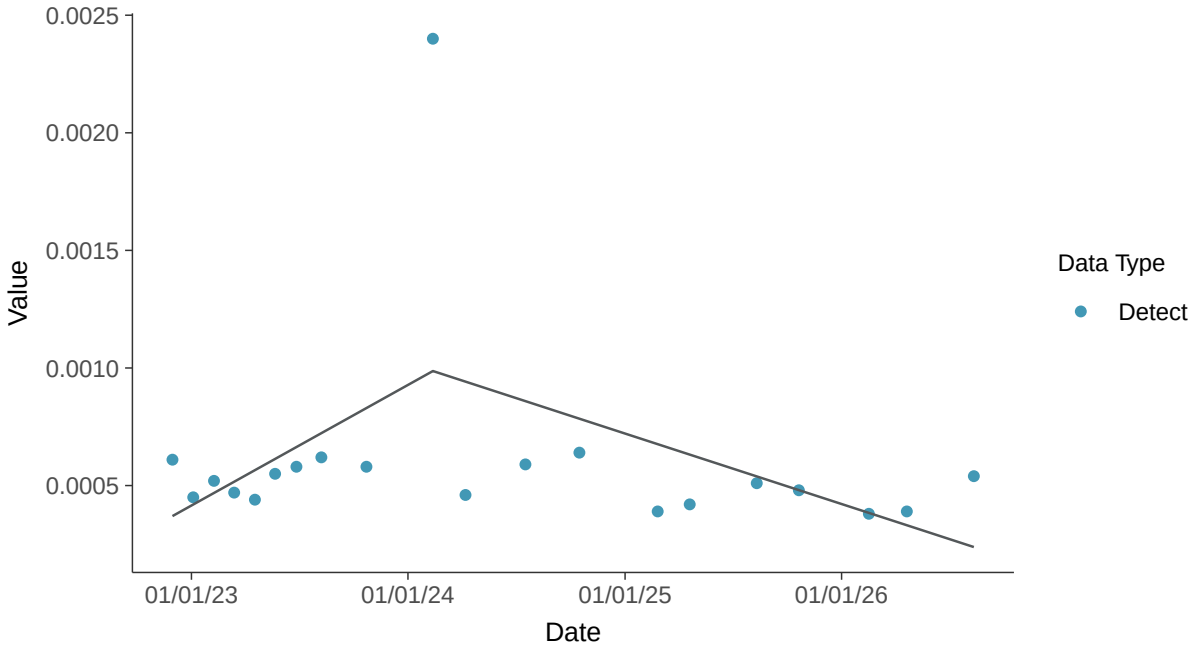
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Arsenic, MW-32 (mg/L)



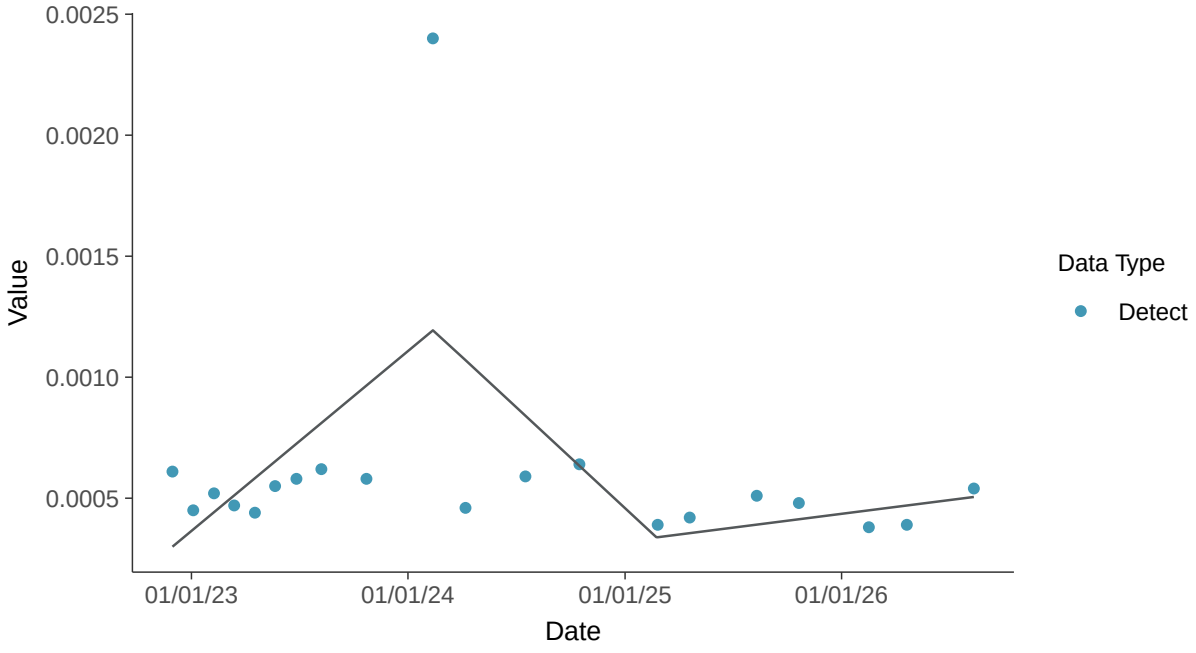
Trend Regression: Piecewise Linear-Linear

Arsenic, MW-32 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Arsenic, MW-32 (mg/L)

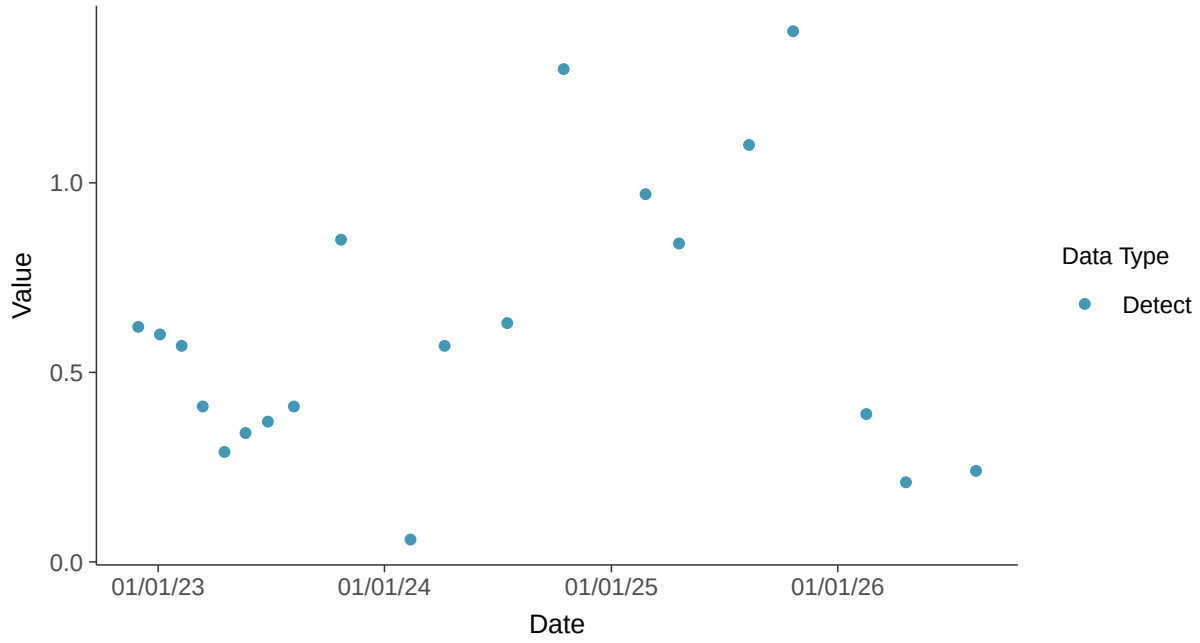


Appendix IV: Barium, MW-32

ID: 42_1_4_103

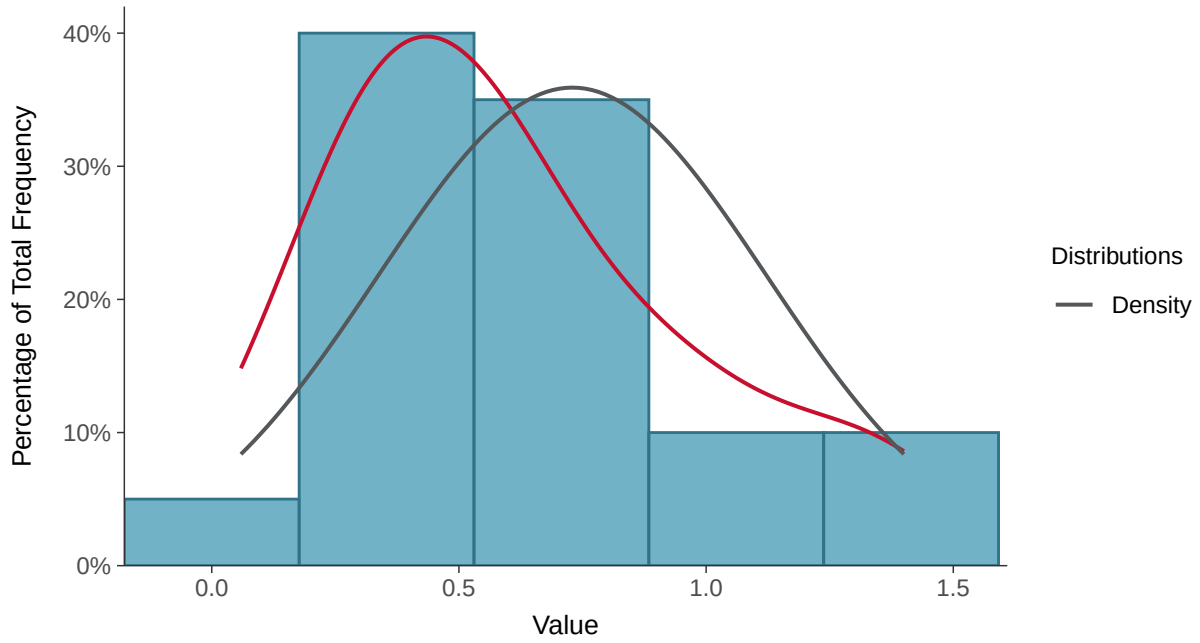
Scatter Plot

Barium, MW-32 (mg/L)



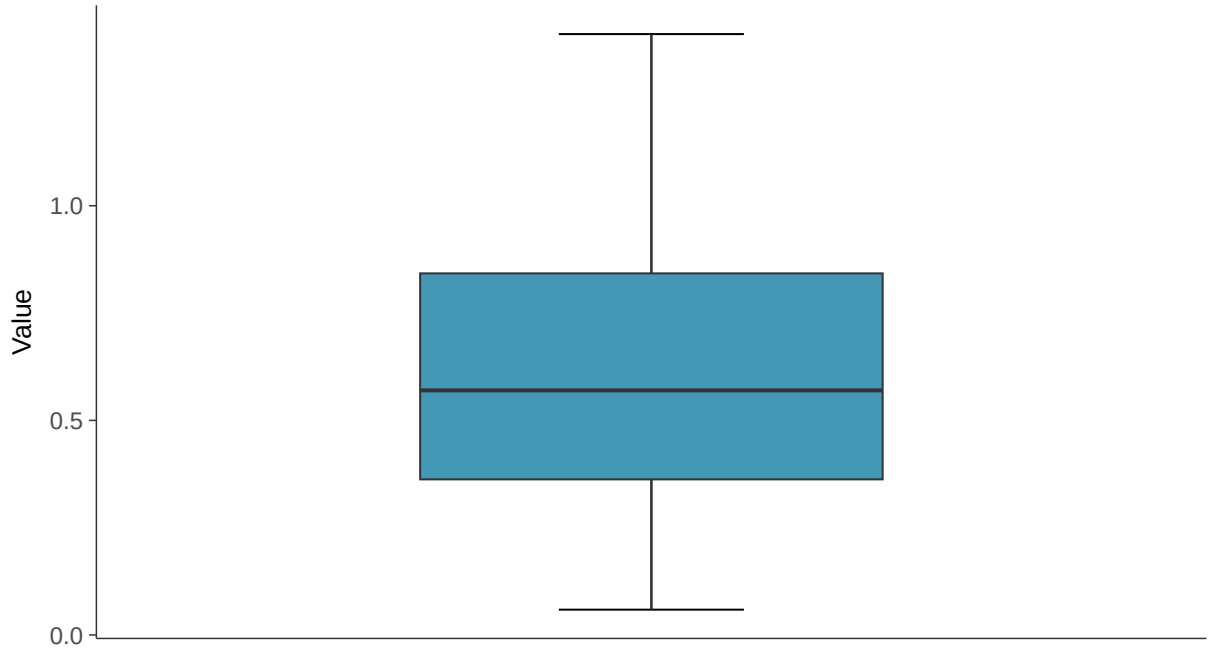
Histogram

Barium, MW-32 (mg/L)



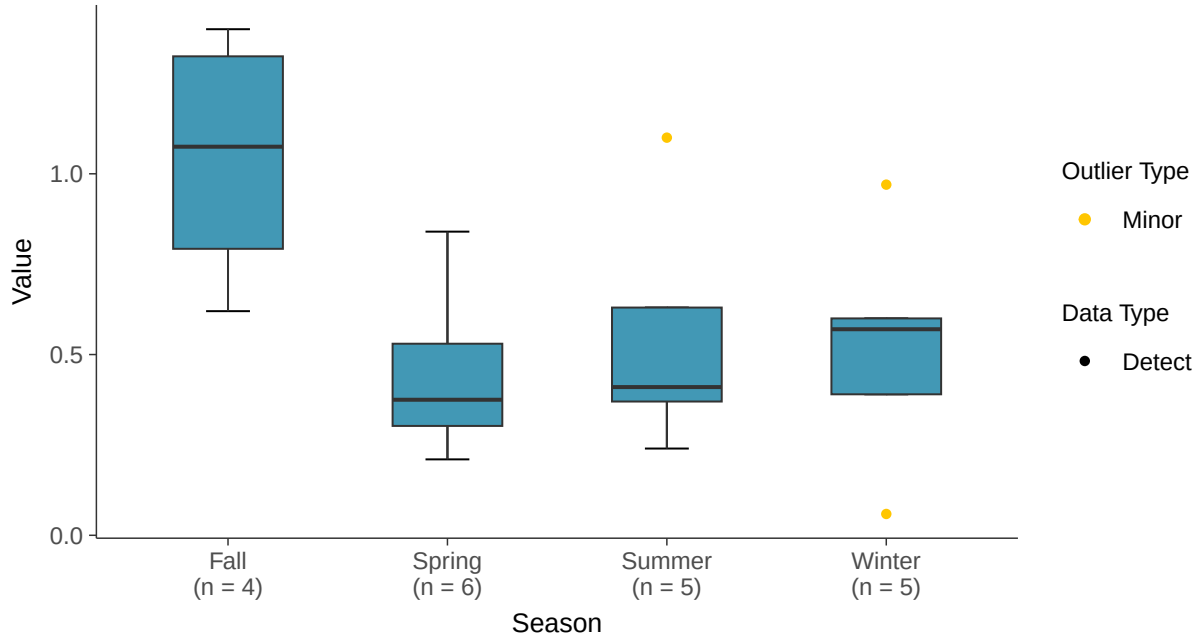
Boxplot

Barium, MW-32 (mg/L)



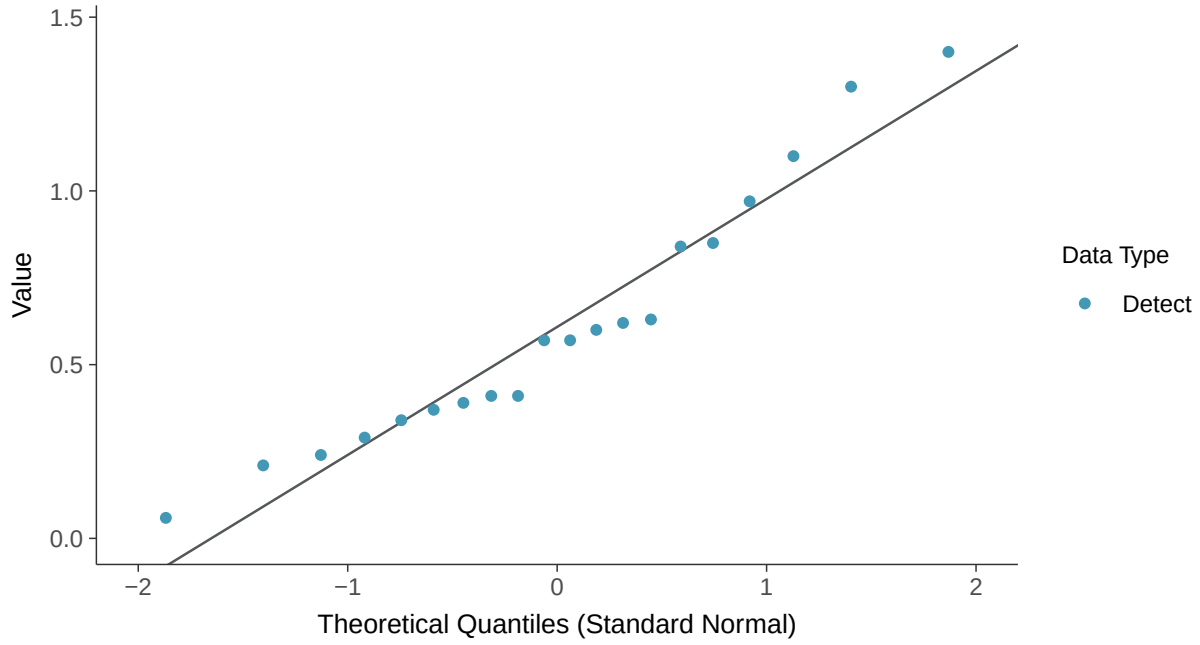
Boxplot by Season

Barium, MW-32 (mg/L)



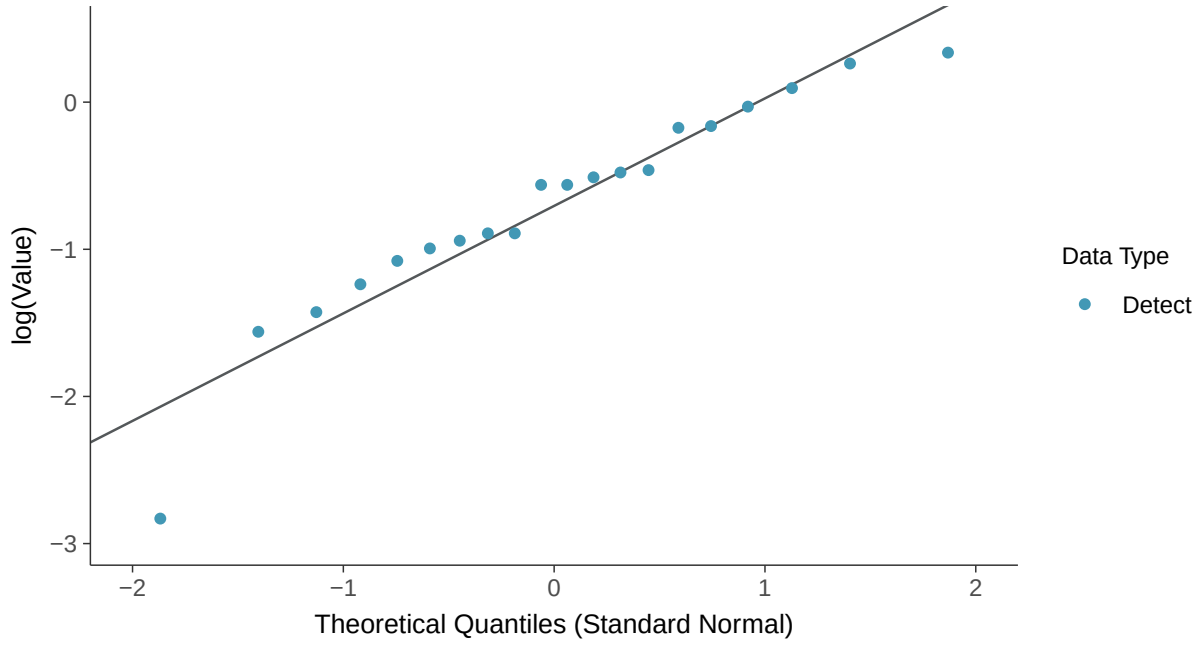
Normal Q-Q plot

Barium, MW-32 (mg/L)



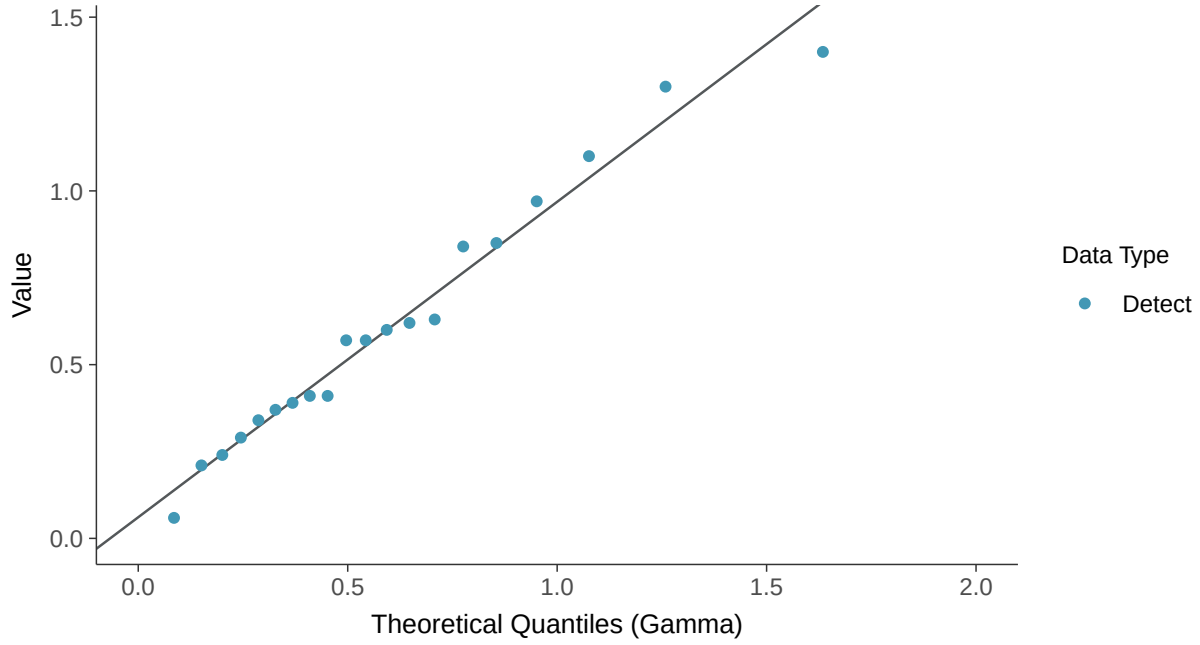
Lognormal Q-Q plot

Barium, MW-32 (mg/L)



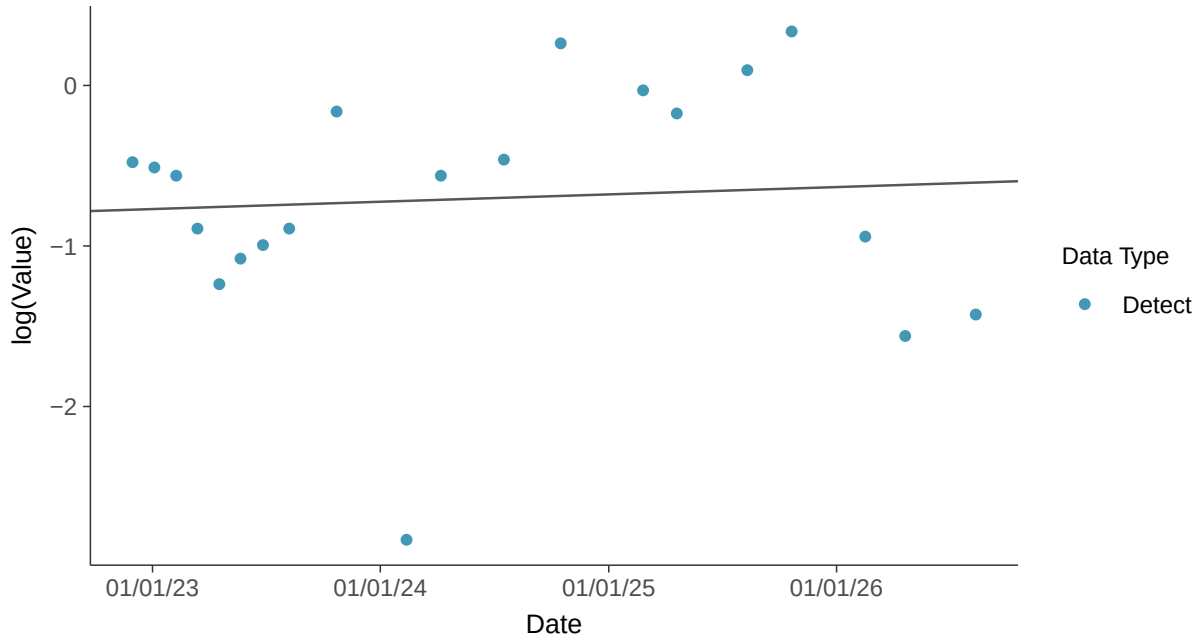
Gamma Q-Q plot

Barium, MW-32 (mg/L)



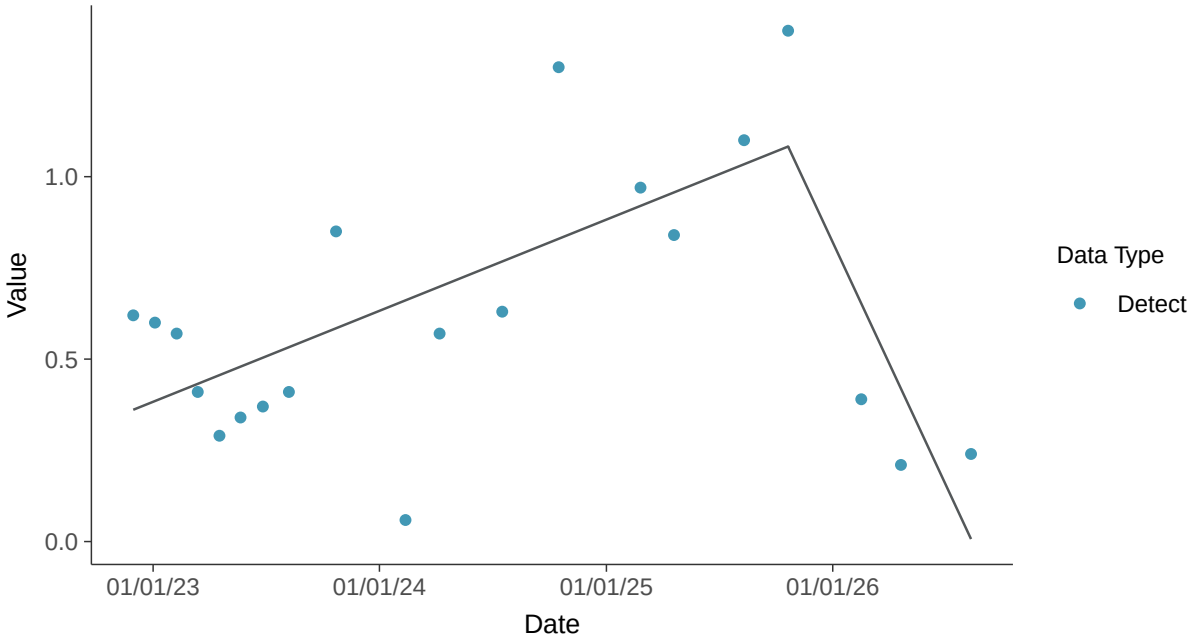
Trend Regression: Lognormal MLE

Barium, MW-32 (mg/L)



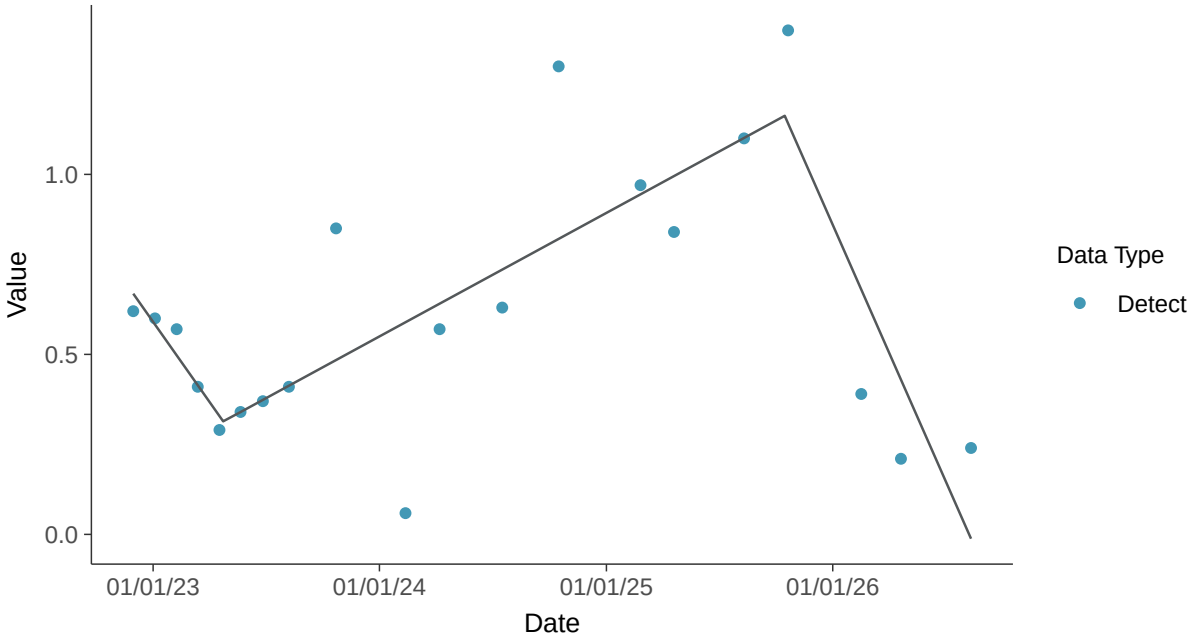
Trend Regression: Piecewise Linear-Linear

Barium, MW-32 (mg/L)



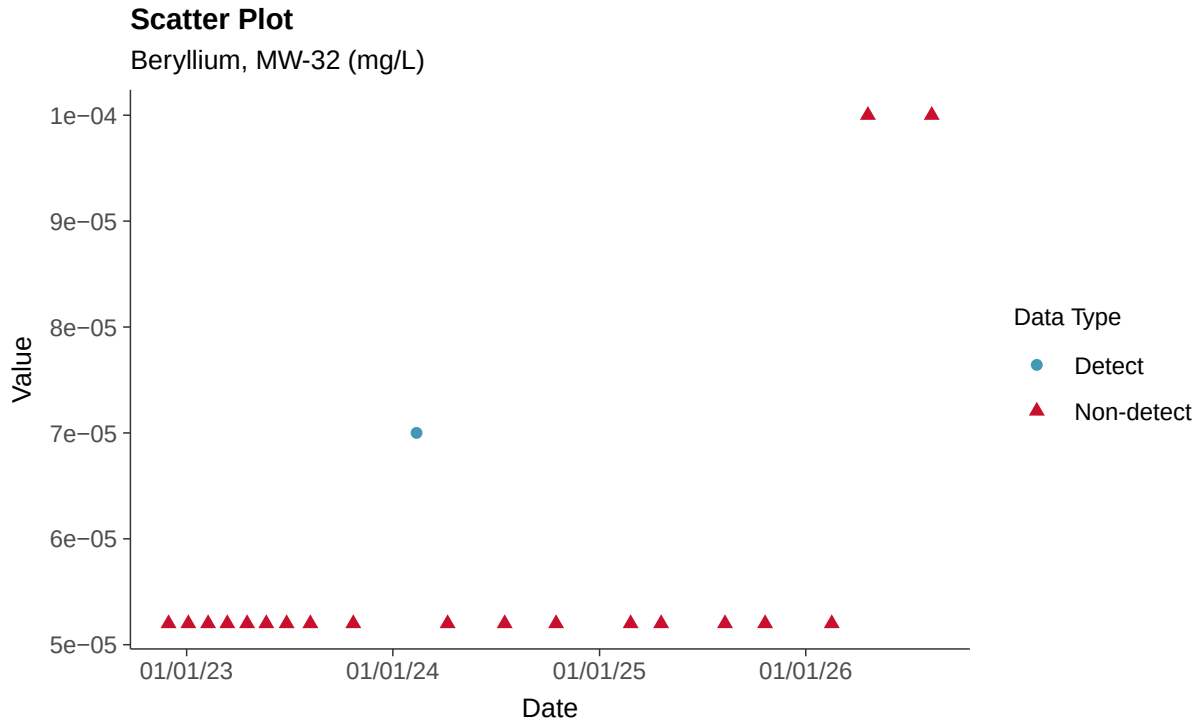
Trend Regression: Piecewise Linear-Linear-Linear

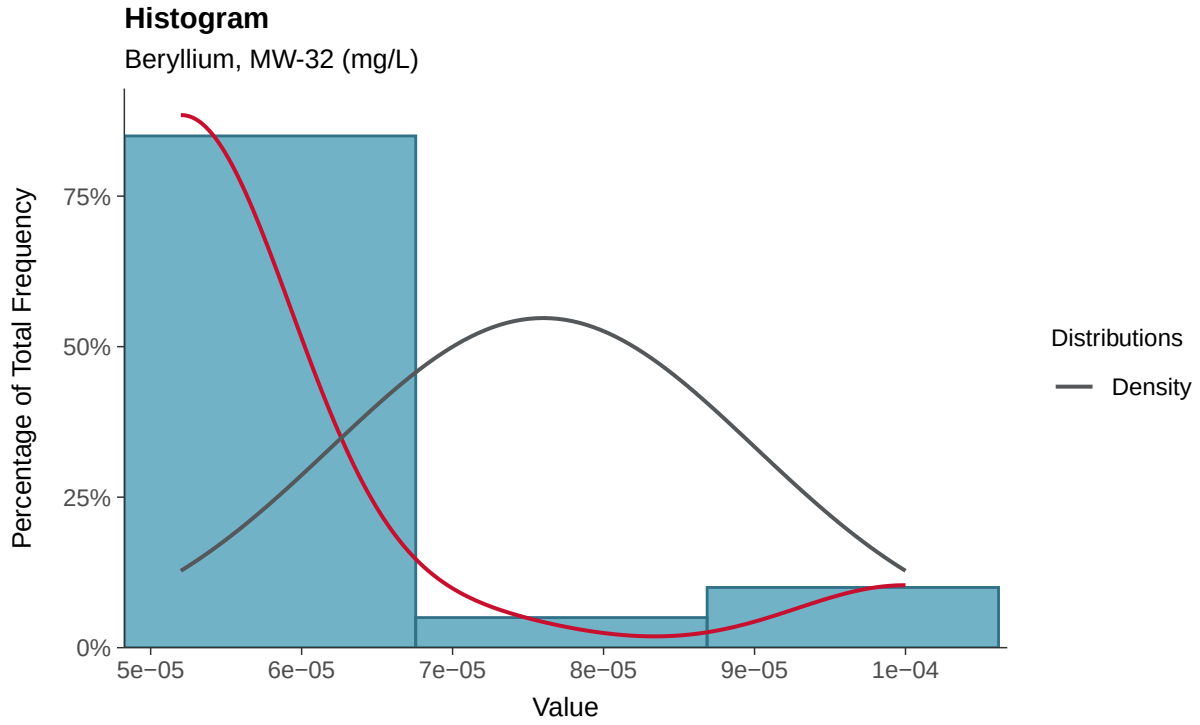
Barium, MW-32 (mg/L)



Appendix IV: Beryllium, MW-32

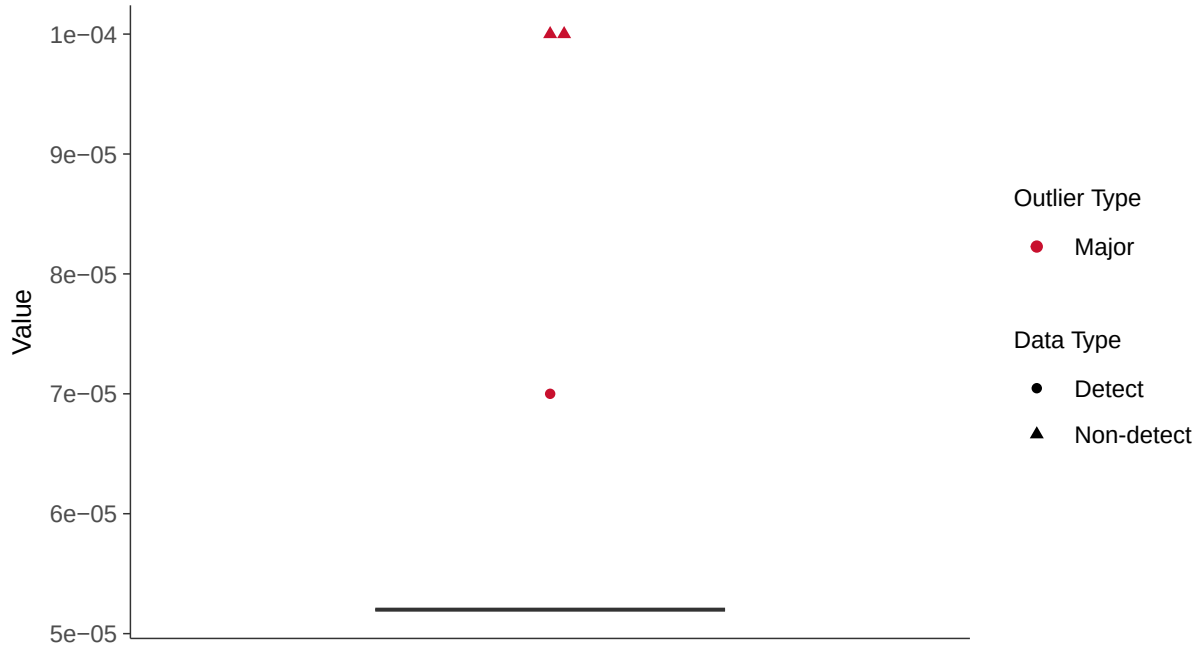
ID: 42_1_4_104





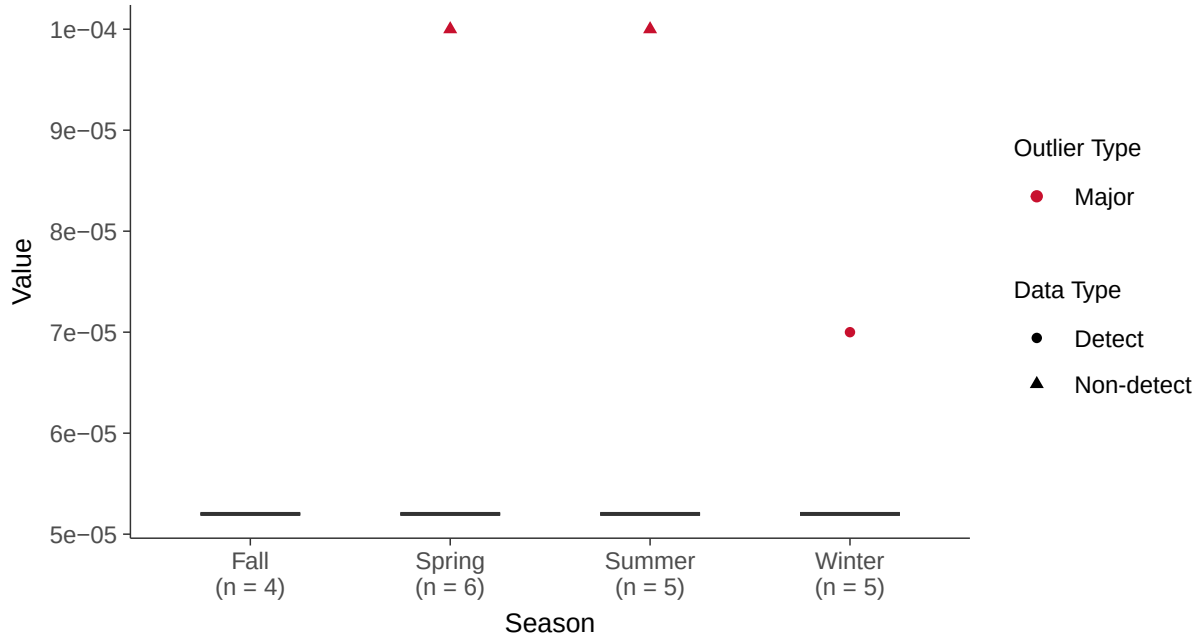
Boxplot

Beryllium, MW-32 (mg/L)



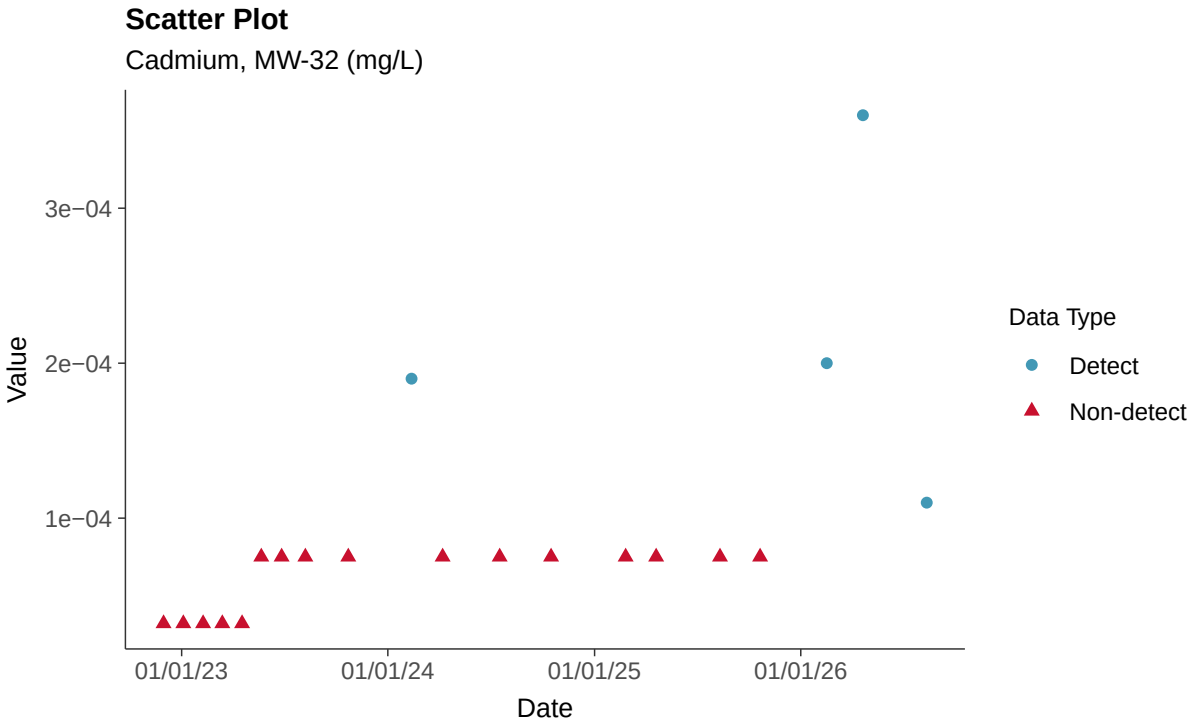
Boxplot by Season

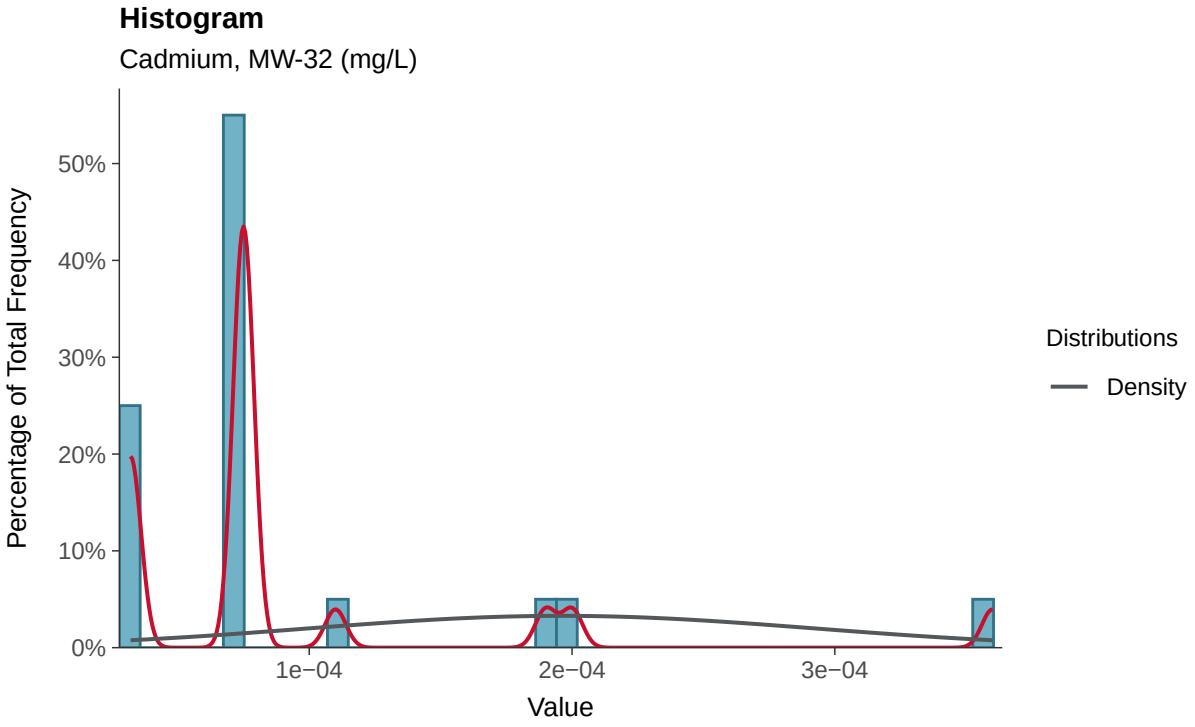
Beryllium, MW-32 (mg/L)



Appendix IV: Cadmium, MW-32

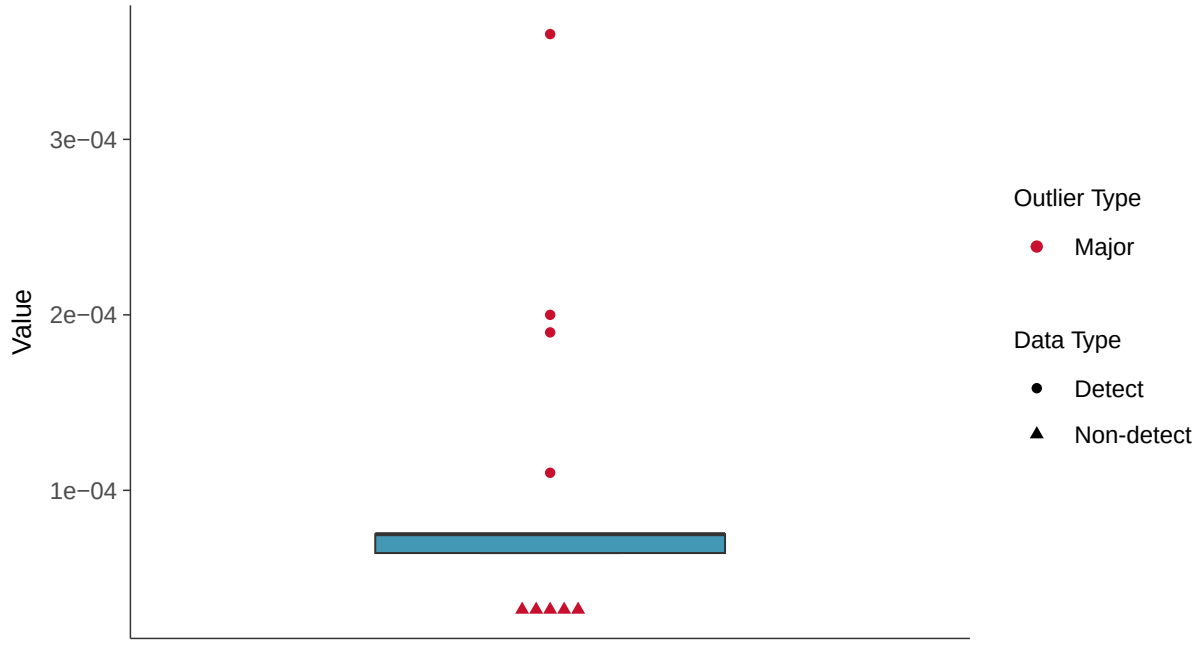
ID: 42_1_4_106





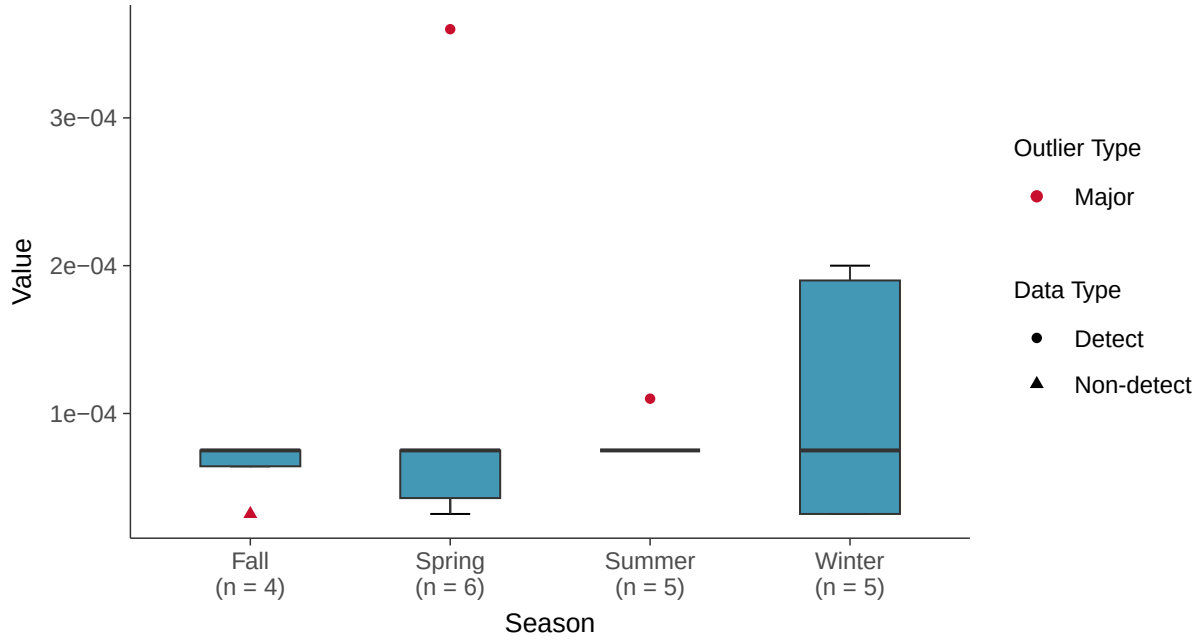
Boxplot

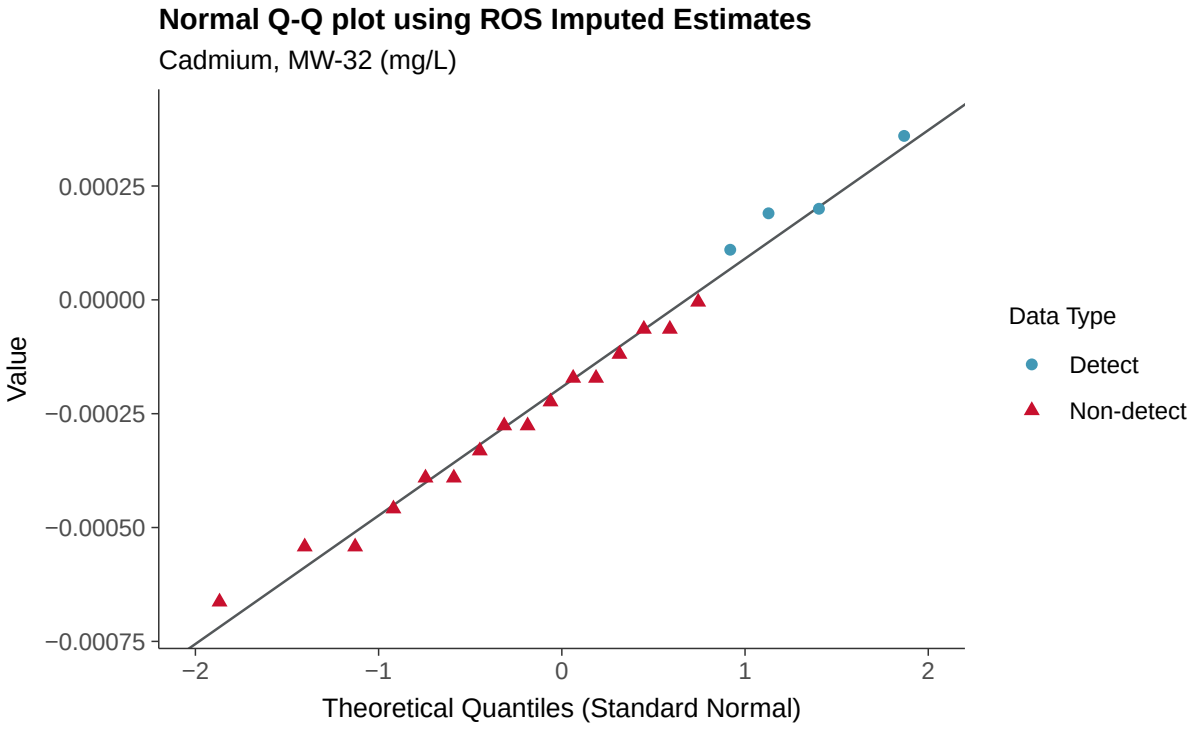
Cadmium, MW-32 (mg/L)



Boxplot by Season

Cadmium, MW-32 (mg/L)



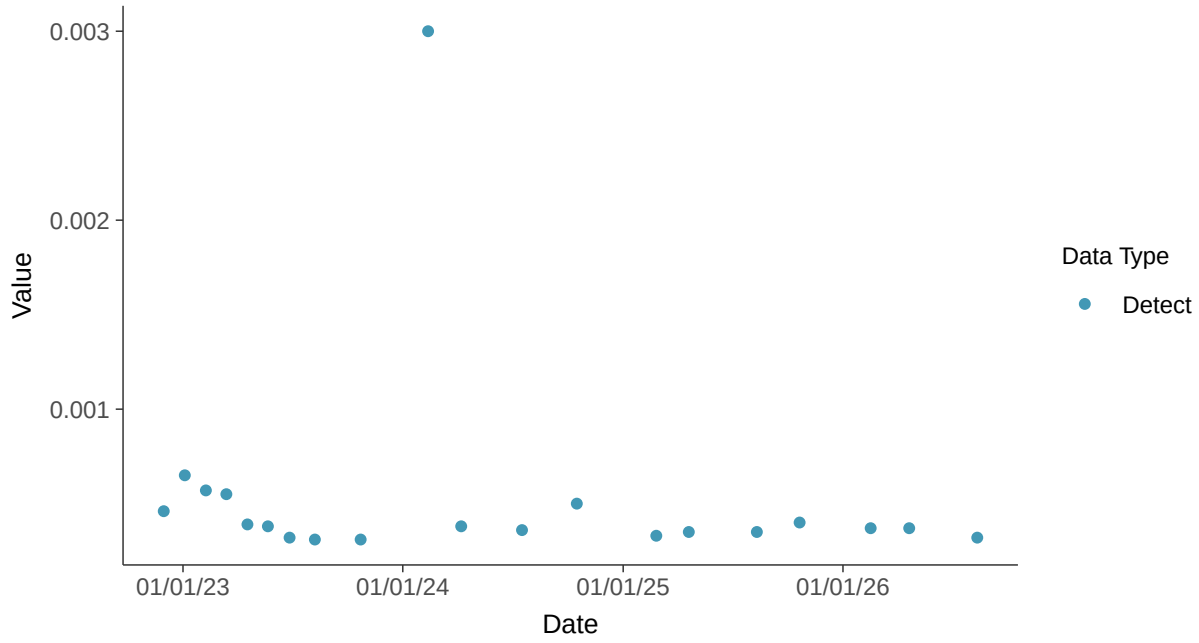

Normal Q-Q plot using ROS Imputed Estimates
Cadmium, MW-32 (mg/L)
Value
0.00025
0.00000
−0.00025
−0.00050
−0.00075
−2
−1
0
1
2
Theoretical Quantiles (Standard Normal)
Data Type
Detect
Non-detect

Appendix IV: Chromium, Total, MW-32

ID: 42_1_4_109

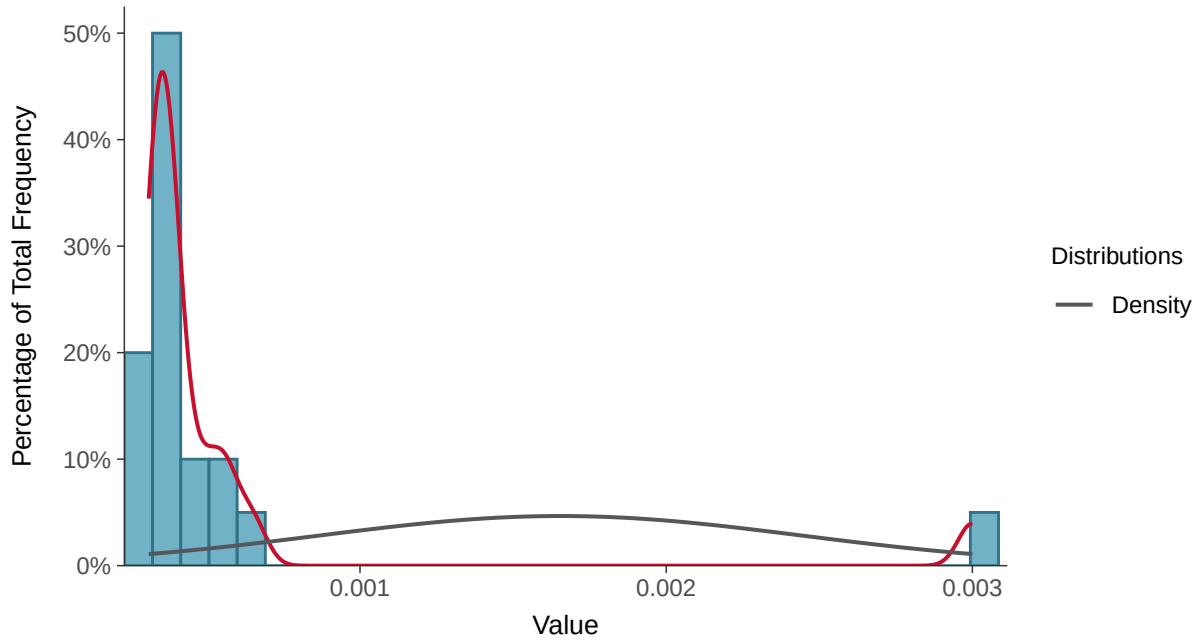
Scatter Plot

Chromium, Total, MW-32 (mg/L)



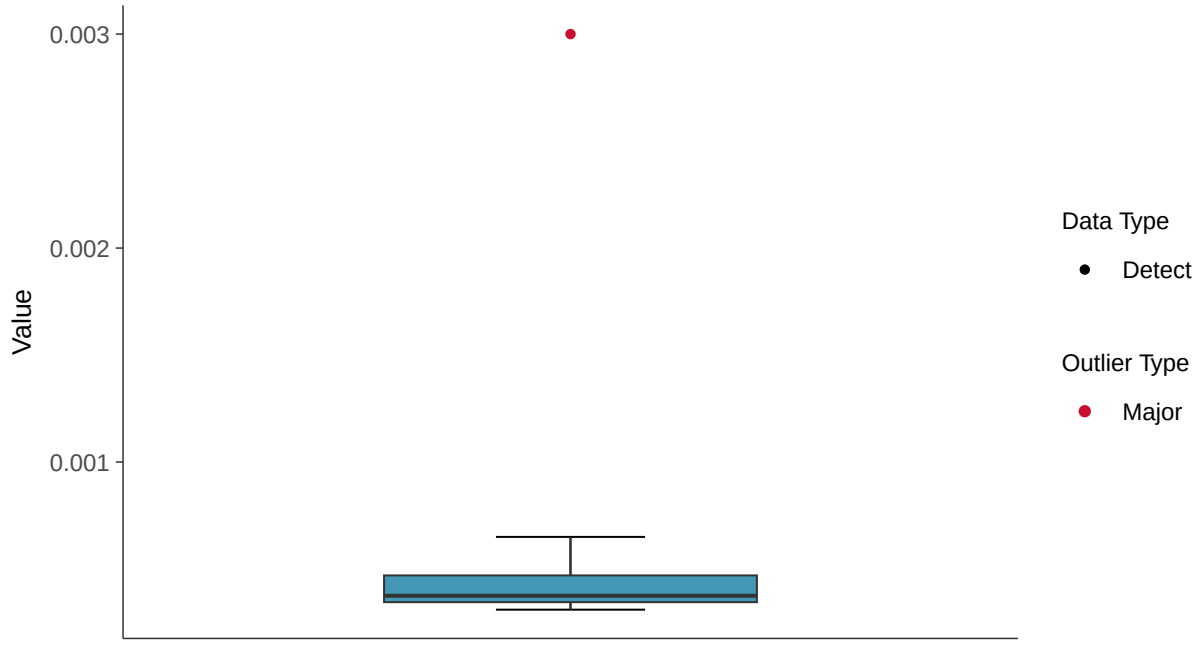
Histogram

Chromium, Total, MW-32 (mg/L)



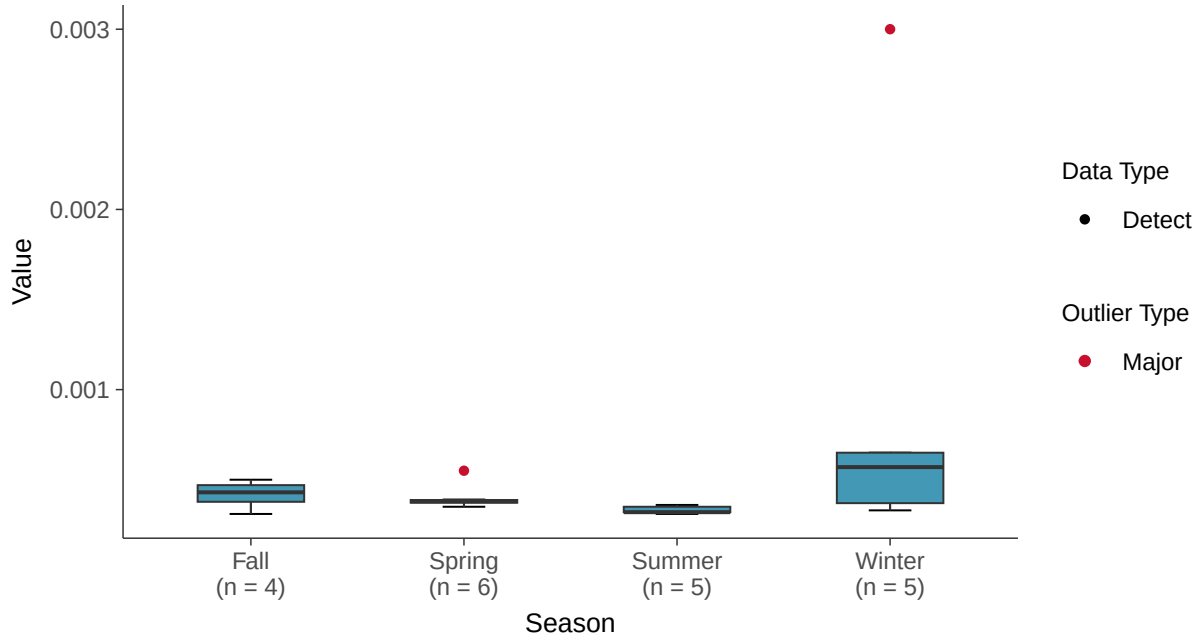
Boxplot

Chromium, Total, MW-32 (mg/L)



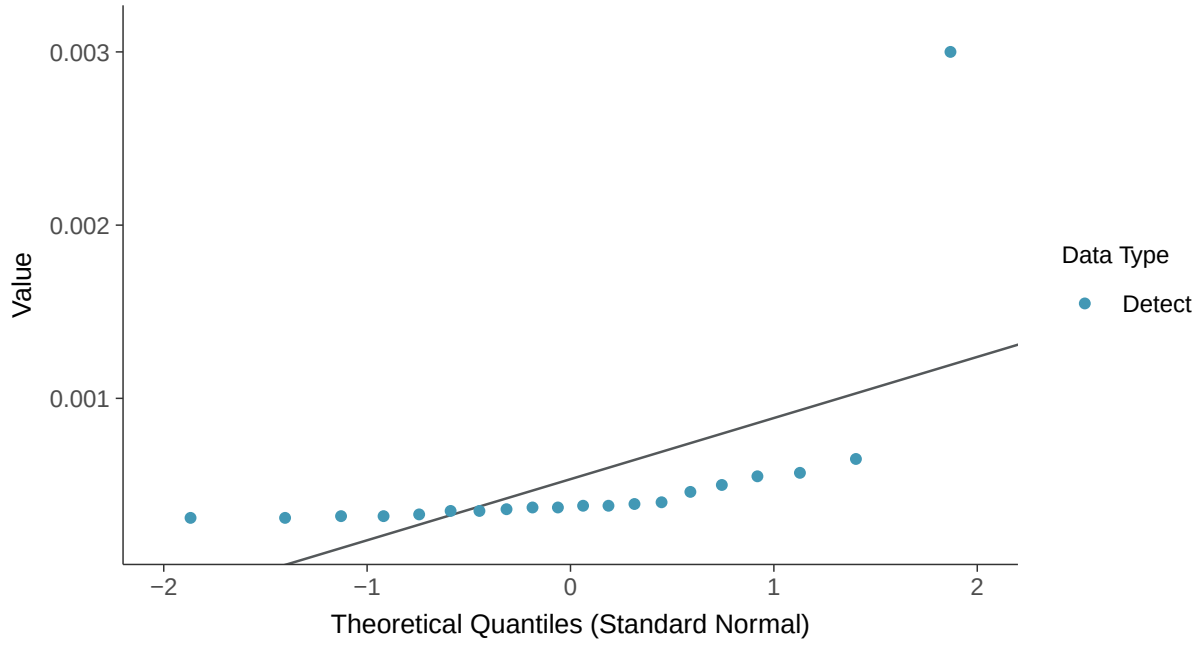
Boxplot by Season

Chromium, Total, MW-32 (mg/L)



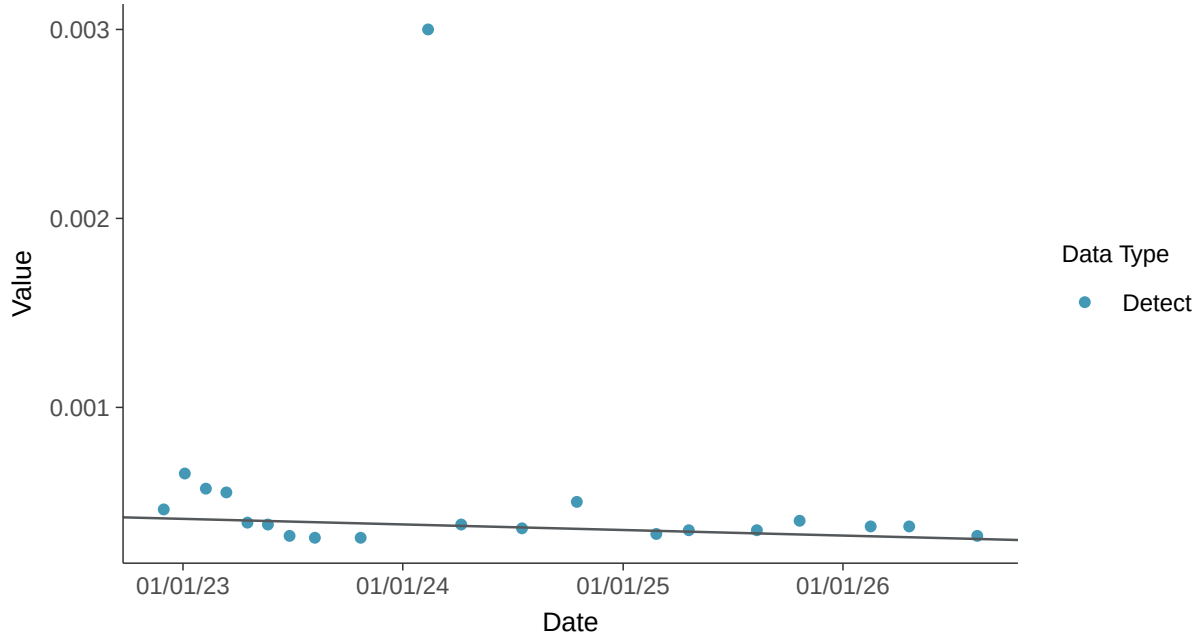
Normal Q-Q plot

Chromium, Total, MW-32 (mg/L)



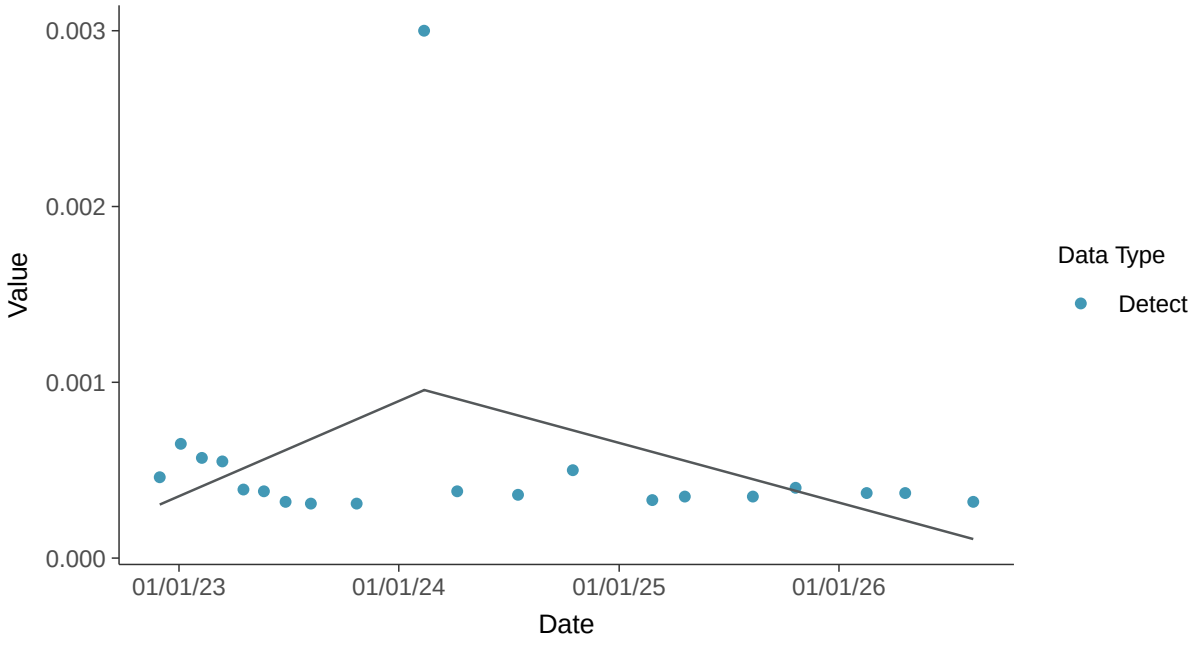
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Chromium, Total, MW-32 (mg/L)



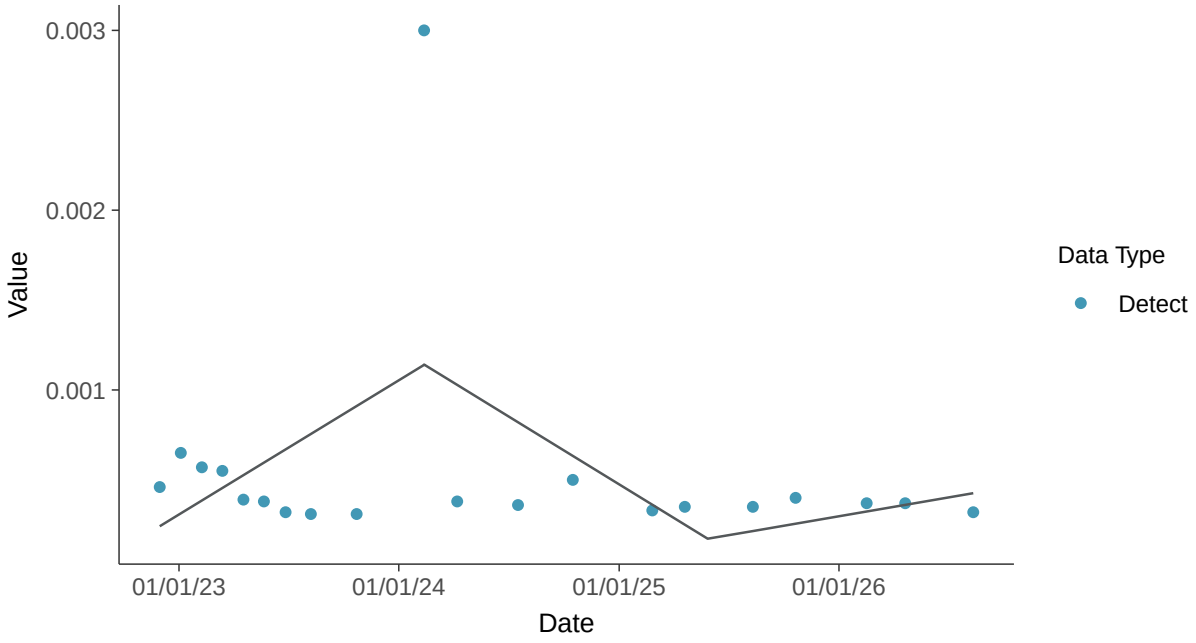
Trend Regression: Piecewise Linear-Linear

Chromium, Total, MW-32 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Chromium, Total, MW-32 (mg/L)

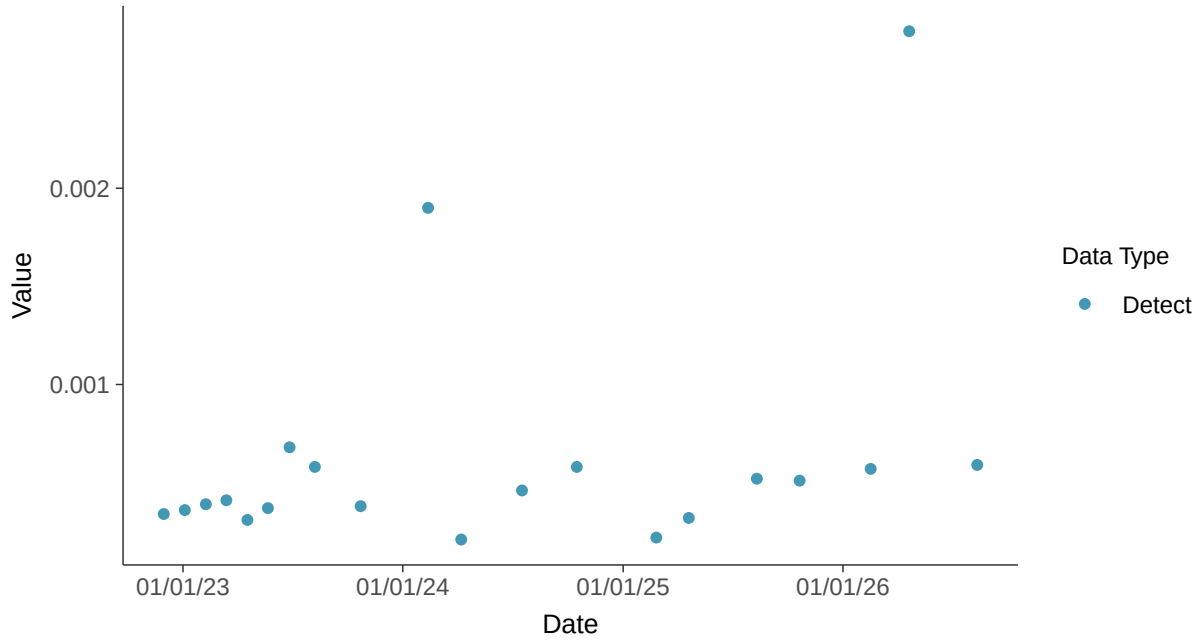


Appendix IV: Cobalt, MW-32

ID: 42_1_4_110

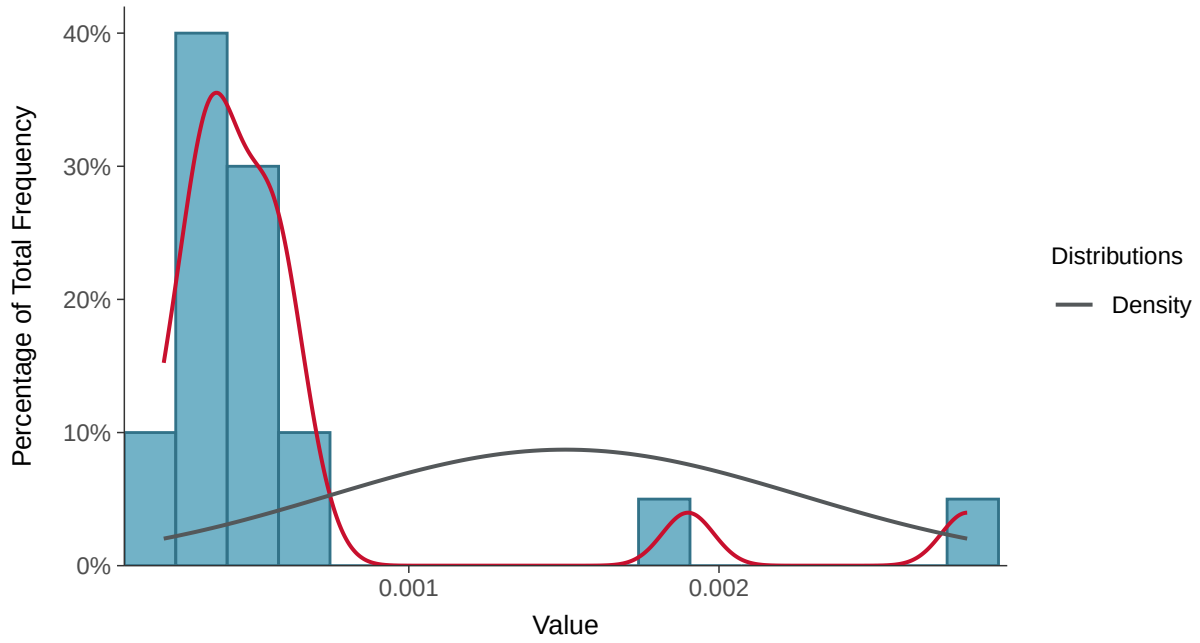
Scatter Plot

Cobalt, MW-32 (mg/L)



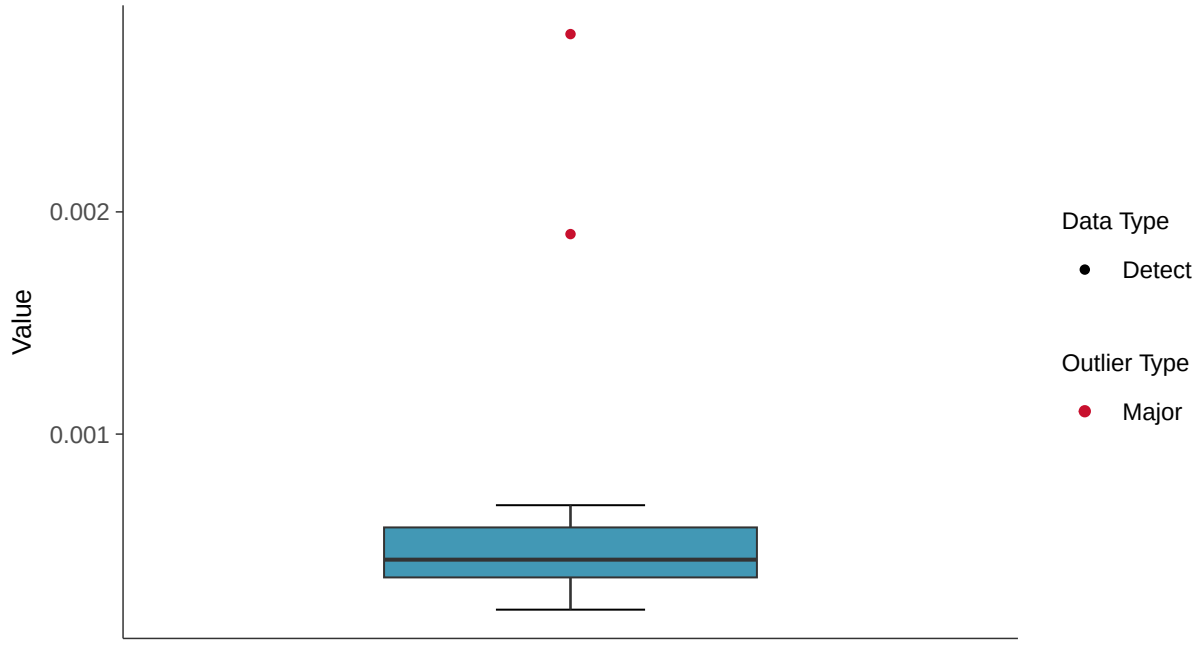
Histogram

Cobalt, MW-32 (mg/L)



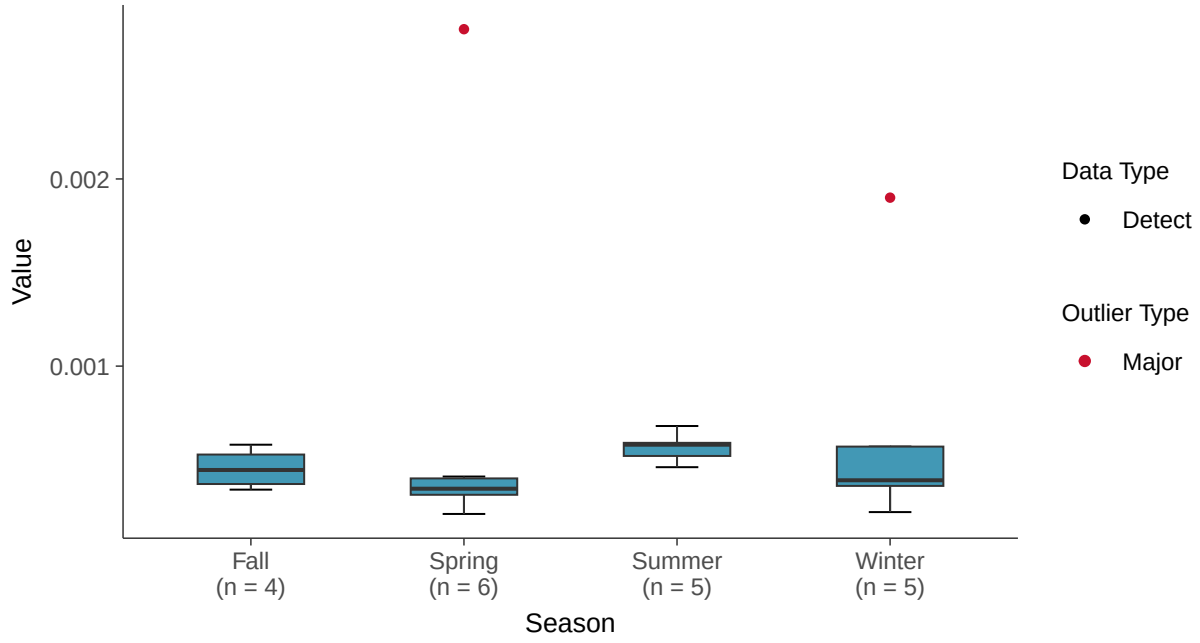
Boxplot

Cobalt, MW-32 (mg/L)



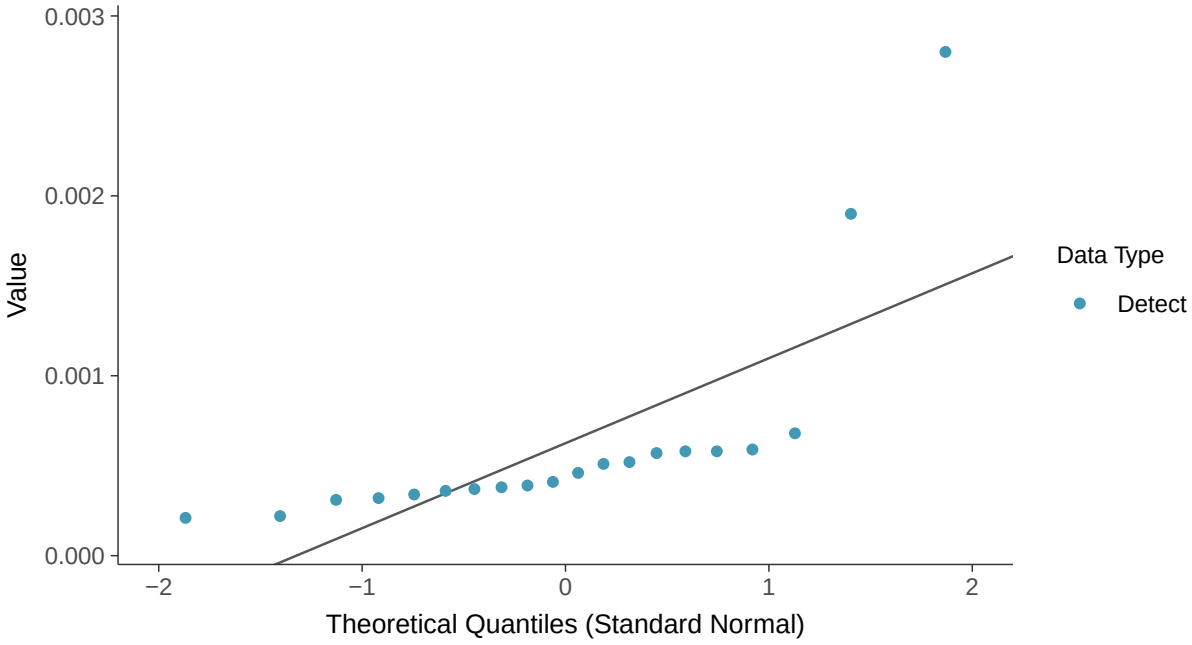
Boxplot by Season

Cobalt, MW-32 (mg/L)



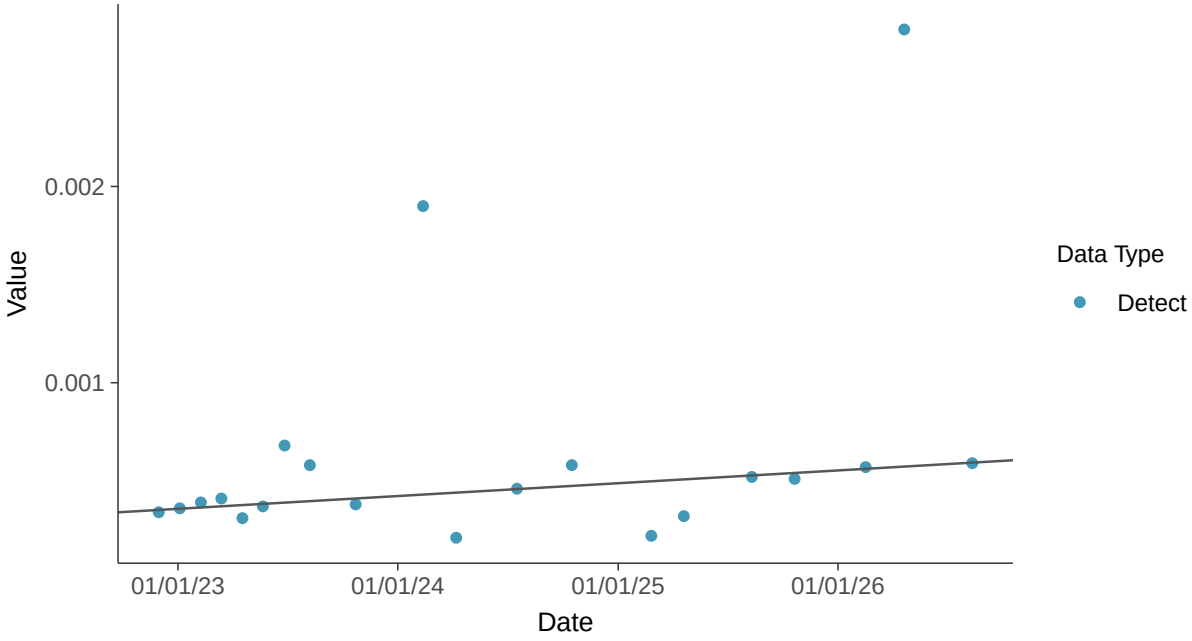
Normal Q-Q plot

Cobalt, MW-32 (mg/L)



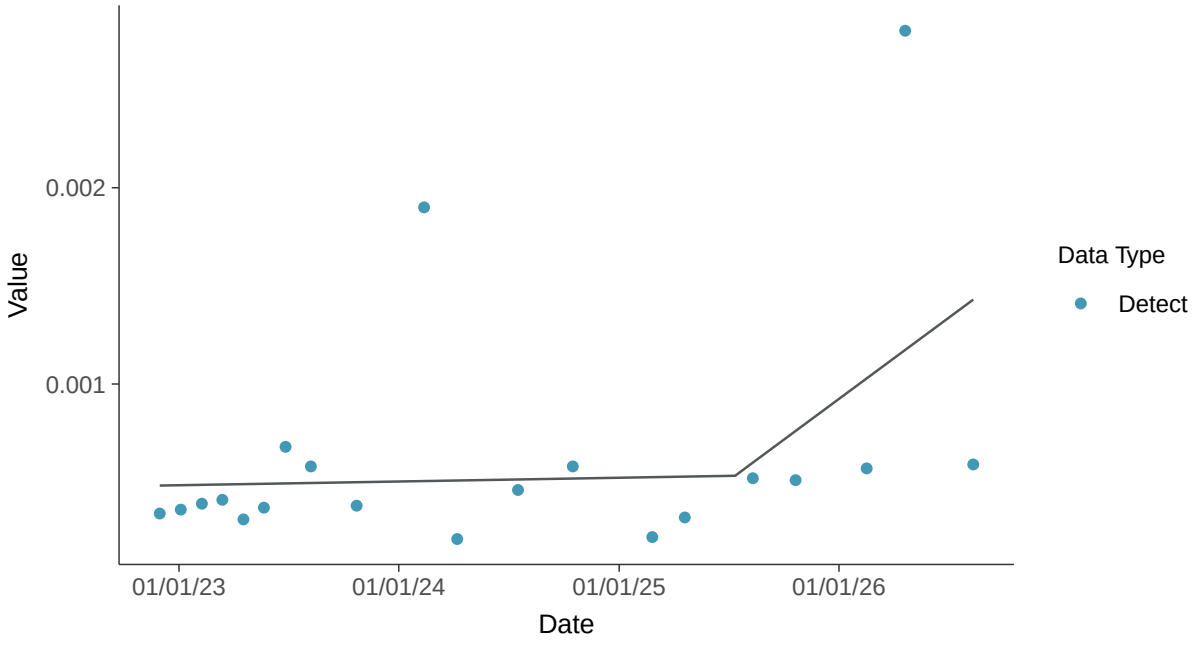
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Cobalt, MW-32 (mg/L)



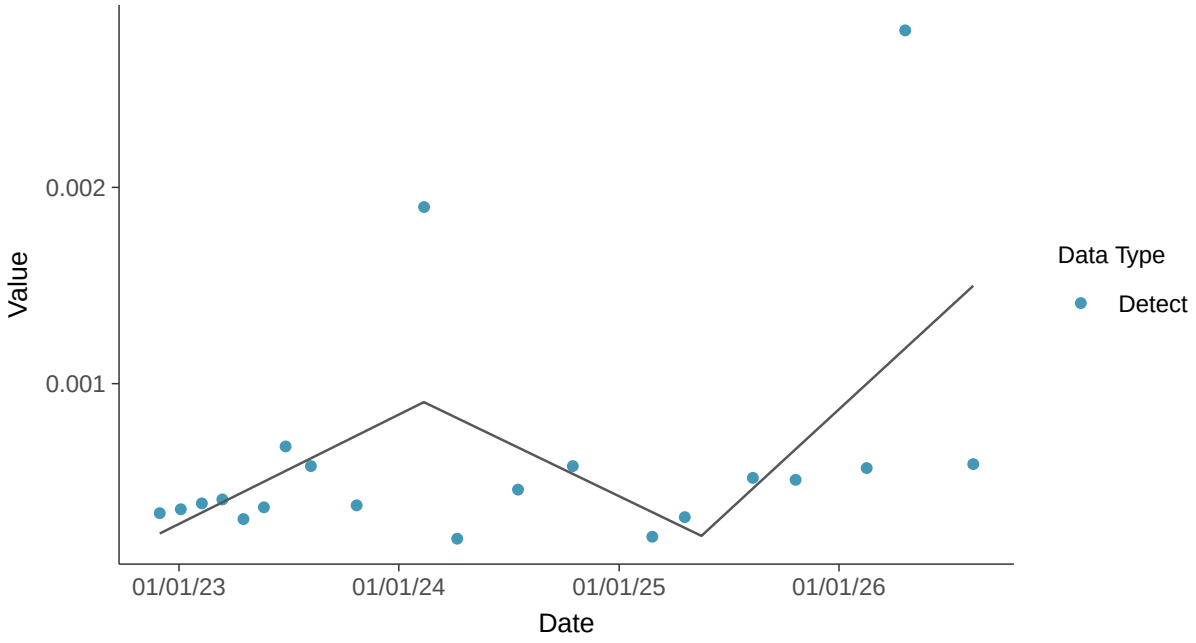
Trend Regression: Piecewise Linear-Linear

Cobalt, MW-32 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Cobalt, MW-32 (mg/L)

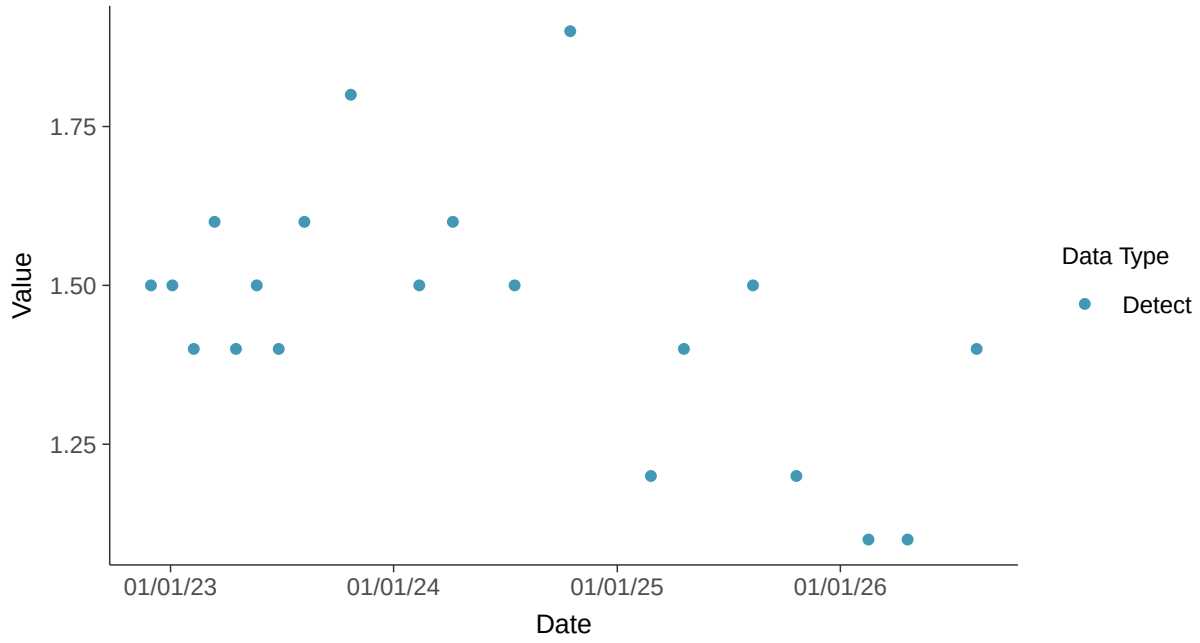


Appendix IV: Fluoride (App IV), MW-32

ID: 42_1_4_113

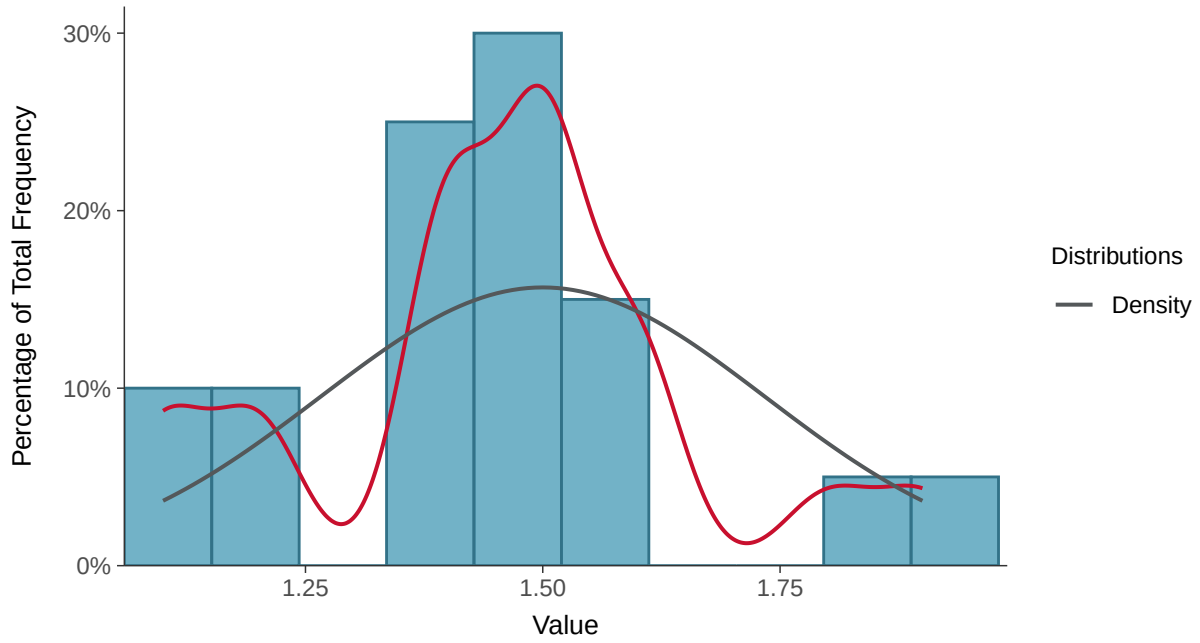
Scatter Plot

Fluoride (App IV), MW-32 (mg/L)



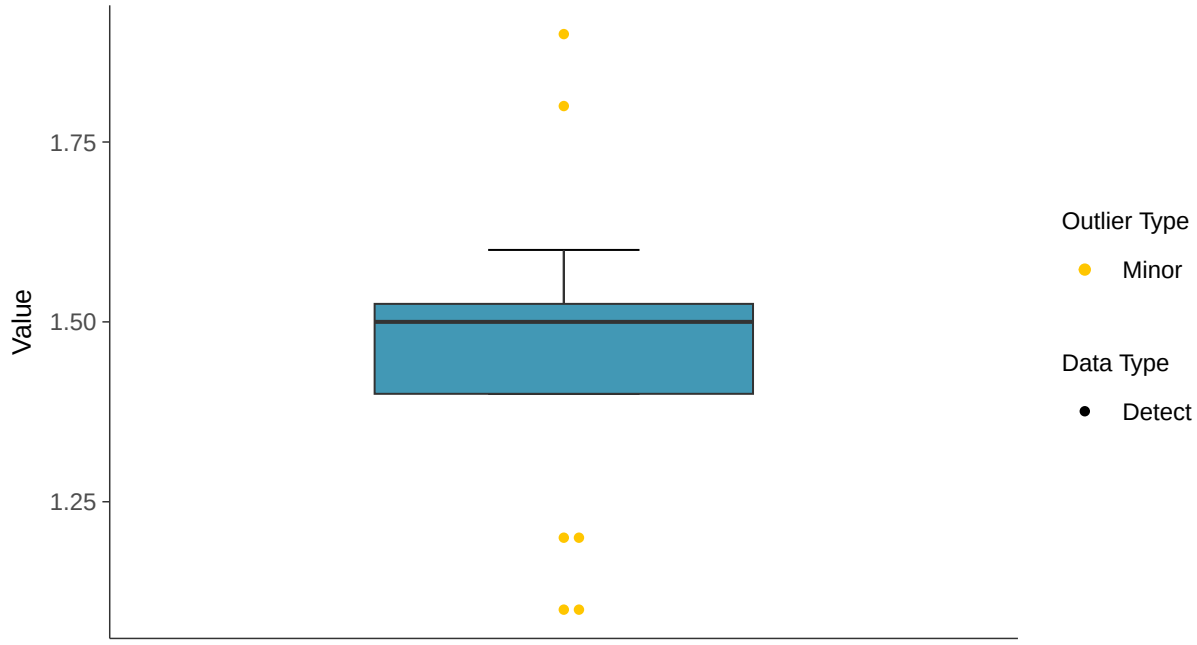
Histogram

Fluoride (App IV), MW-32 (mg/L)



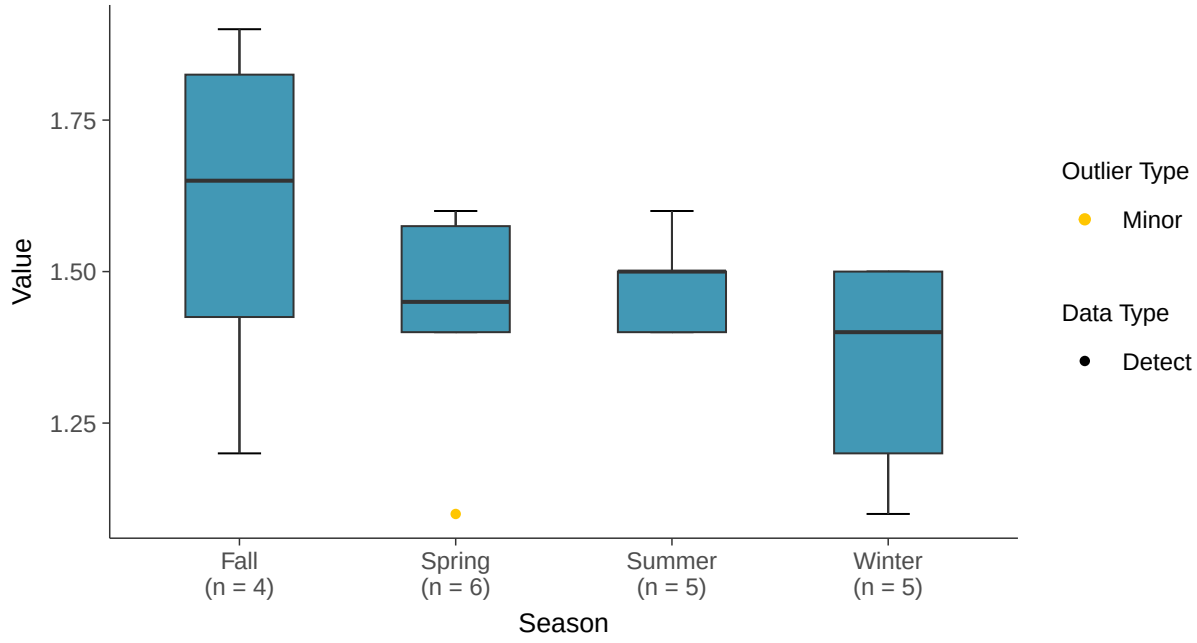
Boxplot

Fluoride (App IV), MW-32 (mg/L)



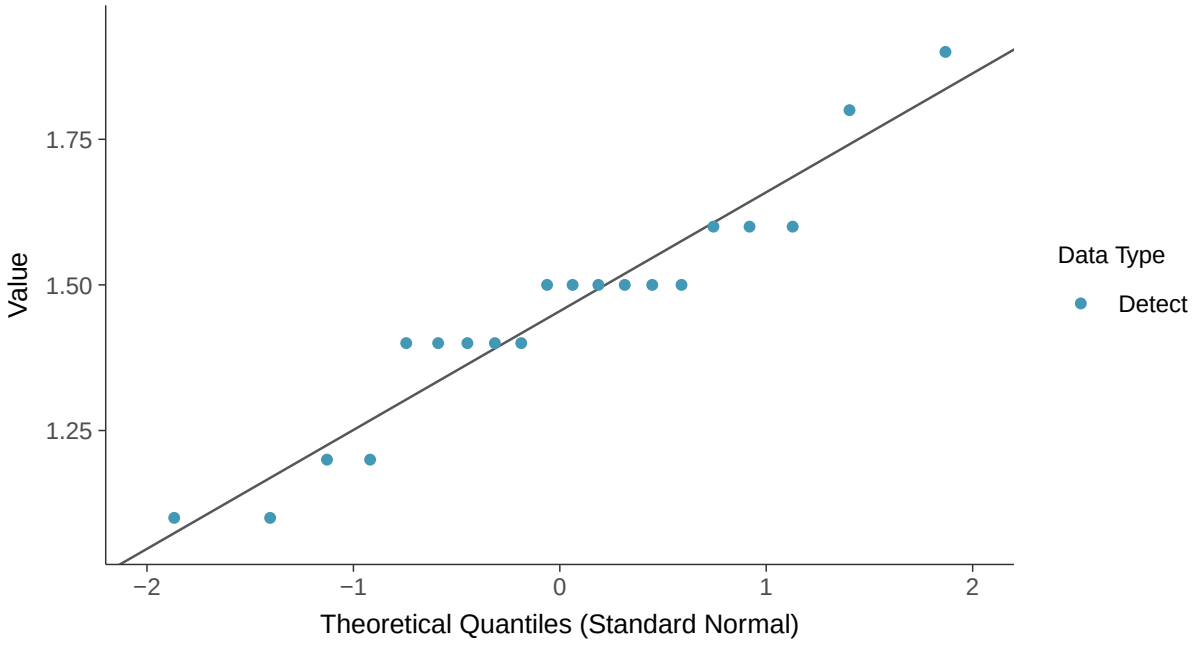
Boxplot by Season

Fluoride (App IV), MW-32 (mg/L)



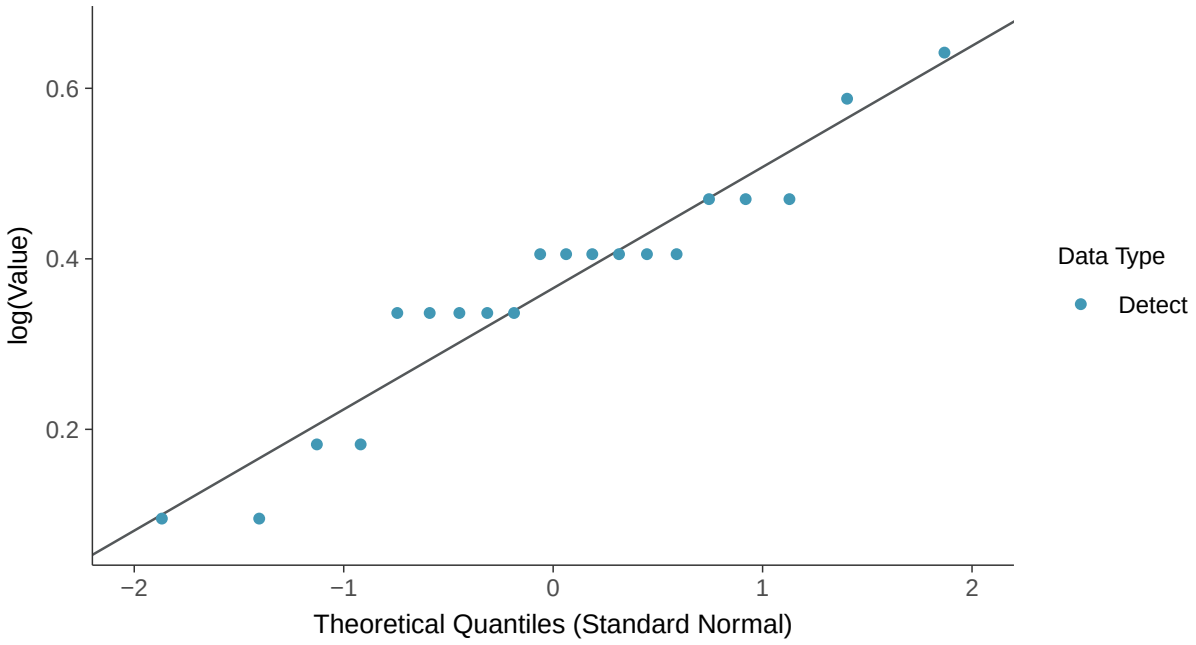
Normal Q-Q plot

Fluoride (App IV), MW-32 (mg/L)



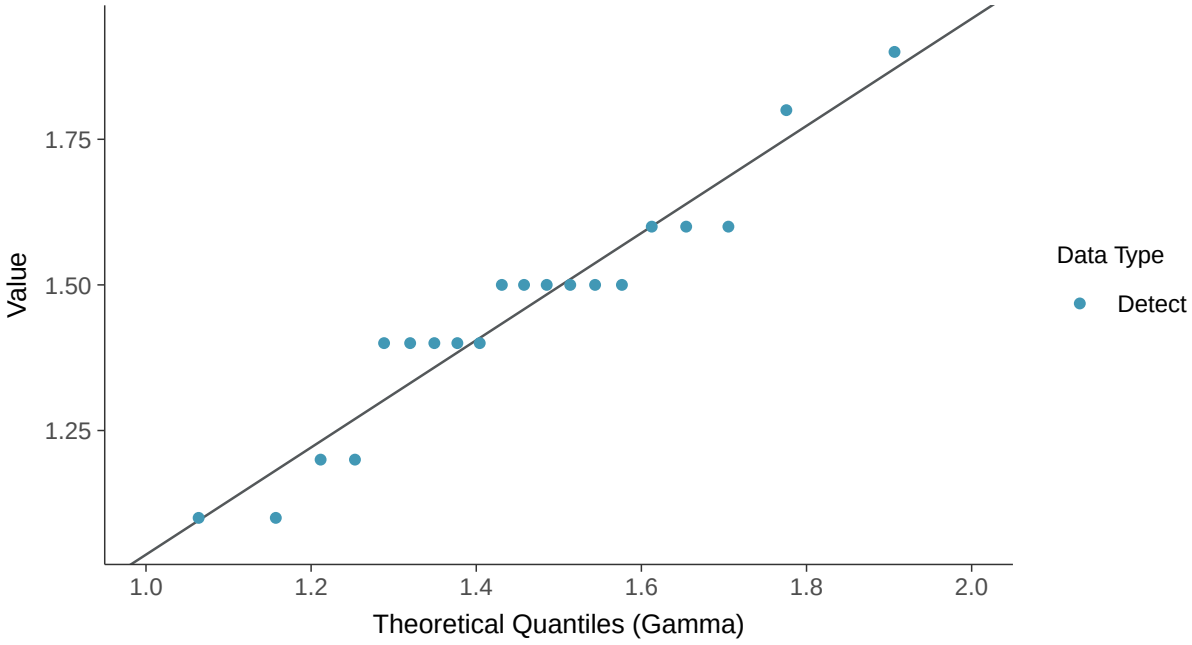
Lognormal Q-Q plot

Fluoride (App IV), MW-32 (mg/L)



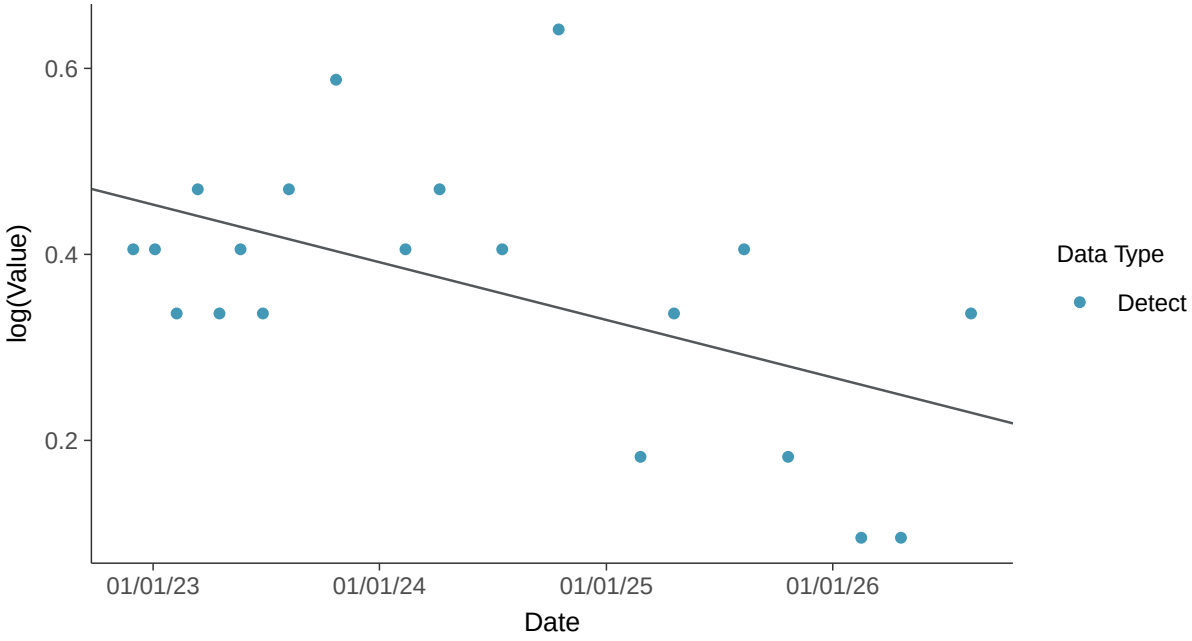
Gamma Q-Q plot

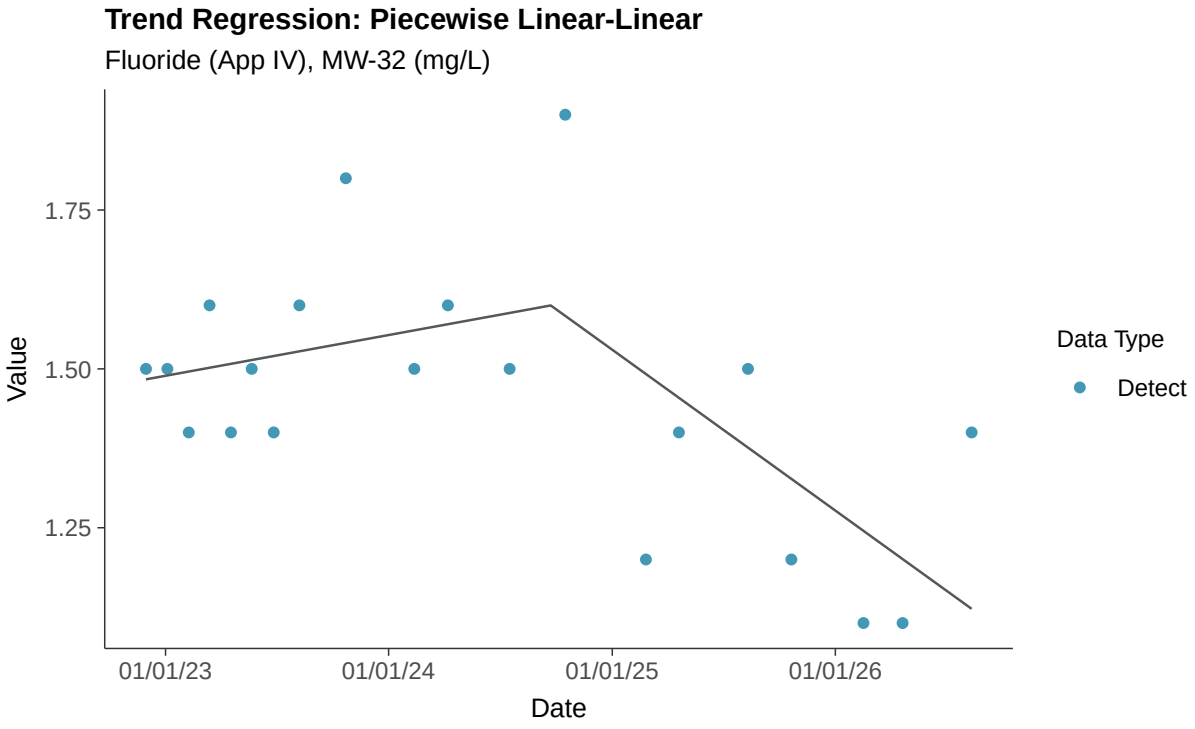
Fluoride (App IV), MW-32 (mg/L)



Trend Regression: Lognormal MLE

Fluoride (App IV), MW-32 (mg/L)



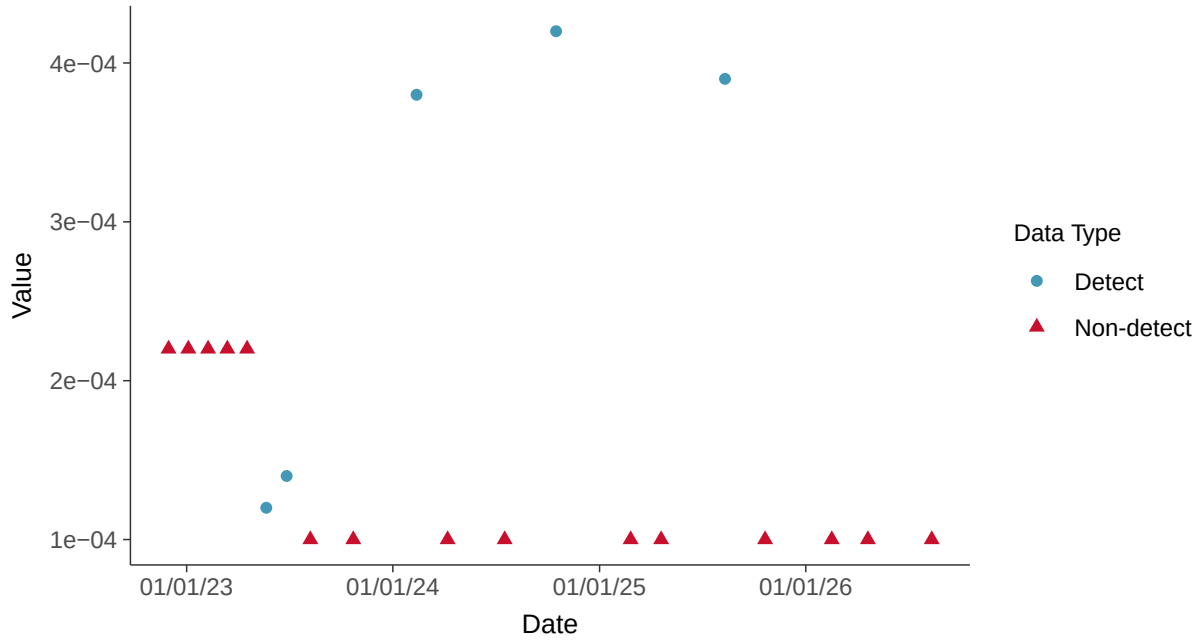

Trend Regression: Piecewise Linear-Linear
Fluoride (App IV), MW-32 (mg/L)
Value
1.75
1.50
1.25
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect

Appendix IV: Lead, MW-32

ID: 42_1_4_115

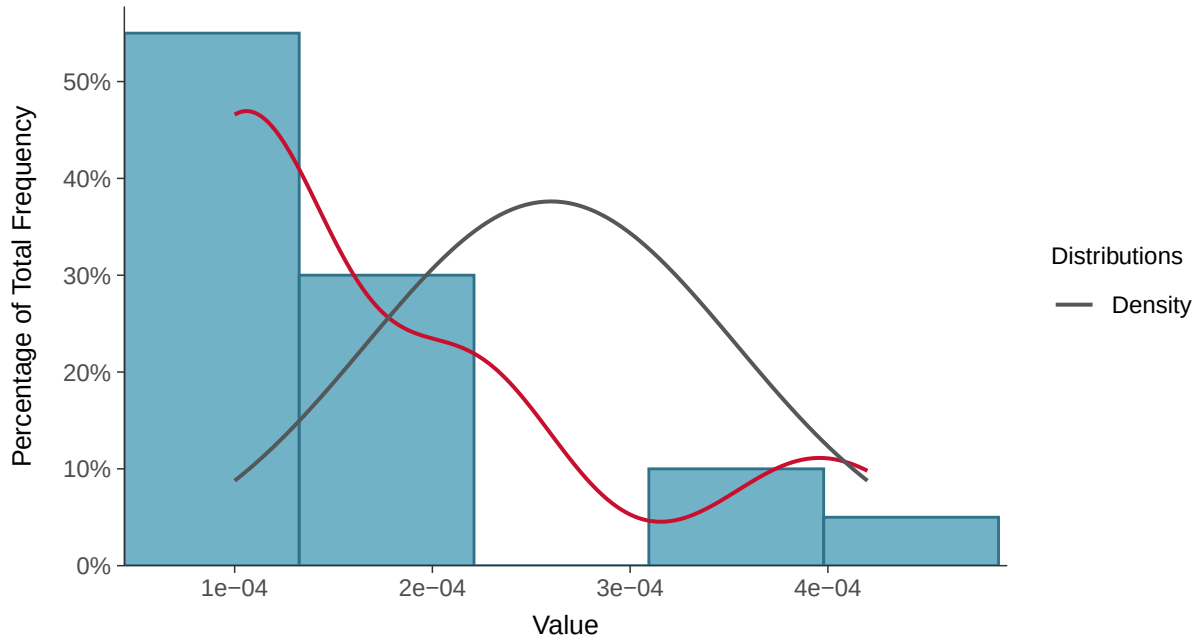
Scatter Plot

Lead, MW-32 (mg/L)



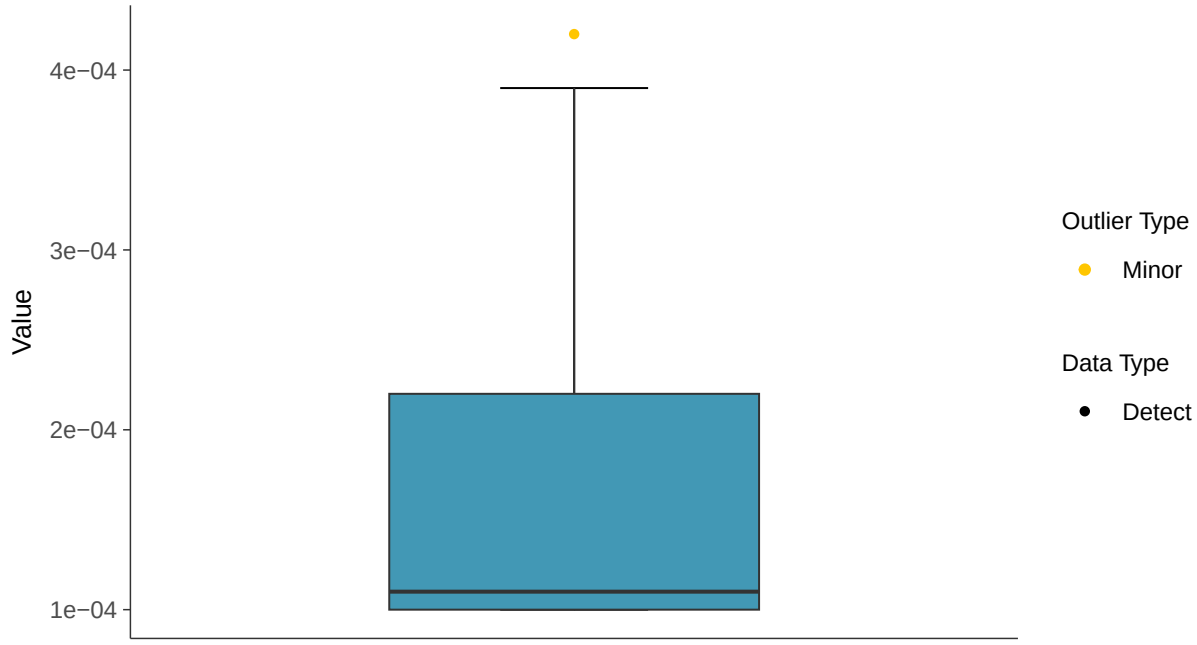
Histogram

Lead, MW-32 (mg/L)



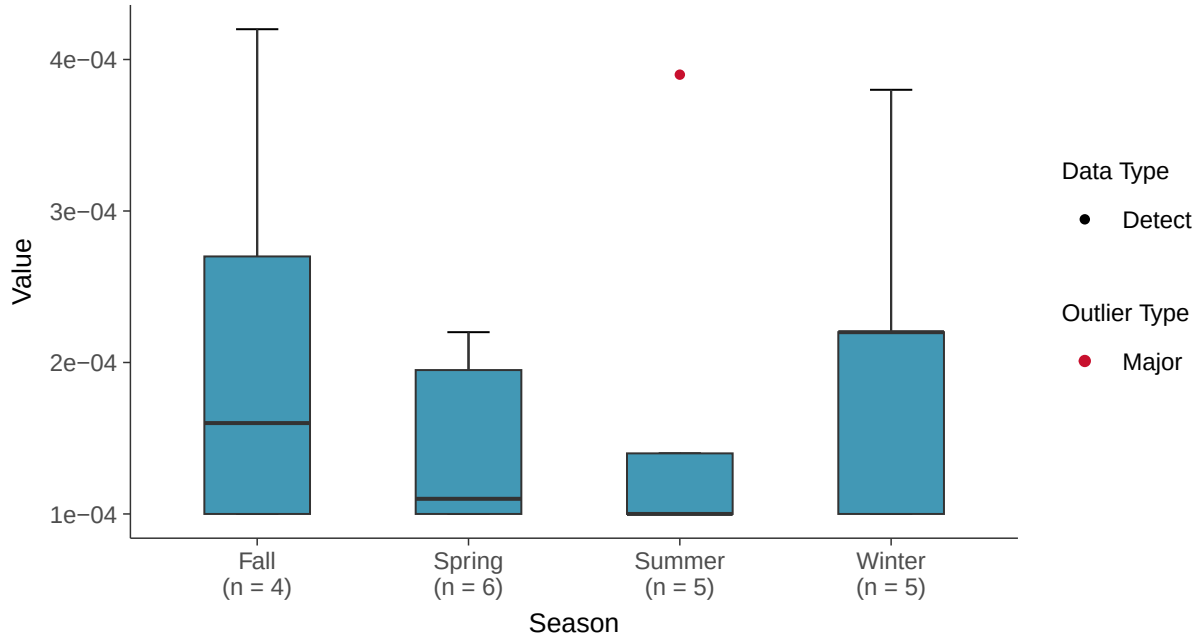
Boxplot

Lead, MW-32 (mg/L)



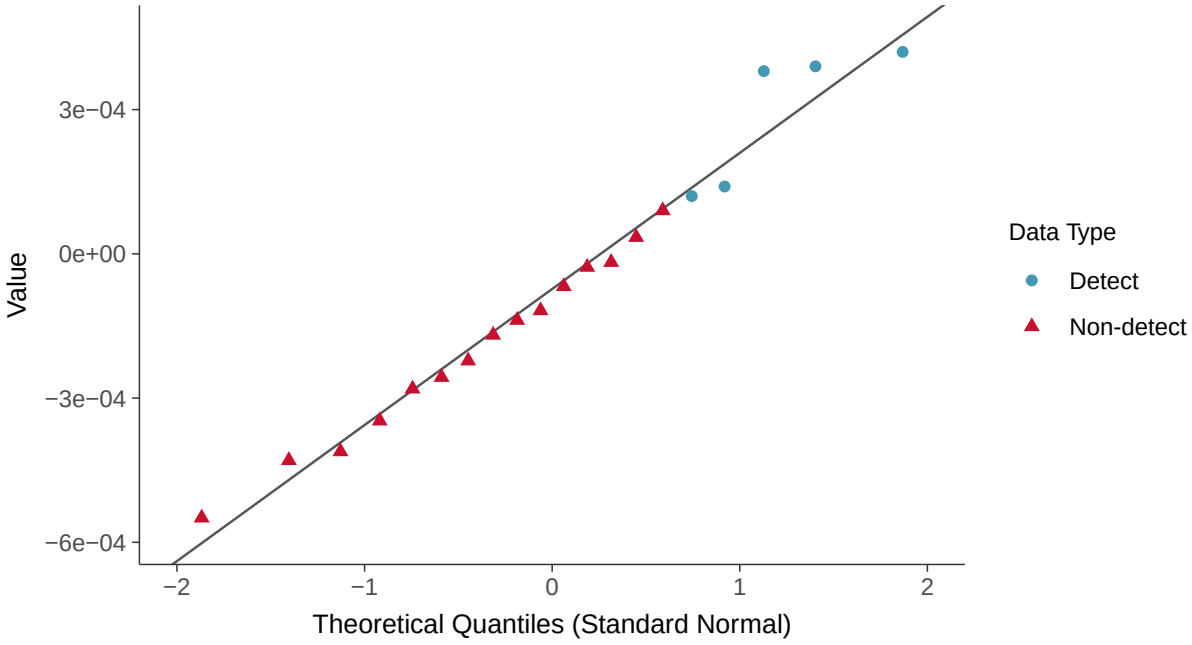
Boxplot by Season

Lead, MW-32 (mg/L)



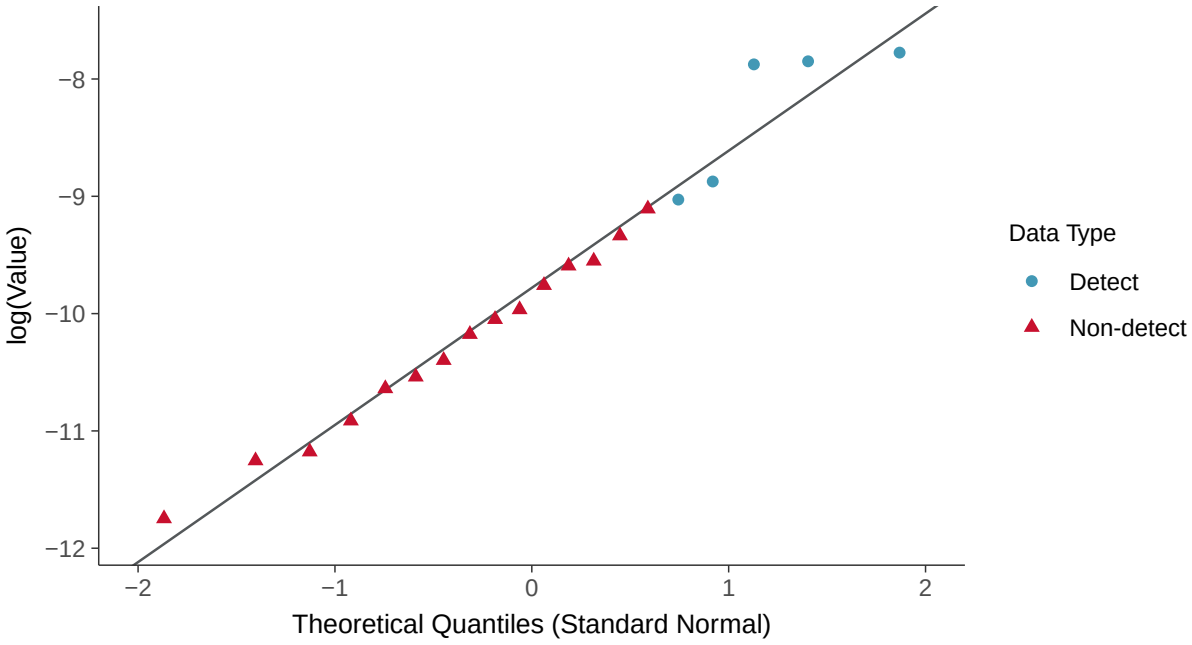
Normal Q-Q plot using ROS Imputed Estimates

Lead, MW-32 (mg/L)



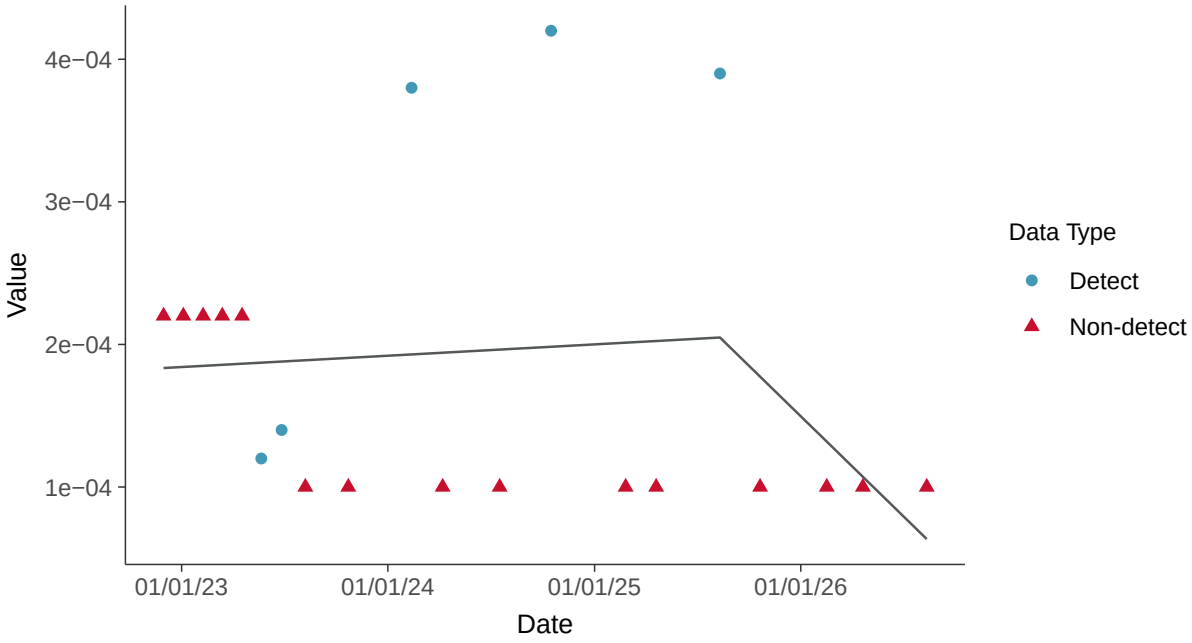
Lognormal Q-Q plot using ROS Imputed Estimates

Lead, MW-32 (mg/L)



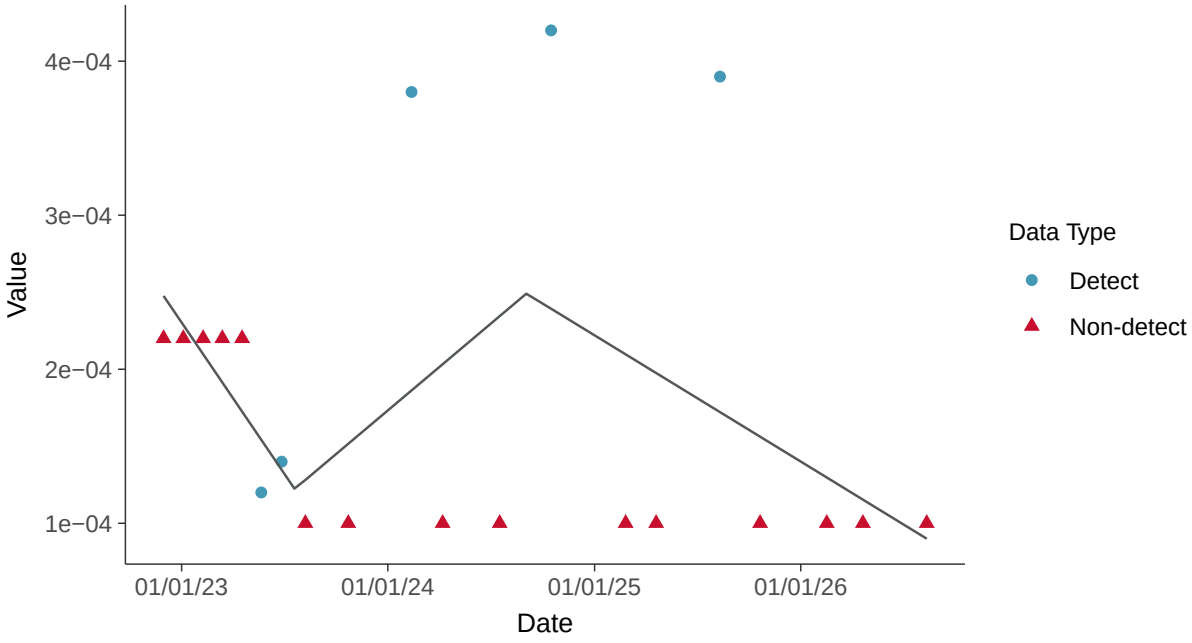
Trend Regression: Piecewise Linear-Linear

Lead, MW-32 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Lead, MW-32 (mg/L)

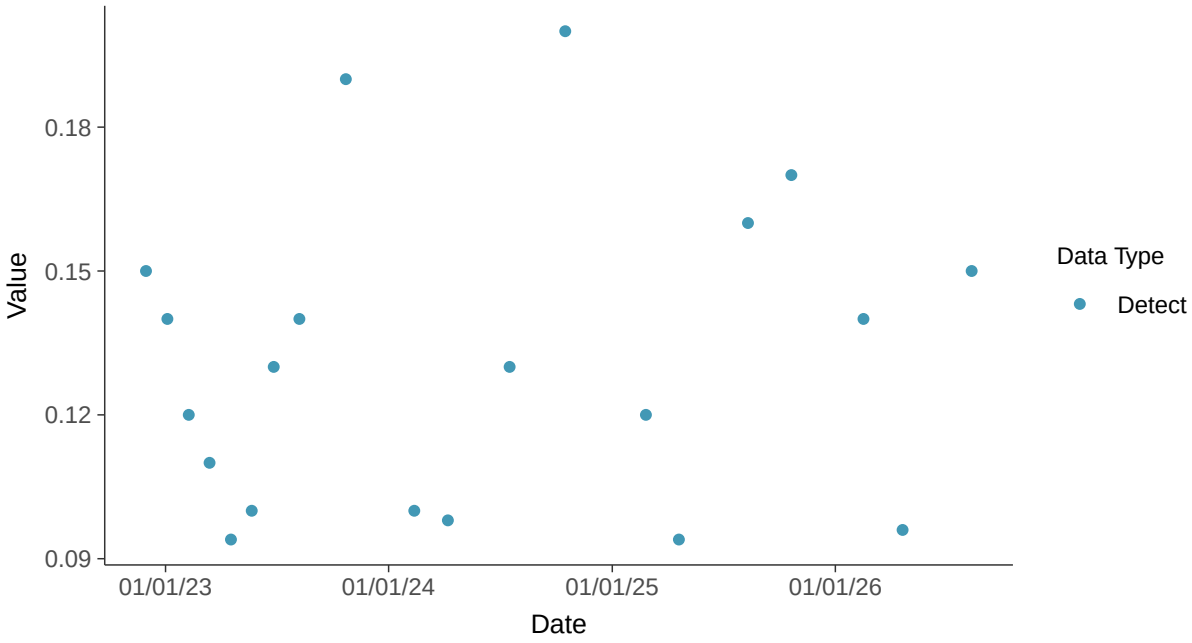


Appendix IV: Lithium, MW-32

ID: 42_1_4_116

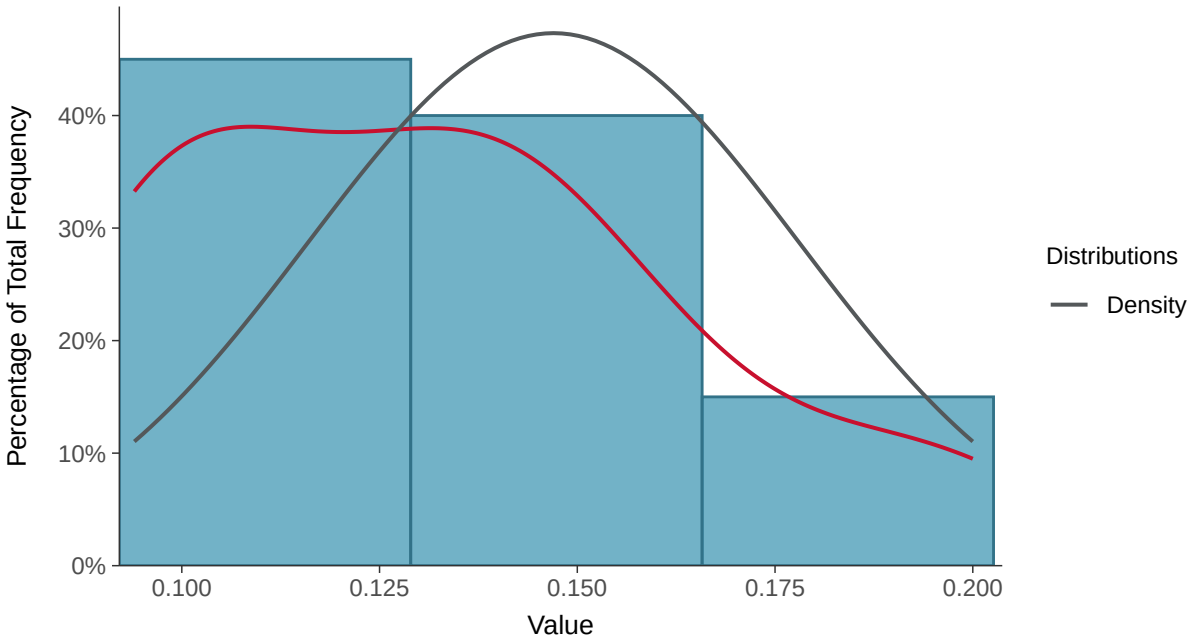
Scatter Plot

Lithium, MW-32 (mg/L)



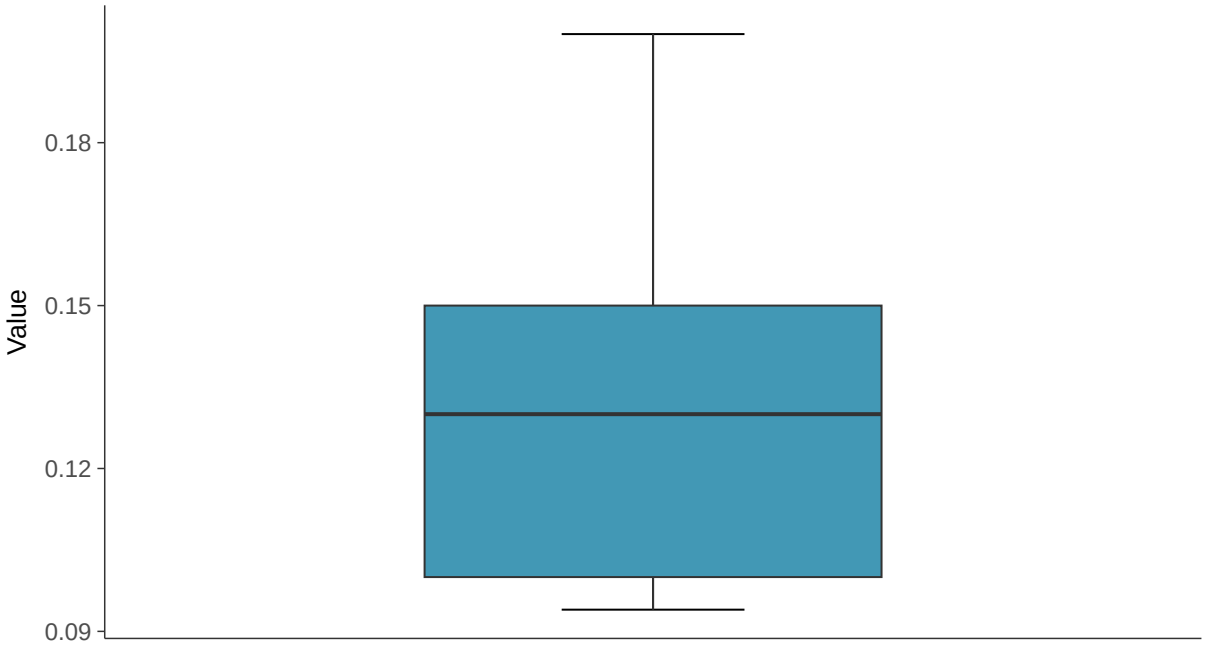
Histogram

Lithium, MW-32 (mg/L)



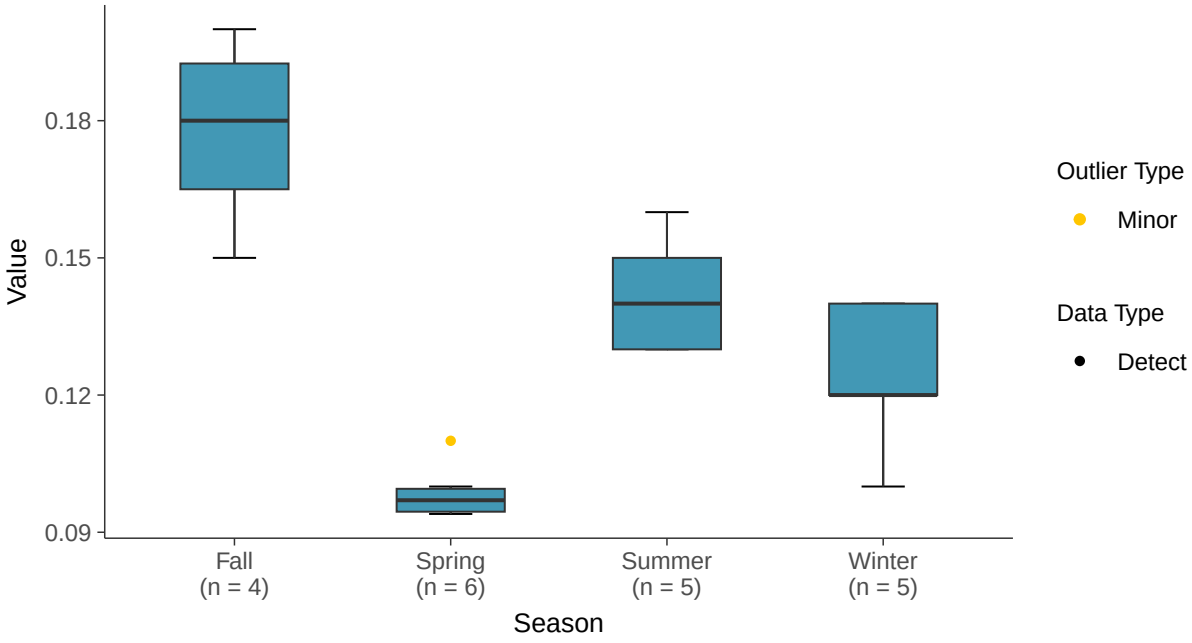
Boxplot

Lithium, MW-32 (mg/L)



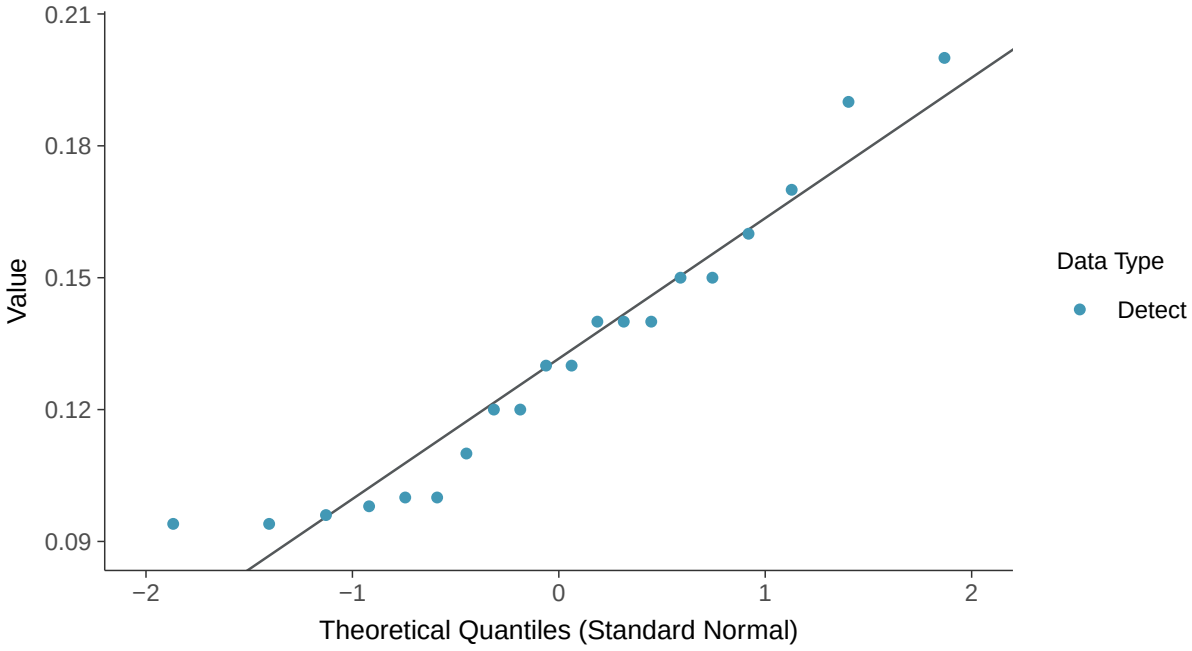
Boxplot by Season

Lithium, MW-32 (mg/L)



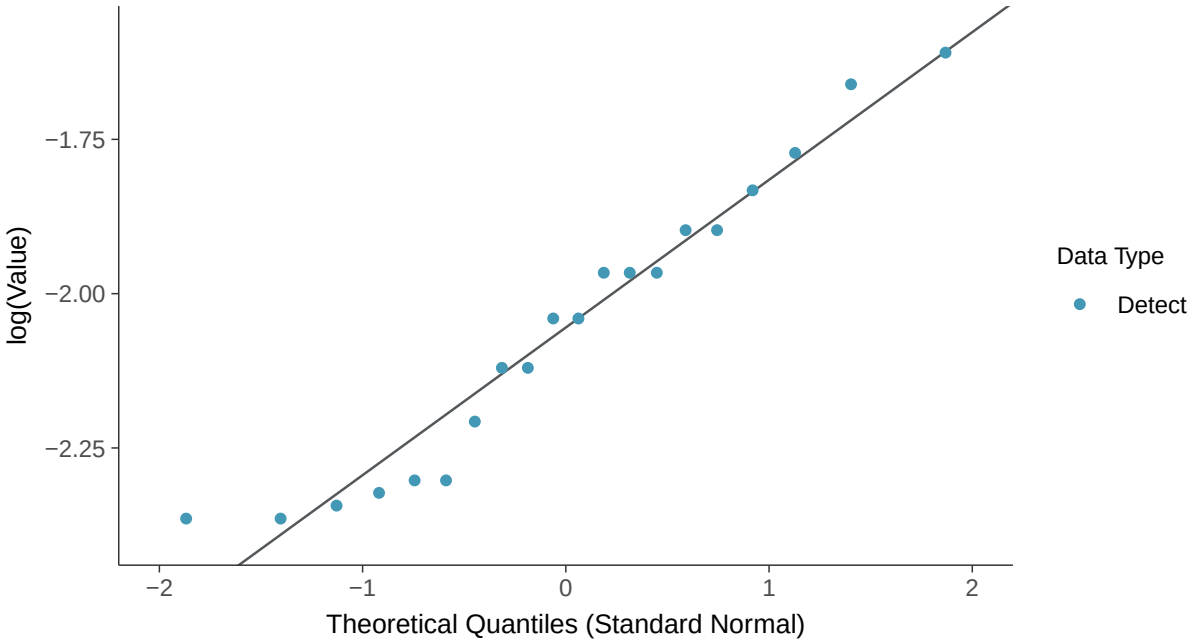
Normal Q-Q plot

Lithium, MW-32 (mg/L)



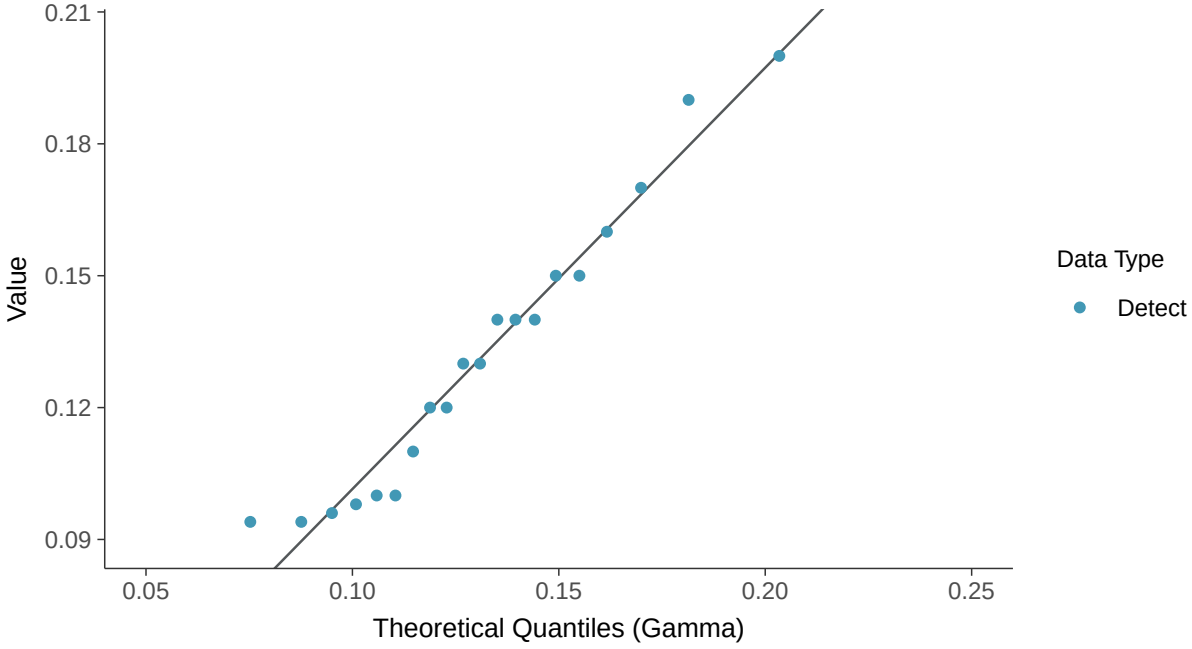
Lognormal Q-Q plot

Lithium, MW-32 (mg/L)



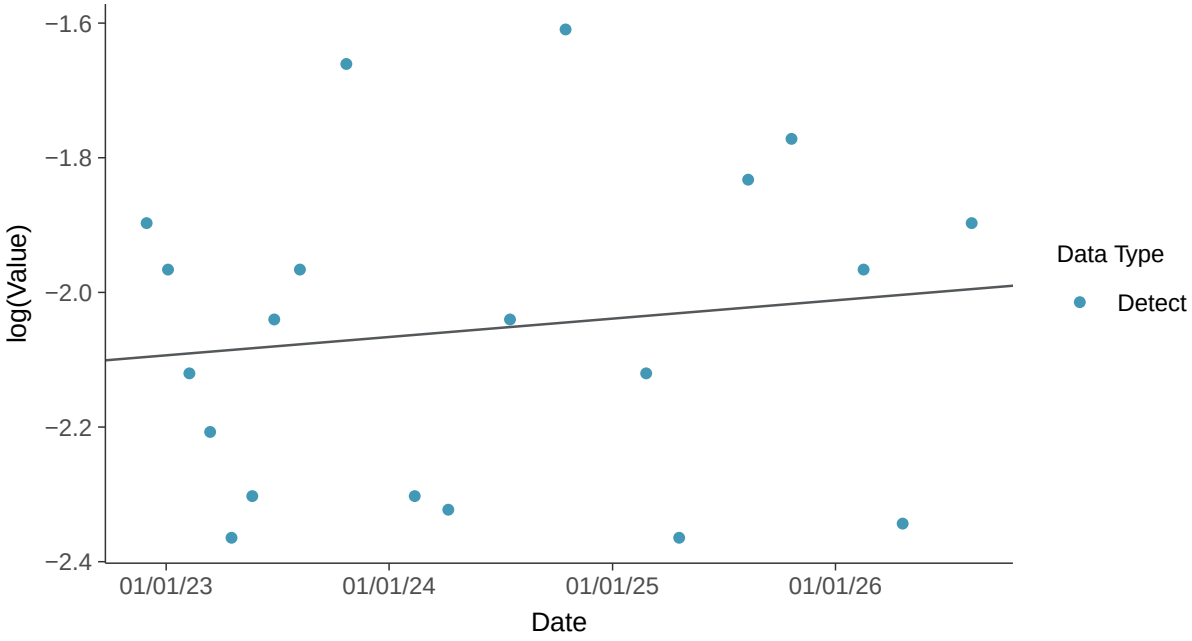
Gamma Q-Q plot

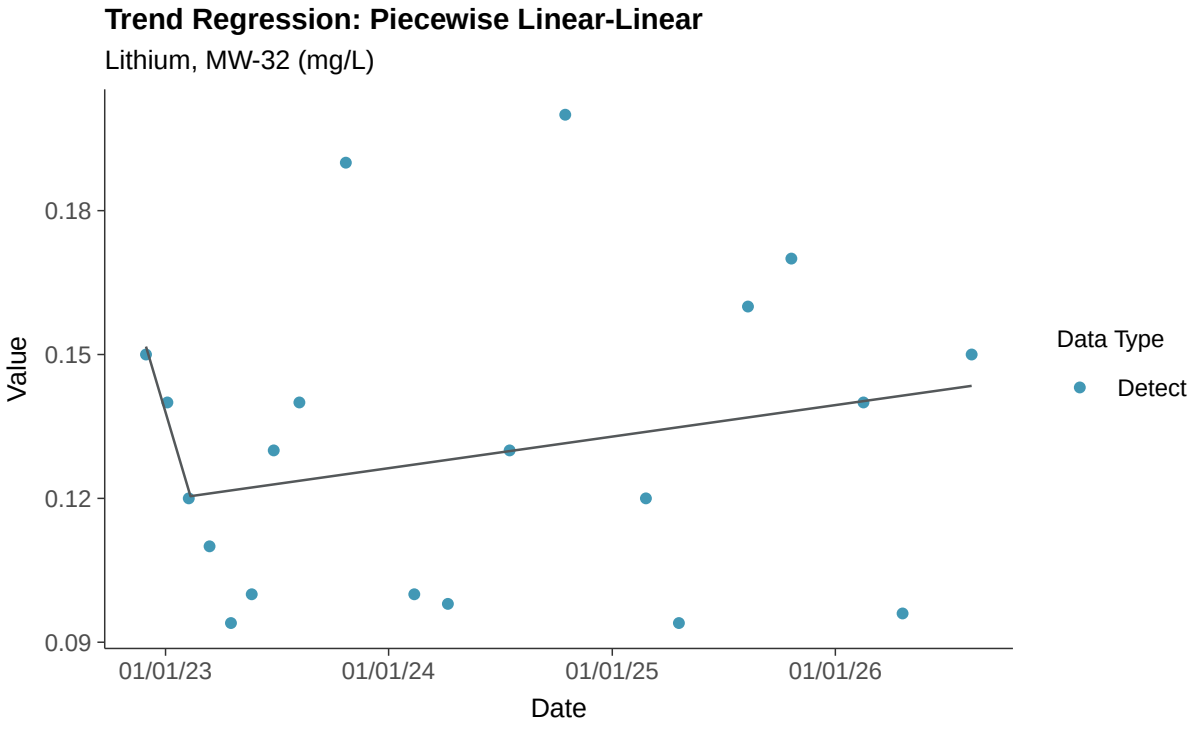
Lithium, MW-32 (mg/L)



Trend Regression: Lognormal MLE

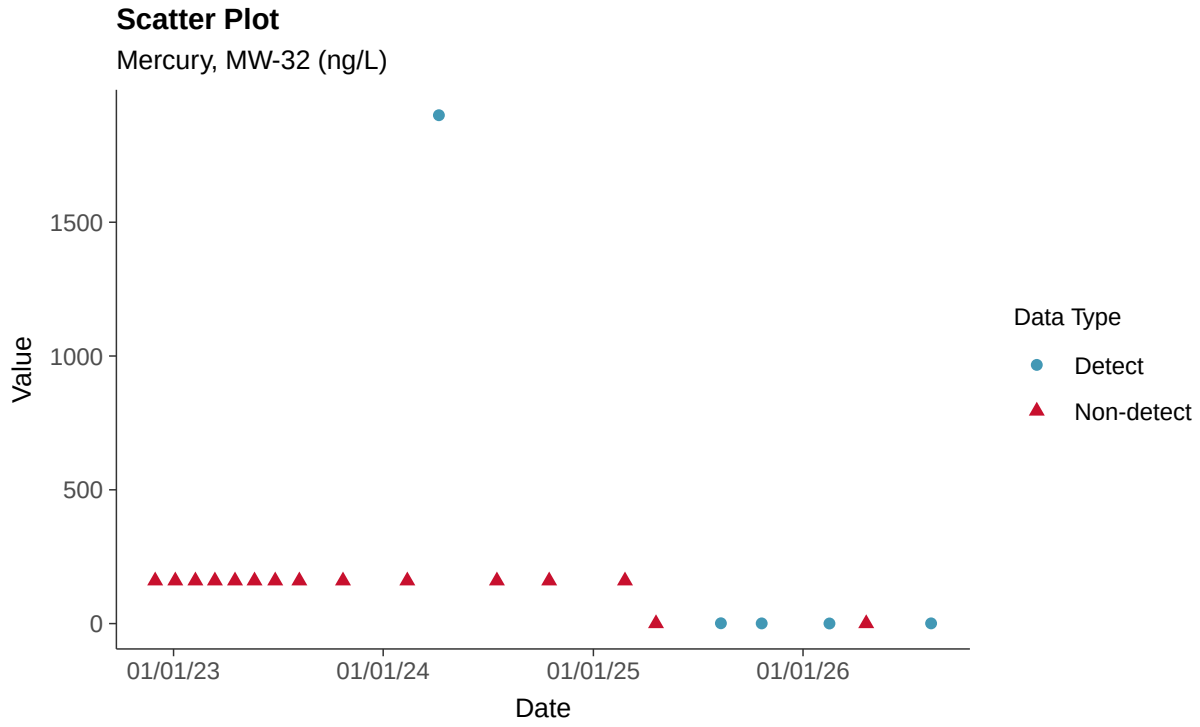
Lithium, MW-32 (mg/L)

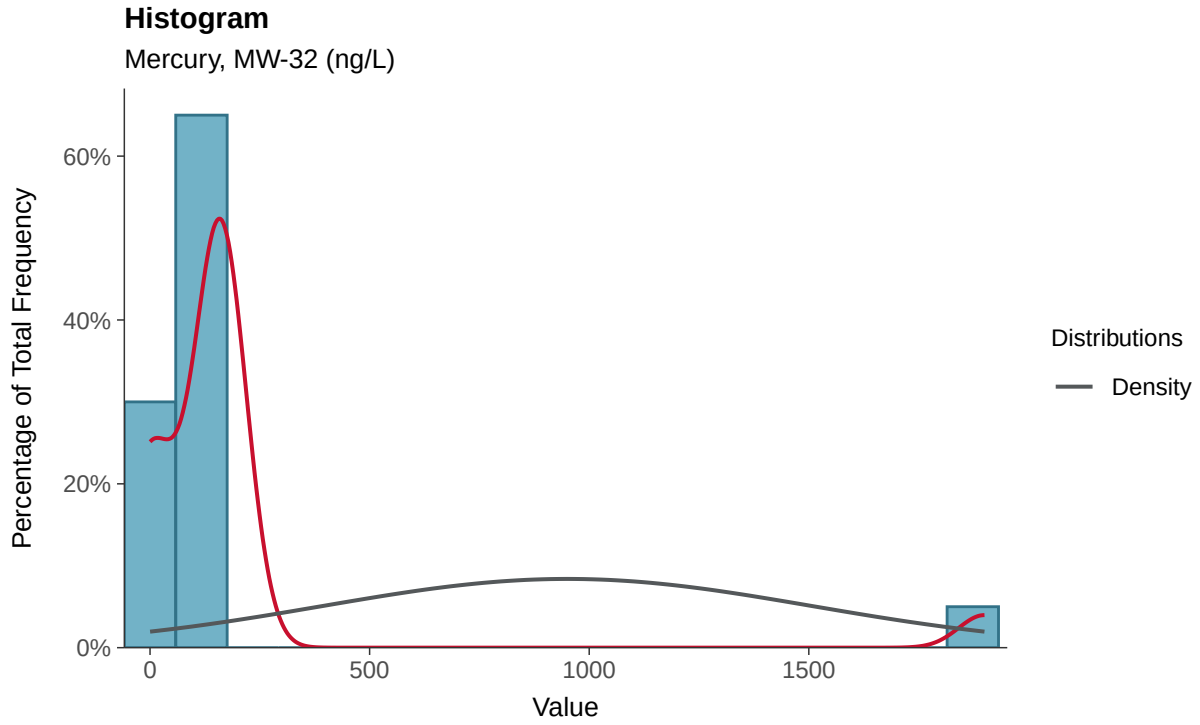



Trend Regression: Piecewise Linear-Linear
Lithium, MW-32 (mg/L)
Value
0.18
0.15
0.12
0.09
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect

Appendix IV: Mercury, MW-32

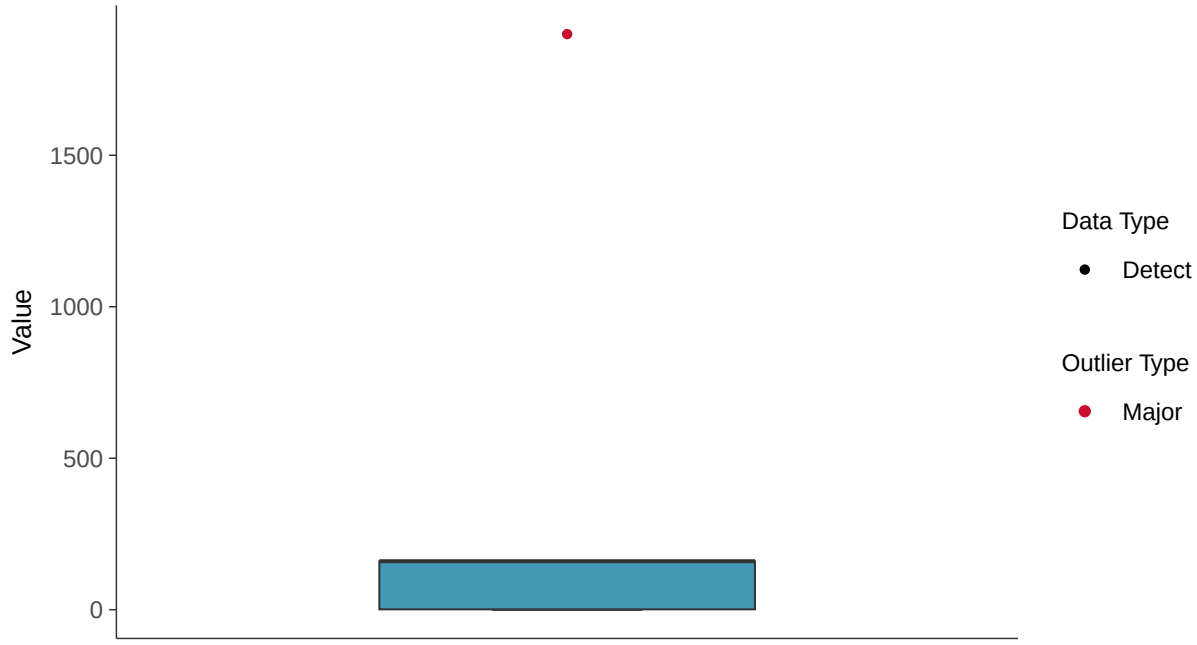
ID: 42_1_4_117





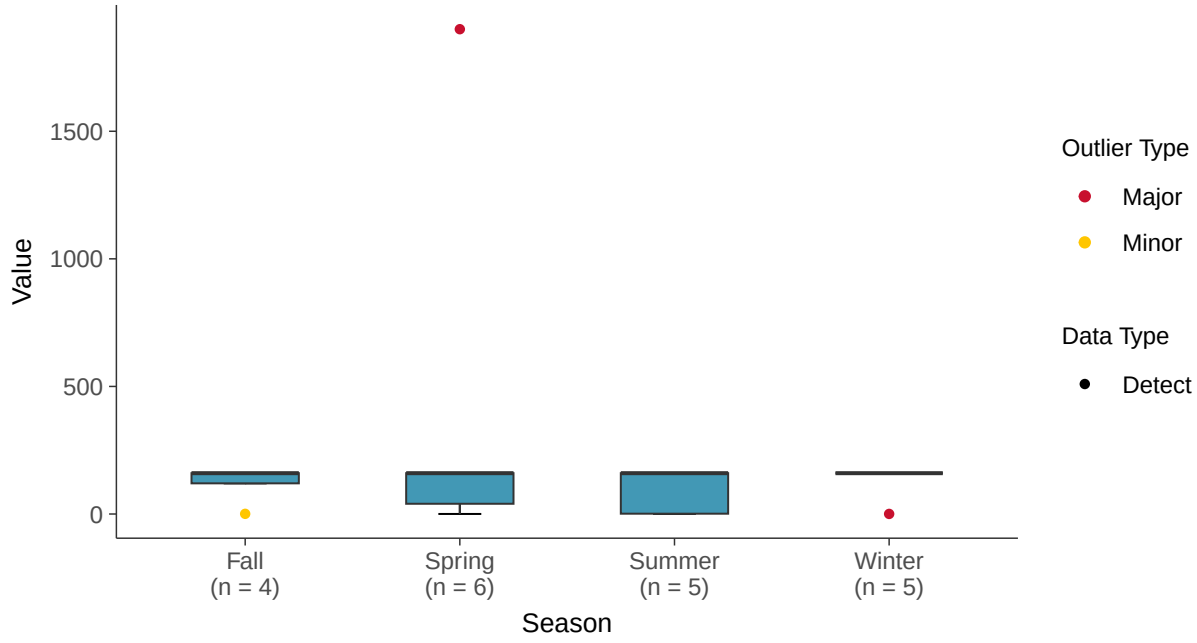
Boxplot

Mercury, MW-32 (ng/L)



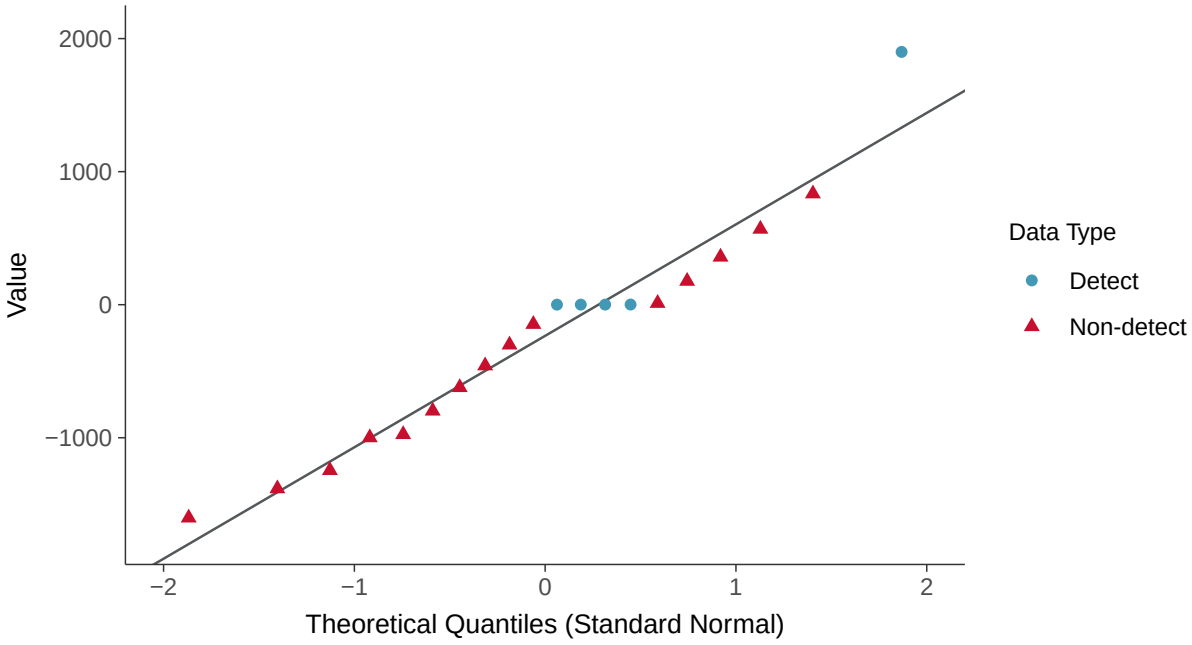
Boxplot by Season

Mercury, MW-32 (ng/L)



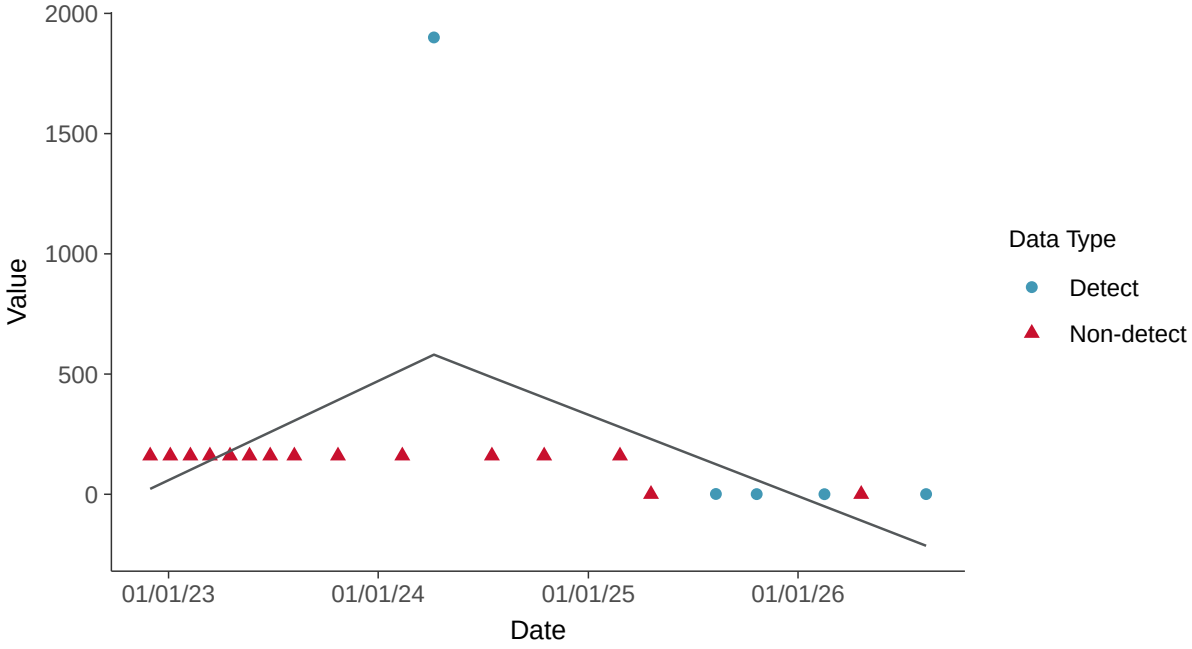
Normal Q-Q plot using ROS Imputed Estimates

Mercury, MW-32 (ng/L)



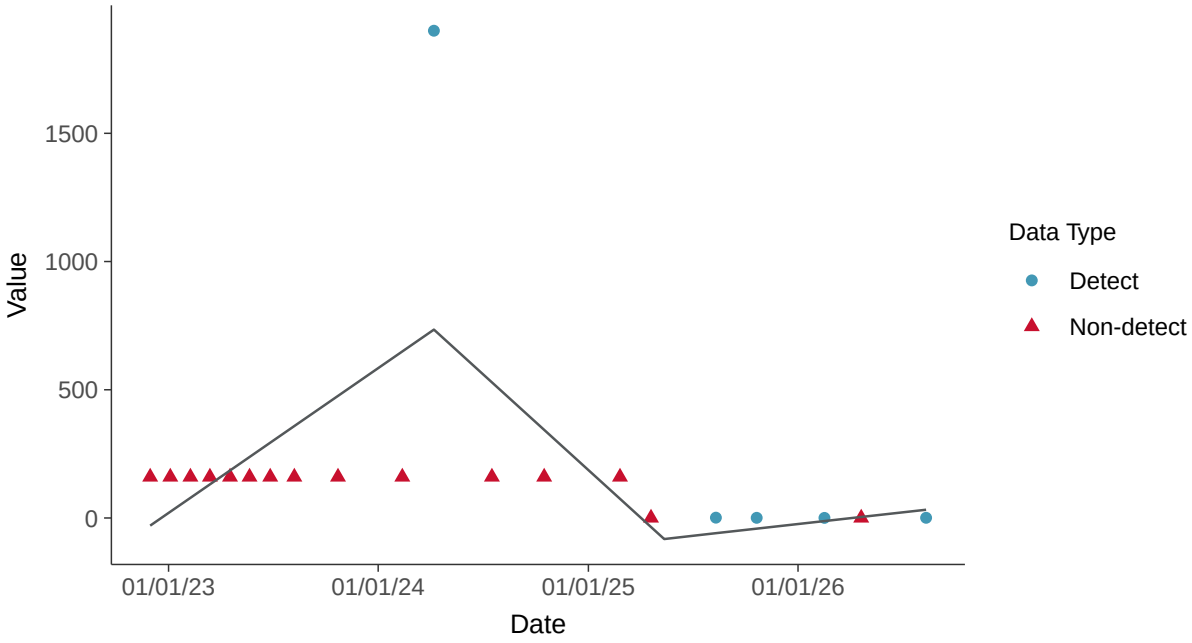
Trend Regression: Piecewise Linear-Linear

Mercury, MW-32 (ng/L)



Trend Regression: Piecewise Linear-Linear-Linear

Mercury, MW-32 (ng/L)

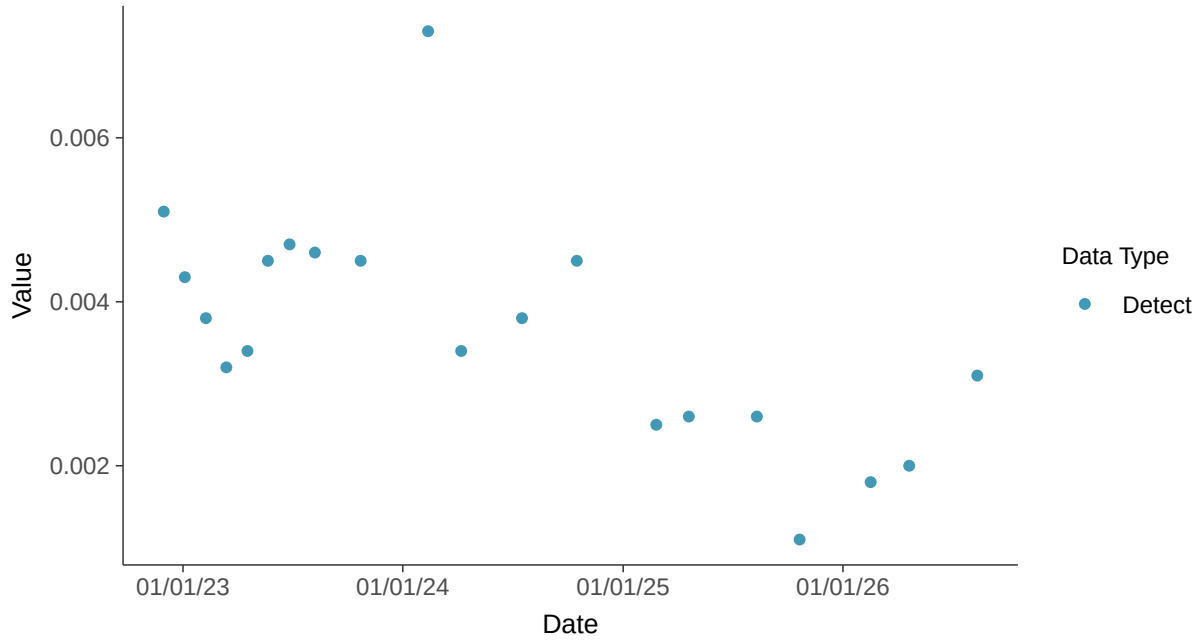


Appendix IV: Molybdenum, MW-32

ID: 42_1_4_118

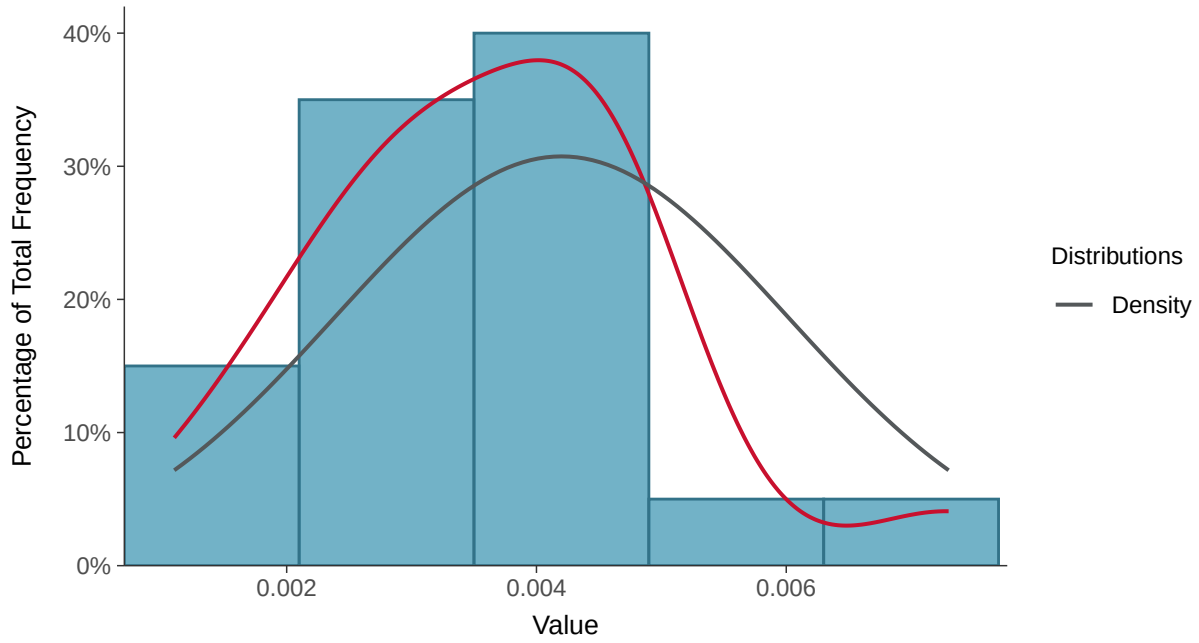
Scatter Plot

Molybdenum, MW-32 (mg/L)



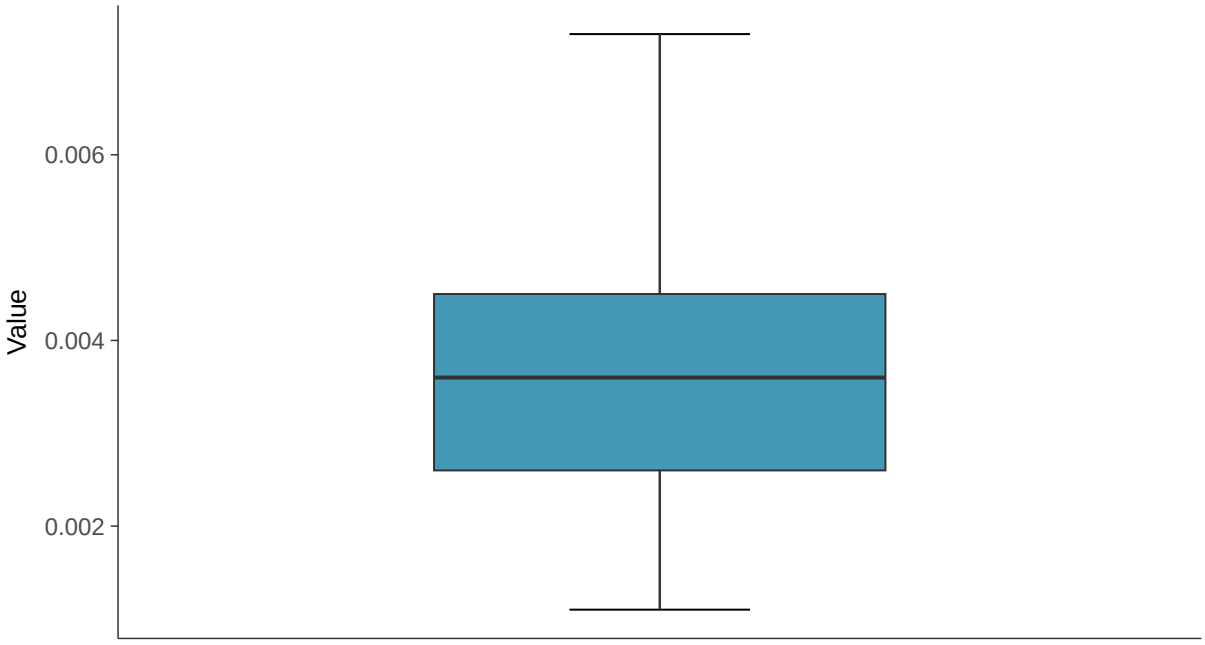
Histogram

Molybdenum, MW-32 (mg/L)



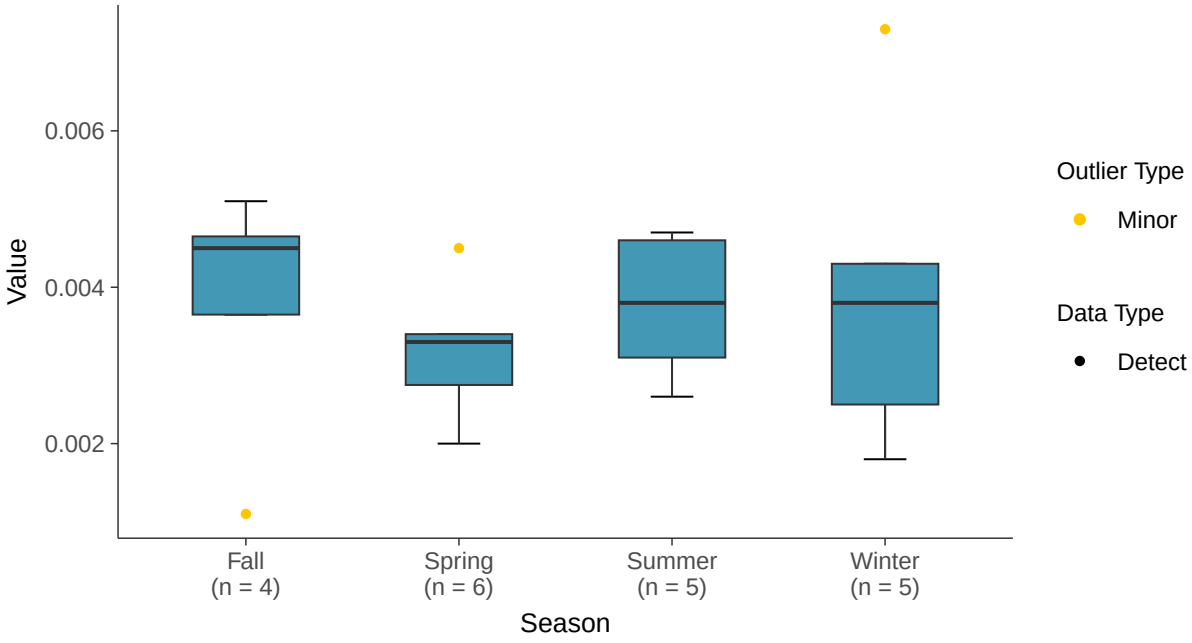
Boxplot

Molybdenum, MW-32 (mg/L)



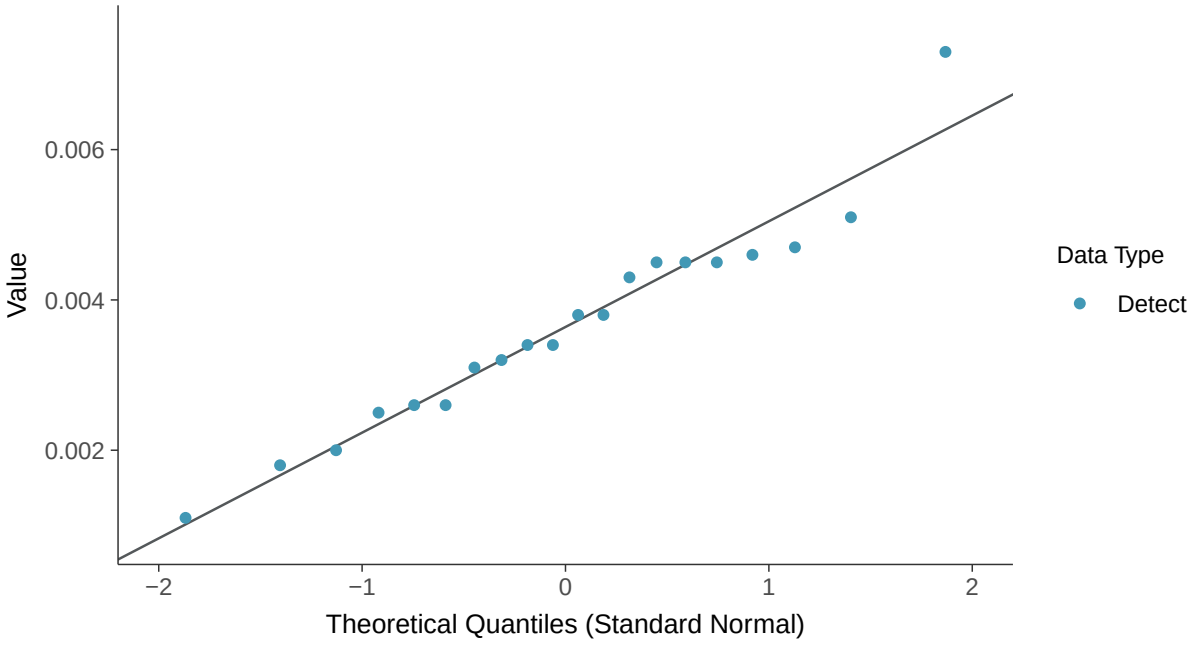
Boxplot by Season

Molybdenum, MW-32 (mg/L)



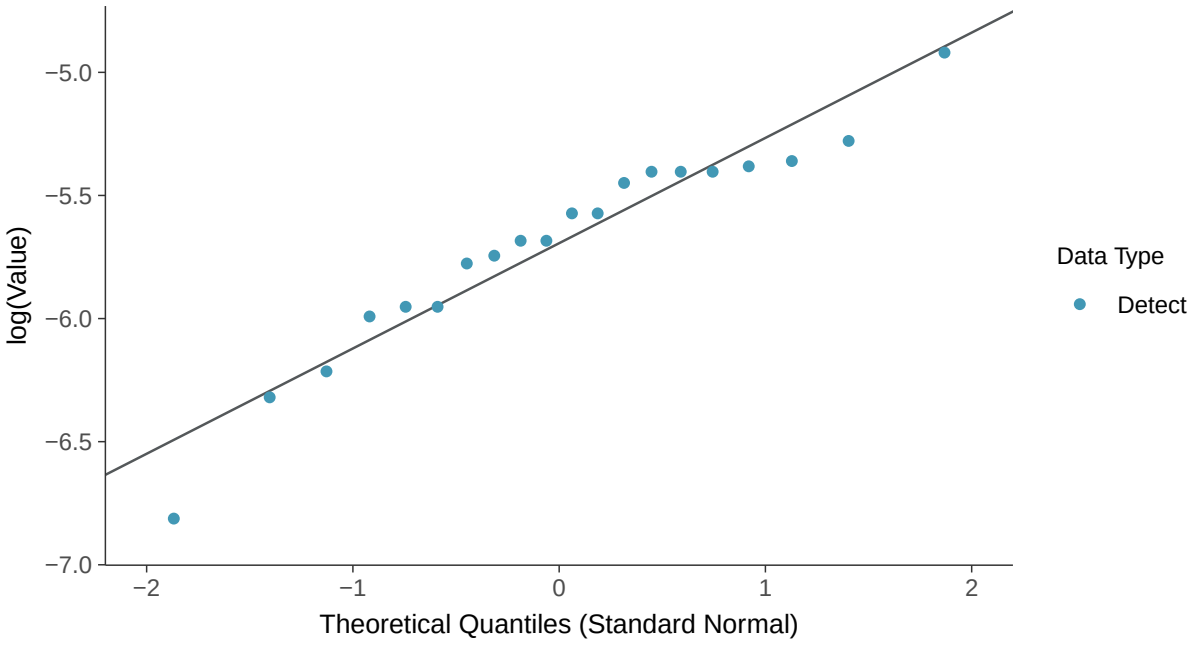
Normal Q-Q plot

Molybdenum, MW-32 (mg/L)



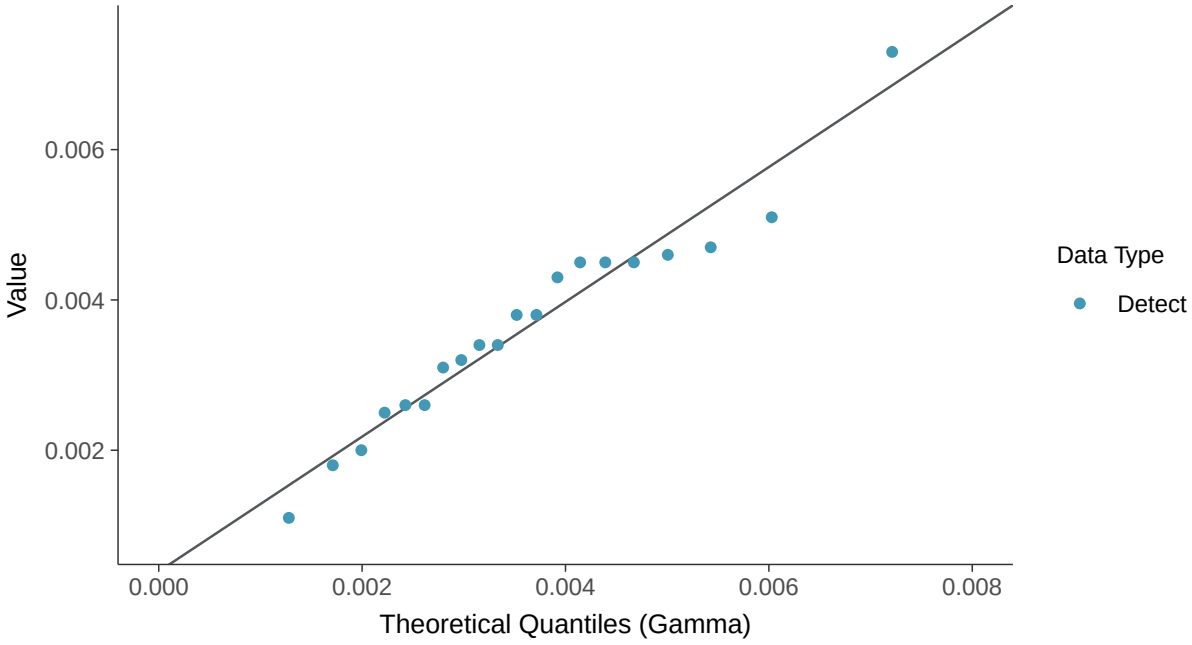
Lognormal Q-Q plot

Molybdenum, MW-32 (mg/L)



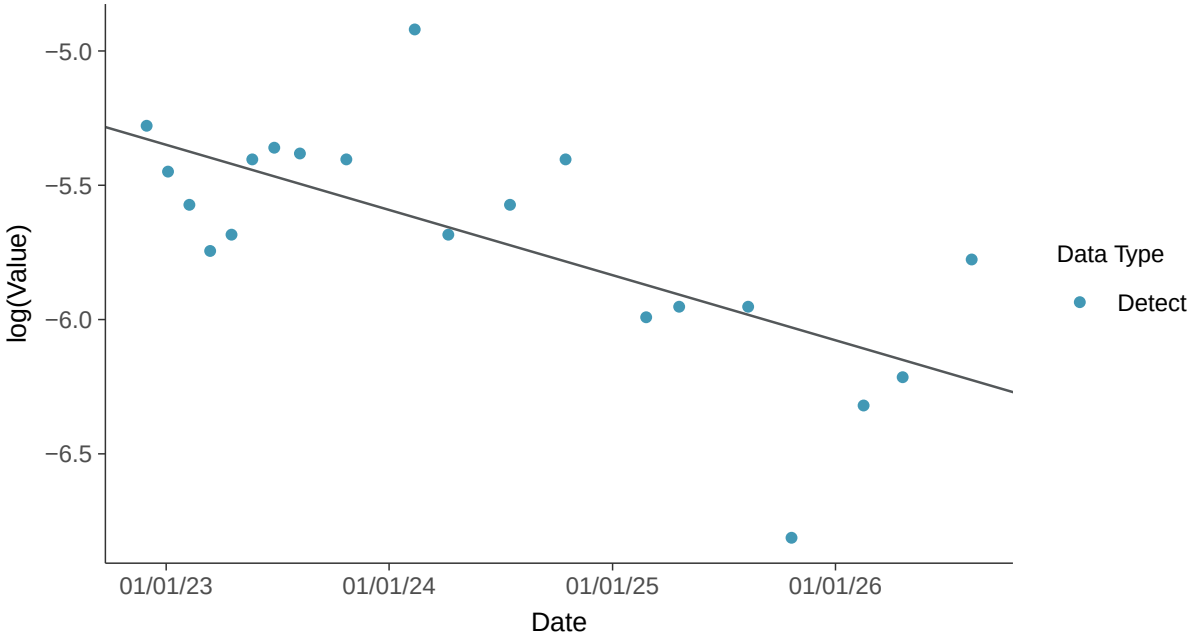
Gamma Q-Q plot

Molybdenum, MW-32 (mg/L)



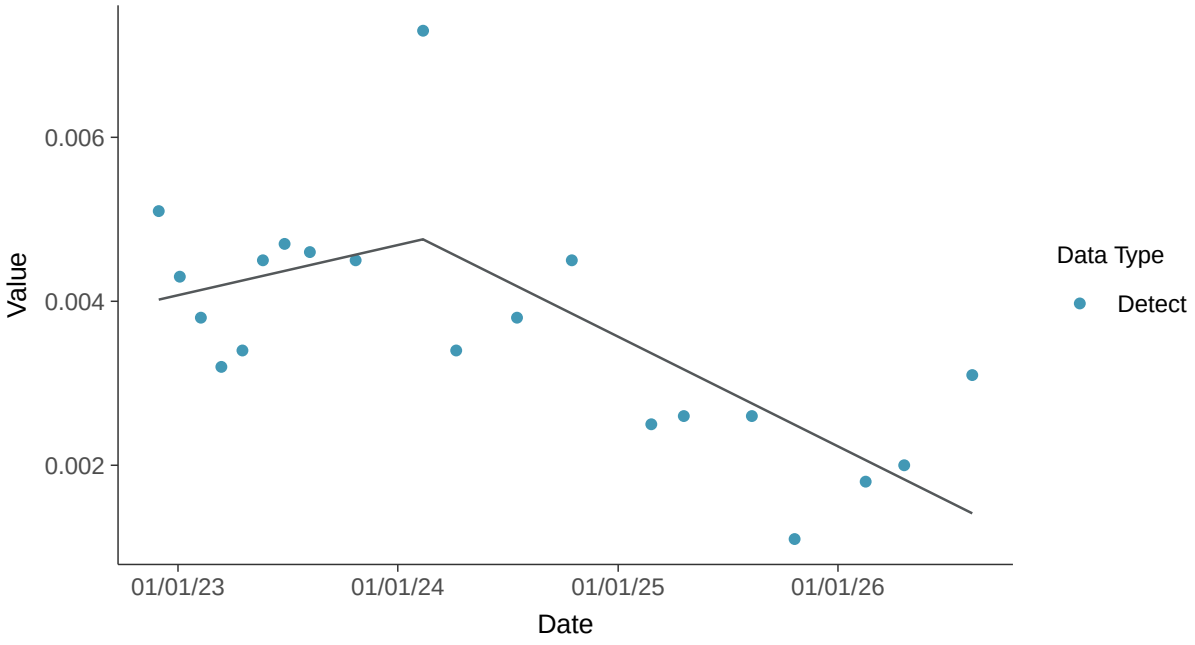
Trend Regression: Lognormal MLE

Molybdenum, MW-32 (mg/L)



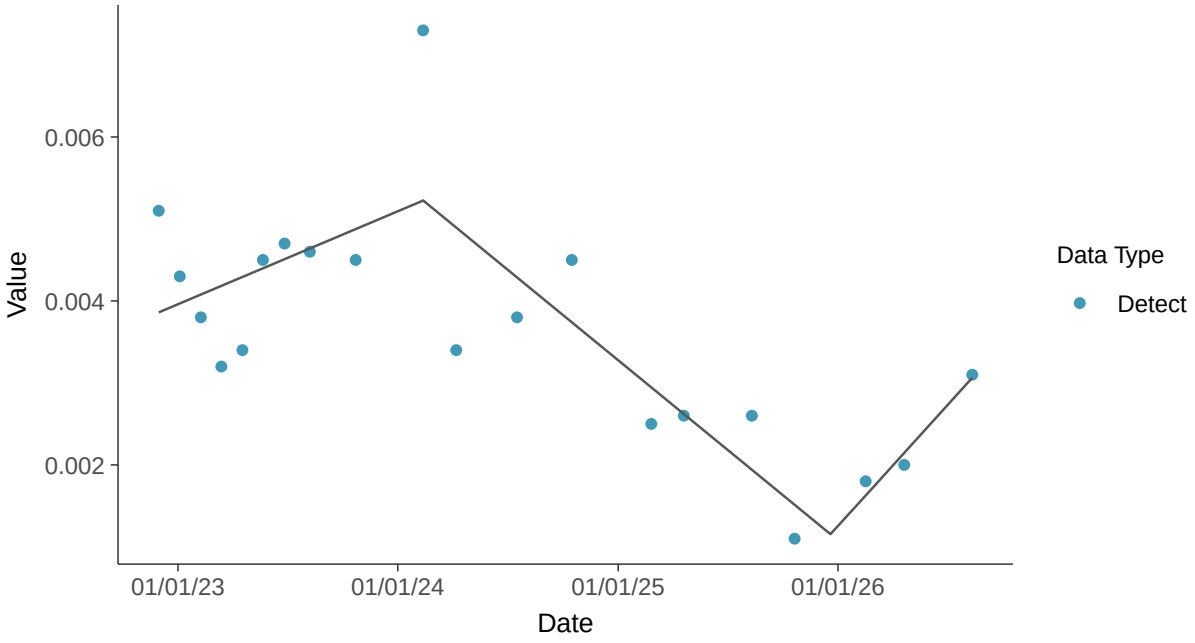
Trend Regression: Piecewise Linear-Linear

Molybdenum, MW-32 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Molybdenum, MW-32 (mg/L)

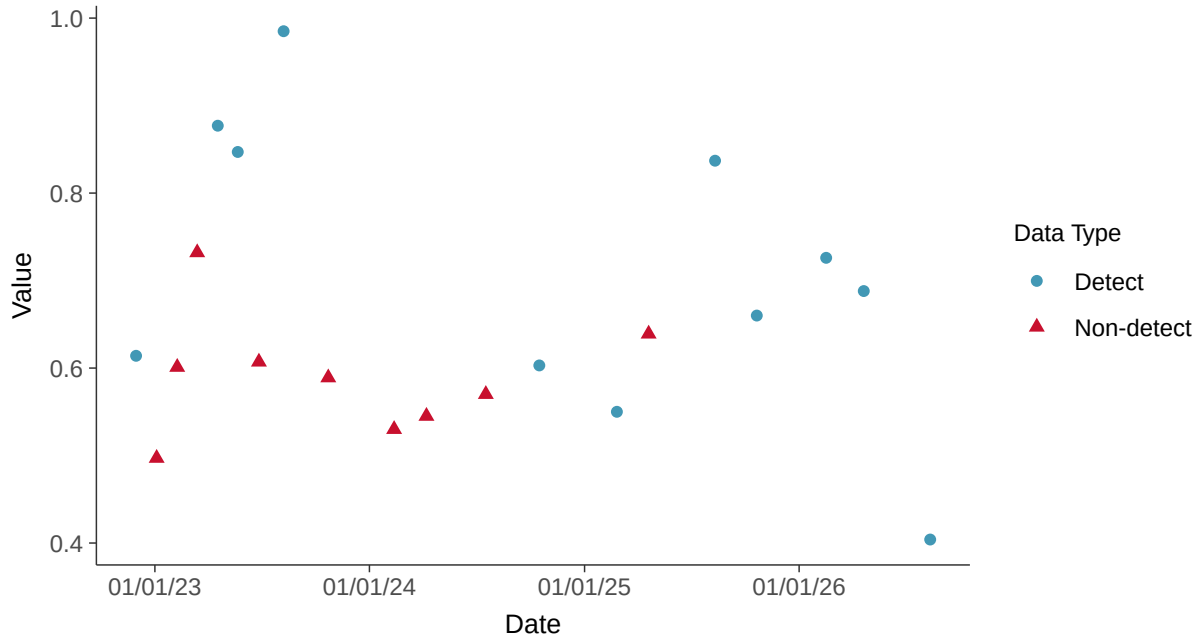


Appendix IV: Radium 226 and 228, MW-32

ID: 42_1_4_121

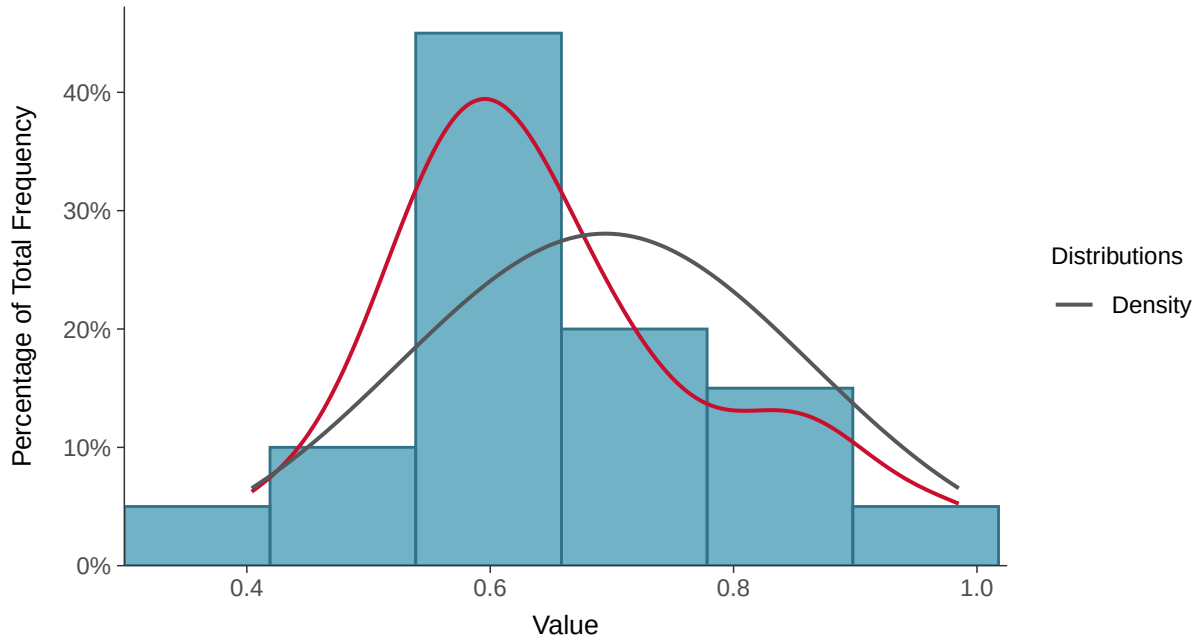
Scatter Plot

Radium 226 and 228, MW-32 (pCi/L)



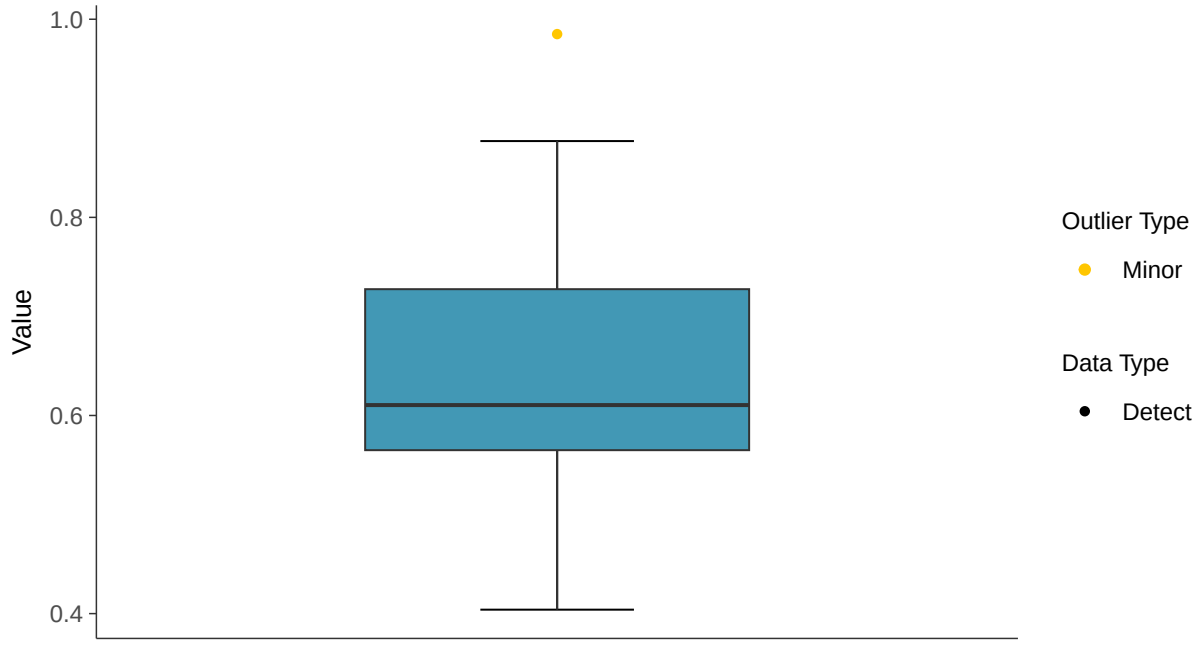
Histogram

Radium 226 and 228, MW-32 (pCi/L)



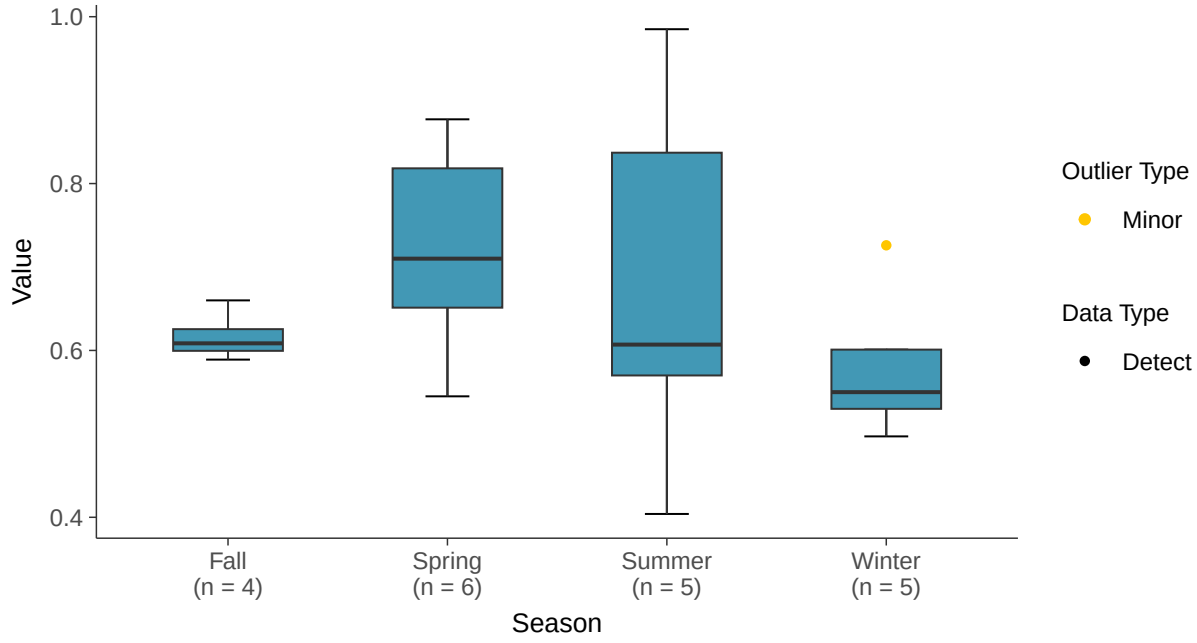
Boxplot

Radium 226 and 228, MW-32 (pCi/L)



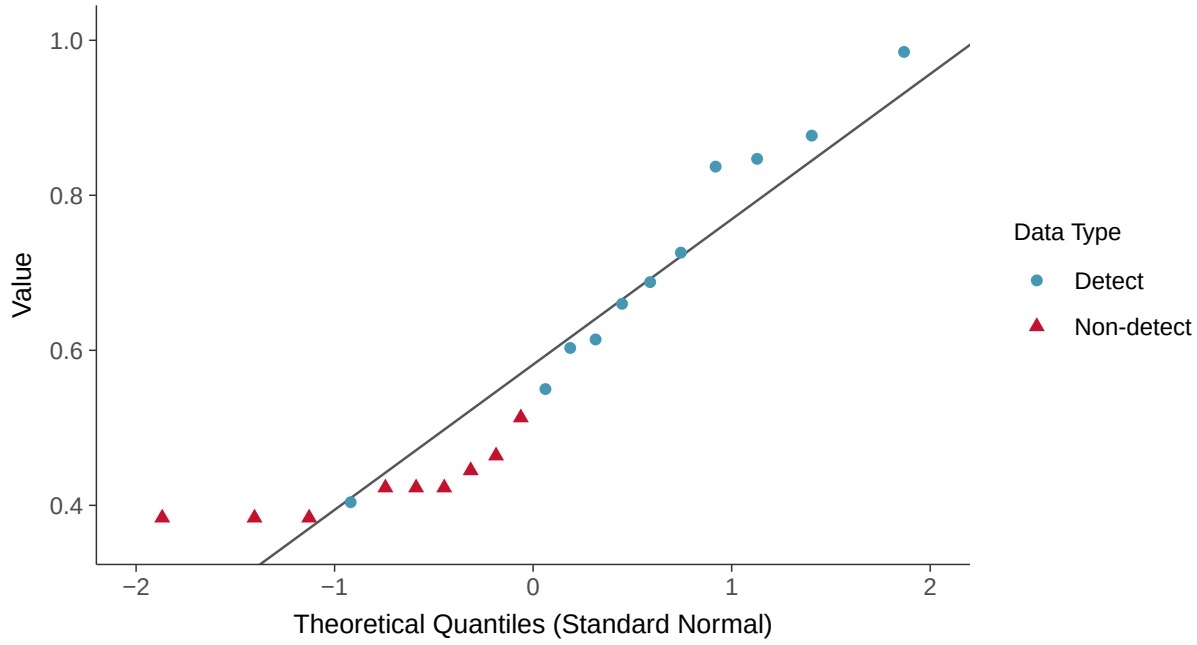
Boxplot by Season

Radium 226 and 228, MW-32 (pCi/L)



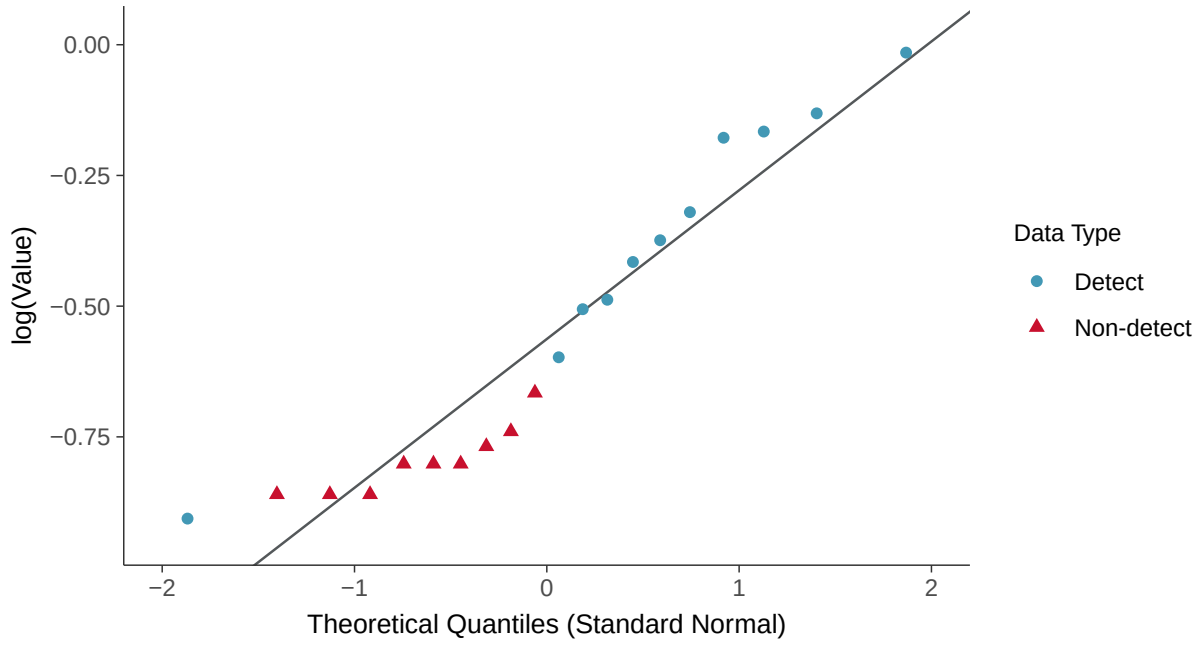
Normal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-32 (pCi/L)



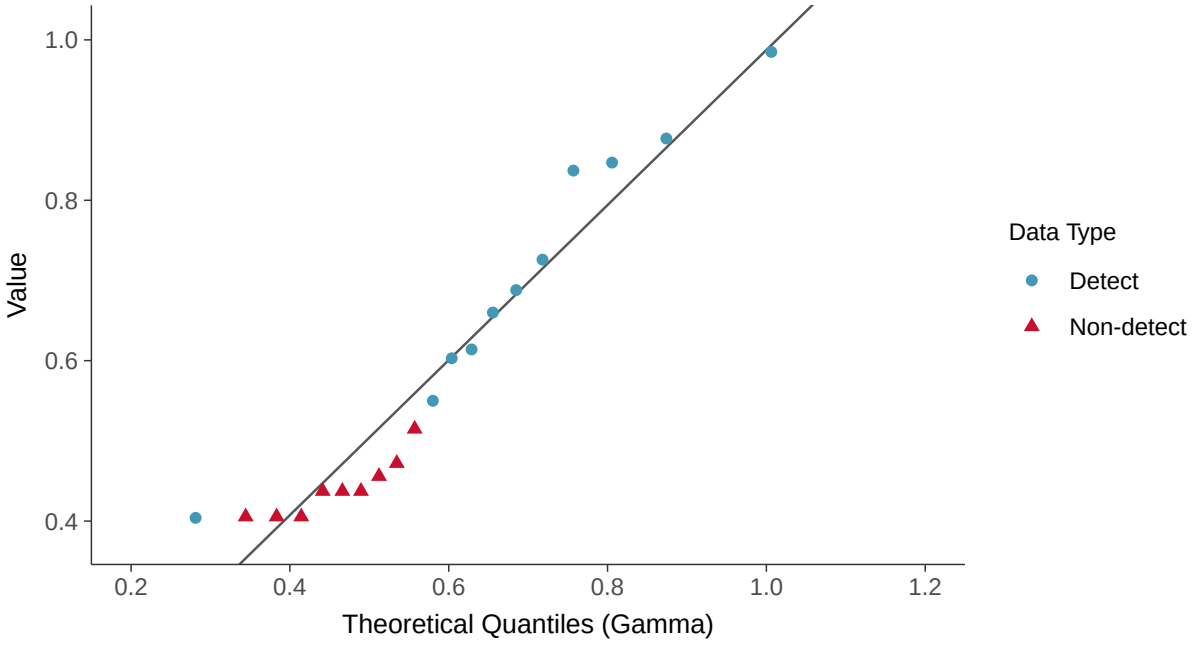
Lognormal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-32 (pCi/L)



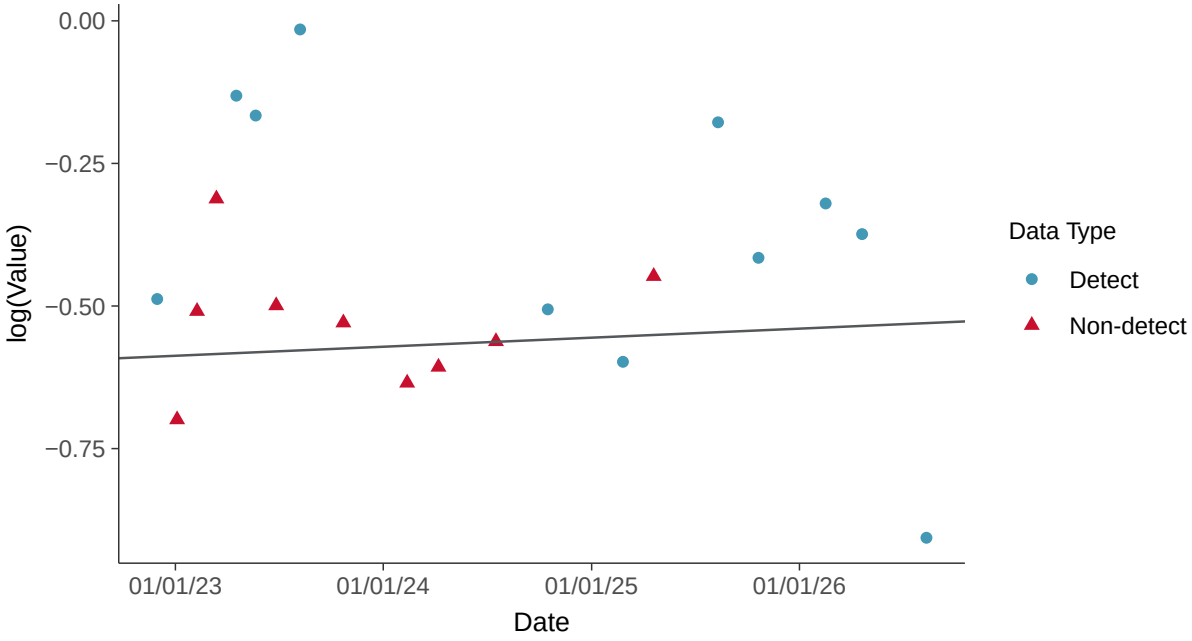
Gamma Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-32 (pCi/L)



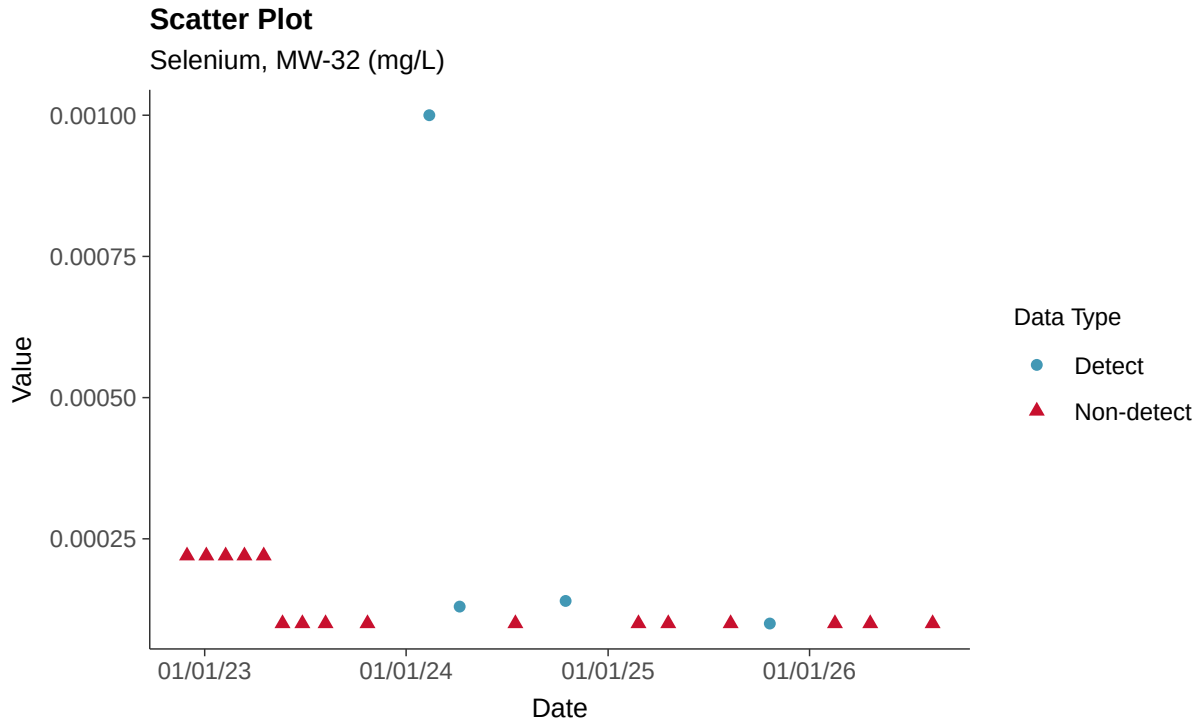
Trend Regression: Lognormal MLE

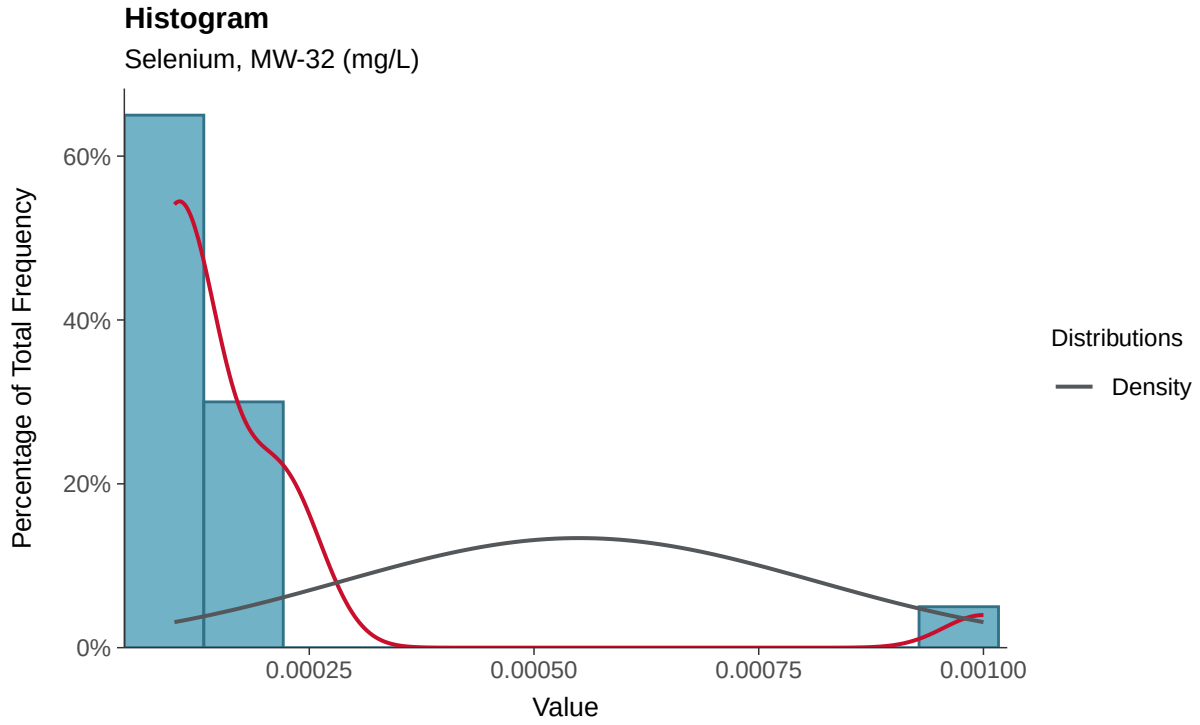
Radium 226 and 228, MW-32 (pCi/L)



Appendix IV: Selenium, MW-32

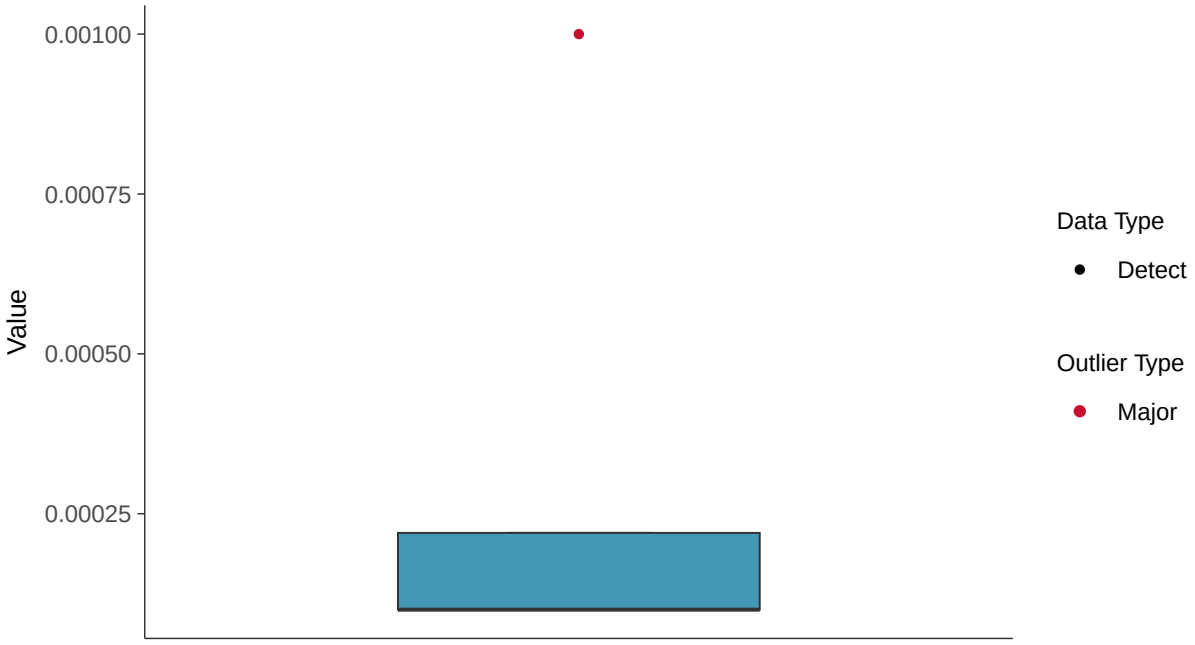
ID: 42_1_4_122





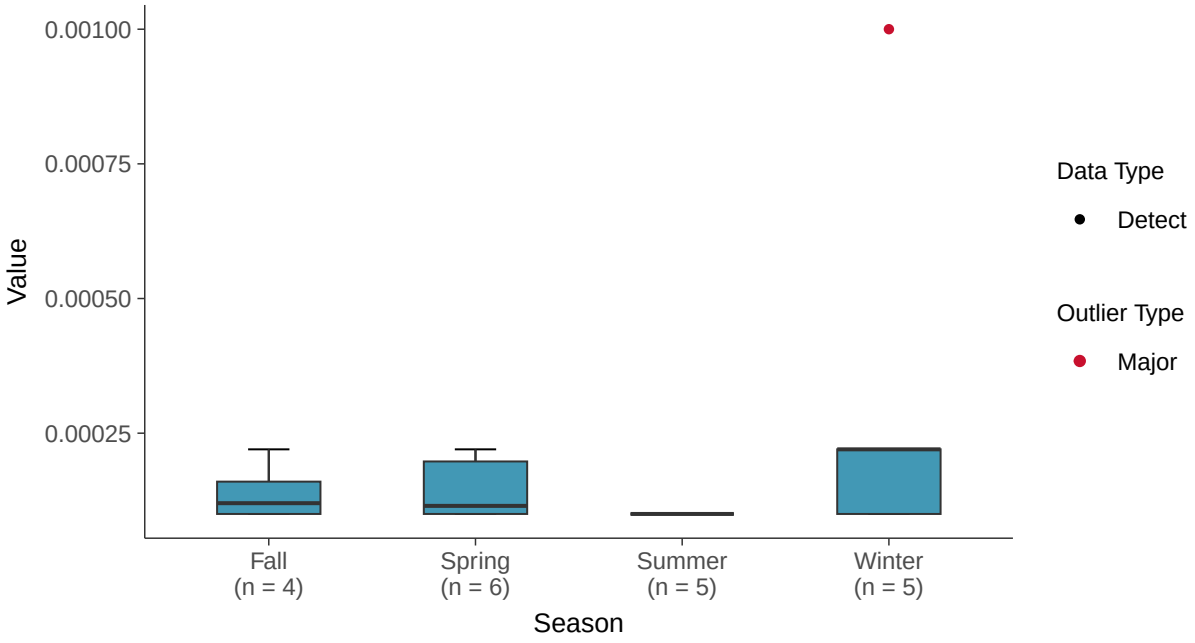
Boxplot

Selenium, MW-32 (mg/L)



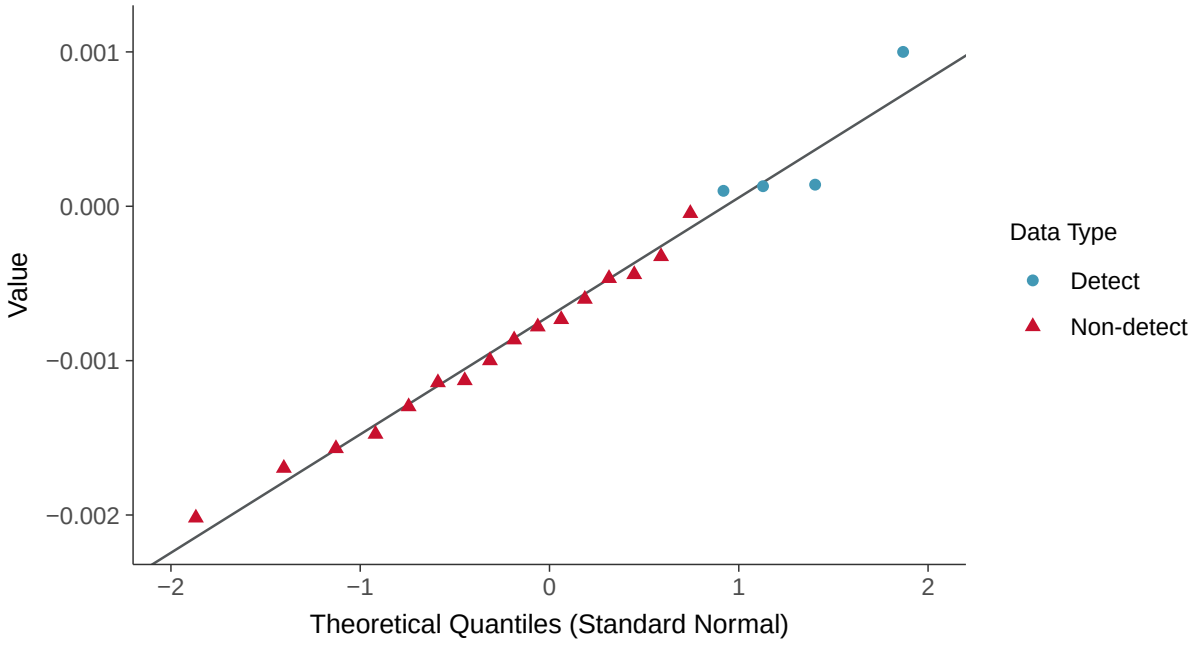
Boxplot by Season

Selenium, MW-32 (mg/L)



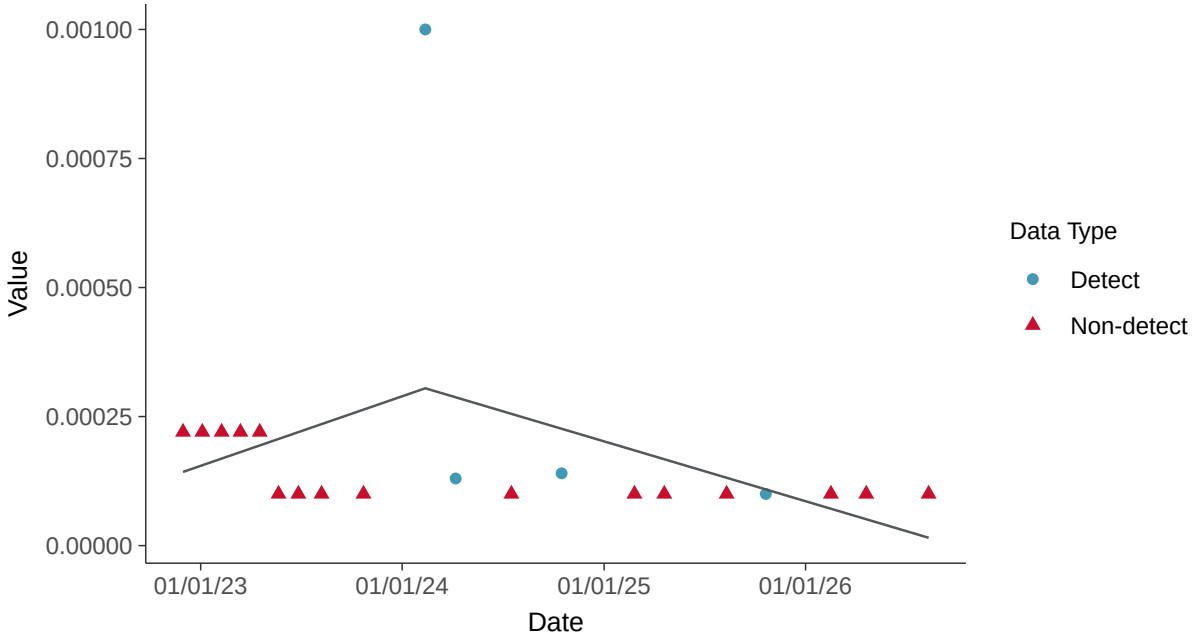
Normal Q-Q plot using ROS Imputed Estimates

Selenium, MW-32 (mg/L)



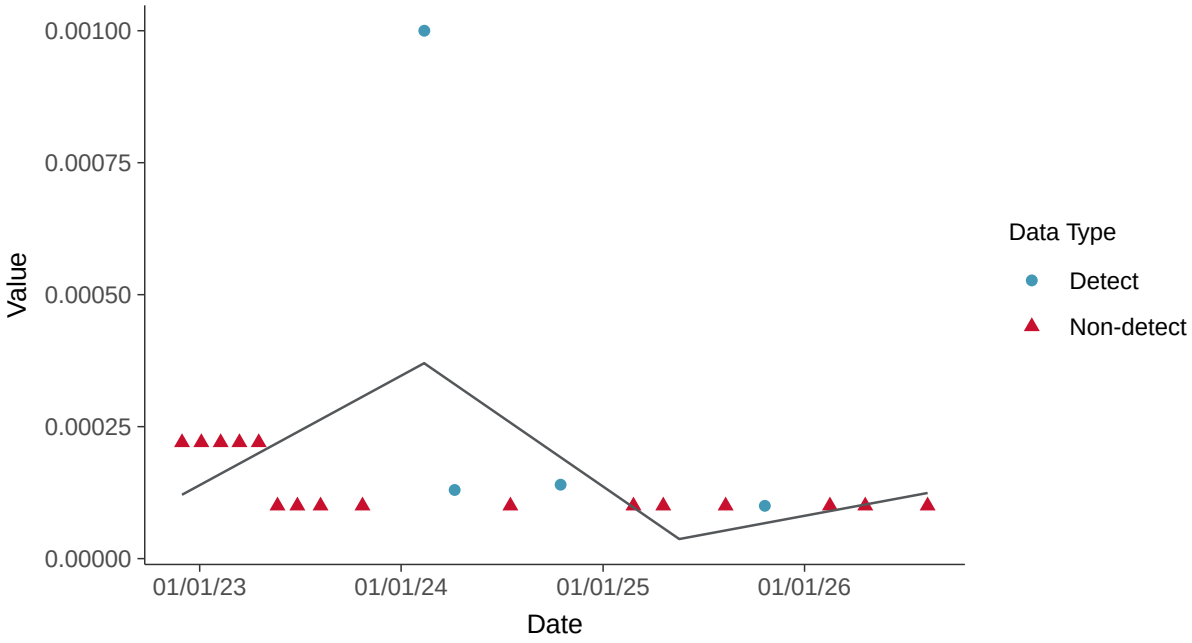
Trend Regression: Piecewise Linear-Linear

Selenium, MW-32 (mg/L)



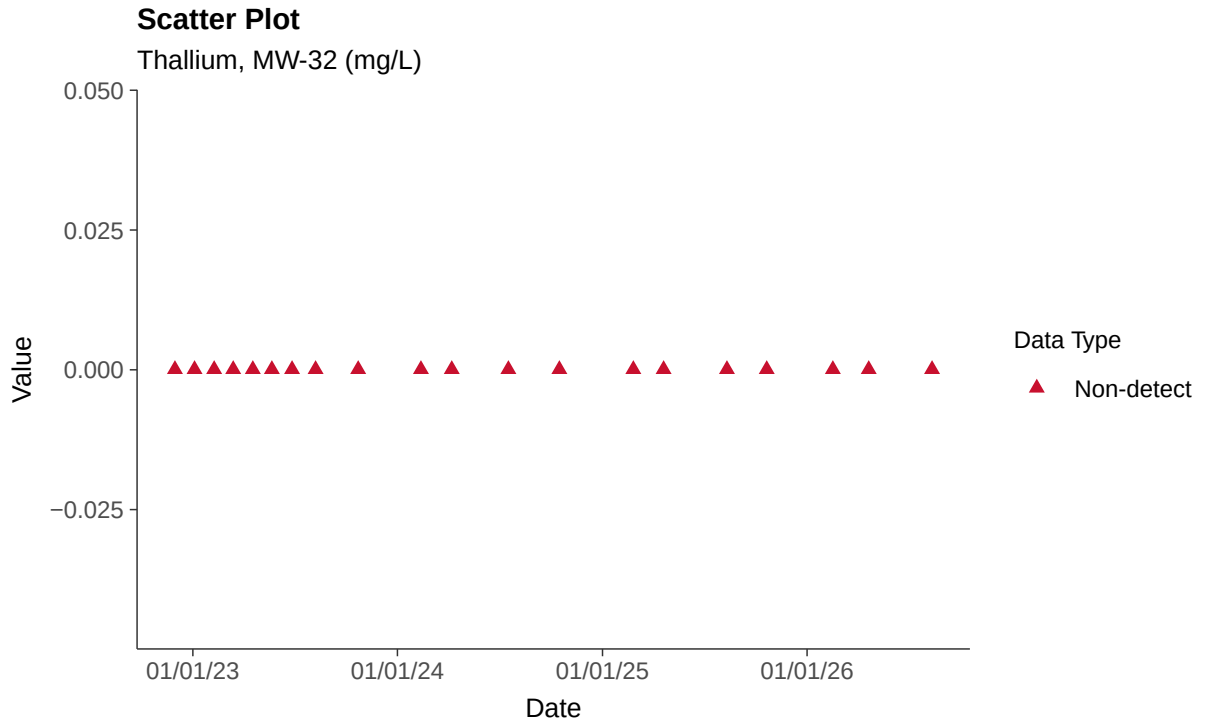
Trend Regression: Piecewise Linear-Linear-Linear

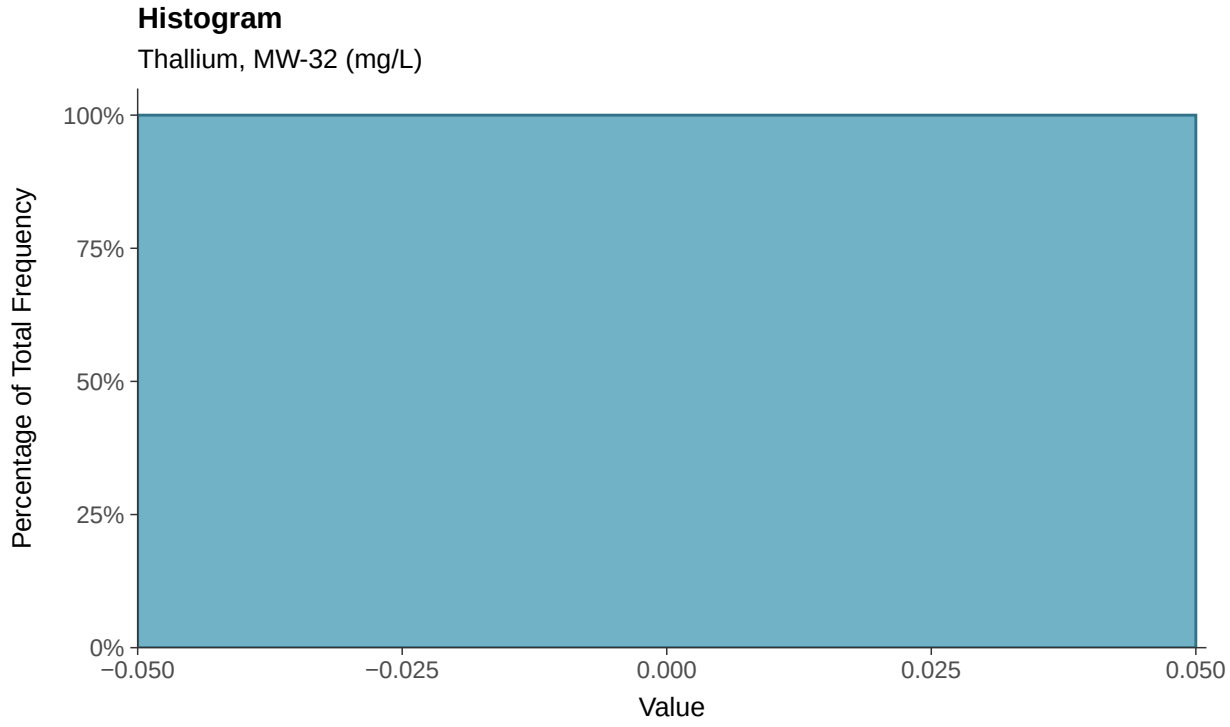
Selenium, MW-32 (mg/L)



Appendix IV: Thallium, MW-32

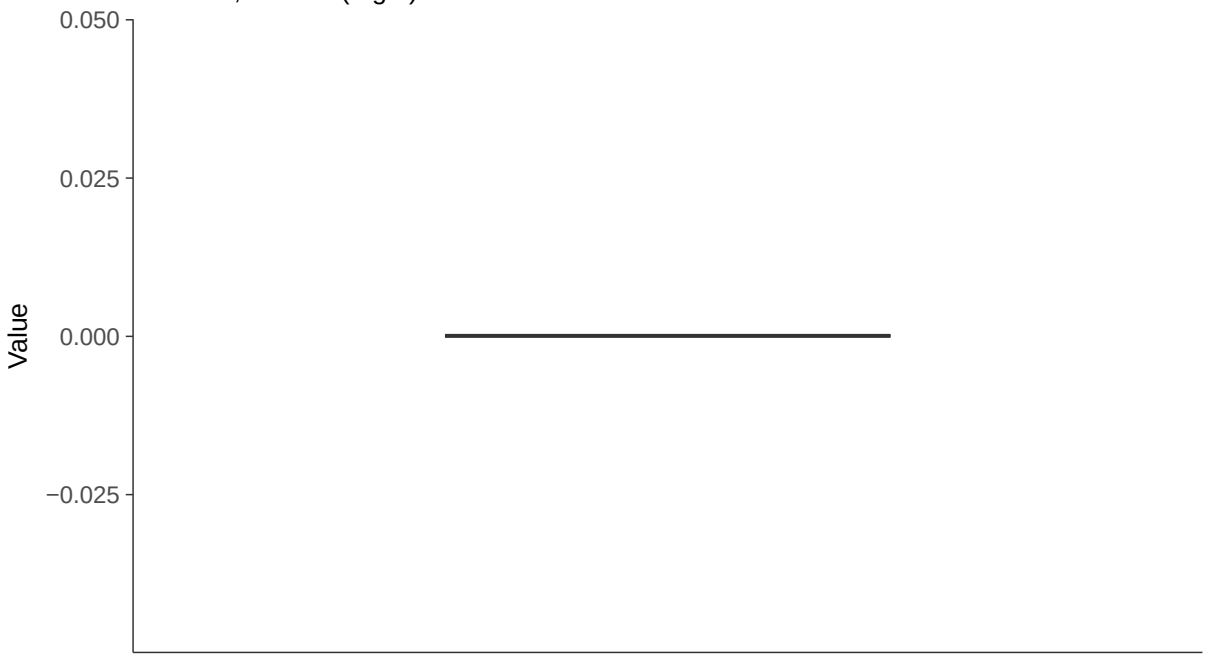
ID: 42_1_4_125





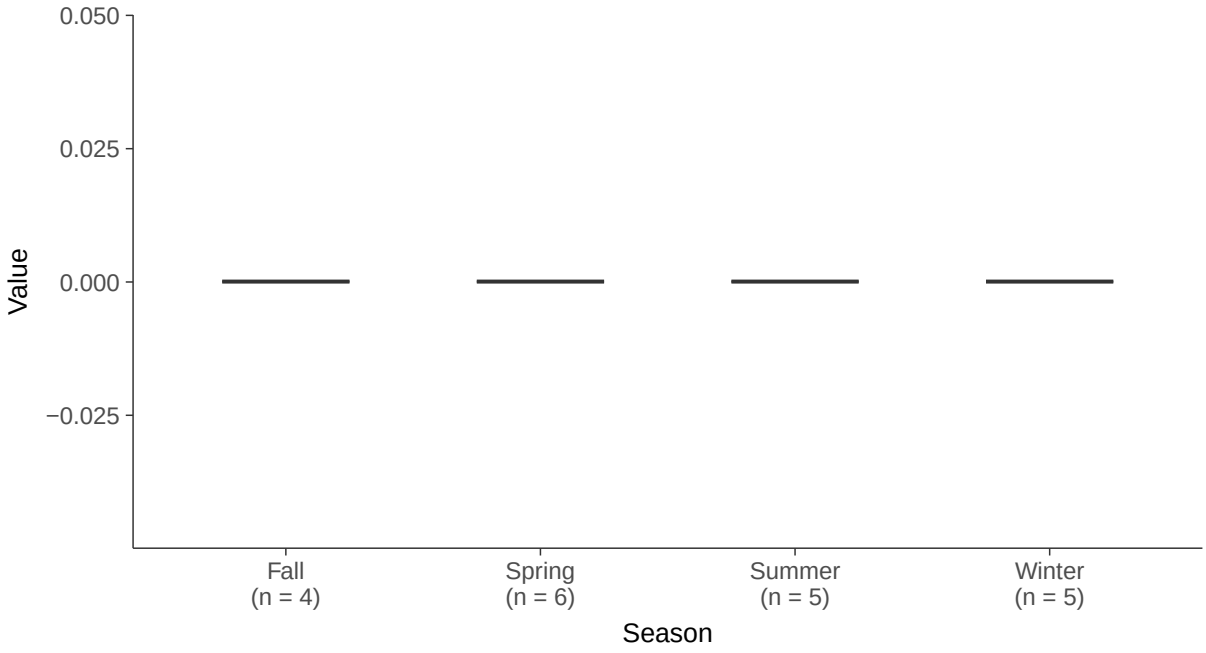
Boxplot

Thallium, MW-32 (mg/L)



Boxplot by Season

Thallium, MW-32 (mg/L)

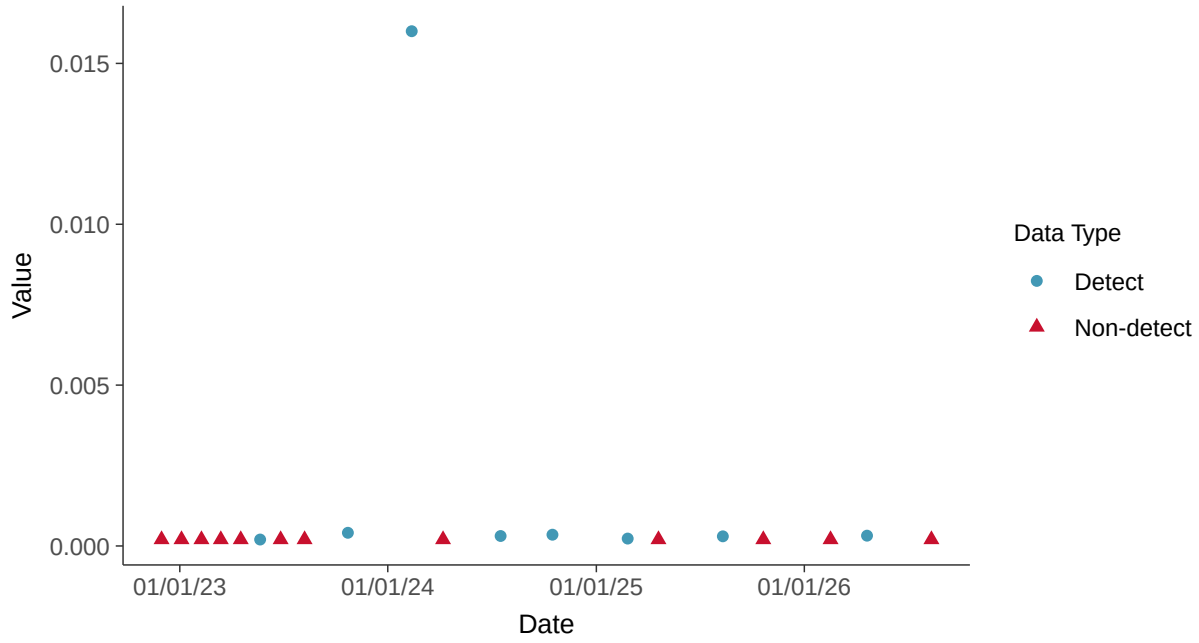


Part 115: Copper, MW-32

ID: 42_1_5_111

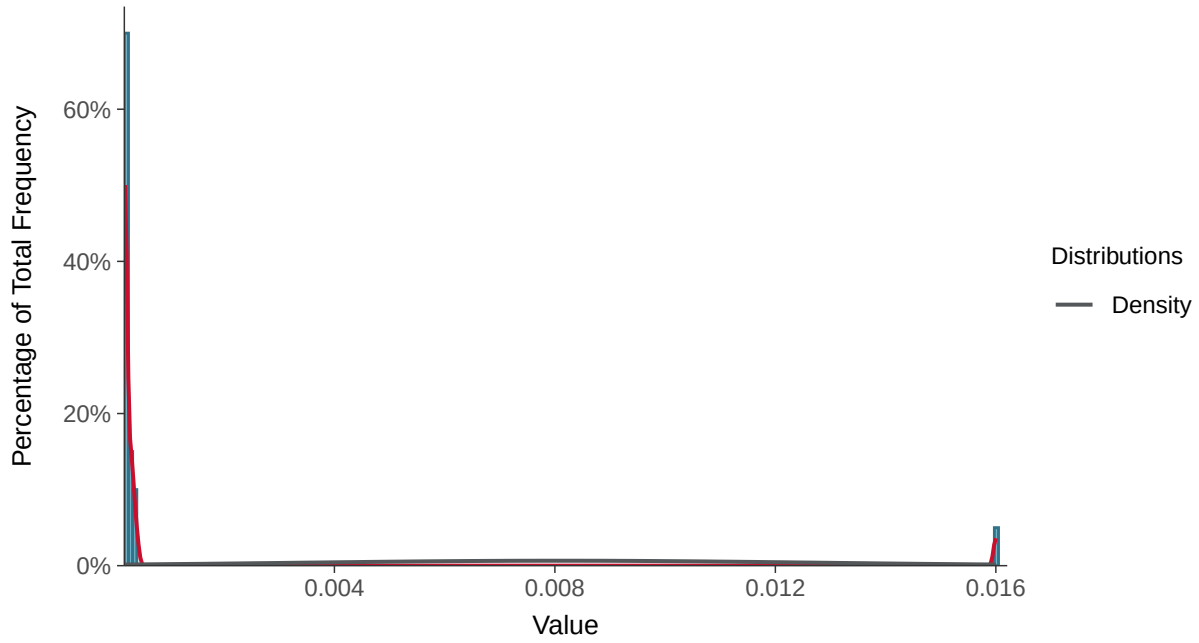
Scatter Plot

Copper, MW-32 (mg/L)



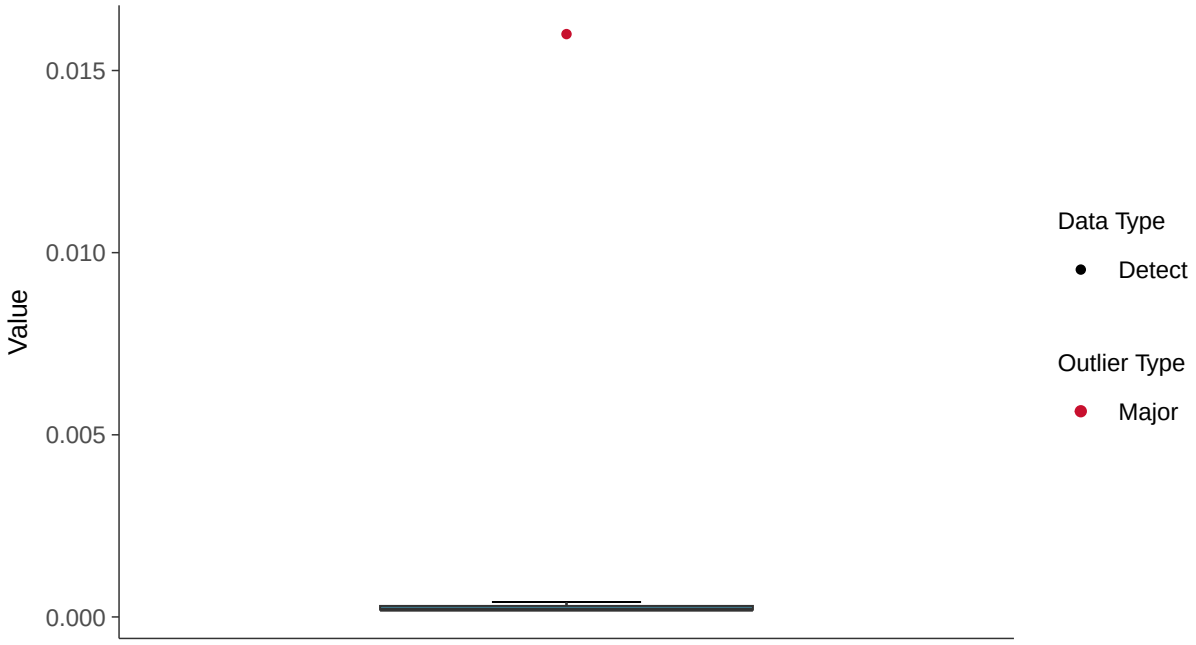
Histogram

Copper, MW-32 (mg/L)



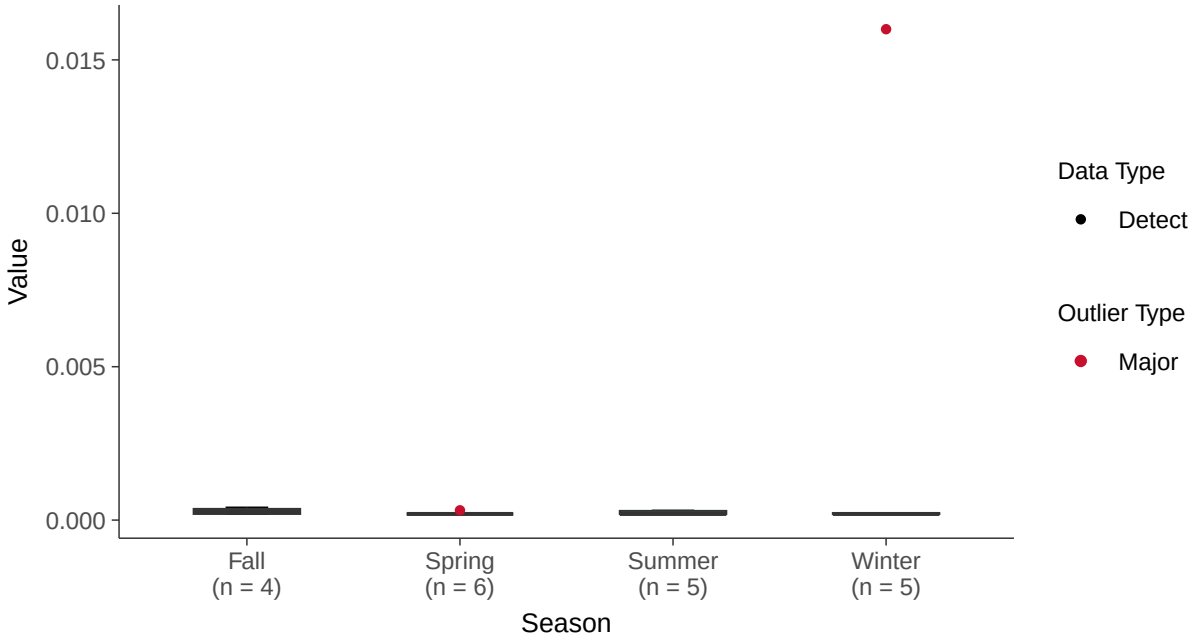
Boxplot

Copper, MW-32 (mg/L)



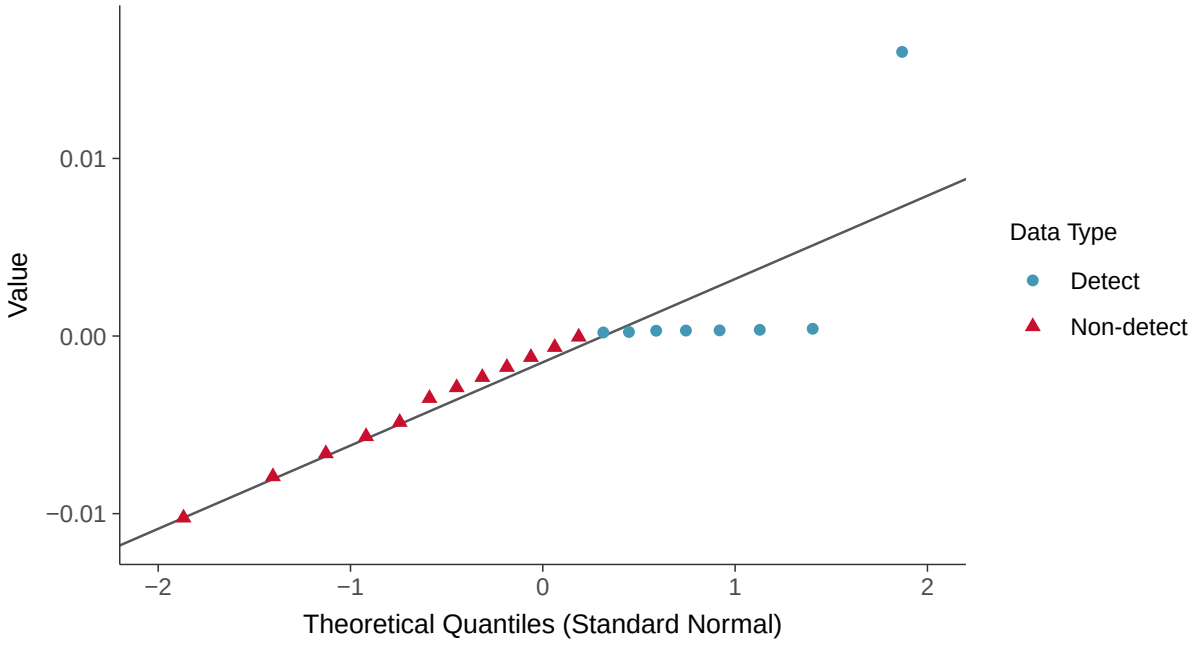
Boxplot by Season

Copper, MW-32 (mg/L)



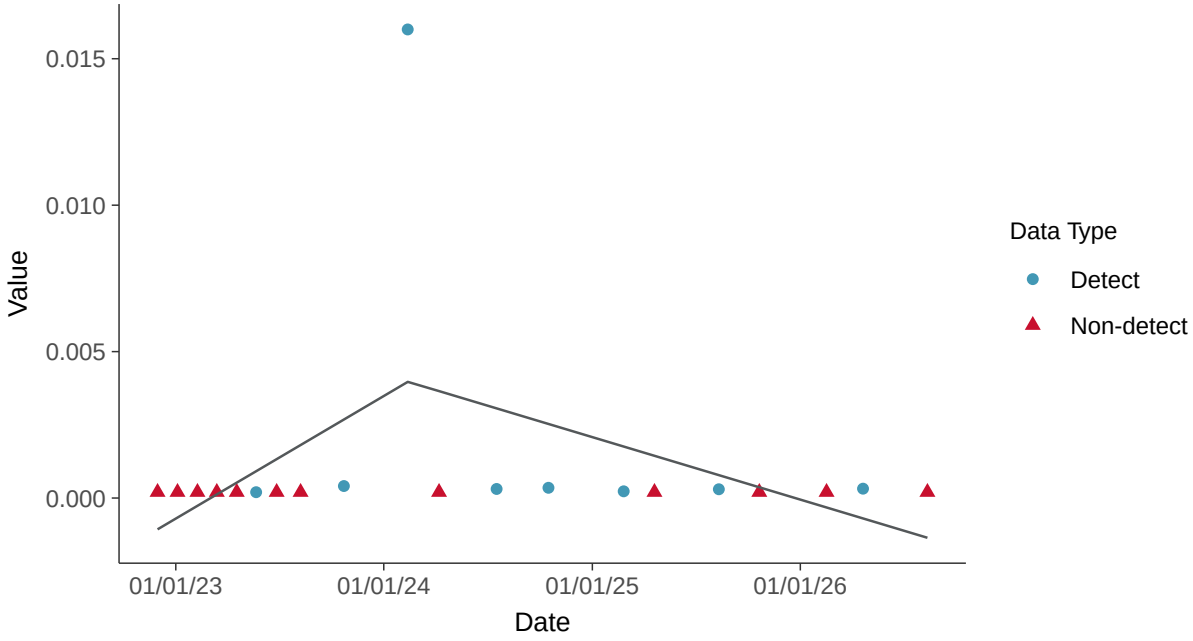
Normal Q-Q plot using ROS Imputed Estimates

Copper, MW-32 (mg/L)



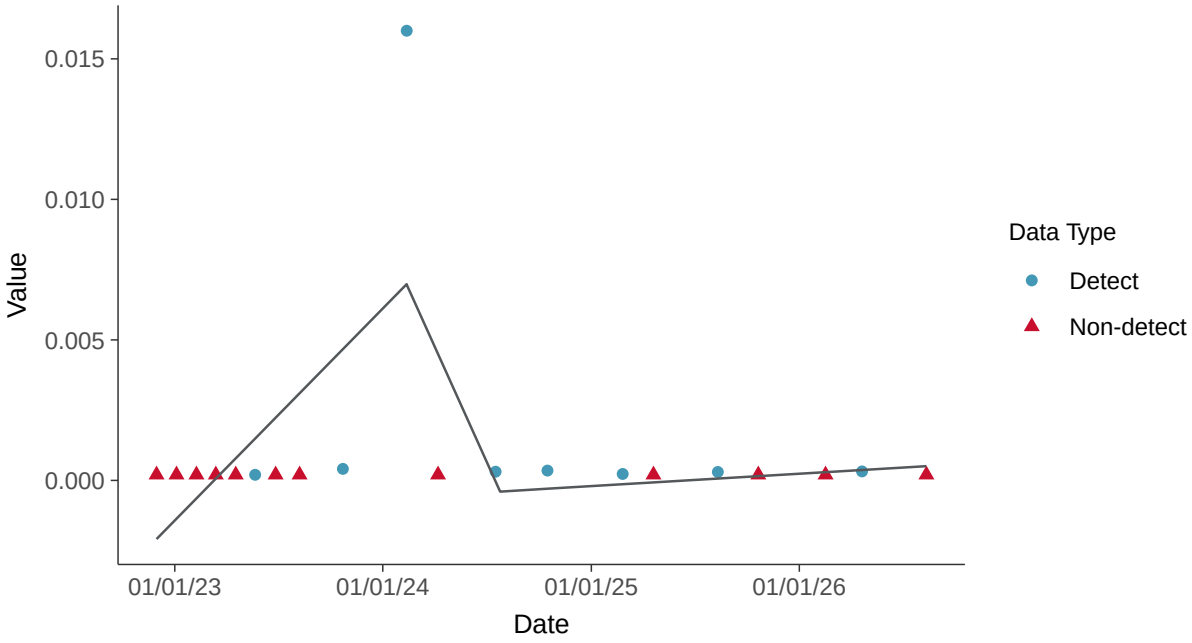
Trend Regression: Piecewise Linear-Linear

Copper, MW-32 (mg/L)



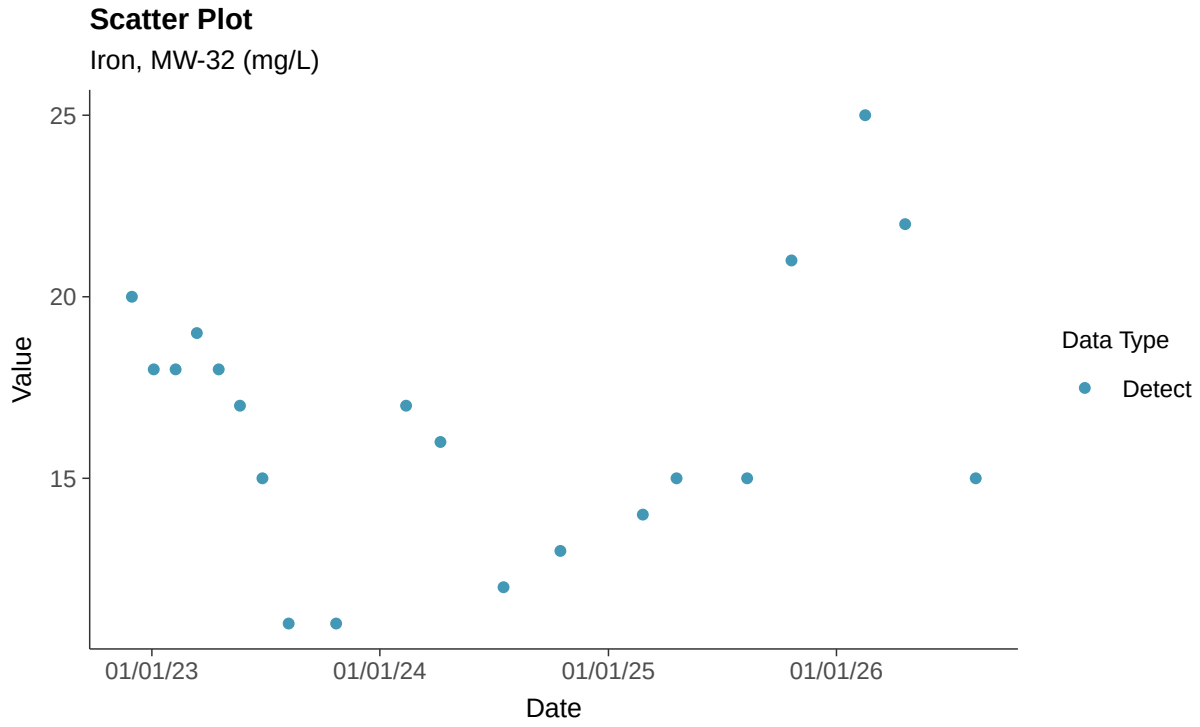
Trend Regression: Piecewise Linear-Linear-Linear

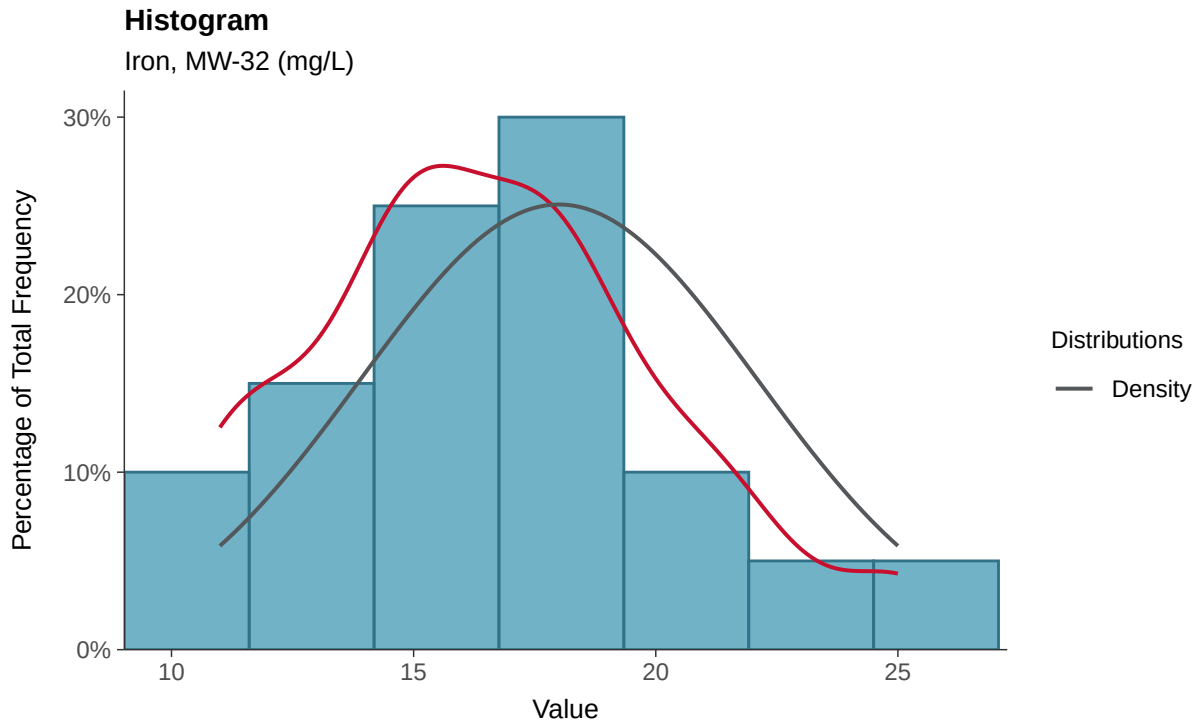
Copper, MW-32 (mg/L)



Part 115: Iron, MW-32

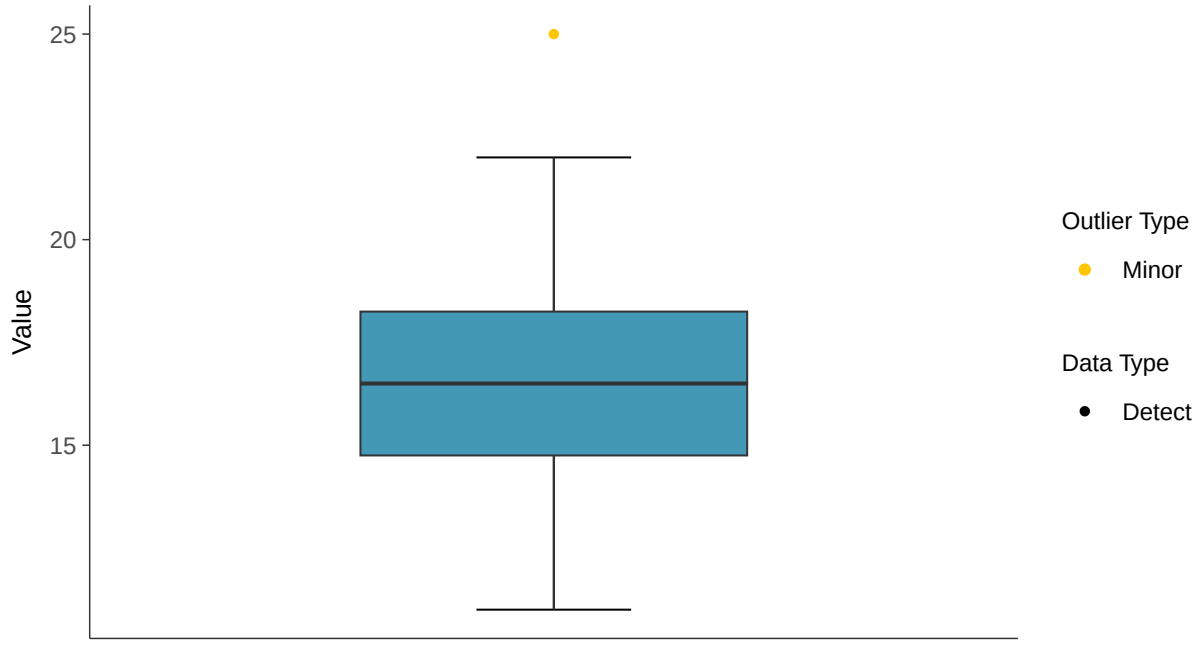
ID: 42_1_5_114





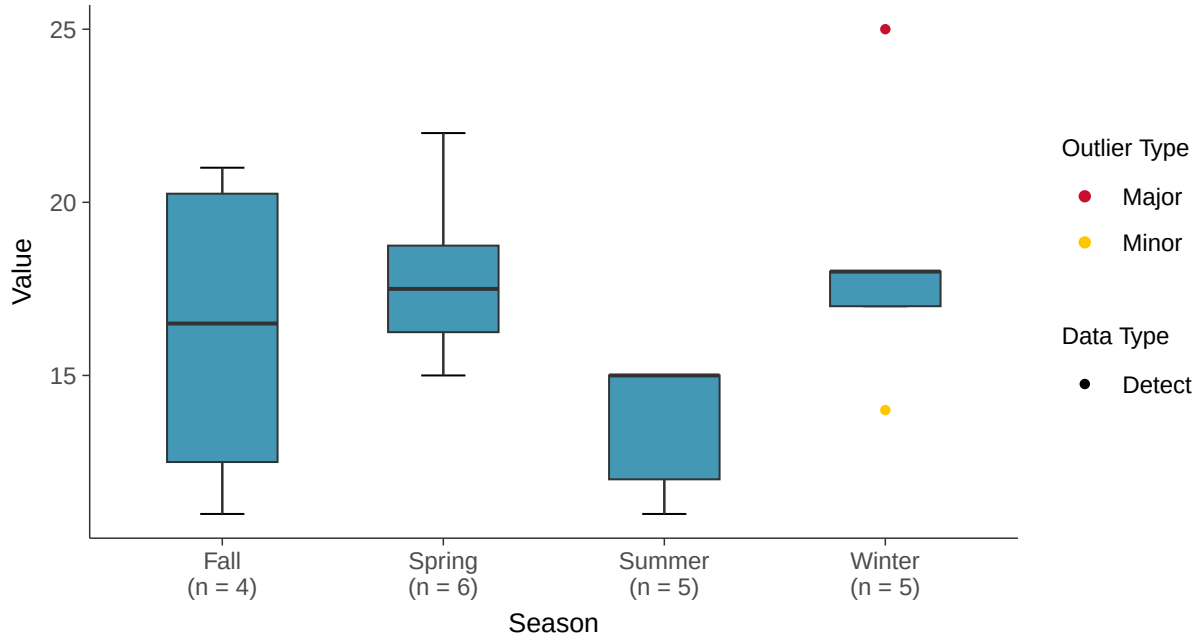
Boxplot

Iron, MW-32 (mg/L)



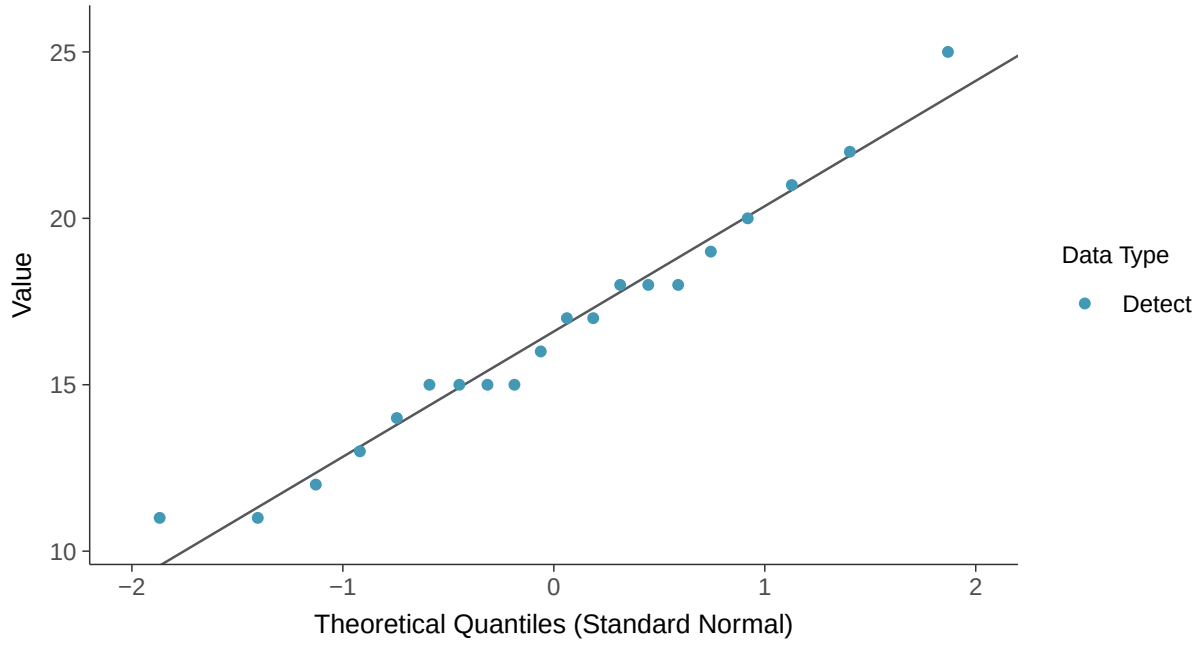
Boxplot by Season

Iron, MW-32 (mg/L)



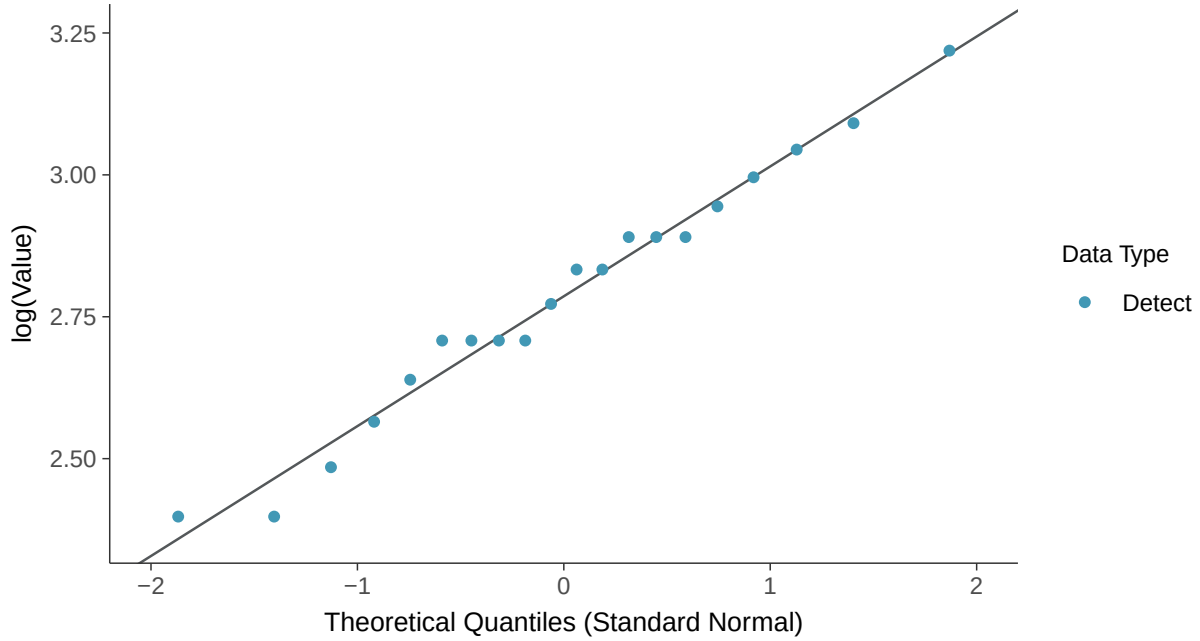
Normal Q-Q plot

Iron, MW-32 (mg/L)



