Pinewood Trustee, Inc. as Trustee of the
Pinewood Site Custodial Trust
78 Wentworth Street
Charleston, SC 29401
Phone: (843) 579-7000

October 30, 2017

Ms. Cynde Devlin, Hydrogeologist
Division of Hydrogeology
Bureau of Land and Waste Management
South Carolina Department of Health and Environmental Control
2600 Bull Street
Columbia, SC 29201

RE: Pinewood Site
2017 Third Quarter Groundwater Detection Monitoring Program Report
SCD 070 375 985

Dear Ms. Devlin:

Please find enclosed two (2) copies of the Third Quarter 2017 Groundwater Detection Monitoring Program Report as required by Section VIII.A.12.c. of the Part B Permit. Smith + Gardner, Inc. prepared the report on behalf of the Pinewood Site Custodial Trust. The report is being submitted in a reduced paper form and complete electronic form.

Please contact us at (843) 579-7000 if you have any questions or comments.

Sincerely,

Pinewood Site Custodial Trust

By Pinewood Trustee, Inc.
A South Carolina Non Profit Corporation,
As Trustee of the Pinewood Site Custodial Trust under
Trust Instrument Dated December 24, 2003:

By: Robert A. Kerr, Jr.
Its: President

Enclosures

cc: (provided by Smith Gardner)
Mr. Doug McCurry, US EPA
Mr. Keith Lane, SC DHEC
Jane H. Hood, PE, Santee Cooper
Mr. Brian Burgess, STC (Pinewood Site File)

2017 Third Quarter Detection Monitoring Program Report

Pinewood Site
Pinewood, South Carolina
SCD 070 375 985

Prepared for:

Pinewood Trustee, Inc.
c/o Moore & Van Allen, PLLC
Pinewood Site Custodial Trust
78 Wentworth Street
Charleston, South Carolina 29401

Pinewood Site
Custodial Trust

October 2017

Prepared by:

SMITH+GARDNER

14 N. Boylan Avenue, Raleigh NC 27603 | 919.828.0577

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2017 Third Quarter Detection Monitoring Program Report

Pinewood Site
Pinewood, South Carolina
SCD 070 375 985

Prepared For:

Pinewood Trustee, Inc.
Pinewood Site Custodial Trust

S+G Project No. Pinewood-12-4

I certify that environmental monitoring documents prepared for the Pinewood Landfill Site under the Agreement between Kestrel Horizons, LLC as Trustee of the Pinewood Site Custodial Trust (Owner) and Smith Gardner, Inc. (Engineer) dated January 1, 2014 as amended, including Amendment A-12 substituting Pinewood Interim Administrator, Inc. as Interim Administrator of the Pinewood Site Custodial Trust (Owner), have been prepared and reviewed in accordance with accepted quality control. Pinewood Trustee, Inc. is the successor to Pinewood Interim Administrator, Inc., and is the current Trustee of the Pinewood Site Custodial Trust. My South Carolina licensed professional geologist seal and signature on a document constitutes a certification that the document was prepared by me or under my direct supervision, and that I have reviewed the document in sufficient depth to fully coordinate and assume responsibility for materials prepared by another registrant.

SMITH GARDNER, INC.

Bobby Wolf, P.G.
Project Geologist

C. Kevin Anderson, P.G.
Senior Geologist

October 2017

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List of Abbreviations and Acronyms

amsl	Above Mean Sea Level
°C	Degrees Celsius
DMN	Detection Monitoring Network
DMP	Detection Monitoring Program
DUMP-Stat	Downgradient Upgradient Monitoring Program Statistics
EPA	United States Environmental Protection Agency
ft	Feet
GEL	GEL Engineering, LLC. A member of the GEL GROUP, INC.
MCL	Maximum Contaminant Level
MDL	Method Detection Limit
mg/L	Milligrams per Liter
MSL	Mean Sea Level
NTU	Nephelometric Turbidity Units
OC	Opaline Claystone
PCE	Tetrachloroethylene
POC	Point of Compliance
PQL	Practical Quantitation Limit
PSCT	Pinewood Site Custodial Trust
PSDL	Primary Sawdust Landing
PSSB	Primary Stormwater Sedimentation Basin
RCRA	Resource Conservation and Recovery Act
S+G	Smith Gardner, Inc.
SAP	Sampling and Analysis Plan
SBD	Sand Blanket Drain
SCDHEC	South Carolina Department of Health and Environmental Control
Shealy	Shealy Environmental Services, Inc.
Site	Pinewood Site
SSDL	Secondary Sawdust Landing
SU	Standard Units
TDS	Total Dissolved Solids
TLS	Transitional Lang Syne
TOC	Top of Casing
UBC-A	Upper Black Creek – A Zone
UBC-B	Upper Black Creek – B Zone
umhos/cm	Micromhos per Centimeter
USGS	United States Geological Survey
VOCs	Volatile Organic Compounds
WT	Water Table

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Pinewood Site
Pinewood, South Carolina
SCD 070 375 985

2017 Third Quarter Detection Monitoring Program Report

Table of Contents

Table of Contents (continued)

TABLES

FIGURES

APPENDICES

1.0 INTRODUCTION

S+G was retained by the PSCT to conduct quarterly detection monitoring at the Site in accordance with the methods outlined in the approved DMP SAP[1]. This report discusses the detection monitoring event conducted during the third quarter of 2017, and includes an evaluation of the analytical data generated and potentiometric maps based on third-quarter 2017 groundwater elevation data.

The Pinewood Story[2] provides general information regarding the Site and an overview of its history. A Site location map, consisting of the relevant portion of the USGS topographic map, Lone Star, South Carolina Quadrangle (Provisional Edition 1988), is included as **Figure 1**. The layout of the Site, including the locations of Site structures, features, and monitoring wells, is illustrated on **Figure 2**.

[1] Ground Water Sampling and Analysis Plan, Interim Status Monitoring, Pinewood Secure Landfill (SCD 070375985). October 15, 2003

[2] http://www.scdhec.gov/environment/pinewood/index.asp

2.0 CONCLUSIONS

The conclusions presented below are supported by the findings (listed as bulleted items) derived from information presented later in this report or as otherwise referenced.

2.1 Monitoring System Evaluation

Conclusion #1: The TLS paleo-channel appears to influence groundwater flow directions within some, but not all, of the monitoring zones and may be the link to areas where large scale groundwater withdrawals are occurring.

- Groundwater elevation changes observed between the fourth quarter of 2016 and the third quarter of 2017 were the most pronounced in the areas around the TLS paleo-channel.
- The greatest groundwater elevation changes observed between the fourth quarter of 2016 and the third quarter of 2017 were noted in wells installed within the TLS and PSDL monitoring zones.

Conclusion #2: The monitoring zones within and above the OC do not appear to be hydraulically connected to the monitoring zones beneath the OC.

- Significant groundwater elevation changes were not observed within or above the OC, as they were throughout the year in monitoring zones beneath the OC.
- Hydrogeochemical analytical results obtained from samples collected from each monitored hydrogeologic zone also identify significantly different geochemical "signatures" for groundwater from within and above the OC, compared to groundwater from monitored zones beneath the OC. The results of this work are presented under separate covers[3,4].

2.2 Analytical Results

Conclusion #3: Laboratory analytical results for groundwater samples collected from available sampling locations do not indicate that the landfill has affected groundwater quality in the monitored units.

- Sample analysis and results interpretation indicate that groundwater quality is consistent with historically reported results.
- VOCs, the principal constituent suite observed in leachate collected from the primary sumps installed within the landfill sections, were not observed in the third-quarter 2017 DMP groundwater samples.

[3] *Baseline Water Quality Technical Memorandum*, AECOM, April 15, 2013.
[4] *Addendum to Baseline Water Quality Technical Memorandum*, AECOM, June 6, 2013.

- Inorganic constituents were not detected at concentrations approaching or exceeding their respective MCLs in the detection monitoring groundwater samples.

Conclusion #4: Barium continues to be detected in groundwater samples collected at locations across the Site at concentrations that occur naturally.

- Barium has been reported site-wide at consistent concentrations throughout historical records. Multiple detections of barium have been reported in background samples, generally within the same concentration range as samples collected from downgradient POC wells.

Conclusion #5: A statistically significant increase in arsenic concentrations at monitoring well UBC004 occurred during the third-quarter 2017 monitoring event. The elevated arsenic concentration at this well has not yet been confirmed.

The sample collected from monitoring well UBC004, screened in the UBC-A zone, exceeded the intra-well prediction limit for arsenic during the third-quarter2017 monitoring event. Therefore, confirmation sampling of this well will be completed during the fourth quarter of 2017 to determine if a statistical failure or an anomaly has occurred.

3.0 SITE HYDROGEOLOGY

3.1 Geology

The Site is located in the Coastal Plain physiographic province of South Carolina. The Coastal Plain consists of a wedge-shaped deposition of unconsolidated sediments that thickens to the southeast in the direction of the Atlantic Ocean and is characterized by generally flat topography and poorly drained soils.

Seven geologic zones have been identified within the "uppermost aquifer"[5] at the Site. These units are presented in descending order as follows:

Shallow Monitoring Zones

1. WT
2. OC

Deeper Monitoring Zones

3. TLS
4. SSDL
5. PSDL
6. UBC-A
7. UBC-B

A generalized stratigraphic column showing the units included within the uppermost aquifer is included as Figure 3, and a summary of the various characteristics of each zone is included below.

The WT zone consists of variegated clay, locally containing sand lenses and quartz pebbles. The WT is the most shallow hydrogeologic zone but is absent from the majority of the Site. The WT zone was removed from the three landfill sections and most of the PSSB during construction. The landfill sections and PSSB are constructed within the underlying OC. Additionally, two SBDs (SBD#1 and SBD#2), installed in the PSSB sidewalls, dewater the WT aquifer in the area to the southeast of the Section III landfill to prevent the off-site migration of groundwater affected by historical, non-landfill SWMUs. Portions of the WT zone are dewatered by a supplemental French drain system installed parallel to the Site perimeter and portions of Section I.

The OC underlies the WT zone. The top portion of the OC is weathered and fractured while the lower portion is more consolidated and massive. Groundwater occurs within the weathered upper portion of the OC, perched atop the more massive lower horizon and is likely in communication with groundwater from the overlying WT zone (Plio-Pleistocene sediments). Groundwater flow velocity in this weathered zone is likely to be

[5] As determined by SCDHEC

much greater than in the underlying massive OC due to the expected, relatively higher secondary porosity of the weathered zone. Previous investigations have determined that the OC has low permeability and does not yield sufficient groundwater for monitoring except where the unit is sufficiently fractured or where discontinuous sand lenses exist (predominantly on the eastern portion of the site). Groundwater present within the sand lenses is under water table conditions. Water quality data from wells completed in these sand lenses are included in this monitoring report. The lower portion of the OC is massive and dense, and it forms the base of the landfill units. Each landfill unit is underlain by at least 10 feet of OC.

The TLS underlies the OC and consists of a fine sand, silty sand, and sandy clay unit that ranges from 2 to 10 ft in thickness. The composition of the unit represents a transitional tidal creek environment of deposition.

A 10 to 20 foot thick TLS paleo-channel feature, filled with TLS and reworked SSDL sands, traverses the eastern portion of the Site and passes beneath the majority of the Section III landfill unit. The TLS paleo-channel feature is oriented in a generally north-northwest to south-southeast direction and turns slightly more to the southeast beyond the Section III landfill unit. The sand-filled TLS paleo-channel cuts through the units that normally underlie the TLS (the SSDL, PSDL, and UBC-A) and allows a direct hydraulic connection between these lower water-bearing units and the sands of the TLS.

The Sawdust Landing Formation is composed of the SSDL and the PSDL. The SSDL is located in the upper portion of the formation and consists of discontinuous, interbedded layers that range in composition from sand to sandy clay. The SSDL formation is generally separated from the overlying TLS by a silty clay layer. The PSDL is located in the lower portion of the formation and is composed of coarser-grained sediments, ranging in size from medium-grained sand to gravel. The PDSL is more continuous than the overlying SSDL.

The UBC contains numerous groundwater-bearing interbedded-to-massive sands, separated by thin layers of clay and silty clay. The UBC-A zone contains sand units A1 and A2. The UBC-B zone contains thicker, more massive beds of permeable sands and exhibits a much greater aquifer potential than the overlying units.

Groundwater quality in each of the zones below the OC is monitored annually, with the exception of the TLS, which is monitored on a quarterly basis. Additionally, the WT wells installed around the Section I landfill unit are monitored on a quarterly schedule.

3.2 Groundwater Flow

Third-quarter depth-to-groundwater measurements for Site wells were collected on July 14, 2017. Groundwater depths were recorded relative to previously surveyed datum points (TOC elevations at each of the wells) and were converted to elevations in ft

relative to MSL at each location by subtracting the depth to groundwater from the well's surveyed TOC elevation. A summary of the calculated groundwater elevations for the third-quarter 2017 gauging event is provided on **Table 1**. Fourth-quarter 2016 through third-quarter 2017 groundwater elevations are included on **Table 1** for comparative purposes.

In general, deeper wells positioned inside and adjacent to the TLS paleo-channel exhibit the greatest intra-well fluctuations in groundwater elevation as measured throughout the year. Shallow monitoring wells (WT) generally are not affected by the TLS paleo-channel since the channel is located below the OC. Detailed discussions of groundwater flow by hydrogeological unit are presented below.

3.2.1 Horizontal Gradient

Horizontal flow within an aquifer is determined by groundwater elevations that represent the potentiometric head in wells screened in that aquifer. Potentiometric maps for the third-quarter 2017 event are presented as **Figures 4** through **9**.

A northwest-southeast trending groundwater divide is present beneath landfill Sections I and II, with groundwater flowing southwest towards Lake Marion and northeast towards the TLS paleo-channel. Groundwater flow has been altered from its historical and regional direction in the PSDL and UBC zones due to pumping from off-site supply wells that are used to fill seasonal duck ponds. Long-term regional drought conditions have also likely contributed to the altered groundwater flow directions. According to the South Carolina State Climatology Office[6], Sumter County has been reported at various drought levels over the past ten years, including severe drought conditions observed in late 2007 and early 2008. As of August 11, 2017, Sumter County is under normal conditions but incipient drought conditions are present in the South Carolina counties to the west of Sumter County.

Water Table

Groundwater elevation data obtained from the WT during the third quarter of 2017 indicate that groundwater flow is generally from northeast to southwest. The PSSB (formerly referred to as the First Flush Basin) and the East Meadow low area (a topographically low area positioned southeast of the WT008 area and east-southeast of the PSSB) influence localized groundwater flow direction in the WT zone. Groundwater in this area ultimately migrates into the cone of depression created by the SBDs within the side slopes of the PSSB. In addition, these SBDs capture shallow groundwater in the areas between the PSSB and Section I to the south and between the PSSB and Section III to the north. To the

[6] http://www.dnr.sc.gov/climate/sco/Drought/drought_current_info.php, reviewed May 22, 2017.

west of the cone of depression, groundwater flows to the southwest and discharges into the Drainage Channel and Pond A. A more detailed discussion of flow is presented in the Third-Quarter 2017 Water Table Corrective Measures Implementation Report provided under separate cover.

Opaline Claystone

The OC zone consists primarily of a massive opaline claystone unit. Groundwater flow in this unit occurs primarily through secondary porosity features such as joints and fractures. Due to the discontinuous nature of the water producing sand lenses within the OC, water-level elevation contour maps are not prepared for the OC unit; therefore, groundwater flow information for this unit is not applicable.

Transitional Lang Syne

Groundwater elevation data obtained from the TLS during the third quarter of 2017 reflect the northwest-southeast trending groundwater divide present beneath landfill Sections I and II. Groundwater to the southwest of the divide flows to the southwest towards Lake Marion while groundwater to the northeast of the divide flows to the east/northeast toward the TLS paleo-channel. The following observations regarding the TLS monitoring zone were made during the third quarter of 2017:

- Groundwater elevations in the TLS wells recorded during the third quarter of 2017 ranged from 74.00 ft amsl (MW097T) to 109.42 ft amsl (MW096T).
- Groundwater elevation fluctuations observed between the fourth quarter of 2016 and third quarter of 2017 were typically greater in wells in and around the TLS paleo-channel.
- In general, third-quarter 2017 groundwater elevations in the TLS wells remained relatively stable or increased slightly in comparison with second-quarter 2017 groundwater elevations.

The third-quarter 2017 TLS potentiometric map is presented on **Figure 5**.

Secondary Sawdust Landing

Groundwater elevation data obtained from the SSDL during the third quarter of 2017 also reveal the groundwater divide near landfill Sections I and II, similar to that observed in the TLS zone. Groundwater to the southwest of the divide flows to the southwest towards Lake Marion while groundwater to the northeast of the divide flows to the east/northeast toward the TLS paleo-channel. The following observations regarding the SSDL monitoring zone were made during the third quarter of 2017:

- Groundwater elevations in the SSDL wells ranged from 74.81 ft amsl (MW140S) to 94.62 ft amsl (PSDL017A).
- Groundwater elevation fluctuations observed between the fourth quarter of 2016 and third quarter of 2017 were influenced by proximity to the paleo-channel.
- In general, groundwater elevations in SSDL wells remained relatively stable or increased slightly in comparison with second-quarter 2017 groundwater elevations.

The third-quarter 2017 SSDL potentiometric map is presented on **Figure 6**.

Primary Sawdust Landing

Groundwater elevation data obtained from the PSDL during the third quarter of 2017 illustrate that the groundwater flow direction beneath the Site is to the east-southeast, toward the TLS paleo-channel. This flow direction is a change from the historically prevalent westerly flow observed prior to the mid-2000's. Groundwater data from the PDSL do not reflect the groundwater divide located near landfill Sections I and II observed in the overlying TLS and SSDL zones. The following observations regarding the PSDL monitoring zone were made during the third quarter of 2017:

- Groundwater elevations in the PSDL wells ranged from 74.66 ft amsl (MW095P) to 81.01 ft amsl (SL005).
- Groundwater elevation fluctuations observed between the fourth quarter of 2016 and third quarter of 2017 were generally greater in wells closer in proximity to the paleo-channel.
- In general, groundwater elevations in the PSDL wells remained relatively stable or increased slightly in comparison with second-quarter 2017 groundwater elevations.

The second-quarter 2017 PSDL potentiometric map is presented on **Figure 7**.

Upper Black Creek (Zones A1 & A2)

Groundwater elevation data obtained from the UBC (A1 and A2) during the third quarter of 2017 illustrate that the groundwater beneath the majority of the Site continues to flow to the east-northeast, toward the TLS paleo-channel. This flow direction is a change from the historically prevalent westerly flow observed prior to the mid-2000's. The following observations regarding the UBC monitoring zone were made during the third quarter of 2017:

- Groundwater elevations varied in the UBC wells, ranging from 74.48 ft amsl (UBC028AR) to 81.09 ft amsl (PBC002).

- Groundwater elevation fluctuations observed between the fourth quarter of 2016 and third quarter of 2017 were generally greater in wells closer to the paleo-channel.
- Groundwater appears to flow in a radial pattern from a potentiometric high area noted near the central portion of Section II in the UBC-A1 Zone.
- In general, groundwater elevations in the UBC wells remained relatively stable or increased slightly in comparison with second-quarter 2017 groundwater elevations.

The third-quarter 2017 potentiometric maps for the UBC-A1 and UBC-A2 Zones are presented on **Figures 8** and **9**, respectively.

3.2.2 Vertical Gradient

Vertical gradient calculations were performed on eight well clusters distributed across the site including the following:

- MW056P, MW026B, MW026ATR, UBC018B
- MW091PR, MW090SR, MW089T, UBC026
- OC002, SL007, SL006, UBC004
- WT016, PSDL007, UBC005
- OC004, SL013, PSDL021A, PSDL021
- OC015, SL016, MW036SR, MW033
- MW103P, MW102S, MW101T, UBC031
- MW093PR, MW092SR, MW098TR, UBC027

The well cluster locations are depicted on **Figure 2**.

Calculations were performed with data from the third quarter of 2017. Vertical gradients were calculated using the following equation:

$$\frac{\text{(GWE Shallow Well – GWE Deep Well)}}{\text{(Shallow Screen Midpoint – Deep Screen Midpoint)}}$$

where: GWE = Groundwater Elevation

These calculations indicate that groundwater generally flows downward from upper monitoring zones toward lower monitoring zones at gradients that range from 0.0028 ft/ft to 1.2716 ft/ft.

Hydrographs depicting groundwater elevation changes in select wells from the various monitoring zones, vertical gradient calculations, and tables are included in **Appendix A**. The hydrographs generally indicate a long-term decreasing trend in groundwater levels for most wells.

4.0 MONITORING

4.1 Detection Monitoring Network

The detection monitoring network currently includes historically downgradient monitoring wells and background wells constructed to monitor the WT zone and the hydrogeologic zones beneath the OC. The locations and designations of the majority of these wells are based on historical groundwater flow patterns. During the first quarter of 2015, 24 POC monitoring wells were installed in the WT, TLS, PSDL, and UBC-A zones and added to the DMP for the Site. The installation of these new POC wells was recommended in AECOM's Detection Monitoring Program Technical Memorandum[7] and approved by the SCDHEC. Additionally, eight existing monitoring wells not historically used as POC wells were added to the DMP.

A summary of the well construction details and groundwater elevation data for the third-quarter 2017 sampling event are presented on **Table 2**. **Tables 3** and **4** present the detection monitoring network wells sampled during the third-quarter of 2017 and the DMP quarterly sampling schedule, respectively. The locations of the DMP sampling points are provided on **Figure 2.**

4.2 Sampling and Analysis Procedures

The third-quarter 2017 sampling event was conducted on July 17-21 and July 24-28. The third-quarter 2017 monitoring event included 49 downgradient TLS wells, 3 background UBC wells, and 31 downgradient UBC wells.

Monitoring well WT048 was installed during the first-quarter 2015 POC well installation event; however, due to dry conditions, the well could not be sampled until the fourth-quarter 2015 monitoring event. Since the fourth-quarter 2015 monitoring event, the well has been sampled two additional times, during the first-quarter 2016 and third-quarter 2016 monitoring events. Monitoring well WT048 was not sampled during the third-quarter 2017 monitoring event due to dry conditions at the well. In order to establish a database for statistical analysis, WT048 will continue to be sampled, provided the well produces water, until four quarters of data have been collected. Additionally, WT wells WT045 and WT049, which were also installed during the first-quarter 2015 POC well installation event, have not been sampled yet due to dry conditions. Should these wells begin to produce water, groundwater samples will be collected quarterly until a database for statistical analysis is established.

Sampling procedures followed the methods outlined in the approved SAP. Each well was gauged to determine groundwater depth and then purged of three to five well

[7] Detection Monitoring Program Point of Compliance Well Network and Sampling Schedule Recommendations, Pinewood, South Carolina, prepared by AECOM, June 6, 2013.

volumes or until dry. Samples were collected by S+G and analyzed for RCRA metals, select VOCs, chloride, and field parameters in accordance with the approved Part B permit. Additionally, TDS and 1,4-Dioxane were added to the laboratory analysis for each of the wells sampled. A list of the analytical parameters included in the third-quarter 2017 sampling event is presented in **Table 5**.

Shealy, located in Columbia, South Carolina (SCDHEC laboratory certification No. 32010) analyzed the samples in accordance with EPA and SCDHEC-approved methodologies. Quality control procedures, including field blanks, trip blanks, calibration standards, duplicates, and spikes were used to assess the bias and precision associated with the sample results. Constituent concentrations reported above MDL values were compared with state MCLs per South Carolina Administrative Rule R.61-68. Analytes detected at concentrations below the parameter-specific PQLs and above or equal to the parameter-specific MDLs are reported by Shealy as estimated concentrations and flagged with a "J" qualifier to indicate the result is an estimated value.

5.0 THIRD-QUARTER MONITORING EVENT RESULTS

5.1 Analytical Results

At the request of the SCDHEC and as recommended in AECOM's 2013 technical memorandum (previously referenced), the analytical list was expanded in the first quarter of 2015 to include TDS and 1,4-Dioxane. These compounds will continue to be included for all DMP POC monitoring wells and utilized as indicator parameters for a potential landfill leachate release since they are typically present in leachate at very high concentrations.

Laboratory analytical results indicate the landfill has not affected groundwater quality below the OC. All reported concentrations are below established MCLs and are consistent with previous sampling events. Laboratory reports of analysis, chain of custody documentation, and field data sheets are included in Appendix B. Third-quarter analytical detections are summarized in Table 6. Historical analytical results for select parameters from the samples collected from the TLS and UBC zones and the newly added POC wells sampled during the third quarter of 2017 are summarized on spreadsheets presented in Appendix C and are included for comparative purposes.

Field Parameters

Groundwater sampled from wells during the third-quarter event had pH values between 5.27 and 8.83 SU. Conductivity values in groundwater ranged from 100 to 250 umhos/cm. Turbidity ranged from 1.33 to 24.6 NTUs. Temperature ranged from 20.0 to 29.3 °C. Field parameter data indicate generally normal groundwater chemistry with ranges consistent with historically reported results.

Inorganic Constituent Detections

During the third-quarter 2017 sampling event, four inorganic parameters (arsenic, barium, chromium, and zinc) and two groundwater chemistry parameters (chloride and TDS) were detected in groundwater samples. Barium, chloride, and TDS were each detected in multiple wells; however, arsenic was only detected in one sample (UBC004), chromium was only detected in three samples (MW026ATR, MW028A, and MW133T), and zinc was only detected in two wells (MW029 and MW073T).

All observed concentrations of the inorganic and groundwater chemistry parameters were well below regulatory limits (primary or secondary drinking water standards) and are consistent with historical results. Barium and chloride are naturally occurring in groundwater at the Site and are routinely detected in downgradient TLS and UBC wells at concentrations similar to those detected in background wells.

Organic Constituent Detections

As stated above, groundwater samples were analyzed for a select list of organic constituents in accordance with the Part B permit. 1,4-Dioxane was added to the routine

DMP analyte list at the request of the SCHDEC and per the recommendation included in AECOM's technical memorandum (previously referenced).

1,4-Dioxane has historically been analyzed annually per the approved SAP in five select wells as part of the Appendix IX sampling requirement. The method historically utilized for this analysis (8260B) achieved a PQL of 10 µg/L. The analytical method now utilized for the routine analysis of 1,4-Dioxane (8260B SIM) can achieve a PQL of 3 µg/L.

No organic constituents were detected in the groundwater analyzed during the third-quarter 2017 sampling event.

5.2 Statistical Analysis

Statistical analyses were performed using the analytical data obtained from wells screened in the TLS and UBC-A zones during the third-quarter 2017 sampling event. All routinely monitored inorganic constituents were analyzed, with the exception of chloride. Organic constituents were not statistically evaluated since they are detected infrequently at the Site.

The statistical analysis was performed in a two-step process in accordance with the facility RCRA Part B permit. First, inter-well (upgradient versus downgradient) analyses were performed on the data for the TLS and UBC-A zones. If the result indicated a statistically significant increase through inter-well analysis, a second step consisting of an intra-well analysis (each well compared to its own history) was performed.

The analyses were performed using the DUMP-Stat analytical program. Upgradient versus downgradient comparisons are based on normal, lognormal, and nonparametric prediction limits following screening of all upgradient data for outliers. Intra-well comparisons are based on combined Shewart-CUSUM control charts, which produce prediction limits specific to an individual well's historical and current data. The Shewart-CUSUM control chart method is sensitive to both gradual and rapid releases and is also a useful method for detecting trends in data. The statistical output includes upgradient versus downgradient (inter-well) comparisons presented in both graphical and tabular format. Intra-well comparisons are presented in graphical format only.

The results of the two-step statistical evaluation for each hydrogeologic zone are summarized in **Table 7**. The results of the statistical analyses are included in **Appendices D** and **E**.

As shown in **Table 7**, well UBC004, screened in the UBC-A zone, exceeded the third quarter intra-well prediction limit for arsenic. Therefore, confirmation sampling of this well will be completed during the fourth quarter of 2017 to determine if a statistical failure or an anomaly has occurred.

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TABLES

2017 Third Quarter Detection Monitoring Program Report
Pinewood Site
SCD 070 375 985

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SMITH+GARDNER

Table 1
Groundwater Elevations - Fourth Quarter 2016 through Third Quarter 2017
Pinewood Site

By: BJW
Date: 8/10/2017

Well Identification	Oct-16	Jan-17	Apr-17	Jul-17	Yearly Maximum Intra-Well Fluctuation (feet)
CBC004	71.92	69.88	75.98	75.37	6.10
MW005A	101.21	101.87	101.28	100.92	0.95
MW005BSR	81.51	78.93	80.53	82.01	3.08
MW006TR	90.40	89.80	89.87	90.12	0.60
MW007SR	82.32	80.35	81.38	82.57	2.22
MW008TR	87.84	86.96	87.08	87.62	0.88
MW009	83.40	81.61	82.38	83.49	1.88
MW009A	85.11	83.56	84.14	85.07	1.55
MW010	83.00	81.20	81.96	83.12	1.92
MW011	82.98	81.12	81.94	83.09	1.97
MW012	82.93	81.05	81.84	83.03	1.98
MW013	83.04	81.15	81.94	83.12	1.97
MW014	82.75	80.92	81.66	82.88	1.96
MW015	89.11	88.09	87.94	88.89	1.17
MW016TR	95.33	95.51	95.23	94.92	0.59
MW017	76.94	72.47	76.68	78.46	5.99
MW018APR	76.37	74.32	76.80	76.85	2.53
MW018B	82.12	80.11	81.05	82.36	2.25
MW019A	94.22	94.20	94.04	93.88	0.34
MW020A	92.98	92.96	92.84	92.71	0.27
MW020B	82.16	80.20	80.96	82.25	2.05
MW021	85.65	85.11	84.95	85.10	0.70
MW022TR	86.71	86.66	86.06	85.48	1.23
MW023ATR	86.29	86.73	86.07	85.47	1.26
MW023SR	83.33	83.17	83.10	83.09	0.24
MW024TR	87.42	88.47	86.92	85.98	2.49
MW025SR	82.60	82.06	79.39	81.57	3.21
MW026ATR	92.29	92.99	91.68	90.91	2.08
MW026B	86.11	85.48	85.08	84.92	1.19
MW027A	89.49	89.14	89.30	89.13	0.36
MW027AR	87.93	87.37	87.63	87.73	0.56
MW027BTR	95.40	95.81	94.94	94.55	1.26
MW028A	96.93	97.17	96.35	95.81	1.36
MW028B	82.22	79.85	81.27	82.50	2.65
MW029	97.63	98.02	97.34	96.57	1.45
MW030	97.86	98.40	97.36	96.61	1.79
MW031TR	92.84	92.61	92.65	92.63	0.23
MW033	98.79	98.23	98.35	98.51	0.56
MW034	101.56	101.20	101.22	101.25	0.36
MW035S	81.44	77.91	81.01	82.66	4.75
MW036SR	75.49	70.61	75.86	77.59	6.98

Well Identification	Oct-16	Jan-17	Apr-17	Jul-17	Yearly Maximum Intra-Well Fluctuation (feet)
MW037SR	75.35	70.81	76.18	77.57	6.76
MW038SR	78.65	74.37	78.98	80.81	6.44
MW039P	74.92	71.51	75.57	76.40	4.89
MW040P	75.29	72.29	75.97	76.36	4.07
MW041T	86.09	84.81	85.17	86.64	1.83
MW042TR	88.18	87.31	87.42	88.70	1.39
MW043T	93.21	93.58	93.43	93.23	0.37
MW044P	75.49	72.47	76.04	76.43	3.96
MW045T	98.69	98.82	98.68	98.61	0.21
MW046P	75.62	72.87	76.21	76.45	3.58
MW047P	75.60	72.77	76.19	76.51	3.74
MW048TR	97.45	96.94	96.81	97.63	0.82
MW049T	93.92	92.52	93.05	93.98	1.46
MW050T	95.33	94.65	94.53	95.39	0.86
MW051T	98.55	99.11	98.44	97.95	1.16
MW052T	86.54	86.63	86.06	85.90	0.73
MW053P	76.75	75.17	77.06	76.13	1.89
MW054T	87.49	88.35	86.72	86.54	1.81
MW055P	77.41	76.24	77.65	76.47	1.41
MW056P	77.33	76.19	77.62	76.49	1.43
MW057S	80.44	77.71	79.73	81.71	4.00
MW058P	76.87	74.54	76.99	77.50	2.96
MW059S	78.85	72.02	78.56	79.66	7.64
MW060SR	78.54	75.65	78.35	79.40	3.75
MW061T	101.71	101.67	101.48	101.63	0.23
MW062S	76.34	72.01	76.79	78.02	6.01
MW063SR	74.92	70.59	75.95	76.24	5.65
MW064P	74.45	70.40	75.71	75.67	5.31
MW071T	87.54	86.51	87.24	88.48	1.97
MW072PR*	74.09	70.01	75.69	75.20	5.68
MW073T	89.44	88.22	88.60	89.54	1.32
MW077P	74.59	68.38	74.43	78.20	9.82
MW078T	83.28	79.88	81.55	85.07	5.19
MW080TR	76.82	72.12	76.71	78.92	6.80
MW081T	N/A	N/A	N/A	N/A	0.00
MW082S	N/A	N/A	N/A	N/A	0.00
MW086SR	76.21	71.74	76.70	78.14	6.40
MW087P	74.69	70.51	75.96	75.82	5.45
MW089T	78.04	73.15	78.01	80.33	7.18
MW090SR	75.05	70.67	76.05	76.40	5.73
MW091PR	74.87	70.62	75.97	76.11	5.49

Notes:
All elevations are relative to feet above Mean Sea Level

SMITH+GARDNER

Table 1
Groundwater Elevations - Fourth Quarter 2016 through Third Quarter 2017
Pinewood Site

By: BJW
Date: 8/10/2017

Well Identification	Oct-16	Jan-17	Apr-17	Jul-17	Yearly Maximum Intra-Well Fluctuation (feet)
MW092SR	70.98	65.80	74.28	74.97	9.17
MW093PR	70.88	65.86	74.28	74.97	9.11
MW094PR	74.49	64.27	75.18	75.32	11.05
MW095P	70.33	65.77	73.65	74.66	8.89
MW096T	109.63	108.32	108.94	109.42	1.31
MW097T	71.22	66.07	74.41	74.00	8.34
MW098TR	73.79	65.27	74.70	77.25	11.98
MW099P	74.57	70.47	75.95	76.90	6.43
MW100P	78.79	75.93	78.68	79.33	3.40
MW101T	75.84	70.71	76.28	78.07	7.36
MW102S	74.61	69.94	75.81	77.03	7.09
MW103P	73.88	69.85	75.74	76.47	6.62
MW114T	75.92	70.85	77.74	80.90	10.05
MW115T	72.32	69.24	76.25	76.29	7.05
MW116T	76.89	71.03	78.82	80.06	9.03
MW117T	70.56	68.23	75.15	75.36	7.13
MW125P	74.29	70.26	75.80	76.75	6.49
MW126T	71.92	66.14	74.48	75.44	9.30
MW127T	95.34	95.37	95.24	95.05	0.32
MW128S	76.98	72.63	76.75	78.43	5.80
MW129S	76.89	72.53	76.82	78.43	5.90
MW130P	N/A	N/A	N/A	N/A	0.00
MW131T	101.78	101.47	101.37	101.44	0.41
MW132T	101.8	101.43	101.45	101.45	0.37
MW133T	103.74	100.81	100.94	100.94	2.93
MW134T	92.82	90.86	92.61	93.26	2.40
MW135S	75.03	70.50	75.91	77.31	6.81
MW137T	71.53	68.73	75.65	75.63	6.92
MW138P	70.15	68.27	74.71	75.19	6.92
MW139S	72.02	66.23	74.68	75.67	9.44
MW140S	70.85	65.57	74.36	74.81	9.24
MW141T	73.96	69.11	76.57	77.21	8.10
MW142T	100.01	98.83	98.92	99.71	1.18
MW143T	106.78	106.05	105.74	106.02	1.04
MW144T	72.20	66.10	74.59	75.73	9.63
MW145P	74.53	70.53	75.86	76.74	6.21
MW146P	74.20	70.06	75.55	76.50	6.44
MW147P	74.25	69.94	75.38	76.40	6.46
MW148P	69.98	68.15	74.60	75.22	7.07
MW149P	71.91	65.90	74.46	75.52	9.62
OC002	91.87	90.87	90.97	91.67	1.00
OC003	100.40	101.52	100.00	98.81	2.71
OC004	99.59	100.73	99.59	98.22	2.51
OC005	107.38	106.59	106.77	105.86	1.52
OC006	98.19	98.36	98.76	98.30	0.57

Well Identification	Oct-16	Jan-17	Apr-17	Jul-17	Yearly Maximum Intra-Well Fluctuation (feet)
OC007	110.36	111.45	109.88	108.90	2.55
OC008R	106.22	105.81	106.42	106.45	0.64
OC009	100.41	100.89	100.58	99.97	0.92
OC010	97.75	98.81	98.81	97.49	1.32
OC011	97.95	99.34	99.43	97.92	1.51
OC012	101.67	102.21	101.86	101.19	1.02
OC013	100.40	101.24	100.09	98.73	2.51
OC014	99.66	99.20	100.27	100.11	1.07
OC015	108.05	108.93	108.58	107.67	1.26
OC016	109.39	109.60	109.73	108.78	0.95
OCS001	128.07	128.79	127.48	126.72	2.07
OCS002	119.64	120.03	119.12	118.74	1.29
OCS003A	129.40	129.64	128.50	127.47	2.17
OCS003B	139.02	138.41	137.52	135.77	3.25
OCS004	125.55	125.82	125.13	123.90	1.92
OCS005	117.54	117.39	116.54	115.84	1.70
OCS006A	122.80	122.96	121.74	120.95	2.01
OCS006B	130.50	130.24	129.12	127.52	2.98
OCS008R	111.36	111.51	111.05	111.15	0.46
OCS011	112.90	112.80	112.76	112.69	0.21
P042B	69.82	67.87	74.56	74.93	7.06
P042T	71.32	67.62	75.16	75.10	7.54
P112A	76.73	71.21	76.99	78.81	7.60
P112B	75.24	70.02	76.45	77.74	7.72
P112C	70.76	68.76	75.19	75.38	6.62
P112D	70.79	68.80	75.21	75.40	6.60
P114A	72.97	67.10	75.21	76.41	9.31
P114B	71.63	66.33	74.42	75.28	8.95
P114C	69.49	67.64	74.33	74.80	7.16
P114D	69.46	67.55	74.29	74.71	7.16
PBC002	79.81	76.76	80.44	81.09	4.33
PBC004	76.67	74.97	77.04	76.83	2.07
PBC006	77.01	75.59	77.30	76.95	1.71
PSDL001	86.01	85.16	85.82	86.04	0.88
PSDL004	83.13	82.63	82.20	81.74	1.39
PSDL005	86.25	86.34	85.93	84.87	1.47
PSDL007	82.49	80.68	81.30	82.53	1.85
PSDL012	89.42	89.18	88.65	88.59	0.83
PSDL013	76.41	74.71	76.88	76.85	2.17
PSDL014	89.98	89.51	89.35	89.56	0.63
PSDL014A	82.93	81.07	81.88	83.04	1.97
PSDL017	101.36	100.88	100.99	101.07	0.48
PSDL017A	94.31	92.53	93.99	94.62	2.09
PSDL021	87.59	86.81	87.03	87.69	0.88
PSDL021A	82.43	80.48	81.70	82.68	2.20

Notes:
All elevations are relative to feet above Mean Sea Level

SMITH+GARDNER

Table 1
Groundwater Elevations - Fourth Quarter 2016 through Third Quarter 2017
Pinewood Site

By: BJW
Date: 8/10/2017

Well Identification	Oct-15	Jan-17	Apr-17	Jul-17	Yearly Maximum Intra-Well Fluctuation (feet)
SL001	89.91	89.38	89.42	89.63	0.53
SL002	96.36	96.38	96.44	96.08	0.36
SL003	95.98	96.24	95.99	95.51	0.73
SL004	93.85	93.92	92.58	92.26	1.66
SL005	81.70	80.41	80.07	81.01	1.63
SL006	95.18	94.32	94.39	95.02	0.86
SL007	73.39	68.99	73.31	74.99	6.00
SL013	75.52	72.02	76.04	76.85	4.83
SL014PR	75.33	72.26	75.94	76.63	4.37
SL015	74.11	69.78	75.12	76.17	6.39
SL016	73.94	69.97	75.41	76.27	6.30
SL019SR	75.25	70.85	76.20	77.43	6.58
SL020SR	76.19	72.06	76.63	77.93	5.87
SL021PR	76.22	72.09	76.65	78.01	5.92
SL022	77.34	76.25	77.65	77.12	1.40
SL023	76.67	74.95	77.03	76.89	2.08
SL024	76.61	74.75	76.98	76.84	2.23
UBC001	71.14	69.05	75.68	75.20	6.63
UBC004	74.53	70.49	75.76	76.68	6.19
UBC005	71.40	69.33	75.80	75.21	6.47
UBC006	70.79	68.64	69.75	75.02	6.38
UBC008	70.96	68.87	75.47	75.06	6.60
UBC010	74.87	71.54	75.57	76.50	4.96
UBC011	75.18	72.16	75.84	76.46	4.30
UBC012	75.50	72.65	76.13	76.59	3.94
UBC013	75.42	72.55	76.05	76.55	4.00
UBC014	75.50	72.56	76.18	76.64	4.08
UBC015AR	75.97	73.42	76.45	76.82	3.40
UBC016	76.40	74.46	76.80	76.79	2.34
UBC017	76.70	75.09	77.09	76.81	2.00
UBC017B	71.91	69.93	76.17	75.49	6.24
UBC018	77.18	75.88	77.45	77.03	1.57
UBC018B	71.72	69.65	76.30	75.21	6.65
UBC019	74.17	69.93	75.29	76.35	6.42
UBC021	72.09	68.70	75.12	75.56	6.86
UBC022AR	74.49	70.02	75.39	76.67	6.65
UBC023	N/A	N/A	N/A	N/A	0.00
UBC024	74.18	70.08	75.84	76.63	6.55
UBC025	69.84	67.96	74.50	75.15	7.19
UBC026	70.78	68.76	75.27	75.34	6.58
UBC027	69.09	67.20	74.02	74.84	7.64
UBC028AR	70.14	65.91	74.42	74.48	8.57
UBC029AR	70.92	68.74	75.41	75.41	6.67
UBC030	77.06	75.51	77.35	77.16	1.84

Well Identification	Oct-15	Jan-17	Apr-17	Jul-17	Yearly Maximum Intra-Well Fluctuation (feet)
UBC031	70.36	68.36	74.97	75.27	6.91
UBC034	70.95	68.67	75.20	75.18	6.53
UBC048	70.35	68.35	74.96	75.28	6.93
UBC049	70.06	68.16	74.76	75.25	7.09
UBC051	77.26	76.01	77.52	76.98	1.51
UBC052	72.04	69.76	76.05	75.45	6.29
UBC053	75.23	72.15	75.82	76.52	4.37
UBC054	70.24	68.37	74.87	75.20	6.83
UBC055	69.55	66.51	74.33	74.68	8.17
UBC056	72.89	67.07	75.34	76.36	9.29
UBC057	73.45	67.32	73.99	76.20	8.88
UBC058	74.93	70.73	75.98	77.03	6.30
UBC059	74.61	70.97	75.67	76.42	5.45
UBC060	73.86	69.70	75.12	76.14	6.44
UBC061	69.97	68.20	74.62	75.19	6.99
UBC062	75.16	70.79	75.94	77.19	6.40
UBC063	69.84	68.02	74.45	75.08	7.06
WT008	142.71	142.71	141.00	138.86	3.85
WT010	88.25	87.00	86.43	85.84	2.41
WT011	80.52	89.39	80.17	79.27	10.12
WT012	79.52	78.99	78.87	77.72	1.80
WT015	92.57	90.73	90.07	90.15	2.50
WT016	94.46	93.25	92.47	91.81	2.65
WT026	132.07	130.64	129.90	127.28	4.79
WT027	110.46	110.08	109.07	108.44	2.02
WT030	99.01	99.47	98.92	94.14	5.33
WT032	119.59	119.51	118.82	118.43	1.16
WT033	145.00	145.28	145.38	145.34	0.38
WT034	141.43	141.39	140.70	139.37	2.06
WT035	141.54	141.77	141.23	132.47	9.30
WT036	143.68	144.18	141.42	139.48	4.70
WT037	142.02	141.75	140.77	138.29	3.73
WT038	138.35	136.76	135.95	133.39	4.96
WT039	135.80	135.46	134.60	125.67	10.13
WT040	133.76	133.92	132.94	131.58	2.34
WT041	111.11	111.52	111.39	110.99	0.53
WT042	121.19	120.96	120.99	119.12	2.07
WT043	121.12	122.28	121.45	120.62	1.66
WT044	117.76	117.82	117.43	117.67	0.39
WT045	DRY	102.36	102.39	102.37	0.03
WT046	108.56	107.51	107.39	108.58	1.19
WT047	118.65	120.34	118.11	116.92	3.42
WT048	111.67	111.58	111.51	111.72	0.21
WT049	DRY	DRY	DRY	DRY	0.00

Notes:
All elevations are relative to feet above Mean Sea Level

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Table 2
Well Construction Details
Pinewood Site

By: BJW
Date: 8/10/2017

Well Identification	Screened Zone	Monitored Area	Installation Date	Easting (ft)	Northing (ft)	Top of Screen Elevation (ft)	Bottom of Screen Elevation (ft)	Well Diameter (in)	Total Depth (ft)	Ground Surface Elevation (ft)	TOC Elevation (ft)	Measurement Date	Depth to Water (ft bgs)	Groundwater Elevation (ft amsl)
CBC004	UBC-A	Other	8/31/1985	2143592.85	677158.31	14.59	4.59	2	98.58	99.59	103.17	7/28/2017	27.80	75.37
MW005A	TLS	Section I	1/23/1987	2145610.52	674906.79	80.87	75.87	2	53.32	125.87	129.19	7/28/2017	28.27	100.92
MW005BSR	SSDL	Section I	11/21/1995	2145622.43	674904.88	52.27	47.27	4	82.93	127.27	130.20	7/28/2017	48.19	82.01
MW006TR	TLS	Section I	2/24/1994	2145535.99	675029.12	69.07	64.07	4	64.65	125.07	128.72	7/28/2017	38.60	90.12
MW007SR	SSDL	Section I	1/18/1994	2145445.89	675147.90	50.08	45.08	4	83.57	125.08	128.65	7/28/2017	46.08	82.57
MW008TR	TLS	Section I	2/10/1994	2145353.70	675270.92	68.25	58.25	4	69.92	124.25	128.17	7/28/2017	40.55	87.62
MW009	SSDL	Section I	8/21/1985	2145262.00	675381.14	54.22	44.22	2	80.81	122.22	125.03	7/28/2017	41.54	83.49
MW009A	TLS	Section I	2/4/1987	2145251.66	675397.52	67.62	62.62	2	63.42	122.62	126.04	7/28/2017	40.97	85.07
MW010	SSDL	Section I	8/20/1985	2145166.69	675501.17	56.74	46.74	2	79.08	121.74	125.82	7/28/2017	42.70	83.12
MW011	SSDL	Section I	8/24/1985	2145070.08	675618.03	57.35	47.35	2	79.30	122.35	126.65	7/28/2017	43.56	83.09
MW012	SSDL	Section I	8/22/1985	2144978.16	675734.43	58.92	48.92	2	72.48	119.15	121.40	7/28/2017	38.37	83.03
MW013	SSDL	Section I	8/12/1985	2144936.30	675844.47	60.82	50.82	2	68.84	116.82	119.66	7/28/2017	36.54	83.12
MW014	SSDL	Section I	8/6/1985	2145068.60	675946.67	57.98	47.98	2	73.76	117.98	121.74	7/28/2017	38.86	82.88
MW015	SSDL	Section I	8/7/1985	2145183.68	676048.95	61.08	51.08	2	71.93	119.08	123.01	7/28/2017	34.12	88.89
MW016TR	TLS	Section I	3/10/1994	2145301.88	676154.57	74.37	69.37	4	52.76	118.37	122.13	7/28/2017	27.21	94.92
MW017	SSDL	Section I	8/9/1985	2145417.47	676237.42	58.68	48.68	2	72.07	117.68	120.75	7/28/2017	42.29	78.46
MW018APR	PSDL	Section II	6/27/1994	2144748.46	676444.80	41.04	31.04	4	99.83	127.04	130.87	7/28/2017	54.02	76.85
MW018B	SSDL	Section II	Unknown	2144752.99	676450.95	64.96	54.96	2	75.44	126.96	130.40	7/28/2017	48.04	82.36
MW019A	TLS	Section II	Unknown	2144596.89	676426.19	72.85	67.85	4	61.97	125.85	129.82	7/28/2017	35.94	93.88
MW020A	TLS	Section II	Unknown	2144445.94	676423.15	76.68	71.68	4	58.95	126.68	130.63	7/28/2017	37.92	92.71
MW020B	SSDL	Section II	Unknown	2144460.92	676429.12	65.70	50.70	4	79.76	126.70	130.46	7/28/2017	48.21	82.25
MW021	SSDL	Section II	8/30/1985	2144303.40	676467.93	72.01	62.01	2	69.97	126.01	131.98	7/28/2017	46.88	85.10
MW022TR	TLS	Section II	3/9/1994	2144152.72	676491.21	75.50	70.50	4	62.78	129.50	133.28	7/28/2017	47.80	85.48
MW023ATR	TLS	Section II	3/8/1994	2144031.90	676576.98	80.68	75.68	4	56.60	128.68	132.28	7/28/2017	46.81	85.47
MW023SR	SSDL	Section II	3/30/1994	2144025.47	676581.66	65.87	55.87	4	76.41	128.87	132.28	7/28/2017	49.19	83.09
MW024TR	TLS	Section II	3/1/1994	2143940.97	676824.16	82.57	77.57	4	57.70	131.57	135.27	7/28/2017	49.29	85.98
MW025SR	SSDL	Section II	3/29/1994	2143940.73	676832.16	63.82	58.82	4	76.76	132.82	135.58	7/28/2017	54.01	81.57
MW026ATR	TLS	Section II	3/4/1994	2143971.99	676980.66	85.83	80.83	4	54.69	131.83	135.52	7/28/2017	44.61	90.91
MW026B	SSDL	Section II	7/ /89	2143964.60	676978.12	76.05	56.05	4	79.59	132.05	135.64	7/28/2017	50.72	84.92
MW027A	SSDL	Section II	2/3/1987	2143992.13	677140.14	75.29	70.29	2	64.73	132.39	135.02	7/28/2017	45.89	89.13
MW027AR	SSDL	Section II	3/22/2001	2143995.49	677113.05	Unknown	61.02	4	75.21	132.52	136.23	7/28/2017	48.50	87.73
MW027BTR	TLS	Section II	2/24/1994	2144003.88	677112.53	85.22	80.22	4	55.47	132.22	135.69	7/28/2017	41.14	94.55
MW028A	TLS	Section II	7/13/1989	2144051.65	677249.61	88.70	83.70	4	95.00	132.70	136.30	7/28/2017	40.49	95.81
MW028B	SSDL	Section II	7/13/1989	2144047.36	677268.84	74.70	64.70	4	71.62	132.70	136.32	7/28/2017	53.82	82.50
MW029	TLS	Section II	10/24/1986	2144076.11	677418.44	89.27	84.27	2	52.21	133.27	136.48	7/28/2017	39.91	96.57
MW030	TLS	Section II	10/22/1986	2144108.96	677563.65	87.50	82.50	2	55.67	135.00	138.17	7/28/2017	41.56	96.61
MW031TR	TLS	Section I	4/18/1996	2145623.99	676239.96	65.86	60.86	4	60.57	117.86	121.43	7/28/2017	28.80	92.63
MW033	TLS	Section I	8/11/1987	2145921.53	675825.40	67.25	62.25	2	66.81	125.75	129.06	7/28/2017	30.55	98.51
MW034	TLS	Other	8/13/1987	2146185.29	675657.13	68.43	63.43	2	77.07	137.43	140.50	7/28/2017	39.25	101.25
MW035S	SSDL	Section I	Unknown	2145729.75	676118.25	48.00	43.00	4	87.74	126.00	130.74	7/28/2017	48.08	82.66
MW036SR	SSDL	Section I	4/6/1994	2145913.91	675838.09	49.54	44.54	4	85.42	126.54	129.96	7/28/2017	52.37	77.59
MW037SR	SSDL	Section I	4/4/1994	2146074.03	675608.58	47.92	42.92	4	88.07	126.92	130.99	7/28/2017	53.44	77.55
MW038SR	SSDL	Section I	6/29/1994	2146283.47	675387.79	49.53	44.53	4	88.66	129.53	133.19	7/28/2017	52.77	80.42
MW039P	PSDL	Section I	1/ /90	2145597.00	674921.10	39.47	29.47	4	99.60	125.47	129.07	7/28/2017	52.58	76.49
MW040P	PSDL	Section I	Unknown	2145171.90	675486.56	34.08	29.08	4	96.21	122.08	125.29	7/28/2017	48.77	76.52
MW041T	TLS	Section I	1/18/1991	2145178.05	675493.91	69.63	59.63	4	66.36	122.63	125.99	7/28/2017	40.03	85.96
MW042TR	TLS	Section I	3/15/1996	2145086.18	675609.78	69.35	64.35	4	61.94	123.35	126.29	7/28/2017	38.28	88.01
MW043T	TLS	Section I	1/3/1991	2144973.69	675756.85	77.36	72.36	4	50.27	119.36	122.63	7/28/2017	29.66	92.97
MW044P	PSDL	Section I	/ /90	2144974.55	675744.77	37.89	32.89	4	89.56	119.89	122.45	7/28/2017	45.84	76.61
MW045T	TLS	Section I	1/3/1991	2145089.08	675963.58	75.55	70.55	4	52.29	119.55	122.84	7/28/2017	24.50	98.34
MW046P	PSDL	Section I	2/21/1990	2145077.06	675954.90	32.06	27.06	4	95.58	119.06	122.64	7/28/2017	46.00	76.64
MW047P	PSDL	Section I	/ /90	2145286.51	676132.32	47.37	37.37	4	84.52	119.37	121.89	7/28/2017	45.23	76.66
MW048TR	TLS	Section II	3/20/1996	2145330.85	676732.14	75.23	70.23	4	68.50	135.23	138.73	7/28/2017	41.41	97.32
MW049T	TLS	Section II	5/1/1991	2145180.26	676647.39	68.44	63.44	4	68.51	128.44	131.95	7/28/2017	38.20	93.75
MW050T	TLS	Section II	3/26/1991	2145032.25	676601.71	73.80	68.80	4	61.12	126.80	129.92	7/28/2017	34.74	95.18
MW051T	TLS	Section II	3/26/1991	2144907.33	676488.09	76.68	71.68	4	59.53	127.68	131.21	7/28/2017	32.87	98.34

SMITH+GARDNER

Table 2
Well Construction Details
Pinewood Site

By: BJW
Date: 8/10/2017

Well Identification	Screened Zone	Monitored Area	Installation Date	Easting (ft)	Northing (ft)	Top of Screen Elevation (ft)	Bottom of Screen Elevation (ft)	Well Diameter (in)	Total Depth (ft)	Ground Surface Elevation (ft)	TOC Elevation (ft)	Measurement Date	Depth to Water (ft bgs)	Groundwater Elevation (ft amsl)
MW052T	TLS	Section II	3/26/1991	2144290.61	676448.73	78.81	73.81	4	57.54	128.81	131.35	7/28/2017	45.89	85.46
MW053P	PSDL	Section II	4/27/1990	2144155.73	676501.74	42.47	32.47	4	100.68	128.47	133.15	7/28/2017	56.41	76.74
MW054T	TLS	Section II	3/26/1991	2143922.25	676688.93	81.02	76.02	4	57.63	130.02	133.65	7/28/2017	47.81	85.84
MW055P	PSDL	Section II	6/27/1990	2143919.17	676674.64	50.47	40.47	4	93.32	130.47	133.79	7/28/2017	56.72	77.07
MW056P	PSDL	Section II	6/27/1990	2143968.19	676961.74	52.02	42.02	4	93.40	132.02	135.42	7/28/2017	58.37	77.05
MW057S	SSDL	Section II	4/25/1991	2144081.80	677429.54	76.09	66.09	4	71.23	134.09	137.32	7/28/2017	56.30	81.02
MW058P	PSDL	Section II	6/27/1990	2144114.56	677580.64	51.28	41.28	4	98.79	136.28	140.07	7/28/2017	62.53	77.54
MW059S	SSDL	Section II	4/30/1991	2144142.71	677701.83	68.64	58.64	4	82.61	137.64	141.25	7/28/2017	62.05	79.20
MW060SR	SSDL	Section II	11/15/1995	2144182.44	677862.25	61.77	56.77	4	88.36	141.77	145.13	7/28/2017	66.14	78.99
MW061T	TLS	Section II	3/26/1991	2144144.11	677713.34	82.72	77.72	4	63.40	137.72	141.12	7/28/2017	39.75	101.37
MW062S	SSDL	Section II	6/19/1990	2145414.55	677813.48	64.49	59.49	4	98.50	154.49	157.99	7/28/2017	79.84	78.15
MW063SR	SSDL	Section II	5/16/1996	2145699.33	677788.45	45.97	40.97	4	121.45	158.97	162.42	7/28/2017	85.37	77.05
MW064P	PSDL	Section II	11/10/1992	2145310.26	676708.03	35.80	25.80	4	112.65	134.80	138.45	7/28/2017	61.80	76.65
MW071T	TLS	Section I	10/5/1992	2145736.20	676139.81	56.90	51.90	4	78.54	126.90	130.44	7/28/2017	42.37	88.07
MW072PR	PSDL	Section I	2/16/2016	2145875.38	676010.91	31.97	26.97	2	101.00	127.97	130.41	7/28/2017	53.92	76.49
MW073T	TLS	Section I	12/14/1992	2145866.75	676002.97	61.69	56.69	4	73.96	124.69	130.65	7/28/2017	41.58	89.07
MW077P	PSDL	Other	12/16/1992	2146469.18	675823.70	30.40	25.40	4	120.71	142.40	146.11	7/28/2017	68.97	77.14
MW078T	TLS	Other	12/16/1992	2146459.95	675832.24	58.10	53.10	4	92.69	142.10	145.79	7/28/2017	62.12	83.67
MW080TR	TLS	Section II	4/15/1996	2145710.07	677785.27	58.97	53.97	4	108.41	158.97	162.38	7/28/2017	83.86	78.52
MW086SR	SSDL	Section II & III	5/29/1996	2145735.94	677318.34	54.92	49.92	4	116.62	162.92	166.54	7/28/2017	88.35	78.19
MW087P	PSDL	Section II & III	9/28/1992	2145739.92	677306.97	47.31	37.31	4	129.50	154.89	166.81	7/28/2017	89.88	76.93
MW089T	TLS	Section II & III	12/20/1992	2145785.60	677622.50	55.99	50.99	4	109.21	156.70	160.20	7/28/2017	80.28	79.92
MW090SR	SSDL	Section II & III	12/21/1995	2145777.69	677619.28	49.10	44.10	4	116.00	156.26	160.10	7/28/2017	82.95	77.15
MW091PR	PSDL	Section II & III	1/12/1996	2145775.77	677609.87	34.41	29.41	4	130.78	156.41	160.19	7/28/2017	83.17	77.02
MW092SR	SSDL	Other	2/3/1995	2148000.32	676819.91	28.17	23.17	4	154.41	174.17	177.58	7/28/2017	102.61	74.97
MW093PR	PSDL	Other	1/27/1995	2148003.88	676809.11	17.43	12.43	4	164.84	173.43	177.27	7/28/2017	102.30	74.97
MW094PR	PSDL	Other	1/24/1995	2147312.57	677584.03	14.47	9.47	4	168.34	174.47	177.81	7/28/2017	102.49	75.32
MW095P	PSDL	Other	10/30/1992	2148081.33	676175.54	22.20	17.20	4	158.15	172.20	175.35	7/28/2017	100.69	74.66
MW096T	TLS	Other	1/8/1993	2148083.48	676190.42	42.51	37.51	4	138.27	171.51	175.78	7/28/2017	66.36	109.42
MW097T	TLS	Other	12/16/1992	2147236.21	675532.78	23.10	13.10	4	148.72	158.10	161.82	7/28/2017	87.82	74.00
MW098TR	TLS	Other	2/8/1995	2147997.25	676829.99	43.17	38.17	4	139.48	174.17	177.65	7/28/2017	100.40	77.25
MW099P	PSDL	Section II & III	12/19/1992	2145670.81	677018.09	43.60	33.60	4	120.67	150.60	154.27	7/28/2017	77.37	76.90
MW100P	PSDL	Section II	7/25/1994	2144169.58	677848.11	52.47	47.47	4	97.25	140.47	144.72	7/28/2017	65.39	79.33
MW101T	TLS	Section III	6/22/1995	2146580.31	676683.31	57.46	47.46	4	120.50	164.46	167.96	7/28/2017	89.89	78.07
MW102S	SSDL	Section III	6/23/1995	2146573.55	676674.81	42.22	37.22	4	130.50	164.22	167.72	7/28/2017	90.69	77.03
MW103P	PSDL	Section III	6/27/1995	2146572.88	676666.69	31.92	26.92	4	140.50	163.92	167.42	7/28/2017	90.95	76.47
MW114T	TLS	Section III	7/30/1996	2146704.50	676814.00	33.33	23.33	4	145.43	165.33	168.76	7/28/2017	87.86	80.90
MW115T	TLS	Section III	7/26/1996	2146711.97	676821.21	17.41	12.41	4	156.43	165.41	168.84	7/28/2017	92.55	76.29
MW116T	TLS	Section III	8/3/1996	2146842.07	676955.27	25.88	20.88	4	147.84	165.38	168.72	7/28/2017	88.66	80.06
MW117T	TLS	Section III	8/12/1996	2146849.81	676961.65	15.40	10.40	4	158.31	165.40	168.71	7/28/2017	93.35	75.36
MW125P	PSDL	Section III	5/1/2001	2145728.24	676748.97	Unknown	20.99	4	113.42	130.93	134.41	7/28/2017	57.66	76.75
MW126T	TLS	Other	2/21/1995	2147328.09	677574.14	41.15	36.15	4	141.00	174.15	177.15	7/28/2017	101.71	75.44
MW127T	TLS	Section II	6/30/1995	2144765.56	676447.37	76.73	71.73	4	58.10	126.73	129.83	7/28/2017	34.78	95.05
MW128S	SSDL	Section II	7/1/1995	2145039.15	676565.58	53.97	48.97	4	80.61	125.97	129.58	7/28/2017	51.15	78.43
MW129S	SSDL	Section II	7/3/1995	2145178.51	676637.69	54.44	49.44	4	81.41	127.44	130.85	7/28/2017	52.42	78.43
MW131T	TLS	Section I	3/26/2001	2146004.50	675730.74	Unknown	58.94	4	69.68	124.94	128.62	7/28/2017	27.18	101.44
MW132T	TLS	Section I	4/9/2001	2146093.85	675582.50	Unknown	60.96	4	67.58	124.96	128.54	7/28/2017	27.09	101.45
MW133T	TLS	Section I	4/9/2001	2146207.57	675472.84	Unknown	58.13	4	72.45	127.13	130.58	7/28/2017	29.64	100.94
MW134T	TLS	Section I	4/4/2001	2416270.52	675401.77	Unknown	55.52	4	77.42	129.52	132.94	7/28/2017	39.68	93.26
MW135S	SSDL	Section III	5/2/2001	2145720.21	676756.23	Unknown	42.73	4	91.00	130.43	133.73	7/28/2017	56.42	77.31
MW137T	TLS	Section III	8/1/2011	2146751.47	677660.77	38.63	28.63	2	126.00	154.63	157.63	7/28/2017	82.00	75.63
MW138P	PSDL	Section III	8/1/2011	2146744.82	677661.89	12.87	7.87	2	147.00	154.87	157.81	7/28/2017	82.62	75.19
MW139S	SSDL	Section III	7/30/2011	2147041.82	677389.85	35.37	30.37	2	130.00	160.37	163.43	7/28/2017	87.76	75.67
MW140S	SSDL	Other	7/27/2011	2148077.05	676191.09	30.75	25.75	2	147.00	172.75	175.88	7/28/2017	101.07	74.81
MW141T	TLS	Other	7/29/2011	2147616.49	675961.84	37.51	32.51	2	123.00	155.51	158.54	7/28/2017	81.33	77.21
MW142T	TLS	Section II	1/8/2015	2145348.40	677811.23	73.62	63.62	2	88.00	151.62	154.65	7/28/2017	54.94	99.71

SMITH+GARDNER

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Well Construction Details
Pinewood Site

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Well Identification	Screened Zone	Monitored Area	Installation Date	Easting (ft)	Northing (ft)	Top of Screen Elevation (ft)	Bottom of Screen Elevation (ft)	Well Diameter (in)	Total Depth (ft)	Ground Surface Elevation (ft)	TOC Elevation (ft)	Measurement Date	Depth to Water (ft bgs)	Groundwater Elevation (ft amsl)
MW143T	TLS	Section II	1/9/2015	2145013.69	677845.92	81.16	71.16	2	75.00	146.16	148.54	7/28/2017	42.52	106.02
MW144T	TLS	Section III	1/5/2015	2147039.63	677418.99	44.03	39.03	2	121.00	160.03	162.57	7/28/2017	86.84	75.73
MW145P	PSDL	Section I	12/22/2014	2145652.18	676201.27	28.16	23.06	2	97.40	120.56	123.66	7/28/2017	46.92	76.74
MW146P	PSDL	Section I	12/18/2014	2146087.42	675609.86	28.89	23.89	2	101.50	125.39	127.96	7/28/2017	51.46	76.50
MW147P	PSDL	Section I	12/15/2014	2146297.06	675369.41	28.79	23.79	2	107.00	130.79	133.53	7/28/2017	57.13	76.40
MW148P	PSDL	Section III	12/19/2014	2147050.09	677377.89	9.94	4.94	2	155.00	159.94	162.43	7/28/2017	87.21	75.22
MW149P	PSDL	Section III	1/8/2015	2147067.84	677168.77	33.00	28.00	2	136.50	164.50	167.23	7/28/2017	91.71	75.52
OC002	OC	Other	1/23/1987	2145307.76	676558.90	79.97	74.97	2	48.50	119.97	123.47	7/28/2017	31.80	91.67
OC003	OC	Section I	1/26/1989	2144973.46	675861.77	85.87	80.87	2	40.06	116.87	120.93	7/28/2017	22.12	98.81
OC004	OC	Section I	1/28/1987	2145379.39	675178.01	82.38	77.38	2	49.00	122.38	126.38	7/28/2017	28.16	98.22
OC005	OC	Section I	6/10/1994	2145490.27	675083.09	100.05	95.05	2	33.65	125.05	128.70	7/28/2017	22.84	105.86
OC006	OC	Section I	6/10/1994	2145487.13	675087.97	84.11	79.11	2	49.37	125.11	128.48	7/28/2017	30.18	98.30
OC007	OC	Section II	6/10/1994	2144128.22	677630.67	105.98	100.98	2	39.58	136.98	140.56	7/28/2017	31.66	108.90
OC008	OC	Section II	1/14/2015	2146102.24	676152.18	96.09	91.09	2	49.65	137.09	140.74	7/28/2017	34.29	106.45
OC009	OC	Section I	1/13/2003	2145538.45	675013.60	95.15	85.15	2	42.89	125.15	128.04	7/28/2017	28.07	99.97
OC010	OC	Section I	1/13/2003	2145345.18	675281.63	88.28	78.28	2	48.79	124.28	127.07	7/28/2017	29.58	97.49
OC011	OC	Section I	1/14/2003	2145149.80	675520.35	86.75	76.75	2	47.95	121.75	124.70	7/28/2017	26.78	97.92
OC012	OC	Section I	1/14/2003	2145202.32	676068.06	93.66	83.66	2	38.50	119.16	122.16	7/28/2017	20.97	101.19
OC013	OC	Section I	1/14/2003	2145437.88	676255.84	92.00	82.00	2	37.78	117.00	119.78	7/28/2017	21.05	98.73
OC014	OC	Section I	1/14/2003	2145768.28	676099.64	82.93	72.93	2	57.67	127.93	130.60	7/28/2017	30.49	100.11
OC015	OC	Section I	1/14/2003	2145936.87	675818.58	88.45	78.45	2	50.32	125.95	128.77	7/28/2017	21.10	107.67
OC016	OC	Section I	1/15/2003	2146183.01	675496.33	91.98	81.98	2	47.88	126.98	129.86	7/28/2017	21.08	108.78
OCS001	OC	Section III	7/20/2005	2146708.70	676757.60	105.95	95.95	2	62.99	155.95	158.94	7/28/2017	32.22	126.72
OCS002	OC	SWMU Area	7/17/2005	2146512.10	676539.50	105.64	95.64	2	56.81	149.64	152.45	7/28/2017	33.71	118.74
OCS003A	OC	SWMU Area	7/12/2005	2146923.80	676444.30	102.49	92.49	2	54.98	144.49	147.47	7/28/2017	20.00	127.47
OCS003B	OC	SWMU Area	7/20/2005	2146922.20	676430.40	119.49	114.49	2	33.33	144.49	147.82	7/28/2017	12.05	135.77
OCS004	OC	SWMU Area	7/17/2005	2146886.90	676012.60	115.84	105.84	2	37.88	140.84	143.72	7/28/2017	19.82	123.90
OCS005	OC	SWMU Area	7/14/2005	2146321.70	676378.20	111.69	101.69	2	52.97	151.69	154.66	7/28/2017	38.82	115.84
OCS006A	OC	SWMU Area	7/10/2005	2146470.60	676111.00	103.45	98.48	2	40.59	136.48	139.07	7/28/2017	18.12	120.95
OCS006B	OC	SWMU Area	7/11/2005	2146079.00	676172.40	116.48	106.48	2	33.30	136.48	139.78	7/28/2017	12.26	127.52
OCS008R	OC	SWMU Area	1/14/2015	2146102.24	676152.18	111.16	101.16	2	55.00	156.16	158.95	7/28/2017	47.80	111.15
OCS011	OC	SWMU Area	7/16/2005	2145478.40	676582.50	116.21	111.21	2	18.13	126.21	129.34	7/28/2017	16.65	112.69
P042B	UBC-A	Other	10/16/1992	2146843.73	676621.06	-0.30	-5.30	4	161.54	152.70	156.24	7/28/2017	81.31	74.93
P042T	TLS	Other	10/20/1992	2146848.18	676607.96	14.70	4.70	4	151.49	152.70	156.19	7/28/2017	81.09	75.10
P112A	TLS-Channel	Section III	12/10/1993	2146416.78	677692.79	24.26	19.26	2	135.19	151.26	154.45	7/28/2017	75.64	78.81
P112B	TLS-Channel	Section III	12/9/1993	2146406.47	677694.36	15.35	10.35	2	144.22	151.35	154.57	7/28/2017	76.83	77.74
P112C	TLS-Channel	Section III	12/9/1993	2146396.15	677696.62	-2.57	-7.57	2	162.15	151.43	154.58	7/28/2017	79.20	75.38
P112D	TLS-Channel	Section III	12/8/1993	2146385.93	677698.94	-14.61	-19.61	2	174.15	151.39	154.54	7/28/2017	79.14	75.40
P114A	TLS-Channel	Other	12/17/1993	2147041.63	676538.83	29.90	25.90	2	123.27	145.90	149.17	7/28/2017	72.76	76.41
P114B	TLS-Channel	Other	12/17/1993	2147050.77	676532.02	13.86	9.86	2	138.42	144.86	148.28	7/28/2017	73.00	75.28
P114C	TLS-Channel	Other	12/16/1993	2147057.66	676526.40	-6.75	-11.75	2	159.50	144.25	147.75	7/28/2017	72.95	74.80
P114D	TLS-Channel	Other	12/15/1993	2147067.69	676520.47	-20.38	-24.83	2	171.99	143.62	147.16	7/28/2017	72.45	74.71
PBC002	UBC-A	Section I	3/12/1985	2145209.70	675139.10	18.95	13.95	2	135.45	146.95	149.40	7/28/2017	68.31	81.09
PBC004	UBC-A	Section II	3/18/1985	2144304.42	676448.26	26.75	22.75	2	108.72	126.75	131.47	7/28/2017	54.64	76.83
PBC006	UBC-A	Other	4/9/1985	2144015.31	676361.21	31.44	27.44	2	83.27	107.44	110.71	7/28/2017	33.76	76.95
PSDL001	TLS	Section III	4/4/1985	2146096.12	677745.34	45.79	40.79	2	116.14	153.79	156.93	7/28/2017	70.89	86.04
PSDL004	SSDL	Other	4/8/1985	2143578.40	677172.76	70.29	66.29	2	36.29	99.29	102.58	7/28/2017	20.84	81.74
PSDL005	TLS	Other	5/2/1985	2144032.62	676360.21	79.86	74.86	2	36.28	107.86	111.14	7/28/2017	26.27	84.87
PSDL007	SSDL	Other	4/10/1985	2144600.41	676088.73	58.80	54.80	2	51.33	101.80	106.13	7/28/2017	23.60	82.53
PSDL012	TLS	Other	4/18/1985	2144461.65	675878.30	78.65	73.65	2	32.43	102.65	106.08	7/28/2017	17.49	88.59
PSDL013	PSDL	Other	4/22/1985	2144417.20	675396.63	41.36	36.36	2	107.17	129.36	143.53	7/28/2017	66.68	76.85
PSDL014	TLS	Other	4/22/1985	2144939.80	675395.46	73.47	68.47	2	74.13	139.47	142.60	7/28/2017	53.04	89.56
PSDL014A	SSDL	Other	4/22/1985	2144934.61	675408.44	49.46	44.46	2	98.32	139.46	142.78	7/28/2017	59.74	83.04
PSDL017	TLS	Section I	4/25/1985	2146236.75	675042.84	65.54	61.54	2	96.62	154.54	158.16	7/28/2017	57.09	101.07
PSDL017A	SSDL	Section I	4/25/1985	2146218.63	675030.37	49.54	44.54	2	113.10	154.54	157.64	7/28/2017	63.02	94.62
PSDL021	TLS	Section I	5/2/1985	2145371.30	675165.35	65.72	61.72	2	63.67	121.72	125.39	7/28/2017	37.70	87.69

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Table 2
Well Construction Details
Pinewood Site

By: BJW
Date: 8/10/2017

Well Identification	Screened Zone	Monitored Area	Installation Date	Easting (ft)	Northing (ft)	Top of Screen Elevation (ft)	Bottom of Screen Elevation (ft)	Well Diameter (in)	Total Depth (ft)	Ground Surface Elevation (ft)	TOC Elevation (ft)	Measurement Date	Depth to Water (ft bgs)	Groundwater Elevation (ft amsl)
PSDL021A	SSDL	Section I	Unknown	2145366.26	675186.96	48.67	43.67	2	80.83	121.67	124.50	7/28/2017	41.82	82.68
SL001	TLS	Section I	8/22/1986	2144949.10	675848.81	76.97	71.97	2	48.32	116.97	120.29	7/28/2017	30.66	89.63
SL002	TLS	Section I	8/21/1986	2145175.72	676042.77	74.00	69.00	2	54.50	120.00	123.50	7/28/2017	27.42	96.08
SL003	TLS	Section I	8/20/1986	2145426.97	676245.56	72.65	67.65	2	53.49	117.65	121.14	7/28/2017	25.63	95.51
SL004	TLS	Other	10/1/1986	2144921.35	676060.75	70.40	65.40	2	41.35	103.40	106.75	7/28/2017	14.49	92.26
SL005	PSDL	Other	10/2/1986	2144933.15	676056.70	45.14	40.14	2	66.97	103.14	107.11	7/28/2017	26.10	81.01
SL006	TLS	Other	10/2/1986	2145310.19	676546.94	73.55	68.55	2	54.27	119.55	122.82	7/28/2017	27.80	95.02
SL007	SSDL	Other	10/2/1986	2145321.47	676555.85	53.80	48.80	2	74.86	119.80	123.66	7/28/2017	48.67	74.99
SL013	PSDL	Section I	1/26/1988	2145388.86	675159.40	37.47	32.47	4	93.51	122.47	125.98	7/28/2017	49.13	76.85
SL014PR	PSDL	Section I	6/23/1994	2145361.80	675262.54	34.16	26.46	4	101.52	124.46	127.98	7/28/2017	51.35	76.63
SL015	PSDL	Section I	2/22/1988	2146205.55	675021.52	31.35	26.35	4	131.96	154.35	158.31	7/28/2017	82.14	76.17
SL016	PSDL	Section I	2/25/1988	2145913.72	675835.36	35.77	30.77	4	98.84	125.77	129.61	7/28/2017	53.34	76.27
SL019SR	SSDL	Section II & III	12/5/1995	2145676.52	677037.01	30.15	25.15	4	130.50	152.15	155.65	7/28/2017	78.22	77.43
SL020SR	SSDL	Section II	7/21/1994	2144846.88	677891.30	55.31	50.31	4	102.65	149.31	152.96	7/28/2017	75.03	77.93
SL021PR	PSDL	Section II	7/7/1994	2144852.82	677890.42	45.93	40.93	4	111.70	148.93	152.63	7/28/2017	74.62	78.01
SL022	PSDL	Section II	1/22/1988	2144028.94	677259.28	49.19	44.19	4	91.03	132.55	135.22	7/28/2017	58.10	77.12
SL023	PSDL	Section II	2/11/1988	2144283.21	676457.69	41.03	36.03	4	95.30	128.03	131.33	7/28/2017	54.44	76.89
SL024	PSDL	Section II	2/8/1988	2144461.41	676415.80	43.87	38.87	2	92.00	127.06	130.87	7/28/2017	54.03	76.84
UBC001	UBC-B	Other	8/8/1986	2144932.47	676068.63	11.58	1.58	2	104.86	103.58	106.44	7/28/2017	31.24	75.20
UBC004	UBC-A	Other	8/3/1986	2145326.58	676539.63	26.84	16.84	2	106.27	119.84	123.11	7/28/2017	46.43	76.68
UBC005	UBC-B	Other	10/1/1986	2144583.91	676092.26	9.53	-0.47	2	107.96	103.53	107.49	7/28/2017	32.28	75.21
UBC006	UBC-B	Section I	9/30/1986	2145192.14	676058.63	4.78	-5.22	2	128.86	119.78	123.64	7/28/2017	48.62	75.02
UBC008	UBC-B	Section I	11/13/1986	2144965.50	675852.82	7.32	-2.68	2	123.47	117.32	120.79	7/28/2017	45.73	75.06
UBC010	UBC-A	Section I	1/31/1991	2145526.45	675019.82	23.59	13.59	4	114.13	124.59	127.72	7/28/2017	51.22	76.50
UBC011	UBC-A	Section I	5/20/1991	2145159.85	675510.49	19.19	14.19	4	111.41	122.19	125.60	7/28/2017	49.14	76.46
UBC012	UBC-A	Section I	5/24/1991	2144986.26	675749.63	30.25	25.25	4	98.42	120.25	123.67	7/28/2017	47.08	76.59
UBC013	UBC-A	Section I	5/13/1991	2145097.12	675972.37	21.45	16.45	4	106.42	119.45	122.87	7/28/2017	46.32	76.55
UBC014	UBC-A	Section I	5/13/1991	2145309.20	676153.15	34.15	24.15	4	98.58	119.15	122.73	7/28/2017	46.09	76.64
UBC015AR	UBC-A	Section II	5/10/1996	2144888.88	676480.75	35.41	30.41	4	100.17	127.41	130.58	7/28/2017	53.76	76.82
UBC016	UBC-A	Section II	3/11/1992	2144589.44	676418.78	30.75	25.75	4	104.32	126.75	130.07	7/28/2017	53.28	76.79
UBC017	UBC-A	Section II	3/8/1995	2144020.04	676587.69	25.67	21.67	4	110.62	129.67	132.29	7/28/2017	55.48	76.81
UBC017B	UBC-B	Section II	3/11/1991	2143920.84	676664.83	9.55	4.55	4	129.69	130.55	134.24	7/28/2017	58.75	75.49
UBC018	UBC-A	Section II	3/2/1995	2143941.36	676841.49	32.07	27.07	4	108.42	132.07	135.49	7/28/2017	58.46	77.03
UBC018B	UBC-B	Section II	12/8/1991	2143971.86	676987.12	14.19	9.19	4	126.39	132.19	135.58	7/28/2017	60.37	75.21
UBC019	UBC-A	Section I	12/9/1992	2145755.85	676107.77	15.30	5.30	4	126.19	125.30	131.77	7/28/2017	55.42	76.35
UBC021	UBC-A	Other	12/11/1992	2146478.22	675814.99	10.60	0.60	4	145.54	142.60	146.14	7/28/2017	70.58	75.56
UBC022AR	UBC-A	Section II	11/30/1995	2145170.83	676632.88	19.54	14.54	4	116.28	127.54	130.82	7/28/2017	54.15	76.67
UBC024	UBC-A	Section II & III	9/31/1992	2145737.24	677290.04	29.70	24.70	4	142.50	163.70	167.20	7/28/2017	90.57	76.63
UBC025	UBC-A	Other	11/10/1992	2147318.91	677569.43	4.90	-0.10	4	178.34	174.40	178.24	7/28/2017	103.09	75.15
UBC026	UBC-A	Section II & III	10/5/1992	2145787.30	677583.70	30.17	25.17	4	135.50	157.17	160.67	7/28/2017	85.33	75.34
UBC027	UBC-A	Other	10/23/1992	2148015.08	676802.14	1.90	-3.10	4	180.40	173.90	177.30	7/28/2017	102.46	74.84
UBC028AR	UBC-A	Other	2/14/1995	2148088.34	676168.88	9.44	4.44	4	170.59	171.44	175.03	7/28/2017	100.55	74.48
UBC029AR	UBC-A	Section II & III	12/11/1995	2145665.03	676998.62	13.10	8.10	4	146.50	151.10	154.60	7/28/2017	79.19	75.41
UBC030	UBC-A	Section II	7/27/1994	2144081.41	677431.10	29.72	24.72	4	112.80	133.72	137.52	7/28/2017	60.36	77.16
UBC031	UBC-A	Section III	6/27/1995	2146567.96	676657.39	13.60	8.60	4	158.50	163.60	167.10	7/28/2017	91.83	75.27
UBC034	UBC-A	Section III	4/27/2001	2146057.30	676620.18	13.17	8.17	4	126.59	131.33	134.76	7/28/2017	59.58	75.18
UBC048	UBC-A	Section III	8/8/1996	2146717.98	676828.60	7.37	2.37	4	166.49	165.37	168.86	7/28/2017	93.58	75.28
UBC049	UBC-A	Section III	8/14/1996	2146857.21	676968.34	4.43	-0.57	4	169.11	165.43	168.54	7/28/2017	93.29	75.25
UBC051	UBC-A	Section II	7/2/1995	2144009.13	677126.78	30.80	25.80	4	109.79	132.80	135.59	7/28/2017	58.61	76.98
UBC052	UBC-A	Section II	7/1/1995	2144148.01	677721.65	24.59	19.59	4	121.36	137.79	140.95	7/28/2017	65.50	75.45
UBC053	UBC-A	Section I	4/20/2001	2145355.84	675278.40	16.97	11.97	4	116.28	124.97	128.25	7/28/2017	51.73	76.52
UBC054	UBC-A	Section III	7/31/2011	2146739.54	677662.61	5.02	0.02	2	155.00	155.02	157.99	7/28/2017	82.79	75.20
UBC055	UBC-A	Other	7/28/2011	2147621.35	675966.24	19.56	14.56	2	141.00	155.56	158.61	7/28/2017	83.93	74.68
UBC056	UBC-A	Other	7/28/2011	2147264.35	675477.52	18.15	13.15	2	148.00	161.15	164.09	7/28/2017	87.73	76.36
UBC057	UBC-A	Section II	1/6/2015	2144733.53	677878.41	21.34	16.34	2	125.00	141.34	144.17	7/28/2017	67.97	76.20
UBC058	UBC-A	Section II	1/7/2015	2145367.95	677812.69	33.72	28.72	2	123.00	151.72	154.66	7/28/2017	77.63	77.03

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Table 2
Well Construction Details
Pinewood Site

By: BJW
Date: 8/10/2017

Well Identification	Screened Zone	Monitored Area	Installation Date	Easting (ft)	Northing (ft)	Top of Screen Elevation (ft)	Bottom of Screen Elevation (ft)	Well Diameter (in)	Total Depth (ft)	Ground Surface Elevation (ft)	TOC Elevation (ft)	Measurement Date	Depth to Water (ft bgs)	Groundwater Elevation (ft amsl)
UBC059	UBC-A	Section I	12/18/2014	2145889.95	675824.07	16.15	11.15	2	117.00	128.15	130.61	7/28/2017	54.19	76.42
UBC060	UBC-A	Section I	12/17/2014	2146166.11	675503.76	10.60	5.60	2	122.00	127.60	130.30	7/28/2017	54.16	76.14
UBC061	UBC-A	Section III	12/18/2014	2147048.18	677383.77	-1.18	-6.18	2	166.00	159.82	162.57	7/28/2017	87.38	75.19
UBC062	UBC-A	Section II	1/8/2015	2145021.48	677844.82	22.03	17.03	2	129.00	146.03	148.57	7/28/2017	71.38	77.19
UBC063	UBC-A	Section III	1/7/2015	2147068.54	677160.07	7.47	2.47	2	162.00	164.47	167.10	7/28/2017	92.02	75.08
WT008	WT	SWMU Area	12/13/1986	2146866.84	676703.90	135.45	130.45	2	26.26	153.45	156.71	7/28/2017	17.85	138.86
WT010	WT	Other	Unknown	2144238.05	675780.12	86.21	81.21	2	26.75	104.71	107.96	7/28/2017	22.12	85.84
WT011	WT	Other	Unknown	2143778.54	675850.11	82.89	77.89	2	23.32	97.89	101.21	7/28/2017	21.94	79.27
WT012	WT	Other	Unknown	2143775.60	675906.65	83.93	78.93	2	21.34	96.93	100.27	7/28/2017	22.55	77.72
WT015	WT	Other	Unknown	2144333.36	676190.45	Unknown	89.26	2	21.31	107.26	110.57	7/28/2017	20.42	90.15
WT016	WT	Other	Unknown	2144589.86	676100.78	94.03	89.03	2	16.87	102.53	105.90	7/28/2017	14.09	91.81
WT026	WT	SWMU Area	6/9/1989	2146447.77	676231.08	132.93	122.93	4	17.14	137.93	140.07	7/28/2017	12.79	127.28
WT027	WT	Section I	3/20/1990	2145628.22	676215.65	112.06	107.06	4	15.00	119.06	122.06	7/28/2017	13.62	108.44
WT030	WT	Other	6/5/1990	2144876.52	676046.13	97.45	92.45	4	13.60	102.95	106.05	7/28/2017	11.91	94.14
WT032	WT	SWMU Area	6/6/1990	2146107.08	675828.25	119.69	114.69	4	26.12	137.69	140.81	7/28/2017	22.38	118.43
WT033	WT	Other	10/5/2010	2147664.93	677392.02	149.90	139.90	2	35.00	174.90	178.13	7/28/2017	32.79	145.34
WT034	WT	Section III	10/5/2010	2147173.26	677208.72	146.17	136.17	2	20.00	156.17	159.27	7/28/2017	19.90	139.37
WT035	WT	Section III	10/5/2010	2147060.42	677012.18	142.32	132.32	2	19.50	151.82	155.09	7/28/2017	22.62	132.47
WT036	WT	SWMU Area	10/6/2010	2146694.05	676677.53	142.20	132.20	2	25.00	157.20	160.03	7/28/2017	20.55	139.48
WT037	WT	SWMU Area	10/6/2010	2146999.15	676698.82	139.24	129.24	2	20.00	149.24	152.30	7/28/2017	14.01	138.29
WT038	WT	SWMU Area	10/6/2010	2146729.78	676397.22	136.07	126.07	2	19.50	145.57	148.60	7/28/2017	15.21	133.39
WT039	WT	SWMU Area	10/5/2010	2146896.46	676008.73	134.93	124.93	2	15.50	140.43	143.37	7/28/2017	17.70	125.67
WT040	WT	SWMU Area	10/5/2010	2146490.35	675691.03	132.55	122.55	2	22.00	144.55	147.67	7/28/2017	16.09	131.58
WT041	WT	Section II	12/9/2014	2144089.73	677467.95	124.30	109.30	2	25.00	134.30	137.22	7/28/2017	26.23	110.99
WT042	WT	Section II	12/8/2014	2143999.12	677087.91	125.79	115.79	2	17.00	132.79	135.68	7/28/2017	16.56	119.12
WT043	WT	Section II	12/5/2014	2144311.52	676437.68	121.15	111.15	2	17.50	128.65	131.68	7/28/2017	11.06	120.62
WT044	WT	Section II	12/5/2014	2144788.19	676452.72	121.47	111.47	2	15.50	126.97	130.00	7/28/2017	12.33	117.67
WT045	WT	Section I	12/4/2014	2145279.55	676165.77	112.33	102.33	2	17.00	119.33	122.37	7/28/2017	20.00	102.37
WT046	WT	Section I	12/4/2014	2145047.32	675931.26	113.51	103.51	2	15.00	118.51	121.79	7/28/2017	13.21	108.58
WT047	WT	Section I	12/4/2014	2145105.11	675577.07	117.54	107.54	2	15.00	122.54	125.87	7/28/2017	8.95	116.92
WT048	WT	Section I	12/4/2014	2145493.62	675078.62	120.04	110.04	2	15.00	125.04	127.75	7/28/2017	16.03	111.72
WT049	WT	Section I	12/8/2014	2143912.07	676716.78	26.50	119.05	2	26.50	130.55	133.70	7/28/2017	DRY	DRY

Notes:
ft = Feet
in = Inches
TOC = Top of Casing
bgs = Below ground surface
amsl = Above mean sea level

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Table 3
Sampled Detection Monitoring Network
Wells - Third Quarter 2017
Pinewood Site

By: CKA
Date: 10/16/2017

DOWNGRADIENT WELLS

Unit	Well Number
TLS	MW005A
	MW006TR
	MW008TR
	MW009A
	MW016TR
	MW019A
	MW020A
	MW022TR
	MW023ATR
	MW024TR
	MW026ATR
	MW027BTR
	MW028A
	MW029
	MW030
	MW031TR
	MW033
	MW041T
	MW042TR
	MW043T
	MW045T
	MW048TR
	MW049T
	MW050T
	MW051T
	MW052T
	MW054T
	MW061T
	MW071T
	MW073T
	MW080TR
	MW089T
	MW101T
	MW114T
	MW115T
	MW116T
	MW117T
	MW127T
	MW131T
	MW132T
	MW133T
	MW134T
	MW142T
	MW143T
	MW144T
	PSDL021
	SL001
	SL002
	SL003

49 Wells

BACKGROUND WELLS

Unit	Well Number
UBC-A	UBC025
	UBC027
	UBC028AR

3 Wells

DOWNGRADIENT WELLS

Unit	Well Number
UBC-A	PBC004
	UBC004
	UBC010
	UBC011
	UBC012
	UBC013
	UBC014
	UBC015AR
	UBC016
	UBC017
	UBC018
	UBC019
	UBC022AR
	UBC024
	UBC026
	UBC029AR
	UBC030
	UBC031
	UBC034
	UBC048
	UBC049
	UBC051
	UBC052
	UBC053
	UBC057
	UBC058
	UBC059
	UBC060
	UBC061
	UBC062
	UBC063

31 WELLS

NEW DETECTION MONITORING PROGRAM WELLS
(to be sampled quarterly for 1 year)

Unit	Well Number
WT	WT048

1 Well

Analytical Parameters:
Detection Monitoring VOCs, RCRA Metals, TDS, chloride, and 1,4-Dioxane (8260B SIM)

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Table 4
Sampling Schedule
Pinewood Site

By: BJW
Date: 10/16/2017

The 2017 Detection Monitoring Program includes four quarterly events. The geologic units monitored in conjunction with the program are assigned to the quarterly events as follows:

Quarter	Unit	Number of Wells Sampled
1	TLS	49
	TLS – upgradient	3
	SSDL	36
	SSDL – upgradient	2
	PSDL	1
	WT	1 (Dry, no sample collected)
Total for Q1		**91**
2	TLS	49
	PSDL	31
	PSDL- upgradient	3
	WT	1 (Dry, no sample collected)
	SSDL	1 (Confirmation sample)
Total for Q2		**84**
3	TLS	49
	UBC-A	31
	UBC-A upgradient	3
	WT	1 (Dry, no sample collected)
Total for Q3		**83**
4	TLS	49
	OC	15
	WT	12
	Appendix IX	5
Total for Q4		**81**
Total for 4 Quarters		**339**

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Table 5
Analytical Parameters
Pinewood Site

By: BJW
Date: 10/16/2017

Parameter	Method Detection Limit (µg/L)	Test Method
Acrolein	13	SW846 8260B
Acrylonitrile	1.2	SW846 8260B
Benzene	0.13	SW846 8260B
Bromodichloromethane	0.33	SW846 8260B
Bromoform	0.66	SW846 8260B
Bromomethane (Methyl bromide)	0.8	SW846 8260B
Carbon tetrachloride	0.14	SW846 8260B
Chlorobenzene	0.33	SW846 8260B
Chloroethane	0.47	SW846 8260B
2-Chloroethylvinylether	0.17	SW846 8260B
Chloroform	0.33	SW846 8260B
Chloromethane (Methyl chloride)	0.35	SW846 8260B
Dibromochloromethane	0.33	SW846 8260B
1,1-Dichloroethane	0.13	SW846 8260B
1,2-Dichloroethane	0.15	SW846 8260B
1,1-Dichloroethene	0.16	SW846 8260B
1,4-Dioxane	0.85	SW846 8260B (SIM)
cis-1,2-Dichloroethene	0.12	SW846 8260B
trans-1,2-Dichloroethene	0.21	SW846 8260B
1,2-Dichloropropane	0.19	SW846 8260B
cis-1,3-Dichloropropene	0.092	SW846 8260B
trans-1,3-Dichloropropene	0.11	SW846 8260B
Ethylbenzene	0.33	SW846 8260B
Methylene chloride	0.33	SW846 8260B
1,1,2,2-Tetrachloroethane	0.16	SW846 8260B
Tetrachloroethene	0.13	SW846 8260B
Toluene	0.33	SW846 8260B
1,1,1-Trichloroethane	0.074	SW846 8260B
1,1,2-Trichloroethane	0.21	SW846 8260B
Trichloroethene	0.18	SW846 8260B
Vinyl chloride	0.054	SW846 8260B
Arsenic	4	SW846 3005A/6010C
Barium	7.5	SW846 3005A/6010C
Cadmium	0.6	SW846 3005A/6010C
Chromium	2.1	SW846 3005A/6010C
Lead	1.9	SW846 3005A/6010C
Nickel	10	SW846 3005A/6010C
Zinc	4.5	SW846 3005A/6010C
Mercury	0.015	SW846 7470A/7470A
Total Dissolved Solids	3.4	SM 2540C-20
Chloride	0.11	EPA 300.0
pH		SM SM 4500-H B-2011 Field
Conductivity	0.717	EPA 120.1
Temperature - Field		SM SM 2550B-2011
Turbidity - Field		EPA 180.1

Notes:
µg/L = Micrograms per liter

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Monitoring Well ID	Zone	Sample Collection Date	Parameter	Result (mg/L)	Applicable Regulatory Level (mg/L)
MW005A	TLS	7/21/2017	Barium	0.069	2[a]
MW005A	TLS	7/21/2017	TDS	190	500[b]
MW006TR	TLS	7/17/2017	Barium	0.054	2[a]
MW006TR	TLS	7/17/2017	TDS	130	500[b]
MW008TR	TLS	7/17/2017	Barium	0.06	2[a]
MW008TR	TLS	7/17/2017	TDS	130	500[b]
MW009A	TLS	7/17/2017	Barium	0.13	2[a]
MW009A	TLS	7/17/2017	Chloride	3.6	250[b]
MW009A	TLS	7/17/2017	TDS	190	500[b]
MW016TR	TLS	7/20/2017	Barium	0.033	2[a]
MW016TR	TLS	7/20/2017	Chloride	3.9	250[b]
MW016TR	TLS	7/20/2017	TDS	230	500[b]
MW019A	TLS	7/21/2017	Barium	0.077	2[a]
MW019A	TLS	7/21/2017	TDS	200	500[b]
MW020A	TLS	7/21/2017	Barium	0.026	2[a]
MW020A	TLS	7/21/2017	Chloride	3.4	250[b]
MW020A	TLS	7/21/2017	TDS	280	500[b]
MW022TR	TLS	7/24/2017	Barium	0.045	2[a]
MW022TR	TLS	7/24/2017	Chloride	3	250[b]
MW022TR	TLS	7/24/2017	TDS	150	500[b]
MW023ATR	TLS	7/24/2017	Barium	0.033	2[a]
MW023ATR	TLS	7/24/2017	Chloride	3.2	250[b]
MW023ATR	TLS	7/24/2017	TDS	150	500[b]
MW024TR	TLS	7/24/2017	Chloride	5.3	250[b]
MW024TR	TLS	7/24/2017	TDS	170	500[b]
MW026ATR	TLS	7/24/2017	Barium	0.034	2[a]
MW026ATR	TLS	7/24/2017	Chloride	5.6	250[b]
MW026ATR	TLS	7/24/2017	Chromium	0.024	0.1[a]
MW026ATR	TLS	7/24/2017	TDS	340	500[b]
MW027BTR	TLS	7/24/2017	Chloride	2.8	250[b]
MW027BTR	TLS	7/24/2017	TDS	200	500[b]
MW028A	TLS	7/24/2017	Chloride	2.9	250[b]
MW028A	TLS	7/24/2017	Chromium	0.011	0.1[a]
MW028A	TLS	7/24/2017	TDS	170	500[b]
MW029	TLS	7/25/2017	Chloride	6.4	250[b]
MW029	TLS	7/25/2017	TDS	380	500[b]
MW029	TLS	7/25/2017	Zinc	0.02	5[b]
MW030	TLS	7/25/2017	Chloride	19	250[b]
MW030	TLS	7/25/2017	TDS	270	500[b]
MW031TR	TLS	7/20/2017	Barium	0.094	2[a]
MW031TR	TLS	7/20/2017	Chloride	2.2	250[b]
MW031TR	TLS	7/20/2017	TDS	140	500[b]
MW033	TLS	7/20/2017	Barium	0.09	2[a]
MW033	TLS	7/20/2017	Chloride	2	250[b]
MW033	TLS	7/20/2017	TDS	87	500[b]
MW041T	TLS	7/18/2017	Barium	0.07	2[a]
MW041T	TLS	7/18/2017	TDS	160	500[b]
MW042TR	TLS	7/18/2017	Barium	0.059	2[a]
MW042TR	TLS	7/18/2017	TDS	170	500[b]
MW043T	TLS	7/18/2017	Barium	0.061	2[a]
MW043T	TLS	7/18/2017	Chloride	5.2	250[b]
MW043T	TLS	7/18/2017	TDS	280	500[b]
MW045T	TLS	7/18/2017	Barium	0.045	2[a]
MW045T	TLS	7/18/2017	Chloride	8.4	250[b]
MW045T	TLS	7/18/2017	TDS	260	500[b]

Monitoring Well ID	Zone	Sample Collection Date	Parameter	Result (mg/L)	Applicable Regulatory Level (mg/L)
MW048TR	TLS	7/20/2017	Barium	0.1	2[a]
MW048TR	TLS	7/20/2017	TDS	120	500[b]
MW049T	TLS	7/20/2017	Barium	0.064	2[a]
MW049T	TLS	7/20/2017	TDS	65	500[b]
MW050T	TLS	7/24/2017	Barium	0.063	2[a]
MW050T	TLS	7/24/2017	TDS	110	500[b]
MW051T	TLS	7/24/2017	Barium	0.062	2[a]
MW051T	TLS	7/24/2017	TDS	120	500[b]
MW052T	TLS	7/25/2017	Barium	0.028	2[a]
MW052T	TLS	7/25/2017	Chloride	3.7	250[b]
MW052T	TLS	7/25/2017	TDS	200	500[b]
MW054T	TLS	7/25/2017	Chloride	3.7	250[b]
MW054T	TLS	7/25/2017	TDS	220	500[b]
MW061T	TLS	7/26/2017	Barium	0.026	2[a]
MW061T	TLS	7/26/2017	Chloride	16	250[b]
MW061T	TLS	7/26/2017	TDS	400	500[b]
MW071T	TLS	7/18/2017	Barium	0.11	2[a]
MW071T	TLS	7/18/2017	Chloride	2.5	250[b]
MW071T	TLS	7/18/2017	TDS	150	500[b]
MW073T	TLS	7/19/2017	Barium	0.16	2[a]
MW073T	TLS	7/19/2017	Chloride	4.5	250[b]
MW073T	TLS	7/19/2017	TDS	170	500[b]
MW073T	TLS	7/19/2017	Zinc	0.032	5[b]
MW080TR	TLS	7/26/2017	Barium	0.088	2[a]
MW080TR	TLS	7/26/2017	Chloride	2.7	250[b]
MW080TR	TLS	7/26/2017	TDS	130	500[b]
MW089T	TLS	7/21/2017	Barium	0.14	2[a]
MW089T	TLS	7/21/2017	Chloride	2.6	250[b]
MW089T	TLS	7/21/2017	TDS	180	500[b]
MW101T	TLS	7/28/2017	Barium	0.05	2[a]
MW101T	TLS	7/28/2017	Chloride	2	250[b]
MW101T	TLS	7/28/2017	TDS	140	500[b]
MW114T	TLS	7/26/2017	Barium	0.11	2[a]
MW114T	TLS	7/26/2017	Chloride	2.4	250[b]
MW114T	TLS	7/26/2017	TDS	140	500[b]
MW115T	TLS	7/26/2017	Barium	0.15	2[a]
MW115T	TLS	7/26/2017	Chloride	5.1	250[b]
MW115T	TLS	7/26/2017	TDS	180	500[b]
MW116T	TLS	7/26/2017	Barium	0.078	2[a]
MW116T	TLS	7/26/2017	Chloride	2	250[b]
MW116T	TLS	7/26/2017	TDS	100	500[b]
MW117T	TLS	7/26/2017	Barium	0.1	2[a]
MW117T	TLS	7/26/2017	Chloride	2.2	250[b]
MW117T	TLS	7/26/2017	TDS	150	500[b]
MW127T	TLS	7/21/2017	Chloride	2.1	250[b]
MW127T	TLS	7/21/2017	TDS	170	500[b]
MW131T	TLS	7/20/2017	Barium	0.026	2[a]
MW131T	TLS	7/20/2017	Chloride	2	250[b]
MW131T	TLS	7/20/2017	TDS	130	500[b]
MW132T	TLS	7/20/2017	Barium	0.082	2[a]
MW132T	TLS	7/20/2017	TDS	110	500[b]
MW133T	TLS	7/20/2017	Barium	0.11	2[a]
MW133T	TLS	7/20/2017	Chloride	2.5	250[b]
MW133T	TLS	7/20/2017	Chromium	0.01	0.1[a]
MW133T	TLS	7/20/2017	TDS	160	500[b]

Monitoring Well ID	Zone	Sample Collection Date	Parameter	Result (mg/L)	Applicable Regulatory Level (mg/L)
MW134T	TLS	7/20/2017	Barium	0.16	2[a]
MW134T	TLS	7/20/2017	Chloride	2.7	250[b]
MW134T	TLS	7/20/2017	TDS	210	500[b]
MW142T	TLS	7/20/2017	Barium	0.059	2[a]
MW142T	TLS	7/20/2017	TDS	160	500[b]
MW143T	TLS	7/21/2017	Barium	0.081	2[a]
MW143T	TLS	7/21/2017	TDS	150	500[b]
MW144T	TLS	7/27/2017	Barium	0.21	2[a]
MW144T	TLS	7/27/2017	Chloride	2.1	250[b]
MW144T	TLS	7/27/2017	TDS	130	500[b]
PBC004	UBC	7/24/2017	Barium	0.068	2[a]
PBC004	UBC	7/24/2017	Chloride	2.6	250[b]
PBC004	UBC	7/24/2017	TDS	110	500[b]
PSDL021	TLS	7/18/2017	Barium	0.1	2[a]
PSDL021	TLS	7/18/2017	TDS	130	500[b]
SL001	TLS	7/18/2017	Barium	0.025	2[a]
SL001	TLS	7/18/2017	Chloride	11	250[b]
SL001	TLS	7/18/2017	TDS	240	500[b]
SL002	TLS	7/18/2017	Barium	0.025	2[a]
SL002	TLS	7/18/2017	Chloride	5.1	250[b]
SL002	TLS	7/18/2017	TDS	340	500[b]
SL003	TLS	7/18/2017	Barium	0.1	2[a]
SL003	TLS	7/18/2017	Chloride	3.3	250[b]
SL003	TLS	7/18/2017	TDS	170	500[b]
UBC004	UBC	7/19/2017	Arsenic	0.03	0.1[a]
UBC004	UBC	7/19/2017	Barium	0.14	2[a]
UBC004	UBC	7/19/2017	Chloride	2.7	250[b]
UBC004	UBC	7/19/2017	TDS	120	500[b]
UBC010	UBC	7/18/2017	Barium	0.16	2[a]
UBC010	UBC	7/18/2017	Chloride	2.3	250[b]
UBC010	UBC	7/18/2017	TDS	140	500[b]
UBC011	UBC	7/18/2017	Barium	0.083	2[a]
UBC011	UBC	7/18/2017	Chloride	2.5	250[b]
UBC011	UBC	7/18/2017	TDS	170	500[b]
UBC012	UBC	7/19/2017	Barium	0.07	2[a]
UBC012	UBC	7/19/2017	Chloride	2.6	250[b]
UBC012	UBC	7/19/2017	TDS	120	500[b]
UBC013	UBC	7/19/2017	Barium	0.084	2[a]
UBC013	UBC	7/19/2017	Chloride	2.5	250[b]
UBC013	UBC	7/19/2017	TDS	120	500[b]
UBC014	UBC	7/19/2017	Barium	0.067	2[a]
UBC014	UBC	7/19/2017	Chloride	2.7	250[b]
UBC014	UBC	7/19/2017	TDS	98	500[b]
UBC015AR	UBC	7/21/2017	Barium	0.12	2[a]
UBC015AR	UBC	7/21/2017	Chloride	2.6	250[b]
UBC015AR	UBC	7/21/2017	TDS	99	500[b]
UBC016	UBC	7/24/2017	Barium	0.073	2[a]
UBC016	UBC	7/24/2017	Chloride	2.7	250[b]
UBC016	UBC	7/24/2017	TDS	110	500[b]
UBC017	UBC	7/25/2017	Barium	0.074	2[a]
UBC017	UBC	7/25/2017	Chloride	2.6	250[b]
UBC017	UBC	7/25/2017	TDS	81	500[b]
UBC018	UBC	7/25/2017	Barium	0.073	2[a]
UBC018	UBC	7/25/2017	Chloride	2.6	250[b]
UBC018	UBC	7/25/2017	TDS	92	500[b]

Monitoring Well ID	Zone	Sample Collection Date	Parameter	Result (mg/L)	Applicable Regulatory Level (mg/L)
UBC019	UBC	7/28/2017	Barium	0.1	2[a]
UBC019	UBC	7/28/2017	Chloride	2.4	250[b]
UBC019	UBC	7/28/2017	TDS	70	500[b]
UBC022AR	UBC	7/20/2017	Barium	0.079	2[a]
UBC022AR	UBC	7/20/2017	Chloride	2.6	250[b]
UBC022AR	UBC	7/20/2017	TDS	120	500[b]
UBC024	UBC	7/21/2017	Barium	0.089	2[a]
UBC024	UBC	7/21/2017	Chloride	2.7	250[b]
UBC024	UBC	7/21/2017	TDS	120	500[b]
UBC025	UBC	7/27/2017	Barium	0.089	2[a]
UBC025	UBC	7/27/2017	Chloride	2.9	250[b]
UBC025	UBC	7/27/2017	TDS	130	500[b]
UBC026	UBC	7/21/2017	Barium	0.087	2[a]
UBC026	UBC	7/21/2017	Chloride	2.9	250[b]
UBC026	UBC	7/21/2017	TDS	150	500[b]
UBC027	UBC	7/27/2017	Barium	0.085	2[a]
UBC027	UBC	7/27/2017	Chloride	2.8	250[b]
UBC027	UBC	7/27/2017	TDS	97	500[b]
UBC028AR	UBC	7/27/2017	Barium	0.04	2[a]
UBC028AR	UBC	7/27/2017	Chloride	3.1	250[b]
UBC028AR	UBC	7/27/2017	TDS	160	500[b]
UBC029AR	UBC	7/24/2017	Barium	0.059	2[a]
UBC029AR	UBC	7/24/2017	Chloride	2.7	250[b]
UBC029AR	UBC	7/24/2017	TDS	56	500[b]
UBC030	UBC	7/25/2017	Barium	0.056	2[a]
UBC030	UBC	7/25/2017	Chloride	2.8	250[b]
UBC030	UBC	7/25/2017	TDS	120	500[b]
UBC031	UBC	7/25/2017	Barium	0.069	2[a]
UBC031	UBC	7/25/2017	Chloride	2.8	250[b]
UBC031	UBC	7/25/2017	TDS	110	500[b]
UBC034	UBC	7/20/2017	Chloride	2.6	250[b]
UBC034	UBC	7/20/2017	TDS	140	500[b]
UBC048	UBC	7/26/2017	Barium	0.083	2[a]
UBC048	UBC	7/26/2017	Chloride	2.7	250[b]
UBC048	UBC	7/26/2017	TDS	120	500[b]
UBC049	UBC	7/26/2017	Barium	0.094	2[a]
UBC049	UBC	7/26/2017	Chloride	2.7	250[b]
UBC049	UBC	7/26/2017	TDS	110	500[b]
UBC051	UBC	7/25/2017	Barium	0.071	2[a]
UBC051	UBC	7/25/2017	Chloride	2.2	250[b]
UBC051	UBC	7/25/2017	TDS	66	500[b]
UBC052	UBC	7/25/2017	Barium	0.062	2[a]
UBC052	UBC	7/25/2017	Chloride	2.9	250[b]
UBC052	UBC	7/25/2017	TDS	100	500[b]
UBC053	UBC	7/18/2017	Barium	0.078	2[a]
UBC053	UBC	7/18/2017	Chloride	2.8	250[b]
UBC053	UBC	7/18/2017	TDS	100	500[b]
UBC057	UBC	7/27/2017	Barium	0.094	2[a]
UBC057	UBC	7/27/2017	Chloride	2.5	250[b]
UBC057	UBC	7/27/2017	TDS	130	500[b]
UBC058	UBC	7/27/2017	Barium	0.073	2[a]
UBC058	UBC	7/27/2017	Chloride	2.6	250[b]
UBC058	UBC	7/27/2017	TDS	110	500[b]

Monitoring Well ID	Zone	Sample Collection Date	Parameter	Result (mg/L)	Applicable Regulatory Level (mg/L)
UBC059	UBC	7/26/2017	Barium	0.083	2[a]
UBC059	UBC	7/26/2017	Chloride	2.6	250[b]
UBC059	UBC	7/26/2017	TDS	96	500[b]
UBC060	UBC	7/27/2017	Barium	0.086	2[a]
UBC060	UBC	7/27/2017	Chloride	2.3	250[b]
UBC060	UBC	7/27/2017	TDS	100	500[b]
UBC061	UBC	7/27/2017	Barium	0.071	2[a]
UBC061	UBC	7/27/2017	Chloride	2.8	250[b]
UBC061	UBC	7/27/2017	TDS	120	500[b]
UBC062	UBC	7/28/2017	Barium	0.09	2[a]
UBC062	UBC	7/28/2017	Chloride	2.8	250[b]
UBC062	UBC	7/28/2017	TDS	110	500[b]
UBC063	UBC	7/27/2017	Barium	0.089	2[a]
UBC063	UBC	7/27/2017	Chloride	2.8	250[b]
UBC063	UBC	7/27/2017	TDS	86	500[b]

Notes:
mg/L = milligrams per liter
a = Maximum Contaminant Level
b = Secondary Drinking Water Standard
TDS = Total Dissolved Solids
0.011 Bold and shaded value indicates result equals or exceeds regulatory limits.

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SMITH+GARDNER

Table 7
Pinewood Site
Statistical Analysis Summary

By: BJW
Date: 10/20/2017

Statistical Factor	ZONE	
	TLS	UBC-A
Inter-well Analysis (upgradient versus downgradient):		
Wells exceeding the upgradient prediction limits. (Parameter)	MW024T (pH) MW029 (pH) MW031TR (pH) MW054T (pH) MW142T (pH)	UBC004 (Arsenic)
Intra-well Analysis (each well compared to its own history):		
Wells exceeding the prediction limit. (Parameter)	None	UBC004 (Arsenic)
Location of Data	**Appendix D**	**Appendix E**

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FIGURES

2017 Third Quarter Detection Monitoring Program Report
Pinewood Site
SCD 070 375 985

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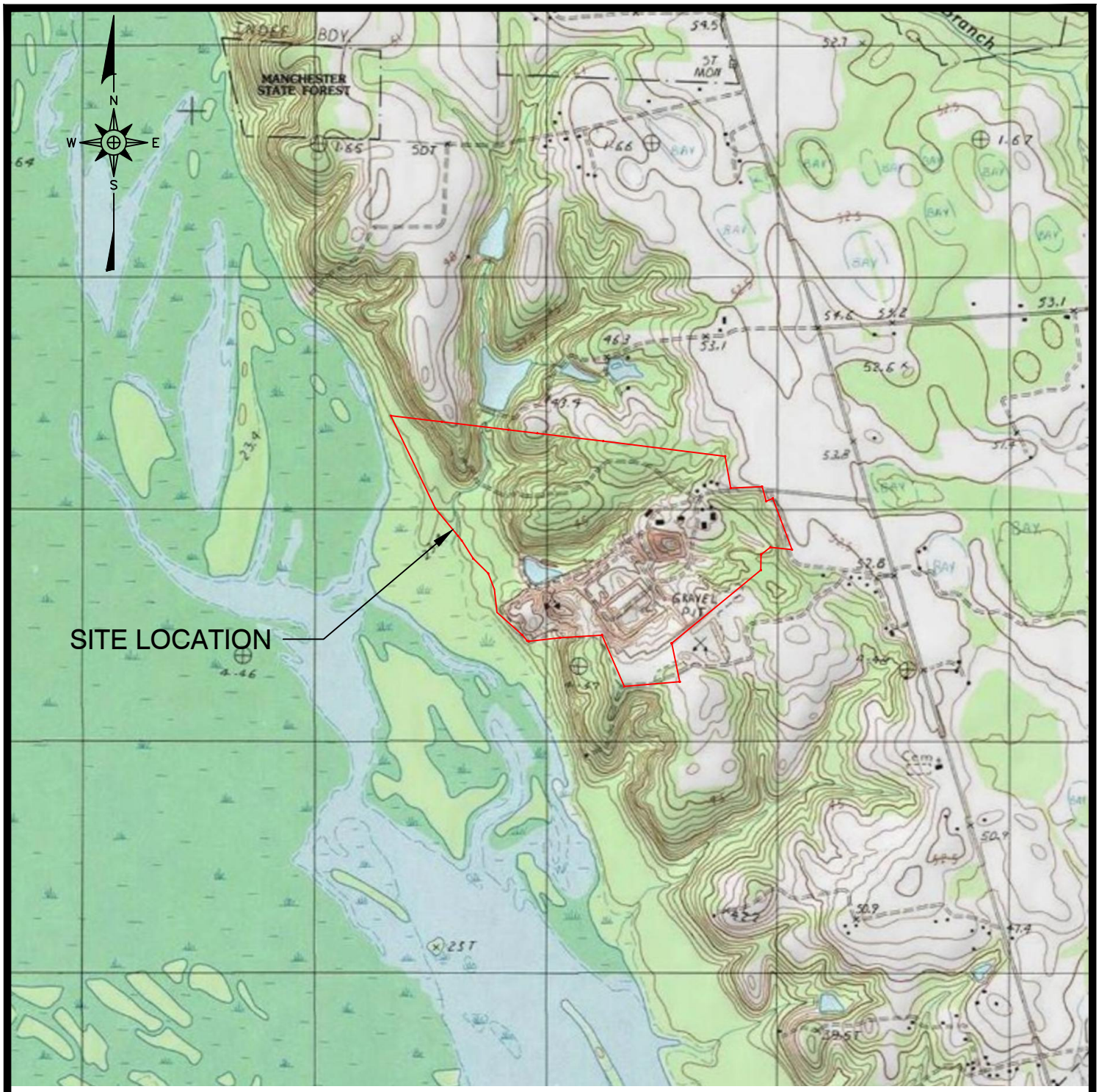

REFERENCE:
BACKGROUND TOPOGRAPHIC IMAGERY FROM USGS 7.5 MINUTE QUADRANGLE "LONESTAR,SC"

0 2000' 4000'

PREPARED FOR:

THIRD QUARTER 2017 DETECTION MONITORING REPORT
PINEWOOD SITE
PINEWOOD, SOUTH CAROLINA
SITE LOCATION MAP

PREPARED BY:

SMITH+GARDNER
14 N. Boylan Avenue, Raleigh NC 27603 | 919.828.0577

DRAWN:	APPROVED:	SCALE:	DATE:	PROJECT NO.:	FIGURE NO.:	FILE NAME:
BJW	CKA	AS SHOWN	Aug 2017	PINEWOOD 12-4	1	PINE-A0196

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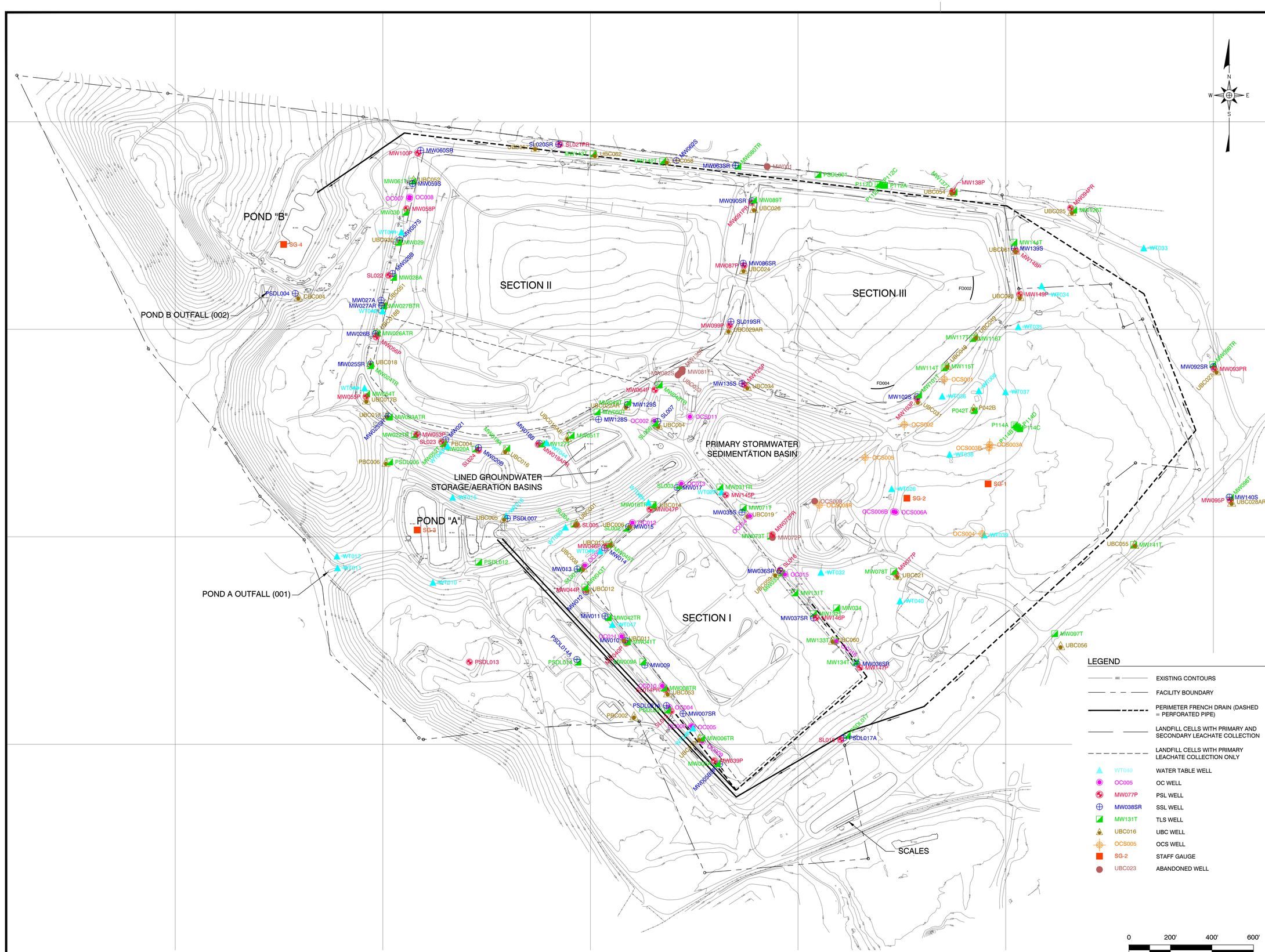

LEGEND

- EXISTING CONTOURS
- FACILITY BOUNDARY
- PERIMETER FRENCH DRAIN (DASHED = PERFORATED PIPE)
- LANDFILL CELLS WITH PRIMARY AND SECONDARY LEACHATE COLLECTION
- LANDFILL CELLS WITH PRIMARY LEACHATE COLLECTION ONLY
- WT040 — WATER TABLE WELL
- OC005 — OC WELL
- MW077P — PSL WELL
- MW038SR — SSL WELL
- MW131T — TLS WELL
- UBC016 — UBC WELL
- OCS005 — OCS WELL
- SG-2 — STAFF GAUGE
- UBC023 — ABANDONED WELL

PREPARED FOR:

PINEWOOD SITE
PINEWOOD,
SOUTH CAROLINA

PREPARED BY:

SMITH+ GARDNER
ENGINEERS
14 N. Boylan Avenue, Raleigh NC 27603 | 919.828.0577

SEAL

SEAL

REV.	DATE	DESCRIPTION

PROJECT TITLE:

THIRD QUARTER 2017 DETECTION MONITORING PROGRAM REPORT

DRAWING TITLE:

SITE MAP WITH WELL LOCATIONS

DESIGNED: BJW	PROJECT NO: PINEWOOD 12-4
DRAWN: BJW	SCALE: AS SHOWN
APPROVED: CKA	DATE: SEPTEMBER 2017
FILENAME: PINE-D0226	
SHEET NUMBER:	DRAWING NUMBER: **FIG. 2**

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FIGURE 3
GENERALIZED STRATIGRAPHIC COLUMN OF THE PINEWOOD SITE
(Adapted from GEL)

		Lithologic Description	Monitoring Zone		Thickness (approx. feet)	Horizontal Hydraulic Conductivity (cm/sec)	Depositional Environment	Comments
PLIO-PLEISTOCENE	UNNAMED	Varigated clay, locally containing sand lenses and quartz pebbles Locally includes claystone fill. Undifferentiated sand, clay, and quartz pebble horizons, Water Table	WT		0-40	8.8×10^{-6} - 1.1×10^{-2}	Fluvial and marine terrace	Removed over much of the site, drained in some areas by French drains
PALEOCENE / BLACK MINGO GROUP / WILLIAMSBURG FORMATION	LANG SYNE MEMBER	Upper horizon: fractured Opaline Claystone, locally containing sand lenses. Lower horizon: massive Opaline Claystone, locally fractured.	OC		up to 120	4×10^{-6}	Back barrier bay / lagoon / tidal inlet	Aquitard underlying landfill, potential groundwater flow due to secondary porosity through joints and fractures
		Fine, silty sand to sandy clay, Transitional Lang Syne	TLS		2-10 except in TLS Channel where 10-30	1.3×10^{-5} - 3.5×10^{-5}	Transitional tidal creek	Shallowest monitored zone in the detection monitoring program beneath landfill; horizontal flow rates ~ 1 ft/yr.
		Silty clay			0-19	4.2×10^{-7} - 9.1×10^{-5}	Low energy tidal	Absent in area of channel on eastern side of site
RHEMS FORMATION	SAWDUST LANDING MEMBER	Interbedded sand to sandy clay, Secondary Sawdust Landing	SSDL		0-20	1.7×10^{-5} - 3.5×10^{-4}	Tidal and fluvial prograding deltaic sediments Fining upward sequence	Absent in area of channel on eastern side of site, monitored zone beneath landfill; horizontal flow rates ~ 2.5 ft/yr.
		Blue-green silts & clays				10^{-6} - 10^{-5}		Absent in area of channel on eastern side of site, confining unit absent in area of channel
		Continuous medium to coarse sand to gravel, Primary Sawdust Landing	PSDL		0-25	Vertical downward flow into UBC-A 3.3×10^{-4} - 3.3×10^{-3}		Absent in area of channel on eastern side of site, monitored zone beneath landfill; horizontal flow rates ~ 32 ft/yr, PSDL - discharges to Lake Marion.
UPPER CRETACEOUS	UPPER BLACK CREEK	Massive gray to purple clay to bluish gray clayey silt				8.2×10^{-8} - 1.2×10^{-7}	Lower delta plain, near shore marine, low evergy fluvial	Absent in area of channel on eastern side of site, semi-continuous
		Interbedded, black-bluish gray sand, Upper Black Creek - A	UBC-A		5-20	3.5×10^{-5} - 1.8×10^{-3}	Upper delta plain fluvial environment	Higher hydraulic conductivities occur in the southern and eastern portions of the site; monitored zone beneath the landfill.
		Gray silty clay to clay			≤10	1×10^{-7} - 1×10^{-5}	Marsh, back barrier	
		Laminated massive sands, Upper Black Creek - B	UBC-B		30-35	Vertical upward flow into UBC-A	Upper delta plain fluvial environment	Not routinely monitored due to upward head and four overlying zones which are monitored.
		Middendorf Formation ~ 600' below ground surface						

PREPARED FOR:

THIRD QUARTER 2017 DETECTION MONITORING REPORT
PINEWOOD SITE
PINEWOOD, SOUTH CAROLINA
GENERALIZED STRATIGRAPHIC COLUMN

DRAWN:	APPROVED:	SCALE:	DATE:
BJW	CKA	N.T.S.	AUG 2017

PROJECT NO.:	FIGURE NO.:	FILENAME:
PINEWOOD 12-4	3	PINE-A0197

PREPARED BY:

SMITH+GARDNER
14 N. Boylan Avenue, Raleigh NC 27603 | 919.828.0577

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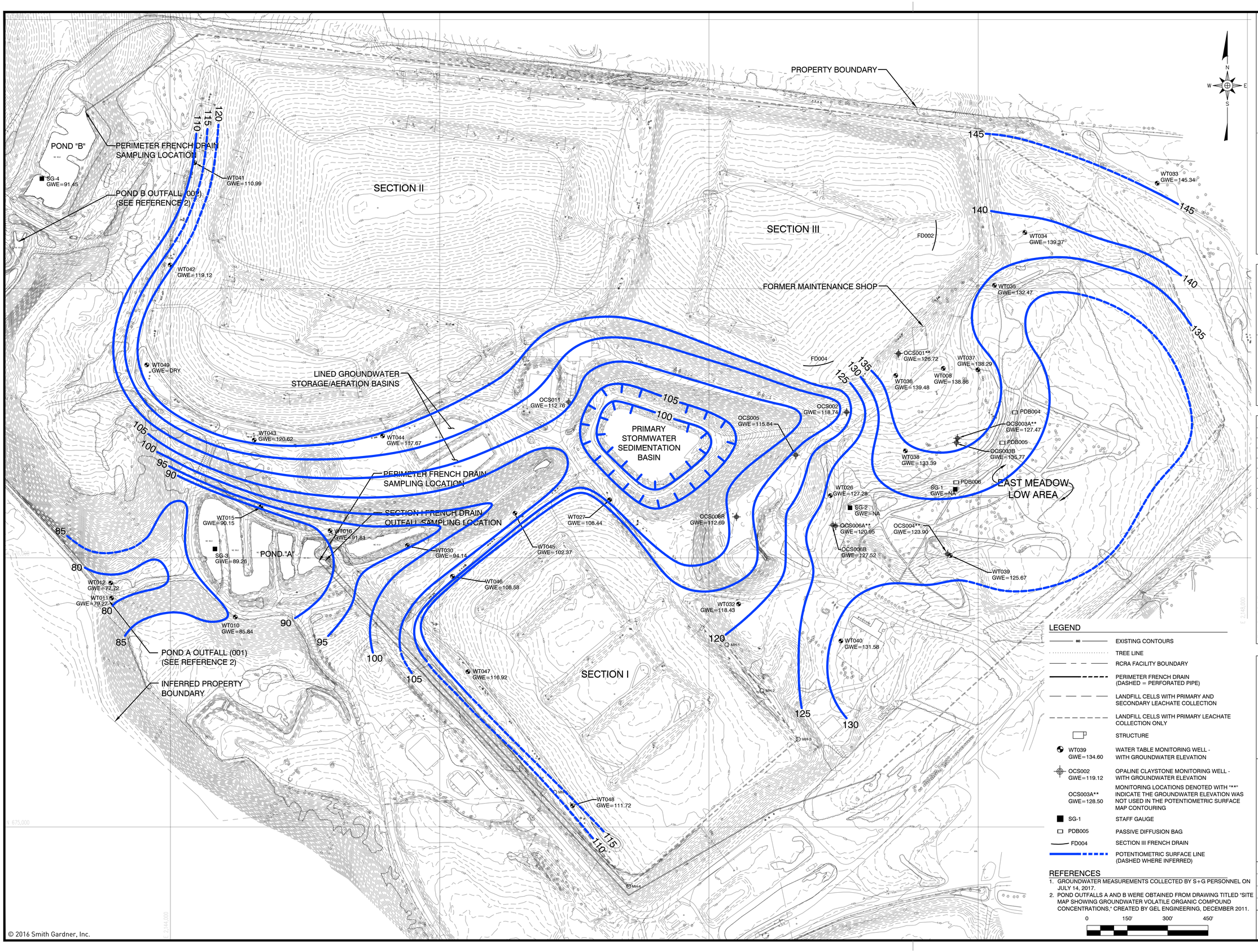

LEGEND

- EXISTING CONTOURS
- TREE LINE
- RCRA FACILITY BOUNDARY
- PERIMETER FRENCH DRAIN (DASHED = PERFORATED PIPE)
- LANDFILL CELLS WITH PRIMARY AND SECONDARY LEACHATE COLLECTION
- LANDFILL CELLS WITH PRIMARY LEACHATE COLLECTION ONLY
- STRUCTURE
- WT039 GWE=134.60 — WATER TABLE MONITORING WELL - WITH GROUNDWATER ELEVATION
- OCS002 GWE=119.12 — OPALINE CLAYSTONE MONITORING WELL - WITH GROUNDWATER ELEVATION
- OCS003A** GWE=128.50 — MONITORING LOCATIONS DENOTED WITH "**" INDICATE THE GROUNDWATER ELEVATION WAS NOT USED IN THE POTENTIOMETRIC SURFACE MAP CONTOURING
- SG-1 — STAFF GAUGE
- PDB005 — PASSIVE DIFFUSION BAG
- FD004 — SECTION III FRENCH DRAIN
- POTENTIOMETRIC SURFACE LINE (DASHED WHERE INFERRED)

REFERENCES

1. GROUNDWATER MEASUREMENTS COLLECTED BY S+G PERSONNEL ON JULY 14, 2017.
2. POND OUTFALLS A AND B WERE OBTAINED FROM DRAWING TITLED "SITE MAP SHOWING GROUNDWATER VOLATILE ORGANIC COMPOUND CONCENTRATIONS," CREATED BY GEL ENGINEERING, DECEMBER 2011.

0 150' 300' 450'

PREPARED FOR:

PINEWOOD SITE
PINEWOOD
SOUTH CAROLINA

PREPARED BY:

SMITH+ GARDNER
ENGINEERS
14 N. Boylan Avenue, Raleigh NC 27603 | 919.828.0577

SEAL

SEAL

REV.	DATE	DESCRIPTION

PROJECT TITLE:

THIRD QUARTER 2017 DETECTION MONITORING PROGRAM REPORT

DRAWING TITLE:

POTENTIOMETRIC SURFACE MAP WATER TABLE JULY 2017

DESIGNED: BJW	PROJECT NO: PINEWOOD 12-4
DRAWN: BJW	SCALE: AS SHOWN
APPROVED: CKA	DATE: SEPTEMBER 2017
FILENAME: PINE-D0227	
SHEET NUMBER:	DRAWING NUMBER: FIG. 4

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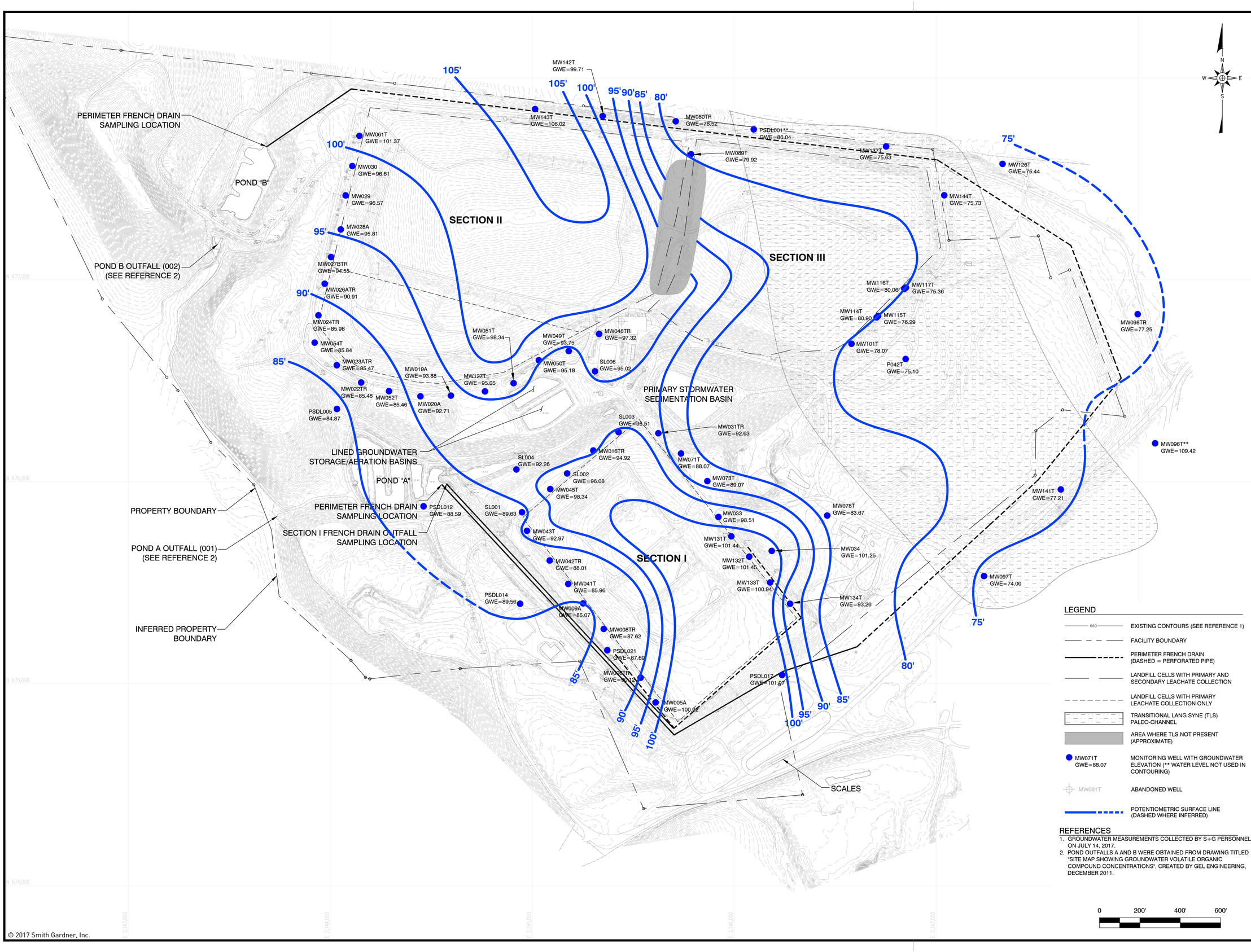

LEGEND

- EXISTING CONTOURS (SEE REFERENCE 1)
- FACILITY BOUNDARY
- PERIMETER FRENCH DRAIN (DASHED = PERFORATED PIPE)
- LANDFILL CELLS WITH PRIMARY AND SECONDARY LEACHATE COLLECTION
- LANDFILL CELLS WITH PRIMARY LEACHATE COLLECTION ONLY
- TRANSITIONAL LANG SYNE (TLS) PALEO-CHANNEL
- AREA WHERE TLS NOT PRESENT (APPROXIMATE)
- MW071T GWE=88.07 — MONITORING WELL WITH GROUNDWATER ELEVATION (** WATER LEVEL NOT USED IN CONTOURING)
- MW081T — ABANDONED WELL
- POTENTIOMETRIC SURFACE LINE (DASHED WHERE INFERRED)

REFERENCES

1. GROUNDWATER MEASUREMENTS COLLECTED BY S+G PERSONNEL ON JULY 14, 2017.
2. POND OUTFALLS A AND B WERE OBTAINED FROM DRAWING TITLED "SITE MAP SHOWING GROUNDWATER VOLATILE ORGANIC COMPOUND CONCENTRATIONS", CREATED BY GEL ENGINEERING, DECEMBER 2011.

0 200' 400' 600'

PREPARED FOR:

PINEWOOD SITE
PINEWOOD,
SOUTH CAROLINA

PREPARED BY:

SMITH+ GARDNER
ENGINEERS
14 N. Boylan Avenue, Raleigh NC 27603 | 919.828.0577

SEAL

SEAL

REV.	DATE	DESCRIPTION

PROJECT TITLE:

THIRD QUARTER 2017 DETECTION MONITORING PROGRAM REPORT

DRAWING TITLE:

POTENTIOMETRIC SURFACE MAP TRANSITIONAL LANG SYNE JULY 2017

DESIGNED: BJW	PROJECT NO: PINEWOOD 12-4
DRAWN: BJW	SCALE: AS SHOWN
APPROVED: CKA	DATE: SEPTEMBER 2017
FILENAME: PINE-D0228	
SHEET NUMBER:	DRAWING NUMBER: FIG. 5

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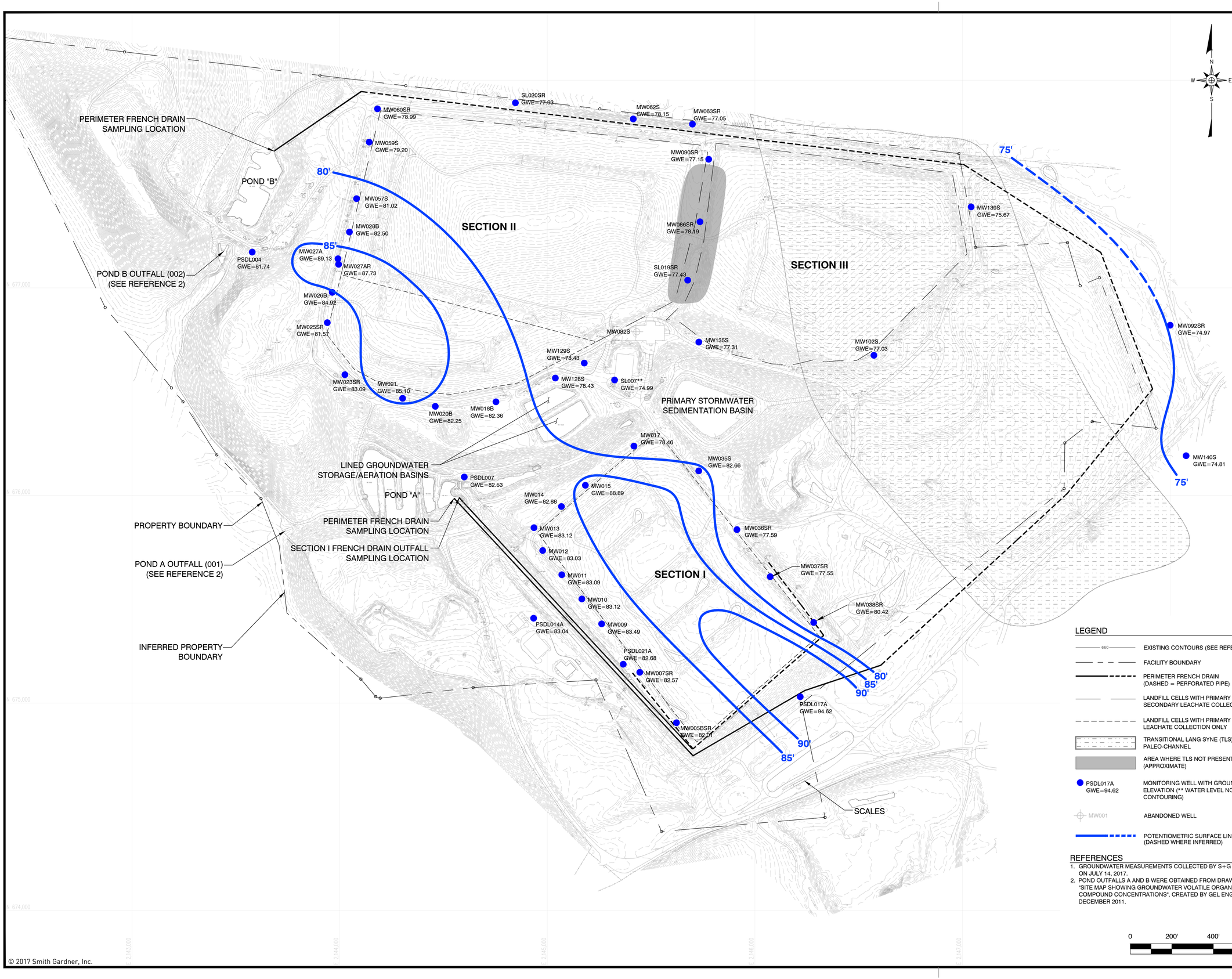

LEGEND

- EXISTING CONTOURS (SEE REFERENCE 1)
- FACILITY BOUNDARY
- PERIMETER FRENCH DRAIN (DASHED = PERFORATED PIPE)
- LANDFILL CELLS WITH PRIMARY AND SECONDARY LEACHATE COLLECTION
- LANDFILL CELLS WITH PRIMARY LEACHATE COLLECTION ONLY
- TRANSITIONAL LANG SYNE (TLS) PALEO-CHANNEL
- AREA WHERE TLS NOT PRESENT (APPROXIMATE)
- PSDL017A GWE=94.62 — MONITORING WELL WITH GROUNDWATER ELEVATION (** WATER LEVEL NOT USED IN CONTOURING)
- MW001 — ABANDONED WELL
- POTENTIOMETRIC SURFACE LINE (DASHED WHERE INFERRED)

REFERENCES

1. GROUNDWATER MEASUREMENTS COLLECTED BY S+G PERSONNEL ON JULY 14, 2017.
2. POND OUTFALLS A AND B WERE OBTAINED FROM DRAWING TITLED "SITE MAP SHOWING GROUNDWATER VOLATILE ORGANIC COMPOUND CONCENTRATIONS", CREATED BY GEL ENGINEERING, DECEMBER 2011.