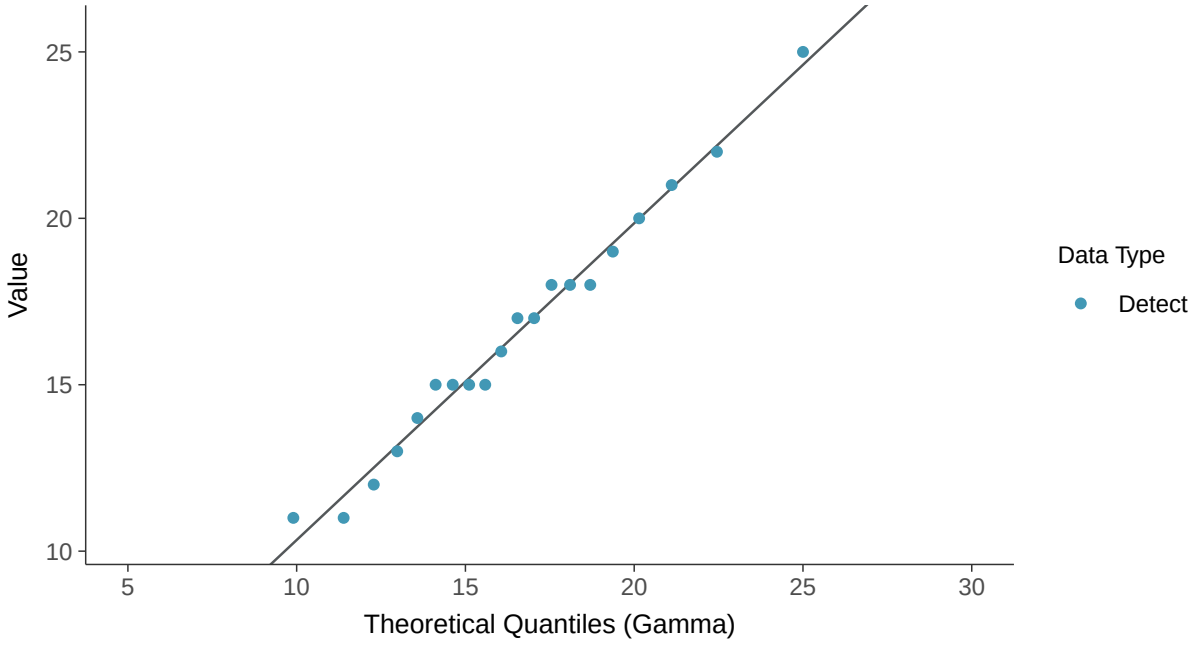
Lognormal Q-Q plot

Iron, MW-32 (mg/L)



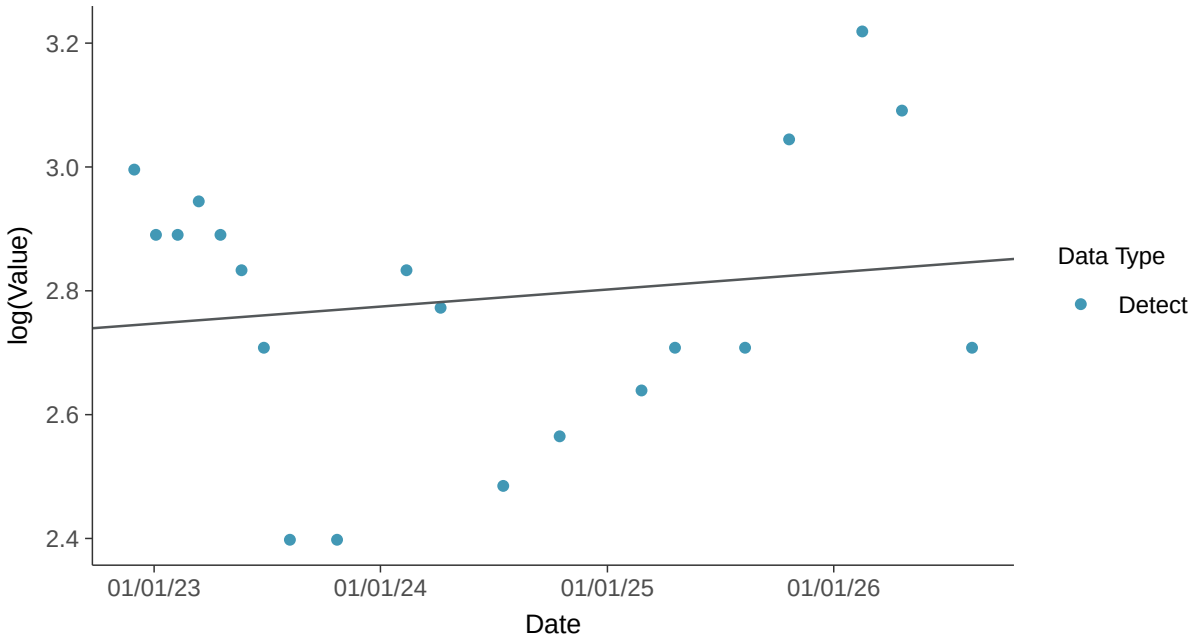
Gamma Q-Q plot

Iron, MW-32 (mg/L)



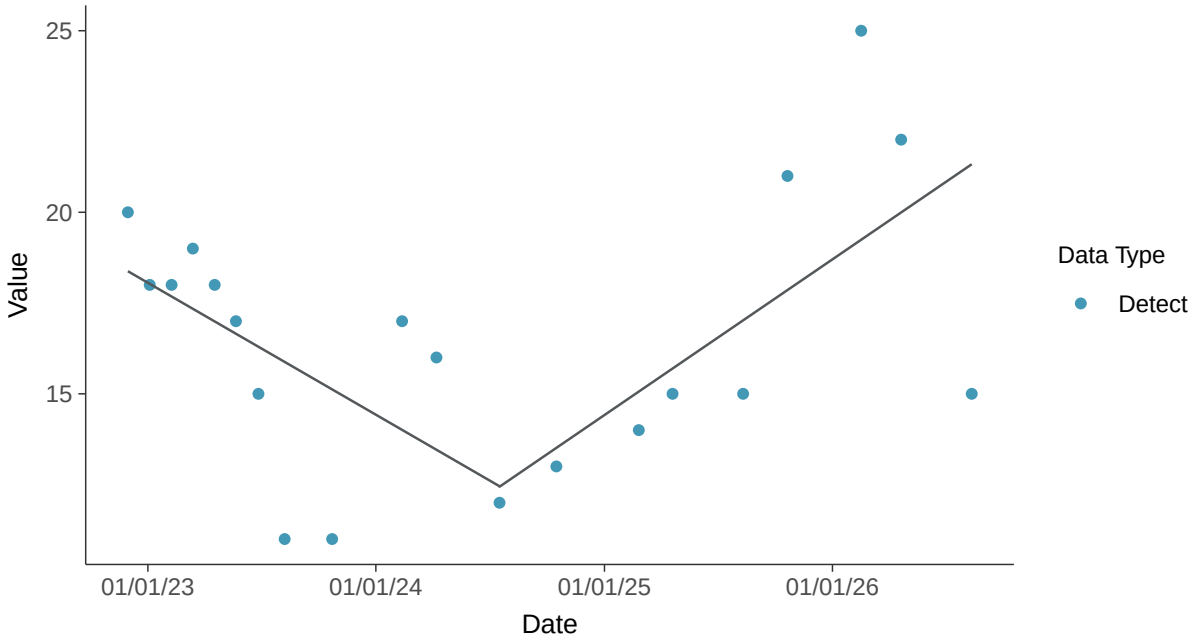
Trend Regression: Lognormal MLE

Iron, MW-32 (mg/L)



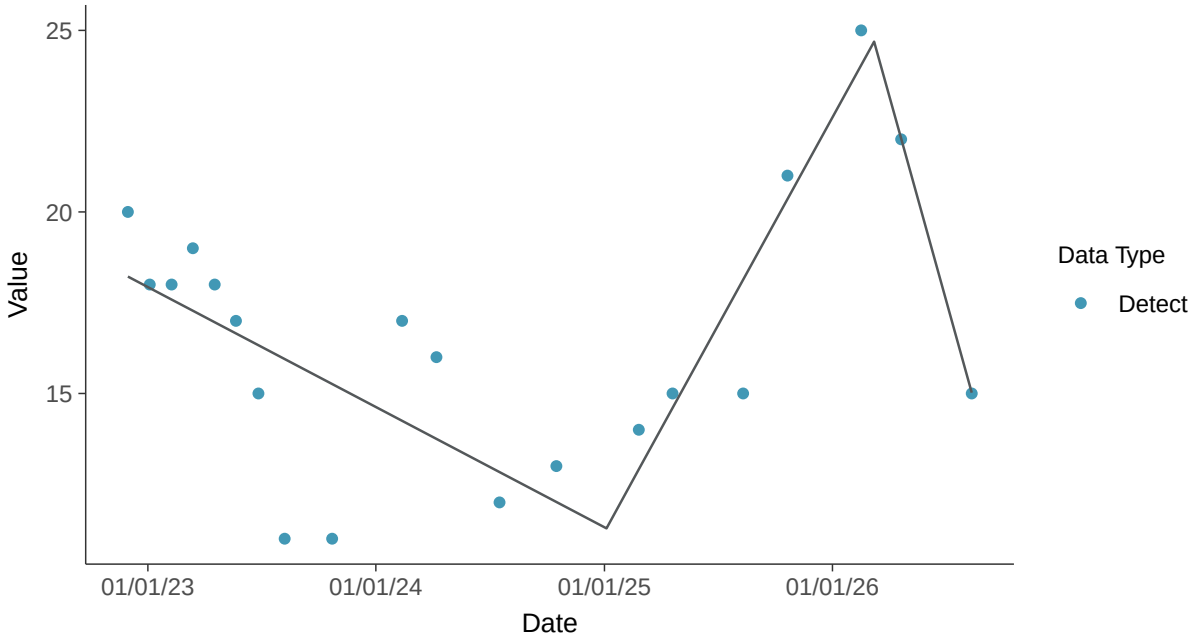
Trend Regression: Piecewise Linear-Linear

Iron, MW-32 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Iron, MW-32 (mg/L)

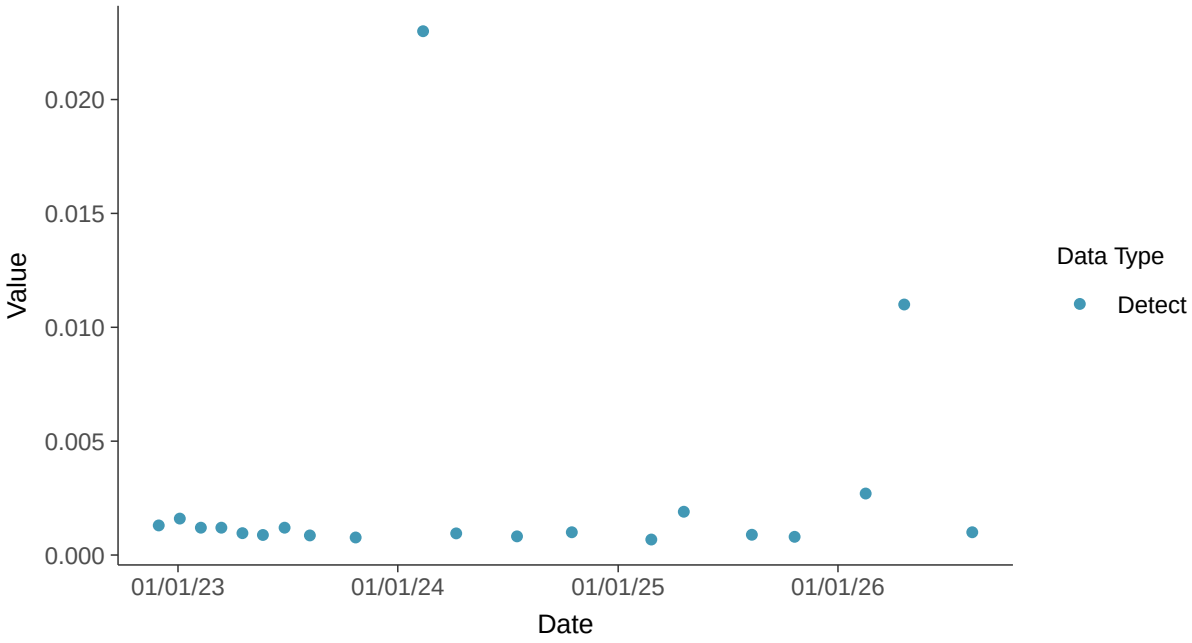


Part 115: Nickel, MW-32

ID: 42_1_5_119

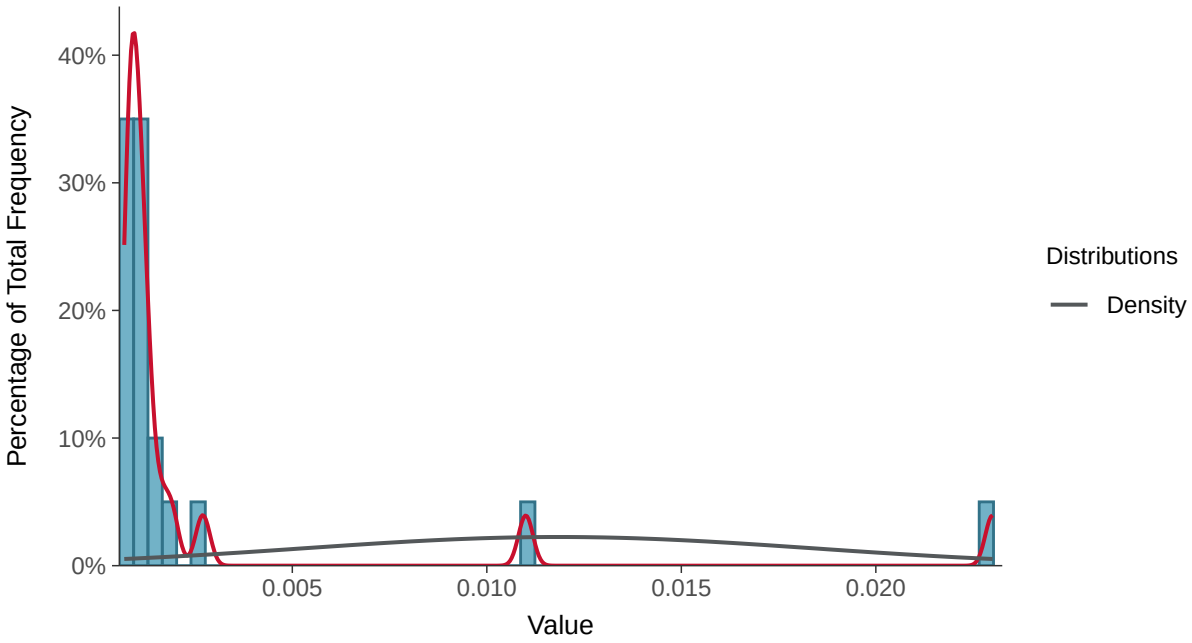
Scatter Plot

Nickel, MW-32 (mg/L)



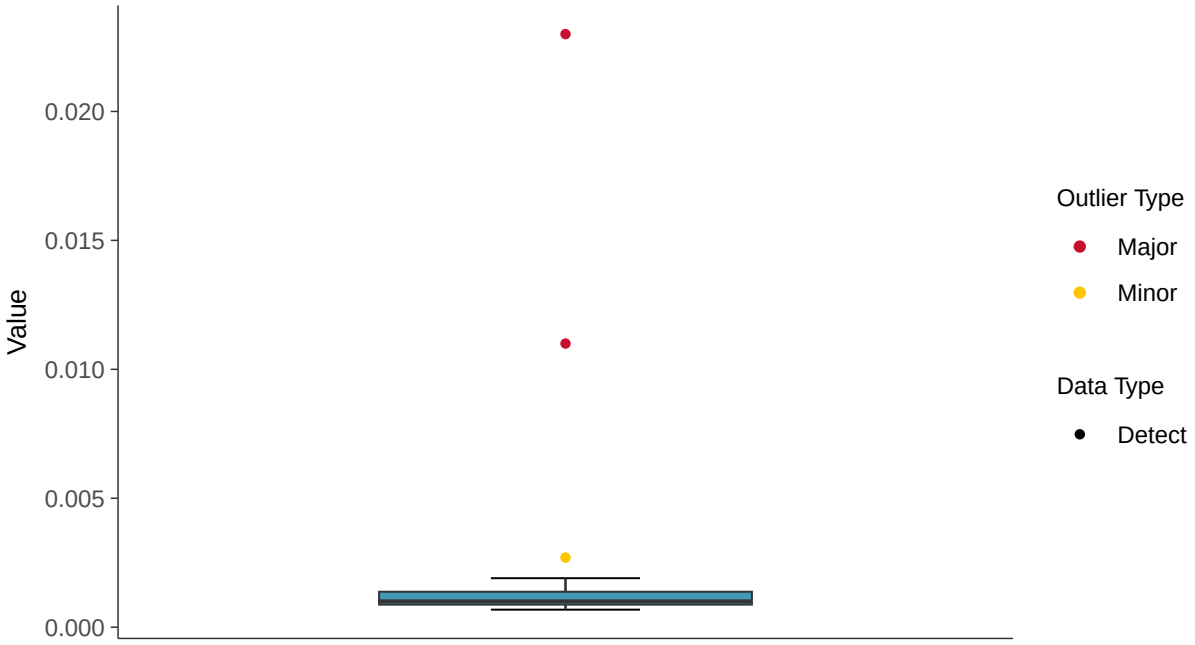
Histogram

Nickel, MW-32 (mg/L)



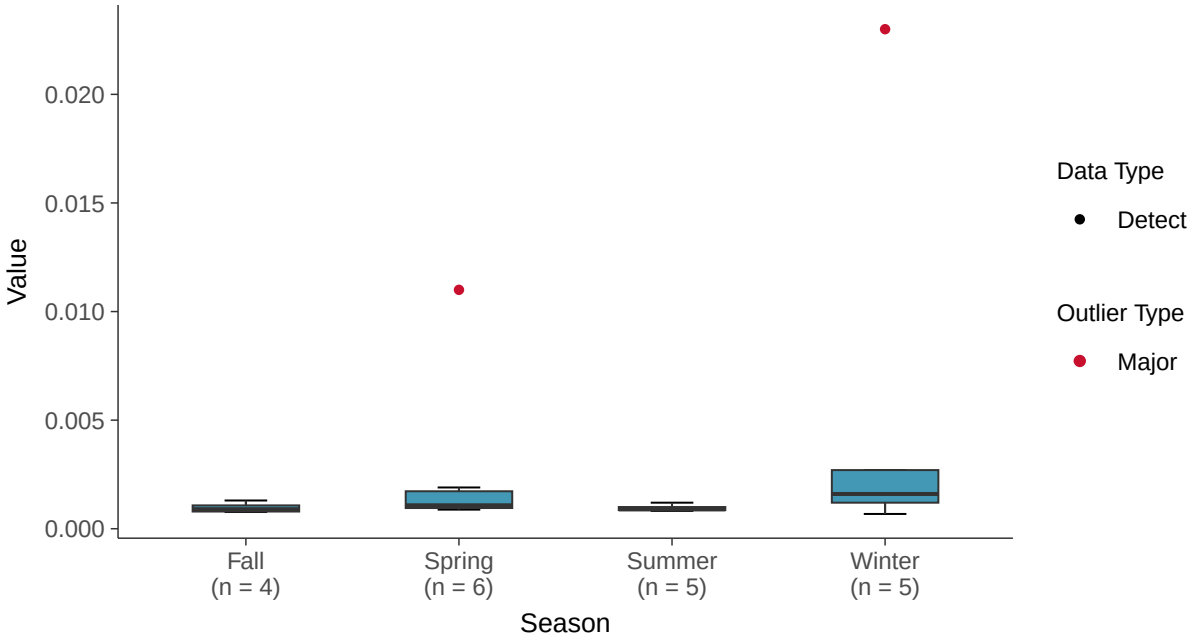
Boxplot

Nickel, MW-32 (mg/L)



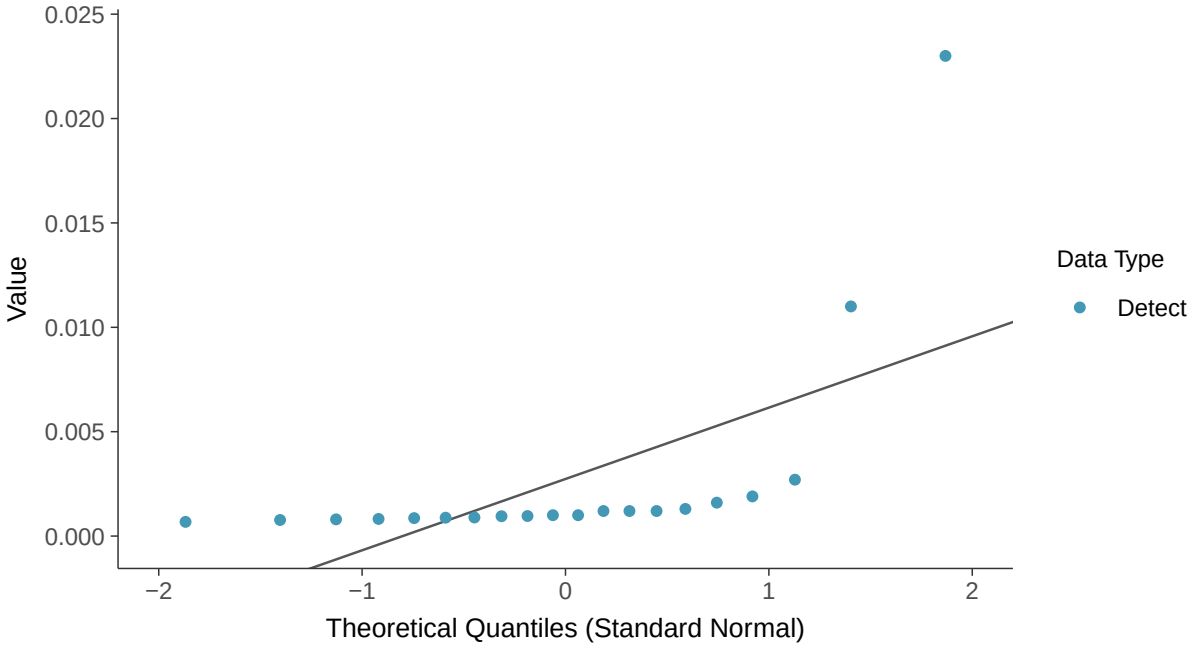
Boxplot by Season

Nickel, MW-32 (mg/L)



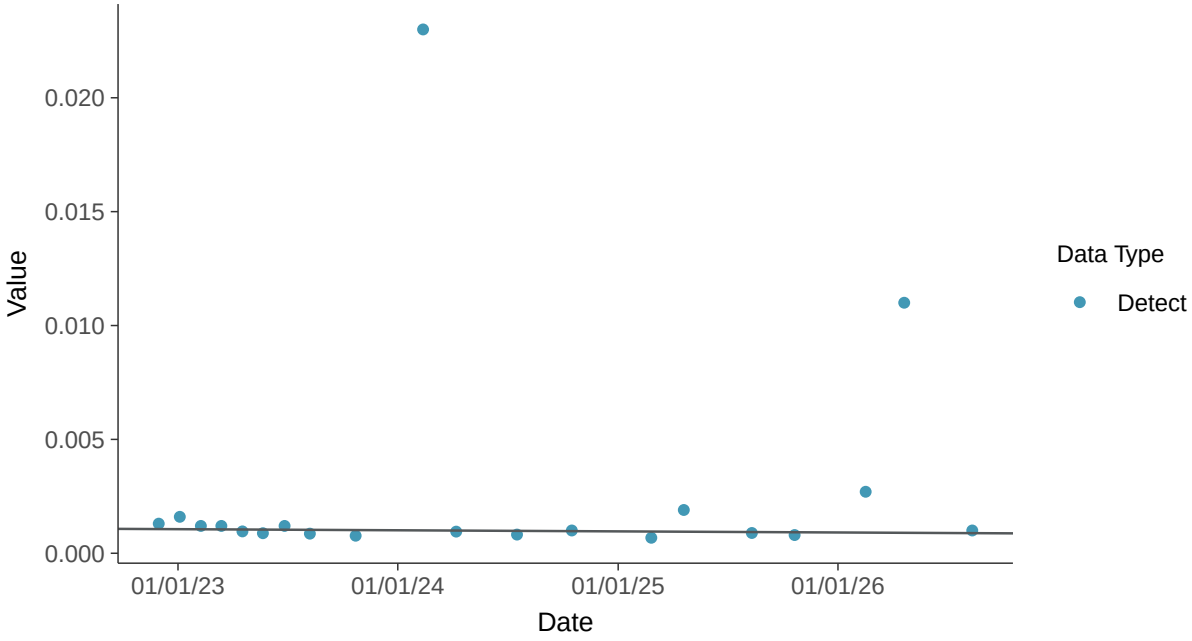
Normal Q-Q plot

Nickel, MW-32 (mg/L)



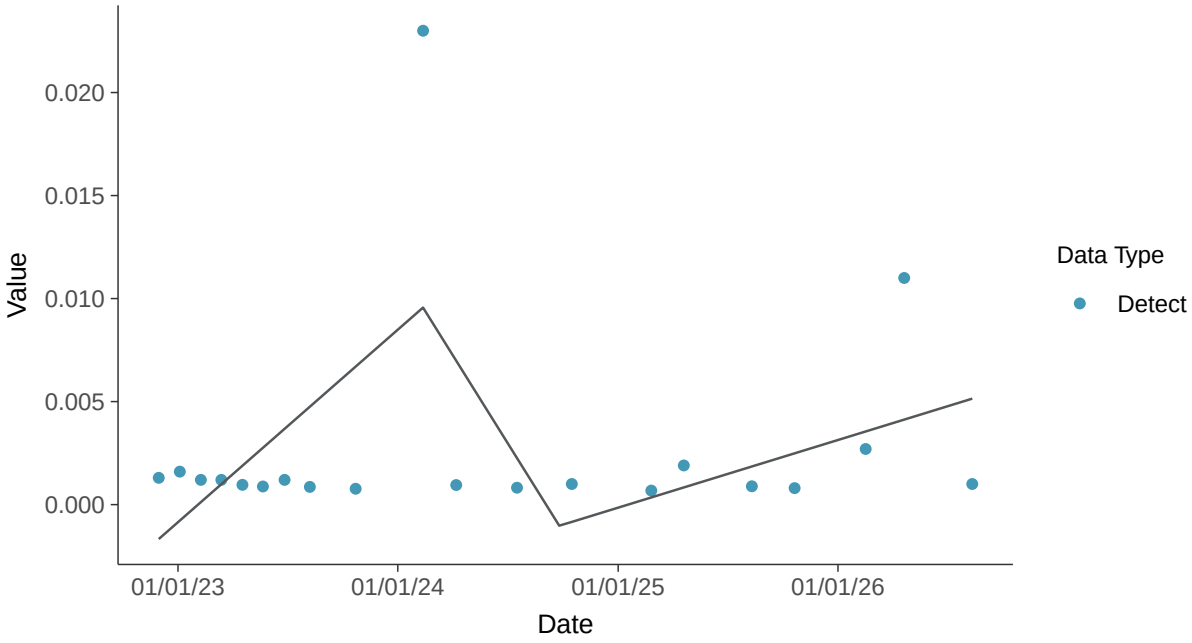
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Nickel, MW-32 (mg/L)



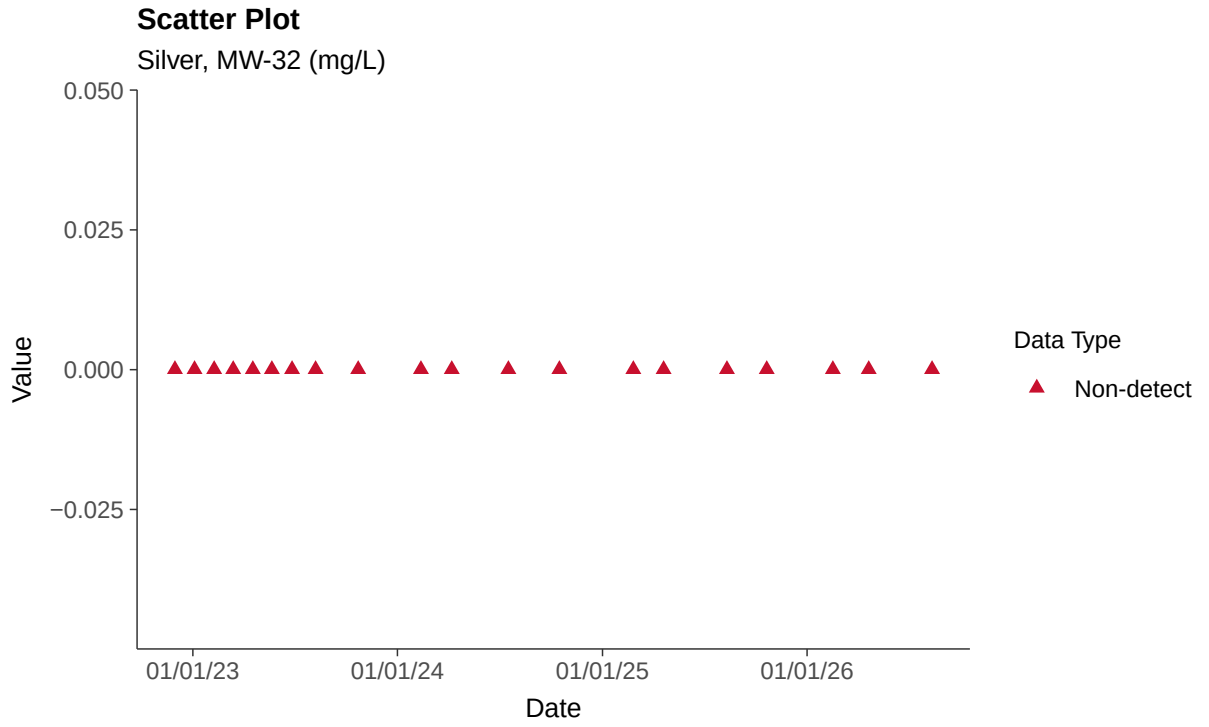
Trend Regression: Piecewise Linear-Linear-Linear

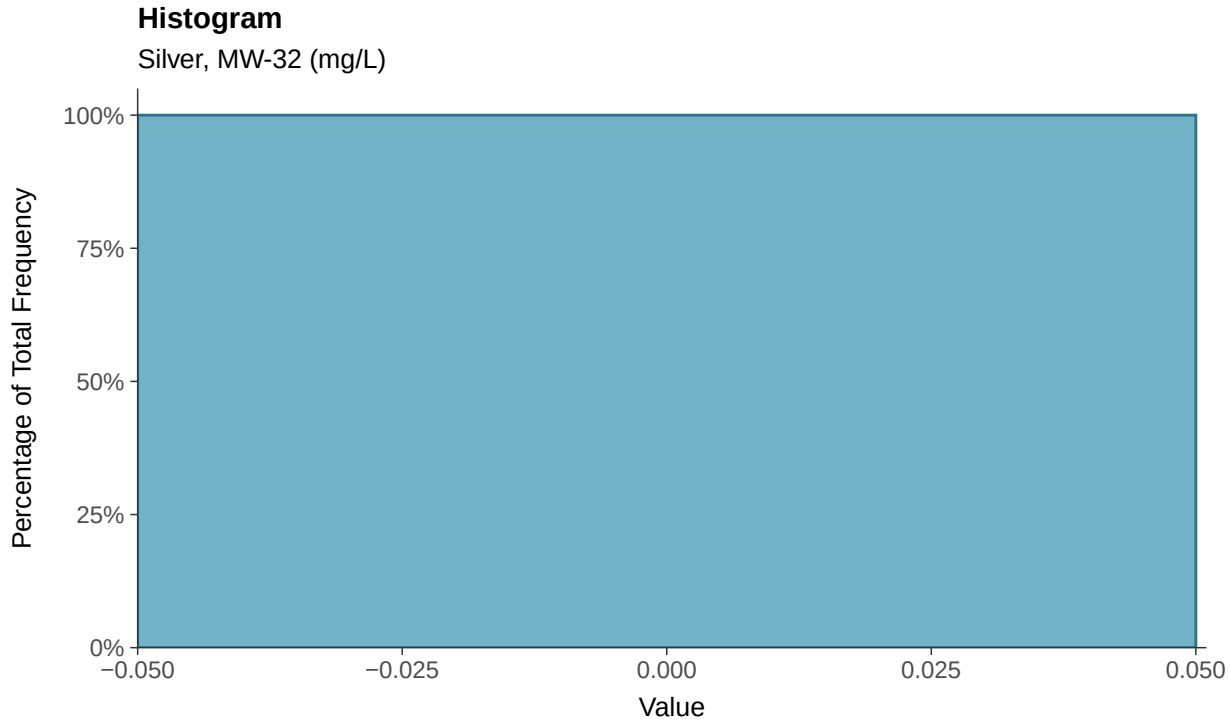
Nickel, MW-32 (mg/L)



Part 115: Silver, MW-32

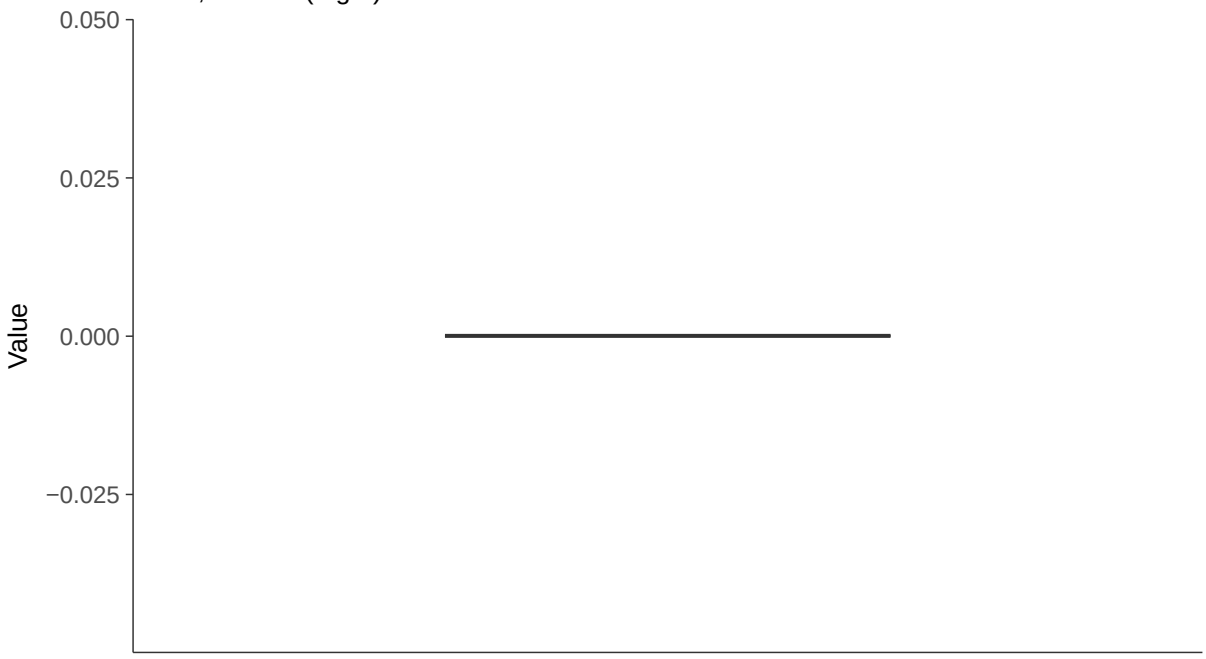
ID: 42_1_5_123





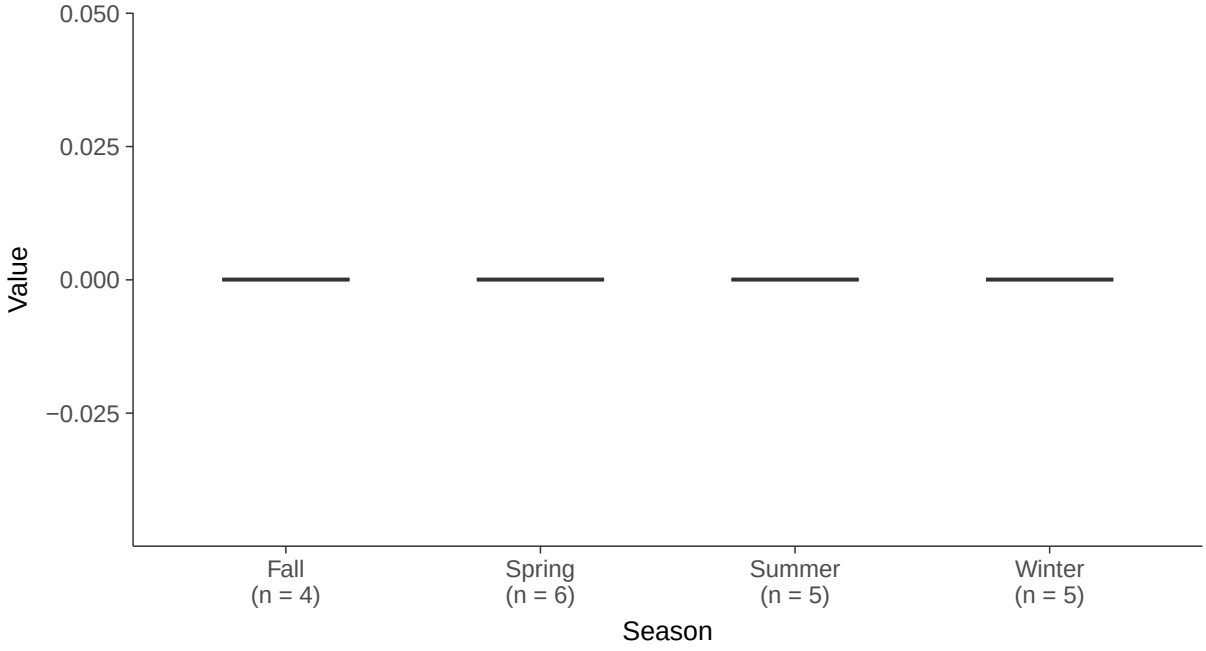
Boxplot

Silver, MW-32 (mg/L)



Boxplot by Season

Silver, MW-32 (mg/L)

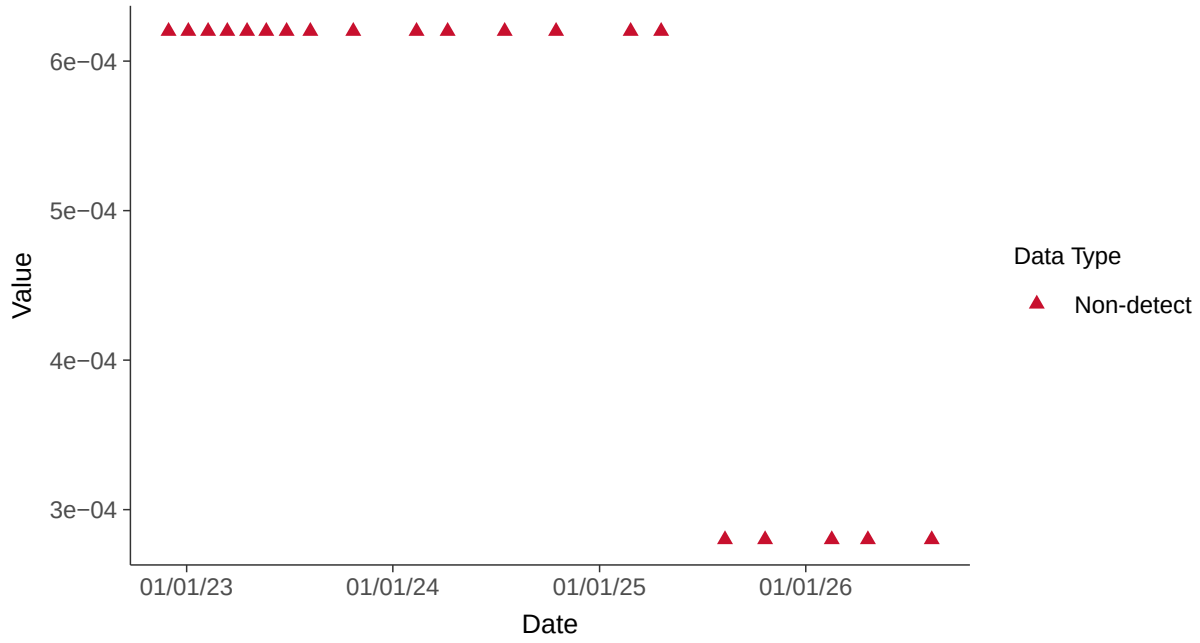


Part 115: Vanadium, MW-32

ID: 42_1_5_128

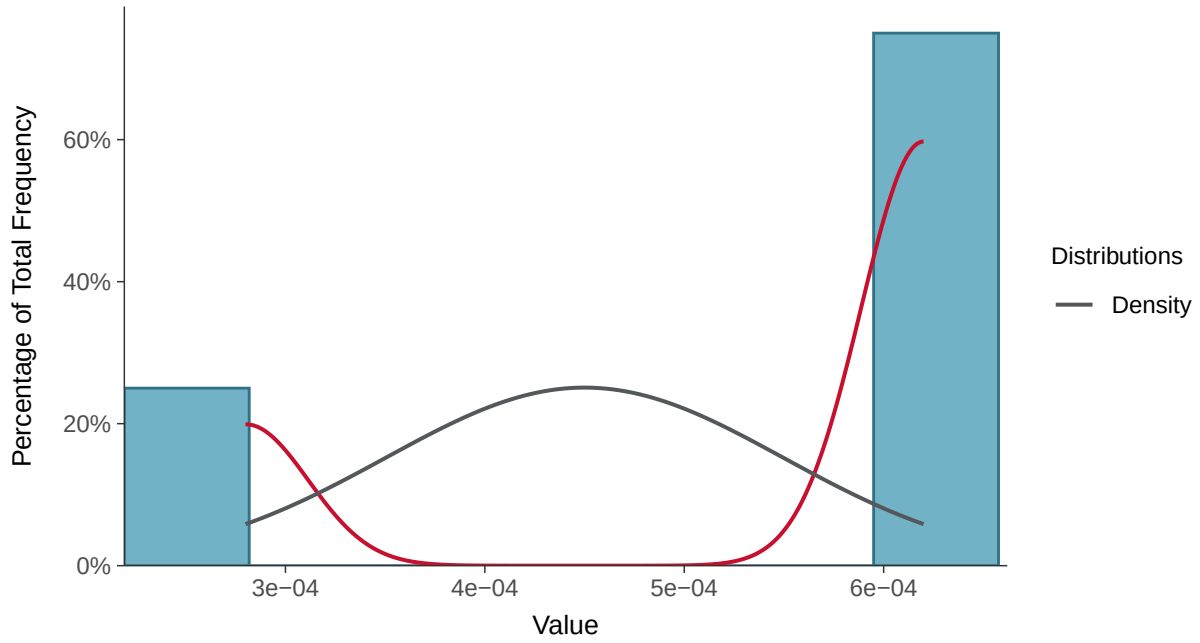
Scatter Plot

Vanadium, MW-32 (mg/L)



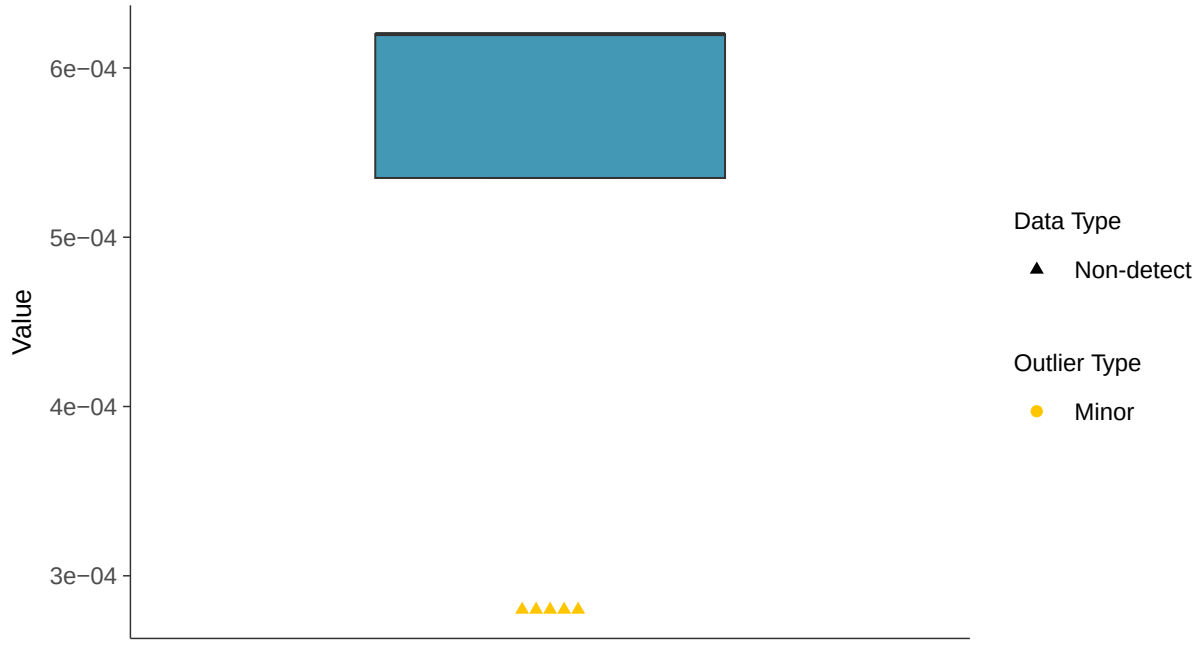
Histogram

Vanadium, MW-32 (mg/L)



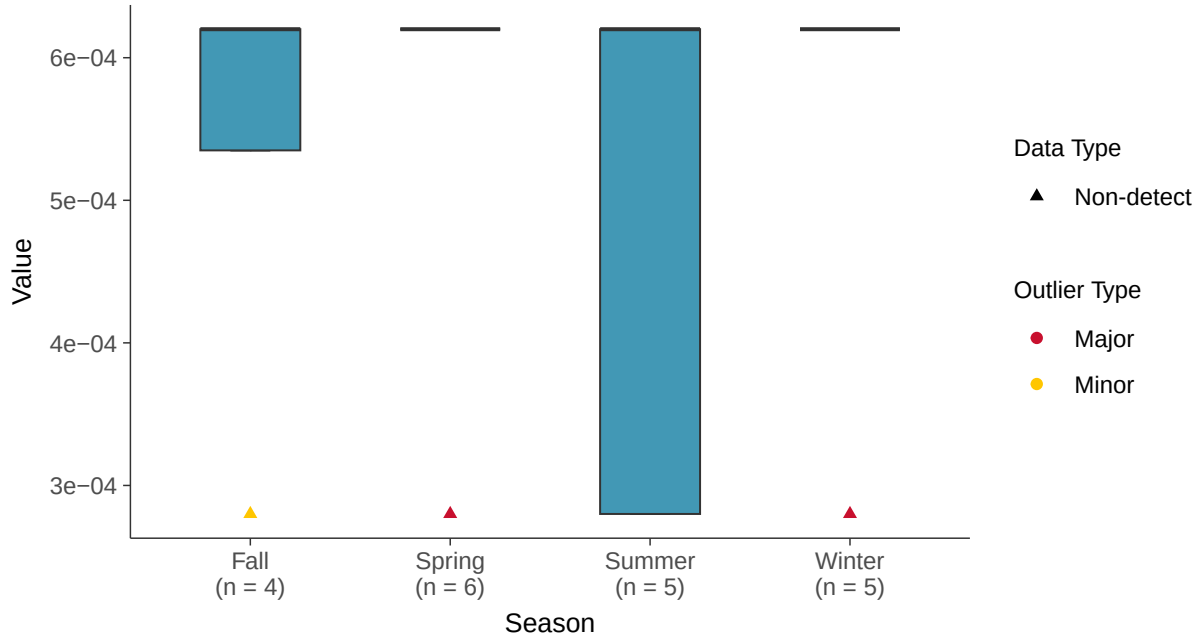
Boxplot

Vanadium, MW-32 (mg/L)



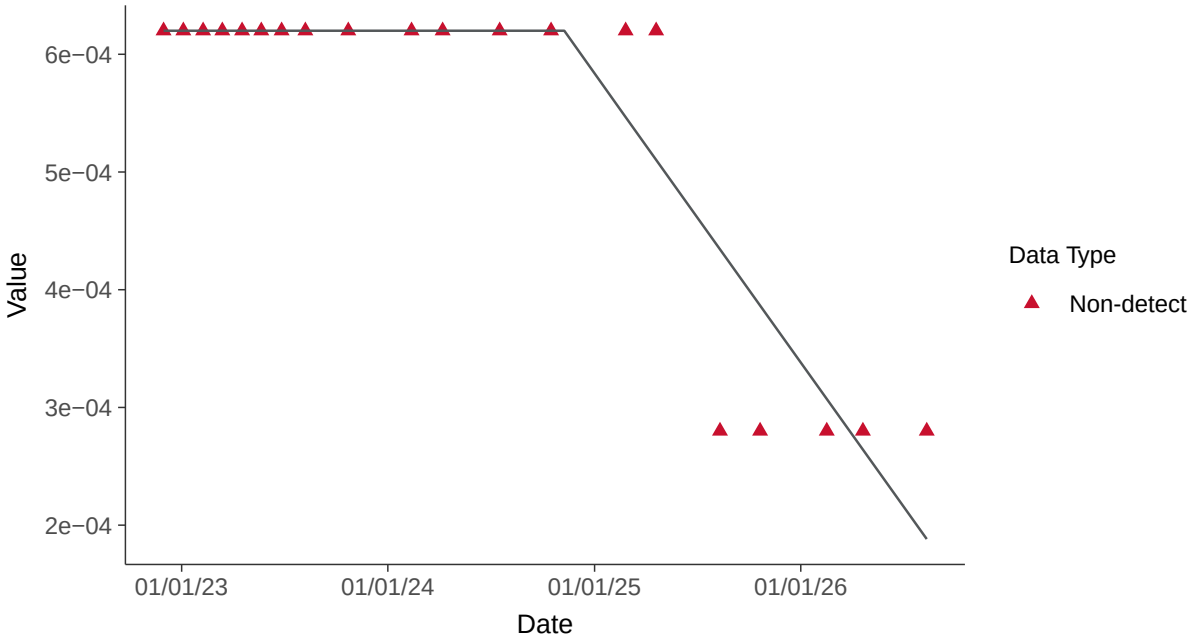
Boxplot by Season

Vanadium, MW-32 (mg/L)



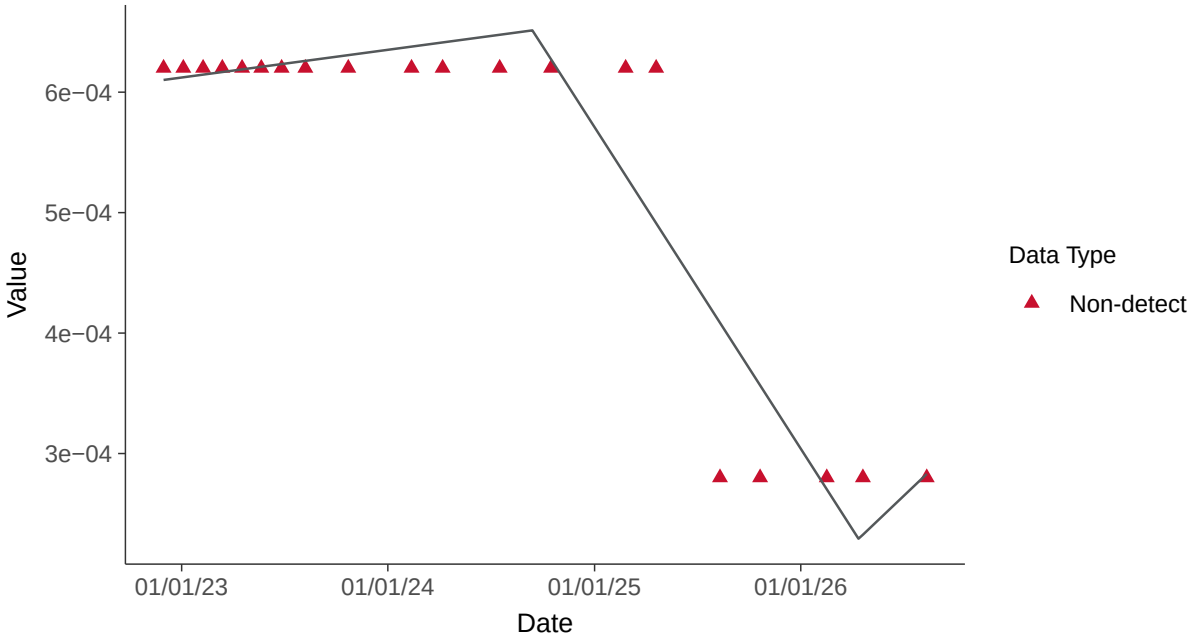
Trend Regression: Piecewise Linear-Linear

Vanadium, MW-32 (mg/L)



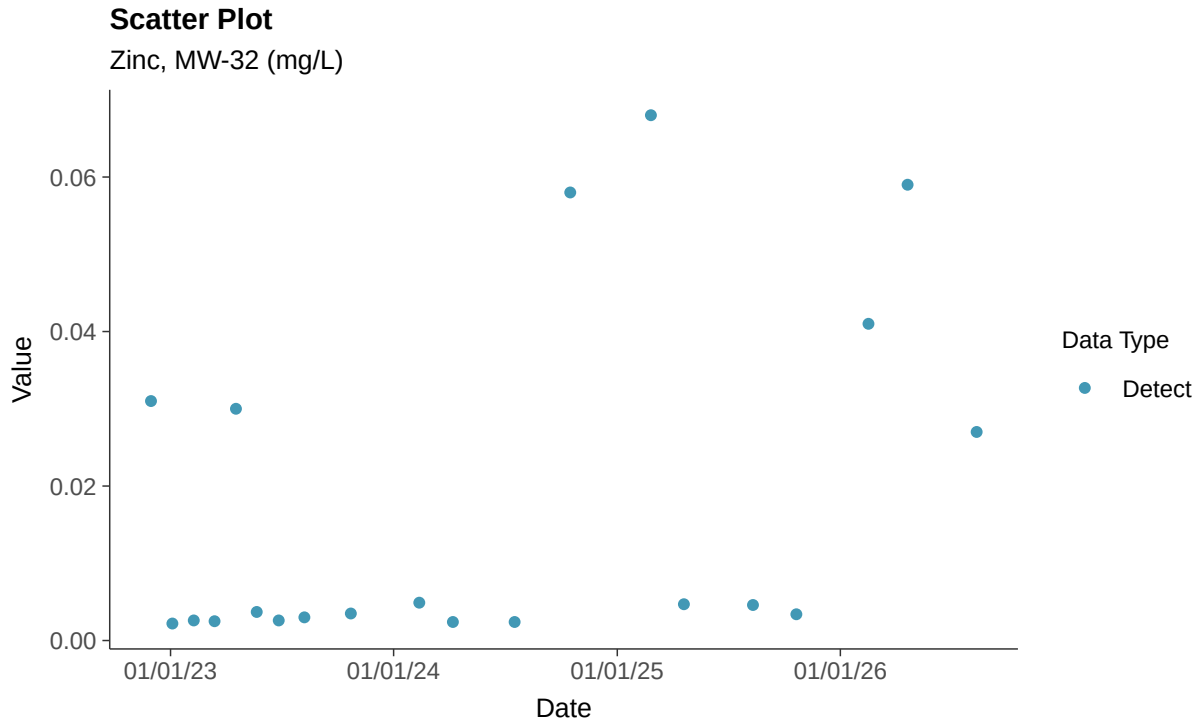
Trend Regression: Piecewise Linear-Linear-Linear

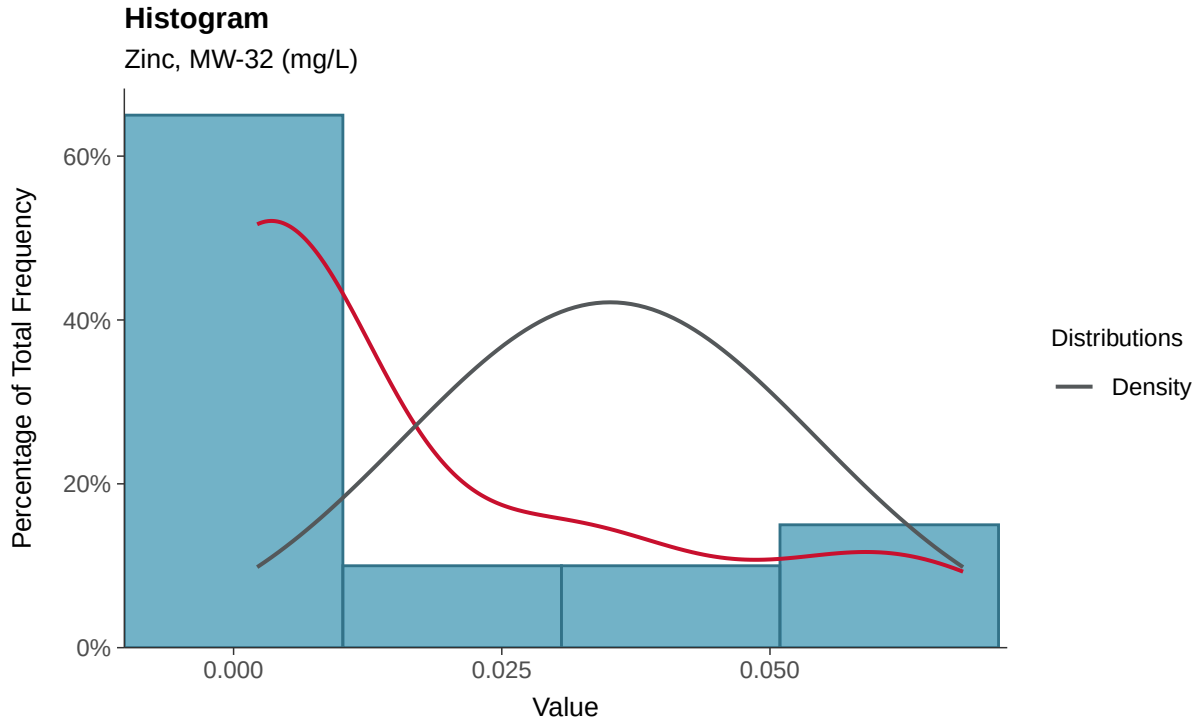
Vanadium, MW-32 (mg/L)



Part 115: Zinc, MW-32

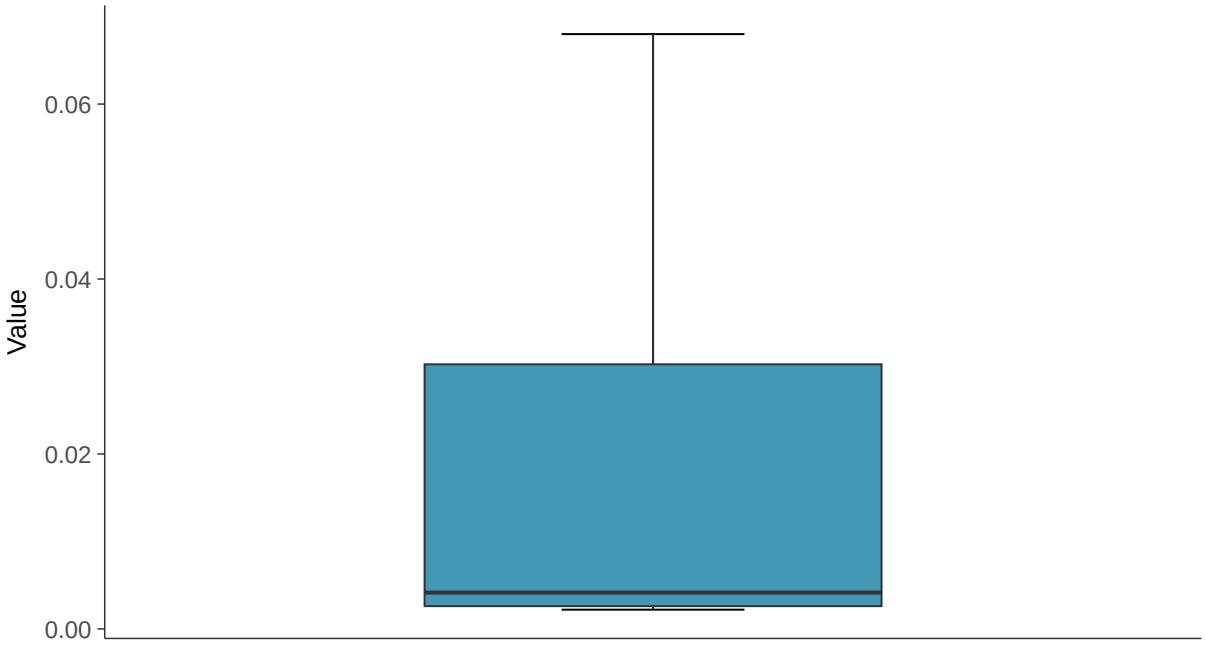
ID: 42_1_5_129





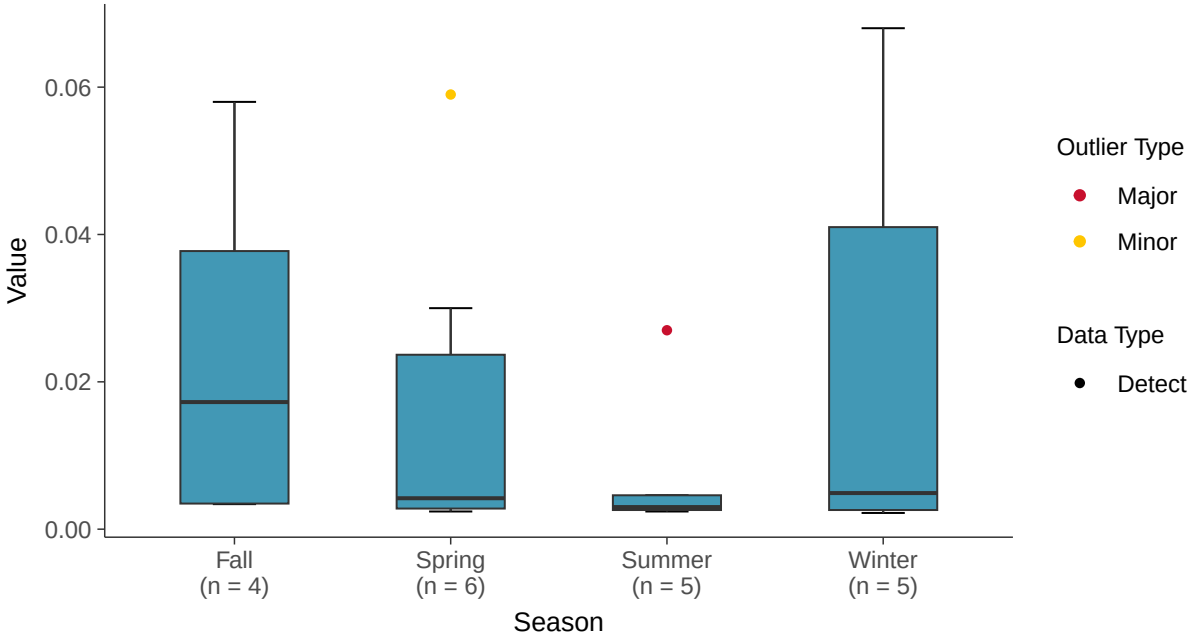
Boxplot

Zinc, MW-32 (mg/L)



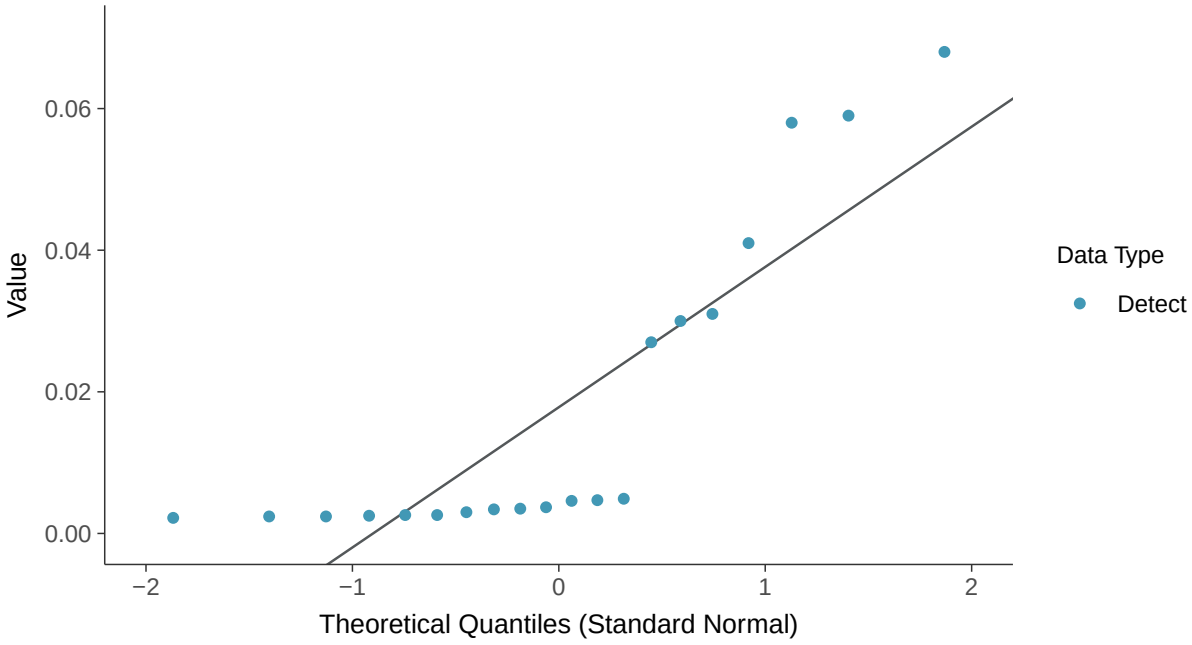
Boxplot by Season

Zinc, MW-32 (mg/L)



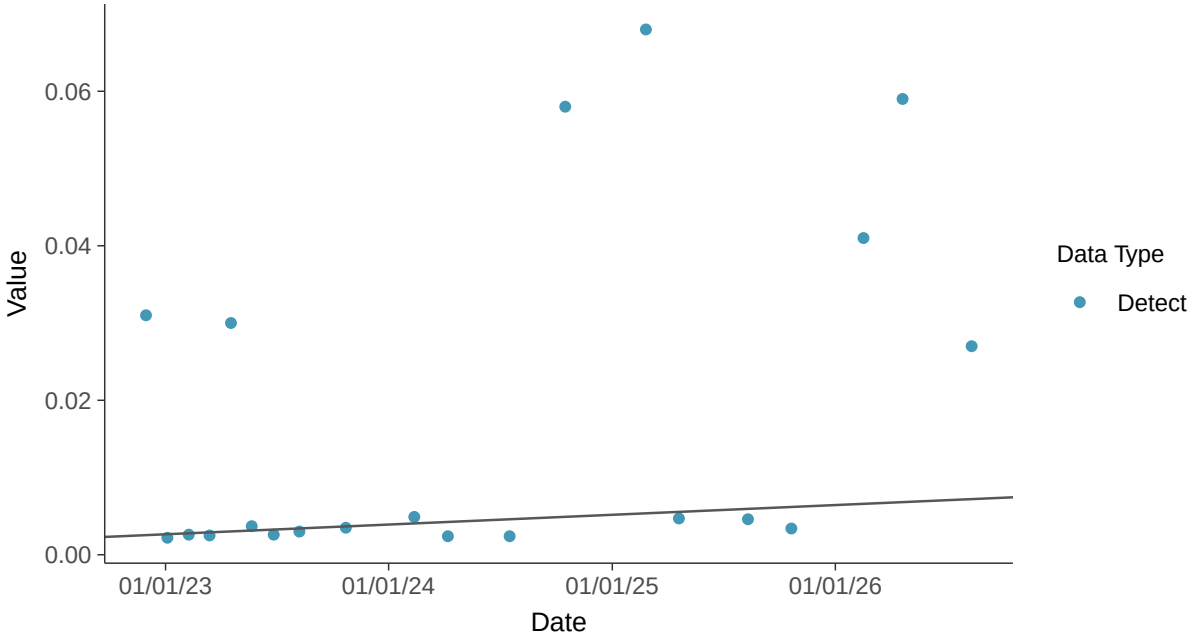
Normal Q-Q plot

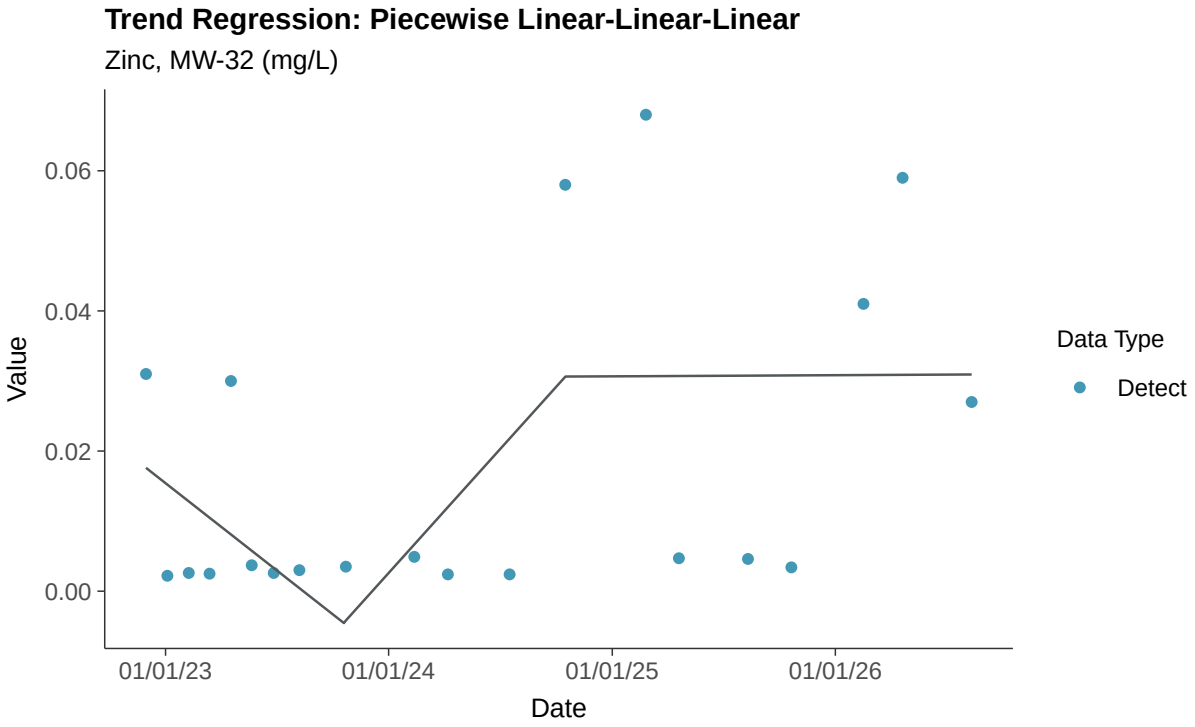
Zinc, MW-32 (mg/L)



Trend Regression: Mann-Kendall/Theil-Sen Estimate

Zinc, MW-32 (mg/L)



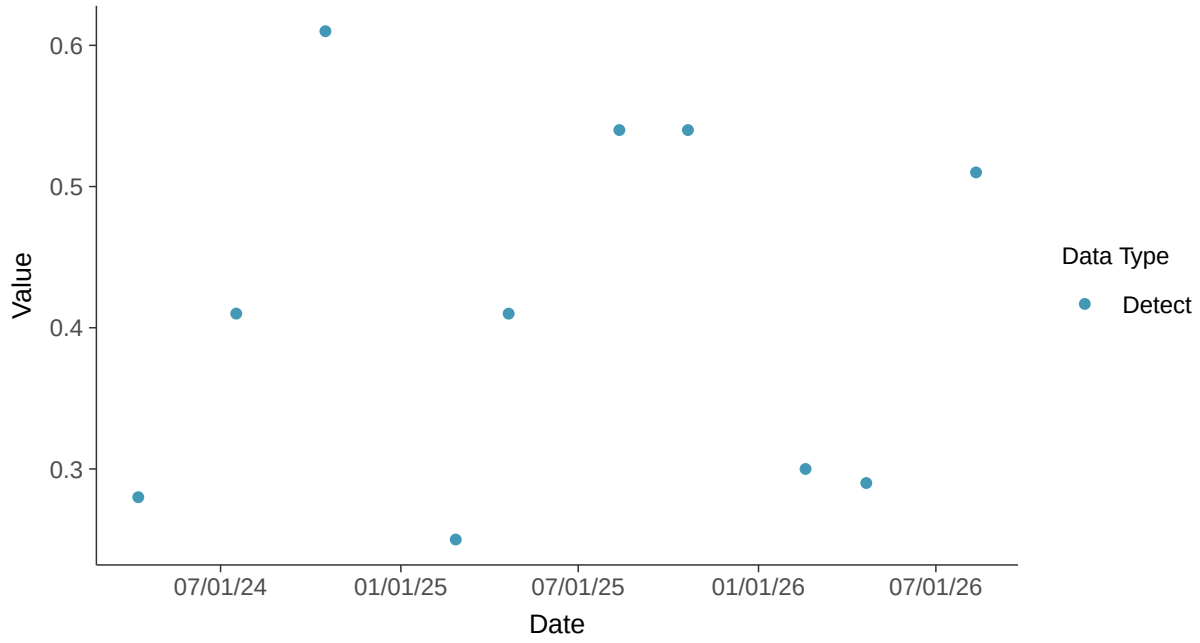

Trend Regression: Piecewise Linear-Linear-Linear
Zinc, MW-32 (mg/L)
Value
0.06
0.04
0.02
0.00
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect

Appendix III: Boron, MW-36

ID: 46_1_3_105

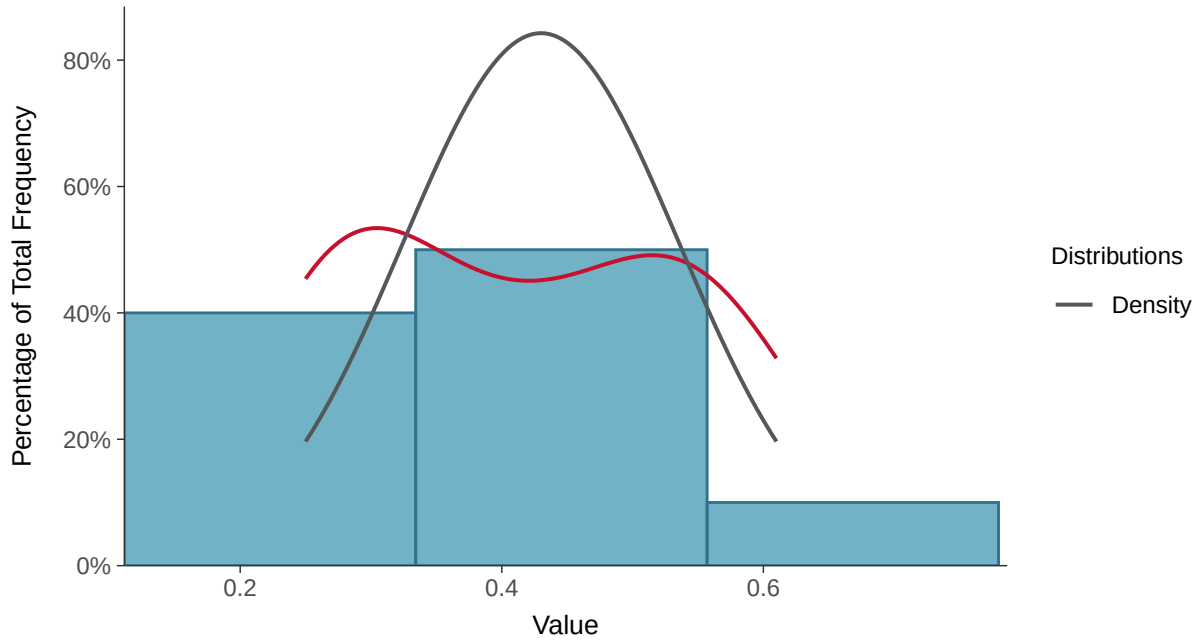
Scatter Plot

Boron, MW-36 (mg/L)



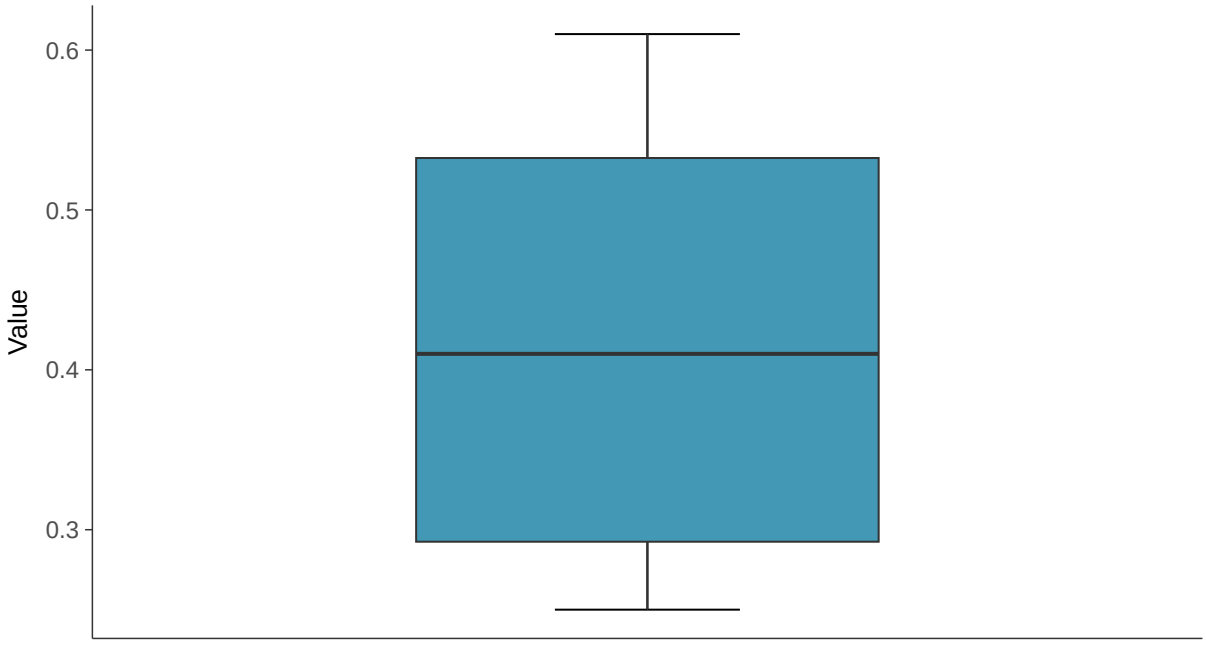
Histogram

Boron, MW-36 (mg/L)



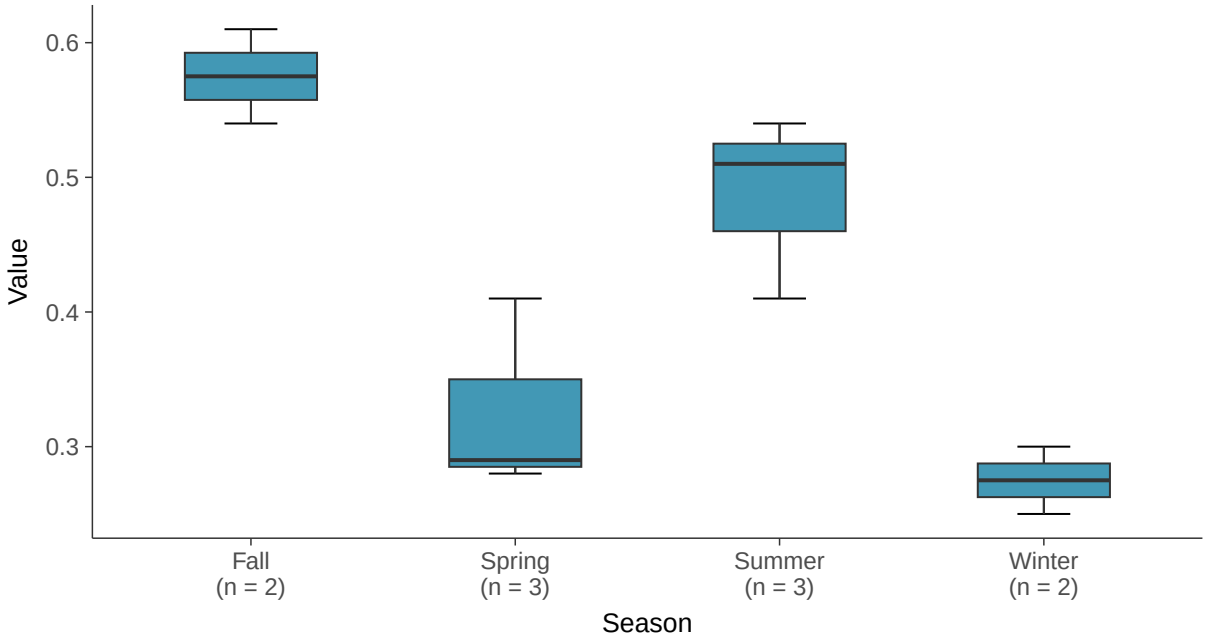
Boxplot

Boron, MW-36 (mg/L)



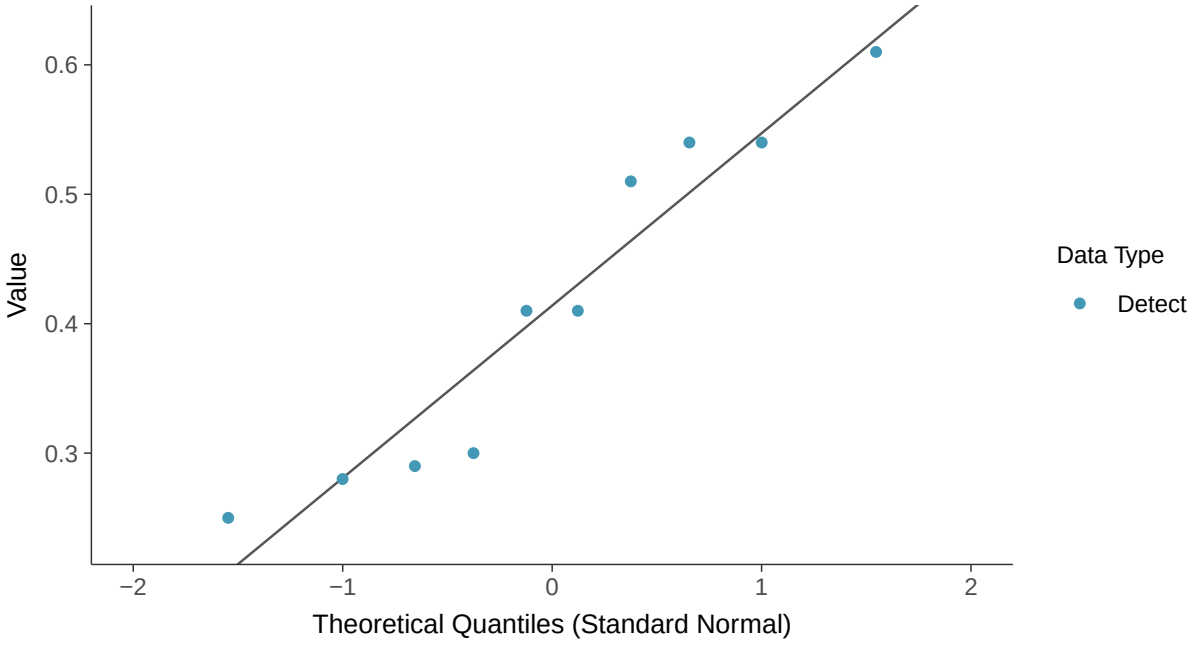
Boxplot by Season

Boron, MW-36 (mg/L)



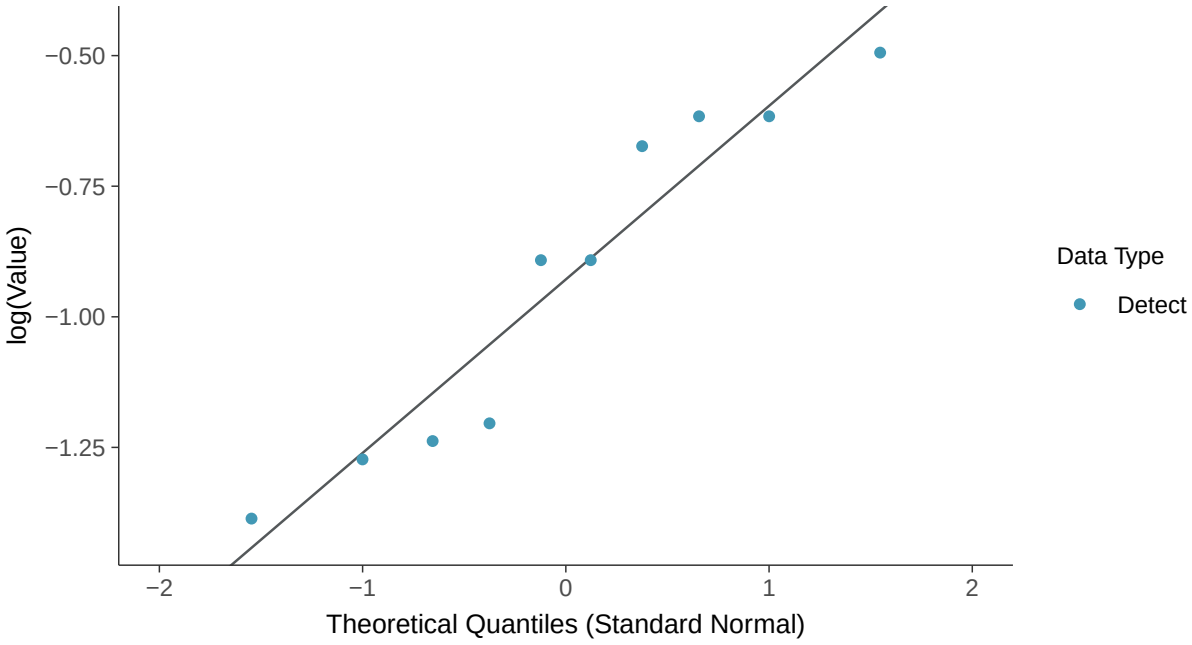
Normal Q-Q plot

Boron, MW-36 (mg/L)



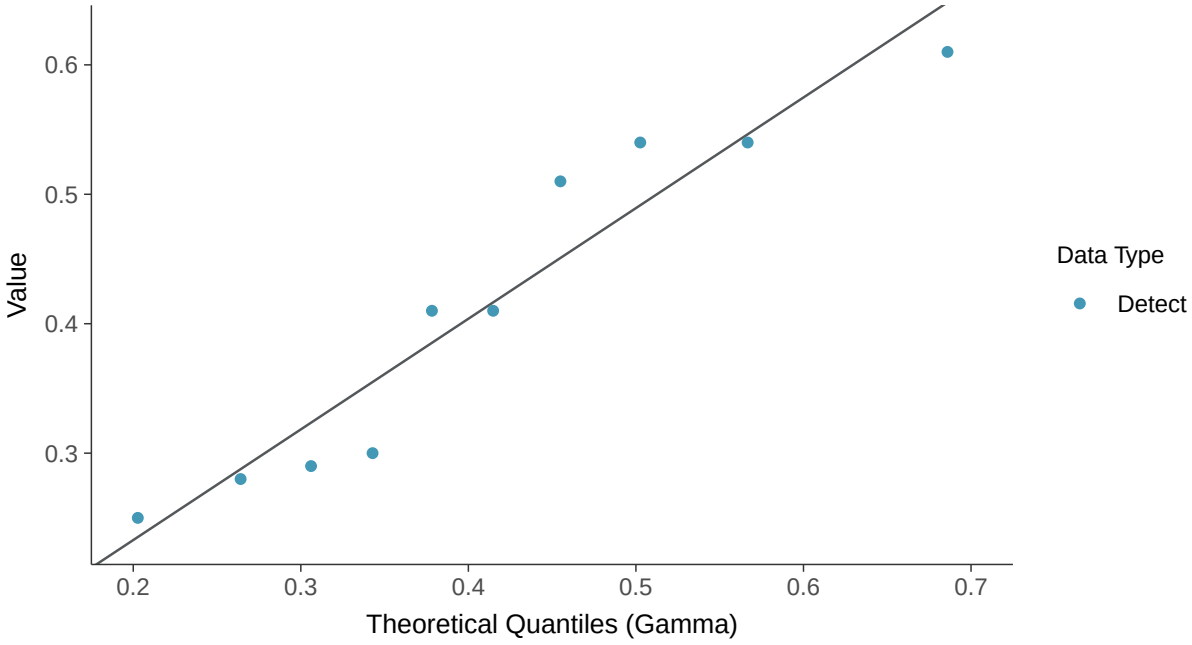
Lognormal Q-Q plot

Boron, MW-36 (mg/L)



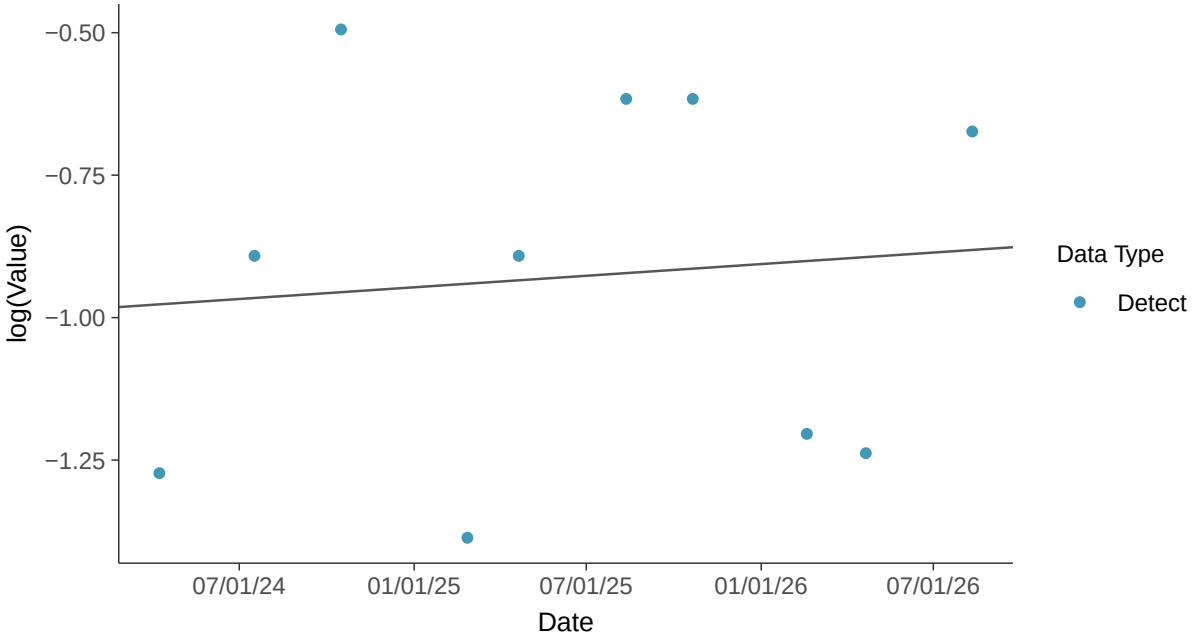
Gamma Q-Q plot

Boron, MW-36 (mg/L)



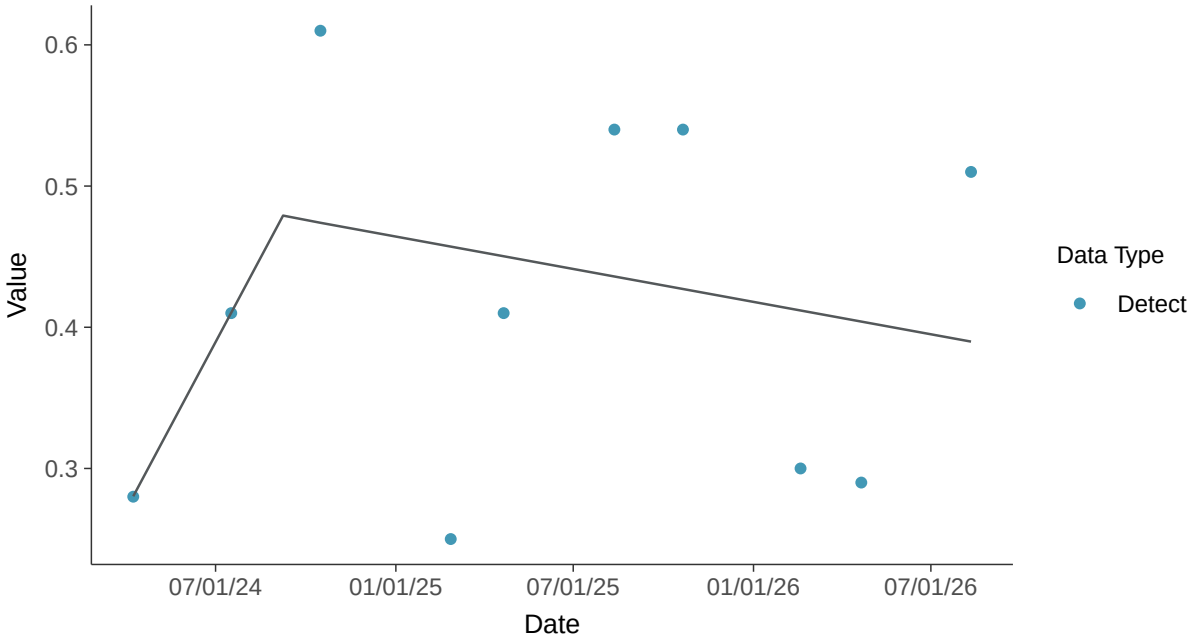
Trend Regression: Lognormal MLE

Boron, MW-36 (mg/L)



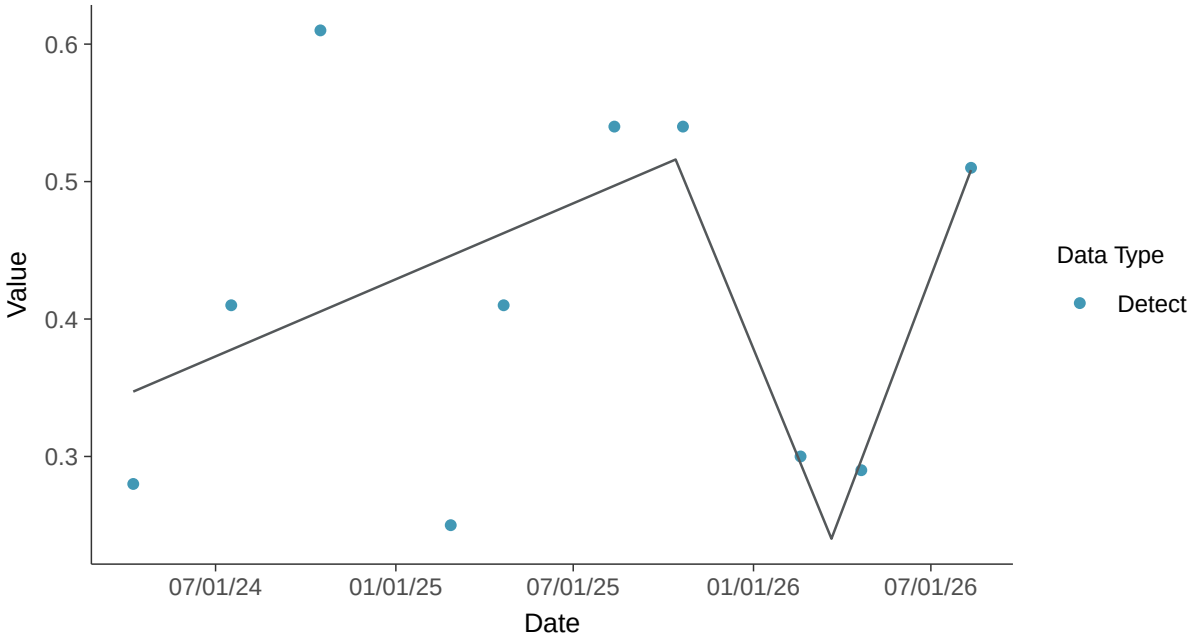
Trend Regression: Piecewise Linear-Linear

Boron, MW-36 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Boron, MW-36 (mg/L)

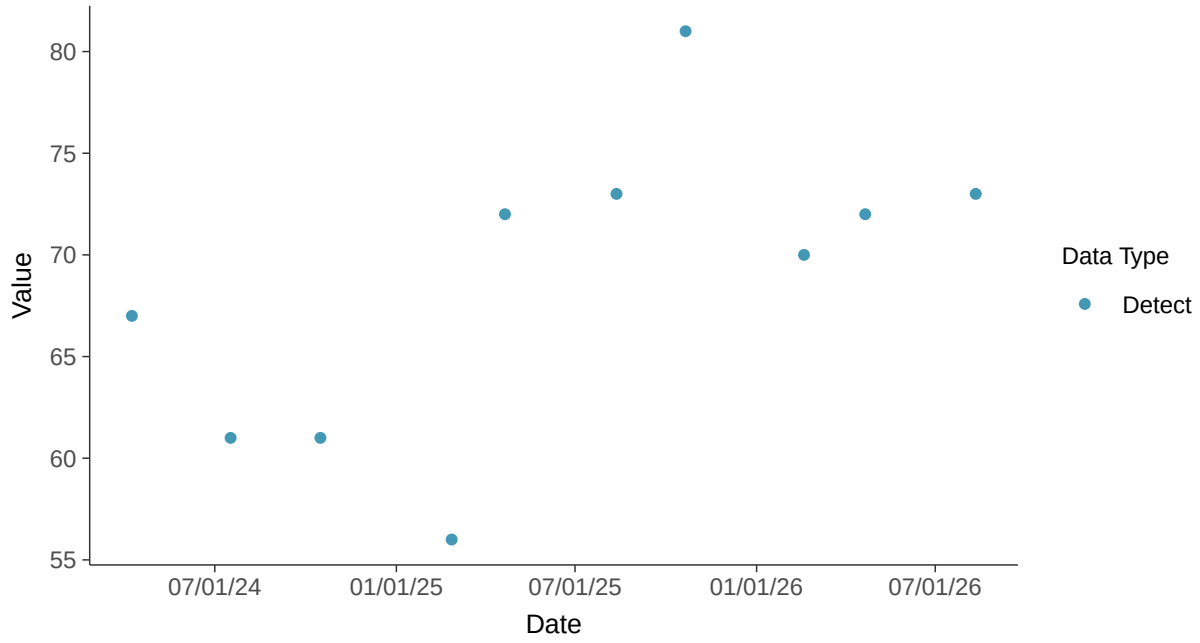


Appendix III: Calcium, MW-36

ID: 46_1_3_107

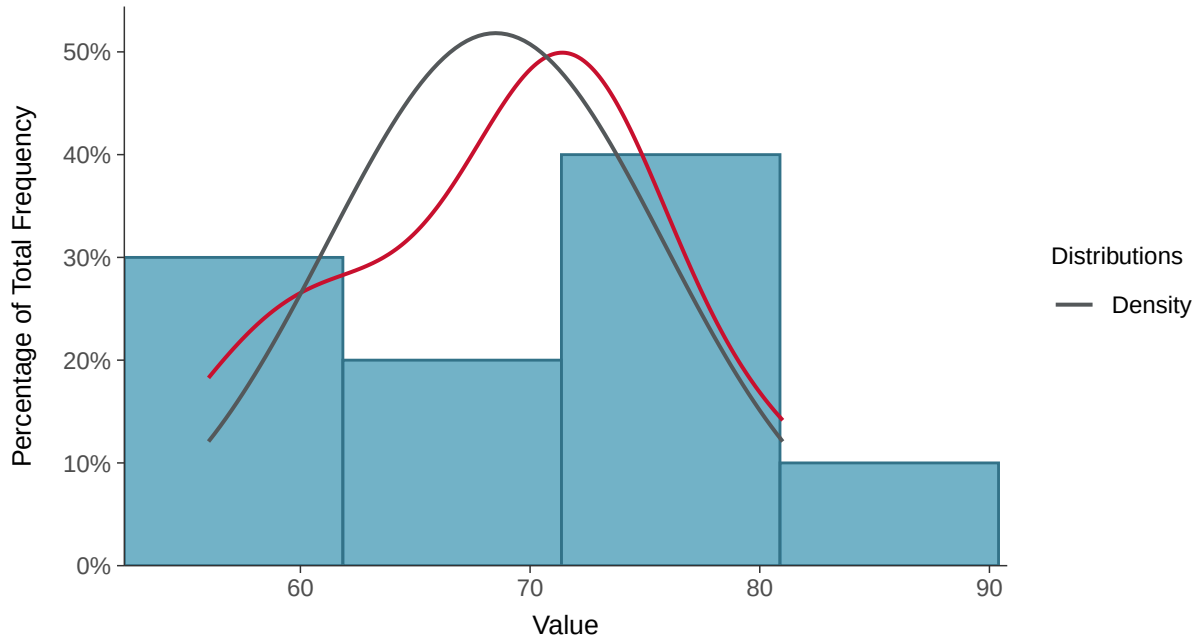
Scatter Plot

Calcium, MW-36 (mg/L)



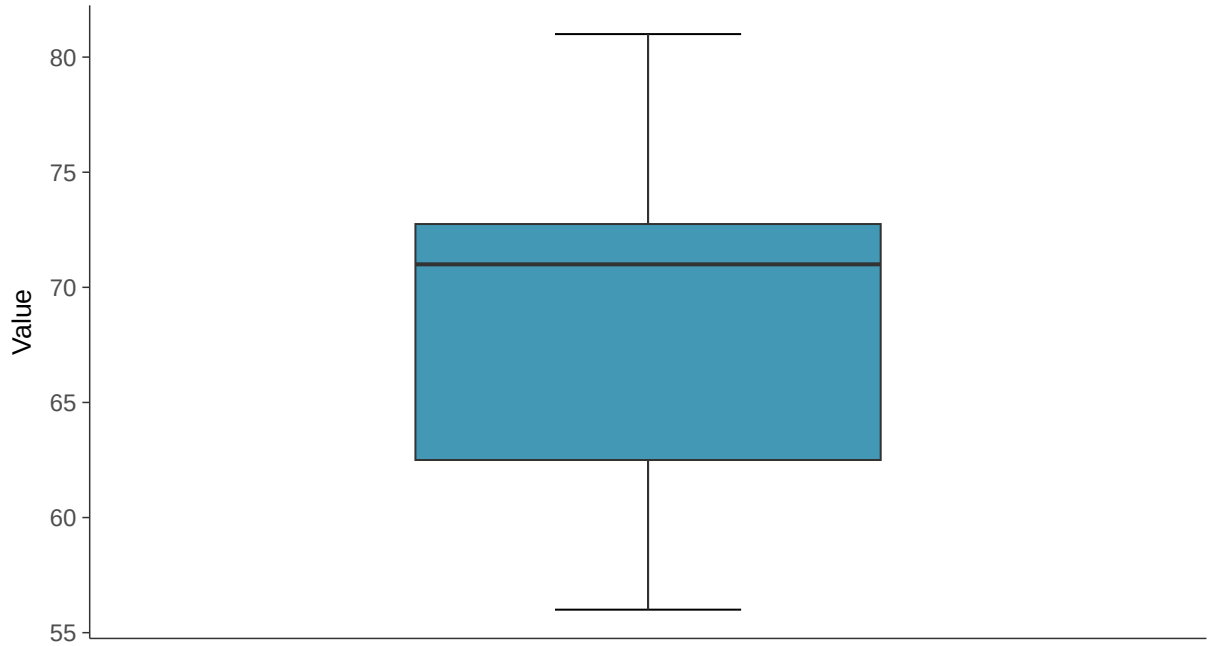
Histogram

Calcium, MW-36 (mg/L)



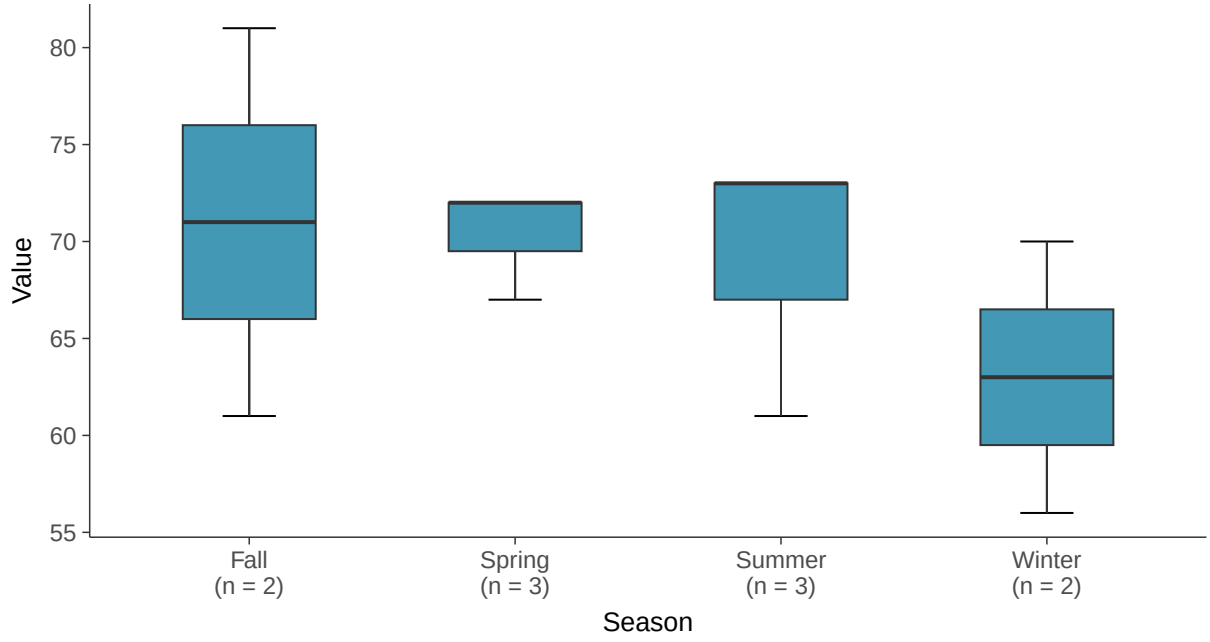
Boxplot

Calcium, MW-36 (mg/L)



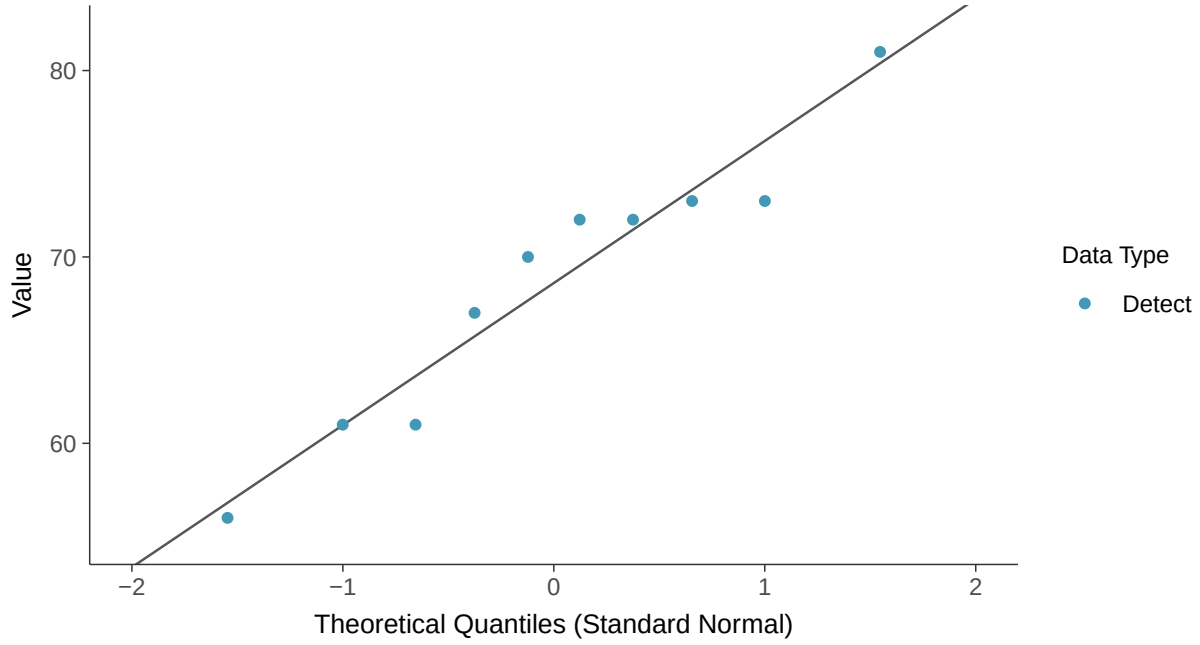
Boxplot by Season

Calcium, MW-36 (mg/L)



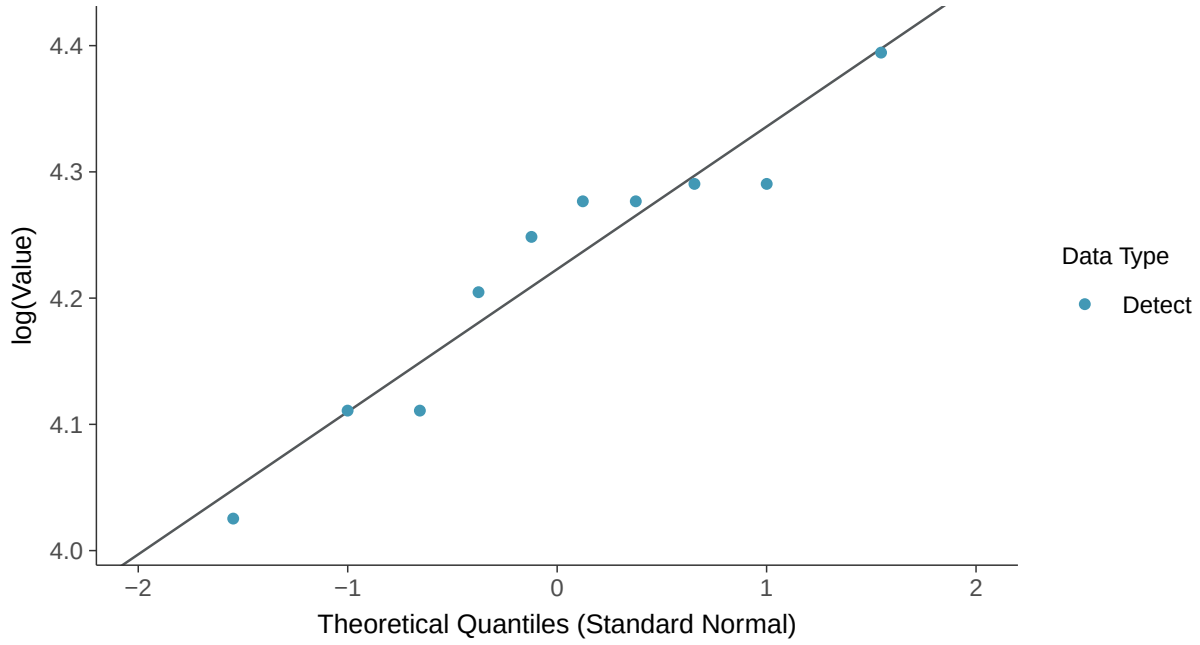
Normal Q-Q plot

Calcium, MW-36 (mg/L)



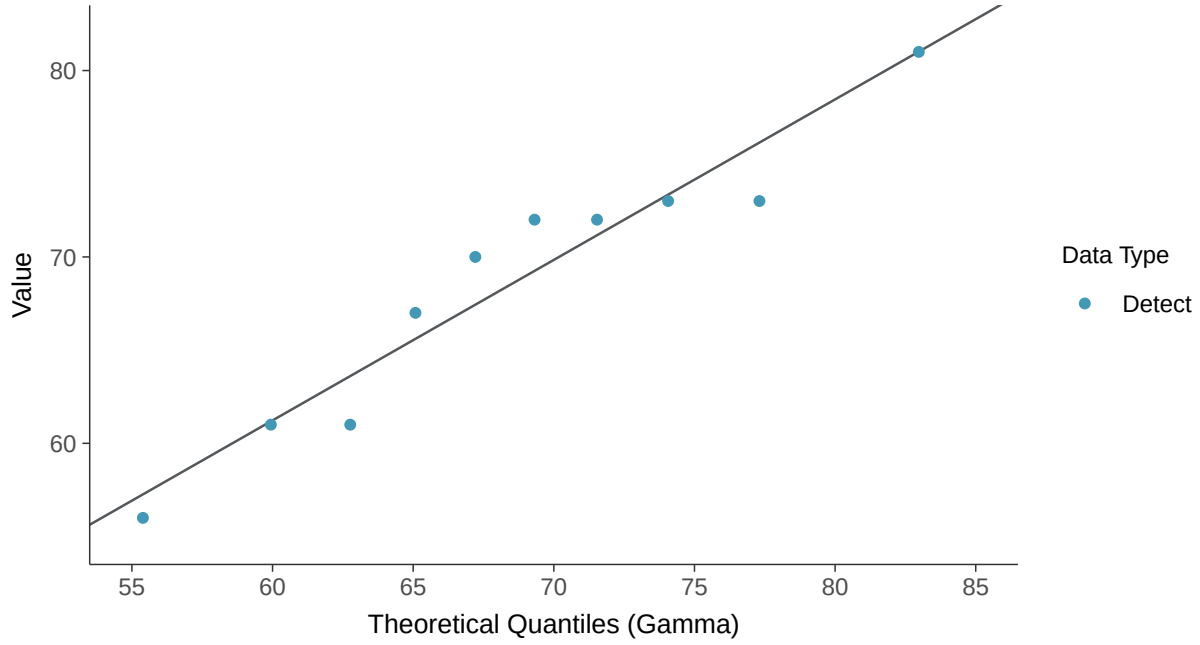
Lognormal Q-Q plot

Calcium, MW-36 (mg/L)



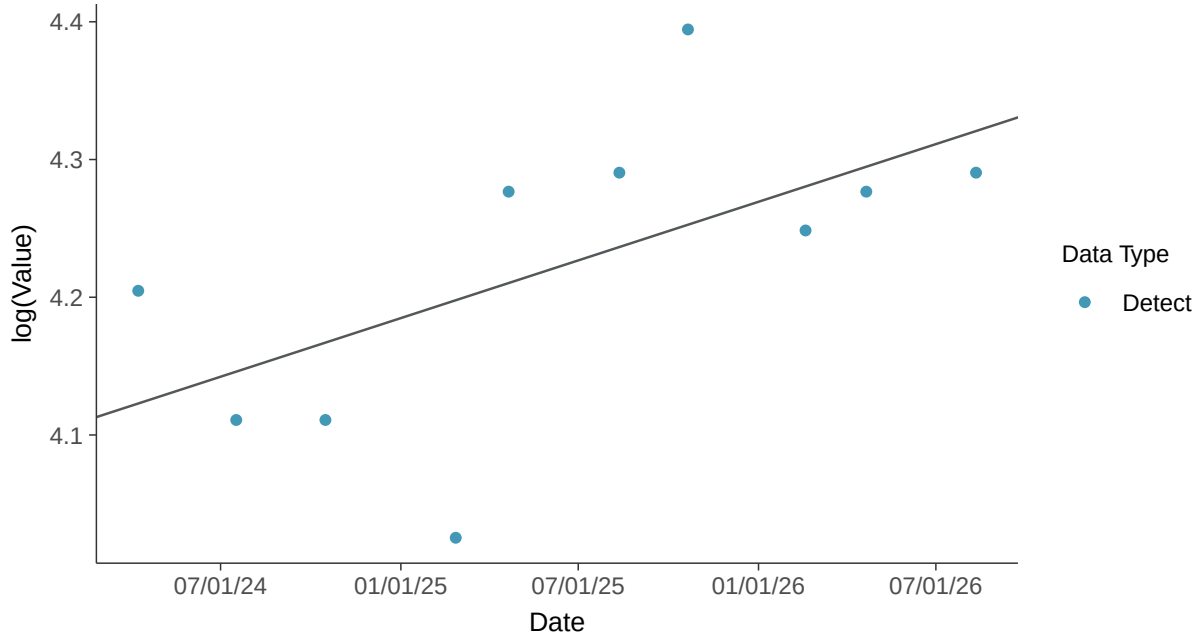
Gamma Q-Q plot

Calcium, MW-36 (mg/L)



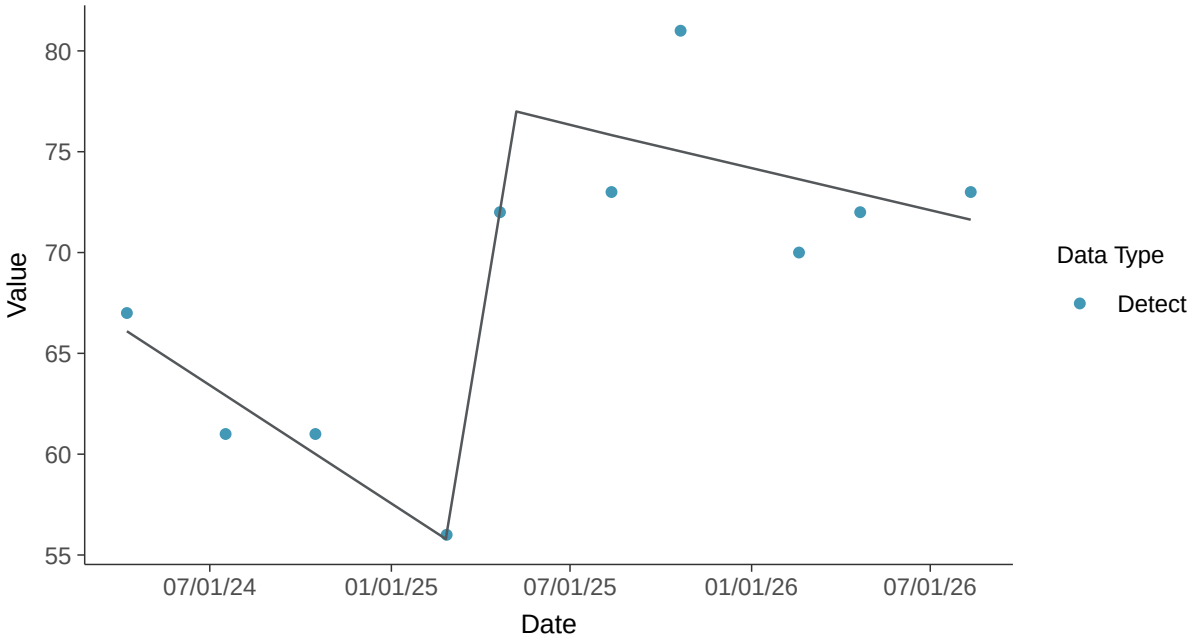
Trend Regression: Lognormal MLE

Calcium, MW-36 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Calcium, MW-36 (mg/L)

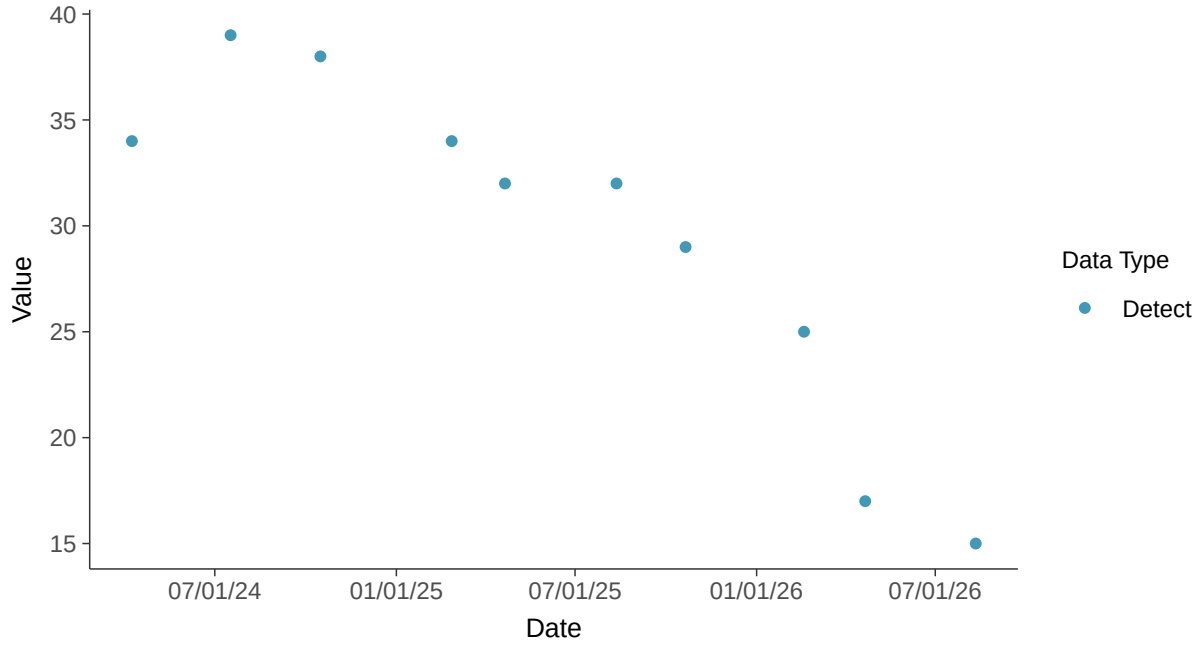


Appendix III: Chloride (as Cl), MW-36

ID: 46_1_3_108

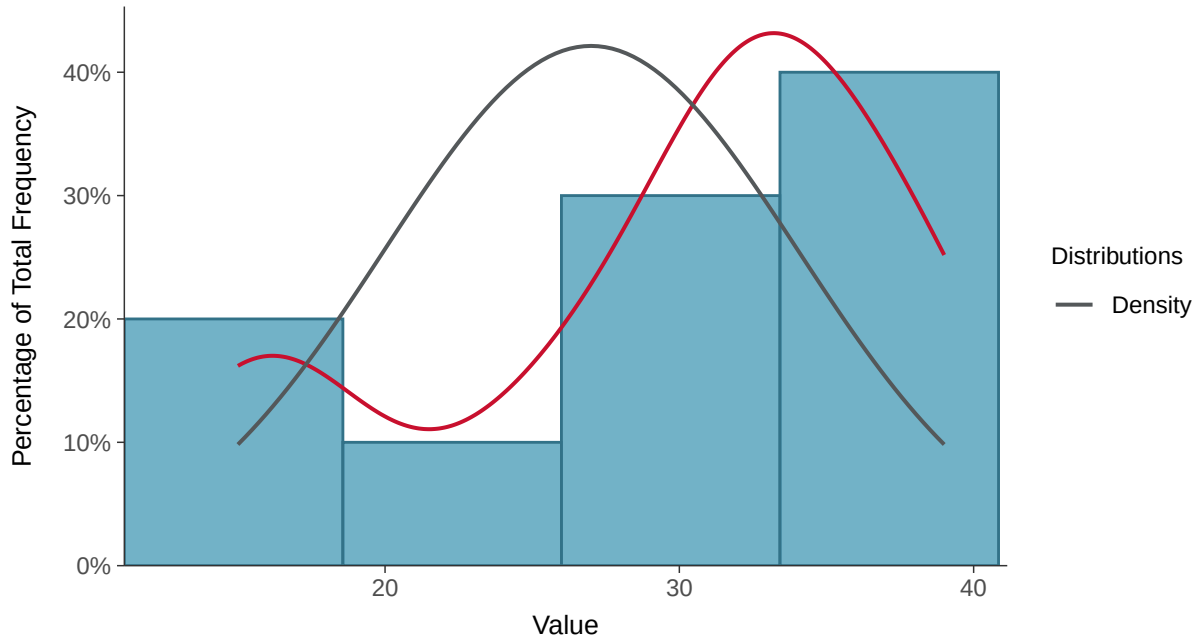
Scatter Plot

Chloride (as Cl), MW-36 (mg/L)



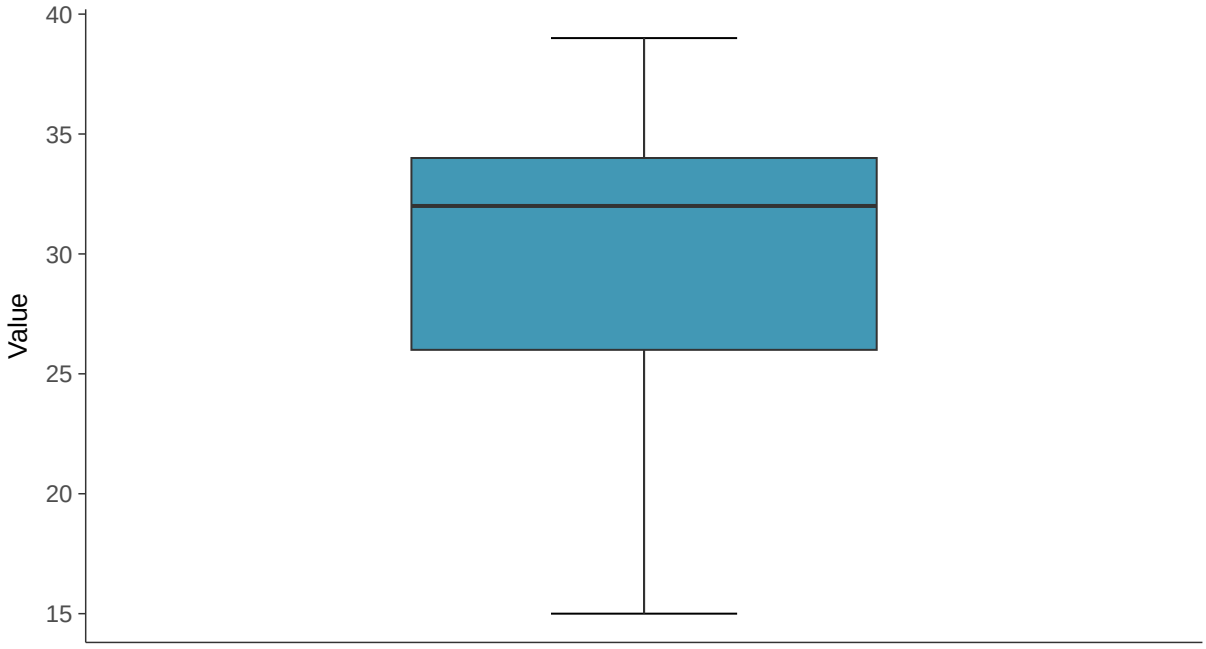
Histogram

Chloride (as Cl), MW-36 (mg/L)



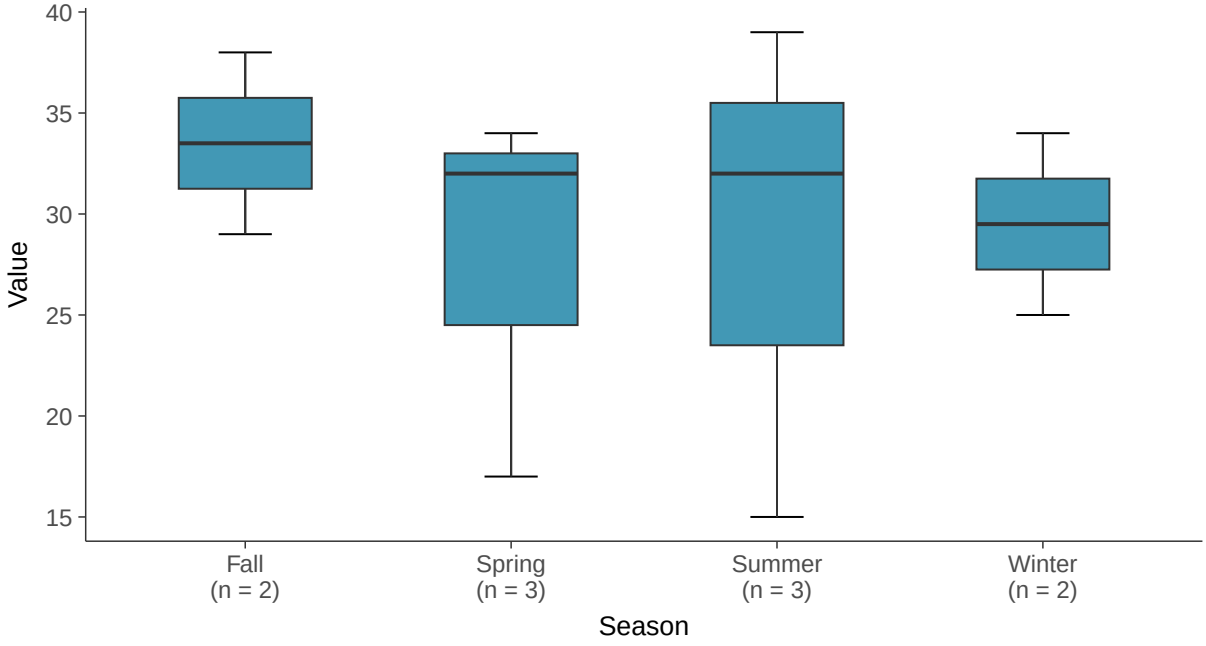
Boxplot

Chloride (as Cl), MW-36 (mg/L)



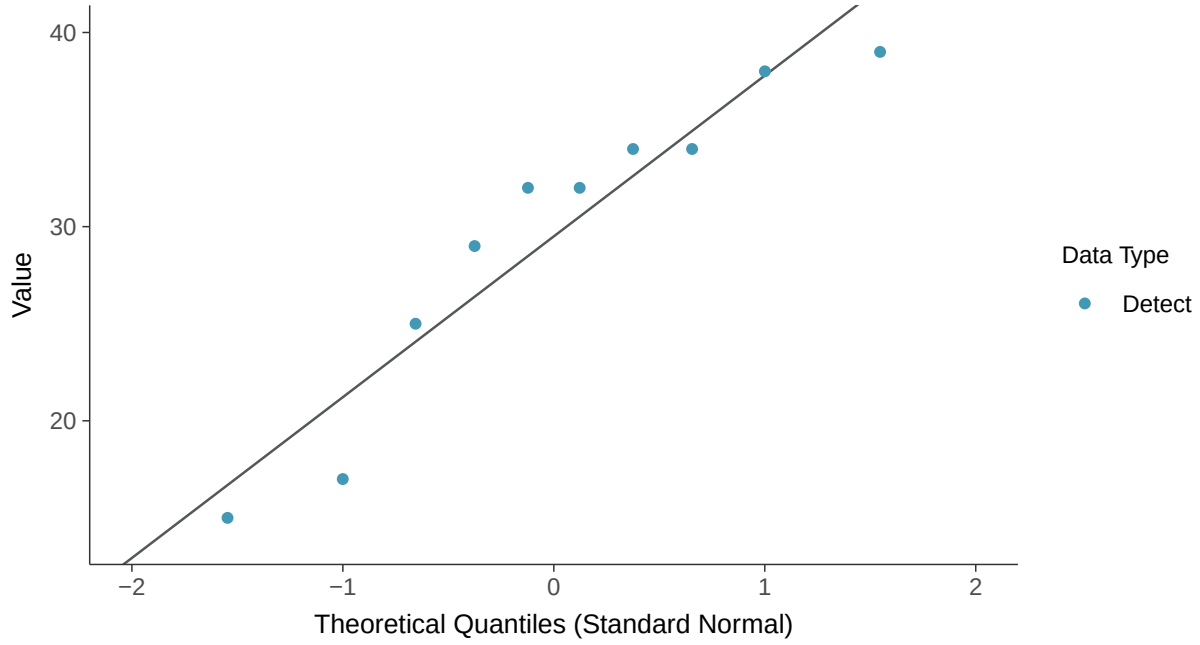
Boxplot by Season

Chloride (as Cl), MW-36 (mg/L)



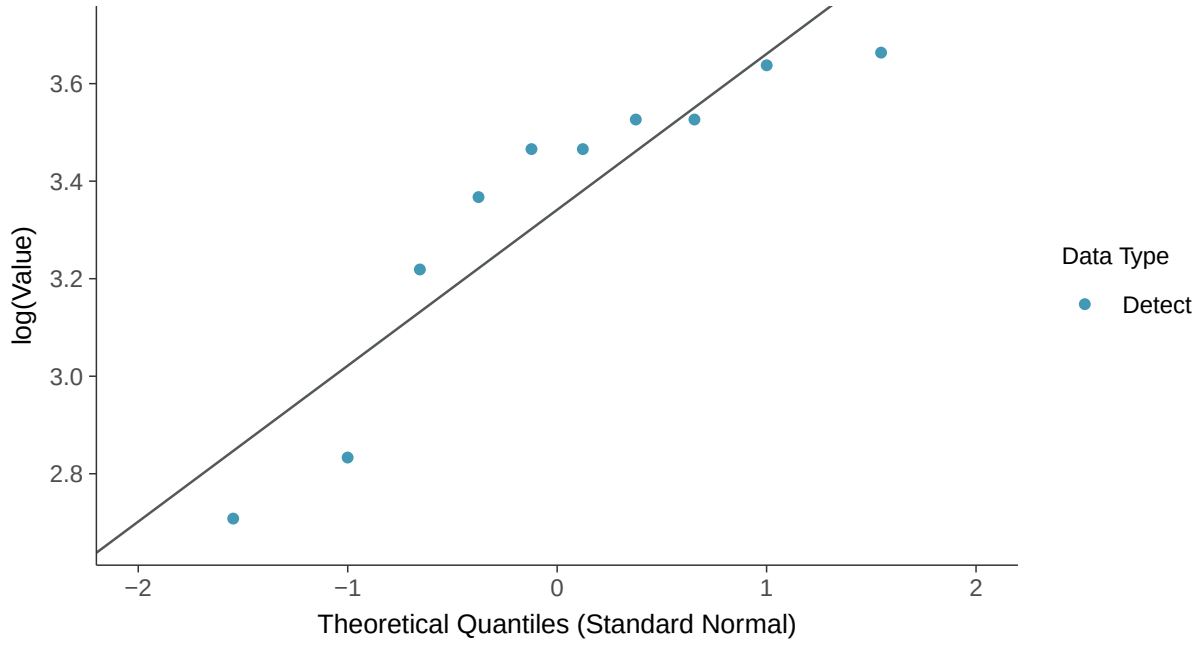
Normal Q-Q plot

Chloride (as Cl), MW-36 (mg/L)



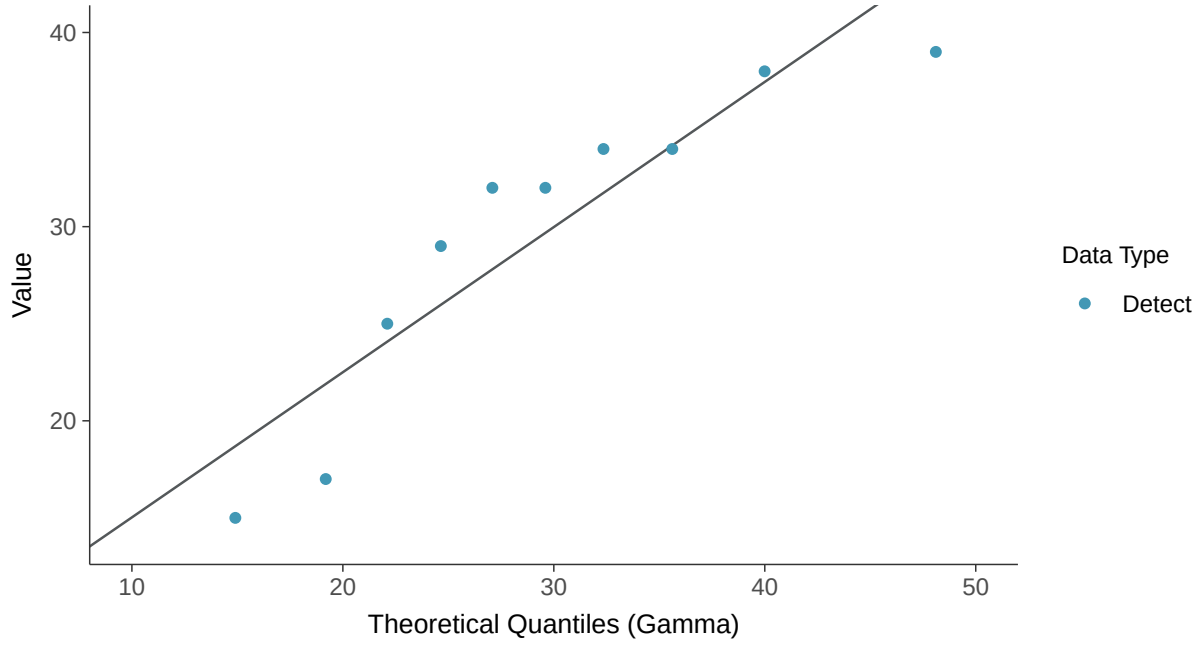
Lognormal Q-Q plot

Chloride (as Cl), MW-36 (mg/L)



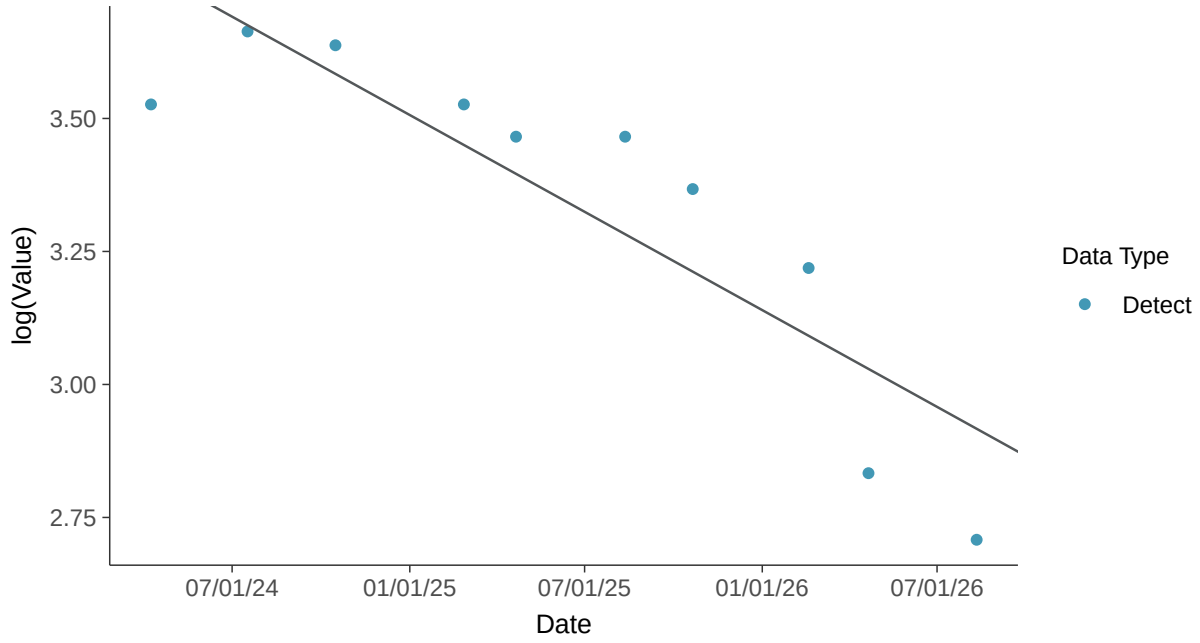
Gamma Q-Q plot

Chloride (as Cl), MW-36 (mg/L)



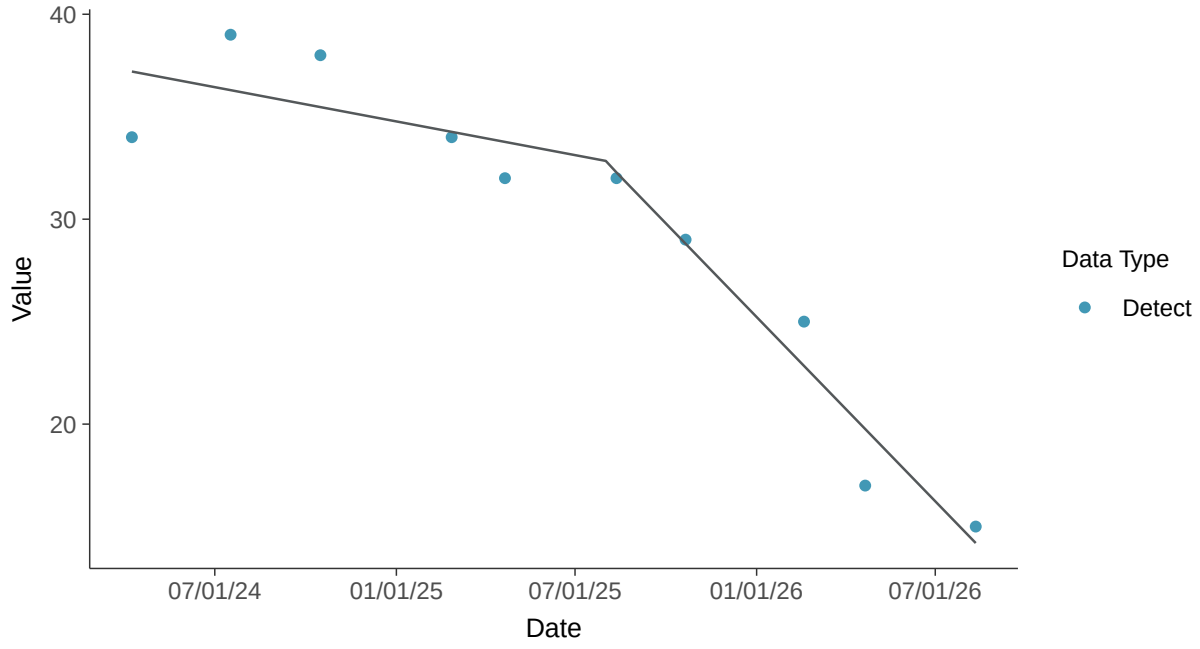
Trend Regression: Lognormal MLE

Chloride (as Cl), MW-36 (mg/L)



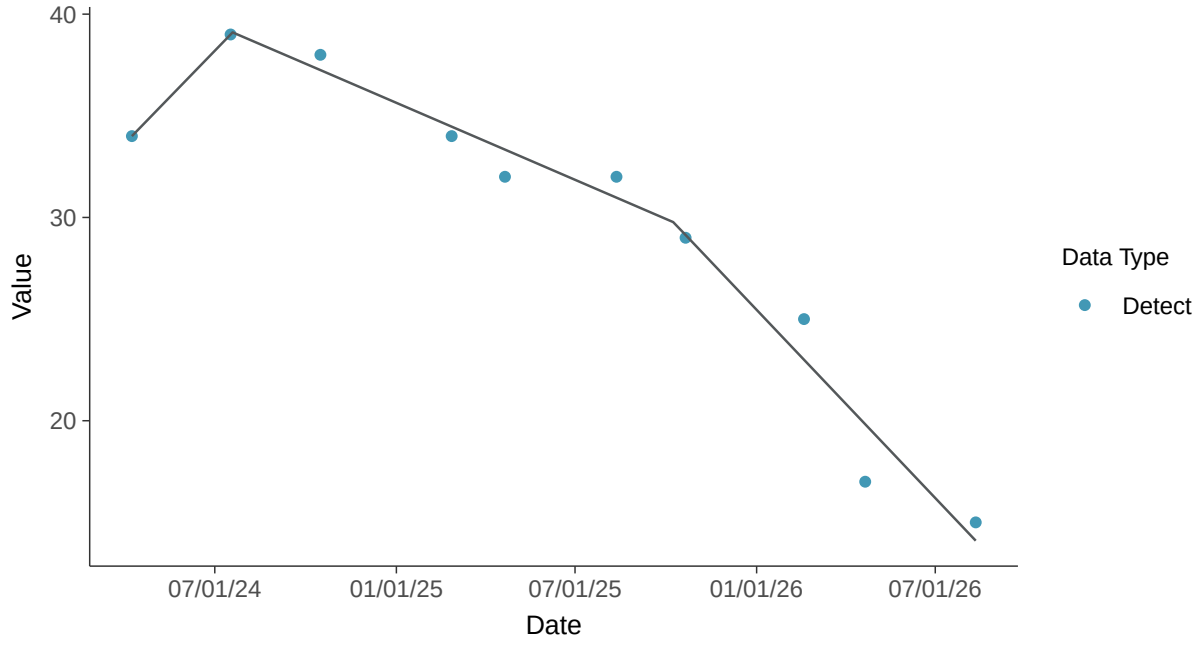
Trend Regression: Piecewise Linear-Linear

Chloride (as Cl), MW-36 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Chloride (as Cl), MW-36 (mg/L)

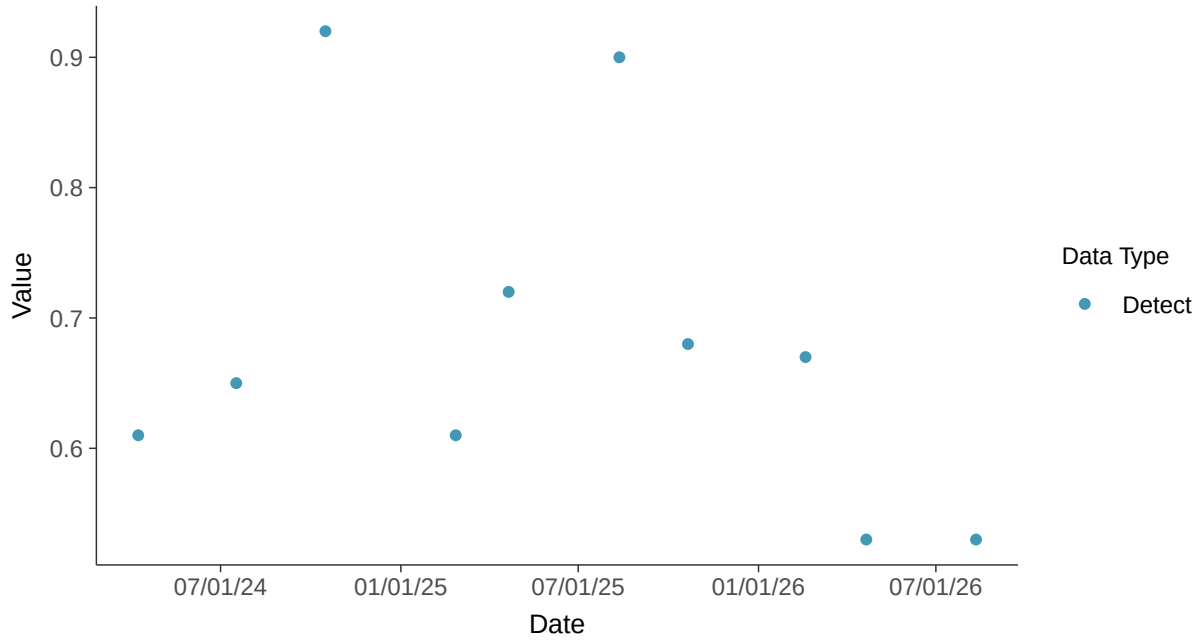


Appendix III: Fluoride, MW-36

ID: 46_1_3_112

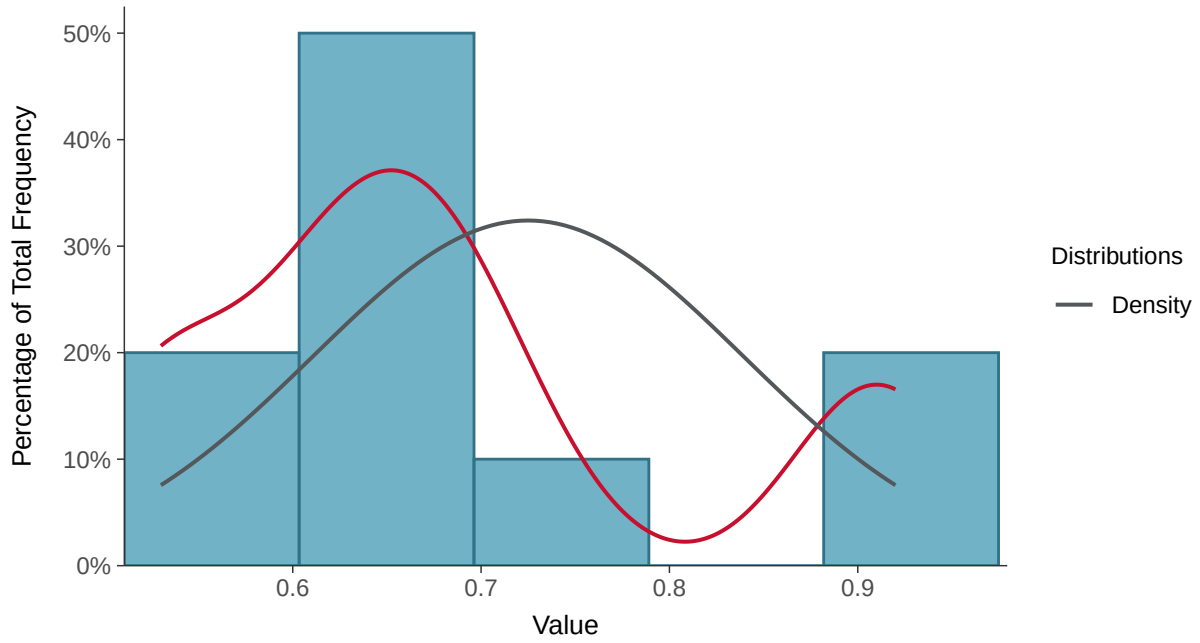
Scatter Plot

Fluoride, MW-36 (mg/L)



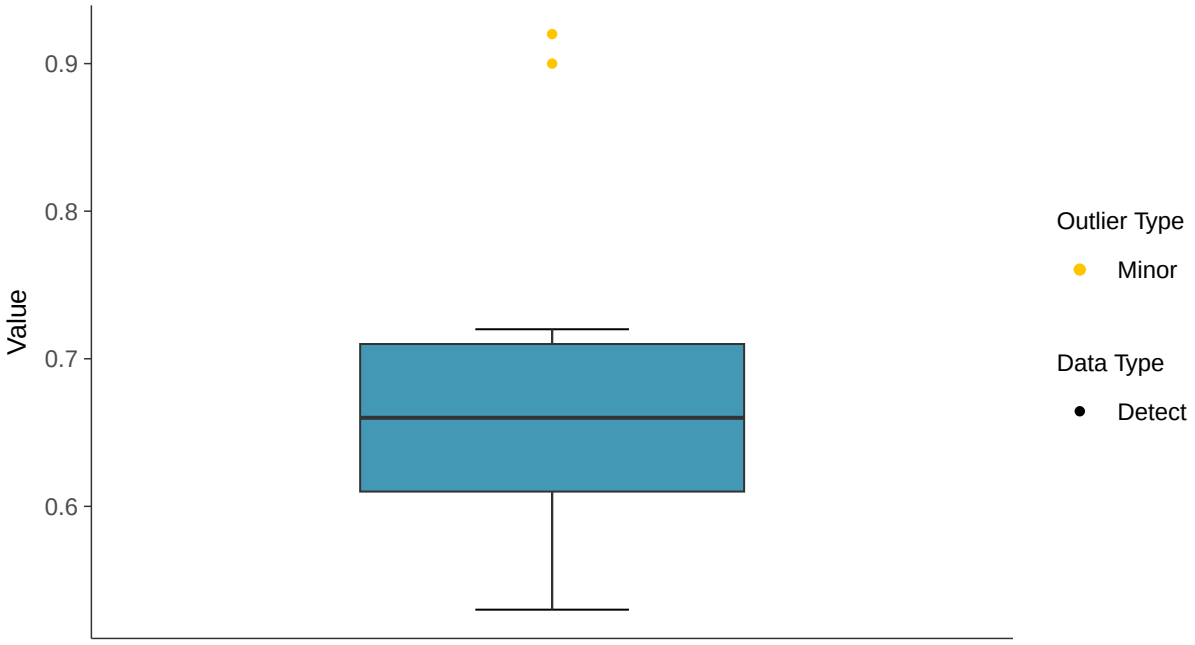
Histogram

Fluoride, MW-36 (mg/L)



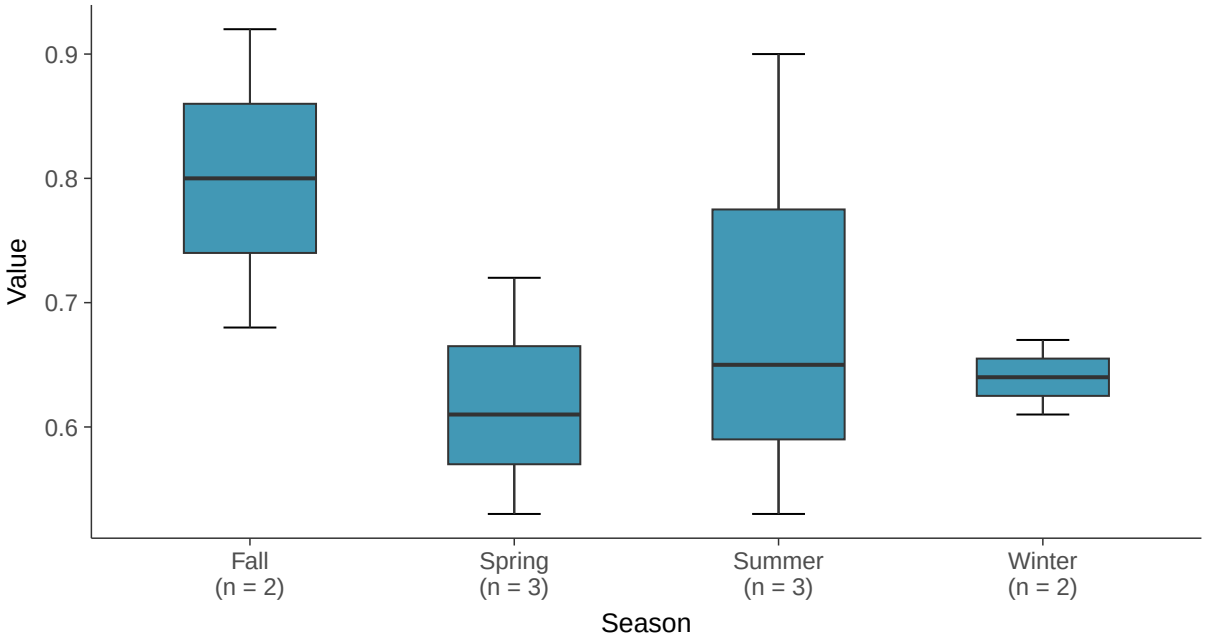
Boxplot

Fluoride, MW-36 (mg/L)



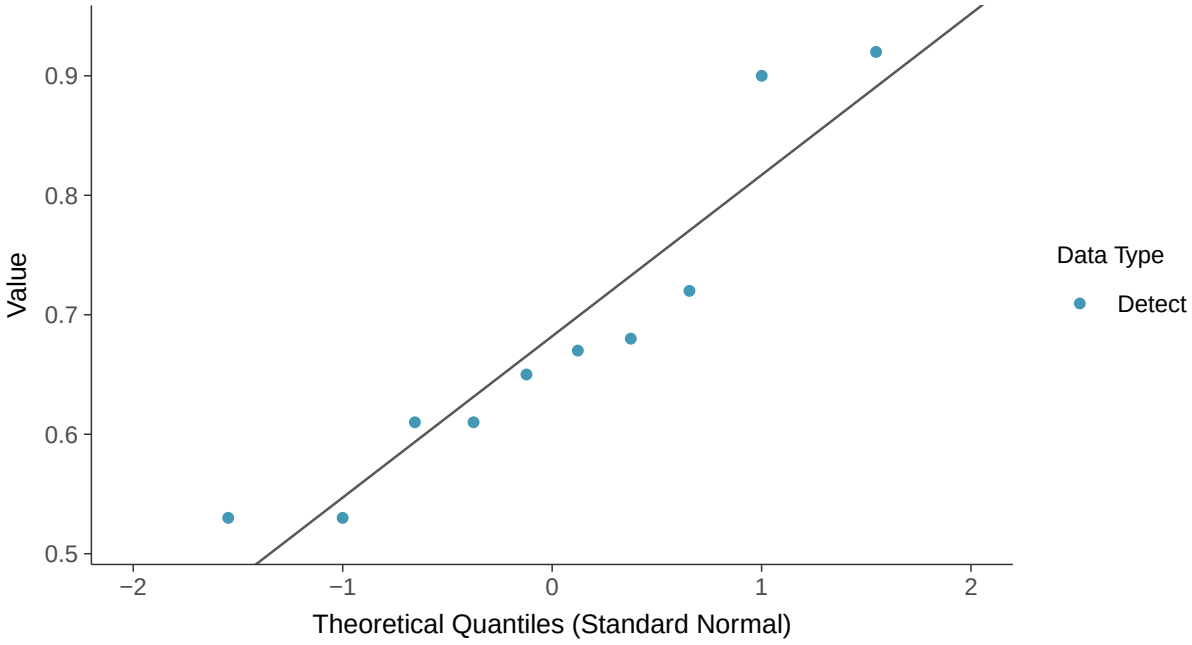
Boxplot by Season

Fluoride, MW-36 (mg/L)



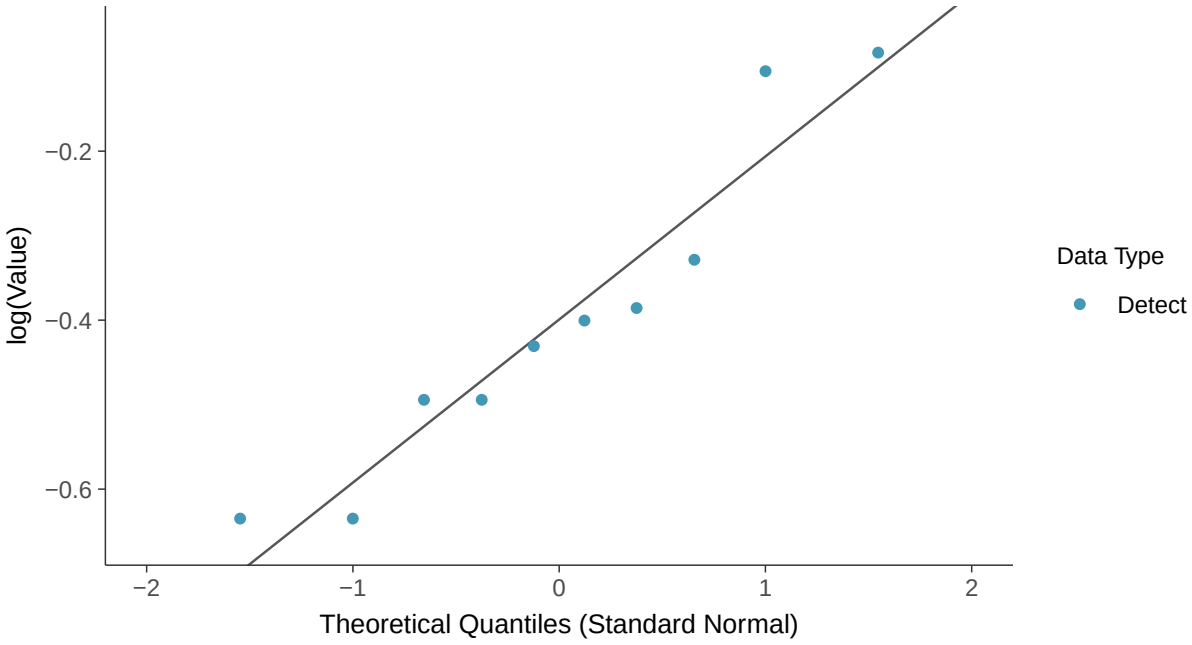
Normal Q-Q plot

Fluoride, MW-36 (mg/L)



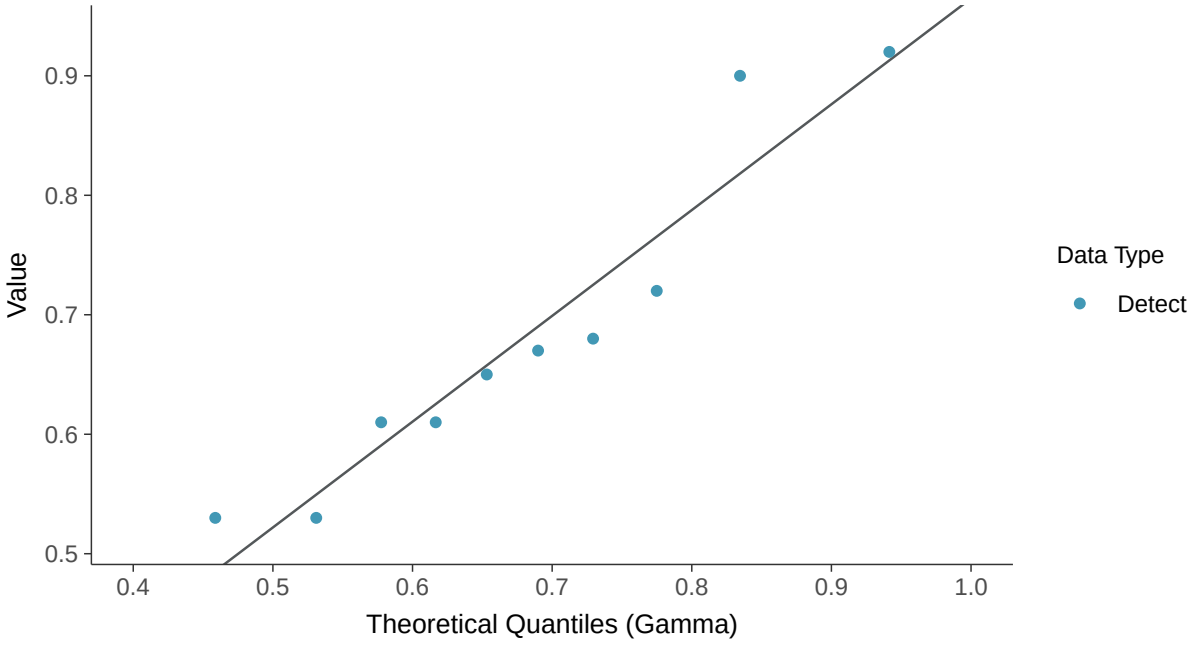
Lognormal Q-Q plot

Fluoride, MW-36 (mg/L)



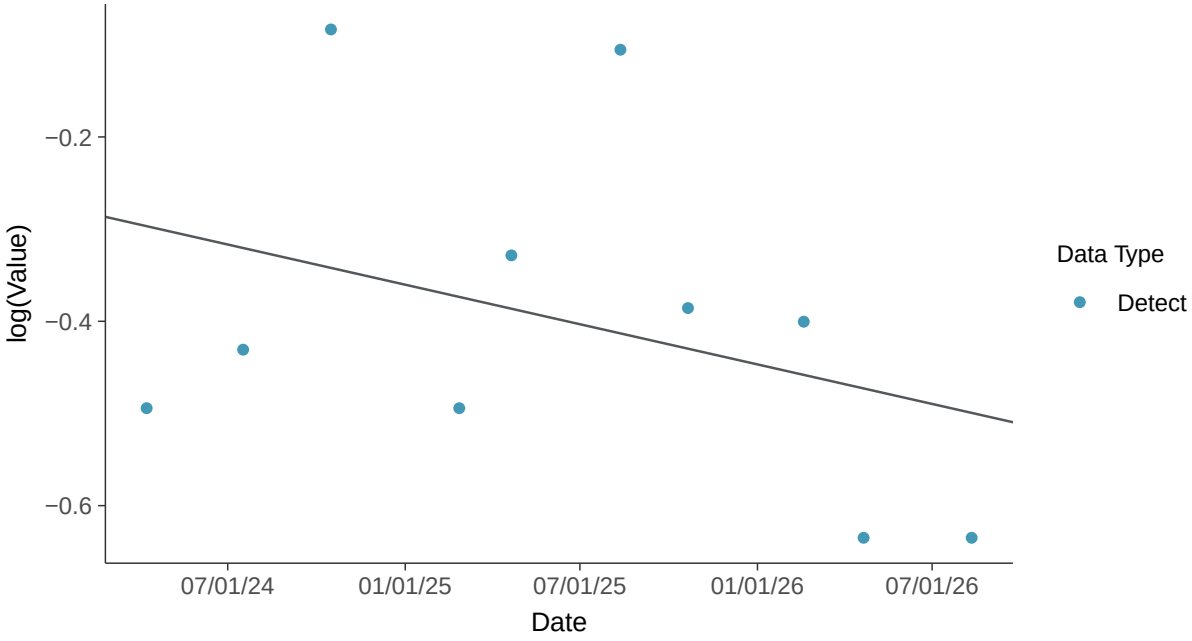
Gamma Q-Q plot

Fluoride, MW-36 (mg/L)



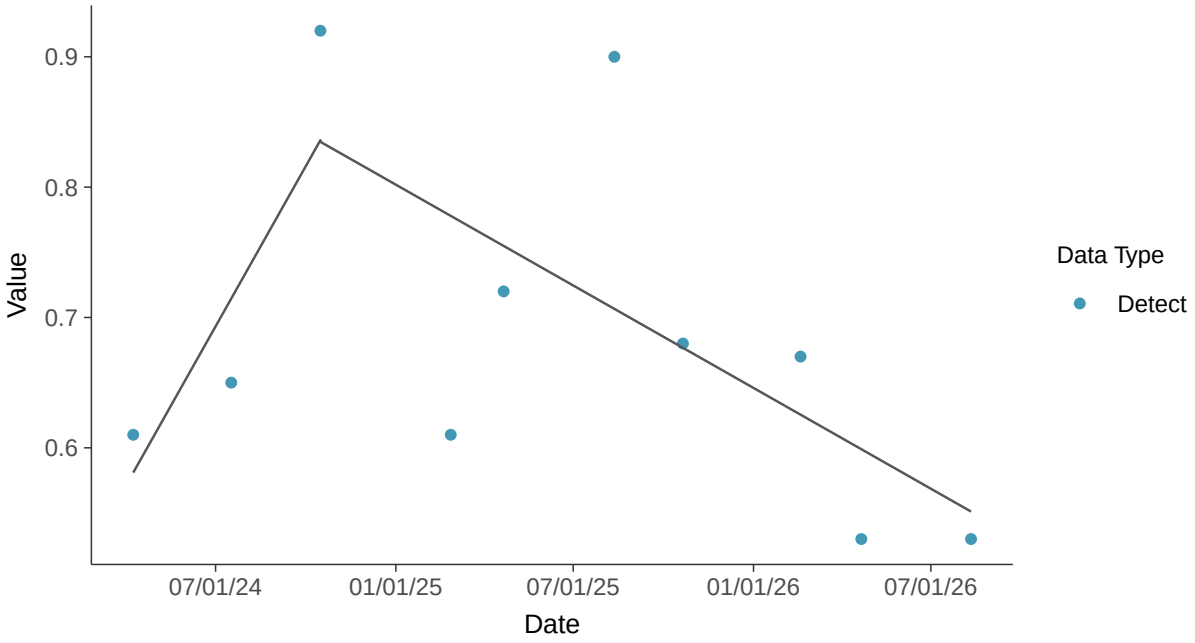
Trend Regression: Lognormal MLE

Fluoride, MW-36 (mg/L)



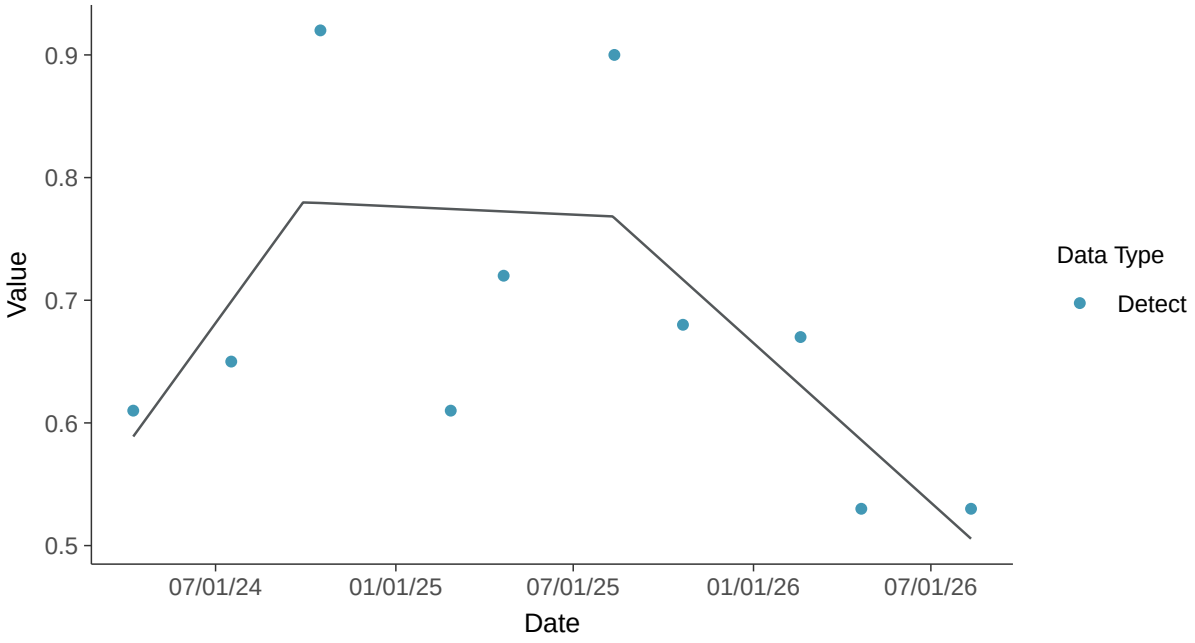
Trend Regression: Piecewise Linear-Linear

Fluoride, MW-36 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Fluoride, MW-36 (mg/L)

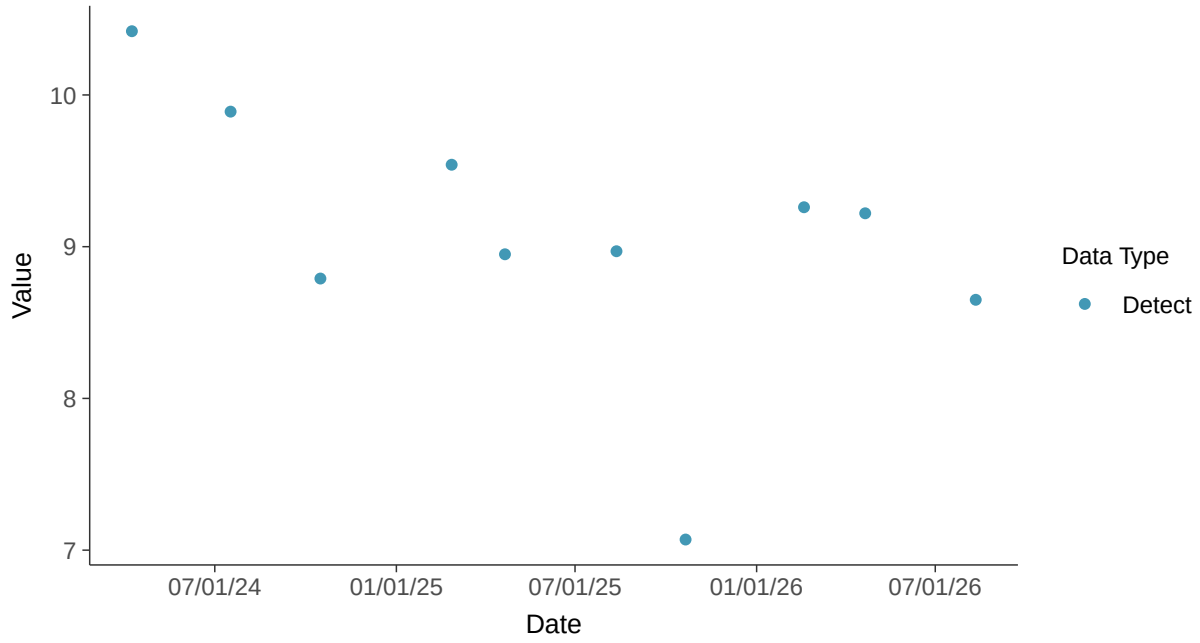


Appendix III: pH (field), MW-36

ID: 46_1_3_120

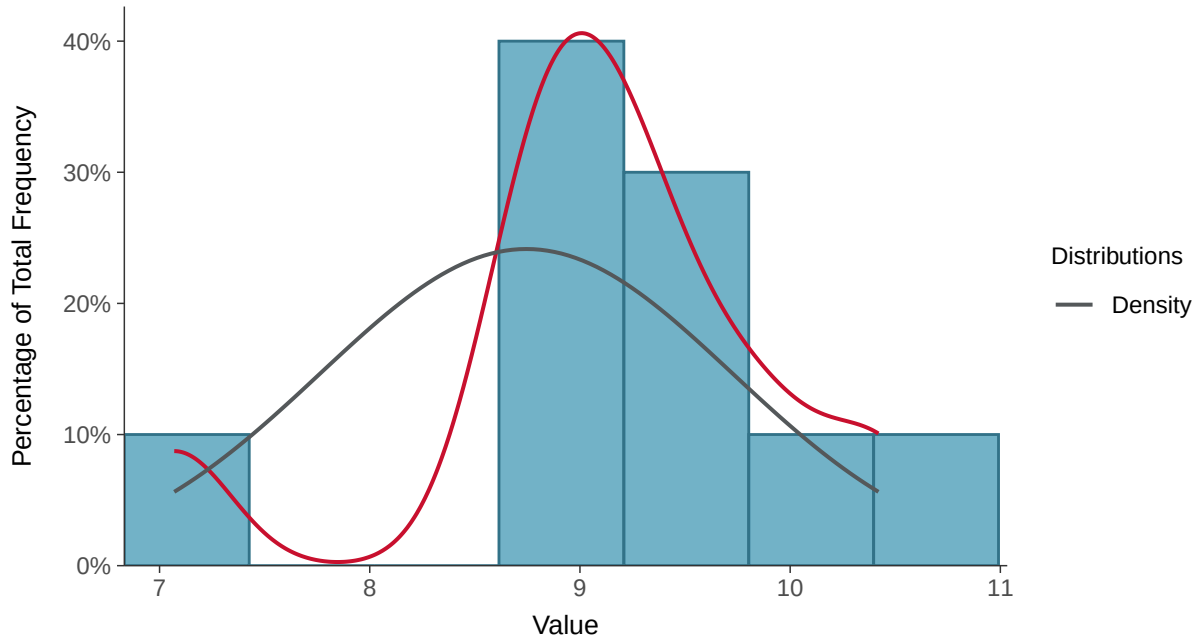
Scatter Plot

pH (field), MW-36 (su)



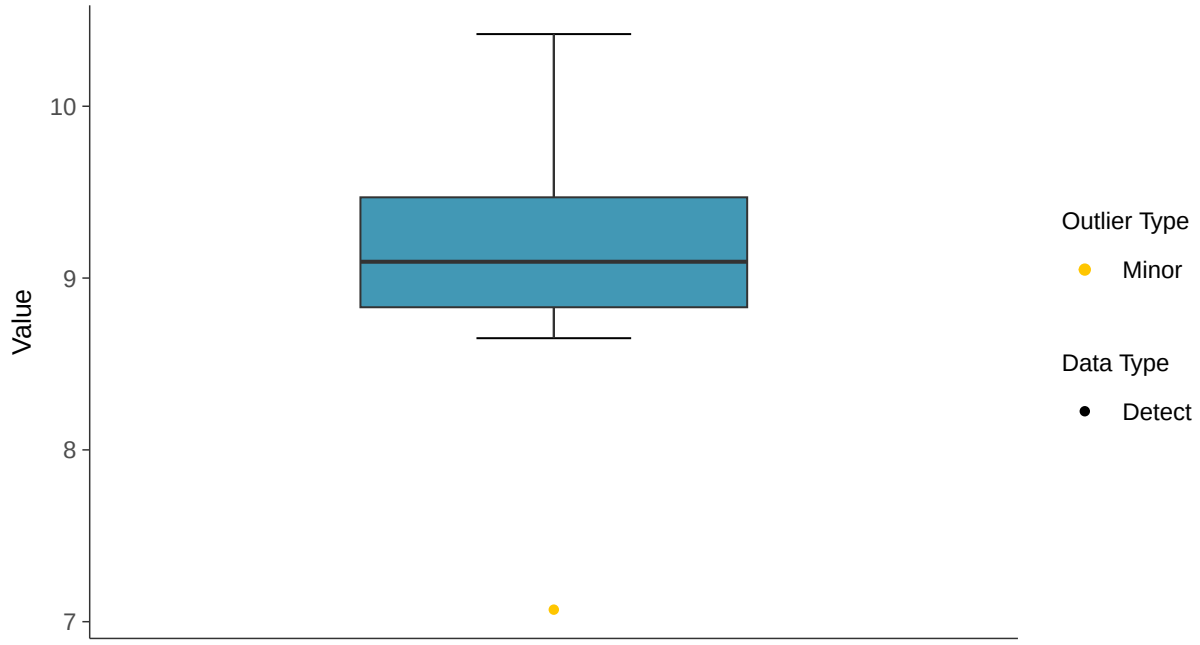
Histogram

pH (field), MW-36 (su)



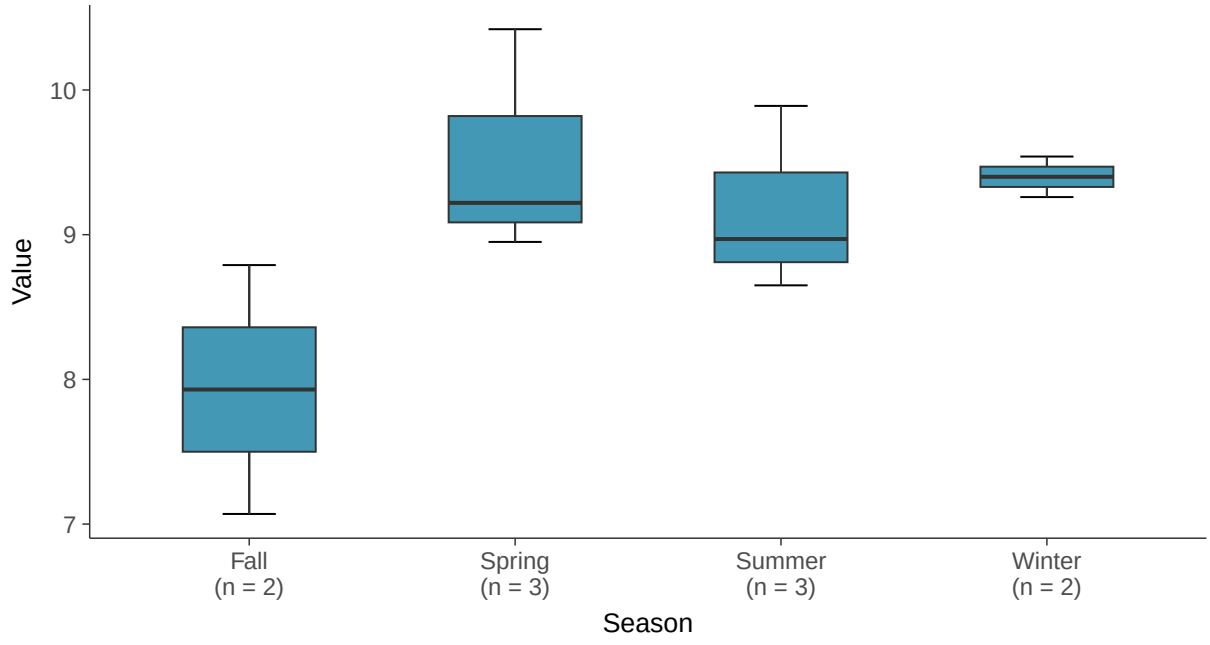
Boxplot

pH (field), MW-36 (su)



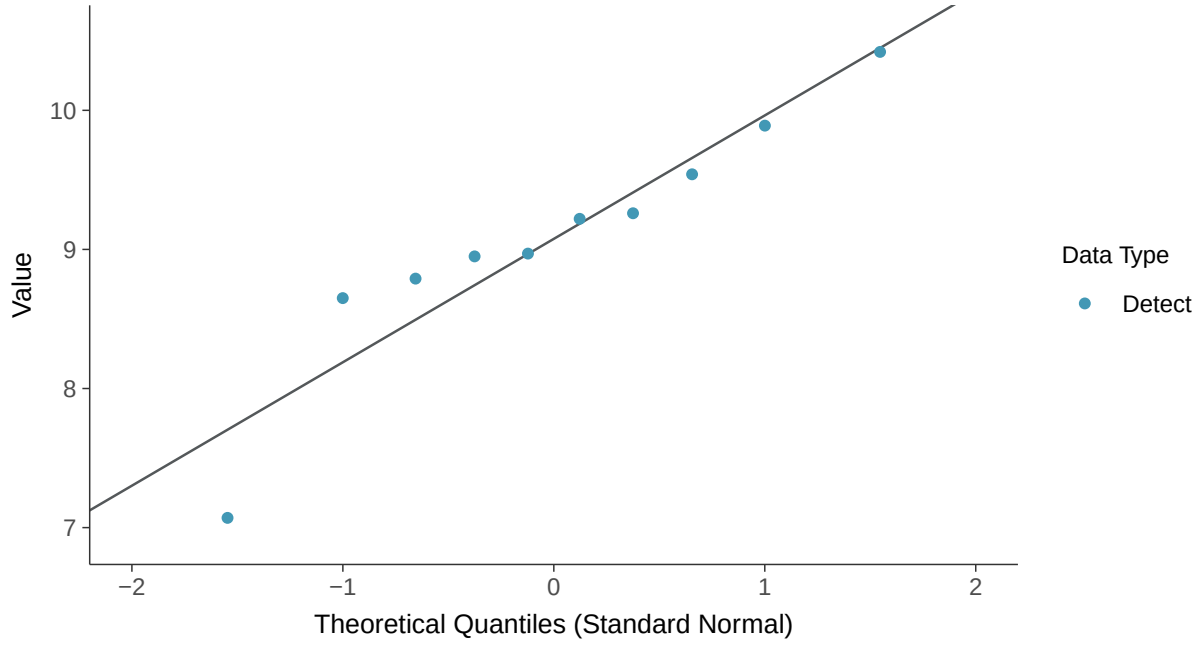
Boxplot by Season

pH (field), MW-36 (su)



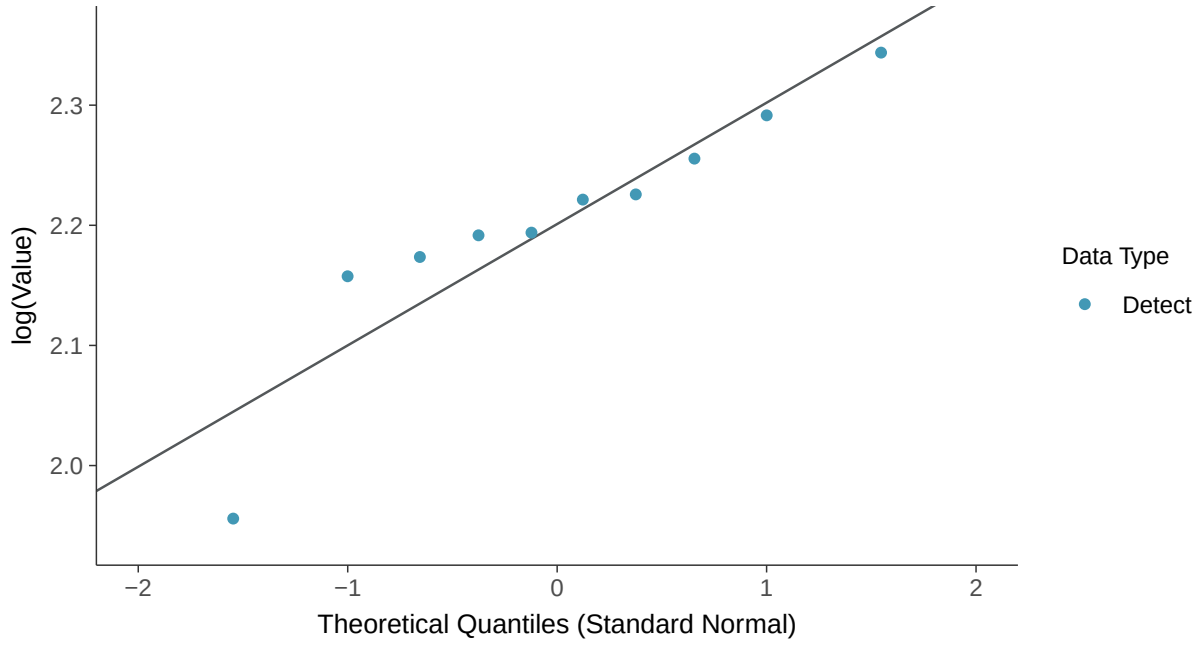
Normal Q-Q plot

pH (field), MW-36 (su)



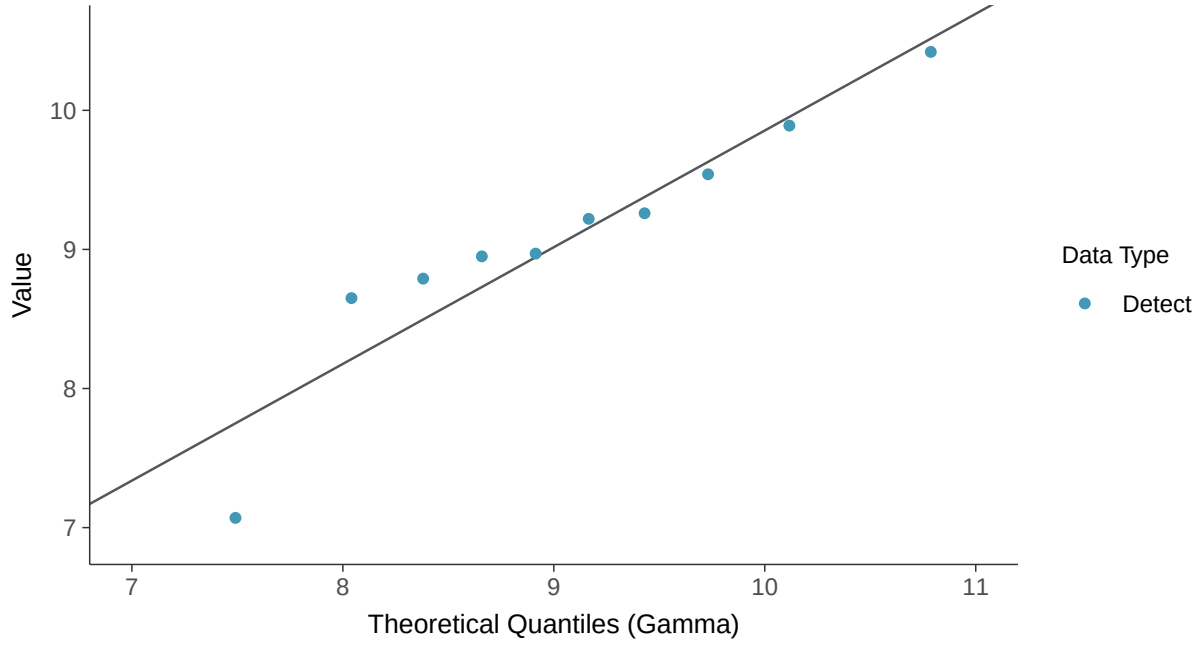
Lognormal Q-Q plot

pH (field), MW-36 (su)



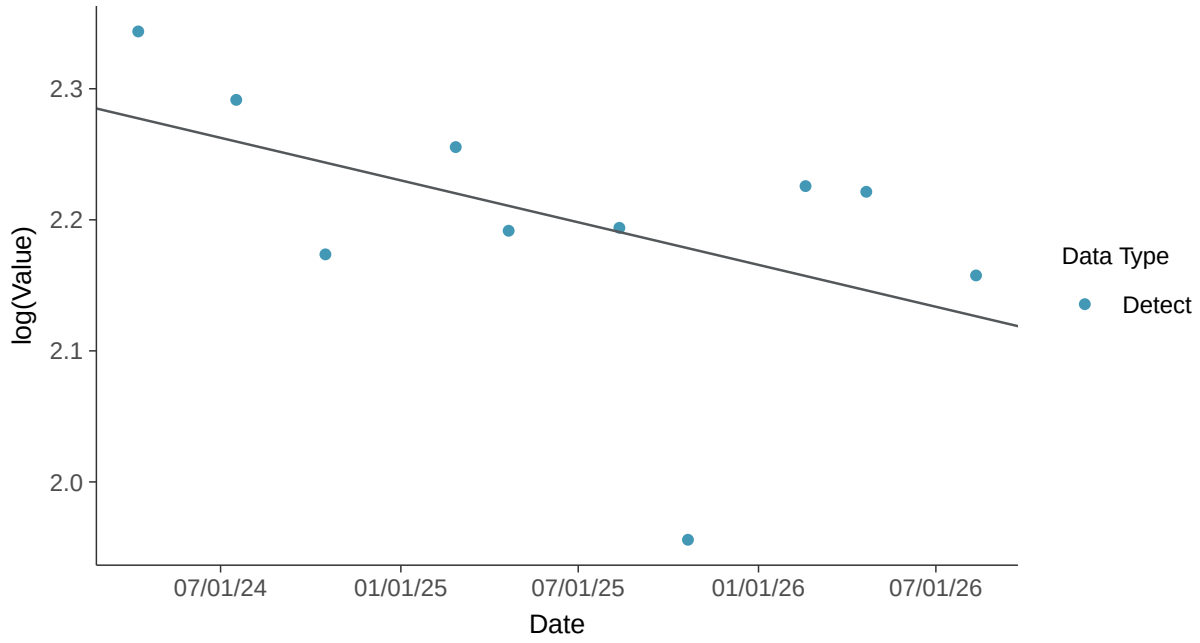
Gamma Q-Q plot

pH (field), MW-36 (su)



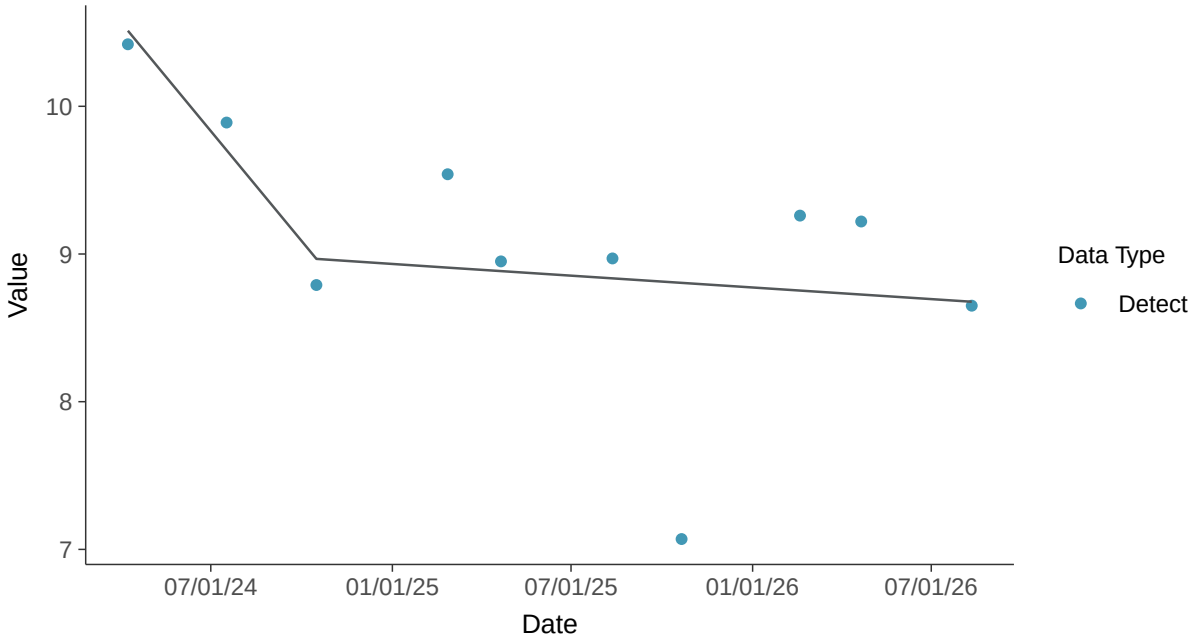
Trend Regression: Lognormal MLE

pH (field), MW-36 (su)



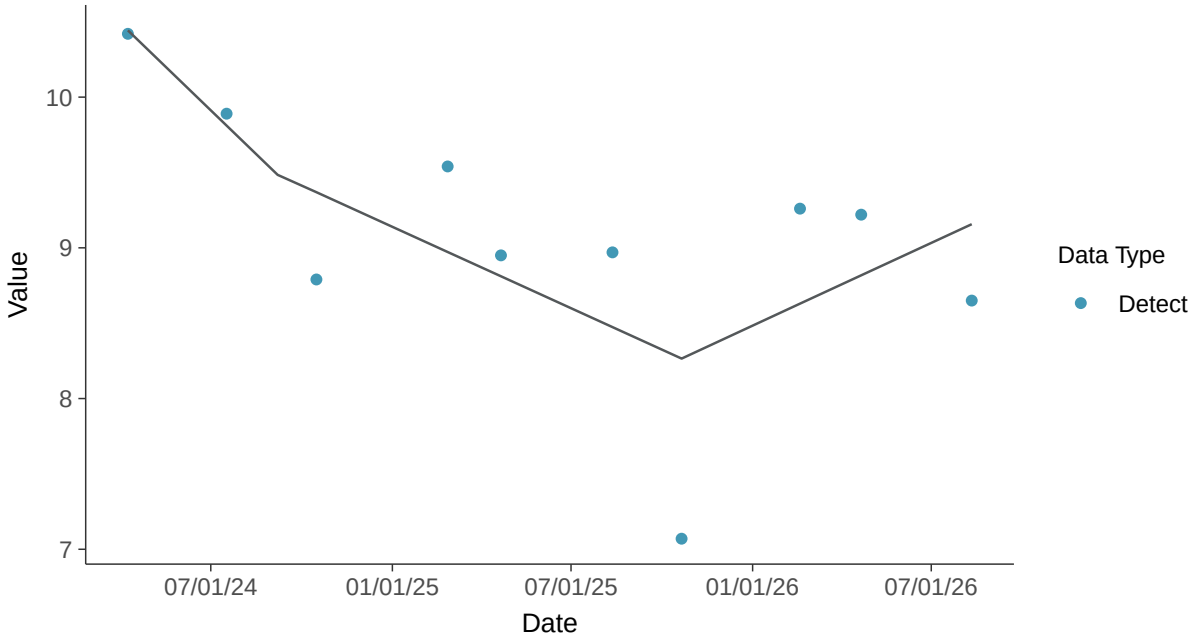
Trend Regression: Piecewise Linear-Linear

pH (field), MW-36 (su)



Trend Regression: Piecewise Linear-Linear-Linear

pH (field), MW-36 (su)

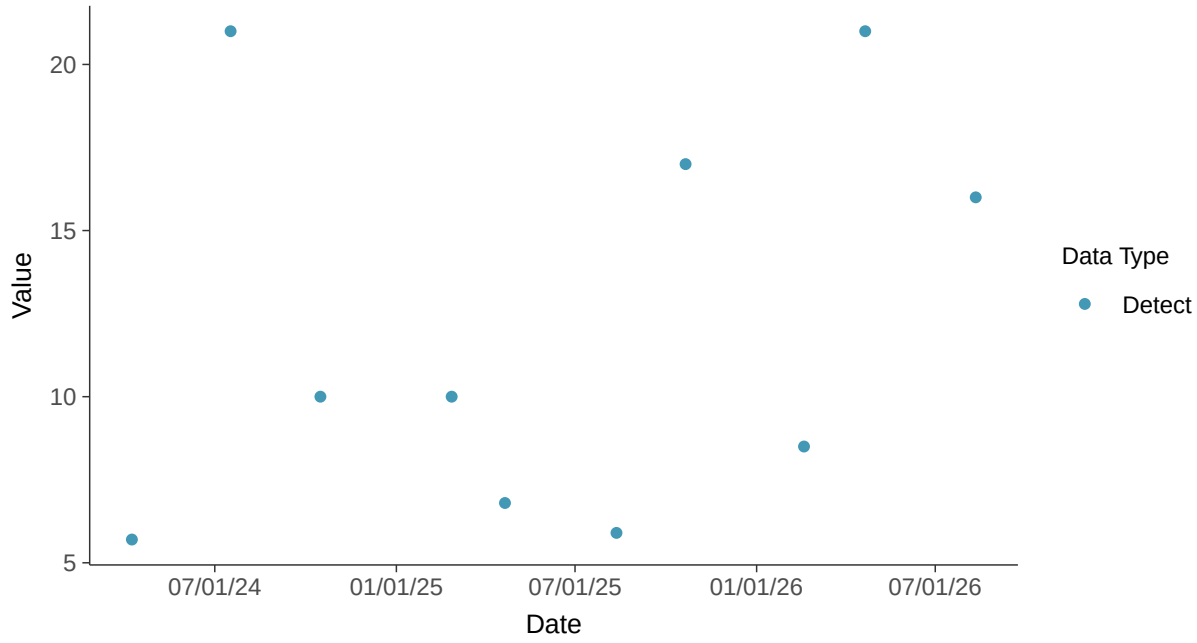


Appendix III: Sulfate (as SO4), MW-36

ID: 46_1_3_124

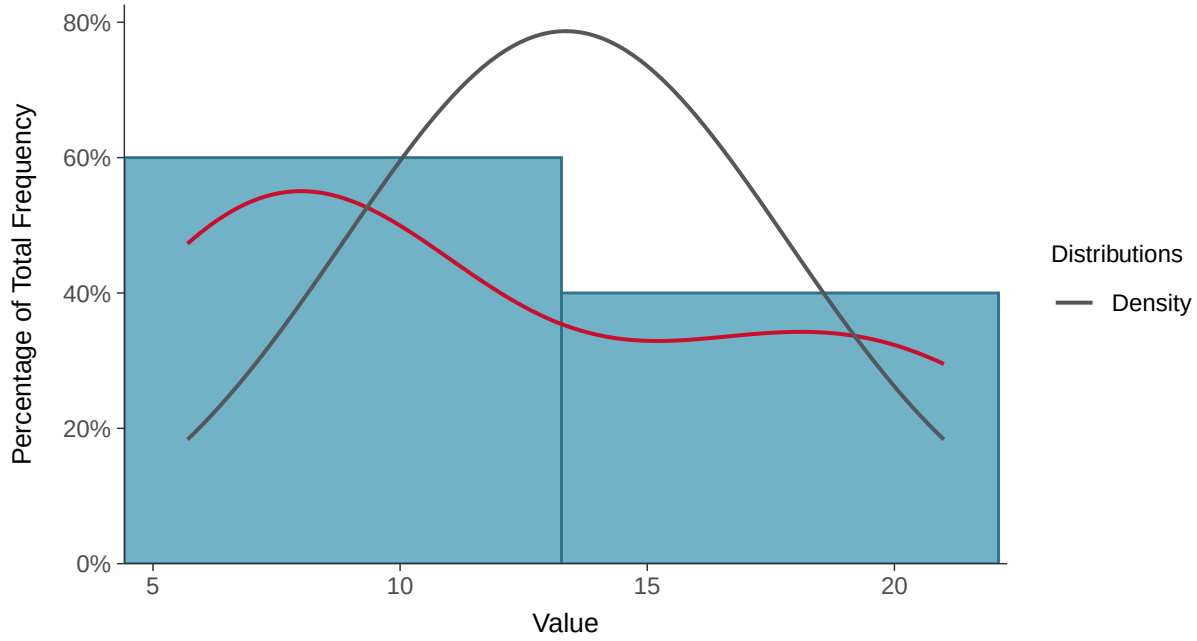
Scatter Plot

Sulfate (as SO4), MW-36 (mg/L)



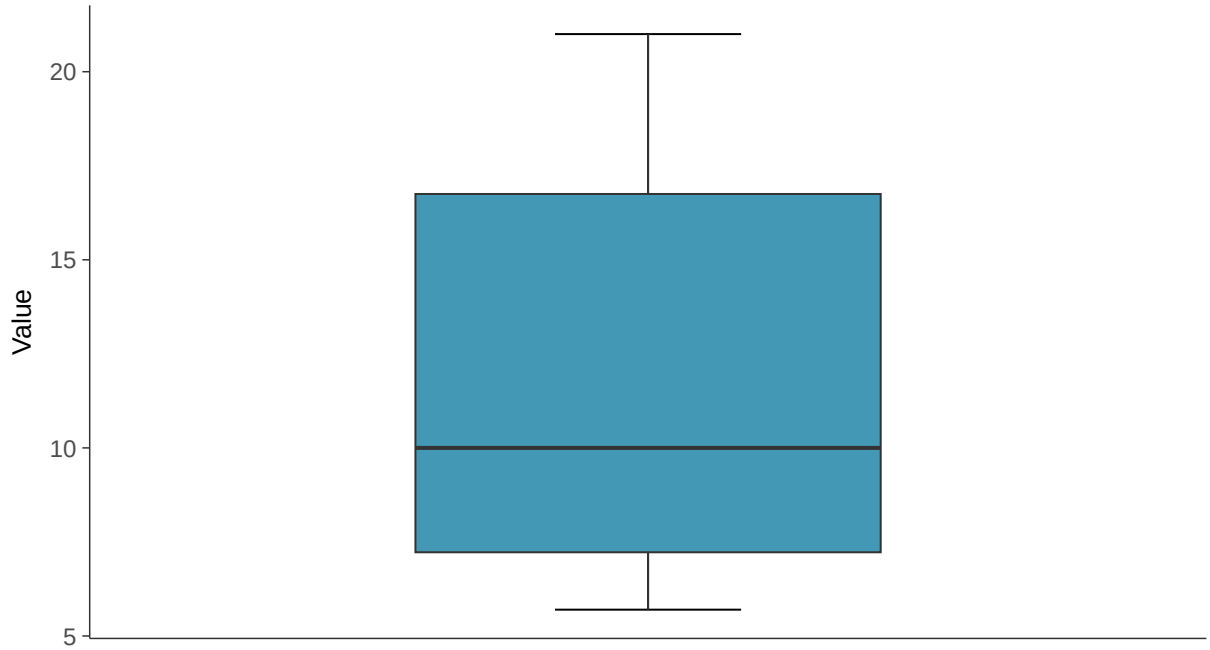
Histogram

Sulfate (as SO4), MW-36 (mg/L)



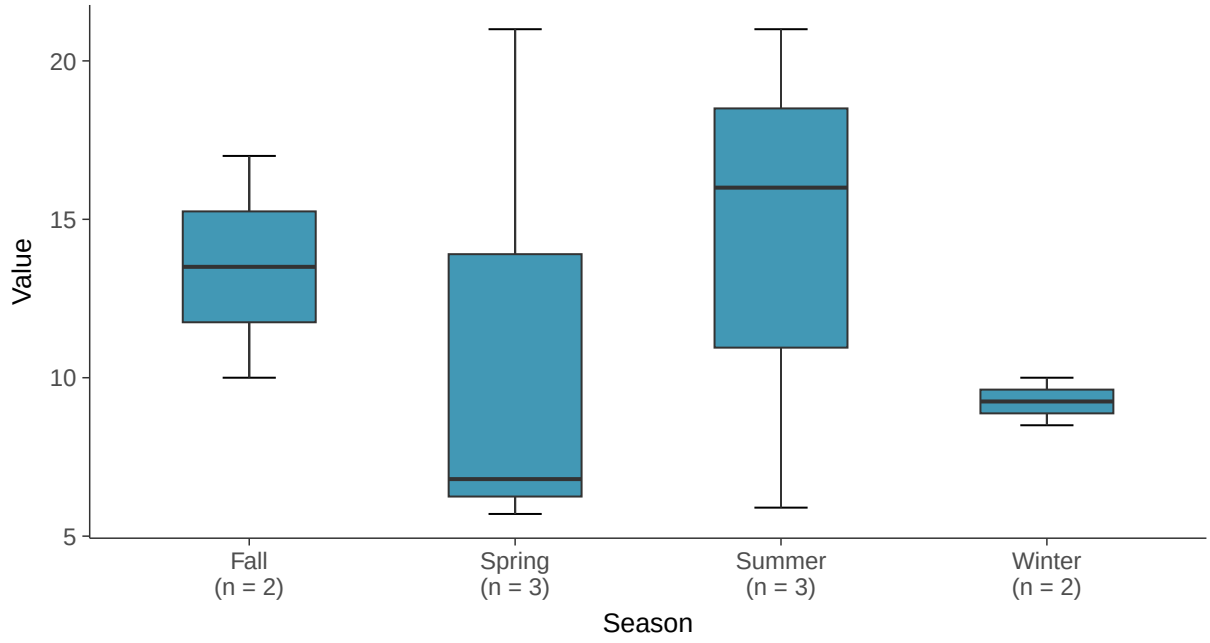
Boxplot

Sulfate (as SO4), MW-36 (mg/L)



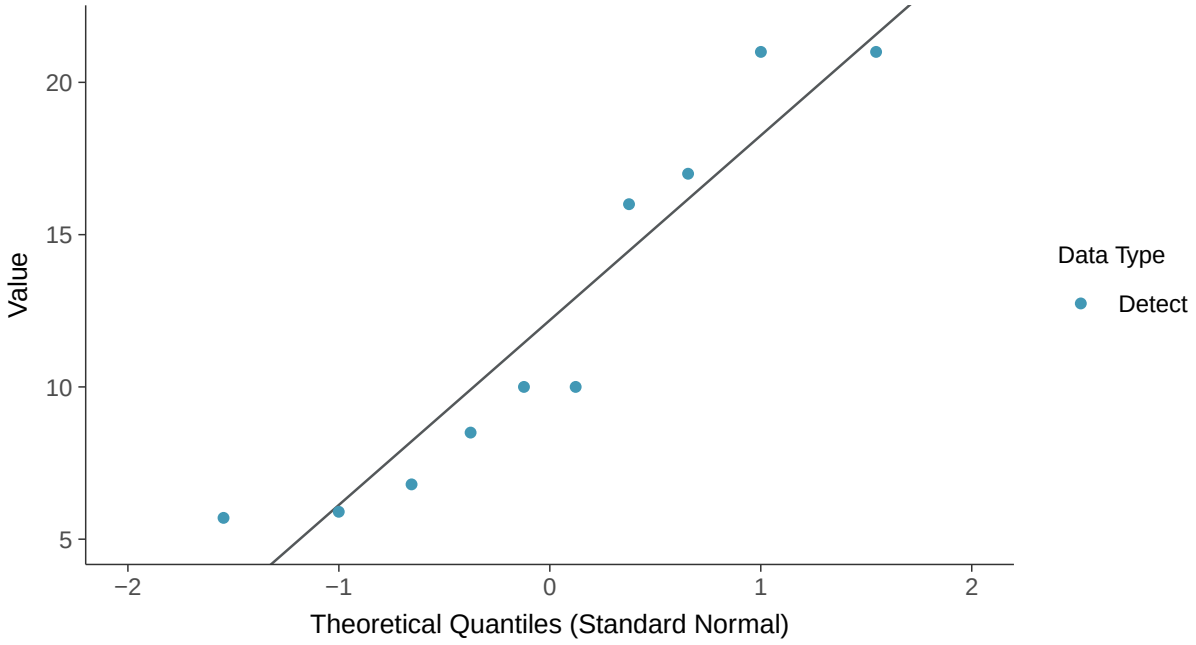
Boxplot by Season

Sulfate (as SO4), MW-36 (mg/L)



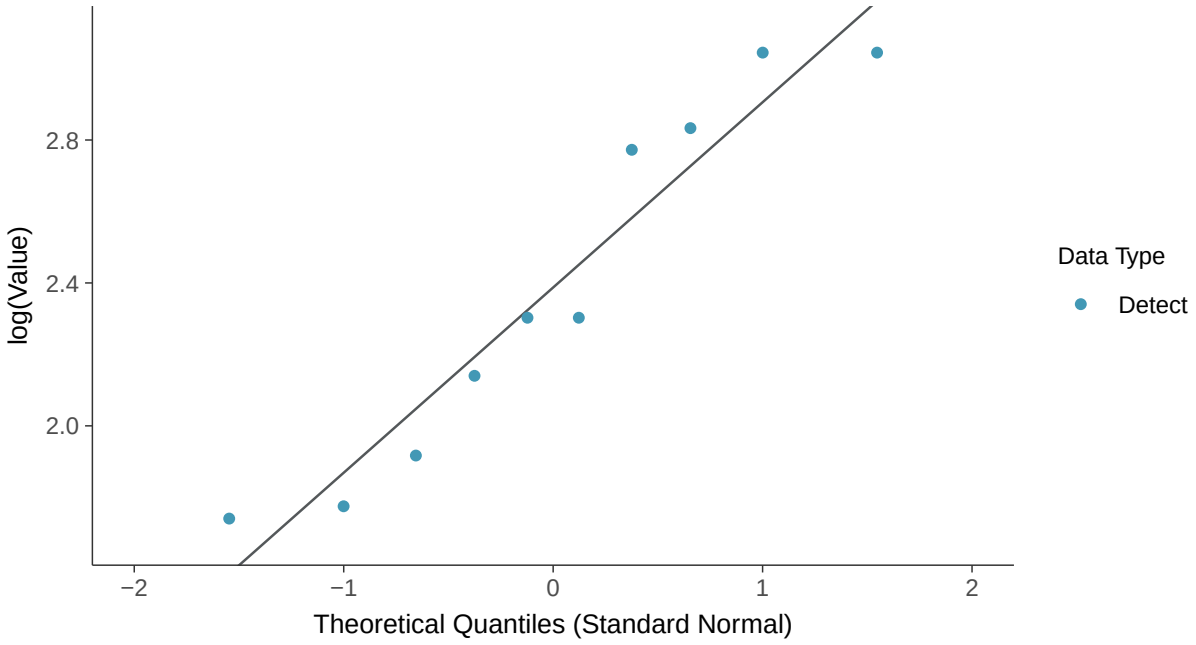
Normal Q-Q plot

Sulfate (as SO4), MW-36 (mg/L)



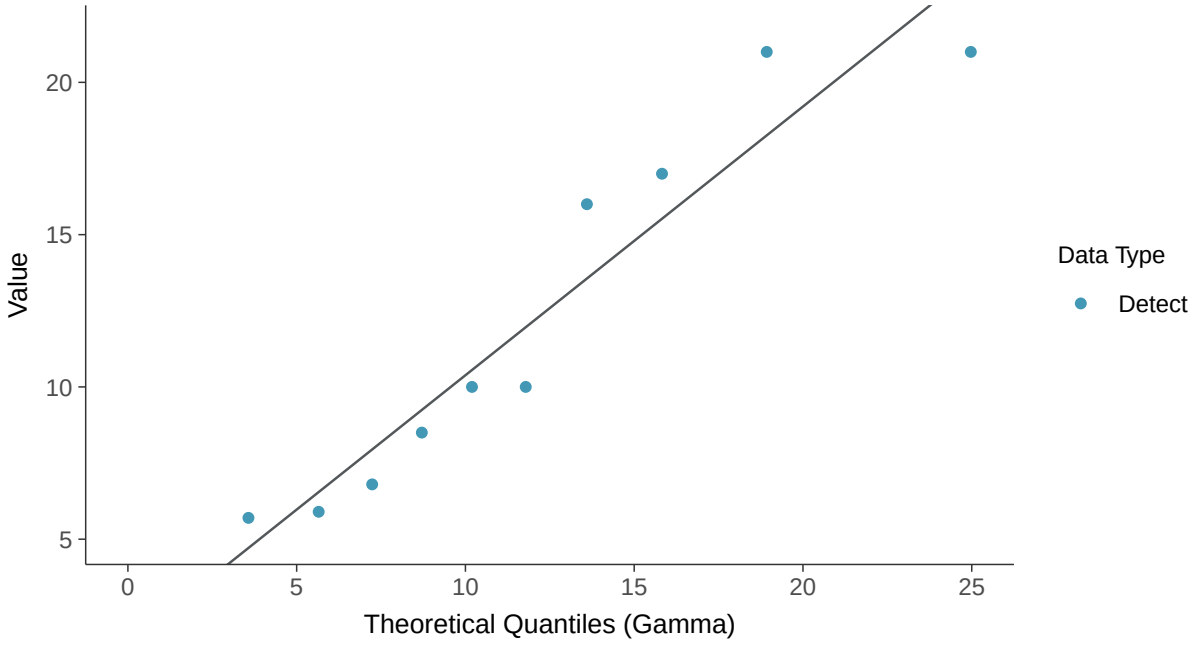
Lognormal Q-Q plot

Sulfate (as SO4), MW-36 (mg/L)



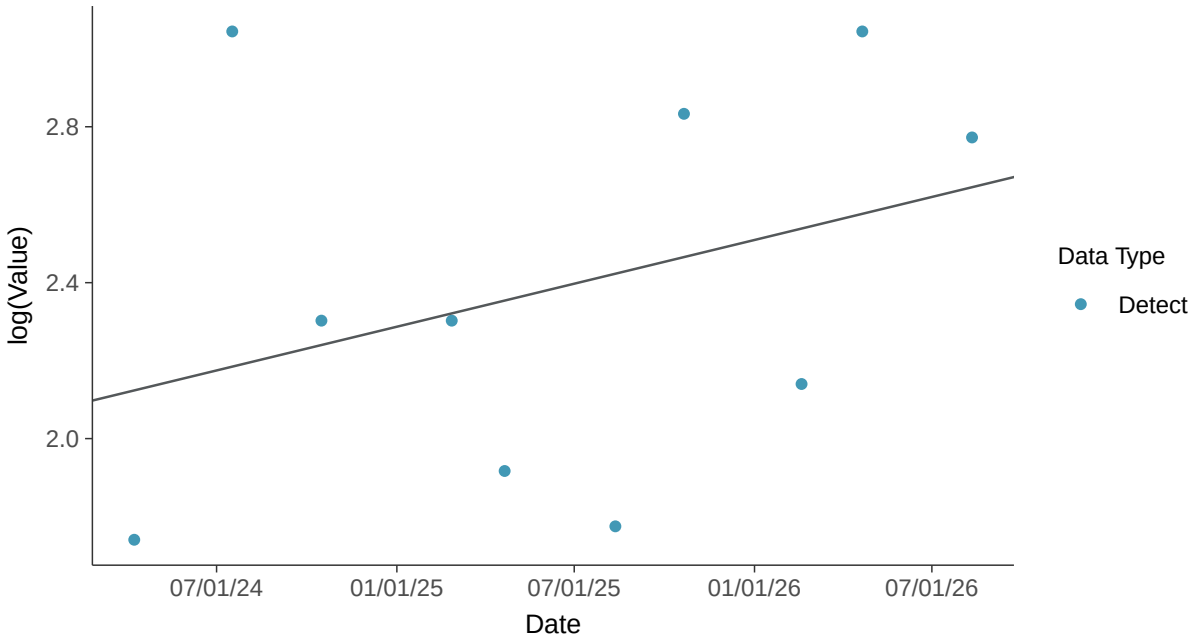
Gamma Q-Q plot

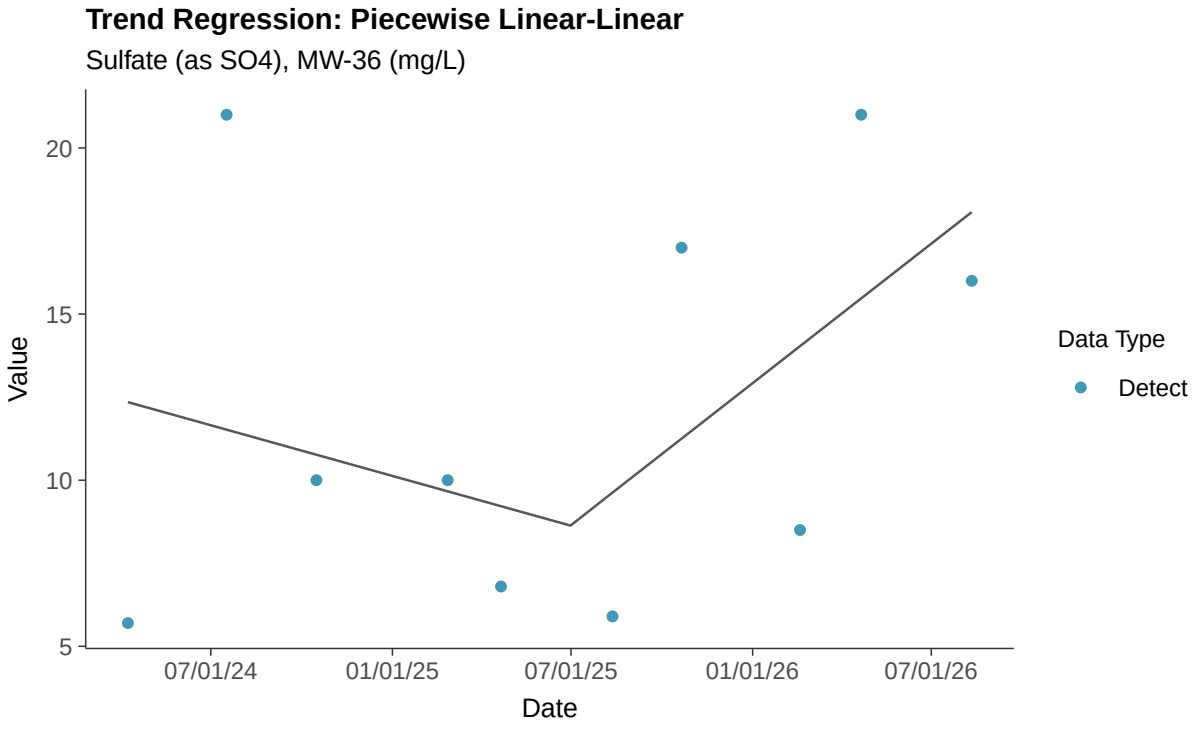
Sulfate (as SO4), MW-36 (mg/L)



Trend Regression: Lognormal MLE

Sulfate (as SO4), MW-36 (mg/L)



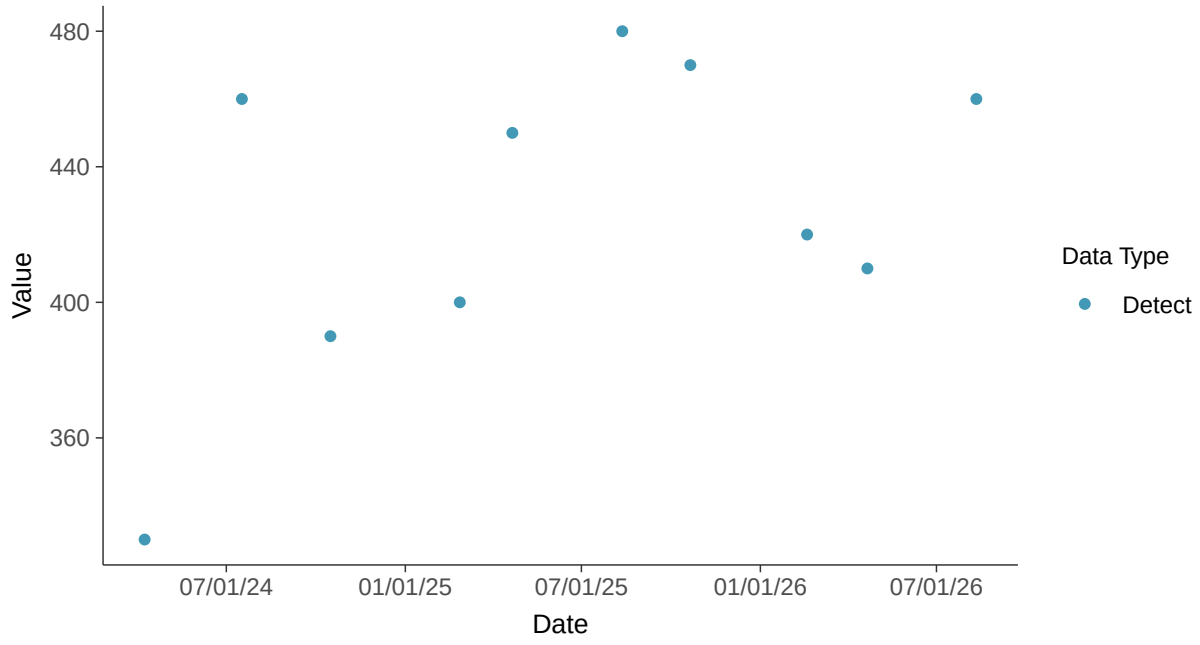

Trend Regression: Piecewise Linear-Linear
Sulfate (as SO4), MW-36 (mg/L)
Value
20
15
10
5
07/01/24
01/01/25
07/01/25
01/01/26
07/01/26
Date
Data Type
Detect

Appendix III: Total Dissolved Solids, MW-36

ID: 46_1_3_126

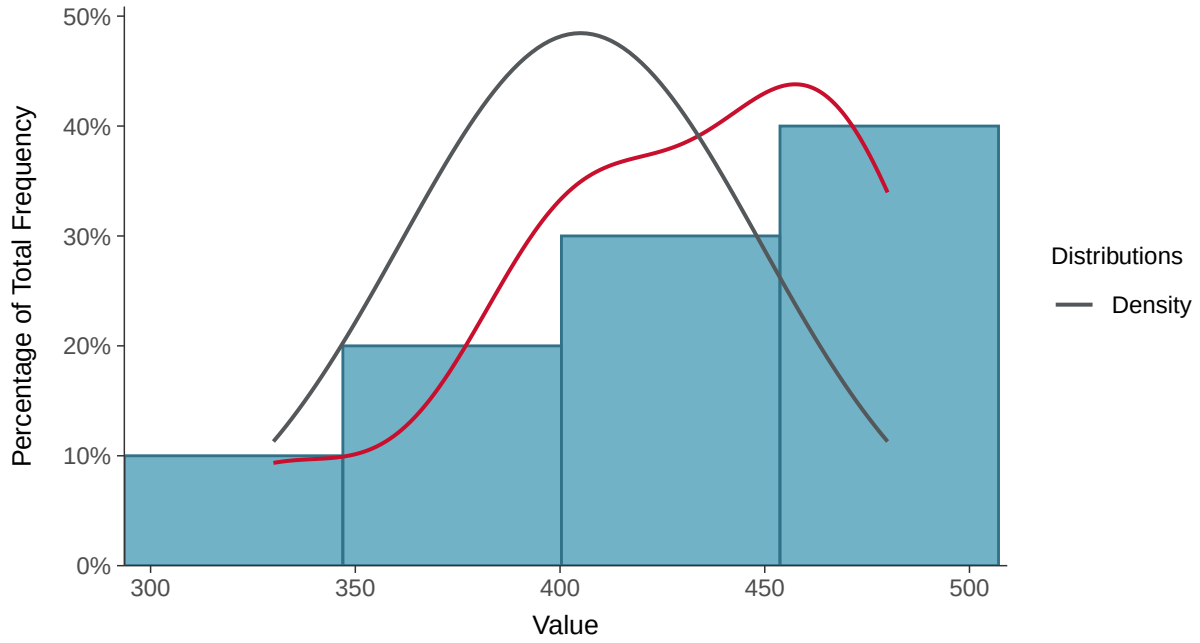
Scatter Plot

Total Dissolved Solids, MW-36 (mg/L)



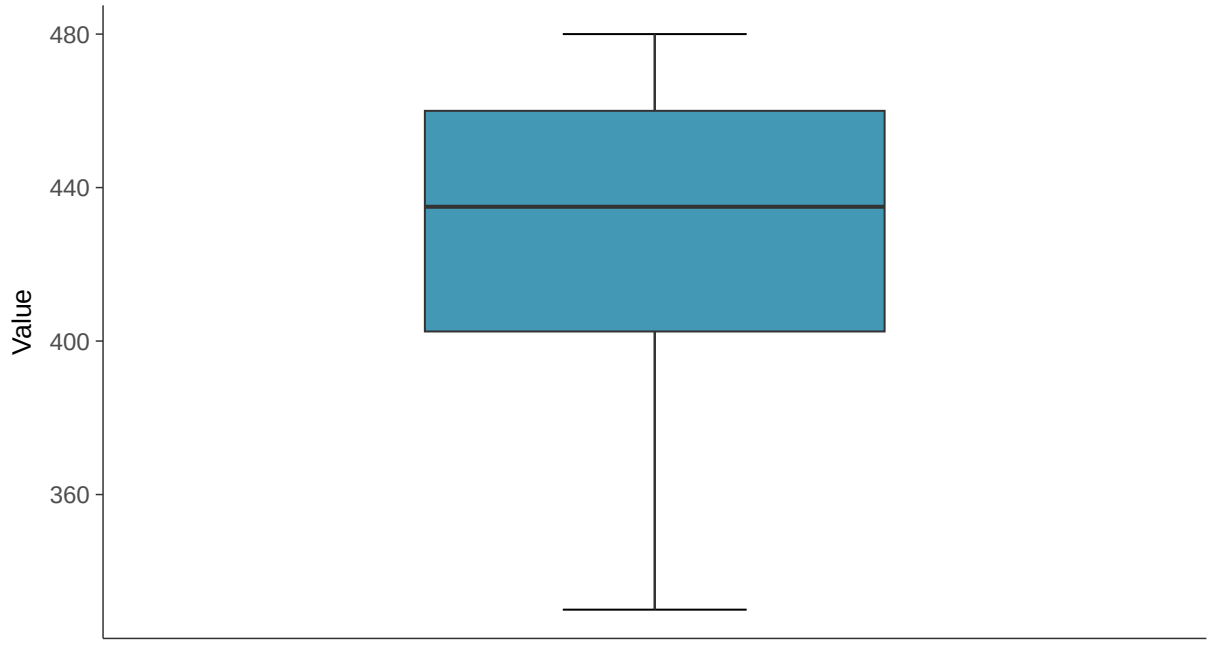
Histogram

Total Dissolved Solids, MW-36 (mg/L)



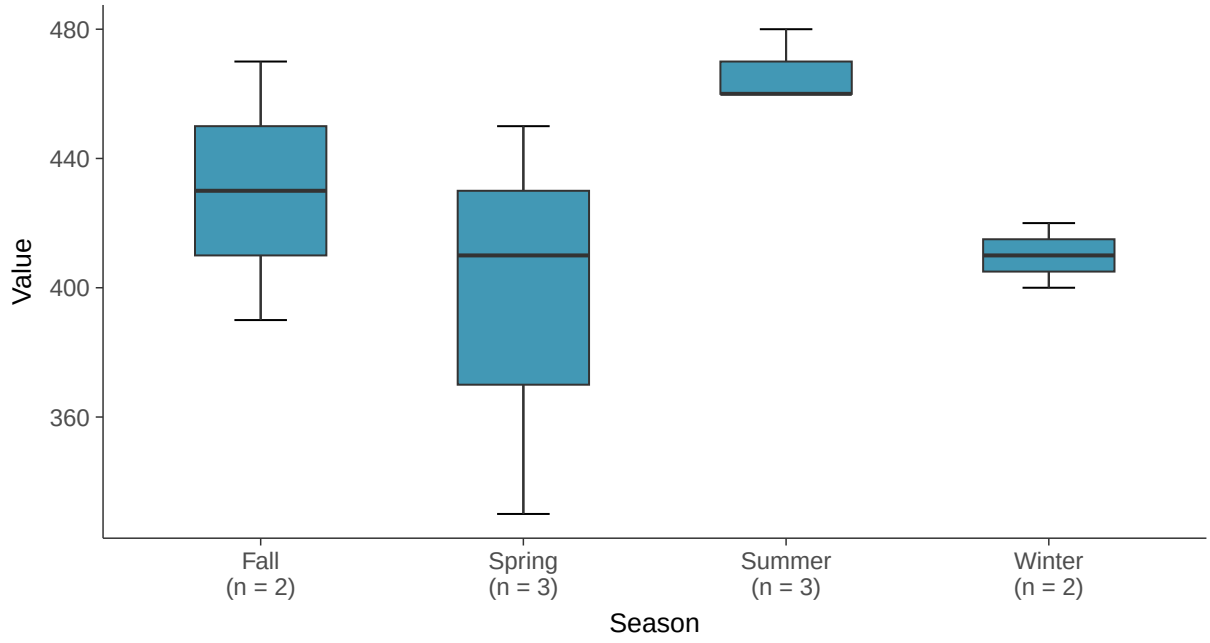
Boxplot

Total Dissolved Solids, MW-36 (mg/L)



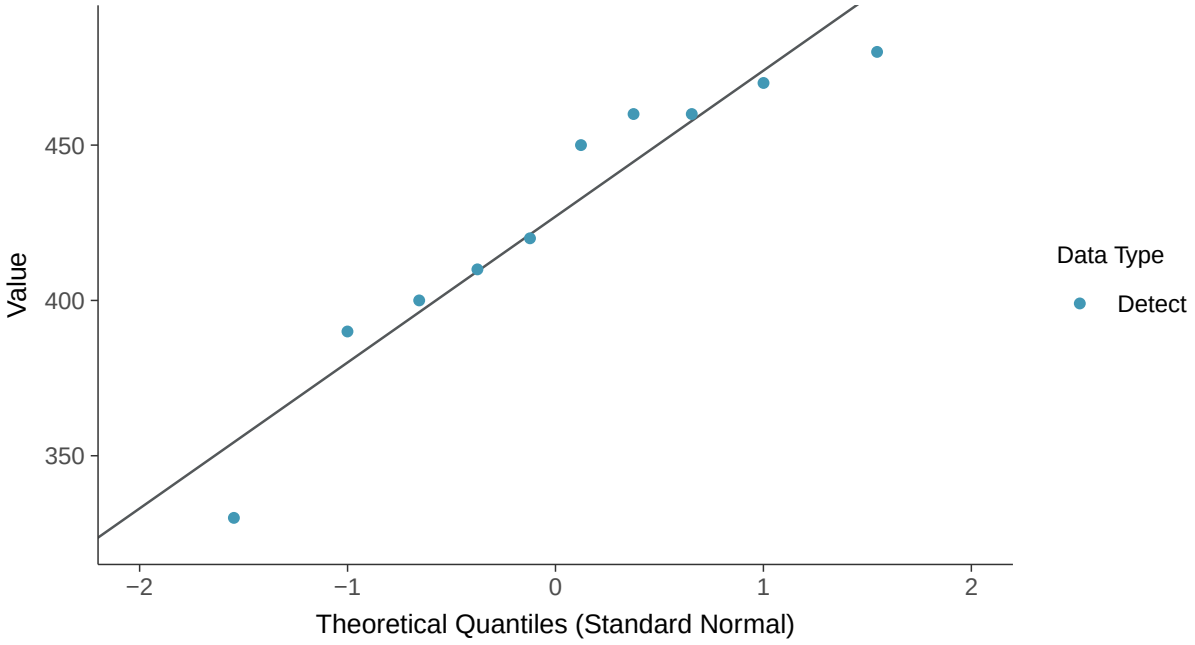
Boxplot by Season

Total Dissolved Solids, MW-36 (mg/L)



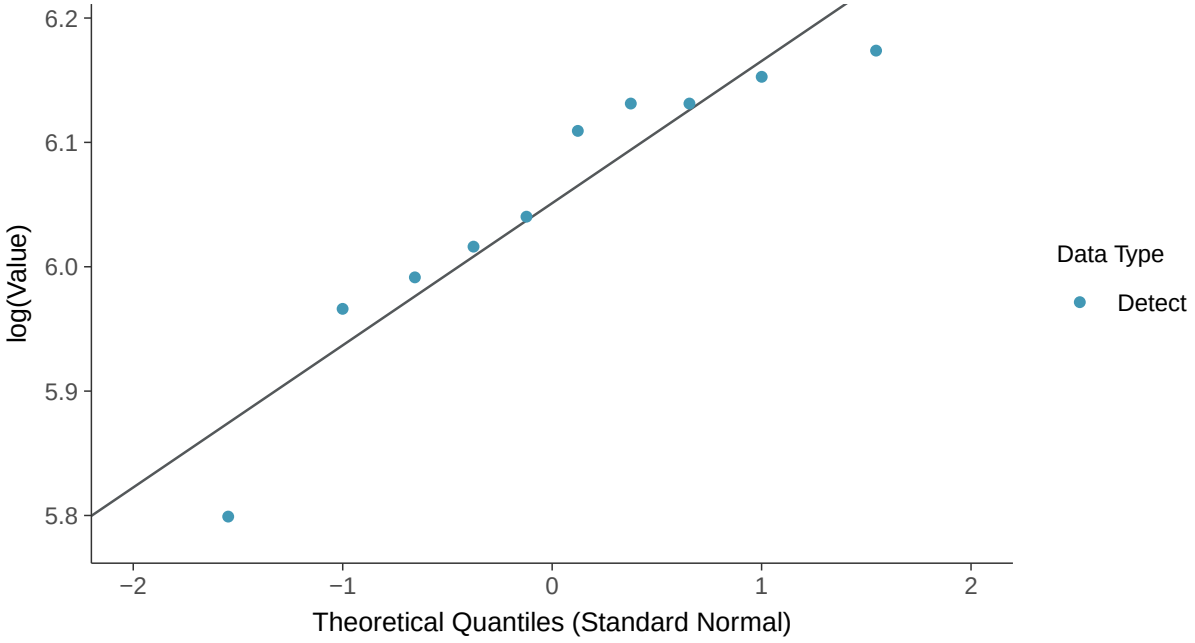
Normal Q-Q plot

Total Dissolved Solids, MW-36 (mg/L)



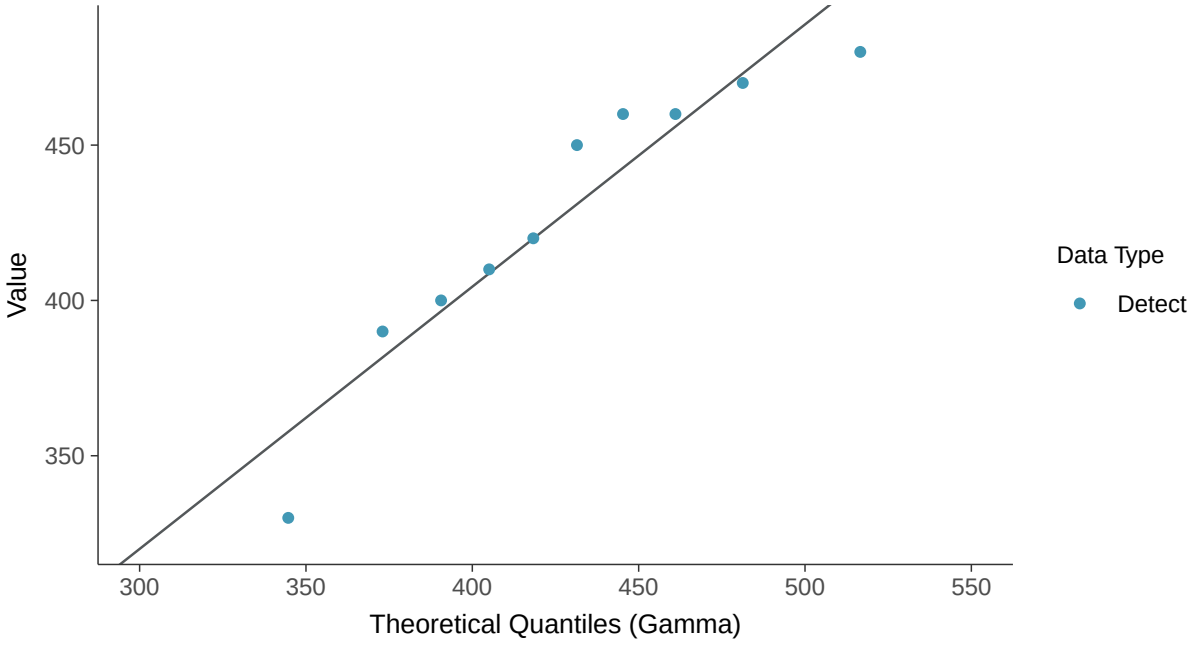
Lognormal Q-Q plot

Total Dissolved Solids, MW-36 (mg/L)



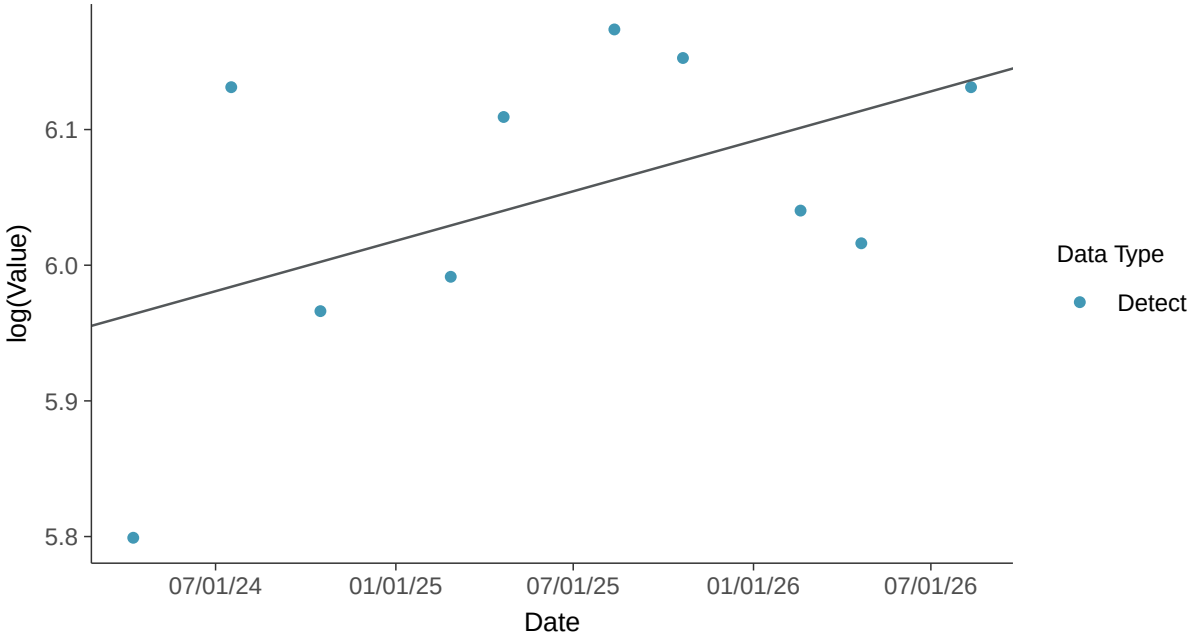
Gamma Q-Q plot

Total Dissolved Solids, MW-36 (mg/L)



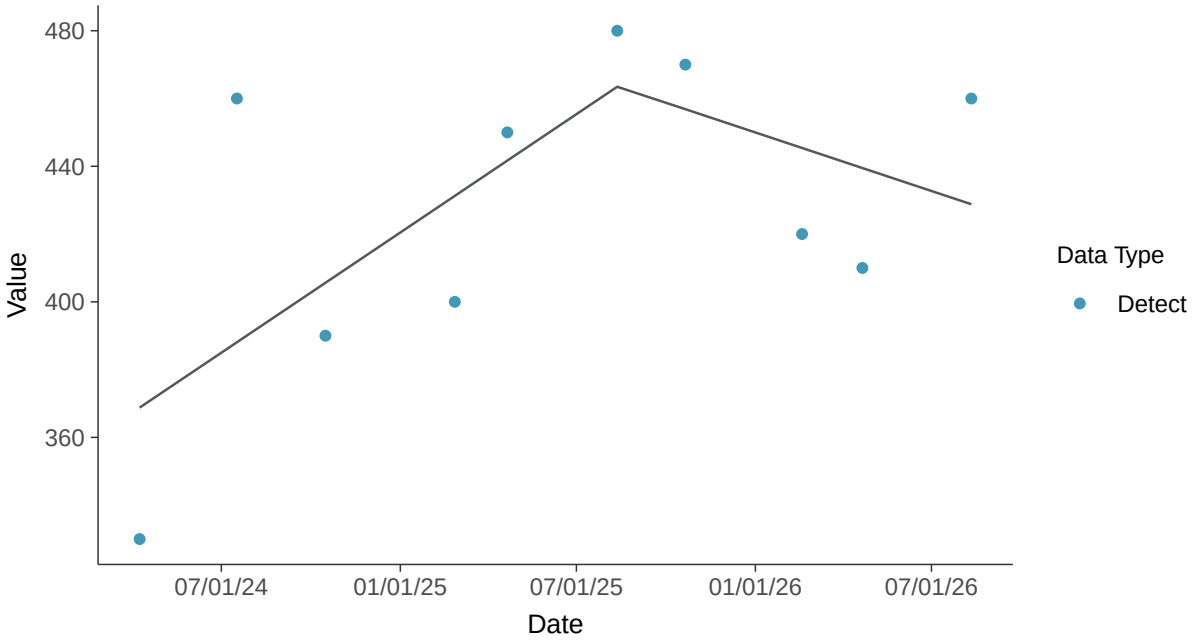
Trend Regression: Lognormal MLE

Total Dissolved Solids, MW-36 (mg/L)



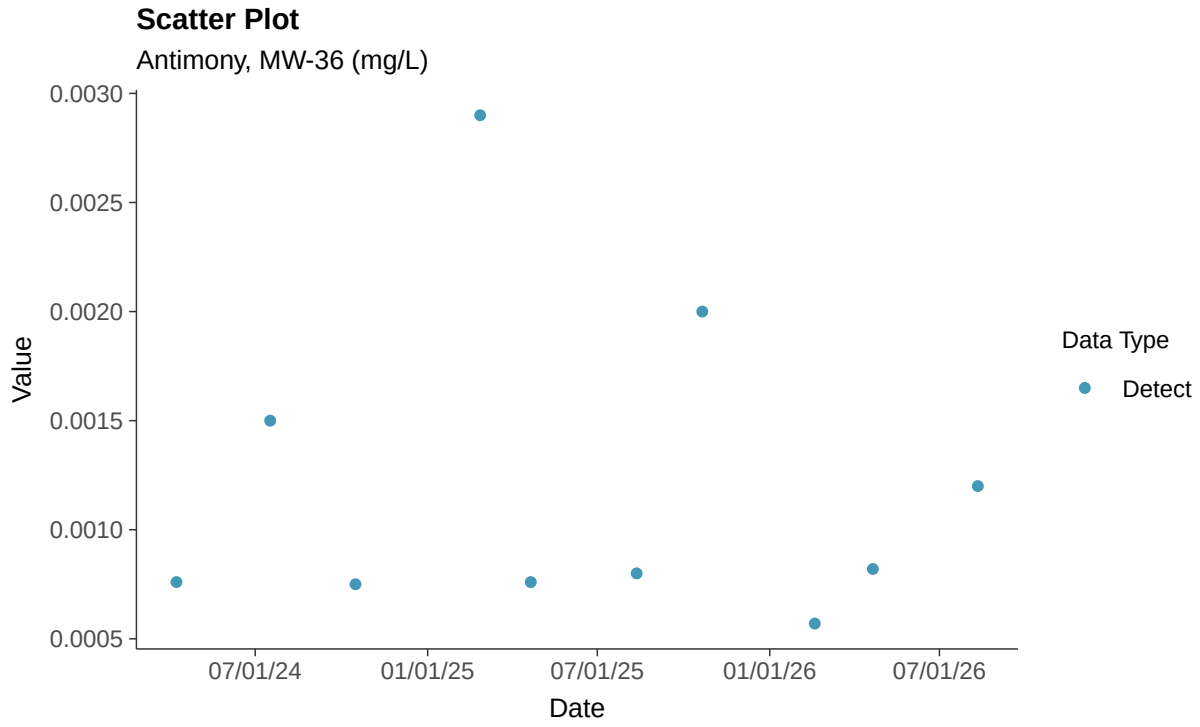
Trend Regression: Piecewise Linear-Linear

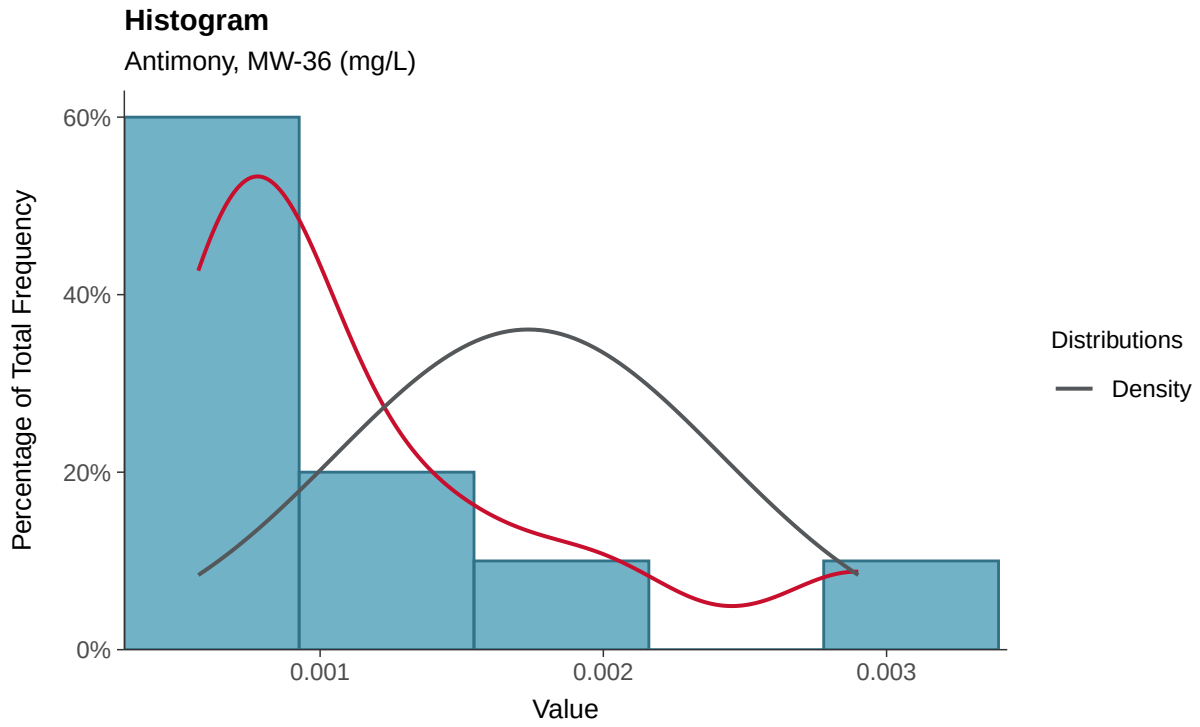
Total Dissolved Solids, MW-36 (mg/L)



Appendix IV: Antimony, MW-36

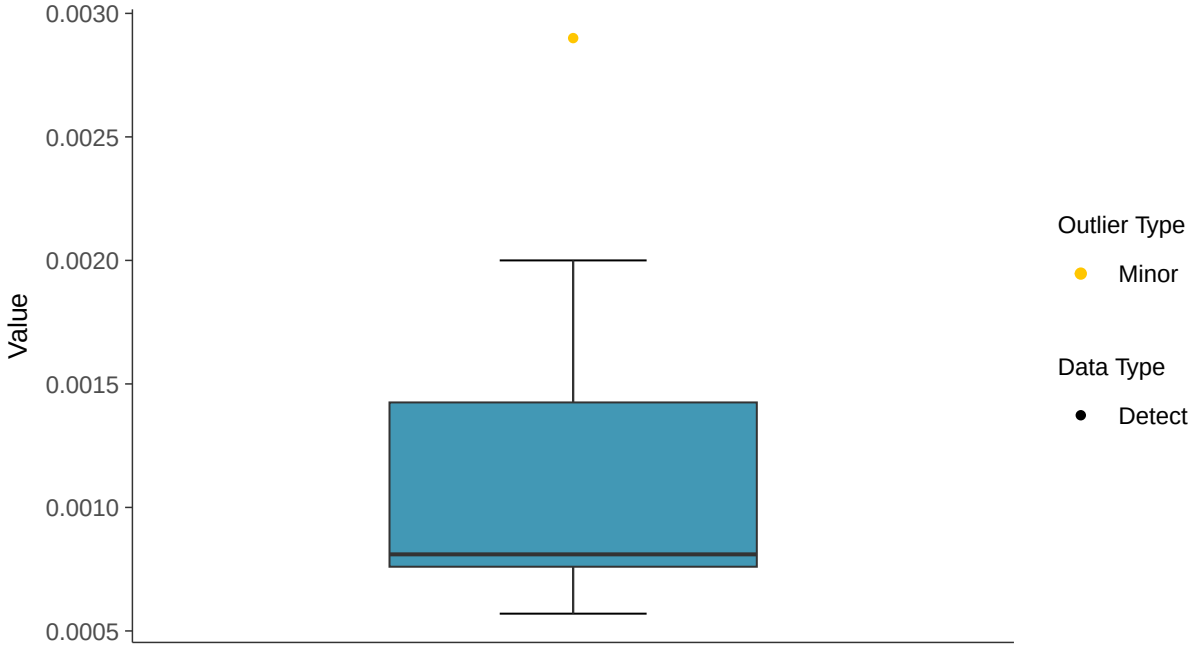
ID: 46_1_4_101





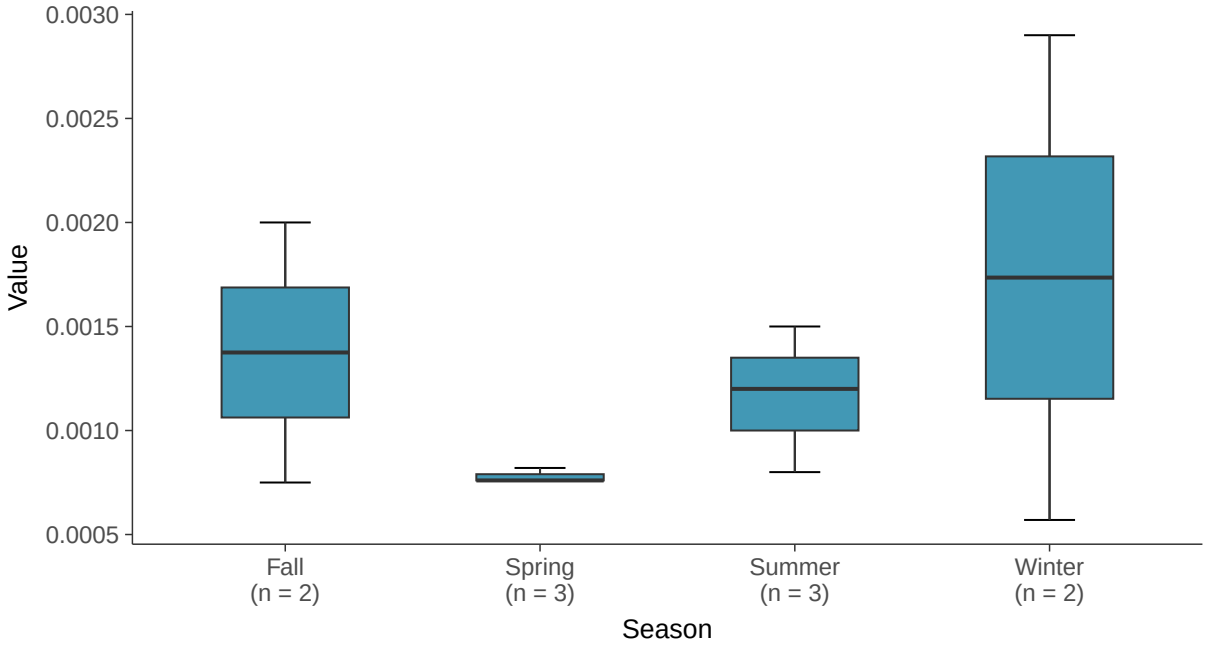
Boxplot

Antimony, MW-36 (mg/L)



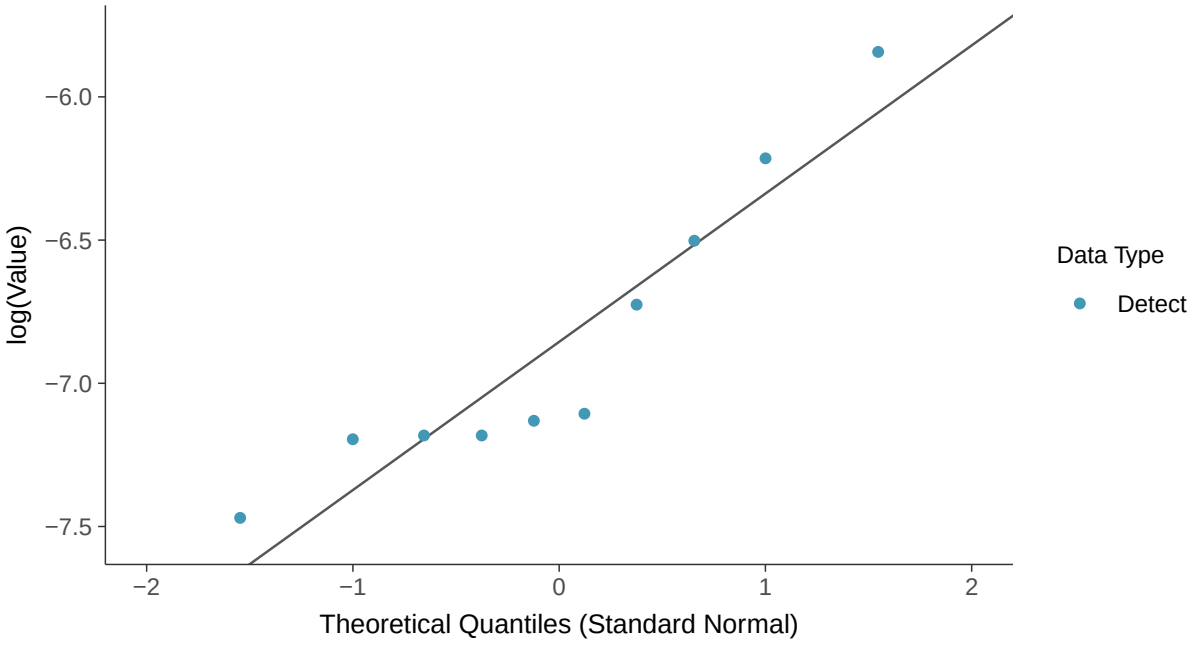
Boxplot by Season

Antimony, MW-36 (mg/L)



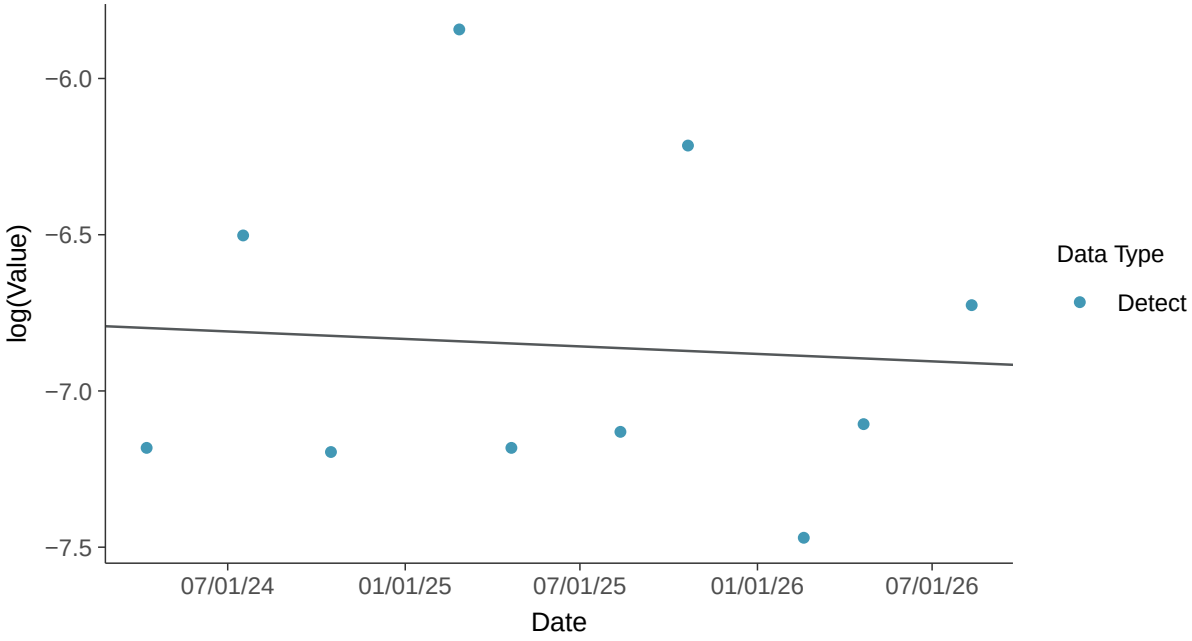
Lognormal Q-Q plot

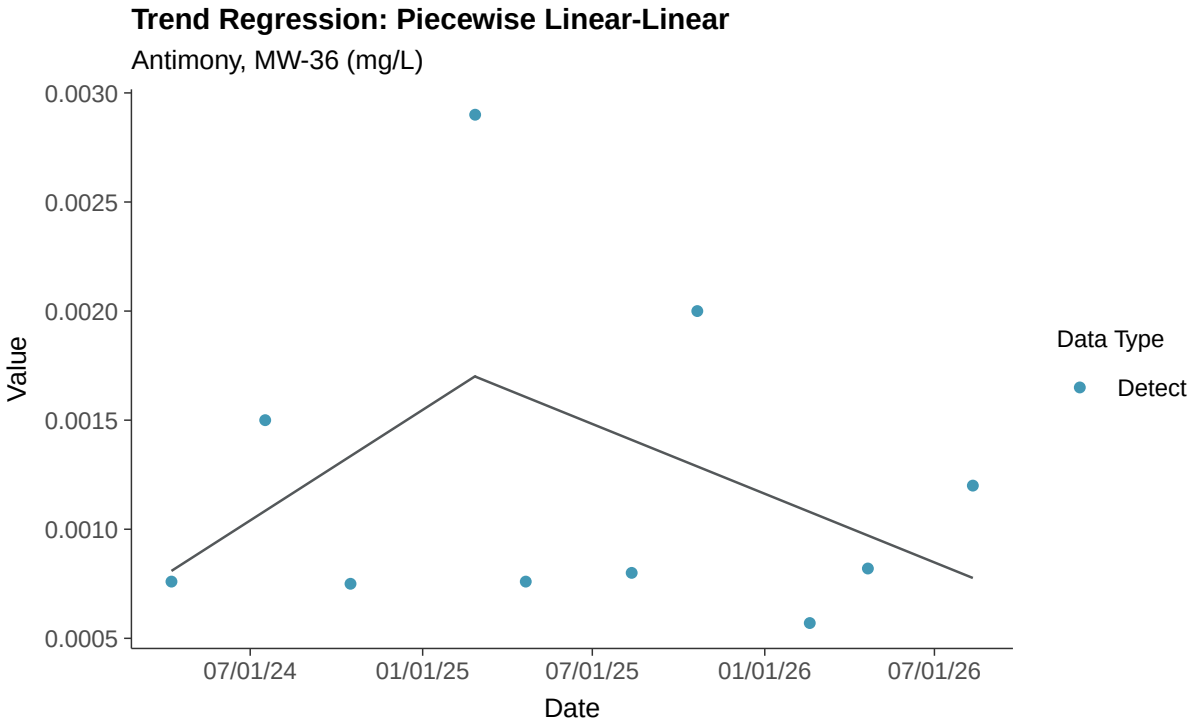
Antimony, MW-36 (mg/L)



Trend Regression: Lognormal MLE

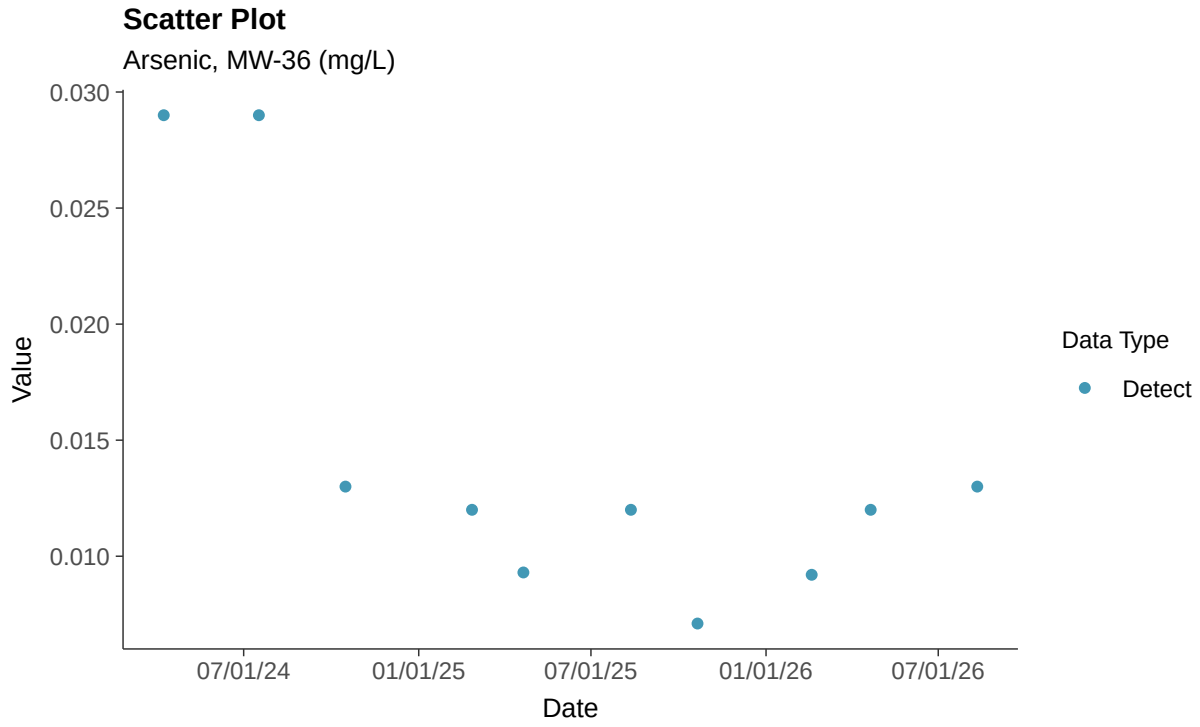
Antimony, MW-36 (mg/L)

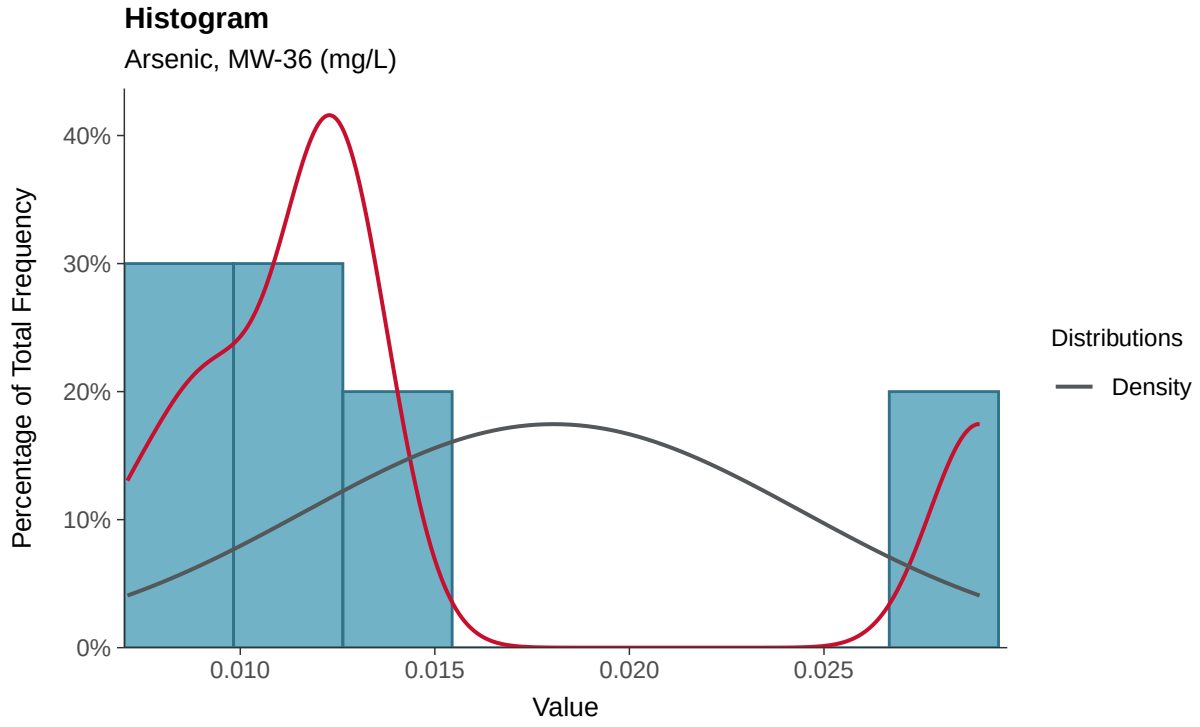



Trend Regression: Piecewise Linear-Linear
Antimony, MW-36 (mg/L)
Value
0.0030
0.0025
0.0020
0.0015
0.0010
0.0005
07/01/24
01/01/25
07/01/25
01/01/26
07/01/26
Date
Data Type
Detect

Appendix IV: Arsenic, MW-36

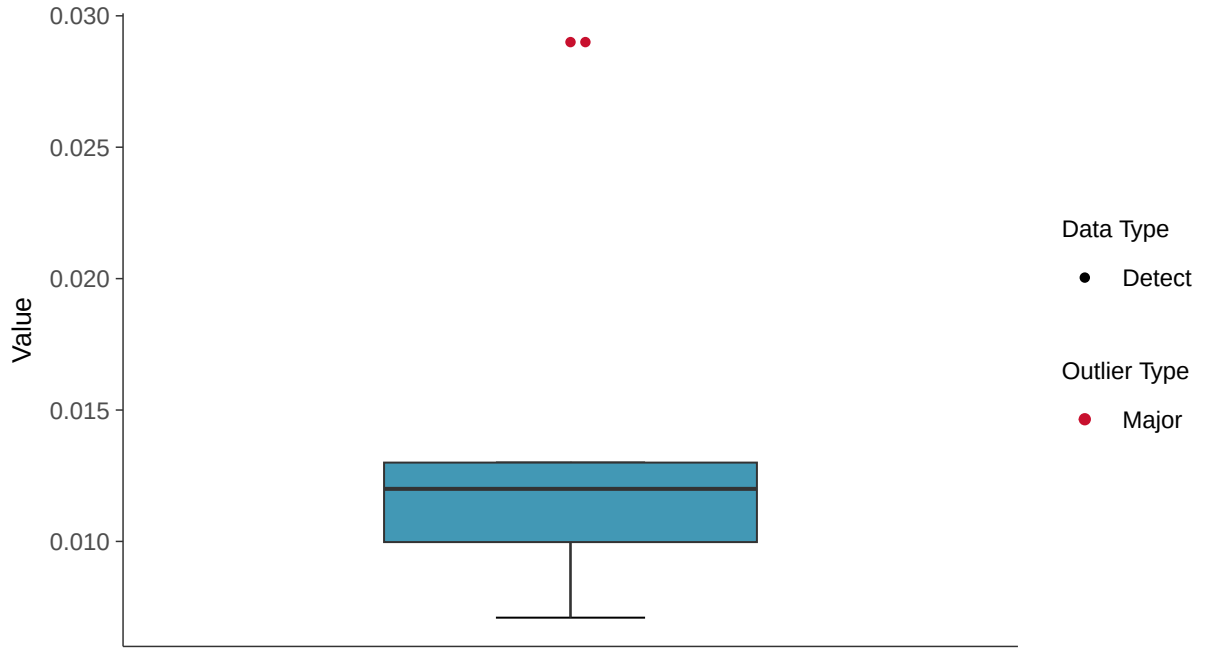
ID: 46_1_4_102





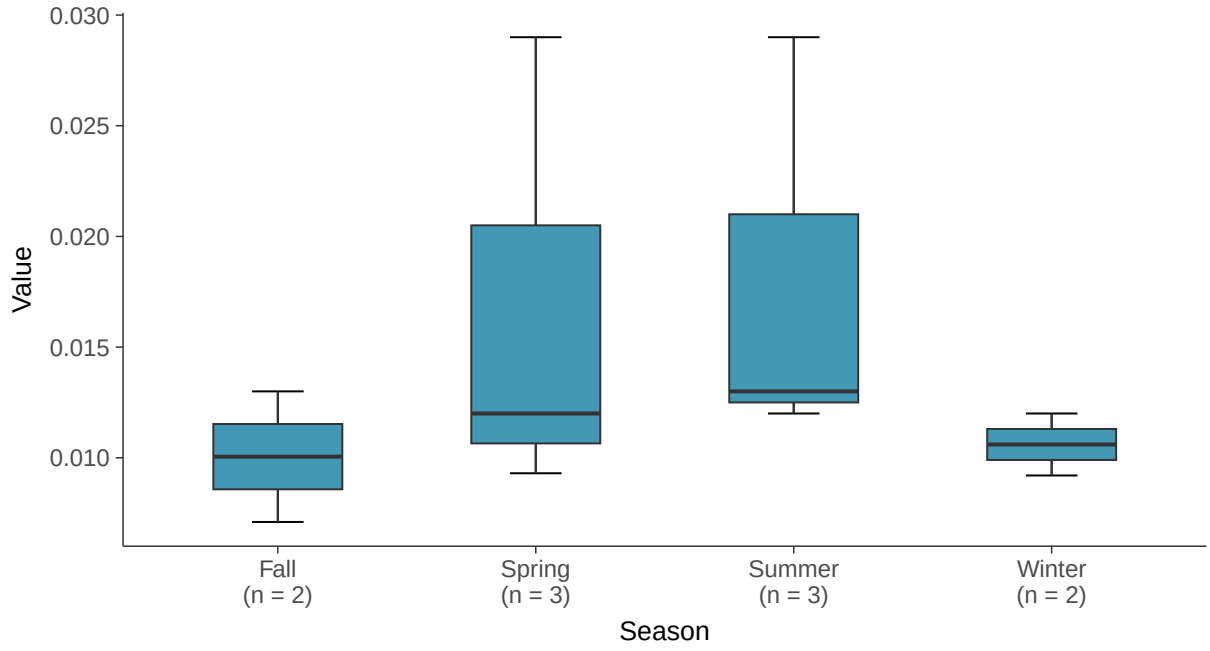
Boxplot

Arsenic, MW-36 (mg/L)



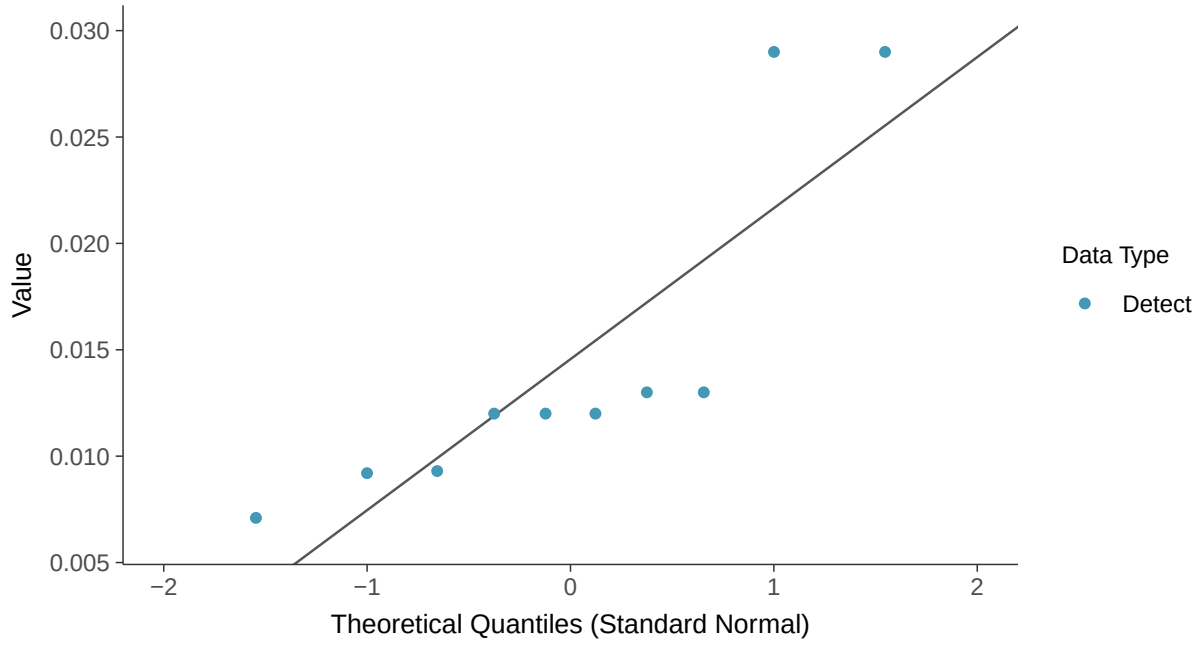
Boxplot by Season

Arsenic, MW-36 (mg/L)



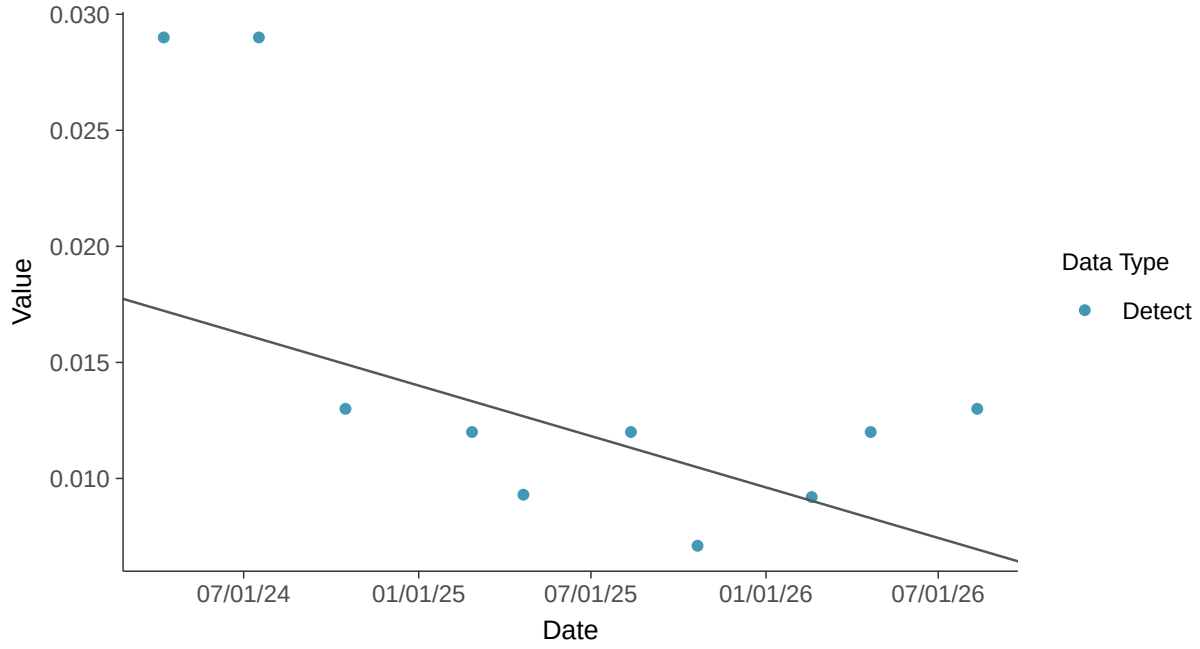
Normal Q-Q plot

Arsenic, MW-36 (mg/L)



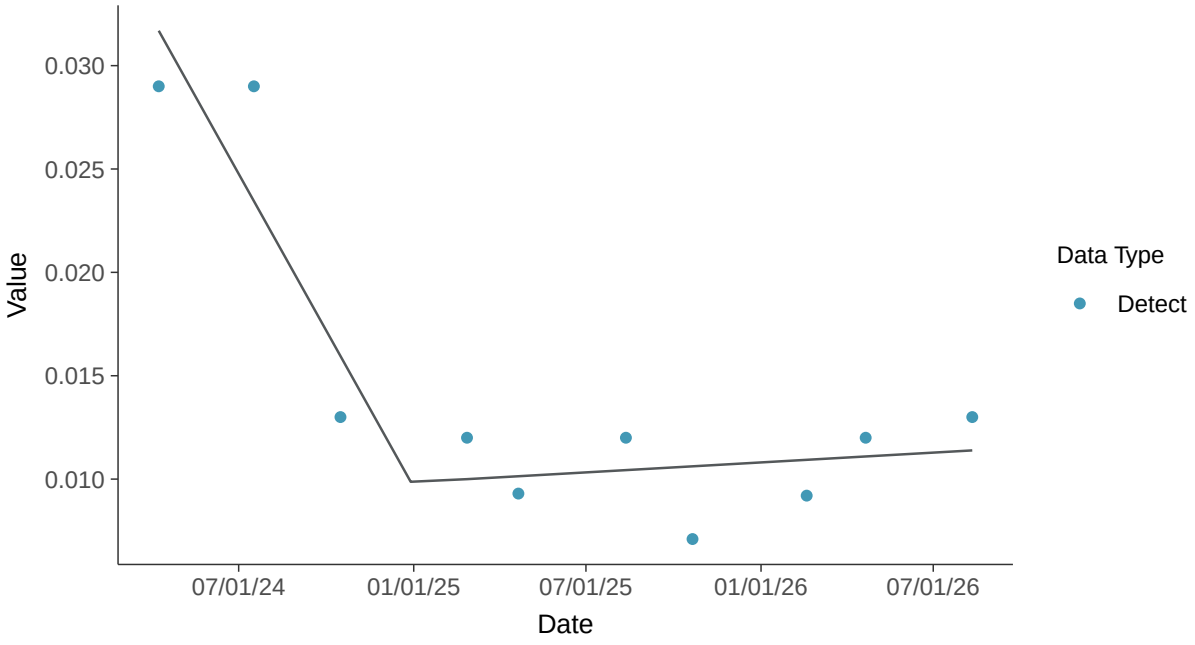
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Arsenic, MW-36 (mg/L)



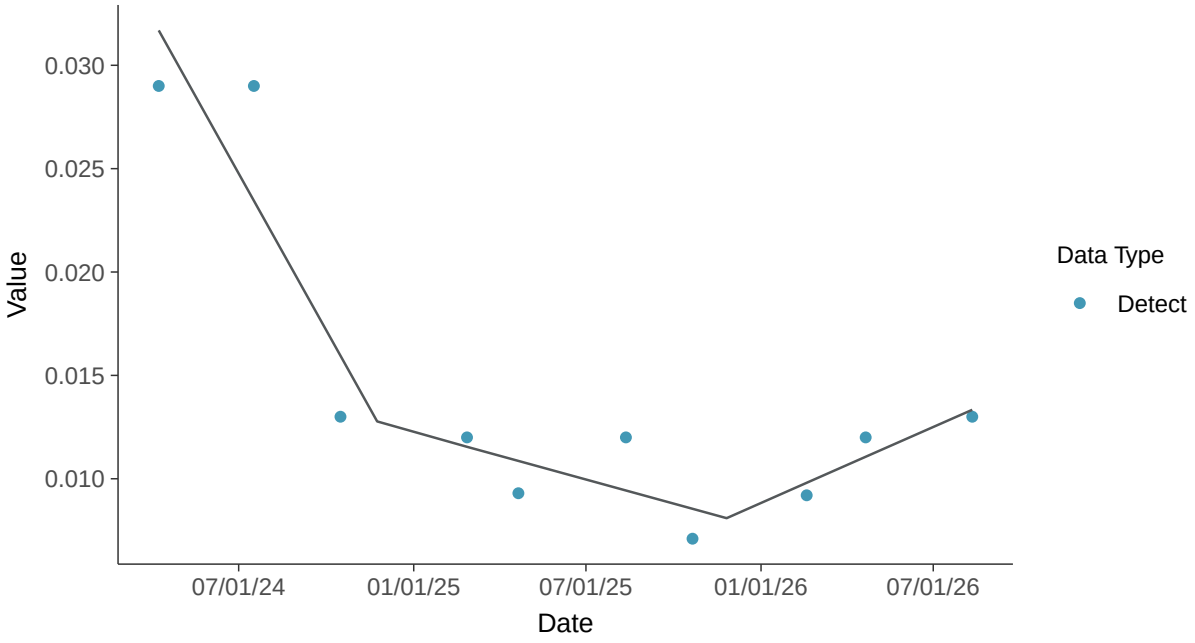
Trend Regression: Piecewise Linear-Linear

Arsenic, MW-36 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Arsenic, MW-36 (mg/L)

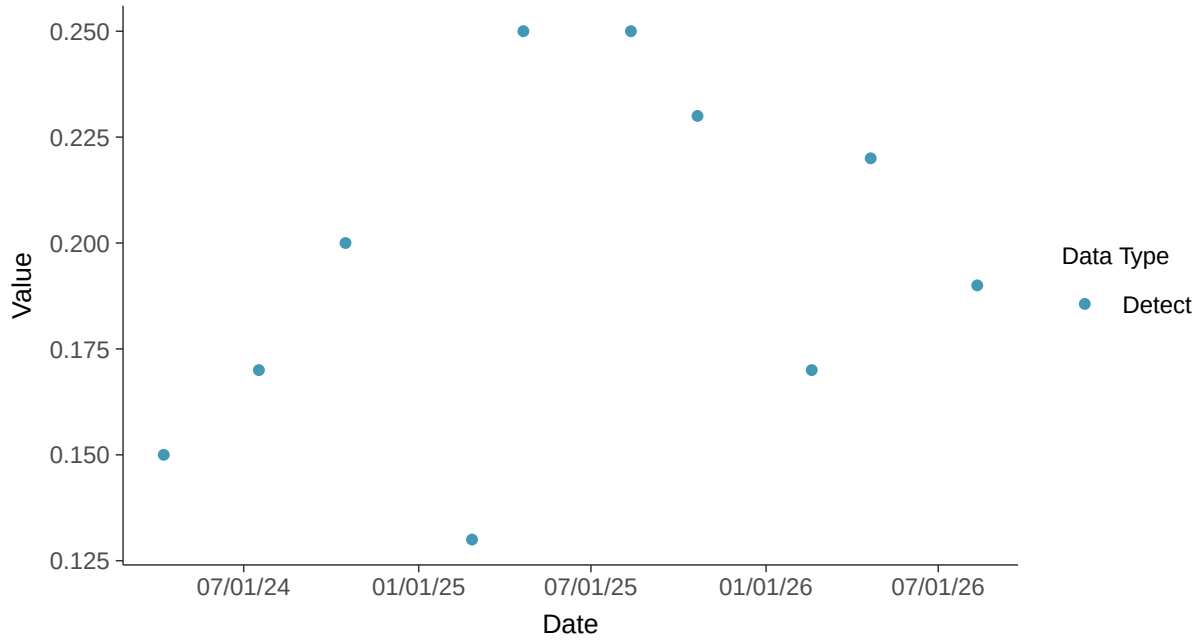


Appendix IV: Barium, MW-36

ID: 46_1_4_103

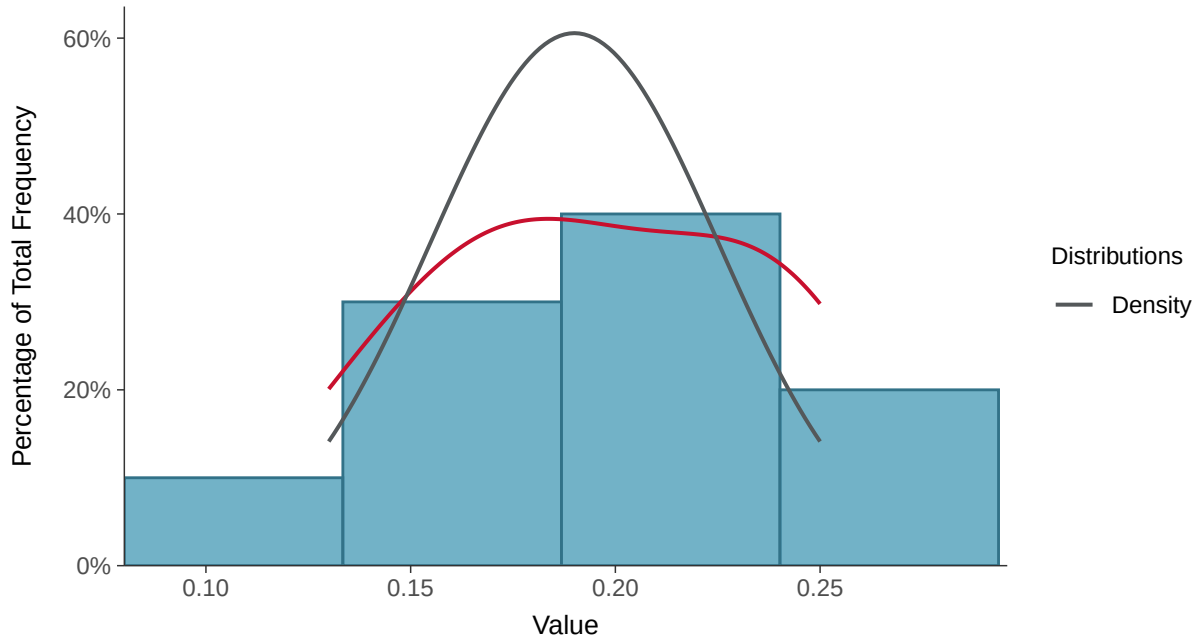
Scatter Plot

Barium, MW-36 (mg/L)



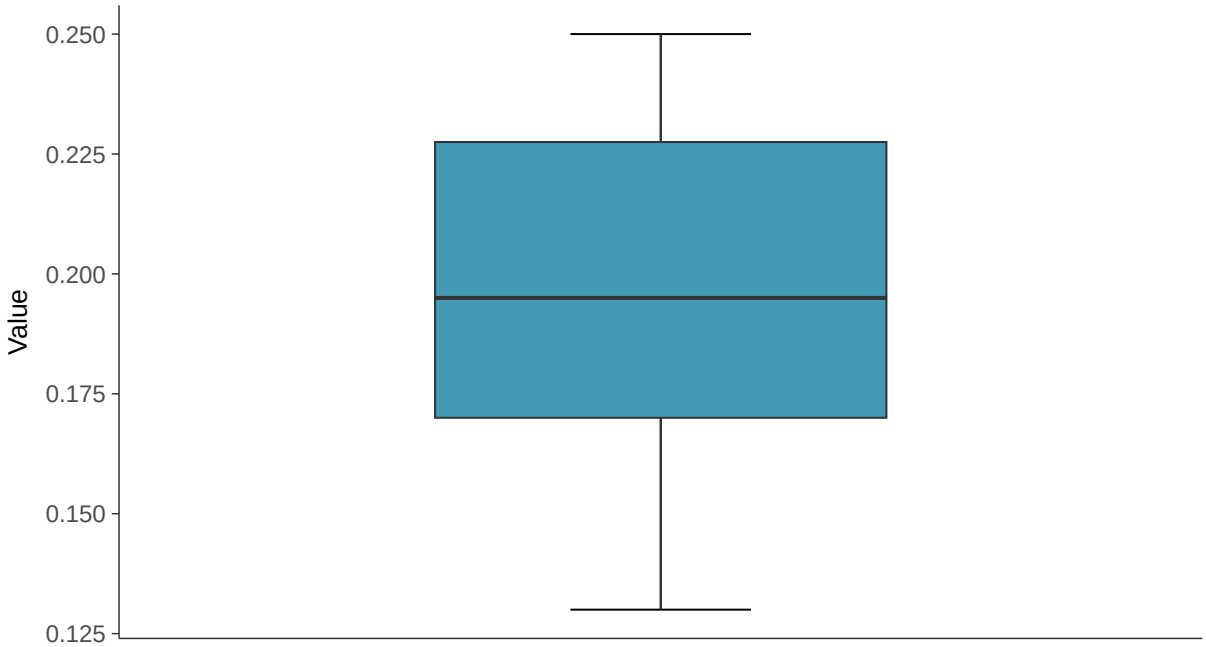
Histogram

Barium, MW-36 (mg/L)



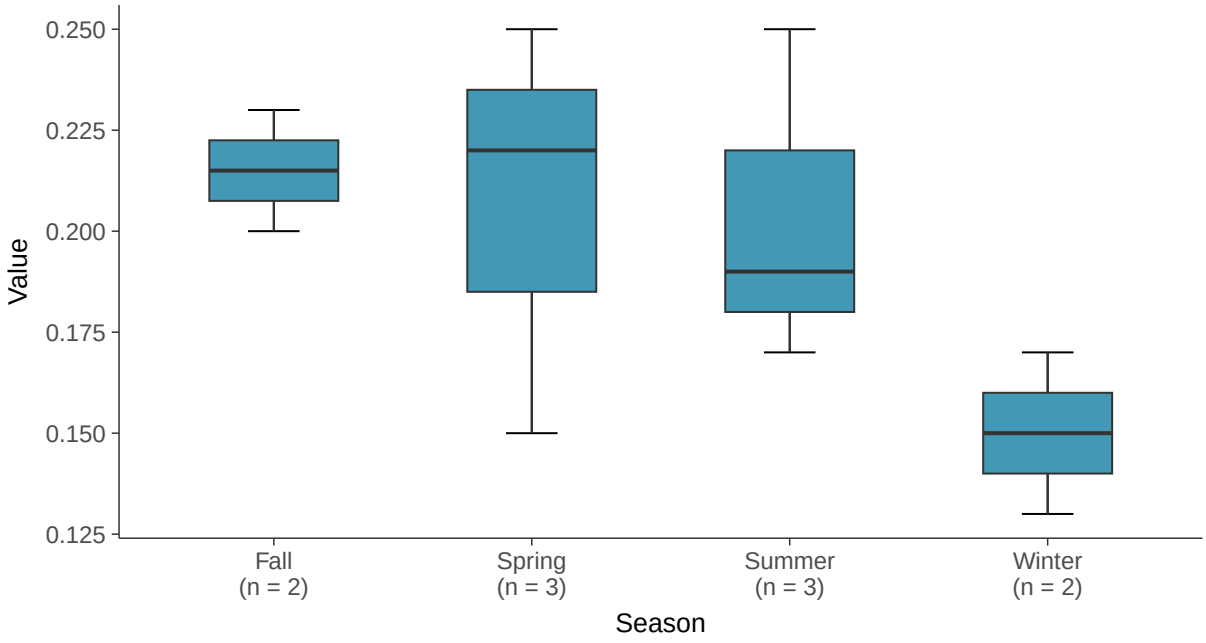
Boxplot

Barium, MW-36 (mg/L)



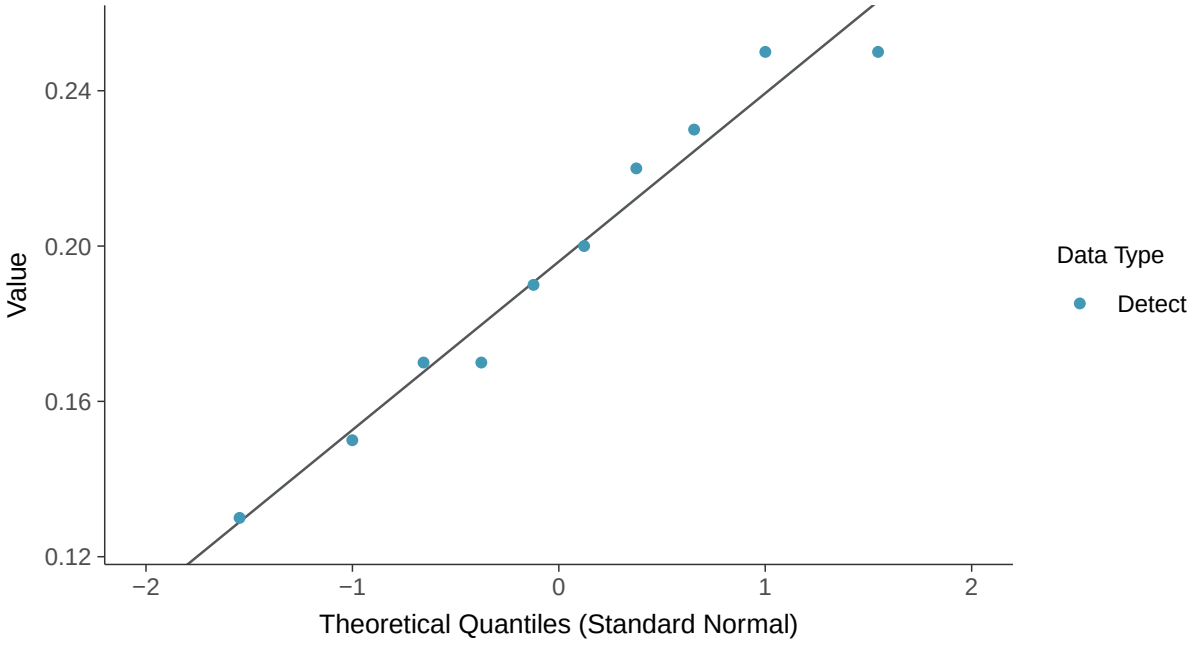
Boxplot by Season

Barium, MW-36 (mg/L)



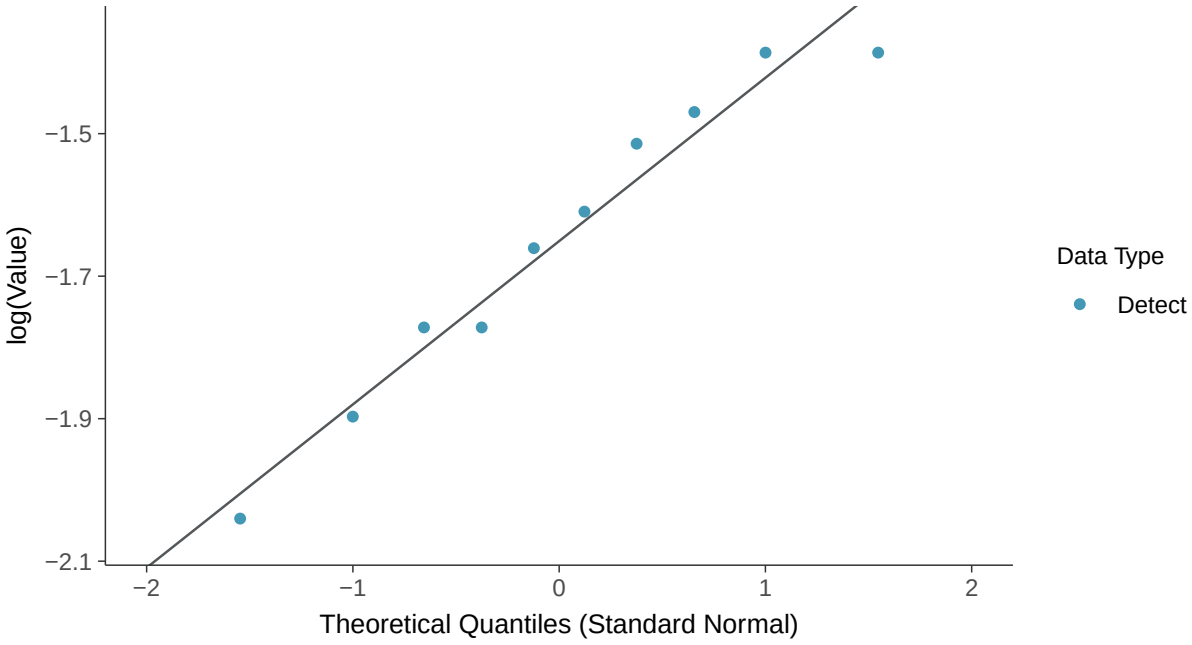
Normal Q-Q plot

Barium, MW-36 (mg/L)



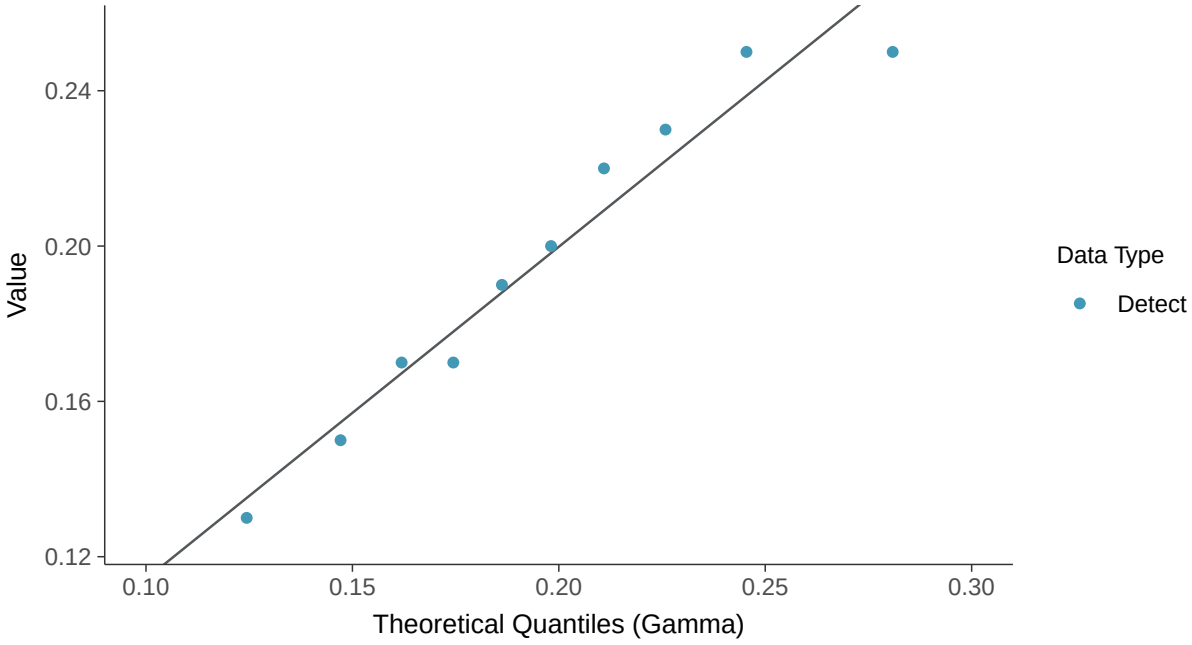
Lognormal Q-Q plot

Barium, MW-36 (mg/L)



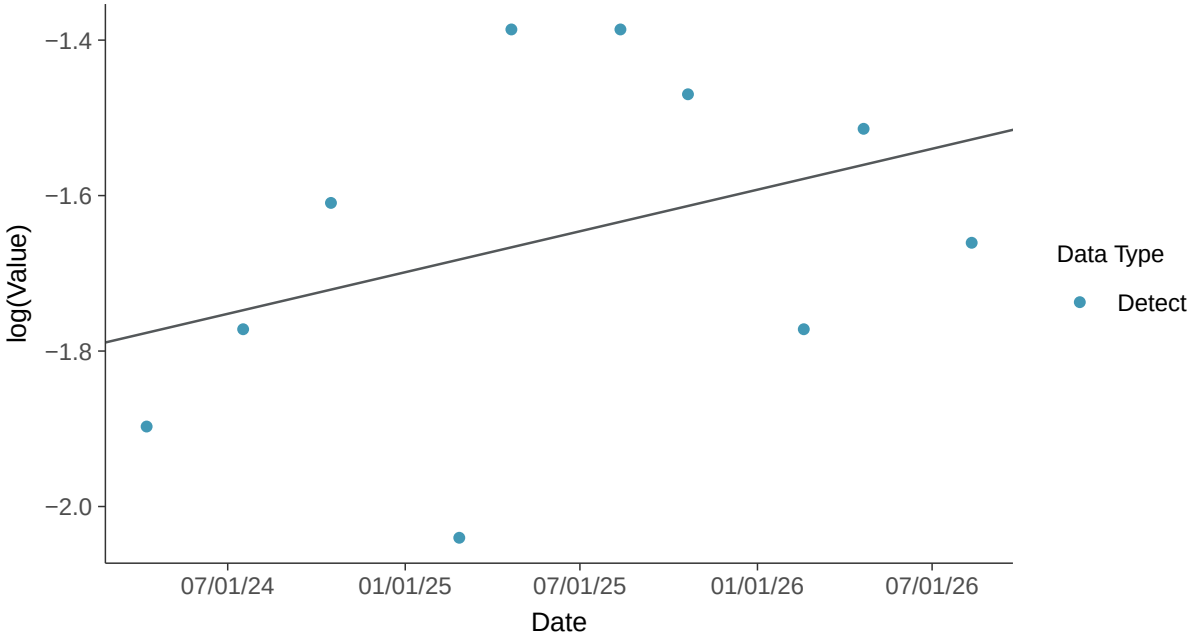
Gamma Q-Q plot

Barium, MW-36 (mg/L)



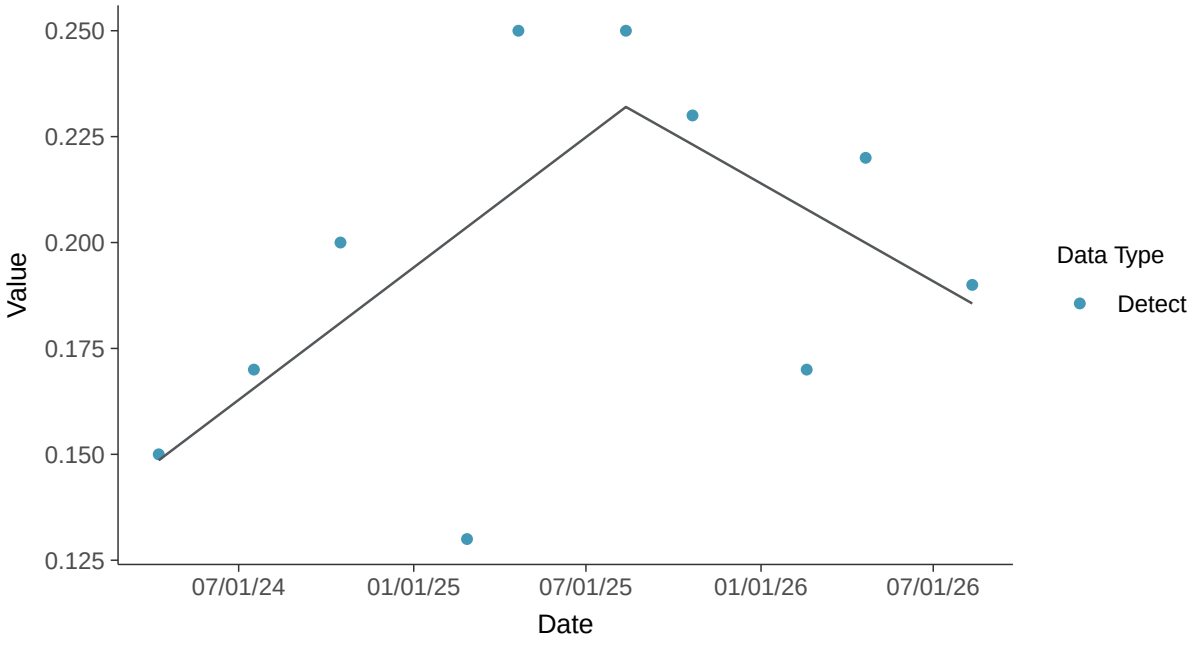
Trend Regression: Lognormal MLE

Barium, MW-36 (mg/L)



Trend Regression: Piecewise Linear-Linear

Barium, MW-36 (mg/L)

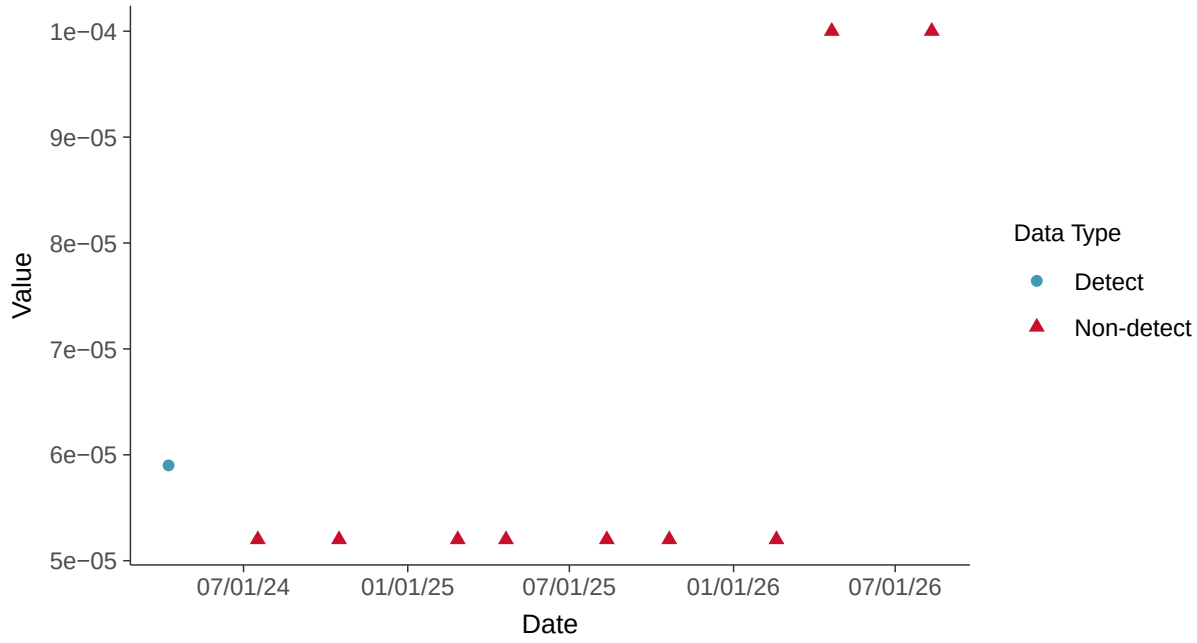


Appendix IV: Beryllium, MW-36

ID: 46_1_4_104

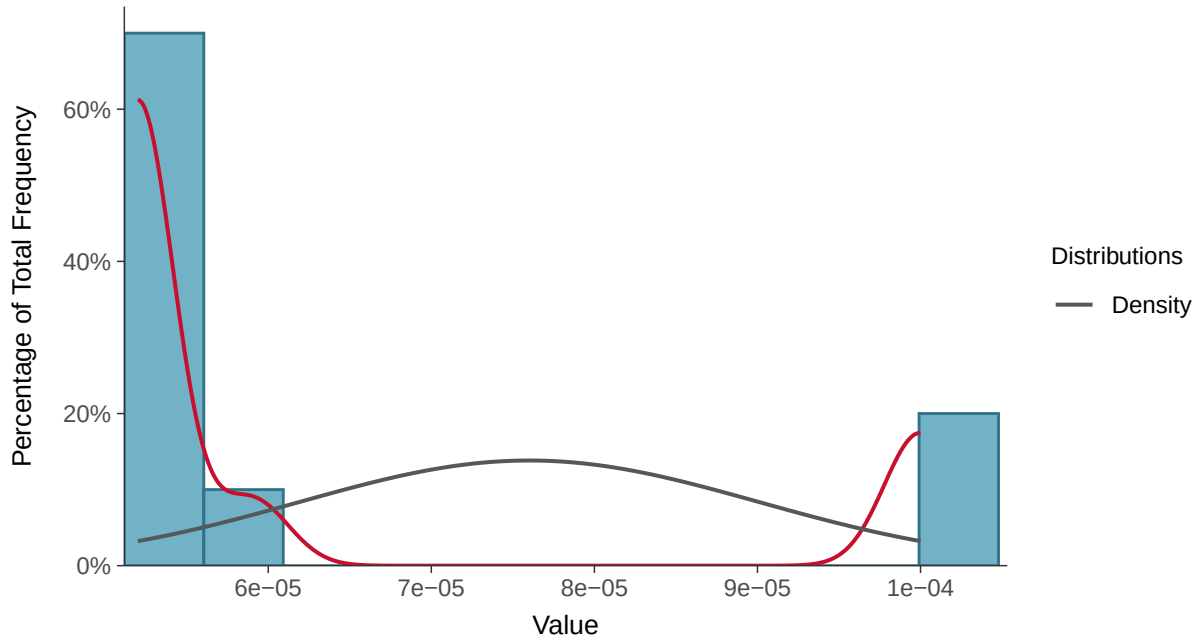
Scatter Plot

Beryllium, MW-36 (mg/L)



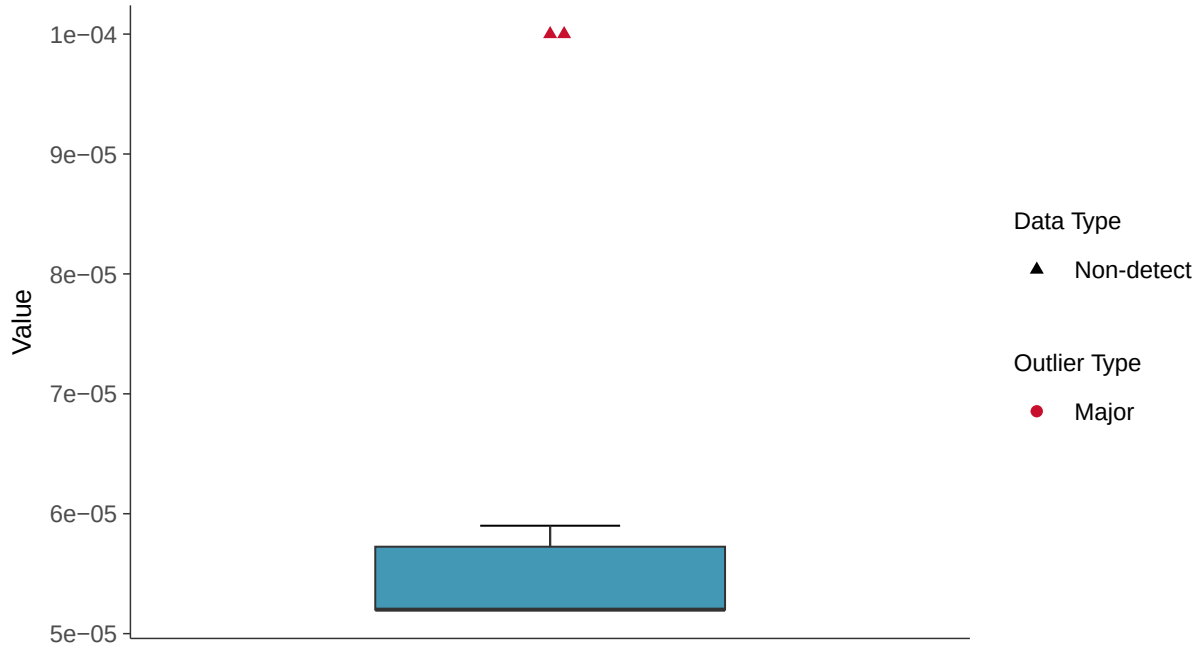
Histogram

Beryllium, MW-36 (mg/L)



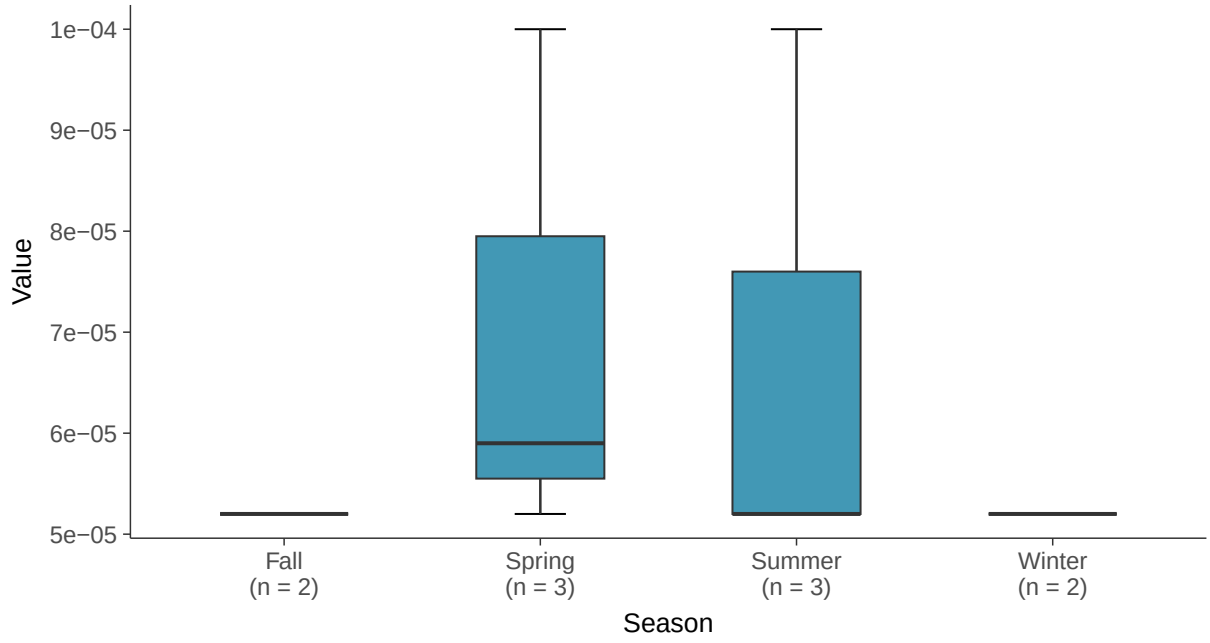
Boxplot

Beryllium, MW-36 (mg/L)



Boxplot by Season

Beryllium, MW-36 (mg/L)

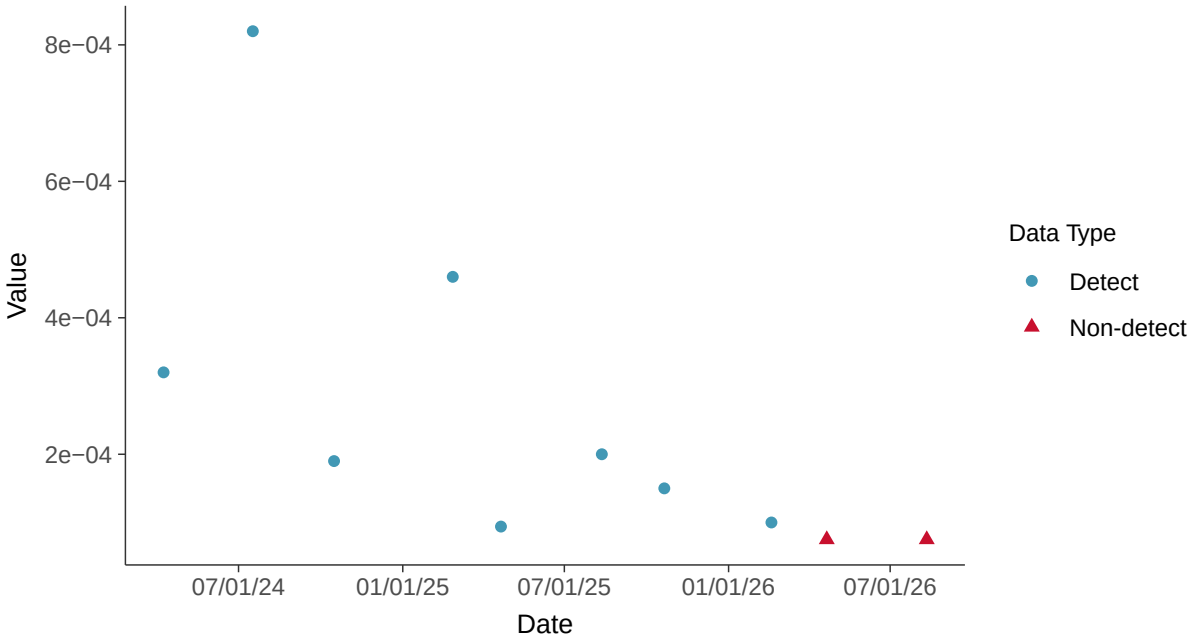


Appendix IV: Cadmium, MW-36

ID: 46_1_4_106

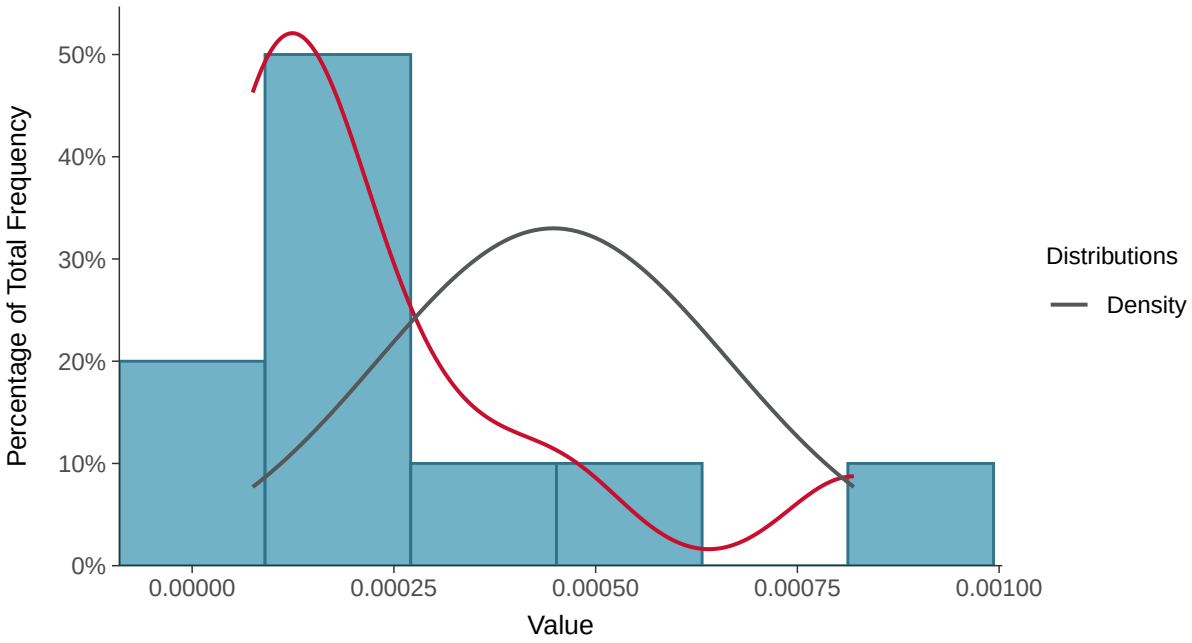
Scatter Plot

Cadmium, MW-36 (mg/L)



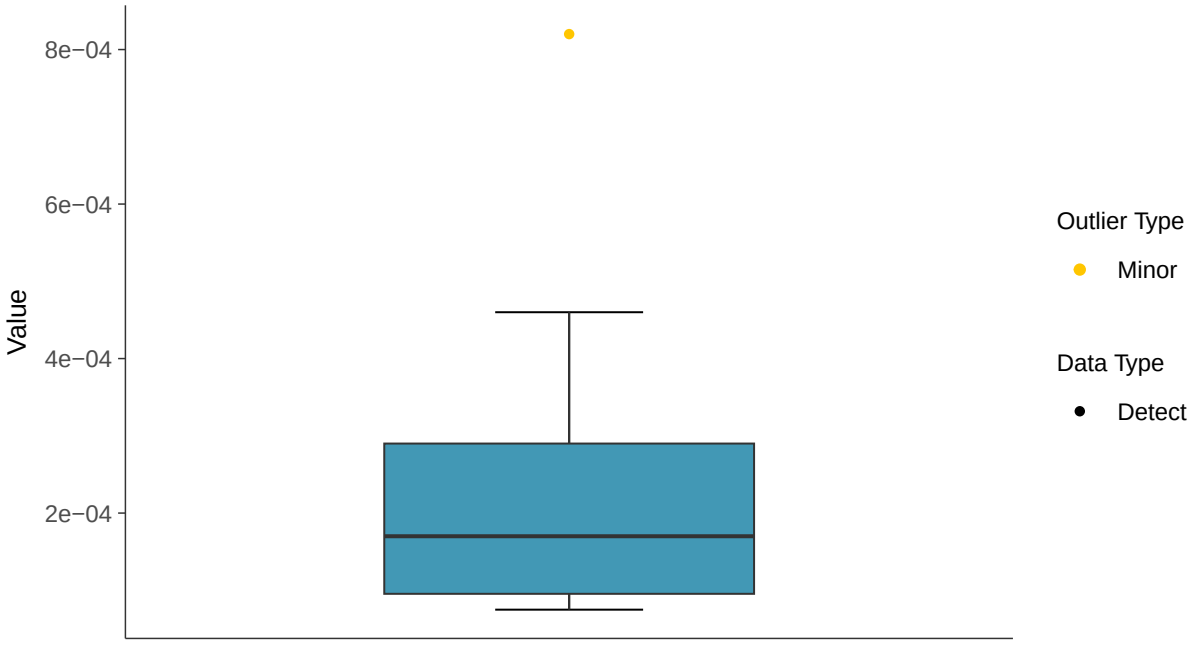
Histogram

Cadmium, MW-36 (mg/L)



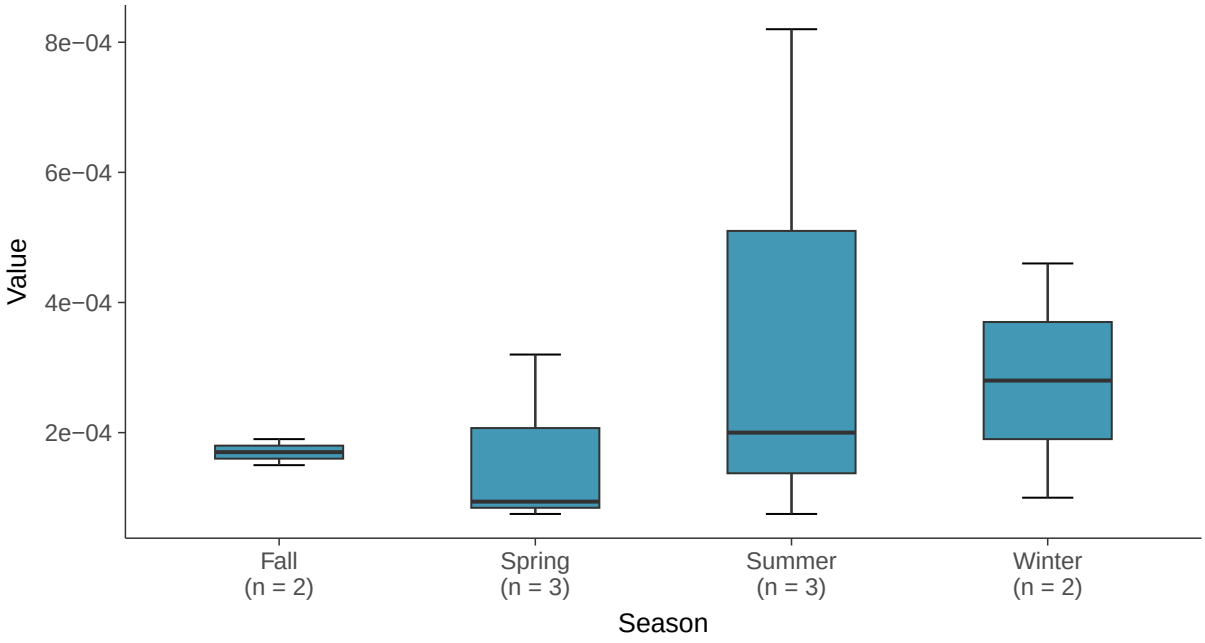
Boxplot

Cadmium, MW-36 (mg/L)



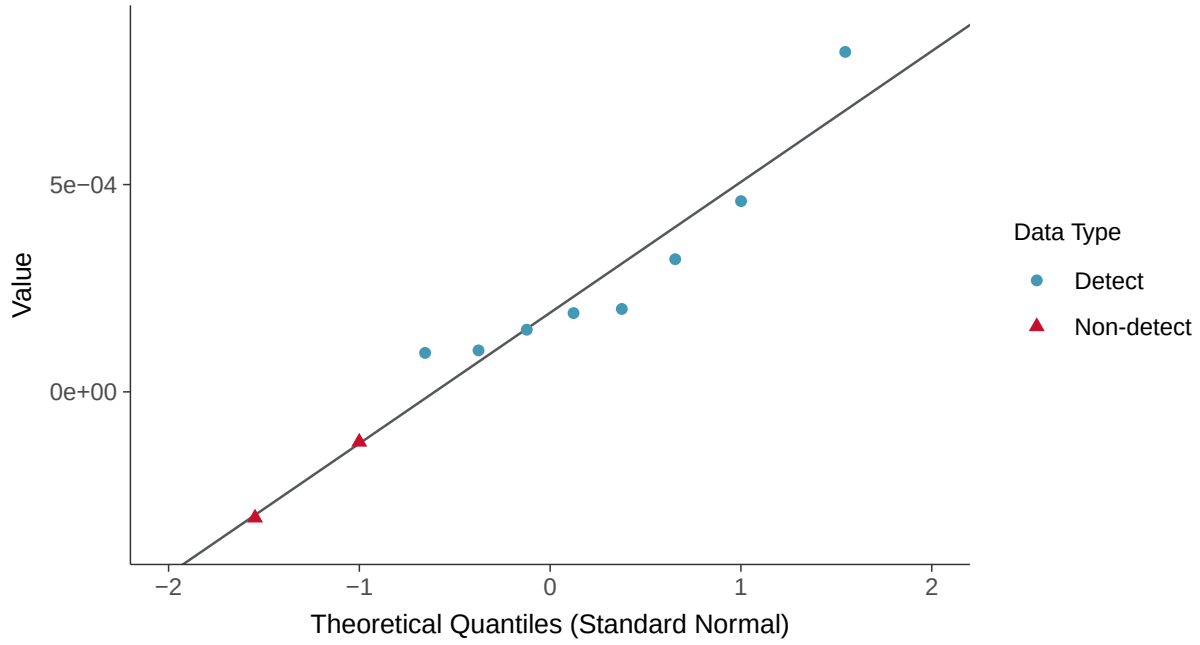
Boxplot by Season

Cadmium, MW-36 (mg/L)



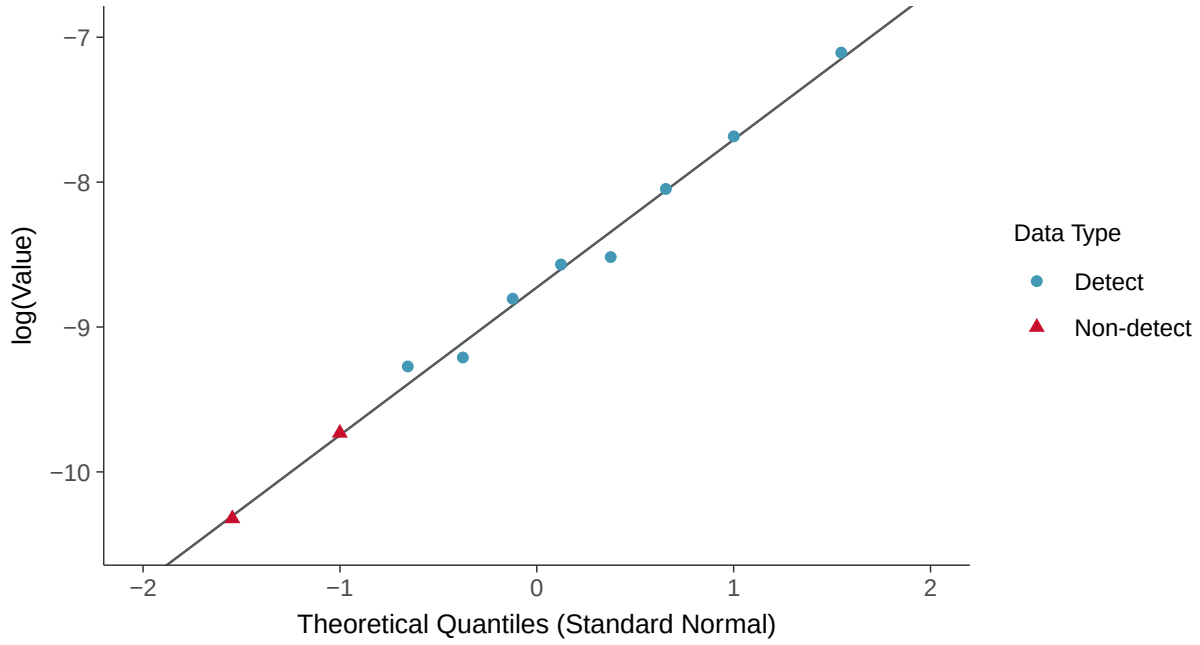
Normal Q-Q plot using ROS Imputed Estimates

Cadmium, MW-36 (mg/L)



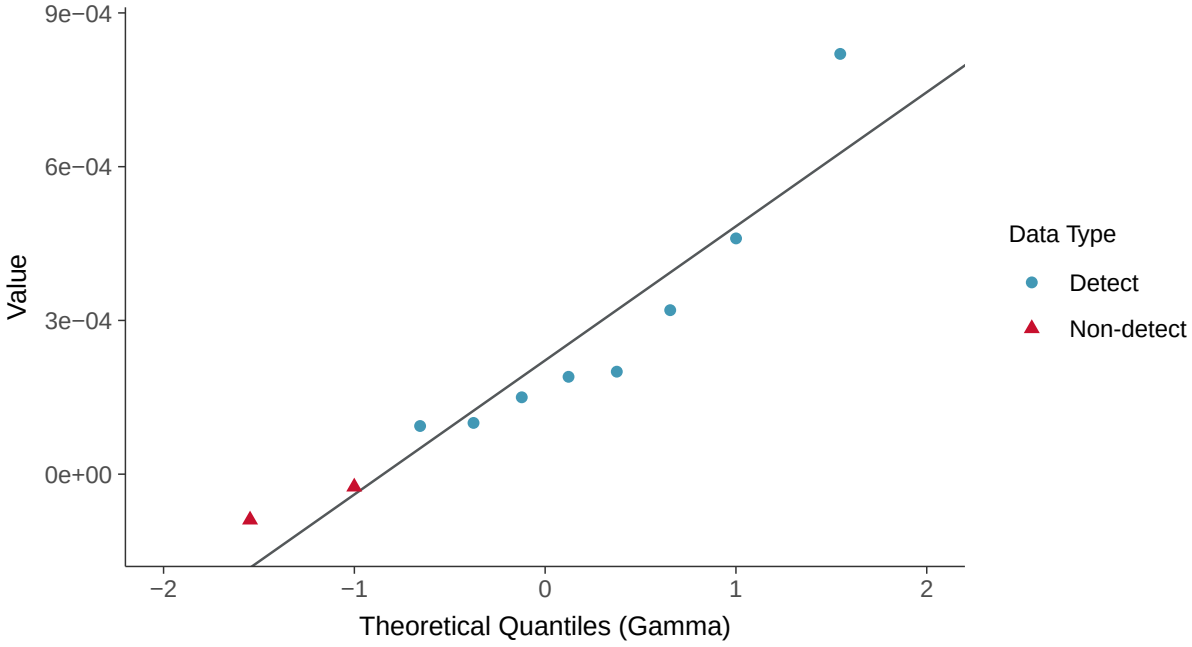
Lognormal Q-Q plot using ROS Imputed Estimates

Cadmium, MW-36 (mg/L)



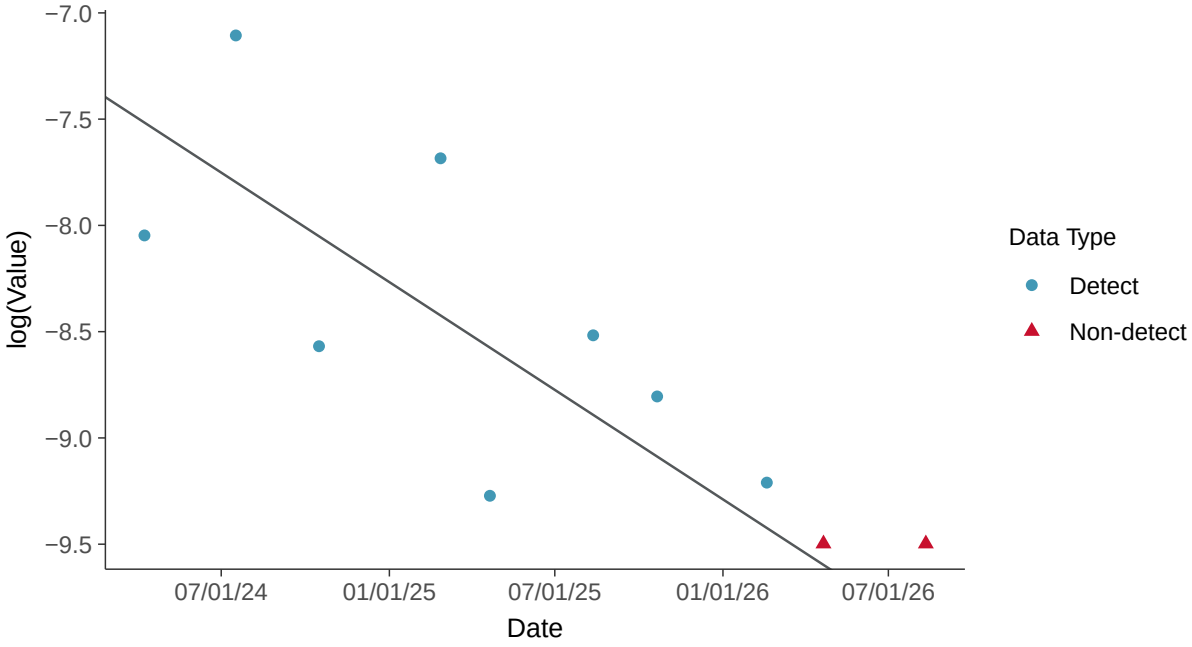
Gamma Q-Q plot using ROS Imputed Estimates

Cadmium, MW-36 (mg/L)



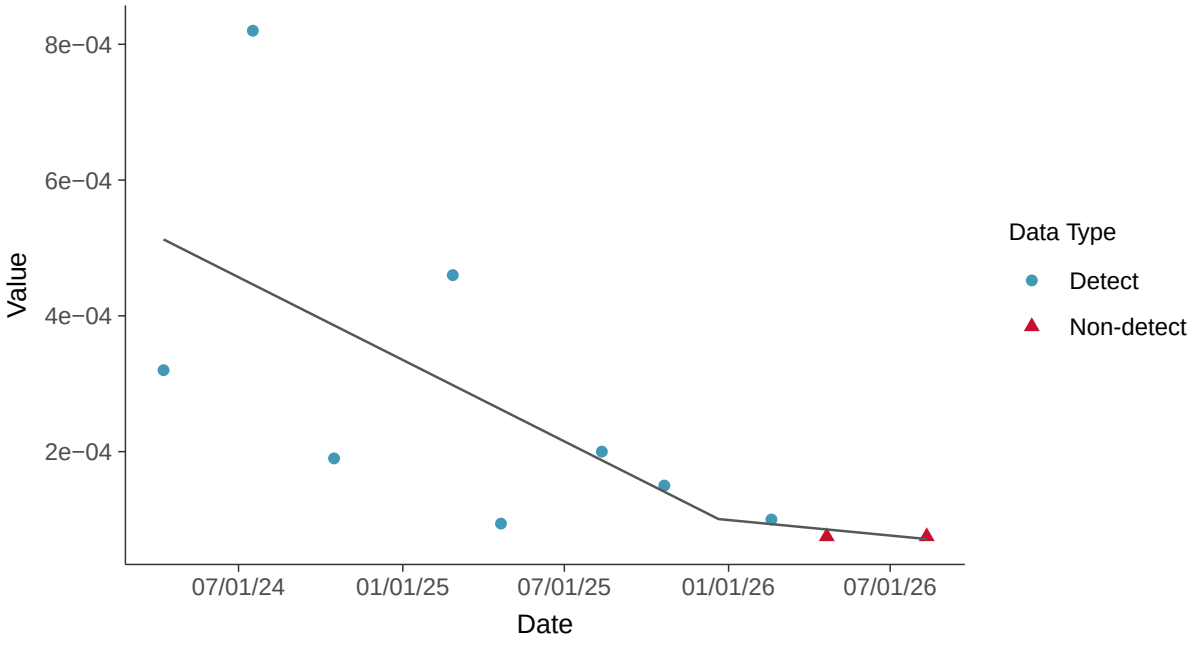
Trend Regression: Lognormal MLE

Cadmium, MW-36 (mg/L)



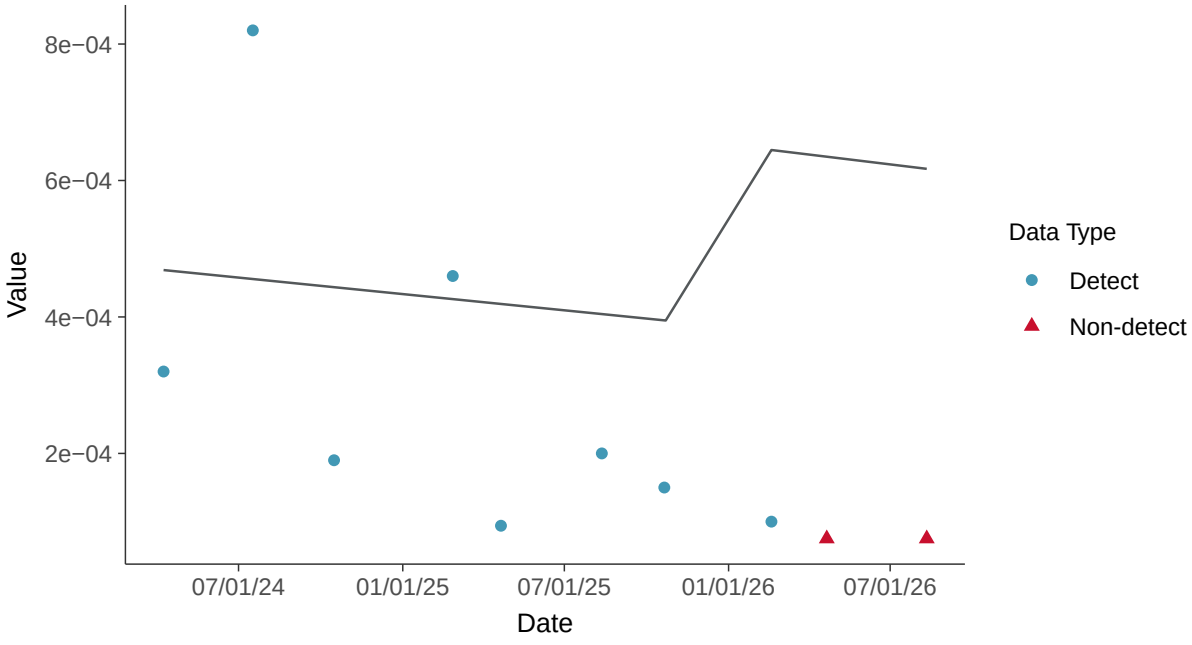
Trend Regression: Piecewise Linear-Linear

Cadmium, MW-36 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Cadmium, MW-36 (mg/L)

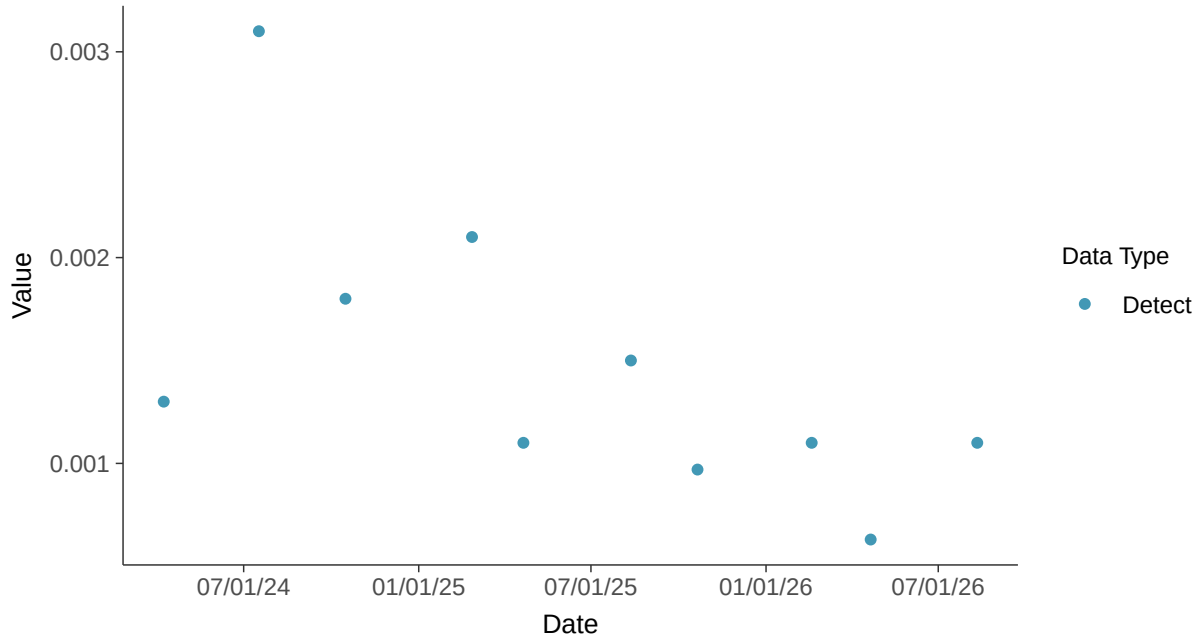


Appendix IV: Chromium, Total, MW-36

ID: 46_1_4_109

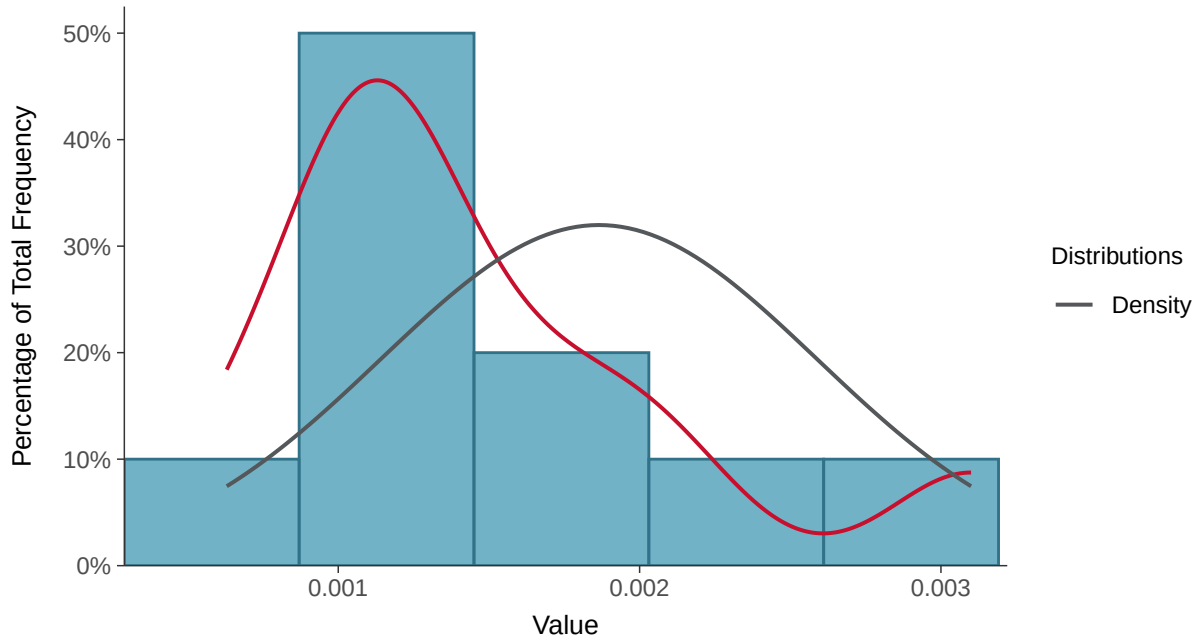
Scatter Plot

Chromium, Total, MW-36 (mg/L)



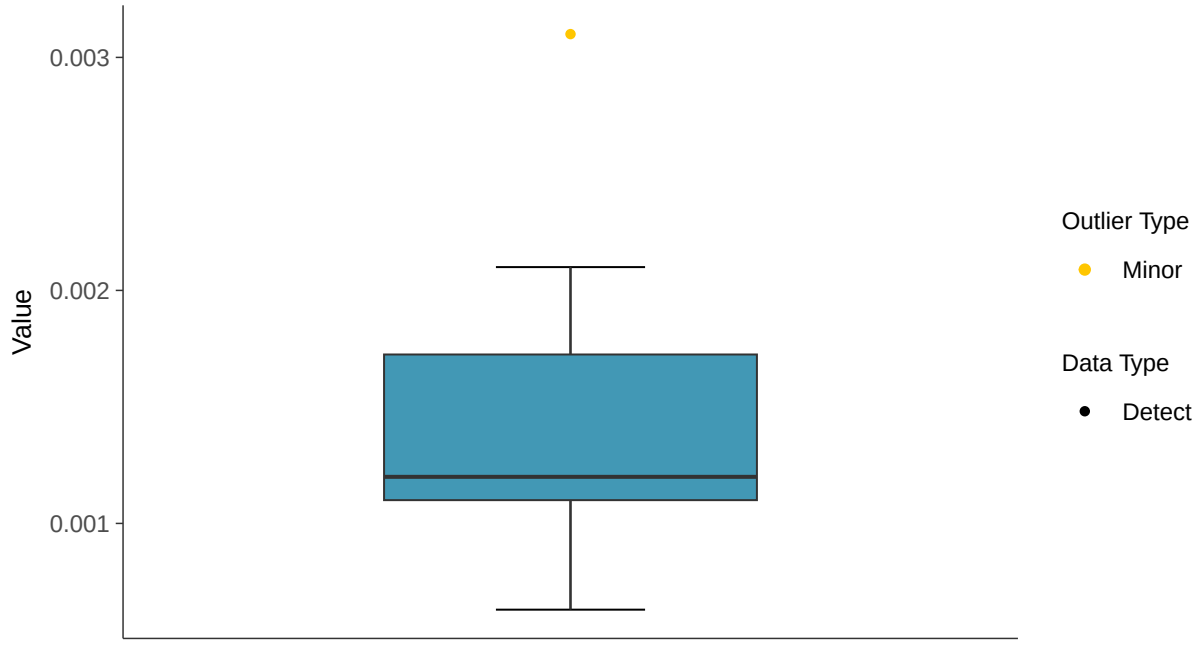
Histogram

Chromium, Total, MW-36 (mg/L)



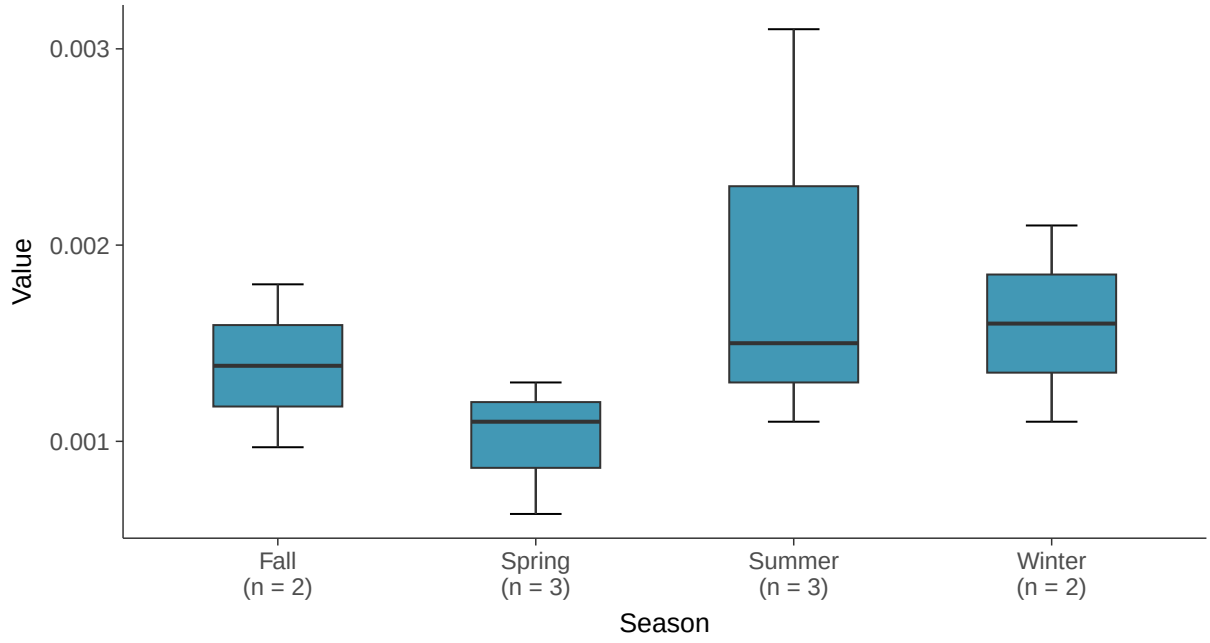
Boxplot

Chromium, Total, MW-36 (mg/L)



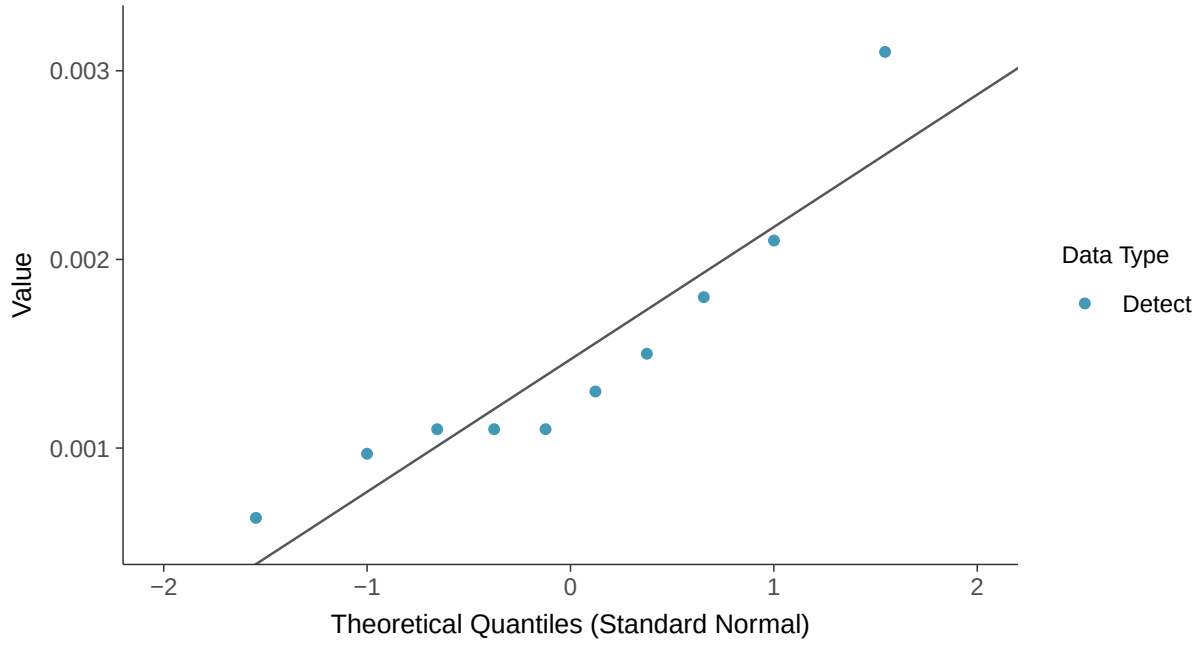
Boxplot by Season

Chromium, Total, MW-36 (mg/L)



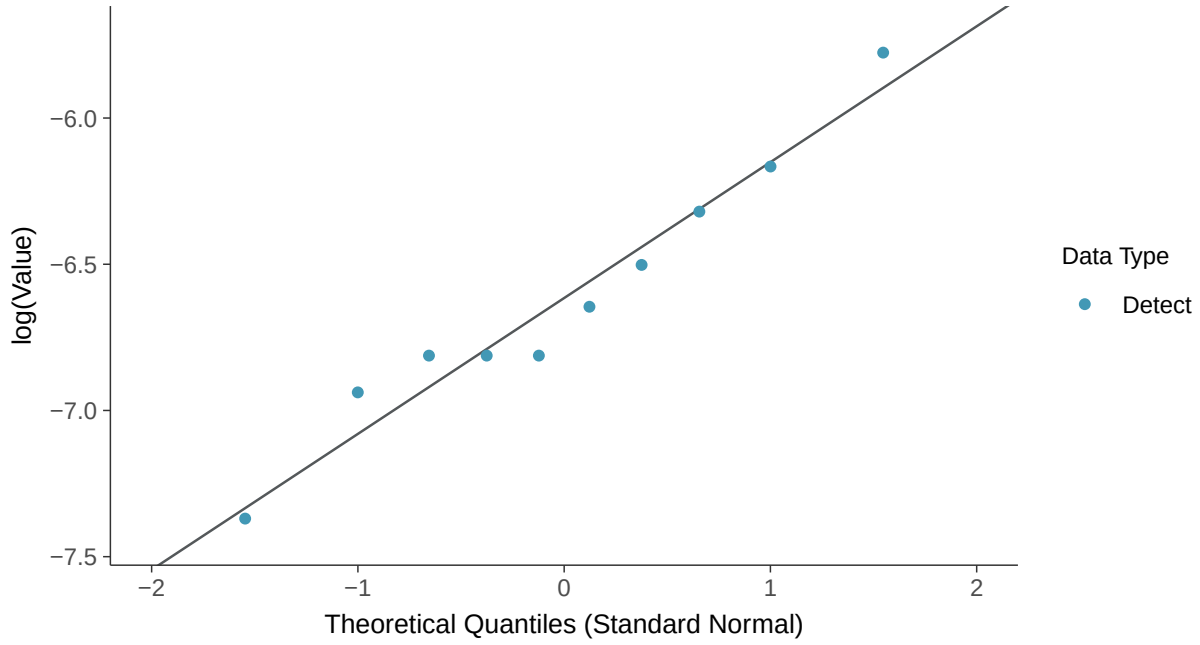
Normal Q-Q plot

Chromium, Total, MW-36 (mg/L)



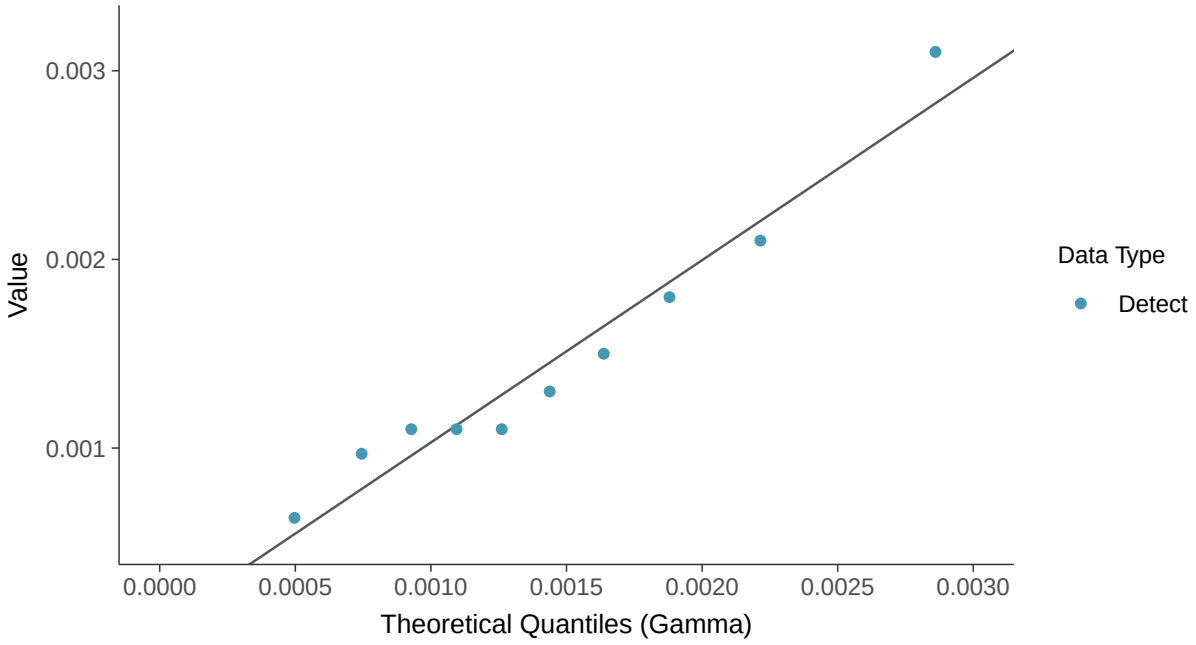
Lognormal Q-Q plot

Chromium, Total, MW-36 (mg/L)



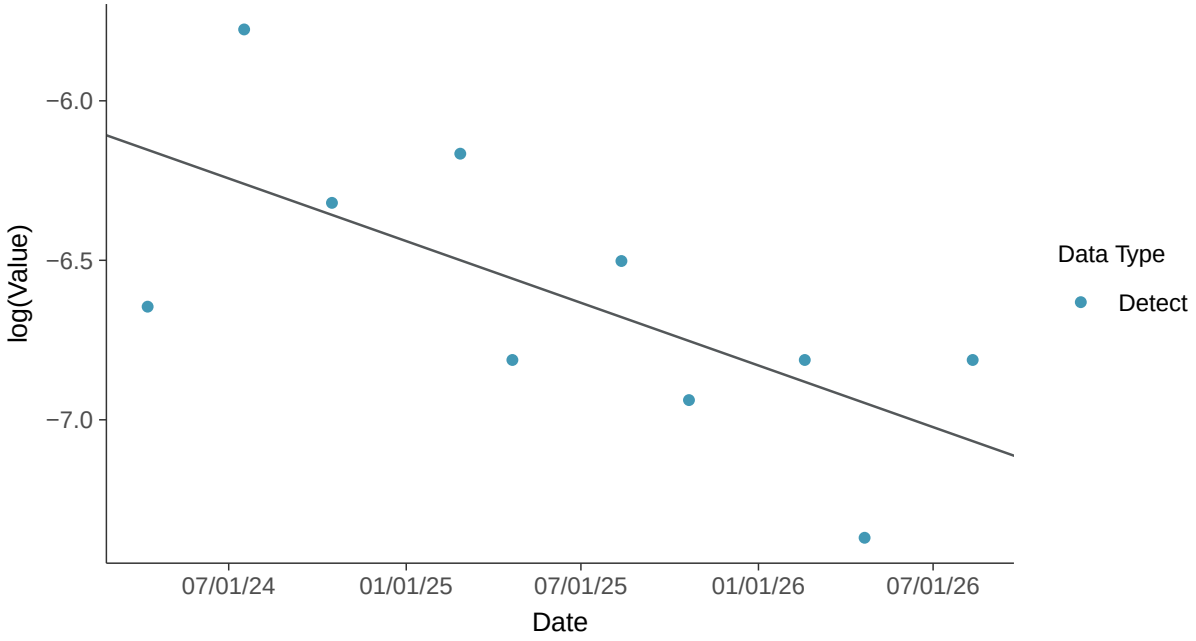
Gamma Q-Q plot

Chromium, Total, MW-36 (mg/L)



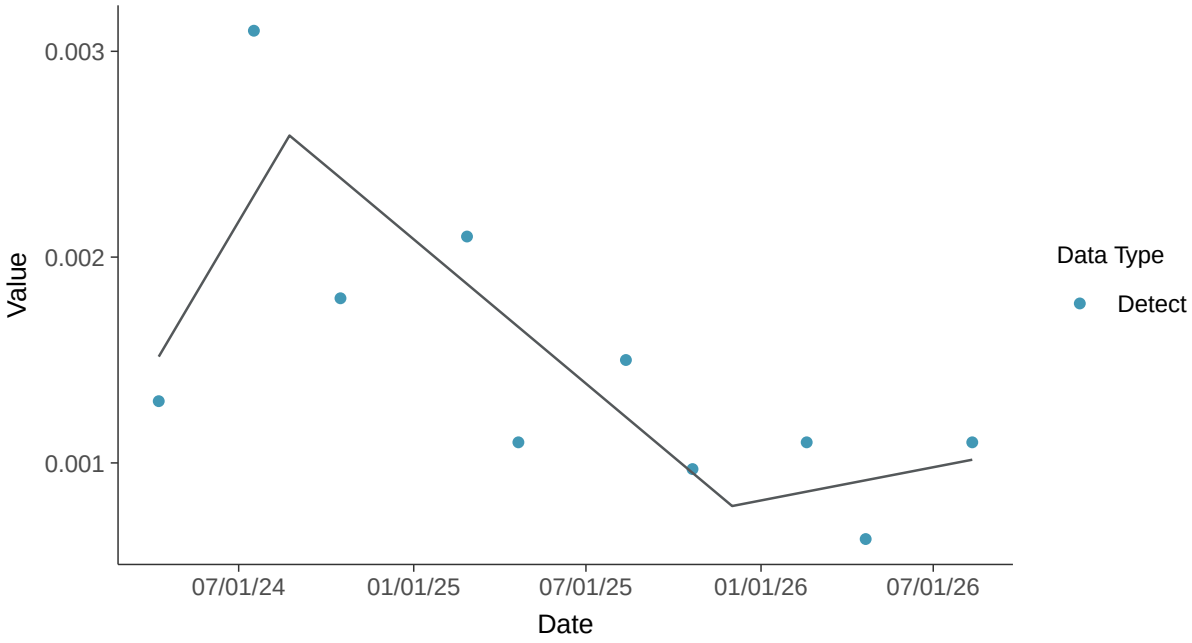
Trend Regression: Lognormal MLE

Chromium, Total, MW-36 (mg/L)



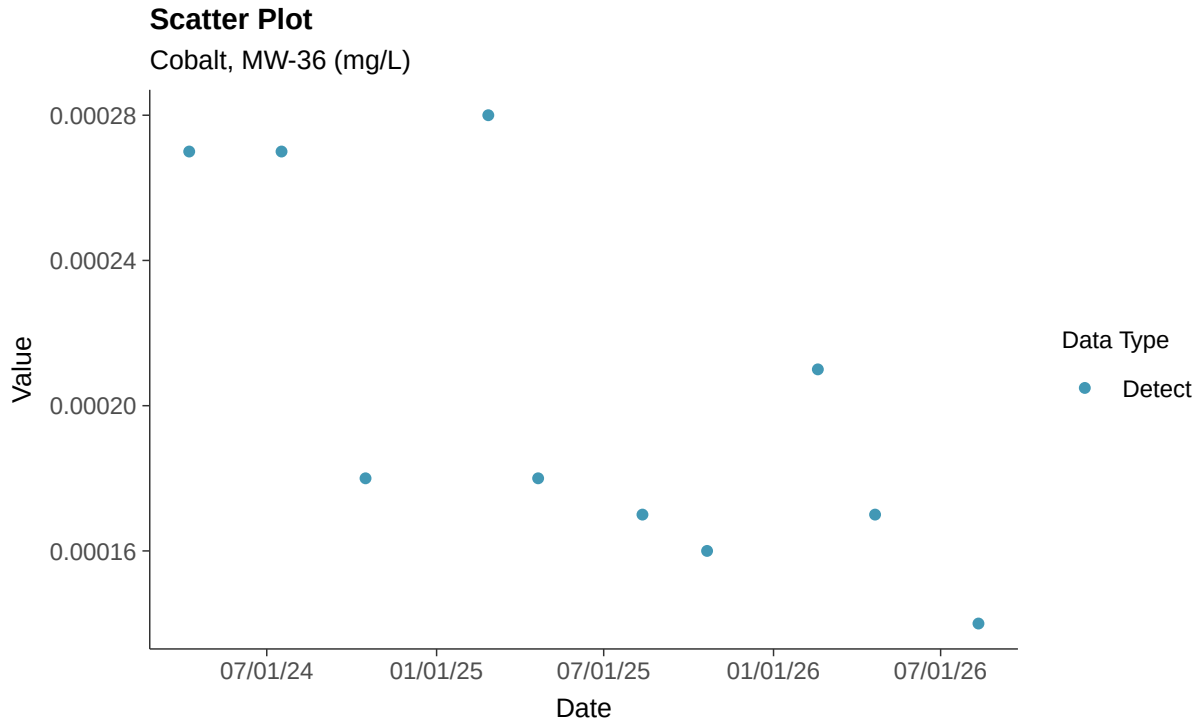
Trend Regression: Piecewise Linear-Linear-Linear

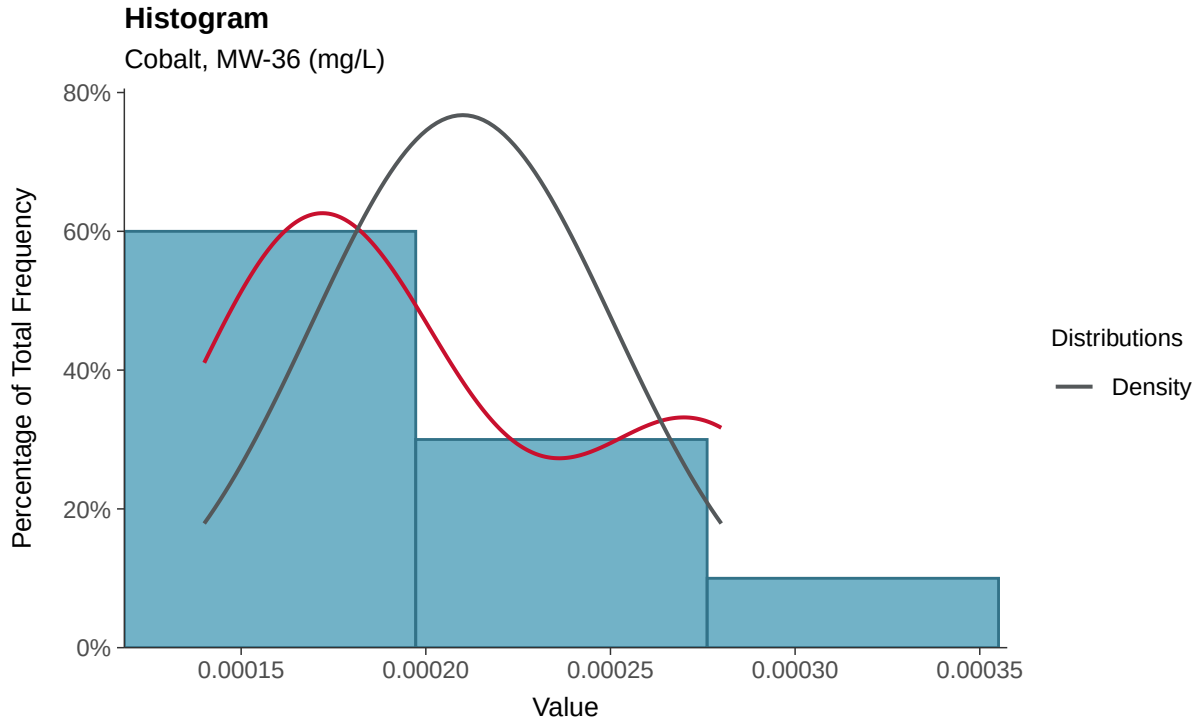
Chromium, Total, MW-36 (mg/L)



Appendix IV: Cobalt, MW-36

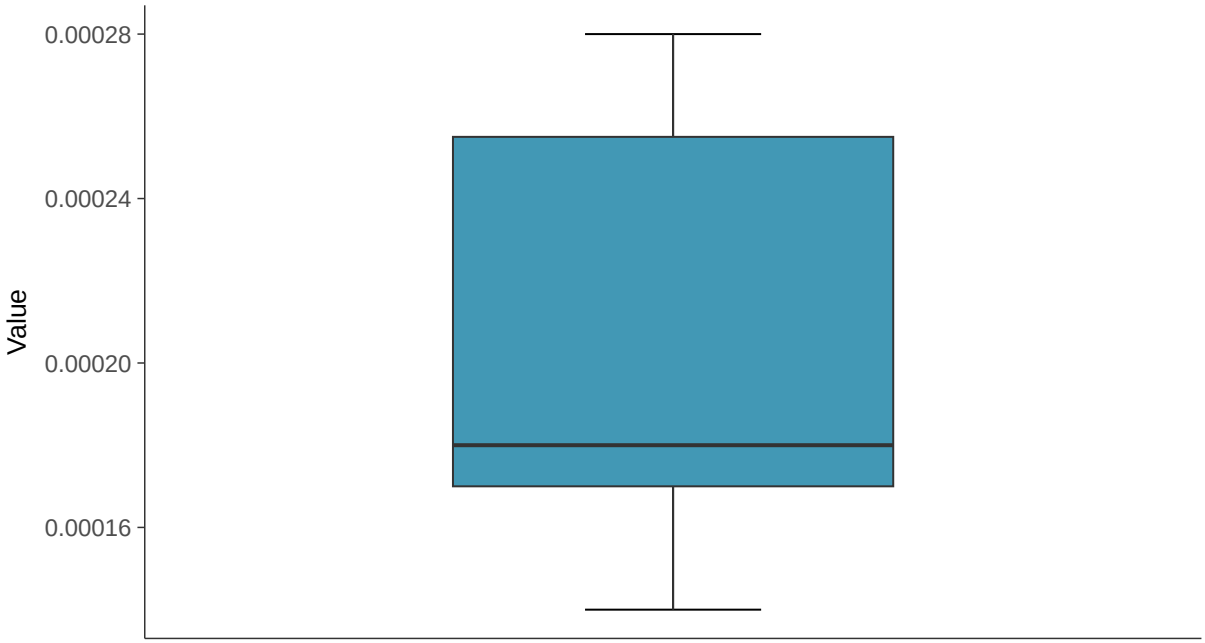
ID: 46_1_4_110





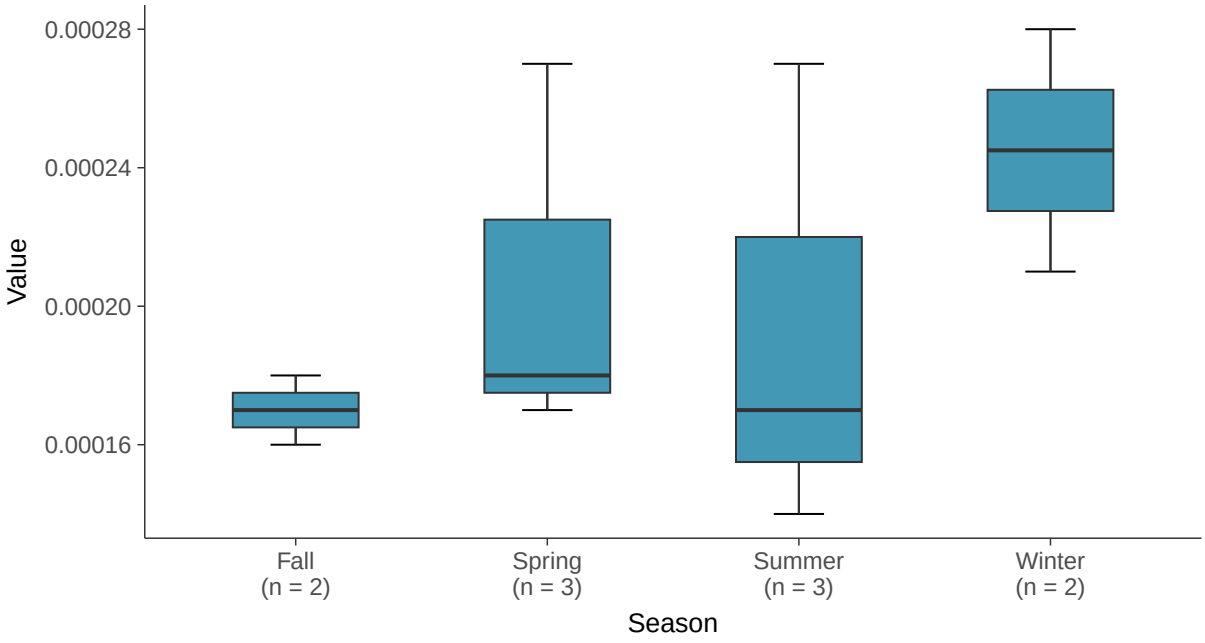
Boxplot

Cobalt, MW-36 (mg/L)



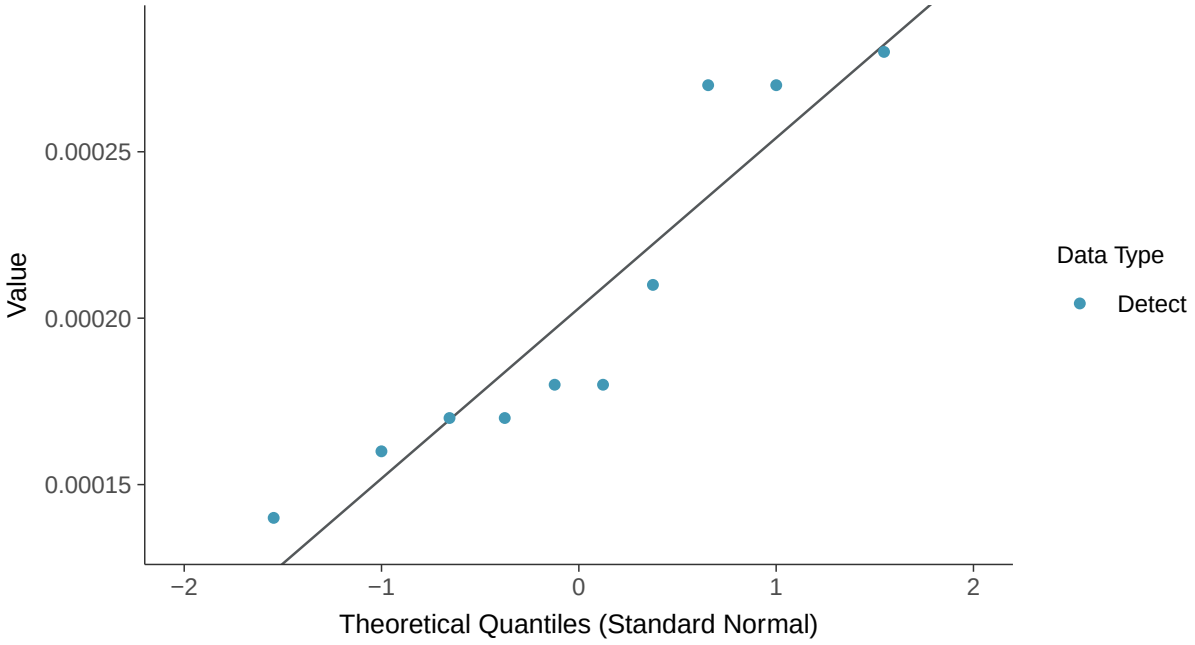
Boxplot by Season

Cobalt, MW-36 (mg/L)



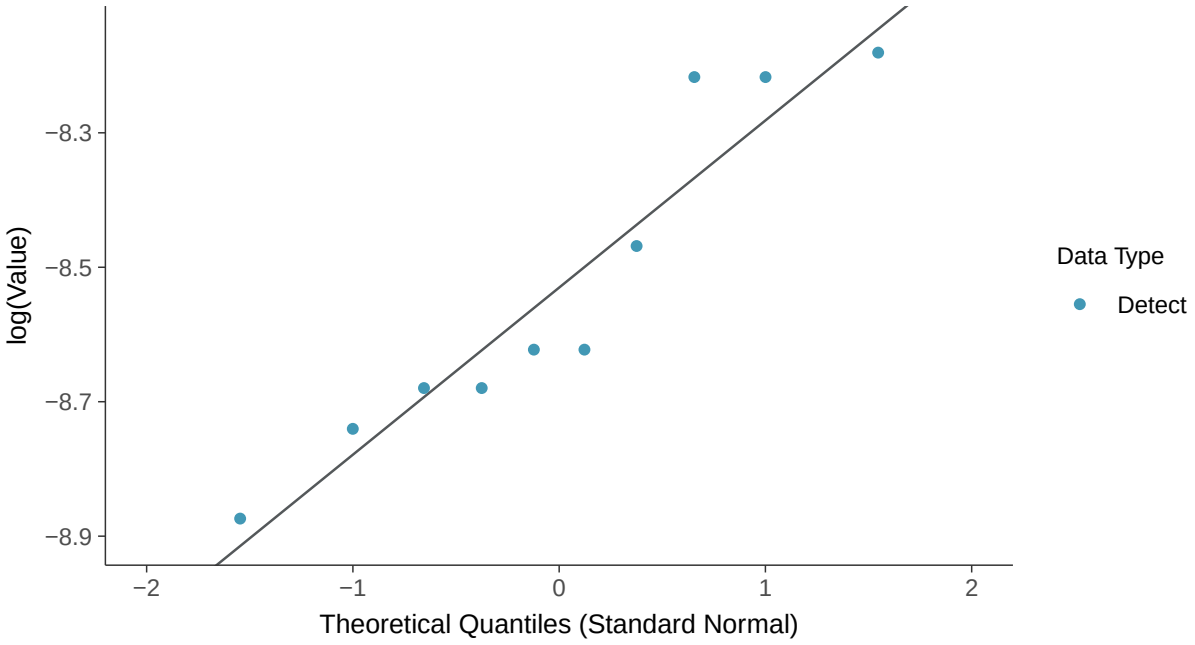
Normal Q-Q plot

Cobalt, MW-36 (mg/L)



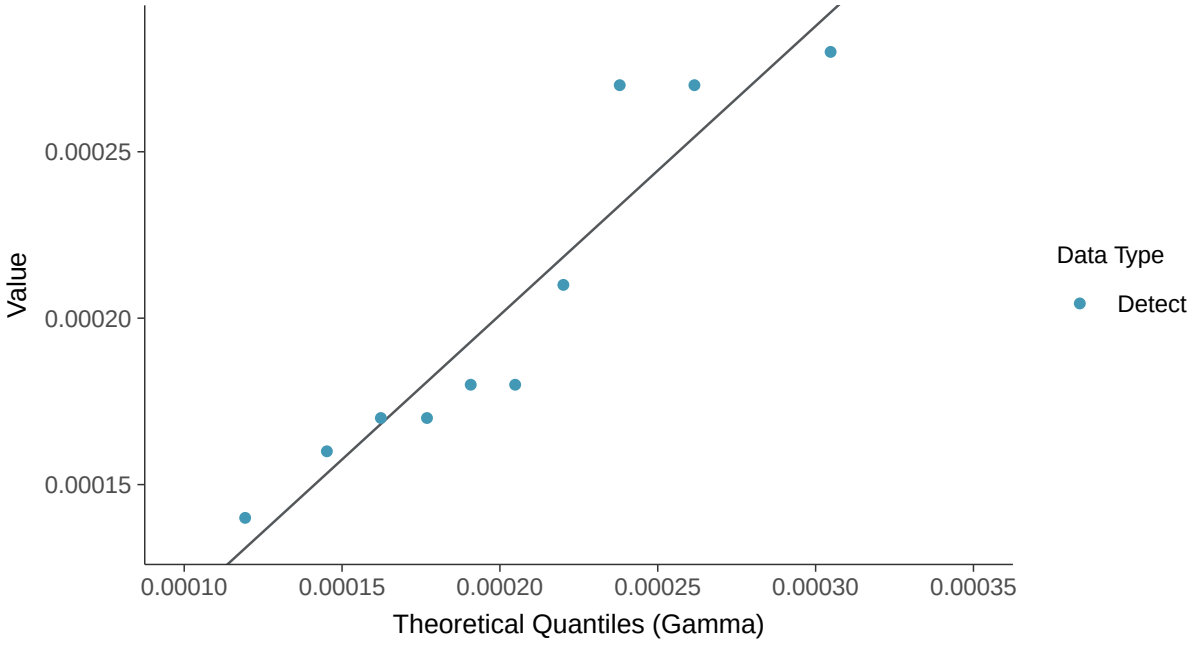
Lognormal Q-Q plot

Cobalt, MW-36 (mg/L)



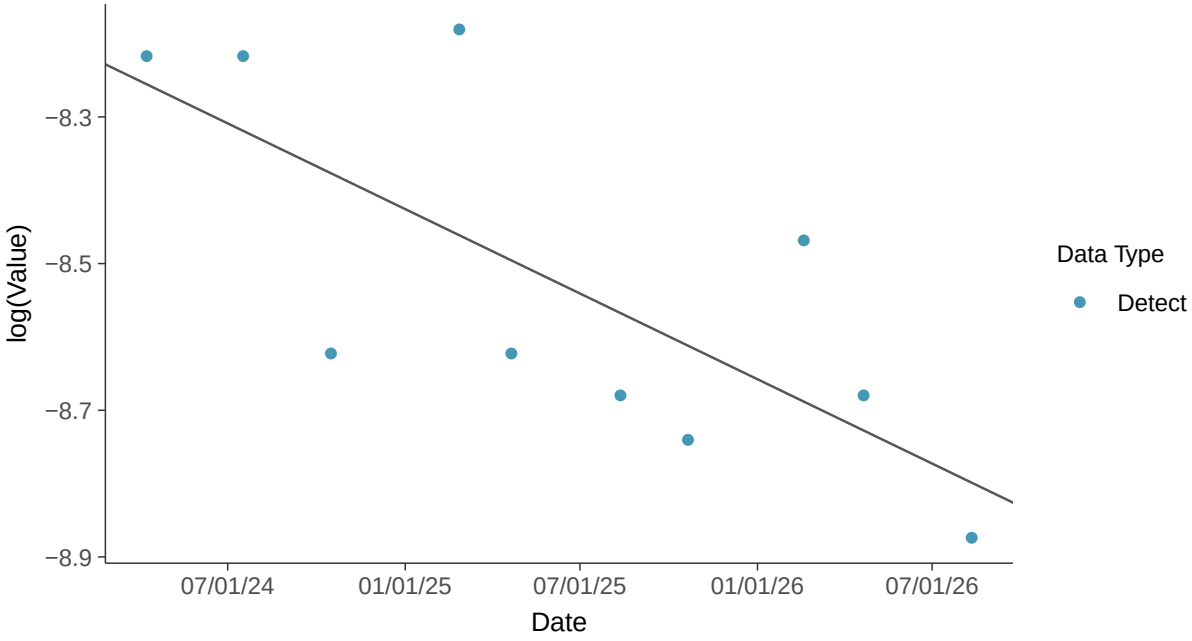
Gamma Q-Q plot

Cobalt, MW-36 (mg/L)



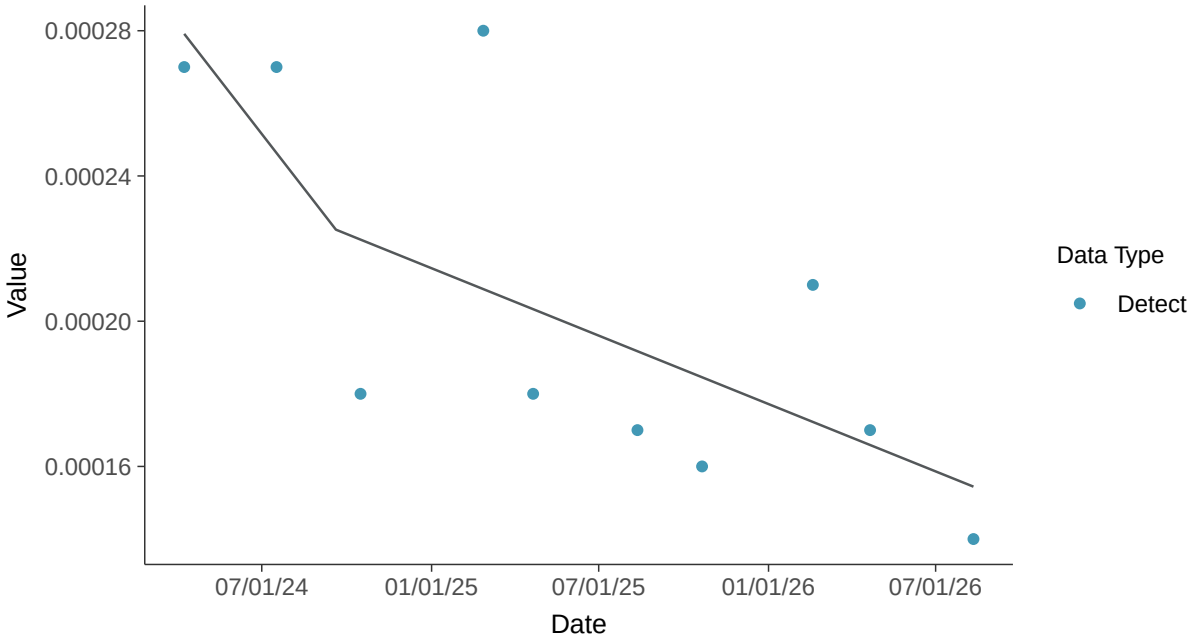
Trend Regression: Lognormal MLE

Cobalt, MW-36 (mg/L)



Trend Regression: Piecewise Linear-Linear

Cobalt, MW-36 (mg/L)

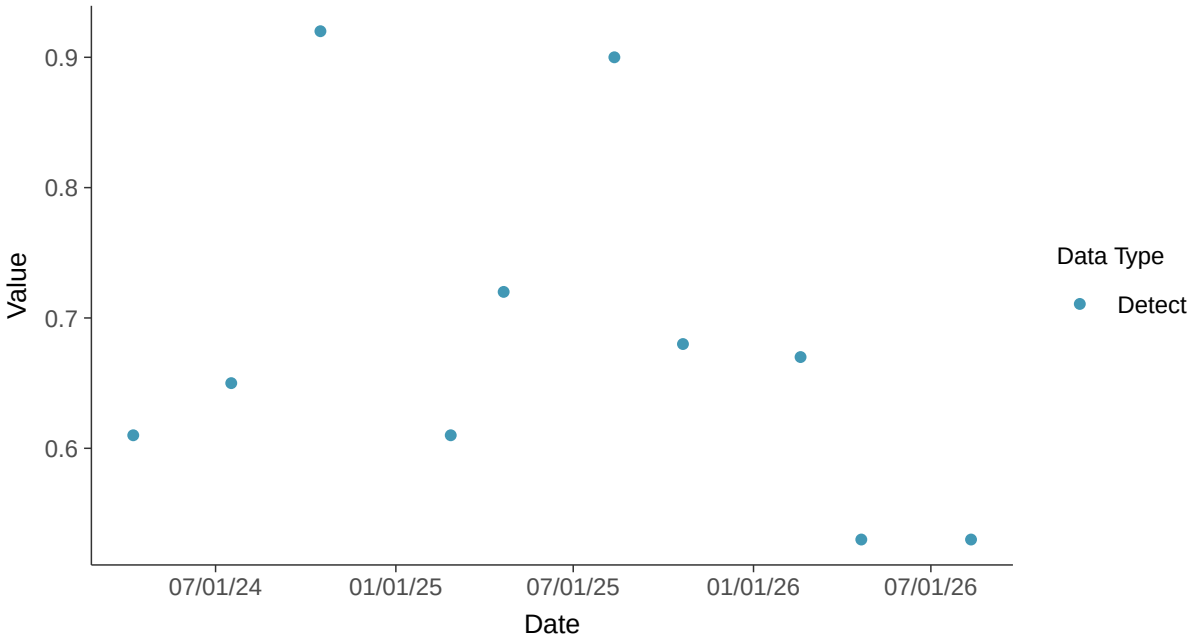


Appendix IV: Fluoride (App IV), MW-36

ID: 46_1_4_113

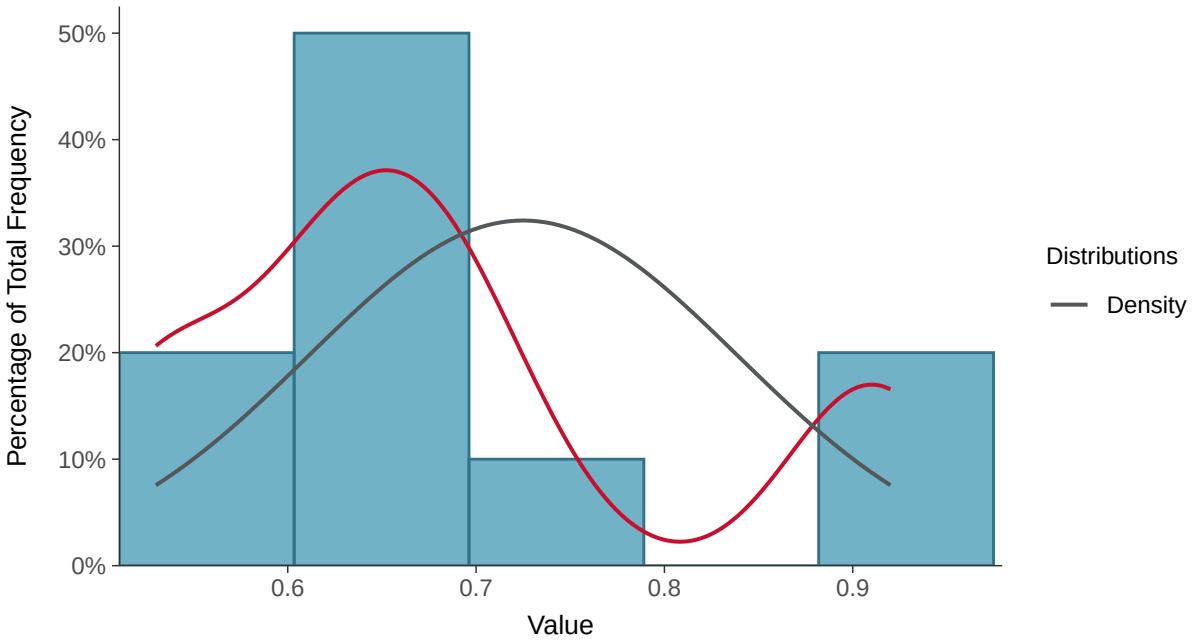
Scatter Plot

Fluoride (App IV), MW-36 (mg/L)



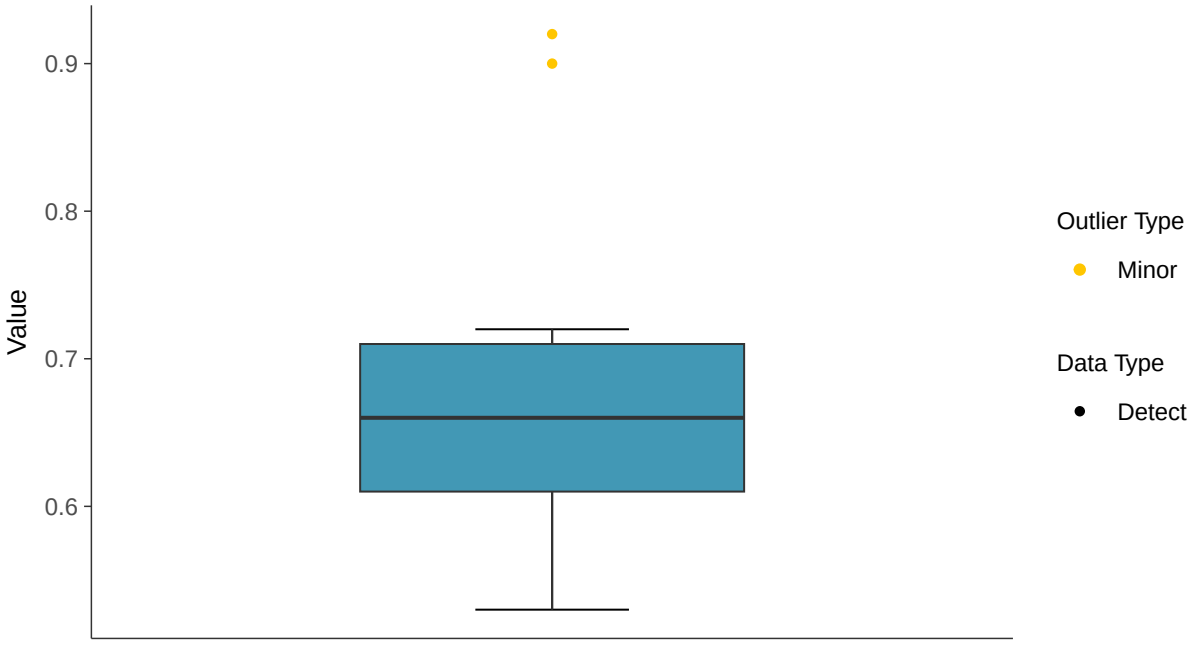
Histogram

Fluoride (App IV), MW-36 (mg/L)



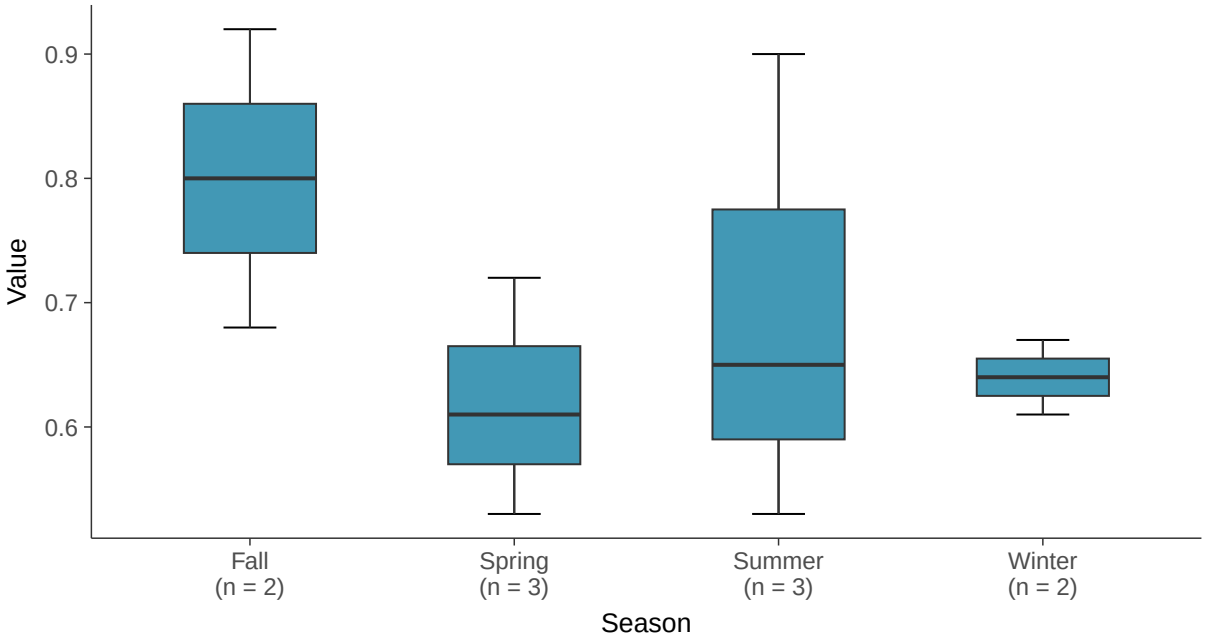
Boxplot

Fluoride (App IV), MW-36 (mg/L)



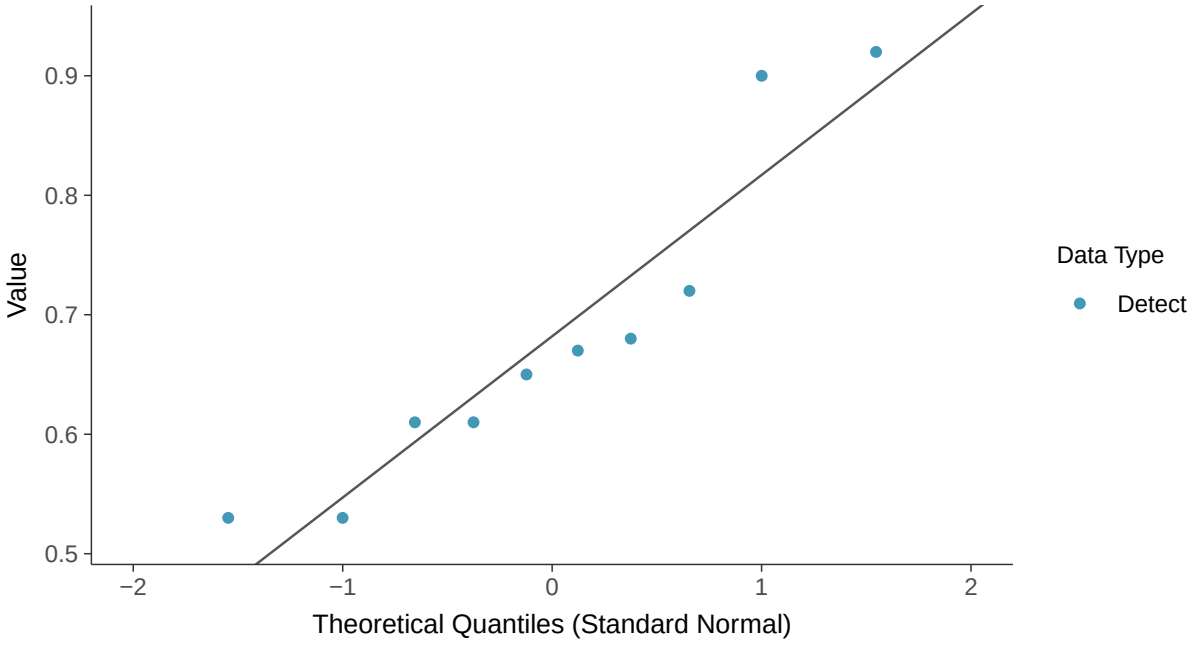
Boxplot by Season

Fluoride (App IV), MW-36 (mg/L)



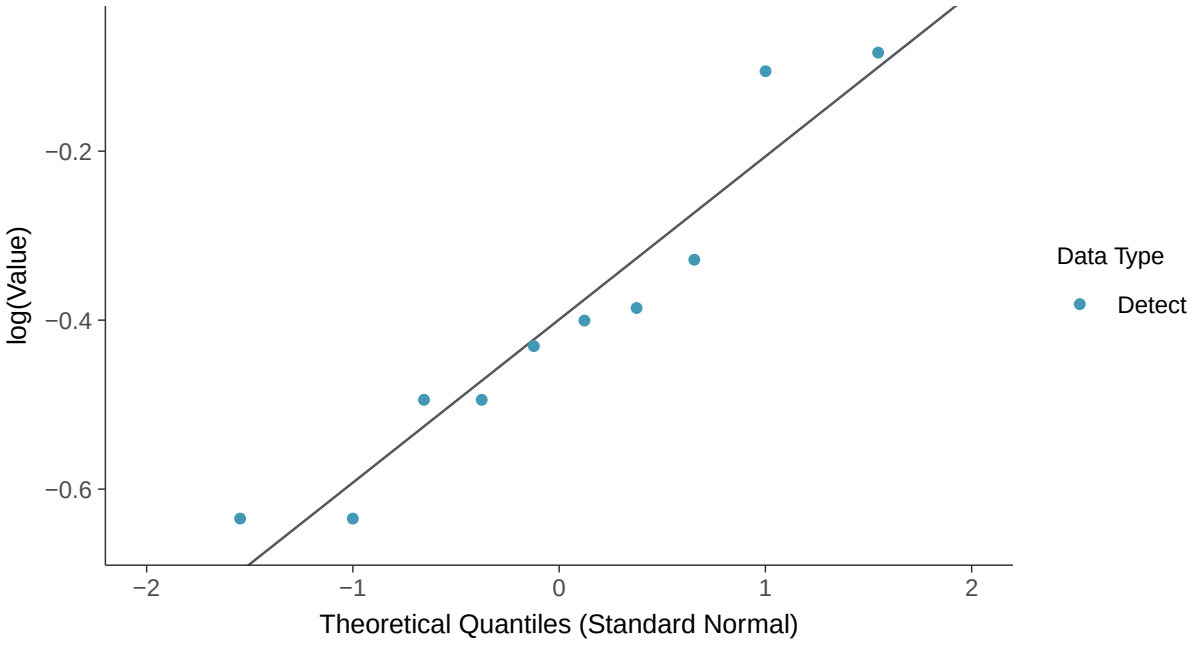
Normal Q-Q plot

Fluoride (App IV), MW-36 (mg/L)



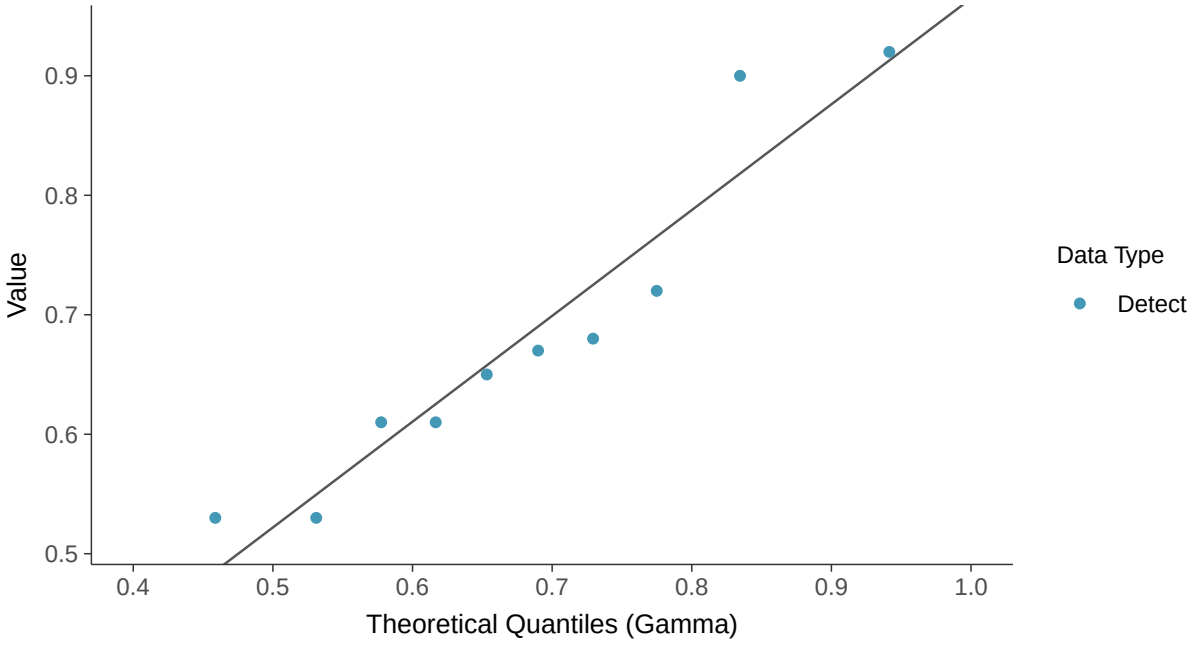
Lognormal Q-Q plot

Fluoride (App IV), MW-36 (mg/L)



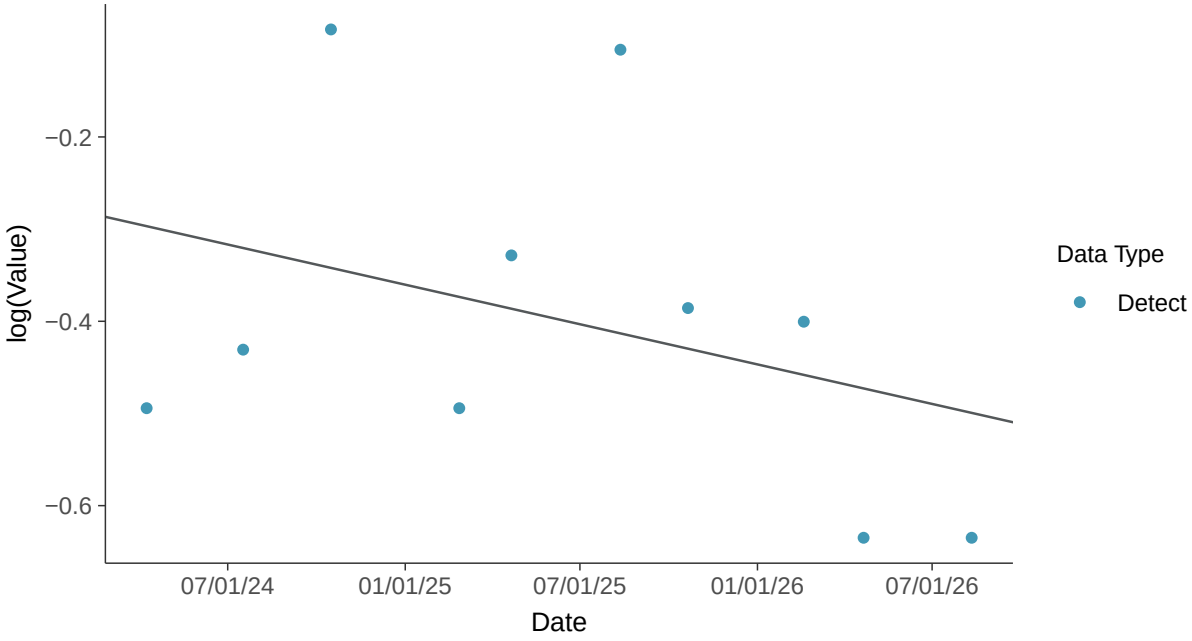
Gamma Q-Q plot

Fluoride (App IV), MW-36 (mg/L)



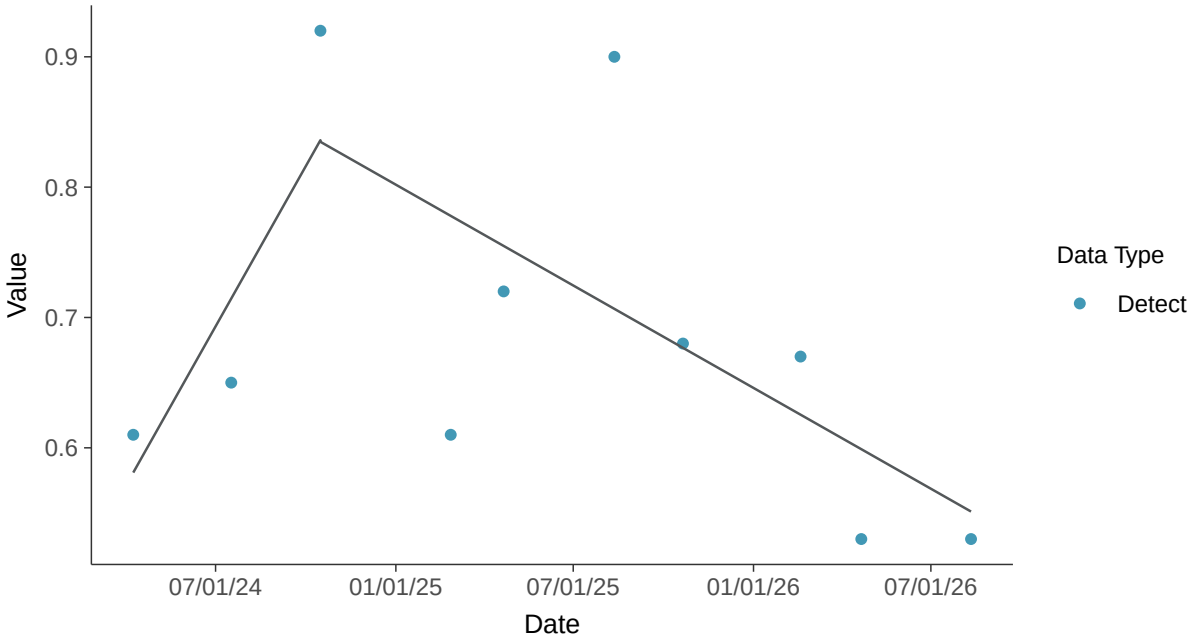
Trend Regression: Lognormal MLE

Fluoride (App IV), MW-36 (mg/L)



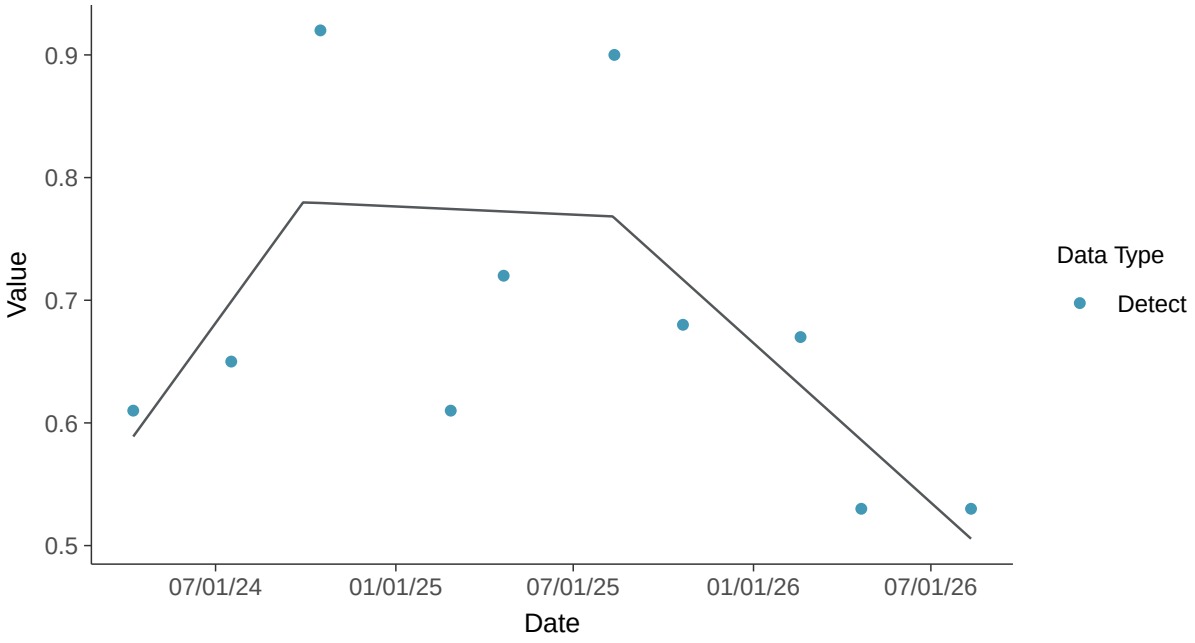
Trend Regression: Piecewise Linear-Linear

Fluoride (App IV), MW-36 (mg/L)



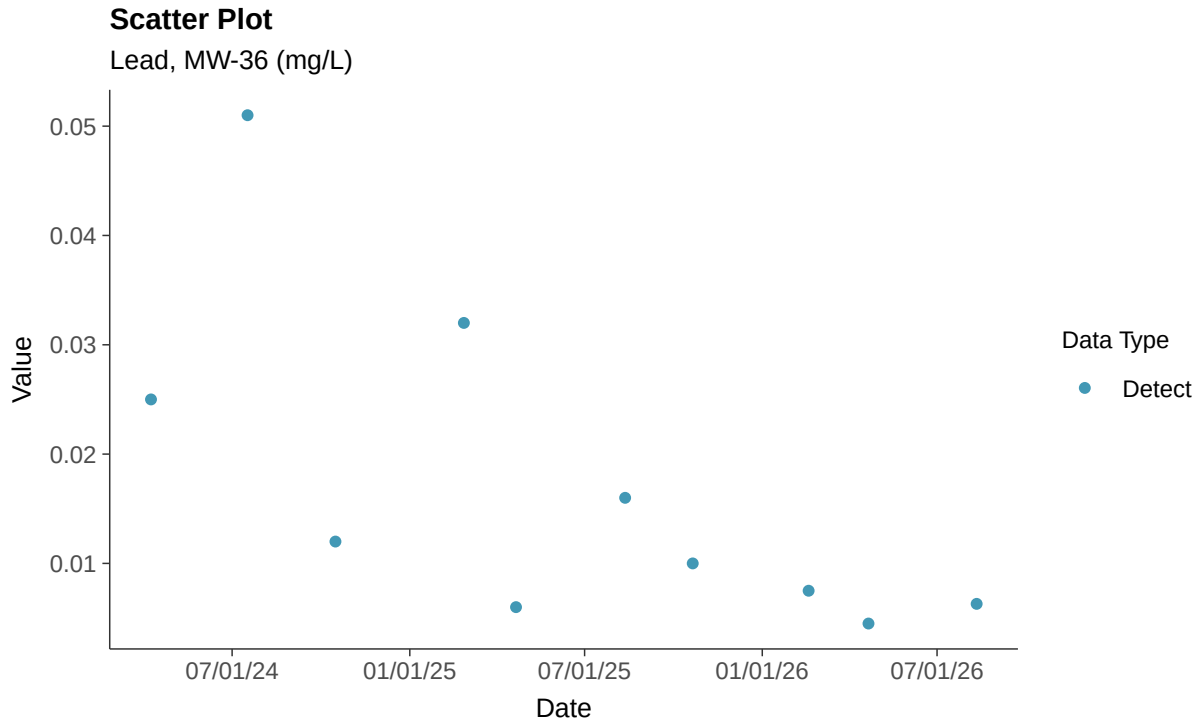
Trend Regression: Piecewise Linear-Linear-Linear

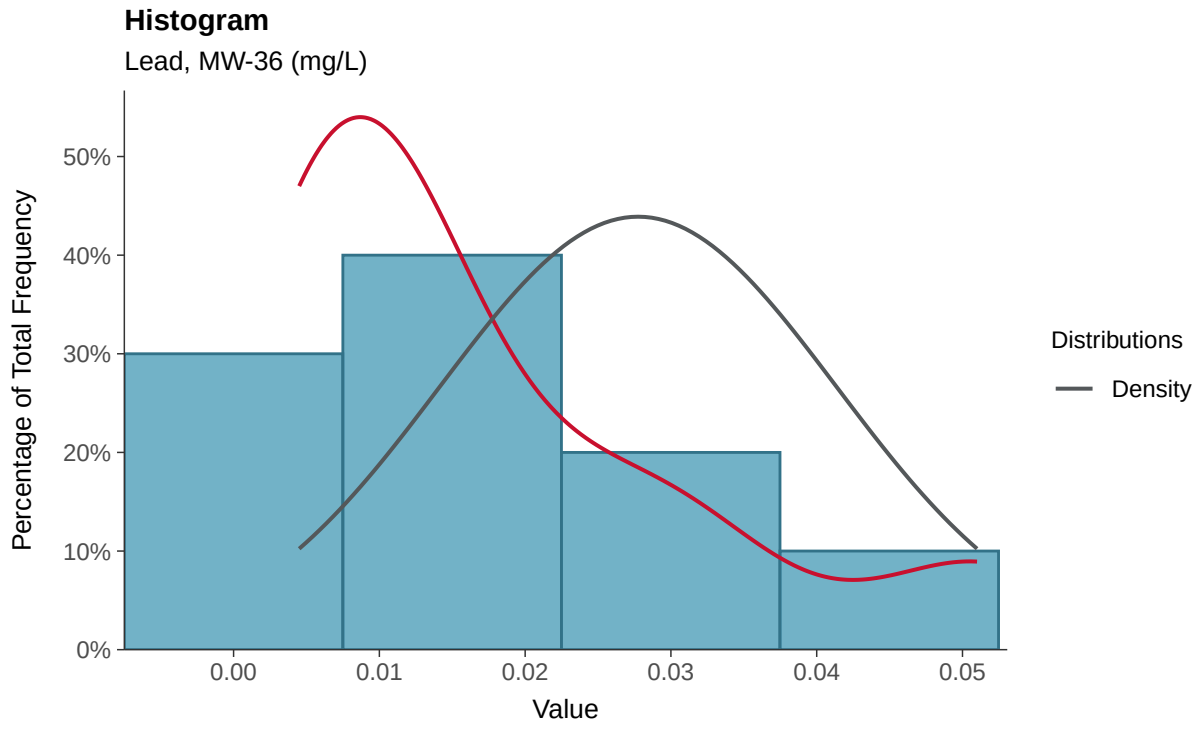
Fluoride (App IV), MW-36 (mg/L)



Appendix IV: Lead, MW-36

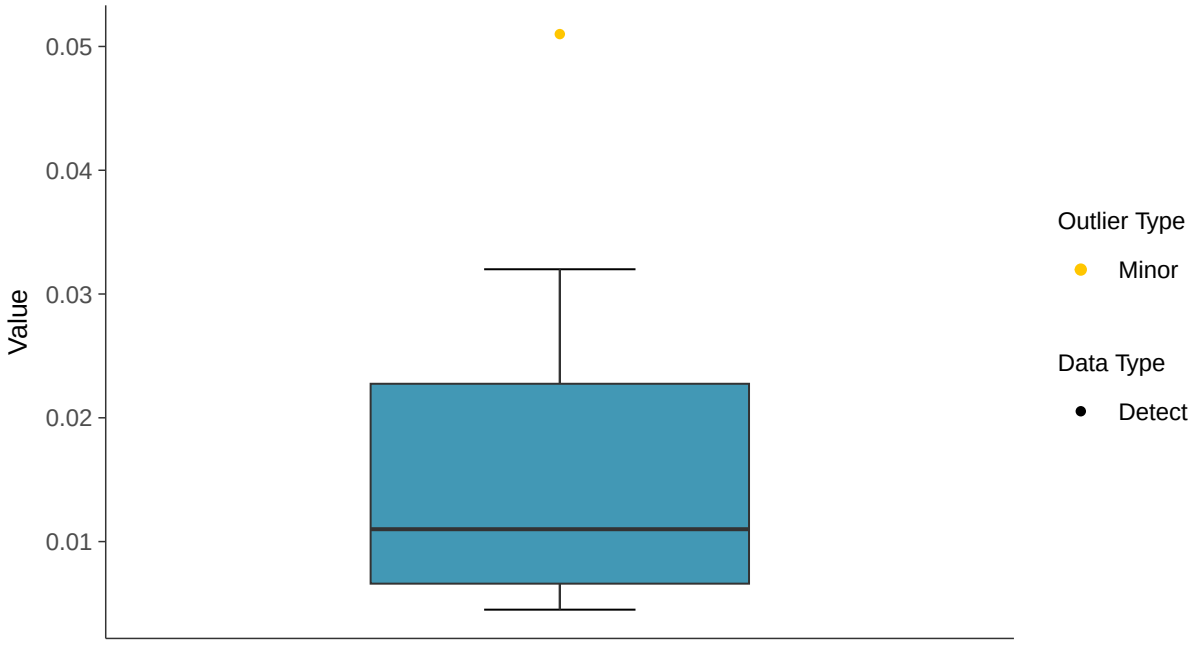
ID: 46_1_4_115





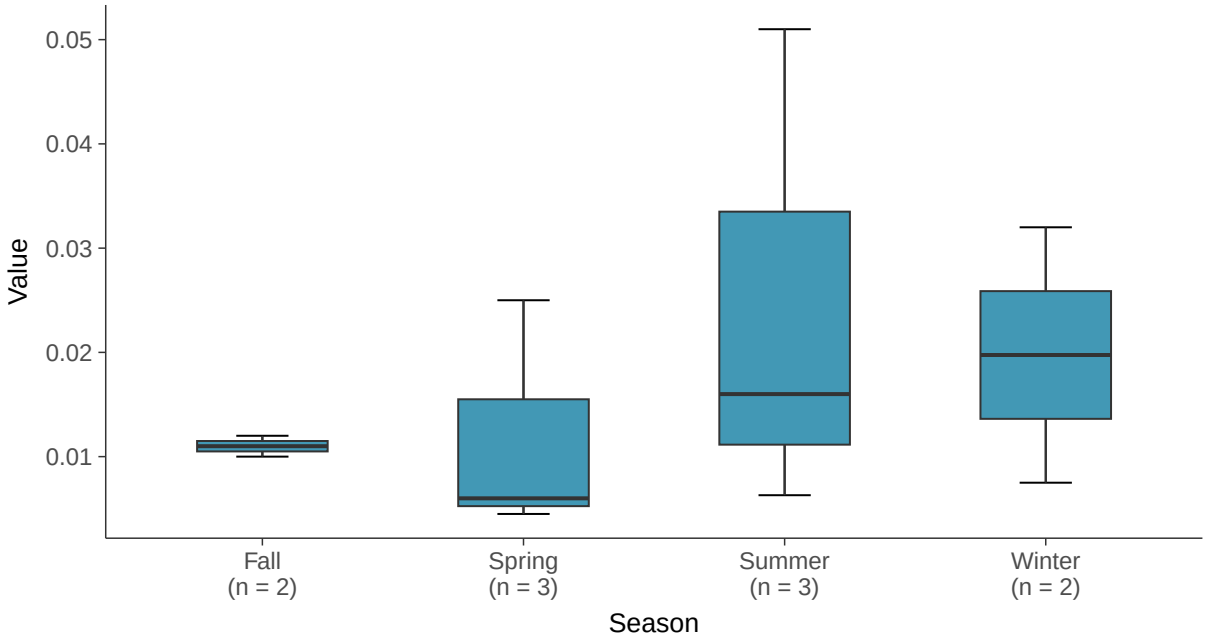
Boxplot

Lead, MW-36 (mg/L)



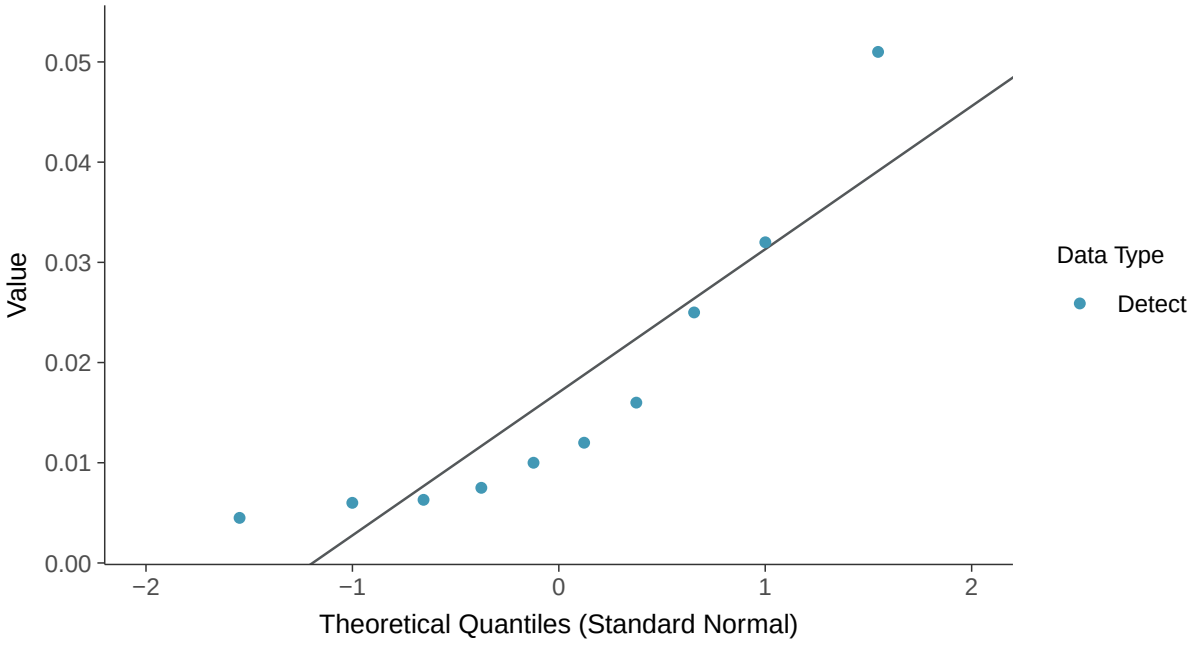
Boxplot by Season

Lead, MW-36 (mg/L)



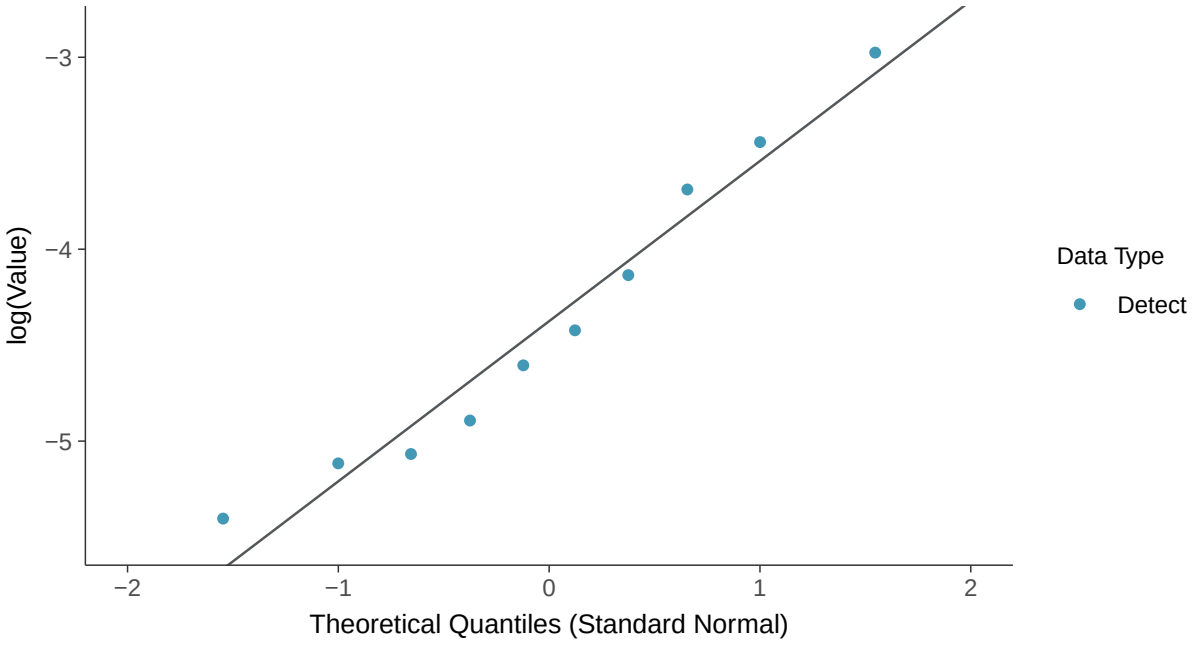
Normal Q-Q plot

Lead, MW-36 (mg/L)



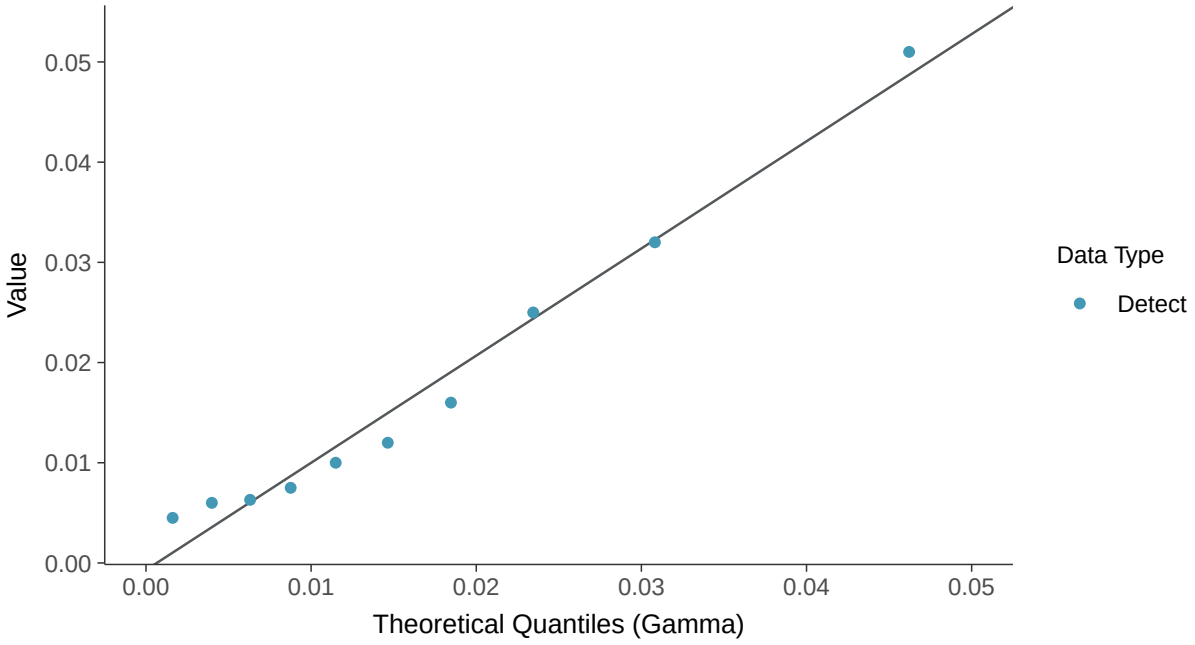
Lognormal Q-Q plot

Lead, MW-36 (mg/L)



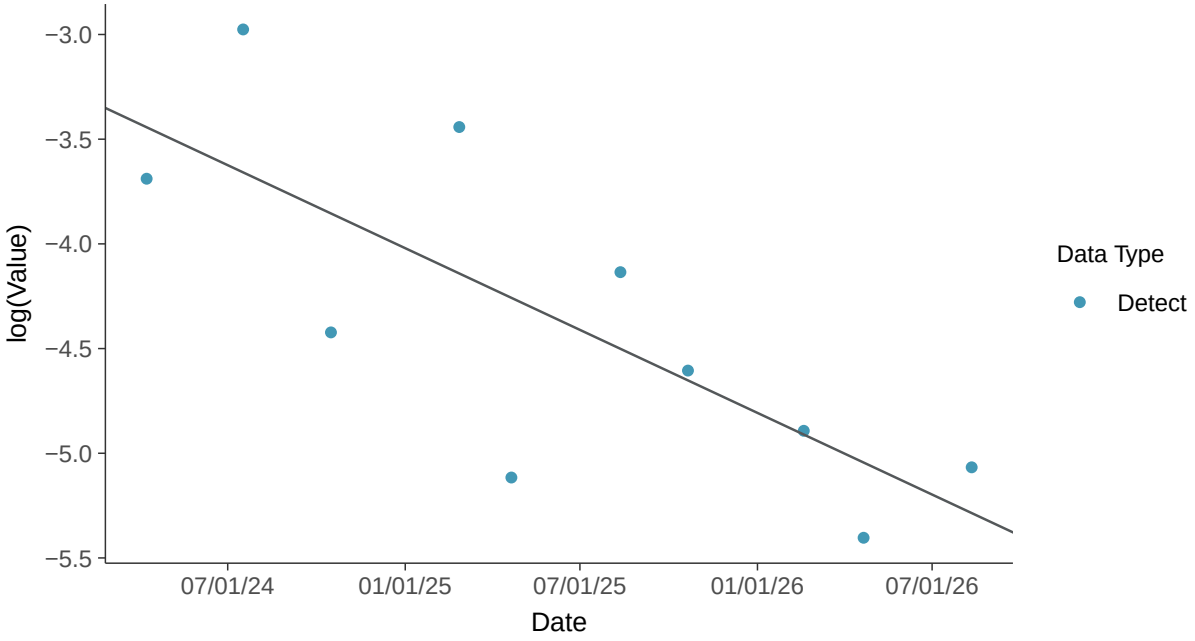
Gamma Q-Q plot

Lead, MW-36 (mg/L)



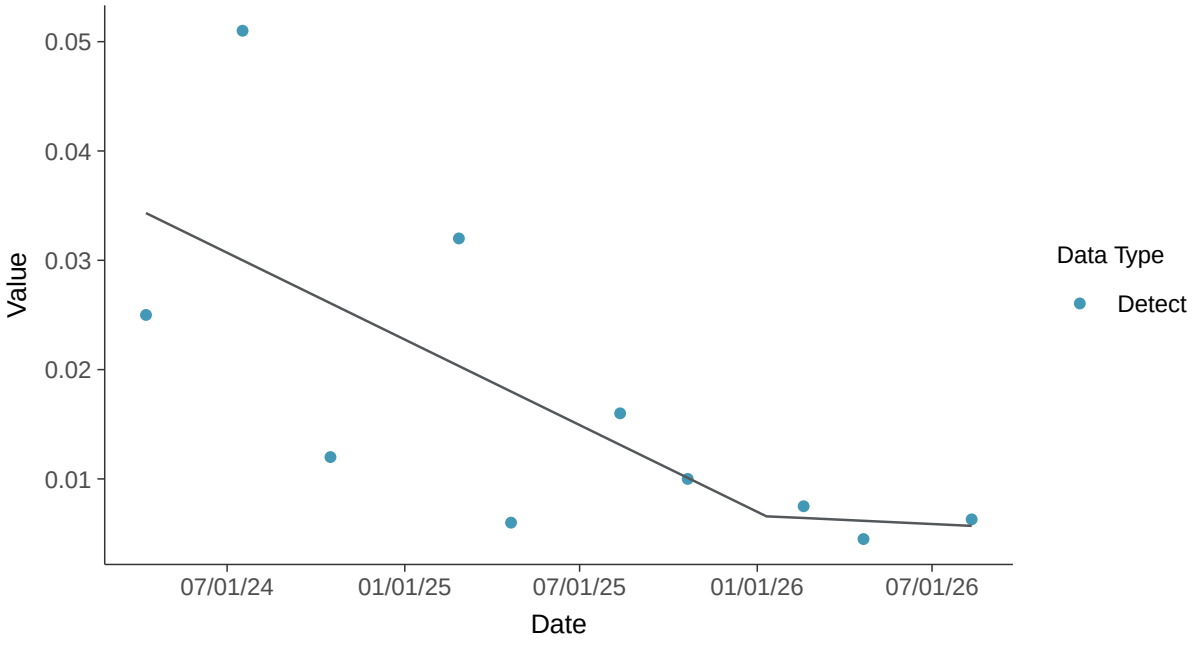
Trend Regression: Lognormal MLE

Lead, MW-36 (mg/L)



Trend Regression: Piecewise Linear-Linear

Lead, MW-36 (mg/L)

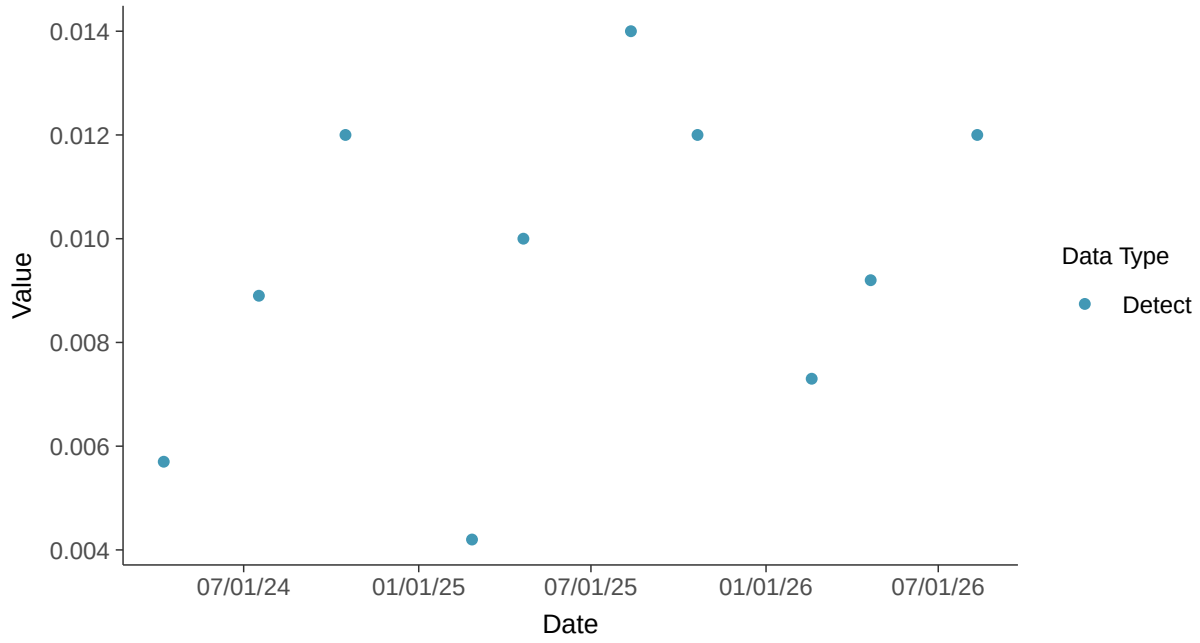


Appendix IV: Lithium, MW-36

ID: 46_1_4_116

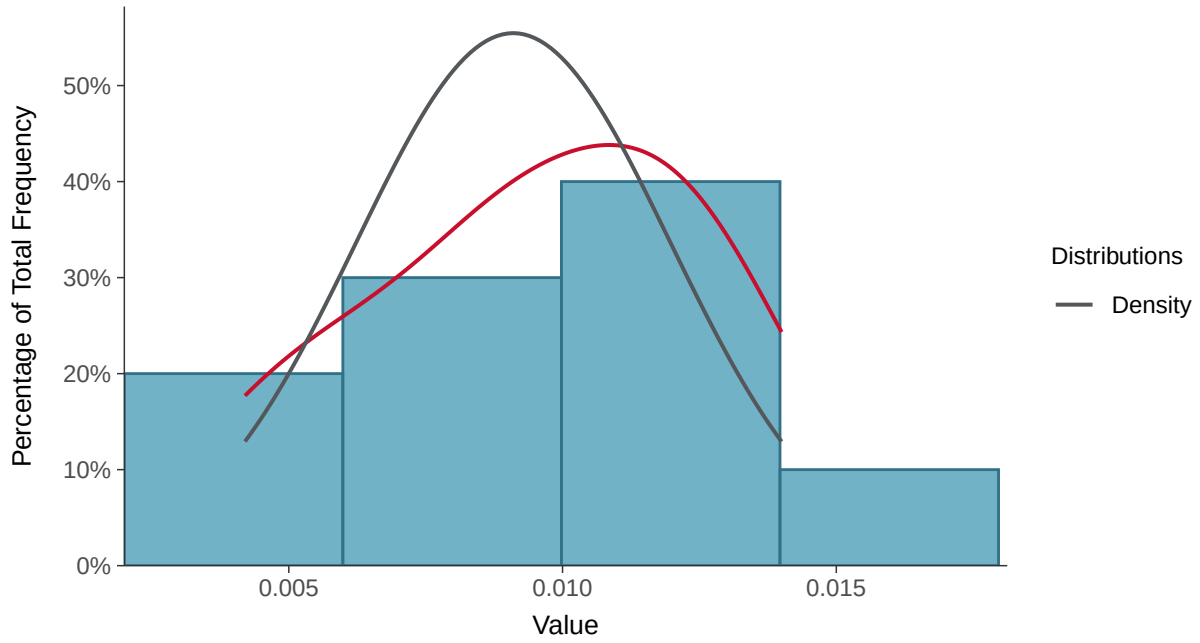
Scatter Plot

Lithium, MW-36 (mg/L)



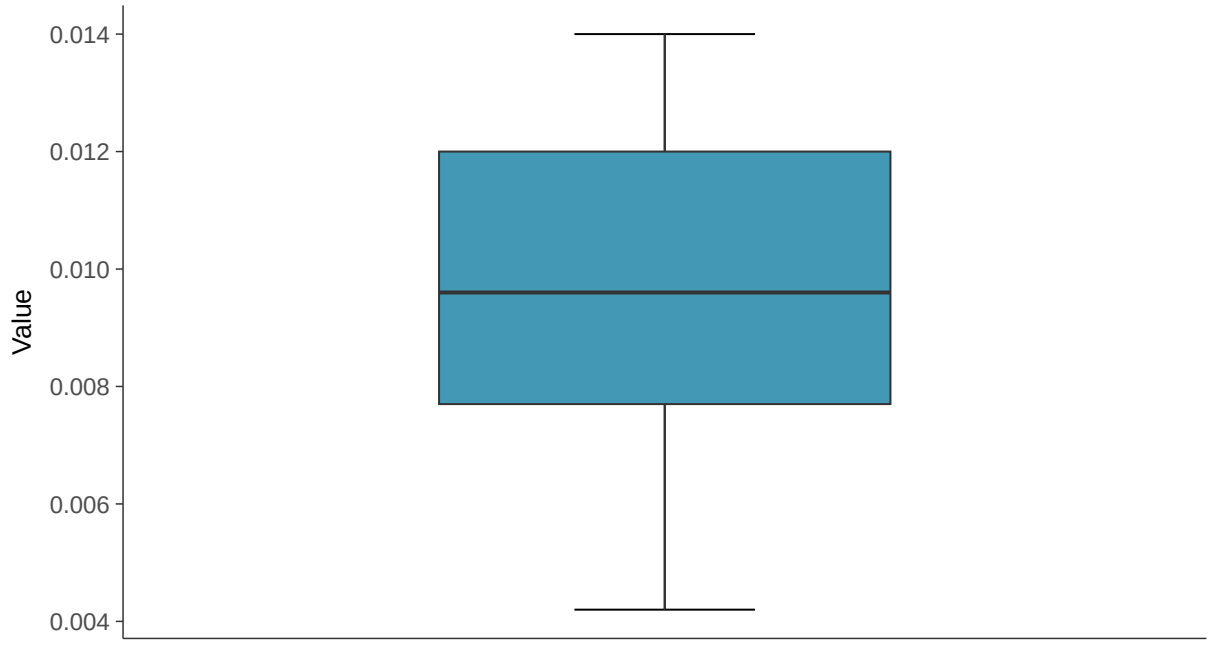
Histogram

Lithium, MW-36 (mg/L)



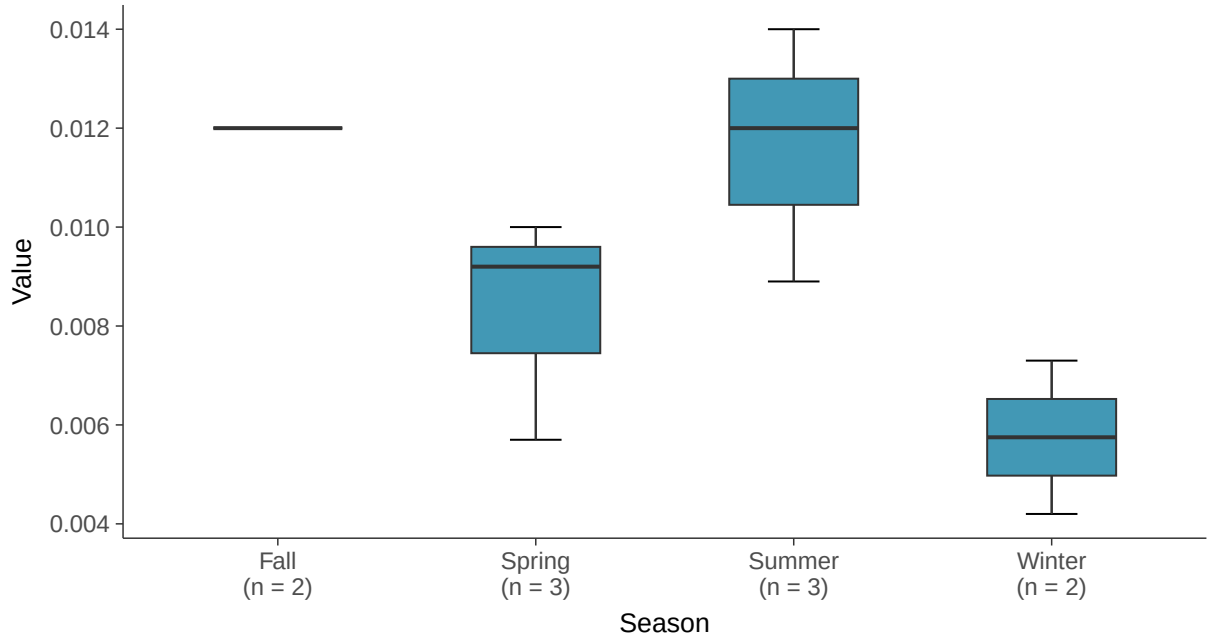
Boxplot

Lithium, MW-36 (mg/L)



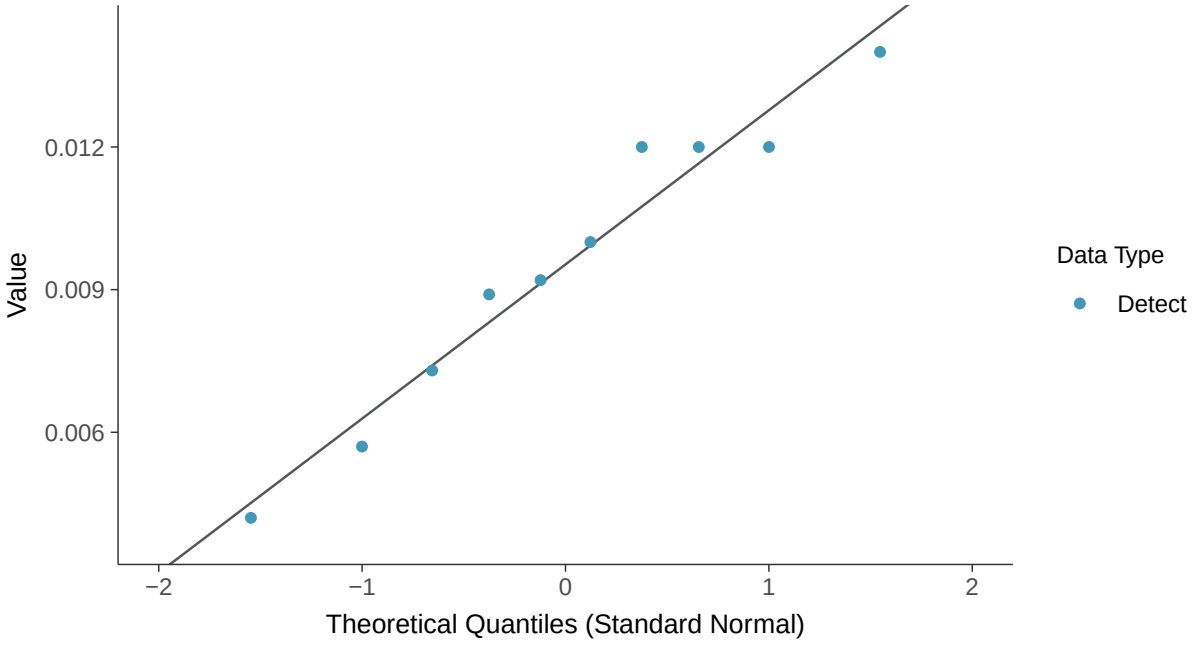
Boxplot by Season

Lithium, MW-36 (mg/L)



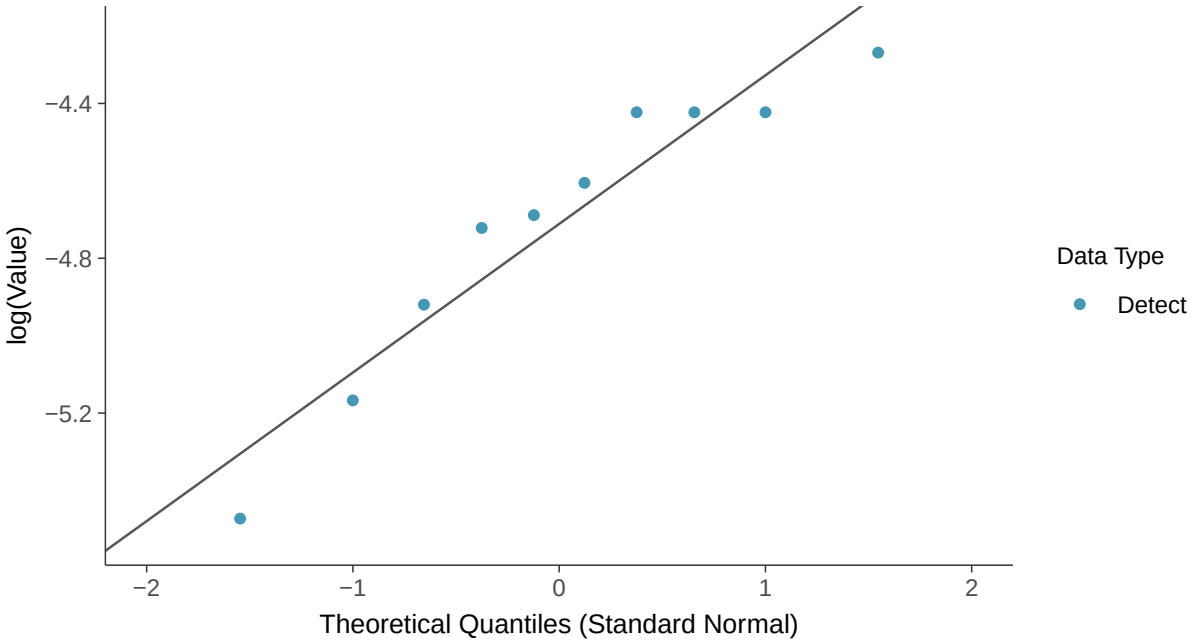
Normal Q-Q plot

Lithium, MW-36 (mg/L)



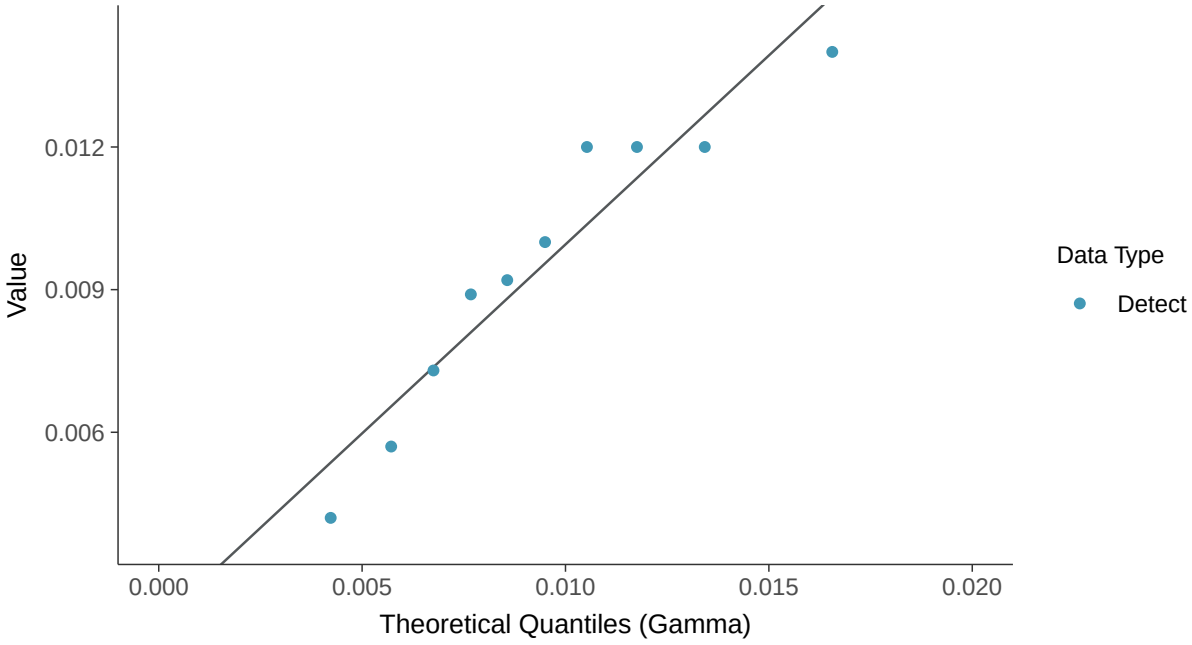
Lognormal Q-Q plot

Lithium, MW-36 (mg/L)



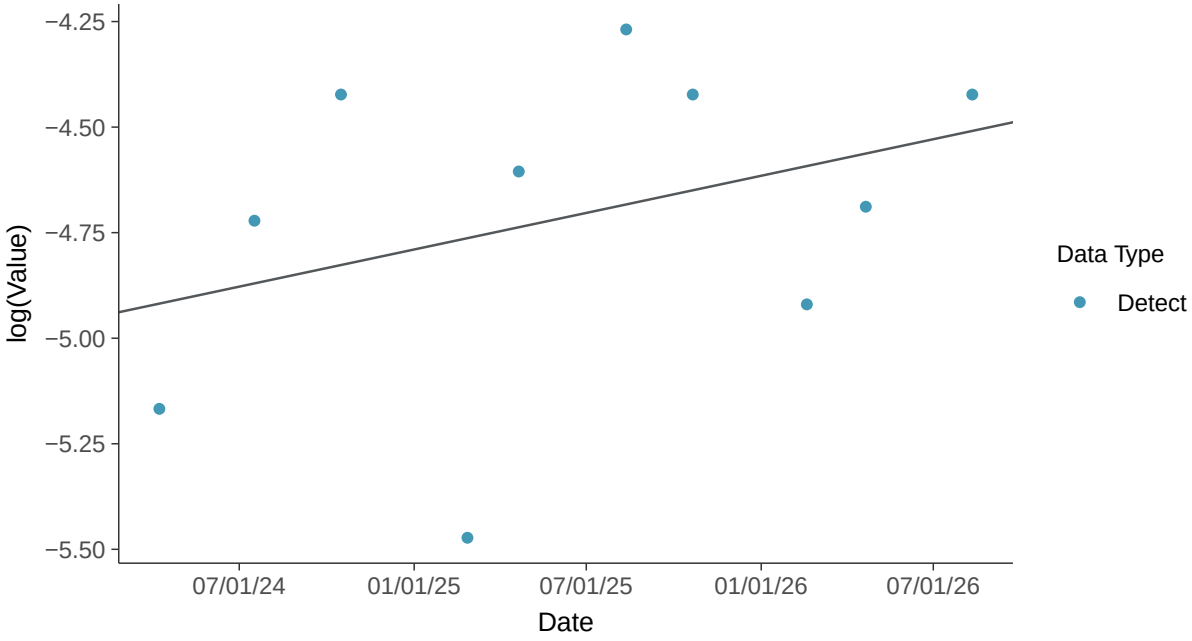
Gamma Q-Q plot

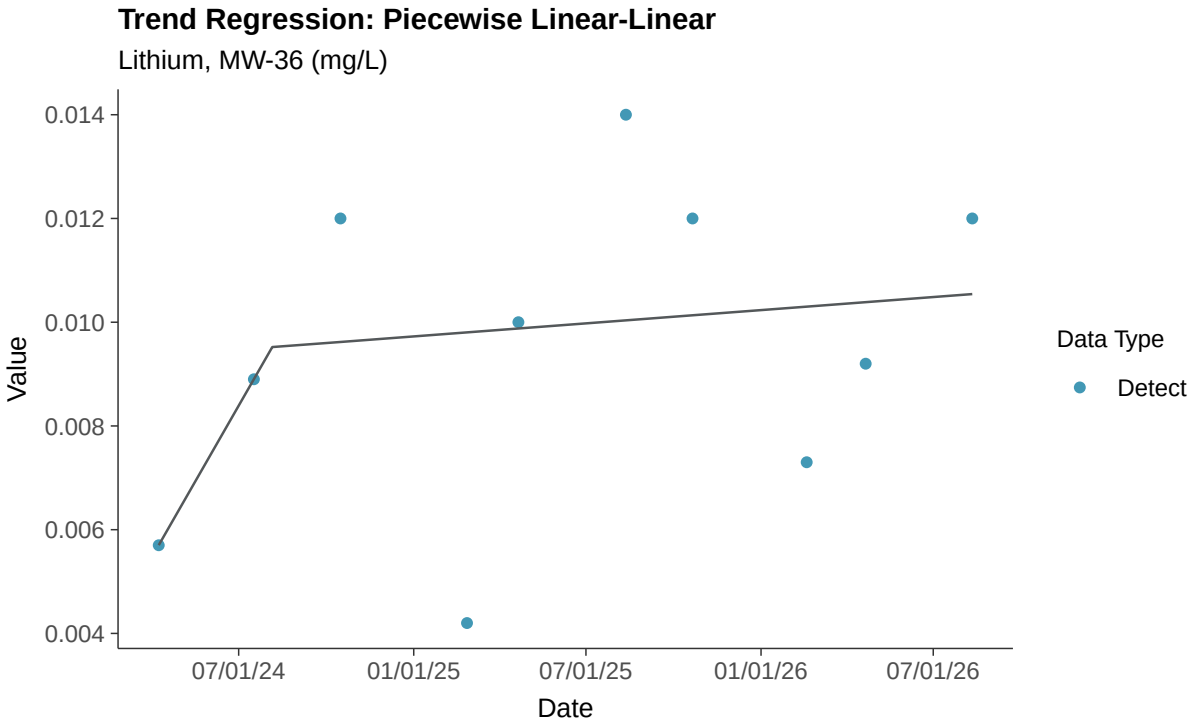
Lithium, MW-36 (mg/L)



Trend Regression: Lognormal MLE

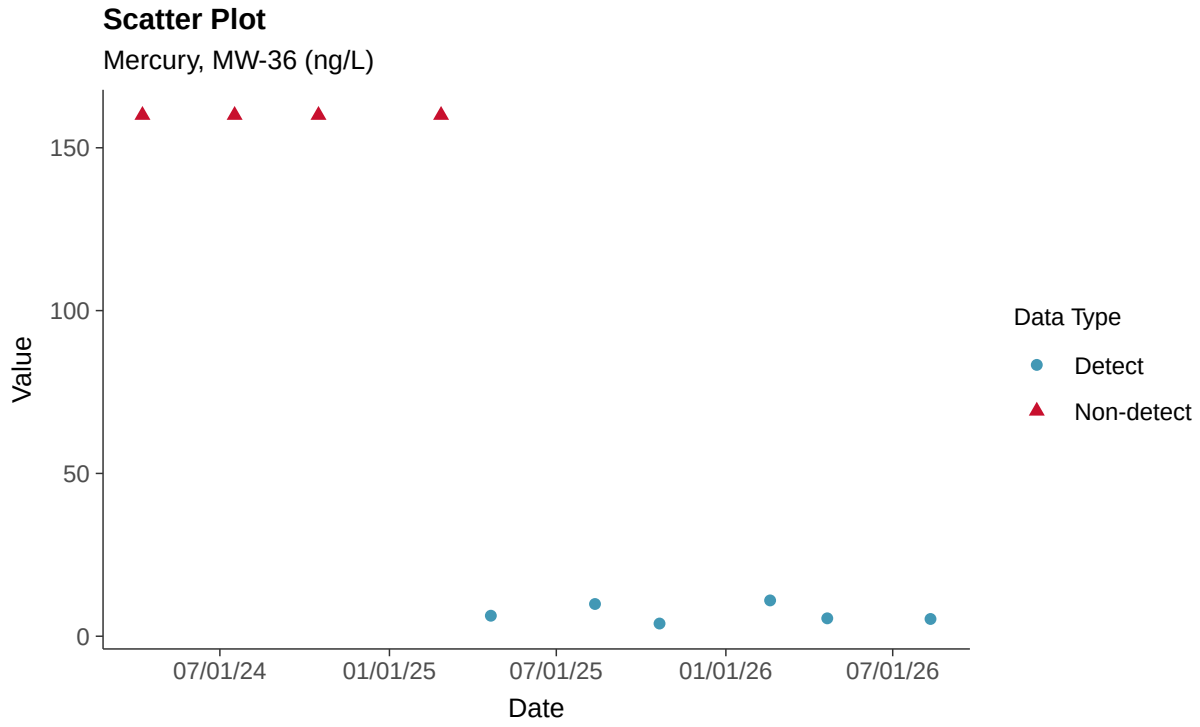
Lithium, MW-36 (mg/L)

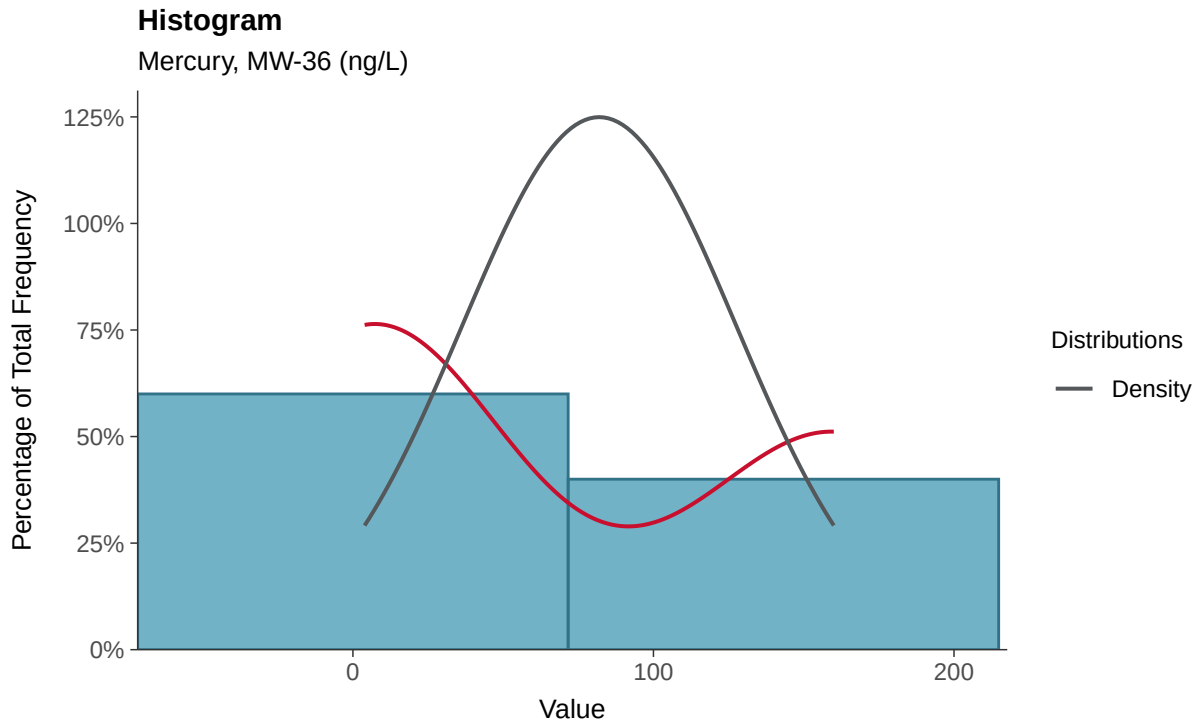



Trend Regression: Piecewise Linear-Linear
Lithium, MW-36 (mg/L)
Value
0.014
0.012
0.010
0.008
0.006
0.004
07/01/24
01/01/25
07/01/25
01/01/26
07/01/26
Date
Data Type
Detect

Appendix IV: Mercury, MW-36

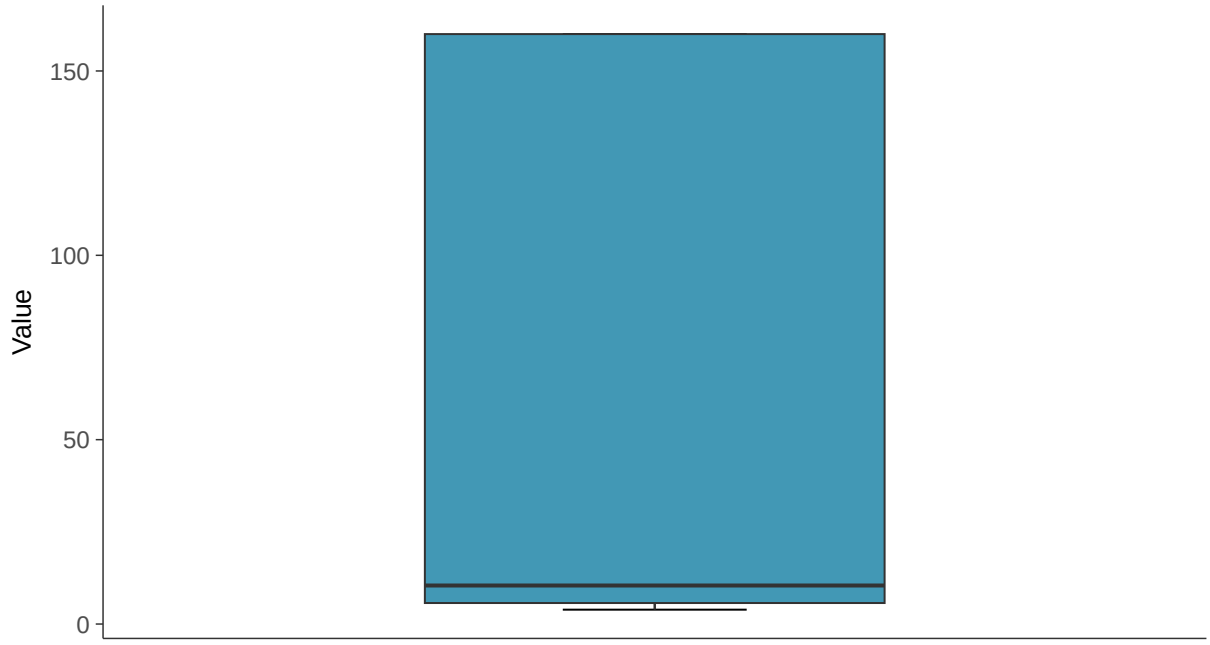
ID: 46_1_4_117





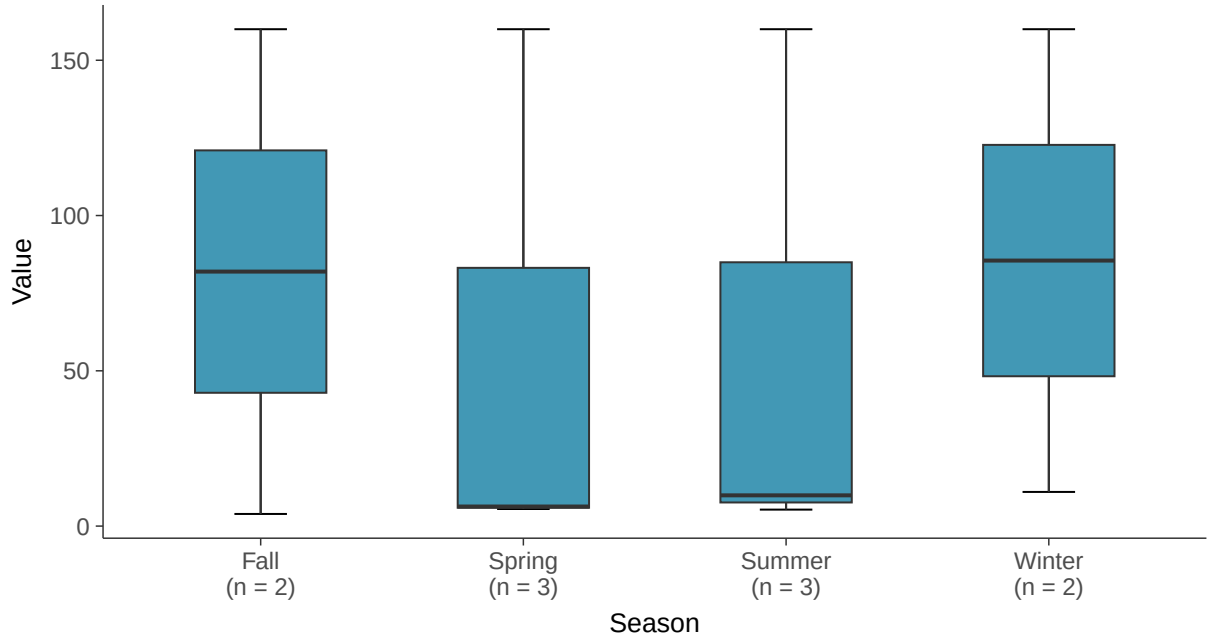
Boxplot

Mercury, MW-36 (ng/L)



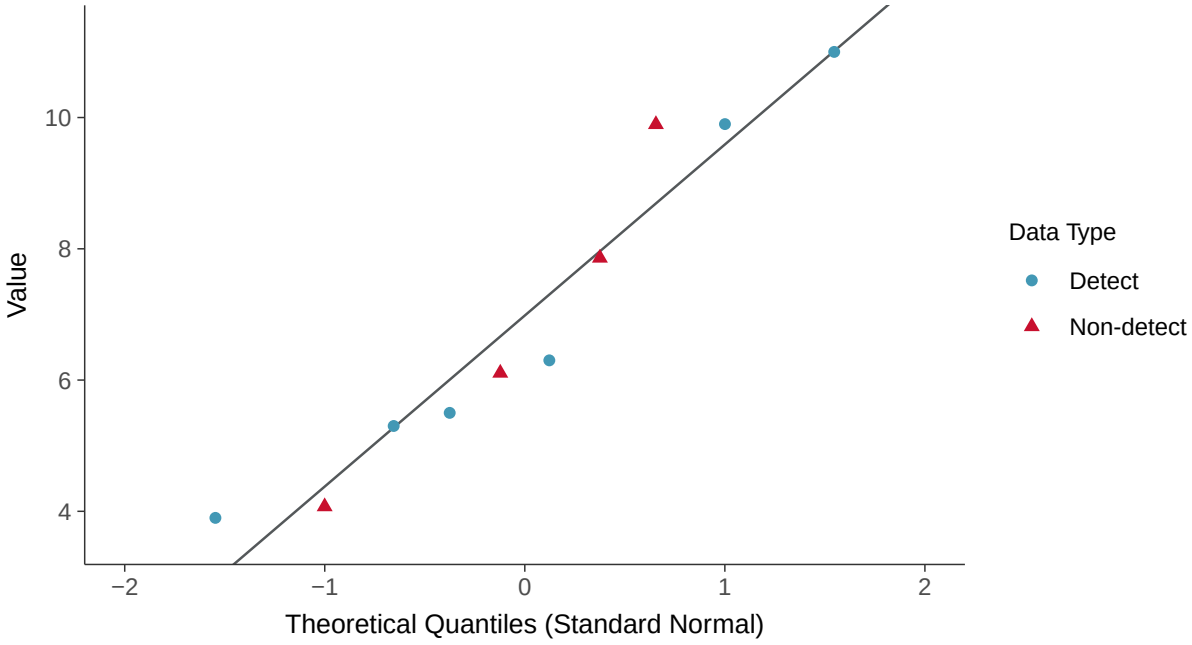
Boxplot by Season

Mercury, MW-36 (ng/L)



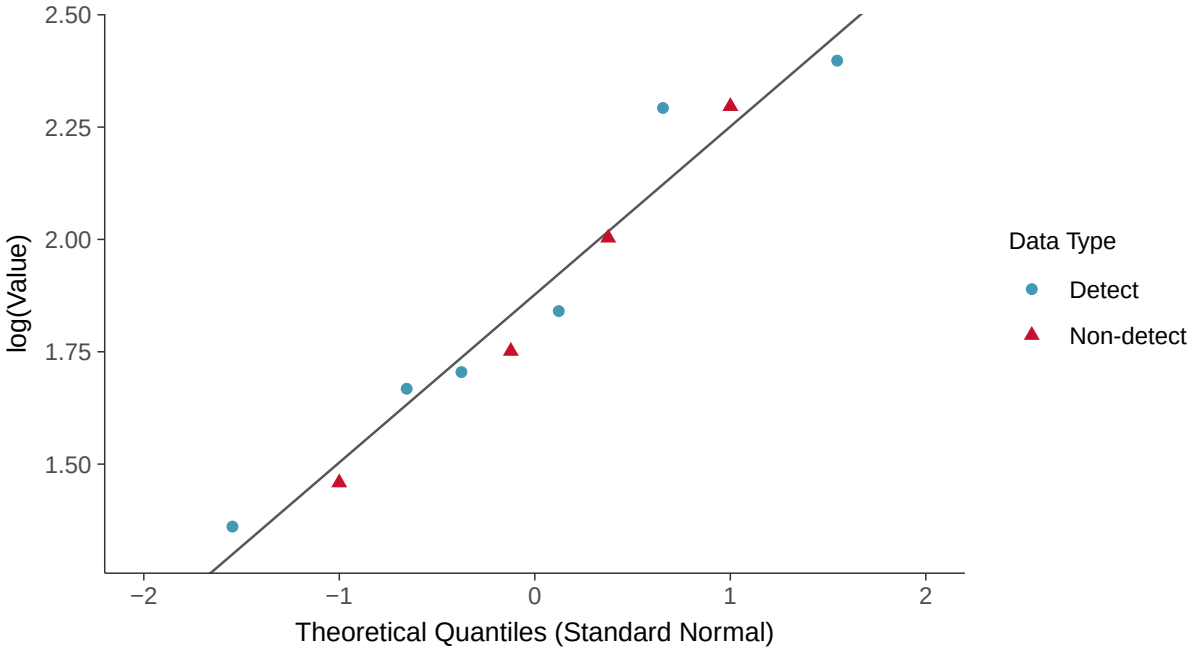
Normal Q-Q plot using ROS Imputed Estimates

Mercury, MW-36 (ng/L)



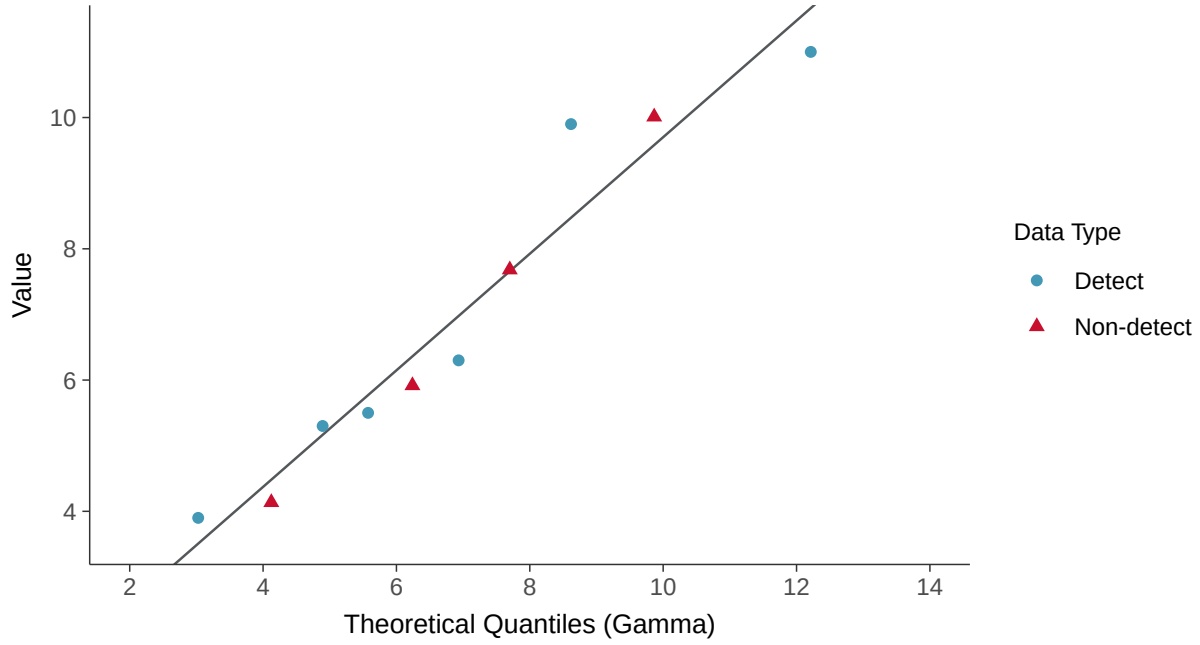
Lognormal Q-Q plot using ROS Imputed Estimates

Mercury, MW-36 (ng/L)



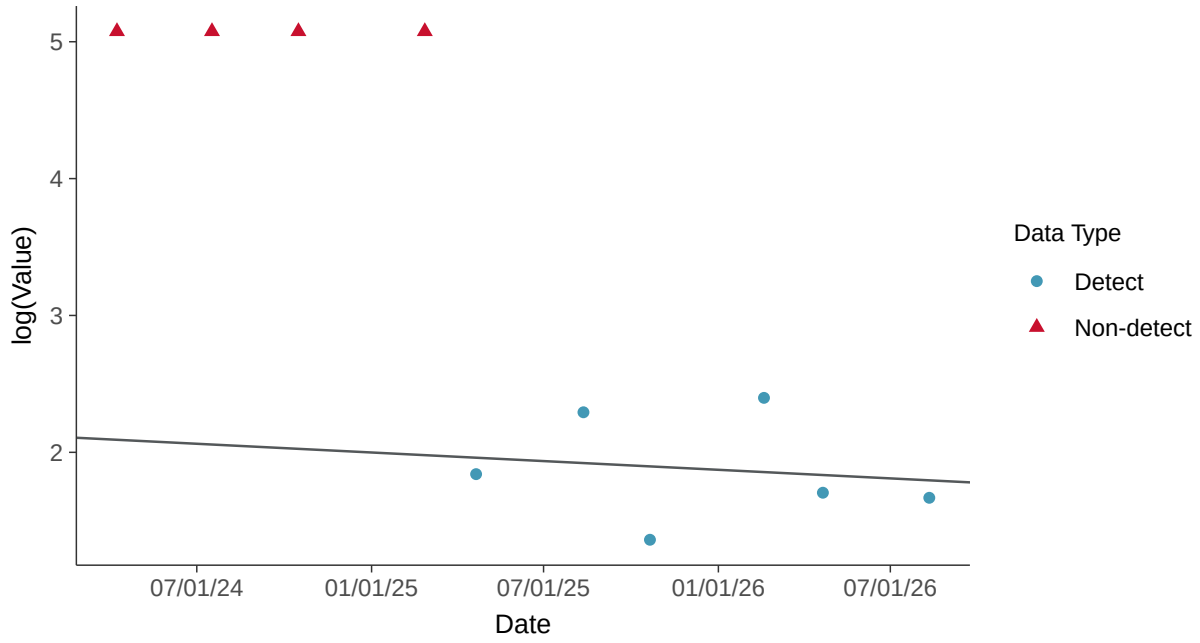
Gamma Q-Q plot using ROS Imputed Estimates

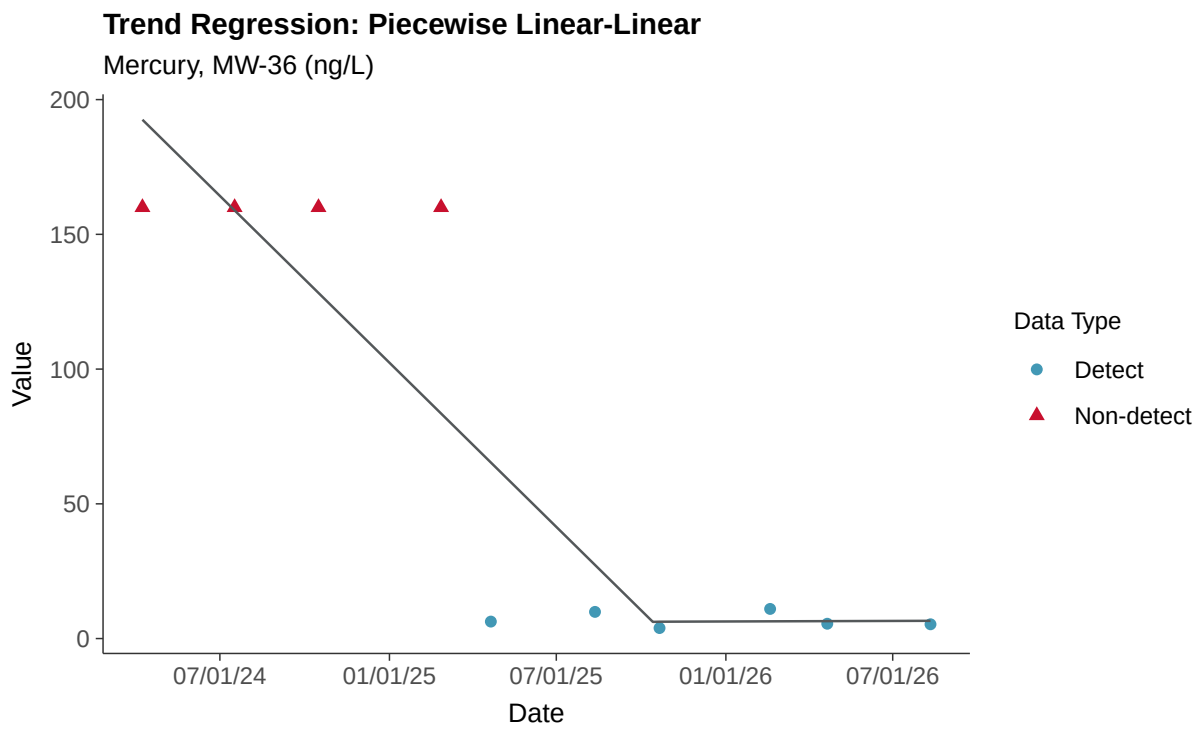
Mercury, MW-36 (ng/L)



Trend Regression: Lognormal MLE

Mercury, MW-36 (ng/L)



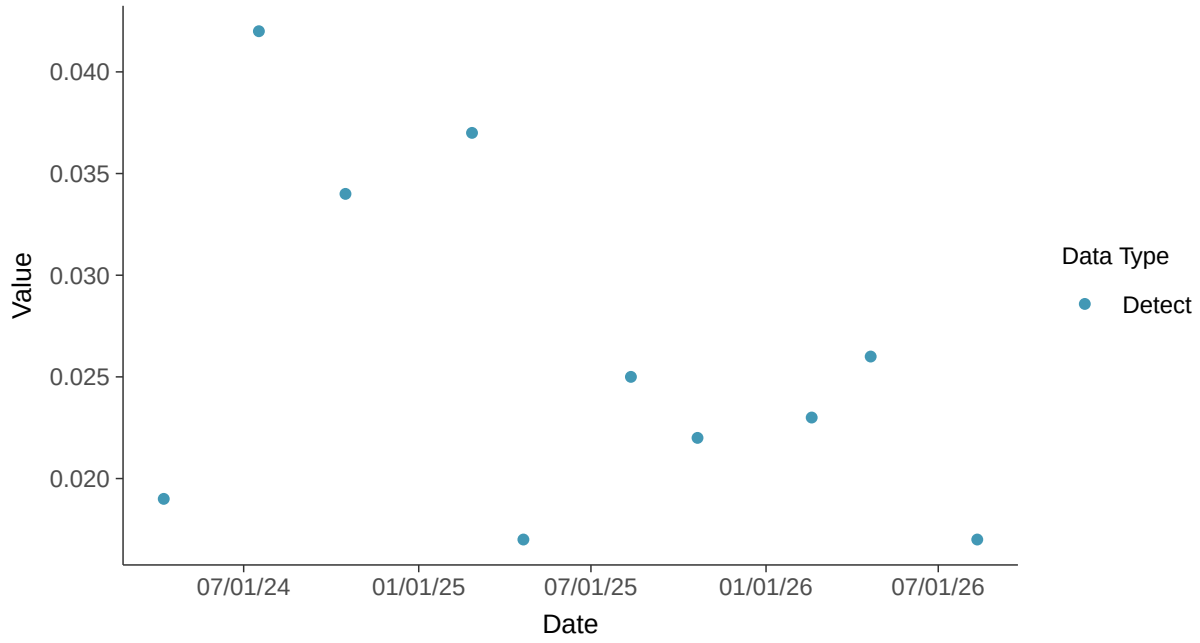

Trend Regression: Piecewise Linear-Linear
Mercury, MW-36 (ng/L)
200
150
100
50
0
Value
07/01/24
01/01/25
07/01/25
01/01/26
07/01/26
Date
Data Type
Detect
Non-detect

Appendix IV: Molybdenum, MW-36

ID: 46_1_4_118

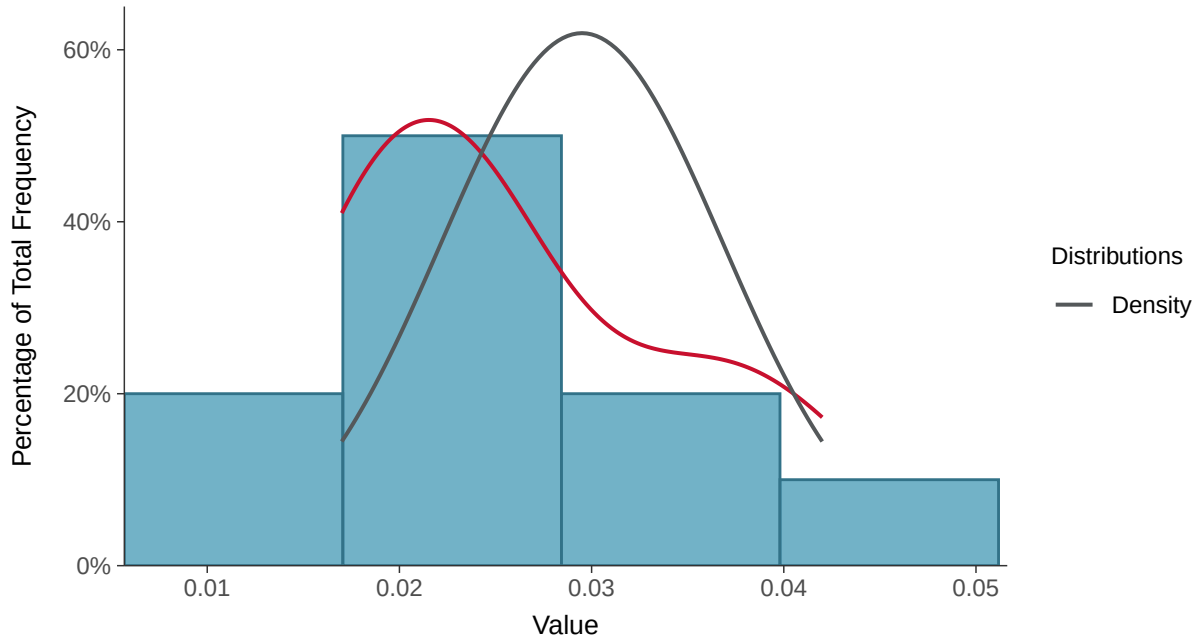
Scatter Plot

Molybdenum, MW-36 (mg/L)



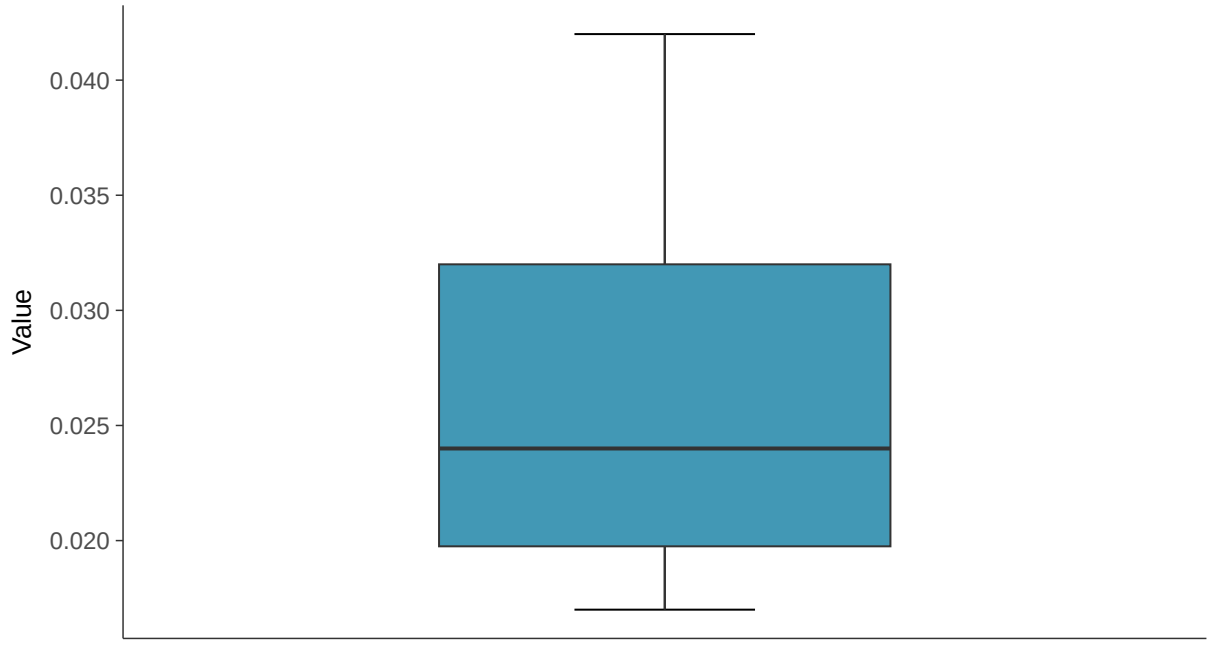
Histogram

Molybdenum, MW-36 (mg/L)



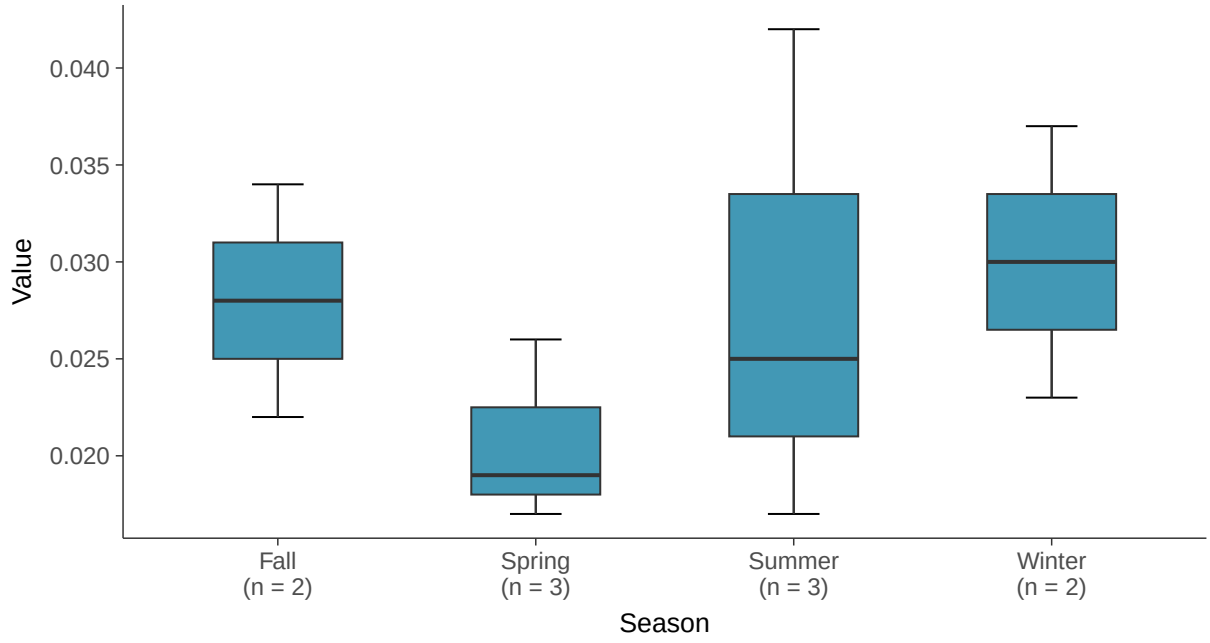
Boxplot

Molybdenum, MW-36 (mg/L)



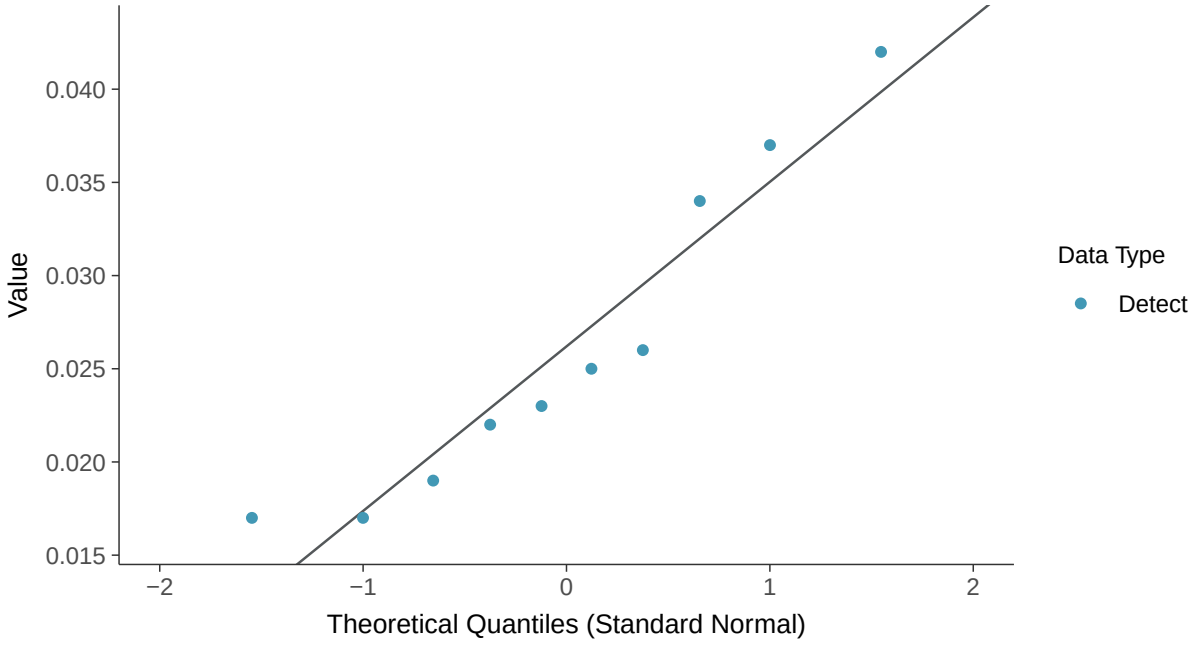
Boxplot by Season

Molybdenum, MW-36 (mg/L)



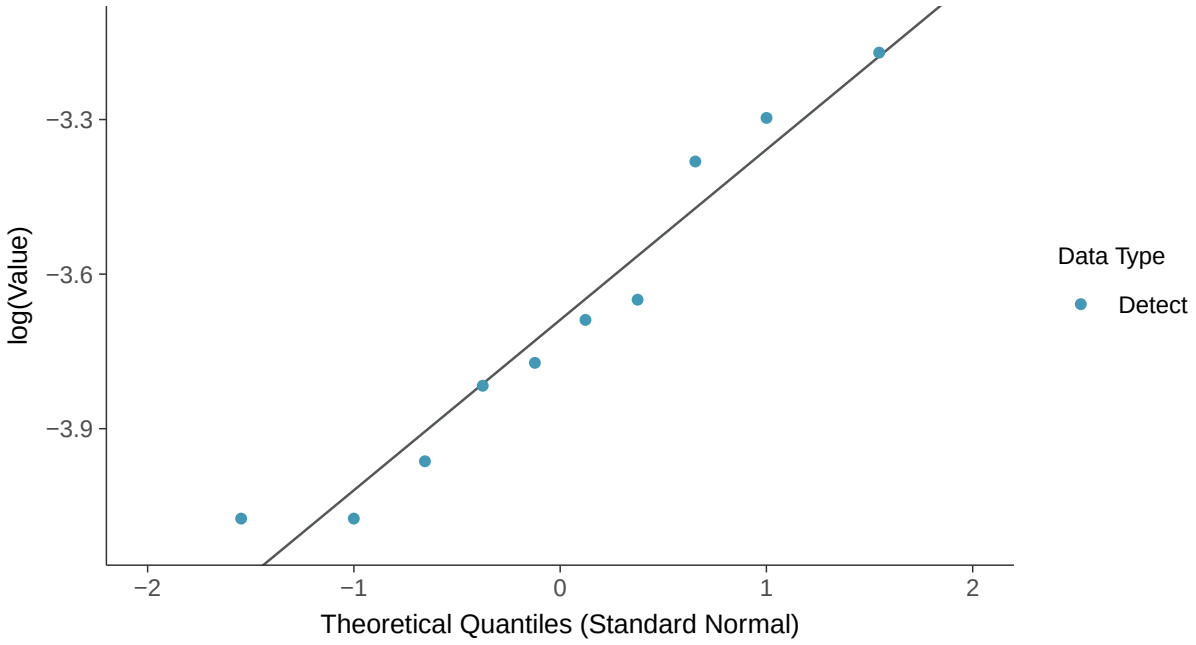
Normal Q-Q plot

Molybdenum, MW-36 (mg/L)



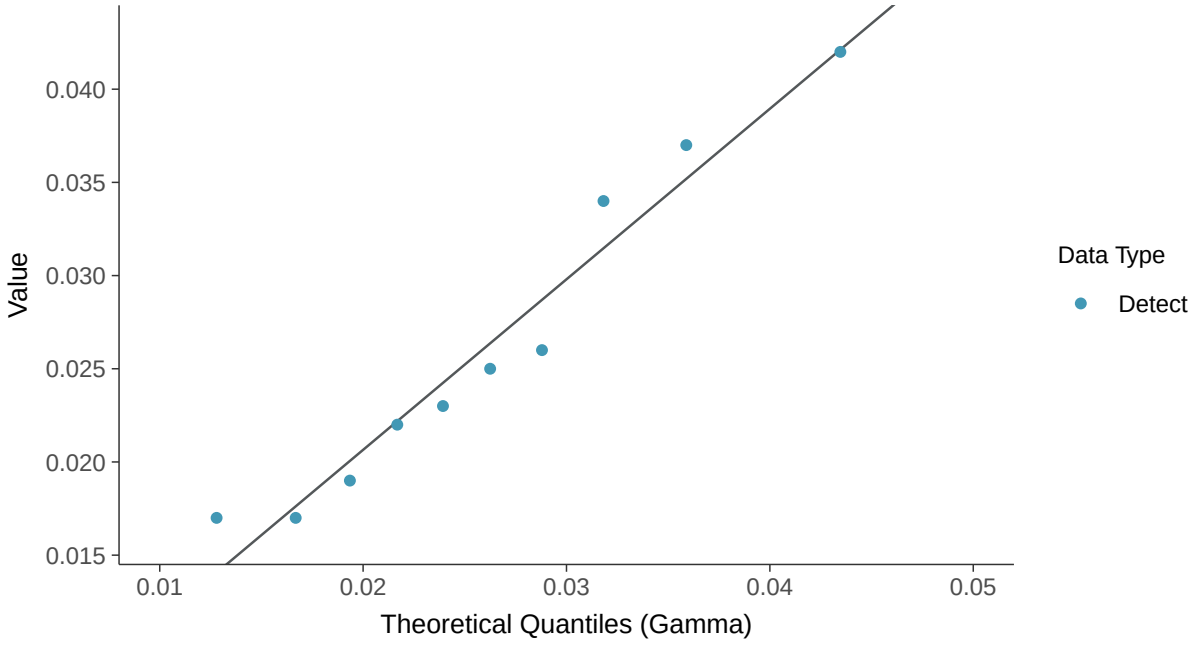
Lognormal Q-Q plot

Molybdenum, MW-36 (mg/L)



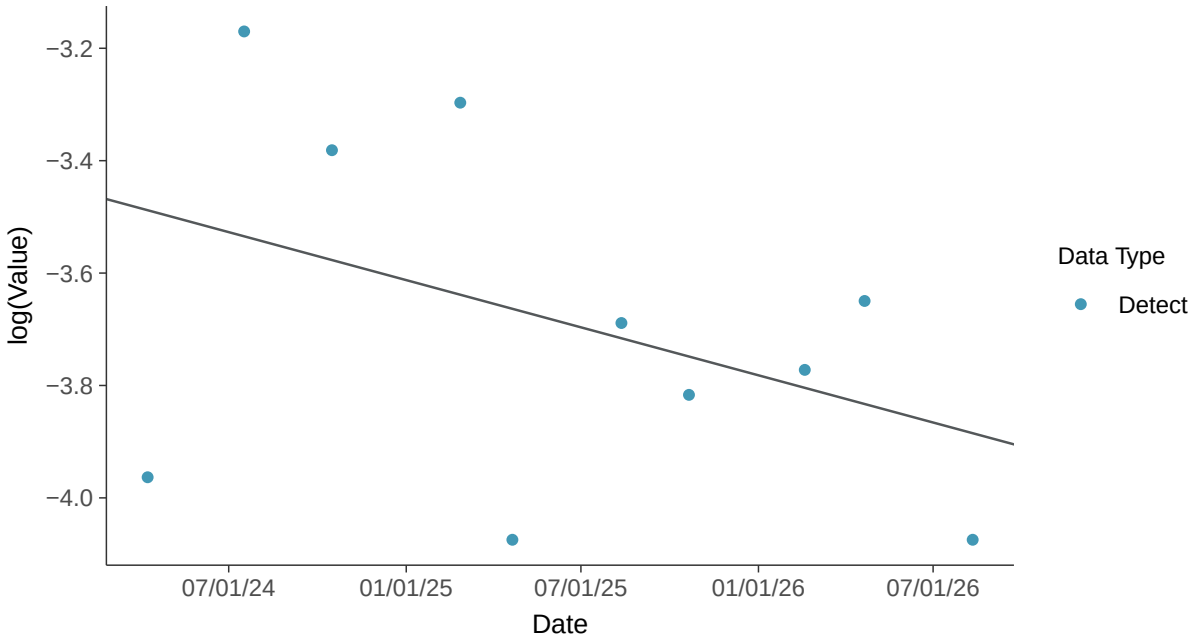
Gamma Q-Q plot

Molybdenum, MW-36 (mg/L)



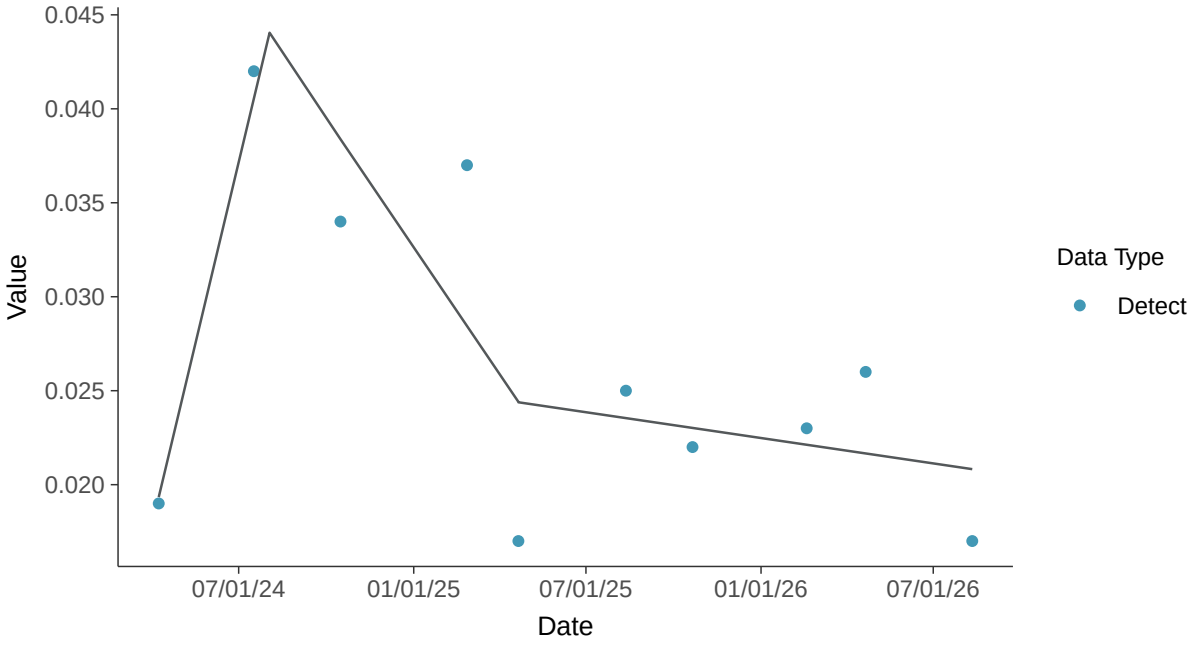
Trend Regression: Lognormal MLE

Molybdenum, MW-36 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Molybdenum, MW-36 (mg/L)

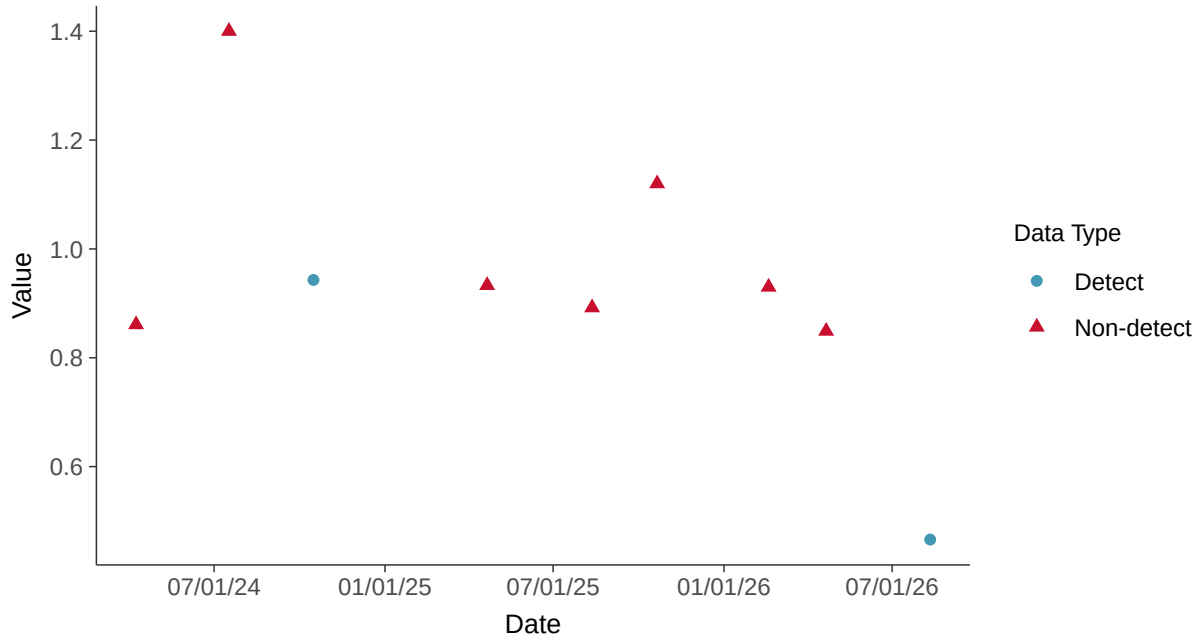


Appendix IV: Radium 226 and 228, MW-36

ID: 46_1_4_121

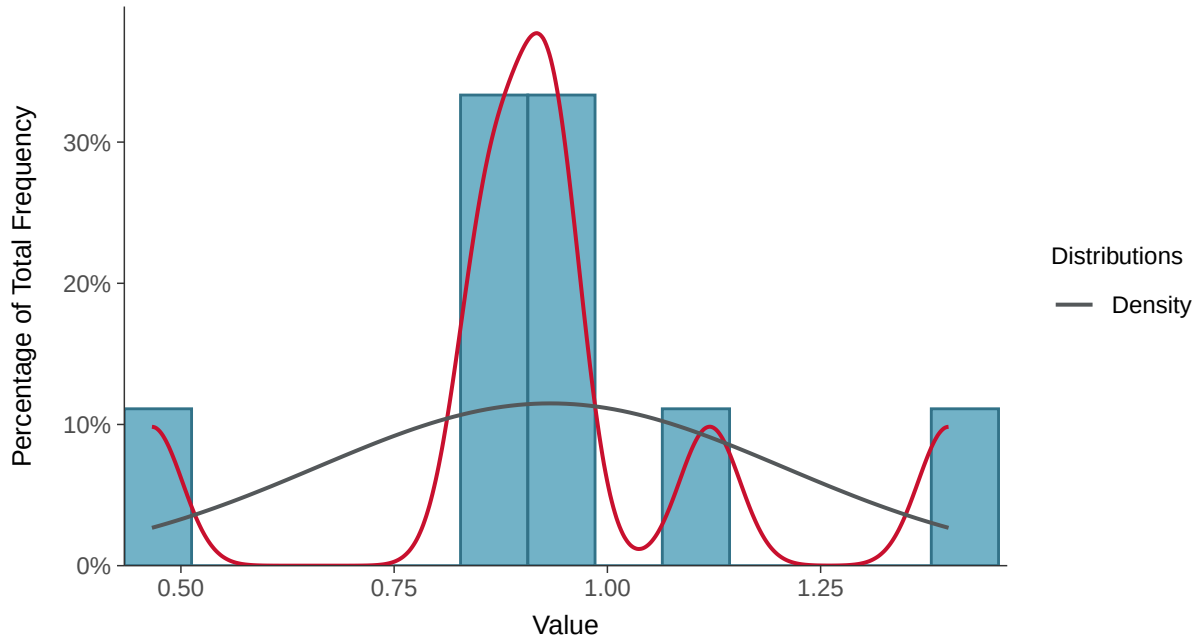
Scatter Plot

Radium 226 and 228, MW-36 (pCi/L)



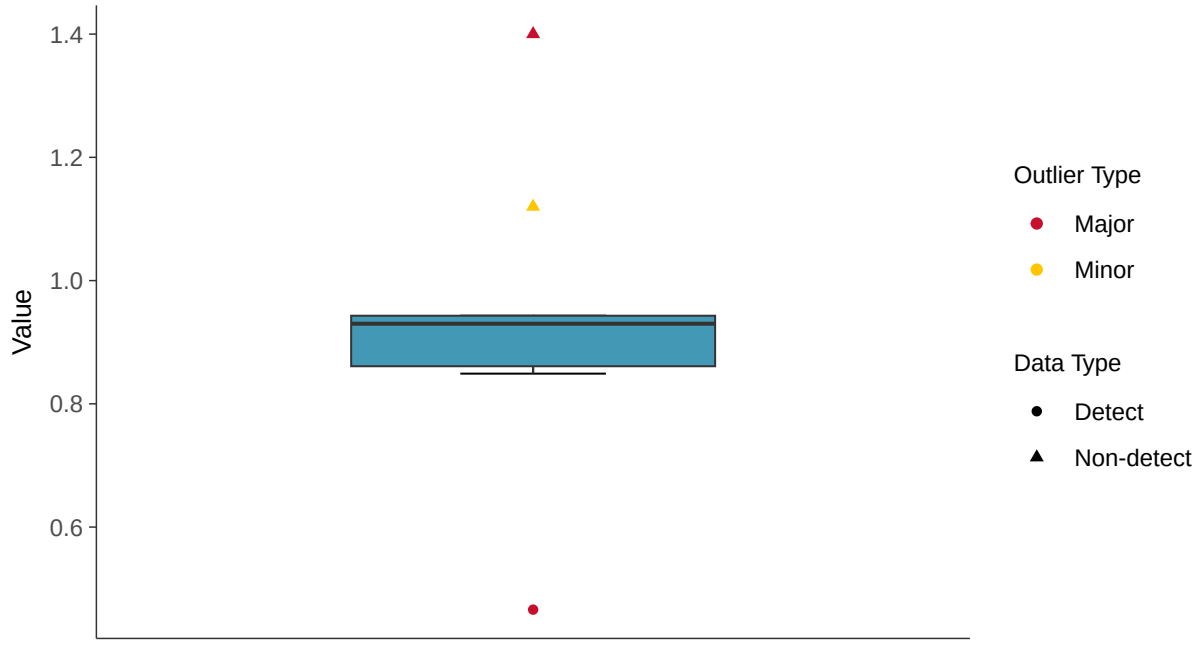
Histogram

Radium 226 and 228, MW-36 (pCi/L)



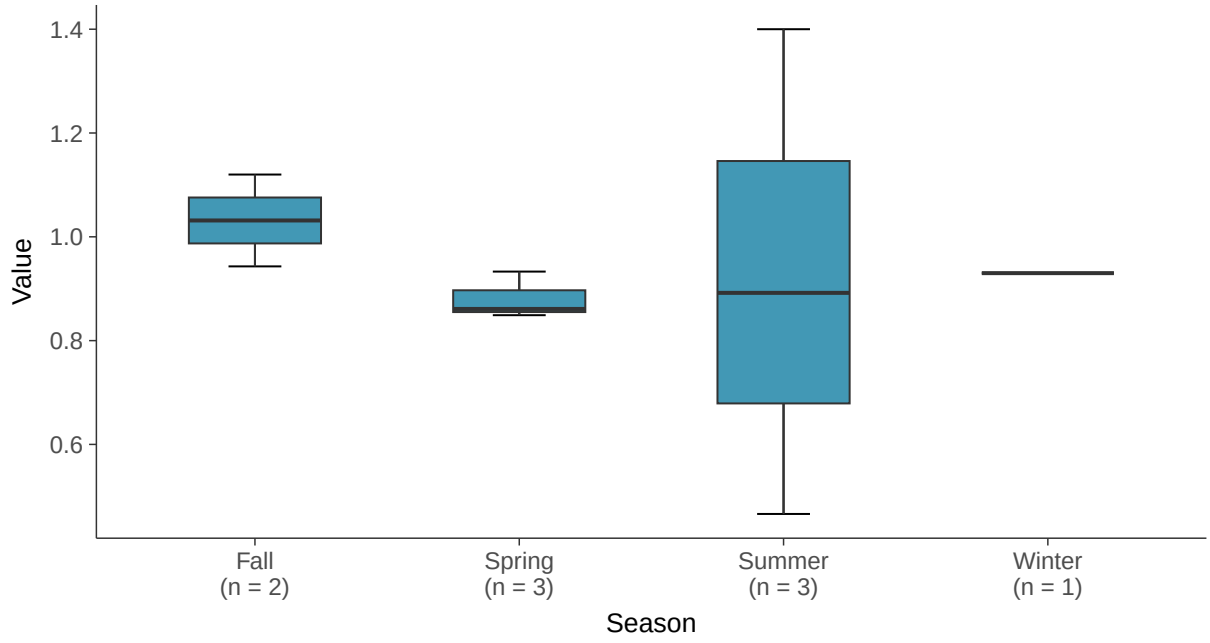
Boxplot

Radium 226 and 228, MW-36 (pCi/L)



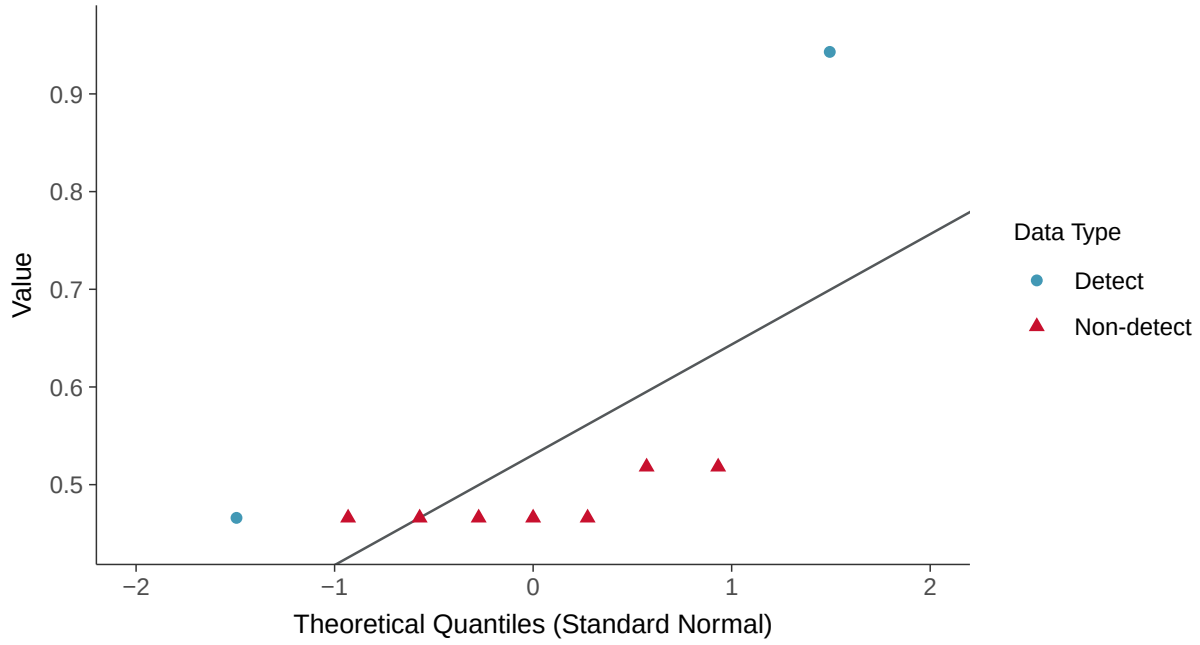
Boxplot by Season

Radium 226 and 228, MW-36 (pCi/L)



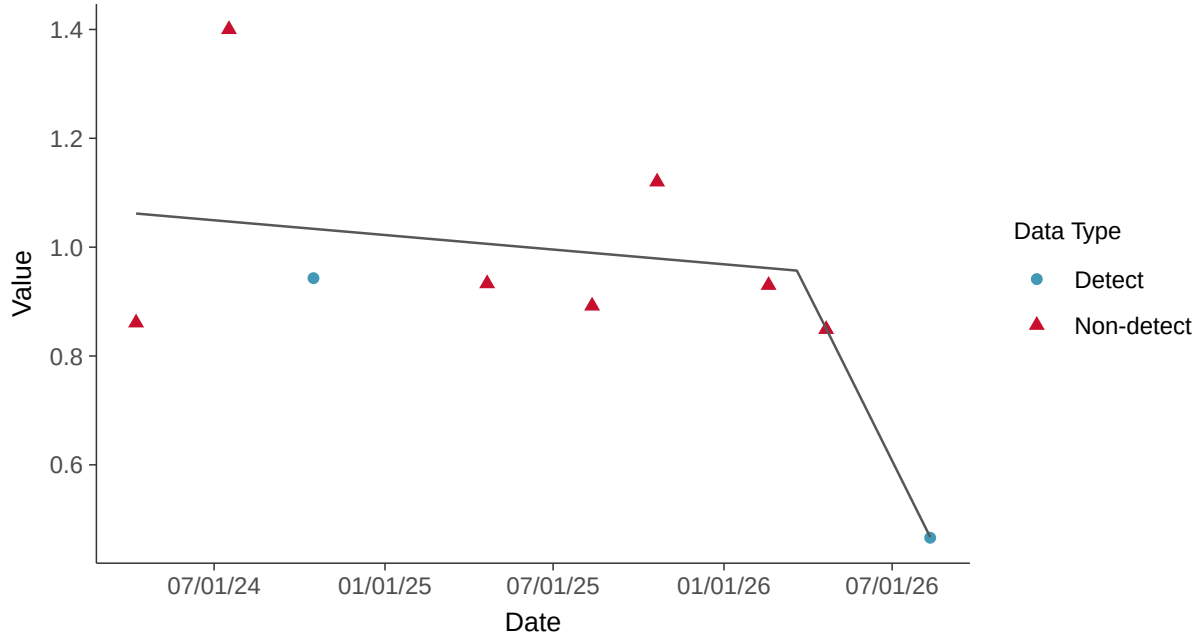
Normal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-36 (pCi/L)



Trend Regression: Piecewise Linear-Linear

Radium 226 and 228, MW-36 (pCi/L)

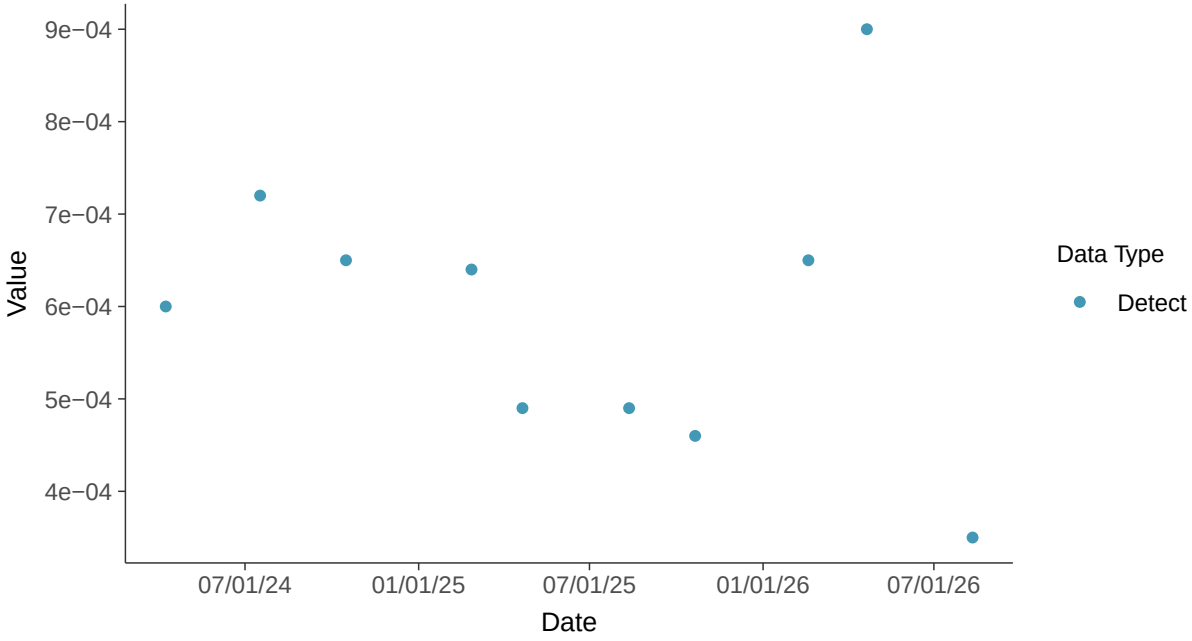


Appendix IV: Selenium, MW-36

ID: 46_1_4_122

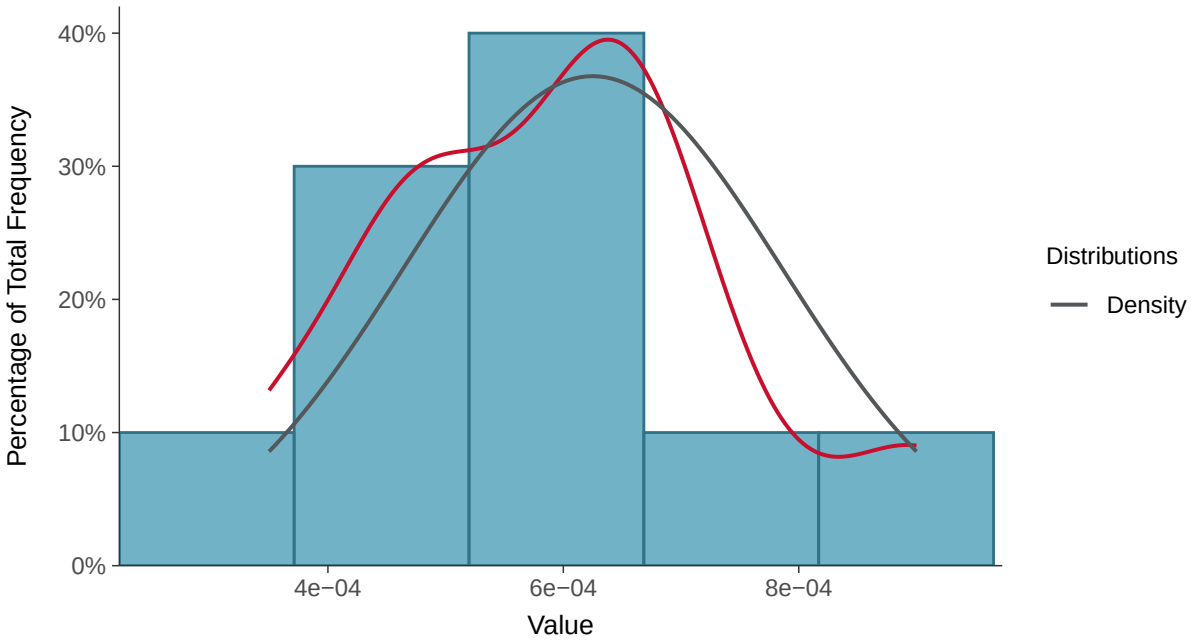
Scatter Plot

Selenium, MW-36 (mg/L)



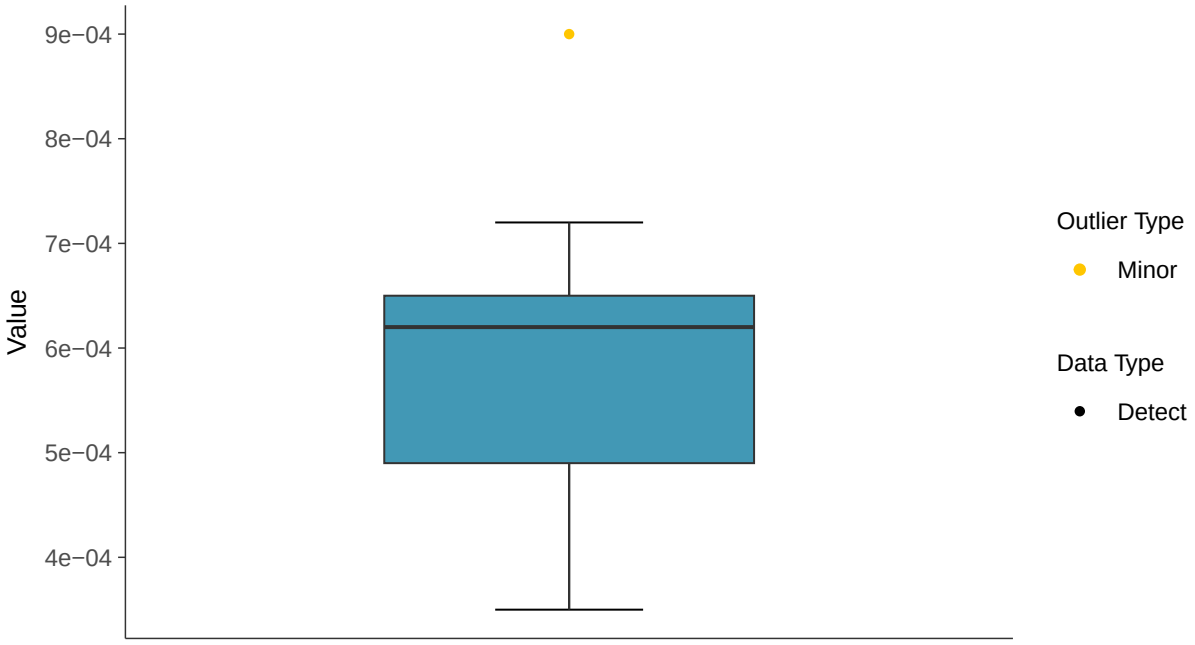
Histogram

Selenium, MW-36 (mg/L)



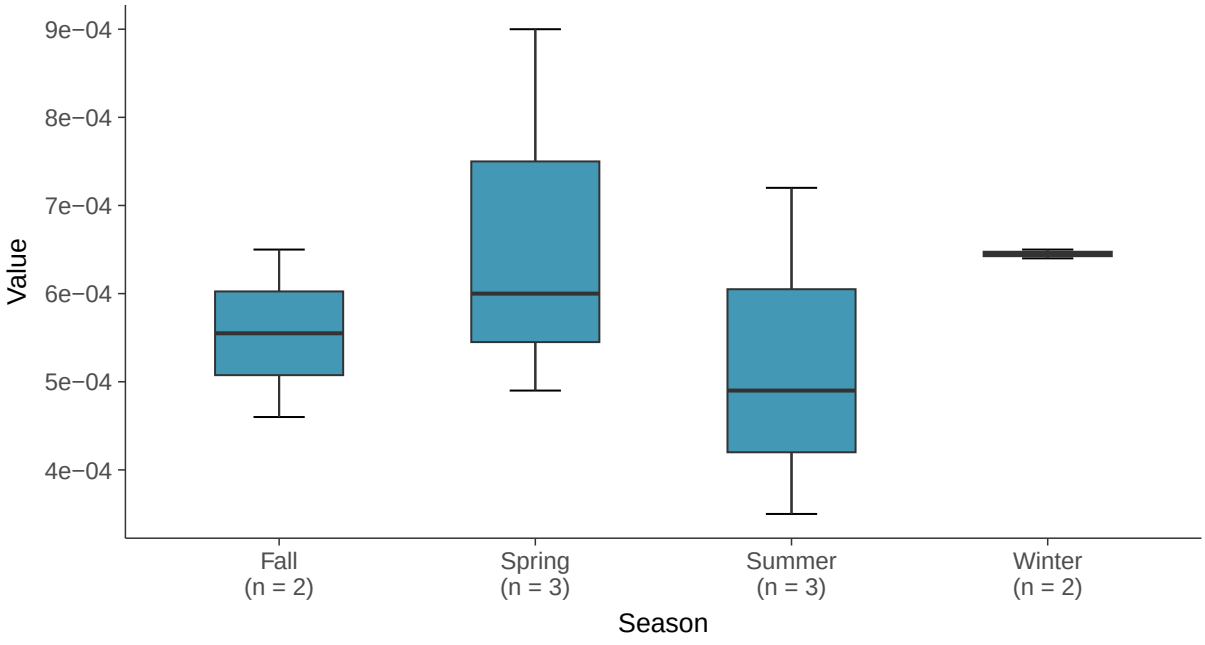
Boxplot

Selenium, MW-36 (mg/L)



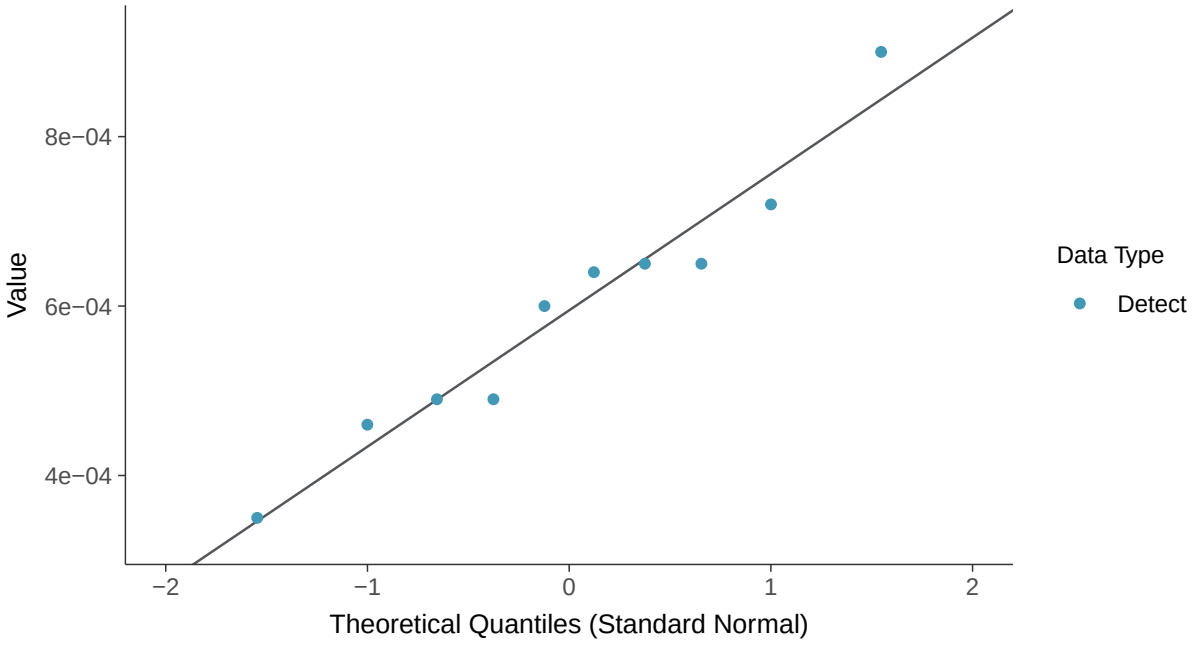
Boxplot by Season

Selenium, MW-36 (mg/L)



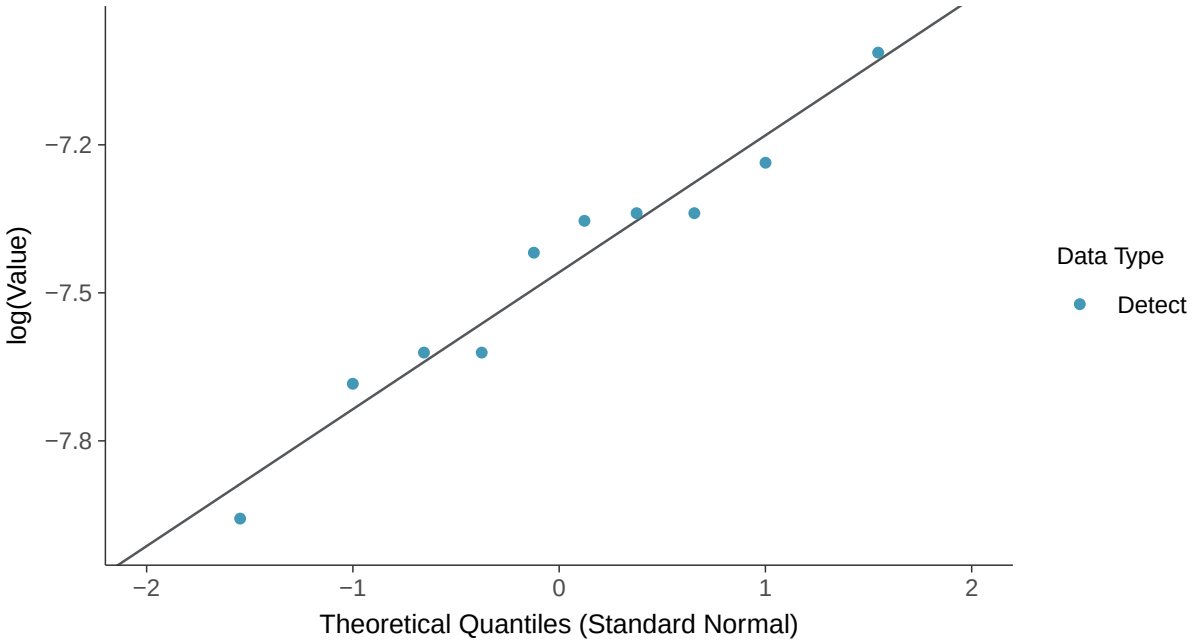
Normal Q-Q plot

Selenium, MW-36 (mg/L)



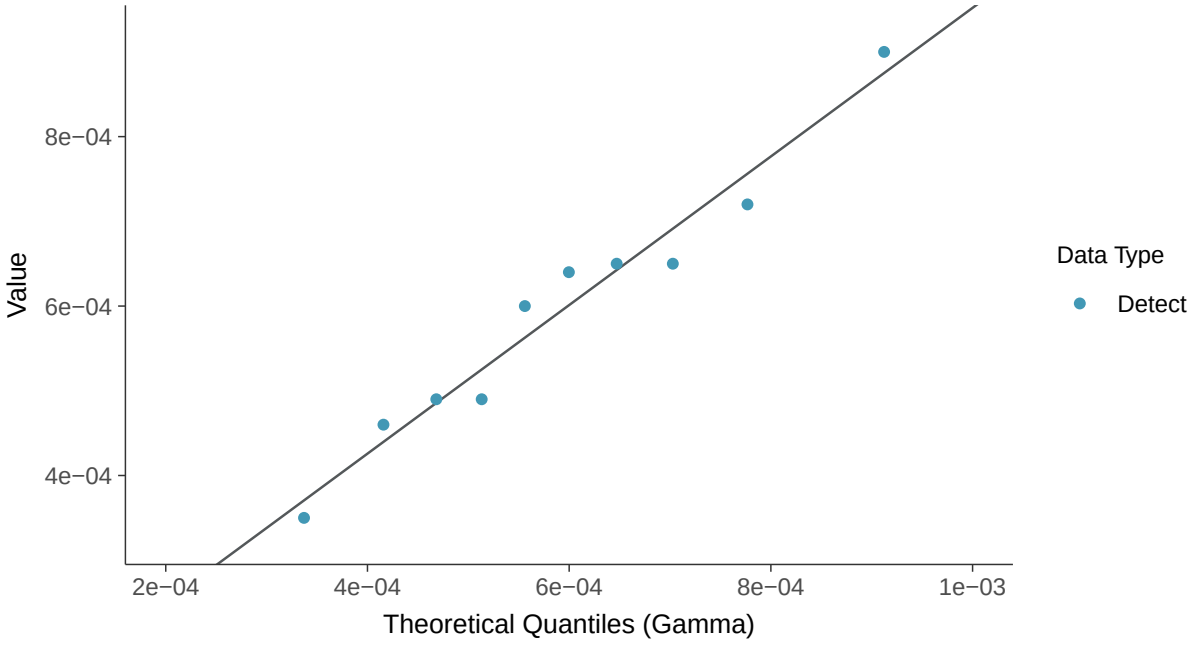
Lognormal Q-Q plot

Selenium, MW-36 (mg/L)



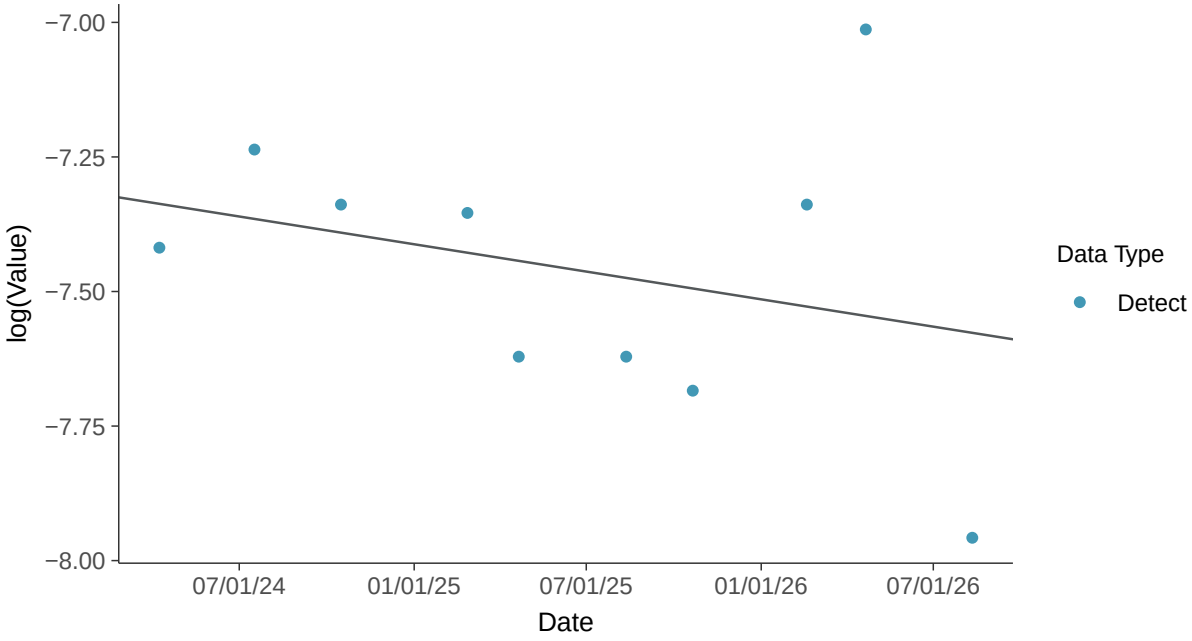
Gamma Q-Q plot

Selenium, MW-36 (mg/L)



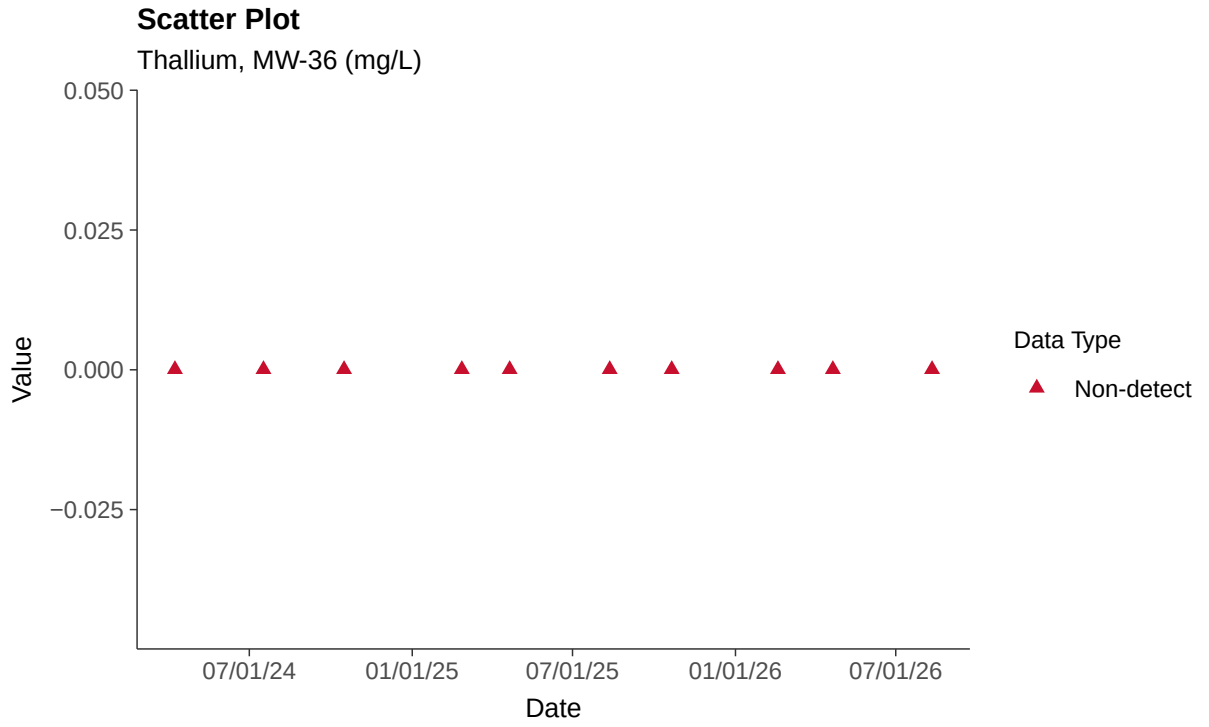
Trend Regression: Lognormal MLE

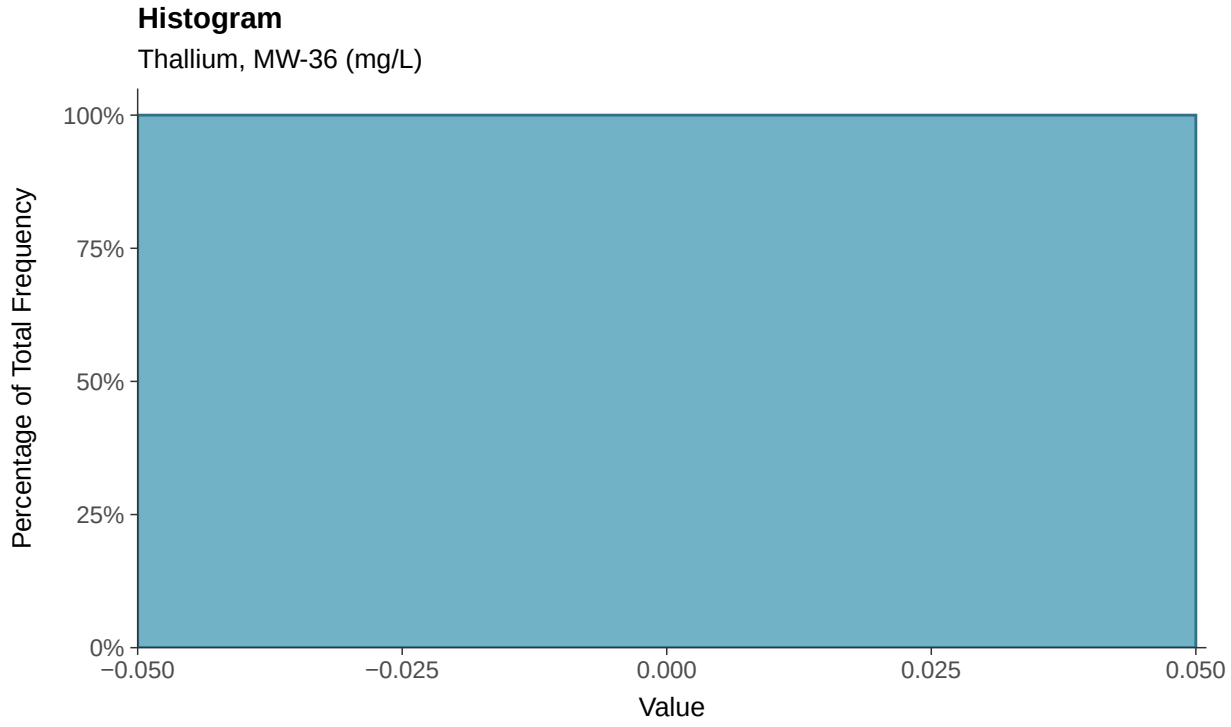
Selenium, MW-36 (mg/L)



Appendix IV: Thallium, MW-36

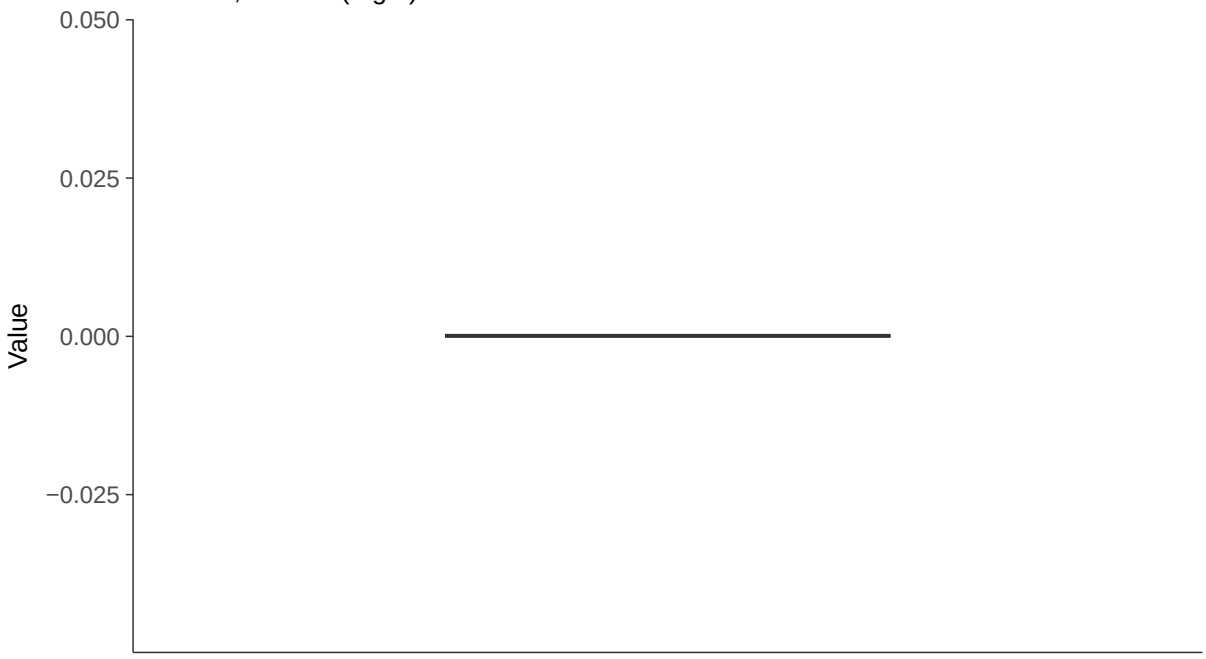
ID: 46_1_4_125





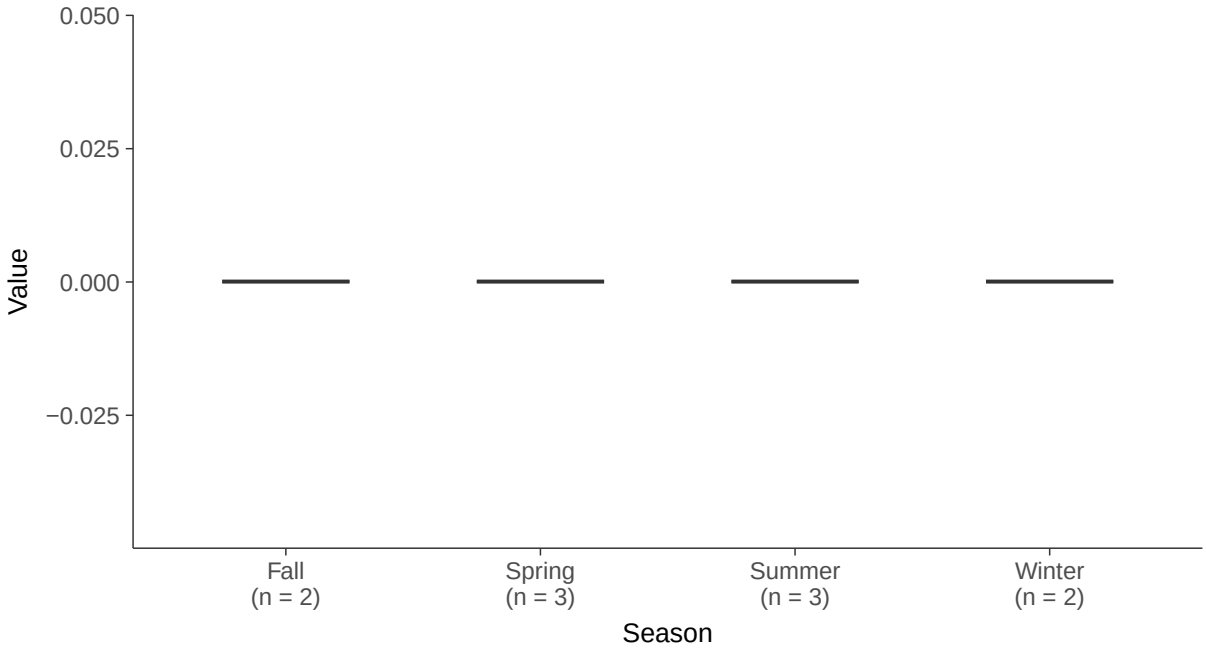
Boxplot

Thallium, MW-36 (mg/L)



Boxplot by Season

Thallium, MW-36 (mg/L)

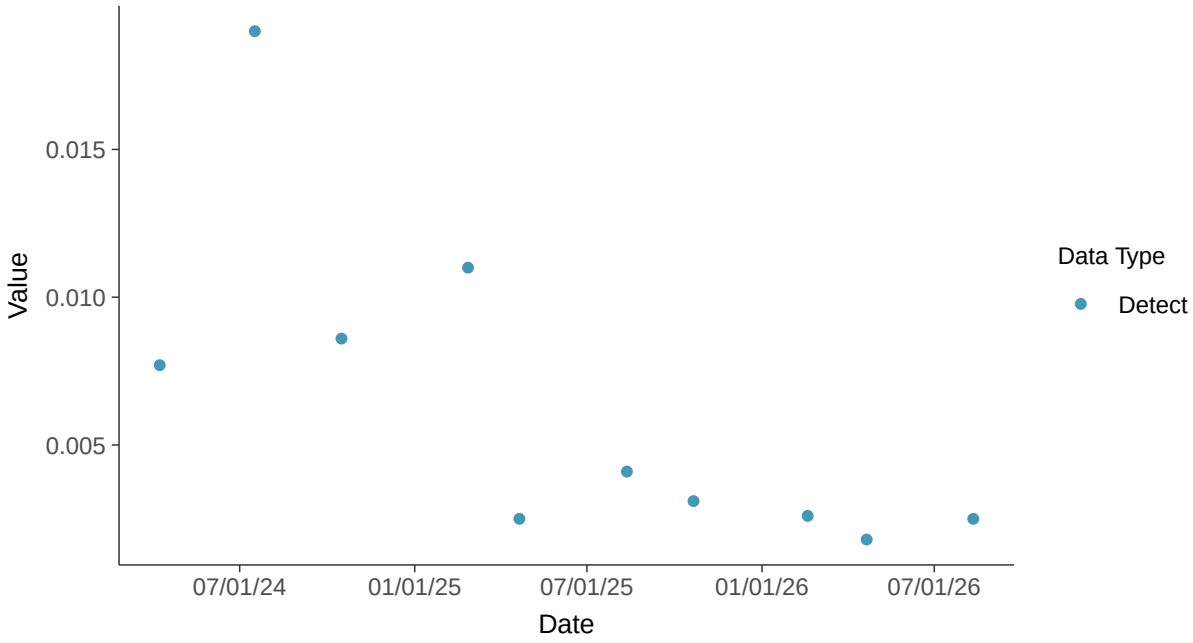


Part 115: Copper, MW-36

ID: 46_1_5_111

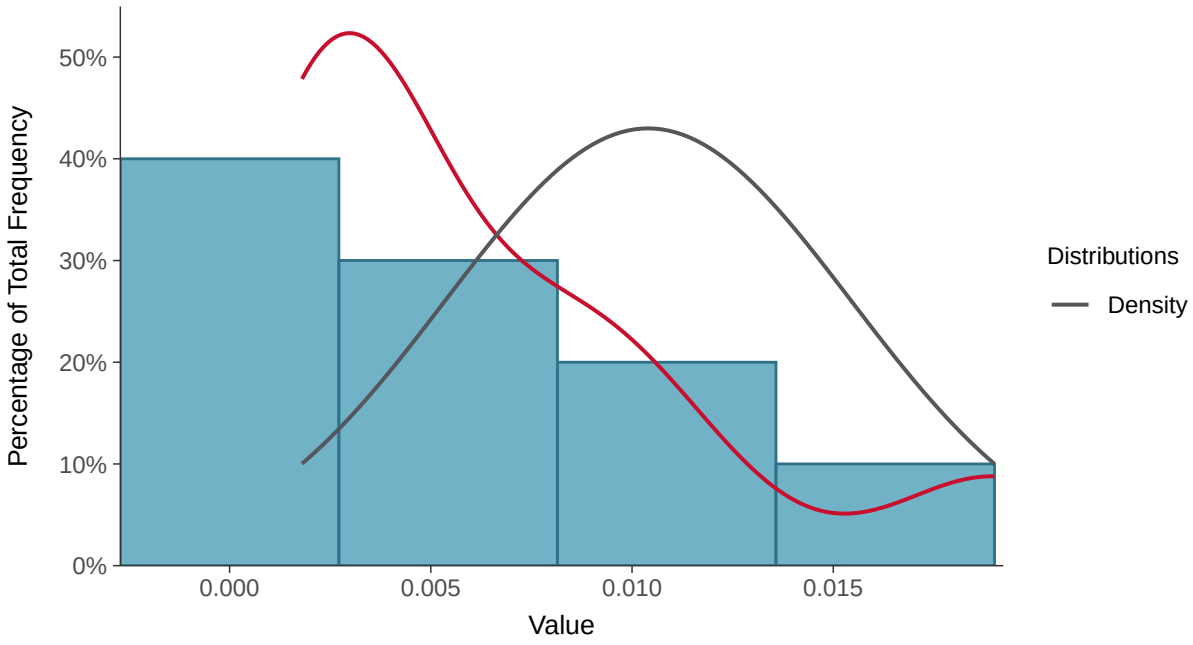
Scatter Plot

Copper, MW-36 (mg/L)



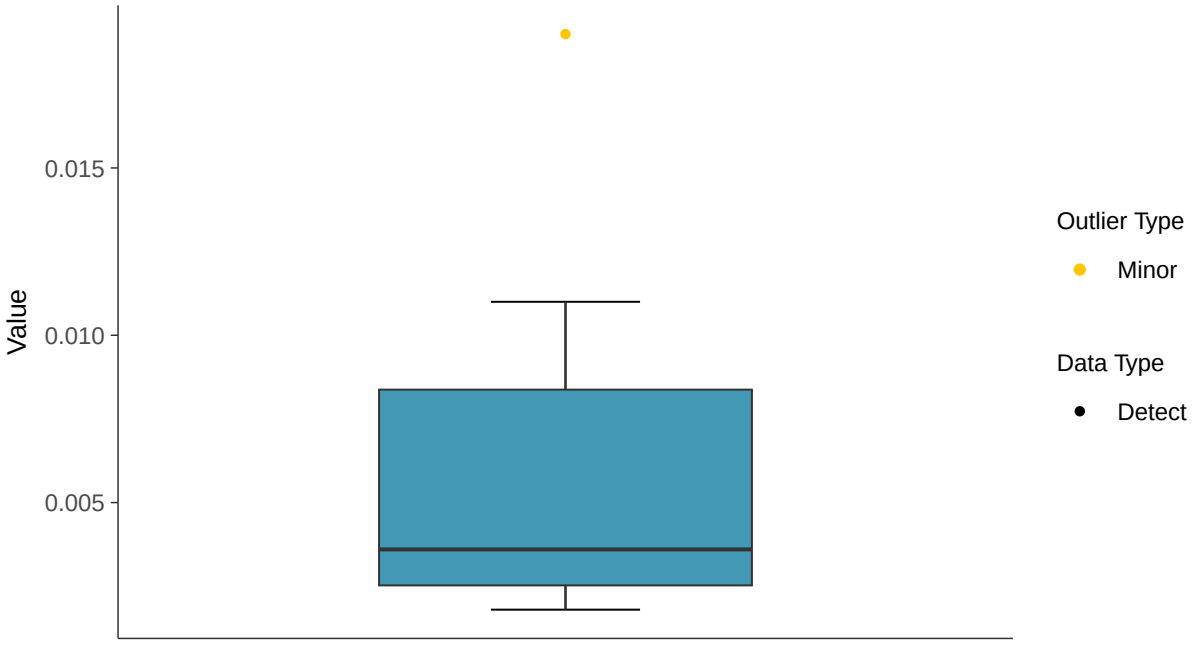
Histogram

Copper, MW-36 (mg/L)



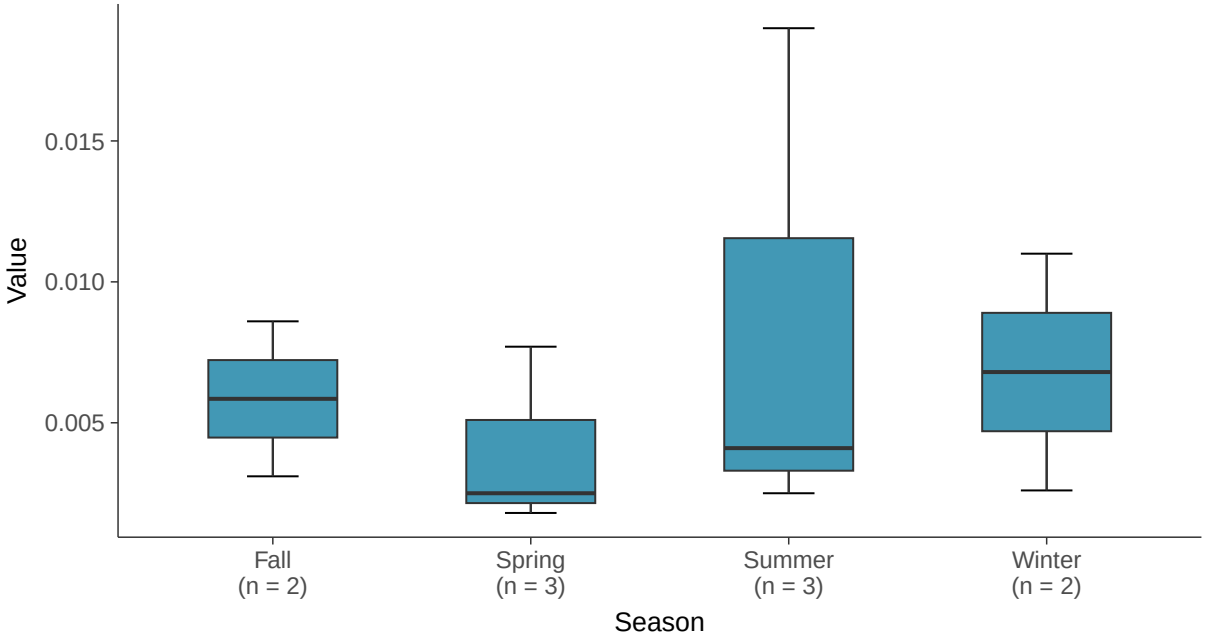
Boxplot

Copper, MW-36 (mg/L)



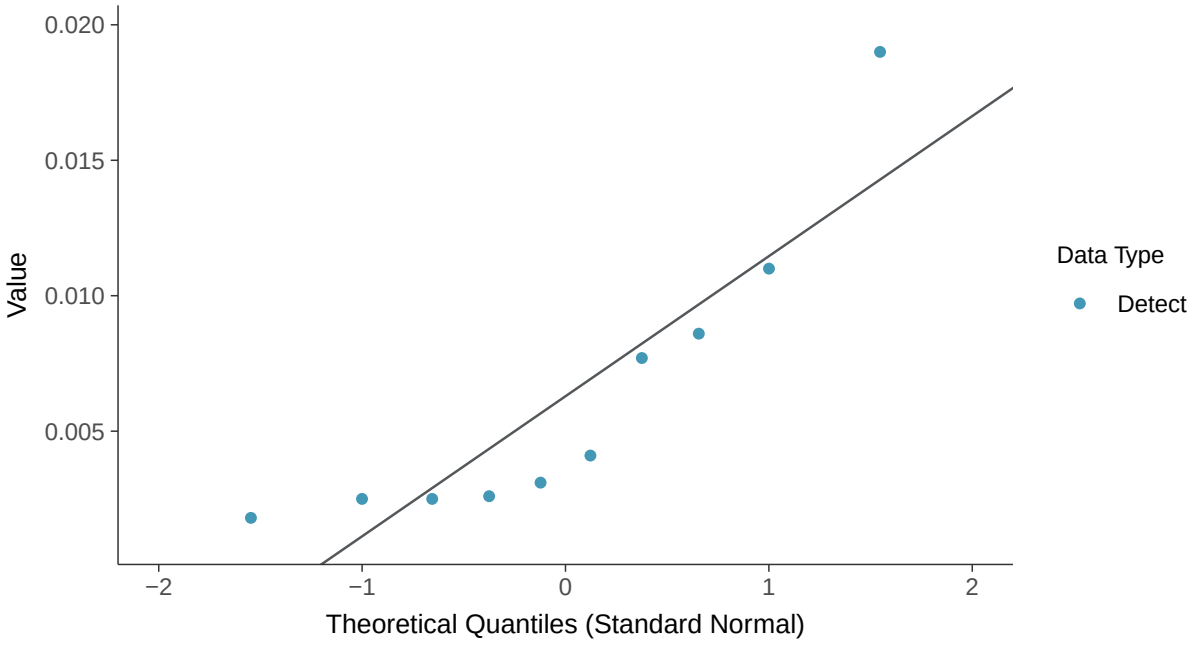
Boxplot by Season

Copper, MW-36 (mg/L)



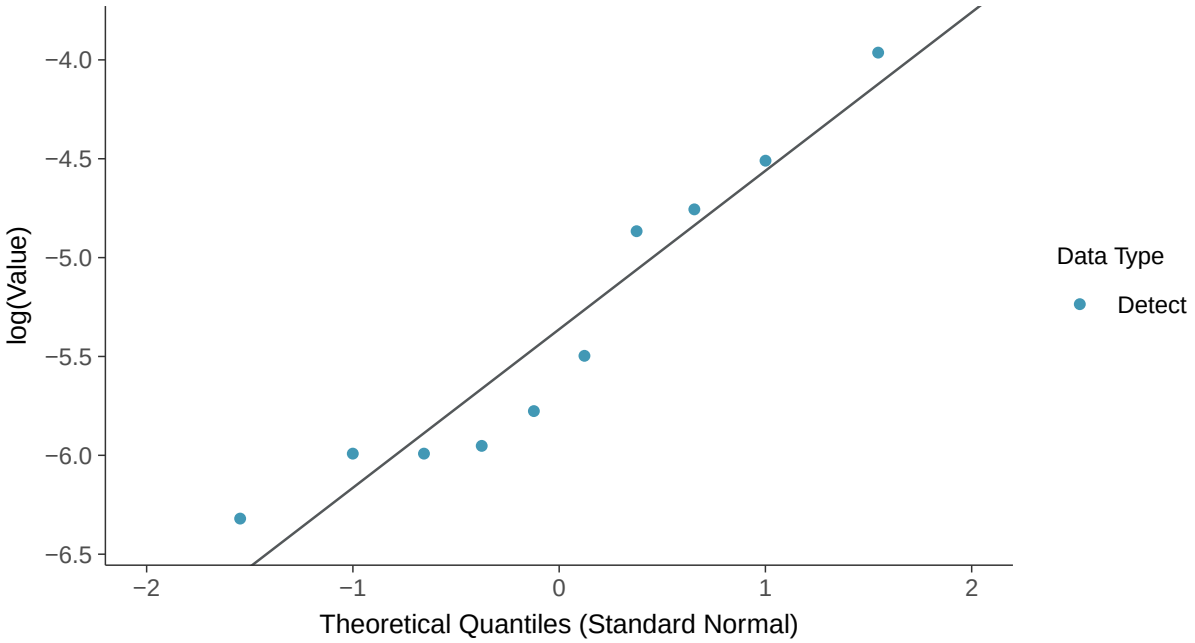
Normal Q-Q plot

Copper, MW-36 (mg/L)



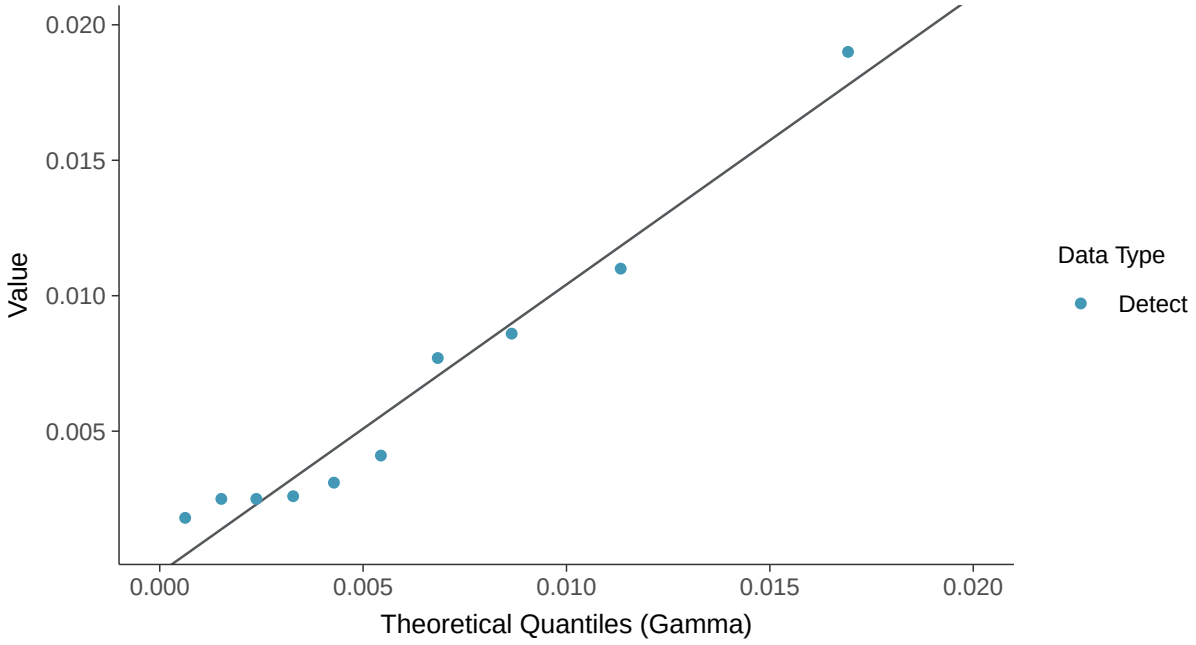
Lognormal Q-Q plot

Copper, MW-36 (mg/L)



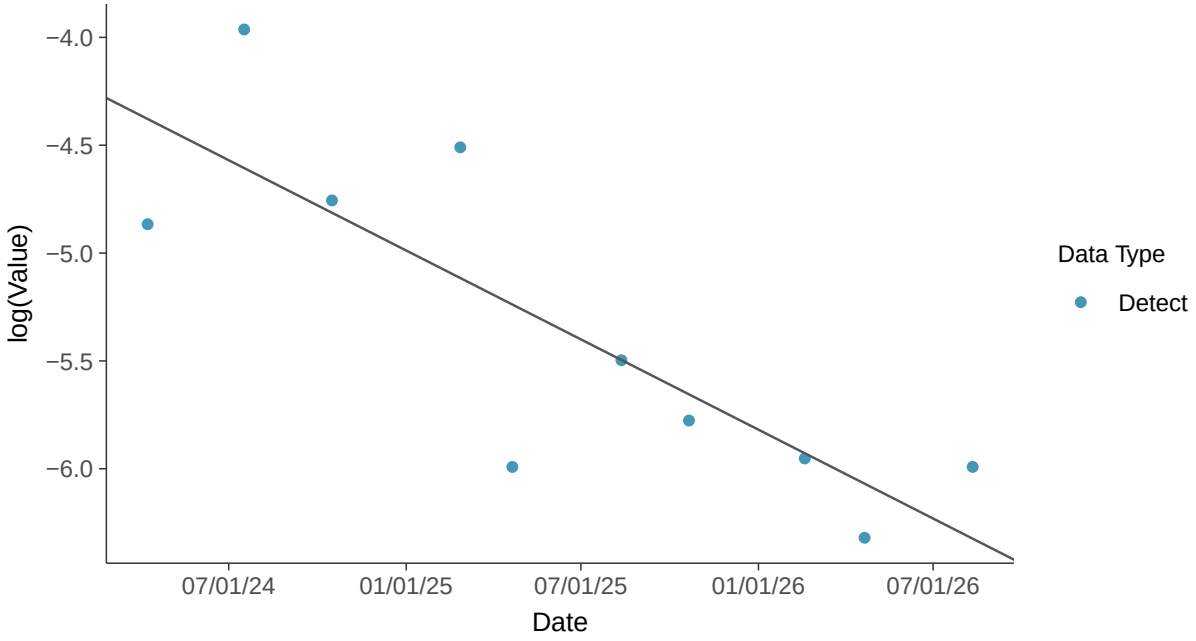
Gamma Q-Q plot

Copper, MW-36 (mg/L)