0 200' 400' 600'

PREPARED FOR:

PINEWOOD SITE
PINEWOOD,
SOUTH CAROLINA

PREPARED BY:

SMITH+ GARDNER
ENGINEERS
14 N. Boylan Avenue, Raleigh NC 27603 | 919.828.0577

SEAL

SEAL

REV.	DATE	DESCRIPTION

PROJECT TITLE:

THIRD QUARTER 2017 DETECTION MONITORING PROGRAM REPORT

DRAWING TITLE:

POTENTIOMETRIC SURFACE MAP SECONDARY SAWDUST LANDING JULY 2017

DESIGNED: BJW	PROJECT NO: PINEWOOD 12-4
DRAWN: BJW	SCALE: AS SHOWN
APPROVED: CKA	DATE: SEPTEMBER 2017
FILENAME: PINE-D0228	
SHEET NUMBER:	DRAWING NUMBER: FIG. 6

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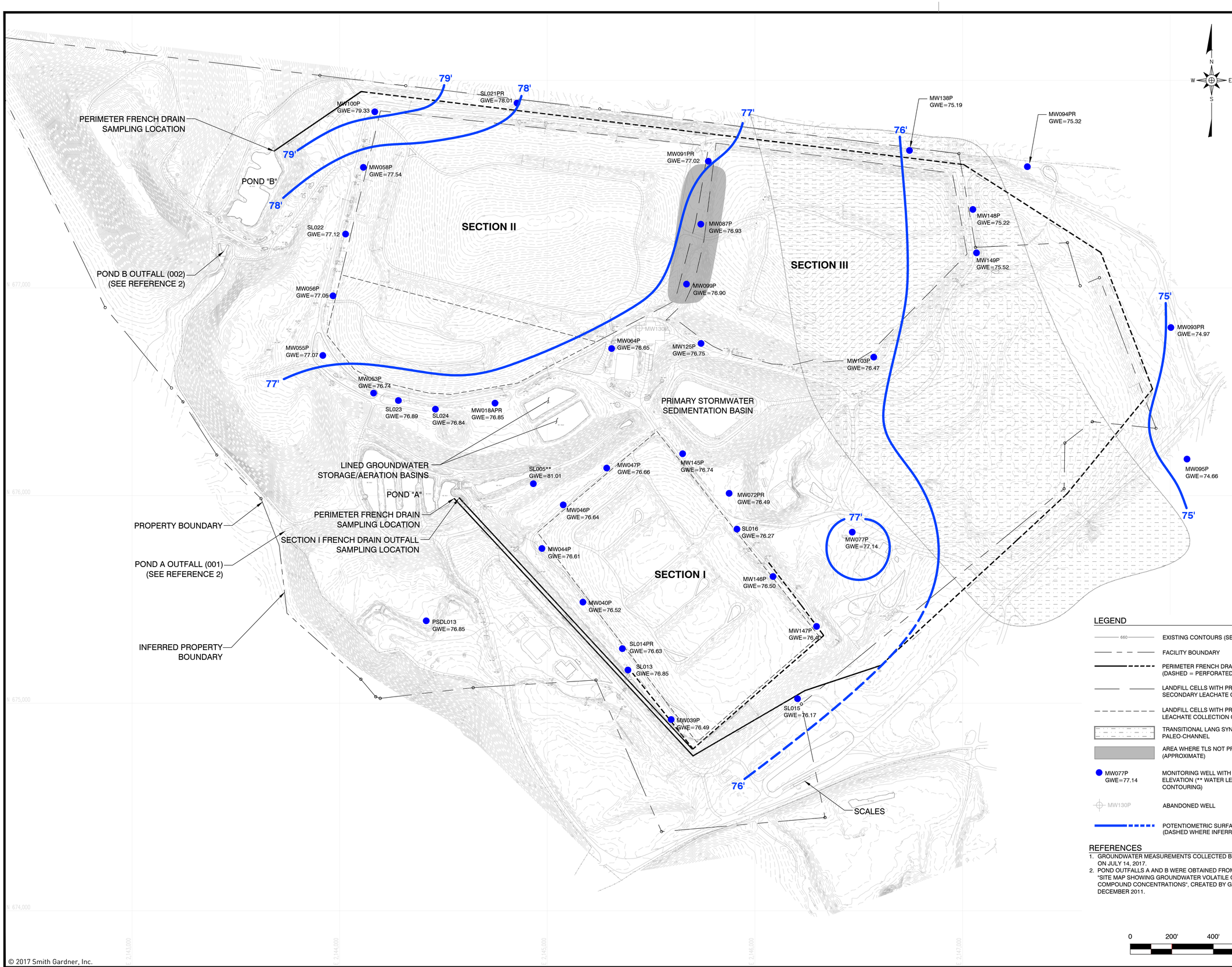

LEGEND

- EXISTING CONTOURS (SEE REFERENCE 1) (660)
- FACILITY BOUNDARY
- PERIMETER FRENCH DRAIN (DASHED = PERFORATED PIPE)
- LANDFILL CELLS WITH PRIMARY AND SECONDARY LEACHATE COLLECTION
- LANDFILL CELLS WITH PRIMARY LEACHATE COLLECTION ONLY
- TRANSITIONAL LANG SYNE (TLS) PALEO-CHANNEL
- AREA WHERE TLS NOT PRESENT (APPROXIMATE)
- MW077P GWE=77.14 — MONITORING WELL WITH GROUNDWATER ELEVATION (** WATER LEVEL NOT USED IN CONTOURING)
- MW130P — ABANDONED WELL
- POTENTIOMETRIC SURFACE LINE (DASHED WHERE INFERRED)

REFERENCES

1. GROUNDWATER MEASUREMENTS COLLECTED BY S+G PERSONNEL ON JULY 14, 2017.
2. POND OUTFALLS A AND B WERE OBTAINED FROM DRAWING TITLED "SITE MAP SHOWING GROUNDWATER VOLATILE ORGANIC COMPOUND CONCENTRATIONS", CREATED BY GEL ENGINEERING, DECEMBER 2011.

0 200' 400' 600'

PREPARED FOR:

PINEWOOD SITE
PINEWOOD,
SOUTH CAROLINA

PREPARED BY:

SMITH+ GARDNER
ENGINEERS
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SEAL

SEAL

REV.	DATE	DESCRIPTION

PROJECT TITLE:

THIRD QUARTER 2017 DETECTION MONITORING PROGRAM REPORT

DRAWING TITLE:

POTENTIOMETRIC SURFACE MAP PRIMARY SAWDUST LANDING JULY 2017

DESIGNED: BJW	PROJECT NO.: PINEWOOD 12-4
DRAWN: BJW	SCALE: AS SHOWN
APPROVED: CKA	DATE: SEPTEMBER 2017
FILENAME: PINE-D0228	
SHEET NUMBER:	DRAWING NUMBER: FIG. 7

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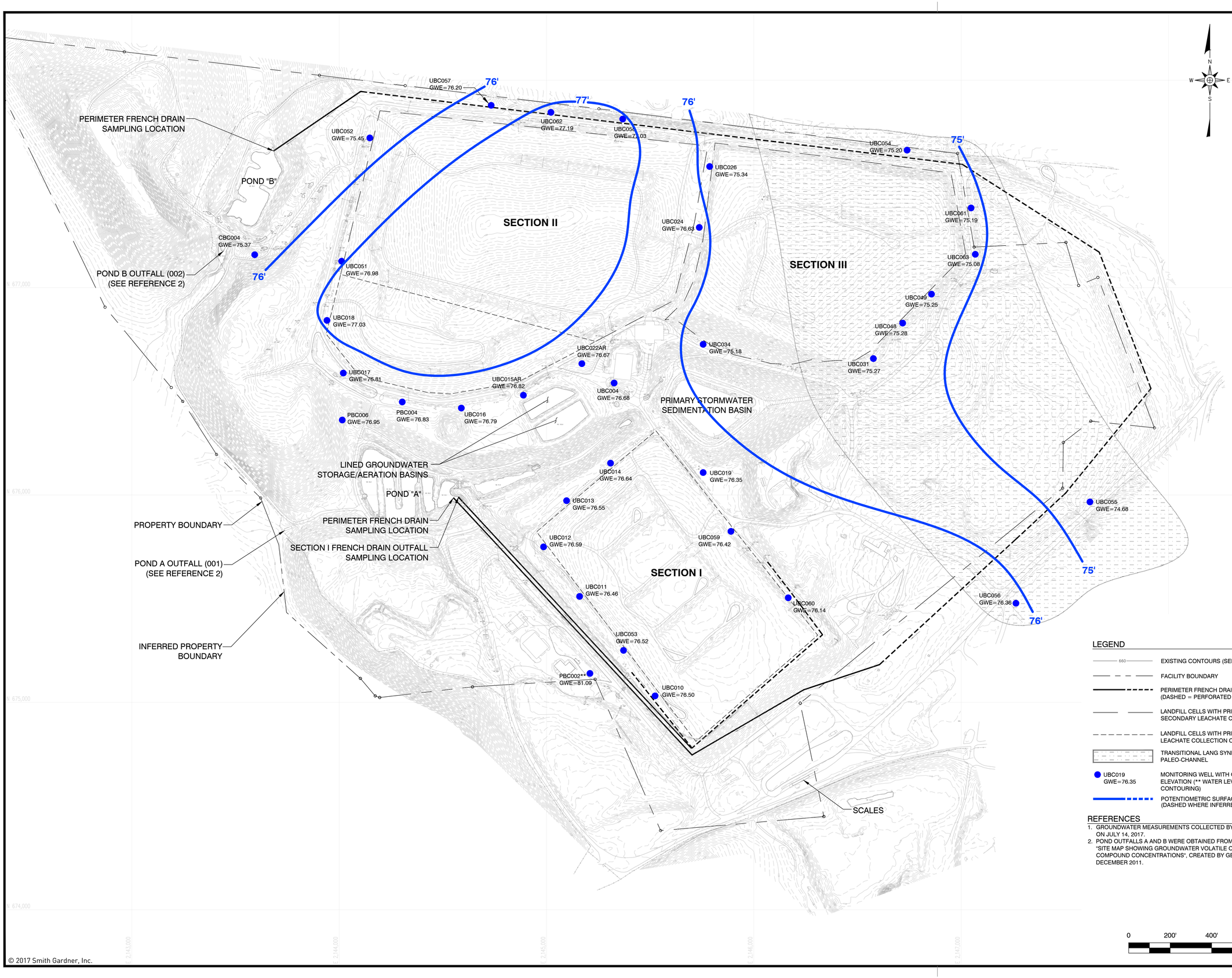

LEGEND

- EXISTING CONTOURS (SEE REFERENCE 1)
- FACILITY BOUNDARY
- PERIMETER FRENCH DRAIN (DASHED = PERFORATED PIPE)
- LANDFILL CELLS WITH PRIMARY AND SECONDARY LEACHATE COLLECTION
- LANDFILL CELLS WITH PRIMARY LEACHATE COLLECTION ONLY
- TRANSITIONAL LANG SYNE (TLS) PALEO-CHANNEL
- UBC019 GWE=76.35 — MONITORING WELL WITH GROUNDWATER ELEVATION (** WATER LEVEL NOT USED IN CONTOURING)
- POTENTIOMETRIC SURFACE LINE (DASHED WHERE INFERRED)

REFERENCES

1. GROUNDWATER MEASUREMENTS COLLECTED BY S+G PERSONNEL ON JULY 14, 2017.
2. POND OUTFALLS A AND B WERE OBTAINED FROM DRAWING TITLED "SITE MAP SHOWING GROUNDWATER VOLATILE ORGANIC COMPOUND CONCENTRATIONS", CREATED BY GEL ENGINEERING, DECEMBER 2011.

0 200' 400' 600'

PREPARED FOR:

PINEWOOD SITE
PINEWOOD,
SOUTH CAROLINA

PREPARED BY:

SMITH+ GARDNER
ENGINEERS
14 N. Boylan Avenue, Raleigh NC 27603 | 919.828.0577

SEAL

SEAL

REV.	DATE	DESCRIPTION

PROJECT TITLE:

THIRD QUARTER 2017 DETECTION MONITORING PROGRAM REPORT

DRAWING TITLE:

POTENTIOMETRIC SURFACE MAP UPPER BLACK CREEK - SAND A1 JULY 2017

DESIGNED: BJW	PROJECT NO: PINEWOOD 12-4
DRAWN: BJW	SCALE: AS SHOWN
APPROVED: CKA	DATE: SEPTEMBER 2017
FILENAME: PINE-D0228	
SHEET NUMBER:	DRAWING NUMBER: FIG. 8

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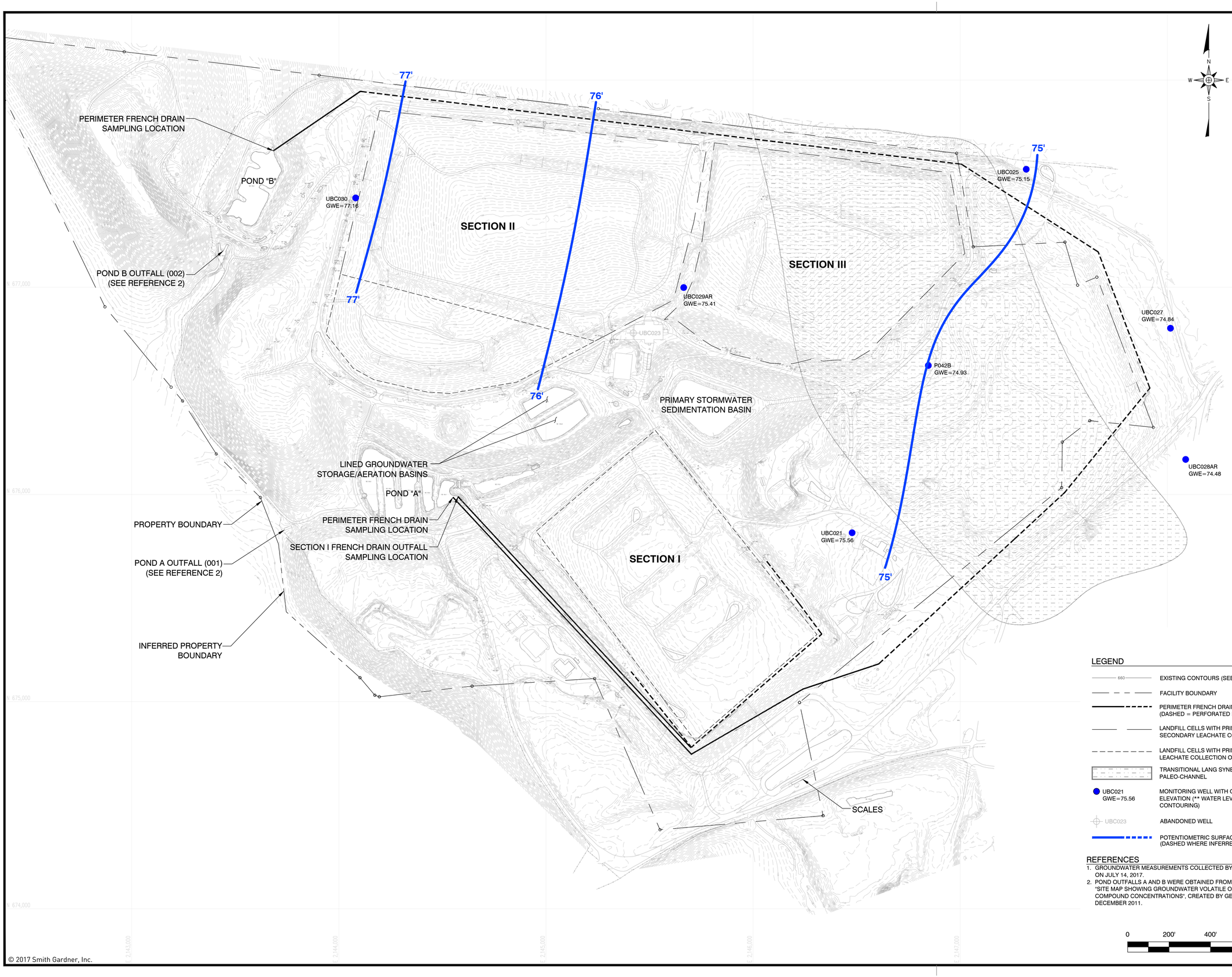

LEGEND

- 660 — EXISTING CONTOURS (SEE REFERENCE 1)
- FACILITY BOUNDARY
- PERIMETER FRENCH DRAIN (DASHED = PERFORATED PIPE)
- LANDFILL CELLS WITH PRIMARY AND SECONDARY LEACHATE COLLECTION
- LANDFILL CELLS WITH PRIMARY LEACHATE COLLECTION ONLY
- TRANSITIONAL LANG SYNE (TLS) PALEO-CHANNEL
- UBC021 GWE=75.56 — MONITORING WELL WITH GROUNDWATER ELEVATION (** WATER LEVEL NOT USED IN CONTOURING)
- UBC023 — ABANDONED WELL
- POTENTIOMETRIC SURFACE LINE (DASHED WHERE INFERRED)

REFERENCES

1. GROUNDWATER MEASUREMENTS COLLECTED BY S+G PERSONNEL ON JULY 14, 2017.
2. POND OUTFALLS A AND B WERE OBTAINED FROM DRAWING TITLED "SITE MAP SHOWING GROUNDWATER VOLATILE ORGANIC COMPOUND CONCENTRATIONS", CREATED BY GEL ENGINEERING, DECEMBER 2011.

0 200' 400' 600'

PREPARED FOR:

PINEWOOD SITE
PINEWOOD,
SOUTH CAROLINA

PREPARED BY:

SMITH+ GARDNER
ENGINEERS
14 N. Boylan Avenue, Raleigh NC 27603 | 919.828.0577

SEAL

SEAL

REV.	DATE	DESCRIPTION

PROJECT TITLE:

THIRD QUARTER 2017 DETECTION MONITORING PROGRAM REPORT

DRAWING TITLE:

POTENTIOMETRIC SURFACE MAP UPPER BLACK CREEK - SAND A2 JULY 2017

DESIGNED: BJW	PROJECT NO: PINEWOOD 12-4
DRAWN: BJW	SCALE: AS SHOWN
APPROVED: CKA	DATE: SEPTEMBER 2017
FILENAME: PINE-D0228	
SHEET NUMBER:	DRAWING NUMBER: FIG. 9

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Appendix A

Hydrographs and Vertical Gradient Charts

2017 Third Quarter Detection Monitoring Program Report
Pinewood Site
SCD 070 375 985

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HYDROGRAPHS

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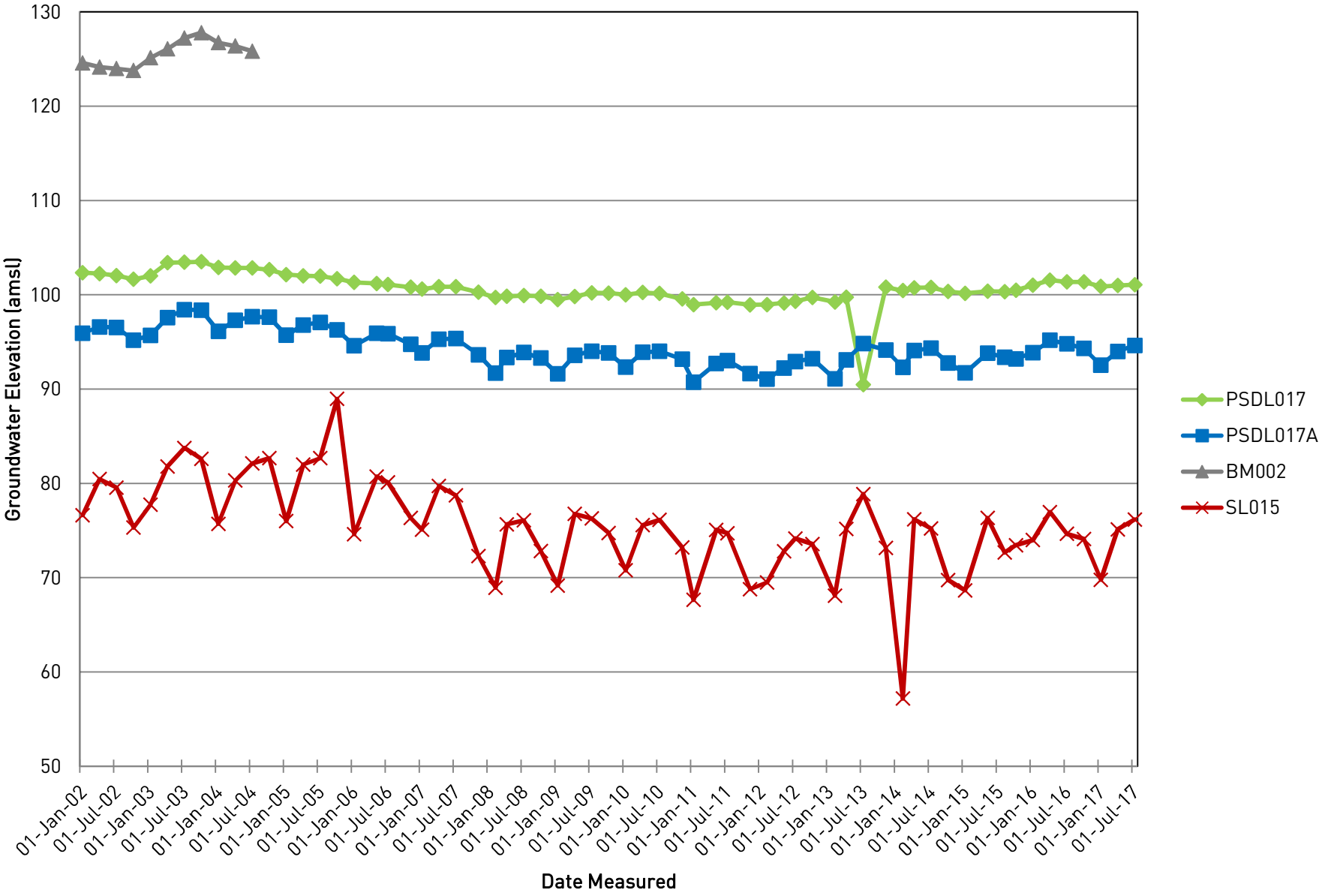
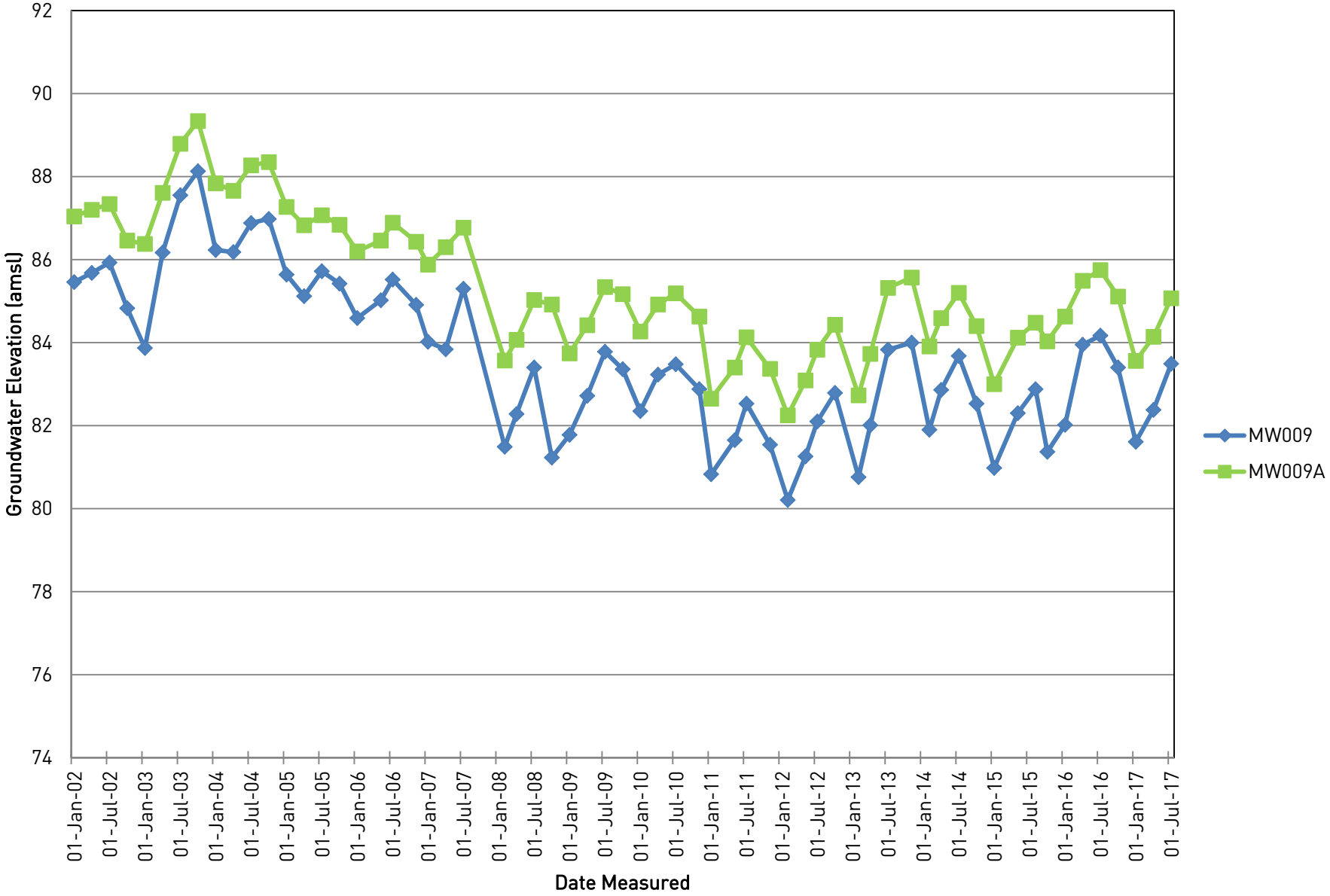
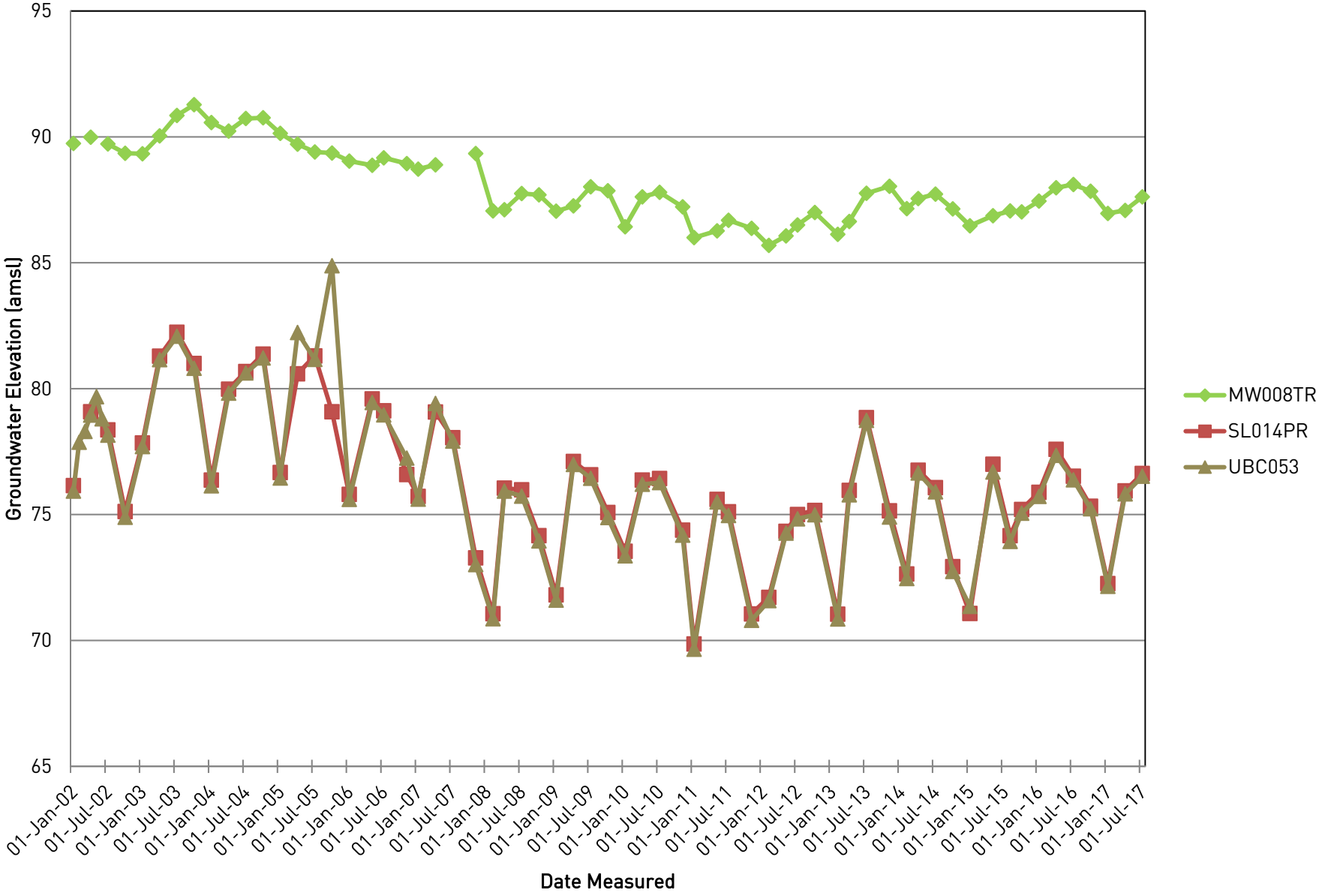
Hydrographs



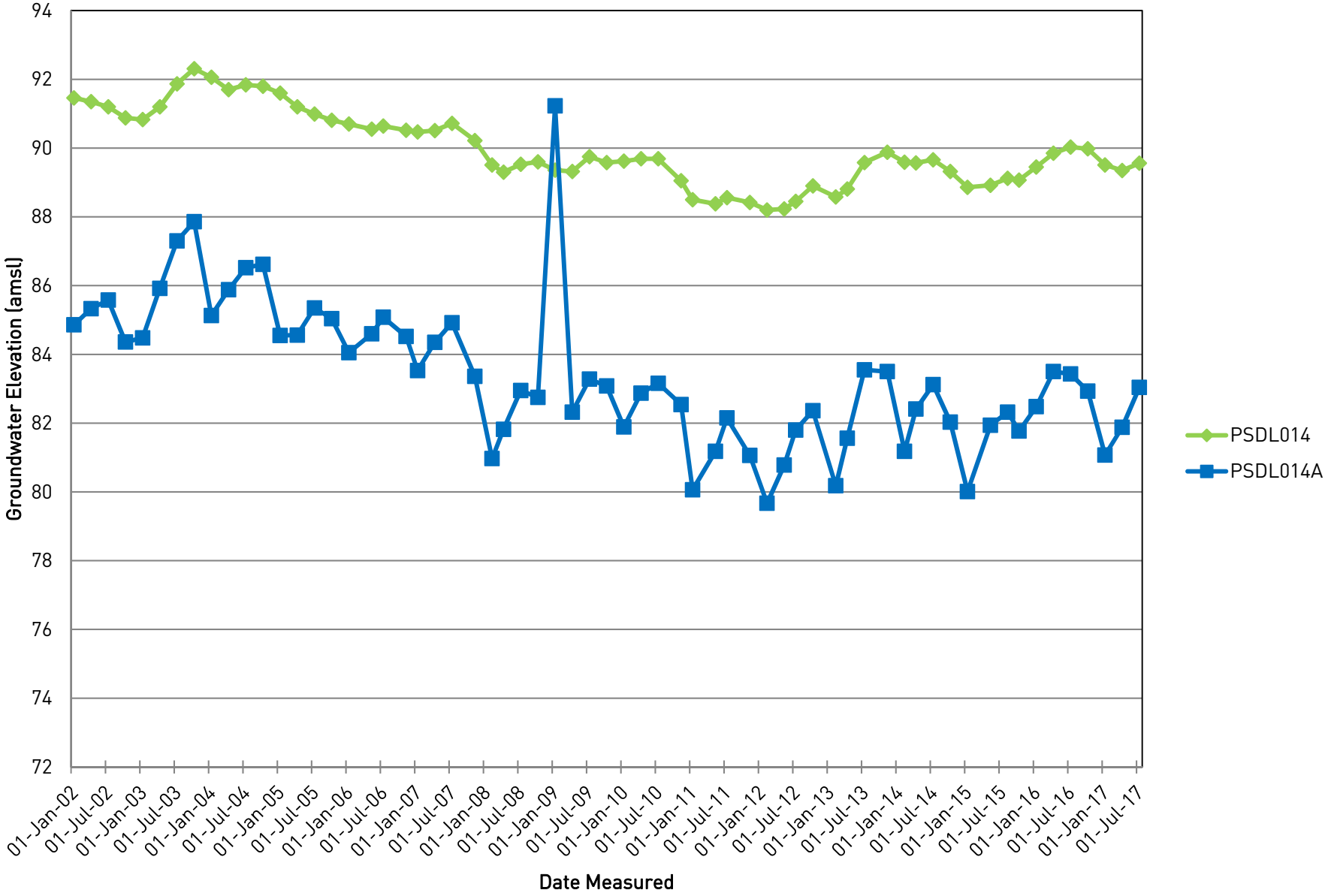
Hydrographs



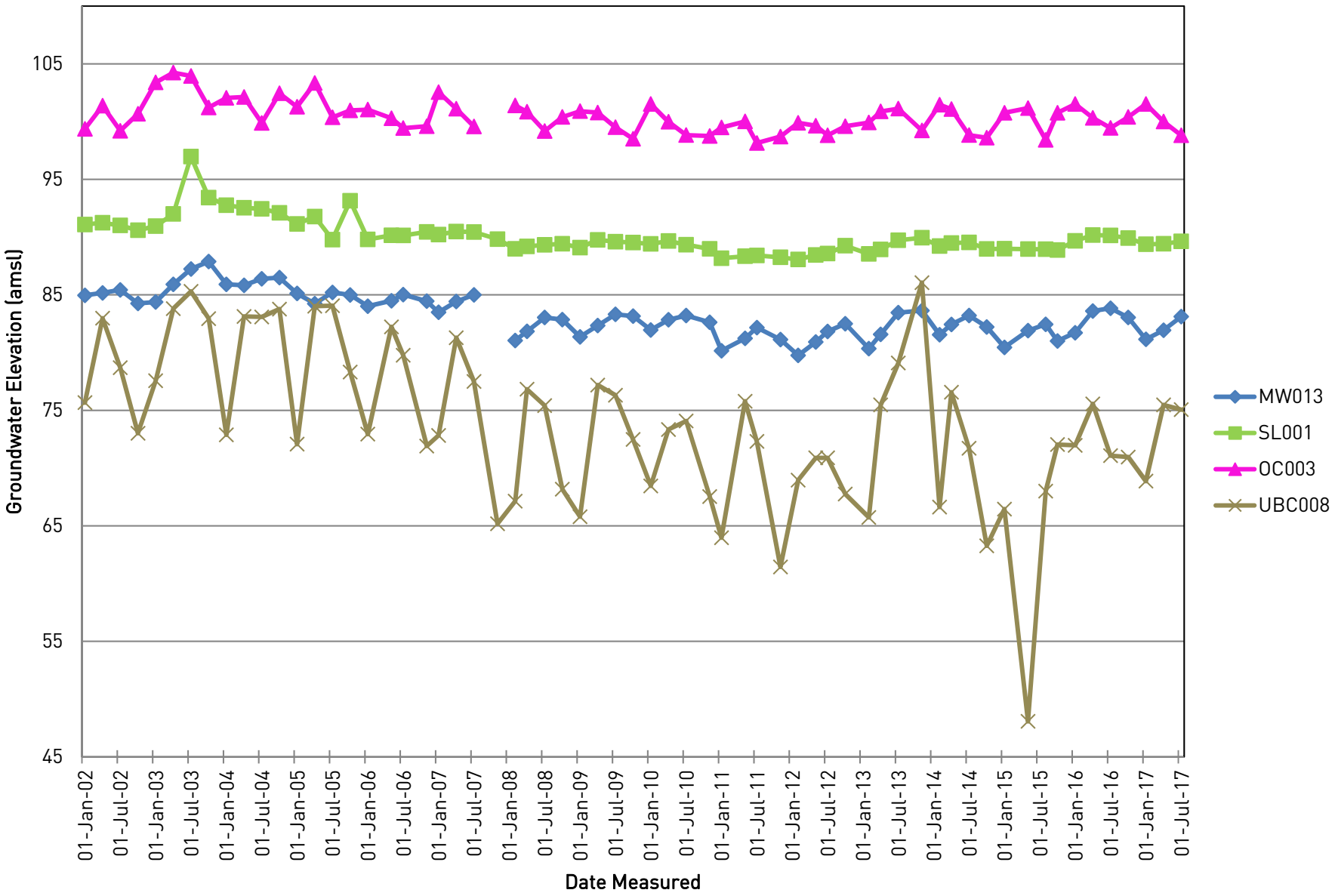
Hydrographs



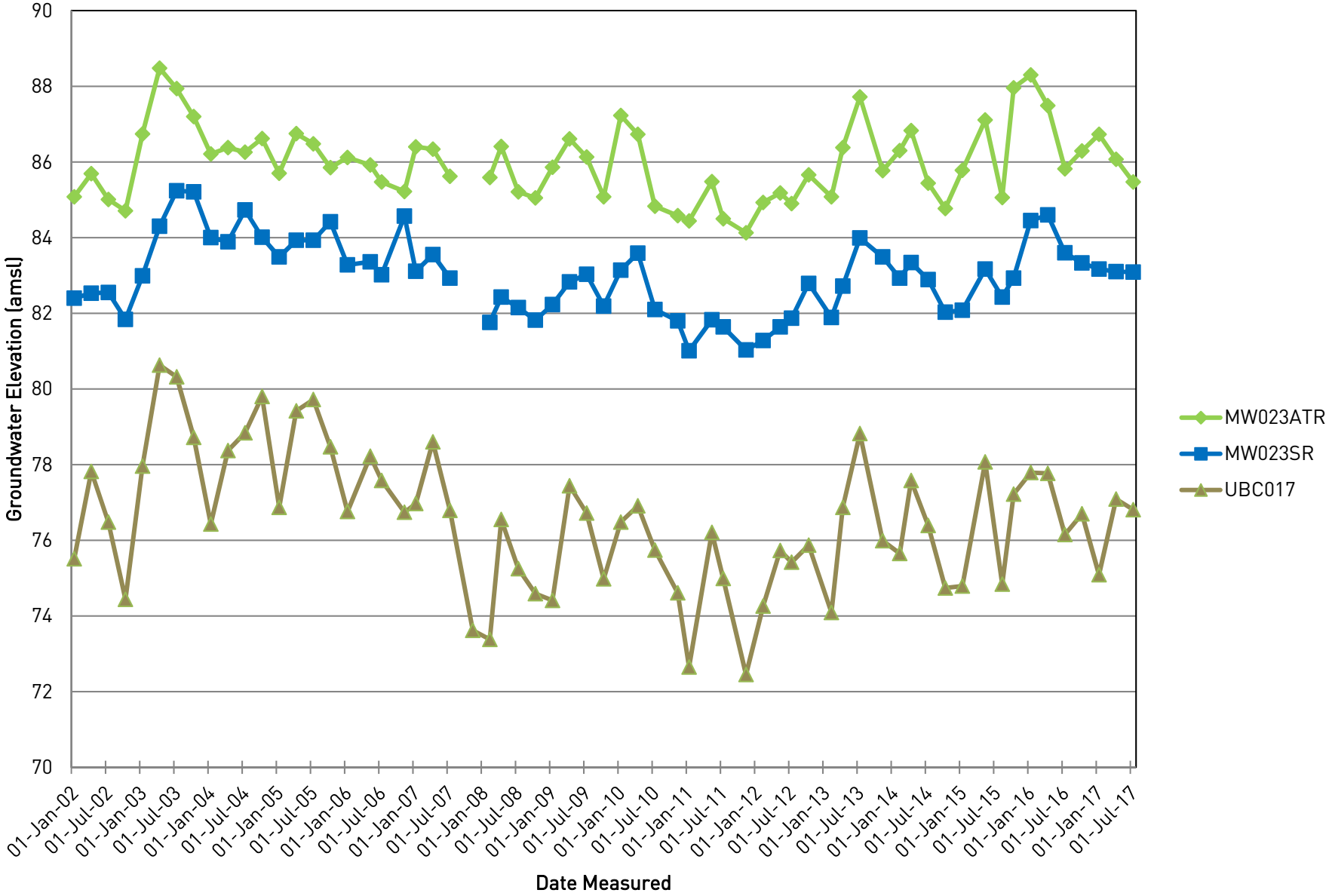
Hydrographs



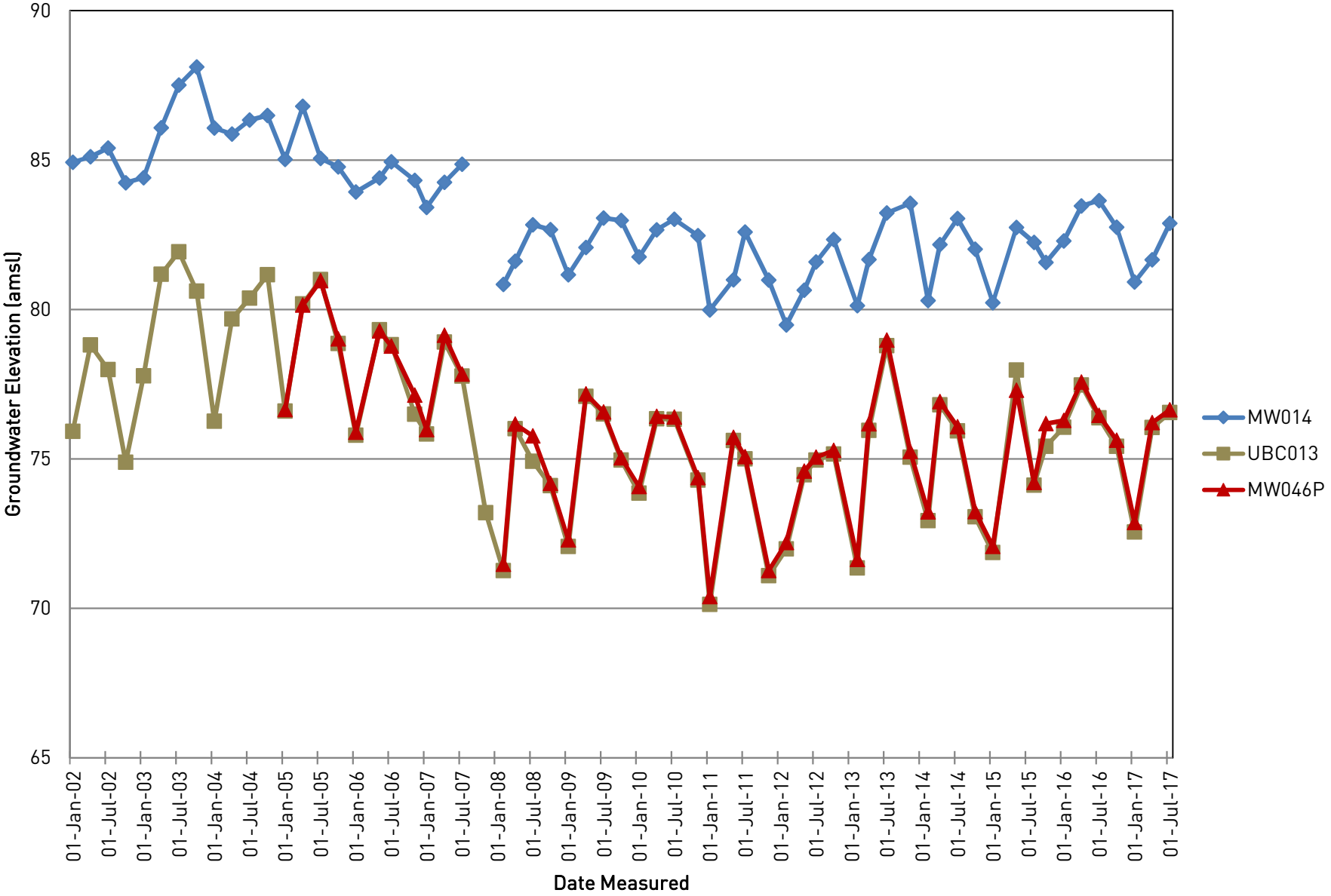
Hydrographs



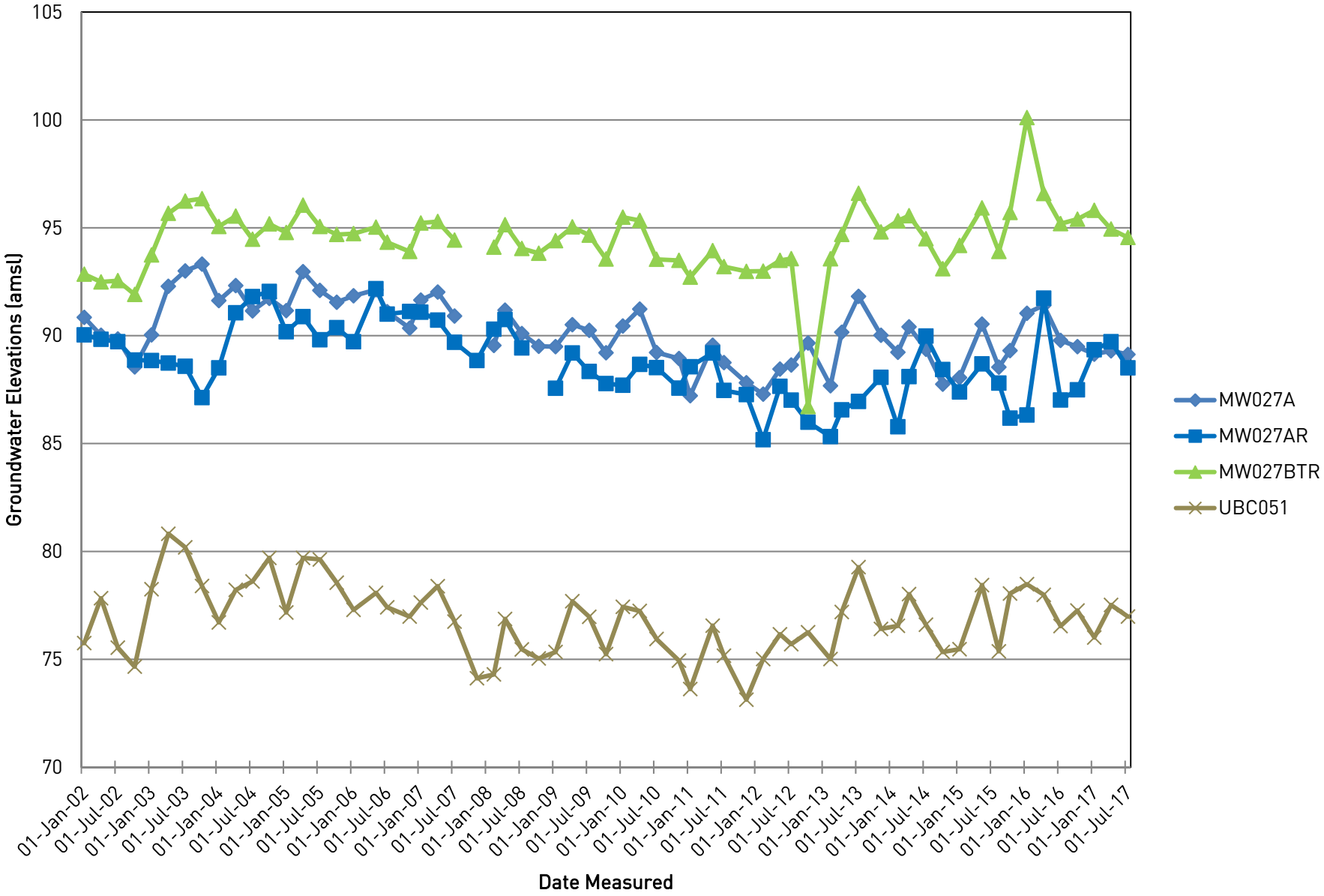
Hydrographs



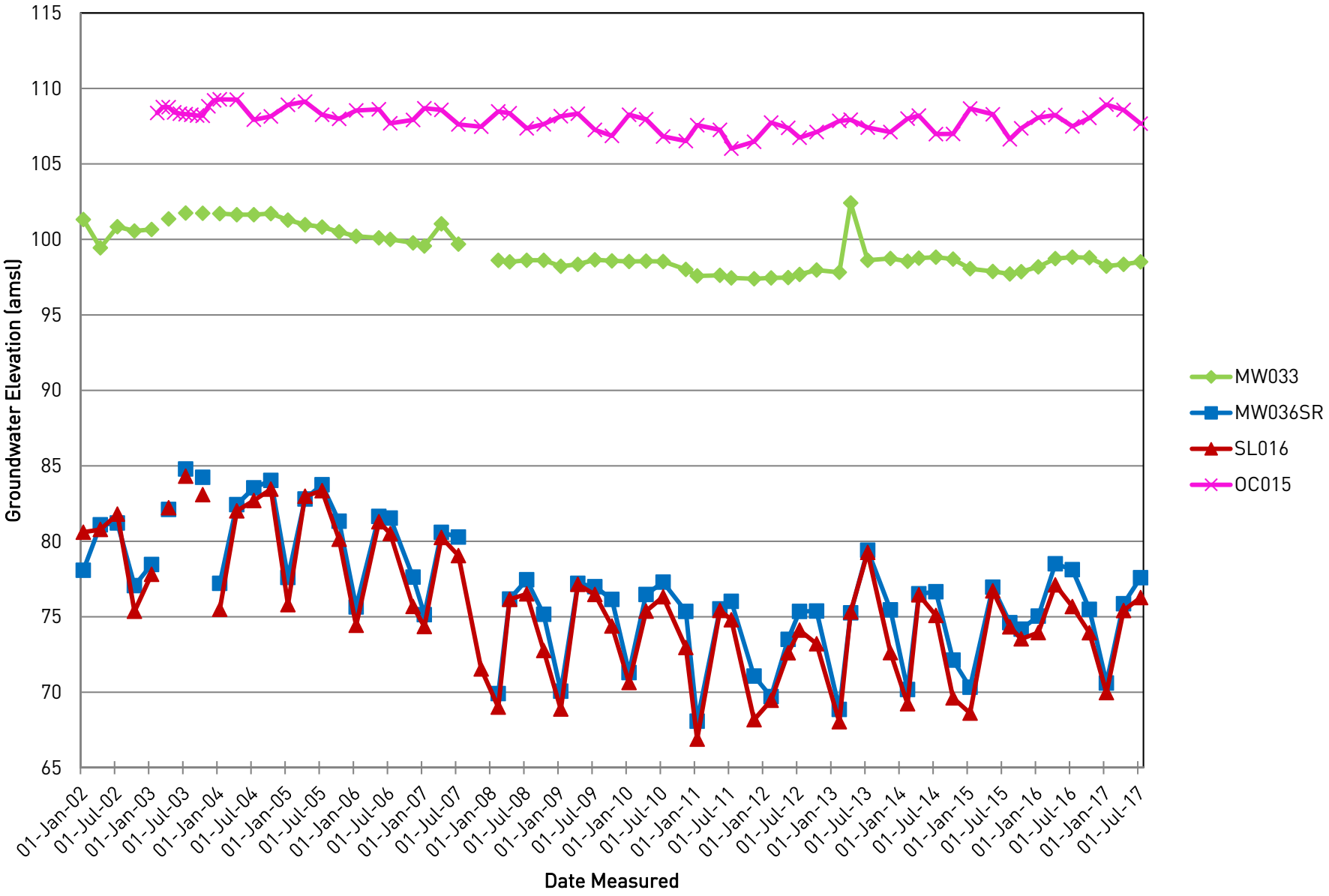
Hydrographs



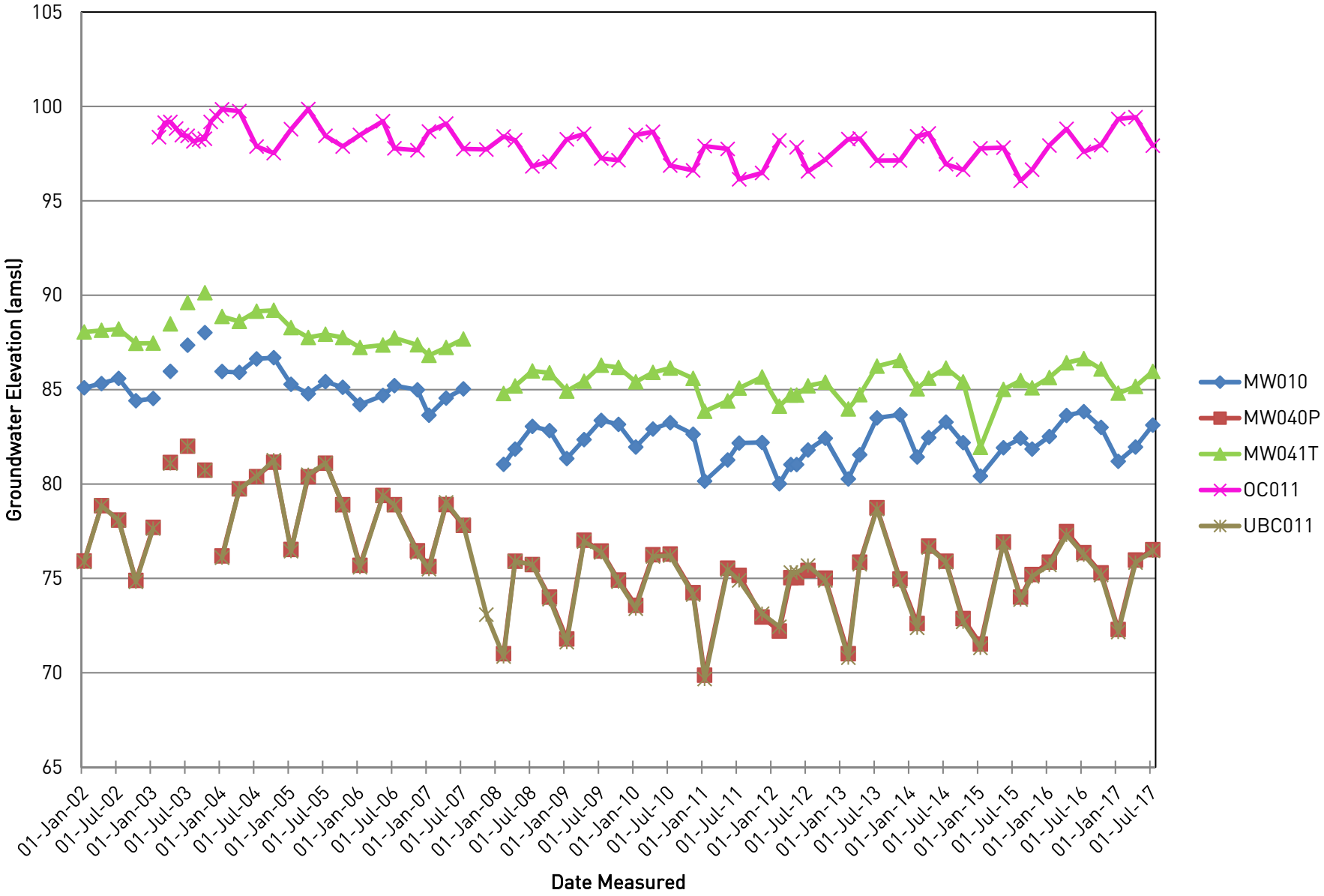
Hydrographs



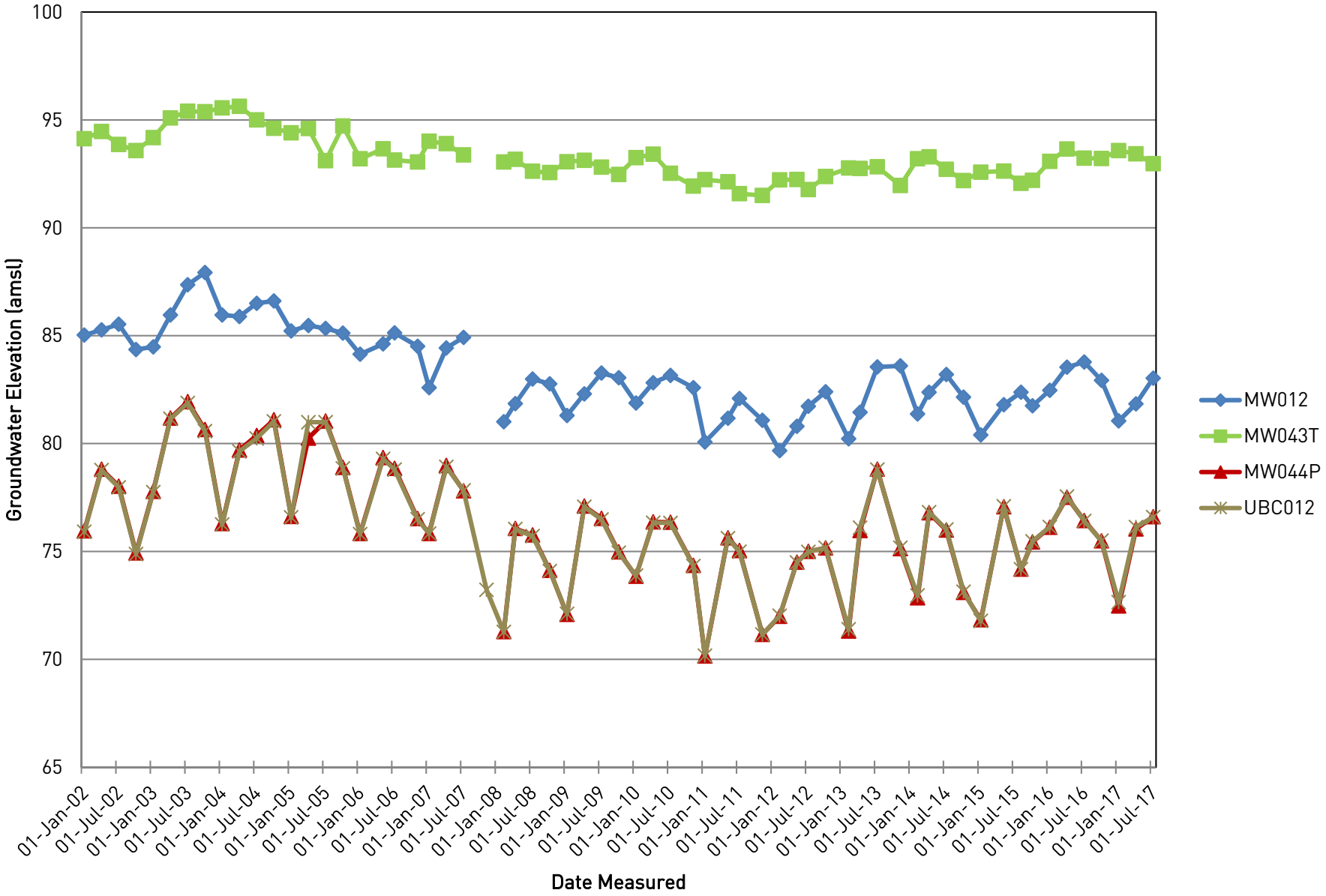
Hydrographs



Hydrographs



Hydrographs



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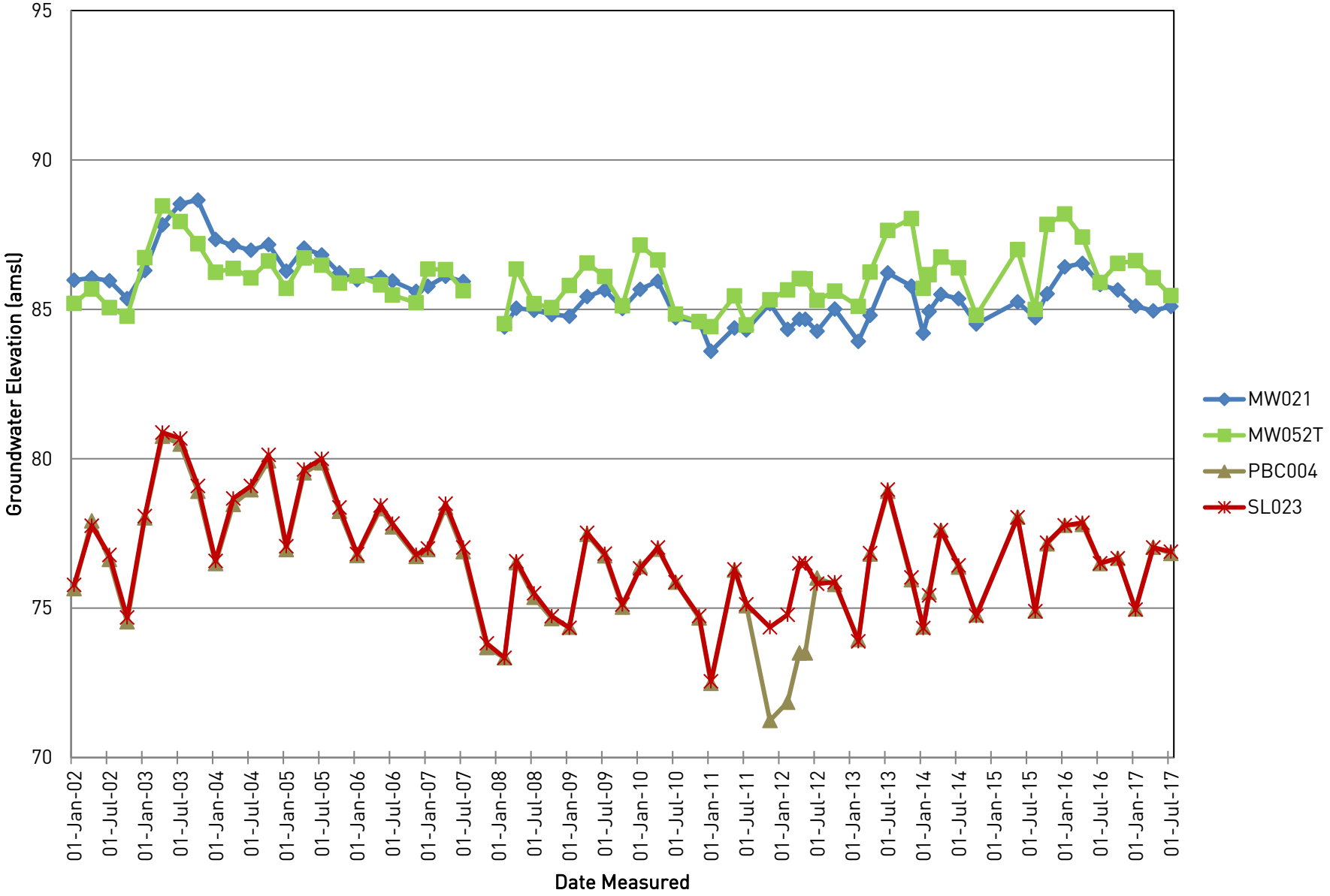
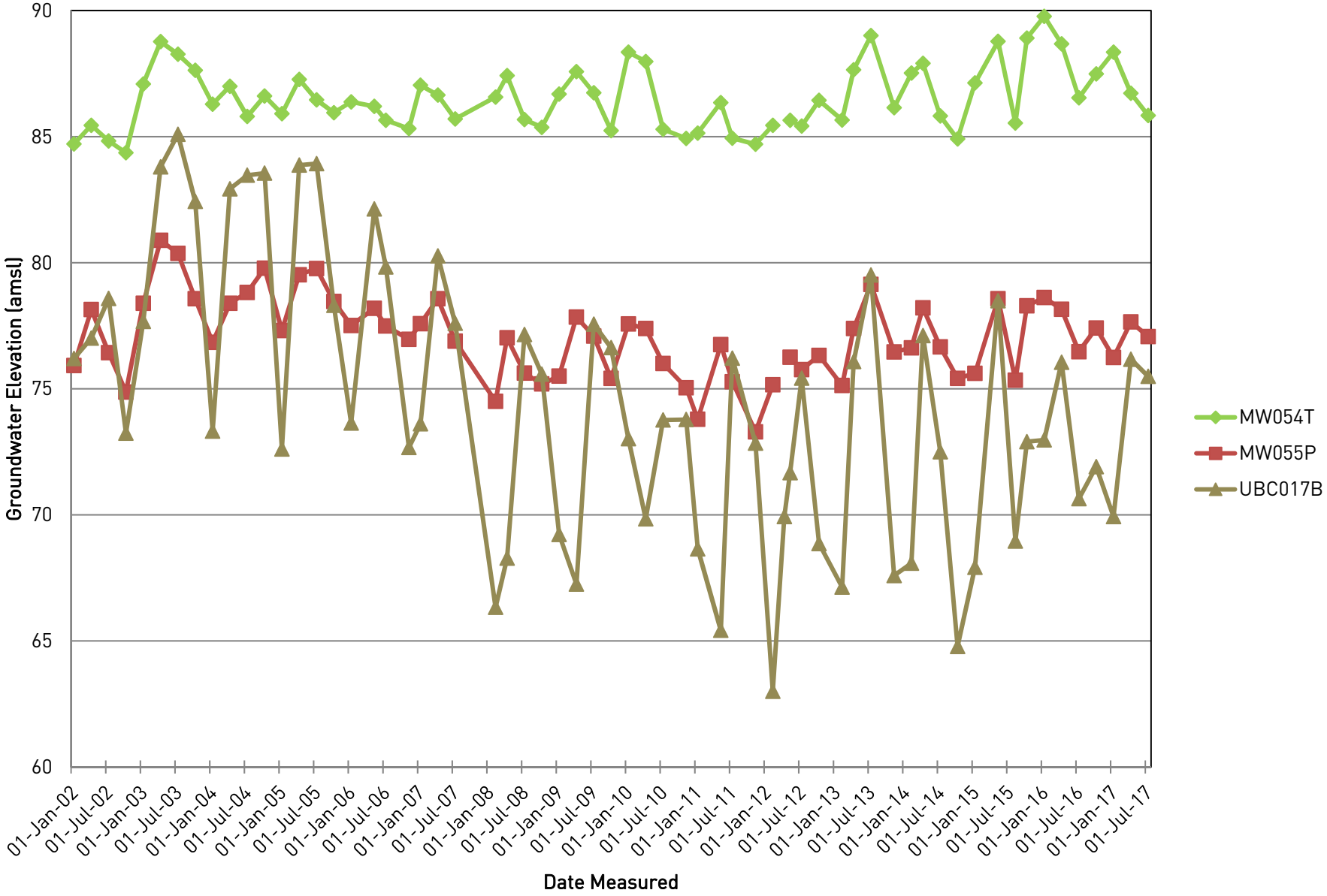
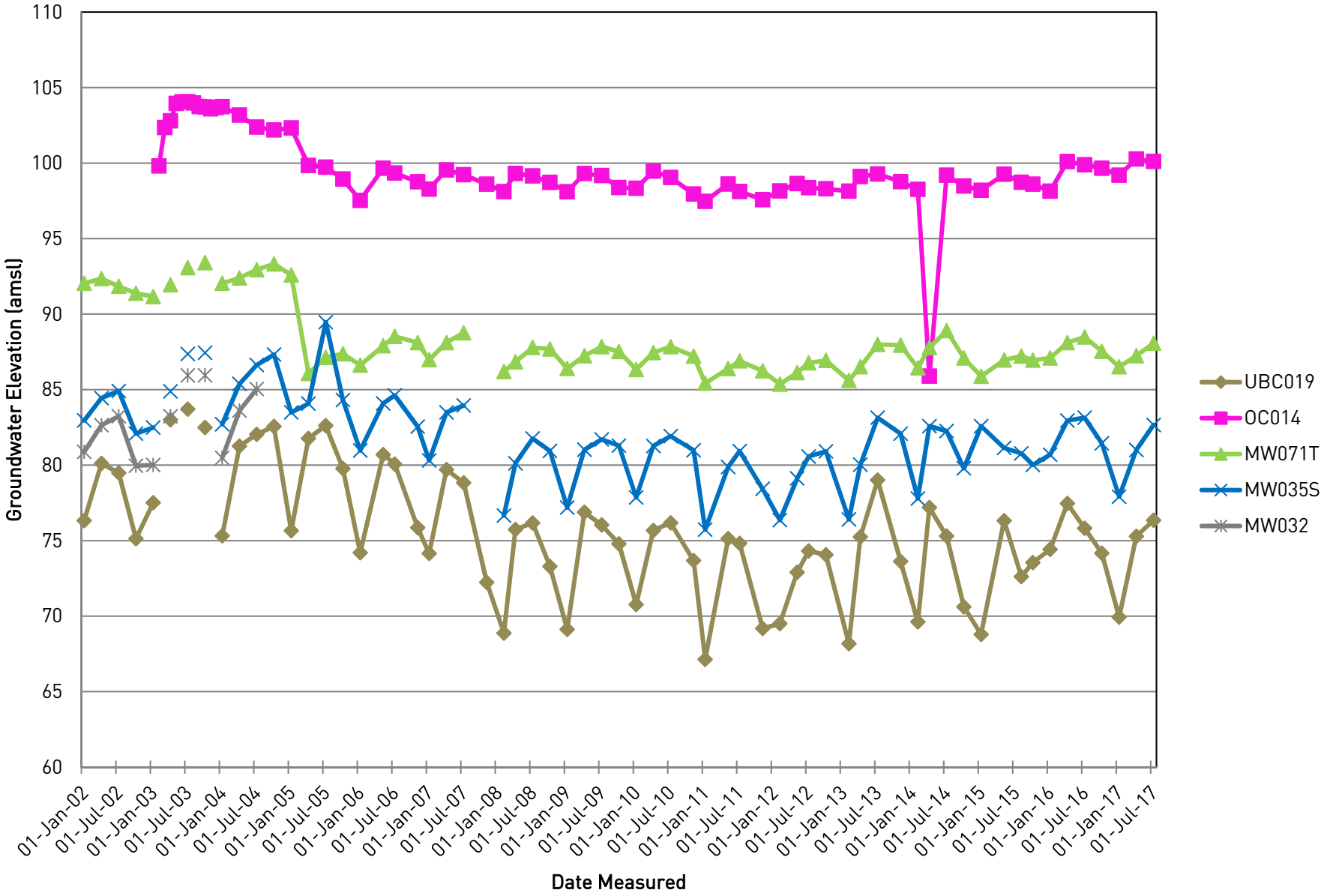


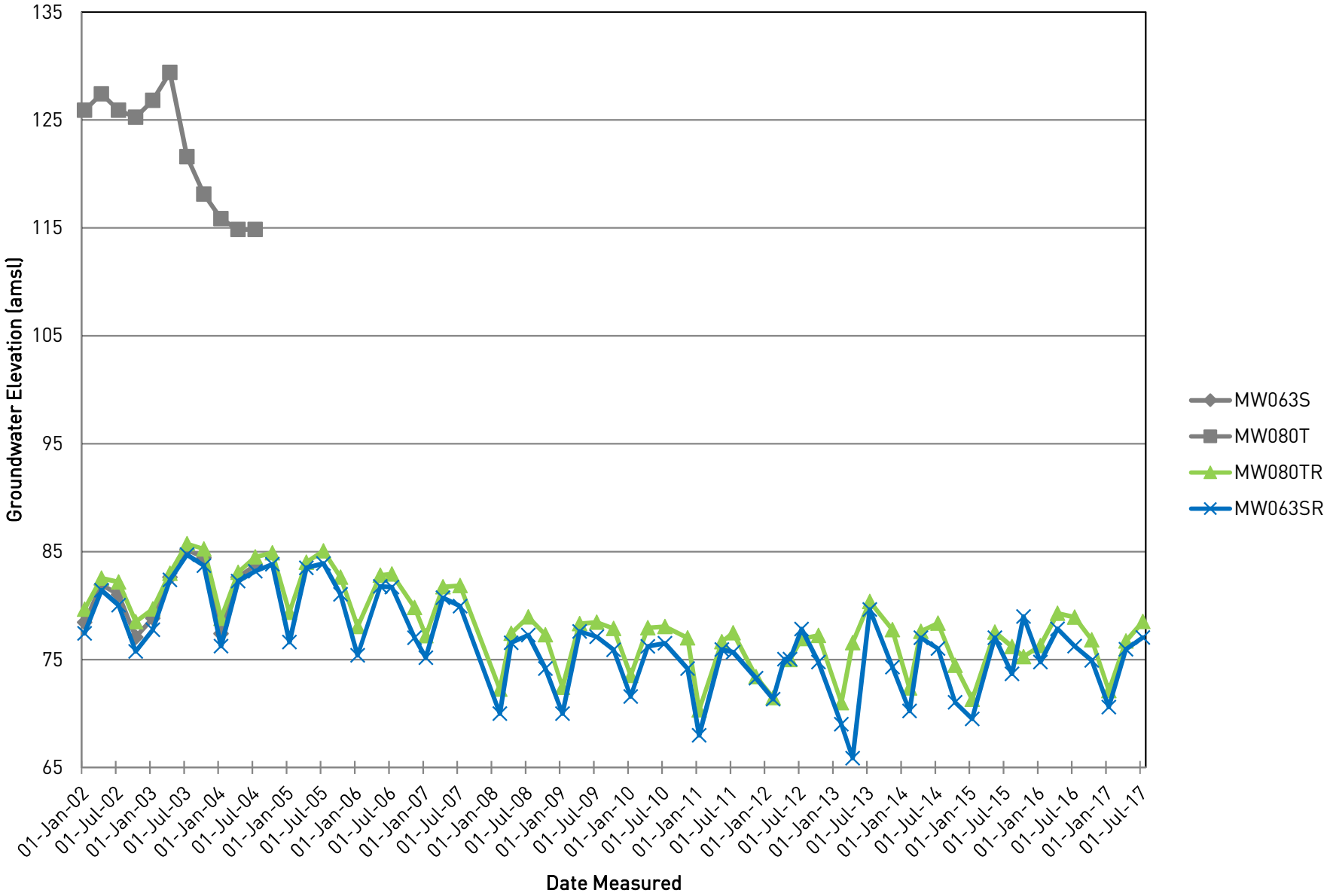
Hydrographs



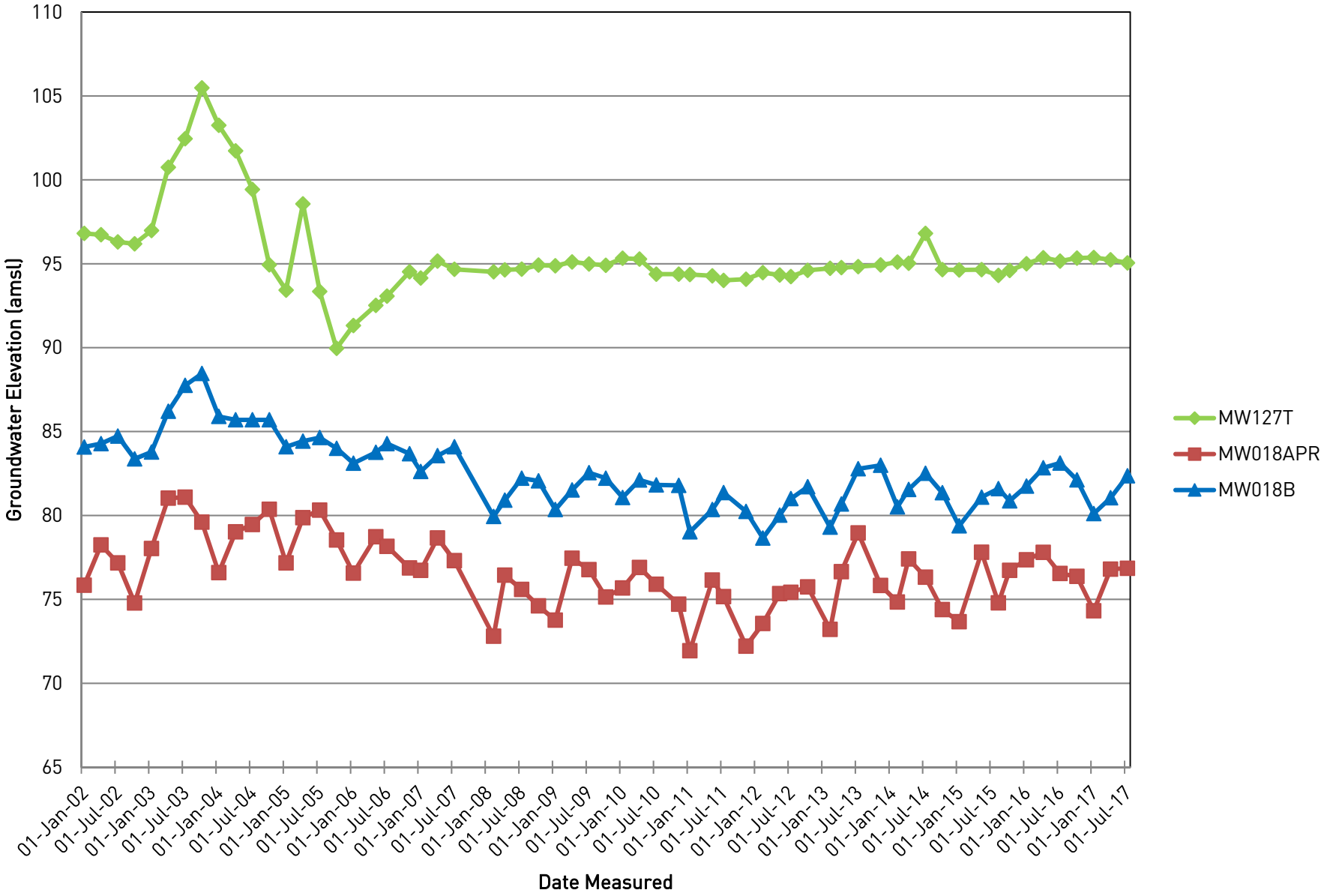
Hydrographs



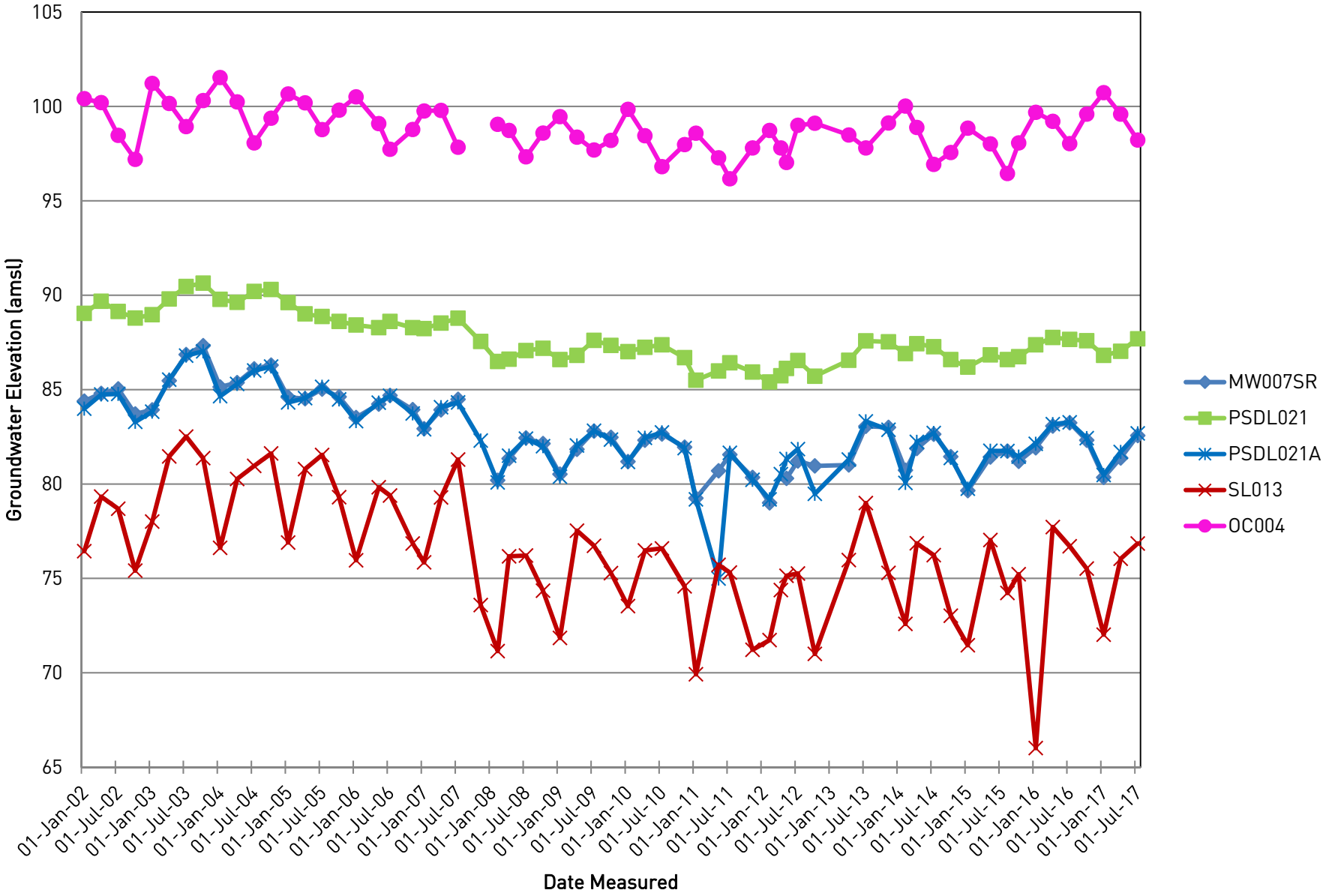
Hydrographs



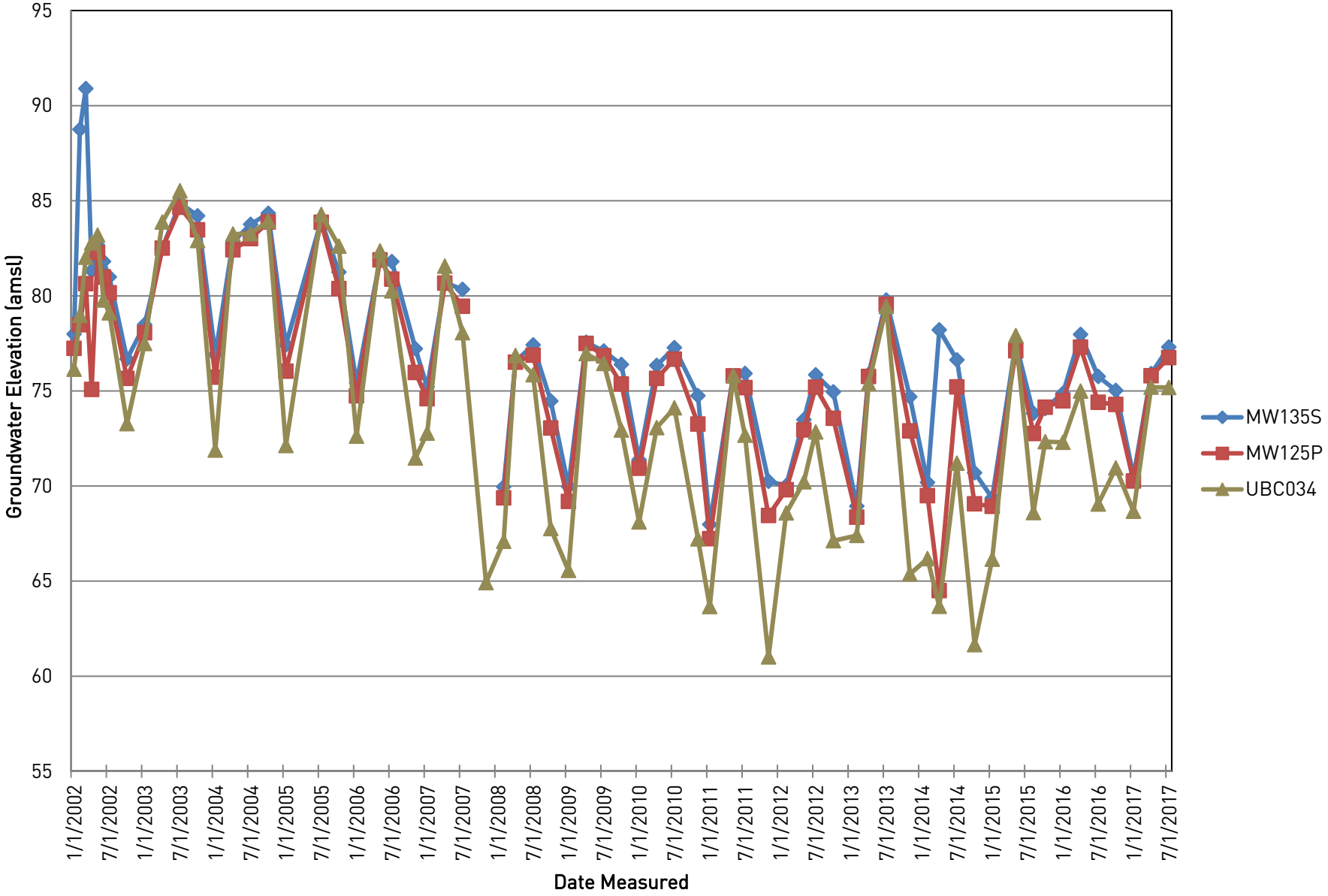
Hydrographs



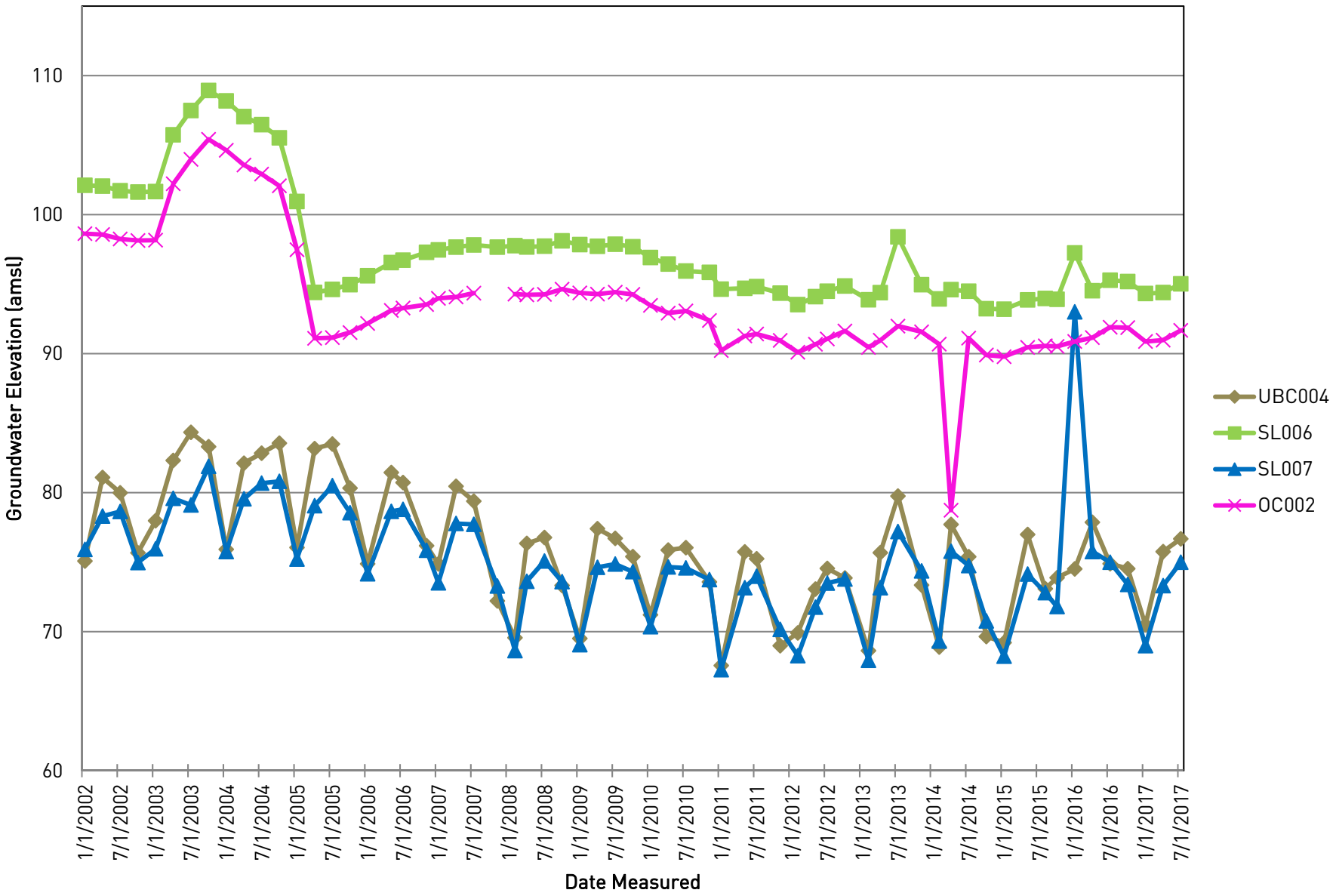
Hydrographs



Hydrographs



Hydrographs



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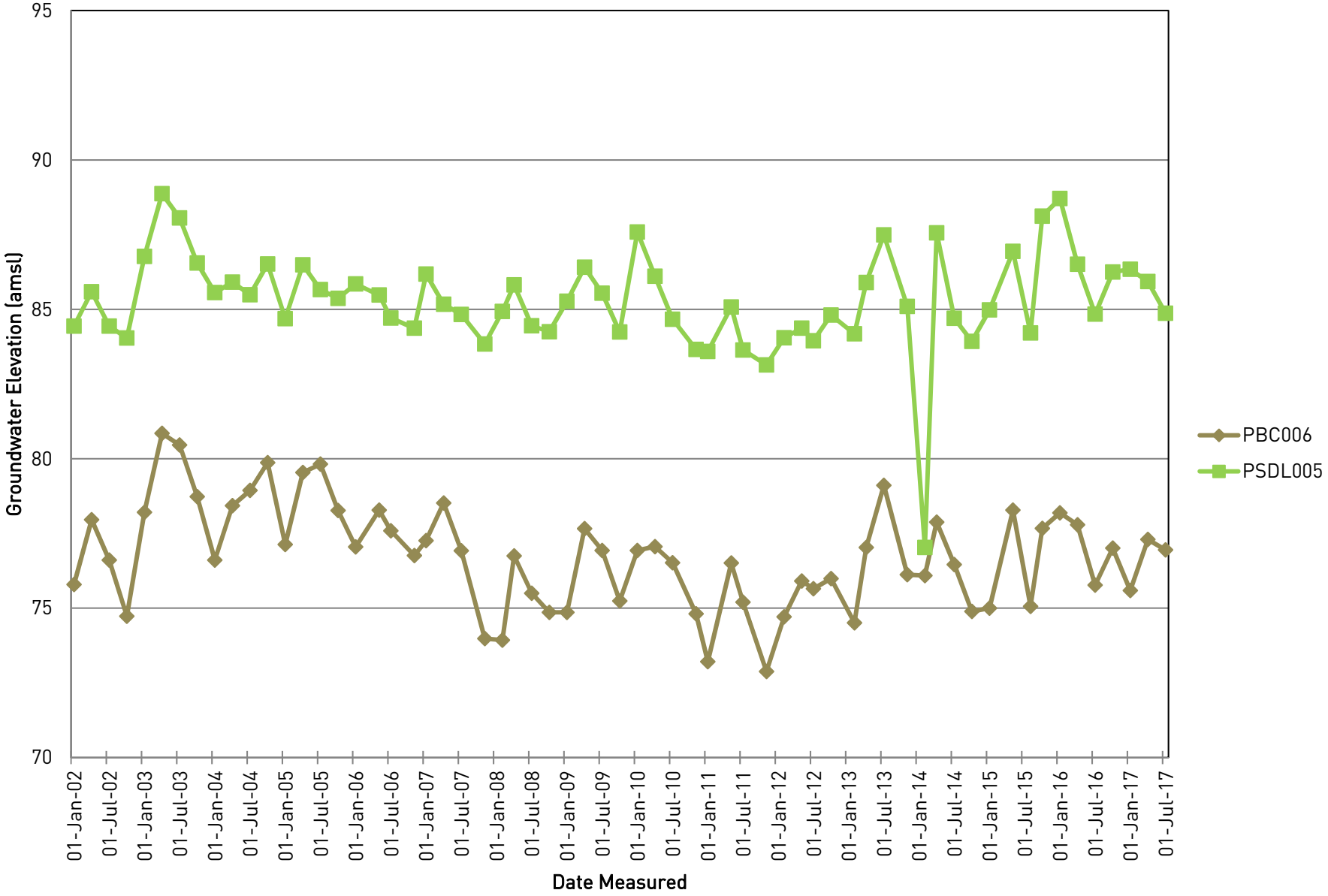

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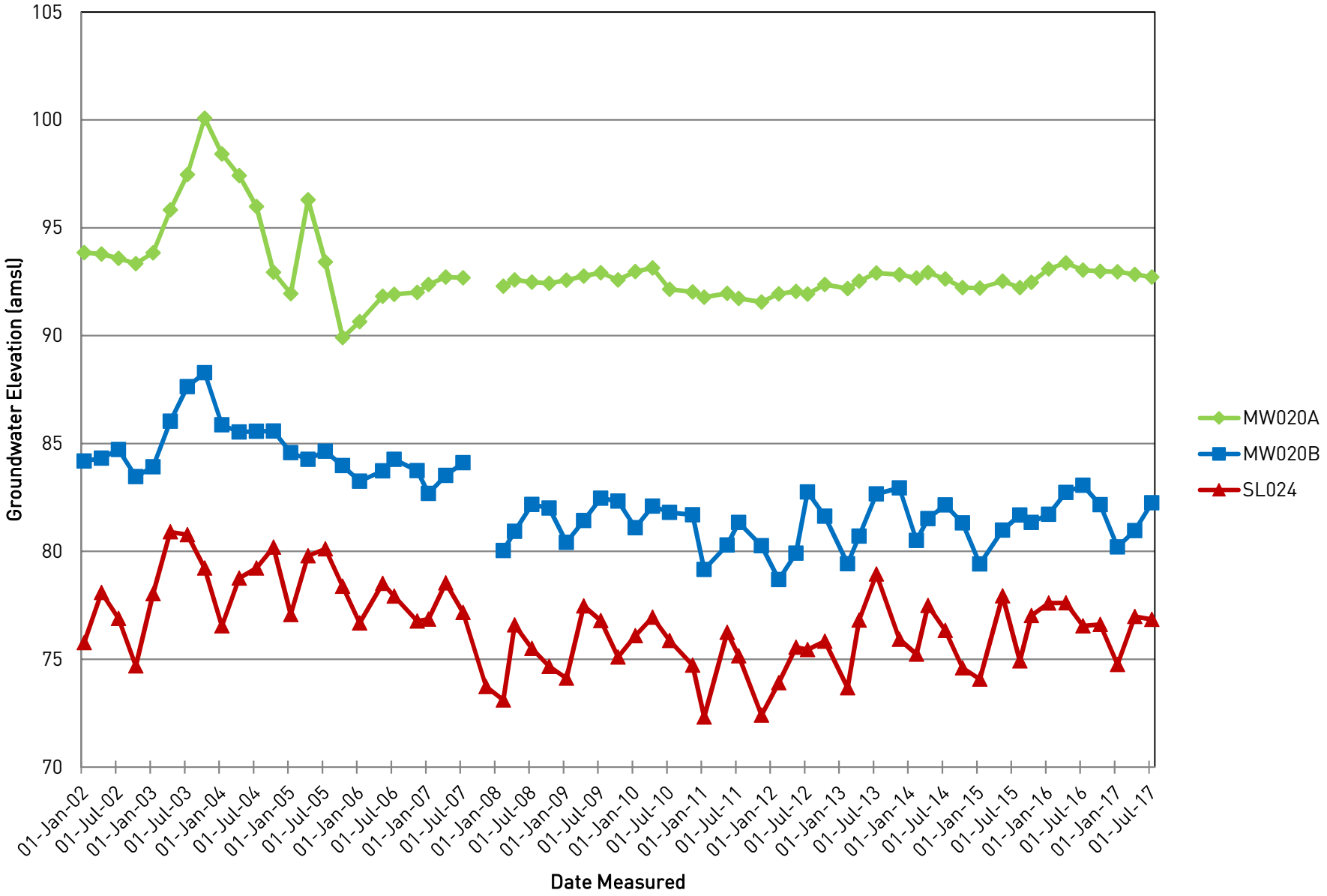
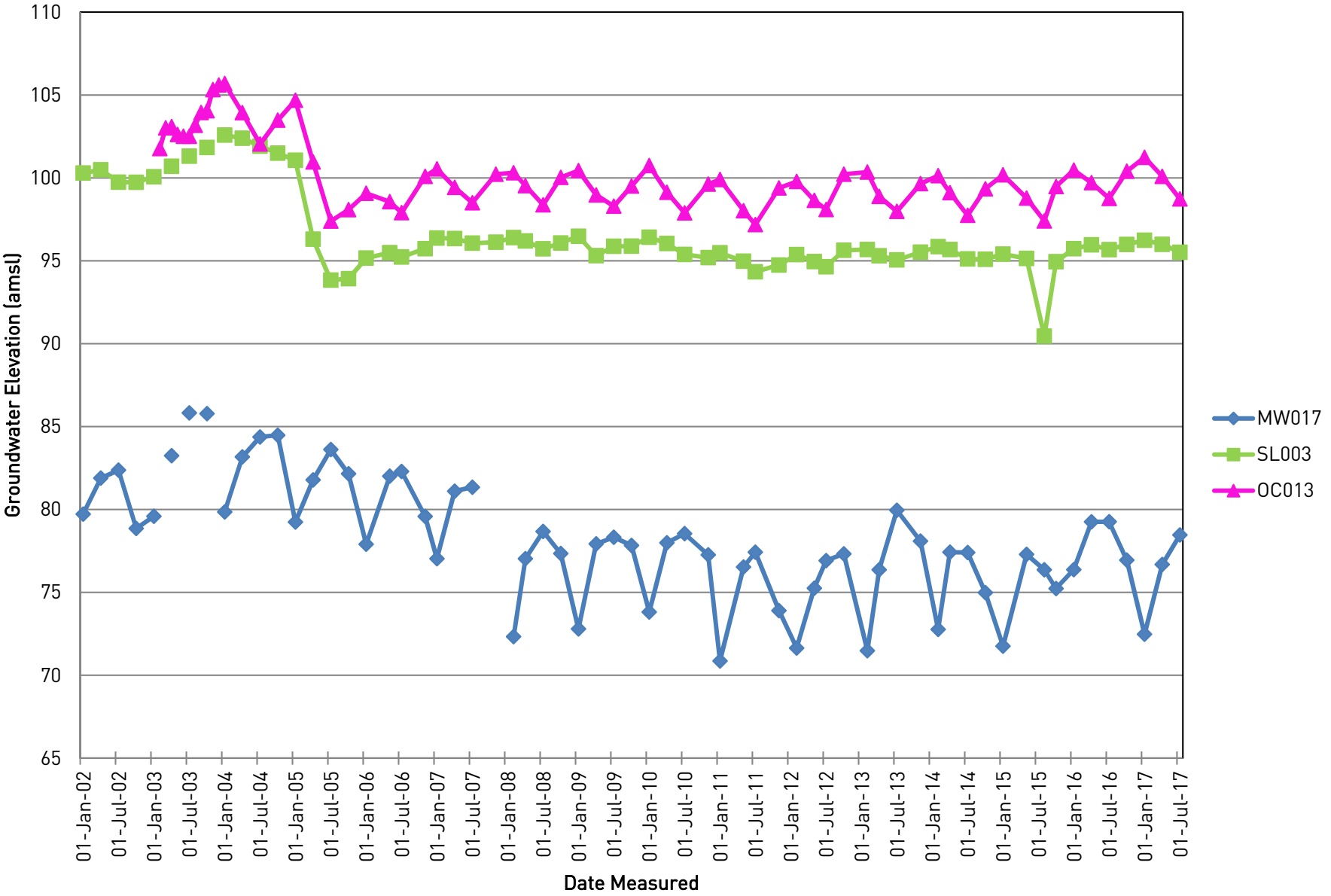
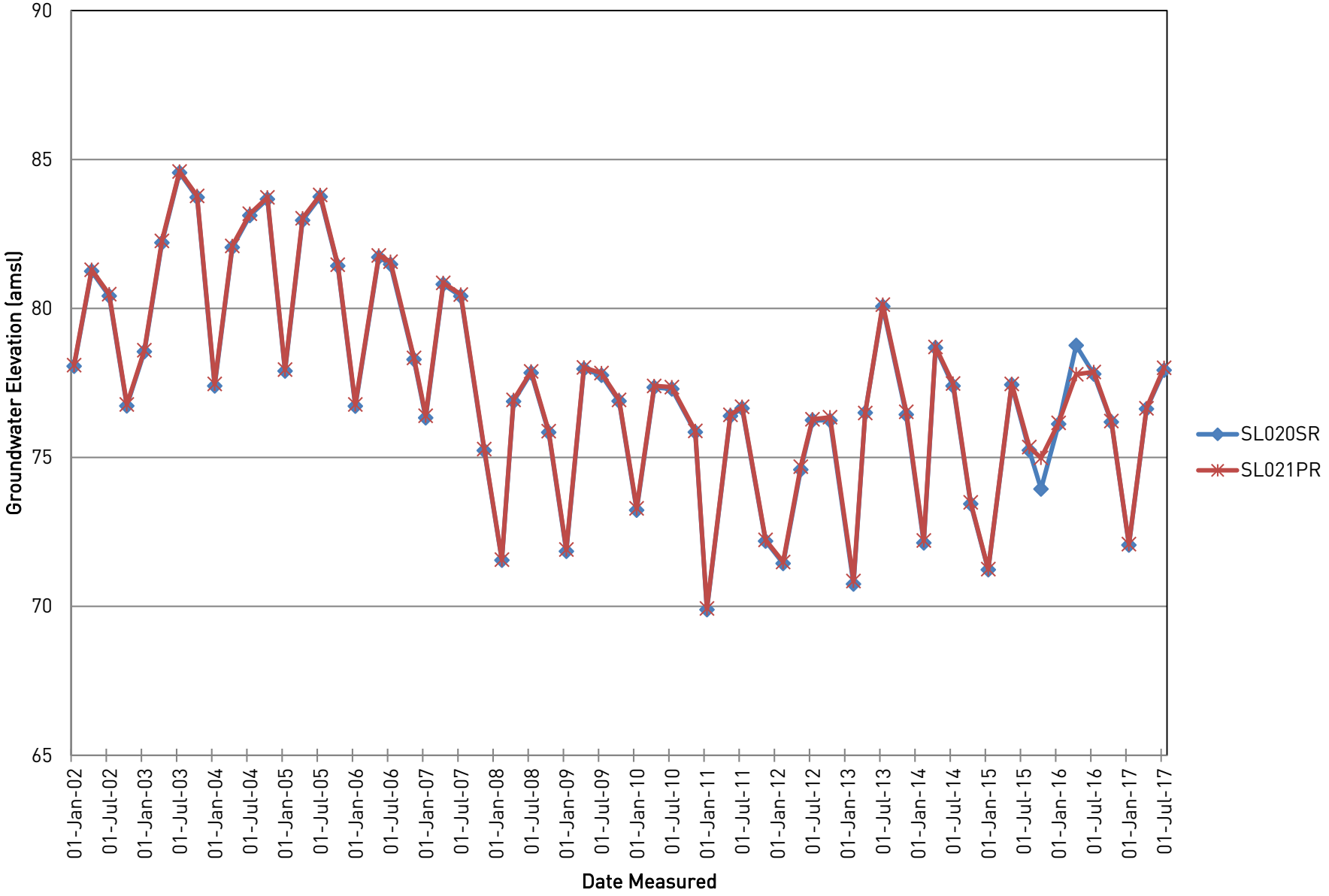


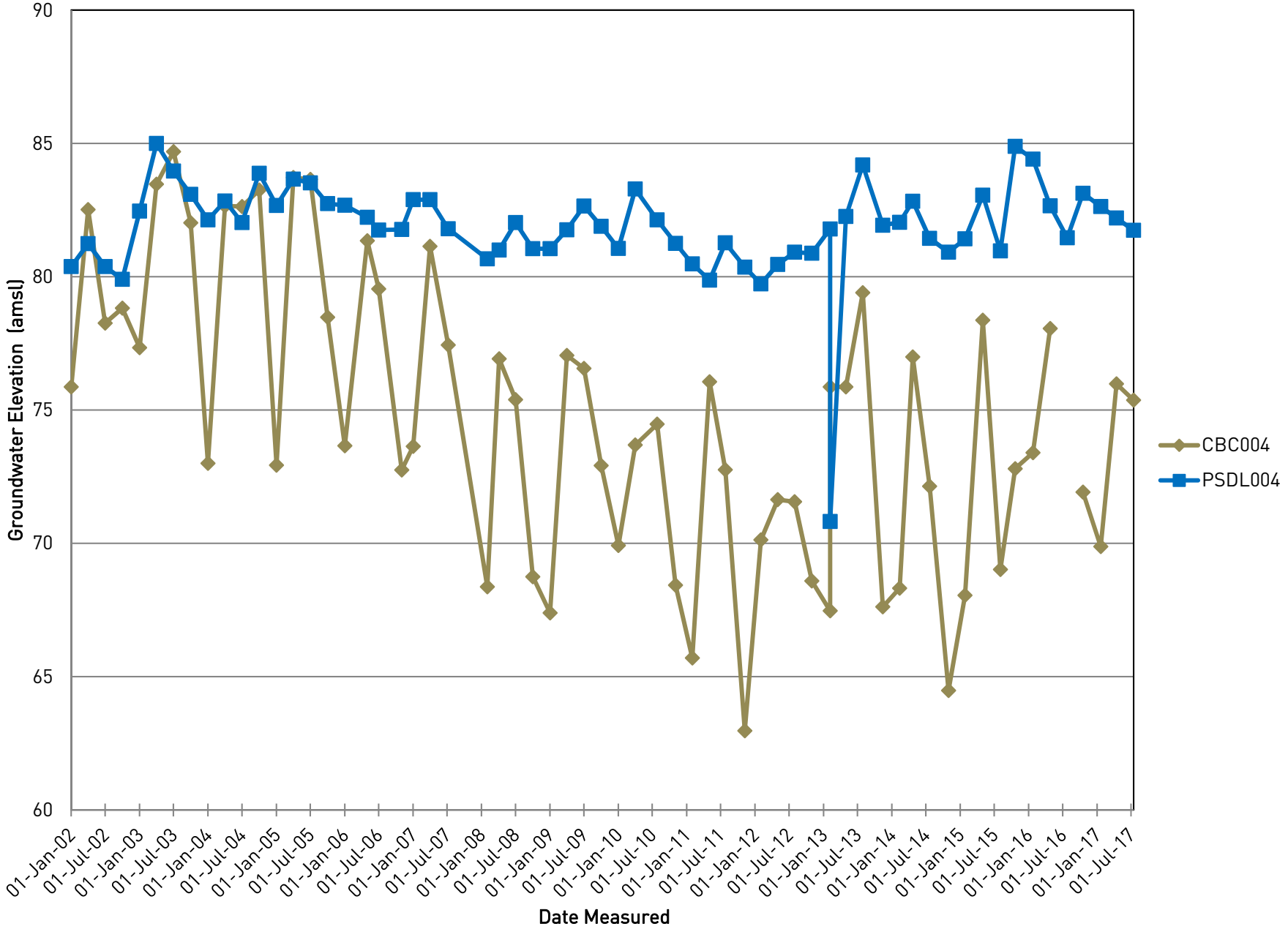
Hydrographs



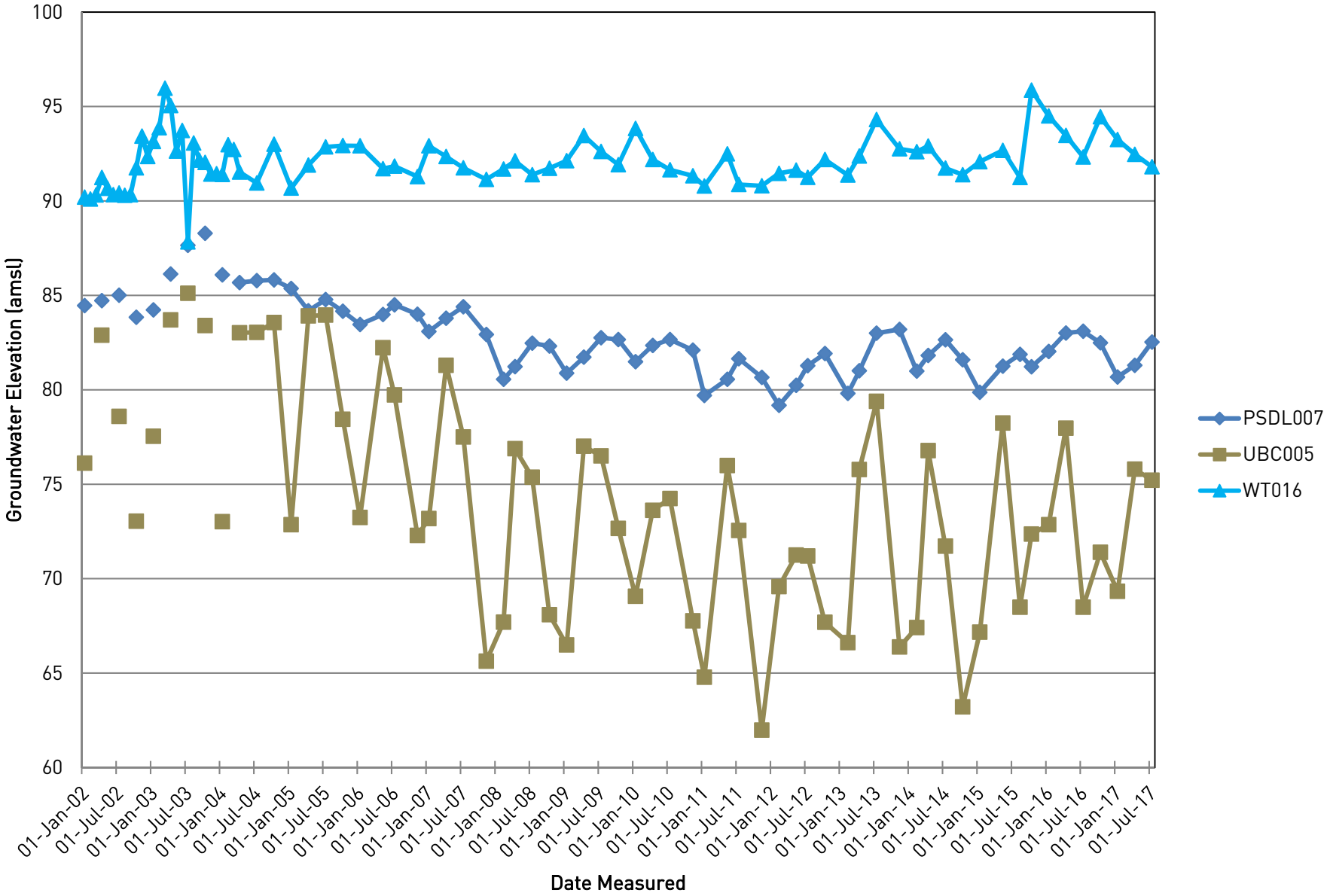
Hydrographs



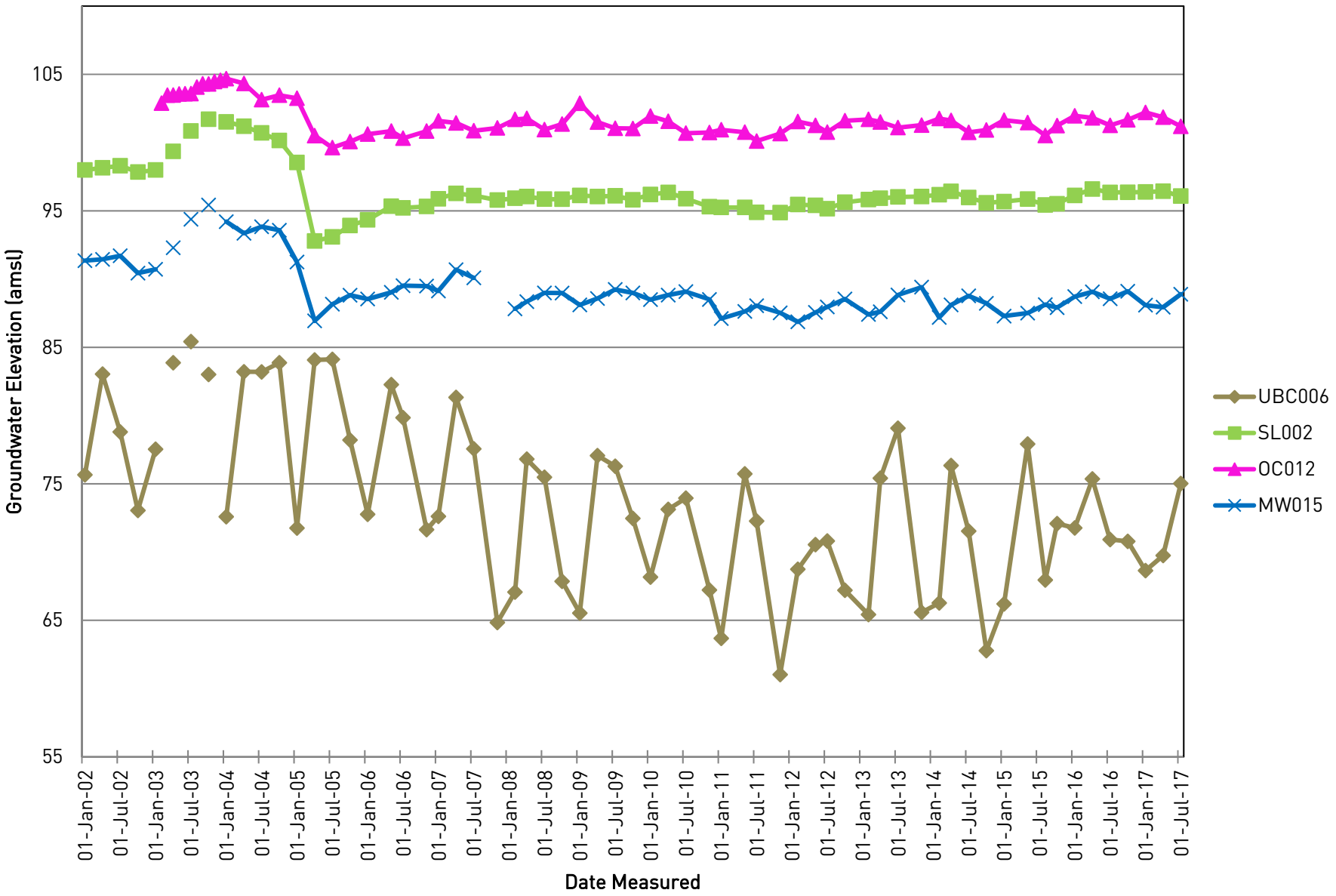
Hydrographs



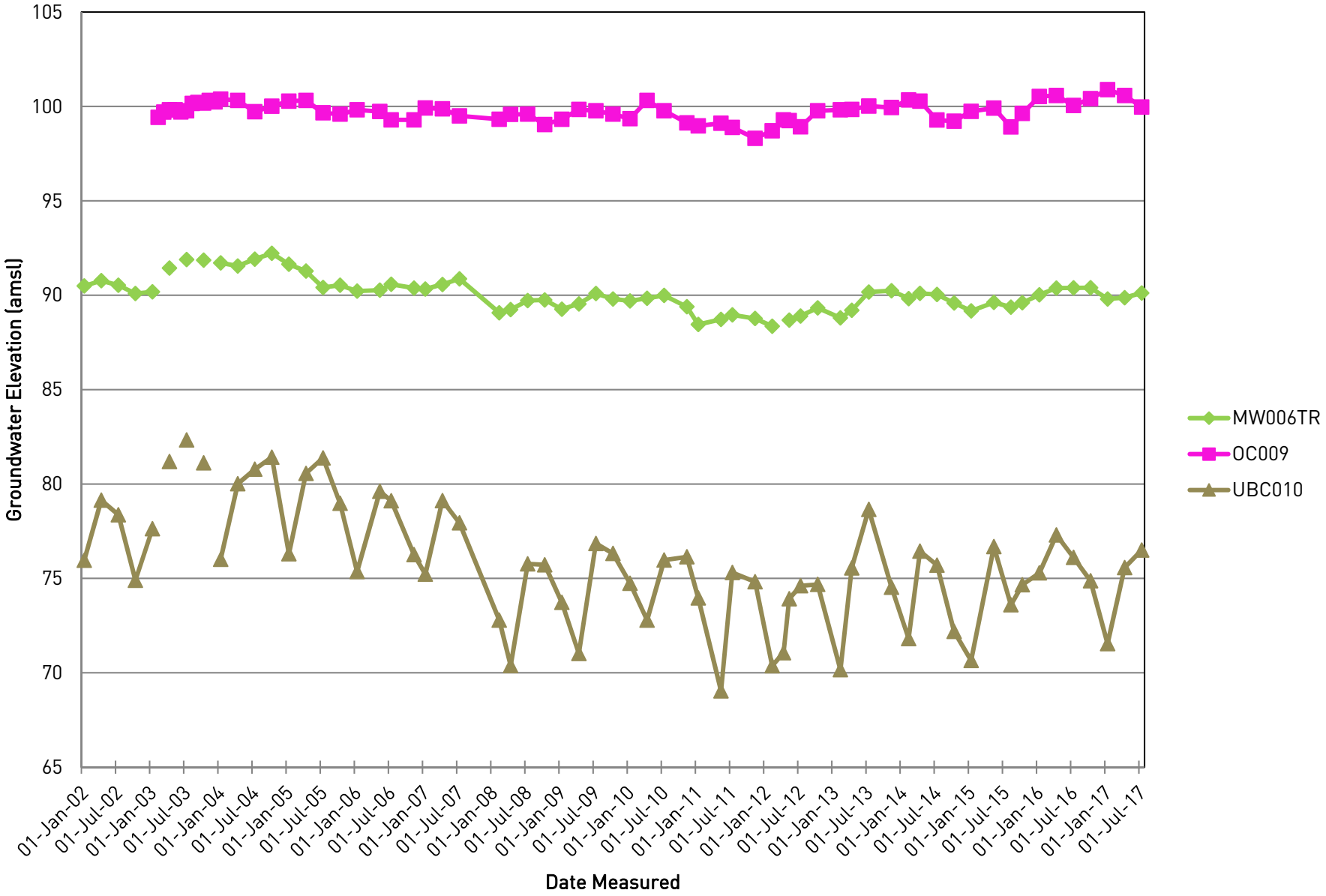
Hydrographs



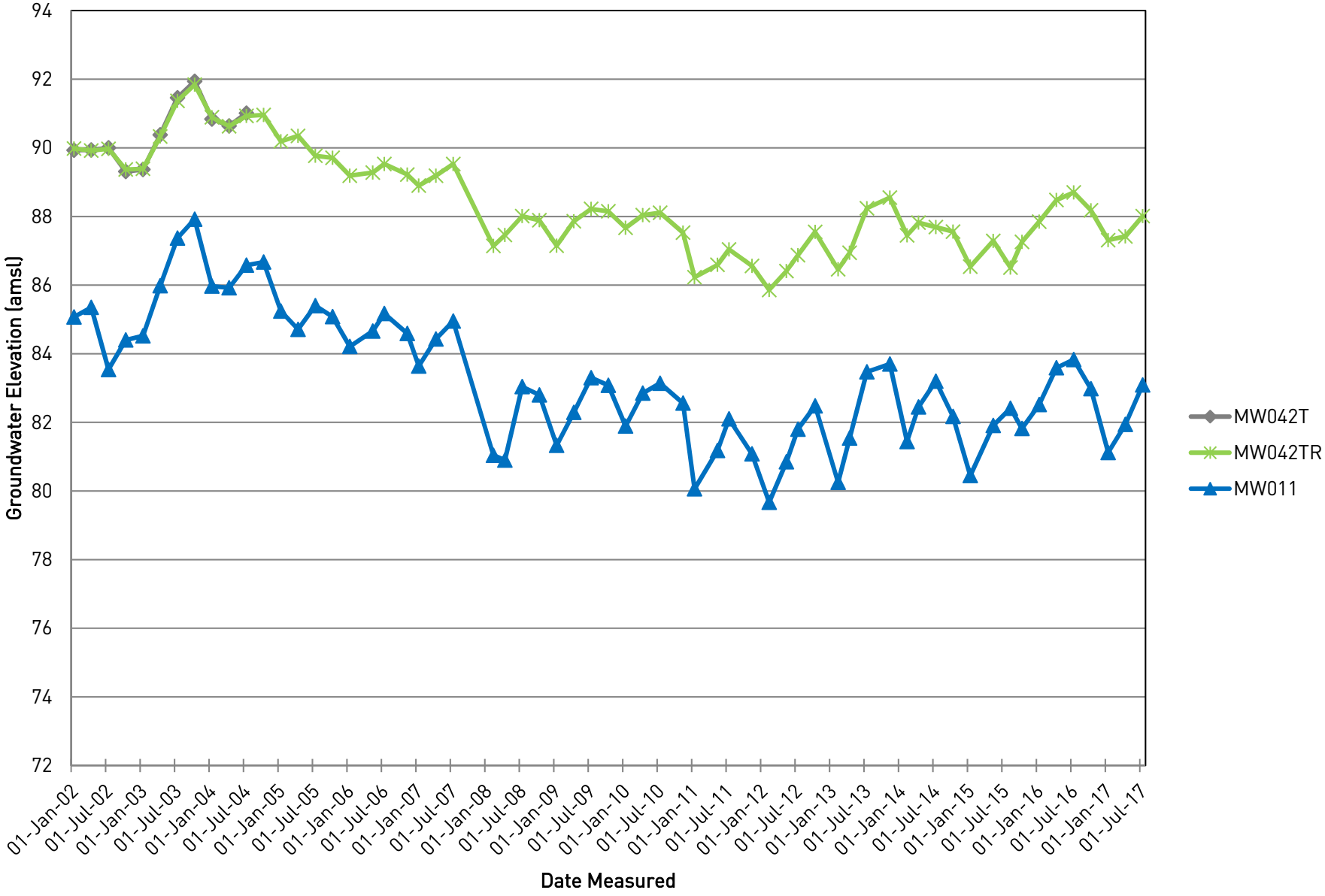
Hydrographs



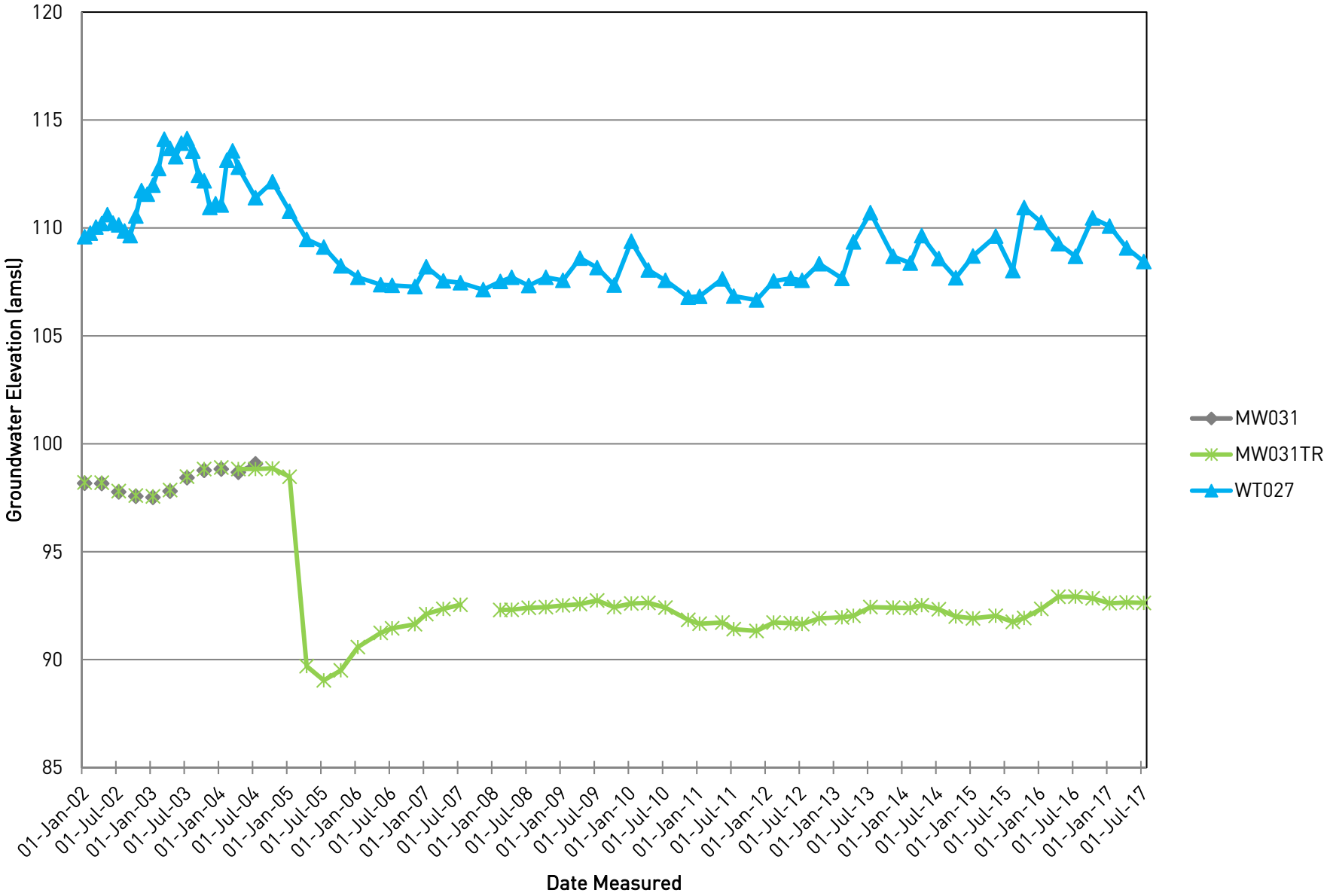
Hydrographs



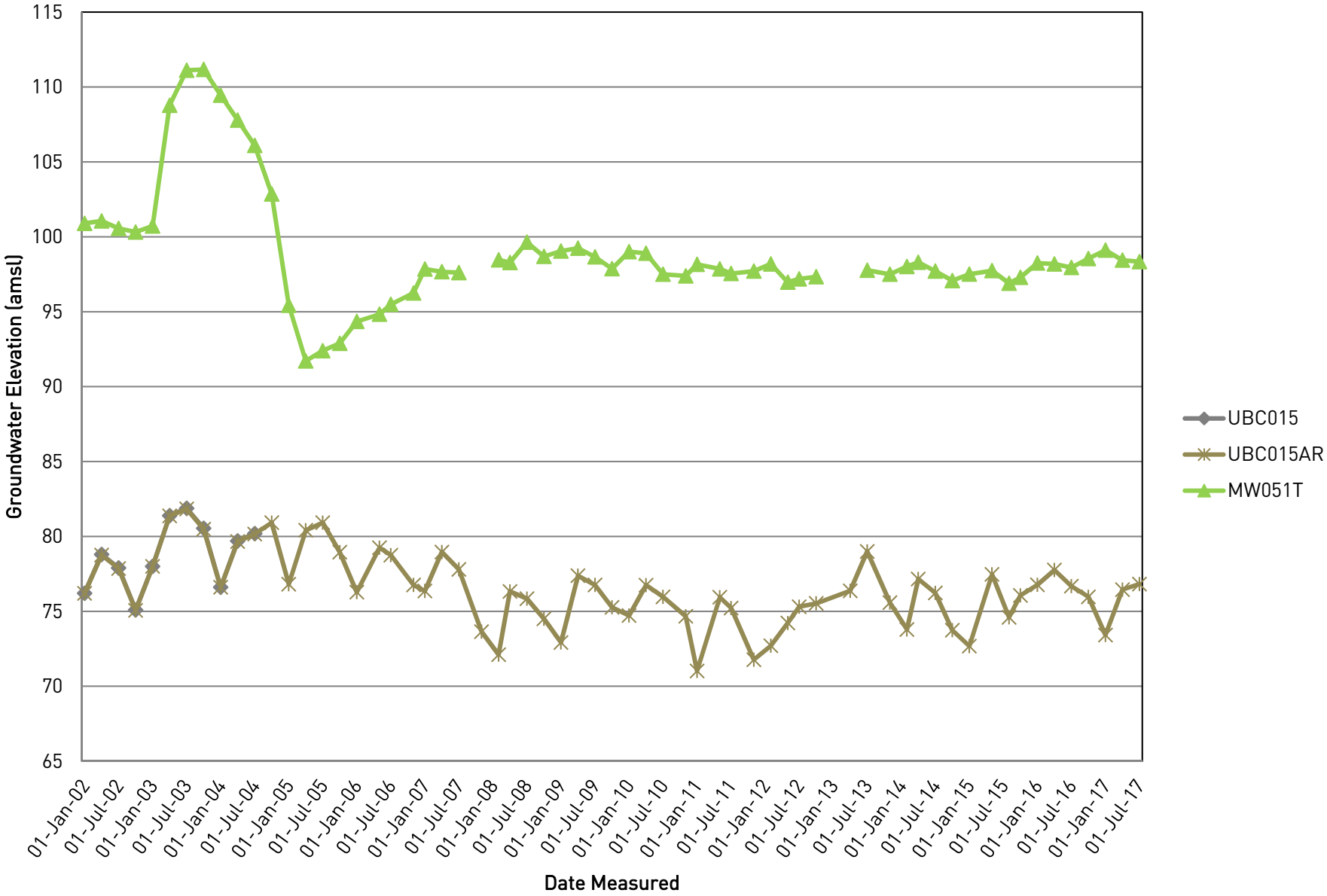
Hydrographs



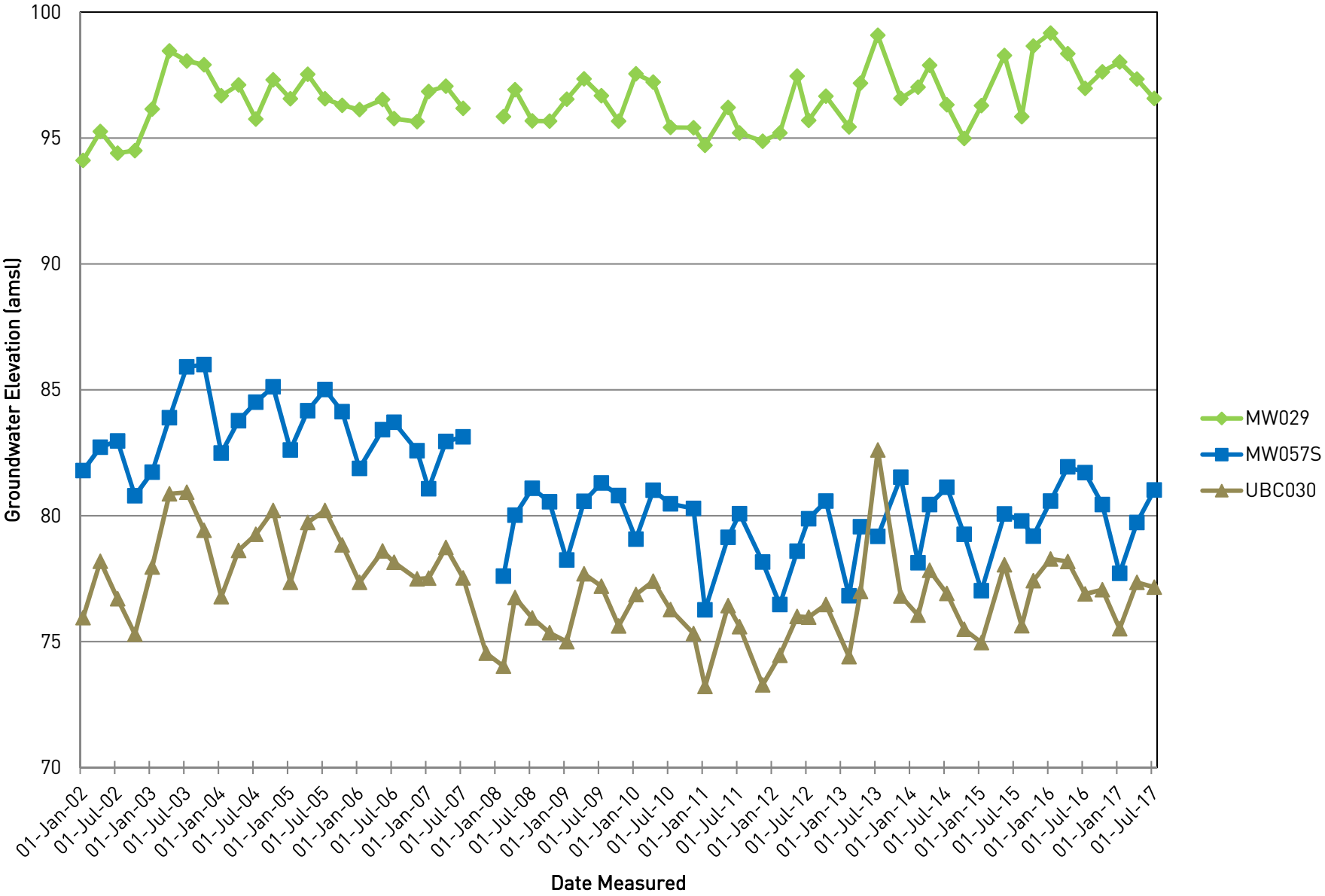
Hydrographs



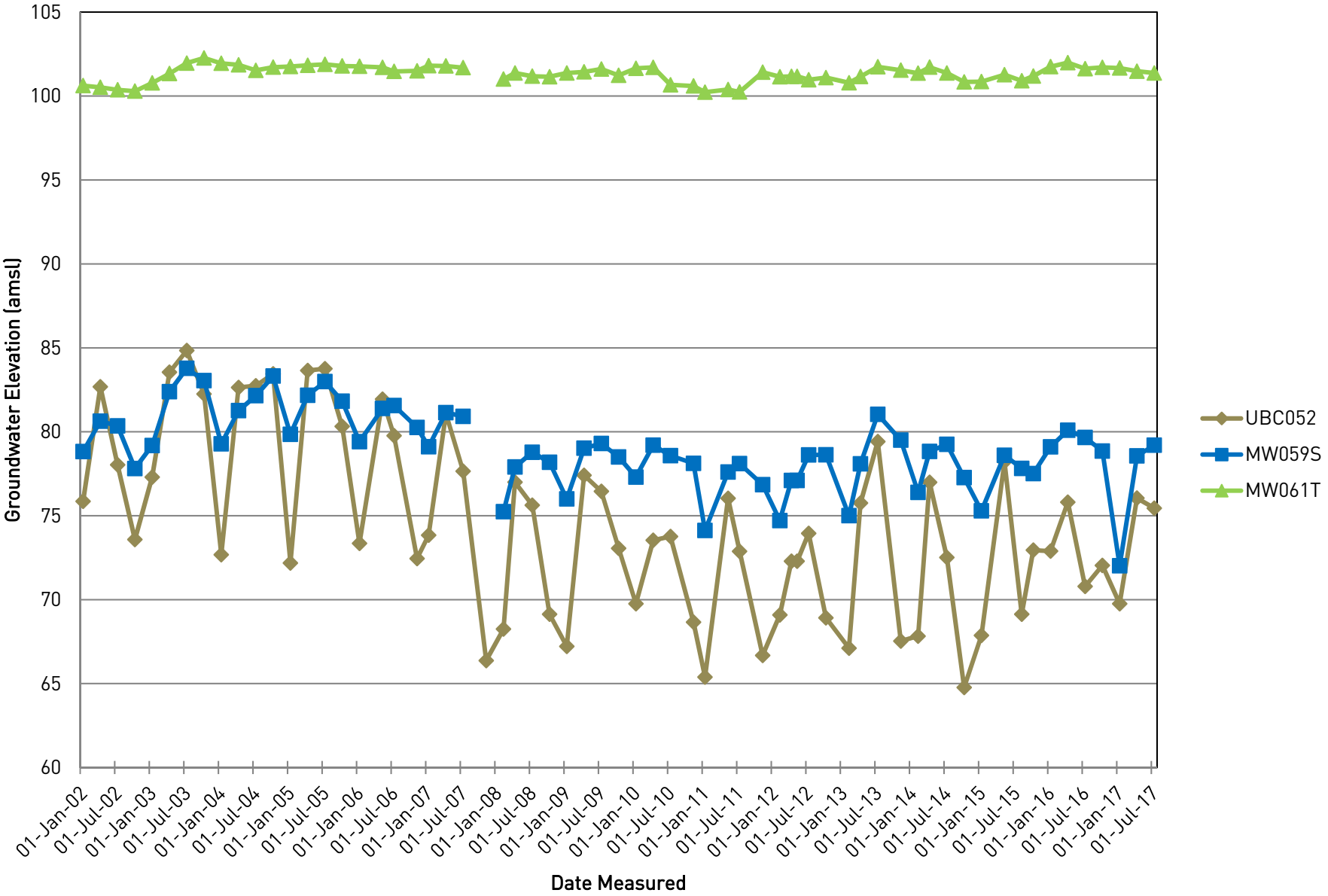
Hydrographs



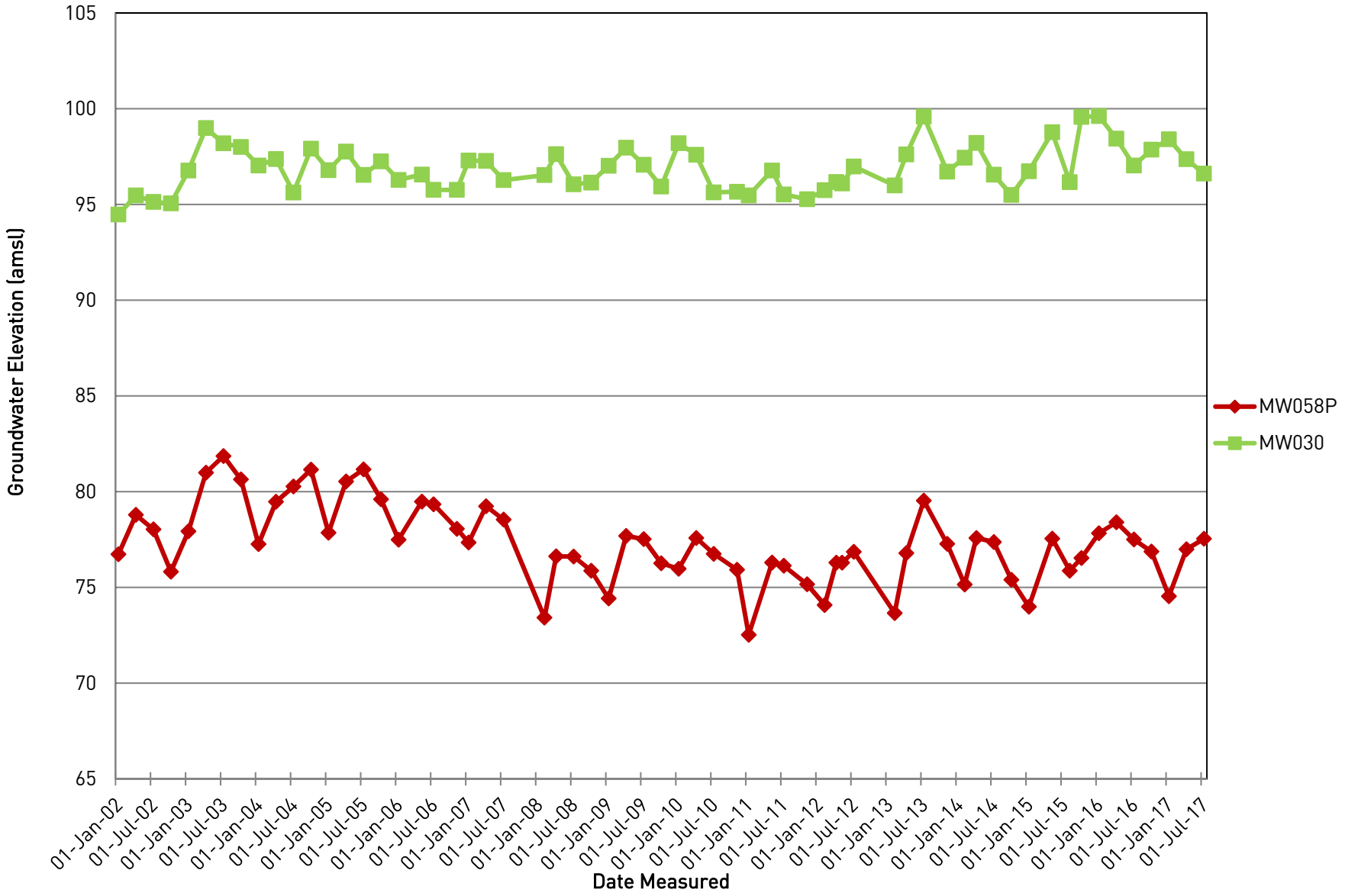
Hydrographs



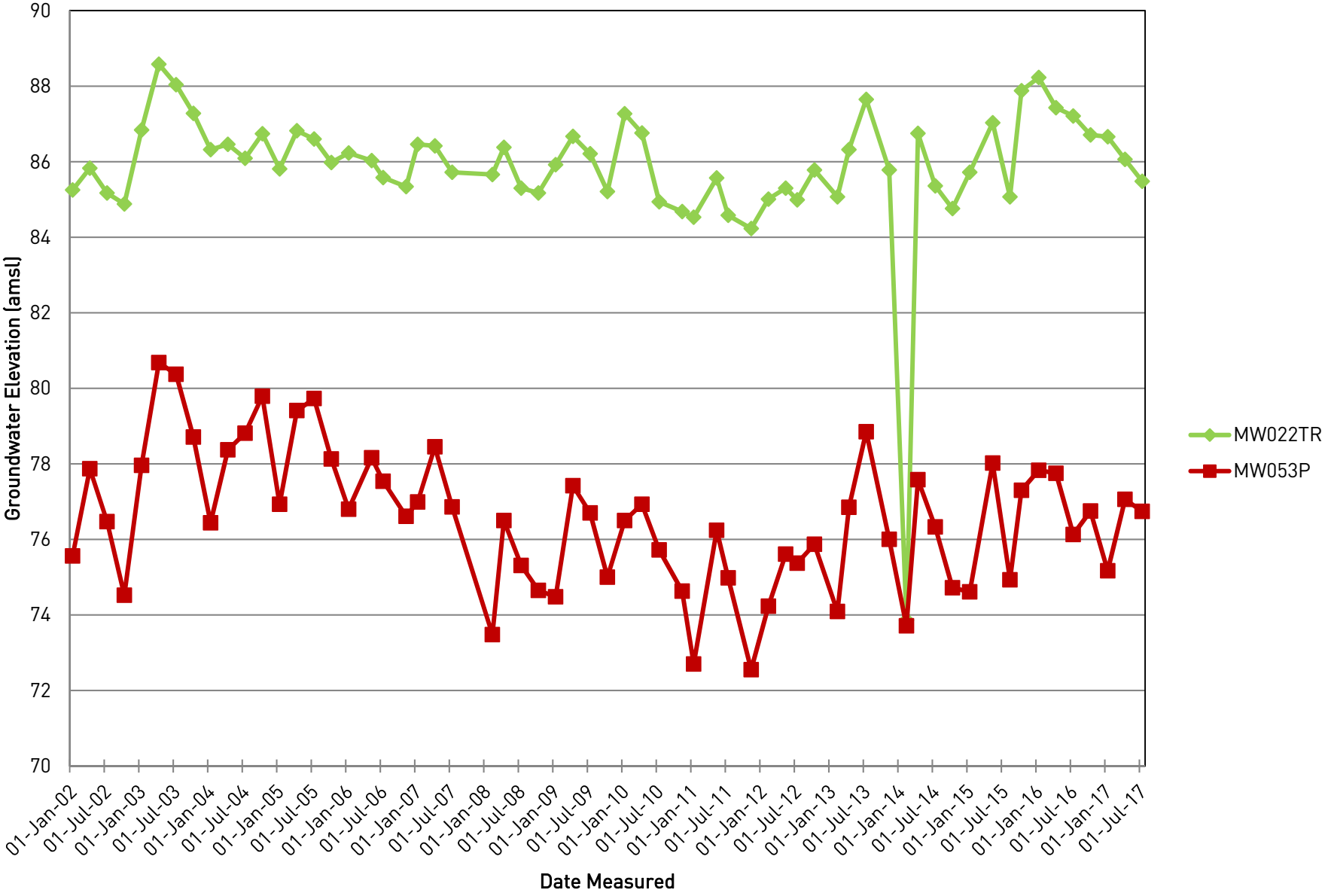
Hydrographs



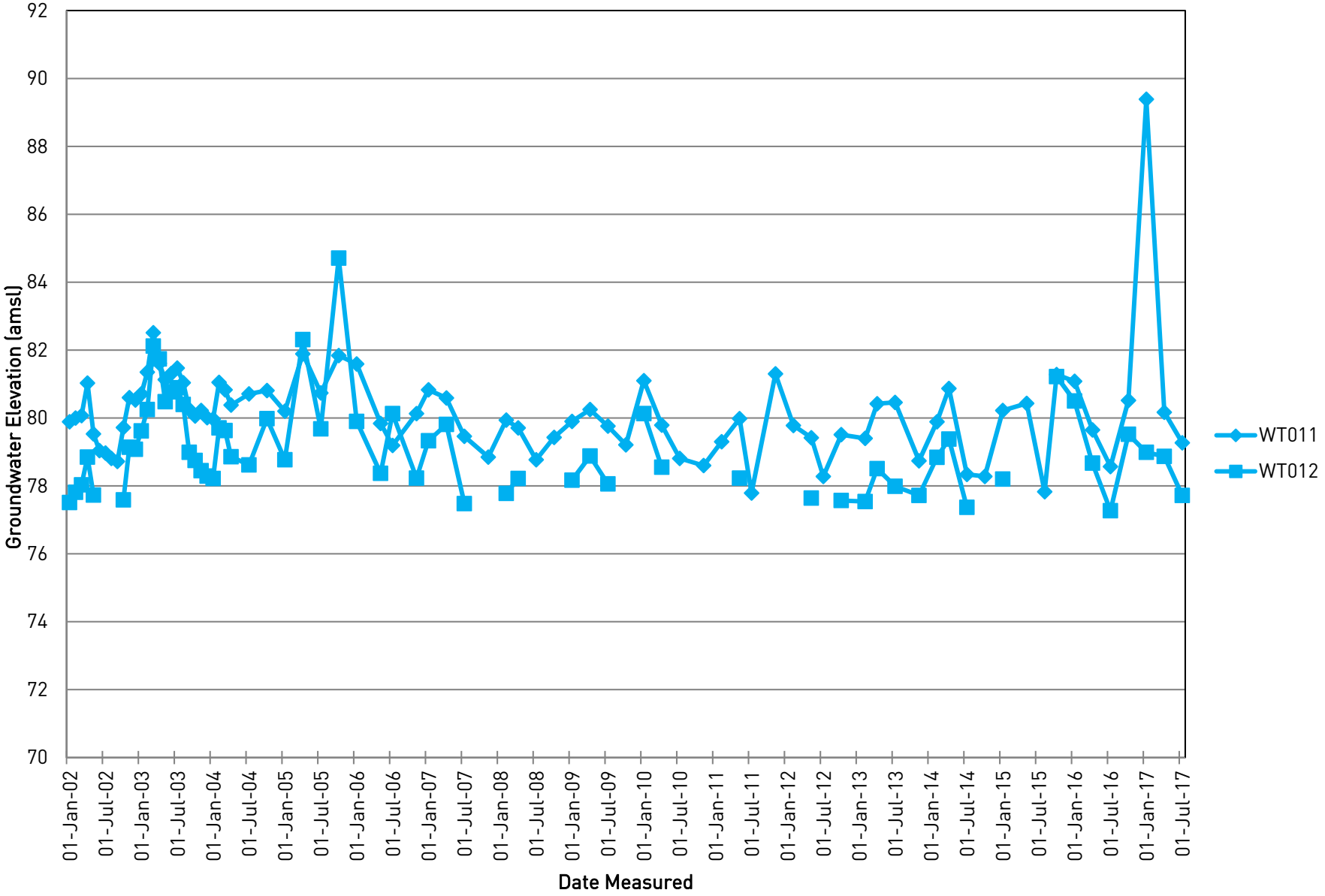
Hydrographs



Hydrographs



Hydrographs



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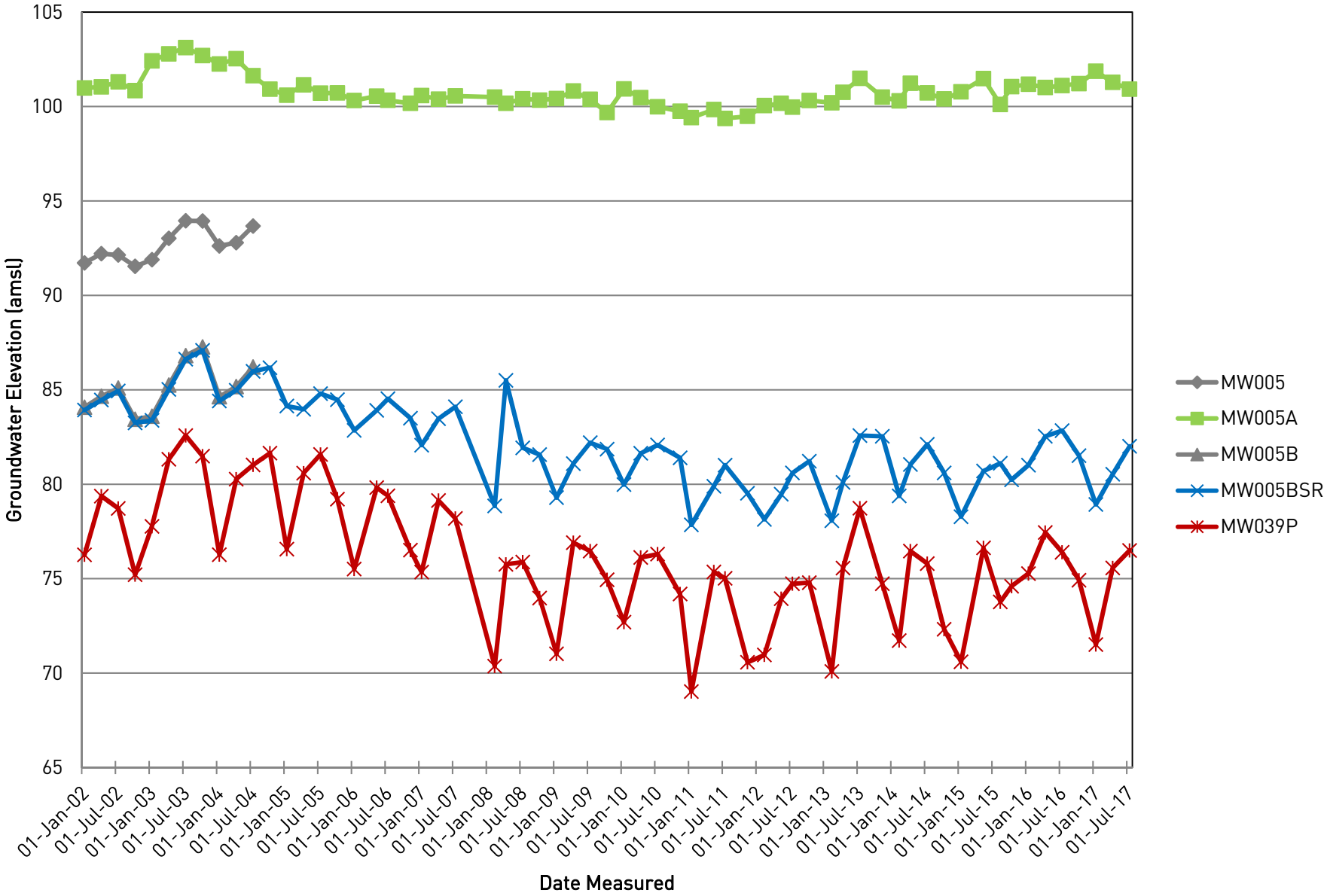
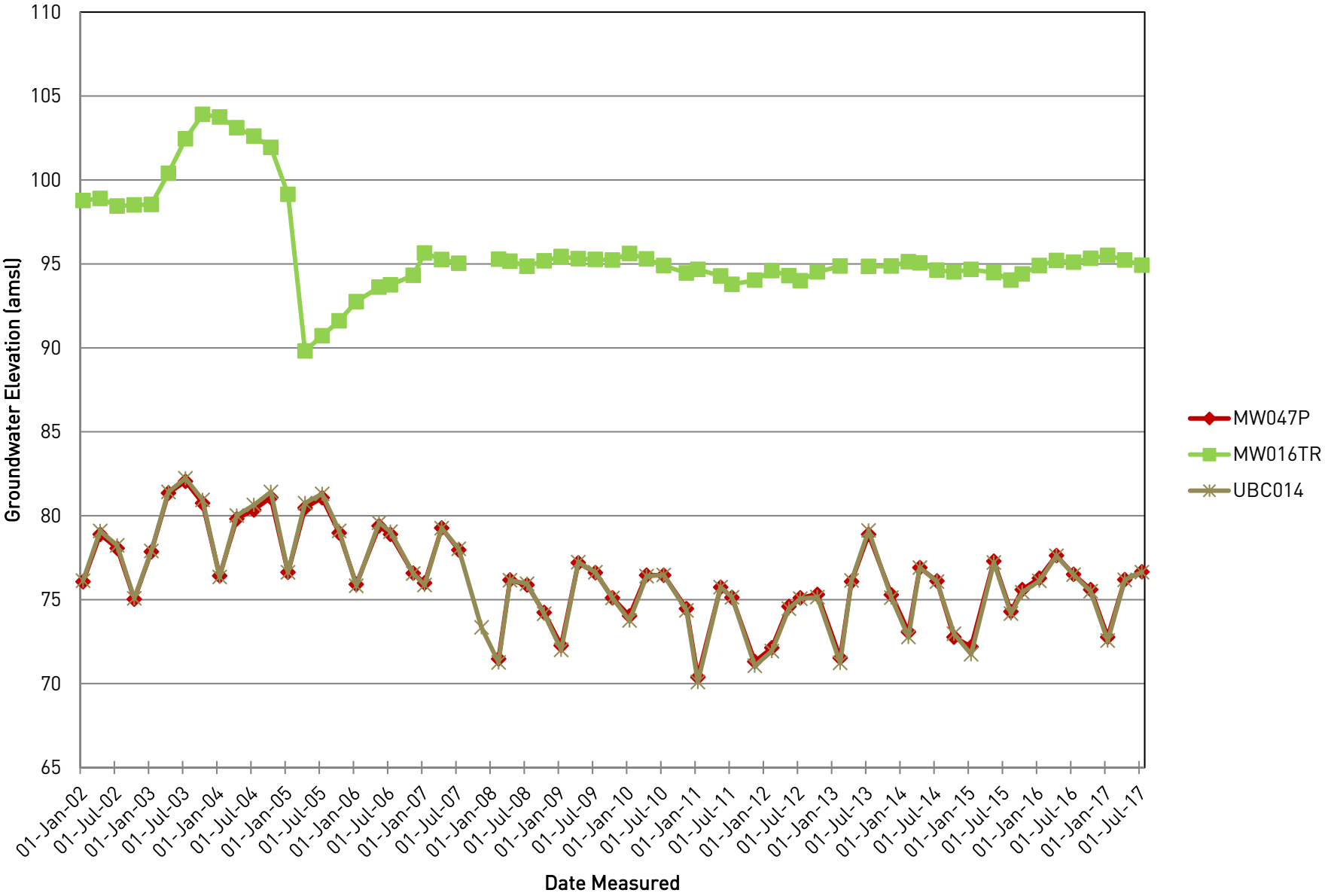
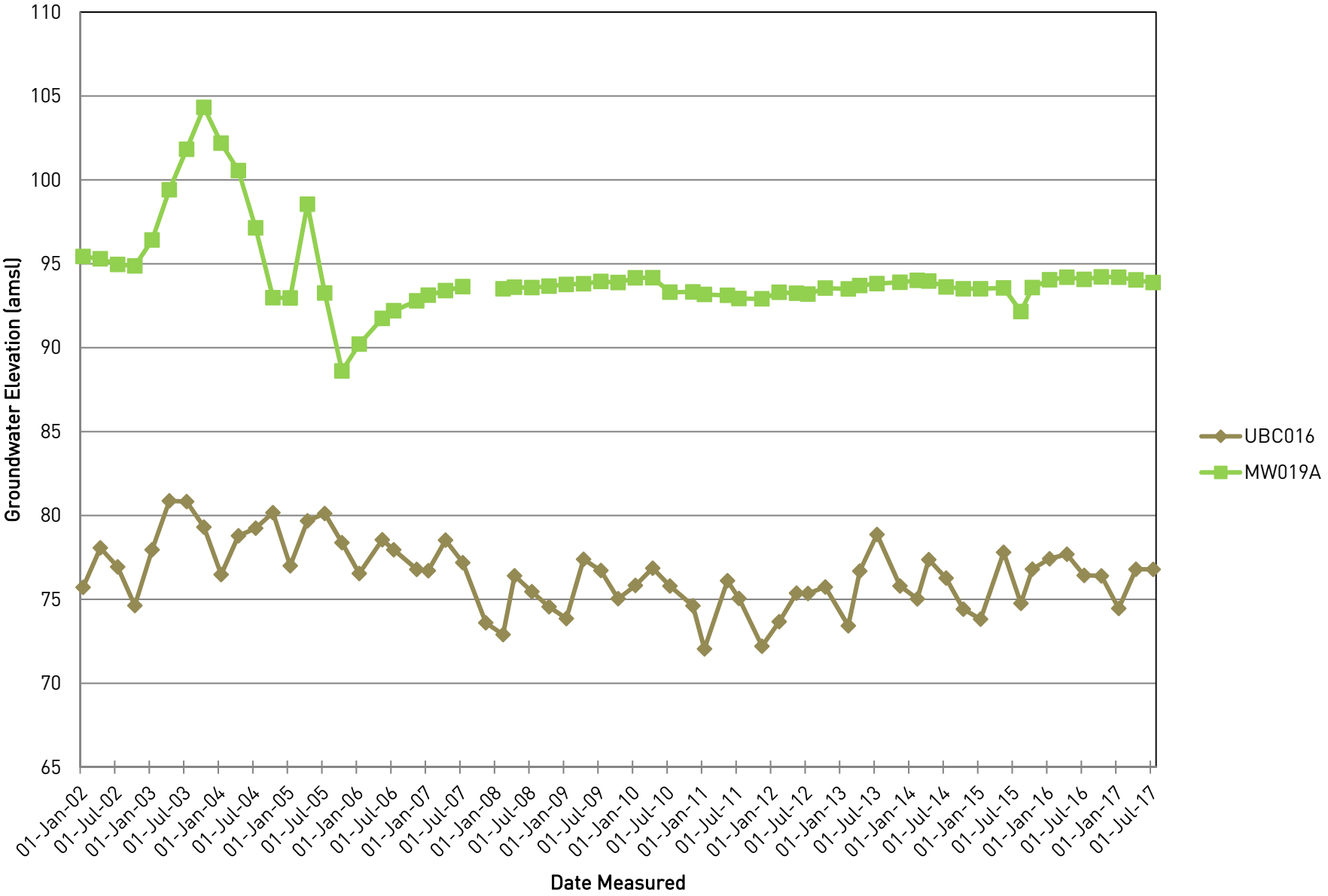