Trend Regression: Lognormal MLE

Copper, MW-36 (mg/L)

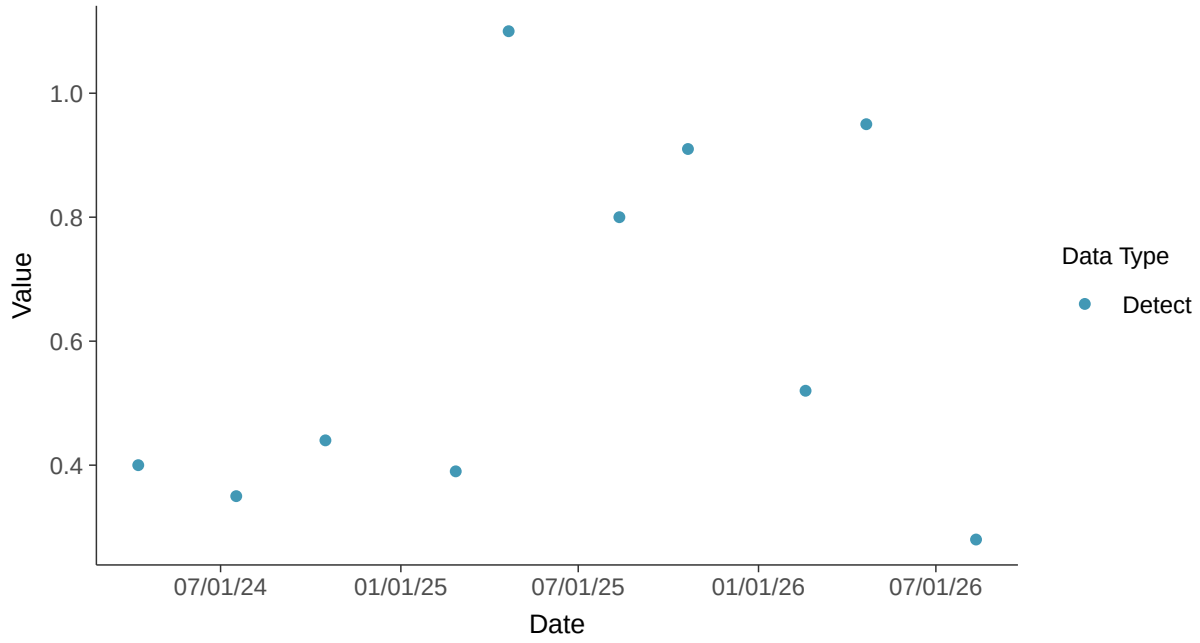


Part 115: Iron, MW-36

ID: 46_1_5_114

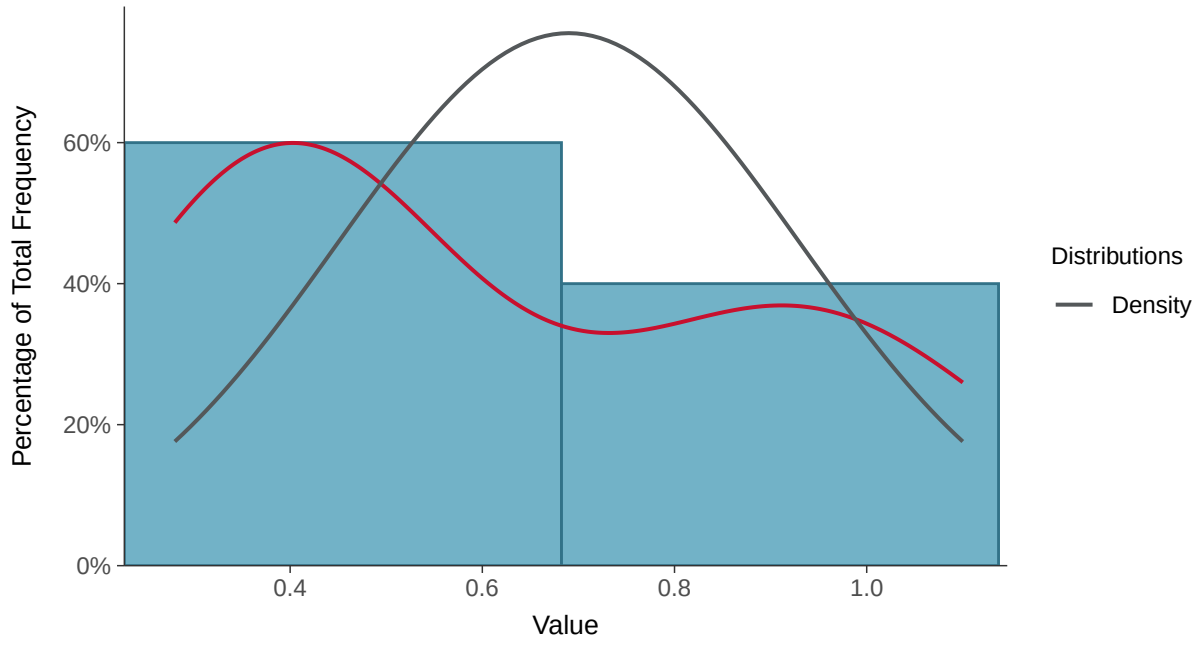
Scatter Plot

Iron, MW-36 (mg/L)



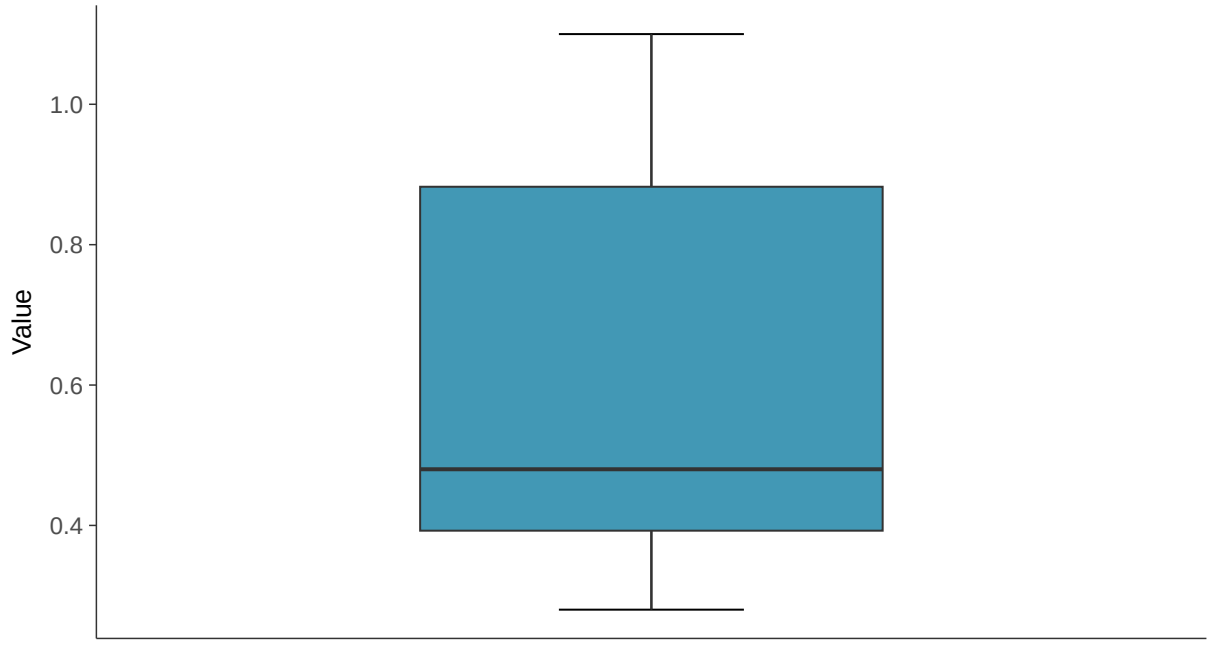
Histogram

Iron, MW-36 (mg/L)



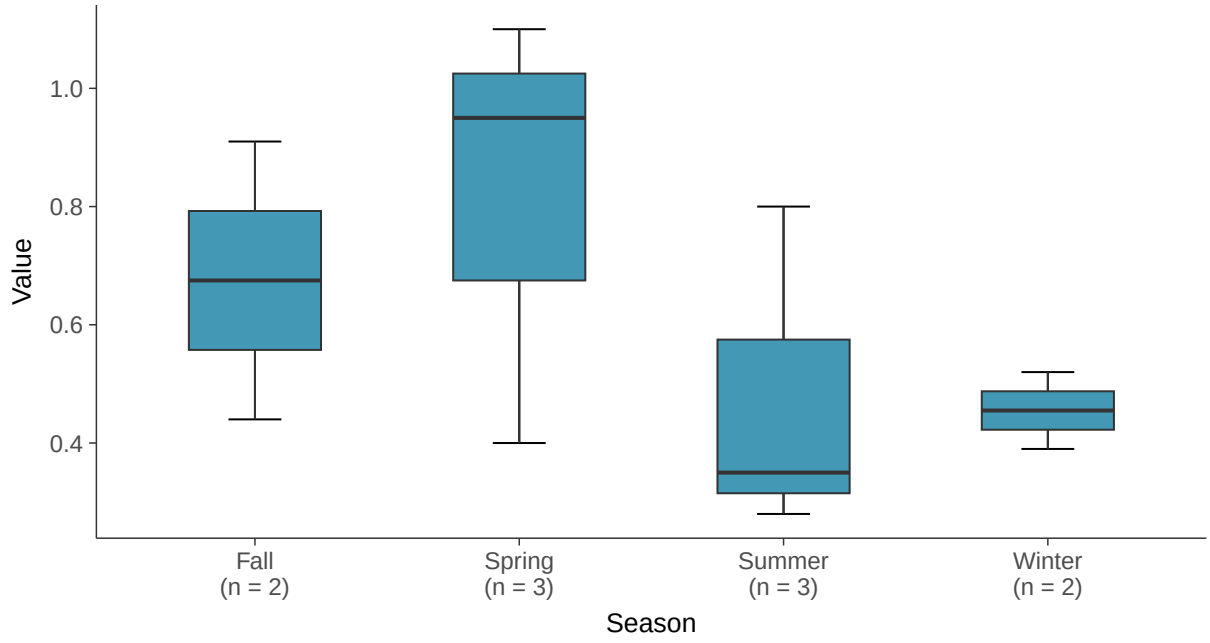
Boxplot

Iron, MW-36 (mg/L)



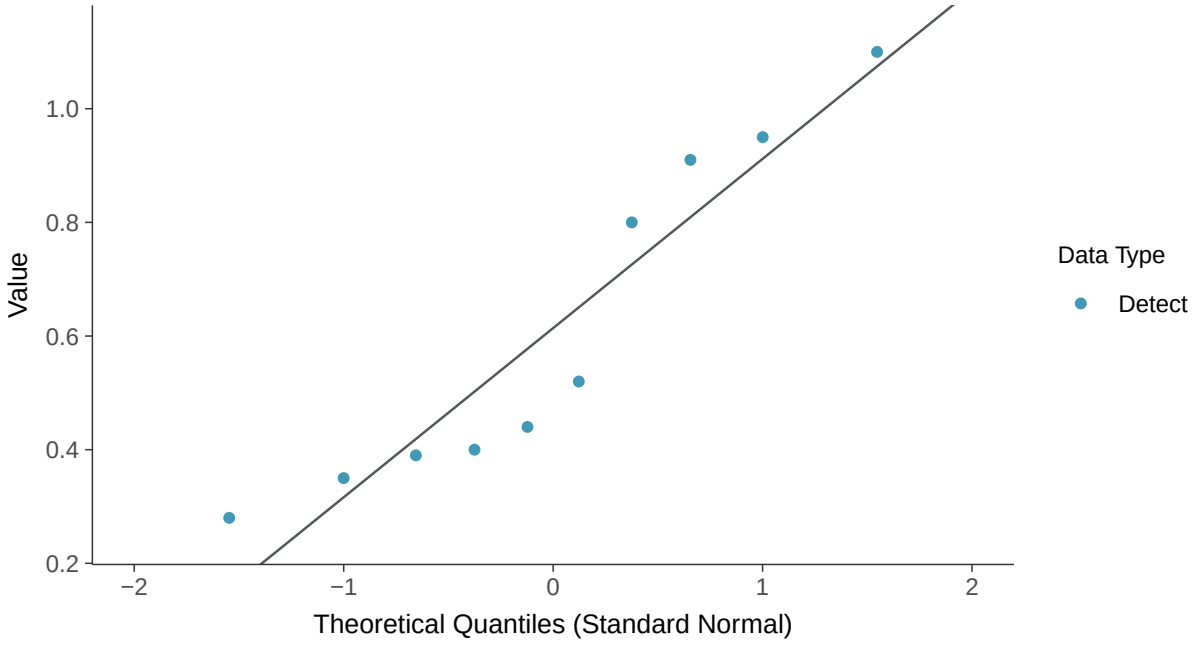
Boxplot by Season

Iron, MW-36 (mg/L)



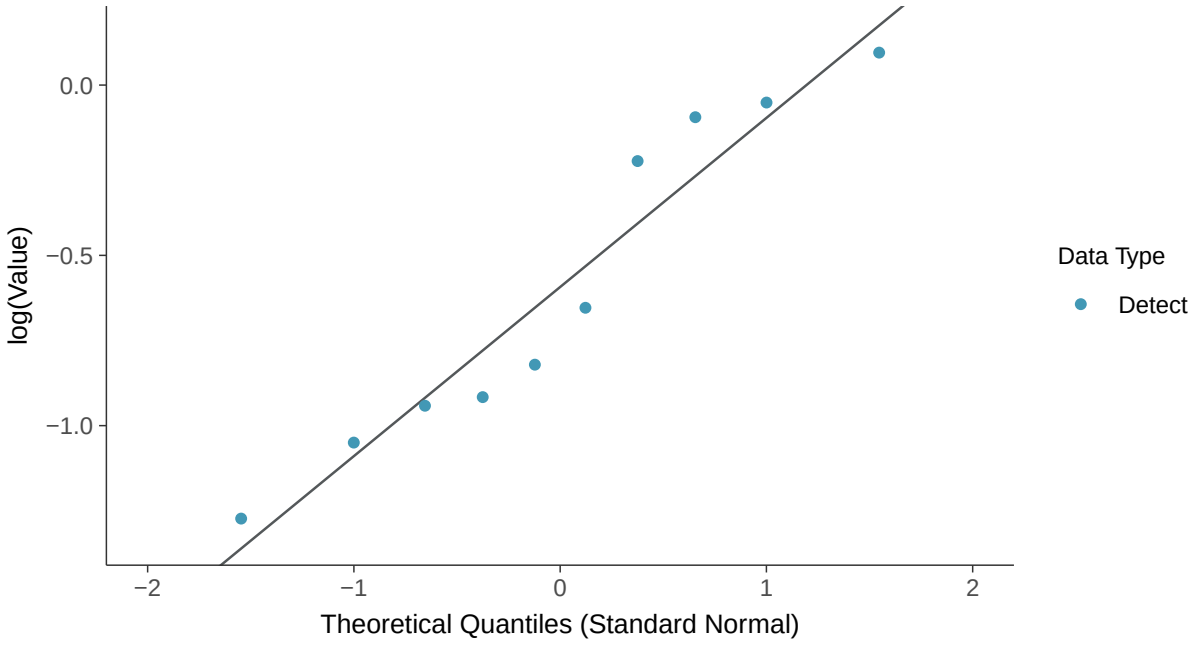
Normal Q-Q plot

Iron, MW-36 (mg/L)



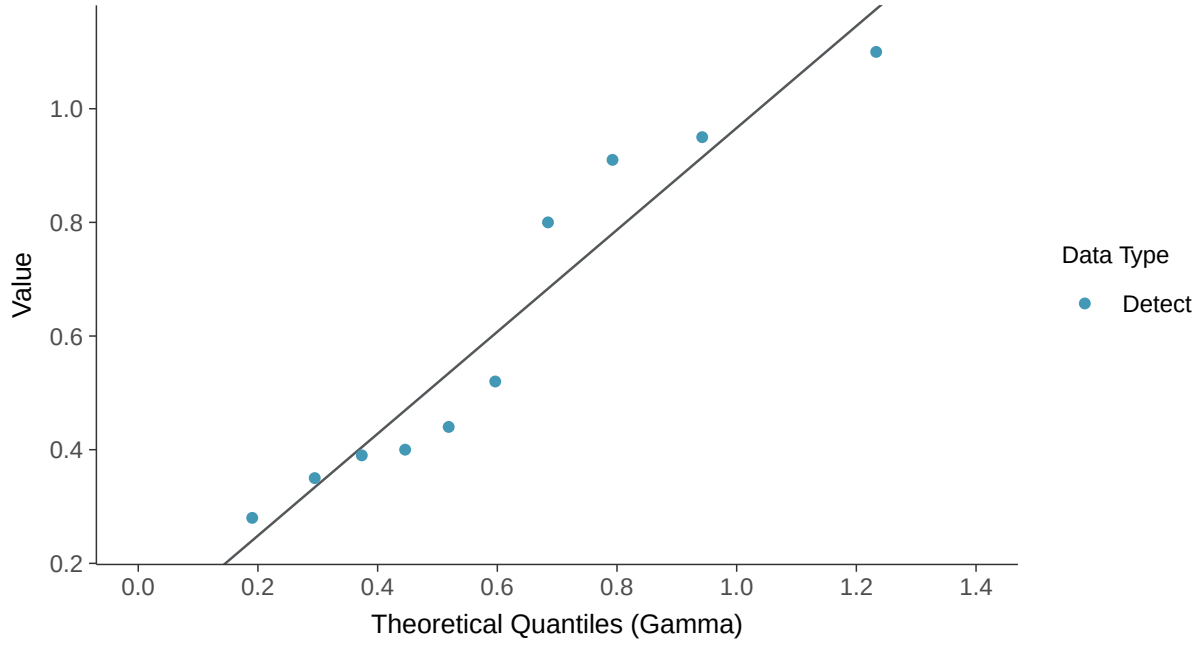
Lognormal Q-Q plot

Iron, MW-36 (mg/L)



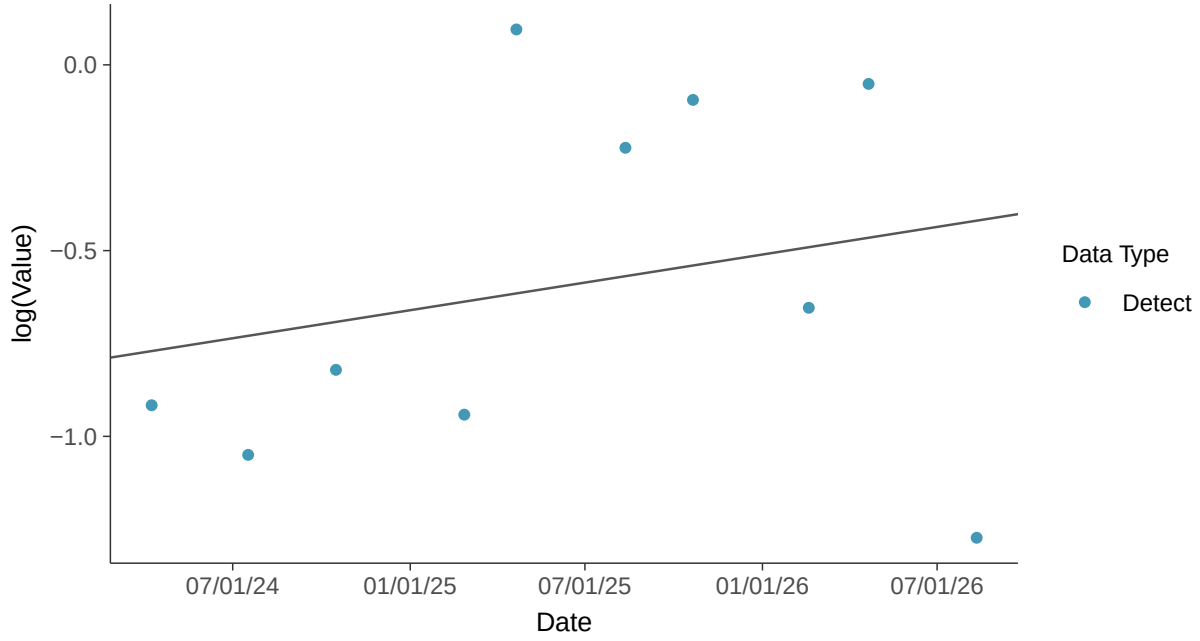
Gamma Q-Q plot

Iron, MW-36 (mg/L)



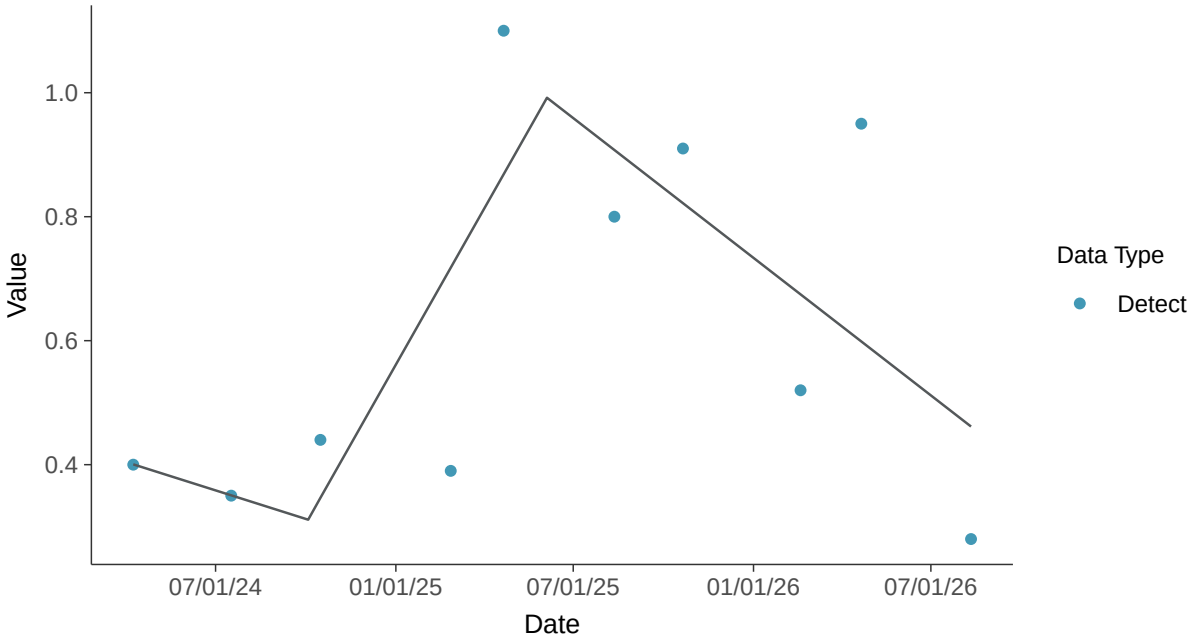
Trend Regression: Lognormal MLE

Iron, MW-36 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Iron, MW-36 (mg/L)

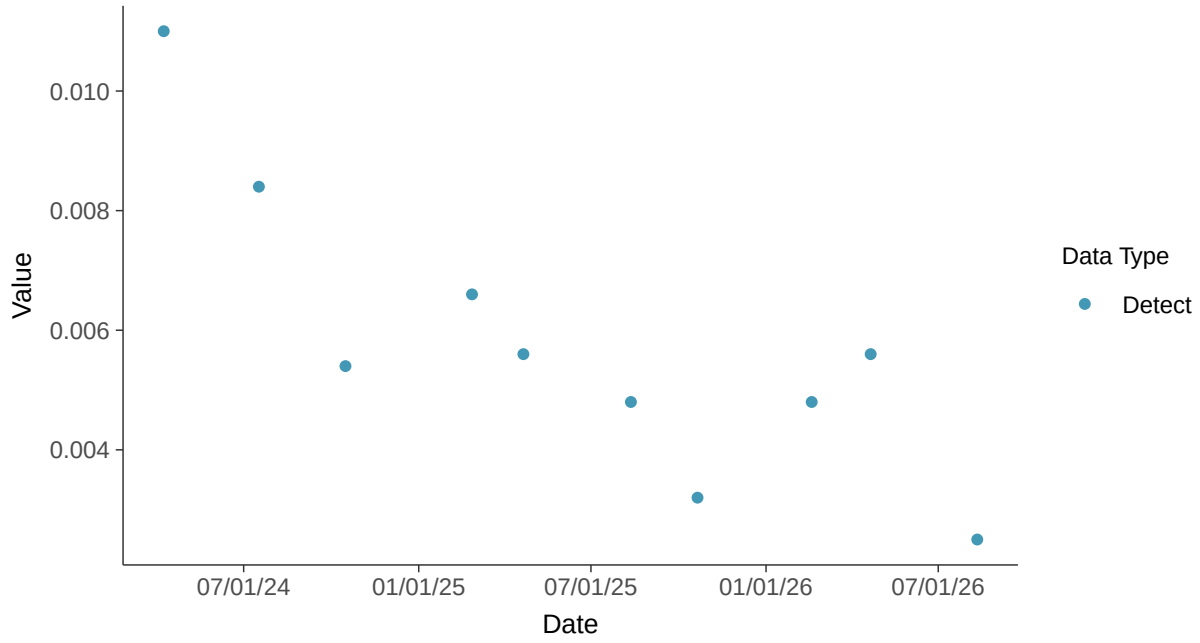


Part 115: Nickel, MW-36

ID: 46_1_5_119

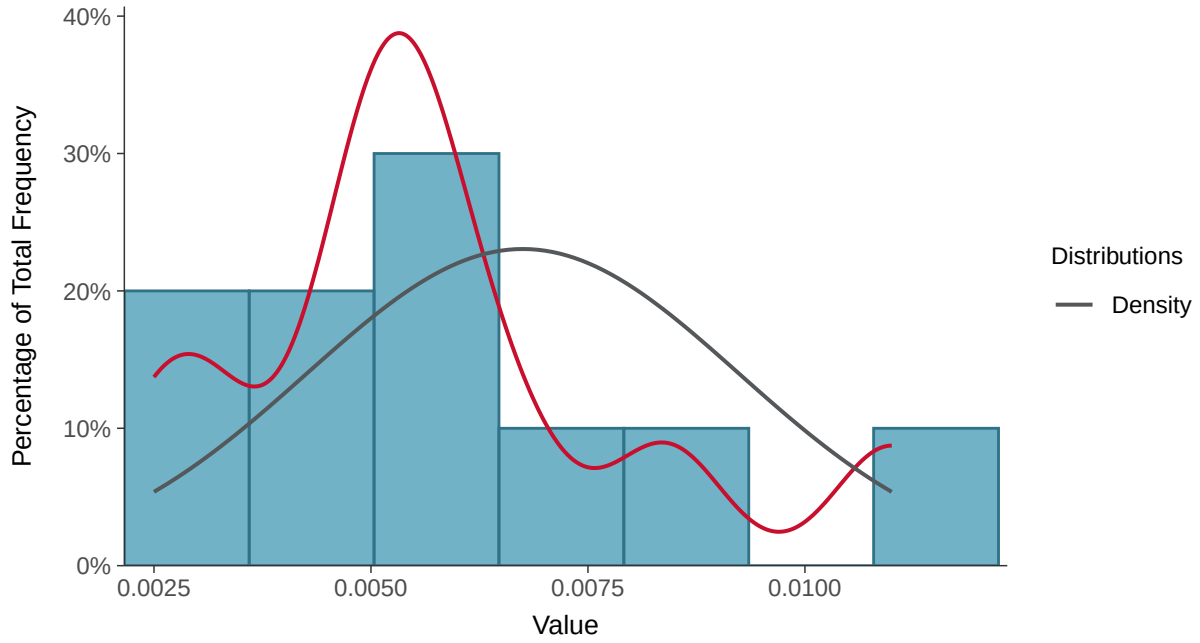
Scatter Plot

Nickel, MW-36 (mg/L)



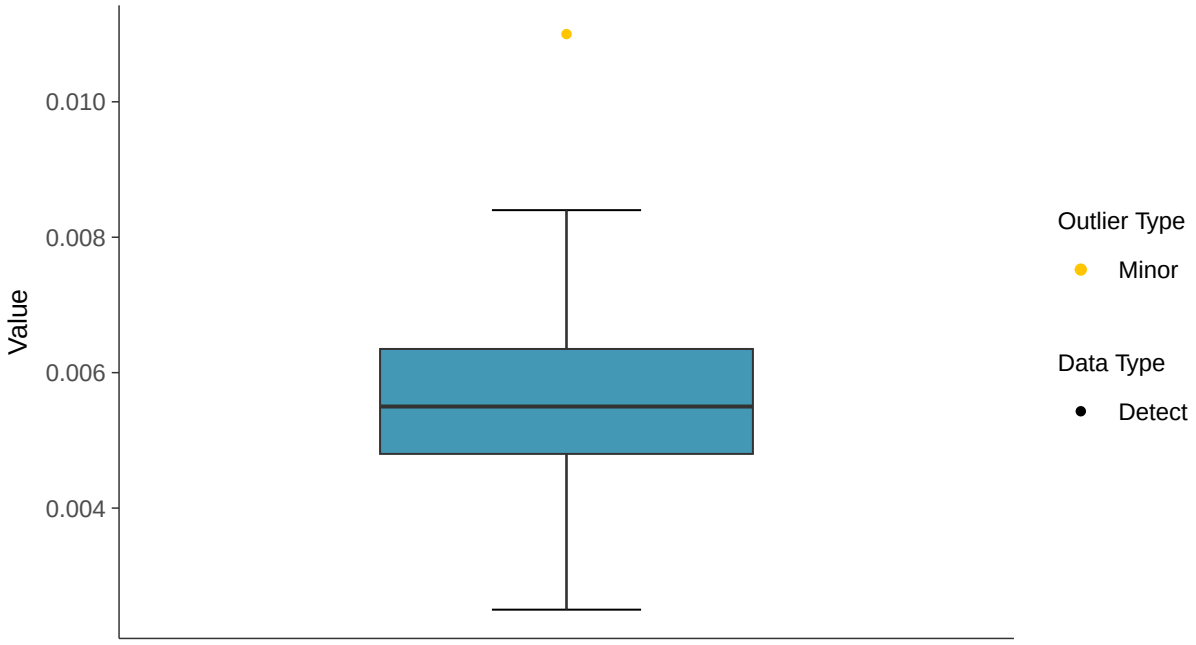
Histogram

Nickel, MW-36 (mg/L)



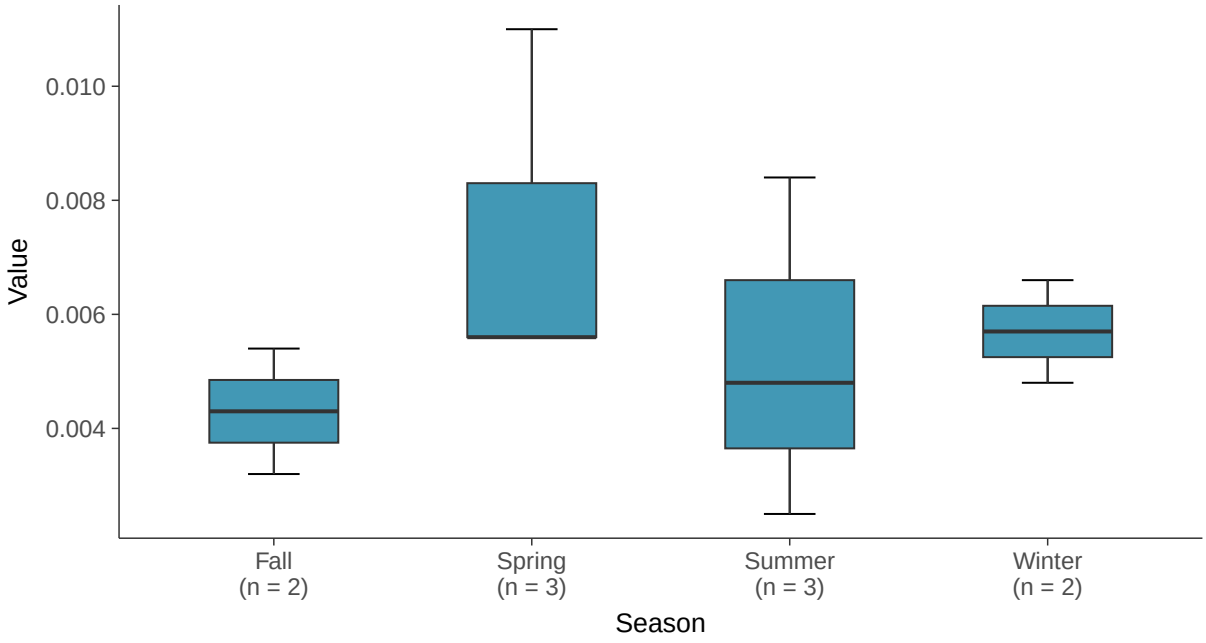
Boxplot

Nickel, MW-36 (mg/L)



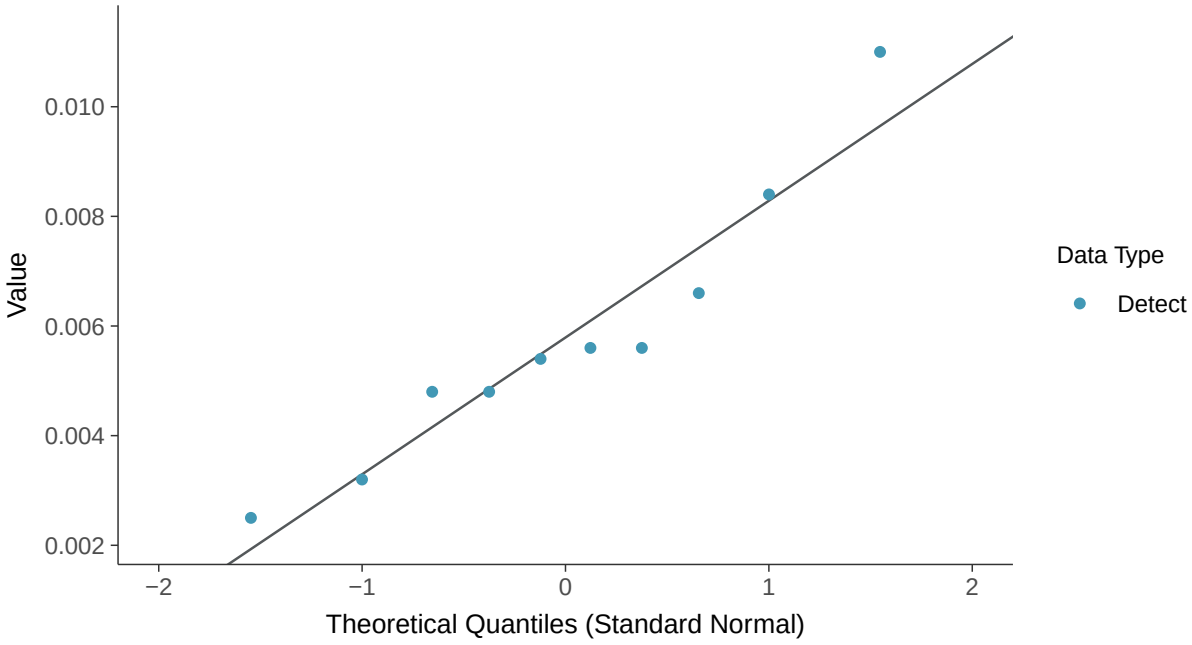
Boxplot by Season

Nickel, MW-36 (mg/L)



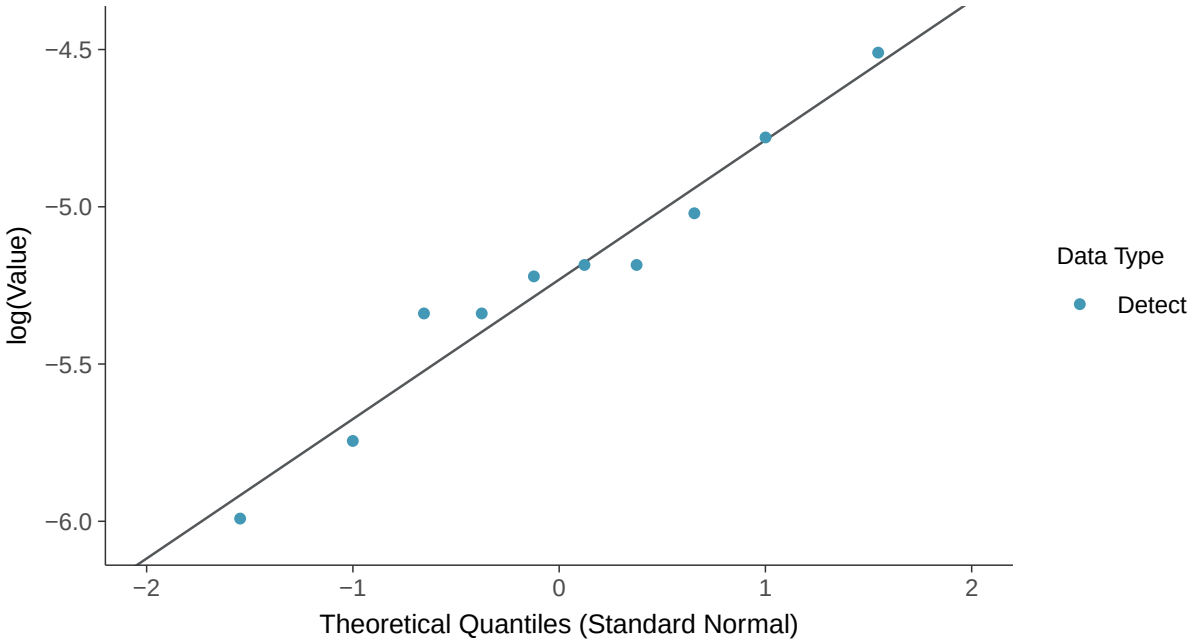
Normal Q-Q plot

Nickel, MW-36 (mg/L)



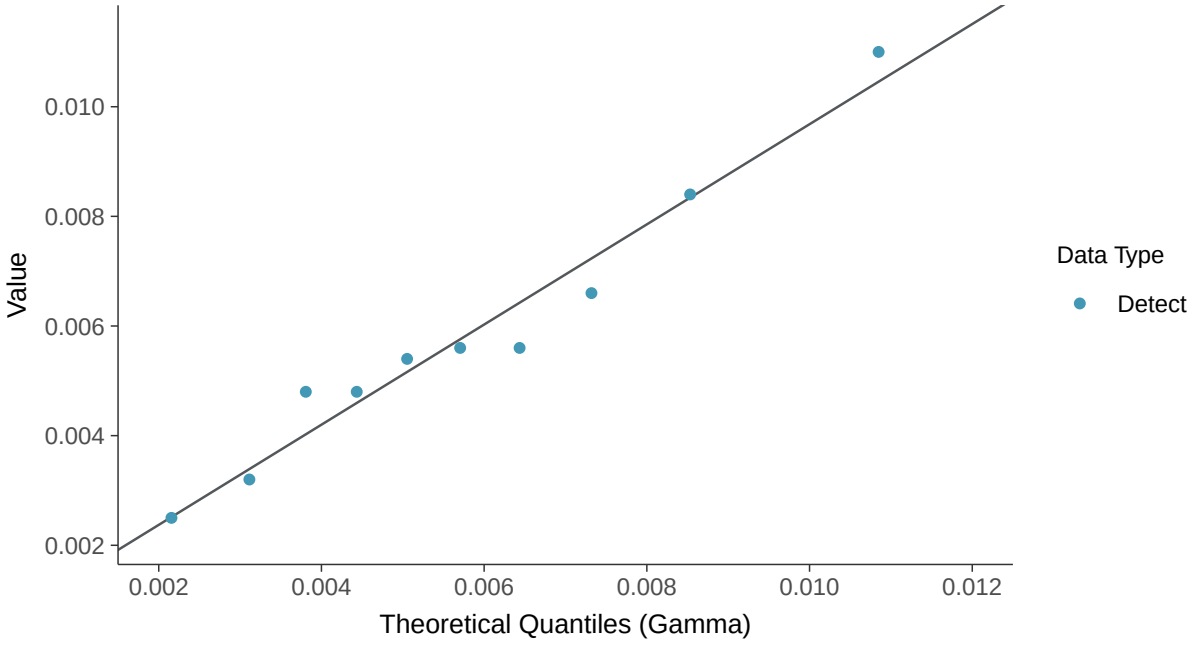
Lognormal Q-Q plot

Nickel, MW-36 (mg/L)



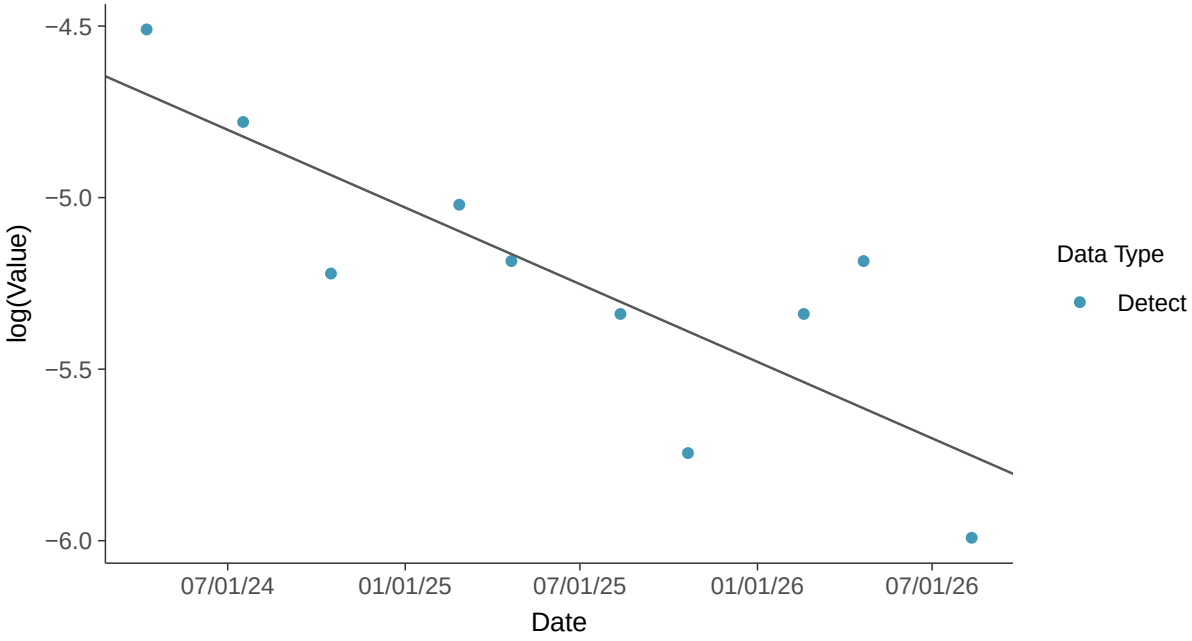
Gamma Q-Q plot

Nickel, MW-36 (mg/L)



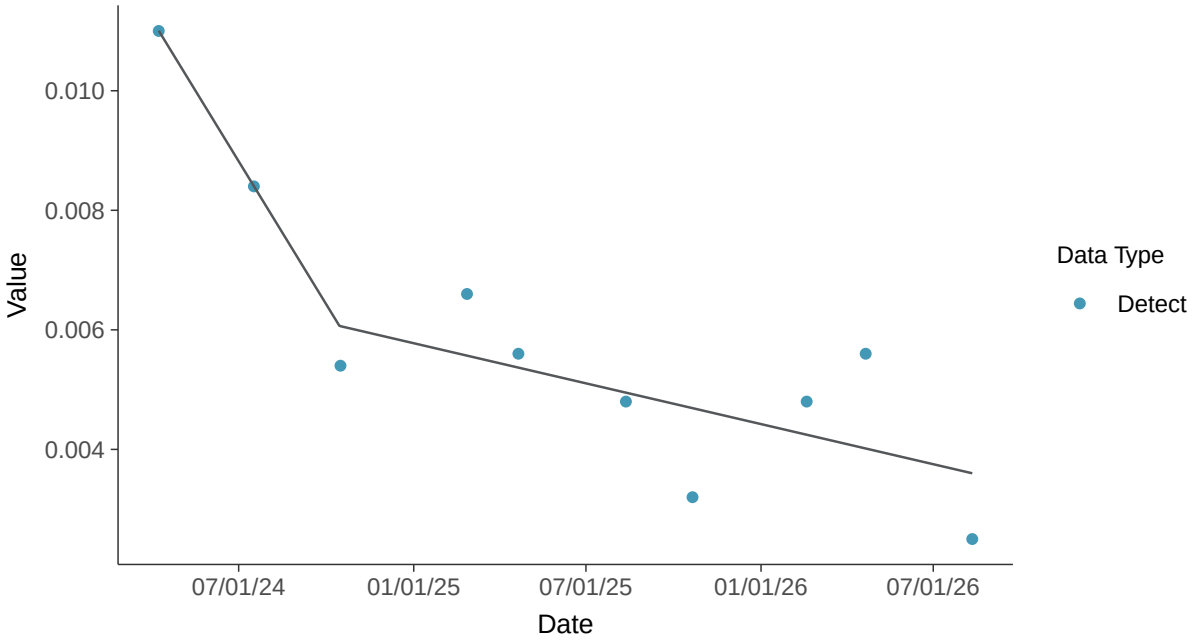
Trend Regression: Lognormal MLE

Nickel, MW-36 (mg/L)



Trend Regression: Piecewise Linear-Linear

Nickel, MW-36 (mg/L)

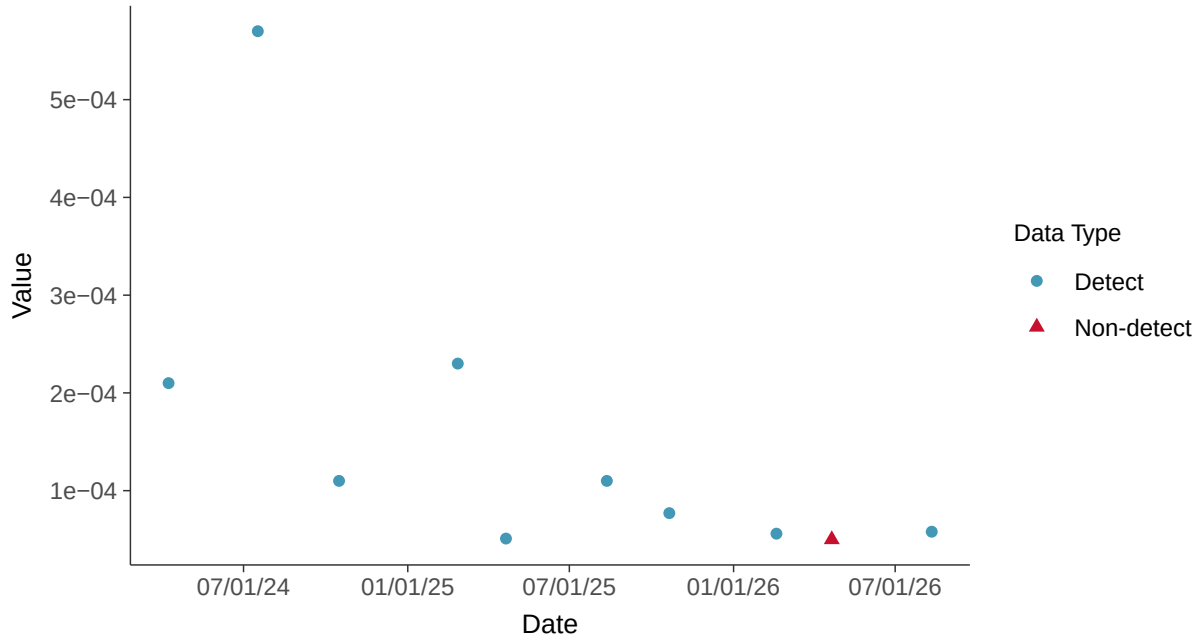


Part 115: Silver, MW-36

ID: 46_1_5_123

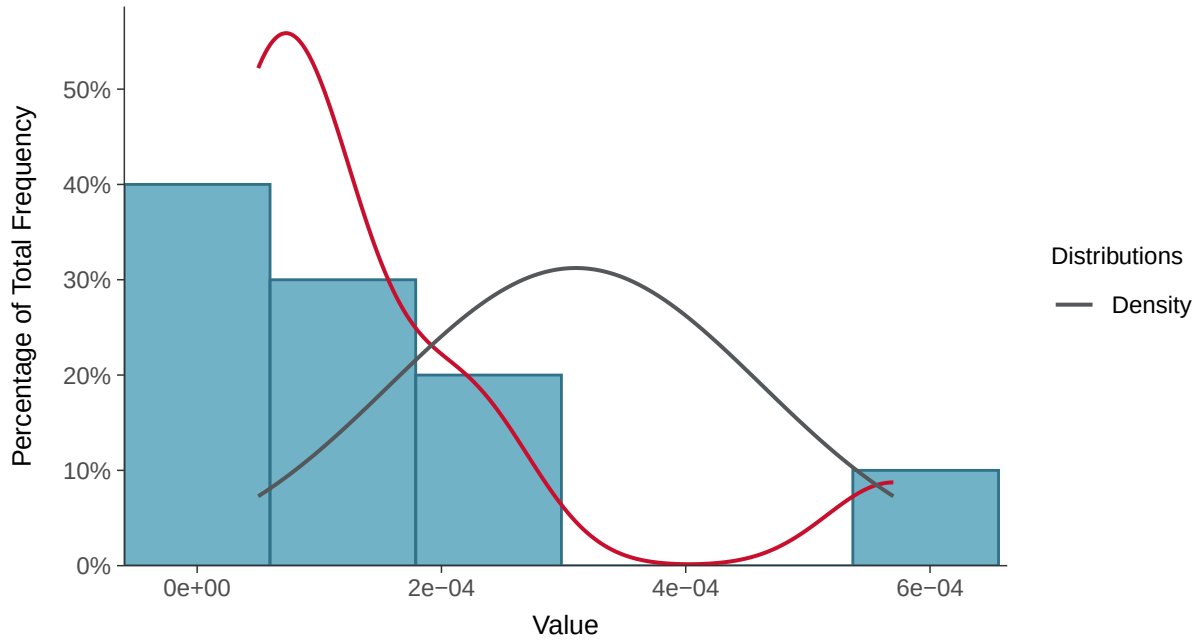
Scatter Plot

Silver, MW-36 (mg/L)



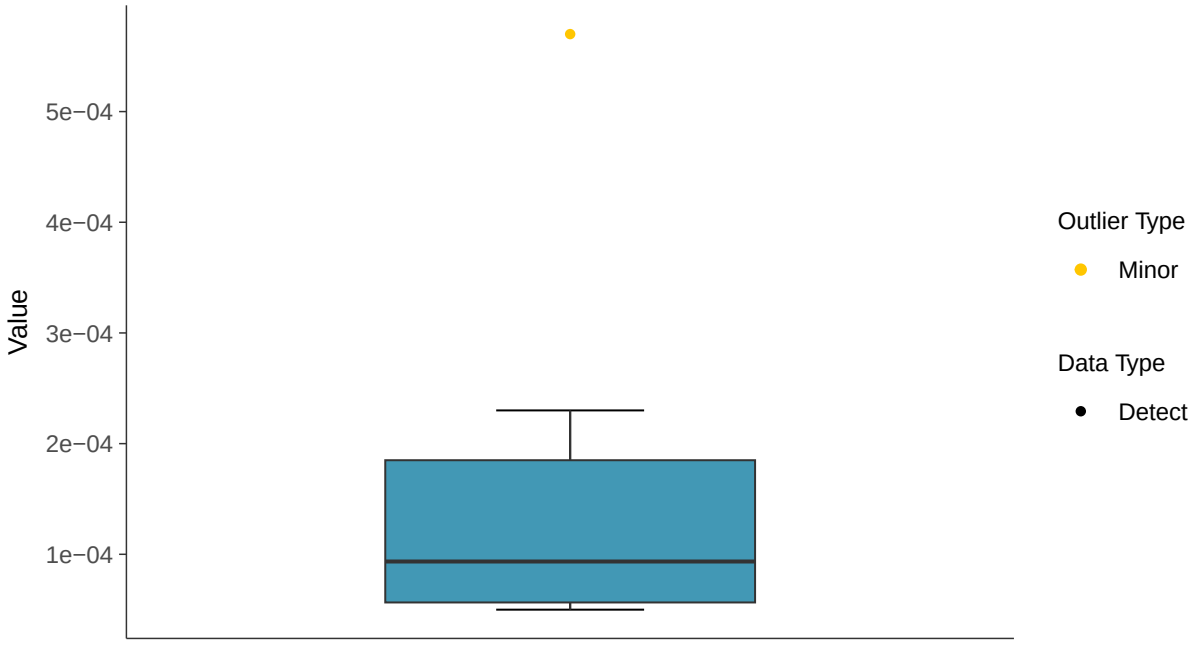
Histogram

Silver, MW-36 (mg/L)



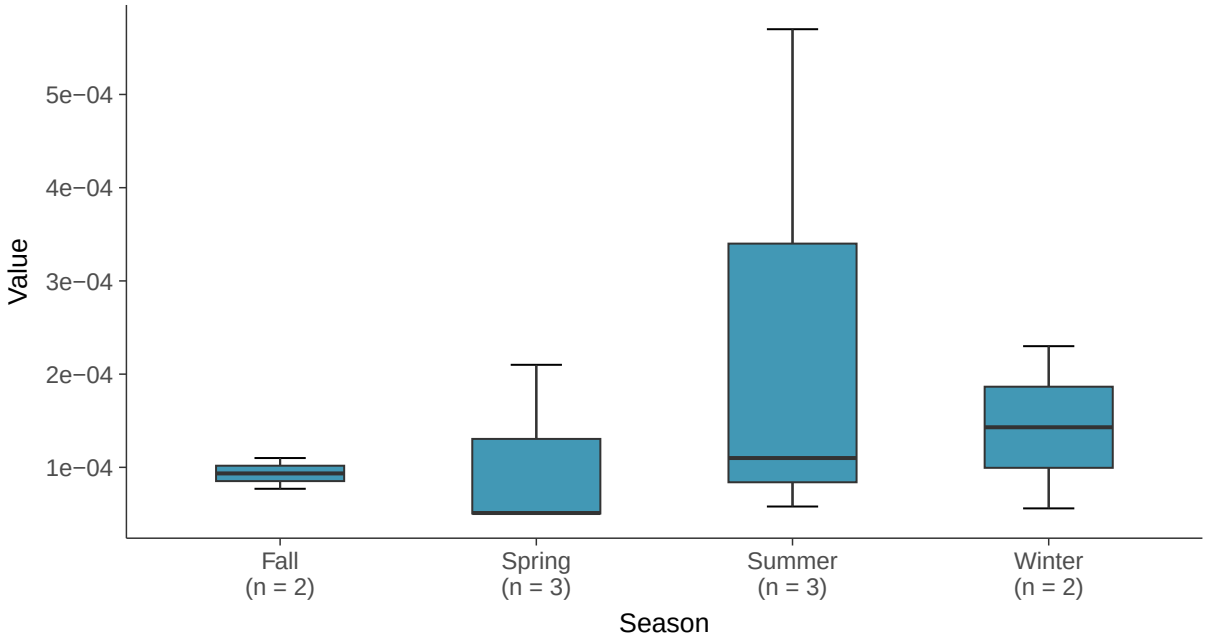
Boxplot

Silver, MW-36 (mg/L)



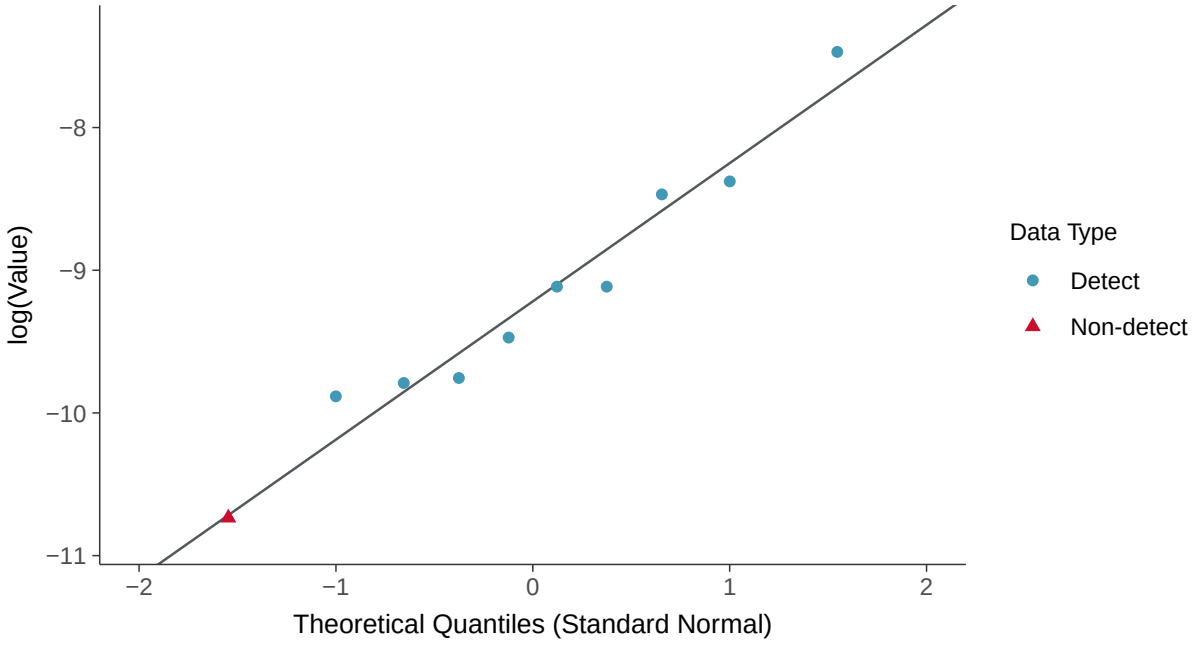
Boxplot by Season

Silver, MW-36 (mg/L)



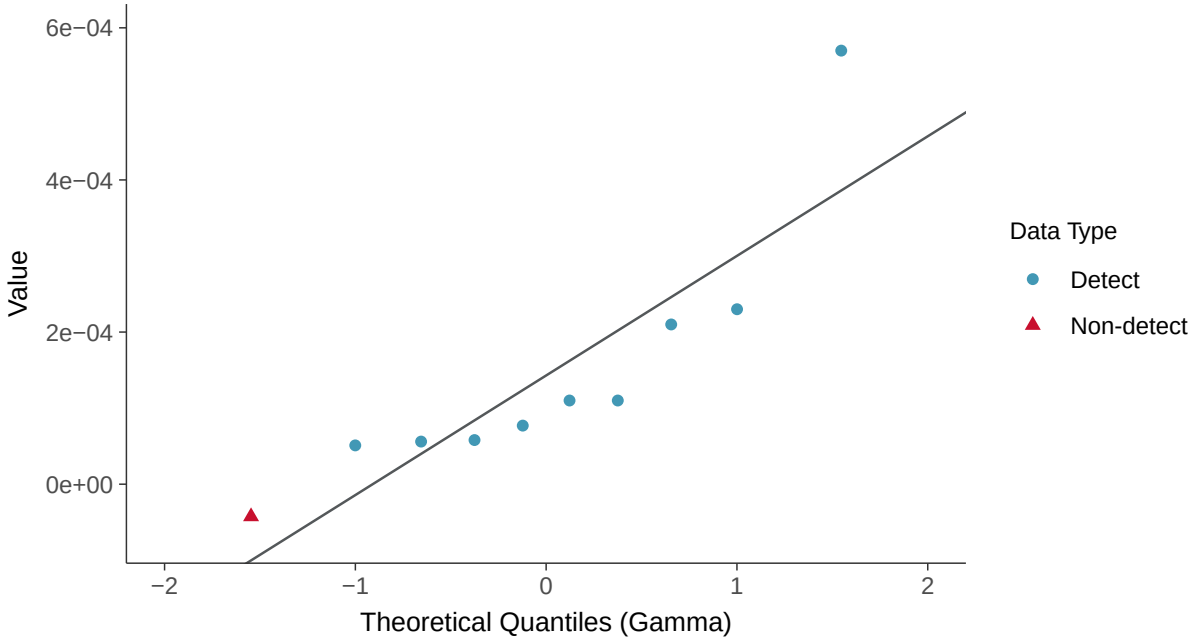
Lognormal Q-Q plot using ROS Imputed Estimates

Silver, MW-36 (mg/L)



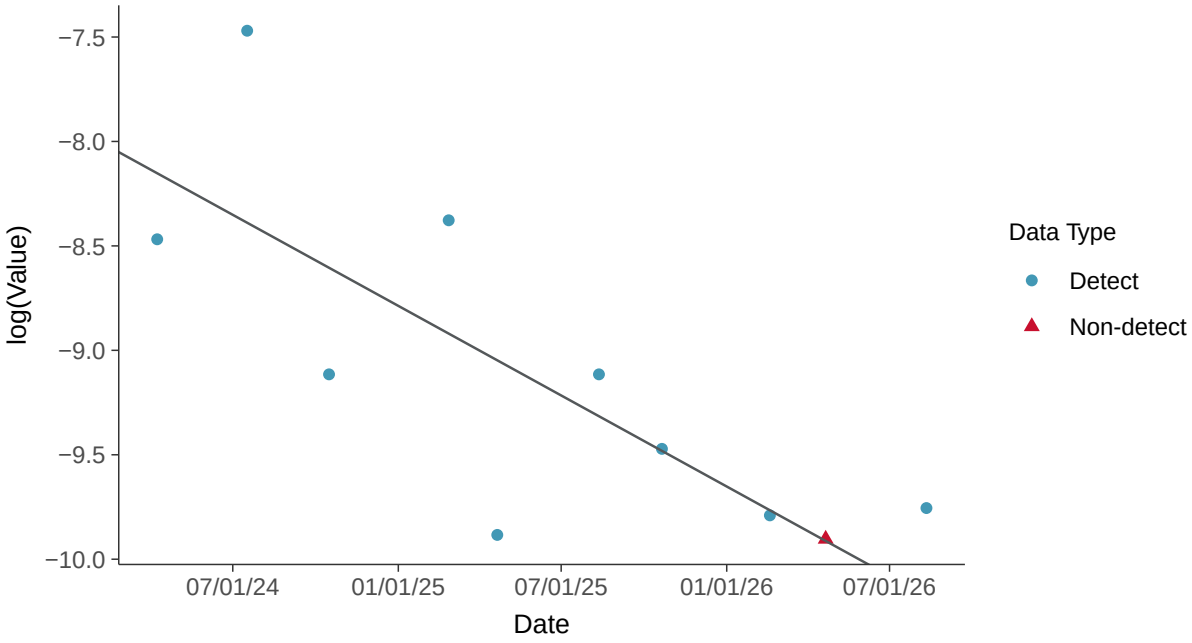
Gamma Q-Q plot using ROS Imputed Estimates

Silver, MW-36 (mg/L)



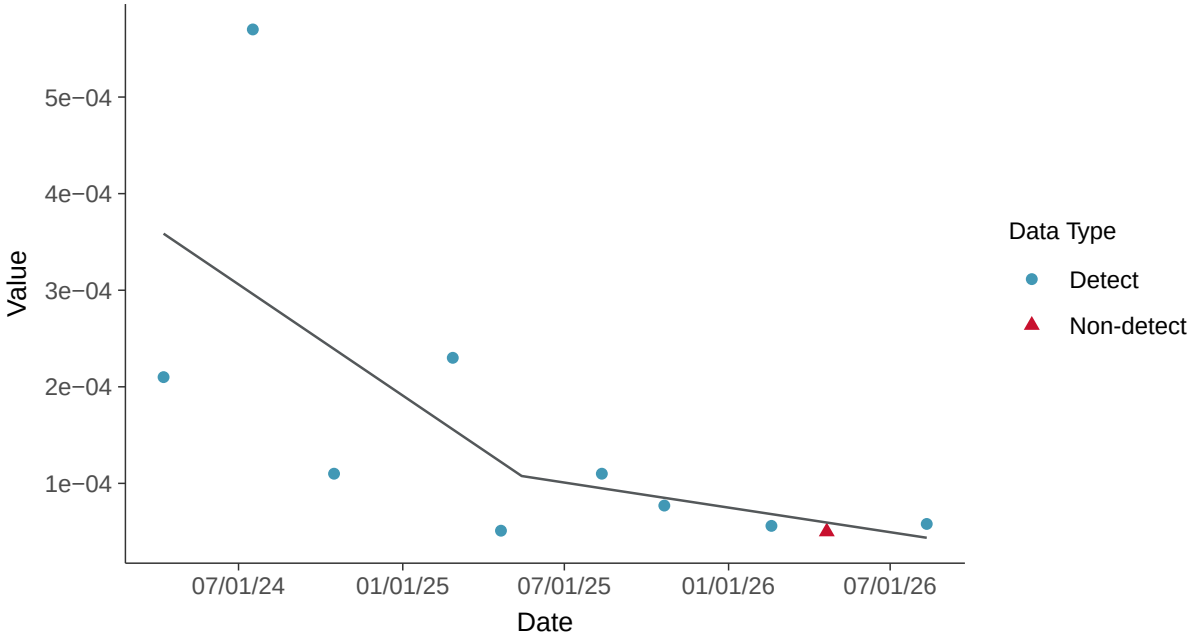
Trend Regression: Lognormal MLE

Silver, MW-36 (mg/L)



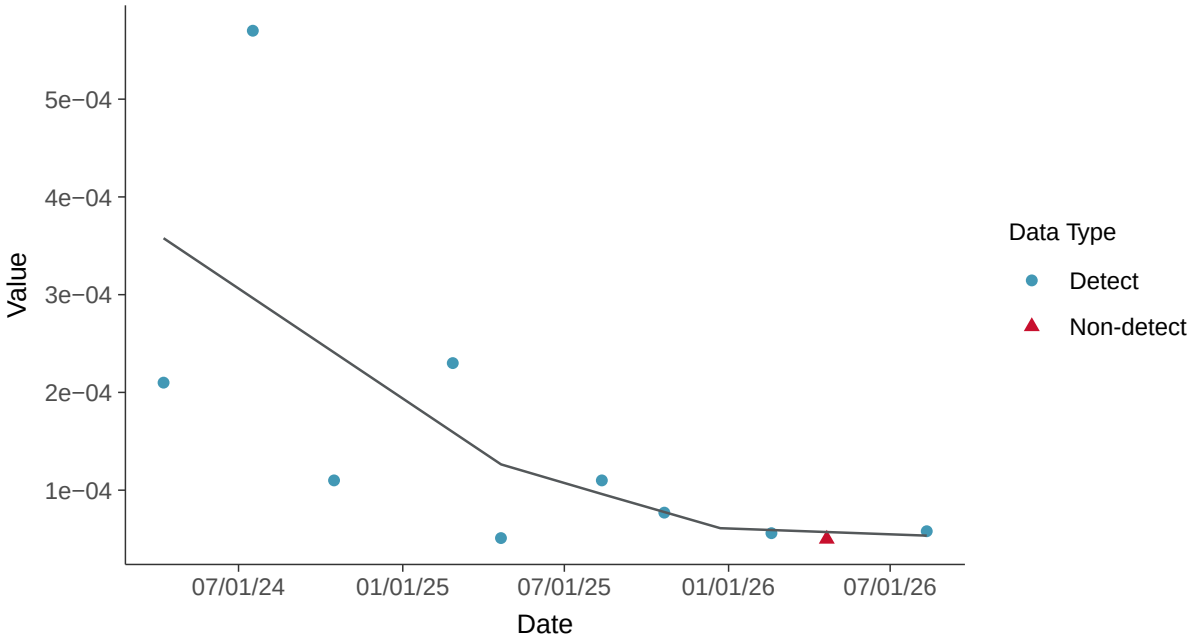
Trend Regression: Piecewise Linear-Linear

Silver, MW-36 (mg/L)



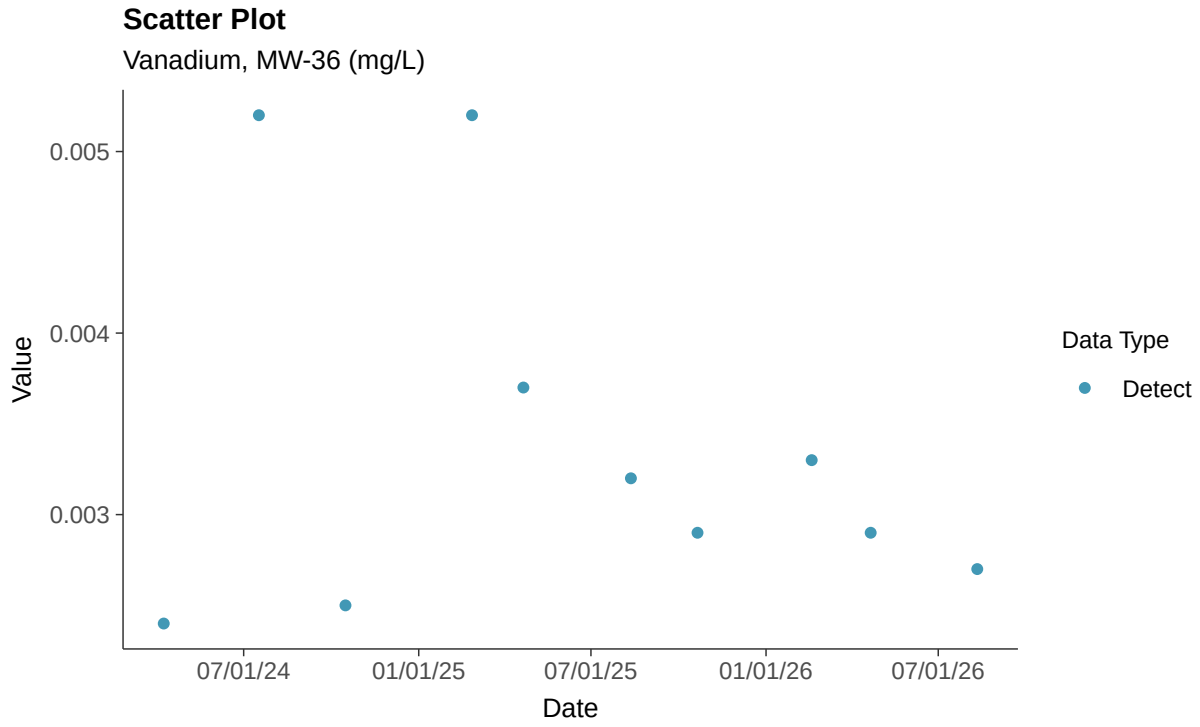
Trend Regression: Piecewise Linear-Linear-Linear

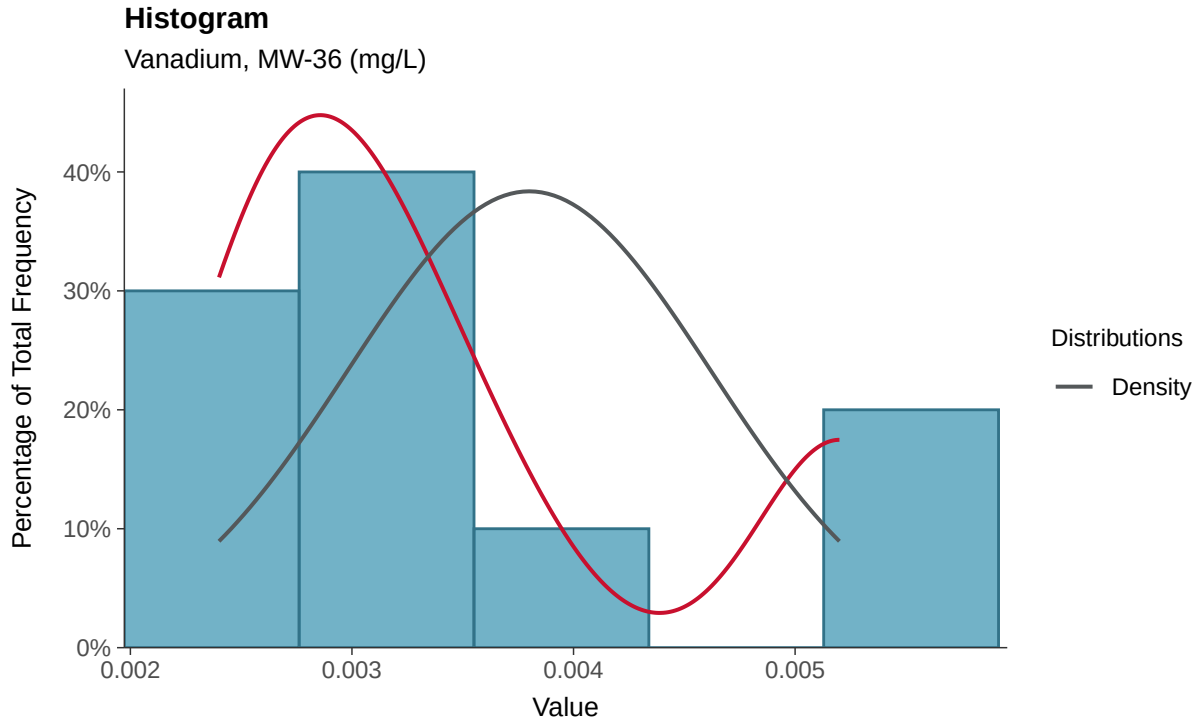
Silver, MW-36 (mg/L)



Part 115: Vanadium, MW-36

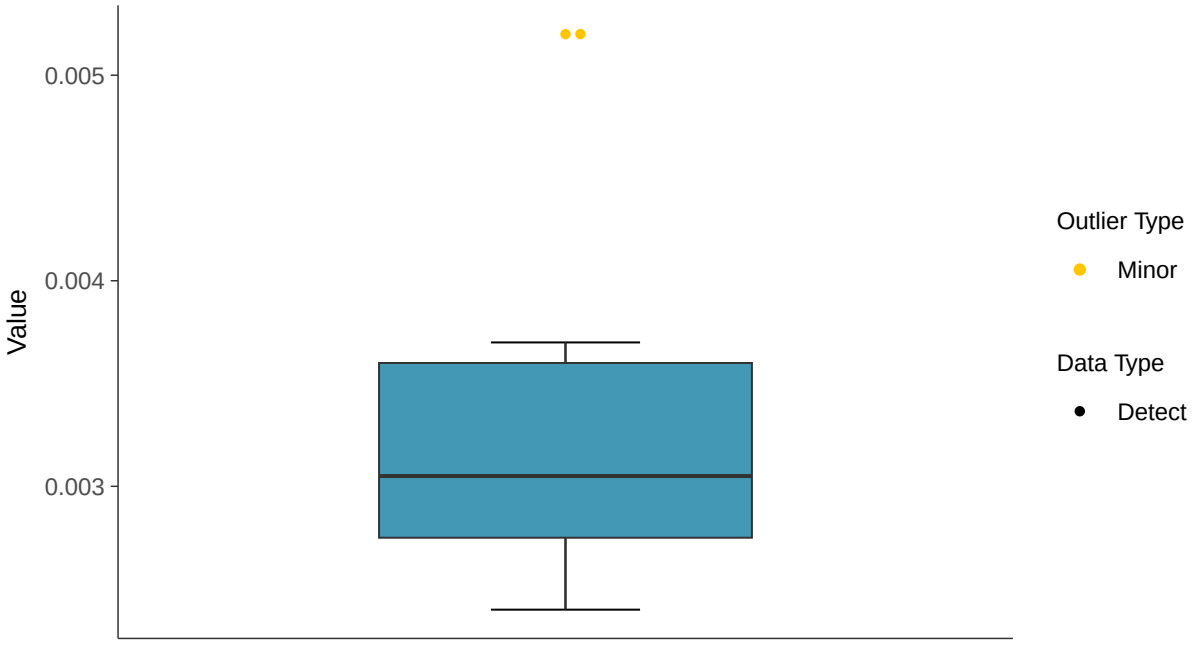
ID: 46_1_5_128





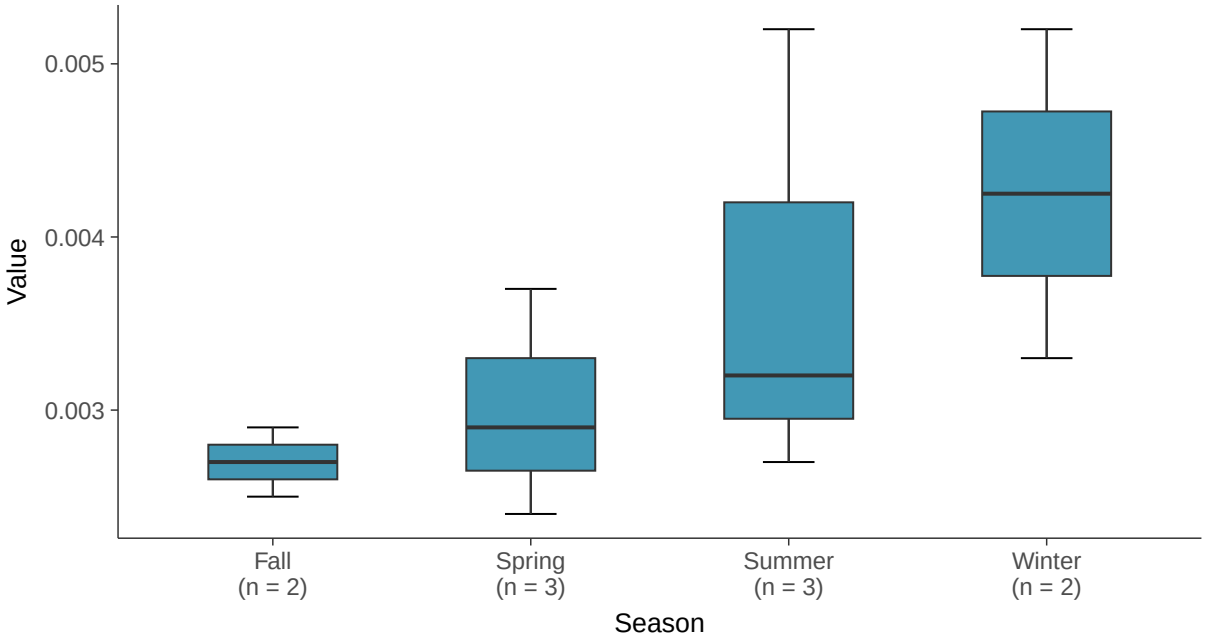
Boxplot

Vanadium, MW-36 (mg/L)



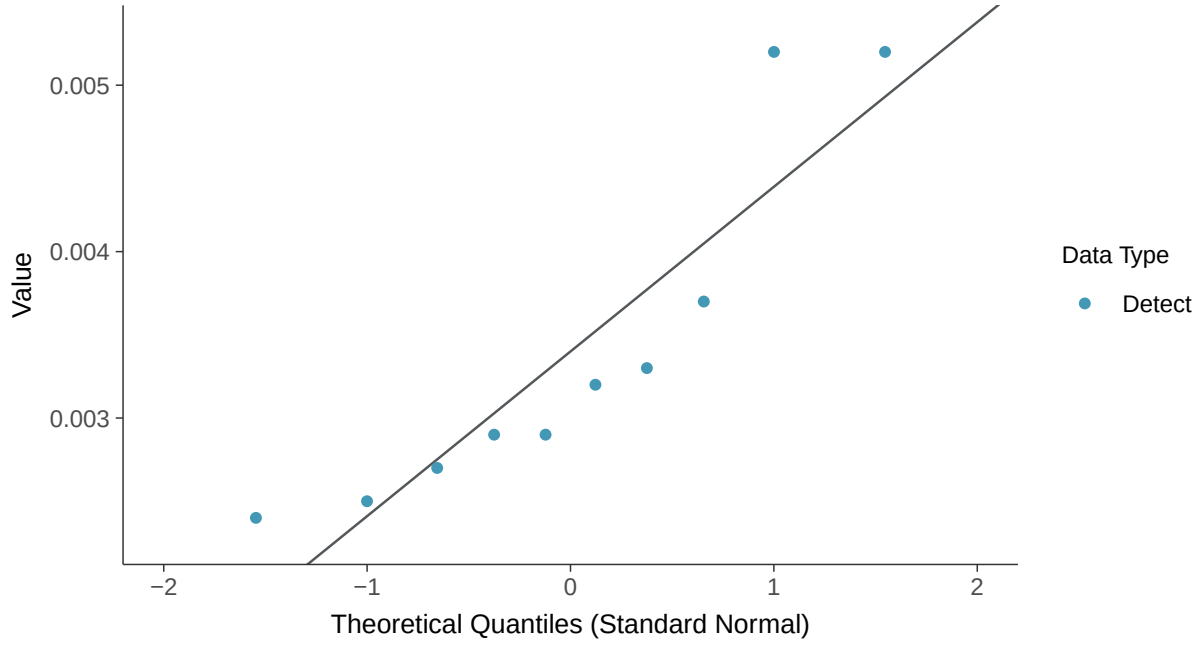
Boxplot by Season

Vanadium, MW-36 (mg/L)



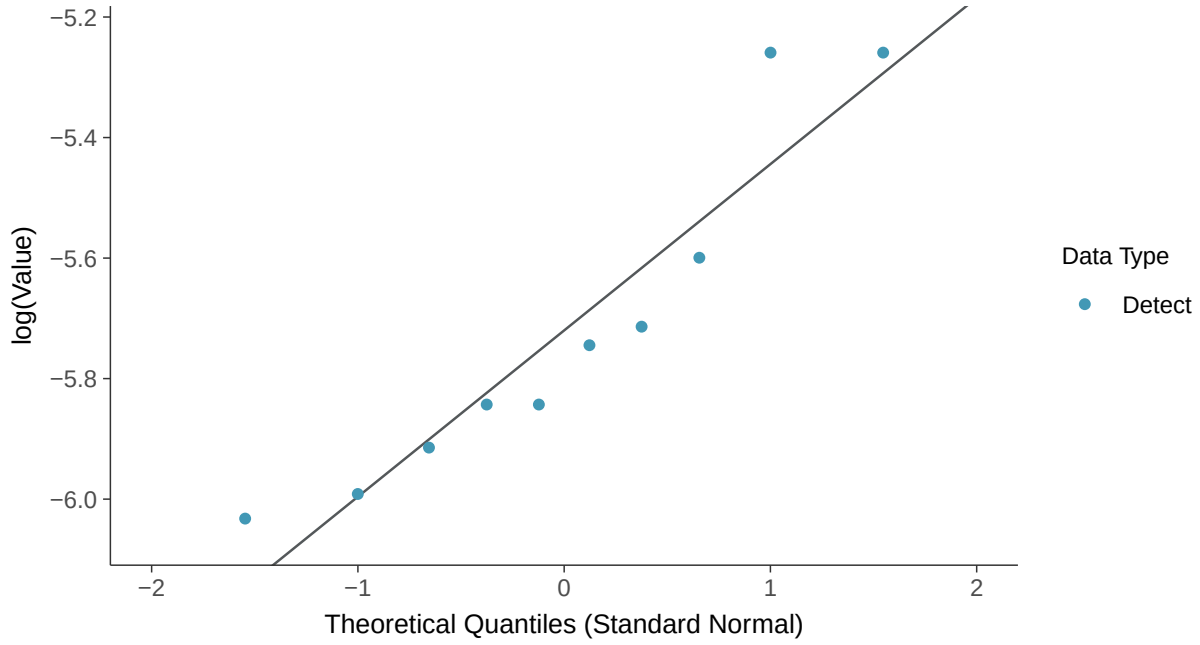
Normal Q-Q plot

Vanadium, MW-36 (mg/L)



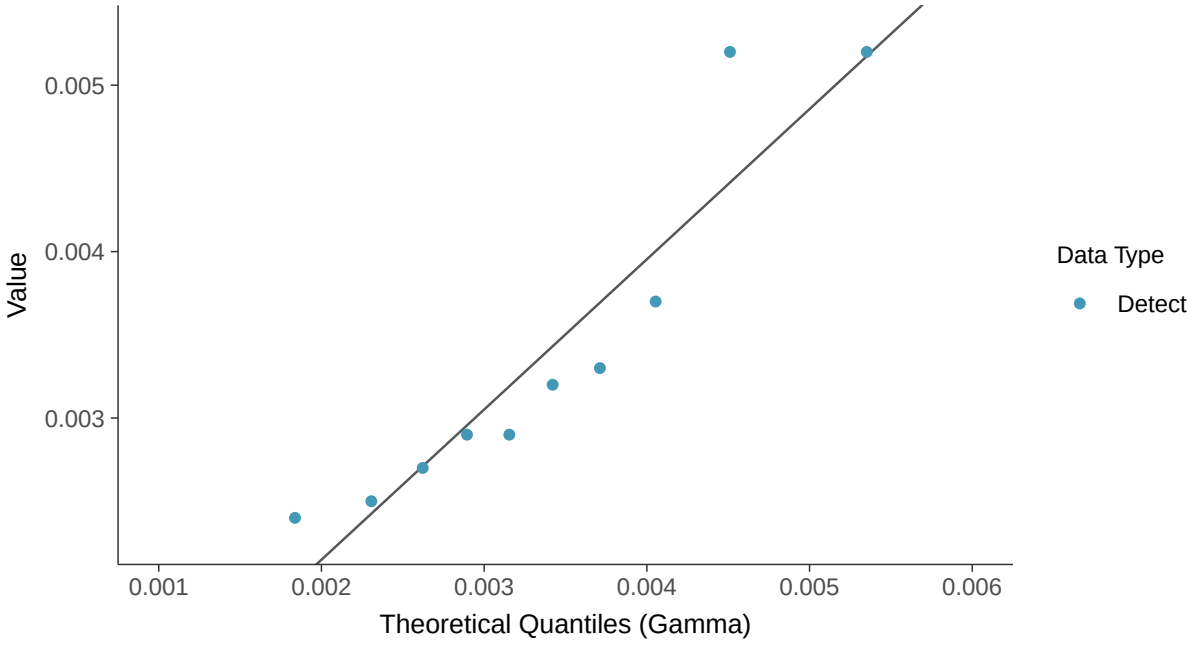
Lognormal Q-Q plot

Vanadium, MW-36 (mg/L)



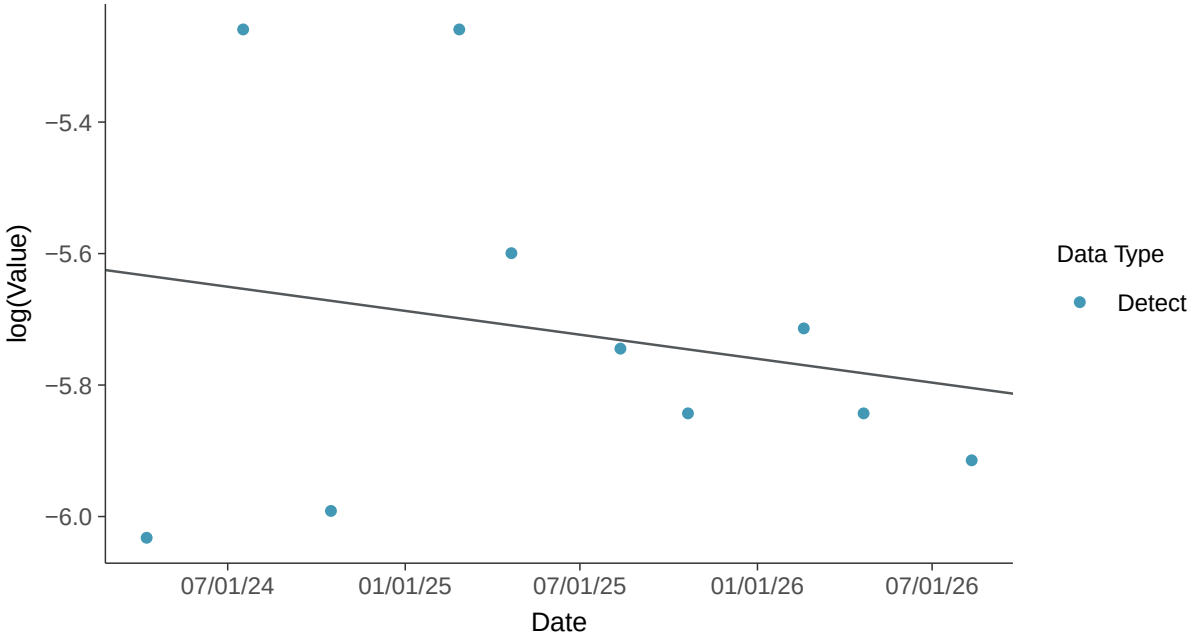
Gamma Q-Q plot

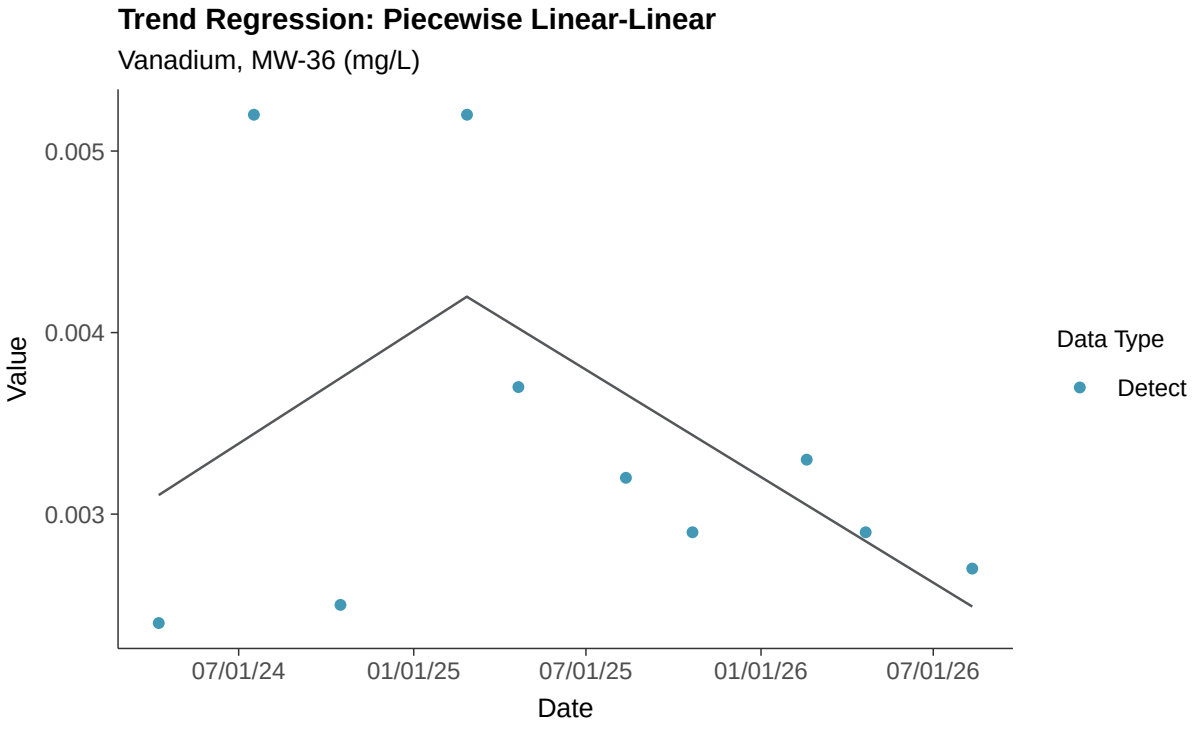
Vanadium, MW-36 (mg/L)



Trend Regression: Lognormal MLE

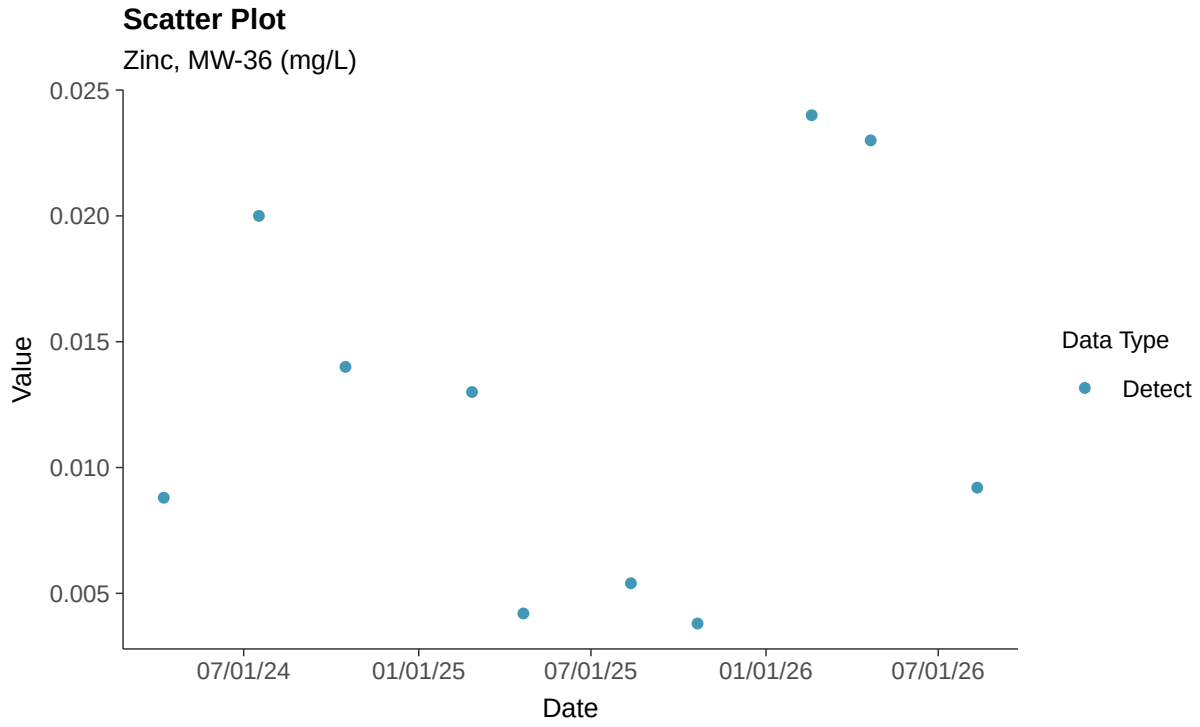
Vanadium, MW-36 (mg/L)

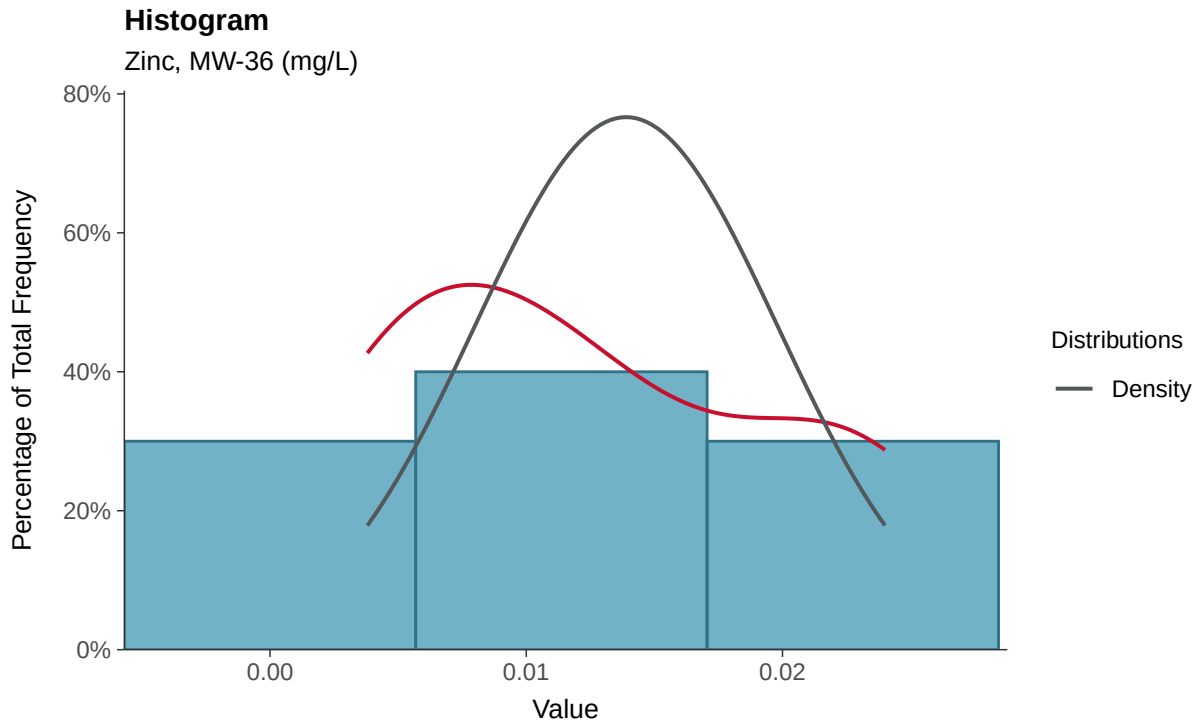



Trend Regression: Piecewise Linear-Linear
Vanadium, MW-36 (mg/L)
0.005
0.004
0.003
Value
07/01/24
01/01/25
07/01/25
01/01/26
07/01/26
Date
Data Type
Detect

Part 115: Zinc, MW-36

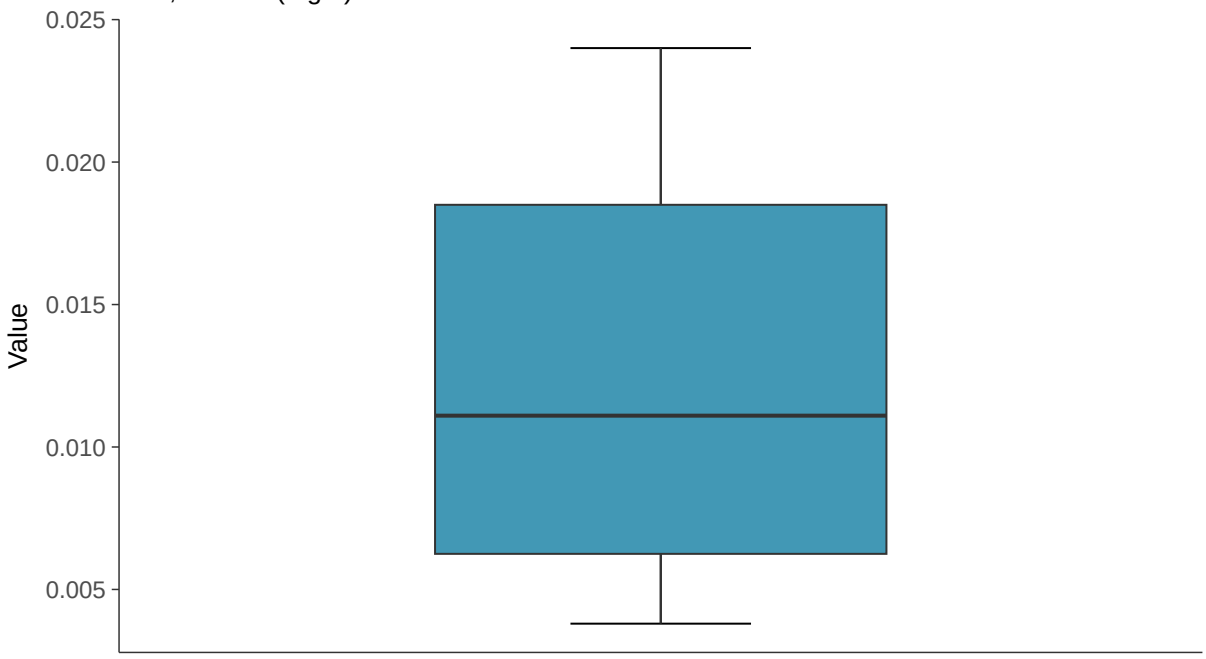
ID: 46_1_5_129





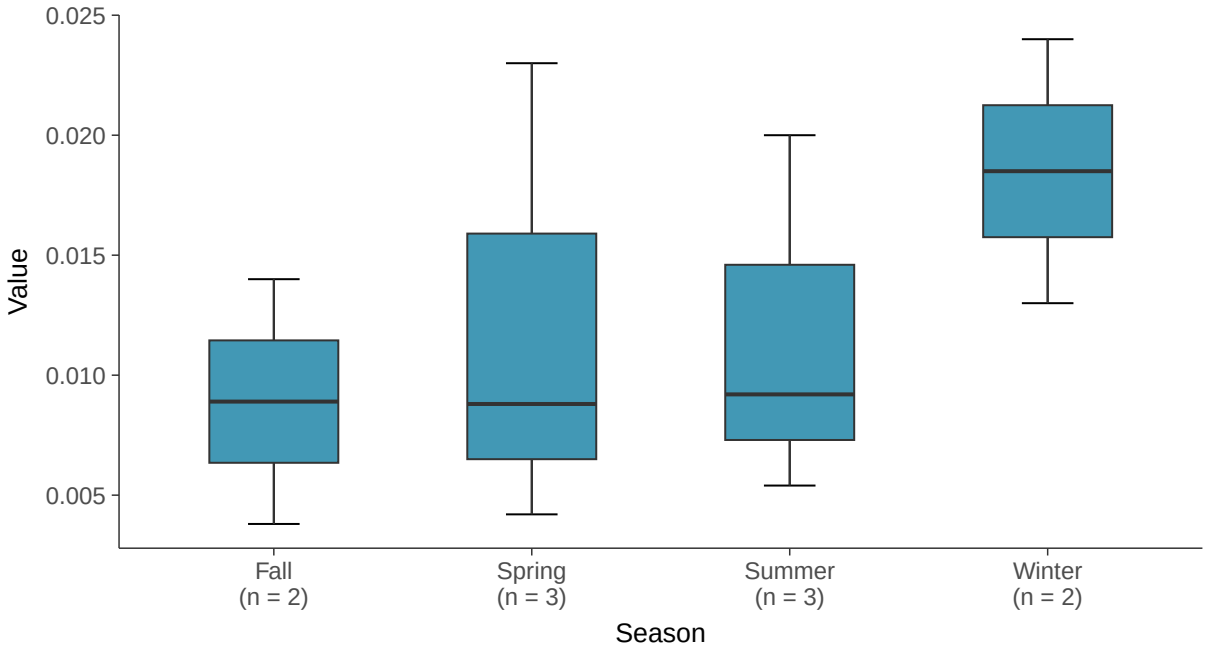
Boxplot

Zinc, MW-36 (mg/L)



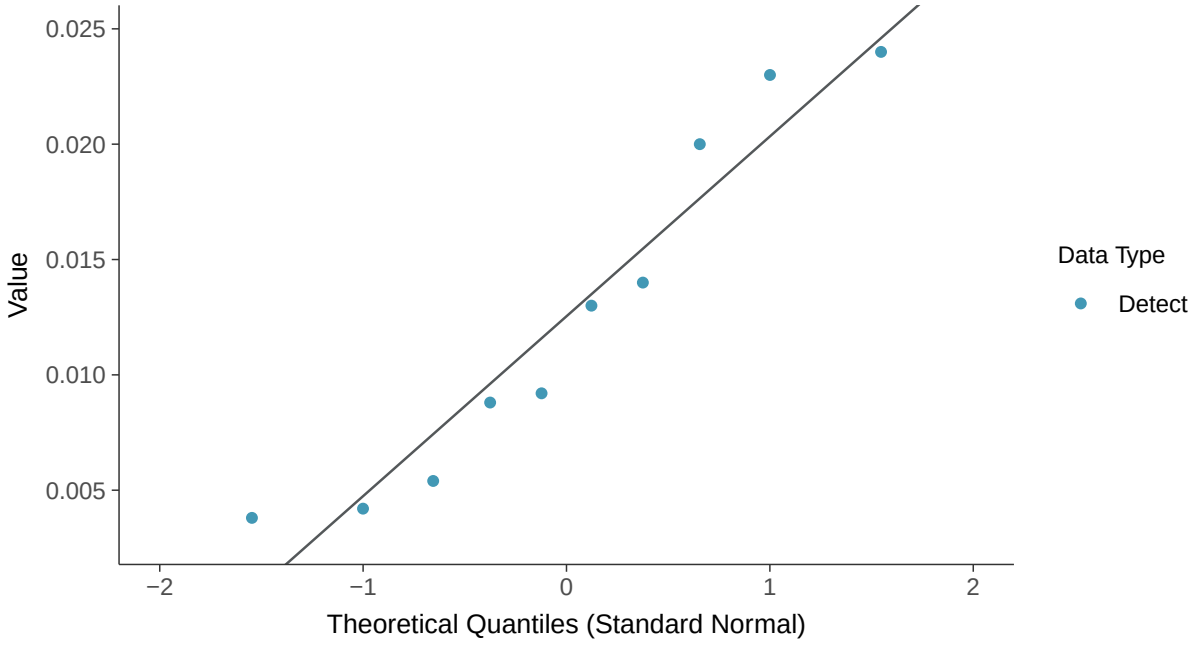
Boxplot by Season

Zinc, MW-36 (mg/L)



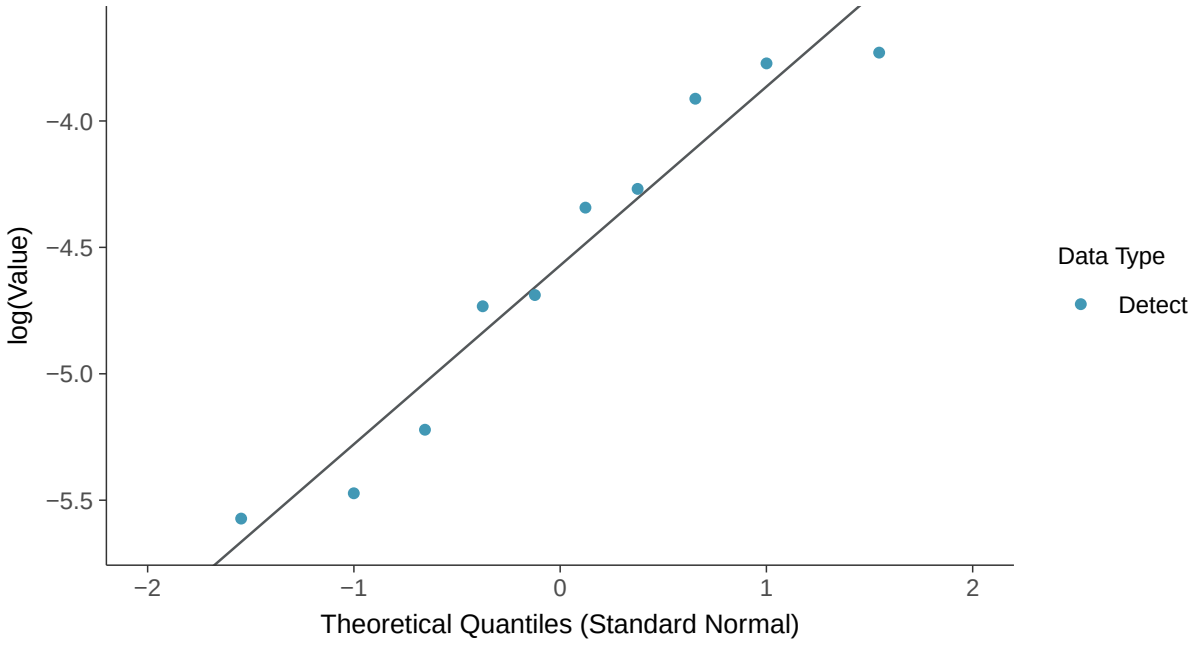
Normal Q-Q plot

Zinc, MW-36 (mg/L)



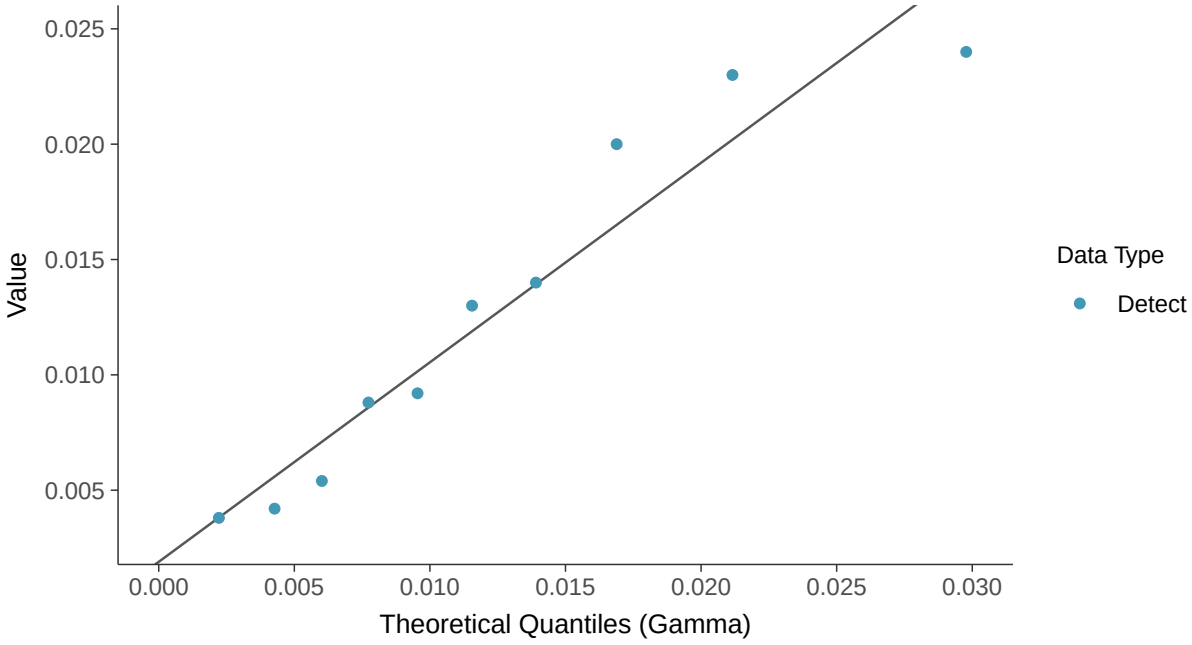
Lognormal Q-Q plot

Zinc, MW-36 (mg/L)



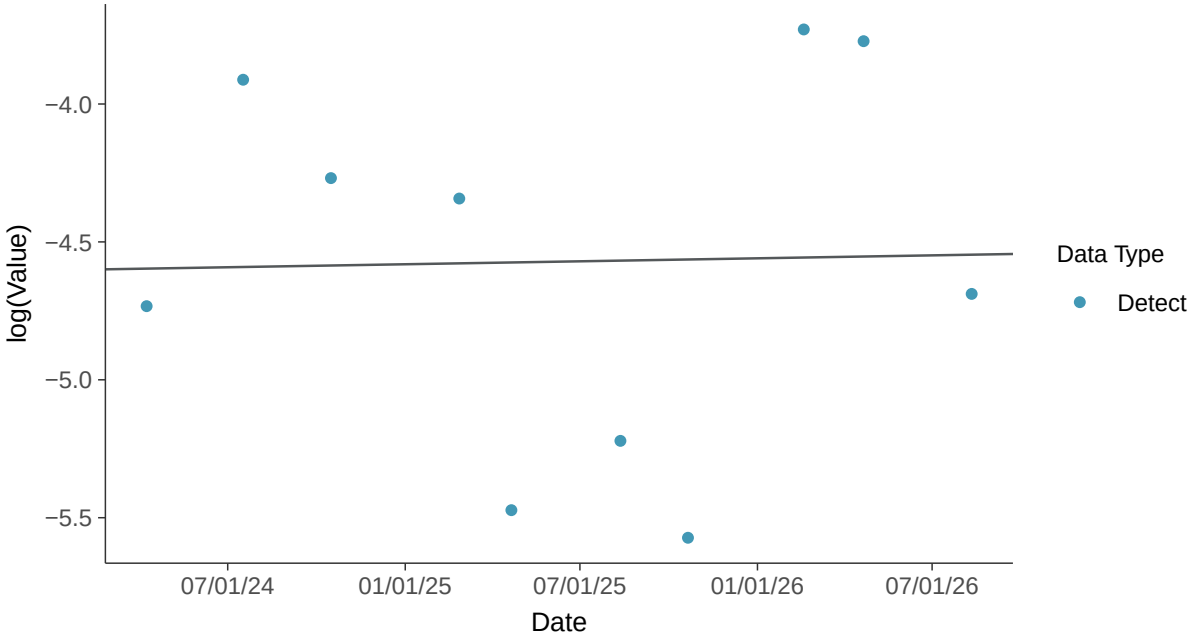
Gamma Q-Q plot

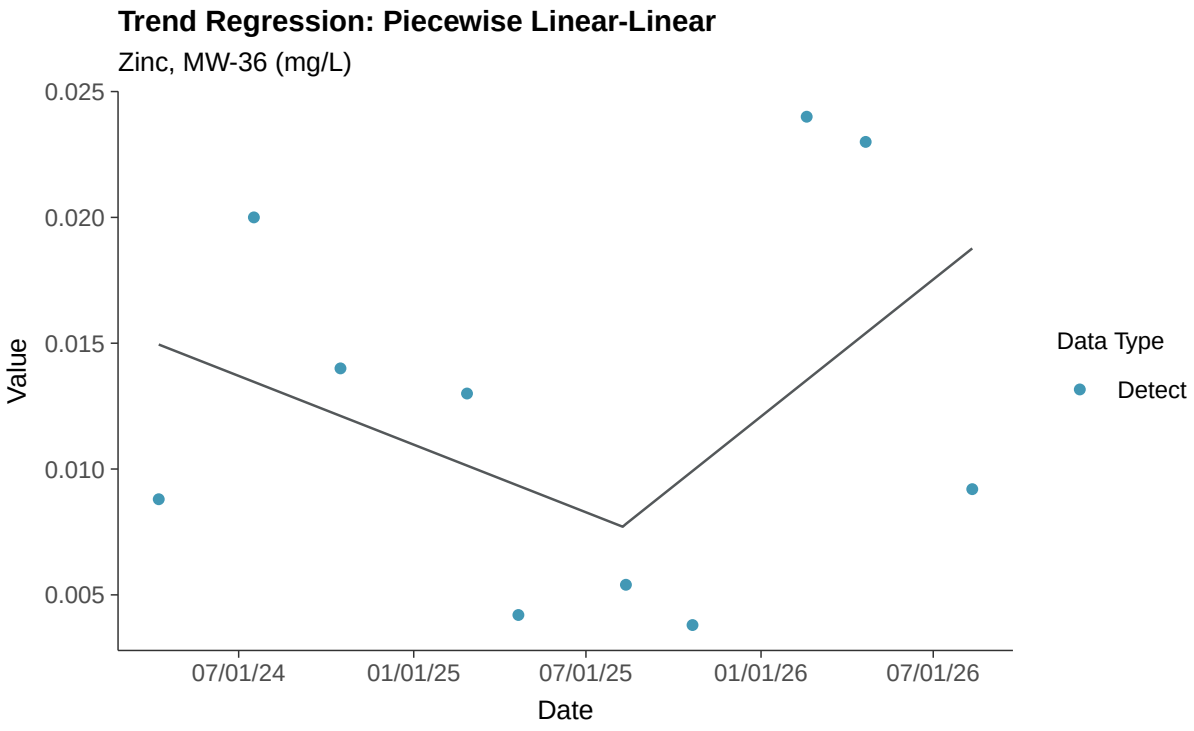
Zinc, MW-36 (mg/L)



Trend Regression: Lognormal MLE

Zinc, MW-36 (mg/L)



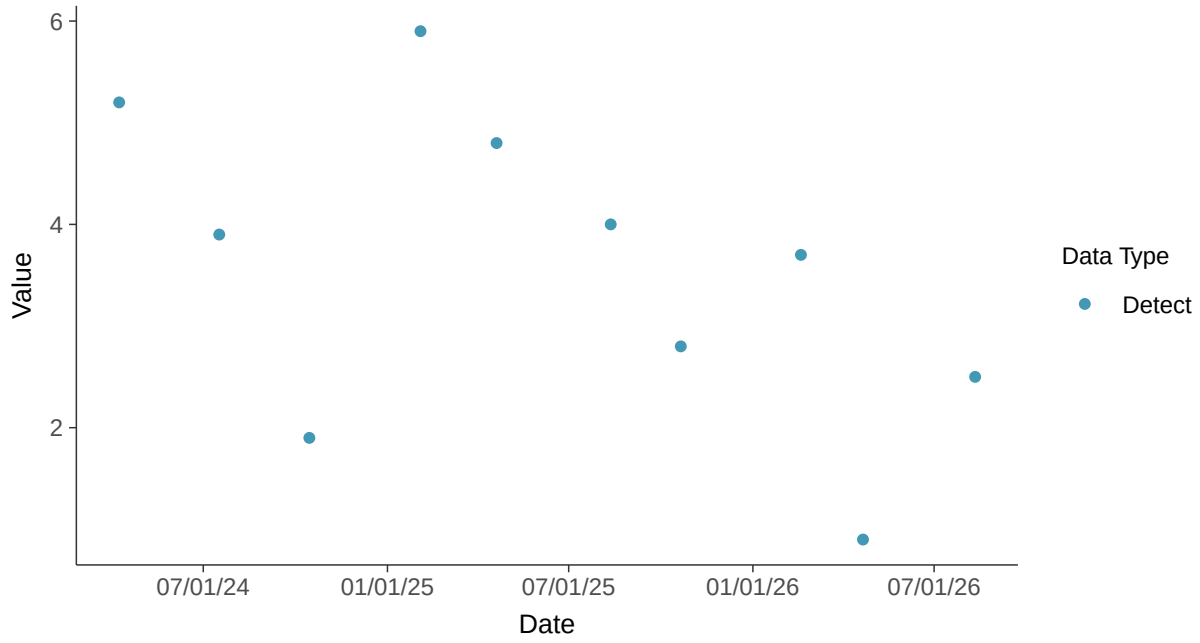

Trend Regression: Piecewise Linear-Linear
Zinc, MW-36 (mg/L)
0.025
0.020
0.015
0.010
0.005
Value
07/01/24
01/01/25
07/01/25
01/01/26
07/01/26
Date
Data Type
Detect

Appendix III: Boron, MW-37

ID: 47_1_3_105

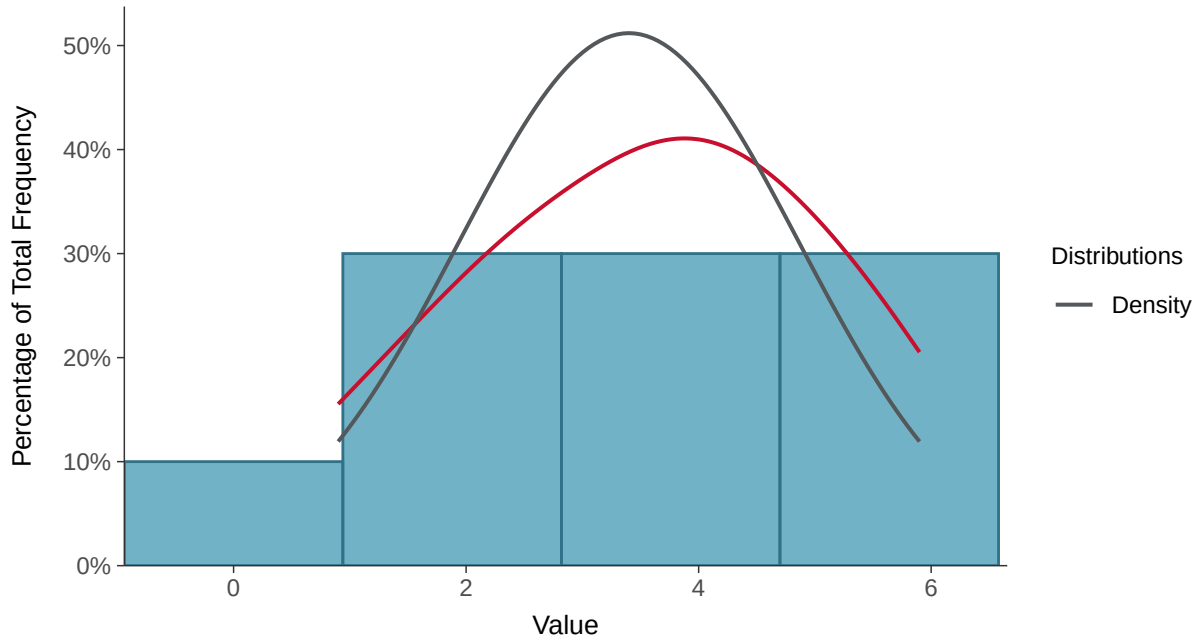
Scatter Plot

Boron, MW-37 (mg/L)



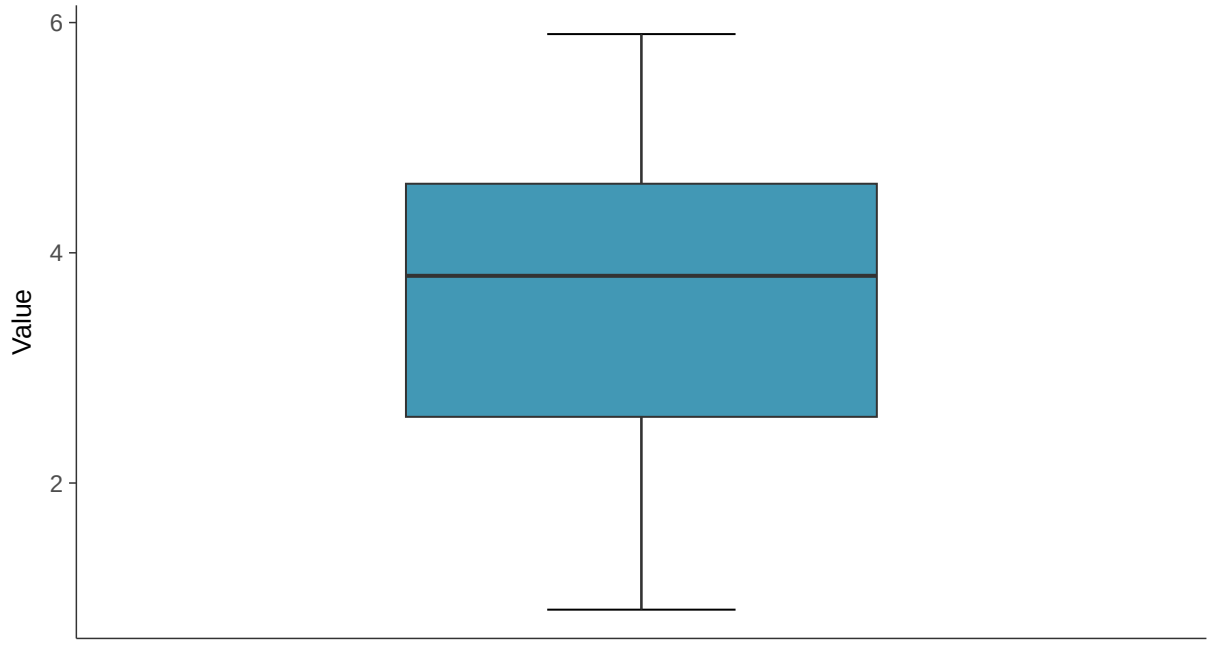
Histogram

Boron, MW-37 (mg/L)



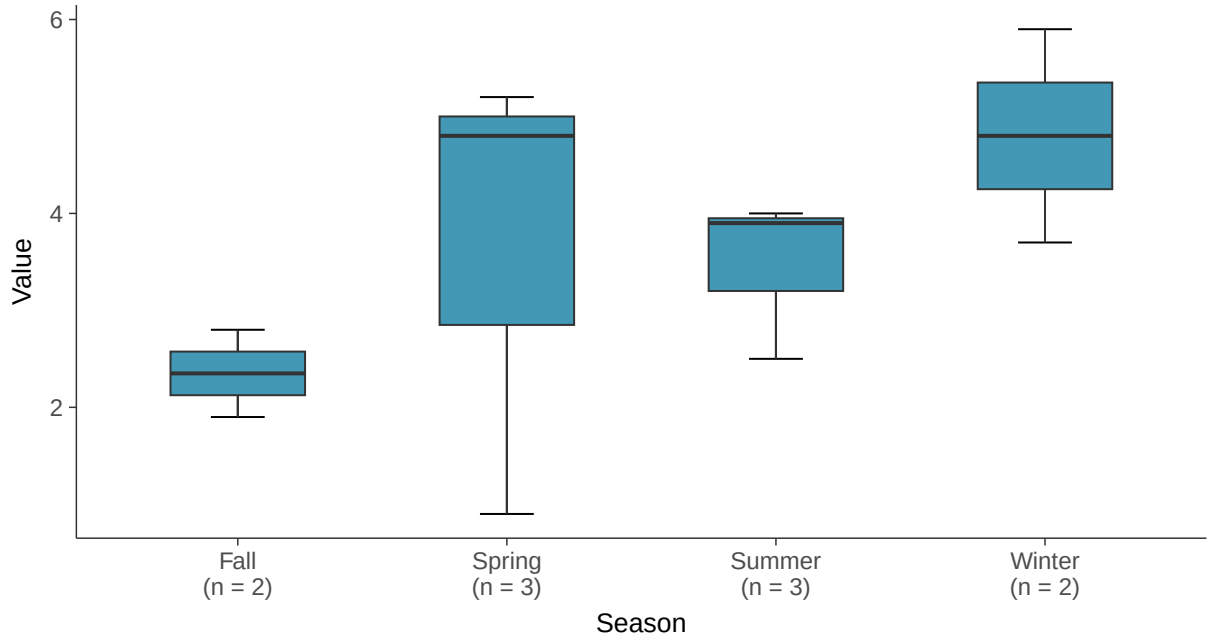
Boxplot

Boron, MW-37 (mg/L)



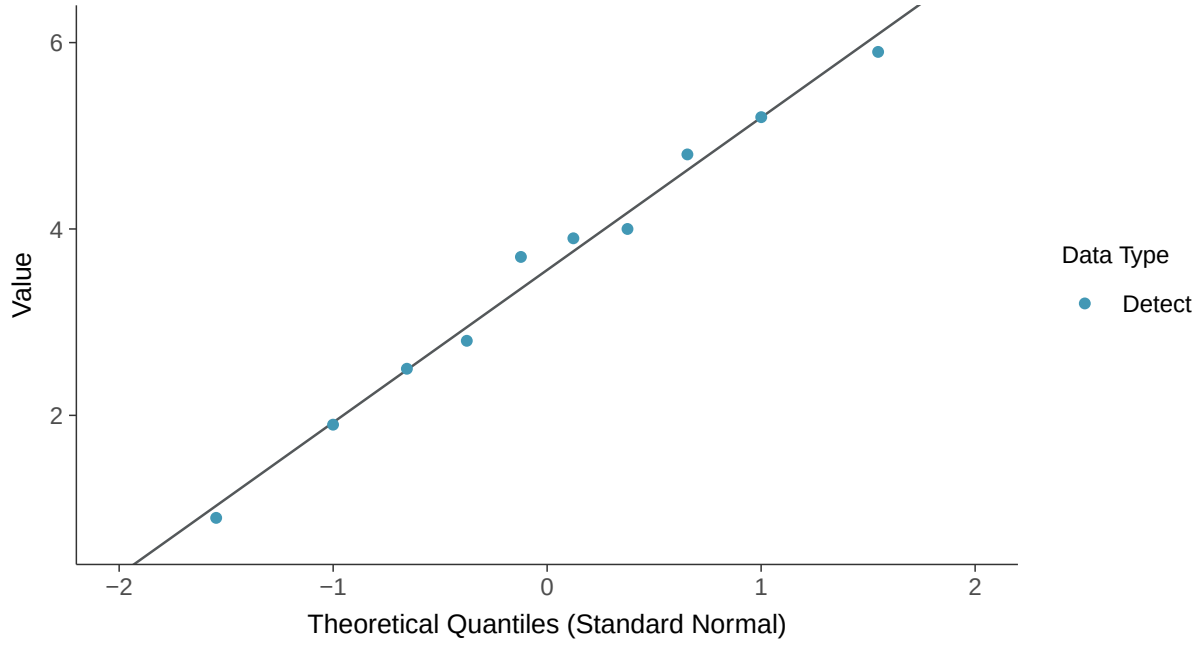
Boxplot by Season

Boron, MW-37 (mg/L)



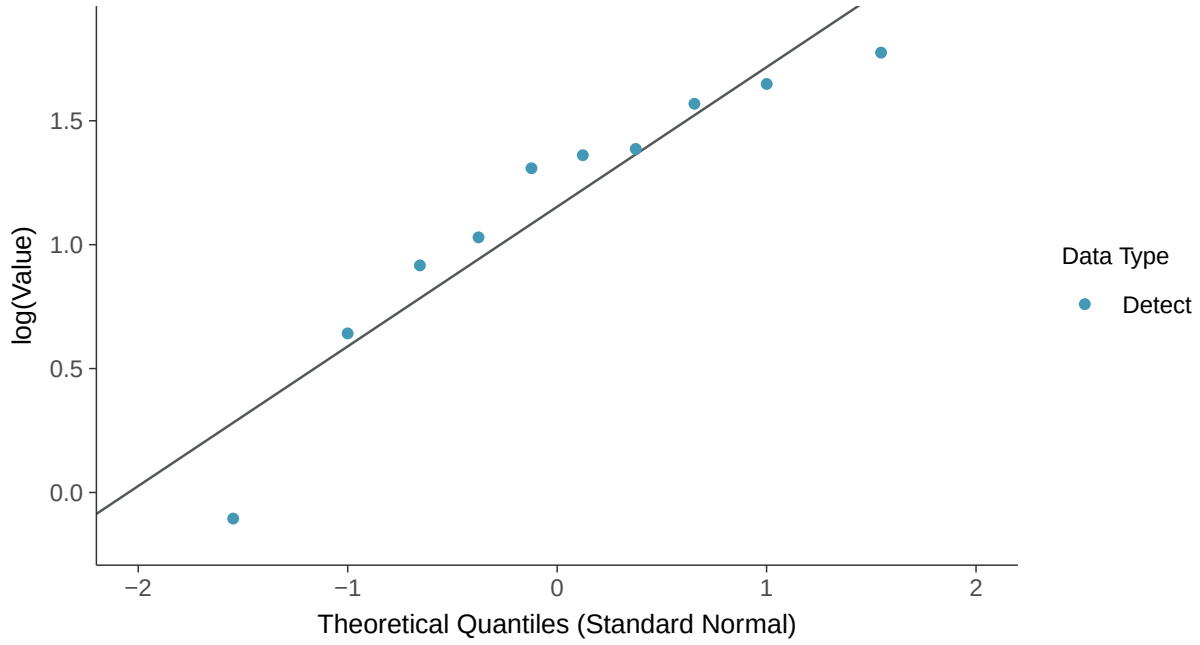
Normal Q-Q plot

Boron, MW-37 (mg/L)



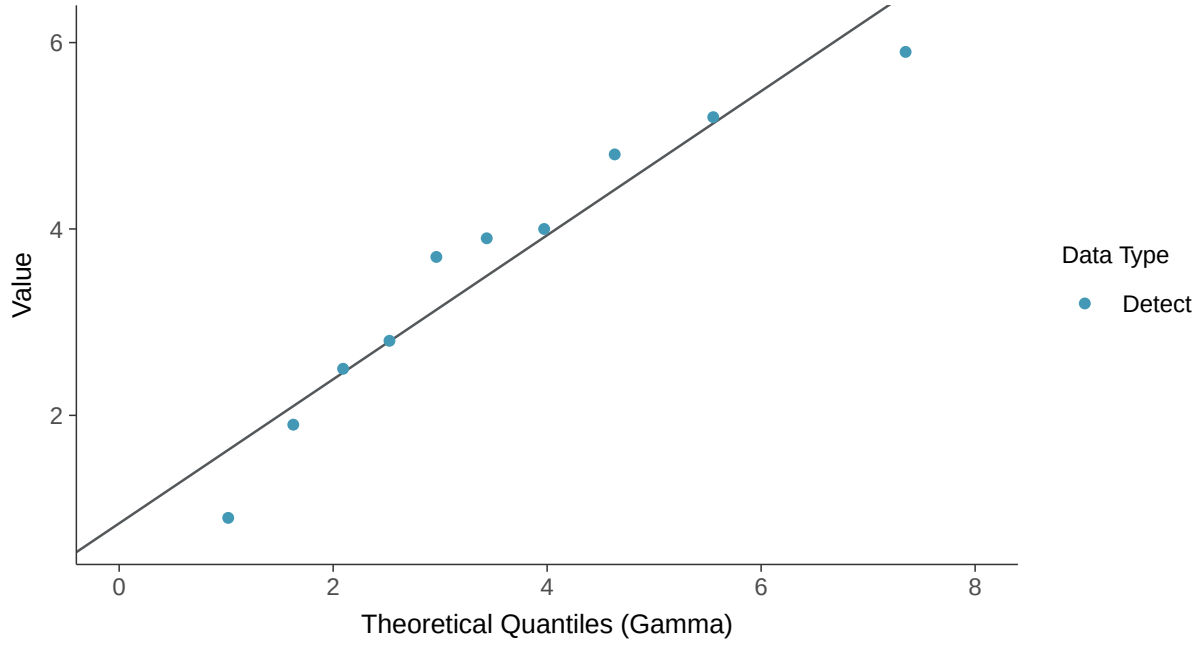
Lognormal Q-Q plot

Boron, MW-37 (mg/L)



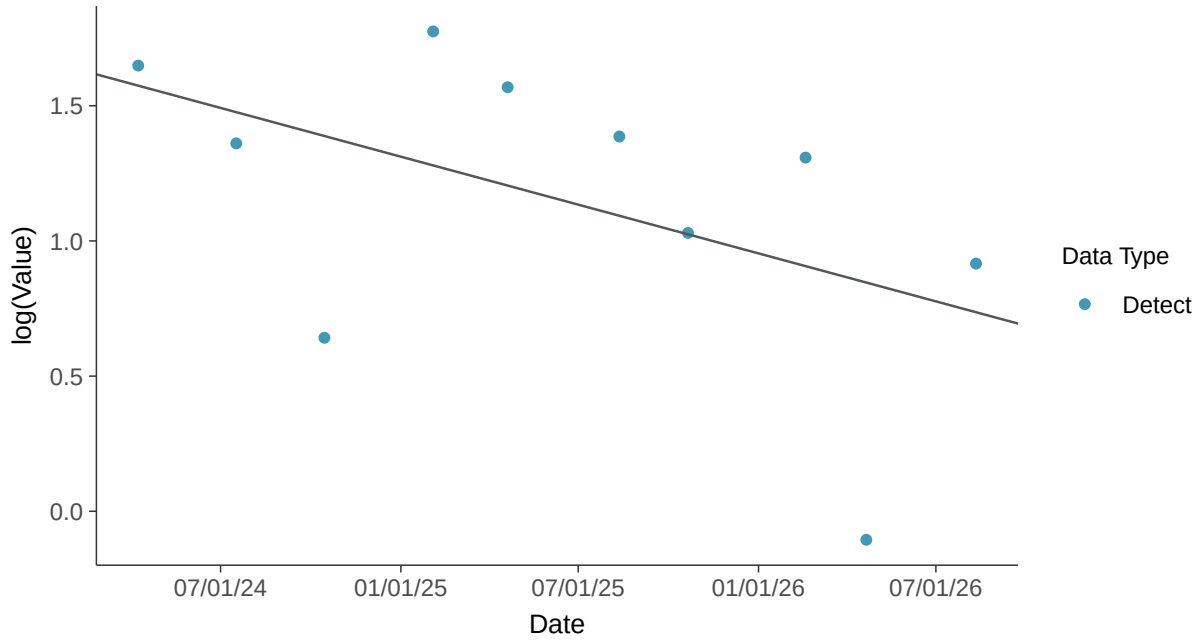
Gamma Q-Q plot

Boron, MW-37 (mg/L)



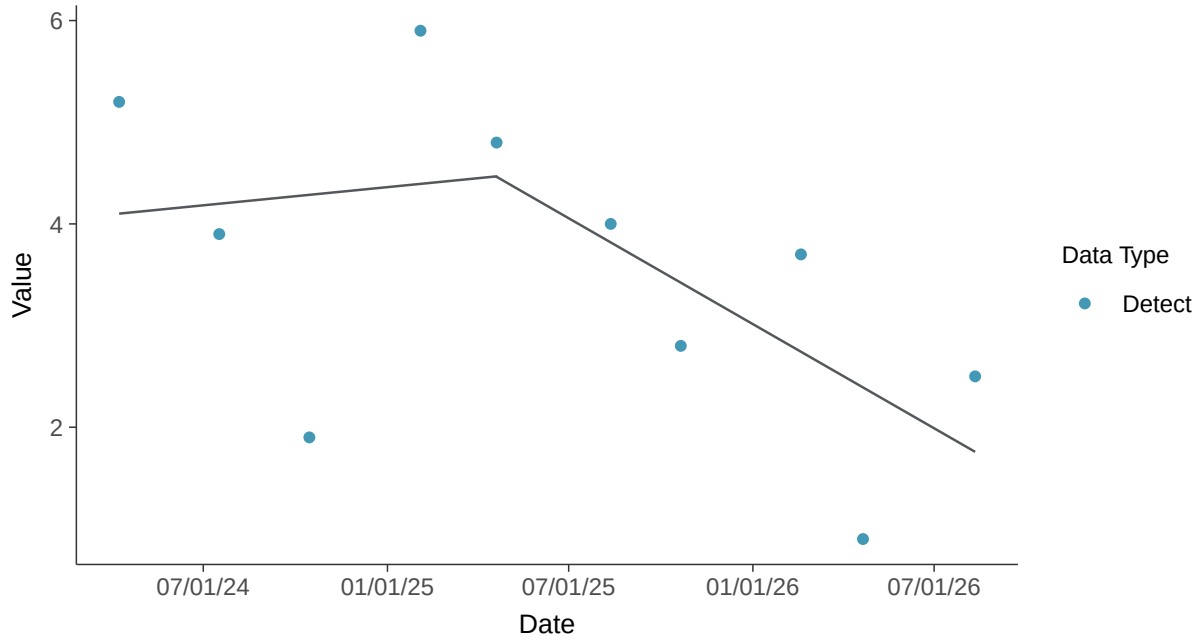
Trend Regression: Lognormal MLE

Boron, MW-37 (mg/L)



Trend Regression: Piecewise Linear-Linear

Boron, MW-37 (mg/L)

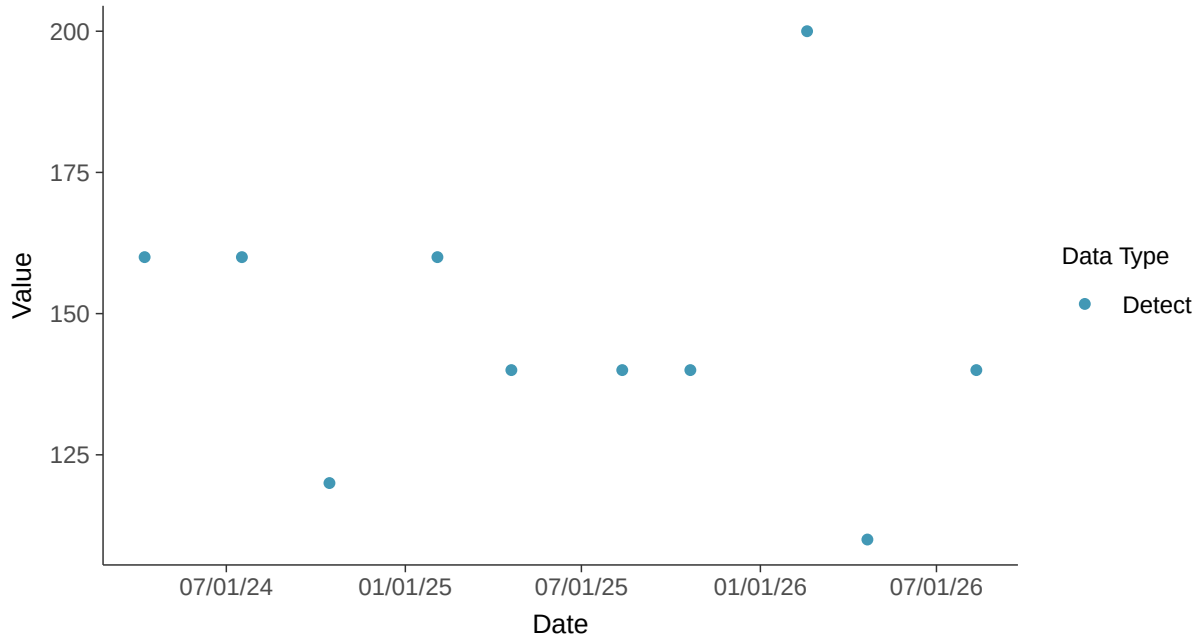


Appendix III: Calcium, MW-37

ID: 47_1_3_107

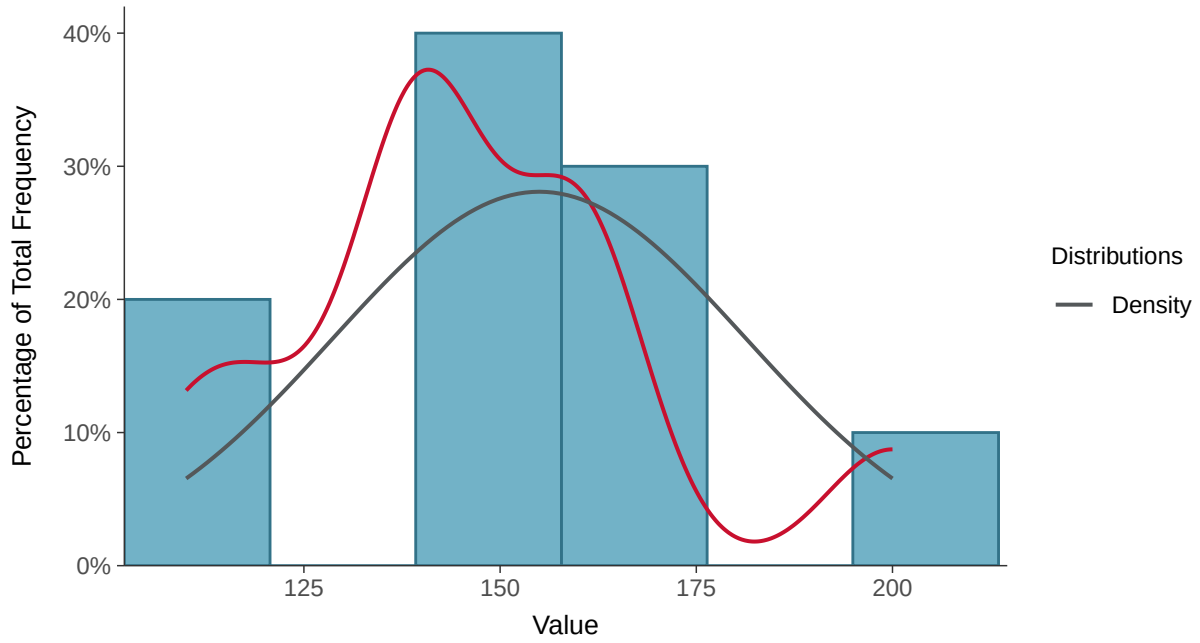
Scatter Plot

Calcium, MW-37 (mg/L)



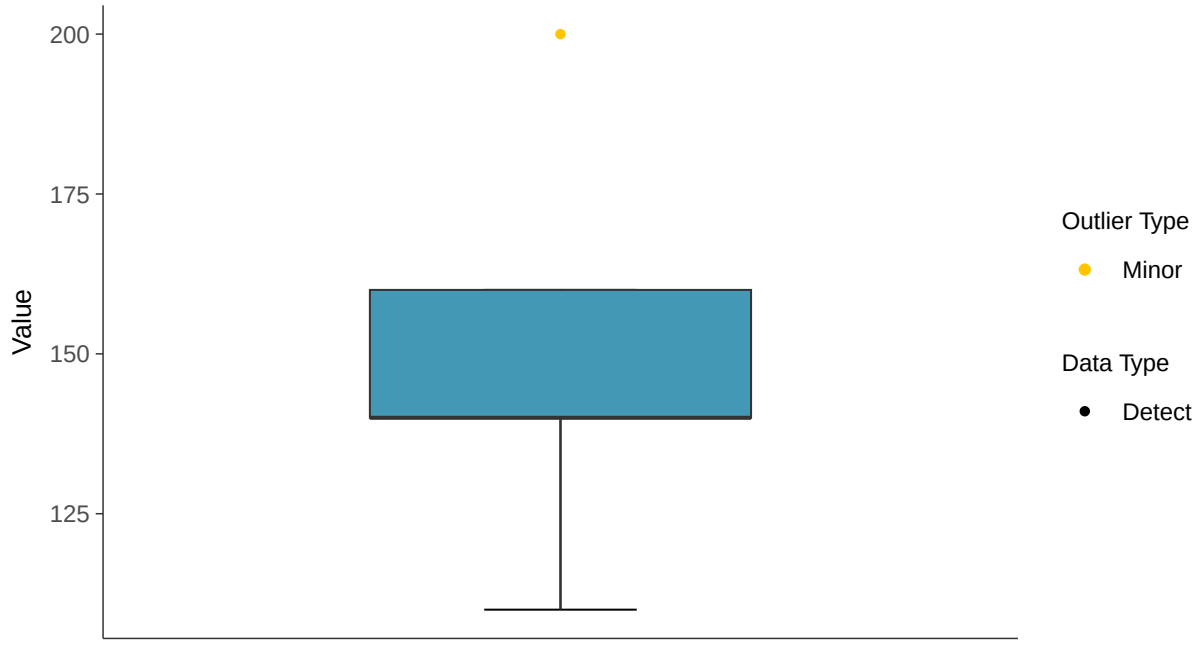
Histogram

Calcium, MW-37 (mg/L)



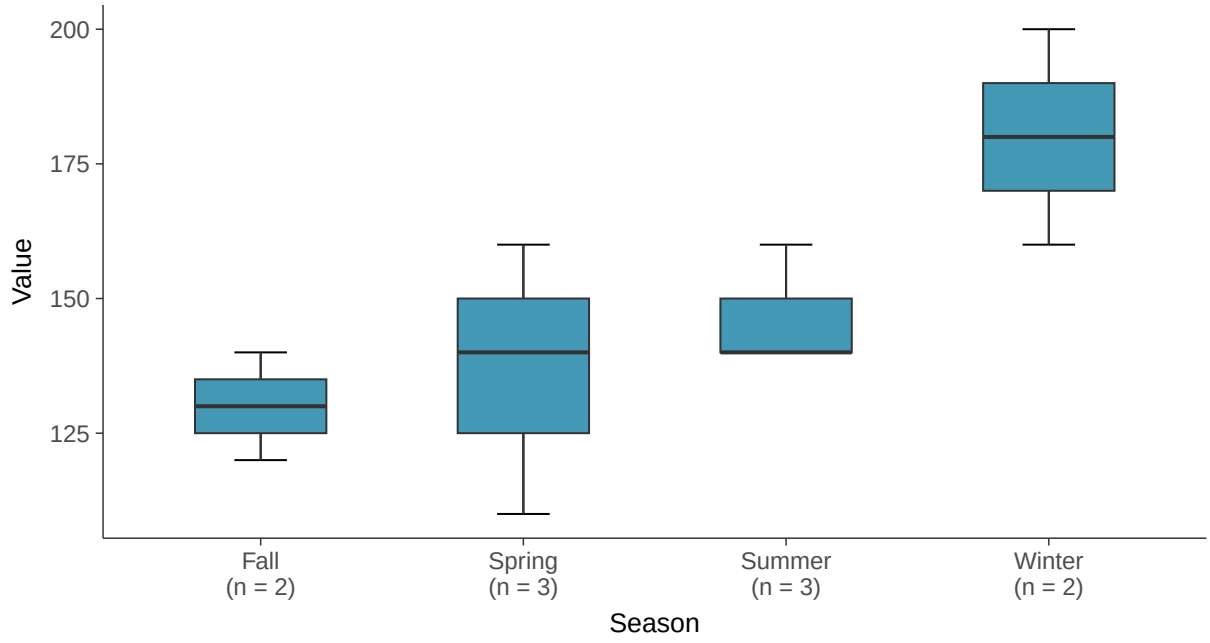
Boxplot

Calcium, MW-37 (mg/L)



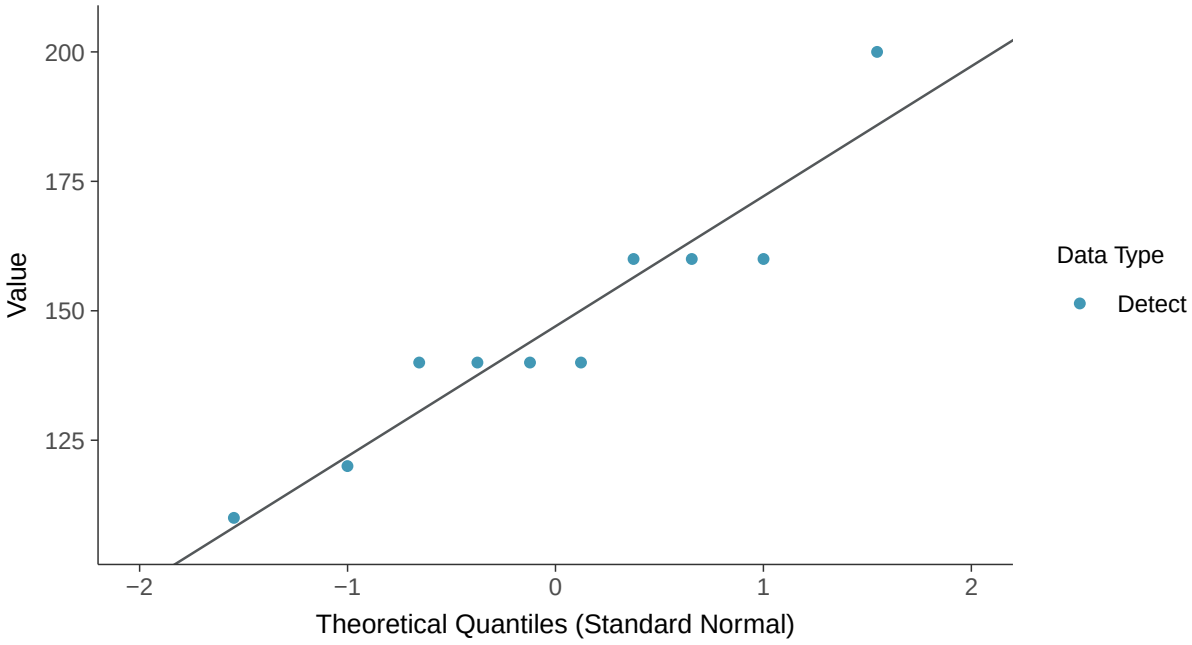
Boxplot by Season

Calcium, MW-37 (mg/L)



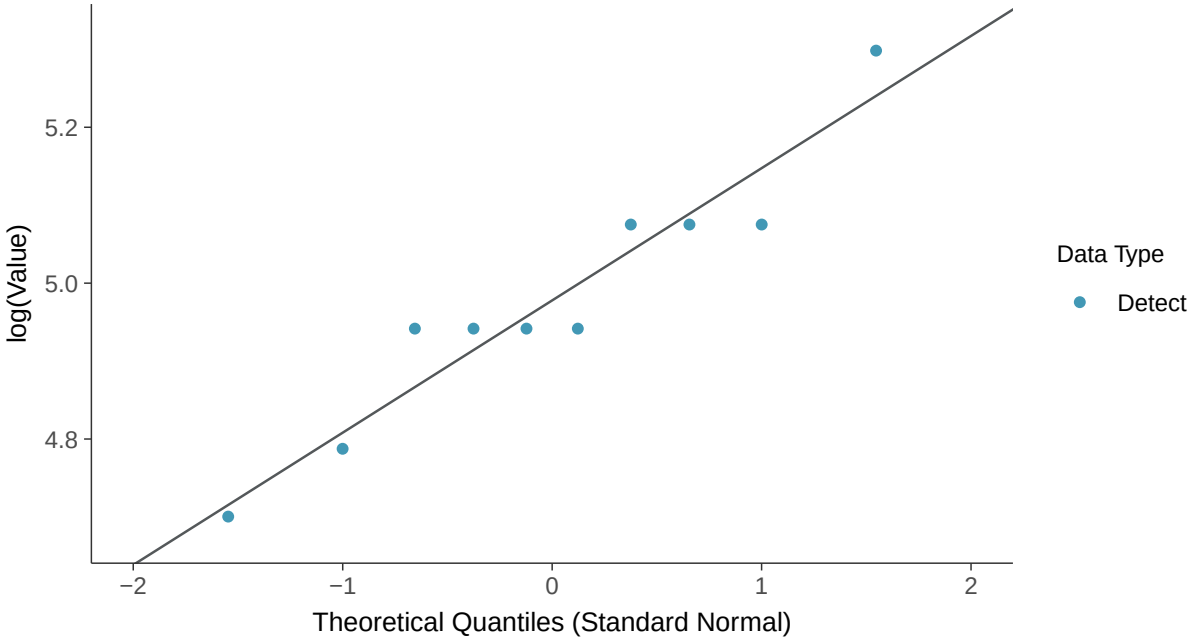
Normal Q-Q plot

Calcium, MW-37 (mg/L)



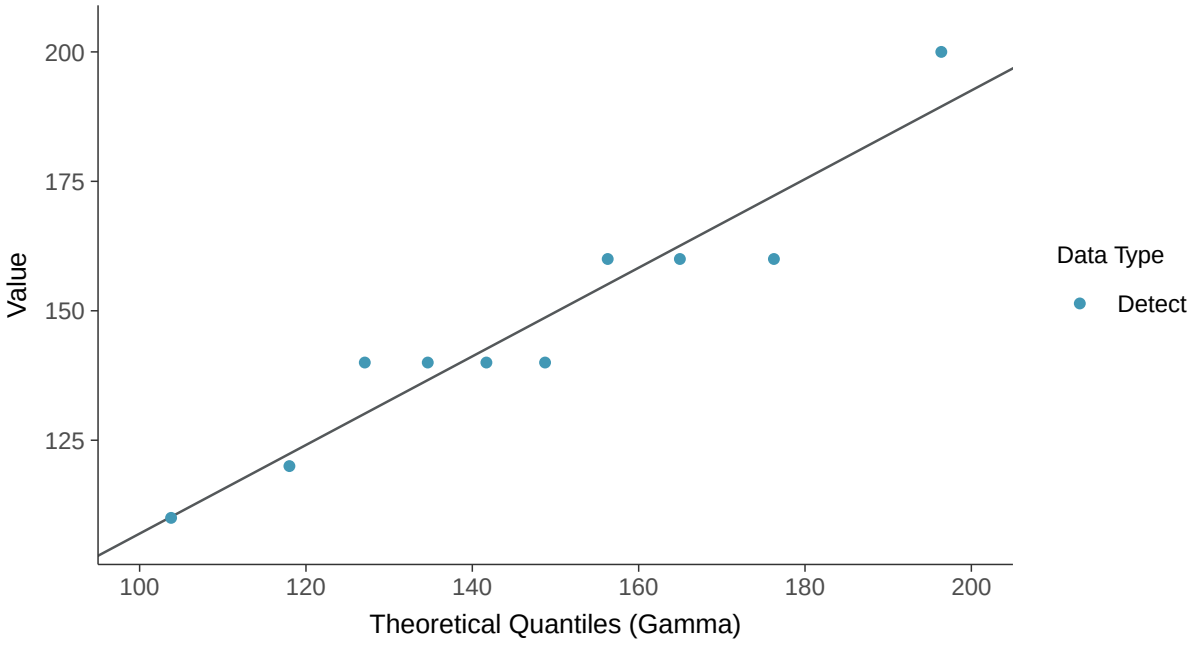
Lognormal Q-Q plot

Calcium, MW-37 (mg/L)



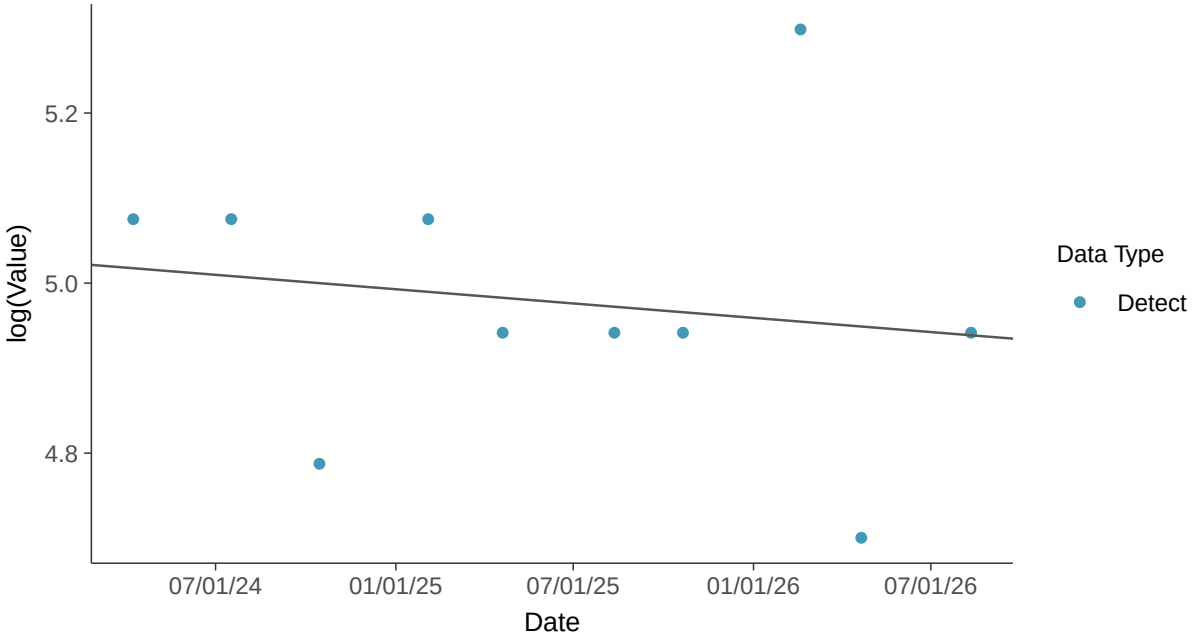
Gamma Q-Q plot

Calcium, MW-37 (mg/L)



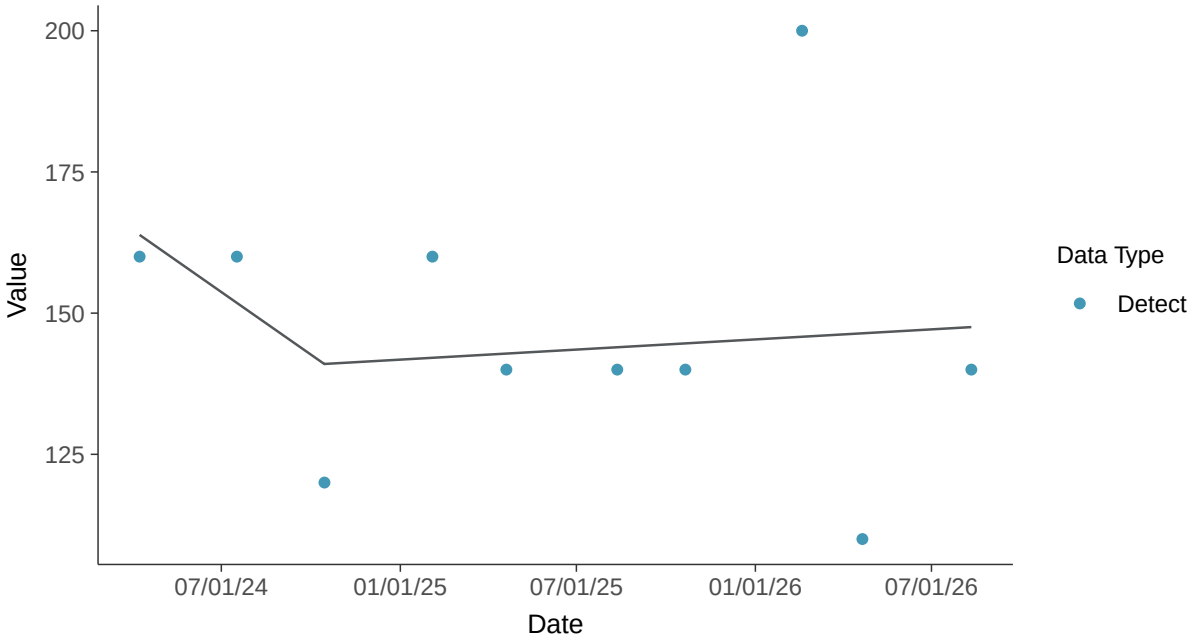
Trend Regression: Lognormal MLE

Calcium, MW-37 (mg/L)



Trend Regression: Piecewise Linear-Linear

Calcium, MW-37 (mg/L)

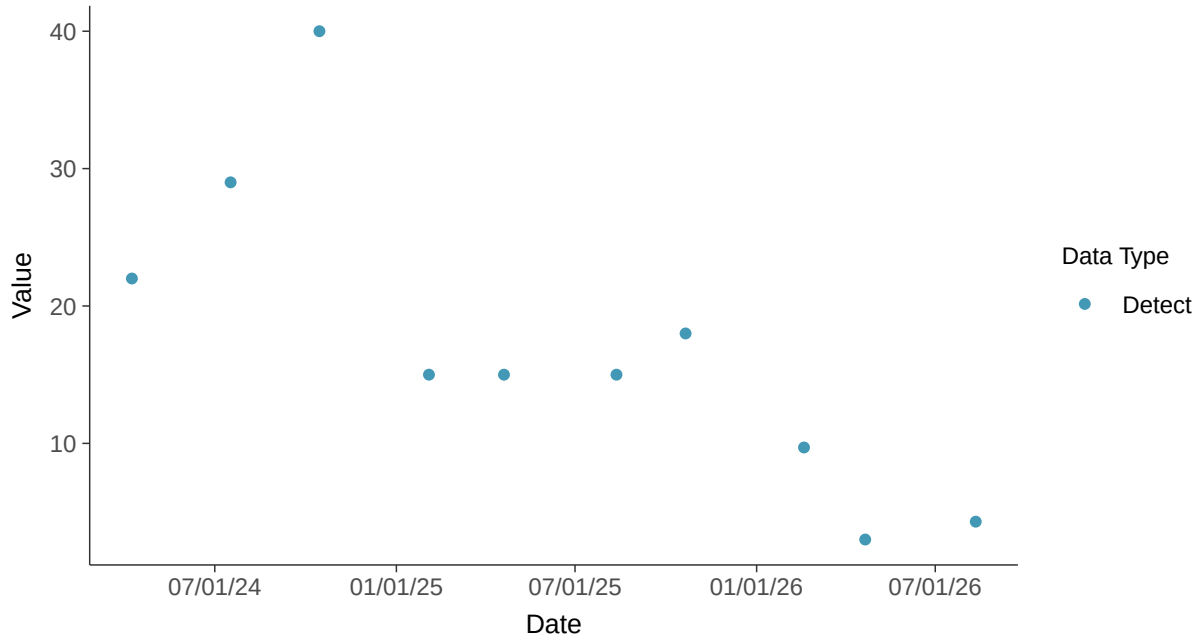


Appendix III: Chloride (as Cl), MW-37

ID: 47_1_3_108

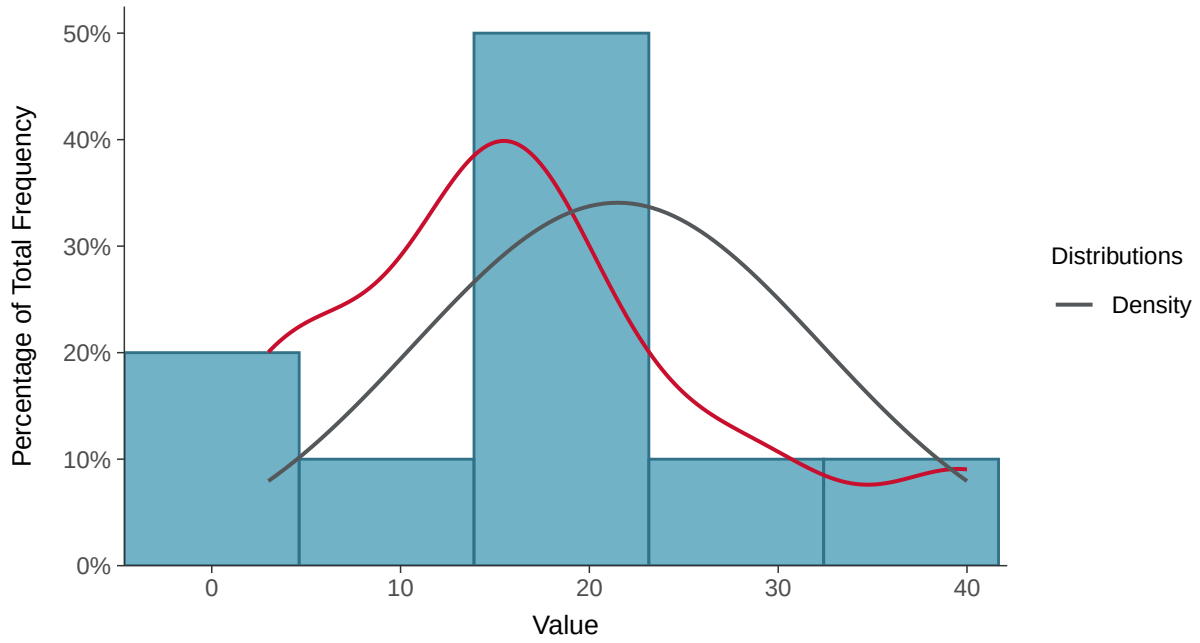
Scatter Plot

Chloride (as Cl), MW-37 (mg/L)



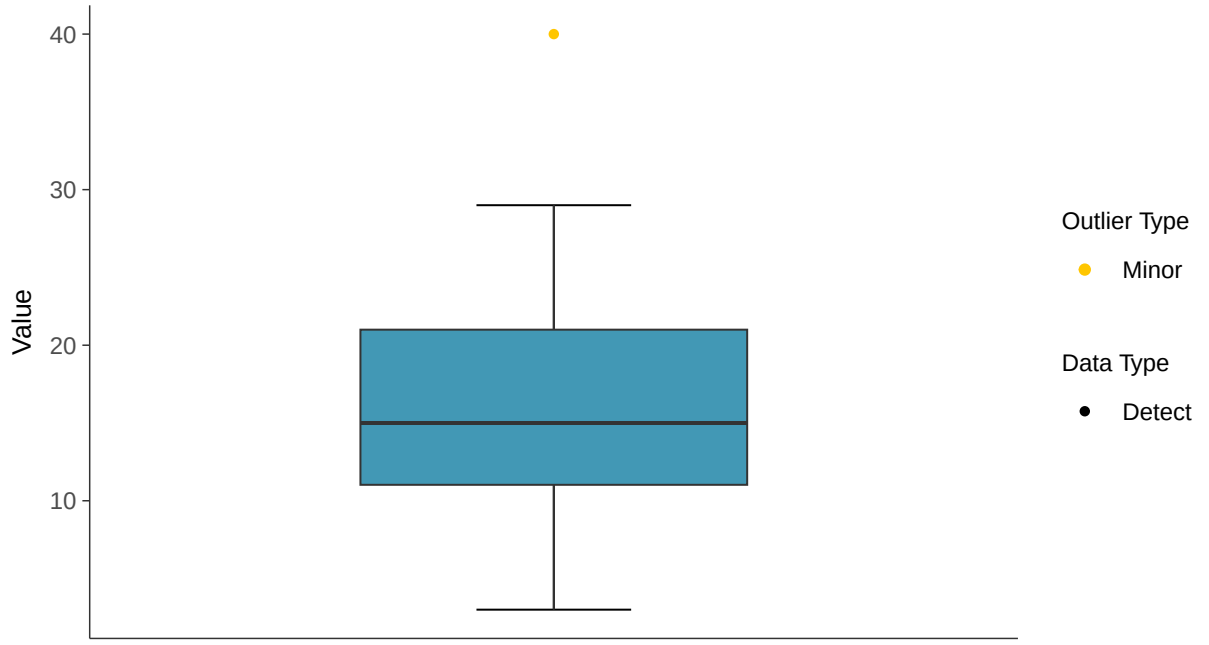
Histogram

Chloride (as Cl), MW-37 (mg/L)



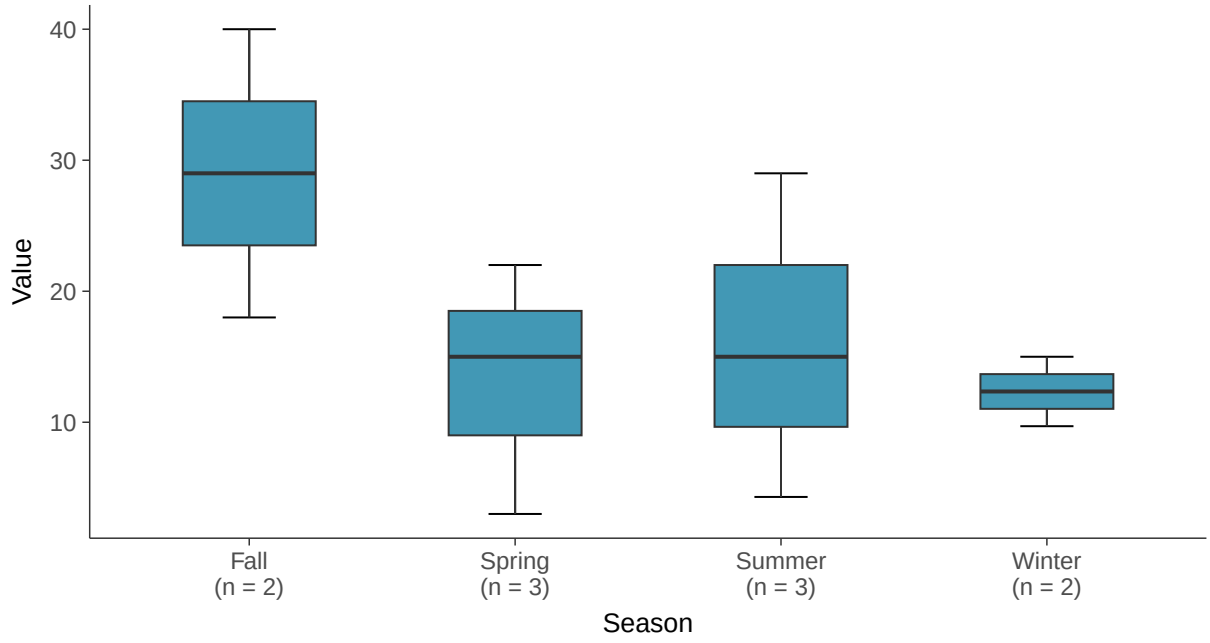
Boxplot

Chloride (as Cl), MW-37 (mg/L)



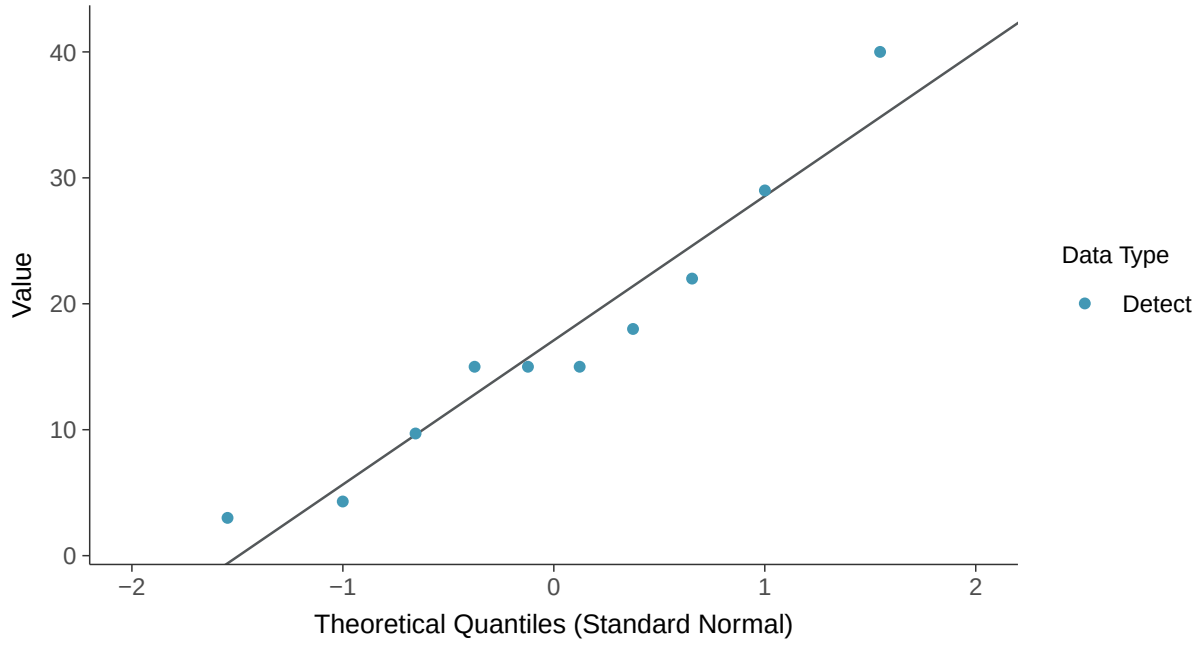
Boxplot by Season

Chloride (as Cl), MW-37 (mg/L)



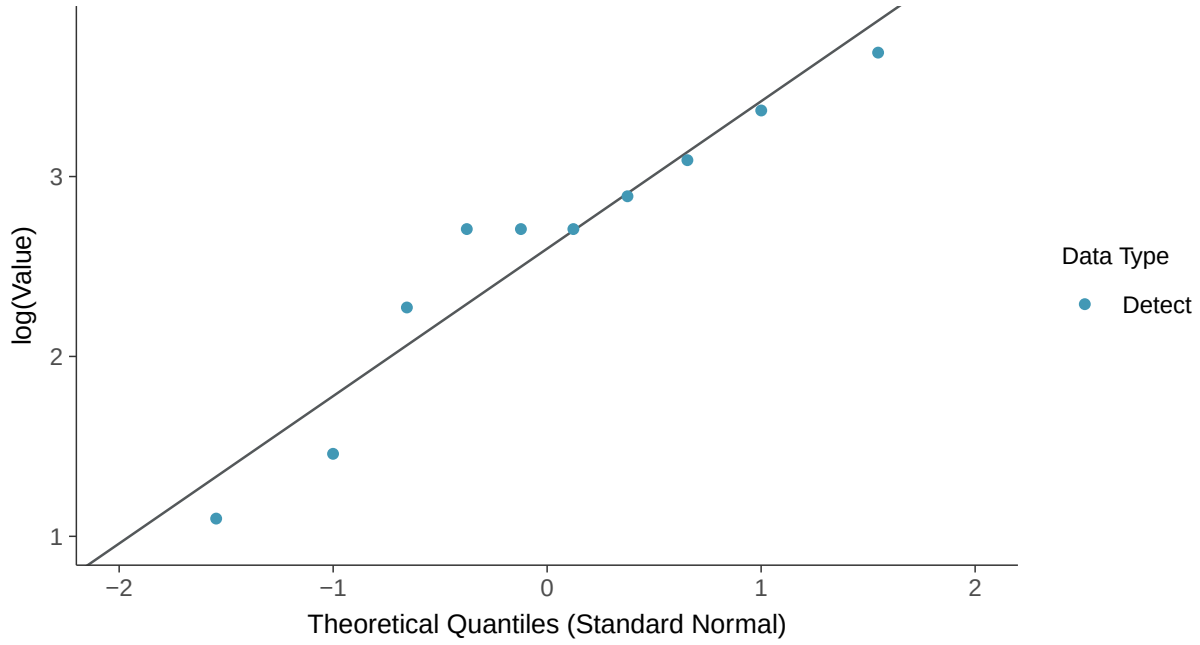
Normal Q-Q plot

Chloride (as Cl), MW-37 (mg/L)



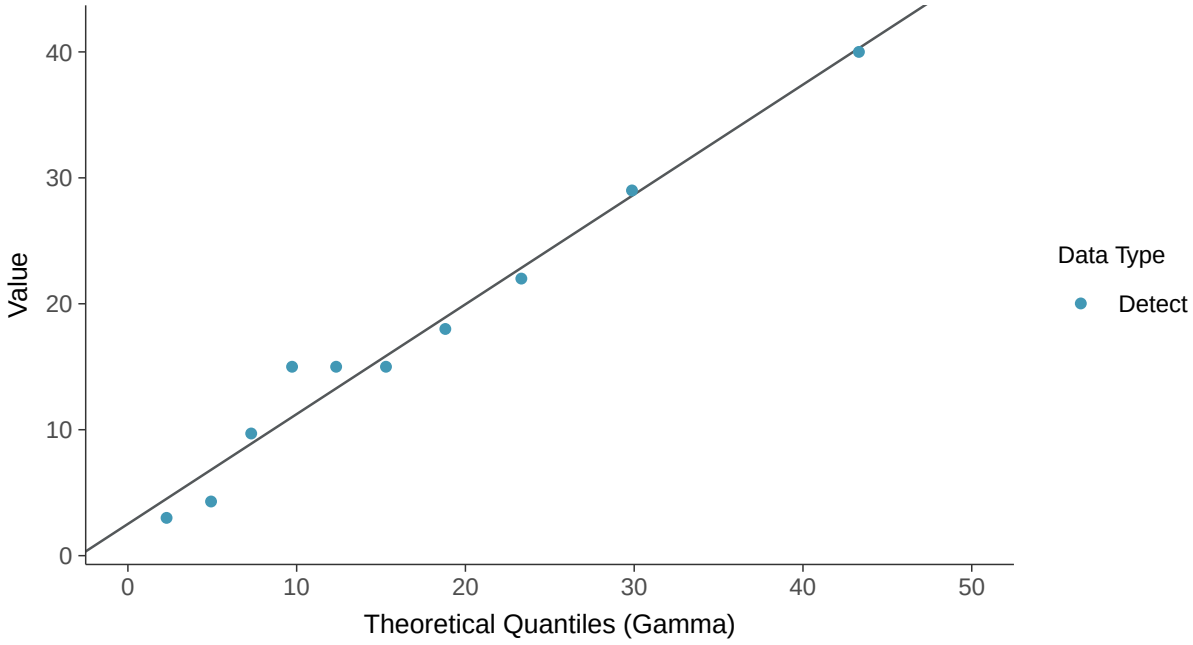
Lognormal Q-Q plot

Chloride (as Cl), MW-37 (mg/L)



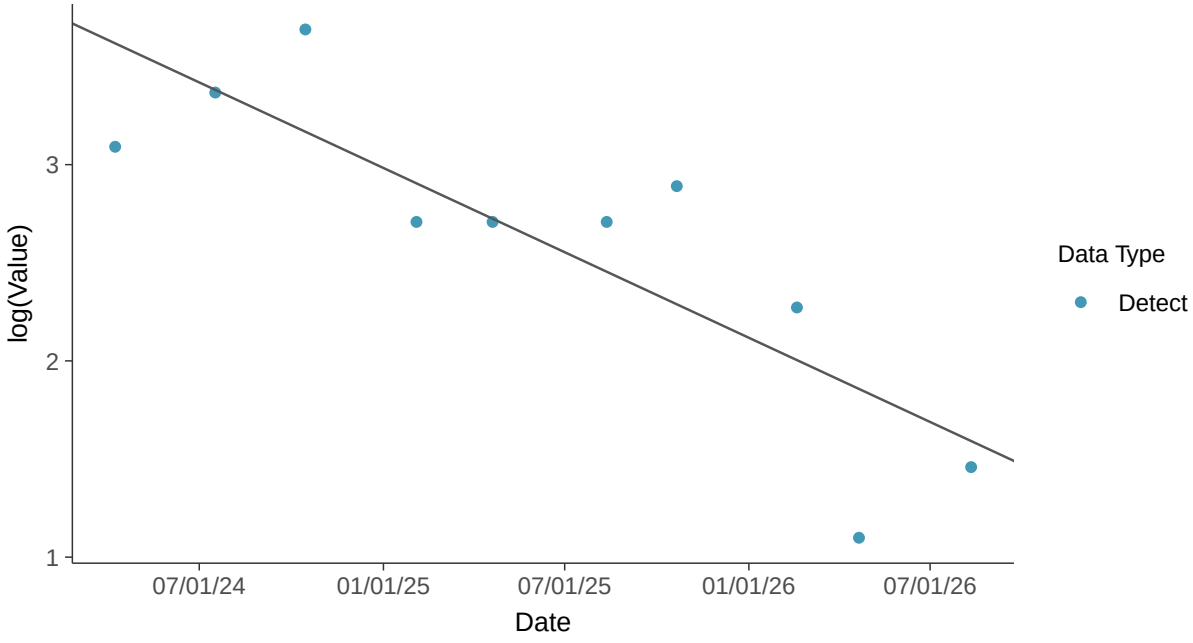
Gamma Q-Q plot

Chloride (as Cl), MW-37 (mg/L)



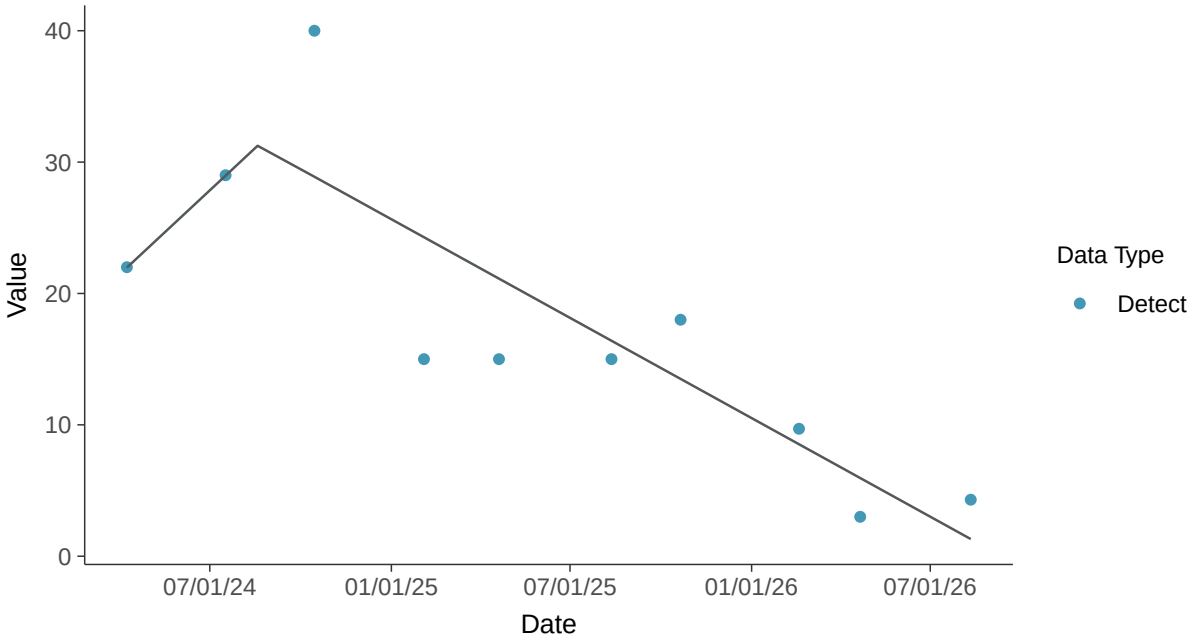
Trend Regression: Lognormal MLE

Chloride (as Cl), MW-37 (mg/L)



Trend Regression: Piecewise Linear-Linear

Chloride (as Cl), MW-37 (mg/L)

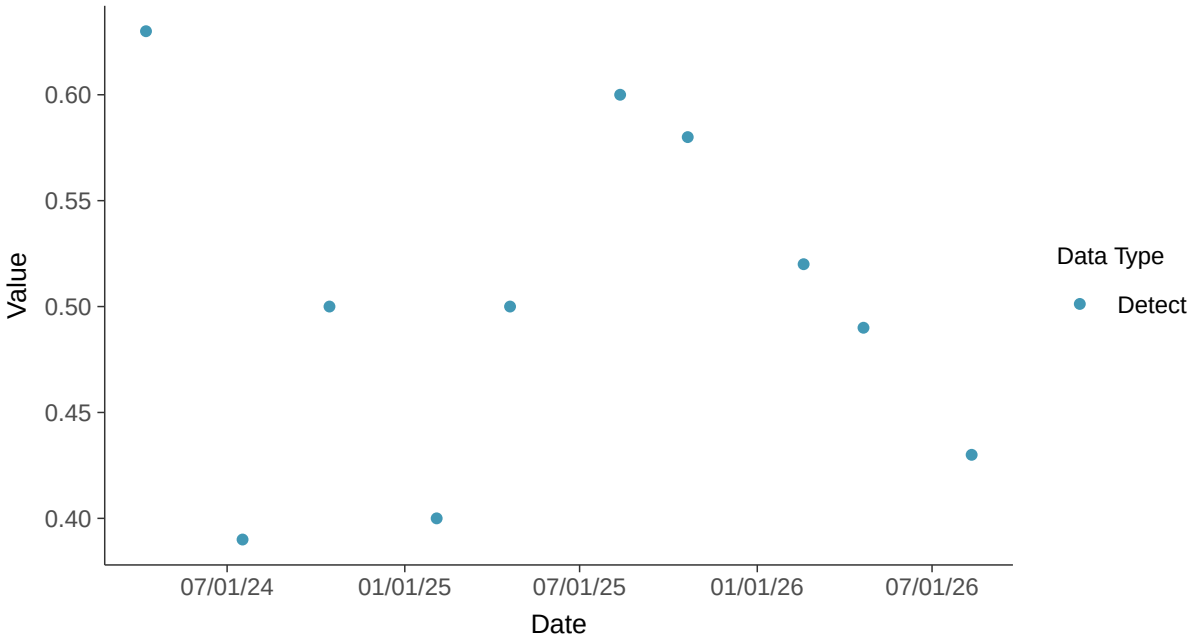


Appendix III: Fluoride, MW-37

ID: 47_1_3_112

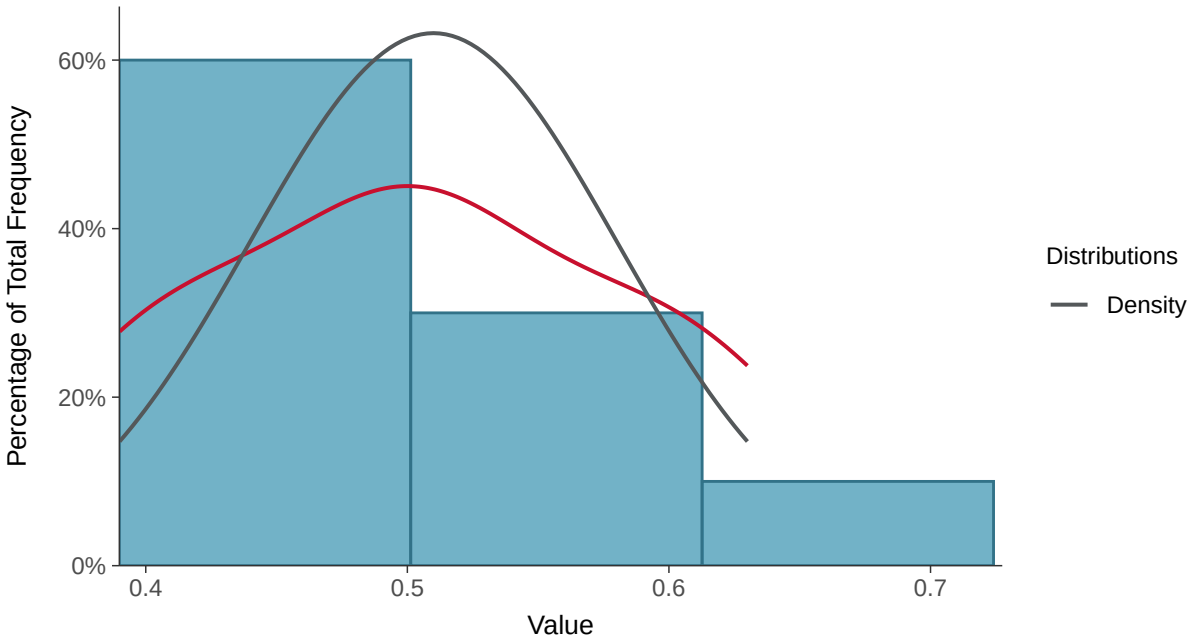
Scatter Plot

Fluoride, MW-37 (mg/L)



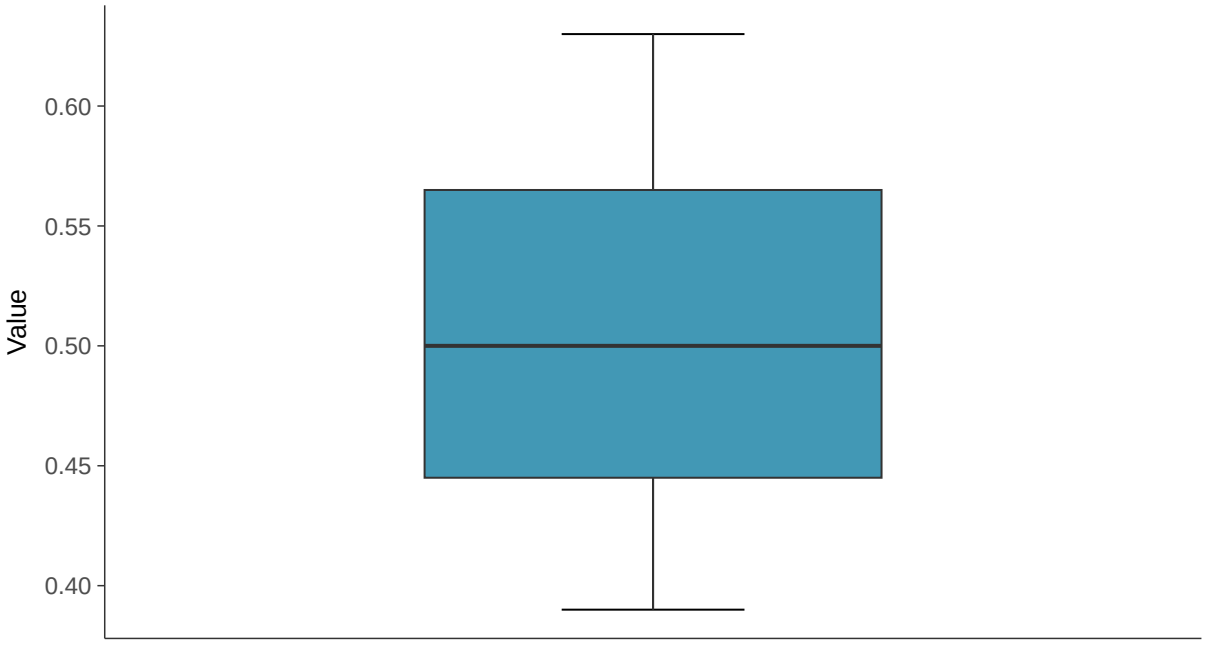
Histogram

Fluoride, MW-37 (mg/L)



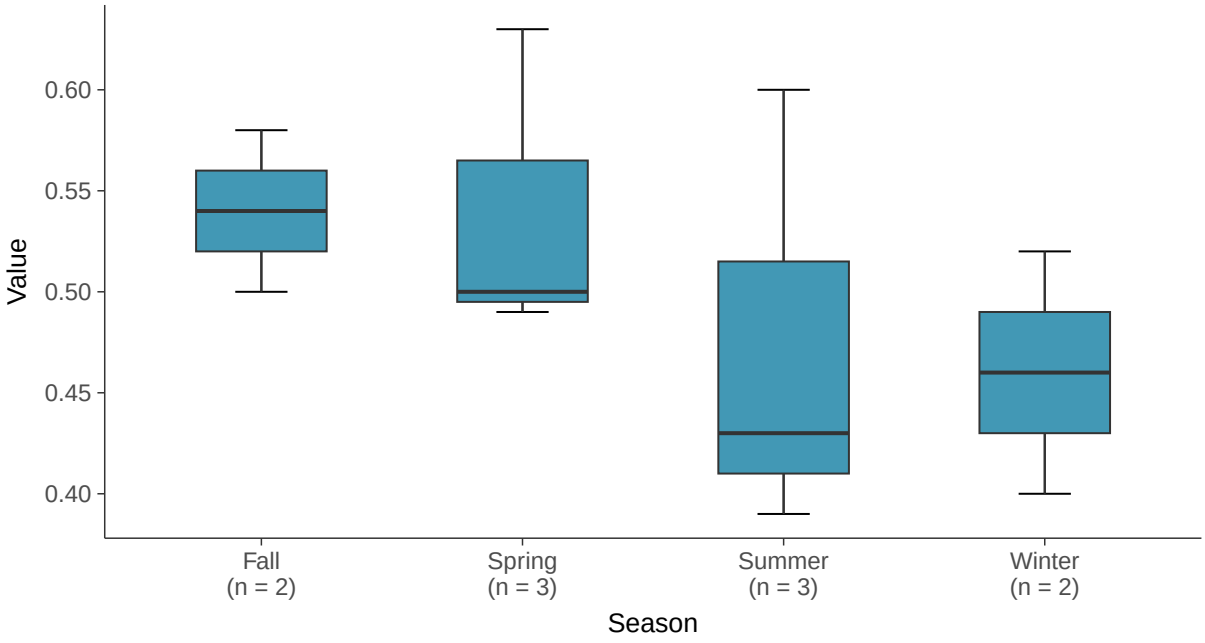
Boxplot

Fluoride, MW-37 (mg/L)



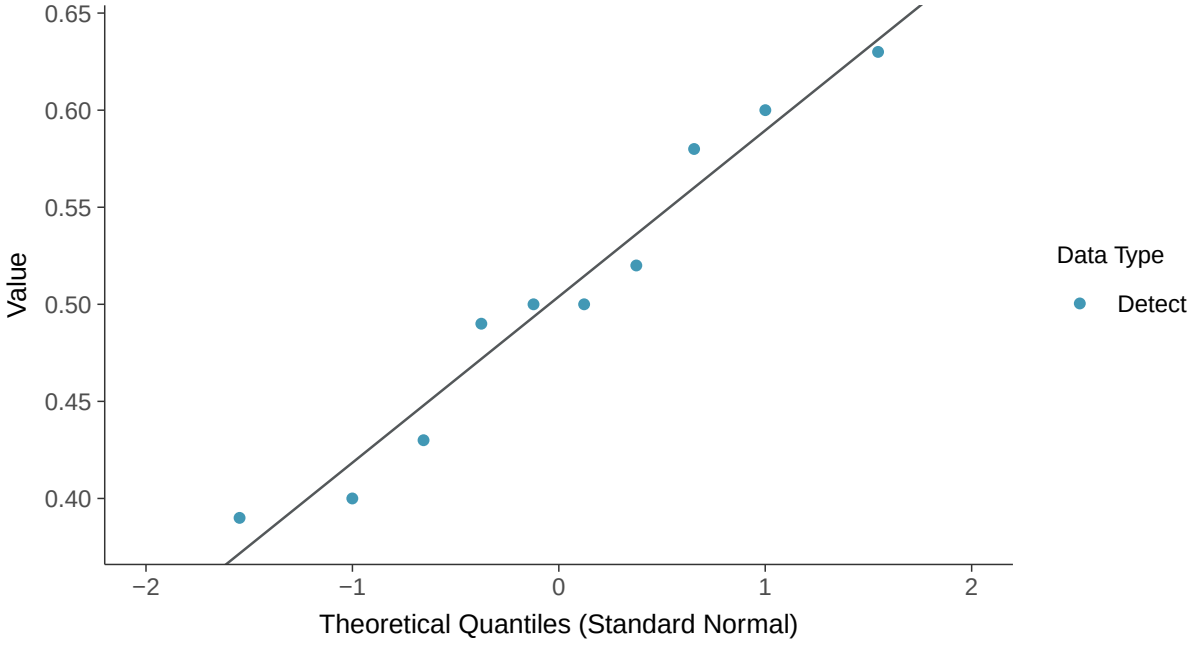
Boxplot by Season

Fluoride, MW-37 (mg/L)



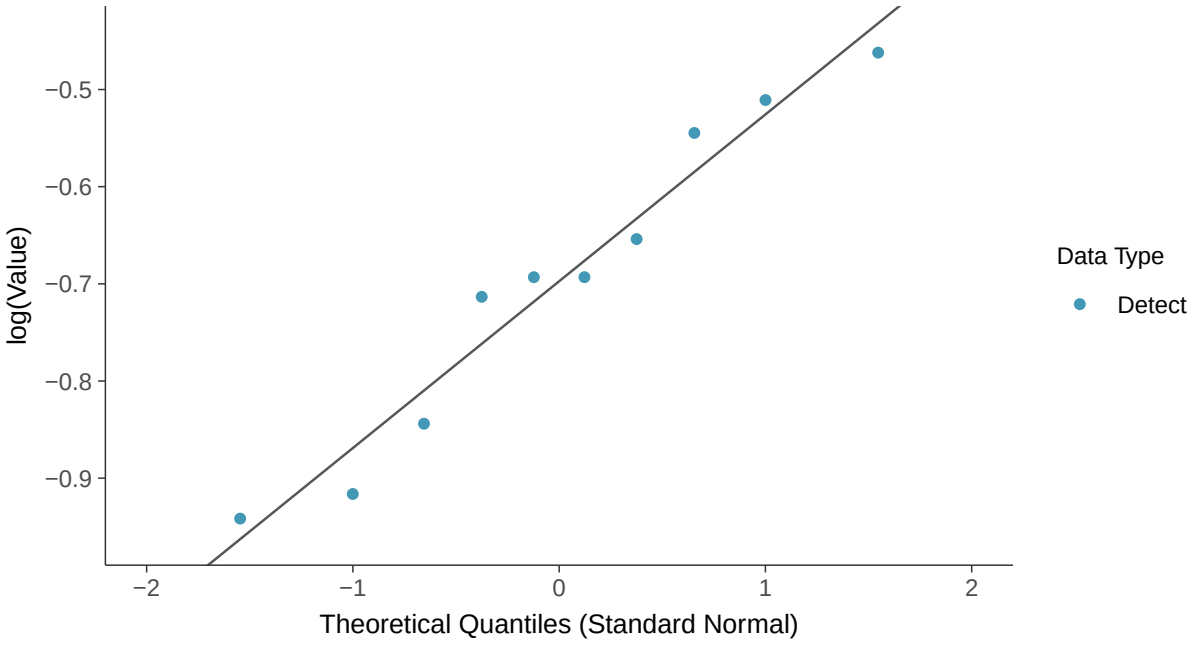
Normal Q-Q plot

Fluoride, MW-37 (mg/L)



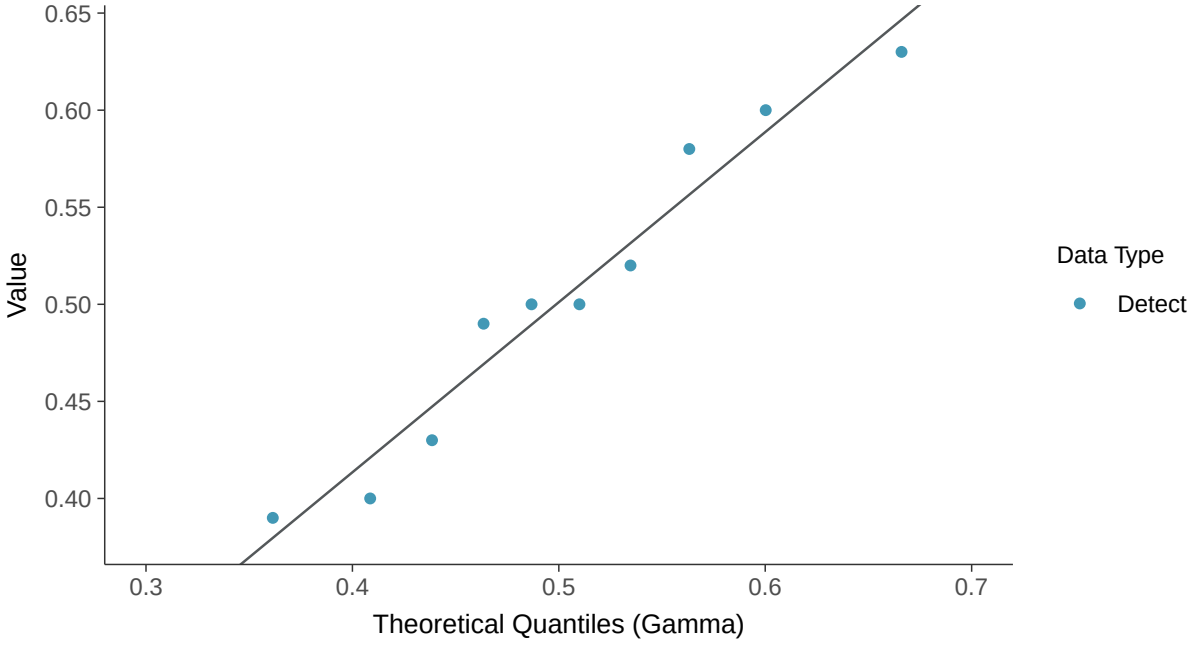
Lognormal Q-Q plot

Fluoride, MW-37 (mg/L)



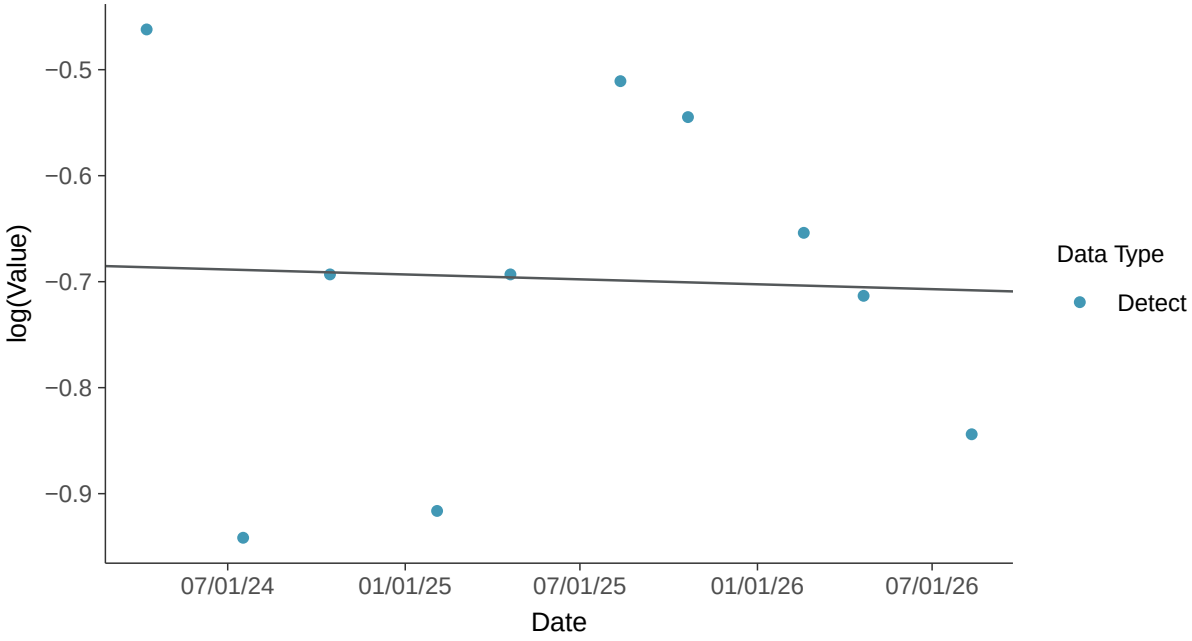
Gamma Q-Q plot

Fluoride, MW-37 (mg/L)



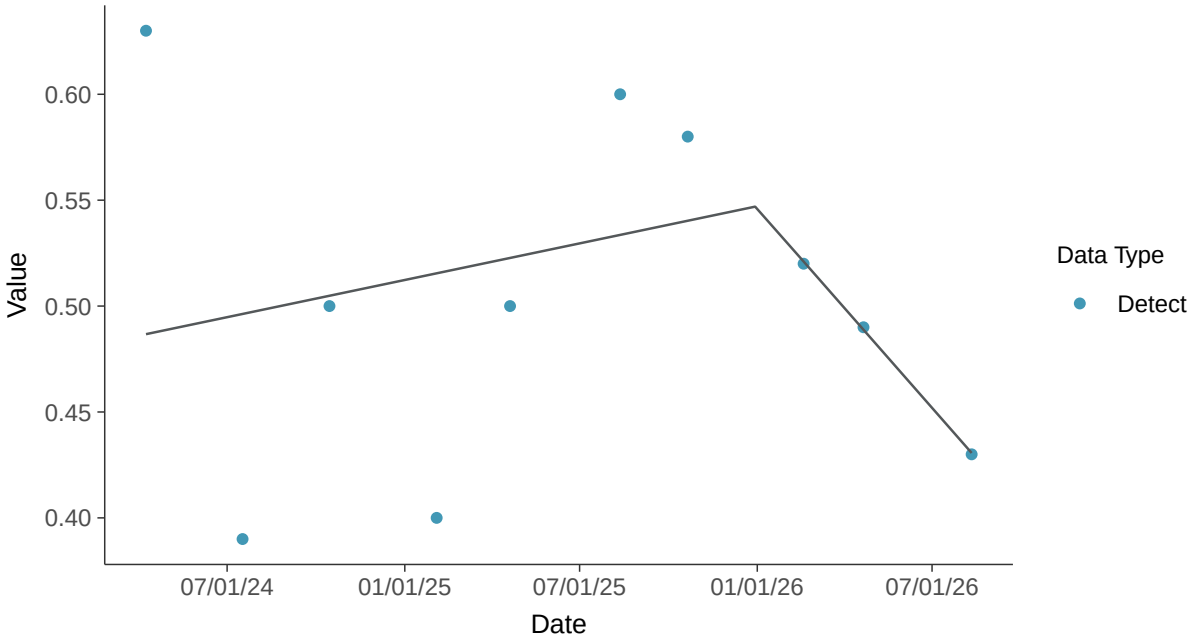
Trend Regression: Lognormal MLE

Fluoride, MW-37 (mg/L)



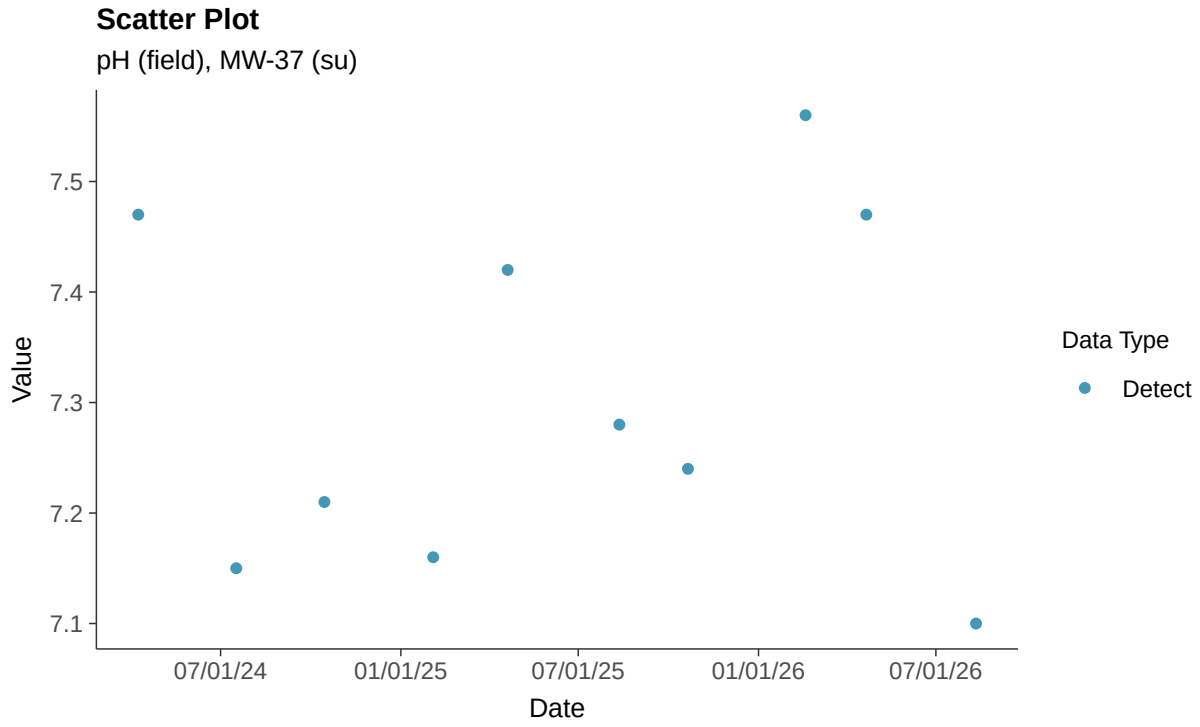
Trend Regression: Piecewise Linear-Linear

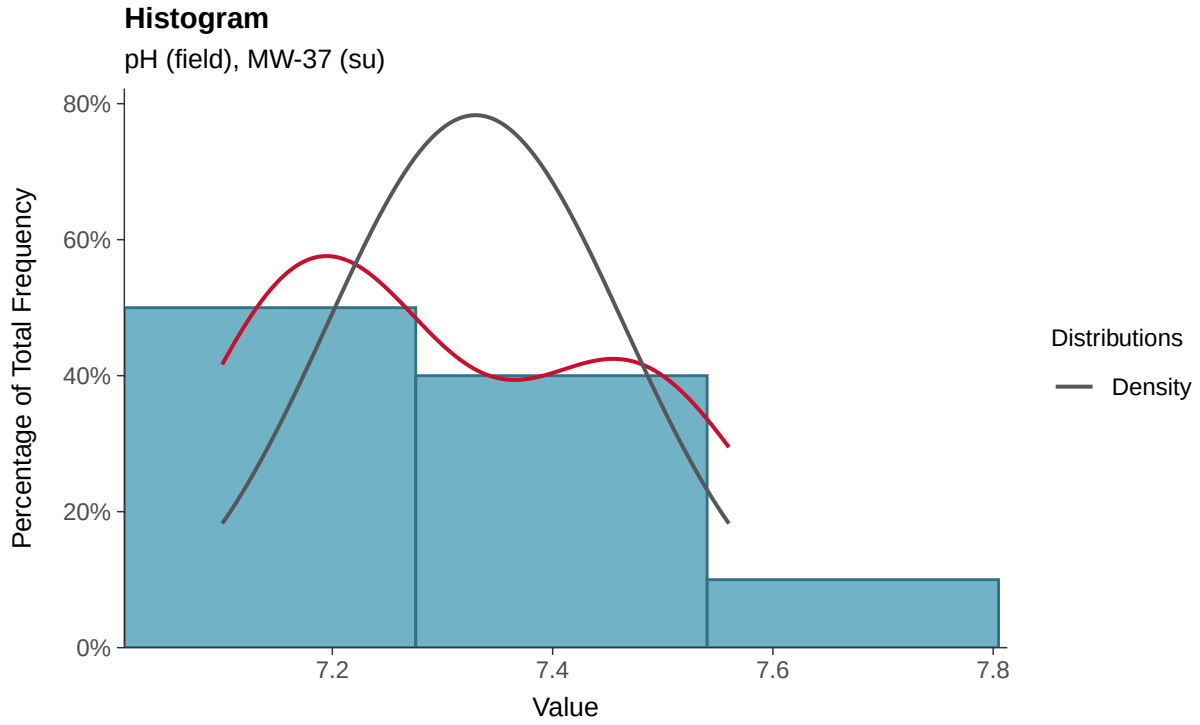
Fluoride, MW-37 (mg/L)



Appendix III: pH (field), MW-37

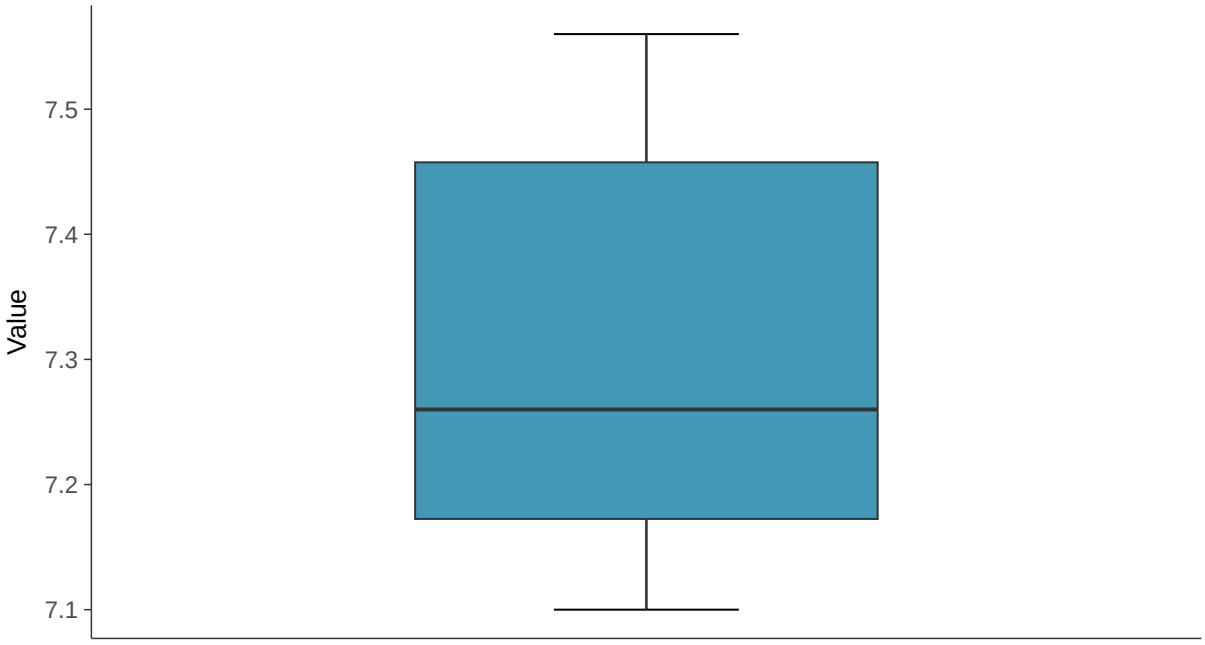
ID: 47_1_3_120





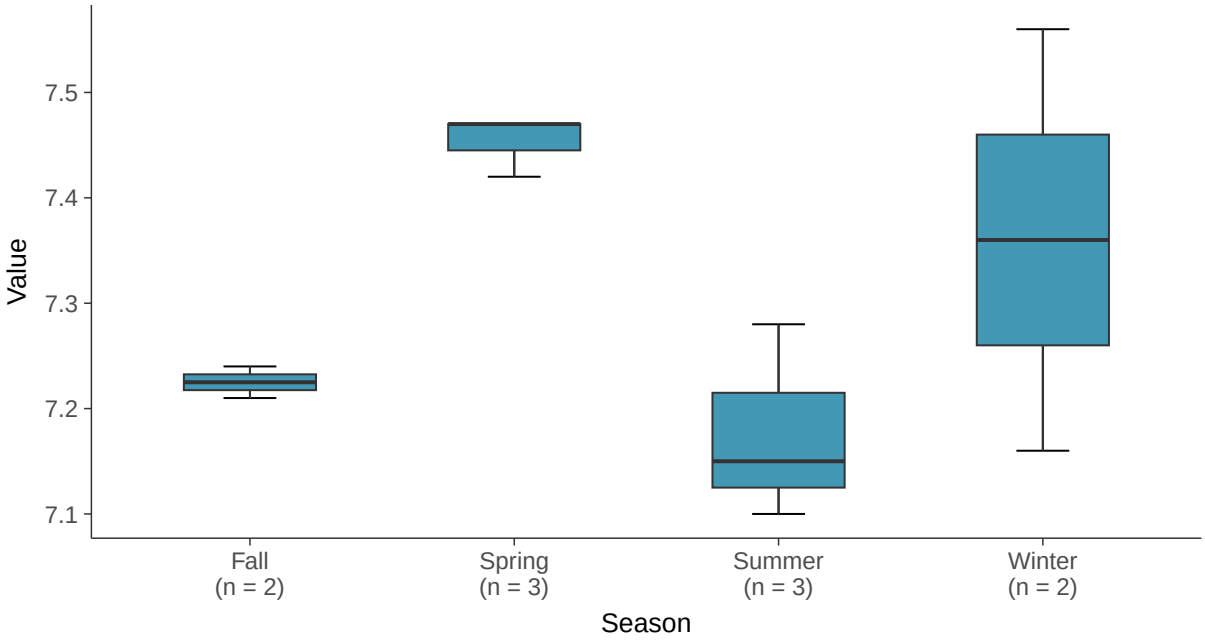
Boxplot

pH (field), MW-37 (su)



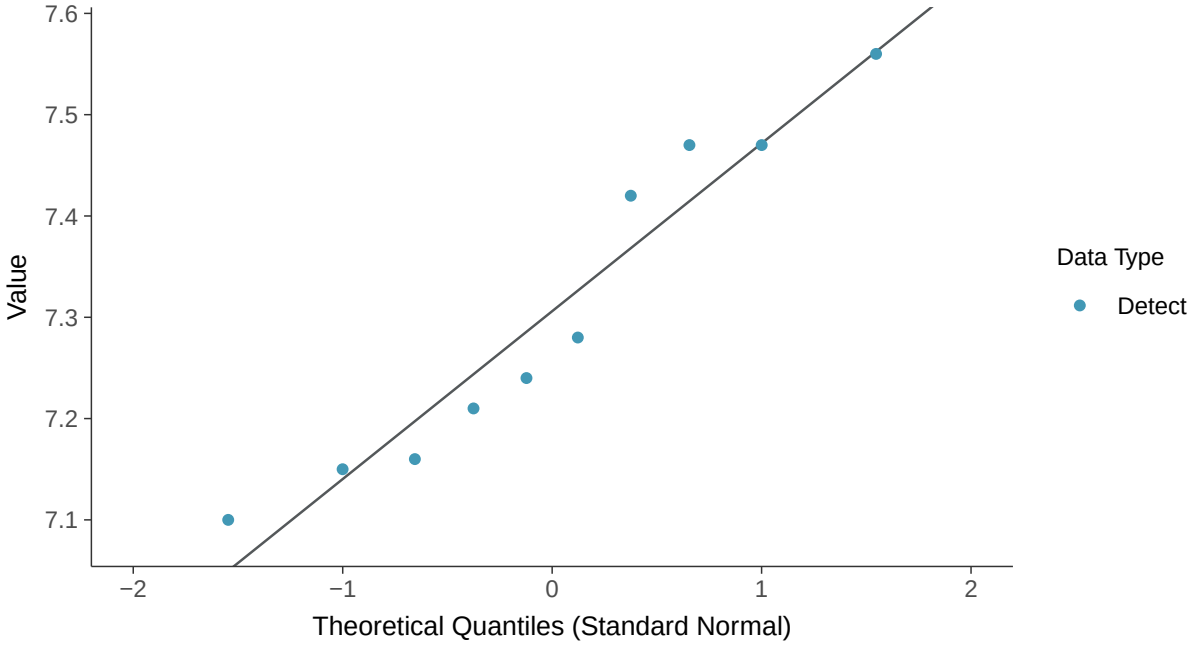
Boxplot by Season

pH (field), MW-37 (su)



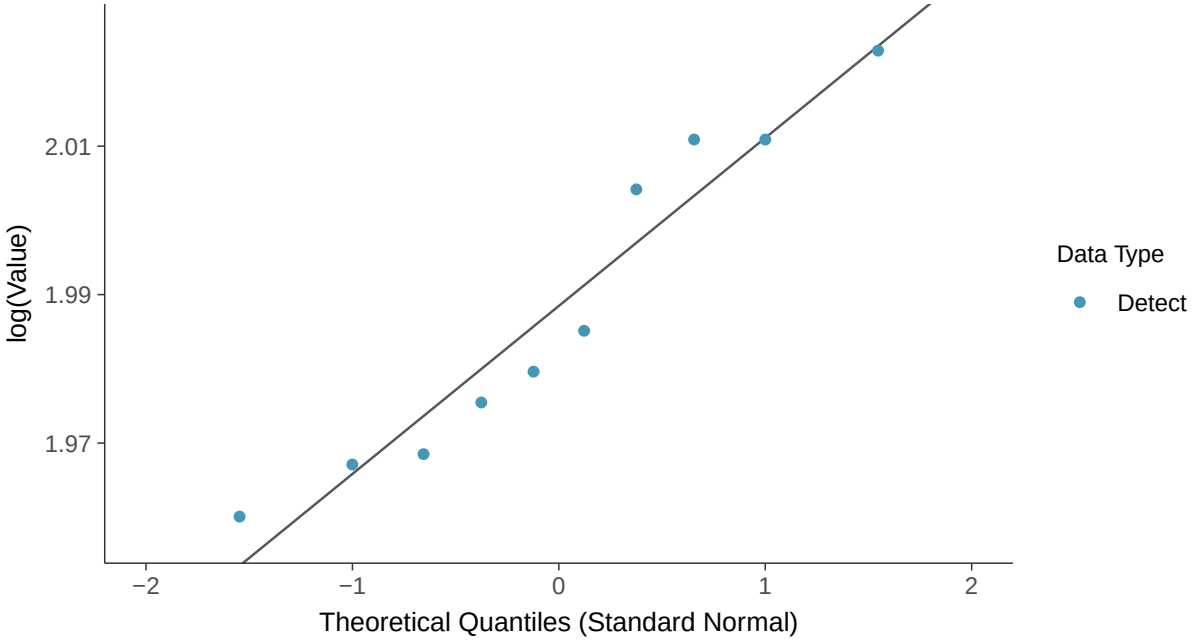
Normal Q-Q plot

pH (field), MW-37 (su)



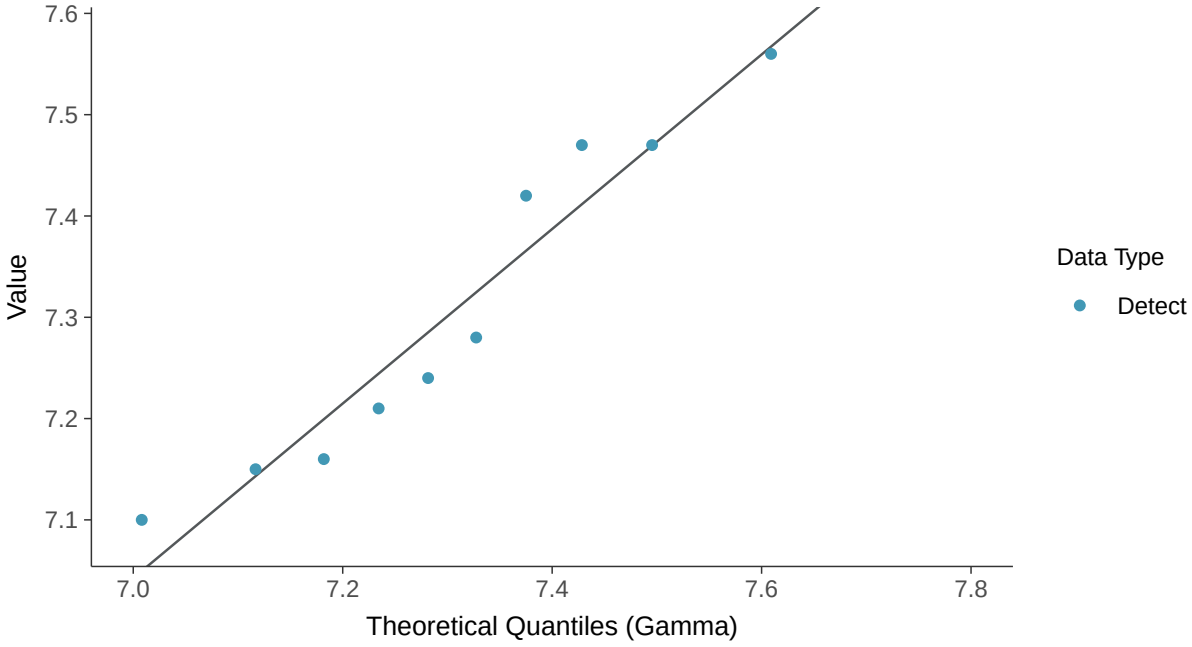
Lognormal Q-Q plot

pH (field), MW-37 (su)



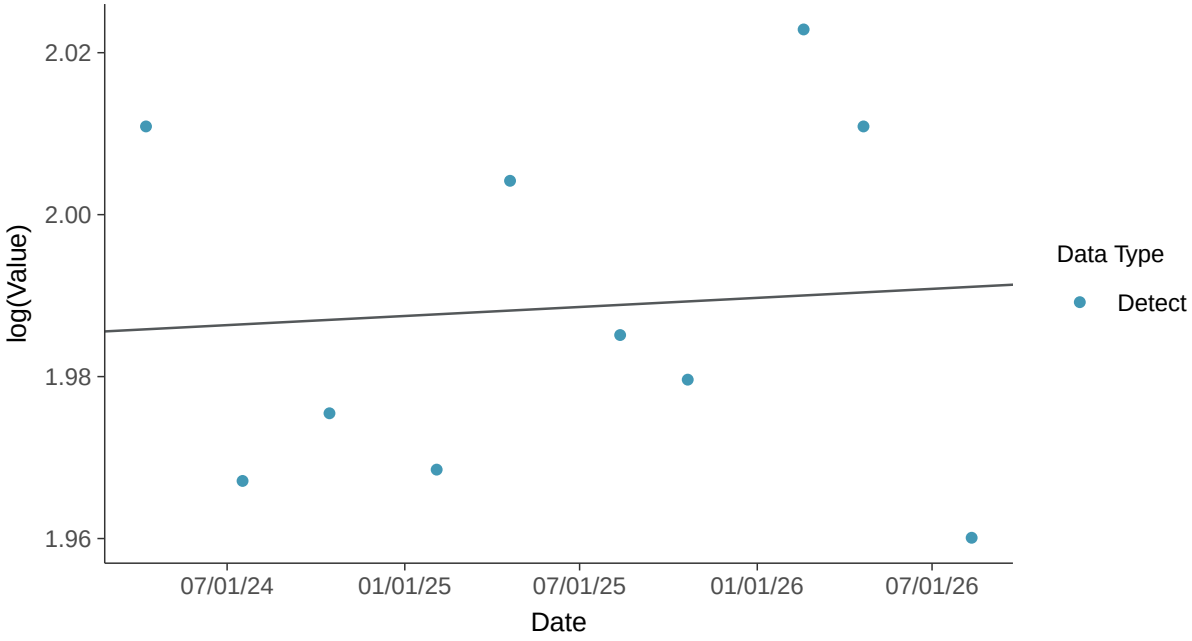
Gamma Q-Q plot

pH (field), MW-37 (su)



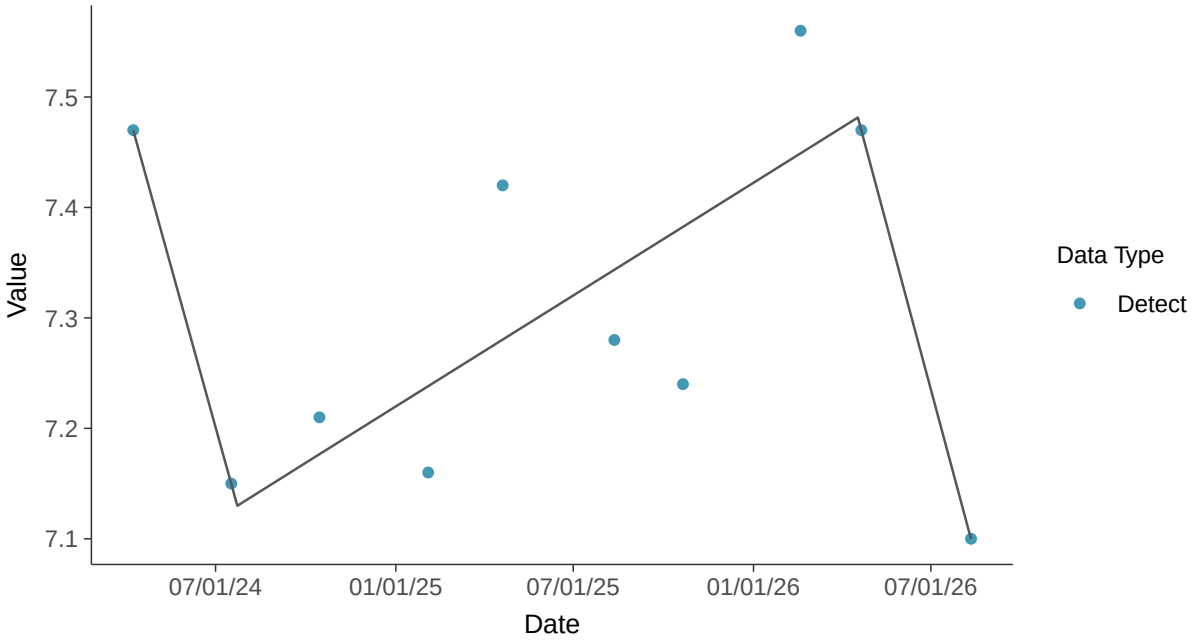
Trend Regression: Lognormal MLE

pH (field), MW-37 (su)



Trend Regression: Piecewise Linear-Linear-Linear

pH (field), MW-37 (su)

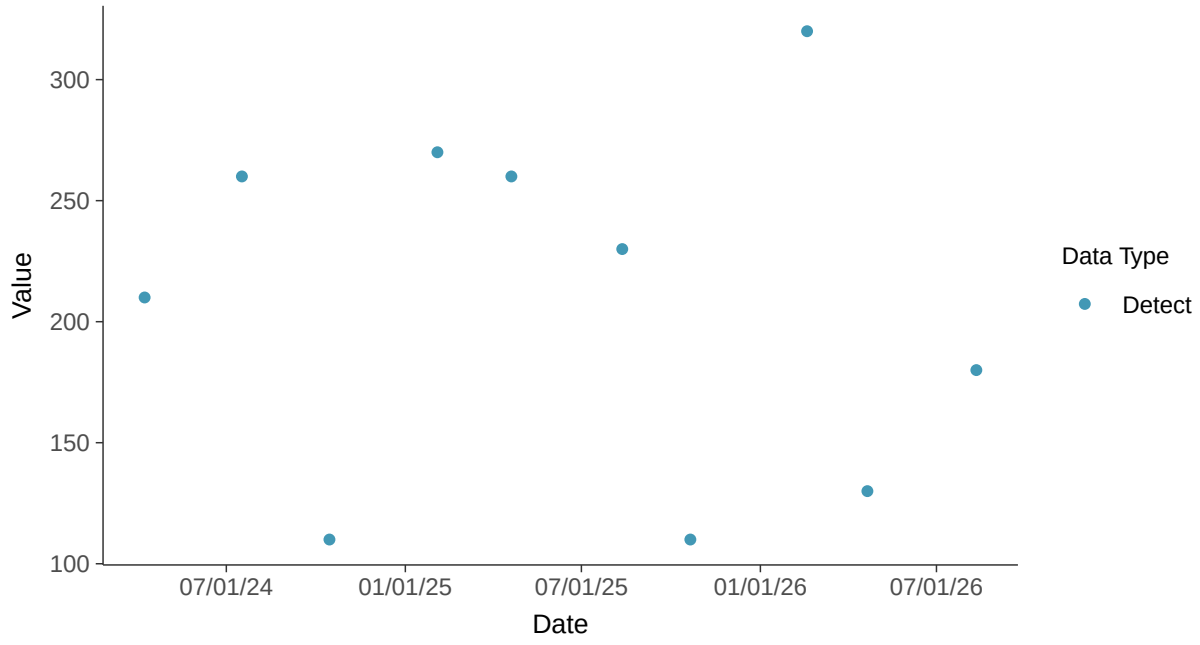


Appendix III: Sulfate (as SO4), MW-37

ID: 47_1_3_124

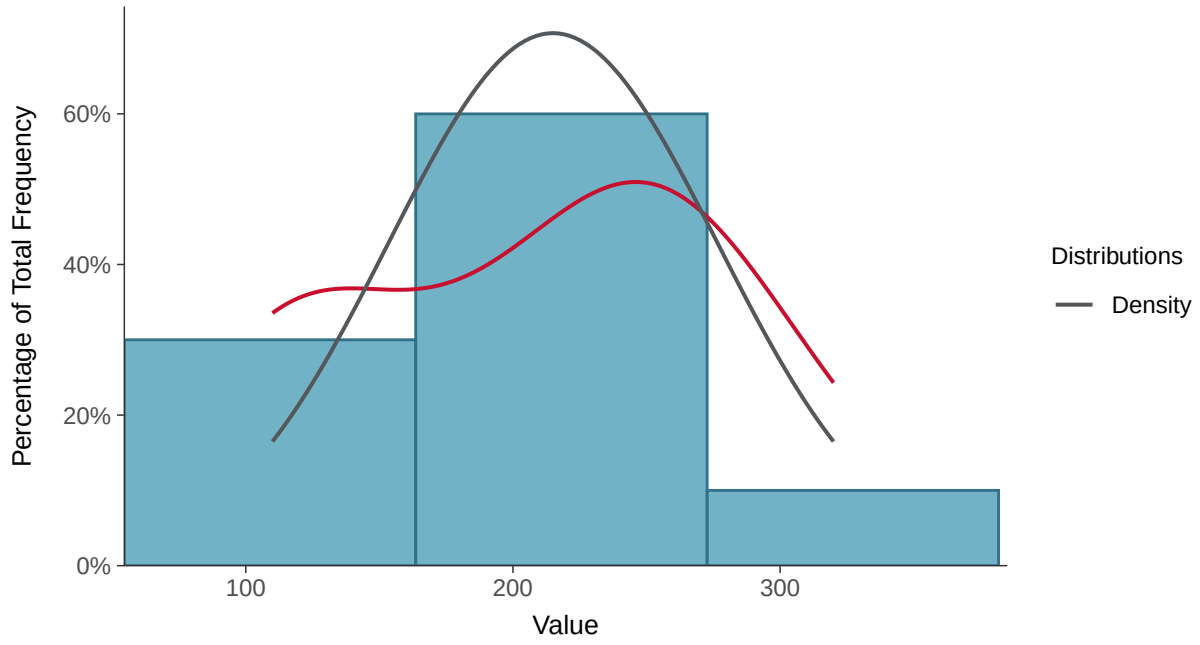
Scatter Plot

Sulfate (as SO4), MW-37 (mg/L)



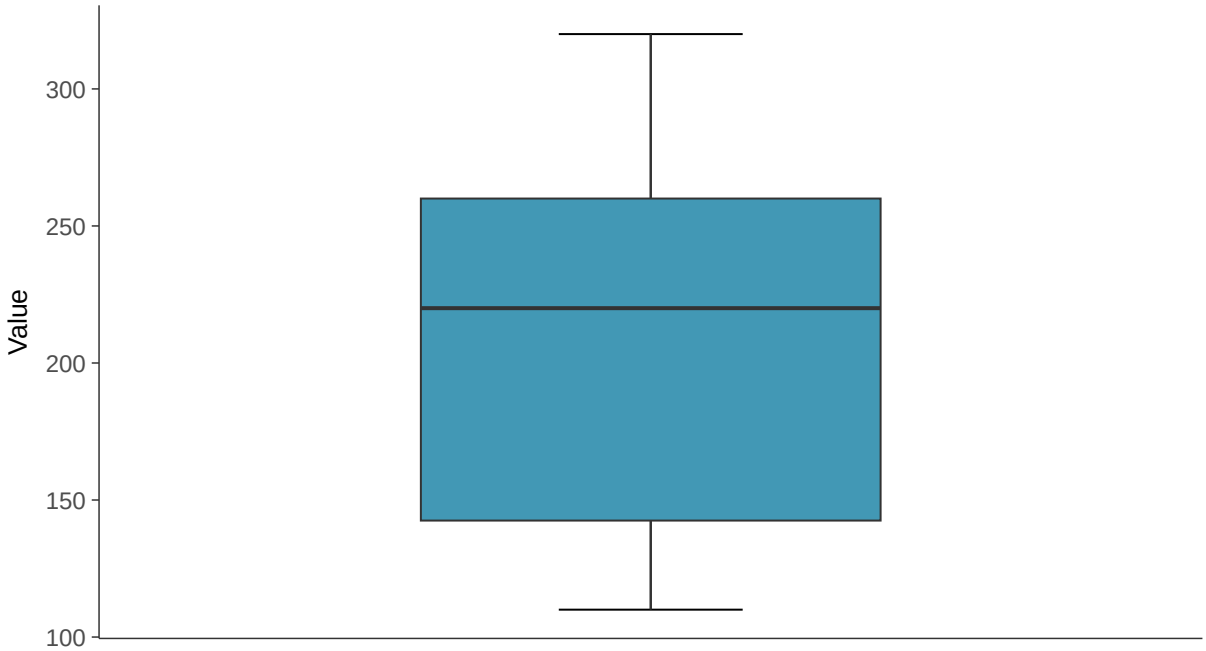
Histogram

Sulfate (as SO4), MW-37 (mg/L)



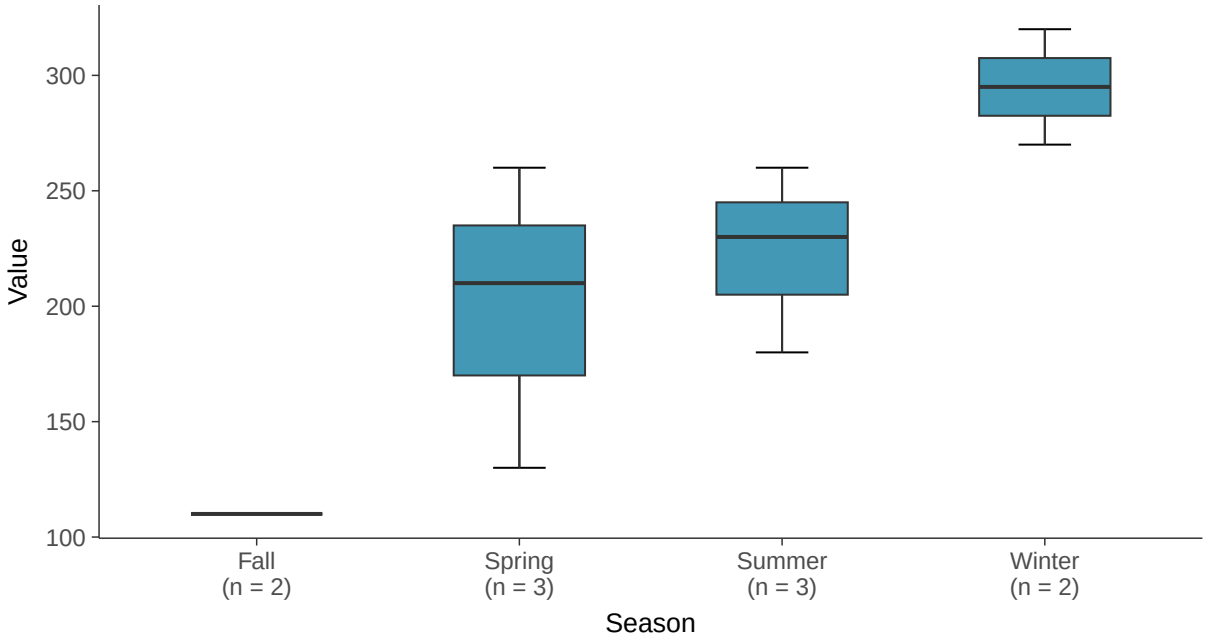
Boxplot

Sulfate (as SO4), MW-37 (mg/L)



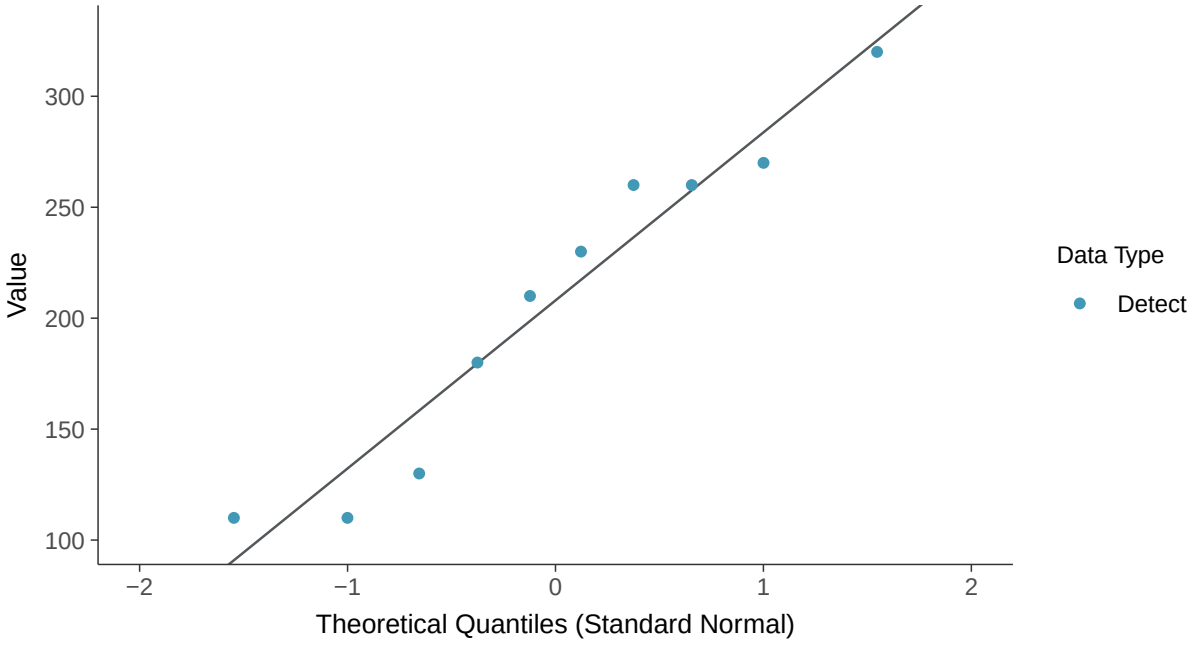
Boxplot by Season

Sulfate (as SO4), MW-37 (mg/L)



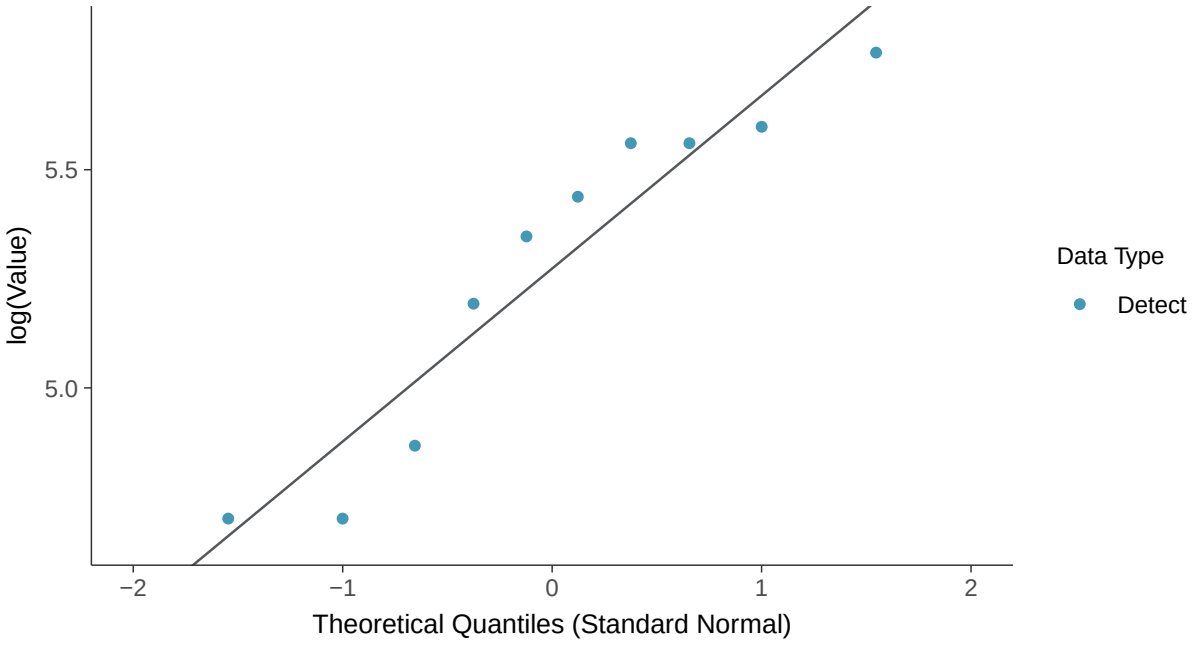
Normal Q-Q plot

Sulfate (as SO4), MW-37 (mg/L)



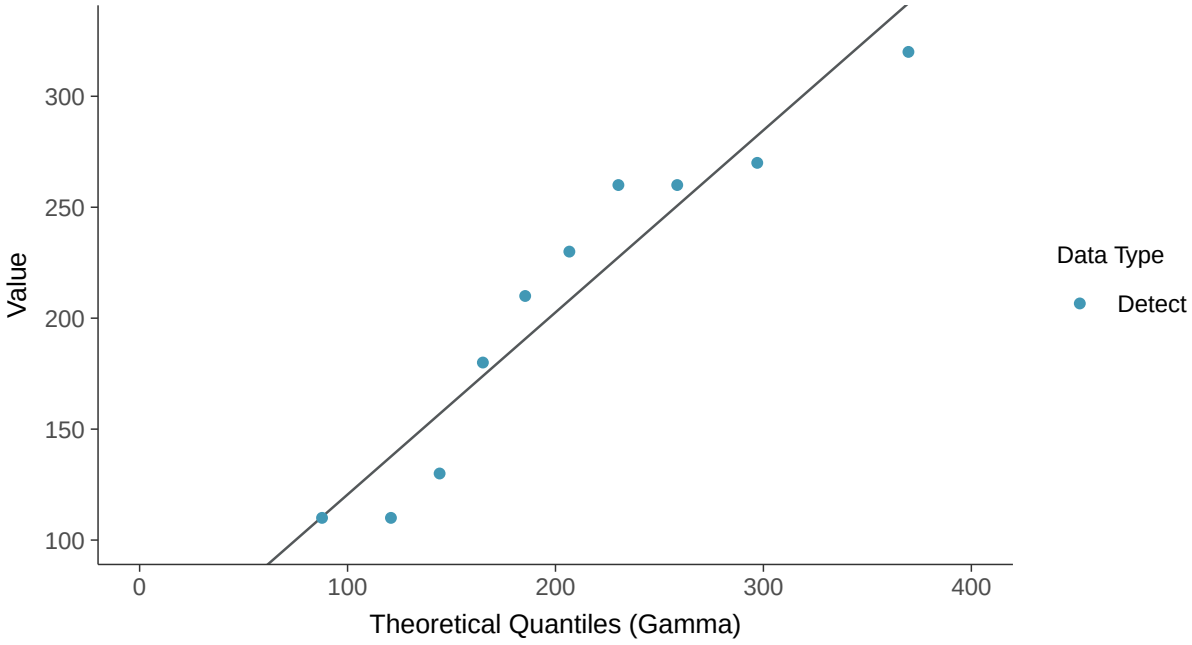
Lognormal Q-Q plot

Sulfate (as SO4), MW-37 (mg/L)



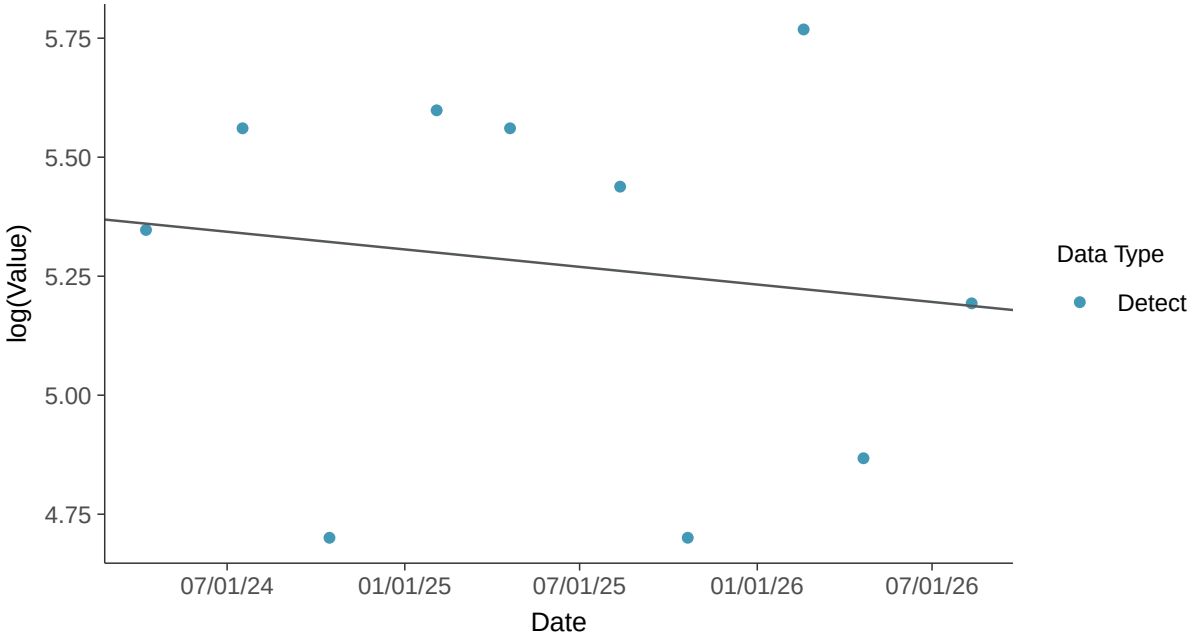
Gamma Q-Q plot

Sulfate (as SO4), MW-37 (mg/L)



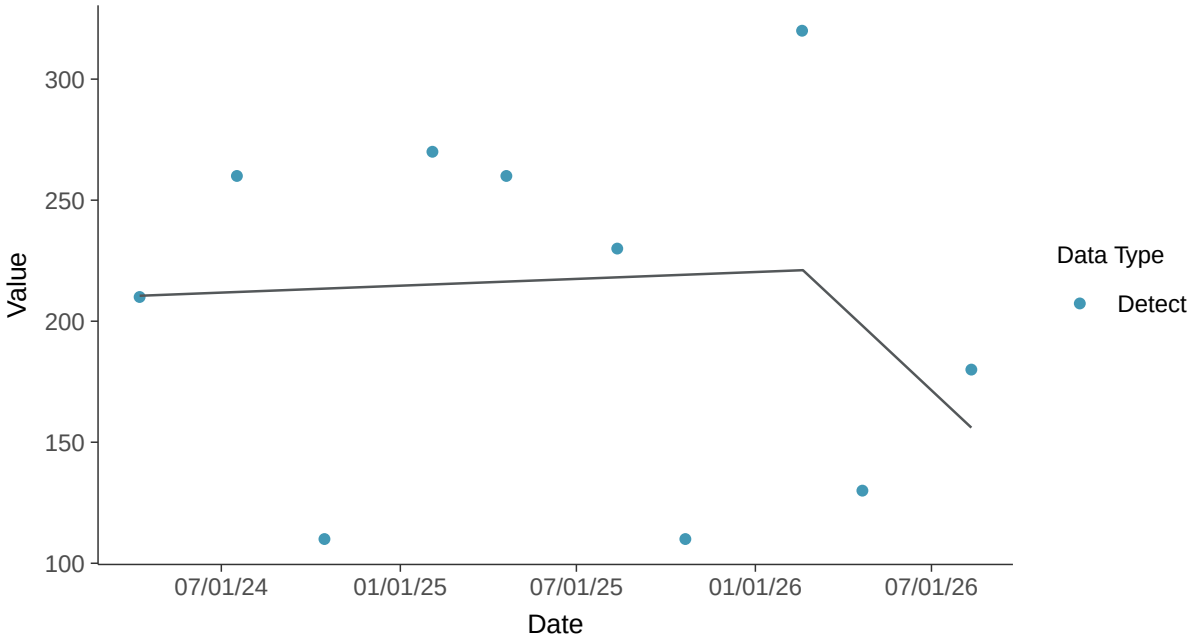
Trend Regression: Lognormal MLE

Sulfate (as SO4), MW-37 (mg/L)



Trend Regression: Piecewise Linear-Linear

Sulfate (as SO4), MW-37 (mg/L)

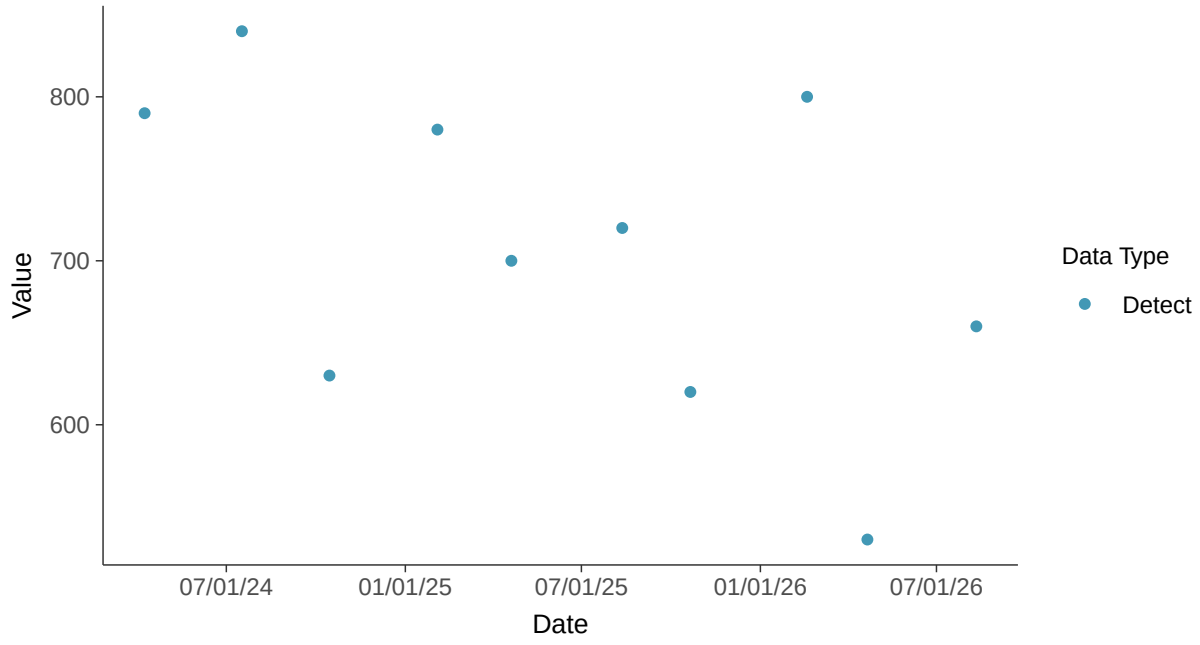


Appendix III: Total Dissolved Solids, MW-37

ID: 47_1_3_126

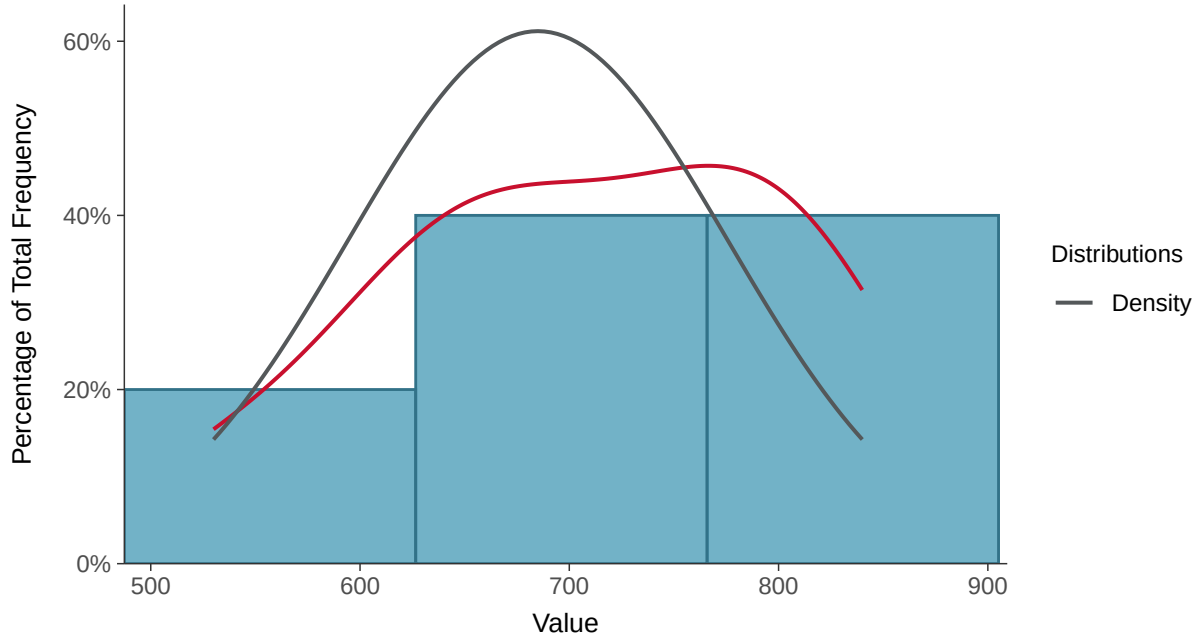
Scatter Plot

Total Dissolved Solids, MW-37 (mg/L)



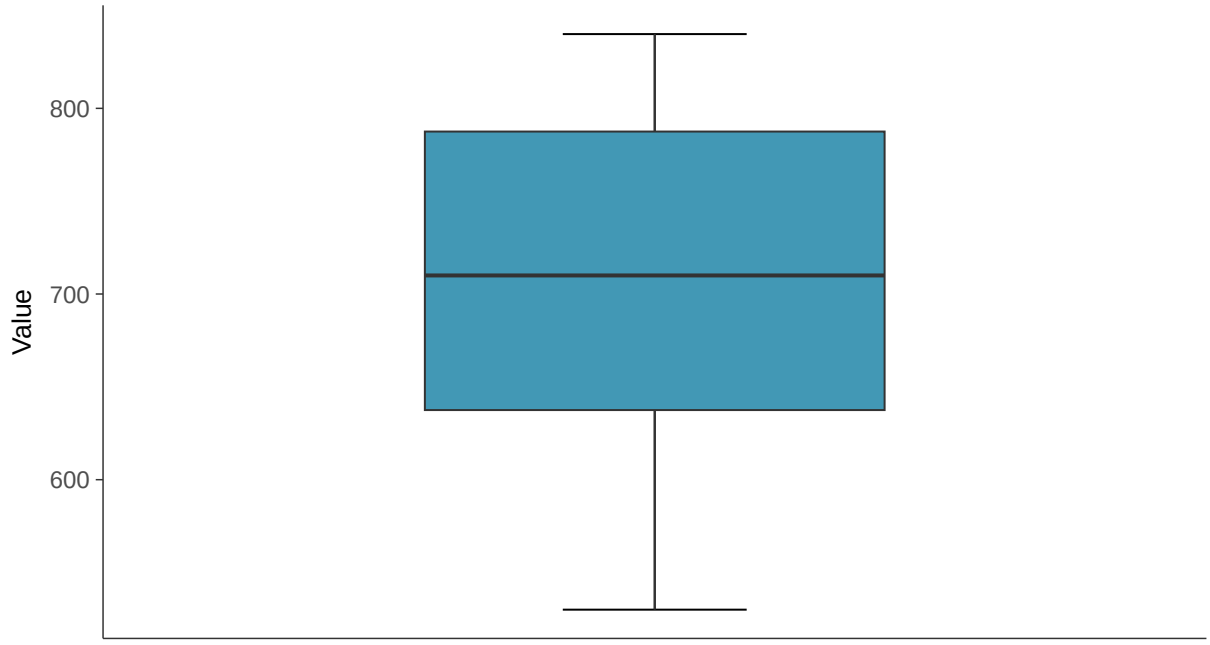
Histogram

Total Dissolved Solids, MW-37 (mg/L)



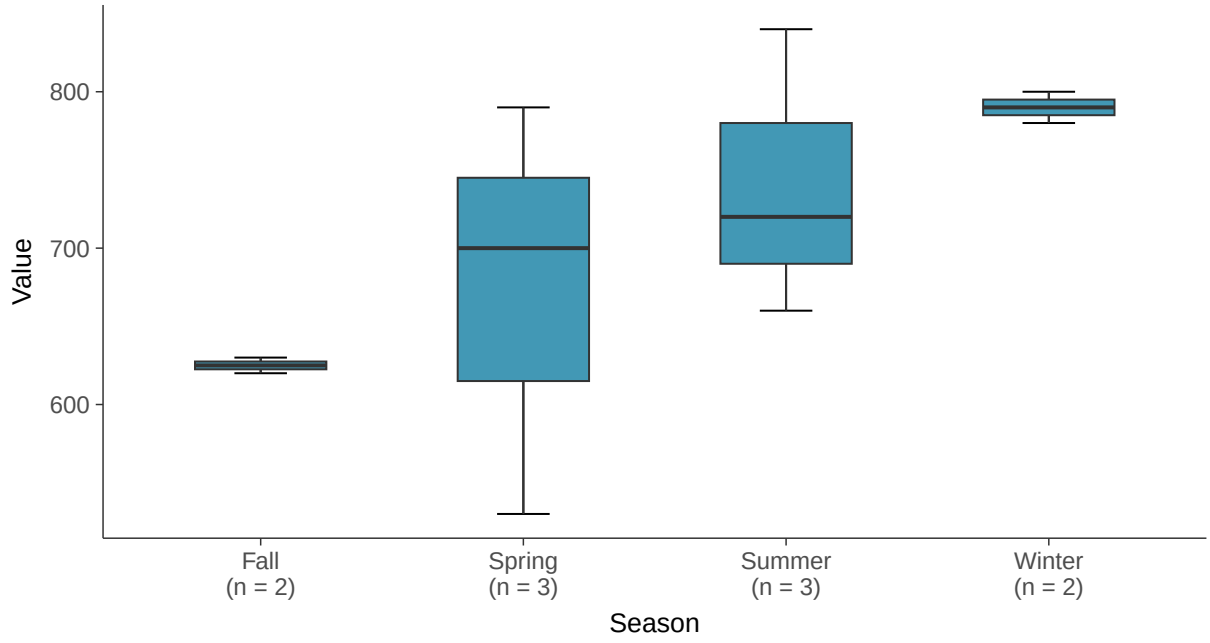
Boxplot

Total Dissolved Solids, MW-37 (mg/L)



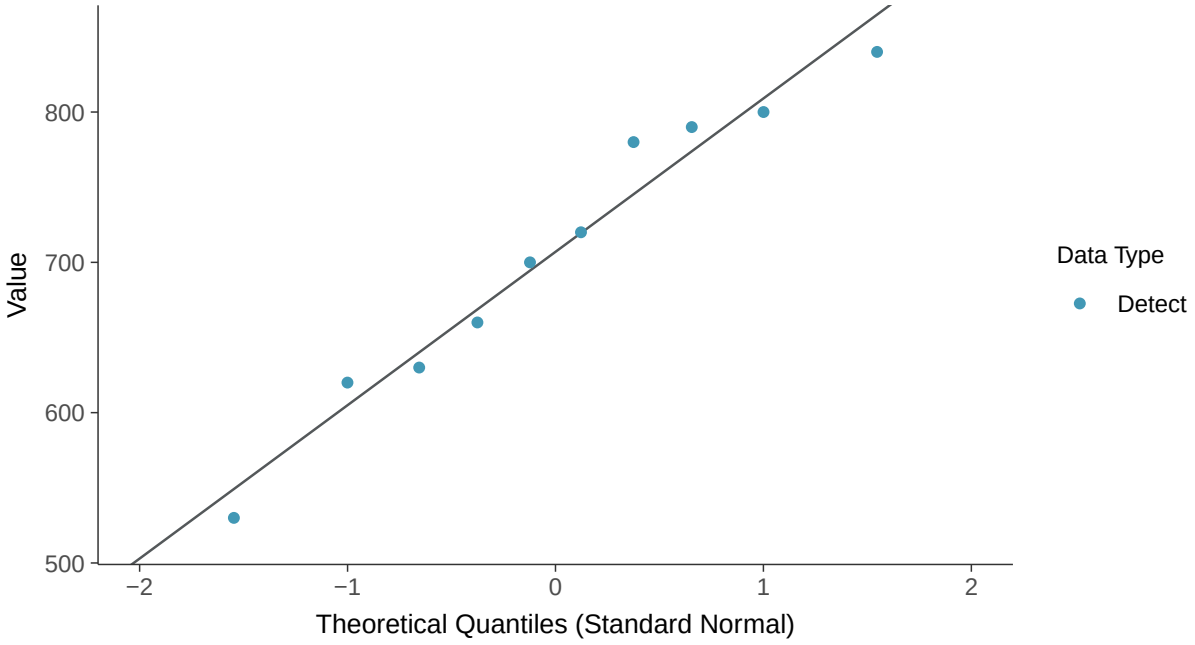
Boxplot by Season

Total Dissolved Solids, MW-37 (mg/L)



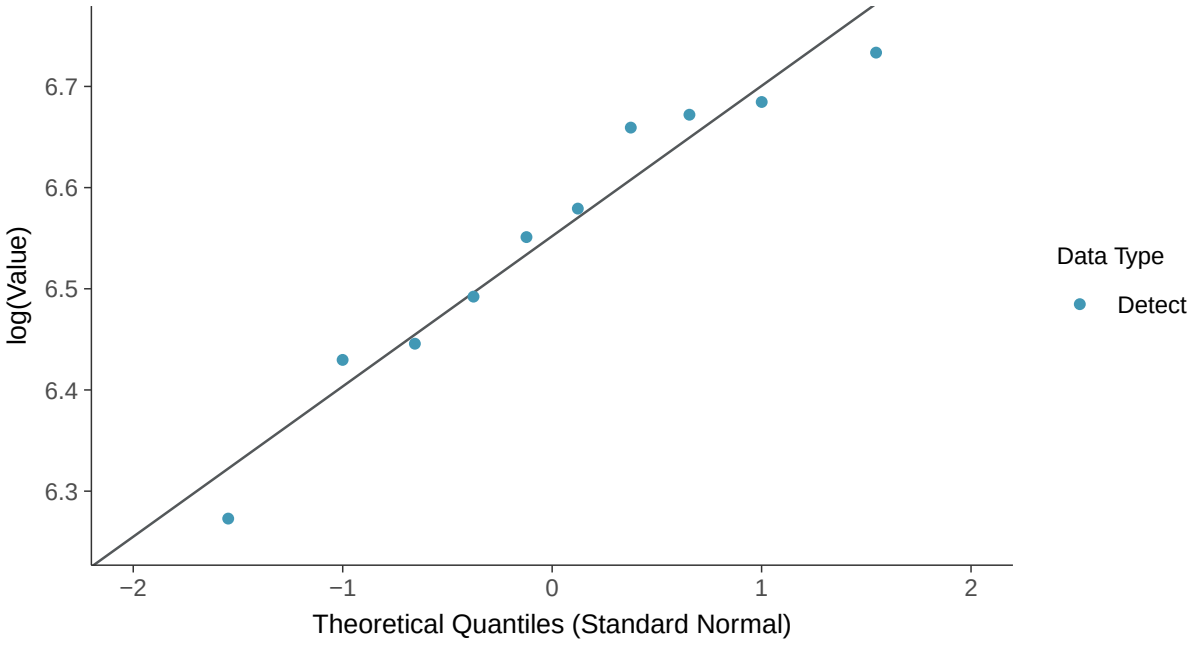
Normal Q-Q plot

Total Dissolved Solids, MW-37 (mg/L)



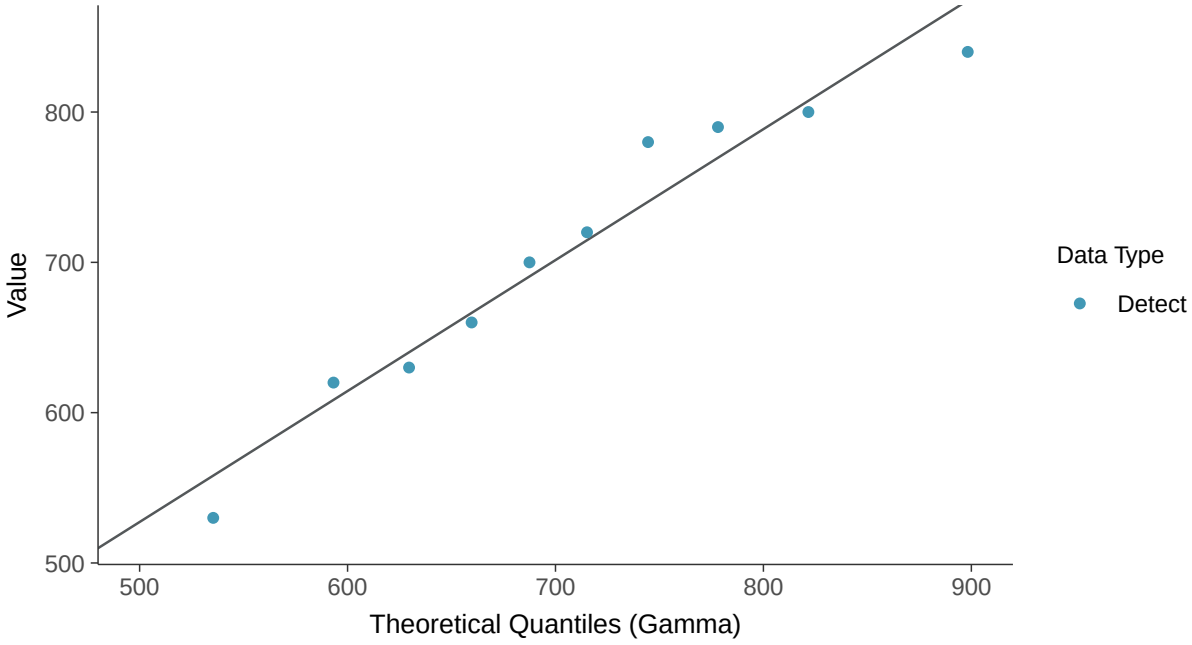
Lognormal Q-Q plot

Total Dissolved Solids, MW-37 (mg/L)



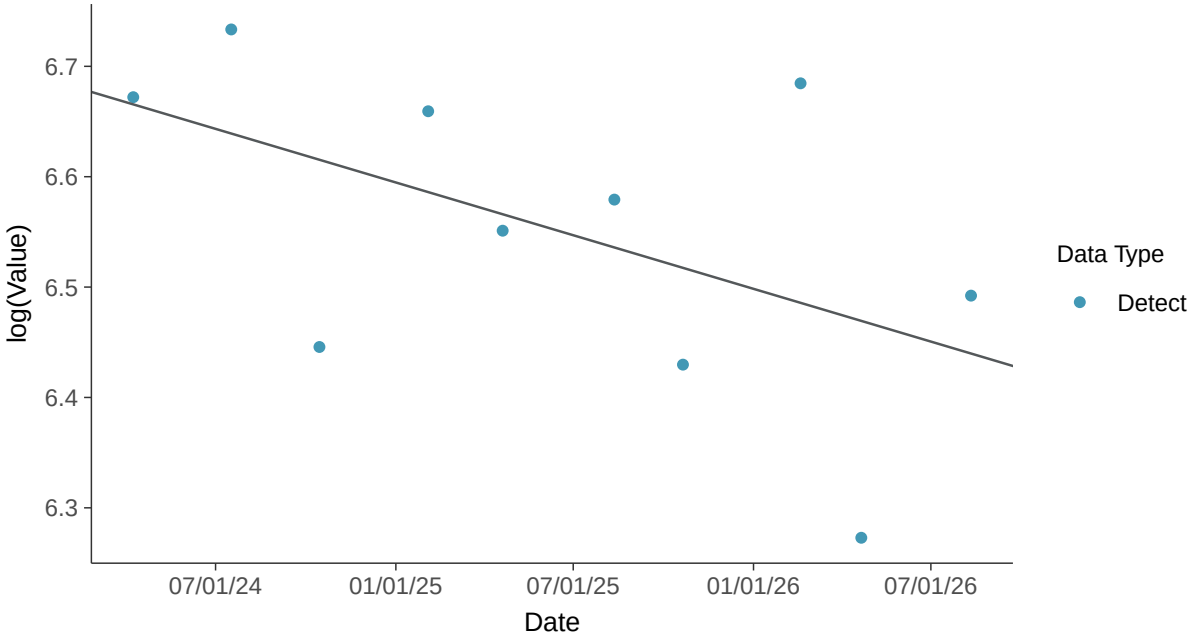
Gamma Q-Q plot

Total Dissolved Solids, MW-37 (mg/L)



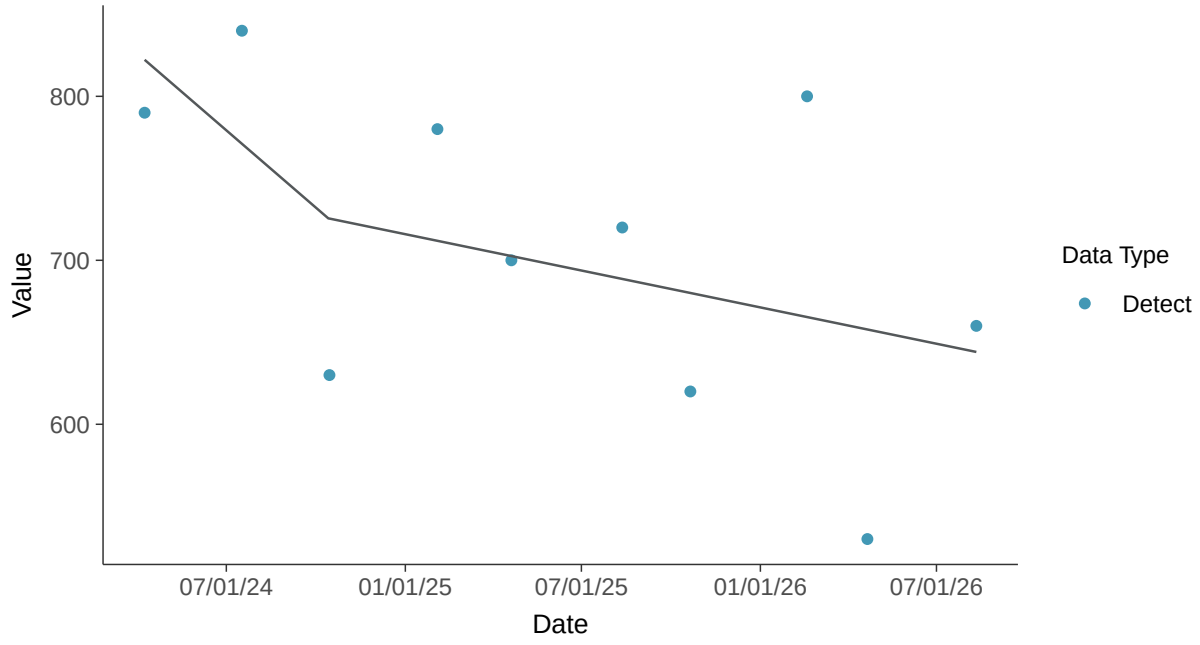
Trend Regression: Lognormal MLE

Total Dissolved Solids, MW-37 (mg/L)



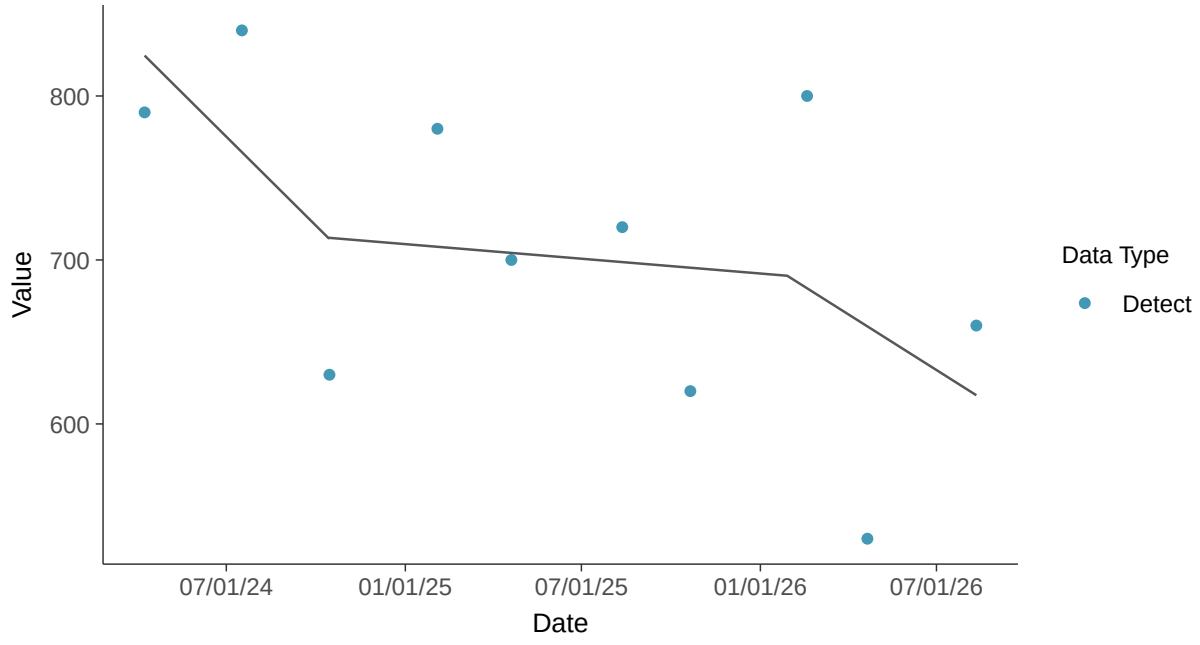
Trend Regression: Piecewise Linear-Linear

Total Dissolved Solids, MW-37 (mg/L)



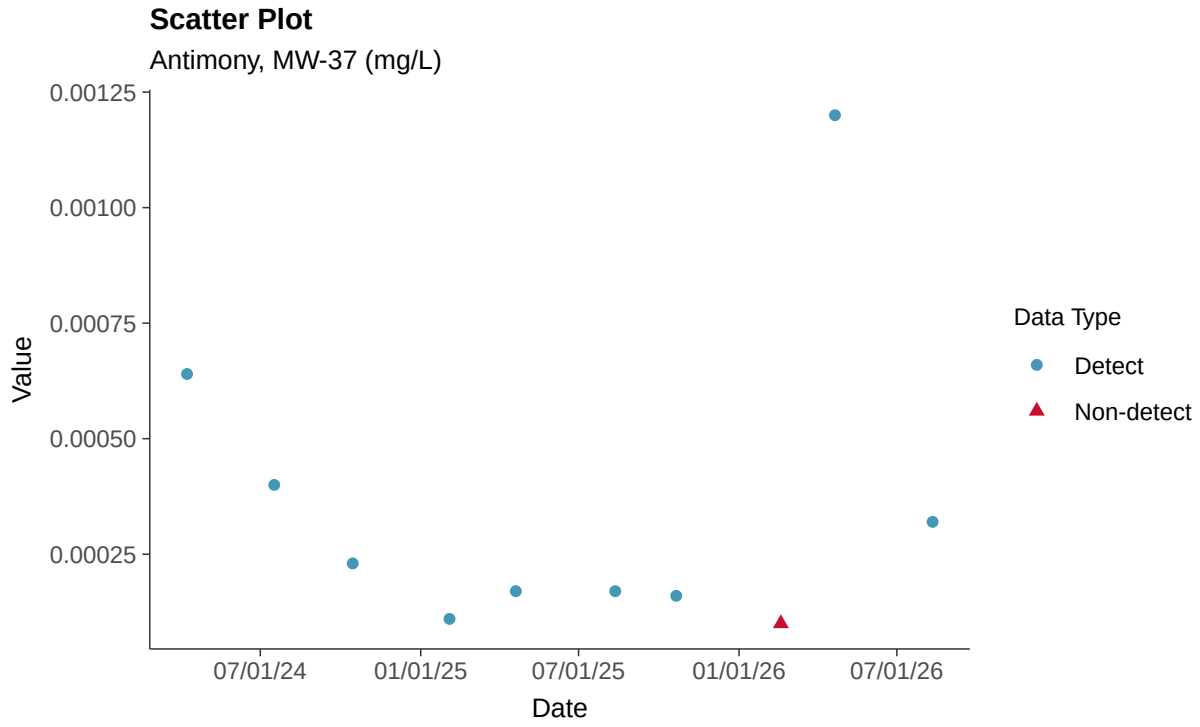
Trend Regression: Piecewise Linear-Linear-Linear

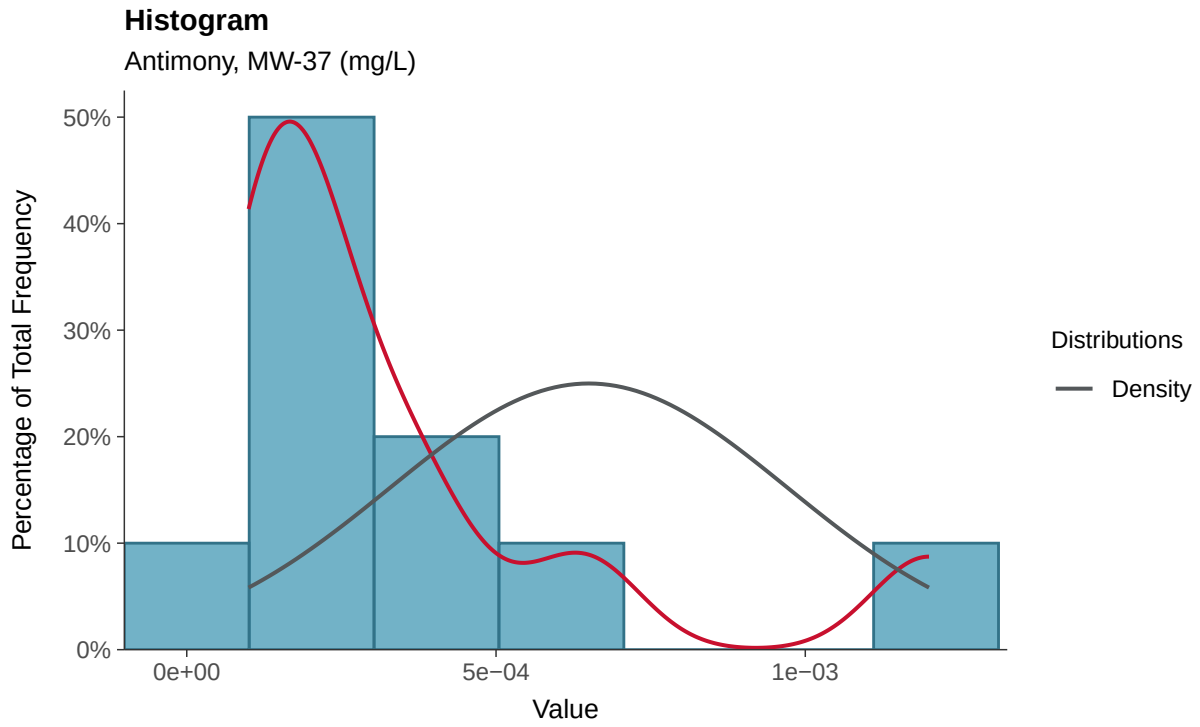
Total Dissolved Solids, MW-37 (mg/L)