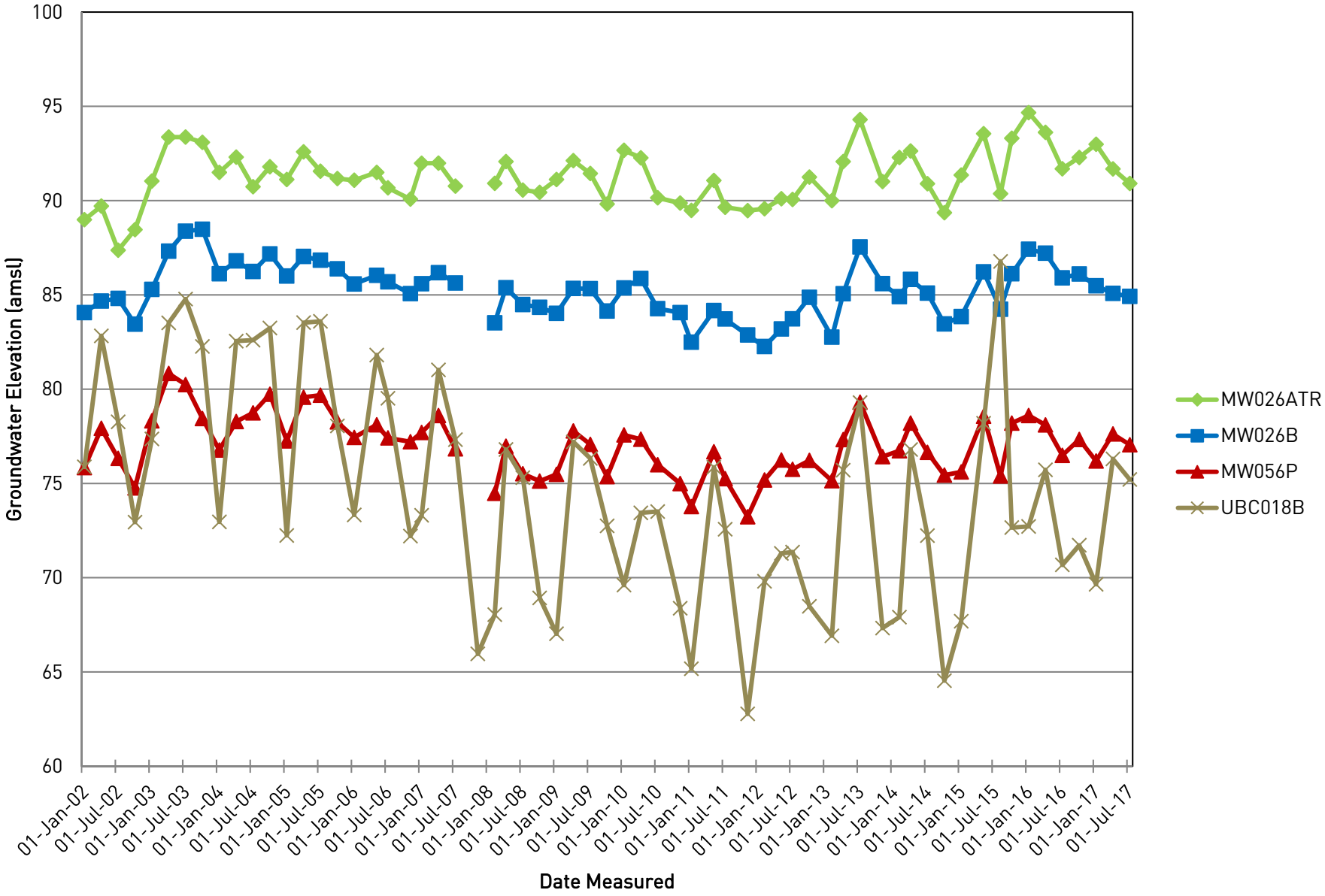
Hydrographs



Hydrographs



Hydrographs



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VERTICAL GRADIENT

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SMITH+GARDNER

Vertical Gradient Calculations
MW026ATR and MW026B

By: BJW
Date: 10/20/2017

Date	Well ID		Vertical Gradient
	MW026ATR	MW026B	
1/1/2002	88.99	84.06	0.2853
4/1/2002	89.71	84.67	0.2917
7/1/2002	87.37	84.81	0.1481
10/1/2002	88.46	83.45	0.2899
1/1/2003	91.04	85.29	0.3328
4/1/2003	93.37	87.32	0.3501
7/1/2003	93.37	88.38	0.2888
10/1/2003	93.09	88.48	0.2668
1/1/2004	91.50	86.12	0.3113
4/1/2004	92.31	86.80	0.3189
7/1/2004	90.74	86.24	0.2604
10/1/2004	91.80	87.17	0.2679
1/1/2005	91.12	86.00	0.2963
4/1/2005	92.59	87.04	0.3212
7/1/2005	91.56	86.84	0.2731
10/1/2005	91.17	86.38	0.2772
1/1/2006	91.08	85.58	0.3183
5/1/2006	91.50	86.04	0.3160
7/1/2006	90.68	85.69	0.2888
11/1/2006	90.08	85.07	0.2899
1/1/2007	91.98	85.59	0.3698
4/1/2007	91.99	86.18	0.3362
7/7/2007	90.77	85.63	0.2975
2/1/2008	90.92	83.52	0.4282
4/4/2008	92.07	85.38	0.3872
7/1/2008	90.56	84.49	0.3513
10/1/2008	90.44	84.34	0.3530
1/1/2009	91.12	84.02	0.4109
4/1/2009	92.12	85.34	0.3924
7/1/2009	91.44	85.33	0.3536
10/1/2009	89.82	84.14	0.3287
1/1/2010	92.67	85.37	0.4225
4/1/2010	92.27	85.87	0.3704
7/27/2010	90.15	84.27	0.3403
11/2/2010	89.87	84.06	0.3362
1/31/2011	89.48	82.49	0.4045
5/3/2011	91.07	84.17	0.3993
7/26/2011	89.65	83.72	0.3432
11/7/2011	89.47	82.87	0.3819
2/29/2012	89.57	82.26	0.4230
5/1/2012	90.10	83.19	0.3999
7/30/2012	90.06	83.73	0.3663
10/30/2012	91.25	84.87	0.3692
2/5/2013	90.00	82.76	0.4190
4/30/2013	92.07	85.06	0.4057
7/29/2013	94.30	87.54	0.3912
11/13/2013	91.37	85.60	0.3339
2/11/2014	92.29	84.91	0.4271
4/22/2014	92.63	85.82	0.3941
7/21/2014	90.90	85.09	0.3362
10/30/2014	89.36	83.46	0.3414
1/26/2015	91.36	83.85	0.4346
5/1/2015	93.55	86.22	0.4242
8/3/2015	90.37	84.24	0.3547
10/21/2015	93.31	86.12	0.4161
1/24/2016	94.67	87.42	0.4196
4/25/2016	93.62	87.21	0.3709
7/25/2016	91.69	85.90	0.3351
10/17/2016	92.29	86.11	0.3576
1/20/2017	92.99	85.48	0.4346
4/14/2017	91.68	85.08	0.3819
7/14/2017	90.91	84.92	0.3466
		Average:	**0.3497**

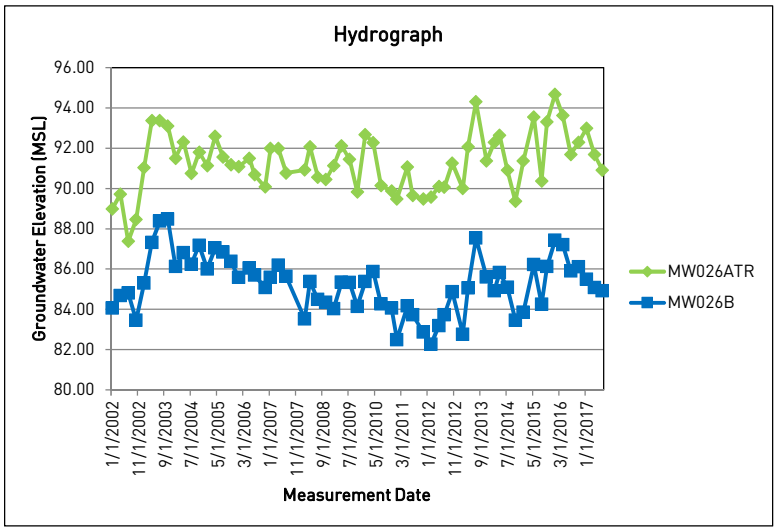
Well ID	Aquifer	TOC Elevation	Ground Elevation	Top of Screen	Bottom of Screen	Midpoint of Screen
MW026ATR	TLS	135.52	131.83	85.83	80.83	83.33
MW026B	SSDL	135.64	132.05	76.05	56.05	66.05

TOC = Top of Well Casing

Vertical Gradient calculated using the following equation:

$$\frac{\text{(GWE Shallow Well - GWE Deep Well)}}{\text{(Shallow Screen midpoint - Deep Screen midpoint)}}$$

Where:
GWE= Groundwater Elevation



SMITH+GARDNER

Vertical Gradient Calculations
MW026B and MW056P

By: BJW
Date: 10/20/2017

Date	Well ID		Vertical Gradient
	MW026B	MW056P	
1/1/2002	84.06	75.84	0.4319
4/1/2002	84.67	77.92	0.3547
7/1/2002	84.81	76.33	0.4456
10/1/2002	83.45	74.76	0.4566
1/1/2003	85.29	78.32	0.3663
4/1/2003	87.32	80.83	0.3410
7/1/2003	88.38	80.24	0.4277
10/1/2003	88.48	78.44	0.5276
1/1/2004	86.12	76.77	0.4913
4/1/2004	86.80	78.28	0.4477
7/1/2004	86.24	78.74	0.3941
10/1/2004	87.17	79.73	0.3910
1/1/2005	86.00	77.25	0.4598
4/1/2005	87.04	79.57	0.3925
7/1/2005	86.84	79.68	0.3762
10/1/2005	86.38	78.26	0.4267
1/1/2006	85.58	77.44	0.4277
5/1/2006	86.04	78.11	0.4167
7/1/2006	85.69	77.41	0.4351
11/1/2006	85.07	77.21	0.4130
1/1/2007	85.59	77.70	0.4146
4/1/2007	86.18	78.60	0.3983
7/7/2007	85.63	76.83	0.4624
2/1/2008	83.52	74.47	0.4756
4/4/2008	85.38	76.97	0.4419
7/1/2008	84.49	75.51	0.4719
10/1/2008	84.34	75.12	0.4845
1/1/2009	84.02	75.48	0.4488
4/1/2009	85.34	77.78	0.3973
7/1/2009	85.33	77.07	0.4341
10/1/2009	84.14	75.36	0.4614
1/1/2010	85.37	77.57	0.4099
4/1/2010	85.87	77.34	0.4482
7/27/2010	84.27	75.99	0.4351
11/2/2010	84.06	74.99	0.4766
1/31/2011	82.49	73.77	0.4582
5/3/2011	84.17	76.68	0.3936
7/26/2011	83.72	75.25	0.4451
11/7/2011	82.87	73.23	0.5066
2/29/2012	82.26	75.18	0.3720
5/1/2012	83.19	76.24	0.3652
7/30/2012	83.73	75.75	0.4193
10/30/2012	84.87	76.22	0.4545
2/5/2013	82.76	75.14	0.4004
4/30/2013	85.06	77.32	0.4067
7/29/2013	87.54	79.31	0.4325
11/13/2013	85.60	76.42	0.4824
2/11/2014	84.91	76.73	0.4298
4/22/2014	85.82	78.20	0.4004
7/21/2014	85.09	76.65	0.4435
10/30/2014	83.46	75.44	0.4214
1/26/2015	83.85	75.61	0.4330
5/1/2015	86.22	78.56	0.4025
8/3/2015	84.24	75.39	0.4651
10/21/2015	86.12	78.20	0.4162
1/24/2016	87.42	78.60	0.4635
4/25/2016	87.21	78.60	0.4524
7/25/2016	85.90	76.49	0.4945
10/17/2016	86.11	77.33	0.4614
1/20/2017	85.48	76.19	0.4882
4/14/2017	85.08	77.62	0.3920
7/14/2017	84.92	77.05	0.4136
		Average:	**0.4322**

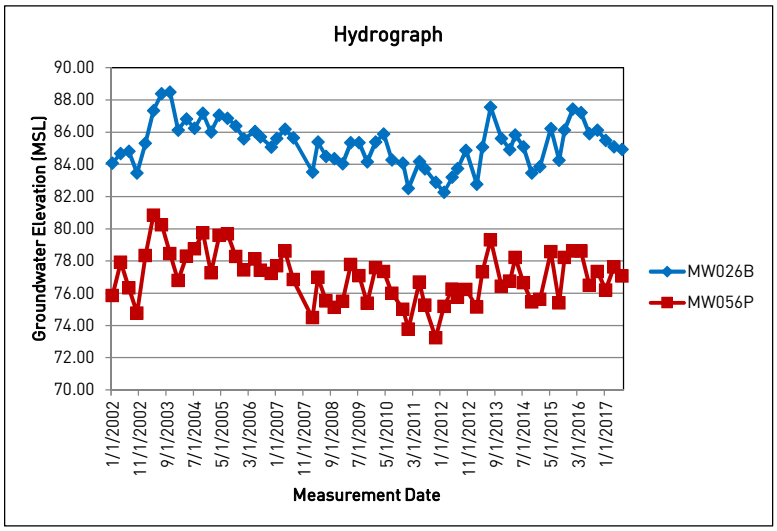
Well ID	Aquifer	TOC Elevation	Ground Elevation	Top of Screen	Bottom of Screen	Midpoint of Screen
MW026B	SSDL	135.64	132.05	76.05	56.05	66.05
MW056P	PSL	135.42	132.02	52.02	42.02	47.02

TOC = Top of Well Casing

Vertical Gradient calculated using the following equation:

$$\frac{\text{(GWE Shallow Well - GWE Deep Well)}}{\text{(Shallow Screen midpoint - Deep Screen midpoint)}}$$

Where:
GWE= Groundwater Elevation



SMITH+GARDNER

Vertical Gradient Calculations
MW056P and UBC018B

By: BJW
Date: 10/20/2017

Date	Well ID		Vertical Gradient
	MW056P	UBC018B	
1/1/2002	75.84	75.88	-0.0011
4/1/2002	77.92	82.83	-0.1390
7/1/2002	76.33	78.27	-0.0549
10/1/2002	74.76	72.95	0.0512
1/1/2003	78.32	77.36	0.0272
4/1/2003	80.83	83.52	-0.0761
7/1/2003	80.24	84.78	-0.1285
10/1/2003	78.44	82.27	-0.1084
1/1/2004	76.77	72.96	0.1078
4/1/2004	78.28	82.55	-0.1209
7/1/2004	78.74	82.60	-0.1093
10/1/2004	79.73	83.24	-0.0993
1/1/2005	77.25	72.24	0.1418
4/1/2005	79.57	83.53	-0.1121
7/1/2005	79.68	83.60	-0.1110
10/1/2005	78.26	78.05	0.0059
1/1/2006	77.44	73.33	0.1163
5/1/2006	78.11	81.81	-0.1047
7/1/2006	77.41	79.52	-0.0597
11/1/2006	77.21	72.21	0.1415
1/1/2007	77.70	73.31	0.1243
4/1/2007	78.60	81.02	-0.0685
7/7/2007	76.83	77.32	-0.0139
2/1/2008	74.47	68.04	0.1820
4/4/2008	76.97	76.80	0.0048
7/1/2008	75.51	75.31	0.0057
10/1/2008	75.12	68.93	0.1752
1/1/2009	75.48	67.03	0.2392
4/1/2009	77.78	77.20	0.0164
7/1/2009	77.07	76.33	0.0209
10/1/2009	75.36	72.75	0.0739
1/1/2010	77.57	69.61	0.2253
4/1/2010	77.34	73.44	0.1104
7/27/2010	75.99	73.51	0.0702
11/2/2010	74.99	68.38	0.1871
1/31/2011	73.77	65.17	0.2434
5/3/2011	76.68	75.86	0.0232
7/26/2011	75.25	72.57	0.0759
11/7/2011	73.23	62.78	0.2958
2/29/2012	75.18	69.81	0.1520
5/1/2012	76.24	71.29	0.1401
7/30/2012	75.75	71.36	0.1243
10/30/2012	76.22	68.48	0.2191
2/5/2013	75.14	66.92	0.2327
4/30/2013	77.32	75.70	0.0459
7/29/2013	79.31	79.29	0.0006
11/13/2013	76.42	67.33	0.2573
2/11/2014	76.73	67.91	0.2496
4/22/2014	78.20	76.80	0.0396
7/21/2014	76.65	72.23	0.1251
10/30/2014	75.44	64.54	0.3085
1/26/2015	75.61	67.69	0.2242
5/1/2015	78.56	78.19	0.0105
8/3/2015	75.39	86.78	-0.3224
10/21/2015	78.20	72.66	0.1568
1/24/2016	78.60	72.72	0.1664
4/25/2016	78.10	78.07	0.0008
7/25/2016	76.49	70.68	0.1644
10/17/2016	77.33	77.18	0.0042
1/20/2017	76.19	69.65	0.1851
4/14/2017	77.62	76.30	0.0374
7/14/2017	77.05	75.21	0.0521
		Average:	**0.0634**

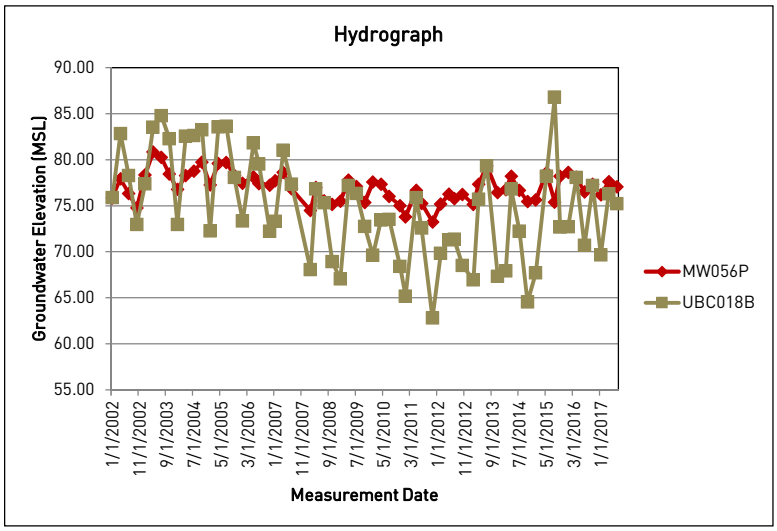
Well ID	Aquifer	TOC Elevation	Ground Elevation	Top of Screen	Bottom of Screen	Midpoint of Screen
MW056P	PSDL	135.42	132.02	52.02	42.02	47.02
UBC018B	UBC	135.58	132.19	14.19	9.19	11.69

TOC = Top of Well Casing

Vertical Gradient calculated using the following equation:

$$\frac{\text{(GWE Shallow Well - GWE Deep Well)}}{\text{(Shallow Screen midpoint - Deep Screen midpoint)}}$$

Where:
GWE= Groundwater Elevation



SMITH+GARDNER

Vertical Gradient Calculations
WT016 and PSDL007

By: BJW
Date: 10/20/2017

Date	Well ID		Vertical Gradient
	WT016	PSDL007	
1/1/2002	90.20	84.46	0.1653
4/1/2002	91.24	84.72	0.1877
7/1/2002	90.42	85.01	0.1558
10/1/2002	91.75	83.84	0.2278
1/1/2003	93.15	84.23	0.2568
4/1/2003	95.05	86.13	0.2568
7/1/2003	87.83	87.65	0.0052
10/1/2003	92.04	88.29	0.1080
1/1/2004	91.40	86.09	0.1529
4/1/2004	91.53	85.68	0.1684
7/1/2004	90.95	85.78	0.1489
10/1/2004	93.00	85.82	0.2067
1/1/2005	90.68	85.37	0.1529
4/1/2005	91.90	84.19	0.2220
7/1/2005	92.86	84.78	0.2327
10/1/2005	92.93	84.16	0.2525
1/1/2006	92.92	83.46	0.2724
5/1/2006	91.71	83.99	0.2223
7/1/2006	91.84	84.50	0.2113
11/1/2006	91.29	84.00	0.2099
1/1/2007	92.92	83.09	0.2830
4/1/2007	92.35	83.79	0.2465
7/7/2007	91.75	84.40	0.2116
11/1/2007	91.14	82.93	0.2364
2/1/2008	91.69	80.56	0.3205
4/4/2008	92.12	81.23	0.3136
7/1/2008	91.39	82.47	0.2568
10/1/2008	91.73	82.32	0.2709
1/1/2009	92.13	80.88	0.3239
4/1/2009	93.46	81.73	0.3377
7/1/2009	92.62	82.76	0.2839
10/1/2009	91.92	82.66	0.2666
1/1/2010	93.84	81.49	0.3556
4/1/2010	92.19	82.35	0.2833
7/27/2010	91.65	82.66	0.2589
11/2/2010	91.33	82.10	0.2658
2/1/2011	90.79	79.70	0.3193
5/3/2011	92.49	80.56	0.3435
7/26/2011	90.87	81.65	0.2655
11/7/2011	90.80	80.66	0.2920
2/29/2012	91.46	79.18	0.3536
5/1/2012	91.63	80.24	0.3280
7/30/2012	91.25	81.28	0.2871
10/30/2012	92.19	81.92	0.2957
2/5/2013	91.37	79.81	0.3329
4/30/2013	92.38	81.01	0.3274
7/29/2013	94.31	83.00	0.3257
11/13/2013	92.76	83.20	0.2753
2/11/2014	92.61	80.99	0.3346
4/22/2014	92.91	81.82	0.3193
7/21/2014	91.74	82.65	0.2617
10/30/2014	91.39	81.59	0.2822
1/26/2015	92.08	79.87	0.3516
5/1/2015	92.68	81.25	0.3291
8/3/2015	91.24	81.88	0.2695
10/21/2015	95.87	81.22	0.4218
1/24/2016	94.50	82.03	0.3591
4/25/2016	93.47	83.01	0.3012
7/25/2016	92.33	83.10	0.2658
10/17/2016	94.46	82.49	0.3447
1/20/2017	93.25	80.68	0.3619
4/14/2017	92.47	81.30	0.3216
7/14/2017	91.81	82.53	0.2672
		Average:	**0.2516**

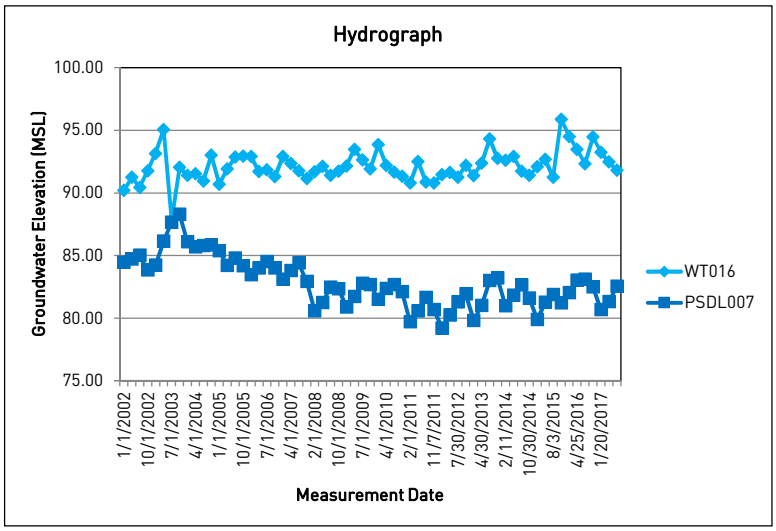
Well ID	Aquifer	TOC Elevation	Ground Elevation	Top of Screen	Bottom of Screen	Midpoint of Screen
WT016	WT	105.90	102.53	94.03	89.03	91.53
PSDL007	SSDL	106.13	101.80	58.80	54.80	56.80

TOC = Top of Well Casing

Vertical Gradient calculated using the following equation:

$$\frac{\text{(GWE Shallow Well - GWE Deep Well)}}{\text{(Shallow Screen midpoint - Deep Screen midpoint)}}$$

Where:
GWE= Groundwater Elevation



SMITH+GARDNER

Vertical Gradient Calculations
PSDL007 and UBC005

By: BJW
Date: 10/20/2017

Date	Well ID		Vertical Gradient
	PSDL007	UBC005	
1/1/2002	84.46	76.12	0.1596
4/1/2002	84.72	82.89	0.0350
7/1/2002	85.01	78.59	0.1228
10/1/2002	83.84	73.04	0.2066
1/1/2003	84.23	77.54	0.1280
4/1/2003	86.13	83.70	0.0465
7/1/2003	87.65	85.11	0.0486
10/1/2003	88.29	83.40	0.0936
1/1/2004	86.09	73.02	0.2500
4/1/2004	85.68	83.02	0.0509
7/1/2004	85.78	83.04	0.0524
10/1/2004	85.82	83.56	0.0432
1/1/2005	85.37	72.86	0.2393
4/1/2005	84.19	83.91	0.0054
7/1/2005	84.78	83.96	0.0157
10/1/2005	84.16	78.44	0.1094
1/1/2006	83.46	73.24	0.1955
5/1/2006	83.99	82.23	0.0337
7/1/2006	84.50	79.73	0.0913
11/1/2006	84.00	72.29	0.2240
1/1/2007	83.09	73.18	0.1896
4/1/2007	83.79	81.30	0.0476
7/7/2007	84.40	77.50	0.1320
11/1/2007	82.93	65.63	0.3310
2/1/2008	80.56	67.70	0.2460
4/4/2008	81.23	76.88	0.0832
7/1/2008	82.47	75.37	0.1358
10/1/2008	82.32	68.09	0.2722
1/1/2009	80.88	66.49	0.2753
4/1/2009	81.73	77.01	0.0903
7/1/2009	82.76	76.50	0.1198
10/1/2009	82.66	72.66	0.1913
1/1/2010	81.49	69.07	0.2376
4/1/2010	82.35	73.62	0.1670
7/27/2010	82.66	74.24	0.1611
11/2/2010	82.10	67.77	0.2742
2/1/2011	79.70	64.78	0.2854
5/3/2011	80.56	75.99	0.0874
7/26/2011	81.65	72.55	0.1741
11/7/2011	80.66	61.98	0.3574
2/29/2012	79.18	69.58	0.1837
5/1/2012	80.24	71.25	0.1720
7/30/2012	81.28	71.20	0.1928
10/30/2012	81.92	67.69	0.2722
2/5/2013	79.81	66.61	0.2525
4/30/2013	81.01	75.78	0.1001
7/29/2013	83.00	79.39	0.0691
11/13/2013	83.20	66.38	0.3218
2/11/2014	80.99	67.41	0.2598
4/22/2014	81.82	76.78	0.0964
7/21/2014	82.65	71.72	0.2091
10/30/2014	81.59	63.21	0.3516
1/26/2015	79.87	67.17	0.2430
5/1/2015	81.25	78.24	0.0576
8/3/2015	81.88	68.49	0.2562
10/21/2015	81.22	72.36	0.1695
1/24/2016	82.03	72.86	0.1754
4/25/2016	83.01	77.97	0.0964
7/25/2016	83.10	68.49	0.2795
10/17/2016	82.49	71.40	0.2122
1/20/2017	80.68	69.33	0.2171
4/14/2017	81.30	75.80	0.1052
7/14/2017	82.53	75.21	0.1400
		Average:	**0.1578**

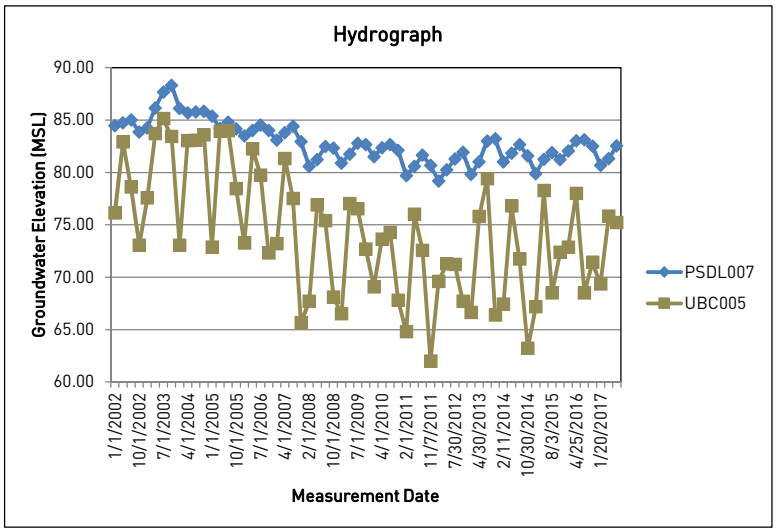
Well ID	Aquifer	TOC Elevation	Ground Elevation	Top of Screen	Bottom of Screen	Midpoint of Screen
PSDL007	SSDL	106.13	101.80	58.80	54.80	56.80
UBC005	UBC	107.49	103.53	9.53	-0.47	4.53

TOC = Top of Well Casing

Vertical Gradient calculated using the following equation:

$$\frac{\text{(GWE Shallow Well - GWE Deep Well)}}{\text{(Shallow Screen midpoint - Deep Screen midpoint)}}$$

Where:
GWE= Groundwater Elevation



SMITH+GARDNER

Vertical Gradient Calculations
OC002 and SL006

By: BJW
Date: 10/20/2017

Date	Well ID		Vertical Gradient
	OC002	SL006	
1/1/2002	98.63	102.11	-0.5421
4/1/2002	98.57	102.05	-0.5421
7/1/2002	98.25	101.72	-0.5405
10/1/2002	98.14	101.62	-0.5421
1/1/2003	98.16	101.66	-0.5452
4/1/2003	102.22	105.74	-0.5483
7/1/2003	103.98	107.49	-0.5467
10/1/2003	105.42	108.93	-0.5467
1/1/2004	104.63	108.18	-0.5530
4/1/2004	103.57	107.05	-0.5421
7/1/2004	102.92	106.47	-0.5530
10/1/2004	102.07	105.52	-0.5374
1/1/2005	97.48	100.94	-0.5389
4/1/2005	91.10	94.40	-0.5140
7/1/2005	91.15	94.62	-0.5405
10/1/2005	91.52	94.96	-0.5358
1/1/2006	92.17	95.60	-0.5343
5/1/2006	93.11	96.55	-0.5358
7/1/2006	93.28	96.72	-0.5358
11/1/2006	93.53	97.29	-0.5857
1/1/2007	93.98	97.46	-0.5421
4/1/2007	94.08	97.66	-0.5576
7/7/2007	94.35	97.82	-0.5405
2/1/2008	94.28	97.76	-0.5421
4/4/2008	94.23	97.67	-0.5358
7/1/2008	94.26	97.73	-0.5405
10/1/2008	94.64	98.11	-0.5405
1/1/2009	94.37	97.84	-0.5405
4/1/2009	94.28	97.72	-0.5358
7/1/2009	94.42	97.87	-0.5374
10/1/2009	94.26	97.69	-0.5343
1/1/2010	93.47	96.91	-0.5358
4/1/2010	92.92	96.44	-0.5483
7/27/2010	93.07	95.94	-0.4470
11/2/2010	92.39	95.84	-0.5374
1/31/2011	90.22	94.64	-0.6885
5/3/2011	91.27	94.70	-0.5343
7/26/2011	91.41	94.82	-0.5312
11/7/2011	90.95	94.35	-0.5296
2/29/2012	90.10	93.52	-0.5327
5/1/2012	90.67	94.10	-0.5343
7/30/2012	91.06	94.49	-0.5343
10/30/2012	91.63	94.86	-0.5031
2/5/2013	90.45	93.87	-0.5327
4/30/2013	90.96	94.38	-0.5327
7/29/2013	91.98	98.40	-1.0000
11/13/2013	91.57	94.96	-0.5280
2/11/2014	90.68	93.93	-0.5062
4/22/2014	78.74	94.60	-2.4704
7/21/2014	91.12	94.49	-0.5249
10/30/2014	89.90	93.23	-0.5187
1/26/2015	89.78	93.19	-0.5312
5/1/2015	90.45	93.86	-0.5312
8/3/2015	90.56	93.97	-0.5312
10/21/2015	90.52	93.91	-0.5280
1/24/2016	90.87	97.24	-0.9922
4/25/2016	91.15	94.52	-0.5249
7/25/2016	91.90	95.28	-0.5265
10/17/2016	91.87	95.18	-0.5156
1/20/2017	90.87	94.32	-0.5374
4/14/2017	90.97	94.39	-0.5327
7/14/2017	91.67	95.02	-0.5218
		Average:	**-0.5831**

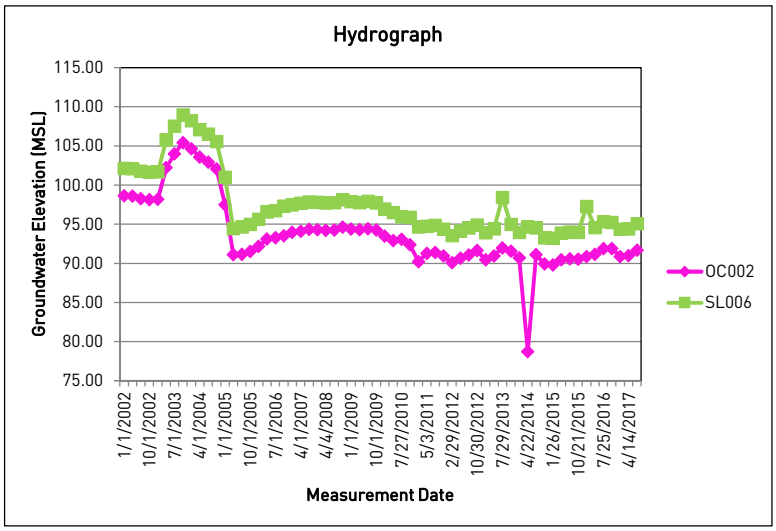
Well ID	Aquifer	TOC Elevation	Ground Elevation	Top of Screen	Bottom of Screen	Midpoint of Screen
OC002	OC	123.47	119.97	79.97	74.97	77.47
SL006	TLS	122.82	119.55	73.55	68.55	71.05

TOC = Top of Well Casing

Vertical Gradient calculated using the following equation:

$$\frac{\text{(GWE Shallow Well - GWE Deep Well)}}{\text{(Shallow Screen midpoint - Deep Screen midpoint)}}$$

Where:
GWE= Groundwater Elevation



SMITH+GARDNER

Vertical Gradient Calculations
SL006 and SL007

By: BJW
Date: 10/20/2017

Date	Well ID		Vertical Gradient
	SL006	SL007	
1/1/2002	102.11	75.91	1.3266
4/1/2002	102.05	78.31	1.2020
7/1/2002	101.72	78.64	1.1686
10/1/2002	101.62	74.97	1.3494
1/1/2003	101.66	75.96	1.3013
4/1/2003	105.74	79.59	1.3241
7/1/2003	107.49	79.11	1.4370
10/1/2003	108.93	81.89	1.3691
1/1/2004	108.18	75.76	1.6415
4/1/2004	107.05	79.55	1.3924
7/1/2004	106.47	80.68	1.3058
10/1/2004	105.52	80.81	1.2511
1/1/2005	100.94	75.22	1.3023
4/1/2005	94.40	79.06	0.7767
7/1/2005	94.62	80.50	0.7149
10/1/2005	94.96	78.55	0.8309
1/1/2006	95.60	74.16	1.0856
5/1/2006	96.55	78.65	0.9063
7/1/2006	96.72	78.80	0.9073
11/1/2006	97.29	75.85	1.0856
1/1/2007	97.46	73.51	1.2127
4/1/2007	97.66	77.78	1.0066
7/7/2007	97.82	77.72	1.0177
11/1/2007	97.66	73.28	1.2344
2/1/2008	97.76	68.63	1.4749
4/4/2008	97.67	73.62	1.2177
7/1/2008	97.73	75.08	1.1468
10/1/2008	98.11	73.59	1.2415
1/1/2009	97.84	69.06	1.4572
4/1/2009	97.72	74.63	1.1691
7/1/2009	97.87	74.86	1.1651
10/1/2009	97.69	74.31	1.1838
1/1/2010	96.91	70.35	1.3448
4/1/2010	96.44	74.65	1.1033
7/27/2010	95.94	74.58	1.0815
11/2/2010	95.84	73.74	1.1190
1/31/2011	94.64	67.26	1.3863
5/3/2011	94.70	73.16	1.0906
7/26/2011	94.82	73.98	1.0552
11/7/2011	94.35	70.16	1.2248
2/29/2012	93.52	68.27	1.2785
5/1/2012	94.10	71.76	1.1311
7/30/2012	94.49	73.49	1.0633
10/30/2012	94.86	73.78	1.0673
2/5/2013	93.87	67.94	1.3129
4/30/2013	94.38	73.16	1.0744
7/29/2013	98.40	77.20	1.0734
11/13/2013	94.96	74.37	1.0425
2/11/2014	93.93	69.32	1.2461
4/22/2014	94.60	75.78	0.9529
7/21/2014	94.49	74.75	0.9995
10/30/2014	93.23	70.77	1.1372
1/26/2015	93.19	68.23	1.2638
5/1/2015	93.86	74.14	0.9985
8/3/2015	93.97	72.80	1.0719
10/21/2015	93.91	71.80	1.1195
1/24/2016	97.24	93.00	0.2147
4/25/2016	94.52	75.76	0.9499
7/25/2016	95.28	74.99	1.0273
10/17/2016	95.18	73.39	1.1033
1/20/2017	94.32	68.99	1.2825
4/14/2017	94.39	73.31	1.0673
7/14/2017	95.02	74.99	1.0142
		Average:	**1.1803**

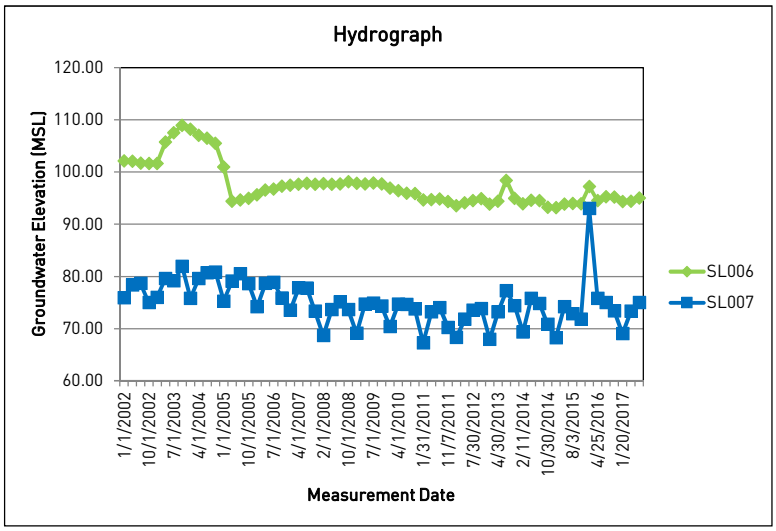
Well ID	Aquifer	TOC Elevation	Ground Elevation	Top of Screen	Bottom of Screen	Midpoint of Screen
SL006	TLS	122.82	119.55	73.55	68.55	71.05
SL007	SSDL	123.66	119.80	53.80	48.80	51.30

TOC = Top of Well Casing

Vertical Gradient calculated using the following equation:

$$\frac{\text{(GWE Shallow Well - GWE Deep Well)}}{\text{(Shallow Screen midpoint - Deep Screen midpoint)}}$$

Where:
GWE= Groundwater Elevation



SMITH+GARDNER

Vertical Gradient Calculations
SL007 and UBC004

By: BJW
Date: 10/20/2017

Date	Well ID		Vertical Gradient
	SL007	UBC004	
1/1/2002	75.91	75.08	0.0282
4/1/2002	78.31	81.09	-0.0944
7/1/2002	78.64	79.99	-0.0458
10/1/2002	74.97	75.67	-0.0238
1/1/2003	75.96	77.98	-0.0686
4/1/2003	79.59	82.32	-0.0927
7/1/2003	79.11	84.34	-0.1775
10/1/2003	81.89	83.31	-0.0482
1/1/2004	75.76	75.92	-0.0054
4/1/2004	79.55	82.12	-0.0872
7/1/2004	80.68	82.84	-0.0733
10/1/2004	80.81	83.56	-0.0933
1/1/2005	75.22	76.05	-0.0282
4/1/2005	79.06	83.17	-0.1395
7/1/2005	80.50	83.50	-0.1018
10/1/2005	78.55	80.33	-0.0604
1/1/2006	74.16	74.88	-0.0244
5/1/2006	78.65	81.45	-0.0950
7/1/2006	78.80	80.73	-0.0655
11/1/2006	75.85	76.18	-0.0112
1/1/2007	73.51	74.87	-0.0462
4/1/2007	77.78	80.46	-0.0910
7/7/2007	77.72	79.39	-0.0567
11/1/2007	73.28	72.21	0.0363
2/1/2008	68.63	69.56	-0.0316
4/4/2008	73.62	76.35	-0.0927
7/1/2008	75.08	76.77	-0.0574
10/1/2008	73.59	73.32	0.0092
1/1/2009	69.06	69.51	-0.0153
4/1/2009	74.63	77.41	-0.0944
7/1/2009	74.86	76.71	-0.0628
10/1/2009	74.31	75.40	-0.0370
1/1/2010	70.35	71.21	-0.0292
4/1/2010	74.65	75.87	-0.0414
7/27/2010	74.58	76.04	-0.0496
11/2/2010	73.74	73.58	0.0054
1/31/2011	67.26	67.56	-0.0102
5/3/2011	73.16	75.74	-0.0876
7/26/2011	73.98	75.24	-0.0428
11/7/2011	70.16	68.99	0.0397
2/29/2012	68.27	69.91	-0.0557
5/1/2012	71.76	73.06	-0.0441
7/30/2012	73.49	74.55	-0.0360
10/30/2012	73.78	73.86	-0.0027
2/5/2013	67.94	68.63	-0.0234
4/30/2013	73.16	75.68	-0.0855
7/29/2013	77.20	79.75	-0.0866
11/13/2013	74.37	73.35	0.0346
2/11/2014	69.32	69.89	-0.0193
4/22/2014	75.78	77.71	-0.0655
7/21/2014	74.75	75.39	-0.0217
10/30/2014	70.77	69.65	0.0380
1/26/2015	68.23	69.21	-0.0333
5/1/2015	74.14	76.99	-0.0967
8/3/2015	72.80	73.09	-0.0098
10/21/2015	71.80	73.88	-0.0706
1/24/2016	93.00	74.51	0.6276
4/25/2016	75.76	77.87	-0.0716
7/25/2016	74.99	74.89	0.0034
10/17/2016	73.39	74.53	-0.0387
1/20/2017	68.99	70.49	-0.0509
4/14/2017	73.31	75.76	-0.0832
7/14/2017	74.99	76.68	-0.0574
		Average:	**-0.0492**

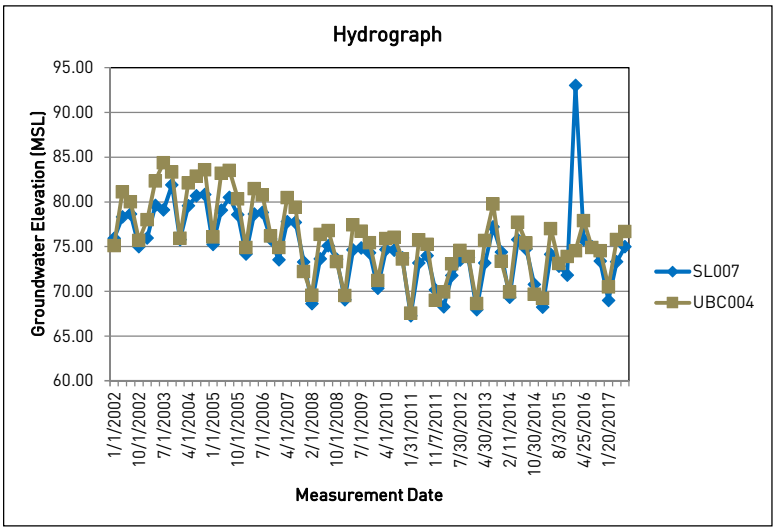
Well ID	Aquifer	TOC Elevation	Ground Elevation	Top of Screen	Bottom of Screen	Midpoint of Screen
SL007	SSDL	123.66	119.80	53.80	48.80	51.30
UBC004	UBC	123.11	119.84	26.84	16.84	21.84

TOC = Top of Well Casing

Vertical Gradient calculated using the following equation:

$$\frac{\text{(GWE Shallow Well - GWE Deep Well)}}{\text{(Shallow Screen midpoint - Deep Screen midpoint)}}$$

Where:
GWE= Groundwater Elevation



SMITH+GARDNER

Vertical Gradient Calculations
MW089T and MW090SR

By: BJW
Date: 10/20/2017

Date	Well ID		Vertical Gradient
	MW089T	MW090SR	
1/1/2002	80.30	77.67	0.3817
4/1/2002	83.01	81.46	0.2250
7/1/2002	82.76	80.15	0.3788
10/1/2002	79.02	75.90	0.4528
1/1/2003	80.26	78.28	0.2874
4/1/2003	83.61	82.47	0.1655
7/1/2003	86.44	84.85	0.2308
10/1/2003	86.01	83.83	0.3164
1/1/2004	79.40	76.41	0.4340
4/1/2004	83.90	82.40	0.2177
7/1/2004	85.17	83.34	0.2656
10/1/2004	85.64	83.96	0.2438
1/1/2005	79.99	76.79	0.4644
4/1/2005	84.88	83.60	0.1858
7/1/2005	85.82	84.01	0.2627
10/1/2005	83.66	81.18	0.3599
1/1/2006	78.45	75.49	0.4296
5/1/2006	83.66	81.85	0.2627
7/1/2006	83.77	81.31	0.3570
11/1/2006	80.60	76.99	0.5239
1/1/2007	77.86	75.30	0.3716
4/1/2007	82.60	80.93	0.2424
7/7/2007	82.63	80.08	0.3701
2/1/2008	72.95	70.10	0.4136
4/4/2008	78.41	76.68	0.2511
7/1/2008	79.95	77.39	0.3716
10/1/2008	78.50	74.33	0.6052
1/1/2009	73.33	70.11	0.4673
4/1/2009	79.51	77.73	0.2583
7/1/2009	79.68	77.24	0.3541
10/1/2009	78.99	76.04	0.4282
1/1/2010	74.38	71.67	0.3933
4/1/2010	79.26	76.45	0.4078
7/27/2010	79.29	76.65	0.3832
11/2/2010	78.38	74.38	0.5806
1/31/2011	71.30	68.13	0.4601
5/3/2011	77.88	76.03	0.2685
7/26/2011	78.74	75.83	0.4224
11/7/2011	76.99	76.11	0.1277
2/29/2012	73.03	74.03	-0.1451
5/1/2012	77.11	77.71	-0.0871
7/30/2012	78.90	75.97	0.4253
10/30/2012	78.40	74.53	0.5617
2/5/2013	72.02	68.42	0.5225
4/30/2013	77.68	75.91	0.2569
7/29/2013	81.70	79.67	0.2946
11/13/2013	79.02	74.42	0.6676
2/11/2014	73.38	70.27	0.4514
4/22/2014	78.78	77.13	0.2395
7/21/2014	69.55	76.10	-0.9507
10/30/2014	75.34	70.74	0.6676
1/26/2015	72.31	69.59	0.3948
5/1/2015	77.12	77.12	0.0000
8/3/2015	77.39	73.84	0.5152
10/21/2015	78.50	74.08	0.6415
1/24/2016	77.62	75.04	0.3745
4/25/2016	80.61	77.80	0.4078
7/25/2016	80.33	76.40	0.5704
10/17/2016	78.04	75.05	0.4340
1/20/2017	73.15	70.67	0.3599
4/14/2017	78.01	76.05	0.2845
7/14/2017	79.92	77.15	0.4020
		Average:	**0.3373**

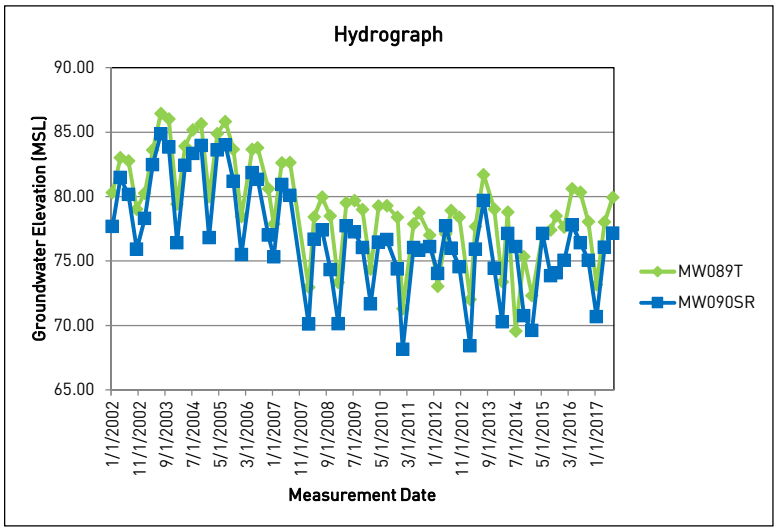
Well ID	Aquifer	TOC Elevation	Ground Elevation	Top of Screen	Bottom of Screen	Midpoint of Screen
MW089T	TLS	160.20	156.70	55.99	50.99	53.49
MW090SR	SSDL	160.10	156.26	49.10	44.10	46.60

TOC = Top of Well Casing

Vertical Gradient calculated using the following equation:

$$\frac{\text{(GWE Shallow Well - GWE Deep Well)}}{\text{(Shallow Screen midpoint - Deep Screen midpoint)}}$$

Where:
GWE= Groundwater Elevation



SMITH+GARDNER

Vertical Gradient Calculations
MW090SR and MW91PR

By: BJW
Date: 10/20/2017

Date	Well ID		Vertical Gradient
	MW090SR	MW91PR	
1/1/2002	77.67	77.48	0.0129
4/1/2002	81.46	81.40	0.0041
7/1/2002	80.15	79.99	0.0109
10/1/2002	75.90	75.66	0.0163
1/1/2003	78.28	73.17	0.3479
4/1/2003	82.47	82.42	0.0034
7/1/2003	84.85	84.74	0.0075
10/1/2003	83.83	83.69	0.0095
1/1/2004	76.41	75.76	0.0442
4/1/2004	82.40	82.32	0.0054
7/1/2004	83.34	83.22	0.0082
10/1/2004	83.96	83.87	0.0061
1/1/2005	76.79	76.58	0.0143
4/1/2005	83.60	83.42	0.0123
7/1/2005	84.01	83.89	0.0082
10/1/2005	81.18	80.84	0.0231
1/1/2006	75.49	75.33	0.0109
5/1/2006	81.85	81.74	0.0075
7/1/2006	81.31	81.15	0.0109
11/1/2006	76.99	76.77	0.0150
1/1/2007	75.30	75.16	0.0095
4/1/2007	80.93	80.79	0.0095
7/7/2007	80.08	79.86	0.0150
2/1/2008	70.10	69.98	0.0082
4/4/2008	76.68	76.59	0.0061
7/1/2008	77.39	77.22	0.0116
10/1/2008	74.33	74.03	0.0204
1/1/2009	70.11	69.93	0.0123
4/1/2009	77.73	77.64	0.0061
7/1/2009	77.24	77.12	0.0082
10/1/2009	76.04	75.87	0.0116
1/1/2010	71.67	71.51	0.0109
4/1/2010	76.45	76.28	0.0116
7/27/2010	76.65	76.44	0.0143
11/2/2010	74.38	74.03	0.0238
1/31/2011	68.13	68.04	0.0061
5/3/2011	76.03	75.94	0.0061
7/26/2011	75.83	75.63	0.0136
11/7/2011	76.11	72.77	0.2274
2/29/2012	74.03	71.00	0.2063
5/1/2012	77.71	74.71	0.2042
7/30/2012	75.97	76.06	-0.0061
10/30/2012	74.53	74.30	0.0157
2/5/2013	68.42	68.97	-0.0374
4/30/2013	75.91	75.89	0.0014
7/29/2013	79.67	79.67	0.0000
11/13/2013	74.42	74.14	0.0191
2/11/2014	70.27	70.21	0.0041
4/22/2014	77.13	77.07	0.0041
7/21/2014	76.10	75.92	0.0123
10/30/2014	70.74	70.41	0.0225
1/26/2015	69.59	69.49	0.0068
5/1/2015	77.12	77.08	0.0027
8/3/2015	73.84	78.59	-0.3233
10/21/2015	74.08	74.01	0.0048
1/24/2016	75.04	74.92	0.0082
4/25/2016	77.80	77.69	0.0075
7/25/2016	76.40	76.11	0.0197
10/17/2016	75.05	74.87	0.0123
1/20/2017	70.67	70.62	0.0034
4/14/2017	76.05	75.97	0.0054
7/14/2017	77.15	77.02	0.0088
		Average:	**0.0196**

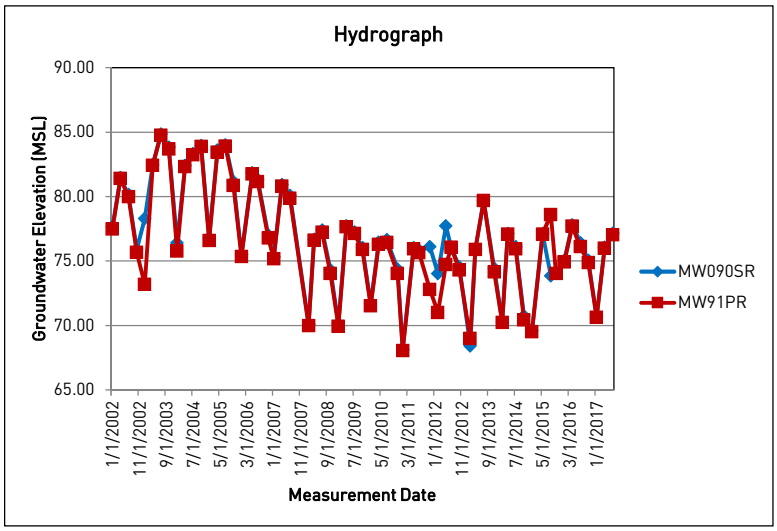
Well ID	Aquifer	TOC Elevation	Ground Elevation	Top of Screen	Bottom of Screen	Midpoint of Screen
MW090SR	SSDL	160.10	156.26	49.10	44.10	46.60
MW91PR	PSDL	160.19	156.41	34.41	29.41	31.91

TOC = Top of Well Casing

Vertical Gradient calculated using the following equation:

$$\frac{\text{(GWE Shallow Well - GWE Deep Well)}}{\text{(Shallow Screen midpoint - Deep Screen midpoint)}}$$

Where:
GWE= Groundwater Elevation



SMITH+GARDNER

Vertical Gradient Calculations
MW91PR and UBC026

By: BJW
Date: 10/20/2017

Date	Well ID		Vertical Gradient
	MW91PR	UBC026	
1/1/2002	77.48	76.19	0.3042
4/1/2002	81.40	83.17	-0.4175
7/1/2002	79.99	78.78	0.2854
10/1/2002	75.66	72.99	0.6297
1/1/2003	73.17	77.52	-1.0259
4/1/2003	82.42	84.04	-0.3821
7/1/2003	84.74	85.64	-0.2123
10/1/2003	83.69	83.04	0.1533
1/1/2004	75.76	71.25	1.0637
4/1/2004	82.32	83.36	-0.2453
7/1/2004	83.22	83.38	-0.0377
10/1/2004	83.87	84.01	-0.0330
1/1/2005	76.58	71.08	1.2972
4/1/2005	83.42	84.20	-0.1840
7/1/2005	83.89	84.32	-0.1014
10/1/2005	80.84	77.53	0.7807
1/1/2006	75.33	72.68	0.6250
5/1/2006	81.74	82.46	-0.1698
7/1/2006	81.15	80.13	0.2406
11/1/2006	76.77	71.18	1.3184
1/1/2007	75.16	72.78	0.5613
4/1/2007	80.79	81.59	-0.1887
7/7/2007	79.86	78.05	0.4269
2/1/2008	69.98	67.21	0.6533
4/4/2008	76.59	76.95	-0.0849
7/1/2008	77.22	75.83	0.3278
10/1/2008	74.03	67.47	1.5472
1/1/2009	69.93	65.57	1.0283
4/1/2009	77.64	76.86	0.1840
7/1/2009	77.12	76.56	0.1321
10/1/2009	75.87	72.87	0.7075
1/1/2010	71.51	68.10	0.8042
4/1/2010	76.28	72.47	0.8986
7/27/2010	76.44	73.26	0.7500
11/2/2010	74.03	66.58	1.7571
1/31/2011	68.04	63.73	1.0165
5/3/2011	75.94	75.94	0.0000
7/26/2011	75.63	72.70	0.6910
11/7/2011	72.77	64.43	1.9670
2/29/2012	71.00	67.42	0.8443
5/1/2012	74.71	70.84	0.9127
7/30/2012	76.06	73.15	0.6863
10/30/2012	74.30	66.75	1.7807
2/5/2013	68.97	65.45	0.8302
4/30/2013	75.89	75.36	0.1250
7/29/2013	79.67	79.42	0.0590
11/13/2013	74.14	64.95	2.1675
2/11/2014	70.21	66.24	0.9363
4/22/2014	77.07	76.07	0.2358
7/21/2014	75.92	70.92	1.1792
10/30/2014	70.41	61.51	2.0991
1/26/2015	69.49	66.25	0.7642
5/1/2015	77.08	77.99	-0.2146
8/3/2015	78.59	68.34	2.4175
10/21/2015	74.01	71.93	0.4906
1/24/2016	74.92	72.33	0.6108
4/25/2016	77.69	75.41	0.5377
7/25/2016	76.11	69.65	1.5236
10/17/2016	74.87	70.78	0.9646
1/20/2017	70.62	68.76	0.4387
4/14/2017	75.97	75.27	0.1651
7/14/2017	77.02	75.34	0.3962
		Average:	**0.5971**

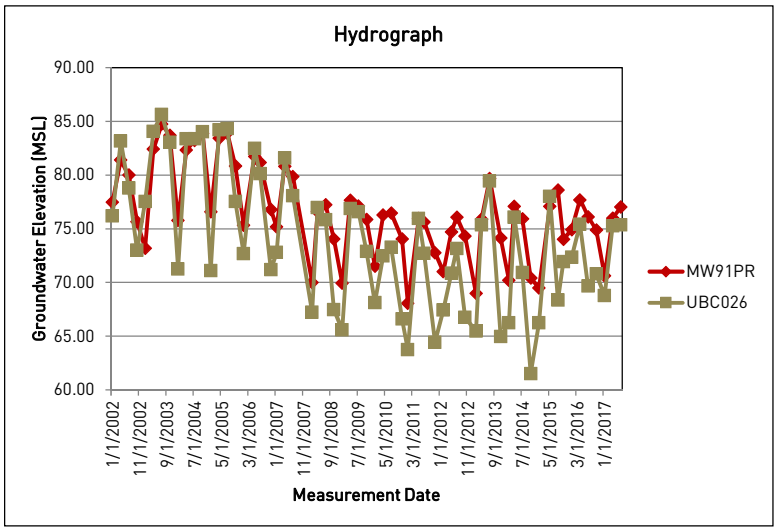
Well ID	Aquifer	TOC Elevation	Ground Elevation	Top of Screen	Bottom of Screen	Midpoint of Screen
MW91PR	PSDL	160.19	156.41	34.41	29.41	31.91
UBC026	UBC	160.67	157.17	30.17	25.17	27.67

TOC = Top of Well Casing

Vertical Gradient calculated using the following equation:

$$\frac{\text{(GWE Shallow Well - GWE Deep Well)}}{\text{(Shallow Screen midpoint - Deep Screen midpoint)}}$$

Where:
GWE= Groundwater Elevation



SMITH+GARDNER

Vertical Gradient Calculations
OC015 and MW033

By: BJW
Date: 10/20/2017

Date	Well ID		Vertical Gradient
	OC015	MW033	
2/1/2003	108.38	100.66	0.4128
4/1/2003	108.76	101.36	0.3957
7/1/2003	108.30	101.75	0.3503
10/1/2003	108.19	101.73	0.3455
1/1/2004	109.28	101.71	0.4048
4/1/2004	109.26	101.64	0.4075
7/1/2004	107.93	101.64	0.3364
10/1/2004	108.15	101.71	0.3444
1/1/2005	108.92	101.28	0.4086
4/1/2005	109.13	100.98	0.4358
7/1/2005	108.26	100.82	0.3979
10/1/2005	107.99	100.50	0.4005
1/1/2006	108.54	100.21	0.4455
5/1/2006	108.62	100.10	0.4556
7/1/2006	107.69	100.00	0.4112
11/1/2006	107.92	99.77	0.4358
1/1/2007	108.69	99.56	0.4882
4/1/2007	108.58	101.03	0.4037
7/7/2007	107.62	99.69	0.4241
2/1/2008	108.48	98.62	0.5273
4/4/2008	108.36	98.51	0.5267
7/1/2008	107.36	98.62	0.4674
10/1/2008	107.63	98.62	0.4818
1/1/2009	108.16	98.22	0.5316
4/1/2009	108.33	98.35	0.5337
7/1/2009	107.26	98.65	0.4604
10/1/2009	106.86	98.58	0.4428
1/1/2010	108.26	98.54	0.5198
4/1/2010	107.96	98.56	0.5027
7/27/2010	106.82	98.54	0.4428
11/2/2010	106.52	98.01	0.4551
1/31/2011	107.57	97.58	0.5342
5/3/2011	107.26	97.62	0.5155
7/26/2011	106.02	97.45	0.4583
11/7/2011	106.47	97.39	0.4856
2/29/2012	107.74	97.45	0.5503
5/1/2012	107.39	97.47	0.5305
7/30/2012	106.74	97.68	0.4845
10/30/2012	107.11	97.97	0.4888
2/5/2013	107.85	97.82	0.5364
4/30/2013	107.93	102.42	0.2947
7/29/2013	107.41	98.62	0.4701
11/13/2013	107.11	98.74	0.4476
2/11/2014	108.00	98.55	0.5053
4/22/2014	108.20	98.76	0.5048
7/21/2014	106.98	98.82	0.4364
10/30/2014	106.99	98.70	0.4433
1/26/2015	108.67	98.06	0.5674
5/1/2015	108.29	97.88	0.5567
8/3/2015	106.64	97.71	0.4775
10/21/2015	107.36	97.86	0.5080
1/24/2016	108.17	98.18	0.5342
4/25/2016	108.24	98.73	0.5086
7/25/2016	107.49	98.82	0.4636
10/17/2016	108.05	98.79	0.4952
1/20/2017	108.93	98.23	0.5722
4/14/2017	108.58	98.35	0.5471
7/14/2017	107.67	98.51	0.4898
		Average:	**0.4656**

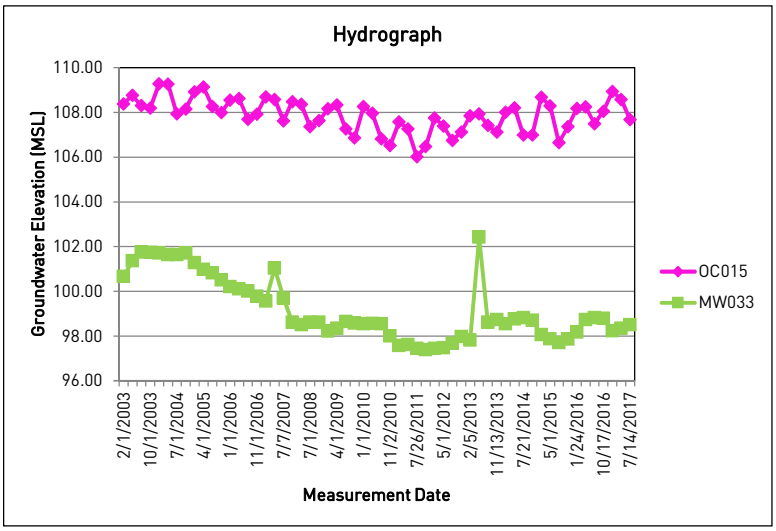
Well ID	Aquifer	TOC Elevation	Ground Elevation	Top of Screen	Bottom of Screen	Midpoint of Screen
OC015	OC	128.77	125.95	88.45	78.45	83.45
MW033	TLS	129.06	125.75	67.25	62.25	64.75

TOC = Top of Well Casing

Vertical Gradient calculated using the following equation:

$$\frac{\text{(GWE Shallow Well - GWE Deep Well)}}{\text{(Shallow Screen midpoint - Deep Screen midpoint)}}$$

Where:
GWE= Groundwater Elevation



SMITH+GARDNER

Vertical Gradient Calculations
MW033 and MW036SR

By: BJW
Date: 10/20/2017

Date	Well ID		Vertical Gradient
	MW033	MW036SR	
1/1/2002	101.32	78.08	1.3123
4/1/2002	99.44	81.09	1.0361
7/1/2002	100.84	81.21	1.1084
10/1/2002	100.56	77.06	1.3269
1/1/2003	100.66	78.46	1.2535
4/1/2003	101.36	82.11	1.0870
7/1/2003	101.75	84.79	0.9577
10/1/2003	101.73	84.24	0.9876
1/1/2004	101.71	77.21	1.3834
4/1/2004	101.64	82.43	1.0847
7/1/2004	101.64	83.54	1.0220
10/1/2004	101.71	84.03	0.9983
1/1/2005	101.28	77.60	1.3371
4/1/2005	100.98	82.80	1.0265
7/1/2005	100.82	83.75	0.9639
10/1/2005	100.50	81.33	1.0824
1/1/2006	100.21	75.65	1.3868
5/1/2006	100.10	81.65	1.0418
7/1/2006	100.00	81.54	1.0423
11/1/2006	99.77	77.63	1.2501
1/1/2007	99.56	75.14	1.3789
4/1/2007	101.03	80.59	1.1542
7/7/2007	99.69	80.28	1.0960
2/1/2008	98.62	69.91	1.6211
4/4/2008	98.51	76.17	1.2614
7/1/2008	98.62	77.45	1.1954
10/1/2008	98.62	75.16	1.3247
1/1/2009	98.22	70.07	1.5895
4/1/2009	98.35	77.21	1.1937
7/1/2009	98.65	76.99	1.2230
10/1/2009	98.58	76.15	1.2665
1/1/2010	98.54	71.30	1.5381
4/1/2010	98.56	76.47	1.2473
7/27/2010	98.54	77.29	1.1999
11/2/2010	98.01	75.35	1.2795
1/31/2011	97.58	68.08	1.6657
5/3/2011	97.62	75.52	1.2479
7/26/2011	97.45	76.02	1.2101
11/7/2011	97.39	71.07	1.4862
2/29/2012	97.45	69.71	1.5663
5/1/2012	97.47	73.50	1.3535
7/30/2012	97.68	75.35	1.2609
10/30/2012	97.97	75.38	1.2756
2/5/2013	97.82	68.86	1.6352
4/30/2013	102.42	75.26	1.5336
7/29/2013	98.62	79.41	1.0847
11/13/2013	98.74	75.46	1.3145
2/11/2014	98.55	70.18	1.6019
4/22/2014	98.76	76.52	1.2558
7/21/2014	98.82	76.66	1.2513
10/30/2014	98.70	72.13	1.5003
1/26/2015	98.06	70.22	1.5720
5/1/2015	97.88	76.96	1.1813
8/3/2015	97.71	74.61	1.3043
10/21/2015	97.86	74.18	1.3371
1/24/2016	98.18	75.04	1.3066
4/25/2016	98.73	78.51	1.1417
7/25/2016	98.82	78.12	1.1688
10/17/2016	98.79	75.49	1.3156
1/20/2017	98.23	70.61	1.5596
4/14/2017	98.35	75.86	1.2699
7/14/2017	98.51	77.59	1.1813
		Average:	**1.2716**

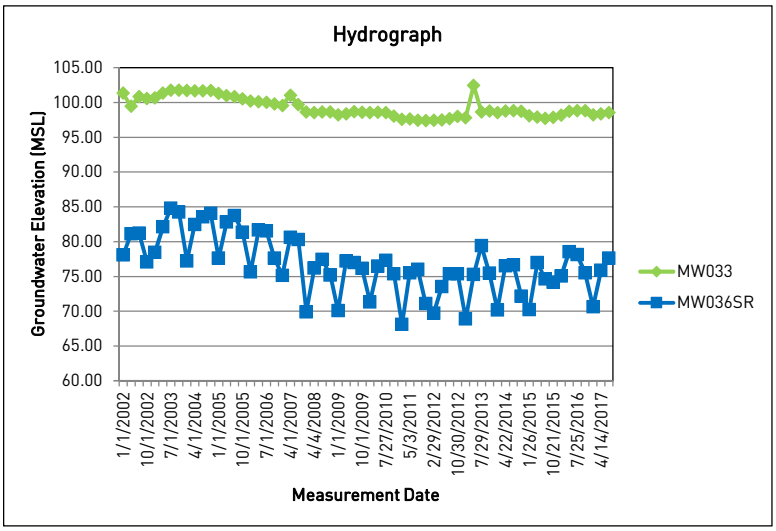
Well ID	Aquifer	TOC Elevation	Ground Elevation	Top of Screen	Bottom of Screen	Midpoint of Screen
MW033	TLS	129.06	125.75	67.25	62.25	64.75
MW036SR	SSDL	129.96	126.54	49.54	44.54	47.04

TOC = Top of Well Casing

Vertical Gradient calculated using the following equation:

$$\frac{\text{(GWE Shallow Well - GWE Deep Well)}}{\text{(Shallow Screen midpoint - Deep Screen midpoint)}}$$

Where:
GWE= Groundwater Elevation



SMITH+GARDNER

Vertical Gradient Calculations
MW036SR and SL016

By: BJW
Date: 10/20/2017

Date	Well ID		Vertical Gradient
	MW036SR	SL016	
1/1/2002	78.08	80.60	-0.1830
4/1/2002	81.09	80.78	0.0225
7/1/2002	81.21	81.80	-0.0428
10/1/2002	77.06	75.36	0.1235
1/1/2003	78.46	77.81	0.0472
4/1/2003	82.11	82.22	-0.0080
7/1/2003	84.79	84.31	0.0349
10/1/2003	84.24	83.09	0.0835
1/1/2004	77.21	75.49	0.1249
4/1/2004	82.43	82.01	0.0305
7/1/2004	83.54	82.70	0.0610
10/1/2004	84.03	83.45	0.0421
1/1/2005	77.60	75.80	0.1307
4/1/2005	82.80	82.98	-0.0131
7/1/2005	83.75	83.35	0.0290
10/1/2005	81.33	80.13	0.0871
1/1/2006	75.65	74.43	0.0886
5/1/2006	81.65	81.29	0.0261
7/1/2006	81.54	80.50	0.0755
11/1/2006	77.63	75.68	0.1416
1/1/2007	75.14	74.35	0.0574
4/1/2007	80.59	80.25	0.0247
7/7/2007	80.28	79.05	0.0893
2/1/2008	69.91	69.01	0.0654
4/4/2008	76.17	76.15	0.0015
7/1/2008	77.45	76.51	0.0683
10/1/2008	75.16	72.76	0.1743
1/1/2009	70.07	68.88	0.0864
4/1/2009	77.21	77.14	0.0051
7/1/2009	76.99	76.47	0.0378
10/1/2009	76.15	74.38	0.1285
1/1/2010	71.30	70.64	0.0479
4/1/2010	76.47	75.37	0.0799
7/27/2010	77.29	76.32	0.0704
11/2/2010	75.35	72.96	0.1736
1/31/2011	68.08	66.89	0.0864
5/3/2011	75.52	75.42	0.0073
7/26/2011	76.02	74.80	0.0886
11/7/2011	71.07	68.18	0.2099
2/29/2012	69.71	69.46	0.0182
5/1/2012	73.50	72.61	0.0646
7/30/2012	75.35	74.11	0.0901
10/30/2012	75.38	73.21	0.1576
2/5/2013	68.86	68.04	0.0595
4/30/2013	75.26	75.31	-0.0036
7/29/2013	79.41	79.26	0.0109
11/13/2013	75.46	72.62	0.2062
2/11/2014	70.18	69.23	0.0690
4/22/2014	76.52	76.45	0.0051
7/21/2014	76.66	75.08	0.1147
10/30/2014	72.13	69.62	0.1823
1/26/2015	70.22	69.62	0.0436
5/1/2015	76.96	76.71	0.0182
8/3/2015	74.61	74.33	0.0203
10/21/2015	74.18	73.53	0.0472
1/24/2016	75.04	73.95	0.0792
4/25/2016	78.51	77.11	0.1017
7/25/2016	78.12	75.67	0.1779
10/17/2016	75.49	73.94	0.1126
1/20/2017	70.61	69.97	0.0465
4/14/2017	75.86	75.41	0.0327
7/14/2017	77.59	76.27	0.0959
		Average:	**0.0670**

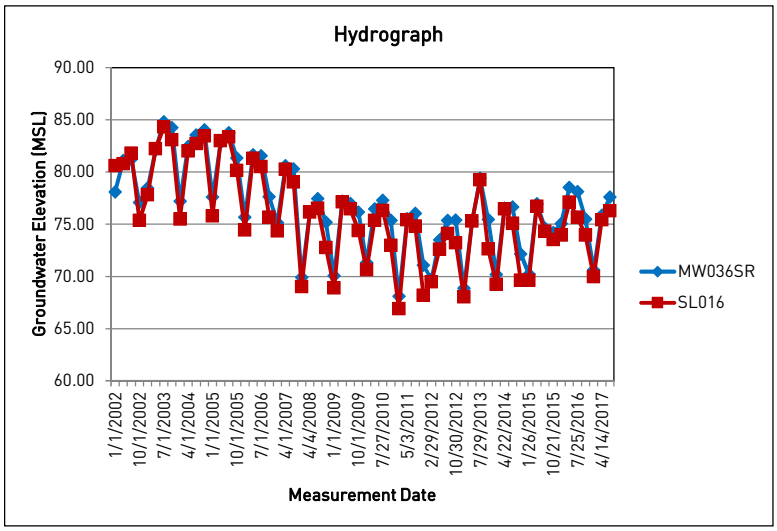
Well ID	Aquifer	TOC Elevation	Ground Elevation	Top of Screen	Bottom of Screen	Midpoint of Screen
MW036SR	SSDL	129.96	126.54	49.54	44.54	47.04
SL016	PSDL	129.61	125.77	35.77	30.77	33.27

TOC = Top of Well Casing

Vertical Gradient calculated using the following equation:

$$\frac{\text{(GWE Shallow Well - GWE Deep Well)}}{\text{(Shallow Screen midpoint - Deep Screen midpoint)}}$$

Where:
GWE= Groundwater Elevation



SMITH+GARDNER

Vertical Gradient Calculations
OC004 and PSDL021

By: BJW
Date: 10/20/2017

Date	Well ID		Vertical Gradient
	OC004	PSDL021	
1/1/2002	100.41	89.04	0.7036
4/1/2002	100.20	89.68	0.6510
7/1/2002	98.47	89.14	0.5774
10/1/2002	97.20	88.79	0.5204
1/1/2003	101.22	88.97	0.7580
4/1/2003	100.16	89.80	0.6411
7/1/2003	98.93	90.46	0.5241
10/1/2003	100.31	90.64	0.5984
1/1/2004	101.53	89.78	0.7271
4/1/2004	100.24	89.62	0.6572
7/1/2004	98.07	90.20	0.4870
10/1/2004	99.38	90.30	0.5619
1/1/2005	100.66	89.61	0.6838
4/1/2005	100.19	89.01	0.6918
7/1/2005	98.77	88.87	0.6126
10/1/2005	99.80	88.61	0.6925
1/1/2006	100.51	88.42	0.7481
5/1/2006	99.09	88.28	0.6689
7/1/2006	97.73	88.61	0.5644
11/1/2006	98.78	88.28	0.6498
1/1/2007	99.76	88.23	0.7135
4/1/2007	99.79	88.52	0.6974
7/7/2007	97.84	88.78	0.5606
2/1/2008	99.05	86.49	0.7772
4/4/2008	98.73	86.61	0.7500
7/1/2008	97.33	87.07	0.6349
10/1/2008	98.59	87.19	0.7054
1/1/2009	99.46	86.59	0.7964
4/1/2009	98.37	86.81	0.7153
7/1/2009	97.69	87.61	0.6238
10/1/2009	98.20	87.34	0.6720
1/1/2010	99.85	87.01	0.7946
4/1/2010	98.45	87.24	0.6937
7/27/2010	96.81	87.37	0.5842
11/2/2010	97.98	86.69	0.6986
1/31/2011	98.58	85.50	0.8094
5/3/2011	97.28	85.99	0.6986
7/26/2011	96.17	86.42	0.6033
11/7/2011	97.80	85.93	0.7345
2/29/2012	98.73	85.40	0.8249
5/1/2012	97.80	85.73	0.7469
7/30/2012	97.03	86.12	0.6751
10/30/2012	99.00	86.54	0.7710
2/5/2013	99.11	85.71	0.8292
4/30/2013	98.49	86.55	0.7389
7/29/2013	97.80	87.58	0.6324
11/13/2013	99.12	87.53	0.7172
2/11/2014	100.02	86.91	0.8113
4/22/2014	98.89	87.43	0.7092
7/21/2014	96.93	87.27	0.5978
10/30/2014	97.56	86.59	0.6788
1/26/2015	98.85	86.19	0.7834
5/1/2015	98.02	86.84	0.6918
8/3/2015	96.45	86.59	0.6101
10/21/2015	98.07	86.74	0.7011
1/24/2016	99.69	87.37	0.7624
4/25/2016	99.21	87.76	0.7085
7/25/2016	98.03	87.66	0.6417
10/17/2016	99.59	87.59	0.7426
1/20/2017	100.73	86.81	0.8614
4/14/2017	99.59	87.03	0.7772
7/14/2017	98.22	87.69	0.6516
		Average:	**0.6879**

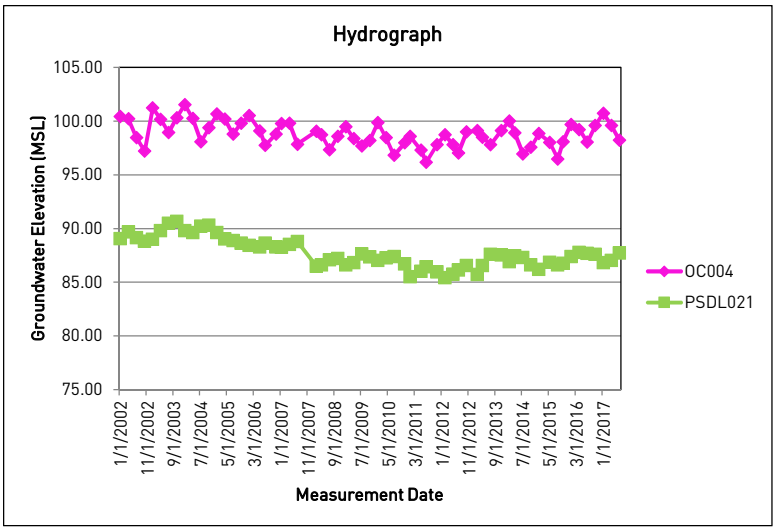
Well ID	Aquifer	TOC Elevation	Ground Elevation	Top of Screen	Bottom of Screen	Midpoint of Screen
OC004	OC	126.38	122.38	82.38	77.38	79.88
PSDL021	TLS	125.39	121.72	65.72	61.72	63.72

TOC = Top of Well Casing

Vertical Gradient calculated using the following equation:

$$\frac{\text{(GWE Shallow Well - GWE Deep Well)}}{\text{(Shallow Screen midpoint - Deep Screen midpoint)}}$$

Where:
GWE= Groundwater Elevation



SMITH+GARDNER

Vertical Gradient Calculations
PSDL021 and PSDL021A

By: BJW
Date: 10/20/2017

Date	Well ID		Vertical Gradient
	PSDL021	PSDL021A	
1/1/2002	89.04	83.99	0.2877
4/1/2002	89.68	84.74	0.2815
7/1/2002	89.14	84.77	0.2490
10/1/2002	88.79	83.29	0.3134
1/1/2003	88.97	83.83	0.2929
4/1/2003	89.80	85.53	0.2433
7/1/2003	90.46	86.80	0.2085
10/1/2003	90.64	87.03	0.2057
1/1/2004	89.78	84.65	0.2923
4/1/2004	89.62	85.30	0.2462
7/1/2004	90.20	86.01	0.2387
10/1/2004	90.30	86.22	0.2325
1/1/2005	89.61	84.32	0.3014
4/1/2005	89.01	84.55	0.2541
7/1/2005	88.87	85.15	0.2120
10/1/2005	88.61	84.48	0.2353
1/1/2006	88.42	83.33	0.2900
5/1/2006	88.28	84.31	0.2262
7/1/2006	88.61	84.68	0.2239
11/1/2006	88.28	83.74	0.2587
1/1/2007	88.23	82.90	0.3037
4/1/2007	88.52	84.07	0.2536
7/7/2007	88.78	84.32	0.2541
11/1/2007	87.55	82.30	0.2991
2/1/2008	86.49	80.08	0.3652
4/4/2008	86.61	81.50	0.2912
7/1/2008	87.07	82.40	0.2661
10/1/2008	87.19	82.00	0.2957
1/1/2009	86.59	80.39	0.3533
4/1/2009	86.81	82.04	0.2718
7/1/2009	87.61	82.82	0.2729
10/1/2009	87.34	82.35	0.2843
1/1/2010	87.01	81.17	0.3328
4/1/2010	87.24	82.45	0.2729
7/27/2010	87.37	82.73	0.2644
11/2/2010	86.69	81.90	0.2729
1/31/2011	85.50	79.19	0.3595
5/3/2011	85.99	74.99	0.6268
7/26/2011	86.42	81.65	0.2718
11/7/2011	85.93	80.22	0.3254
2/29/2012	85.40	79.19	0.3538
5/1/2012	85.73	80.52	0.2969
7/30/2012	86.12	81.33	0.2729
10/30/2012	86.54	81.85	0.2672
2/5/2013	85.71	79.48	0.3550
4/30/2013	86.55	81.30	0.2991
7/29/2013	87.58	83.32	0.2427
11/13/2013	87.53	82.87	0.2655
2/11/2014	86.91	80.06	0.3903
4/22/2014	87.43	82.23	0.2963
7/21/2014	87.27	82.70	0.2604
10/30/2014	86.59	81.38	0.2969
1/26/2015	86.19	79.75	0.3670
5/1/2015	86.84	81.76	0.2895
8/3/2015	86.59	81.75	0.2758
10/21/2015	86.74	81.45	0.3014
1/24/2016	87.37	82.13	0.2986
4/25/2016	87.76	83.17	0.2615
7/25/2016	87.66	83.27	0.2501
10/17/2016	87.59	82.43	0.2940
1/20/2017	86.81	80.48	0.3607
4/14/2017	87.03	81.70	0.3037
7/14/2017	87.69	82.68	0.2855
		Average:	**0.2891**

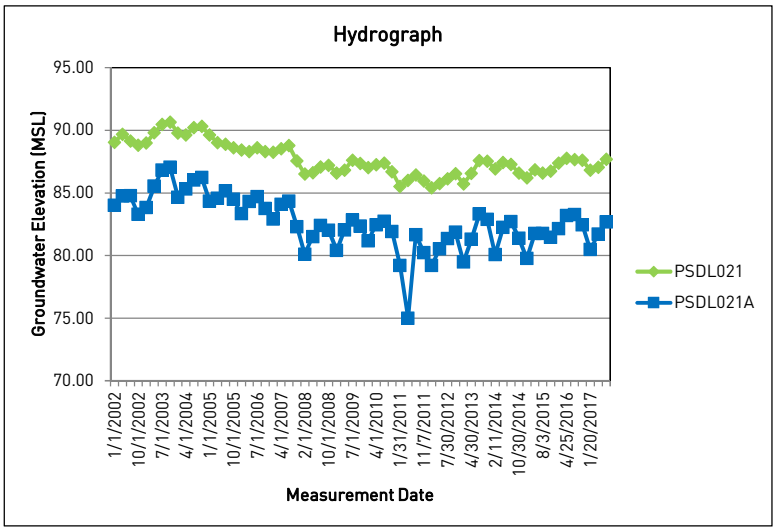
Well ID	Aquifer	TOC Elevation	Ground Elevation	Top of Screen	Bottom of Screen	Midpoint of Screen
PSDL021	TLS	125.39	121.72	65.72	61.72	63.72
PSDL021A	SSDL	124.50	121.67	48.67	43.67	46.17

TOC = Top of Well Casing

Vertical Gradient calculated using the following equation:

$$\frac{\text{(GWE Shallow Well - GWE Deep Well)}}{\text{(Shallow Screen midpoint - Deep Screen midpoint)}}$$

Where:
GWE= Groundwater Elevation



SMITH+GARDNER

Vertical Gradient Calculations
PSDL021A and SL013

By: BJW
Date: 10/20/2017

Date	Well ID		Vertical Gradient
	PSDL021A	SL013	
1/1/2002	83.99	76.44	0.6741
4/1/2002	84.74	79.33	0.4830
7/1/2002	84.77	78.69	0.5429
10/1/2002	83.29	75.41	0.7036
1/1/2003	83.83	78.01	0.5196
4/1/2003	85.53	81.46	0.3634
7/1/2003	86.80	82.51	0.3830
10/1/2003	87.03	81.37	0.5054
1/1/2004	84.65	76.62	0.7170
4/1/2004	85.30	80.27	0.4491
7/1/2004	86.01	80.96	0.4509
10/1/2004	86.22	81.62	0.4107
1/1/2005	84.32	76.90	0.6625
4/1/2005	84.55	80.79	0.3357
7/1/2005	85.15	81.54	0.3223
10/1/2005	84.48	79.30	0.4625
1/1/2006	83.33	75.96	0.6580
5/1/2006	84.31	79.83	0.4000
7/1/2006	84.68	79.39	0.4723
11/1/2006	83.74	76.85	0.6152
1/1/2007	82.90	75.85	0.6295
4/1/2007	84.07	79.29	0.4268
7/7/2007	84.32	81.30	0.2696
11/1/2007	82.30	73.59	0.7777
2/1/2008	80.08	71.15	0.7973
4/4/2008	81.50	76.17	0.4759
7/1/2008	82.40	76.21	0.5527
10/1/2008	82.00	74.35	0.6830
1/1/2009	80.39	71.85	0.7625
4/1/2009	82.04	77.53	0.4027
7/1/2009	82.82	76.73	0.5437
10/1/2009	82.35	75.28	0.6312
1/1/2010	81.17	73.53	0.6821
4/1/2010	82.45	76.48	0.5330
7/27/2010	82.73	76.59	0.5482
11/2/2010	81.90	74.58	0.6536
1/31/2011	79.19	69.92	0.8277
5/3/2011	74.99	75.72	-0.0652
7/26/2011	81.65	75.31	0.5661
11/7/2011	80.22	71.22	0.8036
2/29/2012	79.19	71.73	0.6661
5/1/2012	80.52	74.38	0.5482
7/30/2012	81.33	75.14	0.5527
10/30/2012	81.85	75.26	0.5884
2/5/2013	79.48	71.00	0.7571
4/30/2013	81.30	75.97	0.4759
7/29/2013	83.32	78.99	0.3866
11/13/2013	82.87	75.29	0.6768
2/11/2014	80.06	72.59	0.6670
4/22/2014	82.23	76.86	0.4795
7/21/2014	82.70	76.23	0.5777
10/30/2014	81.38	73.02	0.7464
1/26/2015	79.75	71.46	0.7402
5/1/2015	81.76	77.03	0.4223
8/3/2015	81.75	74.23	0.6714
10/21/2015	81.45	75.22	0.5563
1/24/2016	82.13	66.01	1.4393
4/25/2016	83.17	77.72	0.4866
7/25/2016	83.27	76.70	0.5866
10/17/2016	82.43	75.52	0.6170
1/20/2017	80.48	72.02	0.7554
4/14/2017	81.70	76.04	0.5054
7/14/2017	82.68	76.85	0.5205
		Average:	**0.5723**

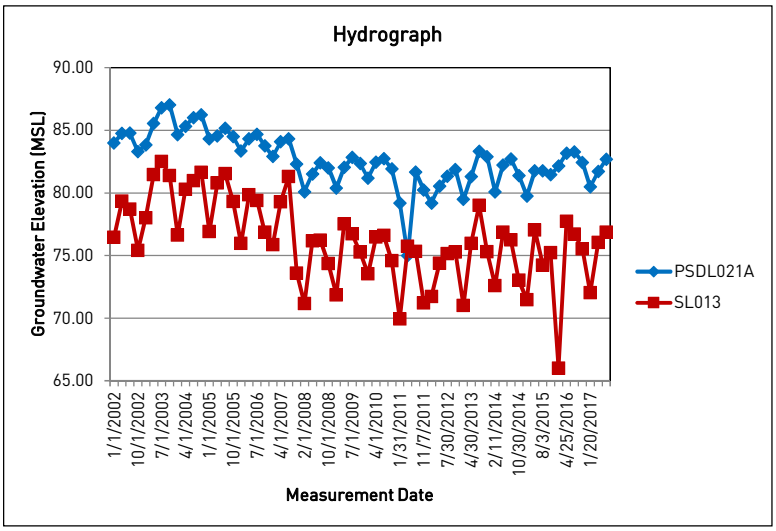
Well ID	Aquifer	TOC Elevation	Ground Elevation	Top of Screen	Bottom of Screen	Midpoint of Screen
PSDL021A	SSDL	124.50	121.67	48.67	43.67	46.17
SL013	PSDL	125.98	122.47	37.47	32.47	34.97

TOC = Top of Well Casing

Vertical Gradient calculated using the following equation:

$$\frac{\text{(GWE Shallow Well - GWE Deep Well)}}{\text{(Shallow Screen midpoint - Deep Screen midpoint)}}$$

Where:
GWE= Groundwater Elevation



SMITH+GARDNER

Vertical Gradient Calculations
MW101T and MW102S

By: BJW
Date: 10/20/2017

Date	Well ID		Vertical Gradient
	MW101T	MW102S	
1/1/2002	78.64	77.65	0.0721
4/1/2002	81.93	81.52	0.0298
7/1/2002	82.00	80.88	0.0815
10/1/2002	77.61	76.32	0.0939
1/1/2003	78.98	78.31	0.0488
4/1/2003	82.03	82.31	-0.0204
7/1/2003	85.57	85.12	0.0328
10/1/2003	85.11	84.14	0.0706
1/1/2004	77.58	76.17	0.1026
4/1/2004	83.21	82.72	0.0357
7/1/2004	84.45	83.73	0.0524
10/1/2004	84.97	84.67	0.0218
1/1/2005	78.31	76.67	0.1194
4/1/2005	90.09	87.39	0.1965
7/1/2005	89.04	86.01	0.2205
10/1/2005	85.38	82.28	0.2256
1/1/2006	79.02	76.00	0.2198
5/1/2006	84.94	82.87	0.1507
7/1/2006	84.57	82.20	0.1725
11/1/2006	80.25	77.32	0.2132
1/1/2007	77.52	75.40	0.1543
4/1/2007	83.10	81.54	0.1135
7/7/2007	82.66	80.54	0.1543
2/1/2008	71.72	69.76	0.1426
4/4/2008	78.06	76.95	0.0808
7/1/2008	79.38	77.67	0.1245
10/1/2008	77.01	74.22	0.2031
1/1/2009	71.51	69.54	0.1434
4/1/2009	78.85	77.91	0.0684
7/1/2009	78.46	77.27	0.0866
10/1/2009	77.78	76.10	0.1223
1/1/2010	72.40	71.02	0.1004
4/1/2010	77.89	76.16	0.1259
7/27/2010	78.06	76.64	0.1033
11/2/2010	76.56	74.12	0.1776
1/31/2011	69.08	67.41	0.1215
5/3/2011	76.84	76.06	0.0568
7/26/2011	77.25	75.76	0.1084
11/7/2011	75.18	72.99	0.1594
2/29/2012	71.54	70.86	0.0495
5/1/2012	75.70	74.85	0.0619
7/30/2012	77.09	70.97	0.4454
10/30/2012	76.44	74.39	0.1492
2/5/2013	69.70	68.30	0.1019
4/30/2013	76.45	75.80	0.0473
7/29/2013	80.55	79.82	0.0531
11/13/2013	76.45	73.86	0.1885
2/11/2014	70.82	69.43	0.1012
4/22/2014	77.52	77.00	0.0378
7/21/2014	77.51	75.88	0.1186
10/30/2014	72.25	69.75	0.1820
1/26/2015	69.85	68.77	0.0786
5/1/2015	77.48	77.04	0.0320
8/3/2015	75.04	73.32	0.1252
10/21/2015	74.50	73.74	0.0553
1/24/2016	75.47	74.52	0.0691
4/25/2016	78.73	77.75	0.0713
7/25/2016	77.63	75.53	0.1528
10/17/2016	75.84	74.61	0.0895
1/20/2017	70.71	69.94	0.0560
4/14/2017	76.28	75.81	0.0342
7/14/2017	78.07	77.03	0.0757
		Average:	**0.1107**

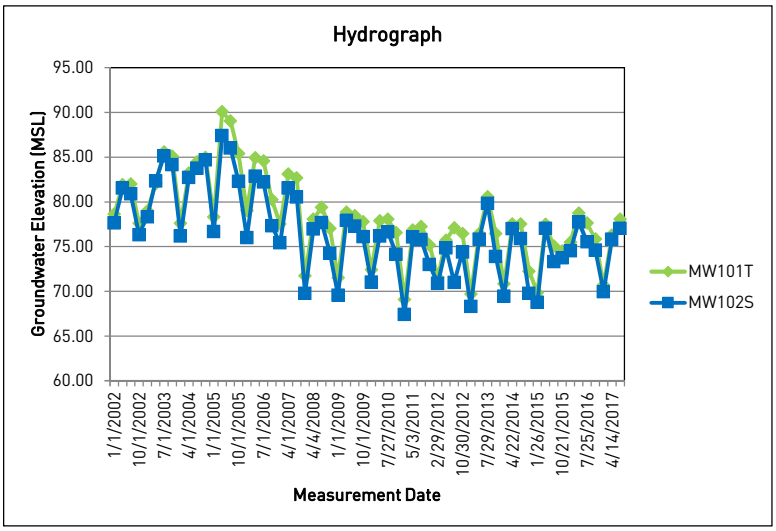
Well ID	Aquifer	TOC Elevation	Ground Elevation	Top of Screen	Bottom of Screen	Midpoint of Screen
MW101T	TLS	167.96	164.46	57.46	47.46	53.46
MW102S	SSDL	167.72	164.22	42.22	37.22	39.72

TOC = Top of Well Casing

Vertical Gradient calculated using the following equation:

$$\frac{\text{(GWE Shallow Well - GWE Deep Well)}}{\text{(Shallow Screen midpoint - Deep Screen midpoint)}}$$

Where:
GWE= Groundwater Elevation



SMITH+GARDNER

Vertical Gradient Calculations
MW102S and MW103P

By: BJW
Date: 10/20/2017

Date	Well ID		Vertical Gradient
	MW102S	MW103P	
1/1/2002	77.65	77.02	0.0612
4/1/2002	81.52	81.50	0.0019
7/1/2002	80.88	80.15	0.0709
10/1/2002	76.32	75.44	0.0854
1/1/2003	78.31	78.06	0.0243
4/1/2003	82.31	82.77	-0.0447
7/1/2003	85.12	84.95	0.0165
10/1/2003	84.14	83.55	0.0573
1/1/2004	76.17	75.25	0.0893
4/1/2004	82.72	82.67	0.0049
7/1/2004	83.73	83.33	0.0388
10/1/2004	84.67	84.16	0.0495
1/1/2005	76.67	75.60	0.1039
4/1/2005	87.39	84.16	0.3136
7/1/2005	86.01	84.10	0.1854
10/1/2005	82.28	80.42	0.1806
1/1/2006	76.00	74.39	0.1563
5/1/2006	82.87	81.92	0.0922
7/1/2006	82.20	81.08	0.1087
11/1/2006	77.32	75.48	0.1786
1/1/2007	75.40	74.42	0.0951
4/1/2007	81.54	80.95	0.0573
7/7/2007	80.54	79.44	0.1068
2/1/2008	69.76	68.98	0.0757
4/4/2008	76.95	76.61	0.0330
7/1/2008	77.67	76.86	0.0786
10/1/2008	74.22	72.46	0.1709
1/1/2009	69.54	68.60	0.0913
4/1/2009	77.91	77.54	0.0359
7/1/2009	77.27	76.22	0.1019
10/1/2009	76.10	75.15	0.0922
1/1/2010	71.02	70.45	0.0553
4/1/2010	76.16	75.33	0.0806
7/27/2010	76.64	75.76	0.0854
11/2/2010	74.12	72.39	0.1680
1/31/2011	67.41	66.62	0.0767
5/3/2011	76.06	75.84	0.0214
7/26/2011	75.76	74.92	0.0816
11/7/2011	72.99	70.45	0.2466
2/29/2012	70.86	69.40	0.1417
5/1/2012	74.85	73.17	0.1631
7/30/2012	70.97	75.09	-0.4000
10/30/2012	74.39	72.81	0.1534
2/5/2013	68.30	67.75	0.0534
4/30/2013	75.80	75.64	0.0155
7/29/2013	79.82	79.59	0.0223
11/13/2013	73.86	71.92	0.1883
2/11/2014	69.43	68.88	0.0534
4/22/2014	77.00	76.87	0.0126
7/21/2014	75.88	74.80	0.1049
10/30/2014	69.75	68.05	0.1650
1/26/2015	68.77	68.39	0.0369
5/1/2015	77.04	77.17	-0.0126
8/3/2015	73.32	72.24	0.1049
10/21/2015	73.74	73.53	0.0204
1/24/2016	74.52	74.09	0.0417
4/25/2016	77.75	77.42	0.0320
7/25/2016	75.53	74.11	0.1379
10/17/2016	74.61	73.88	0.0709
1/20/2017	69.94	69.85	0.0087
4/14/2017	75.81	75.74	0.0068
7/14/2017	77.03	76.47	0.0544
		Average:	**0.0759**

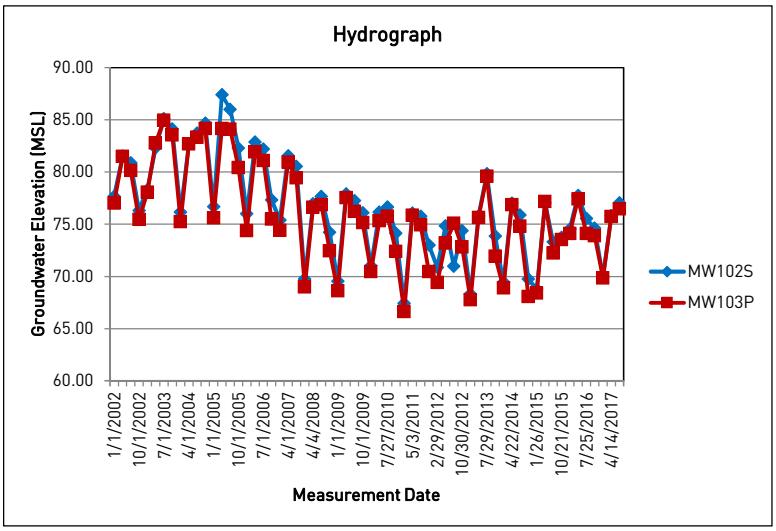
Well ID	Aquifer	TOC Elevation	Ground Elevation	Top of Screen	Bottom of Screen	Midpoint of Screen
MW102S	SSDL	167.72	164.22	42.22	37.22	39.72
MW103P	PSDL	167.42	163.92	31.92	26.92	29.42

TOC = Top of Well Casing

Vertical Gradient calculated using the following equation:

$$\frac{\text{(GWE Shallow Well - GWE Deep Well)}}{\text{(Shallow Screen midpoint - Deep Screen midpoint)}}$$

Where:
GWE= Groundwater Elevation



SMITH+GARDNER

Vertical Gradient Calculations
MW103P and UBC031

By: BJW
Date: 10/20/2017

Date	Well ID		Vertical Gradient
	MW103P	UBC031	
1/1/2002	77.02	76.23	0.0431
4/1/2002	81.50	83.03	-0.0835
7/1/2002	80.15	79.17	0.0535
10/1/2002	75.44	73.17	0.1239
1/1/2003	78.06	77.52	0.0295
4/1/2003	82.77	84.05	-0.0699
7/1/2003	84.95	85.71	-0.0415
10/1/2003	83.55	82.98	0.0311
1/1/2004	75.25	71.53	0.2031
4/1/2004	82.67	83.42	-0.0409
7/1/2004	83.33	83.27	0.0033
10/1/2004	84.16	84.04	0.0066
1/1/2005	75.60	71.79	0.2080
4/1/2005	84.16	84.40	-0.0131
7/1/2005	84.10	84.38	-0.0153
10/1/2005	80.42	79.67	0.0409
1/1/2006	74.39	72.40	0.1086
5/1/2006	81.92	82.52	-0.0328
7/1/2006	81.08	80.16	0.0502
11/1/2006	75.48	71.22	0.2325
1/1/2007	74.42	72.44	0.1081
4/1/2007	80.95	81.59	-0.0349
7/7/2007	79.44	77.79	0.0901
2/1/2008	68.98	66.71	0.1239
4/4/2008	76.61	76.84	-0.0126
7/1/2008	76.86	75.74	0.0611
10/1/2008	72.46	66.99	0.2986
1/1/2009	68.60	64.90	0.2020
4/1/2009	77.54	76.65	0.0486
7/1/2009	76.22	75.85	0.0202
10/1/2009	75.15	72.65	0.1365
1/1/2010	70.45	67.55	0.1583
4/1/2010	75.33	72.80	0.1381
7/27/2010	75.76	73.10	0.1452
11/2/2010	72.39	66.05	0.3461
1/31/2011	66.62	63.06	0.1943
5/3/2011	75.84	75.80	0.0022
7/26/2011	74.92	72.56	0.1288
11/7/2011	70.45	63.87	0.3592
2/29/2012	69.40	66.97	0.1326
5/1/2012	73.17	70.52	0.1447
7/30/2012	75.09	72.80	0.1250
10/30/2012	72.81	66.20	0.3608
2/5/2013	67.75	64.84	0.1588
4/30/2013	75.64	75.25	0.0213
7/29/2013	79.59	79.38	0.0115
11/13/2013	71.92	64.24	0.4192
2/11/2014	68.88	65.84	0.1659
4/22/2014	76.87	63.44	0.7331
7/21/2014	74.80	70.64	0.2271
10/30/2014	68.05	60.60	0.4067
1/26/2015	68.39	65.64	0.1501
5/1/2015	77.17	77.87	-0.0382
8/3/2015	72.24	67.97	0.2331
10/21/2015	73.53	72.15	0.0753
1/24/2016	74.09	71.98	0.1152
4/25/2016	77.42	76.93	0.0267
7/25/2016	74.11	69.36	0.2593
10/17/2016	73.88	70.36	0.1921
1/20/2017	69.85	68.36	0.0813
4/14/2017	75.74	74.97	0.0420
7/14/2017	76.47	75.27	0.0655
		Average:	**0.1203**

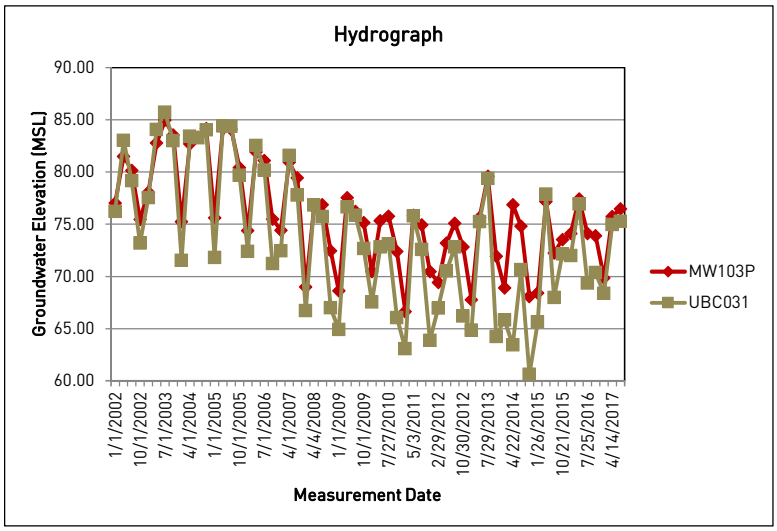
Well ID	Aquifer	TOC Elevation	Ground Elevation	Top of Screen	Bottom of Screen	Midpoint of Screen
MW103P	PSDL	167.42	163.92	31.92	26.92	29.42
UBC031	UBC	167.10	163.60	13.60	8.60	11.10

TOC = Top of Well Casing

Vertical Gradient calculated using the following equation:

$$\frac{\text{(GWE Shallow Well - GWE Deep Well)}}{\text{(Shallow Screen midpoint - Deep Screen midpoint)}}$$

Where:
GWE= Groundwater Elevation



SMITH+GARDNER

Vertical Gradient Calculations
MW098TR and MW092SR

By: BJW
Date: 10/20/2017

Date	Well ID		Vertical Gradient
	MW098TR	MW092SR	
1/1/2002	77.90	76.80	0.0733
4/1/2002	83.05	83.33	-0.0187
7/1/2002	83.38	80.66	0.1813
10/1/2002	76.57	74.10	0.1647
1/1/2003	77.98	77.54	0.0293
4/1/2003	82.37	83.74	-0.0913
7/1/2003	87.27	86.60	0.0447
10/1/2003	86.37	84.23	0.1427
1/1/2004	73.79	71.56	0.1487
4/1/2004	83.61	83.71	-0.0067
7/1/2004	85.57	84.30	0.0847
10/1/2004	85.50	84.74	0.0507
1/1/2005	74.68	71.30	0.2253
4/1/2005	84.46	84.53	-0.0047
7/1/2005	85.98	84.96	0.0680
10/1/2005	82.02	79.09	0.1953
1/1/2006	71.75	70.35	0.0933
5/1/2006	83.43	82.83	0.0400
7/1/2006	83.16	81.02	0.1427
11/1/2006	76.36	71.70	0.3107
1/1/2007	71.42	71.12	0.0200
4/1/2007	81.60	81.32	0.0187
7/7/2007	81.42	79.00	0.1613
2/1/2008	66.02	64.80	0.0813
4/4/2008	75.95	75.98	-0.0020
7/1/2008	77.99	76.24	0.1167
10/1/2008	74.47	68.23	0.4160
1/1/2009	64.91	63.09	0.1213
4/1/2009	77.38	76.49	0.0593
7/1/2009	75.95	75.30	0.0433
10/1/2009	75.84	73.19	0.1767
1/1/2010	65.73	65.10	0.0420
4/1/2010	76.05	72.28	0.2513
7/27/2010	76.75	74.08	0.1780
11/2/2010	74.48	67.88	0.4400
1/31/2011	62.28	60.98	0.0867
5/3/2011	75.20	74.85	0.0233
7/26/2011	75.88	72.98	0.1933
11/7/2011	71.88	64.98	0.4600
2/29/2012	65.51	64.73	0.0520
5/1/2012	72.00	69.35	0.1767
7/30/2012	75.86	72.87	0.1993
10/30/2012	74.21	68.16	0.4033
2/5/2013	63.23	62.12	0.0740
4/30/2013	74.21	74.06	0.0100
7/29/2013	79.88	78.96	0.0613
11/13/2013	73.25	65.82	0.4953
2/11/2014	63.64	62.84	0.0533
4/22/2014	62.95	63.21	-0.0173
7/21/2014	75.95	71.88	0.2713
10/30/2014	67.06	61.74	0.3547
1/26/2015	62.88	63.13	-0.0167
5/1/2015	96.20	76.25	1.3300
8/3/2015	71.88	68.54	0.2227
10/21/2015	71.13	71.10	0.0020
1/24/2016	71.27	70.19	0.0720
4/25/2016	78.39	75.06	0.2220
7/25/2016	74.76	68.63	0.4087
10/17/2016	73.79	70.98	0.1873
1/20/2017	65.27	65.80	-0.0353
4/14/2017	74.70	74.28	0.0280
7/14/2017	77.25	74.97	0.1520
		Average:	**0.1527**

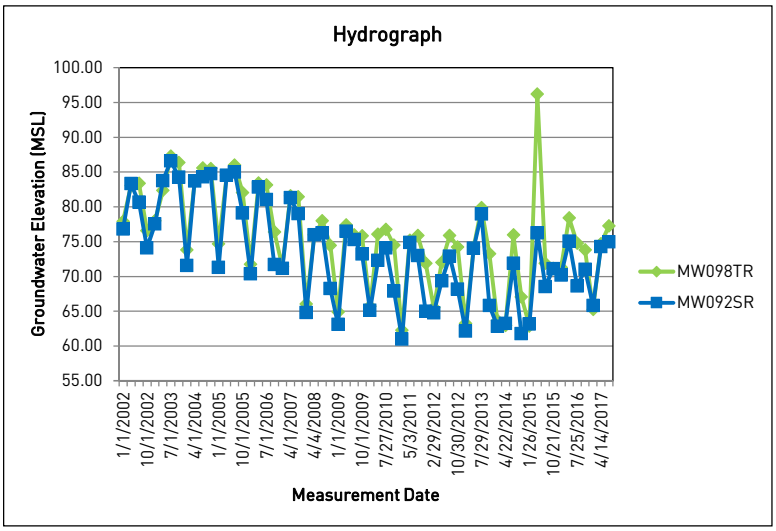
Well ID	Aquifer	TOC Elevation	Ground Elevation	Top of Screen	Bottom of Screen	Midpoint of Screen
MW098TR	TLS	177.65	174.17	43.17	38.17	40.67
MW092SR	SSDL	177.58	173.43	28.17	23.17	25.67

TOC = Top of Well Casing

Vertical Gradient calculated using the following equation:

$$\frac{\text{(GWE Shallow Well - GWE Deep Well)}}{\text{(Shallow Screen midpoint - Deep Screen midpoint)}}$$

Where:
GWE= Groundwater Elevation



SMITH+GARDNER

Vertical Gradient Calculations
MW092SR and MW093PR

By: BJW
Date: 10/20/2017

Date	Well ID		Vertical Gradient
	MW092SR	MW093PR	
1/1/2002	76.80	76.77	0.0028
4/1/2002	83.33	83.32	0.0009
7/1/2002	80.66	80.59	0.0065
10/1/2002	74.10	74.02	0.0074
1/1/2003	77.54	77.50	0.0037
4/1/2003	83.74	83.75	-0.0009
7/1/2003	86.60	86.57	0.0028
10/1/2003	84.23	84.17	0.0056
1/1/2004	71.56	71.52	0.0037
4/1/2004	83.71	83.70	0.0009
7/1/2004	84.30	84.23	0.0065
10/1/2004	84.74	84.71	0.0028
1/1/2005	71.30	71.22	0.0074
4/1/2005	84.53	84.39	0.0130
7/1/2005	84.96	84.93	0.0028
10/1/2005	79.09	78.94	0.0140
1/1/2006	70.35	70.42	-0.0065
5/1/2006	82.83	82.81	0.0019
7/1/2006	81.02	80.95	0.0065
11/1/2006	71.70	71.57	0.0121
1/1/2007	71.12	71.01	0.0102
4/1/2007	81.32	81.33	-0.0009
7/7/2007	79.00	78.90	0.0093
2/1/2008	64.80	64.83	-0.0028
4/4/2008	75.98	76.02	-0.0037
7/1/2008	76.24	76.20	0.0037
10/1/2008	68.23	68.07	0.0149
1/1/2009	63.09	63.10	-0.0009
4/1/2009	76.49	76.43	0.0056
7/1/2009	75.30	75.32	-0.0019
10/1/2009	73.19	73.12	0.0065
1/1/2010	65.10	65.13	-0.0028
4/1/2010	72.28	72.24	0.0037
7/27/2010	74.08	73.97	0.0102
11/2/2010	67.88	67.67	0.0196
1/31/2011	60.98	61.01	-0.0028
5/3/2011	74.85	74.87	-0.0019
7/26/2011	72.98	72.92	0.0056
11/7/2011	64.98	65.09	-0.0102
2/29/2012	64.73	65.22	-0.0456
5/1/2012	69.35	69.85	-0.0466
7/30/2012	72.87	73.05	-0.0168
10/30/2012	68.16	67.86	0.0279
2/5/2013	62.12	62.17	-0.0047
4/30/2013	74.06	74.08	-0.0019
7/29/2013	78.96	78.87	0.0084
11/13/2013	65.82	65.56	0.0242
2/11/2014	62.84	62.90	-0.0056
4/22/2014	63.21	63.15	0.0056
7/21/2014	71.88	71.72	0.0149
10/30/2014	61.74	61.57	0.0158
1/26/2015	63.13	63.15	-0.0019
5/1/2015	76.25	76.27	-0.0019
8/3/2015	68.54	68.31	0.0214
10/21/2015	71.10	71.10	0.0000
1/24/2016	70.19	70.18	0.0009
4/25/2016	75.06	74.97	0.0084
7/25/2016	68.63	68.49	0.0130
10/17/2016	70.98	70.88	0.0093
1/20/2017	65.80	65.86	-0.0056
4/14/2017	74.28	74.28	0.0000
7/14/2017	74.97	74.97	0.0000
		Average:	**0.0028**

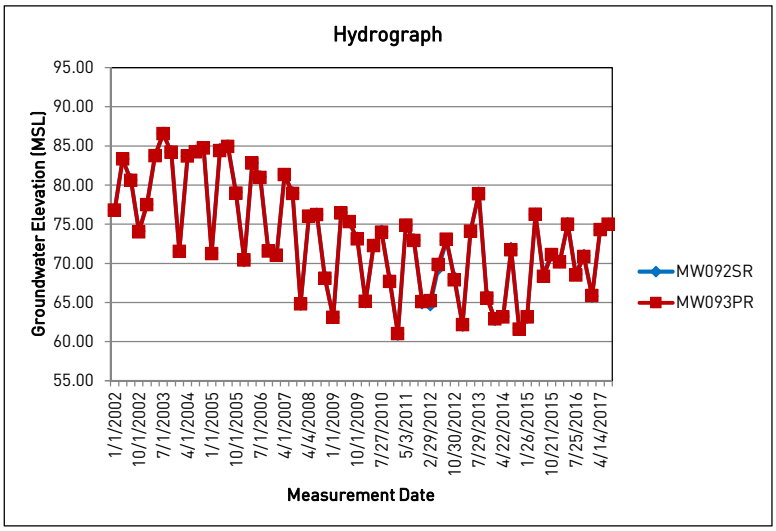
Well ID	Aquifer	TOC Elevation	Ground Elevation	Top of Screen	Bottom of Screen	Midpoint of Screen
MW092SR	SSDL	177.58	173.43	28.17	23.17	25.67
MW093PR	PSDL	177.27	173.43	17.43	12.43	14.93

TOC = Top of Well Casing

Vertical Gradient calculated using the following equation:

$$\frac{\text{(GWE Shallow Well - GWE Deep Well)}}{\text{(Shallow Screen midpoint - Deep Screen midpoint)}}$$

Where:
GWE= Groundwater Elevation



SMITH+GARDNER

Vertical Gradient Calculations
MW093PR and UBC027

By: BJW
Date: 10/20/2017

Date	Well ID		Vertical Gradient
	MW093PR	UBC027	
1/1/2002	76.77	76.25	0.0335
4/1/2002	83.32	83.27	0.0032
7/1/2002	80.59	79.50	0.0702
10/1/2002	74.02	72.90	0.0721
1/1/2003	77.50	77.45	0.0032
4/1/2003	83.75	84.14	-0.0251
7/1/2003	86.57	86.37	0.0129
10/1/2003	84.17	83.10	0.0689
1/1/2004	71.52	70.27	0.0805
4/1/2004	83.70	83.68	0.0013
7/1/2004	84.23	83.69	0.0348
10/1/2004	84.71	84.31	0.0258
1/1/2005	71.22	69.55	0.1075
4/1/2005	84.39	84.53	-0.0090
7/1/2005	84.93	84.53	0.0258
10/1/2005	78.94	76.28	0.1713
1/1/2006	70.42	71.49	-0.0689
5/1/2006	82.81	82.74	0.0045
7/1/2006	80.95	79.68	0.0818
11/1/2006	71.57	69.15	0.1558
1/1/2007	71.01	71.54	-0.0341
4/1/2007	81.33	81.63	-0.0193
7/7/2007	78.90	77.96	0.0605
2/1/2008	64.83	65.55	-0.0464
4/4/2008	76.02	76.50	-0.0309
7/1/2008	76.20	75.74	0.0296
10/1/2008	68.07	65.10	0.1912
1/1/2009	63.10	63.30	-0.0129
4/1/2009	76.43	75.03	0.0901
7/1/2009	75.32	76.20	-0.0567
10/1/2009	73.12	72.16	0.0618
1/1/2010	65.13	65.95	-0.0528
4/1/2010	72.24	71.90	0.0219
7/27/2010	73.97	72.43	0.0992
11/2/2010	67.67	64.00	0.2363
1/31/2011	61.01	61.47	-0.0296
5/3/2011	74.87	75.39	-0.0335
7/26/2011	72.92	72.12	0.0515
11/7/2011	65.09	62.01	0.1983
2/29/2012	65.22	65.69	-0.0303
5/1/2012	69.85	69.27	0.0373
7/30/2012	73.05	72.31	0.0476
10/30/2012	67.86	64.05	0.2453
2/5/2013	62.17	63.02	-0.0547
4/30/2013	74.08	74.40	-0.0206
7/29/2013	78.87	79.01	-0.0090
11/13/2013	65.56	61.54	0.2589
2/11/2014	62.90	63.72	-0.0528
4/22/2014	63.15	62.13	0.0657
7/21/2014	71.72	69.50	0.1429
10/30/2014	61.57	58.61	0.1906
1/26/2015	63.15	63.96	-0.0522
5/1/2015	76.27	77.28	-0.0650
8/3/2015	68.31	66.99	0.0850
10/21/2015	71.10	71.43	-0.0212
1/24/2016	70.18	70.39	-0.0135
4/25/2016	74.97	73.51	0.0940
7/25/2016	68.49	65.80	0.1732
10/17/2016	70.88	69.09	0.1153
1/20/2017	65.86	67.20	-0.0863
4/14/2017	74.28	74.02	0.0167
7/14/2017	74.97	74.84	0.0084
		Average:	**0.0427**

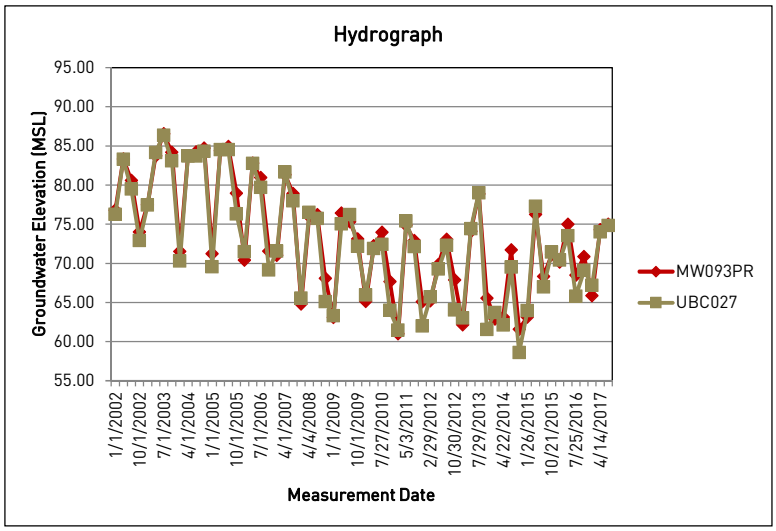
Well ID	Aquifer	TOC Elevation	Ground Elevation	Top of Screen	Bottom of Screen	Midpoint of Screen
MW093PR	PSDL	177.27	173.43	17.43	12.43	14.93
UBC027	UBC	177.30	173.90	1.90	-3.10	-0.60

TOC = Top of Well Casing

Vertical Gradient calculated using the following equation:

$$\frac{\text{(GWE Shallow Well - GWE Deep Well)}}{\text{(Shallow Screen midpoint - Deep Screen midpoint)}}$$

Where:
GWE= Groundwater Elevation



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Appendix B

Third Quarter Laboratory and Field Data

2017 Third Quarter Detection Monitoring Program Report
Pinewood Site
SCD 070 375 985

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SHEALY ENVIRONMENTAL SERVICES, INC.

Report of Analysis

Smith Gardner, Inc.
14 North Boylan Avenue
Raleigh, NC 27603
Attention: Kevin Anderson

Project Name: Pinewood LF GW (Detection Monitoring)

Lot Number:**SG17046**

Date Completed:08/02/2017

08/02/2017 3:16 PM
Approved and released by:
Project Manager: Kelly M. Nance

The electronic signature above is the equivalent of a handwritten signature.

Shealy Environmental Services, Inc.
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Case Narrative
Smith Gardner, Inc.
Lot Number: SG17046

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

Sample Summary
Smith Gardner, Inc.
Lot Number: SG17046

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	MW008TR	Aqueous	07/17/2017 1330	07/17/2017
002	MW006TR	Aqueous	07/17/2017 1310	07/17/2017
003	MW009A	Aqueous	07/17/2017 1350	07/17/2017
004	Full Field Blank	Aqueous	07/17/2017 1315	07/17/2017
005	Full Trip Blank	Aqueous	07/17/2017	07/17/2017

(5 samples)

Detection Summary

Smith Gardner, Inc.