Appendix IV: Antimony, MW-37

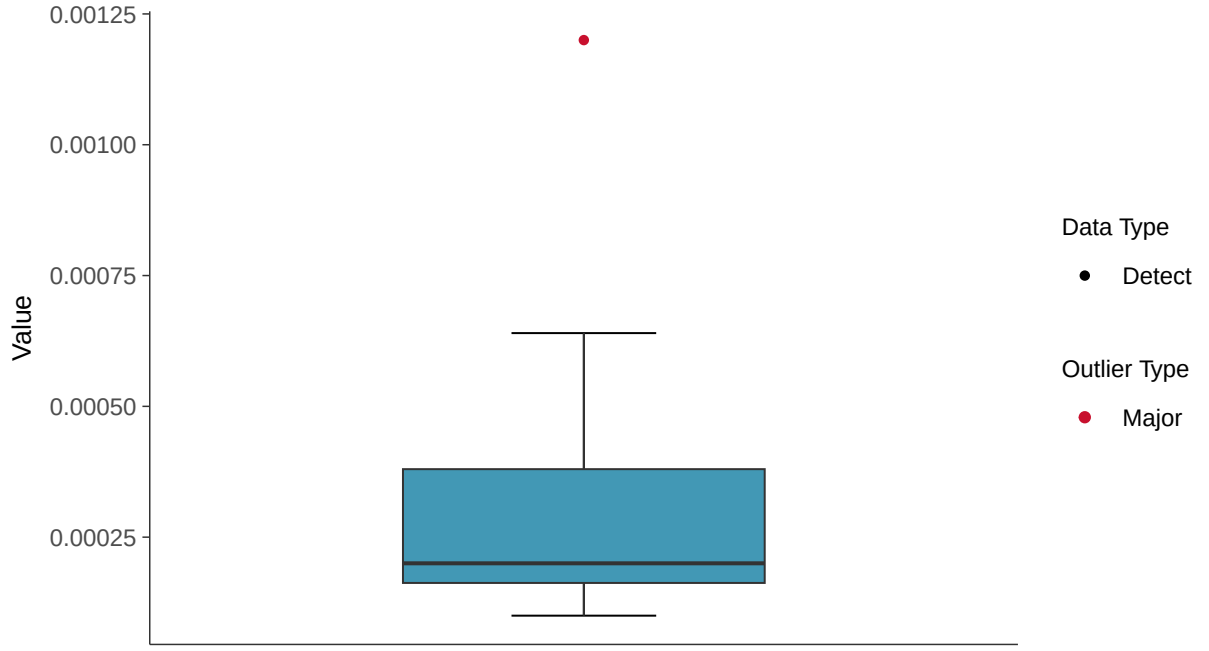
ID: 47_1_4_101





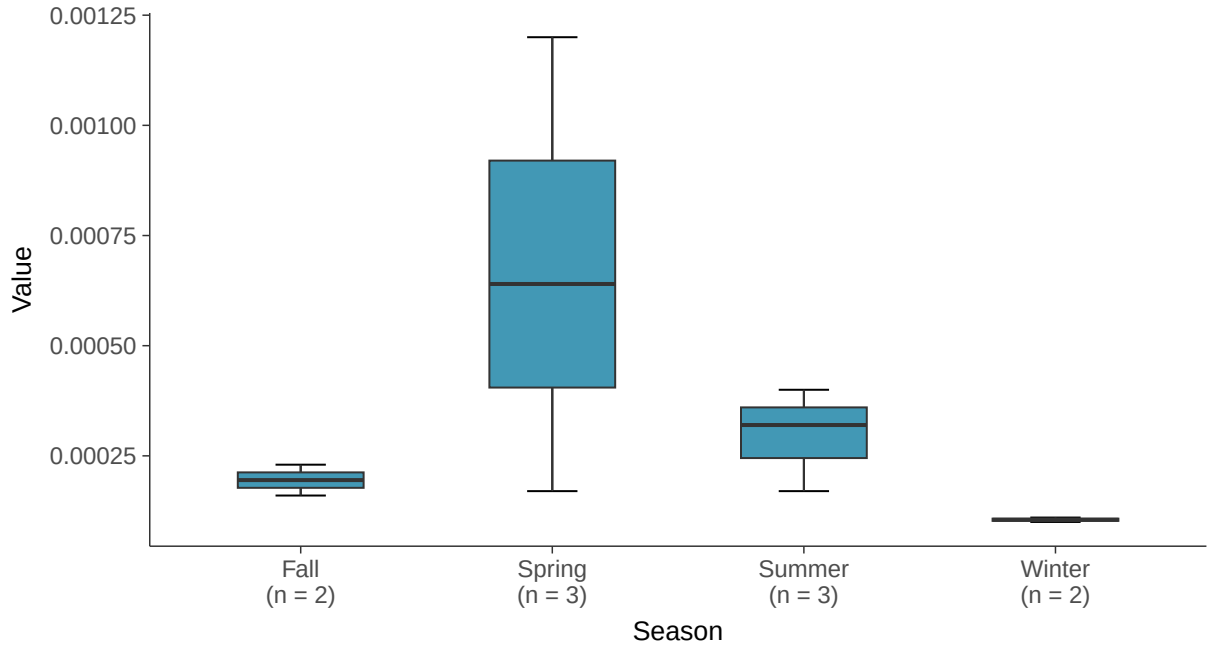
Boxplot

Antimony, MW-37 (mg/L)



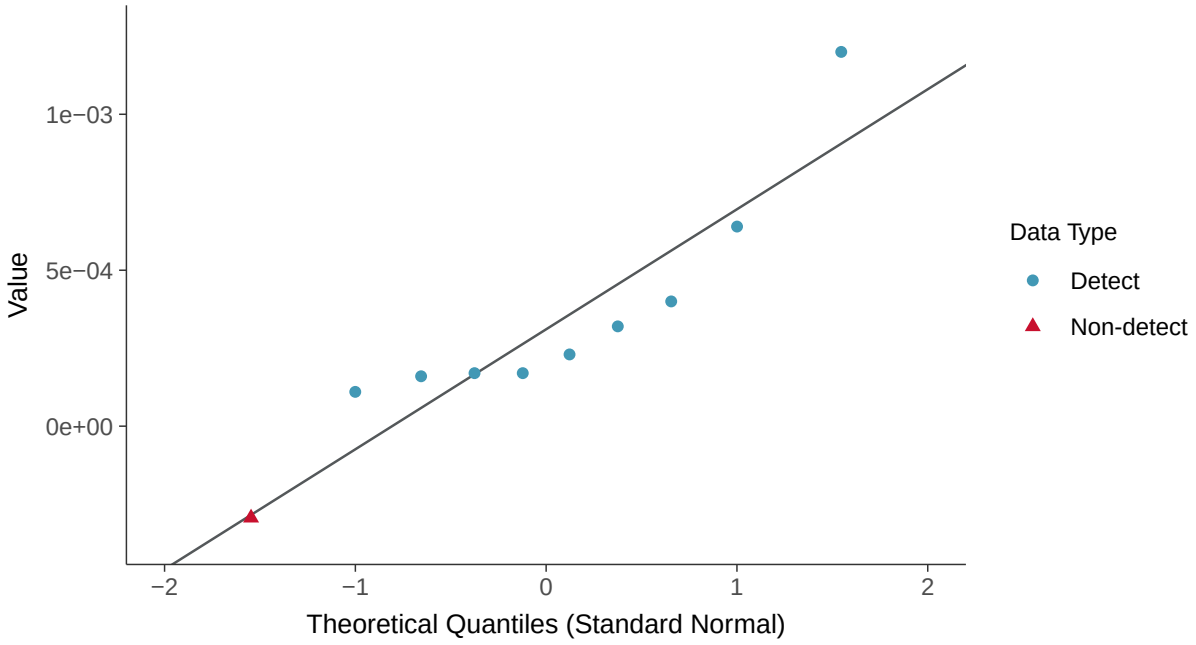
Boxplot by Season

Antimony, MW-37 (mg/L)



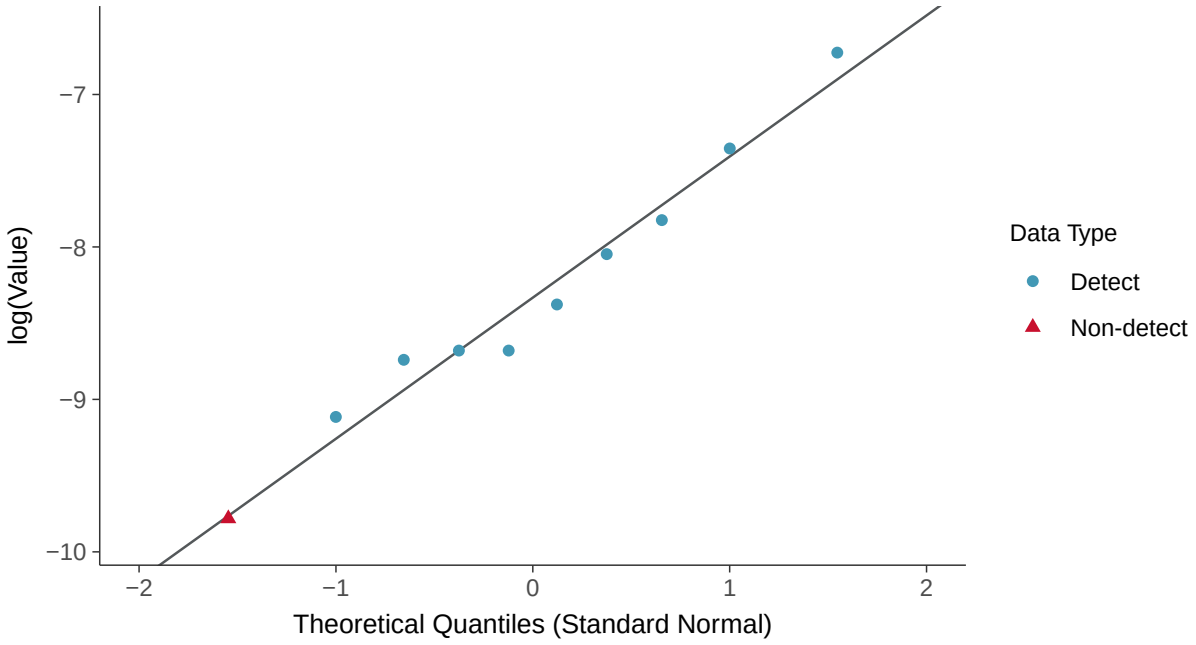
Normal Q-Q plot using ROS Imputed Estimates

Antimony, MW-37 (mg/L)



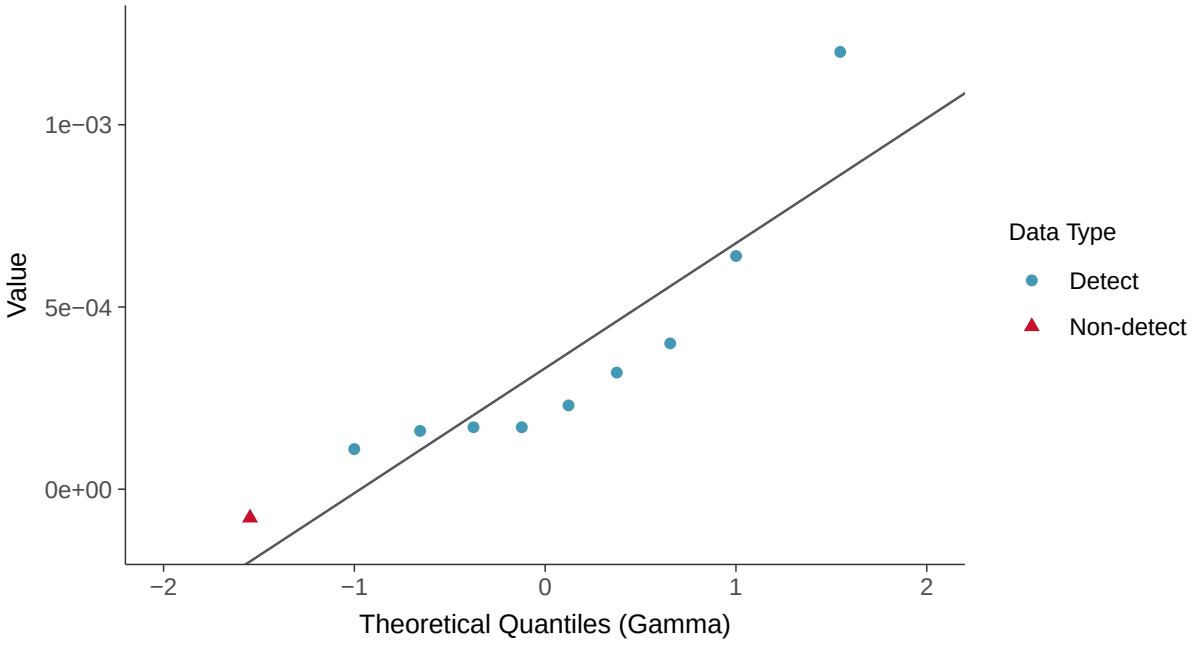
Lognormal Q-Q plot using ROS Imputed Estimates

Antimony, MW-37 (mg/L)



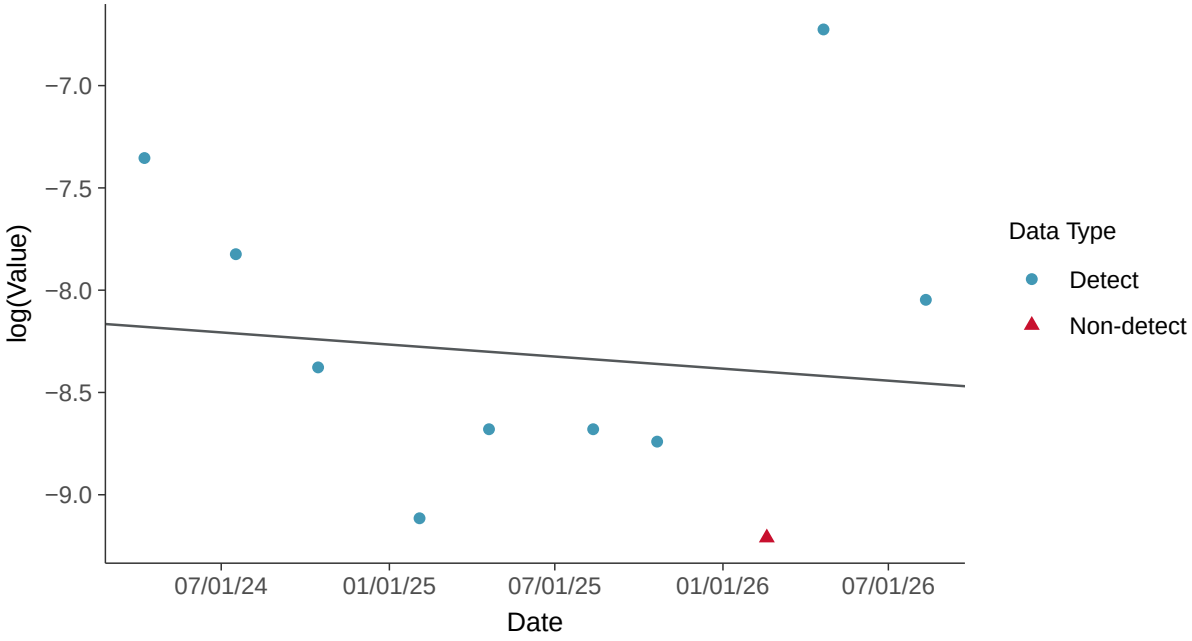
Gamma Q-Q plot using ROS Imputed Estimates

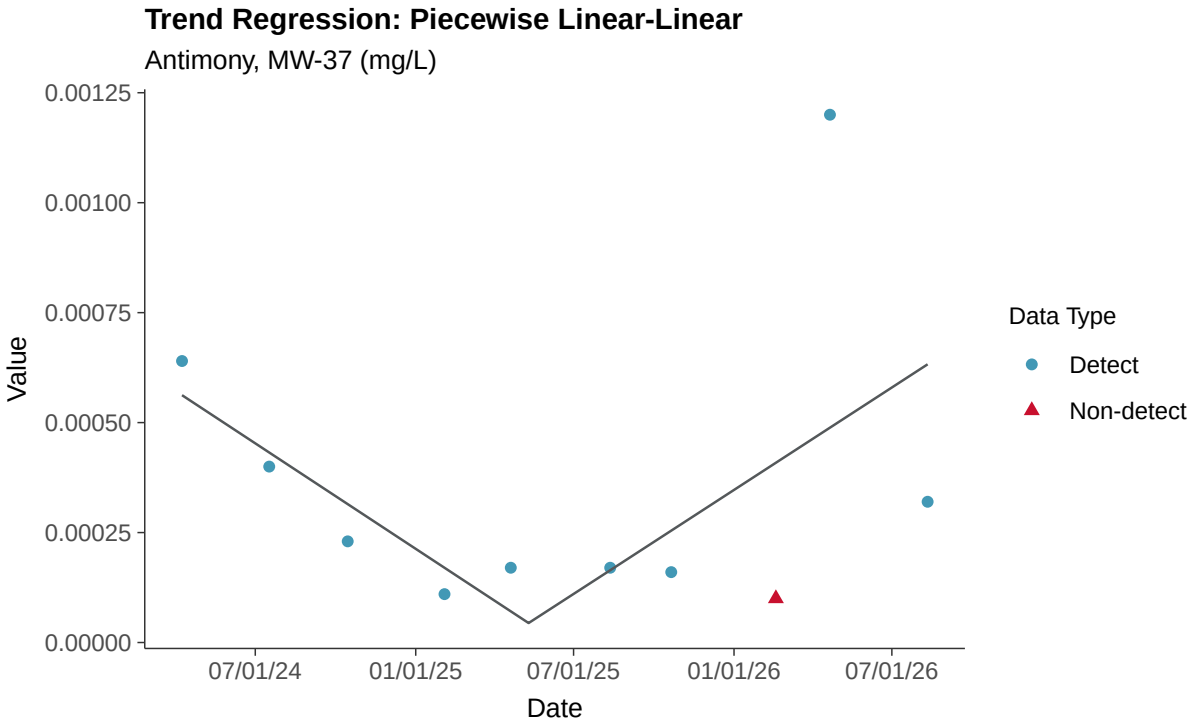
Antimony, MW-37 (mg/L)



Trend Regression: Lognormal MLE

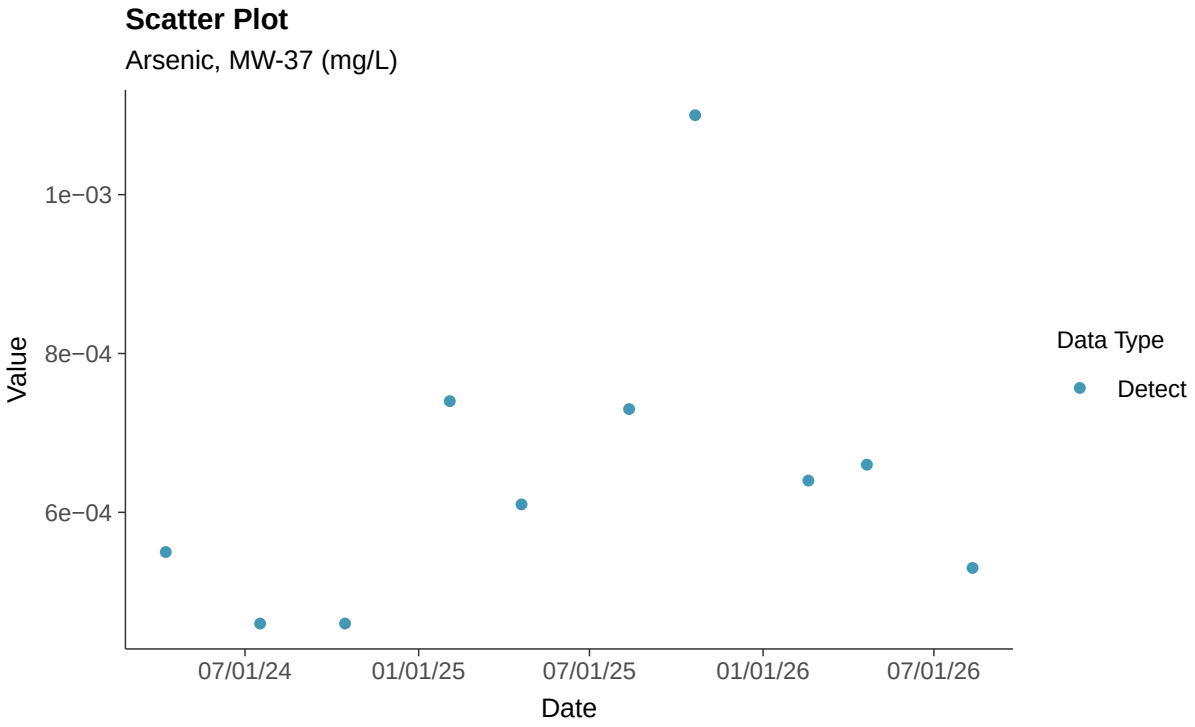
Antimony, MW-37 (mg/L)

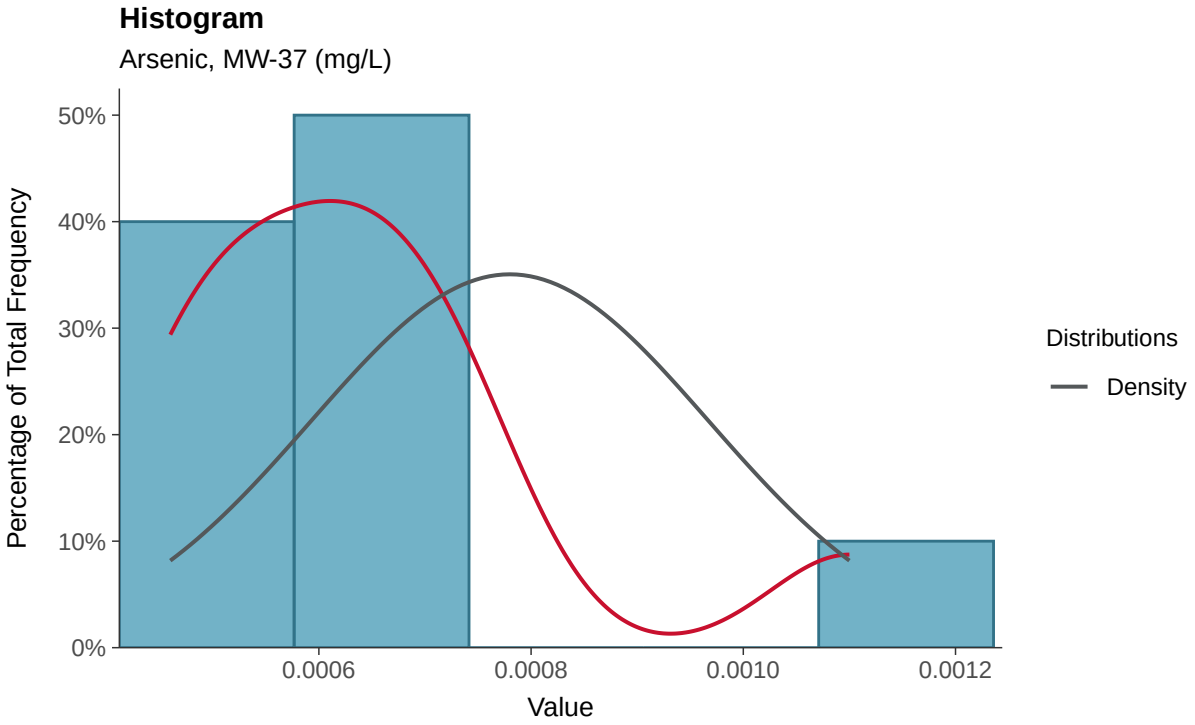



Trend Regression: Piecewise Linear-Linear
Antimony, MW-37 (mg/L)
Value
0.00125
0.00100
0.00075
0.00050
0.00025
0.00000
07/01/24
01/01/25
07/01/25
01/01/26
07/01/26
Date
Data Type
Detect
Non-detect

Appendix IV: Arsenic, MW-37

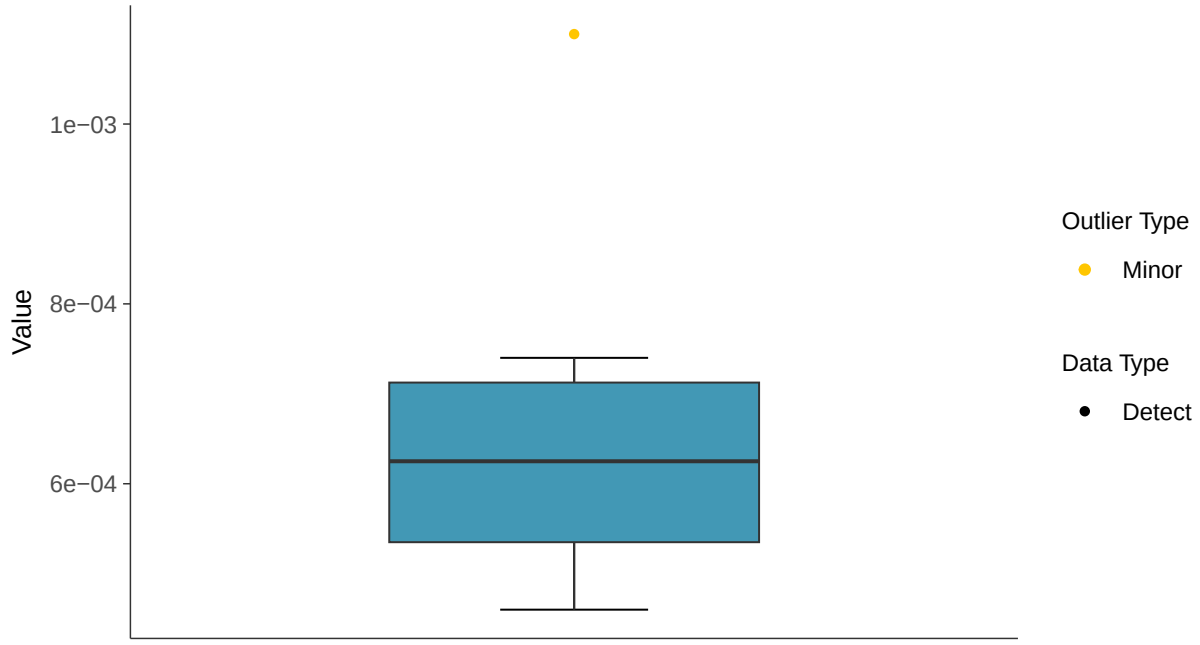
ID: 47_1_4_102





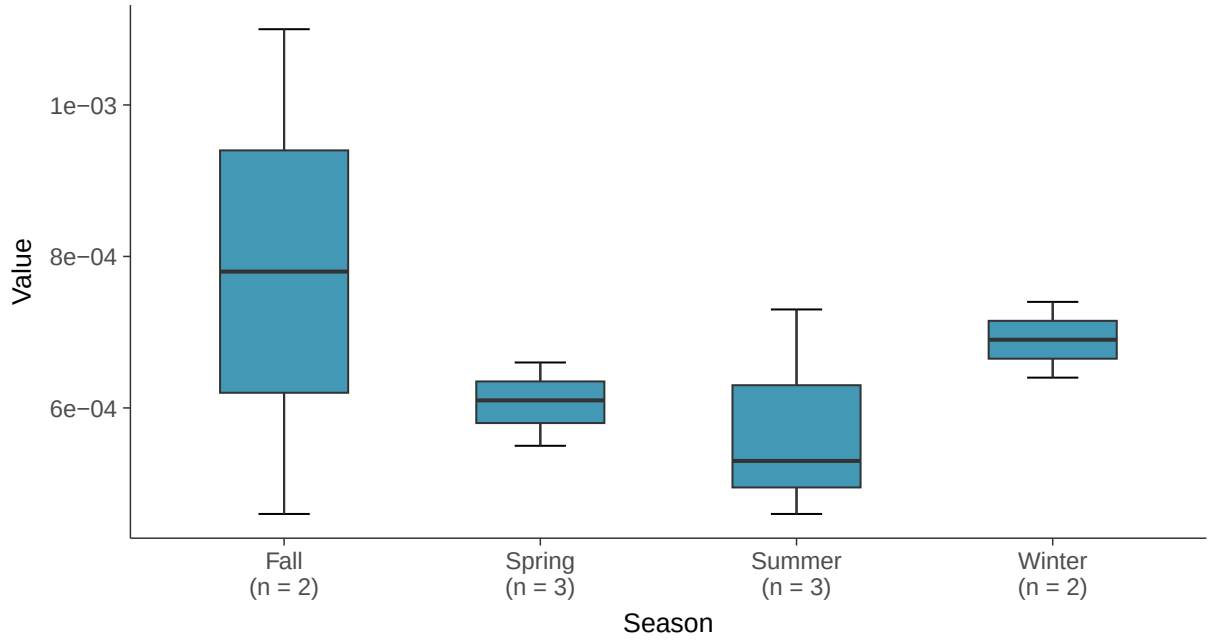
Boxplot

Arsenic, MW-37 (mg/L)



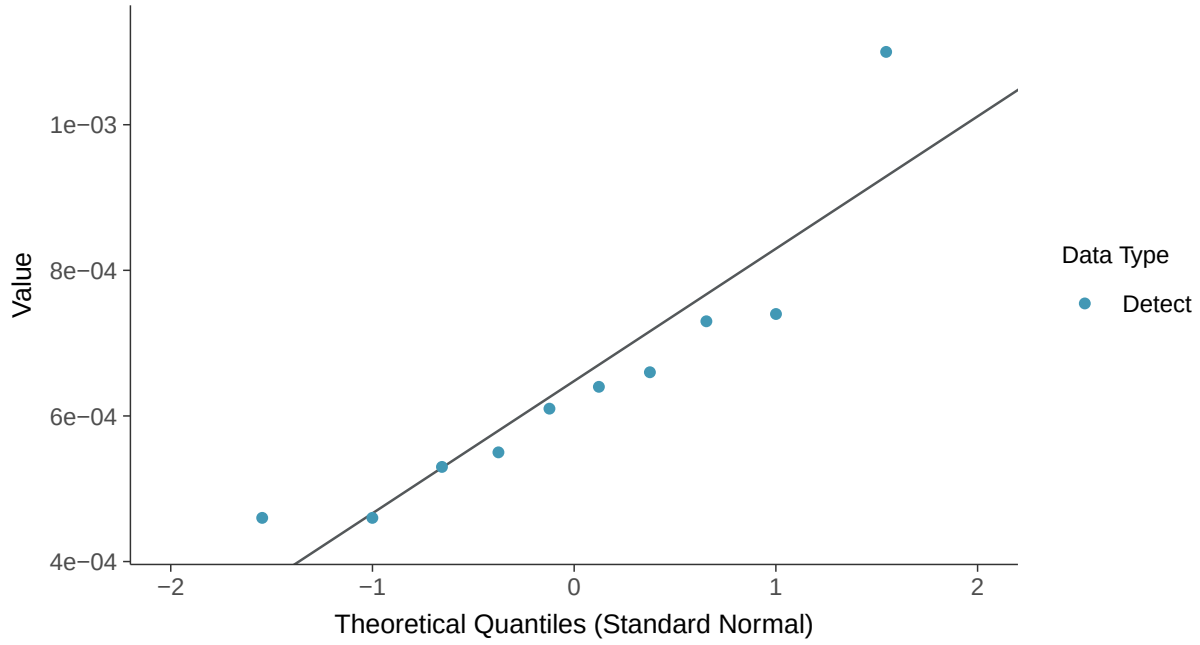
Boxplot by Season

Arsenic, MW-37 (mg/L)



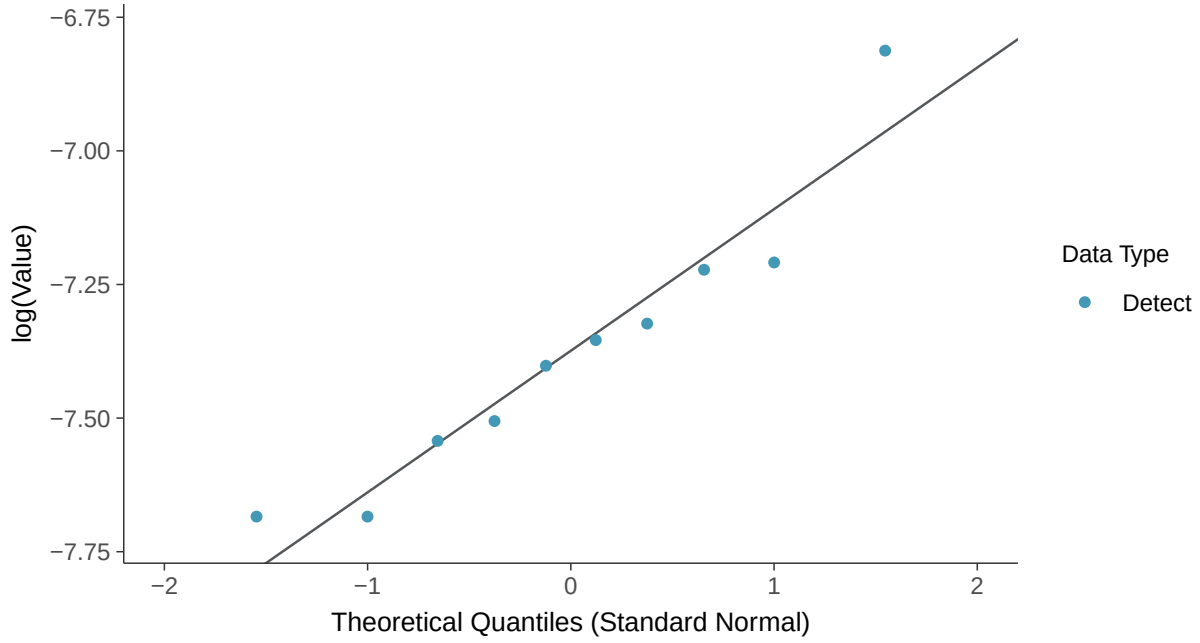
Normal Q-Q plot

Arsenic, MW-37 (mg/L)



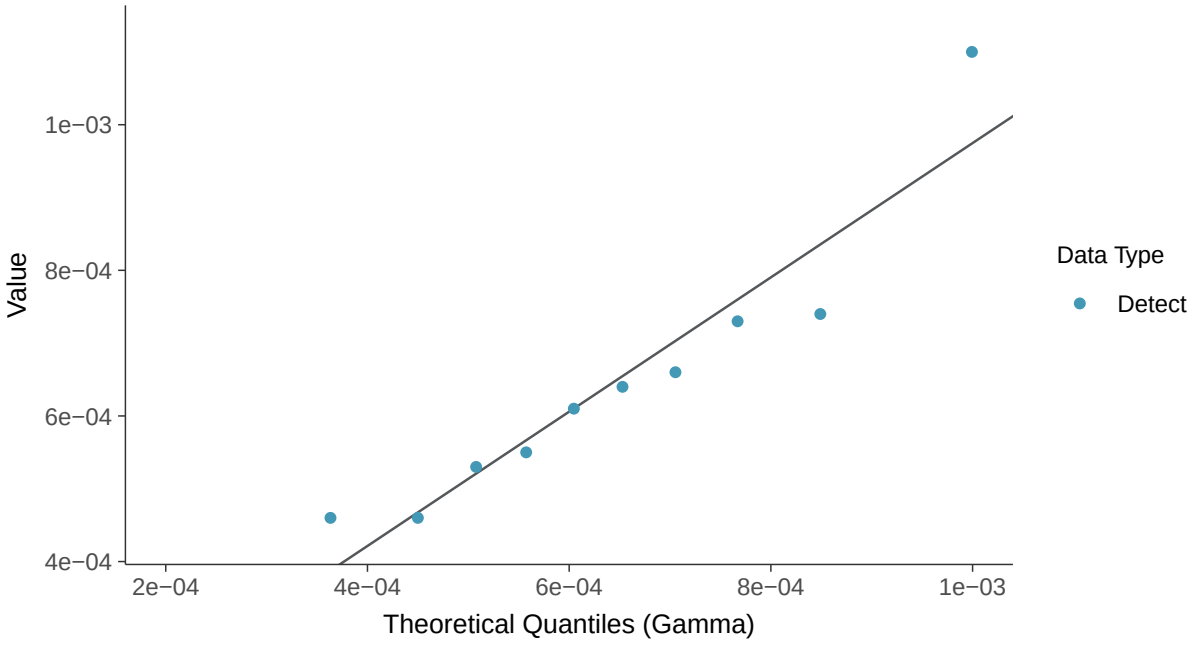
Lognormal Q-Q plot

Arsenic, MW-37 (mg/L)



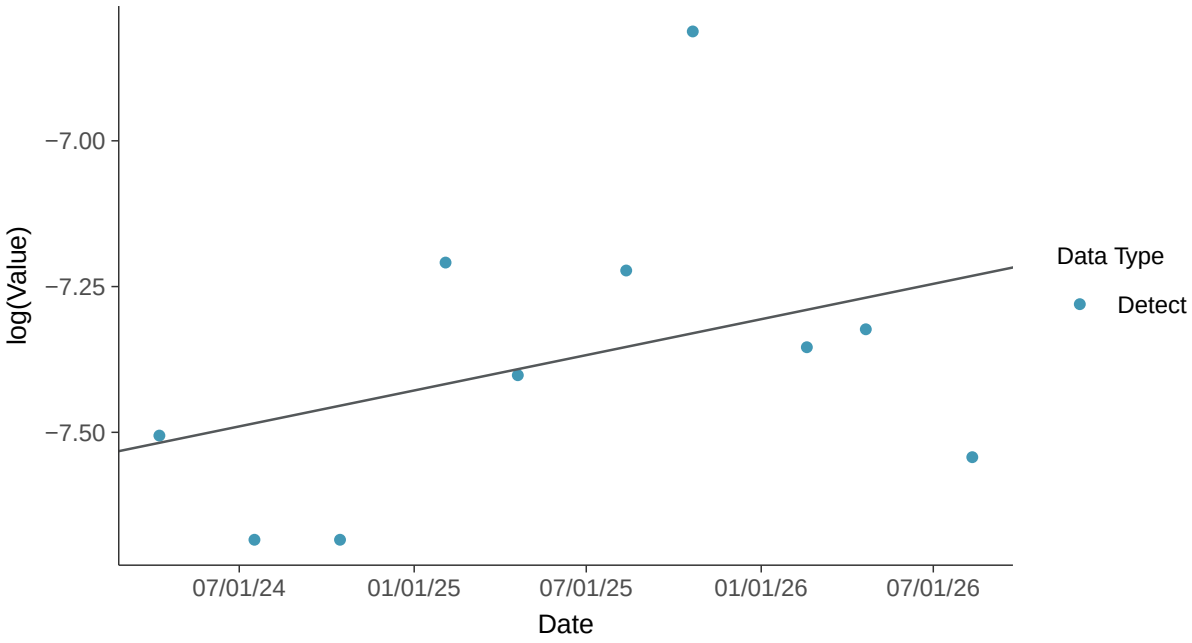
Gamma Q-Q plot

Arsenic, MW-37 (mg/L)



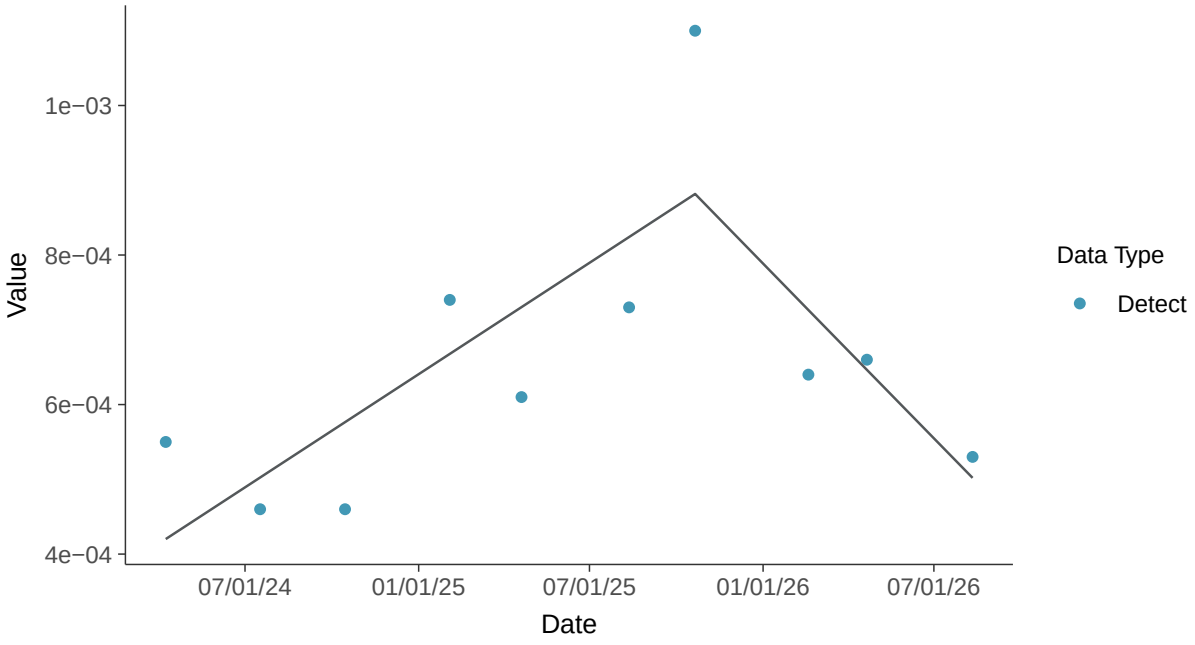
Trend Regression: Lognormal MLE

Arsenic, MW-37 (mg/L)



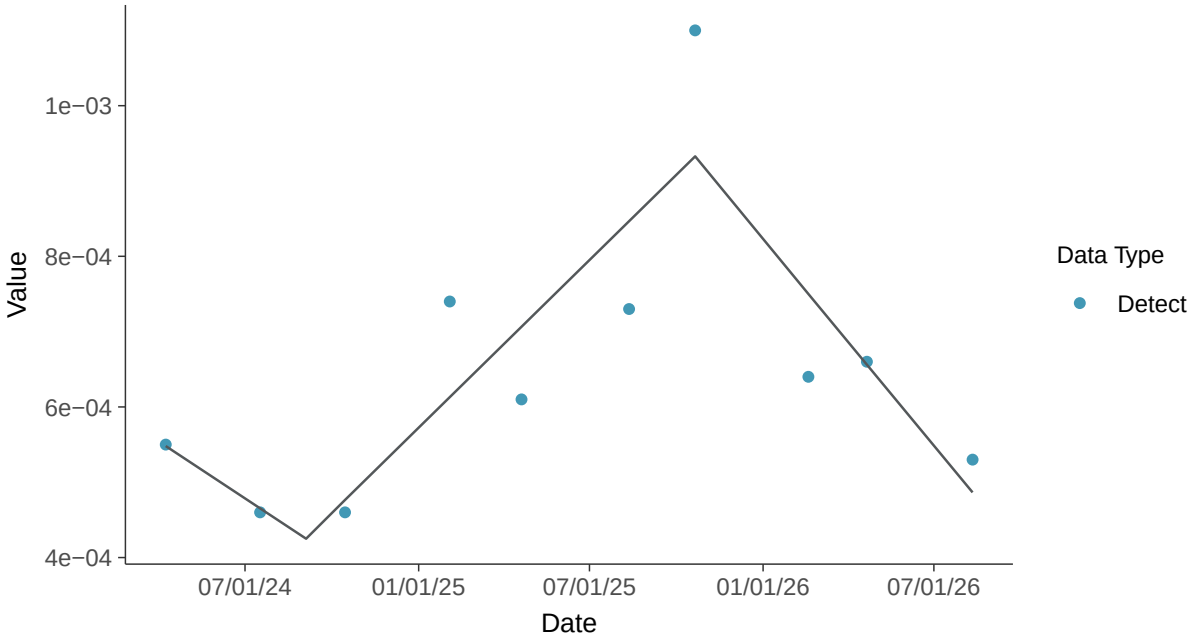
Trend Regression: Piecewise Linear-Linear

Arsenic, MW-37 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Arsenic, MW-37 (mg/L)

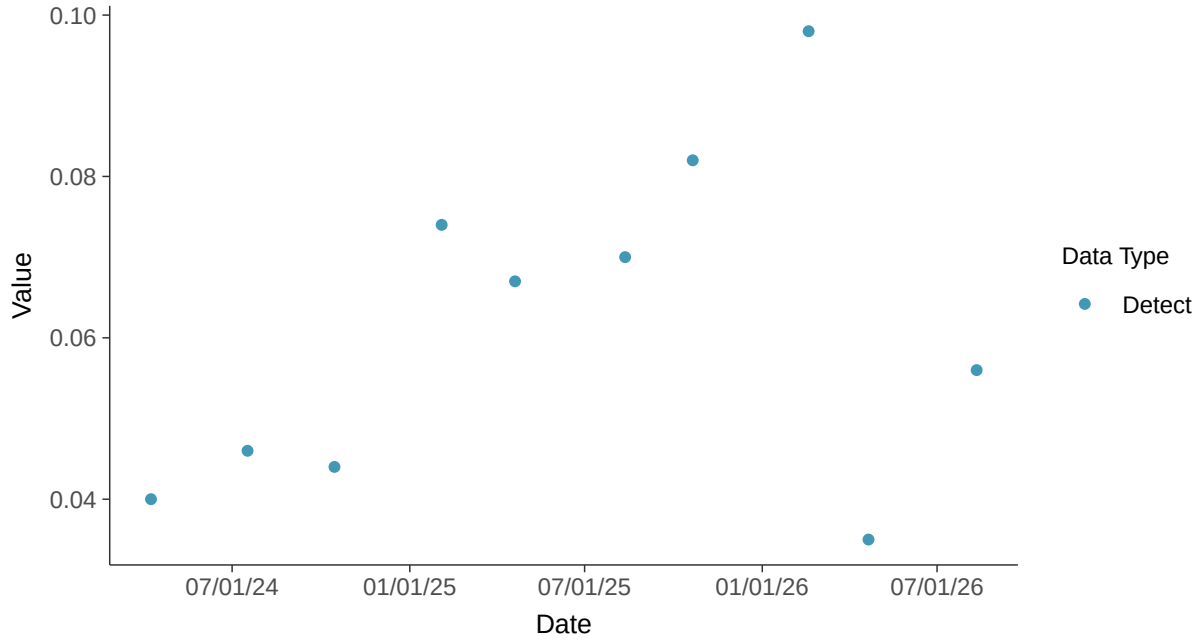


Appendix IV: Barium, MW-37

ID: 47_1_4_103

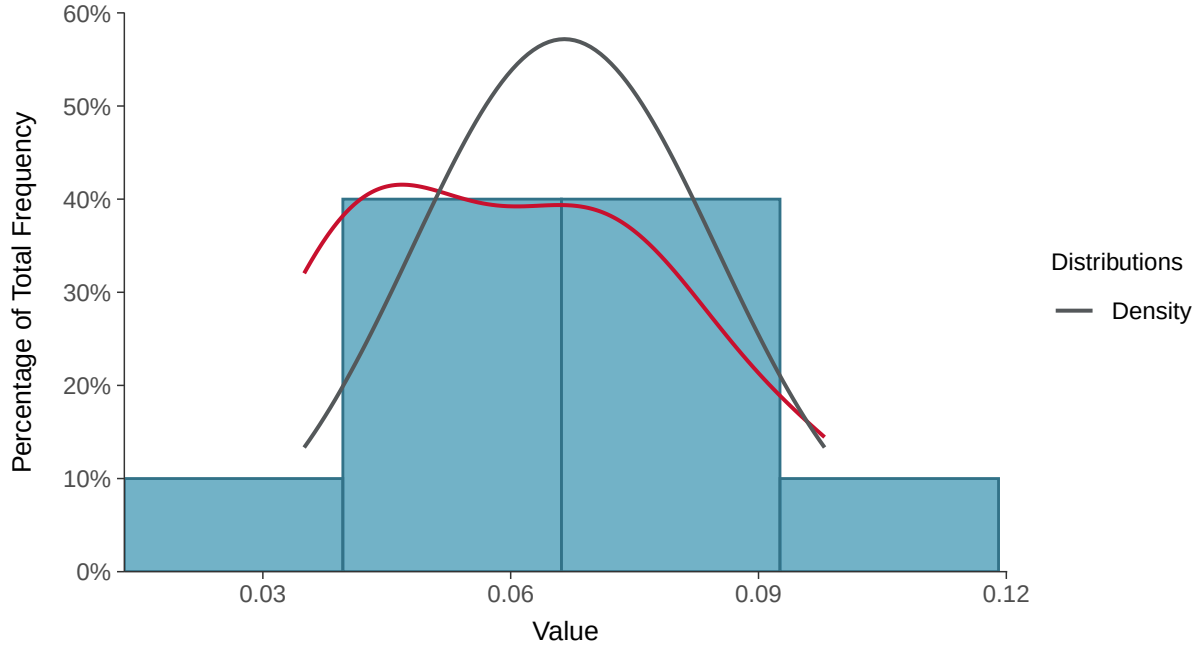
Scatter Plot

Barium, MW-37 (mg/L)



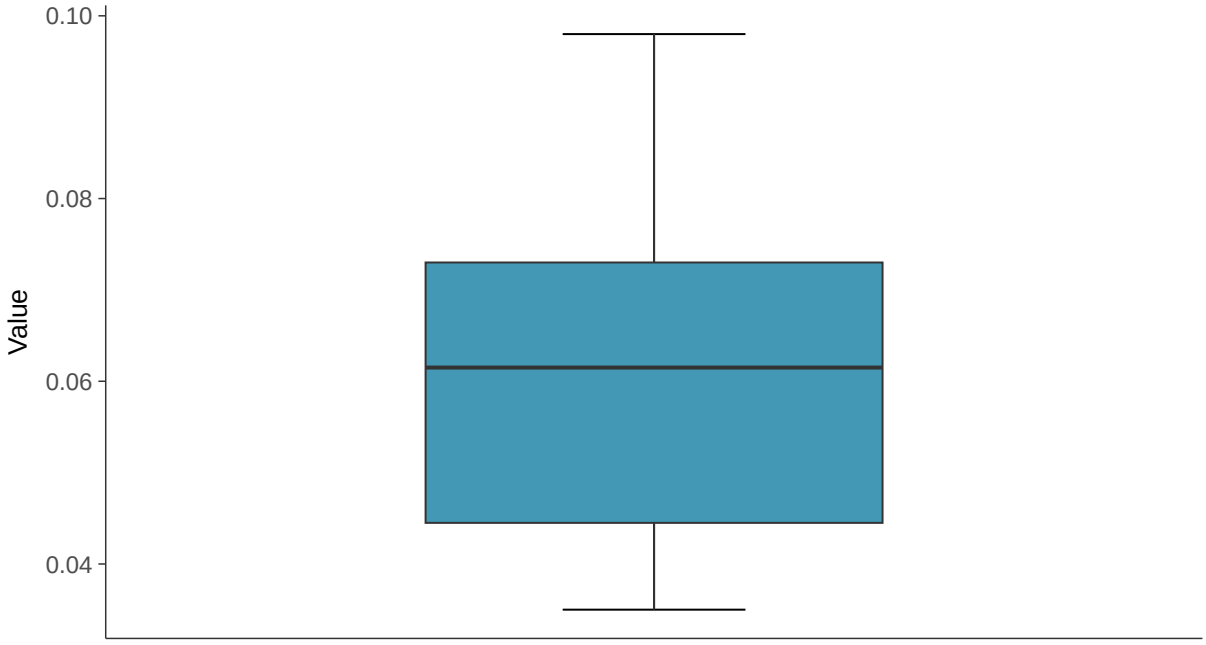
Histogram

Barium, MW-37 (mg/L)



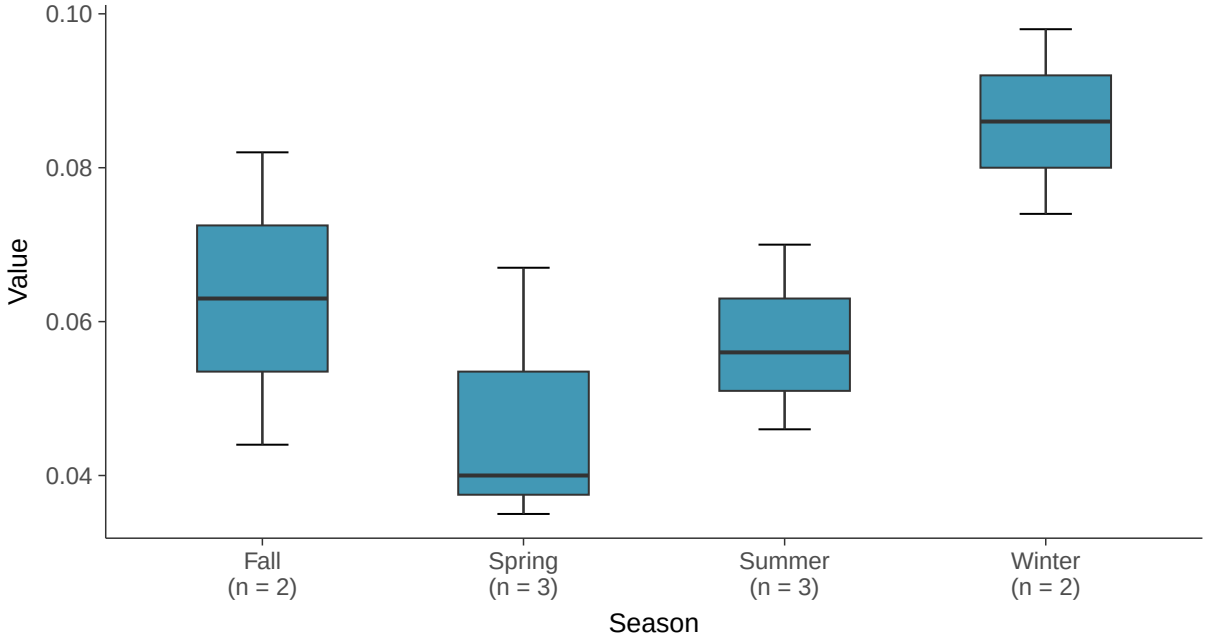
Boxplot

Barium, MW-37 (mg/L)



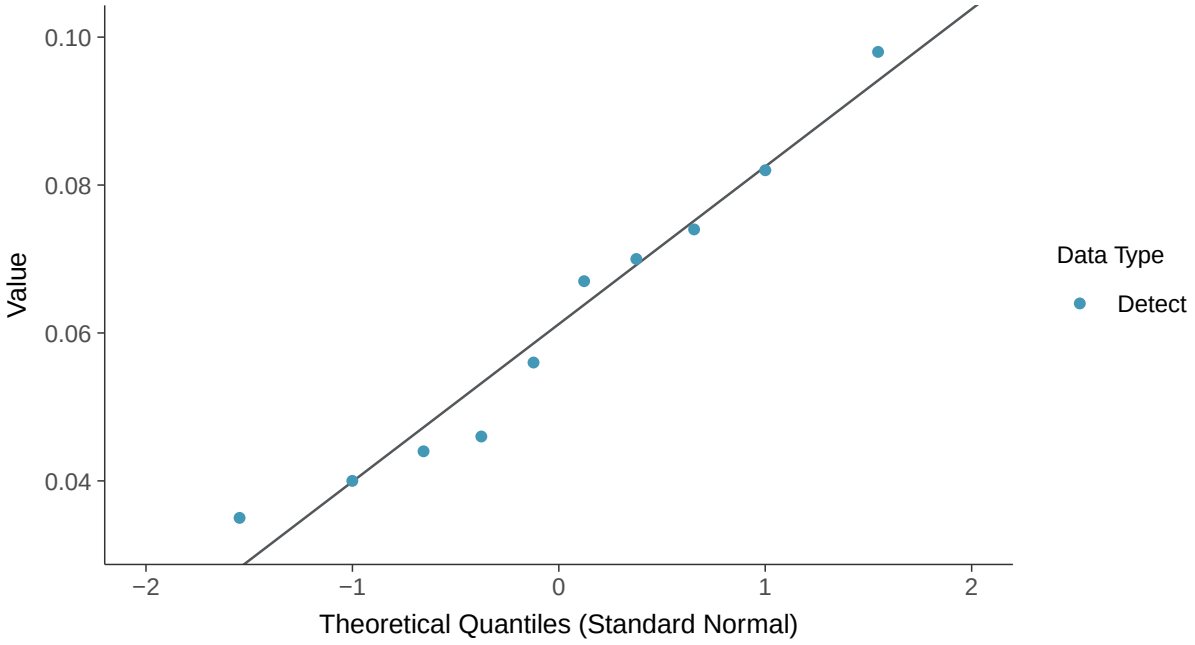
Boxplot by Season

Barium, MW-37 (mg/L)



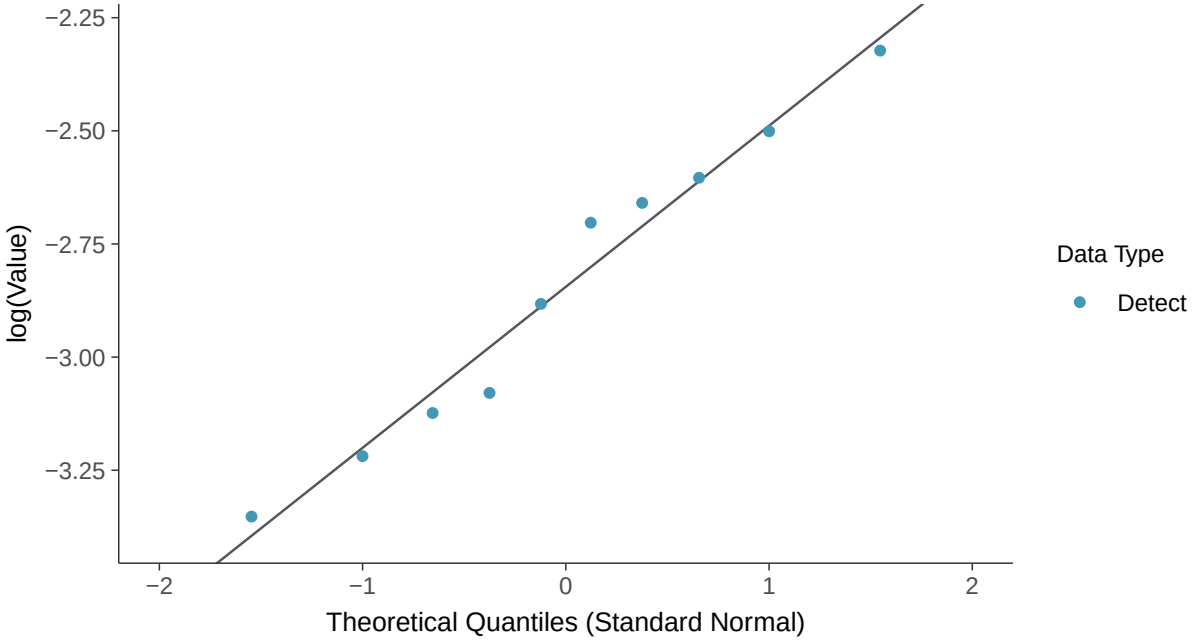
Normal Q-Q plot

Barium, MW-37 (mg/L)



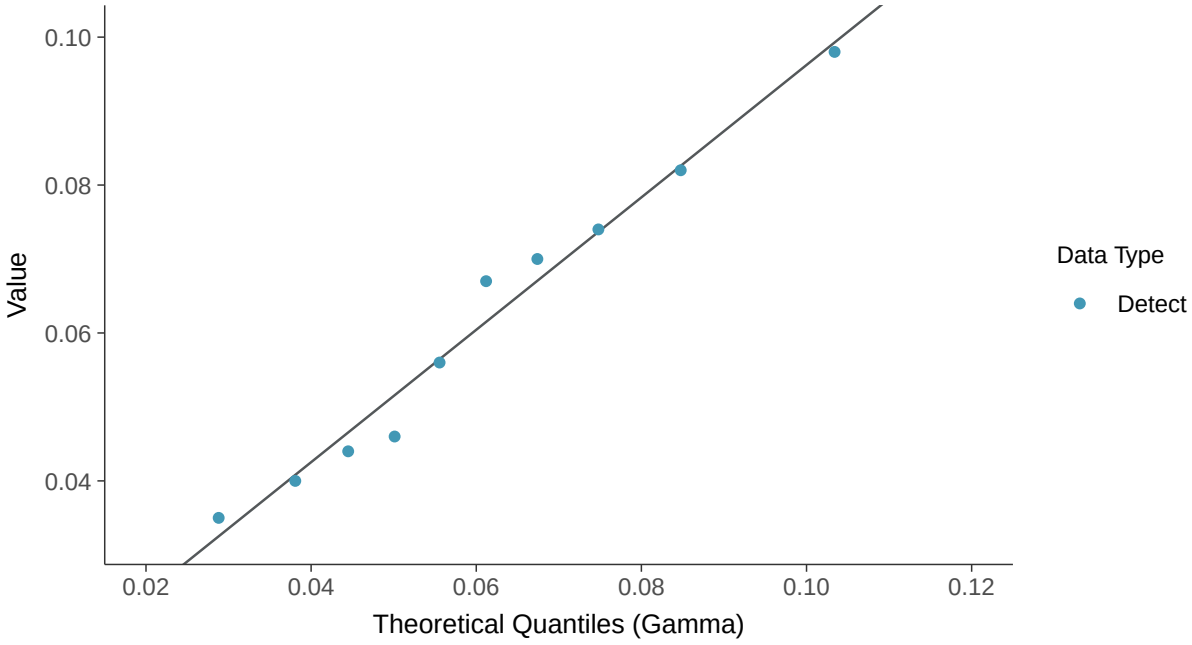
Lognormal Q-Q plot

Barium, MW-37 (mg/L)



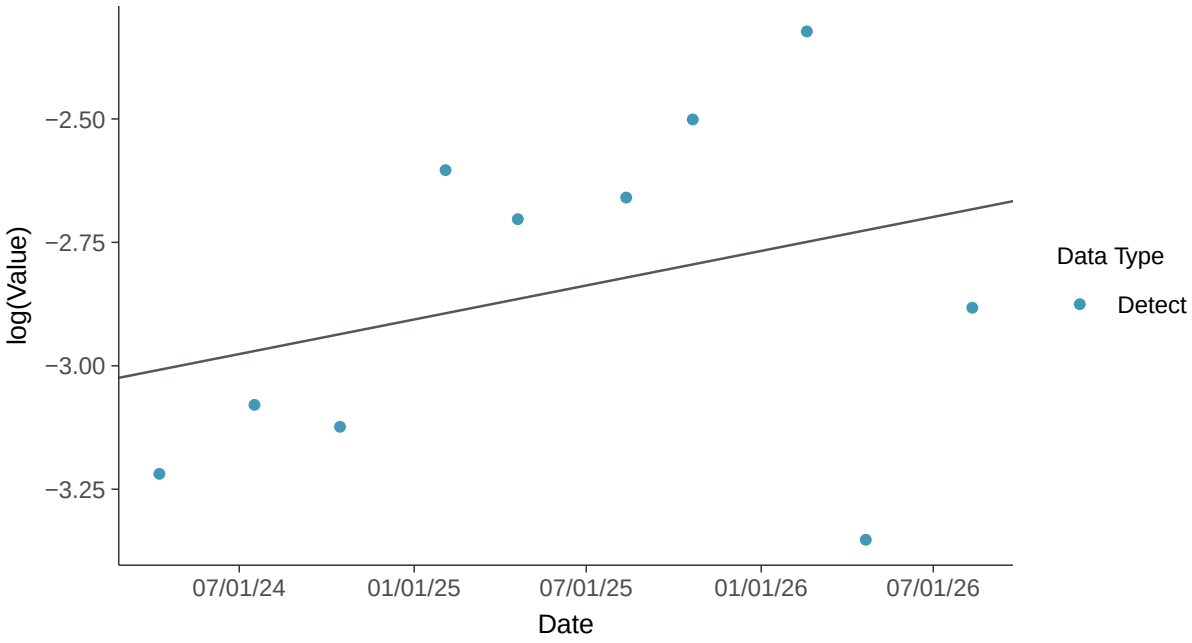
Gamma Q-Q plot

Barium, MW-37 (mg/L)



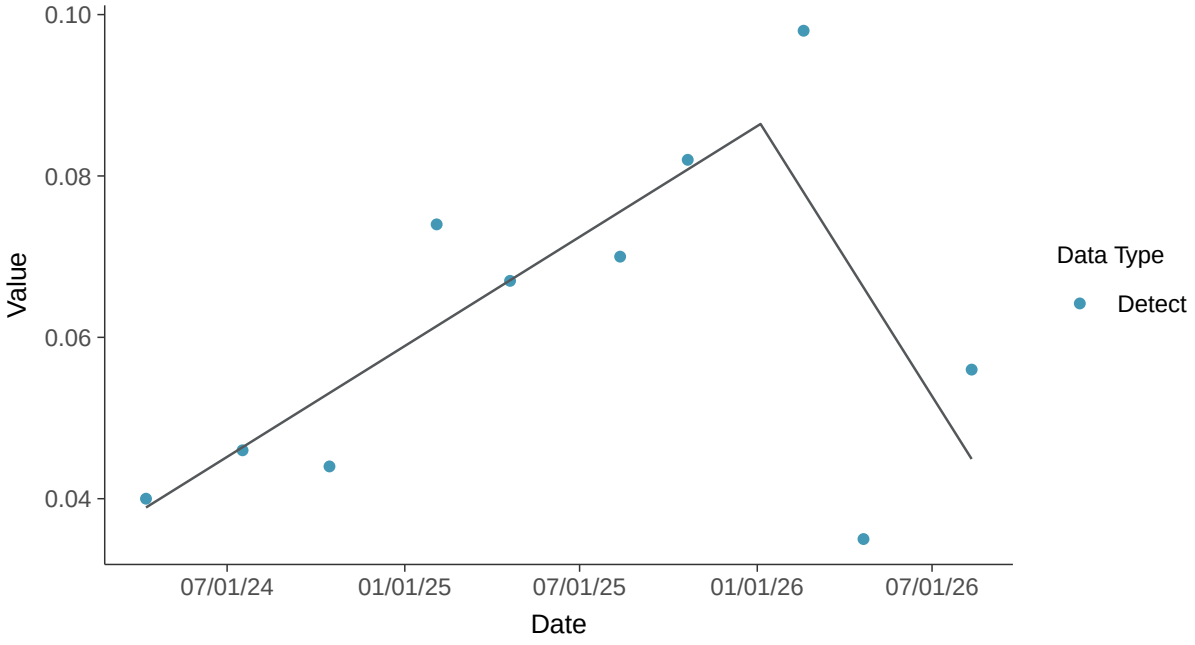
Trend Regression: Lognormal MLE

Barium, MW-37 (mg/L)



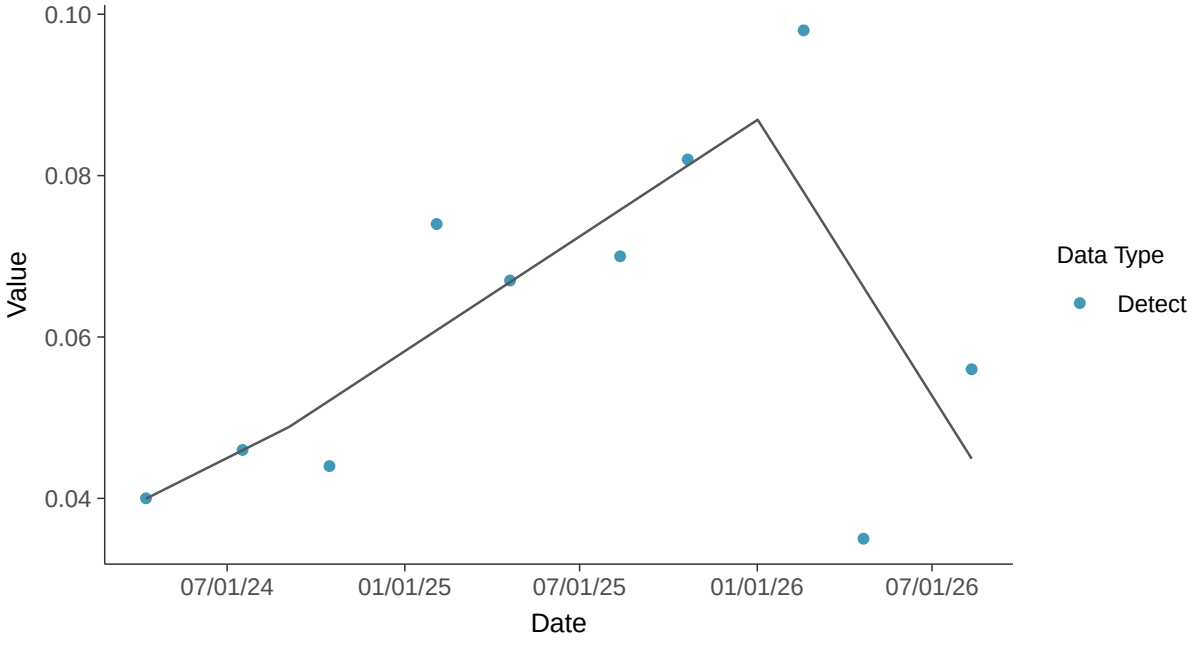
Trend Regression: Piecewise Linear-Linear

Barium, MW-37 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Barium, MW-37 (mg/L)

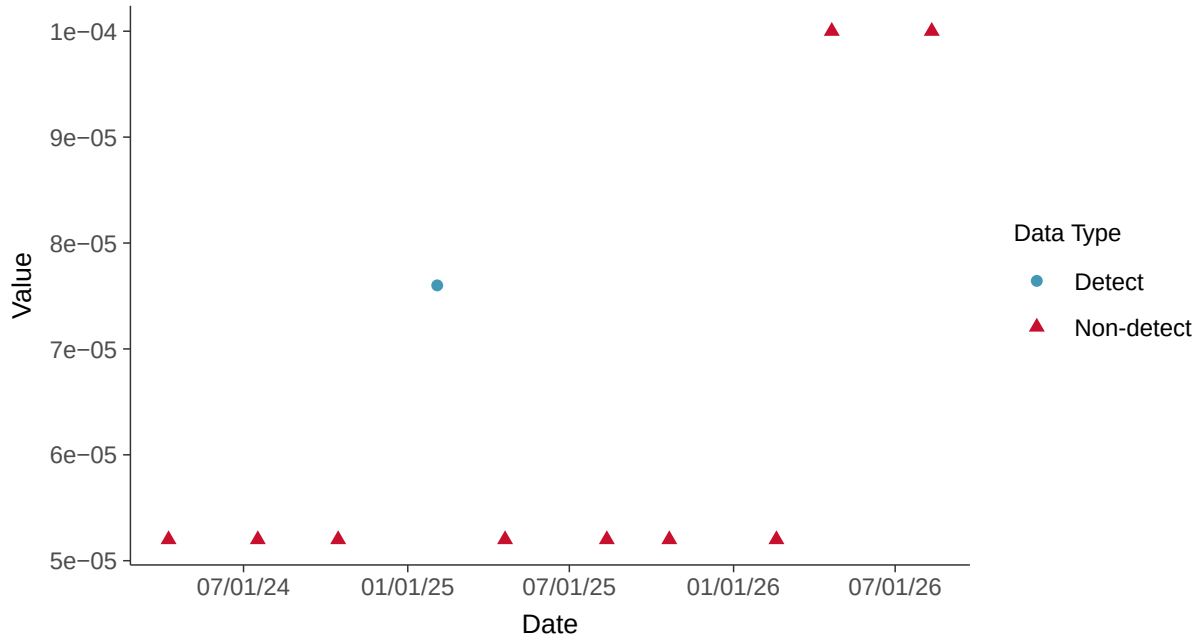


Appendix IV: Beryllium, MW-37

ID: 47_1_4_104

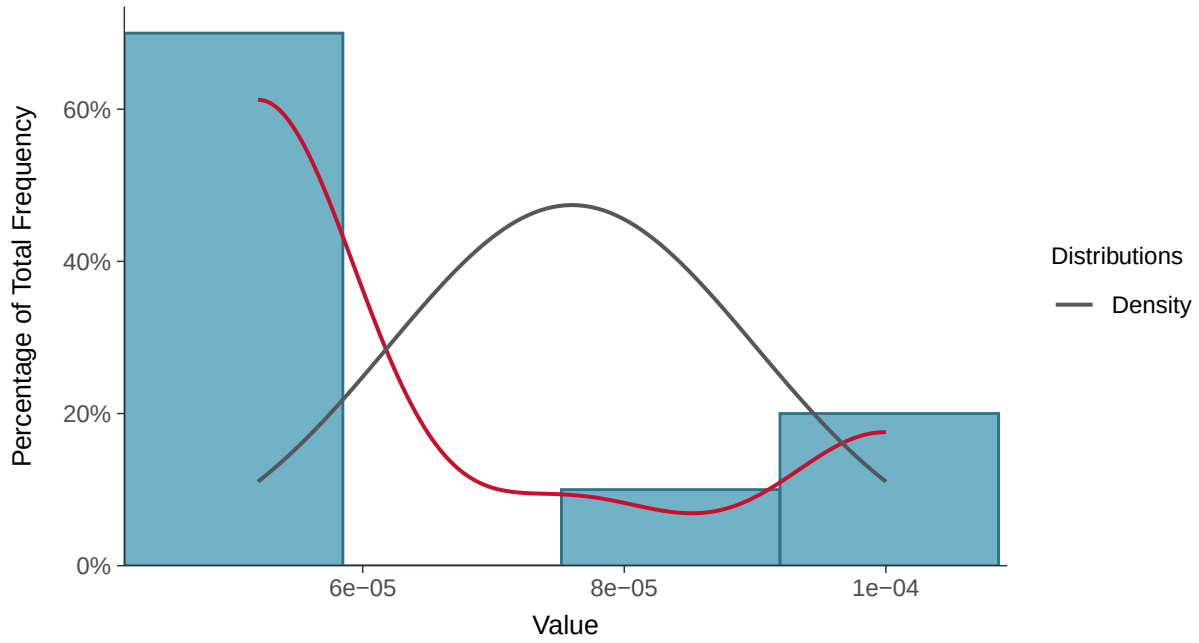
Scatter Plot

Beryllium, MW-37 (mg/L)



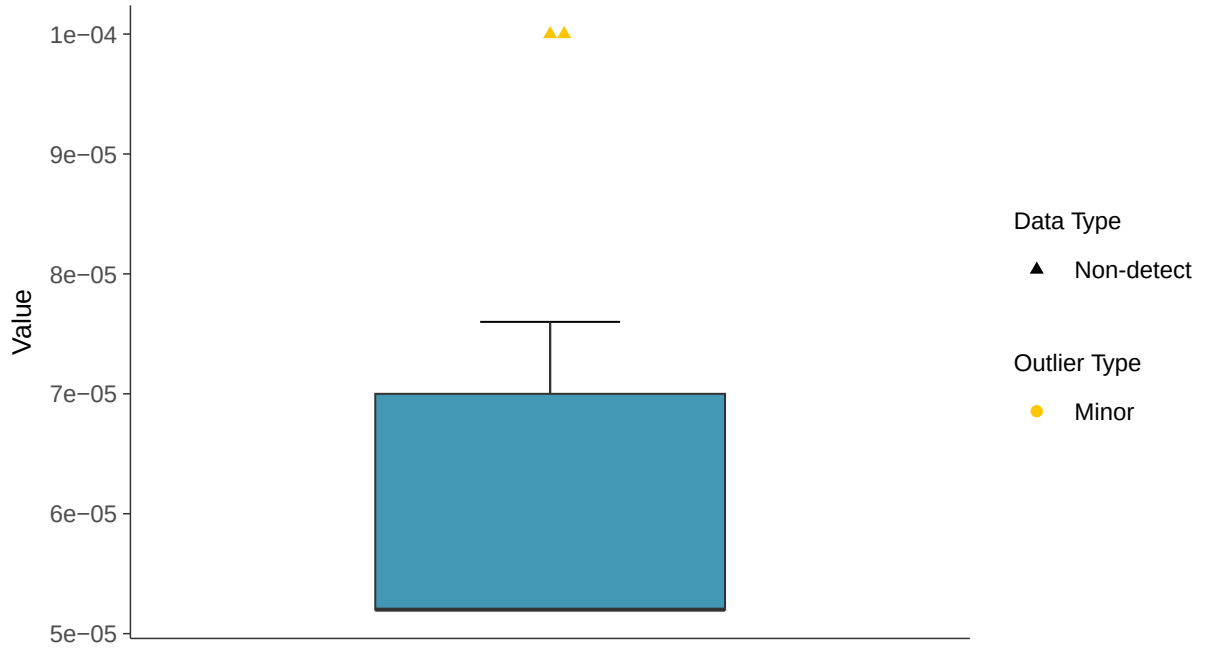
Histogram

Beryllium, MW-37 (mg/L)



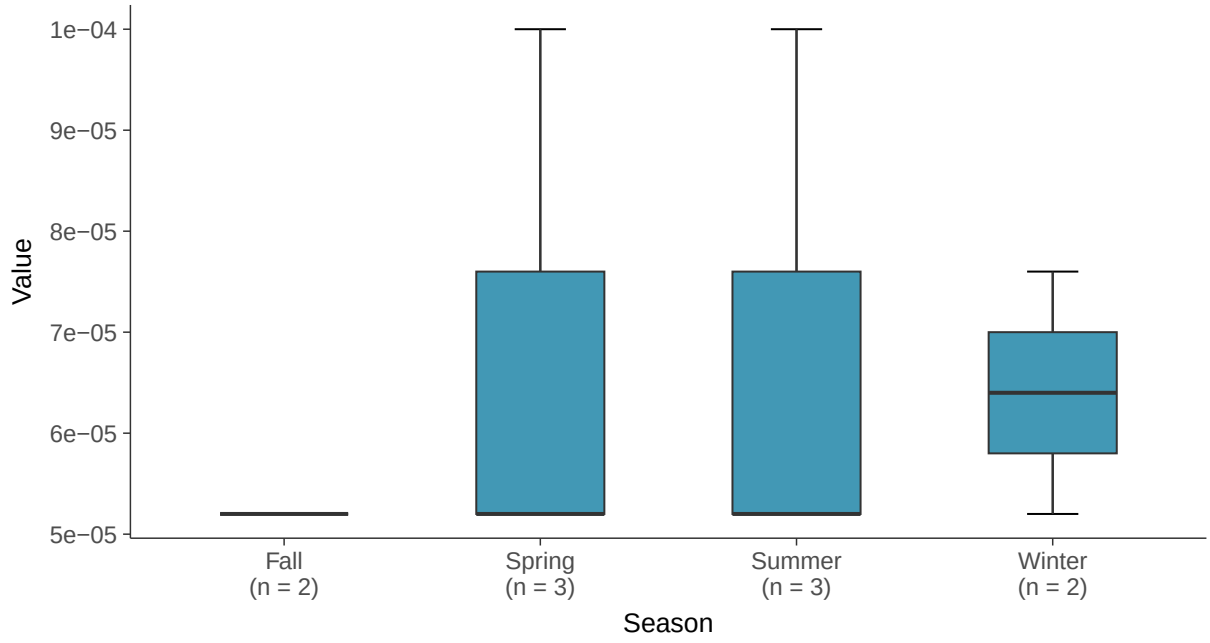
Boxplot

Beryllium, MW-37 (mg/L)



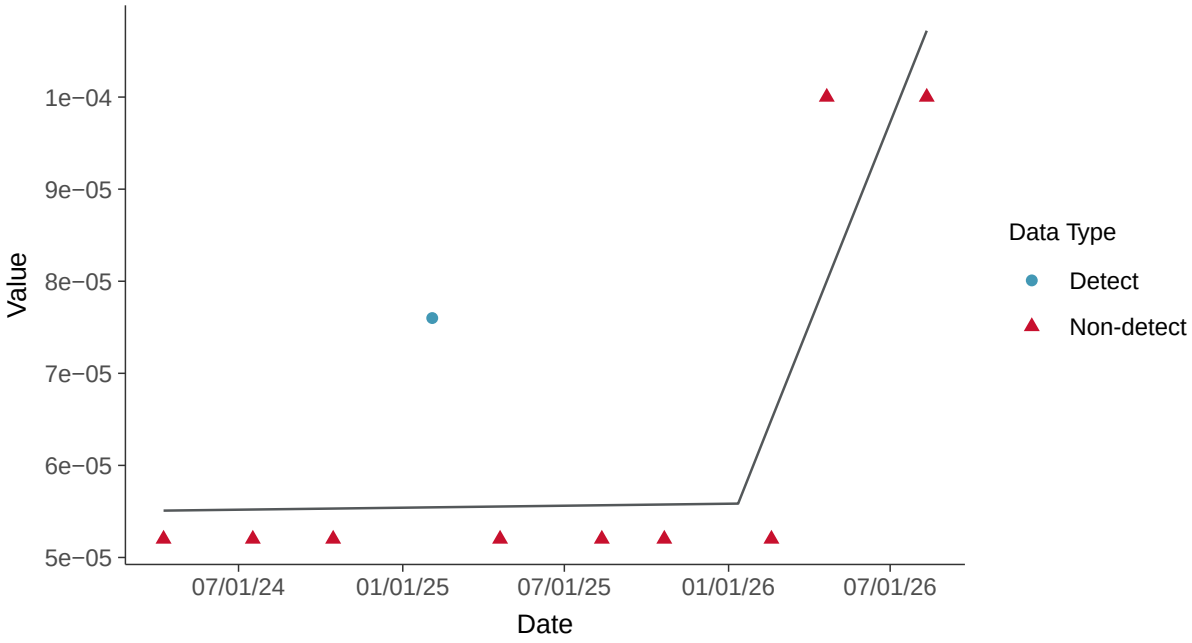
Boxplot by Season

Beryllium, MW-37 (mg/L)



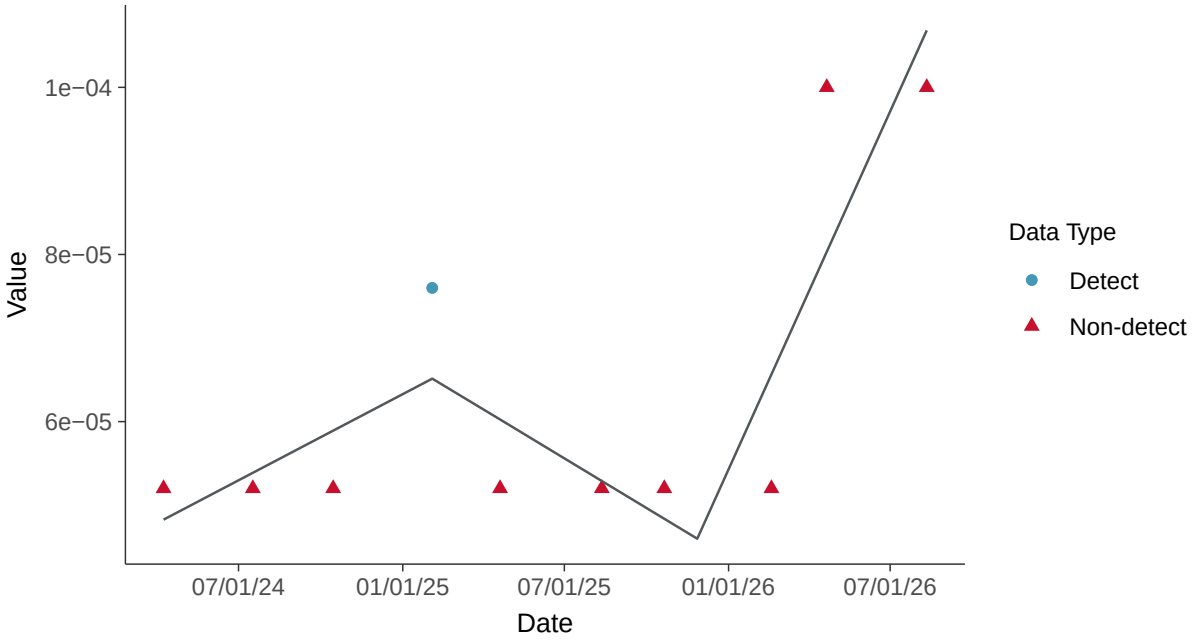
Trend Regression: Piecewise Linear-Linear

Beryllium, MW-37 (mg/L)



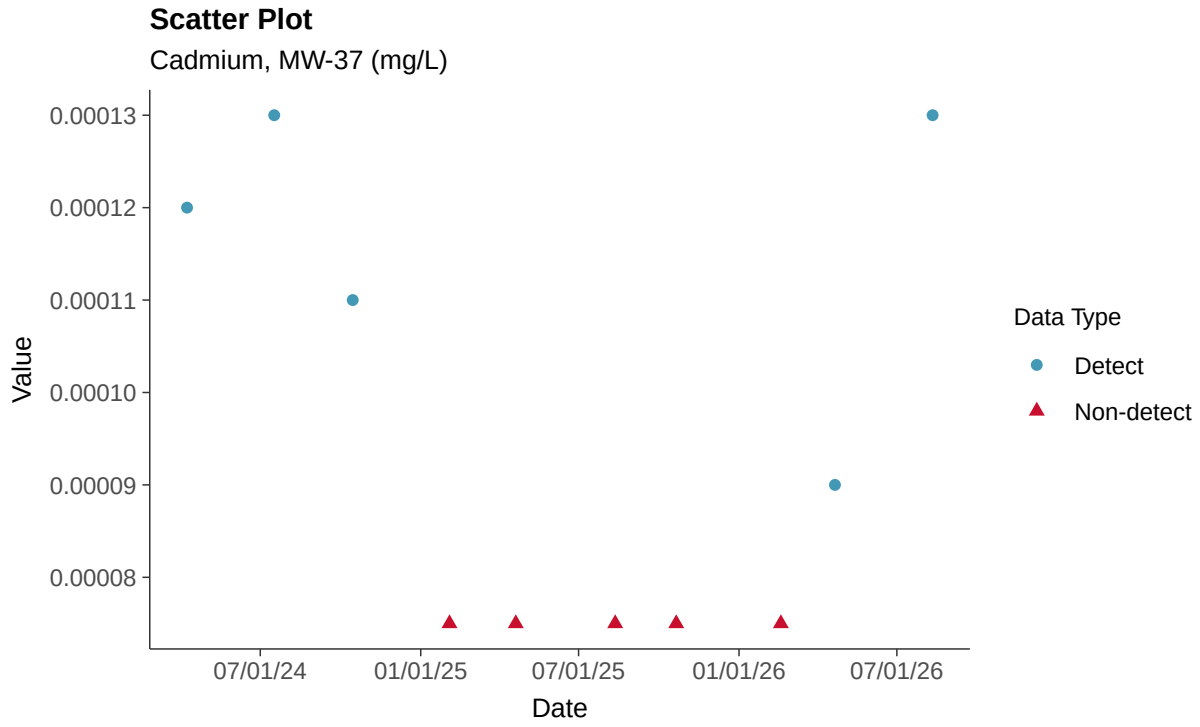
Trend Regression: Piecewise Linear-Linear-Linear

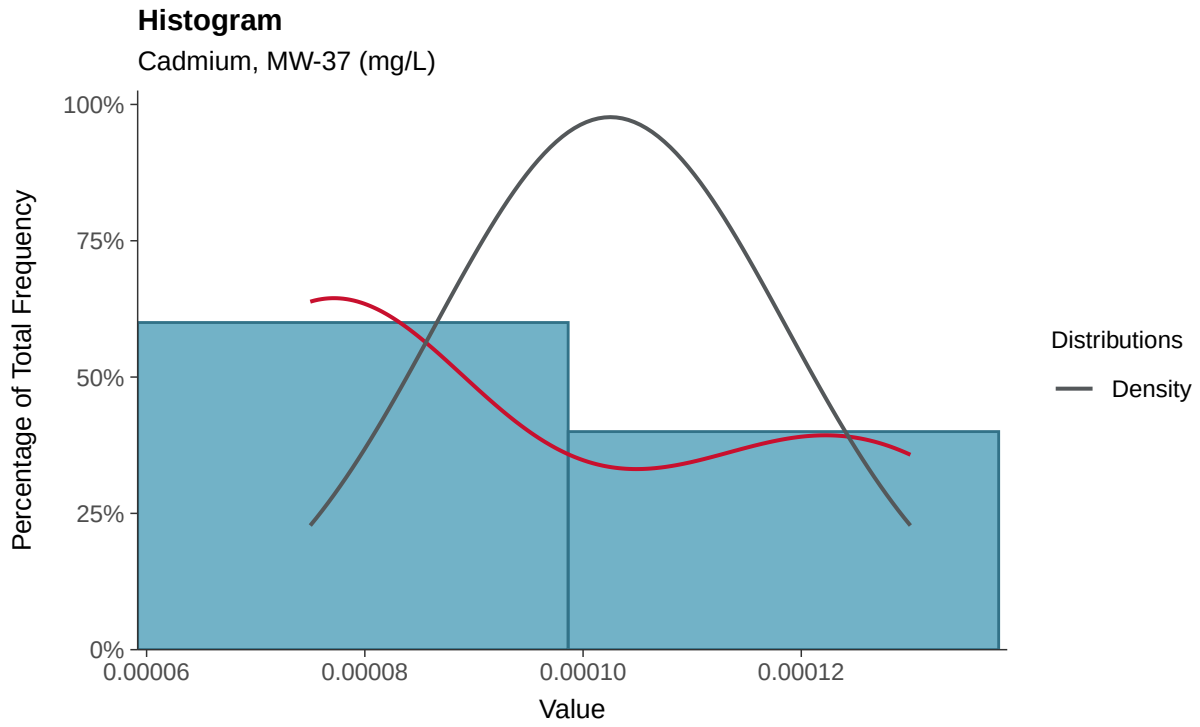
Beryllium, MW-37 (mg/L)



Appendix IV: Cadmium, MW-37

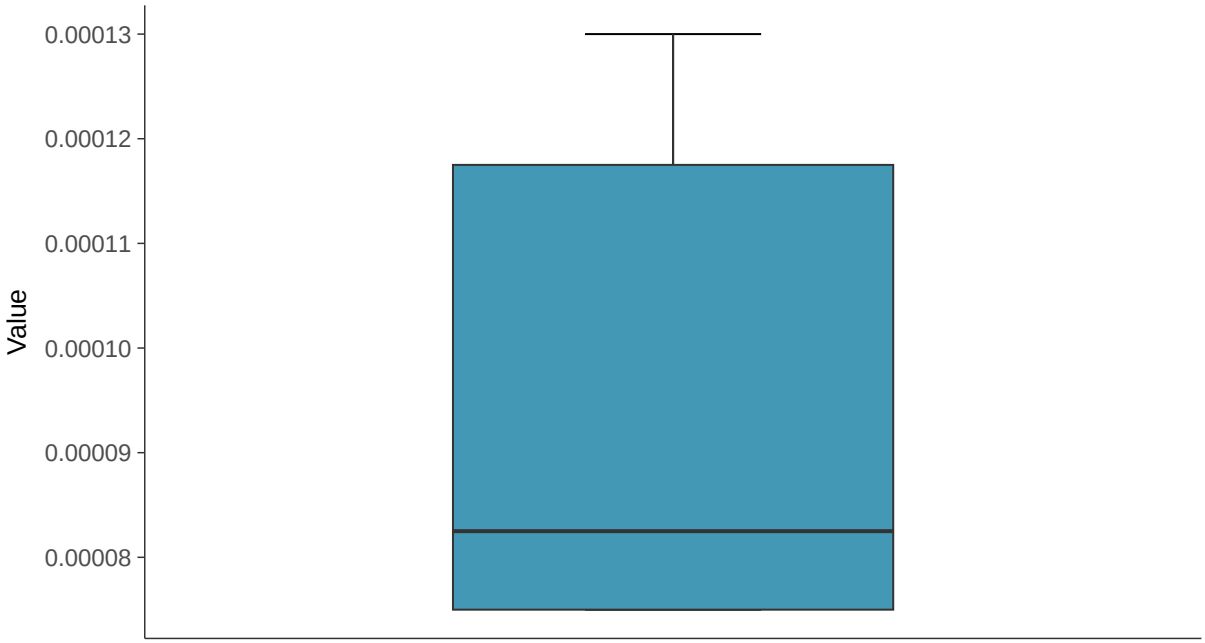
ID: 47_1_4_106





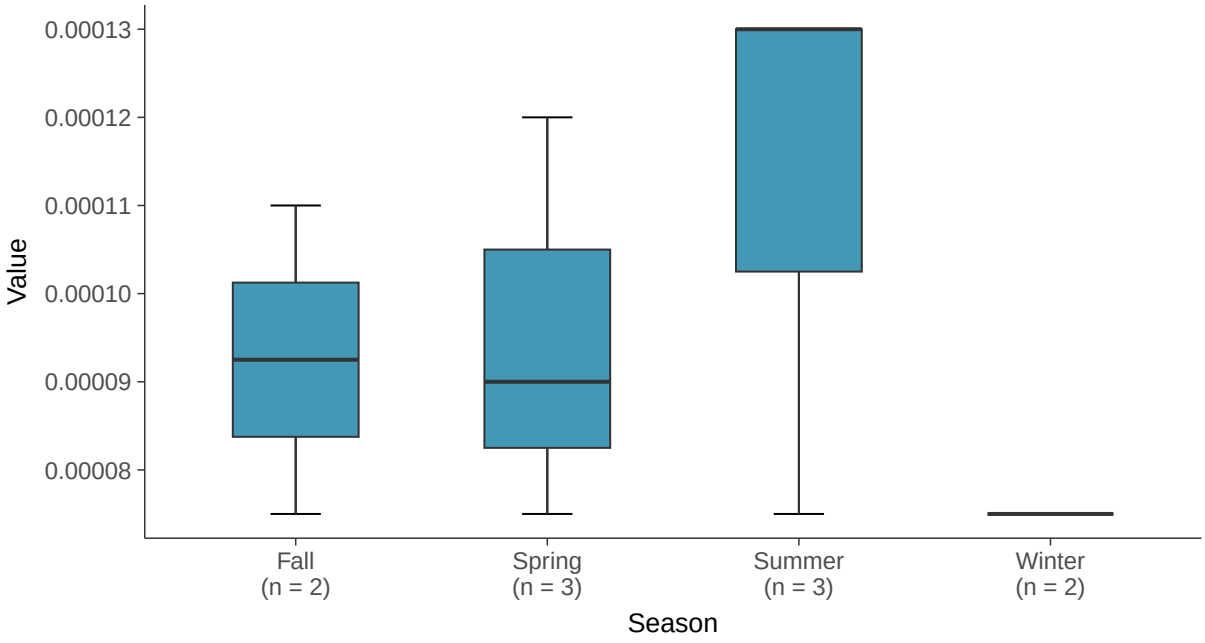
Boxplot

Cadmium, MW-37 (mg/L)



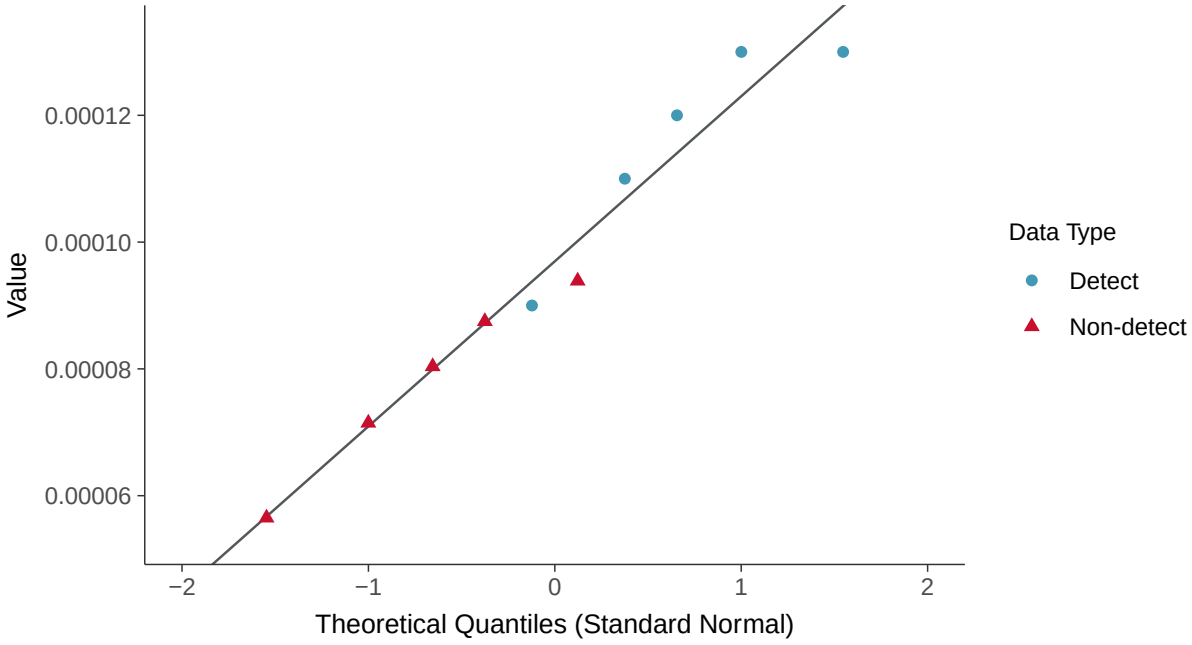
Boxplot by Season

Cadmium, MW-37 (mg/L)



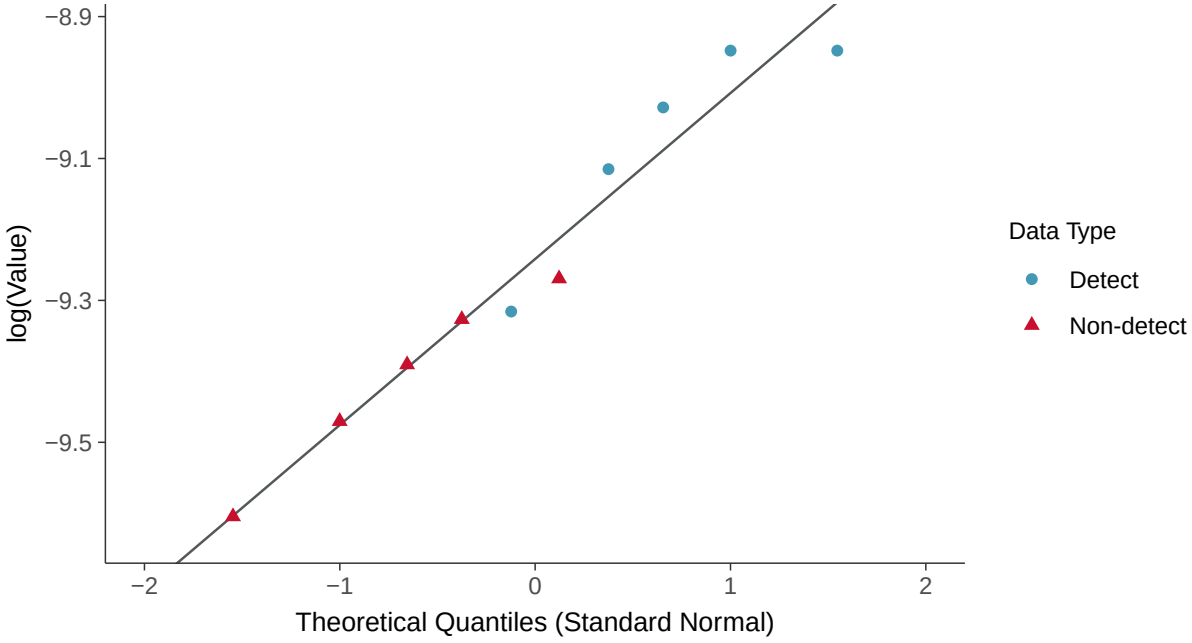
Normal Q-Q plot using ROS Imputed Estimates

Cadmium, MW-37 (mg/L)



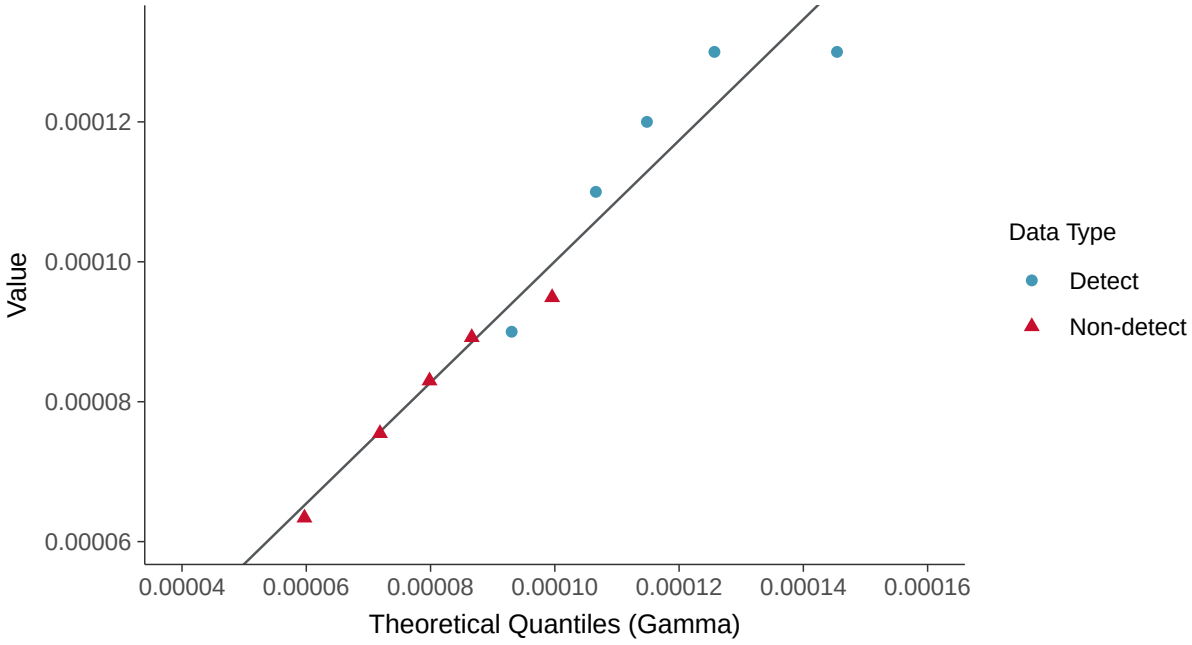
Lognormal Q-Q plot using ROS Imputed Estimates

Cadmium, MW-37 (mg/L)



Gamma Q-Q plot using ROS Imputed Estimates

Cadmium, MW-37 (mg/L)

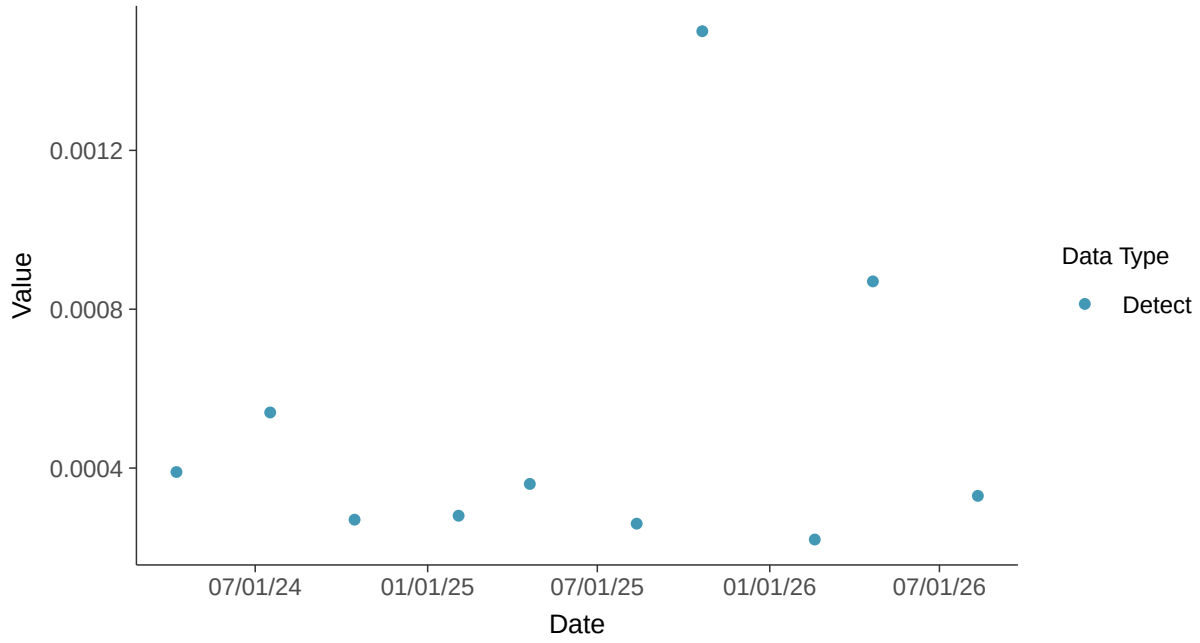


Appendix IV: Chromium, Total, MW-37

ID: 47_1_4_109

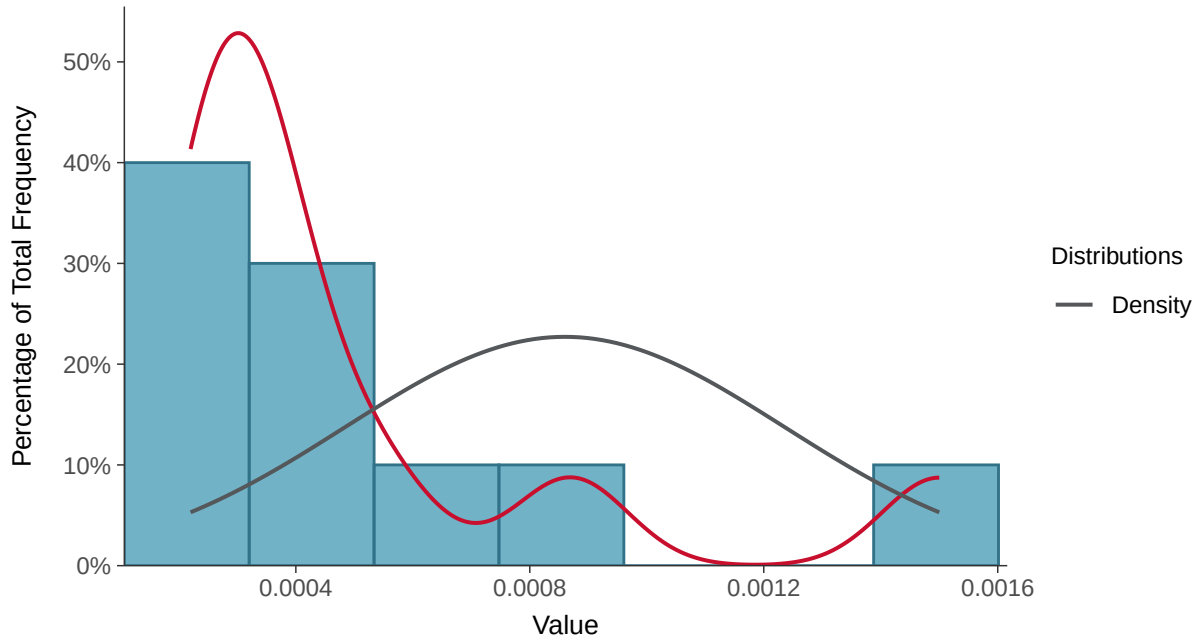
Scatter Plot

Chromium, Total, MW-37 (mg/L)



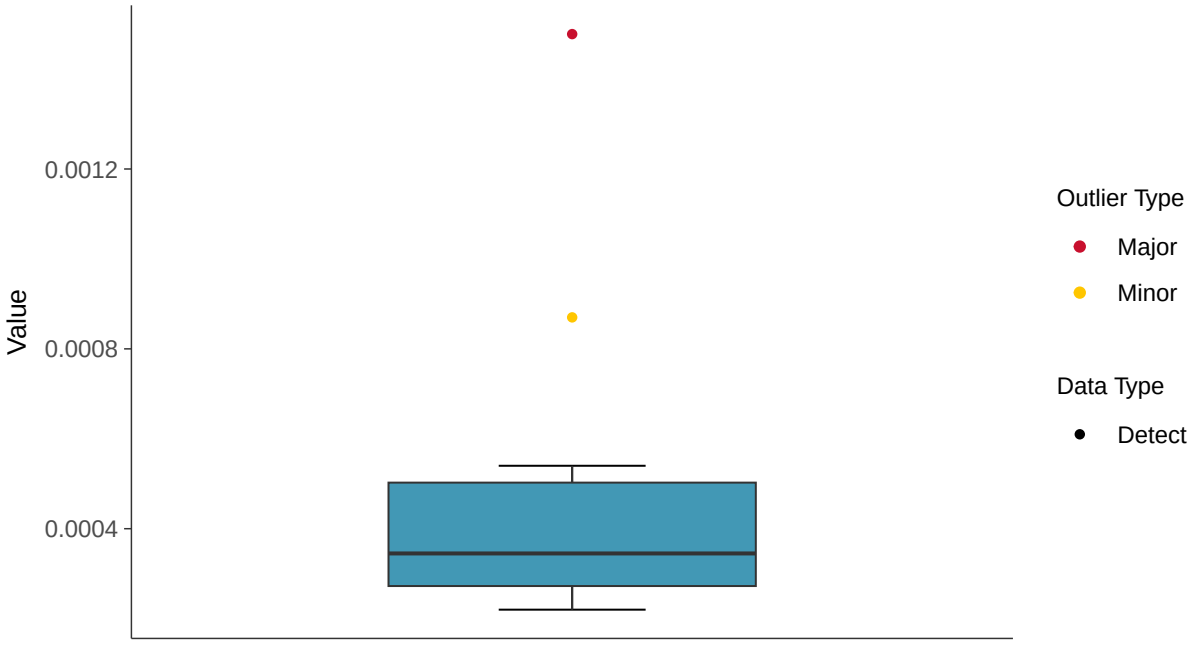
Histogram

Chromium, Total, MW-37 (mg/L)



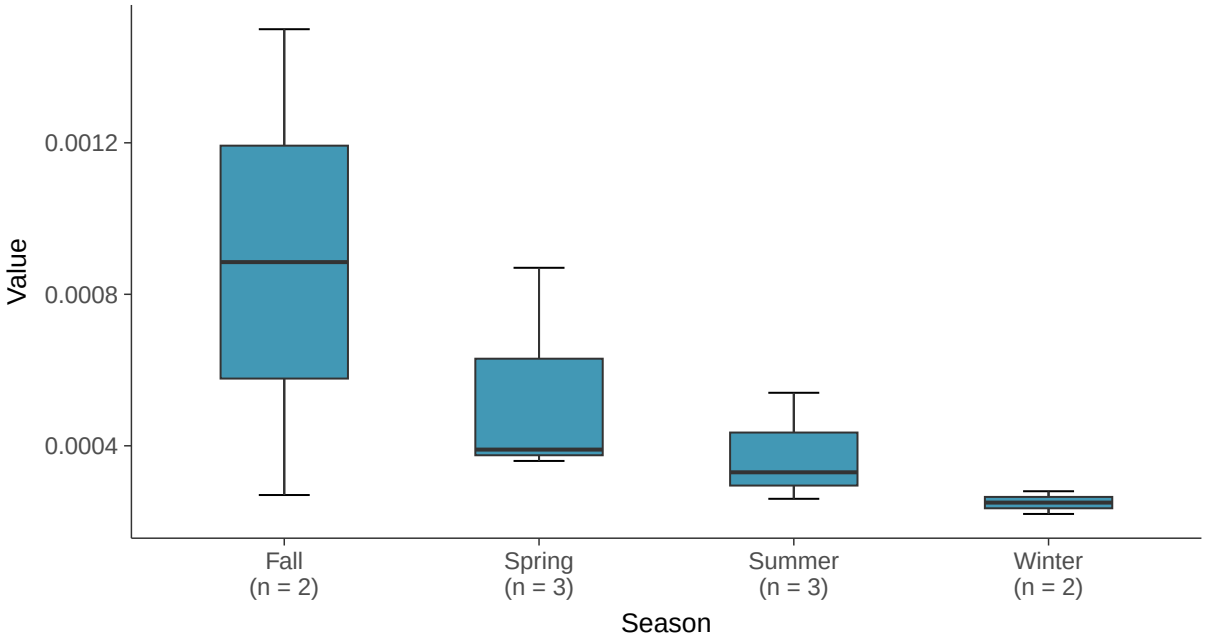
Boxplot

Chromium, Total, MW-37 (mg/L)



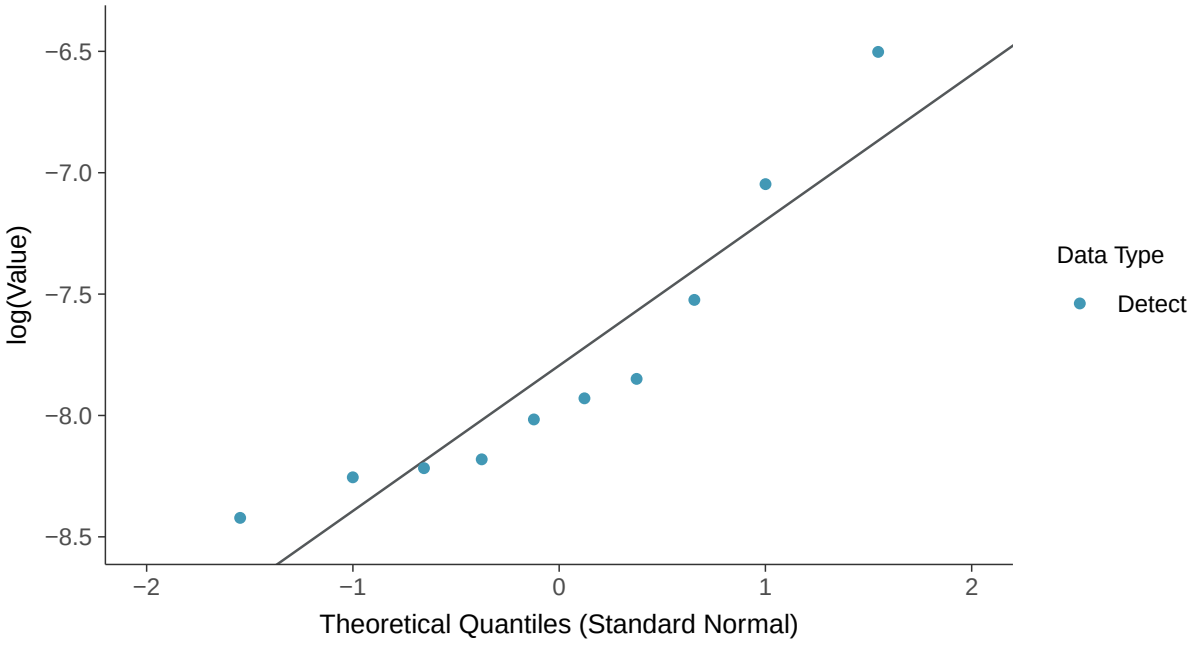
Boxplot by Season

Chromium, Total, MW-37 (mg/L)



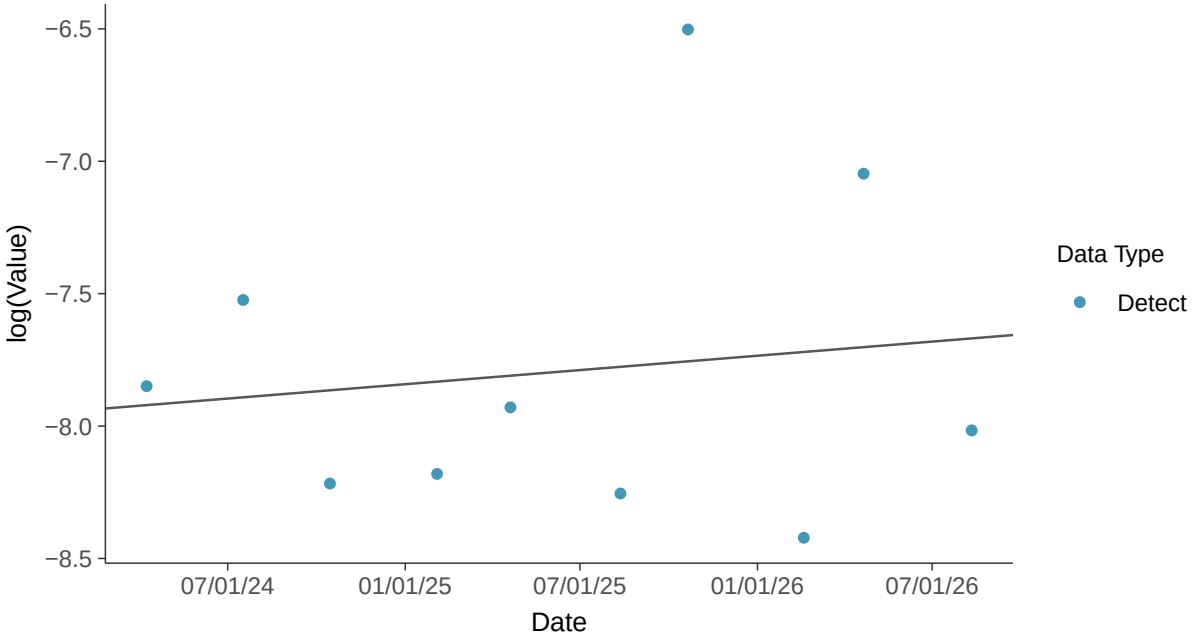
Lognormal Q-Q plot

Chromium, Total, MW-37 (mg/L)



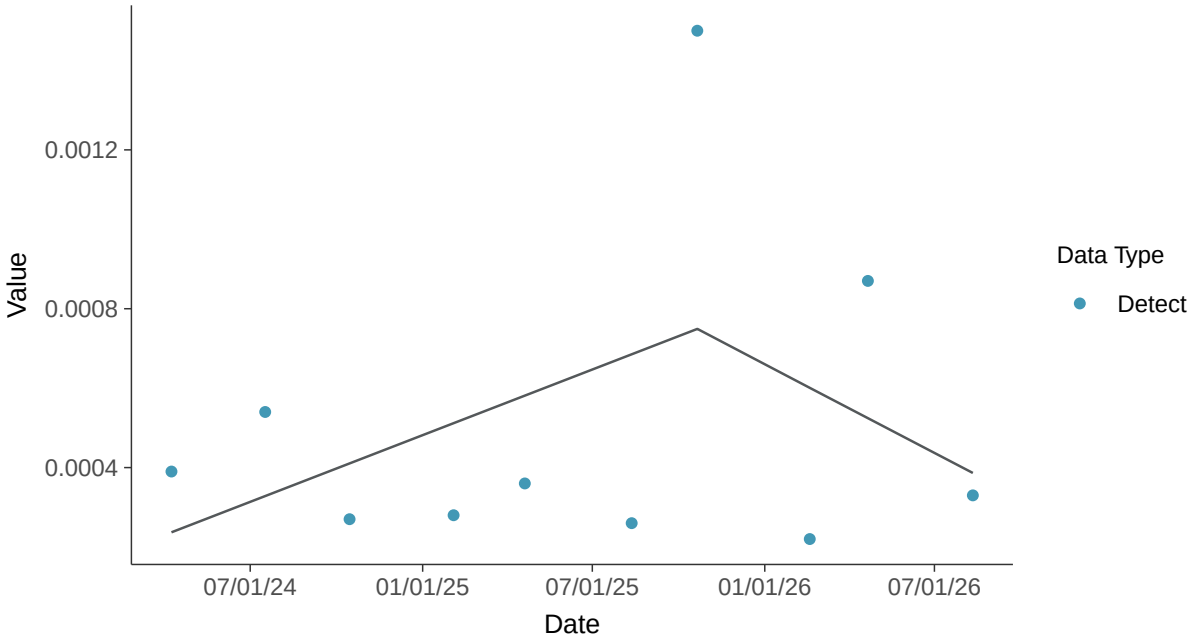
Trend Regression: Lognormal MLE

Chromium, Total, MW-37 (mg/L)



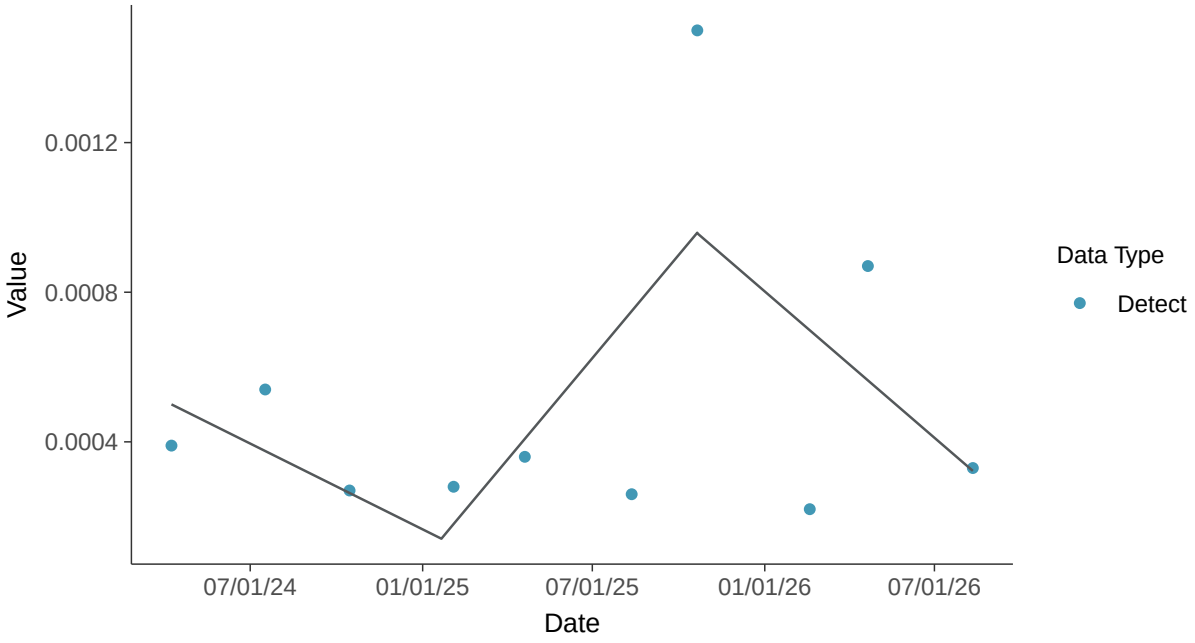
Trend Regression: Piecewise Linear-Linear

Chromium, Total, MW-37 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Chromium, Total, MW-37 (mg/L)

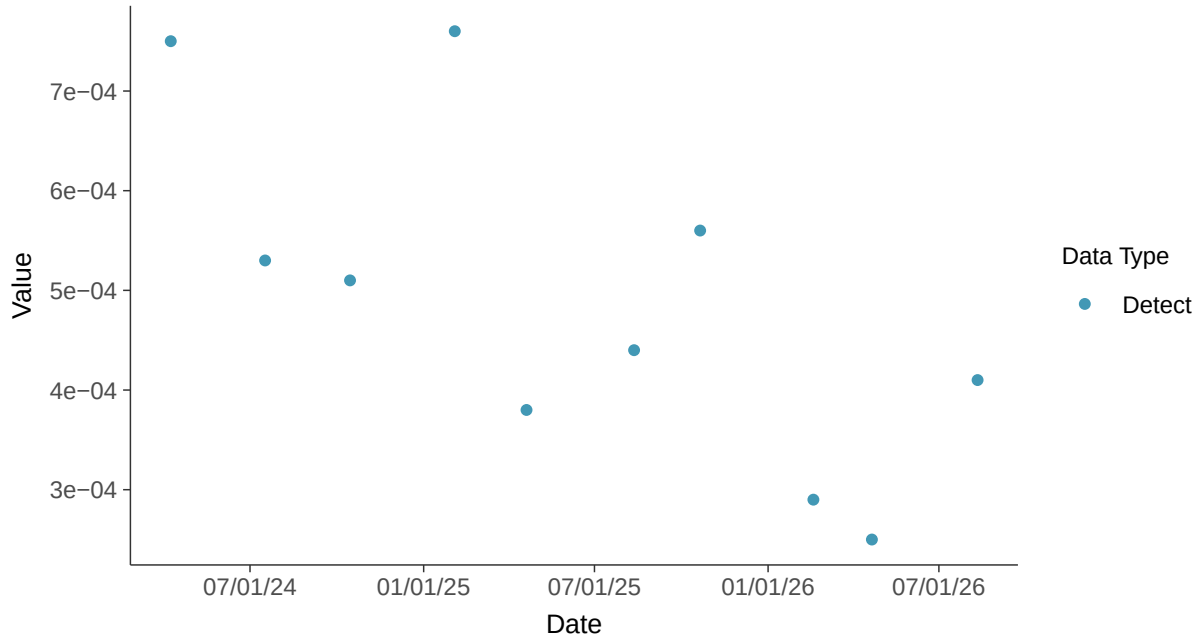


Appendix IV: Cobalt, MW-37

ID: 47_1_4_110

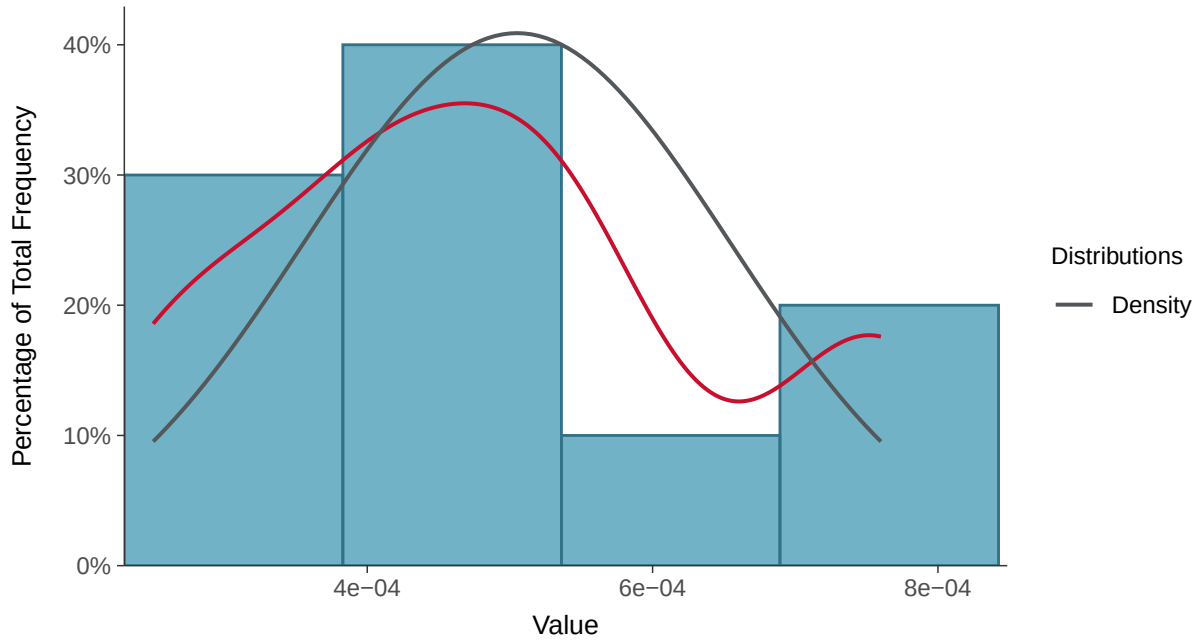
Scatter Plot

Cobalt, MW-37 (mg/L)



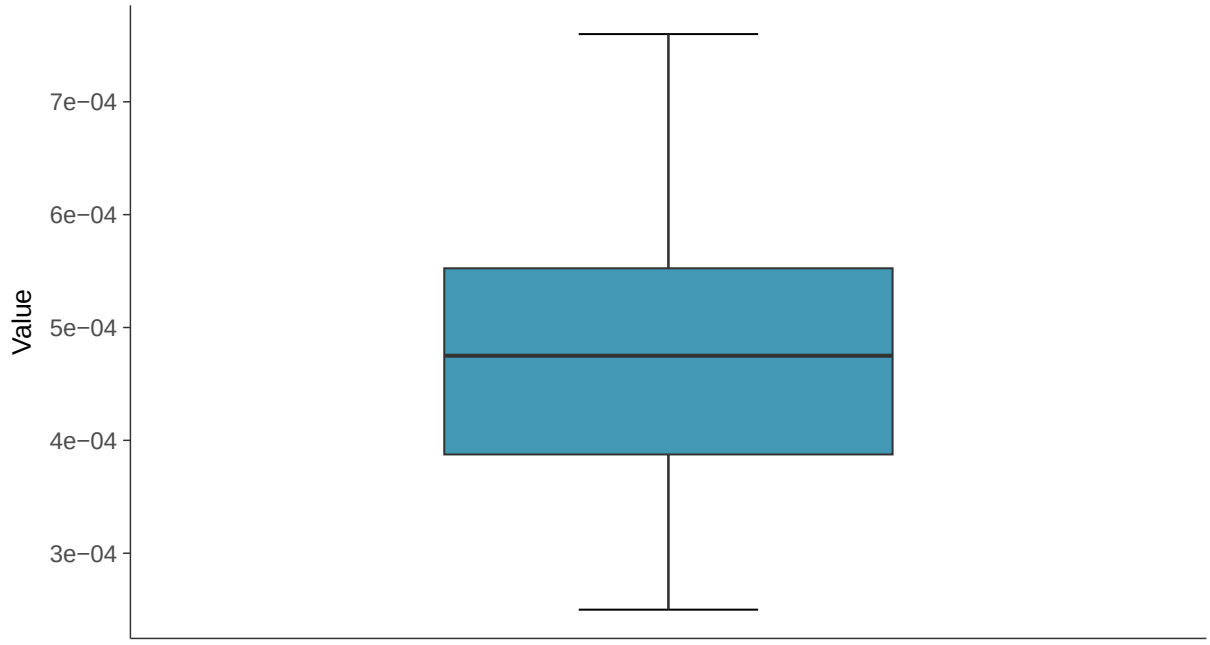
Histogram

Cobalt, MW-37 (mg/L)



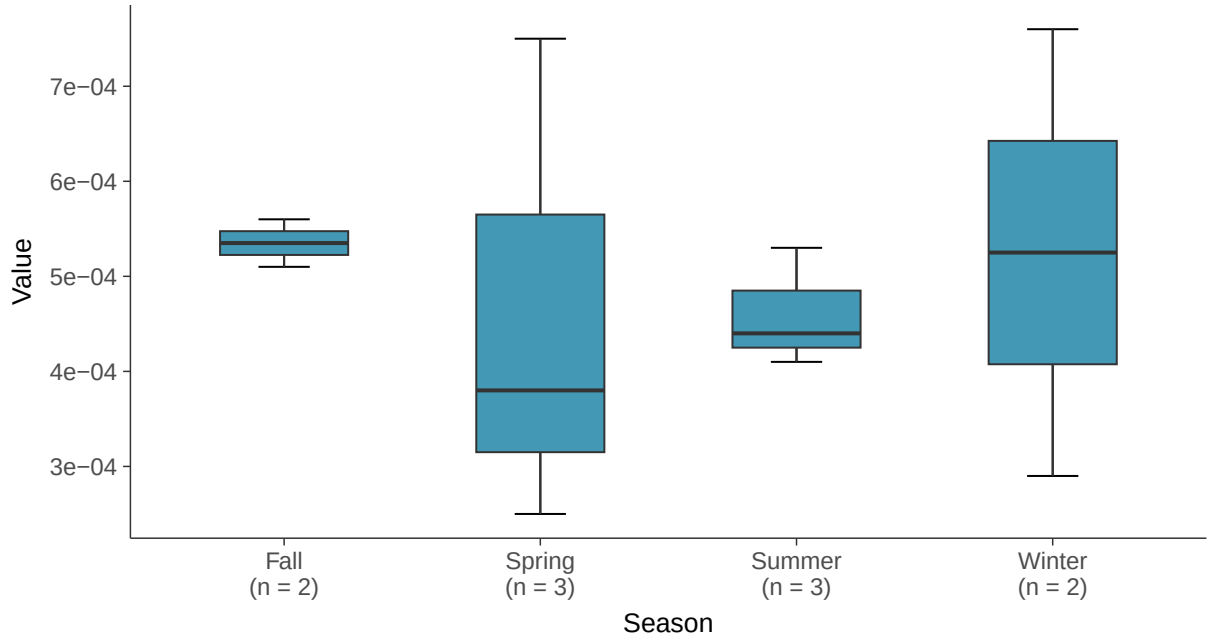
Boxplot

Cobalt, MW-37 (mg/L)



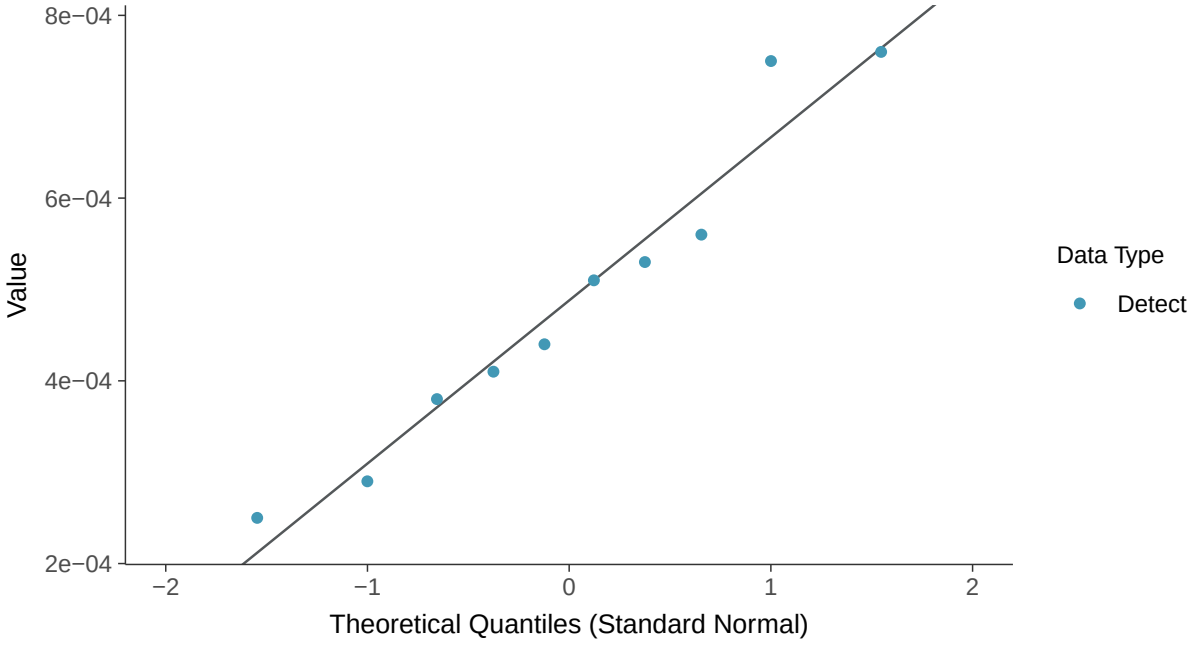
Boxplot by Season

Cobalt, MW-37 (mg/L)



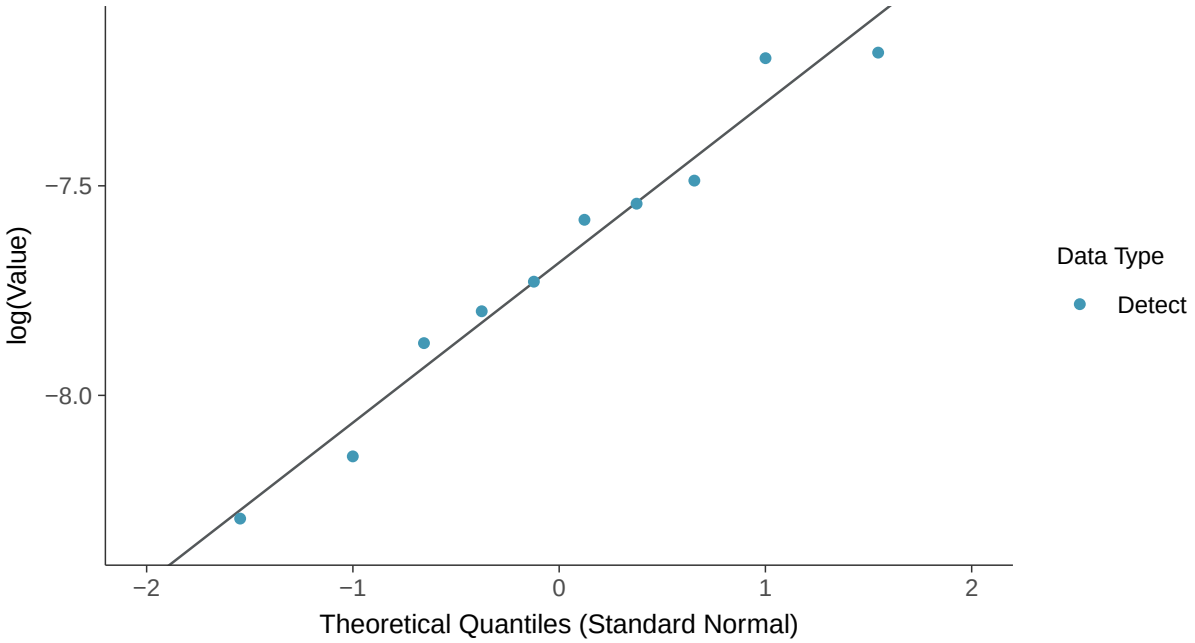
Normal Q-Q plot

Cobalt, MW-37 (mg/L)



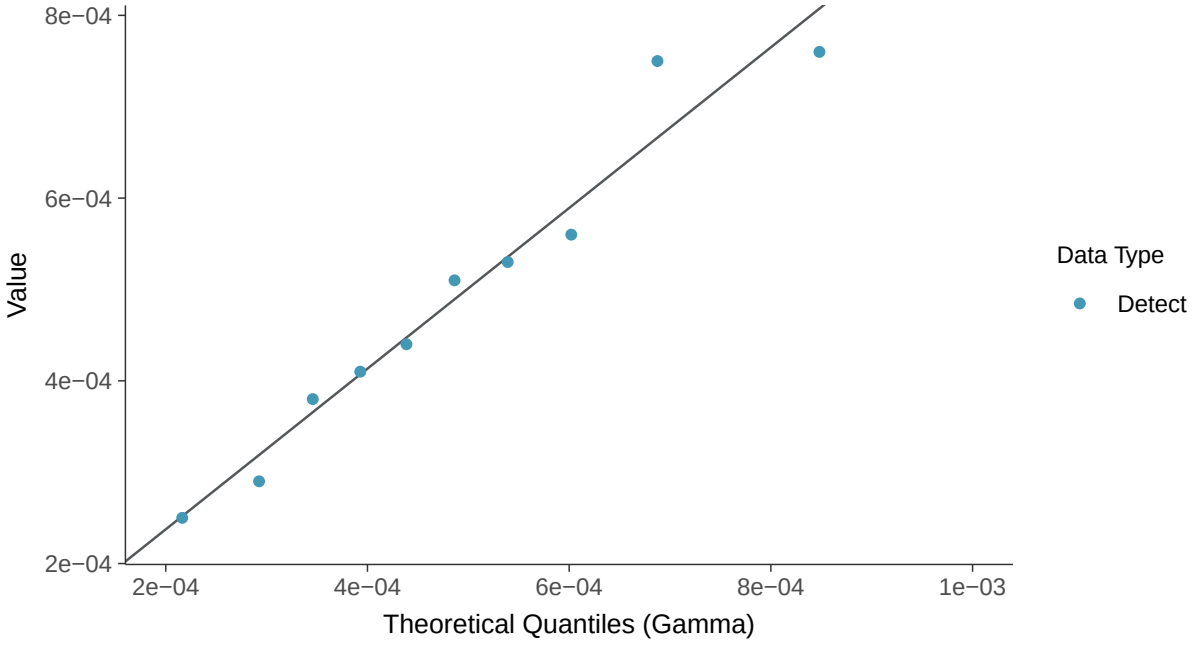
Lognormal Q-Q plot

Cobalt, MW-37 (mg/L)



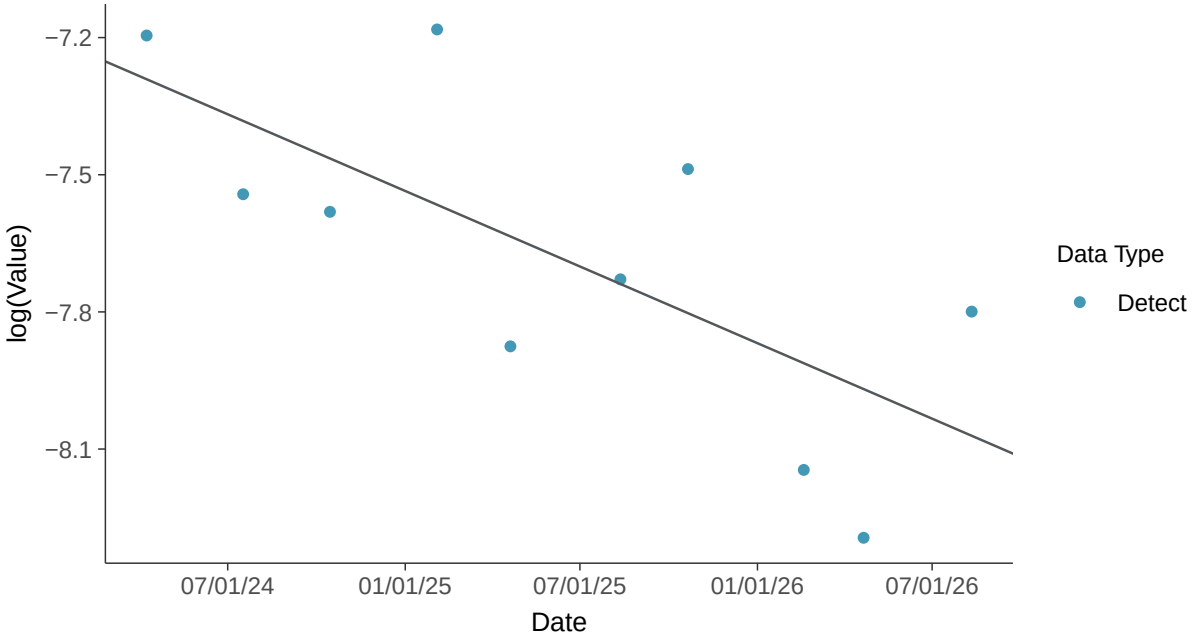
Gamma Q-Q plot

Cobalt, MW-37 (mg/L)



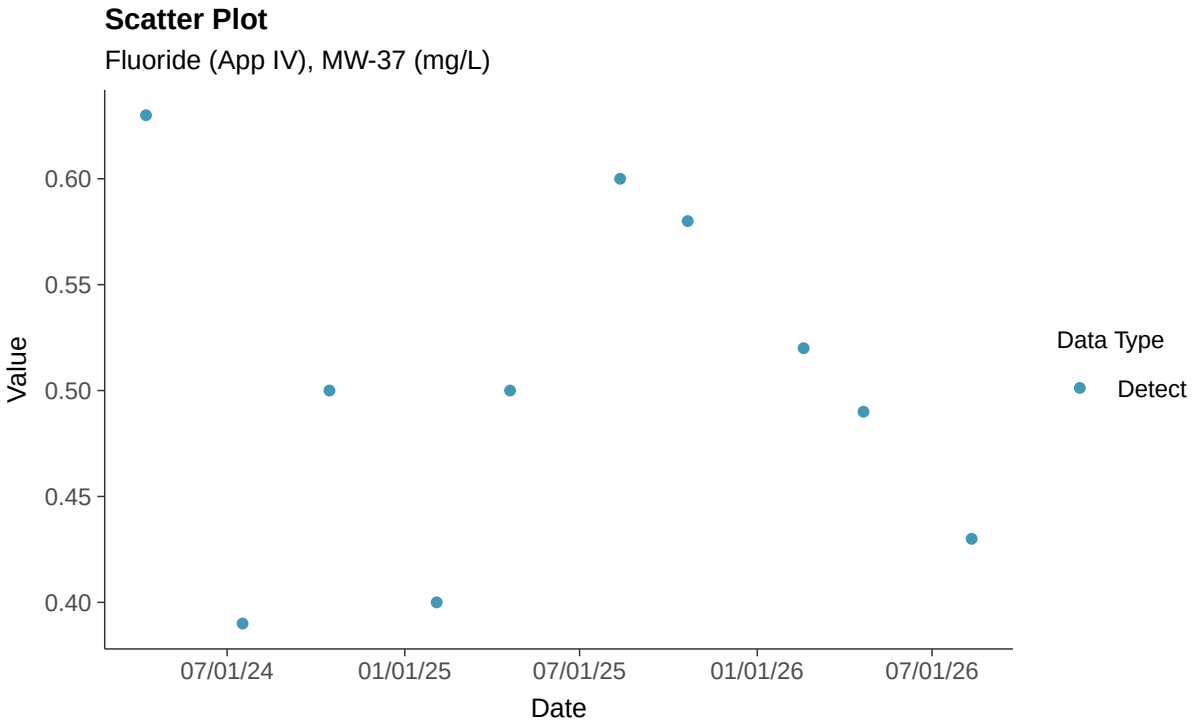
Trend Regression: Lognormal MLE

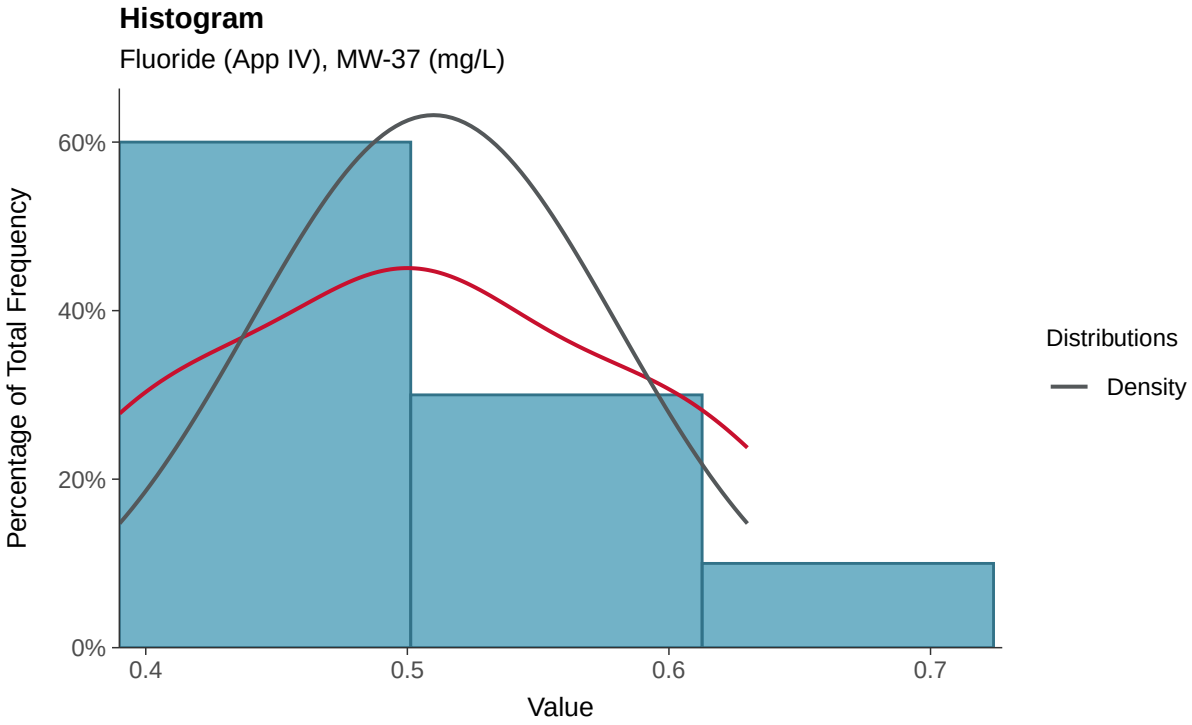
Cobalt, MW-37 (mg/L)



Appendix IV: Fluoride (App IV), MW-37

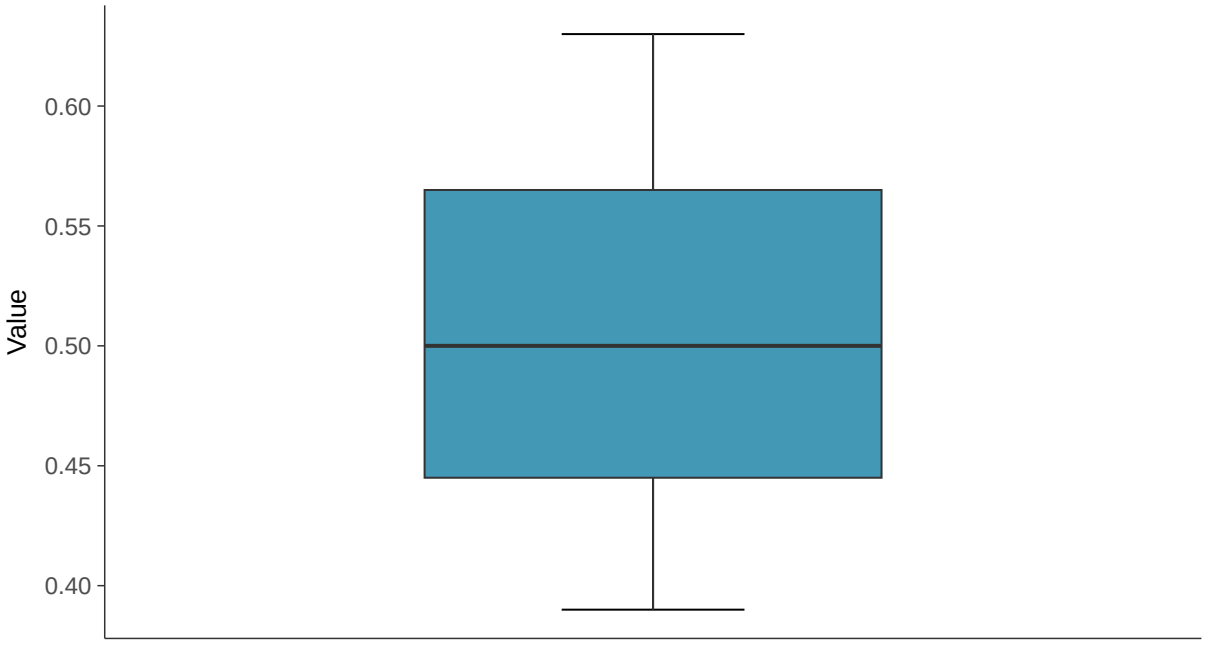
ID: 47_1_4_113





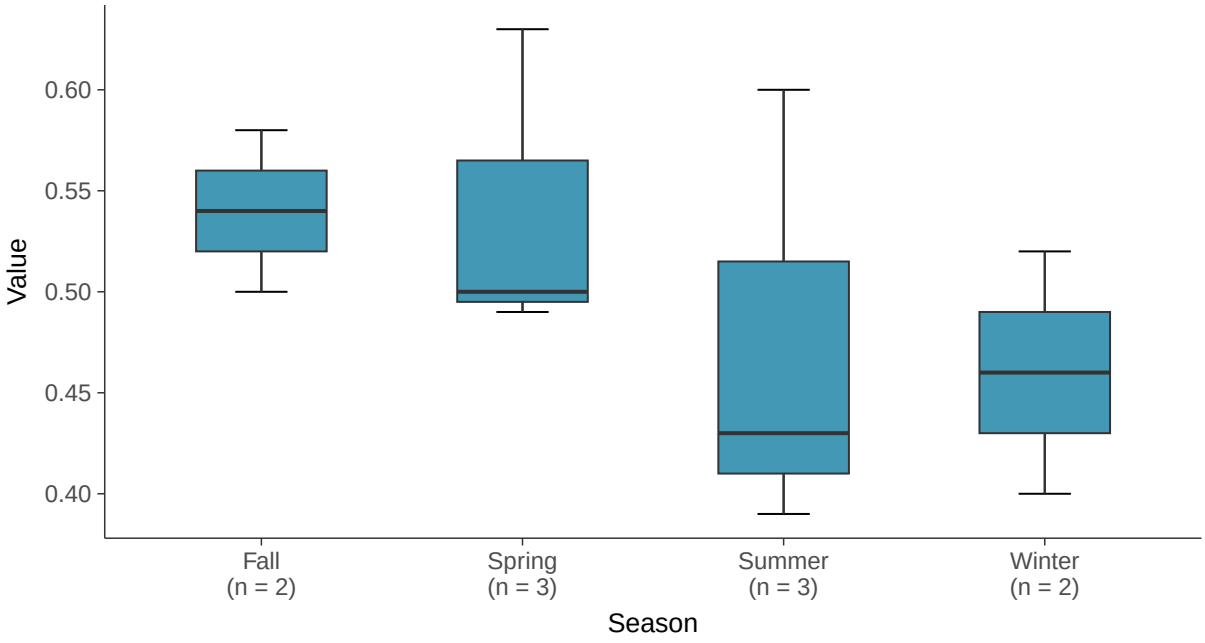
Boxplot

Fluoride (App IV), MW-37 (mg/L)



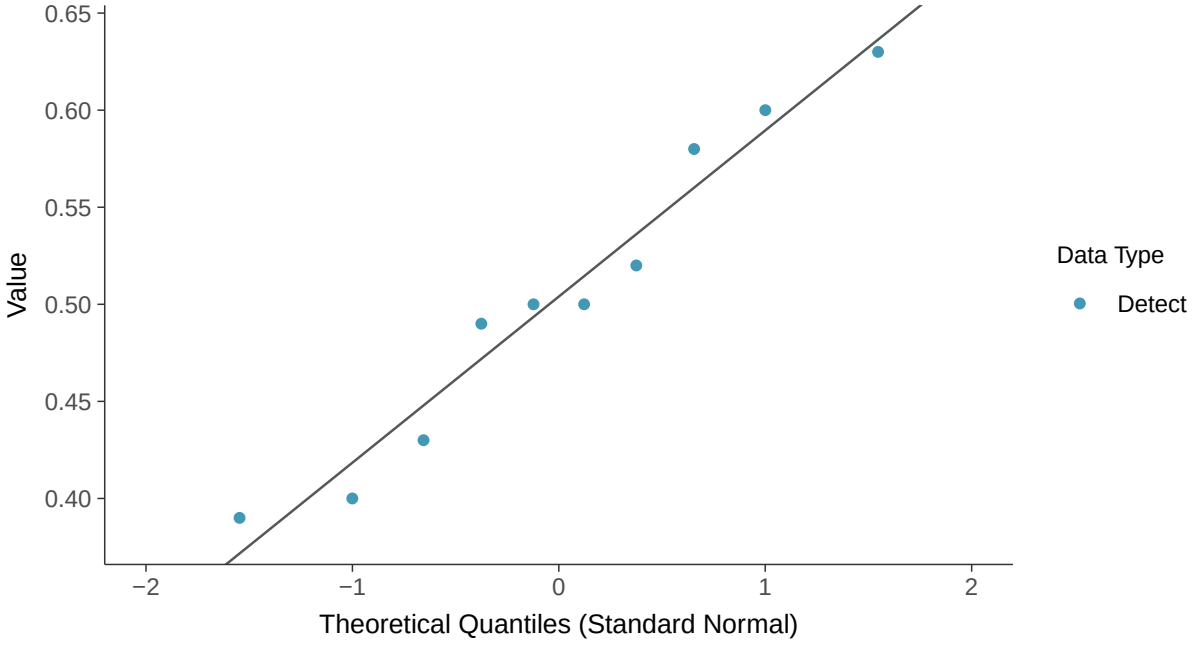
Boxplot by Season

Fluoride (App IV), MW-37 (mg/L)



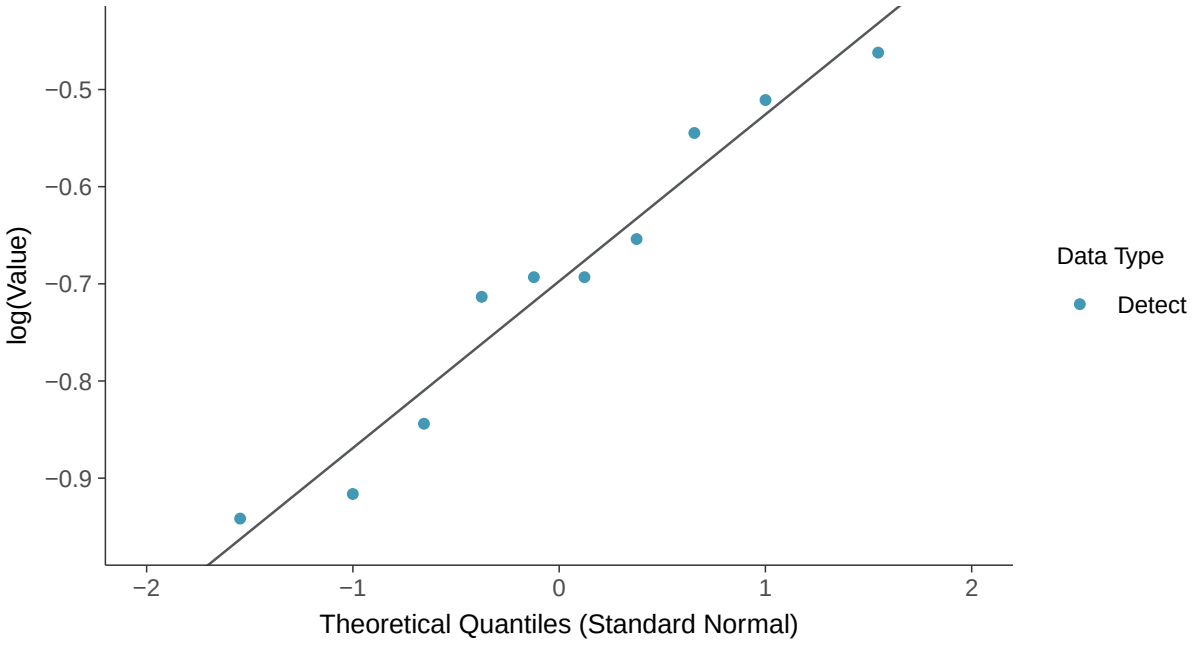
Normal Q-Q plot

Fluoride (App IV), MW-37 (mg/L)



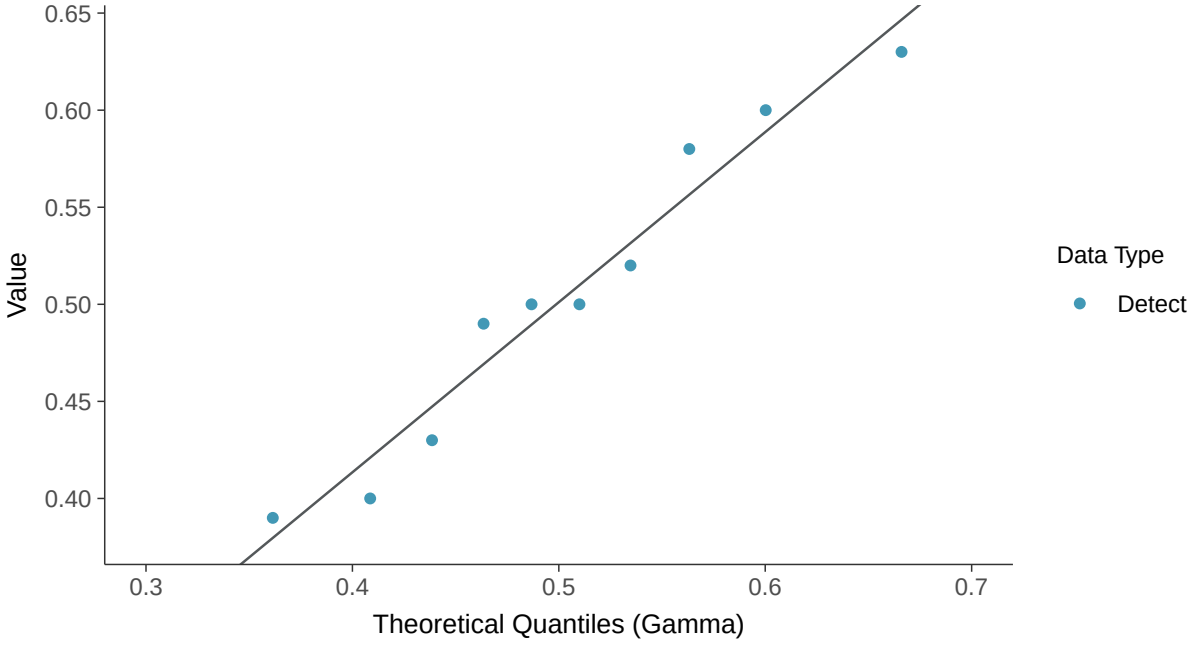
Lognormal Q-Q plot

Fluoride (App IV), MW-37 (mg/L)



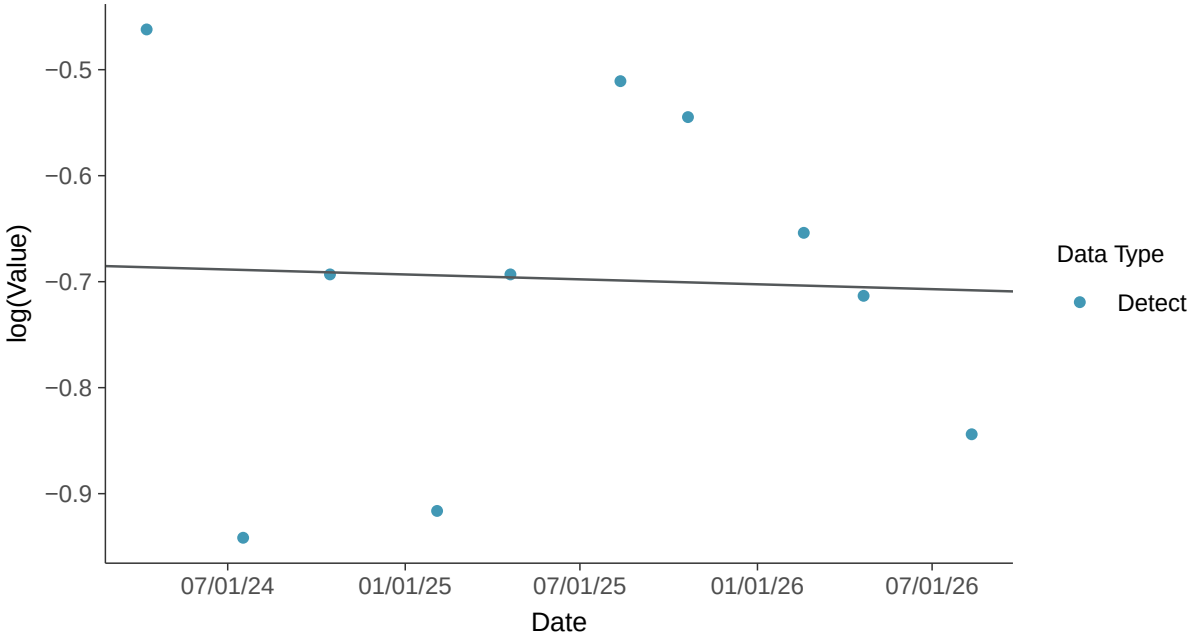
Gamma Q-Q plot

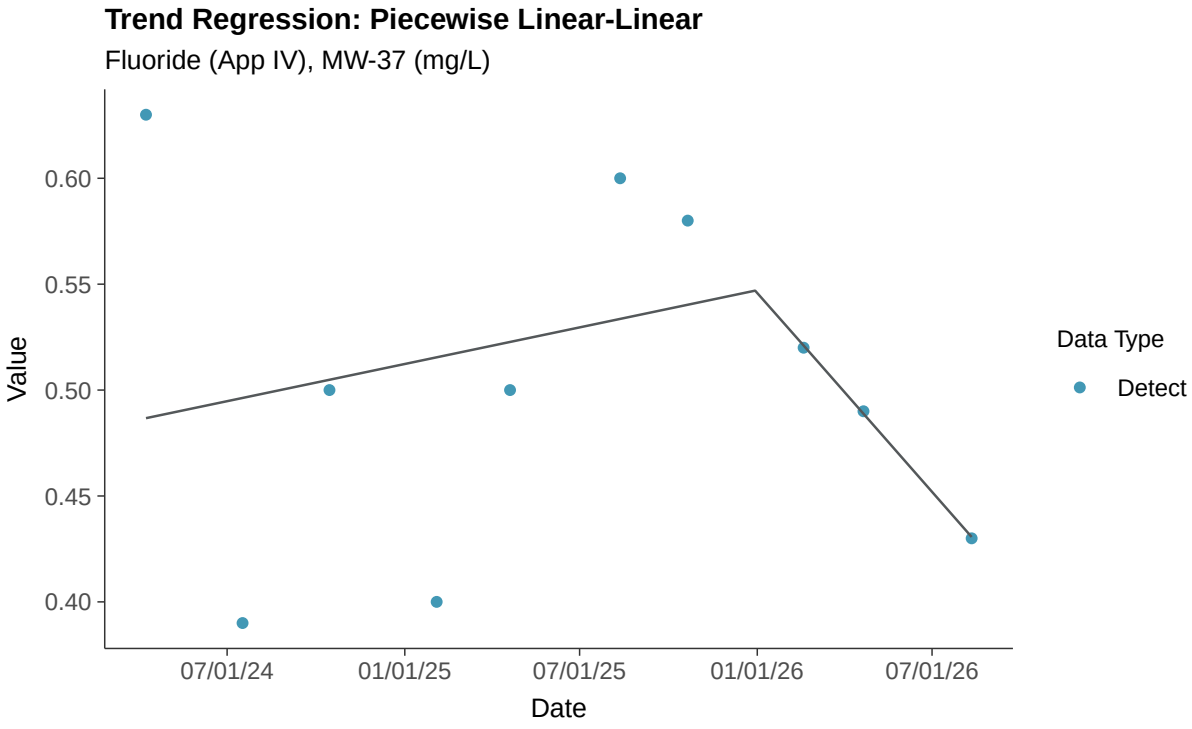
Fluoride (App IV), MW-37 (mg/L)



Trend Regression: Lognormal MLE

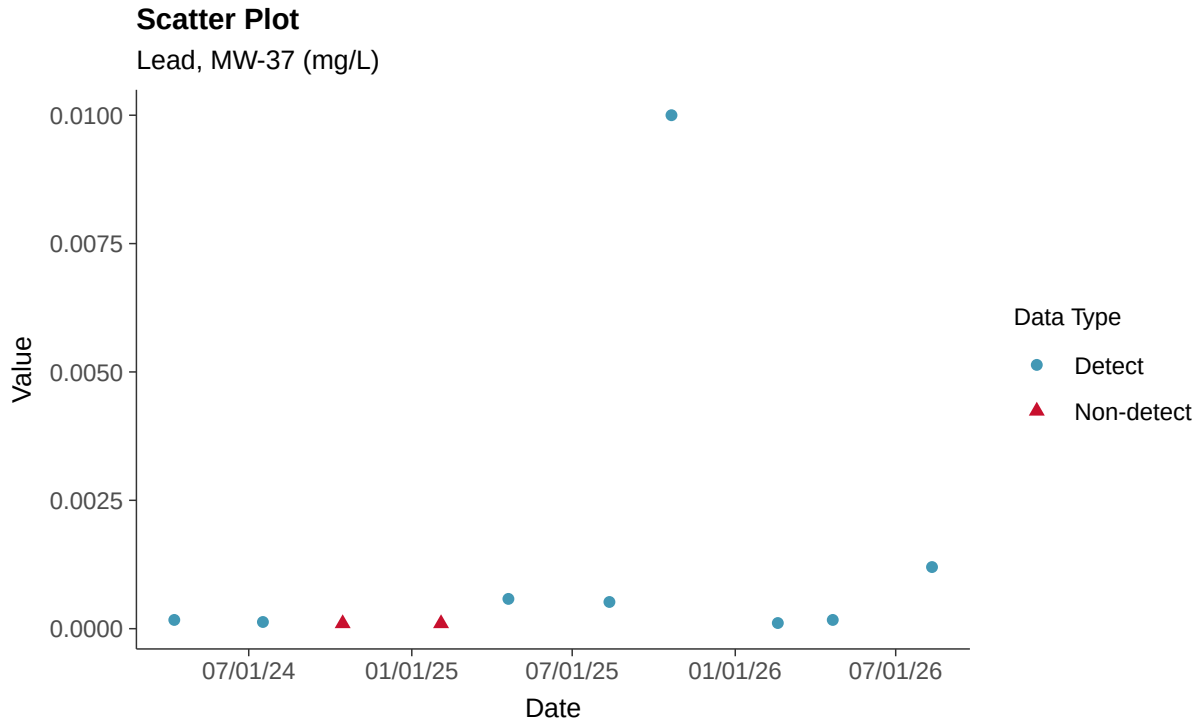
Fluoride (App IV), MW-37 (mg/L)

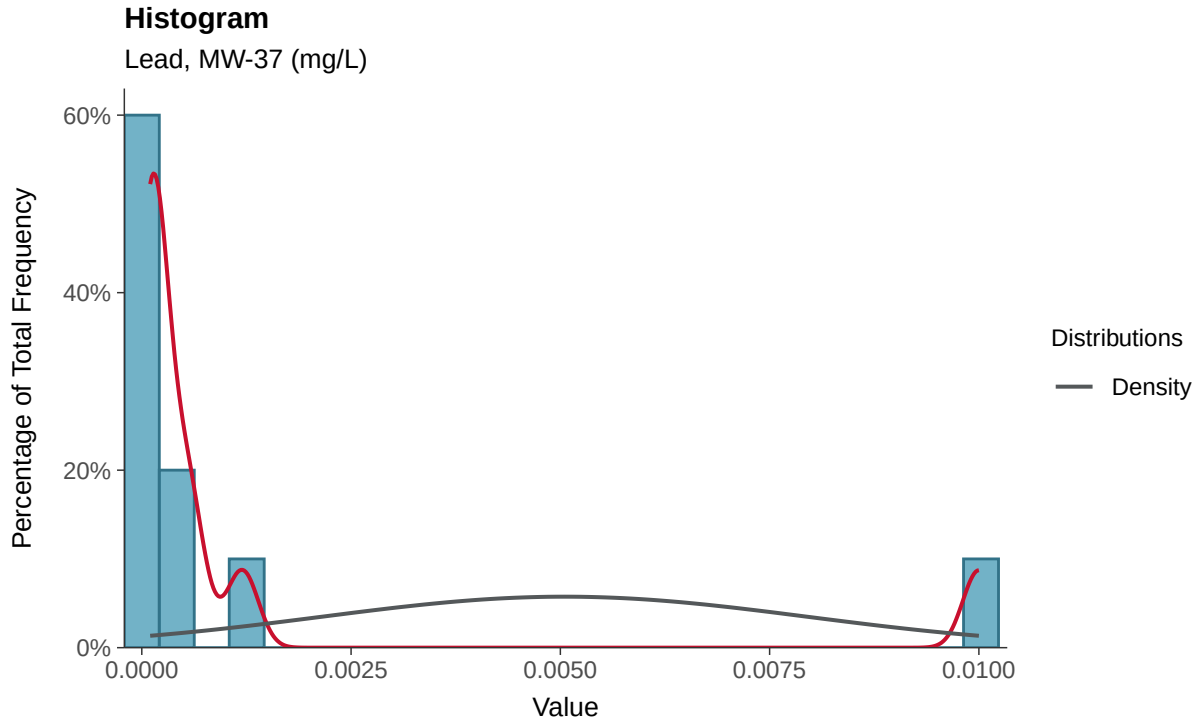



Trend Regression: Piecewise Linear-Linear
Fluoride (App IV), MW-37 (mg/L)
Value
0.60
0.55
0.50
0.45
0.40
07/01/24
01/01/25
07/01/25
01/01/26
07/01/26
Date
Data Type
Detect

Appendix IV: Lead, MW-37

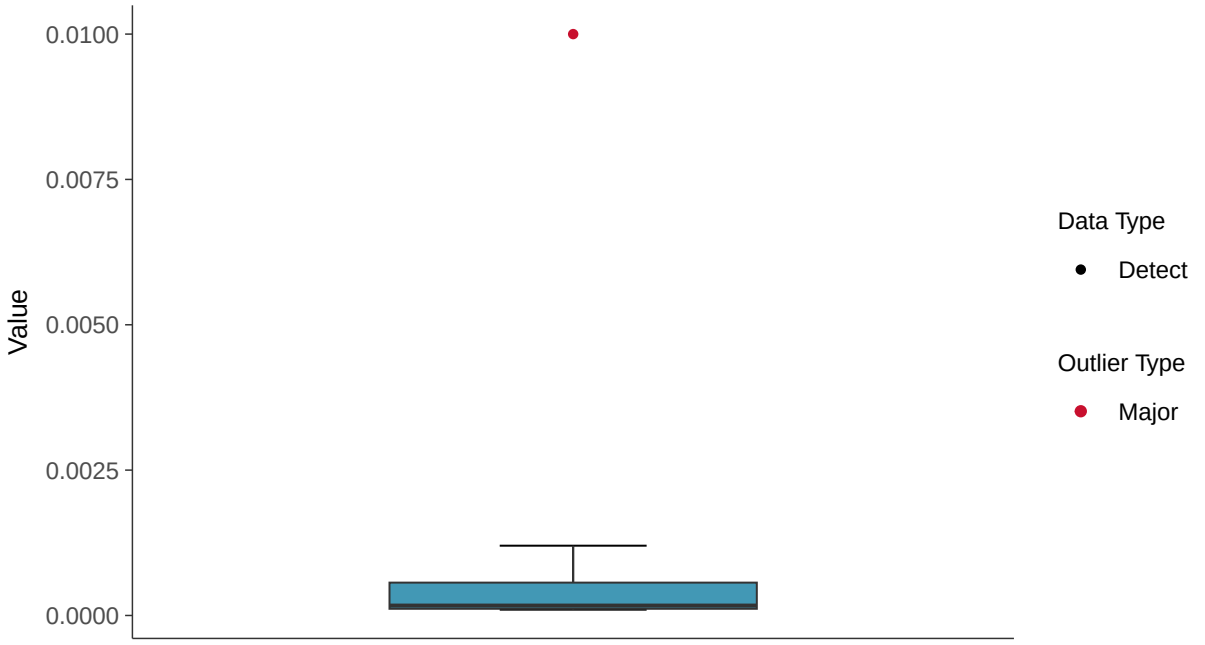
ID: 47_1_4_115





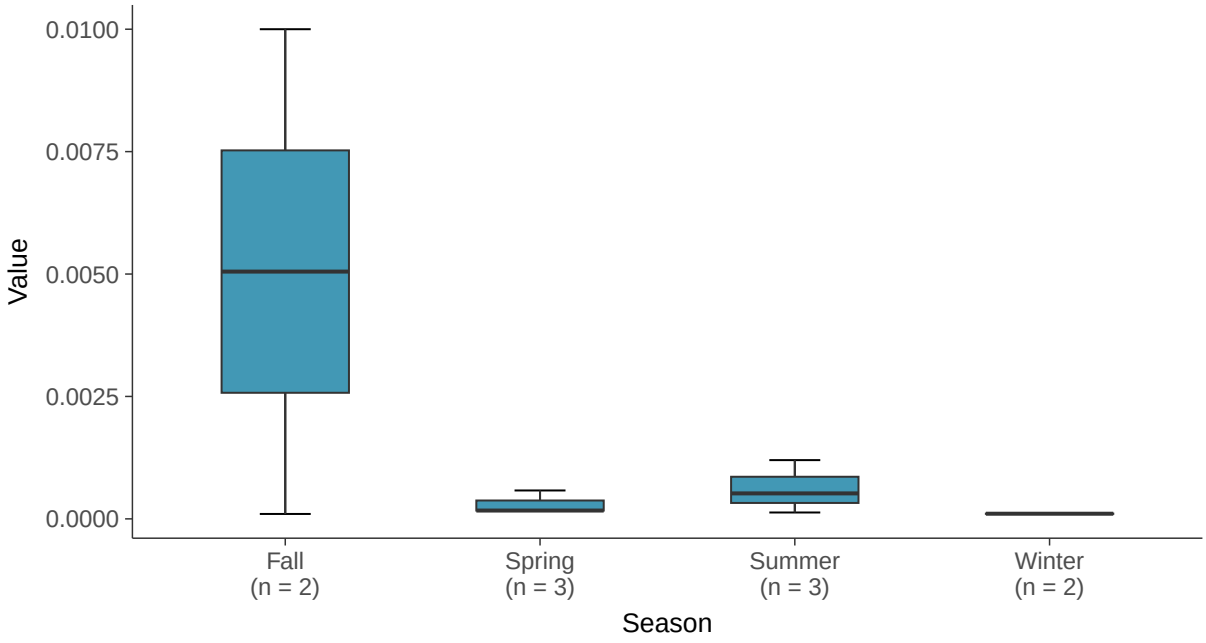
Boxplot

Lead, MW-37 (mg/L)



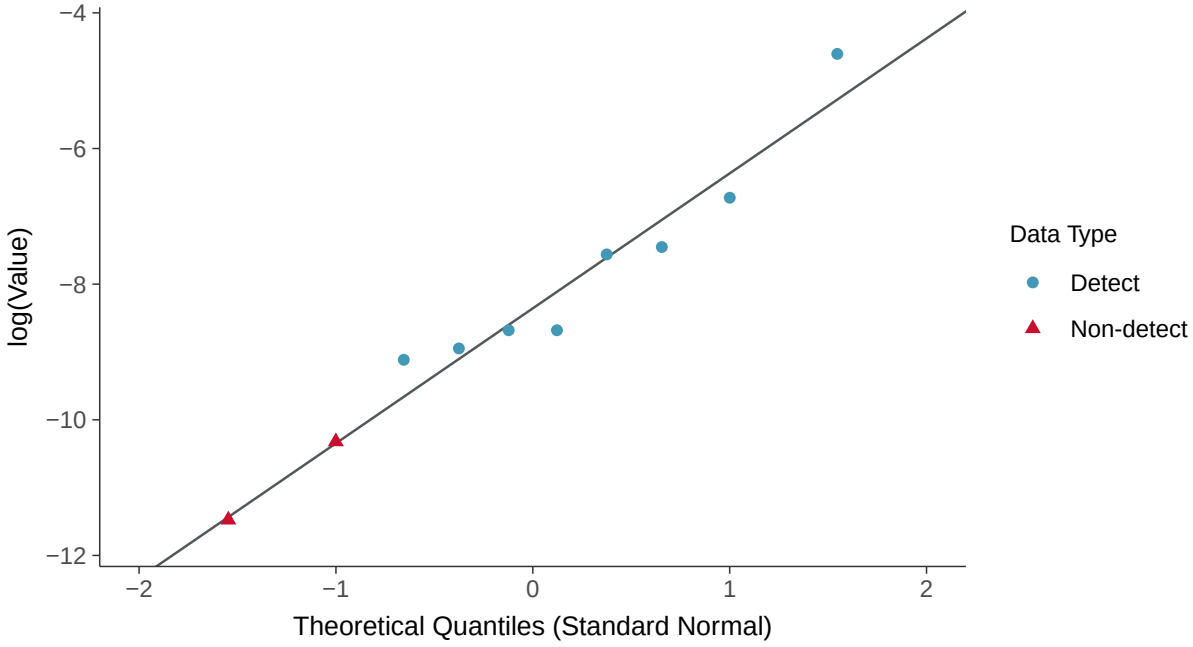
Boxplot by Season

Lead, MW-37 (mg/L)



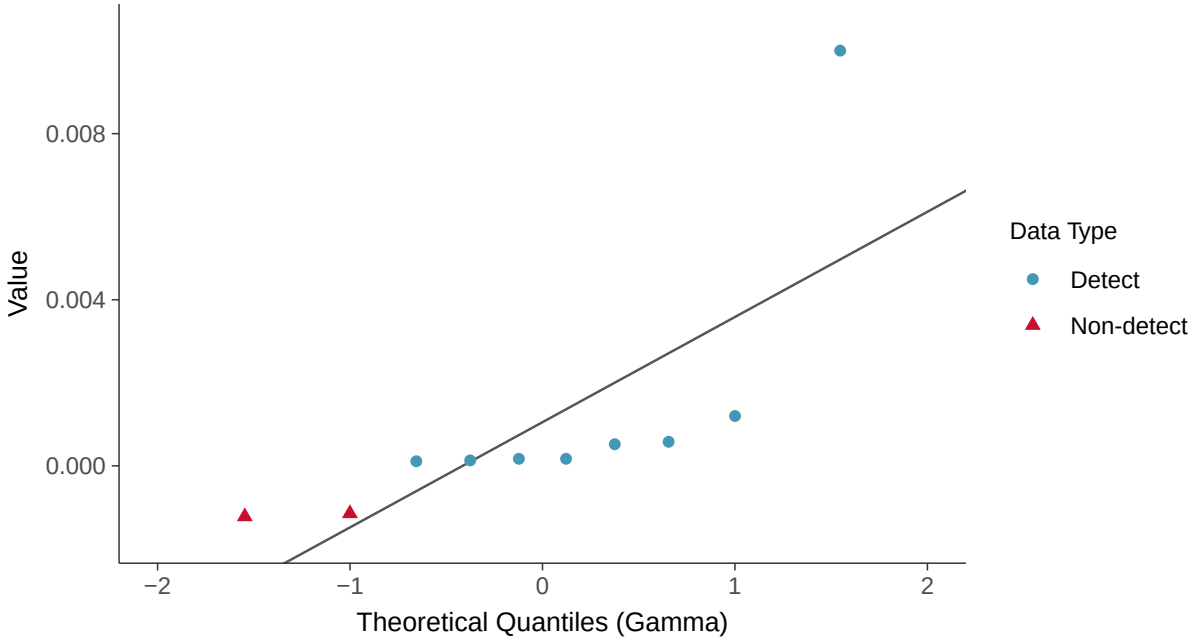
Lognormal Q-Q plot using ROS Imputed Estimates

Lead, MW-37 (mg/L)



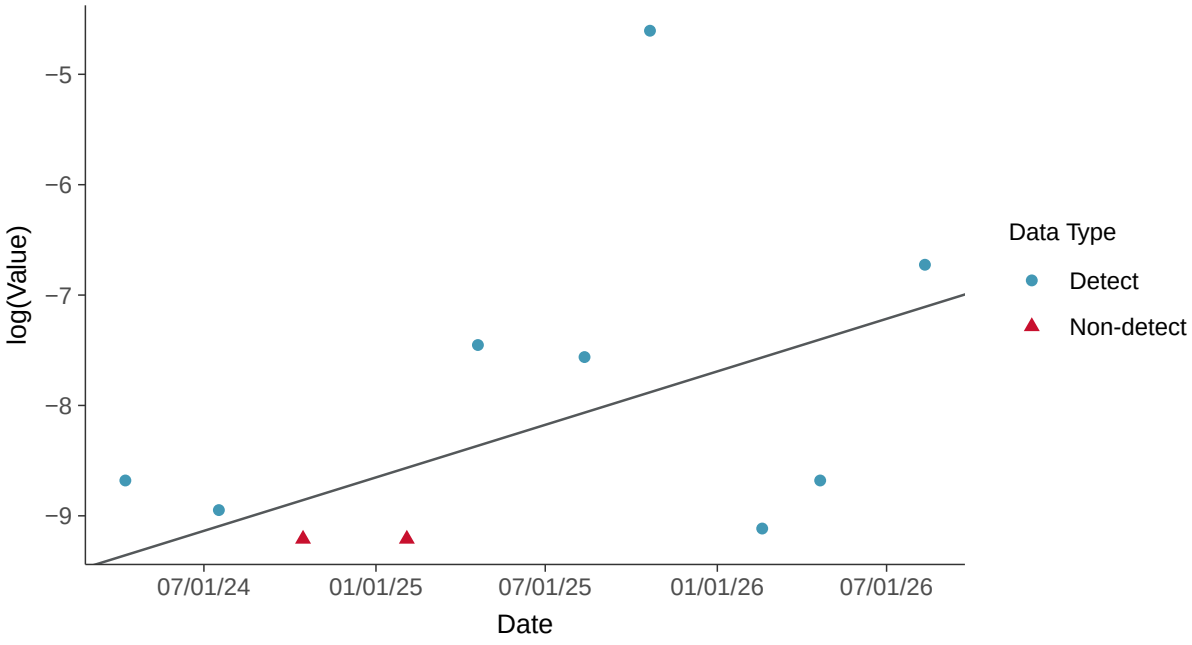
Gamma Q-Q plot using ROS Imputed Estimates

Lead, MW-37 (mg/L)



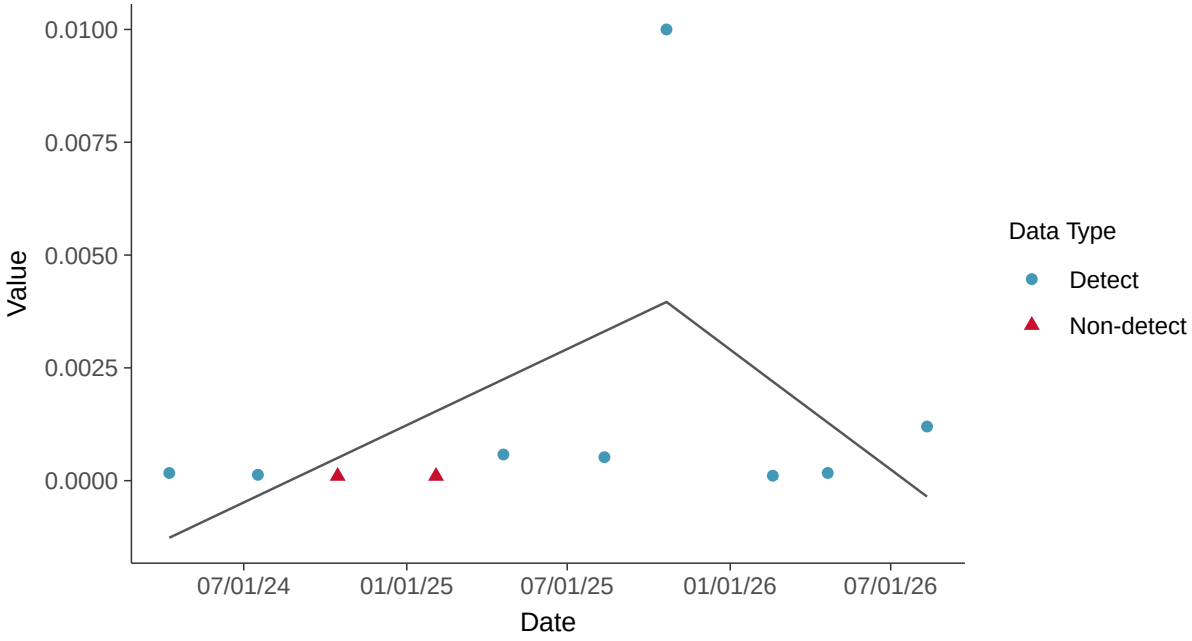
Trend Regression: Lognormal MLE

Lead, MW-37 (mg/L)



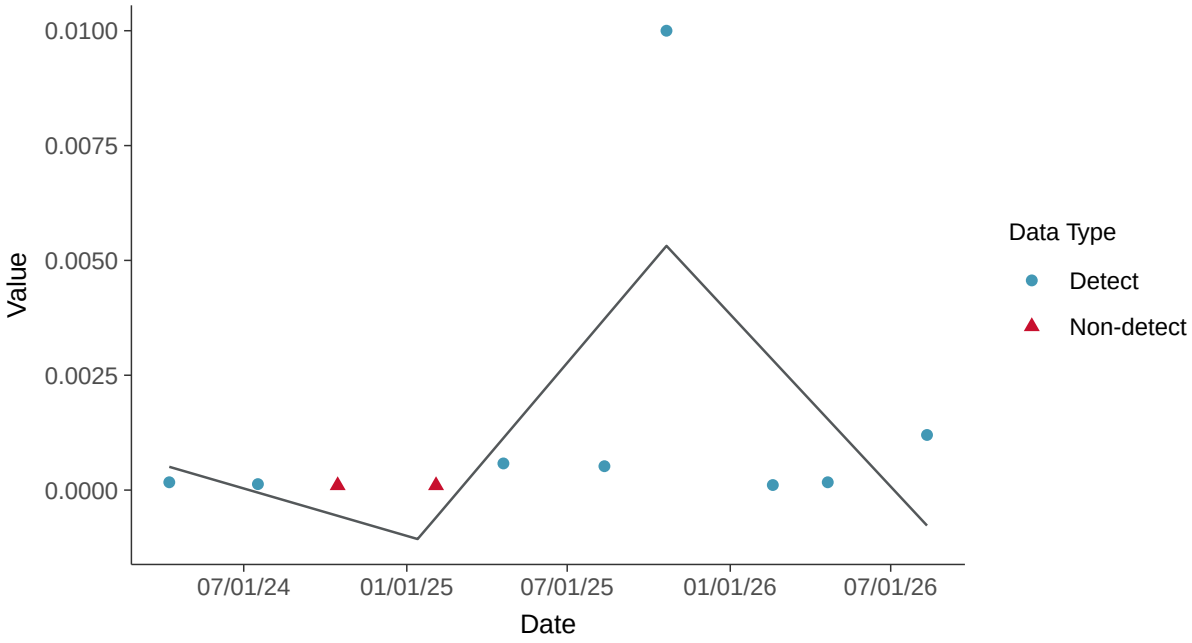
Trend Regression: Piecewise Linear-Linear

Lead, MW-37 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Lead, MW-37 (mg/L)

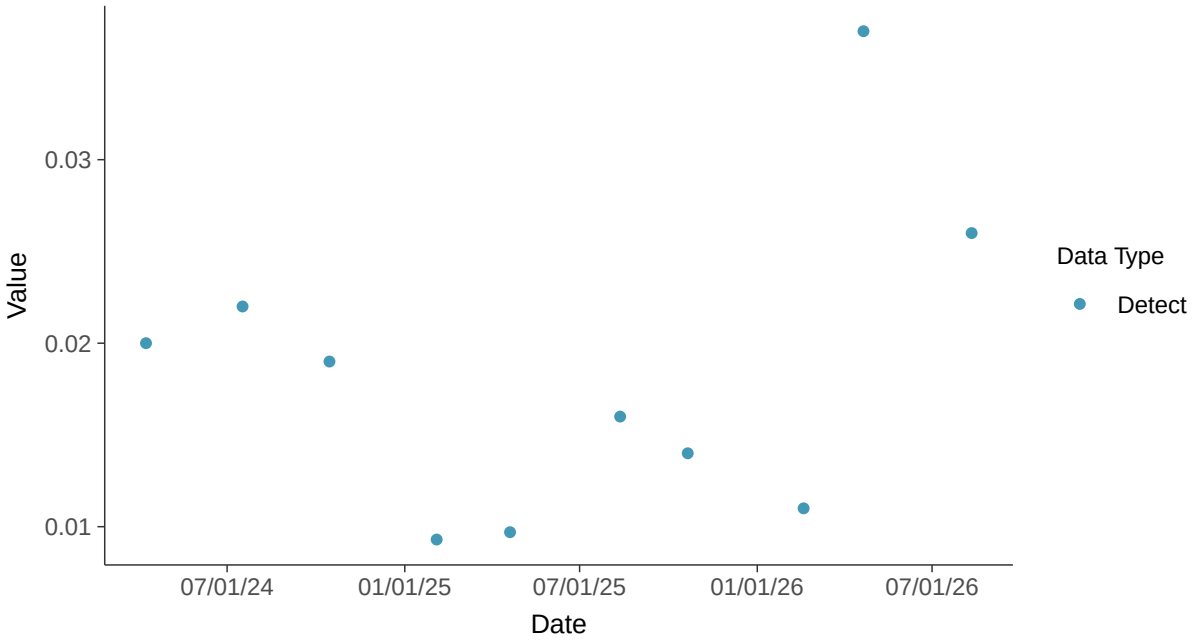


Appendix IV: Lithium, MW-37

ID: 47_1_4_116

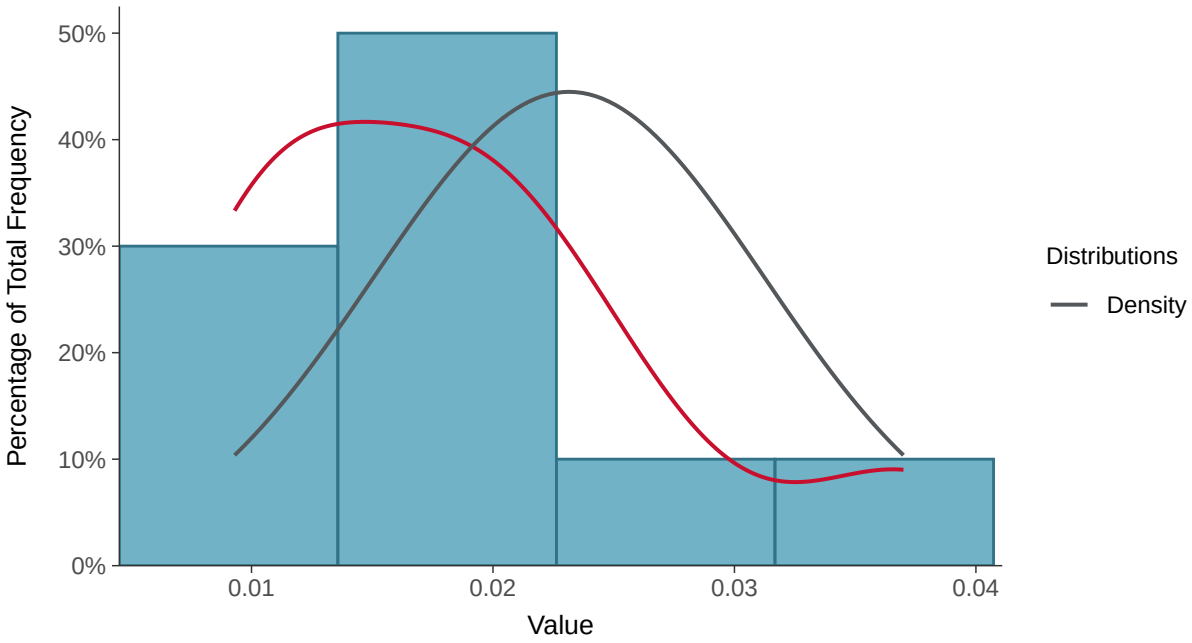
Scatter Plot

Lithium, MW-37 (mg/L)



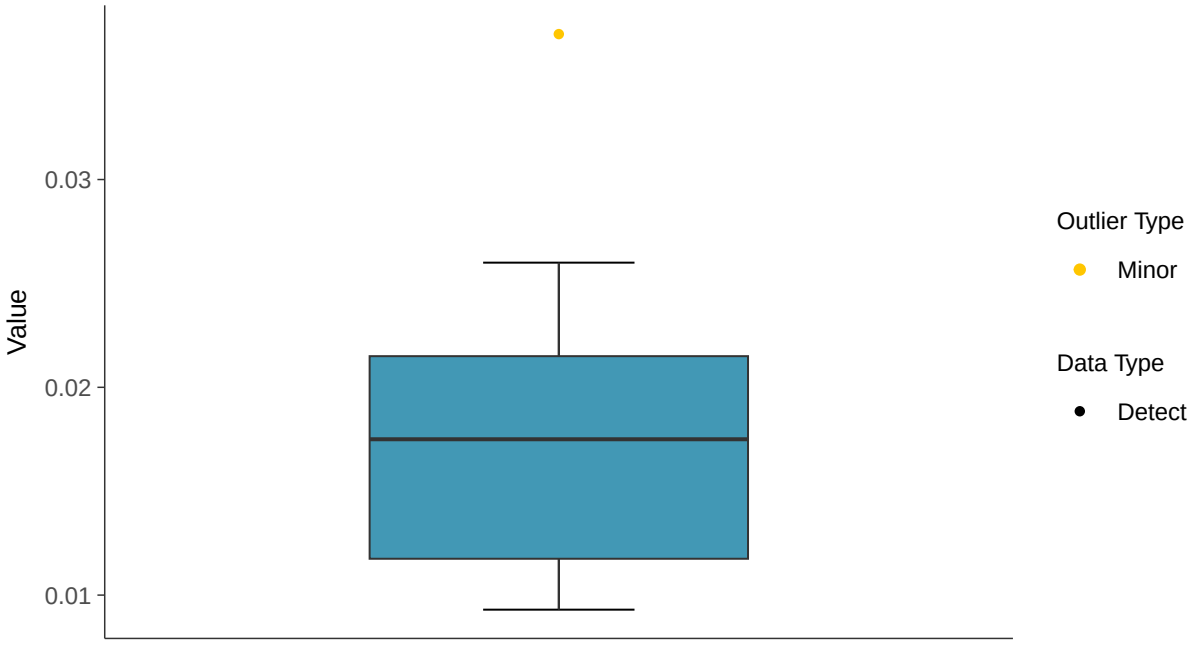
Histogram

Lithium, MW-37 (mg/L)



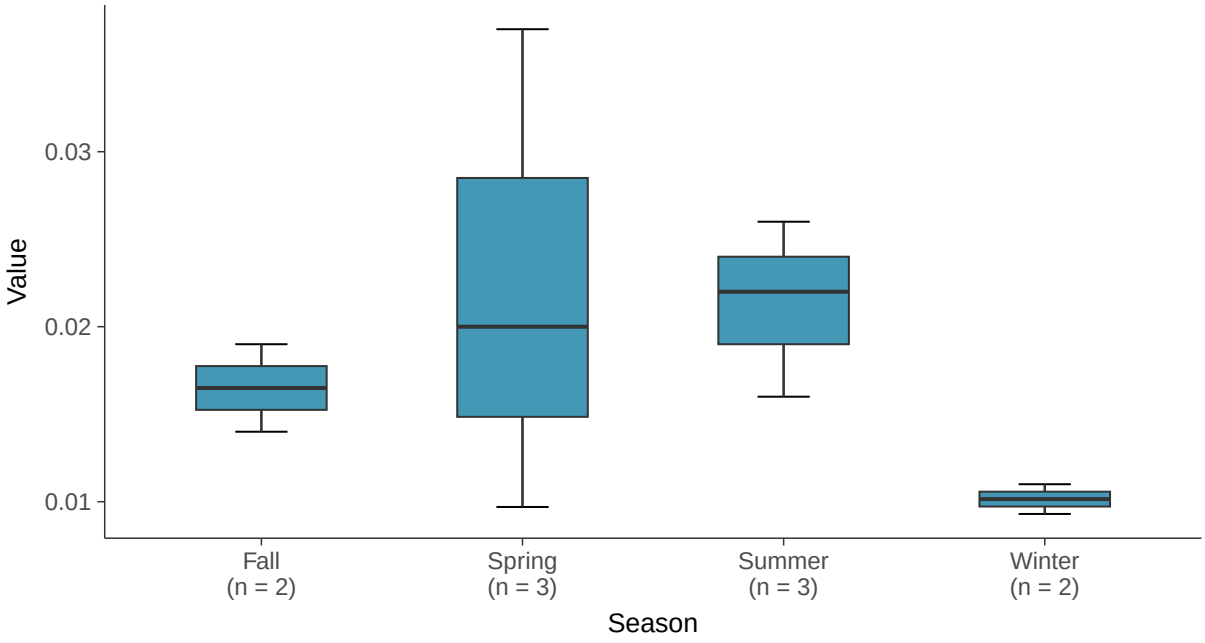
Boxplot

Lithium, MW-37 (mg/L)



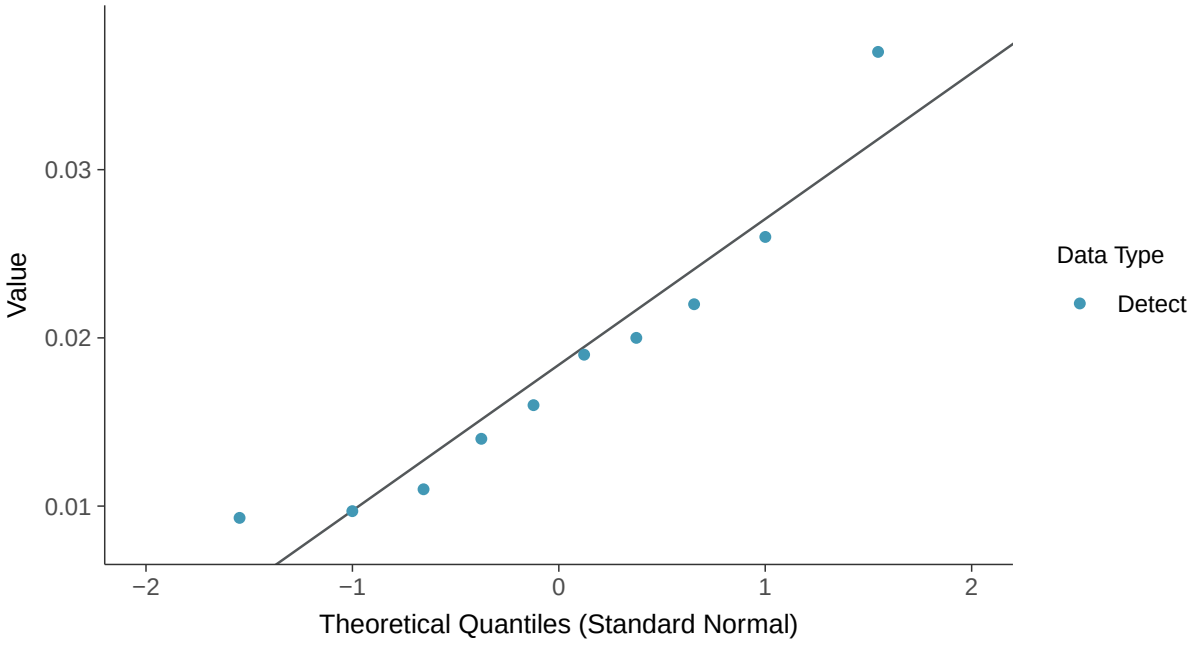
Boxplot by Season

Lithium, MW-37 (mg/L)



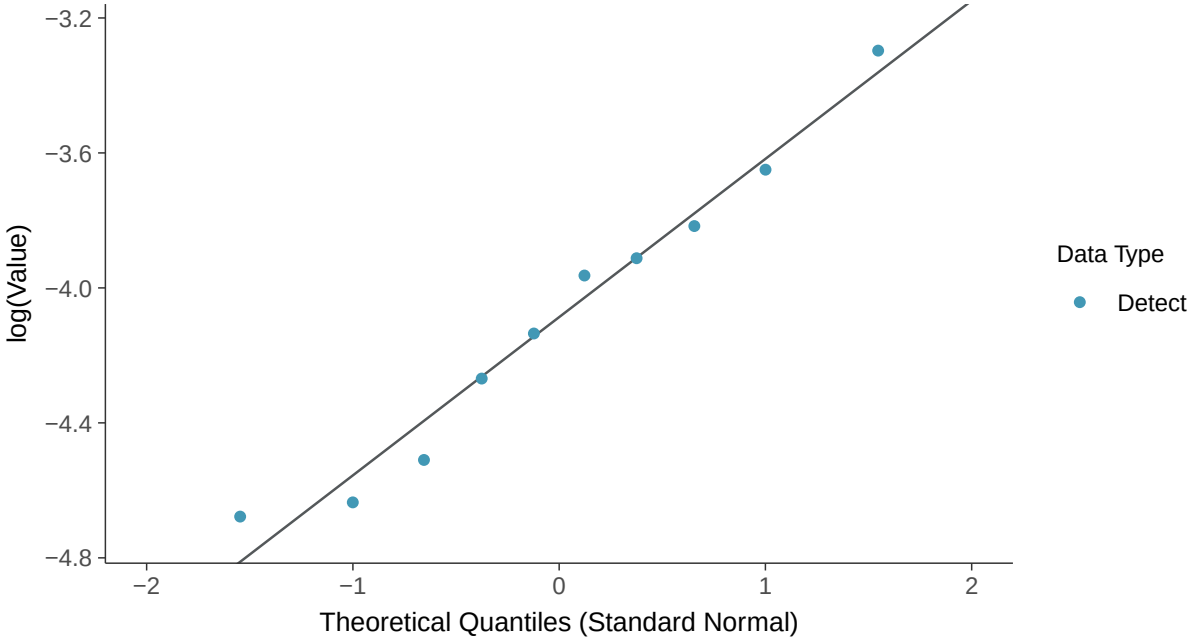
Normal Q-Q plot

Lithium, MW-37 (mg/L)



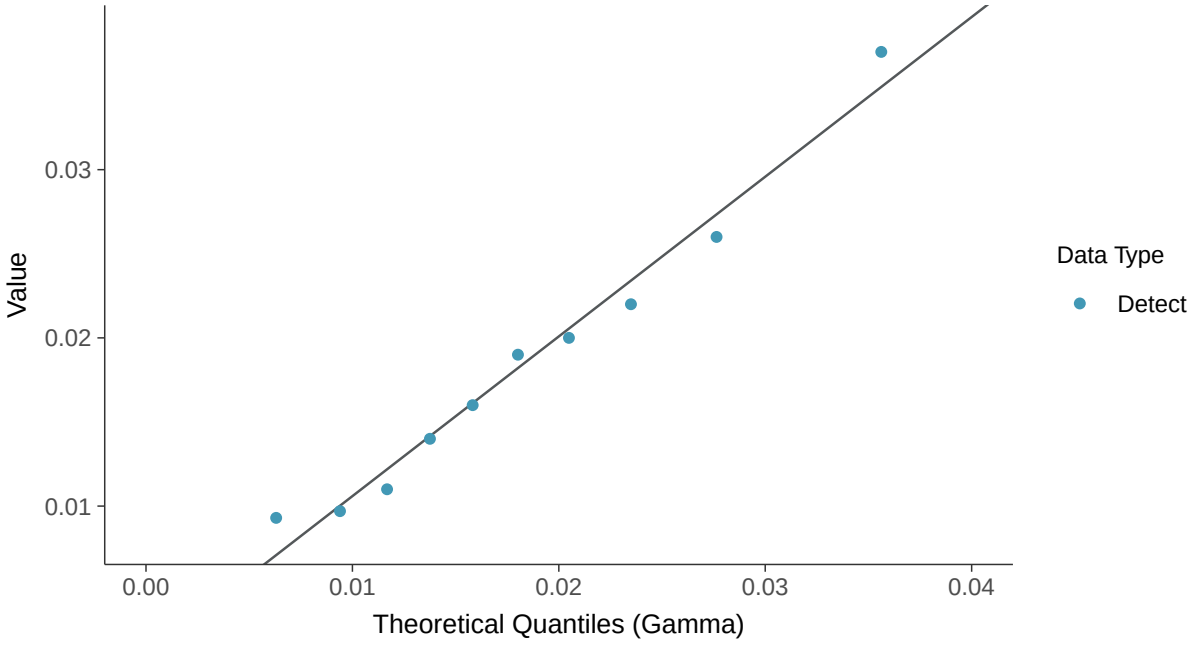
Lognormal Q-Q plot

Lithium, MW-37 (mg/L)



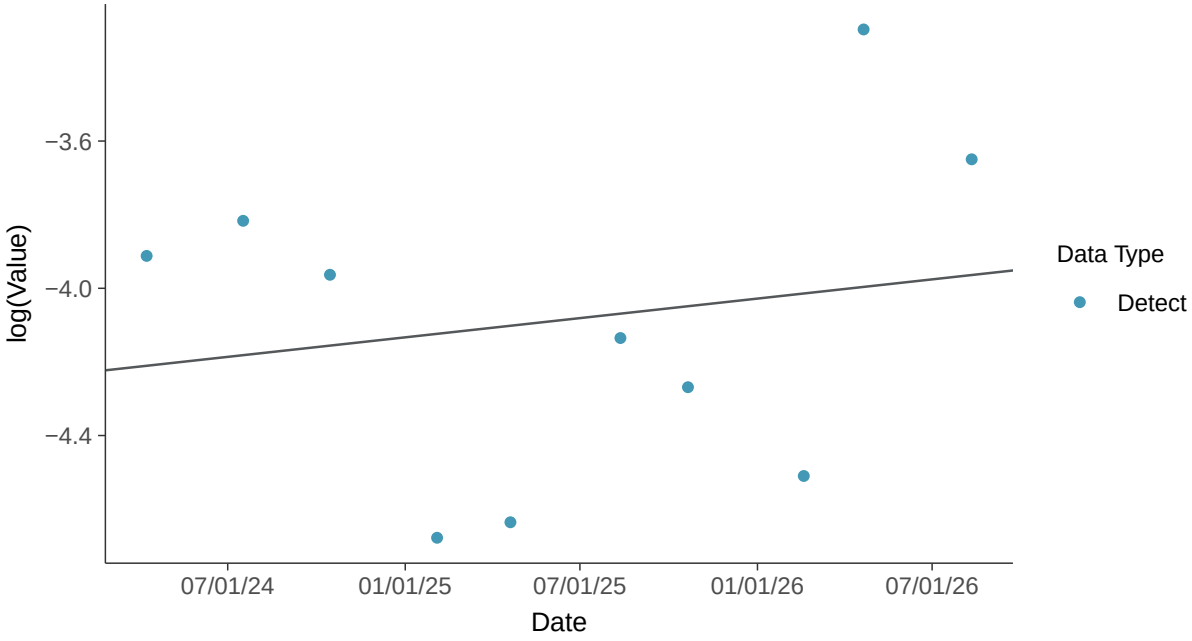
Gamma Q-Q plot

Lithium, MW-37 (mg/L)



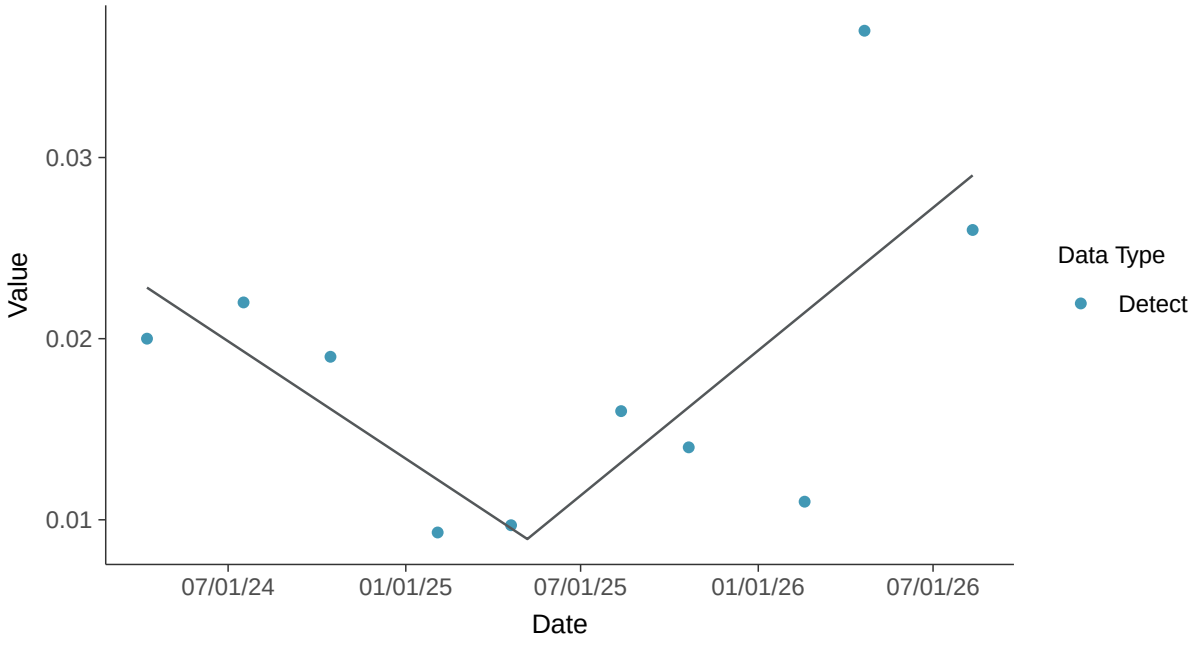
Trend Regression: Lognormal MLE

Lithium, MW-37 (mg/L)



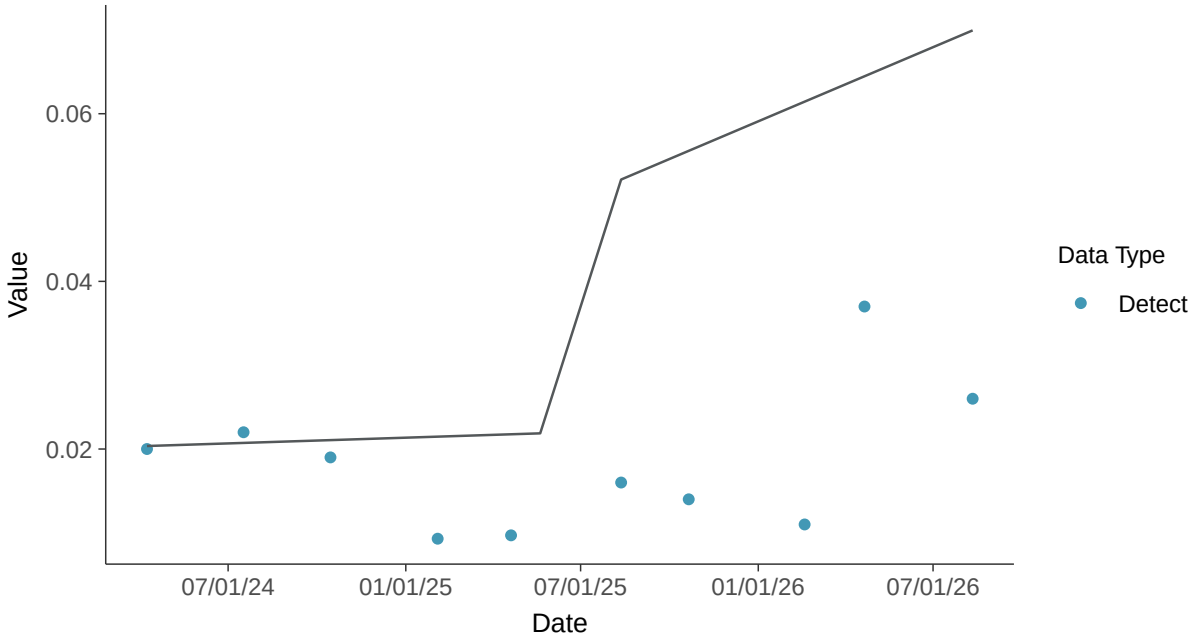
Trend Regression: Piecewise Linear-Linear

Lithium, MW-37 (mg/L)



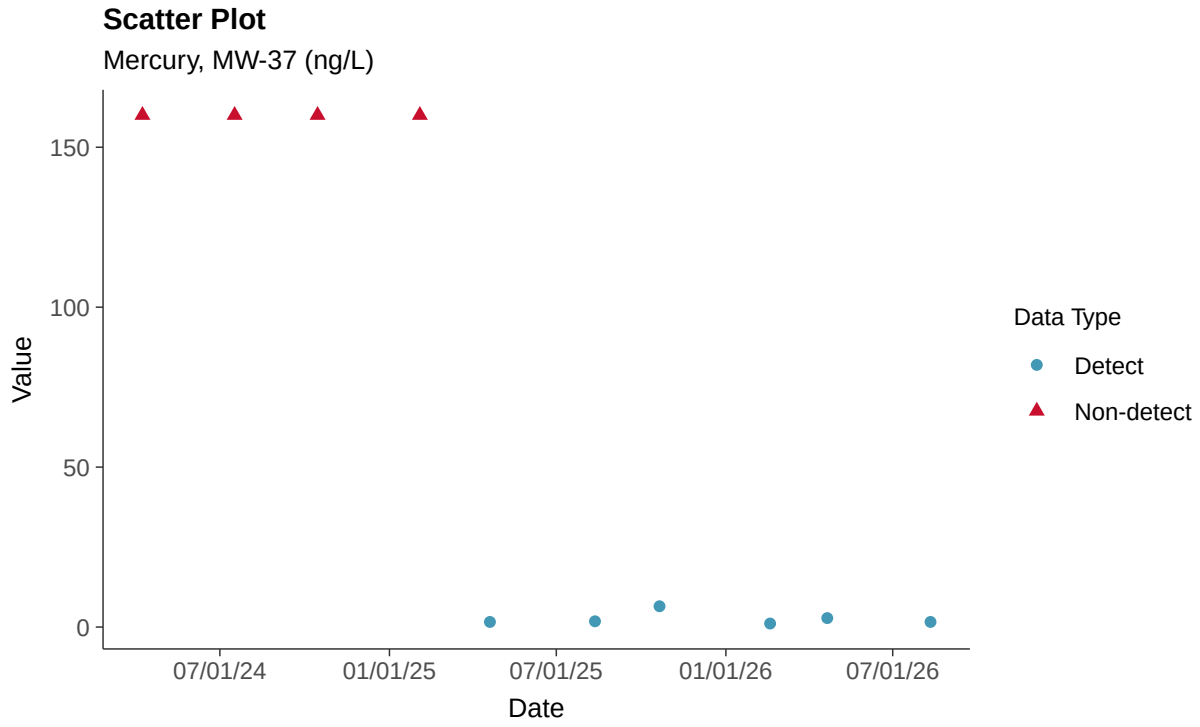
Trend Regression: Piecewise Linear-Linear-Linear

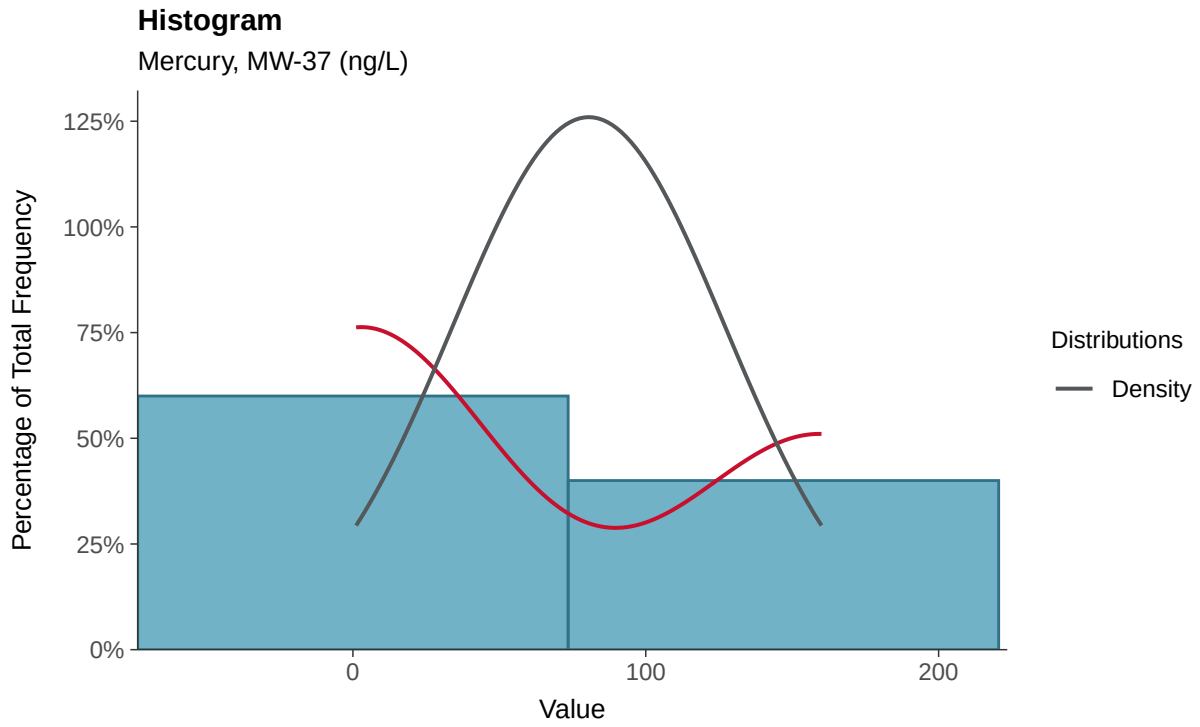
Lithium, MW-37 (mg/L)



Appendix IV: Mercury, MW-37

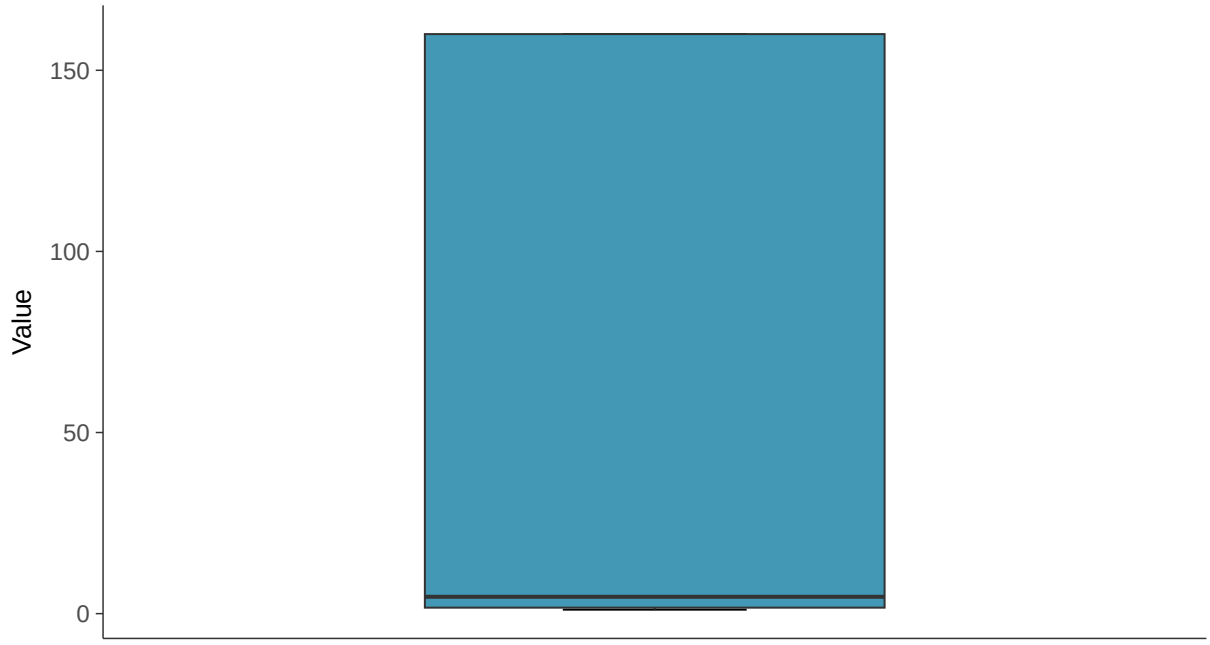
ID: 47_1_4_117





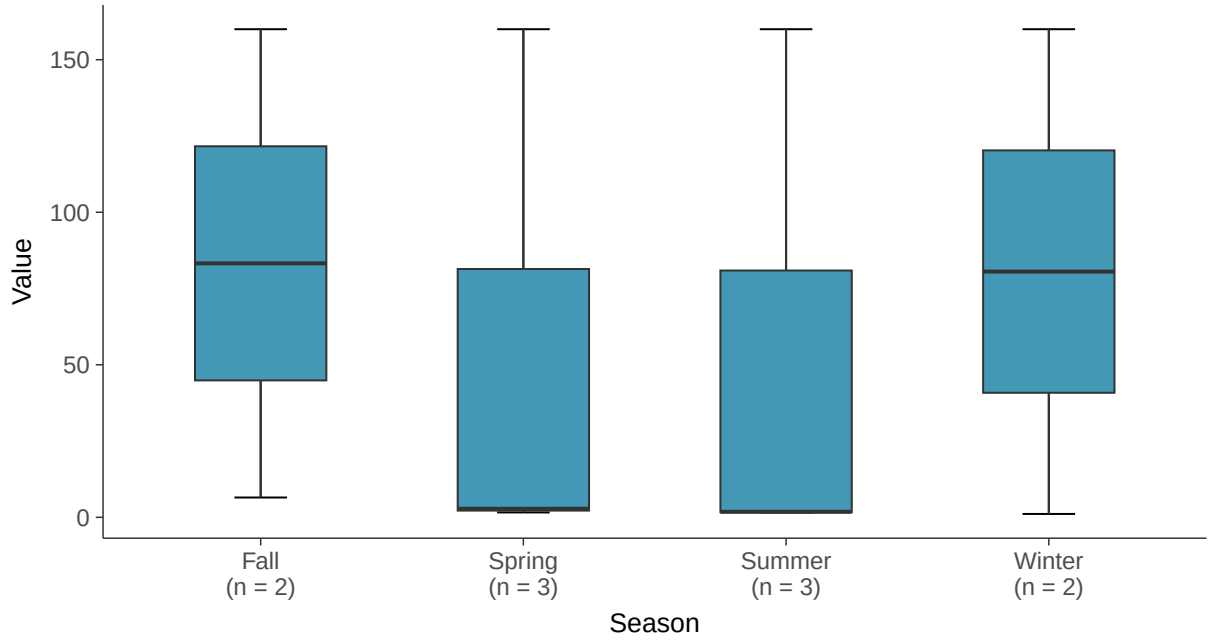
Boxplot

Mercury, MW-37 (ng/L)



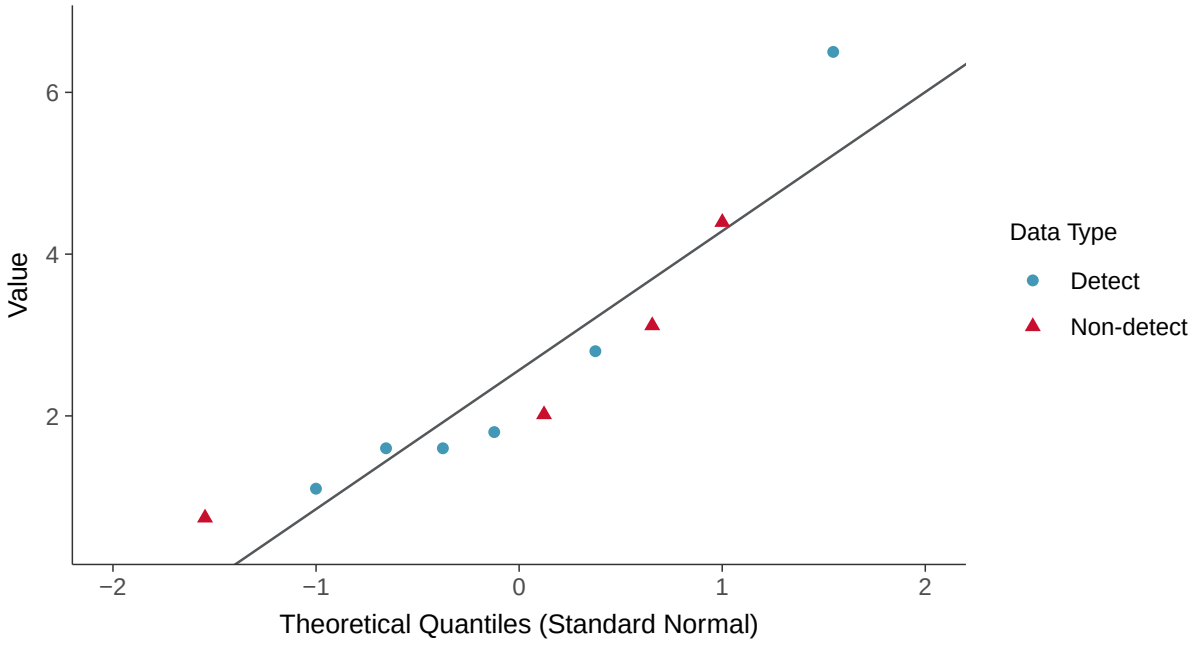
Boxplot by Season

Mercury, MW-37 (ng/L)



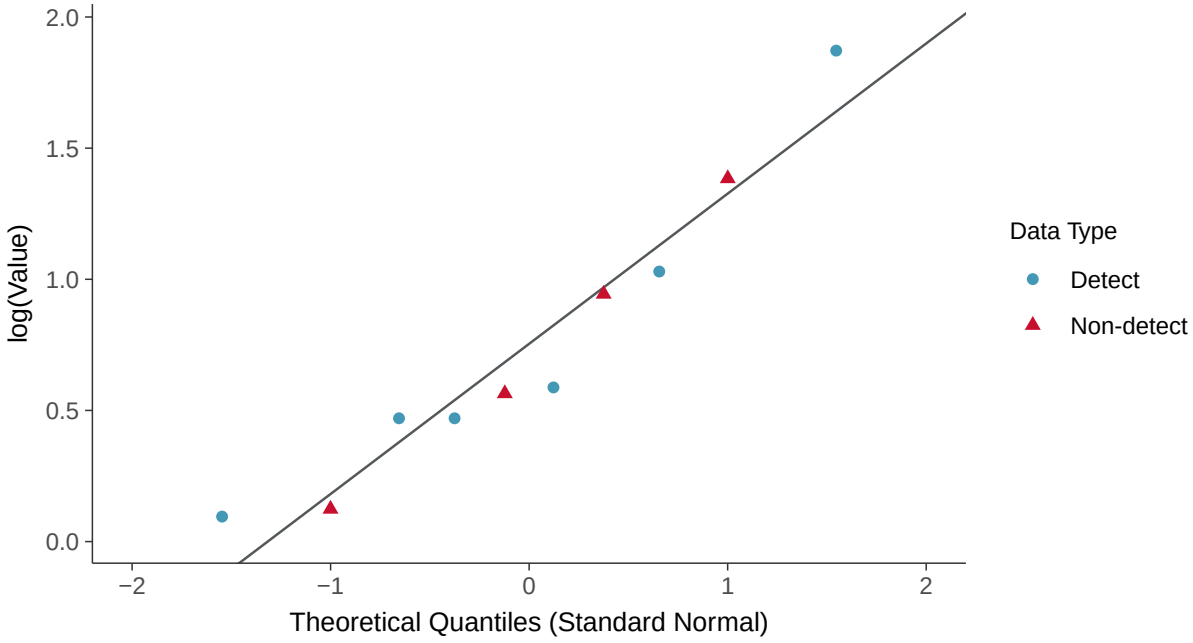
Normal Q-Q plot using ROS Imputed Estimates

Mercury, MW-37 (ng/L)



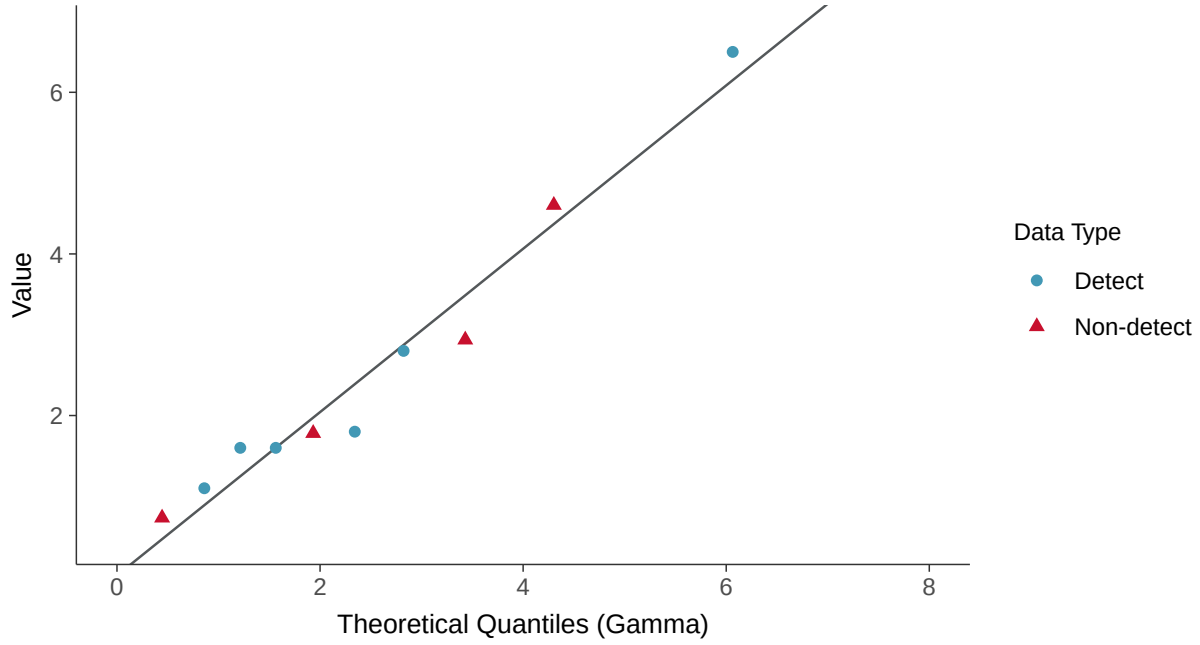
Lognormal Q-Q plot using ROS Imputed Estimates

Mercury, MW-37 (ng/L)



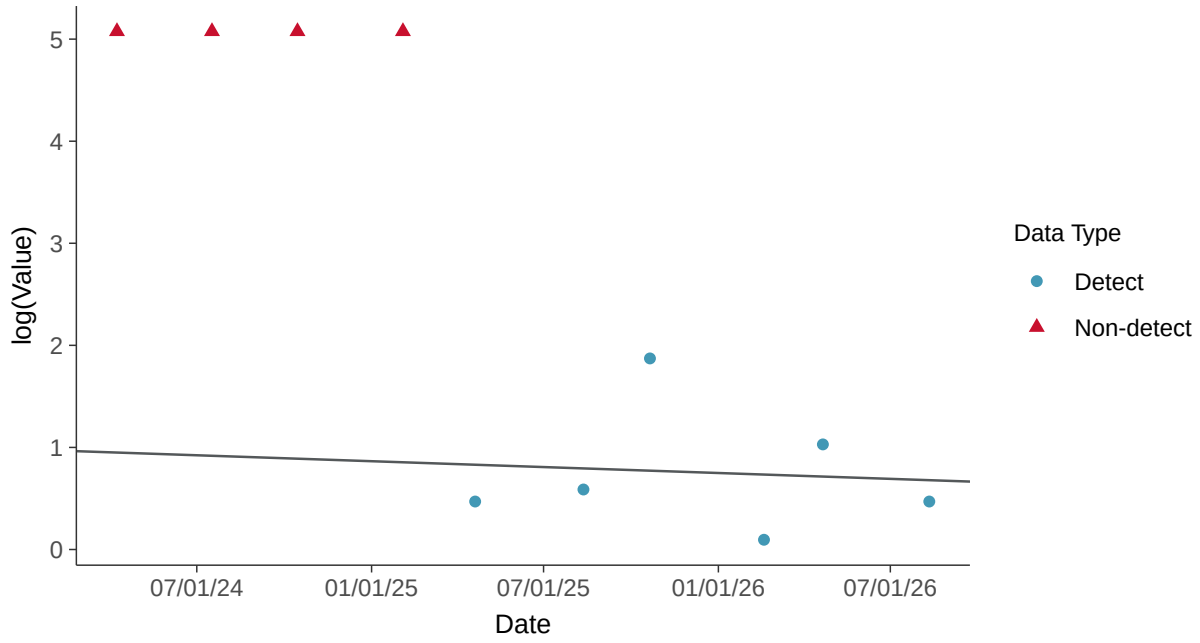
Gamma Q-Q plot using ROS Imputed Estimates

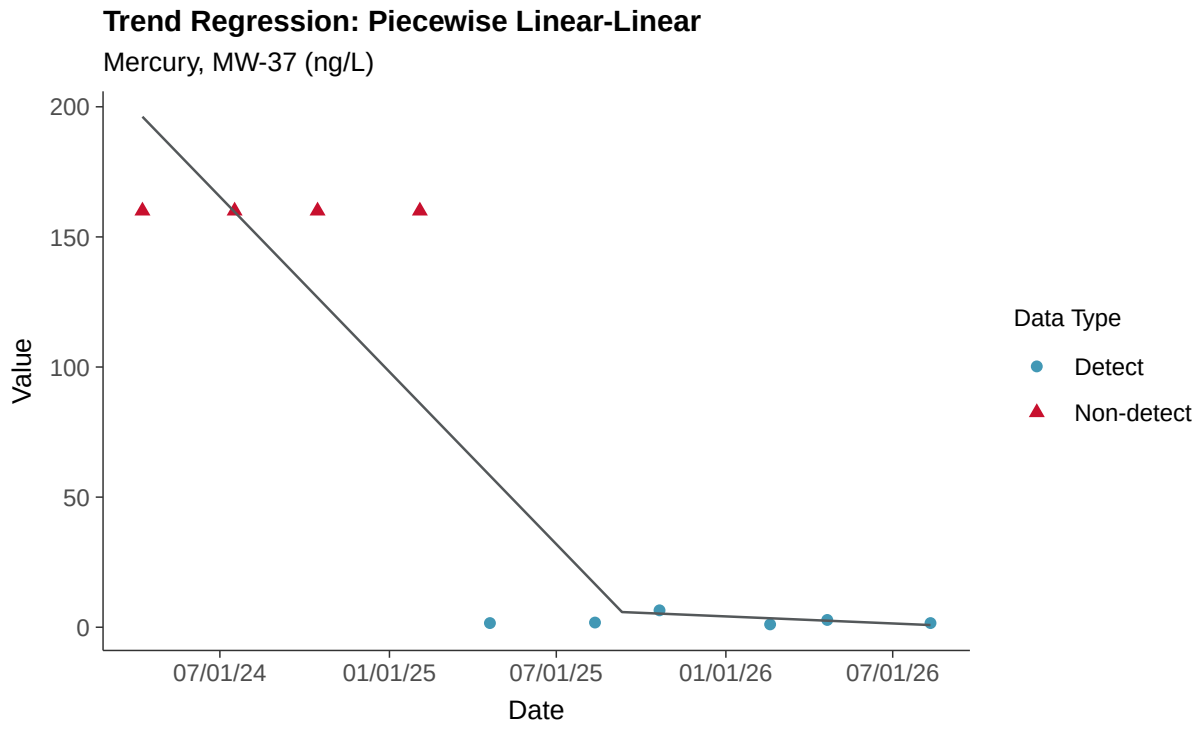
Mercury, MW-37 (ng/L)



Trend Regression: Lognormal MLE

Mercury, MW-37 (ng/L)



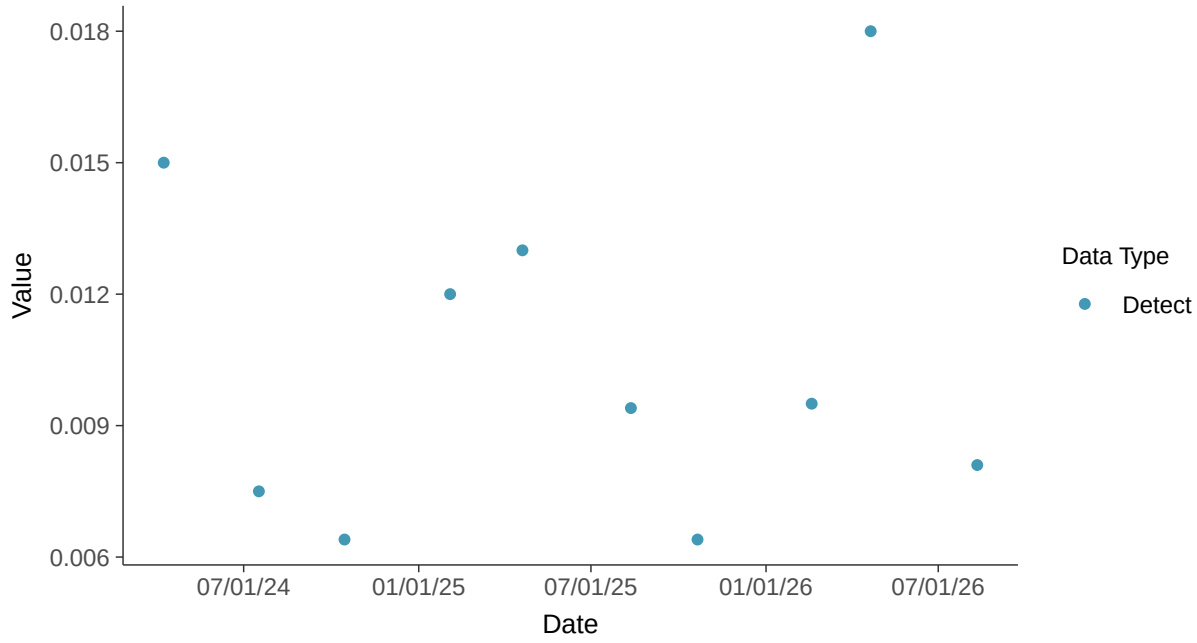

Trend Regression: Piecewise Linear-Linear
Mercury, MW-37 (ng/L)
200
150
100
50
0
Value
07/01/24
01/01/25
07/01/25
01/01/26
07/01/26
Date
Data Type
Detect
Non-detect

Appendix IV: Molybdenum, MW-37

ID: 47_1_4_118

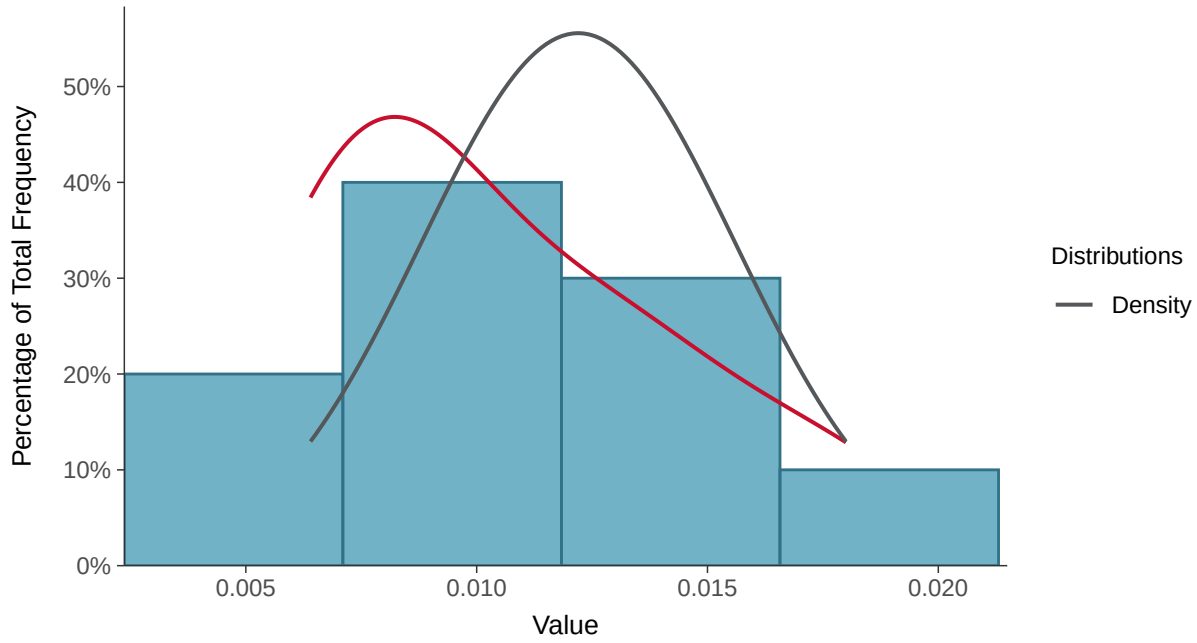
Scatter Plot

Molybdenum, MW-37 (mg/L)



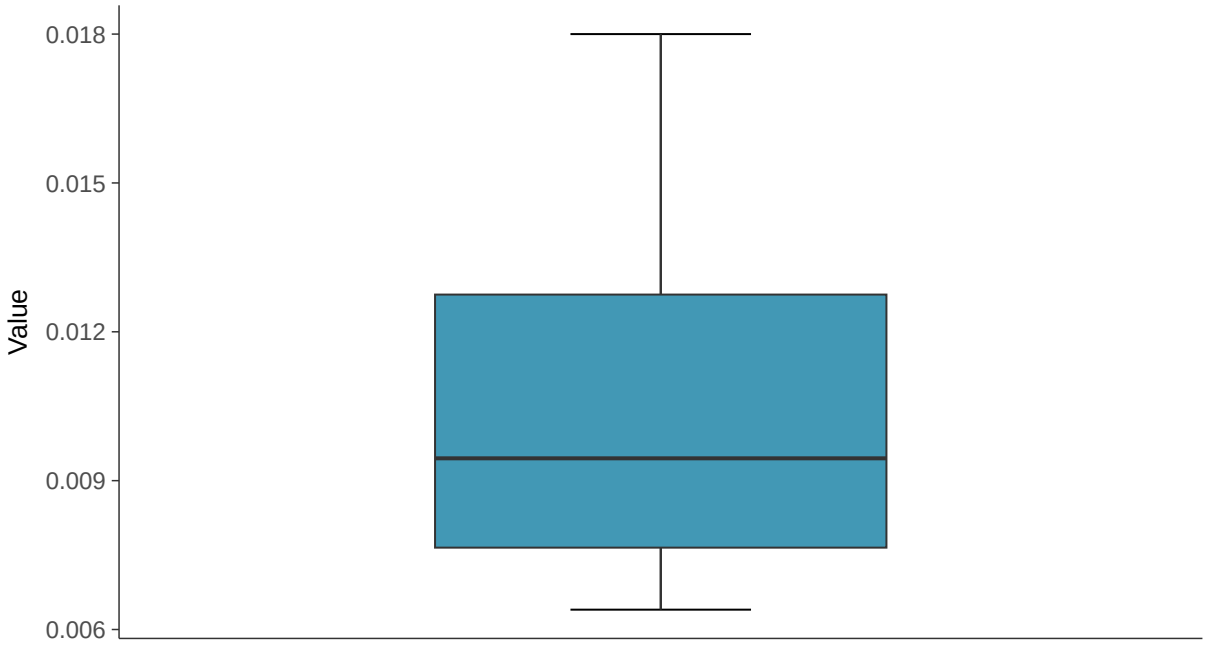
Histogram

Molybdenum, MW-37 (mg/L)



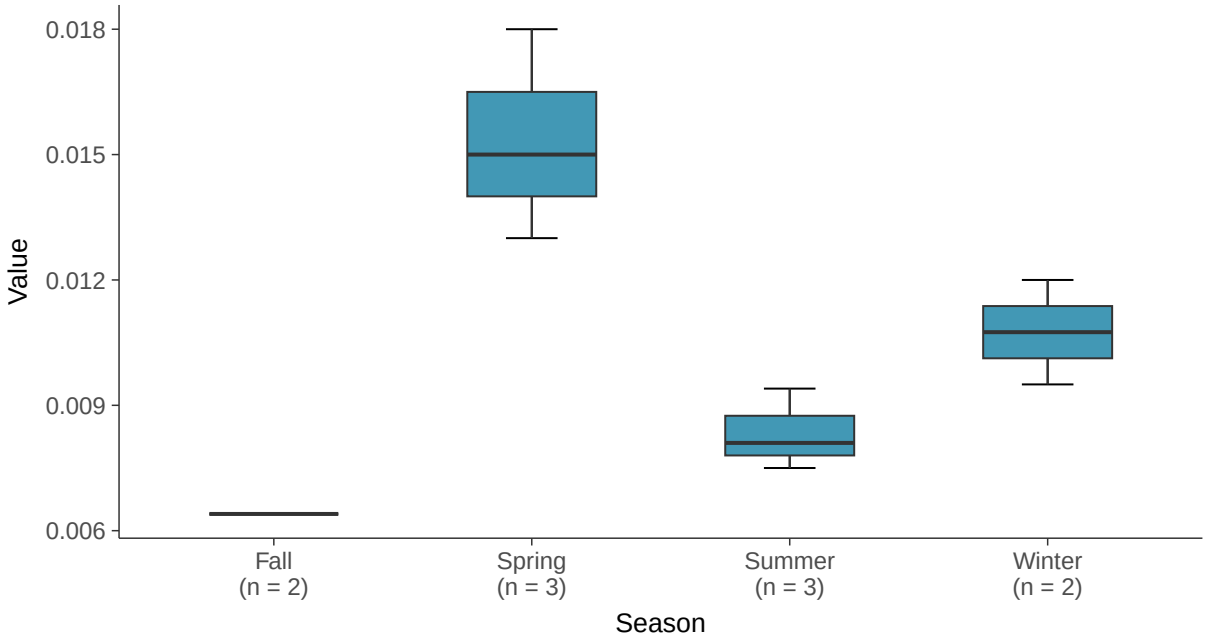
Boxplot

Molybdenum, MW-37 (mg/L)



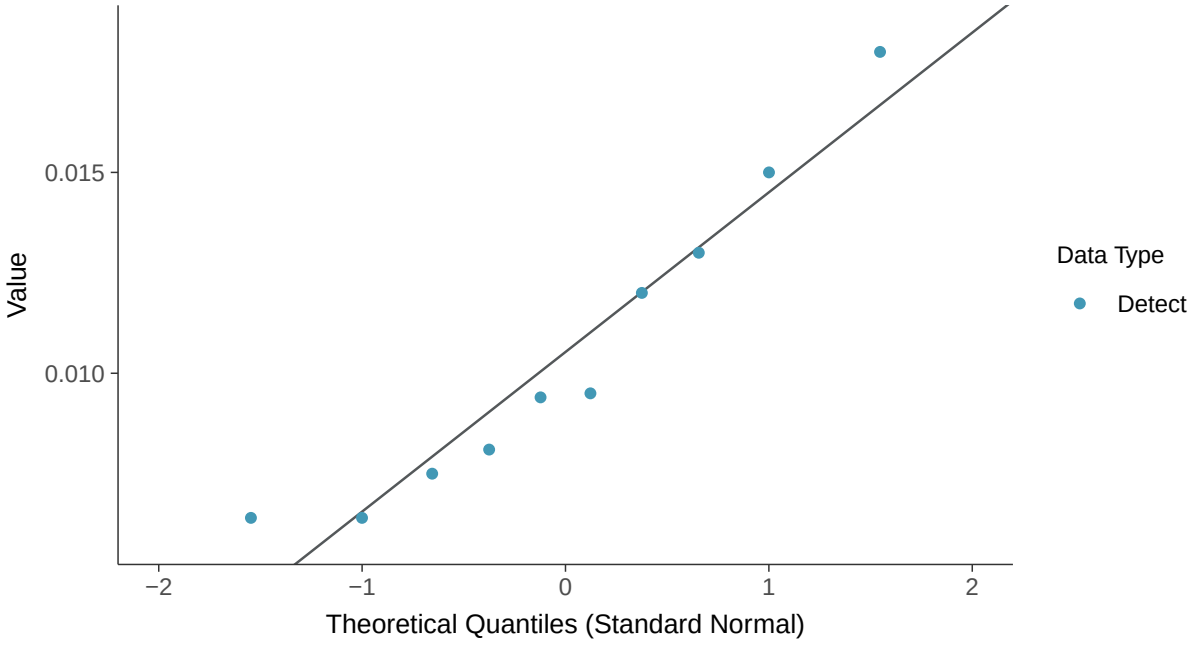
Boxplot by Season

Molybdenum, MW-37 (mg/L)



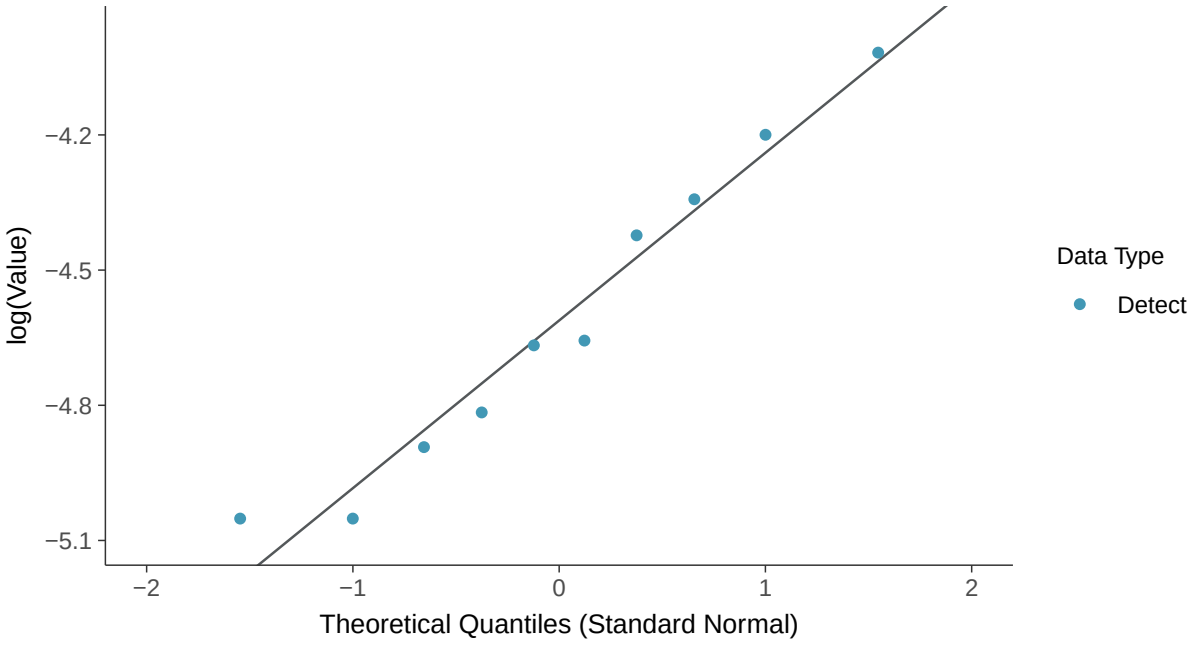
Normal Q-Q plot

Molybdenum, MW-37 (mg/L)



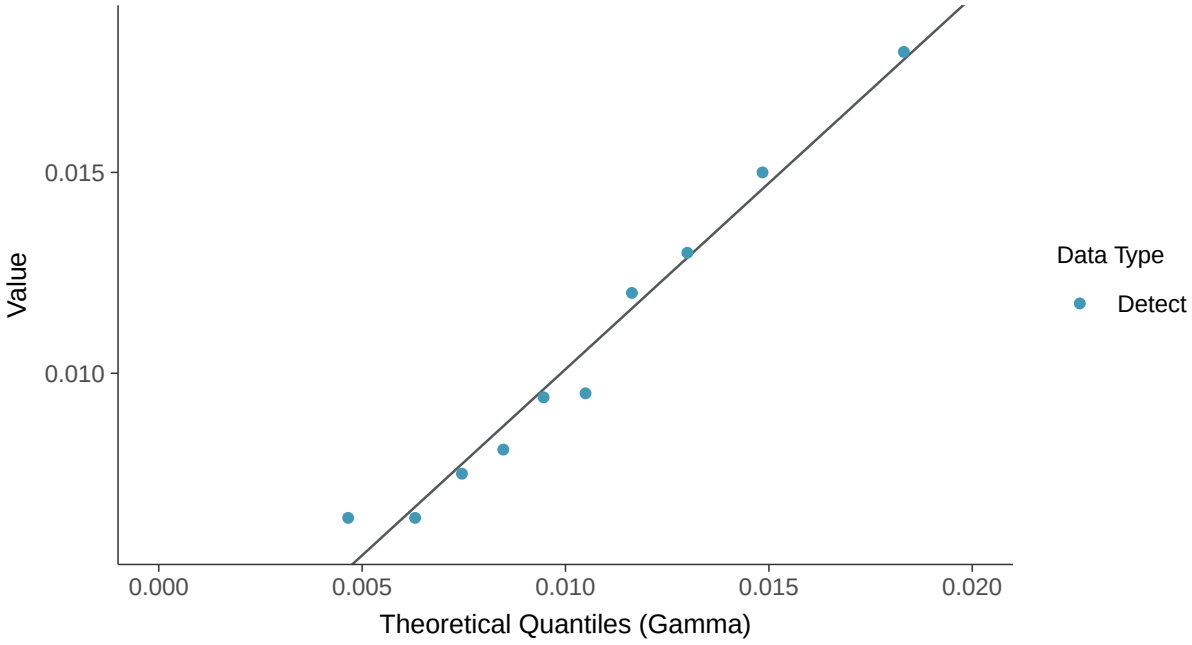
Lognormal Q-Q plot

Molybdenum, MW-37 (mg/L)



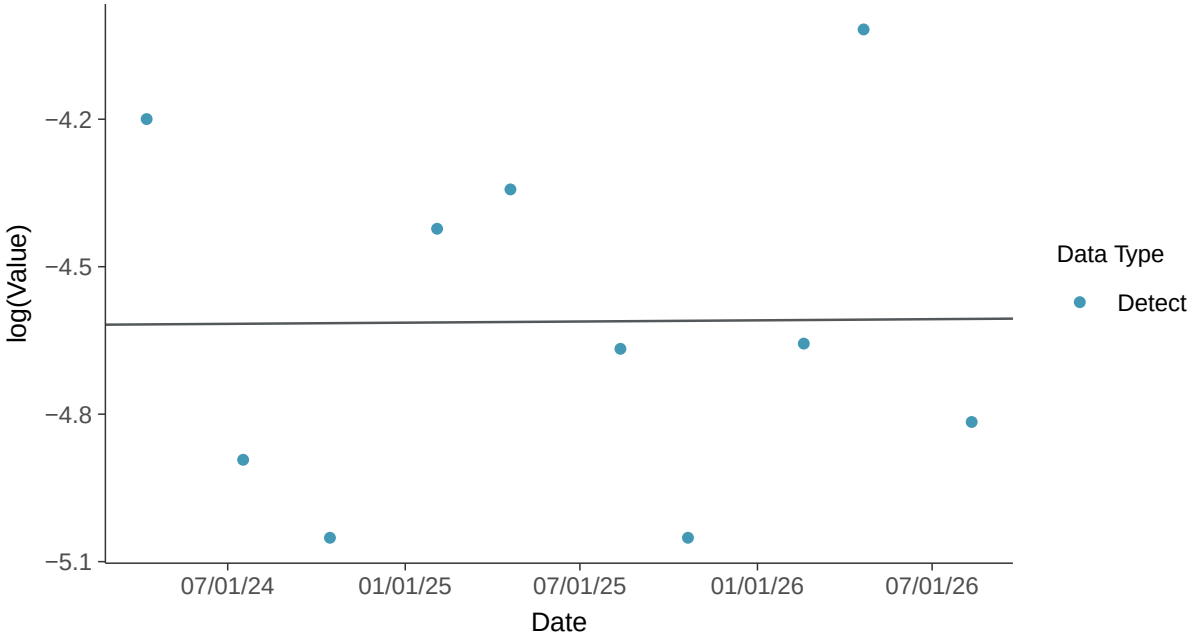
Gamma Q-Q plot

Molybdenum, MW-37 (mg/L)



Trend Regression: Lognormal MLE

Molybdenum, MW-37 (mg/L)

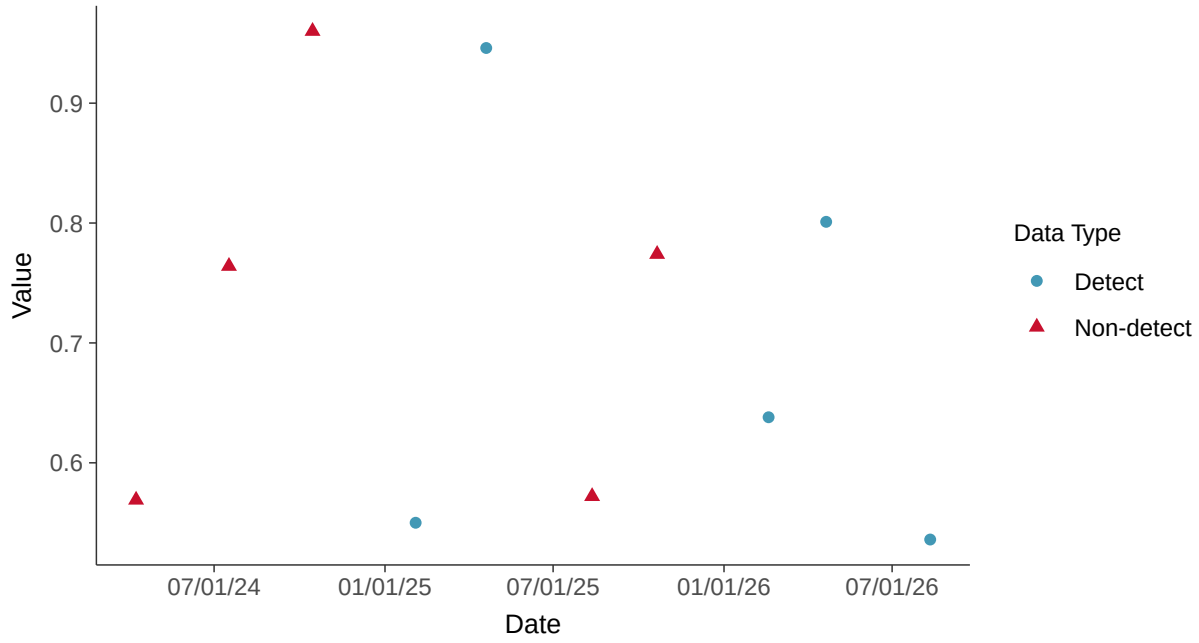


Appendix IV: Radium 226 and 228, MW-37

ID: 47_1_4_121

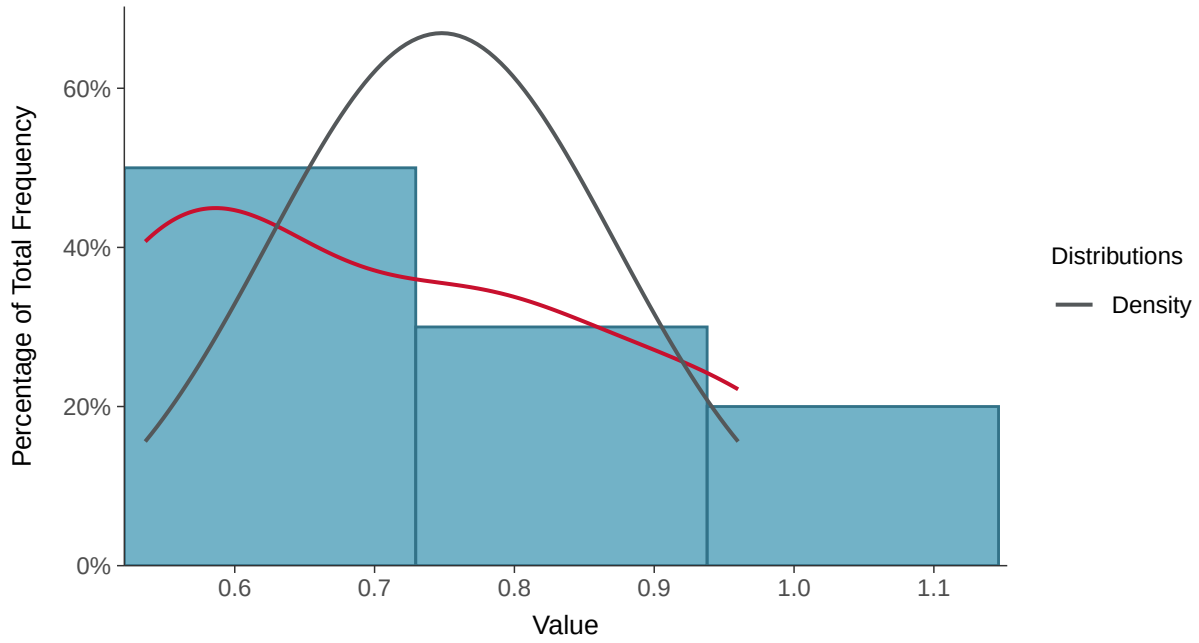
Scatter Plot

Radium 226 and 228, MW-37 (pCi/L)



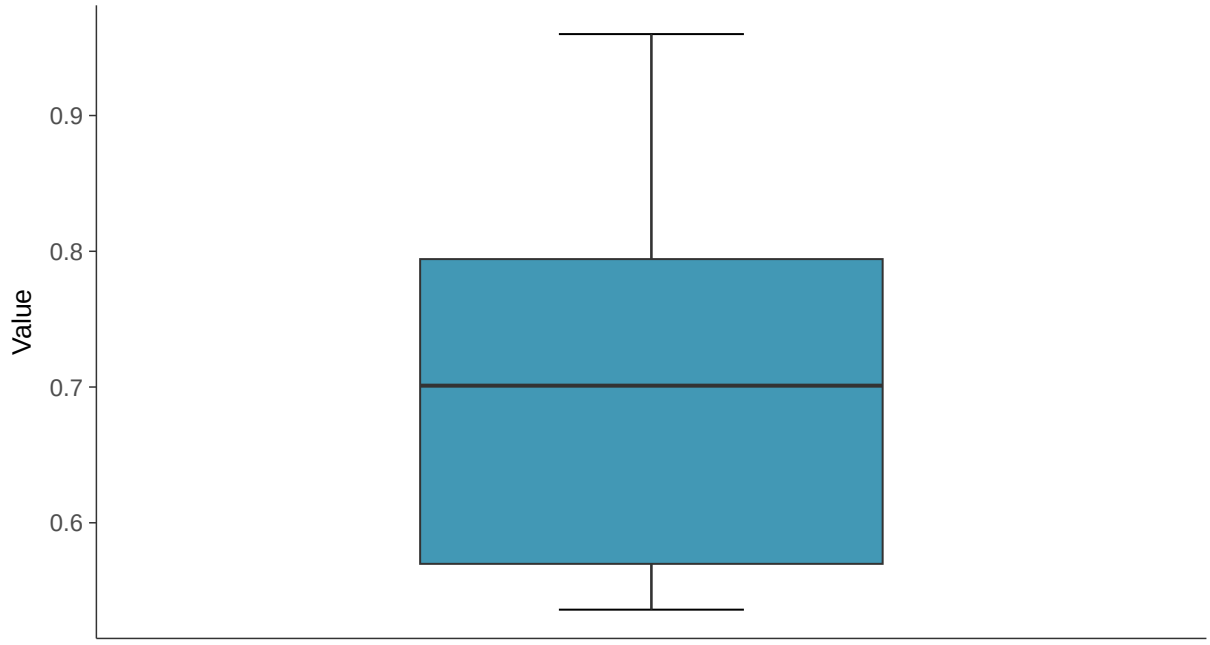
Histogram

Radium 226 and 228, MW-37 (pCi/L)



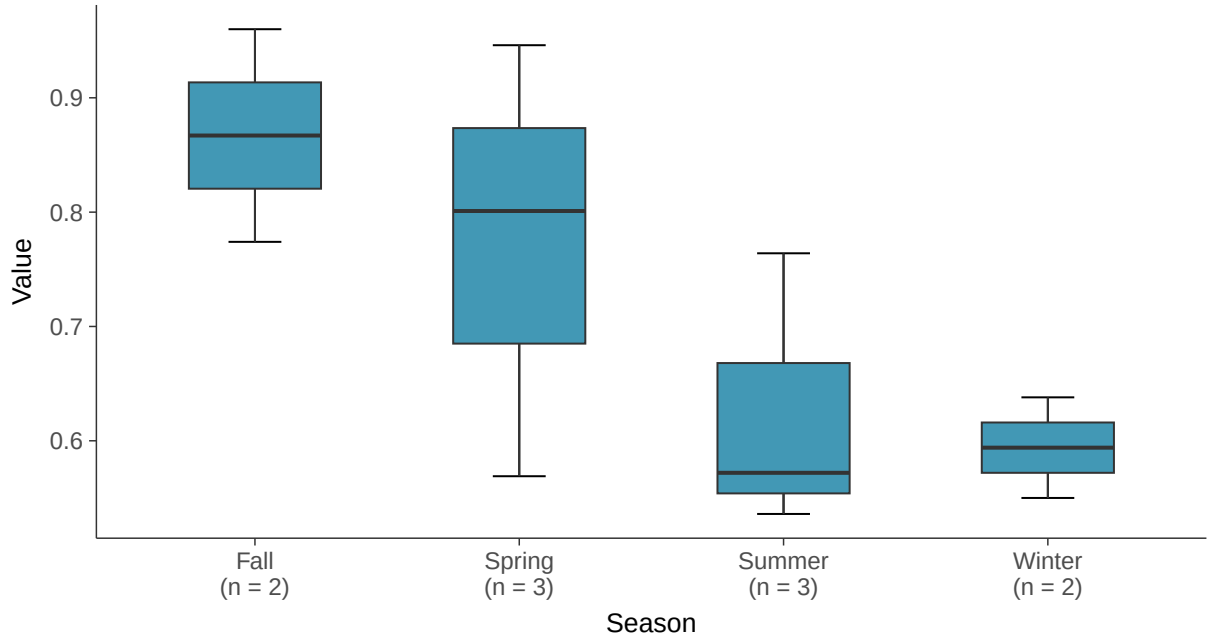
Boxplot

Radium 226 and 228, MW-37 (pCi/L)



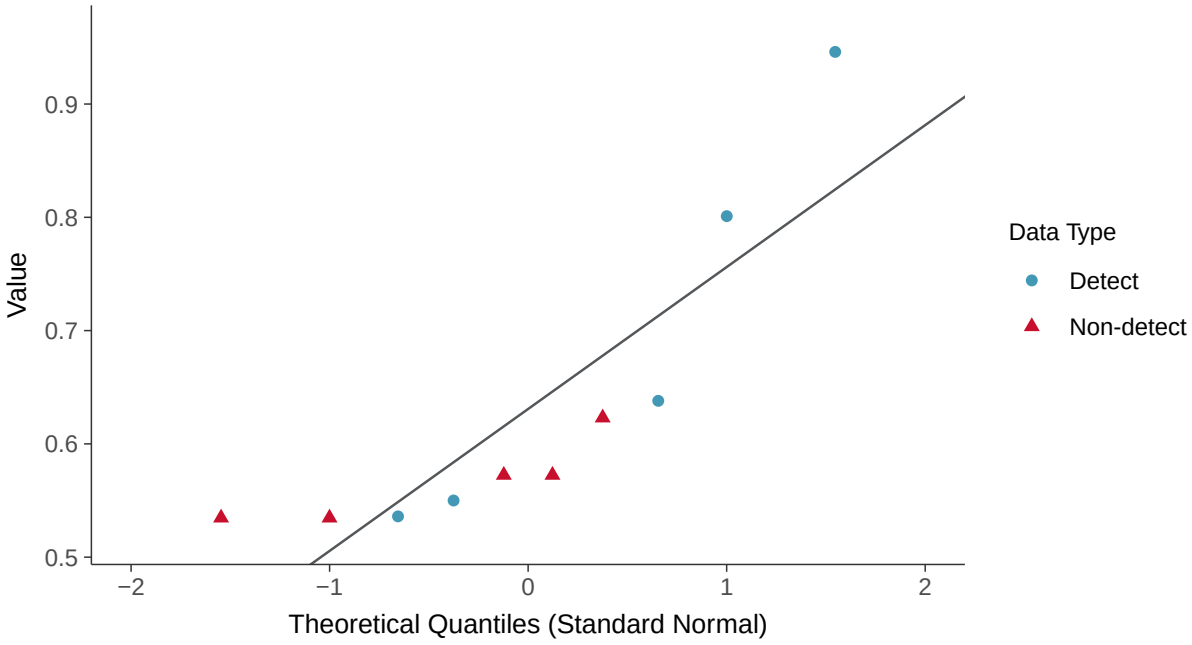
Boxplot by Season

Radium 226 and 228, MW-37 (pCi/L)



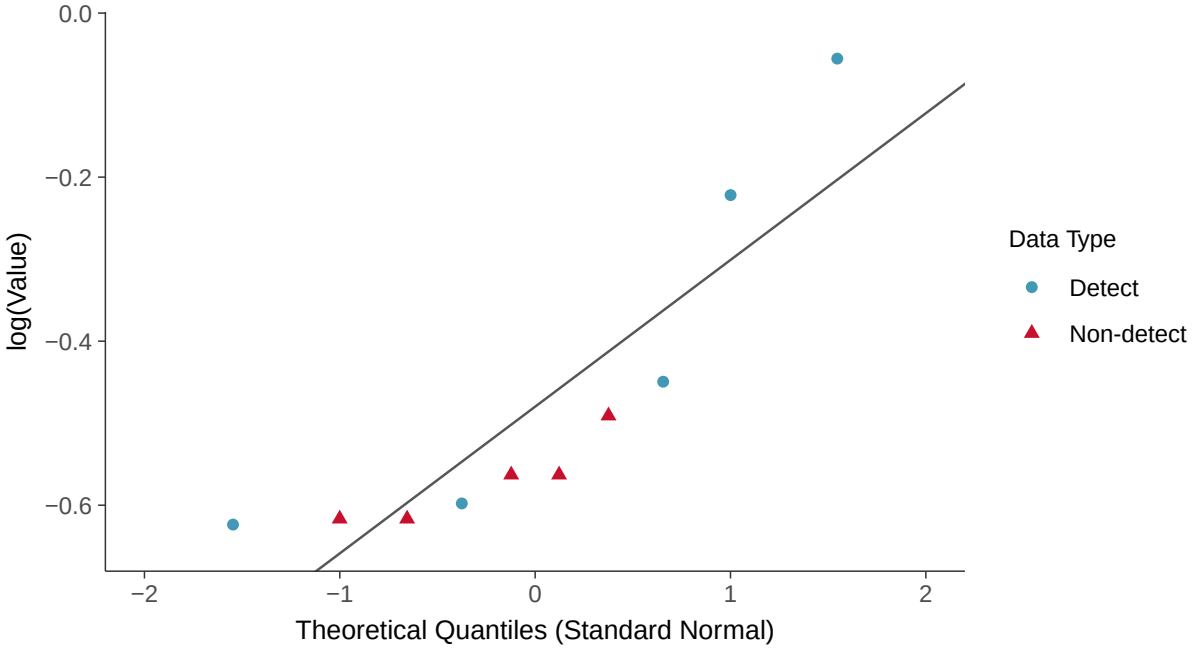
Normal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-37 (pCi/L)



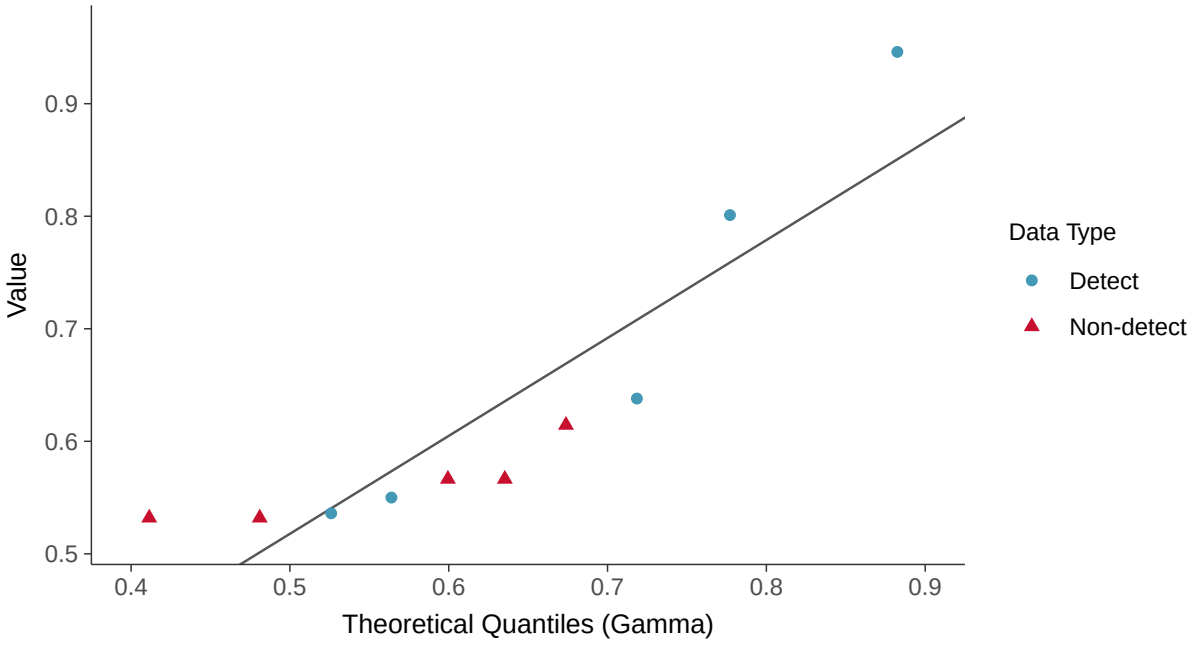
Lognormal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-37 (pCi/L)



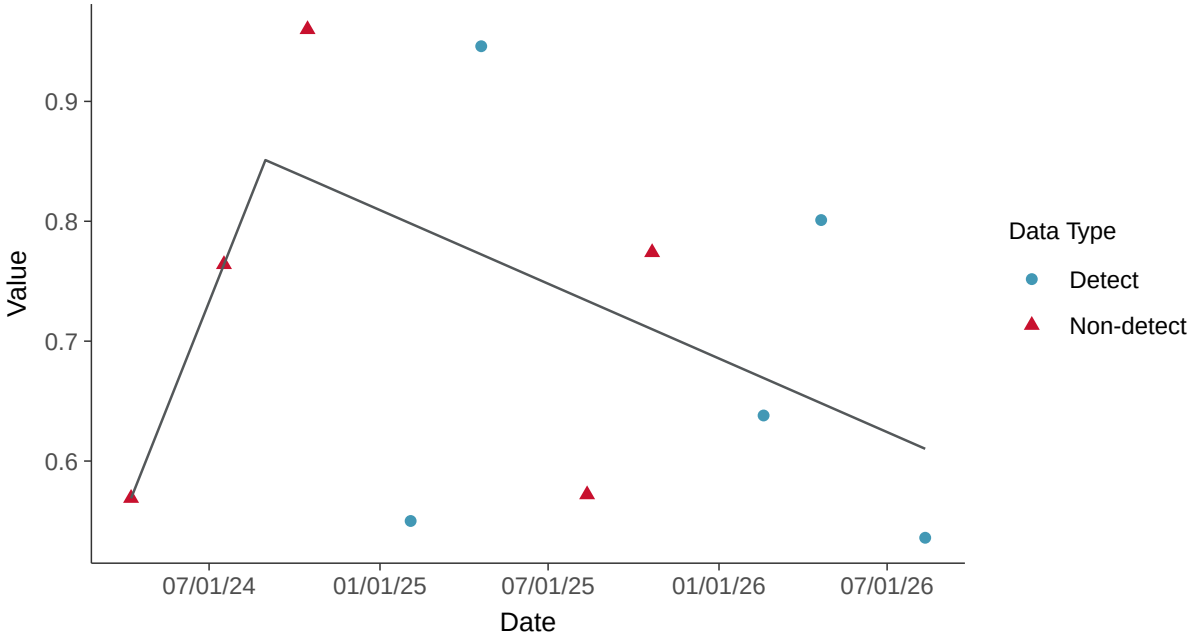
Gamma Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-37 (pCi/L)



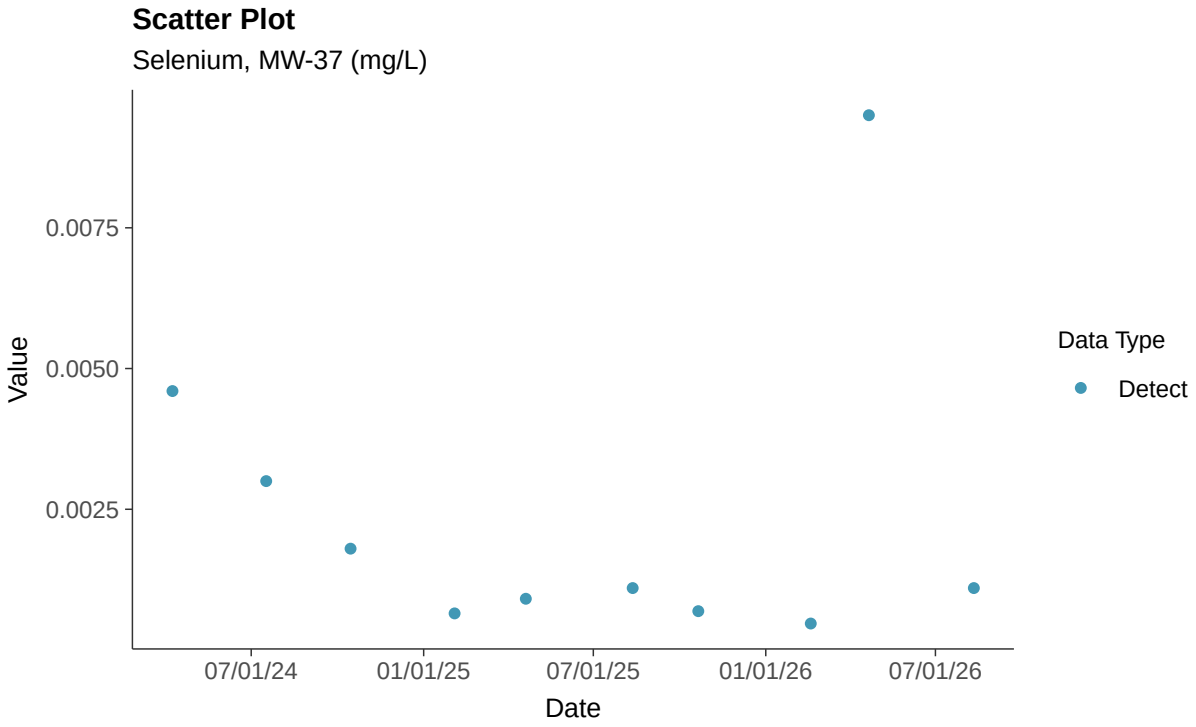
Trend Regression: Piecewise Linear-Linear

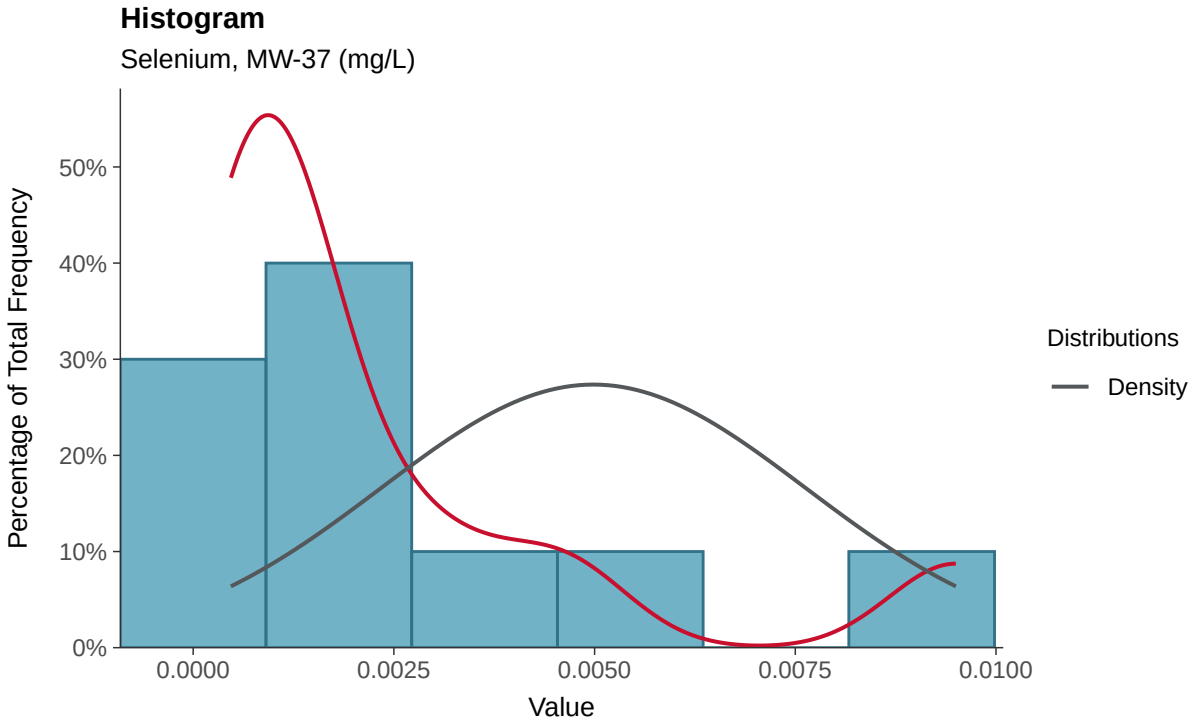
Radium 226 and 228, MW-37 (pCi/L)



Appendix IV: Selenium, MW-37

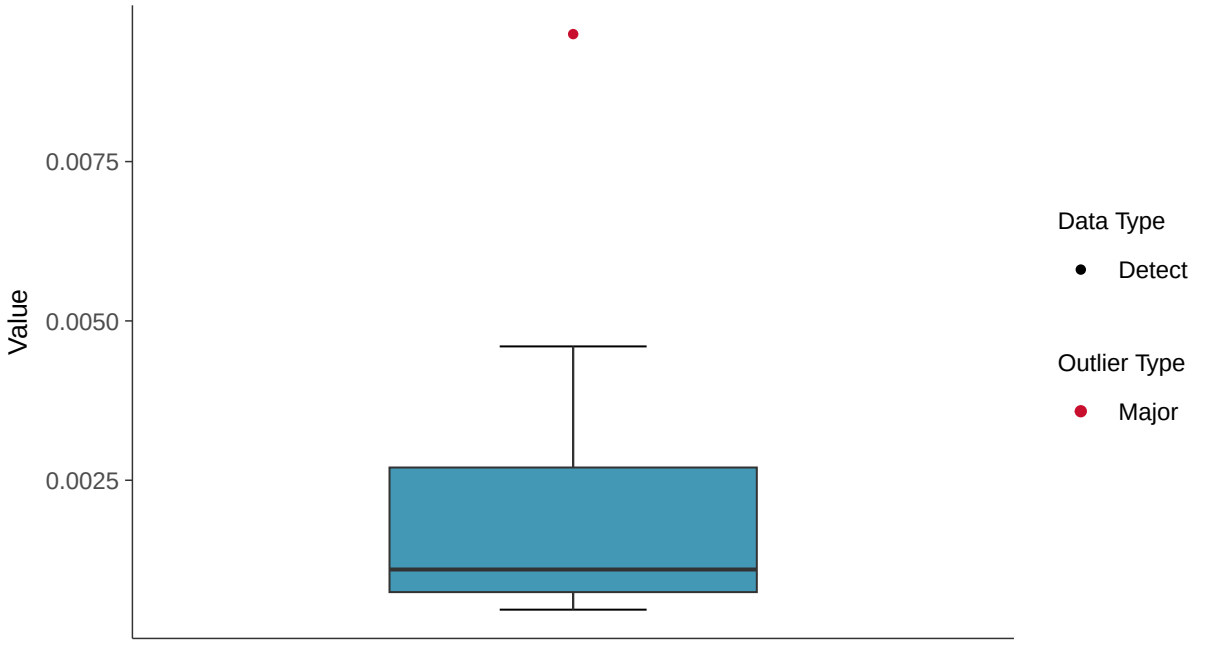
ID: 47_1_4_122





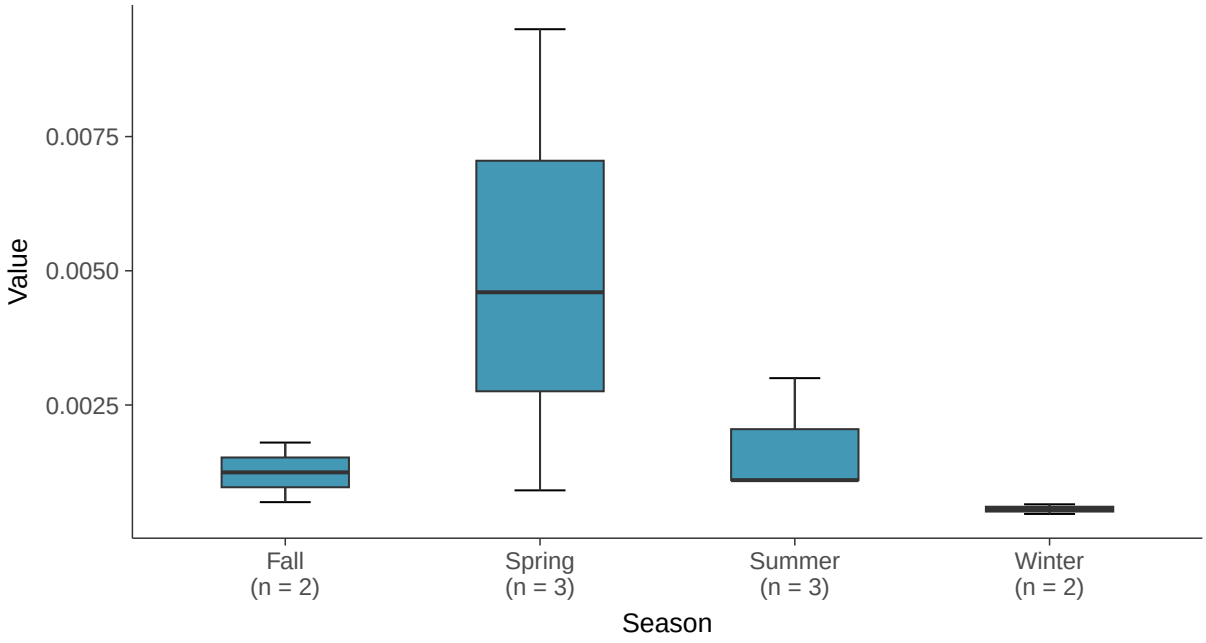
Boxplot

Selenium, MW-37 (mg/L)



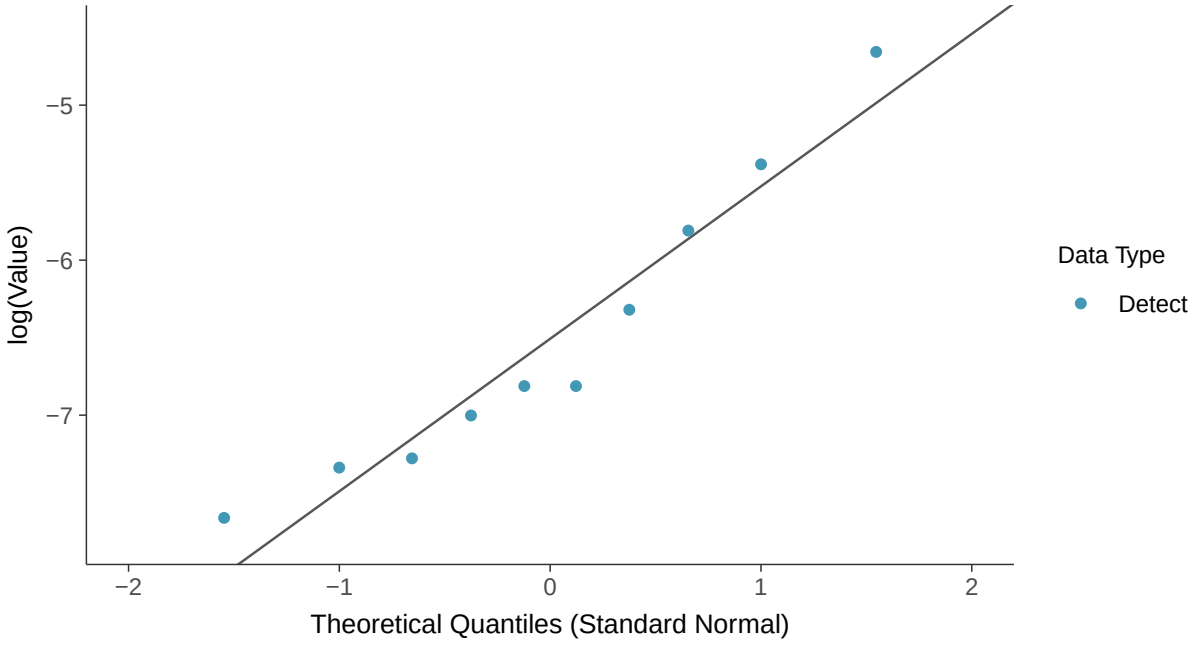
Boxplot by Season

Selenium, MW-37 (mg/L)



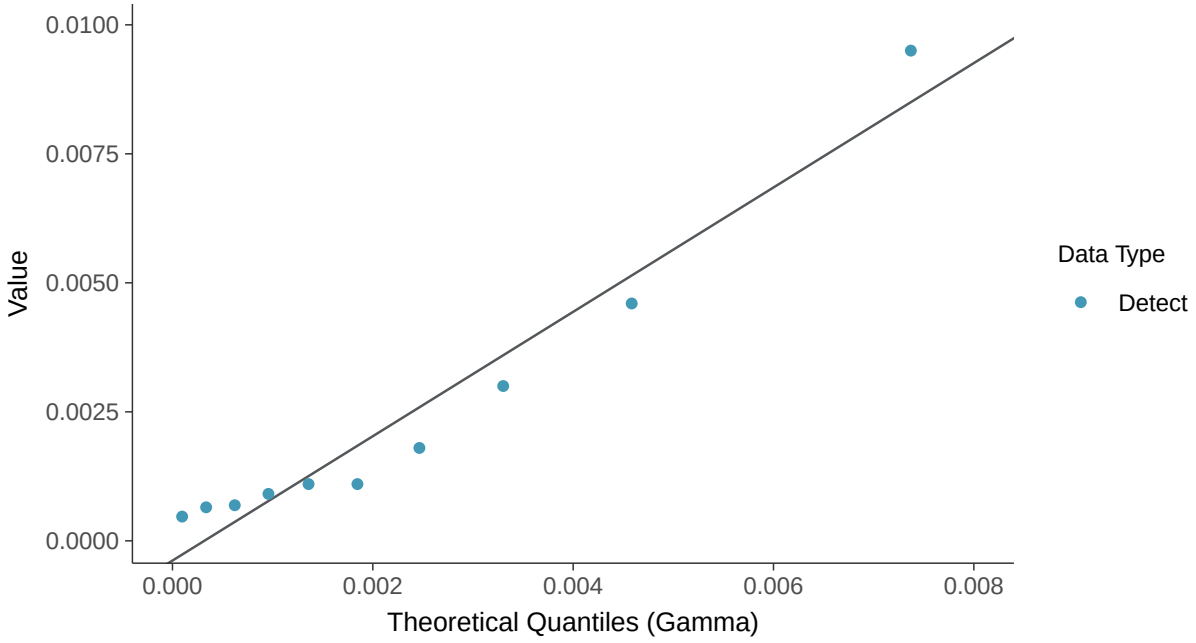
Lognormal Q-Q plot

Selenium, MW-37 (mg/L)



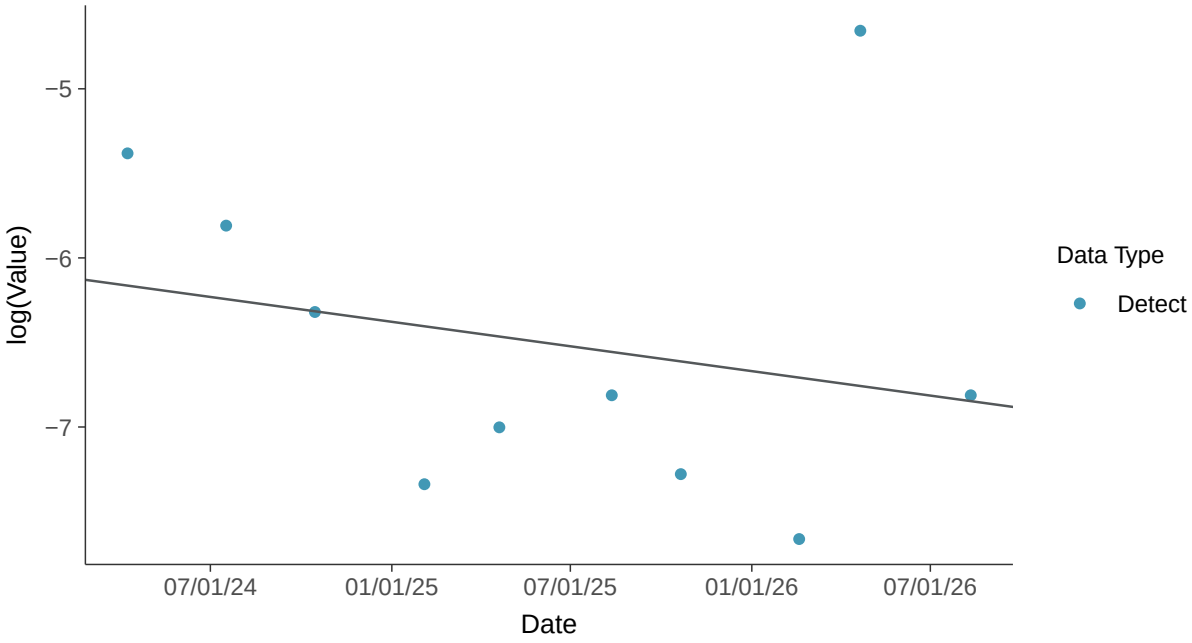
Gamma Q-Q plot

Selenium, MW-37 (mg/L)



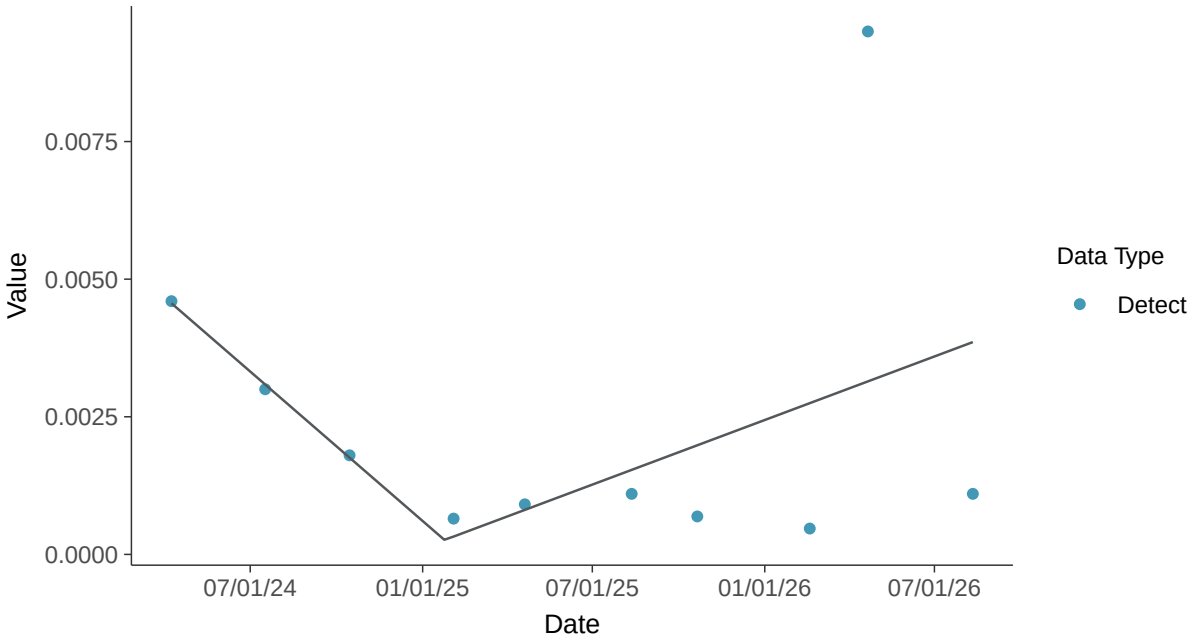
Trend Regression: Lognormal MLE

Selenium, MW-37 (mg/L)



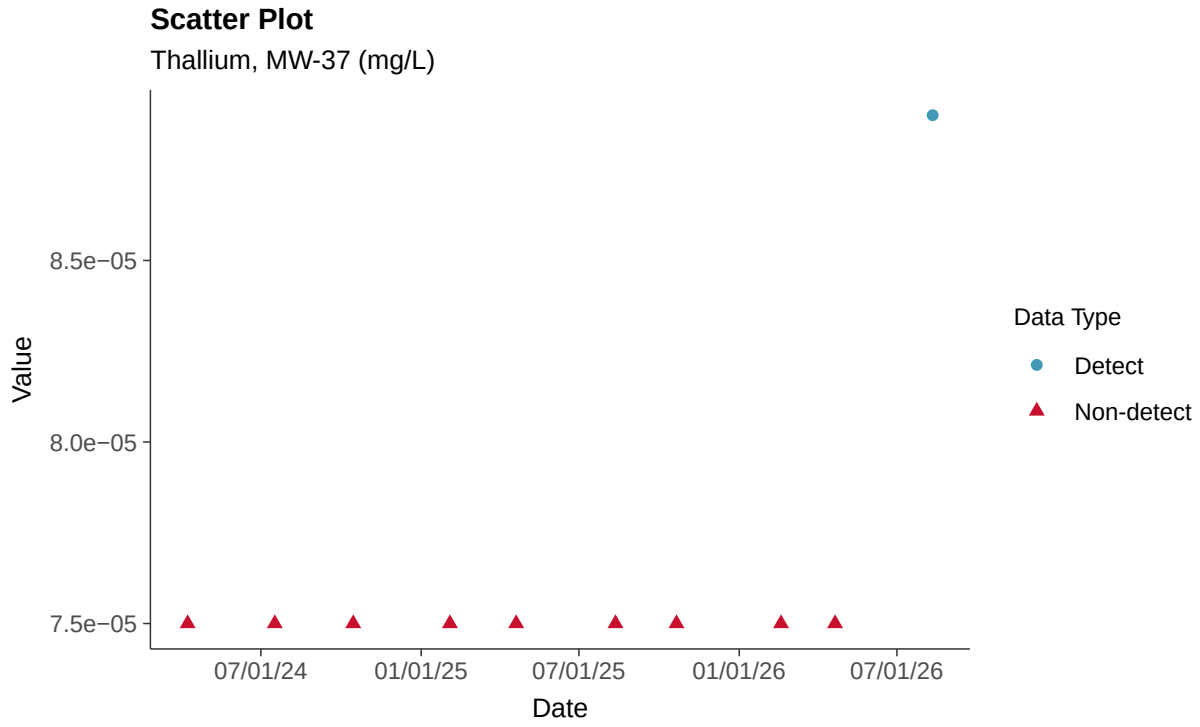
Trend Regression: Piecewise Linear-Linear

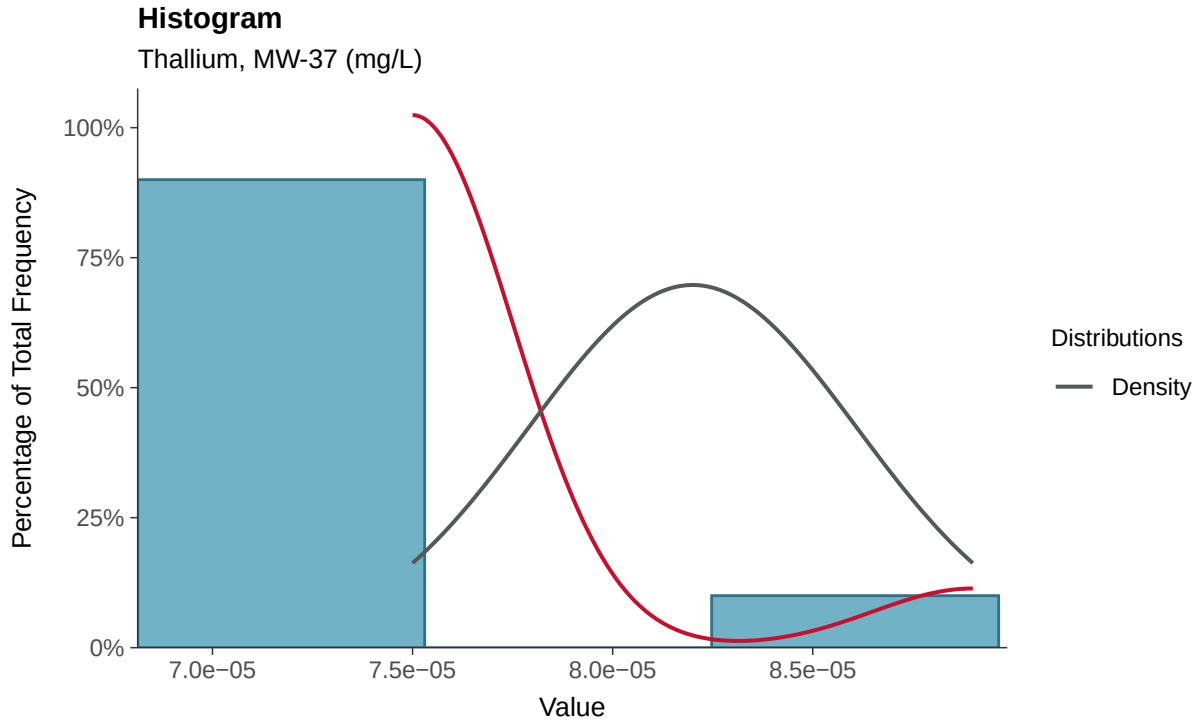
Selenium, MW-37 (mg/L)



Appendix IV: Thallium, MW-37

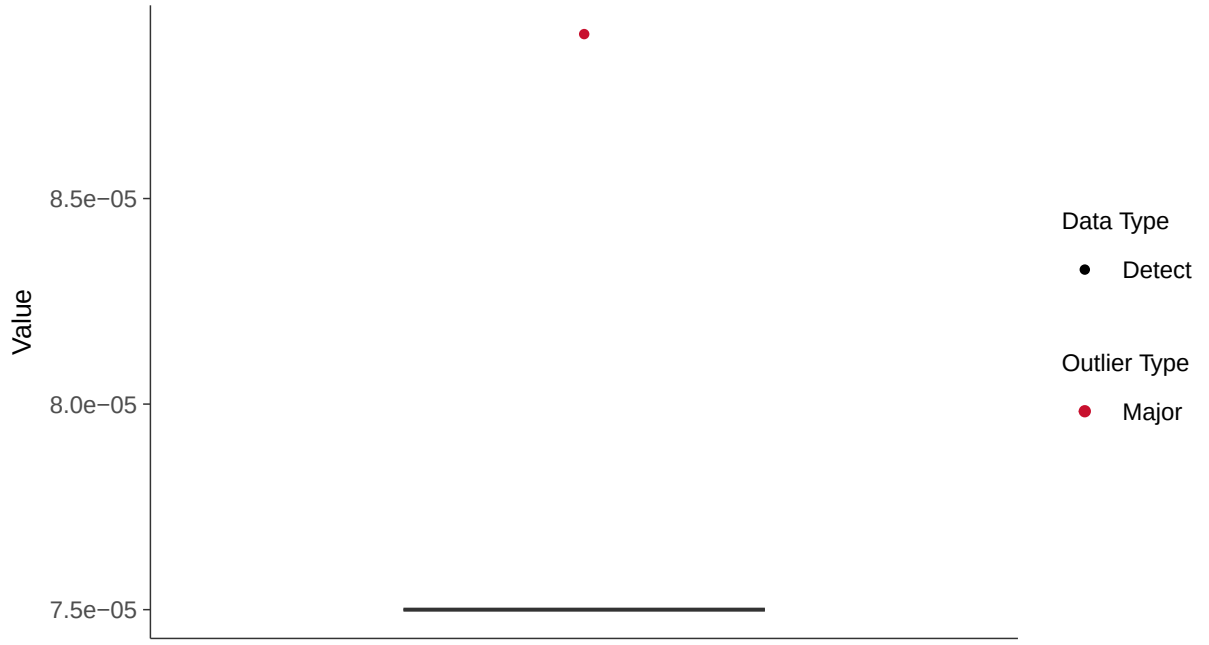
ID: 47_1_4_125





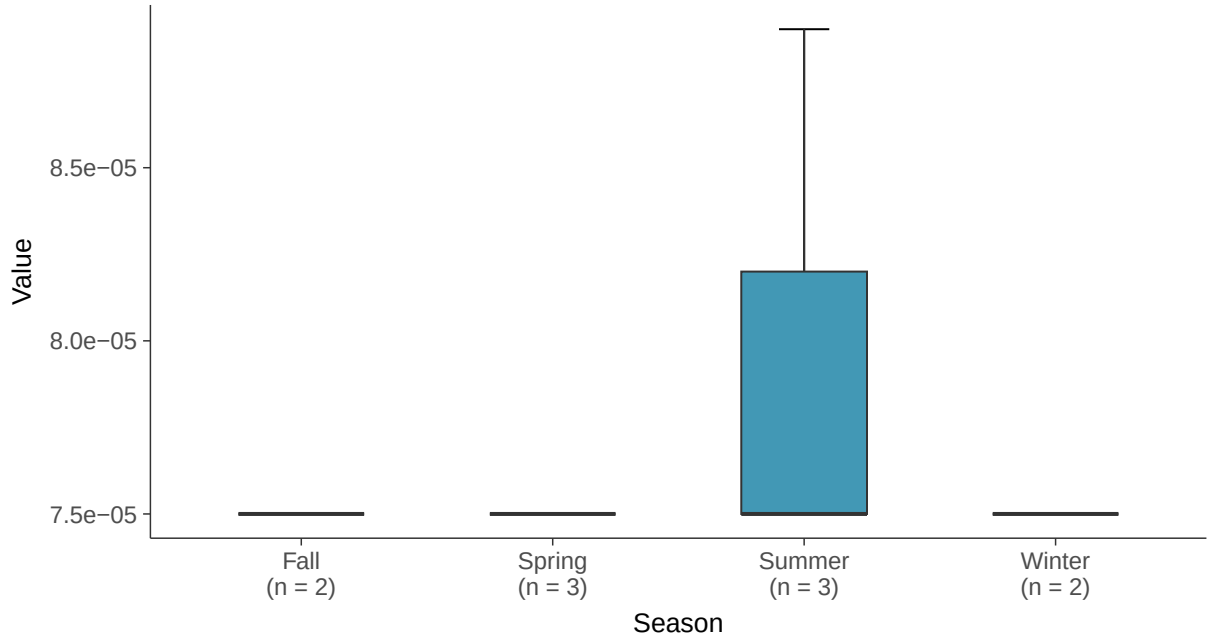
Boxplot

Thallium, MW-37 (mg/L)



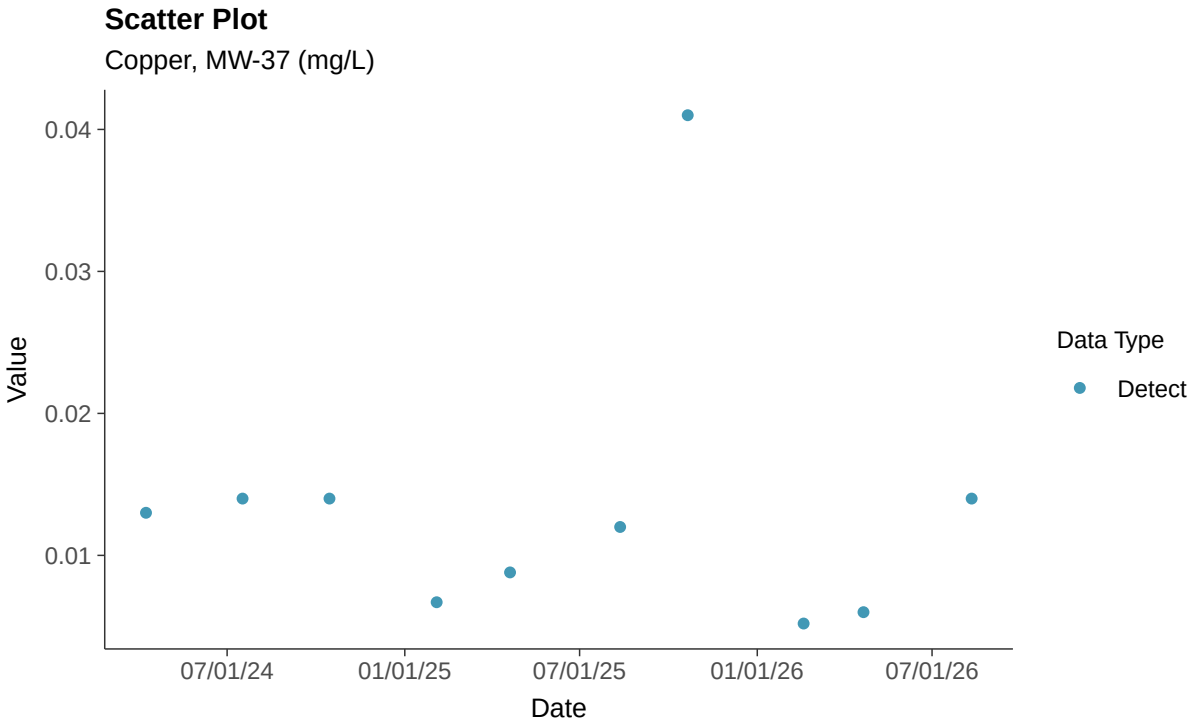
Boxplot by Season

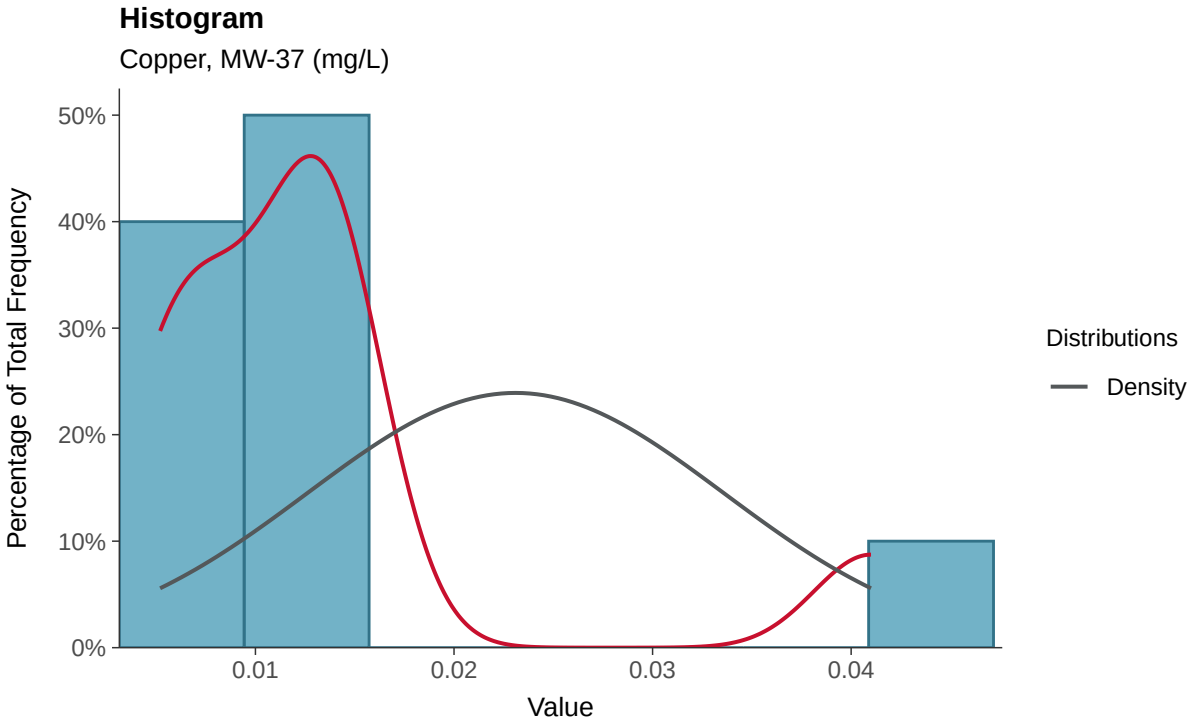
Thallium, MW-37 (mg/L)



Part 115: Copper, MW-37

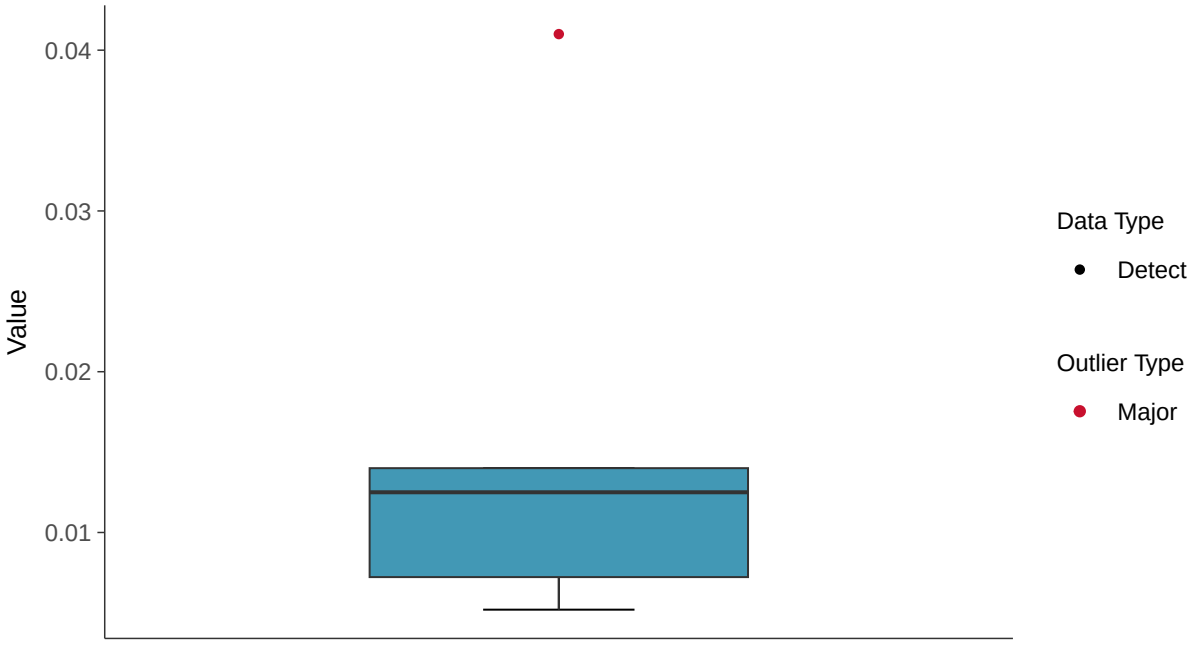
ID: 47_1_5_111





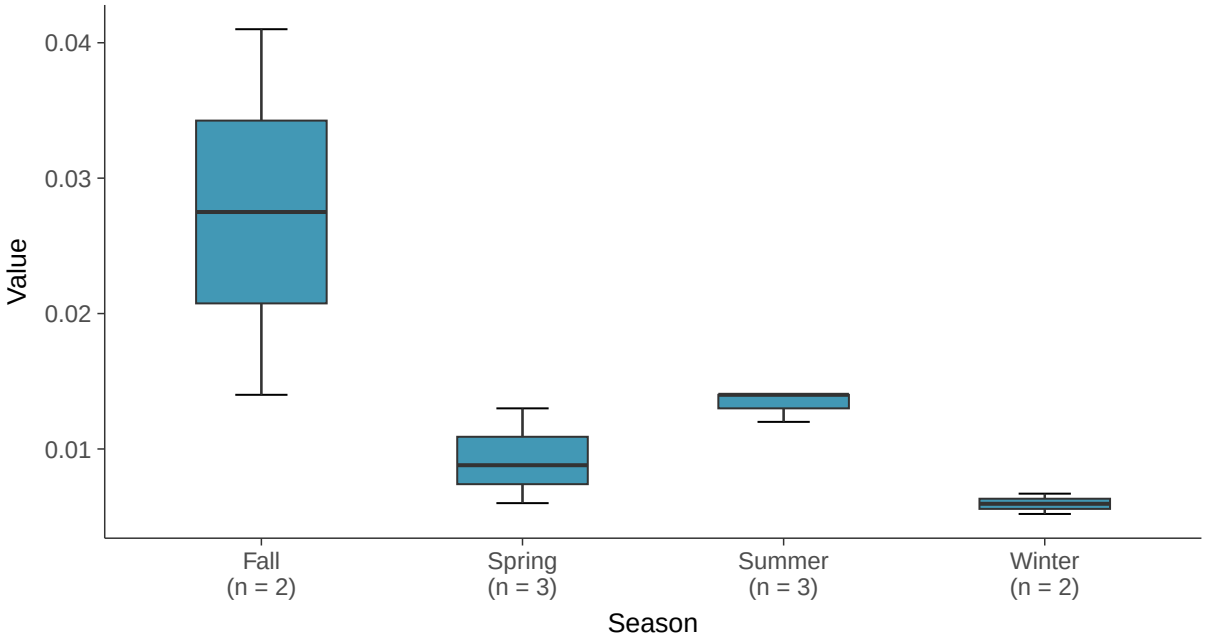
Boxplot

Copper, MW-37 (mg/L)



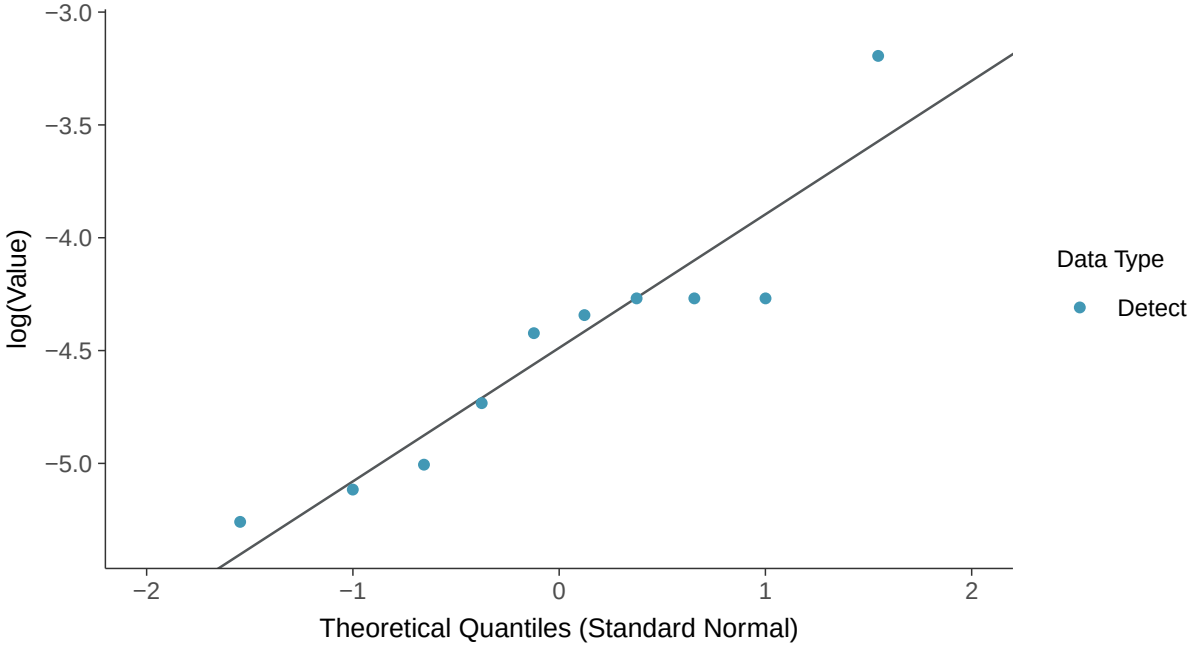
Boxplot by Season

Copper, MW-37 (mg/L)



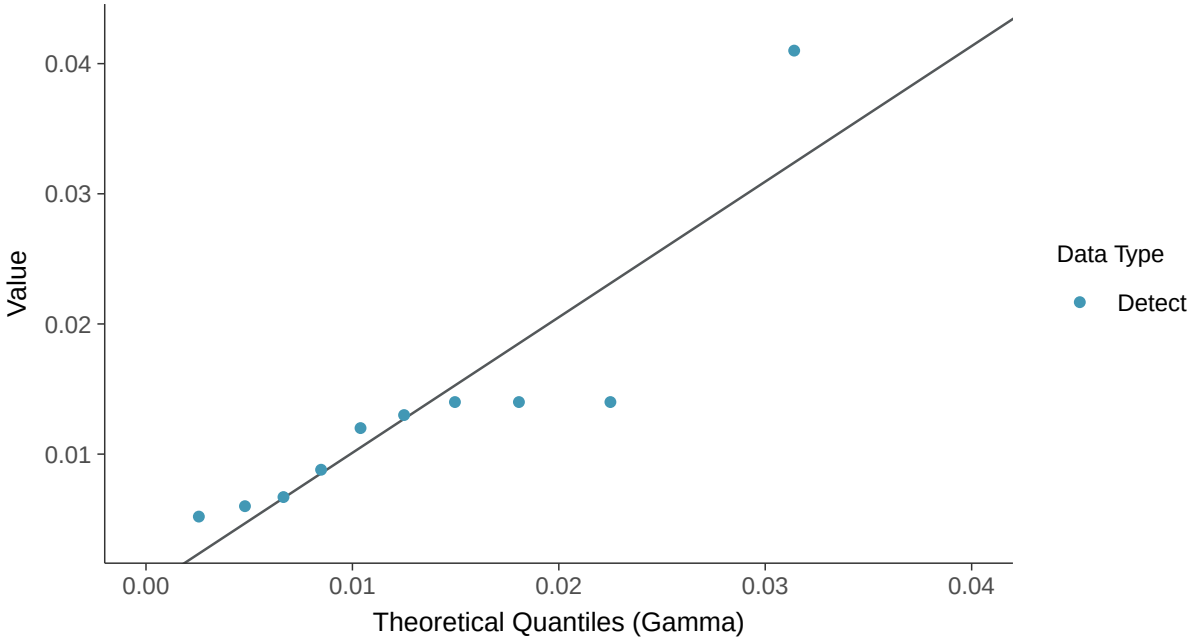
Lognormal Q-Q plot

Copper, MW-37 (mg/L)



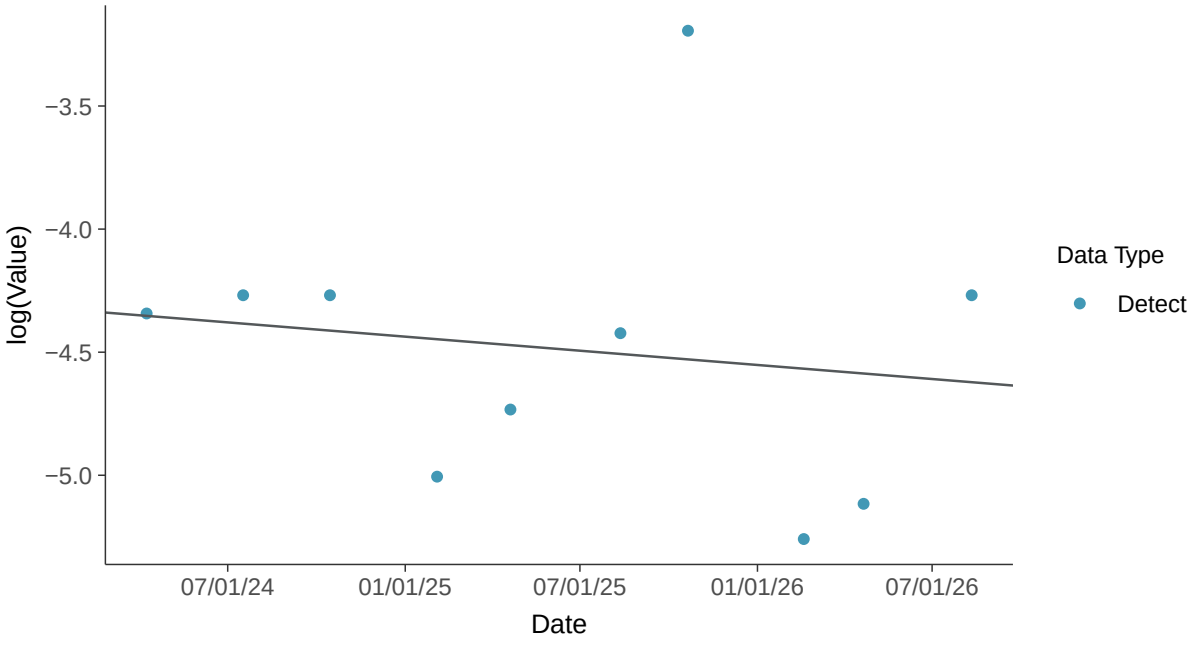
Gamma Q-Q plot

Copper, MW-37 (mg/L)



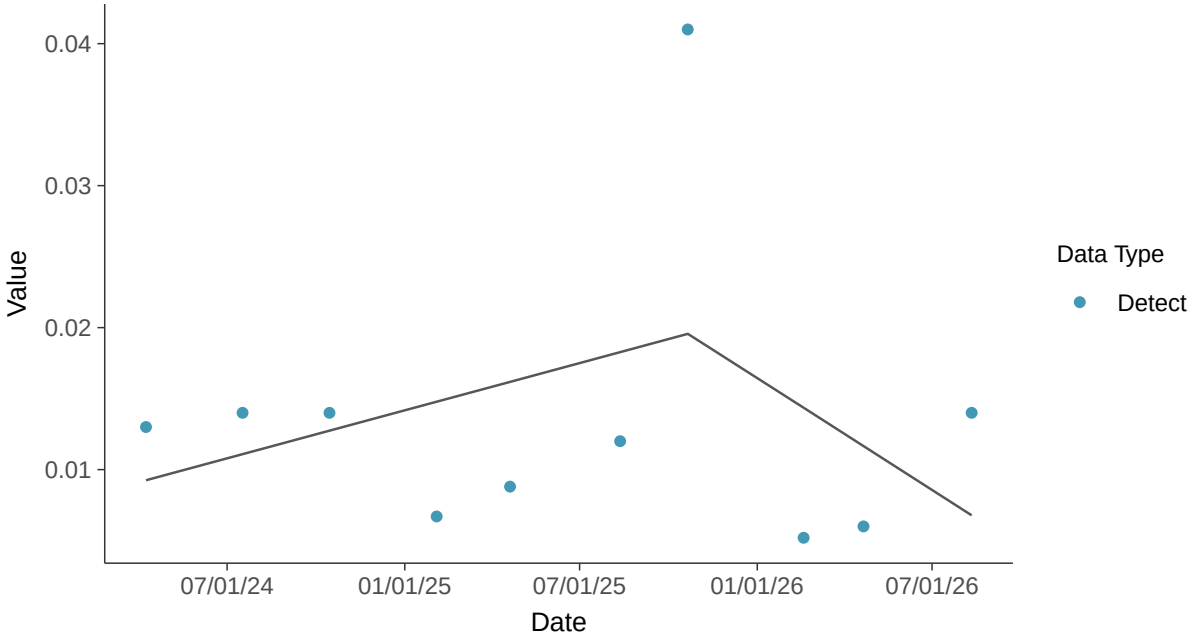
Trend Regression: Lognormal MLE

Copper, MW-37 (mg/L)



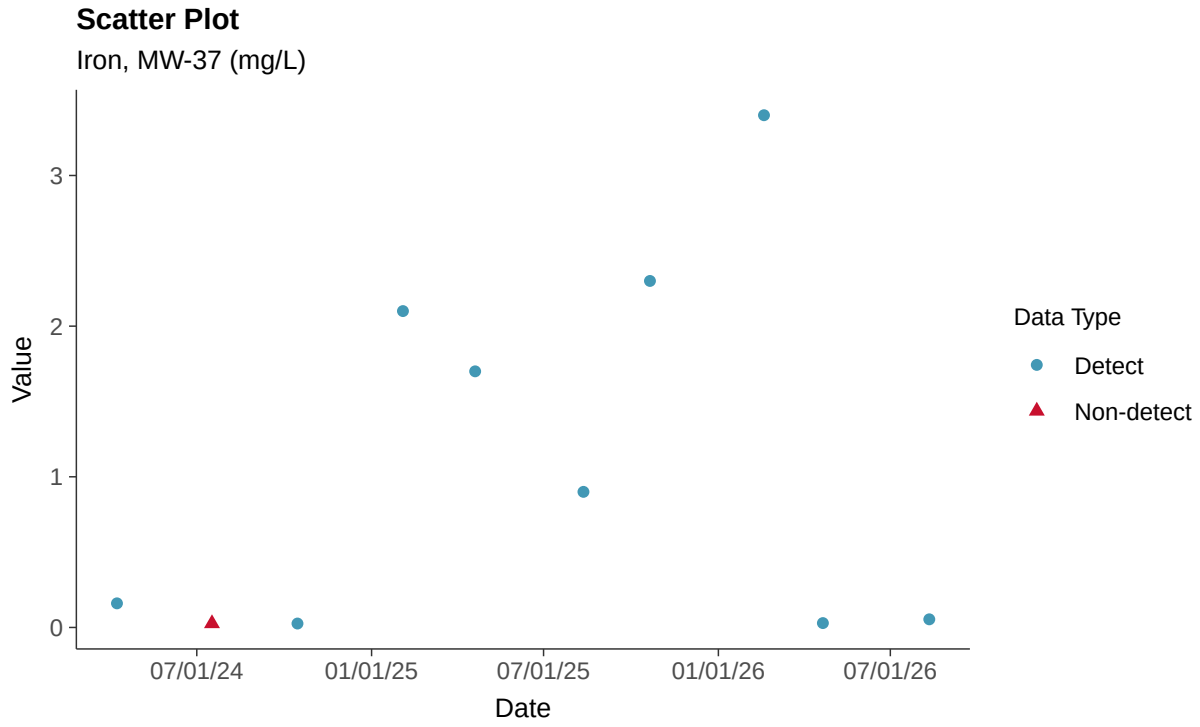
Trend Regression: Piecewise Linear-Linear

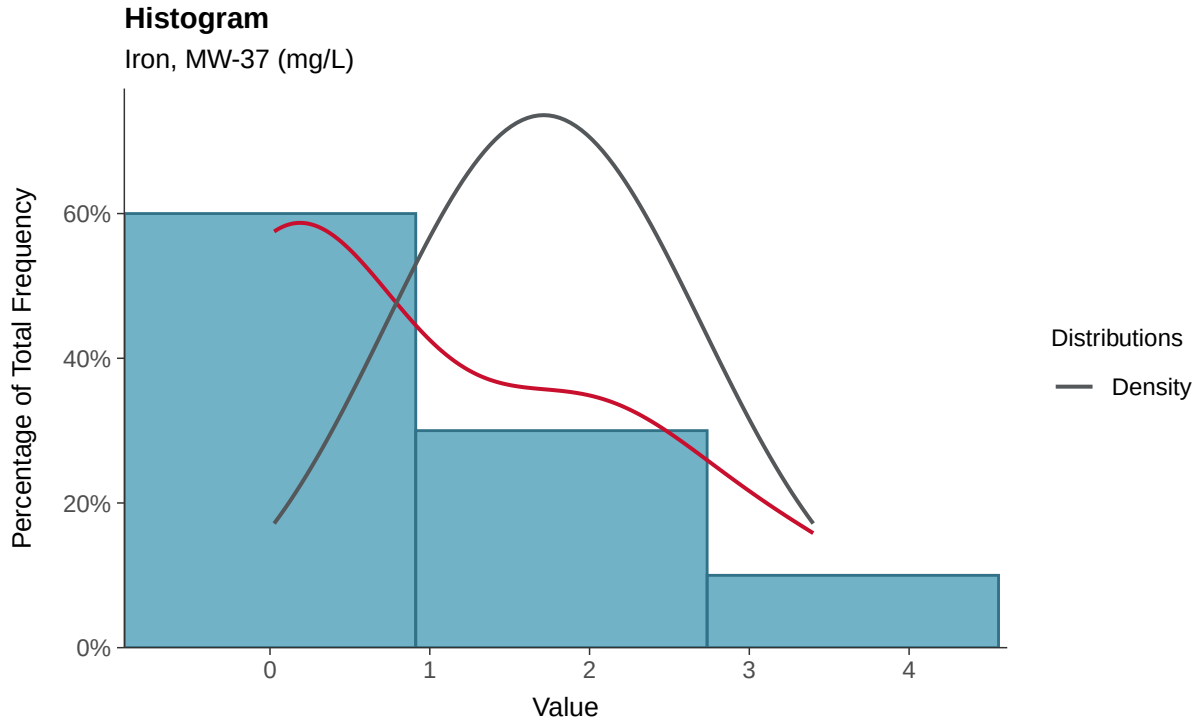
Copper, MW-37 (mg/L)



Part 115: Iron, MW-37

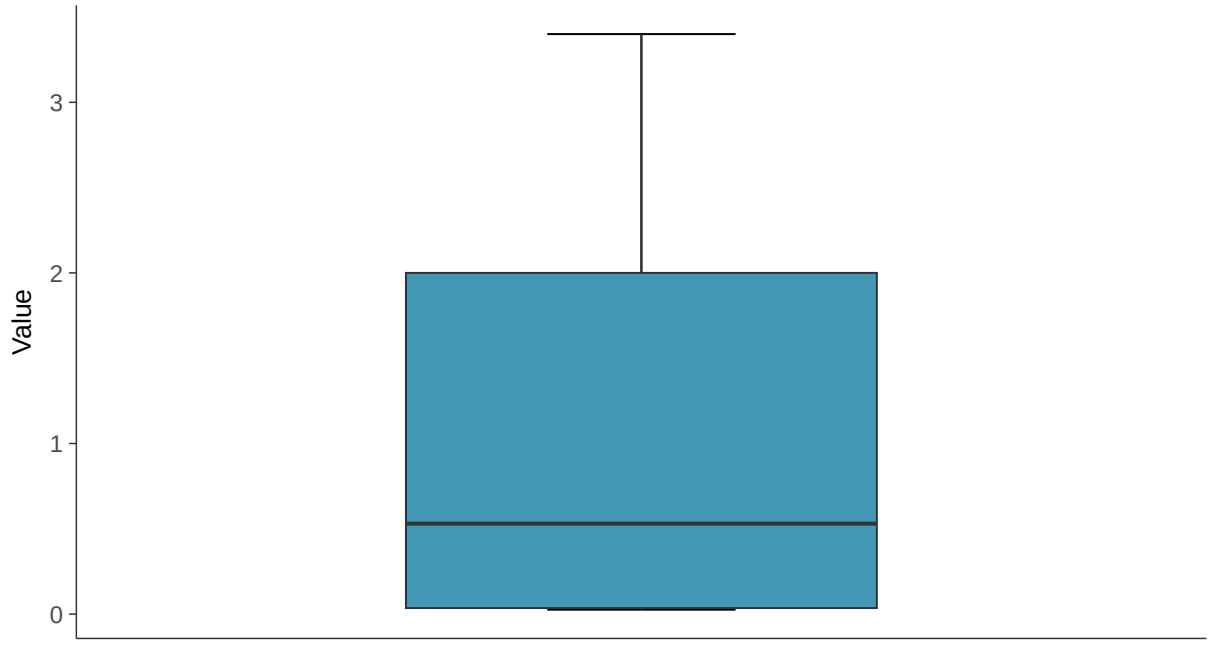
ID: 47_1_5_114





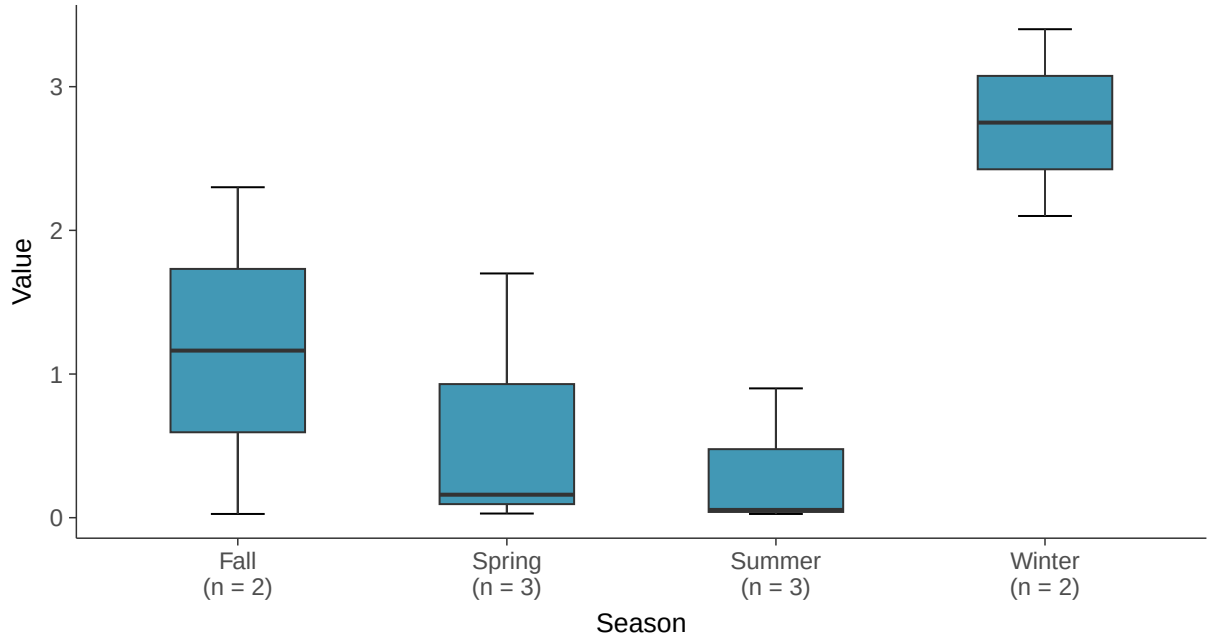
Boxplot

Iron, MW-37 (mg/L)



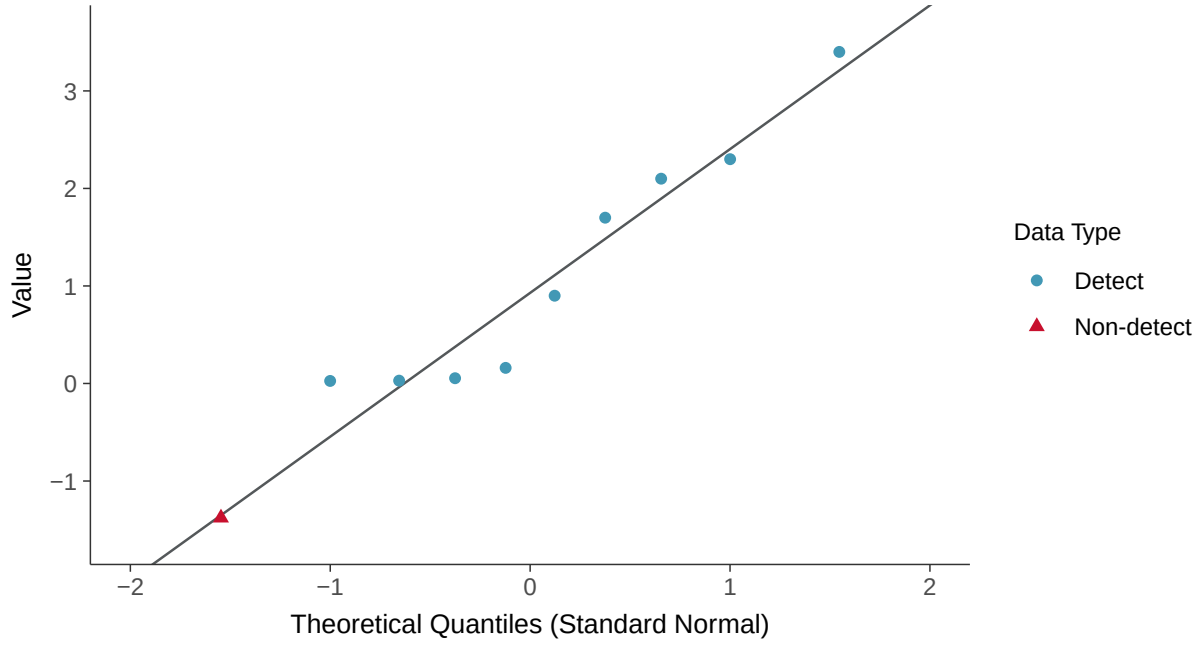
Boxplot by Season

Iron, MW-37 (mg/L)



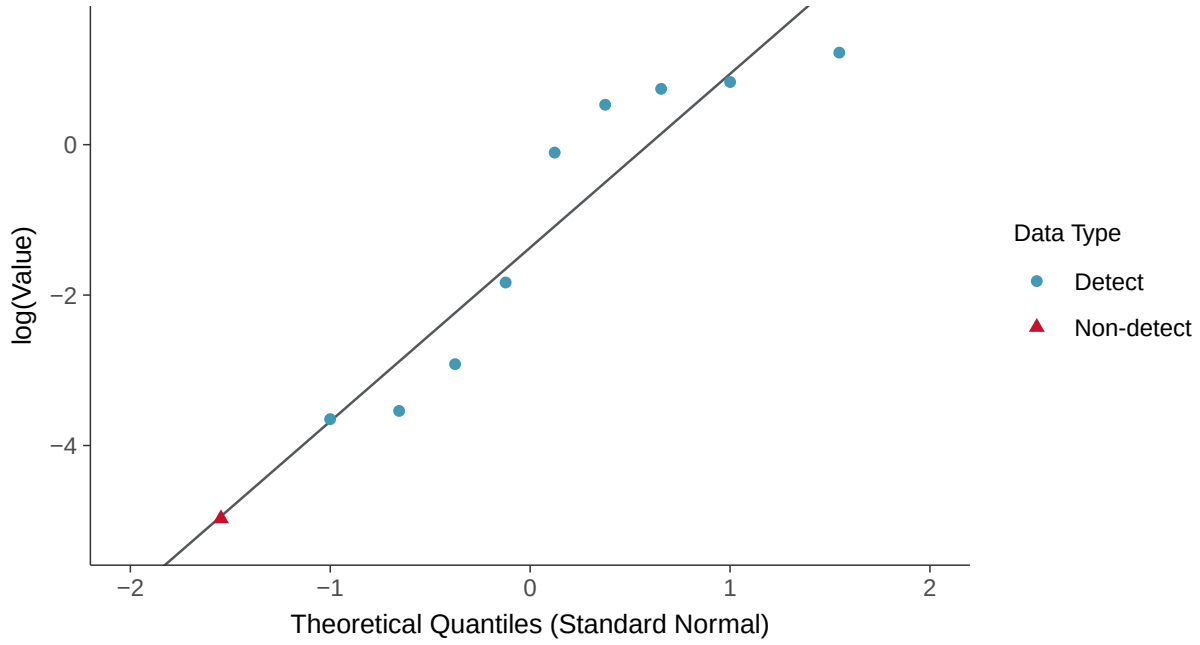
Normal Q-Q plot using ROS Imputed Estimates

Iron, MW-37 (mg/L)



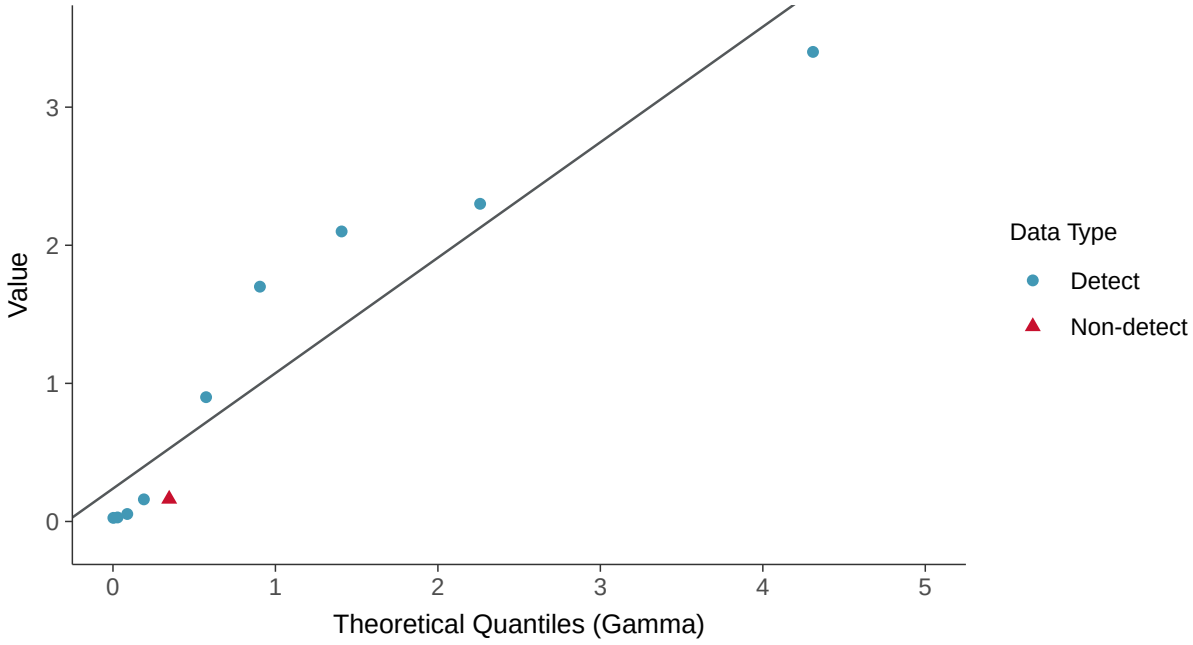
Lognormal Q-Q plot using ROS Imputed Estimates

Iron, MW-37 (mg/L)



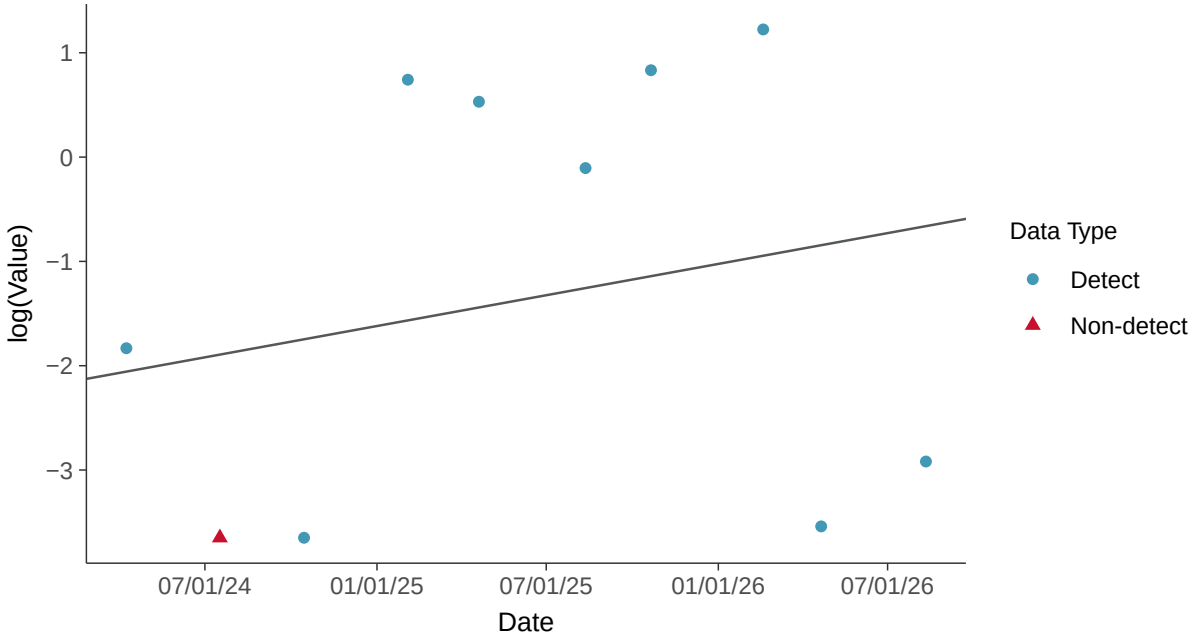
Gamma Q-Q plot using ROS Imputed Estimates

Iron, MW-37 (mg/L)



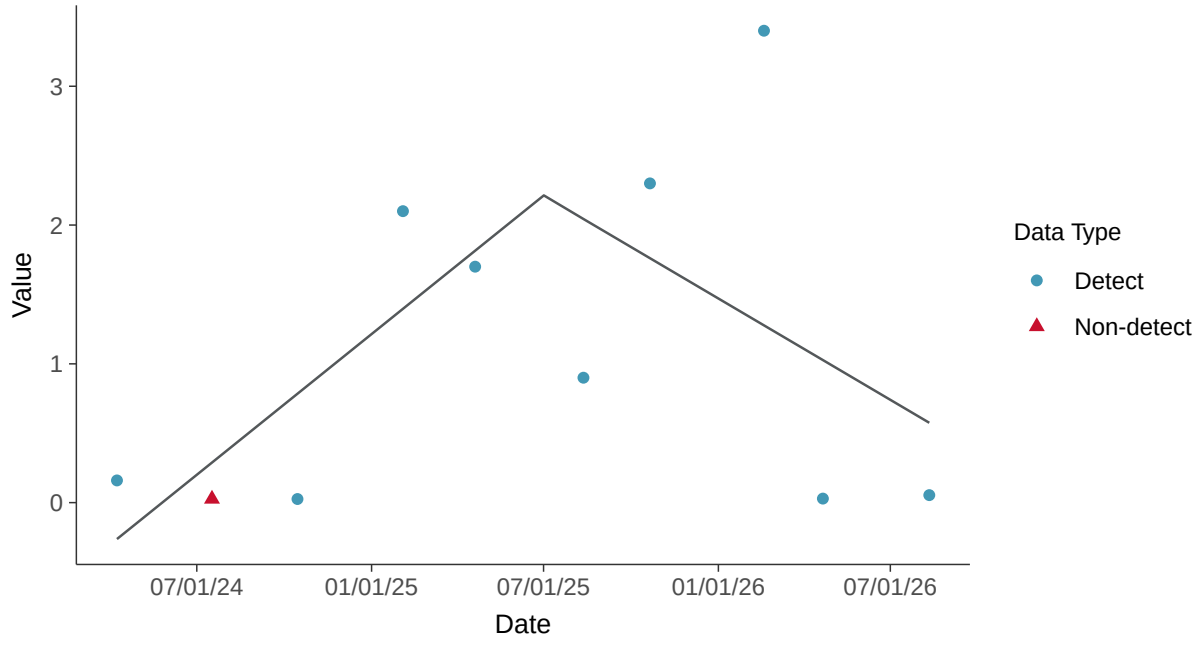
Trend Regression: Lognormal MLE

Iron, MW-37 (mg/L)



Trend Regression: Piecewise Linear-Linear

Iron, MW-37 (mg/L)

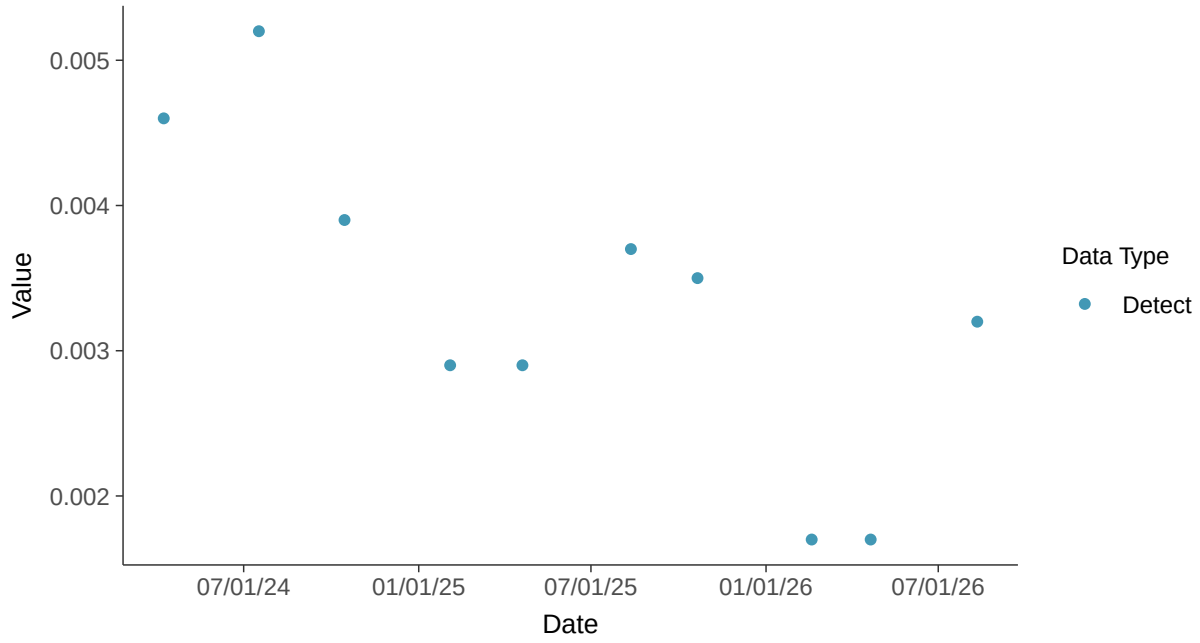


Part 115: Nickel, MW-37

ID: 47_1_5_119

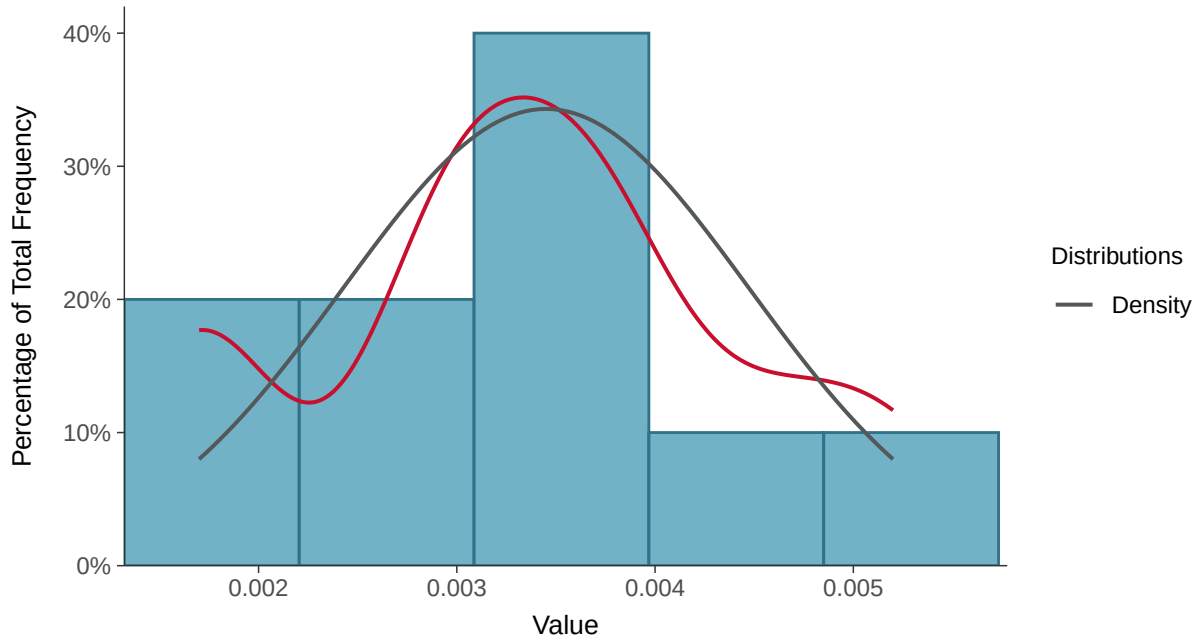
Scatter Plot

Nickel, MW-37 (mg/L)



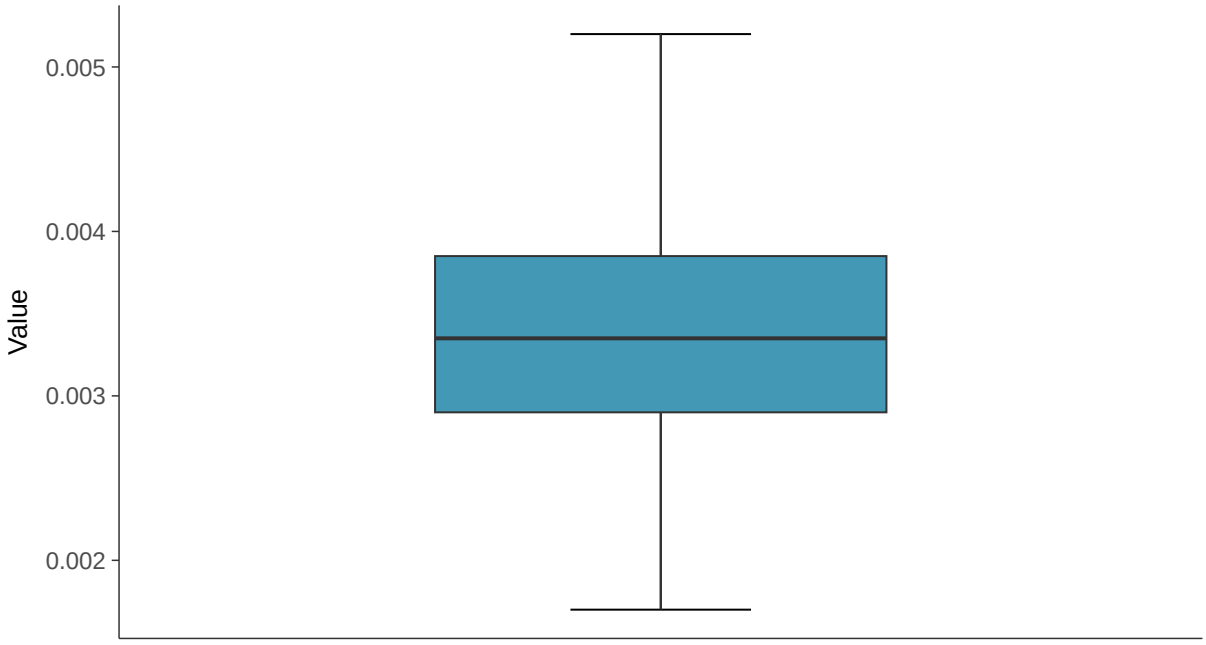
Histogram

Nickel, MW-37 (mg/L)



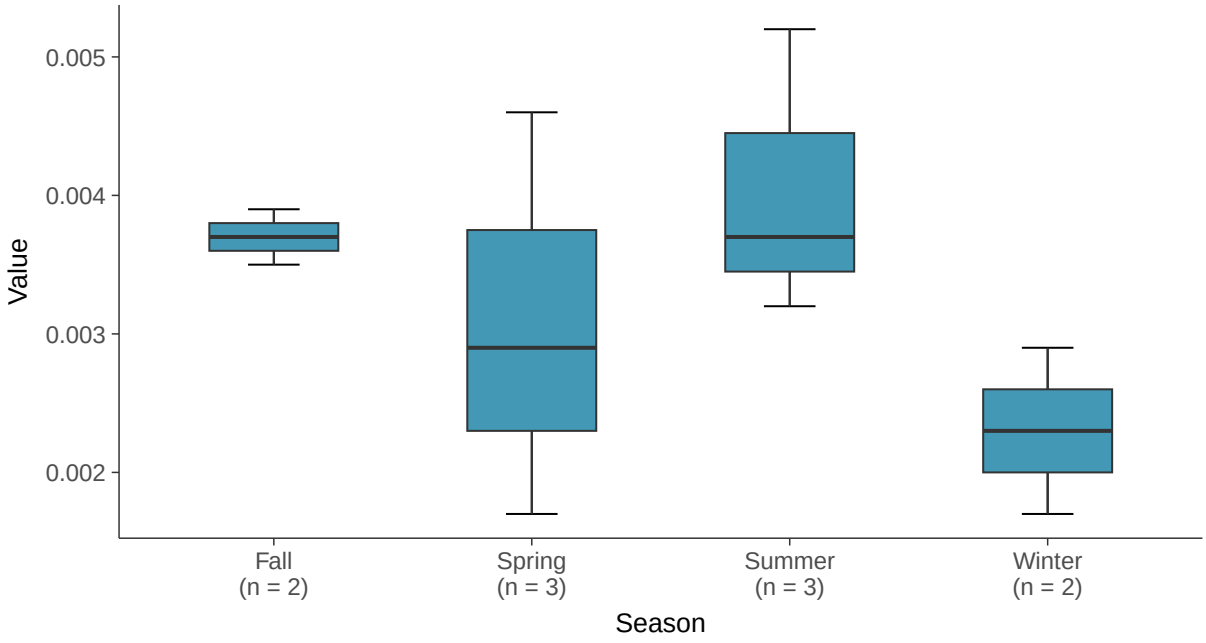
Boxplot

Nickel, MW-37 (mg/L)



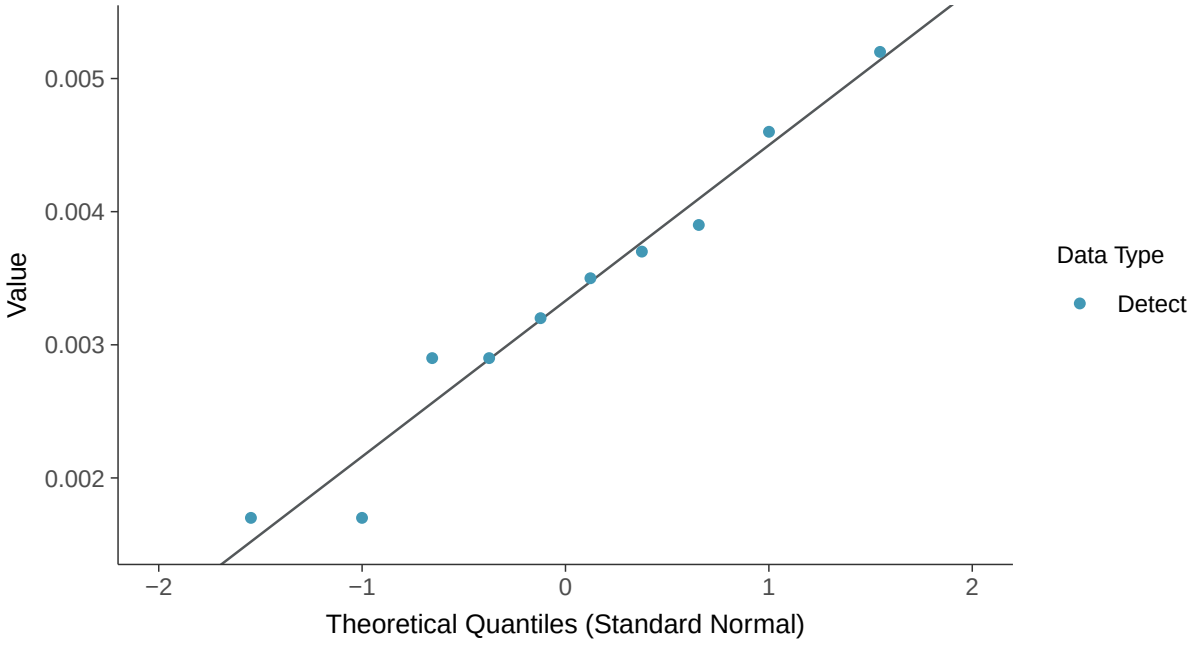
Boxplot by Season

Nickel, MW-37 (mg/L)



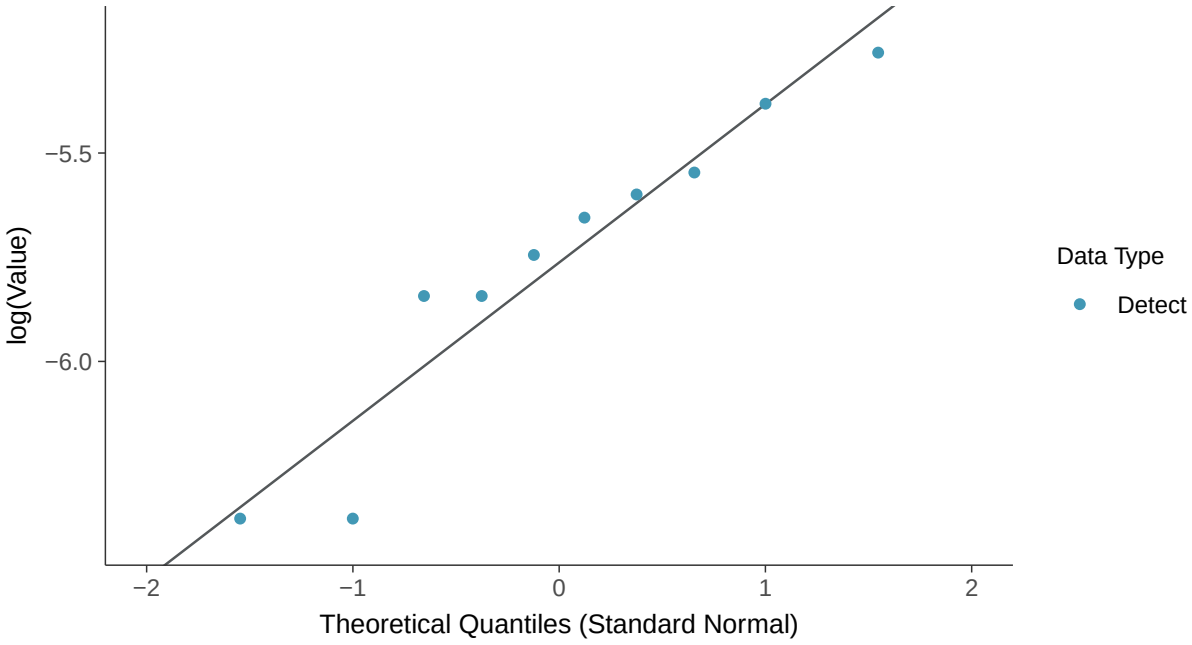
Normal Q-Q plot

Nickel, MW-37 (mg/L)



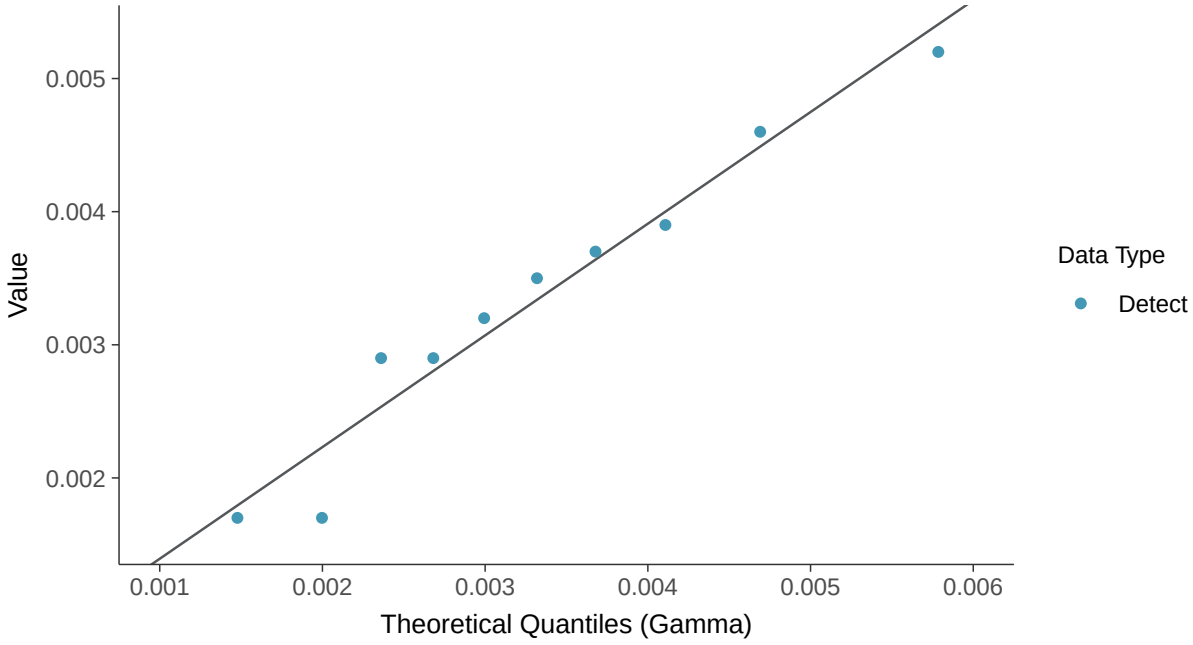
Lognormal Q-Q plot

Nickel, MW-37 (mg/L)



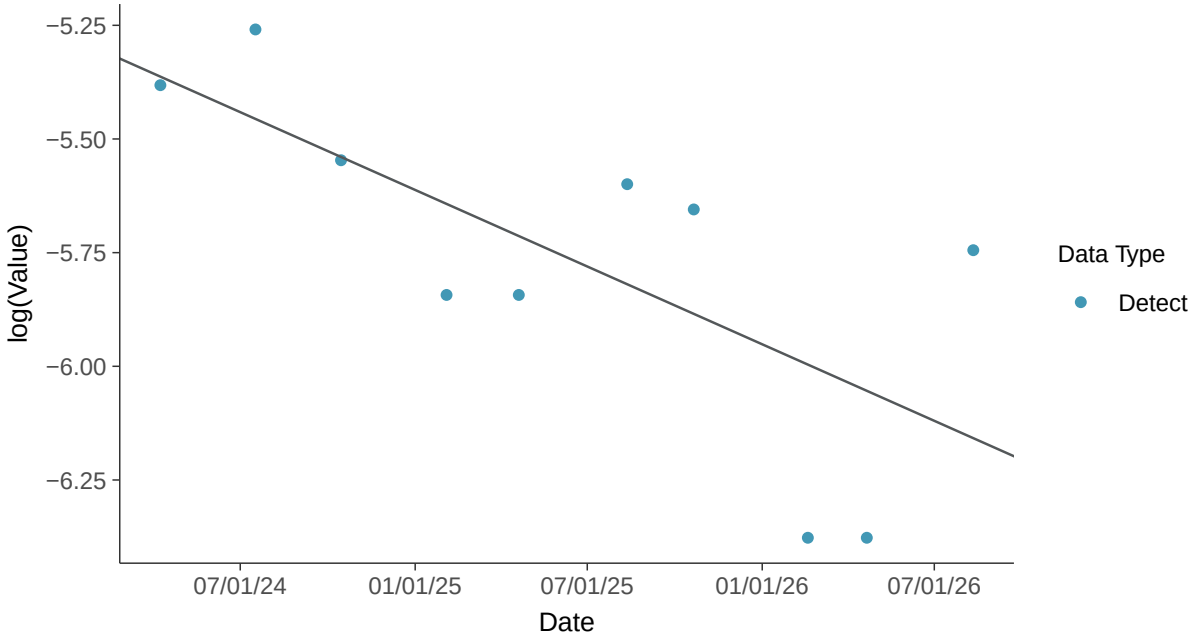
Gamma Q-Q plot

Nickel, MW-37 (mg/L)



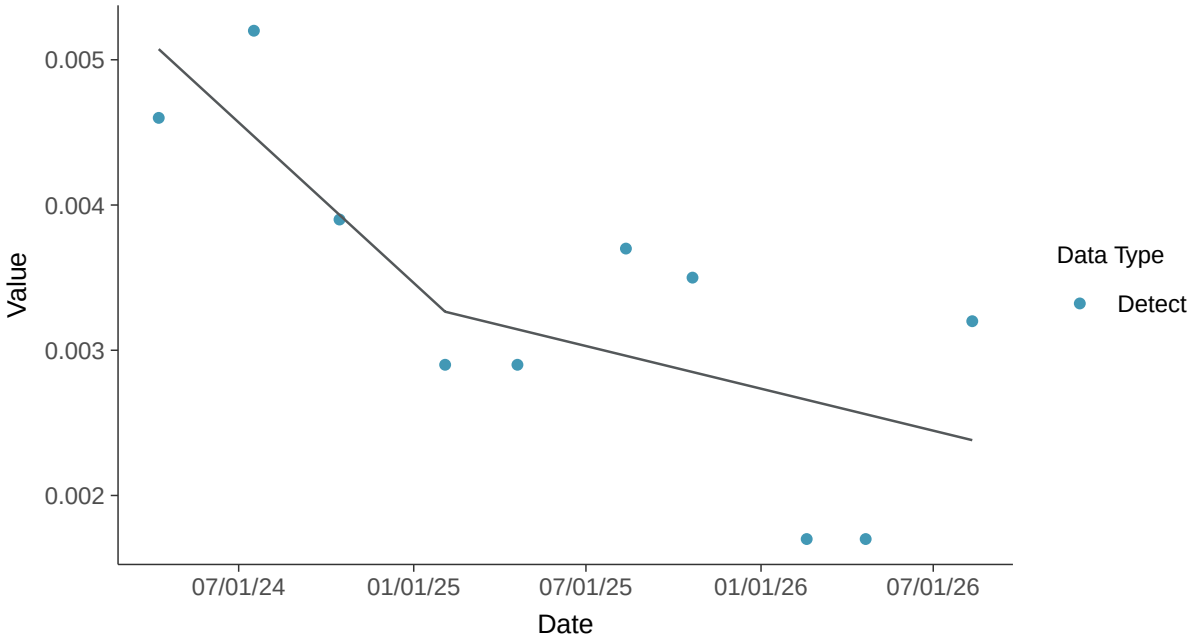
Trend Regression: Lognormal MLE

Nickel, MW-37 (mg/L)



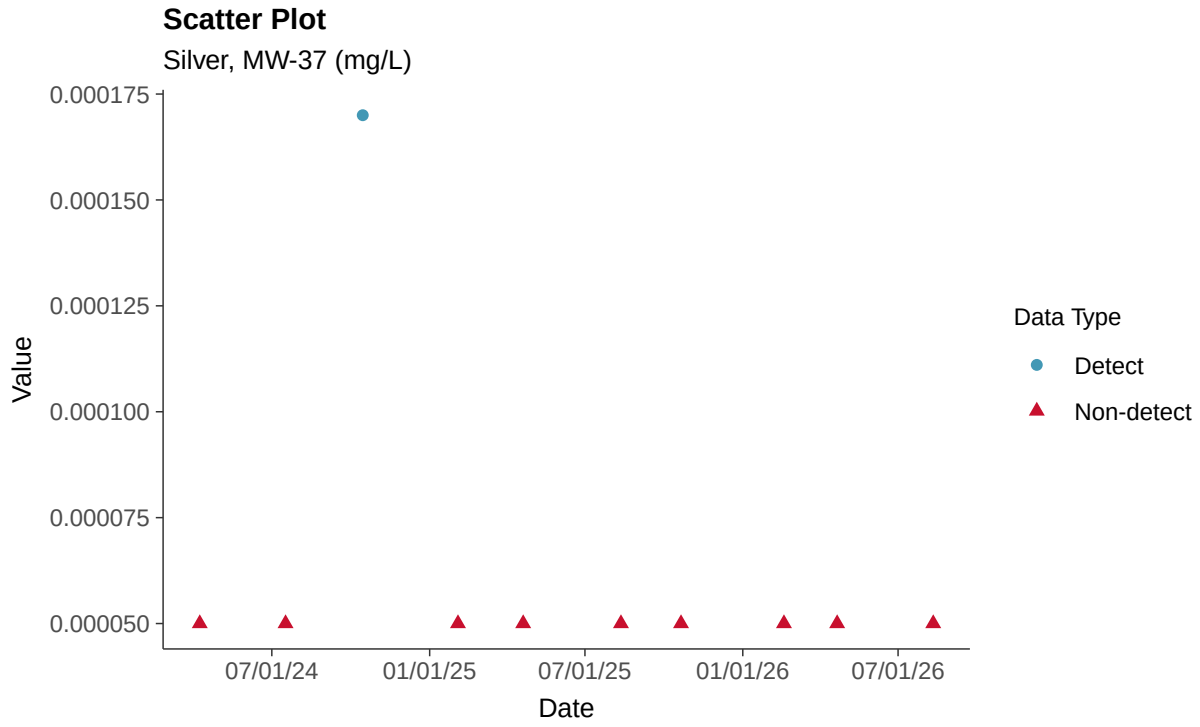
Trend Regression: Piecewise Linear-Linear

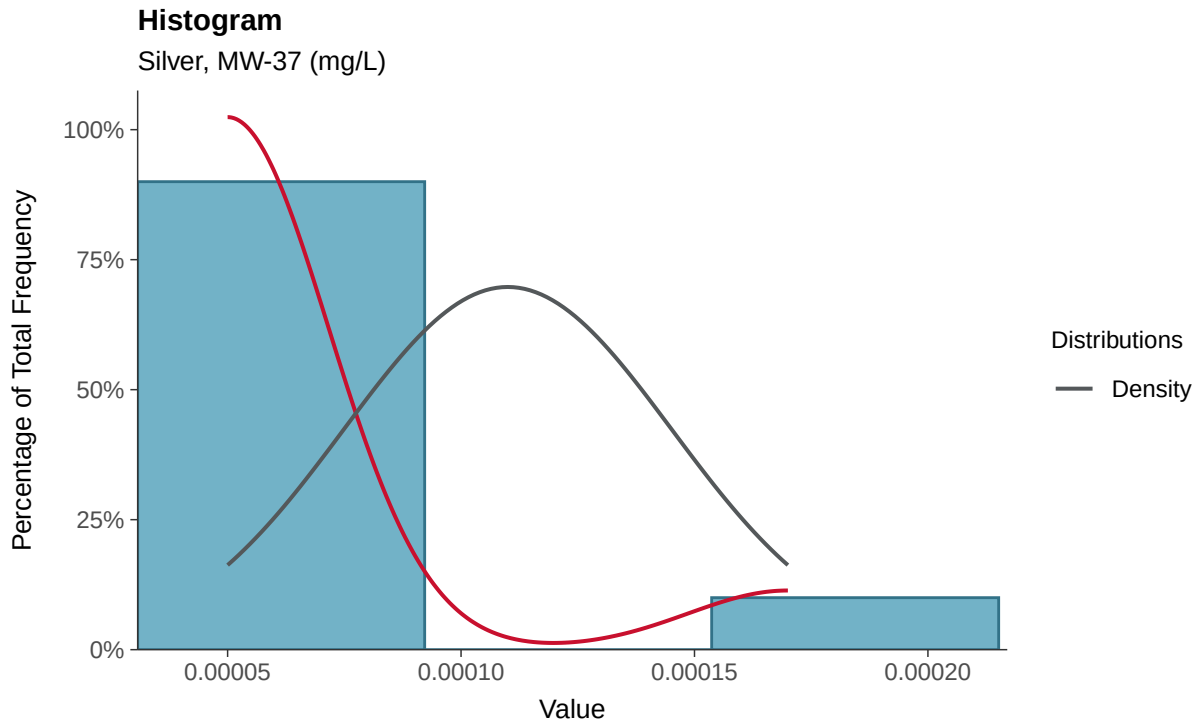
Nickel, MW-37 (mg/L)



Part 115: Silver, MW-37

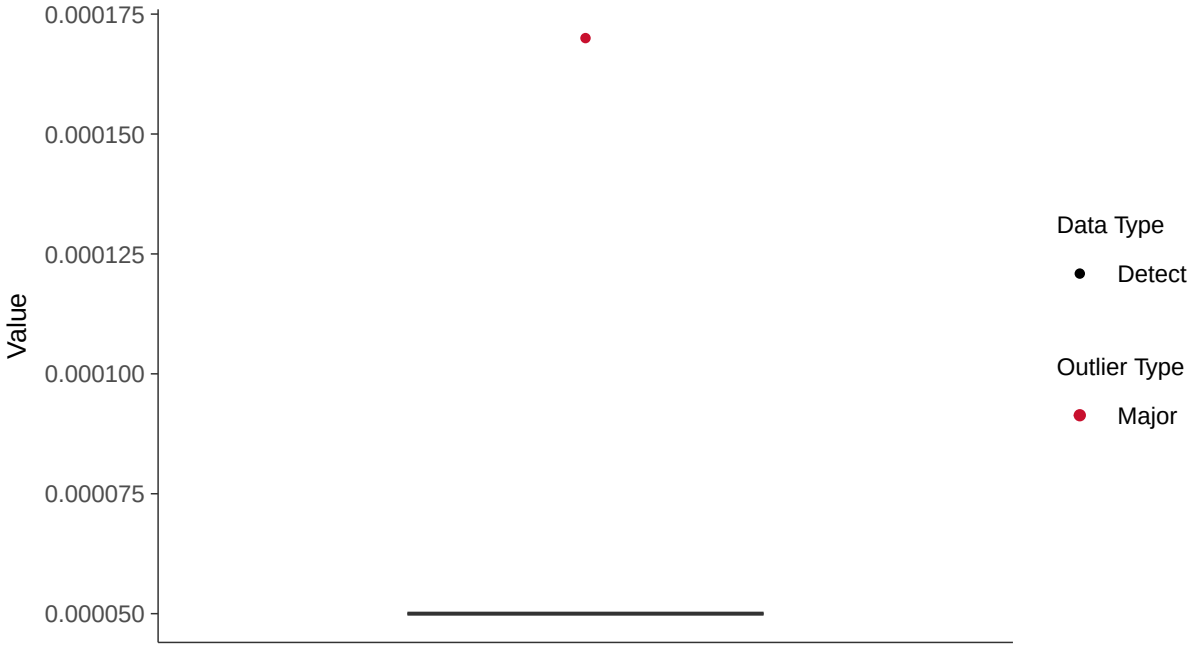
ID: 47_1_5_123





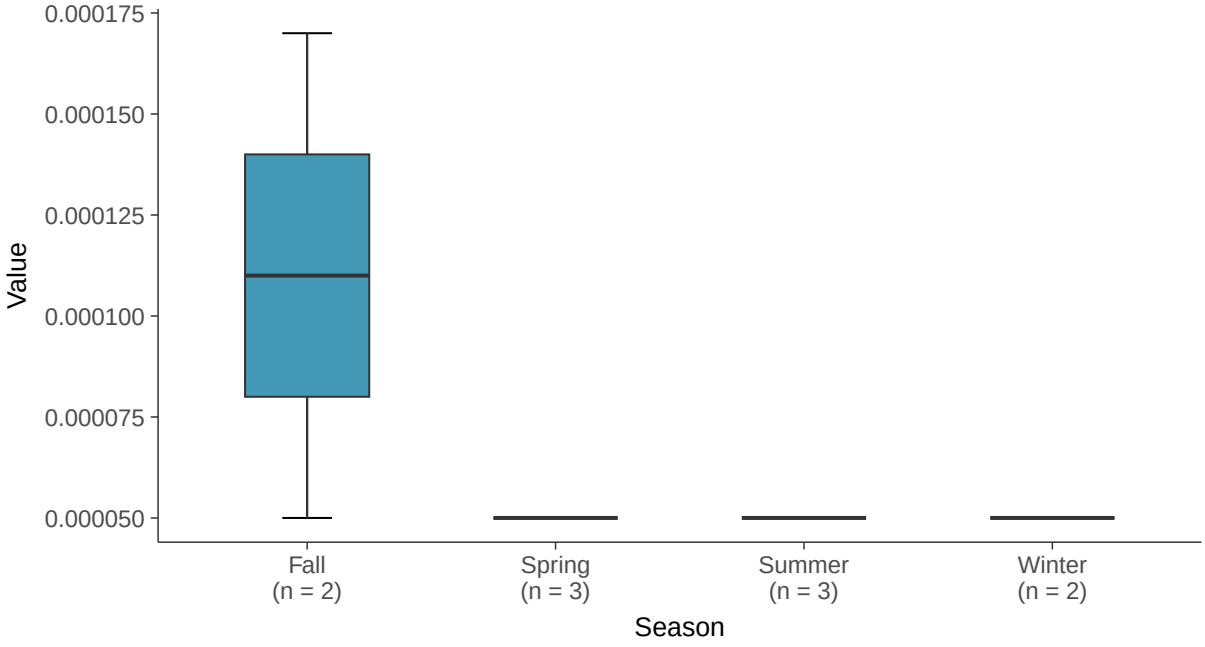
Boxplot

Silver, MW-37 (mg/L)



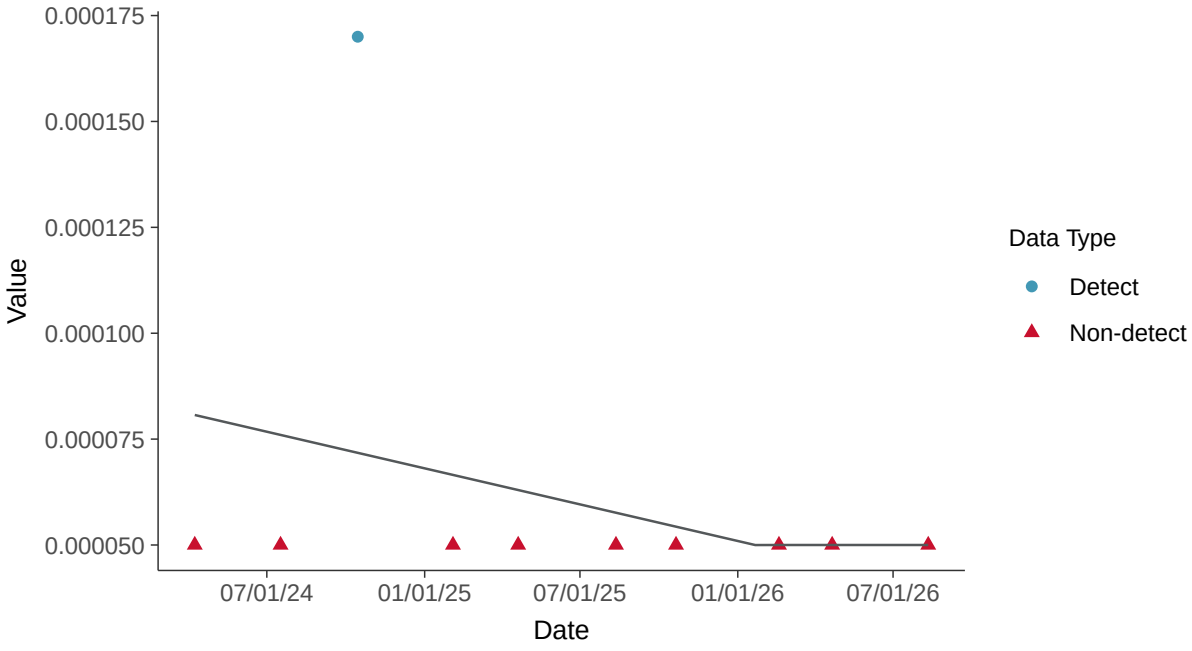
Boxplot by Season

Silver, MW-37 (mg/L)



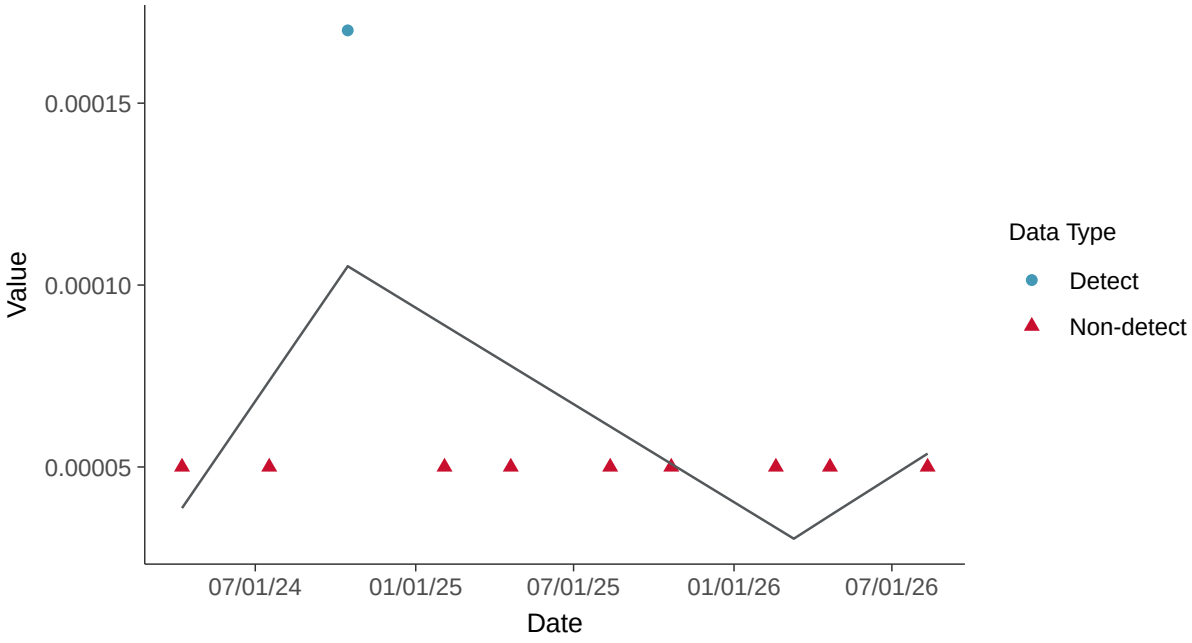
Trend Regression: Piecewise Linear-Linear

Silver, MW-37 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Silver, MW-37 (mg/L)

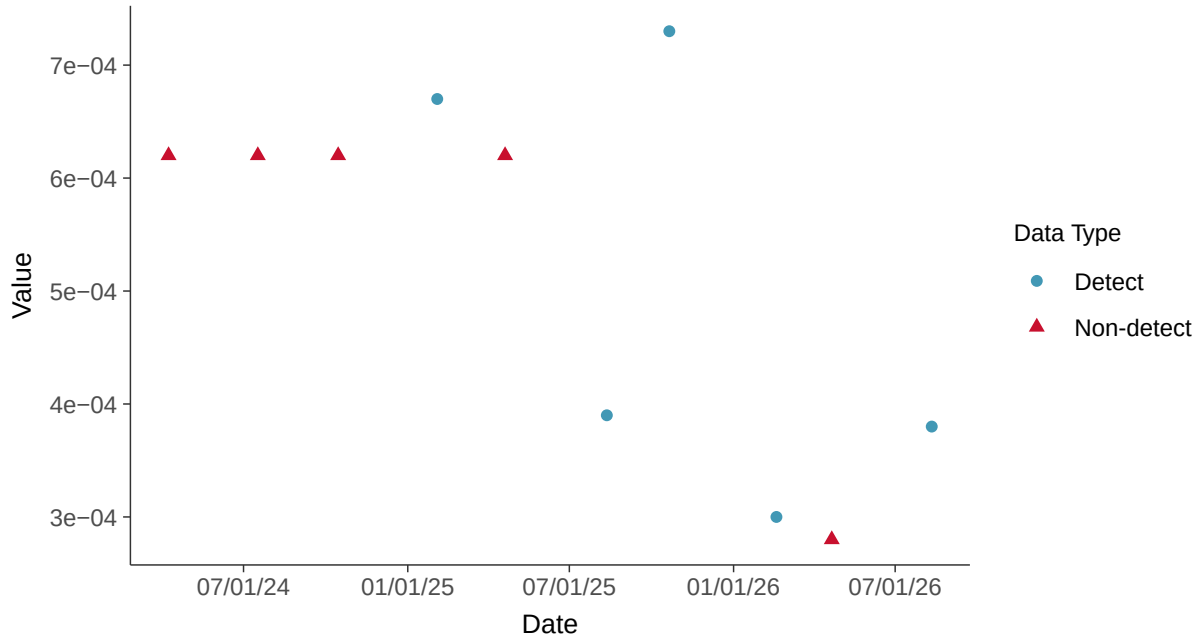


Part 115: Vanadium, MW-37

ID: 47_1_5_128

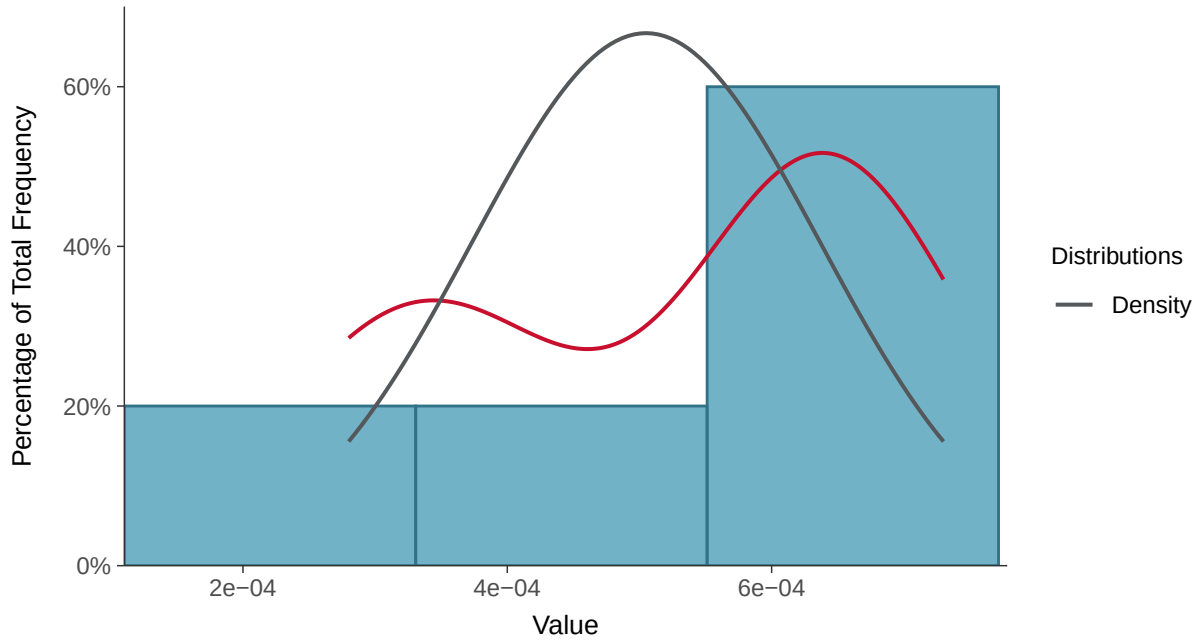
Scatter Plot

Vanadium, MW-37 (mg/L)



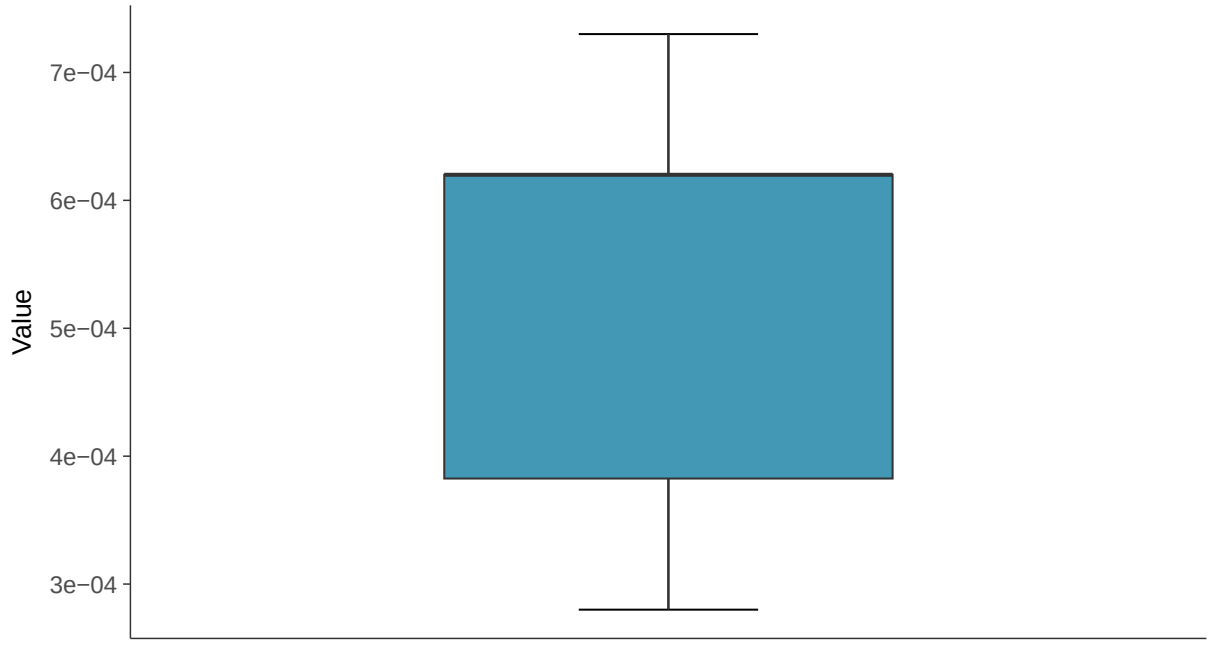
Histogram

Vanadium, MW-37 (mg/L)



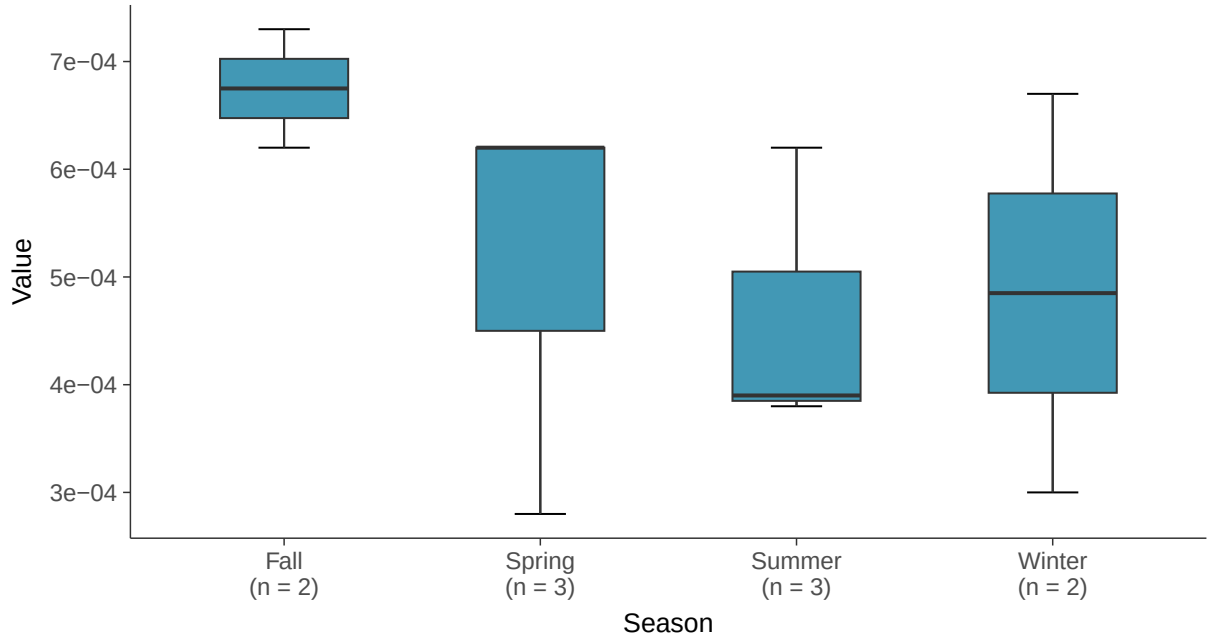
Boxplot

Vanadium, MW-37 (mg/L)



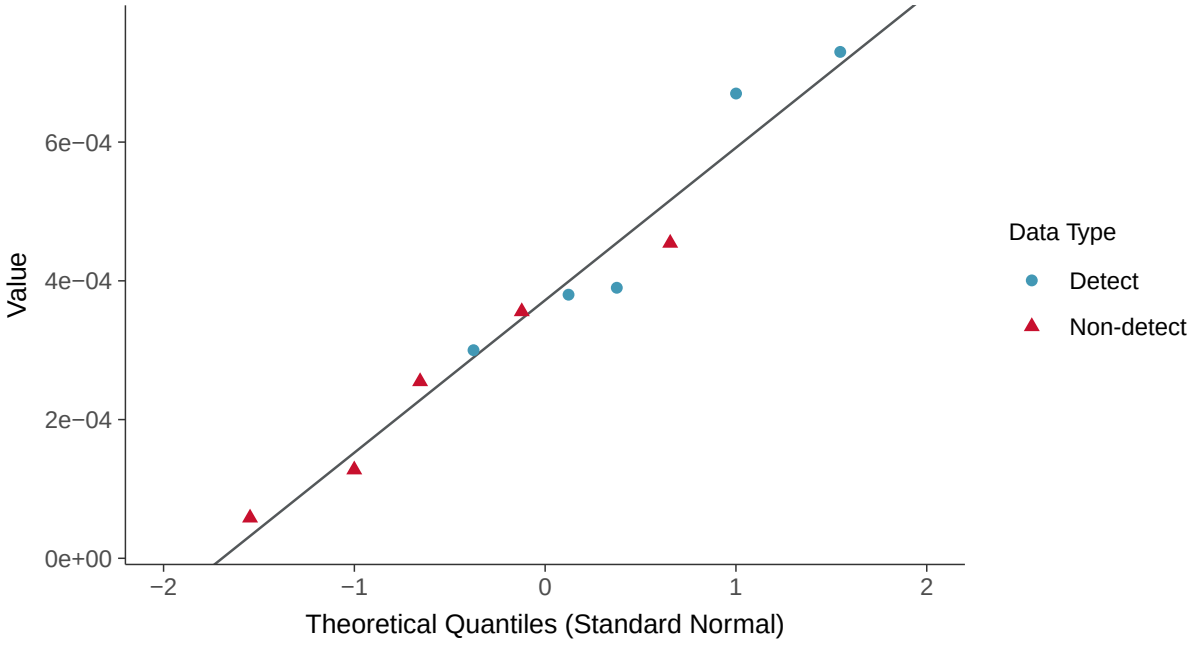
Boxplot by Season

Vanadium, MW-37 (mg/L)



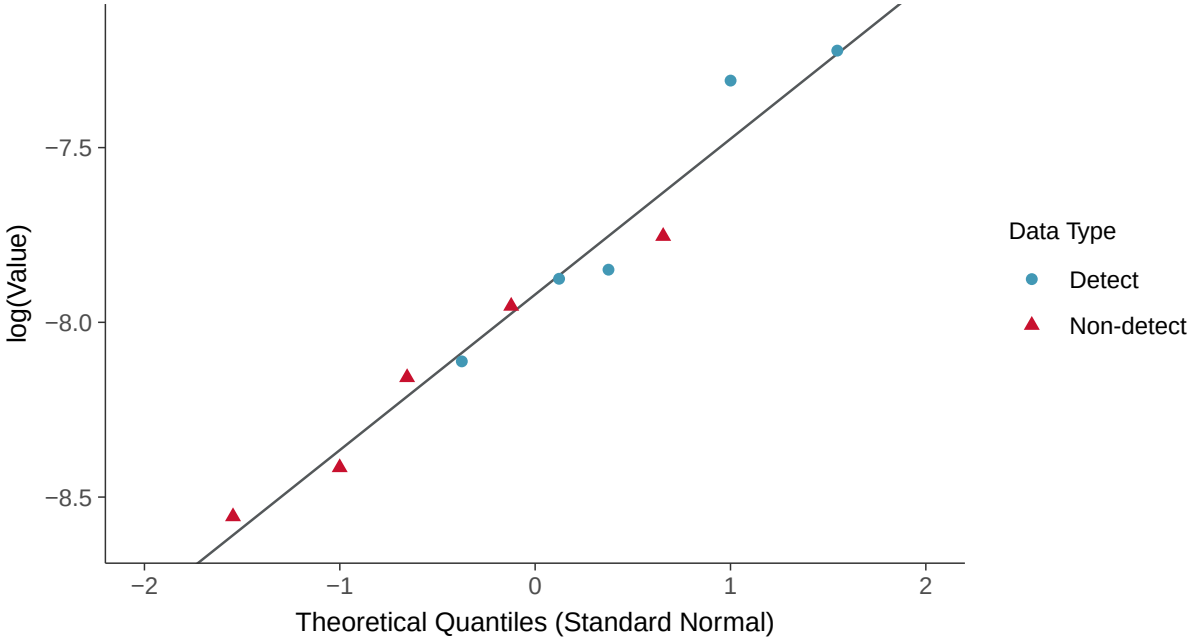
Normal Q-Q plot using ROS Imputed Estimates

Vanadium, MW-37 (mg/L)



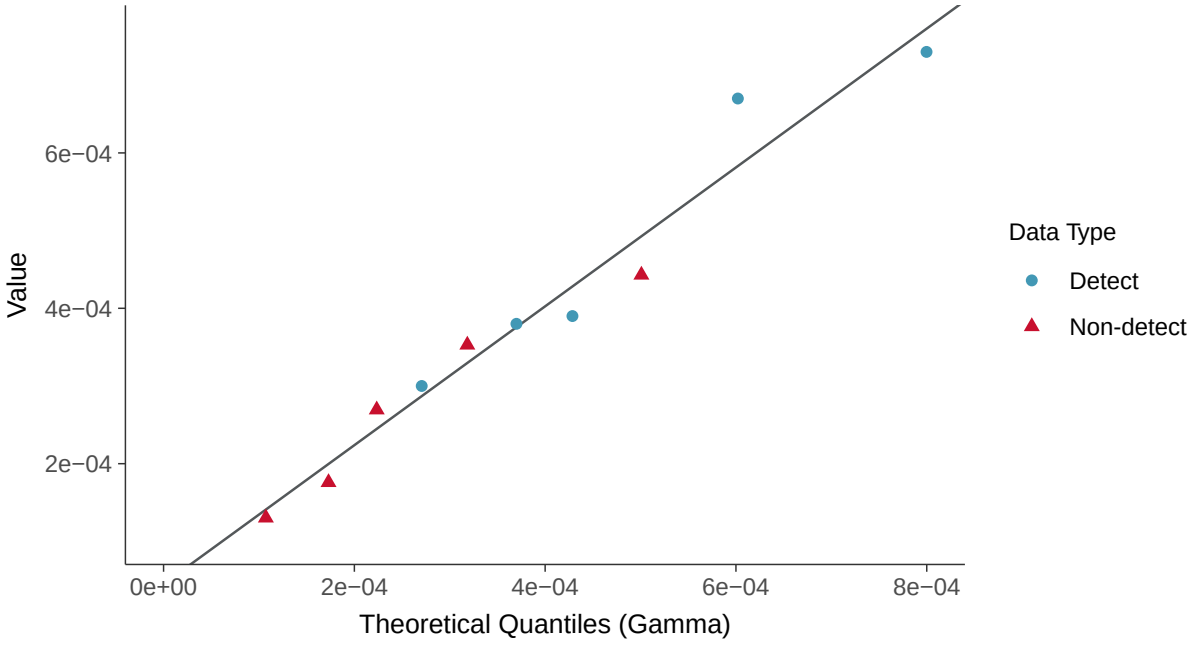
Lognormal Q-Q plot using ROS Imputed Estimates

Vanadium, MW-37 (mg/L)



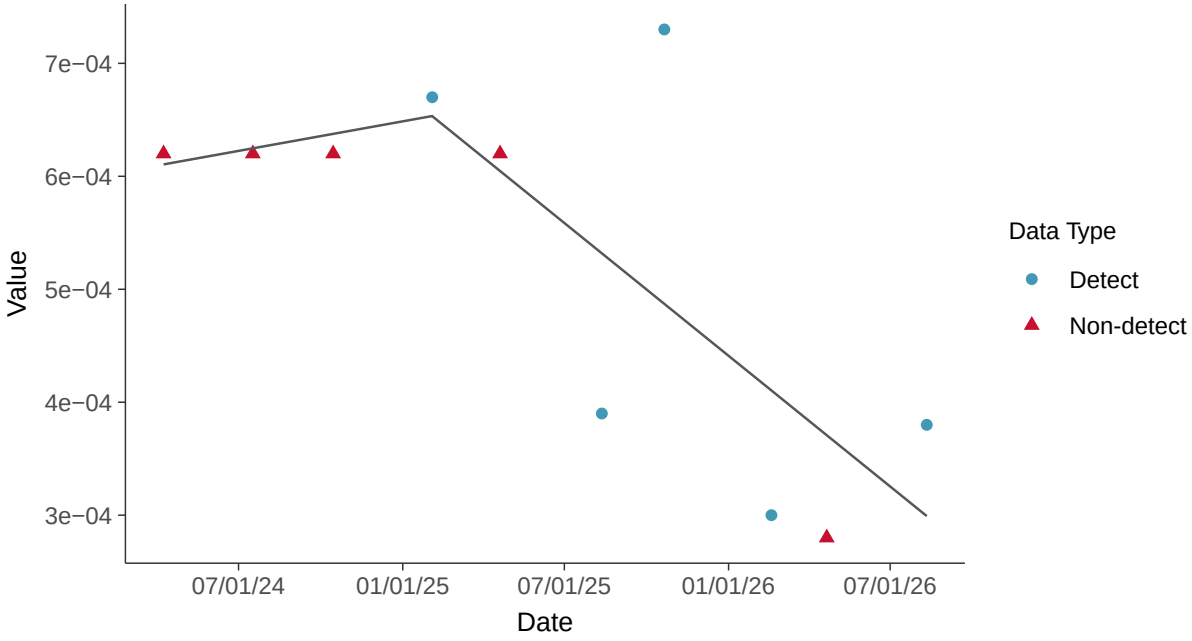
Gamma Q-Q plot using ROS Imputed Estimates

Vanadium, MW-37 (mg/L)



Trend Regression: Piecewise Linear-Linear

Vanadium, MW-37 (mg/L)

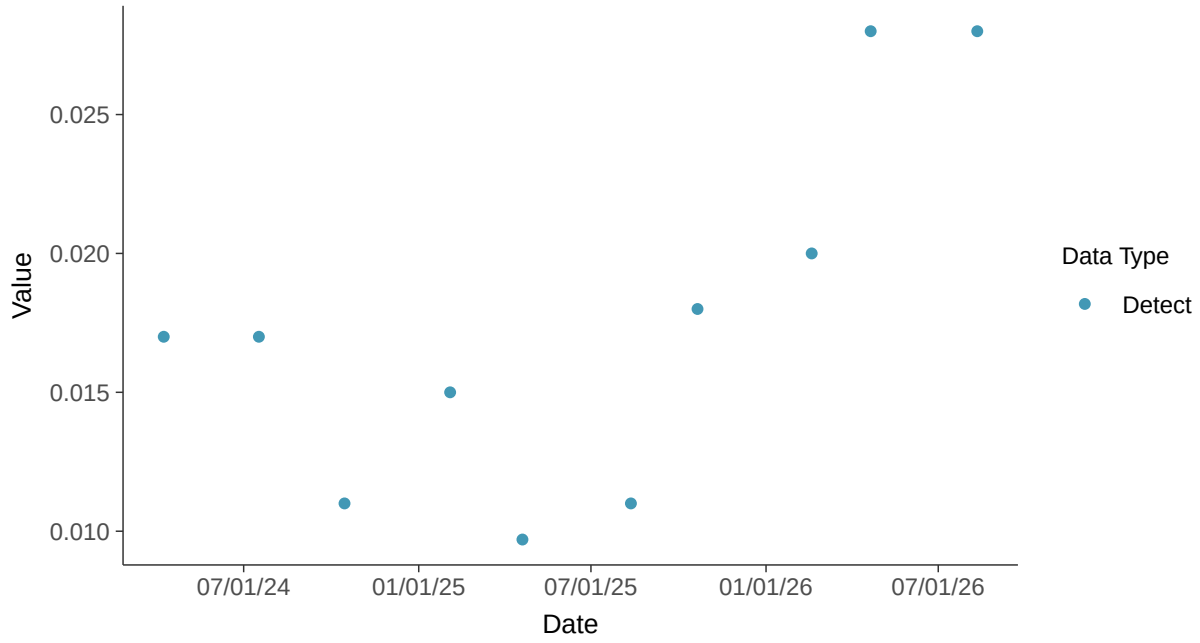


Part 115: Zinc, MW-37

ID: 47_1_5_129

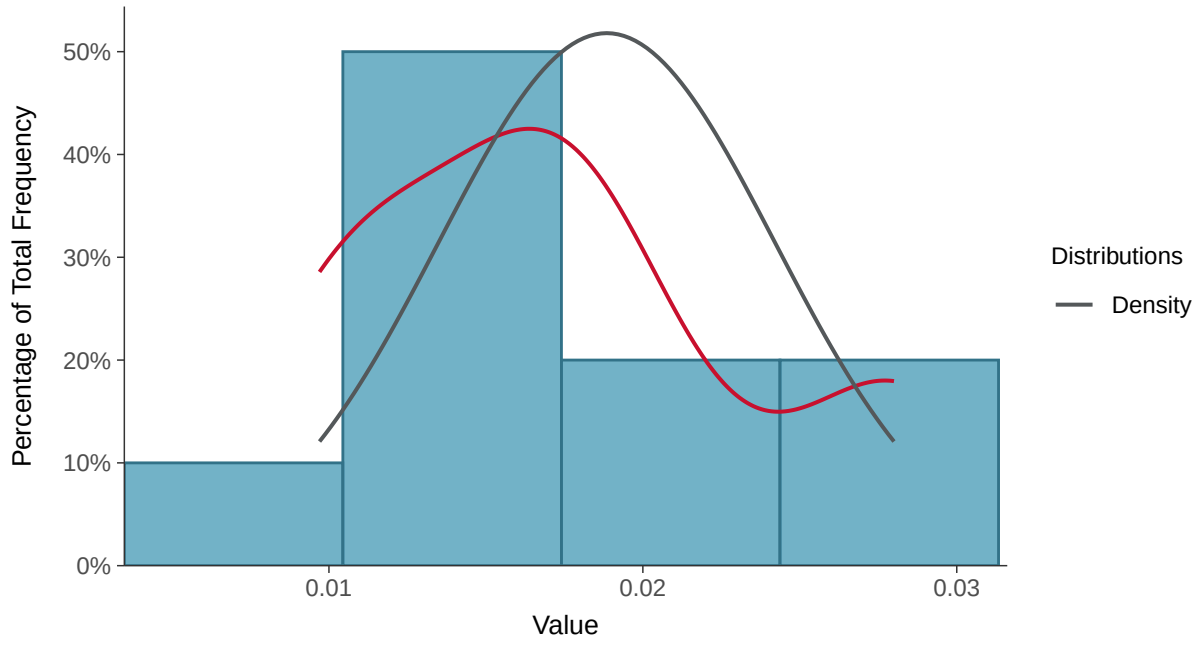
Scatter Plot

Zinc, MW-37 (mg/L)



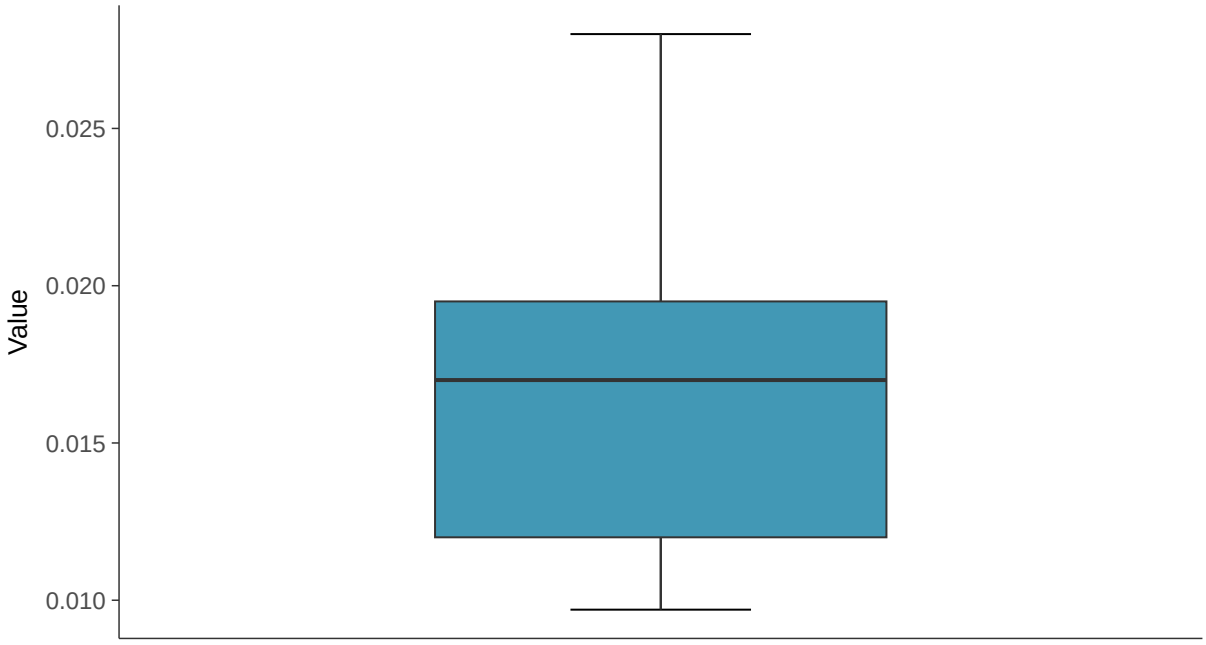
Histogram

Zinc, MW-37 (mg/L)



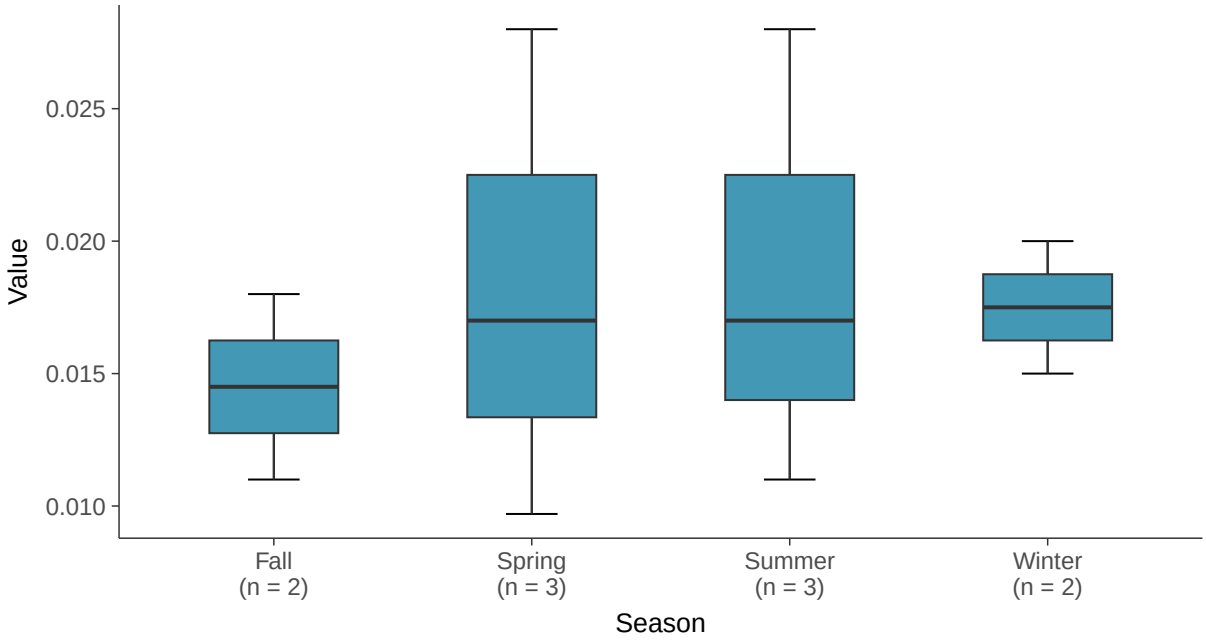
Boxplot

Zinc, MW-37 (mg/L)



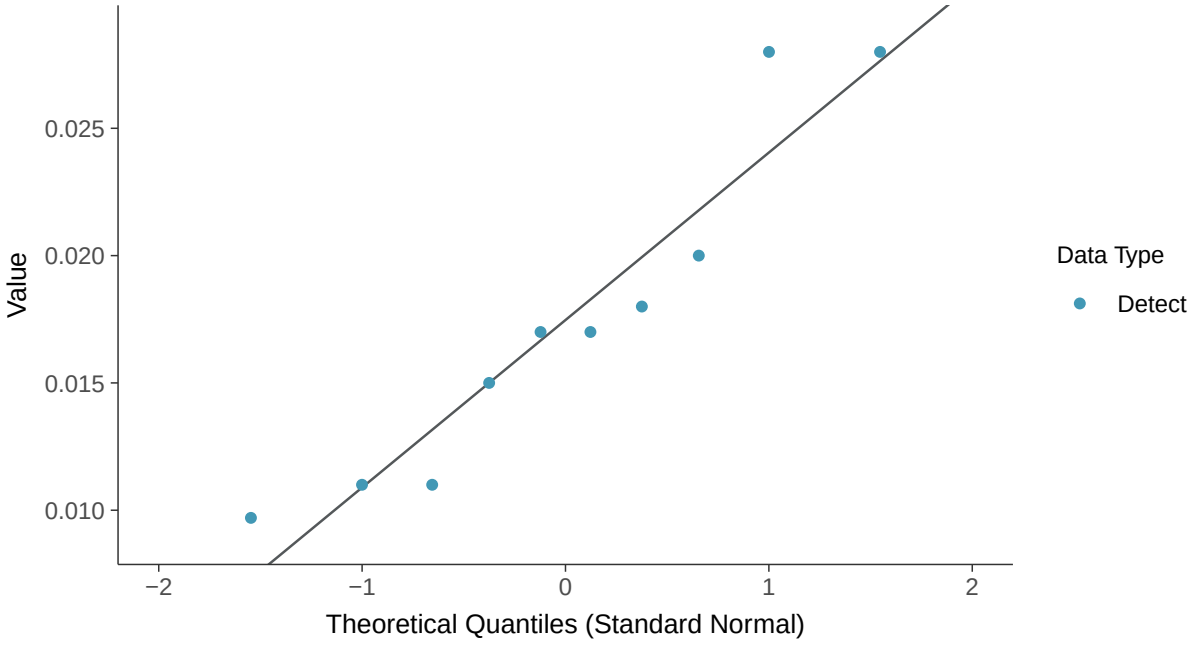
Boxplot by Season

Zinc, MW-37 (mg/L)



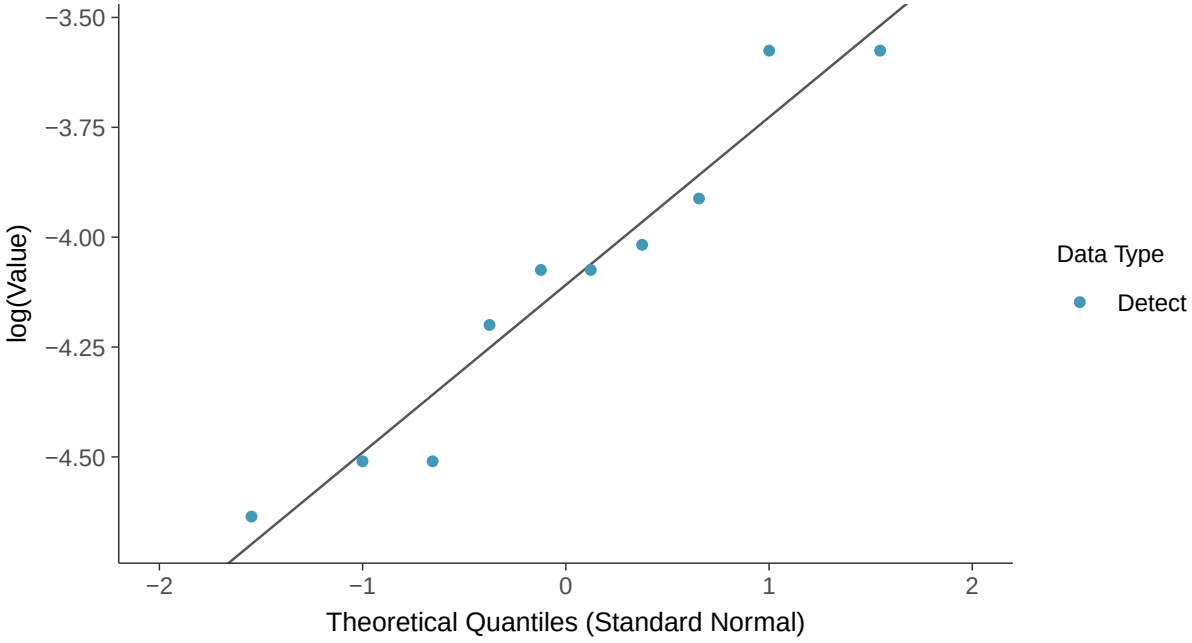
Normal Q-Q plot

Zinc, MW-37 (mg/L)



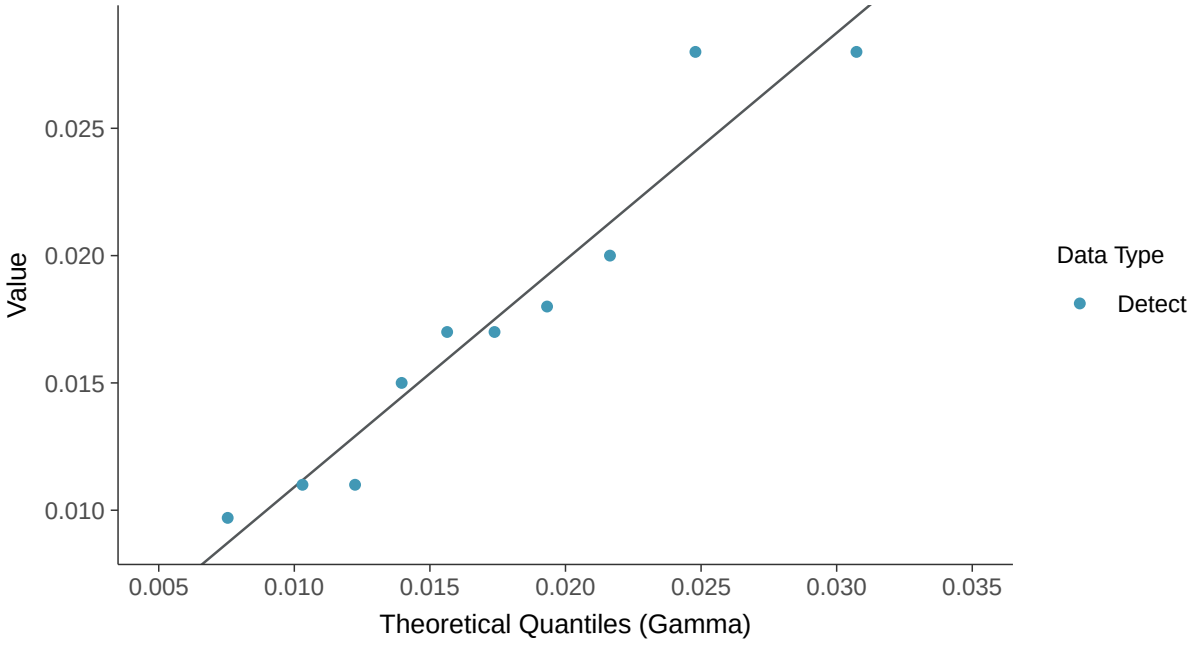
Lognormal Q-Q plot

Zinc, MW-37 (mg/L)



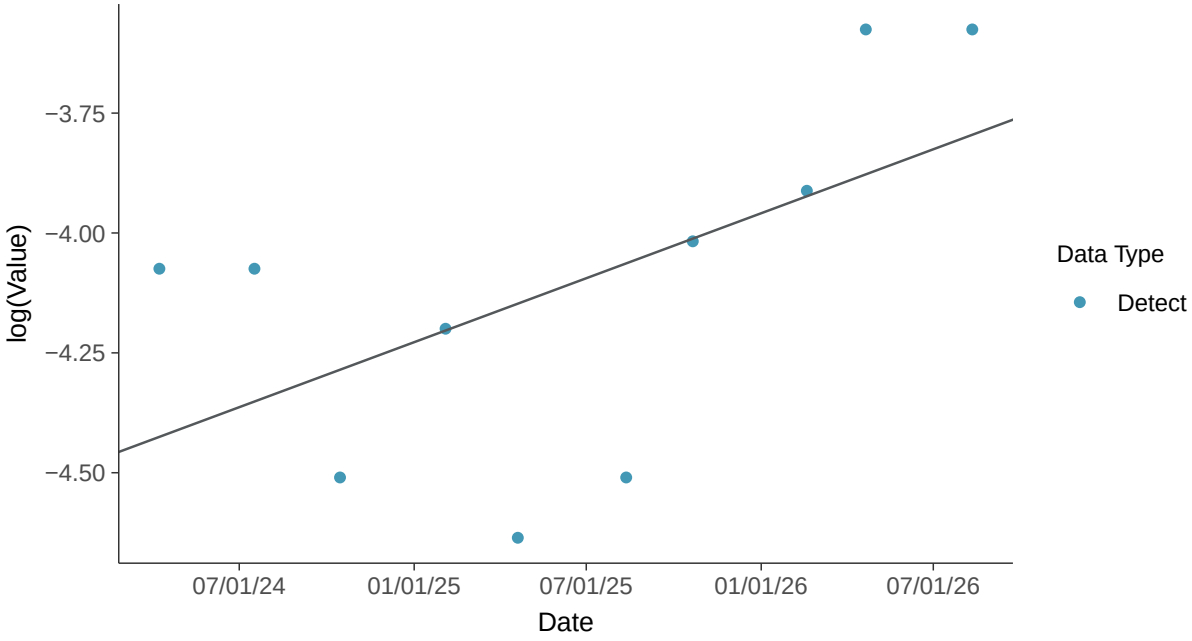
Gamma Q-Q plot

Zinc, MW-37 (mg/L)



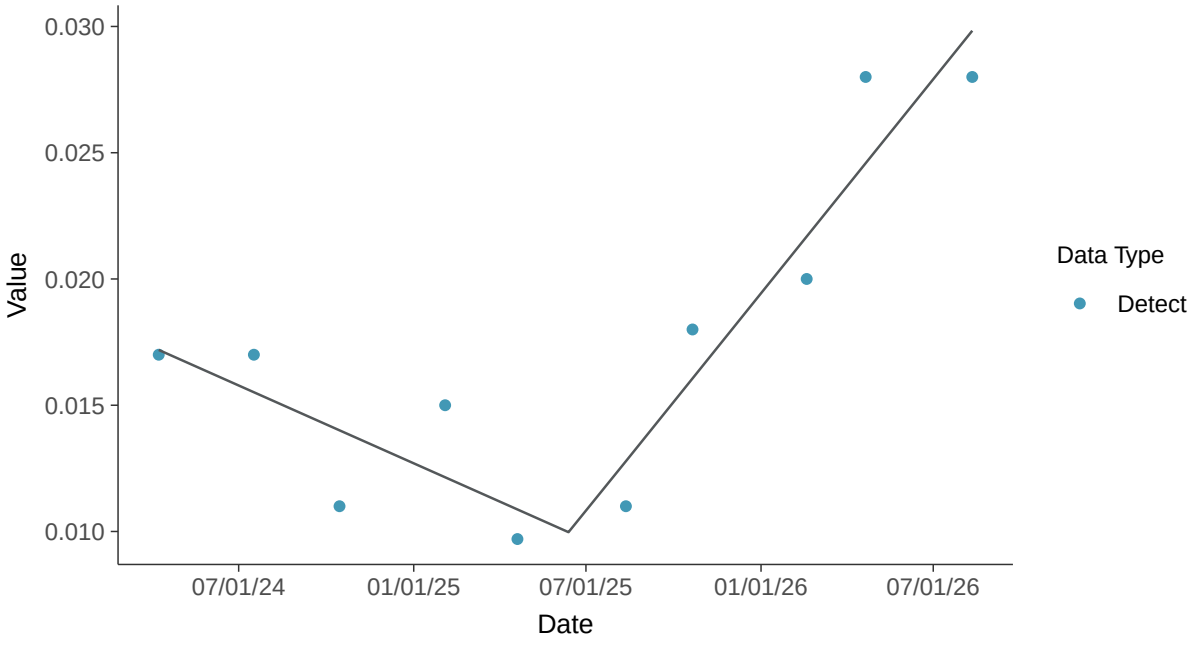
Trend Regression: Lognormal MLE

Zinc, MW-37 (mg/L)



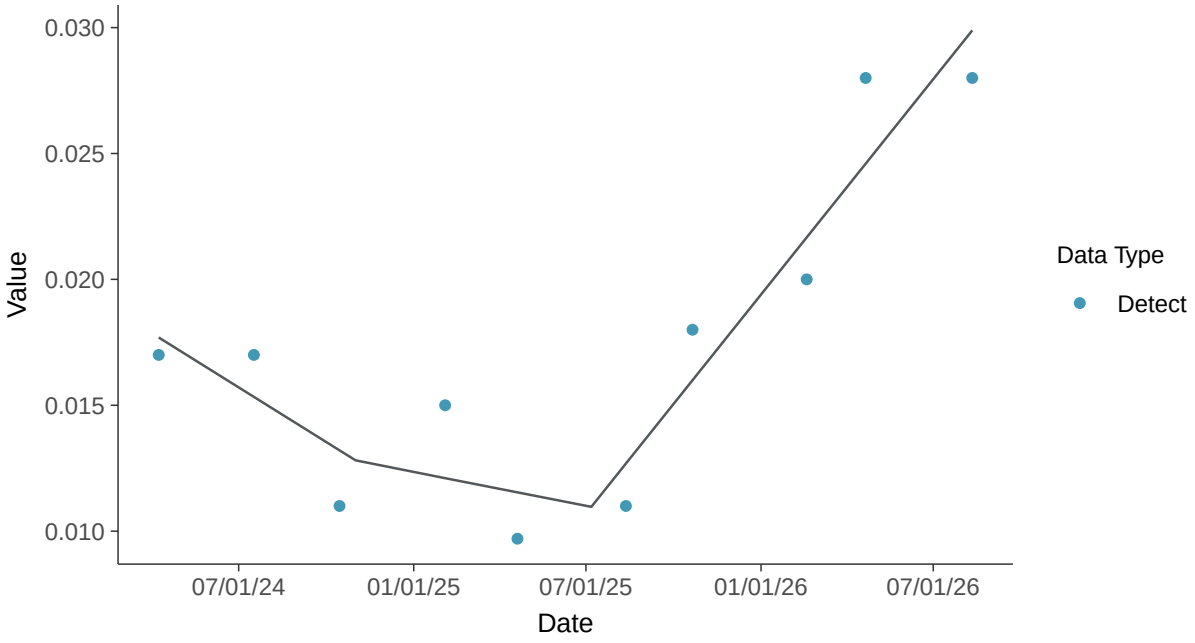
Trend Regression: Piecewise Linear-Linear

Zinc, MW-37 (mg/L)



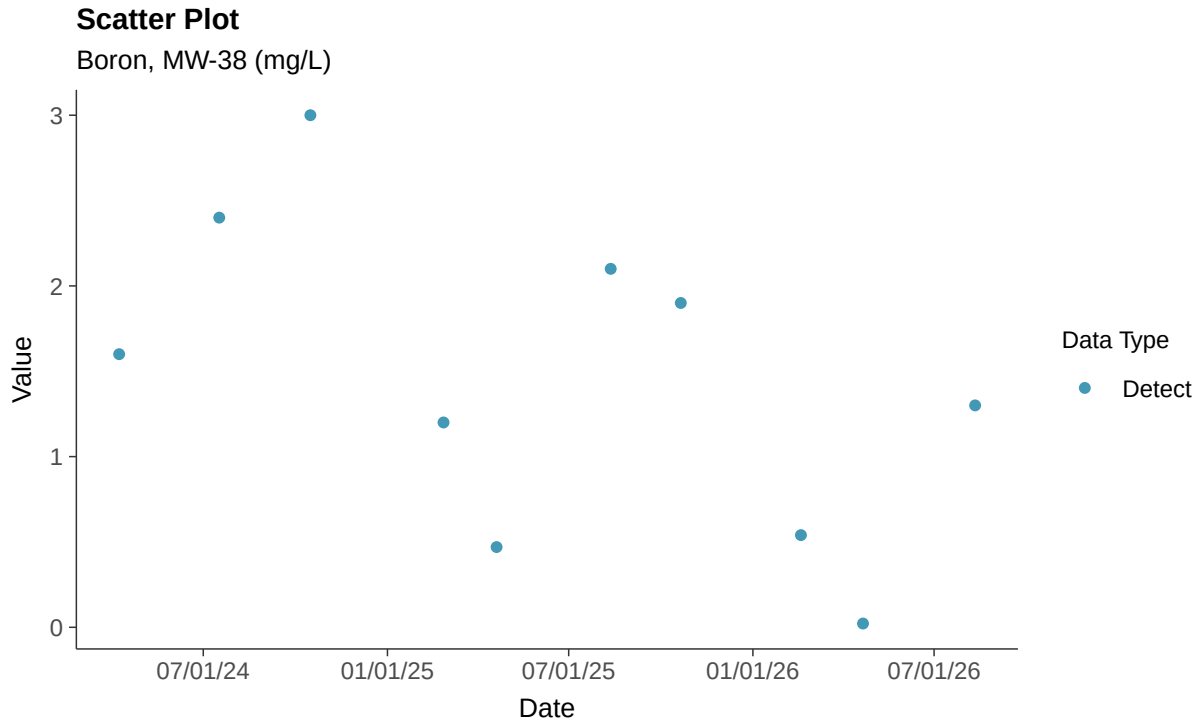
Trend Regression: Piecewise Linear-Linear-Linear

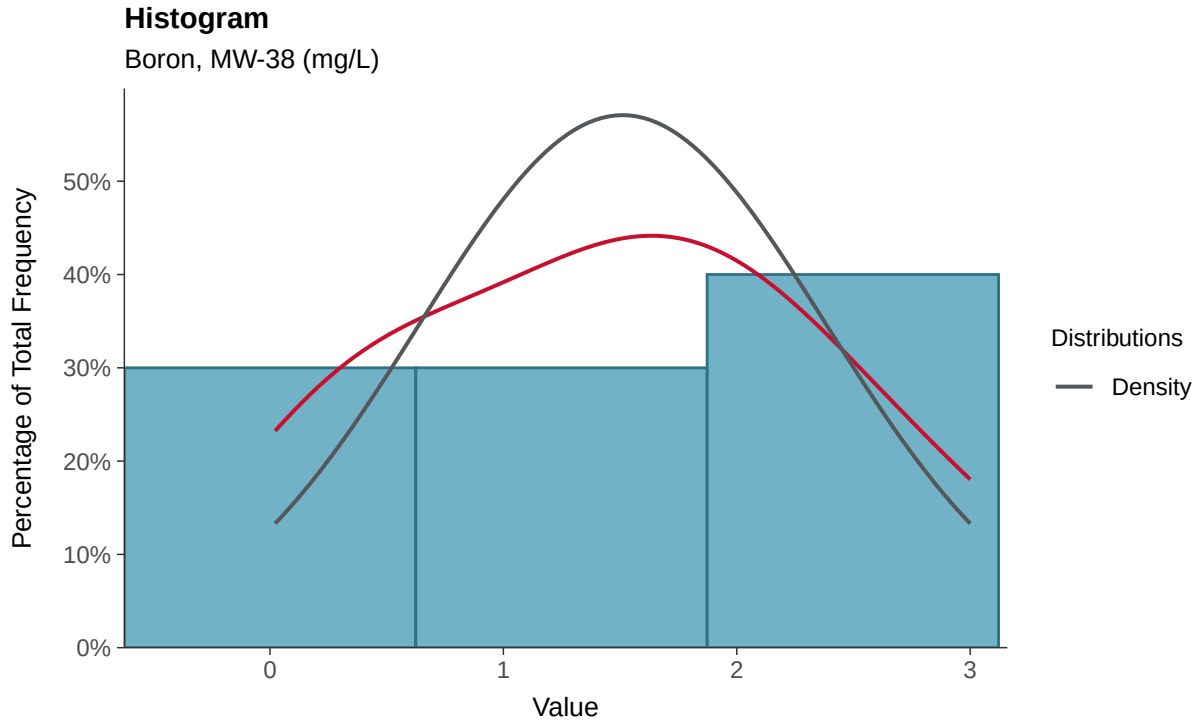
Zinc, MW-37 (mg/L)



Appendix III: Boron, MW-38

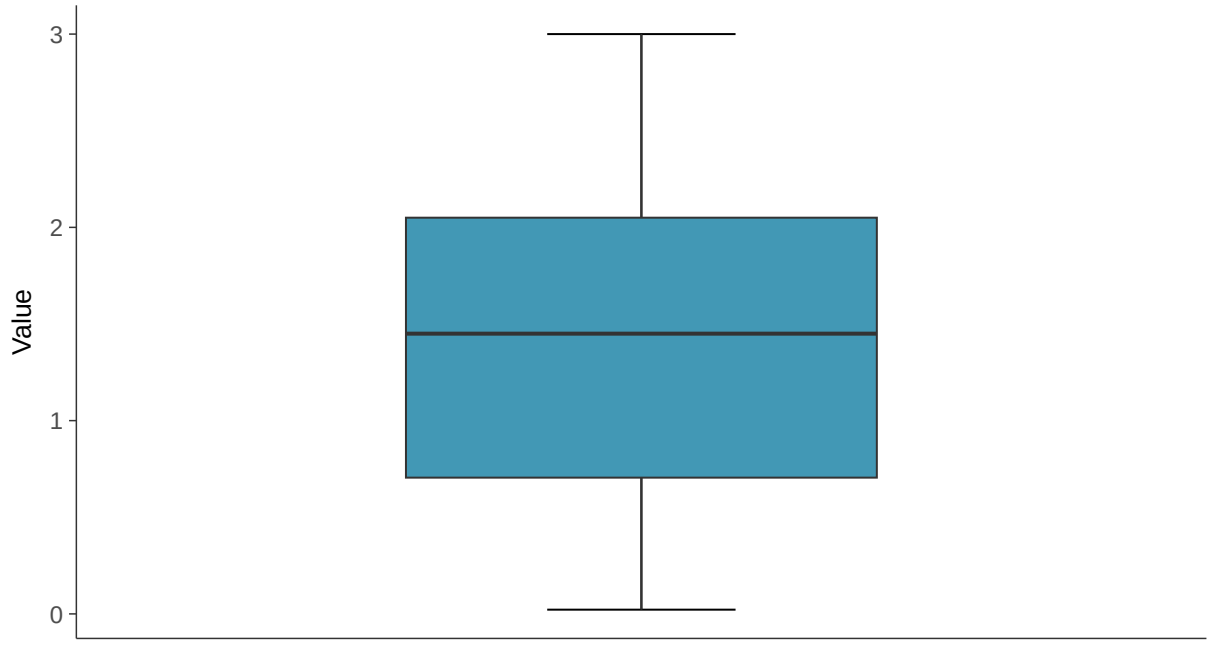
ID: 48_2_3_105





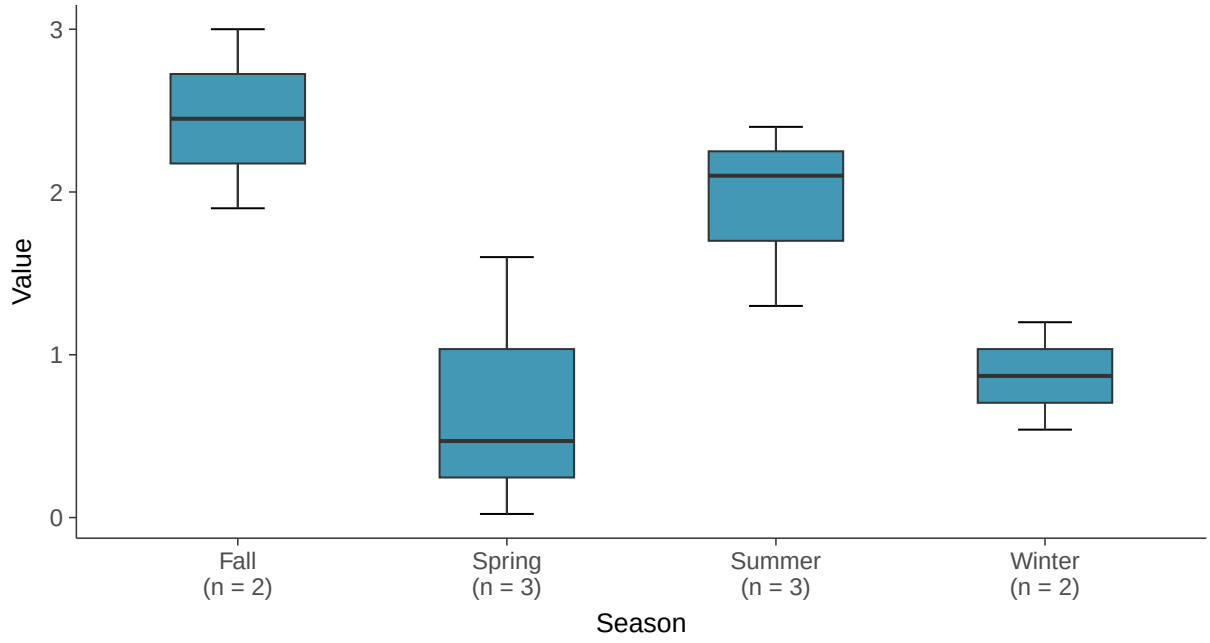
Boxplot

Boron, MW-38 (mg/L)



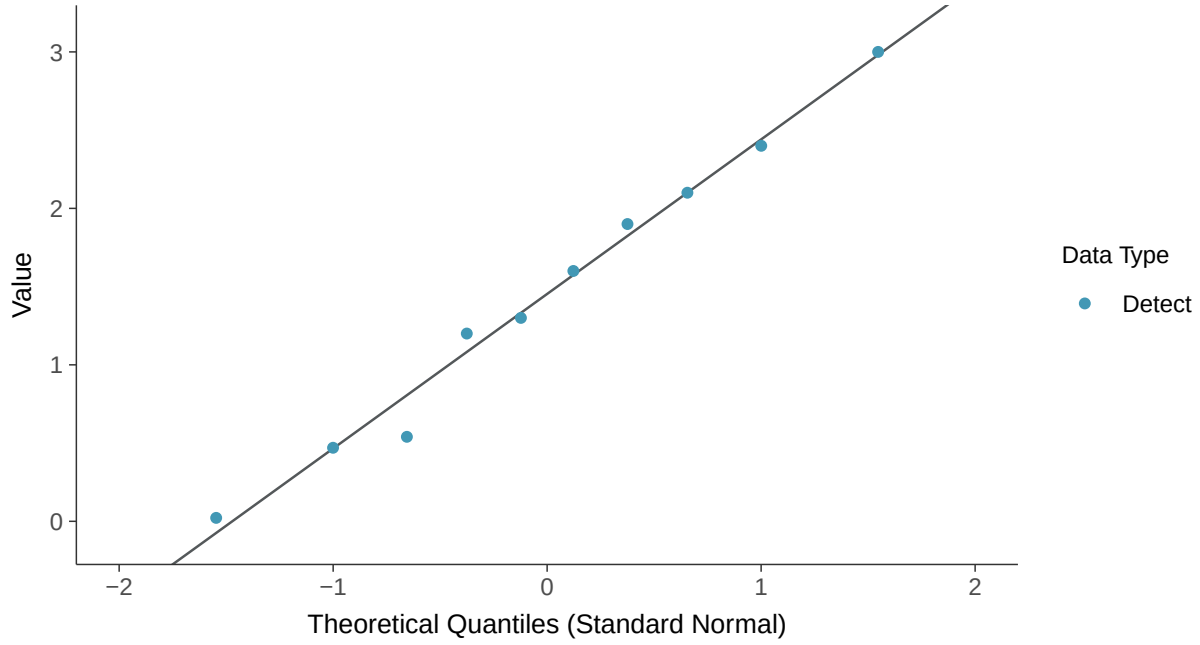
Boxplot by Season

Boron, MW-38 (mg/L)



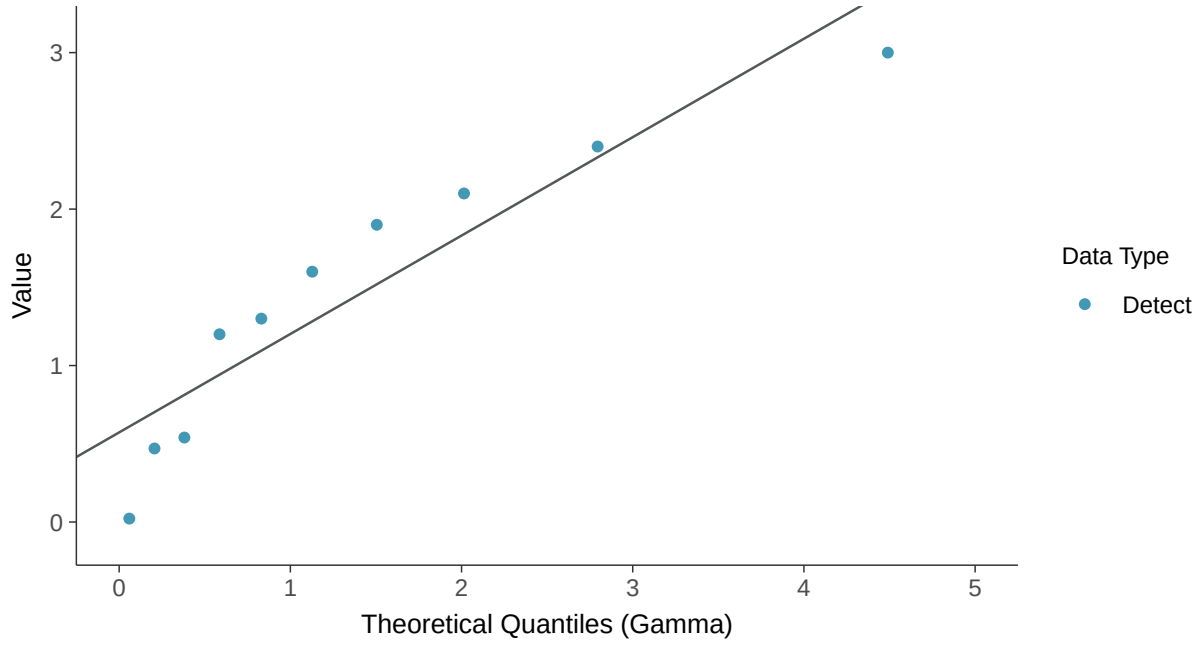
Normal Q-Q plot

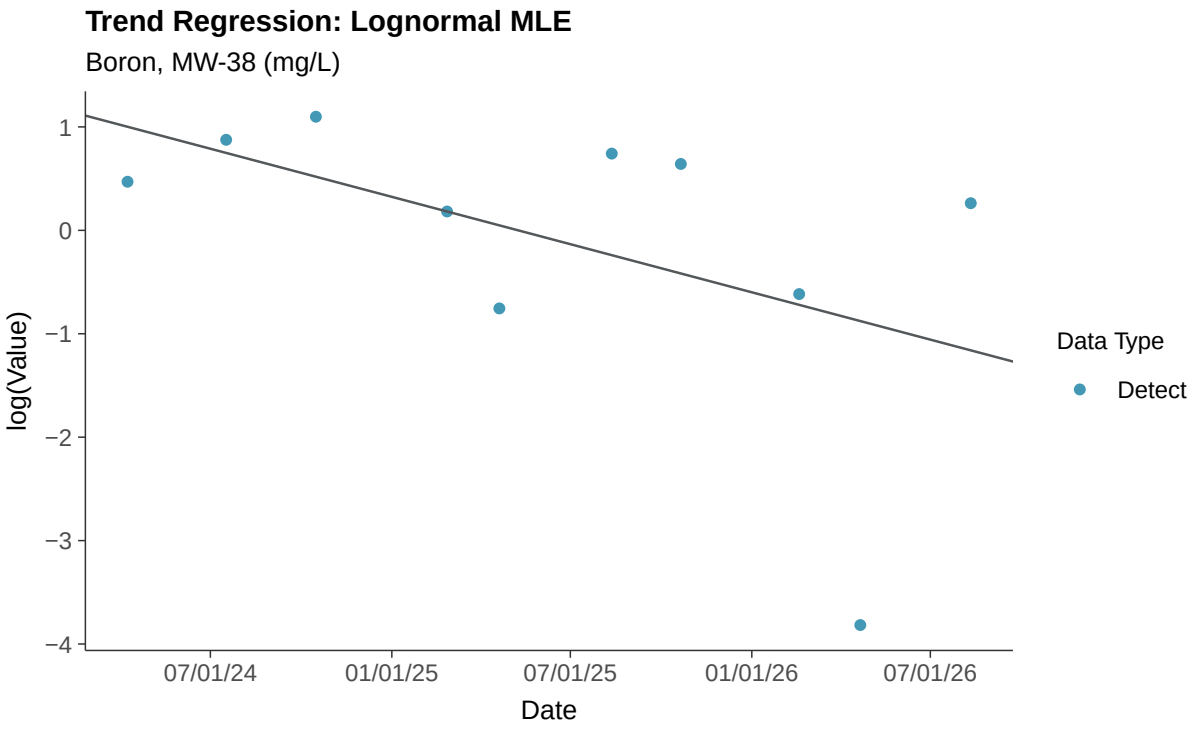
Boron, MW-38 (mg/L)



Gamma Q-Q plot

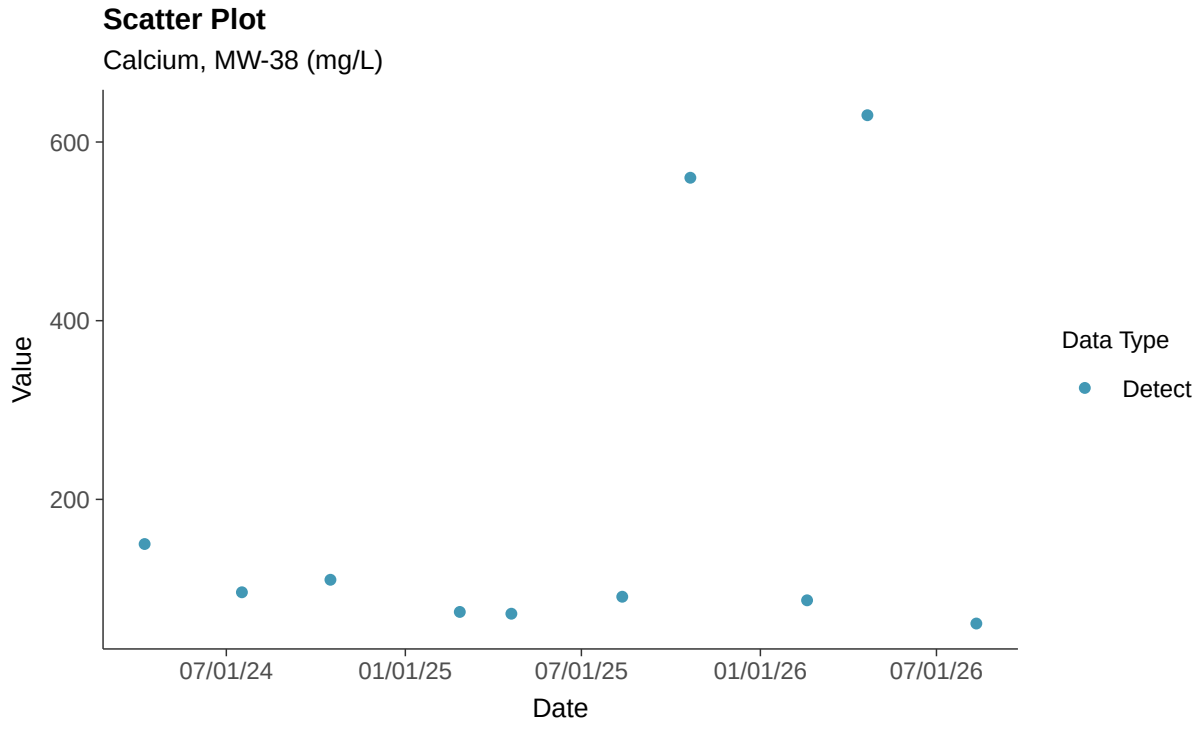
Boron, MW-38 (mg/L)

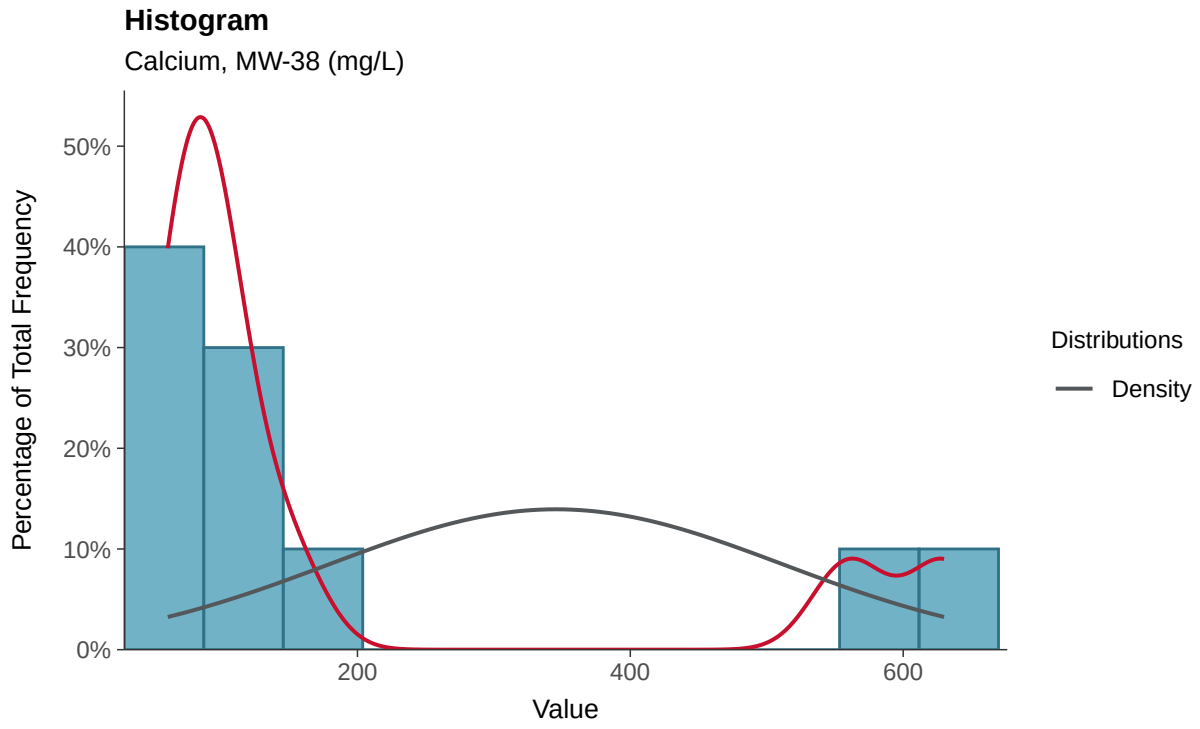



Trend Regression: Lognormal MLE
Boron, MW-38 (mg/L)
log(Value)
1
0
−1
−2
−3
−4
07/01/24
01/01/25
07/01/25
01/01/26
07/01/26
Date
Data Type
Detect

Appendix III: Calcium, MW-38

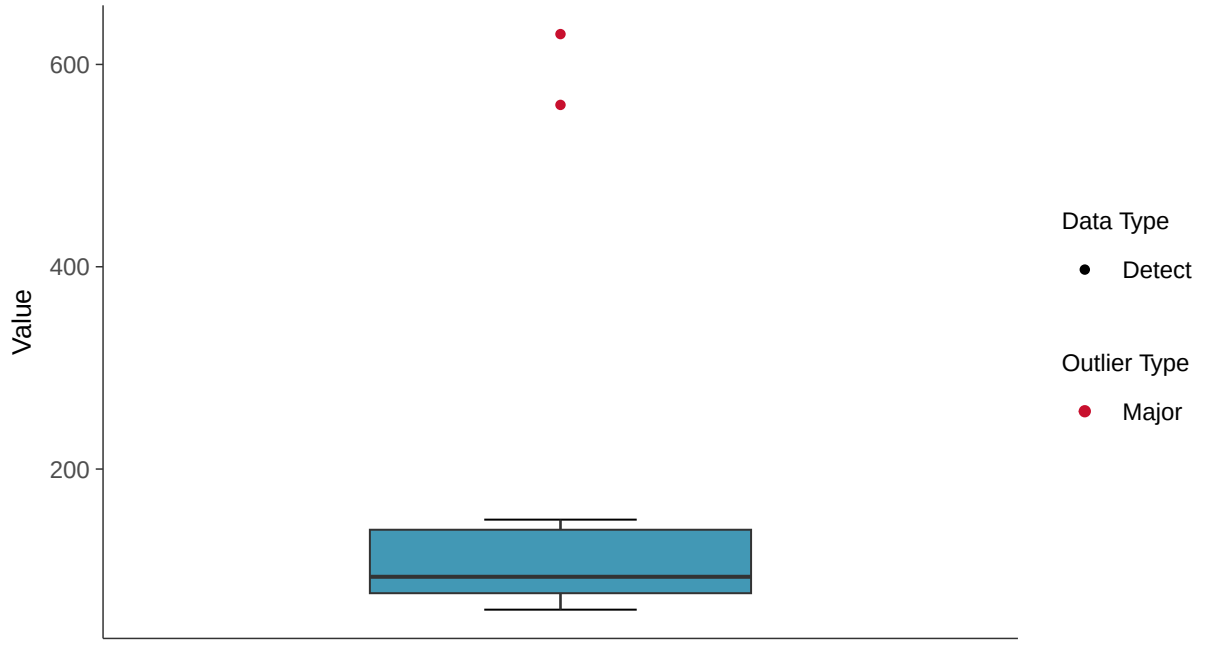
ID: 48_2_3_107





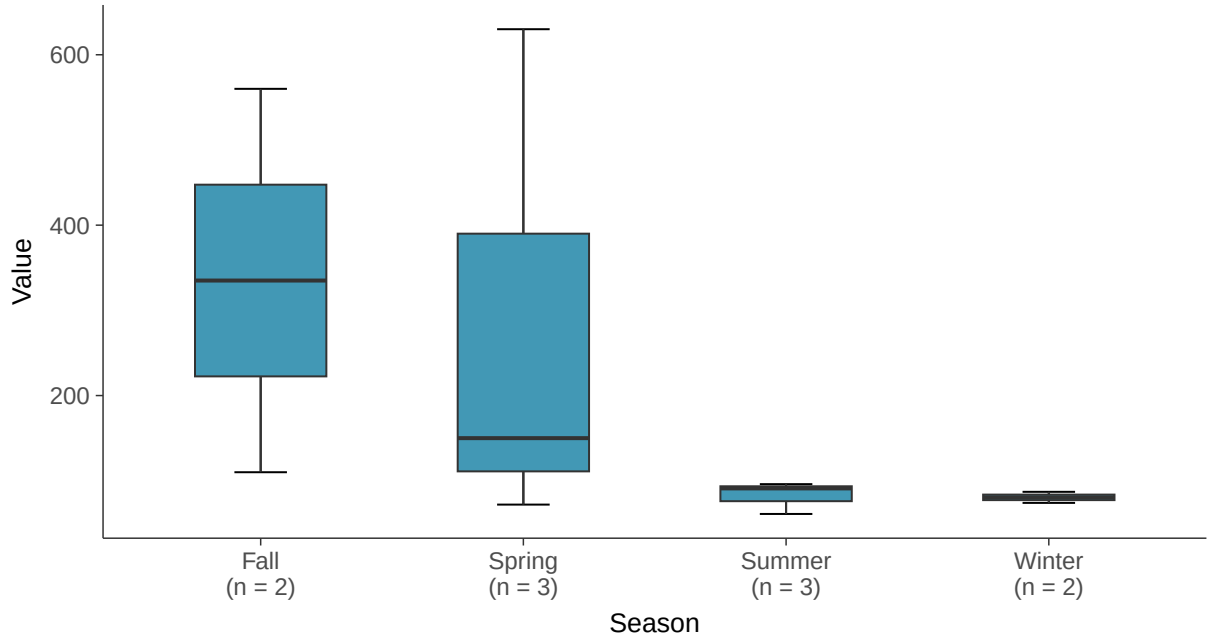
Boxplot

Calcium, MW-38 (mg/L)



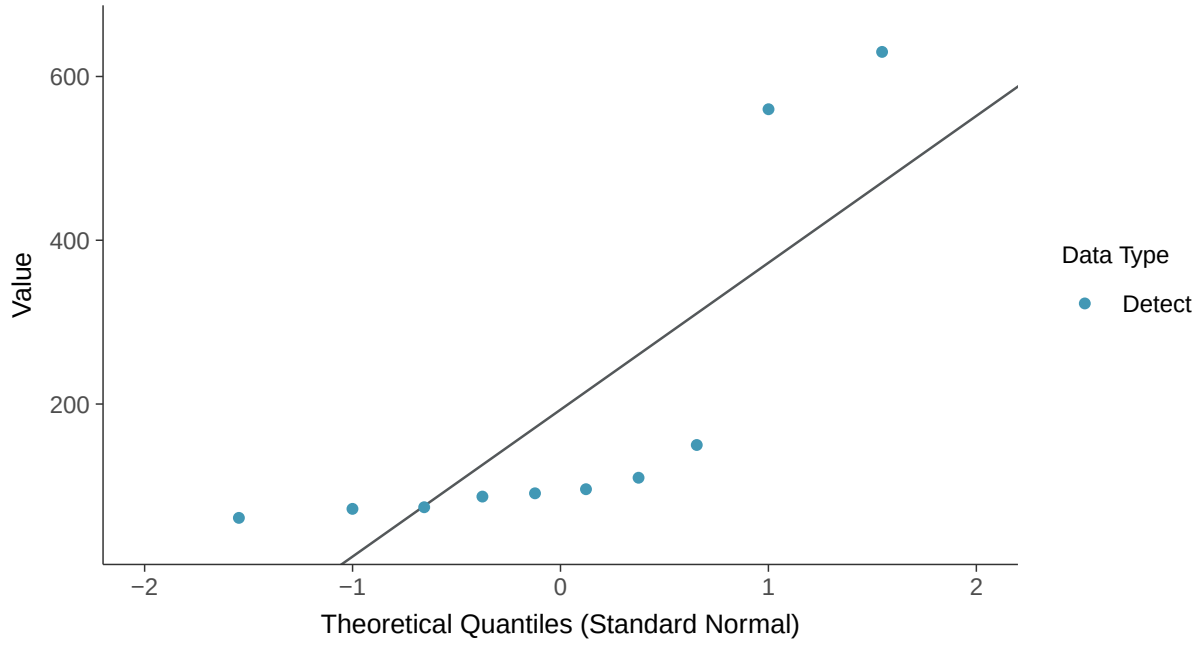
Boxplot by Season

Calcium, MW-38 (mg/L)



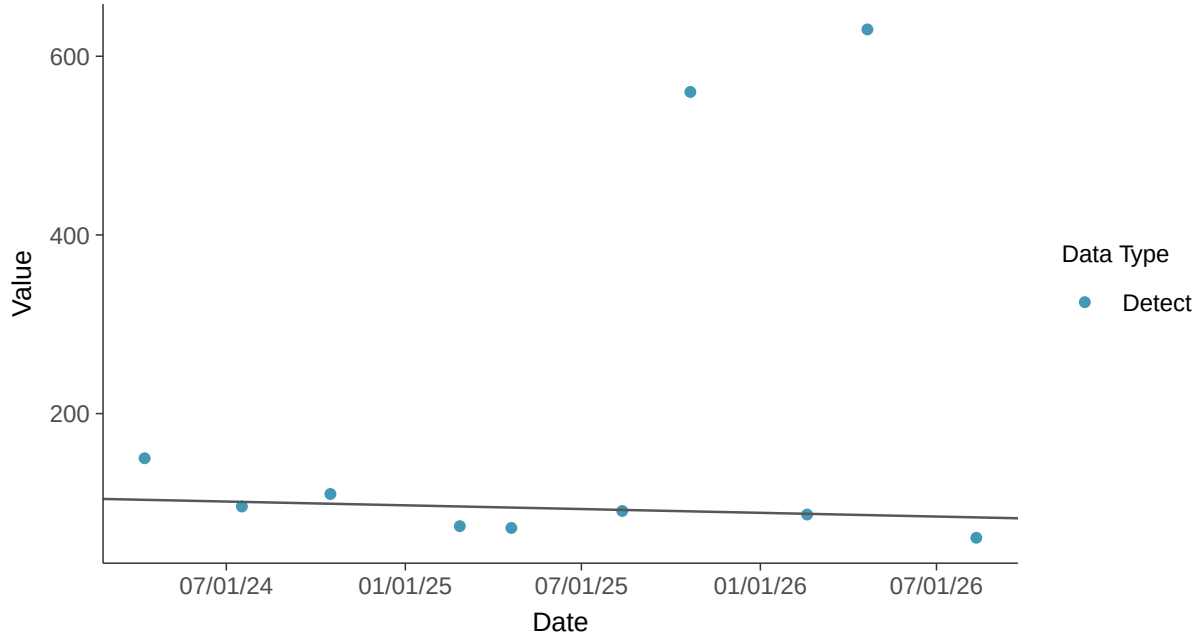
Normal Q-Q plot

Calcium, MW-38 (mg/L)



Trend Regression: Mann-Kendall/Theil-Sen Estimate

Calcium, MW-38 (mg/L)

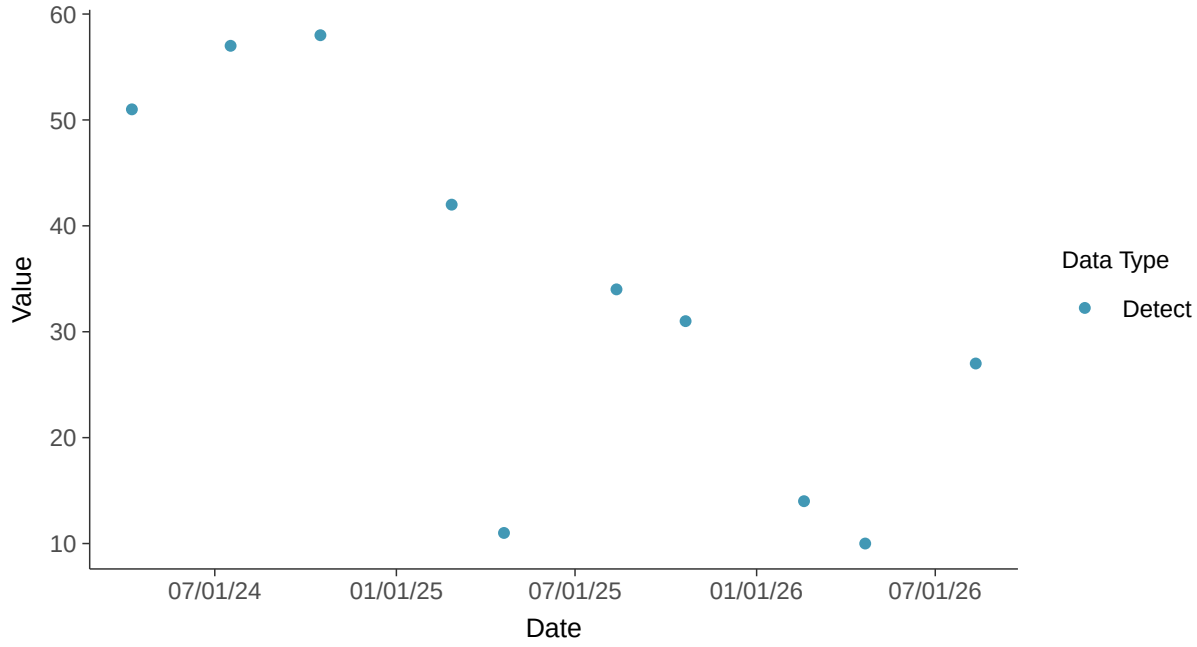


Appendix III: Chloride (as Cl), MW-38

ID: 48_2_3_108

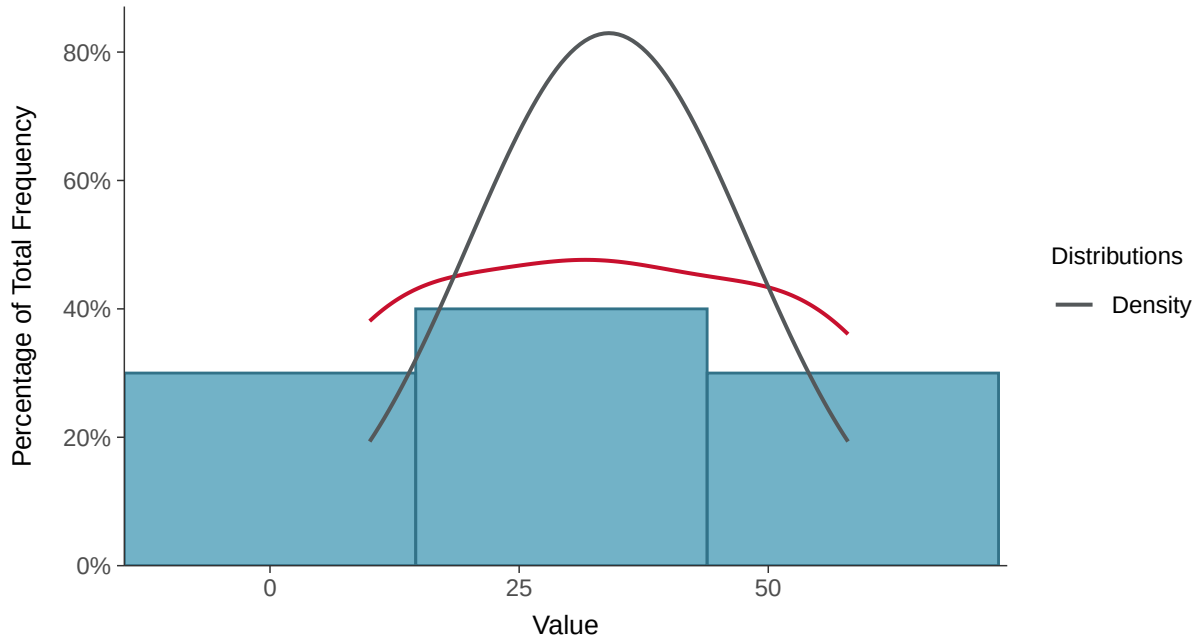
Scatter Plot

Chloride (as Cl), MW-38 (mg/L)



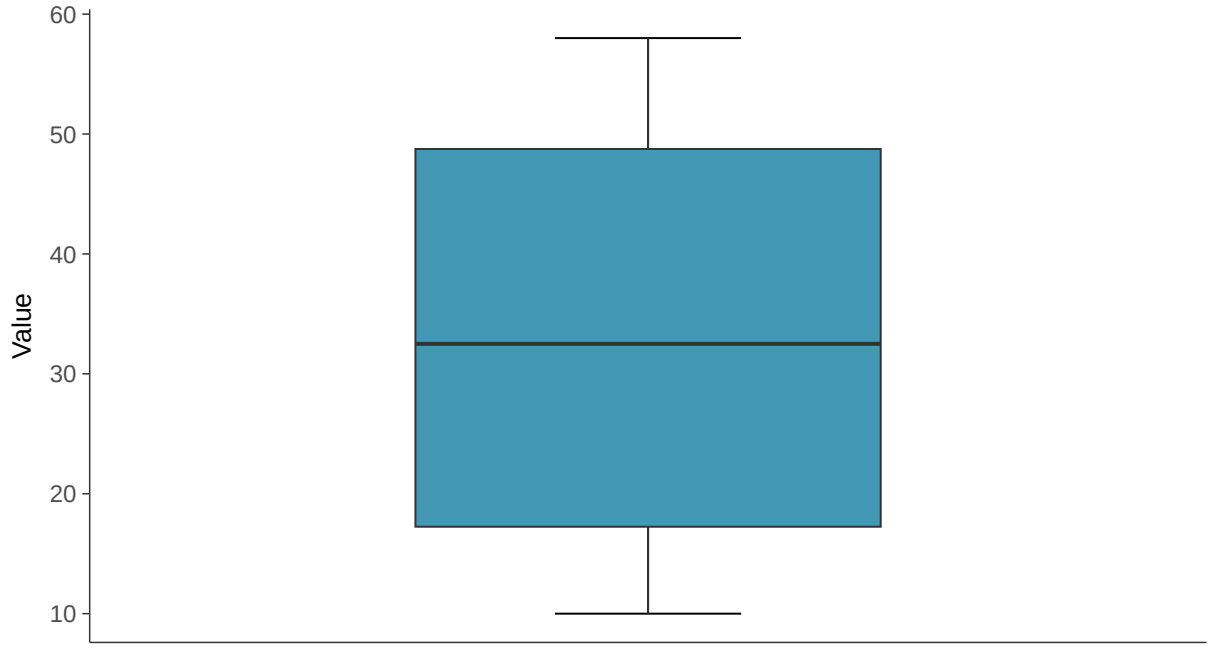
Histogram

Chloride (as Cl), MW-38 (mg/L)



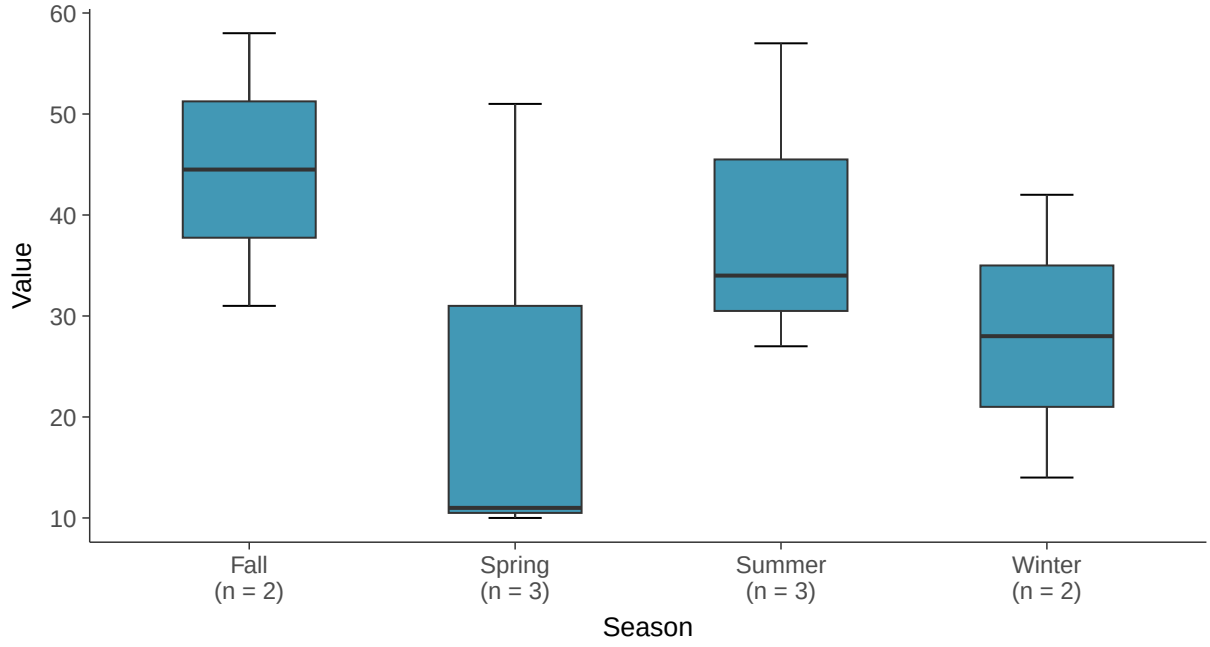
Boxplot

Chloride (as Cl), MW-38 (mg/L)



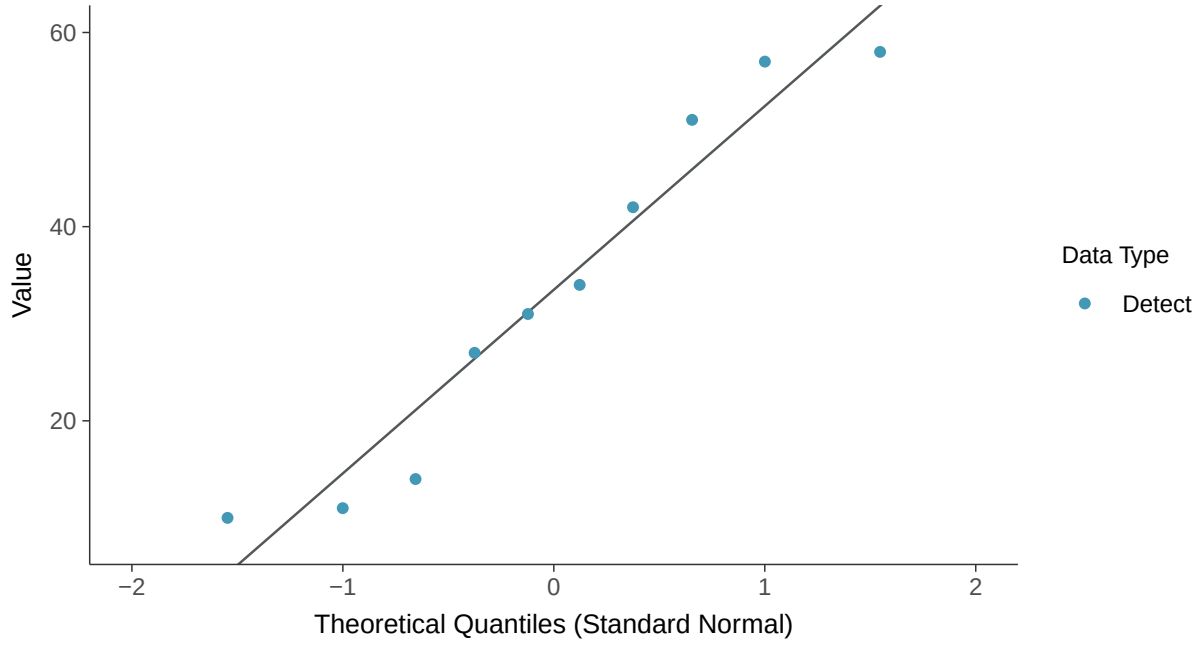
Boxplot by Season

Chloride (as Cl), MW-38 (mg/L)



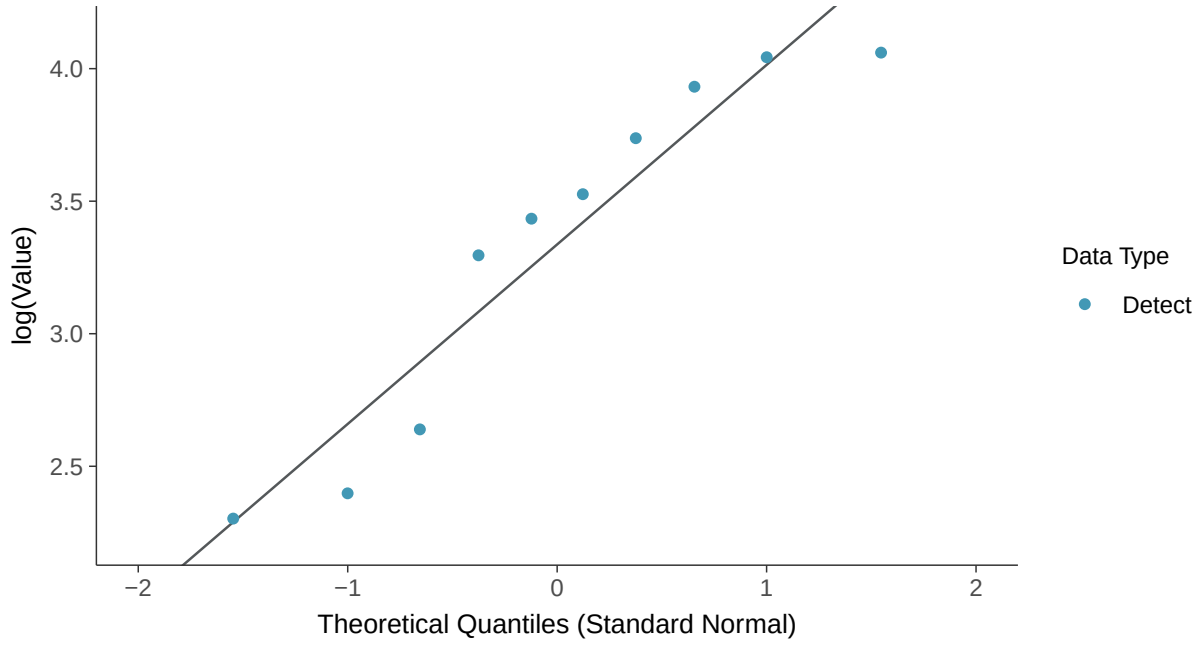
Normal Q-Q plot

Chloride (as Cl), MW-38 (mg/L)



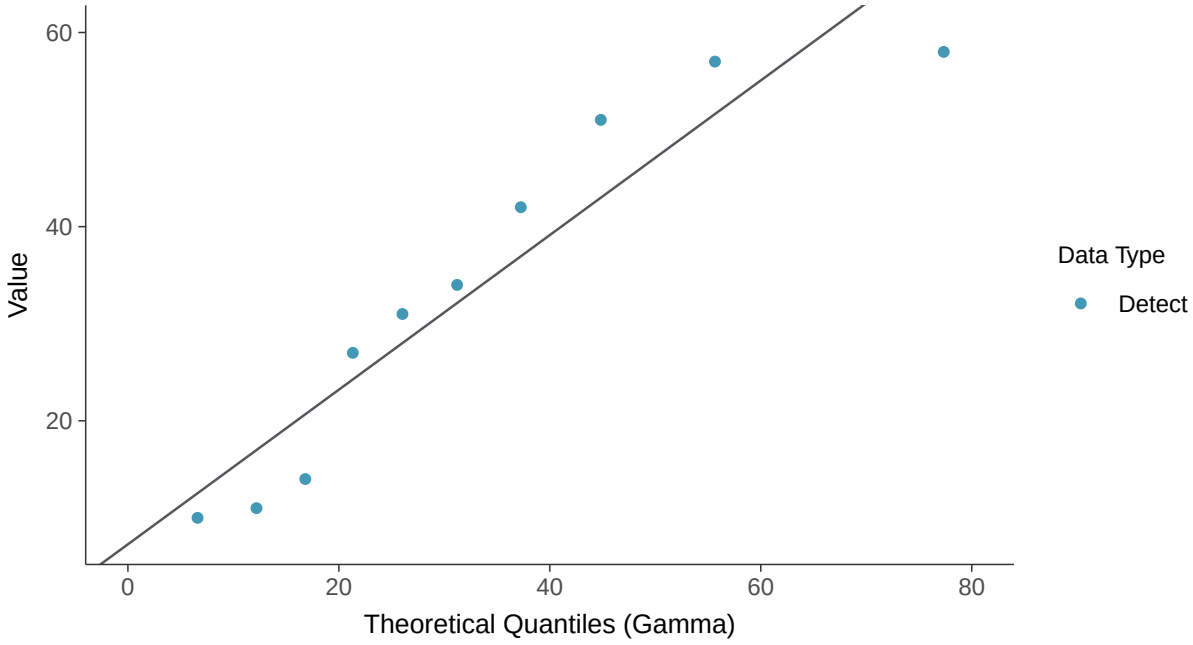
Lognormal Q-Q plot

Chloride (as Cl), MW-38 (mg/L)



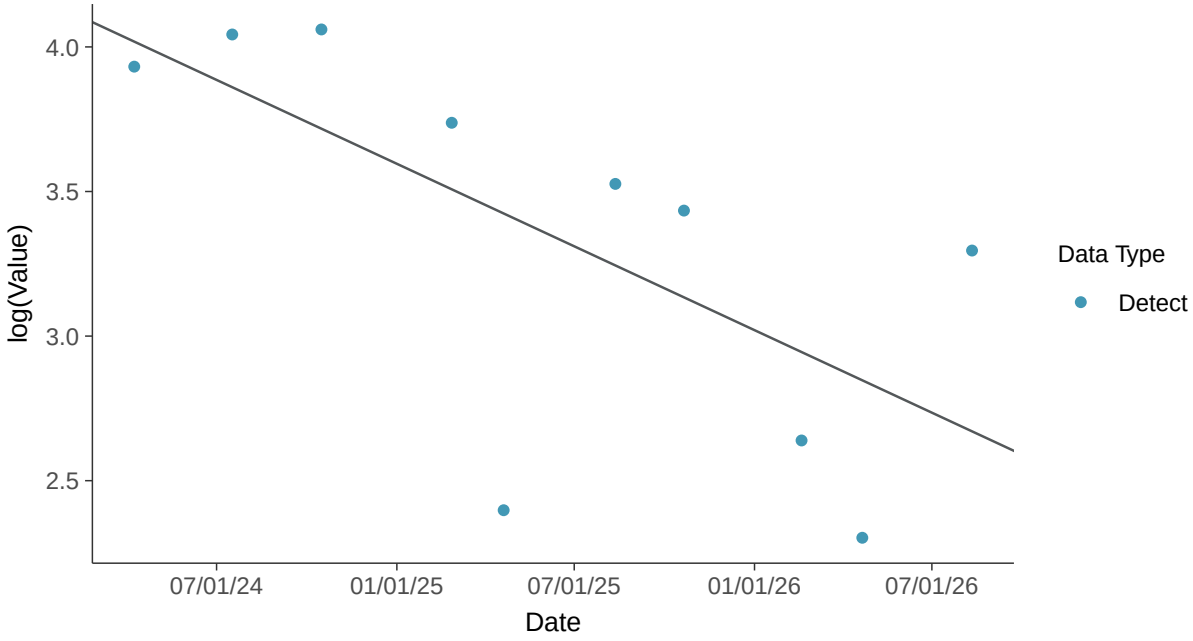
Gamma Q-Q plot

Chloride (as Cl), MW-38 (mg/L)



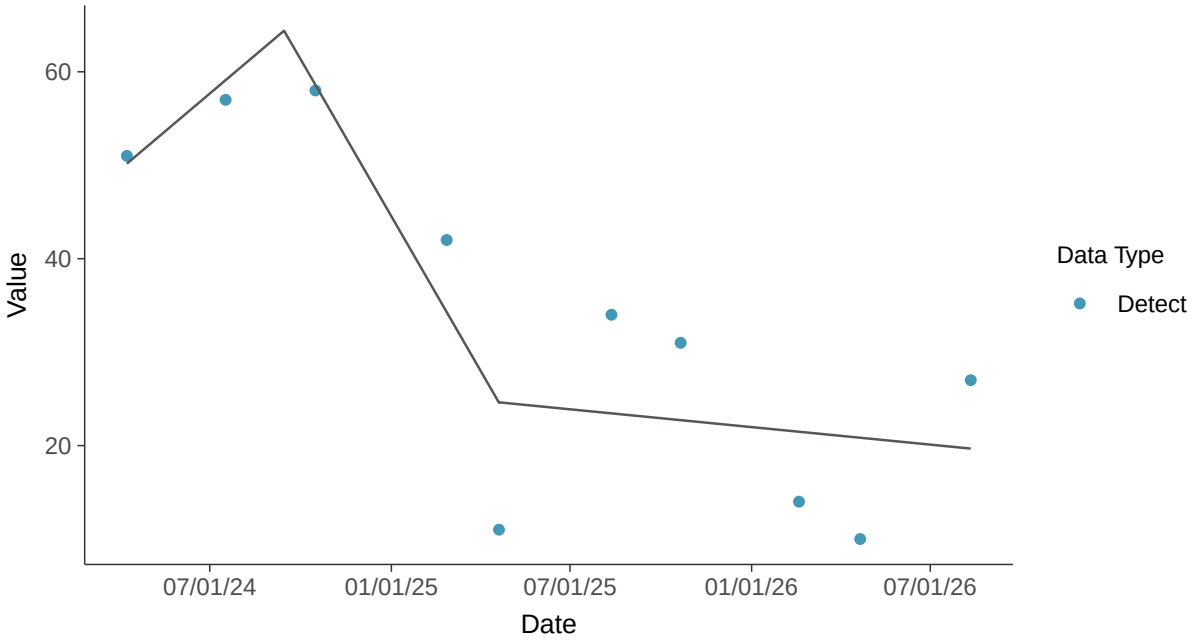
Trend Regression: Lognormal MLE

Chloride (as Cl), MW-38 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Chloride (as Cl), MW-38 (mg/L)

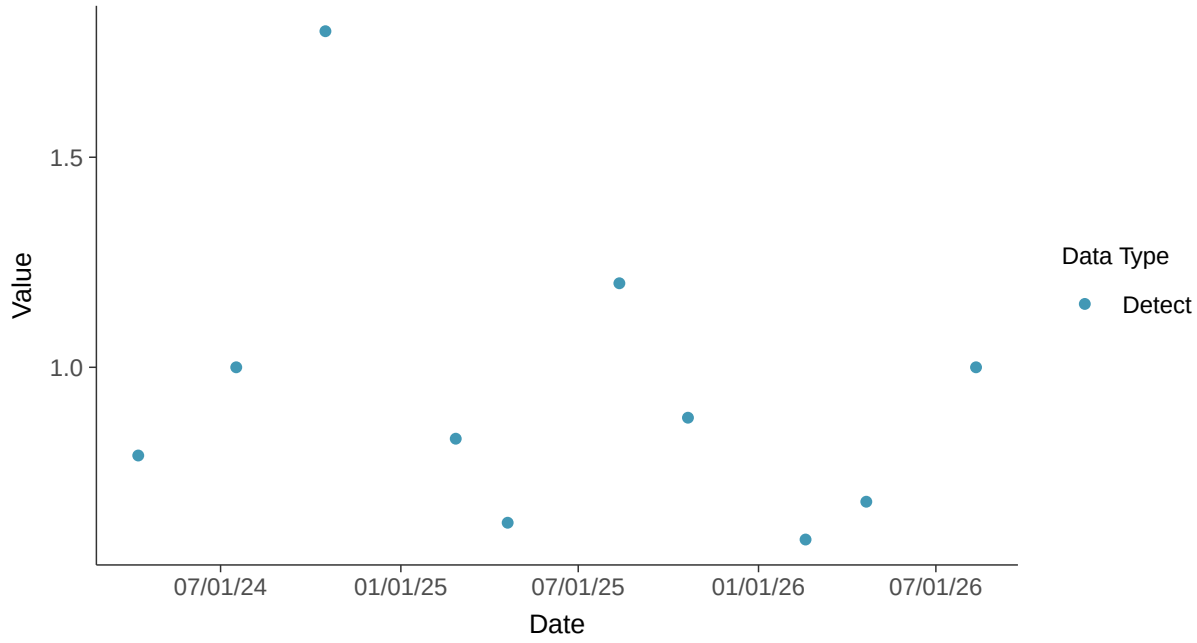


Appendix III: Fluoride, MW-38

ID: 48_2_3_112

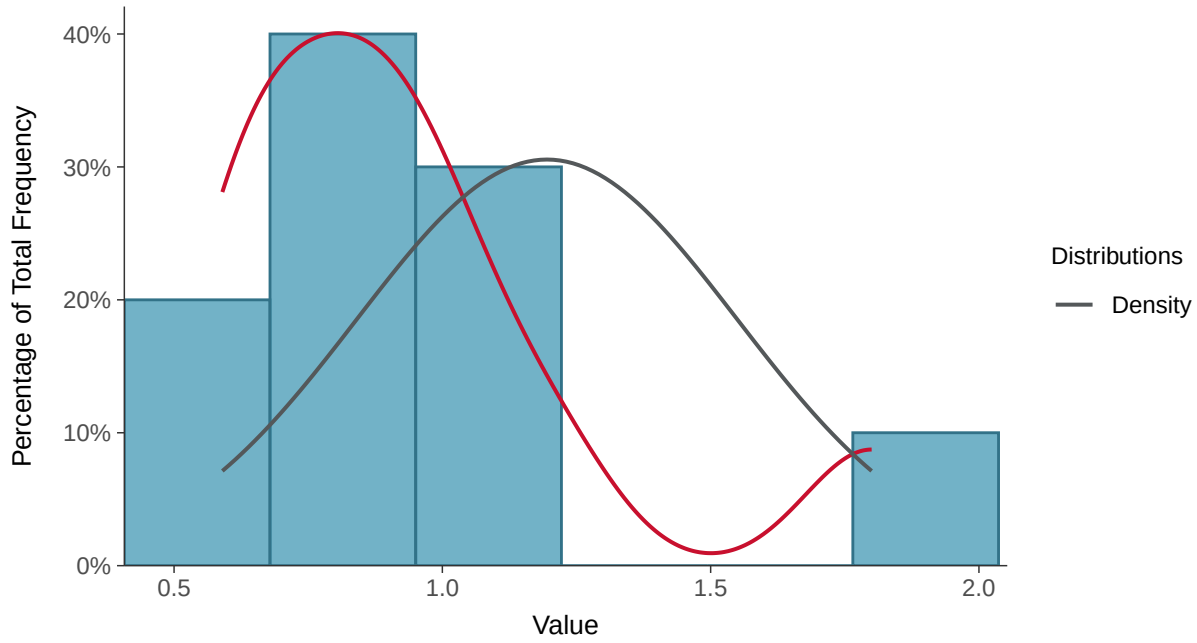
Scatter Plot

Fluoride, MW-38 (mg/L)



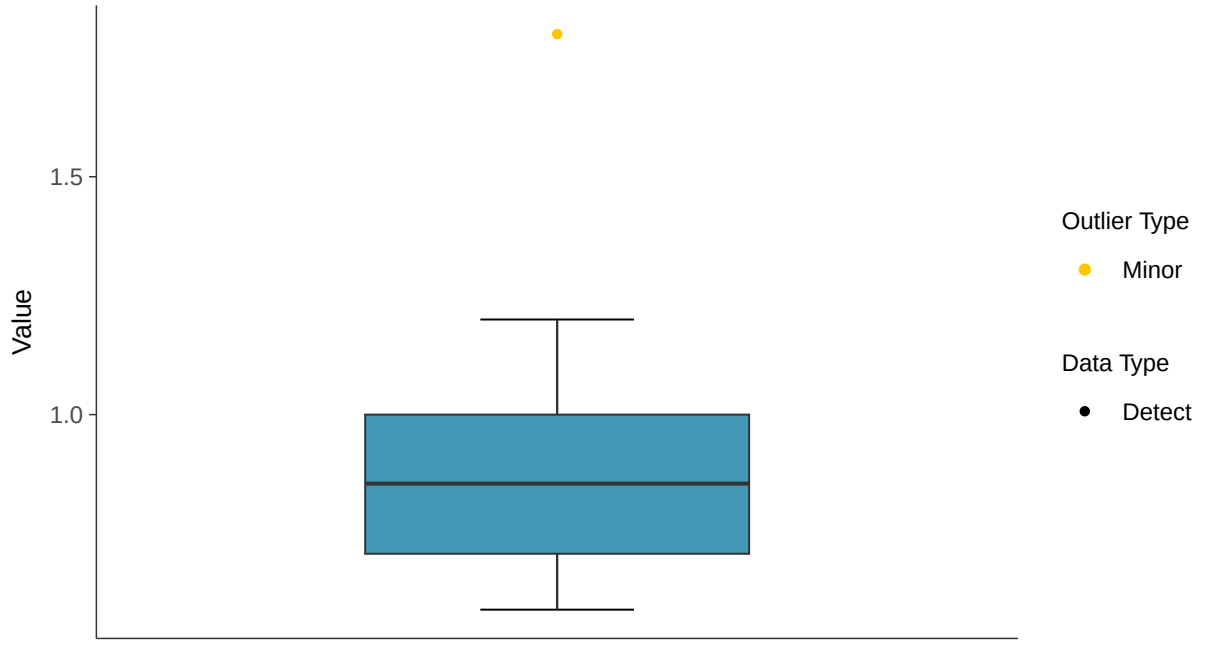
Histogram

Fluoride, MW-38 (mg/L)



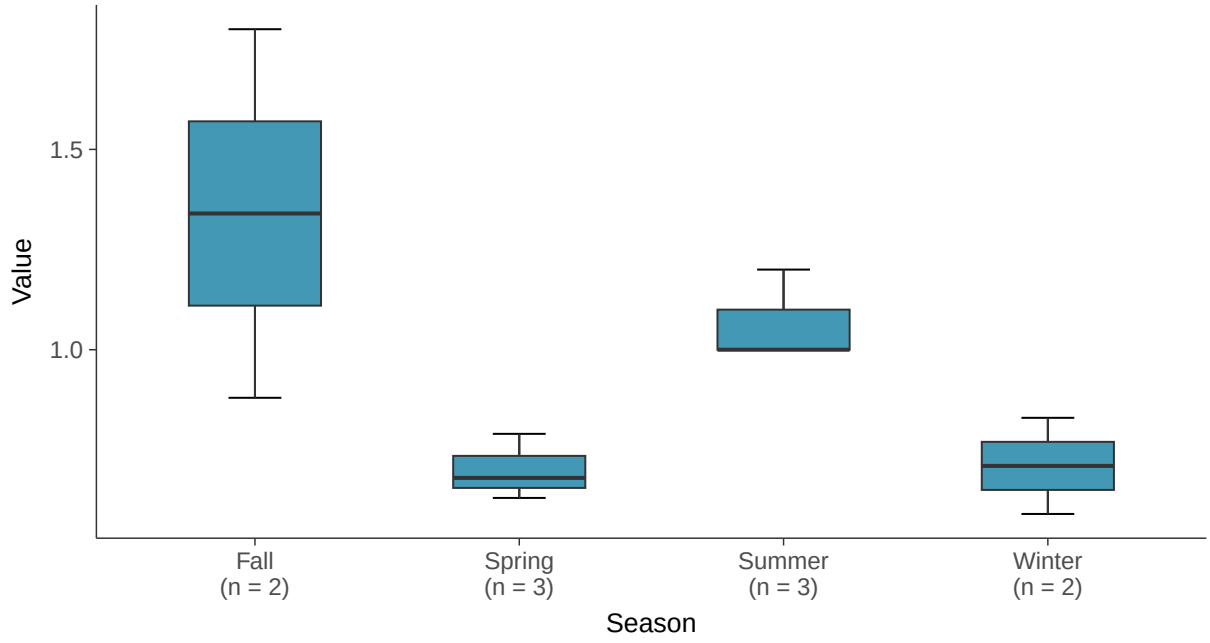
Boxplot

Fluoride, MW-38 (mg/L)



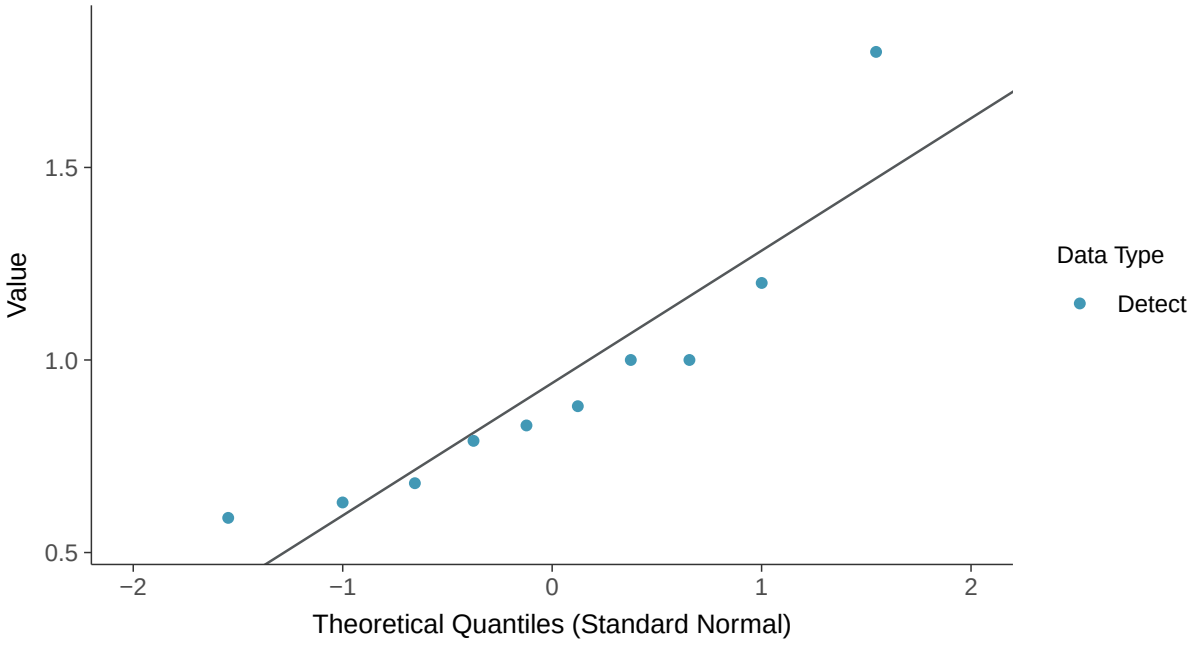
Boxplot by Season

Fluoride, MW-38 (mg/L)



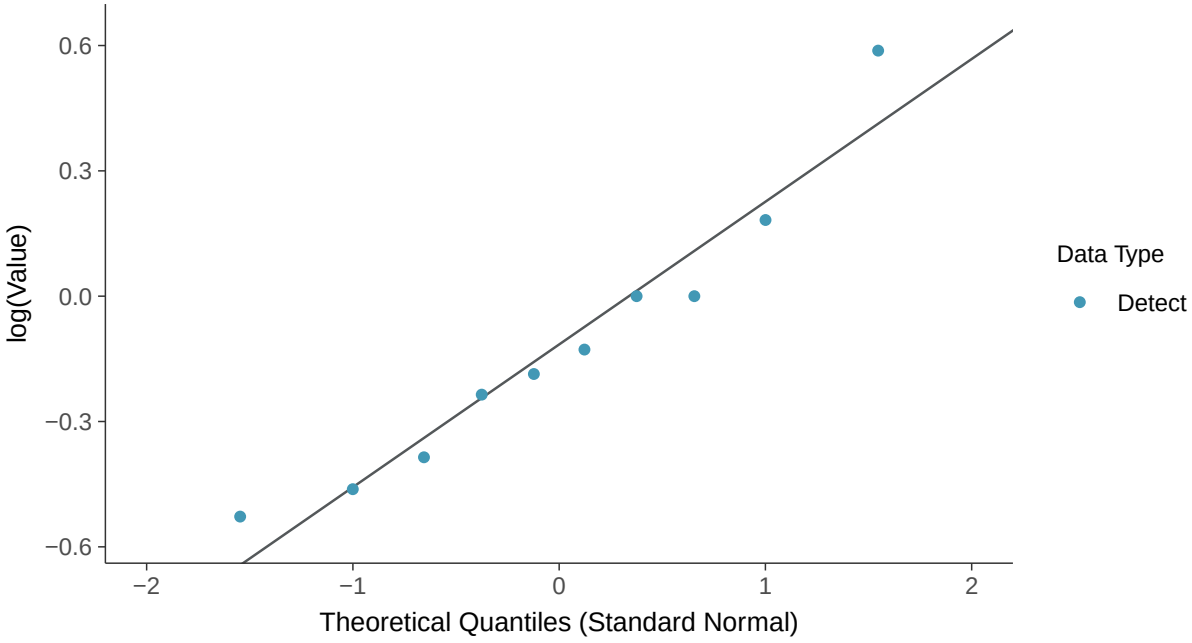
Normal Q-Q plot

Fluoride, MW-38 (mg/L)



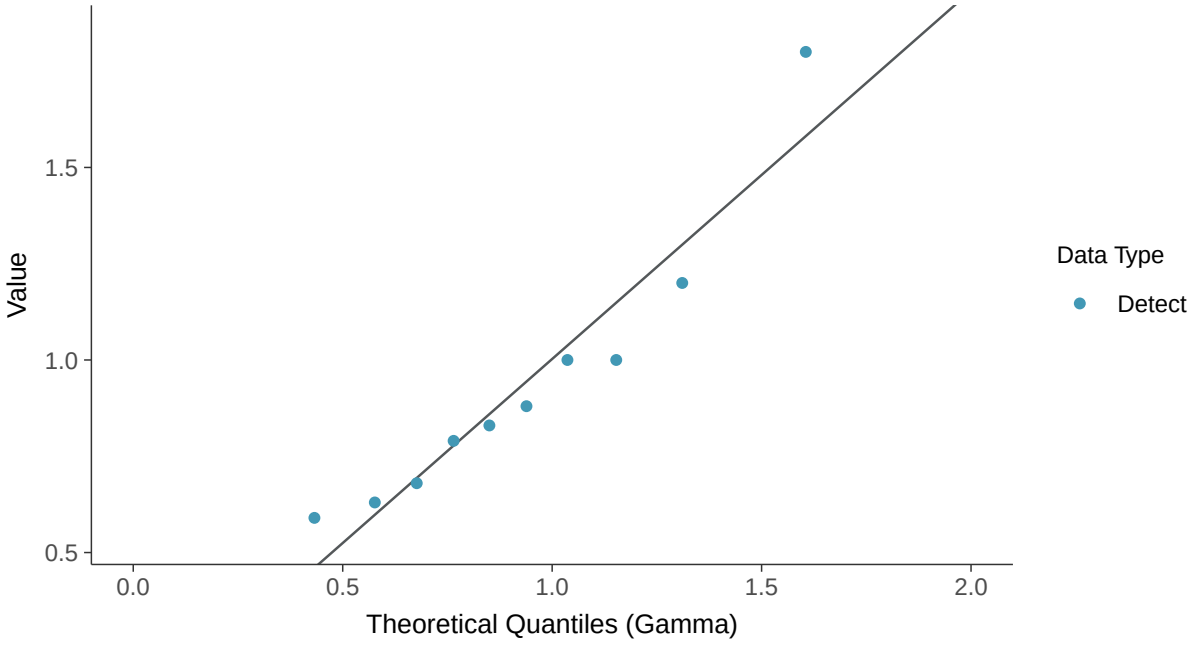
Lognormal Q-Q plot

Fluoride, MW-38 (mg/L)



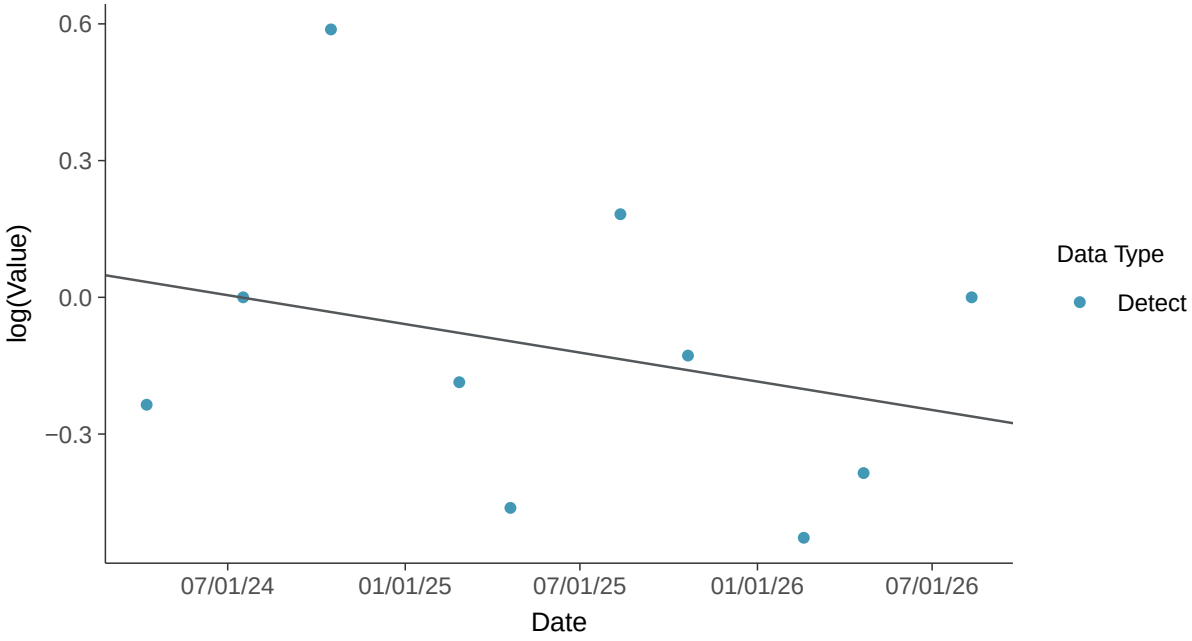
Gamma Q-Q plot

Fluoride, MW-38 (mg/L)



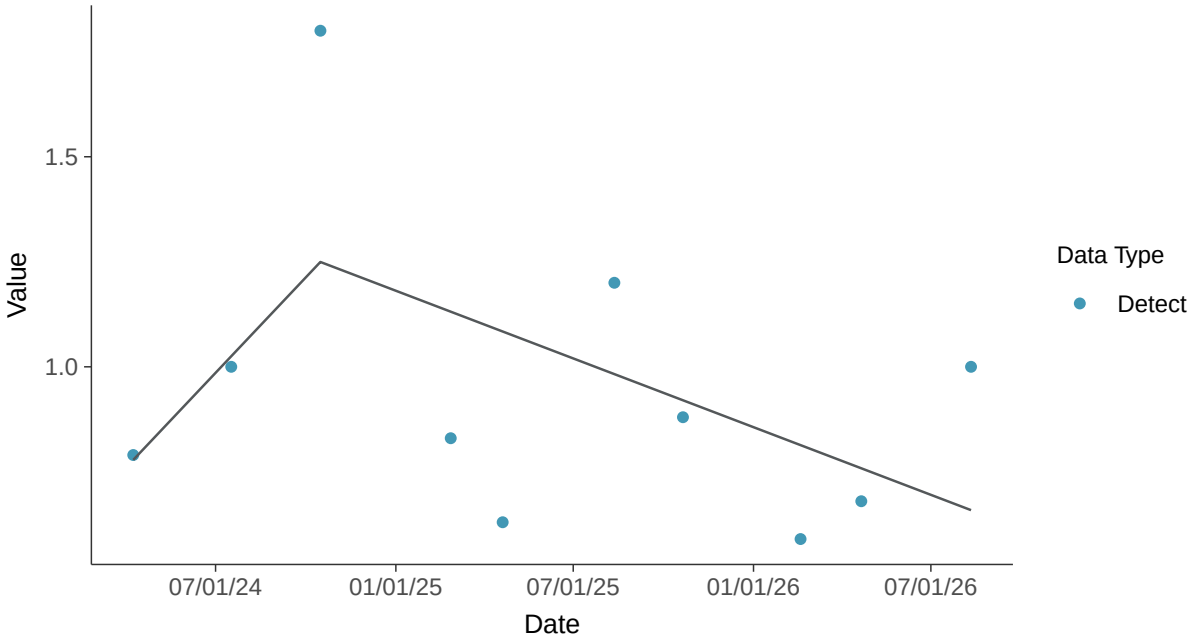
Trend Regression: Lognormal MLE

Fluoride, MW-38 (mg/L)



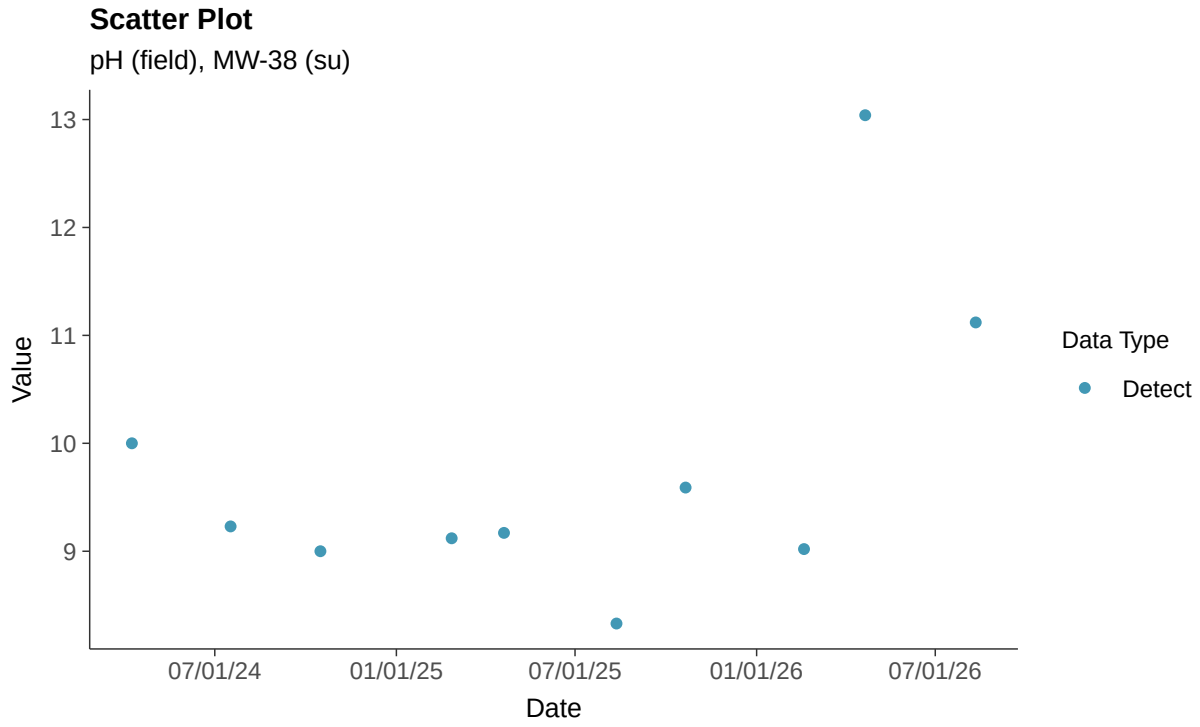
Trend Regression: Piecewise Linear-Linear

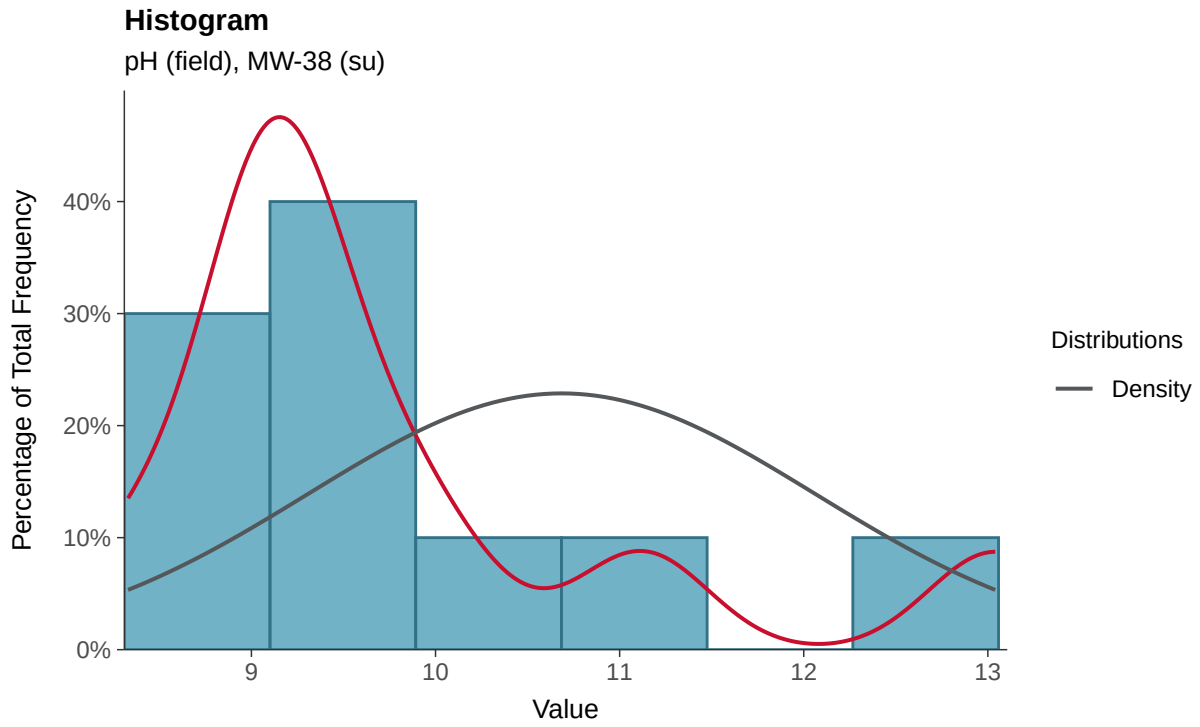
Fluoride, MW-38 (mg/L)



Appendix III: pH (field), MW-38

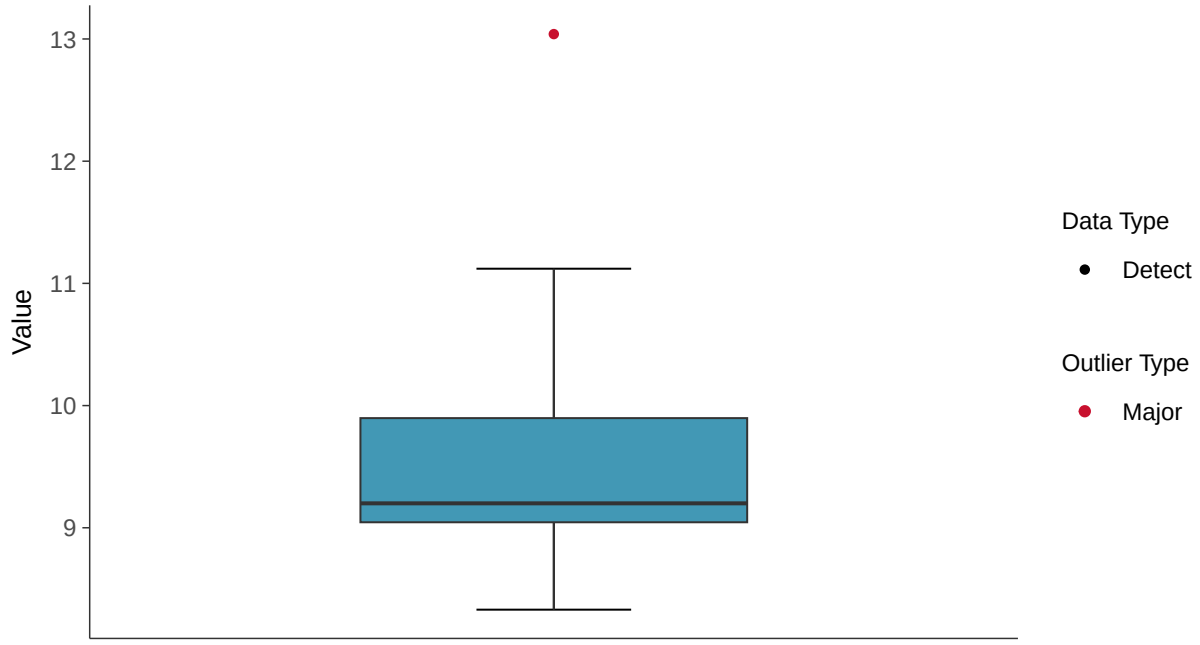
ID: 48_2_3_120





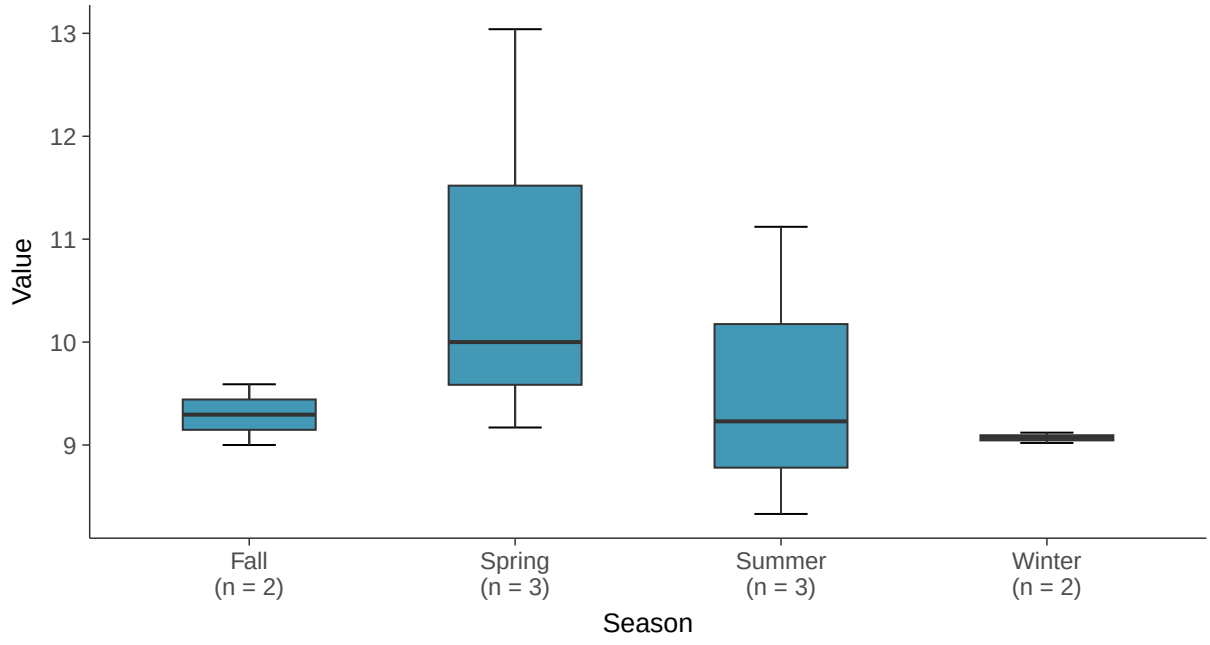
Boxplot

pH (field), MW-38 (su)



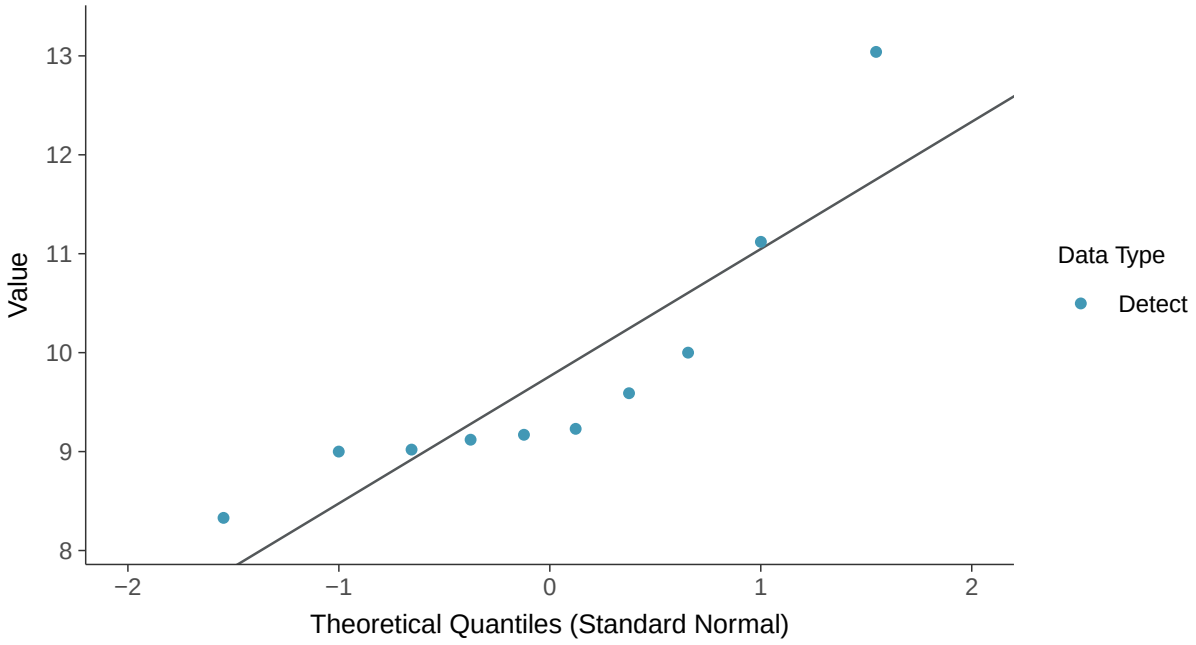
Boxplot by Season

pH (field), MW-38 (su)



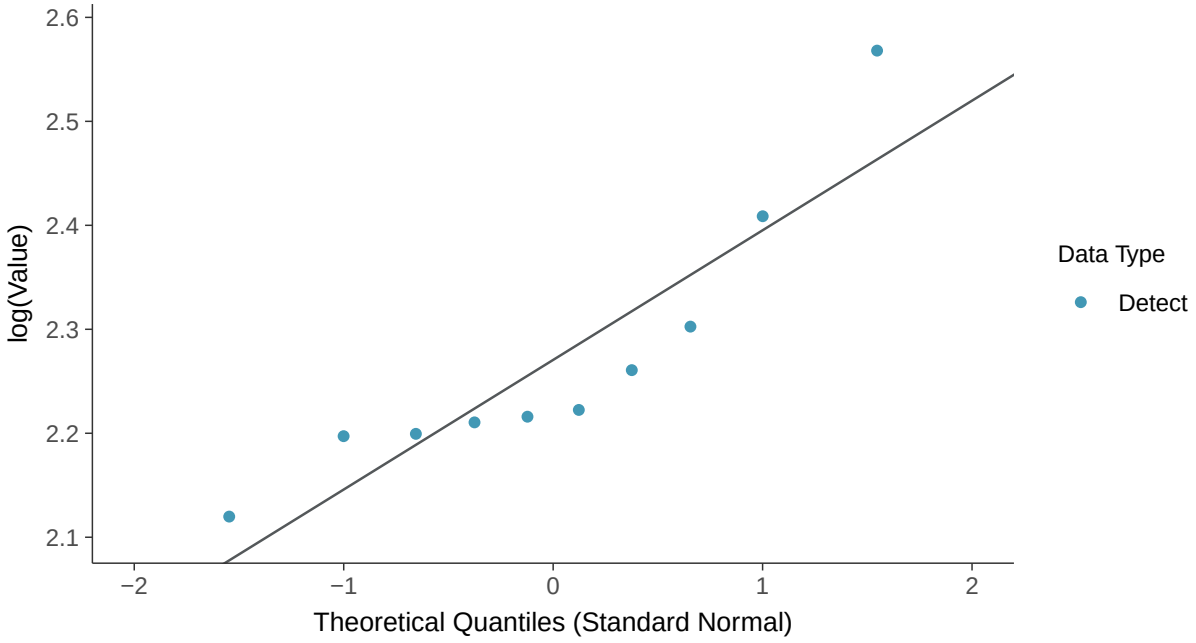
Normal Q-Q plot

pH (field), MW-38 (su)



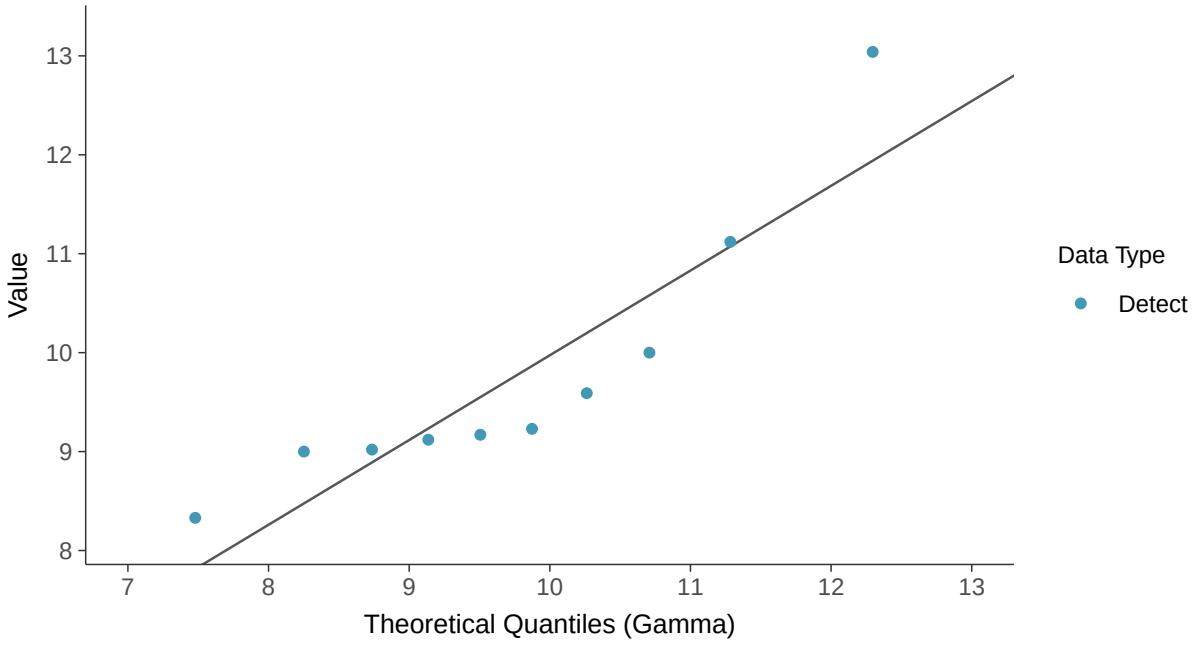
Lognormal Q-Q plot

pH (field), MW-38 (su)



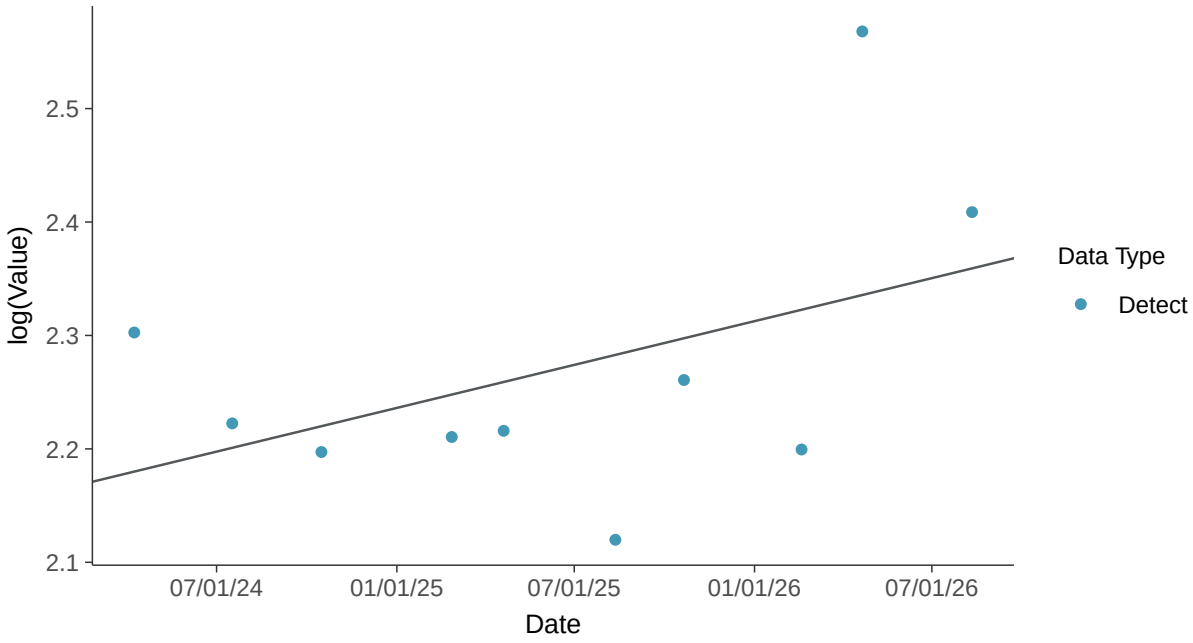
Gamma Q-Q plot

pH (field), MW-38 (su)



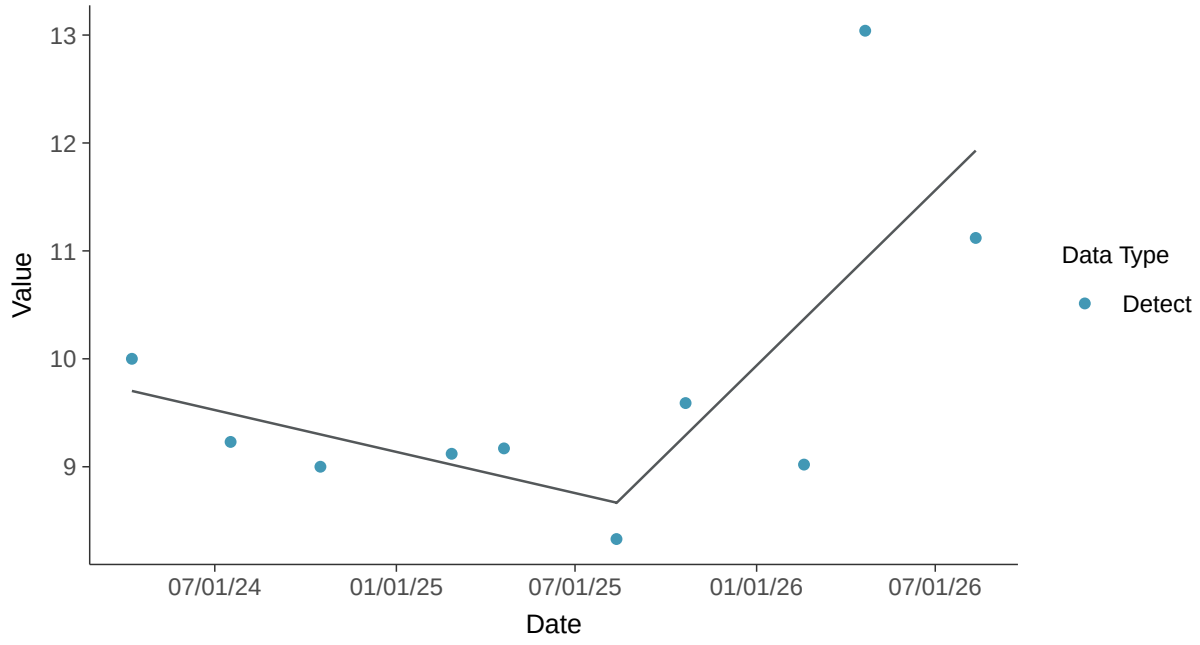
Trend Regression: Lognormal MLE

pH (field), MW-38 (su)



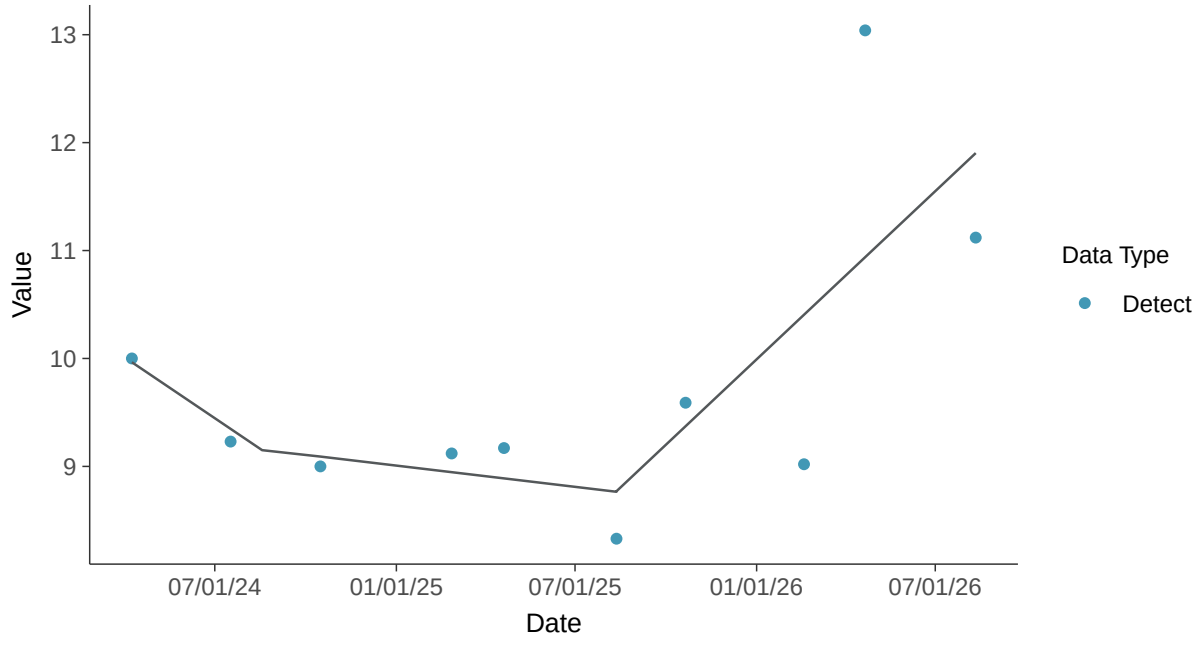
Trend Regression: Piecewise Linear-Linear

pH (field), MW-38 (su)



Trend Regression: Piecewise Linear-Linear-Linear

pH (field), MW-38 (su)

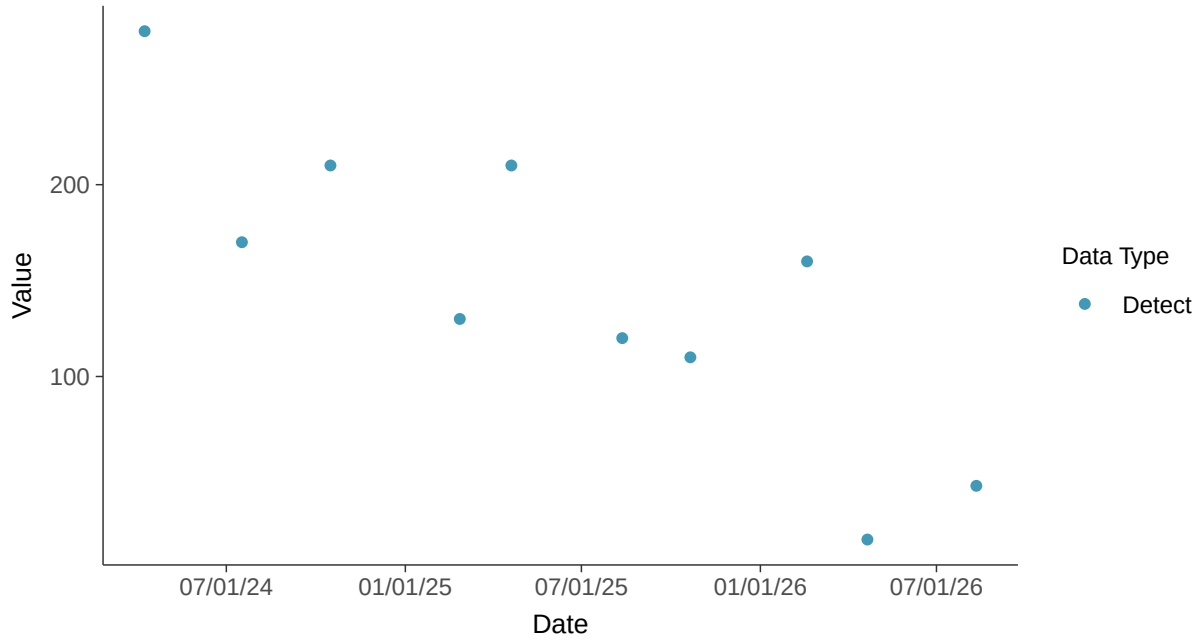


Appendix III: Sulfate (as SO4), MW-38

ID: 48_2_3_124

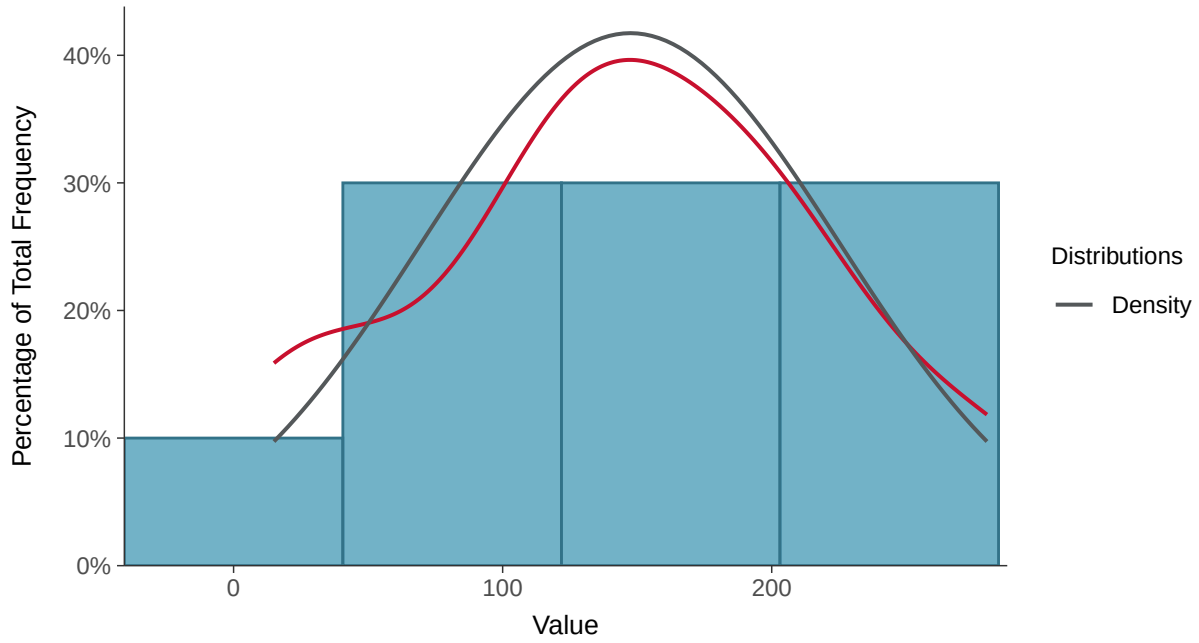
Scatter Plot

Sulfate (as SO4), MW-38 (mg/L)



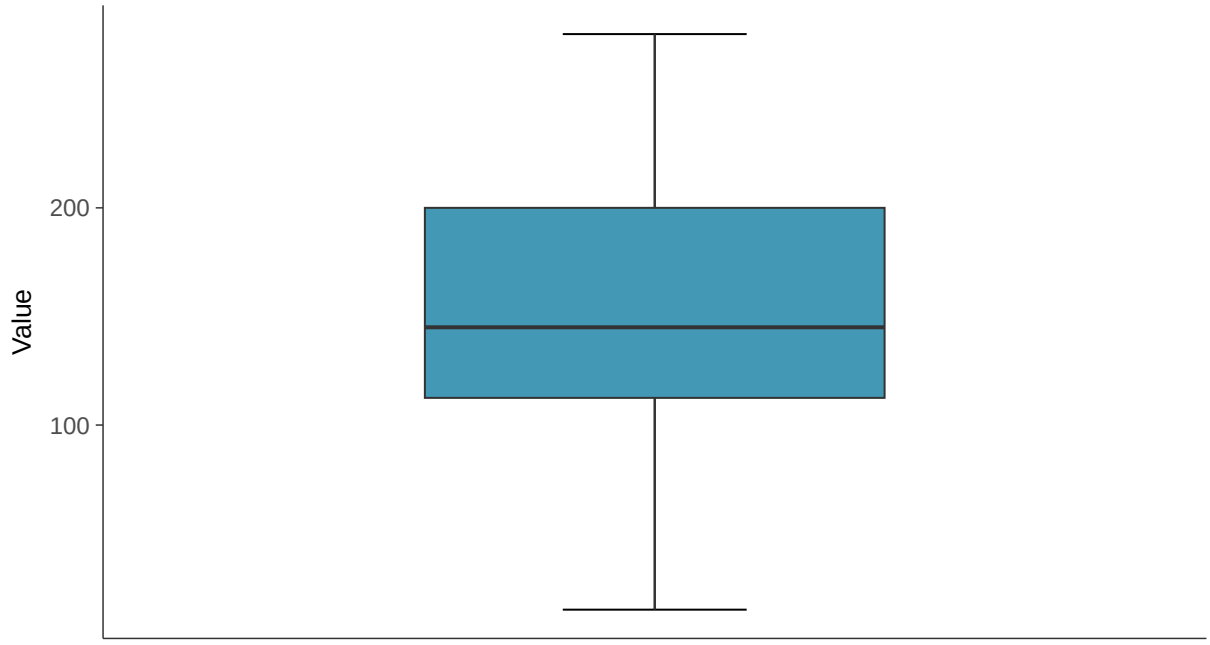
Histogram

Sulfate (as SO4), MW-38 (mg/L)



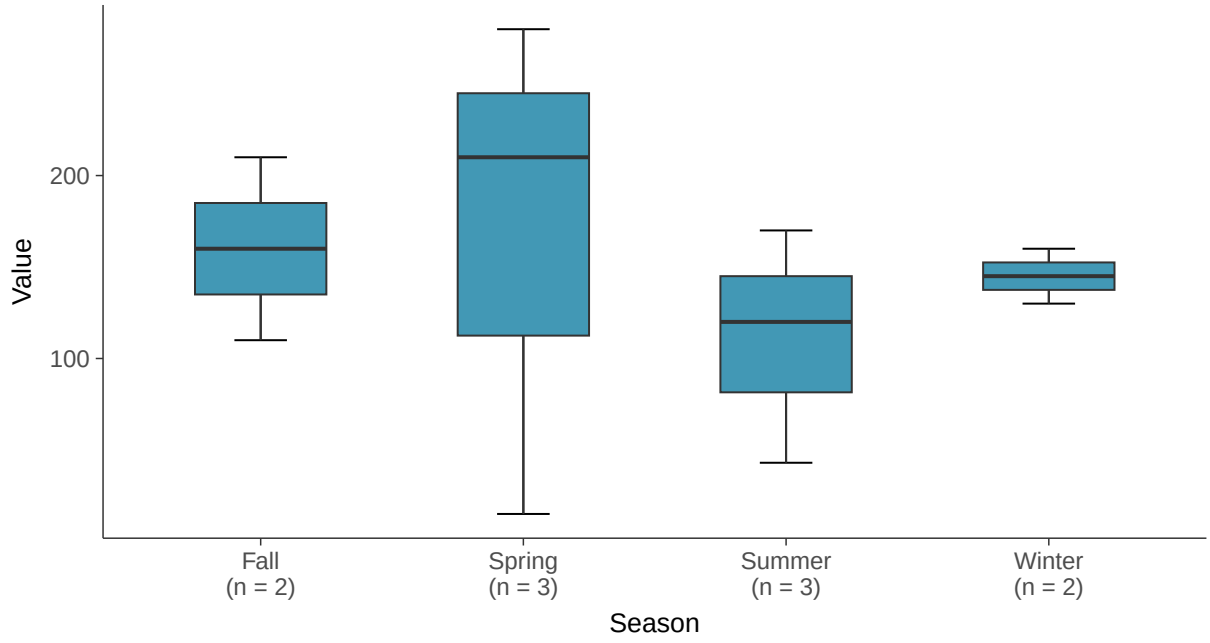
Boxplot

Sulfate (as SO4), MW-38 (mg/L)



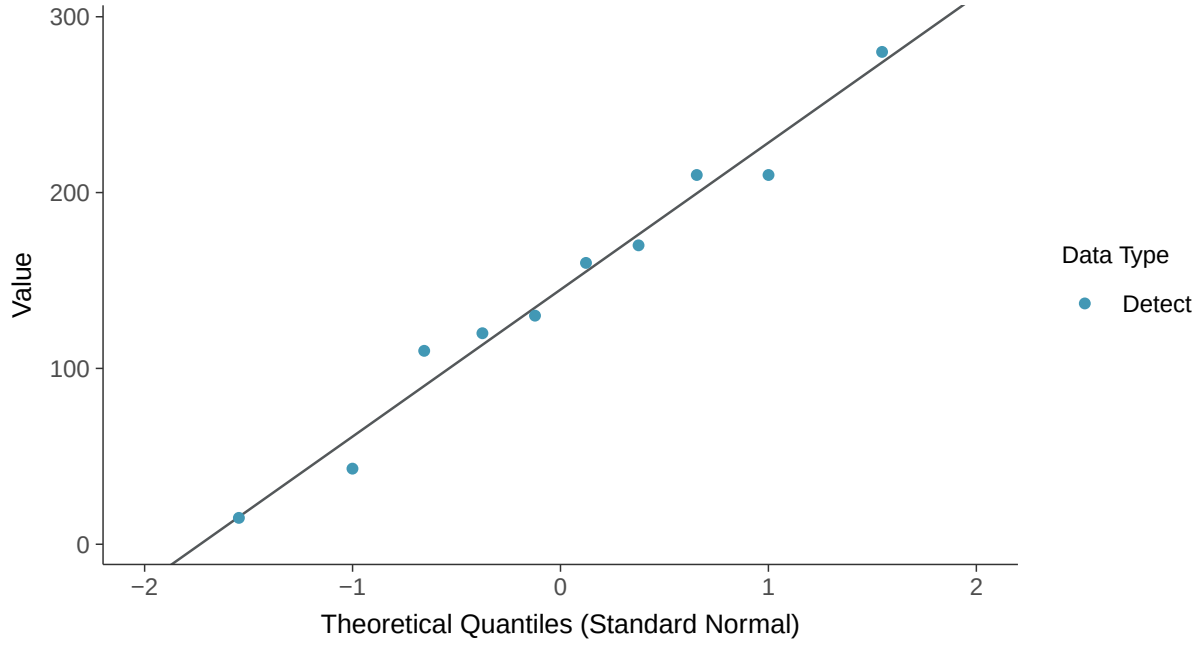
Boxplot by Season

Sulfate (as SO4), MW-38 (mg/L)



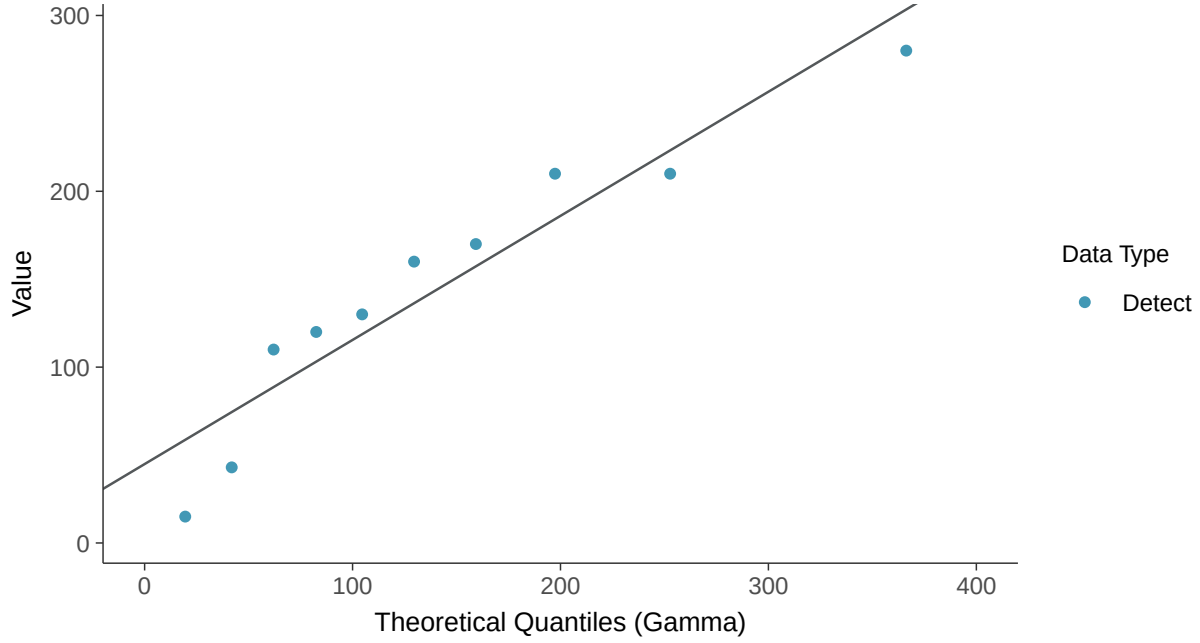
Normal Q-Q plot

Sulfate (as SO4), MW-38 (mg/L)



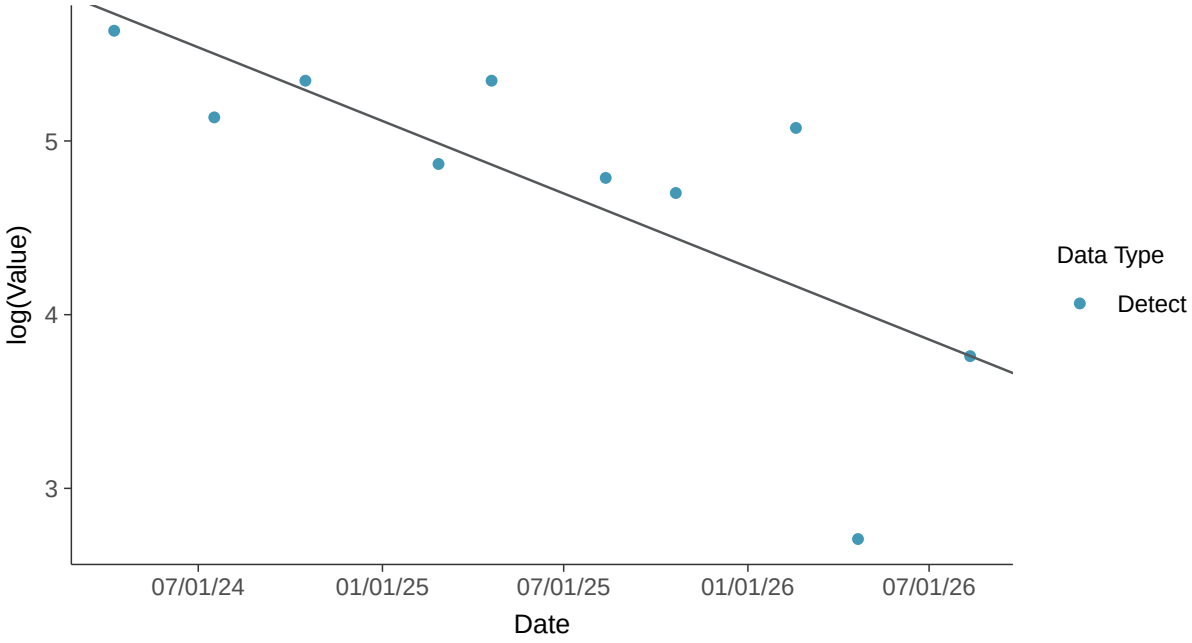
Gamma Q-Q plot

Sulfate (as SO4), MW-38 (mg/L)



Trend Regression: Lognormal MLE

Sulfate (as SO4), MW-38 (mg/L)

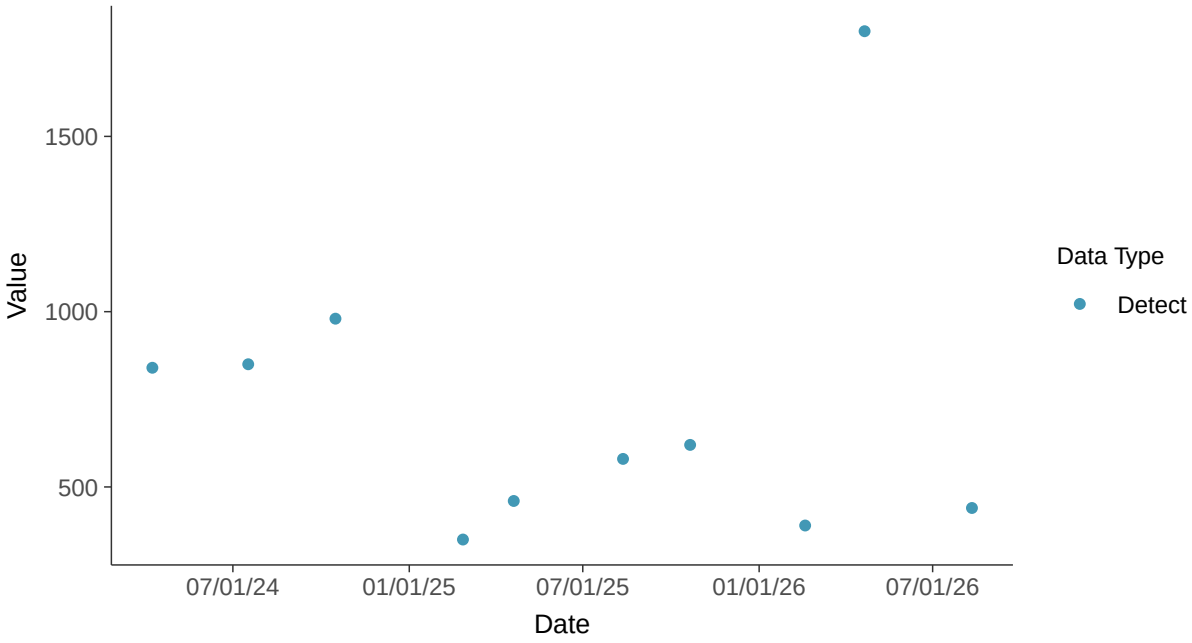


Appendix III: Total Dissolved Solids, MW-38

ID: 48_2_3_126

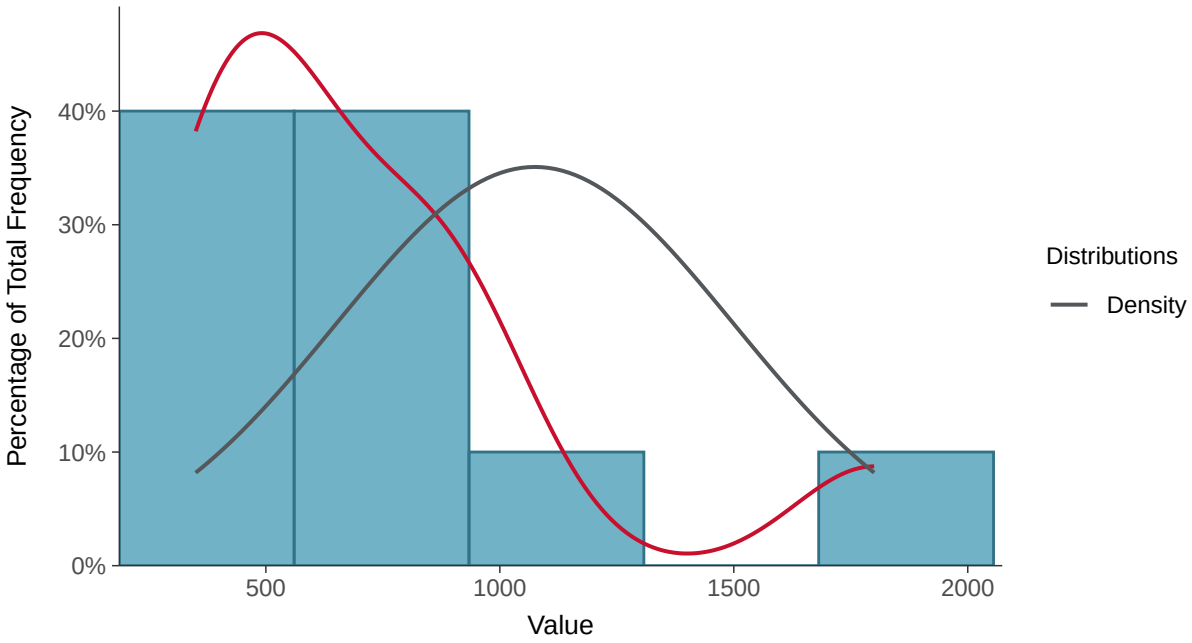
Scatter Plot

Total Dissolved Solids, MW-38 (mg/L)



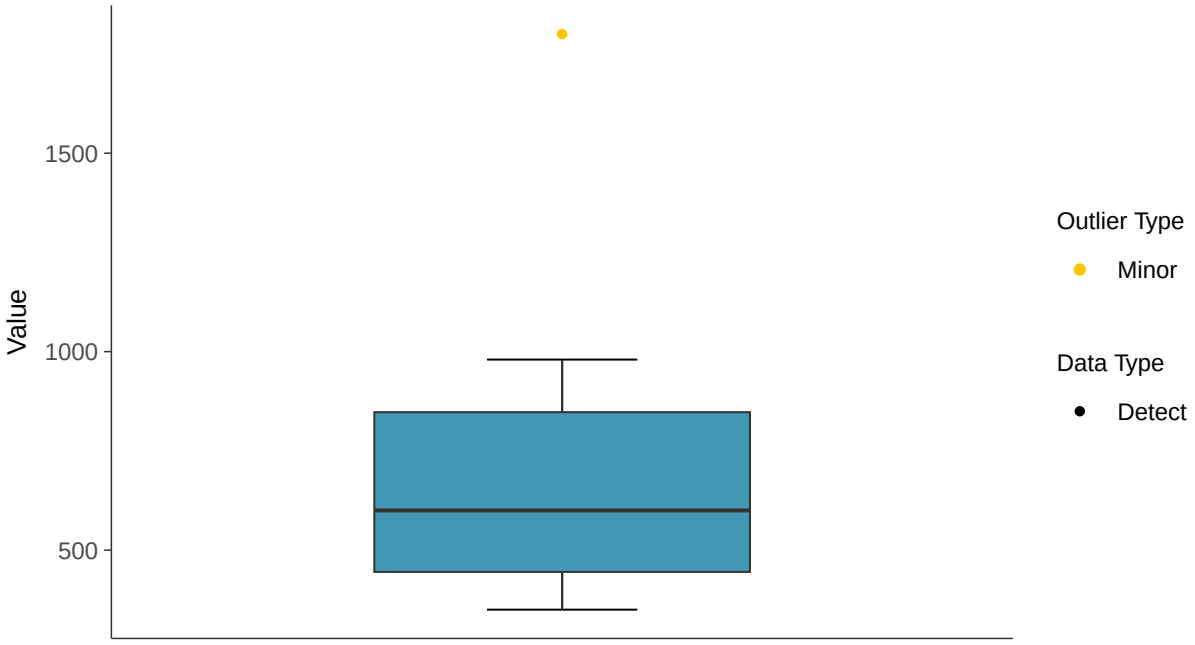
Histogram

Total Dissolved Solids, MW-38 (mg/L)



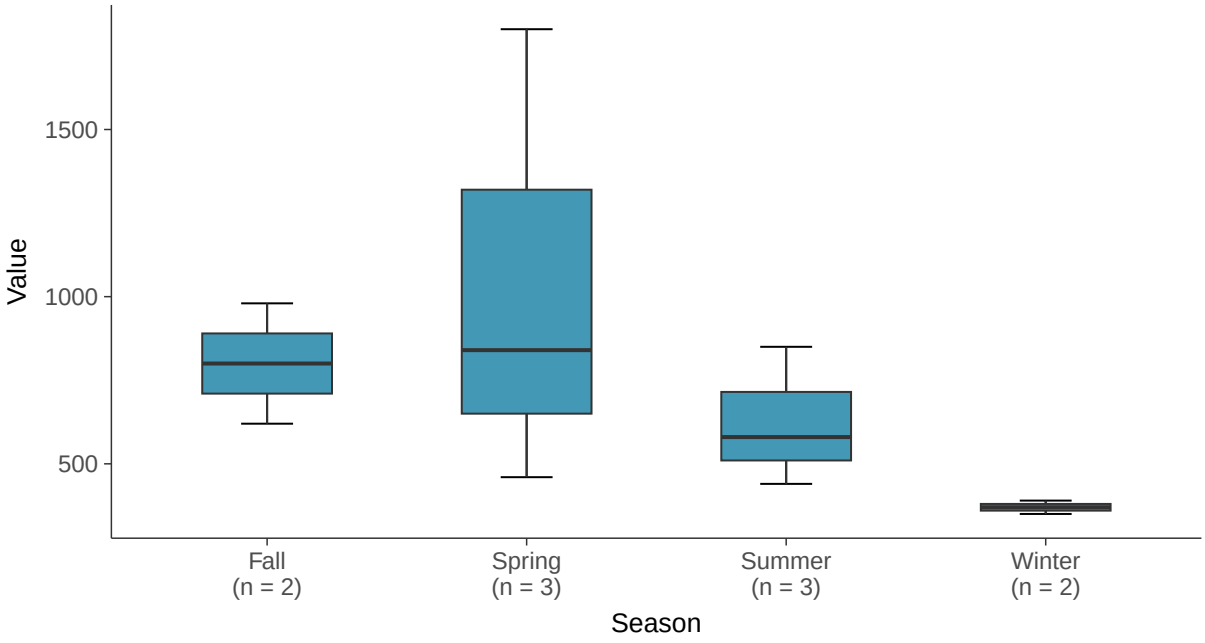
Boxplot

Total Dissolved Solids, MW-38 (mg/L)