Lot Number: SG17046

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	MW008TR	Aqueous	TDS	SM 2540C-	130		mg/L	5
001	MW008TR	Aqueous	Barium	6010D	0.060		mg/L	8
002	MW006TR	Aqueous	TDS	SM 2540C-	130		mg/L	10
002	MW006TR	Aqueous	Barium	6010D	0.054		mg/L	13
003	MW009A	Aqueous	Chloride	300.0	3.6		mg/L	15
003	MW009A	Aqueous	TDS	SM 2540C-	190		mg/L	15
003	MW009A	Aqueous	Barium	6010D	0.13		mg/L	18

(7 detections)

Inorganic non-metals

Client: **Smith Gardner, Inc.**
Laboratory ID: **SG17046-001**
Description: **MW008TR**
Matrix: **Aqueous**
Date Sampled: **07/17/2017 1330**
Date Received: **07/17/2017**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	07/17/2017 1330	CAE		
1		(Specific Con) 120.1	1	07/17/2017 1330	CAE		
1		(Temperature) SM 2550B-2010	1	07/17/2017 1330	CAE		
1		(Turbidity -) 180.1	1	07/17/2017 1330	CAE		
1		(Chloride) 300.0	1	07/27/2017 1829	TAF		47793
1		(TDS) SM 2540C-2011	1	07/21/2017 1715	AJG		47176

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		**SM 4500-H B**	**6.47**			**su**	**1**
Specific Conductance - Field		**120.1**	**120**		**1.00**	**umhos/cm**	**1**
Temperature - Field		**SM 2550B-20**	**22.3**			**° C**	**1**
Turbidity - Field		**180.1**	**3.9**		**1.0**	**NTU**	**1**
Chloride		300.0	ND		2.0	mg/L	1
TDS		**SM 2540C-20**	**130**		**10**	**mg/L**	**1**

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: **Smith Gardner, Inc.** Laboratory ID: **SG17046-001**

Description: **MW008TR** Matrix: **Aqueous**

Date Sampled: **07/17/2017 1330**

Date Received: **07/17/2017**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	07/25/2017 0730	JJG		47372

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		92	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: **Smith Gardner, Inc.** Laboratory ID: **SG17046-001**

Description: **MW008TR** Matrix: **Aqueous**

Date Sampled: **07/17/2017 1330**

Date Received: **07/17/2017**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/18/2017 1217	TML		46827

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		99	70-130
Bromofluorobenzene		103	70-130
Toluene-d8		104	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
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N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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ICP-AES Metals

Client: **Smith Gardner, Inc.**
Laboratory ID: **SG17046-001**
Description: **MW008TR**
Matrix: **Aqueous**
Date Sampled: **07/17/2017 1330**
Date Received: **07/17/2017**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010D	1	07/21/2017 1852	DDD	07/19/2017 0814	46895

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	**7440-39-3**	**6010D**	**0.060**		**0.025**	**mg/L**	**1**
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	ND		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	1
Nickel	7440-02-0	6010D	ND		0.040	mg/L	1
Zinc	7440-66-6	6010D	ND		0.020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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CVAA

Client: **Smith Gardner, Inc.**
Laboratory ID: **SG17046-001**
Description: **MW008TR**
Matrix: **Aqueous**
Date Sampled: **07/17/2017 1330**
Date Received: **07/17/2017**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	07/19/2017 1754	COH	07/18/2017 1003	46815

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury	7439-97-6	7470A	ND		0.00020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Inorganic non-metals

Client: **Smith Gardner, Inc.**
Laboratory ID: **SG17046-002**
Description: **MW006TR**
Matrix: **Aqueous**
Date Sampled: **07/17/2017 1310**
Date Received: **07/17/2017**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	07/17/2017 1310	CAE		
1		(Specific Con) 120.1	1	07/17/2017 1310	CAE		
1		(Temperature) SM 2550B-2010	1	07/17/2017 1310	CAE		
1		(Turbidity -) 180.1	1	07/17/2017 1310	CAE		
1		(Chloride) 300.0	1	07/27/2017 1854	TAF		47793
1		(TDS) SM 2540C-2011	1	07/20/2017 1147	AJG		47013

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		**SM 4500-H B**	**6.49**			**su**	**1**
Specific Conductance - Field		**120.1**	**110**		**1.00**	**umhos/cm**	**1**
Temperature - Field		**SM 2550B-20**	**21.9**			**° C**	**1**
Turbidity - Field		**180.1**	**4.0**		**1.0**	**NTU**	**1**
Chloride		300.0	ND		2.0	mg/L	1
TDS		**SM 2540C-20**	**130**		**10**	**mg/L**	**1**

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
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W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: **Smith Gardner, Inc.** Laboratory ID: **SG17046-002**

Description: **MW006TR** Matrix: **Aqueous**

Date Sampled: **07/17/2017 1310**

Date Received: **07/17/2017**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	07/25/2017 0754	JJG		47372

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		94	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
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E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: **Smith Gardner, Inc.**
Laboratory ID: **SG17046-002**
Description: **MW006TR**
Matrix: **Aqueous**
Date Sampled: **07/17/2017 1310**
Date Received: **07/17/2017**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/18/2017 1239	TML		46827

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		98	70-130
Bromofluorobenzene		103	70-130
Toluene-d8		103	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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ICP-AES Metals

Client: **Smith Gardner, Inc.**
Laboratory ID: **SG17046-002**
Description: **MW006TR**
Matrix: **Aqueous**
Date Sampled: **07/17/2017 1310**
Date Received: **07/17/2017**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010D	1	07/21/2017 1856	DDD	07/19/2017 0814	46895

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	**7440-39-3**	**6010D**	**0.054**		**0.025**	**mg/L**	**1**
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	ND		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	1
Nickel	7440-02-0	6010D	ND		0.040	mg/L	1
Zinc	7440-66-6	6010D	ND		0.020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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CVAA

Client: **Smith Gardner, Inc.**
Laboratory ID: **SG17046-002**
Description: **MW006TR**
Matrix: **Aqueous**
Date Sampled: **07/17/2017 1310**
Date Received: **07/17/2017**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	07/19/2017 1757	COH	07/18/2017 1003	46815

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury	7439-97-6	7470A	ND		0.00020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Inorganic non-metals

Client: **Smith Gardner, Inc.**
Laboratory ID: **SG17046-003**
Description: **MW009A**
Matrix: **Aqueous**
Date Sampled: **07/17/2017 1350**
Date Received: **07/17/2017**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	07/17/2017 1350	CAE		
1		(Specific Con) 120.1	1	07/17/2017 1350	CAE		
1		(Temperature) SM 2550B-2010	1	07/17/2017 1350	CAE		
1		(Turbidity -) 180.1	1	07/17/2017 1350	CAE		
1		(Chloride) 300.0	1	07/27/2017 1918	TAF		47793
1		(TDS) SM 2540C-2011	1	07/21/2017 1715	AJG		47176

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		**SM 4500-H B**	**6.38**			**su**	**1**
Specific Conductance - Field		**120.1**	**140**		**1.00**	**umhos/cm**	**1**
Temperature - Field		**SM 2550B-20**	**21.6**			**° C**	**1**
Turbidity - Field		**180.1**	**5.2**		**1.0**	**NTU**	**1**
Chloride		**300.0**	**3.6**		**2.0**	**mg/L**	**1**
TDS		**SM 2540C-20**	**190**		**10**	**mg/L**	**1**

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: **Smith Gardner, Inc.** Laboratory ID: **SG17046-003**

Description: **MW009A** Matrix: **Aqueous**

Date Sampled: **07/17/2017 1350**

Date Received: **07/17/2017**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	07/25/2017 0817	JJG		47372

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		88	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: **Smith Gardner, Inc.**
Laboratory ID: **SG17046-003**
Description: **MW009A**
Matrix: **Aqueous**
Date Sampled: **07/17/2017 1350**
Date Received: **07/17/2017**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/18/2017 1301	TML		46827

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		100	70-130
Bromofluorobenzene		102	70-130
Toluene-d8		102	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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ICP-AES Metals

Client: **Smith Gardner, Inc.**
Laboratory ID: **SG17046-003**
Description: **MW009A**
Matrix: **Aqueous**
Date Sampled: **07/17/2017 1350**
Date Received: **07/17/2017**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010D	1	07/21/2017 1910	DDD	07/19/2017 0814	46895

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	**7440-39-3**	**6010D**	**0.13**		**0.025**	**mg/L**	**1**
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	ND		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	1
Nickel	7440-02-0	6010D	ND		0.040	mg/L	1
Zinc	7440-66-6	6010D	ND		0.020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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CVAA

Client: **Smith Gardner, Inc.**
Laboratory ID: **SG17046-003**
Description: **MW009A**
Matrix: **Aqueous**
Date Sampled: **07/17/2017 1350**
Date Received: **07/17/2017**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	07/19/2017 1759	COH	07/18/2017 1003	46815

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury	7439-97-6	7470A	ND		0.00020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Inorganic non-metals

Client: **Smith Gardner, Inc.**
Laboratory ID: **SG17046-004**
Description: **Full Field Blank**
Matrix: **Aqueous**
Date Sampled: **07/17/2017 1315**
Date Received: **07/17/2017**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(Chloride) 300.0	1	07/27/2017 1942	TAF		47793
1		(TDS) SM 2540C-2011	1	07/21/2017 1715	AJG		47176

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Chloride		300.0	ND		2.0	mg/L	1
TDS		SM 2540C-20	ND		10	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: **Smith Gardner, Inc.**
Laboratory ID: **SG17046-004**
Description: **Full Field Blank**
Matrix: **Aqueous**
Date Sampled: **07/17/2017 1315**
Date Received: **07/17/2017**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	5030B	8260B (SIM iso.)	1	07/25/2017 1243	ECB		47411

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	2

Surrogate	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		94	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: **Smith Gardner, Inc.**
Laboratory ID: **SG17046-004**
Description: **Full Field Blank**
Matrix: **Aqueous**
Date Sampled: **07/17/2017 1315**
Date Received: **07/17/2017**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/18/2017 1134	TML		46827

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		96	70-130
Bromofluorobenzene		102	70-130
Toluene-d8		102	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
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N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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ICP-AES Metals

Client: **Smith Gardner, Inc.**
Laboratory ID: **SG17046-004**
Description: **Full Field Blank**
Matrix: **Aqueous**
Date Sampled: **07/17/2017 1315**
Date Received: **07/17/2017**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010D	1	07/21/2017 1914	DDD	07/19/2017 0814	46895

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	7440-39-3	6010D	ND		0.025	mg/L	1
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	ND		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	1
Nickel	7440-02-0	6010D	ND		0.040	mg/L	1
Zinc	7440-66-6	6010D	ND		0.020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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CVAA

Client: **Smith Gardner, Inc.**
Laboratory ID: **SG17046-004**
Description: **Full Field Blank**
Matrix: **Aqueous**
Date Sampled: **07/17/2017 1315**
Date Received: **07/17/2017**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	07/19/2017 1807	COH	07/18/2017 1003	46815

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury	7439-97-6	7470A	ND		0.00020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Inorganic non-metals

Client: **Smith Gardner, Inc.**
Laboratory ID: **SG17046-005**
Description: **Full Trip Blank**
Matrix: **Aqueous**
Date Sampled: **07/17/2017**
Date Received: **07/17/2017**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(Chloride) 300.0	1	07/27/2017 2006	TAF		47793
1		(TDS) SM 2540C-2011	1	07/20/2017 1147	AJG		47013

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Chloride		300.0	ND		2.0	mg/L	1
TDS		SM 2540C-20	ND		10	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: **Smith Gardner, Inc.** Laboratory ID: **SG17046-005**

Description: **Full Trip Blank** Matrix: **Aqueous**

Date Sampled: **07/17/2017**

Date Received: **07/17/2017**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	5030B	8260B (SIM iso.)	1	07/26/2017 1753	ECB		47558

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	2

Surrogate	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		102	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: **Smith Gardner, Inc.** Laboratory ID: **SG17046-005**

Description: **Full Trip Blank** Matrix: **Aqueous**

Date Sampled: **07/17/2017**

Date Received: **07/17/2017**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/18/2017 1155	TML		46827

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		102	70-130
Bromofluorobenzene		109	70-130
Toluene-d8		106	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
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N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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ICP-AES Metals

Client: **Smith Gardner, Inc.**
Laboratory ID: **SG17046-005**
Description: **Full Trip Blank**
Matrix: **Aqueous**
Date Sampled: **07/17/2017**
Date Received: **07/17/2017**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010D	1	07/25/2017 1542	CJZ	07/19/2017 1631	46953

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	7440-39-3	6010D	ND		0.025	mg/L	1
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	ND		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	1
Nickel	7440-02-0	6010D	ND		0.040	mg/L	1
Zinc	7440-66-6	6010D	ND		0.020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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CVAA

Client: **Smith Gardner, Inc.**
Laboratory ID: **SG17046-005**
Description: **Full Trip Blank**
Matrix: **Aqueous**
Date Sampled: **07/17/2017**
Date Received: **07/17/2017**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	07/19/2017 1814	COH	07/18/2017 1003	46815

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury	7439-97-6	7470A	ND		0.00020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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QC Summary

Inorganic non-metals - MB

Sample ID: SQ47013-001
Batch: 47013
Analytical Method: SM 2540C-2011
Matrix: Aqueous

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
TDS	ND		1	10	mg/L	07/20/2017 1147

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ
N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - LCS

Sample ID: SQ47013-002 **Matrix:** Aqueous

Batch: 47013

Analytical Method: SM 2540C-2011

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
TDS	1500	1500		1	98	90-110	07/20/2017 1147

LOQ = Limit of Quantitation

DL = Detection Limit

LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%

J = Estimated result < LOQ and ≥ DL

ND = Not detected at or above the LOQ

N = Recovery is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - MB

Sample ID: SQ47176-001
Batch: 47176
Analytical Method: SM 2540C-2011
Matrix: Aqueous

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
TDS	ND		1	10	mg/L	07/21/2017 1715

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ
N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - LCS

Sample ID: SQ47176-002
Batch: 47176
Analytical Method: SM 2540C-2011
Matrix: Aqueous

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
TDS	1500	1500		1	98	90-110	07/21/2017 1715

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ
N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - MB

Sample ID: SQ47793-001
Batch: 47793
Analytical Method: 300.0

Matrix: Aqueous

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
Chloride	ND		1	2.0	mg/L	07/27/2017 1317

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - LCS

Sample ID: SQ47793-002 **Matrix:** Aqueous

Batch: 47793

Analytical Method: 300.0

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Chloride	20	20		1	98	90-110	07/27/2017 1341

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ
N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - MB

Sample ID: SQ46827-001
Batch: 46827
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
Acrolein	ND		1	20	ug/L	07/18/2017 1017
Acrylonitrile	ND		1	20	ug/L	07/18/2017 1017
Benzene	ND		1	5.0	ug/L	07/18/2017 1017
Bromodichloromethane	ND		1	5.0	ug/L	07/18/2017 1017
Bromoform	ND		1	5.0	ug/L	07/18/2017 1017
Bromomethane (Methyl bromide)	ND		1	10	ug/L	07/18/2017 1017
Carbon tetrachloride	ND		1	5.0	ug/L	07/18/2017 1017
Chlorobenzene	ND		1	5.0	ug/L	07/18/2017 1017
Chloroethane	ND		1	10	ug/L	07/18/2017 1017
2-Chloroethylvinylether	ND		1	10	ug/L	07/18/2017 1017
Chloroform	ND		1	5.0	ug/L	07/18/2017 1017
Chloromethane (Methyl chloride)	ND		1	10	ug/L	07/18/2017 1017
Dibromochloromethane	ND		1	10	ug/L	07/18/2017 1017
1,1-Dichloroethane	ND		1	5.0	ug/L	07/18/2017 1017
1,2-Dichloroethane	ND		1	5.0	ug/L	07/18/2017 1017
1,1-Dichloroethene	ND		1	5.0	ug/L	07/18/2017 1017
cis-1,2-Dichloroethene	ND		1	5.0	ug/L	07/18/2017 1017
trans-1,2-Dichloroethene	ND		1	5.0	ug/L	07/18/2017 1017
1,2-Dichloropropane	ND		1	5.0	ug/L	07/18/2017 1017
cis-1,3-Dichloropropene	ND		1	5.0	ug/L	07/18/2017 1017
trans-1,3-Dichloropropene	ND		1	5.0	ug/L	07/18/2017 1017
Ethylbenzene	ND		1	5.0	ug/L	07/18/2017 1017
Methylene chloride	ND		1	5.0	ug/L	07/18/2017 1017
1,1,2,2-Tetrachloroethane	ND		1	5.0	ug/L	07/18/2017 1017
Tetrachloroethene	ND		1	5.0	ug/L	07/18/2017 1017
Toluene	ND		1	5.0	ug/L	07/18/2017 1017
1,1,1-Trichloroethane	ND		1	5.0	ug/L	07/18/2017 1017
1,1,2-Trichloroethane	ND		1	5.0	ug/L	07/18/2017 1017
Trichloroethene	ND		1	5.0	ug/L	07/18/2017 1017
Vinyl chloride	ND		1	2.0	ug/L	07/18/2017 1017

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		98	70-130
Bromofluorobenzene		102	70-130
Toluene-d8		104	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - LCS

Sample ID: SQ46827-002
Batch: 46827
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acrolein	500	650		1	130	60-140	07/18/2017 0920
Acrylonitrile	100	98		1	98	70-130	07/18/2017 0920
Benzene	50	51		1	102	70-130	07/18/2017 0920
Bromodichloromethane	50	49		1	98	70-130	07/18/2017 0920
Bromoform	50	50		1	99	70-130	07/18/2017 0920
Bromomethane (Methyl bromide)	50	58		1	116	70-130	07/18/2017 0920
Carbon tetrachloride	50	49		1	98	70-130	07/18/2017 0920
Chlorobenzene	50	50		1	101	70-130	07/18/2017 0920
Chloroethane	50	59		1	118	70-130	07/18/2017 0920
Chloroform	50	51		1	102	70-130	07/18/2017 0920
Chloromethane (Methyl chloride)	50	52		1	103	60-140	07/18/2017 0920
Dibromochloromethane	50	50		1	101	70-130	07/18/2017 0920
1,1-Dichloroethane	50	49		1	99	70-130	07/18/2017 0920
1,2-Dichloroethane	50	50		1	100	70-130	07/18/2017 0920
1,1-Dichloroethene	50	51		1	103	70-130	07/18/2017 0920
cis-1,2-Dichloroethene	50	50		1	100	70-130	07/18/2017 0920
trans-1,2-Dichloroethene	50	51		1	103	70-130	07/18/2017 0920
1,2-Dichloropropane	50	50		1	100	70-130	07/18/2017 0920
cis-1,3-Dichloropropene	50	52		1	104	70-130	07/18/2017 0920
trans-1,3-Dichloropropene	50	49		1	98	70-130	07/18/2017 0920
Ethylbenzene	50	51		1	101	70-130	07/18/2017 0920
Methylene chloride	50	50		1	100	70-130	07/18/2017 0920
1,1,2,2-Tetrachloroethane	50	48		1	97	70-130	07/18/2017 0920
Tetrachloroethene	50	53		1	107	70-130	07/18/2017 0920
Toluene	50	51		1	102	70-130	07/18/2017 0920
1,1,1-Trichloroethane	50	52		1	105	70-130	07/18/2017 0920
1,1,2-Trichloroethane	50	47		1	94	70-130	07/18/2017 0920
Trichloroethene	50	50		1	100	70-130	07/18/2017 0920
Vinyl chloride	50	52		1	103	70-130	07/18/2017 0920

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		97	70-130
Bromofluorobenzene		100	70-130
Toluene-d8		104	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution) - MB

Sample ID: SQ47372-001
Batch: 47372
Analytical Method: 8260B (SIM iso.)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
1,4-Dioxane	ND		1	3.0	ug/L	07/25/2017 0010

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		100	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution) - LCS

Sample ID: SQ47372-002
Batch: 47372
Analytical Method: 8260B (SIM iso.)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,4-Dioxane	50	44		1	88	70-130	07/24/2017 2245

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		97	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution) - LCSD

Sample ID: SQ47372-003
Batch: 47372
Analytical Method: 8260B (SIM iso.)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
1,4-Dioxane	50	44		1	88	0.50	70-130	20	07/24/2017 2309

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		76	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution) - MB

Sample ID: SQ47411-001
Batch: 47411
Analytical Method: 8260B (SIM iso.)
Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
1,4-Dioxane	ND		1	3.0	ug/L	07/25/2017 1118

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		93	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ
N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution) - LCS

Sample ID: SQ47411-002
Batch: 47411
Analytical Method: 8260B (SIM iso.)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,4-Dioxane	50	44		1	88	70-130	07/25/2017 1030

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		96	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution) - LCSD

Sample ID: SQ47411-003
Batch: 47411
Analytical Method: 8260B (SIM iso.)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
1,4-Dioxane	50	44		1	88	0.027	70-130	20	07/25/2017 1054

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		93	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution) - MB

Sample ID: SQ47558-001
Batch: 47558
Analytical Method: 8260B (SIM iso.)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
1,4-Dioxane	ND		1	3.0	ug/L	07/26/2017 1336

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		98	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution) - LCS

Sample ID: SQ47558-002
Batch: 47558
Analytical Method: 8260B (SIM iso.)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,4-Dioxane	50	47		1	95	70-130	07/26/2017 1247

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		96	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution) - LCSD

Sample ID: SQ47558-003
Batch: 47558
Analytical Method: 8260B (SIM iso.)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
1,4-Dioxane	50	45		1	90	5.2	70-130	20	07/26/2017 1311

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		94	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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ICP-AES Metals - MB

Sample ID: SQ46895-001
Batch: 46895
Analytical Method: 6010D
Matrix: Aqueous
Prep Method: 3005A
Prep Date: 07/19/2017 814

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
Arsenic	ND		1	0.015	mg/L	07/21/2017 1654
Barium	ND		1	0.025	mg/L	07/21/2017 1654
Cadmium	ND		1	0.0050	mg/L	07/21/2017 1654
Chromium	ND		1	0.010	mg/L	07/21/2017 1654
Lead	ND		1	0.010	mg/L	07/21/2017 1654
Nickel	ND		1	0.040	mg/L	07/21/2017 1654
Zinc	ND		1	0.020	mg/L	07/21/2017 1654

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ
N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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ICP-AES Metals - LCS

Sample ID: SQ46895-002
Batch: 46895
Analytical Method: 6010D
Matrix: Aqueous
Prep Method: 3005A
Prep Date: 07/19/2017 814

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Arsenic	0.40	0.39		1	97	80-120	07/21/2017 1658
Barium	2.0	1.9		1	97	80-120	07/21/2017 1658
Cadmium	0.40	0.39		1	98	80-120	07/21/2017 1658
Chromium	2.0	1.9		1	97	80-120	07/21/2017 1658
Lead	0.40	0.40		1	101	80-120	07/21/2017 1658
Nickel	2.0	1.9		1	97	80-120	07/21/2017 1658
Zinc	2.0	1.9		1	97	80-120	07/21/2017 1658

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ
N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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ICP-AES Metals - MB

Sample ID: SQ46953-001
Batch: 46953
Analytical Method: 6010D
Matrix: Aqueous
Prep Method: 3005A
Prep Date: 07/19/2017 1631

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
Arsenic	ND		1	0.015	mg/L	07/25/2017 1418
Barium	ND		1	0.025	mg/L	07/25/2017 1418
Cadmium	ND		1	0.0050	mg/L	07/25/2017 1418
Chromium	ND		1	0.010	mg/L	07/25/2017 1418
Lead	ND		1	0.010	mg/L	07/25/2017 1418
Nickel	ND		1	0.040	mg/L	07/25/2017 1418
Zinc	ND		1	0.020	mg/L	07/25/2017 1418

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ
N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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ICP-AES Metals - LCS

Sample ID: SQ46953-002
Batch: 46953
Analytical Method: 6010D
Matrix: Aqueous
Prep Method: 3005A
Prep Date: 07/19/2017 1631

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Arsenic	0.40	0.42		1	104	80-120	07/25/2017 1423
Barium	2.0	2.1		1	103	80-120	07/25/2017 1423
Cadmium	0.40	0.41		1	103	80-120	07/25/2017 1423
Chromium	2.0	2.1		1	104	80-120	07/25/2017 1423
Lead	0.40	0.42		1	105	80-120	07/25/2017 1423
Nickel	2.0	2.1		1	104	80-120	07/25/2017 1423
Zinc	2.0	2.1		1	104	80-120	07/25/2017 1423

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ
N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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CVAA - MB

Sample ID: SQ46815-001
Batch: 46815
Analytical Method: 7470A
Matrix: Aqueous
Prep Method: 7470A
Prep Date: 07/18/2017 1003

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
Mercury	ND		1	0.00020	mg/L	07/19/2017 1743

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ
N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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CVAA - LCS

Sample ID: SQ46815-002
Batch: 46815
Analytical Method: 7470A
Matrix: Aqueous
Prep Method: 7470A
Prep Date: 07/18/2017 1003

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Mercury	0.0020	0.0022		1	111	80-120	07/19/2017 1745

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ
N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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CVAA - MS

Sample ID: SG17046-003MS
Batch: 46815
Analytical Method: 7470A
Matrix: Aqueous
Prep Method: 7470A
Prep Date: 07/18/2017 1003

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Mercury	ND	0.0020	0.0021		1	107	85-115	07/19/2017 1802

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ
N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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CVAA - MSD

Sample ID: SG17046-003MD
Batch: 46815
Analytical Method: 7470A
Matrix: Aqueous
Prep Method: 7470A
Prep Date: 07/18/2017 1003

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Mercury	ND	0.0020	0.0021		1	104	2.8	85-115	20	07/19/2017 1804

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ
N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Chain of Custody
and
Miscellaneous Documents

Chain of Custody Record

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106 Vantage Point Drive • West Columbia, SC 29172
Telephone No. 803-791-9700 Fax No. 803-791-9111
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Number 68944

Client: St G
Address: 1526 Richland St
City: Cola State: SC Zip Code: 29201
Project Name: Pinewood
Project No.: Detect. Mons.
P.O. No.:
Report to Contact: K. Anderson
Sampler's Signature: x [signature] Ransom
Printed Name: Britt Ransom
Telephone No. / E-mail: kevin@smithgardnerinc.com
Quote No.:
Page 1 of 1
SG17046

Analysis (Attach list if more space is needed): VOC (SC); VOC SIM - 1,4; metals; Cl / TDS

Sample ID / Description (Containers for each sample may be combined on one line.)	Date 2017	Time	G=Grab C=Composite	Matrix: Aqueous	Solid	Non-Aqueous	Unpres.	H2SO4	HNO3	HCl	NaOH	Na2S2O3	VOC (SC)	VOC SIM-1,4	metals	Cl / TDS	Remarks / Cooler I.D.
MW008TR	7/17	1330	G	✓			2		1	6			✓	✓	✓	✓	
MW006TR	7/17	1310	G	✓			2		1	6			✓	✓	✓	✓	
MW009A	7/17	1350	G	✓			2		1	6			✓	✓	✓	✓	
Field Blank	7/17	1315		✓			2		1	6			✓	✓	✓	✓	
Trip Blank				✓			2		1	6			✓	✓	✓	✓	

Turn Around Time Required (Prior lab approval required for expedited TAT.) ☐ Standard ☐ Rush (Specify)
Sample Disposal: ☐ Return to Client ☐ Disposal by Lab
Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown
QC Requirements (Specify)

Relinquished by	Date	Time	Received by	Date	Time
1. [signature] Ransom	7/17/17	1425	1. [signature]	7/17/17	1425
2.			2.		
3. [signature]			3.		
4. [signature]	7/17/17	1535	4. Laboratory received by [signature]	7-17-17	1535

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

LAB USE ONLY
Received on ice (Circle) (Yes) No Ice Pack
Receipt Temp. 2.8 °C TB

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: F-AD-133 Effective Date: 08-01-2014

Shealy Environmental Services, Inc.
Document Number: ME0018C-08

Page 1 of 1
Effective Date: 03/07/2017
Expiry Date: 03/07/2022

Sample Receipt Checklist (SRC)

Client: Smith + Gardner Cooler Inspected by/date: EC 7-17-17 Lot #: 617046

Means of receipt: ☑ SESI ☐ Client ☐ UPS ☐ FedEx ☐ Other			
Yes ☐	No ☑		1. Were custody seals present on the cooler?
Yes ☐	No ☐	NA ☑	2. If custody seals were present, were they intact and unbroken?

pH strip ID: 17-854 Cl strip ID:

Cooler ID/Original temperature upon receipt/Derived (corrected) temperature upon receipt:

/ / °C 2.8 2.8 °C / / °C / / °C

Method: ☑ Temperature Blank ☐ Against Bottles IR Gun ID: 6 IR Gun Correction Factor: 0 °C

Method of coolant: ☑ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ None

Yes ☐	No ☐	NA ☑	3. If temperature of any cooler exceeded 6.0°C, was Project Manager Notified? PM was Notified by: phone / email / face-to-face (circle one).
Yes ☐	No ☐	NA ☑	4. Is the commercial courier's packing slip attached to this form?
Yes ☑	No ☐		5. Were proper custody procedures (relinquished/received) followed?
Yes ☑	No ☐		6. Were sample IDs listed on the COC?
Yes ☑	No ☐		7. Were sample IDs listed on all sample containers?
Yes ☑	No ☐		8. Was collection date & time listed on the COC?
Yes ☑	No ☐		9. Was collection date & time listed on all sample containers?
Yes ☑	No ☐		10. Did all container label information (ID, date, time) agree with the COC?
Yes ☑	No ☐		11. Were tests to be performed listed on the COC?
Yes ☑	No ☐		12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)?
Yes ☑	No ☐		13. Was adequate sample volume available?
Yes ☑	No ☐		14. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes ☐	No ☑		15. Were any samples containers missing/excess (circle one) samples Not listed on COC?
Yes ☑	No ☐	NA ☐	16. Were bubbles present >"pea-size" (¼"or 6mm in diameter) in any VOA vials?
Yes ☑	No ☐	NA ☐	17. Were all DRO/metals/nutrient samples received at a pH of < 2?
Yes ☐	No ☐	NA ☑	18. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9?
Yes ☐	No ☐	NA ☑	19. Were all applicable NH3/TKN/cyanide/phenol/BNA (< 0.5mg/L) samples free of residual chlorine?
Yes ☐	No ☐	NA ☑	20. Were collection temperatures documented on the COC for NC samples?
Yes ☐	No ☐	NA ☑	21. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc…) correctly transcribed from the COC into the comment section in LIMS?
Yes ☑	No ☐		22. Was the quote number used taken from the container label?

Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s) _____ were received incorrectly preserved and were adjusted accordingly in sample receiving with _____ (H_2SO_4, HNO_3, HCl, NaOH) using SR # _____.

Sample(s) 1 B (5) _____ were received with bubbles >6 mm in diameter.

Samples(s) _____ were received with TRC > 0.5 mg/L (If #21 is No) and were adjusted accordingly in sample receiving with sodium thiosulfate ($Na_2S_2O_3$) with Shealy ID: _____.

SC Drinking Water Project Sample(s) pH verified to be < 2 by _____ Date: _____

Sample(s) _____ were Not received at a pH of < 2 and were adjusted accordingly using SR# _____

Sample labels applied by: Evan Cobb Verified by: _____ Date: 7-17-17

Comments: _____

4"

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID MW008TR Sample Time 1330

Field Personnel CE, BR, F Sample Date 7/17/17

Weather Conditions OVERCAST Air Temperature (°F) 80°F

Total Depth (ft.) 66 (from well log) 25.45

Depth to Static Water Surface (ft.) 40.55

Calculated Well Volume (1 casing volume) (gal.) 17

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 85

Measured Flow Rate (gal/min) 0.5

Calculated Pumping Time (length of time in minutes) 170

Actual Pumping Time (length of time in minutes) 45

Check-back Time 1040

Recovery Time (if needed) 0

pH Calibration During Purging (4, 7, 10) (circle two) Actual Reading 4.01/7.01 pH

pH Calibration During Sampling (4, 7, 10) (circle two) Actual Reading 4.01/7.01 pH 7/17/17 Date

Purge Start Time	1005	Purge Stop Time	1125
Purge Date	7/17/17	Total Gallons Purged	17 (DRY)
Purge Method	WW		

	Well Volume Units	Initial	1	2	3	4	5
Volume Purged	gal.	—			(Sample		
Time	-	1005			1330		
Temperature	°C	20.9			22.3		
pH	Std. units	5.75			6.47		
Conductivity	µmhos/cm	120			120		
Turbidity	NTUs	—			3.89		

Additional Notes:

* This may be a runner

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☑ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☐
VOC	Yes ☑ No ☐	Cyanide (NaOH)	Yes ☐ No ☐
Metals (HNO_3)	Yes ☑ No ☐	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☐
Rinsate Blank	Yes ☐ No ☑	Field Blank	Yes ☐ No ☐
Metals verified (<2 pH)	Yes ☑ No ☐ (10% of samples verified per SAP)		

pH<2

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID MW 006 TR Sample Time 1310

Field Personnel CE, BR, F Sample Date 7/17/17

Weather Conditions OVERCAST ; 80 °F Air Temperature (°F) 80

Total Depth (ft.) 61 (from well log) 72.4

Depth to Static Water Surface (ft.) 38.60

Calculated Well Volume (1 casing volume) (gal.) 15

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 75

Measured Flow Rate (gal/min) 0.5

Calculated Pumping Time (length of time in minutes) 150

Actual Pumping Time (length of time in minutes) 35

Check-back Time 1030

Recovery Time (if needed) 3

pH Calibration During Purging (4, 7, 10) (circle two) Actual Reading 4.01 / 7.01 pH

pH Calibration During Sampling (4, 7, 10) (circle two) Actual Reading 4.01 / 7.01 pH 7/17/17 Date

Purge Start Time	1000	Purge Stop Time	1035	
Purge Date	7/17/17	Total Gallons Purged	15 (DRY)	
Purge Method	VW			

	Well Volume Units	Initial	1	2	3	4	5
Volume Purged	gal.	~~10~~			@ Sample		
Time	-	1000			1310		
Temperature	°C	21.4			21.9		
pH	Std. units	5.67			6.49		
Conductivity	µmhos/cm	120			110		
Turbidity	NTUs	—			3.98		

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☑ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☑
VOC	Yes ☑ No ☐	Cyanide (NaOH)	Yes ☐ No ☑
Metals (HNO_3)	Yes ☑ No ☐	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☑
Rinsate Blank	Yes ☐ No ☑	Field Blank	Yes ☑ No ☐
Metals verified (<2 pH)	Yes ☑ No ☐ (10% of samples verified per SAP)		

pH 2

FULL FIELD BLANKS @ 1315

2"

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID MW009A Sample Time 1350

Field Personnel CE, BR, FO Sample Date 7/17/17

Weather Conditions OVERCAST Air Temperature (°F) 80

Total Depth (ft.) 60 (from well log) ~~60~~ 19.03

Depth to Static Water Surface (ft.) 40.97

Calculated Well Volume (1 casing volume) (gal.) 4

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 20

Measured Flow Rate (gal/min) 0.5

Calculated Pumping Time (length of time in minutes) 40

Actual Pumping Time (length of time in minutes) 45

Check-back Time 1025

Recovery Time (if needed) 4

pH Calibration During Purging (4, 7, 10) (circle two) Actual Reading 4.01/7.01 pH

pH Calibration During Sampling (4, 7, 10) (circle two) Actual Reading 4.01/7.01 pH 7/17/17 Date

Purge Start Time	1015	Purge Stop Time	1100	
Purge Date	7/17/17	Total Gallons Purged	4 (DRY)	
Purge Method	WW			

	Well Volume Units	Initial	1	2	3	4	5
Volume Purged	gal.	—			(Sample)		
Time	-	1015			1350		
Temperature	°C	20.7			21.6		
pH	Std. units	6.27			6.38		
Conductivity	µmhos/cm	130			140		
Turbidity	NTUs	—			5.15		

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☒ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☒
VOC	Yes ☒ No ☐	Cyanide (NaOH)	Yes ☐ No ☒
Metals (HNO_3)	Yes ☒ No ☐	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☒
Rinsate Blank	Yes ☐ No ☒	Field Blank	Yes ☐ No ☒
Metals verified (<2 pH)	Yes ☒ No ☐	(10% of samples verified per SAP)	

pH 2

SHEALY ENVIRONMENTAL SERVICES, INC.

Report of Analysis

Smith Gardner, Inc.
14 North Boylan Avenue
Raleigh, NC 27603
Attention: Kevin Anderson

Project Name: Pinewood LF GW (Detection Monitoring)

Lot Number:**SG18071**

Date Completed:08/02/2017

08/02/2017 3:25 PM
Approved and released by:
Project Manager: Kelly M. Nance

The electronic signature above is the equivalent of a handwritten signature.

Shealy Environmental Services, Inc.
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Case Narrative
Smith Gardner, Inc.
Lot Number: SG18071

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

Inorganic Non-Metals
The RPD for TDS in the duplicate associated with sample -008 exceeded method control limits. The sample was re-analyzed outside of the 7-day holding time for confirmation.

Sample Summary
Smith Gardner, Inc.
Lot Number: SG18071

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	PSDL021	Aqueous	07/18/2017 1215	07/18/2017
002	MW041T	Aqueous	07/18/2017 1405	07/18/2017
003	MW042TR	Aqueous	07/18/2017 1415	07/18/2017
004	SL001	Aqueous	07/18/2017 1325	07/18/2017
005	SL002	Aqueous	07/18/2017 1300	07/18/2017
006	MW045T	Aqueous	07/18/2017 1320	07/18/2017
007	UBC010	Aqueous	07/18/2017 1340	07/18/2017
008	UBC053	Aqueous	07/18/2017 1345	07/18/2017
009	UBC011	Aqueous	07/18/2017 1355	07/18/2017
010	SL003	Aqueous	07/18/2017 1310	07/18/2017
011	MW043T	Aqueous	07/18/2017 1425	07/18/2017
012	MW071T	Aqueous	07/18/2017 1435	07/18/2017
013	Field Blank	Aqueous	07/18/2017 1225	07/18/2017

(13 samples)

Detection Summary

Smith Gardner, Inc.

Lot Number: SG18071

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	PSDL021	Aqueous	TDS	SM 2540C-	130		mg/L	5
001	PSDL021	Aqueous	Barium	6010D	0.10		mg/L	8
002	MW041T	Aqueous	TDS	SM 2540C-	160		mg/L	10
002	MW041T	Aqueous	Barium	6010D	0.070		mg/L	13
003	MW042TR	Aqueous	TDS	SM 2540C-	170		mg/L	15
003	MW042TR	Aqueous	Barium	6010D	0.059		mg/L	18
004	SL001	Aqueous	Chloride	300.0	11		mg/L	20
004	SL001	Aqueous	TDS	SM 2540C-	240		mg/L	20
004	SL001	Aqueous	Barium	6010D	0.025		mg/L	23
005	SL002	Aqueous	Chloride	300.0	5.1		mg/L	25
005	SL002	Aqueous	TDS	SM 2540C-	340		mg/L	25
005	SL002	Aqueous	Barium	6010D	0.025		mg/L	28
006	MW045T	Aqueous	Chloride	300.0	8.4		mg/L	30
006	MW045T	Aqueous	TDS	SM 2540C-	260		mg/L	30
006	MW045T	Aqueous	Barium	6010D	0.045		mg/L	33
007	UBC010	Aqueous	Chloride	300.0	2.3		mg/L	35
007	UBC010	Aqueous	TDS	SM 2540C-	140		mg/L	35
007	UBC010	Aqueous	Barium	6010D	0.16		mg/L	38
008	UBC053	Aqueous	Chloride	300.0	2.8		mg/L	40
008	UBC053	Aqueous	TDS	SM 2540C-	100		mg/L	40
008	UBC053	Aqueous	Barium	6010D	0.078		mg/L	43
009	UBC011	Aqueous	Chloride	300.0	2.5		mg/L	45
009	UBC011	Aqueous	TDS	SM 2540C-	170		mg/L	45
009	UBC011	Aqueous	Barium	6010D	0.083		mg/L	48
010	SL003	Aqueous	Chloride	300.0	3.3		mg/L	50
010	SL003	Aqueous	TDS	SM 2540C-	170		mg/L	50
010	SL003	Aqueous	Barium	6010D	0.10		mg/L	53
011	MW043T	Aqueous	Chloride	300.0	5.2		mg/L	55
011	MW043T	Aqueous	TDS	SM 2540C-	280		mg/L	55
011	MW043T	Aqueous	Barium	6010D	0.061		mg/L	58
012	MW071T	Aqueous	Chloride	300.0	2.5		mg/L	60
012	MW071T	Aqueous	TDS	SM 2540C-	150		mg/L	60
012	MW071T	Aqueous	Barium	6010D	0.11		mg/L	63

(33 detections)

Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SG18071-001
Description: PSDL021
Matrix: Aqueous
Date Sampled: 07/18/2017 1215
Date Received: 07/18/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	07/18/2017 1215	CAE		
1		(Specific Con) 120.1	1	07/18/2017 1215	CAE		
1		(Temperature) SM 2550B-2010	1	07/18/2017 1215	CAE		
1		(Turbidity -) 180.1	1	07/18/2017 1215	CAE		
1		(Chloride) 300.0	1	07/27/2017 2030	TAF		47793
1		(TDS) SM 2540C-2011	1	07/24/2017 1754	AJG		47342

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	5.94			su	1
Specific Conductance - Field		120.1	120		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	22.0			° C	1
Turbidity - Field		180.1	8.7		1.0	NTU	1
Chloride		300.0	ND		2.0	mg/L	1
TDS		SM 2540C-20	130		10	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SG18071-001
Description: PSDL021
Matrix: Aqueous
Date Sampled: 07/18/2017 1215
Date Received: 07/18/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	07/25/2017 1552	ECB		47411

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		93	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG18071-001
Description: PSDL021
Matrix: Aqueous
Date Sampled: 07/18/2017 1215
Date Received: 07/18/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/19/2017 2018	TML		46969

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		94	70-130
Bromofluorobenzene		98	70-130
Toluene-d8		98	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
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E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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ICP-AES Metals

Client: Smith Gardner, Inc.
Laboratory ID: SG18071-001
Description: PSDL021
Matrix: Aqueous
Date Sampled: 07/18/2017 1215
Date Received: 07/18/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010D	1	07/29/2017 0209	DDD	07/19/2017 1631	46954

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	7440-39-3	6010D	0.10		0.025	mg/L	1
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	ND		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	1
Nickel	7440-02-0	6010D	ND		0.040	mg/L	1
Zinc	7440-66-6	6010D	ND		0.020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

Shealy Environmental Services, Inc.
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

CVAA

Client: Smith Gardner, Inc.
Laboratory ID: SG18071-001
Description: PSDL021
Matrix: Aqueous
Date Sampled: 07/18/2017 1215
Date Received: 07/18/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	07/20/2017 0019	SLS	07/19/2017 1937	46991

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury	7439-97-6	7470A	ND		0.00020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SG18071-002
Description: MW041T
Matrix: Aqueous
Date Sampled: 07/18/2017 1405
Date Received: 07/18/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	07/18/2017 1405	CAE		
1		(Specific Con) 120.1	1	07/18/2017 1405	CAE		
1		(Temperature) SM 2550B-2010	1	07/18/2017 1405	CAE		
1		(Turbidity -) 180.1	1	07/18/2017 1405	CAE		
1		(Chloride) 300.0	1	07/27/2017 2054	TAF		47793
1		(TDS) SM 2540C-2011	1	07/25/2017 1210	MGM		47389

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	6.29			su	1
Specific Conductance - Field		120.1	110		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	27.7			° C	1
Turbidity - Field		180.1	4.8		1.0	NTU	1
Chloride		300.0	ND		2.0	mg/L	1
TDS		SM 2540C-20	160		10	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SG18071-002
Description: MW041T
Matrix: Aqueous
Date Sampled: 07/18/2017 1405
Date Received: 07/18/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	07/25/2017 1616	ECB		47411

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		96	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG18071-002
Description: MW041T
Matrix: Aqueous
Date Sampled: 07/18/2017 1405
Date Received: 07/18/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/19/2017 2041	TML		46969

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		96	70-130
Bromofluorobenzene		101	70-130
Toluene-d8		100	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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ICP-AES Metals

Client: Smith Gardner, Inc.
Laboratory ID: SG18071-002
Description: MW041T
Matrix: Aqueous
Date Sampled: 07/18/2017 1405
Date Received: 07/18/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010D	1	07/29/2017 0239	DDD	07/19/2017 1631	46954

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	7440-39-3	6010D	0.070		0.025	mg/L	1
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	ND		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	1
Nickel	7440-02-0	6010D	ND		0.040	mg/L	1
Zinc	7440-66-6	6010D	ND		0.020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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CVAA

Client: Smith Gardner, Inc.
Laboratory ID: SG18071-002
Description: MW041T
Matrix: Aqueous
Date Sampled: 07/18/2017 1405
Date Received: 07/18/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	07/20/2017 0022	SLS	07/19/2017 1937	46991

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury	7439-97-6	7470A	ND		0.00020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SG18071-003
Description: MW042TR
Matrix: Aqueous
Date Sampled: 07/18/2017 1415
Date Received: 07/18/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	07/18/2017 1415	CAE		
1		(Specific Con) 120.1	1	07/18/2017 1415	CAE		
1		(Temperature) SM 2550B-2010	1	07/18/2017 1415	CAE		
1		(Turbidity -) 180.1	1	07/18/2017 1415	CAE		
1		(Chloride) 300.0	1	07/27/2017 2118	TAF		47793
1		(TDS) SM 2540C-2011	1	07/25/2017 1210	MGM		47389

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	6.11			su	1
Specific Conductance - Field		120.1	120		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	29.3			° C	1
Turbidity - Field		180.1	9.7		1.0	NTU	1
Chloride		300.0	ND		2.0	mg/L	1
TDS		SM 2540C-20	170		10	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SG18071-003
Description: MW042TR
Matrix: Aqueous
Date Sampled: 07/18/2017 1415
Date Received: 07/18/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	07/25/2017 1639	ECB		47411

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		98	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG18071-003
Description: MW042TR
Matrix: Aqueous
Date Sampled: 07/18/2017 1415
Date Received: 07/18/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/19/2017 2104	TML		46969

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		95	70-130
Bromofluorobenzene		101	70-130
Toluene-d8		100	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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ICP-AES Metals

Client: Smith Gardner, Inc.
Laboratory ID: SG18071-003
Description: MW042TR
Matrix: Aqueous
Date Sampled: 07/18/2017 1415
Date Received: 07/18/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010D	1	07/29/2017 0244	DDD	07/19/2017 1631	46954

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	7440-39-3	6010D	0.059		0.025	mg/L	1
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	ND		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	1
Nickel	7440-02-0	6010D	ND		0.040	mg/L	1
Zinc	7440-66-6	6010D	ND		0.020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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CVAA

Client: Smith Gardner, Inc.
Laboratory ID: SG18071-003
Description: MW042TR
Matrix: Aqueous
Date Sampled: 07/18/2017 1415
Date Received: 07/18/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	07/20/2017 0030	SLS	07/19/2017 1937	46991

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury	7439-97-6	7470A	ND		0.00020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SG18071-004
Description: SL001
Matrix: Aqueous
Date Sampled: 07/18/2017 1325
Date Received: 07/18/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	07/18/2017 1325	CAE		
1		(Specific Con) 120.1	1	07/18/2017 1325	CAE		
1		(Temperature) SM 2550B-2010	1	07/18/2017 1325	CAE		
1		(Turbidity -) 180.1	1	07/18/2017 1325	CAE		
1		(Chloride) 300.0	1	07/27/2017 2318	TAF		47793
1		(TDS) SM 2540C-2011	1	07/24/2017 1754	AJG		47342

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	6.03			su	1
Specific Conductance - Field		120.1	170		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	24.0			° C	1
Turbidity - Field		180.1	2.6		1.0	NTU	1
Chloride		300.0	11		2.0	mg/L	1
TDS		SM 2540C-20	240		10	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SG18071-004
Description: SL001
Matrix: Aqueous
Date Sampled: 07/18/2017 1325
Date Received: 07/18/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	07/25/2017 1703	ECB		47411

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		84	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG18071-004
Description: SL001
Matrix: Aqueous
Date Sampled: 07/18/2017 1325
Date Received: 07/18/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/19/2017 2126	TML		46969

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		95	70-130
Bromofluorobenzene		101	70-130
Toluene-d8		99	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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ICP-AES Metals

Client: Smith Gardner, Inc.
Laboratory ID: SG18071-004
Description: SL001
Matrix: Aqueous
Date Sampled: 07/18/2017 1325
Date Received: 07/18/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010D	1	07/29/2017 0248	DDD	07/19/2017 1631	46954

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	7440-39-3	6010D	0.025		0.025	mg/L	1
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	ND		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	1
Nickel	7440-02-0	6010D	ND		0.040	mg/L	1
Zinc	7440-66-6	6010D	ND		0.020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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CVAA

Client: Smith Gardner, Inc.
Laboratory ID: SG18071-004
Description: SL001
Matrix: Aqueous
Date Sampled: 07/18/2017 1325
Date Received: 07/18/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	07/20/2017 0032	SLS	07/19/2017 1937	46991

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury	7439-97-6	7470A	ND		0.00020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SG18071-005
Description: SL002
Matrix: Aqueous
Date Sampled: 07/18/2017 1300
Date Received: 07/18/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	07/18/2017 1300	CAE		
1		(Specific Con) 120.1	1	07/18/2017 1300	CAE		
1		(Temperature) SM 2550B-2010	1	07/18/2017 1300	CAE		
1		(Turbidity -) 180.1	1	07/18/2017 1300	CAE		
1		(Chloride) 300.0	1	07/27/2017 2342	TAF		47793
1		(TDS) SM 2540C-2011	1	07/24/2017 1754	AJG		47342

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	6.45			su	1
Specific Conductance - Field		120.1	180		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	24.1			° C	1
Turbidity - Field		180.1	14		1.0	NTU	1
Chloride		300.0	5.1		2.0	mg/L	1
TDS		SM 2540C-20	340		10	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SG18071-005
Description: SL002
Matrix: Aqueous
Date Sampled: 07/18/2017 1300
Date Received: 07/18/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	07/25/2017 1726	ECB		47411

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		92	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG18071-005
Description: SL002
Matrix: Aqueous
Date Sampled: 07/18/2017 1300
Date Received: 07/18/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/19/2017 2154	ECP		46996

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		96	70-130
Bromofluorobenzene		103	70-130
Toluene-d8		104	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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ICP-AES Metals

Client: Smith Gardner, Inc.
Laboratory ID: SG18071-005
Description: SL002
Matrix: Aqueous
Date Sampled: 07/18/2017 1300
Date Received: 07/18/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010D	1	07/29/2017 0253	DDD	07/19/2017 1631	46954

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	7440-39-3	6010D	0.025		0.025	mg/L	1
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	ND		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	1
Nickel	7440-02-0	6010D	ND		0.040	mg/L	1
Zinc	7440-66-6	6010D	ND		0.020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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CVAA

Client: Smith Gardner, Inc.
Laboratory ID: SG18071-005
Description: SL002
Matrix: Aqueous
Date Sampled: 07/18/2017 1300
Date Received: 07/18/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	07/20/2017 0035	SLS	07/19/2017 1937	46991

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury	7439-97-6	7470A	ND		0.00020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SG18071-006
Description: MW045T
Matrix: Aqueous
Date Sampled: 07/18/2017 1320
Date Received: 07/18/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	07/18/2017 1320	CAE		
1		(Specific Con) 120.1	1	07/18/2017 1320	CAE		
1		(Temperature) SM 2550B-2010	1	07/18/2017 1320	CAE		
1		(Turbidity -) 180.1	1	07/18/2017 1320	CAE		
1		(Chloride) 300.0	1	07/28/2017 0006	TAF		47793
1		(TDS) SM 2540C-2011	1	07/24/2017 1754	AJG		47342

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	6.53			su	1
Specific Conductance - Field		120.1	170		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	25.8			° C	1
Turbidity - Field		180.1	9.2		1.0	NTU	1
Chloride		300.0	8.4		2.0	mg/L	1
TDS		SM 2540C-20	260		10	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SG18071-006
Description: MW045T
Matrix: Aqueous
Date Sampled: 07/18/2017 1320
Date Received: 07/18/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	07/25/2017 1750	ECB		47411

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		94	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG18071-006
Description: MW045T
Matrix: Aqueous
Date Sampled: 07/18/2017 1320
Date Received: 07/18/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/19/2017 2216	ECP		46996

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		97	70-130
Bromofluorobenzene		107	70-130
Toluene-d8		104	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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ICP-AES Metals

Client: Smith Gardner, Inc.
Laboratory ID: SG18071-006
Description: MW045T
Matrix: Aqueous
Date Sampled: 07/18/2017 1320
Date Received: 07/18/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010D	1	07/29/2017 0257	DDD	07/19/2017 1631	46954

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	7440-39-3	6010D	0.045		0.025	mg/L	1
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	ND		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	1
Nickel	7440-02-0	6010D	ND		0.040	mg/L	1
Zinc	7440-66-6	6010D	ND		0.020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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CVAA

Client: Smith Gardner, Inc.
Laboratory ID: SG18071-006
Description: MW045T
Matrix: Aqueous
Date Sampled: 07/18/2017 1320
Date Received: 07/18/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	07/19/2017 2348	SLS	07/19/2017 1937	46991

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury	7439-97-6	7470A	ND		0.00020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SG18071-007
Description: UBC010
Matrix: Aqueous
Date Sampled: 07/18/2017 1340
Date Received: 07/18/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	07/18/2017 1340	CAE		
1		(Specific Con) 120.1	1	07/18/2017 1340	CAE		
1		(Temperature) SM 2550B-2010	1	07/18/2017 1340	CAE		
1		(Turbidity -) 180.1	1	07/18/2017 1340	CAE		
1		(Chloride) 300.0	1	07/28/2017 0030	TAF		47793
1		(TDS) SM 2540C-2011	1	07/25/2017 1210	MGM		47389

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	6.44			su	1
Specific Conductance - Field		120.1	120		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	20.9			° C	1
Turbidity - Field		180.1	1.4		1.0	NTU	1
Chloride		300.0	2.3		2.0	mg/L	1
TDS		SM 2540C-20	140		10	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SG18071-007
Description: UBC010
Matrix: Aqueous
Date Sampled: 07/18/2017 1340
Date Received: 07/18/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	07/25/2017 1814	ECB		47411

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		92	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG18071-007
Description: UBC010
Matrix: Aqueous
Date Sampled: 07/18/2017 1340
Date Received: 07/18/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/19/2017 2238	ECP		46996

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		94	70-130
Bromofluorobenzene		102	70-130
Toluene-d8		101	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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ICP-AES Metals

Client: Smith Gardner, Inc.
Laboratory ID: SG18071-007
Description: UBC010
Matrix: Aqueous
Date Sampled: 07/18/2017 1340
Date Received: 07/18/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010D	1	07/29/2017 0302	DDD	07/19/2017 1631	46954

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	7440-39-3	6010D	0.16		0.025	mg/L	1
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	ND		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	1
Nickel	7440-02-0	6010D	ND		0.040	mg/L	1
Zinc	7440-66-6	6010D	ND		0.020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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CVAA

Client: Smith Gardner, Inc.
Laboratory ID: SG18071-007
Description: UBC010
Matrix: Aqueous
Date Sampled: 07/18/2017 1340
Date Received: 07/18/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	07/19/2017 2350	SLS	07/19/2017 1937	46991

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury	7439-97-6	7470A	ND		0.00020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SG18071-008
Description: UBC053
Matrix: Aqueous
Date Sampled: 07/18/2017 1345
Date Received: 07/18/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	07/18/2017 1345	CAE		
1		(Specific Con) 120.1	1	07/18/2017 1345	CAE		
1		(Temperature) SM 2550B-2010	1	07/18/2017 1345	CAE		
1		(Turbidity -) 180.1	1	07/18/2017 1345	CAE		
1		(Chloride) 300.0	1	07/28/2017 0054	TAF		47793
1		(TDS) SM 2540C-2011	1	07/25/2017 1210	MGM		47389

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	6.58			su	1
Specific Conductance - Field		120.1	120		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	21.0			° C	1
Turbidity - Field		180.1	1.5		1.0	NTU	1
Chloride		300.0	2.8		2.0	mg/L	1
TDS		SM 2540C-20	100		10	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SG18071-008
Description: UBC053
Matrix: Aqueous
Date Sampled: 07/18/2017 1345
Date Received: 07/18/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	07/25/2017 1838	ECB		47411

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		89	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

Shealy Environmental Services, Inc.
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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG18071-008
Description: UBC053
Matrix: Aqueous
Date Sampled: 07/18/2017 1345
Date Received: 07/18/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/19/2017 2300	ECP		46996

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		98	70-130
Bromofluorobenzene		107	70-130
Toluene-d8		106	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
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N = Recovery is out of criteria
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E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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ICP-AES Metals

Client: Smith Gardner, Inc.
Laboratory ID: SG18071-008
Description: UBC053
Matrix: Aqueous
Date Sampled: 07/18/2017 1345
Date Received: 07/18/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010D	1	07/29/2017 0315	DDD	07/19/2017 1631	46954

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	7440-39-3	6010D	0.078		0.025	mg/L	1
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	ND		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	1
Nickel	7440-02-0	6010D	ND		0.040	mg/L	1
Zinc	7440-66-6	6010D	ND		0.020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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CVAA

Client: Smith Gardner, Inc.
Laboratory ID: SG18071-008
Description: UBC053
Matrix: Aqueous
Date Sampled: 07/18/2017 1345
Date Received: 07/18/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	07/19/2017 2353	SLS	07/19/2017 1937	46991

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury	7439-97-6	7470A	ND		0.00020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SG18071-009
Description: UBC011
Matrix: Aqueous
Date Sampled: 07/18/2017 1355
Date Received: 07/18/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	07/18/2017 1355	CAE		
1		(Specific Con) 120.1	1	07/18/2017 1355	CAE		
1		(Temperature) SM 2550B-2010	1	07/18/2017 1355	CAE		
1		(Turbidity -) 180.1	1	07/18/2017 1355	CAE		
1		(Chloride) 300.0	1	07/28/2017 0119	TAF		47793
1		(TDS) SM 2540C-2011	1	07/25/2017 1210	MGM		47389

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	6.54			su	1
Specific Conductance - Field		120.1	110		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	21.4			° C	1
Turbidity - Field		180.1	1.3		1.0	NTU	1
Chloride		300.0	2.5		2.0	mg/L	1
TDS		SM 2540C-20	170		10	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SG18071-009
Description: UBC011
Matrix: Aqueous
Date Sampled: 07/18/2017 1355
Date Received: 07/18/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	07/25/2017 2231	JJG		47490

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		94	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG18071-009
Description: UBC011
Matrix: Aqueous
Date Sampled: 07/18/2017 1355
Date Received: 07/18/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/19/2017 2321	ECP		46996

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		96	70-130
Bromofluorobenzene		101	70-130
Toluene-d8		103	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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ICP-AES Metals

Client: Smith Gardner, Inc.
Laboratory ID: SG18071-009
Description: UBC011
Matrix: Aqueous
Date Sampled: 07/18/2017 1355
Date Received: 07/18/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010D	1	07/29/2017 0319	DDD	07/19/2017 1631	46954

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	7440-39-3	6010D	0.083		0.025	mg/L	1
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	ND		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	1
Nickel	7440-02-0	6010D	ND		0.040	mg/L	1
Zinc	7440-66-6	6010D	ND		0.020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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CVAA

Client: Smith Gardner, Inc.
Laboratory ID: SG18071-009
Description: UBC011
Matrix: Aqueous
Date Sampled: 07/18/2017 1355
Date Received: 07/18/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	07/19/2017 2356	SLS	07/19/2017 1937	46991

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury	7439-97-6	7470A	ND		0.00020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SG18071-010
Description: SL003
Matrix: Aqueous
Date Sampled: 07/18/2017 1310
Date Received: 07/18/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	07/18/2017 1310	CAE		
1		(Specific Con) 120.1	1	07/18/2017 1310	CAE		
1		(Temperature) SM 2550B-2010	1	07/18/2017 1310	CAE		
1		(Turbidity -) 180.1	1	07/18/2017 1310	CAE		
1		(Chloride) 300.0	1	07/28/2017 0143	TAF		47793
1		(TDS) SM 2540C-2011	1	07/24/2017 1754	AJG		47342

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	6.46			su	1
Specific Conductance - Field		120.1	140		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	23.8			° C	1
Turbidity - Field		180.1	3.7		1.0	NTU	1
Chloride		300.0	3.3		2.0	mg/L	1
TDS		SM 2540C-20	170		10	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SG18071-010
Description: SL003
Matrix: Aqueous
Date Sampled: 07/18/2017 1310
Date Received: 07/18/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	07/25/2017 2254	JJG		47490

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		94	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG18071-010
Description: SL003
Matrix: Aqueous
Date Sampled: 07/18/2017 1310
Date Received: 07/18/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/19/2017 2343	ECP		46996

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		99	70-130
Bromofluorobenzene		111	70-130
Toluene-d8		107	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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ICP-AES Metals

Client: Smith Gardner, Inc.
Laboratory ID: SG18071-010
Description: SL003
Matrix: Aqueous
Date Sampled: 07/18/2017 1310
Date Received: 07/18/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010D	1	07/29/2017 0324	DDD	07/19/2017 1631	46954

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	7440-39-3	6010D	0.10		0.025	mg/L	1
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	ND		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	1
Nickel	7440-02-0	6010D	ND		0.040	mg/L	1
Zinc	7440-66-6	6010D	ND		0.020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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CVAA

Client: Smith Gardner, Inc.
Laboratory ID: SG18071-010
Description: SL003
Matrix: Aqueous
Date Sampled: 07/18/2017 1310
Date Received: 07/18/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	07/19/2017 2359	SLS	07/19/2017 1937	46991

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury	7439-97-6	7470A	ND		0.00020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SG18071-011
Description: MW043T
Matrix: Aqueous
Date Sampled: 07/18/2017 1425
Date Received: 07/18/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	07/18/2017 1425	CAE		
1		(Specific Con) 120.1	1	07/18/2017 1425	CAE		
1		(Temperature) SM 2550B-2010	1	07/18/2017 1425	CAE		
1		(Turbidity -) 180.1	1	07/18/2017 1425	CAE		
1		(Chloride) 300.0	1	07/31/2017 2142	TAF		48122
1		(TDS) SM 2540C-2011	1	07/25/2017 1210	MGM		47389

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	6.26			su	1
Specific Conductance - Field		120.1	170		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	25.3			° C	1
Turbidity - Field		180.1	3.4		1.0	NTU	1
Chloride		300.0	5.2		2.0	mg/L	1
TDS		SM 2540C-20	280		10	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SG18071-011
Description: MW043T
Matrix: Aqueous
Date Sampled: 07/18/2017 1425
Date Received: 07/18/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	07/25/2017 2318	JJG		47490

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		95	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG18071-011
Description: MW043T
Matrix: Aqueous
Date Sampled: 07/18/2017 1425
Date Received: 07/18/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/20/2017 0004	ECP		46996

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		95	70-130
Bromofluorobenzene		104	70-130
Toluene-d8		103	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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ICP-AES Metals

Client: Smith Gardner, Inc.
Laboratory ID: SG18071-011
Description: MW043T
Matrix: Aqueous
Date Sampled: 07/18/2017 1425
Date Received: 07/18/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010D	1	07/29/2017 0328	DDD	07/19/2017 1631	46954

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	7440-39-3	6010D	0.061		0.025	mg/L	1
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	ND		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	1
Nickel	7440-02-0	6010D	ND		0.040	mg/L	1
Zinc	7440-66-6	6010D	ND		0.020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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CVAA

Client: Smith Gardner, Inc.
Laboratory ID: SG18071-011
Description: MW043T
Matrix: Aqueous
Date Sampled: 07/18/2017 1425
Date Received: 07/18/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	07/20/2017 0001	SLS	07/19/2017 1937	46991

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury	7439-97-6	7470A	ND		0.00020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SG18071-012
Description: MW071T
Matrix: Aqueous
Date Sampled: 07/18/2017 1435
Date Received: 07/18/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	07/18/2017 1435	CAE		
1		(Specific Con) 120.1	1	07/18/2017 1435	CAE		
1		(Temperature) SM 2550B-2010	1	07/18/2017 1435	CAE		
1		(Turbidity -) 180.1	1	07/18/2017 1435	CAE		
1		(Chloride) 300.0	1	07/31/2017 2206	TAF		48122
1		(TDS) SM 2540C-2011	1	07/25/2017 1210	MGM		47389

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	6.26			su	1
Specific Conductance - Field		120.1	110		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	24.2			° C	1
Turbidity - Field		180.1	11		1.0	NTU	1
Chloride		300.0	2.5		2.0	mg/L	1
TDS		SM 2540C-20	150		10	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SG18071-012
Description: MW071T
Matrix: Aqueous
Date Sampled: 07/18/2017 1435
Date Received: 07/18/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	07/25/2017 2341	JJG		47490

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		97	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG18071-012
Description: MW071T
Matrix: Aqueous
Date Sampled: 07/18/2017 1435
Date Received: 07/18/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/20/2017 0026	ECP		46996

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		96	70-130
Bromofluorobenzene		105	70-130
Toluene-d8		105	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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ICP-AES Metals

Client: Smith Gardner, Inc.
Laboratory ID: SG18071-012
Description: MW071T
Matrix: Aqueous
Date Sampled: 07/18/2017 1435
Date Received: 07/18/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010D	1	07/29/2017 0333	DDD	07/19/2017 1631	46954

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	7440-39-3	6010D	0.11		0.025	mg/L	1
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	ND		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	1
Nickel	7440-02-0	6010D	ND		0.040	mg/L	1
Zinc	7440-66-6	6010D	ND		0.020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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CVAA

Client: Smith Gardner, Inc.
Laboratory ID: SG18071-012
Description: MW071T
Matrix: Aqueous
Date Sampled: 07/18/2017 1435
Date Received: 07/18/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	07/20/2017 0003	SLS	07/19/2017 1937	46991

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury	7439-97-6	7470A	ND		0.00020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG18071-013
Description: Field Blank
Matrix: Aqueous
Date Sampled: 07/18/2017 1225
Date Received: 07/18/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/19/2017 2133	ECP		46996

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		97	70-130
Bromofluorobenzene		102	70-130
Toluene-d8		105	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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QC Summary

Inorganic non-metals - MB

Sample ID: SQ47342-001
Batch: 47342
Analytical Method: SM 2540C-2011

Matrix: Aqueous

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
TDS	ND		1	10	mg/L	07/24/2017 1754

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - LCS

Sample ID: SQ47342-002
Batch: 47342
Analytical Method: SM 2540C-2011

Matrix: Aqueous

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
TDS	1500	1500		1	98	90-110	07/24/2017 1754

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - MB

Sample ID: SQ47389-001
Batch: 47389
Analytical Method: SM 2540C-2011

Matrix: Aqueous

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
TDS	ND		1	10	mg/L	07/25/2017 1210

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - LCS

Sample ID: SQ47389-002
Batch: 47389
Analytical Method: SM 2540C-2011

Matrix: Aqueous

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
TDS	1500	1400		1	97	90-110	07/25/2017 1210

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - Duplicate

Sample ID: SG18071-008DU
Matrix: Aqueous
Batch: 47389
Analytical Method: SM 2540C-2011

Parameter	Sample Amount (mg/L)	Result (mg/L)	Q	Dil	% RPD	% RPD Limit	Analysis Date
TDS	100	150	+	1	38	20	07/25/2017 1210

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ
N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - Duplicate

Sample ID: SG18071-012DU
Batch: 47389
Analytical Method: SM 2540C-2011

Matrix: Aqueous

Parameter	Sample Amount (mg/L)	Result (mg/L)	Q	Dil	% RPD	% RPD Limit	Analysis Date
TDS	150	150		1	0.66	20	07/25/2017 1210

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - MB

Sample ID: SQ47793-001
Batch: 47793
Analytical Method: 300.0

Matrix: Aqueous

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
Chloride	ND		1	2.0	mg/L	07/27/2017 1317

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - LCS

Sample ID: SQ47793-002
Batch: 47793
Analytical Method: 300.0

Matrix: Aqueous

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Chloride	20	20		1	98	90-110	07/27/2017 1341

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - MS

Sample ID: SG18071-003MS
Batch: 47793
Analytical Method: 300.0
Matrix: Aqueous

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Chloride	ND	20	21		1	105	90-110	07/27/2017 2142

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ
N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - MSD

Sample ID: SG18071-003MD
Batch: 47793
Analytical Method: 300.0
Matrix: Aqueous

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Chloride	ND	20	20		1	102	3.1	90-110	20	07/27/2017 2206

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ
N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - MB

Sample ID: SQ48122-001
Batch: 48122
Analytical Method: 300.0
Matrix: Aqueous

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
Chloride	ND		1	2.0	mg/L	07/31/2017 1806

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ
N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - LCS

Sample ID: SQ48122-002
Batch: 48122
Analytical Method: 300.0

Matrix: Aqueous

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Chloride	20	20		1	99	90-110	07/31/2017 1830

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - MB

Sample ID: SQ46969-001
Batch: 46969
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
Acrolein	ND		1	20	ug/L	07/19/2017 1535
Acrylonitrile	ND		1	20	ug/L	07/19/2017 1535
Benzene	ND		1	5.0	ug/L	07/19/2017 1535
Bromodichloromethane	ND		1	5.0	ug/L	07/19/2017 1535
Bromoform	ND		1	5.0	ug/L	07/19/2017 1535
Bromomethane (Methyl bromide)	ND		1	10	ug/L	07/19/2017 1535
Carbon tetrachloride	ND		1	5.0	ug/L	07/19/2017 1535
Chlorobenzene	ND		1	5.0	ug/L	07/19/2017 1535
Chloroethane	ND		1	10	ug/L	07/19/2017 1535
2-Chloroethylvinylether	ND		1	10	ug/L	07/19/2017 1535
Chloroform	ND		1	5.0	ug/L	07/19/2017 1535
Chloromethane (Methyl chloride)	ND		1	10	ug/L	07/19/2017 1535
Dibromochloromethane	ND		1	10	ug/L	07/19/2017 1535
1,1-Dichloroethane	ND		1	5.0	ug/L	07/19/2017 1535
1,2-Dichloroethane	ND		1	5.0	ug/L	07/19/2017 1535
1,1-Dichloroethene	ND		1	5.0	ug/L	07/19/2017 1535
cis-1,2-Dichloroethene	ND		1	5.0	ug/L	07/19/2017 1535
trans-1,2-Dichloroethene	ND		1	5.0	ug/L	07/19/2017 1535
1,2-Dichloropropane	ND		1	5.0	ug/L	07/19/2017 1535
cis-1,3-Dichloropropene	ND		1	5.0	ug/L	07/19/2017 1535
trans-1,3-Dichloropropene	ND		1	5.0	ug/L	07/19/2017 1535
Ethylbenzene	ND		1	5.0	ug/L	07/19/2017 1535
Methylene chloride	ND		1	5.0	ug/L	07/19/2017 1535
1,1,2,2-Tetrachloroethane	ND		1	5.0	ug/L	07/19/2017 1535
Tetrachloroethene	ND		1	5.0	ug/L	07/19/2017 1535
Toluene	ND		1	5.0	ug/L	07/19/2017 1535
1,1,1-Trichloroethane	ND		1	5.0	ug/L	07/19/2017 1535
1,1,2-Trichloroethane	ND		1	5.0	ug/L	07/19/2017 1535
Trichloroethene	ND		1	5.0	ug/L	07/19/2017 1535
Vinyl chloride	ND		1	2.0	ug/L	07/19/2017 1535

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		96	70-130
Bromofluorobenzene		98	70-130
Toluene-d8		99	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - LCS

Sample ID: SQ46969-002
Batch: 46969
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acrolein	500	460		1	92	60-140	07/19/2017 1434
Acrylonitrile	100	92		1	92	70-130	07/19/2017 1434
Benzene	50	49		1	99	70-130	07/19/2017 1434
Bromodichloromethane	50	50		1	101	70-130	07/19/2017 1434
Bromoform	50	51		1	103	70-130	07/19/2017 1434
Bromomethane (Methyl bromide)	50	51		1	101	70-130	07/19/2017 1434
Carbon tetrachloride	50	51		1	103	70-130	07/19/2017 1434
Chlorobenzene	50	51		1	103	70-130	07/19/2017 1434
Chloroethane	50	52		1	103	70-130	07/19/2017 1434
Chloroform	50	49		1	98	70-130	07/19/2017 1434
Chloromethane (Methyl chloride)	50	52		1	104	60-140	07/19/2017 1434
Dibromochloromethane	50	51		1	103	70-130	07/19/2017 1434
1,1-Dichloroethane	50	48		1	96	70-130	07/19/2017 1434
1,2-Dichloroethane	50	47		1	95	70-130	07/19/2017 1434
1,1-Dichloroethene	50	49		1	97	70-130	07/19/2017 1434
cis-1,2-Dichloroethene	50	49		1	98	70-130	07/19/2017 1434
trans-1,2-Dichloroethene	50	49		1	98	70-130	07/19/2017 1434
1,2-Dichloropropane	50	50		1	101	70-130	07/19/2017 1434
cis-1,3-Dichloropropene	50	52		1	104	70-130	07/19/2017 1434
trans-1,3-Dichloropropene	50	50		1	100	70-130	07/19/2017 1434
Ethylbenzene	50	50		1	101	70-130	07/19/2017 1434
Methylene chloride	50	45		1	90	70-130	07/19/2017 1434
1,1,2,2-Tetrachloroethane	50	50		1	100	70-130	07/19/2017 1434
Tetrachloroethene	50	52		1	104	70-130	07/19/2017 1434
Toluene	50	51		1	103	70-130	07/19/2017 1434
1,1,1-Trichloroethane	50	51		1	101	70-130	07/19/2017 1434
1,1,2-Trichloroethane	50	48		1	95	70-130	07/19/2017 1434
Trichloroethene	50	52		1	103	70-130	07/19/2017 1434
Vinyl chloride	50	52		1	105	70-130	07/19/2017 1434

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		93	70-130
Bromofluorobenzene		101	70-130
Toluene-d8		100	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - MB

Sample ID: SQ46996-001
Batch: 46996
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
Acrolein	ND		1	20	ug/L	07/19/2017 2047
Acrylonitrile	ND		1	20	ug/L	07/19/2017 2047
Benzene	ND		1	5.0	ug/L	07/19/2017 2047
Bromodichloromethane	ND		1	5.0	ug/L	07/19/2017 2047
Bromoform	ND		1	5.0	ug/L	07/19/2017 2047
Bromomethane (Methyl bromide)	ND		1	10	ug/L	07/19/2017 2047
Carbon tetrachloride	ND		1	5.0	ug/L	07/19/2017 2047
Chlorobenzene	ND		1	5.0	ug/L	07/19/2017 2047
Chloroethane	ND		1	10	ug/L	07/19/2017 2047
2-Chloroethylvinylether	ND		1	10	ug/L	07/19/2017 2047
Chloroform	ND		1	5.0	ug/L	07/19/2017 2047
Chloromethane (Methyl chloride)	ND		1	10	ug/L	07/19/2017 2047
Dibromochloromethane	ND		1	10	ug/L	07/19/2017 2047
1,1-Dichloroethane	ND		1	5.0	ug/L	07/19/2017 2047
1,2-Dichloroethane	ND		1	5.0	ug/L	07/19/2017 2047
1,1-Dichloroethene	ND		1	5.0	ug/L	07/19/2017 2047
cis-1,2-Dichloroethene	ND		1	5.0	ug/L	07/19/2017 2047
trans-1,2-Dichloroethene	ND		1	5.0	ug/L	07/19/2017 2047
1,2-Dichloropropane	ND		1	5.0	ug/L	07/19/2017 2047
cis-1,3-Dichloropropene	ND		1	5.0	ug/L	07/19/2017 2047
trans-1,3-Dichloropropene	ND		1	5.0	ug/L	07/19/2017 2047
Ethylbenzene	ND		1	5.0	ug/L	07/19/2017 2047
Methylene chloride	ND		1	5.0	ug/L	07/19/2017 2047
1,1,2,2-Tetrachloroethane	ND		1	5.0	ug/L	07/19/2017 2047
Tetrachloroethene	ND		1	5.0	ug/L	07/19/2017 2047
Toluene	ND		1	5.0	ug/L	07/19/2017 2047
1,1,1-Trichloroethane	ND		1	5.0	ug/L	07/19/2017 2047
1,1,2-Trichloroethane	ND		1	5.0	ug/L	07/19/2017 2047
Trichloroethene	ND		1	5.0	ug/L	07/19/2017 2047
Vinyl chloride	ND		1	2.0	ug/L	07/19/2017 2047

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		91	70-130
Bromofluorobenzene		100	70-130
Toluene-d8		101	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - LCS

Sample ID: SQ46996-002
Batch: 46996
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acrolein	500	580		1	117	60-140	07/19/2017 1948
Acrylonitrile	100	84		1	84	70-130	07/19/2017 1948
Benzene	50	48		1	96	70-130	07/19/2017 1948
Bromodichloromethane	50	47		1	94	70-130	07/19/2017 1948
Bromoform	50	49		1	98	70-130	07/19/2017 1948
Bromomethane (Methyl bromide)	50	44		1	88	70-130	07/19/2017 1948
Carbon tetrachloride	50	46		1	91	70-130	07/19/2017 1948
Chlorobenzene	50	49		1	98	70-130	07/19/2017 1948
Chloroethane	50	48		1	97	70-130	07/19/2017 1948
Chloroform	50	47		1	94	70-130	07/19/2017 1948
Chloromethane (Methyl chloride)	50	45		1	90	60-140	07/19/2017 1948
Dibromochloromethane	50	49		1	98	70-130	07/19/2017 1948
1,1-Dichloroethane	50	45		1	90	70-130	07/19/2017 1948
1,2-Dichloroethane	50	48		1	95	70-130	07/19/2017 1948
1,1-Dichloroethene	50	45		1	90	70-130	07/19/2017 1948
cis-1,2-Dichloroethene	50	45		1	90	70-130	07/19/2017 1948
trans-1,2-Dichloroethene	50	46		1	93	70-130	07/19/2017 1948
1,2-Dichloropropane	50	47		1	95	70-130	07/19/2017 1948
cis-1,3-Dichloropropene	50	50		1	100	70-130	07/19/2017 1948
trans-1,3-Dichloropropene	50	49		1	99	70-130	07/19/2017 1948
Ethylbenzene	50	50		1	100	70-130	07/19/2017 1948
Methylene chloride	50	43		1	86	70-130	07/19/2017 1948
1,1,2,2-Tetrachloroethane	50	48		1	95	70-130	07/19/2017 1948
Tetrachloroethene	50	52		1	104	70-130	07/19/2017 1948
Toluene	50	50		1	101	70-130	07/19/2017 1948
1,1,1-Trichloroethane	50	47		1	95	70-130	07/19/2017 1948
1,1,2-Trichloroethane	50	47		1	94	70-130	07/19/2017 1948
Trichloroethene	50	46		1	92	70-130	07/19/2017 1948
Vinyl chloride	50	45		1	89	70-130	07/19/2017 1948

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		94	70-130
Bromofluorobenzene		103	70-130
Toluene-d8		105	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution) - MB

Sample ID: SQ47411-001
Batch: 47411
Analytical Method: 8260B (SIM iso.)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
1,4-Dioxane	ND		1	3.0	ug/L	07/25/2017 1118

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		93	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution) - LCS

Sample ID: SQ47411-002
Batch: 47411
Analytical Method: 8260B (SIM iso.)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,4-Dioxane	50	44		1	88	70-130	07/25/2017 1030

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		96	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution) - LCSD

Sample ID: SQ47411-003
Batch: 47411
Analytical Method: 8260B (SIM iso.)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
1,4-Dioxane	50	44		1	88	0.027	70-130	20	07/25/2017 1054

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		93	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution) - MB

Sample ID: SQ47490-001
Batch: 47490
Analytical Method: 8260B (SIM iso.)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
1,4-Dioxane	ND		1	3.0	ug/L	07/25/2017 2154

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		96	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution) - LCS

Sample ID: SQ47490-002
Batch: 47490
Analytical Method: 8260B (SIM iso.)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,4-Dioxane	50	42		1	85	70-130	07/25/2017 2106

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		94	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution) - LCSD

Sample ID: SQ47490-003
Batch: 47490
Analytical Method: 8260B (SIM iso.)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
1,4-Dioxane	50	42		1	85	0.32	70-130	20	07/25/2017 2130

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		95	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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ICP-AES Metals - MB

Sample ID: SQ46954-001
Batch: 46954
Analytical Method: 6010D

Matrix: Aqueous
Prep Method: 3005A
Prep Date: 07/19/2017 1631

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
Arsenic	ND		1	0.015	mg/L	07/29/2017 0200
Barium	ND		1	0.025	mg/L	07/29/2017 0200
Cadmium	ND		1	0.0050	mg/L	07/29/2017 0200
Chromium	ND		1	0.010	mg/L	07/29/2017 0200
Lead	ND		1	0.010	mg/L	07/29/2017 0200
Nickel	ND		1	0.040	mg/L	07/29/2017 0200
Zinc	ND		1	0.020	mg/L	07/29/2017 0200

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.
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ICP-AES Metals - LCS

Sample ID: SQ46954-002
Batch: 46954
Analytical Method: 6010D

Matrix: Aqueous
Prep Method: 3005A
Prep Date: 07/19/2017 1631

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Arsenic	0.40	0.43		1	107	80-120	07/29/2017 0204
Barium	2.0	2.1		1	105	80-120	07/29/2017 0204
Cadmium	0.40	0.41		1	102	80-120	07/29/2017 0204
Chromium	2.0	2.0		1	100	80-120	07/29/2017 0204
Lead	0.40	0.41		1	102	80-120	07/29/2017 0204
Nickel	2.0	2.1		1	106	80-120	07/29/2017 0204
Zinc	2.0	2.0		1	101	80-120	07/29/2017 0204

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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ICP-AES Metals - MS

Sample ID: SG18071-001MS
Batch: 46954
Analytical Method: 6010D

Matrix: Aqueous
Prep Method: 3005A
Prep Date: 07/19/2017 1631

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Arsenic	ND	0.40	0.43		1	108	75-125	07/29/2017 0222
Barium	0.10	2.0	2.2		1	105	75-125	07/29/2017 0222
Cadmium	ND	0.40	0.41		1	104	75-125	07/29/2017 0222
Chromium	ND	2.0	2.1		1	103	75-125	07/29/2017 0222
Lead	ND	0.40	0.41		1	103	75-125	07/29/2017 0222
Nickel	ND	2.0	2.1		1	106	75-125	07/29/2017 0222
Zinc	ND	2.0	2.0		1	102	75-125	07/29/2017 0222

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.
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ICP-AES Metals - MSD

Sample ID: SG18071-001MD
Batch: 46954
Analytical Method: 6010D

Matrix: Aqueous
Prep Method: 3005A
Prep Date: 07/19/2017 1631

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Arsenic	ND	0.40	0.43		1	109	0.65	75-125	20	07/29/2017 0226
Barium	0.10	2.0	2.2		1	106	1.1	75-125	20	07/29/2017 0226
Cadmium	ND	0.40	0.41		1	104	0.097	75-125	20	07/29/2017 0226
Chromium	ND	2.0	2.1		1	103	0.58	75-125	20	07/29/2017 0226
Lead	ND	0.40	0.42		1	104	0.51	75-125	20	07/29/2017 0226
Nickel	ND	2.0	2.1		1	107	0.25	75-125	20	07/29/2017 0226
Zinc	ND	2.0	2.0		1	102	0.14	75-125	20	07/29/2017 0226

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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CVAA - MB

Sample ID: SQ46991-001
Batch: 46991
Analytical Method: 7470A

Matrix: Aqueous
Prep Method: 7470A
Prep Date: 07/19/2017 1937

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
Mercury	ND		1	0.00020	mg/L	07/20/2017 0013

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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CVAA - LCS

Sample ID: SQ46991-002
Batch: 46991
Analytical Method: 7470A

Matrix: Aqueous
Prep Method: 7470A
Prep Date: 07/19/2017 1937

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Mercury	0.0020	0.0020		1	100	80-120	07/20/2017 0017

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

CVAA - MS

Sample ID: SG18071-002MS
Batch: 46991
Analytical Method: 7470A

Matrix: Aqueous
Prep Method: 7470A
Prep Date: 07/19/2017 1937

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Mercury	ND	0.0020	0.0019		1	96	85-115	07/20/2017 0024

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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CVAA - MSD

Sample ID: SG18071-002MD
Batch: 46991
Analytical Method: 7470A

Matrix: Aqueous
Prep Method: 7470A
Prep Date: 07/19/2017 1937

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Mercury	ND	0.0020	0.0018		1	92	4.3	85-115	20	07/20/2017 0027

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Chain of Custody
and
Miscellaneous Documents

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West Columbia, South Carolina 29172
Telephone No. (803) 791-9700 Fax No. (803) 791-9111
www.shealylab.com

Chain of Custody Record

Number

Client	Report to Contact	Telephone No. / Fax No. / Email	Quote No.
Smith Gardner	Kevin Anderson	919-828-0577	15127
Address: 14 North Bolyan Ave	Sampler's Signature: x Brit Ransom	Waybill No.	Page 1 of 2
City: Raleigh / State: NC / Zip Code: 27603	Printed Name: Brit Ransom		
Project Name: Pinewood Detection Monitoring (GW)			
Project Number: DM	P.O Number		

Analysis (Attach list if more space is needed)

SG18071

Sample ID / Description (Containers for each sample may be combined on one line)	2017 Date	Time	G=Grab C=Composite	Matrix: Aqueous	Solid	Non-Aq.	No. of Containers by Preservation Type: Unpres.	H2SO4	HNO3	HCL	NaOH	5035 kit	NaOH+Zn	VOC	1,4-Dioxane SIM	Metals - Hg - As,Ba,Cd,Cr,Pb,Ni,Z	Chloride/TDS
PSDL021	7/18	1215	G	X			2		1	6				✓	✓	✓	✓
MW041T	7/18	1405	G	X										✓	✓	✓	✓
MW042TR	7/18	1415	G	X										✓	✓	✓	✓
SL001	7/18	1325	G	X										✓	✓	✓	✓
SL002	7/18	1300	G	X										✓	✓	✓	✓
MW045T	7/18	1320	G	X										✓	✓	✓	✓
UBC010	7/18	1340	G	X										✓	✓	✓	✓
UBC053	7/18	1345	G	X										✓	✓	✓	✓
UBC011	7/18	1355	G	X										✓	✓	✓	✓
SL003	7/18	1310	G	X			X		X	X				✓	✓	✓	

Possible Hazard Identification: [X] Non-Hazard [ ] Flammable [ ] Skin Irritant [ ] Poison [ ] Unknown

Sample Disposal: [ ] Return to Client [X] Disposal by Lab

Note: All samples are retained for six weeks from receipt unless other arrangements are made

Turn Around Time Required (Prior lab approval required for expedited TAT): [X] Standard [ ] Rush (Please Specify)

QC Requirements (Please Specify)

	Date	Time		Date	Time
1. Relinquished by: Brit Ransom	7/18/17	1509	1. Received by:	7/18/17	1509
2. Relinquished by	Date	Time	2. Received by	Date	Time
3. Relinquished by	7/18/17	1760	3. Laboratory Received by: Evan Cole	7.18.17	1700

Comments

LAB USE ONLY
Received on Ice (Check) [X] Y [ ] N [ ] Ice Pack
Receipt Temp. 3.1 °C

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West Columbia, South Carolina 29172
Telephone No. (803) 791-9700 Fax No. (803) 791-9111
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Chain of Custody Record

Number

Client: Smith Gardner	Report to Contact: Kevin Anderson	Telephone No. / Fax No. / Email: 919-828-0577	Quote No.: 15127
Address: 14 North Bolyan Ave	Sampler's Signature: x Brit Ransom	Waybill No.	Page: 2 of 2
City: Raleigh / State: NC / Zip Code: 27603	Printed Name: Brit Ransom		
Project Name: Pinewood Detection Monitoring (GW)			
Project Number	P.O Number		

Analysis (Attach list if more space is needed)

SG18071

Sample ID / Description (Containers for each sample may be combined on one line)	2017 Date	Time	G=Grab C=Composite	Matrix: Aqueous	Solid	Non-Aq.	No. of Containers by Preservation Type: Unpres.	H2SO4	HNO3	HCl	NaOH	5035 kit	NaS2O3+HCl	VOC	1,4-Dioxane SIM	Metals + Hg - As,Ba,Cd,Cr,Pb,Ni,Z	Chloride/TDS
MW 043T	7/18	1425	G	X			2		1	6				✓	✓	✓	✓
MW 071T	7/18	1435	G	X			2		1	6				✓	✓	✓	✓
Field Blank	7/18	1225	G	X			1			3				✓			

Possible Hazard Identification: [X] Non-Hazard [ ] Flammable [ ] Skin Irritant [ ] Poison [ ] Unknown

Sample Disposal: [ ] Return to Client [X] Disposal by Lab

Note: All samples are retained for six weeks from receipt unless other arrangements are made

Turn Around Time Required (Prior lab approval required for expedited TAT): [X] Standard [ ] Rush (Please Specify)

QC Requirements (Please Specify)

	Date	Time		Date	Time
1. Relinquished by: Brit Ransom	7/18/17	1509	1. Received by:	7/18/17	1509
2. Relinquished by	Date	Time	2. Received by	Date	Time
3. Relinquished by	Date 7/18/17	Time 1700	3. Laboratory Received by:	Date 7-18-17	Time 1706

Comments

LAB USE ONLY
Received on Ice (Check) [X] N [ ] Ice Pack

Receipt Temp. 3.1 °C

Document Number: F-AD-104 Effective Date 08-10-10

SHEALY ENVIRONMENTAL SERVICES, INC.

Shealy Environmental Services, Inc.
Document Number: MF0018C-08

Page 1 of 1
Effective Date: 03/07/2017
Expiry Date: 03/07/2022

Sample Receipt Checklist (SRC)

Client: Smith Gardner Cooler Inspected by/date: ELC 7-18-17 Lot #: SG18071

Means of receipt: ☑ SESI ☐ Client ☐ UPS ☐ FedEx ☐ Other_____			
Yes ☐	No ☑		1. Were custody seals present on the cooler?
Yes ☐	No ☐	NA ☑	2. If custody seals were present, were they intact and unbroken?
pH strip ID: 17-854 Cl strip ID:_____ Cooler ID/Original temperature upon receipt/Derived (corrected) temperature upon receipt: __/__/__°C 13.1/13.1°C __/__/__°C __/__/__°C Method: ☑ Temperature Blank ☐ Against Bottles IR Gun ID: G2 IR Gun Correction Factor: 6 °C Method of coolant: ☑ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ None			
Yes ☐	No ☐	NA ☑	3. If temperature of any cooler exceeded 6.0°C, was Project Manager Notified? PM was Notified by: phone / email / face-to-face (circle one).
Yes ☐	No ☐	NA ☑	4. Is the commercial courier's packing slip attached to this form?
Yes ☑	No ☐		5. Were proper custody procedures (relinquished/received) followed?
Yes ☑	No ☐		6. Were sample IDs listed on the COC?
Yes ☑	No ☐		7. Were sample IDs listed on all sample containers?
Yes ☑	No ☐		8. Was collection date & time listed on the COC?
Yes ☑	No ☐		9. Was collection date & time listed on all sample containers?
Yes ☑	No ☐		10. Did all container label information (ID, date, time) agree with the COC?
Yes ☑	No ☐		11. Were tests to be performed listed on the COC?
Yes ☑	No ☐		12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)?
Yes ☑	No ☐		13. Was adequate sample volume available?
Yes ☑	No ☐		14. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes ☐	No ☑		15. Were any samples containers missing/excess (circle one) samples Not listed on COC?
Yes ☑	No ☐	NA ☐	16. Were bubbles present >"pea-size" (¼"or 6mm in diameter) in any VOA vials?
Yes ☑	No ☐	NA ☐	17. Were all DRO/metals/nutrient samples received at a pH of < 2?
Yes ☐	No ☐	NA ☑	18. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9?
Yes ☐	No ☐	NA ☑	19. Were all applicable NH3/TKN/cyanide/phenol/BNA (< 0.5mg/L) samples free of residual chlorine?
Yes ☐	No ☐	NA ☑	20. Were collection temperatures documented on the COC for NC samples?
Yes ☐	No ☐	NA ☑	21. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc…) correctly transcribed from the COC into the comment section in LIMS?
Yes ☐	No ☑		22. Was the quote number used taken from the container label?
Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)			
Sample(s)_____ were received incorrectly preserved and were adjusted accordingly in sample receiving with_____ (H_2SO_4, HNO_3, HCl, NaOH) using SR #_____.			
Sample(s) 51001 (1) were received with bubbles >6 mm in diameter.			
Samples(s)_____ were received with TRC > 0.5 mg/L (If #21 is No) and were adjusted accordingly in sample receiving with sodium thiosulfate ($Na_2S_2O_3$) with Shealy ID:_____.			
SC Drinking Water Project Sample(s) pH verified to be < 2 by_____ Date:_____ Sample(s)_____ were Not received at a pH of < 2 and were adjusted accordingly using SR#_____			
Sample labels applied by: Franklin Verified by:_____ Date: 7-18-17			

Comments:_____

2"

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID PSDL 021 Sample Time 1215

Field Personnel CE, BR, FO Sample Date 7/18/17

Weather Conditions OVERCAST Air Temperature (°F) 80

Total Depth (ft.) 60 (from well log) 32.3

Depth to Static Water Surface (ft.) 37.70

Calculated Well Volume (1 casing volume) (gal.) 4

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 20

Measured Flow Rate (gal/min) 0.5

Calculated Pumping Time (length of time in minutes) 40

Actual Pumping Time (length of time in minutes) 25

Check-back Time 1115

Recovery Time (if needed) 24

pH Calibration During Purging (4.0 7.0 10) (circle two) Actual Reading 4.01/7.01 pH

pH Calibration During Sampling (4.0 7.0 10) (circle two) Actual Reading 4.01/7.01 pH 7/18/17 Date

Purge Start Time	1105		Purge Stop Time	1130			
Purge Date	7/17/17		Total Gallons Purged	4 (DRY)			
Purge Method	WW						

	Well Volume Units	Initial	1	2	3	4	5
Volume Purged	gal.	—			@ Sample		
Time	-	1105			1215		
Temperature	°C	20.9			22.0		
pH	Std. units	6.60			5.94		
Conductivity	µmhos/cm	120			120		
Turbidity	NTUs	—			8.74		

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☑ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☑
VOC	Yes ☑ No ☐	Cyanide (NaOH)	Yes ☐ No ☑
Metals (HNO_3)	Yes ☐ No ☑	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☑
Rinsate Blank	Yes ☐ No ☑	Field Blank	Yes ☑ No ☐
Metals verified (<2 pH)	Yes ☑ No ☐ (10% of samples verified per SAP)		

pH 2

FB @ 1225

4"

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID MW041T Sample Time 1405

Field Personnel CE, BE, FO Sample Date 7/18/17

Weather Conditions OVERCAST Air Temperature (°F) 80

Total Depth (ft.) 63 (from well log) 32.97

Depth to Static Water Surface (ft.) 40.03

Calculated Well Volume (1 casing volume) (gal.) 15

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 75

Measured Flow Rate (gal/min) 0.5

Calculated Pumping Time (length of time in minutes) 150

Actual Pumping Time (length of time in minutes) _____

Check-back Time 1205

Recovery Time (if needed) 24

pH Calibration During Purging (4, 7, 10) (circle two) Actual Reading 4.01 / 7.00 pH

pH Calibration During Sampling (4, 7, 10) (circle two) Actual Reading 4.01 / 7.00 pH 7/18/17 Date

Purge Start Time	1135	Purge Stop Time	1210
Purge Date	7/17/17	Total Gallons Purged	15 (DRY)
Purge Method	WW		

	Well Volume Units	Initial	1	2	3	4	5
Volume Purged	gal.	—			(D)SAMPLE		
Time	-	1135			1405		
Temperature	°C	21.7			27.7		
pH	Std. units	6.29			6.29		
Conductivity	µmhos/cm	120			110		
Turbidity	NTUs	—			4.76		

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☒ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☒
VOC	Yes ☒ No ☐	Cyanide (NaOH)	Yes ☐ No ☒
Metals (HNO_3)	Yes ☒ No ☐	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☒
Rinsate Blank	Yes ☐ No ☒	Field Blank	Yes ☐ No ☒
Metals verified (<2 pH)	Yes ☐ No ☒	(10% of samples verified per SAP)	

4

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID MW042TR Sample Time 1415

Field Personnel CE, BR, FO Sample Date 7/18/17

Weather Conditions OVERCAST Air Temperature (°F) 80

Total Depth (ft.) 59 (from well log) 20.72

Depth to Static Water Surface (ft.) 38.28

Calculated Well Volume (1 casing volume) (gal.) 14

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 70

Measured Flow Rate (gal/min) 0.5

Calculated Pumping Time (length of time in minutes) 140

Actual Pumping Time (length of time in minutes) 43

Check-back Time 1210

Recovery Time (if needed) 24

pH Calibration During Purging (4.0, 10) (circle two) Actual Reading 4.01/7.01 pH

pH Calibration During Sampling (4.0, 10) (circle two) Actual Reading 4.01/7.01 pH 7/18/17 Date

Purge Start Time	1140	Purge Stop Time	1223
Purge Date	7/17/17	Total Gallons Purged	14 (DRY)
Purge Method	WJ		

	Well Volume Units	Initial	1	2	3	4	5
Volume Purged	Gal.	—			@SAMPLE		
Time	-	1140			1415		
Temperature	°C	21.3			29.3		
pH	Std. units	6.16			6.11		
Conductivity	µmhos/cm	130			120		
Turbidity	NTUs	—			9.69		

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☒ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☒
VOC	Yes ☒ No ☐	Cyanide (NaOH)	Yes ☐ No ☒
Metals (HNO_3)	Yes ☒ No ☐	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☒
Rinsate Blank	Yes ☐ No ☒	Field Blank	Yes ☐ No ☒
Metals verified (<2 pH)	Yes ☐ No ☒	(10% of samples verified per SAP)	

2"

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID SL 001 Sample Time 1325

Field Personnel CC, BR, FO Sample Date 7/18/17

Weather Conditions OVERCAST Air Temperature (°F) 80

Total Depth (ft.) 45 (from well log) 14.34

Depth to Static Water Surface (ft.) 30.66

Calculated Well Volume (1 casing volume) (gal.) 3

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 15

Measured Flow Rate (gal/min) 0.5

Calculated Pumping Time (length of time in minutes) 30

Actual Pumping Time (length of time in minutes) 80

Check-back Time 1125

Recovery Time (if needed) 24

pH Calibration During Purging (4,7, 10) (circle two) Actual Reading 4.01/7.01 pH

pH Calibration During Sampling (4,7, 10) (circle two) Actual Reading 4.01/7.01 pH 7/18/17 Date

Purge Start Time	1120	Purge Stop Time	1240	
Purge Date	7/17/17	Total Gallons Purged	3 (dry)	
Purge Method	WW			

	Well Volume Units	Initial	1	2	3	4	5
Volume Purged	gal.	-			@Sample		
Time	-	1120			1325		
Temperature	°C	21.9			24.10		
pH	Std. units	6.43			6.03		
Conductivity	µmhos/cm	170			170		
Turbidity	NTUs	~			2.58		

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☑ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☑
VOC	Yes ☑ No ☐	Cyanide (NaOH)	Yes ☐ No ☑
Metals (HNO_3)	Yes ☐ No ☑	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☑
Rinsate Blank	Yes ☐ No ☑	Field Blank	Yes ☐ No ☑
Metals verified (<2 pH)	Yes ☑ No ☐	(10% of samples verified per SAP)	

pH 12

2

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID SL002 Sample Time 1300

Field Personnel CE, BA, FO Sample Date 7/18/17

Weather Conditions OVERCAST Air Temperature (°F) 80

Total Depth (ft.) 51 (from well log)

Depth to Static Water Surface (ft.) 27.42

23.58 x LWC

Calculated Well Volume (1 casing volume) (gal.) 4

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 20

Measured Flow Rate (gal/min) 0.5

Calculated Pumping Time (length of time in minutes) 40

Actual Pumping Time (length of time in minutes) _____

Check-back Time _____

Recovery Time (if needed) 24

pH Calibration During Purging (4) 7 10) (circle two) Actual Reading 4.01 / 7.00 pH

pH Calibration During Sampling (4) 7 10) (circle two) Actual Reading 4.01 / 7.01 pH 7/18/17 Date

Purge Start Time	1155	Purge Stop Time	1230
Purge Date	7/17/17	Total Gallons Purged	4 (x4)
Purge Method	WW		

	Well Volume Units	Initial	1	2	3	4	5
Volume Purged	gal.	—			@Sample		
Time	-	1155 ~~21.3~~			1300		
Temperature	°C	21.3			24.1		
pH	Std. units	6.01			6.45		
Conductivity	µmhos/cm	180			180		
Turbidity	NTUs	—			14.3		

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☒ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☒
VOC	Yes ☒ No ☐	Cyanide (NaOH)	Yes ☐ No ☒
Metals (HNO_3)	Yes ☒ No ☐	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☒
Rinsate Blank	Yes ☐ No ☒	Field Blank	Yes ☐ No ☒
Metals verified (<2 pH)	Yes ☐ No ☒	(10% of samples verified per SAP)	

4

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID MW 045 T Sample Time 1320

Field Personnel LE, BE, FO Sample Date 7/18/17

Weather Conditions OVERCAST Air Temperature (°F) 80

Total Depth (ft.) 49 (from well log) 24.5

Depth to Static Water Surface (ft.) 24.50

Calculated Well Volume (1 casing volume) (gal.) 16 ±

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 80

Measured Flow Rate (gal/min) 0.5

Calculated Pumping Time (length of time in minutes) 160

Actual Pumping Time (length of time in minutes) 65

Check-back Time 1115

Recovery Time (if needed) 24

pH Calibration During Purging (4) 7 10) (circle two) Actual Reading 4.01 / 7.01 pH

pH Calibration During Sampling (4) 7 10) (circle two) Actual Reading 4.01 / 7.01 pH 7/18/17 Date

Purge Start Time	1040	Purge Stop Time	1145
Purge Date	7/17/17	Total Gallons Purged	16 (DRY)
Purge Method	PWS		

	Well Volume Units	Initial	1	2	3	4	5
Volume Purged	gal.	—			@Sample		
Time	-	1040			1320		
Temperature	°C	21.0			25.8		
pH	Std. units	6.29			6.53		
Conductivity	µmhos/cm	160			170		
Turbidity	NTUs	—			9.18		

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☒ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☒
VOC	Yes ☒ No ☐	Cyanide (NaOH)	Yes ☐ No ☒
Metals (HNO_3)	Yes ☒ No ☐	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☒
Rinsate Blank	Yes ☐ No ☑	Field Blank	Yes ☐ No ☒
Metals verified (<2 pH)	Yes ☑ No ☐	(10% of samples verified per SAP)	

pH<2

4

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID UBC 010 Sample Time 1340

Field Personnel CE/BR/FO Sample Date 7/18/17

Weather Conditions Partly Cloudy Air Temperature (°F) 82

Total Depth (ft.) 111 (from well log) 59.78

Depth to Static Water Surface (ft.) 51.22

Calculated Well Volume (1 casing volume) (gal.) ~~8~~ 40

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 200

Measured Flow Rate (gal/min) 1.0

Calculated Pumping Time (length of time in minutes) 200

Actual Pumping Time (length of time in minutes) 233

Check-back Time 1023

Recovery Time (if needed) NA

pH Calibration During Purging (4, 7, 10) (circle two) Actual Reading 4.01/7.01 pH

pH Calibration During Sampling (4, 7, 10) (circle two) Actual Reading 4.01/7.01 pH 7/18/17 Date

Purge Start Time	0943	Purge Stop Time	1340
Purge Date	7/18/17	Total Gallons Purged	120
Purge Method	WW		

	Well Volume Units	Initial	1	2	3	4	5
Volume Purged	gal.	—	40	80	120		
Time	-	0943	1100	1245	1340		
Temperature	°C	22.9	22.2	21.6	20.9		
pH	Std. units	7.71	6.96	6.55	6.44		
Conductivity	µmhos/cm	110	110	110	120		
Turbidity	NTUs	—	—	—	1.39		

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☑ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☑
VOC	Yes ☑ No ☐	Cyanide (NaOH)	Yes ☐ No ☑
Metals (HNO_3)	Yes ☑ No ☐	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☑
Rinsate Blank	Yes ☐ No ☑	Field Blank	Yes ☐ No ☑
Metals verified (<2 pH)	Yes ☐ No ☑	(10% of samples verified per SAP)	

4

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID UBC053 Sample Time 1345

Field Personnel CC, BR, FO Sample Date 7/18/17

Weather Conditions PARTLY CLOUDY Air Temperature (°F) 90

Total Depth (ft.) 113 ~~51.73~~ (from well log) LWC 61.27

Depth to Static Water Surface (ft.) 51.73

Calculated Well Volume (1 casing volume) (gal.) 40

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 200

Measured Flow Rate (gal/min) 1.0

Calculated Pumping Time (length of time in minutes) 200

Actual Pumping Time (length of time in minutes) _____

Check-back Time ~~1030~~ 0

Recovery Time (if needed) _____

pH Calibration During Purging (4, 7, 10) (circle two) Actual Reading 4.01/7.01 pH

pH Calibration During Sampling (4, 7, 10) (circle two) Actual Reading 4.01/7.01 pH 7/18/17 Date

Purge Start Time	940	Purge Stop Time	1345
Purge Date	7.18.17	Total Gallons Purged	120
Purge Method	W W		

	Well Volume Units	Initial	1	2	3	4	5
Volume Purged	gal.	940	40	80	120		
Time	-	—	1105	1230	1345		
Temperature	°C	21.6	21.8	21.7	21.0		
pH	Std. units 6.98	~~7.16~~	6.77	6.59	6.58		
Conductivity	µmhos/cm	106	120	130	120		
Turbidity	NTUs	—	—	—	1.53		

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☒ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☒
VOC	Yes ☒ No ☐	Cyanide (NaOH)	Yes ☐ No ☒
Metals (HNO_3)	Yes ☒ No ☐	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☒
Rinsate Blank	Yes ☐ No ☒	Field Blank	Yes ☐ No ☒
Metals verified (<2 pH)	Yes ☐ No ☒	(10% of samples verified per SAP)	

4 11

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID UBC 011 Sample Time 1355

Field Personnel CE, BR, FO Sample Date 7/18/17

Weather Conditions PARTLY CLOUDY Air Temperature (°F) 80

Total Depth (ft.) 108 (from well log) 58.86

Depth to Static Water Surface (ft.) 49.14

Calculated Well Volume (1 casing volume) (gal.) 39

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 195

Measured Flow Rate (gal/min) 1.0

Calculated Pumping Time (length of time in minutes) 195

Actual Pumping Time (length of time in minutes) _____

Check-back Time 1040, 1050, 1110, 1230

Recovery Time (if needed) D

pH Calibration During Purging (4.0, 7.0, 10) (circle two) Actual Reading 4.01/7.01 pH

pH Calibration During Sampling (4.0, 7.0, 10) (circle two) Actual Reading 4.01/7.01 pH 7/18/17 Date

Purge Start Time	0930	Purge Stop Time	1355
Purge Date	7/18/17	Total Gallons Purged	117
Purge Method	WW		

	Well Volume Units	Initial	1	2	3	4	5
Volume Purged	gal.	—	39	78	117		
Time	-	930	1110	1245	1355		
Temperature	°C	21.7	21.8	22.5	21.4		
pH	Std. units	7.51	6.86	6.46	6.54		
Conductivity	µmhos/cm	100	110	110	110		
Turbidity	NTUs	—	—	—	1.33		

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☒ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☒
VOC	Yes ☒ No ☐	Cyanide (NaOH)	Yes ☐ No ☒
Metals (HNO_3)	Yes ☒ No ☐	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☒
Rinsate Blank	Yes ☐ No ☒	Field Blank	Yes ☐ No ☒
Metals verified (<2 pH)	Yes ☐ No ☒	(10% of samples verified per SAP)	

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID SL003 Sample Time 1310

Field Personnel CE, SR, FO Sample Date 7/18/17

Weather Conditions OVERCAST Air Temperature (°F) 80

Total Depth (ft.) 50 (from well log) 24.37

Depth to Static Water Surface (ft.) 25.63

Calculated Well Volume (1 casing volume) (gal.) 4

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 20

Measured Flow Rate (gal/min) 0.5

Calculated Pumping Time (length of time in minutes) 40

Actual Pumping Time (length of time in minutes) 15

Check-back Time 1245

Recovery Time (if needed) 24

pH Calibration During Purging (4.00, 7.00, 10) (circle two) Actual Reading 4.01 / 7.01 pH

pH Calibration During Sampling (4.00, 7.00, 10) (circle two) Actual Reading 4.01 / 7.01 pH 7/18/17 Date

Purge Start Time	1235	Purge Stop Time	1250	
Purge Date	7/17/17	Total Gallons Purged	4 (DRY)	
Purge Method	WM			

	Well Volume Units	Initial	1	2	3	4	5
Volume Purged	gal.	—			(2 Samples)		
Time	-	1235			1310		
Temperature	°C	21.0			23.8		
pH	Std. units	6.41			6.46		
Conductivity	µmhos/cm	130			140		
Turbidity	NTUs	—			3.72		

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☑ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☑
VOC	Yes ☑ No ☐	Cyanide (NaOH)	Yes ☐ No ☑
Metals (HNO_3)	Yes ☑ No ☐	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☑
Rinsate Blank	Yes ☐ No ☑	Field Blank	Yes ☐ No ☑
Metals verified (<2 pH)	Yes ☑ No ☐	(10% of samples verified per SAP)	

pH<2

4"

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID MW043T Sample Time 1425

Field Personnel CE, BR, FO Sample Date 7/18/17

Weather Conditions PARTLY CLOUDY Air Temperature (°F) 82

Total Depth (ft.) 48 (from well log) 18.34

Depth to Static Water Surface (ft.) 29.66

Calculated Well Volume (1 casing volume) (gal.) 12

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 60

Measured Flow Rate (gal/min) 0.5

Calculated Pumping Time (length of time in minutes) 120

Actual Pumping Time (length of time in minutes) 36

Check-back Time ~~1005~~ / 1030

Recovery Time (if needed) 6

pH Calibration During Purging (~~4.0~~, 10) (circle two) Actual Reading 4.01 / 7.01 pH

pH Calibration During Sampling (~~4.0~~, 10) (circle two) Actual Reading 4.01 / 7.01 pH 7/18/17 Date

Purge Start Time	0950	Purge Stop Time	1026	
Purge Date	7/18/17	Total Gallons Purged	12 (DRY)	
Purge Method	WM			

	Well Volume Units	Initial	1	2	3	4	5
Volume Purged	gal.	—			@ SAMPLE		
Time	-	0950			1425		
Temperature	°C	21.4			25.3		
pH	Std. units	5.81			6.26		
Conductivity	µmhos/cm	160			170		
Turbidity	NTUs	—			3.37		

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☑ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☑
VOC	Yes ☑ No ☐	Cyanide (NaOH)	Yes ☐ No ☑
Metals (HNO_3)	Yes ☑ No ☐	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☑
Rinsate Blank	Yes ☐ No ☑	Field Blank	Yes ☐ No ☑
Metals verified (<2 pH)	Yes ☐ No ☑	(10% of samples verified per SAP)	

4"

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID MW 071 T Sample Time 1435

Field Personnel CE/BR, FO Sample Date 7/18/17

Weather Conditions PARTLY CLOUDY Air Temperature (°F) 90

Total Depth (ft.) 75 (from well log) LWC 32.63

Depth to Static Water Surface (ft.) 42.37

Calculated Well Volume (1 casing volume) (gal.) 22

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 110

Measured Flow Rate (gal/min) 0.5

Calculated Pumping Time (length of time in minutes) 220

Actual Pumping Time (length of time in minutes) 60

Check-back Time 1130

Recovery Time (if needed) 0

pH Calibration During Purging (4, 7, 10) (circle two) Actual Reading 4.01/7.01 pH

pH Calibration During Sampling (4, 7, 10) (circle two) Actual Reading 4.01/7.01 pH 7/18/17 Date

Purge Start Time	1040	Purge Stop Time	1140
Purge Date	7/18/17	Total Gallons Purged	22
Purge Method	WW		

	Well Volume Units	Initial	1	2	3	4	5
Volume Purged	gal.	—			@ SAMPLE		
Time	-	1040			1435		
Temperature	°C	22.7			24.2		
pH	Std. units	6.02			6.26		
Conductivity	µmhos/cm	110			110		
Turbidity	NTUs	—			11.3		

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☒ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☒
VOC	Yes ☒ No ☐	Cyanide (NaOH)	Yes ☐ No ☒
Metals (HNO_3)	Yes ☒ No ☐	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☒
Rinsate Blank	Yes ☐ No ☒	Field Blank	Yes ☐ No ☒
Metals verified (<2 pH)	Yes ☐ No ☒	(10% of samples verified per SAP)	

SHEALY ENVIRONMENTAL SERVICES, INC.

Report of Analysis

Smith Gardner, Inc.
14 North Boylan Avenue
Raleigh, NC 27603
Attention: Kevin Anderson

Project Name: Pinewood LF GW (Detection Monitoring)

Lot Number:**SG19085**

Date Completed:08/02/2017

08/04/2017 8:10 AM
Approved and released by:
Project Manager: Kelly M. Nance

The electronic signature above is the equivalent of a handwritten signature.

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Case Narrative
Smith Gardner, Inc.
Lot Number: SG19085

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

Volatiles
The laboratory control sample (LCS) associated with batch 47048 had acrylonitrile recovered above the acceptance limits. This could potentially result in a high bias on analytical results. There were no detections for this compound in the samples associated with this batch; therefore, data quality is not impacted.

Sample Summary
Smith Gardner, Inc.
Lot Number: SG19085

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	UBC004	Aqueous	07/19/2017 1025	07/19/2017
002	UBC012	Aqueous	07/19/2017 1230	07/19/2017
003	UBC013	Aqueous	07/19/2017 1240	07/19/2017
004	UBC014	Aqueous	07/19/2017 1250	07/19/2017
005	MW073T	Aqueous	07/19/2017 1430	07/19/2017
006	Field Blank	Aqueous	07/19/2017 1425	07/19/2017
007	Trip	Aqueous	07/19/2017	07/19/2017

(7 samples)

Detection Summary

Smith Gardner, Inc.

Lot Number: SG19085

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	UBC004	Aqueous	Chloride	300.0	2.7		mg/L	5
001	UBC004	Aqueous	TDS	SM 2540C-	120		mg/L	5
001	UBC004	Aqueous	Arsenic	6010D	0.030		mg/L	8
001	UBC004	Aqueous	Barium	6010D	0.14		mg/L	8
002	UBC012	Aqueous	Chloride	300.0	2.6		mg/L	10
002	UBC012	Aqueous	TDS	SM 2540C-	120		mg/L	10
002	UBC012	Aqueous	Barium	6010D	0.070		mg/L	13
003	UBC013	Aqueous	Chloride	300.0	2.5		mg/L	15
003	UBC013	Aqueous	TDS	SM 2540C-	120		mg/L	15
003	UBC013	Aqueous	Barium	6010D	0.084		mg/L	18
004	UBC014	Aqueous	Chloride	300.0	2.7		mg/L	20
004	UBC014	Aqueous	TDS	SM 2540C-	98		mg/L	20
004	UBC014	Aqueous	Barium	6010D	0.067		mg/L	23
005	MW073T	Aqueous	Chloride	300.0	4.5		mg/L	25
005	MW073T	Aqueous	TDS	SM 2540C-	170		mg/L	25
005	MW073T	Aqueous	Barium	6010D	0.16		mg/L	28
005	MW073T	Aqueous	Zinc	6010D	0.032		mg/L	28

(17 detections)

Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SG19085-001
Description: UBC004
Matrix: Aqueous
Date Sampled: 07/19/2017 1025
Date Received: 07/19/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	07/19/2017 1025	CAE		
1		(Specific Con) 120.1	1	07/19/2017 1025	CAE		
1		(Temperature) SM 2550B-2010	1	07/19/2017 1025	CAE		
1		(Turbidity -) 180.1	1	07/19/2017 1025	CAE		
1		(Chloride) 300.0	1	07/31/2017 2318	TAF		48122
1		(TDS) SM 2540C-2011	1	07/25/2017 1210	MGM		47389

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	6.48			su	1
Specific Conductance - Field		120.1	110		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	21.8			° C	1
Turbidity - Field		180.1	1.7		1.0	NTU	1
Chloride		300.0	2.7		2.0	mg/L	1
TDS		SM 2540C-20	120		10	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SG19085-001
Description: UBC004
Matrix: Aqueous
Date Sampled: 07/19/2017 1025
Date Received: 07/19/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	07/26/2017 0005	JJG		47490

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		98	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
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N = Recovery is out of criteria
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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG19085-001
Description: UBC004
Matrix: Aqueous
Date Sampled: 07/19/2017 1025
Date Received: 07/19/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/20/2017 1316	BWS		47048

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		115	70-130
Bromofluorobenzene		115	70-130
Toluene-d8		114	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
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N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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ICP-AES Metals

Client: Smith Gardner, Inc.
Laboratory ID: SG19085-001
Description: UBC004
Matrix: Aqueous
Date Sampled: 07/19/2017 1025
Date Received: 07/19/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010D	1	07/30/2017 0207	DDD	07/20/2017 1725	47095

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Arsenic	7440-38-2	6010D	0.030		0.015	mg/L	1
Barium	7440-39-3	6010D	0.14		0.025	mg/L	1
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	ND		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	1
Nickel	7440-02-0	6010D	ND		0.040	mg/L	1
Zinc	7440-66-6	6010D	ND		0.020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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CVAA

Client: Smith Gardner, Inc.
Laboratory ID: SG19085-001
Description: UBC004
Matrix: Aqueous
Date Sampled: 07/19/2017 1025
Date Received: 07/19/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	07/27/2017 0225	SLS	07/26/2017 2004	47596

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury	7439-97-6	7470A	ND		0.00020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SG19085-002
Description: UBC012
Matrix: Aqueous
Date Sampled: 07/19/2017 1230
Date Received: 07/19/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	07/19/2017 1230	CAE		
1		(Specific Con) 120.1	1	07/19/2017 1230	CAE		
1		(Temperature) SM 2550B-2010	1	07/19/2017 1230	CAE		
1		(Turbidity -) 180.1	1	07/19/2017 1230	CAE		
1		(Chloride) 300.0	1	07/31/2017 2342	TAF		48122
1		(TDS) SM 2540C-2011	1	07/25/2017 1210	MGM		47389

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	6.39			su	1
Specific Conductance - Field		120.1	120		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	21.8			° C	1
Turbidity - Field		180.1	1.7		1.0	NTU	1
Chloride		300.0	2.6		2.0	mg/L	1
TDS		SM 2540C-20	120		10	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SG19085-002
Description: UBC012
Matrix: Aqueous
Date Sampled: 07/19/2017 1230
Date Received: 07/19/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	07/26/2017 0028	JJG		47490

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		98	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
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W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG19085-002
Description: UBC012
Matrix: Aqueous
Date Sampled: 07/19/2017 1230
Date Received: 07/19/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/20/2017 1339	BWS		47048

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		113	70-130
Bromofluorobenzene		111	70-130
Toluene-d8		112	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
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N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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ICP-AES Metals

Client: Smith Gardner, Inc.
Laboratory ID: SG19085-002
Description: UBC012
Matrix: Aqueous
Date Sampled: 07/19/2017 1230
Date Received: 07/19/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010D	1	07/30/2017 0211	DDD	07/20/2017 1725	47095

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	7440-39-3	6010D	0.070		0.025	mg/L	1
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	ND		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	1
Nickel	7440-02-0	6010D	ND		0.040	mg/L	1
Zinc	7440-66-6	6010D	ND		0.020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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CVAA

Client: Smith Gardner, Inc.
Laboratory ID: SG19085-002
Description: UBC012
Matrix: Aqueous
Date Sampled: 07/19/2017 1230
Date Received: 07/19/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	07/27/2017 0228	SLS	07/26/2017 2004	47596

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury	7439-97-6	7470A	ND		0.00020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SG19085-003
Description: UBC013
Matrix: Aqueous
Date Sampled: 07/19/2017 1240
Date Received: 07/19/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	07/19/2017 1240	CAE		
1		(Specific Con) 120.1	1	07/19/2017 1240	CAE		
1		(Temperature) SM 2550B-2010	1	07/19/2017 1240	CAE		
1		(Turbidity -) 180.1	1	07/19/2017 1240	CAE		
1		(Chloride) 300.0	1	08/01/2017 0006	TAF		48122
1		(TDS) SM 2540C-2011	1	07/25/2017 1210	MGM		47389

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	6.41			su	1
Specific Conductance - Field		120.1	120		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	21.7			° C	1
Turbidity - Field		180.1	2.0		1.0	NTU	1
Chloride		300.0	2.5		2.0	mg/L	1
TDS		SM 2540C-20	120		10	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SG19085-003
Description: UBC013
Matrix: Aqueous
Date Sampled: 07/19/2017 1240
Date Received: 07/19/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	07/26/2017 0052	JJG		47490

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		98	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG19085-003
Description: UBC013
Matrix: Aqueous
Date Sampled: 07/19/2017 1240
Date Received: 07/19/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/20/2017 1403	BWS		47048

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		113	70-130
Bromofluorobenzene		111	70-130
Toluene-d8		111	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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ICP-AES Metals

Client: Smith Gardner, Inc.
Laboratory ID: SG19085-003
Description: UBC013
Matrix: Aqueous
Date Sampled: 07/19/2017 1240
Date Received: 07/19/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010D	1	07/30/2017 0225	DDD	07/20/2017 1725	47095

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	7440-39-3	6010D	0.084		0.025	mg/L	1
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	ND		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	1
Nickel	7440-02-0	6010D	ND		0.040	mg/L	1
Zinc	7440-66-6	6010D	ND		0.020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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CVAA

Client: Smith Gardner, Inc.
Laboratory ID: SG19085-003
Description: UBC013
Matrix: Aqueous
Date Sampled: 07/19/2017 1240
Date Received: 07/19/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	07/27/2017 0230	SLS	07/26/2017 2004	47596

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury	7439-97-6	7470A	ND		0.00020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SG19085-004
Description: UBC014
Matrix: Aqueous
Date Sampled: 07/19/2017 1250
Date Received: 07/19/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	07/19/2017 1250	CAE		
1		(Specific Con) 120.1	1	07/19/2017 1250	CAE		
1		(Temperature) SM 2550B-2010	1	07/19/2017 1250	CAE		
1		(Turbidity -) 180.1	1	07/19/2017 1250	CAE		
1		(Chloride) 300.0	1	08/01/2017 0030	TAF		48122
1		(TDS) SM 2540C-2011	1	07/25/2017 1210	MGM		47389

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	6.21			su	1
Specific Conductance - Field		120.1	110		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	21.9			° C	1
Turbidity - Field		180.1	1.4		1.0	NTU	1
Chloride		300.0	2.7		2.0	mg/L	1
TDS		SM 2540C-20	98		10	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SG19085-004
Description: UBC014
Matrix: Aqueous
Date Sampled: 07/19/2017 1250
Date Received: 07/19/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	5030B	8260B (SIM iso.)	1	07/26/2017 1931	ECB		47558

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	2

Surrogate	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		100	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG19085-004
Description: UBC014
Matrix: Aqueous
Date Sampled: 07/19/2017 1250
Date Received: 07/19/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/20/2017 1426	BWS		47048

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		116	70-130
Bromofluorobenzene		116	70-130
Toluene-d8		116	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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ICP-AES Metals

Client: Smith Gardner, Inc.
Laboratory ID: SG19085-004
Description: UBC014
Matrix: Aqueous
Date Sampled: 07/19/2017 1250
Date Received: 07/19/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010D	1	07/30/2017 0230	DDD	07/20/2017 1725	47095

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	7440-39-3	6010D	0.067		0.025	mg/L	1
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	ND		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	1
Nickel	7440-02-0	6010D	ND		0.040	mg/L	1
Zinc	7440-66-6	6010D	ND		0.020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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CVAA

Client: Smith Gardner, Inc.
Laboratory ID: SG19085-004
Description: UBC014
Matrix: Aqueous
Date Sampled: 07/19/2017 1250
Date Received: 07/19/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	07/27/2017 0232	SLS	07/26/2017 2004	47596

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury	7439-97-6	7470A	ND		0.00020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SG19085-005
Description: MW073T
Matrix: Aqueous
Date Sampled: 07/19/2017 1430
Date Received: 07/19/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	07/19/2017 1430	CAE		
1		(Specific Con) 120.1	1	07/19/2017 1430	CAE		
1		(Temperature) SM 2550B-2010	1	07/19/2017 1430	CAE		
1		(Turbidity -) 180.1	1	07/19/2017 1430	CAE		
1		(Chloride) 300.0	1	08/01/2017 0054	TAF		48122
1		(TDS) SM 2540C-2011	1	07/25/2017 1210	MGM		47389

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	6.84			su	1
Specific Conductance - Field		120.1	140		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	25.3			° C	1
Turbidity - Field		180.1	24		1.0	NTU	1
Chloride		300.0	4.5		2.0	mg/L	1
TDS		SM 2540C-20	170		10	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SG19085-005
Description: MW073T
Matrix: Aqueous
Date Sampled: 07/19/2017 1430
Date Received: 07/19/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	07/26/2017 0140	JJG		47490

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		98	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG19085-005
Description: MW073T
Matrix: Aqueous
Date Sampled: 07/19/2017 1430
Date Received: 07/19/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/20/2017 1449	BWS		47048

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		115	70-130
Bromofluorobenzene		114	70-130
Toluene-d8		112	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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ICP-AES Metals

Client: Smith Gardner, Inc.
Laboratory ID: SG19085-005
Description: MW073T
Matrix: Aqueous
Date Sampled: 07/19/2017 1430
Date Received: 07/19/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010D	1	07/30/2017 0234	DDD	07/20/2017 1725	47095

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	7440-39-3	6010D	0.16		0.025	mg/L	1
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	ND		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	1
Nickel	7440-02-0	6010D	ND		0.040	mg/L	1
Zinc	7440-66-6	6010D	0.032		0.020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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CVAA

Client: Smith Gardner, Inc.
Laboratory ID: SG19085-005
Description: MW073T
Matrix: Aqueous
Date Sampled: 07/19/2017 1430
Date Received: 07/19/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	07/27/2017 0235	SLS	07/26/2017 2004	47596

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury	7439-97-6	7470A	ND		0.00020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG19085-006
Description: Field Blank
Matrix: Aqueous
Date Sampled: 07/19/2017 1425
Date Received: 07/19/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/20/2017 1228	BWS		47048

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		114	70-130
Bromofluorobenzene		108	70-130
Toluene-d8		110	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG19085-007
Description: Trip
Matrix: Aqueous
Date Sampled: 07/19/2017
Date Received: 07/19/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/20/2017 1252	BWS		47048

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		116	70-130
Bromofluorobenzene		115	70-130
Toluene-d8		114	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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QC Summary

Inorganic non-metals - MB

Sample ID: SQ47389-001
Batch: 47389
Analytical Method: SM 2540C-2011

Matrix: Aqueous

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
TDS	ND		1	10	mg/L	07/25/2017 1210

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - LCS

Sample ID: SQ47389-002
Batch: 47389
Analytical Method: SM 2540C-2011

Matrix: Aqueous

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
TDS	1500	1400		1	97	90-110	07/25/2017 1210

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - MB

Sample ID: SQ48122-001
Batch: 48122
Analytical Method: 300.0

Matrix: Aqueous

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
Chloride	ND		1	2.0	mg/L	07/31/2017 1806

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - LCS

Sample ID: SQ48122-002
Batch: 48122
Analytical Method: 300.0

Matrix: Aqueous

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Chloride	20	20		1	99	90-110	07/31/2017 1830

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - MB

Sample ID: SQ47048-001
Batch: 47048
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
Acrolein	ND		1	20	ug/L	07/20/2017 1150
Acrylonitrile	ND		1	20	ug/L	07/20/2017 1150
Benzene	ND		1	5.0	ug/L	07/20/2017 1150
Bromodichloromethane	ND		1	5.0	ug/L	07/20/2017 1150
Bromoform	ND		1	5.0	ug/L	07/20/2017 1150
Bromomethane (Methyl bromide)	ND		1	10	ug/L	07/20/2017 1150
Carbon tetrachloride	ND		1	5.0	ug/L	07/20/2017 1150
Chlorobenzene	ND		1	5.0	ug/L	07/20/2017 1150
Chloroethane	ND		1	10	ug/L	07/20/2017 1150
2-Chloroethylvinylether	ND		1	10	ug/L	07/20/2017 1150
Chloroform	ND		1	5.0	ug/L	07/20/2017 1150
Chloromethane (Methyl chloride)	ND		1	10	ug/L	07/20/2017 1150
Dibromochloromethane	ND		1	10	ug/L	07/20/2017 1150
1,1-Dichloroethane	ND		1	5.0	ug/L	07/20/2017 1150
1,2-Dichloroethane	ND		1	5.0	ug/L	07/20/2017 1150
1,1-Dichloroethene	ND		1	5.0	ug/L	07/20/2017 1150
cis-1,2-Dichloroethene	ND		1	5.0	ug/L	07/20/2017 1150
trans-1,2-Dichloroethene	ND		1	5.0	ug/L	07/20/2017 1150
1,2-Dichloropropane	ND		1	5.0	ug/L	07/20/2017 1150
cis-1,3-Dichloropropene	ND		1	5.0	ug/L	07/20/2017 1150
trans-1,3-Dichloropropene	ND		1	5.0	ug/L	07/20/2017 1150
Ethylbenzene	ND		1	5.0	ug/L	07/20/2017 1150
Methylene chloride	ND		1	5.0	ug/L	07/20/2017 1150
1,1,2,2-Tetrachloroethane	ND		1	5.0	ug/L	07/20/2017 1150
Tetrachloroethene	ND		1	5.0	ug/L	07/20/2017 1150
Toluene	ND		1	5.0	ug/L	07/20/2017 1150
1,1,1-Trichloroethane	ND		1	5.0	ug/L	07/20/2017 1150
1,1,2-Trichloroethane	ND		1	5.0	ug/L	07/20/2017 1150
Trichloroethene	ND		1	5.0	ug/L	07/20/2017 1150
Vinyl chloride	ND		1	2.0	ug/L	07/20/2017 1150

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		114	70-130
Bromofluorobenzene		114	70-130
Toluene-d8		112	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - LCS

Sample ID: SQ47048-002
Batch: 47048
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acrolein	200	270		1	137	60-140	07/20/2017 1055
Acrylonitrile	40	59	N	1	148	70-130	07/20/2017 1055
Benzene	20	21		1	104	70-130	07/20/2017 1055
Bromodichloromethane	20	21		1	104	70-130	07/20/2017 1055
Bromoform	20	21		1	106	70-130	07/20/2017 1055
Bromomethane (Methyl bromide)	20	22		1	110	70-130	07/20/2017 1055
Carbon tetrachloride	20	20		1	101	70-130	07/20/2017 1055
Chlorobenzene	20	21		1	104	70-130	07/20/2017 1055
Chloroethane	20	23		1	114	70-130	07/20/2017 1055
Chloroform	20	21		1	105	70-130	07/20/2017 1055
Chloromethane (Methyl chloride)	20	21		1	103	60-140	07/20/2017 1055
Dibromochloromethane	20	21		1	105	70-130	07/20/2017 1055
1,1-Dichloroethane	20	21		1	106	70-130	07/20/2017 1055
1,2-Dichloroethane	20	21		1	104	70-130	07/20/2017 1055
1,1-Dichloroethene	20	22		1	110	70-130	07/20/2017 1055
cis-1,2-Dichloroethene	20	21		1	105	70-130	07/20/2017 1055
trans-1,2-Dichloroethene	20	22		1	108	70-130	07/20/2017 1055
1,2-Dichloropropane	20	22		1	108	70-130	07/20/2017 1055
cis-1,3-Dichloropropene	20	23		1	113	70-130	07/20/2017 1055
trans-1,3-Dichloropropene	20	21		1	106	70-130	07/20/2017 1055
Ethylbenzene	20	21		1	106	70-130	07/20/2017 1055
Methylene chloride	20	19		1	95	70-130	07/20/2017 1055
1,1,2,2-Tetrachloroethane	20	22		1	109	70-130	07/20/2017 1055
Tetrachloroethene	20	21		1	106	70-130	07/20/2017 1055
Toluene	20	21		1	107	70-130	07/20/2017 1055
1,1,1-Trichloroethane	20	21		1	107	70-130	07/20/2017 1055
1,1,2-Trichloroethane	20	21		1	104	70-130	07/20/2017 1055
Trichloroethene	20	21		1	105	70-130	07/20/2017 1055
Vinyl chloride	20	23		1	113	70-130	07/20/2017 1055

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		110	70-130
Bromofluorobenzene		113	70-130
Toluene-d8		110	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution) - MB

Sample ID: SQ47490-001
Batch: 47490
Analytical Method: 8260B (SIM iso.)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
1,4-Dioxane	ND		1	3.0	ug/L	07/25/2017 2154

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		96	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution) - LCS

Sample ID: SQ47490-002
Batch: 47490
Analytical Method: 8260B (SIM iso.)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,4-Dioxane	50	42		1	85	70-130	07/25/2017 2106

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		94	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution) - LCSD

Sample ID: SQ47490-003
Batch: 47490
Analytical Method: 8260B (SIM iso.)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
1,4-Dioxane	50	42		1	85	0.32	70-130	20	07/25/2017 2130

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		95	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution) - MB

Sample ID: SQ47558-001
Batch: 47558
Analytical Method: 8260B (SIM iso.)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
1,4-Dioxane	ND		1	3.0	ug/L	07/26/2017 1336

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		98	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution) - LCS

Sample ID: SQ47558-002
Batch: 47558
Analytical Method: 8260B (SIM iso.)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,4-Dioxane	50	47		1	95	70-130	07/26/2017 1247

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		96	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution) - LCSD

Sample ID: SQ47558-003
Batch: 47558
Analytical Method: 8260B (SIM iso.)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
1,4-Dioxane	50	45		1	90	5.2	70-130	20	07/26/2017 1311

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		94	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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ICP-AES Metals - MB

Sample ID: SQ47095-001
Batch: 47095
Analytical Method: 6010D

Matrix: Aqueous
Prep Method: 3005A
Prep Date: 07/20/2017 1725

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
Arsenic	ND		1	0.015	mg/L	07/30/2017 0013
Barium	ND		1	0.025	mg/L	07/30/2017 0013
Cadmium	ND		1	0.0050	mg/L	07/30/2017 0013
Chromium	ND		1	0.010	mg/L	07/30/2017 0013
Lead	ND		1	0.010	mg/L	07/30/2017 0013
Nickel	ND		1	0.040	mg/L	07/30/2017 0013
Zinc	ND		1	0.020	mg/L	07/30/2017 0013

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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ICP-AES Metals - LCS

Sample ID: SQ47095-002
Batch: 47095
Analytical Method: 6010D

Matrix: Aqueous
Prep Method: 3005A
Prep Date: 07/20/2017 1725

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Arsenic	0.40	0.44		1	111	80-120	07/30/2017 0018
Barium	2.0	2.1		1	104	80-120	07/30/2017 0018
Cadmium	0.40	0.43		1	108	80-120	07/30/2017 0018
Chromium	2.0	2.1		1	103	80-120	07/30/2017 0018
Lead	0.40	0.44		1	109	80-120	07/30/2017 0018
Nickel	2.0	2.2		1	109	80-120	07/30/2017 0018
Zinc	2.0	2.2		1	108	80-120	07/30/2017 0018

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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CVAA - MB

Sample ID: SQ47596-001
Batch: 47596
Analytical Method: 7470A

Matrix: Aqueous
Prep Method: 7470A
Prep Date: 07/26/2017 2004

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
Mercury	ND		1	0.00020	mg/L	07/27/2017 0056

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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CVAA - LCS

Sample ID: SQ47596-002
Batch: 47596
Analytical Method: 7470A

Matrix: Aqueous
Prep Method: 7470A
Prep Date: 07/26/2017 2004

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Mercury	0.0020	0.0019		1	97	80-120	07/27/2017 0058

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Chain of Custody
and
Miscellaneous Documents

Shealy Environmental Services, Inc.
106 Vantage Point Drive
West Columbia, South Carolina 29172
Telephone No. (803) 791-9700 Fax No. (803) 791-9111
www.shealylab.com

Chain of Custody Record

Number

Client	Report to Contact	Telephone No. / Fax No. / Email	Quote No.
Smith Gardner	Kevin Anderson	919-828-0577	15127
Address: 14 North Bolyan Ave	Sampler's Signature: x Brit Ransom	Waybill No.	Page 1 of 1
City: Raleigh / State: NC / Zip Code: 27603	Printed Name: Brit Ransom		
Project Name: Pinewood Detection Monitoring (GW)			
Project Number	P.O Number		

Analysis (Attach list if more space is needed)

SG19085

Sample ID / Description (Containers for each sample may be combined on one line)	Date (2017)	Time	G=Grab C=Composite	Matrix: Aqueous	Solid	Non-Aq.	No. of Containers by Preservation Type: Unpres.	H2SO4	HNO3	HCL	NaOH	5035 kit	NaOH-Zn	VOC	1,4-Dioxane SIM	Metals + Hg - As,Ba,Cd,Cr,Pb,Ni,Z	Chloride/TDS
UBC 004	7/19	1025	G	X			2		1	6				✓	✓	✓	✓
UBC 012	7/19	1230					2		1	6				✓	✓	✓	✓
UBC 013	7/19	1240					2		1	6				✓	✓	✓	✓
UBC 014	7/19	1250					2		1	6				✓	✓	✓	✓
MW 073T	7/19	1430	✓				2		1	6				✓	✓	✓	✓
Field Blank	7/19	1425					1			3				✓			
Trip							2							✓			

Possible Hazard Identification: [X] Non-Hazard [ ] Flammable [ ] Skin Irritant [ ] Poison [ ] Unknown

Sample Disposal: [ ] Return to Client [X] Disposal by Lab

Note: All samples are retained for six weeks from receipt unless other arrangements are made

Turn Around Time Required (Prior lab approval required for expedited TAT): [X] Standard [ ] Rush (Please Specify)

QC Requirements (Please Specify)

	Date	Time		Date	Time
1. Relinquished by: Brit Ransom	7/19/17	1500	1. Received by:	7/19/17	1500
2. Relinquished by	Date	Time	2. Received by	Date	Time
3. Relinquished by	7/19/17	1705	3. Laboratory Received by: Erin Callahan	7.19.17	1705

Comments

LAB USE ONLY
Received on Ice (Check) [X] Y [ ] N [ ] Ice Pack
Receipt Temp. 4 °C

Document Number: F-AD-104 Effective Date 08-10-10

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SHEALY ENVIRONMENTAL SERVICES, INC.

Shealy Environmental Services, Inc.
Document Number: ME0018C-08

Page 1 of 1
Effective Date: 03/07/2017
Expiry Date: 03/07/2022

Sample Receipt Checklist (SRC)

Client: S & G Cooler Inspected by/date: ELC 7-19-17 Lot #: SG19085

Means of receipt: ☑ SESI ☐ Client ☐ UPS ☐ FedEx ☐ Other			
Yes ☐	No ☑		1. Were custody seals present on the cooler?
Yes ☐	No ☐	NA ☑	2. If custody seals were present, were they intact and unbroken?

pH strip ID: 17-854 Cl strip ID:

Cooler ID/Original temperature upon receipt/Derived (corrected) temperature upon receipt:

__/__/__°C __/4/4__°C __/__/__°C __/__/__°C

Method: ☑ Temperature Blank ☐ Against Bottles IR Gun ID: 6 IR Gun Correction Factor: 0 °C

Method of coolant: ☑ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ None

Yes ☐	No ☐	NA ☑	3. If temperature of any cooler exceeded 6.0°C, was Project Manager Notified? PM was Notified by: phone / email / face-to-face (circle one).
Yes ☐	No ☐	NA ☑	4. Is the commercial courier's packing slip attached to this form?
Yes ☑	No ☐		5. Were proper custody procedures (relinquished/received) followed?
Yes ☑	No ☐		6. Were sample IDs listed on the COC?
Yes ☑	No ☐		7. Were sample IDs listed on all sample containers?
Yes ☑	No ☐		8. Was collection date & time listed on the COC?
Yes ☑	No ☐		9. Was collection date & time listed on all sample containers?
Yes ☑	No ☐		10. Did all container label information (ID, date, time) agree with the COC?
Yes ☑	No ☐		11. Were tests to be performed listed on the COC?
Yes ☐	No ☑		12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)? Ber 6 HCl and 7 NP
Yes ☑	No ☐		13. Was adequate sample volume available?
Yes ☑	No ☐		14. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes ☐	No ☑		15. Were any samples containers missing/excess (circle one) samples Not listed on COC?
Yes ☑	No ☐	NA ☐	16. Were bubbles present >"pea-size" (¼" or 6mm in diameter) in any VOA vials?
Yes ☑	No ☐	NA ☐	17. Were all DRO/metals/nutrient samples received at a pH of < 2?
Yes ☐	No ☐	NA ☑	18. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9?
Yes ☐	No ☐	NA ☑	19. Were all applicable NH3/TKN/cyanide/phenol/BNA (< 0.5mg/L) samples free of residual chlorine?
Yes ☐	No ☐	NA ☑	20. Were collection temperatures documented on the COC for NC samples?
Yes ☐	No ☐	NA ☑	21. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc…) correctly transcribed from the COC into the comment section in LIMS?
Yes ☐	No ☑		22. Was the quote number used taken from the container label?

Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s) _____ were received incorrectly preserved and were adjusted accordingly in sample receiving with _____ (H_2SO_4, HNO_3, HCl, NaOH) using SR # _____.

Sample(s) UBC 004(1), UBC013(3)? were received with bubbles >6 mm in diameter.

Samples(s) _____ were received with TRC > 0.5 mg/L (If #21 is No) and were adjusted accordingly in sample receiving with sodium thiosulfate ($Na_2S_2O_3$) with Shealy ID: _____.

SC Drinking Water Project Sample(s) pH verified to be < 2 by _____ Date: _____

Sample(s) _____ were Not received at a pH of < 2 and were adjusted accordingly using SR# _____

Sample labels applied by: Evan Cuba Verified by: _____ Date: 7-19-17

Comments: _____

2"

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID UBC004 Sample Time 1025

Field Personnel CAE, FD, BP Sample Date 7/19/17

Weather Conditions Hot Air Temperature (°F) _____

Total Depth (ft.) 103 (from well log) 56.57

Depth to Static Water Surface (ft.) 46.43

Calculated Well Volume (1 casing volume) (gal.) 10

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 50

Measured Flow Rate (gal/min) 1.5

Calculated Pumping Time (length of time in minutes) 100

Actual Pumping Time (length of time in minutes) _____

Check-back Time 0855

Recovery Time (if needed) NA

pH Calibration During Purging (4, 7, 10) (circle two) Actual Reading 4.01 / 7.01 pH

pH Calibration During Sampling (4, 7, 10) (circle two) Actual Reading 4.01 / 7.01 pH 7/19/17 Date

Purge Start Time	0835	Purge Stop Time	1025
Purge Date	7/19/17	Total Gallons Purged	30
Purge Method	WW		

	Well Volume Units	Initial	1	2	3	4	5
Volume Purged	gal.	—	10	20	30		
Time	-	0835	0917	0942	1025		
Temperature	°C	20.3	20.2	21.2	21.8		
pH	Std. units	7.37	7.02	6.55	6.48		
Conductivity	µmhos/cm	110	120	110	110		
Turbidity	NTUs	—	—	—	1.74		

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☑ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☐
VOC	Yes ☑ No ☐	Cyanide (NaOH)	Yes ☐ No ☐
Metals (HNO_3)	Yes ☑ No ☐	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☐
Rinsate Blank	Yes ☐ No ☑	Field Blank	Yes ☐ No ☐
Metals verified (<2 pH)	Yes ☑ No ☐	(10% of samples verified per SAP)	

HCl

4

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID UBC012 Sample Time 1230

Field Personnel CAE, BR, FO Sample Date 7/19/17

Weather Conditions Hot Air Temperature (°F) 90

Total Depth (ft.) 95 (from well log) 47.92

Depth to Static Water Surface (ft.) 47.08

Calculated Well Volume (1 casing volume) (gal.) 32

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 160

Measured Flow Rate (gal/min) 1.0

Calculated Pumping Time (length of time in minutes) 160

Actual Pumping Time (length of time in minutes) _____

Check-back Time 0925

Recovery Time (if needed) NA

pH Calibration During Purging (4, 7, 10) (circle two) Actual Reading 4.01/7.01 pH

pH Calibration During Sampling (4, 7, 10) (circle two) Actual Reading 4.01/7.01 pH 7/19/17 Date

Purge Start Time	0855	Purge Stop Time	1230
Purge Date	7/19/17	Total Gallons Purged	96
Purge Method	WW		

	Well Volume Units	Initial	1	2	3	4	5
Volume Purged	gal.	—	32	64	96		
Time	-	0855	1005	1105	1230		
Temperature	°C	20.5	20.4	22.5	21.8		
pH	Std. units	8.29	6.65	6.53	6.39		
Conductivity	µmhos/cm	120	120	120	120		
Turbidity	NTUs	—	—	—	1167		

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☑ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☑
VOC	Yes ☑ No ☐	Cyanide (NaOH)	Yes ☐ No ☑
Metals (HNO_3)	Yes ☑ No ☐	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☑
Rinsate Blank	Yes ☐ No ☑	Field Blank	Yes ☐ No ☑
Metals verified (<2 pH)	Yes ☐ No ☑	(10% of samples verified per SAP)	

4'

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID VBC 013 Sample Time 1240

Field Personnel CAE, FP, BPM Sample Date 7/19/17

Weather Conditions Hot Air Temperature (°F) 96

Total Depth (ft.) 104 (from well log) 57.68

Depth to Static Water Surface (ft.) 46.32

Calculated Well Volume (1 casing volume) (gal.) 38

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 190

Measured Flow Rate (gal/min) .5

Calculated Pumping Time (length of time in minutes) 76

Actual Pumping Time (length of time in minutes) 76

Check-back Time 1050 1100 1240

Recovery Time (if needed) 0

pH Calibration During Purging (4, 7, 10) (circle two) Actual Reading 4.01/7.01 pH

pH Calibration During Sampling (4, 7, 10) (circle two) Actual Reading 4.01/7.01 pH 7/19/17 Date

Purge Start Time	0850		Purge Stop Time	1240			
Purge Date	7/19/17		Total Gallons Purged	114			
Purge Method	WW						

	Well Volume Units	Initial	1	2	3	4	5
Volume Purged	gal.	~~1000~~ 38		76	114		
Time	-	0850	1000	1110	1240		
Temperature	°C	20.4	20.8	22.4	25.7		
pH	Std. units	7.69	6.47	6.41	6.41		
Conductivity	µmhos/cm	120	100	120	120		
Turbidity	NTUs	—	—	—	202		

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☑ No ☐		Sulfide (Zn acetate and NaOH)	Yes ☐ No ☐	
VOC	Yes ☑ No ☐		Cyanide (NaOH)	Yes ☐ No ☐	
Metals (HNO_3)	Yes ☑ No ☐		Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☐	
Rinsate Blank	Yes ☐ No ☑		Field Blank	Yes ☐ No ☐	
Metals verified (<2 pH)	Yes ☐ No ☐	(10% of samples verified per SAP)			

11:12

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID UBC014 Sample Time 1250

Field Personnel CAE, FD, BR Sample Date 7/19/17

Weather Conditions Hot Air Temperature (°F) 96

Total Depth (ft.) 95 (from well log) 48.91

Depth to Static Water Surface (ft.) 46.09

Calculated Well Volume (1 casing volume) (gal.) 32

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 160

Measured Flow Rate (gal/min) .5

Calculated Pumping Time (length of time in minutes) 64

Actual Pumping Time (length of time in minutes) 110

Check-back Time 946 1024 1140 1820

Recovery Time (if needed) 0

pH Calibration During Purging (4, 7, 10) (circle two) Actual Reading 4.01 / 7.01 pH

pH Calibration During Sampling (4, 7, 10) (circle two) Actual Reading 4.01 / 7.01 pH 7/19/17 Date

Purge Start Time	0840	Purge Stop Time	1230	
Purge Date	7/19/17	Total Gallons Purged	96	
Purge Method	MW			

	Well Volume Units	Initial	1	2	3	4	5
Volume Purged	gal.	—	32	64	~~96~~	96	
Time	-	0840	0950	1115	~~1230~~	1250	
Temperature	°C	20.5	20.8	21.7	~~21.8~~	21.9	
pH	Std. units	6.56	6.40	6.28	~~6.39~~	6.21	
Conductivity	µmhos/cm	110	110	110	~~120~~	110	
Turbidity	NTUs	—	—	—	~~4.67~~	1.38	

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☐ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☐
VOC	Yes ☐ No ☐	Cyanide (NaOH)	Yes ☐ No ☐
Metals (HNO_3)	Yes ☑ No ☐	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☐
Rinsate Blank	Yes ☐ No ☑	Field Blank	Yes ☐ No ☐
Metals verified (<2 pH)	Yes ☑ No ☐	(10% of samples verified per SAP)	

pH 2

4 ʸ

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID MW073T Sample Time 1430

Field Personnel CAE, FO Sample Date 7/19/17

Weather Conditions Hot Air Temperature (°F) 90

Total Depth (ft.) 68 (from well log) 26.42

Depth to Static Water Surface (ft.) 41.58

Calculated Well Volume (1 casing volume) (gal.) 18

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 90

Measured Flow Rate (gal/min) .5

Calculated Pumping Time (length of time in minutes) 36

Actual Pumping Time (length of time in minutes) 90

Check-back Time ~~1426~~ ~~1436~~

Recovery Time (if needed) 4

pH Calibration During Purging (4, 7, 10) (circle two) Actual Reading 4.01 / 7.01 pH

pH Calibration During Sampling (4, 7, 10) (circle two) Actual Reading 4.01 / 7.01 pH _____ Date

Purge Start Time	~~1040~~ 1045	Purge Stop Time	1130
Purge Date	~~7/18/17~~ 7/19/17	Total Gallons Purged	18 (DRY)
Purge Method	MW MW		

	Well Volume Units	Initial	1 INITIAL	2	3	4	5
Volume Purged	gal.	—	—			@ SAMPLE	
Time	-	1040	@ 1045			1430	
Temperature	°C	27.7	23.1			25.3	
pH	Std. units	6.02	6.40			6.84	
Conductivity	µmhos/cm	110	130			140	
Turbidity	NTUs	—	—			24.0	

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☒ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☒
VOC	Yes ☒ No ☐	Cyanide (NaOH)	Yes ☐ No ☒
Metals (HNO_3)	Yes ☒ No ☐	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☒
Rinsate Blank	Yes ☐ No ☒	Field Blank	Yes ☒ No ☐
Metals verified (<2 pH)	Yes ☐ No ☒	(10% of samples verified per SAP)	

FB @ 1425

SHEALY ENVIRONMENTAL SERVICES, INC.

Report of Analysis

Smith Gardner, Inc.
14 North Boylan Avenue
Raleigh, NC 27603
Attention: Kevin Anderson

Project Name: Pinewood LF GW (Detection Monitoring)

Lot Number:**SG20065**

Date Completed:08/02/2017

08/02/2017 3:48 PM
Approved and released by:
Project Manager: Kelly M. Nance

The electronic signature above is the equivalent of a handwritten signature.

Shealy Environmental Services, Inc.
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Case Narrative
Smith Gardner, Inc.
Lot Number: SG20065

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

Volatiles
The matrix spike (MS) associated with sample -002 had acrolein recovered outside of the acceptance limits. The LCS was recovered within the required acceptance limits; therefore, this likely demonstrates a matrix effect.

Sample Summary
Smith Gardner, Inc.
Lot Number: SG20065

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	MW131T	Aqueous	07/20/2017 1220	07/20/2017
002	MW132T	Aqueous	07/20/2017 1135	07/20/2017
003	MW049T	Aqueous	07/20/2017 1315	07/20/2017
004	UBC034	Aqueous	07/20/2017 1150	07/20/2017
005	UBC022AR	Aqueous	07/20/2017 1325	07/20/2017
006	MW133T	Aqueous	07/20/2017 1255	07/20/2017
007	MW134T	Aqueous	07/20/2017 1240	07/20/2017
008	MW048TR	Aqueous	07/20/2017 1350	07/20/2017
009	MW142T	Aqueous	07/20/2017 1415	07/20/2017
010	MW016TR	Aqueous	07/20/2017 1335	07/20/2017
011	MW031TR	Aqueous	07/20/2017 1425	07/20/2017
012	MW033	Aqueous	07/20/2017 1310	07/20/2017
013	Field Blank	Aqueous	07/20/2017 1140	07/20/2017
014	Trip Blank	Aqueous	07/20/2017	07/20/2017

(14 samples)

Detection Summary

Smith Gardner, Inc.

Lot Number: SG20065

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	MW131T	Aqueous	Chloride	300.0	2.0		mg/L	5
001	MW131T	Aqueous	TDS	SM 2540C-	130		mg/L	5
001	MW131T	Aqueous	Barium	6010D	0.026		mg/L	8
002	MW132T	Aqueous	TDS	SM 2540C-	110		mg/L	10
002	MW132T	Aqueous	Barium	6010D	0.082		mg/L	13
003	MW049T	Aqueous	TDS	SM 2540C-	65		mg/L	15
003	MW049T	Aqueous	Barium	6010D	0.064		mg/L	18
004	UBC034	Aqueous	Chloride	300.0	2.6		mg/L	20
004	UBC034	Aqueous	TDS	SM 2540C-	140		mg/L	20
005	UBC022AR	Aqueous	Chloride	300.0	2.6		mg/L	25
005	UBC022AR	Aqueous	TDS	SM 2540C-	120		mg/L	25
005	UBC022AR	Aqueous	Barium	6010D	0.079		mg/L	28
006	MW133T	Aqueous	Chloride	300.0	2.5		mg/L	30
006	MW133T	Aqueous	TDS	SM 2540C-	160		mg/L	30
006	MW133T	Aqueous	Barium	6010D	0.11		mg/L	33
006	MW133T	Aqueous	Chromium	6010D	0.010		mg/L	33
007	MW134T	Aqueous	Chloride	300.0	2.7		mg/L	35
007	MW134T	Aqueous	TDS	SM 2540C-	210		mg/L	35
007	MW134T	Aqueous	Barium	6010D	0.16		mg/L	38
008	MW048TR	Aqueous	TDS	SM 2540C-	120		mg/L	40
008	MW048TR	Aqueous	Barium	6010D	0.10		mg/L	43
009	MW142T	Aqueous	TDS	SM 2540C-	160		mg/L	45
009	MW142T	Aqueous	Barium	6010D	0.059		mg/L	48
010	MW016TR	Aqueous	Chloride	300.0	3.9		mg/L	50
010	MW016TR	Aqueous	TDS	SM 2540C-	230		mg/L	50
010	MW016TR	Aqueous	Barium	6010D	0.033		mg/L	53
011	MW031TR	Aqueous	Chloride	300.0	2.2		mg/L	55
011	MW031TR	Aqueous	TDS	SM 2540C-	140		mg/L	55
011	MW031TR	Aqueous	Barium	6010D	0.094		mg/L	58
012	MW033	Aqueous	Chloride	300.0	2.0		mg/L	60
012	MW033	Aqueous	TDS	SM 2540C-	87		mg/L	60
012	MW033	Aqueous	Barium	6010D	0.090		mg/L	63

(32 detections)

Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SG20065-001
Description: MW131T
Matrix: Aqueous
Date Sampled: 07/20/2017 1220
Date Received: 07/20/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	07/20/2017 1220	CAE		
1		(Specific Con) 120.1	1	07/20/2017 1220	CAE		
1		(Temperature) SM 2550B-2010	1	07/20/2017 1220	CAE		
1		(Turbidity -) 180.1	1	07/20/2017 1220	CAE		
1		(Chloride) 300.0	1	07/28/2017 1653	KWP		47815
1		(TDS) SM 2540C-2011	1	07/25/2017 1210	MGM		47389

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	6.18			su	1
Specific Conductance - Field		120.1	120		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	21.2			° C	1
Turbidity - Field		180.1	1.5		1.0	NTU	1
Chloride		300.0	2.0		2.0	mg/L	1
TDS		SM 2540C-20	130		10	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SG20065-001
Description: MW131T
Matrix: Aqueous
Date Sampled: 07/20/2017 1220
Date Received: 07/20/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	07/26/2017 0203	JJG		47490

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		100	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG20065-001
Description: MW131T
Matrix: Aqueous
Date Sampled: 07/20/2017 1220
Date Received: 07/20/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/24/2017 1216	JM1		47302

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		94	70-130
Bromofluorobenzene		101	70-130
Toluene-d8		102	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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ICP-AES Metals

Client: Smith Gardner, Inc.
Laboratory ID: SG20065-001
Description: MW131T
Matrix: Aqueous
Date Sampled: 07/20/2017 1220
Date Received: 07/20/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010D	1	07/29/2017 0210	CJZ	07/22/2017 1256	47241

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	7440-39-3	6010D	0.026		0.025	mg/L	1
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	ND		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	1
Nickel	7440-02-0	6010D	ND		0.040	mg/L	1
Zinc	7440-66-6	6010D	ND		0.020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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CVAA

Client: Smith Gardner, Inc.
Laboratory ID: SG20065-001
Description: MW131T
Matrix: Aqueous
Date Sampled: 07/20/2017 1220
Date Received: 07/20/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	07/27/2017 0238	SLS	07/26/2017 2004	47596

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury	7439-97-6	7470A	ND		0.00020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SG20065-002
Description: MW132T
Matrix: Aqueous
Date Sampled: 07/20/2017 1135
Date Received: 07/20/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	07/20/2017 1135	CAE		
1		(Specific Con) 120.1	1	07/20/2017 1135	CAE		
1		(Temperature) SM 2550B-2010	1	07/20/2017 1135	CAE		
1		(Turbidity -) 180.1	1	07/20/2017 1135	CAE		
1		(Chloride) 300.0	1	07/28/2017 1808	KWP		47815
1		(TDS) SM 2540C-2011	1	07/25/2017 1902	AJG		47432

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	6.17			su	1
Specific Conductance - Field		120.1	130		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	21.2			° C	1
Turbidity - Field		180.1	2.2		1.0	NTU	1
Chloride		300.0	ND		2.0	mg/L	1
TDS		SM 2540C-20	110		10	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SG20065-002
Description: MW132T
Matrix: Aqueous
Date Sampled: 07/20/2017 1135
Date Received: 07/20/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	5030B	8260B (SIM iso.)	1	07/26/2017 1818	ECB		47558

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	2

Surrogate	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		100	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG20065-002
Description: MW132T
Matrix: Aqueous
Date Sampled: 07/20/2017 1135
Date Received: 07/20/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/24/2017 1238	JM1		47302

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		96	70-130
Bromofluorobenzene		103	70-130
Toluene-d8		103	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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ICP-AES Metals

Client: Smith Gardner, Inc.
Laboratory ID: SG20065-002
Description: MW132T
Matrix: Aqueous
Date Sampled: 07/20/2017 1135
Date Received: 07/20/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010D	1	07/29/2017 0214	CJZ	07/22/2017 1256	47241

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	7440-39-3	6010D	0.082		0.025	mg/L	1
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	ND		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	1
Nickel	7440-02-0	6010D	ND		0.040	mg/L	1
Zinc	7440-66-6	6010D	ND		0.020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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CVAA

Client: Smith Gardner, Inc.
Laboratory ID: SG20065-002
Description: MW132T
Matrix: Aqueous
Date Sampled: 07/20/2017 1135
Date Received: 07/20/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	07/27/2017 0241	SLS	07/26/2017 2004	47596

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury	7439-97-6	7470A	ND		0.00020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SG20065-003
Description: MW049T
Matrix: Aqueous
Date Sampled: 07/20/2017 1315
Date Received: 07/20/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	07/20/2017 1315	CAE		
1		(Specific Con) 120.1	1	07/20/2017 1315	CAE		
1		(Temperature) SM 2550B-2010	1	07/20/2017 1315	CAE		
1		(Turbidity -) 180.1	1	07/20/2017 1315	CAE		
1		(Chloride) 300.0	1	07/28/2017 1923	KWP		47815
1		(TDS) SM 2540C-2011	1	07/25/2017 1902	AJG		47432

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	6.04			su	1
Specific Conductance - Field		120.1	110		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	21.9			° C	1
Turbidity - Field		180.1	2.9		1.0	NTU	1
Chloride		300.0	ND		2.0	mg/L	1
TDS		SM 2540C-20	65		10	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SG20065-003
Description: MW049T
Matrix: Aqueous
Date Sampled: 07/20/2017 1315
Date Received: 07/20/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	5030B	8260B (SIM iso.)	1	07/26/2017 1842	ECB		47558

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	2

Surrogate	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		101	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG20065-003
Description: MW049T
Matrix: Aqueous
Date Sampled: 07/20/2017 1315
Date Received: 07/20/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/24/2017 1259	JM1		47302

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		98	70-130
Bromofluorobenzene		104	70-130
Toluene-d8		103	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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ICP-AES Metals

Client: Smith Gardner, Inc.
Laboratory ID: SG20065-003
Description: MW049T
Matrix: Aqueous
Date Sampled: 07/20/2017 1315
Date Received: 07/20/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010D	1	07/29/2017 0228	CJZ	07/22/2017 1256	47241

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	7440-39-3	6010D	0.064		0.025	mg/L	1
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	ND		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	1
Nickel	7440-02-0	6010D	ND		0.040	mg/L	1
Zinc	7440-66-6	6010D	ND		0.020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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CVAA

Client: Smith Gardner, Inc.
Laboratory ID: SG20065-003
Description: MW049T
Matrix: Aqueous
Date Sampled: 07/20/2017 1315
Date Received: 07/20/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	07/27/2017 0243	SLS	07/26/2017 2004	47596

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury	7439-97-6	7470A	ND		0.00020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SG20065-004
Description: UBC034
Matrix: Aqueous
Date Sampled: 07/20/2017 1150
Date Received: 07/20/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	07/20/2017 1150	CAE		
1		(Specific Con) 120.1	1	07/20/2017 1150	CAE		
1		(Temperature) SM 2550B-2010	1	07/20/2017 1150	CAE		
1		(Turbidity -) 180.1	1	07/20/2017 1150	CAE		
1		(Chloride) 300.0	1	07/28/2017 1948	KWP		47815
1		(TDS) SM 2540C-2011	1	07/25/2017 1902	AJG		47432

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	6.81			su	1
Specific Conductance - Field		120.1	120		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	22.2			° C	1
Turbidity - Field		180.1	1.8		1.0	NTU	1
Chloride		300.0	2.6		2.0	mg/L	1
TDS		SM 2540C-20	140		10	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SG20065-004
Description: UBC034
Matrix: Aqueous
Date Sampled: 07/20/2017 1150
Date Received: 07/20/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	07/26/2017 0315	JJG		47490

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		99	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG20065-004
Description: UBC034
Matrix: Aqueous
Date Sampled: 07/20/2017 1150
Date Received: 07/20/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/24/2017 1321	JM1		47302

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		96	70-130
Bromofluorobenzene		101	70-130
Toluene-d8		101	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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ICP-AES Metals

Client: Smith Gardner, Inc.
Laboratory ID: SG20065-004
Description: UBC034
Matrix: Aqueous
Date Sampled: 07/20/2017 1150
Date Received: 07/20/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010D	1	07/29/2017 0233	CJZ	07/22/2017 1256	47241

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	7440-39-3	6010D	ND		0.025	mg/L	1
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	ND		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	1
Nickel	7440-02-0	6010D	ND		0.040	mg/L	1
Zinc	7440-66-6	6010D	ND		0.020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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CVAA

Client: Smith Gardner, Inc.
Laboratory ID: SG20065-004
Description: UBC034
Matrix: Aqueous
Date Sampled: 07/20/2017 1150
Date Received: 07/20/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	07/27/2017 0245	SLS	07/26/2017 2004	47596

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury	7439-97-6	7470A	ND		0.00020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SG20065-005
Description: UBC022AR
Matrix: Aqueous
Date Sampled: 07/20/2017 1325
Date Received: 07/20/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	07/20/2017 1325	CAE		
1		(Specific Con) 120.1	1	07/20/2017 1325	CAE		
1		(Temperature) SM 2550B-2010	1	07/20/2017 1325	CAE		
1		(Turbidity -) 180.1	1	07/20/2017 1325	CAE		
1		(Chloride) 300.0	1	07/28/2017 2013	KWP		47815
1		(TDS) SM 2540C-2011	1	07/25/2017 1902	AJG		47432

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	6.54			su	1
Specific Conductance - Field		120.1	110		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	22.1			° C	1
Turbidity - Field		180.1	2.2		1.0	NTU	1
Chloride		300.0	2.6		2.0	mg/L	1
TDS		SM 2540C-20	120		10	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SG20065-005
Description: UBC022AR
Matrix: Aqueous
Date Sampled: 07/20/2017 1325
Date Received: 07/20/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	07/26/2017 0338	JJG		47490

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		99	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG20065-005
Description: UBC022AR
Matrix: Aqueous
Date Sampled: 07/20/2017 1325
Date Received: 07/20/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/24/2017 1343	JM1		47302

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		98	70-130
Bromofluorobenzene		105	70-130
Toluene-d8		103	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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ICP-AES Metals

Client: Smith Gardner, Inc.
Laboratory ID: SG20065-005
Description: UBC022AR
Matrix: Aqueous
Date Sampled: 07/20/2017 1325
Date Received: 07/20/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010D	1	07/29/2017 0237	CJZ	07/22/2017 1256	47241

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	7440-39-3	6010D	0.079		0.025	mg/L	1
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	ND		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	1
Nickel	7440-02-0	6010D	ND		0.040	mg/L	1
Zinc	7440-66-6	6010D	ND		0.020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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CVAA

Client: Smith Gardner, Inc.
Laboratory ID: SG20065-005
Description: UBC022AR
Matrix: Aqueous
Date Sampled: 07/20/2017 1325
Date Received: 07/20/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	07/27/2017 0252	SLS	07/26/2017 2004	47596

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury	7439-97-6	7470A	ND		0.00020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SG20065-006
Description: MW133T
Matrix: Aqueous
Date Sampled: 07/20/2017 1255
Date Received: 07/20/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	07/20/2017 1255	CAE		
1		(Specific Con) 120.1	1	07/20/2017 1255	CAE		
1		(Temperature) SM 2550B-2010	1	07/20/2017 1255	CAE		
1		(Turbidity -) 180.1	1	07/20/2017 1255	CAE		
1		(Chloride) 300.0	1	07/28/2017 2129	KWP		47815
1		(TDS) SM 2540C-2011	1	07/25/2017 1902	AJG		47432

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	6.14			su	1
Specific Conductance - Field		120.1	130		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	22.8			° C	1
Turbidity - Field		180.1	23		1.0	NTU	1
Chloride		300.0	2.5		2.0	mg/L	1
TDS		SM 2540C-20	160		10	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SG20065-006
Description: MW133T
Matrix: Aqueous
Date Sampled: 07/20/2017 1255
Date Received: 07/20/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	07/26/2017 0402	JJG		47490

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		101	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG20065-006
Description: MW133T
Matrix: Aqueous
Date Sampled: 07/20/2017 1255
Date Received: 07/20/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/24/2017 1405	JM1		47302

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		92	70-130
Bromofluorobenzene		100	70-130
Toluene-d8		100	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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ICP-AES Metals

Client: Smith Gardner, Inc.
Laboratory ID: SG20065-006
Description: MW133T
Matrix: Aqueous
Date Sampled: 07/20/2017 1255
Date Received: 07/20/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010D	1	07/29/2017 0242	CJZ	07/22/2017 1256	47241

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	7440-39-3	6010D	0.11		0.025	mg/L	1
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	0.010		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	1
Nickel	7440-02-0	6010D	ND		0.040	mg/L	1
Zinc	7440-66-6	6010D	ND		0.020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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CVAA

Client: Smith Gardner, Inc.
Laboratory ID: SG20065-006
Description: MW133T
Matrix: Aqueous
Date Sampled: 07/20/2017 1255
Date Received: 07/20/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	07/27/2017 0255	SLS	07/26/2017 2004	47596

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury	7439-97-6	7470A	ND		0.00020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SG20065-007
Description: MW134T
Matrix: Aqueous
Date Sampled: 07/20/2017 1240
Date Received: 07/20/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	07/20/2017 1240	CAE		
1		(Specific Con) 120.1	1	07/20/2017 1240	CAE		
1		(Temperature) SM 2550B-2010	1	07/20/2017 1240	CAE		
1		(Turbidity -) 180.1	1	07/20/2017 1240	CAE		
1		(Chloride) 300.0	1	07/28/2017 2154	KWP		47815
1		(TDS) SM 2540C-2011	1	07/25/2017 1902	AJG		47432

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	6.75			su	1
Specific Conductance - Field		120.1	170		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	22.3			° C	1
Turbidity - Field		180.1	2.7		1.0	NTU	1
Chloride		300.0	2.7		2.0	mg/L	1
TDS		SM 2540C-20	210		10	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SG20065-007
Description: MW134T
Matrix: Aqueous
Date Sampled: 07/20/2017 1240
Date Received: 07/20/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	07/26/2017 0426	JJG		47490

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		103	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG20065-007
Description: MW134T
Matrix: Aqueous
Date Sampled: 07/20/2017 1240
Date Received: 07/20/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/24/2017 1426	JM1		47302

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		94	70-130
Bromofluorobenzene		102	70-130
Toluene-d8		101	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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ICP-AES Metals

Client: Smith Gardner, Inc.
Laboratory ID: SG20065-007
Description: MW134T
Matrix: Aqueous
Date Sampled: 07/20/2017 1240
Date Received: 07/20/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010D	1	07/29/2017 0246	CJZ	07/22/2017 1256	47241

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	7440-39-3	6010D	0.16		0.025	mg/L	1
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	ND		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	1
Nickel	7440-02-0	6010D	ND		0.040	mg/L	1
Zinc	7440-66-6	6010D	ND		0.020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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CVAA

Client: Smith Gardner, Inc.
Laboratory ID: SG20065-007
Description: MW134T
Matrix: Aqueous
Date Sampled: 07/20/2017 1240
Date Received: 07/20/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	07/27/2017 0258	SLS	07/26/2017 2004	47596

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury	7439-97-6	7470A	ND		0.00020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SG20065-008
Description: MW048TR
Matrix: Aqueous
Date Sampled: 07/20/2017 1350
Date Received: 07/20/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	07/20/2017 1350	CAE		
1		(Specific Con) 120.1	1	07/20/2017 1350	CAE		
1		(Temperature) SM 2550B-2010	1	07/20/2017 1350	CAE		
1		(Turbidity -) 180.1	1	07/20/2017 1350	CAE		
1		(Chloride) 300.0	1	07/28/2017 2219	KWP		47815
1		(TDS) SM 2540C-2011	1	07/25/2017 1902	AJG		47432

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	6.26			su	1
Specific Conductance - Field		120.1	130		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	24.2			° C	1
Turbidity - Field		180.1	6.4		1.0	NTU	1
Chloride		300.0	ND		2.0	mg/L	1
TDS		SM 2540C-20	120		10	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SG20065-008
Description: MW048TR
Matrix: Aqueous
Date Sampled: 07/20/2017 1350
Date Received: 07/20/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	5030B	8260B (SIM iso.)	1	07/26/2017 1906	ECB		47558

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	2

Surrogate	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		101	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG20065-008
Description: MW048TR
Matrix: Aqueous
Date Sampled: 07/20/2017 1350
Date Received: 07/20/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/24/2017 1448	JM1		47302

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		93	70-130
Bromofluorobenzene		103	70-130
Toluene-d8		101	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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ICP-AES Metals

Client: Smith Gardner, Inc.
Laboratory ID: SG20065-008
Description: MW048TR
Matrix: Aqueous
Date Sampled: 07/20/2017 1350
Date Received: 07/20/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010D	1	07/29/2017 0251	CJZ	07/22/2017 1256	47241

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	7440-39-3	6010D	0.10		0.025	mg/L	1
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	ND		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	1
Nickel	7440-02-0	6010D	ND		0.040	mg/L	1
Zinc	7440-66-6	6010D	ND		0.020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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CVAA

Client: Smith Gardner, Inc.
Laboratory ID: SG20065-008
Description: MW048TR
Matrix: Aqueous
Date Sampled: 07/20/2017 1350
Date Received: 07/20/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	07/27/2017 0301	SLS	07/26/2017 2004	47596

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury	7439-97-6	7470A	ND		0.00020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SG20065-009
Description: MW142T
Matrix: Aqueous
Date Sampled: 07/20/2017 1415
Date Received: 07/20/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	07/20/2017 1415	CAE		
1		(Specific Con) 120.1	1	07/20/2017 1415	CAE		
1		(Temperature) SM 2550B-2010	1	07/20/2017 1415	CAE		
1		(Turbidity -) 180.1	1	07/20/2017 1415	CAE		
1		(Chloride) 300.0	1	07/28/2017 2244	KWP		47815
1		(TDS) SM 2540C-2011	1	07/26/2017 1606	AJG		47523

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	5.85			su	1
Specific Conductance - Field		120.1	120		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	24.0			° C	1
Turbidity - Field		180.1	5.4		1.0	NTU	1
Chloride		300.0	ND		2.0	mg/L	1
TDS		SM 2540C-20	160		10	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SG20065-009
Description: MW142T
Matrix: Aqueous
Date Sampled: 07/20/2017 1415
Date Received: 07/20/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	07/26/2017 0513	JJG		47490

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		101	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG20065-009
Description: MW142T
Matrix: Aqueous
Date Sampled: 07/20/2017 1415
Date Received: 07/20/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/24/2017 1510	JM1		47302

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		93	70-130
Bromofluorobenzene		104	70-130
Toluene-d8		102	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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ICP-AES Metals

Client: Smith Gardner, Inc.
Laboratory ID: SG20065-009
Description: MW142T
Matrix: Aqueous
Date Sampled: 07/20/2017 1415
Date Received: 07/20/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010D	1	07/29/2017 0256	CJZ	07/22/2017 1256	47241

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	7440-39-3	6010D	0.059		0.025	mg/L	1
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	ND		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	1
Nickel	7440-02-0	6010D	ND		0.040	mg/L	1
Zinc	7440-66-6	6010D	ND		0.020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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CVAA

Client: Smith Gardner, Inc.
Laboratory ID: SG20065-009
Description: MW142T
Matrix: Aqueous
Date Sampled: 07/20/2017 1415
Date Received: 07/20/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	07/27/2017 0303	SLS	07/26/2017 2004	47596

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury	7439-97-6	7470A	ND		0.00020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SG20065-010
Description: MW016TR
Matrix: Aqueous
Date Sampled: 07/20/2017 1335
Date Received: 07/20/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	07/20/2017 1335	CAE		
1		(Specific Con) 120.1	1	07/20/2017 1335	CAE		
1		(Temperature) SM 2550B-2010	1	07/20/2017 1335	CAE		
1		(Turbidity -) 180.1	1	07/20/2017 1335	CAE		
1		(Chloride) 300.0	1	07/28/2017 2309	KWP		47815
1		(TDS) SM 2540C-2011	1	07/25/2017 1902	AJG		47432

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	6.05			su	1
Specific Conductance - Field		120.1	170		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	22.0			° C	1
Turbidity - Field		180.1	1.6		1.0	NTU	1
Chloride		300.0	3.9		2.0	mg/L	1
TDS		SM 2540C-20	230		10	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SG20065-010
Description: MW016TR
Matrix: Aqueous
Date Sampled: 07/20/2017 1335
Date Received: 07/20/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	07/26/2017 0537	JJG		47490

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		100	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

Shealy Environmental Services, Inc.
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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG20065-010
Description: MW016TR
Matrix: Aqueous
Date Sampled: 07/20/2017 1335
Date Received: 07/20/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/24/2017 1532	JM1		47302

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		94	70-130
Bromofluorobenzene		101	70-130
Toluene-d8		99	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
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N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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ICP-AES Metals

Client: Smith Gardner, Inc.
Laboratory ID: SG20065-010
Description: MW016TR
Matrix: Aqueous
Date Sampled: 07/20/2017 1335
Date Received: 07/20/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010D	1	07/29/2017 0300	CJZ	07/22/2017 1256	47241

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	7440-39-3	6010D	0.033		0.025	mg/L	1
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	ND		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	1
Nickel	7440-02-0	6010D	ND		0.040	mg/L	1
Zinc	7440-66-6	6010D	ND		0.020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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CVAA

Client: Smith Gardner, Inc.
Laboratory ID: SG20065-010
Description: MW016TR
Matrix: Aqueous
Date Sampled: 07/20/2017 1335
Date Received: 07/20/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	07/27/2017 0305	SLS	07/26/2017 2004	47596

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury	7439-97-6	7470A	ND		0.00020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SG20065-011
Description: MW031TR
Matrix: Aqueous
Date Sampled: 07/20/2017 1425
Date Received: 07/20/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	07/20/2017 1425	CAE		
1		(Specific Con) 120.1	1	07/20/2017 1425	CAE		
1		(Temperature) SM 2550B-2010	1	07/20/2017 1425	CAE		
1		(Turbidity -) 180.1	1	07/20/2017 1425	CAE		
1		(Chloride) 300.0	1	07/28/2017 2334	KWP		47815
1		(TDS) SM 2540C-2011	1	07/26/2017 1606	AJG		47523

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	5.92			su	1
Specific Conductance - Field		120.1	110		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	22.5			° C	1
Turbidity - Field		180.1	9.0		1.0	NTU	1
Chloride		300.0	2.2		2.0	mg/L	1
TDS		SM 2540C-20	140		10	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SG20065-011
Description: MW031TR
Matrix: Aqueous
Date Sampled: 07/20/2017 1425
Date Received: 07/20/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	07/26/2017 0600	JJG		47490

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		102	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG20065-011
Description: MW031TR
Matrix: Aqueous
Date Sampled: 07/20/2017 1425
Date Received: 07/20/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/24/2017 1554	JM1		47302

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		94	70-130
Bromofluorobenzene		102	70-130
Toluene-d8		100	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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ICP-AES Metals

Client: Smith Gardner, Inc.
Laboratory ID: SG20065-011
Description: MW031TR
Matrix: Aqueous
Date Sampled: 07/20/2017 1425
Date Received: 07/20/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010D	1	07/29/2017 0305	CJZ	07/22/2017 1256	47241

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	7440-39-3	6010D	0.094		0.025	mg/L	1
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	ND		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	1
Nickel	7440-02-0	6010D	ND		0.040	mg/L	1
Zinc	7440-66-6	6010D	ND		0.020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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CVAA

Client: Smith Gardner, Inc.
Laboratory ID: SG20065-011
Description: MW031TR
Matrix: Aqueous
Date Sampled: 07/20/2017 1425
Date Received: 07/20/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	07/27/2017 0308	SLS	07/26/2017 2004	47596

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury	7439-97-6	7470A	ND		0.00020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SG20065-012
Description: MW033
Matrix: Aqueous
Date Sampled: 07/20/2017 1310
Date Received: 07/20/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	07/20/2017 1310	CAE		
1		(Specific Con) 120.1	1	07/20/2017 1310	CAE		
1		(Temperature) SM 2550B-2010	1	07/20/2017 1310	CAE		
1		(Turbidity -) 180.1	1	07/20/2017 1310	CAE		
1		(Chloride) 300.0	1	07/28/2017 2359	KWP		47815
1		(TDS) SM 2540C-2011	1	07/25/2017 1902	AJG		47432

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	6.23			su	1
Specific Conductance - Field		120.1	140		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	22.5			° C	1
Turbidity - Field		180.1	5.4		1.0	NTU	1
Chloride		300.0	2.0		2.0	mg/L	1
TDS		SM 2540C-20	87		10	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SG20065-012
Description: MW033
Matrix: Aqueous
Date Sampled: 07/20/2017 1310
Date Received: 07/20/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	07/26/2017 1955	ECB		47558

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		102	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG20065-012
Description: MW033
Matrix: Aqueous
Date Sampled: 07/20/2017 1310
Date Received: 07/20/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/24/2017 1616	JM1		47302

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		95	70-130
Bromofluorobenzene		106	70-130
Toluene-d8		104	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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ICP-AES Metals

Client: Smith Gardner, Inc.
Laboratory ID: SG20065-012
Description: MW033
Matrix: Aqueous
Date Sampled: 07/20/2017 1310
Date Received: 07/20/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010D	1	07/29/2017 0309	CJZ	07/22/2017 1256	47241

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	7440-39-3	6010D	0.090		0.025	mg/L	1
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	ND		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	1
Nickel	7440-02-0	6010D	ND		0.040	mg/L	1
Zinc	7440-66-6	6010D	ND		0.020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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CVAA

Client: Smith Gardner, Inc.
Laboratory ID: SG20065-012
Description: MW033
Matrix: Aqueous
Date Sampled: 07/20/2017 1310
Date Received: 07/20/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	07/27/2017 0311	SLS	07/26/2017 2004	47596

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury	7439-97-6	7470A	ND		0.00020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG20065-013
Description: Field Blank
Matrix: Aqueous
Date Sampled: 07/20/2017 1140
Date Received: 07/20/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/24/2017 1133	JM1		47302

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		95	70-130
Bromofluorobenzene		102	70-130
Toluene-d8		103	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
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N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG20065-014
Description: Trip Blank
Matrix: Aqueous
Date Sampled: 07/20/2017
Date Received: 07/20/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/24/2017 1154	JM1		47302

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		94	70-130
Bromofluorobenzene		101	70-130
Toluene-d8		101	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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QC Summary

Inorganic non-metals - MB

Sample ID: SQ47389-001
Batch: 47389
Analytical Method: SM 2540C-2011

Matrix: Aqueous

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
TDS	ND		1	10	mg/L	07/25/2017 1210

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - LCS

Sample ID: SQ47389-002
Batch: 47389
Analytical Method: SM 2540C-2011

Matrix: Aqueous

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
TDS	1500	1400		1	97	90-110	07/25/2017 1210

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - MB

Sample ID: SQ47432-001
Batch: 47432
Analytical Method: SM 2540C-2011

Matrix: Aqueous

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
TDS	ND		1	10	mg/L	07/25/2017 1902

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - LCS

Sample ID: SQ47432-002
Batch: 47432
Analytical Method: SM 2540C-2011

Matrix: Aqueous

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
TDS	1500	1500		1	97	90-110	07/25/2017 1902

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - MB

Sample ID: SQ47523-001
Batch: 47523
Analytical Method: SM 2540C-2011

Matrix: Aqueous

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
TDS	ND		1	10	mg/L	07/26/2017 1606

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - LCS

Sample ID: SQ47523-002
Batch: 47523
Analytical Method: SM 2540C-2011
Matrix: Aqueous

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
TDS	1500	1500		1	97	90-110	07/26/2017 1606

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ
N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - MB

Sample ID: SQ47815-001
Batch: 47815
Analytical Method: 300.0

Matrix: Aqueous

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
Chloride	ND		1	2.0	mg/L	07/28/2017 1603

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - LCS

Sample ID: SQ47815-002
Batch: 47815
Analytical Method: 300.0
Matrix: Aqueous

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Chloride	20	20		1	99	90-110	07/28/2017 1628

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ
N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - MS

Sample ID: SG20065-001MS
Batch: 47815
Analytical Method: 300.0

Matrix: Aqueous

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Chloride	2.0	20	22		1	100	90-110	07/28/2017 1718

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - MSD

Sample ID: SG20065-001MD
Batch: 47815
Analytical Method: 300.0
Matrix: Aqueous

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Chloride	2.0	20	22		1	100	0.26	90-110	20	07/28/2017 1743

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ
N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - MS

Sample ID: SG20065-002MS
Batch: 47815
Analytical Method: 300.0

Matrix: Aqueous

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Chloride	ND	20	21		1	103	90-110	07/28/2017 1833

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - MSD

Sample ID: SG20065-002MD
Batch: 47815
Analytical Method: 300.0
Matrix: Aqueous

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Chloride	ND	20	21		1	105	1.5	90-110	20	07/28/2017 1858

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ
N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - MB

Sample ID: SQ47302-001
Batch: 47302
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
Acrolein	ND		1	20	ug/L	07/24/2017 1038
Acrylonitrile	ND		1	20	ug/L	07/24/2017 1038
Benzene	ND		1	5.0	ug/L	07/24/2017 1038
Bromodichloromethane	ND		1	5.0	ug/L	07/24/2017 1038
Bromoform	ND		1	5.0	ug/L	07/24/2017 1038
Bromomethane (Methyl bromide)	ND		1	10	ug/L	07/24/2017 1038
Carbon tetrachloride	ND		1	5.0	ug/L	07/24/2017 1038
Chlorobenzene	ND		1	5.0	ug/L	07/24/2017 1038
Chloroethane	ND		1	10	ug/L	07/24/2017 1038
2-Chloroethylvinylether	ND		1	10	ug/L	07/24/2017 1038
Chloroform	ND		1	5.0	ug/L	07/24/2017 1038
Chloromethane (Methyl chloride)	ND		1	10	ug/L	07/24/2017 1038
Dibromochloromethane	ND		1	10	ug/L	07/24/2017 1038
1,1-Dichloroethane	ND		1	5.0	ug/L	07/24/2017 1038
1,2-Dichloroethane	ND		1	5.0	ug/L	07/24/2017 1038
1,1-Dichloroethene	ND		1	5.0	ug/L	07/24/2017 1038
cis-1,2-Dichloroethene	ND		1	5.0	ug/L	07/24/2017 1038
trans-1,2-Dichloroethene	ND		1	5.0	ug/L	07/24/2017 1038
1,2-Dichloropropane	ND		1	5.0	ug/L	07/24/2017 1038
cis-1,3-Dichloropropene	ND		1	5.0	ug/L	07/24/2017 1038
trans-1,3-Dichloropropene	ND		1	5.0	ug/L	07/24/2017 1038
Ethylbenzene	ND		1	5.0	ug/L	07/24/2017 1038
Methylene chloride	ND		1	5.0	ug/L	07/24/2017 1038
1,1,2,2-Tetrachloroethane	ND		1	5.0	ug/L	07/24/2017 1038
Tetrachloroethene	ND		1	5.0	ug/L	07/24/2017 1038
Toluene	ND		1	5.0	ug/L	07/24/2017 1038
1,1,1-Trichloroethane	ND		1	5.0	ug/L	07/24/2017 1038
1,1,2-Trichloroethane	ND		1	5.0	ug/L	07/24/2017 1038
Trichloroethene	ND		1	5.0	ug/L	07/24/2017 1038
Vinyl chloride	ND		1	2.0	ug/L	07/24/2017 1038

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		92	70-130
Bromofluorobenzene		102	70-130
Toluene-d8		102	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - LCS

Sample ID: SQ47302-002
Batch: 47302
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acrolein	500	650		1	129	60-140	07/24/2017 0943
Acrylonitrile	100	90		1	90	70-130	07/24/2017 0943
Benzene	50	44		1	88	70-130	07/24/2017 0943
Bromodichloromethane	50	43		1	86	70-130	07/24/2017 0943
Bromoform	50	47		1	93	70-130	07/24/2017 0943
Bromomethane (Methyl bromide)	50	43		1	86	70-130	07/24/2017 0943
Carbon tetrachloride	50	41		1	81	70-130	07/24/2017 0943
Chlorobenzene	50	46		1	92	70-130	07/24/2017 0943
Chloroethane	50	46		1	92	70-130	07/24/2017 0943
Chloroform	50	42		1	84	70-130	07/24/2017 0943
Chloromethane (Methyl chloride)	50	44		1	89	60-140	07/24/2017 0943
Dibromochloromethane	50	46		1	93	70-130	07/24/2017 0943
1,1-Dichloroethane	50	41		1	82	70-130	07/24/2017 0943
1,2-Dichloroethane	50	44		1	89	70-130	07/24/2017 0943
1,1-Dichloroethene	50	42		1	84	70-130	07/24/2017 0943
cis-1,2-Dichloroethene	50	41		1	82	70-130	07/24/2017 0943
trans-1,2-Dichloroethene	50	42		1	83	70-130	07/24/2017 0943
1,2-Dichloropropane	50	43		1	86	70-130	07/24/2017 0943
cis-1,3-Dichloropropene	50	45		1	89	70-130	07/24/2017 0943
trans-1,3-Dichloropropene	50	45		1	90	70-130	07/24/2017 0943
Ethylbenzene	50	46		1	92	70-130	07/24/2017 0943
Methylene chloride	50	42		1	83	70-130	07/24/2017 0943
1,1,2,2-Tetrachloroethane	50	46		1	93	70-130	07/24/2017 0943
Tetrachloroethene	50	47		1	94	70-130	07/24/2017 0943
Toluene	50	46		1	91	70-130	07/24/2017 0943
1,1,1-Trichloroethane	50	43		1	86	70-130	07/24/2017 0943
1,1,2-Trichloroethane	50	44		1	87	70-130	07/24/2017 0943
Trichloroethene	50	42		1	85	70-130	07/24/2017 0943
Vinyl chloride	50	45		1	90	70-130	07/24/2017 0943

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		96	70-130
Bromofluorobenzene		101	70-130
Toluene-d8		105	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - Duplicate

Sample ID: SG20065-001DU
Batch: 47302
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Result (ug/L)	Q	Dil	% RPD	% RPD Limit	Analysis Date
Acrolein	ND	ND		1	0.00	20	07/24/2017 1827
Acrylonitrile	ND	ND		1	0.00	20	07/24/2017 1827
Benzene	ND	ND		1	0.00	20	07/24/2017 1827
Bromodichloromethane	ND	ND		1	0.00	20	07/24/2017 1827
Bromoform	ND	ND		1	0.00	20	07/24/2017 1827
Bromomethane (Methyl bromide)	ND	ND		1	0.00	20	07/24/2017 1827
Carbon tetrachloride	ND	ND		1	0.00	20	07/24/2017 1827
Chlorobenzene	ND	ND		1	0.00	20	07/24/2017 1827
Chloroethane	ND	ND		1	0.00	20	07/24/2017 1827
2-Chloroethylvinylether	ND	ND		1	0.00	20	07/24/2017 1827
Chloroform	ND	ND		1	0.00	20	07/24/2017 1827
Chloromethane (Methyl chloride)	ND	ND		1	0.00	20	07/24/2017 1827
Dibromochloromethane	ND	ND		1	0.00	20	07/24/2017 1827
1,1-Dichloroethane	ND	ND		1	0.00	20	07/24/2017 1827
1,2-Dichloroethane	ND	ND		1	0.00	20	07/24/2017 1827
1,1-Dichloroethene	ND	ND		1	0.00	20	07/24/2017 1827
cis-1,2-Dichloroethene	ND	ND		1	0.00	20	07/24/2017 1827
trans-1,2-Dichloroethene	ND	ND		1	0.00	20	07/24/2017 1827
1,2-Dichloropropane	ND	ND		1	0.00	20	07/24/2017 1827
cis-1,3-Dichloropropene	ND	ND		1	0.00	20	07/24/2017 1827
trans-1,3-Dichloropropene	ND	ND		1	0.00	20	07/24/2017 1827
Ethylbenzene	ND	ND		1	0.00	20	07/24/2017 1827
Methylene chloride	ND	ND		1	0.00	20	07/24/2017 1827
1,1,2,2-Tetrachloroethane	ND	ND		1	0.00	20	07/24/2017 1827
Tetrachloroethene	ND	ND		1	0.00	20	07/24/2017 1827
Toluene	ND	ND		1	0.00	20	07/24/2017 1827
1,1,1-Trichloroethane	ND	ND		1	0.00	20	07/24/2017 1827
1,1,2-Trichloroethane	ND	ND		1	0.00	20	07/24/2017 1827
Trichloroethene	ND	ND		1	0.00	20	07/24/2017 1827
Vinyl chloride	ND	ND		1	0.00	20	07/24/2017 1827

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		94	70-130
Bromofluorobenzene		102	70-130
Toluene-d8		101	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - MS

Sample ID: SG20065-002MS
Batch: 47302
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acrolein	ND	500	ND	N	1	0.00	60-140	07/24/2017 1849
Acrylonitrile	ND	100	71		1	71	70-122	07/24/2017 1849
Benzene	ND	50	48		1	96	70-130	07/24/2017 1849
Bromodichloromethane	ND	50	46		1	93	70-130	07/24/2017 1849
Bromoform	ND	50	49		1	97	70-130	07/24/2017 1849
Bromomethane (Methyl bromide)	ND	50	47		1	94	70-130	07/24/2017 1849
Carbon tetrachloride	ND	50	48		1	96	70-130	07/24/2017 1849
Chlorobenzene	ND	50	51		1	101	70-130	07/24/2017 1849
Chloroethane	ND	50	52		1	103	70-130	07/24/2017 1849
Chloroform	ND	50	46		1	92	70-130	07/24/2017 1849
Chloromethane (Methyl chloride)	ND	50	47		1	93	60-140	07/24/2017 1849
Dibromochloromethane	ND	50	49		1	98	70-130	07/24/2017 1849
1,1-Dichloroethane	ND	50	45		1	89	70-130	07/24/2017 1849
1,2-Dichloroethane	ND	50	47		1	94	70-130	07/24/2017 1849
1,1-Dichloroethene	ND	50	45		1	90	70-130	07/24/2017 1849
cis-1,2-Dichloroethene	ND	50	44		1	88	70-130	07/24/2017 1849
trans-1,2-Dichloroethene	ND	50	46		1	92	70-130	07/24/2017 1849
1,2-Dichloropropane	ND	50	47		1	94	70-130	07/24/2017 1849
cis-1,3-Dichloropropene	ND	50	48		1	97	70-130	07/24/2017 1849
trans-1,3-Dichloropropene	ND	50	48		1	95	70-130	07/24/2017 1849
Ethylbenzene	ND	50	51		1	103	70-130	07/24/2017 1849
Methylene chloride	ND	50	40		1	81	70-130	07/24/2017 1849
1,1,2,2-Tetrachloroethane	ND	50	45		1	90	70-130	07/24/2017 1849
Tetrachloroethene	ND	50	54		1	109	70-130	07/24/2017 1849
Toluene	ND	50	51		1	102	70-130	07/24/2017 1849
1,1,1-Trichloroethane	ND	50	50		1	100	70-130	07/24/2017 1849
1,1,2-Trichloroethane	ND	50	46		1	93	70-130	07/24/2017 1849
Trichloroethene	ND	50	47		1	95	70-130	07/24/2017 1849
Vinyl chloride	ND	50	45		1	91	70-130	07/24/2017 1849

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		95	70-130
Bromofluorobenzene		107	70-130
Toluene-d8		103	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution) - MB

Sample ID: SQ47490-001
Batch: 47490
Analytical Method: 8260B (SIM iso.)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
1,4-Dioxane	ND		1	3.0	ug/L	07/25/2017 2154

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		96	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution) - LCS

Sample ID: SQ47490-002
Batch: 47490
Analytical Method: 8260B (SIM iso.)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,4-Dioxane	50	42		1	85	70-130	07/25/2017 2106

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		94	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution) - LCSD

Sample ID: SQ47490-003
Batch: 47490
Analytical Method: 8260B (SIM iso.)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
1,4-Dioxane	50	42		1	85	0.32	70-130	20	07/25/2017 2130

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		95	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution) - MB

Sample ID: SQ47558-001
Batch: 47558
Analytical Method: 8260B (SIM iso.)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
1,4-Dioxane	ND		1	3.0	ug/L	07/26/2017 1336

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		98	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution) - LCS

Sample ID: SQ47558-002
Batch: 47558
Analytical Method: 8260B (SIM iso.)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,4-Dioxane	50	47		1	95	70-130	07/26/2017 1247

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		96	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution) - LCSD

Sample ID: SQ47558-003
Batch: 47558
Analytical Method: 8260B (SIM iso.)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
1,4-Dioxane	50	45		1	90	5.2	70-130	20	07/26/2017 1311

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		94	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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ICP-AES Metals - MB

Sample ID: SQ47241-001
Batch: 47241
Analytical Method: 6010D

Matrix: Aqueous
Prep Method: 3005A
Prep Date: 07/22/2017 1256

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
Arsenic	ND		1	0.015	mg/L	07/29/2017 0057
Barium	ND		1	0.025	mg/L	07/29/2017 0057
Cadmium	ND		1	0.0050	mg/L	07/29/2017 0057
Chromium	ND		1	0.010	mg/L	07/29/2017 0057
Lead	ND		1	0.010	mg/L	07/29/2017 0057
Nickel	ND		1	0.040	mg/L	07/29/2017 0057
Zinc	ND		1	0.020	mg/L	07/29/2017 0057

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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ICP-AES Metals - LCS

Sample ID: SQ47241-002
Batch: 47241
Analytical Method: 6010D

Matrix: Aqueous
Prep Method: 3005A
Prep Date: 07/22/2017 1256

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Arsenic	0.40	0.42		1	104	80-120	07/29/2017 0101
Barium	2.0	2.0		1	99	80-120	07/29/2017 0101
Cadmium	0.40	0.41		1	103	80-120	07/29/2017 0101
Chromium	2.0	2.0		1	98	80-120	07/29/2017 0101
Lead	0.40	0.42		1	106	80-120	07/29/2017 0101
Nickel	2.0	2.0		1	102	80-120	07/29/2017 0101
Zinc	2.0	2.0		1	101	80-120	07/29/2017 0101

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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CVAA - MB

Sample ID: SQ47596-001
Batch: 47596
Analytical Method: 7470A

Matrix: Aqueous
Prep Method: 7470A
Prep Date: 07/26/2017 2004

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
Mercury	ND		1	0.00020	mg/L	07/27/2017 0056

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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CVAA - LCS

Sample ID: SQ47596-002
Batch: 47596
Analytical Method: 7470A

Matrix: Aqueous
Prep Method: 7470A
Prep Date: 07/26/2017 2004

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Mercury	0.0020	0.0019		1	97	80-120	07/27/2017 0058

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Chain of Custody
and
Miscellaneous Documents

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West Columbia, South Carolina 29172
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www.shealylab.com

Chain of Custody Record

Number

Client: Smith Gardner	Report to Contact: Kevin Anderson	Telephone No. / Fax No. / Email: 919-829-0577	Quote No.: 15127
Address: 14 North Bolyan Ave	Sampler's Signature: x [signature]	Waybill No.	Page: 1 of 2
City: Raleigh / State: NC / Zip Code: 27603	Printed Name: Brian Ranson		
Project Name: Pinewood Detection Monitoring (GW)			
Project Number: DM	P.O Number: 2017		

Analysis (Attach list if more space is needed)

SG20065

Sample ID / Description (Containers for each sample may be combined on one line)	Date	Time	G=Grab C=Composite	Matrix: Aqueous	Soil	Non-Aq.	No. of Containers by Preservation Type: Unpres.	H2SO4	HNO3	HCL	NaOH	5035 kit	NaOH+Zn	VOC	1,4-Dioxane SIM	Metals + Hg - As,Ba,Cd,Cr,Pb,Ni,Z	Chloride/TDS
MW 131 T	7/20	1220	G	X			2		1	6				✓	✓	✓	✓
MW 132 T	7/20	1135												✓	✓	✓	✓
MW 049 T	7/20	1315												✓	✓	✓	✓
UBC 034	7/20	1150												✓	✓	✓	✓
UBC 022 AR	7/20	1325												✓	✓	✓	✓
MW 133 T	7/20	1255												✓	✓	✓	✓
MW 134 T	7/20	1240												✓	✓	✓	✓
MW 048TR	7/20	1350												✓	✓	✓	✓
MW 142 T	7/20	1415												✓	✓	✓	✓
MW 016TR	7/20	1335	*	↓			✗		*	4				✓	✓	✓	✓

Possible Hazard Identification: [X] Non-Hazard [ ] Flammable [ ] Skin Irritant: [ ] Poison [ ] Unknown

Sample Disposal: [ ] Return to Client [X] Disposal by Lab

Note: All samples are retained for six weeks from receipt unless other arrangements are made

Turn Around Time Required (Prior lab approval required for expedited TAT): [X] Standard [ ] Rush (Please Specify)

QC Requirements (Please Specify)

	Date	Time		Date	Time
1. Relinquished by: [signature]	7/20/17	1440	1. Received by: [signature]	7/20/17	1440
2. Relinquished by	Date	Time	2. Received by	Date	Time
3. Relinquished by: [signature]	7/20/17	1645	3. Laboratory Received by: [signature]	7-20-17	1645

Comments: [signature]

LAB USE ONLY
Received on Ice (Check) [X] Y [ ] N [ ] Ice Pack
Receipt Temp. 2.1 °C TB

Document Number: F-AC-104 Effective Date 08-10-10

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Chain of Custody Record

Number

Client	Report to Contact	Telephone No. / Fax No. / Email	Quote No.
Smith Gardner	Kevin Anderson	919-828-0577	15127
Address: 14 North Bolyan Ave	Sampler's Signature: x Brett Ranson	Waybill No.	Page 2 of 2
City: Raleigh / State: NC / Zip Code: 27603	Printed Name: Brett Ranson		
Project Name: Pinewood Detection Monitoring (GW)			
Project Number: DM	P.O Number: 2017		

Analysis (Attach list if more space is needed)

Sample ID / Description (Containers for each sample may be combined on one line)	Date	Time	G Grab C=Composite	Matrix: Aqueous	Solid	Non-Aq	No. of Containers by Preservation Type: Unpres	H2SO4	HNO3	HCL	NaOH	5035 kit	NaO-HZ	VOC	1,4-Dioxane SIM	Metals + Hg - As,Ba,Cd,Cr,Pb,Ni,Z	Chloride/TDS	SG20065
MW031R	7/20	1425	G	X			2		1	6				✓	✓	✓	✓	
MW033	7/20	1310	G	1			1		1	1				✓	✓	✓	✓	
Field Blank	7/20	1140	G	1			1			3				✓				
Trip Blank	7/20			1			2							✓				

Possible Hazard Identification: [X] Non-Hazard [ ] Flammable [ ] Skin Irritant [ ] Poison [ ] Unknown

Sample Disposal: [ ] Return to Client [X] Disposal by Lab

Note: All samples are retained for six weeks from receipt unless other arrangements are made

Turn Around Time Required (Prior lab approval required for expedited TAT): [X] Standard [ ] Rush (Please Specify)

QC Requirements (Please Specify)

	Date	Time		Date	Time
1. Relinquished by: Brett Ranson	7/20/17	1440	1. Received by:	7/20/17	1440
2. Relinquished by	Date	Time	2. Received by	Date	Time
3. Relinquished by	7/20/17	1645	3. Laboratory Received by: Erin Caldwell	7-20-17	1645

Comments

LAB USE ONLY
Received on Ice (Check) [X] Y [ ] N [ ] Ice Pack

Receipt Temp. 2.1 °C TB

Document Number: F-AD-104 Effective Date 05-10-10

Shealy Environmental Services, Inc.
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

SHEALY ENVIRONMENTAL SERVICES, INC.

Shealy Environmental Services, Inc.
Document Number: MB0018C-03

Page 1 of 1
Effective Date: 03/07/2017
Expiry Date: 03/07/2022

Sample Receipt Checklist (SRC)

Client: S & G Cooler Inspected by/date: ELC 7-20-17 Lot #: SG 20065

Means of receipt: ☑ SESI ☐ Client ☐ UPS ☐ FedEx ☐ Other			
Yes ☐	No ☑		1. Were custody seals present on the cooler?
Yes ☐	No ☐	NA ☑	2. If custody seals were present, were they intact and unbroken?

pH strip ID: 17-854 Cl strip ID:

Cooler ID/Original temperature upon receipt/Derived (corrected) temperature upon receipt:

/ / °C 12.1 12.1 °C / / °C / / °C

Method: ☑ Temperature Blank ☐ Against Bottles IR Gun ID: 6 IR Gun Correction Factor: 0 °C

Method of coolant: ☑ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ None

Yes ☐	No ☐	NA ☑	3. If temperature of any cooler exceeded 6.0°C, was Project Manager Notified? PM was Notified by: phone / email / face-to-face (circle one).
Yes ☐	No ☐	NA ☑	4. Is the commercial courier's packing slip attached to this form?
Yes ☑	No ☐		5. Were proper custody procedures (relinquished/received) followed?
Yes ☑	No ☐		6. Were sample IDs listed on the COC?
Yes ☑	No ☐		7. Were sample IDs listed on all sample containers?
Yes ☑	No ☐		8. Was collection date & time listed on the COC?
Yes ☑	No ☐		9. Was collection date & time listed on all sample containers?
Yes ☑	No ☐		10. Did all container label information (ID, date, time) agree with the COC?
Yes ☑	No ☐		11. Were tests to be performed listed on the COC?
Yes ☑	No ☐		12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)?
Yes ☑	No ☐		13. Was adequate sample volume available?
Yes ☑	No ☐		14. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes ☐	No ☑		15. Were any samples containers missing/excess (circle one) samples Not listed on COC?
Yes ☐	No ☑	NA ☐	16. Were bubbles present >"pea-size" (¼"or 6mm in diameter) in any VOA vials?
Yes ☑	No ☐	NA ☐	17. Were all DRO/metals/nutrient samples received at a pH of < 2?
Yes ☐	No ☐	NA ☑	18. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9?
Yes ☐	No ☐	NA ☑	19. Were all applicable NH3/TKN/cyanide/phenol/BNA (< 0.5mg/L) samples free of residual chlorine?
Yes ☐	No ☐	NA ☑	20. Were collection temperatures documented on the COC for NC samples?
Yes ☐	No ☐	NA ☑	21. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc…) correctly transcribed from the COC into the comment section in LIMS?
Yes ☐	No ☑		22. Was the quote number used taken from the container label?

Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s) _____ were received incorrectly preserved and were adjusted accordingly in sample receiving with _____ (H_2SO_4, HNO_3, HCl, NaOH) using SR # _____.

Sample(s) _____ were received with bubbles >6 mm in diameter.

Samples(s) _____ were received with TRC > 0.5 mg/L (If #21 is No) and were adjusted accordingly in sample receiving with sodium thiosulfate ($Na_2S_2O_3$) with Shealy ID: _____

SC Drinking Water Project Sample(s) pH verified to be < 2 by _____ Date: _____

Sample(s) _____ were Not received at a pH of < 2 and were adjusted accordingly using SR# _____

Sample labels applied by: Ellen Leath Verified by: _____ Date: 7-20-17

Comments: _____

4"

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID MW-131T Sample Time 1220

Field Personnel CE, BR, FD Sample Date 7/20/17

Weather Conditions SUNNY Air Temperature (°F) 90

Total Depth (ft.) 66.00 (from well log) LWC: 38.82

Depth to Static Water Surface (ft.) 27.18

Calculated Well Volume (1 casing volume) (gal.) 26

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 130

Measured Flow Rate (gal/min) 1.0

Calculated Pumping Time (length of time in minutes) 130

Actual Pumping Time (length of time in minutes) 120

Check-back Time 0910

Recovery Time (if needed) NA

pH Calibration During Purging (4.0, 10) (circle two) Actual Reading 4.01/7.01 pH

pH Calibration During Sampling (4.0, 10) (circle two) Actual Reading 4.01/7.01 pH 7/20/17 Date

Purge Start Time	0840	Purge Stop Time	1220
Purge Date	7/20/17	Total Gallons Purged	78
Purge Method	MW		

	Well Volume Units	Initial	1	2	3	4	5
Volume Purged	gal.	—	26	52	78		
Time	-	0840	1005	1105	1220		
Temperature	°C	20.6	21.5	21.3	21.2		
pH	Std. units	5.48	6.15	6.14	6.18		
Conductivity	µmhos/cm	110	130	130	120		
Turbidity	NTUs	—	—	—	1.48		

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☐ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☐
VOC	Yes ☑ No ☐	Cyanide (NaOH)	Yes ☐ No ☐
Metals (HNO_3)	Yes ☑ No ☐	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☐
Rinsate Blank	Yes ☐ No ☑	Field Blank	Yes ☐ No ☐
Metals verified (<2 pH)	Yes ☑ No ☐	(10% of samples verified per SAP)	

pH <2

4"

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID MW-132T Sample Time 1135

Field Personnel CE, [illegible], FO Sample Date 7/20/17

Weather Conditions Sunny Air Temperature (°F) 90

Total Depth (ft.) 64.00 (from well log) LUC: 36.91

Depth to Static Water Surface (ft.) 27.09

Calculated Well Volume (1 casing volume) (gal.) 25

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 125

Measured Flow Rate (gal/min) 1.0

Calculated Pumping Time (length of time in minutes) 125

Actual Pumping Time (length of time in minutes) 165

Check-back Time 0920

Recovery Time (if needed) NA

pH Calibration During Purging (4, 7, 10) (circle two) Actual Reading 4.01/7.01 pH

pH Calibration During Sampling (4, 7, 10) (circle two) Actual Reading 4.01/7.01 pH 7/20/17 Date

Purge Start Time	0850	Purge Stop Time	1135
Purge Date	7/20/17	Total Gallons Purged	75
Purge Method	NW		

	Well Volume Units	Initial	1	2	3	4	5
Volume Purged	gal.	—	25	50	75		
Time	-	0850	0945	1050	1135		
Temperature	°C	20.4	21.5	21.7	21.2		
pH	Std. units	5.60	6.26	6.23	6.17		
Conductivity	µmhos/cm	120	130	130	130		
Turbidity	NTUs	—	—	—	2.23		

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☐ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☐
VOC	Yes ☐ No ☐	Cyanide (NaOH)	Yes ☐ No ☐
Metals (HNO_3)	Yes ☐ No ☐	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☐
Rinsate Blank	Yes ☐ No ☐	Field Blank	Yes ☐ No ☐
Metals verified (<2 pH)	Yes ☐ No ☐	(10% of samples verified per SAP)	

pH 2

FB @ 1140

4"

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID MW-049T Sample Time 1315

Field Personnel CE, BR, FO Sample Date 7/20/17

Weather Conditions SUNNY Air Temperature (°F) 95

Total Depth (ft.) 65.00 (from well log) LUX: 26.8

Depth to Static Water Surface (ft.) 38.20

Calculated Well Volume (1 casing volume) (gal.) 18

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 90

Measured Flow Rate (gal/min) 1.0

Calculated Pumping Time (length of time in minutes) 90

Actual Pumping Time (length of time in minutes) 135

Check-back Time

Recovery Time (if needed) NA

pH Calibration During Purging (4.0, 7.0, 10) (circle two) Actual Reading 4.01/7.01 pH

pH Calibration During Sampling (4.0, 7.0, 10) (circle two) Actual Reading 4.0/7.1 pH 7/20/17 Date

Purge Start Time	1100	Purge Stop Time	1315
Purge Date	7/20/17	Total Gallons Purged	54
Purge Method	WW		

	Well Volume Units	Initial	1	2	3	4	5
Volume Purged	gal.	—	18	36	54		
Time	-	1100	1130	1210	~~1315~~ 1315		
Temperature	°C	20.8	21.4	21.3	21.9		
pH	Std. units	6.12	5.93	6.05	6.04		
Conductivity	µmhos/cm	120	110	110	110		
Turbidity	NTUs	—	—	—	2.85		

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☑ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☑
VOC	Yes ☑ No ☐	Cyanide (NaOH)	Yes ☐ No ☑
Metals (HNO_3)	Yes ☑ No ☐	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☑
Rinsate Blank	Yes ☐ No ☑	Field Blank	Yes ☒ No ☑
Metals verified (<2 pH)	Yes ☑ No ☐ (10% of samples verified per SAP)		

pH<2

~~FB @ 1140~~

4"

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID MW-034 Sample Time 1150

Field Personnel CE, BR, FO Sample Date 7/20/17

Weather Conditions SUNNY Air Temperature (°F) 90

Total Depth (ft.) 132.00 (from well log) TWC: 72.62

Depth to Static Water Surface (ft.) 59.38

Calculated Well Volume (1 casing volume) (gal.) 48

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 240

Measured Flow Rate (gal/min) 1.0

Calculated Pumping Time (length of time in minutes) 240

Actual Pumping Time (length of time in minutes) ~~95~~ 155

Check-back Time 1015

Recovery Time (if needed) NA

pH Calibration During Purging (4, 7, 10) (circle two) Actual Reading 4.01/7.01 pH

pH Calibration During Sampling (4, 7, 10) (circle two) Actual Reading 4.01/7.01 pH 7/20/17 Date

Purge Start Time	0915	Purge Stop Time	1150
Purge Date	7/20/17	Total Gallons Purged	144
Purge Method	WM		

	Well Volume Units	Initial	1	2	3	4	5
Volume Purged	gal.	—	48	96	144		
Time	-	0915	1020	1115	1150		
Temperature	°C	21.7	21.3	21.7	22.2		
pH	Std. units	5.80	6.17	6.89	6.81		
Conductivity	µmhos/cm	120	150	130	120		
Turbidity	NTUs	—	—	—	175		

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☑ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☑
VOC	Yes ☑ No ☐	Cyanide (NaOH)	Yes ☐ No ☑
Metals (HNO_3)	Yes ☑ No ☐	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☑
Rinsate Blank	Yes ☐ No ☑	Field Blank	Yes ☐ No ☑
Metals verified (<2 pH)	Yes ☑ No ☐	(10% of samples verified per SAP)	

4"

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID UBC022AR Sample Time 1325

Field Personnel CE, BR, FO Sample Date 7/20/17

Weather Conditions SUNNY Air Temperature (°F) 90

Total Depth (ft.) 113.00 (from well log) LWC: 58.85

Depth to Static Water Surface (ft.) 54.15

Calculated Well Volume (1 casing volume) (gal.) 39

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 195

Measured Flow Rate (gal/min) 1.0

Calculated Pumping Time (length of time in minutes) 195

Actual Pumping Time (length of time in minutes) 150

Check-back Time 0930

Recovery Time (if needed) 2

pH Calibration During Purging (4, 7, 10) (circle two) Actual Reading 4.01/7.01 pH

pH Calibration During Sampling (4, 7, 10) (circle two) Actual Reading 4.01/7.01 pH 7/20/17 Date

Purge Start Time	0830	Purge Stop Time	1100
Purge Date	7/~~19~~20/17	Total Gallons Purged	39
Purge Method	WW		

	Well Volume Units	Initial	1	2	3	4	5
Volume Purged	gal.	—			@SAMPLE		
Time	-	0830			1325		
Temperature	°C	20.7			22.1		
pH	Std. units	6.34			6.54		
Conductivity	µmhos/cm	110			116		
Turbidity	NTUs	—			2.24		

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☑ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☑
VOC	Yes ☑ No ☐	Cyanide (NaOH)	Yes ☐ No ☑
Metals (HNO_3)	Yes ☑ No ☐	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☑
Rinsate Blank	Yes ☐ No ☑	Field Blank	Yes ☐ No ☑
Metals verified (<2 pH)	Yes ☑ No ☐ (10% of samples verified per SAP)		

pH<2

4''

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID MW133T Sample Time 1255

Field Personnel CB, BR, FO Sample Date 7/20/17

Weather Conditions Partly cloudy Air Temperature (°F) 92

Total Depth (ft.) 69 (from well log) 39.36

Depth to Static Water Surface (ft.) 29.64

Calculated Well Volume (1 casing volume) (gal.) 26

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 130

Measured Flow Rate (gal/min) 0.5

Calculated Pumping Time (length of time in minutes) 260

Actual Pumping Time (length of time in minutes) 38

Check-back Time 1345

Recovery Time (if needed) 24

pH Calibration During Purging (4.00 / 7.00 / 10) (circle two) Actual Reading 4.01 / 7.01 pH

pH Calibration During Sampling (4.00 / 7.00 / 10) (circle two) Actual Reading 4.01 / 7.01 pH 7/20/17 Date

Purge Start Time	1312	Purge Stop Time	1350	
Purge Date	7/19/17	Total Gallons Purged	26 (dry)	
Purge Method	WM			

	Well Volume Units	Initial	1	2	3	4	5
Volume Purged	gal.	—			@ sample		
Time	-	1312			1255		
Temperature	°C	22.5			22.8		
pH	Std. units	6.21			6.14		
Conductivity	µmhos/cm	120			130		
Turbidity	NTUs	—			23.2		

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☑ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☑
VOC	Yes ☑ No ☐	Cyanide (NaOH)	Yes ☐ No ☑
Metals (HNO_3)	Yes ☑ No ☐	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☑
Rinsate Blank	Yes ☐ No ☑	Field Blank	Yes ☐ No ☑
Metals verified (<2 pH)	Yes ☑ No ☐	(10% of samples verified per SAP)	

#42

4 6

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID MW134T Sample Time 1240

Field Personnel CE, BE Sample Date 7/20/17

Weather Conditions Sunny Air Temperature (°F) 90

Total Depth (ft.) 74 (from well log)

Depth to Static Water Surface (ft.) 39.68 34.32

Calculated Well Volume (1 casing volume) (gal.) 23

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 115

Measured Flow Rate (gal/min) 0.5

Calculated Pumping Time (length of time in minutes) 230

Actual Pumping Time (length of time in minutes) 55

Check-back Time 1445

Recovery Time (if needed) 4

pH Calibration During Purging (4, 7, 10) (circle two) Actual Reading 4.04 / 7.01 pH

pH Calibration During Sampling (4, 7, 10) (circle two) Actual Reading 4.01 / 7.01 pH 7/20/17 Date

Purge Start Time	1420	Purge Stop Time	1515
Purge Date	7/19/17	Total Gallons Purged	23 (DUP)
Purge Method	WW		

	Well Volume Units	Initial	1	2	3	4	5
Volume Purged	gal.	—			(Sample		
Time	-	1420			1240		
Temperature	°C	21.8			22.3		
pH	Std. units	6.74			6.75		
Conductivity	µmhos/cm	190			170		
Turbidity	NTUs	—			2.65		

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☒ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☒
VOC	Yes ☒ No ☐	Cyanide (NaOH)	Yes ☐ No ☒
Metals (HNO_3)	Yes ☒ No ☐	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☒
Rinsate Blank	Yes ☐ No ☒	Field Blank	Yes ☐ No ☒
Metals verified (<2 pH)	Yes ☒ No ☐ (10% of samples verified per SAP)		

pH < 2

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID MW04 & TR Sample Time 1350

Field Personnel CB/BR, FO Sample Date 7/20/17

Weather Conditions OVERCAST Air Temperature (°F) 95

Total Depth (ft.) 65 (from well log) 23.59

Depth to Static Water Surface (ft.) 41.41

Calculated Well Volume (1 casing volume) (gal.) 16

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 80

Measured Flow Rate (gal/min) 0.5

Calculated Pumping Time (length of time in minutes) 160

Actual Pumping Time (length of time in minutes) 45

Check-back Time 1350

Recovery Time (if needed) 24

pH Calibration During Purging (4) (7) 10) (circle two) Actual Reading 4.01/7.01 pH

pH Calibration During Sampling (4) (7) 10) (circle two) Actual Reading 4.01/7.01 pH 7/20/17 Date

Purge Start Time	1325	Purge Stop Time	1410
Purge Date	7/19/17	Total Gallons Purged	16 (DRY)
Purge Method	PP		

	Well Volume Units	Initial	1	2	3	4	5
Volume Purged	gal.	—			@SAMPLE		
Time	-	1325			1356		
Temperature	°C	22.4			24.2		
pH	Std. units	5.99			6.26		
Conductivity	µmhos/cm	150			130		
Turbidity	NTUs	—			6.39		

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☒ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☒
VOC	Yes ☒ No ☐	Cyanide (NaOH)	Yes ☐ No ☒
Metals (HNO_3)	Yes ☒ No ☐	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☒
Rinsate Blank	Yes ☐ No ☒	Field Blank	Yes ☐ No ☒
Metals verified (<2 pH)	Yes ☐ No ☒	(10% of samples verified per SAP)	

2

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID MW 142 T Sample Time 1415

Field Personnel CE, BR, FO Sample Date 7/20/17

Weather Conditions PARTLY CLOUDY Air Temperature (°F) 90

Total Depth (ft.) 88 (from well log)

Depth to Static Water Surface (ft.) 54.94 33.06

Calculated Well Volume (1 casing volume) (gal.) 6

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 30

Measured Flow Rate (gal/min) 0.5

Calculated Pumping Time (length of time in minutes) 60

Actual Pumping Time (length of time in minutes) 15

Check-back Time 1410

Recovery Time (if needed) 24

pH Calibration During Purging (~~4~~, 7, 10) (circle two) Actual Reading 4.01 / 7.01 pH

pH Calibration During Sampling (~~4~~, 7, 10) (circle two) Actual Reading 4.01 / 7.01 pH 7/20/17 Date

Purge Start Time	1400	Purge Stop Time	1415	
Purge Date	7/19/17	Total Gallons Purged	6 (DRY)	
Purge Method	MW			

	Well Volume Units	Initial	1	2	3	4	5
Volume Purged	gal.	—			(Sample)		
Time	-	1400			1415		
Temperature	°C	22.6			24.0		
pH	Std. units	5.74			5.85		
Conductivity	µmhos/cm	130			120		
Turbidity	NTUs	—			5.35		

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☒ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☒
VOC	Yes ☒ No ☐	Cyanide (NaOH)	Yes ☐ No ☒
Metals (HNO_3)	Yes ☒ No ☐	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☒
Rinsate Blank	Yes ☐ No ☒	Field Blank	Yes ☐ No ☒
Metals verified (<2 pH)	Yes ☐ No ☒	(10% of samples verified per SAP)	

4 11

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID MW 016 TR Sample Time 1335

Field Personnel CE/BR/FO Sample Date 7/20/17

Weather Conditions Partly cloudy Air Temperature (°F) 90

Total Depth (ft.) 49 (from well log) 21.79

Depth to Static Water Surface (ft.) 27.21

Calculated Well Volume (1 casing volume) (gal.) 14

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 70

Measured Flow Rate (gal/min) 0.5

Calculated Pumping Time (length of time in minutes) 140

Actual Pumping Time (length of time in minutes) 65

Check-back Time

Recovery Time (if needed) 24

pH Calibration During Purging (4.00 7.00 10.00) (circle two) Actual Reading 4.01/7.01 pH

pH Calibration During Sampling (4.00 7.00 10.00) (circle two) Actual Reading 4.01/7.01 pH 7/20/17 Date

Purge Start Time	1305	Purge Stop Time	1410	
Purge Date	7/19/17	Total Gallons Purged	14 (DRY)	
Purge Method	MP			

	Well Volume Units	Initial	1	2	3	4	5
Volume Purged	gal.	—			@Sample		
Time	-	1305			1335		
Temperature	°C	22.3			22.10		
pH	Std. units	6.09			6.05		
Conductivity	µmhos/cm	180			170		
Turbidity	NTUs	—			1.63		

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☒ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☒
VOC	Yes ☒ No ☐	Cyanide (NaOH)	Yes ☐ No ☒
Metals (HNO_3)	Yes ☒ No ☐	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☒
Rinsate Blank	Yes ☐ No ☒	Field Blank	Yes ☐ No ☒
Metals verified (<2 pH)	Yes ☐ No ☒	(10% of samples verified per SAP)	

4"

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID MW 031 TR Sample Time 1425

Field Personnel CS, BR, FO Sample Date 7/20/17

Weather Conditions PARTLY CLOUDY Air Temperature (°F) 90

Total Depth (ft.) 57 (from well log)

Depth to Static Water Surface (ft.) 28.80 28.26

Calculated Well Volume (1 casing volume) (gal.) 19

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 95

Measured Flow Rate (gal/min) 0.5

Calculated Pumping Time (length of time in minutes) 190

Actual Pumping Time (length of time in minutes) 55

Check-back Time 1250

Recovery Time (if needed) 24

pH Calibration During Purging (4, 7, 10) (circle two) Actual Reading 4.01/7.01 pH

pH Calibration During Sampling (4, 7, 10) (circle two) Actual Reading 4.01/7.01 pH 7/20/17 Date

Purge Start Time	1220	Purge Stop Time	1315
Purge Date	7/19/17	Total Gallons Purged	19 (DRY)
Purge Method	WM		

	Well Volume Units	Initial	1	2	3	4	5
Volume Purged	gal.	—			(3) sample		
Time	-	1220			1425		
Temperature	°C	22.4			22.5		
pH	Std. units	6.08			5.92		
Conductivity	µmhos/cm	120			110		
Turbidity	NTUs	—			9.02		

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☑ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☑
VOC	Yes ☑ No ☐	Cyanide (NaOH)	Yes ☐ No ☑
Metals (HNO_3)	Yes ☑ No ☐	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☑
Rinsate Blank	Yes ☐ No ☑	Field Blank	Yes ☐ No ☑
Metals verified (<2 pH)	Yes ☐ No ☑	(10% of samples verified per SAP)	

2 "

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID MW033 Sample Time 1310

Field Personnel CE, FO, BR Sample Date 7/20/17

Weather Conditions Sunny Air Temperature (°F) 92

Total Depth (ft.) 63.5 (from well log) 32.95

Depth to Static Water Surface (ft.) 30.55

Calculated Well Volume (1 casing volume) (gal.) 6

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 30

Measured Flow Rate (gal/min) 0.5

Calculated Pumping Time (length of time in minutes) 60

Actual Pumping Time (length of time in minutes) 20

Check-back Time 1330

Recovery Time (if needed) NA

pH Calibration During Purging (4, 7, 10) (circle two) Actual Reading 4.01/7.01 pH

pH Calibration During Sampling (4, 7, 10) (circle two) Actual Reading 4.01/7.01 pH 7/20/17 Date

Purge Start Time	1320	Purge Stop Time	1340
Purge Date	7/19/17	Total Gallons Purged	6 (DUP)
Purge Method	WM		

	Well Volume Units	Initial	1	2	3	4	5
Volume Purged	gal.	-			(Sample)		
Time	-	1320			1310		
Temperature	°C	22.1			22.5		
pH	Std. units	6.05			6.23		
Conductivity	µmhos/cm	140			140		
Turbidity	NTUs	-			5.41		

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☑ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☑
VOC	Yes ☑ No ☐	Cyanide (NaOH)	Yes ☐ No ☑
Metals (HNO_3)	Yes ☐ No ☐	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☑
Rinsate Blank	Yes ☐ No ☑	Field Blank	Yes ☐ No ☑
Metals verified (<2 pH)	Yes ☑ No ☐ (10% of samples verified per SAP)		

pH <2

SHEALY ENVIRONMENTAL SERVICES, INC.

Report of Analysis

Smith Gardner, Inc.
14 North Boylan Avenue
Raleigh, NC 27603
Attention: Kevin Anderson

Project Name: Pinewood LF GW (Detection Monitoring)

Lot Number:**SG21101**

Date Completed:08/02/2017

08/03/2017 2:38 PM
Approved and released by:
Project Manager: Kelly M. Nance

The electronic signature above is the equivalent of a handwritten signature.

Shealy Environmental Services, Inc.
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Case Narrative
Smith Gardner, Inc.
Lot Number: SG21101

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

Sample Summary
Smith Gardner, Inc.
Lot Number: SG21101

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	MW005A	Aqueous	07/21/2017 0930	07/21/2017
002	MW127T	Aqueous	07/21/2017 0945	07/21/2017
003	MW019A	Aqueous	07/21/2017 1005	07/21/2017
004	MW020A	Aqueous	07/21/2017 1025	07/21/2017
005	MW143T	Aqueous	07/21/2017 1035	07/21/2017
006	UBC015AR	Aqueous	07/21/2017 1200	07/21/2017
007	MW089T	Aqueous	07/21/2017 1245	07/21/2017
008	UBC026	Aqueous	07/21/2017 1050	07/21/2017
009	UBC024	Aqueous	07/21/2017 1230	07/21/2017
010	Field Blank	Aqueous	07/21/2017 0955	07/21/2017
011	Trip Blank	Aqueous	07/21/2017	07/21/2017

(11 samples)

Detection Summary

Smith Gardner, Inc.

Lot Number: SG21101

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	MW005A	Aqueous	TDS	SM 2540C-	190		mg/L	5
001	MW005A	Aqueous	Barium	6010D	0.069		mg/L	8
002	MW127T	Aqueous	Chloride	300.0	2.1		mg/L	10
002	MW127T	Aqueous	TDS	SM 2540C-	170		mg/L	10
003	MW019A	Aqueous	TDS	SM 2540C-	200		mg/L	15
003	MW019A	Aqueous	Barium	6010D	0.077		mg/L	18
004	MW020A	Aqueous	Chloride	300.0	3.4		mg/L	20
004	MW020A	Aqueous	TDS	SM 2540C-	280		mg/L	20
004	MW020A	Aqueous	Barium	6010D	0.026		mg/L	23
005	MW143T	Aqueous	TDS	SM 2540C-	150		mg/L	25
005	MW143T	Aqueous	Barium	6010D	0.081		mg/L	28
006	UBC015AR	Aqueous	Chloride	300.0	2.6		mg/L	30
006	UBC015AR	Aqueous	TDS	SM 2540C-	99		mg/L	30
006	UBC015AR	Aqueous	Barium	6010D	0.12		mg/L	33
007	MW089T	Aqueous	Chloride	300.0	2.6		mg/L	35
007	MW089T	Aqueous	TDS	SM 2540C-	180		mg/L	35
007	MW089T	Aqueous	Barium	6010D	0.14		mg/L	38
008	UBC026	Aqueous	Chloride	300.0	2.9		mg/L	40
008	UBC026	Aqueous	TDS	SM 2540C-	150		mg/L	40
008	UBC026	Aqueous	Barium	6010D	0.087		mg/L	43
009	UBC024	Aqueous	Chloride	300.0	2.7		mg/L	45
009	UBC024	Aqueous	TDS	SM 2540C-	120		mg/L	45
009	UBC024	Aqueous	Barium	6010D	0.089		mg/L	48

(23 detections)

Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SG21101-001
Description: MW005A
Matrix: Aqueous
Date Sampled: 07/21/2017 0930
Date Received: 07/21/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	07/21/2017 0930	CAE		
1		(Specific Con) 120.1	1	07/21/2017 0930	CAE		
1		(Temperature) SM 2550B-2010	1	07/21/2017 0930	CAE		
1		(Turbidity -) 180.1	1	07/21/2017 0930	CAE		
1		(Chloride) 300.0	1	07/29/2017 0024	KWP		47815
1		(TDS) SM 2540C-2011	1	07/26/2017 1606	AJG		47523

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	6.56			su	1
Specific Conductance - Field		120.1	150		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	23.3			° C	1
Turbidity - Field		180.1	12		1.0	NTU	1
Chloride		300.0	ND		2.0	mg/L	1
TDS		SM 2540C-20	190		10	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SG21101-001
Description: MW005A
Matrix: Aqueous
Date Sampled: 07/21/2017 0930
Date Received: 07/21/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	07/26/2017 1411	ECB		47558

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		97	70-130

LOQ = Limit of Quantitation
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E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG21101-001
Description: MW005A
Matrix: Aqueous
Date Sampled: 07/21/2017 0930
Date Received: 07/21/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/24/2017 1637	JM1		47302

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		95	70-130
Bromofluorobenzene		104	70-130
Toluene-d8		102	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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ICP-AES Metals

Client: Smith Gardner, Inc.
Laboratory ID: SG21101-001
Description: MW005A
Matrix: Aqueous
Date Sampled: 07/21/2017 0930
Date Received: 07/21/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010D	1	07/29/2017 0535	DDD	07/22/2017 1256	47242

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	7440-39-3	6010D	0.069		0.025	mg/L	1
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	ND		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	1
Nickel	7440-02-0	6010D	ND		0.040	mg/L	1
Zinc	7440-66-6	6010D	ND		0.020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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CVAA

Client: Smith Gardner, Inc.
Laboratory ID: SG21101-001
Description: MW005A
Matrix: Aqueous
Date Sampled: 07/21/2017 0930
Date Received: 07/21/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	07/27/2017 0328	SLS	07/26/2017 2236	47599

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury	7439-97-6	7470A	ND		0.00020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SG21101-002
Description: MW127T
Matrix: Aqueous
Date Sampled: 07/21/2017 0945
Date Received: 07/21/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	07/21/2017 0945	CAE		
1		(Specific Con) 120.1	1	07/21/2017 0945	CAE		
1		(Temperature) SM 2550B-2010	1	07/21/2017 0945	CAE		
1		(Turbidity -) 180.1	1	07/21/2017 0945	CAE		
1		(Chloride) 300.0	1	07/29/2017 0049	KWP		47815
1		(TDS) SM 2540C-2011	1	07/26/2017 1606	AJG		47523

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	6.13			su	1
Specific Conductance - Field		120.1	140		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	23.3			° C	1
Turbidity - Field		180.1	3.7		1.0	NTU	1
Chloride		300.0	2.1		2.0	mg/L	1
TDS		SM 2540C-20	170		10	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

Shealy Environmental Services, Inc.
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Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SG21101-002
Description: MW127T
Matrix: Aqueous
Date Sampled: 07/21/2017 0945
Date Received: 07/21/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	07/26/2017 1436	ECB		47558

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		100	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG21101-002
Description: MW127T
Matrix: Aqueous
Date Sampled: 07/21/2017 0945
Date Received: 07/21/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/24/2017 1659	JM1		47302

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		95	70-130
Bromofluorobenzene		104	70-130
Toluene-d8		104	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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ICP-AES Metals

Client: Smith Gardner, Inc.
Laboratory ID: SG21101-002
Description: MW127T
Matrix: Aqueous
Date Sampled: 07/21/2017 0945
Date Received: 07/21/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010D	1	07/29/2017 0539	DDD	07/22/2017 1256	47242

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	7440-39-3	6010D	ND		0.025	mg/L	1
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	ND		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	1
Nickel	7440-02-0	6010D	ND		0.040	mg/L	1
Zinc	7440-66-6	6010D	ND		0.020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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CVAA

Client: Smith Gardner, Inc.
Laboratory ID: SG21101-002
Description: MW127T
Matrix: Aqueous
Date Sampled: 07/21/2017 0945
Date Received: 07/21/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	07/27/2017 0331	SLS	07/26/2017 2236	47599

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury	7439-97-6	7470A	ND		0.00020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SG21101-003
Description: MW019A
Matrix: Aqueous
Date Sampled: 07/21/2017 1005
Date Received: 07/21/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	07/21/2017 1005	CAE		
1		(Specific Con) 120.1	1	07/21/2017 1005	CAE		
1		(Temperature) SM 2550B-2010	1	07/21/2017 1005	CAE		
1		(Turbidity -) 180.1	1	07/21/2017 1005	CAE		
1		(Chloride) 300.0	1	07/29/2017 0114	KWP		47815
1		(TDS) SM 2540C-2011	1	07/26/2017 1606	AJG		47523

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	6.5			su	1
Specific Conductance - Field		120.1	140		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	22.2			° C	1
Turbidity - Field		180.1	4.0		1.0	NTU	1
Chloride		300.0	ND		2.0	mg/L	1
TDS		SM 2540C-20	200		10	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SG21101-003
Description: MW019A
Matrix: Aqueous
Date Sampled: 07/21/2017 1005
Date Received: 07/21/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	07/26/2017 1501	ECB		47558

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		100	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

Shealy Environmental Services, Inc.
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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG21101-003
Description: MW019A
Matrix: Aqueous
Date Sampled: 07/21/2017 1005
Date Received: 07/21/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/24/2017 1721	JM1		47302

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		93	70-130
Bromofluorobenzene		101	70-130
Toluene-d8		102	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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ICP-AES Metals

Client: Smith Gardner, Inc.
Laboratory ID: SG21101-003
Description: MW019A
Matrix: Aqueous
Date Sampled: 07/21/2017 1005
Date Received: 07/21/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010D	1	07/29/2017 0544	DDD	07/22/2017 1256	47242

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	7440-39-3	6010D	0.077		0.025	mg/L	1
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	ND		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	1
Nickel	7440-02-0	6010D	ND		0.040	mg/L	1
Zinc	7440-66-6	6010D	ND		0.020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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CVAA

Client: Smith Gardner, Inc.
Laboratory ID: SG21101-003
Description: MW019A
Matrix: Aqueous
Date Sampled: 07/21/2017 1005
Date Received: 07/21/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	07/27/2017 0338	SLS	07/26/2017 2236	47599

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury	7439-97-6	7470A	ND		0.00020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SG21101-004
Description: MW020A
Matrix: Aqueous
Date Sampled: 07/21/2017 1025
Date Received: 07/21/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	07/21/2017 1025	CAE		
1		(Specific Con) 120.1	1	07/21/2017 1025	CAE		
1		(Temperature) SM 2550B-2010	1	07/21/2017 1025	CAE		
1		(Turbidity -) 180.1	1	07/21/2017 1025	CAE		
1		(Chloride) 300.0	1	07/29/2017 0229	KWP		47815
1		(TDS) SM 2540C-2011	1	07/27/2017 1600	AJG		47634

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	6.13			su	1
Specific Conductance - Field		120.1	180		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	24.3			° C	1
Turbidity - Field		180.1	2.9		1.0	NTU	1
Chloride		300.0	3.4		2.0	mg/L	1
TDS		SM 2540C-20	280		10	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SG21101-004
Description: MW020A
Matrix: Aqueous
Date Sampled: 07/21/2017 1025
Date Received: 07/21/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	07/26/2017 1525	ECB		47558

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		100	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG21101-004
Description: MW020A
Matrix: Aqueous
Date Sampled: 07/21/2017 1025
Date Received: 07/21/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/24/2017 1743	JM1		47302

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		94	70-130
Bromofluorobenzene		101	70-130
Toluene-d8		101	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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ICP-AES Metals

Client: Smith Gardner, Inc.
Laboratory ID: SG21101-004
Description: MW020A
Matrix: Aqueous
Date Sampled: 07/21/2017 1025
Date Received: 07/21/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010D	1	07/29/2017 0557	DDD	07/22/2017 1256	47242

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	7440-39-3	6010D	0.026		0.025	mg/L	1
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	ND		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	1
Nickel	7440-02-0	6010D	ND		0.040	mg/L	1
Zinc	7440-66-6	6010D	ND		0.020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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CVAA

Client: Smith Gardner, Inc.
Laboratory ID: SG21101-004
Description: MW020A
Matrix: Aqueous
Date Sampled: 07/21/2017 1025
Date Received: 07/21/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	07/27/2017 0340	SLS	07/26/2017 2236	47599

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury	7439-97-6	7470A	ND		0.00020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SG21101-005
Description: MW143T
Matrix: Aqueous
Date Sampled: 07/21/2017 1035
Date Received: 07/21/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	07/21/2017 1035	CAE		
1		(Specific Con) 120.1	1	07/21/2017 1035	CAE		
1		(Temperature) SM 2550B-2010	1	07/21/2017 1035	CAE		
1		(Turbidity -) 180.1	1	07/21/2017 1035	CAE		
1		(Chloride) 300.0	1	07/29/2017 0254	KWP		47815
1		(TDS) SM 2540C-2011	1	07/26/2017 1826	AJG		47559

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	6.01			su	1
Specific Conductance - Field		120.1	120		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	24.6			° C	1
Turbidity - Field		180.1	3.4		1.0	NTU	1
Chloride		300.0	ND		2.0	mg/L	1
TDS		SM 2540C-20	150		10	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SG21101-005
Description: MW143T
Matrix: Aqueous
Date Sampled: 07/21/2017 1035
Date Received: 07/21/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	07/26/2017 1550	ECB		47558

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		101	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG21101-005
Description: MW143T
Matrix: Aqueous
Date Sampled: 07/21/2017 1035
Date Received: 07/21/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/24/2017 1805	JM1		47302

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		94	70-130
Bromofluorobenzene		103	70-130
Toluene-d8		101	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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ICP-AES Metals

Client: Smith Gardner, Inc.
Laboratory ID: SG21101-005
Description: MW143T
Matrix: Aqueous
Date Sampled: 07/21/2017 1035
Date Received: 07/21/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010D	1	07/29/2017 0601	DDD	07/22/2017 1256	47242

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	7440-39-3	6010D	0.081		0.025	mg/L	1
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	ND		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	1
Nickel	7440-02-0	6010D	ND		0.040	mg/L	1
Zinc	7440-66-6	6010D	ND		0.020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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CVAA

Client: Smith Gardner, Inc.
Laboratory ID: SG21101-005
Description: MW143T
Matrix: Aqueous
Date Sampled: 07/21/2017 1035
Date Received: 07/21/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	07/27/2017 0348	SLS	07/26/2017 2236	47599

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury	7439-97-6	7470A	ND		0.00020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SG21101-006
Description: UBC015AR
Matrix: Aqueous
Date Sampled: 07/21/2017 1200
Date Received: 07/21/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	07/21/2017 1200	CAE		
1		(Specific Con) 120.1	1	07/21/2017 1200	CAE		
1		(Temperature) SM 2550B-2010	1	07/21/2017 1200	CAE		
1		(Turbidity -) 180.1	1	07/21/2017 1200	CAE		
1		(Chloride) 300.0	1	07/29/2017 0319	KWP		47815
1		(TDS) SM 2540C-2011	1	07/26/2017 1826	AJG		47559

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	8.83			su	1
Specific Conductance - Field		120.1	110		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	23.2			° C	1
Turbidity - Field		180.1	5.5		1.0	NTU	1
Chloride		300.0	2.6		2.0	mg/L	1
TDS		SM 2540C-20	99		10	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SG21101-006
Description: UBC015AR
Matrix: Aqueous
Date Sampled: 07/21/2017 1200
Date Received: 07/21/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	07/26/2017 1614	ECB		47558

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		98	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG21101-006
Description: UBC015AR
Matrix: Aqueous
Date Sampled: 07/21/2017 1200
Date Received: 07/21/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/25/2017 1203	TML		47401

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		92	70-130
Bromofluorobenzene		101	70-130
Toluene-d8		100	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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ICP-AES Metals

Client: Smith Gardner, Inc.
Laboratory ID: SG21101-006
Description: UBC015AR
Matrix: Aqueous
Date Sampled: 07/21/2017 1200
Date Received: 07/21/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010D	1	07/29/2017 0606	DDD	07/22/2017 1256	47242

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	7440-39-3	6010D	0.12		0.025	mg/L	1
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	ND		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	1
Nickel	7440-02-0	6010D	ND		0.040	mg/L	1
Zinc	7440-66-6	6010D	ND		0.020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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CVAA

Client: Smith Gardner, Inc.
Laboratory ID: SG21101-006
Description: UBC015AR
Matrix: Aqueous
Date Sampled: 07/21/2017 1200
Date Received: 07/21/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	07/27/2017 0350	SLS	07/26/2017 2236	47599

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury	7439-97-6	7470A	ND		0.00020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

Shealy Environmental Services, Inc.
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Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SG21101-007
Description: MW089T
Matrix: Aqueous
Date Sampled: 07/21/2017 1245
Date Received: 07/21/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	07/21/2017 1245	CAE		
1		(Specific Con) 120.1	1	07/21/2017 1245	CAE		
1		(Temperature) SM 2550B-2010	1	07/21/2017 1245	CAE		
1		(Turbidity -) 180.1	1	07/21/2017 1245	CAE		
1		(Chloride) 300.0	1	07/29/2017 0344	KWP		47815
1		(TDS) SM 2540C-2011	1	07/26/2017 1826	AJG		47559

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	6.43			su	1
Specific Conductance - Field		120.1	100		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	23.1			° C	1
Turbidity - Field		180.1	3.7		1.0	NTU	1
Chloride		300.0	2.6		2.0	mg/L	1
TDS		SM 2540C-20	180		10	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SG21101-007
Description: MW089T
Matrix: Aqueous
Date Sampled: 07/21/2017 1245
Date Received: 07/21/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	07/26/2017 1639	ECB		47558

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		99	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG21101-007
Description: MW089T
Matrix: Aqueous
Date Sampled: 07/21/2017 1245
Date Received: 07/21/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/25/2017 1225	TML		47401

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		94	70-130
Bromofluorobenzene		102	70-130
Toluene-d8		100	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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ICP-AES Metals

Client: Smith Gardner, Inc.
Laboratory ID: SG21101-007
Description: MW089T
Matrix: Aqueous
Date Sampled: 07/21/2017 1245
Date Received: 07/21/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010D	1	07/29/2017 0610	DDD	07/22/2017 1256	47242

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	7440-39-3	6010D	0.14		0.025	mg/L	1
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	ND		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	1
Nickel	7440-02-0	6010D	ND		0.040	mg/L	1
Zinc	7440-66-6	6010D	ND		0.020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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CVAA

Client: Smith Gardner, Inc.
Laboratory ID: SG21101-007
Description: MW089T
Matrix: Aqueous
Date Sampled: 07/21/2017 1245
Date Received: 07/21/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	07/27/2017 0353	SLS	07/26/2017 2236	47599

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury	7439-97-6	7470A	ND		0.00020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SG21101-008
Description: UBC026
Matrix: Aqueous
Date Sampled: 07/21/2017 1050
Date Received: 07/21/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	07/21/2017 1050	CAE		
1		(Specific Con) 120.1	1	07/21/2017 1050	CAE		
1		(Temperature) SM 2550B-2010	1	07/21/2017 1050	CAE		
1		(Turbidity -) 180.1	1	07/21/2017 1050	CAE		
1		(Chloride) 300.0	1	07/29/2017 0409	KWP		47815
1		(TDS) SM 2540C-2011	1	07/26/2017 1826	AJG		47559

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	7.33			su	1
Specific Conductance - Field		120.1	120		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	21.7			° C	1
Turbidity - Field		180.1	2.1		1.0	NTU	1
Chloride		300.0	2.9		2.0	mg/L	1
TDS		SM 2540C-20	150		10	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SG21101-008
Description: UBC026
Matrix: Aqueous
Date Sampled: 07/21/2017 1050
Date Received: 07/21/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	07/26/2017 1703	ECB		47558

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		102	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG21101-008
Description: UBC026
Matrix: Aqueous
Date Sampled: 07/21/2017 1050
Date Received: 07/21/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/25/2017 1246	TML		47401

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		93	70-130
Bromofluorobenzene		100	70-130
Toluene-d8		99	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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ICP-AES Metals

Client: Smith Gardner, Inc.
Laboratory ID: SG21101-008
Description: UBC026
Matrix: Aqueous
Date Sampled: 07/21/2017 1050
Date Received: 07/21/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010D	1	07/29/2017 0615	DDD	07/22/2017 1256	47242

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	7440-39-3	6010D	0.087		0.025	mg/L	1
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	ND		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	1
Nickel	7440-02-0	6010D	ND		0.040	mg/L	1
Zinc	7440-66-6	6010D	ND		0.020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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CVAA

Client: Smith Gardner, Inc.
Laboratory ID: SG21101-008
Description: UBC026
Matrix: Aqueous
Date Sampled: 07/21/2017 1050
Date Received: 07/21/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	07/27/2017 0355	SLS	07/26/2017 2236	47599

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury	7439-97-6	7470A	ND		0.00020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SG21101-009
Description: UBC024
Matrix: Aqueous
Date Sampled: 07/21/2017 1230
Date Received: 07/21/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	07/21/2017 1230	CAE		
1		(Specific Con) 120.1	1	07/21/2017 1230	CAE		
1		(Temperature) SM 2550B-2010	1	07/21/2017 1230	CAE		
1		(Turbidity -) 180.1	1	07/21/2017 1230	CAE		
1		(Chloride) 300.0	1	08/01/2017 0119	TAF		48122
1		(TDS) SM 2540C-2011	1	07/26/2017 1826	AJG		47559

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	7.32			su	1
Specific Conductance - Field		120.1	110		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	22.5			° C	1
Turbidity - Field		180.1	4.5		1.0	NTU	1
Chloride		300.0	2.7		2.0	mg/L	1
TDS		SM 2540C-20	120		10	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SG21101-009
Description: UBC024
Matrix: Aqueous
Date Sampled: 07/21/2017 1230
Date Received: 07/21/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	07/26/2017 1728	ECB		47558

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		101	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG21101-009
Description: UBC024
Matrix: Aqueous
Date Sampled: 07/21/2017 1230
Date Received: 07/21/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/25/2017 1308	TML		47401

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		95	70-130
Bromofluorobenzene		104	70-130
Toluene-d8		102	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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ICP-AES Metals

Client: Smith Gardner, Inc.
Laboratory ID: SG21101-009
Description: UBC024
Matrix: Aqueous
Date Sampled: 07/21/2017 1230
Date Received: 07/21/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010D	1	07/29/2017 0619	DDD	07/22/2017 1256	47242

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	7440-39-3	6010D	0.089		0.025	mg/L	1
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	ND		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	1
Nickel	7440-02-0	6010D	ND		0.040	mg/L	1
Zinc	7440-66-6	6010D	ND		0.020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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CVAA

Client: Smith Gardner, Inc.
Laboratory ID: SG21101-009
Description: UBC024
Matrix: Aqueous
Date Sampled: 07/21/2017 1230
Date Received: 07/21/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	07/27/2017 0358	SLS	07/26/2017 2236	47599

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury	7439-97-6	7470A	ND		0.00020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG21101-010
Description: Field Blank
Matrix: Aqueous
Date Sampled: 07/21/2017 0955
Date Received: 07/21/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/25/2017 1119	TML		47401

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		94	70-130
Bromofluorobenzene		103	70-130
Toluene-d8		101	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG21101-011
Description: Trip Blank
Matrix: Aqueous
Date Sampled: 07/21/2017
Date Received: 07/21/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/25/2017 1141	TML		47401

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		94	70-130
Bromofluorobenzene		103	70-130
Toluene-d8		101	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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QC Summary

Inorganic non-metals - MB

Sample ID: SQ47523-001
Batch: 47523
Analytical Method: SM 2540C-2011

Matrix: Aqueous

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
TDS	ND		1	10	mg/L	07/26/2017 1606

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - LCS

Sample ID: SQ47523-002
Batch: 47523
Analytical Method: SM 2540C-2011

Matrix: Aqueous

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
TDS	1500	1500		1	97	90-110	07/26/2017 1606

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - MB

Sample ID: SQ47559-001
Batch: 47559
Analytical Method: SM 2540C-2011

Matrix: Aqueous

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
TDS	ND		1	10	mg/L	07/26/2017 1826

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - LCS

Sample ID: SQ47559-002
Batch: 47559
Analytical Method: SM 2540C-2011

Matrix: Aqueous

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
TDS	1500	1500		1	100	90-110	07/26/2017 1826

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - MB

Sample ID: SQ47634-001
Batch: 47634
Analytical Method: SM 2540C-2011

Matrix: Aqueous

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
TDS	ND		1	10	mg/L	07/27/2017 1600

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - LCS

Sample ID: SQ47634-002
Batch: 47634
Analytical Method: SM 2540C-2011

Matrix: Aqueous

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
TDS	1500	1500		1	98	90-110	07/27/2017 1600

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - Duplicate

Sample ID: SG21101-004DU
Matrix: Aqueous
Batch: 47634
Analytical Method: SM 2540C-2011

Parameter	Sample Amount (mg/L)	Result (mg/L)	Q	Dil	% RPD	% RPD Limit	Analysis Date
TDS	280	270		1	4.7	20	07/27/2017 1600

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ
N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - MB

Sample ID: SQ47815-001
Batch: 47815
Analytical Method: 300.0

Matrix: Aqueous

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
Chloride	ND		1	2.0	mg/L	07/28/2017 1603

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - LCS

Sample ID: SQ47815-002
Batch: 47815
Analytical Method: 300.0
Matrix: Aqueous

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Chloride	20	20		1	99	90-110	07/28/2017 1628

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ
N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - MB

Sample ID: SQ48122-001
Batch: 48122
Analytical Method: 300.0

Matrix: Aqueous

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
Chloride	ND		1	2.0	mg/L	07/31/2017 1806

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - LCS

Sample ID: SQ48122-002
Batch: 48122
Analytical Method: 300.0
Matrix: Aqueous

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Chloride	20	20		1	99	90-110	07/31/2017 1830

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ
N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - MB

Sample ID: SQ47302-001
Batch: 47302
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
Acrolein	ND		1	20	ug/L	07/24/2017 1038
Acrylonitrile	ND		1	20	ug/L	07/24/2017 1038
Benzene	ND		1	5.0	ug/L	07/24/2017 1038
Bromodichloromethane	ND		1	5.0	ug/L	07/24/2017 1038
Bromoform	ND		1	5.0	ug/L	07/24/2017 1038
Bromomethane (Methyl bromide)	ND		1	10	ug/L	07/24/2017 1038
Carbon tetrachloride	ND		1	5.0	ug/L	07/24/2017 1038
Chlorobenzene	ND		1	5.0	ug/L	07/24/2017 1038
Chloroethane	ND		1	10	ug/L	07/24/2017 1038
2-Chloroethylvinylether	ND		1	10	ug/L	07/24/2017 1038
Chloroform	ND		1	5.0	ug/L	07/24/2017 1038
Chloromethane (Methyl chloride)	ND		1	10	ug/L	07/24/2017 1038
Dibromochloromethane	ND		1	10	ug/L	07/24/2017 1038
1,1-Dichloroethane	ND		1	5.0	ug/L	07/24/2017 1038
1,2-Dichloroethane	ND		1	5.0	ug/L	07/24/2017 1038
1,1-Dichloroethene	ND		1	5.0	ug/L	07/24/2017 1038
cis-1,2-Dichloroethene	ND		1	5.0	ug/L	07/24/2017 1038
trans-1,2-Dichloroethene	ND		1	5.0	ug/L	07/24/2017 1038
1,2-Dichloropropane	ND		1	5.0	ug/L	07/24/2017 1038
cis-1,3-Dichloropropene	ND		1	5.0	ug/L	07/24/2017 1038
trans-1,3-Dichloropropene	ND		1	5.0	ug/L	07/24/2017 1038
Ethylbenzene	ND		1	5.0	ug/L	07/24/2017 1038
Methylene chloride	ND		1	5.0	ug/L	07/24/2017 1038
1,1,2,2-Tetrachloroethane	ND		1	5.0	ug/L	07/24/2017 1038
Tetrachloroethene	ND		1	5.0	ug/L	07/24/2017 1038
Toluene	ND		1	5.0	ug/L	07/24/2017 1038
1,1,1-Trichloroethane	ND		1	5.0	ug/L	07/24/2017 1038
1,1,2-Trichloroethane	ND		1	5.0	ug/L	07/24/2017 1038
Trichloroethene	ND		1	5.0	ug/L	07/24/2017 1038
Vinyl chloride	ND		1	2.0	ug/L	07/24/2017 1038

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		92	70-130
Bromofluorobenzene		102	70-130
Toluene-d8		102	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - LCS

Sample ID: SQ47302-002
Batch: 47302
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acrolein	500	650		1	129	60-140	07/24/2017 0943
Acrylonitrile	100	90		1	90	70-130	07/24/2017 0943
Benzene	50	44		1	88	70-130	07/24/2017 0943
Bromodichloromethane	50	43		1	86	70-130	07/24/2017 0943
Bromoform	50	47		1	93	70-130	07/24/2017 0943
Bromomethane (Methyl bromide)	50	43		1	86	70-130	07/24/2017 0943
Carbon tetrachloride	50	41		1	81	70-130	07/24/2017 0943
Chlorobenzene	50	46		1	92	70-130	07/24/2017 0943
Chloroethane	50	46		1	92	70-130	07/24/2017 0943
Chloroform	50	42		1	84	70-130	07/24/2017 0943
Chloromethane (Methyl chloride)	50	44		1	89	60-140	07/24/2017 0943
Dibromochloromethane	50	46		1	93	70-130	07/24/2017 0943
1,1-Dichloroethane	50	41		1	82	70-130	07/24/2017 0943
1,2-Dichloroethane	50	44		1	89	70-130	07/24/2017 0943
1,1-Dichloroethene	50	42		1	84	70-130	07/24/2017 0943
cis-1,2-Dichloroethene	50	41		1	82	70-130	07/24/2017 0943
trans-1,2-Dichloroethene	50	42		1	83	70-130	07/24/2017 0943
1,2-Dichloropropane	50	43		1	86	70-130	07/24/2017 0943
cis-1,3-Dichloropropene	50	45		1	89	70-130	07/24/2017 0943
trans-1,3-Dichloropropene	50	45		1	90	70-130	07/24/2017 0943
Ethylbenzene	50	46		1	92	70-130	07/24/2017 0943
Methylene chloride	50	42		1	83	70-130	07/24/2017 0943
1,1,2,2-Tetrachloroethane	50	46		1	93	70-130	07/24/2017 0943
Tetrachloroethene	50	47		1	94	70-130	07/24/2017 0943
Toluene	50	46		1	91	70-130	07/24/2017 0943
1,1,1-Trichloroethane	50	43		1	86	70-130	07/24/2017 0943
1,1,2-Trichloroethane	50	44		1	87	70-130	07/24/2017 0943
Trichloroethene	50	42		1	85	70-130	07/24/2017 0943
Vinyl chloride	50	45		1	90	70-130	07/24/2017 0943

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		96	70-130
Bromofluorobenzene		101	70-130
Toluene-d8		105	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - MB

Sample ID: SQ47401-001
Batch: 47401
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
Acrolein	ND		1	20	ug/L	07/25/2017 0941
Acrylonitrile	ND		1	20	ug/L	07/25/2017 0941
Benzene	ND		1	5.0	ug/L	07/25/2017 0941
Bromodichloromethane	ND		1	5.0	ug/L	07/25/2017 0941
Bromoform	ND		1	5.0	ug/L	07/25/2017 0941
Bromomethane (Methyl bromide)	ND		1	10	ug/L	07/25/2017 0941
Carbon tetrachloride	ND		1	5.0	ug/L	07/25/2017 0941
Chlorobenzene	ND		1	5.0	ug/L	07/25/2017 0941
Chloroethane	ND		1	10	ug/L	07/25/2017 0941
2-Chloroethylvinylether	ND		1	10	ug/L	07/25/2017 0941
Chloroform	ND		1	5.0	ug/L	07/25/2017 0941
Chloromethane (Methyl chloride)	ND		1	10	ug/L	07/25/2017 0941
Dibromochloromethane	ND		1	10	ug/L	07/25/2017 0941
1,1-Dichloroethane	ND		1	5.0	ug/L	07/25/2017 0941
1,2-Dichloroethane	ND		1	5.0	ug/L	07/25/2017 0941
1,1-Dichloroethene	ND		1	5.0	ug/L	07/25/2017 0941
cis-1,2-Dichloroethene	ND		1	5.0	ug/L	07/25/2017 0941
trans-1,2-Dichloroethene	ND		1	5.0	ug/L	07/25/2017 0941
1,2-Dichloropropane	ND		1	5.0	ug/L	07/25/2017 0941
cis-1,3-Dichloropropene	ND		1	5.0	ug/L	07/25/2017 0941
trans-1,3-Dichloropropene	ND		1	5.0	ug/L	07/25/2017 0941
Ethylbenzene	ND		1	5.0	ug/L	07/25/2017 0941
Methylene chloride	ND		1	5.0	ug/L	07/25/2017 0941
1,1,2,2-Tetrachloroethane	ND		1	5.0	ug/L	07/25/2017 0941
Tetrachloroethene	ND		1	5.0	ug/L	07/25/2017 0941
Toluene	ND		1	5.0	ug/L	07/25/2017 0941
1,1,1-Trichloroethane	ND		1	5.0	ug/L	07/25/2017 0941
1,1,2-Trichloroethane	ND		1	5.0	ug/L	07/25/2017 0941
Trichloroethene	ND		1	5.0	ug/L	07/25/2017 0941
Vinyl chloride	ND		1	2.0	ug/L	07/25/2017 0941

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		94	70-130
Bromofluorobenzene		102	70-130
Toluene-d8		103	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - LCS

Sample ID: SQ47401-002
Batch: 47401
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acrolein	500	600		1	120	60-140	07/25/2017 0846
Acrylonitrile	100	89		1	89	70-130	07/25/2017 0846
Benzene	50	47		1	94	70-130	07/25/2017 0846
Bromodichloromethane	50	45		1	90	70-130	07/25/2017 0846
Bromoform	50	47		1	94	70-130	07/25/2017 0846
Bromomethane (Methyl bromide)	50	53		1	105	70-130	07/25/2017 0846
Carbon tetrachloride	50	45		1	89	70-130	07/25/2017 0846
Chlorobenzene	50	49		1	98	70-130	07/25/2017 0846
Chloroethane	50	53		1	106	70-130	07/25/2017 0846
Chloroform	50	46		1	92	70-130	07/25/2017 0846
Chloromethane (Methyl chloride)	50	48		1	96	60-140	07/25/2017 0846
Dibromochloromethane	50	48		1	96	70-130	07/25/2017 0846
1,1-Dichloroethane	50	45		1	89	70-130	07/25/2017 0846
1,2-Dichloroethane	50	47		1	94	70-130	07/25/2017 0846
1,1-Dichloroethene	50	46		1	92	70-130	07/25/2017 0846
cis-1,2-Dichloroethene	50	45		1	90	70-130	07/25/2017 0846
trans-1,2-Dichloroethene	50	46		1	92	70-130	07/25/2017 0846
1,2-Dichloropropane	50	46		1	91	70-130	07/25/2017 0846
cis-1,3-Dichloropropene	50	48		1	96	70-130	07/25/2017 0846
trans-1,3-Dichloropropene	50	47		1	94	70-130	07/25/2017 0846
Ethylbenzene	50	49		1	98	70-130	07/25/2017 0846
Methylene chloride	50	45		1	90	70-130	07/25/2017 0846
1,1,2,2-Tetrachloroethane	50	47		1	95	70-130	07/25/2017 0846
Tetrachloroethene	50	50		1	101	70-130	07/25/2017 0846
Toluene	50	49		1	97	70-130	07/25/2017 0846
1,1,1-Trichloroethane	50	48		1	95	70-130	07/25/2017 0846
1,1,2-Trichloroethane	50	45		1	90	70-130	07/25/2017 0846
Trichloroethene	50	45		1	89	70-130	07/25/2017 0846
Vinyl chloride	50	49		1	97	70-130	07/25/2017 0846

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		94	70-130
Bromofluorobenzene		102	70-130
Toluene-d8		103	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution) - MB

Sample ID: SQ47558-001
Batch: 47558
Analytical Method: 8260B (SIM iso.)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
1,4-Dioxane	ND		1	3.0	ug/L	07/26/2017 1336

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		98	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution) - LCS

Sample ID: SQ47558-002
Batch: 47558
Analytical Method: 8260B (SIM iso.)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,4-Dioxane	50	47		1	95	70-130	07/26/2017 1247

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		96	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution) - LCSD

Sample ID: SQ47558-003
Batch: 47558
Analytical Method: 8260B (SIM iso.)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
1,4-Dioxane	50	45		1	90	5.2	70-130	20	07/26/2017 1311

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		94	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.
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ICP-AES Metals - MB

Sample ID: SQ47242-001
Batch: 47242
Analytical Method: 6010D

Matrix: Aqueous
Prep Method: 3005A
Prep Date: 07/22/2017 1256

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
Arsenic	ND		1	0.015	mg/L	07/29/2017 0435
Barium	ND		1	0.025	mg/L	07/29/2017 0435
Cadmium	ND		1	0.0050	mg/L	07/29/2017 0435
Chromium	ND		1	0.010	mg/L	07/29/2017 0435
Lead	ND		1	0.010	mg/L	07/29/2017 0435
Nickel	ND		1	0.040	mg/L	07/29/2017 0435
Zinc	ND		1	0.020	mg/L	07/29/2017 0435

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.
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ICP-AES Metals - LCS

Sample ID: SQ47242-002
Batch: 47242
Analytical Method: 6010D

Matrix: Aqueous
Prep Method: 3005A
Prep Date: 07/22/2017 1256

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Arsenic	0.40	0.43		1	107	80-120	07/29/2017 0440
Barium	2.0	2.1		1	104	80-120	07/29/2017 0440
Cadmium	0.40	0.41		1	103	80-120	07/29/2017 0440
Chromium	2.0	2.0		1	101	80-120	07/29/2017 0440
Lead	0.40	0.41		1	103	80-120	07/29/2017 0440
Nickel	2.0	2.1		1	106	80-120	07/29/2017 0440
Zinc	2.0	2.0		1	101	80-120	07/29/2017 0440

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.
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CVAA - MB

Sample ID: SQ47599-001
Batch: 47599
Analytical Method: 7470A

Matrix: Aqueous
Prep Method: 7470A
Prep Date: 07/26/2017 2236

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
Mercury	ND		1	0.00020	mg/L	07/27/2017 0319

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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CVAA - LCS

Sample ID: SQ47599-002
Batch: 47599
Analytical Method: 7470A

Matrix: Aqueous
Prep Method: 7470A
Prep Date: 07/26/2017 2236

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Mercury	0.0020	0.0022		1	109	80-120	07/27/2017 0321

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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CVAA - MS

Sample ID: SG21101-002MS
Batch: 47599
Analytical Method: 7470A

Matrix: Aqueous
Prep Method: 7470A
Prep Date: 07/26/2017 2236

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Mercury	ND	0.0020	0.0022		1	108	85-115	07/27/2017 0333

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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CVAA - MSD

Sample ID: SG21101-002MD
Batch: 47599
Analytical Method: 7470A

Matrix: Aqueous
Prep Method: 7470A
Prep Date: 07/26/2017 2236

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Mercury	ND	0.0020	0.0021		1	107	0.47	85-115	20	07/27/2017 0335

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.
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Chain of Custody
and
Miscellaneous Documents

Shealy Environmental Services, Inc.
106 Vantage Point Drive
West Columbia, South Carolina 29172
Telephone No. (803) 791-9700 Fax No. (803) 791-9111
www.shealylab.com

Chain of Custody Record

Number

Client	Report to Contact	Telephone No. / Fax No. / Email	Quote No.
Smith Gardner	Kevin Anderson	919-828-0577	15127
Address	**Sampler's Signature**	**Waybill No.**	**Page**
14 North Bolyan Ave	x _____		1 of 1
City / State / Zip Code	**Printed Name**		
Raleigh / NC / 27603	BRITT RANSOM		
Project Name			
Pinewood Detection Monitoring (GW)			

Project Number	P.O Number

Analysis (Attach list if more space is needed)

SG21101

Sample ID / Description (Containers for each sample may be combined on one line)	Date	Time	G=Grab C=Composite	Matrix: Aqueous	Solid	Non-Aq.	No. of Containers by Preservation Type: Unpres.	H2SO4	HNO3	HCL	NaOH	5035 kit	NaOH+Zn	VOC	1,4-Dioxane SIM	Metals + Hg - As,Be,Cd,Cr,Pb,Ni,Z	Chloride/TDS	
MW-005A	7/21/17	0930	G	X			2		1	6				X	X	X	X	
MW-127T	7/21/17	0945	G	X			2		1	6				X	X	X	X	
MW-019A	7/21/17	1005	G	X			2		1	6				X	X	X	X	
MW-020A	7/21/17	1025	G	X			2		1	6				X	X	X	X	
MW-143T	7/21/17	1035	G	X			2		1	6				X	X	X	X	
UBC-015AR	7/21/17	1200	G	X			2		1	6				X	X	X	X	
MW-089T	7/21/17	1245	G	X			2		1	6				X	X	X	X	
UBC-026	7/21/17	1050	G	X			2		1	6				X	X	X	X	
UBC-024	7/21/17	1230	G	X			2		1	6				X	X	X	X	
FIELD BLANK	7/21/17	0955	G	X			1			3				X				* trip for VOCs only *

Possible Hazard Identification
[X] Non-Hazard [ ] Flammable [ ] Skin Irritant
[ ] Poison [ ] Unknown

Sample Disposal
[ ] Return to Client [X] Disposal by Lab

Note: All samples are retained for six weeks from receipt unless other arrangements are made

Turn Around Time Required (Prior lab approval required for expedited TAT)
[X] Standard [ ] Rush (Please Specify)

QC Requirements (Please Specify)

	Date	Time		Date	Time
1. Relinquished by	7/21/17	1255	1. Received by	7/21/17	1255
2. Relinquished by	7-21-17	1510	2. Received by	7-21-17	1510
3. Relinquished by	7-21-17	1553	3. Laboratory Received by	7-21-17	1553

Comments

LAB USE ONLY
Received on Ice (Check) [X] Y [ ] N [ ] Ice Pack

Receipt Temp. 2.8 °C

Document Number: F-AD-104 Effective Date 08-10-10

Field Service Record - Columbia Office

Date: 7-21-17 Time: 1140 Analyst: JDS

Client: Eaton CoC#: 614

pH (SM4500H+-B-2011) - Sample Duplicate Documentation

☐ NA section

pH Meter ID: 38

Standard ID #		Standard Concentration (SU)	Meter Reading (SU)	Pass/Fail (P/F) Must be within ±0.1SU	Comments
Pre Analysis Check Std Buffer (CCV)	16-177	7.00	7.00	P	
Sample ID #	**Compliance pH Reading (SU)**	**Duplicate pH Reading (SU)**	**Difference**	**Pass/Fail (P/F) Must be within ±0.2SU**	**Comments**
Liac 2	7.67	7.52	.15	P	
☒ NA					

TRC (SM4500-Cl G-2011) - Traceability Documentation

☒ NA section

TRC Meter ID: DPD Standard ID:

Sample ID #	Compliance TRC Reading (mg/L Cl)	Duplicate TRC Reading (mg/L Cl)	%Difference[1]	Pass/Fail (P/F) Must be within ±10%	Comments
☒ NA					

Conductivity (EPA Method 120.1)

☒ NA section

Conductivity Meter ID:

Standard ID #		Standard Cond. (umho/cm)	% Difference[1]	Pass/Fail (P/F) Must be within ±10%	Comments
Verification Standard (CCV)					
Sample ID #	**Compliance Cond. Reading (umho/cm)**	**Duplicate Cond. Reading (umho/cm)**	**%Difference[1]**	**Pass/Fail (P/F) Must be within ±10%**	**Comments**
☒ NA					

Dissolved Oxygen (SM4500-O G-2011)

☒ NA section

DO Meter ID:

	Temperature (°C)	% Saturation Reading	Table Value (mg/L)[2]	Meter Reading (mg/L)[3]	Pass/Fail (P/F)[3]
☒ NA Pre Analysis Saturation CCV					
☒ NA Post Analysis Saturation CCV					

Comments:

[1] % Difference = ((Compliance Reading - Duplicate Reading) / Compliance Reading)*100 [2] see MF001HV Appendix A [3] Meter reading must be within ±0.2 mg/L of Table Value at appropriate temp

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Shealy Environmental Services, Inc.
Document Number: MEI0018C-08

Page 1 of 1
Effective Date: 03/07/2017
Expiry Date: 03/07/2022

Sample Receipt Checklist (SRC)

Client: S & G Cooler Inspected by/date: EC 7-21-17 Lot #: SG21101

Means of receipt: ☑ SESI ☐ Client ☐ UPS ☐ FedEx ☐ Other			
Yes ☐	No ☑		1. Were custody seals present on the cooler?
Yes ☐	No ☐	NA ☑	2. If custody seals were present, were they intact and unbroken?
pH strip ID: 17-854 Cl strip ID:			
Cooler ID/Original temperature upon receipt/Derived (corrected) temperature upon receipt: ___/___°C 12.8/12.8°C ___/___°C ___/___°C			
Method: ☑ Temperature Blank ☐ Against Bottles IR Gun ID: G IR Gun Correction Factor: 0 °C			
Method of coolant: ☐ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ None			
Yes ☐	No ☐	NA ☑	3. If temperature of any cooler exceeded 6.0°C, was Project Manager Notified? PM was Notified by: phone / email / face-to-face (circle one).
Yes ☐	No ☐	NA ☑	4. Is the commercial courier's packing slip attached to this form?
Yes ☑	No ☐		5. Were proper custody procedures (relinquished/received) followed?
Yes ☑	No ☐		6. Were sample IDs listed on the COC?
Yes ☑	No ☐		7. Were sample IDs listed on all sample containers?
Yes ☑	No ☐		8. Was collection date & time listed on the COC?
Yes ☑	No ☐		9. Was collection date & time listed on all sample containers?
Yes ☑	No ☐		10. Did all container label information (ID, date, time) agree with the COC?
Yes ☑	No ☐		11. Were tests to be performed listed on the COC?
Yes ☑ EC 7-21-17	No ☐		12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)? Rec. 6HCl & 1 NP
Yes ☑	No ☐		13. Was adequate sample volume available?
Yes ☑	No ☐		14. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes ☑	No ☐		15. Were any samples containers missing/excess (circle one) samples Not listed on COC?
Yes ☐	No ☐	NA ☐	16. Were bubbles present >"pea-size" (¼"or 6mm in diameter) in any VOA vials?
Yes ☑	No ☐	NA ☐	17. Were all DRO/metals/nutrient samples received at a pH of < 2?
Yes ☐	No ☐	NA ☑	18. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9?
Yes ☐	No ☐	NA ☑	19. Were all applicable NH3/TKN/cyanide/phenol/BNA (< 0.5mg/L) samples free of residual chlorine?
Yes ☐	No ☐	NA ☑	20. Were collection temperatures documented on the COC for NC samples?
Yes ☐	No ☐	NA ☑	21. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc…) correctly transcribed from the COC into the comment section in LIMS?
Yes ☐	No ☑		22. Was the quote number used taken from the container label?

Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s) _____ were received incorrectly preserved and were adjusted accordingly in sample receiving with _____ (H_2SO_4, HNO_3, HCl, NaOH) using SR # _____.

Sample(s) MW-85T (2) were received with bubbles >6 mm in diameter.

Samples(s) _____ were received with TRC > 0.5 mg/L (If #21 is No) and were adjusted accordingly in sample receiving with sodium thiosulfate ($Na_2S_2O_3$) with Shealy ID: _____.

SC Drinking Water Project Sample(s) pH verified to be < 2 by _____ Date: _____
Sample(s) _____ were Not received at a pH of < 2 and were adjusted accordingly using SR# _____

Sample labels applied by: Em Cole Verified by: _____ Date: 7-21-17

Comments: Received trip Blanks not on COC

2 nd

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID MW 005A Sample Time 0930

Field Personnel CE, BR, EO Sample Date 7/21/17

Weather Conditions OVERCAST Air Temperature (°F) 80

Total Depth (ft.) 50 (from well log) 21.73

Depth to Static Water Surface (ft.) 28.27

Calculated Well Volume (1 casing volume) (gal.) 4

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 20

Measured Flow Rate (gal/min) 0.5

Calculated Pumping Time (length of time in minutes) 40

Actual Pumping Time (length of time in minutes) 12

Check-back Time ~~125~~ 1307

Recovery Time (if needed) 5 DAYS

pH Calibration During Purging (~~4~~ 7 10) (circle two) Actual Reading 4.01/7.01 pH

pH Calibration During Sampling (4 7 10) (circle two) Actual Reading 4.00/7.01 pH 7/21/17 Date

Purge Start Time	1253	Purge Stop Time	1305
Purge Date	7/17/17	Total Gallons Purged	4 (DRY)
Purge Method	WW		

	Well Volume Units	Initial	1	2	3	4	5
Volume Purged	gal.	—			@ Sample		
Time	-	1253			0930		
Temperature	°C	20.7			23.3		
pH	Std. units	6.73			6.56		
Conductivity	µmhos/cm	150			150		
Turbidity	NTUs	—			11.56		

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☑ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☑
VOC	Yes ☑ No ☐	Cyanide (NaOH)	Yes ☐ No ☑
Metals (HNO_3)	Yes ☑ No ☐	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☑
Rinsate Blank	Yes ☐ No ☑	Field Blank	Yes ☐ No ☑
Metals verified (<2 pH)	Yes ☑ No ☐	(10% of samples verified per SAP)	

pH L2

411

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID MW-127T Sample Time 0945

Field Personnel LE, BR, FO Sample Date 7/21/17

Weather Conditions SUNNY Air Temperature (°F) 95

Total Depth (ft.) 55.00 (from well log) LWC: 20.22

Depth to Static Water Surface (ft.) 34.78

Calculated Well Volume (1 casing volume) (gal.) 14

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 70

Measured Flow Rate (gal/min) 1.0

Calculated Pumping Time (length of time in minutes) 70

Actual Pumping Time (length of time in minutes) 60

Check-back Time 1315

Recovery Time (if needed) 24

pH Calibration During Purging (4) (7) 10) (circle two) Actual Reading 4.01 / 7.01 pH

pH Calibration During Sampling (4) (7) 10) (circle two) Actual Reading 4.01 / 7.01 pH 7/21/17 Date

Purge Start Time	1245	Purge Stop Time	~~1400~~ 1345
Purge Date	7/20/17	Total Gallons Purged	14 (DRY)
Purge Method	WW		

	Well Volume Units	Initial	1	2	3	4	5
Volume Purged	gal.	—			@sample		
Time	-	1245			0945		
Temperature	°C	24.9			23.3		
pH	Std. units	5.96			6.13		
Conductivity	µmhos/cm	140			140		
Turbidity	NTUs				3.65		

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☑ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☑
VOC	Yes ☑ No ☐	Cyanide (NaOH)	Yes ☐ No ☑
Metals (HNO_3)	Yes ☑ No ☐	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☑
Rinsate Blank	Yes ☐ No ☑	Field Blank	Yes ☑ No ☐
Metals verified (<2 pH)	Yes ☑ No ☐ (10% of samples verified per SAP)		

pH < 2

FB @ 0955

4"

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID MW-019A Sample Time 1005

Field Personnel CE, BR, FO Sample Date 7/21/17

Weather Conditions Sunny Air Temperature (°F) 95

Total Depth (ft.) 58.00 (from well log) LWC: 22.06

Depth to Static Water Surface (ft.) 35.94

Calculated Well Volume (1 casing volume) (gal.) 15

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 75

Measured Flow Rate (gal/min) 0.5

Calculated Pumping Time (length of time in minutes) 150

Actual Pumping Time (length of time in minutes) 65

Check-back Time 1250

Recovery Time (if needed) 24

pH Calibration During Purging (4, 7, 10) (circle two) Actual Reading 4.01/7.01 pH

pH Calibration During Sampling (4, 7, 10) (circle two) Actual Reading 4.01/7.01 pH 7/21/17 Date

Purge Start Time	1235	Purge Stop Time	1340	
Purge Date	7/20/17	Total Gallons Purged	15 (Dry)	
Purge Method	WW			

	Well Volume Units	Initial	1	2	3	4	5
Volume Purged	gal.	~~1245~~			@Sample		
Time	-	1235			1005		
Temperature	°C	25.0			22.2		
pH	Std. units	5.29			6.50		
Conductivity	µmhos/cm	130			140		
Turbidity	NTUs	✓			4.02		

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☑ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☑
VOC	Yes ☑ No ☐	Cyanide (NaOH)	Yes ☐ No ☑
Metals (HNO_3)	Yes ☐ No ☑	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☑
Rinsate Blank	Yes ☐ No ☑	Field Blank	Yes ☐ No ☑
Metals verified (<2 pH)	Yes ☑ No ☐ (10% of samples verified per SAP)		

4"

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID MW-020A Sample Time 1025

Field Personnel CE, BR, FO Sample Date 7/21/17

Weather Conditions PARTLY CLOUDY Air Temperature (°F) 85

Total Depth (ft.) 55.00 (from well log) LWC: 17.08

Depth to Static Water Surface (ft.) 37.92

Calculated Well Volume (1 casing volume) (gal.) 12

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 60

Measured Flow Rate (gal/min) 0.5

Calculated Pumping Time (length of time in minutes) 120

Actual Pumping Time (length of time in minutes) 25

Check-back Time 1400

Recovery Time (if needed) 24

pH Calibration During Purging (4, 7, 10) (circle two) Actual Reading 4.01/7.01 pH

pH Calibration During Sampling (4, 7, 10) (circle two) Actual Reading 4.01/7.01 pH 7/21/17 Date

Purge Start Time	1345	Purge Stop Time	1410
Purge Date	7/20/17	Total Gallons Purged	12 (DRY)
Purge Method	WW		

	Well Volume Units	Initial	1	2	3	4	5
Volume Purged	gal.	~			@ Sample		
Time	-	1345			1025		
Temperature	°C	22.0			24.3		
pH	Std. units	5.72			6.13		
Conductivity	µmhos/cm	170			180		
Turbidity	NTUs	~			2.90		

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☒ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☒
VOC	Yes ☒ No ☐	Cyanide (NaOH)	Yes ☐ No ☒
Metals (HNO_3)	Yes ☒ No ☐	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☒
Rinsate Blank	Yes ☐ No ☒	Field Blank	Yes ☐ No ☒
Metals verified (<2 pH)	Yes ☒ No ☐ (10% of samples verified per SAP)		

pH L2

2"

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID MW-143T Sample Time 1035

Field Personnel CE, BR, FO Sample Date 7/21/17

Weather Conditions OVERCAST Air Temperature (°F) 95

Total Depth (ft.) 73.88 (from well log) LWL: 31.36

Depth to Static Water Surface (ft.) 42.52

Calculated Well Volume (1 casing volume) (gal.) 6

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 30

Measured Flow Rate (gal/min) 0.5

Calculated Pumping Time (length of time in minutes) ~~30~~ 60

Actual Pumping Time (length of time in minutes) ~~DRY~~ 20

Check-back Time 1410

Recovery Time (if needed) 24

pH Calibration During Purging (4, 7, 10) (circle two) Actual Reading 4.01/7.01 pH

pH Calibration During Sampling (4, 7, 10) (circle two) Actual Reading 4.01/7.01 pH 7/21/17 Date

Purge Start Time	1355	Purge Stop Time	1415
Purge Date	7/20/17	Total Gallons Purged	6 (DRY)
Purge Method	WW		

	Well Volume Units	Initial	1	2	3	4	5
Volume Purged	gal.	–			(Sample)		
Time	-	1355			1035		
Temperature	°C	22.0			24.6		
pH	Std. units	6.24			6.01		
Conductivity	µmhos/cm	130			120		
Turbidity	NTUs	–			3.42		

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☒ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☒
VOC	Yes ☒ No ☐	Cyanide (NaOH)	Yes ☐ No ☒
Metals (HNO_3)	Yes ☒ No ☐	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☒
Rinsate Blank	Yes ☐ No ☒	Field Blank	Yes ☐ No ☒
Metals verified (<2 pH)	Yes ☐ No ☒	(10% of samples verified per SAP)	

4"

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID VBC - 015AR Sample Time 1200

Field Personnel CE, BR, FO Sample Date 7/21/17

Weather Conditions SUNNY Air Temperature (°F) 85

Total Depth (ft.) 97.00 (from well log) LWC: 43.24

Depth to Static Water Surface (ft.) 53.76

Calculated Well Volume (1 casing volume) (gal.) 29

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 145

Measured Flow Rate (gal/min) 1.0

Calculated Pumping Time (length of time in minutes) 145

Actual Pumping Time (length of time in minutes) 80

Check-back Time 0925

Recovery Time (if needed) 2

pH Calibration During Purging (4.01 / 7.01 / 10) (circle two) Actual Reading 4.01/7.01 pH

pH Calibration During Sampling (4.01 / 7.01 / 10) (circle two) Actual Reading 4.01/7.01 pH 7/21/17 Date

Purge Start Time	0855	Purge Stop Time	~~1015~~ 1015	
Purge Date	7/21/17	Total Gallons Purged	29 (DRY)	
Purge Method	WM			

	Well Volume Units	Initial	1	2	3	4	5
Volume Purged	gal.	—			~~@ SAMPLE~~	@ SAMPLE	
Time	-	0855			0930	1200	
Temperature	°C	21.7			23.1	23.2	
pH	Std. units	8.22			6.96	8.83	
Conductivity	µmhos/cm	100			110	110	
Turbidity	NTUs	—			~~456~~	5.48	

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☐ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☐
VOC	Yes ☐ No ☐	Cyanide (NaOH)	Yes ☐ No ☐
Metals (HNO_3)	Yes ☐ No ☐	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☐
Rinsate Blank	Yes ☐ No ☐	Field Blank	Yes ☐ No ☐
Metals verified (<2 pH)	Yes ☐ No ☐	(10% of samples verified per SAP)	

4/11

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID MW-089T Sample Time 1245

Field Personnel CE, BR, FO Sample Date 7/21/17

Weather Conditions Sunny Air Temperature (°F) 85

Total Depth (ft.) 98.00 (from well log) LWC = 17.72

Depth to Static Water Surface (ft.) 80.28

Calculated Well Volume (1 casing volume) (gal.) 12

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 60

Measured Flow Rate (gal/min) 1.0

Calculated Pumping Time (length of time in minutes) 60

Actual Pumping Time (length of time in minutes) 15

Check-back Time 0855

Recovery Time (if needed) 24

pH Calibration During Purging (~~4.0~~, 10) (circle two) Actual Reading 4.01/7.01 pH

pH Calibration During Sampling (~~4.0~~, 10) (circle two) Actual Reading 4.01/7.01 pH 7/21/17 Date

Purge Start Time	0840	Purge Stop Time	0855
Purge Date	7/21/17	Total Gallons Purged	12 (DRY)
Purge Method	WW		

	Well Volume Units	Initial	1	2	3	4	5
Volume Purged	gal.	—			@ Sample		
Time	-	0840			1245		
Temperature	°C	22.0			23.1		
pH	Std. units	6.53			6.43		
Conductivity	µmhos/cm	130			100		
Turbidity	NTUs	—			3.67		

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☐ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☐
VOC	Yes ☐ No ☐	Cyanide (NaOH)	Yes ☐ No ☐
Metals (HNO_3)	Yes ☐ No ☐	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☐
Rinsate Blank	Yes ☐ No ☐	Field Blank	Yes ☐ No ☐
Metals verified (<2 pH)	Yes ☐ No ☐	(10% of samples verified per SAP)	

4"

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID UBC-026 Sample Time 1050

Field Personnel CC, BR, FO Sample Date 7/21/17

Weather Conditions SUNNY Air Temperature (°F) 85

Total Depth (ft.) 133 (from well log) LWC: 47.67

Depth to Static Water Surface (ft.) 85.33

Calculated Well Volume (1 casing volume) (gal.) 32

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 160

Measured Flow Rate (gal/min) 1.0

Calculated Pumping Time (length of time in minutes) 160

Actual Pumping Time (length of time in minutes) 120

Check-back Time 0920

Recovery Time (if needed) NA

pH Calibration During Purging (4.0, 10) (circle two) Actual Reading 4.01/7.01 pH

pH Calibration During Sampling (4.0, 10) (circle two) Actual Reading 4.01/7.01 pH 7/21/17 Date

Purge Start Time	0850	Purge Stop Time	1050
Purge Date	7/21/17	Total Gallons Purged	96
Purge Method	WW		

	Well Volume Units	Initial	1	2	3	4	5
Volume Purged	gal.	—	32	64	96		
Time	-	0850	0940	1015	1050		
Temperature	°C	21.4	24.3	21.3	21.7		
pH	Std. units	7.90	7.88	7.50	2.33		
Conductivity	µmhos/cm	110	120	130	120		
Turbidity	NTUs	—	—	—	2.12		

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☒ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☒
VOC	Yes ☒ No ☐	Cyanide (NaOH)	Yes ☐ No ☒
Metals (HNO_3)	Yes ☐ No ☐	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☒
Rinsate Blank	Yes ☐ No ☒	Field Blank	Yes ☐ No ☒
Metals verified (<2 pH)	Yes ☐ No ☐	(10% of samples verified per SAP)	

41

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID VBC-024 Sample Time 1230

Field Personnel CE, BE, FO Sample Date 7/21/17

Weather Conditions Sunny Air Temperature (°F) 90

Total Depth (ft.) 139 (from well log) LWC: 48.43

Depth to Static Water Surface (ft.) 90.57

Calculated Well Volume (1 casing volume) (gal.) 32

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 160

Measured Flow Rate (gal/min) 1.0

Calculated Pumping Time (length of time in minutes) 160

Actual Pumping Time (length of time in minutes) 200

Check-back Time 1020

Recovery Time (if needed) NA

pH Calibration During Purging (4, 7, 10) (circle two) Actual Reading 4.01/7.01 pH

pH Calibration During Sampling (4, 7, 10) (circle two) Actual Reading 4.01/7.01 pH 7/21/17 Date

Purge Start Time	0950	Purge Stop Time	1230
Purge Date	7/21/17	Total Gallons Purged	96
Purge Method	WW		

	Well Volume Units	Initial	1	2	3	4	5
Volume Purged	gal.	~~0950~~	~~1105~~ 32	64	96		
Time	-	0950	1105	1150	1230		
Temperature	°C	24.8	25.9	22.3	22.5		
pH	Std. units	7.70	7.02	7.16	7.32		
Conductivity	µmhos/cm	110	110	110	110		
Turbidity	NTUs	—	—	—	4.45		

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☒ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☒
VOC	Yes ☒ No ☐	Cyanide (NaOH)	Yes ☐ No ☒
Metals (HNO_3)	Yes ☒ No ☐	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☒
Rinsate Blank	Yes ☐ No ☒	Field Blank	Yes ☐ No ☒
Metals verified (<2 pH)	Yes ☐ No ☒	(10% of samples verified per SAP)	

SHEALY ENVIRONMENTAL SERVICES, INC.