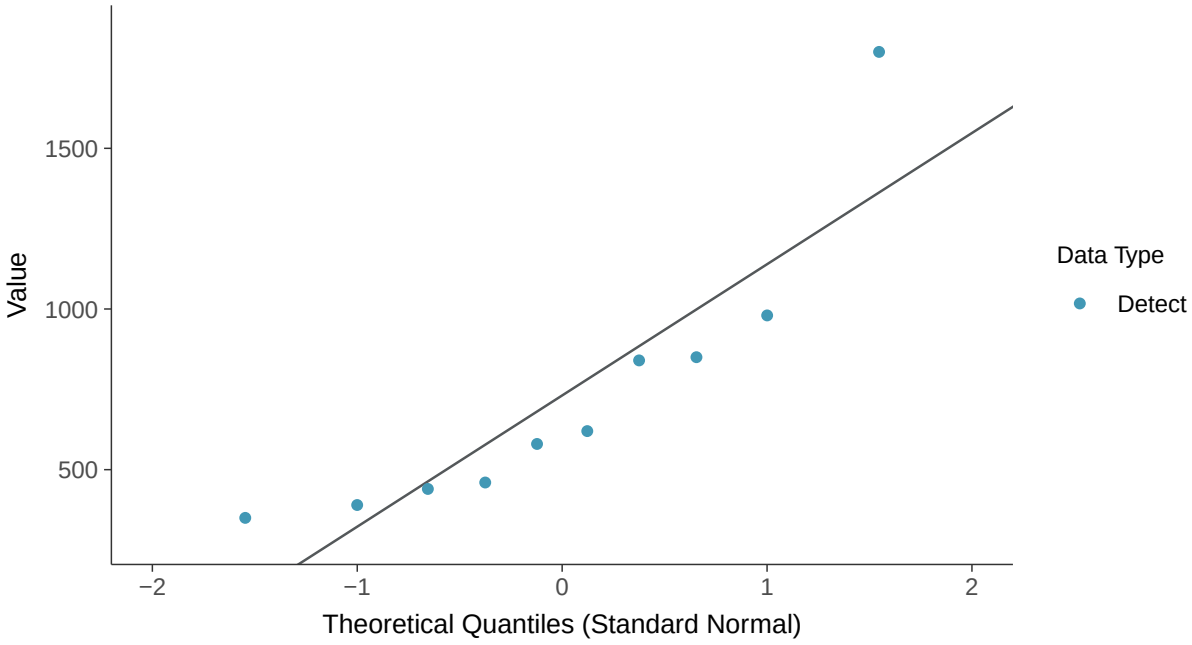
Boxplot by Season

Total Dissolved Solids, MW-38 (mg/L)



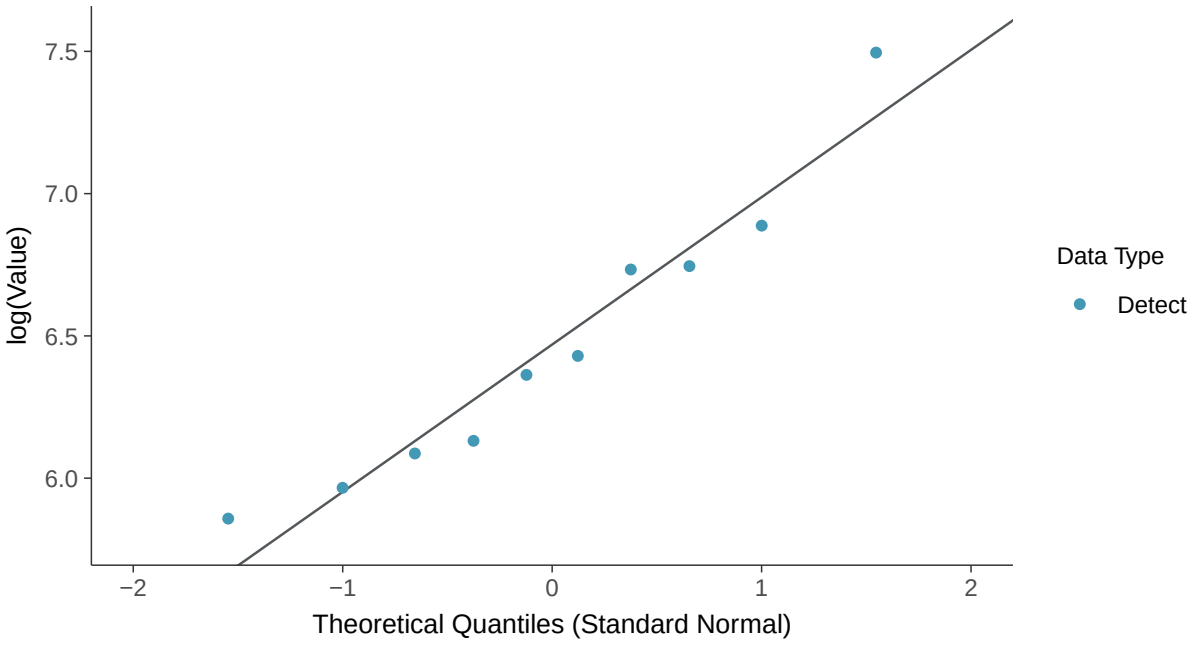
Normal Q-Q plot

Total Dissolved Solids, MW-38 (mg/L)



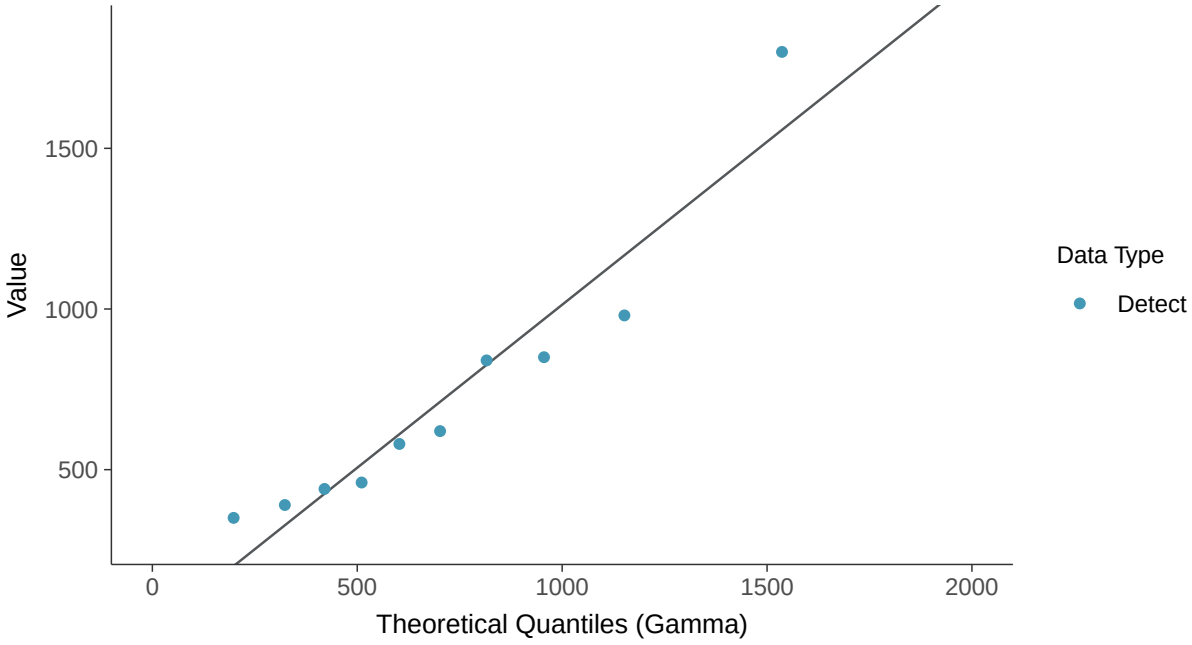
Lognormal Q-Q plot

Total Dissolved Solids, MW-38 (mg/L)



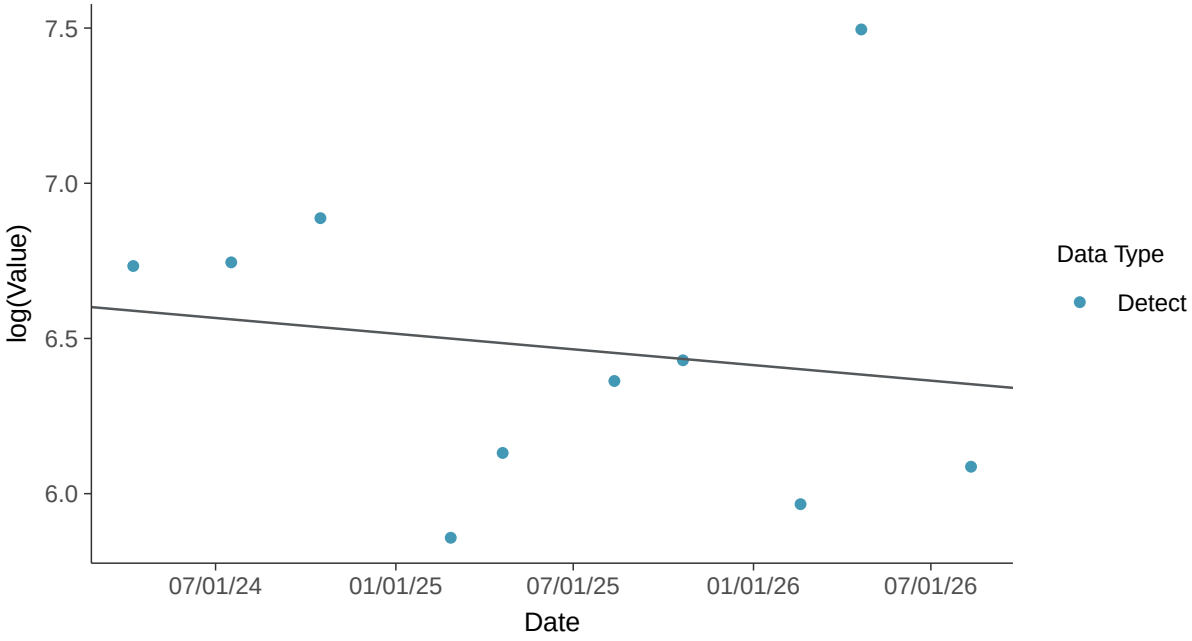
Gamma Q-Q plot

Total Dissolved Solids, MW-38 (mg/L)



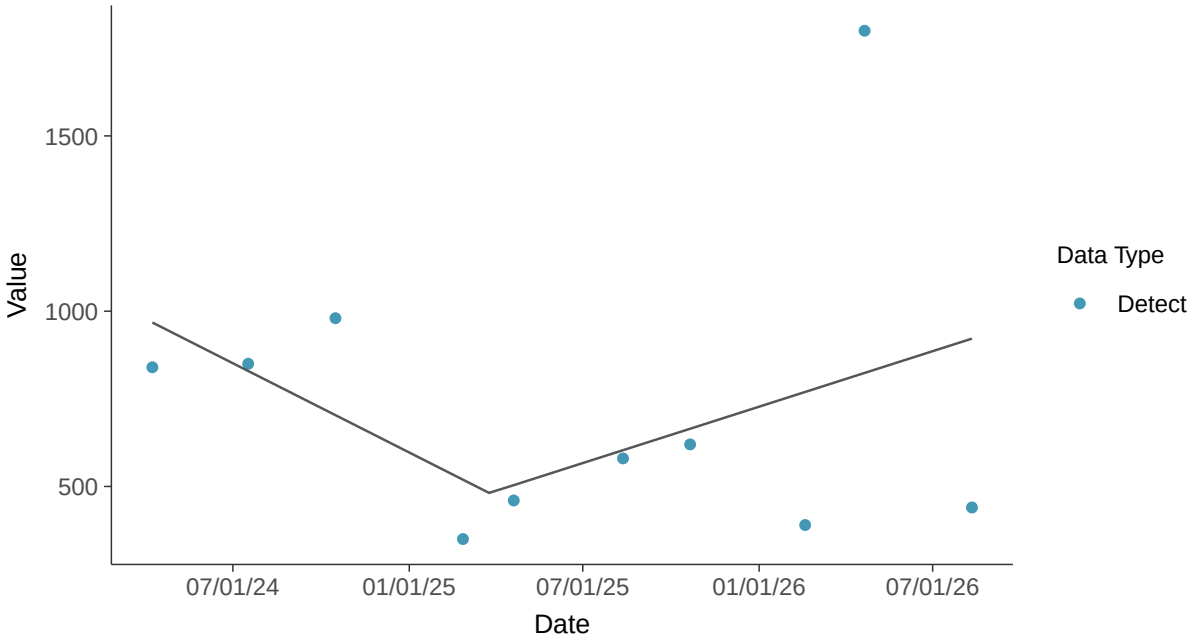
Trend Regression: Lognormal MLE

Total Dissolved Solids, MW-38 (mg/L)



Trend Regression: Piecewise Linear-Linear

Total Dissolved Solids, MW-38 (mg/L)

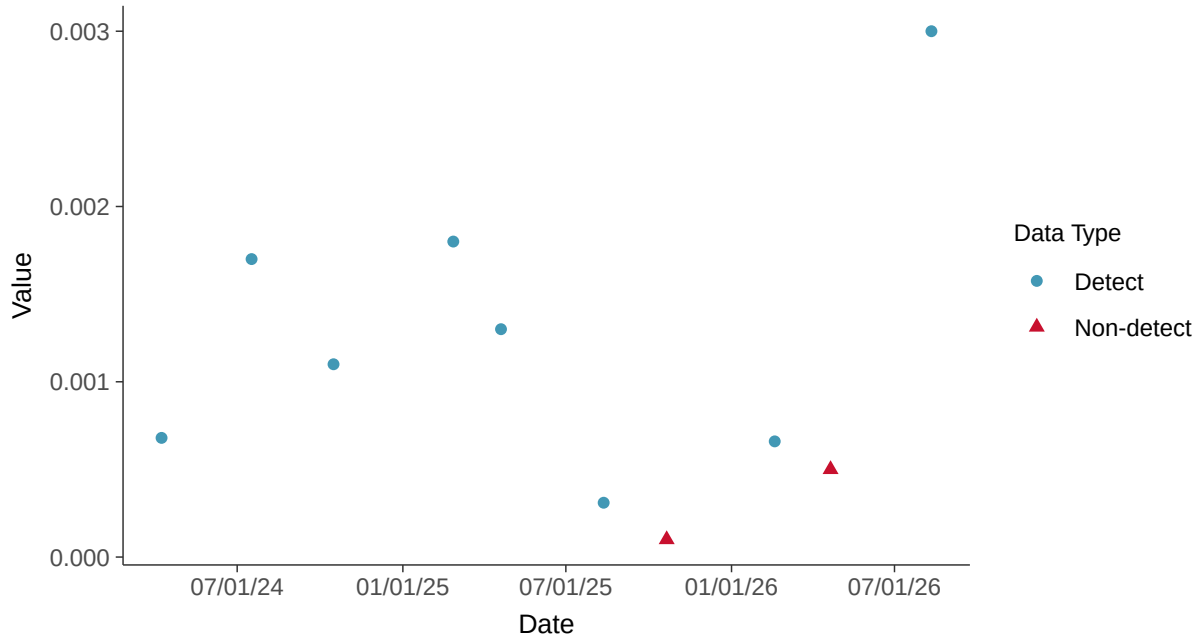


Appendix IV: Antimony, MW-38

ID: 48_2_4_101

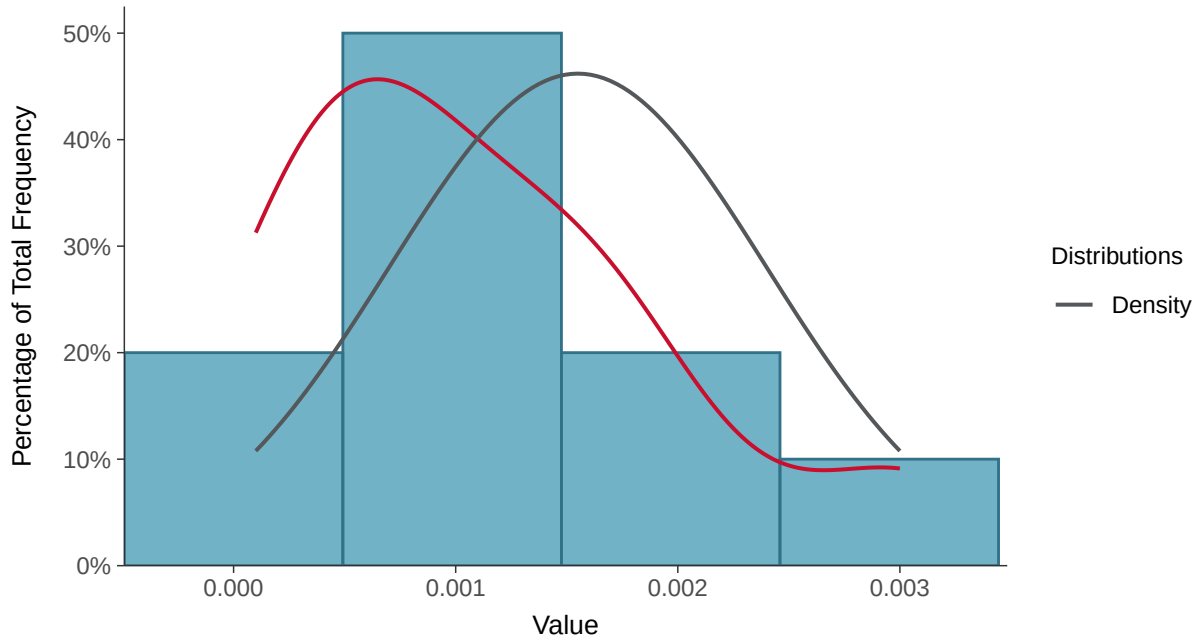
Scatter Plot

Antimony, MW-38 (mg/L)



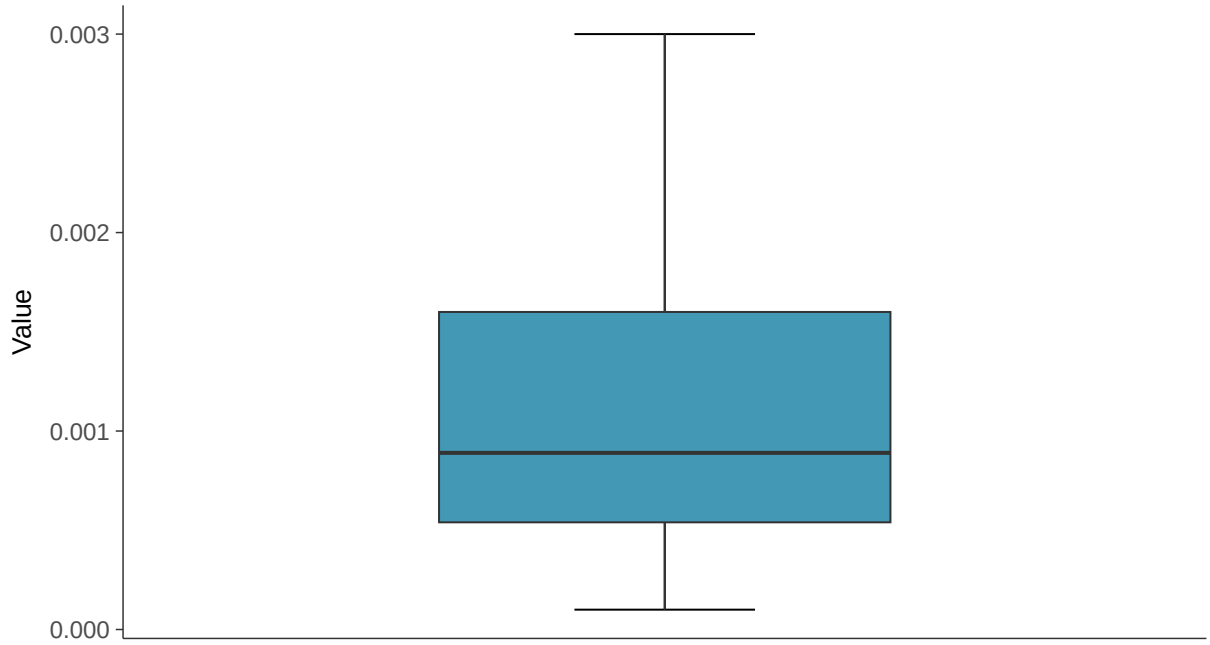
Histogram

Antimony, MW-38 (mg/L)



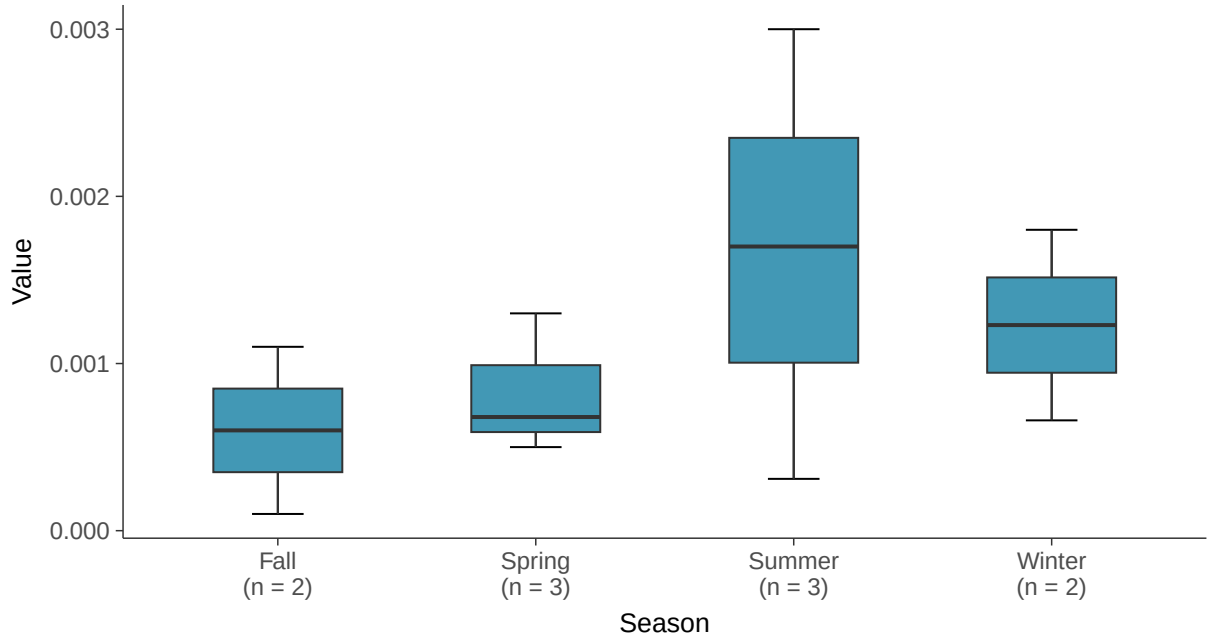
Boxplot

Antimony, MW-38 (mg/L)



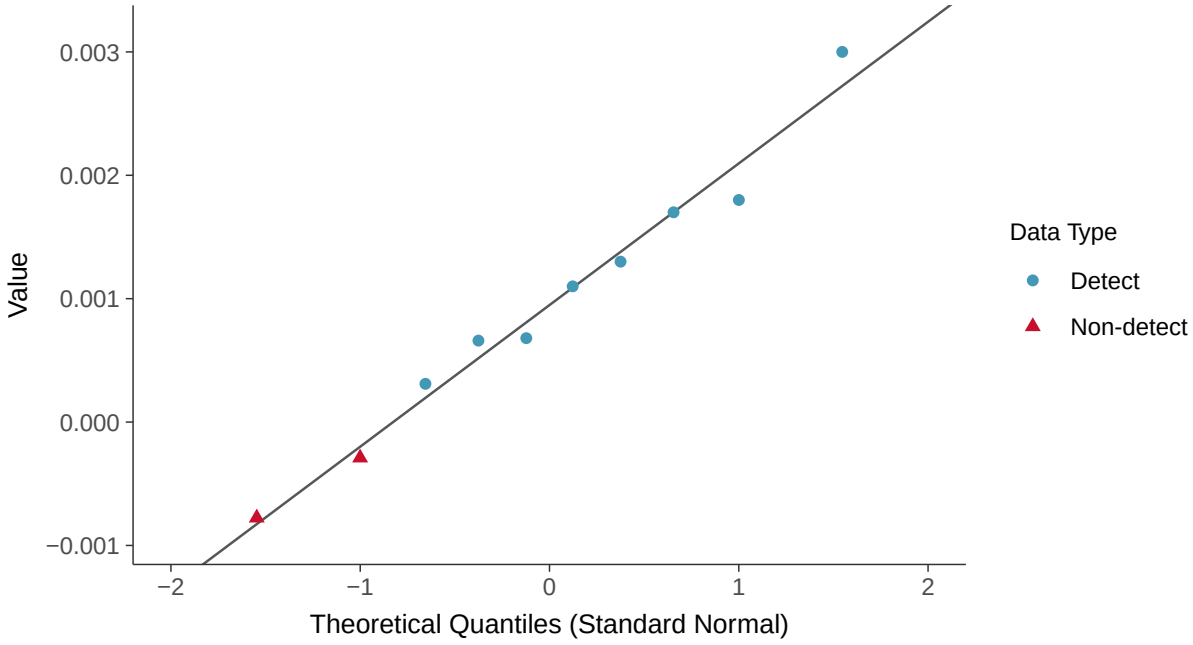
Boxplot by Season

Antimony, MW-38 (mg/L)



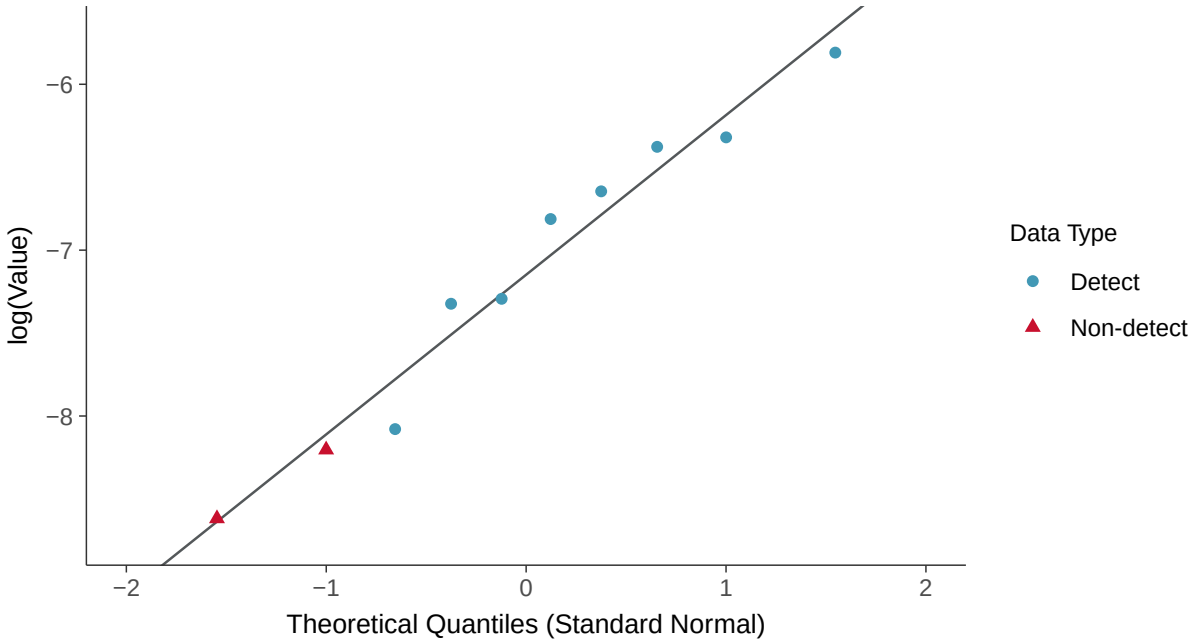
Normal Q-Q plot using ROS Imputed Estimates

Antimony, MW-38 (mg/L)



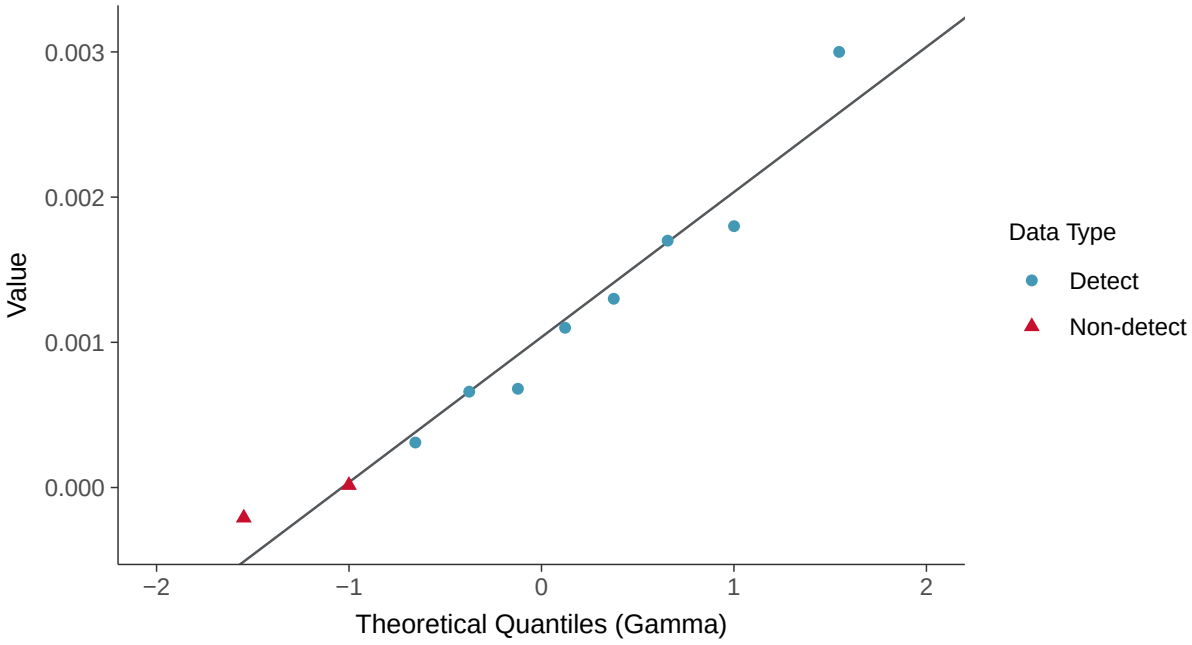
Lognormal Q-Q plot using ROS Imputed Estimates

Antimony, MW-38 (mg/L)



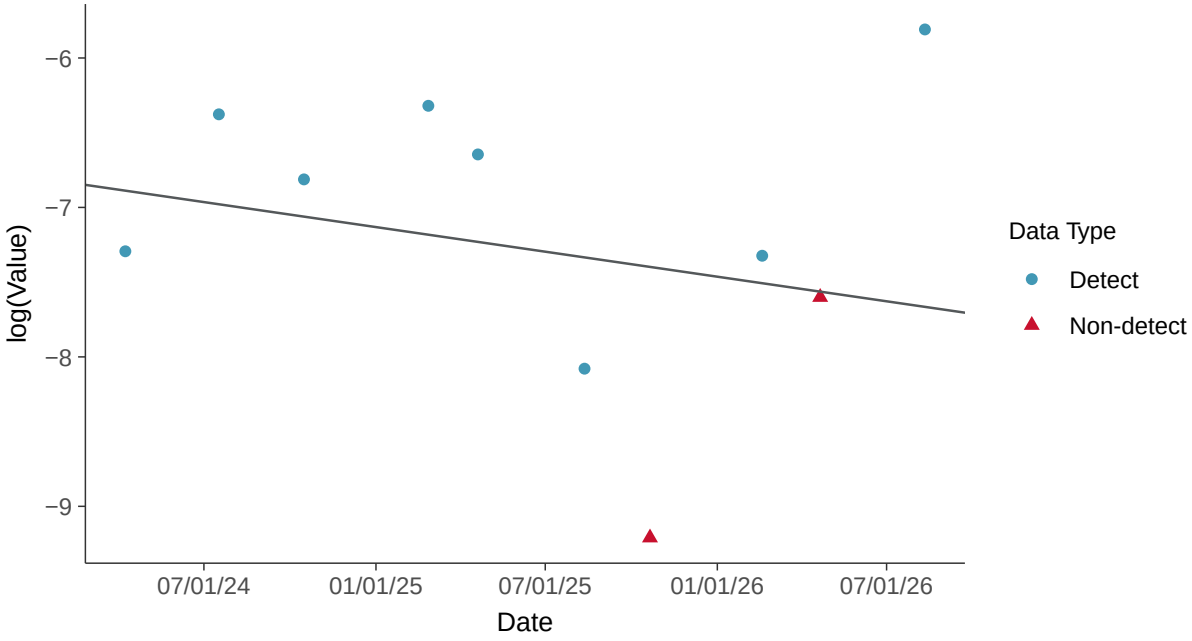
Gamma Q-Q plot using ROS Imputed Estimates

Antimony, MW-38 (mg/L)



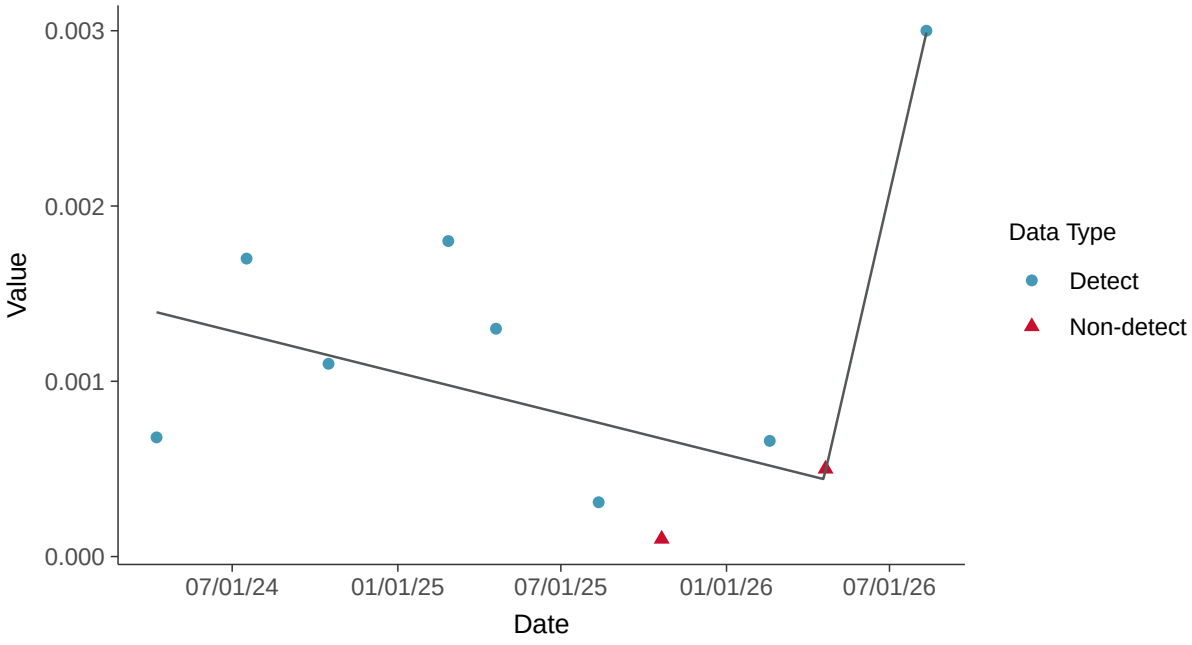
Trend Regression: Lognormal MLE

Antimony, MW-38 (mg/L)



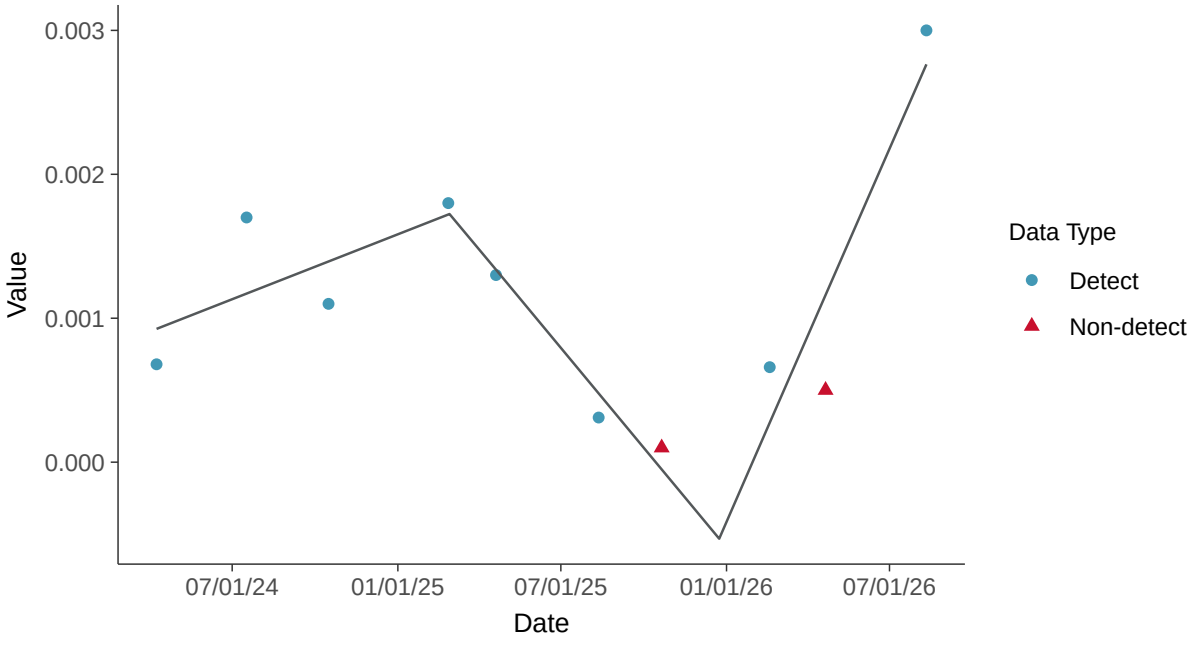
Trend Regression: Piecewise Linear-Linear

Antimony, MW-38 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Antimony, MW-38 (mg/L)

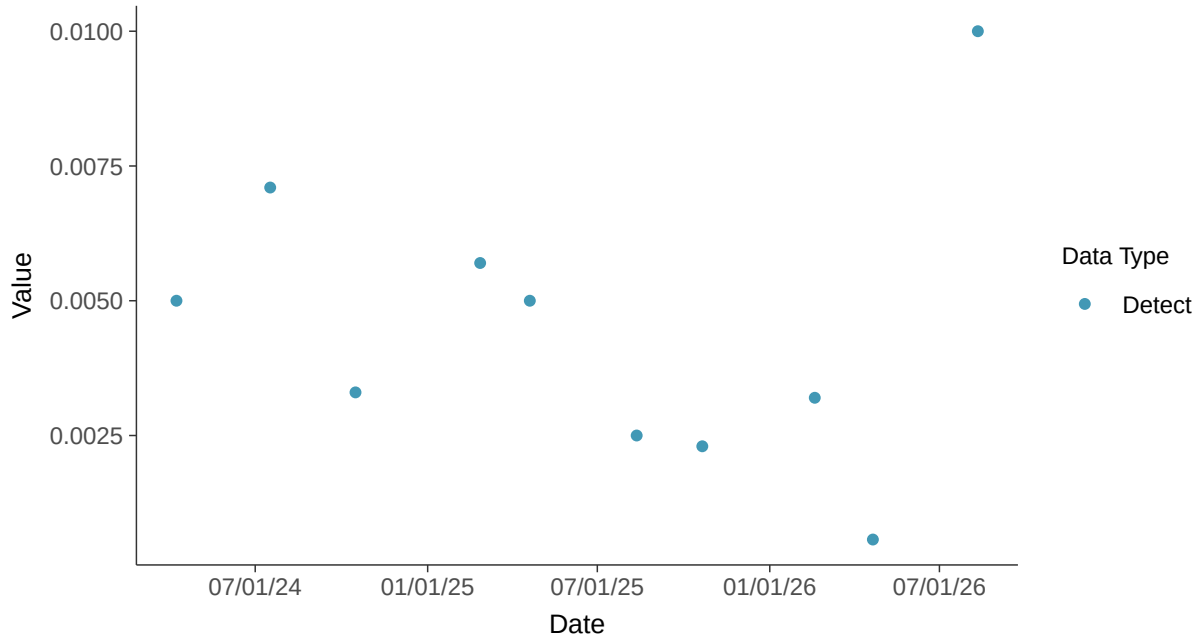


Appendix IV: Arsenic, MW-38

ID: 48_2_4_102

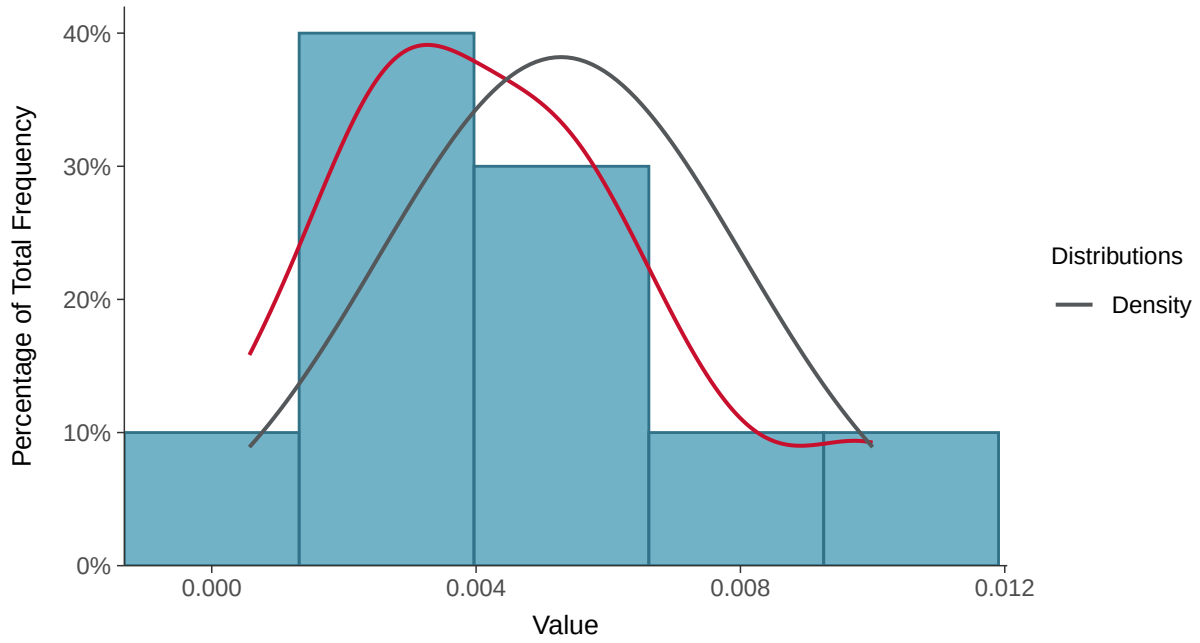
Scatter Plot

Arsenic, MW-38 (mg/L)



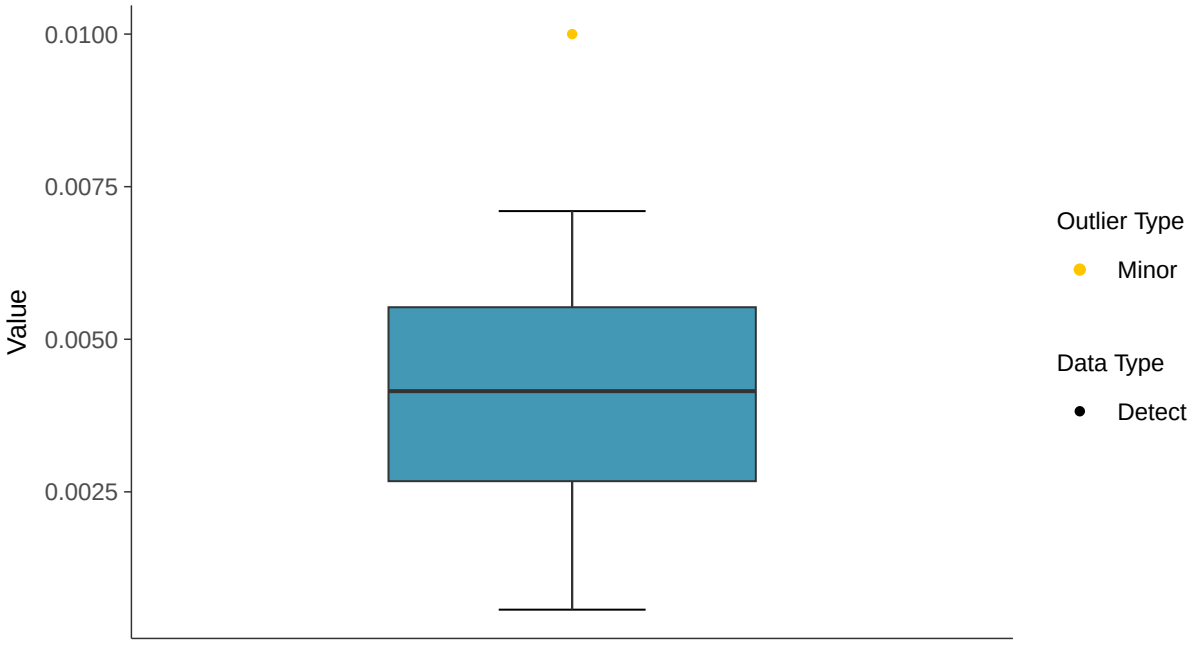
Histogram

Arsenic, MW-38 (mg/L)



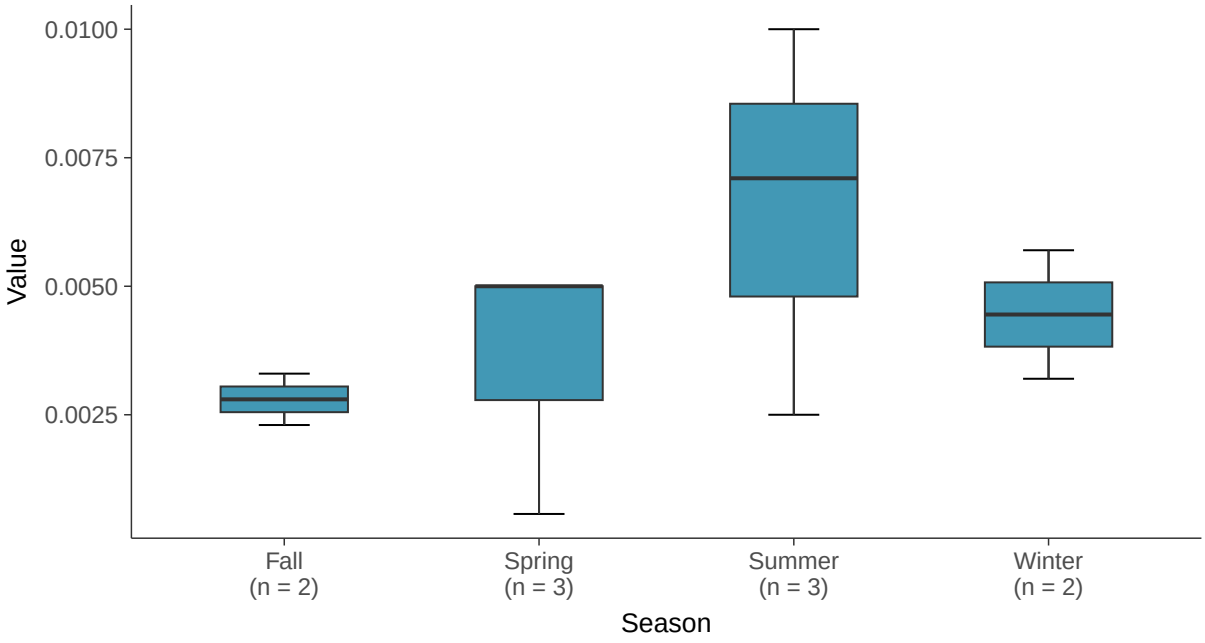
Boxplot

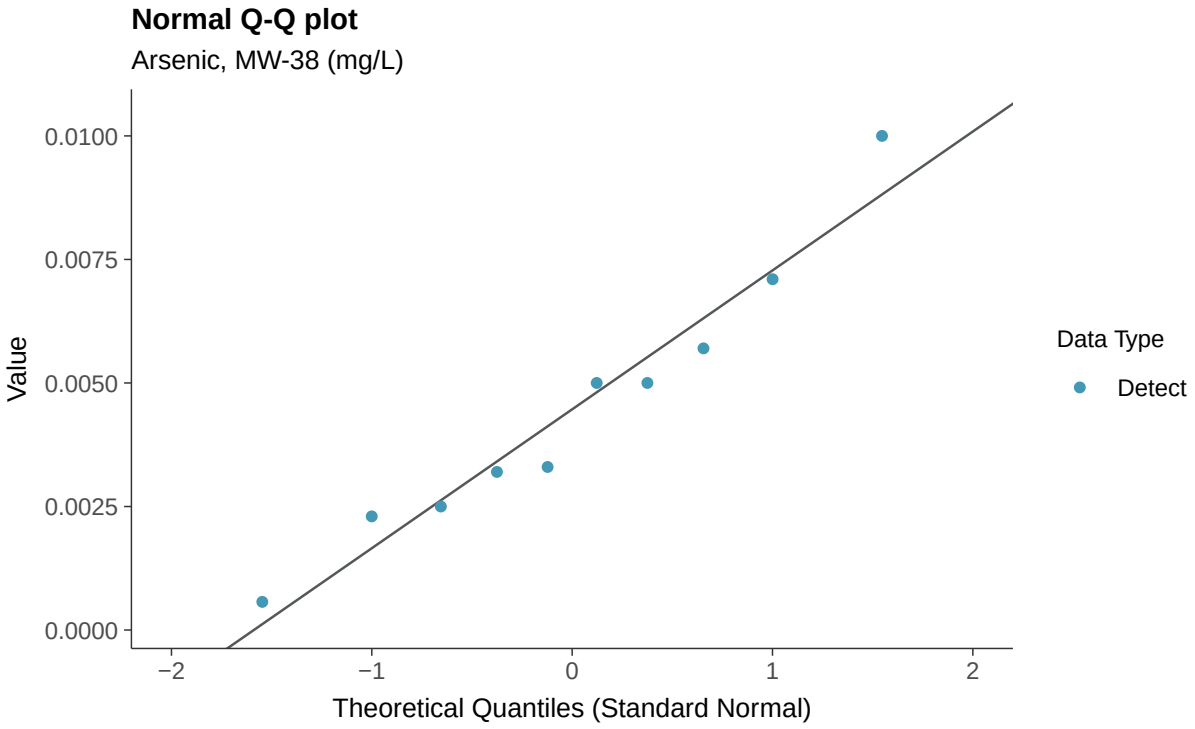
Arsenic, MW-38 (mg/L)

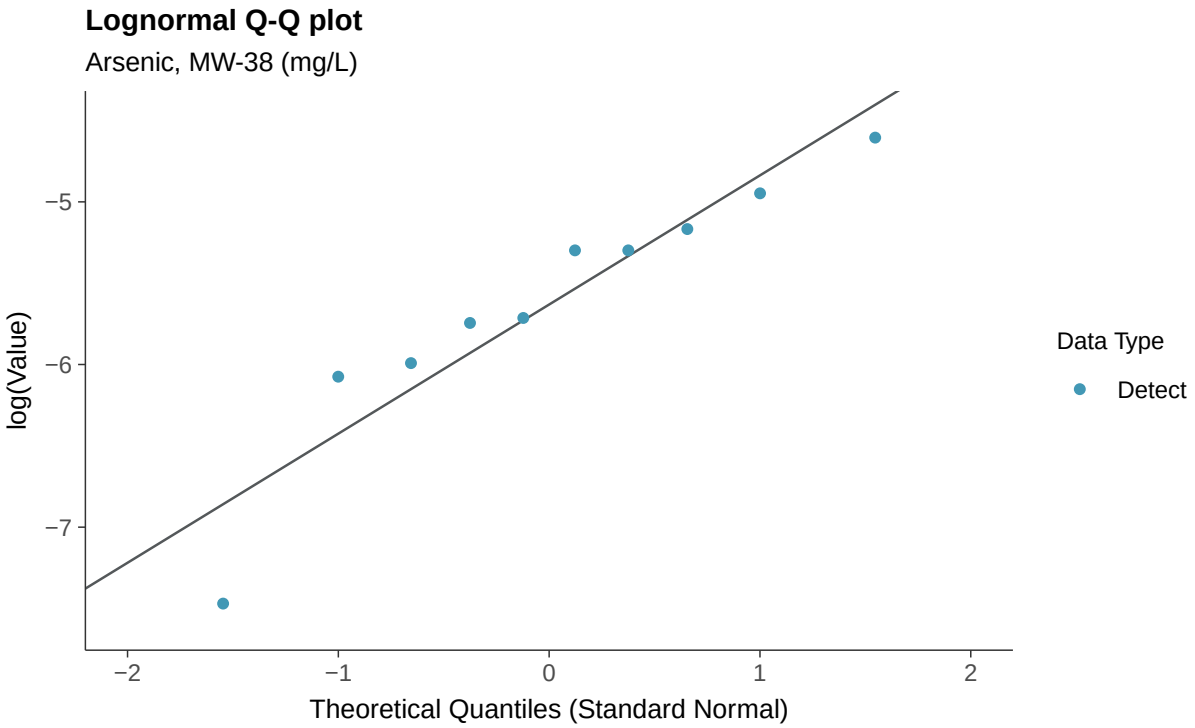


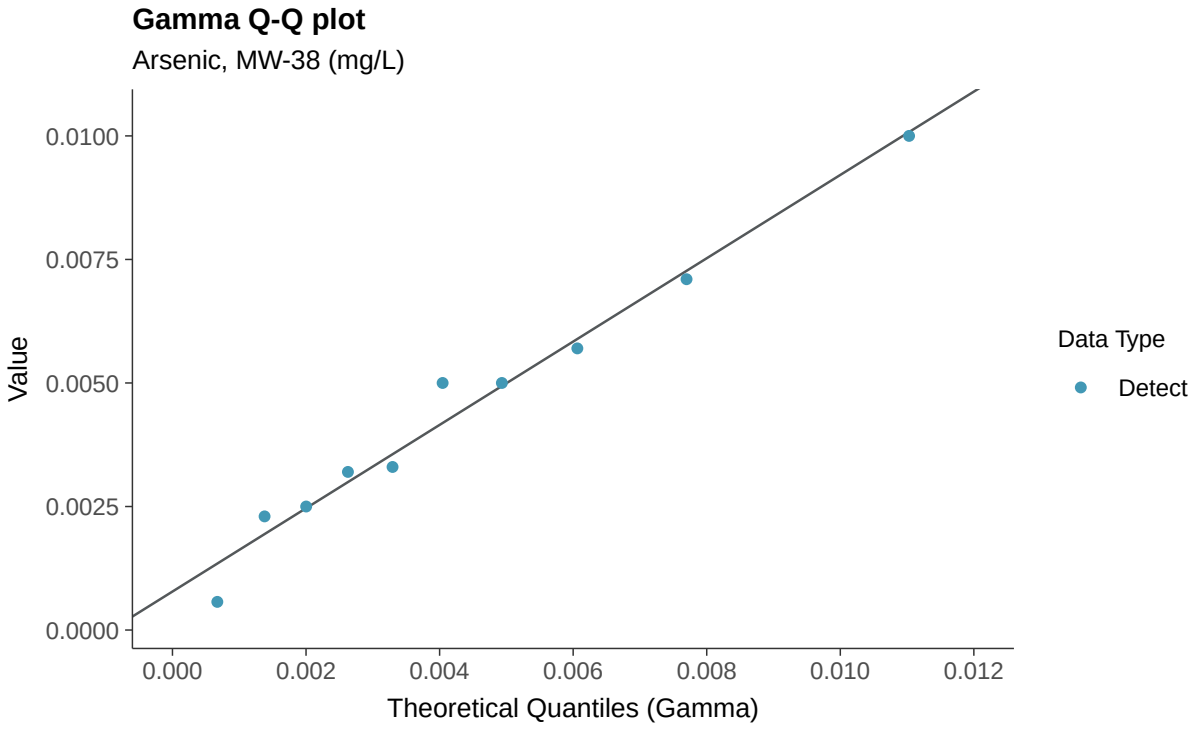
Boxplot by Season

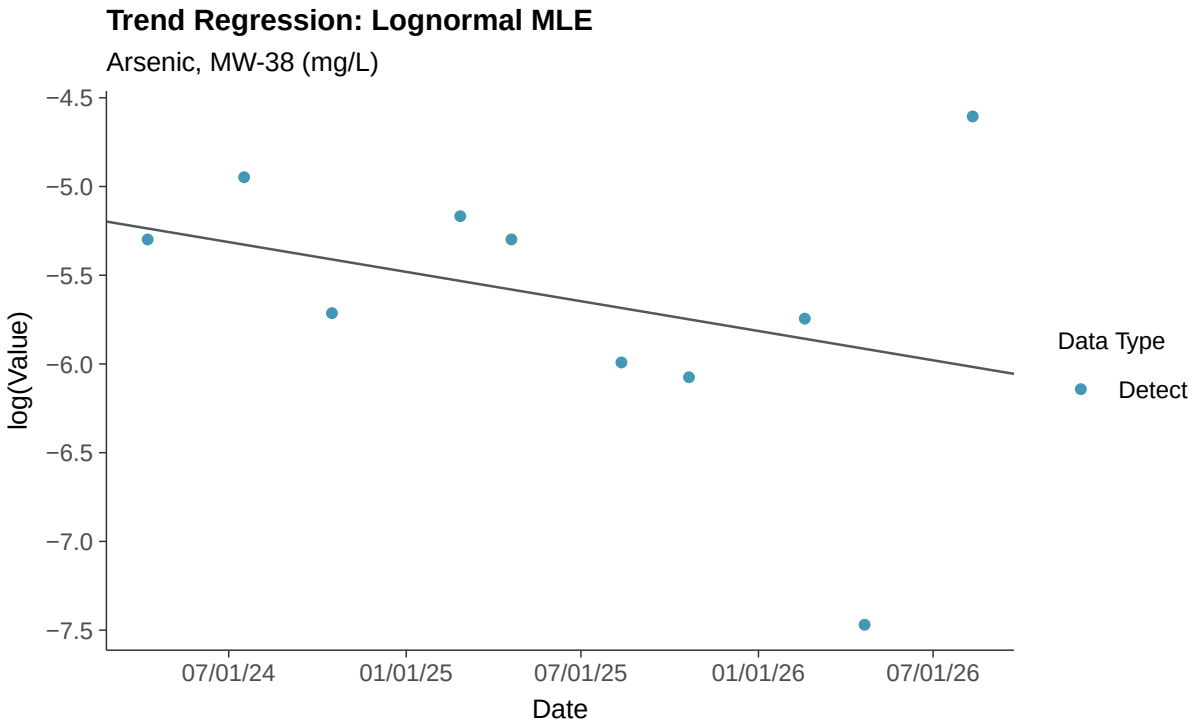
Arsenic, MW-38 (mg/L)




Normal Q-Q plot
Arsenic, MW-38 (mg/L)
Value
0.0100
0.0075
0.0050
0.0025
0.0000
−2
−1
0
1
2
Theoretical Quantiles (Standard Normal)
Data Type
Detect


Lognormal Q-Q plot
Arsenic, MW-38 (mg/L)
log(Value)
−5
−6
−7
−2
−1
0
1
2
Theoretical Quantiles (Standard Normal)
Data Type
Detect


Gamma Q-Q plot
Arsenic, MW-38 (mg/L)
Value
0.0100
0.0075
0.0050
0.0025
0.0000
0.000
0.002
0.004
0.006
0.008
0.010
0.012
Theoretical Quantiles (Gamma)
Data Type
Detect

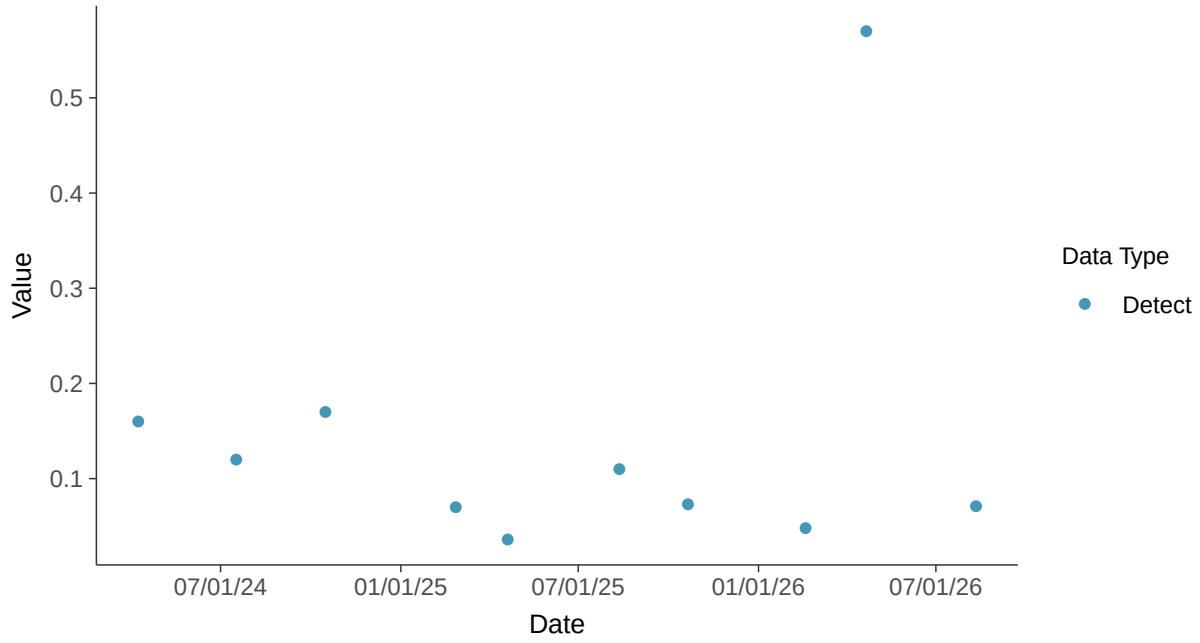

Trend Regression: Lognormal MLE
Arsenic, MW-38 (mg/L)
log(Value)
−4.5
−5.0
−5.5
−6.0
−6.5
−7.0
−7.5
07/01/24
01/01/25
07/01/25
01/01/26
07/01/26
Date
Data Type
Detect

Appendix IV: Barium, MW-38

ID: 48_2_4_103

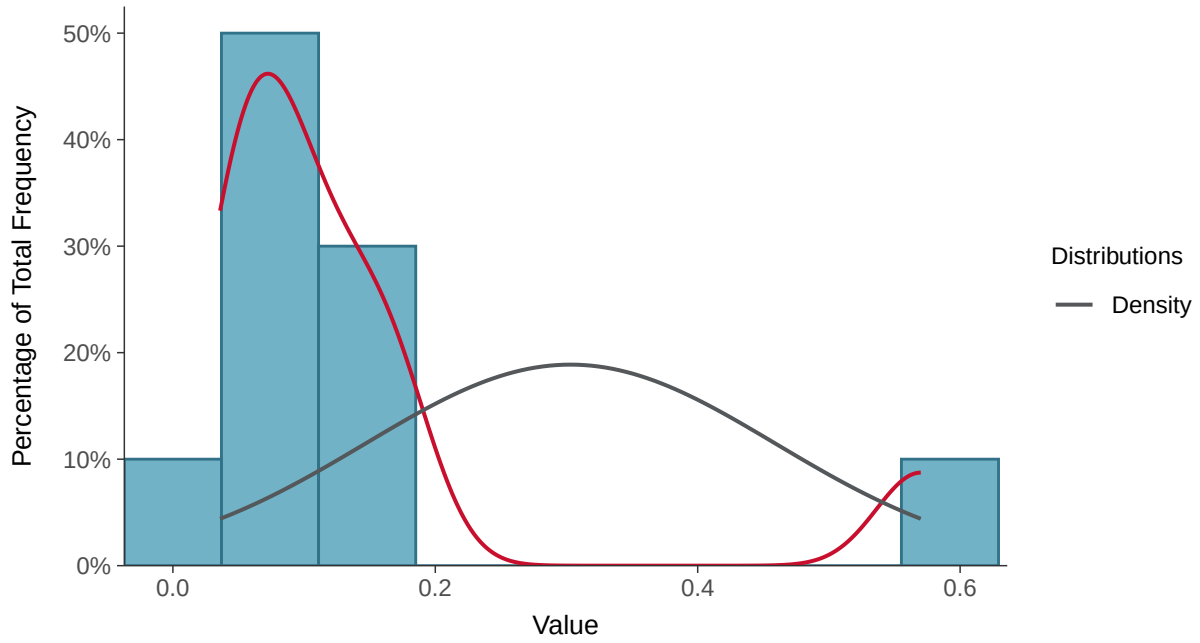
Scatter Plot

Barium, MW-38 (mg/L)



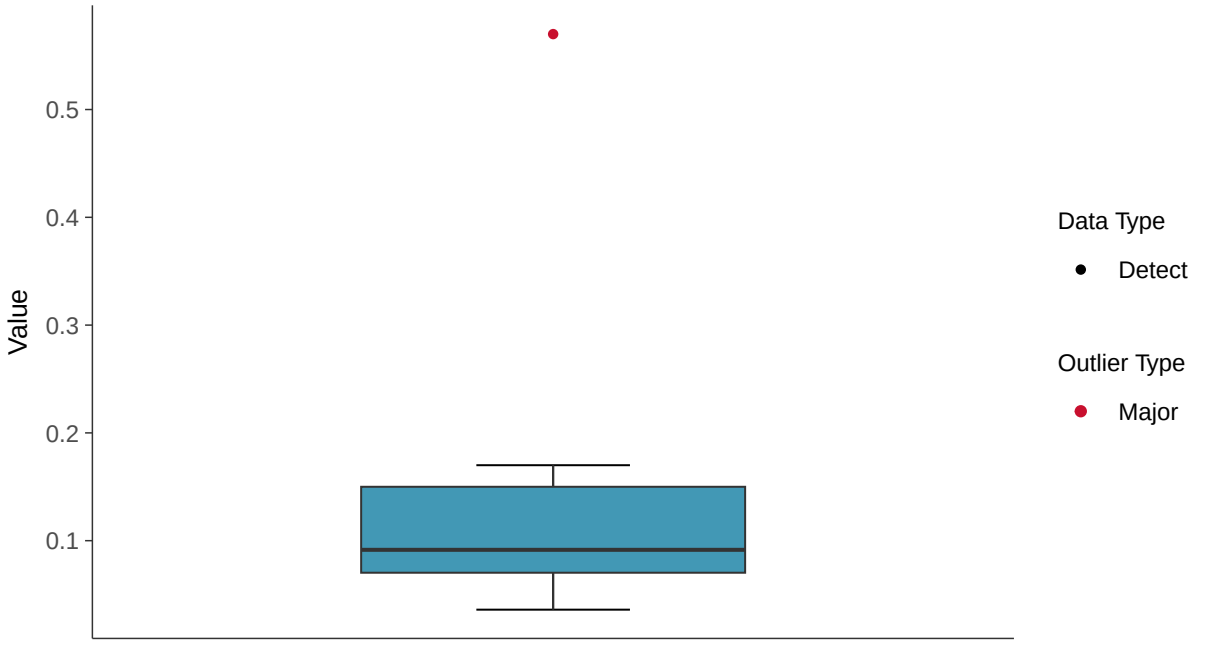
Histogram

Barium, MW-38 (mg/L)



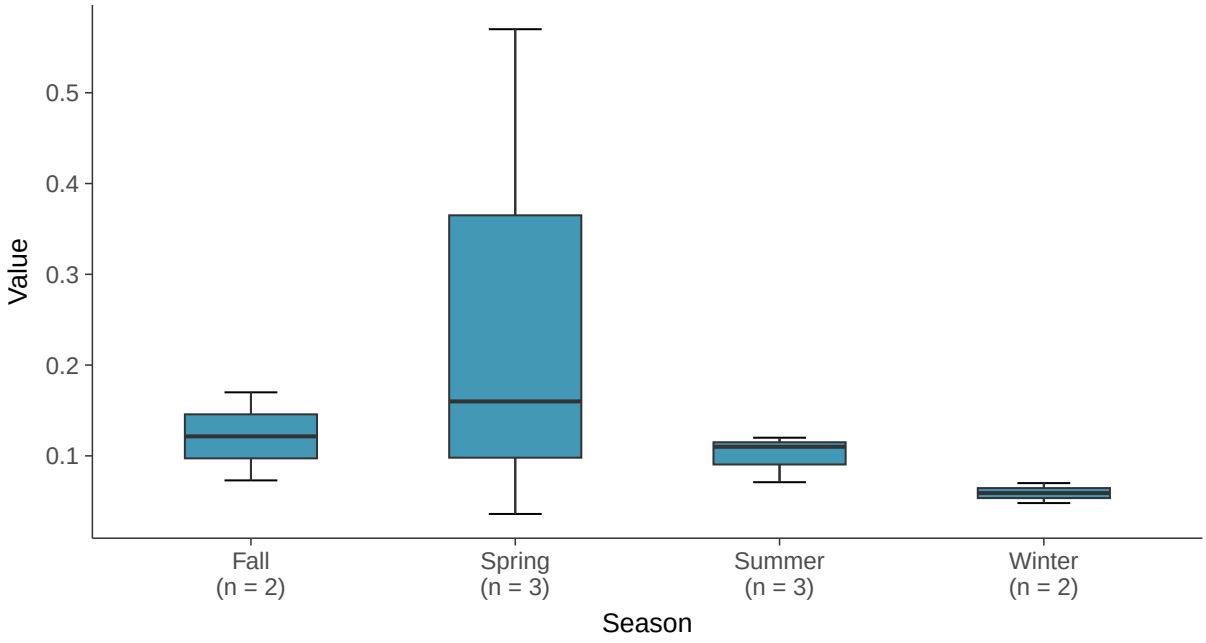
Boxplot

Barium, MW-38 (mg/L)



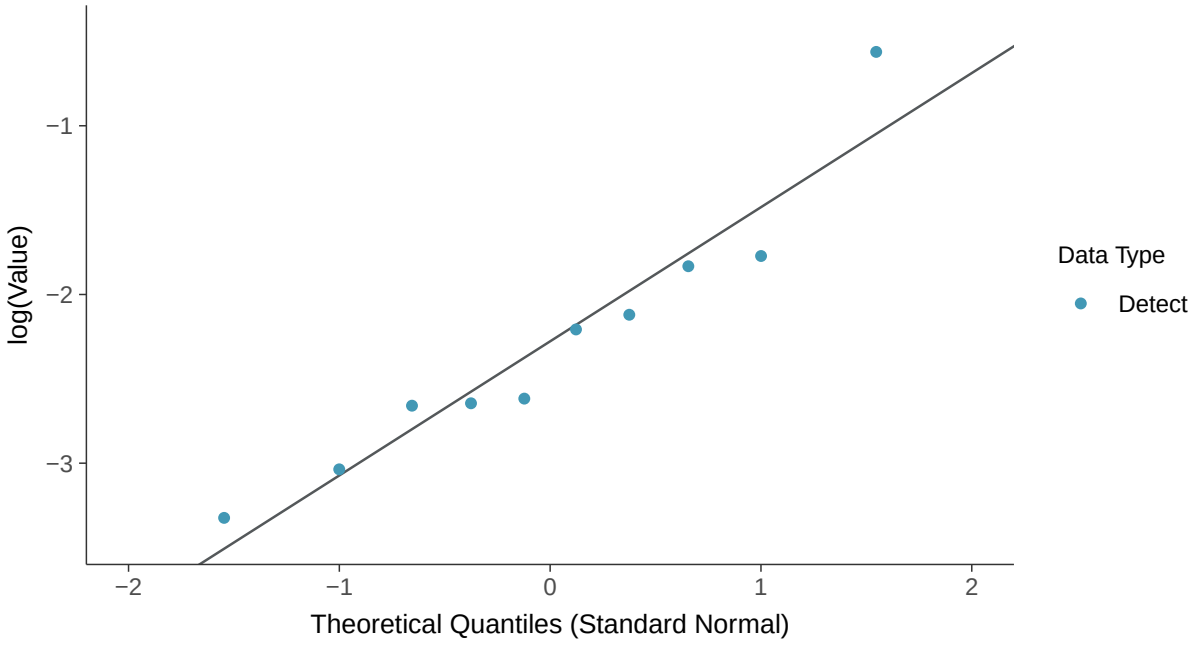
Boxplot by Season

Barium, MW-38 (mg/L)



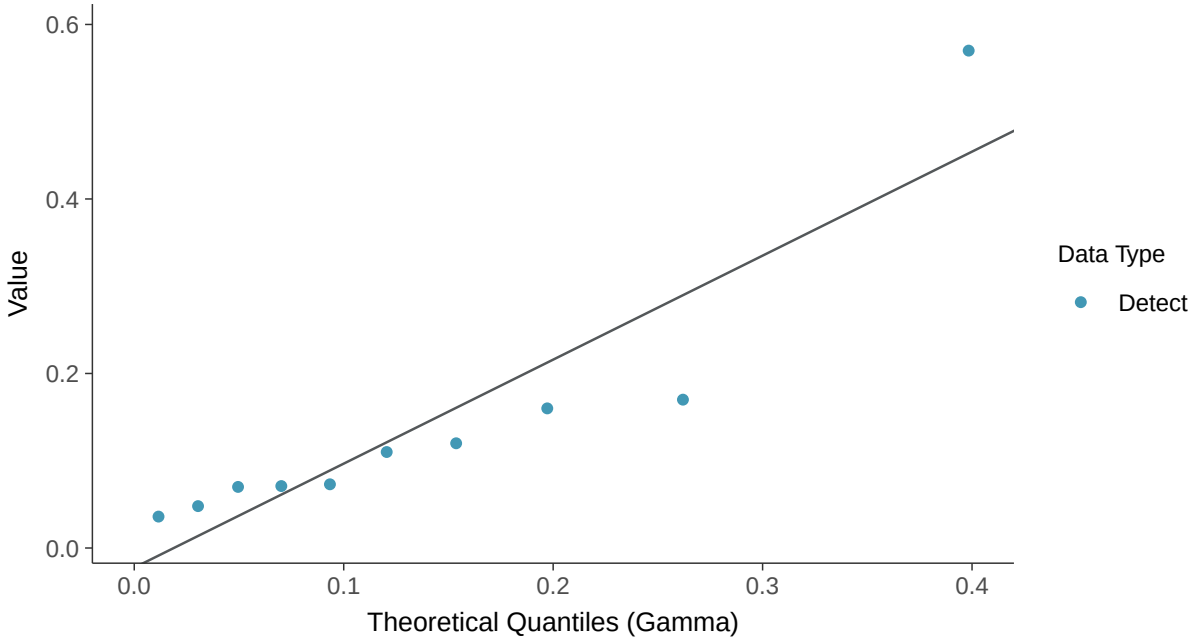
Lognormal Q-Q plot

Barium, MW-38 (mg/L)



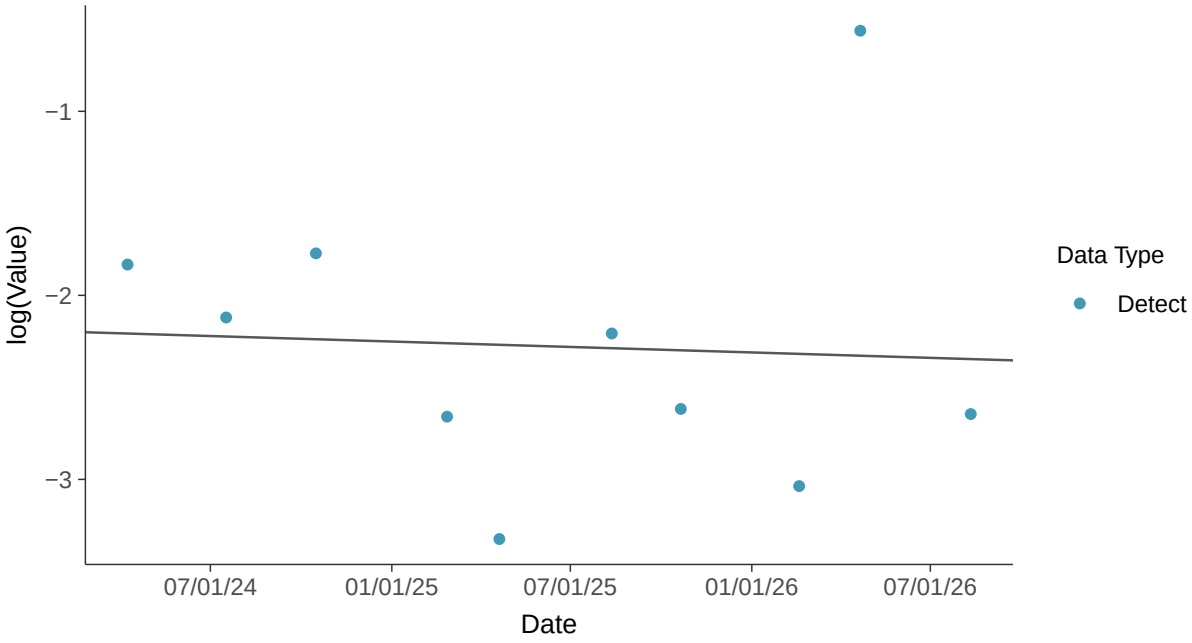
Gamma Q-Q plot

Barium, MW-38 (mg/L)



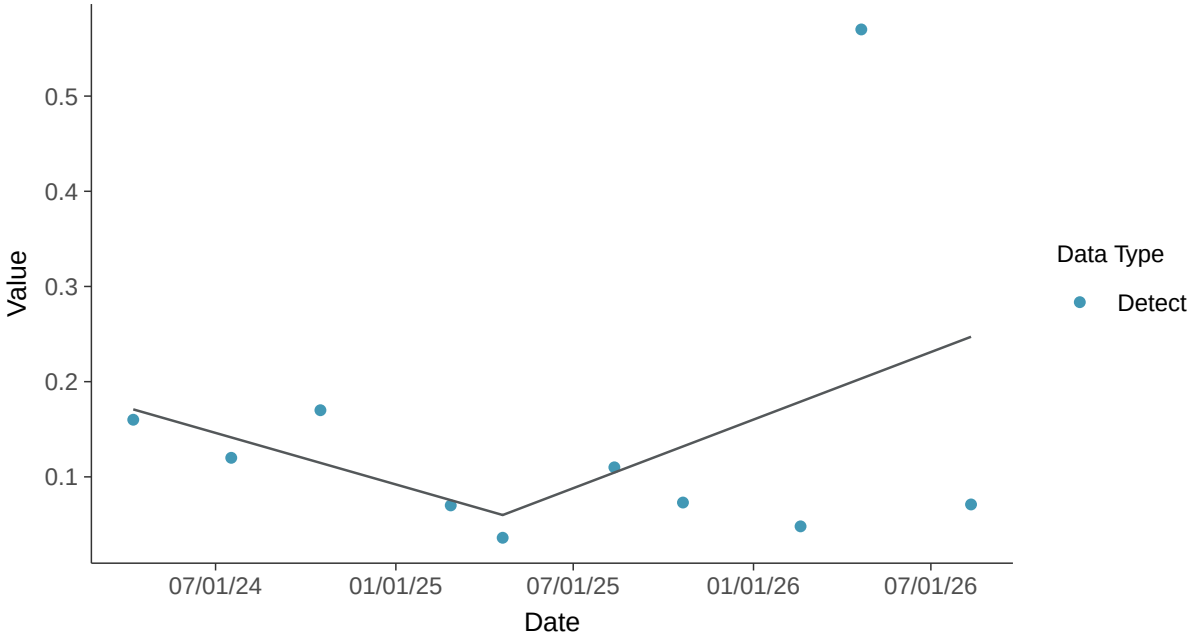
Trend Regression: Lognormal MLE

Barium, MW-38 (mg/L)



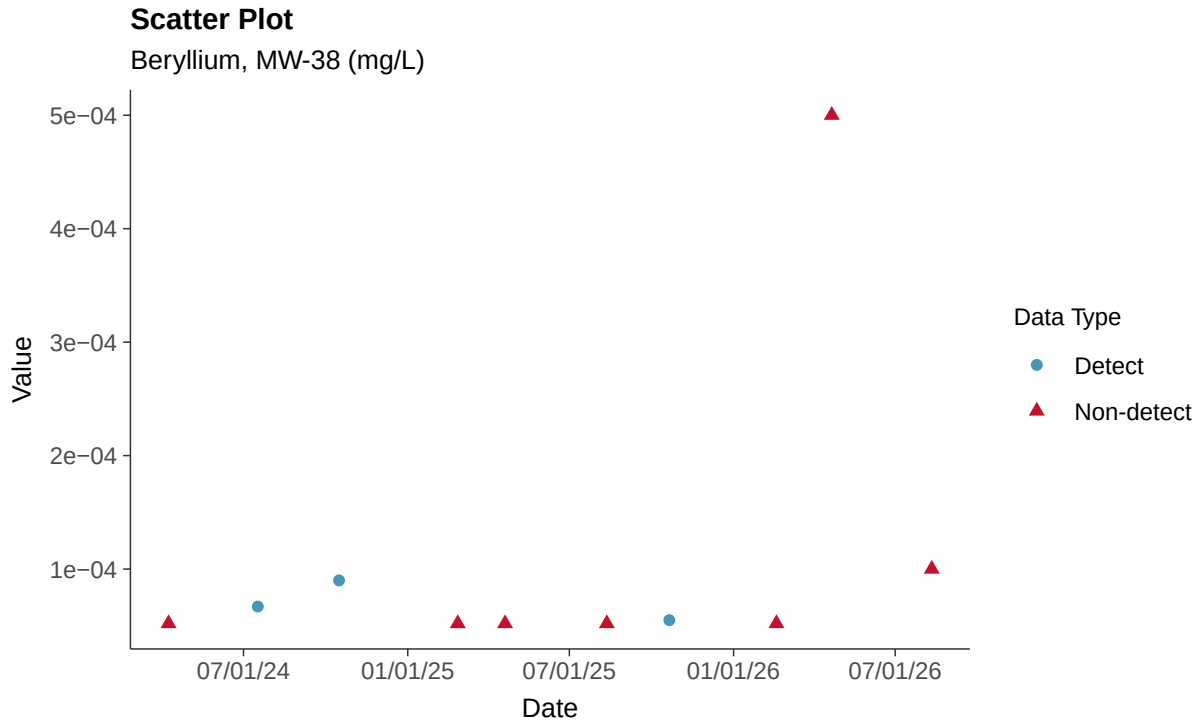
Trend Regression: Piecewise Linear-Linear

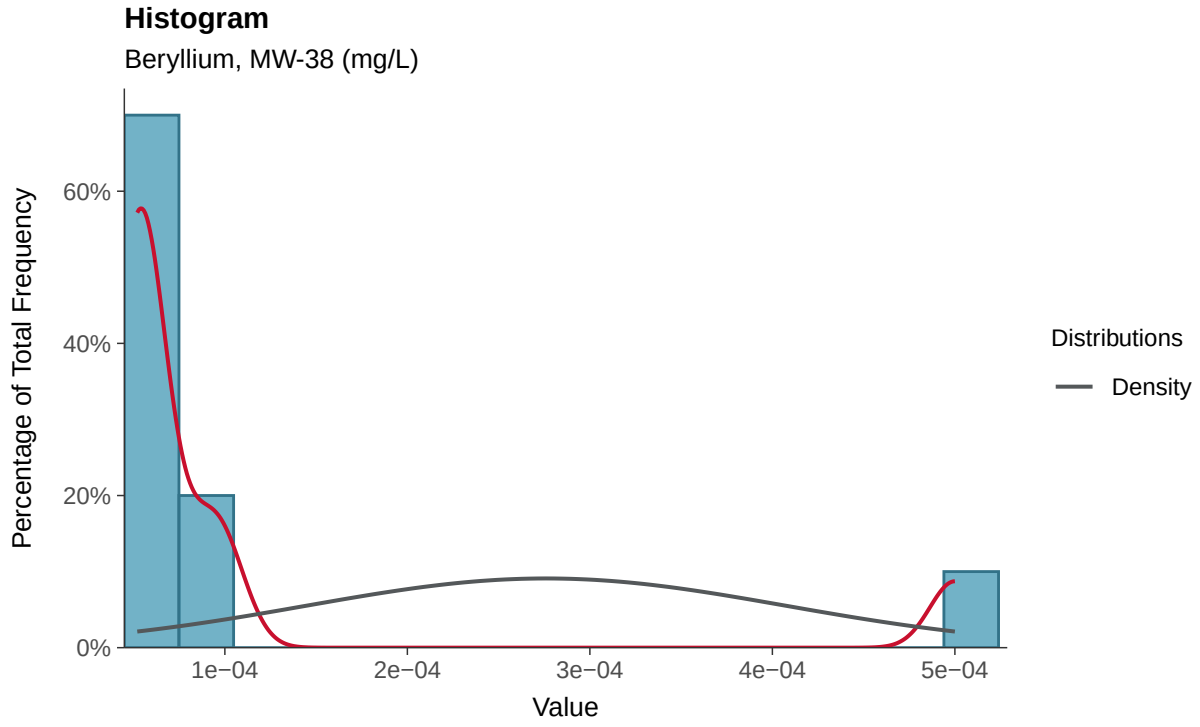
Barium, MW-38 (mg/L)



Appendix IV: Beryllium, MW-38

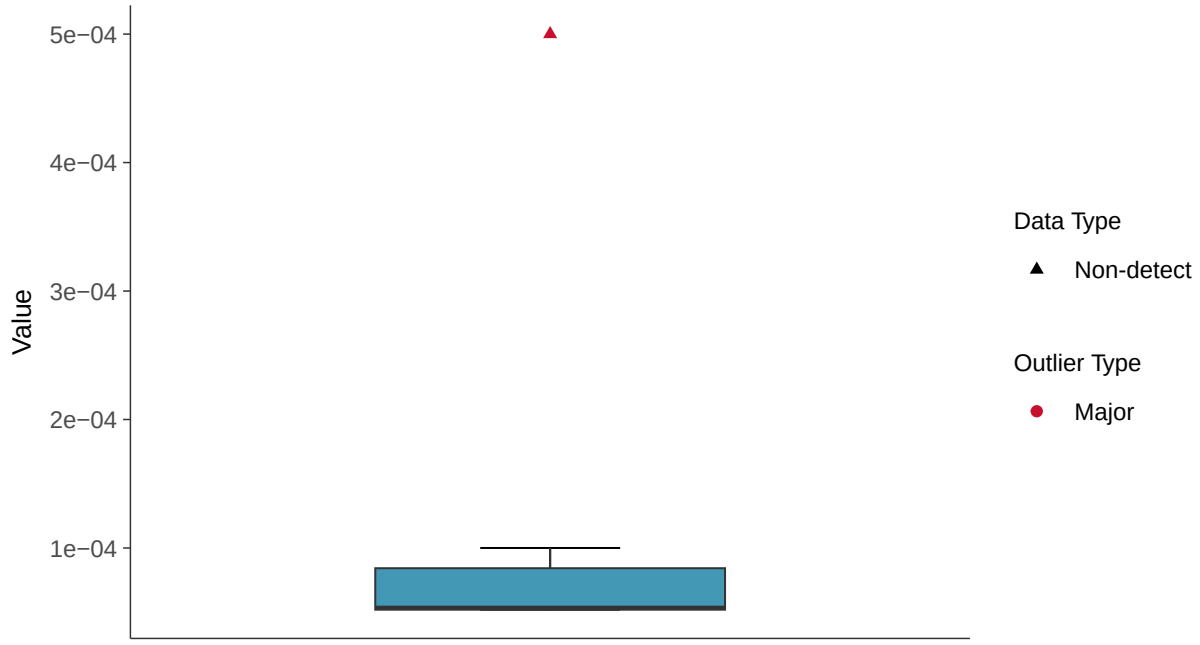
ID: 48_2_4_104





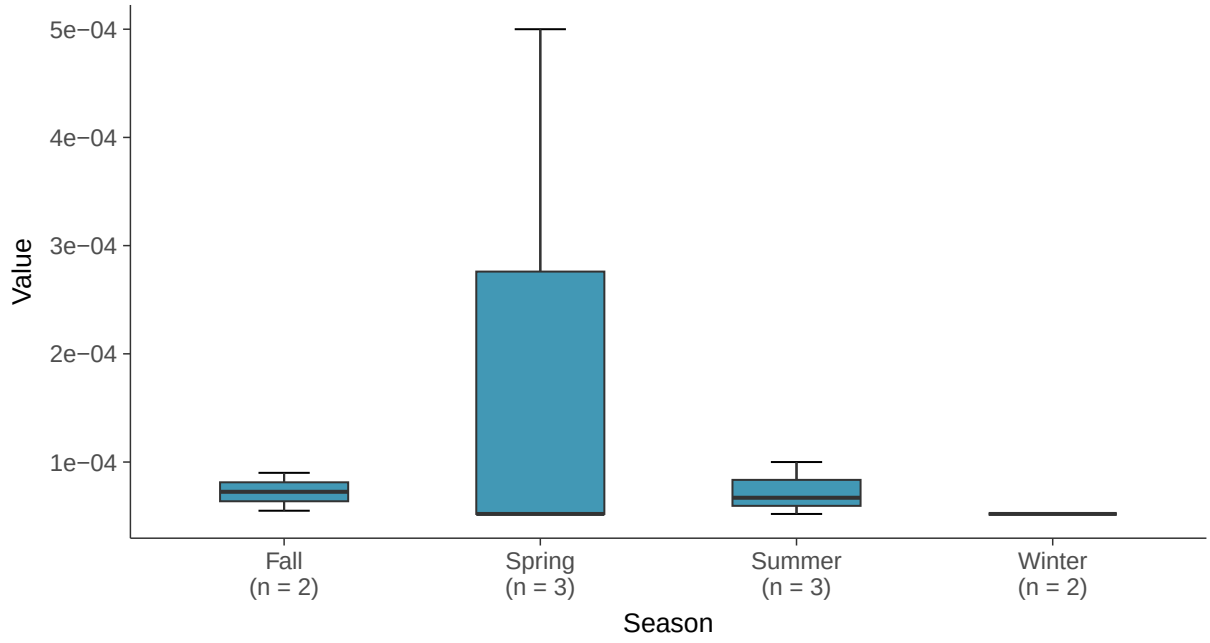
Boxplot

Beryllium, MW-38 (mg/L)



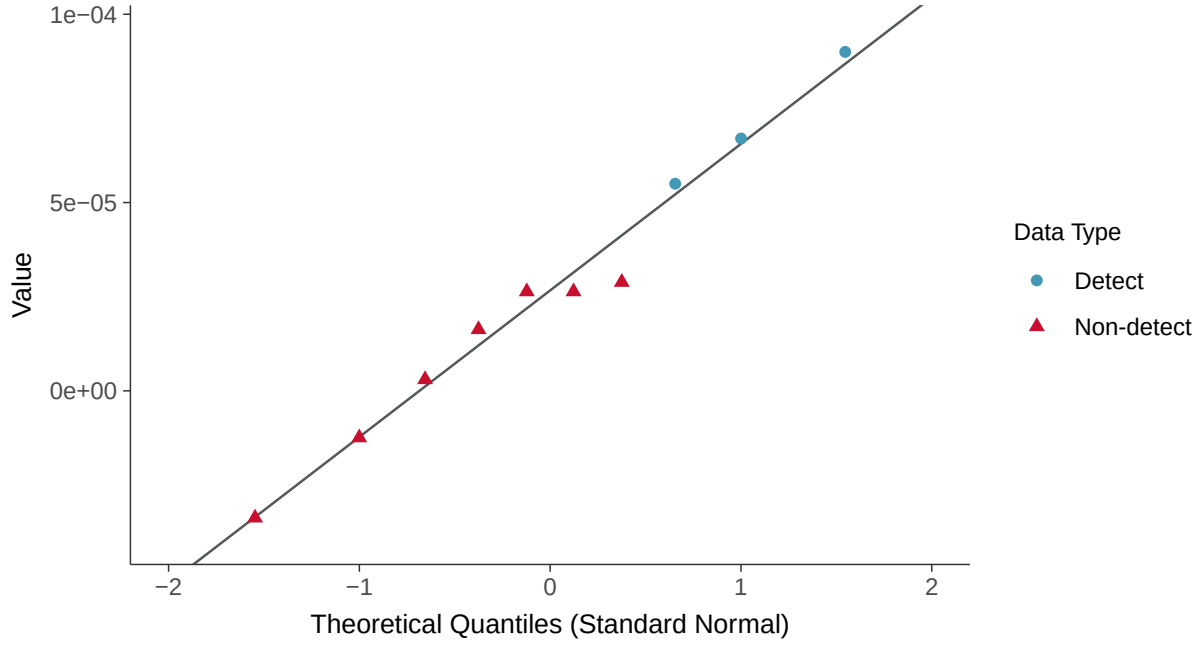
Boxplot by Season

Beryllium, MW-38 (mg/L)



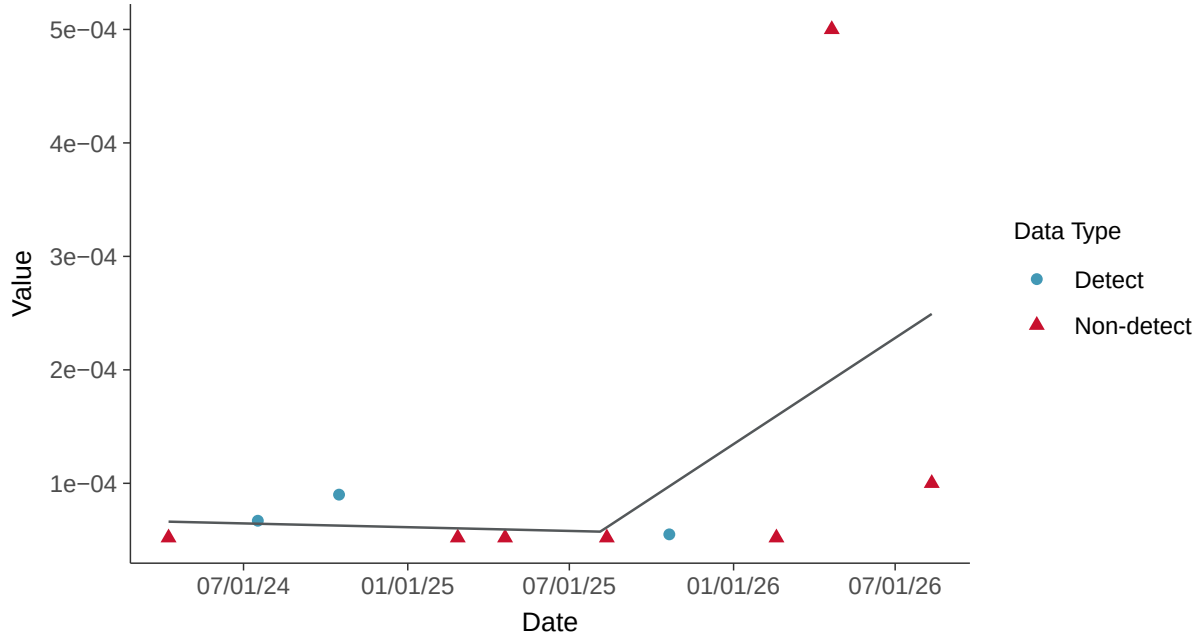
Normal Q-Q plot using ROS Imputed Estimates

Beryllium, MW-38 (mg/L)



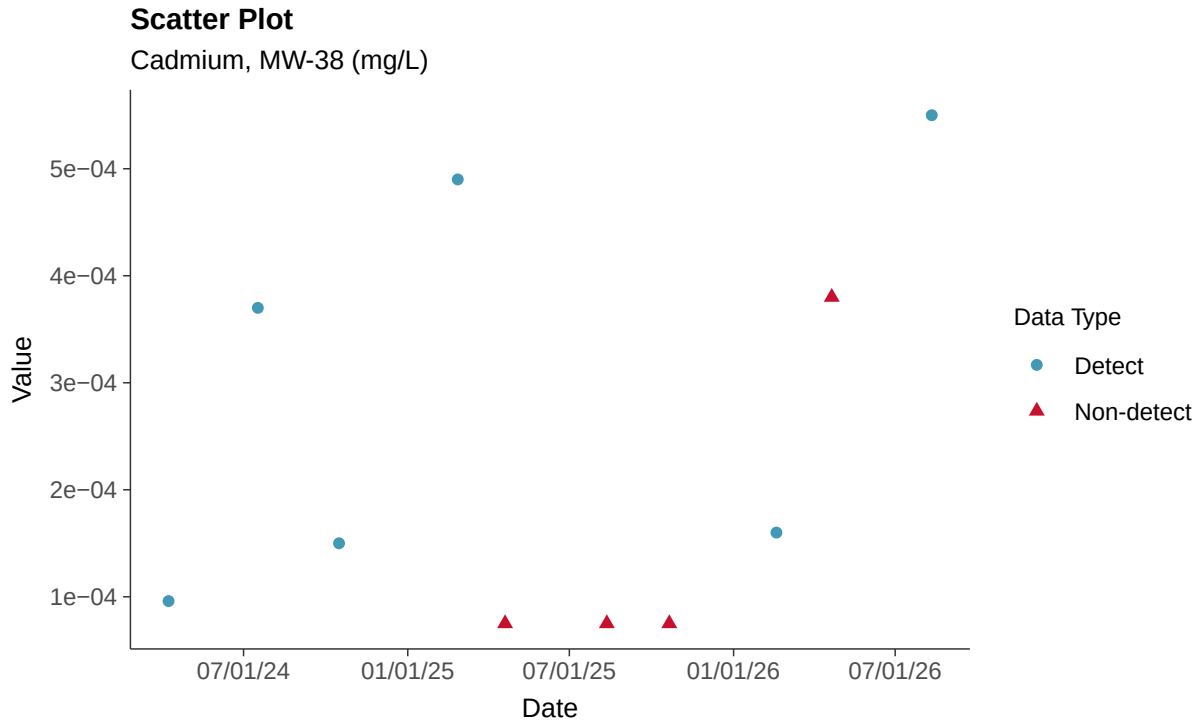
Trend Regression: Piecewise Linear-Linear

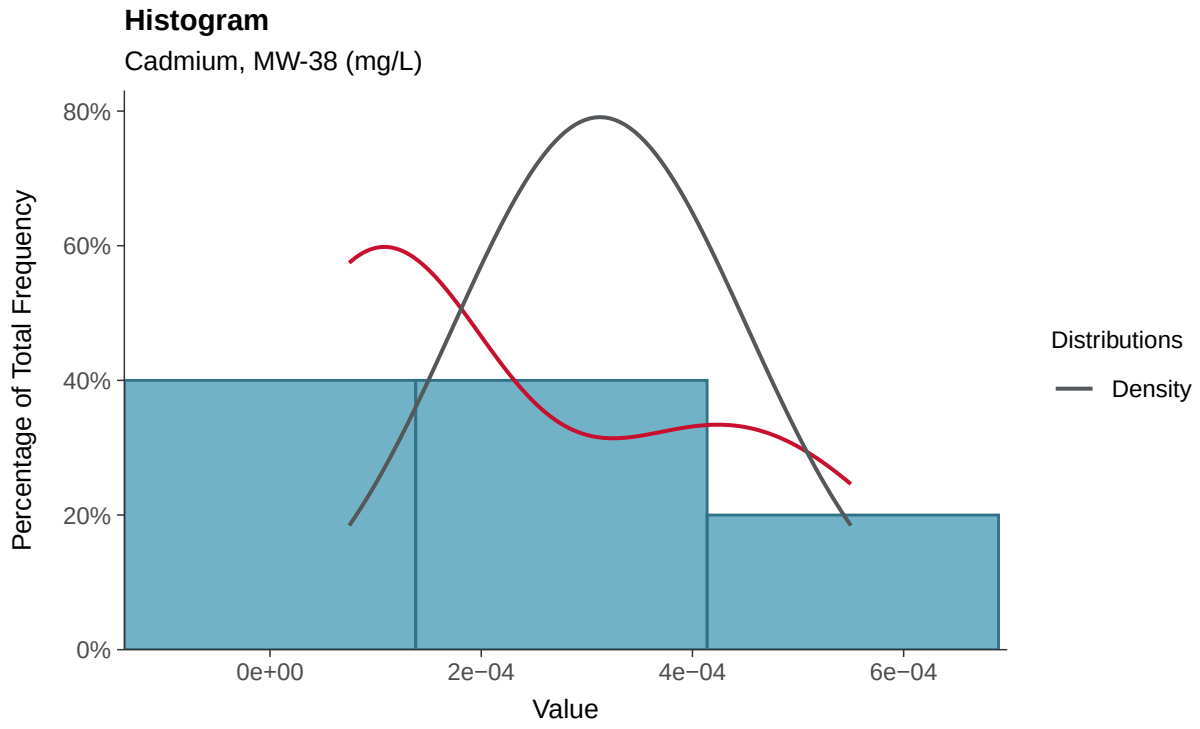
Beryllium, MW-38 (mg/L)



Appendix IV: Cadmium, MW-38

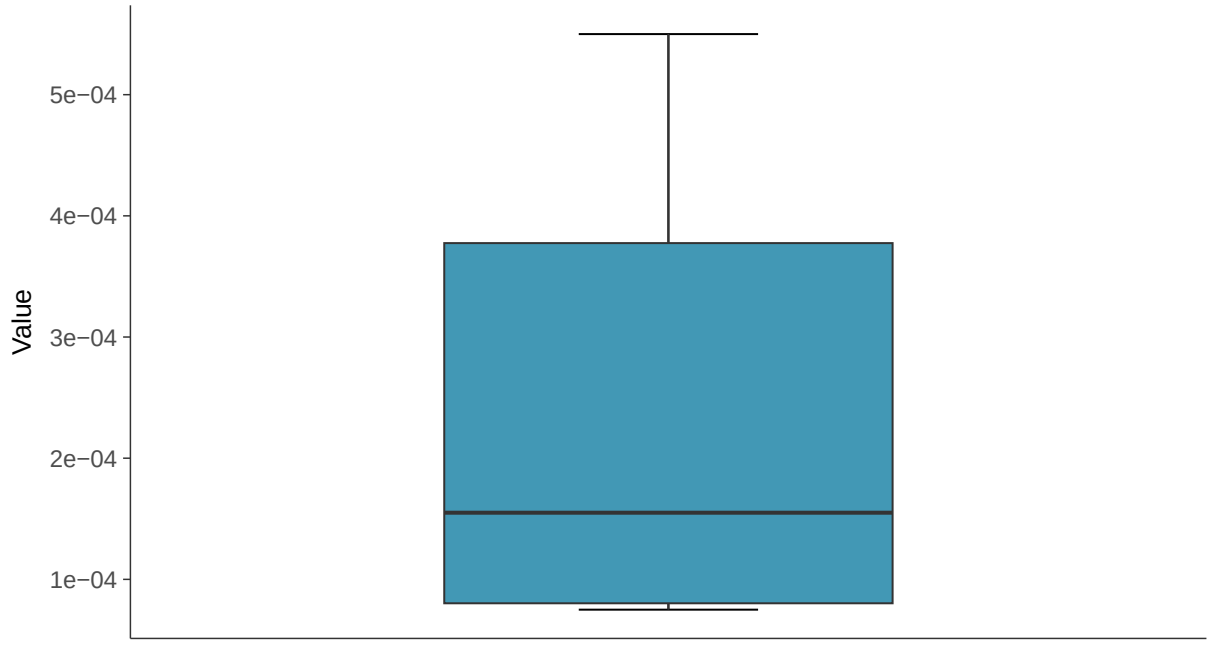
ID: 48_2_4_106





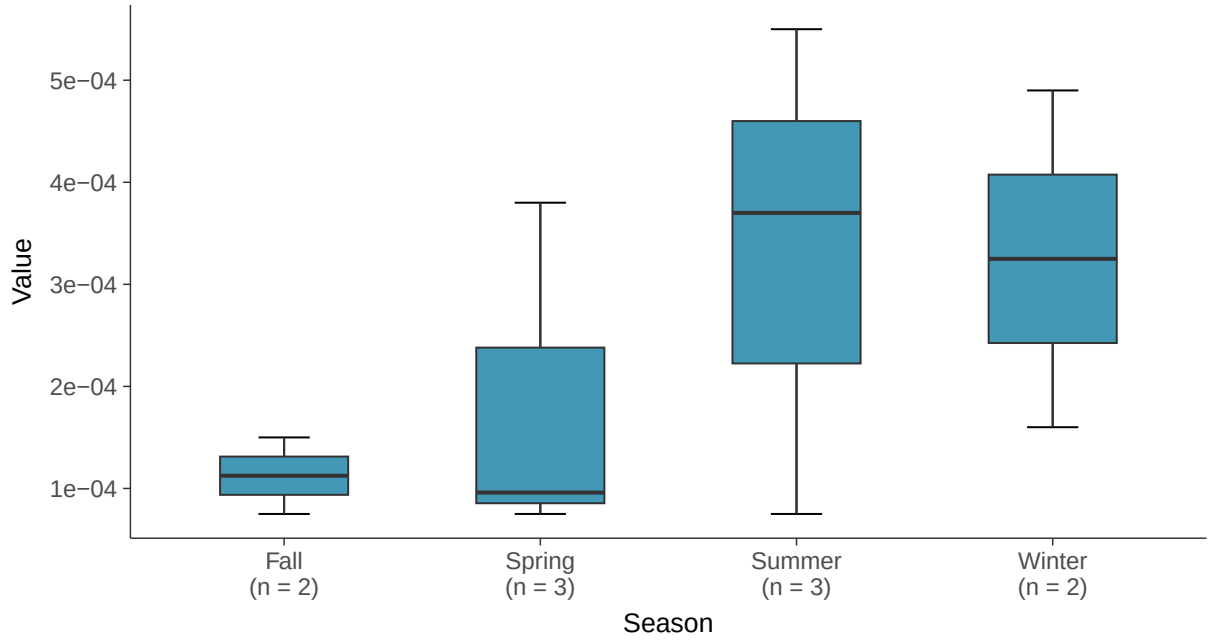
Boxplot

Cadmium, MW-38 (mg/L)



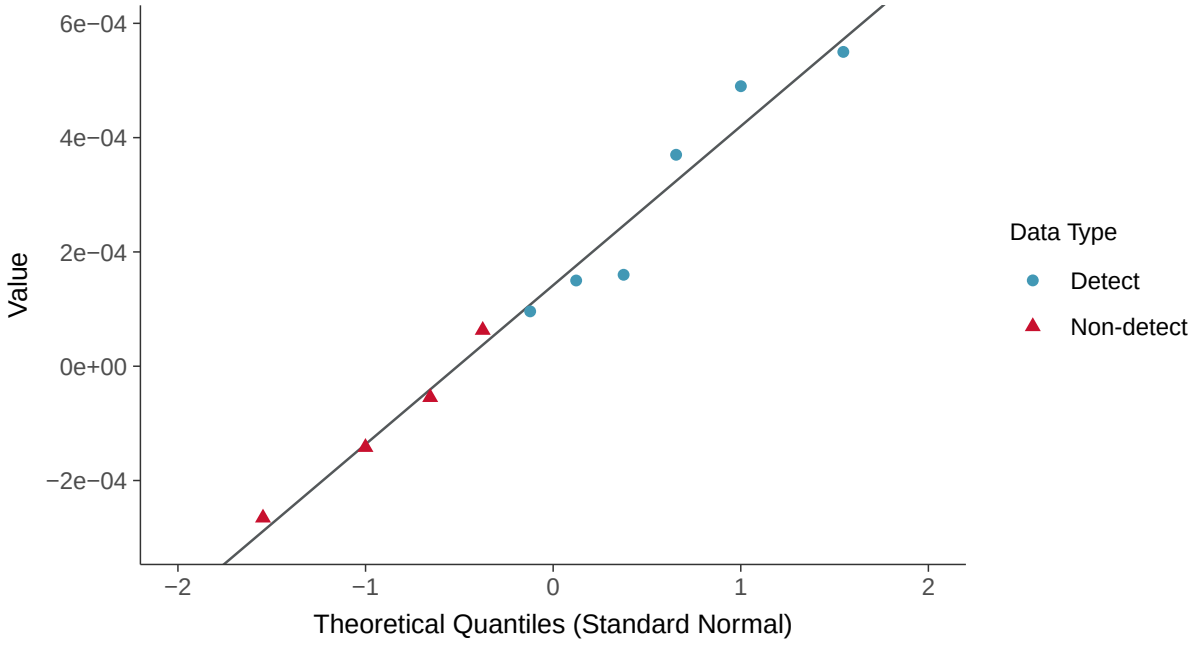
Boxplot by Season

Cadmium, MW-38 (mg/L)



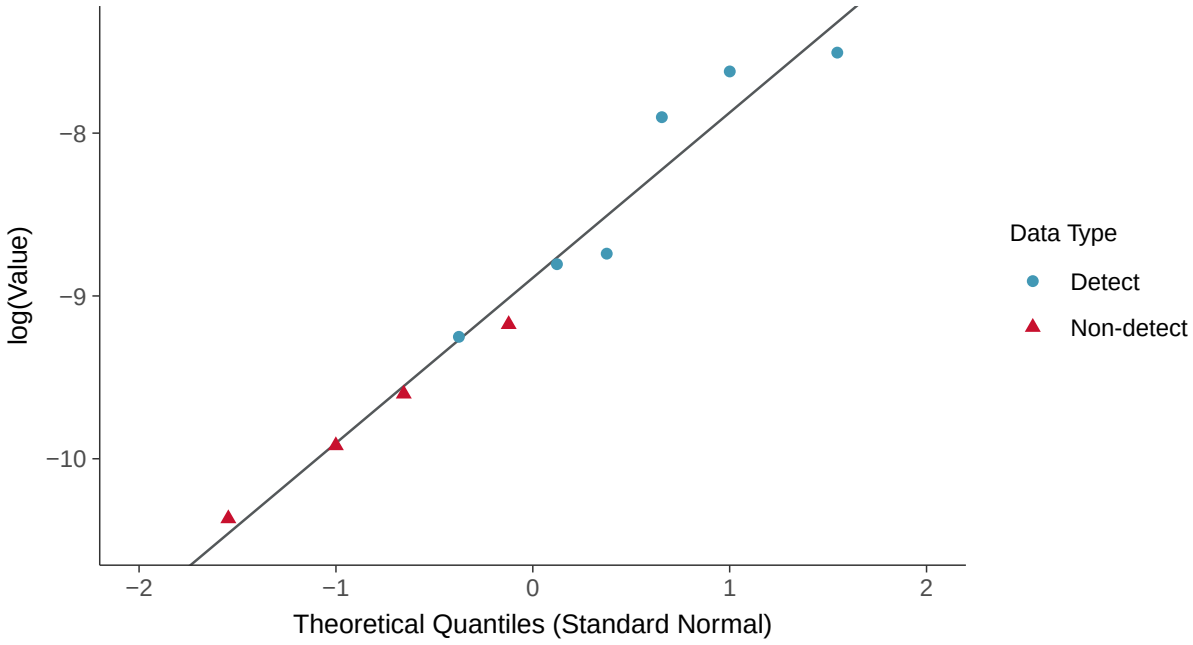
Normal Q-Q plot using ROS Imputed Estimates

Cadmium, MW-38 (mg/L)



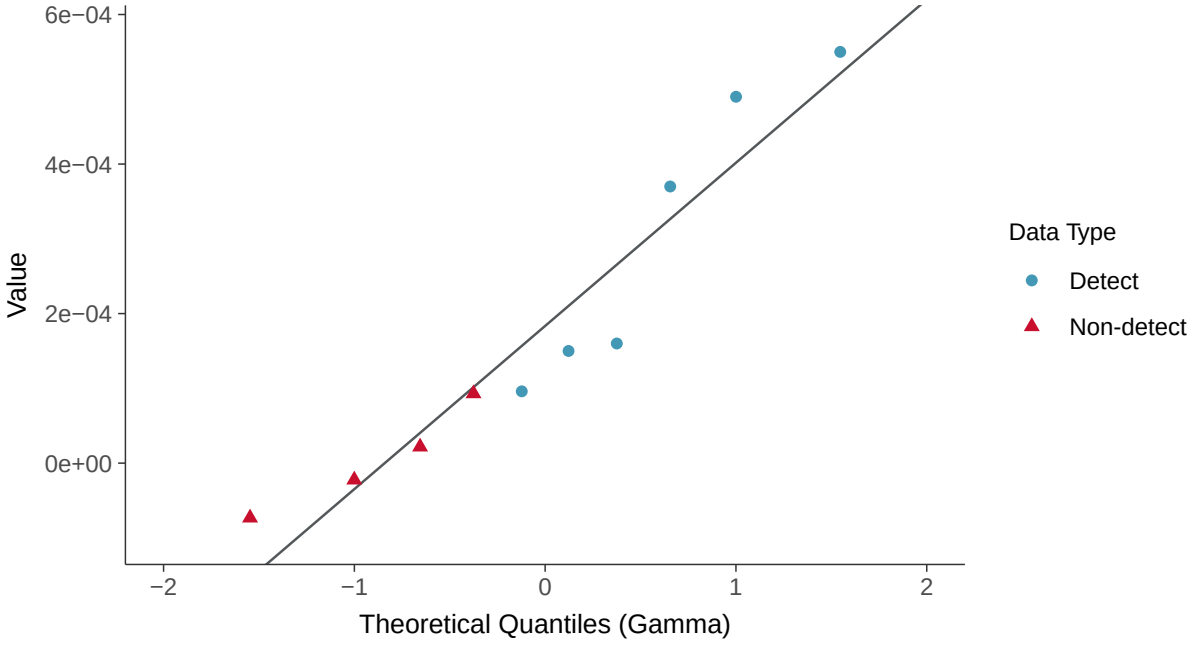
Lognormal Q-Q plot using ROS Imputed Estimates

Cadmium, MW-38 (mg/L)



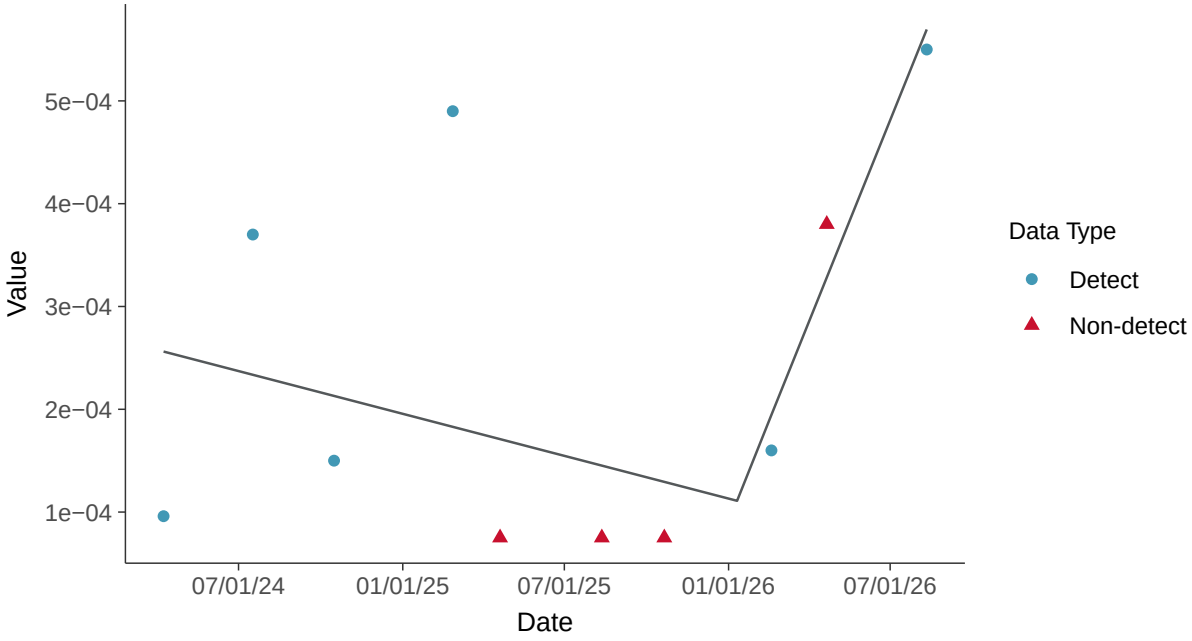
Gamma Q-Q plot using ROS Imputed Estimates

Cadmium, MW-38 (mg/L)



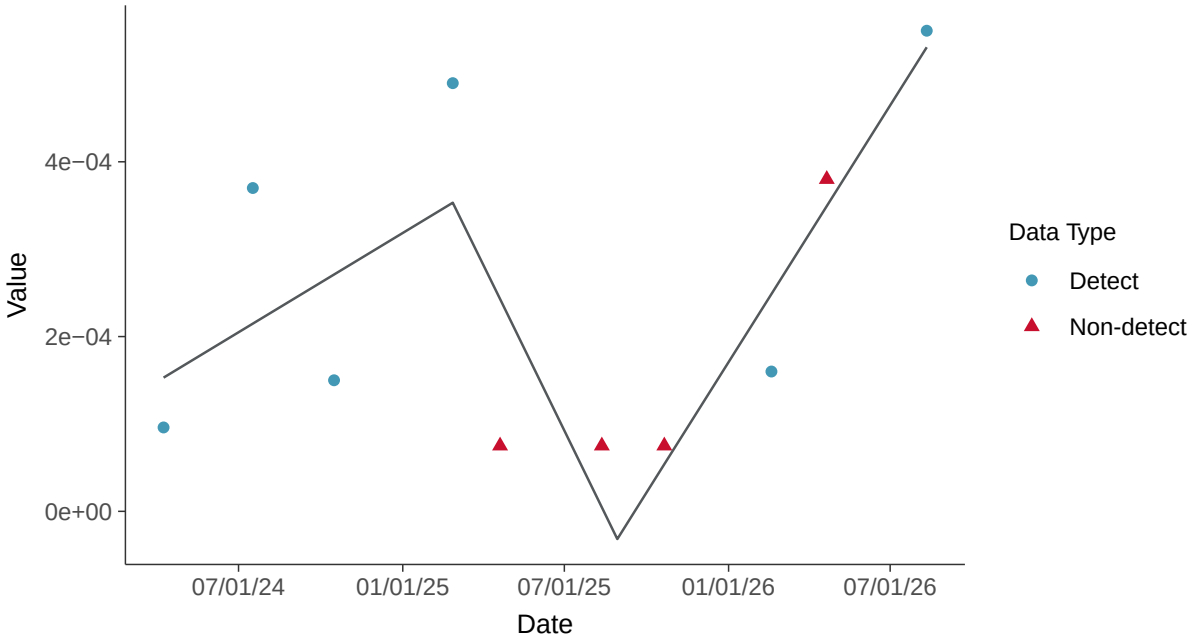
Trend Regression: Piecewise Linear-Linear

Cadmium, MW-38 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Cadmium, MW-38 (mg/L)

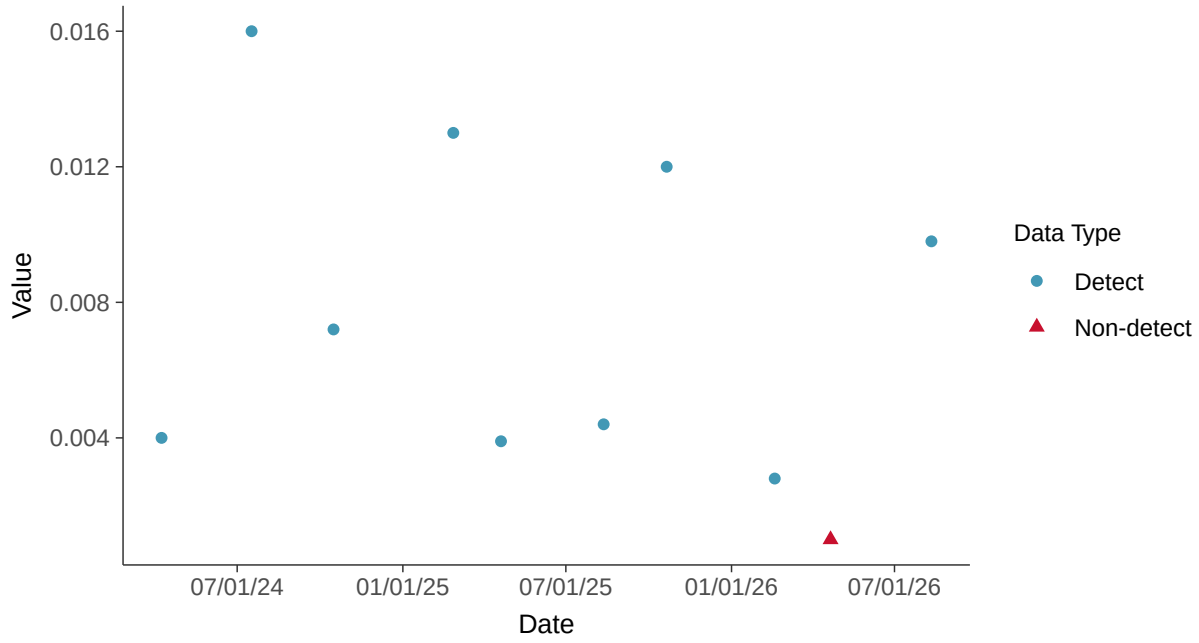


Appendix IV: Chromium, Total, MW-38

ID: 48_2_4_109

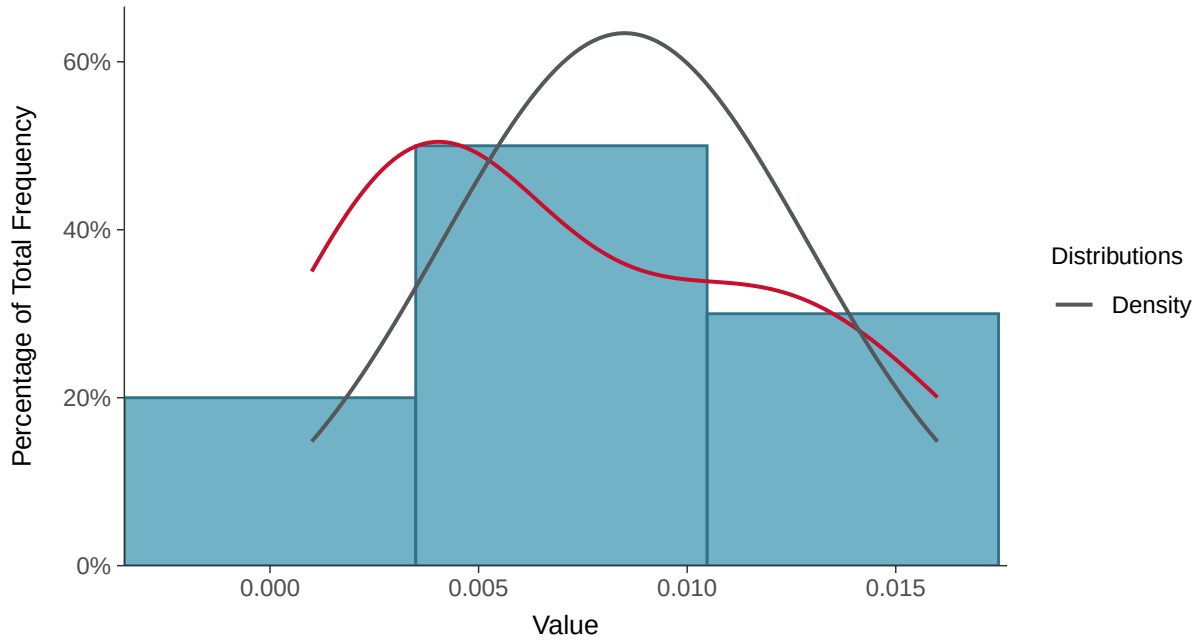
Scatter Plot

Chromium, Total, MW-38 (mg/L)



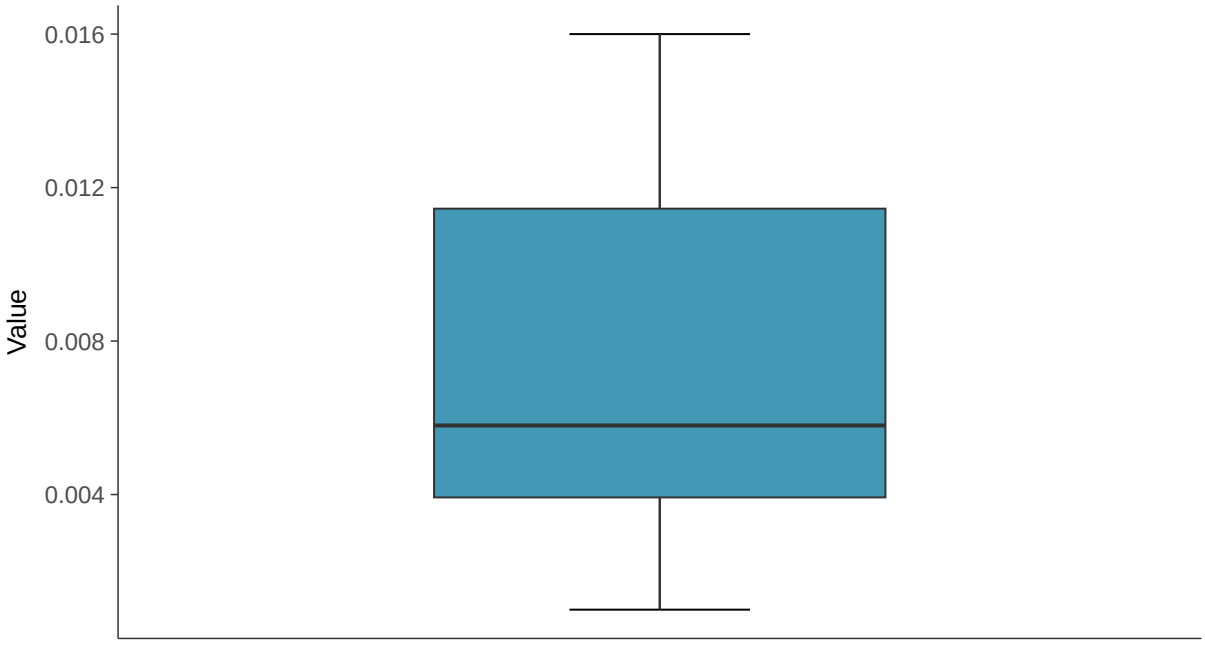
Histogram

Chromium, Total, MW-38 (mg/L)



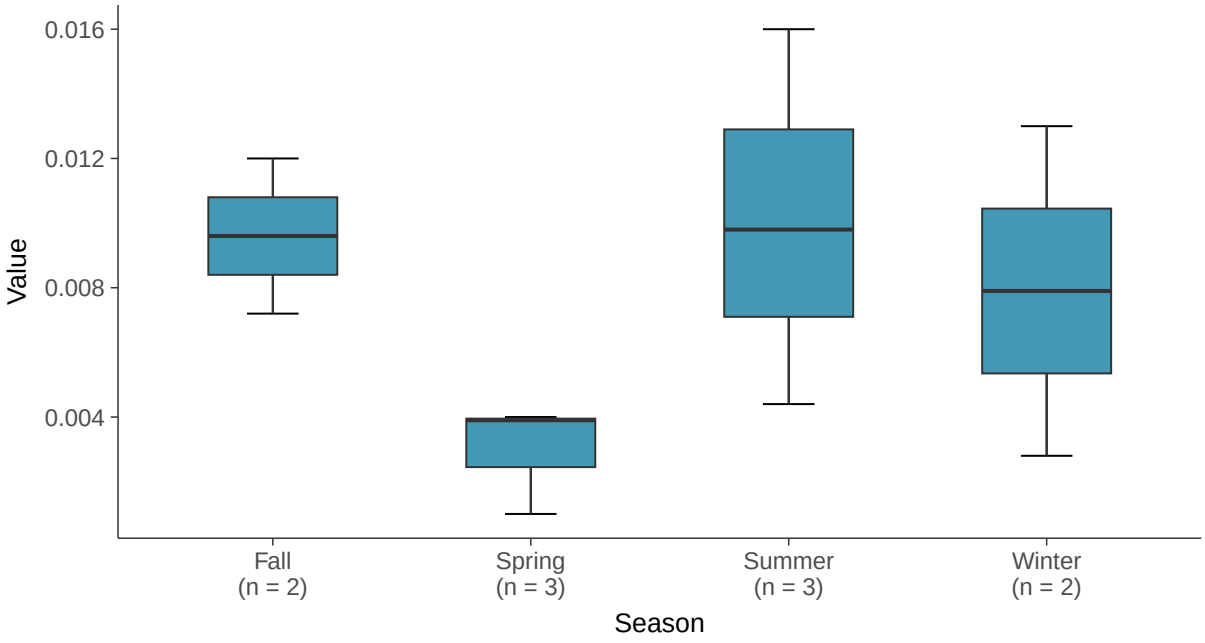
Boxplot

Chromium, Total, MW-38 (mg/L)



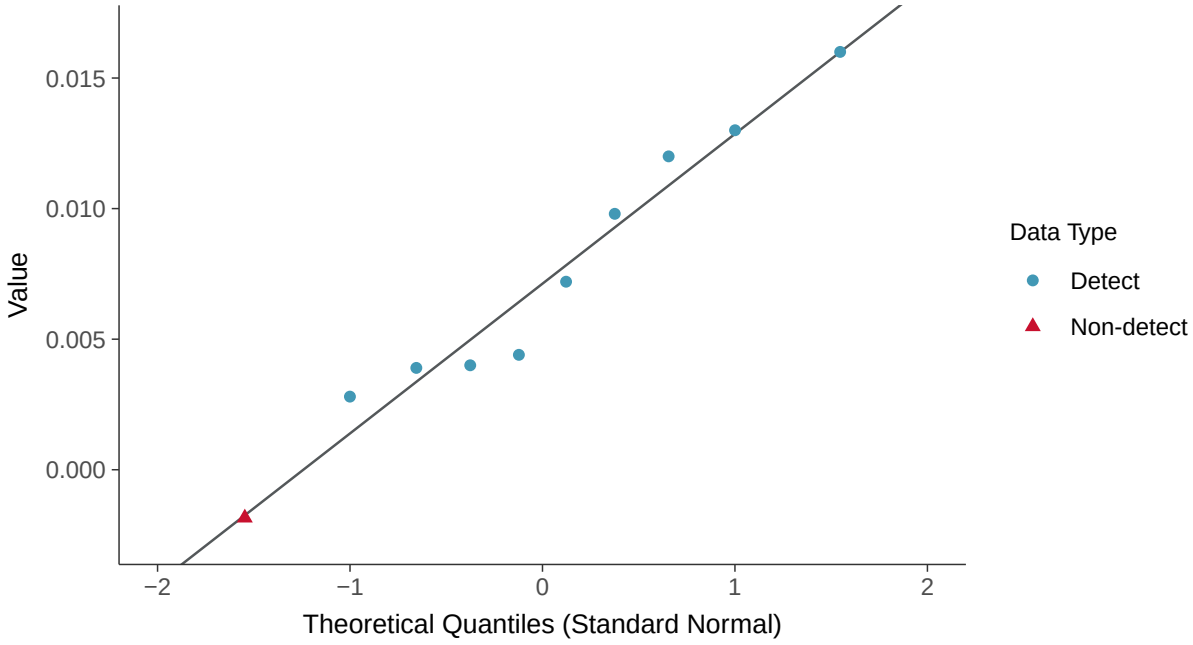
Boxplot by Season

Chromium, Total, MW-38 (mg/L)



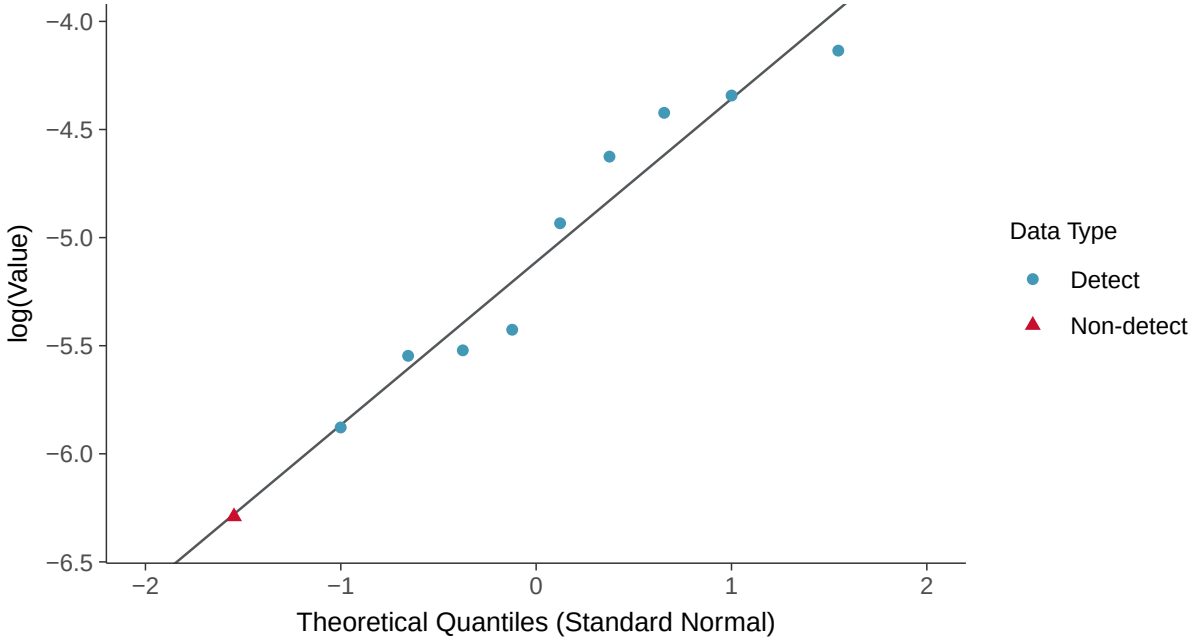
Normal Q-Q plot using ROS Imputed Estimates

Chromium, Total, MW-38 (mg/L)



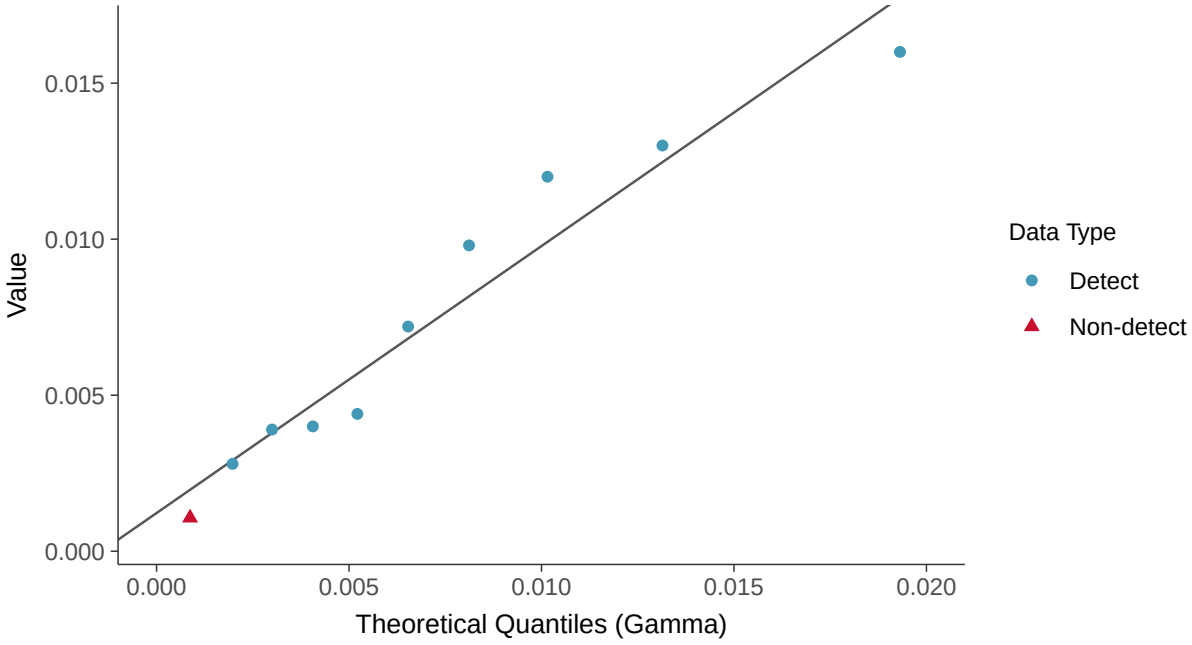
Lognormal Q-Q plot using ROS Imputed Estimates

Chromium, Total, MW-38 (mg/L)



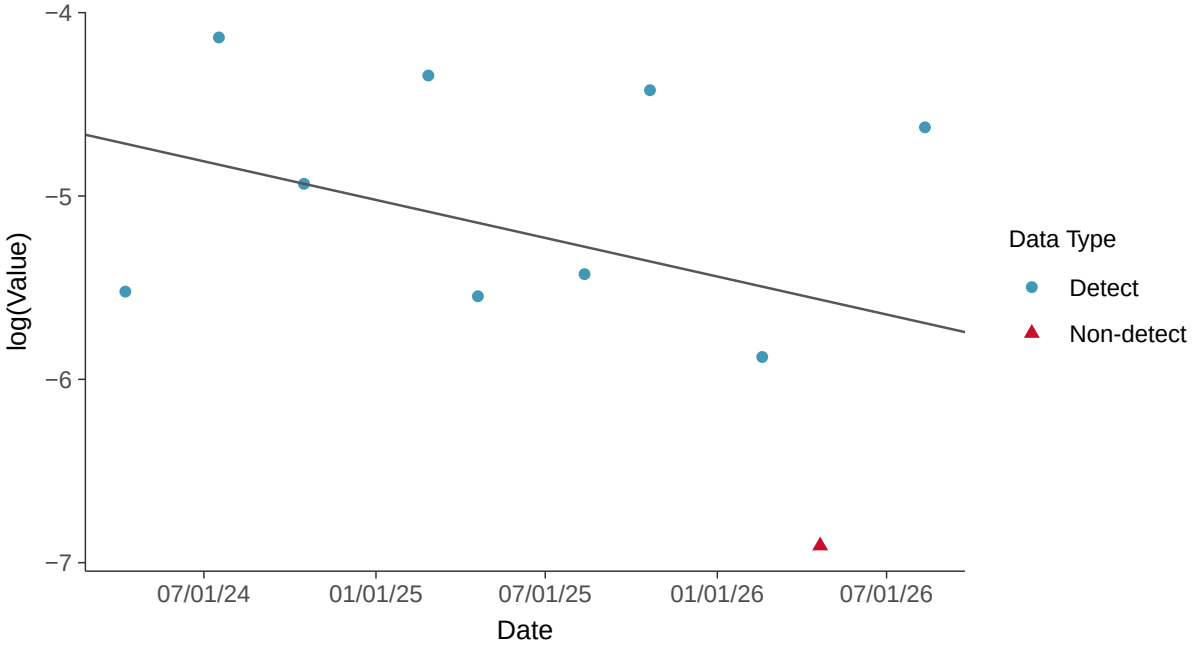
Gamma Q-Q plot using ROS Imputed Estimates

Chromium, Total, MW-38 (mg/L)



Trend Regression: Lognormal MLE

Chromium, Total, MW-38 (mg/L)

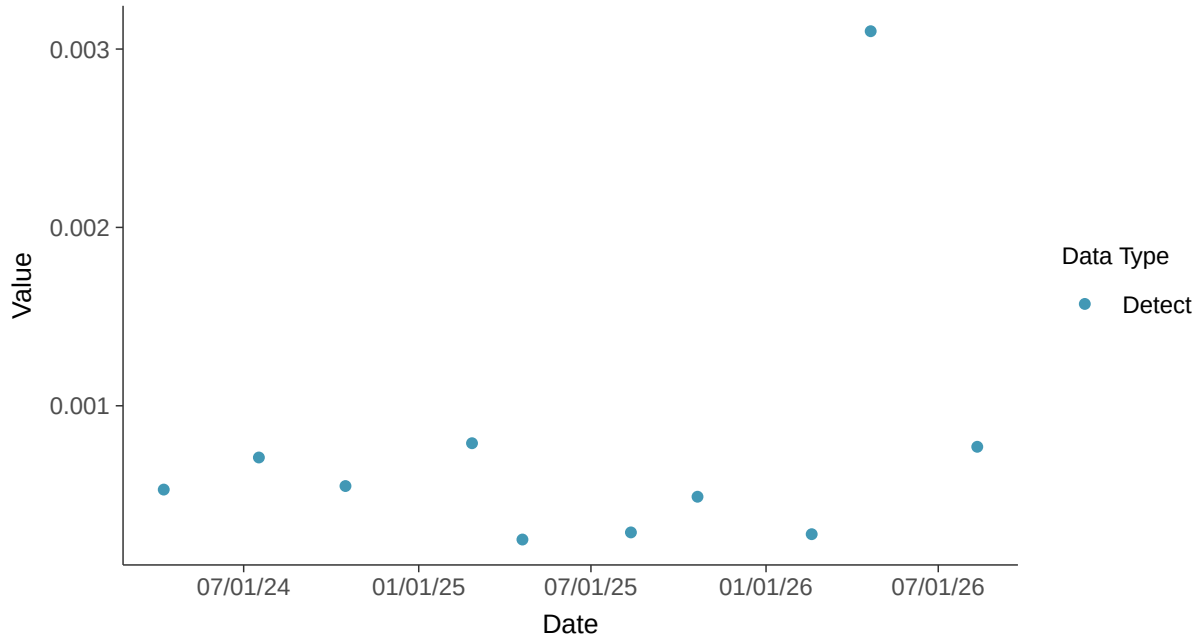


Appendix IV: Cobalt, MW-38

ID: 48_2_4_110

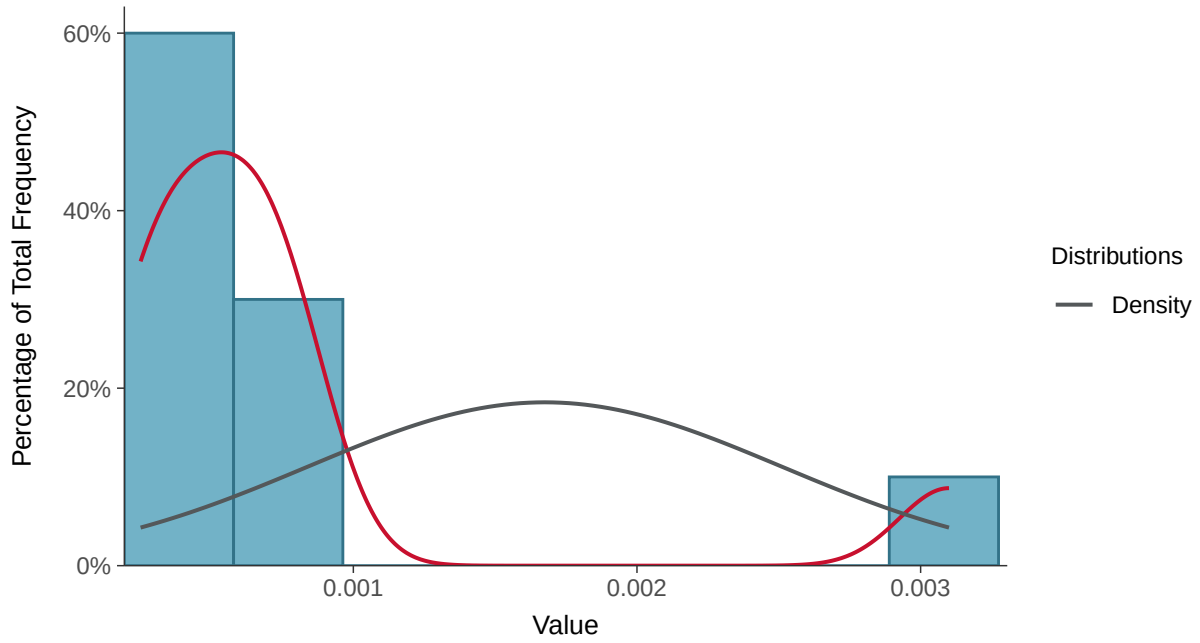
Scatter Plot

Cobalt, MW-38 (mg/L)



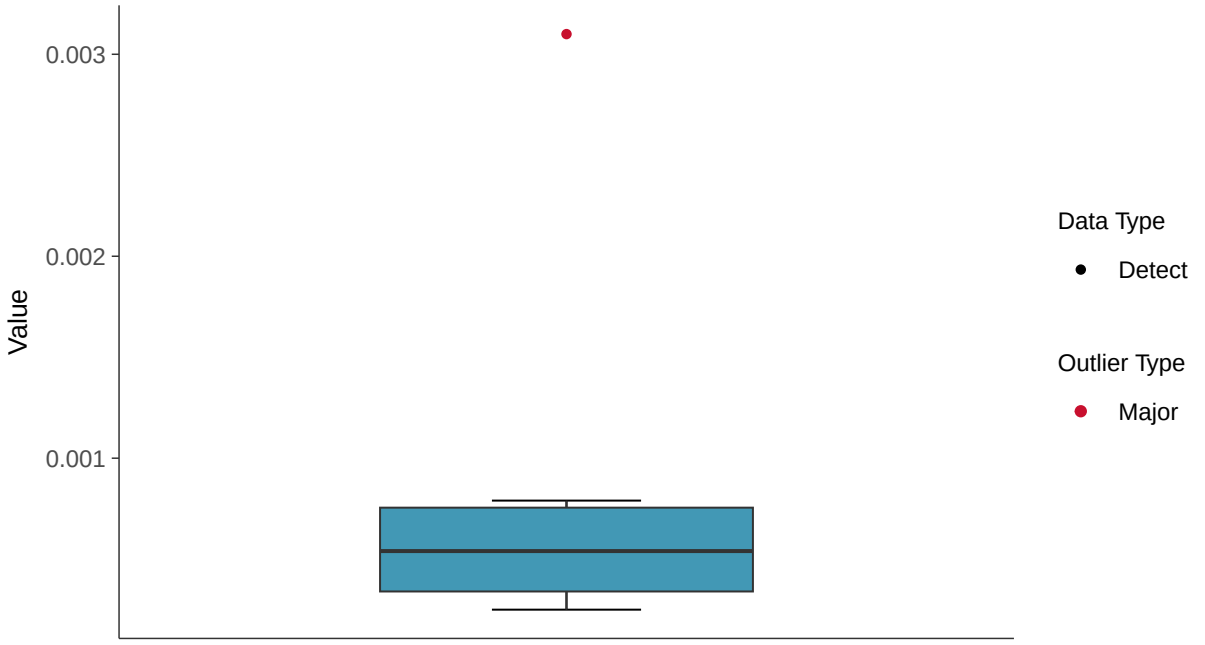
Histogram

Cobalt, MW-38 (mg/L)



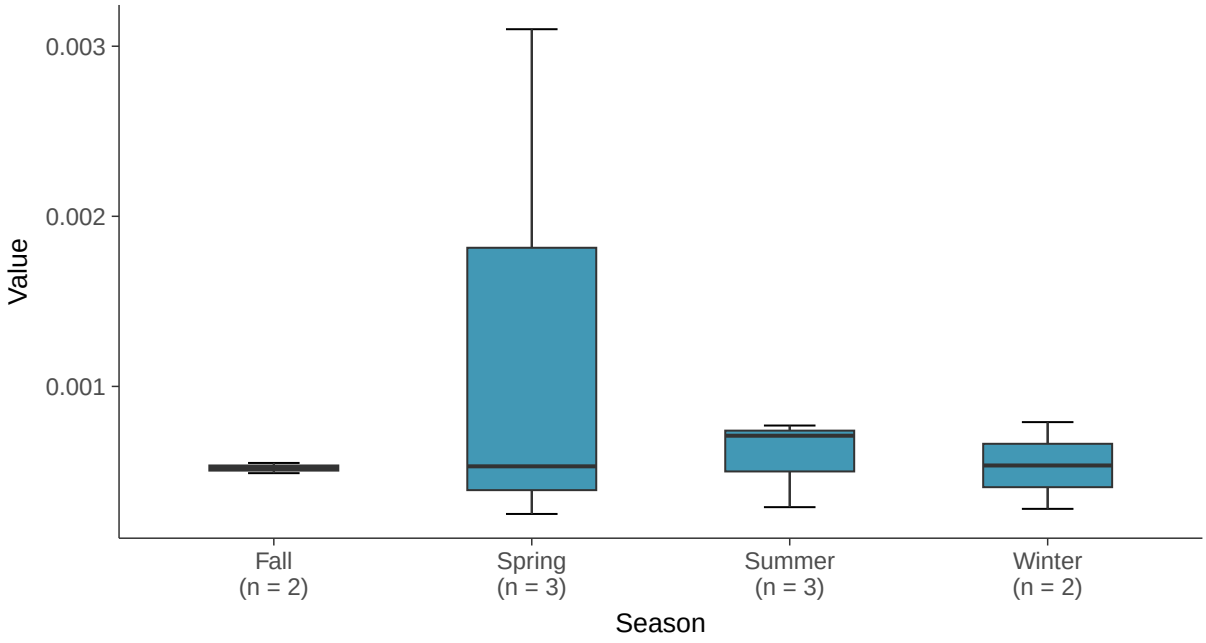
Boxplot

Cobalt, MW-38 (mg/L)



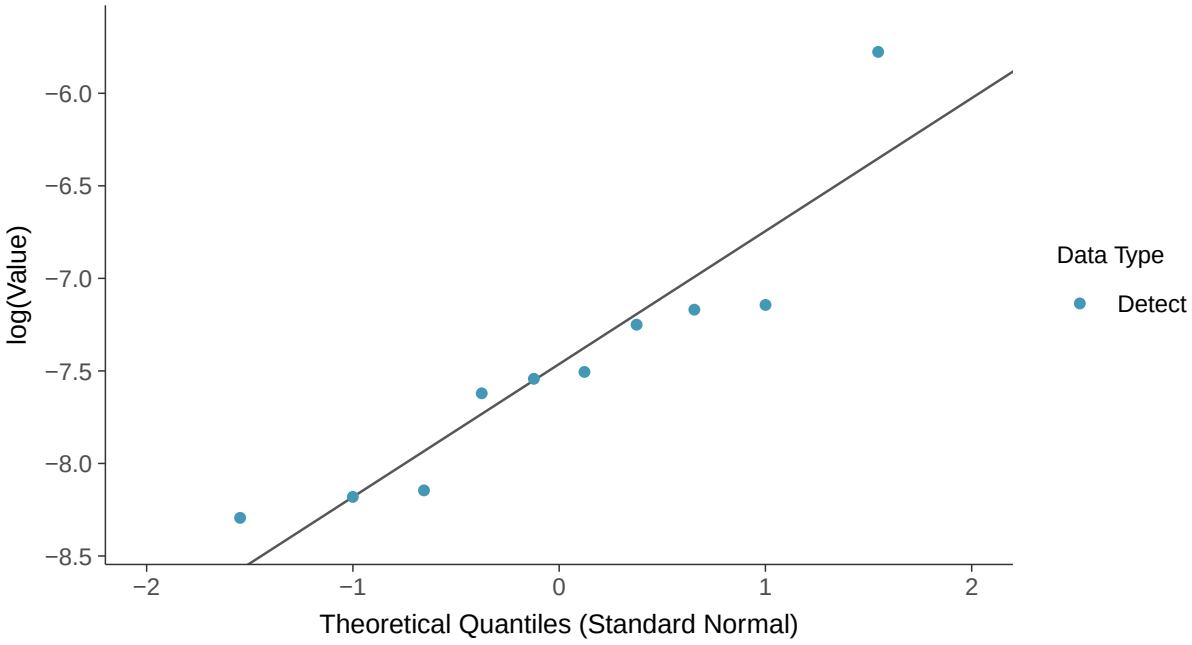
Boxplot by Season

Cobalt, MW-38 (mg/L)



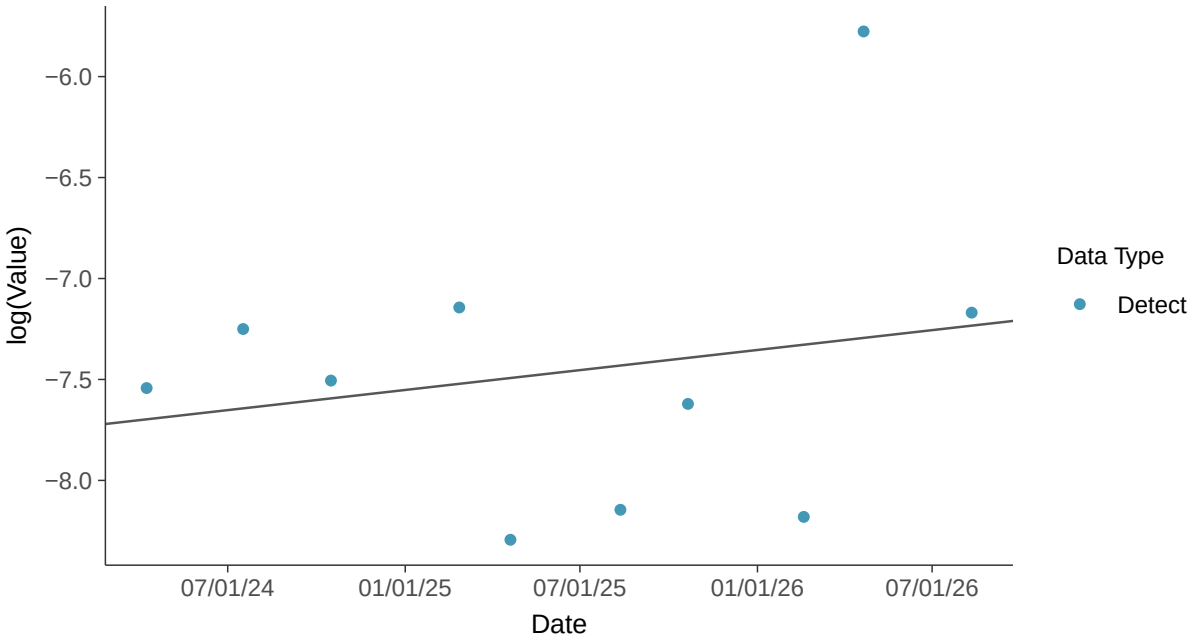
Lognormal Q-Q plot

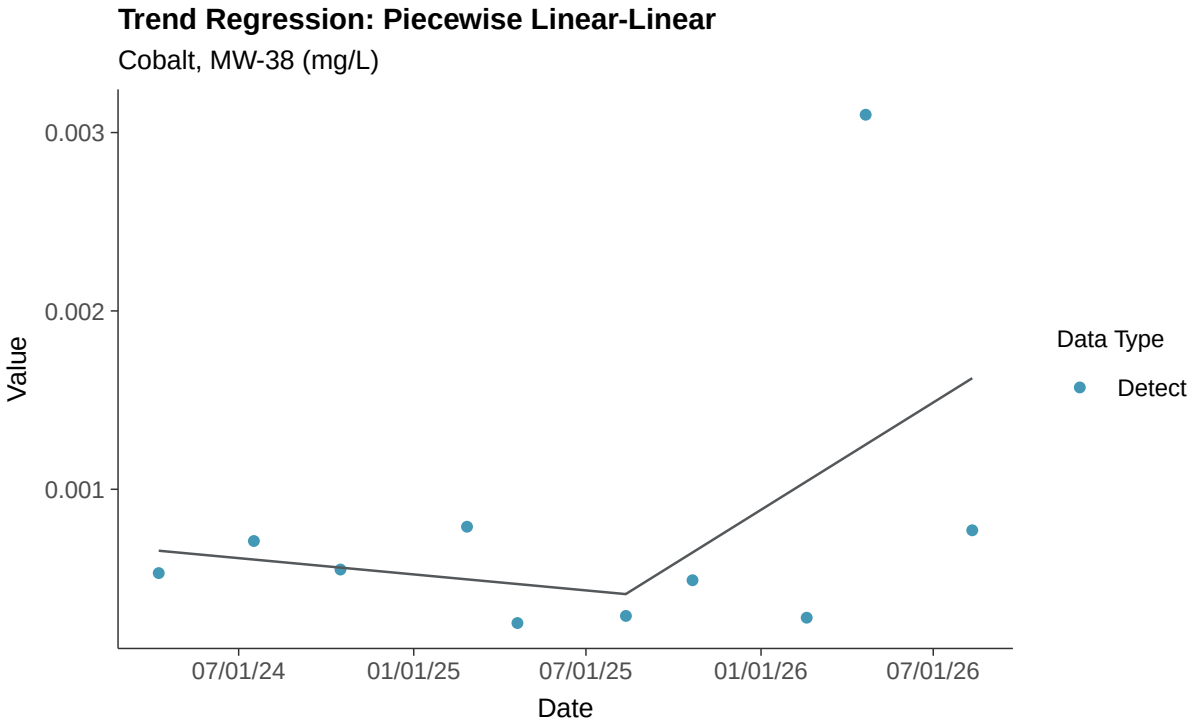
Cobalt, MW-38 (mg/L)



Trend Regression: Lognormal MLE

Cobalt, MW-38 (mg/L)



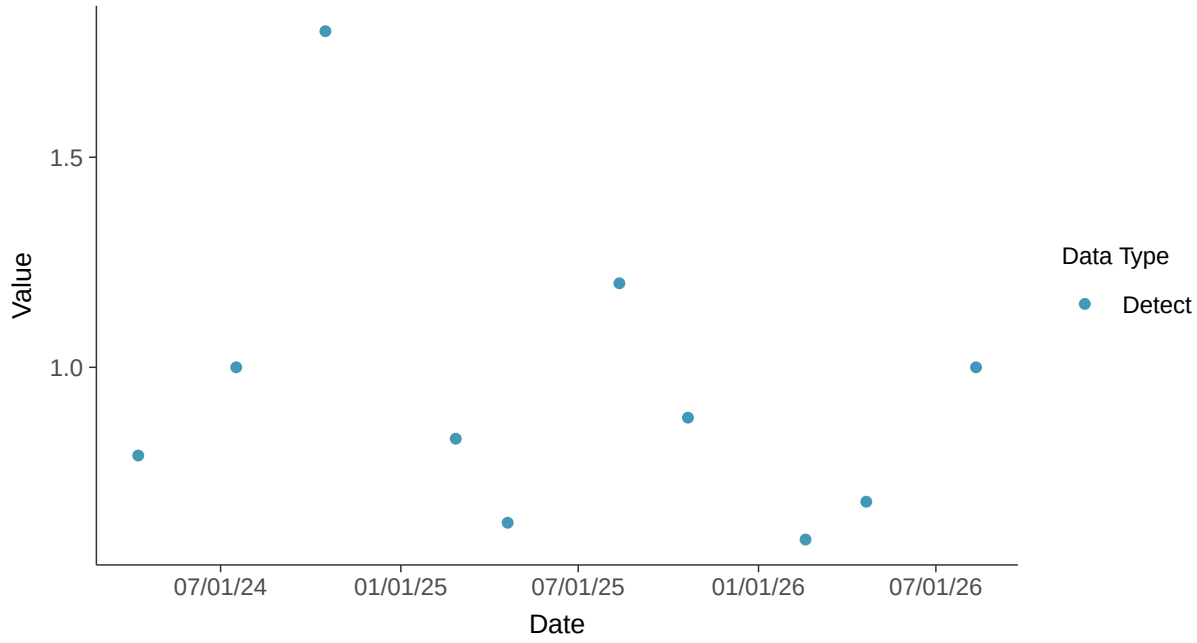

Trend Regression: Piecewise Linear-Linear
Cobalt, MW-38 (mg/L)
0.003
0.002
0.001
Value
07/01/24
01/01/25
07/01/25
01/01/26
07/01/26
Date
Data Type
Detect

Appendix IV: Fluoride (App IV), MW-38

ID: 48_2_4_113

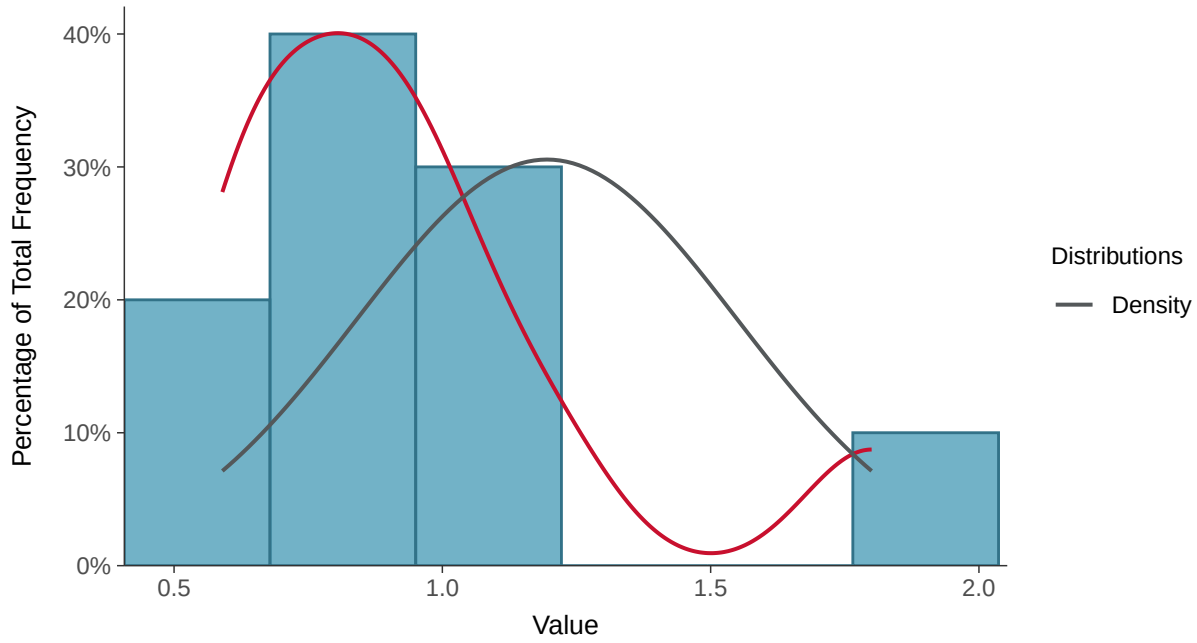
Scatter Plot

Fluoride (App IV), MW-38 (mg/L)



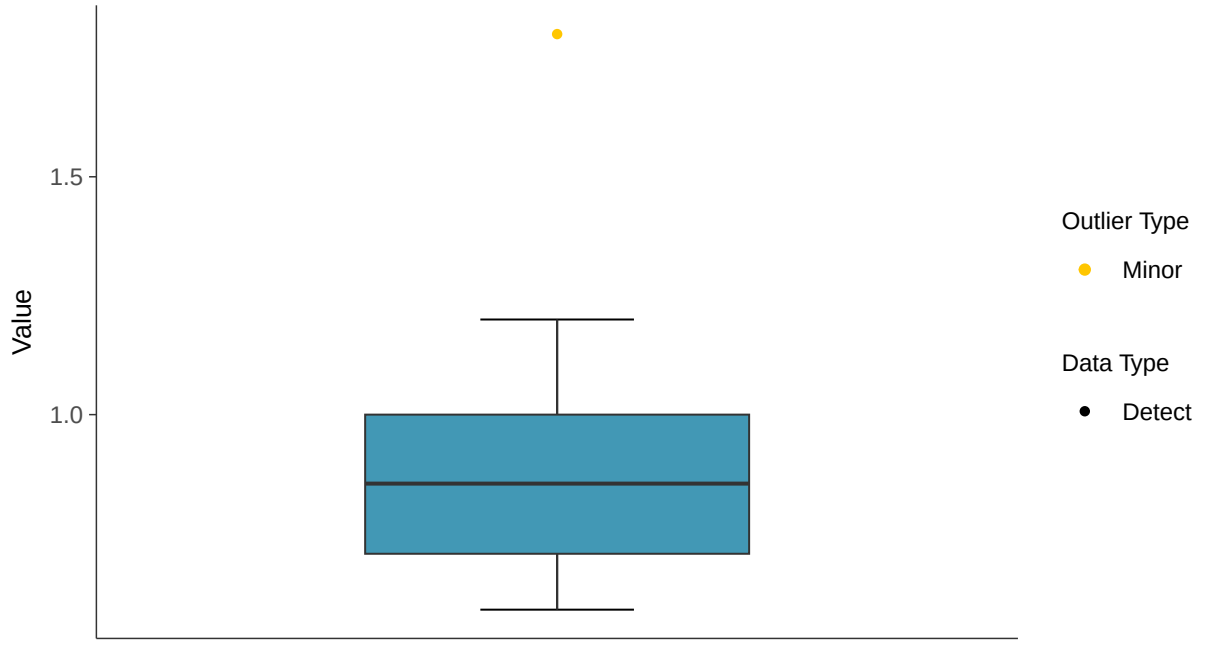
Histogram

Fluoride (App IV), MW-38 (mg/L)



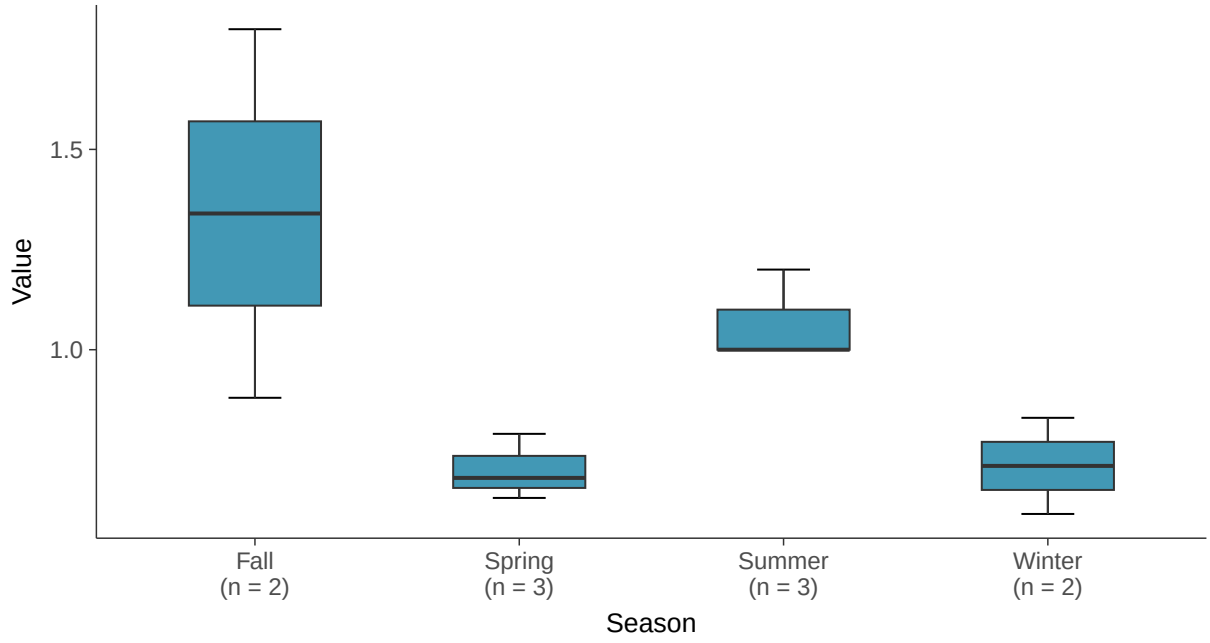
Boxplot

Fluoride (App IV), MW-38 (mg/L)



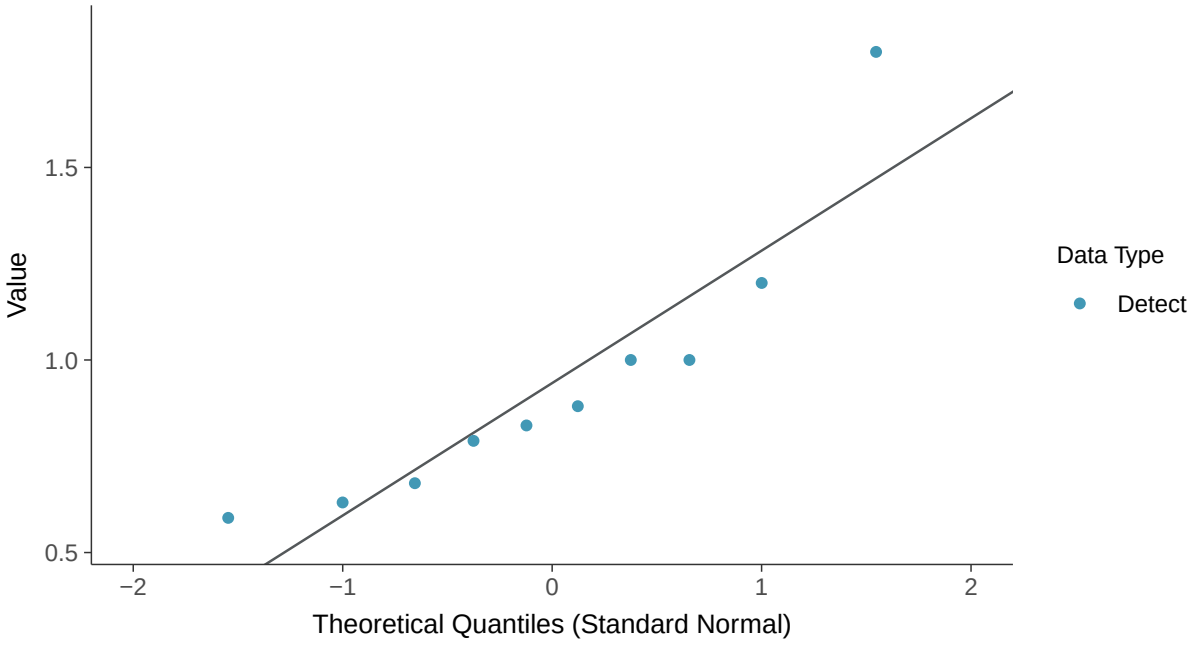
Boxplot by Season

Fluoride (App IV), MW-38 (mg/L)



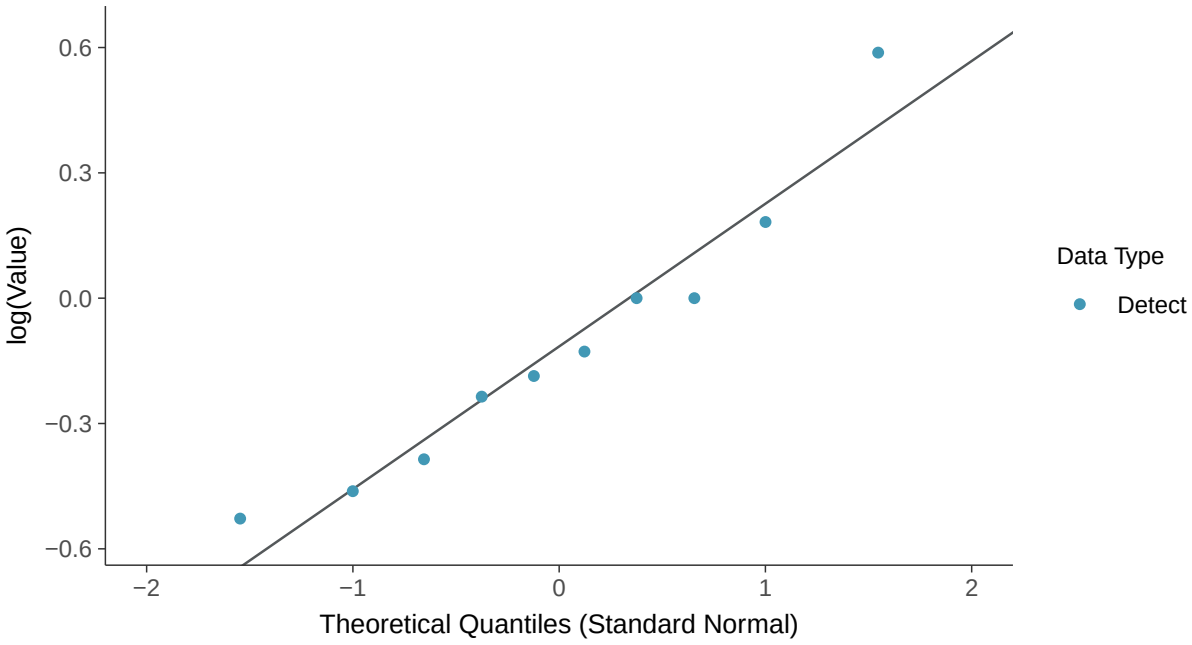
Normal Q-Q plot

Fluoride (App IV), MW-38 (mg/L)



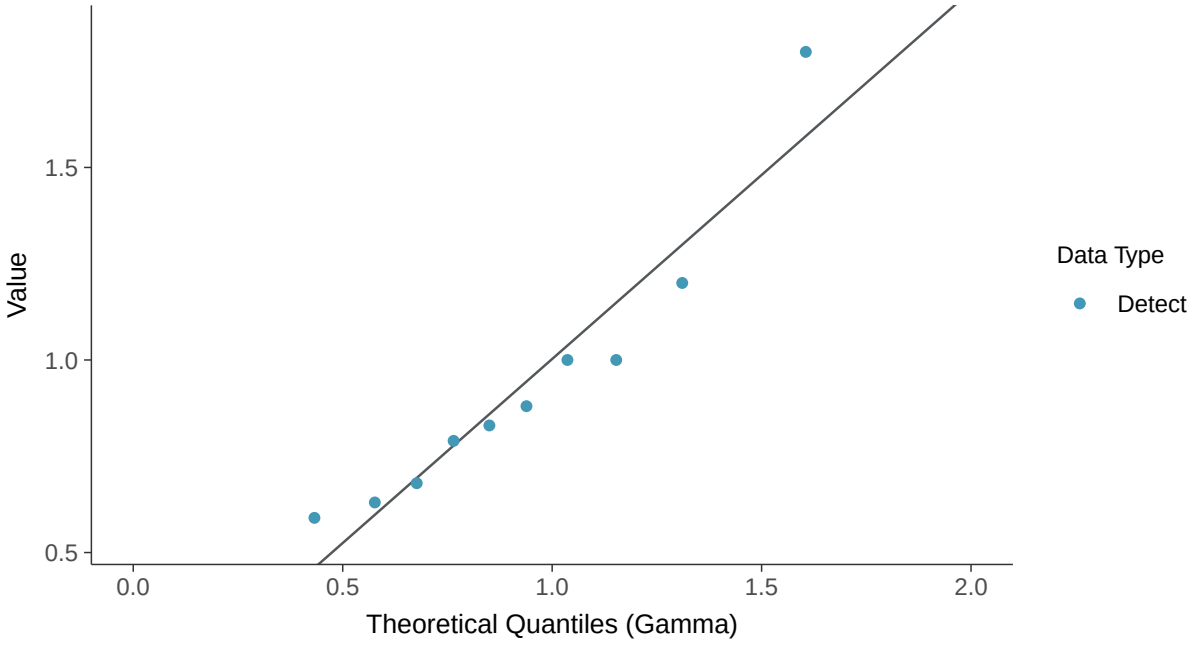
Lognormal Q-Q plot

Fluoride (App IV), MW-38 (mg/L)



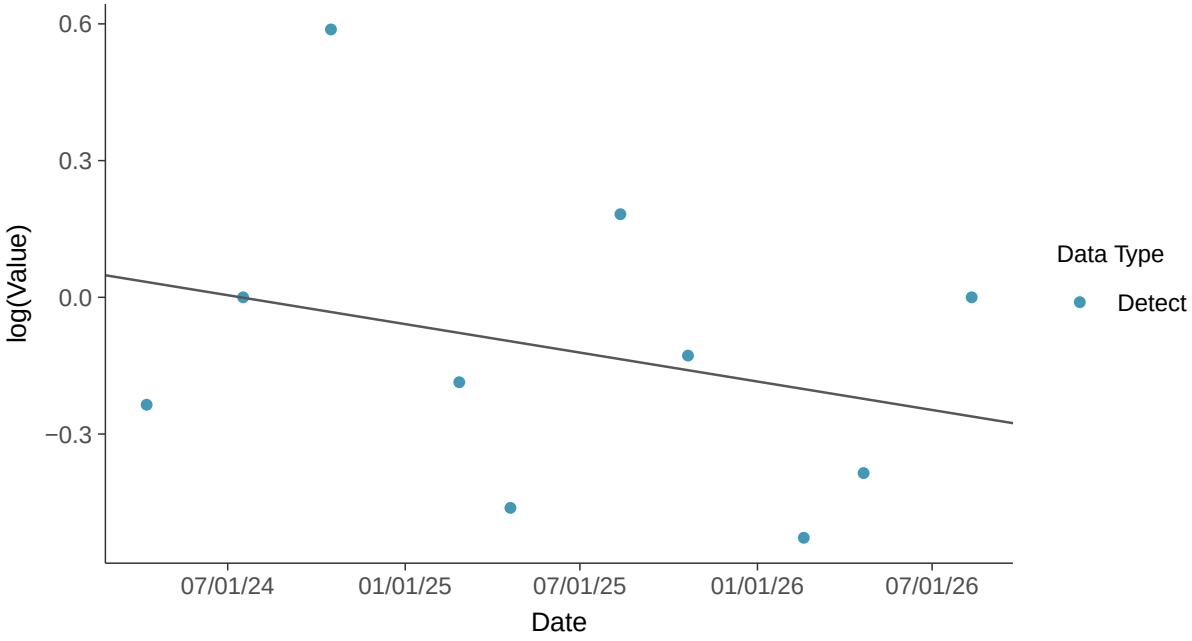
Gamma Q-Q plot

Fluoride (App IV), MW-38 (mg/L)



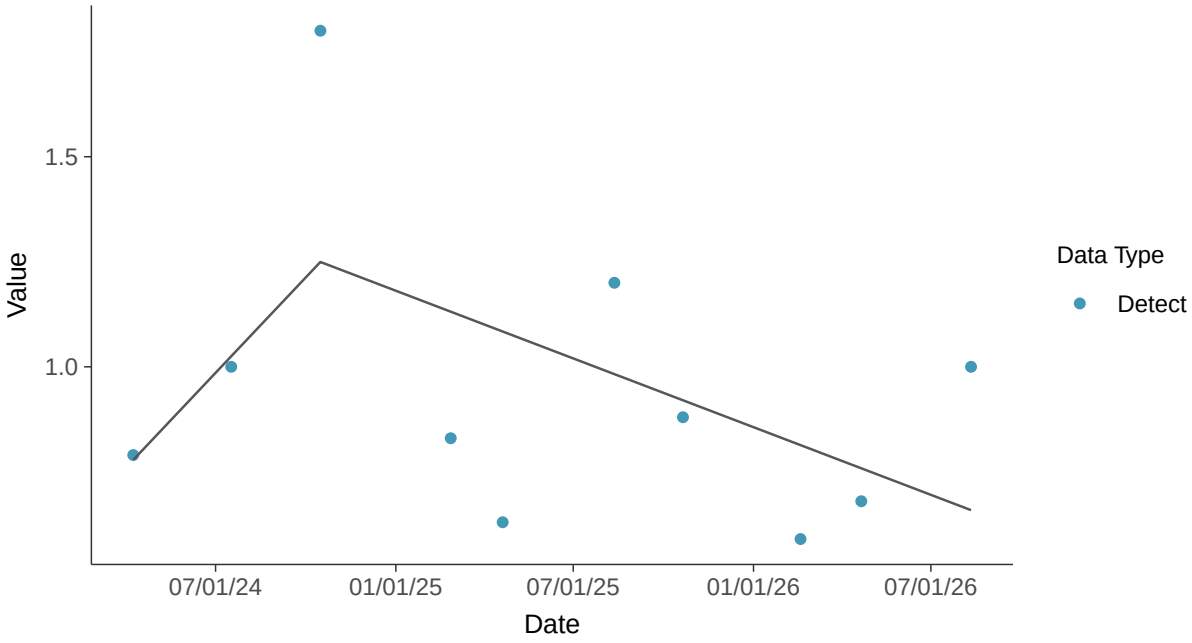
Trend Regression: Lognormal MLE

Fluoride (App IV), MW-38 (mg/L)



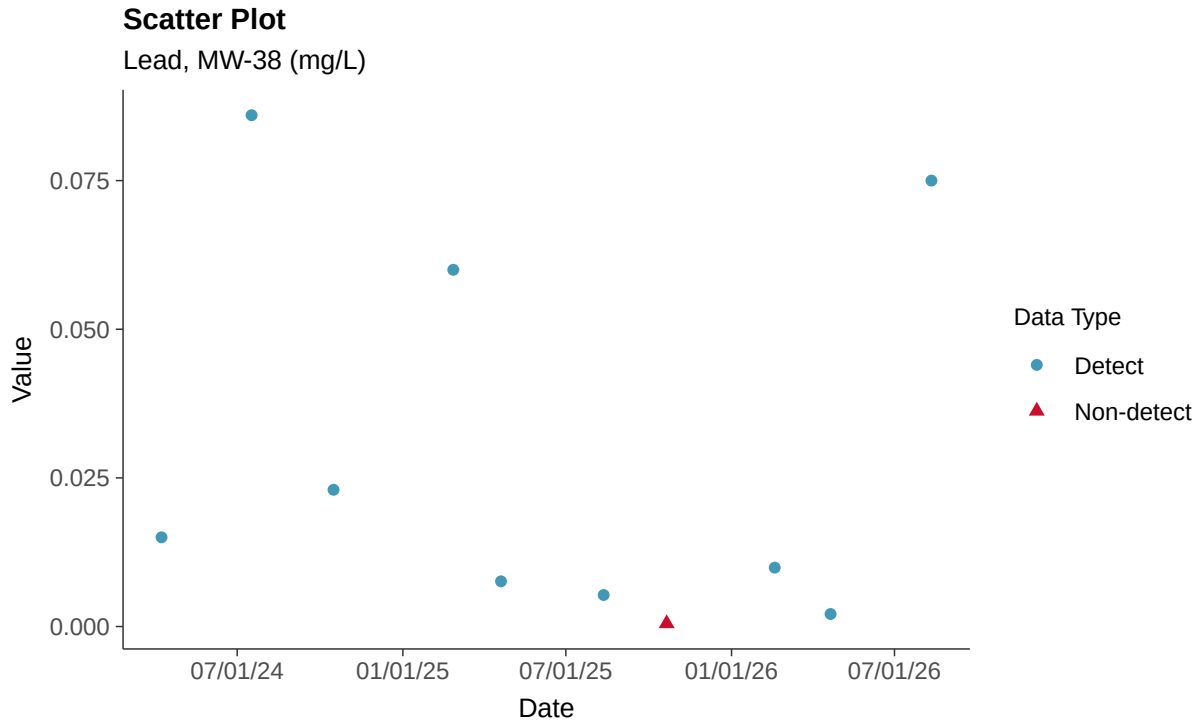
Trend Regression: Piecewise Linear-Linear

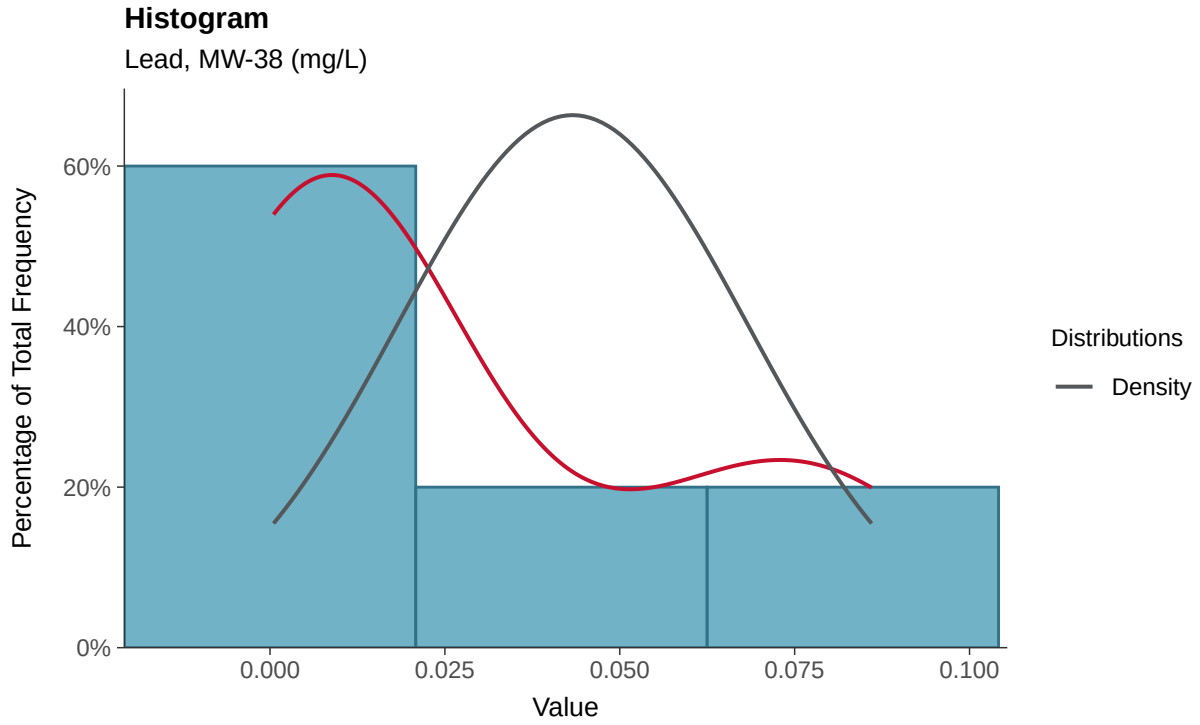
Fluoride (App IV), MW-38 (mg/L)



Appendix IV: Lead, MW-38

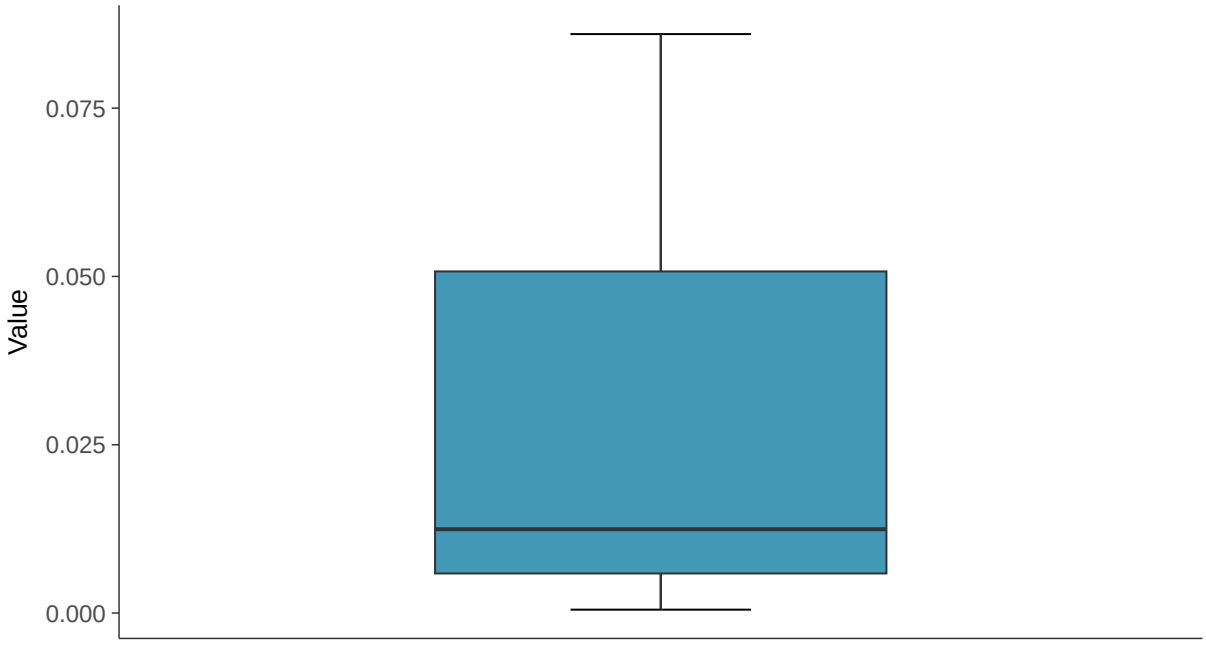
ID: 48_2_4_115





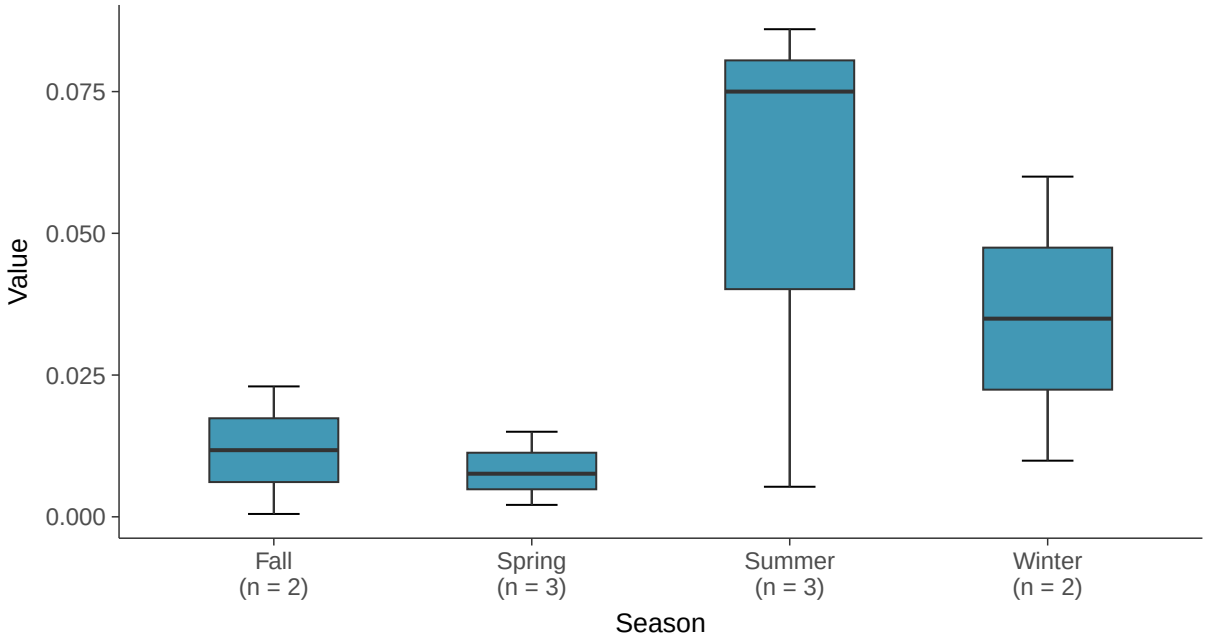
Boxplot

Lead, MW-38 (mg/L)



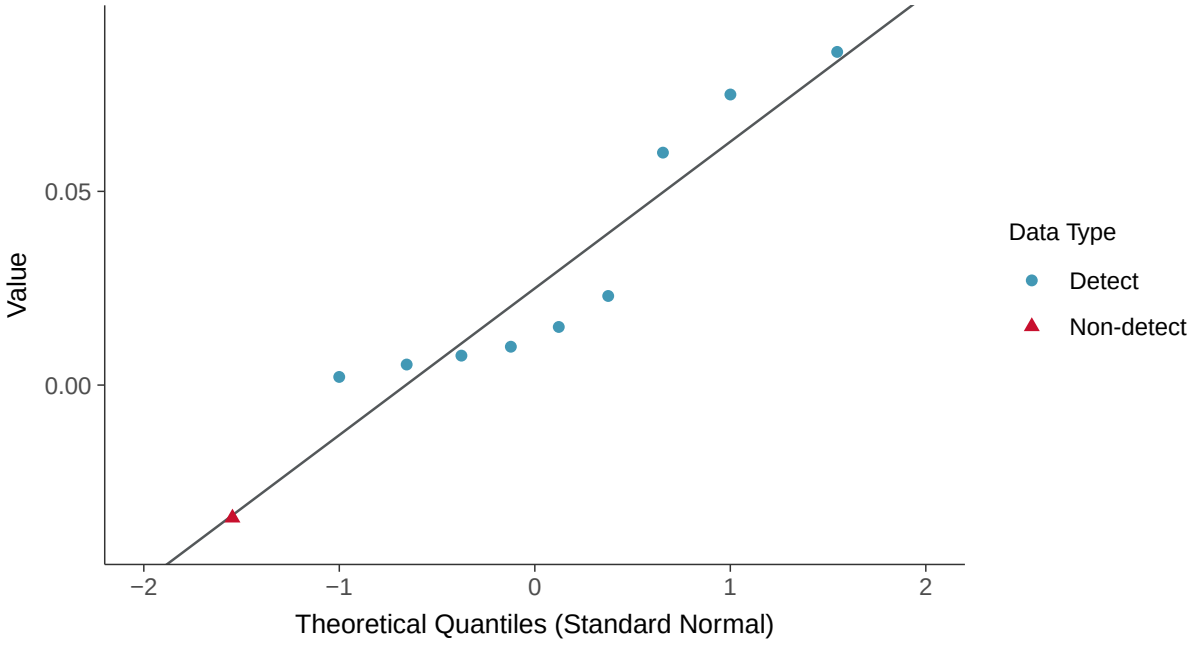
Boxplot by Season

Lead, MW-38 (mg/L)



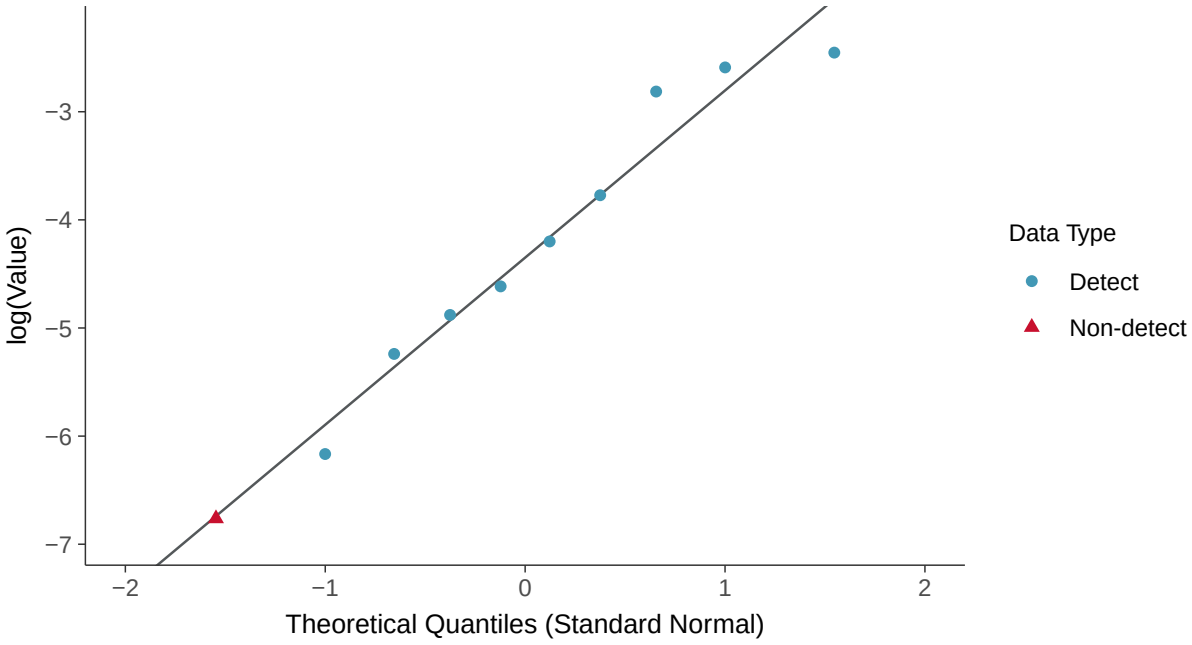
Normal Q-Q plot using ROS Imputed Estimates

Lead, MW-38 (mg/L)



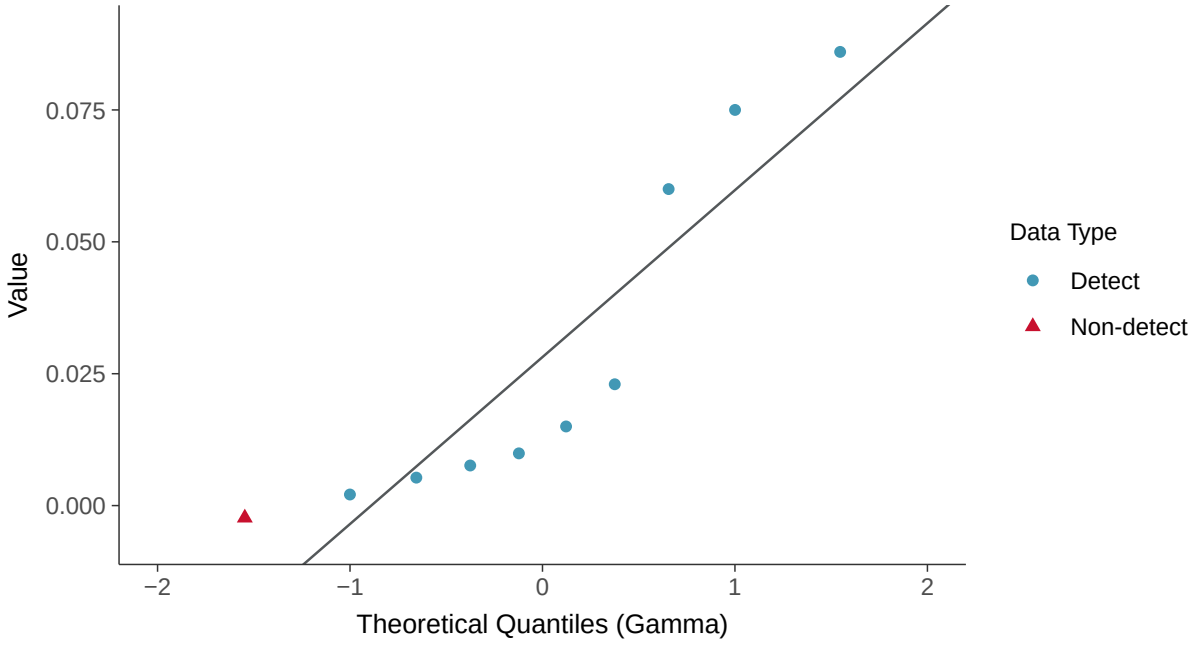
Lognormal Q-Q plot using ROS Imputed Estimates

Lead, MW-38 (mg/L)



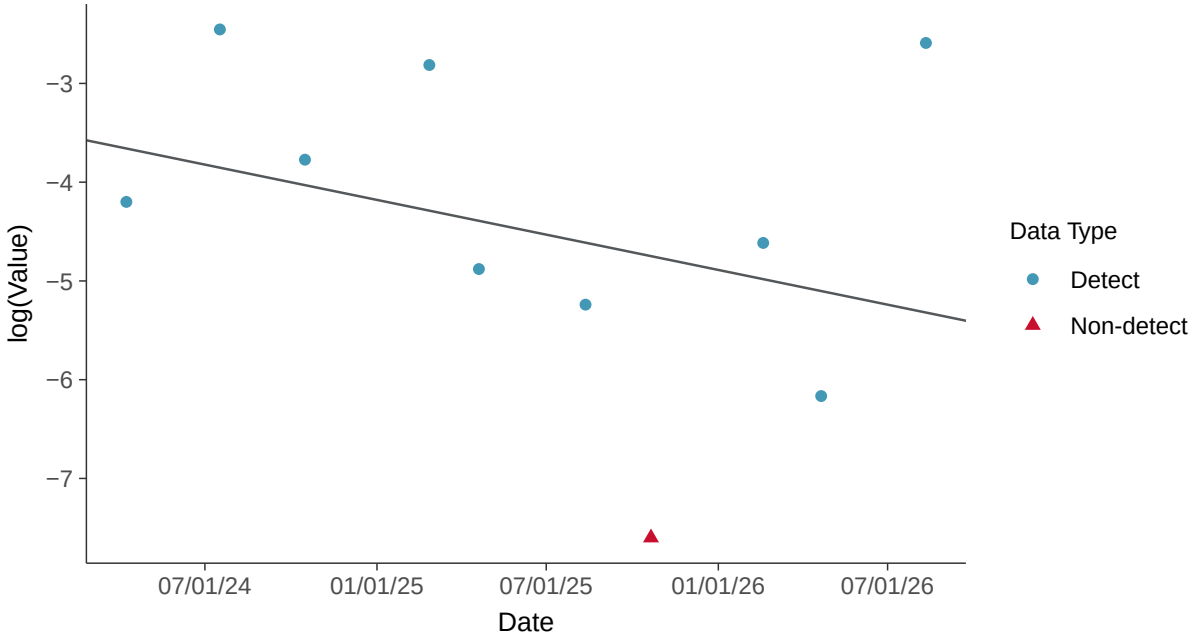
Gamma Q-Q plot using ROS Imputed Estimates

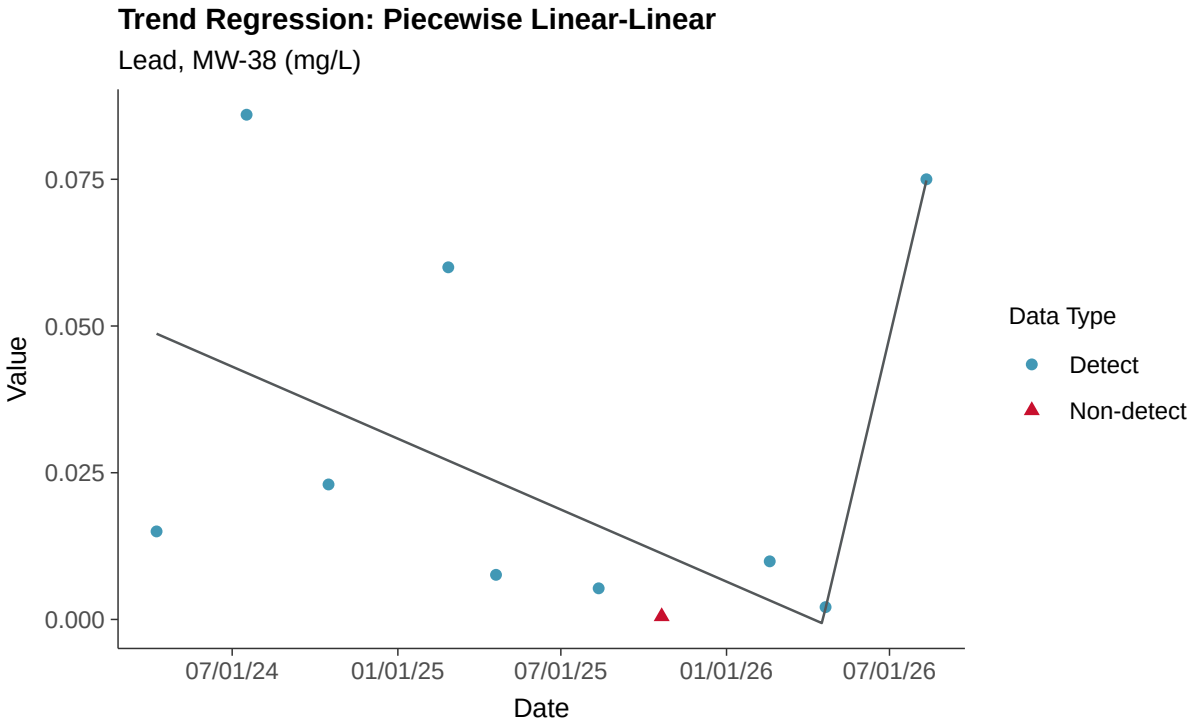
Lead, MW-38 (mg/L)



Trend Regression: Lognormal MLE

Lead, MW-38 (mg/L)



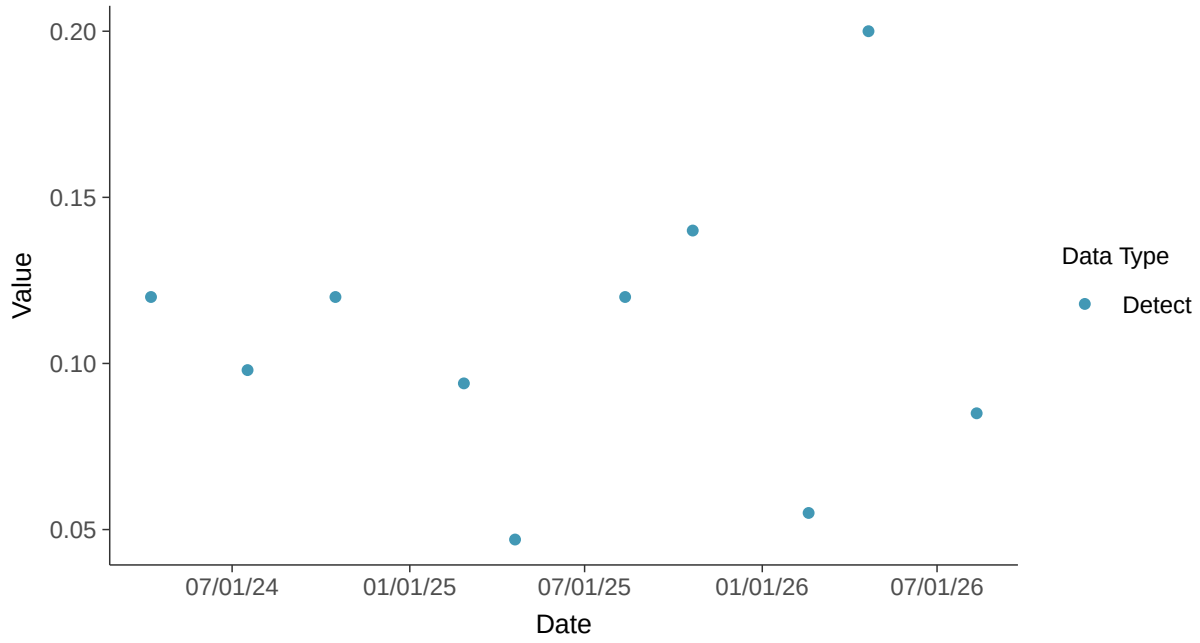

Trend Regression: Piecewise Linear-Linear
Lead, MW-38 (mg/L)
Value
0.075
0.050
0.025
0.000
07/01/24
01/01/25
07/01/25
01/01/26
07/01/26
Date
Data Type
Detect
Non-detect

Appendix IV: Lithium, MW-38

ID: 48_2_4_116

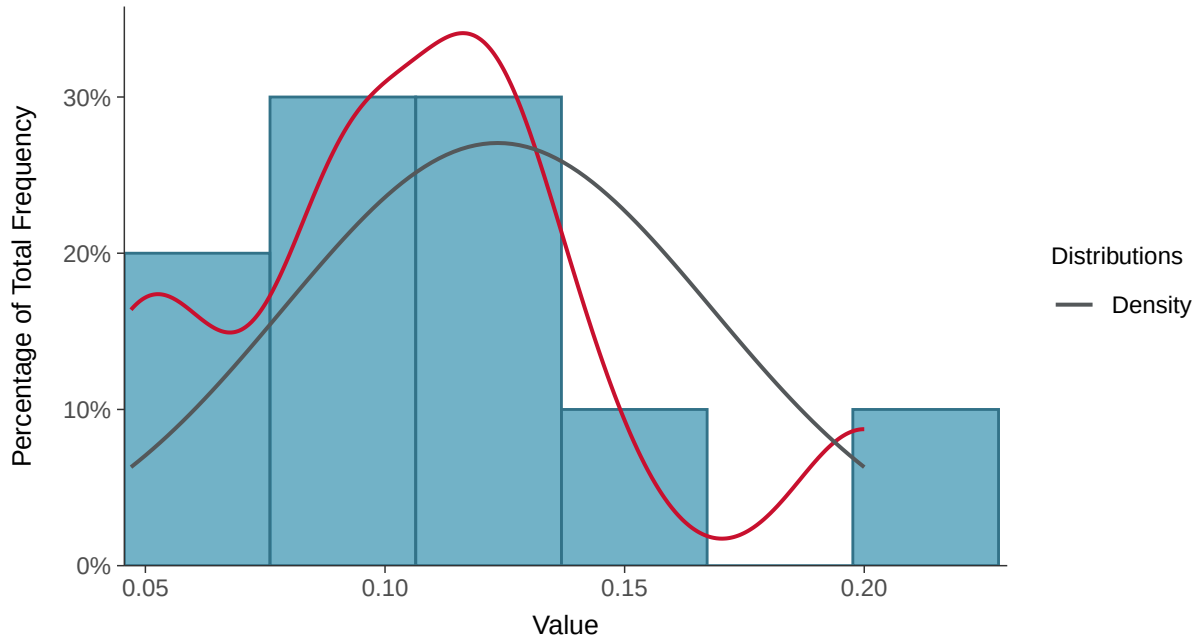
Scatter Plot

Lithium, MW-38 (mg/L)



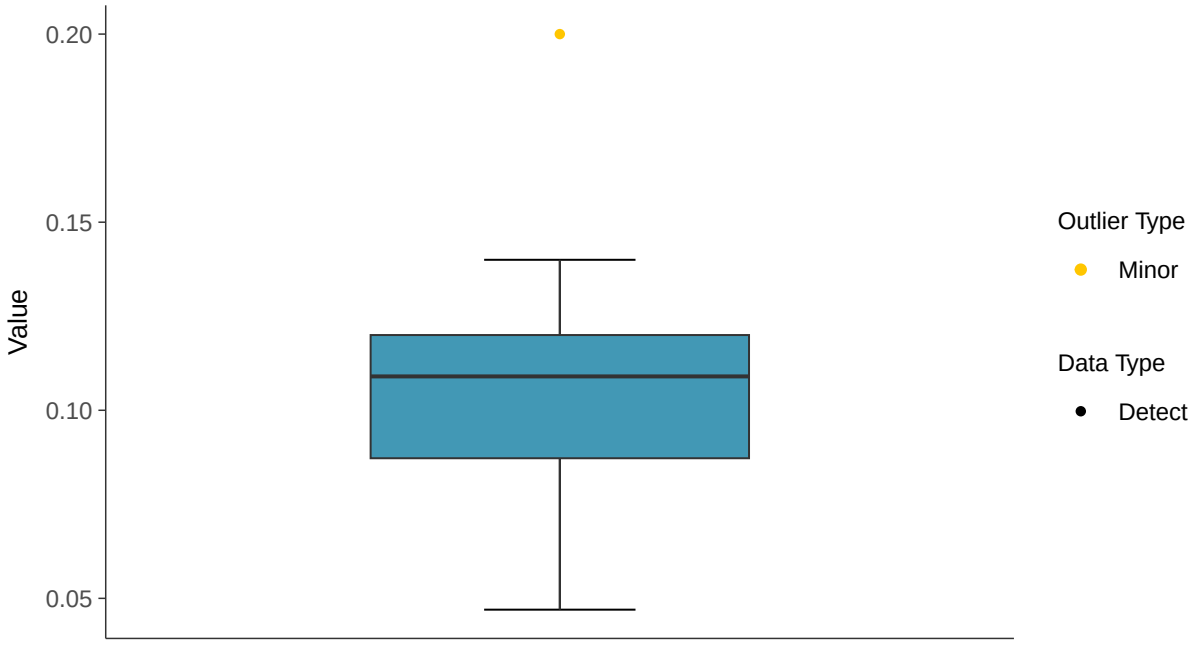
Histogram

Lithium, MW-38 (mg/L)



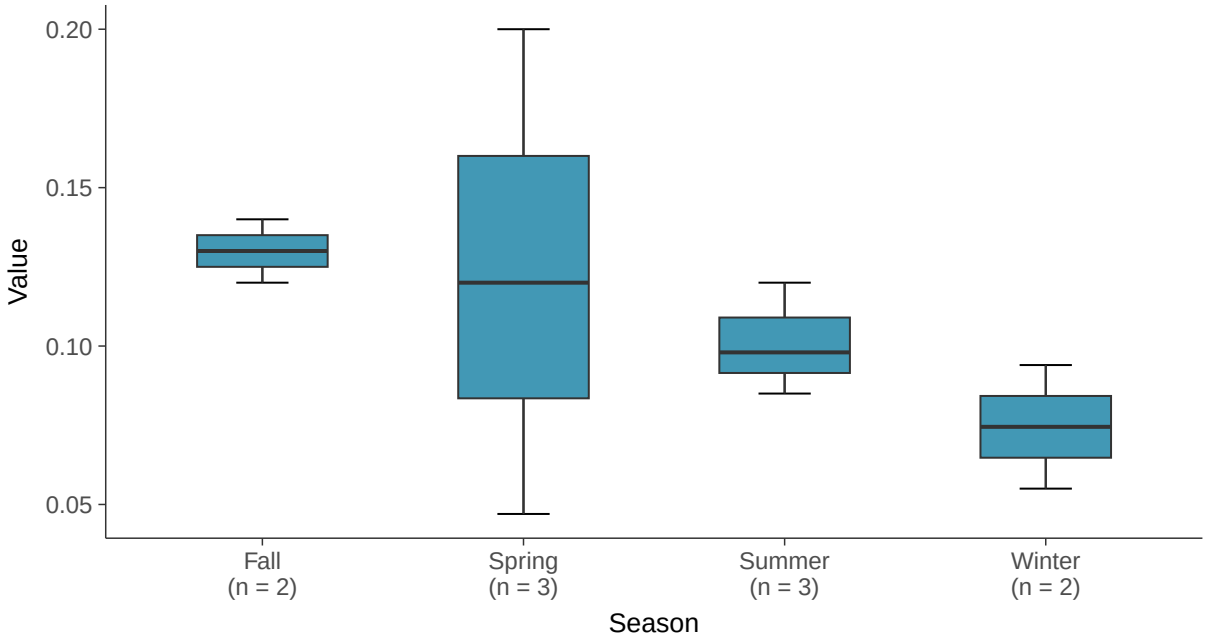
Boxplot

Lithium, MW-38 (mg/L)



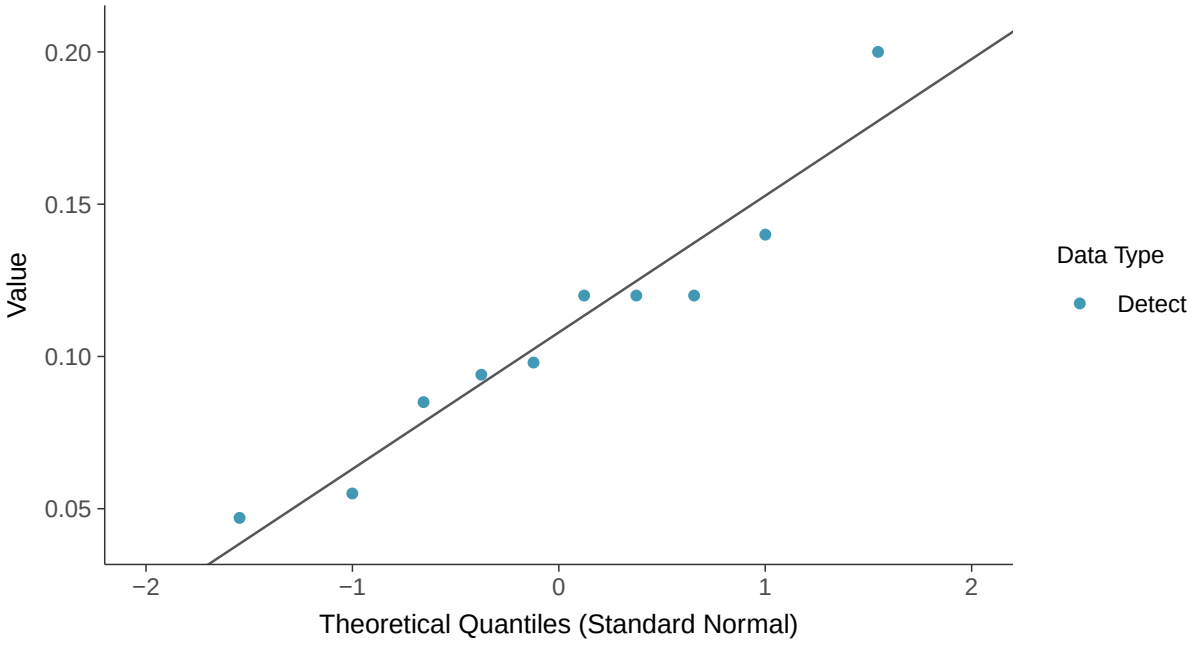
Boxplot by Season

Lithium, MW-38 (mg/L)



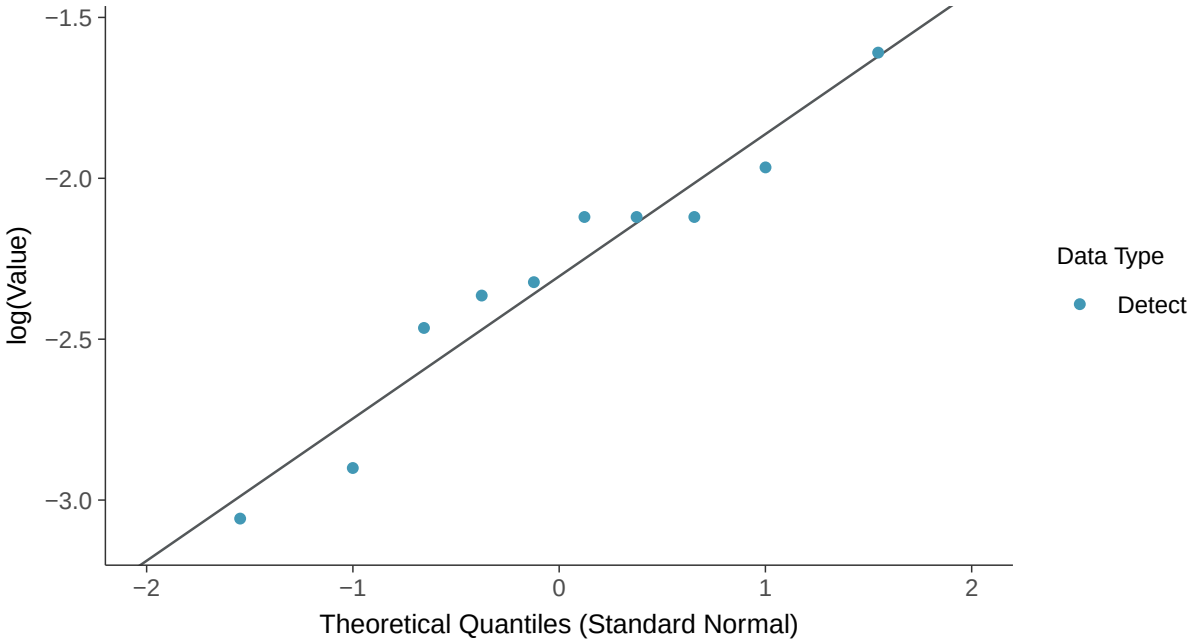
Normal Q-Q plot

Lithium, MW-38 (mg/L)



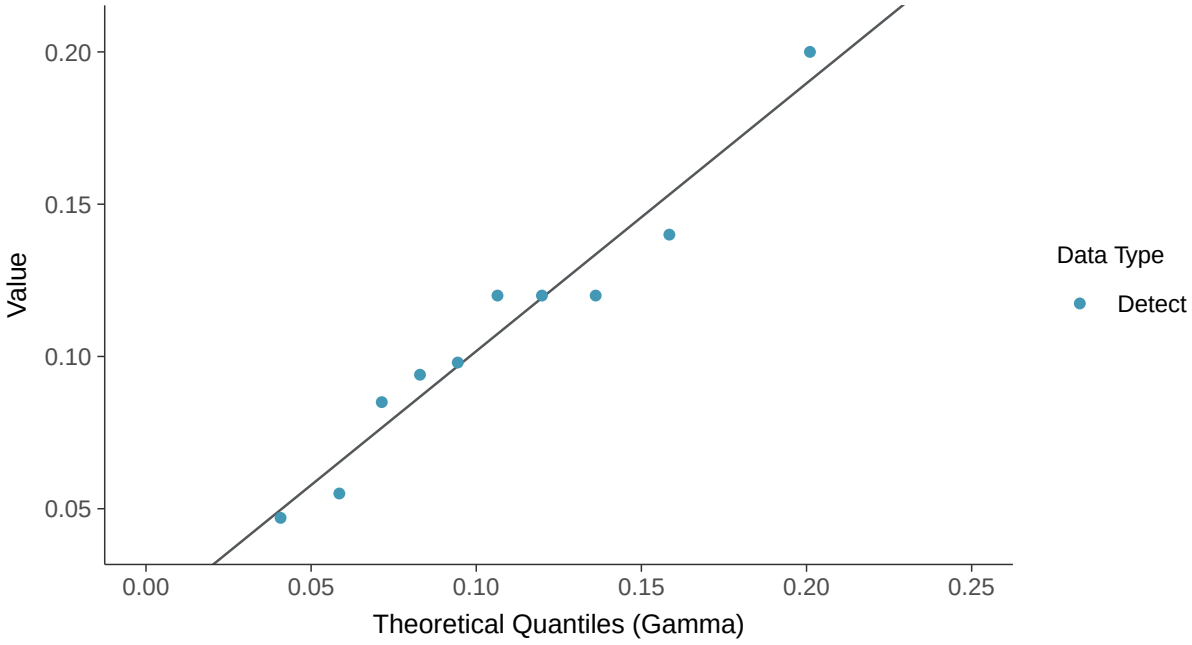
Lognormal Q-Q plot

Lithium, MW-38 (mg/L)



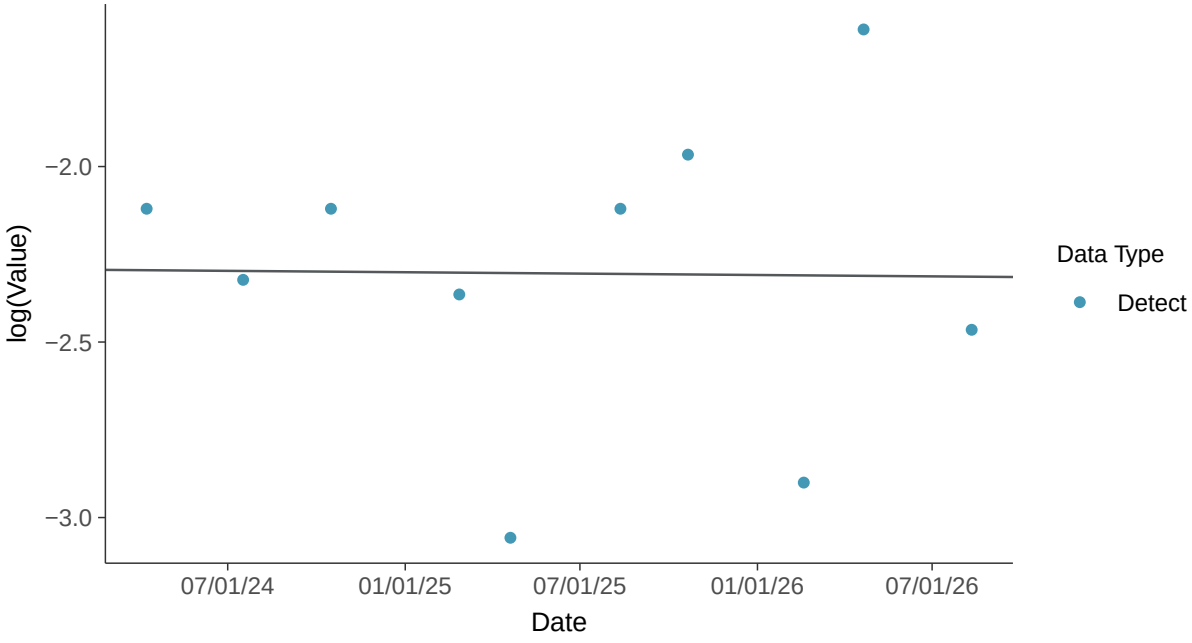
Gamma Q-Q plot

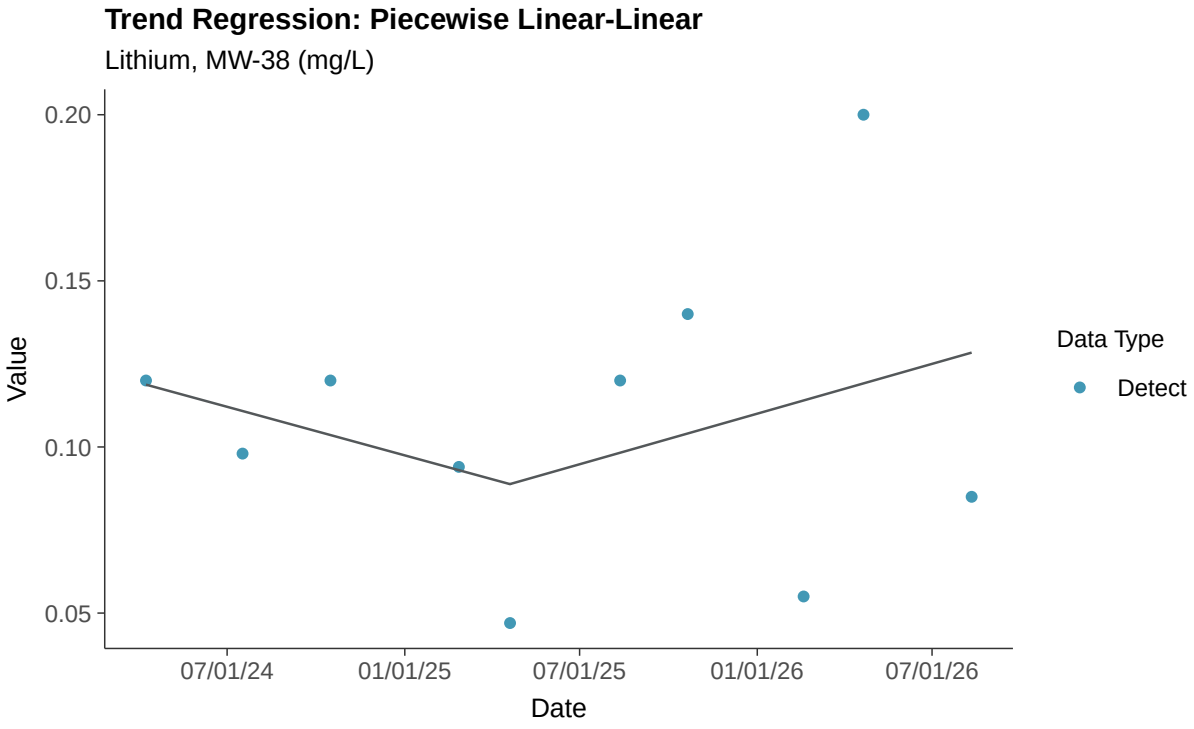
Lithium, MW-38 (mg/L)



Trend Regression: Lognormal MLE

Lithium, MW-38 (mg/L)



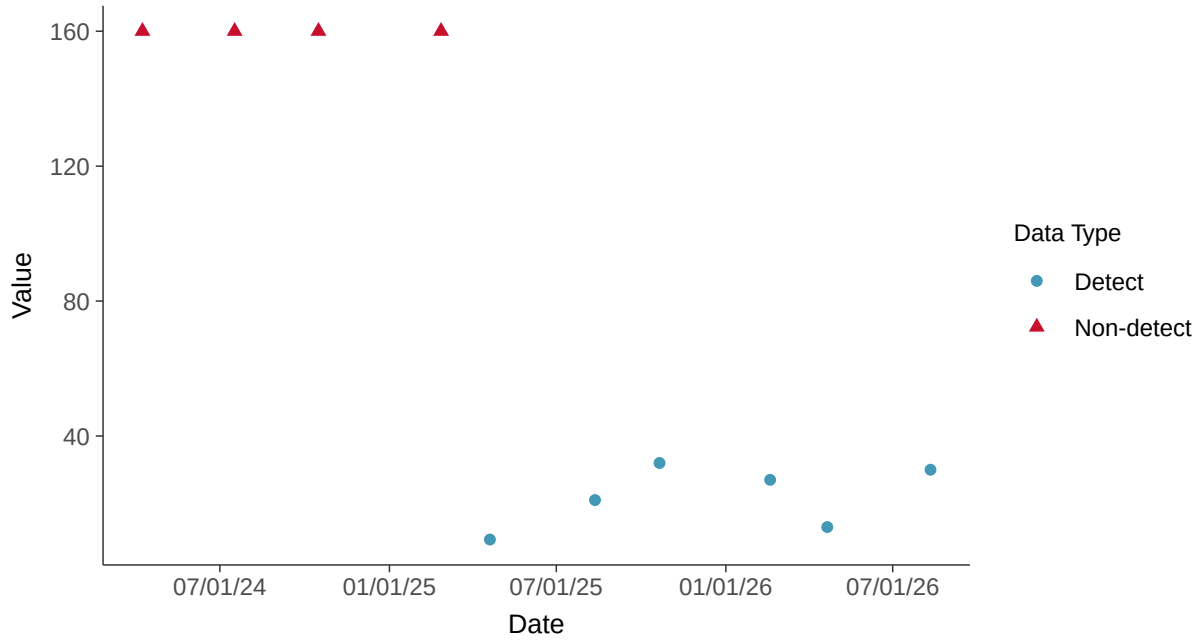

Trend Regression: Piecewise Linear-Linear
Lithium, MW-38 (mg/L)
0.20
0.15
0.10
0.05
Value
07/01/24
01/01/25
07/01/25
01/01/26
07/01/26
Date
Data Type
Detect

Appendix IV: Mercury, MW-38

ID: 48_2_4_117

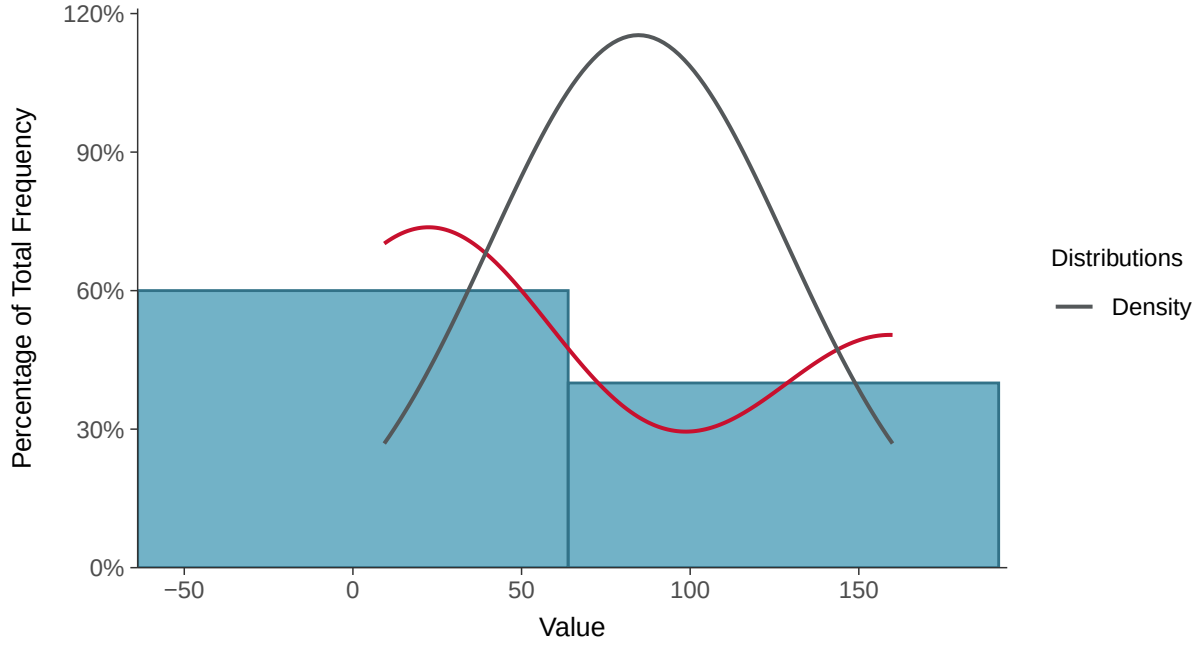
Scatter Plot

Mercury, MW-38 (ng/L)



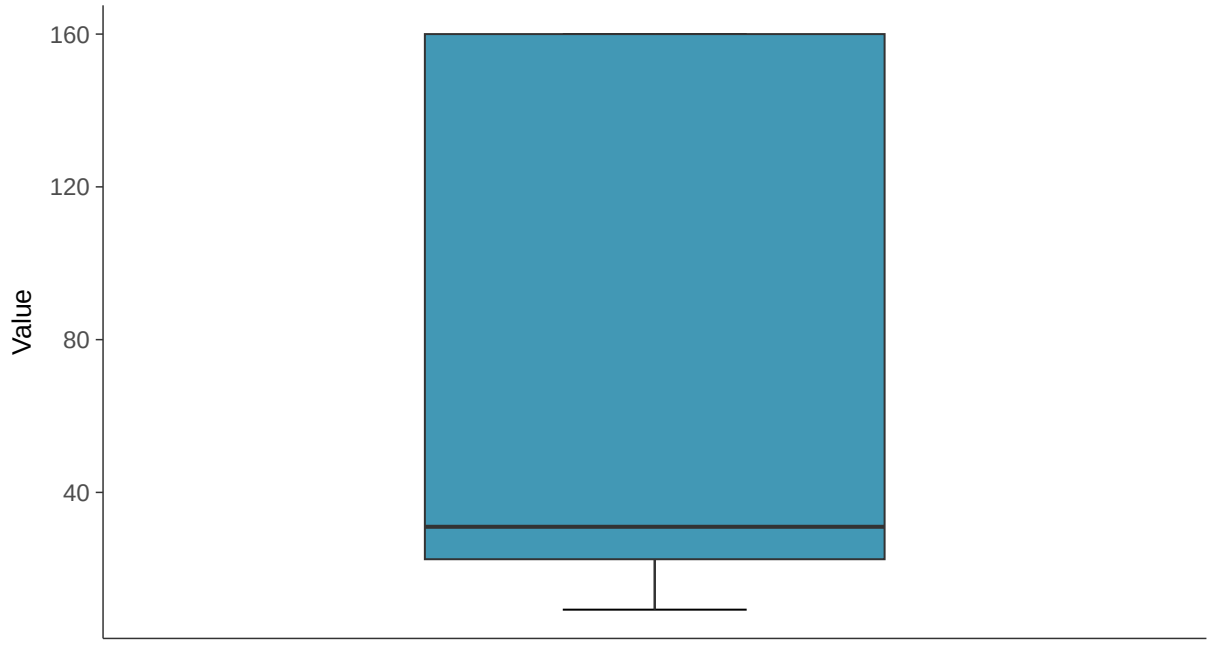
Histogram

Mercury, MW-38 (ng/L)



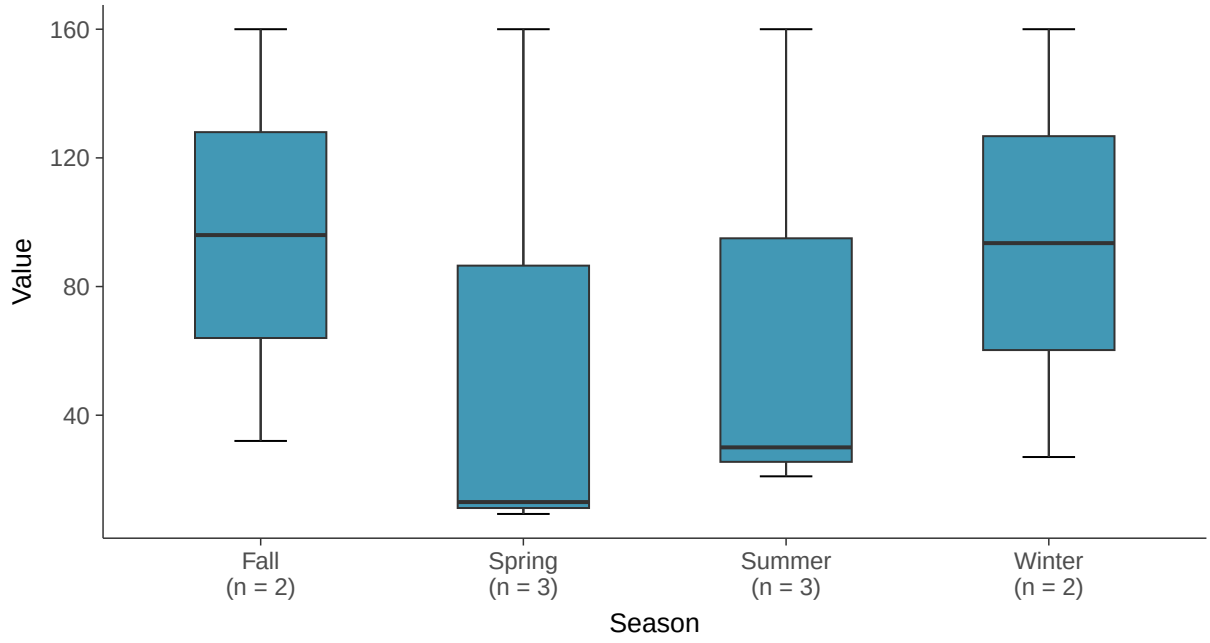
Boxplot

Mercury, MW-38 (ng/L)



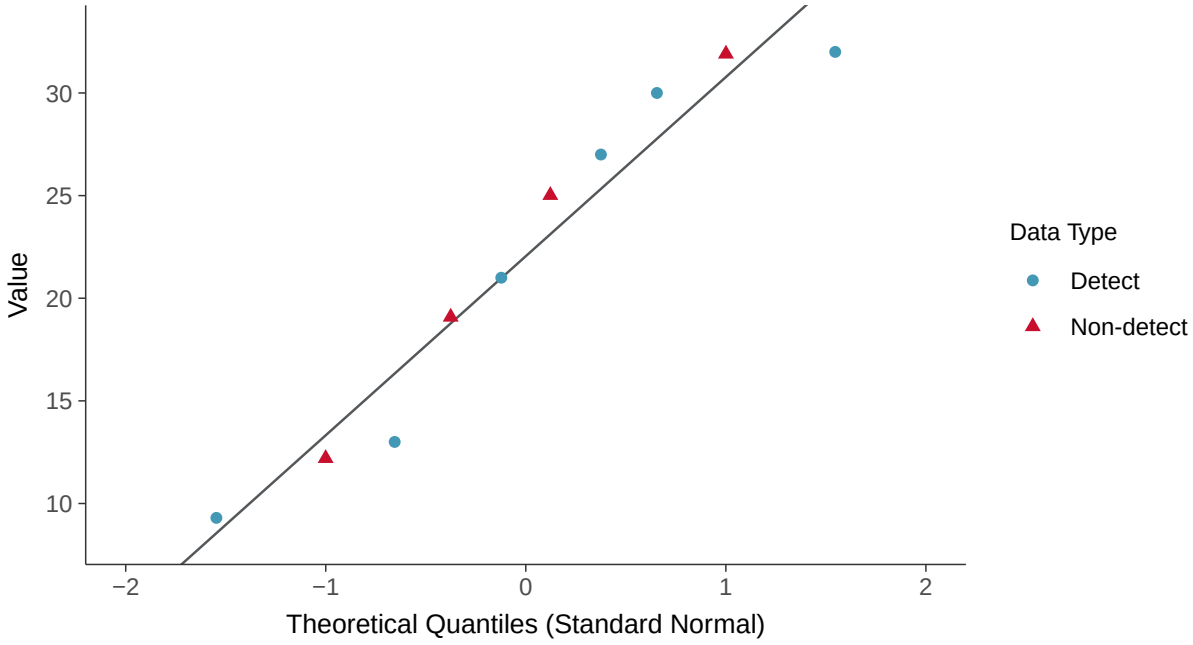
Boxplot by Season

Mercury, MW-38 (ng/L)



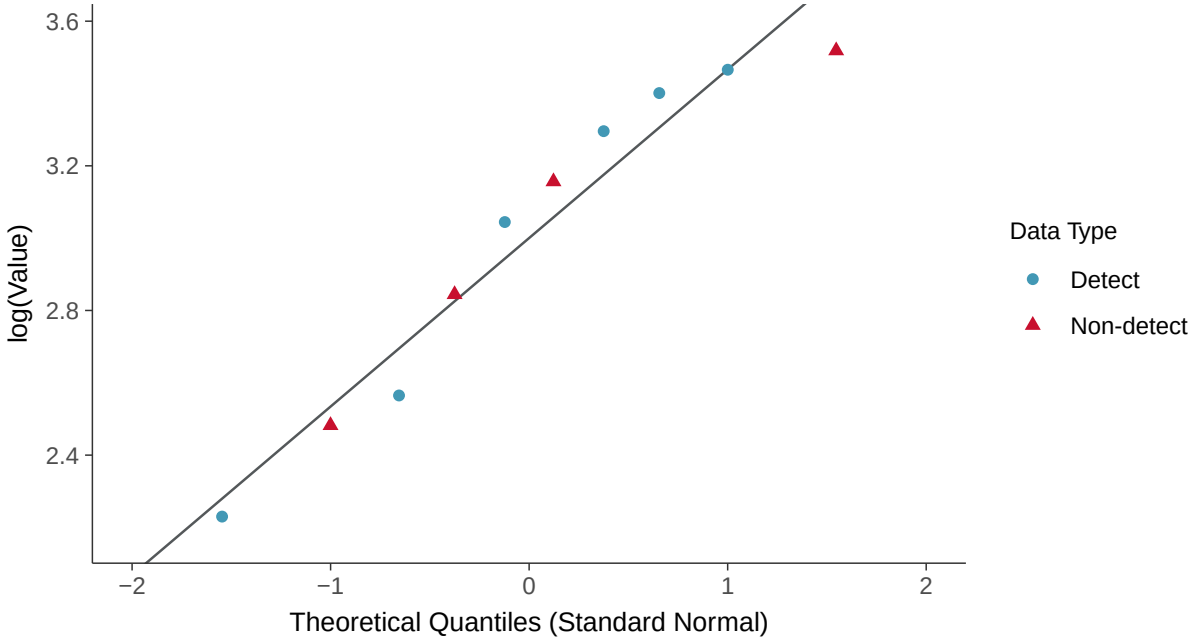
Normal Q-Q plot using ROS Imputed Estimates

Mercury, MW-38 (ng/L)



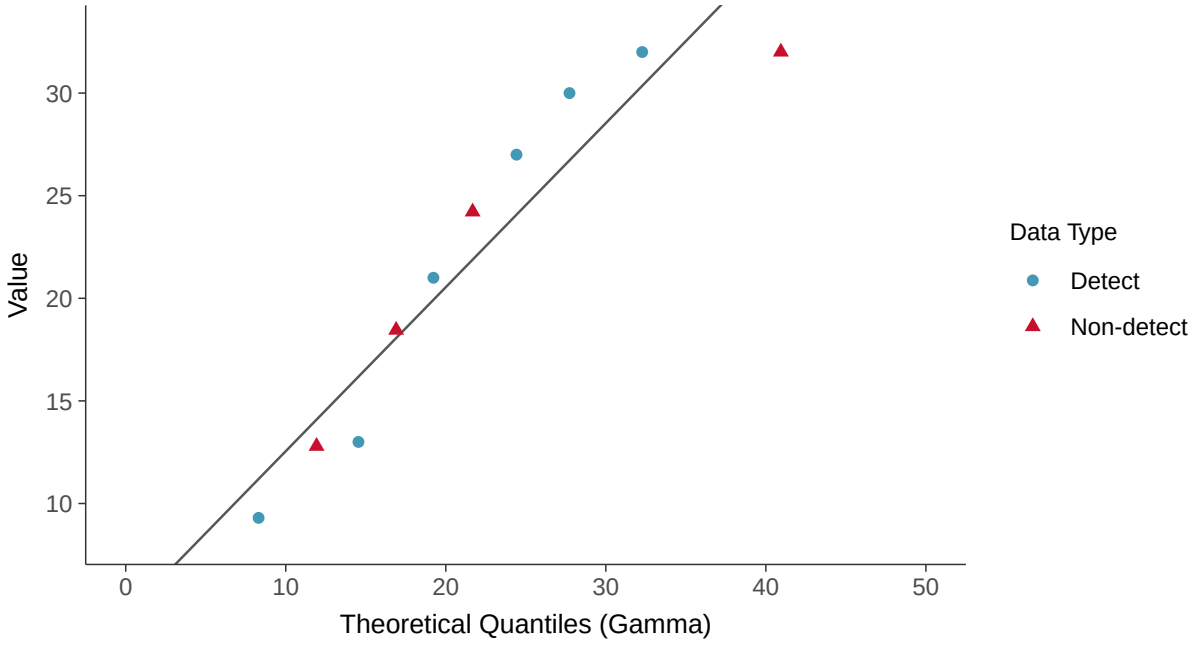
Lognormal Q-Q plot using ROS Imputed Estimates

Mercury, MW-38 (ng/L)



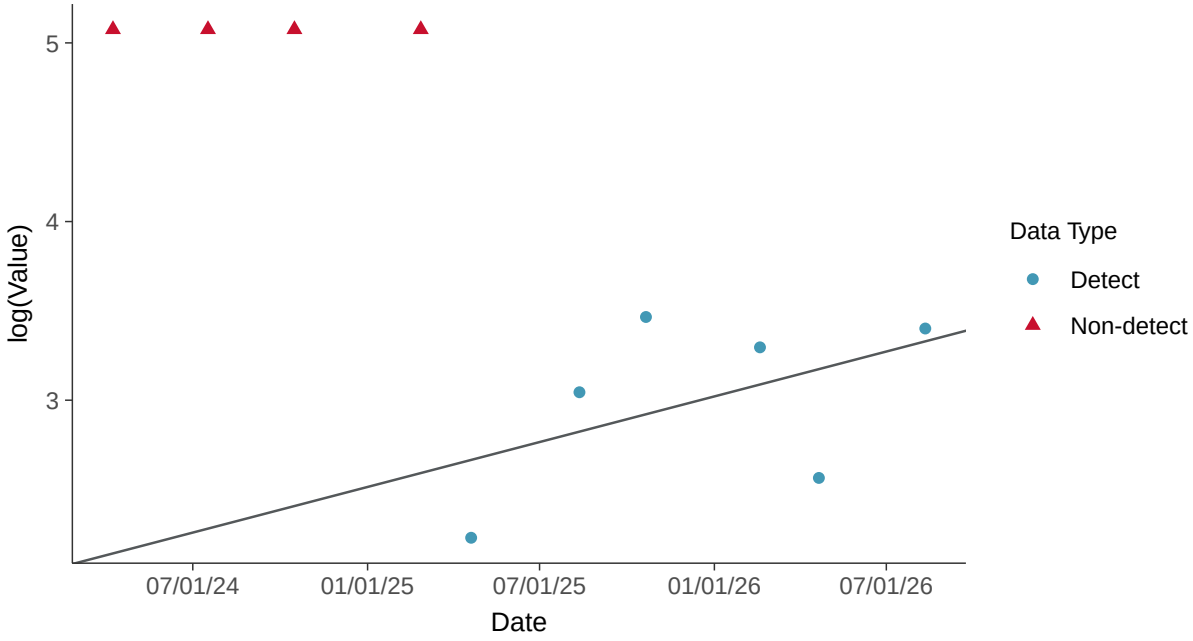
Gamma Q-Q plot using ROS Imputed Estimates

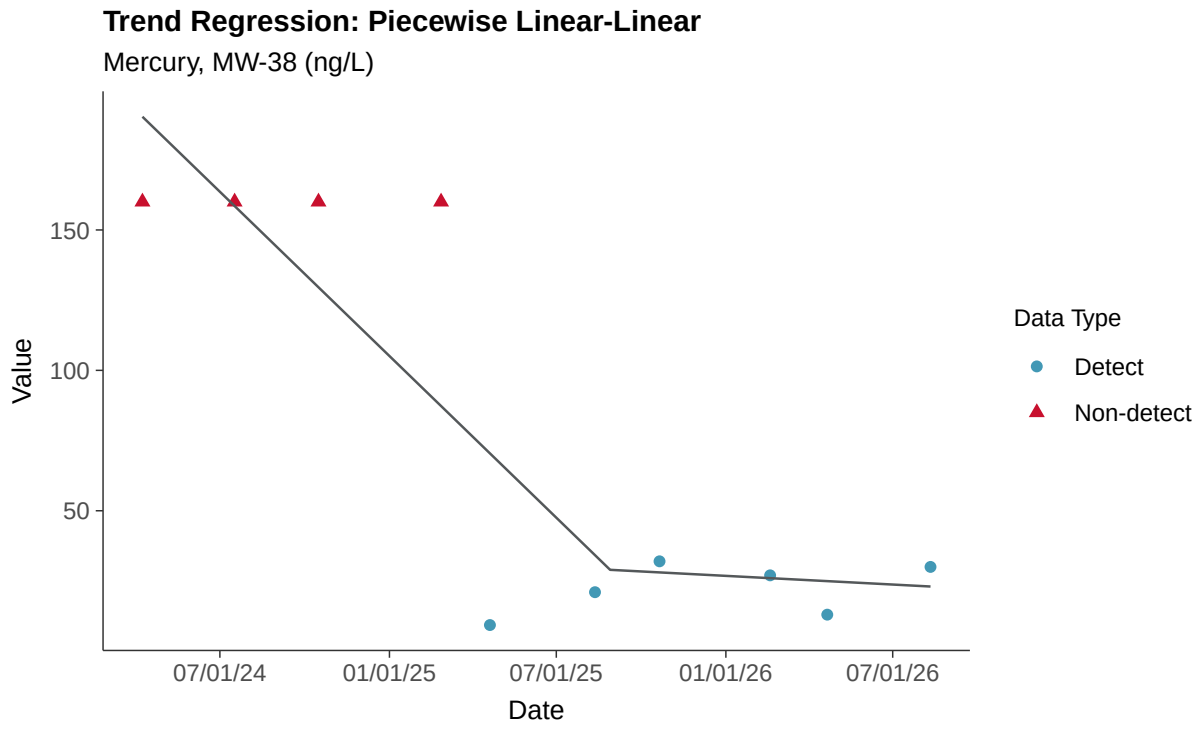
Mercury, MW-38 (ng/L)



Trend Regression: Lognormal MLE

Mercury, MW-38 (ng/L)



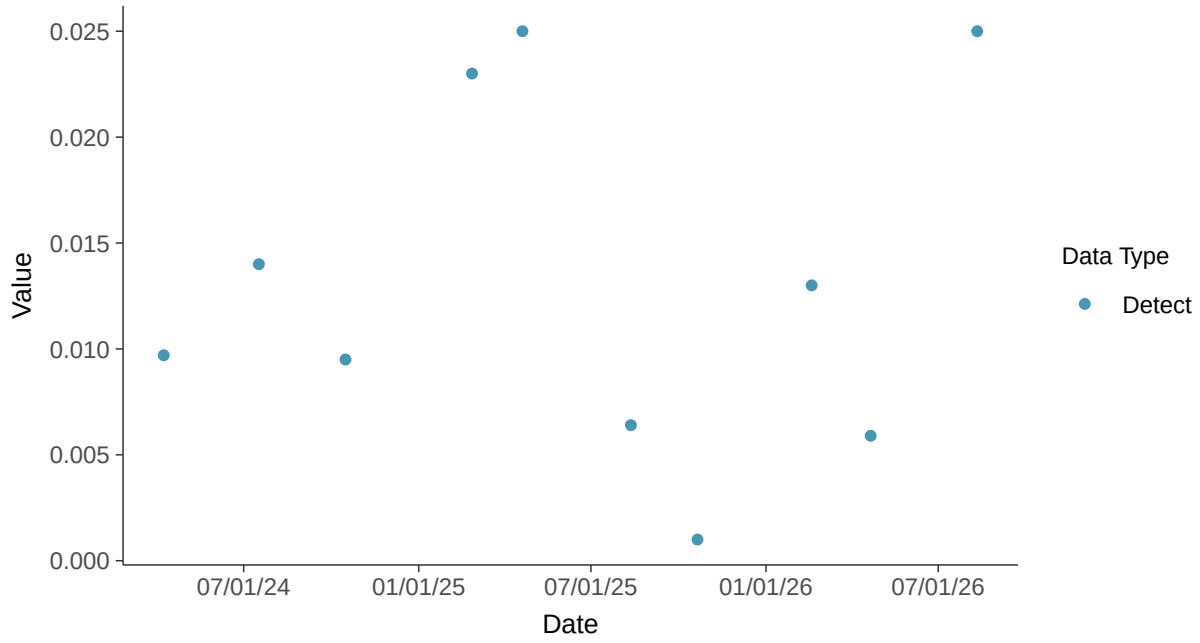

Trend Regression: Piecewise Linear-Linear
Mercury, MW-38 (ng/L)
Value
150
100
50
07/01/24
01/01/25
07/01/25
01/01/26
07/01/26
Date
Data Type
Detect
Non-detect

Appendix IV: Molybdenum, MW-38

ID: 48_2_4_118

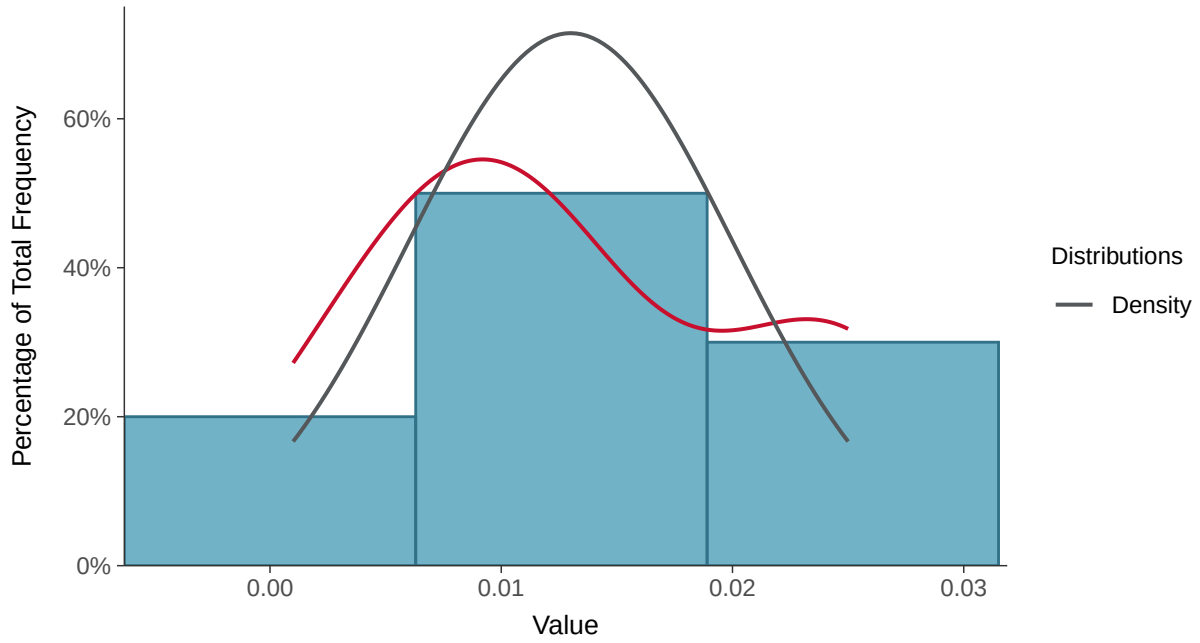
Scatter Plot

Molybdenum, MW-38 (mg/L)



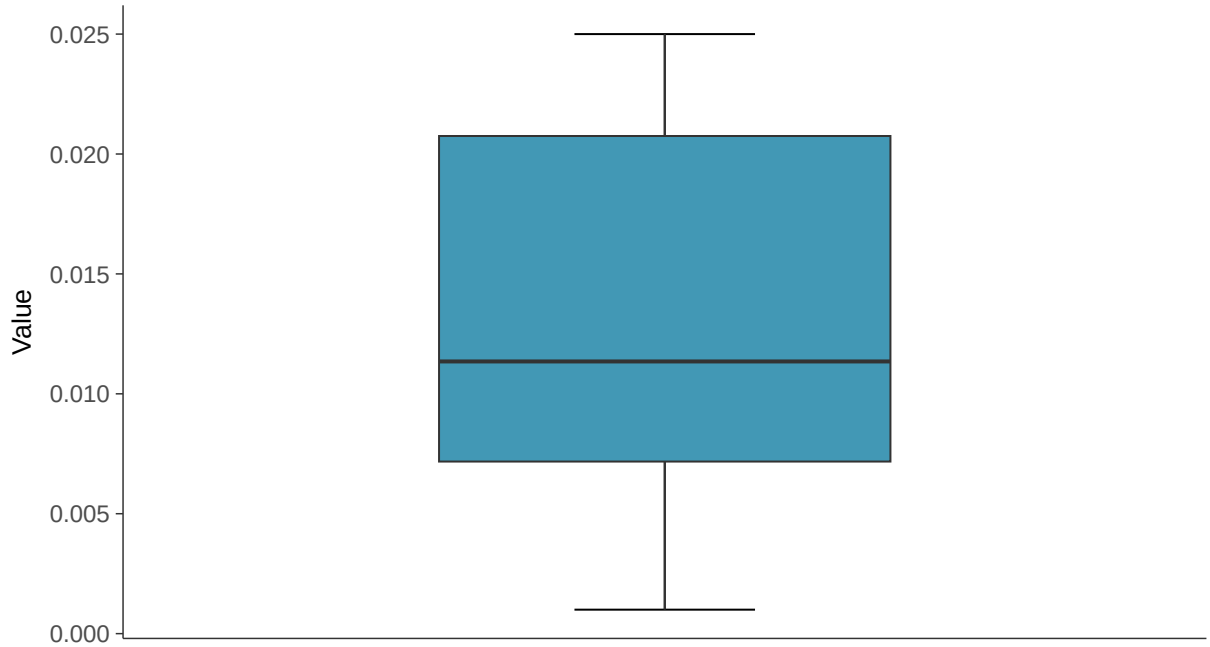
Histogram

Molybdenum, MW-38 (mg/L)



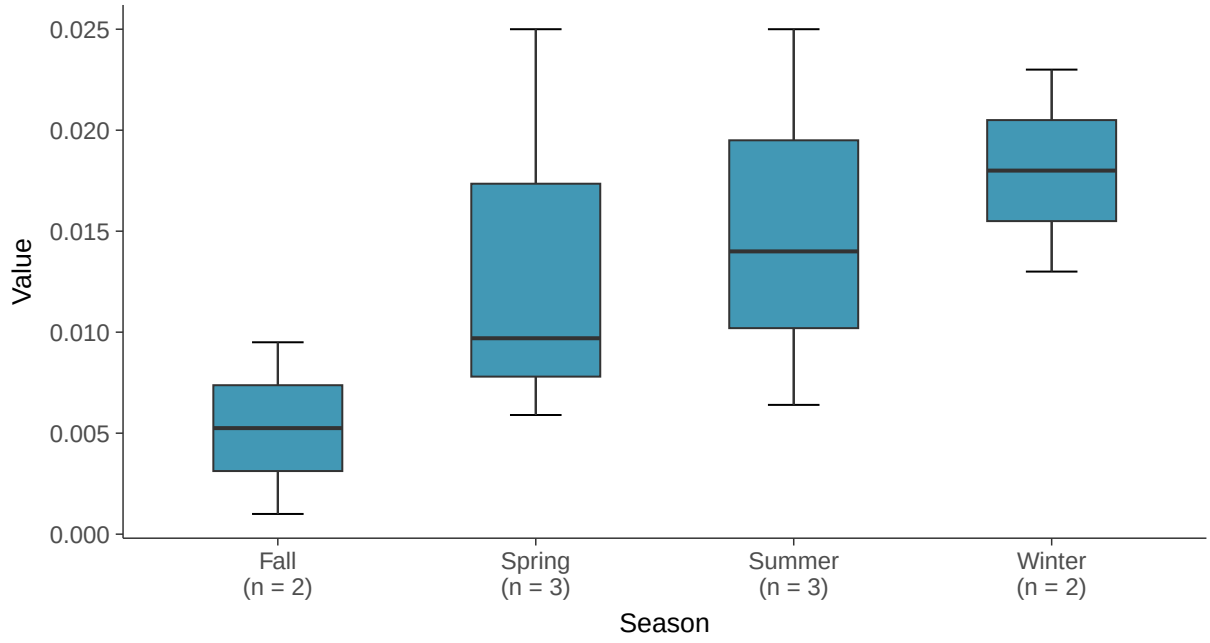
Boxplot

Molybdenum, MW-38 (mg/L)



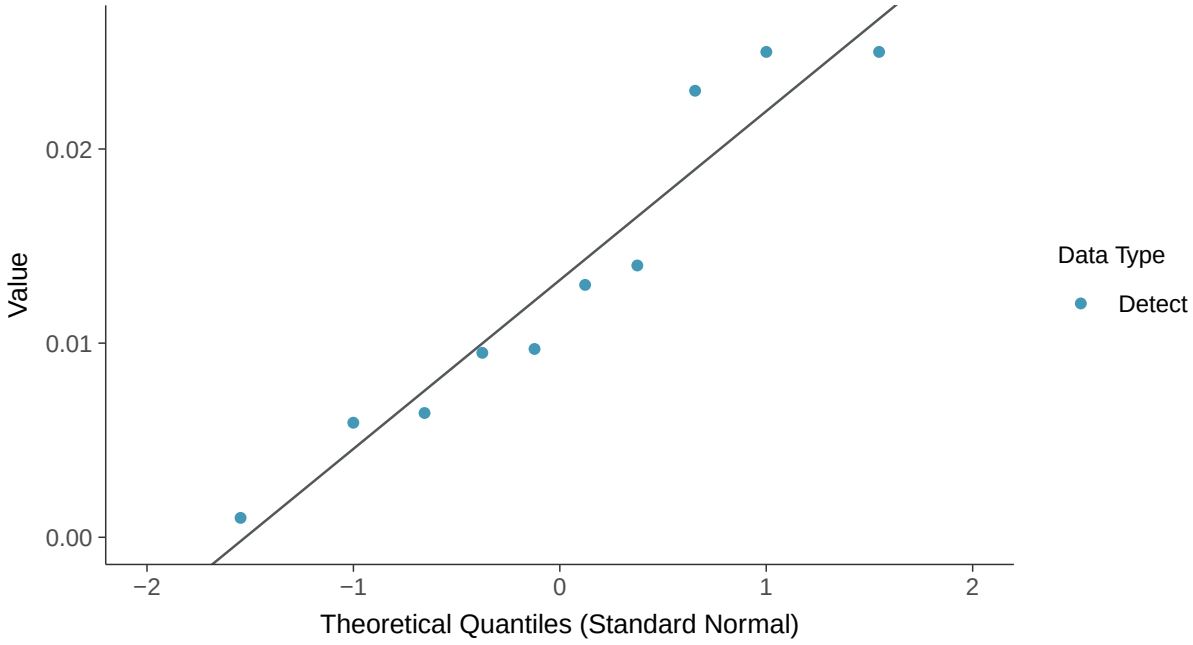
Boxplot by Season

Molybdenum, MW-38 (mg/L)



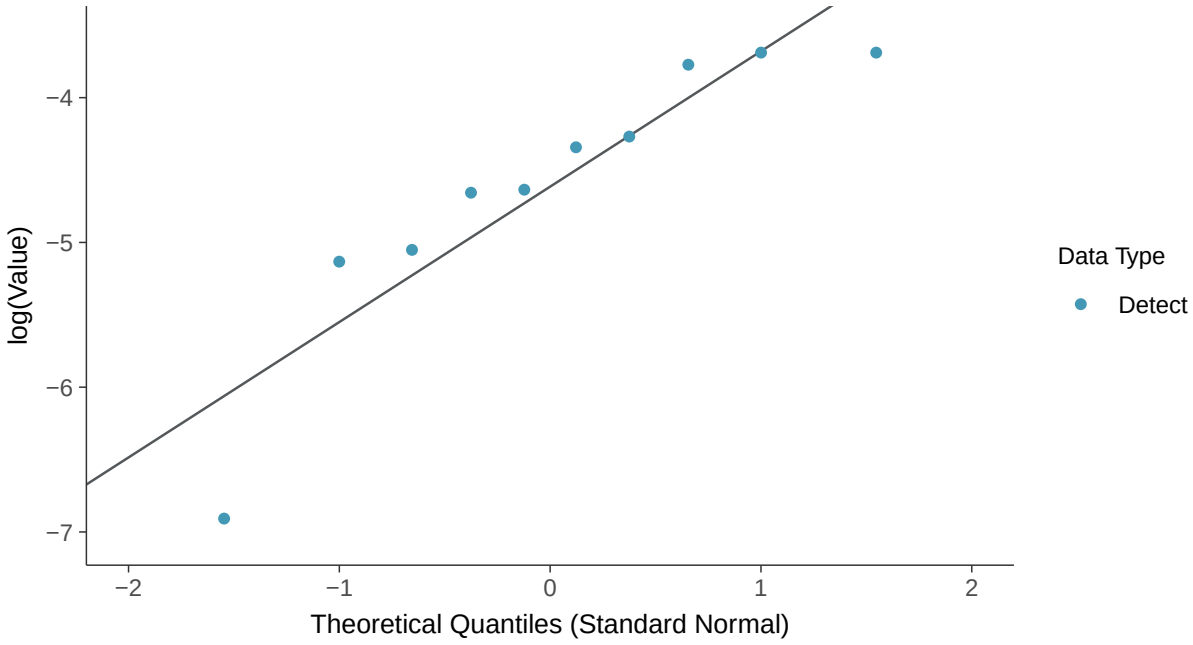
Normal Q-Q plot

Molybdenum, MW-38 (mg/L)



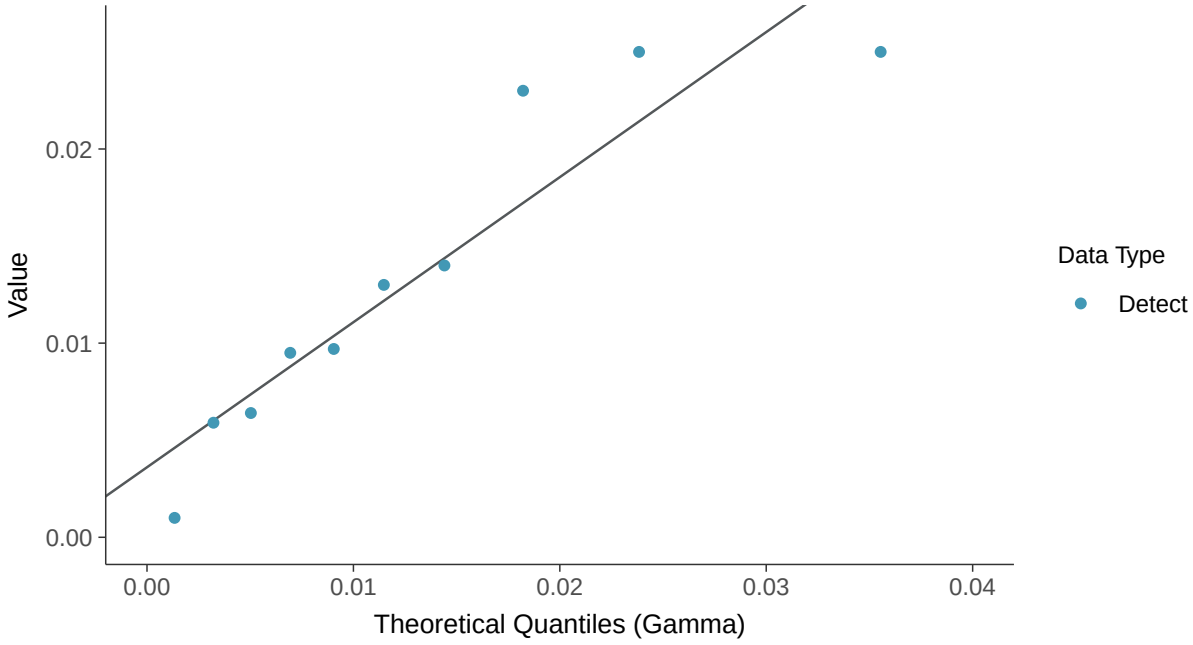
Lognormal Q-Q plot

Molybdenum, MW-38 (mg/L)



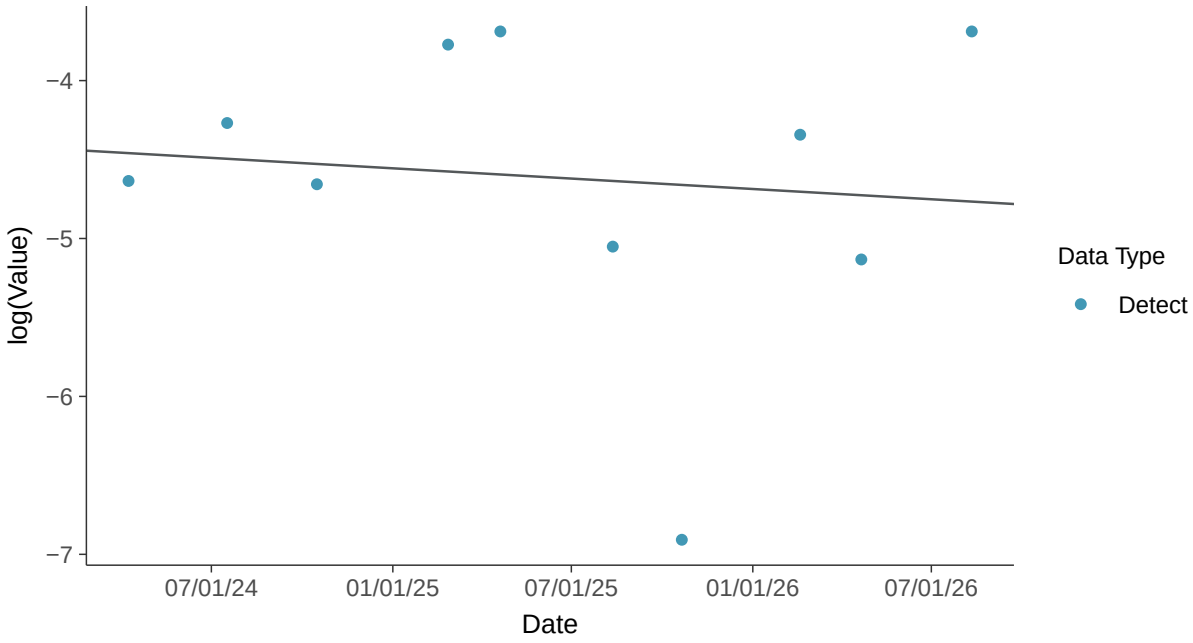
Gamma Q-Q plot

Molybdenum, MW-38 (mg/L)



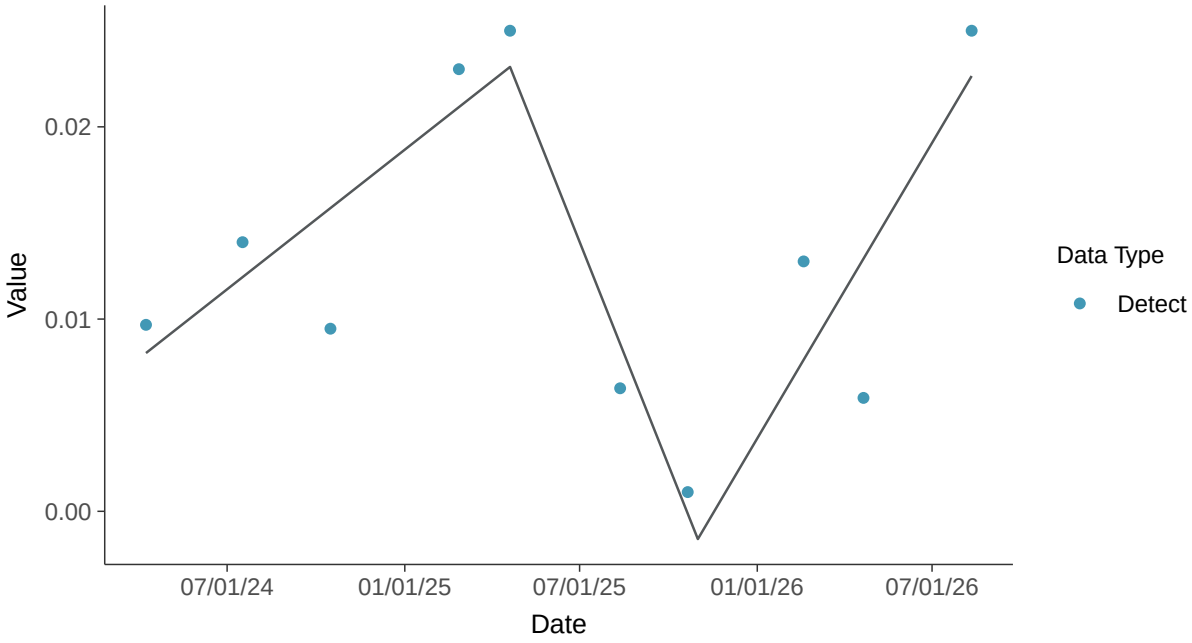
Trend Regression: Lognormal MLE

Molybdenum, MW-38 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Molybdenum, MW-38 (mg/L)

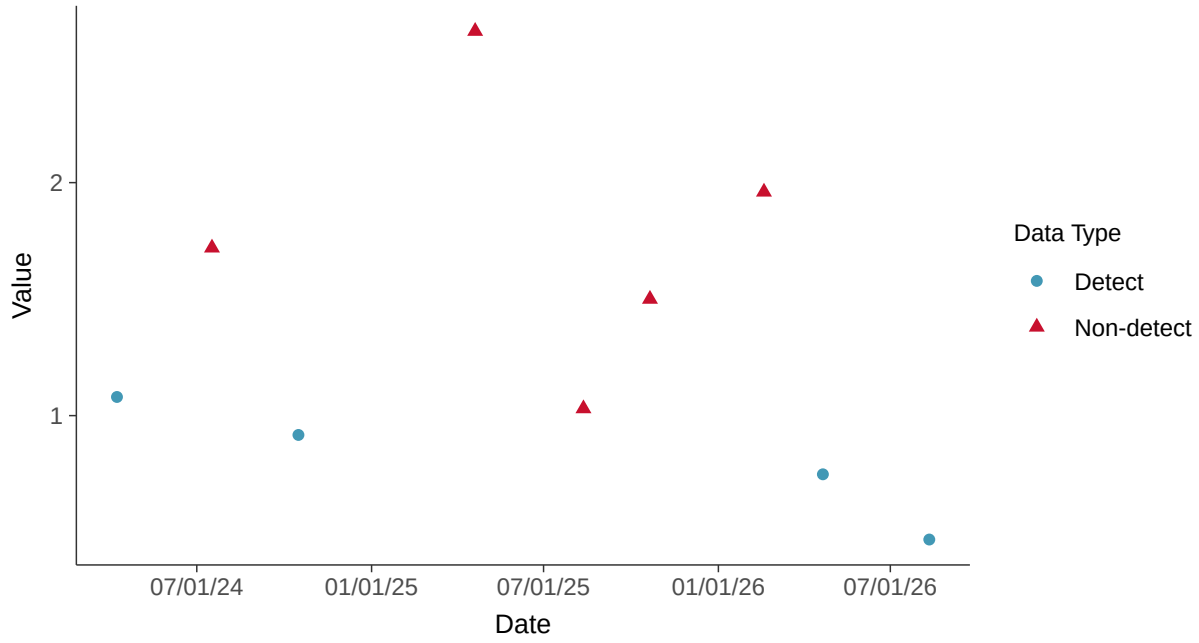


Appendix IV: Radium 226 and 228, MW-38

ID: 48_2_4_121

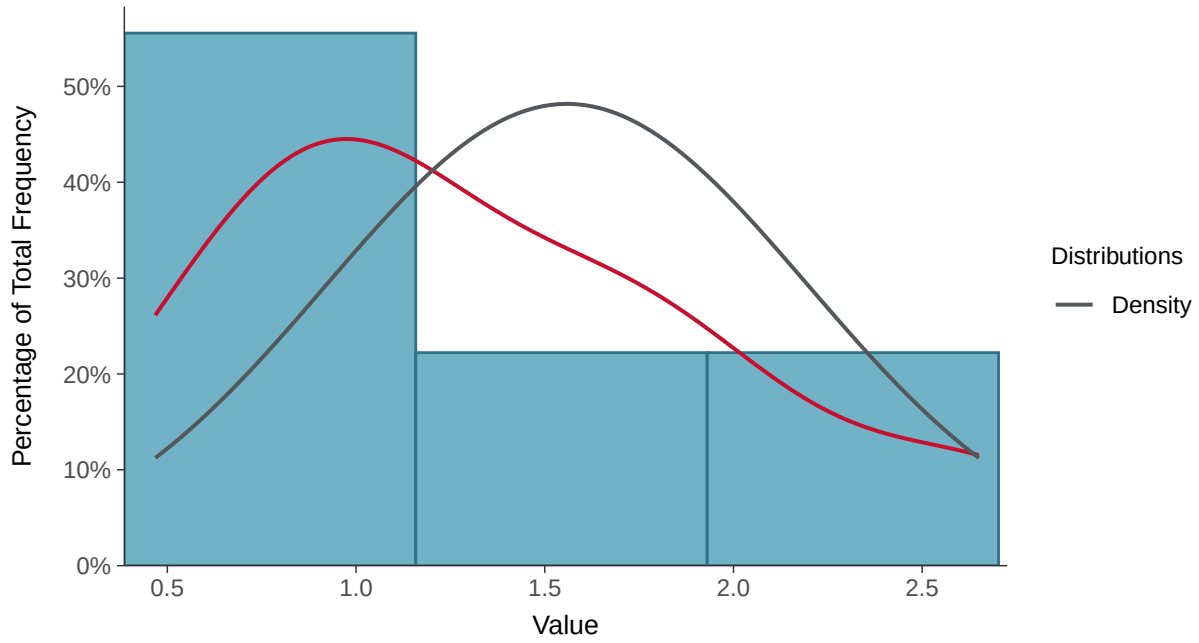
Scatter Plot

Radium 226 and 228, MW-38 (pCi/L)



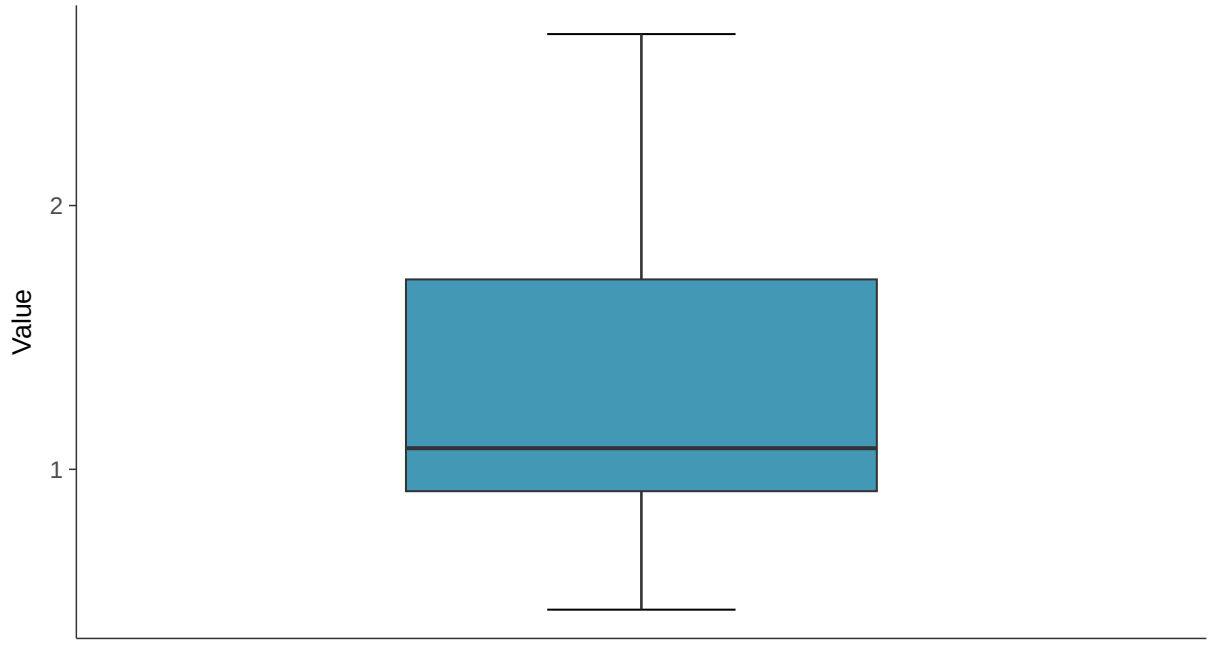
Histogram

Radium 226 and 228, MW-38 (pCi/L)



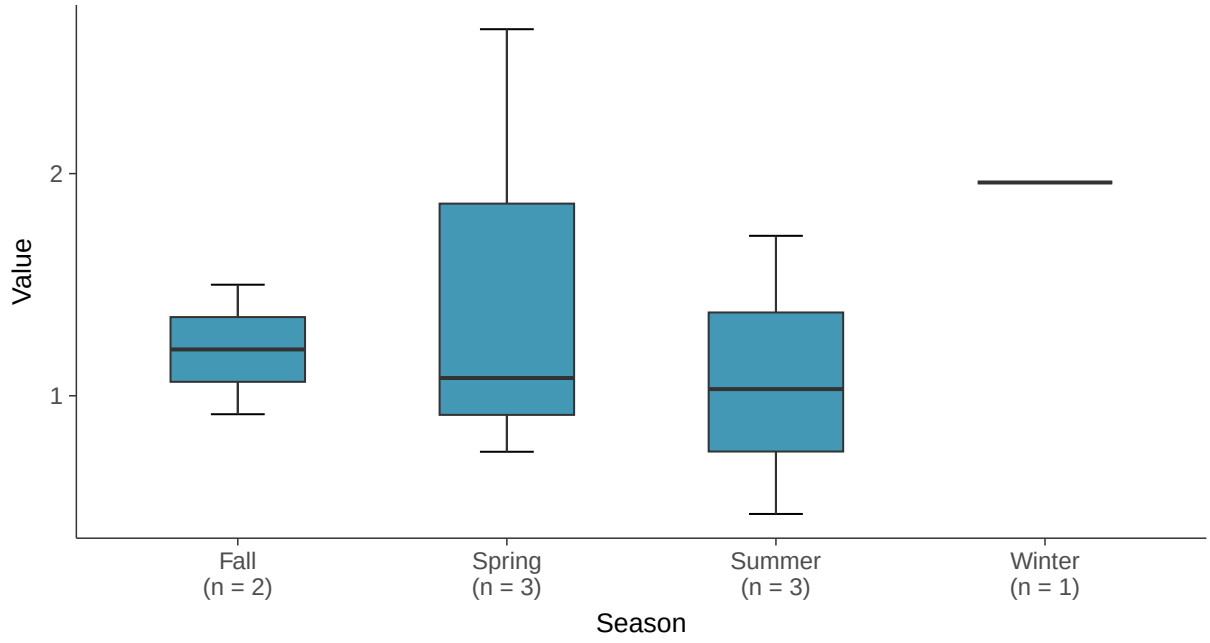
Boxplot

Radium 226 and 228, MW-38 (pCi/L)