Report of Analysis

Smith Gardner, Inc.
14 North Boylan Avenue
Raleigh, NC 27603
Attention: Kevin Anderson

Project Name: Pinewood LF GW (Detection Monitoring)

Lot Number:**SG24037**

Date Completed:08/02/2017

08/03/2017 2:43 PM
Approved and released by:
Project Manager: Kelly M. Nance

The electronic signature above is the equivalent of a handwritten signature.

Shealy Environmental Services, Inc.
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Case Narrative
Smith Gardner, Inc.
Lot Number: SG24037

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

Volatiles (SIM)
Sample -005 had internal standards recovered outside of the acceptance limits due to confirmed matrix interference.

Sample Summary
Smith Gardner, Inc.
Lot Number: SG24037

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	UBC016	Aqueous	07/24/2017 1155	07/24/2017
002	PBC004	Aqueous	07/24/2017 0955	07/24/2017
003	MW022TR	Aqueous	07/24/2017 1010	07/24/2017
004	MW023ATR	Aqueous	07/24/2017 1330	07/24/2017
005	UBC029AR	Aqueous	07/24/2017 1210	07/24/2017
006	MW027BTR	Aqueous	07/24/2017 1305	07/24/2017
007	MW028A	Aqueous	07/24/2017 1440	07/24/2017
008	MW050T	Aqueous	07/24/2017 1420	07/24/2017
009	MW051T	Aqueous	07/24/2017 1400	07/24/2017
010	MW024TR	Aqueous	07/24/2017 1400	07/24/2017
011	MW026ATR	Aqueous	07/24/2017 1350	07/24/2017
012	field blank	Aqueous	07/24/2017 1015	07/24/2017
013	trip blank	Aqueous	07/24/2017	07/24/2017

(13 samples)

Detection Summary

Smith Gardner, Inc.

Lot Number: SG24037

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	UBC016	Aqueous	Chloride	300.0	2.7		mg/L	6
001	UBC016	Aqueous	TDS	SM 2540C-	110		mg/L	6
001	UBC016	Aqueous	Barium	6010D	0.073		mg/L	9
002	PBC004	Aqueous	Chloride	300.0	2.6		mg/L	11
002	PBC004	Aqueous	TDS	SM 2540C-	110		mg/L	11
002	PBC004	Aqueous	Barium	6010D	0.068		mg/L	14
003	MW022TR	Aqueous	Chloride	300.0	3.0		mg/L	16
003	MW022TR	Aqueous	TDS	SM 2540C-	150		mg/L	16
003	MW022TR	Aqueous	Barium	6010D	0.045		mg/L	19
004	MW023ATR	Aqueous	Chloride	300.0	3.2		mg/L	21
004	MW023ATR	Aqueous	TDS	SM 2540C-	150		mg/L	21
004	MW023ATR	Aqueous	Barium	6010D	0.033		mg/L	24
005	UBC029AR	Aqueous	Chloride	300.0	2.7		mg/L	26
005	UBC029AR	Aqueous	TDS	SM 2540C-	56		mg/L	26
005	UBC029AR	Aqueous	Barium	6010D	0.059		mg/L	29
006	MW027BTR	Aqueous	Chloride	300.0	2.8		mg/L	31
006	MW027BTR	Aqueous	TDS	SM 2540C-	200		mg/L	31
007	MW028A	Aqueous	Chloride	300.0	2.9		mg/L	36
007	MW028A	Aqueous	TDS	SM 2540C-	170		mg/L	36
007	MW028A	Aqueous	Chromium	6010D	0.011		mg/L	39
008	MW050T	Aqueous	TDS	SM 2540C-	110		mg/L	41
008	MW050T	Aqueous	Barium	6010D	0.063		mg/L	44
009	MW051T	Aqueous	TDS	SM 2540C-	120		mg/L	46
009	MW051T	Aqueous	Barium	6010D	0.062		mg/L	49
010	MW024TR	Aqueous	Chloride	300.0	5.3		mg/L	51
010	MW024TR	Aqueous	TDS	SM 2540C-	170		mg/L	51
011	MW026ATR	Aqueous	Chloride	300.0	5.6		mg/L	56
011	MW026ATR	Aqueous	TDS	SM 2540C-	340		mg/L	56
011	MW026ATR	Aqueous	Barium	6010D	0.034		mg/L	59
011	MW026ATR	Aqueous	Chromium	6010D	0.024		mg/L	59

(30 detections)

Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SG24037-001
Description: UBC016
Matrix: Aqueous
Date Sampled: 07/24/2017 1155
Date Received: 07/24/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	07/24/2017 1155	CAE		
1		(Specific Con) 120.1	1	07/24/2017 1155	CAE		
1		(Temperature) SM 2550B-2010	1	07/24/2017 1155	CAE		
1		(Turbidity -) 180.1	1	07/24/2017 1155	CAE		
1		(Chloride) 300.0	1	08/01/2017 0519	TAF		48122
1		(TDS) SM 2540C-2011	1	07/27/2017 1600	AJG		47634

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	6.46			su	1
Specific Conductance - Field		120.1	120		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	20.7			° C	1
Turbidity - Field		180.1	1.6		1.0	NTU	1
Chloride		300.0	2.7		2.0	mg/L	1
TDS		SM 2540C-20	110		10	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SG24037-001
Description: UBC016
Matrix: Aqueous
Date Sampled: 07/24/2017 1155
Date Received: 07/24/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	07/27/2017 0224	JJG		47611

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		102	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
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W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG24037-001
Description: UBC016
Matrix: Aqueous
Date Sampled: 07/24/2017 1155
Date Received: 07/24/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/25/2017 1200	TML		47399

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		91	70-130
Bromofluorobenzene		99	70-130
Toluene-d8		95	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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ICP-AES Metals

Client: Smith Gardner, Inc.
Laboratory ID: SG24037-001
Description: UBC016
Matrix: Aqueous
Date Sampled: 07/24/2017 1155
Date Received: 07/24/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010D	1	07/29/2017 0337	DDD	07/25/2017 0841	47384

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	7440-39-3	6010D	0.073		0.025	mg/L	1
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	ND		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	1
Nickel	7440-02-0	6010D	ND		0.040	mg/L	1
Zinc	7440-66-6	6010D	ND		0.020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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CVAA

Client: Smith Gardner, Inc.
Laboratory ID: SG24037-001
Description: UBC016
Matrix: Aqueous
Date Sampled: 07/24/2017 1155
Date Received: 07/24/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	07/27/2017 0434	SLS	07/26/2017 2236	47600

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury	7439-97-6	7470A	ND		0.00020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SG24037-002
Description: PBC004
Matrix: Aqueous
Date Sampled: 07/24/2017 0955
Date Received: 07/24/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	07/24/2017 0955	CAE		
1		(Specific Con) 120.1	1	07/24/2017 0955	CAE		
1		(Temperature) SM 2550B-2010	1	07/24/2017 0955	CAE		
1		(Turbidity -) 180.1	1	07/24/2017 0955	CAE		
1		(Chloride) 300.0	1	08/01/2017 0543	TAF		48122
1		(TDS) SM 2540C-2011	1	07/26/2017 1826	AJG		47559

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	6.37			su	1
Specific Conductance - Field		120.1	100		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	20.0			° C	1
Turbidity - Field		180.1	2.4		1.0	NTU	1
Chloride		300.0	2.6		2.0	mg/L	1
TDS		SM 2540C-20	110		10	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SG24037-002
Description: PBC004
Matrix: Aqueous
Date Sampled: 07/24/2017 0955
Date Received: 07/24/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	07/27/2017 0248	JJG		47611

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		101	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG24037-002
Description: PBC004
Matrix: Aqueous
Date Sampled: 07/24/2017 0955
Date Received: 07/24/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/25/2017 1223	TML		47399

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		91	70-130
Bromofluorobenzene		100	70-130
Toluene-d8		97	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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ICP-AES Metals

Client: Smith Gardner, Inc.
Laboratory ID: SG24037-002
Description: PBC004
Matrix: Aqueous
Date Sampled: 07/24/2017 0955
Date Received: 07/24/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010D	1	07/29/2017 0342	DDD	07/25/2017 0841	47384

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	7440-39-3	6010D	0.068		0.025	mg/L	1
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	ND		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	1
Nickel	7440-02-0	6010D	ND		0.040	mg/L	1
Zinc	7440-66-6	6010D	ND		0.020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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CVAA

Client: Smith Gardner, Inc.
Laboratory ID: SG24037-002
Description: PBC004
Matrix: Aqueous
Date Sampled: 07/24/2017 0955
Date Received: 07/24/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	07/27/2017 0437	SLS	07/26/2017 2236	47600

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury	7439-97-6	7470A	ND		0.00020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SG24037-003
Description: MW022TR
Matrix: Aqueous
Date Sampled: 07/24/2017 1010
Date Received: 07/24/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	07/24/2017 1010	CAE		
1		(Specific Con) 120.1	1	07/24/2017 1010	CAE		
1		(Temperature) SM 2550B-2010	1	07/24/2017 1010	CAE		
1		(Turbidity -) 180.1	1	07/24/2017 1010	CAE		
1		(Chloride) 300.0	1	07/31/2017 1908	TAF		48115
1		(TDS) SM 2540C-2011	1	07/26/2017 1826	AJG		47559

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	6.72			su	1
Specific Conductance - Field		120.1	140		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	20.1			° C	1
Turbidity - Field		180.1	2.8		1.0	NTU	1
Chloride		300.0	3.0		2.0	mg/L	1
TDS		SM 2540C-20	150		10	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SG24037-003
Description: MW022TR
Matrix: Aqueous
Date Sampled: 07/24/2017 1010
Date Received: 07/24/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	5030B	8260B (SIM iso.)	1	07/31/2017 1110	JM1		47936

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	2

Surrogate	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		99	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG24037-003
Description: MW022TR
Matrix: Aqueous
Date Sampled: 07/24/2017 1010
Date Received: 07/24/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/25/2017 1245	TML		47399

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		91	70-130
Bromofluorobenzene		100	70-130
Toluene-d8		97	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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ICP-AES Metals

Client: Smith Gardner, Inc.
Laboratory ID: SG24037-003
Description: MW022TR
Matrix: Aqueous
Date Sampled: 07/24/2017 1010
Date Received: 07/24/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010D	1	07/29/2017 0346	DDD	07/25/2017 0841	47384

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	7440-39-3	6010D	0.045		0.025	mg/L	1
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	ND		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	1
Nickel	7440-02-0	6010D	ND		0.040	mg/L	1
Zinc	7440-66-6	6010D	ND		0.020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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CVAA

Client: Smith Gardner, Inc.
Laboratory ID: SG24037-003
Description: MW022TR
Matrix: Aqueous
Date Sampled: 07/24/2017 1010
Date Received: 07/24/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	07/27/2017 1233	COH	07/26/2017 2236	47600

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury	7439-97-6	7470A	ND		0.00020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SG24037-004
Description: MW023ATR
Matrix: Aqueous
Date Sampled: 07/24/2017 1330
Date Received: 07/24/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	07/24/2017 1330	CAE		
1		(Specific Con) 120.1	1	07/24/2017 1330	CAE		
1		(Temperature) SM 2550B-2010	1	07/24/2017 1330	CAE		
1		(Turbidity -) 180.1	1	07/24/2017 1330	CAE		
1		(Chloride) 300.0	1	07/31/2017 1933	TAF		48115
1		(TDS) SM 2540C-2011	1	07/27/2017 1600	AJG		47634

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	6.2			su	1
Specific Conductance - Field		120.1	160		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	21.8			° C	1
Turbidity - Field		180.1	2.0		1.0	NTU	1
Chloride		300.0	3.2		2.0	mg/L	1
TDS		SM 2540C-20	150		10	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SG24037-004
Description: MW023ATR
Matrix: Aqueous
Date Sampled: 07/24/2017 1330
Date Received: 07/24/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	5030B	8260B (SIM iso.)	1	07/31/2017 1134	JM1		47936

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	2

Surrogate	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		108	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG24037-004
Description: MW023ATR
Matrix: Aqueous
Date Sampled: 07/24/2017 1330
Date Received: 07/24/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/25/2017 1308	TML		47399

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		90	70-130
Bromofluorobenzene		99	70-130
Toluene-d8		95	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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ICP-AES Metals

Client: Smith Gardner, Inc.
Laboratory ID: SG24037-004
Description: MW023ATR
Matrix: Aqueous
Date Sampled: 07/24/2017 1330
Date Received: 07/24/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010D	1	07/29/2017 0351	DDD	07/25/2017 0841	47384

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	7440-39-3	6010D	0.033		0.025	mg/L	1
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	ND		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	1
Nickel	7440-02-0	6010D	ND		0.040	mg/L	1
Zinc	7440-66-6	6010D	ND		0.020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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CVAA

Client: Smith Gardner, Inc.
Laboratory ID: SG24037-004
Description: MW023ATR
Matrix: Aqueous
Date Sampled: 07/24/2017 1330
Date Received: 07/24/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	07/27/2017 1235	COH	07/26/2017 2236	47600

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury	7439-97-6	7470A	ND		0.00020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SG24037-005
Description: UBC029AR
Matrix: Aqueous
Date Sampled: 07/24/2017 1210
Date Received: 07/24/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	07/24/2017 1210	CAE		
1		(Specific Con) 120.1	1	07/24/2017 1210	CAE		
1		(Temperature) SM 2550B-2010	1	07/24/2017 1210	CAE		
1		(Turbidity -) 180.1	1	07/24/2017 1210	CAE		
1		(Chloride) 300.0	1	07/31/2017 1958	TAF		48115
1		(TDS) SM 2540C-2011	1	07/27/2017 1600	AJG		47634

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	6.64			su	1
Specific Conductance - Field		120.1	100		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	22.0			° C	1
Turbidity - Field		180.1	1.7		1.0	NTU	1
Chloride		300.0	2.7		2.0	mg/L	1
TDS		SM 2540C-20	56		10	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SG24037-005
Description: UBC029AR
Matrix: Aqueous
Date Sampled: 07/24/2017 1210
Date Received: 07/24/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	07/27/2017 0400	JJG		47611

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		102	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG24037-005
Description: UBC029AR
Matrix: Aqueous
Date Sampled: 07/24/2017 1210
Date Received: 07/24/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/25/2017 1331	TML		47399

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		92	70-130
Bromofluorobenzene		98	70-130
Toluene-d8		97	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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ICP-AES Metals

Client: Smith Gardner, Inc.
Laboratory ID: SG24037-005
Description: UBC029AR
Matrix: Aqueous
Date Sampled: 07/24/2017 1210
Date Received: 07/24/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010D	1	07/29/2017 0355	DDD	07/25/2017 0841	47384

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	7440-39-3	6010D	0.059		0.025	mg/L	1
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	ND		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	1
Nickel	7440-02-0	6010D	ND		0.040	mg/L	1
Zinc	7440-66-6	6010D	ND		0.020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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CVAA

Client: Smith Gardner, Inc.
Laboratory ID: SG24037-005
Description: UBC029AR
Matrix: Aqueous
Date Sampled: 07/24/2017 1210
Date Received: 07/24/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	07/27/2017 1237	COH	07/26/2017 2236	47600

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury	7439-97-6	7470A	ND		0.00020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SG24037-006
Description: MW027BTR
Matrix: Aqueous
Date Sampled: 07/24/2017 1305
Date Received: 07/24/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	07/24/2017 1305	CAE		
1		(Specific Con) 120.1	1	07/24/2017 1305	CAE		
1		(Temperature) SM 2550B-2010	1	07/24/2017 1305	CAE		
1		(Turbidity -) 180.1	1	07/24/2017 1305	CAE		
1		(Chloride) 300.0	1	07/31/2017 2023	TAF		48115
1		(TDS) SM 2540C-2011	1	07/27/2017 1600	AJG		47634

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	6.18			su	1
Specific Conductance - Field		120.1	160		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	24.8			° C	1
Turbidity - Field		180.1	7.4		1.0	NTU	1
Chloride		300.0	2.8		2.0	mg/L	1
TDS		SM 2540C-20	200		10	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SG24037-006
Description: MW027BTR
Matrix: Aqueous
Date Sampled: 07/24/2017 1305
Date Received: 07/24/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	5030B	8260B (SIM iso.)	1	07/31/2017 1223	JM1		47936

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	2

Surrogate	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		112	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG24037-006
Description: MW027BTR
Matrix: Aqueous
Date Sampled: 07/24/2017 1305
Date Received: 07/24/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/25/2017 1354	TML		47399

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		91	70-130
Bromofluorobenzene		98	70-130
Toluene-d8		96	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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ICP-AES Metals

Client: Smith Gardner, Inc.
Laboratory ID: SG24037-006
Description: MW027BTR
Matrix: Aqueous
Date Sampled: 07/24/2017 1305
Date Received: 07/24/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010D	1	07/29/2017 0408	DDD	07/25/2017 0841	47384

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	7440-39-3	6010D	ND		0.025	mg/L	1
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	ND		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	1
Nickel	7440-02-0	6010D	ND		0.040	mg/L	1
Zinc	7440-66-6	6010D	ND		0.020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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CVAA

Client: Smith Gardner, Inc.
Laboratory ID: SG24037-006
Description: MW027BTR
Matrix: Aqueous
Date Sampled: 07/24/2017 1305
Date Received: 07/24/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	07/27/2017 1240	COH	07/26/2017 2236	47600

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury	7439-97-6	7470A	ND		0.00020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SG24037-007
Description: MW028A
Matrix: Aqueous
Date Sampled: 07/24/2017 1440
Date Received: 07/24/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	07/24/2017 1440	CAE		
1		(Specific Con) 120.1	1	07/24/2017 1440	CAE		
1		(Temperature) SM 2550B-2010	1	07/24/2017 1440	CAE		
1		(Turbidity -) 180.1	1	07/24/2017 1440	CAE		
1		(Chloride) 300.0	1	07/31/2017 2048	TAF		48115
1		(TDS) SM 2540C-2011	1	07/27/2017 1600	AJG		47634

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	6.09			su	1
Specific Conductance - Field		120.1	140		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	23.2			° C	1
Turbidity - Field		180.1	2.3		1.0	NTU	1
Chloride		300.0	2.9		2.0	mg/L	1
TDS		SM 2540C-20	170		10	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SG24037-007
Description: MW028A
Matrix: Aqueous
Date Sampled: 07/24/2017 1440
Date Received: 07/24/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	5030B	8260B (SIM iso.)	1	07/31/2017 1247	JM1		47936

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	2

Surrogate	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		107	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG24037-007
Description: MW028A
Matrix: Aqueous
Date Sampled: 07/24/2017 1440
Date Received: 07/24/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/25/2017 1417	TML		47399

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		92	70-130
Bromofluorobenzene		100	70-130
Toluene-d8		96	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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ICP-AES Metals

Client: Smith Gardner, Inc.
Laboratory ID: SG24037-007
Description: MW028A
Matrix: Aqueous
Date Sampled: 07/24/2017 1440
Date Received: 07/24/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010D	1	07/29/2017 0413	DDD	07/25/2017 0841	47384

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	7440-39-3	6010D	ND		0.025	mg/L	1
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	0.011		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	1
Nickel	7440-02-0	6010D	ND		0.040	mg/L	1
Zinc	7440-66-6	6010D	ND		0.020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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CVAA

Client: Smith Gardner, Inc.
Laboratory ID: SG24037-007
Description: MW028A
Matrix: Aqueous
Date Sampled: 07/24/2017 1440
Date Received: 07/24/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	07/27/2017 1243	COH	07/26/2017 2236	47600

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury	7439-97-6	7470A	ND		0.00020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SG24037-008
Description: MW050T
Matrix: Aqueous
Date Sampled: 07/24/2017 1420
Date Received: 07/24/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	07/24/2017 1420	CAE		
1		(Specific Con) 120.1	1	07/24/2017 1420	CAE		
1		(Temperature) SM 2550B-2010	1	07/24/2017 1420	CAE		
1		(Turbidity -) 180.1	1	07/24/2017 1420	CAE		
1		(Chloride) 300.0	1	07/31/2017 2113	TAF		48115
1		(TDS) SM 2540C-2011	1	07/27/2017 1600	AJG		47634

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	6.21			su	1
Specific Conductance - Field		120.1	110		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	24.9			° C	1
Turbidity - Field		180.1	5.9		1.0	NTU	1
Chloride		300.0	ND		2.0	mg/L	1
TDS		SM 2540C-20	110		10	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SG24037-008
Description: MW050T
Matrix: Aqueous
Date Sampled: 07/24/2017 1420
Date Received: 07/24/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	5030B	8260B (SIM iso.)	1	07/31/2017 1312	JM1		47936

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	2

Surrogate	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		111	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

Shealy Environmental Services, Inc.
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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG24037-008
Description: MW050T
Matrix: Aqueous
Date Sampled: 07/24/2017 1420
Date Received: 07/24/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/25/2017 1440	TML		47399

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		90	70-130
Bromofluorobenzene		98	70-130
Toluene-d8		95	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
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N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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ICP-AES Metals

Client: Smith Gardner, Inc.
Laboratory ID: SG24037-008
Description: MW050T
Matrix: Aqueous
Date Sampled: 07/24/2017 1420
Date Received: 07/24/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010D	1	07/29/2017 0417	DDD	07/25/2017 0841	47384

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	7440-39-3	6010D	0.063		0.025	mg/L	1
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	ND		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	1
Nickel	7440-02-0	6010D	ND		0.040	mg/L	1
Zinc	7440-66-6	6010D	ND		0.020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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CVAA

Client: Smith Gardner, Inc.
Laboratory ID: SG24037-008
Description: MW050T
Matrix: Aqueous
Date Sampled: 07/24/2017 1420
Date Received: 07/24/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	07/27/2017 1245	COH	07/26/2017 2236	47600

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury	7439-97-6	7470A	ND		0.00020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SG24037-009
Description: MW051T
Matrix: Aqueous
Date Sampled: 07/24/2017 1400
Date Received: 07/24/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	07/24/2017 1400	CAE		
1		(Specific Con) 120.1	1	07/24/2017 1400	CAE		
1		(Temperature) SM 2550B-2010	1	07/24/2017 1400	CAE		
1		(Turbidity -) 180.1	1	07/24/2017 1400	CAE		
1		(Chloride) 300.0	1	07/31/2017 2138	TAF		48115
1		(TDS) SM 2540C-2011	1	07/27/2017 1600	AJG		47634

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	6.3			su	1
Specific Conductance - Field		120.1	120		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	24.3			° C	1
Turbidity - Field		180.1	5.7		1.0	NTU	1
Chloride		300.0	ND		2.0	mg/L	1
TDS		SM 2540C-20	120		10	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SG24037-009
Description: MW051T
Matrix: Aqueous
Date Sampled: 07/24/2017 1400
Date Received: 07/24/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	5030B	8260B (SIM iso.)	1	07/31/2017 1337	JM1		47936

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	2

Surrogate	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		108	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG24037-009
Description: MW051T
Matrix: Aqueous
Date Sampled: 07/24/2017 1400
Date Received: 07/24/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/25/2017 1502	TML		47399

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		90	70-130
Bromofluorobenzene		100	70-130
Toluene-d8		95	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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ICP-AES Metals

Client: Smith Gardner, Inc.
Laboratory ID: SG24037-009
Description: MW051T
Matrix: Aqueous
Date Sampled: 07/24/2017 1400
Date Received: 07/24/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010D	1	07/29/2017 0422	DDD	07/25/2017 0841	47384

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	7440-39-3	6010D	0.062		0.025	mg/L	1
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	ND		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	1
Nickel	7440-02-0	6010D	ND		0.040	mg/L	1
Zinc	7440-66-6	6010D	ND		0.020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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CVAA

Client: Smith Gardner, Inc.
Laboratory ID: SG24037-009
Description: MW051T
Matrix: Aqueous
Date Sampled: 07/24/2017 1400
Date Received: 07/24/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	07/27/2017 1248	COH	07/26/2017 2236	47600

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury	7439-97-6	7470A	ND		0.00020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SG24037-010
Description: MW024TR
Matrix: Aqueous
Date Sampled: 07/24/2017 1400
Date Received: 07/24/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	07/24/2017 1400	CAE		
1		(Specific Con) 120.1	1	07/24/2017 1400	CAE		
1		(Temperature) SM 2550B-2010	1	07/24/2017 1400	CAE		
1		(Turbidity -) 180.1	1	07/24/2017 1400	CAE		
1		(Chloride) 300.0	1	07/31/2017 2203	TAF		48115
1		(TDS) SM 2540C-2011	1	07/27/2017 1600	AJG		47634

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	5.93			su	1
Specific Conductance - Field		120.1	150		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	23.9			° C	1
Turbidity - Field		180.1	16		1.0	NTU	1
Chloride		300.0	5.3		2.0	mg/L	1
TDS		SM 2540C-20	170		10	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SG24037-010
Description: MW024TR
Matrix: Aqueous
Date Sampled: 07/24/2017 1400
Date Received: 07/24/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	5030B	8260B (SIM iso.)	1	07/31/2017 1401	JM1		47936

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	2

Surrogate	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		110	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG24037-010
Description: MW024TR
Matrix: Aqueous
Date Sampled: 07/24/2017 1400
Date Received: 07/24/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/25/2017 1525	TML		47399

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		92	70-130
Bromofluorobenzene		100	70-130
Toluene-d8		95	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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ICP-AES Metals

Client: Smith Gardner, Inc.
Laboratory ID: SG24037-010
Description: MW024TR
Matrix: Aqueous
Date Sampled: 07/24/2017 1400
Date Received: 07/24/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010D	1	07/29/2017 0426	DDD	07/25/2017 0841	47384

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	7440-39-3	6010D	ND		0.025	mg/L	1
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	ND		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	1
Nickel	7440-02-0	6010D	ND		0.040	mg/L	1
Zinc	7440-66-6	6010D	ND		0.020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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CVAA

Client: Smith Gardner, Inc.
Laboratory ID: SG24037-010
Description: MW024TR
Matrix: Aqueous
Date Sampled: 07/24/2017 1400
Date Received: 07/24/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	07/27/2017 1250	COH	07/26/2017 2236	47600

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury	7439-97-6	7470A	ND		0.00020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SG24037-011
Description: MW026ATR
Matrix: Aqueous
Date Sampled: 07/24/2017 1350
Date Received: 07/24/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	07/24/2017 1350	CAE		
1		(Specific Con) 120.1	1	07/24/2017 1350	CAE		
1		(Temperature) SM 2550B-2010	1	07/24/2017 1350	CAE		
1		(Turbidity -) 180.1	1	07/24/2017 1350	CAE		
1		(Chloride) 300.0	1	08/01/2017 0008	TAF		48115
1		(TDS) SM 2540C-2011	1	07/27/2017 1600	AJG		47634

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	6.73			su	1
Specific Conductance - Field		120.1	190		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	21.9			° C	1
Turbidity - Field		180.1	25		1.0	NTU	1
Chloride		300.0	5.6		2.0	mg/L	1
TDS		SM 2540C-20	340		10	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SG24037-011
Description: MW026ATR
Matrix: Aqueous
Date Sampled: 07/24/2017 1350
Date Received: 07/24/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	5030B	8260B (SIM iso.)	1	07/31/2017 1426	JM1		47936

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	2

Surrogate	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		110	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG24037-011
Description: MW026ATR
Matrix: Aqueous
Date Sampled: 07/24/2017 1350
Date Received: 07/24/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/25/2017 1548	TML		47399

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		91	70-130
Bromofluorobenzene		101	70-130
Toluene-d8		96	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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ICP-AES Metals

Client: Smith Gardner, Inc.
Laboratory ID: SG24037-011
Description: MW026ATR
Matrix: Aqueous
Date Sampled: 07/24/2017 1350
Date Received: 07/24/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010D	1	07/29/2017 0431	DDD	07/25/2017 0841	47384

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	7440-39-3	6010D	0.034		0.025	mg/L	1
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	0.024		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	1
Nickel	7440-02-0	6010D	ND		0.040	mg/L	1
Zinc	7440-66-6	6010D	ND		0.020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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CVAA

Client: Smith Gardner, Inc.
Laboratory ID: SG24037-011
Description: MW026ATR
Matrix: Aqueous
Date Sampled: 07/24/2017 1350
Date Received: 07/24/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	07/27/2017 1252	COH	07/26/2017 2236	47600

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury	7439-97-6	7470A	ND		0.00020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG24037-012
Description: field blank
Matrix: Aqueous
Date Sampled: 07/24/2017 1015
Date Received: 07/24/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/25/2017 1115	TML		47399

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		90	70-130
Bromofluorobenzene		98	70-130
Toluene-d8		96	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG24037-013
Description: trip blank
Matrix: Aqueous
Date Sampled: 07/24/2017
Date Received: 07/24/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/25/2017 1137	TML		47399

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		93	70-130
Bromofluorobenzene		98	70-130
Toluene-d8		97	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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QC Summary

Inorganic non-metals - MB

Sample ID: SQ47559-001
Batch: 47559
Analytical Method: SM 2540C-2011

Matrix: Aqueous

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
TDS	ND		1	10	mg/L	07/26/2017 1826

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - LCS

Sample ID: SQ47559-002
Batch: 47559
Analytical Method: SM 2540C-2011

Matrix: Aqueous

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
TDS	1500	1500		1	100	90-110	07/26/2017 1826

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - MB

Sample ID: SQ47634-001
Batch: 47634
Analytical Method: SM 2540C-2011

Matrix: Aqueous

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
TDS	ND		1	10	mg/L	07/27/2017 1600

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - LCS

Sample ID: SQ47634-002
Batch: 47634
Analytical Method: SM 2540C-2011

Matrix: Aqueous

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
TDS	1500	1500		1	98	90-110	07/27/2017 1600

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - MB

Sample ID: SQ48115-001
Batch: 48115
Analytical Method: 300.0

Matrix: Aqueous

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
Chloride	ND		1	2.0	mg/L	07/31/2017 1818

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - LCS

Sample ID: SQ48115-002
Batch: 48115
Analytical Method: 300.0
Matrix: Aqueous

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Chloride	20	20		1	99	90-110	07/31/2017 1843

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ
N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - MS

Sample ID: SG24037-010MS
Batch: 48115
Analytical Method: 300.0
Matrix: Aqueous

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Chloride	5.3	20	24		1	91	90-110	07/31/2017 2228

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ
N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - MSD

Sample ID: SG24037-010MD
Batch: 48115
Analytical Method: 300.0
Matrix: Aqueous

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Chloride	5.3	20	25		1	97	4.9	90-110	20	07/31/2017 2343

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ
N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - MB

Sample ID: SQ48122-001
Batch: 48122
Analytical Method: 300.0

Matrix: Aqueous

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
Chloride	ND		1	2.0	mg/L	07/31/2017 1806

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - LCS

Sample ID: SQ48122-002
Batch: 48122
Analytical Method: 300.0

Matrix: Aqueous

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Chloride	20	20		1	99	90-110	07/31/2017 1830

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - MB

Sample ID: SQ47399-001
Batch: 47399
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
Acrolein	ND		1	20	ug/L	07/25/2017 0957
Acrylonitrile	ND		1	20	ug/L	07/25/2017 0957
Benzene	ND		1	5.0	ug/L	07/25/2017 0957
Bromodichloromethane	ND		1	5.0	ug/L	07/25/2017 0957
Bromoform	ND		1	5.0	ug/L	07/25/2017 0957
Bromomethane (Methyl bromide)	ND		1	10	ug/L	07/25/2017 0957
Carbon tetrachloride	ND		1	5.0	ug/L	07/25/2017 0957
Chlorobenzene	ND		1	5.0	ug/L	07/25/2017 0957
Chloroethane	ND		1	10	ug/L	07/25/2017 0957
2-Chloroethylvinylether	ND		1	10	ug/L	07/25/2017 0957
Chloroform	ND		1	5.0	ug/L	07/25/2017 0957
Chloromethane (Methyl chloride)	ND		1	10	ug/L	07/25/2017 0957
Dibromochloromethane	ND		1	10	ug/L	07/25/2017 0957
1,1-Dichloroethane	ND		1	5.0	ug/L	07/25/2017 0957
1,2-Dichloroethane	ND		1	5.0	ug/L	07/25/2017 0957
1,1-Dichloroethene	ND		1	5.0	ug/L	07/25/2017 0957
cis-1,2-Dichloroethene	ND		1	5.0	ug/L	07/25/2017 0957
trans-1,2-Dichloroethene	ND		1	5.0	ug/L	07/25/2017 0957
1,2-Dichloropropane	ND		1	5.0	ug/L	07/25/2017 0957
cis-1,3-Dichloropropene	ND		1	5.0	ug/L	07/25/2017 0957
trans-1,3-Dichloropropene	ND		1	5.0	ug/L	07/25/2017 0957
Ethylbenzene	ND		1	5.0	ug/L	07/25/2017 0957
Methylene chloride	ND		1	5.0	ug/L	07/25/2017 0957
1,1,2,2-Tetrachloroethane	ND		1	5.0	ug/L	07/25/2017 0957
Tetrachloroethene	ND		1	5.0	ug/L	07/25/2017 0957
Toluene	ND		1	5.0	ug/L	07/25/2017 0957
1,1,1-Trichloroethane	ND		1	5.0	ug/L	07/25/2017 0957
1,1,2-Trichloroethane	ND		1	5.0	ug/L	07/25/2017 0957
Trichloroethene	ND		1	5.0	ug/L	07/25/2017 0957
Vinyl chloride	ND		1	2.0	ug/L	07/25/2017 0957

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		92	70-130
Bromofluorobenzene		99	70-130
Toluene-d8		98	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - LCS

Sample ID: SQ47399-002
Batch: 47399
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acrolein	500	410		1	83	60-140	07/25/2017 0901
Acrylonitrile	100	85		1	85	70-130	07/25/2017 0901
Benzene	50	50		1	100	70-130	07/25/2017 0901
Bromodichloromethane	50	50		1	99	70-130	07/25/2017 0901
Bromoform	50	48		1	95	70-130	07/25/2017 0901
Bromomethane (Methyl bromide)	50	55		1	110	70-130	07/25/2017 0901
Carbon tetrachloride	50	53		1	106	70-130	07/25/2017 0901
Chlorobenzene	50	48		1	96	70-130	07/25/2017 0901
Chloroethane	50	58		1	116	70-130	07/25/2017 0901
Chloroform	50	51		1	102	70-130	07/25/2017 0901
Chloromethane (Methyl chloride)	50	59		1	118	60-140	07/25/2017 0901
Dibromochloromethane	50	48		1	96	70-130	07/25/2017 0901
1,1-Dichloroethane	50	50		1	100	70-130	07/25/2017 0901
1,2-Dichloroethane	50	47		1	93	70-130	07/25/2017 0901
1,1-Dichloroethene	50	58		1	116	70-130	07/25/2017 0901
cis-1,2-Dichloroethene	50	51		1	102	70-130	07/25/2017 0901
trans-1,2-Dichloroethene	50	52		1	105	70-130	07/25/2017 0901
1,2-Dichloropropane	50	50		1	100	70-130	07/25/2017 0901
cis-1,3-Dichloropropene	50	51		1	102	70-130	07/25/2017 0901
trans-1,3-Dichloropropene	50	47		1	95	70-130	07/25/2017 0901
Ethylbenzene	50	49		1	99	70-130	07/25/2017 0901
Methylene chloride	50	51		1	102	70-130	07/25/2017 0901
1,1,2,2-Tetrachloroethane	50	46		1	91	70-130	07/25/2017 0901
Tetrachloroethene	50	50		1	100	70-130	07/25/2017 0901
Toluene	50	50		1	100	70-130	07/25/2017 0901
1,1,1-Trichloroethane	50	53		1	106	70-130	07/25/2017 0901
1,1,2-Trichloroethane	50	44		1	88	70-130	07/25/2017 0901
Trichloroethene	50	52		1	104	70-130	07/25/2017 0901
Vinyl chloride	50	58		1	116	70-130	07/25/2017 0901

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		90	70-130
Bromofluorobenzene		98	70-130
Toluene-d8		97	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution) - MB

Sample ID: SQ47611-001
Batch: 47611
Analytical Method: 8260B (SIM iso.)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
1,4-Dioxane	ND		1	3.0	ug/L	07/26/2017 2223

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		97	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution) - LCS

Sample ID: SQ47611-002
Batch: 47611
Analytical Method: 8260B (SIM iso.)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,4-Dioxane	50	45		1	89	70-130	07/26/2017 2134

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		97	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution) - LCSD

Sample ID: SQ47611-003
Batch: 47611
Analytical Method: 8260B (SIM iso.)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
1,4-Dioxane	50	45		1	90	1.5	70-130	20	07/26/2017 2158

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		97	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution) - MB

Sample ID: SQ47936-001
Batch: 47936
Analytical Method: 8260B (SIM iso.)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
1,4-Dioxane	ND		1	3.0	ug/L	07/31/2017 1034

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		105	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution) - LCS

Sample ID: SQ47936-002
Batch: 47936
Analytical Method: 8260B (SIM iso.)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,4-Dioxane	50	49		1	99	70-130	07/31/2017 0928

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		106	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution) - LCSD

Sample ID: SQ47936-003
Batch: 47936
Analytical Method: 8260B (SIM iso.)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
1,4-Dioxane	50	49		1	99	0.11	70-130	20	07/31/2017 0952

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		106	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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ICP-AES Metals - MB

Sample ID: SQ47384-001
Batch: 47384
Analytical Method: 6010D

Matrix: Aqueous
Prep Method: 3005A
Prep Date: 07/25/2017 841

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
Arsenic	ND		1	0.015	mg/L	07/29/2017 0111
Barium	ND		1	0.025	mg/L	07/29/2017 0111
Cadmium	ND		1	0.0050	mg/L	07/29/2017 0111
Chromium	ND		1	0.010	mg/L	07/29/2017 0111
Lead	ND		1	0.010	mg/L	07/29/2017 0111
Nickel	ND		1	0.040	mg/L	07/29/2017 0111
Zinc	ND		1	0.020	mg/L	07/29/2017 0111

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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ICP-AES Metals - LCS

Sample ID: SQ47384-002
Batch: 47384
Analytical Method: 6010D

Matrix: Aqueous
Prep Method: 3005A
Prep Date: 07/25/2017 841

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Arsenic	0.40	0.43		1	107	80-120	07/29/2017 0116
Barium	2.0	2.1		1	107	80-120	07/29/2017 0116
Cadmium	0.40	0.41		1	103	80-120	07/29/2017 0116
Chromium	2.0	2.1		1	104	80-120	07/29/2017 0116
Lead	0.40	0.42		1	104	80-120	07/29/2017 0116
Nickel	2.0	2.1		1	106	80-120	07/29/2017 0116
Zinc	2.0	2.0		1	102	80-120	07/29/2017 0116

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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CVAA - MB

Sample ID: SQ47600-001
Batch: 47600
Analytical Method: 7470A

Matrix: Aqueous
Prep Method: 7470A
Prep Date: 07/26/2017 2236

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
Mercury	ND		1	0.00020	mg/L	07/27/2017 0429

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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CVAA - LCS

Sample ID: SQ47600-002
Batch: 47600
Analytical Method: 7470A

Matrix: Aqueous
Prep Method: 7470A
Prep Date: 07/26/2017 2236

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Mercury	0.0020	0.0021		1	105	80-120	07/27/2017 0432

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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CVAA - MS

Sample ID: SG24037-002MS
Batch: 47600
Analytical Method: 7470A

Matrix: Aqueous
Prep Method: 7470A
Prep Date: 07/26/2017 2236

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Mercury	ND	0.0020	0.0021		1	107	85-115	07/27/2017 0440

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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CVAA - MSD

Sample ID: SG24037-002MD
Batch: 47600
Analytical Method: 7470A

Matrix: Aqueous
Prep Method: 7470A
Prep Date: 07/26/2017 2236

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Mercury	ND	0.0020	0.0021		1	105	1.9	85-115	20	07/27/2017 0442

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Chain of Custody
and
Miscellaneous Documents

Shealy Environmental Services, Inc.
106 Vantage Point Drive
West Columbia, South Carolina 29172
Telephone No. (803) 791-9700 Fax No. (803) 791-9111
www.shealylab.com

Chain of Custody Record

Number

Client	Report to Contact	Telephone No. / Fax No. / Email	Quote No.
Smith Gardner	Kevin Anderson	919-828-0577	15127
Address 14 North Bolyan Ave	**Sampler's Signature** x Brit Ransom	**Waybill No.**	**Page** 1 of 2
City Raleigh **State** NC **Zip Code** 27603	**Printed Name** Brian RANSOM		
Project Name Pinewood Detection Monitoring (GW)			
Project Number	**P.O Number** 2017		

SG24037

Sample ID / Description (Containers for each sample may be combined on one line)	Date	Time	C=Grab C=Composite	Matrix: Aqueous	Solid	Non-Aq.	No. of Containers by Preservation Type: Unpres.	H2SO4	HNO3	HCL	NaOH	5035 kit	NaOH+Zn	Analysis: VOC	1,4-Dioxane SIM	Metals + Hg - As,Ba,Cd,Cr,Pb,Ni,Z	Chloride/TDS
UBC 016	7/24	1155	G	x			2		1	6				✓	✓	✓	✓
PBC 02 4	7/24	955												✓	✓	✓	✓
MW022 TR	7/24	1010												✓	✓	✓	✓
MW023 ATR	7/24	1330												✓	✓	✓	✓
UBC029 AR	7/24	1210												✓	✓	✓	✓
MW027 BTR	7/24	1305												✓	✓	✓	✓
MW028A	7/24	1440												✓	✓	✓	✓
MW050T	7/24	1420												✓	✓	✓	✓
MW051T	7/24	1400												✓	✓	✓	✓
MW024 TR	7/24	1400	G	x			x		x	x	x			✓	✓	✓	✓

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown

Sample Disposal
☐ Return to Client ☒ Disposal by Lab

Note: All samples are retained for six weeks from receipt unless other arrangements are made

Turn Around Time Required (Prior lab approval required for expedited TAT)
☒ Standard ☐ Rush (Please Specify)

QC Requirements (Please Specify)

1. Relinquished by Brian Ransom	Date 7/24/17	Time 1525	1. Received by	Date 7/24/17	Time 1525
2. Relinquished by	Date	Time	2. Received by	Date	Time
3. Relinquished by	Date 7/24/17	Time 1715	3. Laboratory Received by Evan Cole	Date 7-24-17	Time 1715

Comments

LAB USE ONLY
Received on Ice (Check) ☑ Y ☐ N ☐ Ice Pack

Receipt Temp. 6 °C

Document Number: F-AD-104 Effective Date 08-10-10

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Telephone No. (803) 791-9700 Fax No. (803) 791-9111
www.shealylab.com

Chain of Custody Record

Number

Client	Report to Contact	Telephone No. / Fax No. / Email	Quote No.
Smith Gardner	Kevin Anderson	919-828-0577	15127
Address	**Sampler's Signature**	**Waybill No.**	**Page** 2 of 2
14 North Bolyan Ave	x Brit Ranson		
City / State / Zip Code	**Printed Name**		
Raleigh / NC / 27603	Brit Ranson		
Project Name			
Pinewood Detection Monitoring (GW)			
Project Number	**P.O Number**		

Analysis (Attach list if more space is needed)

Lot No. SG24037

Sample ID / Description (Containers for each sample may be combined on one line)	Date (2017)	Time	G=Grab C=Composite	Matrix: Aqueous	Solid	Non-Aq.	No. of Containers by Preservation Type: Unpres.	H2SO4	HNO3	HCl	NaOH	5035 Kit	NaOH+ZN	VOC	1,4-Dioxane SIM	Metals + Hg - As,Ba,Cd,Cr,Pb,Ni,Z	Chloride/TDS
MW 026 ATR	7/24	1350	G	x			2		1	6				✓	✓	✓	✓
field blank	7/24	1015		x			1			3				✓			
trip blank				x			2							✓			

Possible Hazard Identification
[X] Non-Hazard [ ] Flammable [ ] Skin Irritant [ ] Poison [ ] Unknown

Sample Disposal
[ ] Return to Client [X] Disposal by Lab

Note: All samples are retained for six weeks from receipt unless other arrangements are made

Turn Around Time Required (Prior lab approval required for expedited TAT)
[X] Standard [ ] Rush (Please Specify)

QC Requirements (Please Specify)

	Date	Time		Date	Time
1. Relinquished by: Brit Ranson	7/24/17	1525	1. Received by:	7/24/17	1525
2. Relinquished by	Date	Time	2. Received by	Date	Time
3. Relinquished by	7/24/17	1715	3. Laboratory Received by: Evan Cobb	7-24-17	1715

Comments

LAB USE ONLY
Received on Ice (Check) [X] Y [ ] N [ ] Ice Pack

Receipt Temp. 6 °C

Document Number: F-AD-104 Effective Date 08-10-10

Shealy Environmental Services, Inc
Document Number: ME0018C-08

Page 1 of 1
Effective Date: 03/07/2017
Expiry Date: 03/07/2022

Sample Receipt Checklist (SRC)

Client: Smith Gardner Cooler Inspected by/date: ELC 7-24-17 Lot #: SG24037

Means of receipt: ☑ SESI ☐ Client ☐ UPS ☐ FedEx ☐ Other ____

Yes ☐	No ☑		1. Were custody seals present on the cooler?
Yes ☐	No ☐	NA ☑	2. If custody seals were present, were they intact and unbroken?

pH strip ID: 17-1172 Cl strip ID: ____
Cooler ID/Original temperature upon receipt/Derived (corrected) temperature upon receipt:
/ / °C / 6 / 6 °C / / °C / / °C
Method: ☑ Temperature Blank ☐ Against Bottles IR Gun ID: 6 IR Gun Correction Factor: 0 °C
Method of coolant: ☑ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ None

Yes ☐	No ☐	NA ☑	3. If temperature of any cooler exceeded 6.0°C, was Project Manager Notified? PM was Notified by: phone / email / face-to-face (circle one).
Yes ☐	No ☐	NA ☑	4. Is the commercial courier's packing slip attached to this form?
Yes ☑	No ☐		5. Were proper custody procedures (relinquished/received) followed?
Yes ☑	No ☐		6. Were sample IDs listed on the COC?
Yes ☑	No ☐		7. Were sample IDs listed on all sample containers?
Yes ☑	No ☐		8. Was collection date & time listed on the COC?
Yes ☑	No ☐		9. Was collection date & time listed on all sample containers?
Yes ☑	No ☐		10. Did all container label information (ID, date, time) agree with the COC?
Yes ☑	No ☐		11. Were tests to be performed listed on the COC?
Yes ☒ (ELC 7-24-17)	No ☑		12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)? Rec 6 HCl + 1 NP
Yes ☑	No ☐		13. Was adequate sample volume available?
Yes ☑	No ☐		14. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes ☐	No ☑		15. Were any samples containers missing/excess (circle one) samples Not listed on COC?
Yes ☑	No ☐	NA ☐	16. Were bubbles present >"pea-size" (¼"or 6mm in diameter) in any VOA vials?
Yes ☑	No ☐	NA ☐	17. Were all DRO/metals/nutrient samples received at a pH of < 2?
Yes ☐	No ☐	NA ☑	18. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9?
Yes ☐	No ☐	NA ☑	19. Were all applicable NH3/TKN/cyanide/phenol/BNA (< 0.5mg/L) samples free of residual chlorine?
Yes ☐	No ☐	NA ☑	20. Were collection temperatures documented on the COC for NC samples?
Yes ☐	No ☐	NA ☑	21. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc…) correctly transcribed from the COC into the comment section in LIMS?
Yes ☐	No ☑		22. Was the quote number used taken from the container label?

Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s) ____ were received incorrectly preserved and were adjusted accordingly in sample receiving with ____ (H_2SO_4, HNO_3, HCl, NaOH) using SR # ____.

Sample(s) PBC004(1), MW24TR(2), MW26ATR(1) were received with bubbles >6 mm in diameter.

Samples(s) ____ were received with TRC > 0.5 mg/L (If #21 is No) and were adjusted accordingly in sample receiving with sodium thiosulfate ($Na_2S_2O_3$) with Shealy ID: ____.

SC Drinking Water Project Sample(s) pH verified to be < 2 by ____ Date: ____

Sample(s) ____ were Not received at a pH of < 2 and were adjusted accordingly using SR#

Sample labels applied by: ELC Verified by: ____ Date: 7-24-17

Comments: ____

4"

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID UBC-016 Sample Time 1155

Field Personnel LE, BR, FO, WW Sample Date 7/24/17

Weather Conditions OVERCAST Air Temperature (°F) 85

Total Depth (ft.) 101.00 (from well log) LWC: 47.72

Depth to Static Water Surface (ft.) ~~47.21~~ 53.28

Calculated Well Volume (1 casing volume) (gal.) ~~110~~ 32

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 160

Measured Flow Rate (gal/min) 1.0

Calculated Pumping Time (length of time in minutes) 160

Actual Pumping Time (length of time in minutes) 200

Check-back Time 0915

Recovery Time (if needed) NA

pH Calibration During Purging (4.0, 7, 10) (circle two) Actual Reading 4.01/7.01 pH

pH Calibration During Sampling (4.0, 7, 10) (circle two) Actual Reading 4.01/7.01 pH 7/24/17 Date

Purge Start Time	0835	Purge Stop Time	1155
Purge Date	7/24/17	Total Gallons Purged	96
Purge Method	WW		

	Well Volume Units	Initial	1	2	3	4	5
Volume Purged	gal.	—	~~1020~~ 32	64	96		
Time	-	0835	1020	1100	1155		
Temperature	°C	20.2	20.1	20.8	20.7		
pH	Std. units	6.72	6.71	6.40	6.46		
Conductivity	µmhos/cm	110	110	110	120		
Turbidity	NTUs	—	—	—	1.61		

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☑ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☐
VOC	Yes ☑ No ☐	Cyanide (NaOH)	Yes ☐ No ☐
Metals (HNO_3)	Yes ☑ No ☐	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☐
Rinsate Blank	Yes ☐ No ☑	Field Blank	Yes ☐ No ☐
Metals verified (<2 pH)	Yes ☑ No ☐ (10% of samples verified per SAP)		

#102

2"

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID PBC-004 Sample Time 0955

Field Personnel CE, BR, SD, WV Sample Date ~~8~~ 7/24/17

Weather Conditions OVERCAST Air Temperature (°F) 85

Total Depth (ft.) 105.00 (from well log) 2wc: 50.36

Depth to Static Water Surface (ft.) 54.64

Calculated Well Volume (1 casing volume) (gal.) ~~0.5~~ 9

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 45

Measured Flow Rate (gal/min) 0.5

Calculated Pumping Time (length of time in minutes) 90

Actual Pumping Time (length of time in minutes) _____

Check-back Time 0840

Recovery Time (if needed) NA

pH Calibration During Purging (4, 7, 10) (circle two) Actual Reading 4.01/7.01 pH

pH Calibration During Sampling (4, 7, 10) (circle two) Actual Reading 4.01/7.01 pH 7/24/17 Date

Purge Start Time	0820	Purge Stop Time	0955
Purge Date	7/24/17	Total Gallons Purged	27
Purge Method	WV		

	Well Volume Units	Initial	1	2	3	4	5
Volume Purged	gal.	—	9	18	27		
Time	-	0820	0855	0935	0955		
Temperature	°C	20.0	21.4	20.2	20.0		
pH	Std. units	5.52	6.72	6.27	6.37		
Conductivity	µmhos/cm	100	100	100	100		
Turbidity	NTUs	—	—	—	2.41		

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☒	No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐	No ☒
VOC	Yes ☒	No ☐	Cyanide (NaOH)	Yes ☐	No ☒
Metals (HNO_3)	Yes ☒	No ☐	Dioxins / Furans (sodium thiosulfate)	Yes ☐	No ☒
Rinsate Blank	Yes ☐	No ☒	Field Blank	Yes ☐	No ☒
Metals verified (<2 pH)	Yes ☒	No ☐	(10% of samples verified per SAP)		

4"

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID MW-022TR Sample Time 1010

Field Personnel CE/BR, FO, WW Sample Date 7/24/17

Weather Conditions OVERCAST Air Temperature (°F) 85

Total Depth (ft.) 59.00 (from well log) LWC: 11.20

Depth to Static Water Surface (ft.) 47.80

Calculated Well Volume (1 casing volume) (gal.) 7.0

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 35

Measured Flow Rate (gal/min) 0.5

Calculated Pumping Time (length of time in minutes) 70

Actual Pumping Time (length of time in minutes) 105

Check-back Time 0920

Recovery Time (if needed) NA

pH Calibration During Purging (4, 7, 10) (circle two) Actual Reading 4.01/7.01 pH

pH Calibration During Sampling (4, 7, 10) (circle two) Actual Reading 4.01/7.01 pH 7/24/17 Date

Purge Start Time	0905	Purge Stop Time	1010
Purge Date	7/24/17	Total Gallons Purged	21
Purge Method	WW		

	Well Volume Units	Initial	1	2	3	4	5
Volume Purged	gal.	—	7	14	21		
Time	-	0905	0925	0950	1010		
Temperature	°C	20.7	20.5	20.9	20.1		
pH	Std. units	6.05	6.28	6.60	6.72		
Conductivity	µmhos/cm	140	140	130	140		
Turbidity	NTUs	—	—	—	2.81		

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☐ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☑
VOC	Yes ☑ No ☐	Cyanide (NaOH)	Yes ☐ No ☑
Metals (HNO_3)	Yes ☑ No ☐	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☑
Rinsate Blank	Yes ☐ No ☑	Field Blank	Yes ☑ No ☐
Metals verified (<2 pH)	Yes ☑ No ☐ (10% of samples verified per SAP)		

1HL2

FD @ 105

4"

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID MW-023ATR Sample Time 1330

Field Personnel CE, BR, FO, MW Sample Date 7/24/17

Weather Conditions OVERCAST Air Temperature (°F) 90

Total Depth (ft.) 53.00 (from well log) LWC: 6.19

Depth to Static Water Surface (ft.) 46.81

Calculated Well Volume (1 casing volume) (gal.) 5

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 25

Measured Flow Rate (gal/min) 0.5

Calculated Pumping Time (length of time in minutes) 50

Actual Pumping Time (length of time in minutes) 155

Check-back Time 1115

Recovery Time (if needed) NA

pH Calibration During Purging (4, 7, 10) (circle two) Actual Reading 4.01 / 7.0 pH

pH Calibration During Sampling (4, 7, 10) (circle two) Actual Reading 4.01 / 7.0 pH 7/24/17 Date

Purge Start Time	1105	Purge Stop Time	1330
Purge Date	7/24/17	Total Gallons Purged	15
Purge Method	MW		

	Well Volume Units	Initial	1	2	3	4	5
Volume Purged	gal.	—	5	10	15		
Time	-	1105	1155	1240	1329		
Temperature	°C	21.7	21.6	24.4	21.8		
pH	Std. units	6.32	6.16	6.29	6.20		
Conductivity	µmhos/cm	140	150	150	160		
Turbidity	NTUs	—	—	—	2.00		

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☑	No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐	No ☑
VOC	Yes ☑	No ☐	Cyanide (NaOH)	Yes ☐	No ☑
Metals (HNO_3)	Yes ☑	No ☐	Dioxins / Furans (sodium thiosulfate)	Yes ☐	No ☑
Rinsate Blank	Yes ☐	No ☑	Field Blank	Yes ☐	No ☑
Metals verified (<2 pH)	Yes ☑	No ☐	(10% of samples verified per SAP)		

pH<2

4"

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID UBC-029AR Sample Time 1210

Field Personnel CE, SR, FO, WW Sample Date 7/24/17

Weather Conditions OVERCAST Air Temperature (°F) 95

Total Depth (ft.) 143.00 (from well log) LWL: 63.81

Depth to Static Water Surface (ft.) 79.19

Calculated Well Volume (1 casing volume) (gal.) 42

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 210

Measured Flow Rate (gal/min) 1.0

Calculated Pumping Time (length of time in minutes) 210

Actual Pumping Time (length of time in minutes) 190

Check-back Time 0945

Recovery Time (if needed) NA

pH Calibration During Purging (4 7 10) (circle two) Actual Reading 4.01/7.01 pH

pH Calibration During Sampling (4 7 10) (circle two) Actual Reading 4.01/7.01 pH 7/24/17 Date

Purge Start Time	0900	Purge Stop Time	1210
Purge Date	7/24/17	Total Gallons Purged	126
Purge Method	WW		

	Well Volume Units	Initial	1	2	3	4	5
Volume Purged	gal.	—	42	84	126		
Time	-	0900	1030	1120	1210		
Temperature	°C	21.7	21.1	21.4	22.0		
pH	Std. units	6.72	6.83	6.68	6.64		
Conductivity	µmhos/cm	100	100	100	100		
Turbidity	NTUs	—	—	—	1.66		

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☐ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☐
VOC	Yes ☐ No ☐	Cyanide (NaOH)	Yes ☐ No ☐
Metals (HNO_3)	Yes ☐ No ☐	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☐
Rinsate Blank	Yes ☐ No ☑	Field Blank	Yes ☐ No ☐
Metals verified (<2 pH)	Yes ☑ No ☐	(10% of samples verified per SAP)	

pH L2

4"

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID MW-027BTR Sample Time 1305

Field Personnel CE, BR, FO Sample Date 7/24/17

Weather Conditions SUNNY Air Temperature (°F) 95

Total Depth (ft.) 52.00 (from well log)

Depth to Static Water Surface (ft.) 41.14

Calculated Well Volume (1 casing volume) (gal.) 8

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 40

Measured Flow Rate (gal/min) 0.5

Calculated Pumping Time (length of time in minutes) 80

Actual Pumping Time (length of time in minutes) 20

Check-back Time 1120

Recovery Time (if needed) 72

pH Calibration During Purging (4.0, 7.0, 10) (circle two) Actual Reading 4.01/7.01 pH

pH Calibration During Sampling (4.0, 7.0, 10) (circle two) Actual Reading 4.01/7.01 pH 7/24/17 Date

Purge Start Time	1110	Purge Stop Time	1130	
Purge Date	7/21/17	Total Gallons Purged	8 (DRY)	
Purge Method	WW			

	Well Volume Units	Initial	1	2	3	4	5
Volume Purged	gal.	—			(SAMPLE		
Time	-	1110			1305		
Temperature	°C	21.3			28.8		
pH	Std. units	6.08			6.18		
Conductivity	µmhos/cm	150			100		
Turbidity	NTUs	—			7.44		

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☑ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☐
VOC	Yes ☑ No ☐	Cyanide (NaOH)	Yes ☐ No ☐
Metals (HNO_3)	Yes ☐ No ☐	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☐
Rinsate Blank	Yes ☐ No ☑	Field Blank	Yes ☐ No ☐
Metals verified (<2 pH)	Yes ☑ No ☐ (10% of samples verified per SAP)		

pH < 2

4"

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID MW-028A Sample Time 1440

Field Personnel CE, BL, FO Sample Date 7/24/17

Weather Conditions Sunny Air Temperature (°F) 95

Total Depth (ft.) 49.00 (from well log) LWC: 31.54-51

Depth to Static Water Surface (ft.) 40.49

Calculated Well Volume (1 casing volume) (gal.) 6

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 30

Measured Flow Rate (gal/min) 0.5

Calculated Pumping Time (length of time in minutes) 60

Actual Pumping Time (length of time in minutes) _____

Check-back Time 1145

Recovery Time (if needed) _____

pH Calibration During Purging (4, 7, 10) (circle two) Actual Reading 4.01/7.01 pH

pH Calibration During Sampling (4, 7, 10) (circle two) Actual Reading 4.01/7.01 pH 7/24/17 Date

Purge Start Time	1135	Purge Stop Time	1205
Purge Date	7/21/17	Total Gallons Purged	6 (DEV)
Purge Method	WW		

	Well Volume Units	Initial	1	2	3	4	5
Volume Purged	gal.	—			Composite		
Time	-	1135			1440		
Temperature	°C	6.05			23.2		
pH	Std. units	22.0			6.09		
Conductivity	µmhos/cm	140			140		
Turbidity	NTUs	—			2.32		

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☒ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☒
VOC	Yes ☒ No ☐	Cyanide (NaOH)	Yes ☐ No ☒
Metals (HNO_3)	Yes ☒ No ☐	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☒
Rinsate Blank	Yes ☐ No ☒	Field Blank	Yes ☐ No ☒
Metals verified (<2 pH)	Yes ☐ No ☒	(10% of samples verified per SAP)	

4"

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID MW-050T Sample Time ~~1200~~ 1420

Field Personnel CE, BR, FO Sample Date ~~7/21/17~~ 7/24/17

Weather Conditions SUNNY Air Temperature (°F) 95

Total Depth (ft.) 57.00 (from well log) LWC: 22.26

Depth to Static Water Surface (ft.) 34.74

Calculated Well Volume (1 casing volume) (gal.) 15

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 75

Measured Flow Rate (gal/min) 0.5

Calculated Pumping Time (length of time in minutes) 150

Actual Pumping Time (length of time in minutes) 35

Check-back Time 1145

Recovery Time (if needed) 72

pH Calibration During Purging (4.0, 7.0, 10) (circle two) Actual Reading ~~4.01/7.01~~ pH

pH Calibration During Sampling (4.0, 7.0, 10) (circle two) Actual Reading ~~4.01/7.01~~ pH ~~7/21/17~~ Date

4.0/7.01 7/24/17

Purge Start Time	1115		Purge Stop Time	1150		
Purge Date	7/21/17		Total Gallons Purged	15 (DRY)		
Purge Method	WW					

	Well Volume Units	Initial	1	2	3	4	5
Volume Purged	gal.	—			~~0.5 gal~~	@ Sample	
Time	-	1115			1200	1420	
Temperature	°C	23.1			23.2	24.9	
pH	Std. units	6.11			~~8.83~~ 8.83	6.21	
Conductivity	µmhos/cm	120			110	110	
Turbidity	NTUs	—			~~5.45~~	5.92	

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☒ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☒
VOC	Yes ☒ No ☐	Cyanide (NaOH)	Yes ☐ No ☒
Metals (HNO_3)	Yes ☒ No ☐	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☒
Rinsate Blank	Yes ☐ No ☒	Field Blank	Yes ☐ No ☒
Metals verified (<2 pH)	Yes ☐ No ☒	(10% of samples verified per SAP)	

4"

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID MW-05IT Sample Time 1400

Field Personnel CE/BL, FO Sample Date 7/21/17

Weather Conditions Sunny Air Temperature (°F) 95

Total Depth (ft.) 56.00 (from well log) LWC: 23.13

Depth to Static Water Surface (ft.) 32.87

Calculated Well Volume (1 casing volume) (gal.) 16

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 80

Measured Flow Rate (gal/min) 0.5

Calculated Pumping Time (length of time in minutes) 160

Actual Pumping Time (length of time in minutes) 35

Check-back Time 1050

Recovery Time (if needed) ~~24~~ 72

pH Calibration During Purging (4, 7, 10) (circle two) Actual Reading 4.01 / 7.01 pH

pH Calibration During Sampling (4, 7, 10) (circle two) Actual Reading 4.01 / 7.01 pH 7/21/17 Date

Purge Start Time	1020	Purge Stop Time	1055
Purge Date	7/21/17	Total Gallons Purged	16 (DRY)
Purge Method	WW		

	Well Volume Units	Initial	1	2	3	4	5
Volume Purged	gal.	—			~~1st sample~~	2nd sample	
Time	-	1020			1035	1400	
Temperature	°C	24.4			24.6	24.3	
pH	Std. units	6.38			6.01	6.30	
Conductivity	µmhos/cm	110			120	120	
Turbidity	NTUs	—			~~3.48~~	5.68	

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☑ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☑
VOC	Yes ☑ No ☐	Cyanide (NaOH)	Yes ☐ No ☑
Metals (HNO_3)	Yes ☑ No ☐	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☑
Rinsate Blank	Yes ☐ No ☑	Field Blank	Yes ☐ No ☑
Metals verified (<2 pH)	Yes ☑ No ☐ (10% of samples verified per SAP)		

pH<2

4"

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID MW-02-TR Sample Time 1400

Field Personnel CE, BR, FO, WW Sample Date 7/24/17

Weather Conditions OVERCAST Air Temperature (°F) 85

Total Depth (ft.) 54.00 (from well log) LWC: 4.71

Depth to Static Water Surface (ft.) 49.29

Calculated Well Volume (1 casing volume) (gal.) 4.0

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 20

Measured Flow Rate (gal/min) NA

Calculated Pumping Time (length of time in minutes) NA

Actual Pumping Time (length of time in minutes) NA

Check-back Time NA

Recovery Time (if needed) 4

pH Calibration During Purging (4, 7, 10) (circle two) Actual Reading 4.01/7.01 pH

pH Calibration During Sampling (4, 7, 10) (circle two) Actual Reading 4.01/7.01 pH 7/24/17 Date

Purge Start Time	0941	Purge Stop Time	0950
Purge Date	7/24/17	Total Gallons Purged	5 (DUP)
Purge Method	BAILER		

	Well Volume Units	Initial	1	2	3	4	5
Volume Purged	gal.	—	4			(2 Samples)	
Time	-	0941	0950			1400	
Temperature	°C	21.3	20.5			23.9	
pH	Std. units	6.68	5.85			5.93	
Conductivity	µmhos/cm	120	130			150	
Turbidity	NTUs	—	—			15.6	

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☐ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☐
VOC	Yes ☐ No ☐	Cyanide (NaOH)	Yes ☐ No ☐
Metals (HNO_3)	Yes ☐ No ☐	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☐
Rinsate Blank	Yes ☐ No ☐	Field Blank	Yes ☐ No ☐
Metals verified (<2 pH)	Yes ☐ No ☐	(10% of samples verified per SAP)	

4"

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID MW-026 BTR Sample Time 1350

Field Personnel CE, BR, FO, WW Sample Date 7/24/17

Weather Conditions OVERCAST Air Temperature (°F) 89

Total Depth (ft.) 51.00 (from well log) LWL: 6.39

Depth to Static Water Surface (ft.) 44.61

Calculated Well Volume (1 casing volume) (gal.) 5

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 35

Measured Flow Rate (gal/min) NA

Calculated Pumping Time (length of time in minutes) NA

Actual Pumping Time (length of time in minutes) NA

Check-back Time NA

Recovery Time (if needed) 24

pH Calibration During Purging (4, 7, 10) (circle two) Actual Reading 4.01/7.01 pH

pH Calibration During Sampling (4, 7, 10) (circle two) Actual Reading 4.01 7.01 pH 7/24/17 Date

Purge Start Time	0950	Purge Stop Time	1031	
Purge Date	7/24/17	Total Gallons Purged	6 (Dry)	
Purge Method	BAILER			

	Well Volume Units	Initial	1	2	3	4	5
Volume Purged	gal.	—	5			(6) Sample	
Time	-	0950	1025			1350	
Temperature	°C	20.3	21.5			21.9	
pH	Std. units	5.56	5.70			6.73	
Conductivity	µmhos/cm	170	190			190	
Turbidity	NTUs	—	—			24.6	

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☑ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☑
VOC	Yes ☑ No ☐	Cyanide (NaOH)	Yes ☐ No ☑
Metals (HNO_3)	Yes ☑ No ☐	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☑
Rinsate Blank	Yes ☐ No ☑	Field Blank	Yes ☐ No ☑
Metals verified (<2 pH)	Yes ☐ No ☑	(10% of samples verified per SAP)	

SHEALY ENVIRONMENTAL SERVICES, INC.

Report of Analysis

Smith Gardner, Inc.
14 North Boylan Avenue
Raleigh, NC 27603
Attention: Kevin Anderson

Project Name: Pinewood LF GW (Detection Monitoring)

Lot Number:**SG25080**

Date Completed:08/11/2017

08/11/2017 11:09 AM
Approved and released by:
Project Manager: Kelly M. Nance

The electronic signature above is the equivalent of a handwritten signature.

Shealy Environmental Services, Inc.
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Case Narrative
Smith Gardner, Inc.
Lot Number: SG25080

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

Volatiles
Sample -004 had the surrogate toluene-d8 recovered above the acceptance limits. This reflects a high bias for compounds associated with this surrogate. There were no detections for these compounds in the sample; therefore, there is no impact on data quality and no corrective action is required.

Sample Summary
Smith Gardner, Inc.
Lot Number: SG25080

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	MW054T	Aqueous	07/25/2017 1545	07/25/2017
002	UBC051	Aqueous	07/25/2017 1540	07/25/2017
003	MW052T	Aqueous	07/25/2017 1550	07/25/2017
004	MW029	Aqueous	07/25/2017 1500	07/25/2017
005	MW030	Aqueous	07/25/2017 1340	07/25/2017
006	UBC030	Aqueous	07/25/2017 1520	07/25/2017
007	UBC052	Aqueous	07/25/2017 1430	07/25/2017
008	UBC018	Aqueous	07/25/2017 1050	07/25/2017
009	UBC017	Aqueous	07/25/2017 1335	07/25/2017
010	UBC031	Aqueous	07/25/2017 1445	07/25/2017
011	Field Blank	Aqueous	07/25/2017 1100	07/25/2017
012	Trip Blank	Aqueous	07/25/2017	07/25/2017

(12 samples)

Detection Summary

Smith Gardner, Inc.

Lot Number: SG25080

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	MW054T	Aqueous	Chloride	300.0	3.7		mg/L	5
001	MW054T	Aqueous	TDS	SM 2540C-	220		mg/L	5
002	UBC051	Aqueous	Chloride	300.0	2.2		mg/L	10
002	UBC051	Aqueous	TDS	SM 2540C-	66		mg/L	10
002	UBC051	Aqueous	Barium	6010D	0.071		mg/L	13
003	MW052T	Aqueous	Chloride	300.0	3.7		mg/L	15
003	MW052T	Aqueous	TDS	SM 2540C-	200		mg/L	15
003	MW052T	Aqueous	Barium	6010D	0.028		mg/L	18
004	MW029	Aqueous	Chloride	300.0	6.4		mg/L	20
004	MW029	Aqueous	TDS	SM 2540C-	380		mg/L	20
004	MW029	Aqueous	Zinc	6010D	0.020		mg/L	23
005	MW030	Aqueous	Chloride	300.0	19		mg/L	25
005	MW030	Aqueous	TDS	SM 2540C-	270		mg/L	25
006	UBC030	Aqueous	Chloride	300.0	2.8		mg/L	30
006	UBC030	Aqueous	TDS	SM 2540C-	120		mg/L	30
006	UBC030	Aqueous	Barium	6010D	0.056		mg/L	33
007	UBC052	Aqueous	Chloride	300.0	2.9		mg/L	35
007	UBC052	Aqueous	TDS	SM 2540C-	100		mg/L	35
007	UBC052	Aqueous	Barium	6010D	0.062		mg/L	38
008	UBC018	Aqueous	Chloride	300.0	2.6		mg/L	40
008	UBC018	Aqueous	TDS	SM 2540C-	92		mg/L	40
008	UBC018	Aqueous	Barium	6010D	0.073		mg/L	43
009	UBC017	Aqueous	Chloride	300.0	2.6		mg/L	45
009	UBC017	Aqueous	TDS	SM 2540C-	81		mg/L	45
009	UBC017	Aqueous	Barium	6010D	0.074		mg/L	48
010	UBC031	Aqueous	Chloride	300.0	2.8		mg/L	50
010	UBC031	Aqueous	TDS	SM 2540C-	110		mg/L	50
010	UBC031	Aqueous	Barium	6010D	0.069		mg/L	53

(28 detections)

Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SG25080-001
Description: MW054T
Matrix: Aqueous
Date Sampled: 07/25/2017 1545
Date Received: 07/25/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	07/25/2017 1545	CAE		
1		(Specific Con) 120.1	1	07/25/2017 1545	CAE		
1		(Temperature) SM 2550B-2010	1	07/25/2017 1545	CAE		
1		(Turbidity -) 180.1	1	07/25/2017 1545	CAE		
1		(Chloride) 300.0	1	08/01/2017 0124	TAF		48115
1		(TDS) SM 2540C-2011	1	07/28/2017 1759	AJG		47796

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	5.27			su	1
Specific Conductance - Field		120.1	160		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	21.9			° C	1
Turbidity - Field		180.1	2.4		1.0	NTU	1
Chloride		300.0	3.7		2.0	mg/L	1
TDS		SM 2540C-20	220		10	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SG25080-001
Description: MW054T
Matrix: Aqueous
Date Sampled: 07/25/2017 1545
Date Received: 07/25/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	5030B	8260B (SIM iso.)	1	07/31/2017 1450	JM1		47936

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	2

Surrogate	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		106	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG25080-001
Description: MW054T
Matrix: Aqueous
Date Sampled: 07/25/2017 1545
Date Received: 07/25/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/28/2017 1134	TML		47760

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		107	70-130
Bromofluorobenzene		110	70-130
Toluene-d8		114	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
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N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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ICP-AES Metals

Client: Smith Gardner, Inc.
Laboratory ID: SG25080-001
Description: MW054T
Matrix: Aqueous
Date Sampled: 07/25/2017 1545
Date Received: 07/25/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010D	1	08/08/2017 1936	CJZ	07/28/2017 0914	47739
2	3005A	6010D	1	08/09/2017 1553	CJZ	07/28/2017 0914	47739

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	7440-39-3	6010D	ND		0.025	mg/L	1
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	ND		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	2
Nickel	7440-02-0	6010D	ND		0.040	mg/L	1
Zinc	7440-66-6	6010D	ND		0.020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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CVAA

Client: Smith Gardner, Inc.
Laboratory ID: SG25080-001
Description: MW054T
Matrix: Aqueous
Date Sampled: 07/25/2017 1545
Date Received: 07/25/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	07/27/2017 1454	COH	07/27/2017 1105	47632

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury	7439-97-6	7470A	ND		0.00020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SG25080-002
Description: UBC051
Matrix: Aqueous
Date Sampled: 07/25/2017 1540
Date Received: 07/25/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	07/25/2017 1540	CAE		
1		(Specific Con) 120.1	1	07/25/2017 1540	CAE		
1		(Temperature) SM 2550B-2010	1	07/25/2017 1540	CAE		
1		(Turbidity -) 180.1	1	07/25/2017 1540	CAE		
1		(Chloride) 300.0	1	08/01/2017 0149	TAF		48115
1		(TDS) SM 2540C-2011	1	07/28/2017 1759	AJG		47796

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	6.55			su	1
Specific Conductance - Field		120.1	120		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	27.5			° C	1
Turbidity - Field		180.1	5.8		1.0	NTU	1
Chloride		300.0	2.2		2.0	mg/L	1
TDS		SM 2540C-20	66		10	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SG25080-002
Description: UBC051
Matrix: Aqueous
Date Sampled: 07/25/2017 1540
Date Received: 07/25/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	07/29/2017 1529	TML		47871

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		105	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG25080-002
Description: UBC051
Matrix: Aqueous
Date Sampled: 07/25/2017 1540
Date Received: 07/25/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/28/2017 1158	TML		47760

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		107	70-130
Bromofluorobenzene		111	70-130
Toluene-d8		113	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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ICP-AES Metals

Client: Smith Gardner, Inc.
Laboratory ID: SG25080-002
Description: UBC051
Matrix: Aqueous
Date Sampled: 07/25/2017 1540
Date Received: 07/25/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010D	1	08/08/2017 2007	CJZ	07/28/2017 0914	47739
2	3005A	6010D	1	08/09/2017 1625	CJZ	07/28/2017 0914	47739

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	7440-39-3	6010D	0.071		0.025	mg/L	1
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	ND		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	2
Nickel	7440-02-0	6010D	ND		0.040	mg/L	1
Zinc	7440-66-6	6010D	ND		0.020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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CVAA

Client: Smith Gardner, Inc.
Laboratory ID: SG25080-002
Description: UBC051
Matrix: Aqueous
Date Sampled: 07/25/2017 1540
Date Received: 07/25/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	07/27/2017 1456	COH	07/27/2017 1105	47632

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury	7439-97-6	7470A	ND		0.00020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SG25080-003
Description: MW052T
Matrix: Aqueous
Date Sampled: 07/25/2017 1550
Date Received: 07/25/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	07/25/2017 1550	CAE		
1		(Specific Con) 120.1	1	07/25/2017 1550	CAE		
1		(Temperature) SM 2550B-2010	1	07/25/2017 1550	CAE		
1		(Turbidity -) 180.1	1	07/25/2017 1550	CAE		
1		(Chloride) 300.0	1	08/01/2017 0304	TAF		48115
1		(TDS) SM 2540C-2011	1	07/28/2017 1759	AJG		47796

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	6.13			su	1
Specific Conductance - Field		120.1	160		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	22.8			° C	1
Turbidity - Field		180.1	9.9		1.0	NTU	1
Chloride		300.0	3.7		2.0	mg/L	1
TDS		SM 2540C-20	200		10	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SG25080-003
Description: MW052T
Matrix: Aqueous
Date Sampled: 07/25/2017 1550
Date Received: 07/25/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	07/29/2017 1553	TML		47871

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		106	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG25080-003
Description: MW052T
Matrix: Aqueous
Date Sampled: 07/25/2017 1550
Date Received: 07/25/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/28/2017 1221	TML		47760

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		107	70-130
Bromofluorobenzene		109	70-130
Toluene-d8		112	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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ICP-AES Metals

Client: Smith Gardner, Inc.
Laboratory ID: SG25080-003
Description: MW052T
Matrix: Aqueous
Date Sampled: 07/25/2017 1550
Date Received: 07/25/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010D	1	08/08/2017 2012	CJZ	07/28/2017 0914	47739
2	3005A	6010D	1	08/09/2017 1629	CJZ	07/28/2017 0914	47739

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	7440-39-3	6010D	0.028		0.025	mg/L	1
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	ND		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	2
Nickel	7440-02-0	6010D	ND		0.040	mg/L	1
Zinc	7440-66-6	6010D	ND		0.020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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CVAA

Client: Smith Gardner, Inc.
Laboratory ID: SG25080-003
Description: MW052T
Matrix: Aqueous
Date Sampled: 07/25/2017 1550
Date Received: 07/25/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	07/27/2017 1459	COH	07/27/2017 1105	47632

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury	7439-97-6	7470A	ND		0.00020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SG25080-004
Description: MW029
Matrix: Aqueous
Date Sampled: 07/25/2017 1500
Date Received: 07/25/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	07/25/2017 1500	CAE		
1		(Specific Con) 120.1	1	07/25/2017 1500	CAE		
1		(Temperature) SM 2550B-2010	1	07/25/2017 1500	CAE		
1		(Turbidity -) 180.1	1	07/25/2017 1500	CAE		
1		(Chloride) 300.0	1	08/01/2017 0329	TAF		48115
1		(TDS) SM 2540C-2011	1	07/28/2017 1759	AJG		47796

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	5.6			su	1
Specific Conductance - Field		120.1	200		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	25.2			° C	1
Turbidity - Field		180.1	6.3		1.0	NTU	1
Chloride		300.0	6.4		2.0	mg/L	1
TDS		SM 2540C-20	380		10	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SG25080-004
Description: MW029
Matrix: Aqueous
Date Sampled: 07/25/2017 1500
Date Received: 07/25/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	07/29/2017 1618	TML		47871

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		107	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG25080-004
Description: MW029
Matrix: Aqueous
Date Sampled: 07/25/2017 1500
Date Received: 07/25/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/28/2017 1244	TML		47760

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		110	70-130
Bromofluorobenzene		123	70-130
Toluene-d8	N	133	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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ICP-AES Metals

Client: Smith Gardner, Inc.
Laboratory ID: SG25080-004
Description: MW029
Matrix: Aqueous
Date Sampled: 07/25/2017 1500
Date Received: 07/25/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010D	1	08/08/2017 2017	CJZ	07/28/2017 0914	47739
2	3005A	6010D	1	08/09/2017 1634	CJZ	07/28/2017 0914	47739

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	7440-39-3	6010D	ND		0.025	mg/L	1
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	ND		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	2
Nickel	7440-02-0	6010D	ND		0.040	mg/L	1
Zinc	7440-66-6	6010D	0.020		0.020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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CVAA

Client: Smith Gardner, Inc.
Laboratory ID: SG25080-004
Description: MW029
Matrix: Aqueous
Date Sampled: 07/25/2017 1500
Date Received: 07/25/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	07/27/2017 1502	COH	07/27/2017 1105	47632

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury	7439-97-6	7470A	ND		0.00020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SG25080-005
Description: MW030
Matrix: Aqueous
Date Sampled: 07/25/2017 1340
Date Received: 07/25/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	07/25/2017 1340	CAE		
1		(Specific Con) 120.1	1	07/25/2017 1340	CAE		
1		(Temperature) SM 2550B-2010	1	07/25/2017 1340	CAE		
1		(Turbidity -) 180.1	1	07/25/2017 1340	CAE		
1		(Chloride) 300.0	1	08/01/2017 0444	TAF		48115
1		(TDS) SM 2540C-2011	1	07/28/2017 1759	AJG		47796

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	6.19			su	1
Specific Conductance - Field		120.1	190		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	25.5			° C	1
Turbidity - Field		180.1	14		1.0	NTU	1
Chloride		300.0	19		2.0	mg/L	1
TDS		SM 2540C-20	270		10	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SG25080-005
Description: MW030
Matrix: Aqueous
Date Sampled: 07/25/2017 1340
Date Received: 07/25/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	07/29/2017 1642	TML		47871

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		106	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG25080-005
Description: MW030
Matrix: Aqueous
Date Sampled: 07/25/2017 1340
Date Received: 07/25/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/28/2017 1308	TML		47760

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		109	70-130
Bromofluorobenzene		96	70-130
Toluene-d8		113	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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ICP-AES Metals

Client: Smith Gardner, Inc.
Laboratory ID: SG25080-005
Description: MW030
Matrix: Aqueous
Date Sampled: 07/25/2017 1340
Date Received: 07/25/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010D	1	08/08/2017 2021	CJZ	07/28/2017 0914	47739
2	3005A	6010D	1	08/09/2017 1638	CJZ	07/28/2017 0914	47739

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	7440-39-3	6010D	ND		0.025	mg/L	1
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	ND		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	2
Nickel	7440-02-0	6010D	ND		0.040	mg/L	1
Zinc	7440-66-6	6010D	ND		0.020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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CVAA

Client: Smith Gardner, Inc. Laboratory ID: SG25080-005

Description: MW030 Matrix: Aqueous

Date Sampled: 07/25/2017 1340

Date Received: 07/25/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	07/27/2017 1504	COH	07/27/2017 1105	47632

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury	7439-97-6	7470A	ND		0.00020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SG25080-006
Description: UBC030
Matrix: Aqueous
Date Sampled: 07/25/2017 1520
Date Received: 07/25/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	07/25/2017 1520	CAE		
1		(Specific Con) 120.1	1	07/25/2017 1520	CAE		
1		(Temperature) SM 2550B-2010	1	07/25/2017 1520	CAE		
1		(Turbidity -) 180.1	1	07/25/2017 1520	CAE		
1		(Chloride) 300.0	1	08/01/2017 0509	TAF		48115
1		(TDS) SM 2540C-2011	1	07/28/2017 1759	AJG		47796

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	5.97			su	1
Specific Conductance - Field		120.1	120		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	26.7			° C	1
Turbidity - Field		180.1	2.8		1.0	NTU	1
Chloride		300.0	2.8		2.0	mg/L	1
TDS		SM 2540C-20	120		10	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SG25080-006
Description: UBC030
Matrix: Aqueous
Date Sampled: 07/25/2017 1520
Date Received: 07/25/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	07/29/2017 1707	TML		47871

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		107	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

Shealy Environmental Services, Inc.
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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG25080-006
Description: UBC030
Matrix: Aqueous
Date Sampled: 07/25/2017 1520
Date Received: 07/25/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/28/2017 1331	TML		47760

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		107	70-130
Bromofluorobenzene		109	70-130
Toluene-d8		113	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
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W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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ICP-AES Metals

Client: Smith Gardner, Inc.
Laboratory ID: SG25080-006
Description: UBC030
Matrix: Aqueous
Date Sampled: 07/25/2017 1520
Date Received: 07/25/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010D	1	08/08/2017 2026	CJZ	07/28/2017 0914	47739
2	3005A	6010D	1	08/09/2017 1643	CJZ	07/28/2017 0914	47739

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	7440-39-3	6010D	0.056		0.025	mg/L	1
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	ND		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	2
Nickel	7440-02-0	6010D	ND		0.040	mg/L	1
Zinc	7440-66-6	6010D	ND		0.020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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CVAA

Client: Smith Gardner, Inc.
Laboratory ID: SG25080-006
Description: UBC030
Matrix: Aqueous
Date Sampled: 07/25/2017 1520
Date Received: 07/25/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	07/27/2017 1507	COH	07/27/2017 1105	47632

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury	7439-97-6	7470A	ND		0.00020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

Shealy Environmental Services, Inc.
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Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SG25080-007
Description: UBC052
Matrix: Aqueous
Date Sampled: 07/25/2017 1430
Date Received: 07/25/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	07/25/2017 1430	CAE		
1		(Specific Con) 120.1	1	07/25/2017 1430	CAE		
1		(Temperature) SM 2550B-2010	1	07/25/2017 1430	CAE		
1		(Turbidity -) 180.1	1	07/25/2017 1430	CAE		
1		(Chloride) 300.0	1	08/01/2017 0534	TAF		48115
1		(TDS) SM 2540C-2011	1	07/28/2017 1759	AJG		47796

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	6.12			su	1
Specific Conductance - Field		120.1	100		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	24.9			° C	1
Turbidity - Field		180.1	2.7		1.0	NTU	1
Chloride		300.0	2.9		2.0	mg/L	1
TDS		SM 2540C-20	100		10	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SG25080-007
Description: UBC052
Matrix: Aqueous
Date Sampled: 07/25/2017 1430
Date Received: 07/25/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	07/29/2017 1731	TML		47871

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		108	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG25080-007
Description: UBC052
Matrix: Aqueous
Date Sampled: 07/25/2017 1430
Date Received: 07/25/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/28/2017 1354	TML		47760

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		108	70-130
Bromofluorobenzene		112	70-130
Toluene-d8		113	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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ICP-AES Metals

Client: Smith Gardner, Inc.
Laboratory ID: SG25080-007
Description: UBC052
Matrix: Aqueous
Date Sampled: 07/25/2017 1430
Date Received: 07/25/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010D	1	08/08/2017 2030	CJZ	07/28/2017 0914	47739
2	3005A	6010D	1	08/09/2017 1648	CJZ	07/28/2017 0914	47739

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	7440-39-3	6010D	0.062		0.025	mg/L	1
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	ND		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	2
Nickel	7440-02-0	6010D	ND		0.040	mg/L	1
Zinc	7440-66-6	6010D	ND		0.020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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CVAA

Client: Smith Gardner, Inc.
Laboratory ID: SG25080-007
Description: UBC052
Matrix: Aqueous
Date Sampled: 07/25/2017 1430
Date Received: 07/25/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	07/27/2017 1509	COH	07/27/2017 1105	47632

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury	7439-97-6	7470A	ND		0.00020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SG25080-008
Description: UBC018
Matrix: Aqueous
Date Sampled: 07/25/2017 1050
Date Received: 07/25/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	07/25/2017 1050	CAE		
1		(Specific Con) 120.1	1	07/25/2017 1050	CAE		
1		(Temperature) SM 2550B-2010	1	07/25/2017 1050	CAE		
1		(Turbidity -) 180.1	1	07/25/2017 1050	CAE		
1		(Chloride) 300.0	1	08/01/2017 0559	TAF		48115
1		(TDS) SM 2540C-2011	1	07/28/2017 1759	AJG		47796

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	6.24			su	1
Specific Conductance - Field		120.1	100		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	21.4			° C	1
Turbidity - Field		180.1	2.6		1.0	NTU	1
Chloride		300.0	2.6		2.0	mg/L	1
TDS		SM 2540C-20	92		10	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SG25080-008
Description: UBC018
Matrix: Aqueous
Date Sampled: 07/25/2017 1050
Date Received: 07/25/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	07/29/2017 1755	TML		47871

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		111	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG25080-008
Description: UBC018
Matrix: Aqueous
Date Sampled: 07/25/2017 1050
Date Received: 07/25/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/28/2017 1418	TML		47760

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		106	70-130
Bromofluorobenzene		110	70-130
Toluene-d8		114	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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ICP-AES Metals

Client: Smith Gardner, Inc.
Laboratory ID: SG25080-008
Description: UBC018
Matrix: Aqueous
Date Sampled: 07/25/2017 1050
Date Received: 07/25/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010D	1	08/08/2017 2035	CJZ	07/28/2017 0914	47739
2	3005A	6010D	1	08/09/2017 1653	CJZ	07/28/2017 0914	47739

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	7440-39-3	6010D	0.073		0.025	mg/L	1
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	ND		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	2
Nickel	7440-02-0	6010D	ND		0.040	mg/L	1
Zinc	7440-66-6	6010D	ND		0.020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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CVAA

Client: Smith Gardner, Inc.
Laboratory ID: SG25080-008
Description: UBC018
Matrix: Aqueous
Date Sampled: 07/25/2017 1050
Date Received: 07/25/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	07/27/2017 1517	COH	07/27/2017 1105	47632

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury	7439-97-6	7470A	ND		0.00020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SG25080-009
Description: UBC017
Matrix: Aqueous
Date Sampled: 07/25/2017 1335
Date Received: 07/25/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	07/25/2017 1335	CAE		
1		(Specific Con) 120.1	1	07/25/2017 1335	CAE		
1		(Temperature) SM 2550B-2010	1	07/25/2017 1335	CAE		
1		(Turbidity -) 180.1	1	07/25/2017 1335	CAE		
1		(Chloride) 300.0	1	08/01/2017 0624	TAF		48115
1		(TDS) SM 2540C-2011	1	07/28/2017 1759	AJG		47796

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	6.64			su	1
Specific Conductance - Field		120.1	100		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	22.1			° C	1
Turbidity - Field		180.1	2.6		1.0	NTU	1
Chloride		300.0	2.6		2.0	mg/L	1
TDS		SM 2540C-20	81		10	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SG25080-009
Description: UBC017
Matrix: Aqueous
Date Sampled: 07/25/2017 1335
Date Received: 07/25/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	07/29/2017 1819	TML		47871

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		110	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG25080-009
Description: UBC017
Matrix: Aqueous
Date Sampled: 07/25/2017 1335
Date Received: 07/25/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/28/2017 1441	TML		47760

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		112	70-130
Bromofluorobenzene		115	70-130
Toluene-d8		119	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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ICP-AES Metals

Client: Smith Gardner, Inc.
Laboratory ID: SG25080-009
Description: UBC017
Matrix: Aqueous
Date Sampled: 07/25/2017 1335
Date Received: 07/25/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010D	1	08/08/2017 2049	CJZ	07/28/2017 0914	47739
2	3005A	6010D	1	08/09/2017 1657	CJZ	07/28/2017 0914	47739

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	7440-39-3	6010D	0.074		0.025	mg/L	1
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	ND		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	2
Nickel	7440-02-0	6010D	ND		0.040	mg/L	1
Zinc	7440-66-6	6010D	ND		0.020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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CVAA

Client: Smith Gardner, Inc.
Laboratory ID: SG25080-009
Description: UBC017
Matrix: Aqueous
Date Sampled: 07/25/2017 1335
Date Received: 07/25/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	07/27/2017 1519	COH	07/27/2017 1105	47632

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury	7439-97-6	7470A	ND		0.00020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SG25080-010
Description: UBC031
Matrix: Aqueous
Date Sampled: 07/25/2017 1445
Date Received: 07/25/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	07/25/2017 1445	CAE		
1		(Specific Con) 120.1	1	07/25/2017 1445	CAE		
1		(Temperature) SM 2550B-2010	1	07/25/2017 1445	CAE		
1		(Turbidity -) 180.1	1	07/25/2017 1445	CAE		
1		(Chloride) 300.0	1	08/03/2017 2100	TAF		48556
1		(TDS) SM 2540C-2011	1	07/28/2017 1759	AJG		47796

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	6.06			su	1
Specific Conductance - Field		120.1	100		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	24.4			° C	1
Turbidity - Field		180.1	2.3		1.0	NTU	1
Chloride		300.0	2.8		2.0	mg/L	1
TDS		SM 2540C-20	110		10	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SG25080-010
Description: UBC031
Matrix: Aqueous
Date Sampled: 07/25/2017 1445
Date Received: 07/25/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	5030B	8260B (SIM iso.)	1	08/01/2017 0017	JJG		48020

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	2

Surrogate	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		102	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG25080-010
Description: UBC031
Matrix: Aqueous
Date Sampled: 07/25/2017 1445
Date Received: 07/25/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/28/2017 1504	TML		47760

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		108	70-130
Bromofluorobenzene		113	70-130
Toluene-d8		114	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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ICP-AES Metals

Client: Smith Gardner, Inc.
Laboratory ID: SG25080-010
Description: UBC031
Matrix: Aqueous
Date Sampled: 07/25/2017 1445
Date Received: 07/25/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010D	1	08/08/2017 2053	CJZ	07/28/2017 0914	47739
2	3005A	6010D	1	08/09/2017 1702	CJZ	07/28/2017 0914	47739

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	7440-39-3	6010D	0.069		0.025	mg/L	1
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	ND		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	2
Nickel	7440-02-0	6010D	ND		0.040	mg/L	1
Zinc	7440-66-6	6010D	ND		0.020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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CVAA

Client: Smith Gardner, Inc.
Laboratory ID: SG25080-010
Description: UBC031
Matrix: Aqueous
Date Sampled: 07/25/2017 1445
Date Received: 07/25/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	07/27/2017 1521	COH	07/27/2017 1105	47632

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury	7439-97-6	7470A	ND		0.00020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG25080-011
Description: Field Blank
Matrix: Aqueous
Date Sampled: 07/25/2017 1100
Date Received: 07/25/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/28/2017 1024	TML		47760

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		109	70-130
Bromofluorobenzene		106	70-130
Toluene-d8		114	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG25080-012
Description: Trip Blank
Matrix: Aqueous
Date Sampled: 07/25/2017
Date Received: 07/25/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/28/2017 1047	TML		47760

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		105	70-130
Bromofluorobenzene		110	70-130
Toluene-d8		113	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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QC Summary

Inorganic non-metals - MB

Sample ID: SQ47796-001
Batch: 47796
Analytical Method: SM 2540C-2011

Matrix: Aqueous

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
TDS	ND		1	10	mg/L	07/28/2017 1759

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - LCS

Sample ID: SQ47796-002
Batch: 47796
Analytical Method: SM 2540C-2011

Matrix: Aqueous

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
TDS	1500	1400		1	92	90-110	07/28/2017 1759

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - MB

Sample ID: SQ48115-001
Batch: 48115
Analytical Method: 300.0

Matrix: Aqueous

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
Chloride	ND		1	2.0	mg/L	07/31/2017 1818

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - LCS

Sample ID: SQ48115-002
Batch: 48115
Analytical Method: 300.0
Matrix: Aqueous

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Chloride	20	20		1	99	90-110	07/31/2017 1843

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ
N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - MS

Sample ID: SG25080-002MS
Batch: 48115
Analytical Method: 300.0
Matrix: Aqueous

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Chloride	2.2	20	21		1	96	90-110	08/01/2017 0214

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ
N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - MSD

Sample ID: SG25080-002MD
Batch: 48115
Analytical Method: 300.0
Matrix: Aqueous

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Chloride	2.2	20	22		1	97	1.1	90-110	20	08/01/2017 0239

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ
N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - MB

Sample ID: SQ48556-001
Batch: 48556
Analytical Method: 300.0

Matrix: Aqueous

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
Chloride	ND		1	2.0	mg/L	08/03/2017 1948

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - LCS

Sample ID: SQ48556-002
Batch: 48556
Analytical Method: 300.0

Matrix: Aqueous

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Chloride	20	20		1	98	90-110	08/03/2017 2012

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - MS

Sample ID: SG25080-010MS
Batch: 48556
Analytical Method: 300.0

Matrix: Aqueous

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Chloride	2.8	20	22		1	95	90-110	08/03/2017 2124

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - MSD

Sample ID: SG25080-010MD
Batch: 48556
Analytical Method: 300.0
Matrix: Aqueous

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Chloride	2.8	20	22		1	94	0.66	90-110	20	08/03/2017 2148

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ
N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - MB

Sample ID: SQ47760-001
Batch: 47760
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
Acrolein	ND		1	20	ug/L	07/28/2017 0933
Acrylonitrile	ND		1	20	ug/L	07/28/2017 0933
Benzene	ND		1	5.0	ug/L	07/28/2017 0933
Bromodichloromethane	ND		1	5.0	ug/L	07/28/2017 0933
Bromoform	ND		1	5.0	ug/L	07/28/2017 0933
Bromomethane (Methyl bromide)	ND		1	10	ug/L	07/28/2017 0933
Carbon tetrachloride	ND		1	5.0	ug/L	07/28/2017 0933
Chlorobenzene	ND		1	5.0	ug/L	07/28/2017 0933
Chloroethane	ND		1	10	ug/L	07/28/2017 0933
2-Chloroethylvinylether	ND		1	10	ug/L	07/28/2017 0933
Chloroform	ND		1	5.0	ug/L	07/28/2017 0933
Chloromethane (Methyl chloride)	ND		1	10	ug/L	07/28/2017 0933
Dibromochloromethane	ND		1	10	ug/L	07/28/2017 0933
1,1-Dichloroethane	ND		1	5.0	ug/L	07/28/2017 0933
1,2-Dichloroethane	ND		1	5.0	ug/L	07/28/2017 0933
1,1-Dichloroethene	ND		1	5.0	ug/L	07/28/2017 0933
cis-1,2-Dichloroethene	ND		1	5.0	ug/L	07/28/2017 0933
trans-1,2-Dichloroethene	ND		1	5.0	ug/L	07/28/2017 0933
1,2-Dichloropropane	ND		1	5.0	ug/L	07/28/2017 0933
cis-1,3-Dichloropropene	ND		1	5.0	ug/L	07/28/2017 0933
trans-1,3-Dichloropropene	ND		1	5.0	ug/L	07/28/2017 0933
Ethylbenzene	ND		1	5.0	ug/L	07/28/2017 0933
Methylene chloride	ND		1	5.0	ug/L	07/28/2017 0933
1,1,2,2-Tetrachloroethane	ND		1	5.0	ug/L	07/28/2017 0933
Tetrachloroethene	ND		1	5.0	ug/L	07/28/2017 0933
Toluene	ND		1	5.0	ug/L	07/28/2017 0933
1,1,1-Trichloroethane	ND		1	5.0	ug/L	07/28/2017 0933
1,1,2-Trichloroethane	ND		1	5.0	ug/L	07/28/2017 0933
Trichloroethene	ND		1	5.0	ug/L	07/28/2017 0933
Vinyl chloride	ND		1	2.0	ug/L	07/28/2017 0933

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		105	70-130
Bromofluorobenzene		108	70-130
Toluene-d8		112	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - LCS

Sample ID: SQ47760-002
Batch: 47760
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acrolein	500	490		1	97	60-140	07/28/2017 0842
Acrylonitrile	100	99		1	99	70-130	07/28/2017 0842
Benzene	50	42		1	85	70-130	07/28/2017 0842
Bromodichloromethane	50	46		1	93	70-130	07/28/2017 0842
Bromoform	50	45		1	91	70-130	07/28/2017 0842
Bromomethane (Methyl bromide)	50	51		1	103	70-130	07/28/2017 0842
Carbon tetrachloride	50	50		1	99	70-130	07/28/2017 0842
Chlorobenzene	50	46		1	92	70-130	07/28/2017 0842
Chloroethane	50	55		1	109	70-130	07/28/2017 0842
Chloroform	50	48		1	97	70-130	07/28/2017 0842
Chloromethane (Methyl chloride)	50	58		1	116	60-140	07/28/2017 0842
Dibromochloromethane	50	46		1	92	70-130	07/28/2017 0842
1,1-Dichloroethane	50	48		1	95	70-130	07/28/2017 0842
1,2-Dichloroethane	50	44		1	88	70-130	07/28/2017 0842
1,1-Dichloroethene	50	47		1	95	70-130	07/28/2017 0842
cis-1,2-Dichloroethene	50	45		1	89	70-130	07/28/2017 0842
trans-1,2-Dichloroethene	50	45		1	90	70-130	07/28/2017 0842
1,2-Dichloropropane	50	48		1	95	70-130	07/28/2017 0842
cis-1,3-Dichloropropene	50	50		1	99	70-130	07/28/2017 0842
trans-1,3-Dichloropropene	50	46		1	92	70-130	07/28/2017 0842
Ethylbenzene	50	46		1	92	70-130	07/28/2017 0842
Methylene chloride	50	40		1	80	70-130	07/28/2017 0842
1,1,2,2-Tetrachloroethane	50	46		1	92	70-130	07/28/2017 0842
Tetrachloroethene	50	46		1	93	70-130	07/28/2017 0842
Toluene	50	47		1	94	70-130	07/28/2017 0842
1,1,1-Trichloroethane	50	49		1	98	70-130	07/28/2017 0842
1,1,2-Trichloroethane	50	44		1	88	70-130	07/28/2017 0842
Trichloroethene	50	46		1	92	70-130	07/28/2017 0842
Vinyl chloride	50	57		1	113	70-130	07/28/2017 0842

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		100	70-130
Bromofluorobenzene		104	70-130
Toluene-d8		107	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution) - MB

Sample ID: SQ47871-001
Batch: 47871
Analytical Method: 8260B (SIM iso.)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
1,4-Dioxane	ND		1	3.0	ug/L	07/29/2017 1342

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		103	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution) - LCS

Sample ID: SQ47871-002
Batch: 47871
Analytical Method: 8260B (SIM iso.)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,4-Dioxane	50	48		1	95	70-130	07/29/2017 1308

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		104	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution) - MB

Sample ID: SQ47936-001
Batch: 47936
Analytical Method: 8260B (SIM iso.)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
1,4-Dioxane	ND		1	3.0	ug/L	07/31/2017 1034

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		105	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution) - LCS

Sample ID: SQ47936-002
Batch: 47936
Analytical Method: 8260B (SIM iso.)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,4-Dioxane	50	49		1	99	70-130	07/31/2017 0928

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		106	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution) - LCSD

Sample ID: SQ47936-003
Batch: 47936
Analytical Method: 8260B (SIM iso.)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
1,4-Dioxane	50	49		1	99	0.11	70-130	20	07/31/2017 0952

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		106	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution) - MB

Sample ID: SQ48020-001
Batch: 48020
Analytical Method: 8260B (SIM iso.)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
1,4-Dioxane	ND		1	3.0	ug/L	07/31/2017 2130

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		104	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution) - LCS

Sample ID: SQ48020-002
Batch: 48020
Analytical Method: 8260B (SIM iso.)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,4-Dioxane	50	48		1	97	70-130	07/31/2017 2041

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		99	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution) - LCSD

Sample ID: SQ48020-003
Batch: 48020
Analytical Method: 8260B (SIM iso.)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
1,4-Dioxane	50	49		1	98	1.0	70-130	20	07/31/2017 2106

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		101	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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ICP-AES Metals - MB

Sample ID: SQ47739-001
Batch: 47739
Analytical Method: 6010D

Matrix: Aqueous
Prep Method: 3005A
Prep Date: 07/28/2017 914

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
Arsenic	ND		1	0.015	mg/L	07/30/2017 0514
Barium	ND		1	0.025	mg/L	07/30/2017 0514
Cadmium	ND		1	0.0050	mg/L	07/30/2017 0514
Chromium	ND		1	0.010	mg/L	07/30/2017 0514
Lead	ND		1	0.010	mg/L	07/30/2017 0514
Nickel	ND		1	0.040	mg/L	07/30/2017 0514
Zinc	ND		1	0.020	mg/L	07/30/2017 0514

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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ICP-AES Metals - LCS

Sample ID: SQ47739-002
Batch: 47739
Analytical Method: 6010D

Matrix: Aqueous
Prep Method: 3005A
Prep Date: 07/28/2017 914

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Arsenic	0.40	0.44		1	110	80-120	07/30/2017 0519
Barium	2.0	2.1		1	105	80-120	07/30/2017 0519
Cadmium	0.40	0.43		1	107	80-120	07/30/2017 0519
Chromium	2.0	1.9		1	97	80-120	07/30/2017 0519
Lead	0.40	0.42		1	105	80-120	07/30/2017 0519
Nickel	2.0	2.1		1	107	80-120	07/30/2017 0519
Zinc	2.0	2.2		1	111	80-120	07/30/2017 0519

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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ICP-AES Metals - MS

Sample ID: SG25080-001MS
Batch: 47739
Analytical Method: 6010D

Matrix: Aqueous
Prep Method: 3005A
Prep Date: 07/28/2017 914

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Arsenic	ND	0.40	0.42		1	106	75-125	08/08/2017 1940
Barium	ND	2.0	2.0		1	101	75-125	08/08/2017 1940
Cadmium	ND	0.40	0.42		1	105	75-125	08/08/2017 1940
Chromium	ND	2.0	2.0		1	101	75-125	08/08/2017 1940
Lead	ND	0.40	0.41		1	102	75-125	08/09/2017 1557
Nickel	ND	2.0	2.1		1	107	75-125	08/08/2017 1940
Zinc	ND	2.0	2.1		1	107	75-125	08/08/2017 1940

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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ICP-AES Metals - MSD

Sample ID: SG25080-001MD
Batch: 47739
Analytical Method: 6010D

Matrix: Aqueous
Prep Method: 3005A
Prep Date: 07/28/2017 914

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Arsenic	ND	0.40	0.43		1	107	1.2	75-125	20	08/08/2017 1954
Barium	ND	2.0	2.0		1	100	0.75	75-125	20	08/08/2017 1954
Cadmium	ND	0.40	0.42		1	105	0.19	75-125	20	08/08/2017 1954
Chromium	ND	2.0	2.0		1	100	1.8	75-125	20	08/08/2017 1954
Lead	ND	0.40	0.41		1	102	0.059	75-125	20	08/09/2017 1602
Nickel	ND	2.0	2.1		1	107	0.0047	75-125	20	08/08/2017 1954
Zinc	ND	2.0	2.1		1	107	0.019	75-125	20	08/08/2017 1954

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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CVAA - MB

Sample ID: SQ47632-001
Batch: 47632
Analytical Method: 7470A

Matrix: Aqueous
Prep Method: 7470A
Prep Date: 07/27/2017 1105

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
Mercury	ND		1	0.00020	mg/L	07/27/2017 1446

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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CVAA - LCS

Sample ID: SQ47632-002
Batch: 47632
Analytical Method: 7470A

Matrix: Aqueous
Prep Method: 7470A
Prep Date: 07/27/2017 1105

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Mercury	0.0020	0.0021		1	103	80-120	07/27/2017 1449

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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CVAA - MS

Sample ID: SG25080-010MS
Batch: 47632
Analytical Method: 7470A

Matrix: Aqueous
Prep Method: 7470A
Prep Date: 07/27/2017 1105

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Mercury	ND	0.0020	0.0020		1	100	85-115	07/27/2017 1524

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

CVAA - MSD

Sample ID: SG25080-010MD
Batch: 47632
Analytical Method: 7470A

Matrix: Aqueous
Prep Method: 7470A
Prep Date: 07/27/2017 1105

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Mercury	ND	0.0020	0.0019		1	96	3.6	85-115	20	07/27/2017 1527

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Chain of Custody
and
Miscellaneous Documents

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West Columbia, South Carolina 29172
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www.shealylab.com

Chain of Custody Record

Number

Client	Report to Contact	Telephone No. / Fax No. / Email	Quote No.
Smith Gardner	Kevin Anderson	919-828-0577	15127
Address: 14 North Bolyan Ave	Sampler's Signature: x	Waybill No.	Page 1 of 2
City: Raleigh / State: NC / Zip Code: 27603	Printed Name: Wesley Wheless	Analysis (Attach list if more space is needed)	
Project Name: Pinewood Detection Monitoring (GW)			
Project Number	P.O Number		

SG25080

Sample ID / Description (Containers for each sample may be combined on one line)	Date	Time	G=Grab C=Composite	Matrix: Aqueous	Solid	Non-Aq.	No. of Containers by Preservation Type: Unpres.	H2SO4	HNO3	HCL	NaOH	5035 kit	NaOH+Zn	VOC	1,4-Dioxane SIM	Metals + Hg - As,Ba,Cd,Cr,Pb,Ni,Z	Chloride/TDS						
MW-054T	7/25/17	1545	G	X			2		1	6													
VBC-051		1540																					
MW-052T		1550																					
MW-029		1500																					
MW-030		1340																					
VBC-030		1520																					
VBC-052		1430																					
VBC-018		1050																					
VBC-017		1335																					
VBC-031		1445																					

Possible Hazard Identification
[X] Non-Hazard [ ] Flammable [ ] Skin Irritant [ ] Poison [ ] Unknown

Sample Disposal
[ ] Return to Client [X] Disposal by Lab

Note: All samples are retained for six weeks from receipt unless other arrangements are made

Turn Around Time Required (Prior lab approval required for expedited TAT)
[X] Standard [ ] Rush (Please Specify)

QC Requirements (Please Specify)

1. Relinquished by: Wesley Wheless	Date: 7/25/17	Time: 1630	1. Received by:	Date: 7/25/17	Time: 1630
2. Relinquished by:	Date:	Time:	2. Received by:	Date:	Time:
3. Relinquished by:	Date: 7/25/17	Time: 1835	3. Laboratory Received by:	Date: 7-25-17	Time: 1835

Comments

LAB USE ONLY
Received on Ice (Check) [X] Y [ ] N [ ] Ice Pack

Receipt Temp. 5 °C

Document Number: F-AD-104 Effective Date 08-10-10

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106 Vantage Point Drive
West Columbia, South Carolina 29172
Telephone No. (803) 791-9700 Fax No. (803) 791-9111
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Chain of Custody Record

Number

Client	Report to Contact	Telephone No. / Fax No. / Email	Quote No.
Smith Gardner	Kevin Anderson	919-828-0577	15127
Address 14 North Bolyan Ave	Sampler's Signature x	Waybill No.	Page 2 of 2
City: Raleigh; State: NC; Zip Code: 27603	Printed Name: Wesley Wheless		
Project Name: Pinewood Detection Monitoring (GW)			
Project Number	P.O Number		

Analysis (Attach list if more space is needed)

SG25080

Sample ID / Description (Containers for each sample may be combined on one line)	Date	Time	G=Grab C=Composite	Matrix: Aqueous	Solid	Non-Aq.	No. of Containers by Preservation Type: Unpres.	H2SO4	HNO3	HCL	NaOH	5035 kit	NaOH+Zn	VOC	1,4-Dioxane SIM	Metals + Hg - As,Ba,Cd,Cr,Pb,Ni,Z	Chloride/TDS
Field Blank	7/25/17	1100	G	X			2		1	6							

Possible Hazard Identification
[X] Non-Hazard [ ] Flammable [ ] Skin Irritant [ ] Poison [ ] Unknown

Sample Disposal
[ ] Return to Client [X] Disposal by Lab

Note: All samples are retained for six weeks from receipt unless other arrangements are made

Turn Around Time Required (Prior lab approval required for expedited TAT)
[X] Standard [ ] Rush (Please Specify)

QC Requirements (Please Specify)

	Date	Time		Date	Time
1. Relinquished by: Wesley Wheless	7/25/17	1630	1. Received by:	7/25/17	1630
2. Relinquished by:	Date	Time	2. Received by	Date	Time
3. Relinquished by:	7/25/17	1835	3. Laboratory Received by:	7-25-17	1835

Comments

LAB USE ONLY
Received on Ice (Check) [X] Y [ ] N [ ] Ice Pack

Receipt Temp. 5 °C

Document Number: F-AD-104 Effective Date 08-10-10

Shealy Environmental Services, Inc
Document Number: MED018C-08

Page 1 of 1
Effective Date: 03/07/2017
Expiry Date: 03/07/2022

Sample Receipt Checklist (SRC)

Client: S&G Cooler Inspected by/date: EC 7-25-17 Lot #: SG25080

Means of receipt: ☑ SESI ☐ Client ☐ UPS ☐ FedEx ☐ Other			
Yes ☐	No ☑		1. Were custody seals present on the cooler?
Yes ☐	No ☐	NA ☑	2. If custody seals were present, were they intact and unbroken?

pH strip ID: 17-1172 Cl strip ID: _____

Cooler ID/Original temperature upon receipt/Derived (corrected) temperature upon receipt:

_____ / _____ °C 15 / 15 °C _____ / _____ °C _____ / _____ °C

Method: ☑ Temperature Blank ☐ Against Bottles IR Gun ID: 6 IR Gun Correction Factor: 0 °C

Method of coolant: ☑ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ None

Yes ☐	No ☐	NA ☑	3. If temperature of any cooler exceeded 6.0°C, was Project Manager Notified? PM was Notified by: phone / email / face-to-face (circle one).
Yes ☐	No ☐	NA ☑	4. Is the commercial courier's packing slip attached to this form?
Yes ☑	No ☐		5. Were proper custody procedures (relinquished/received) followed?
Yes ☑	No ☐		6. Were sample IDs listed on the COC?
Yes ☑	No ☐		7. Were sample IDs listed on all sample containers?
Yes ☑	No ☐		8. Was collection date & time listed on the COC?
Yes ☑	No ☐		9. Was collection date & time listed on all sample containers?
Yes ☑	No ☐		10. Did all container label information (ID, date, time) agree with the COC?
Yes ☑	No ☐		11. Were tests to be performed listed on the COC?
Yes ☐	No ☑		12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)? Rec 6 HCl & 1 NP Vial
Yes ☑	No ☐		13. Was adequate sample volume available?
Yes ☑	No ☐		14. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes ☑	No ☐		15. Were any samples containers missing/excess (circle one) samples Not listed on COC?
Yes ☐	No ☐	NA ☐	16. Were bubbles present >"pea-size" (¼" or 6mm in diameter) in any VOA vials?
Yes ☑	No ☐	NA ☐	17. Were all DRO/metals/nutrient samples received at a pH of < 2?
Yes ☐	No ☐	NA ☑	18. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9?
Yes ☐	No ☐	NA ☑	19. Were all applicable NH3/TKN/cyanide/phenol/BNA (< 0.5mg/L) samples free of residual chlorine?
Yes ☐	No ☐	NA ☑	20. Were collection temperatures documented on the COC for NC samples?
Yes ☐	No ☐	NA ☑	21. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc…) correctly transcribed from the COC into the comment section in LIMS?
Yes ☐	No ☑		22. Was the quote number used taken from the container label?

Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s) _____ were received incorrectly preserved and were adjusted accordingly in sample receiving with _____ (H_2SO_4, HNO_3, HCl, NaOH) using SR # _____.

Sample(s) MW-029(S), MW-030(S); _____ were received with bubbles >6 mm in diameter.

Samples(s) _____ were received with TRC > 0.5 mg/L (If #21 is No) and were adjusted accordingly in sample receiving with sodium thiosulfate ($Na_2S_2O_3$) with Shealy ID: _____.

SC Drinking Water Project Sample(s) pH verified to be < 2 by _____ Date: _____

Sample(s) _____ were Not received at a pH of < 2 and were adjusted accordingly using SR# _____

Sample labels applied by: EC Verified by: _____ Date: 7-25-17

Comments: Rec Trip Blank not on COC

4"

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID MW-054T Sample Time 1545

Field Personnel CE, BR, PO, WW Sample Date 7/25/17

Weather Conditions OVERCAST / SUNNY Air Temperature (°F) 98

Total Depth (ft.) 54.00 (from well log) Lwc: 6.19

Depth to Static Water Surface (ft.) 47.81

Calculated Well Volume (1 casing volume) (gal.) 5

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 25

Measured Flow Rate (gal/min) 0.5

Calculated Pumping Time (length of time in minutes) 50

Actual Pumping Time (length of time in minutes) 35

Check-back Time 1050

Recovery Time (if needed) 24

pH Calibration During Purging (4, 7, 10) (circle two) Actual Reading 4.01/7.01 pH

pH Calibration During Sampling (4, 7, 10) (circle two) Actual Reading _____ pH _____ Date

Purge Start Time	1040	Purge Stop Time	1115
Purge Date	7/24/17	Total Gallons Purged	5 (DRY)
Purge Method	WW		

	Well Volume Units	Initial	1	2	3	4	5
Volume Purged	gal.	—			C sample		
Time	-	1040			1545		
Temperature	°C	20.7			21.9		
pH	Std. units	5.95			5.27		
Conductivity	µmhos/cm	140			160		
Turbidity	NTUs	—			2.39		

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☐ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☒
VOC	Yes ☒ No ☐	Cyanide (NaOH)	Yes ☐ No ☒
Metals (HNO_3)	Yes ☒ No ☐	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☒
Rinsate Blank	Yes ☐ No ☒	Field Blank	Yes ☐ No ☒
Metals verified (<2 pH)	Yes ☐ No ☒	(10% of samples verified per SAP)	

4"

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID UBC-051 Sample Time 1540

Field Personnel CE, GR, FO, WW Sample Date 7/25/17

Weather Conditions OVERCAST / SUNNY Air Temperature (°F) 98

Total Depth (ft.) 107.00 (from well log) LWC: 48.39

Depth to Static Water Surface (ft.) 58.61

Calculated Well Volume (1 casing volume) (gal.) 32

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 160

Measured Flow Rate (gal/min) 1.0

Calculated Pumping Time (length of time in minutes) 160

Actual Pumping Time (length of time in minutes) _____

Check-back Time 1150

Recovery Time (if needed) 24

pH Calibration During Purging (4.0, 7.0, 10) (circle two) Actual Reading 4.01/7.01 pH

pH Calibration During Sampling (4.0, 7.0, 10) (circle two) Actual Reading 4.01/7.01 pH 7/25/17 Date

Purge Start Time	1120	Purge Stop Time		
Purge Date	7/24/17	Total Gallons Purged		
Purge Method	WW			

	Well Volume Units	Initial	1	2	3	4	5
Volume Purged	gal.	—			@ Sample		
Time	-	1120			1540		
Temperature	°C	22.1			27.5		
pH	Std. units	7.41			6.55		
Conductivity	µmhos/cm	126			1420		
Turbidity	NTUs	—			5.83		

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☒ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☒
VOC	Yes ☒ No ☐	Cyanide (NaOH)	Yes ☐ No ☒
Metals (HNO_3)	Yes ☒ No ☐	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☒
Rinsate Blank	Yes ☐ No ☒	Field Blank	Yes ☐ No ☐
Metals verified (<2 pH)	Yes ☐ No ☒ (10% of samples verified per SAP)		

4"

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID MW-052T Sample Time 1550

Field Personnel CE, BR, FO, WW Sample Date _____

Weather Conditions OVERCAST Air Temperature (°F) _____

Total Depth (ft.) 55.00 (from well log) LWC: 9.11

Depth to Static Water Surface (ft.) 45.89

Calculated Well Volume (1 casing volume) (gal.) 6

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 30

Measured Flow Rate (gal/min) 0.5

Calculated Pumping Time (length of time in minutes) 60

Actual Pumping Time (length of time in minutes) _____

Check-back Time 1230

Recovery Time (if needed) 24

pH Calibration During Purging (4) 7 10) (circle two) Actual Reading 4.01/7.01 pH

pH Calibration During Sampling (4, 7, 10) (circle two) Actual Reading _____ pH _____ Date

Purge Start Time	1205	Purge Stop Time	
Purge Date	7/24/17	Total Gallons Purged	
Purge Method	WW		

	Well Volume Units	Initial	1	2	3	4	5
Volume Purged	gal.	—			@SAMPLE		
Time	-	1205			1550		
Temperature	°C	21.9			22.8		
pH	Std. units	6.28			6.13		
Conductivity	µmhos/cm	160			168 ~~9.80~~		
Turbidity	NTUs	—					

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☒ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☒
VOC	Yes ☒ No ☐	Cyanide (NaOH)	Yes ☐ No ☒
Metals (HNO_3)	Yes ☒ No ☐	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☒
Rinsate Blank	Yes ☐ No ☒	Field Blank	Yes ☐ No ☒
Metals verified (<2 pH)	Yes ☐ No ☒	(10% of samples verified per SAP)	

2"

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID MW-029 Sample Time 1500

Field Personnel FO, WW, CF, BR Sample Date 7/25/17

Weather Conditions OVERCAST / SUNNY Air Temperature (°F) 95

Total Depth (ft.) 49.00 (from well log) LWC: 9.09

Depth to Static Water Surface (ft.) 39.91

Calculated Well Volume (1 casing volume) (gal.) 2

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 10

Measured Flow Rate (gal/min) 0.5

Calculated Pumping Time (length of time in minutes) 20

Actual Pumping Time (length of time in minutes) 10

Check-back Time 1325

Recovery Time (if needed) 24

pH Calibration During Purging (4, 7, 10) (circle two) Actual Reading 4.01/7.01 pH

pH Calibration During Sampling (4, 7, 10) (circle two) Actual Reading 4.01/7.01 pH 7/25/17 Date

Purge Start Time	1305	Purge Stop Time	1325
Purge Date	7/24/17	Total Gallons Purged	(2) DRY
Purge Method	WW		

	Well Volume Units	Initial	1	2	3	4	5
Volume Purged	gal.	—			@SAMPLE		
Time	-	1315			1600		
Temperature	°C	24.3			25.2		
pH	Std. units	5.78			5.60		
Conductivity	µmhos/cm	210			200		
Turbidity	NTUs	—			631		

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☐ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☐
VOC	Yes ☐ No ☐	Cyanide (NaOH)	Yes ☐ No ☐
Metals (HNO_3)	Yes ☐ No ☐	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☐
Rinsate Blank	Yes ☐ No ☐	Field Blank	Yes ☐ No ☐
Metals verified (<2 pH)	Yes ☐ No ☐	(10% of samples verified per SAP)	

2"

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID MW-030 Sample Time 1340

Field Personnel CE, BR, FO, MW Sample Date 7/25/17

Weather Conditions OVERCAST / MOSTLY SUNNY Air Temperature (°F) 85

Total Depth (ft.) 52.50 (from well log) LWC: 10.94

Depth to Static Water Surface (ft.) 41.56

Calculated Well Volume (1 casing volume) (gal.) 2

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 10

Measured Flow Rate (gal/min) 0.5

Calculated Pumping Time (length of time in minutes) 20

Actual Pumping Time (length of time in minutes) 10

Check-back Time 1345

Recovery Time (if needed) 24

pH Calibration During Purging (4, 7, 10) (circle two) Actual Reading 4.01/7.01 pH

pH Calibration During Sampling (4, 7, 10) (circle two) Actual Reading 7.01/4.01 pH 7/25/17 Date

Purge Start Time	1335	Purge Stop Time	1345	
Purge Date	7/24/17	Total Gallons Purged	2 (DRY)	
Purge Method	WM			

	Well Volume Units	Initial	1	2	3	4	5
Volume Purged	gal.	—			(2) SAMPLE		
Time	-	1335			1340		
Temperature	°C	25.8			25.5		
pH	Std. units	6.67			6.19		
Conductivity	µmhos/cm	190			190		
Turbidity	NTUs	—			13.8		

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☑ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☑
VOC	Yes ☑ No ☐	Cyanide (NaOH)	Yes ☐ No ☑
Metals (HNO_3)	Yes ☑ No ☐	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☑
Rinsate Blank	Yes ☐ No ☑	Field Blank	Yes ☐ No ☑
Metals verified (<2 pH)	Yes ☑ No ☐ (10% of samples verified per SAP)		

#42

4"

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID VBC-030 Sample Time 1520

Field Personnel CE, JAW Sample Date 7-25-17

Weather Conditions _____ Air Temperature (°F) _____

Total Depth (ft.) 109.00 (from well log) WC: 48.64

Depth to Static Water Surface (ft.) 109.00 60.36

Calculated Well Volume (1 casing volume) (gal.) 32

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 160

Measured Flow Rate (gal/min) 0.5

Calculated Pumping Time (length of time in minutes) 320

Actual Pumping Time (length of time in minutes) _____

Check-back Time 1030

Recovery Time (if needed) 3

pH Calibration During Purging (4, 7, 10) (circle two) Actual Reading 4.0/7.01 pH

pH Calibration During Sampling (4, 7, 10) (circle two) Actual Reading _____ pH _____ Date

Purge Start Time	0930	Purge Stop Time	1150
Purge Date	7/24/17	Total Gallons Purged	32 (DUP)
Purge Method	WW		

	Well Volume Units	Initial	1	2	3	4	5
Volume Purged	Gal.	—			@ Sample		
Time	-	0930			1520		
Temperature	°C	22.3			26.7		
pH	Std. units	6.90			5.97		
Conductivity	µmhos/cm	110			120		
Turbidity	NTUs	—			2.81		

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☒ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☒
VOC	Yes ☒ No ☐	Cyanide (NaOH)	Yes ☐ No ☒
Metals (HNO_3)	Yes ☒ No ☐	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☒
Rinsate Blank	Yes ☐ No ☒	Field Blank	Yes ☐ No ☒
Metals verified (<2 pH)	Yes ☐ No ☒	(10% of samples verified per SAP)	

A'

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID UBC-052 Sample Time 1430

Field Personnel CE, WW Sample Date 7/25/17

Weather Conditions Sunny Air Temperature (°F) 95

Total Depth (ft.) 118.00 (from well log) UWC - 52-50

Depth to Static Water Surface (ft.) 65.50

Calculated Well Volume (1 casing volume) (gal.) 35

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 175

Measured Flow Rate (gal/min) 1.0

Calculated Pumping Time (length of time in minutes) 175

Actual Pumping Time (length of time in minutes) _____

Check-back Time 1015

Recovery Time (if needed) 3

pH Calibration During Purging (4.0, 7, 10) (circle two) Actual Reading 4.01/7.01 pH

pH Calibration During Sampling (4.0, 7, 10) (circle two) Actual Reading 4.01/7.01 pH 7/25/17 Date

Purge Start Time	0940	Purge Stop Time	1155
Purge Date	7/25/17	Total Gallons Purged	35 (est)
Purge Method	WW		

	Well Volume Units	Initial	1	2	3	4	5
Volume Purged	Gal.	—			@Sample		
Time	-	0940			1430		
Temperature	°C	21.2			24.9		
pH	Std. units	6.13			6.12		
Conductivity	µmhos/cm	100			100		
Turbidity	NTUs	—			2.68		

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☒ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☒
VOC	Yes ☒ No ☐	Cyanide (NaOH)	Yes ☐ No ☒
Metals (HNO_3)	Yes ☒ No ☐	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☒
Rinsate Blank	Yes ☐ No ☒	Field Blank	Yes ☐ No ☒
Metals verified (<2 pH)	Yes ☐ No ☒	(10% of samples verified per SAP)	

4"

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID UBC-018 Sample Time 1050

Field Personnel CE, WW Sample Date 7/25/17

Weather Conditions Sunny Air Temperature (°F) 92

Total Depth (ft.) 105.03 (from well log) GWE: 46.54

Depth to Static Water Surface (ft.) 58.46

Calculated Well Volume (1 casing volume) (gal.) 31

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 155

Measured Flow Rate (gal/min) 1.0

Calculated Pumping Time (length of time in minutes) 155

Actual Pumping Time (length of time in minutes) 90

Check-back Time 0950

Recovery Time (if needed) NA

pH Calibration During Purging (4, 7, 10) (circle two) Actual Reading 4.01/7.01 pH

pH Calibration During Sampling (4, 7, 10) (circle two) Actual Reading 4.01/7.01 pH _____ Date

Purge Start Time	0920	Purge Stop Time	~~93~~ 1050
Purge Date	7/24/17	Total Gallons Purged	93 C
Purge Method	WW		

	Well Volume Units	Initial	1	2	3	4	5
Volume Purged	Gal.	—	31	62	93		
Time	-	0920	1000	1030	1050		
Temperature	°C	20.9	20.7	21.3	21.4		
pH	Std. units	5.75	6.35	6.18	6.24		
Conductivity	µmhos/cm	100	100	100	100		
Turbidity	NTUs	—	—	—	2.61		

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☒ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☒
VOC	Yes ☒ No ☐	Cyanide (NaOH)	Yes ☐ No ☒
Metals (HNO_3)	Yes ☒ No ☐	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☒
Rinsate Blank	Yes ☐ No ☒	Field Blank	Yes ☒ No ☐
Metals verified (<2 pH)	Yes ☒ No ☐	(10% of samples verified per SAP)	

pH<2

FIELD BLANK @ 1100

4"

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID MW-017 Sample Time 1335

Field Personnel CE, WW Sample Date 7/25/17

Weather Conditions _____ Air Temperature (°F) _____

Total Depth (ft.) 108.00 (from well log) MW-17: 52.52

Depth to Static Water Surface (ft.) 55.48

Calculated Well Volume (1 casing volume) (gal.) 35

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 175

Measured Flow Rate (gal/min) 1.0

Calculated Pumping Time (length of time in minutes) 175

Actual Pumping Time (length of time in minutes) 275

Check-back Time 1025

Recovery Time (if needed) NA

pH Calibration During Purging (4, 7, 10) (circle two) Actual Reading 4.01/7.01 pH

pH Calibration During Sampling (4, 7, 10) (circle two) Actual Reading 4.01/7.01 pH 7/25/17 Date

Purge Start Time	0950	Purge Stop Time	1335
Purge Date	7/25/17	Total Gallons Purged	105
Purge Method	WW		

	Well Volume Units	Initial	1	2	3	4	5
Volume Purged	Gal.	—	35	70	105		
Time	-	0950	1130	1230	1335		
Temperature	°C	21.4	22.9	21.9	22.1		
pH	Std. units	5.96	6.05	6.12	6.04		
Conductivity	µmhos/cm	90	110	100	100		
Turbidity	NTUs	~	—	—	2.63		

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☑ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☐
VOC	Yes ☑ No ☐	Cyanide (NaOH)	Yes ☐ No ☐
Metals (HNO_3)	Yes ☑ No ☐	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☐
Rinsate Blank	Yes ☐ No ☑	Field Blank	Yes ☐ No ☐
Metals verified (<2 pH)	Yes ☑ No ☐	(10% of samples verified per SAP)	

pH<2

4"

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID VBC-031 Sample Time 1445

Field Personnel CE, WW Sample Date 7/25/17

Weather Conditions Sunny Air Temperature (°F) 95

Total Depth (ft.) 155.00 (from well log) EWC: 63.17

Depth to Static Water Surface (ft.) 91.83

Calculated Well Volume (1 casing volume) (gal.) 42

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 210

Measured Flow Rate (gal/min) 1.0

Calculated Pumping Time (length of time in minutes) 210

Actual Pumping Time (length of time in minutes) 205

Check-back Time 1200

Recovery Time (if needed) N/A

pH Calibration During Purging (4, (7), 10) (circle two) Actual Reading 4.01/7.01 pH

pH Calibration During Sampling (4, (7), 10) (circle two) Actual Reading 4.01/7.01 pH 7/25/17 Date

Purge Start Time	1120	Purge Stop Time	1445
Purge Date	7/25/17	Total Gallons Purged	126
Purge Method	WW		

	Well Volume Units	Initial	1	2	3	4	5
Volume Purged	Gal.	—	31	62	93		
Time	-	1120	1240	1340	1445		
Temperature	°C	23.5	21.9	21.8	24.4		
pH	Std. units	6.30	6.53	6.20	6.06		
Conductivity	µmhos/cm	100	100	100	100		
Turbidity	NTUs	—	—	—	2.74		

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☒ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☒
VOC	Yes ☒ No ☐	Cyanide (NaOH)	Yes ☐ No ☒
Metals (HNO_3)	Yes ☒ No ☐	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☒
Rinsate Blank	Yes ☐ No ☒	Field Blank	Yes ☐ No ☒
Metals verified (<2 pH)	Yes ☐ No ☒	(10% of samples verified per SAP)	

SHEALY ENVIRONMENTAL SERVICES, INC.

Report of Analysis

Smith Gardner, Inc.
14 North Boylan Avenue
Raleigh, NC 27603
Attention: Kevin Anderson

Project Name: Pinewood LF GW (Detection Monitoring)

Lot Number:**SG26094**

Date Completed:08/11/2017

08/11/2017 9:11 AM
Approved and released by:
Project Manager: Kelly M. Nance

The electronic signature above is the equivalent of a handwritten signature.

Shealy Environmental Services, Inc.
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Case Narrative
Smith Gardner, Inc.
Lot Number: SG26094

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

Sample Summary
Smith Gardner, Inc.
Lot Number: SG26094

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	MW080TR	Aqueous	07/26/2017 1610	07/26/2017
002	MW061T	Aqueous	07/26/2017 1430	07/26/2017
003	MW114T	Aqueous	07/26/2017 1455	07/26/2017
004	MW116T	Aqueous	07/26/2017 1540	07/26/2017
005	MW115T	Aqueous	07/26/2017 1505	07/26/2017
006	MW117T	Aqueous	07/26/2017 1530	07/26/2017
007	UBC048	Aqueous	07/26/2017 1345	07/26/2017
008	UBC049	Aqueous	07/26/2017 1520	07/26/2017
009	UBC059	Aqueous	07/26/2017 1220	07/26/2017
010	Field Blank	Aqueous	07/26/2017 1355	07/26/2017
011	Trip Blank	Aqueous	07/26/2017	07/26/2017

(11 samples)

Detection Summary

Smith Gardner, Inc.