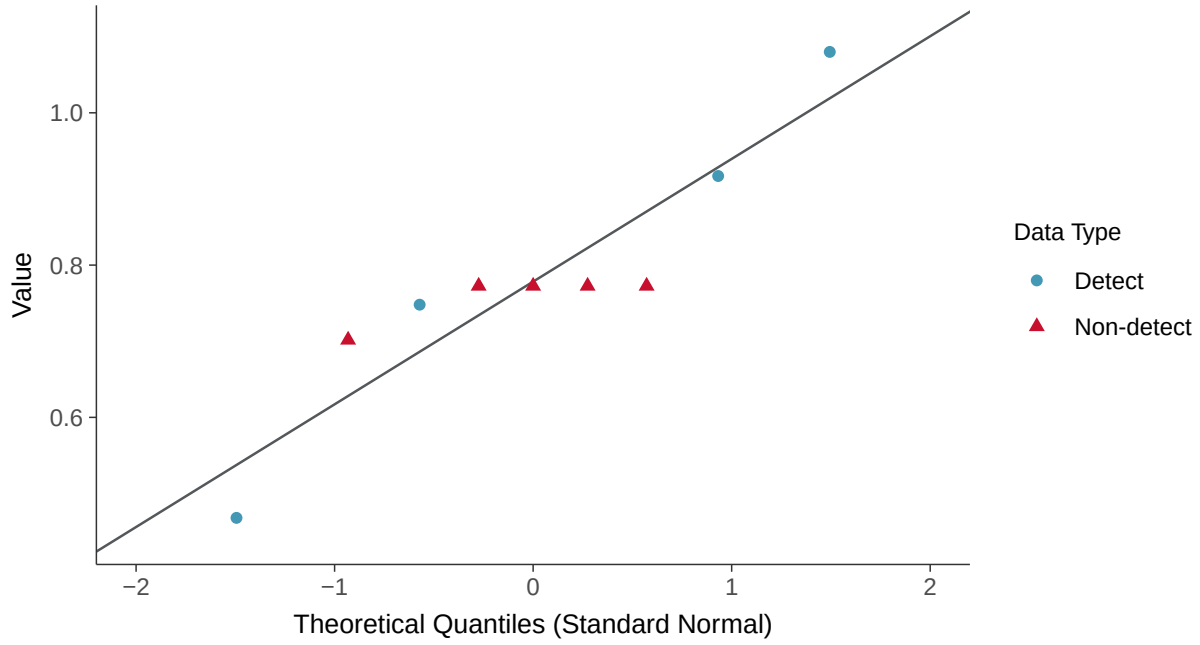
Boxplot by Season

Radium 226 and 228, MW-38 (pCi/L)



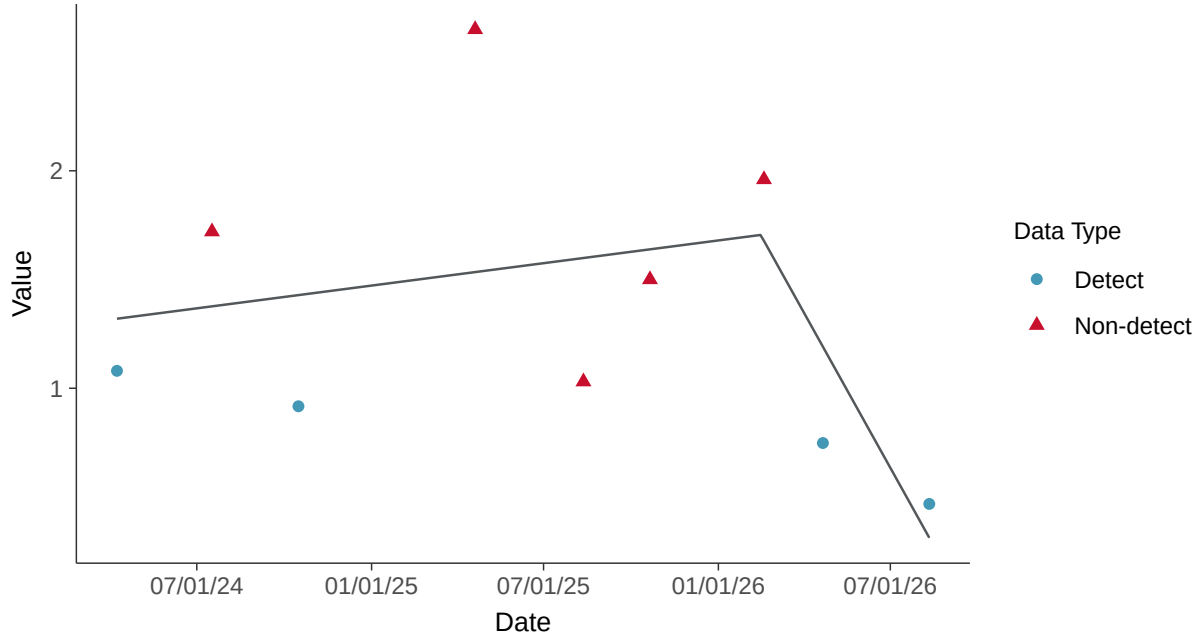
Normal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-38 (pCi/L)



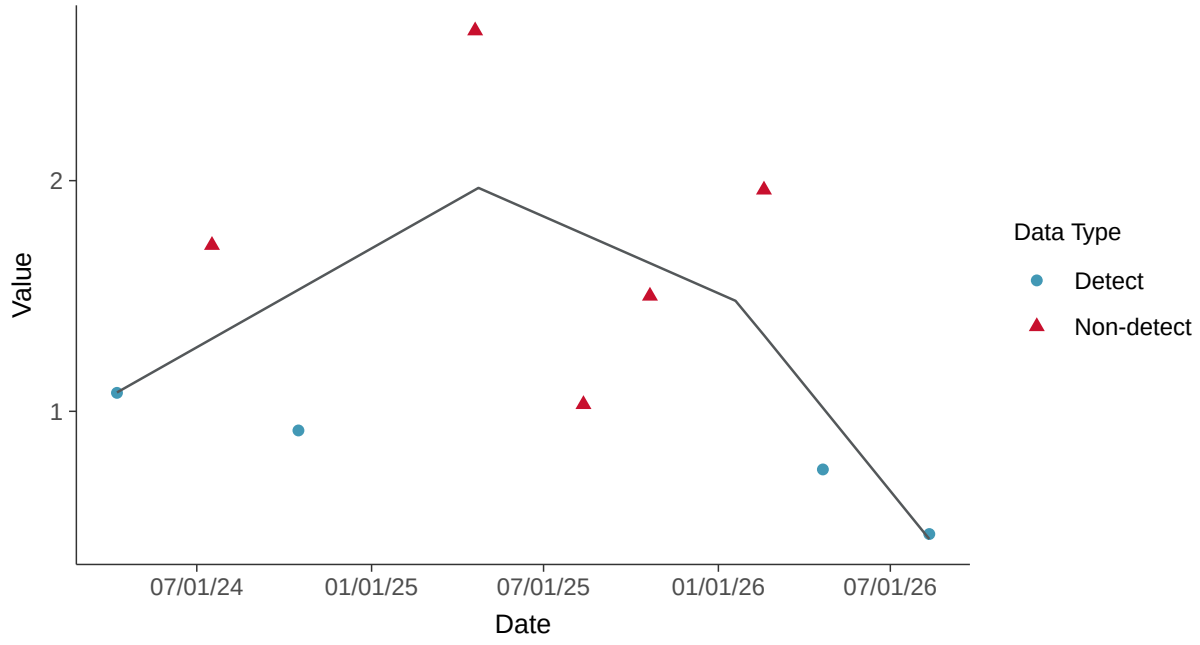
Trend Regression: Piecewise Linear-Linear

Radium 226 and 228, MW-38 (pCi/L)



Trend Regression: Piecewise Linear-Linear-Linear

Radium 226 and 228, MW-38 (pCi/L)

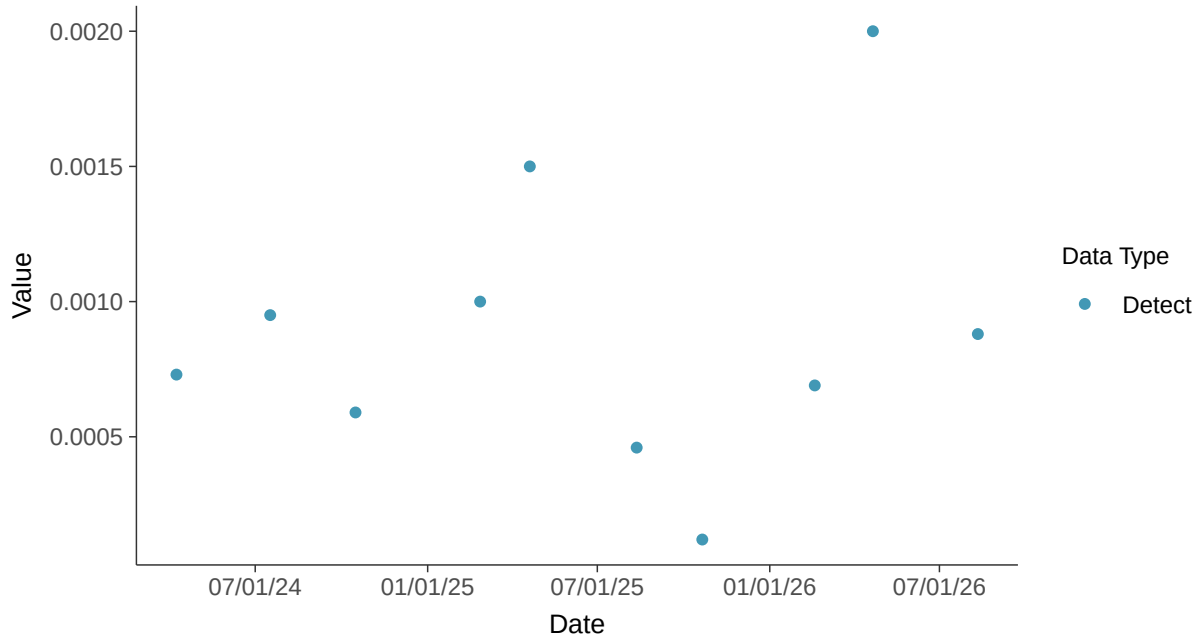


Appendix IV: Selenium, MW-38

ID: 48_2_4_122

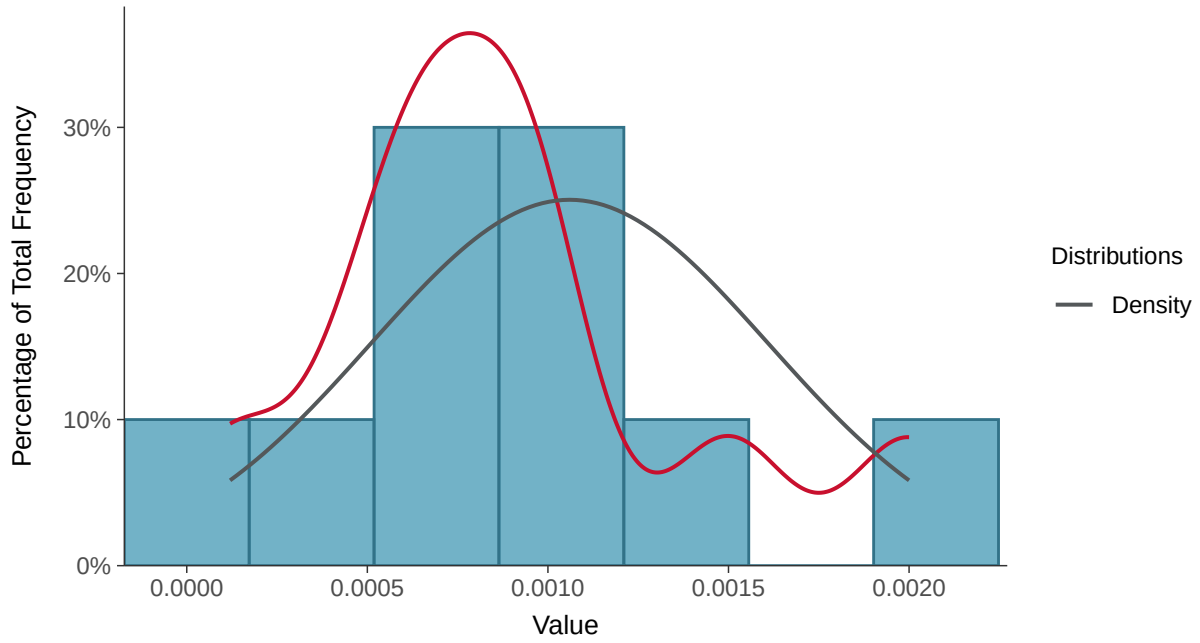
Scatter Plot

Selenium, MW-38 (mg/L)



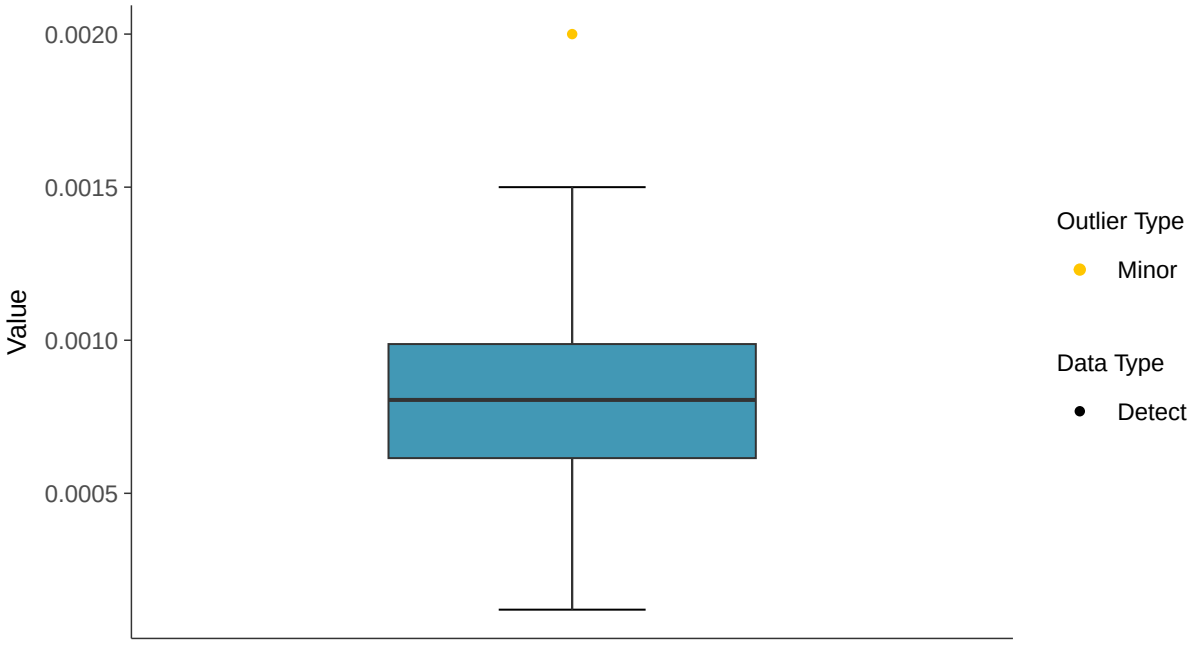
Histogram

Selenium, MW-38 (mg/L)



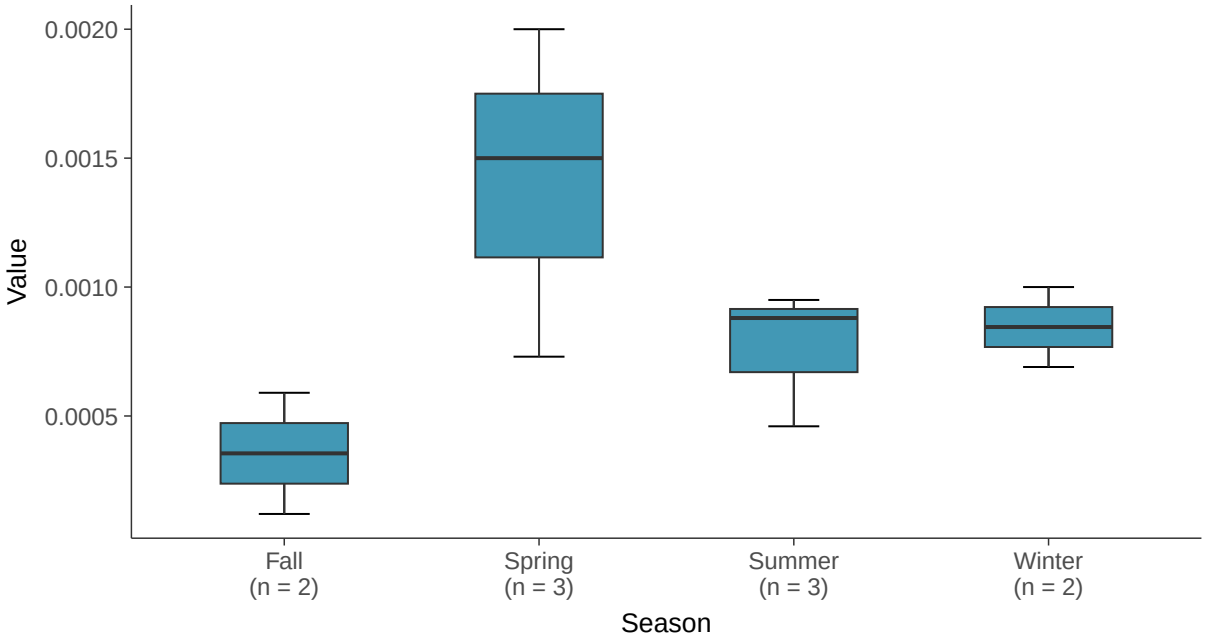
Boxplot

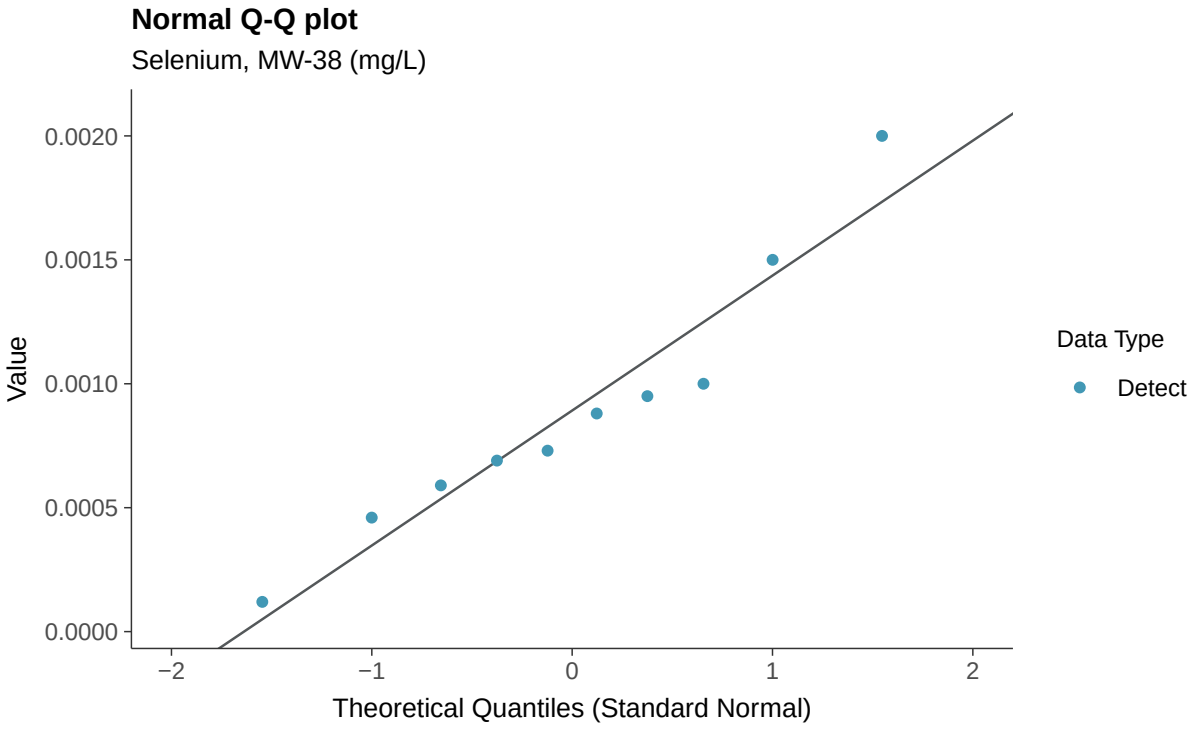
Selenium, MW-38 (mg/L)

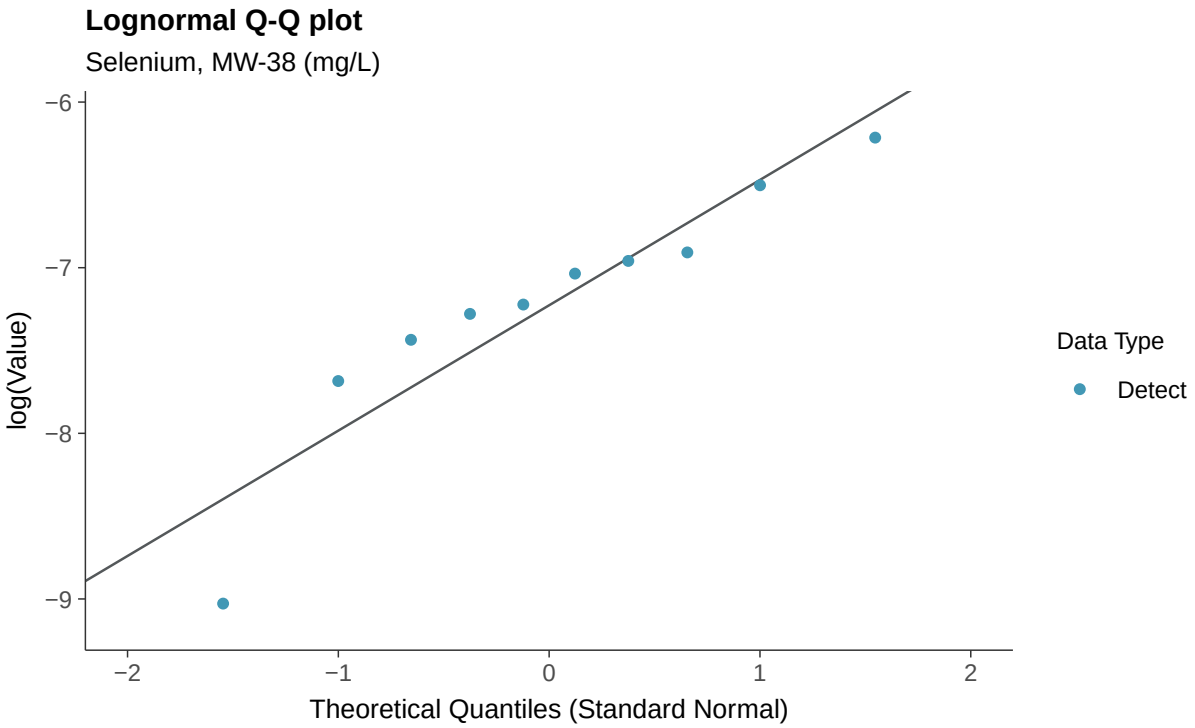


Boxplot by Season

Selenium, MW-38 (mg/L)

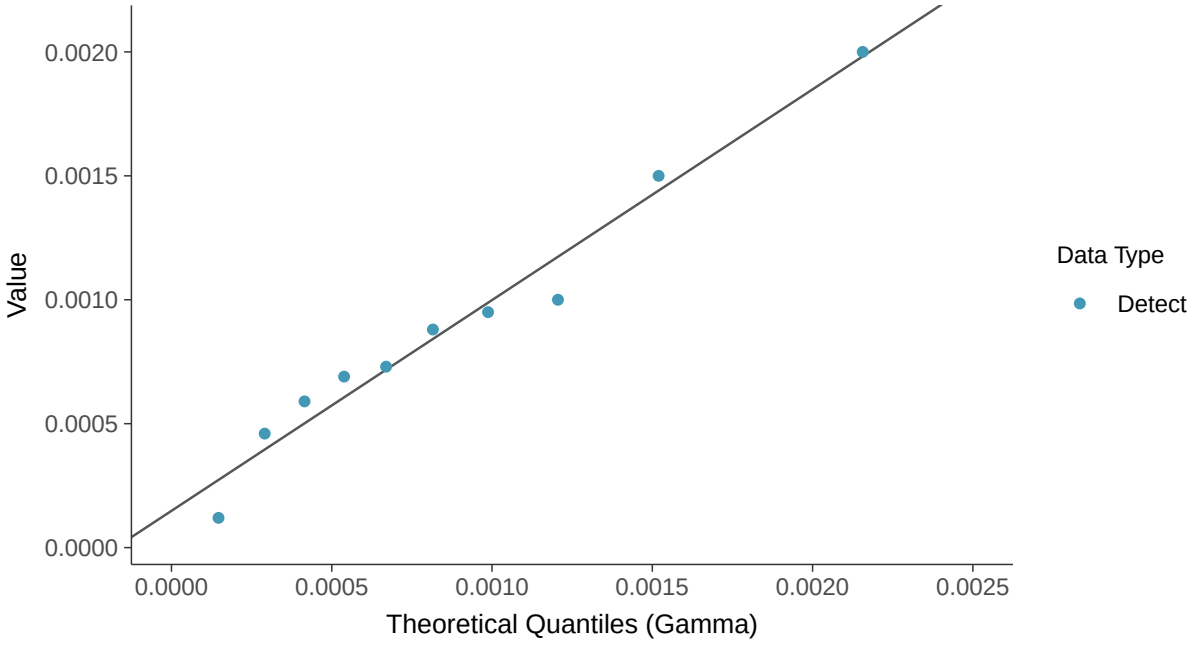



Normal Q-Q plot
Selenium, MW-38 (mg/L)
Value
0.0020
0.0015
0.0010
0.0005
0.0000
−2
−1
0
1
2
Theoretical Quantiles (Standard Normal)
Data Type
Detect


Lognormal Q-Q plot
Selenium, MW-38 (mg/L)
log(Value)
−6
−7
−8
−9
−2
−1
0
1
2
Theoretical Quantiles (Standard Normal)
Data Type
Detect

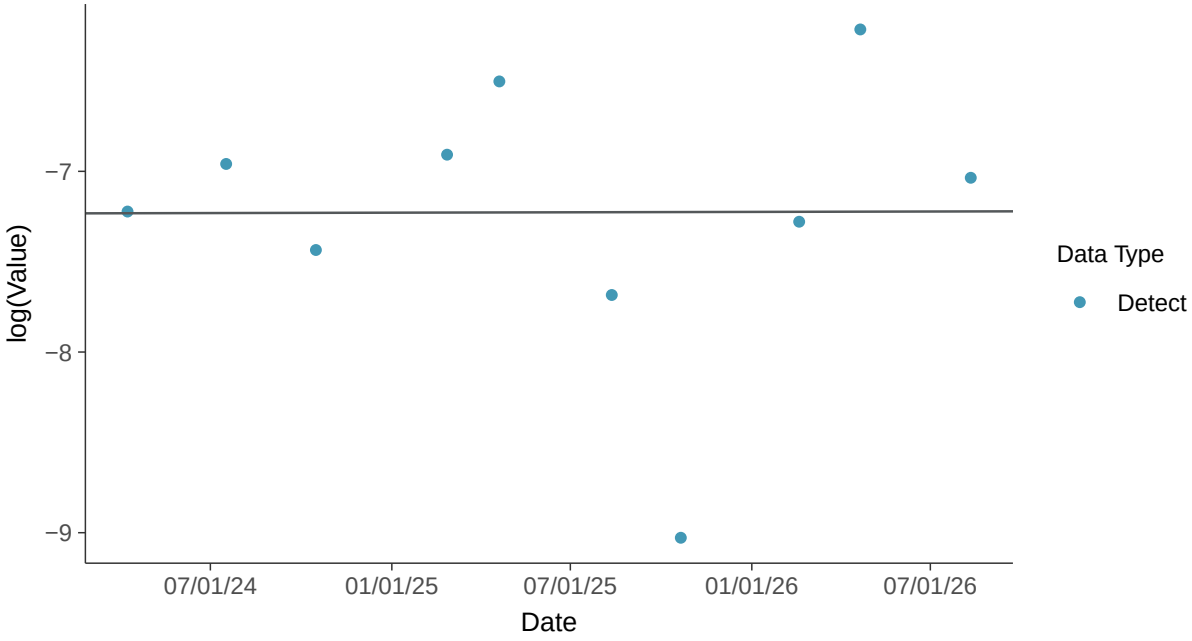
Gamma Q-Q plot

Selenium, MW-38 (mg/L)



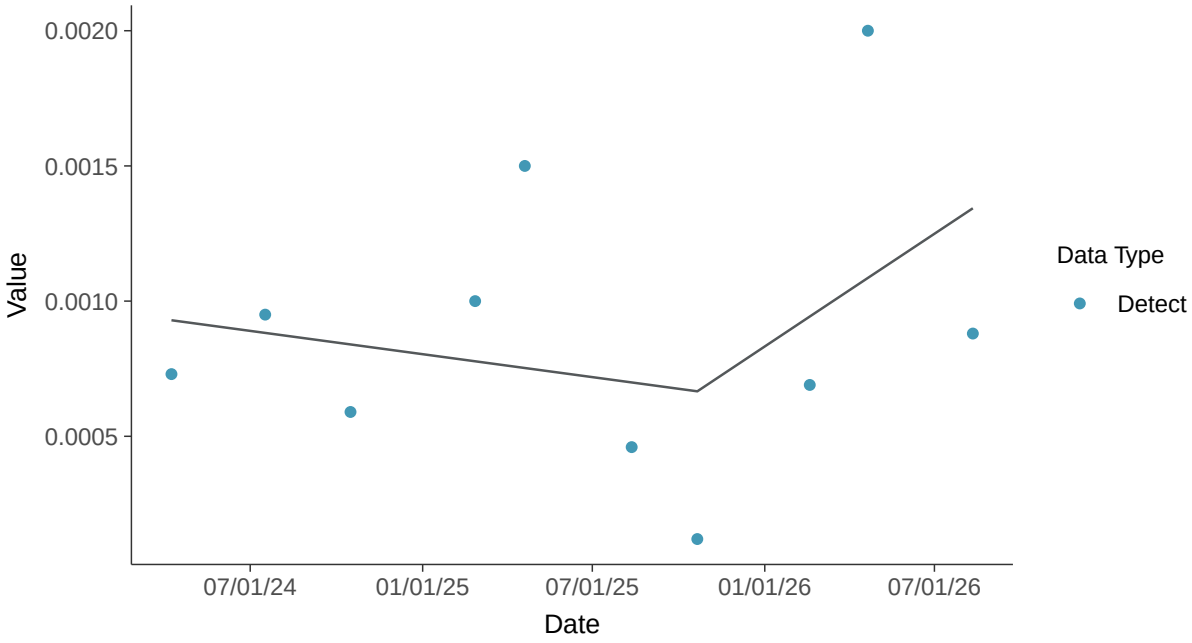
Trend Regression: Lognormal MLE

Selenium, MW-38 (mg/L)



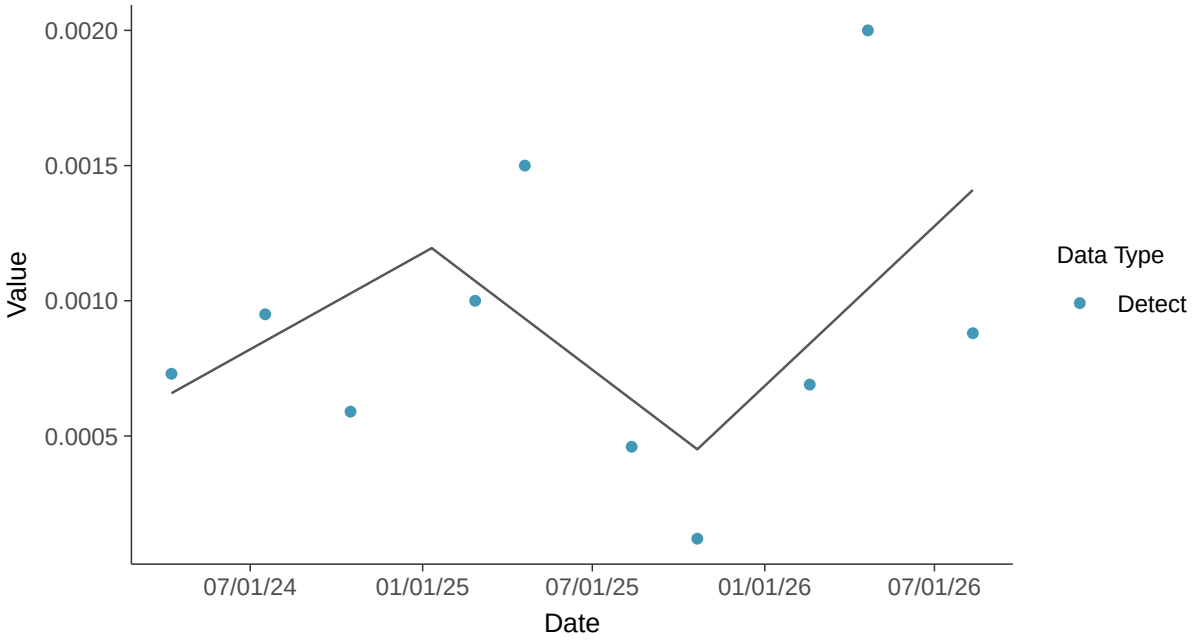
Trend Regression: Piecewise Linear-Linear

Selenium, MW-38 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Selenium, MW-38 (mg/L)

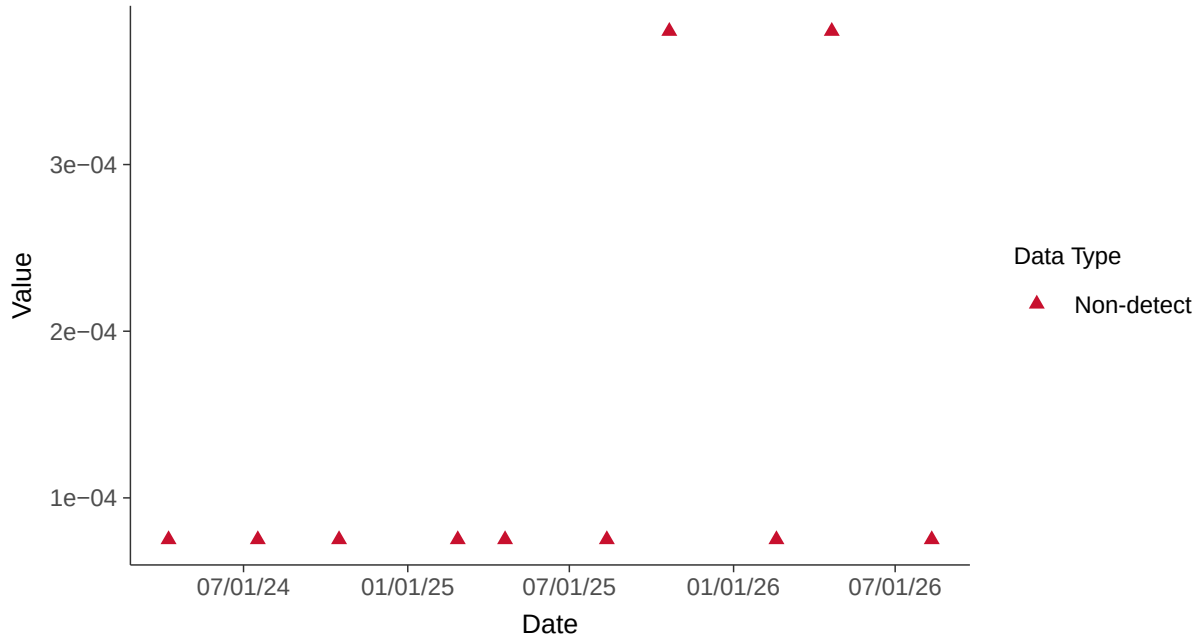


Appendix IV: Thallium, MW-38

ID: 48_2_4_125

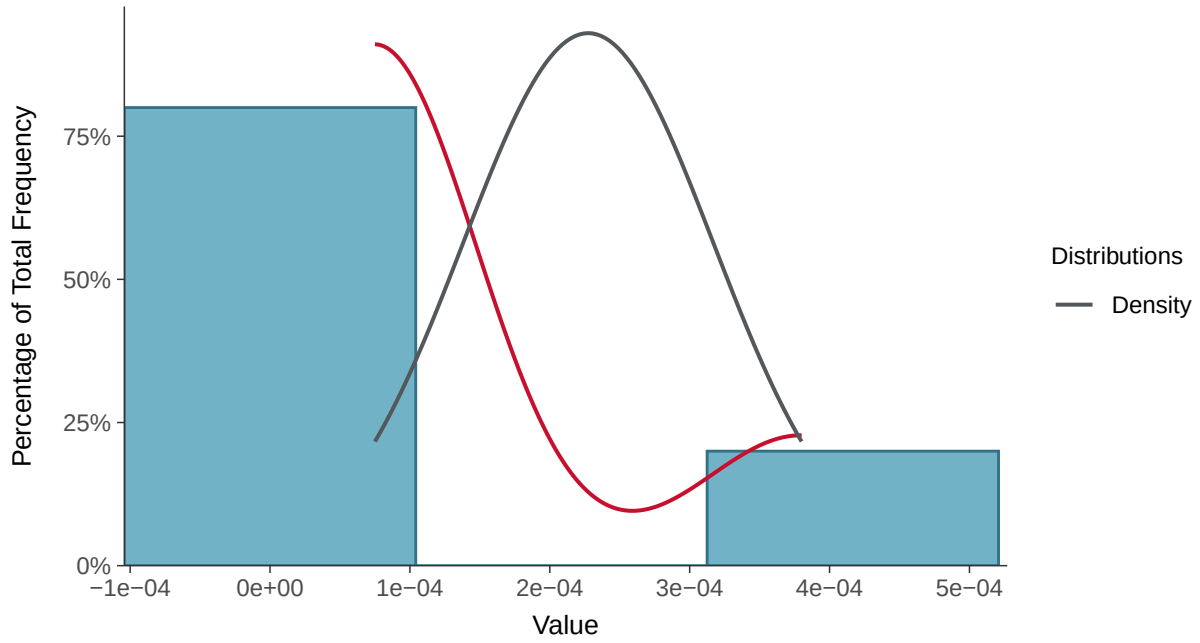
Scatter Plot

Thallium, MW-38 (mg/L)



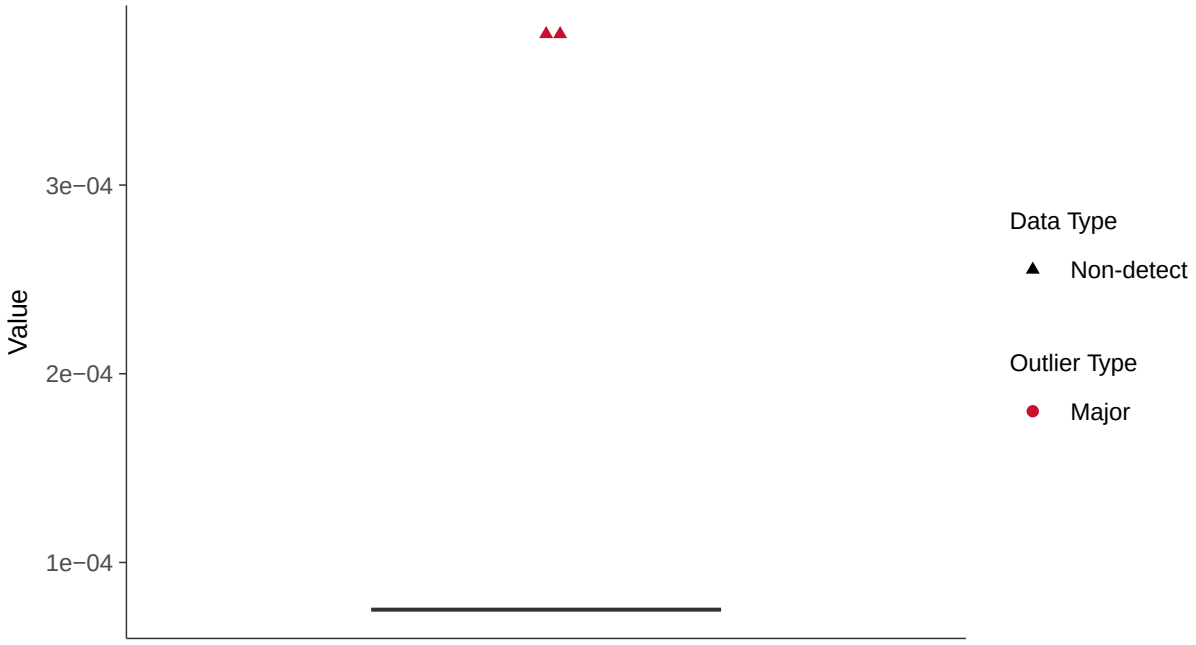
Histogram

Thallium, MW-38 (mg/L)



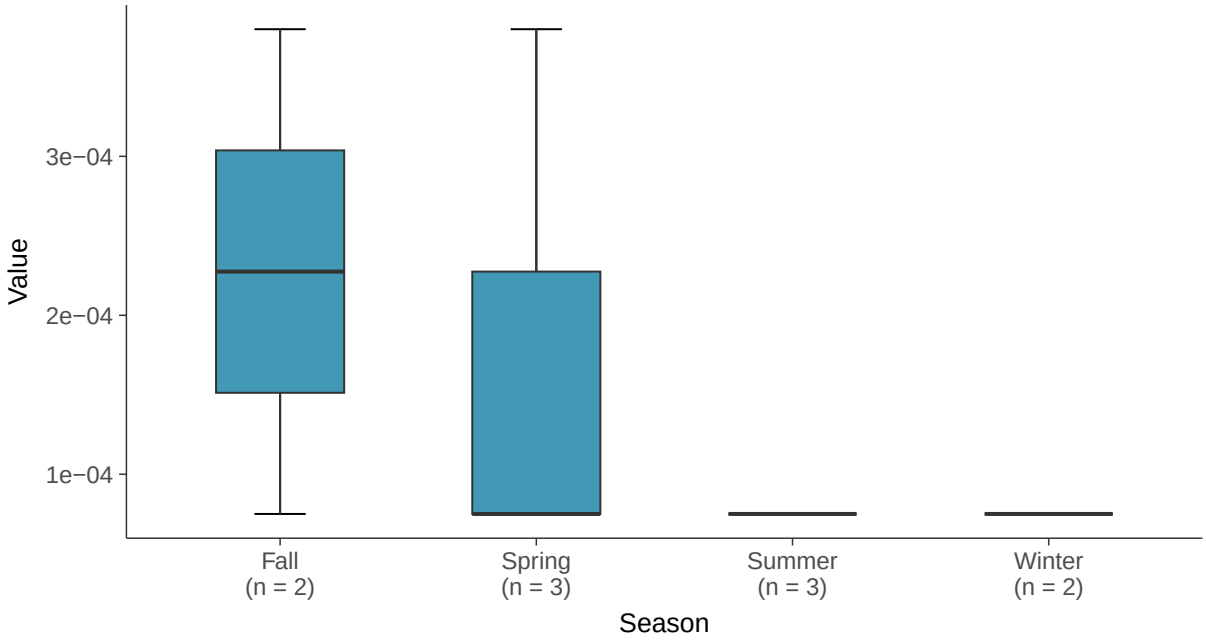
Boxplot

Thallium, MW-38 (mg/L)



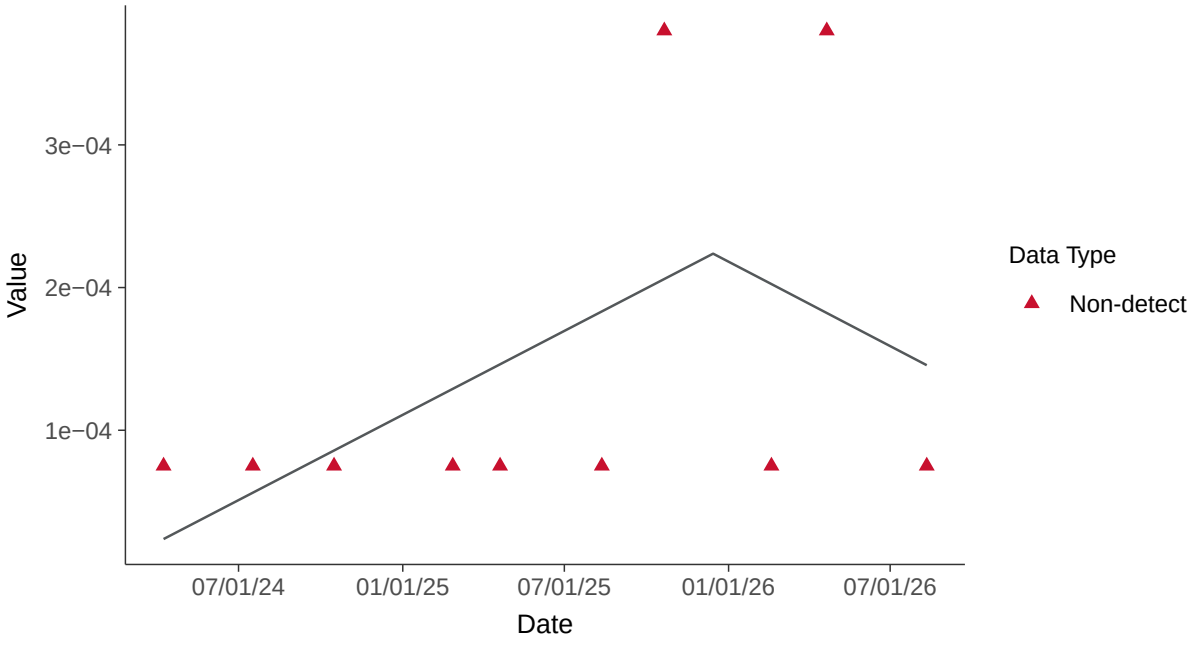
Boxplot by Season

Thallium, MW-38 (mg/L)



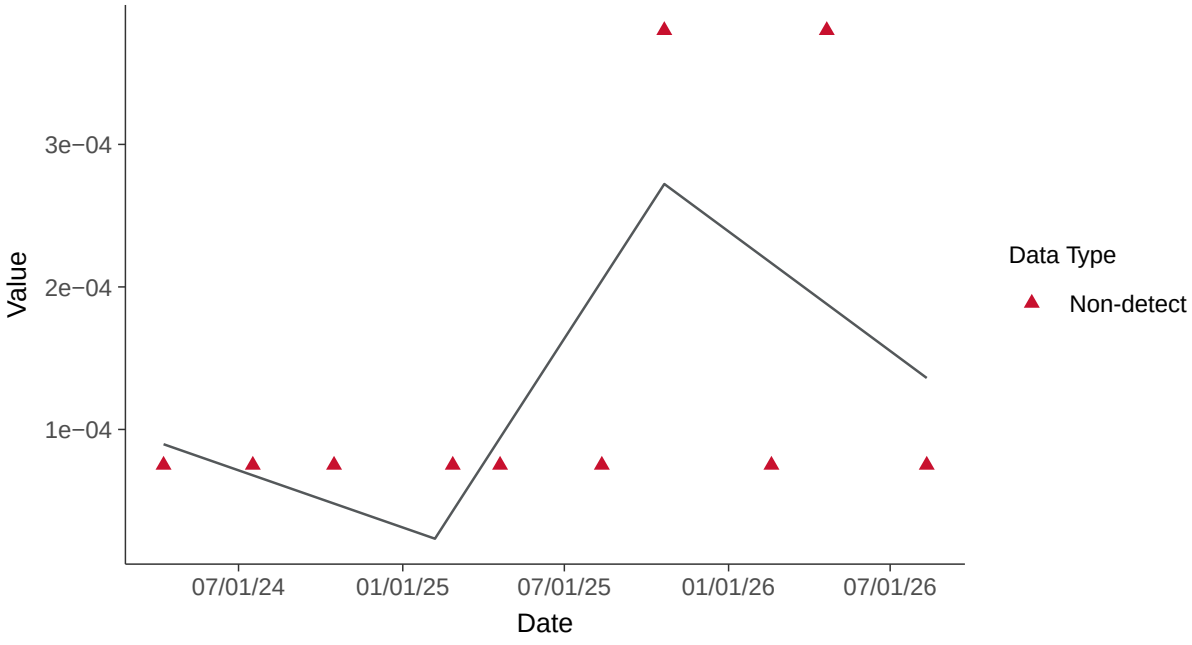
Trend Regression: Piecewise Linear-Linear

Thallium, MW-38 (mg/L)



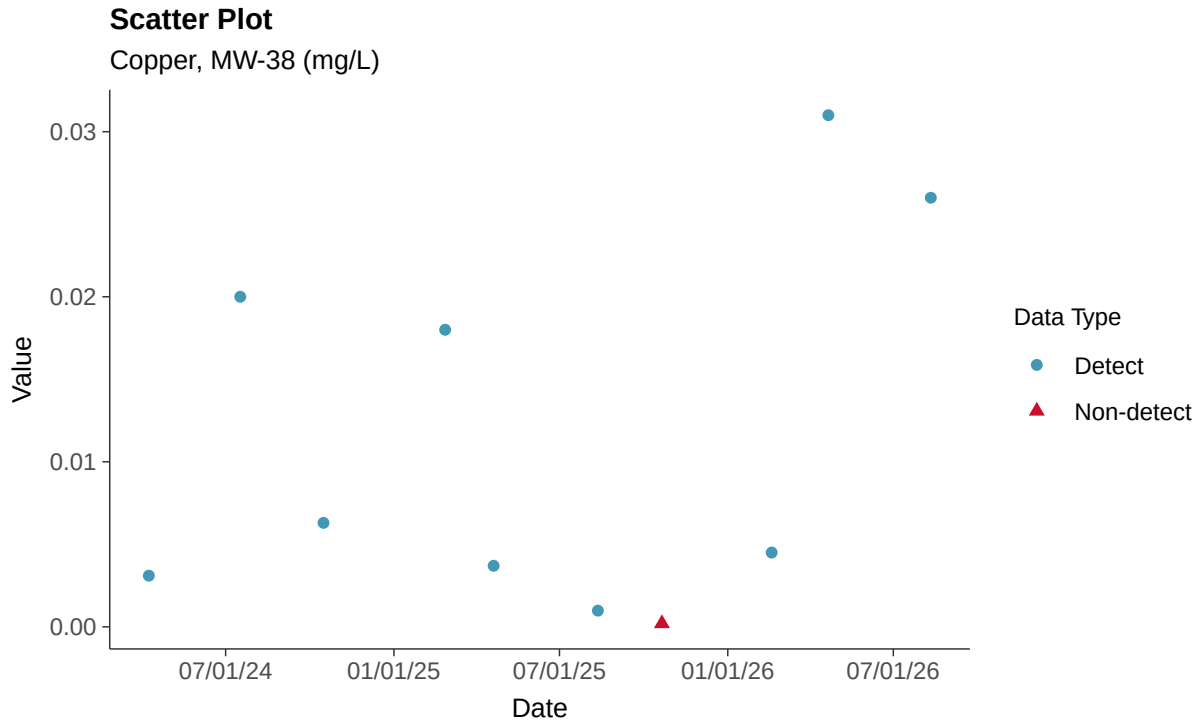
Trend Regression: Piecewise Linear-Linear-Linear

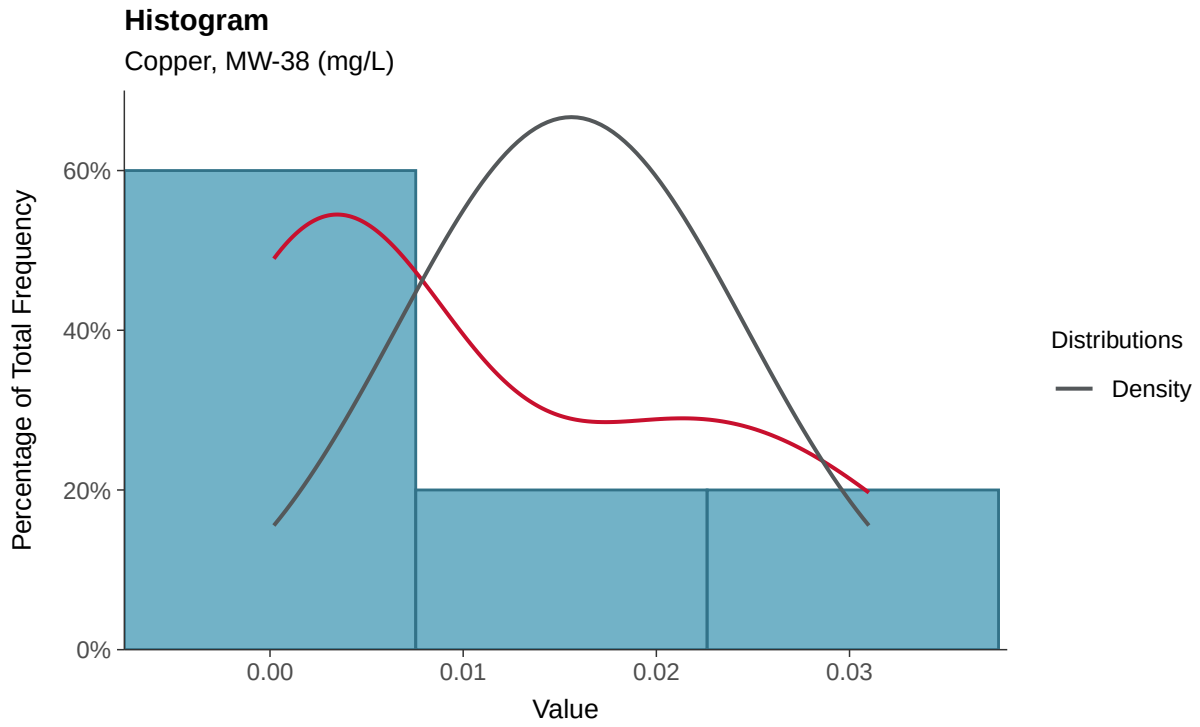
Thallium, MW-38 (mg/L)



Part 115: Copper, MW-38

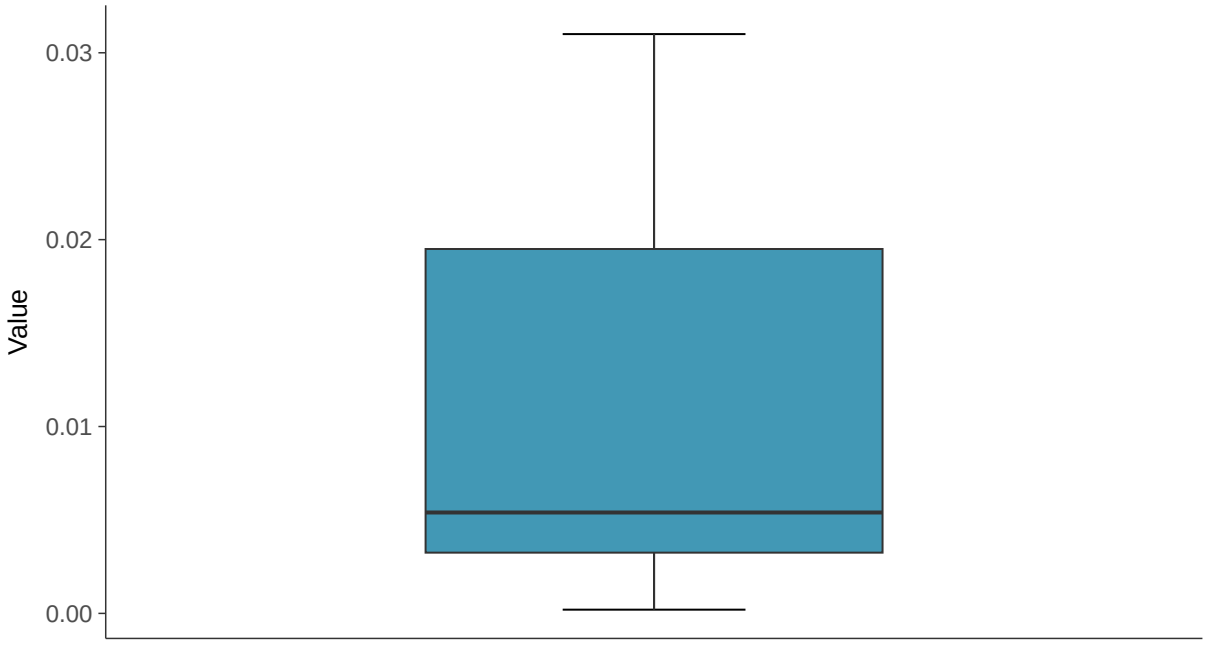
ID: 48_2_5_111





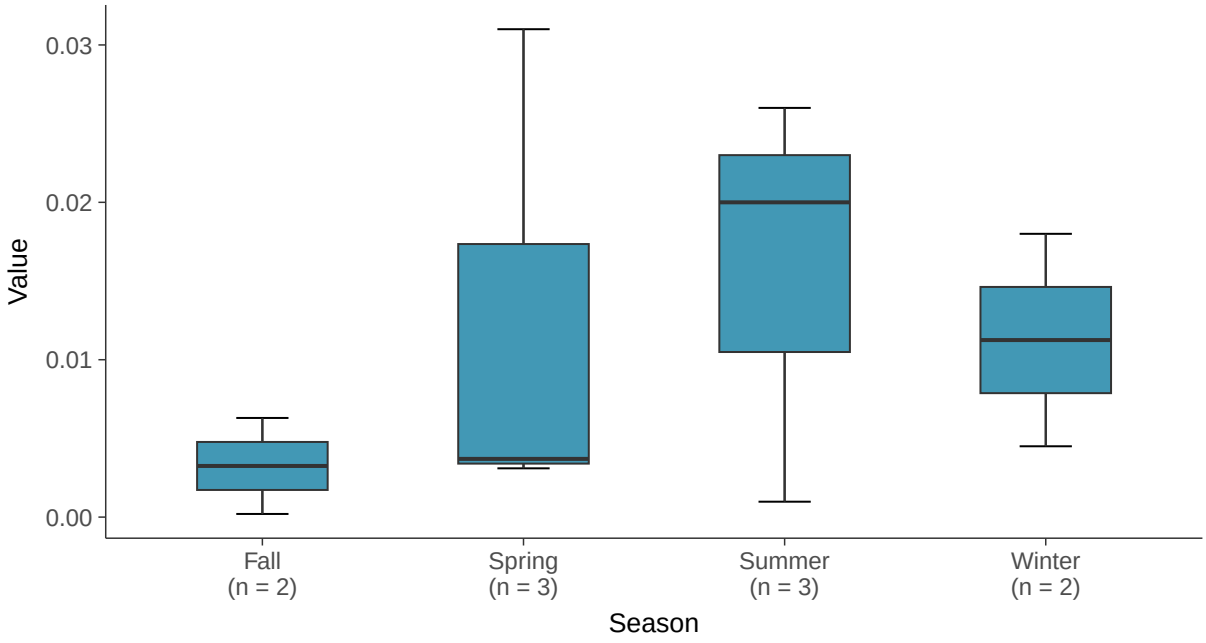
Boxplot

Copper, MW-38 (mg/L)



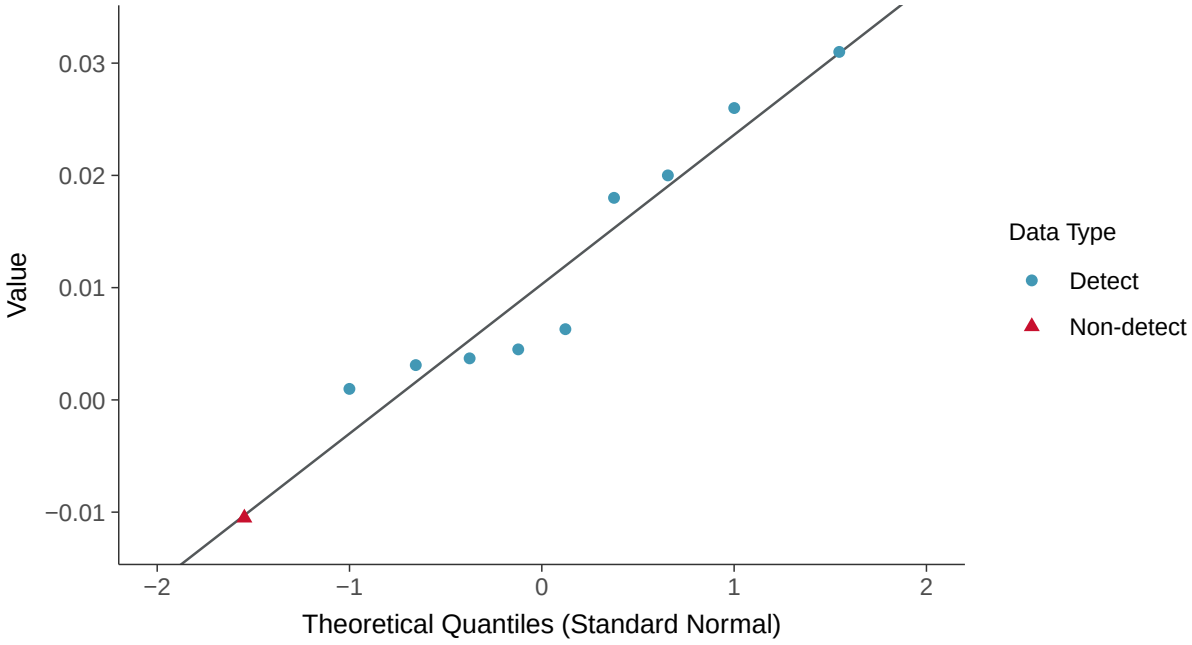
Boxplot by Season

Copper, MW-38 (mg/L)



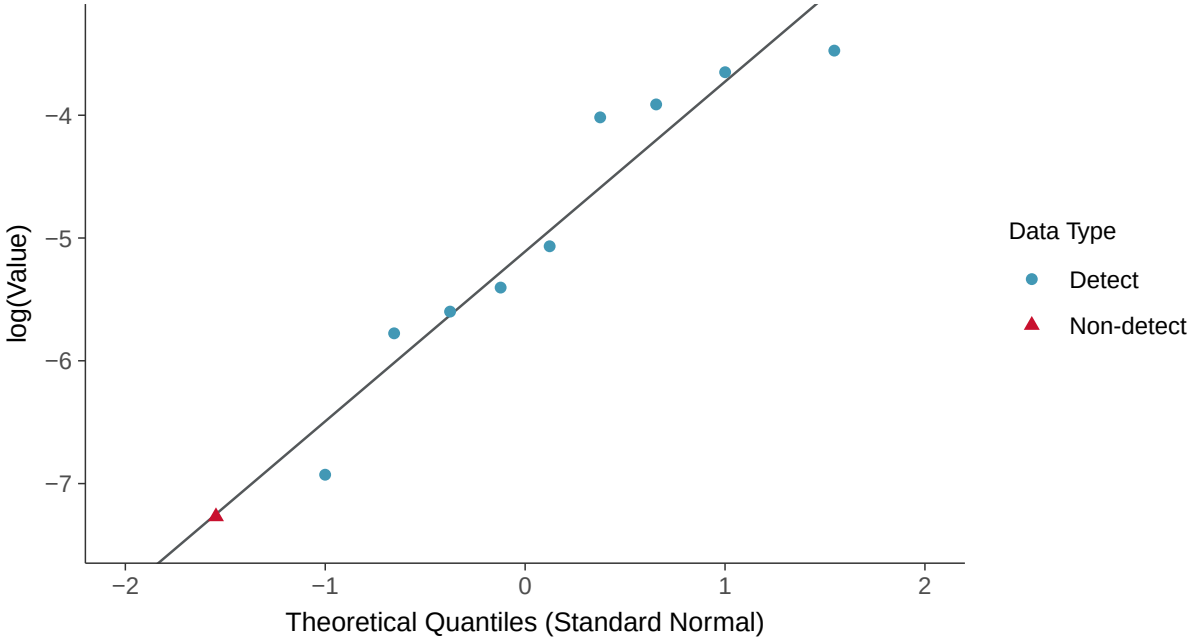
Normal Q-Q plot using ROS Imputed Estimates

Copper, MW-38 (mg/L)



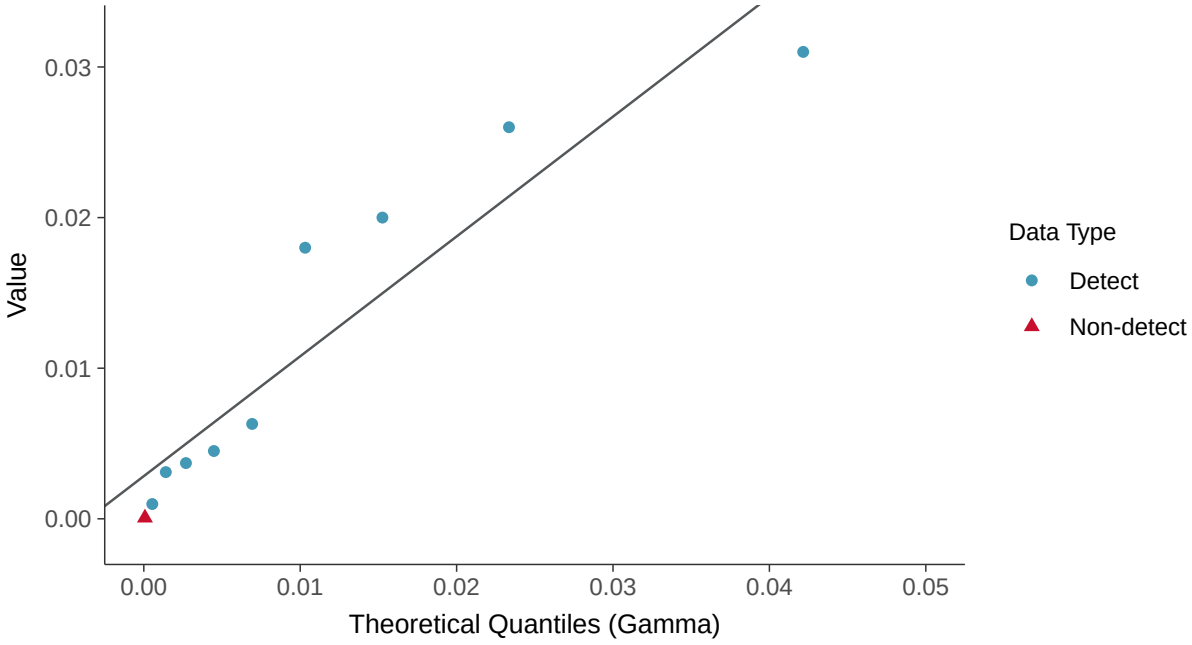
Lognormal Q-Q plot using ROS Imputed Estimates

Copper, MW-38 (mg/L)



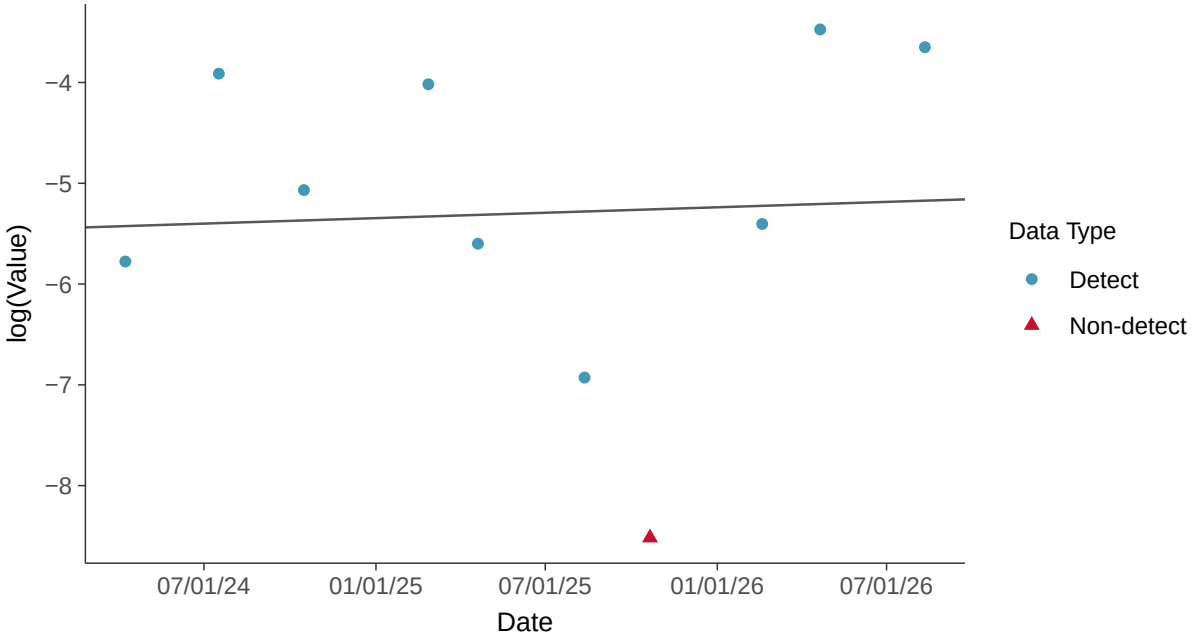
Gamma Q-Q plot using ROS Imputed Estimates

Copper, MW-38 (mg/L)



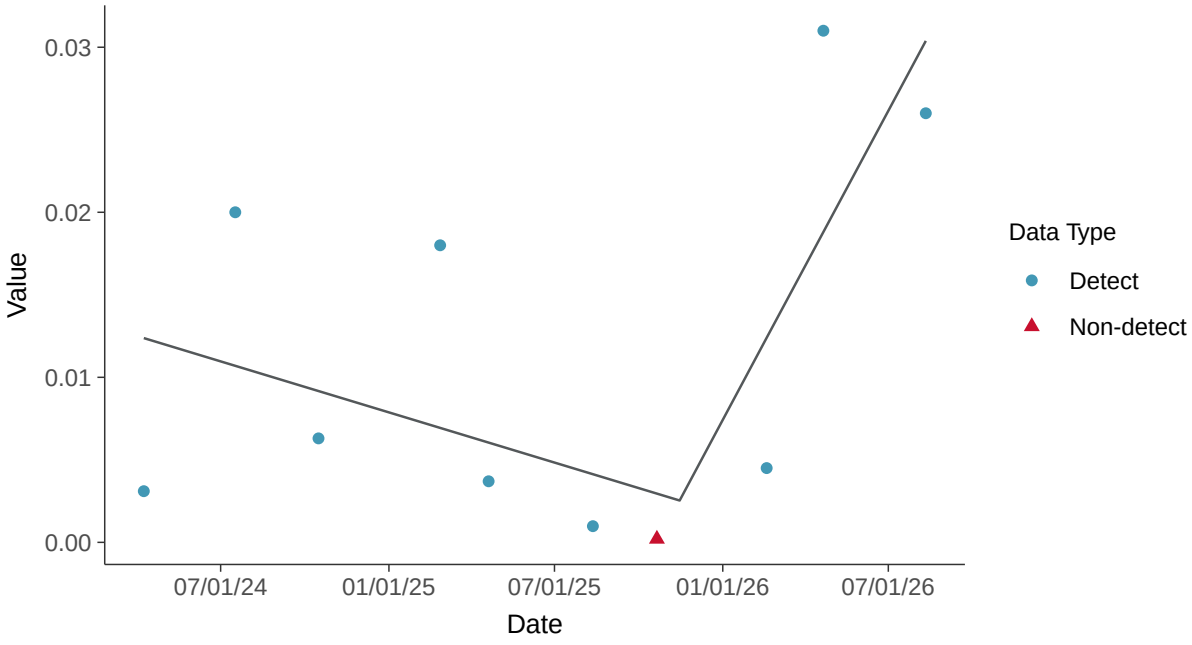
Trend Regression: Lognormal MLE

Copper, MW-38 (mg/L)



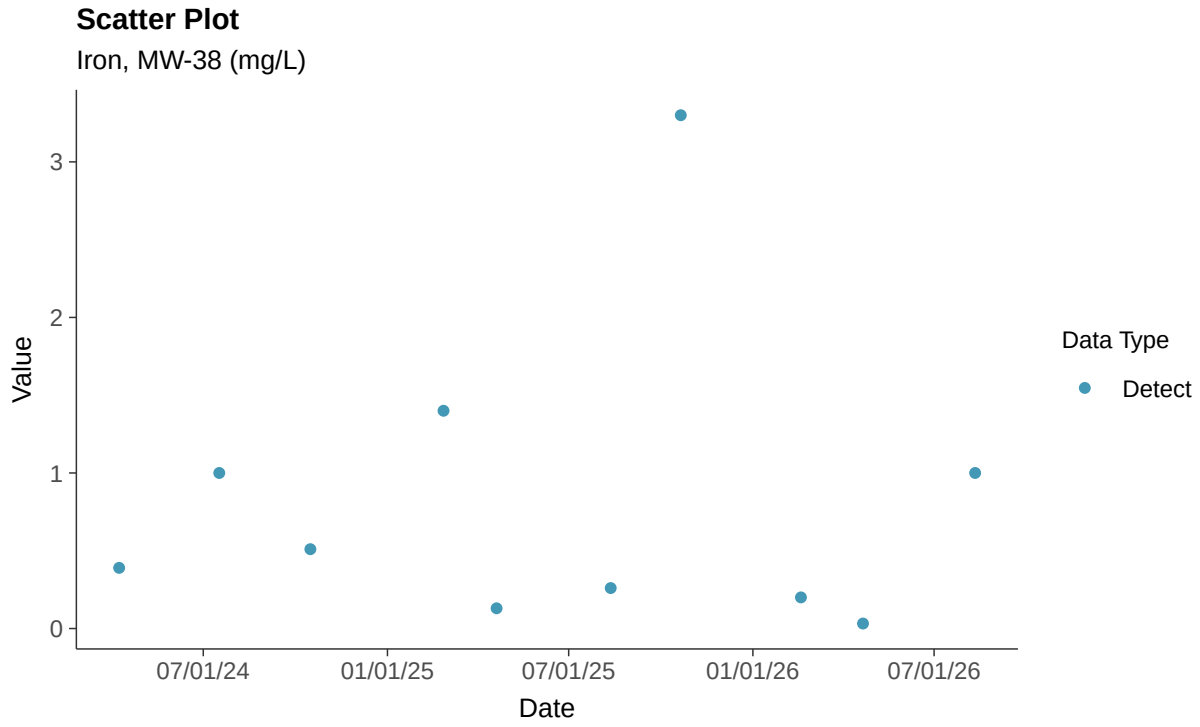
Trend Regression: Piecewise Linear-Linear

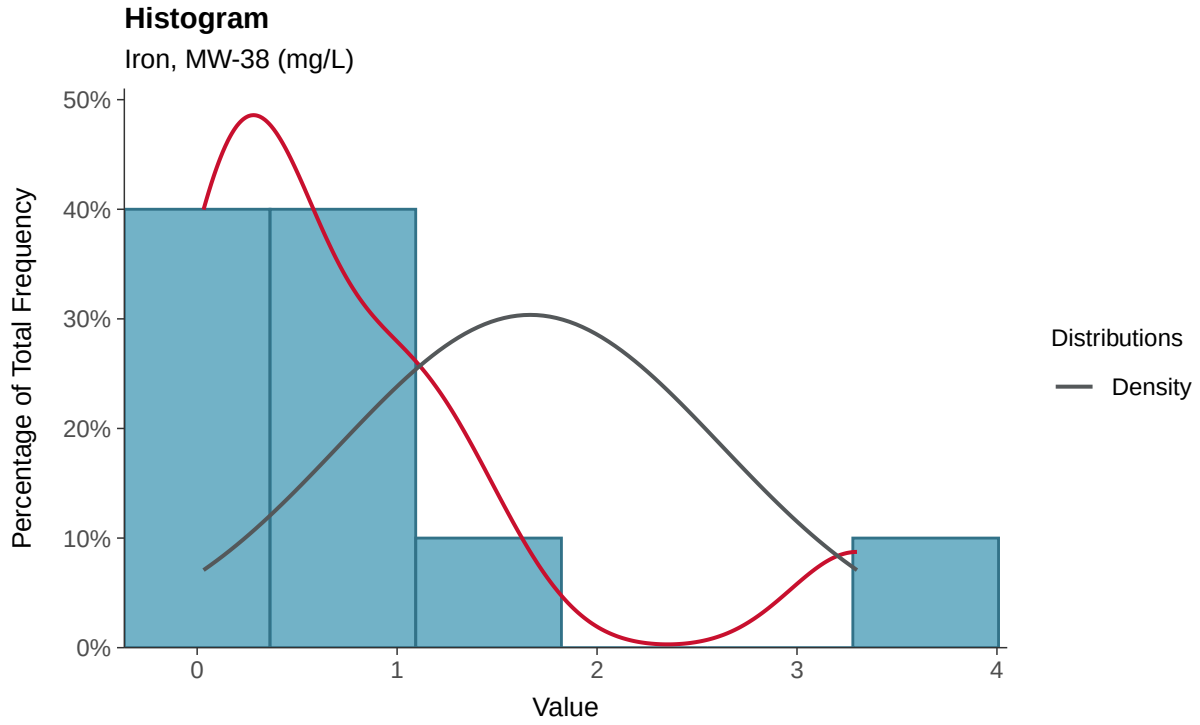
Copper, MW-38 (mg/L)



Part 115: Iron, MW-38

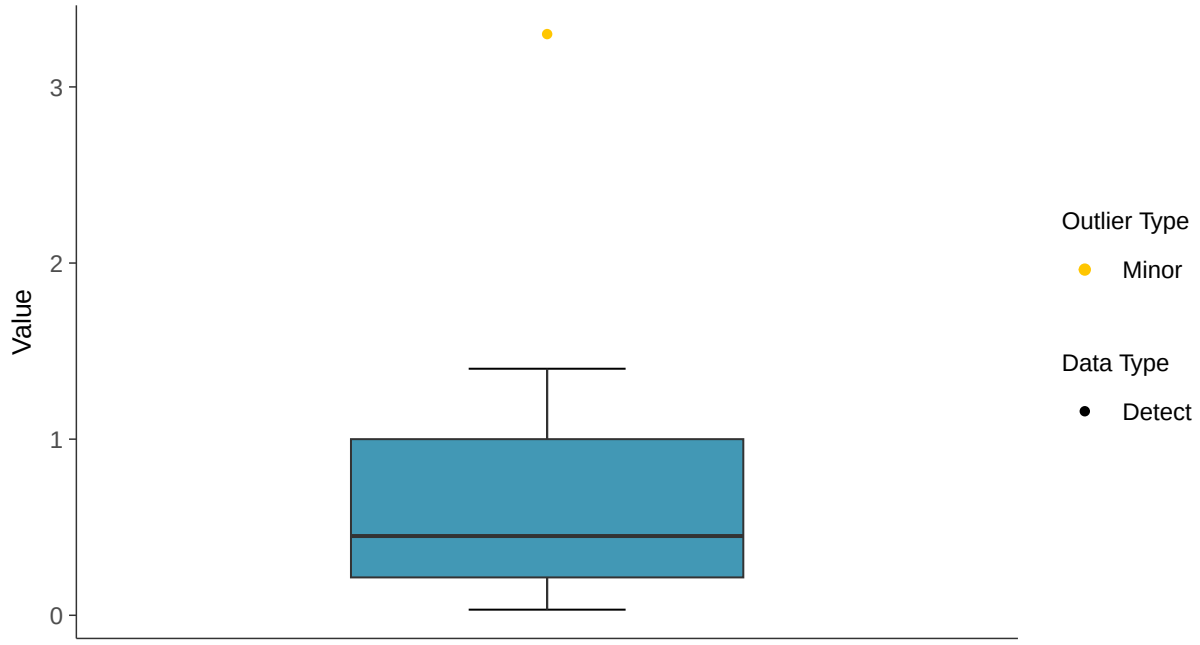
ID: 48_2_5_114





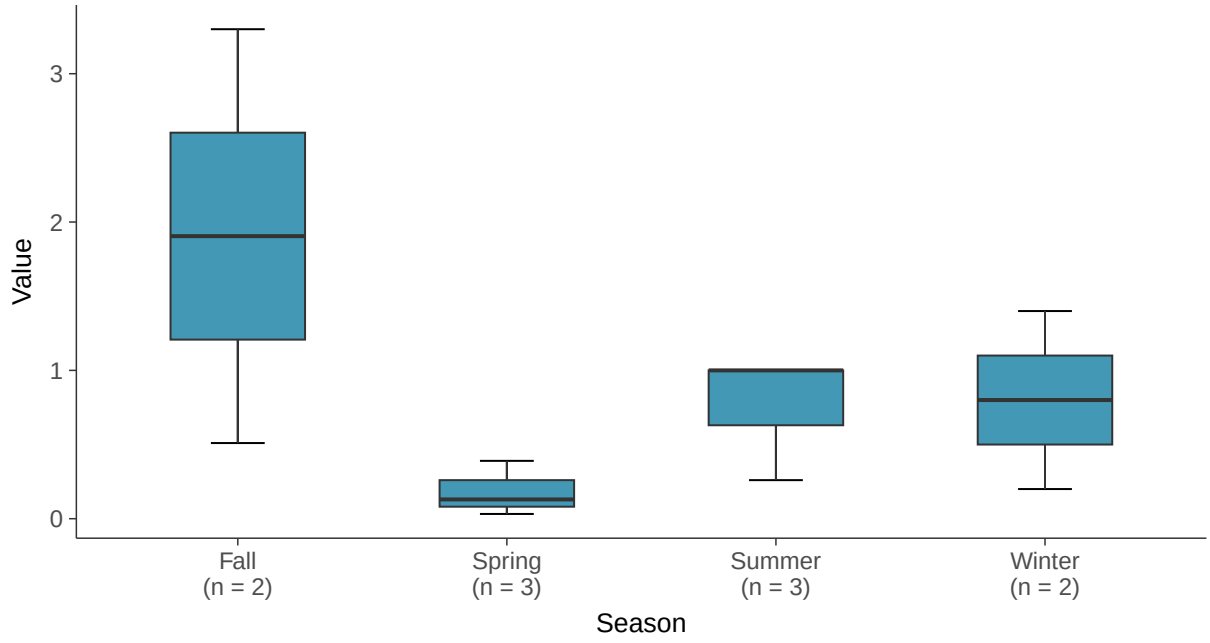
Boxplot

Iron, MW-38 (mg/L)



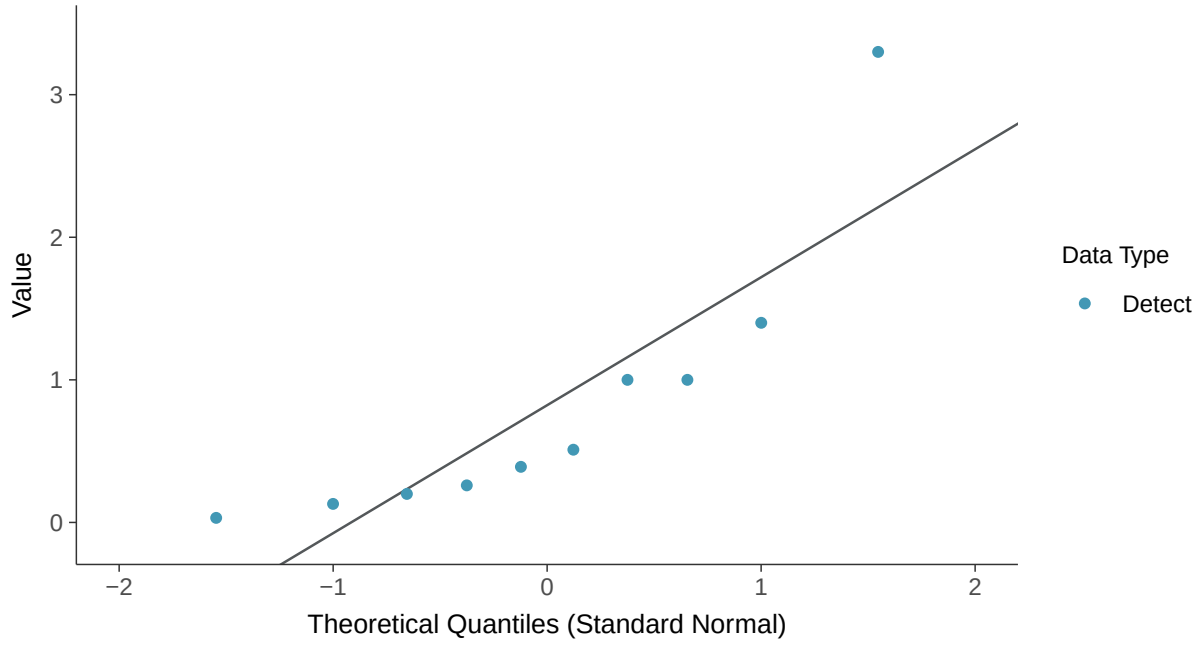
Boxplot by Season

Iron, MW-38 (mg/L)



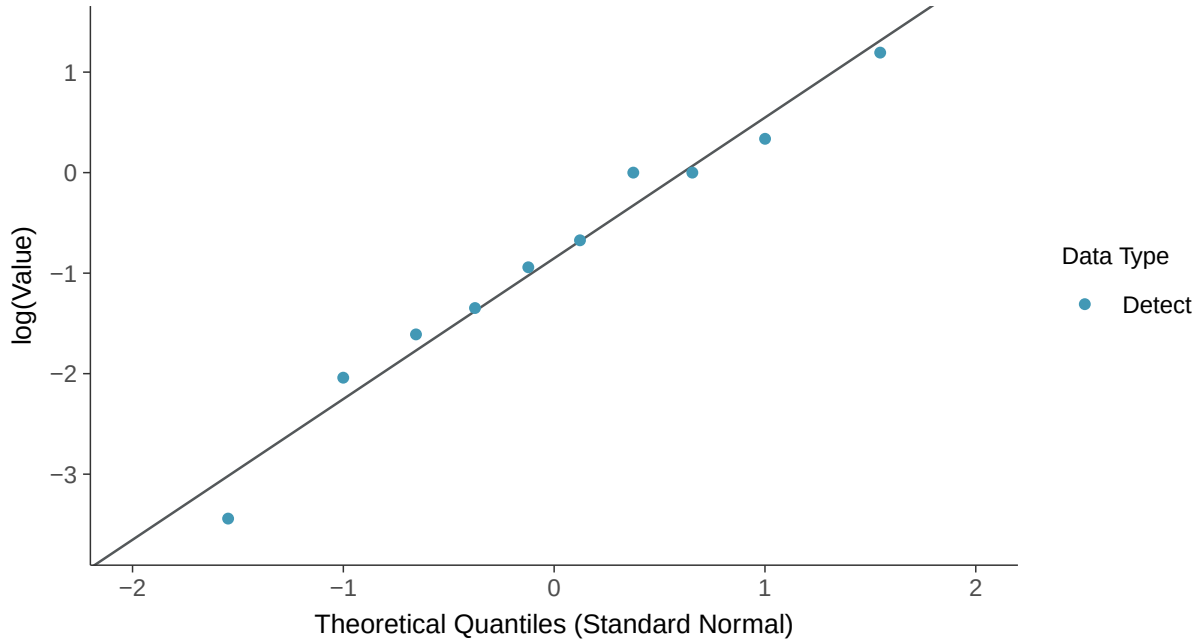
Normal Q-Q plot

Iron, MW-38 (mg/L)



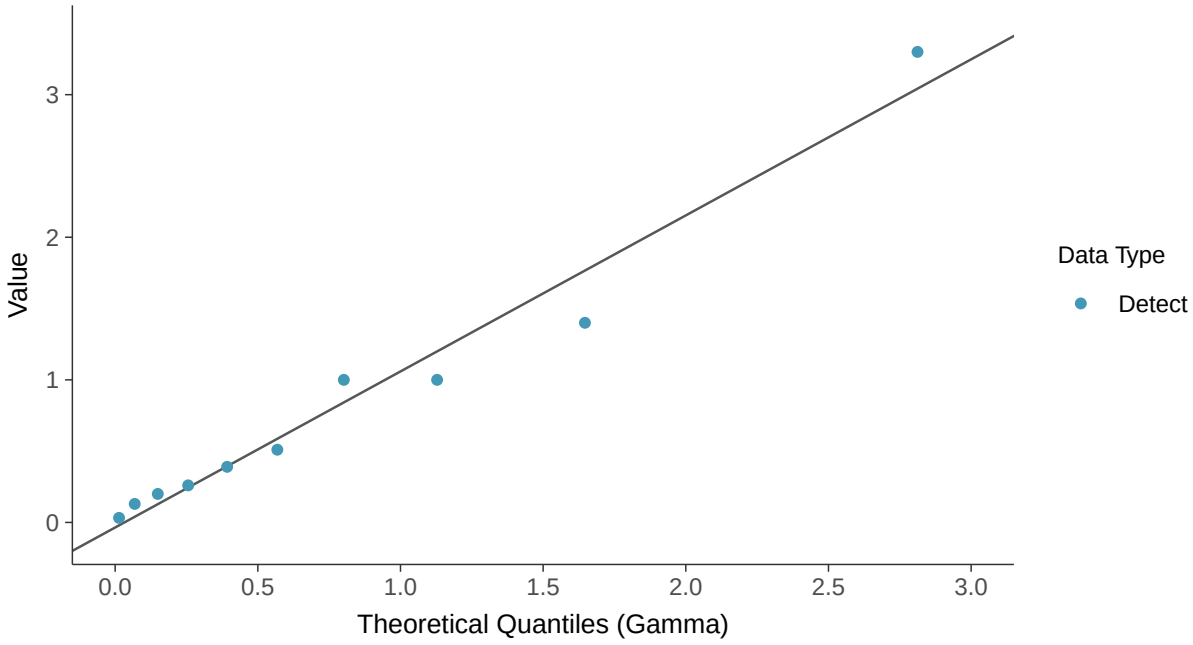
Lognormal Q-Q plot

Iron, MW-38 (mg/L)



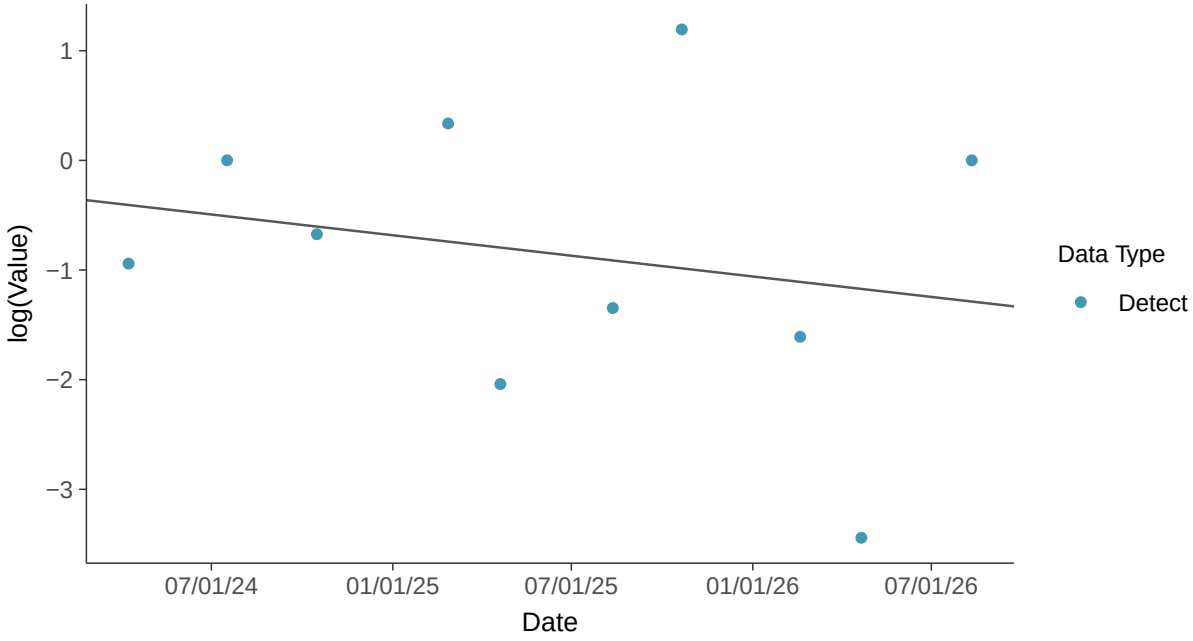
Gamma Q-Q plot

Iron, MW-38 (mg/L)



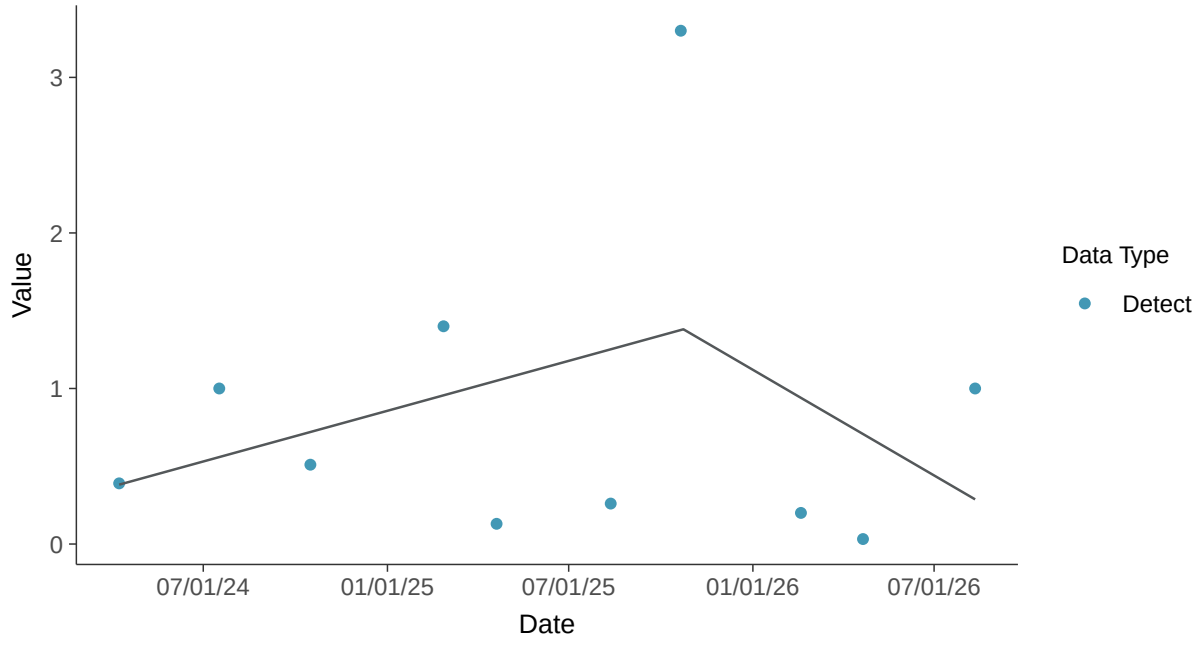
Trend Regression: Lognormal MLE

Iron, MW-38 (mg/L)



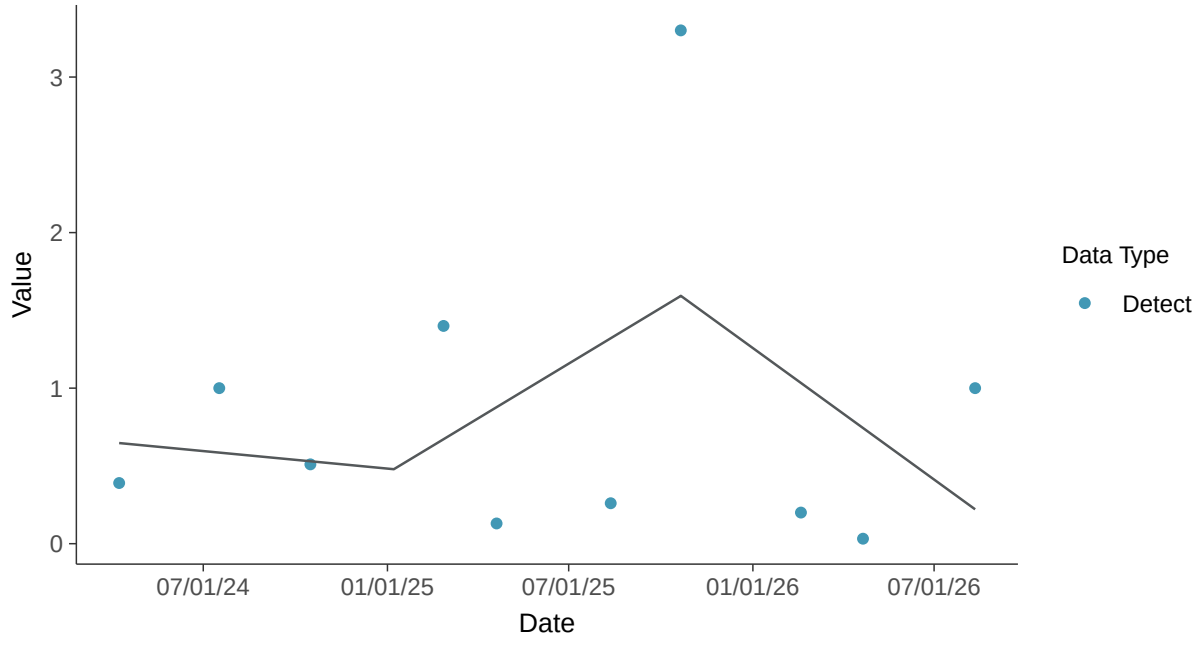
Trend Regression: Piecewise Linear-Linear

Iron, MW-38 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Iron, MW-38 (mg/L)

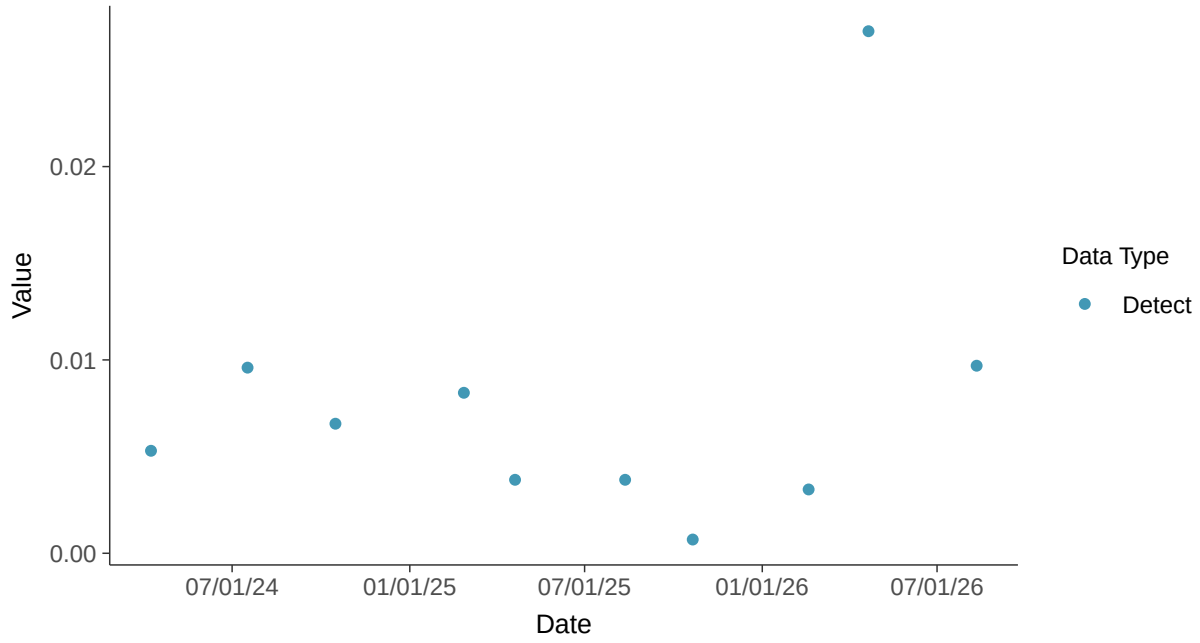


Part 115: Nickel, MW-38

ID: 48_2_5_119

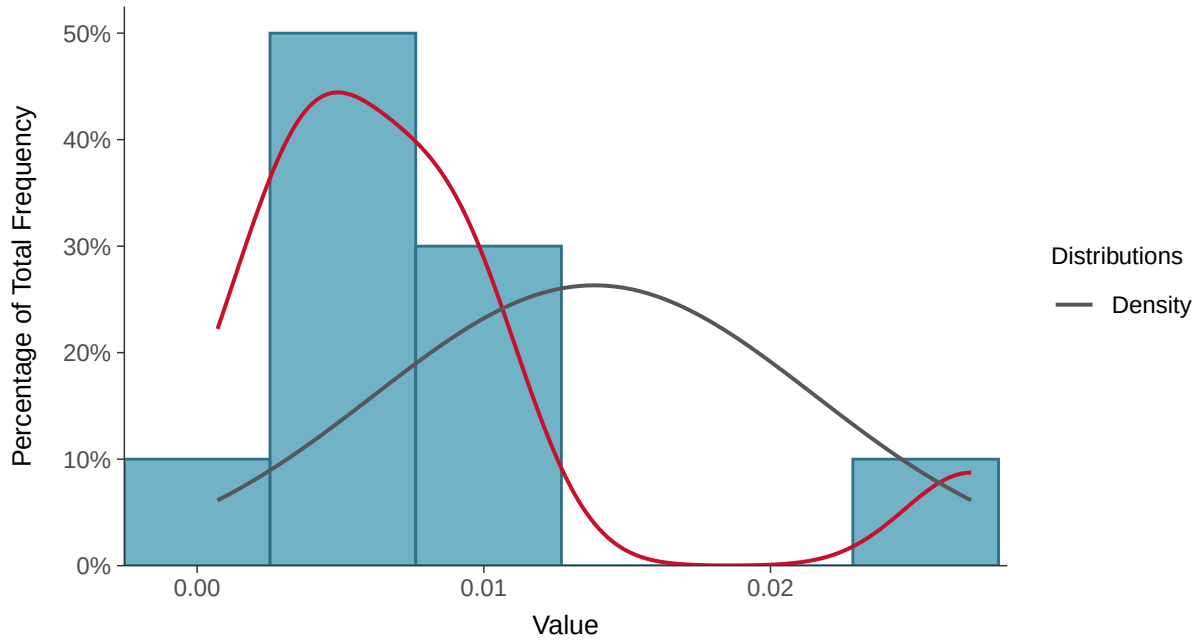
Scatter Plot

Nickel, MW-38 (mg/L)



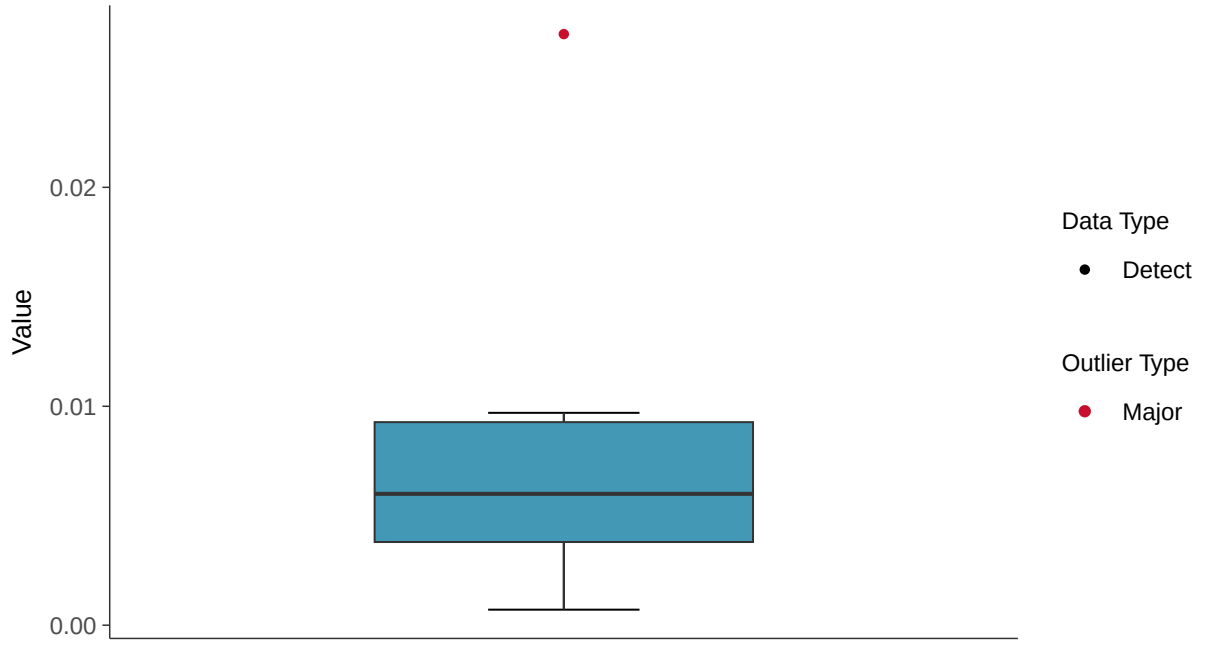
Histogram

Nickel, MW-38 (mg/L)



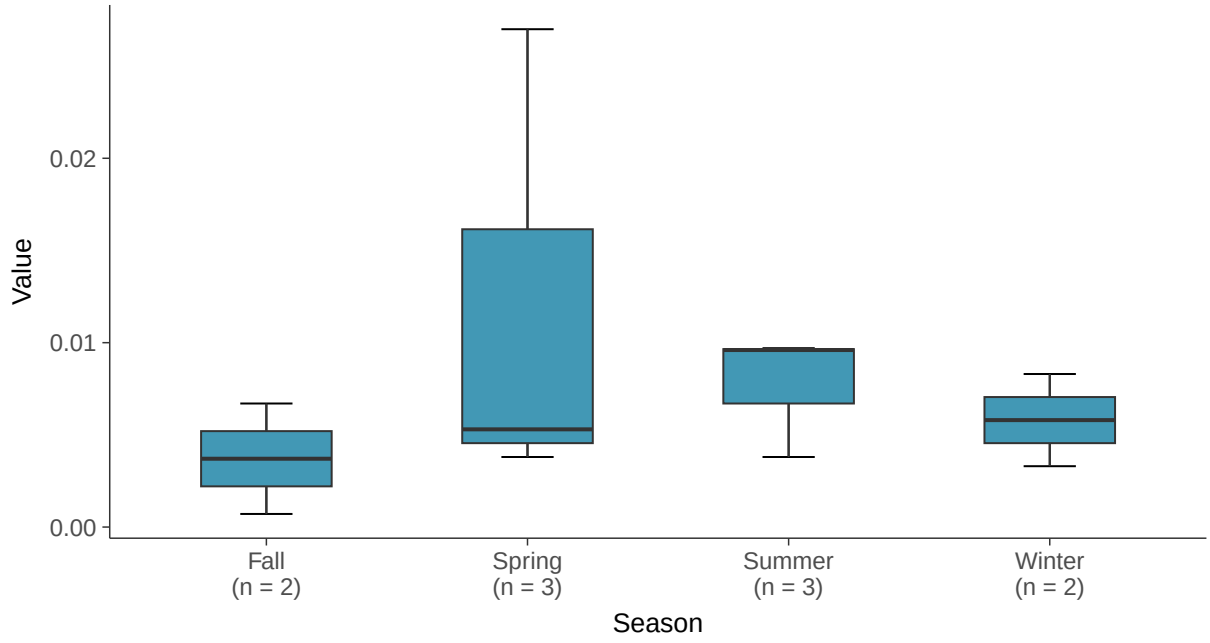
Boxplot

Nickel, MW-38 (mg/L)



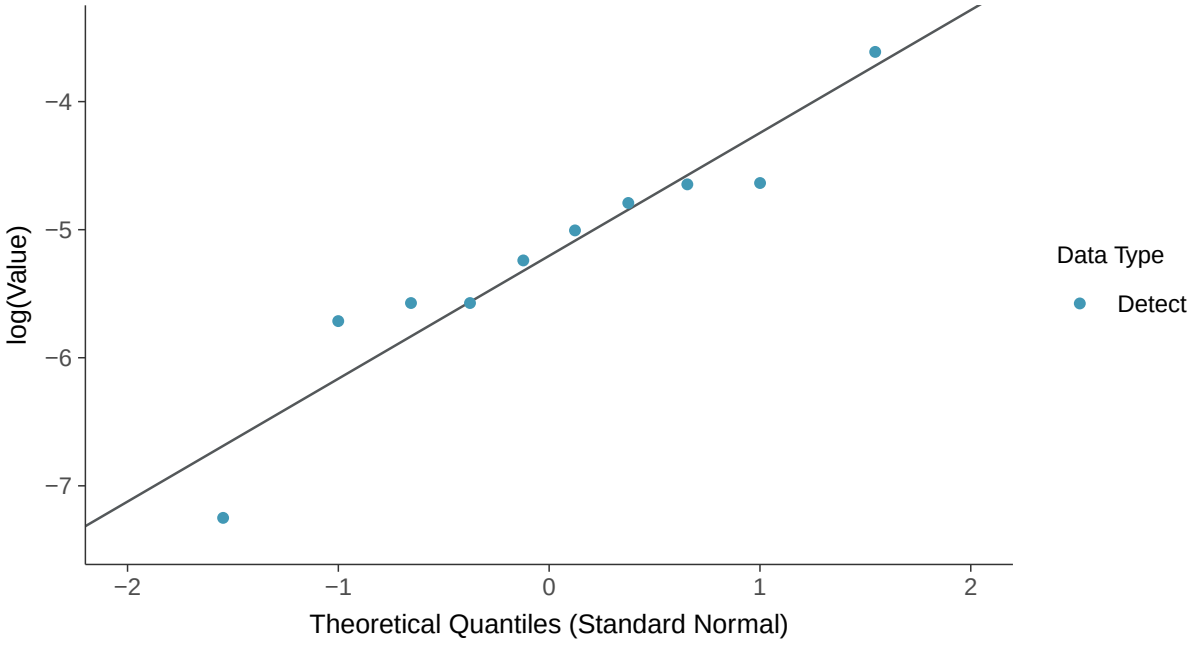
Boxplot by Season

Nickel, MW-38 (mg/L)



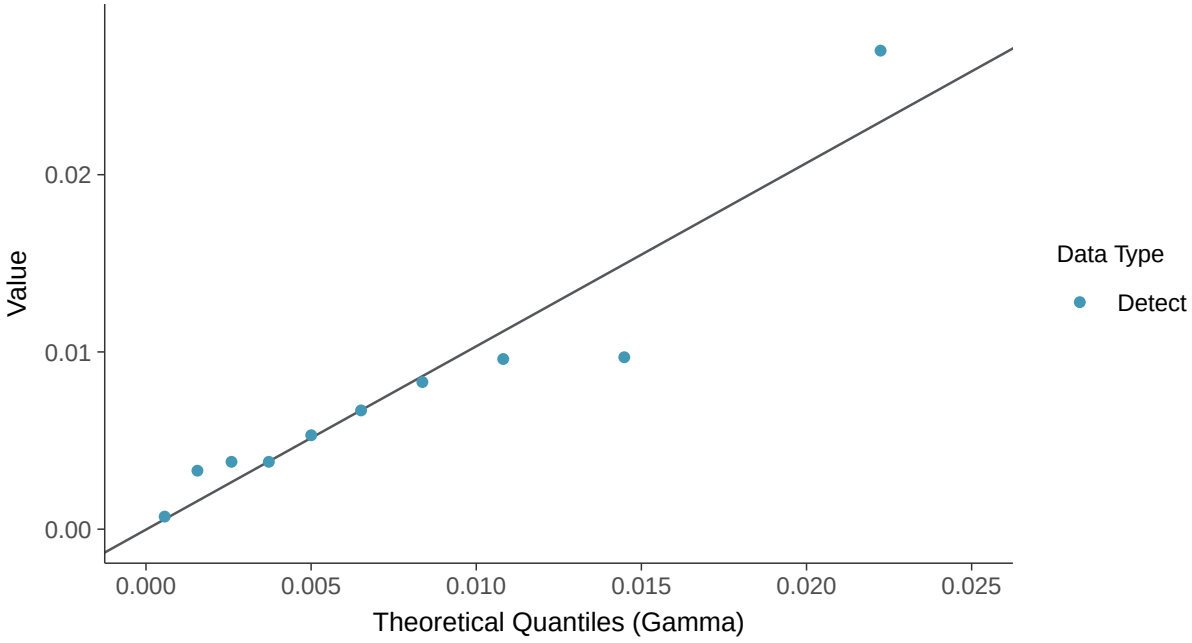
Lognormal Q-Q plot

Nickel, MW-38 (mg/L)



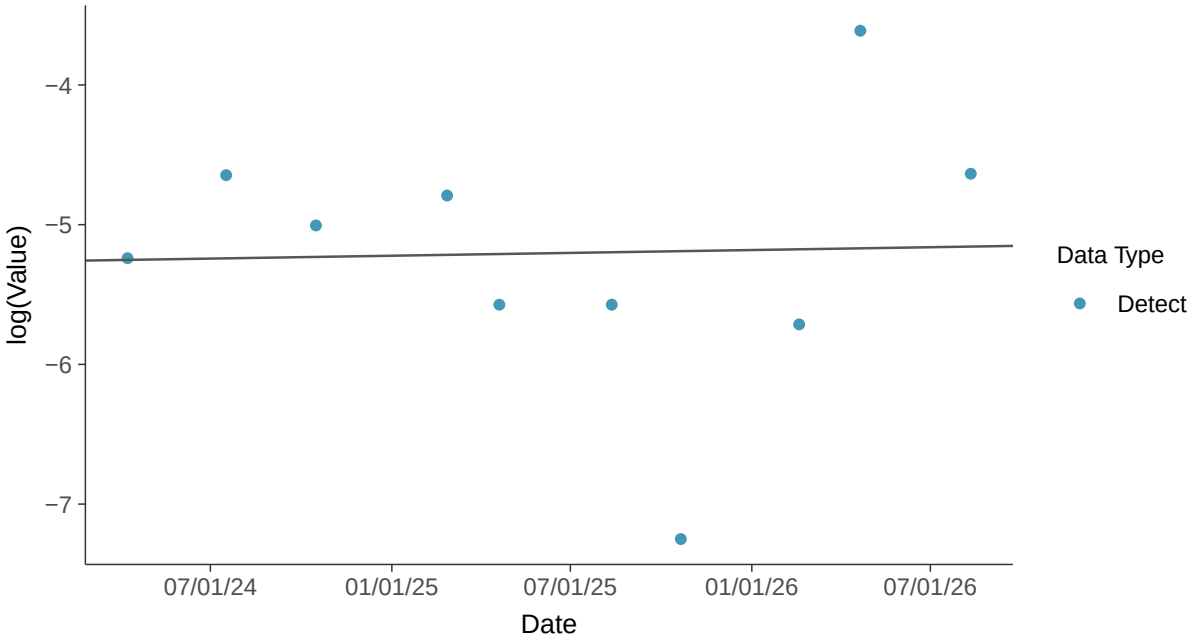
Gamma Q-Q plot

Nickel, MW-38 (mg/L)



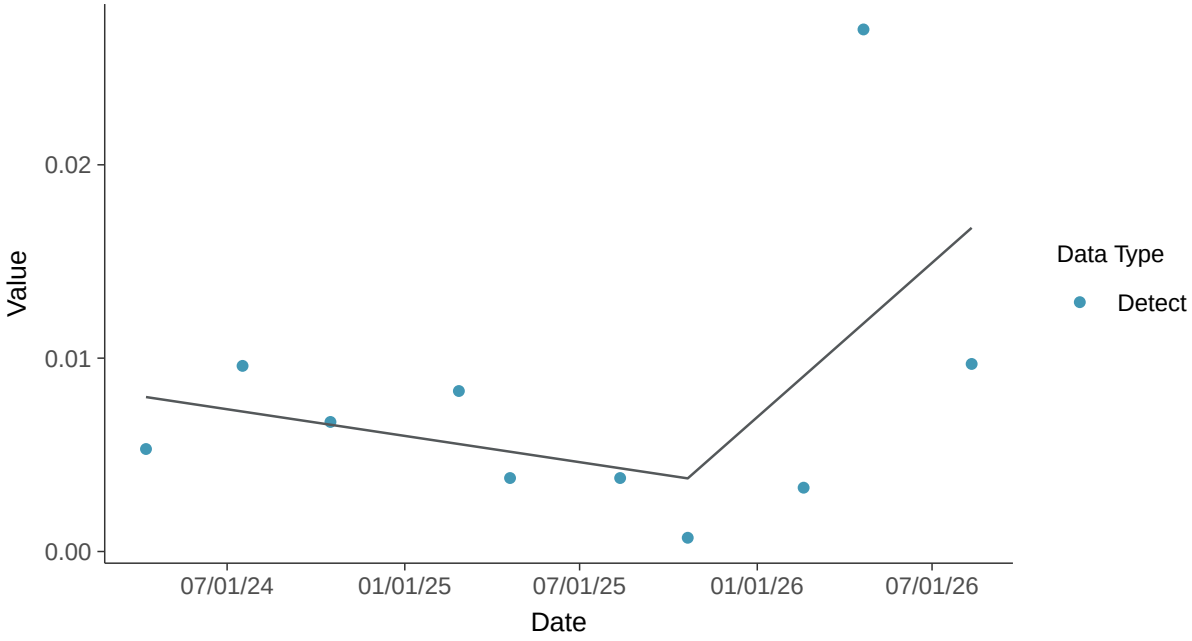
Trend Regression: Lognormal MLE

Nickel, MW-38 (mg/L)



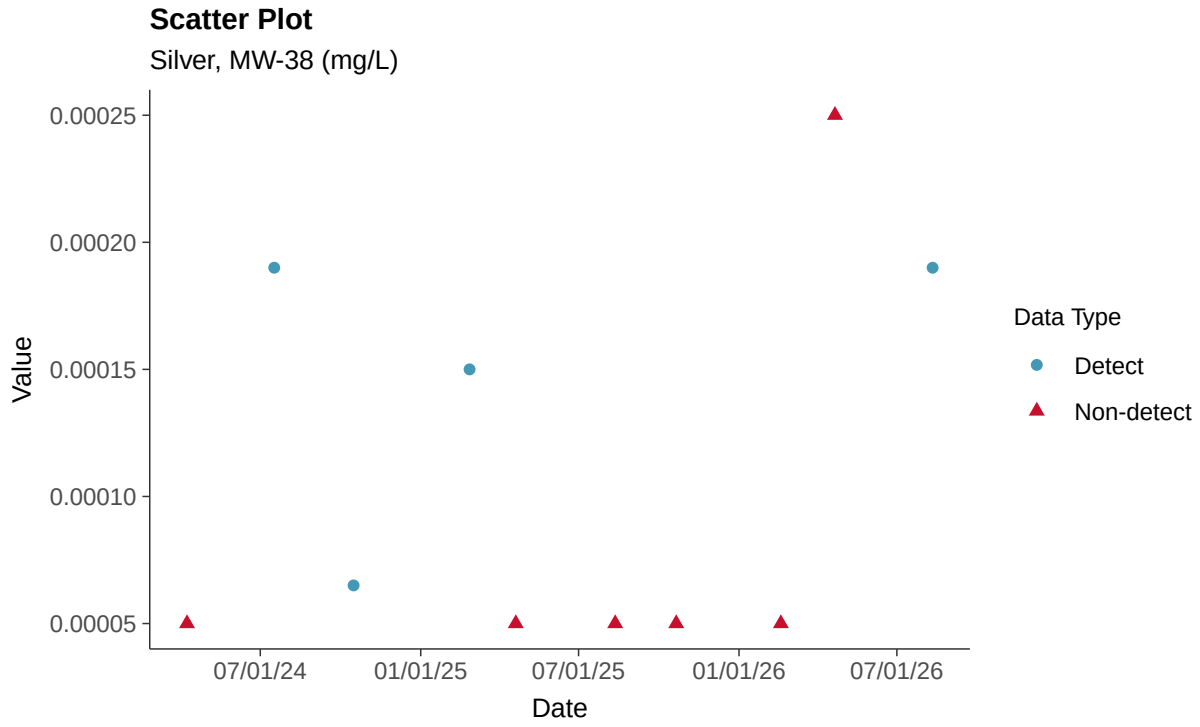
Trend Regression: Piecewise Linear-Linear

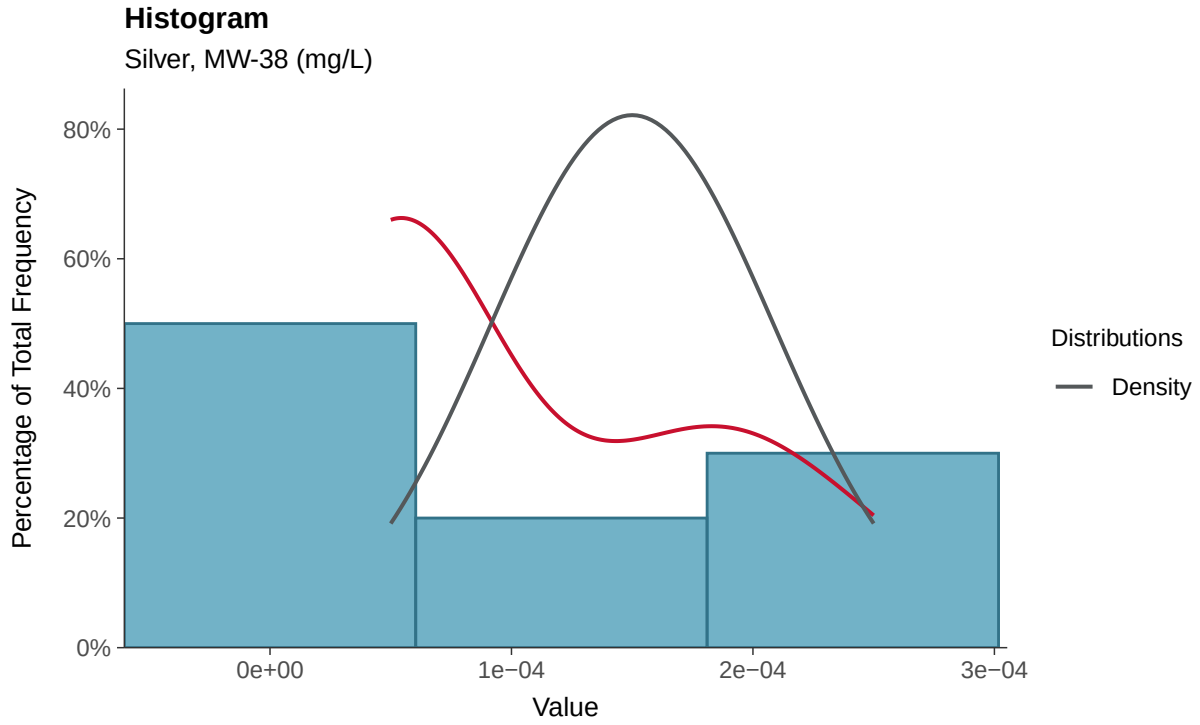
Nickel, MW-38 (mg/L)



Part 115: Silver, MW-38

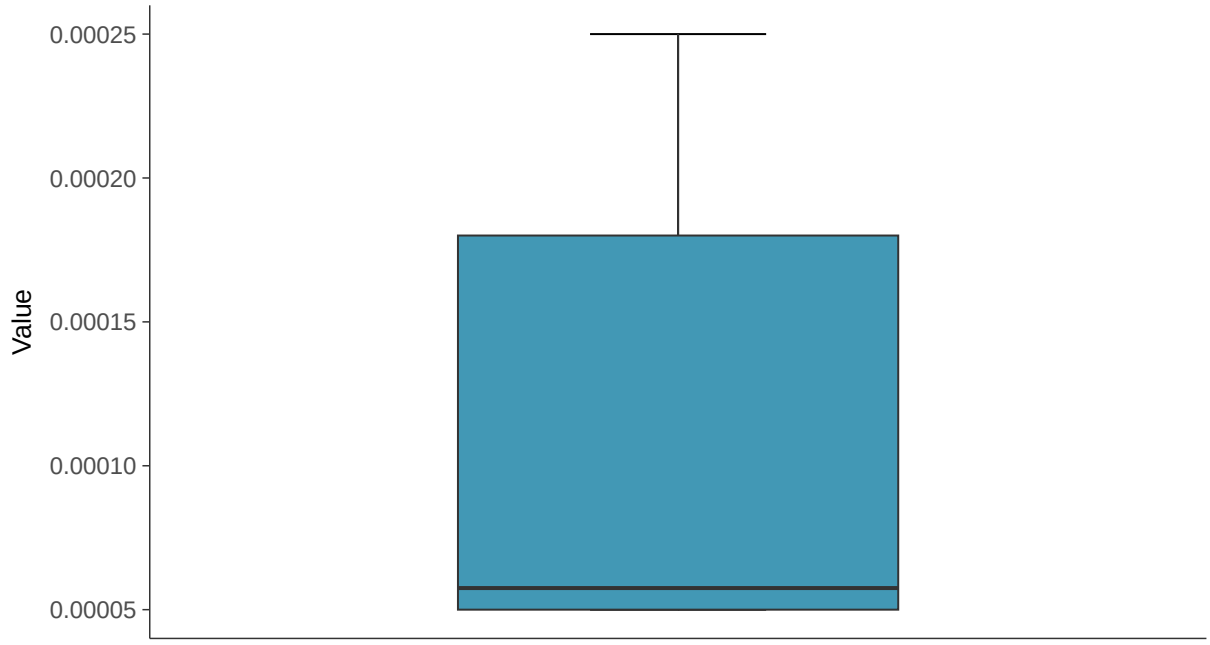
ID: 48_2_5_123





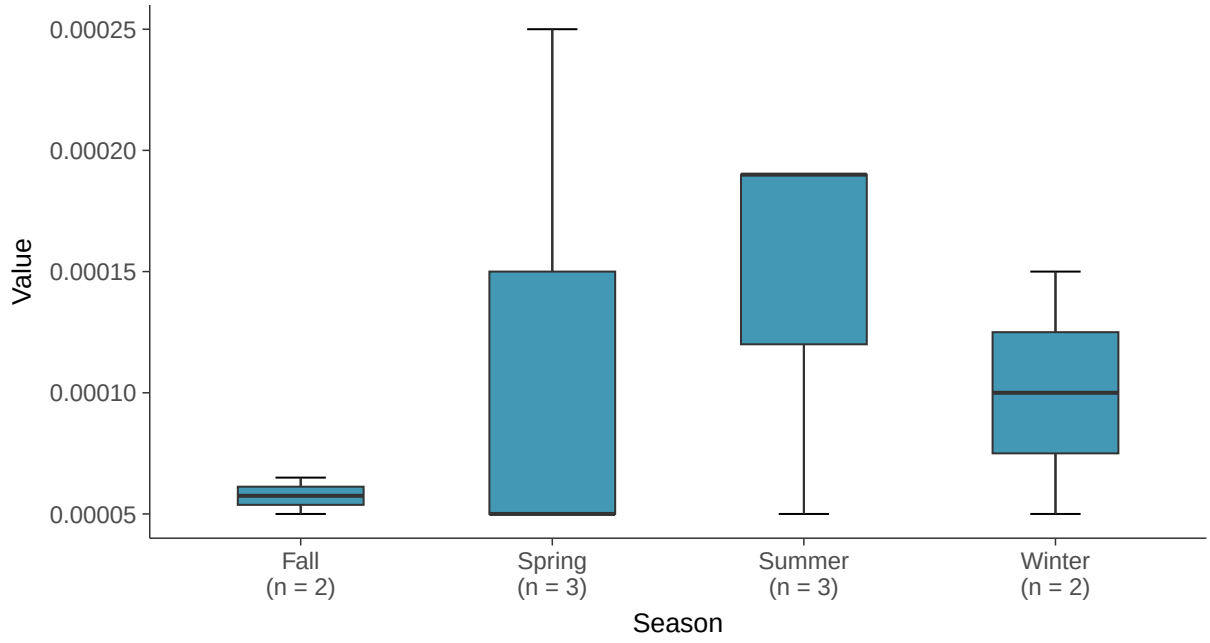
Boxplot

Silver, MW-38 (mg/L)



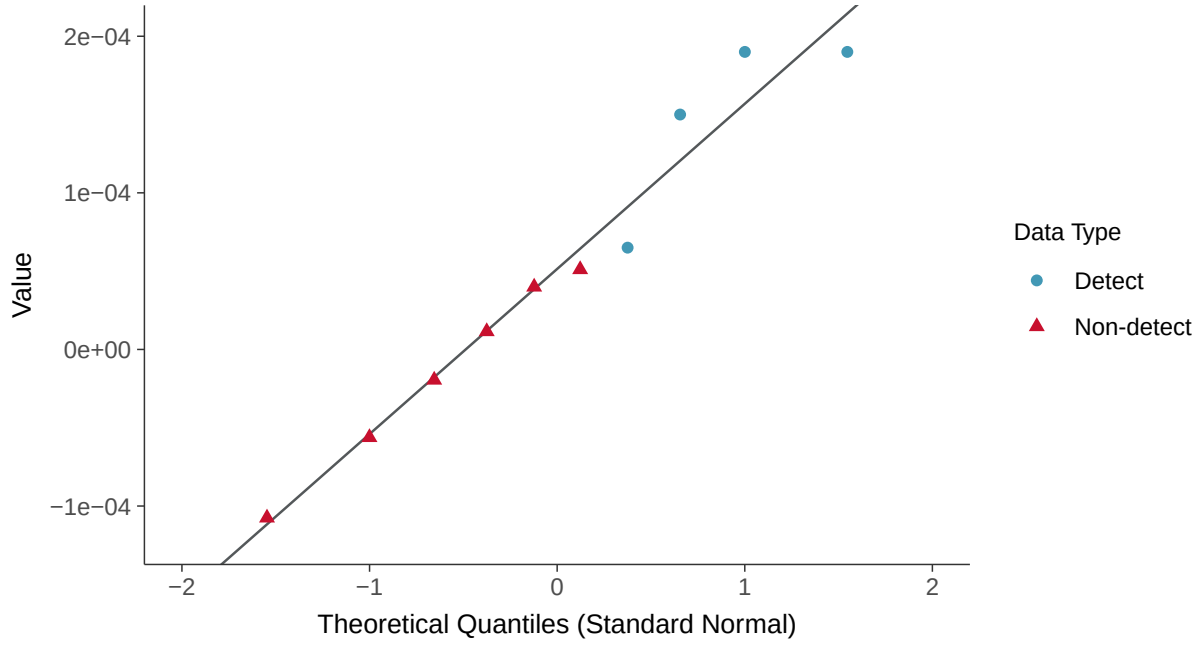
Boxplot by Season

Silver, MW-38 (mg/L)



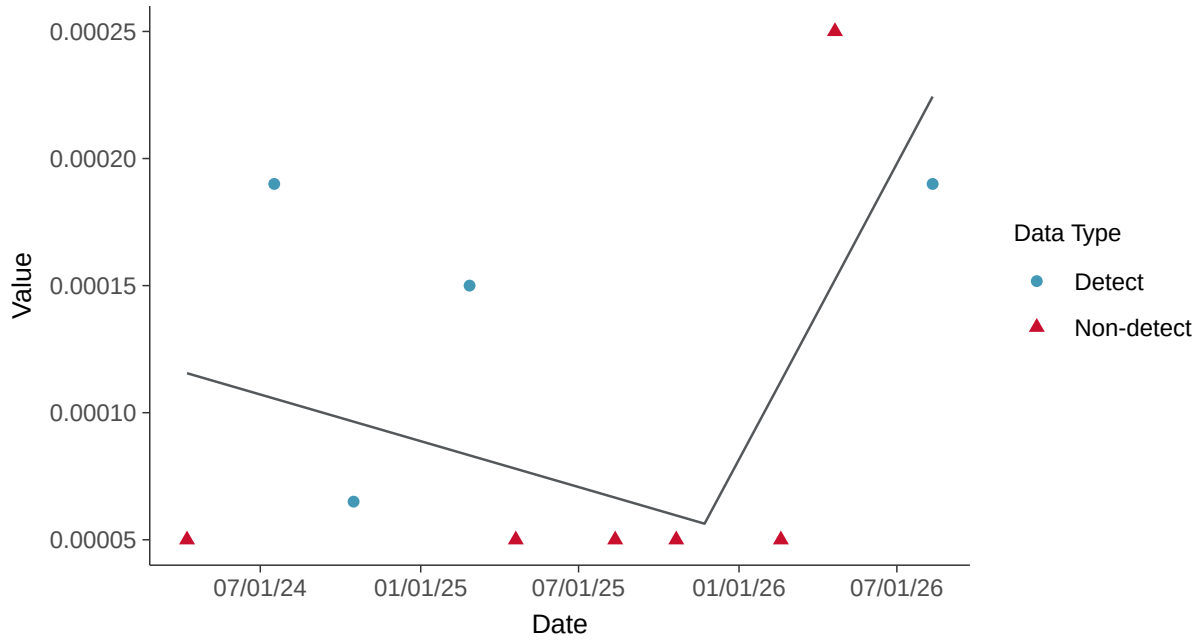
Normal Q-Q plot using ROS Imputed Estimates

Silver, MW-38 (mg/L)



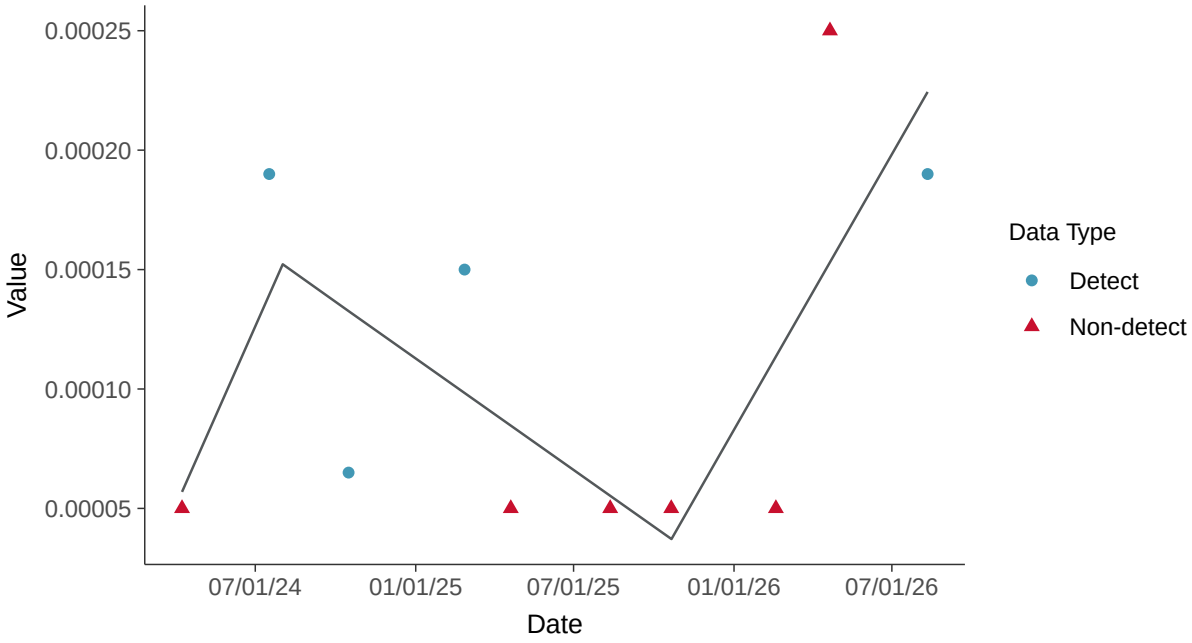
Trend Regression: Piecewise Linear-Linear

Silver, MW-38 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Silver, MW-38 (mg/L)

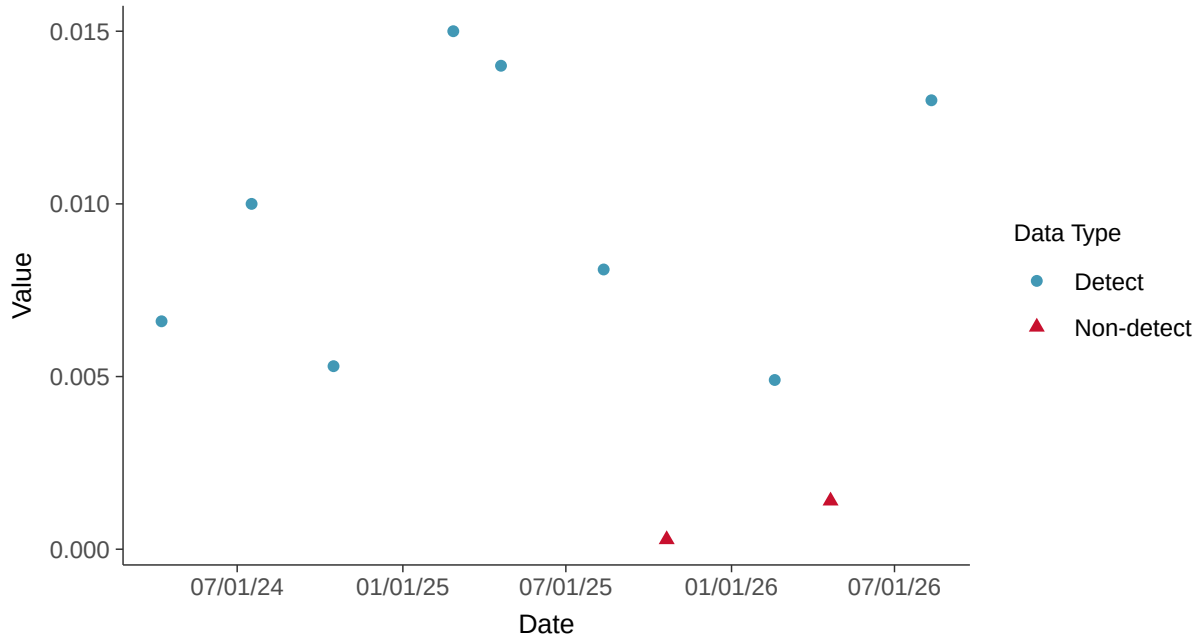


Part 115: Vanadium, MW-38

ID: 48_2_5_128

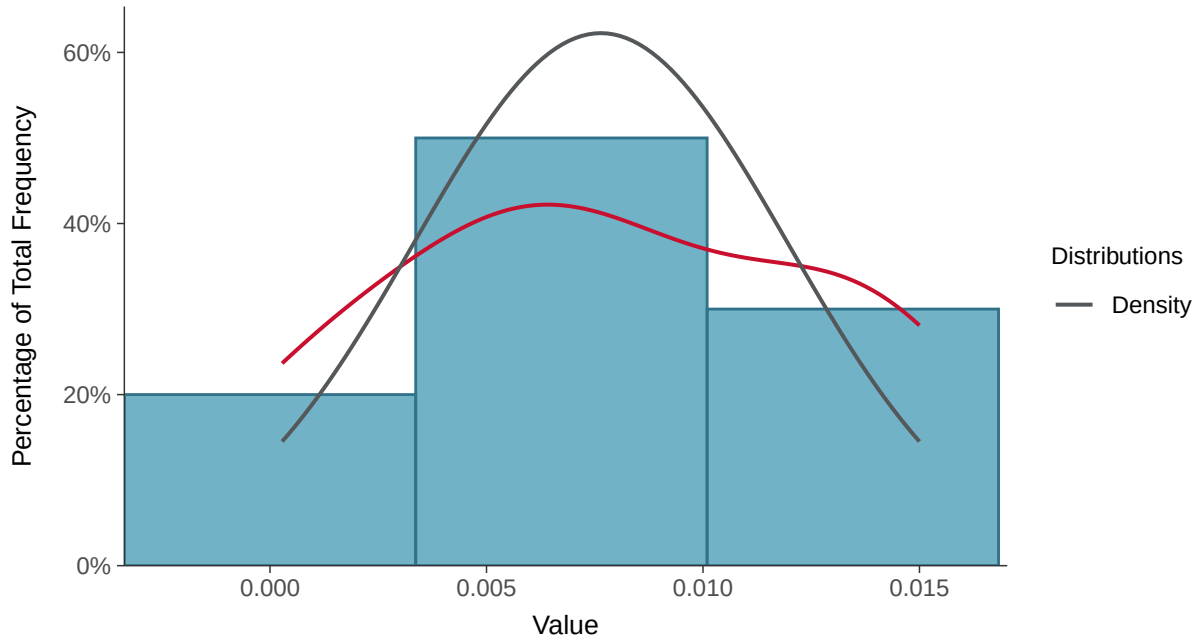
Scatter Plot

Vanadium, MW-38 (mg/L)



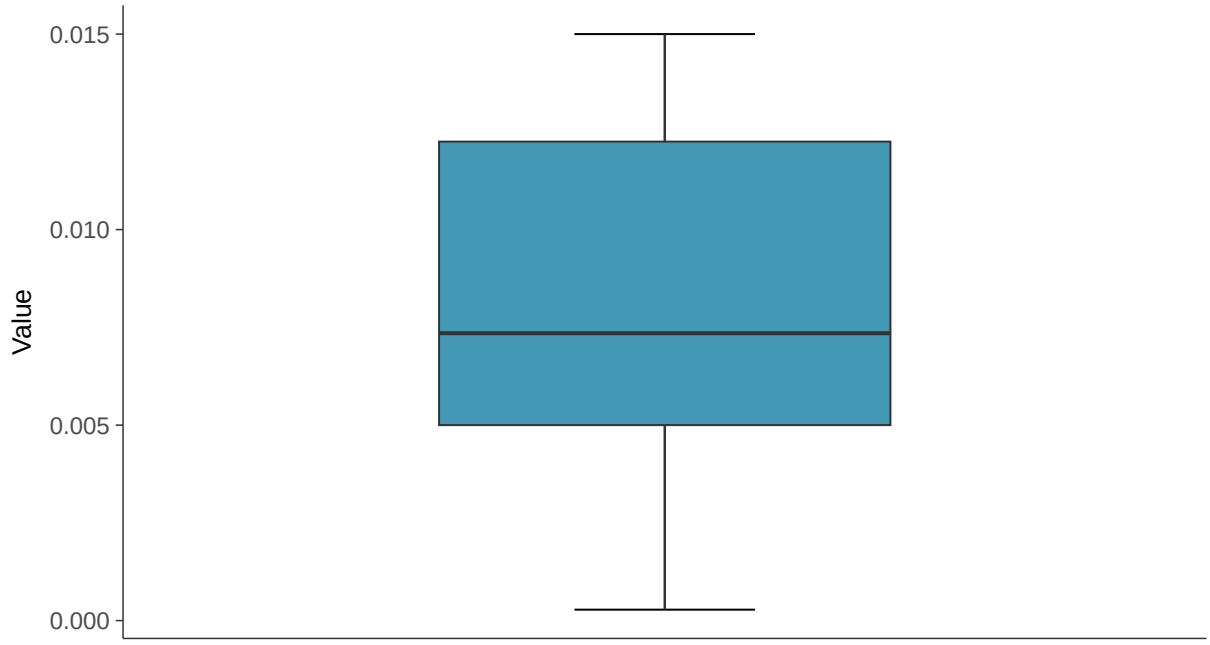
Histogram

Vanadium, MW-38 (mg/L)



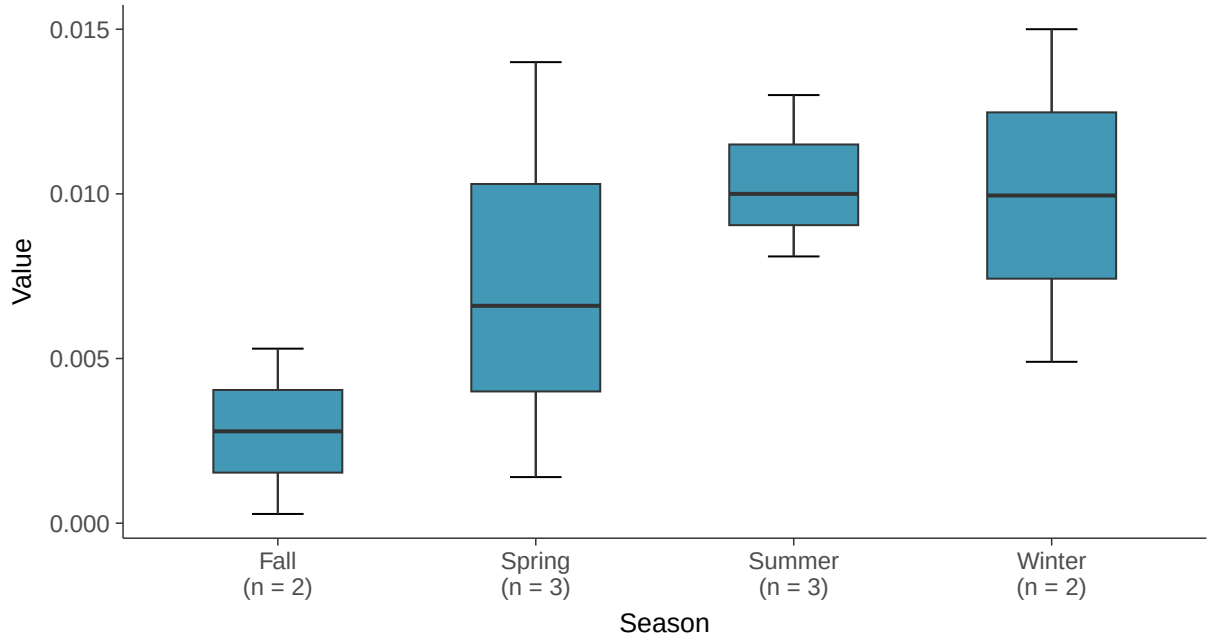
Boxplot

Vanadium, MW-38 (mg/L)



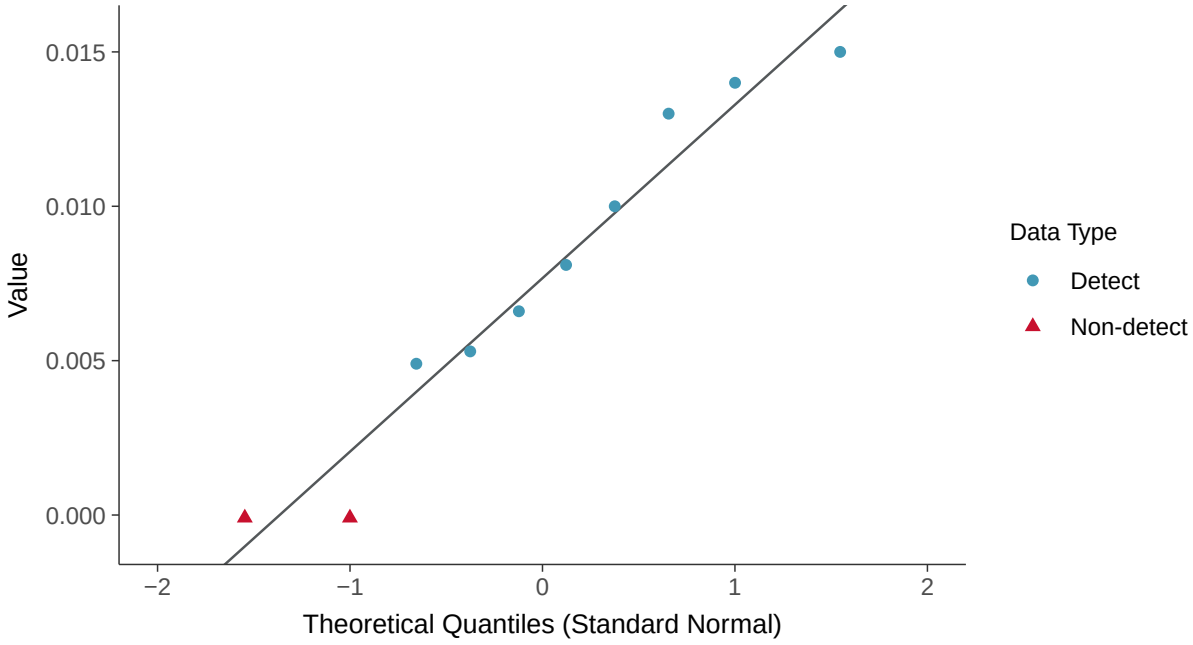
Boxplot by Season

Vanadium, MW-38 (mg/L)



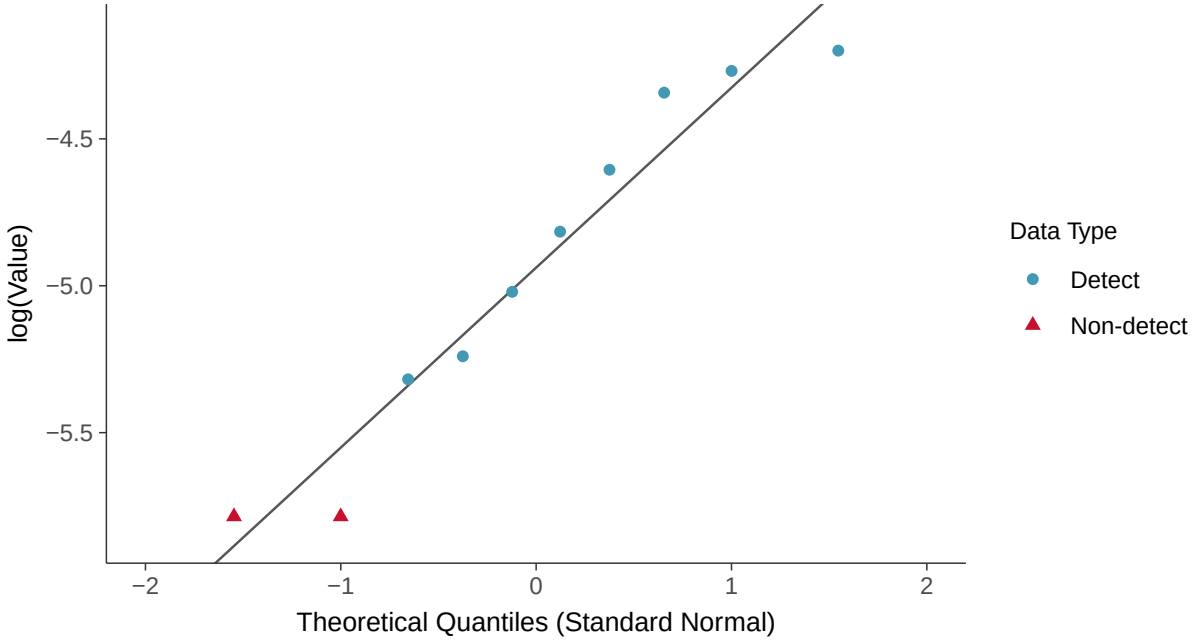
Normal Q-Q plot using ROS Imputed Estimates

Vanadium, MW-38 (mg/L)



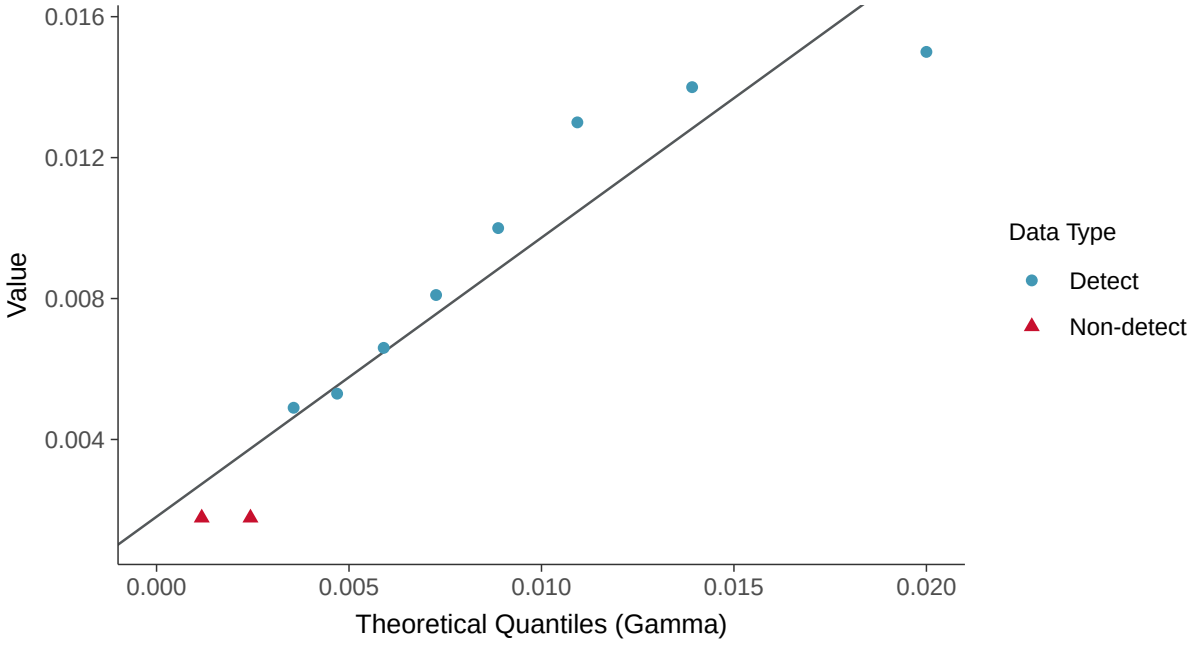
Lognormal Q-Q plot using ROS Imputed Estimates

Vanadium, MW-38 (mg/L)



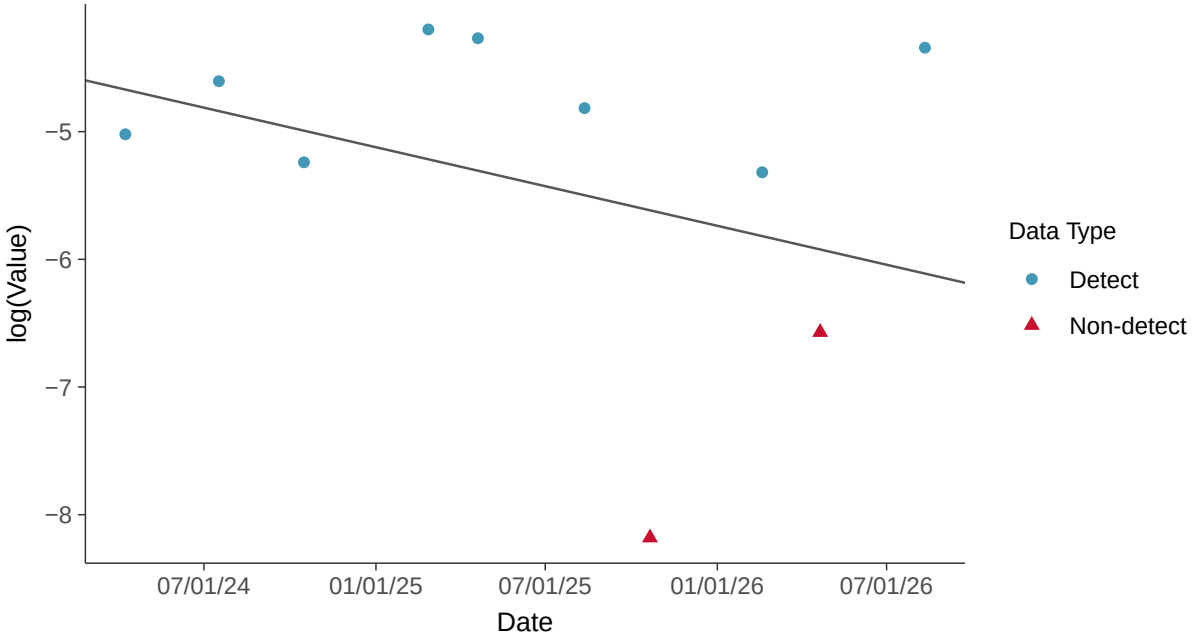
Gamma Q-Q plot using ROS Imputed Estimates

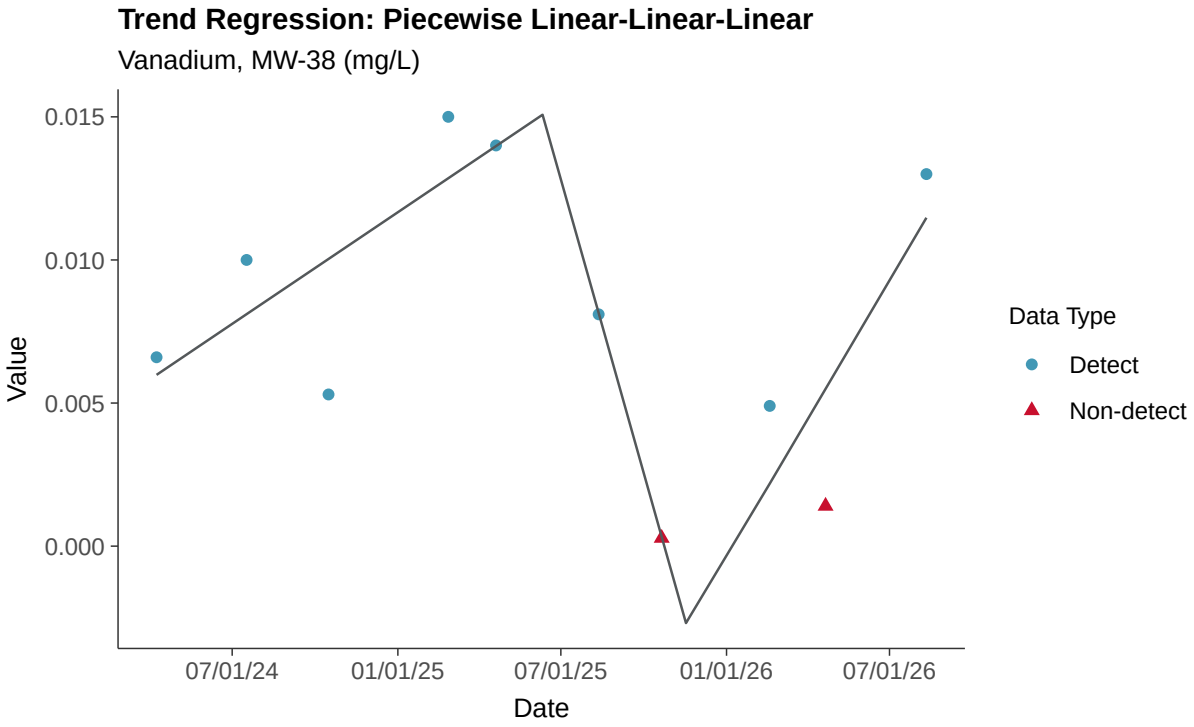
Vanadium, MW-38 (mg/L)



Trend Regression: Lognormal MLE

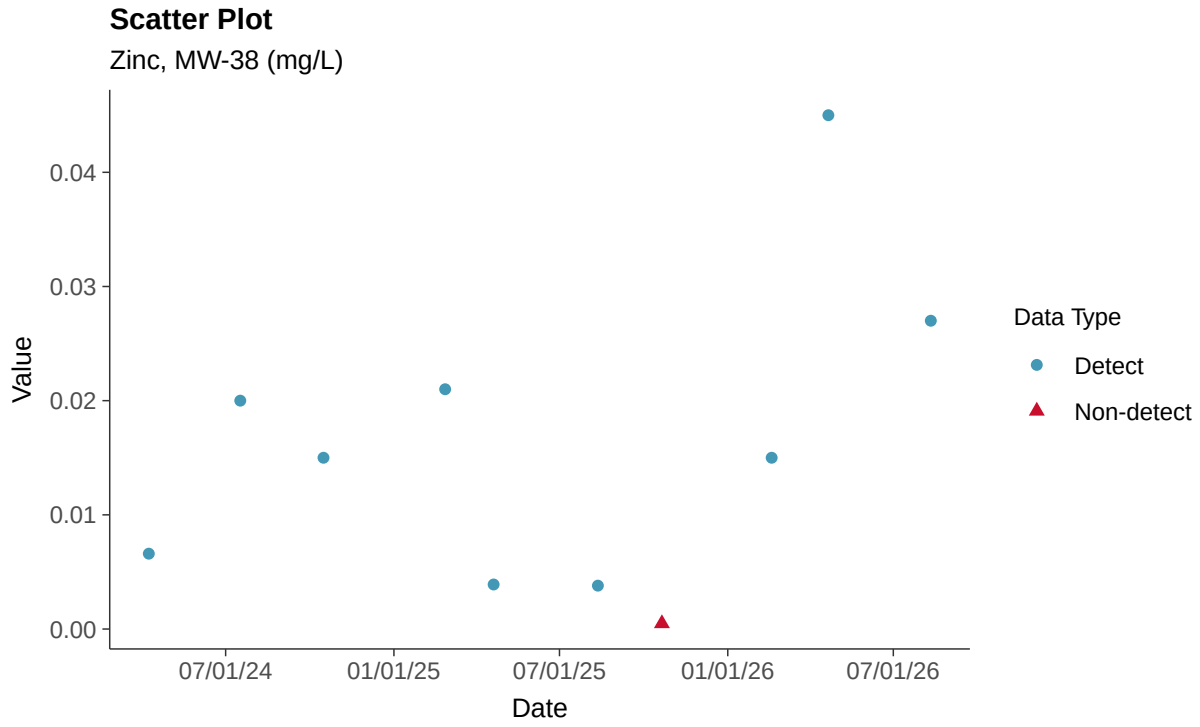
Vanadium, MW-38 (mg/L)

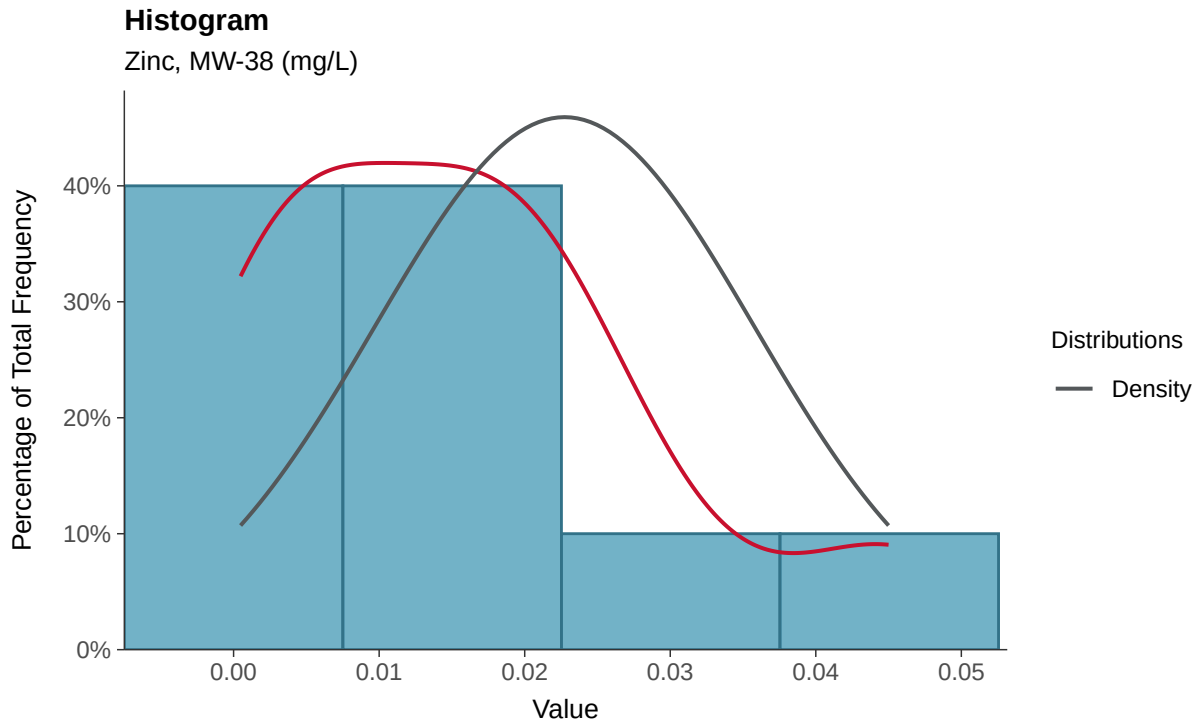



Trend Regression: Piecewise Linear-Linear-Linear
Vanadium, MW-38 (mg/L)
0.015
0.010
0.005
0.000
Value
07/01/24
01/01/25
07/01/25
01/01/26
07/01/26
Date
Data Type
Detect
Non-detect

Part 115: Zinc, MW-38

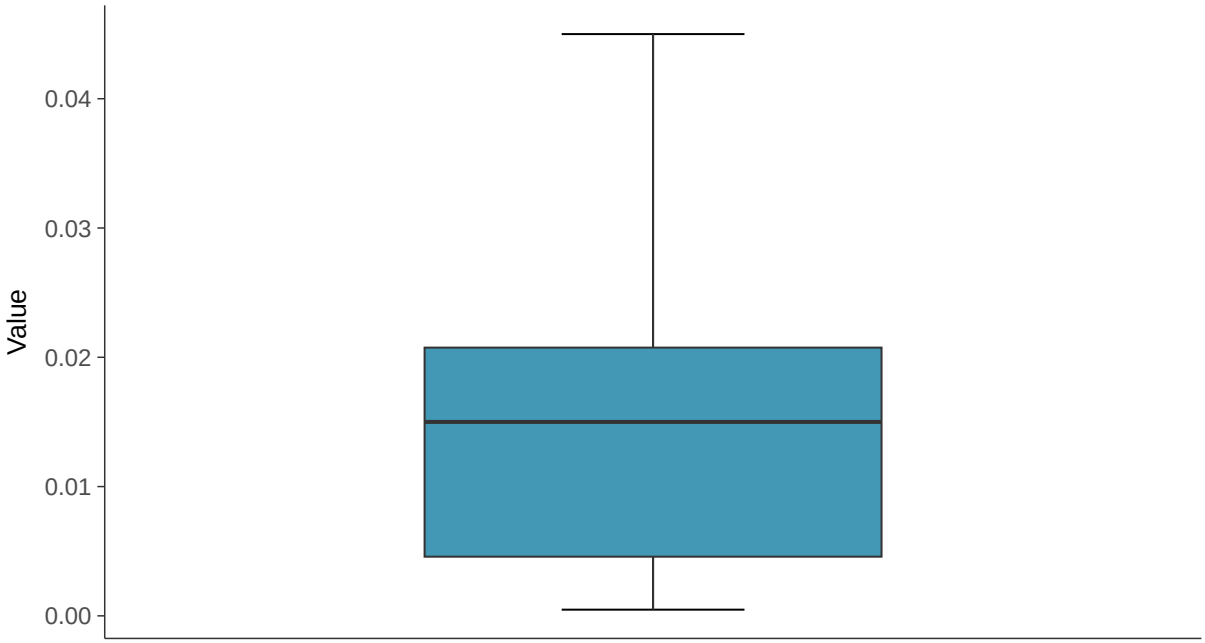
ID: 48_2_5_129





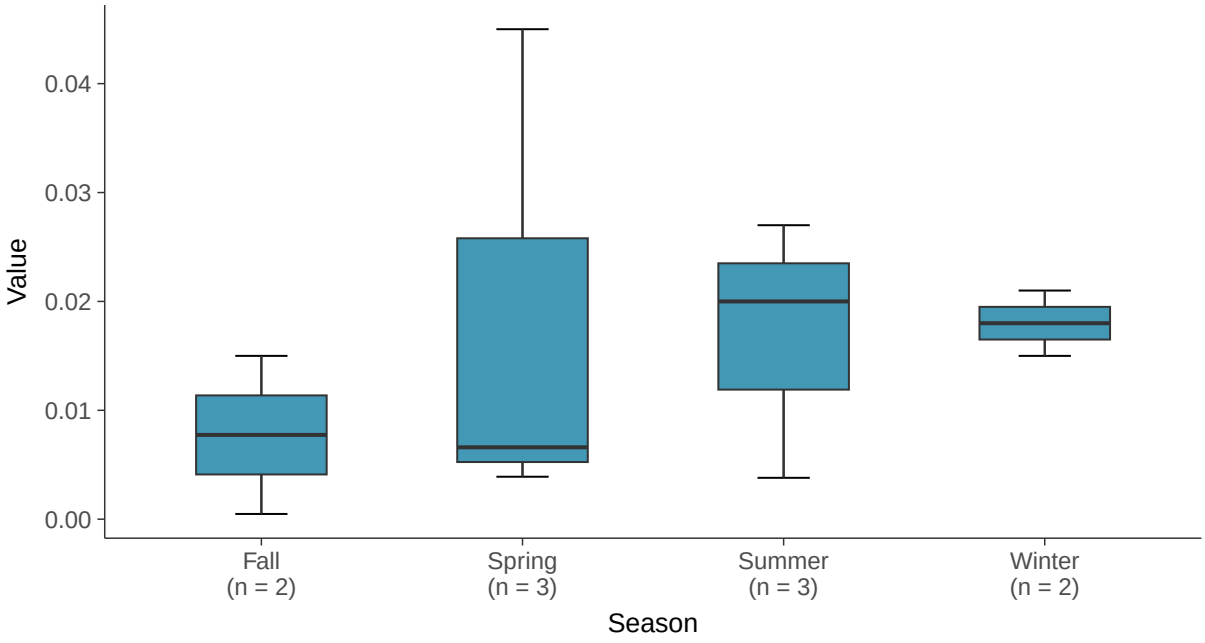
Boxplot

Zinc, MW-38 (mg/L)



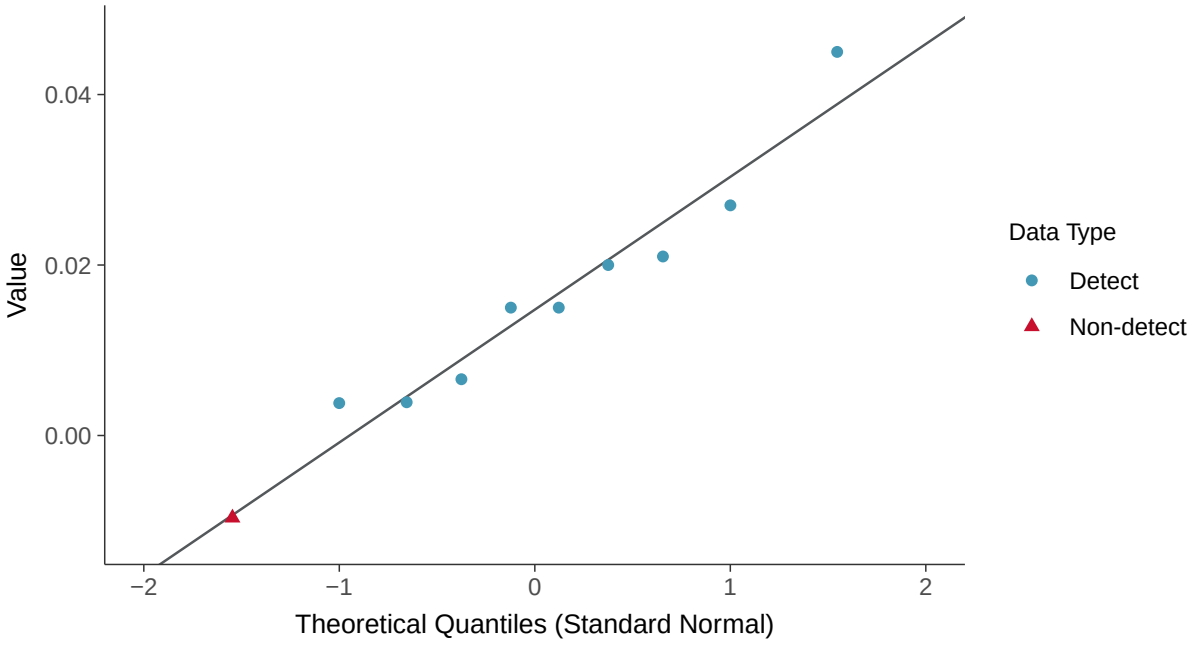
Boxplot by Season

Zinc, MW-38 (mg/L)



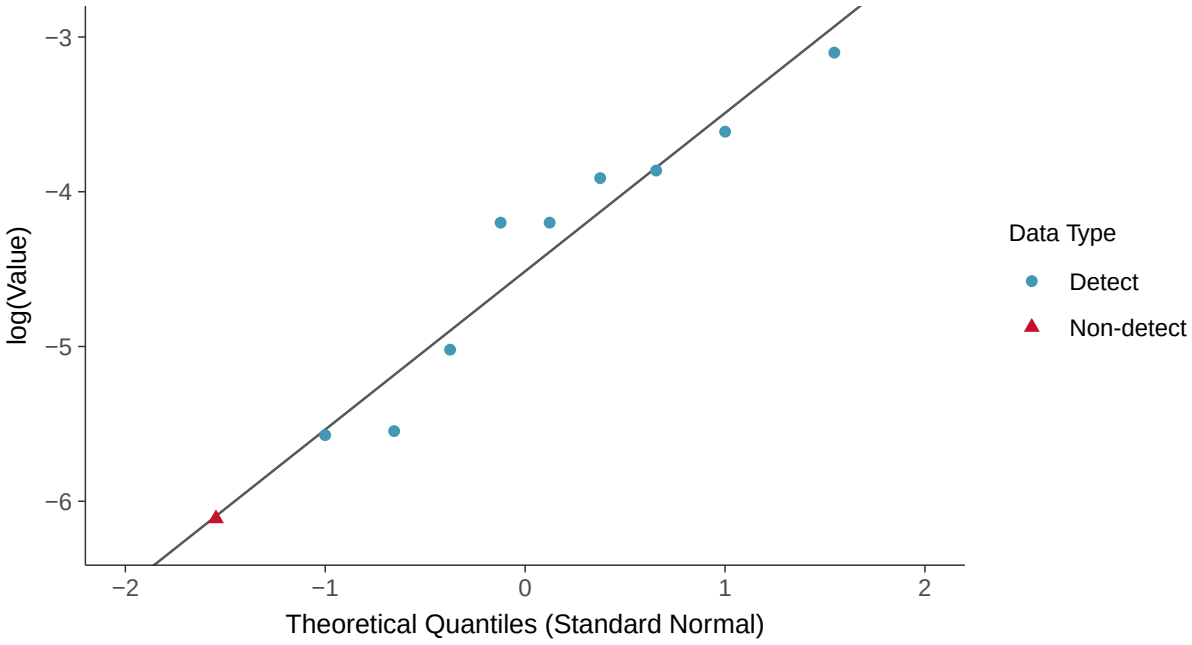
Normal Q-Q plot using ROS Imputed Estimates

Zinc, MW-38 (mg/L)



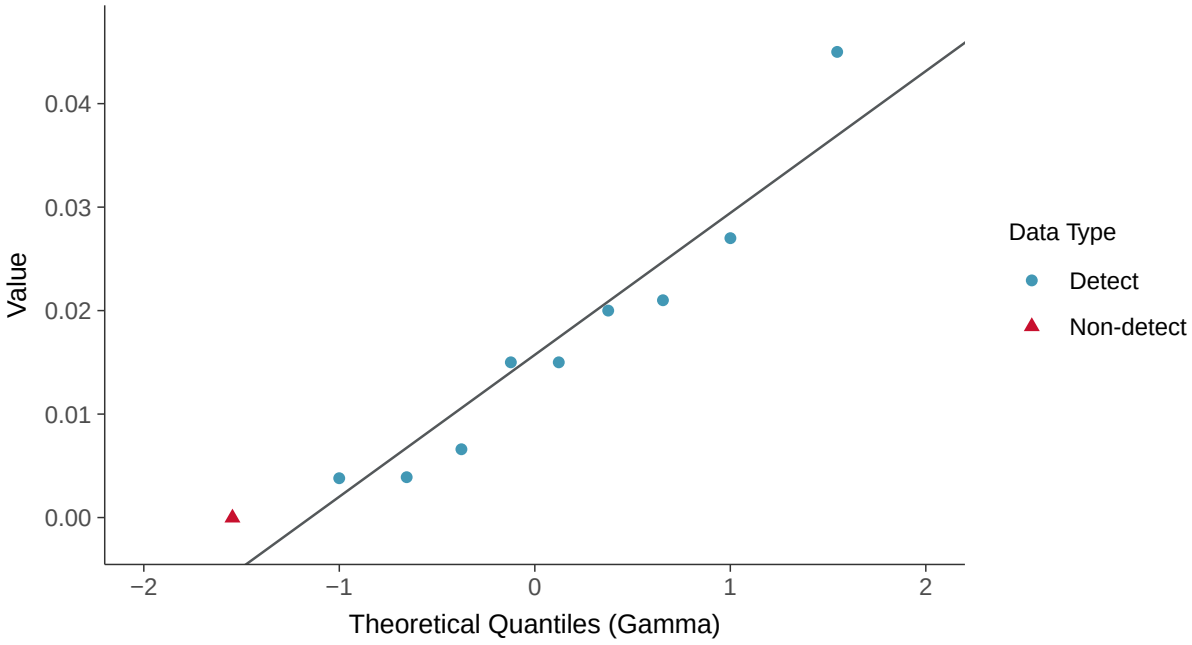
Lognormal Q-Q plot using ROS Imputed Estimates

Zinc, MW-38 (mg/L)



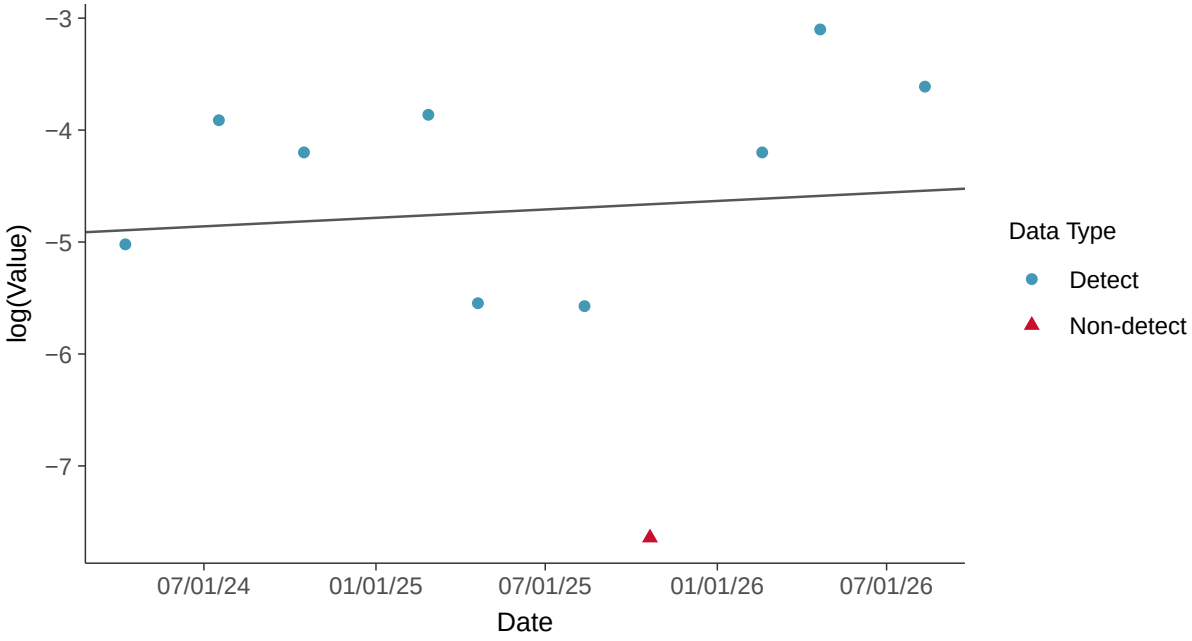
Gamma Q-Q plot using ROS Imputed Estimates

Zinc, MW-38 (mg/L)



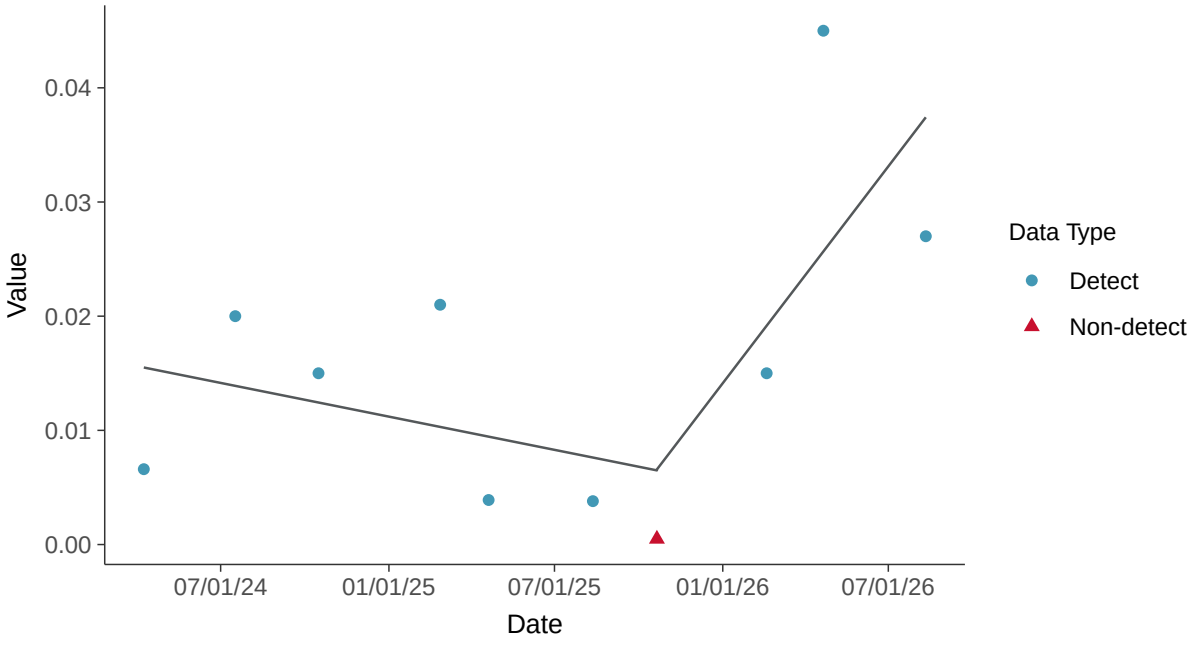
Trend Regression: Lognormal MLE

Zinc, MW-38 (mg/L)



Trend Regression: Piecewise Linear-Linear

Zinc, MW-38 (mg/L)



Grand Haven, Downgradient Wells
95% Lower Confidence Limits

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	LCL	Method
11_2_3_105	MW-01R	Appendix III	Boron	mg/L	20	0	0%	2022-11-29 to 2026-08-11	95	Normal LCL
11_2_3_107	MW-01R	Appendix III	Calcium	mg/L	20	0	0%	2022-11-29 to 2026-08-11	200	Normal LCL
11_2_3_108	MW-01R	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	2022-11-29 to 2026-08-11	110	Normal LCL
11_2_3_112	MW-01R	Appendix III	Fluoride	mg/L	20	0	0%	2022-11-29 to 2026-08-11	11	Normal LCL
11_2_3_120	MW-01R	Appendix III	pH (field)	su	20	0	0%	2022-11-29 to 2026-08-11	7.6	Nonparametric LCL around the Median
11_2_3_124	MW-01R	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	2022-11-29 to 2026-08-11	310	Adjusted Gamma LCL
11_2_3_126	MW-01R	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	2022-11-29 to 2026-08-11	2300	Normal LCL
11_2_4_101	MW-01R	Appendix IV	Antimony	mg/L	20	3	15%	2022-11-29 to 2026-08-11	0.00022	Nonparametric LCL around the Median
11_2_4_102	MW-01R	Appendix IV	Arsenic	mg/L	20	0	0%	2022-11-29 to 2026-08-11	0.0013	Nonparametric LCL around the Median
11_2_4_103	MW-01R	Appendix IV	Barium	mg/L	20	0	0%	2022-11-29 to 2026-08-11	0.32	Normal LCL
11_2_4_104	MW-01R	Appendix IV	Beryllium	mg/L	20	2	10%	2022-11-29 to 2026-08-11	0.00016	Normal MLE LCL
11_2_4_106	MW-01R	Appendix IV	Cadmium	mg/L	20	13	65%	2022-11-29 to 2026-08-11	0.000075	Nonparametric LCL around the Median
11_2_4_109	MW-01R	Appendix IV	Chromium, Total	mg/L	20	0	0%	2022-11-29 to 2026-08-11	0.0023	Lognormal H-LCL
11_2_4_110	MW-01R	Appendix IV	Cobalt	mg/L	20	0	0%	2022-11-29 to 2026-08-11	0.0011	Nonparametric LCL around the Median
11_2_4_113	MW-01R	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	2022-11-29 to 2026-08-11	11	Normal LCL
11_2_4_115	MW-01R	Appendix IV	Lead	mg/L	20	2	10%	2022-11-29 to 2026-08-11	0.0011	Lognormal MLE Likelihood Profile LCL
11_2_4_116	MW-01R	Appendix IV	Lithium	mg/L	20	0	0%	2022-11-29 to 2026-08-11	2.1	Normal LCL
11_2_4_117	MW-01R	Appendix IV	Mercury	ng/L	20	16	80%	2022-11-29 to 2026-08-11	6.3	Nonparametric LCL around the Median
11_2_4_118	MW-01R	Appendix IV	Molybdenum	mg/L	20	2	10%	2022-11-29 to 2026-08-11	0.00052	Nonparametric LCL around the Median
11_2_4_121	MW-01R	Appendix IV	Radium 226 and 228	pCi/L	20	13	65%	2022-11-29 to 2026-08-11	0.75	Nonparametric LCL around the Median
11_2_4_122	MW-01R	Appendix IV	Selenium	mg/L	20	0	0%	2022-11-29 to 2026-08-11	0.00059	Nonparametric LCL around the Median
11_2_4_125	MW-01R	Appendix IV	Thallium	mg/L	20	20	100%	2022-11-29 to 2026-08-11	0.000075	Nonparametric LCL around the Median
11_2_5_111	MW-01R	Part 115	Copper	mg/L	20	6	30%	2022-11-29 to 2026-08-11	0.00020	Nonparametric LCL around the Median
11_2_5_114	MW-01R	Part 115	Iron	mg/L	20	0	0%	2022-11-29 to 2026-08-11	0.38	Adjusted Gamma LCL
11_2_5_119	MW-01R	Part 115	Nickel	mg/L	20	0	0%	2022-11-29 to 2026-08-11	0.0018	Nonparametric LCL around the Median
11_2_5_123	MW-01R	Part 115	Silver	mg/L	20	20	100%	2022-11-29 to 2026-08-11	0.000050	Nonparametric LCL around the Median
11_2_5_128	MW-01R	Part 115	Vanadium	mg/L	20	2	10%	2022-11-29 to 2026-08-11	0.0016	Normal MLE LCL
11_2_5_129	MW-01R	Part 115	Zinc	mg/L	20	3	15%	2022-11-29 to 2026-08-11	0.0072	Gamma MLE Normal Approx. LCL
12_2_3_105	MW-02	Appendix III	Boron	mg/L	20	0	0%	2022-11-28 to 2026-08-12	97	Lognormal H-LCL
12_2_3_107	MW-02	Appendix III	Calcium	mg/L	20	0	0%	2022-11-28 to 2026-08-12	190	Normal LCL
12_2_3_108	MW-02	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	2022-11-28 to 2026-08-12	140	Nonparametric LCL around the Median
12_2_3_112	MW-02	Appendix III	Fluoride	mg/L	20	0	0%	2022-11-28 to 2026-08-12	9.4	Nonparametric LCL around the Median
12_2_3_120	MW-02	Appendix III	pH (field)	su	20	0	0%	2022-11-28 to 2026-08-12	7.2	Normal LCL
12_2_3_124	MW-02	Appendix III	Sulfate (as SO4)	mg/L	20	10	50%	2022-11-28 to 2026-08-12	0.41	Nonparametric LCL around the Median
12_2_3_126	MW-02	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	2022-11-28 to 2026-08-12	1800	Normal LCL
12_2_4_101	MW-02	Appendix IV	Antimony	mg/L	20	3	15%	2022-11-28 to 2026-08-12	0.00018	Gamma MLE Normal Approx. LCL
12_2_4_102	MW-02	Appendix IV	Arsenic	mg/L	20	0	0%	2022-11-28 to 2026-08-12	0.0064	Normal LCL
12_2_4_103	MW-02	Appendix IV	Barium	mg/L	20	0	0%	2022-11-28 to 2026-08-12	0.44	Normal LCL
12_2_4_104	MW-02	Appendix IV	Beryllium	mg/L	20	2	10%	2022-11-28 to 2026-08-12	0.00020	Normal MLE LCL
12_2_4_106	MW-02	Appendix IV	Cadmium	mg/L	20	14	70%	2022-11-28 to 2026-08-12	0.000075	Nonparametric LCL around the Median
12_2_4_109	MW-02	Appendix IV	Chromium, Total	mg/L	20	0	0%	2022-11-28 to 2026-08-12	0.031	Adjusted Gamma LCL
12_2_4_110	MW-02	Appendix IV	Cobalt	mg/L	20	0	0%	2022-11-28 to 2026-08-12	0.0052	Normal LCL
12_2_4_113	MW-02	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	2022-11-28 to 2026-08-12	9.4	Nonparametric LCL around the Median
12_2_4_115	MW-02	Appendix IV	Lead	mg/L	20	1	5%	2022-11-28 to 2026-08-12	0.0019	Normal MLE LCL
12_2_4_116	MW-02	Appendix IV	Lithium	mg/L	20	0	0%	2022-11-28 to 2026-08-12	1.3	Adjusted Gamma LCL
12_2_4_117	MW-02	Appendix IV	Mercury	ng/L	20	14	70%	2022-11-28 to 2026-08-12	5.4	Nonparametric LCL around the Median
12_2_4_118	MW-02	Appendix IV	Molybdenum	mg/L	20	0	0%	2022-11-28 to 2026-08-12	0.0064	Adjusted Gamma LCL
12_2_4_121	MW-02	Appendix IV	Radium 226 and 228	pCi/L	19	6	32%	2022-11-28 to 2026-08-12	0.93	Normal MLE LCL
12_2_4_122	MW-02	Appendix IV	Selenium	mg/L	20	0	0%	2022-11-28 to 2026-08-12	0.0011	Normal LCL
12_2_4_125	MW-02	Appendix IV	Thallium	mg/L	20	19	95%	2022-11-28 to 2026-08-12	0.000075	Nonparametric LCL around the Median
12_2_5_111	MW-02	Part 115	Copper	mg/L	20	0	0%	2022-11-28 to 2026-08-12	0.0016	Normal LCL
12_2_5_114	MW-02	Part 115	Iron	mg/L	20	0	0%	2022-11-28 to 2026-08-12	22	Normal LCL
12_2_5_119	MW-02	Part 115	Nickel	mg/L	20	0	0%	2022-11-28 to 2026-08-12	0.018	Nonparametric LCL around the Median
12_2_5_123	MW-02	Part 115	Silver	mg/L	20	20	100%	2022-11-28 to 2026-08-12	0.000050	Nonparametric LCL around the Median
12_2_5_128	MW-02	Part 115	Vanadium	mg/L	20	1	5%	2022-11-28 to 2026-08-12	0.0030	Normal MLE LCL
12_2_5_129	MW-02	Part 115	Zinc	mg/L	20	0	0%	2022-11-28 to 2026-08-12	0.0027	Nonparametric LCL around the Median
13_2_3_105	MW-03	Appendix III	Boron	mg/L	20	0	0%	2022-11-28 to 2026-08-13	3.9	Normal LCL
13_2_3_107	MW-03	Appendix III	Calcium	mg/L	20	0	0%	2022-11-28 to 2026-08-13	340	Normal LCL
13_2_3_108	MW-03	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	2022-11-28 to 2026-08-13	120	Normal LCL
13_2_3_112	MW-03	Appendix III	Fluoride	mg/L	20	0	0%	2022-11-28 to 2026-08-13	0.60	Nonparametric LCL around the Median
13_2_3_120	MW-03	Appendix III	pH (field)	su	20	0	0%	2022-11-28 to 2026-08-13	7.3	Normal LCL
13_2_3_124	MW-03	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	2022-11-28 to 2026-08-13	220	Adjusted Gamma LCL
13_2_3_126	MW-03	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	2022-11-28 to 2026-08-13	1700	Nonparametric LCL around the Median
13_2_4_101	MW-03	Appendix IV	Antimony	mg/L	20	14	70%	2022-11-28 to 2026-08-13	0.00010	Nonparametric LCL around the Median
13_2_4_102	MW-03	Appendix IV	Arsenic	mg/L	20	0	0%	2022-11-28 to 2026-08-13	0.00079	Normal LCL
13_2_4_103	MW-03	Appendix IV	Barium	mg/L	20	0	0%	2022-11-28 to 2026-08-13	0.32	Normal LCL
13_2_4_104	MW-03	Appendix IV	Beryllium	mg/L	20	13	65%	2022-11-28 to 2026-08-13	0.000052	Nonparametric LCL around the Median
13_2_4_106	MW-03	Appendix IV	Cadmium	mg/L	20	19	95%	2022-11-28 to 2026-08-13	0.000075	Nonparametric LCL around the Median
13_2_4_109	MW-03	Appendix IV	Chromium, Total	mg/L	20	0	0%	2022-11-28 to 2026-08-13	0.0039	Normal LCL
13_2_4_110	MW-03	Appendix IV	Cobalt	mg/L	20	0	0%	2022-11-28 to 2026-08-13	0.00063	Normal LCL
13_2_4_113	MW-03	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	2022-11-28 to 2026-08-13	0.60	Nonparametric LCL around the Median
13_2_4_115	MW-03	Appendix IV	Lead	mg/L	20	19	95%	2022-11-28 to 2026-08-13	0.00010	Nonparametric LCL around the Median
13_2_4_116	MW-03	Appendix IV	Lithium	mg/L	20	0	0%	2022-11-28 to 2026-08-13	0.033	Adjusted Gamma LCL
13_2_4_117	MW-03	Appendix IV	Mercury	ng/L	20	15	75%	2022-11-28 to 2026-08-13	0.77	Nonparametric LCL around the Median
13_2_4_118	MW-03	Appendix IV	Molybdenum	mg/L	20	14	70%	2022-11-28 to 2026-08-13	0.00025	Nonparametric LCL around the Median
13_2_4_121	MW-03	Appendix IV	Radium 226 and 228	pCi/L	19	3	16%	2022-11-28 to 2026-08-13	0.84	Normal MLE LCL
13_2_4_122	MW-03	Appendix IV	Selenium	mg/L	20	3	15%	2022-11-28 to 2026-08-13	0.00032	Normal MLE LCL
13_2_4_125	MW-03	Appendix IV	Thallium	mg/L	20	19	95%	2022-11-28 to 2026-08-13	0.000075	Nonparametric LCL around the Median
13_2_5_111	MW-03	Part 115	Copper	mg/L	20	9	45%	2022-11-28 to 2026-08-13	0.00024	Lognormal MLE Likelihood Profile LCL
13_2_5_114	MW-03	Part 115	Iron	mg/L	20	0	0%	2022-11-28 to 2026-08-13	0.81	Adjusted Gamma LCL
13_2_5_119	MW-03	Part 115	Nickel	mg/L	20	1	5%	2022-11-28 to 2026-08-13	0.0012	Nonparametric LCL around the Median
13_2_5_123	MW-03	Part 115	Silver	mg/L	20	20	100%	2022-11-28 to 2026-08-13	0.000050	Nonparametric LCL around the Median

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	LCL	Method
13_2_5_128	MW-03	Part 115	Vanadium	mg/L	20	9	45%	2022-11-28 to 2026-08-13	0.00048	Normal MLE LCL
13_2_5_129	MW-03	Part 115	Zinc	mg/L	20	9	45%	2022-11-28 to 2026-08-13	0.0012*	Nonparametric LCL around the Median
14_2_3_105	MW-04	Appendix III	Boron	mg/L	20	0	0%	2022-11-28 to 2026-08-13	3.7	Nonparametric LCL around the Median
14_2_3_107	MW-04	Appendix III	Calcium	mg/L	20	0	0%	2022-11-28 to 2026-08-13	340	Normal LCL
14_2_3_108	MW-04	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	2022-11-28 to 2026-08-13	100	Normal LCL
14_2_3_112	MW-04	Appendix III	Fluoride	mg/L	20	0	0%	2022-11-28 to 2026-08-13	1.3	Normal LCL
14_2_3_120	MW-04	Appendix III	pH (field)	su	20	0	0%	2022-11-28 to 2026-08-13	7.2	Normal LCL
14_2_3_124	MW-04	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	2022-11-28 to 2026-08-13	510	Normal LCL
14_2_3_126	MW-04	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	2022-11-28 to 2026-08-13	1700	Normal LCL
14_2_4_101	MW-04	Appendix IV	Antimony	mg/L	20	14	70%	2022-11-28 to 2026-08-13	0.00010	Nonparametric LCL around the Median
14_2_4_102	MW-04	Appendix IV	Arsenic	mg/L	20	0	0%	2022-11-28 to 2026-08-13	0.00088	Nonparametric LCL around the Median
14_2_4_103	MW-04	Appendix IV	Barium	mg/L	20	0	0%	2022-11-28 to 2026-08-13	0.11	Nonparametric LCL around the Median
14_2_4_104	MW-04	Appendix IV	Beryllium	mg/L	20	17	85%	2022-11-28 to 2026-08-13	0.000052	Nonparametric LCL around the Median
14_2_4_106	MW-04	Appendix IV	Cadmium	mg/L	20	20	100%	2022-11-28 to 2026-08-13	0.000075	Nonparametric LCL around the Median
14_2_4_109	MW-04	Appendix IV	Chromium, Total	mg/L	20	0	0%	2022-11-28 to 2026-08-13	0.0028	Normal LCL
14_2_4_110	MW-04	Appendix IV	Cobalt	mg/L	20	0	0%	2022-11-28 to 2026-08-13	0.00043	Lognormal H-LCL
14_2_4_113	MW-04	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	2022-11-28 to 2026-08-13	1.3	Normal LCL
14_2_4_115	MW-04	Appendix IV	Lead	mg/L	20	16	80%	2022-11-28 to 2026-08-13	0.00013	Nonparametric LCL around the Median
14_2_4_116	MW-04	Appendix IV	Lithium	mg/L	20	0	0%	2022-11-28 to 2026-08-13	0.052	Normal LCL
14_2_4_117	MW-04	Appendix IV	Mercury	ng/L	20	16	80%	2022-11-28 to 2026-08-13	2.9	Nonparametric LCL around the Median
14_2_4_118	MW-04	Appendix IV	Molybdenum	mg/L	20	2	10%	2022-11-28 to 2026-08-13	0.00083	Nonparametric LCL around the Median
14_2_4_121	MW-04	Appendix IV	Radium 226 and 228	pCi/L	20	7	35%	2022-11-28 to 2026-08-13	0.64	Normal MLE LCL
14_2_4_122	MW-04	Appendix IV	Selenium	mg/L	20	5	25%	2022-11-28 to 2026-08-13	0.00020	Lognormal MLE Likelihood Profile LCL
14_2_4_125	MW-04	Appendix IV	Thallium	mg/L	20	20	100%	2022-11-28 to 2026-08-13	0.000075	Nonparametric LCL around the Median
14_2_5_111	MW-04	Part 115	Copper	mg/L	20	14	70%	2022-11-28 to 2026-08-13	0.00020	Nonparametric LCL around the Median
14_2_5_114	MW-04	Part 115	Iron	mg/L	20	0	0%	2022-11-28 to 2026-08-13	4.8	Nonparametric LCL around the Median
14_2_5_119	MW-04	Part 115	Nickel	mg/L	20	0	0%	2022-11-28 to 2026-08-13	0.010	Normal LCL
14_2_5_123	MW-04	Part 115	Silver	mg/L	20	20	100%	2022-11-28 to 2026-08-13	0.000050	Nonparametric LCL around the Median
14_2_5_128	MW-04	Part 115	Vanadium	mg/L	20	10	50%	2022-11-28 to 2026-08-13	0.00062	Nonparametric LCL around the Median
14_2_5_129	MW-04	Part 115	Zinc	mg/L	20	10	50%	2022-11-28 to 2026-08-13	0.0012	Nonparametric LCL around the Median
16_1_3_105	MW-06	Appendix III	Boron	mg/L	20	0	0%	2022-11-29 to 2026-08-12	8.8	Normal LCL
16_1_3_107	MW-06	Appendix III	Calcium	mg/L	20	0	0%	2022-11-29 to 2026-08-12	230	Normal LCL
16_1_3_108	MW-06	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	2022-11-29 to 2026-08-12	48	Normal LCL
16_1_3_112	MW-06	Appendix III	Fluoride	mg/L	20	0	0%	2022-11-29 to 2026-08-12	1.2	Normal LCL
16_1_3_120	MW-06	Appendix III	pH (field)	su	20	0	0%	2022-11-29 to 2026-08-12	7.3	Nonparametric LCL around the Median
16_1_3_124	MW-06	Appendix III	Sulfate (as SO4)	mg/L	20	2	10%	2022-11-29 to 2026-08-12	10	Gamma MLE Normal Approx. LCL
16_1_3_126	MW-06	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	2022-11-29 to 2026-08-12	1200	Nonparametric LCL around the Median
16_1_4_101	MW-06	Appendix IV	Antimony	mg/L	20	17	85%	2022-11-29 to 2026-08-12	0.00010	Nonparametric LCL around the Median
16_1_4_102	MW-06	Appendix IV	Arsenic	mg/L	20	0	0%	2022-11-29 to 2026-08-12	0.00060	Normal LCL
16_1_4_103	MW-06	Appendix IV	Barium	mg/L	20	0	0%	2022-11-29 to 2026-08-12	1.4	Nonparametric LCL around the Median
16_1_4_104	MW-06	Appendix IV	Beryllium	mg/L	20	17	85%	2022-11-29 to 2026-08-12	0.000052	Nonparametric LCL around the Median
16_1_4_106	MW-06	Appendix IV	Cadmium	mg/L	20	20	100%	2022-11-29 to 2026-08-12	0.000075	Nonparametric LCL around the Median
16_1_4_109	MW-06	Appendix IV	Chromium, Total	mg/L	20	0	0%	2022-11-29 to 2026-08-12	0.0013	Adjusted Gamma LCL
16_1_4_110	MW-06	Appendix IV	Cobalt	mg/L	20	0	0%	2022-11-29 to 2026-08-12	0.00039	Nonparametric LCL around the Median
16_1_4_113	MW-06	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	2022-11-29 to 2026-08-12	1.2	Normal LCL
16_1_4_115	MW-06	Appendix IV	Lead	mg/L	20	10	50%	2022-11-29 to 2026-08-12	0.00011	Nonparametric LCL around the Median
16_1_4_116	MW-06	Appendix IV	Lithium	mg/L	20	0	0%	2022-11-29 to 2026-08-12	0.16	Normal LCL
16_1_4_117	MW-06	Appendix IV	Mercury	ng/L	20	15	75%	2022-11-29 to 2026-08-12	0.89	Nonparametric LCL around the Median
16_1_4_118	MW-06	Appendix IV	Molybdenum	mg/L	20	10	50%	2022-11-29 to 2026-08-12	0.00025	Nonparametric LCL around the Median
16_1_4_121	MW-06	Appendix IV	Radium 226 and 228	pCi/L	20	4	20%	2022-11-29 to 2026-08-12	0.71	Gamma MLE Normal Approx. LCL
16_1_4_122	MW-06	Appendix IV	Selenium	mg/L	20	5	25%	2022-11-29 to 2026-08-12	0.00020	Nonparametric LCL around the Median
16_1_4_125	MW-06	Appendix IV	Thallium	mg/L	20	19	95%	2022-11-29 to 2026-08-12	0.000075	Nonparametric LCL around the Median
16_1_5_111	MW-06	Part 115	Copper	mg/L	20	13	65%	2022-11-29 to 2026-08-12	0.00020	Nonparametric LCL around the Median
16_1_5_114	MW-06	Part 115	Iron	mg/L	20	0	0%	2022-11-29 to 2026-08-12	12	Normal LCL
16_1_5_119	MW-06	Part 115	Nickel	mg/L	20	6	30%	2022-11-29 to 2026-08-12	0.00065	Nonparametric LCL around the Median
16_1_5_123	MW-06	Part 115	Silver	mg/L	20	19	95%	2022-11-29 to 2026-08-12	0.000050	Nonparametric LCL around the Median
16_1_5_128	MW-06	Part 115	Vanadium	mg/L	20	14	70%	2022-11-29 to 2026-08-12	0.00062	Nonparametric LCL around the Median
16_1_5_129	MW-06	Part 115	Zinc	mg/L	20	2	10%	2022-11-29 to 2026-08-12	0.0013	Nonparametric LCL around the Median
17_1_3_105	MW-07	Appendix III	Boron	mg/L	20	0	0%	2022-11-30 to 2026-08-11	10	Nonparametric LCL around the Median
17_1_3_107	MW-07	Appendix III	Calcium	mg/L	20	0	0%	2022-11-30 to 2026-08-11	140	Normal LCL
17_1_3_108	MW-07	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	2022-11-30 to 2026-08-11	14	Nonparametric LCL around the Median
17_1_3_112	MW-07	Appendix III	Fluoride	mg/L	20	4	20%	2022-11-30 to 2026-08-11	0.090	Normal MLE LCL
17_1_3_120	MW-07	Appendix III	pH (field)	su	20	0	0%	2022-11-30 to 2026-08-11	6.8	Normal LCL
17_1_3_124	MW-07	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	2022-11-30 to 2026-08-11	22	Normal LCL
17_1_3_126	MW-07	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	2022-11-30 to 2026-08-11	640	Normal LCL
17_1_4_101	MW-07	Appendix IV	Antimony	mg/L	20	19	95%	2022-11-30 to 2026-08-11	0.00010	Nonparametric LCL around the Median
17_1_4_102	MW-07	Appendix IV	Arsenic	mg/L	20	0	0%	2022-11-30 to 2026-08-11	0.00018	Normal LCL
17_1_4_103	MW-07	Appendix IV	Barium	mg/L	20	0	0%	2022-11-30 to 2026-08-11	0.34	Normal LCL
17_1_4_104	MW-07	Appendix IV	Beryllium	mg/L	20	15	75%	2022-11-30 to 2026-08-11	0.000052	Nonparametric LCL around the Median
17_1_4_106	MW-07	Appendix IV	Cadmium	mg/L	20	20	100%	2022-11-30 to 2026-08-11	0.000075	Nonparametric LCL around the Median
17_1_4_109	MW-07	Appendix IV	Chromium, Total	mg/L	20	0	0%	2022-11-30 to 2026-08-11	0.00032	Adjusted Gamma LCL
17_1_4_110	MW-07	Appendix IV	Cobalt	mg/L	20	0	0%	2022-11-30 to 2026-08-11	0.00091	Normal LCL
17_1_4_113	MW-07	Appendix IV	Fluoride (App IV)	mg/L	20	4	20%	2022-11-30 to 2026-08-11	0.090	Normal MLE LCL
17_1_4_115	MW-07	Appendix IV	Lead	mg/L	20	20	100%	2022-11-30 to 2026-08-11	0.00010	Nonparametric LCL around the Median
17_1_4_116	MW-07	Appendix IV	Lithium	mg/L	20	0	0%	2022-11-30 to 2026-08-11	0.0057	Normal LCL
17_1_4_117	MW-07	Appendix IV	Mercury	ng/L	20	19	95%	2022-11-30 to 2026-08-11	0.24	Nonparametric LCL around the Median
17_1_4_118	MW-07	Appendix IV	Molybdenum	mg/L	20	20	100%	2022-11-30 to 2026-08-11	0.00025	Nonparametric LCL around the Median
17_1_4_121	MW-07	Appendix IV	Radium 226 and 228	pCi/L	20	2	10%	2022-11-30 to 2026-08-11	0.81	Gamma MLE Normal Approx. LCL
17_1_4_122	MW-07	Appendix IV	Selenium	mg/L	20	9	45%	2022-11-30 to 2026-08-11	0.00010	Nonparametric LCL around the Median
17_1_4_125	MW-07	Appendix IV	Thallium	mg/L	20	20	100%	2022-11-30 to 2026-08-11	0.000075	Nonparametric LCL around the Median
17_1_5_111	MW-07	Part 115	Copper	mg/L	20	15	75%	2022-11-30 to 2026-08-11	0.00020	Nonparametric LCL around the Median
17_1_5_114	MW-07	Part 115	Iron	mg/L	20	0	0%	2022-11-30 to 2026-08-11	16	Normal LCL
17_1_5_119	MW-07	Part 115	Nickel	mg/L	20	14	70%	2022-11-30 to 2026-08-11	0.00065	Nonparametric LCL around the Median
17_1_5_123	MW-07	Part 115	Silver	mg/L	20	20	100%	2022-11-30 to 2026-08-11	0.000050	Nonparametric LCL around the Median

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	LCL	Method
17_1_5_128	MW-07	Part 115	Vanadium	mg/L	20	12	60%	2022-11-30 to 2026-08-11	0.00062	Nonparametric LCL around the Median
17_1_5_129	MW-07	Part 115	Zinc	mg/L	20	10	50%	2022-11-30 to 2026-08-11	0.0012	Nonparametric LCL around the Median
18_1_3_105	MW-08	Appendix III	Boron	mg/L	20	0	0%	2022-12-01 to 2026-08-12	5.4	Normal LCL
18_1_3_107	MW-08	Appendix III	Calcium	mg/L	20	0	0%	2022-12-01 to 2026-08-12	130	Normal LCL
18_1_3_108	MW-08	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	2022-12-01 to 2026-08-12	25	Nonparametric LCL around the Median
18_1_3_112	MW-08	Appendix III	Fluoride	mg/L	20	0	0%	2022-12-01 to 2026-08-12	0.87	Normal LCL
18_1_3_120	MW-08	Appendix III	pH (field)	su	20	0	0%	2022-12-01 to 2026-08-12	7.2	Nonparametric LCL around the Median
18_1_3_124	MW-08	Appendix III	Sulfate (as SO4)	mg/L	20	5	25%	2022-12-01 to 2026-08-12	6.2	Gamma MLE Normal Approx. LCL
18_1_3_126	MW-08	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	2022-12-01 to 2026-08-12	510	Normal LCL
18_1_4_101	MW-08	Appendix IV	Antimony	mg/L	20	12	60%	2022-12-01 to 2026-08-12	0.00010	Nonparametric LCL around the Median
18_1_4_102	MW-08	Appendix IV	Arsenic	mg/L	20	0	0%	2022-12-01 to 2026-08-12	0.034	Normal LCL
18_1_4_103	MW-08	Appendix IV	Barium	mg/L	20	0	0%	2022-12-01 to 2026-08-12	1.1	Normal LCL
18_1_4_104	MW-08	Appendix IV	Beryllium	mg/L	20	19	95%	2022-12-01 to 2026-08-12	0.000052	Nonparametric LCL around the Median
18_1_4_106	MW-08	Appendix IV	Cadmium	mg/L	20	19	95%	2022-12-01 to 2026-08-12	0.000075	Nonparametric LCL around the Median
18_1_4_109	MW-08	Appendix IV	Chromium, Total	mg/L	20	0	0%	2022-12-01 to 2026-08-12	0.00064	Normal LCL
18_1_4_110	MW-08	Appendix IV	Cobalt	mg/L	20	0	0%	2022-12-01 to 2026-08-12	0.00041	Normal LCL
18_1_4_113	MW-08	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	2022-12-01 to 2026-08-12	0.87	Normal LCL
18_1_4_115	MW-08	Appendix IV	Lead	mg/L	20	12	60%	2022-12-01 to 2026-08-12	0.00010	Nonparametric LCL around the Median
18_1_4_116	MW-08	Appendix IV	Lithium	mg/L	20	0	0%	2022-12-01 to 2026-08-12	0.087	Normal LCL
18_1_4_117	MW-08	Appendix IV	Mercury	ng/L	20	18	90%	2022-12-01 to 2026-08-12	1.2	Nonparametric LCL around the Median
18_1_4_118	MW-08	Appendix IV	Molybdenum	mg/L	20	2	10%	2022-12-01 to 2026-08-12	0.0010	Normal MLE LCL
18_1_4_121	MW-08	Appendix IV	Radium 226 and 228	pCi/L	20	5	25%	2022-12-01 to 2026-08-12	0.68	Normal MLE LCL
18_1_4_122	MW-08	Appendix IV	Selenium	mg/L	20	7	35%	2022-12-01 to 2026-08-12	0.00012	Gamma MLE Normal Approx. LCL
18_1_4_125	MW-08	Appendix IV	Thallium	mg/L	20	19	95%	2022-12-01 to 2026-08-12	0.000075	Nonparametric LCL around the Median
18_1_5_111	MW-08	Part 115	Copper	mg/L	20	6	30%	2022-12-01 to 2026-08-12	0.00021	Normal MLE LCL
18_1_5_114	MW-08	Part 115	Iron	mg/L	20	0	0%	2022-12-01 to 2026-08-12	14	Normal LCL
18_1_5_119	MW-08	Part 115	Nickel	mg/L	20	0	0%	2022-12-01 to 2026-08-12	0.0020	Lognormal H-LCL
18_1_5_123	MW-08	Part 115	Silver	mg/L	20	20	100%	2022-12-01 to 2026-08-12	0.000050	Nonparametric LCL around the Median
18_1_5_128	MW-08	Part 115	Vanadium	mg/L	20	17	85%	2022-12-01 to 2026-08-12	0.00062	Nonparametric LCL around the Median
18_1_5_129	MW-08	Part 115	Zinc	mg/L	20	3	15%	2022-12-01 to 2026-08-12	0.0015	Nonparametric LCL around the Median
19_2_3_105	MW-09	Appendix III	Boron	mg/L	20	0	0%	2022-11-28 to 2026-08-10	5.1	Nonparametric LCL around the Median
19_2_3_107	MW-09	Appendix III	Calcium	mg/L	20	0	0%	2022-11-28 to 2026-08-10	380	Normal LCL
19_2_3_108	MW-09	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	2022-11-28 to 2026-08-10	25	Lognormal H-LCL
19_2_3_112	MW-09	Appendix III	Fluoride	mg/L	20	0	0%	2022-11-28 to 2026-08-10	2.3	Normal LCL
19_2_3_120	MW-09	Appendix III	pH (field)	su	20	0	0%	2022-11-28 to 2026-08-10	7.1	Normal LCL
19_2_3_124	MW-09	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	2022-11-28 to 2026-08-10	480	Normal LCL
19_2_3_126	MW-09	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	2022-11-28 to 2026-08-10	1400	Normal LCL
19_2_4_101	MW-09	Appendix IV	Antimony	mg/L	20	12	60%	2022-11-28 to 2026-08-10	0.00010	Nonparametric LCL around the Median
19_2_4_102	MW-09	Appendix IV	Arsenic	mg/L	20	0	0%	2022-11-28 to 2026-08-10	0.0019	Normal LCL
19_2_4_103	MW-09	Appendix IV	Barium	mg/L	20	0	0%	2022-11-28 to 2026-08-10	0.20	Lognormal H-LCL
19_2_4_104	MW-09	Appendix IV	Beryllium	mg/L	20	15	75%	2022-11-28 to 2026-08-10	0.000052	Nonparametric LCL around the Median
19_2_4_106	MW-09	Appendix IV	Cadmium	mg/L	20	19	95%	2022-11-28 to 2026-08-10	0.000075	Nonparametric LCL around the Median
19_2_4_109	MW-09	Appendix IV	Chromium, Total	mg/L	20	0	0%	2022-11-28 to 2026-08-10	0.0021	Normal LCL
19_2_4_110	MW-09	Appendix IV	Cobalt	mg/L	20	0	0%	2022-11-28 to 2026-08-10	0.00035	Nonparametric LCL around the Median
19_2_4_113	MW-09	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	2022-11-28 to 2026-08-10	2.3	Normal LCL
19_2_4_115	MW-09	Appendix IV	Lead	mg/L	20	17	85%	2022-11-28 to 2026-08-10	0.00010	Nonparametric LCL around the Median
19_2_4_116	MW-09	Appendix IV	Lithium	mg/L	20	0	0%	2022-11-28 to 2026-08-10	0.29	Nonparametric LCL around the Median
19_2_4_117	MW-09	Appendix IV	Mercury	ng/L	20	14	70%	2022-11-28 to 2026-08-10	4.0	Nonparametric LCL around the Median
19_2_4_118	MW-09	Appendix IV	Molybdenum	mg/L	20	0	0%	2022-11-28 to 2026-08-10	0.020	Normal LCL
19_2_4_121	MW-09	Appendix IV	Radium 226 and 228	pCi/L	20	18	90%	2022-11-28 to 2026-08-10	0.68	Nonparametric LCL around the Median
19_2_4_122	MW-09	Appendix IV	Selenium	mg/L	20	2	10%	2022-11-28 to 2026-08-10	0.00024	Nonparametric LCL around the Median
19_2_4_125	MW-09	Appendix IV	Thallium	mg/L	20	20	100%	2022-11-28 to 2026-08-10	0.000075	Nonparametric LCL around the Median
19_2_5_111	MW-09	Part 115	Copper	mg/L	20	11	55%	2022-11-28 to 2026-08-10	0.00020	Nonparametric LCL around the Median
19_2_5_114	MW-09	Part 115	Iron	mg/L	20	0	0%	2022-11-28 to 2026-08-10	18	Normal LCL
19_2_5_119	MW-09	Part 115	Nickel	mg/L	20	0	0%	2022-11-28 to 2026-08-10	0.0018	Nonparametric LCL around the Median
19_2_5_123	MW-09	Part 115	Silver	mg/L	20	20	100%	2022-11-28 to 2026-08-10	0.000050	Nonparametric LCL around the Median
19_2_5_128	MW-09	Part 115	Vanadium	mg/L	20	15	75%	2022-11-28 to 2026-08-10	0.00062	Nonparametric LCL around the Median
19_2_5_129	MW-09	Part 115	Zinc	mg/L	20	8	40%	2022-11-28 to 2026-08-10	0.0035	Gamma MLE Normal Approx. LCL
20_3_3_105	MW-10	Appendix III	Boron	mg/L	20	0	0%	2022-11-29 to 2026-08-10	16	Normal LCL
20_3_3_107	MW-10	Appendix III	Calcium	mg/L	20	0	0%	2022-11-29 to 2026-08-10	250	Adjusted Gamma LCL
20_3_3_108	MW-10	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	2022-11-29 to 2026-08-10	260	Normal LCL
20_3_3_112	MW-10	Appendix III	Fluoride	mg/L	20	0	0%	2022-11-29 to 2026-08-10	4.8	Normal LCL
20_3_3_120	MW-10	Appendix III	pH (field)	su	20	0	0%	2022-11-29 to 2026-08-10	7.5	Nonparametric LCL around the Median
20_3_3_124	MW-10	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	2022-11-29 to 2026-08-10	370	Normal LCL
20_3_3_126	MW-10	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	2022-11-29 to 2026-08-10	1800	Nonparametric LCL around the Median
20_3_4_101	MW-10	Appendix IV	Antimony	mg/L	20	15	75%	2022-11-29 to 2026-08-10	0.00010	Nonparametric LCL around the Median
20_3_4_102	MW-10	Appendix IV	Arsenic	mg/L	20	0	0%	2022-11-29 to 2026-08-10	0.00064	Normal LCL
20_3_4_103	MW-10	Appendix IV	Barium	mg/L	20	0	0%	2022-11-29 to 2026-08-10	0.29	Normal LCL
20_3_4_104	MW-10	Appendix IV	Beryllium	mg/L	20	10	50%	2022-11-29 to 2026-08-10	0.000052	Nonparametric LCL around the Median
20_3_4_106	MW-10	Appendix IV	Cadmium	mg/L	20	20	100%	2022-11-29 to 2026-08-10	0.000075	Nonparametric LCL around the Median
20_3_4_109	MW-10	Appendix IV	Chromium, Total	mg/L	20	0	0%	2022-11-29 to 2026-08-10	0.0034	Normal LCL
20_3_4_110	MW-10	Appendix IV	Cobalt	mg/L	20	1	5%	2022-11-29 to 2026-08-10	0.00037	Gamma MLE Normal Approx. LCL
20_3_4_113	MW-10	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	2022-11-29 to 2026-08-10	4.8	Normal LCL
20_3_4_115	MW-10	Appendix IV	Lead	mg/L	20	17	85%	2022-11-29 to 2026-08-10	0.00010	Nonparametric LCL around the Median
20_3_4_116	MW-10	Appendix IV	Lithium	mg/L	20	0	0%	2022-11-29 to 2026-08-10	0.86	Lognormal H-LCL
20_3_4_117	MW-10	Appendix IV	Mercury	ng/L	20	17	85%	2022-11-29 to 2026-08-10	0.37	Nonparametric LCL around the Median
20_3_4_118	MW-10	Appendix IV	Molybdenum	mg/L	20	0	0%	2022-11-29 to 2026-08-10	0.0021	Normal LCL
20_3_4_121	MW-10	Appendix IV	Radium 226 and 228	pCi/L	20	15	75%	2022-11-29 to 2026-08-10	0.70	Nonparametric LCL around the Median
20_3_4_122	MW-10	Appendix IV	Selenium	mg/L	20	1	5%	2022-11-29 to 2026-08-10	0.00031	Gamma MLE Normal Approx. LCL
20_3_4_125	MW-10	Appendix IV	Thallium	mg/L	20	20	100%	2022-11-29 to 2026-08-10	0.000075	Nonparametric LCL around the Median
20_3_5_111	MW-10	Part 115	Copper	mg/L	20	16	80%	2022-11-29 to 2026-08-10	0.00020	Nonparametric LCL around the Median
20_3_5_114	MW-10	Part 115	Iron	mg/L	20	0	0%	2022-11-29 to 2026-08-10	4.1	Normal LCL
20_3_5_119	MW-10	Part 115	Nickel	mg/L	20	7	35%	2022-11-29 to 2026-08-10	0.00073	Lognormal MLE Likelihood Profile LCL
20_3_5_123	MW-10	Part 115	Silver	mg/L	20	20	100%	2022-11-29 to 2026-08-10	0.000050	Nonparametric LCL around the Median

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	LCL	Method
20_3_5_128	MW-10	Part 115	Vanadium	mg/L	20	12	60%	2022-11-29 to 2026-08-10	0.00062	Nonparametric LCL around the Median
20_3_5_129	MW-10	Part 115	Zinc	mg/L	20	7	35%	2022-11-29 to 2026-08-10	0.0032	Gamma MLE Normal Approx. LCL
21_2_3_105	MW-11	Appendix III	Boron	mg/L	20	0	0%	2022-11-29 to 2026-08-12	5.3	Normal LCL
21_2_3_107	MW-11	Appendix III	Calcium	mg/L	20	0	0%	2022-11-29 to 2026-08-12	220	Normal LCL
21_2_3_108	MW-11	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	2022-11-29 to 2026-08-12	62	Normal LCL
21_2_3_112	MW-11	Appendix III	Fluoride	mg/L	20	0	0%	2022-11-29 to 2026-08-12	0.58	Normal LCL
21_2_3_120	MW-11	Appendix III	pH (field)	su	20	0	0%	2022-11-29 to 2026-08-12	7.3	Normal LCL
21_2_3_124	MW-11	Appendix III	Sulfate (as SO4)	mg/L	20	7	35%	2022-11-29 to 2026-08-12	8.3	Gamma MLE Normal Approx. LCL
21_2_3_126	MW-11	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	2022-11-29 to 2026-08-12	930	Normal LCL
21_2_4_101	MW-11	Appendix IV	Antimony	mg/L	20	15	75%	2022-11-29 to 2026-08-12	0.00010	Nonparametric LCL around the Median
21_2_4_102	MW-11	Appendix IV	Arsenic	mg/L	20	0	0%	2022-11-29 to 2026-08-12	0.0016	Adjusted Gamma LCL
21_2_4_103	MW-11	Appendix IV	Barium	mg/L	20	0	0%	2022-11-29 to 2026-08-12	0.61	Normal LCL
21_2_4_104	MW-11	Appendix IV	Beryllium	mg/L	20	14	70%	2022-11-29 to 2026-08-12	0.000052	Nonparametric LCL around the Median
21_2_4_106	MW-11	Appendix IV	Cadmium	mg/L	20	17	85%	2022-11-29 to 2026-08-12	0.000075	Nonparametric LCL around the Median
21_2_4_109	MW-11	Appendix IV	Chromium, Total	mg/L	20	0	0%	2022-11-29 to 2026-08-12	0.00080	Nonparametric LCL around the Median
21_2_4_110	MW-11	Appendix IV	Cobalt	mg/L	20	0	0%	2022-11-29 to 2026-08-12	0.00051	Lognormal H-LCL
21_2_4_113	MW-11	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	2022-11-29 to 2026-08-12	0.58	Normal LCL
21_2_4_115	MW-11	Appendix IV	Lead	mg/L	20	3	15%	2022-11-29 to 2026-08-12	0.00041	Nonparametric LCL around the Median
21_2_4_116	MW-11	Appendix IV	Lithium	mg/L	20	0	0%	2022-11-29 to 2026-08-12	0.054	Normal LCL
21_2_4_117	MW-11	Appendix IV	Mercury	ng/L	20	13	65%	2022-11-29 to 2026-08-12	13	Nonparametric LCL around the Median
21_2_4_118	MW-11	Appendix IV	Molybdenum	mg/L	20	2	10%	2022-11-29 to 2026-08-12	0.0010	Normal MLE LCL
21_2_4_121	MW-11	Appendix IV	Radium 226 and 228	pCi/L	19	7	37%	2022-11-29 to 2026-08-12	0.59	Normal MLE LCL
21_2_4_122	MW-11	Appendix IV	Selenium	mg/L	20	3	15%	2022-11-29 to 2026-08-12	0.00020	Gamma MLE Normal Approx. LCL
21_2_4_125	MW-11	Appendix IV	Thallium	mg/L	20	19	95%	2022-11-29 to 2026-08-12	0.000075	Nonparametric LCL around the Median
21_2_5_111	MW-11	Part 115	Copper	mg/L	20	4	20%	2022-11-29 to 2026-08-12	0.00024	Nonparametric LCL around the Median
21_2_5_114	MW-11	Part 115	Iron	mg/L	20	0	0%	2022-11-29 to 2026-08-12	6.7	Normal LCL
21_2_5_119	MW-11	Part 115	Nickel	mg/L	20	0	0%	2022-11-29 to 2026-08-12	0.0012	Nonparametric LCL around the Median
21_2_5_123	MW-11	Part 115	Silver	mg/L	20	17	85%	2022-11-29 to 2026-08-12	0.000050	Nonparametric LCL around the Median
21_2_5_128	MW-11	Part 115	Vanadium	mg/L	20	13	65%	2022-11-29 to 2026-08-12	0.00062	Nonparametric LCL around the Median
21_2_5_129	MW-11	Part 115	Zinc	mg/L	20	4	20%	2022-11-29 to 2026-08-12	0.013	Gamma MLE Normal Approx. LCL
22_2_3_105	MW-12	Appendix III	Boron	mg/L	20	0	0%	2022-11-28 to 2026-08-12	0.27	Normal LCL
22_2_3_107	MW-12	Appendix III	Calcium	mg/L	20	0	0%	2022-11-28 to 2026-08-12	57	Normal LCL
22_2_3_108	MW-12	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	2022-11-28 to 2026-08-12	16	Normal LCL
22_2_3_112	MW-12	Appendix III	Fluoride	mg/L	20	0	0%	2022-11-28 to 2026-08-12	0.28	Lognormal H-LCL
22_2_3_120	MW-12	Appendix III	pH (field)	su	20	0	0%	2022-11-28 to 2026-08-12	7.5	Normal LCL
22_2_3_124	MW-12	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	2022-11-28 to 2026-08-12	73	Normal LCL
22_2_3_126	MW-12	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	2022-11-28 to 2026-08-12	240	Normal LCL
22_2_4_101	MW-12	Appendix IV	Antimony	mg/L	20	0	0%	2022-11-28 to 2026-08-12	0.00054	Normal LCL
22_2_4_102	MW-12	Appendix IV	Arsenic	mg/L	20	0	0%	2022-11-28 to 2026-08-12	0.0023	Adjusted Gamma LCL
22_2_4_103	MW-12	Appendix IV	Barium	mg/L	20	0	0%	2022-11-28 to 2026-08-12	0.041	Normal LCL
22_2_4_104	MW-12	Appendix IV	Beryllium	mg/L	20	19	95%	2022-11-28 to 2026-08-12	0.000052	Nonparametric LCL around the Median
22_2_4_106	MW-12	Appendix IV	Cadmium	mg/L	20	0	0%	2022-11-28 to 2026-08-12	0.0016	Adjusted Gamma LCL
22_2_4_109	MW-12	Appendix IV	Chromium, Total	mg/L	20	6	30%	2022-11-28 to 2026-08-12	0.00021	Normal MLE LCL
22_2_4_110	MW-12	Appendix IV	Cobalt	mg/L	20	5	25%	2022-11-28 to 2026-08-12	0.00026	Gamma MLE Normal Approx. LCL
22_2_4_113	MW-12	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	2022-11-28 to 2026-08-12	0.28	Lognormal H-LCL
22_2_4_115	MW-12	Appendix IV	Lead	mg/L	20	6	30%	2022-11-28 to 2026-08-12	0.00015	Normal MLE LCL
22_2_4_116	MW-12	Appendix IV	Lithium	mg/L	20	1	5%	2022-11-28 to 2026-08-12	0.0031	Normal MLE LCL
22_2_4_117	MW-12	Appendix IV	Mercury	ng/L	20	12	60%	2022-11-28 to 2026-08-12	5.1	Nonparametric LCL around the Median
22_2_4_118	MW-12	Appendix IV	Molybdenum	mg/L	20	0	0%	2022-11-28 to 2026-08-12	0.0066	Adjusted Gamma LCL
22_2_4_121	MW-12	Appendix IV	Radium 226 and 228	pCi/L	20	12	60%	2022-11-28 to 2026-08-12	0.53	Nonparametric LCL around the Median
22_2_4_122	MW-12	Appendix IV	Selenium	mg/L	20	0	0%	2022-11-28 to 2026-08-12	0.00082	Adjusted Gamma LCL
22_2_4_125	MW-12	Appendix IV	Thallium	mg/L	20	20	100%	2022-11-28 to 2026-08-12	0.000075	Nonparametric LCL around the Median
22_2_5_111	MW-12	Part 115	Copper	mg/L	20	0	0%	2022-11-28 to 2026-08-12	0.0012	Normal LCL
22_2_5_114	MW-12	Part 115	Iron	mg/L	20	6	30%	2022-11-28 to 2026-08-12	0.026	Nonparametric LCL around the Median
22_2_5_119	MW-12	Part 115	Nickel	mg/L	20	0	0%	2022-11-28 to 2026-08-12	0.0024	Adjusted Gamma LCL
22_2_5_123	MW-12	Part 115	Silver	mg/L	20	20	100%	2022-11-28 to 2026-08-12	0.000050	Nonparametric LCL around the Median
22_2_5_128	MW-12	Part 115	Vanadium	mg/L	20	6	30%	2022-11-28 to 2026-08-12	0.00058	Normal MLE LCL
22_2_5_129	MW-12	Part 115	Zinc	mg/L	20	0	0%	2022-11-28 to 2026-08-12	0.0089	Adjusted Gamma LCL
26_1_3_105	MW-16	Appendix III	Boron	mg/L	10	0	0%	2024-04-08 to 2026-08-11	0.28	Normal LCL
26_1_3_107	MW-16	Appendix III	Calcium	mg/L	10	0	0%	2024-04-08 to 2026-08-11	210	Normal LCL
26_1_3_108	MW-16	Appendix III	Chloride (as Cl)	mg/L	10	0	0%	2024-04-08 to 2026-08-11	18	Normal LCL
26_1_3_112	MW-16	Appendix III	Fluoride	mg/L	10	1	10%	2024-04-08 to 2026-08-11	0.13	Normal MLE LCL
26_1_3_120	MW-16	Appendix III	pH (field)	su	10	0	0%	2024-04-08 to 2026-08-11	6.9	Normal LCL
26_1_3_124	MW-16	Appendix III	Sulfate (as SO4)	mg/L	10	2	20%	2024-04-08 to 2026-08-11	10	Gamma MLE Normal Approx. LCL
26_1_3_126	MW-16	Appendix III	Total Dissolved Solids	mg/L	10	0	0%	2024-04-08 to 2026-08-11	730	Normal LCL
26_1_4_101	MW-16	Appendix IV	Antimony	mg/L	10	9	90%	2024-04-08 to 2026-08-11	0.00010	Nonparametric LCL around the Median
26_1_4_102	MW-16	Appendix IV	Arsenic	mg/L	10	0	0%	2024-04-08 to 2026-08-11	0.0051	Normal LCL
26_1_4_103	MW-16	Appendix IV	Barium	mg/L	10	0	0%	2024-04-08 to 2026-08-11	0.22	Normal LCL
26_1_4_104	MW-16	Appendix IV	Beryllium	mg/L	10	9	90%	2024-04-08 to 2026-08-11	0.000052	Nonparametric LCL around the Median
26_1_4_106	MW-16	Appendix IV	Cadmium	mg/L	10	10	100%	2024-04-08 to 2026-08-11	0.000075	Nonparametric LCL around the Median
26_1_4_109	MW-16	Appendix IV	Chromium, Total	mg/L	10	0	0%	2024-04-08 to 2026-08-11	0.00073	Normal LCL
26_1_4_110	MW-16	Appendix IV	Cobalt	mg/L	10	0	0%	2024-04-08 to 2026-08-11	0.00017	Nonparametric LCL around the Median
26_1_4_113	MW-16	Appendix IV	Fluoride (App IV)	mg/L	10	1	10%	2024-04-08 to 2026-08-11	0.13	Normal MLE LCL
26_1_4_115	MW-16	Appendix IV	Lead	mg/L	10	6	60%	2024-04-08 to 2026-08-11	0.00010	Nonparametric LCL around the Median
26_1_4_116	MW-16	Appendix IV	Lithium	mg/L	10	0	0%	2024-04-08 to 2026-08-11	0.019	Normal LCL
26_1_4_117	MW-16	Appendix IV	Mercury	ng/L	10	8	80%	2024-04-08 to 2026-08-11	0.16	Nonparametric LCL around the Median
26_1_4_118	MW-16	Appendix IV	Molybdenum	mg/L	10	9	90%	2024-04-08 to 2026-08-11	0.00025	Nonparametric LCL around the Median
26_1_4_121	MW-16	Appendix IV	Radium 226 and 228	pCi/L	10	4	40%	2024-04-08 to 2026-08-11	0.50	Normal MLE LCL
26_1_4_122	MW-16	Appendix IV	Selenium	mg/L	10	1	10%	2024-04-08 to 2026-08-11	0.00012	Normal MLE LCL
26_1_4_125	MW-16	Appendix IV	Thallium	mg/L	10	10	100%	2024-04-08 to 2026-08-11	0.000075	Nonparametric LCL around the Median
26_1_5_111	MW-16	Part 115	Copper	mg/L	10	5	50%	2024-04-08 to 2026-08-11	0.00020	Nonparametric LCL around the Median
26_1_5_114	MW-16	Part 115	Iron	mg/L	10	0	0%	2024-04-08 to 2026-08-11	5.5	Normal LCL
26_1_5_119	MW-16	Part 115	Nickel	mg/L	10	1	10%	2024-04-08 to 2026-08-11	0.0014	Gamma MLE Normal Approx. LCL
26_1_5_123	MW-16	Part 115	Silver	mg/L	10	10	100%	2024-04-08 to 2026-08-11	0.000050	Nonparametric LCL around the Median

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	LCL	Method
26_1_5_128	MW-16	Part 115	Vanadium	mg/L	10	3	30%	2024-04-08 to 2026-08-11	0.00049	Normal MLE LCL
26_1_5_129	MW-16	Part 115	Zinc	mg/L	10	2	20%	2024-04-08 to 2026-08-11	0.0036	Gamma MLE Normal Approx. LCL
27_1_3_105	MW-17	Appendix III	Boron	mg/L	10	0	0%	2024-04-08 to 2026-08-11	0.58	Normal LCL
27_1_3_107	MW-17	Appendix III	Calcium	mg/L	10	0	0%	2024-04-08 to 2026-08-11	120	Normal LCL
27_1_3_108	MW-17	Appendix III	Chloride (as Cl)	mg/L	10	0	0%	2024-04-08 to 2026-08-11	25	Normal LCL
27_1_3_112	MW-17	Appendix III	Fluoride	mg/L	10	0	0%	2024-04-08 to 2026-08-11	0.52	Normal LCL
27_1_3_120	MW-17	Appendix III	pH (field)	su	10	0	0%	2024-04-08 to 2026-08-11	7.5	Normal LCL
27_1_3_124	MW-17	Appendix III	Sulfate (as SO4)	mg/L	10	2	20%	2024-04-08 to 2026-08-11	2.4	Gamma MLE Normal Approx. LCL
27_1_3_126	MW-17	Appendix III	Total Dissolved Solids	mg/L	10	0	0%	2024-04-08 to 2026-08-11	470	Nonparametric LCL around the Median
27_1_4_101	MW-17	Appendix IV	Antimony	mg/L	10	8	80%	2024-04-08 to 2026-08-11	0.00010	Nonparametric LCL around the Median
27_1_4_102	MW-17	Appendix IV	Arsenic	mg/L	10	0	0%	2024-04-08 to 2026-08-11	0.0016	Normal LCL
27_1_4_103	MW-17	Appendix IV	Barium	mg/L	10	0	0%	2024-04-08 to 2026-08-11	0.54	Normal LCL
27_1_4_104	MW-17	Appendix IV	Beryllium	mg/L	10	9	90%	2024-04-08 to 2026-08-11	0.000052	Nonparametric LCL around the Median
27_1_4_106	MW-17	Appendix IV	Cadmium	mg/L	10	9	90%	2024-04-08 to 2026-08-11	0.000075	Nonparametric LCL around the Median
27_1_4_109	MW-17	Appendix IV	Chromium, Total	mg/L	10	0	0%	2024-04-08 to 2026-08-11	0.00066	Adjusted Gamma LCL
27_1_4_110	MW-17	Appendix IV	Cobalt	mg/L	10	0	0%	2024-04-08 to 2026-08-11	0.00035	Lognormal H-LCL
27_1_4_113	MW-17	Appendix IV	Fluoride (App IV)	mg/L	10	0	0%	2024-04-08 to 2026-08-11	0.52	Normal LCL
27_1_4_115	MW-17	Appendix IV	Lead	mg/L	10	1	10%	2024-04-08 to 2026-08-11	0.00022	Normal MLE LCL
27_1_4_116	MW-17	Appendix IV	Lithium	mg/L	10	0	0%	2024-04-08 to 2026-08-11	0.027	Normal LCL
27_1_4_117	MW-17	Appendix IV	Mercury	ng/L	10	7	70%	2024-04-08 to 2026-08-11	0.16	Nonparametric LCL around the Median
27_1_4_118	MW-17	Appendix IV	Molybdenum	mg/L	10	0	0%	2024-04-08 to 2026-08-11	0.00048	Nonparametric LCL around the Median
27_1_4_121	MW-17	Appendix IV	Radium 226 and 228	pCi/L	10	3	30%	2024-04-08 to 2026-08-11	0.58	Normal MLE LCL
27_1_4_122	MW-17	Appendix IV	Selenium	mg/L	10	0	0%	2024-04-08 to 2026-08-11	0.00013	Nonparametric LCL around the Median
27_1_4_125	MW-17	Appendix IV	Thallium	mg/L	10	10	100%	2024-04-08 to 2026-08-11	0.000075	Nonparametric LCL around the Median
27_1_5_111	MW-17	Part 115	Copper	mg/L	10	1	10%	2024-04-08 to 2026-08-11	0.00063	Gamma MLE Normal Approx. LCL
27_1_5_114	MW-17	Part 115	Iron	mg/L	10	0	0%	2024-04-08 to 2026-08-11	3.6	Normal LCL
27_1_5_119	MW-17	Part 115	Nickel	mg/L	10	0	0%	2024-04-08 to 2026-08-11	0.0012	Lognormal H-LCL
27_1_5_123	MW-17	Part 115	Silver	mg/L	10	10	100%	2024-04-08 to 2026-08-11	0.000050	Nonparametric LCL around the Median
27_1_5_128	MW-17	Part 115	Vanadium	mg/L	10	0	0%	2024-04-08 to 2026-08-11	0.00063	Normal LCL
27_1_5_129	MW-17	Part 115	Zinc	mg/L	10	0	0%	2024-04-08 to 2026-08-11	0.012	Adjusted Gamma LCL
28_1_3_105	MW-18	Appendix III	Boron	mg/L	20	0	0%	2022-11-30 to 2026-08-11	2.7	Normal LCL
28_1_3_107	MW-18	Appendix III	Calcium	mg/L	20	0	0%	2022-11-30 to 2026-08-11	290	Normal LCL
28_1_3_108	MW-18	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	2022-11-30 to 2026-08-11	21	Normal LCL
28_1_3_112	MW-18	Appendix III	Fluoride	mg/L	20	0	0%	2022-11-30 to 2026-08-11	3.6	Normal LCL
28_1_3_120	MW-18	Appendix III	pH (field)	su	20	0	0%	2022-11-30 to 2026-08-11	7.1	Normal LCL
28_1_3_124	MW-18	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	2022-11-30 to 2026-08-11	650	Normal LCL
28_1_3_126	MW-18	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	2022-11-30 to 2026-08-11	1200	Normal LCL
28_1_4_101	MW-18	Appendix IV	Antimony	mg/L	20	3	15%	2022-11-30 to 2026-08-11	0.00019	Lognormal MLE Likelihood Profile LCL
28_1_4_102	MW-18	Appendix IV	Arsenic	mg/L	20	0	0%	2022-11-30 to 2026-08-11	0.024	Normal LCL
28_1_4_103	MW-18	Appendix IV	Barium	mg/L	20	0	0%	2022-11-30 to 2026-08-11	0.020	Adjusted Gamma LCL
28_1_4_104	MW-18	Appendix IV	Beryllium	mg/L	20	16	80%	2022-11-30 to 2026-08-11	0.000052	Nonparametric LCL around the Median
28_1_4_106	MW-18	Appendix IV	Cadmium	mg/L	20	7	35%	2022-11-30 to 2026-08-11	0.00016	Gamma MLE Normal Approx. LCL
28_1_4_109	MW-18	Appendix IV	Chromium, Total	mg/L	20	16	80%	2022-11-30 to 2026-08-11	0.00020	Nonparametric LCL around the Median
28_1_4_110	MW-18	Appendix IV	Cobalt	mg/L	20	0	0%	2022-11-30 to 2026-08-11	0.0020	Adjusted Gamma LCL
28_1_4_113	MW-18	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	2022-11-30 to 2026-08-11	3.6	Normal LCL
28_1_4_115	MW-18	Appendix IV	Lead	mg/L	20	12	60%	2022-11-30 to 2026-08-11	0.00012	Nonparametric LCL around the Median
28_1_4_116	MW-18	Appendix IV	Lithium	mg/L	20	0	0%	2022-11-30 to 2026-08-11	0.033	Normal LCL
28_1_4_117	MW-18	Appendix IV	Mercury	ng/L	20	15	75%	2022-11-30 to 2026-08-11	2.1	Nonparametric LCL around the Median
28_1_4_118	MW-18	Appendix IV	Molybdenum	mg/L	20	0	0%	2022-11-30 to 2026-08-11	0.015	Normal LCL
28_1_4_121	MW-18	Appendix IV	Radium 226 and 228	pCi/L	20	10	50%	2022-11-30 to 2026-08-11	0.56	Nonparametric LCL around the Median
28_1_4_122	MW-18	Appendix IV	Selenium	mg/L	20	0	0%	2022-11-30 to 2026-08-11	0.00068	Adjusted Gamma LCL
28_1_4_125	MW-18	Appendix IV	Thallium	mg/L	20	18	90%	2022-11-30 to 2026-08-11	0.000075	Nonparametric LCL around the Median
28_1_5_111	MW-18	Part 115	Copper	mg/L	20	0	0%	2022-11-30 to 2026-08-11	0.00043	Nonparametric LCL around the Median
28_1_5_114	MW-18	Part 115	Iron	mg/L	20	0	0%	2022-11-30 to 2026-08-11	5.3	Normal LCL
28_1_5_119	MW-18	Part 115	Nickel	mg/L	20	0	0%	2022-11-30 to 2026-08-11	0.0057	Normal LCL
28_1_5_123	MW-18	Part 115	Silver	mg/L	20	20	100%	2022-11-30 to 2026-08-11	0.000050	Nonparametric LCL around the Median
28_1_5_128	MW-18	Part 115	Vanadium	mg/L	20	18	90%	2022-11-30 to 2026-08-11	0.00062	Nonparametric LCL around the Median
28_1_5_129	MW-18	Part 115	Zinc	mg/L	20	0	0%	2022-11-30 to 2026-08-11	0.054	Adjusted Gamma LCL
29_1_3_105	MW-19	Appendix III	Boron	mg/L	20	0	0%	2022-11-30 to 2026-08-12	2.0	Normal LCL
29_1_3_107	MW-19	Appendix III	Calcium	mg/L	20	0	0%	2022-11-30 to 2026-08-12	430	Normal LCL
29_1_3_108	MW-19	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	2022-11-30 to 2026-08-12	33	Normal LCL
29_1_3_112	MW-19	Appendix III	Fluoride	mg/L	20	0	0%	2022-11-30 to 2026-08-12	1.7	Normal LCL
29_1_3_120	MW-19	Appendix III	pH (field)	su	20	0	0%	2022-11-30 to 2026-08-12	6.7	Normal LCL
29_1_3_124	MW-19	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	2022-11-30 to 2026-08-12	890	Normal LCL
29_1_3_126	MW-19	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	2022-11-30 to 2026-08-12	1700	Normal LCL
29_1_4_101	MW-19	Appendix IV	Antimony	mg/L	20	14	70%	2022-11-30 to 2026-08-12	0.00010	Nonparametric LCL around the Median
29_1_4_102	MW-19	Appendix IV	Arsenic	mg/L	20	0	0%	2022-11-30 to 2026-08-12	0.0035	Normal LCL
29_1_4_103	MW-19	Appendix IV	Barium	mg/L	20	0	0%	2022-11-30 to 2026-08-12	0.036	Normal LCL
29_1_4_104	MW-19	Appendix IV	Beryllium	mg/L	20	3	15%	2022-11-30 to 2026-08-12	0.000072	Normal MLE LCL
29_1_4_106	MW-19	Appendix IV	Cadmium	mg/L	20	18	90%	2022-11-30 to 2026-08-12	0.000075	Nonparametric LCL around the Median
29_1_4_109	MW-19	Appendix IV	Chromium, Total	mg/L	20	6	30%	2022-11-30 to 2026-08-12	0.00022	Lognormal MLE Likelihood Profile LCL
29_1_4_110	MW-19	Appendix IV	Cobalt	mg/L	20	2	10%	2022-11-30 to 2026-08-12	0.00038	Normal MLE LCL
29_1_4_113	MW-19	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	2022-11-30 to 2026-08-12	1.7	Normal LCL
29_1_4_115	MW-19	Appendix IV	Lead	mg/L	20	20	100%	2022-11-30 to 2026-08-12	0.00010	Nonparametric LCL around the Median
29_1_4_116	MW-19	Appendix IV	Lithium	mg/L	20	0	0%	2022-11-30 to 2026-08-12	0.083	Normal LCL
29_1_4_117	MW-19	Appendix IV	Mercury	ng/L	20	18	90%	2022-11-30 to 2026-08-12	0.26	Nonparametric LCL around the Median
29_1_4_118	MW-19	Appendix IV	Molybdenum	mg/L	20	0	0%	2022-11-30 to 2026-08-12	0.010	Normal LCL
29_1_4_121	MW-19	Appendix IV	Radium 226 and 228	pCi/L	20	9	45%	2022-11-30 to 2026-08-12	0.47	Normal MLE LCL
29_1_4_122	MW-19	Appendix IV	Selenium	mg/L	20	11	55%	2022-11-30 to 2026-08-12	0.00010	Nonparametric LCL around the Median
29_1_4_125	MW-19	Appendix IV	Thallium	mg/L	20	19	95%	2022-11-30 to 2026-08-12	0.000075	Nonparametric LCL around the Median
29_1_5_111	MW-19	Part 115	Copper	mg/L	20	16	80%	2022-11-30 to 2026-08-12	0.00020	Nonparametric LCL around the Median
29_1_5_114	MW-19	Part 115	Iron	mg/L	20	0	0%	2022-11-30 to 2026-08-12	13	Normal LCL
29_1_5_119	MW-19	Part 115	Nickel	mg/L	20	1	5%	2022-11-30 to 2026-08-12	0.0026	Lognormal MLE Likelihood Profile LCL
29_1_5_123	MW-19	Part 115	Silver	mg/L	20	20	100%	2022-11-30 to 2026-08-12	0.000050	Nonparametric LCL around the Median

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	LCL	Method
29_1_5_128	MW-19	Part 115	Vanadium	mg/L	20	14	70%	2022-11-30 to 2026-08-12	0.00062	Nonparametric LCL around the Median
29_1_5_129	MW-19	Part 115	Zinc	mg/L	20	10	50%	2022-11-30 to 2026-08-12	0.0012	Nonparametric LCL around the Median
30_1_3_105	MW-20	Appendix III	Boron	mg/L	20	0	0%	2022-11-30 to 2026-08-11	0.93	Normal LCL
30_1_3_107	MW-20	Appendix III	Calcium	mg/L	20	0	0%	2022-11-30 to 2026-08-11	120	Normal LCL
30_1_3_108	MW-20	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	2022-11-30 to 2026-08-11	45	Normal LCL
30_1_3_112	MW-20	Appendix III	Fluoride	mg/L	20	0	0%	2022-11-30 to 2026-08-11	0.23	Adjusted Gamma LCL
30_1_3_120	MW-20	Appendix III	pH (field)	su	20	0	0%	2022-11-30 to 2026-08-11	7.3	Normal LCL
30_1_3_124	MW-20	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	2022-11-30 to 2026-08-11	44	Normal LCL
30_1_3_126	MW-20	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	2022-11-30 to 2026-08-11	590	Normal LCL
30_1_4_101	MW-20	Appendix IV	Antimony	mg/L	20	8	40%	2022-11-30 to 2026-08-11	0.000082	Lognormal MLE Likelihood Profile LCL
30_1_4_102	MW-20	Appendix IV	Arsenic	mg/L	20	0	0%	2022-11-30 to 2026-08-11	0.0013	Normal LCL
30_1_4_103	MW-20	Appendix IV	Barium	mg/L	20	0	0%	2022-11-30 to 2026-08-11	0.44	Adjusted Gamma LCL
30_1_4_104	MW-20	Appendix IV	Beryllium	mg/L	20	19	95%	2022-11-30 to 2026-08-11	0.000052	Nonparametric LCL around the Median
30_1_4_106	MW-20	Appendix IV	Cadmium	mg/L	20	19	95%	2022-11-30 to 2026-08-11	0.000075	Nonparametric LCL around the Median
30_1_4_109	MW-20	Appendix IV	Chromium, Total	mg/L	20	10	50%	2022-11-30 to 2026-08-11	0.00020	Nonparametric LCL around the Median
30_1_4_110	MW-20	Appendix IV	Cobalt	mg/L	20	0	0%	2022-11-30 to 2026-08-11	0.0011	Normal LCL
30_1_4_113	MW-20	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	2022-11-30 to 2026-08-11	0.23	Adjusted Gamma LCL
30_1_4_115	MW-20	Appendix IV	Lead	mg/L	20	0	0%	2022-11-30 to 2026-08-11	0.0019	Lognormal H-LCL
30_1_4_116	MW-20	Appendix IV	Lithium	mg/L	20	0	0%	2022-11-30 to 2026-08-11	0.050	Normal LCL
30_1_4_117	MW-20	Appendix IV	Mercury	ng/L	20	14	70%	2022-11-30 to 2026-08-11	11	Nonparametric LCL around the Median
30_1_4_118	MW-20	Appendix IV	Molybdenum	mg/L	20	0	0%	2022-11-30 to 2026-08-11	0.0039	Normal LCL
30_1_4_121	MW-20	Appendix IV	Radium 226 and 228	pCi/L	19	10	53%	2022-11-30 to 2026-08-11	0.54	Nonparametric LCL around the Median
30_1_4_122	MW-20	Appendix IV	Selenium	mg/L	20	12	60%	2022-11-30 to 2026-08-11	0.00010	Nonparametric LCL around the Median
30_1_4_125	MW-20	Appendix IV	Thallium	mg/L	20	19	95%	2022-11-30 to 2026-08-11	0.000075	Nonparametric LCL around the Median
30_1_5_111	MW-20	Part 115	Copper	mg/L	20	2	10%	2022-11-30 to 2026-08-11	0.00038	Lognormal MLE Likelihood Profile LCL
30_1_5_114	MW-20	Part 115	Iron	mg/L	20	0	0%	2022-11-30 to 2026-08-11	16	Normal LCL
30_1_5_119	MW-20	Part 115	Nickel	mg/L	20	0	0%	2022-11-30 to 2026-08-11	0.0077	Nonparametric LCL around the Median
30_1_5_123	MW-20	Part 115	Silver	mg/L	20	20	100%	2022-11-30 to 2026-08-11	0.000050	Nonparametric LCL around the Median
30_1_5_128	MW-20	Part 115	Vanadium	mg/L	20	20	100%	2022-11-30 to 2026-08-11	0.00062	Nonparametric LCL around the Median
30_1_5_129	MW-20	Part 115	Zinc	mg/L	20	0	0%	2022-11-30 to 2026-08-11	0.030	Adjusted Gamma LCL
38_1_3_105	MW-28	Appendix III	Boron	mg/L	10	0	0%	2024-04-07 to 2026-08-12	2.0	Normal LCL
38_1_3_107	MW-28	Appendix III	Calcium	mg/L	10	0	0%	2024-04-07 to 2026-08-12	150	Normal LCL
38_1_3_108	MW-28	Appendix III	Chloride (as Cl)	mg/L	10	0	0%	2024-04-07 to 2026-08-12	72	Normal LCL
38_1_3_112	MW-28	Appendix III	Fluoride	mg/L	10	0	0%	2024-04-07 to 2026-08-12	0.85	Normal LCL
38_1_3_120	MW-28	Appendix III	pH (field)	su	10	0	0%	2024-04-07 to 2026-08-12	6.8	Normal LCL
38_1_3_124	MW-28	Appendix III	Sulfate (as SO4)	mg/L	10	2	20%	2024-04-07 to 2026-08-12	2.8	Gamma MLE Normal Approx. LCL
38_1_3_126	MW-28	Appendix III	Total Dissolved Solids	mg/L	10	0	0%	2024-04-07 to 2026-08-12	660	Normal LCL
38_1_4_101	MW-28	Appendix IV	Antimony	mg/L	10	0	0%	2024-04-07 to 2026-08-12	0.00023	Normal LCL
38_1_4_102	MW-28	Appendix IV	Arsenic	mg/L	10	0	0%	2024-04-07 to 2026-08-12	0.0015	Adjusted Gamma LCL
38_1_4_103	MW-28	Appendix IV	Barium	mg/L	10	0	0%	2024-04-07 to 2026-08-12	0.43	Normal LCL
38_1_4_104	MW-28	Appendix IV	Beryllium	mg/L	10	10	100%	2024-04-07 to 2026-08-12	0.000052	Nonparametric LCL around the Median
38_1_4_106	MW-28	Appendix IV	Cadmium	mg/L	10	5	50%	2024-04-07 to 2026-08-12	0.000075	Nonparametric LCL around the Median
38_1_4_109	MW-28	Appendix IV	Chromium, Total	mg/L	10	0	0%	2024-04-07 to 2026-08-12	0.0073	Normal LCL
38_1_4_110	MW-28	Appendix IV	Cobalt	mg/L	10	0	0%	2024-04-07 to 2026-08-12	0.00094	Normal LCL
38_1_4_113	MW-28	Appendix IV	Fluoride (App IV)	mg/L	10	0	0%	2024-04-07 to 2026-08-12	0.85	Normal LCL
38_1_4_115	MW-28	Appendix IV	Lead	mg/L	10	0	0%	2024-04-07 to 2026-08-12	0.0032	Adjusted Gamma LCL
38_1_4_116	MW-28	Appendix IV	Lithium	mg/L	10	0	0%	2024-04-07 to 2026-08-12	0.050	Adjusted Gamma LCL
38_1_4_117	MW-28	Appendix IV	Mercury	ng/L	10	3	30%	2024-04-07 to 2026-08-12	8.5	Gamma MLE Normal Approx. LCL
38_1_4_118	MW-28	Appendix IV	Molybdenum	mg/L	10	0	0%	2024-04-07 to 2026-08-12	0.0019	Normal LCL
38_1_4_121	MW-28	Appendix IV	Radium 226 and 228	pCi/L	9	2	22%	2024-04-07 to 2026-08-12	0.75	Nonparametric LCL around the Median
38_1_4_122	MW-28	Appendix IV	Selenium	mg/L	10	0	0%	2024-04-07 to 2026-08-12	0.00026	Nonparametric LCL around the Median
38_1_4_125	MW-28	Appendix IV	Thallium	mg/L	10	10	100%	2024-04-07 to 2026-08-12	0.000075	Nonparametric LCL around the Median
38_1_5_111	MW-28	Part 115	Copper	mg/L	10	1	10%	2024-04-07 to 2026-08-12	0.00092	Gamma MLE Normal Approx. LCL
38_1_5_114	MW-28	Part 115	Iron	mg/L	10	0	0%	2024-04-07 to 2026-08-12	23	Normal LCL
38_1_5_119	MW-28	Part 115	Nickel	mg/L	10	0	0%	2024-04-07 to 2026-08-12	0.0024	Normal LCL
38_1_5_123	MW-28	Part 115	Silver	mg/L	10	10	100%	2024-04-07 to 2026-08-12	0.000050	Nonparametric LCL around the Median
38_1_5_128	MW-28	Part 115	Vanadium	mg/L	10	2	20%	2024-04-07 to 2026-08-12	0.00056	Normal MLE LCL
38_1_5_129	MW-28	Part 115	Zinc	mg/L	10	0	0%	2024-04-07 to 2026-08-12	0.039	Adjusted Gamma LCL
40_1_3_105	MW-30	Appendix III	Boron	mg/L	20	0	0%	2022-11-30 to 2026-08-11	1.7	Adjusted Gamma LCL
40_1_3_107	MW-30	Appendix III	Calcium	mg/L	20	0	0%	2022-11-30 to 2026-08-11	440	Nonparametric LCL around the Median
40_1_3_108	MW-30	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	2022-11-30 to 2026-08-11	110	Nonparametric LCL around the Median
40_1_3_112	MW-30	Appendix III	Fluoride	mg/L	20	0	0%	2022-11-30 to 2026-08-11	1.0	Nonparametric LCL around the Median
40_1_3_120	MW-30	Appendix III	pH (field)	su	20	0	0%	2022-11-30 to 2026-08-11	7.0	Normal LCL
40_1_3_124	MW-30	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	2022-11-30 to 2026-08-11	770	Normal LCL
40_1_3_126	MW-30	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	2022-11-30 to 2026-08-11	2200	Nonparametric LCL around the Median
40_1_4_101	MW-30	Appendix IV	Antimony	mg/L	20	16	80%	2022-11-30 to 2026-08-11	0.00010	Nonparametric LCL around the Median
40_1_4_102	MW-30	Appendix IV	Arsenic	mg/L	20	2	10%	2022-11-30 to 2026-08-11	0.00071	Gamma MLE Normal Approx. LCL
40_1_4_103	MW-30	Appendix IV	Barium	mg/L	20	0	0%	2022-11-30 to 2026-08-11	0.061	Normal LCL
40_1_4_104	MW-30	Appendix IV	Beryllium	mg/L	20	16	80%	2022-11-30 to 2026-08-11	0.000052	Nonparametric LCL around the Median
40_1_4_106	MW-30	Appendix IV	Cadmium	mg/L	20	19	95%	2022-11-30 to 2026-08-11	0.000075	Nonparametric LCL around the Median
40_1_4_109	MW-30	Appendix IV	Chromium, Total	mg/L	20	0	0%	2022-11-30 to 2026-08-11	0.0074	Normal LCL
40_1_4_110	MW-30	Appendix IV	Cobalt	mg/L	20	0	0%	2022-11-30 to 2026-08-11	0.00061	Nonparametric LCL around the Median
40_1_4_113	MW-30	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	2022-11-30 to 2026-08-11	1.0	Nonparametric LCL around the Median
40_1_4_115	MW-30	Appendix IV	Lead	mg/L	20	18	90%	2022-11-30 to 2026-08-11	0.00022	Nonparametric LCL around the Median
40_1_4_116	MW-30	Appendix IV	Lithium	mg/L	20	0	0%	2022-11-30 to 2026-08-11	0.12	Normal LCL
40_1_4_117	MW-30	Appendix IV	Mercury	ng/L	20	18	90%	2022-11-30 to 2026-08-11	0.23	Nonparametric LCL around the Median
40_1_4_118	MW-30	Appendix IV	Molybdenum	mg/L	20	3	15%	2022-11-30 to 2026-08-11	0.00082	Nonparametric LCL around the Median
40_1_4_121	MW-30	Appendix IV	Radium 226 and 228	pCi/L	20	11	55%	2022-11-30 to 2026-08-11	0.56	Nonparametric LCL around the Median
40_1_4_122	MW-30	Appendix IV	Selenium	mg/L	20	7	35%	2022-11-30 to 2026-08-11	0.00013	Nonparametric LCL around the Median
40_1_4_125	MW-30	Appendix IV	Thallium	mg/L	20	20	100%	2022-11-30 to 2026-08-11	0.000075	Nonparametric LCL around the Median
40_1_5_111	MW-30	Part 115	Copper	mg/L	20	14	70%	2022-11-30 to 2026-08-11	0.00020	Nonparametric LCL around the Median
40_1_5_114	MW-30	Part 115	Iron	mg/L	20	0	0%	2022-11-30 to 2026-08-11	2.8	Adjusted Gamma LCL
40_1_5_119	MW-30	Part 115	Nickel	mg/L	20	3	15%	2022-11-30 to 2026-08-11	0.0011	Nonparametric LCL around the Median
40_1_5_123	MW-30	Part 115	Silver	mg/L	20	19	95%	2022-11-30 to 2026-08-11	0.000050	Nonparametric LCL around the Median

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	LCL	Method
40_1_5_128	MW-30	Part 115	Vanadium	mg/L	20	16	80%	2022-11-30 to 2026-08-11	0.00062	Nonparametric LCL around the Median
40_1_5_129	MW-30	Part 115	Zinc	mg/L	20	10	50%	2022-11-30 to 2026-08-11	0.0012	Nonparametric LCL around the Median
41_1_3_105	MW-31	Appendix III	Boron	mg/L	20	0	0%	2022-12-01 to 2026-08-13	4.7	Normal LCL
41_1_3_107	MW-31	Appendix III	Calcium	mg/L	20	0	0%	2022-12-01 to 2026-08-13	160	Nonparametric LCL around the Median
41_1_3_108	MW-31	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	2022-12-01 to 2026-08-13	100	Nonparametric LCL around the Median
41_1_3_112	MW-31	Appendix III	Fluoride	mg/L	20	0	0%	2022-12-01 to 2026-08-13	4.1	Nonparametric LCL around the Median
41_1_3_120	MW-31	Appendix III	pH (field)	su	20	0	0%	2022-12-01 to 2026-08-13	7.7	Normal LCL
41_1_3_124	MW-31	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	2022-12-01 to 2026-08-13	140	Adjusted Gamma LCL
41_1_3_126	MW-31	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	2022-12-01 to 2026-08-13	770	Nonparametric LCL around the Median
41_1_4_101	MW-31	Appendix IV	Antimony	mg/L	20	7	35%	2022-12-01 to 2026-08-13	0.00016	Gamma MLE Normal Approx. LCL
41_1_4_102	MW-31	Appendix IV	Arsenic	mg/L	20	0	0%	2022-12-01 to 2026-08-13	0.0012	Nonparametric LCL around the Median
41_1_4_103	MW-31	Appendix IV	Barium	mg/L	20	0	0%	2022-12-01 to 2026-08-13	0.17	Normal LCL
41_1_4_104	MW-31	Appendix IV	Beryllium	mg/L	20	17	85%	2022-12-01 to 2026-08-13	0.000052	Nonparametric LCL around the Median
41_1_4_106	MW-31	Appendix IV	Cadmium	mg/L	20	19	95%	2022-12-01 to 2026-08-13	0.000075	Nonparametric LCL around the Median
41_1_4_109	MW-31	Appendix IV	Chromium, Total	mg/L	20	0	0%	2022-12-01 to 2026-08-13	0.0025	Adjusted Gamma LCL
41_1_4_110	MW-31	Appendix IV	Cobalt	mg/L	20	3	15%	2022-12-01 to 2026-08-13	0.00018	Lognormal MLE Likelihood Profile LCL
41_1_4_113	MW-31	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	2022-12-01 to 2026-08-13	4.1	Nonparametric LCL around the Median
41_1_4_115	MW-31	Appendix IV	Lead	mg/L	20	14	70%	2022-12-01 to 2026-08-13	0.00010	Nonparametric LCL around the Median
41_1_4_116	MW-31	Appendix IV	Lithium	mg/L	20	0	0%	2022-12-01 to 2026-08-13	0.049	Adjusted Gamma LCL
41_1_4_117	MW-31	Appendix IV	Mercury	ng/L	20	14	70%	2022-12-01 to 2026-08-13	2.7	Nonparametric LCL around the Median
41_1_4_118	MW-31	Appendix IV	Molybdenum	mg/L	20	0	0%	2022-12-01 to 2026-08-13	0.0011	Nonparametric LCL around the Median
41_1_4_121	MW-31	Appendix IV	Radium 226 and 228	pCi/L	20	8	40%	2022-12-01 to 2026-08-13	0.54	Gamma MLE Normal Approx. LCL
41_1_4_122	MW-31	Appendix IV	Selenium	mg/L	20	6	30%	2022-12-01 to 2026-08-13	0.00013	Nonparametric LCL around the Median
41_1_4_125	MW-31	Appendix IV	Thallium	mg/L	20	19	95%	2022-12-01 to 2026-08-13	0.000075	Nonparametric LCL around the Median
41_1_5_111	MW-31	Part 115	Copper	mg/L	20	10	50%	2022-12-01 to 2026-08-13	0.00020	Nonparametric LCL around the Median
41_1_5_114	MW-31	Part 115	Iron	mg/L	20	0	0%	2022-12-01 to 2026-08-13	0.75	Adjusted Gamma LCL
41_1_5_119	MW-31	Part 115	Nickel	mg/L	20	10	50%	2022-12-01 to 2026-08-13	0.00065	Nonparametric LCL around the Median
41_1_5_123	MW-31	Part 115	Silver	mg/L	20	20	100%	2022-12-01 to 2026-08-13	0.000050	Nonparametric LCL around the Median
41_1_5_128	MW-31	Part 115	Vanadium	mg/L	20	12	60%	2022-12-01 to 2026-08-13	0.00062	Nonparametric LCL around the Median
41_1_5_129	MW-31	Part 115	Zinc	mg/L	20	9	45%	2022-12-01 to 2026-08-13	0.0022	Gamma MLE Normal Approx. LCL
42_1_3_105	MW-32	Appendix III	Boron	mg/L	20	0	0%	2022-11-30 to 2026-08-12	3.4	Lognormal H-LCL
42_1_3_107	MW-32	Appendix III	Calcium	mg/L	20	0	0%	2022-11-30 to 2026-08-12	170	Normal LCL
42_1_3_108	MW-32	Appendix III	Chloride (as Cl)	mg/L	20	0	0%	2022-11-30 to 2026-08-12	42	Normal LCL
42_1_3_112	MW-32	Appendix III	Fluoride	mg/L	20	0	0%	2022-11-30 to 2026-08-12	1.4	Normal LCL
42_1_3_120	MW-32	Appendix III	pH (field)	su	20	0	0%	2022-11-30 to 2026-08-12	7.5	Normal LCL
42_1_3_124	MW-32	Appendix III	Sulfate (as SO4)	mg/L	20	0	0%	2022-11-30 to 2026-08-12	64	Adjusted Gamma LCL
42_1_3_126	MW-32	Appendix III	Total Dissolved Solids	mg/L	20	0	0%	2022-11-30 to 2026-08-12	660	Normal LCL
42_1_4_101	MW-32	Appendix IV	Antimony	mg/L	20	16	80%	2022-11-30 to 2026-08-12	0.00010	Nonparametric LCL around the Median
42_1_4_102	MW-32	Appendix IV	Arsenic	mg/L	20	0	0%	2022-11-30 to 2026-08-12	0.00045	Nonparametric LCL around the Median
42_1_4_103	MW-32	Appendix IV	Barium	mg/L	20	0	0%	2022-11-30 to 2026-08-12	0.47	Normal LCL
42_1_4_104	MW-32	Appendix IV	Beryllium	mg/L	20	19	95%	2022-11-30 to 2026-08-12	0.000052	Nonparametric LCL around the Median
42_1_4_106	MW-32	Appendix IV	Cadmium	mg/L	20	16	80%	2022-11-30 to 2026-08-12	0.000075	Nonparametric LCL around the Median
42_1_4_109	MW-32	Appendix IV	Chromium, Total	mg/L	20	0	0%	2022-11-30 to 2026-08-12	0.00035	Nonparametric LCL around the Median
42_1_4_110	MW-32	Appendix IV	Cobalt	mg/L	20	0	0%	2022-11-30 to 2026-08-12	0.00036	Nonparametric LCL around the Median
42_1_4_113	MW-32	Appendix IV	Fluoride (App IV)	mg/L	20	0	0%	2022-11-30 to 2026-08-12	1.4	Normal LCL
42_1_4_115	MW-32	Appendix IV	Lead	mg/L	20	15	75%	2022-11-30 to 2026-08-12	0.00010	Nonparametric LCL around the Median
42_1_4_116	MW-32	Appendix IV	Lithium	mg/L	20	0	0%	2022-11-30 to 2026-08-12	0.12	Normal LCL
42_1_4_117	MW-32	Appendix IV	Mercury	ng/L	20	15	75%	2022-11-30 to 2026-08-12	1.2	Nonparametric LCL around the Median
42_1_4_118	MW-32	Appendix IV	Molybdenum	mg/L	20	0	0%	2022-11-30 to 2026-08-12	0.0031	Normal LCL
42_1_4_121	MW-32	Appendix IV	Radium 226 and 228	pCi/L	20	9	45%	2022-11-30 to 2026-08-12	0.47	Normal MLE LCL
42_1_4_122	MW-32	Appendix IV	Selenium	mg/L	20	16	80%	2022-11-30 to 2026-08-12	0.00010	Nonparametric LCL around the Median
42_1_4_125	MW-32	Appendix IV	Thallium	mg/L	20	20	100%	2022-11-30 to 2026-08-12	0.000075	Nonparametric LCL around the Median
42_1_5_111	MW-32	Part 115	Copper	mg/L	20	12	60%	2022-11-30 to 2026-08-12	0.00020	Nonparametric LCL around the Median
42_1_5_114	MW-32	Part 115	Iron	mg/L	20	0	0%	2022-11-30 to 2026-08-12	15	Normal LCL
42_1_5_119	MW-32	Part 115	Nickel	mg/L	20	0	0%	2022-11-30 to 2026-08-12	0.00088	Nonparametric LCL around the Median
42_1_5_123	MW-32	Part 115	Silver	mg/L	20	20	100%	2022-11-30 to 2026-08-12	0.000050	Nonparametric LCL around the Median
42_1_5_128	MW-32	Part 115	Vanadium	mg/L	20	20	100%	2022-11-30 to 2026-08-12	0.00062	Nonparametric LCL around the Median
42_1_5_129	MW-32	Part 115	Zinc	mg/L	20	0	0%	2022-11-30 to 2026-08-12	0.0026	Nonparametric LCL around the Median
46_1_3_105	MW-36	Appendix III	Boron	mg/L	10	0	0%	2024-04-08 to 2026-08-11	0.34	Normal LCL
46_1_3_107	MW-36	Appendix III	Calcium	mg/L	10	0	0%	2024-04-08 to 2026-08-11	64	Normal LCL
46_1_3_108	MW-36	Appendix III	Chloride (as Cl)	mg/L	10	0	0%	2024-04-08 to 2026-08-11	25	Normal LCL
46_1_3_112	MW-36	Appendix III	Fluoride	mg/L	10	0	0%	2024-04-08 to 2026-08-11	0.60	Normal LCL
46_1_3_120	MW-36	Appendix III	pH (field)	su	10	0	0%	2024-04-08 to 2026-08-11	8.6	Normal LCL
46_1_3_124	MW-36	Appendix III	Sulfate (as SO4)	mg/L	10	0	0%	2024-04-08 to 2026-08-11	8.7	Normal LCL
46_1_3_126	MW-36	Appendix III	Total Dissolved Solids	mg/L	10	0	0%	2024-04-08 to 2026-08-11	400	Normal LCL
46_1_4_101	MW-36	Appendix IV	Antimony	mg/L	10	0	0%	2024-04-08 to 2026-08-11	0.00091	Lognormal H-LCL
46_1_4_102	MW-36	Appendix IV	Arsenic	mg/L	10	0	0%	2024-04-08 to 2026-08-11	0.0092	Nonparametric LCL around the Median
46_1_4_103	MW-36	Appendix IV	Barium	mg/L	10	0	0%	2024-04-08 to 2026-08-11	0.17	Normal LCL
46_1_4_104	MW-36	Appendix IV	Beryllium	mg/L	10	9	90%	2024-04-08 to 2026-08-11	0.000052	Nonparametric LCL around the Median
46_1_4_106	MW-36	Appendix IV	Cadmium	mg/L	10	2	20%	2024-04-08 to 2026-08-11	0.000050	Normal MLE LCL
46_1_4_109	MW-36	Appendix IV	Chromium, Total	mg/L	10	0	0%	2024-04-08 to 2026-08-11	0.0011	Normal LCL
46_1_4_110	MW-36	Appendix IV	Cobalt	mg/L	10	0	0%	2024-04-08 to 2026-08-11	0.00017	Normal LCL
46_1_4_113	MW-36	Appendix IV	Fluoride (App IV)	mg/L	10	0	0%	2024-04-08 to 2026-08-11	0.60	Normal LCL
46_1_4_115	MW-36	Appendix IV	Lead	mg/L	10	0	0%	2024-04-08 to 2026-08-11	0.0084	Normal LCL
46_1_4_116	MW-36	Appendix IV	Lithium	mg/L	10	0	0%	2024-04-08 to 2026-08-11	0.0077	Normal LCL
46_1_4_117	MW-36	Appendix IV	Mercury	ng/L	10	4	40%	2024-04-08 to 2026-08-11	5.0	Normal MLE LCL
46_1_4_118	MW-36	Appendix IV	Molybdenum	mg/L	10	0	0%	2024-04-08 to 2026-08-11	0.021	Normal LCL
46_1_4_121	MW-36	Appendix IV	Radium 226 and 228	pCi/L	9	7	78%	2024-04-08 to 2026-08-11	0.85	Nonparametric LCL around the Median
46_1_4_122	MW-36	Appendix IV	Selenium	mg/L	10	0	0%	2024-04-08 to 2026-08-11	0.00050	Normal LCL
46_1_4_125	MW-36	Appendix IV	Thallium	mg/L	10	10	100%	2024-04-08 to 2026-08-11	0.000075	Nonparametric LCL around the Median
46_1_5_111	MW-36	Part 115	Copper	mg/L	10	0	0%	2024-04-08 to 2026-08-11	0.0031	Normal LCL
46_1_5_114	MW-36	Part 115	Iron	mg/L	10	0	0%	2024-04-08 to 2026-08-11	0.44	Normal LCL
46_1_5_119	MW-36	Part 115	Nickel	mg/L	10	0	0%	2024-04-08 to 2026-08-11	0.0044	Normal LCL
46_1_5_123	MW-36	Part 115	Silver	mg/L	10	1	10%	2024-04-08 to 2026-08-11	0.000083	Gamma MLE Normal Approx. LCL

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	LCL	Method
46_1_5_128	MW-36	Part 115	Vanadium	mg/L	10	0	0%	2024-04-08 to 2026-08-11	0.0028	Normal LCL
46_1_5_129	MW-36	Part 115	Zinc	mg/L	10	0	0%	2024-04-08 to 2026-08-11	0.0081	Normal LCL
47_1_3_105	MW-37	Appendix III	Boron	mg/L	10	0	0%	2024-04-08 to 2026-08-11	2.7	Normal LCL
47_1_3_107	MW-37	Appendix III	Calcium	mg/L	10	0	0%	2024-04-08 to 2026-08-11	130	Normal LCL
47_1_3_108	MW-37	Appendix III	Chloride (as Cl)	mg/L	10	0	0%	2024-04-08 to 2026-08-11	11	Normal LCL
47_1_3_112	MW-37	Appendix III	Fluoride	mg/L	10	0	0%	2024-04-08 to 2026-08-11	0.46	Normal LCL
47_1_3_120	MW-37	Appendix III	pH (field)	su	10	0	0%	2024-04-08 to 2026-08-11	7.2	Normal LCL
47_1_3_124	MW-37	Appendix III	Sulfate (as SO4)	mg/L	10	0	0%	2024-04-08 to 2026-08-11	170	Normal LCL
47_1_3_126	MW-37	Appendix III	Total Dissolved Solids	mg/L	10	0	0%	2024-04-08 to 2026-08-11	650	Normal LCL
47_1_4_101	MW-37	Appendix IV	Antimony	mg/L	10	1	10%	2024-04-08 to 2026-08-11	0.00012	Normal MLE LCL
47_1_4_102	MW-37	Appendix IV	Arsenic	mg/L	10	0	0%	2024-04-08 to 2026-08-11	0.00054	Normal LCL
47_1_4_103	MW-37	Appendix IV	Barium	mg/L	10	0	0%	2024-04-08 to 2026-08-11	0.049	Normal LCL
47_1_4_104	MW-37	Appendix IV	Beryllium	mg/L	10	9	90%	2024-04-08 to 2026-08-11	0.000052	Nonparametric LCL around the Median
47_1_4_106	MW-37	Appendix IV	Cadmium	mg/L	10	5	50%	2024-04-08 to 2026-08-11	0.000075	Nonparametric LCL around the Median
47_1_4_109	MW-37	Appendix IV	Chromium, Total	mg/L	10	0	0%	2024-04-08 to 2026-08-11	0.00036	Lognormal H-LCL
47_1_4_110	MW-37	Appendix IV	Cobalt	mg/L	10	0	0%	2024-04-08 to 2026-08-11	0.00039	Normal LCL
47_1_4_113	MW-37	Appendix IV	Fluoride (App IV)	mg/L	10	0	0%	2024-04-08 to 2026-08-11	0.46	Normal LCL
47_1_4_115	MW-37	Appendix IV	Lead	mg/L	10	2	20%	2024-04-08 to 2026-08-11	0.00015	Gamma MLE Normal Approx. LCL
47_1_4_116	MW-37	Appendix IV	Lithium	mg/L	10	0	0%	2024-04-08 to 2026-08-11	0.013	Normal LCL
47_1_4_117	MW-37	Appendix IV	Mercury	ng/L	10	4	40%	2024-04-08 to 2026-08-11	1.2	Normal MLE LCL
47_1_4_118	MW-37	Appendix IV	Molybdenum	mg/L	10	0	0%	2024-04-08 to 2026-08-11	0.0083	Normal LCL
47_1_4_121	MW-37	Appendix IV	Radium 226 and 228	pCi/L	10	5	50%	2024-04-08 to 2026-08-11	0.55	Nonparametric LCL around the Median
47_1_4_122	MW-37	Appendix IV	Selenium	mg/L	10	0	0%	2024-04-08 to 2026-08-11	0.0014	Adjusted Gamma LCL
47_1_4_125	MW-37	Appendix IV	Thallium	mg/L	10	9	90%	2024-04-08 to 2026-08-11	0.000075	Nonparametric LCL around the Median
47_1_5_111	MW-37	Part 115	Copper	mg/L	10	0	0%	2024-04-08 to 2026-08-11	0.0092	Adjusted Gamma LCL
47_1_5_114	MW-37	Part 115	Iron	mg/L	10	1	10%	2024-04-08 to 2026-08-11	0.21	Gamma MLE Normal Approx. LCL
47_1_5_119	MW-37	Part 115	Nickel	mg/L	10	0	0%	2024-04-08 to 2026-08-11	0.0027	Normal LCL
47_1_5_123	MW-37	Part 115	Silver	mg/L	10	9	90%	2024-04-08 to 2026-08-11	0.000050	Nonparametric LCL around the Median
47_1_5_128	MW-37	Part 115	Vanadium	mg/L	10	5	50%	2024-04-08 to 2026-08-11	0.00030	Nonparametric LCL around the Median
47_1_5_129	MW-37	Part 115	Zinc	mg/L	10	0	0%	2024-04-08 to 2026-08-11	0.014	Normal LCL
48_2_3_105	MW-38	Appendix III	Boron	mg/L	10	0	0%	2024-04-08 to 2026-08-11	0.84	Adjusted Gamma LCL
48_2_3_107	MW-38	Appendix III	Calcium	mg/L	10	0	0%	2024-04-08 to 2026-08-11	72	Nonparametric LCL around the Median
48_2_3_108	MW-38	Appendix III	Chloride (as Cl)	mg/L	10	0	0%	2024-04-08 to 2026-08-11	23	Normal LCL
48_2_3_112	MW-38	Appendix III	Fluoride	mg/L	10	0	0%	2024-04-08 to 2026-08-11	0.73	Normal LCL
48_2_3_120	MW-38	Appendix III	pH (field)	su	10	0	0%	2024-04-08 to 2026-08-11	9.0	Normal LCL
48_2_3_124	MW-38	Appendix III	Sulfate (as SO4)	mg/L	10	0	0%	2024-04-08 to 2026-08-11	99	Normal LCL
48_2_3_126	MW-38	Appendix III	Total Dissolved Solids	mg/L	10	0	0%	2024-04-08 to 2026-08-11	480	Normal LCL
48_2_4_101	MW-38	Appendix IV	Antimony	mg/L	10	2	20%	2024-04-08 to 2026-08-11	0.00038	Normal MLE LCL
48_2_4_102	MW-38	Appendix IV	Arsenic	mg/L	10	0	0%	2024-04-08 to 2026-08-11	0.0029	Normal LCL
48_2_4_103	MW-38	Appendix IV	Barium	mg/L	10	0	0%	2024-04-08 to 2026-08-11	0.088	Adjusted Gamma LCL
48_2_4_104	MW-38	Appendix IV	Beryllium	mg/L	10	7	70%	2024-04-08 to 2026-08-11	0.000052	Nonparametric LCL around the Median
48_2_4_106	MW-38	Appendix IV	Cadmium	mg/L	10	4	40%	2024-04-08 to 2026-08-11	0.000075*	Nonparametric LCL around the Median
48_2_4_109	MW-38	Appendix IV	Chromium, Total	mg/L	10	1	10%	2024-04-08 to 2026-08-11	0.0041	Normal MLE LCL
48_2_4_110	MW-38	Appendix IV	Cobalt	mg/L	10	0	0%	2024-04-08 to 2026-08-11	0.00051	Lognormal H-LCL
48_2_4_113	MW-38	Appendix IV	Fluoride (App IV)	mg/L	10	0	0%	2024-04-08 to 2026-08-11	0.73	Normal LCL
48_2_4_115	MW-38	Appendix IV	Lead	mg/L	10	1	10%	2024-04-08 to 2026-08-11	0.0092	Gamma MLE Normal Approx. LCL
48_2_4_116	MW-38	Appendix IV	Lithium	mg/L	10	0	0%	2024-04-08 to 2026-08-11	0.083	Normal LCL
48_2_4_117	MW-38	Appendix IV	Mercury	ng/L	10	4	40%	2024-04-08 to 2026-08-11	16	Normal MLE LCL
48_2_4_118	MW-38	Appendix IV	Molybdenum	mg/L	10	0	0%	2024-04-08 to 2026-08-11	0.0083	Normal LCL
48_2_4_121	MW-38	Appendix IV	Radium 226 and 228	pCi/L	9	5	56%	2024-04-08 to 2026-08-11	0.75	Nonparametric LCL around the Median
48_2_4_122	MW-38	Appendix IV	Selenium	mg/L	10	0	0%	2024-04-08 to 2026-08-11	0.00058	Normal LCL
48_2_4_125	MW-38	Appendix IV	Thallium	mg/L	10	10	100%	2024-04-08 to 2026-08-11	0.000075	Nonparametric LCL around the Median
48_2_5_111	MW-38	Part 115	Copper	mg/L	10	1	10%	2024-04-08 to 2026-08-11	0.0041	Gamma MLE Normal Approx. LCL
48_2_5_114	MW-38	Part 115	Iron	mg/L	10	0	0%	2024-04-08 to 2026-08-11	0.44	Adjusted Gamma LCL
48_2_5_119	MW-38	Part 115	Nickel	mg/L	10	0	0%	2024-04-08 to 2026-08-11	0.0048	Adjusted Gamma LCL
48_2_5_123	MW-38	Part 115	Silver	mg/L	10	6	60%	2024-04-08 to 2026-08-11	0.000050	Nonparametric LCL around the Median
48_2_5_128	MW-38	Part 115	Vanadium	mg/L	10	2	20%	2024-04-08 to 2026-08-11	0.0036	Normal MLE LCL
48_2_5_129	MW-38	Part 115	Zinc	mg/L	10	1	10%	2024-04-08 to 2026-08-11	0.0069	Normal MLE LCL

* While one or more parametric distributions fit the data, nonparametric methods were used due to negative parametric LCL.