Lot Number: SG26094

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	MW080TR	Aqueous	Chloride	300.0	2.7		mg/L	6
001	MW080TR	Aqueous	TDS	SM 2540C-	130		mg/L	6
001	MW080TR	Aqueous	Barium	6010D	0.088		mg/L	9
002	MW061T	Aqueous	Chloride	300.0	16		mg/L	11
002	MW061T	Aqueous	TDS	SM 2540C-	400		mg/L	11
002	MW061T	Aqueous	Barium	6010D	0.026		mg/L	14
003	MW114T	Aqueous	Chloride	300.0	2.4		mg/L	16
003	MW114T	Aqueous	TDS	SM 2540C-	140		mg/L	16
003	MW114T	Aqueous	Barium	6010D	0.11		mg/L	19
004	MW116T	Aqueous	Chloride	300.0	2.0		mg/L	21
004	MW116T	Aqueous	TDS	SM 2540C-	100		mg/L	21
004	MW116T	Aqueous	Barium	6010D	0.078		mg/L	24
005	MW115T	Aqueous	Chloride	300.0	5.1		mg/L	26
005	MW115T	Aqueous	TDS	SM 2540C-	180		mg/L	26
005	MW115T	Aqueous	Barium	6010D	0.15		mg/L	29
006	MW117T	Aqueous	Chloride	300.0	2.2		mg/L	31
006	MW117T	Aqueous	TDS	SM 2540C-	150		mg/L	31
006	MW117T	Aqueous	Barium	6010D	0.10		mg/L	34
007	UBC048	Aqueous	Chloride	300.0	2.7		mg/L	36
007	UBC048	Aqueous	TDS	SM 2540C-	120		mg/L	36
007	UBC048	Aqueous	Barium	6010D	0.083		mg/L	39
008	UBC049	Aqueous	Chloride	300.0	2.7		mg/L	41
008	UBC049	Aqueous	TDS	SM 2540C-	110		mg/L	41
008	UBC049	Aqueous	Barium	6010D	0.094		mg/L	44
009	UBC059	Aqueous	Chloride	300.0	2.6		mg/L	46
009	UBC059	Aqueous	TDS	SM 2540C-	96		mg/L	46
009	UBC059	Aqueous	Barium	6010D	0.083		mg/L	49

(27 detections)

Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SG26094-001
Description: MW080TR
Matrix: Aqueous
Date Sampled: 07/26/2017 1610
Date Received: 07/26/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	07/26/2017 1610	CAE		
1		(Specific Con) 120.1	1	07/26/2017 1610	CAE		
1		(Temperature) SM 2550B-2010	1	07/26/2017 1610	CAE		
1		(Turbidity -) 180.1	1	07/26/2017 1610	CAE		
1		(Chloride) 300.0	1	08/05/2017 0717	TAF		48483
1		(TDS) SM 2540C-2011	1	08/01/2017 1648	AJG		48039

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	7.05			su	1
Specific Conductance - Field		120.1	110		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	22.2			° C	1
Turbidity - Field		180.1	2.6		1.0	NTU	1
Chloride		300.0	2.7		2.0	mg/L	1
TDS		SM 2540C-20	130		10	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SG26094-001
Description: MW080TR
Matrix: Aqueous
Date Sampled: 07/26/2017 1610
Date Received: 07/26/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	07/29/2017 1909	TML		47871

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		109	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG26094-001
Description: MW080TR
Matrix: Aqueous
Date Sampled: 07/26/2017 1610
Date Received: 07/26/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/28/2017 2215	ECP		47853

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		104	70-130
Bromofluorobenzene		100	70-130
Toluene-d8		103	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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ICP-AES Metals

Client: Smith Gardner, Inc.
Laboratory ID: SG26094-001
Description: MW080TR
Matrix: Aqueous
Date Sampled: 07/26/2017 1610
Date Received: 07/26/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010D	1	08/07/2017 2328	CJZ	07/27/2017 0847	47615

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	7440-39-3	6010D	0.088		0.025	mg/L	1
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	ND		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	1
Nickel	7440-02-0	6010D	ND		0.040	mg/L	1
Zinc	7440-66-6	6010D	ND		0.020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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CVAA

Client: Smith Gardner, Inc.
Laboratory ID: SG26094-001
Description: MW080TR
Matrix: Aqueous
Date Sampled: 07/26/2017 1610
Date Received: 07/26/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	07/27/2017 1529	COH	07/27/2017 1105	47632

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury	7439-97-6	7470A	ND		0.00020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SG26094-002
Description: MW061T
Matrix: Aqueous
Date Sampled: 07/26/2017 1430
Date Received: 07/26/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	07/26/2017 1430	CAE		
1		(Specific Con) 120.1	1	07/26/2017 1430	CAE		
1		(Temperature) SM 2550B-2010	1	07/26/2017 1430	CAE		
1		(Turbidity -) 180.1	1	07/26/2017 1430	CAE		
1		(Chloride) 300.0	1	08/05/2017 0742	TAF		48483
1		(TDS) SM 2540C-2011	1	07/31/2017 1712	AJG		47935

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	6.46			su	1
Specific Conductance - Field		120.1	190		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	22.7			° C	1
Turbidity - Field		180.1	4.6		1.0	NTU	1
Chloride		300.0	16		2.0	mg/L	1
TDS		SM 2540C-20	400		10	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SG26094-002
Description: MW061T
Matrix: Aqueous
Date Sampled: 07/26/2017 1430
Date Received: 07/26/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	07/29/2017 1933	TML		47871

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		110	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG26094-002
Description: MW061T
Matrix: Aqueous
Date Sampled: 07/26/2017 1430
Date Received: 07/26/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/28/2017 2238	ECP		47853

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		105	70-130
Bromofluorobenzene		101	70-130
Toluene-d8		102	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
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N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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ICP-AES Metals

Client: Smith Gardner, Inc.
Laboratory ID: SG26094-002
Description: MW061T
Matrix: Aqueous
Date Sampled: 07/26/2017 1430
Date Received: 07/26/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010D	1	08/07/2017 2332	CJZ	07/27/2017 0847	47615

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	7440-39-3	6010D	0.026		0.025	mg/L	1
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	ND		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	1
Nickel	7440-02-0	6010D	ND		0.040	mg/L	1
Zinc	7440-66-6	6010D	ND		0.020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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CVAA

Client: Smith Gardner, Inc.
Laboratory ID: SG26094-002
Description: MW061T
Matrix: Aqueous
Date Sampled: 07/26/2017 1430
Date Received: 07/26/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	07/27/2017 1532	COH	07/27/2017 1105	47632

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury	7439-97-6	7470A	ND		0.00020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SG26094-003
Description: MW114T
Matrix: Aqueous
Date Sampled: 07/26/2017 1455
Date Received: 07/26/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	07/26/2017 1455	CAE		
1		(Specific Con) 120.1	1	07/26/2017 1455	CAE		
1		(Temperature) SM 2550B-2010	1	07/26/2017 1455	CAE		
1		(Turbidity -) 180.1	1	07/26/2017 1455	CAE		
1		(Chloride) 300.0	1	08/05/2017 0808	TAF		48483
1		(TDS) SM 2540C-2011	1	08/01/2017 1648	AJG		48039

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	6.72			su	1
Specific Conductance - Field		120.1	120		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	23.0			° C	1
Turbidity - Field		180.1	7.4		1.0	NTU	1
Chloride		300.0	2.4		2.0	mg/L	1
TDS		SM 2540C-20	140		10	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SG26094-003
Description: MW114T
Matrix: Aqueous
Date Sampled: 07/26/2017 1455
Date Received: 07/26/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	07/29/2017 1958	TML		47871

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		108	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG26094-003
Description: MW114T
Matrix: Aqueous
Date Sampled: 07/26/2017 1455
Date Received: 07/26/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/28/2017 2301	ECP		47853

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		104	70-130
Bromofluorobenzene		101	70-130
Toluene-d8		103	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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ICP-AES Metals

Client: Smith Gardner, Inc.
Laboratory ID: SG26094-003
Description: MW114T
Matrix: Aqueous
Date Sampled: 07/26/2017 1455
Date Received: 07/26/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010D	1	08/07/2017 2337	CJZ	07/27/2017 0847	47615

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	7440-39-3	6010D	0.11		0.025	mg/L	1
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	ND		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	1
Nickel	7440-02-0	6010D	ND		0.040	mg/L	1
Zinc	7440-66-6	6010D	ND		0.020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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CVAA

Client: Smith Gardner, Inc.
Laboratory ID: SG26094-003
Description: MW114T
Matrix: Aqueous
Date Sampled: 07/26/2017 1455
Date Received: 07/26/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	07/27/2017 1534	COH	07/27/2017 1105	47632

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury	7439-97-6	7470A	ND		0.00020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SG26094-004
Description: MW116T
Matrix: Aqueous
Date Sampled: 07/26/2017 1540
Date Received: 07/26/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	07/26/2017 1540	CAE		
1		(Specific Con) 120.1	1	07/26/2017 1540	CAE		
1		(Temperature) SM 2550B-2010	1	07/26/2017 1540	CAE		
1		(Turbidity -) 180.1	1	07/26/2017 1540	CAE		
1		(Chloride) 300.0	1	08/05/2017 0833	TAF		48483
1		(TDS) SM 2540C-2011	1	08/01/2017 1648	AJG		48039

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	7.1			su	1
Specific Conductance - Field		120.1	110		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	21.6			° C	1
Turbidity - Field		180.1	4.2		1.0	NTU	1
Chloride		300.0	2.0		2.0	mg/L	1
TDS		SM 2540C-20	100		10	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SG26094-004
Description: MW116T
Matrix: Aqueous
Date Sampled: 07/26/2017 1540
Date Received: 07/26/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	5030B	8260B (SIM iso.)	1	08/01/2017 0041	JJG		48020

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	2

Surrogate	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		102	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG26094-004
Description: MW116T
Matrix: Aqueous
Date Sampled: 07/26/2017 1540
Date Received: 07/26/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/28/2017 2323	ECP		47853

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		102	70-130
Bromofluorobenzene		102	70-130
Toluene-d8		101	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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ICP-AES Metals

Client: Smith Gardner, Inc.
Laboratory ID: SG26094-004
Description: MW116T
Matrix: Aqueous
Date Sampled: 07/26/2017 1540
Date Received: 07/26/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010D	1	08/07/2017 2341	CJZ	07/27/2017 0847	47615

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	7440-39-3	6010D	0.078		0.025	mg/L	1
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	ND		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	1
Nickel	7440-02-0	6010D	ND		0.040	mg/L	1
Zinc	7440-66-6	6010D	ND		0.020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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CVAA

Client: Smith Gardner, Inc.
Laboratory ID: SG26094-004
Description: MW116T
Matrix: Aqueous
Date Sampled: 07/26/2017 1540
Date Received: 07/26/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	07/27/2017 1536	COH	07/27/2017 1105	47632

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury	7439-97-6	7470A	ND		0.00020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SG26094-005
Description: MW115T
Matrix: Aqueous
Date Sampled: 07/26/2017 1505
Date Received: 07/26/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	07/26/2017 1505	CAE		
1		(Specific Con) 120.1	1	07/26/2017 1505	CAE		
1		(Temperature) SM 2550B-2010	1	07/26/2017 1505	CAE		
1		(Turbidity -) 180.1	1	07/26/2017 1505	CAE		
1		(Chloride) 300.0	1	08/05/2017 0858	TAF		48483
1		(TDS) SM 2540C-2011	1	08/01/2017 1648	AJG		48039

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	6.83			su	1
Specific Conductance - Field		120.1	130		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	22.0			° C	1
Turbidity - Field		180.1	3.6		1.0	NTU	1
Chloride		300.0	5.1		2.0	mg/L	1
TDS		SM 2540C-20	180		10	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SG26094-005
Description: MW115T
Matrix: Aqueous
Date Sampled: 07/26/2017 1505
Date Received: 07/26/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	07/29/2017 2046	TML		47871

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		101	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG26094-005
Description: MW115T
Matrix: Aqueous
Date Sampled: 07/26/2017 1505
Date Received: 07/26/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/28/2017 2345	ECP		47853

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		104	70-130
Bromofluorobenzene		99	70-130
Toluene-d8		101	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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ICP-AES Metals

Client: Smith Gardner, Inc.
Laboratory ID: SG26094-005
Description: MW115T
Matrix: Aqueous
Date Sampled: 07/26/2017 1505
Date Received: 07/26/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010D	1	08/07/2017 2346	CJZ	07/27/2017 0847	47615

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	7440-39-3	6010D	0.15		0.025	mg/L	1
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	ND		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	1
Nickel	7440-02-0	6010D	ND		0.040	mg/L	1
Zinc	7440-66-6	6010D	ND		0.020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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CVAA

Client: Smith Gardner, Inc.
Laboratory ID: SG26094-005
Description: MW115T
Matrix: Aqueous
Date Sampled: 07/26/2017 1505
Date Received: 07/26/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	07/27/2017 1539	COH	07/27/2017 1105	47632

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury	7439-97-6	7470A	ND		0.00020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SG26094-006
Description: MW117T
Matrix: Aqueous
Date Sampled: 07/26/2017 1530
Date Received: 07/26/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	07/26/2017 1530	CAE		
1		(Specific Con) 120.1	1	07/26/2017 1530	CAE		
1		(Temperature) SM 2550B-2010	1	07/26/2017 1530	CAE		
1		(Turbidity -) 180.1	1	07/26/2017 1530	CAE		
1		(Chloride) 300.0	1	08/05/2017 1103	TAF		48483
1		(TDS) SM 2540C-2011	1	08/01/2017 1648	AJG		48039

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	6.97			su	1
Specific Conductance - Field		120.1	120		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	22.0			° C	1
Turbidity - Field		180.1	3.0		1.0	NTU	1
Chloride		300.0	2.2		2.0	mg/L	1
TDS		SM 2540C-20	150		10	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SG26094-006
Description: MW117T
Matrix: Aqueous
Date Sampled: 07/26/2017 1530
Date Received: 07/26/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	07/29/2017 2111	TML		47871

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		101	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG26094-006
Description: MW117T
Matrix: Aqueous
Date Sampled: 07/26/2017 1530
Date Received: 07/26/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/29/2017 0008	ECP		47853

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		100	70-130
Bromofluorobenzene		104	70-130
Toluene-d8		100	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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ICP-AES Metals

Client: Smith Gardner, Inc.
Description: MW117T
Date Sampled: 07/26/2017 1530
Date Received: 07/26/2017

Laboratory ID: SG26094-006
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010D	1	08/07/2017 2351	CJZ	07/27/2017 0847	47615

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	7440-39-3	6010D	0.10		0.025	mg/L	1
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	ND		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	1
Nickel	7440-02-0	6010D	ND		0.040	mg/L	1
Zinc	7440-66-6	6010D	ND		0.020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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CVAA

Client: Smith Gardner, Inc.
Laboratory ID: SG26094-006
Description: MW117T
Matrix: Aqueous
Date Sampled: 07/26/2017 1530
Date Received: 07/26/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	07/27/2017 1546	COH	07/27/2017 1105	47632

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury	7439-97-6	7470A	ND		0.00020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SG26094-007
Description: UBC048
Matrix: Aqueous
Date Sampled: 07/26/2017 1345
Date Received: 07/26/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	07/26/2017 1345	CAE		
1		(Specific Con) 120.1	1	07/26/2017 1345	CAE		
1		(Temperature) SM 2550B-2010	1	07/26/2017 1345	CAE		
1		(Turbidity -) 180.1	1	07/26/2017 1345	CAE		
1		(Chloride) 300.0	1	08/05/2017 1128	TAF		48483
1		(TDS) SM 2540C-2011	1	07/31/2017 1712	AJG		47935

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	7.09			su	1
Specific Conductance - Field		120.1	100		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	21.4			° C	1
Turbidity - Field		180.1	3.3		1.0	NTU	1
Chloride		300.0	2.7		2.0	mg/L	1
TDS		SM 2540C-20	120		10	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SG26094-007
Description: UBC048
Matrix: Aqueous
Date Sampled: 07/26/2017 1345
Date Received: 07/26/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	07/29/2017 2135	TML		47871

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		104	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

Shealy Environmental Services, Inc.
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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG26094-007
Description: UBC048
Matrix: Aqueous
Date Sampled: 07/26/2017 1345
Date Received: 07/26/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/29/2017 0030	ECP		47853

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		100	70-130
Bromofluorobenzene		102	70-130
Toluene-d8		102	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
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N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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ICP-AES Metals

Client: Smith Gardner, Inc.
Laboratory ID: SG26094-007
Description: UBC048
Matrix: Aqueous
Date Sampled: 07/26/2017 1345
Date Received: 07/26/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010D	1	08/07/2017 2355	CJZ	07/27/2017 0847	47615

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	7440-39-3	6010D	0.083		0.025	mg/L	1
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	ND		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	1
Nickel	7440-02-0	6010D	ND		0.040	mg/L	1
Zinc	7440-66-6	6010D	ND		0.020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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CVAA

Client: Smith Gardner, Inc.
Laboratory ID: SG26094-007
Description: UBC048
Matrix: Aqueous
Date Sampled: 07/26/2017 1345
Date Received: 07/26/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	07/27/2017 1549	COH	07/27/2017 1105	47632

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury	7439-97-6	7470A	ND		0.00020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SG26094-008
Description: UBC049
Matrix: Aqueous
Date Sampled: 07/26/2017 1520
Date Received: 07/26/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	07/26/2017 1520	CAE		
1		(Specific Con) 120.1	1	07/26/2017 1520	CAE		
1		(Temperature) SM 2550B-2010	1	07/26/2017 1520	CAE		
1		(Turbidity -) 180.1	1	07/26/2017 1520	CAE		
1		(Chloride) 300.0	1	08/08/2017 1835	KWP		48689
1		(TDS) SM 2540C-2011	1	08/01/2017 1648	AJG		48039

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	6.98			su	1
Specific Conductance - Field		120.1	100		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	21.4			° C	1
Turbidity - Field		180.1	1.7		1.0	NTU	1
Chloride		300.0	2.7		2.0	mg/L	1
TDS		SM 2540C-20	110		10	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SG26094-008
Description: UBC049
Matrix: Aqueous
Date Sampled: 07/26/2017 1520
Date Received: 07/26/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	07/29/2017 2159	TML		47871

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		105	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG26094-008
Description: UBC049
Matrix: Aqueous
Date Sampled: 07/26/2017 1520
Date Received: 07/26/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/29/2017 0053	ECP		47853

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		106	70-130
Bromofluorobenzene		101	70-130
Toluene-d8		101	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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ICP-AES Metals

Client: Smith Gardner, Inc.
Laboratory ID: SG26094-008
Description: UBC049
Matrix: Aqueous
Date Sampled: 07/26/2017 1520
Date Received: 07/26/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010D	1	08/08/2017 0009	CJZ	07/27/2017 0847	47615

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	7440-39-3	6010D	0.094		0.025	mg/L	1
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	ND		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	1
Nickel	7440-02-0	6010D	ND		0.040	mg/L	1
Zinc	7440-66-6	6010D	ND		0.020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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CVAA

Client: Smith Gardner, Inc.
Laboratory ID: SG26094-008
Description: UBC049
Matrix: Aqueous
Date Sampled: 07/26/2017 1520
Date Received: 07/26/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	07/27/2017 1552	COH	07/27/2017 1105	47632

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury	7439-97-6	7470A	ND		0.00020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SG26094-009
Description: UBC059
Matrix: Aqueous
Date Sampled: 07/26/2017 1220
Date Received: 07/26/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	07/26/2017 1220	CAE		
1		(Specific Con) 120.1	1	07/26/2017 1220	CAE		
1		(Temperature) SM 2550B-2010	1	07/26/2017 1220	CAE		
1		(Turbidity -) 180.1	1	07/26/2017 1220	CAE		
1		(Chloride) 300.0	1	08/08/2017 1859	KWP		48689
1		(TDS) SM 2540C-2011	1	07/31/2017 1712	AJG		47935

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	6.88			su	1
Specific Conductance - Field		120.1	100		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	21.6			° C	1
Turbidity - Field		180.1	2.9		1.0	NTU	1
Chloride		300.0	2.6		2.0	mg/L	1
TDS		SM 2540C-20	96		10	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SG26094-009
Description: UBC059
Matrix: Aqueous
Date Sampled: 07/26/2017 1220
Date Received: 07/26/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	5030B	8260B (SIM iso.)	1	08/01/2017 0358	JJG		48020

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	2

Surrogate	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		103	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG26094-009
Description: UBC059
Matrix: Aqueous
Date Sampled: 07/26/2017 1220
Date Received: 07/26/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/29/2017 0116	ECP		47853

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		105	70-130
Bromofluorobenzene		101	70-130
Toluene-d8		102	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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ICP-AES Metals

Client: Smith Gardner, Inc.
Laboratory ID: SG26094-009
Description: UBC059
Matrix: Aqueous
Date Sampled: 07/26/2017 1220
Date Received: 07/26/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010D	1	08/08/2017 0014	CJZ	07/27/2017 0847	47615

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	7440-39-3	6010D	0.083		0.025	mg/L	1
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	ND		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	1
Nickel	7440-02-0	6010D	ND		0.040	mg/L	1
Zinc	7440-66-6	6010D	ND		0.020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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CVAA

Client: Smith Gardner, Inc.
Laboratory ID: SG26094-009
Description: UBC059
Matrix: Aqueous
Date Sampled: 07/26/2017 1220
Date Received: 07/26/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	07/27/2017 1555	COH	07/27/2017 1105	47632

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury	7439-97-6	7470A	ND		0.00020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG26094-010
Description: Field Blank
Matrix: Aqueous
Date Sampled: 07/26/2017 1355
Date Received: 07/26/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/29/2017 0139	ECP		47853

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		105	70-130
Bromofluorobenzene		100	70-130
Toluene-d8		102	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG26094-011
Description: Trip Blank
Matrix: Aqueous
Date Sampled: 07/26/2017
Date Received: 07/26/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/27/2017 1906	ECP		47717

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		106	70-130
Bromofluorobenzene		109	70-130
Toluene-d8		114	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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QC Summary

Inorganic non-metals - MB

Sample ID: SQ47935-001
Batch: 47935
Analytical Method: SM 2540C-2011

Matrix: Aqueous

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
TDS	ND		1	10	mg/L	07/31/2017 1712

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - LCS

Sample ID: SQ47935-002
Batch: 47935
Analytical Method: SM 2540C-2011

Matrix: Aqueous

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
TDS	1500	1500		1	100	90-110	07/31/2017 1712

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - MB

Sample ID: SQ48039-001
Batch: 48039
Analytical Method: SM 2540C-2011

Matrix: Aqueous

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
TDS	ND		1	10	mg/L	08/01/2017 1648

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - LCS

Sample ID: SQ48039-002
Batch: 48039
Analytical Method: SM 2540C-2011

Matrix: Aqueous

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
TDS	1500	1400		1	96	90-110	08/01/2017 1648

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - MB

Sample ID: SQ48483-001
Batch: 48483
Analytical Method: 300.0

Matrix: Aqueous

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
Chloride	ND		1	2.0	mg/L	08/05/2017 0012

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - LCS

Sample ID: SQ48483-002
Batch: 48483
Analytical Method: 300.0
Matrix: Aqueous

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Chloride	20	19		1	94	90-110	08/04/2017 2347

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ
N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - MS

Sample ID: SG26094-005MS
Batch: 48483
Analytical Method: 300.0
Matrix: Aqueous

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Chloride	5.1	20	24		1	94	90-110	08/05/2017 0923

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ
N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - MSD

Sample ID: SG26094-005MD
Batch: 48483
Analytical Method: 300.0
Matrix: Aqueous

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Chloride	5.1	20	24		1	92	1.4	90-110	20	08/05/2017 1038

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ
N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - MB

Sample ID: SQ48689-001
Batch: 48689
Analytical Method: 300.0

Matrix: Aqueous

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
Chloride	ND		1	2.0	mg/L	08/08/2017 1811

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - LCS

Sample ID: SQ48689-002
Batch: 48689
Analytical Method: 300.0

Matrix: Aqueous

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Chloride	20	19		1	96	90-110	08/08/2017 1747

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - MB

Sample ID: SQ47717-001
Batch: 47717
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
Acrolein	ND		1	20	ug/L	07/27/2017 1830
Acrylonitrile	ND		1	20	ug/L	07/27/2017 1830
Benzene	ND		1	5.0	ug/L	07/27/2017 1830
Bromodichloromethane	ND		1	5.0	ug/L	07/27/2017 1830
Bromoform	ND		1	5.0	ug/L	07/27/2017 1830
Bromomethane (Methyl bromide)	ND		1	10	ug/L	07/27/2017 1830
Carbon tetrachloride	ND		1	5.0	ug/L	07/27/2017 1830
Chlorobenzene	ND		1	5.0	ug/L	07/27/2017 1830
Chloroethane	ND		1	10	ug/L	07/27/2017 1830
2-Chloroethylvinylether	ND		1	10	ug/L	07/27/2017 1830
Chloroform	ND		1	5.0	ug/L	07/27/2017 1830
Chloromethane (Methyl chloride)	ND		1	10	ug/L	07/27/2017 1830
Dibromochloromethane	ND		1	10	ug/L	07/27/2017 1830
1,1-Dichloroethane	ND		1	5.0	ug/L	07/27/2017 1830
1,2-Dichloroethane	ND		1	5.0	ug/L	07/27/2017 1830
1,1-Dichloroethene	ND		1	5.0	ug/L	07/27/2017 1830
cis-1,2-Dichloroethene	ND		1	5.0	ug/L	07/27/2017 1830
trans-1,2-Dichloroethene	ND		1	5.0	ug/L	07/27/2017 1830
1,2-Dichloropropane	ND		1	5.0	ug/L	07/27/2017 1830
cis-1,3-Dichloropropene	ND		1	5.0	ug/L	07/27/2017 1830
trans-1,3-Dichloropropene	ND		1	5.0	ug/L	07/27/2017 1830
Ethylbenzene	ND		1	5.0	ug/L	07/27/2017 1830
Methylene chloride	ND		1	5.0	ug/L	07/27/2017 1830
1,1,2,2-Tetrachloroethane	ND		1	5.0	ug/L	07/27/2017 1830
Tetrachloroethene	ND		1	5.0	ug/L	07/27/2017 1830
Toluene	ND		1	5.0	ug/L	07/27/2017 1830
1,1,1-Trichloroethane	ND		1	5.0	ug/L	07/27/2017 1830
1,1,2-Trichloroethane	ND		1	5.0	ug/L	07/27/2017 1830
Trichloroethene	ND		1	5.0	ug/L	07/27/2017 1830
Vinyl chloride	ND		1	2.0	ug/L	07/27/2017 1830

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		102	70-130
Bromofluorobenzene		108	70-130
Toluene-d8		111	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - LCS

Sample ID: SQ47717-002
Batch: 47717
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acrolein	500	460		1	91	60-140	07/27/2017 1733
Acrylonitrile	100	95		1	95	70-130	07/27/2017 1733
Benzene	50	47		1	95	70-130	07/27/2017 1733
Bromodichloromethane	50	48		1	95	70-130	07/27/2017 1733
Bromoform	50	47		1	94	70-130	07/27/2017 1733
Bromomethane (Methyl bromide)	50	45		1	90	70-130	07/27/2017 1733
Carbon tetrachloride	50	48		1	96	70-130	07/27/2017 1733
Chlorobenzene	50	47		1	94	70-130	07/27/2017 1733
Chloroethane	50	50		1	100	70-130	07/27/2017 1733
Chloroform	50	46		1	92	70-130	07/27/2017 1733
Chloromethane (Methyl chloride)	50	52		1	104	60-140	07/27/2017 1733
Dibromochloromethane	50	50		1	100	70-130	07/27/2017 1733
1,1-Dichloroethane	50	46		1	93	70-130	07/27/2017 1733
1,2-Dichloroethane	50	45		1	91	70-130	07/27/2017 1733
1,1-Dichloroethene	50	48		1	96	70-130	07/27/2017 1733
cis-1,2-Dichloroethene	50	46		1	92	70-130	07/27/2017 1733
trans-1,2-Dichloroethene	50	47		1	94	70-130	07/27/2017 1733
1,2-Dichloropropane	50	50		1	99	70-130	07/27/2017 1733
cis-1,3-Dichloropropene	50	51		1	102	70-130	07/27/2017 1733
trans-1,3-Dichloropropene	50	50		1	100	70-130	07/27/2017 1733
Ethylbenzene	50	48		1	95	70-130	07/27/2017 1733
Methylene chloride	50	41		1	82	70-130	07/27/2017 1733
1,1,2,2-Tetrachloroethane	50	47		1	95	70-130	07/27/2017 1733
Tetrachloroethene	50	50		1	100	70-130	07/27/2017 1733
Toluene	50	51		1	102	70-130	07/27/2017 1733
1,1,1-Trichloroethane	50	46		1	93	70-130	07/27/2017 1733
1,1,2-Trichloroethane	50	48		1	96	70-130	07/27/2017 1733
Trichloroethene	50	47		1	95	70-130	07/27/2017 1733
Vinyl chloride	50	49		1	99	70-130	07/27/2017 1733

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		99	70-130
Bromofluorobenzene		110	70-130
Toluene-d8		114	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - MB

Sample ID: SQ47853-001
Batch: 47853
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
Acrolein	ND		1	20	ug/L	07/28/2017 2137
Acrylonitrile	ND		1	20	ug/L	07/28/2017 2137
Benzene	ND		1	5.0	ug/L	07/28/2017 2137
Bromodichloromethane	ND		1	5.0	ug/L	07/28/2017 2137
Bromoform	ND		1	5.0	ug/L	07/28/2017 2137
Bromomethane (Methyl bromide)	ND		1	10	ug/L	07/28/2017 2137
Carbon tetrachloride	ND		1	5.0	ug/L	07/28/2017 2137
Chlorobenzene	ND		1	5.0	ug/L	07/28/2017 2137
Chloroethane	ND		1	10	ug/L	07/28/2017 2137
2-Chloroethylvinylether	ND		1	10	ug/L	07/28/2017 2137
Chloroform	ND		1	5.0	ug/L	07/28/2017 2137
Chloromethane (Methyl chloride)	ND		1	10	ug/L	07/28/2017 2137
Dibromochloromethane	ND		1	10	ug/L	07/28/2017 2137
1,1-Dichloroethane	ND		1	5.0	ug/L	07/28/2017 2137
1,2-Dichloroethane	ND		1	5.0	ug/L	07/28/2017 2137
1,1-Dichloroethene	ND		1	5.0	ug/L	07/28/2017 2137
cis-1,2-Dichloroethene	ND		1	5.0	ug/L	07/28/2017 2137
trans-1,2-Dichloroethene	ND		1	5.0	ug/L	07/28/2017 2137
1,2-Dichloropropane	ND		1	5.0	ug/L	07/28/2017 2137
cis-1,3-Dichloropropene	ND		1	5.0	ug/L	07/28/2017 2137
trans-1,3-Dichloropropene	ND		1	5.0	ug/L	07/28/2017 2137
Ethylbenzene	ND		1	5.0	ug/L	07/28/2017 2137
Methylene chloride	ND		1	5.0	ug/L	07/28/2017 2137
1,1,2,2-Tetrachloroethane	ND		1	5.0	ug/L	07/28/2017 2137
Tetrachloroethene	ND		1	5.0	ug/L	07/28/2017 2137
Toluene	ND		1	5.0	ug/L	07/28/2017 2137
1,1,1-Trichloroethane	ND		1	5.0	ug/L	07/28/2017 2137
1,1,2-Trichloroethane	ND		1	5.0	ug/L	07/28/2017 2137
Trichloroethene	ND		1	5.0	ug/L	07/28/2017 2137
Vinyl chloride	ND		1	2.0	ug/L	07/28/2017 2137

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		99	70-130
Bromofluorobenzene		101	70-130
Toluene-d8		101	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - LCS

Sample ID: SQ47853-002
Batch: 47853
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acrolein	500	560		1	112	60-140	07/28/2017 2037
Acrylonitrile	100	110		1	105	70-130	07/28/2017 2037
Benzene	50	53		1	106	70-130	07/28/2017 2037
Bromodichloromethane	50	52		1	104	70-130	07/28/2017 2037
Bromoform	50	41		1	82	70-130	07/28/2017 2037
Bromomethane (Methyl bromide)	50	50		1	99	70-130	07/28/2017 2037
Carbon tetrachloride	50	60		1	120	70-130	07/28/2017 2037
Chlorobenzene	50	53		1	105	70-130	07/28/2017 2037
Chloroethane	50	52		1	104	70-130	07/28/2017 2037
Chloroform	50	53		1	106	70-130	07/28/2017 2037
Chloromethane (Methyl chloride)	50	48		1	95	60-140	07/28/2017 2037
Dibromochloromethane	50	52		1	103	70-130	07/28/2017 2037
1,1-Dichloroethane	50	54		1	108	70-130	07/28/2017 2037
1,2-Dichloroethane	50	51		1	101	70-130	07/28/2017 2037
1,1-Dichloroethene	50	57		1	114	70-130	07/28/2017 2037
cis-1,2-Dichloroethene	50	53		1	107	70-130	07/28/2017 2037
trans-1,2-Dichloroethene	50	53		1	107	70-130	07/28/2017 2037
1,2-Dichloropropane	50	53		1	106	70-130	07/28/2017 2037
cis-1,3-Dichloropropene	50	53		1	106	70-130	07/28/2017 2037
trans-1,3-Dichloropropene	50	51		1	102	70-130	07/28/2017 2037
Ethylbenzene	50	54		1	109	70-130	07/28/2017 2037
Methylene chloride	50	50		1	99	70-130	07/28/2017 2037
1,1,2,2-Tetrachloroethane	50	51		1	103	70-130	07/28/2017 2037
Tetrachloroethene	50	55		1	110	70-130	07/28/2017 2037
Toluene	50	54		1	108	70-130	07/28/2017 2037
1,1,1-Trichloroethane	50	55		1	110	70-130	07/28/2017 2037
1,1,2-Trichloroethane	50	49		1	98	70-130	07/28/2017 2037
Trichloroethene	50	54		1	109	70-130	07/28/2017 2037
Vinyl chloride	50	54		1	108	70-130	07/28/2017 2037

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		98	70-130
Bromofluorobenzene		99	70-130
Toluene-d8		105	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution) - MB

Sample ID: SQ47871-001
Batch: 47871
Analytical Method: 8260B (SIM iso.)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
1,4-Dioxane	ND		1	3.0	ug/L	07/29/2017 1342

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		103	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution) - LCS

Sample ID: SQ47871-002
Batch: 47871
Analytical Method: 8260B (SIM iso.)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,4-Dioxane	50	48		1	95	70-130	07/29/2017 1308

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		104	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution) - MB

Sample ID: SQ48020-001
Batch: 48020
Analytical Method: 8260B (SIM iso.)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
1,4-Dioxane	ND		1	3.0	ug/L	07/31/2017 2130

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		104	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution) - LCS

Sample ID: SQ48020-002
Batch: 48020
Analytical Method: 8260B (SIM iso.)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,4-Dioxane	50	48		1	97	70-130	07/31/2017 2041

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		99	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution) - LCSD

Sample ID: SQ48020-003
Batch: 48020
Analytical Method: 8260B (SIM iso.)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
1,4-Dioxane	50	49		1	98	1.0	70-130	20	07/31/2017 2106

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		101	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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ICP-AES Metals - MB

Sample ID: SQ47615-001
Batch: 47615
Analytical Method: 6010D

Matrix: Aqueous
Prep Method: 3005A
Prep Date: 07/27/2017 847

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
Arsenic	ND		1	0.015	mg/L	07/30/2017 0447
Barium	ND		1	0.025	mg/L	07/30/2017 0447
Cadmium	ND		1	0.0050	mg/L	07/30/2017 0447
Chromium	ND		1	0.010	mg/L	07/30/2017 0447
Lead	ND		1	0.010	mg/L	07/30/2017 0447
Nickel	ND		1	0.040	mg/L	07/30/2017 0447
Zinc	ND		1	0.020	mg/L	07/30/2017 0447

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

ICP-AES Metals - LCS

Sample ID: SQ47615-002
Batch: 47615
Analytical Method: 6010D

Matrix: Aqueous
Prep Method: 3005A
Prep Date: 07/27/2017 847

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Arsenic	0.40	0.45		1	112	80-120	07/30/2017 0451
Barium	2.0	2.1		1	107	80-120	07/30/2017 0451
Cadmium	0.40	0.43		1	108	80-120	07/30/2017 0451
Chromium	2.0	2.0		1	98	80-120	07/30/2017 0451
Lead	0.40	0.42		1	106	80-120	07/30/2017 0451
Nickel	2.0	2.1		1	107	80-120	07/30/2017 0451
Zinc	2.0	2.2		1	111	80-120	07/30/2017 0451

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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CVAA - MB

Sample ID: SQ47632-001
Batch: 47632
Analytical Method: 7470A

Matrix: Aqueous
Prep Method: 7470A
Prep Date: 07/27/2017 1105

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
Mercury	ND		1	0.00020	mg/L	07/27/2017 1446

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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CVAA - LCS

Sample ID: SQ47632-002
Batch: 47632
Analytical Method: 7470A

Matrix: Aqueous
Prep Method: 7470A
Prep Date: 07/27/2017 1105

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Mercury	0.0020	0.0021		1	103	80-120	07/27/2017 1449

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Chain of Custody

and

Miscellaneous Documents

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106 Vantage Point Drive
West Columbia, South Carolina 29172
Telephone No. (803) 791-9700 Fax No. (803) 791-9111
www.shealylab.com

Chain of Custody Record

Number

Client: Smith Gardner	Report to Contact: Kevin Anderson	Telephone No. / Fax No. / Email: 919-828-0577	Quote No.: 15127
Address: 14 North Bolyan Ave	Sampler's Signature: x [signature]	Waybill No.	Page: 1 of 1
City: Raleigh / State: NC / Zip Code: 27603	Printed Name: Wesley Wheless		
Project Name: Pinewood Detection Monitoring (GW)			
Project Number	P.O Number		

Analysis (Attach list if more space is needed)

SG26094

Sample ID / Description (Containers for each sample may be combined on one line)	Date	Time	G=Grab C=Composite	Matrix: Aqueous	Solid	Non-Aq.	No. of Containers by Preservation Type: Unpres.	H2SO4	HNO3	HCl	NaOH	5035 kit	NaOH+Zn	VOC	1,4-Dioxane SIM	Metals + Hg - As,Ba,Cd,Cr,Pb,Ni,Z	Chloride/TDS	
MW-080TR	7-26-17	1610	G	X			2		1	6				✓	✓	✓	✓	
MW-061T		1430												✓	✓	✓	✓	
MW-114T		1455												✓	✓	✓	✓	
MW-116T		1540												✓	✓	✓	✓	
MW-115T		1505												✓	✓	✓	✓	
MW-117T		1530												✓	✓	✓	✓	
UBC-048		1345												✓	✓	✓	✓	
UBC-049		1520												✓	✓	✓	✓	
UBC-059		1220												✓	✓	✓	✓	
Field Blank	✓	1355	↓	↓			↓		↓	↓				✓				Trip Blank as Well

Possible Hazard Identification
[X] Non-Hazard [ ] Flammable [ ] Skin Irritant
[ ] Poison [ ] Unknown

Sample Disposal
[ ] Return to Client [X] Disposal by Lab

Note: All samples are retained for six weeks from receipt unless other arrangements are made

Turn Around Time Required (Prior lab approval required for expedited TAT)
[X] Standard [ ] Rush (Please Specify)

QC Requirements (Please Specify)

1. Relinquished by: Wesley Wheless	Date: 7-26-17	Time: 1640	1. Received by: [signature]	Date: 7/26/17	Time: 1640
2. Relinquished by	Date	Time	2. Received by	Date	Time
3. Relinquished by: [signature]	Date: 7/26/17	Time: 1800	3. Laboratory Received by: Evan Calle	Date: 7-26-17	Time: 1800

Comments

LAB USE ONLY
Received on Ice (Check) [X] Y [ ] N [ ] Ice Pack
Receipt Temp. 5.2 °C

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SHEALY ENVIRONMENTAL SERVICES, INC.

Shealy Environmental Services, Inc.
Document Number: MB00180-08

Page 1 of 1
Effective Date: 03/07/2017
Expiry Date: 03/07/2022

Sample Receipt Checklist (SRC)

Client: Smith Gardner Cooler Inspected by/date: EJC 7-26-17 Lot #: SG26694

Means of receipt: ☑ SESI ☐ Client ☐ UPS ☐ FedEx ☐ Other			
Yes ☐	No ☑		1. Were custody seals present on the cooler?
Yes ☐	No ☐	NA ☑	2. If custody seals were present, were they intact and unbroken?

pH strip ID: 17-1172 Cl strip ID:
Cooler ID/Original temperature upon receipt/Derived (corrected) temperature upon receipt:
/ / °C 15.2/15.2 °C / / °C / / °C
Method: ☑ Temperature Blank ☐ Against Bottles IR Gun ID: 6 IR Gun Correction Factor: 0 °C
Method of coolant: ☑ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ None

Yes ☐	No ☐	NA ☑	3. If temperature of any cooler exceeded 6.0°C, was Project Manager Notified? PM was Notified by: phone / email / face-to-face (circle one).
Yes ☐	No ☐	NA ☑	4. Is the commercial courier's packing slip attached to this form?
Yes ☑	No ☐		5. Were proper custody procedures (relinquished/received) followed?
Yes ☑	No ☐		6. Were sample IDs listed on the COC?
Yes ☑	No ☐		7. Were sample IDs listed on all sample containers?
Yes ☑	No ☐		8. Was collection date & time listed on the COC?
Yes ☑	No ☐		9. Was collection date & time listed on all sample containers?
Yes ☑	No ☐		10. Did all container label information (ID, date, time) agree with the COC?
Yes ☑	No ☐		11. Were tests to be performed listed on the COC?
Yes ☐	No ☑		12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)? Rec. 6 HCl + 1 NP vial/sample
Yes ☑	No ☐		13. Was adequate sample volume available?
Yes ☑	No ☐		14. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes ☑	No ☐		15. Were any samples containers missing/~~excess~~ (circle one) samples Not listed on COC?
Yes ☑	No ☐	NA ☐	16. Were bubbles present >"pea-size" (¼"or 6mm in diameter) in any VOA vials?
Yes ☑	No ☐	NA ☐	17. Were all DRO/metals/nutrient samples received at a pH of < 2?
Yes ☐	No ☐	NA ☑	18. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9?
Yes ☐	No ☐	NA ☑	19. Were all applicable NH3/TKN/cyanide/phenol/BNA (< 0.5mg/L) samples free of residual chlorine?
Yes ☐	No ☐	NA ☑	20. Were collection temperatures documented on the COC for NC samples?
Yes ☐	No ☐	NA ☑	21. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc…) correctly transcribed from the COC into the comment section in LIMS?
Yes ☐	No ☑		22. Was the quote number used taken from the container label?

Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s) _____ were received incorrectly preserved and were adjusted accordingly in sample receiving with _____ (H_2SO_4, HNO_3, HCl, NaOH) using SR # _____.

Sample(s) Field Blank (4); Trip Blank (1) were received with bubbles >6 mm in diameter.

Samples(s) _____ were received with TRC > 0.5 mg/L (If #21 is No) and were adjusted accordingly in sample receiving with sodium thiosulfate ($Na_2S_2O_3$) with Shealy ID: _____.

SC Drinking Water Project Sample(s) pH verified to be < 2 by _____ Date: _____

Sample(s) _____ were Not received at a pH of < 2 and were adjusted accordingly using SR# _____

Sample labels applied by: EJC Verified by: _____ Date: 7-26-17

Comments: Rec. Trip Blanks not listed on COC

Shealy Environmental Services, Inc.
106 Vantage Point Drive
West Columbia, South Carolina 29172
Telephone No. (803) 791-9700 Fax No. (803) 791-9111
www.shealylab.com

Chain of Custody Record

Number SG27053

Client: Smith Gardner	Report to Contact: Kevin Anderson	Telephone No. / Fax No. / Email: 919-828-0577	Quote No.: 15127
Address: 14 North Bolyan Ave	Sampler's Signature: x	Waybill No.	Page: 1 of 1
City: Raleigh / State: NC / Zip Code: 27603	Printed Name: WESLEY WHEELESS		
Project Name: Pinewood Detection Monitoring (CW)			
Project Number	P.O Number		

Sample ID / Description (Containers for each sample may be combined on one line)	Date	Time	G=Grab C=Composite	Matrix: Aqueous	Solid	Non-Aq.	No. of Containers by Preservation Type: Unpres.	H2SO4	HNO3	HCL	NaOH	5035 kit	NaOH+Zn	Analysis: VOC	1,4 Dioxane SIM	Metals - Hg - As,Ba,Cd,Cr,Pb,Ni,Z	Chloride/TDS	Remarks
MW-144T	7/27/17	1430	G	X			2		1	6				✓	✓	✓	✓	
UBC-057		1340					2		1	6				✓	✓	✓	✓	
UBC-058		1350					2		1	6				✓	✓	✓	✓	
UBC-060		1430					2		1	6				✓	✓	✓	✓	
UBC-028AR		1440					2		1	6				✓	✓	✓	✓	
UBC-025		1250					2		1	6				✓	✓	✓	✓	
UBC-027		1410					2		1	6				✓	✓	✓	✓	
UBC-061		1210					2		1	6				✓	✓	✓	✓	
UBC-063		1420					2		1	6				✓	✓	✓	✓	
FIELD BLANK	↓	1255	↓	↓			2		1	6				✓				* ALSO RUN TRIP BLANK VOC ONLY

Possible Hazard Identification: [X] Non-Hazard [ ] Flammable [ ] Skin Irritant [ ] Poison [ ] Unknown

Sample Disposal: [ ] Return to Client [X] Disposal by Lab

Note: All samples are retained for six weeks from receipt unless other arrangements are made

Turn Around Time Required (Prior lab approval required for expedited TAT): [X] Standard [ ] Rush (Please Specify)

QC Requirements (Please Specify)

	Date	Time		Date	Time
1. Relinquished by	7-27-17	1510	1. Received by	7/27/17	1510
2. Relinquished by	Date	Time	2. Received by	Date	Time
3. Relinquished by	Date 7/27/17	Time 1620	3. Laboratory Received by	Date 7/27/17	Time 1620
Comments			LAB USE ONLY Received on Ice (Check) [ ] Y [ ] N [ ] Ice Pack	Receipt Temp. 4.4	°C

Document Number: F-AD-104 Effective Date 08-10-10

Shealy Environmental Services, Inc.
Document Number: MB00180-08

Page 1 of 1
Effective Date: 03/07/2017
Expiry Date: 03/07/2022

Sample Receipt Checklist (SRC)

Client: Smith Gardner Cooler Inspected by/date: EC 7/27/17 Lot #: SG27053

Means of receipt: ☑ SESI ☐ Client ☐ UPS ☐ FedEx ☐ Other _____

Yes ☐	No ☑		1. Were custody seals present on the cooler?
Yes ☐	No ☐	NA ☐	2. If custody seals were present, were they intact and unbroken?

pH strip ID: 17 - 1172 Cl strip ID: _____

Cooler ID/Original temperature upon receipt/Derived (corrected) temperature upon receipt:

14 / 4.1 °C / / °C / / °C / / °C

Method: ☐ Temperature Blank ☐ Against Bottles IR Gun ID: 6 IR Gun Correction Factor: 0 °C

Method of coolant: ☑ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ None

Yes ☐	No ☐	NA ☑	3. If temperature of any cooler exceeded 6.0°C, was Project Manager Notified? PM was Notified by: phone / email / face-to-face (circle one).
Yes ☐	No ☐	NA ☑	4. Is the commercial courier's packing slip attached to this form?
Yes ☑	No ☐		5. Were proper custody procedures (relinquished/received) followed?
Yes ☑	No ☐		6. Were sample IDs listed on the COC?
Yes ☑	No ☐		7. Were sample IDs listed on all sample containers?
Yes ☑	No ☐		8. Was collection date & time listed on the COC?
Yes ☑	No ☐		9. Was collection date & time listed on all sample containers?
Yes ☑	No ☐		10. Did all container label information (ID, date, time) agree with the COC?
Yes ☑	No ☐		11. Were tests to be performed listed on the COC?
Yes ☑	No ☐		12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)?
Yes ☑	No ☐		13. Was adequate sample volume available?
Yes ☑	No ☐		14. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes ☑	No ☐		15. Were any samples containers missing/excess (circle one) samples Not listed on COC? TB
Yes ☐	No ☐	NA ☐	16. Were bubbles present >"pea-size" (¼"or 6mm in diameter) in any VOA vials?
Yes ☑	No ☐	NA ☐	17. Were all DRO/metals/nutrient samples received at a pH of < 2?
Yes ☐	No ☐	NA ☑	18. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9?
Yes ☐	No ☐	NA ☑	19. Were all applicable NH3/TKN/cyanide/phenol/BNA (< 0.5mg/L) samples free of residual chlorine?
Yes ☐	No ☐	NA ☑	20. Were collection temperatures documented on the COC for NC samples?
Yes ☐	No ☐	NA ☑	21. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc…) correctly transcribed from the COC into the comment section in LIMS?
Yes ☑	No ☐		22. Was the quote number used taken from the container label?

Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.) 15127

Sample(s) _____ were received incorrectly preserved and were adjusted accordingly in sample receiving with _____ (H_2SO_4, HNO_3, HCl, NaOH) using SR # _____.

Sample(s) 011 (1), 010 (1) were received with bubbles >6 mm in diameter.

Samples(s) _____ were received with TRC > 0.5 mg/L (If #21 is No) and were adjusted accordingly in sample receiving with sodium thiosulfate ($Na_2S_2O_3$) with Shealy ID: _____.

SC Drinking Water Project Sample(s) pH verified to be < 2 by _____ Date: _____

Sample(s) _____ were Not received at a pH of < 2 and were adjusted accordingly using SR# _____

Sample labels applied by: _____ Verified by: _____ Date: 7/27/17

Comments: _____

4"

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID MW ~~MW~~ - 080TR Sample Time 1610

Field Personnel WNW Sample Date 7-26-17

Weather Conditions cloudy Air Temperature (°F) _____

Total Depth (ft.) 105.00 (from well log) LWC: 21.14

Depth to Static Water Surface (ft.) 83.86

Calculated Well Volume (1 casing volume) (gal.) 14

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 70

Measured Flow Rate (gal/min) 0.5

Calculated Pumping Time (length of time in minutes) 140

Actual Pumping Time (length of time in minutes) _____

Check-back Time 1245

Recovery Time (if needed) 29

pH Calibration During Purging (4, 7, 10) (circle two) Actual Reading 4.01/7.01 pH

pH Calibration During Sampling (4, 7, 10) (circle two) Actual Reading _____pH _____Date

Purge Start Time	1215	Purge Stop Time		
Purge Date	7/25/17	Total Gallons Purged		
Purge Method	WW			

	Well Volume Units	Initial	1 Sample	2	3	4	5
Volume Purged	gal.	—					
Time	-	1215	1610				
Temperature	°C	22.3	22.2				
pH	Std. units	6.53	7.05				
Conductivity	µmhos/cm	130	110				
Turbidity	NTUs	—	2.63				

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☐ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☐
VOC	Yes ☐ No ☐	Cyanide (NaOH)	Yes ☐ No ☐
Metals (HNO_3)	Yes ☐ No ☐	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☐
Rinsate Blank	Yes ☐ No ☐	Field Blank	Yes ☐ No ☐
Metals verified (<2 pH)	Yes ☐ No ☐	(10% of samples verified per SAP)	

4"

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID MW-061T Sample Time 7-26-17

Field Personnel HAR Sample Date 1430

Weather Conditions Sunny Air Temperature (°F) _____

Total Depth (ft.) 60.00 (from well log) LWC: 20.25

Depth to Static Water Surface (ft.) 39.75

Calculated Well Volume (1 casing volume) (gal.) 14

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 70

Measured Flow Rate (gal/min) 0.5

Calculated Pumping Time (length of time in minutes) 140

Actual Pumping Time (length of time in minutes) _____

Check-back Time 1255

Recovery Time (if needed) 24

pH Calibration During Purging (4, 7, 10) (circle two) Actual Reading 4.01/7.01 pH

pH Calibration During Sampling (4, 7, 10) (circle two) Actual Reading _____ pH _____ Date

Purge Start Time	1225	Purge Stop Time		
Purge Date	7/25/17	Total Gallons Purged		
Purge Method	WW			

	Well Volume Units	Initial	1 Sample	2	3	4	5
Volume Purged	gal.	—					
Time	-	1225	1430				
Temperature	°C	23.1	22.9				
pH	Std. units	6.54	6.46				
Conductivity	µmhos/cm	220	190				
Turbidity	NTUs	—	4.60				

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☐ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☐
VOC	Yes ☐ No ☐	Cyanide (NaOH)	Yes ☐ No ☐
Metals (HNO_3)	Yes ☐ No ☐	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☐
Rinsate Blank	Yes ☐ No ☐	Field Blank	Yes ☐ No ☐
Metals verified (<2 pH)	Yes ☐ No ☐	(10% of samples verified per SAP)	

4"

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID MW-114T Sample Time 1455

Field Personnel WW Sample Date 7-26-17

Weather Conditions cloudy Air Temperature (°F) _____

Total Depth (ft.) 142.00 (from well log) LWC: 52.14

Depth to Static Water Surface (ft.) 89.86

Calculated Well Volume (1 casing volume) (gal.) 34

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) _____

Measured Flow Rate (gal/min) _____

Calculated Pumping Time (length of time in minutes) _____

Actual Pumping Time (length of time in minutes) _____

Check-back Time _____

Recovery Time (if needed) _____

pH Calibration During Purging (4, 7, 10) (circle two) Actual Reading 4.01/7.01 pH

pH Calibration During Sampling (4, 7, 10) (circle two) Actual Reading 4.01/7.01 pH 7/26/17 Date

Purge Start Time	1355	Purge Stop Time	1400
Purge Date	7/25/17	Total Gallons Purged	
Purge Method	WW		

	Well Volume Units	Initial	1 Sample	2	3	4	5
Volume Purged	gal.	—	—				
Time	-	1355	1455				
Temperature	°C	22.4	23.0				
pH	Std. units	6.64	6.72				
Conductivity	µmhos/cm	120	120				
Turbidity	NTUs	—	7.43				

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☑ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☑
VOC	Yes ☑ No ☐	Cyanide (NaOH)	Yes ☐ No ☑
Metals (HNO_3)	Yes ☑ No ☐	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☑
Rinsate Blank	Yes ☐ No ☑	Field Blank	Yes ☐ No ☑
Metals verified (<2 pH)	Yes ☐ No ☑	(10% of samples verified per SAP)	

4"

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID MW-116T Sample Time 1540

Field Personnel WNN Sample Date 7-26-17

Weather Conditions Cloudy Air Temperature (°F) 86

Total Depth (ft.) 144.50 (from well log) LWC - 55.82

Depth to Static Water Surface (ft.) 88.68

Calculated Well Volume (1 casing volume) (gal.) 37

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 185

Measured Flow Rate (gal/min) 0.5

Calculated Pumping Time (length of time in minutes) 270

Actual Pumping Time (length of time in minutes) _____

Check-back Time 1445

Recovery Time (if needed) _____

pH Calibration During Purging (4, 7, 10) (circle two) Actual Reading 4.01/7.01 pH

pH Calibration During Sampling (4, 7, 10) (circle two) Actual Reading 4.01/7.01 pH _____ Date

Purge Start Time	1400	Purge Stop Time	
Purge Date	7/25/17	Total Gallons Purged	
Purge Method	WP		

	Well Volume Units	Initial	1 Sample	2	3	4	5
Volume Purged	gal.	—	—				
Time	-	1400	1540				
Temperature	°C	23.2	21.6				
pH	Std. units	7.23	7.10				
Conductivity	µmhos/cm	120	110				
Turbidity	NTUs	✓	4.19				

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☐ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☐
VOC	Yes ☐ No ☐	Cyanide (NaOH)	Yes ☐ No ☐
Metals (HNO_3)	Yes ☐ No ☐	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☐
Rinsate Blank	Yes ☐ No ☐	Field Blank	Yes ☐ No ☐
Metals verified (<2 pH)	Yes ☐ No ☐	(10% of samples verified per SAP)	

4"

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID MW-115T Sample Time 1505

Field Personnel _____ Sample Date 7-26-17

Weather Conditions _____ Air Temperature (°F) _____

Total Depth (ft.) 153 (from well log) LHVC = 60.45

Depth to Static Water Surface (ft.) 92.55

Calculated Well Volume (1 casing volume) (gal.) 39

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 195

Measured Flow Rate (gal/min) 1

Calculated Pumping Time (length of time in minutes) 195

Actual Pumping Time (length of time in minutes) _____

Check-back Time _____

Recovery Time (if needed) 4

pH Calibration During Purging (4, 7, 10) (circle two) Actual Reading 4.01/7.01 pH

pH Calibration During Sampling (4, 7, 10) (circle two) Actual Reading 4.01/7.01 pH _____ Date

Purge Start Time	9:10	Purge Stop Time	1132
Purge Date	7-26-17	Total Gallons Purged	40
Purge Method	WW		

	Well Volume Units	Initial	1	2 Sample	3	4	5
Volume Purged	gal.	—	40				
Time	-	9:10	11:30	1505			
Temperature	°C	23.5	DRY	22.0			
pH	Std. units	6.74		6.83			
Conductivity	µmhos/cm	130	↓	130			
Turbidity	NTUs	—		3.64			

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☐ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☐
VOC	Yes ☐ No ☐	Cyanide (NaOH)	Yes ☐ No ☐
Metals (HNO_3)	Yes ☐ No ☐	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☐
Rinsate Blank	Yes ☐ No ☐	Field Blank	Yes ☐ No ☐
Metals verified (<2 pH)	Yes ☐ No ☐	(10% of samples verified per SAP)	

4"

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID MW-117T Sample Time 1530

Field Personnel WW Sample Date 7-26-17

Weather Conditions Sunny Air Temperature (°F) _____

Total Depth (ft.) 155 (from well log) 61.65

Depth to Static Water Surface (ft.) 93.35

Calculated Well Volume (1 casing volume) (gal.) 41

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 205

Measured Flow Rate (gal/min) 1

Calculated Pumping Time (length of time in minutes) 205

Actual Pumping Time (length of time in minutes) _____

Check-back Time 14:50

Recovery Time (if needed) 4

pH Calibration During Purging (4,7, 10) (circle two) Actual Reading 4.01/7.01 pH

pH Calibration During Sampling (4,7, 10) (circle two) Actual Reading 4.01/7.01 pH _____ Date

Purge Start Time	09:25	Purge Stop Time	1050
Purge Date	7-26-17	Total Gallons Purged	41
Purge Method	WV		

	Well Volume Units	Initial	1	2	3	4	5
Volume Purged	gal.	—	41	Sample			
Time	-	0925	Dry	1530			
Temperature	°C	21.2		22.0			
pH	Std. units	6.73		6.99			
Conductivity	µmhos/cm	126		120			
Turbidity	NTUs	—	V	3.02			

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☐ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☐
VOC	Yes ☐ No ☐	Cyanide (NaOH)	Yes ☐ No ☐
Metals (HNO_3)	Yes ☐ No ☐	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☐
Rinsate Blank	Yes ☐ No ☐	Field Blank	Yes ☐ No ☐
Metals verified (<2 pH)	Yes ☐ No ☐	(10% of samples verified per SAP)	

pH < 2

4"

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID VBC-048 Sample Time 1345

Field Personnel WMR Sample Date 7-26-17

Weather Conditions Sunny Air Temperature (°F) _____

Total Depth (ft.) 163 (from well log) 69.42

Depth to Static Water Surface (ft.) 93.58

Calculated Well Volume (1 casing volume) (gal.) 46

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 230

Measured Flow Rate (gal/min) 1

Calculated Pumping Time (length of time in minutes) 230

Actual Pumping Time (length of time in minutes) _____

Check-back Time _____

Recovery Time (if needed) —

pH Calibration During Purging (4, 7, 10) (circle two) Actual Reading 4.01/7.01 pH

pH Calibration During Sampling (4, 7, 10) (circle two) Actual Reading 4.01/7.01 pH _____ Date

Purge Start Time	9:15	Purge Stop Time	1345
Purge Date	7-26-17	Total Gallons Purged	140
Purge Method	WW		

	Well Volume Units	Initial	1	2	3 Sample	4	5
Volume Purged	gal.	—	46	92	140		
Time	-	0915	1180	12:40	13:45		
Temperature	°C	21.2	21.0	21.3	21.4		
pH	Std. units	6.73	6.82	7.09	7.09		
Conductivity	µmhos/cm	120	100	100	100		
Turbidity	NTUs	—	—	—	3.25		

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☐ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☐
VOC	Yes ☐ No ☐	Cyanide (NaOH)	Yes ☐ No ☐
Metals (HNO_3)	Yes ☐ No ☐	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☐
Rinsate Blank	Yes ☐ No ☐	Field Blank	Yes ☐ No ☐
Metals verified (<2 pH)	Yes ☐ No ☐	(10% of samples verified per SAP)	

Field Blank @ 1355

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID UBC-049 Sample Time 1520

Field Personnel NNR Sample Date 7-26-17

Weather Conditions Cloudy Air Temperature (°F) _____

Total Depth (ft.) 169 (from well log) 95.71

Depth to Static Water Surface (ft.) 93.29

Calculated Well Volume (1 casing volume) (gal.) 50

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 250

Measured Flow Rate (gal/min) 1

Calculated Pumping Time (length of time in minutes) 250

Actual Pumping Time (length of time in minutes) _____

Check-back Time ~

Recovery Time (if needed) ~

pH Calibration During Purging (4, 7, 10) (circle two) Actual Reading 4.01/7.01 pH

pH Calibration During Sampling (4, 7, 10) (circle two) Actual Reading 4.01/7.01 pH _____ Date

Purge Start Time	1100	Purge Stop Time	1520
Purge Date	7-26-17	Total Gallons Purged	150
Purge Method	NA		

	Well Volume Units	Initial	1	2	3 Sample	4	5
Volume Purged	gal.	~	50	100	150		
Time	-	1100	1235	1400	1520		
Temperature	°C	21.9	21.7	21.5	21.4		
pH	Std. units	7.[illegible]13	7.08	7.03	6.98		
Conductivity	µmhos/cm	110	100	100	100		
Turbidity	NTUs	~	~	~	1.68		

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☐ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☐
VOC	Yes ☐ No ☐	Cyanide (NaOH)	Yes ☐ No ☐
Metals (HNO_3)	Yes ☐ No ☐	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☐
Rinsate Blank	Yes ☐ No ☐	Field Blank	Yes ☐ No ☐
Metals verified (<2 pH)	Yes ☐ No ☐	(10% of samples verified per SAP)	

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID VGC-059 Sample Time 1220

Field Personnel _____ Sample Date 7-26-17

Weather Conditions _____ Air Temperature (°F) _____

Total Depth (ft.) 117 (from well log) 62.81

Depth to Static Water Surface (ft.) 54.19

Calculated Well Volume (1 casing volume) (gal.) 11

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 66

Measured Flow Rate (gal/min) 0.5

Calculated Pumping Time (length of time in minutes) _____

Actual Pumping Time (length of time in minutes) _____

Check-back Time _____

Recovery Time (if needed) _____

pH Calibration During Purging (4, 7, 10) (circle two) Actual Reading 4.01/7.01 pH

pH Calibration During Sampling (4, 7, 10) (circle two) Actual Reading 4.01/7.01 pH _____ Date

Purge Start Time	1025	Purge Stop Time	1220
Purge Date	7-26-17	Total Gallons Purged	33
Purge Method	LV		

	Well Volume Units	Initial	1	2	3 Samp/2	4	5
Volume Purged	gal.	—	11	22	33		
Time	-	1025	1115	1150	1228		
Temperature	°C	23.9	21.4	21.5	21.6		
pH	Std. units	5.98	6.91	6.89	6.88		
Conductivity	µmhos/cm	100	100	100	100		
Turbidity	NTUs	—	—	—	2.93		

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☐ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☐
VOC	Yes ☐ No ☐	Cyanide (NaOH)	Yes ☐ No ☐
Metals (HNO_3)	Yes ☐ No ☐	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☐
Rinsate Blank	Yes ☐ No ☐	Field Blank	Yes ☐ No ☐
Metals verified (<2 pH)	Yes ☐ No ☐	(10% of samples verified per SAP)	

SHEALY ENVIRONMENTAL SERVICES, INC.

Report of Analysis

Smith Gardner, Inc.
14 North Boylan Avenue
Raleigh, NC 27603
Attention: Kevin Anderson

Project Name: Pinewood LF GW (Detection Monitoring)

Lot Number:**SG27053**

Date Completed:08/11/2017

08/11/2017 11:12 AM
Approved and released by:
Project Manager: Kelly M. Nance

The electronic signature above is the equivalent of a handwritten signature.

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Case Narrative
Smith Gardner, Inc.
Lot Number: SG27053

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

Sample Summary
Smith Gardner, Inc.
Lot Number: SG27053

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	MW144T	Aqueous	07/27/2017 1430	07/27/2017
002	UBC057	Aqueous	07/27/2017 1340	07/27/2017
003	UBC058	Aqueous	07/27/2017 1350	07/27/2017
004	UBC060	Aqueous	07/27/2017 1430	07/27/2017
005	UBC028AR	Aqueous	07/27/2017 1440	07/27/2017
006	UBC025	Aqueous	07/27/2017 1250	07/27/2017
007	UBC027	Aqueous	07/27/2017 1410	07/27/2017
008	UBC061	Aqueous	07/27/2017 1210	07/27/2017
009	UBC063	Aqueous	07/27/2017 1420	07/27/2017
010	FIELD BLANK	Aqueous	07/27/2017 1255	07/27/2017
011	TRIP BLANK	Aqueous	07/27/2017	07/27/2017

(11 samples)

Detection Summary

Smith Gardner, Inc.

Lot Number: SG27053

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	MW144T	Aqueous	Chloride	300.0	2.1		mg/L	7
001	MW144T	Aqueous	TDS	SM 2540C-	130		mg/L	7
001	MW144T	Aqueous	Barium	6010D	0.21		mg/L	10
002	UBC057	Aqueous	Chloride	300.0	2.5		mg/L	12
002	UBC057	Aqueous	TDS	SM 2540C-	130		mg/L	12
002	UBC057	Aqueous	Barium	6010D	0.094		mg/L	15
003	UBC058	Aqueous	Chloride	300.0	2.6		mg/L	17
003	UBC058	Aqueous	TDS	SM 2540C-	110		mg/L	17
003	UBC058	Aqueous	Barium	6010D	0.073		mg/L	20
004	UBC060	Aqueous	Chloride	300.0	2.3		mg/L	22
004	UBC060	Aqueous	TDS	SM 2540C-	100		mg/L	22
004	UBC060	Aqueous	Barium	6010D	0.086		mg/L	25
005	UBC028AR	Aqueous	Chloride	300.0	3.1		mg/L	27
005	UBC028AR	Aqueous	TDS	SM 2540C-	160		mg/L	27
005	UBC028AR	Aqueous	Barium	6010D	0.040		mg/L	30
006	UBC025	Aqueous	Chloride	300.0	2.9		mg/L	32
006	UBC025	Aqueous	TDS	SM 2540C-	130		mg/L	32
006	UBC025	Aqueous	Barium	6010D	0.089		mg/L	35
007	UBC027	Aqueous	Chloride	300.0	2.8		mg/L	37
007	UBC027	Aqueous	TDS	SM 2540C-	97		mg/L	37
007	UBC027	Aqueous	Barium	6010D	0.085		mg/L	40
008	UBC061	Aqueous	Chloride	300.0	2.8		mg/L	42
008	UBC061	Aqueous	TDS	SM 2540C-	120		mg/L	42
008	UBC061	Aqueous	Barium	6010D	0.071		mg/L	45
009	UBC063	Aqueous	Chloride	300.0	2.8		mg/L	47
009	UBC063	Aqueous	TDS	SM 2540C-	86		mg/L	47
009	UBC063	Aqueous	Barium	6010D	0.089		mg/L	50

(27 detections)

Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SG27053-001
Description: MW144T
Matrix: Aqueous
Date Sampled: 07/27/2017 1430
Date Received: 07/27/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	07/27/2017 1430	CAE		
1		(Specific Con) 120.1	1	07/27/2017 1430	CAE		
1		(Temperature) SM 2550B-2010	1	07/27/2017 1430	CAE		
1		(Turbidity -) 180.1	1	07/27/2017 1430	CAE		
1		(Chloride) 300.0	1	08/08/2017 2300	KWP		48689
1		(TDS) SM 2540C-2011	1	08/01/2017 1648	AJG		48039

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	6.97			su	1
Specific Conductance - Field		120.1	110		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	22.2			° C	1
Turbidity - Field		180.1	11		1.0	NTU	1
Chloride		300.0	2.1		2.0	mg/L	1
TDS		SM 2540C-20	130		10	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SG27053-001
Description: MW144T
Matrix: Aqueous
Date Sampled: 07/27/2017 1430
Date Received: 07/27/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	07/31/2017 1539	JM1		47936

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		94	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG27053-001
Description: MW144T
Matrix: Aqueous
Date Sampled: 07/27/2017 1430
Date Received: 07/27/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/29/2017 0201	ECP		47853

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		106	70-130
Bromofluorobenzene		100	70-130
Toluene-d8		103	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
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E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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ICP-AES Metals

Client: Smith Gardner, Inc.
Laboratory ID: SG27053-001
Description: MW144T
Matrix: Aqueous
Date Sampled: 07/27/2017 1430
Date Received: 07/27/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010D	1	08/09/2017 1944	CJZ	07/29/2017 1120	47867

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	7440-39-3	6010D	0.21		0.025	mg/L	1
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	ND		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	1
Nickel	7440-02-0	6010D	ND		0.040	mg/L	1
Zinc	7440-66-6	6010D	ND		0.020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
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B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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CVAA

Client: Smith Gardner, Inc.
Laboratory ID: SG27053-001
Description: MW144T
Matrix: Aqueous
Date Sampled: 07/27/2017 1430
Date Received: 07/27/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	07/28/2017 1504	COH	07/28/2017 1159	47776

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury	7439-97-6	7470A	ND		0.00020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
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Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SG27053-002
Description: UBC057
Matrix: Aqueous
Date Sampled: 07/27/2017 1340
Date Received: 07/27/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	07/27/2017 1340	CAE		
1		(Specific Con) 120.1	1	07/27/2017 1340	CAE		
1		(Temperature) SM 2550B-2010	1	07/27/2017 1340	CAE		
1		(Turbidity -) 180.1	1	07/27/2017 1340	CAE		
1		(Chloride) 300.0	1	08/08/2017 2324	KWP		48689
1		(TDS) SM 2540C-2011	1	08/01/2017 1648	AJG		48039

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	7.08			su	1
Specific Conductance - Field		120.1	100		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	22.0			° C	1
Turbidity - Field		180.1	14		1.0	NTU	1
Chloride		300.0	2.5		2.0	mg/L	1
TDS		SM 2540C-20	130		10	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SG27053-002
Description: UBC057
Matrix: Aqueous
Date Sampled: 07/27/2017 1340
Date Received: 07/27/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	07/31/2017 1603	JM1		47936

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		92	70-130

LOQ = Limit of Quantitation
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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG27053-002
Description: UBC057
Matrix: Aqueous
Date Sampled: 07/27/2017 1340
Date Received: 07/27/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/29/2017 0224	ECP		47853

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		104	70-130
Bromofluorobenzene		101	70-130
Toluene-d8		103	70-130

LOQ = Limit of Quantitation
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ICP-AES Metals

Client: Smith Gardner, Inc.
Laboratory ID: SG27053-002
Description: UBC057
Matrix: Aqueous
Date Sampled: 07/27/2017 1340
Date Received: 07/27/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010D	1	08/09/2017 2016	CJZ	07/29/2017 1120	47867

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	7440-39-3	6010D	0.094		0.025	mg/L	1
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	ND		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	1
Nickel	7440-02-0	6010D	ND		0.040	mg/L	1
Zinc	7440-66-6	6010D	ND		0.020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
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CVAA

Client: Smith Gardner, Inc.
Laboratory ID: SG27053-002
Description: UBC057
Matrix: Aqueous
Date Sampled: 07/27/2017 1340
Date Received: 07/27/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	07/28/2017 1506	COH	07/28/2017 1159	47776

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury	7439-97-6	7470A	ND		0.00020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SG27053-003
Description: UBC058
Matrix: Aqueous
Date Sampled: 07/27/2017 1350
Date Received: 07/27/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	07/27/2017 1350	CAE		
1		(Specific Con) 120.1	1	07/27/2017 1350	CAE		
1		(Temperature) SM 2550B-2010	1	07/27/2017 1350	CAE		
1		(Turbidity -) 180.1	1	07/27/2017 1350	CAE		
1		(Chloride) 300.0	1	08/08/2017 2348	KWP		48689
1		(TDS) SM 2540C-2011	1	08/01/2017 1648	AJG		48039

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	7.06			su	1
Specific Conductance - Field		120.1	110		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	20.9			° C	1
Turbidity - Field		180.1	3.0		1.0	NTU	1
Chloride		300.0	2.6		2.0	mg/L	1
TDS		SM 2540C-20	110		10	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SG27053-003
Description: UBC058
Matrix: Aqueous
Date Sampled: 07/27/2017 1350
Date Received: 07/27/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	07/31/2017 1628	JM1		47936

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		92	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG27053-003
Description: UBC058
Matrix: Aqueous
Date Sampled: 07/27/2017 1350
Date Received: 07/27/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/29/2017 0247	ECP		47853

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		105	70-130
Bromofluorobenzene		100	70-130
Toluene-d8		101	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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ICP-AES Metals

Client: Smith Gardner, Inc.
Laboratory ID: SG27053-003
Description: UBC058
Matrix: Aqueous
Date Sampled: 07/27/2017 1350
Date Received: 07/27/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010D	1	08/09/2017 2020	CJZ	07/29/2017 1120	47867

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	7440-39-3	6010D	0.073		0.025	mg/L	1
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	ND		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	1
Nickel	7440-02-0	6010D	ND		0.040	mg/L	1
Zinc	7440-66-6	6010D	ND		0.020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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CVAA

Client: Smith Gardner, Inc.
Laboratory ID: SG27053-003
Description: UBC058
Matrix: Aqueous
Date Sampled: 07/27/2017 1350
Date Received: 07/27/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	07/28/2017 1509	COH	07/28/2017 1159	47776

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury	7439-97-6	7470A	ND		0.00020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SG27053-004
Description: UBC060
Matrix: Aqueous
Date Sampled: 07/27/2017 1430
Date Received: 07/27/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	07/27/2017 1430	CAE		
1		(Specific Con) 120.1	1	07/27/2017 1430	CAE		
1		(Temperature) SM 2550B-2010	1	07/27/2017 1430	CAE		
1		(Chloride) 300.0	1	08/09/2017 0012	KWP		48689
1		(TDS) SM 2540C-2011	1	08/01/2017 1648	AJG		48039

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	6.92			su	1
Specific Conductance - Field		120.1	155		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	21.6			° C	1
Chloride		300.0	2.3		2.0	mg/L	1
TDS		SM 2540C-20	100		10	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SG27053-004
Description: UBC060
Matrix: Aqueous
Date Sampled: 07/27/2017 1430
Date Received: 07/27/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	07/31/2017 1653	JM1		47936

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		96	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG27053-004
Description: UBC060
Matrix: Aqueous
Date Sampled: 07/27/2017 1430
Date Received: 07/27/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/29/2017 0311	ECP		47853

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		105	70-130
Bromofluorobenzene		102	70-130
Toluene-d8		102	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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ICP-AES Metals

Client: Smith Gardner, Inc.
Laboratory ID: SG27053-004
Description: UBC060
Matrix: Aqueous
Date Sampled: 07/27/2017 1430
Date Received: 07/27/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010D	1	08/09/2017 2025	CJZ	07/29/2017 1120	47867

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	7440-39-3	6010D	0.086		0.025	mg/L	1
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	ND		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	1
Nickel	7440-02-0	6010D	ND		0.040	mg/L	1
Zinc	7440-66-6	6010D	ND		0.020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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CVAA

Client: Smith Gardner, Inc.
Laboratory ID: SG27053-004
Description: UBC060
Matrix: Aqueous
Date Sampled: 07/27/2017 1430
Date Received: 07/27/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	07/28/2017 1511	COH	07/28/2017 1159	47776

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury	7439-97-6	7470A	ND		0.00020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SG27053-005
Description: UBC028AR
Matrix: Aqueous
Date Sampled: 07/27/2017 1440
Date Received: 07/27/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	07/27/2017 1440	CAE		
1		(Specific Con) 120.1	1	07/27/2017 1440	CAE		
1		(Temperature) SM 2550B-2010	1	07/27/2017 1440	CAE		
1		(Turbidity -) 180.1	1	07/27/2017 1440	CAE		
1		(Chloride) 300.0	1	08/09/2017 0036	KWP		48689
1		(TDS) SM 2540C-2011	1	08/01/2017 1648	AJG		48039

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	7.03			su	1
Specific Conductance - Field		120.1	120		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	21.1			° C	1
Turbidity - Field		180.1	2.4		1.0	NTU	1
Chloride		300.0	3.1		2.0	mg/L	1
TDS		SM 2540C-20	160		10	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SG27053-005
Description: UBC028AR
Matrix: Aqueous
Date Sampled: 07/27/2017 1440
Date Received: 07/27/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	07/31/2017 1718	JM1		47936

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		93	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG27053-005
Description: UBC028AR
Matrix: Aqueous
Date Sampled: 07/27/2017 1440
Date Received: 07/27/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/29/2017 1535	TML		47870

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		113	70-130
Bromofluorobenzene		114	70-130
Toluene-d8		115	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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ICP-AES Metals

Client: Smith Gardner, Inc.
Laboratory ID: SG27053-005
Description: UBC028AR
Matrix: Aqueous
Date Sampled: 07/27/2017 1440
Date Received: 07/27/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010D	1	08/09/2017 2030	CJZ	07/29/2017 1120	47867

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	7440-39-3	6010D	0.040		0.025	mg/L	1
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	ND		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	1
Nickel	7440-02-0	6010D	ND		0.040	mg/L	1
Zinc	7440-66-6	6010D	ND		0.020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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CVAA

Client: Smith Gardner, Inc.
Laboratory ID: SG27053-005
Description: UBC028AR
Matrix: Aqueous
Date Sampled: 07/27/2017 1440
Date Received: 07/27/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	07/28/2017 1513	COH	07/28/2017 1159	47776

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury	7439-97-6	7470A	ND		0.00020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SG27053-006
Description: UBC025
Matrix: Aqueous
Date Sampled: 07/27/2017 1250
Date Received: 07/27/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	07/27/2017 1250	CAE		
1		(Specific Con) 120.1	1	07/27/2017 1250	CAE		
1		(Temperature) SM 2550B-2010	1	07/27/2017 1250	CAE		
1		(Turbidity -) 180.1	1	07/27/2017 1250	CAE		
1		(Chloride) 300.0	1	08/09/2017 0100	KWP		48689
1		(TDS) SM 2540C-2011	1	08/01/2017 1648	AJG		48039

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	7.23			su	1
Specific Conductance - Field		120.1	110		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	21.5			° C	1
Turbidity - Field		180.1	2.0		1.0	NTU	1
Chloride		300.0	2.9		2.0	mg/L	1
TDS		SM 2540C-20	130		10	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SG27053-006
Description: UBC025
Matrix: Aqueous
Date Sampled: 07/27/2017 1250
Date Received: 07/27/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	07/31/2017 1742	JM1		47936

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		92	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG27053-006
Description: UBC025
Matrix: Aqueous
Date Sampled: 07/27/2017 1250
Date Received: 07/27/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/29/2017 1558	TML		47870

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		113	70-130
Bromofluorobenzene		113	70-130
Toluene-d8		105	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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ICP-AES Metals

Client: Smith Gardner, Inc.
Laboratory ID: SG27053-006
Description: UBC025
Matrix: Aqueous
Date Sampled: 07/27/2017 1250
Date Received: 07/27/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010D	1	08/09/2017 2034	CJZ	07/29/2017 1120	47867

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	7440-39-3	6010D	0.089		0.025	mg/L	1
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	ND		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	1
Nickel	7440-02-0	6010D	ND		0.040	mg/L	1
Zinc	7440-66-6	6010D	ND		0.020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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CVAA

Client: Smith Gardner, Inc.
Laboratory ID: SG27053-006
Description: UBC025
Matrix: Aqueous
Date Sampled: 07/27/2017 1250
Date Received: 07/27/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	07/28/2017 1515	COH	07/28/2017 1159	47776

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury	7439-97-6	7470A	ND		0.00020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SG27053-007
Description: UBC027
Matrix: Aqueous
Date Sampled: 07/27/2017 1410
Date Received: 07/27/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	07/27/2017 1410	CAE		
1		(Specific Con) 120.1	1	07/27/2017 1410	CAE		
1		(Temperature) SM 2550B-2010	1	07/27/2017 1410	CAE		
1		(Turbidity -) 180.1	1	07/27/2017 1410	CAE		
1		(Chloride) 300.0	1	08/09/2017 0124	KWP		48689
1		(TDS) SM 2540C-2011	1	08/01/2017 1648	AJG		48039

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	7.28			su	1
Specific Conductance - Field		120.1	100		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	21.8			° C	1
Turbidity - Field		180.1	1.7		1.0	NTU	1
Chloride		300.0	2.8		2.0	mg/L	1
TDS		SM 2540C-20	97		10	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SG27053-007
Description: UBC027
Matrix: Aqueous
Date Sampled: 07/27/2017 1410
Date Received: 07/27/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	07/31/2017 1806	JM1		47936

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		96	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG27053-007
Description: UBC027
Matrix: Aqueous
Date Sampled: 07/27/2017 1410
Date Received: 07/27/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/29/2017 1621	TML		47870

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		110	70-130
Bromofluorobenzene		114	70-130
Toluene-d8		117	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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ICP-AES Metals

Client: Smith Gardner, Inc.
Laboratory ID: SG27053-007
Description: UBC027
Matrix: Aqueous
Date Sampled: 07/27/2017 1410
Date Received: 07/27/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010D	1	08/09/2017 2039	CJZ	07/29/2017 1120	47867

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	7440-39-3	6010D	0.085		0.025	mg/L	1
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	ND		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	1
Nickel	7440-02-0	6010D	ND		0.040	mg/L	1
Zinc	7440-66-6	6010D	ND		0.020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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CVAA

Client: Smith Gardner, Inc.
Laboratory ID: SG27053-007
Description: UBC027
Matrix: Aqueous
Date Sampled: 07/27/2017 1410
Date Received: 07/27/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	07/28/2017 1517	COH	07/28/2017 1159	47776

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury	7439-97-6	7470A	ND		0.00020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SG27053-008
Description: UBC061
Matrix: Aqueous
Date Sampled: 07/27/2017 1210
Date Received: 07/27/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	07/27/2017 1210	CAE		
1		(Specific Con) 120.1	1	07/27/2017 1210	CAE		
1		(Temperature) SM 2550B-2010	1	07/27/2017 1210	CAE		
1		(Turbidity -) 180.1	1	07/27/2017 1210	CAE		
1		(Chloride) 300.0	1	08/09/2017 0148	KWP		48689
1		(TDS) SM 2540C-2011	1	08/01/2017 1648	AJG		48039

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	7.14			su	1
Specific Conductance - Field		120.1	100		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	21.8			° C	1
Turbidity - Field		180.1	4.6		1.0	NTU	1
Chloride		300.0	2.8		2.0	mg/L	1
TDS		SM 2540C-20	120		10	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SG27053-008
Description: UBC061
Matrix: Aqueous
Date Sampled: 07/27/2017 1210
Date Received: 07/27/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	07/31/2017 1830	JM1		47936

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		97	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG27053-008
Description: UBC061
Matrix: Aqueous
Date Sampled: 07/27/2017 1210
Date Received: 07/27/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/29/2017 1644	TML		47870

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		110	70-130
Bromofluorobenzene		112	70-130
Toluene-d8		116	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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ICP-AES Metals

Client: Smith Gardner, Inc.
Laboratory ID: SG27053-008
Description: UBC061
Matrix: Aqueous
Date Sampled: 07/27/2017 1210
Date Received: 07/27/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010D	1	08/09/2017 2043	CJZ	07/29/2017 1120	47867

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	7440-39-3	6010D	0.071		0.025	mg/L	1
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	ND		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	1
Nickel	7440-02-0	6010D	ND		0.040	mg/L	1
Zinc	7440-66-6	6010D	ND		0.020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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CVAA

Client: Smith Gardner, Inc.
Laboratory ID: SG27053-008
Description: UBC061
Matrix: Aqueous
Date Sampled: 07/27/2017 1210
Date Received: 07/27/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	07/28/2017 1519	COH	07/28/2017 1159	47776

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury	7439-97-6	7470A	ND		0.00020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SG27053-009
Description: UBC063
Matrix: Aqueous
Date Sampled: 07/27/2017 1420
Date Received: 07/27/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	07/27/2017 1420	CAE		
1		(Specific Con) 120.1	1	07/27/2017 1420	CAE		
1		(Temperature) SM 2550B-2010	1	07/27/2017 1420	CAE		
1		(Turbidity -) 180.1	1	07/27/2017 1420	CAE		
1		(Chloride) 300.0	1	08/09/2017 0212	KWP		48689
1		(TDS) SM 2540C-2011	1	08/01/2017 1648	AJG		48039

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	7.21			su	1
Specific Conductance - Field		120.1	100		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	22.0			° C	1
Turbidity - Field		180.1	2.1		1.0	NTU	1
Chloride		300.0	2.8		2.0	mg/L	1
TDS		SM 2540C-20	86		10	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SG27053-009
Description: UBC063
Matrix: Aqueous
Date Sampled: 07/27/2017 1420
Date Received: 07/27/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	07/31/2017 1854	JM1		47936

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		98	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG27053-009
Description: UBC063
Matrix: Aqueous
Date Sampled: 07/27/2017 1420
Date Received: 07/27/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/29/2017 1707	TML		47870

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		119	70-130
Bromofluorobenzene		109	70-130
Toluene-d8		112	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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ICP-AES Metals

Client: Smith Gardner, Inc.
Laboratory ID: SG27053-009
Description: UBC063
Matrix: Aqueous
Date Sampled: 07/27/2017 1420
Date Received: 07/27/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010D	1	08/09/2017 2048	CJZ	07/29/2017 1120	47867

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	7440-39-3	6010D	0.089		0.025	mg/L	1
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	ND		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	1
Nickel	7440-02-0	6010D	ND		0.040	mg/L	1
Zinc	7440-66-6	6010D	ND		0.020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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CVAA

Client: Smith Gardner, Inc.
Laboratory ID: SG27053-009
Description: UBC063
Matrix: Aqueous
Date Sampled: 07/27/2017 1420
Date Received: 07/27/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	07/28/2017 1526	COH	07/28/2017 1159	47776

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury	7439-97-6	7470A	ND		0.00020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG27053-010
Description: FIELD BLANK
Matrix: Aqueous
Date Sampled: 07/27/2017 1255
Date Received: 07/27/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/31/2017 1738	JM1		47949

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		93	70-130
Bromofluorobenzene		102	70-130
Toluene-d8		100	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG27053-011
Description: TRIP BLANK
Matrix: Aqueous
Date Sampled: 07/27/2017
Date Received: 07/27/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/31/2017 1047	JM1		47949

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		97	70-130
Bromofluorobenzene		104	70-130
Toluene-d8		102	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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QC Summary

Inorganic non-metals - MB

Sample ID: SQ48039-001
Batch: 48039
Analytical Method: SM 2540C-2011

Matrix: Aqueous

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
TDS	ND		1	10	mg/L	08/01/2017 1648

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - LCS

Sample ID: SQ48039-002
Batch: 48039
Analytical Method: SM 2540C-2011

Matrix: Aqueous

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
TDS	1500	1400		1	96	90-110	08/01/2017 1648

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - MB

Sample ID: SQ48689-001
Batch: 48689
Analytical Method: 300.0

Matrix: Aqueous

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
Chloride	ND		1	2.0	mg/L	08/08/2017 1811

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - LCS

Sample ID: SQ48689-002
Batch: 48689
Analytical Method: 300.0

Matrix: Aqueous

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Chloride	20	19		1	96	90-110	08/08/2017 1747

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - MB

Sample ID: SQ47853-001
Batch: 47853
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
Acrolein	ND		1	20	ug/L	07/28/2017 2137
Acrylonitrile	ND		1	20	ug/L	07/28/2017 2137
Benzene	ND		1	5.0	ug/L	07/28/2017 2137
Bromodichloromethane	ND		1	5.0	ug/L	07/28/2017 2137
Bromoform	ND		1	5.0	ug/L	07/28/2017 2137
Bromomethane (Methyl bromide)	ND		1	10	ug/L	07/28/2017 2137
Carbon tetrachloride	ND		1	5.0	ug/L	07/28/2017 2137
Chlorobenzene	ND		1	5.0	ug/L	07/28/2017 2137
Chloroethane	ND		1	10	ug/L	07/28/2017 2137
2-Chloroethylvinylether	ND		1	10	ug/L	07/28/2017 2137
Chloroform	ND		1	5.0	ug/L	07/28/2017 2137
Chloromethane (Methyl chloride)	ND		1	10	ug/L	07/28/2017 2137
Dibromochloromethane	ND		1	10	ug/L	07/28/2017 2137
1,1-Dichloroethane	ND		1	5.0	ug/L	07/28/2017 2137
1,2-Dichloroethane	ND		1	5.0	ug/L	07/28/2017 2137
1,1-Dichloroethene	ND		1	5.0	ug/L	07/28/2017 2137
cis-1,2-Dichloroethene	ND		1	5.0	ug/L	07/28/2017 2137
trans-1,2-Dichloroethene	ND		1	5.0	ug/L	07/28/2017 2137
1,2-Dichloropropane	ND		1	5.0	ug/L	07/28/2017 2137
cis-1,3-Dichloropropene	ND		1	5.0	ug/L	07/28/2017 2137
trans-1,3-Dichloropropene	ND		1	5.0	ug/L	07/28/2017 2137
Ethylbenzene	ND		1	5.0	ug/L	07/28/2017 2137
Methylene chloride	ND		1	5.0	ug/L	07/28/2017 2137
1,1,2,2-Tetrachloroethane	ND		1	5.0	ug/L	07/28/2017 2137
Tetrachloroethene	ND		1	5.0	ug/L	07/28/2017 2137
Toluene	ND		1	5.0	ug/L	07/28/2017 2137
1,1,1-Trichloroethane	ND		1	5.0	ug/L	07/28/2017 2137
1,1,2-Trichloroethane	ND		1	5.0	ug/L	07/28/2017 2137
Trichloroethene	ND		1	5.0	ug/L	07/28/2017 2137
Vinyl chloride	ND		1	2.0	ug/L	07/28/2017 2137

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		99	70-130
Bromofluorobenzene		101	70-130
Toluene-d8		101	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - LCS

Sample ID: SQ47853-002
Batch: 47853
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acrolein	500	560		1	112	60-140	07/28/2017 2037
Acrylonitrile	100	110		1	105	70-130	07/28/2017 2037
Benzene	50	53		1	106	70-130	07/28/2017 2037
Bromodichloromethane	50	52		1	104	70-130	07/28/2017 2037
Bromoform	50	41		1	82	70-130	07/28/2017 2037
Bromomethane (Methyl bromide)	50	50		1	99	70-130	07/28/2017 2037
Carbon tetrachloride	50	60		1	120	70-130	07/28/2017 2037
Chlorobenzene	50	53		1	105	70-130	07/28/2017 2037
Chloroethane	50	52		1	104	70-130	07/28/2017 2037
Chloroform	50	53		1	106	70-130	07/28/2017 2037
Chloromethane (Methyl chloride)	50	48		1	95	60-140	07/28/2017 2037
Dibromochloromethane	50	52		1	103	70-130	07/28/2017 2037
1,1-Dichloroethane	50	54		1	108	70-130	07/28/2017 2037
1,2-Dichloroethane	50	51		1	101	70-130	07/28/2017 2037
1,1-Dichloroethene	50	57		1	114	70-130	07/28/2017 2037
cis-1,2-Dichloroethene	50	53		1	107	70-130	07/28/2017 2037
trans-1,2-Dichloroethene	50	53		1	107	70-130	07/28/2017 2037
1,2-Dichloropropane	50	53		1	106	70-130	07/28/2017 2037
cis-1,3-Dichloropropene	50	53		1	106	70-130	07/28/2017 2037
trans-1,3-Dichloropropene	50	51		1	102	70-130	07/28/2017 2037
Ethylbenzene	50	54		1	109	70-130	07/28/2017 2037
Methylene chloride	50	50		1	99	70-130	07/28/2017 2037
1,1,2,2-Tetrachloroethane	50	51		1	103	70-130	07/28/2017 2037
Tetrachloroethene	50	55		1	110	70-130	07/28/2017 2037
Toluene	50	54		1	108	70-130	07/28/2017 2037
1,1,1-Trichloroethane	50	55		1	110	70-130	07/28/2017 2037
1,1,2-Trichloroethane	50	49		1	98	70-130	07/28/2017 2037
Trichloroethene	50	54		1	109	70-130	07/28/2017 2037
Vinyl chloride	50	54		1	108	70-130	07/28/2017 2037

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		98	70-130
Bromofluorobenzene		99	70-130
Toluene-d8		105	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - MB

Sample ID: SQ47870-001
Batch: 47870
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
Acrolein	ND		1	20	ug/L	07/29/2017 1355
Acrylonitrile	ND		1	20	ug/L	07/29/2017 1355
Benzene	ND		1	5.0	ug/L	07/29/2017 1355
Bromodichloromethane	ND		1	5.0	ug/L	07/29/2017 1355
Bromoform	ND		1	5.0	ug/L	07/29/2017 1355
Bromomethane (Methyl bromide)	ND		1	10	ug/L	07/29/2017 1355
Carbon tetrachloride	ND		1	5.0	ug/L	07/29/2017 1355
Chlorobenzene	ND		1	5.0	ug/L	07/29/2017 1355
Chloroethane	ND		1	10	ug/L	07/29/2017 1355
2-Chloroethylvinylether	ND		1	10	ug/L	07/29/2017 1355
Chloroform	ND		1	5.0	ug/L	07/29/2017 1355
Chloromethane (Methyl chloride)	ND		1	10	ug/L	07/29/2017 1355
Dibromochloromethane	ND		1	10	ug/L	07/29/2017 1355
1,1-Dichloroethane	ND		1	5.0	ug/L	07/29/2017 1355
1,2-Dichloroethane	ND		1	5.0	ug/L	07/29/2017 1355
1,1-Dichloroethene	ND		1	5.0	ug/L	07/29/2017 1355
cis-1,2-Dichloroethene	ND		1	5.0	ug/L	07/29/2017 1355
trans-1,2-Dichloroethene	ND		1	5.0	ug/L	07/29/2017 1355
1,2-Dichloropropane	ND		1	5.0	ug/L	07/29/2017 1355
cis-1,3-Dichloropropene	ND		1	5.0	ug/L	07/29/2017 1355
trans-1,3-Dichloropropene	ND		1	5.0	ug/L	07/29/2017 1355
Ethylbenzene	ND		1	5.0	ug/L	07/29/2017 1355
Methylene chloride	ND		1	5.0	ug/L	07/29/2017 1355
1,1,2,2-Tetrachloroethane	ND		1	5.0	ug/L	07/29/2017 1355
Tetrachloroethene	ND		1	5.0	ug/L	07/29/2017 1355
Toluene	ND		1	5.0	ug/L	07/29/2017 1355
1,1,1-Trichloroethane	ND		1	5.0	ug/L	07/29/2017 1355
1,1,2-Trichloroethane	ND		1	5.0	ug/L	07/29/2017 1355
Trichloroethene	ND		1	5.0	ug/L	07/29/2017 1355
Vinyl chloride	ND		1	2.0	ug/L	07/29/2017 1355

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		114	70-130
Bromofluorobenzene		118	70-130
Toluene-d8		119	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - LCS

Sample ID: SQ47870-002
Batch: 47870
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acrolein	500	420		1	84	60-140	07/29/2017 1303
Acrylonitrile	100	95		1	95	70-130	07/29/2017 1303
Benzene	50	49		1	97	70-130	07/29/2017 1303
Bromodichloromethane	50	51		1	103	70-130	07/29/2017 1303
Bromoform	50	50		1	99	70-130	07/29/2017 1303
Bromomethane (Methyl bromide)	50	46		1	92	70-130	07/29/2017 1303
Carbon tetrachloride	50	52		1	104	70-130	07/29/2017 1303
Chlorobenzene	50	50		1	101	70-130	07/29/2017 1303
Chloroethane	50	53		1	107	70-130	07/29/2017 1303
Chloroform	50	50		1	100	70-130	07/29/2017 1303
Chloromethane (Methyl chloride)	50	51		1	101	60-140	07/29/2017 1303
Dibromochloromethane	50	56		1	112	70-130	07/29/2017 1303
1,1-Dichloroethane	50	50		1	100	70-130	07/29/2017 1303
1,2-Dichloroethane	50	49		1	98	70-130	07/29/2017 1303
1,1-Dichloroethene	50	50		1	100	70-130	07/29/2017 1303
cis-1,2-Dichloroethene	50	48		1	95	70-130	07/29/2017 1303
trans-1,2-Dichloroethene	50	49		1	97	70-130	07/29/2017 1303
1,2-Dichloropropane	50	51		1	103	70-130	07/29/2017 1303
cis-1,3-Dichloropropene	50	54		1	109	70-130	07/29/2017 1303
trans-1,3-Dichloropropene	50	58		1	116	70-130	07/29/2017 1303
Ethylbenzene	50	50		1	99	70-130	07/29/2017 1303
Methylene chloride	50	42		1	85	70-130	07/29/2017 1303
1,1,2,2-Tetrachloroethane	50	50		1	101	70-130	07/29/2017 1303
Tetrachloroethene	50	55		1	110	70-130	07/29/2017 1303
Toluene	50	57		1	114	70-130	07/29/2017 1303
1,1,1-Trichloroethane	50	52		1	103	70-130	07/29/2017 1303
1,1,2-Trichloroethane	50	53		1	105	70-130	07/29/2017 1303
Trichloroethene	50	50		1	99	70-130	07/29/2017 1303
Vinyl chloride	50	49		1	97	70-130	07/29/2017 1303

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		103	70-130
Bromofluorobenzene		110	70-130
Toluene-d8		123	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution) - MB

Sample ID: SQ47936-001
Batch: 47936
Analytical Method: 8260B (SIM iso.)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
1,4-Dioxane	ND		1	3.0	ug/L	07/31/2017 1034

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		105	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution) - LCS

Sample ID: SQ47936-002
Batch: 47936
Analytical Method: 8260B (SIM iso.)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,4-Dioxane	50	49		1	99	70-130	07/31/2017 0928

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		106	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution) - LCSD

Sample ID: SQ47936-003
Batch: 47936
Analytical Method: 8260B (SIM iso.)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
1,4-Dioxane	50	49		1	99	0.11	70-130	20	07/31/2017 0952

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		106	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - MB

Sample ID: SQ47949-001
Batch: 47949
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
Acrolein	ND		1	20	ug/L	07/31/2017 0948
Acrylonitrile	ND		1	20	ug/L	07/31/2017 0948
Benzene	ND		1	5.0	ug/L	07/31/2017 0948
Bromodichloromethane	ND		1	5.0	ug/L	07/31/2017 0948
Bromoform	ND		1	5.0	ug/L	07/31/2017 0948
Bromomethane (Methyl bromide)	ND		1	10	ug/L	07/31/2017 0948
Carbon tetrachloride	ND		1	5.0	ug/L	07/31/2017 0948
Chlorobenzene	ND		1	5.0	ug/L	07/31/2017 0948
Chloroethane	ND		1	10	ug/L	07/31/2017 0948
2-Chloroethylvinylether	ND		1	10	ug/L	07/31/2017 0948
Chloroform	ND		1	5.0	ug/L	07/31/2017 0948
Chloromethane (Methyl chloride)	ND		1	10	ug/L	07/31/2017 0948
Dibromochloromethane	ND		1	10	ug/L	07/31/2017 0948
1,1-Dichloroethane	ND		1	5.0	ug/L	07/31/2017 0948
1,2-Dichloroethane	ND		1	5.0	ug/L	07/31/2017 0948
1,1-Dichloroethene	ND		1	5.0	ug/L	07/31/2017 0948
cis-1,2-Dichloroethene	ND		1	5.0	ug/L	07/31/2017 0948
trans-1,2-Dichloroethene	ND		1	5.0	ug/L	07/31/2017 0948
1,2-Dichloropropane	ND		1	5.0	ug/L	07/31/2017 0948
cis-1,3-Dichloropropene	ND		1	5.0	ug/L	07/31/2017 0948
trans-1,3-Dichloropropene	ND		1	5.0	ug/L	07/31/2017 0948
Ethylbenzene	ND		1	5.0	ug/L	07/31/2017 0948
Methylene chloride	ND		1	5.0	ug/L	07/31/2017 0948
1,1,2,2-Tetrachloroethane	ND		1	5.0	ug/L	07/31/2017 0948
Tetrachloroethene	ND		1	5.0	ug/L	07/31/2017 0948
Toluene	ND		1	5.0	ug/L	07/31/2017 0948
1,1,1-Trichloroethane	ND		1	5.0	ug/L	07/31/2017 0948
1,1,2-Trichloroethane	ND		1	5.0	ug/L	07/31/2017 0948
Trichloroethene	ND		1	5.0	ug/L	07/31/2017 0948
Vinyl chloride	ND		1	2.0	ug/L	07/31/2017 0948

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		95	70-130
Bromofluorobenzene		102	70-130
Toluene-d8		102	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - LCS

Sample ID: SQ47949-002
Batch: 47949
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acrolein	500	570		1	113	60-140	07/31/2017 0850
Acrylonitrile	100	90		1	90	70-130	07/31/2017 0850
Benzene	50	45		1	90	70-130	07/31/2017 0850
Bromodichloromethane	50	44		1	87	70-130	07/31/2017 0850
Bromoform	50	46		1	92	70-130	07/31/2017 0850
Bromomethane (Methyl bromide)	50	54		1	108	70-130	07/31/2017 0850
Carbon tetrachloride	50	45		1	89	70-130	07/31/2017 0850
Chlorobenzene	50	46		1	92	70-130	07/31/2017 0850
Chloroethane	50	57		1	113	70-130	07/31/2017 0850
Chloroform	50	45		1	89	70-130	07/31/2017 0850
Chloromethane (Methyl chloride)	50	44		1	87	60-140	07/31/2017 0850
Dibromochloromethane	50	46		1	92	70-130	07/31/2017 0850
1,1-Dichloroethane	50	43		1	86	70-130	07/31/2017 0850
1,2-Dichloroethane	50	45		1	90	70-130	07/31/2017 0850
1,1-Dichloroethene	50	45		1	90	70-130	07/31/2017 0850
cis-1,2-Dichloroethene	50	44		1	87	70-130	07/31/2017 0850
trans-1,2-Dichloroethene	50	44		1	89	70-130	07/31/2017 0850
1,2-Dichloropropane	50	44		1	88	70-130	07/31/2017 0850
cis-1,3-Dichloropropene	50	46		1	92	70-130	07/31/2017 0850
trans-1,3-Dichloropropene	50	44		1	89	70-130	07/31/2017 0850
Ethylbenzene	50	47		1	94	70-130	07/31/2017 0850
Methylene chloride	50	46		1	91	70-130	07/31/2017 0850
1,1,2,2-Tetrachloroethane	50	47		1	93	70-130	07/31/2017 0850
Tetrachloroethene	50	48		1	96	70-130	07/31/2017 0850
Toluene	50	46		1	91	70-130	07/31/2017 0850
1,1,1-Trichloroethane	50	48		1	96	70-130	07/31/2017 0850
1,1,2-Trichloroethane	50	43		1	85	70-130	07/31/2017 0850
Trichloroethene	50	44		1	87	70-130	07/31/2017 0850
Vinyl chloride	50	47		1	94	70-130	07/31/2017 0850

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		94	70-130
Bromofluorobenzene		100	70-130
Toluene-d8		101	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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ICP-AES Metals - MB

Sample ID: SQ47867-001
Batch: 47867
Analytical Method: 6010D

Matrix: Aqueous
Prep Method: 3005A
Prep Date: 07/29/2017 1120

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
Arsenic	ND		1	0.015	mg/L	07/30/2017 0753
Barium	ND		1	0.025	mg/L	07/30/2017 0753
Cadmium	ND		1	0.0050	mg/L	07/30/2017 0753
Chromium	ND		1	0.010	mg/L	07/30/2017 0753
Lead	ND		1	0.010	mg/L	07/30/2017 0753
Nickel	ND		1	0.040	mg/L	07/30/2017 0753
Zinc	ND		1	0.020	mg/L	07/30/2017 0753

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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ICP-AES Metals - LCS

Sample ID: SQ47867-002
Batch: 47867
Analytical Method: 6010D

Matrix: Aqueous
Prep Method: 3005A
Prep Date: 07/29/2017 1120

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Arsenic	0.40	0.43		1	108	80-120	07/30/2017 0758
Barium	2.0	2.1		1	105	80-120	07/30/2017 0758
Cadmium	0.40	0.42		1	104	80-120	07/30/2017 0758
Chromium	2.0	1.9		1	93	80-120	07/30/2017 0758
Lead	0.40	0.41		1	103	80-120	07/30/2017 0758
Nickel	2.0	2.1		1	104	80-120	07/30/2017 0758
Zinc	2.0	2.4		1	118	80-120	07/30/2017 0758

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

ICP-AES Metals - MS

Sample ID: SG27053-001MS
Batch: 47867
Analytical Method: 6010D

Matrix: Aqueous
Prep Method: 3005A
Prep Date: 07/29/2017 1120

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Arsenic	ND	0.40	0.43		1	108	75-125	08/09/2017 1948
Barium	0.21	2.0	2.3		1	103	75-125	08/09/2017 1948
Cadmium	ND	0.40	0.43		1	106	75-125	08/09/2017 1948
Chromium	ND	2.0	2.2		1	108	75-125	08/09/2017 1948
Lead	ND	0.40	0.42		1	106	75-125	08/09/2017 1948
Nickel	ND	2.0	2.2		1	108	75-125	08/09/2017 1948
Zinc	ND	2.0	2.1		1	107	75-125	08/09/2017 1948

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.
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ICP-AES Metals - MSD

Sample ID: SG27053-001MD
Batch: 47867
Analytical Method: 6010D

Matrix: Aqueous
Prep Method: 3005A
Prep Date: 07/29/2017 1120

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Arsenic	ND	0.40	0.42		1	106	1.6	75-125	20	08/09/2017 1953
Barium	0.21	2.0	2.3		1	104	0.92	75-125	20	08/09/2017 1953
Cadmium	ND	0.40	0.43		1	106	0.024	75-125	20	08/09/2017 1953
Chromium	ND	2.0	2.2		1	111	2.5	75-125	20	08/09/2017 1953
Lead	ND	0.40	0.42		1	106	0.047	75-125	20	08/09/2017 1953
Nickel	ND	2.0	2.2		1	109	0.33	75-125	20	08/09/2017 1953
Zinc	ND	2.0	2.1		1	107	0.094	75-125	20	08/09/2017 1953

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

CVAA - MB

Sample ID: SQ47776-001
Batch: 47776
Analytical Method: 7470A

Matrix: Aqueous
Prep Method: 7470A
Prep Date: 07/28/2017 1159

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
Mercury	ND		1	0.00020	mg/L	07/28/2017 1433

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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CVAA - LCS

Sample ID: SQ47776-002
Batch: 47776
Analytical Method: 7470A

Matrix: Aqueous
Prep Method: 7470A
Prep Date: 07/28/2017 1159

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Mercury	0.0020	0.0023		1	113	80-120	07/28/2017 1436

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Chain of Custody

and

Miscellaneous Documents

Shealy Environmental Services, Inc.
106 Vantage Point Drive
West Columbia, South Carolina 29172
Telephone No. (803) 791-9700 Fax No. (803) 791-9111
www.shealylab.com

Chain of Custody Record

Number

Client	Report to Contact	Telephone No. / Fax No. / Email	Quote No.
Smith Gardner	Kevin Anderson	919-828-0577	15127
Address: 14 North Bolyan Ave	Sampler's Signature: x	Waybill No.	Page 1 of 1
City: Raleigh / State: NC / Zip Code: 27603	Printed Name: WESLEY WHELESS		
Project Name: Pinewood Detection Monitoring (GW)			

Analysis (Attach list if more space is needed)

SG27053

Project Number	P.O Number		G=Grab C=Composite	Matrix: Aqueous	Solid	Non-Aq.	No. of Containers by Preservation Type: Unpres.	H2SO4	HNO3	HCl	NaOH	5035 kit	NaOH+Zn	VOC	1,4-Dioxane SIM	Metals + Hg - As,Ba,Cd,Cr,Pb,Ni,Z	Chloride/TDS							Rema
Sample ID / Description (Containers for each sample may be combined on one line)	Date	Time																						
MW-144T	7/27/17	1430	G	X			2		1	6				✓	✓	✓	✓							
UBC-057		1340					2		1	6				✓	✓	✓	✓							
UBC-058		1350					2		1	6				✓	✓	✓	✓							
UBC-060		1430					2		1	6				✓	✓	✓	✓							
UBC-028AR		1440					2		1	6				✓	✓	✓	✓							
UBC-025		1250					2		1	6				✓	✓	✓	✓							
UBC-027		1410					2		1	6				✓	✓	✓	✓							
UBC-061		1210					2		1	6				✓	✓	✓	✓							
UBC-063		1420					2		1	6				✓	✓	✓	✓							
FIELD BLANK		1255					2		1	6				✓										* ALSO RUN TRIP BLANK VOC ONLY

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown

Sample Disposal
☐ Return to Client ☒ Disposal by Lab

Note: All samples are retained for six weeks from receipt unless other arrangements are made

Turn Around Time Required (Prior lab approval required for expedited TAT)
☒ Standard ☐ Rush (Please Specify)

QC Requirements (Please Specify)

	Date	Time		Date	Time
1. Relinquished by	7-27-17	1510	1. Received by	7/27/17	1510
2. Relinquished by	Date	Time	2. Received by	Date	Time
3. Relinquished by	7/27/17	1620	3. Laboratory Received by	7/27/17	1620
Comments			LAB USE ONLY Received on Ice (Check) ☐ Y ☐ N ☐ Ice Pack	Receipt Temp.	4.4 °C

Document Number: F-AD-104 Effective Date 08-10-10

SHEALY ENVIRONMENTAL SERVICES, INC.

Shealy Environmental Services, Inc.
Document Number: ME0018C-08

Page 1 of 1
Effective Date: 03/07/2017
Expiry Date: 03/07/2022

Sample Receipt Checklist (SRC)

Client: Smith Gardner Cooler Inspected by/date: EC 7/22/17 Lot #: SG27053

Means of receipt: ☐ SESI ☐ Client ☐ UPS ☐ FedEx ☐ Other _____

Yes ☐	No ☑		1. Were custody seals present on the cooler?
Yes ☐	No ☐	NA ☐	2. If custody seals were present, were they intact and unbroken?

pH strip ID: 17-1172 Cl strip ID: _____

Cooler ID/Original temperature upon receipt/Derived (corrected) temperature upon receipt:

14 / 4.1 °C ___ / ___ / ___ °C ___ / ___ / ___ °C ___ / ___ / ___ °C

Method: ☐ Temperature Blank ☐ Against Bottles IR Gun ID: 6 IR Gun Correction Factor: 0 °C

Method of coolant: ☑ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ None

Yes ☐	No ☐	NA ☑	3. If temperature of any cooler exceeded 6.0°C, was Project Manager Notified? PM was Notified by: phone / email / face-to-face (circle one).
Yes ☐	No ☐	NA ☑	4. Is the commercial courier's packing slip attached to this form?
Yes ☑	No ☐		5. Were proper custody procedures (relinquished/received) followed?
Yes ☑	No ☐		6. Were sample IDs listed on the COC?
Yes ☑	No ☐		7. Were sample IDs listed on all sample containers?
Yes ☑	No ☐		8. Was collection date & time listed on the COC?
Yes ☑	No ☐		9. Was collection date & time listed on all sample containers?
Yes ☑	No ☐		10. Did all container label information (ID, date, time) agree with the COC?
Yes ☑	No ☐		11. Were tests to be performed listed on the COC?
Yes ☑	No ☐		12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)?
Yes ☑	No ☐		13. Was adequate sample volume available?
Yes ☑	No ☐		14. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes ☑	No ☐		15. Were any samples containers missing/excess (circle one) samples Not listed on COC? TB
Yes ☐	No ☑	NA ☐	16. Were bubbles present >"pea-size" (¼"or 6mm in diameter) in any VOA vials?
Yes ☑	No ☐	NA ☐	17. Were all DRO/metals/nutrient samples received at a pH of < 2?
Yes ☐	No ☐	NA ☑	18. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9?
Yes ☐	No ☐	NA ☑	19. Were all applicable NH3/TKN/cyanide/phenol/BNA (< 0.5mg/L) samples free of residual chlorine?
Yes ☐	No ☐	NA ☑	20. Were collection temperatures documented on the COC for NC samples?
Yes ☐	No ☐	NA ☑	21. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc…) correctly transcribed from the COC into the comment section in LIMS?
Yes ☑	No ☐		22. Was the quote number used taken from the container label?

Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.) 15127

Sample(s) _____ were received incorrectly preserved and were adjusted accordingly in sample receiving with _____ (H_2SO_4, HNO_3, HCl, NaOH) using SR # _____.

Sample(s) -011 (1), -010 (1) were received with bubbles >6 mm in diameter.

Samples(s) _____ were received with TRC > 0.5 mg/L (If #21 is No) and were adjusted accordingly in sample receiving with sodium thiosulfate ($Na_2S_2O_3$) with Shealy ID: _____.

SC Drinking Water Project Sample(s) pH verified to be < 2 by _____ Date: _____

Sample(s) _____ were Not received at a pH of < 2 and were adjusted accordingly using SR# _____

Sample labels applied by: _____ Verified by: _____ Date: 7/22/17

Comments: _____

2 of 11

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID MW-144T Sample Time 9-27-17

Field Personnel HW Sample Date 1430

Weather Conditions Sunny Air Temperature (°F) _____

Total Depth (ft.) 121 (from well log) 34.16

Depth to Static Water Surface (ft.) 86.84

Calculated Well Volume (1 casing volume) (gal.) 6

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 30

Measured Flow Rate (gal/min) 0.5

Calculated Pumping Time (length of time in minutes) 60

Actual Pumping Time (length of time in minutes) _____

Check-back Time _____

Recovery Time (if needed) 24HR

pH Calibration During Purging (4, 7, 10) (circle two) Actual Reading 4.01/7.01 pH

pH Calibration During Sampling (4, 7, 10) (circle two) Actual Reading 4.01/7.01 pH _____ Date

Purge Start Time	0940	Purge Stop Time	10:18
Purge Date	9-26-17	Total Gallons Purged	6
Purge Method	HW		

	Well Volume Units	Initial	1	2	3	4	5
Volume Purged	gal.	—	6	Sample			
Time	-	0945	Dry	1430			
Temperature	°C	21.5		22.2			
pH	Std. units	6.74		6.99			
Conductivity	µmhos/cm	120		110			
Turbidity	NTUs	—		11.2			

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☐ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☐
VOC	Yes ☐ No ☐	Cyanide (NaOH)	Yes ☐ No ☐
Metals (HNO_3)	Yes ☐ No ☐	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☐
Rinsate Blank	Yes ☐ No ☐	Field Blank	Yes ☐ No ☐
Metals verified (<2 pH)	Yes ☐ No ☐	(10% of samples verified per SAP)	

24

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID UBC-057 Sample Time 1340

Field Personnel _____ Sample Date 7-27-17

Weather Conditions _____ Air Temperature (°F) _____

Total Depth (ft.) 125 (from well log) 59.03

Depth to Static Water Surface (ft.) 67.97

Calculated Well Volume (1 casing volume) (gal.) 10

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 50

Measured Flow Rate (gal/min) 0.5

Calculated Pumping Time (length of time in minutes) 100

Actual Pumping Time (length of time in minutes) _____

Check-back Time _____

Recovery Time (if needed) 24 Hrs

pH Calibration During Purging (4, 7, 10) (circle two) Actual Reading 4.01/7.01 pH

pH Calibration During Sampling (4, 7, 10) (circle two) Actual Reading 4.01/7.01 pH _____ Date

Purge Start Time	1230	Purge Stop Time	14:25
Purge Date	7-26-17	Total Gallons Purged	10
Purge Method	hv		

	Well Volume Units	Initial	1	2	3	4	5
Volume Purged	gal.	—	10	Sample			
Time	-	1230	1240	1340	1340		
Temperature	°C	21.7	21.7	22.0			
pH	Std. units	7.08		7.08			
Conductivity	µmhos/cm	110		100			
Turbidity	NTUs	—		13.9			

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☐ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☐
VOC	Yes ☐ No ☐	Cyanide (NaOH)	Yes ☐ No ☐
Metals (HNO_3)	Yes ☐ No ☐	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☐
Rinsate Blank	Yes ☐ No ☐	Field Blank	Yes ☐ No ☐
Metals verified (<2 pH)	Yes ☐ No ☐	(10% of samples verified per SAP)	

2"

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID VBC-058 Sample Time 7-27-17

Field Personnel _____ Sample Date 1350

Weather Conditions _____ Air Temperature (°F) _____

Total Depth (ft.) 123 (from well log) 45.31

Depth to Static Water Surface (ft.) 79.63

Calculated Well Volume (1 casing volume) (gal.) 8

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 40

Measured Flow Rate (gal/min) 0.5

Calculated Pumping Time (length of time in minutes) 80

Actual Pumping Time (length of time in minutes) _____

Check-back Time _____

Recovery Time (if needed) 24

pH Calibration During Purging (4, 7, 10) (circle two) Actual Reading 4.01/7.01 pH

pH Calibration During Sampling (4, 7, 10) (circle two) Actual Reading 4.01/7.01 pH _____ Date

Purge Start Time	1145	Purge Stop Time	1410
Purge Date	7-26-17	Total Gallons Purged	24
Purge Method	hw		

	Well Volume Units	Initial	1	2	3	4 Sample	5
Volume Purged	gal.	—	8	16	24	24	
Time	-	1145	1205	1315	1410	1350	
Temperature	°C	21.5	20.7	20.6	Dry	20.9	
pH	Std. units	7.33	6.91	6.99		2.06	
Conductivity	µmhos/cm	100	110	110		110	
Turbidity	NTUs	—	—	—		2.98	

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☐ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☐
VOC	Yes ☐ No ☐	Cyanide (NaOH)	Yes ☐ No ☐
Metals (HNO_3)	Yes ☐ No ☐	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☐
Rinsate Blank	Yes ☐ No ☐	Field Blank	Yes ☐ No ☐
Metals verified (<2 pH)	Yes ☐ No ☐	(10% of samples verified per SAP)	

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID VBC-0[illegible]60 Sample Time 1430

Field Personnel _____ Sample Date 7-27-17

Weather Conditions _____ Air Temperature (°F) _____

Total Depth (ft.) 122 (from well log) 67.84

Depth to Static Water Surface (ft.) 54.16

Calculated Well Volume (1 casing volume) (gal.) 12

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 60

Measured Flow Rate (gal/min) 0.5

Calculated Pumping Time (length of time in minutes) 120

Actual Pumping Time (length of time in minutes) _____

Check-back Time _____

Recovery Time (if needed) 20 Hrs

pH Calibration During Purging (4, 7, 10) (circle two) Actual Reading 4.01/7.01 pH

pH Calibration During Sampling (4, 7, 10) (circle two) Actual Reading 4.01/7.01 pH _____ Date

Purge Start Time	1415	Purge Stop Time	
Purge Date	7-26-17	Total Gallons Purged	
Purge Method			

	Well Volume Units	Initial	1	2	3	4	5
Volume Purged	gal.	—	—				
Time	-	1415	1430				
Temperature	°C	24.6	21.6				
pH	Std. units	7.33	6.92				
Conductivity	µmhos/cm	100	154.9				
Turbidity	NTUs	—					

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☐ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☐
VOC	Yes ☐ No ☐	Cyanide (NaOH)	Yes ☐ No ☐
Metals (HNO_3)	Yes ☐ No ☐	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☐
Rinsate Blank	Yes ☐ No ☐	Field Blank	Yes ☐ No ☐
Metals verified (<2 pH)	Yes ☐ No ☐	(10% of samples verified per SAP)	

4"

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID UBC-28AR Sample Time 1440

Field Personnel _____ Sample Date 7-27-17

Weather Conditions _____ Air Temperature (°F) _____

Total Depth (ft.) 167 (from well log) 66.45

Depth to Static Water Surface (ft.) 100.55

Calculated Well Volume (1 casing volume) (gal.) 44

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 220

Measured Flow Rate (gal/min) 1

Calculated Pumping Time (length of time in minutes) 220

Actual Pumping Time (length of time in minutes) _____

Check-back Time _____

Recovery Time (if needed) 0

pH Calibration During Purging (4, 7, 10) (circle two) Actual Reading 4.01/7.01 pH

pH Calibration During Sampling (4, 7, 10) (circle two) Actual Reading 4.01/7.01 pH _____ Date

Purge Start Time	920	Purge Stop Time	1135
Purge Date	7-27-17	Total Gallons Purged	44
Purge Method	LV		

Sample

	Well Volume Units	Initial	1 RW	2	3	4	5
Volume Purged	gal.	—	44				
Time	-	9-2 0920	1440				
Temperature	°C	20.7	21.1				
pH	Std. units	6.81	7.03				
Conductivity	µmhos/cm	130	120				
Turbidity	NTUs	—	2.40				

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☐ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☐
VOC	Yes ☐ No ☐	Cyanide (NaOH)	Yes ☐ No ☐
Metals (HNO_3)	Yes ☐ No ☐	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☐
Rinsate Blank	Yes ☐ No ☐	Field Blank	Yes ☐ No ☐
Metals verified (<2 pH)	Yes ☐ No ☐	(10% of samples verified per SAP)	

4"

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID VBC-025 Sample Time 1250

Field Personnel _____ Sample Date 7-27-17

Weather Conditions _____ Air Temperature (°F) _____

Total Depth (ft.) 174.5 (from well log) 71.41

Depth to Static Water Surface (ft.) 103.09

Calculated Well Volume (1 casing volume) (gal.) 47

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 235

Measured Flow Rate (gal/min) 1

Calculated Pumping Time (length of time in minutes) 235

Actual Pumping Time (length of time in minutes) _____

Check-back Time ~

Recovery Time (if needed) ~

pH Calibration During Purging (4, 7, 10) (circle two) Actual Reading 4.01/7.01 pH

pH Calibration During Sampling (4, 7, 10) (circle two) Actual Reading 4.01/7.01 pH _____ Date

Purge Start Time	930	Purge Stop Time	1250
Purge Date	7-27-17	Total Gallons Purged	141
Purge Method	WM		

	Well Volume Units	Initial	1	2	3 Sample	4	5
Volume Purged	gal.	—	47	94	141		
Time	-	0930	1115	1220	1250		
Temperature	°C	21.5	21.3	21.6	21.5		
pH	Std. units	7.96	7.28	7.29	7.23		
Conductivity	µmhos/cm	100	110	110	110		
Turbidity	NTUs	—	~	~	1.98		

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☐ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☐
VOC	Yes ☐ No ☐	Cyanide (NaOH)	Yes ☐ No ☐
Metals (HNO_3)	Yes ☐ No ☐	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☐
Rinsate Blank	Yes ☐ No ☐	Field Blank	Yes ☐ No ☐
Metals verified (<2 pH)	Yes ☐ No ☐	(10% of samples verified per SAP)	

Field Blank @ 1255

4"

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID UBC-027 Sample Time 7-27-11

Field Personnel _____ Sample Date 1410

Weather Conditions _____ Air Temperature (°F) _____

Total Depth (ft.) 127 (from well log) 74.54

Depth to Static Water Surface (ft.) 102.46

Calculated Well Volume (1 casing volume) (gal.) 49

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 245

Measured Flow Rate (gal/min) 1

Calculated Pumping Time (length of time in minutes) 245

Actual Pumping Time (length of time in minutes) _____

Check-back Time _____

Recovery Time (if needed) _____

pH Calibration During Purging (4, 7, 10) (circle two) Actual Reading 4.01/7.01 pH

pH Calibration During Sampling (4, 7, 10) (circle two) Actual Reading 4.01/7.01 pH _____ Date

Purge Start Time	1140	Purge Stop Time	1410
Purge Date	7-27-11	Total Gallons Purged	141
Purge Method	WP		

	Well Volume Units	Initial	1	2	3	4	5
Volume Purged	gal.	—	49	98	141		
Time	-	1140	1305	1335	1410		
Temperature	°C	21.5	21.6	21.8	21.8		
pH	Std. units	7.47	7.38	7.32	7.28		
Conductivity	µmhos/cm	110	100	106	100		
Turbidity	NTUs	—	—	-	1.69		

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☐ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☐
VOC	Yes ☐ No ☐	Cyanide (NaOH)	Yes ☐ No ☐
Metals (HNO_3)	Yes ☐ No ☐	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☐
Rinsate Blank	Yes ☐ No ☐	Field Blank	Yes ☐ No ☐
Metals verified (<2 pH)	Yes ☐ No ☐	(10% of samples verified per SAP)	

21

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID UBC-061 Sample Time 7-27-17

Field Personnel NWW Sample Date 1210

Weather Conditions SUNNY Air Temperature (°F) 88

Total Depth (ft.) 161 (from well log) 93.62

Depth to Static Water Surface (ft.) 89.38

Calculated Well Volume (1 casing volume) (gal.) 12

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 60

Measured Flow Rate (gal/min) 0.5

Calculated Pumping Time (length of time in minutes) 120

Actual Pumping Time (length of time in minutes) _____

Check-back Time ~

Recovery Time (if needed) ~

pH Calibration During Purging (4 7 10) (circle two) Actual Reading 4.01/7.01 pH

pH Calibration During Sampling (4 7 10) (circle two) Actual Reading 4.01/7.01 pH _____ Date

Purge Start Time	0900	Purge Stop Time	1210
Purge Date	7-27-17	Total Gallons Purged	36
Purge Method	NW		

	Well Volume Units	Initial	1	2	3 Sample	4	5
Volume Purged	gal.	~	12	24	36		
Time	-	0900	1050	1130	1210		
Temperature	°C	20.8	22.1	21.6	21.8		
pH	Std. units	6.28	7.17	7.15	7.14		
Conductivity	µmhos/cm	100	100	100	100		
Turbidity	NTUs	~	~	~	4.62		

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☐ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☐
VOC	Yes ☐ No ☐	Cyanide (NaOH)	Yes ☐ No ☐
Metals (HNO_3)	Yes ☐ No ☐	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☐
Rinsate Blank	Yes ☐ No ☐	Field Blank	Yes ☐ No ☐
Metals verified (<2 pH)	Yes ☐ No ☐	(10% of samples verified per SAP)	

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID UBC-063 Sample Time ~~0~~ 1420

Field Personnel _____ Sample Date 7-27-17

Weather Conditions _____ Air Temperature (°F) _____

Total Depth (ft.) 162 (from well log) 69.98

Depth to Static Water Surface (ft.) 92.02

Calculated Well Volume (1 casing volume) (gal.) 12

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 60

Measured Flow Rate (gal/min) 0.5

Calculated Pumping Time (length of time in minutes) 120

Actual Pumping Time (length of time in minutes) _____

Check-back Time _____

Recovery Time (if needed) _____

pH Calibration During Purging (4, 7, 10) (circle two) Actual Reading 4.01/7.01 pH

pH Calibration During Sampling (4, 7, 10) (circle two) Actual Reading 4.01/7.01 pH _____ Date

Purge Start Time	1240	Purge Stop Time	1420
Purge Date	7-27-17	Total Gallons Purged	36
Purge Method			

	Well Volume Units	Initial	1	2	3	4	5
Volume Purged	gal.	—	~~0~~ 12	24	36		
Time	-	1240	1310	1340	1420		
Temperature	°C	22.7	22.3	22.1	22.0		
pH	Std. units	7.41	6.96	7.16	7.21		
Conductivity	µmhos/cm	100	110	110	100		
Turbidity	NTUs	—	~	~	2.09		

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☐ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☐
VOC	Yes ☐ No ☐	Cyanide (NaOH)	Yes ☐ No ☐
Metals (HNO_3)	Yes ☐ No ☐	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☐
Rinsate Blank	Yes ☐ No ☐	Field Blank	Yes ☐ No ☐
Metals verified (<2 pH)	Yes ☐ No ☐	(10% of samples verified per SAP)	

SHEALY ENVIRONMENTAL SERVICES, INC.

Report of Analysis

Smith Gardner, Inc.
14 North Boylan Avenue
Raleigh, NC 27603
Attention: Kevin Anderson

Project Name: Pinewood LF GW (Detection Monitoring)

Lot Number:**SG28053**

Date Completed:08/11/2017

08/11/2017 11:18 AM
Approved and released by:
Project Manager: Kelly M. Nance

The electronic signature above is the equivalent of a handwritten signature.

Shealy Environmental Services, Inc.
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Case Narrative
Smith Gardner, Inc.
Lot Number: SG28053

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

Sample Summary
Smith Gardner, Inc.
Lot Number: SG28053

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	UBC019	Aqueous	07/28/2017 1300	07/28/2017
002	MW101T	Aqueous	07/28/2017 1145	07/28/2017
003	UBC062	Aqueous	07/28/2017 1010	07/28/2017
004	FIELD BLANK	Aqueous	07/28/2017 1250	07/28/2017

(4 samples)

Detection Summary

Smith Gardner, Inc.

Lot Number: SG28053

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	UBC019	Aqueous	Chloride	300.0	2.4		mg/L	5
001	UBC019	Aqueous	TDS	SM 2540C-	70		mg/L	5
001	UBC019	Aqueous	Barium	6010D	0.10		mg/L	8
002	MW101T	Aqueous	Chloride	300.0	2.0		mg/L	10
002	MW101T	Aqueous	TDS	SM 2540C-	140		mg/L	10
002	MW101T	Aqueous	Barium	6010D	0.050		mg/L	13
003	UBC062	Aqueous	Chloride	300.0	2.8		mg/L	15
003	UBC062	Aqueous	TDS	SM 2540C-	110		mg/L	15
003	UBC062	Aqueous	Barium	6010D	0.090		mg/L	18

(9 detections)

Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SG28053-001
Description: UBC019
Matrix: Aqueous
Date Sampled: 07/28/2017 1300
Date Received: 07/28/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	07/28/2017 1300	CAE		
1		(Specific Con) 120.1	1	07/28/2017 1300	CAE		
1		(Temperature) SM 2550B-2010	1	07/28/2017 1300	CAE		
1		(Turbidity -) 180.1	1	07/28/2017 1300	CAE		
1		(Chloride) 300.0	1	08/09/2017 0324	KWP		48689
1		(TDS) SM 2540C-2011	1	08/03/2017 1604	AJG		48306

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	7.26			su	1
Specific Conductance - Field		120.1	110		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	21.5			° C	1
Turbidity - Field		180.1	2.3		1.0	NTU	1
Chloride		300.0	2.4		2.0	mg/L	1
TDS		SM 2540C-20	70		10	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

Shealy Environmental Services, Inc.
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Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SG28053-001
Description: UBC019
Matrix: Aqueous
Date Sampled: 07/28/2017 1300
Date Received: 07/28/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	08/01/2017 0219	JJG		48020

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		103	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG28053-001
Description: UBC019
Matrix: Aqueous
Date Sampled: 07/28/2017 1300
Date Received: 07/28/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/31/2017 2226	ECP		48014

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		108	70-130
Bromofluorobenzene		99	70-130
Toluene-d8		102	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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ICP-AES Metals

Client: Smith Gardner, Inc.
Laboratory ID: SG28053-001
Description: UBC019
Matrix: Aqueous
Date Sampled: 07/28/2017 1300
Date Received: 07/28/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010D	1	08/09/2017 2052	CJZ	07/29/2017 1120	47867

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	7440-39-3	6010D	0.10		0.025	mg/L	1
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	ND		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	1
Nickel	7440-02-0	6010D	ND		0.040	mg/L	1
Zinc	7440-66-6	6010D	ND		0.020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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CVAA

Client: Smith Gardner, Inc.
Laboratory ID: SG28053-001
Description: UBC019
Matrix: Aqueous
Date Sampled: 07/28/2017 1300
Date Received: 07/28/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	07/31/2017 1808	COH	07/31/2017 1039	47939

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury	7439-97-6	7470A	ND		0.00020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SG28053-002
Description: MW101T
Matrix: Aqueous
Date Sampled: 07/28/2017 1145
Date Received: 07/28/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	07/28/2017 1145	CAE		
1		(Specific Con) 120.1	1	07/28/2017 1145	CAE		
1		(Temperature) SM 2550B-2010	1	07/28/2017 1145	CAE		
1		(Turbidity -) 180.1	1	07/28/2017 1145	CAE		
1		(Chloride) 300.0	1	08/09/2017 0348	KWP		48689
1		(TDS) SM 2540C-2011	1	08/01/2017 1648	AJG		48039

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	6.87			su	1
Specific Conductance - Field		120.1	100		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	21.1			° C	1
Turbidity - Field		180.1	2.6		1.0	NTU	1
Chloride		300.0	2.0		2.0	mg/L	1
TDS		SM 2540C-20	140		10	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

Shealy Environmental Services, Inc.
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Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SG28053-002
Description: MW101T
Matrix: Aqueous
Date Sampled: 07/28/2017 1145
Date Received: 07/28/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	08/01/2017 0244	JJG		48020

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		103	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

Shealy Environmental Services, Inc.
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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG28053-002
Description: MW101T
Matrix: Aqueous
Date Sampled: 07/28/2017 1145
Date Received: 07/28/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/31/2017 2249	ECP		48014

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		109	70-130
Bromofluorobenzene		100	70-130
Toluene-d8		103	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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ICP-AES Metals

Client: Smith Gardner, Inc.
Laboratory ID: SG28053-002
Description: MW101T
Matrix: Aqueous
Date Sampled: 07/28/2017 1145
Date Received: 07/28/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010D	1	08/09/2017 2106	CJZ	07/29/2017 1120	47867

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	7440-39-3	6010D	0.050		0.025	mg/L	1
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	ND		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	1
Nickel	7440-02-0	6010D	ND		0.040	mg/L	1
Zinc	7440-66-6	6010D	ND		0.020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

Shealy Environmental Services, Inc.
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CVAA

Client: Smith Gardner, Inc.
Laboratory ID: SG28053-002
Description: MW101T
Matrix: Aqueous
Date Sampled: 07/28/2017 1145
Date Received: 07/28/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	07/31/2017 1810	COH	07/31/2017 1039	47939

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury	7439-97-6	7470A	ND		0.00020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

Shealy Environmental Services, Inc.
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Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SG28053-003
Description: UBC062
Matrix: Aqueous
Date Sampled: 07/28/2017 1010
Date Received: 07/28/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	07/28/2017 1010	CAE		
1		(Specific Con) 120.1	1	07/28/2017 1010	CAE		
1		(Temperature) SM 2550B-2010	1	07/28/2017 1010	CAE		
1		(Turbidity -) 180.1	1	07/28/2017 1010	CAE		
1		(Chloride) 300.0	1	08/09/2017 0412	KWP		48689
1		(TDS) SM 2540C-2011	1	08/01/2017 1648	AJG		48039

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	7.28			su	1
Specific Conductance - Field		120.1	110		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	21.3			° C	1
Turbidity - Field		180.1	5.2		1.0	NTU	1
Chloride		300.0	2.8		2.0	mg/L	1
TDS		SM 2540C-20	110		10	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SG28053-003
Description: UBC062
Matrix: Aqueous
Date Sampled: 07/28/2017 1010
Date Received: 07/28/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	08/01/2017 0308	JJG		48020

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		104	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG28053-003
Description: UBC062
Matrix: Aqueous
Date Sampled: 07/28/2017 1010
Date Received: 07/28/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/31/2017 2312	ECP		48014

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		107	70-130
Bromofluorobenzene		99	70-130
Toluene-d8		102	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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ICP-AES Metals

Client: Smith Gardner, Inc.
Laboratory ID: SG28053-003
Description: UBC062
Matrix: Aqueous
Date Sampled: 07/28/2017 1010
Date Received: 07/28/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010D	1	08/09/2017 2111	CJZ	07/29/2017 1120	47867

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	7440-39-3	6010D	0.090		0.025	mg/L	1
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	ND		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	1
Nickel	7440-02-0	6010D	ND		0.040	mg/L	1
Zinc	7440-66-6	6010D	ND		0.020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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CVAA

Client: Smith Gardner, Inc.
Laboratory ID: SG28053-003
Description: UBC062
Matrix: Aqueous
Date Sampled: 07/28/2017 1010
Date Received: 07/28/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	07/31/2017 1823	COH	07/31/2017 1039	47939

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury	7439-97-6	7470A	ND		0.00020	mg/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SG28053-004
Description: FIELD BLANK
Matrix: Aqueous
Date Sampled: 07/28/2017 1250
Date Received: 07/28/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/31/2017 2203	ECP		48014

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
2-Chloroethylvinylether	110-75-8	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		108	70-130
Bromofluorobenzene		100	70-130
Toluene-d8		102	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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QC Summary

Inorganic non-metals - MB

Sample ID: SQ48039-001
Batch: 48039
Analytical Method: SM 2540C-2011

Matrix: Aqueous

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
TDS	ND		1	10	mg/L	08/01/2017 1648

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - LCS

Sample ID: SQ48039-002
Batch: 48039
Analytical Method: SM 2540C-2011

Matrix: Aqueous

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
TDS	1500	1400		1	96	90-110	08/01/2017 1648

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - MB

Sample ID: SQ48306-001
Batch: 48306
Analytical Method: SM 2540C-2011

Matrix: Aqueous

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
TDS	ND		1	10	mg/L	08/03/2017 1604

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - LCS

Sample ID: SQ48306-002
Batch: 48306
Analytical Method: SM 2540C-2011

Matrix: Aqueous

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
TDS	1500	1500		1	97	90-110	08/03/2017 1604

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - MB

Sample ID: SQ48689-001
Batch: 48689
Analytical Method: 300.0
Matrix: Aqueous

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
Chloride	ND		1	2.0	mg/L	08/08/2017 1811

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ
N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - LCS

Sample ID: SQ48689-002
Batch: 48689
Analytical Method: 300.0

Matrix: Aqueous

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Chloride	20	19		1	96	90-110	08/08/2017 1747

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - MB

Sample ID: SQ48014-001
Batch: 48014
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
Acrolein	ND		1	20	ug/L	07/31/2017 1908
Acrylonitrile	ND		1	20	ug/L	07/31/2017 1908
Benzene	ND		1	5.0	ug/L	07/31/2017 1908
Bromodichloromethane	ND		1	5.0	ug/L	07/31/2017 1908
Bromoform	ND		1	5.0	ug/L	07/31/2017 1908
Bromomethane (Methyl bromide)	ND		1	10	ug/L	07/31/2017 1908
Carbon tetrachloride	ND		1	5.0	ug/L	07/31/2017 1908
Chlorobenzene	ND		1	5.0	ug/L	07/31/2017 1908
Chloroethane	ND		1	10	ug/L	07/31/2017 1908
2-Chloroethylvinylether	ND		1	10	ug/L	07/31/2017 1908
Chloroform	ND		1	5.0	ug/L	07/31/2017 1908
Chloromethane (Methyl chloride)	ND		1	10	ug/L	07/31/2017 1908
Dibromochloromethane	ND		1	10	ug/L	07/31/2017 1908
1,1-Dichloroethane	ND		1	5.0	ug/L	07/31/2017 1908
1,2-Dichloroethane	ND		1	5.0	ug/L	07/31/2017 1908
1,1-Dichloroethene	ND		1	5.0	ug/L	07/31/2017 1908
cis-1,2-Dichloroethene	ND		1	5.0	ug/L	07/31/2017 1908
trans-1,2-Dichloroethene	ND		1	5.0	ug/L	07/31/2017 1908
1,2-Dichloropropane	ND		1	5.0	ug/L	07/31/2017 1908
cis-1,3-Dichloropropene	ND		1	5.0	ug/L	07/31/2017 1908
trans-1,3-Dichloropropene	ND		1	5.0	ug/L	07/31/2017 1908
Ethylbenzene	ND		1	5.0	ug/L	07/31/2017 1908
Methylene chloride	ND		1	5.0	ug/L	07/31/2017 1908
1,1,2,2-Tetrachloroethane	ND		1	5.0	ug/L	07/31/2017 1908
Tetrachloroethene	ND		1	5.0	ug/L	07/31/2017 1908
Toluene	ND		1	5.0	ug/L	07/31/2017 1908
1,1,1-Trichloroethane	ND		1	5.0	ug/L	07/31/2017 1908
1,1,2-Trichloroethane	ND		1	5.0	ug/L	07/31/2017 1908
Trichloroethene	ND		1	5.0	ug/L	07/31/2017 1908
Vinyl chloride	ND		1	2.0	ug/L	07/31/2017 1908

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		109	70-130
Bromofluorobenzene		100	70-130
Toluene-d8		103	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - LCS

Sample ID: SQ48014-002
Batch: 48014
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acrolein	500	650		1	129	60-140	07/31/2017 1809
Acrylonitrile	100	120		1	123	70-130	07/31/2017 1809
Benzene	50	56		1	112	70-130	07/31/2017 1809
Bromodichloromethane	50	55		1	110	70-130	07/31/2017 1809
Bromoform	50	44		1	87	70-130	07/31/2017 1809
Bromomethane (Methyl bromide)	50	59		1	118	70-130	07/31/2017 1809
Carbon tetrachloride	50	63		1	125	70-130	07/31/2017 1809
Chlorobenzene	50	53		1	107	70-130	07/31/2017 1809
Chloroethane	50	60		1	120	70-130	07/31/2017 1809
Chloroform	50	55		1	111	70-130	07/31/2017 1809
Chloromethane (Methyl chloride)	50	59		1	117	60-140	07/31/2017 1809
Dibromochloromethane	50	53		1	106	70-130	07/31/2017 1809
1,1-Dichloroethane	50	57		1	113	70-130	07/31/2017 1809
1,2-Dichloroethane	50	54		1	108	70-130	07/31/2017 1809
1,1-Dichloroethene	50	59		1	118	70-130	07/31/2017 1809
cis-1,2-Dichloroethene	50	55		1	110	70-130	07/31/2017 1809
trans-1,2-Dichloroethene	50	56		1	112	70-130	07/31/2017 1809
1,2-Dichloropropane	50	58		1	116	70-130	07/31/2017 1809
cis-1,3-Dichloropropene	50	58		1	115	70-130	07/31/2017 1809
trans-1,3-Dichloropropene	50	52		1	105	70-130	07/31/2017 1809
Ethylbenzene	50	55		1	109	70-130	07/31/2017 1809
Methylene chloride	50	52		1	104	70-130	07/31/2017 1809
1,1,2,2-Tetrachloroethane	50	52		1	103	70-130	07/31/2017 1809
Tetrachloroethene	50	55		1	110	70-130	07/31/2017 1809
Toluene	50	54		1	107	70-130	07/31/2017 1809
1,1,1-Trichloroethane	50	57		1	115	70-130	07/31/2017 1809
1,1,2-Trichloroethane	50	51		1	101	70-130	07/31/2017 1809
Trichloroethene	50	56		1	112	70-130	07/31/2017 1809
Vinyl chloride	50	61		1	122	70-130	07/31/2017 1809

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		100	70-130
Bromofluorobenzene		100	70-130
Toluene-d8		101	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution) - MB

Sample ID: SQ48020-001
Batch: 48020
Analytical Method: 8260B (SIM iso.)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
1,4-Dioxane	ND		1	3.0	ug/L	07/31/2017 2130

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		104	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Volatile Organic Compounds by GC/MS (SIM with isotope dilution) - LCS

Sample ID: SQ48020-002
Batch: 48020
Analytical Method: 8260B (SIM iso.)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,4-Dioxane	50	48		1	97	70-130	07/31/2017 2041

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		99	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Volatile Organic Compounds by GC/MS (SIM with isotope dilution) - LCSD

Sample ID: SQ48020-003
Batch: 48020
Analytical Method: 8260B (SIM iso.)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
1,4-Dioxane	50	49		1	98	1.0	70-130	20	07/31/2017 2106

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		101	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.
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ICP-AES Metals - MB

Sample ID: SQ47867-001
Batch: 47867
Analytical Method: 6010D

Matrix: Aqueous
Prep Method: 3005A
Prep Date: 07/29/2017 1120

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
Arsenic	ND		1	0.015	mg/L	07/30/2017 0753
Barium	ND		1	0.025	mg/L	07/30/2017 0753
Cadmium	ND		1	0.0050	mg/L	07/30/2017 0753
Chromium	ND		1	0.010	mg/L	07/30/2017 0753
Lead	ND		1	0.010	mg/L	07/30/2017 0753
Nickel	ND		1	0.040	mg/L	07/30/2017 0753
Zinc	ND		1	0.020	mg/L	07/30/2017 0753

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

ICP-AES Metals - LCS

Sample ID: SQ47867-002
Batch: 47867
Analytical Method: 6010D

Matrix: Aqueous
Prep Method: 3005A
Prep Date: 07/29/2017 1120

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Arsenic	0.40	0.43		1	108	80-120	07/30/2017 0758
Barium	2.0	2.1		1	105	80-120	07/30/2017 0758
Cadmium	0.40	0.42		1	104	80-120	07/30/2017 0758
Chromium	2.0	1.9		1	93	80-120	07/30/2017 0758
Lead	0.40	0.41		1	103	80-120	07/30/2017 0758
Nickel	2.0	2.1		1	104	80-120	07/30/2017 0758
Zinc	2.0	2.4		1	118	80-120	07/30/2017 0758

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.
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CVAA - MB

Sample ID: SQ47939-001
Batch: 47939
Analytical Method: 7470A

Matrix: Aqueous
Prep Method: 7470A
Prep Date: 07/31/2017 1039

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
Mercury	ND		1	0.00020	mg/L	07/31/2017 1719

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.
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CVAA - LCS

Sample ID: SQ47939-002
Batch: 47939
Analytical Method: 7470A

Matrix: Aqueous
Prep Method: 7470A
Prep Date: 07/31/2017 1039

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Mercury	0.0020	0.0022		1	110	80-120	07/31/2017 1722

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

CVAA - MS

Sample ID: SG28053-002MS
Batch: 47939
Analytical Method: 7470A

Matrix: Aqueous
Prep Method: 7470A
Prep Date: 07/31/2017 1039

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Mercury	ND	0.0020	0.0021		1	106	85-115	07/31/2017 1813

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

CVAA - MSD

Sample ID: SG28053-002MD
Batch: 47939
Analytical Method: 7470A

Matrix: Aqueous
Prep Method: 7470A
Prep Date: 07/31/2017 1039

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Mercury	ND	0.0020	0.0020		1	102	3.4	85-115	20	07/31/2017 1821

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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CVAA - MS

Sample ID: SG28053-003MS
Batch: 47939
Analytical Method: 7470A

Matrix: Aqueous
Prep Method: 7470A
Prep Date: 07/31/2017 1039

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Mercury	ND	0.0020	0.0021		1	104	85-115	07/31/2017 1826

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Chain of Custody

and

Miscellaneous Documents

Shealy Environmental Services, Inc.
106 Vantage Point Drive
West Columbia, South Carolina 29172
Telephone No. (803) 791-9700 Fax No. (803) 791-9111
www.shealylab.com

Chain of Custody Record

Number SG28053

Client: Smith Gardner	Report to Contact: Kevin Anderson	Telephone No. / Fax No. / Email: 919-828-0577	Quote No.: 15127
Address: 14 North Bolyan Ave	Samplers Signature: x	Waybill No.	Page: 1 of 2
City: Raleigh / State: NC / Zip Code: 27603	Printed Name: Wesley Wheless		
Project Name: Pinewood Detection Monitoring (GW)			
Project Number	P.O Number		

Analysis (Attach list if more space is needed)

Sample ID / Description (Containers for each sample may be combined on one line)	Date	Time	G=Grab C=Composite	Matrix: Aqueous	Solid	Non-Aq.	No. of Containers by Preservation Type: Unpres.	H2SO4	HNO3	HCL	NaOH	5035 kit	NaOH+ZnAc	VOC	1,4-Dioxane SIM	Metals + Hg - As,Ba,Cd,Cr,Pb,Ni,Z	Chloride/TDS
UBC-019	7/28/17	1300	G	X			2		1	6				✓	✓	✓	✓
MW-101T		1145							1	6				✓	✓	✓	✓
UBC-062		1010							1	6				✓	✓	✓	✓
FIELD BLANK		1250							~~2~~ 3					✓			
~~TRIP BLANK~~							2							✓			

Possible Hazard Identification: [X] Non-Hazard [ ] Flammable [ ] Skin Irritant [ ] Poison [ ] Unknown

Sample Disposal: [ ] Return to Client [X] Disposal by Lab

Note: All samples are retained for six weeks from receipt unless other arrangements are made

Turn Around Time Required (Prior lab approval required for expedited TAT): [X] Standard [ ] Rush (Please Specify)

QC Requirements (Please Specify)

	Date	Time		Date	Time
1. Relinquished by	7-28-17	1320	1. Received by	7/28/17	1320
2. Relinquished by	Date	Time	2. Received by	Date	Time
3. Relinquished by	7/28/17	1545	3. Laboratory Received by	7/28/17	1545

Comments:

LAB USE ONLY
Received on Ice (Check) [X] Y [ ] N [ ] Ice Pack
Receipt Temp. 4.0 °C

Document Number: F-AD-104 Effective Date 08-10-10

Shealy Environmental Services, Inc.
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

SHEALY ENVIRONMENTAL SERVICES, INC.

Shealy Environmental Services, Inc.
Document Number: ME0018C 09

Page 1 of 1
Effective Date: 07/28/2017
Expiry Date: 07/28/2022

Sample Receipt Checklist (SRC)

Client: Smith Gardner Cooler Inspected by/date: BAF 7/28/17 Lot #: SG28053

Means of receipt: ☑ SESI ☐ Client ☐ UPS ☐ FedEx ☐ Other			
Yes ☐	No ☑		1. Were custody seals present on the cooler?
Yes ☐	No ☐	NA ☑	2. If custody seals were present, were they intact and unbroken?

pH strip ID: 17-1172 Cl strip ID: _____

Cooler ID/Original temperature upon receipt/Derived (corrected) temperature upon receipt:

/4.0/4.0 °C / / °C / / °C / / °C

Method: ☑ Temperature Blank ☐ Against Bottles IR Gun ID: 6 IR Gun Correction Factor: 0 °C

Method of coolant: ☑ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ None

Yes ☐	No ☐	NA ☑	3. If temperature of any cooler exceeded 6.0°C, was Project Manager Notified? PM was Notified by: phone / email / face-to-face (circle one).
Yes ☐	No ☐	NA ☑	4. Is the commercial courier's packing slip attached to this form?
Yes ☑	No ☐		5. Were proper custody procedures (relinquished/received) followed?
Yes ☑	No ☐		6. Were sample IDs listed on the COC?
Yes ☑	No ☐		7. Were sample IDs listed on all sample containers?
Yes ☑	No ☐		8. Was collection date & time listed on the COC?
Yes ☑	No ☐		9. Was collection date & time listed on all sample containers?
Yes ☑	No ☐		10. Did all container label information (ID, date, time) agree with the COC?
Yes ☑	No ☐		11. Were tests to be performed listed on the COC?
Yes ☑	No ☐		12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)?
Yes ☑	No ☐		13. Was adequate sample volume available?
Yes ☑	No ☐		14. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes ☐	No ☑		15. Were any samples containers missing/excess (circle one) samples Not listed on COC?
Yes ☑	No ☐	NA ☐	16. Were bubbles present >"pea-size" (¼"or 6mm in diameter) in any VOA vials?
Yes ☑	No ☐	NA ☐	17. Were all DRO/metals/nutrient samples received at a pH of < 2?
Yes ☐	No ☐	NA ☑	18. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9?
Yes ☐	No ☐	NA ☑	19. Were all applicable NH3/TKN/cyanide/phenol/BNA (< 0.5mg/L) samples free of residual chlorine?
Yes ☐	No ☐	NA ☑	20. Were collection temperatures documented on the COC for NC samples?
Yes ☐	No ☐	NA ☑	21. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc…) correctly transcribed from the COC into the comment section in LIMS?
Yes ☐	No ☑		22. Was the quote number used taken from the container label?

Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s) _____ were received incorrectly preserved and were adjusted accordingly in sample receiving with _____ (H_2SO_4, HNO_3, HCl, NaOH) using SR # _____.

Sample(s) MW-101T (3) / UBC-062 (2) were received with bubbles >6 mm in diameter.

Samples(s) _____ were received with TRC > 0.5 mg/L (If #21 is No) and were adjusted accordingly in sample receiving with sodium thiosulfate ($Na_2S_2O_3$) with Shealy ID: _____.

SC Drinking Water Project Sample(s) pH verified to be < 2 by _____ Date: _____

Sample(s) _____ were Not received at a pH of < 2 and were adjusted accordingly using SR# _____

Sample labels applied by: BAF Date: 7/28/17

Comments: _____

4"

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID UBC-019 Sample Time 1306

Field Personnel LWW Sample Date 7-28-17

Weather Conditions _____ Air Temperature (°F) _____

Total Depth (ft.) 120 (from well log) 64.56

Depth to Static Water Surface (ft.) 55.42

Calculated Well Volume (1 casing volume) (gal.) 43

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 215

Measured Flow Rate (gal/min) 0.5 gal/min

Calculated Pumping Time (length of time in minutes) ~~275~~ 430

Actual Pumping Time (length of time in minutes) _____

Check-back Time _____

Recovery Time (if needed) _____

pH Calibration During Purging (4 7 10) (circle two) Actual Reading 4.01/7.01 pH

pH Calibration During Sampling (4 7 10) (circle two) Actual Reading 4.01/7.01 pH _____ Date

Purge Start Time	0850	Purge Stop Time	1300
Purge Date	7-28-17	Total Gallons Purged	129
Purge Method	LW		

	Well Volume Units	Initial	1	2	3	4	5
Volume Purged	gal.	—	43	86	129		
Time	-	0850	1040	1130	1300		
Temperature	°C	20.8	21.2	21.3	21.5		
pH	Std. units	6.99	7.25	7.28	7.26		
Conductivity	µmhos/cm	120	110	120	110		
Turbidity	NTUs	—	—	—	2.29		

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☐ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☐
VOC	Yes ☐ No ☐	Cyanide (NaOH)	Yes ☐ No ☐
Metals (HNO_3)	Yes ☐ No ☐	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☐
Rinsate Blank	Yes ☐ No ☐	Field Blank	Yes ☐ No ☐
Metals verified (<2 pH)	Yes ☐ No ☐	(10% of samples verified per SAP)	

Field Blank @ 1250 ~~1300~~

4"

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID MW-101T Sample Time 1145

Field Personnel MN Sample Date 7-28-17

Weather Conditions Sunny Air Temperature (°F) 84

Total Depth (ft.) 112 (from well log) 29.11

Depth to Static Water Surface (ft.) 89.89

Calculated Well Volume (1 casing volume) (gal.) 18

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 90

Measured Flow Rate (gal/min) 1

Calculated Pumping Time (length of time in minutes) 90

Actual Pumping Time (length of time in minutes) —

Check-back Time —

Recovery Time (if needed) —

pH Calibration During Purging (4, 7, 10) (circle two) Actual Reading 4.01/7.01 pH

pH Calibration During Sampling (4, 7, 10) (circle two) Actual Reading 4.01/7.01 pH _____ Date

Purge Start Time	0845	Purge Stop Time	0950	
Purge Date	7-28-17	Total Gallons Purged	18	
Purge Method	WV			

Sample

	Well Volume Units	Initial	1	2	3	4	5
Volume Purged	gal.	—	18				
Time	-	0845	1145				
Temperature	°C	20.7	21.1				
pH	Std. units	6.99	6.89				
Conductivity	µmhos/cm	100	100				
Turbidity	NTUs	—	2.62				

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☐ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☐
VOC	Yes ☐ No ☐	Cyanide (NaOH)	Yes ☐ No ☐
Metals (HNO_3)	Yes ☐ No ☐	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☐
Rinsate Blank	Yes ☐ No ☐	Field Blank	Yes ☐ No ☐
Metals verified (<2 pH)	Yes ☐ No ☐	(10% of samples verified per SAP)	

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID UBC-062 Sample Time 1010

Field Personnel NV Sample Date 7-28-17

Weather Conditions Sunny Air Temperature (°F) 86

Total Depth (ft.) 129 (from well log) 57.62

Depth to Static Water Surface (ft.) 71.38

Calculated Well Volume (1 casing volume) (gal.) 10

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 50

Measured Flow Rate (gal/min) 2.5

Calculated Pumping Time (length of time in minutes) 100

Actual Pumping Time (length of time in minutes) —

Check-back Time —

Recovery Time (if needed) 24

pH Calibration During Purging (4.0, 7.0, 10) (circle two) Actual Reading 4.01/7.01 pH

pH Calibration During Sampling (4.0, 7.0, 10) (circle two) Actual Reading 4.01/7.01 pH _____ Date

Purge Start Time	1300	Purge Stop Time	1345	
Purge Date	7-27-17	Total Gallons Purged	100	
Purge Method	NV			

Sample

	Well Volume Units	Initial	1	2	3	4	5
Volume Purged	gal.	—	Dry				
Time	-	1300	1010				
Temperature	°C	22.6	21.3				
pH	Std. units	7.55	7.28				
Conductivity	µmhos/cm	130	110				
Turbidity	NTUs	—	5.20				

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☐ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☐
VOC	Yes ☐ No ☐	Cyanide (NaOH)	Yes ☐ No ☐
Metals (HNO_3)	Yes ☐ No ☐	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☐
Rinsate Blank	Yes ☐ No ☐	Field Blank	Yes ☐ No ☐
Metals verified (<2 pH)	Yes ☐ No ☐	(10% of samples verified per SAP)	

Appendix C

Historical Water Quality Analytical Spreadsheets

2017 Third Quarter Detection Monitoring Program Report
Pinewood Site
SCD 070375 985

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TRANSITIONAL LANG SYNE WELLS

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Historical Water Quality Data for MW005A

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Jul-94	ND	195.0	ND	16.4	ND	1250	ND	ND	ND	7.17	21.9	22.8	ND
Jan-95	ND	ND	ND	8.65	ND	799	ND	ND	ND	8.61	16.4	35.7	ND
Jul-95	ND	ND	ND	3.69	ND	739	ND	ND	ND	7.03	22.3	1.94	156
Jan-96	ND	ND	ND	2.76	ND	418	ND	ND	ND	7.22	17.1	3.77	78.5
Jul-96	ND	ND	ND	2.07	ND	471	ND	ND	ND	6.93	20.6	ND	63.7
Jan-97	ND	ND	ND	2.48	ND	511	ND	ND	ND	6.2	17.8	5.01	128
Jul-97	ND	ND	ND	3.91	ND	489	ND	ND	ND	6.87	19.7	1.03	39.8
Jan-98	ND	ND	ND	2.8	ND	489	ND	ND	ND	6.76	18.6	3.5	64.9
Jul-98	ND	ND	ND	2.92	ND	488	ND	ND	ND	6.53	21	2.5	46.8
Jan-99	ND	ND	ND	2.83	ND	460	ND	ND	ND	6.8	18.7	2.5	32.5
Jul-99	ND	ND	ND	3.8	ND	477	ND	ND	ND	6.75	20	1.45	20.1
Jan-00	ND	ND	ND	2.66	ND	411	ND	ND	ND	6.28	18.9	1.55	ND
Jul-00	ND	ND	ND	2.1	ND	415	ND	ND	ND	6.49	20.2	3.5	34.7
Jan-01	ND	ND	ND	2.11	ND	408	ND	ND	ND	6.68	18.1	1.38	56.1
Jul-01	ND	ND	ND	ND	ND	401	ND	ND	ND	6.55	20.2	2.86	36.5
Jan-02	ND	ND	ND	ND	ND	393	ND	ND	ND	6.75	18.3	8.6	ND
Jul-02	ND	ND	ND	ND	ND	398	ND	ND	ND	6.8	21.1	7.14	20.1
Jan-03	ND	ND	ND	ND	ND	353	ND	ND	ND	7.35	17.4	5.89	ND
Jul-03	ND	ND	ND	ND	ND	347	ND	ND	ND	6.46	22.3	11.82	26.8
Jan-04	ND	ND	ND	ND	ND	344	ND	ND	ND	6.6	18.3	3.2	22.3
Apr-12	ND	ND	ND	ND	ND	335	ND	ND	ND	6.34	18.9	8.9	ND
Jul-04	ND	ND	ND	ND	ND	380	ND	ND	ND	6.77	20.3	3.76	ND
Oct-04	ND	ND	ND	ND	ND	328	ND	ND	ND	6.62	19.4	7.44	ND
Jan-05	ND	ND	ND	ND	ND	328	ND	ND	ND	6.7	19.6	7.00	ND
Jul-05	ND	ND	ND	ND	ND	305	ND	ND	ND	22.3	22.3	4.90	ND
Oct-05	ND	ND	ND	ND	ND	321	ND	ND	ND	6.8	18.4	2.88	ND
Jan-06	ND	ND	ND	ND	ND	329	ND	ND	ND	6.9	19.9	14.40	ND
May-06	ND	ND	ND	1.71 J	ND	285	ND	ND	ND	6.7	19.4	2.63	23.4 J
Nov-06	<1.5	67.7 J	<1.0	1.67 J	3.25 J	232	<2.5	<0.06	1.1 J	7.2	21.1	4.01	13 J
Feb-07	<1.5	77.9 J	<1.0	1.62 J	1.55 J	235	<2.5	<0.06	1.5 J	7.1	17.0	3.09	17.2 J
Apr-07	<1.5	77.7 J	<1.0	1.55 J	2.18 J	144	<2.5	<0.06	1.53 J	6.8	20.4	5.15	2.61 J
Aug-07	<1.5	62.5 J	<1.0	1.57 J	1.82 J	237	<2.5	<0.3	1.95 J	7.3	22.0	3.72	2.66 J
Feb-08	<1.5	65.5 J	<1.0	1.54 J	2.55 J	245	<2.5	<0.3	<1.0	6.9	19.0	-	4.73 J
Apr-08	<1.5	69.5 J	<1.0	1.51 J	<2.0	243	<2.5	<0.3	<1.0	6.9	18.7	10.20	8.97 J
Nov-08	<1.5	71 J	<1.0	1.41 J	<2.0	287	<2.5	<0.067	1.67 J	7.6	20.3	6.10	9.21 J
Feb-09	<1.5	64.9 J	<1.0	1.47 J	<2.0	258	<2.5	<0.067	<1.0	6.7	18.4	10.60	8.66 J
May-09	<1.5	72.9 J	<1.0	1.43 J	<2.0	282	<2.5	<0.067	1.75 J	6.9	20.7	8.79	9.31 J
Jul-09	<1.6	73.6 J	<1.0	1.41 J	<1.0	273	<3.3	<0.066	<1.5	7.1	21.5	2.44	7.94 J
Feb-10	<1.6	64.1 J	<1.0	1.39 J	2.18 J	248	<3.3	<0.066	<1.5	7.1	17.5	4.37	<3.3
May-10	<1.6	72.7 J	<1.0	1.38 J	1.18 J	238	<3.3	<0.066	<1.5	6.6	18.5	6.60	9.95 J
Aug-10	<1.6	67.1 J	<1.0	1.58 J	1.63 J	273	<3.3	<0.066	<1.5	7.2	21.4	9.21	7.63 J
Nov-10	<1.6	65.6 J	<1.0	1.47J	3.45 J	278	<3.3	<0.066	<1.5	6.6	21.4	12.20	3.42 J
Feb-11	<1.7	68.4 J	<1.0	1.4 J	4.49 J	239	<3.3	<0.066	2.04 J	6.9	17.2	9.25	7 J
May-11	<1.7	62.8 J	<1.0	1.51J	<1.0	268	<3.3	<0.066	<1.5	7.2	19.4	9.75	3.83 J

Historical Water Quality Data for MW005A

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Aug-11	<1.7	89.3 J	<1.0	1.81J	13.2 J	285	<3.3	0.097 J	8.54 J	7.4	21.6	14.30	12.7 J
Nov-11	<1.7	139 J	<1.0	1.69 J	<1.0	272	<3.3	<0.066	58	7.1	20.6	10.30	26.90
Mar-12	<4.0	<7.5	<0.6	2.00	<2.1	235	<1.9	<0.053	<10	6.8	18.0	3.40	<4.5
May-12	<4.0	<7.5	<0.6	<0.11	<2.1	279	<1.9	<0.053	<10	6.28	21.2	18	<4.5
Aug-12	<4.0	<7.5	<0.6	<0.11	<2.1	274	<1.9	<0.053	<10	6.89	21.8	17	<4.5
Nov-12	<4.0	<7.5	<0.6	<0.11	<2.1	259	<1.9	<0.053	<10	6.67	17.7	2.5	<4.5
Feb-13	<4.0	<7.5	<0.6	<0.11	<2.1	259	<1.9	<0.015	<10	7.2	19.1	5.2	<4.5
May-13	<4.0	<7.5	<0.6	<0.11	<2.1	259	<1.9	<0.015	<10	7.21	19.6	6.1	<4.5
Aug-13	<4.0	<7.5	<0.6	<0.11	<2.1	270	<1.9	<0.015	<10	6.78	21.9	5	<4.5
Oct-13	<4.0	<7.5	<0.6	<0.11	<2.1	256	<1.9	<0.015	<10	6.78	20.9	3.5	<4.5
Feb-14	<4.0	<7.5	<0.6	<0.11	<2.1	243	<1.9	<0.015	<10	6.71	19.4	4.9	<4.5
Apr-14	<4.0	<7.5	<0.6	<0.11	<2.1	243	<1.9	<0.015	<10	6.81	20.2	2.7	<4.5
Jul-14	<4.0	<7.5	<0.6	<0.11	<2.1	288	<1.9	<0.015	<10	6.71	25.7	5.2	<4.5
Oct-14	<4.0	<7.5	<0.6	<0.11	<2.1	307	<1.9	<0.015	<10	6.69	23.3	6.9	<4.5
Jan-15	<4.0	<7.5	<0.6	<0.11	<2.1	229	<2.1	<0.015	<10	6.97	16.6	11	<4.5
Apr-15	<2.2	<1.9	<0.54	<0.11	<0.72	234	<4.7	<0.028	<2.8	6.98	20.8	5.1	<2.2
Aug-15	<2.2	<1.9	<0.54	<0.11	<0.72	290	<4.7	<0.028	<2.8	6.74	23.7	7.4	<2.2
Oct-15	<2.2	<1.9	<0.54	<0.033	<0.72	271	<4.7	<0.028	<2.8	6.71	21	9.5	<2.2
Jan-16	<2.2	<1.9	<0.54	<0.033	<0.72	258	<4.7	<0.028	<2.8	6.51	6.61	12	<2.2
Aug-16	<2.2	<1.9	<0.54	<0.033	<0.72	200	<4.7	<0.028	<2.8	6.71	24.4	7.5	<2.2
Oct-16	<2.2	<1.9	<0.54	<0.2	<0.72	170	<4.7	<0.028	<2.8	6.74	23.3	11	<2.2
Jan-17	<2.2	<1.9	<0.54	<0.2	<0.72	140	<4.7	<0.028	<2.8	7.13	18.9	7.7	<2.2
Apr-17	<2.5	80	<0.6	<0.2	<1.3	249	<4.7	<0.028	<5	7.09	21.1	14	<2.5
Jul-17	<2.5	69	<0.6	<0.2	<1.3	150	<4.7	<0.091	<5	6.56	23.3	12	<2.5

Notes:
Data is presented in units of µg/L unless otherwise noted
ND = Non-detect
J = Indicates value is between the method detection limit and practical quantitation limit and is an estimated concentration
Value following "<" represents the method detection limit

Historical Water Quality Data for MW006TR

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Apr-94	ND	ND	ND	3	ND	195	ND	ND	ND	8.05	21	15.09	ND
Oct-94	ND	ND	ND	ND	ND	195	ND	ND	ND	7.47	20.9	4.63	ND
Apr-95	ND	ND	ND	ND	ND	147	ND	ND	ND	6.72	19.5	10.44	ND
Oct-95	ND	ND	ND	ND	ND	147	ND	ND	ND	6.61	21	3.4	ND
Apr-96	ND	ND	ND	2.13	ND	167	ND	ND	ND	6.73	16.5	1.84	ND
Oct-96	ND	ND	ND	2.18	ND	211	ND	0.21	ND	7.18	19.2	3.15	ND
Apr-97	ND	ND	ND	2.11	ND	171	ND	ND	ND	6.32	20	1.97	ND
Oct-97	ND	ND	ND	ND	ND	183	ND	ND	ND	6.16	20.7	1.98	ND
Apr-98	ND	73.3	ND	2.02	ND	182	ND	ND	ND	5.87	19.1	ND	ND
Oct-98	ND	ND	ND	1.76	ND	148	ND	ND	ND	6.73	19.7	2.71	ND
Apr-99	ND	ND	ND	2.1	ND	200	ND	ND	ND	5.8	20	1.9	ND
Oct-99	ND	ND	ND	ND	ND	261	ND	ND	ND	6.72	19.6	1.1	ND
Apr-00	ND	ND	ND	ND	ND	197	ND	ND	ND	6.14	19.3	2.95	ND
Oct-00	ND	79.3	ND	1.77	ND	ND	ND	ND	ND	ND	ND	ND	ND
Apr-01	ND	ND	ND	ND	ND	154	ND	ND	ND	6.42	18.9	1.18	ND
Oct-01	ND	ND	ND	ND	ND	169	ND	ND	ND	6.41	21.6	0.94	ND
Apr-02	ND	ND	ND	ND	ND	202	ND	ND	ND	6.37	20	2.19	ND
Oct-02	ND	ND	ND	ND	ND	187	ND	ND	ND	6.51	21.7	2.44	ND
Apr-03	ND	ND	ND	ND	ND	151	ND	ND	ND	6.52	19.8	3.15	ND
Oct-03	ND	ND	ND	ND	ND	177	ND	ND	ND	6.39	20	2.95	ND
Jan-12	ND	ND	ND	ND	ND	185	ND	ND	ND	7.39	21	3.95	ND
Apr-04	ND	ND	ND	ND	ND	193	ND	ND	ND	6.42	18.9	11.66	ND
Jul-04	ND	ND	ND	ND	ND	185	ND	ND	ND	6.5	20.3	1.8	ND
Oct-04	ND	ND	ND	ND	ND	190	ND	ND	ND	6.59	21	0.91	ND
Jan-05	ND	ND	ND	ND	ND	187	ND	ND	ND	6.62	20.2	1.12	ND
Apr-05	ND	ND	ND	ND	ND	192	ND	ND	ND	6.71	21.1	2.37	ND
Jul-05	ND	ND	ND	ND	ND	199	ND	ND	ND	6.5	22.1	6.1	ND
Oct-05	ND	ND	ND	ND	ND	180	ND	ND	ND	6.7	19	0.9	ND
Jan-05	ND	ND	ND	ND	ND	187	ND	ND	ND	6.6	20.2	1.12	ND
Jan-06	ND	ND	ND	ND	ND	165	ND	ND	ND	6.8	20	1.72	ND
May-06	ND	ND	ND	1.75	ND	181	ND	ND	ND	6.5	21	7.45	ND
Aug-06	<1.5	76.4 J	<1.0	1.79 J	<1.0	153	<2.5	<0.06	<1.0	6.7	24	7.87	9.04 J
Nov-06	<1.5	51.1 J	<1.0	1.62 J	<1.0	140	<2.5	<0.06	<1.0	6.8	19.1	2.2	5.59 J
Jan-07	<1.5	56 J	<1.0	1.73 J	<1.0	165	<2.5	0.126 J	2.09 J	7.6	17.2	4.04	3.04 J
Apr-07	<1.5	58.9 J	<1.0	1.76 J	<1.0	155	<2.5	<0.06	<1.0	6.6	22.7	4.45	2.84 J
Aug-07	<1.5	74 J	<1.0	1.63 J	<1.0	180	<2.5	<0.03	1.78 J	6.7	22.3	1.37	5.77 J
Feb-08	<1.5	58.2 J	<1.0	1.81 J	<2.0	138	<2.5	<0.03	<1.0	6.8	18.7	29.6	3.9 J
Apr-08	<1.5	84.2 J	<1.0	1.74 J	<2.0	138.4	<2.5	<0.03	1.85 J	6.8	20.2	19.2	3.14 J
Jul-08	<1.5	70.5 J	<1.0	1.78 J	<2.0	152	<2.5	<0.03	<1.0	6.8	21.5	14.9	33.4
Nov-08	<1.5	73.4 J	<1.0	1.62 J	<2.0	144	<2.5	<0.067	<1.0	7.4	19.4	10.8	8.33 J
Jan-09	<1.5	59.8 J	<1.0	1.67 J	<2.0	141	<2.5	<0.067	<1.0	7.4	18.3	13.5	2.9 J
Apr-09	<1.5	55.5 J	<1.0	1.57 J	<2.0	156	<2.5	<0.067	<1.0	6.8	21.2	8.25	5.19 J
Jul-09	<1.6	60 J	<1.0	1.64 J	1.04 J	155	<3.3	<0.066	<1.5	6.7	23.4	4.94	6.74 J
Oct-09	<1.6	66.2 J	<1.0	1.65 J	<1.0	132	<3.3	<0.066	<1.5	7	18.7	4.81	6.68 J

Historical Water Quality Data for MW006TR

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Feb-10	<1.6	54.3 J	<1.0	1.61 J	<1.0	137	<3.3	<0.066	<1.5	7	17.4	1.64	<3.3
Apr-10	<1.6	75.4 J	<1.0	1.7 J	<1.0	150	<3.3	<0.066	<1.5	7.2	19.8	9.12	<3.3
Jul-10	<1.6	75.3 J	<1.0	1.72 J	1.01 J	162	<3.3	<0.066	4.04 J	7.1	22.1	7.16	4.58 J
Nov-10	<1.6	65.9 J	<1.0	1.59 J	<1.0	134	<3.3	<0.066	<1.5	7	18.8	12.3	<3.3
Feb-11	<1.7	53.6 J	<1.0	1.73 J	<1.0	139	<3.3	<0.066	<1.5	7	19.1	8.74	7.94 J
May-11	3.19 J	70.5 J	<1.0	1.83 J	<1.0	132	<3.3	<0.066	<1.5	6.8	18.8	10.3	<3.3
Jul-11	<1.7	68.3 J	<1.0	1.71 J	<1.0	176	<3.3	<0.066	<1.5	7.1	22.9	11.4	<3.3
Nov-11	<1.7	56.6 J	<1.0	1.63 J	<1.0	153	<3.3	<0.066	<1.5	6.7	17.5	11.2	<3.3
Mar-12	<4.0	<7.5	<0.6	<0.11	<2.1	168	<1.9	<0.053	<10	6.8	20	8.51	<4.5
May-12	<4.0	<7.5	<0.6	<0.11	<2.1	194	<1.9	<0.053	<10	7.39	28.2	28	<4.5
Aug-12	<4.0	<7.5	<0.6	<0.11	<2.1	ND	<1.9	<0.053	<10	6.6	20.8	1.3	<4.5
Oct-12	<4.0	<7.5	<0.6	<0.11	<2.1	146	<1.9	<0.053	<10	6.98	17.1	1.1	<4.5
Feb-13	<4.0	<7.5	<0.6	2.1	<2.1	195	<1.9	<0.015	<10	6.6	19.4	4.9	<4.5
May-13	<4.0	<7.5	<0.6	<0.11	<2.1	154	<1.9	<0.015	<10	7.3	20.2	6.6	<4.5
Jul-13	<4.0	<7.5	<0.6	<0.11	<2.1	164	<1.9	<0.015	<10	6.39	22.6	3.2	<4.5
Oct-13	<4.0	85	<0.6	<0.11	<2.1	170	<1.9	<0.015	<10	6.85	24.2	9	<4.5
Jan-14	<4.0	<7.5	<0.6	<0.11	<2.1	138	<1.9	<0.015	<10	7.22	19.3	8.4	<4.5
Apr-14	<4.0	<7.5	<0.6	<0.11	<2.1	154	<1.9	<0.015	<10	6.81	21.5	9.7	<4.5
Jul-14	<4.0	<7.5	<0.6	<0.11	<2.1	166	<1.9	<0.015	<10	7.09	25.7	3.4	<4.5
Oct-14	<4.0	<7.5	<0.6	<0.11	<2.1	203	<1.9	<0.015	<10	7.46	22.9	3.6	<4.5
Jan-15	<4.0	<7.5	<0.6	<0.11	<2.1	162	<2.1	<0.015	<10	7.16	16.2	8.4	<4.5
Apr-15	<2.2	<1.9	<0.54	<0.11	<0.72	177	<4.7	<0.028	<2.8	6.31	23.6	2.6	<2.2
Aug-15	<2.2	<1.9	<0.54	<0.11	<0.72	171	<4.7	<0.028	<2.8	7.37	24.2	8.2	<2.2
Oct-15	<2.2	<1.9	<0.54	<0.033	<0.72	191	<4.7	<0.028	<2.8	7	20	6.8	<2.2
Jan-16	<2.2	<1.9	<0.54	<0.033	<0.72	185	<4.7	<0.028	<2.8	6.37	18.6	2.7	<2.2
Apr-16	<2.2	<1.9	<0.54	<0.033	<0.72	190	<4.7	<0.028	<2.8	6.61	22.7	5.1	<2.2
Jul-16	<2.2	<1.9	<0.54	<0.033	<0.72	140	<4.7	<0.028	<2.8	6.14	27.2	4.9	<2.2
Oct-16	<2.2	<1.9	<0.54	<0.2	<0.72	120	<4.7	<0.028	<2.8	6.34	25.3	3.8	<2.2
Jan-17	<2.2	<1.9	<0.54	<0.2	<0.72	100	<4.7	<0.028	<2.8	5.89	18.2	5	<2.2
Apr-17	<2.5	54	<0.6	<0.2	<1.3	120	<4.7	<0.028	<5	6.36	21.9	4.2	<2.5
Jul-17	<2.5	54	<0.6	<0.2	<1.3	110	<4.7	<0.091	<5	6.49	21.9	4	<2.5

Notes:
Data is presented in units of µg/L unless otherwise noted
ND = Non-detect
J = Indicates value is between the method detection limit and practical quantitation limit and is an estimated concentration
Value following "<" represents the method detection limit

Historical Water Quality Data for MW008TR

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Apr-94	ND	ND	ND	3	ND	195	ND	ND	ND	7.97	21.1	3.24	ND
Oct-94	ND	ND	ND	ND	ND	227	ND	ND	ND	7.74	21.2	1.97	ND
Apr-95	ND	ND	ND	ND	ND	135	ND	ND	ND	6.88	19.5	5.4	ND
Oct-95	ND	ND	ND	ND	ND	158	ND	ND	ND	6.94	20.7	1.61	ND
Apr-96	ND	60.6	ND	1.65	ND	185	ND	ND	ND	6.98	16	3.06	ND
Oct-96	ND	ND	ND	ND	ND	229	ND	ND	ND	7.49	19.3	ND	ND
Apr-97	ND	ND	ND	ND	ND	194	ND	ND	ND	6.57	19.7	ND	ND
Oct-97	ND	ND	ND	ND	ND	220	ND	ND	ND	6.25	20.2	1.6	ND
Apr-98	ND	ND	ND	ND	ND	172	ND	ND	ND	6.62	19.2	ND	ND
Oct-98	ND	ND	ND	1.26	ND	150	ND	ND	ND	7.43	19.8	ND	ND
Apr-99	ND	ND	ND	1.5	ND	270	ND	ND	ND	6.2	21	1.5	ND
Oct-99	ND	ND	ND	ND	ND	297	ND	ND	ND	6.9	19.6	ND	ND
Apr-00	ND	ND	ND	ND	ND	234	ND	ND	ND	6.38	19.1	1.38	ND
Oct-00	ND	ND	ND	ND	ND	256	ND	ND	ND	6.57	19.6	1.23	ND
Apr-01	ND	ND	ND	ND	ND	222	ND	ND	ND	6.71	19	1.46	ND
Oct-01	ND	ND	ND	ND	ND	213	ND	ND	ND	6.88	22.2	0.78	ND
Apr-02	ND	ND	ND	ND	ND	238	ND	ND	ND	6.6	20	2.84	ND
Oct-02	ND	ND	ND	ND	ND	234	ND	ND	ND	6.98	21.8	1.38	ND
Apr-03	ND	ND	ND	ND	ND	186	ND	ND	ND	6.9	20	2.53	ND
Oct-03	ND	ND	ND	ND	ND	209	ND	ND	ND	6.69	20.8	4.45	ND
Jan-04	ND	ND	ND	ND	ND	230	ND	ND	ND	6.48	18.1	1.21	ND
Apr-04	ND	ND	ND	ND	ND	246	ND	ND	ND	6.91	19	1.7	ND
Jul-04	ND	ND	ND	ND	ND	222	ND	ND	ND	6.79	20.9	2.8	ND
Oct-04	ND	ND	ND	ND	ND	231	ND	ND	ND	6.9	20.3	0.75	ND
Jan-05	ND	ND	ND	ND	ND	224	ND	ND	ND	6.9	19.8	1.4	ND
Jul-05	ND	ND	ND	ND	ND	220	ND	ND	ND	6.7	21.9	5.2	ND
Oct-05	ND	ND	ND	ND	ND	228	ND	ND	ND	6.9	19.1	0.77	ND
Jan-06	ND	ND	ND	ND	ND	212	ND	ND	ND	6.9	19.6	6.1	ND
May-06	ND	ND	ND	ND	ND	225	ND	ND	ND	6.7	20.5	5.22	ND
Aug-06	<1.5	79.8 J	<1.0	1.33 J	<1.0	204	<2.5	<0.06	<1.0	6.9	24.3	4.79	9.54 J
Dec-06	<6.0	77.6	<1.0	1.35 J	<1.0	227	<2.5	<0.06	<1.0	7.1	19.3	1.34	7.34 J
Jan-07	<1.5	81.6 J	<1.0	1.22 J	<1.0	215	<2.5	0.0992 J	<1.0	7	16.8	3.26	3.93 J
Apr-07	<1.5	71.2 J	<1.0	1.31 J	<1.0	186	<2.5	<0.06	<1.0	6.9	22.4	3.06	3.01 J
Aug-07	<1.5	77.3 J	<1.0	1.39 J	<1.0	220	<2.5	<0.03	<1.0	6.8	21.4	0.98	6.59 J
Feb-08	<1.5	69.6 J	<1.0	1.33 J	<2.0	176	<2.5	<0.03	<1.0	7	18.5	9.61	5.4 J
Apr-08	<1.5	72.4 J	<1.0	1.32 J	<2.0	181.9	<2.5	<0.03	<1.0	7.1	20.6	19.9	2.17 J
Jul-08	<1.5	70.5 J	<1.0	1.32 J	5.74 J	195	<2.5	<0.03	<1.0	6.9	21.1	9.57	6.06 J
Nov-08	<1.5	66.3 J	<1.0	1.32 J	<2.0	190	<2.5	<0.067	<1.0	7.3	20.2	4.84	8.18 J
Jan-09	<1.5	66.1 J	<1.0	1.21 J	<2.0	191	<2.5	<0.067	<1.0	7.5	18.5	9.85	3.01 J
Apr-09	<1.5	67.3 J	<1.0	1.32 J	<2.0	204	<2.5	<0.067	<1.0	6.9	20.8	7.54	7.26 J
Jul-09	<1.6	70 J	<1.0	1.69 J	<1.0	200	<3.3	<0.066	<1.5	6.7	21.8	5.11	7.64 J
Oct-09	<1.6	65.4 J	<1.0	1.25 J	<1.0	163	<3.3	<0.066	<1.5	7.1	18.8	1.79	10.6 J
Feb-10	<1.6	69.2 J	<1.0	1.24 J	<1.0	178	<3.3	<0.066	<1.5	7	17.1	1.62	<3.3
Apr-10	3.46 J	72.3 J	<1.0	1.37 J	<1.0	192	<3.3	<0.066	<1.5	7	18.2	8.81	5.04 J

Historical Water Quality Data for MW008TR

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Jul-10	<1.6	66.6 J	<1.0	1.34 J	<1.0	199	5.03 J	<0.066	<1.5	7.3	21.8	6.61	5.72 J
Dec-10	<1.6	71.6	<0.11	1.36 J	<2.0	171	<0.5	<0.066	1.06 J	6.9	15.9	7.68	<3.3
Feb-11	<1.7	65.1 J	1.08 J	1.34 J	<1.0	175	<3.3	<0.066	<1.5	6.9	18.6	8.37	10.2 J
May-11	<1.7	70.1 J	<1.0	1.3 J	<1.0	183	<3.3	<0.066	<1.5	6.9	19.9	10.7	<3.3
Jul-11	<1.7	70.9 J	<1.0	1.32 J	<1.0	209	<3.3	<0.066	<1.5	7	21.9	9.81	3.71 J
Nov-11	<1.7	65.4 J	<1.0	1.27 J	<1.0	181	<3.3	<0.066	<1.5	7.1	18.4	19.5	<3.3
Mar-12	<4.0	<7.5	<0.6	<0.11	<2.1	187	<1.9	<0.053	<10	6.85	19.9	8.08	<4.5
May-12	<4.0	<7.5	<0.6	<0.11	<2.1	207	<1.9	<0.053	<10	6.88	23.2	4.7	<4.5
Aug-12	<4.0	<7.5	<0.6	<0.11	<2.1	ND	<1.9	<0.053	<10	6.85	20.6	3	<4.5
Oct-12	<4.0	<7.5	<0.6	<0.11	<2.1	186	<1.9	<0.053	<10	6.65	18.2	-	<4.5
Feb-13	<4.0	<7.5	<0.6	<0.11	<2.1	189	<1.9	<0.015	<10	6.58	19.5	4.3	<4.5
May-13	<4.0	<7.5	<0.6	<0.11	<2.1	190	<1.9	<0.015	<10	7.34	21	7.2	<4.5
Jul-13	<4.0	<7.5	<0.6	<0.11	<2.1	212	<1.9	<0.015	<10	7.01	25.9	5.2	<4.5
Oct-13	<4.0	<7.5	<0.6	<0.11	<2.1	189	<1.9	<0.015	<10	6.76	21.5	7	<4.5
Jan-14	<4.0	<7.5	<0.6	<0.11	<2.1	168	<1.9	<0.015	<10	6.73	19	4.7	<4.5
Apr-14	<4.0	<7.5	<0.6	<0.11	<2.1	197	<1.9	<0.015	<10	6.78	22.5	4.2	<4.5
Jul-14	<4.0	<7.5	<0.6	<0.11	<2.1	205	<1.9	<0.015	<10	6.74	25.8	2.4	<4.5
Oct-14	<4.0	<7.5	<0.6	<0.11	<2.1	204	<1.9	<0.015	<10	6.67	22.1	8.2	<4.5
Jan-15	<4.0	<7.5	<0.6	<0.11	<2.1	164	<2.1	<0.015	<10	7.11	16.4	5.9	<4.5
Apr-15	<2.2	<1.9	<0.54	<0.11	<0.72	205	<4.7	<0.028	<2.8	6.41	21.7	2.2	<2.2
Aug-15	<2.2	<1.9	<0.54	<0.11	<0.72	202	<4.7	<0.028	<2.8	7.23	24.2	6.7	<2.2
Oct-15	<2.2	<1.9	<0.54	<0.033	<0.72	198	<4.7	<0.028	<2.8	6.95	19.4	2.3	<2.2
Jan-16	<2.2	<1.9	<0.54	<0.033	<0.72	181	<4.7	<0.028	<2.8	6.8	18.5	4.5	<2.2
Apr-16	<2.2	<1.9	<0.54	<0.033	<0.72	220	<4.7	<0.028	<2.8	6.5	22.3	3.4	<2.2
Jul-16	<2.2	<1.9	<0.54	<0.033	<0.72	150	<4.7	<0.028	<2.8	6.11	26	1.7	<2.2
Oct-16	<2.2	<1.9	<0.54	<0.2	<0.72	130	<4.7	<0.028	<2.8	6.18	24.7	5.1	<2.2
Jan-17	<2.2	<1.9	<0.54	<0.2	<0.72	120	<4.7	<0.028	<2.8	6.05	19.8	4.6	<2.2
Apr-17	<2.5	63	<0.6	<0.2	<1.3	130	<4.7	<0.028	<5	6.21	21.1	2.7	<2.5
Jul-17	<2.5	60	<0.6	<0.2	<1.3	120	<4.7	<>0.091	<5	6.47	22.3	3.9	<2.5

Notes:
Data is presented in units of µg/L unless otherwise noted
ND = Non-detect
J = Indicates value is between the method detection limit and practical quantitation limit and is an estimated concentration
Value following "<" represents the method detection limit

Historical Water Quality Data for MW009A

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Jul-94	ND	ND	ND	2.24	ND	198	ND	ND	ND	6.53	21.4	24.2	ND
Jan-95	ND	ND	ND	ND	ND	152	ND	ND	ND	7.31	15.6	5.86	ND
Jul-95	ND	ND	ND	ND	ND	162	ND	ND	ND	6.52	22.1	9.98	ND
Jan-96	ND	ND	ND	ND	ND	131	ND	0.27	ND	6.72	18.2	3.69	ND
Jul-96	ND	ND	ND	ND	ND	187	ND	ND	ND	6.26	20.5	3.69	ND
Jan-97	ND	ND	ND	ND	ND	214	ND	ND	ND	6.19	18	2.54	ND
Jul-97	ND	ND	ND	ND	ND	173	ND	ND	ND	6.29	20.5	3.79	ND
Jan-98	ND	ND	ND	ND	ND	180	ND	ND	ND	6.63	19.5	2	ND
Jul-98	ND	ND	ND	ND	ND	202	ND	ND	ND	6.55	20.5	1.87	ND
Jan-99	ND	ND	ND	ND	ND	199	ND	ND	ND	6.28	18.2	ND	ND
Jul-99	ND	ND	ND	1.71	ND	211	ND	ND	ND	6.1	19.8	ND	ND
Jan-00	ND	ND	ND	ND	ND	205	ND	ND	ND	6.4	19.2	1.21	ND
Jul-00	ND	ND	ND	ND	ND	208	ND	ND	ND	6.8	20.4	1.09	ND
Jan-01	ND	ND	ND	ND	ND	223	ND	ND	ND	6.39	18.2	1.1	ND
Jul-01	ND	ND	ND	ND	ND	230	ND	ND	ND	6.58	20.3	0.83	ND
Jan-02	ND	ND	ND	ND	ND	181	ND	ND	ND	6.3	16.7	14.36	ND
Jul-02	ND	ND	ND	ND	ND	205	ND	ND	ND	6.44	20	9.05	ND
Jan-03	ND	ND	ND	ND	ND	199	ND	ND	ND	6.57	18.7	2.3	ND
Jul-03	ND	ND	ND	ND	ND	221	ND	ND	ND	6.45	20	0.78	ND
Jan-04	ND	ND	ND	2.07	ND	197	ND	ND	ND	6.28	18.6	3.21	ND
Apr-12	ND	ND	ND	ND	ND	204	ND	ND	ND	6.52	19	6.22	ND
Jul-04	ND	ND	ND	ND	ND	203	ND	ND	ND	6.41	20.7	5.58	ND
Oct-04	ND	ND	ND	ND	ND	211	ND	ND	ND	6.56	20.2	1.9	ND
Jan-05	ND	ND	ND	ND	ND	207	ND	ND	ND	6.7	19.6	2.5	ND
Jul-05	ND	ND	ND	ND	ND	196	ND	ND	ND	6.6	23.6	5.8	ND
Oct-05	ND	ND	ND	ND	ND	212	ND	ND	ND	6.7	19.1	1.79	ND
Jan-06	ND	ND	ND	2.11	ND	205	ND	ND	ND	6.8	19.2	1.07	ND
May-06	ND	ND	ND	ND	ND	198	ND	ND	ND	6.6	20	7.31	ND
Aug-06	<1.5	80.4 J	<1.0	2.23 J	<1.0	180	<2.5	<0.06	<1.0	6.7	24.1	6.85	8.41 J
Nov-06	<1.5	70.6 J	<1.0	1.53 J	<1.0	152	<2.5	<0.06	<1.0	7	19.5	17	5.65 J
Jan-07	<1.5	70 J	<1.0	1.48 J	<1.0	197	<2.5	0.125 J	<1.0	7.1	18	4.95	3.22 J
Aug-07	<1.5	75.7 J	<1.0	1.52 J	<1.0	226	<2.5	<0.06	<1.0	6.6	21.6	1.27	4.4 J
Feb-08	<1.5	59.1 J	<1.0	1.51 J	<2.0	158	<2.5	<0.030	<1.0	6.9	18.7	4.87	4.4 J
Apr-08	<1.5	84.8 J	<1.0	2.57	<2.0	192	<2.5	<0.030	<1.0	6.7	20.1	16.8	<2.0
Jul-08	<1.5	53.4 J	<1.0	1.43 J	<2.0	173	<2.5	<0.030	<1.0	6.9	21	10.8	4.06 J
Nov-08	<1.5	62.4 J	<1.0	1.35 J	<2.0	193	<2.5	<0.067	<1.0	7.4	19.8	13.2	7.03 J
Jan-09	<1.5	75.1 J	<1.0	1.71 J	<2.0	174	<2.5	<0.067	<1.0	7.4	17.5	8.63	2.55 J
Apr-09	<1.5	72.5 J	<1.0	1.37 J	<2.0	180	3.95 J	<0.067	<1.0	6.9	20.7	9.87	6.17 J
Jul-09	<1.6	63.6 J	<1.0	1.27 J	2.85 J	195	<3.3	<0.066	<1.5	7.1	22	3.05	6.16 J
Oct-09	<1.6	77.4 J	<1.0	1.32 J	1.31 J	157	<3.3	<0.066	<1.5	6.9	18.6	2.72	7.4 J
Jan-10	<1.6	69.3 J	<1.0	1.73 J	1.2 J	176	3.35 J	<0.066	<1.5	7	17.5	11.7	12.6 J
Apr-10	<1.6	72.4 J	<1.0	1.35 J	1.52 J	182	<3.3	<0.066	<1.5	7.3	18.8	12.2	<3.3
Jul-10	<1.6	63.7 J	<1.0	1.35 J	2.88 J	219	<3.3	<0.066	<1.5	7.1	24.1	7.06	3.5 J
Nov-10	<1.6	68.8 J	<1.0	1.24 J	2.17 J	182	<3.3	<0.066	<1.5	7.5	18.9	13.7	<3.3

Historical Water Quality Data for MW009A

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Feb-11	<1.7	69.5 J	<1.0	1.41 J	<1.0	169	<3.3	<0.066	<1.5	7	16.3	9.39	9.31 J
May-11	3.19 J	72.1 J	<1.0	1.41 J	1.97 J	167	<3.3	<0.066	<1.5	7	19.5	11.5	<3.3
Jul-11	<1.7	67.7 J	<1.0	1.33 J	1.89 J	203	<3.3	<0.066	<1.5	7	21.1	17.3	<3.3
Nov-11	<1.7	78.8 J	<1.0	1.28 J	1.22 J	185	<3.3	<0.066	<1.5	7.1	19.7	16.3	<3.3
Mar-12	12	<7.5	<0.6	<0.11	<2.1	181	<1.9	<0.053	<10	7.08	19.7	11.3	<4.5
May-12	<4.0	120	<0.6	4.5	<2.1	309	<1.9	<0.053	<10	6.53	23.9	2.4	<4.5
Aug-12	<4.0	120	<0.6	3.6	<2.1	ND	<1.9	<0.053	<10	6.5	20.3	ND	<4.5
Oct-12	<4.0	120	<0.6	3.9	<2.1	281	<1.9	<0.053	<10	6.49	18.5	-	<4.5
Feb-13	<4.0	<7.5	<0.6	2.6	<2.1	206	<1.9	<0.015	<10	6.63	18.9	5.5	<4.5
May-13	<4.0	100	<0.6	2.8	<2.1	226	<1.9	<0.015	<10	6.78	19.5	1.9	30
Jul-13	<4.0	120	<0.6	3.1	<2.1	242	<1.9	<0.015	<10	6.37	23.2	2.2	<4.5
Oct-13	<4.0	120	<0.6	3.2	<2.1	270	<1.9	<0.015	<10	6.58	23.3	5.7	<4.5
Jan-14	<4.0	120	<0.6	3.6	<2.1	222	<1.9	<0.015	<10	6.71	14	4.4	<4.5
Apr-14	<4.0	110	<0.6	3.2	<2.1	240	<1.9	<0.015	<10	6.74	23.6	5	<4.5
Jul-14	<4.0	120	<0.6	3.4	<2.1	248	<1.9	<0.015	<10	6.62	25.2	4.4	<4.5
Oct-14	<4.0	110	<0.6	3.2	<2.1	242	<1.9	<0.015	<10	6.47	23.7	3.7	<4.5
Jan-15	<4.0	<7.5	<0.6	2.1	<2.1	207	<2.1	<0.015	<10	7.05	15.8	4.4	<4.5
Apr-15	<2.2	100	<0.54	2.8	<0.72	185	<4.7	<0.028	<2.8	6.2	21	5.9	<2.2
Aug-15	<2.2	<1.9	<0.54	2.3	<0.72	237	<4.7	<0.028	<2.8	7	24.3	9.1	<2.2
Oct-15	<2.2	<1.9	<0.54	2.1	<0.72	211	<4.7	<0.028	<2.8	6.78	20	10	<2.2
Jan-16	<2.2	120	<0.54	3.1	<0.72	559	<4.7	<0.028	<2.8	6.55	18.6	8.1	<2.2
Apr-16	<2.2	<1.9	<0.54	<0.033	<0.72	230	<4.7	<0.028	<2.8	6.74	21.7	5.7	<2.2
Jul-16	<2.2	130	<0.54	3.9	<0.72	210	<4.7	<0.028	<2.8	6.07	27.1	4.8	<2.2
Oct-16	<2.2	110	<0.54	2.7	<0.72	150	<4.7	<0.028	<2.8	6.24	25.5	4.8	<2.2
Jan-17	<2.2	<1.9	<0.54	2.3	<0.72	130	<4.7	<0.028	<2.8	6.19	19.2	4.9	<2.2
Apr-17	<2.5	69	<0.6	<0.2	<1.3	130	<4.7	<0.028	<5	6.52	22.6	6.3	<2.5
Jul-17	<2.5	130	<0.6	3.6	<1.3	140	<4.7	<0.091	<5	6.38	21.6	5.2	<2.5

Notes:
Data is presented in units of µg/L unless otherwise noted
ND = Non-detect
J = Indicates value is between the method detection limit and practical quantitation limit and is an estimated concentration
Value following "<" represents the method detection limit

Historical Water Quality Data for MW016TR

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Jul-94	ND	ND	ND	4.11	ND	335	ND	ND	ND	7.56	23.4	8.2	ND
Oct-94	ND	ND	ND	3.52	ND	330	ND	0.21	ND	6.83	21.9	16.4	21.9
Apr-95	ND	ND	ND	4.34	ND	273	ND	ND	ND	6.93	16.5	14.89	ND
Oct-95	ND	ND	ND	4.57	ND	250	ND	ND	ND	6.43	20.3	4.9	ND
Apr-96	ND	33	ND	4.61	ND	320	ND	ND	ND	6.24	19.6	17.6	ND
Oct-96	ND	ND	ND	4.85	ND	378	ND	ND	ND	6.6	19.1	1.93	ND
Apr-97	ND	ND	ND	4.69	ND	333	ND	ND	ND	6.1	19.9	2.14	ND
Oct-97	ND	ND	ND	4.14	ND	335	ND	ND	ND	6	20.1	1.98	ND
Apr-98	ND	ND	ND	4.63	ND	286	ND	ND	ND	6	19.4	ND	ND
Oct-98	ND	ND	ND	4.19	ND	362	ND	ND	ND	6.25	19.8	12.5	ND
Apr-99	ND	ND	ND	4.7	ND	360	ND	ND	ND	5.7	19	0.33	ND
Oct-99	ND	ND	ND	3.73	ND	358	ND	ND	ND	5.81	19.5	1.78	ND
Apr-00	ND	ND	ND	3.82	ND	287	ND	ND	ND	6.16	19	3	ND
Oct-00	ND	ND	ND	3.61	ND	258	ND	ND	ND	6.37	19.8	2.34	ND
Apr-01	ND	ND	ND	3.8	ND	356	ND	ND	ND	6.2	19.6	9.34	ND
Oct-01	ND	ND	ND	3.93	ND	364	ND	ND	ND	6.18	20	2.28	ND
Apr-02	ND	ND	ND	NS	ND	361	ND	ND	ND	6.11	20.6	1.65	ND
Oct-02	ND	ND	ND	3.95	ND	355	ND	ND	ND	6.33	19.9	10.93	ND
Apr-03	ND	ND	ND	4.08	ND	353	ND	ND	ND	5.87	19.4	1.31	ND
Oct-03	ND	ND	ND	3.62	ND	332	ND	ND	ND	6.07	18.9	8.34	ND
Jan-04	ND	ND	ND	3.86	31	333	23.3	ND	ND	6.4	17.8	2.35	ND
Apr-04	ND	111	ND	3.97	ND	312	ND	ND	ND	6.2	18.9	70.8	24.3
Jul-04	ND	ND	ND	4.04	ND	351	ND	ND	ND	6.3	20.3	9.8	ND
Oct-04	ND	ND	ND	4.14	ND	341	ND	ND	ND	6.3	20.1	10.39	ND
Jan-05	ND	ND	ND	4	ND	314	ND	ND	ND	6.4	19.8	65	ND
Apr-05	ND	ND	ND	3.65	ND	315	ND	ND	ND	6.4	20.3	6.85	ND
Jul-05	ND	ND	ND	3.66	ND	318	ND	ND	ND	6.4	21.2	5.55	ND
Oct-05	ND	ND	ND	3.94	ND	331	ND	ND	ND	6.3	19.4	2.5	ND
Jan-06	ND	ND	ND	3.61	ND	318	ND	ND	ND	6.4	19.3	21.6	ND
May-06	ND	ND	ND	3.72	ND	315	ND	ND	ND	6.4	20.1	8.07	ND
Aug-06	<1.5	35.7 J	<1.0	3.58	<1.0	299	<2.5	<0.06	<1.0	6.5	24.4	11.8	8.07 J
Nov-06	<1.5	37.1 J	<1.0	3.82	<1.0	237	2.53 J	<0.06	<1.0	6.7	21.7	23.4	8.72 J
Feb-07	2.11 J	37.6 J	<1.0	3.71	<1.0	305	<2.5	0.12 J	<1.0	6.1	16.9	7.04	7.8 J
Apr-07	<1.5	33.9 J	<1.0	3.68	<1.0	301	<2.5	<0.06	<1.0	6.3	20.4	34.9	2.03 J
Aug-07	<1.5	30.2 J	<1.0	3.81	<1.0	341	<2.5	<0.03	<1.0	6.3	21.4	0.93	8.03 J
Nov-07	<1.5	35.4 J	<1.0	3.75	<1.0	269	<2.5	<0.03	<1.0	6.6	19.1	18.5	4.73 J
Feb-08	<1.5	33.3 J	<1.0	3.52	<2.0	259	<2.5	<0.03	<1.0	6.3	18.2	7.37	4.68 J
Apr-08	<1.5	34.7 J	<1.0	3.71	<2.0	276	<2.5	<0.03	<1.0	6.8	20.9	28	2.95 J
Jul-08	<1.5	32.7 J	<1.0	3.81	<2.0	305	<2.5	<0.03	<1.0	6.7	21.8	8.47	3.02 J
Nov-08	<1.5	34.7 J	<1.0	3.72	<2.0	267	<2.5	<0.067	<1.0	6.8	18.9	21.8	6.94 J
Jan-09	<1.5	32.5 J	<1.0	3.58	<2.0	277	<2.5	<0.067	<1.0	6.4	18.8	12.3	3.47 J
Apr-09	<1.5	33.8 J	<1.0	3.58	<2.0	276	<2.5	<0.067	<1.0	6.2	21.2	13.5	8.86 J
Jul-09	<1.6	31.9 J	<1.0	3.47	<1.0	297	<3.3	<0.066	<1.5	6.1	22.4	4.58	5.27 J
Oct-09	<1.6	30.2 J	<1.0	3.53	<1.0	284	<3.3	<0.066	<1.5	6.4	17.6	3.34	9.34 J
Jan-10	<1.6	36.2 J	<1.0	3.58	1.2 J	252	<3.3	<0.066	<1.5	6.5	17	12.4	28.5

Historical Water Quality Data for MW016TR

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Apr-10	<1.6	47.9 J	<1.0	3.69	<1.0	275	<3.3	<0.066	2.47 J	6.9	18.6	17.1	<3.3
Jul-10	<1.6	34.9 J	<1.0	3.49	<1.0	308	<3.3	<0.066	<1.5	6.9	23.8	10.8	7.47 J
Nov-10	<1.6	29.1 J	<1.0	3.72	<1.0	265	<3.3	<0.066	<1.5	6.8	18.4	16.1	<3.3
Feb-11	<1.7	34.2 J	1.64 J	3.7	<1.0	253	<3.3	<0.066	<1.5	6.2	16.9	10.6	11.7 J
May-11	<1.7	30.9 J	<1.0	3.67	<1.0	269	<3.3	<0.066	<1.5	6.8	19	9	<3.3
Jul-11	<1.7	18.1 J	<1.0	3.4	<1.0	329	<3.3	<0.066	<1.5	6.5	21.8	11.1	<3.3
Nov-11	<1.7	20.8 J	<1.0	3.29	<1.0	304	<3.3	<0.066	<1.5	6.5	19.3	19.9	<3.3
Mar-12	<4.0	<7.5	<0.6	4.1	<2.1	303	<1.9	<0.053	<10	6.42	20	9	<4.5
May-12	<4.0	<7.5	<0.6	3.8	<2.1	306	<1.9	<0.053	<10	6.34	21.4	34	<4.5
Aug-12	<4.0	<7.5	<0.6	3.8	<2.1	ND	<1.9	<0.053	<10	6.59	21.4	8.3	<4.5
Nov-12	<4.0	31	<0.6	-	<2.1	267	<1.9	<0.053	<10	6.75	16.3	38	<4.5
Feb-13	<4.0	<7.5	<0.6	3.8	<2.1	266	<1.9	<0.015	<10	6.23	16.7	28	<4.5
May-13	<4.0	<7.5	<0.6	3.9	<2.1	291	<1.9	<0.015	<10	6.61	20.3	-	<4.5
Jul-13	10	<7.5	<0.6	3.9	<2.1	3590	<1.9	<0.015	<10	5.76	23	2.9	<4.5
Nov-13	11	<7.5	<0.6	4.5	<2.1	297	<1.9	<0.015	<10	6.45	20.4	19	<4.5
Jan-14	<4.0	<7.5	<0.6	3.8	<2.1	327	<1.9	<0.015	<10	6.46	7	9.3	<4.5
Apr-14	<4.0	<7.5	<0.6	4	<2.1	296	<1.9	<0.015	<10	6.37	20.6	9.8	<4.5
Jul-14	<4.0	<7.5	<0.6	3.9	<2.1	325	<1.9	<0.015	<10	6.22	21.8	37	<4.5
Oct-14	<4.0	<7.5	<0.6	3.5	<2.1	346	<1.9	<0.015	<10	6.53	21.2	8.8	<4.5
Jan-15	<4.0	<7.5	<0.6	4.1	<2.1	233	<2.1	<0.015	<10	6.55	13.6	9.5	<4.5
Apr-15	<2.2	<1.9	<0.54	4.1	<0.72	297	<4.7	<0.028	<2.8	6.31	18.7	6.9	<2.2
Aug-15	<2.2	<1.9	<0.54	4	<0.72	286	<4.7	<0.028	<2.8	6.28	25.1	3.9	<2.2
Nov-15	<2.2	<1.9	<0.54	4	<0.72	319	<4.7	<0.028	<2.8	6.63	20.7	6.7	<2.2
Jan-16	<2.2	<1.9	<0.54	4.2	<0.72	308	<4.7	<0.028	<2.8	6.41	19.2	7	<2.2
Apr-16	<2.2	<1.9	<0.54	3.9	<0.72	350	<4.7	<0.028	<2.8	6.21	20.8	14	<2.2
Jul-16	<2.2	<1.9	<0.54	3.8	<0.72	220	<4.7	<0.028	<2.8	6.08	24.5	18	<2.2
Oct-16	<2.2	<1.9	<0.54	4	<0.72	160	<4.7	<0.028	<2.8	6.02	19.5	13	<2.2
Jan-17	<2.2	<1.9	<0.54	3.8	<0.72	140	<4.7	<0.028	<2.8	5.65	21.2	13	<2.2
Apr-17	<2.5	35	<0.6	3.8	<1.3	302	<4.7	<0.028	<5	7.01	21.1	6.3	<2.5
Jul-17	<2.5	33	<0.6	3.9	<1.3	170	<4.7	<0.091	<5	6.05	22	1.6	<2.5

Notes:
Data is presented in units of µg/L unless otherwise noted
ND = Non-detect
J = Indicates value is between the method detection limit and practical quantitation limit and is an estimated concentration
Value following "<" represents the method detection limit

Historical Water Quality Data for MW019A

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
May-94	ND	ND	ND	5	ND	2.26	ND	ND	ND	6.51	18.6	4.25	ND
Oct-94	ND	ND	ND	ND	ND	250	ND	ND	ND	7.16	18.4	6.96	ND
Apr-95	ND	ND	ND	ND	ND	216	ND	ND	ND	6.59	18.4	3.74	ND
Oct-95	ND	ND	ND	ND	ND	170	ND	ND	ND	6.88	16.7	3.1	ND
Apr-96	ND	43.5	ND	1.88	ND	234	ND	ND	ND	6.71	18.2	2.62	ND
Oct-96	ND	ND	ND	ND	ND	258	ND	ND	ND	7.05	18.5	3.19	ND
Apr-97	ND	ND	9.38	ND	ND	236	ND	ND	ND	6.4	17.4	2.64	ND
Oct-97	ND	ND	ND	ND	ND	239	ND	ND	ND	6.29	19.9	4.01	ND
Apr-98	ND	ND	ND	ND	ND	255	ND	ND	ND	6.04	19.2	12.2	ND
Oct-98	ND	ND	ND	ND	ND	243	ND	ND	ND	6.1	19.2	13.4	ND
Apr-99	ND	ND	ND	1.9	ND	230	ND	ND	ND	6.1	19	4.3	ND
Oct-99	ND	ND	ND	ND	ND	270	ND	ND	ND	6.25	19.2	3.84	ND
Apr-00	ND	ND	ND	ND	ND	235	ND	ND	ND	6.38	18.7	4.53	ND
Oct-00	ND	ND	ND	ND	ND	247	ND	ND	ND	6.53	18.5	12.09	ND
Apr-01	ND	ND	ND	ND	ND	231	ND	ND	ND	6.4	20	15.05	ND
Oct-01	ND	ND	ND	ND	ND	231	ND	ND	ND	6.56	19.3	4.58	ND
Apr-02	ND	ND	ND	ND	ND	190	ND	ND	ND	6.49	18.6	7	ND
Oct-02	ND	ND	ND	ND	ND	205	ND	ND	ND	6.6	18.9	4.17	ND
Apr-03	ND	ND	ND	ND	ND	223	ND	ND	ND	6.71	17.4	1.87	ND
Oct-03	ND	ND	ND	ND	ND	222	ND	ND	ND	6.57	17.7	2.12	ND
Jan-04	ND	ND	ND	ND	ND	219	ND	ND	ND	6.8	17.2	5.4	ND
Apr-04	ND	ND	ND	ND	ND	257	ND	ND	ND	6.1	17.2	4.4	ND
Jul-04	ND	ND	ND	ND	ND	241	ND	ND	ND	6.6	20	2.1	ND
Oct-04	ND	ND	ND	ND	ND	226	ND	ND	ND	6.4	19.3	5.9	ND
Jan-05	ND	ND	ND	ND	ND	231	ND	ND	ND	6.6	18.7	5.85	ND
Apr-05	ND	ND	ND	ND	ND	231	ND	ND	ND	6.7	18.6	8.46	ND
Jul-05	ND	ND	ND	ND	ND	219	ND	ND	ND	6.6	21	4.4	ND
Oct-05	ND	ND	ND	ND	ND	211	ND	ND	ND	6.7	19.7	4.33	ND
Jan-06	ND	ND	ND	ND	ND	187	ND	ND	ND	6.5	19.5	0.73	ND
May-06	ND	ND	ND	ND	ND	198	ND	ND	ND	6.6	17.8	3.3	ND
Aug-06	3.29 J	76.1 J	<1.0	1.64 J	<1.0	251	<2.5	<0.06	<1.0	6.29	20.5	4.3	9.03 J
Nov-06	<1.5	75.2 J	<1.0	1.68 J	<1.0	157	<2.5	<0.06	<1.0	6.6	20.9	4.83	3.78 J
Feb-07	<1.5	78.7 J	<1.0	1.69 J	1.06 J	181	<2.5	<0.06	<1.0	6.7	16.9	2.64	8.92 J
May-07	<1.5	59.6 J	<1.0	1.69 J	1.9 J	192	<2.5	<0.06	<1.0	6.5	19.9	12.5	<2.0
Aug-07	<1.5	67.1 J	<1.0	1.65 J	1.06 J	205	<2.5	<0.03	<1.0	6.5	23.3	2.68	<2.0
Nov-07	3.69 J	65.6 J	<1.0	1.61 J	1.25 J	209	<2.5	<0.03	<1.0	6.9	20.2	6.83	8.54 J
Feb-08	<1.5	66.2 J	<1.0	1.67 J	<2.0	169	<2.5	<0.03	<1.0	6.5	18.3	12.4	6.94 J
Apr-08	<1.5	70.9 J	<1.0	1.64 J	3.01 J	202	3.67 J	<0.03	<1.0	6.9	17.9	25.6	3.92 J
Aug-08	<1.5	71.6 J	<1.0	1.71 J	<2.0	209	<2.5	<0.03	<1.0	6.8	22	8.91	5.1 J
Nov-08	<1.5	71.2 J	<1.0	1.74 J	<2.0	187	<2.5	<0.067	<1.0	7.1	19.2	4.47	7.54 J
Feb-09	<1.5	64.5 J	<1.0	1.57 J	<2.0	172	<2.5	<0.067	<1.0	7	16.7	9.99	<2.0
May-09	<1.5	69.4 J	<1.0	1.59 J	<2.0	201	<2.5	<0.067	<1.0	6.6	18.4	9.76	5.12 J
Jul-09	<1.6	66.3 J	<1.0	1.62 J	1.21 J	207	<3.3	<0.066	<1.5	6.4	21.6	3.27	5.39 J
Oct-09	<1.6	72.8 J	<1.0	1.55 J	<1.0	194	<3.3	<0.066	<1.5	6.6	19.8	5.31	8.29 J

Historical Water Quality Data for MW019A

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Feb-10	<1.6	71.8 J	<1.0	1.58 J	<1.0	176	<3.3	<0.066	<1.5	7	15	2.6	<3.3
May-10	<1.6	74.7 J	<1.0	1.52 J	<1.0	197	<3.3	<0.066	1.5 J	6.6	19.8	7.15	3.7 J
Aug-10	<1.6	63.4 J	<1.0	1.71 J	<1.0	204	<3.3	<0.066	<1.5	6.9	24.6	7.42	4.76 J
Nov-10	<1.6	68.7 J	<1.0	1.74 J	<1.0	185	<3.3	<0.066	<1.5	6.8	19.9	10.2	<3.3
Feb-11	<1.7	67.2 J	<1.0	1.71 J	1.96 J	172	<3.3	<0.066	<1.5	6.8	16.7	15	12.8 J
May-11	<1.7	80.9 J	<1.0	1.77 J	<1.0	193	<3.3	<0.066	<1.5	6.8	20.6	17.1	3.79 J
Aug-11	<1.7	69 J	<1.0	1.66 J	2.12 J	171	<3.3	<0.066	<1.5	6.8	21.4	11.8	<3.3
Nov-11	<1.7	68.3 J	<1.0	1.65 J	5.72 J	167	<3.3	<0.066	<1.5	6.9	18.2	19.8	<3.3
Mar-12	<4.0	<7.5	<0.6	<0.11	<2.1	191	<1.9	<0.053	<10	7.03	19.2	9	<4.5
May-12	<4.0	<7.5	<0.6	<0.11	<2.1	195	<1.9	<0.053	<10	6.49	20.1	19	<4.5
Aug-12	<4.0	<7.5	<0.6	<0.11	<2.1	212	<1.9	<0.053	<10	6.33	22.8	16	<4.5
Nov-12	<4.0	<7.5	<0.6	<0.11	<2.1	213	<1.9	<0.053	<10	6.75	22.5	15	<4.5
Feb-13	<4.0	<7.5	<0.6	<0.11	<2.1	188	<1.9	<0.015	<10	7.31	18	12	<4.5
May-13	<4.0	<7.5	<0.6	<0.11	<2.1	193	<1.9	<0.015	<10	7.08	18.5	17	<4.5
Aug-13	<4.0	<7.5	<0.6	<0.11	<2.1	205	<1.9	<0.015	<10	6.35	21.8	5.1	<4.5
Oct-13	<4.0	<7.5	<0.6	<0.11	<2.1	211	<1.9	<0.015	<10	6.61	22.2	6.4	<4.5
Jan-14	<4.0	<7.5	<0.6	<0.11	<2.1	229	<1.9	<0.015	<10	6.71	13.7	2.7	<4.5
Apr-14	<4.0	<7.5	<0.6	<0.11	<2.1	203	<1.9	<0.015	<10	6.51	23.5	5.6	<4.5
Jul-14	<4.0	<7.5	<0.6	<0.11	<2.1	234	<1.9	<0.015	<10	6.48	23	4.3	<4.5
Oct-14	<4.0	<7.5	<0.6	<0.11	<2.1	233	<1.9	<0.015	<10	6.83	22.9	3.3	<4.5
Jan-15	<4.0	<7.5	<0.6	<0.11	<2.1	188	<2.1	<0.015	<10	6.78	16.7	13	<4.5
May-15	<2.2	<1.9	<0.54	<0.11	<0.72	172	<4.7	<0.028	<2.8	6.78	18.1	2.1	<2.2
Aug-15	<2.2	<1.9	<0.54	<0.11	<0.72	239	<4.7	<0.028	<2.8	6.92	30	6.8	<2.2
Oct-15	<2.2	<1.9	<0.54	<0.033	<0.72	202	<4.7	<0.028	<2.8	6.77	21.4	7.6	<2.2
Feb-16	<2.2	<1.9	<0.54	<0.033	<0.72	203	<4.7	<0.028	<2.8	6.45	20.6	39	<2.2
Apr-16	<2.2	<1.9	<0.54	<0.033	<0.72	250	<4.7	<0.028	<2.8	6.56	21.3	7.4	<2.2
Jul-16	<2.2	<1.9	<0.54	<0.033	<0.72	180	<4.7	<0.028	<2.8	6.64	23.1	3.29	<2.2
Oct-16	<2.2	<1.9	<0.54	<0.2	<0.72	160	<4.7	<0.028	<2.8	6.32	22.3	4.6	<2.2
Jan-17	<2.2	<1.9	<0.54	<0.2	<0.72	120	<4.7	<0.028	<2.8	6.35	18.8	3.2	<2.2
Apr-17	<2.5	73	<0.6	<0.2	<1.3	182	<4.7	<0.028	<5	6.86	18.9	5.3	<2.5
Jul-17	<2.5	77	<0.6	<0.2	<1.3	140	<4.7	<0.091	<5	6.5	22.2	4	<2.5

Notes:
Data is presented in units of µg/L unless otherwise noted
ND = Non-detect
J = Indicates value is between the method detection limit and practical quantitation limit and is an estimated concentration
Value following "<" represents the method detection limit

Historical Water Quality Data for MW020A

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Apr-94	ND	ND	ND	4	ND	3.91	ND	ND	ND	7.24	19.3	11.15	21
Jul-94	ND	ND	ND	3.42	ND	4.36	ND	ND	ND	6.58	20	11.4	ND
Jan-95	ND	ND	ND	3.15	ND	442	ND	ND	ND	6.61	19.3	8.83	20.8
Jul-95	ND	ND	ND	2.92	ND	386	ND	ND	ND	6.53	22.5	6.89	ND
Jan-96	ND	ND	ND	3.43	ND	388	ND	ND	ND	6.55	17.6	8.85	ND
Jul-96	ND	ND	ND	3.67	ND	454	ND	ND	ND	6.51	20	8.26	ND
Jan-97	ND	ND	ND	3.67	ND	480	ND	ND	ND	6.63	18.8	6.62	ND
Jul-97	ND	ND	ND	4.26	ND	468	ND	ND	ND	6.15	19.7	1.41	ND
Jan-98	ND	ND	ND	3.31	ND	511	ND	ND	ND	6.26	18.5	5.6	ND
Jul-98	ND	ND	ND	2.98	ND	500	ND	ND	ND	6.36	20.3	ND	ND
Jan-99	ND	ND	ND	3.27	ND	478	ND	ND	ND	6.25	18.2	ND	ND
Jul-99	ND	ND	ND	3.03	ND	466	ND	ND	ND	6.42	19.4	4.6	ND
Jan-00	ND	ND	ND	3.21	ND	450	ND	ND	ND	6.43	18.9	1.82	ND
Jul-00	ND	ND	ND	3.3	ND	433	ND	ND	ND	6.45	20.4	3	ND
Jan-01	ND	ND	ND	2.99	ND	452	ND	ND	ND	6.35	17.9	2.18	ND
Jul-01	ND	ND	ND	3.22	ND	490	ND	ND	ND	6.37	20	12.07	ND
Jan-02	ND	ND	ND	2.95	ND	432	ND	ND	ND	6.48	17.4	4.54	ND
Jul-02	ND	ND	ND	2.9	ND	470	ND	ND	ND	6.34	20	10.75	ND
Jan-03	ND	ND	ND	2.97	ND	457	ND	ND	ND	6.21	17.2	8.87	ND
Jul-03	ND	ND	ND	3.13	ND	485	ND	ND	ND	6.56	22.5	31.9	ND
Jan-04	ND	ND	ND	3.1	ND	445	ND	ND	ND	6.6	17.2	2.45	ND
Apr-04	ND	ND	ND	2.93	ND	477	ND	ND	ND	5.9	17.2	4.18	ND
Jul-04	ND	ND	ND	3.07	ND	445	ND	ND	ND	6.8	19.4	3.28	ND
Oct-04	ND	ND	ND	3.07	ND	421	ND	ND	ND	6.2	19.3	6.1	ND
Jan-05	ND	ND	ND	3.04	ND	736	ND	ND	ND	6.4	18.6	3.08	ND
Apr-05	ND	ND	ND	2.8	ND	374	ND	ND	ND	6.5	18.8	8.95	ND
Jul-05	ND	ND	ND	2.95	ND	382	ND	ND	ND	6.3	23.1	4.98	ND
Oct-05	ND	ND	ND	3.04	ND	384	ND	ND	ND	6.3	18.9	2.23	ND
Jan-06	ND	ND	ND	3.12	ND	353	ND	ND	ND	7.5	19.6	5.09	ND
May-06	ND	ND	ND	3	ND	342	ND	ND	ND	6.8	18	9.61	ND
Aug-06	<6.0	24.6	<1.0	3	2.47 J	463	<2.5	<0.06	1.48 J	6.2	21.2	19.9	9.72 J
Nov-06	<1.5	27.3 J	<1.0	3.04	<1.0	292	<2.5	<0.06	1.08 J	6.5	21	11.6	5.5 J
Feb-07	<1.5	25.7 J	<1.0	3.1	<1.0	330	<2.5	<0.06	<1.0	6.9	17	4.17	11 J
May-07	<1.5	27.5 J	<1.0	2.98	<1.0	396	<2.5	<0.06	1.11 J	6.3	22.5	2.57	2.17 J
Aug-07	<1.5	26.8 J	<1.0	3.04	<1.0	344	<2.5	<0.03	<1.0	6.7	22.3	16.5	<2.0
Nov-07	4 J	26.4 J	<1.0	2.92	<1.0	348	<2.5	<0.03	<1.0	6.5	20.4	3.77	5.01 J
Feb-08	<1.5	22.3 J	<1.0	2.94	4.43 J	347	<2.5	<0.03	<1.0	6.5	18.5	10.6	8.23 J
Apr-08	<1.5	23.1 J	<1.0	2.94	<2.0	327	3.39 J	<0.03	<1.0	6.8	18	10.8	5.55 J
Aug-08	<1.5	22.2 J	<1.0	3.12	5.86 J	408	<2.5	<0.03	<1.0	6.7	22.9	20	3.73 J
Nov-08	<1.5	24.7 J	<1.0	3.17	<2.0	344	<2.5	<0.067	<1.0	6.9	19.5	6.01	9.81 J
Feb-09	<1.5	18.3 J	<1.0	2.93	<2.0	320	<2.5	<0.067	<1.0	6.8	17.7	9.93	2.7 J
May-09	<1.5	21 J	<1.0	2.9	2.53 J	368	<2.5	<0.067	1.36 J	6.4	19.5	10.4	7.49 J
Jul-09	<1.6	21.7 J	<1.0	2.87	1.38 J	396	<3.3	<0.066	<1.5	6.2	23.9	4.14	4.74 J
Oct-09	<1.6	26.9 J	<1.0	2.78	14.9 J	382	<3.3	<0.066	<1.5	6.4	20.2	6.88	10.1 J

Historical Water Quality Data for MW020A

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Feb-10	<1.6	25 J	<1.0	2.78	2.13 J	281	<3.3	<0.066	<1.5	6.7	11.1	3	<3.3
May-10	<1.6	18.3 J	<1.0	2.77	11.9 J	348	<3.3	<0.066	1.97 J	6.3	18.1	9.32	4.45 J
Aug-10	<1.6	21.2 J	<1.0	2.96	12.2 J	403	<3.3	<0.066	<1.5	6.6	27.2	7.92	6.84 J
Nov-10	<1.6	20.9 J	<1.0	2.98	5.36 J	366	<3.3	<0.066	<1.5	6.6	20.4	10.9	<3.3
Feb-11	<1.7	17.1 J	<1.0	3.08	1.73 J	324	<3.3	<0.066	<1.5	6.6	17.1	8.71	11.3 J
May-11	<1.7	17.2 J	<1.0	3.08	2 J	383	<3.3	<0.066	<1.5	6.5	19.7	10.1	4.93 J
Aug-11	<1.7	25.8 J	<1.0	2.99	12.5 J	341	<3.3	<0.066	<1.5	6.9	23.4	11.4	<3.3
Nov-11	<1.7	23 J	<1.0	3.05	14.1 J	323	<3.3	<0.066	<1.5	6.7	19.4	13.4	<3.3
Mar-12	<4.0	<7.5	<0.6	3.3	<2.1	340	<1.9	<0.053	<10	6.69	19.5	4.4	<4.5
May-12	<4.0	<7.5	<0.6	3.3	<2.1	387	<1.9	<0.053	<10	6.45	20.6	12	<4.5
Aug-12	<4.0	<7.5	<0.6	3.3	<2.1	438	<1.9	<0.053	<10	6.27	26.3	ND	<4.5
Nov-12	<4.0	<7.5	<0.6	2.9	21	396	<1.9	<0.053	<10	6.52	22	3.6	<4.5
Feb-13	<4.0	<7.5	<0.6	3.2	<2.1	331	<1.9	<0.015	<10	6.97	16.5	4.9	<4.5
May-13	<4.0	<7.5	<0.6	3.3	<2.1	354	<1.9	<0.015	<10	6.8	18.7	5.5	<4.5
Aug-13	<4.0	<7.5	<0.6	3.1	<2.1	379	<1.9	<0.015	<10	6.28	23.3	4.6	<4.5
Oct-13	<4.0	<7.5	<0.6	3.4	<2.1	371	<1.9	<0.015	<10	6.31	21.6	4.3	<4.5
Jan-14	<4.0	<7.5	<0.6	3.2	<2.1	295	<1.9	<0.015	<10	6.92	15.6	9.8	<4.5
Apr-14	<4.0	<7.5	<0.6	3.4	<2.1	353	<1.9	<0.015	<10	6.59	22.7	6.1	<4.5
Jul-14	<4.0	<7.5	<0.6	3.3	<2.1	397	<1.9	<0.015	<10	6.46	24.3	3.9	37
Oct-14	<4.0	<7.5	<0.6	3.2	<2.1	407	<1.9	<0.015	<10	6.42	21.5	2.8	<4.5
Jan-15	<4.0	<7.5	<0.6	3.3	<2.1	295	<2.1	<0.015	<10	6.38	13.3	6.1	<4.5
May-15	<2.2	<1.9	<0.54	3.4	<0.72	311	<4.7	<0.028	<2.8	6.31	19.6	1.1	<2.2
Aug-15	<2.2	<1.9	<0.54	3.2	<0.72	433	<4.7	<0.028	<2.8	6.8	26.5	8	<2.2
Oct-15	<2.2	<1.9	<0.54	3.6	<0.72	361	<4.7	<0.028	<2.8	6.47	20	7.4	<2.2
Feb-16	<2.2	<1.9	<0.54	3.1	<0.72	349	<4.7	<0.028	<2.8	6.42	14.8	6.5	<2.2
Apr-16	<2.2	<1.9	<0.54	3.3	<0.72	420	<4.7	<0.028	<2.8	7.04	22.7	6.2	<2.2
Jul-16	<2.2	<1.9	<0.54	3.3	<0.72	260	<4.7	<0.028	<2.8	6.06	22.4	1.9	<2.2
Oct-16	<2.2	<1.9	<0.54	3.3	<0.72	210	<4.7	<0.028	<2.8	5.98	23.9	5.3	<2.2
Jan-17	<2.2	<1.9	<0.54	3.4	<0.72	140	<4.7	<0.028	<2.8	6.88	20.8	11	<2.2
Apr-17	<2.5	<3.1	<0.6	3.3	<1.3	314	<4.7	<0.028	<5	6.72	18.9	5.1	<2.5
Jul-17	<2.5	26	<0.6	3.4	<1.3	180	<4.7	<0.091	<5	6.13	24.3	2.9	<2.5

Notes:
Data is presented in units of µg/L unless otherwise noted
ND = Non-detect
J = Indicates value is between the method detection limit and practical quantitation limit and is an estimated concentration
Value following "<" represents the method detection limit

Historical Water Quality Data for MW022TR

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Apr-94	ND	ND	ND	4	ND	256	ND	ND	ND	7.75	18	1.35	ND
Jul-94	ND	ND	ND	3.46	ND	264	ND	ND	ND	6.83	20.8	ND	ND
Jan-95	ND	ND	ND	3.27	ND	260	ND	ND	ND	6.64	17.5	ND	ND
Jul-95	ND	ND	ND	3.02	ND	240	ND	ND	ND	6.33	19.7	ND	ND
Jan-96	ND	ND	ND	3.19	ND	222	ND	ND	ND	6.46	17.8	ND	ND
Jul-96	ND	ND	ND	3.63	ND	236	ND	ND	ND	6.43	19.3	ND	ND
Oct-96	ND	ND	ND		ND	287	ND	ND	ND	6.08	18	ND	ND
Jan-97	ND	ND	ND	3.72	ND	234	ND	ND	ND	6.58	17.6	ND	ND
Jul-97	ND	ND	ND	4.04	ND	255	ND	ND	ND	5.87	19	ND	ND
Oct-97	ND	ND	ND		ND	243	ND	ND	ND	6.7	18.5	ND	ND
Jan-98	ND	ND	ND	3.14	ND	290	ND	ND	ND	6	6.2	ND	ND
Jul-98	ND	ND	ND	3.32	ND	283	ND	ND	ND	6.43	19.4	ND	ND
Oct-98	ND	ND	ND	ND	ND	222	ND	ND	ND	5.78	18.1	ND	ND
Jan-99	ND	ND	ND	3.17	ND	266	ND	ND	ND	6.39	18.9	ND	ND
Jul-99	ND	ND	ND	3.41	ND	299	ND	ND	ND	6.45	18.7	ND	ND
Oct-99	ND	52.6	ND	ND	ND	223	ND	ND	ND	6.4	18	ND	ND
Jan-00	ND	ND	ND	3.26	ND	271	ND	ND	ND	6.35	18.5	0.75	ND
Jul-00	ND	ND	ND	3.38	ND	241	ND	ND	ND	6.23	20.2	1	ND
Jan-01	ND	ND	ND	3.26	ND	286	ND	ND	ND	6.25	18.1	0.51	ND
Jul-01	ND	ND	ND	3.32	ND	274	ND	ND	ND	6.37	20	1.29	ND
Jan-02	ND	ND	ND	3.1	ND	262	ND	ND	ND	6.54	17.5	0.9	ND
Jul-02	ND	ND	ND	3.14	ND	275	ND	ND	ND	6.1	20	0.08	ND
Jan-03	ND	ND	ND	3.19	ND	286	ND	ND	ND	6.2	16.9	1.5	ND
Jul-03	ND	ND	ND	3.22	ND	273	ND	ND	ND	6.52	20.6	2.67	ND
Jan-04	ND	ND	ND	3.25	ND	260	ND	ND	ND	6.5	17.2	1.66	ND
Apr-04	ND	ND	ND	3.06	ND	280	ND	ND	ND	6.1	17.5	2.33	ND
Jul-04	ND	ND	ND	3.12	ND	265	ND	ND	ND	6.4	19.2	0.7	ND
Nov-04	ND	50	ND	3.14	ND	257	ND	ND	ND	6.5	18.7	1.27	5.44
Jan-05	ND	101	ND	3.06	ND	275	ND	ND	ND	6.5	18.8	6.4	ND
Apr-05	ND	ND	ND	2.88	ND	252	ND	ND	ND	6.5	18.5	0.66	ND
Jul-05	ND	ND	ND	3.01	ND	255	ND	ND	ND	6.3	20	1.2	ND
Nov-05	ND	49.8	ND	3.15	ND	257	ND	ND	ND	6.7	20	2.62	ND
Jan-06	ND	ND	ND	3.03	ND	237	ND	ND	ND	6.5	19.4	0.85	ND
May-06	ND	ND	ND	3.02	ND	230	ND	ND	ND	6.5	18.5	2.17	ND
Aug-06	2.87 J	48.5 J	<1.0	3.07	<1.0	255	4.81 J	<0.06	<1.0	6.4	21.2	1.59	5.62 J
Dec-06	<6.0	47.8	<1.0	3.12	<1.0	264	<2.5	<0.06	<1.0	6.7	19.2	0.58	6.52 J
Feb-07	<1.5	49.4 J	<1.0	3.07	<1.0	192	<2.5	<0.06	<1.0	6.7	17.2	1.18	8.52 J
Apr-07	<1.5	46.3 J	<1.0	3.03	<1.0	235	<2.5	<0.06	<1.0	6.5	19.8	0.84	<2.0
Aug-07	<1.5	49.6 J	<1.0	3.01	<1.0	228	<2.5	<0.03	<1.0	6.3	21.3	1.82	<2.0
Nov-07	1.72 J	54.9	0.13 J	2.99	<1.0	205	<0.5	<0.03	0.653 J	6.6	16.9	2.54	<2.6
Feb-08	<1.5	49 J	<1.0	3.05	<2.0	200	<2.5	<0.03	<1.0	6.6	17.6	12.7	<2.0
Apr-08	<1.5	46.8 J	<1.0	2.91	<2.0	221	<2.5	<0.03	<1.0	6.5	18.9	8.04	3.83 J
Aug-08	<1.5	49.6 J	<1.0	3.1	<2.0	245	<2.5	<0.03	<1.0	6.5	20.7	5.6	3.37 J
Nov-08	<1.5	45.7 J	<1.0	3.11	<2.0	218	<2.5	<0.067	<1.0	6.9	18.8	7.99	7.75 J

Historical Water Quality Data for MW022TR

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Feb-09	2.05 J	48.6 J	<1.0	2.97	<2.0	228	<2.5	<0.067	<1.0	6.6	18.5	11.8	4.47 J
May-09	<1.5	47.4 J	<1.0	2.91	<2.0	224	<2.5	<0.067	<1.0	6.5	19.9	9.19	5.12 J
Jul-09	<1.6	46.7 J	<1.0	2.82	<1.0	238	<3.3	<0.066	<1.5	6.3	20.4	5.53	4.37 J
Oct-09	<1.6	49.7 J	<1.0	2.76	<1.0	212	<3.3	<0.066	<1.5	6.4	16.8	4.48	7.89 J
Feb-10	<1.6	49.7 J	<1.0	2.78	<1.0	208	<3.3	<0.066	<1.5	6.5	16.6	4.99	<3.3
May-10	<1.6	52.4 J	<1.0	2.84	<1.0	241	<3.3	<0.066	<1.5	6.3	20	8.77	<3.3
Aug-10	<1.6	48.9 J	<1.0	2.89	<1.0	227	<3.3	<0.066	<1.5	6.6	20.2	7.89	5.67 J
Nov-10	<1.6	48.9 J	<1.0	2.82	<1.0	218	<3.3	<0.066	<1.5	6.4	18.7	9.73	4.84 J
Feb-11	<1.7	49.8 J	<1.0	2.97	<1.0	202	<3.3	<0.066	<1.5	6.5	16.5	7.39	9.32 J
May-11	<1.7	47.3 J	<1.0	3.02	<1.0	252	<3.3	<0.066	<1.5	6.8	20.9	8.73	<3.3
Aug-11	<1.7	48.4 J	<1.0	2.81	<1.0	237	<3.3	<0.066	<1.5	6.6	20.6	12.9	<3.3
Nov-11	<1.7	49.6 J	<1.0	2.78	<1.0	203	<3.3	<0.066	<1.5	6.4	18.2	8.83	<3.3
Mar-12	<4	<7.5	<0.6	3.1	<2.1	210	<1.9	<0.053	<10	6.49	17.4	2	<4.5
May-12	<4	<7.5	<0.6	3	<2.1	257	<1.9	<0.053	<10	7.17	23	4.4	<4.5
Aug-12	<4	<7.5	<0.6	3.1	<2.1	247	<1.9	<0.053	<10	6.85	23.6	7.2	<4.5
Nov-12	<4	<7.5	<0.6	2.8	<2.1	334	<1.9	<0.053	<10	6.62	-	3.6	<4.5
Feb-13	<4	<7.5	<0.6	2.9	<2.1	225	<1.9	<0.015	<10	6.84	18.7	ND	<4.5
May-13	<4	<7.5	<0.6	3	<2.1	237	<1.9	<0.015	<10	6.75	20.1	ND	<4.5
Aug-13	<4	<7.5	<0.6	2.9	<2.1	279	<1.9	<0.015	<10	6.54	27	23	<4.5
Oct-13	<4.0	<7.5	<0.6	3.2	<2.1	236	<1.9	<0.015	<10	6.76	21.7	8	<4.5
Feb-14	<4.0	<7.5	<0.6	3	<2.1	202	<1.9	<0.015	<10	6.74	18.6	8.8	<4.5
Apr-14	<4.0	<7.5	<0.6	3.1	<2.1	227	<1.9	<0.015	<10	6.69	21.5	5.5	<4.5
Jul-14	<4.0	<7.5	<0.6	3.2	<2.1	240	<1.9	<0.015	<10	6.75	22.9	17	<4.5
Jan-15	<4.0	<7.5	<0.6	3	<2.1	199	<2.1	<0.015	<10	7.1	17.2	3.3	<4.5
May-15	<2.2	<1.9	<0.54	3.1	<0.72	193	<4.7	<0.028	<2.8	6.71	19.7	3.1	<2.2
Aug-15	<2.2	<1.9	<0.54	2.9	<0.72	240	<4.7	<0.028	<2.8	6.78	25.3	6.1	<2.2
Nov-15	<2.2	43	<0.54	3	<0.72	265	<4.7	<0.028	<2.8	6.59	20.7	4.1	<2.2
Jan-16	<2.2	<1.9	<0.54	2.9	<0.72	270	<4.7	<0.028	<2.8	6.24	18	5.1	<2.2
Apr-16	<2.2	<1.9	<0.54	2.9	<0.72	270	<4.7	<0.028	<2.8	6.89	20.8	3.1	<2.2
Aug-16	<2.2	<1.9	<0.54	3	<0.72	170	<4.7	<0.028	<2.8	6.02	22.1	2.5	<2.2
Oct-16	<2.2	<1.9	<0.54	2.9	<0.72	160	<4.7	<0.028	<2.8	6.38	21.5	2.9	<2.2
Jan-17	<2.2	<1.9	<0.54	3	<0.72	130	<4.7	<0.028	<2.8	6.7	18.6	11	<2.2
Apr-17	<2.5	45	<0.6	2.9	<1.3	160	<4.7	<0.028	<5	6.65	21.3	3.6	<2.5
Jul-17	<2.5	45	<0.6	3	<1.3	140	<4.7	<0.091	<5	6.72	20.1	2.8	<2.5

Notes:
Data is presented in units of µg/L unless otherwise noted
ND = Non-detect
J = Indicates value is between the method detection limit and practical quantitation limit and is an estimated concentration
Value following "<" represents the method detection limit

Historical Water Quality Data for MW023ATR

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
May-94	ND	ND	ND	6	ND	234	ND	ND	ND	6.67	18.1	1.98	ND
Oct-94	ND	ND	ND	2.22	ND	224	ND	ND	ND	6.34	17.8	1.96	ND
Apr-95	ND	ND	ND	2.34	ND	193	ND	ND	ND	6.74	17.2	0.92	ND
Oct-95	ND	ND	ND	2.68	ND	221	ND	ND	ND	6.53	18	9.68	ND
Apr-96	ND	ND	ND	2.45	ND	242	ND	ND	ND	6.44	17.6	ND	ND
Oct-96	ND	ND	ND	2.49	ND	234	ND	ND	ND	6.44	18.5	2.7	ND
Apr-97	ND	ND	ND	2.85	ND	223	ND	ND	ND	6.29	17.8	2.3	ND
Oct-97	ND	ND	ND	2.59	ND	229	ND	ND	ND	6.29	20.1	2.39	ND
Apr-98	ND	ND	ND	2.32	ND	229	ND	ND	ND	6.42	19.5	3.34	ND
Oct-98	ND	ND	ND	2.26	ND	230	ND	ND	ND	6.13	19.1	1.8	ND
Apr-99	ND	ND	ND	2.7	ND	240	ND	ND	ND	5.9	19	1.6	ND
Oct-99	ND	ND	ND	2.2	ND	255	ND	ND	ND	6.62	18.9	1.44	ND
Apr-00	ND	ND	ND	2.03	ND	244	ND	ND	ND	6.6	18.3	2.68	ND
Oct-00	ND	ND	ND	2.2	ND	249	ND	ND	ND	6.45	18.5	1.26	ND
Apr-01	ND	ND	ND	2.33	ND	215	ND	ND	ND	6.14	19.6	1.14	ND
Oct-01	ND	ND	ND	2.11	ND	244	ND	ND	ND	6.51	20	1.23	ND
Apr-02	ND	ND	ND	2.54	ND	182	ND	ND	ND	6.35	18.5	1.24	ND
Oct-02	ND	ND	ND	2.34	ND	223	ND	ND	ND	6.51	18.5	4.53	ND
Apr-03	ND	ND	ND	2.37	ND	171	ND	ND	ND	6.3	18	0.85	ND
Oct-03	ND	ND	ND	2.4	ND	228	ND	ND	ND	6.38	17.8	1.87	ND
Jan-04	ND	ND	ND	2.45	ND	219	ND	ND	ND	6.6	17.2	1.3	ND
Apr-04	ND	ND	ND	2.26	ND	240	ND	ND	ND	6.2	17.5	3.45	ND
Jul-04	ND	ND	ND	2.39	ND	249	ND	ND	ND	6.6	19.9	2.52	ND
Oct-04	ND	ND	ND	2.4	ND	233	ND	ND	ND	6.4	19.8	1.2	ND
Jan-05	11.1	ND	ND	2.33	ND	230	ND	ND	ND	6.5	19	3.44	ND
Apr-05	ND	ND	ND	2.22	ND	221	ND	ND	ND	6.4	19.3	1.47	ND
Jul-05	ND	ND	ND	2.35	ND	216	ND	ND	ND	6.3	20.2	1.33	ND
Oct-05	ND	ND	ND	2.41	ND	214	ND	ND	ND	6.4	18.5	0.94	ND
Jan-06	ND	ND	ND	2.45	ND	207	ND	ND	ND	6.5	19.6	0.84	ND
May-06	ND	ND	ND	2.49	ND	205	ND	ND	ND	6.5	18.2	2.63	ND
Aug-06	1.56 J	26.2 J	<1.0	2.48	<1.0	220	5.42 J	<0.06	<1.0	6.4	22	1.03	6.47 J
Nov-06	<1.5	28.3 J	<1.0	2.51	<1.0	172	<2.5	<0.06	1.39 J	6.5	20.9	1.35	5.69 J
Feb-07	<1.5	29.2 J	<1.0	2.59	<1.0	173	<2.5	<0.06	1.44 J	6.6	16.7	3.11	8.77 J
May-07	<1.5	87.3 J	<1.0	2.53	<1.0	209	<2.5	<0.06	1.39 J	6.4	20.4	1.11	2.58 J
Aug-07	<1.5	27.5 J	<1.0	2.54	<1.0	217	<2.5	<0.03	1.27 J	6.2	21.1	0.82	3.15 J
Nov-07	<1.5	29.3 J	<1.0	2.58	<1.0	204	<2.5	<0.03	<1.0	6.8	21.8	4.02	4.87 J
Feb-08	<1.5	29.5 J	<1.0	2.59	<2.0	195	<2.5	<0.03	1.2 J	6.5	17.7	9.83	2.08 J
Apr-08	<1.5	29 J	<1.0	2.54	<2.0	203	<2.5	<0.03	<1.0	6.3	18.8	4.95	4.33 J
Aug-08	<1.5	30 J	<1.0	2.74	<2.0	228	<2.5	<0.03	1.31 J	6.6	21.2	6.11	4.12 J
Nov-08	<1.5	26.3 J	<1.0	2.79	<2.0	207	<2.5	<0.067	<1.0	7.3	19.5	8.41	7.42 J
Feb-09	3.29 J	28.8 J	<1.0	2.67	<2.0	211	<2.5	<0.067	2.47 J	6.4	18.5	NS	6.02 J
May-09	<1.5	28.8 J	<1.0	2.66	<2.0	222	<2.5	<0.067	1.78 J	6.4	21.1	10.1	5.99 J
Jul-09	<1.6	28.5 J	<1.0	2.61	<1.0	224	<3.3	<0.066	1.94 J	6.2	20.4	4.3	4.55 J
Oct-09	<1.6	28.9 J	<1.0	2.53	<1.0	231	<3.3	<0.066	1.52 J	6.4	19.8	3.72	8.16 J

Historical Water Quality Data for MW023ATR

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Feb-10	<1.6	29.8 J	<1.0	2.57	<1.0	201	<3.3	<0.066	2.11 J	6.5	16.8	1.49	<3.3
May-10	<1.6	31.5 J	<1.0	2.66	<1.0	217	<3.3	<0.066	2.31 J	6	19.6	7.91	<3.3
Aug-10	<1.6	30.9 J	<1.0	2.7	<1.0	226	<3.3	<0.066	<1.5	6.7	21.1	7.94	6.53 J
Dec-10	<1.6	30.4	<0.11	2.8	<2.0	218	<0.5	<0.066	2.54	6.1	17.9	9.31	<3.3
Feb-11	<1.7	31 J	<1.0	2.81	<1.0	199	<3.3	<0.066	<1.5	6.3	17.2	7.42	9.76 J
May-11	<1.7	29.1 J	<1.0	2.88	<1.0	234	<3.3	<0.066	2.24 J	6.7	20.3	9.27	<3.3
Aug-11	<1.7	30.4 J	<1.0	2.68	<1.0	244	7.6 J	<0.066	1.82 J	6.5	21.2	13.7	<3.3
Nov-11	<1.7	30.1J	<1.0	2.69	<1.0	210	<3.3	<0.066	1.9 J	6.5	18.5	10.9	<3.3
Mar-12	<4.0	<7.5	<0.6	3	<2.1	210	<1.9	<0.053	<10	6.63	17.5	1.8	<4.5
May-12	<4.0	<7.5	<0.6	2.8	<2.1	248	<1.9	<0.053	<10	6.46	21.6	8.7	<4.5
Aug-12	<4.0	<7.5	<0.6	2.8	<2.1	272	<1.9	<0.053	<10	6.2	24.4	17	<4.5
Nov-12	<4.0	<7.5	<0.6	2.6	<2.1	244	<1.9	<0.053	<10	6.29	20.4	1.9	<4.5
Feb-13	<4.0	<7.5	<0.6	2.8	<2.1	235	<1.9	<0.015	<10	6.88	19.3	5.1	<4.5
May-13	<4.0	<7.5	<0.6	2.9	<2.1	267	<1.9	<0.015	<10	6.39	22.4	1.1	<4.5
Aug-13	<4.0	<7.5	<0.6	2.9	<2.1	247	<1.9	<0.015	<10	6.38	20.5	4.2	<4.5
Oct-13	<4.0	<7.5	<0.6	3	<2.1	254	<1.9	<0.015	<10	6.34	23.4	4.2	<4.5
Feb-14	<4.0	<7.5	<0.6	2.9	<2.1	219	<1.9	<0.015	<10	6.13	17.2	ND	<4.5
Apr-14	<4.0	<7.5	<0.6	3.1	<2.1	241	<1.9	<0.015	<10	6.26	22.3	1.1	<4.5
Jul-14	<4.0	<7.5	<0.6	3.1	<2.1	263	<1.9	<0.015	<10	6.38	22.9	17	<4.5
Oct-14	<4.0	<7.5	<0.6	2.9	<2.1	268	<1.9	<0.015	<10	6.36	25.7	8	<4.5
Feb-15	<4.0	<7.5	<0.6	3	<2.1	234	<2.1	<0.015	<10	6.47	17.8	11	<4.5
May-15	<2.2	<1.9	<0.54	3.1	<0.72	206	<4.7	<0.028	<2.8	6.48	18.9	1	<2.2
Aug-15	<2.2	<1.9	<0.54	2.9	<0.72	277	<4.7	<0.028	<2.8	6.1	24.8	3.1	<2.2
Oct-15	<2.2	<1.9	<0.54	3.2	<0.72	243	<4.7	<0.028	<2.8	6.8	21.2	6.4	<2.2
Jan-16	<2.2	<1.9	<0.54	3.1	<0.72	256	<4.7	<0.028	<2.8	6.37	17	2.2	<2.2
May-16	<2.2	<1.9	<0.54	3.2	<0.72	300	<4.7	<0.028	<2.8	6.51	20.8	1.7	<2.2
Aug-16	<2.2	<1.9	<0.54	3.2	<0.72	180	<4.7	<0.028	<2.8	5.7	22.3	3.3	<2.2
Oct-16	<2.2	<1.9	<0.54	3	<0.72	170	<4.7	<0.028	<2.8	6.09	20.2	2.5	<2.2
Jan-17	<2.2	<1.9	<0.54	3.2	<0.72	140	<4.7	<0.028	<2.8	6.21	18.8	2.6	<2.2
Apr-17	<2.5	33	<0.6	3.1	<1.3	213	<4.7	<0.028	<5	6.6	19	2	<2.5
Jul-17	<2.5	33	<0.6	3.2	<1.3	160	<4.7	<0.091	<5	6.2	21.8	2	<2.5

Notes:
Data is presented in units of µg/L unless otherwise noted
ND = Non-detect
J = Indicates value is between the method detection limit and practical quantitation limit and is an estimated concentration
Value following "<" represents the method detection limit

Historical Water Quality Data for MW024TR

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Jul-94	ND	ND	ND	3.8	23.3	438	ND	ND	ND	7.24	20.9	44.1	82.7
Oct-94	ND	ND	ND	3.66	ND	449	ND	ND	ND	7.07	19.8	66	48.8
Apr-95	ND	ND	ND	4.04	ND	385	ND	ND	ND	6.77	22.7	87.8	ND
Oct-95	ND	ND	ND	4.66	ND	415	ND	ND	ND	6.21	18.6	85.6	ND
Apr-96	ND	32.1	ND	4.28	ND	423	ND	ND	ND	6.2	18.7	42.5	25.3
Oct-96	ND	ND	ND	3.9	ND	432	ND	ND	ND	6.18	20.2	73.3	ND
Apr-97	ND	ND	ND	6.07	ND	401	ND	ND	ND	6.01	18.1	46	ND
Oct-97	ND	ND	ND	4.3	ND	408	ND	ND	ND	6	19.6	15.5	ND
Apr-98	ND	ND	ND	4.34	ND	422	ND	ND	ND	5.66	19.6	5.57	ND
Oct-98	ND	ND	ND	4.18	ND	415	ND	ND	ND	5.79	19.2	4.84	ND
Apr-99	ND	ND	ND	4.9	ND	410	ND	ND	ND	5.9	19	14	ND
Oct-99	ND	ND	ND	4.19	ND	450	ND	ND	ND	6.36	19.4	11.2	ND
Apr-00	ND	ND	ND	3.84	ND	404	ND	ND	ND	5.96	18.3	18.38	ND
Oct-00	ND	ND	ND	3.78	ND	388	ND	ND	ND	6	18	19.5	ND
Apr-01	ND	ND	ND	3.85	ND	400	ND	ND	ND	6.17	20	18.75	ND
Oct-01	ND	ND	ND	3.27	ND	389	ND	ND	ND	6.01	20.3	10.99	ND
Apr-02	ND	ND	ND	3.95	ND	342	ND	ND	ND	5.98	21.1	7.14	ND
Oct-02	ND	ND	ND	3.99	ND	401	ND	ND	ND	6.23	18.3	11.5	ND
Apr-03	ND	ND	ND	3.93	ND	385	ND	ND	ND	5.97	20	5.58	ND
Oct-03	ND	ND	ND	4.06	ND	393	ND	ND	ND	6.02	20	10	ND
Jan-04	ND	ND	ND	4.13	ND	389	ND	ND	ND	6.1	17.2	11.55	ND
Apr-04	ND	ND	ND	3.97	ND	388	ND	ND	ND	6.1	18.3	19.8	ND
Jul-04	ND	ND	ND	4.01	ND	451	ND	ND	ND	6.6	20.7	16.51	ND
Oct-04	ND	ND	ND	4.08	ND	361	ND	ND	ND	5.8	17.9	48	ND
Jan-05	ND	ND	ND	4.08	ND	368	ND	ND	ND	6	19.9	16.15	ND
Apr-05	ND	ND	ND	3.78	ND	361	ND	ND	ND	6.1	20.2	20.4	ND
Jul-05	ND	ND	ND	3.9	ND	360	ND	ND	ND	5.9	24.1	5.21	ND
Oct-05	ND	ND	ND	4.01	ND	342	ND	ND	ND	6	18.2	11.9	ND
Jan-06	ND	ND	ND	3.97	ND	338	ND	ND	ND	6.2	20.2	6.2	ND
May-06	ND	ND	ND	3.94	ND	317	ND	ND	ND	6	19.9	6.83	ND
Aug-06	3.36 J	16.8 J	<1.0	4.01	1.61 J	323	4.76 J	<0.06	6.56 J	6.2	20.6	4.84	11.1 J
Nov-06	<1.5	11.9 J	<1.0	4	2.67 J	261	<2.5	<0.06	7.95 J	6.4	19.4	15.3	12.4 J
Feb-07	<1.5	10.9 J	<1.0	3.98	<1.0	302	<2.5	<0.06	6.41 J	6.2	17.9	2.33	12.6 J
Apr-07	<1.5	13.5 J	<1.0	3.94	<1.0	300	<2.5	<0.06	7.15 J	6.1	21	3.12	3.58 J
Aug-07	<1.5	12.3 J	<1.0	3.95	1.95 J	308	<2.5	<0.03	7.74 J	5.8	22.6	37.1	2.48 J
Nov-07	<1.5	10.5 J	<1.0	3.96	1.91 J	313	<2.5	<0.03	6.29 J	6.3	20.1	24.2	6.66 J
Feb-08	<1.5	9.32 J	<1.0	4	<2.0	314	<2.5	<0.03	6.82 J	6.2	18.2	21.4	13.1 J
Apr-08	<1.5	15.8 J	<1.0	3.91	<2.0	326	<2.5	<0.03	5.41 J	6.4	19.5	10.5	8.69 J
Aug-08	<1.5	16.2 J	<1.0	4.24	<2.0	354	<2.5	<0.03	5.08 J	6.4	24.6	15.82	6.97 J
Nov-08	3.03 J	13.1	0.508 J	3.97	<1.5	303	<0.5	<0.067	7.99	6.8	20.2	12.6	15.2
Feb-09	<1.5	11 J	<1.0	4.13	<2.0	255	<2.5	<0.067	3.93 J	6.1	17.6	12.7	3 J
May-09	<1.5	11.6 J	<1.0	4.3	<2.0	246	<2.5	<0.067	5.76 J	6.2	20.3	13.9	8.5 J
Jul-09	<1.6	15.1 J	<1.0	4	<1.0	318	<3.3	<0.066	6.01 J	5.9	21.6	2.98	6.22 J
Oct-09	<1.6	14.4 J	<1.0	4.09	<1.0	297	<3.3	<0.066	2.96 J	6.3	21.1	5.07	9.71 J

Historical Water Quality Data for MW024TR

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Feb-10	<1.6	13.8 J	<1.0	4.04	1.83 J	259	<3.3	<0.066	6.89 J	6.3	17.5	3.76	5.74 J
May-10	<1.6	17.5 J	<1.0	4.1	<1.0	294	5.01 J	<0.066	7.52 J	6.1	20.3	8.97	9.14 J
Aug-10	<1.6	13.3 J	<1.0	4.31	1.54 J	279	<3.3	<0.066	6.24 J	6.4	21.5	9.37	9.07 J
Nov-10	<1.6	11.8 J	<1.0	4.2	1.06 J	259	<3.3	<0.066	6.62 J	6.2	19.4	11.2	<3.3
Feb-11	<1.7	12 J	<1.0	4.48	<1.0	228	<3.3	<0.066	4.74 J	6.2	17.1	10.1	14.5 J
May-11	<1.7	18.8 J	<1.0	4.6	1.74 J	242	<3.3	<0.066	6.31 J	6.4	20.8	8.9	3.91 J
Aug-11	<1.7	17.8 J	<1.0	4.47	2.08 J	246	<3.3	<0.066	5.58 J	6.4	22.3	15.2	<3.3
Nov-11	<1.7	14.6 J	<1.0	4.51	<1.0	238	<3.3	<0.066	4.71 J	6.2	18.7	12.7	<3.3
Mar-12	<4.0	<7.5	<0.6	4.9	<2.1	269	<1.9	<0.053	<10	6.65	18.7	4	<4.5
May-12	<4.0	<7.5	<0.6	4.6	<2.1	313	<1.9	<0.053	<10	6.08	22.8	30	<4.5
Aug-12	<4.0	<7.5	<0.6	4.9	<2.1	344	<1.9	<0.053	<10	5.96	22.1	31	<4.5
Nov-12	<4.0	<7.5	<0.6	4.6	<2.1	303	<1.9	<0.053	<10	6.24	19.6	20	<4.5
Feb-13	<4.0	<7.5	<0.6	4.8	<2.1	278	<1.9	<0.015	<10	6.62	19	4.6	<4.5
May-13	<4.0	<7.5	<0.6	5	<2.1	299	<1.9	<0.015	<10	6.44	19.2	26	<4.5
Aug-13	<4.0	<7.5	<0.6	5	<2.1	316	<1.9	<0.015	<10	6.2	23.7	9.2	<4.5
Oct-13	<4.0	<7.5	<0.6	5.6	<2.1	294	<1.9	<0.015	<10	6.06	22.5	8.9	<4.5
Feb-14	<4.0	<7.5	<0.6	5	<2.1	255	<1.9	<0.015	<10	6.05	15.4	20	<4.5
Apr-14	<4.0	<7.5	<0.6	5.4	<2.1	304	<1.9	<0.015	<10	5.89	24.7	9.5	<4.5
Jul-14	<4.0	<7.5	<0.6	5.7	<2.1	256	<1.9	<0.015	<10	6.16	24.3	9.2	<4.5
Oct-14	<4.0	<7.5	<0.6	5.1	<2.1	282	<1.9	<0.015	<10	6.18	19.5	12	<4.5
Feb-15	<4.0	<7.5	<0.6	5	<2.1	248	<2.1	<0.015	<10	6.79	17.1	30	<4.5
Apr-15	<2.2	<1.9	<0.54	5.2	<0.72	275	<4.7	<0.028	<2.8	6.15	21.4	7.6	<2.2
Aug-15	<2.2	<1.9	<0.54	5	<0.72	310	<4.7	<0.028	<2.8	6	24.6	21.4	<2.2
Oct-15	<2.2	<1.9	<0.54	4.9	<0.72	300	<4.7	<0.028	<2.8	6.12	18.9	8.7	<2.2
Jan-16	<2.2	<1.9	<0.54	5	<0.72	287	<4.7	<0.028	<2.8	6.97	18.2	29	<2.2
Apr-16	<2.2	<1.9	<0.54	5.2	<0.72	330	<4.7	<0.028	<2.8	5.89	22.6	38	<2.2
Aug-16	<2.2	<1.9	<0.54	5.6	<0.72	180	<4.7	<0.028	<2.8	6.08	22.6	18	<2.2
Oct-16	<2.2	<1.9	<0.54	5.3	<0.72	160	<4.7	<0.028	<2.8	5.66	22	20	<2.2
Feb-17	<2.2	<1.9	<0.54	5.4	<0.72	150	<4.7	<0.028	<2.8	5.69	21.7	11	<2.2
Apr-17	<2.5	<3.1	<0.6	5.1	<1.3	238	<4.7	<0.028	<5	6.47	23.4	19	<2.5
Jul-17	<2.5	<3.1	<0.6	5.3	<1.3	150	<4.7	<0.091	<5	5.93	23.9	16	<2.5

Notes:
Data is presented in units of µg/L unless otherwise noted
ND = Non-detect
J = Indicates value is between the method detection limit and practical quantitation limit and is an estimated concentration
Value following "<" represents the method detection limit

Historical Water Quality Data for MW026ATR

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Jul-94	ND	113	ND	386	92.4	726	ND	ND	74.1	7.82	20.7	9.8	76.6
Sep-94	16	157	ND		138	512	25.5	1.45	140	6.75	20.7	67.6	137
Jan-95	ND	ND	ND	4.22	37.2	619	ND	ND	72.5	6.57	16.3	118	26.5
Jul-95	ND	ND	ND	3.7	33.5	615	ND	ND	ND	6.36	23.3	198	33.8
Jan-96	ND	ND	ND	3.8	ND	540	ND	ND	ND	6.45	17.4	33.2	ND
Jul-96	ND	ND	ND	5.34	24.7	622	ND	ND	ND	6.26	20.4	59.3	34.7
Jan-97	ND	103	ND	4.11	49.2	562	ND	ND	64.4	6.48	17.8	66.4	70.4
Jul-97	ND	ND	ND	4.89	ND	510	ND	ND	ND	6.08	19.5	79.3	68.1
Jan-98	ND	ND	ND	4.22	ND	673	ND	0.27	ND	5.8	18.5	38.2	ND
Jul-98	ND	ND	ND	ND	21.7	519	ND	ND	ND	5.99	20.1	47.8	ND
Jan-99	ND	ND	ND	3.5	52.5	464	ND	ND	ND	6.08	19.2	43	35
Jul-99	ND	ND	ND	3.65	ND	569	ND	ND	ND	6.6	19.6	29.1	ND
Jan-00	ND	ND	ND	3.96	ND	551	69.6	ND	ND	6.3	18.9	46.9	48
Jul-00	ND	ND	ND	4.31	ND	555	ND	ND	ND	5.94	20.7	31.5	20.2
Jan-01	ND	ND	ND	5.38	54.9	529	32	ND	ND	5.82	18.8	56	27.1
Jul-01	ND	ND	ND	3.9	ND	599	ND	ND	ND	6.1	20.2	37.3	ND
Jan-02	ND	ND	ND	3.95	ND	523	ND	ND	ND	6.12	19	60.2	ND
Jul-02	ND	ND	ND	3.73	20.8	489	ND	ND	ND	5.93	21.1	49	ND
Jan-03	ND	ND	ND	4.09	ND	567	ND	ND	ND	6	15.6	59.8	ND
Jul-03	ND	ND	ND	4.87	ND	542	ND	ND	ND	6.07	20	32	ND
Jan-04	ND	ND	ND	4.48	ND	550	ND	ND	ND	6.1	17.2	86.6	ND
Apr-04	ND	ND	ND	4.18	ND	552	ND	ND	ND	6.2	18.3	45.4	ND
Jul-04	ND	ND	ND	4.4	ND	631	ND	ND	ND	6.4	20.2	13.98	ND
Oct-04	ND	ND	ND	4.2	ND	456	ND	ND	ND	6	18.9	86.5	ND
Jan-05	ND	ND	ND	4.33	ND	528	ND	ND	ND	6	19.9	43.3	ND
Apr-05	ND	ND	ND	4.15	ND	497	ND	ND	ND	6.1	19.6	15.7	ND
Jul-05	ND	ND	ND	4.11	ND	475	ND	ND	ND	5.9	21.9	>1000	20.9
Oct-05	ND	ND	ND	4.25	ND	455	ND	ND	ND	6	18.4	28.3	ND
Jan-06	ND	ND	ND	4.4	ND	455	ND	ND	ND	5.9	19.9	49	ND
May-06	ND	ND	ND	4.31	24.9	465	ND	ND	ND	6	19.8	23.3	23.9
Aug-06	<1.5	75.4 J	<1.0	4.44	3.97 J	464	4.68 J	<0.06	10.7 J	6.1	21.1	37.3	13.1 J
Nov-06	<1.5	24.4 J	<1.0	4.37	7.88 J	375	<2.5	<0.06	16.3 J	6.2	19.6	21.7	15.8 J
Feb-07	<1.5	40.9 J	1.01 J	4.4	7.25 J	447	4.13 J	<0.06	15 J	6	17.9	20.7	19.2 J
Apr-07	<1.5	31.6 J	<1.0	4.33	1.05 J	501	<2.5	<0.06	13.3 J	6	21.3	8.23	5.09 J
Aug-07	<1.5	25.8 J	<1.0	4.53	5.97 J	486	<2.5	<0.03	14.3 J	5.9	22.5	53.4	5.98 J
Nov-07	<1.5	32.1 J	<1.0	4.43	7.62 J	470	<2.5	<0.03	13.2 J	6.1	19.7	43.7	12.9 J
Feb-08	<1.5	24.6 J	<1.0	4.4	5.15 J	437	<2.5	<0.03	13.5 J	6.1	19	22.1	23.2
Apr-08	<1.5	26.8 J	<1.0	4.74	6.02 J	429	<2.5	<0.03	13.1 J	6.1	19.4	25.9	14.7 J
Aug-08	<1.5	22.5 J	<1.0	4.41	2.66 J	517	<2.5	<0.03	14.2 J	6	23.4	22.51	12 J
Nov-08	2.11 J	26.7 J	<1.0	4.52	<2.0	471	<2.5	<0.067	13.8 J	6.7	20.2	15.82	15.1 J
Feb-09	<1.5	25.5 J	<1.0	4.56	<2.0	444	<2.5	<0.067	11 J	5.8	18.1	15.6	7.36 J
May-09	<1.5	28 J	<1.0	4.51	<2.0	449	<2.5	<0.067	12.8 J	6	20.3	9.81	11.1 J
Jul-09	<1.6	30.2 J	<1.0	4.42	2.97 J	499	<3.3	<0.066	12.7 J	5.8	22.8	5.31	11.5 J
Oct-09	<1.6	16.2 J	<1.0	4.41	1.11 J	483	<3.3	<0.066	11 J	6	21.3	5.91	17.5 J

Historical Water Quality Data for MW026ATR

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Feb-10	<1.6	32.3 J	<1.0	4.45	5.19 J	450	<3.3	<0.066	14.5 J	6.1	18.2	29.1	8.62 J
May-10	<1.6	28.4 J	<1.0	4.46	2.74 J	488	<3.3	<0.066	12.5 J	5.8	19.9	17.8	12.4 J
Aug-10	<1.6	26.3 J	<1.0	4.6	<1.0	461	<3.3	<0.066	10.9 J	6.2	21.5	8.91	14.1 J
Nov-10	<1.6	29.2 J	<1.0	4.6	2.81 J	432	<3.3	<0.066	16.8 J	5.8	18.5	15.7	7.26 J
Feb-11	<1.7	27.9 J	<1.0	4.85	3.19 J	392	<3.3	<0.066	10.4 J	6	17	19.8	21.9
May-11	1.79 J	26.2 J	<1.0	4.95	2.81 J	470	<3.3	<0.066	10.9 J	6.2	21.6	12.32	8.65 J
Aug-11	<1.7	29.6 J	<1.0	4.75	1.98 J	430	<3.3	<0.066	10.8 J	6.3	22.5	17.84	5 J
Nov-11	<1.7	26.2 J	<1.0	4.76	2.81 J	419	<3.3	<0.066	11.7 J	5.9	18.8	20.8	3.36 J
Mar-12	<4.0	<7.5	<0.6	6.2	<2.1	406	<1.9	<0.053	<10	6.3	18.4	34	<4.5
May-12	<4.0	<7.5	<0.6	5.1	24	485	<1.9	<0.053	<10	6.03	24.2	79	26
Aug-12	15	110	<0.6	5.1	120	547	36	<0.053	76	5.72	25.2	91	99
Nov-12	<4.0	<7.5	<0.6	4.8	<2.1	493	<1.9	<0.053	<10	5.92	19.9	33	<4.5
Feb-13	<4.0	<7.5	<0.6	5	<2.1	511	<1.9	<0.015	<10	6.56	19.3	25	<4.5
May-13	<4.0	<7.5	<0.6	5.3	<2.1	506	<1.9	<0.015	<10	5.95	22.3	30	21
Aug-13	<4.0	<7.5	<0.6	5.5	<2.1	502	<1.9	<0.015	<10	5.7	23.7	35	30
Oct-13	<4.0	<7.5	<0.6	5.6	<2.1	482	<1.9	<0.015	<10	5.86	22.6	9.2	<4.5
Feb-14	<4.0	<7.5	<0.6	5.4	<2.1	397	<1.9	<0.015	<10	5.85	14.2	29	<4.5
Apr-14	<4.0	<7.5	<0.6	5.4	<2.1	535	<1.9	<0.015	<10	5.76	26	9.9	<4.5
Jul-14	<4.0	<7.5	<0.6	5.5	<2.1	497	<1.9	<0.015	<10	5.97	21.4	43	<4.5
Oct-14	<4.0	<7.5	<0.6	5.4	<2.1	221	<1.9	<0.015	<10	5.93	17.1	110	<4.5
Feb-15	<4.0	<7.5	<0.6	5.4	<2.1	440	<2.1	<0.015	<10	7.11	16.9	20	<4.5
Apr-15	<2.2	<1.9	<0.54	5.6	<0.72	431	<4.7	<0.028	<2.8	5.97	19.8	7.1	<2.2
Aug-15	<2.2	<1.9	<0.54	5.7	<0.72	542	<4.7	<0.028	<2.8	6.09	27.2	9.3	<2.2
Oct-15	<2.2	<1.9	<0.54	5.4	<0.72	499	<4.7	<0.028	<2.8	5.85	18.2	20	<2.2
Feb-16	<2.2	<1.9	<0.54	5.5	21	414	<4.7	<0.028	<2.8	5.95	20.2	70	23
Apr-16	<2.2	<1.9	<0.54	5.4	<0.72	550	<4.7	<0.028	<2.8	5.69	25.1	38	<2.2
Aug-16	<2.2	<1.9	<0.54	5.7	<0.72	280	<4.7	<0.028	<2.8	5.74	22.9	13	<2.2
Oct-16	<2.2	<1.9	<0.54	5.4	<0.72	260	<4.7	<0.028	<2.8	5.67	22.4	8.8	<2.2
Feb-17	<2.2	<1.9	<0.54	5.6	<0.72	200	<4.7	<0.028	<2.8	5.45	21.5	11	<2.2
Apr-17	<2.5	<3.1	<0.6	5.5	<3.1	455	<4.7	<0.028	<5	5.92	20.1	13	<2.5
Jul-17	<2.5	34	<0.6	5.6	24	190	<4.7	<0.091	<5	6.73	21.9	25	<2.5

Notes:
Data is presented in units of µg/L unless otherwise noted
ND = Non-detect
J = Indicates value is between the method detection limit and practical quantitation limit and is an estimated concentration
Value following "<" represents the method detection limit

Historical Water Quality Data for MW027BTR

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
May-94	ND	ND	ND	4	ND	360	ND	ND	ND	7.47	18.9	12.18	76
Oct-94	ND	ND	ND	2.25	ND	365	ND	ND	ND	6.77	19.9	9.82	27.9
Apr-95	ND	ND	ND	2.32	ND	299	ND	ND	ND	6.78	20.1	35.5	ND
Oct-95	ND	ND	ND	2.6	ND	231	ND	ND	ND	6.68	17.7	27.3	ND
Apr-96	ND	ND	ND	2.55	ND	335	ND	ND	ND	6.36	18.2	22.6	ND
Oct-96	ND	ND	ND	2.47	ND	327	ND	ND	ND	6.29	17.7	7.9	ND
Apr-97	ND	ND	ND	2.73	ND	318	ND	ND	ND	5.99	18.4	6.81	ND
Oct-97	ND	ND	ND	2.61	ND	330	ND	ND	ND	6.2	19.5	3.85	ND
Apr-98	ND	ND	ND	2.34	ND	330	ND	ND	ND	6.32	19.4	4	ND
Oct-98	ND	ND	ND	2.19	ND	226	ND	ND	ND	6.45	19.8	40.5	ND
Apr-99	ND	ND	ND	2.7	ND	330	ND	ND	ND	5.9	18	18	ND
Oct-99	ND	ND	ND	2.28	ND	343	ND	ND	ND	6.14	19.7	3.08	ND
Apr-00	ND	ND	ND	2.02	ND	325	ND	ND	ND	6.17	18.7	12.24	ND
Oct-00	ND	ND	ND	2.19	ND	378	ND	ND	ND	6.17	18.7	5.64	ND
Apr-01	ND	ND	ND	2.12	ND	304	ND	ND	ND	6	19.6	5.95	ND
Oct-01	ND	ND	ND	2.09	ND	346	ND	ND	ND	6.23	19.3	11.7	ND
Apr-02	ND	ND	ND	2.19	ND	292	ND	ND	ND	6.43	20	10.73	ND
Oct-02	ND	ND	ND	2.21	ND	300	ND	ND	ND	6.06	17.8	20.9	ND
Apr-03	ND	ND	ND	2.2	ND	240	ND	ND	ND	6.41	18	23.2	ND
Oct-03	ND	ND	ND	2.21	ND	359	ND	NS	ND	6.31	20.6	5.84	ND
Jan-04	ND	ND	ND	2.27	ND	380	ND	ND	ND	6.7	17.5	7.99	ND
Apr-04	ND	ND	ND	2.08	ND	370	ND	ND	ND	6	18.9	10.55	ND
Jul-04	ND	ND	ND	2.24	ND	290	ND	ND	ND	6.6	19.6	44.5	ND
Oct-04	ND	ND	ND	2.18	ND	333	ND	ND	ND	6.2	18.8	6.5	ND
Jan-05	ND	ND	ND	2.1	ND	351	ND	ND	ND	6.4	19.1	18.92	ND
Apr-05	ND	ND	ND	2.12	ND	320	ND	ND	ND	6.3	19.6	9.71	ND
Jul-05	ND	ND	ND	2.07	ND	330	ND	ND	ND	6.2	21.4	4.46	ND
Oct-05	ND	ND	ND	2.23	ND	300	ND	ND	ND	6.3	18.7	8.61	ND
Jan-06	ND	ND	ND	2.16	ND	283	ND	ND	ND	6.4	18.6	8.63	ND
May-06	ND	ND	ND	2.17	ND	277	ND	ND	ND	6.4	18.9	6.65	ND
Aug-06	2.84 J	30.3 J	<1.0	2.18	1.38 J	310	5.09 J	<0.06	<1.0	6.1	22.7	12.9	9.72 J
Nov-06	<1.5	24.3 J	<1.0	2.18	<1.0	225	<2.5	<0.06	<1.0	6.6	20.7	10.6	9.06 J
Feb-07	<1.5	23.6 J	<1.0	2.13	<1.0	262	<2.5	<0.06	1.28 J	6.7	14.8	8.34	12.5 J
Apr-07	<1.5	21.8 J	<1.0	2.21	<1.0	290	<2.5	<0.06	<1.0	6.2	22.1	3.98	<2.0
Aug-07	<1.5	27.2 J	<1.0	2.14	<1.0	260	<2.5	<0.03	3.47 J	6.6	22.6	5.37	3.67 J
Nov-07	1.61 J	23.1 J	<1.0	2.2	<1.0	257	<2.5	<0.03	1.02 J	6.6	20.3	7.53	4.72 J
Feb-08	<1.5	21.3 J	<1.0	2.17	<2.0	247	<2.5	<0.03	<1.0	6.7	17.2	8.91	7.65 J
Apr-08	<1.5	23.6 J	<1.0	2.14	<2.0	251	<2.5	<0.03	<1.0	6.5	17.7	16.1	6.31 J
Aug-08	<1.5	29.7 J	<1.0	2.15	<2.0	307	<2.5	<0.03	3.73 J	6.5	21.8	12.9	8.59 J
Nov-08	3.76 J	25.7 J	<1.0	2.26	<2.0	311	<2.5	<0.067	<1.0	6.3	20.4	34.3	7.86 J
Feb-09	<1.5	17.7 J	<1.0	2.16	7.76 J	231	<2.5	<0.067	<1.0	6.5	13.7	12.2	12.6 J
May-09	<1.5	23.8 J	<1.0	2.09	<2.0	258	<2.5	<0.067	<1.0	6.4	19.8	8.91	8.56 J
Jul-09	<1.6	29.8 J	<1.0	2.07	1.14 J	300	<3.3	<0.066	2.62 J	6.8	20.8	2.38	13 J
Oct-09	<1.6	24.8 J	<1.0	1.97	<1.0	284	<3.3	<0.066	<1.5	6.4	18.2	4.09	10.8 J

Historical Water Quality Data for MW027BTR

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Feb-10	<1.6	19.6 J	<1.0	2.01	<1.0	243	<3.3	<0.066	<1.5	6.7	14.3	15.7	4.67 J
May-10	<1.6	28.1 J	<1.0	2.09	<1.0	307	<3.3	<0.066	1.5 J	6.3	19.8	11.1	9.21 J
Aug-10	<1.6	26.7 J	<1.0	2.68	<1.0	312	<3.3	<0.066	<1.5	7.1	22	14.9	11.7 J
Nov-10	<1.6	24.3 J	<1.0	2.23	<1.0	278	<3.3	<0.066	<1.5	6.4	21.3	10.3	3.52 J
Feb-11	<1.7	28.4 J	<1.0	2.1	<1.0	282	<3.3	<0.066	<1.5	6.4	18.1	7.21	5.43 J
May-11	<1.7	23.5 J	<1.0	2.28	<1.0	287	<3.3	<0.066	2.57 J	6.4	19.7	11.1	6.87 J
Aug-11	<1.7	23.8 J	<1.0	2.12	<1.0	300	<3.3	<0.066	<1.5	6.5	20.9	13.8	3.61 J
Nov-11	<1.7	28.9 J	<1.0	2.16	<1.0	263	<3.3	<0.066	<1.5	6.8	20.6	11.1	<3.3
Mar-12	<4.0	<7.5	<0.6	2.4	<2.1	254	<1.9	<0.053	<10	6.55	16.7	6.6	<4.5
May-12	<4.0	<7.5	<0.6	2.3	<2.1	308	<1.9	<0.053	<10	6.24	22	18	<4.5
Aug-12	<4.0	<7.5	<0.6	2.3	<2.1	356	<1.9	<0.053	<10	6.2	25.7	3.4	<4.5
Nov-12	<4.0	<7.5	<0.6	2.1	<2.1	281	<1.9	<0.053	<10	6.36	17.1	5.8	<4.5
Feb-13	<4.0	<7.5	<0.6	2.2	<2.1	280	<1.9	<0.015	<10	6.34	17.8	13	<4.5
May-13	<4.0	<7.5	<0.6	2.4	<2.1	305	<1.9	<0.015	<10	6.08	21.4	8.8	<4.5
Aug-13	<4.0	<7.5	<0.6	2.4	<2.1	307	<1.9	<0.015	<10	6.17	22.6	8.6	<4.5
Nov-13	<4.0	<7.5	<0.6	2.6	<2.1	284	<1.9	<0.015	<10	6.26	20.2	14	<4.5
Feb-14	<4.0	<7.5	<0.6	2.4	<2.1	237	<1.9	<0.015	<10	6.3	13.1	19	<4.5
Apr-14	<4.0	<7.5	<0.6	2.5	<2.1	303	<1.9	<0.015	<10	6.3	23	9.4	<4.5
Jul-14	<4.0	<7.5	<0.6	2.5	<2.1	343	<1.9	<0.015	<10	6.21	25.8	13	<4.5
Oct-14	<4.0	<7.5	<0.6	2.4	<2.1	361	<1.9	<0.015	<10	6.48	22	8	<4.5
Feb-15	<4.0	<7.5	<0.6	2.5	<2.1	259	<2.1	<0.015	<10	6.64	16.8	11	<4.5
Apr-15	<2.2	<1.9	<0.54	2.6	<0.72	246	<4.7	<0.028	<2.8	6.76	19.8	9.4	<2.2
Aug-15	<2.2	<1.9	<0.54	2.4	<0.72	360	<4.7	<0.028	<2.8	6.04	28.4	4.4	<2.2
Nov-15	<2.2	<1.9	<0.54	2.6	<0.72	329	<4.7	<0.028	<2.8	6.43	21.8	5.4	<2.2
Feb-16	<2.2	<1.9	<0.54	2.6	<0.72	284	<4.7	<0.028	<2.8	6.45	17.4	16	<2.2
May-16	<2.2	<1.9	<0.54	2.7	<0.72	350	<4.7	<0.028	<2.8	6.45	21.1	16	<2.2
Aug-16	<2.2	<1.9	<0.54	2.6	<0.72	210	<4.7	<0.028	<2.8	6.31	21.2	3.3	<2.2
Oct-16	<2.2	<1.9	<0.54	2.6	<0.72	180	<4.7	<0.028	<2.8	5.83	21.2	5.7	<2.2
Jan-17	<2.2	<1.9	<0.54	2.8	<0.72	150	<4.7	<0.028	<2.8	6.13	17.6	4.2	<2.2
Apr-17	<2.5	25	<0.6	2.8	<1.3	275	<4.7	<0.028	<5	6.68	22.6	10	<2.5
Jul-17	<2.5	<3.1	<0.6	2.8	<1.3	160	<4.7	<0.091	<5	6.18	24.8	7.4	<2.5

Notes:
Data is presented in units of µg/L unless otherwise noted
ND = Non-detect
J = Indicates value is between the method detection limit and practical quantitation limit and is an estimated concentration
Value following "<" represents the method detection limit

Historical Water Quality Data for MW028A

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Apr-94	ND	ND	ND	5	ND	339	ND	ND	ND	7.53	21.2	1.65	ND
Jul-94	ND	ND	ND	3.14	ND	311	ND	ND	ND	7.17	21.3	2.18	ND
Jan-95	ND	ND	ND	ND	ND	300	ND	ND	ND	6.45	16.4	2.48	ND
Jul-95	ND	ND	ND	2.3	ND	271	ND	ND	ND	6.35	21.8	2.54	ND
Jan-96	ND	ND	ND	3.34	ND	300	ND	ND	ND	6.44	17.6	2.3	ND
Jul-96	ND	ND	ND	2.81	ND	303	ND	ND	ND	6.51	20.8	5.2	ND
Jan-97	ND	ND	ND	ND	60.6	290	ND	ND	ND	5.71	18.2	3.16	ND
Jul-97	ND	ND	ND	2.99	ND	280	ND	ND	ND	6.42	19.4	1.56	ND
Jan-98	ND	ND	ND	2.57	ND	342	ND	ND	ND	6.29	18.2	1.16	ND
Jul-98	ND	ND	ND	2.63	ND	336	ND	ND	ND	6.54	20.3	1.46	ND
Jan-99	ND	ND	ND	2.69	ND	315	ND	ND	ND	6.09	18.3	4.2	ND
Jul-99	ND	ND	ND	2.47	ND	362	ND	ND	ND	6.6	19.5	15.9	ND
Jan-00	ND	ND	ND	2.68	45.1	283	ND	ND	ND	6.07	18.9	16.5	ND
Jul-00	ND	ND	ND	2.46	ND	318	ND	ND	ND	6.3	20.4	10.2	ND
Jan-01	ND	ND	ND	2.47	124	349	ND	ND	ND	6.54	18.3	1.98	ND
Jul-01	ND	ND	ND	2.54	63.7	311	ND	ND	ND	6.46	20	16.7	ND
Jan-02	ND	ND	ND	2.54	ND	315	ND	ND	ND	7.1	18.3	3.7	ND
Jul-02	ND	ND	ND	2.62	ND	279	ND	ND	ND	6.83	21.7	2.51	ND
Jan-03	ND	ND	ND	2.54	ND	290	ND	ND	ND	6.19	17.4	7.1	ND
Jul-03	ND	ND	ND	2.55	ND	309	ND	ND	ND	6.79	20.7	4.6	ND
Jan-04	ND	ND	ND	2.72	ND	305	ND	ND	ND	6.9	17.2	1.77	ND
Apr-04	ND	ND	ND	2.53	ND	335	ND	ND	ND	6.4	18.9	1.13	ND
Jul-04	ND	ND	ND	2.65	ND	270	ND	ND	ND	6.8	19.2	3.14	ND
Oct-04	ND	ND	ND	2.6	ND	294	ND	ND	ND	6.6	18.6	1.7	ND
Jan-05	ND	ND	ND	2.53	ND	308	ND	ND	ND	6.7	19.2	1.39	ND
Apr-05	ND	ND	ND	2.54	ND	341	ND	ND	ND	6.6	20.3	0.84	ND
Jul-05	ND	ND	ND	2.45	ND	276	ND	ND	ND	6.4	23.1	2.51	ND
Oct-05	ND	ND	ND	2.6	ND	266	ND	ND	ND	6.5	18.5	0.68	ND
Jan-06	ND	ND	ND	2.51	ND	246	ND	ND	ND	6.6	18.5	0.32	ND
May-06	ND	ND	ND	2.56	ND	242	ND	ND	ND	6.7	18.9	3.5	ND
Aug-06	<1.5	17.1 J	<1.0	2.6	9.05 J	257	3.52 J	<0.06	<1.0	6.9	23	1.34	5.56 J
Nov-06	<1.5	17 J	<1.0	2.57	10.5 J	96.9	<2.5	<0.06	<1.0	7	21	0.7	6.44 J
Feb-07	<1.5	21.9 J	<1.0	2.49	15.2 J	217	<2.5	<0.06	2.4 J	7	14.9	3.88	9.6 J
Apr-07	<1.5	18.5 J	<1.0	2.6	8.64 J	232	<2.5	<0.06	1.4 J	6.5	21.5	1.36	<2.0
Aug-07	<1.5	19.8 J	<1.0	2.45	13.9 J	218	<2.5	<0.03	1.76 J	6.8	23.3	0.39	<2.0
Nov-07	2.11 J	16.1 J	<1.0	2.5	9.78 J	221	<2.5	<0.03	<1.0	6.9	18.8	3.61	3.34 J
Feb-08	<1.5	17.7 J	<1.0	2.72	9.47 J	217	<2.5	<0.03	<1.0	6.5	17.4	7.67	6.38 J
Apr-08	<1.5	18.4 J	<1.0	2.41	6.73 J	230	<2.5	<0.03	<1.0	6.6	18.8	5.14	3.97 J
Aug-08	<1.5	17.9 J	<1.0	2.43	9 J	276	<2.5	<0.03	<1.0	6.7	21.9	17.7	3.91 J
Nov-08	3.73 J	17.1 J	<1.0	2.55	8.55 J	269	<2.5	<0.067	<1.0	6.7	19.7	13.4	4.7 J
Feb-09	<1.5	272	<1.0	2.4	<2.0	202	<2.5	<0.067	<1.0	6.6	14.5	9.97	11.7 J
May-09	<1.5	20.2 J	<1.0	2.4	4.71 J	235	<2.5	<0.067	3.55 J	6.7	19.7	10.8	7.14 J
Jul-09	<1.6	18.8 J	<1.0	2.36	7.85 J	268	<3.3	<0.066	1.64 J	6.7	22.7	4.32	7.54 J
Oct-09	1.88 J	16.9 J	<1.0	2.3	6.67 J	237	<3.3	<0.066	<1.5	6.7	18.8	4.15	7.29 J

Historical Water Quality Data for MW028A

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Feb-10	<1.6	19.5 J	<1.0	2.36	6.88 J	227	<3.3	<0.066	2.58 J	7	16.1	12.3	<3.3
May-10	<1.6	19.6 J	<1.0	2.41	8.24 J	269	<3.3	<0.066	1.78 J	6.5	21.6	7.57	5.2 J
Aug-10	<1.6	19.3 J	<1.0	2.46	14.8 J	254	<3.3	<0.066	<1.5	7.2	22.1	10.7	5.84 J
Nov-10	<1.6	15.5 J	<1.0	2.45	7.21 J	243	<3.3	<0.066	<1.5	6.5	19.6	11.9	<3.3
Feb-11	<1.7	15.4 J	<1.0	2.38	8.11 J	255	<3.3	<0.066	1.95 J	6.8	18.4	6.47	<3.3
May-11	<1.7	17.3 J	<1.0	2.52	7.29 J	254	<3.3	<0.066	<1.5	7.1	21.7	9.41	<3.3
Aug-11	<1.7	19.6 J	<1.0	2.42	5.75 J	261	<3.3	<0.066	<1.5	6.9	21.6	10.1	<3.3
Nov-11	<1.7	18.1 J	<1.0	2.46	3.34 J	245	<3.3	<0.066	<1.5	7	20.3	9.97	<3.3
Mar-12	<4.0	<7.5	<0.6	2.7	<2.1	229	<1.9	<0.053	<10	6.84	18.3	1.1	<4.5
May-12	<4.0	<7.5	<0.6	2.5	<2.1	277	<1.9	<0.053	<10	6.83	23.6	8.5	<4.5
Aug-12	<4.0	<7.5	<0.6	2.6	<2.1	308	<1.9	<0.053	<10	6.67	26.3	1.6	<4.5
Nov-12	<4.0	<7.5	<0.6	2.6	<2.1	259	<1.9	<0.053	<10	6.7	17.1	ND	<4.5
Feb-13	<4.0	<7.5	<0.6	2.5	<2.1	286	<1.9	<0.015	<10	6.65	20.1	4.7	<4.5
May-13	<4.0	<7.5	<0.6	2.7	<2.1	275	<1.9	<0.015	<10	6.75	22.4	ND	<4.5
Aug-13	<4.0	<7.5	<0.6	2.8	<2.1	281	<1.9	<0.015	<10	6.74	22.9	1.9	<4.5
Nov-13	<4.0	<7.5	<0.6	2.8	<2.1	250	<1.9	<0.015	<10	6.91	19.8	ND	<4.5
Feb-14	<4.0	<7.5	<0.6	2.7	<2.1	241	<1.9	<0.015	<10	7.08	17	1.2	<4.5
Apr-14	<4.0	<7.5	<0.6	2.8	<2.1	251	<1.9	<0.015	<10	6.74	23.2	1.3	<4.5
Jul-14	<4.0	<7.5	<0.6	2.9	<2.1	270	<1.9	<0.015	<10	6.49	25.2	5.6	<4.5
Oct-14	<4.0	<7.5	<0.6	2.8	<2.1	274	<1.9	<0.015	<10	6.56	23.5	3.7	<4.5
Feb-15	<4.0	<7.5	<0.6	2.8	<2.1	224	<2.1	<0.015	<10	6.8	17	--	<4.5
May-15	<2.2	<1.9	<0.54	2.9	<0.72	223	<4.7	<0.028	<2.8	6.98	22.9	1.8	<2.2
Aug-15	<2.2	<1.9	<0.54	2.6	<0.72	270	<4.7	<0.028	<2.8	6.63	25.4	2.1	<2.2
Nov-15	<2.2	<1.9	<0.54	2.9	<0.72	281	<4.7	<0.028	<2.8	6.8	21.2	ND	<2.2
Feb-16	<2.2	<1.9	<0.54	2.6	<0.72	257	<4.7	<0.028	<2.8	6.76	15.3	ND	<2.2
May-16	<2.2	<1.9	<0.54	2.8	<0.72	300	<4.7	<0.028	<2.8	6.71	20.8	ND	<2.2
Aug-16	<2.2	<1.9	<0.54	2.7	<0.72	170	<4.7	<0.028	<2.8	6.32	22.2	ND	<2.2
Oct-16	<2.2	<1.9	<0.54	2.8	<0.72	160	<4.7	<0.028	<2.8	6.22	21.2	2.7	<2.2
Jan-17	<2.2	<1.9	<0.54	2.8	<0.72	140	<4.7	<0.028	<2.8	6.35	17.4	2.8	<2.2
Apr-17	<2.5	<3.1	<0.6	2.7	34	219	<4.7	<0.028	<5	7.1	24.3	1.3	<2.5
Jul-17	<2.5	<3.1	<0.6	2.9	11	140	<4.7	<0.091	<5	6.09	23.2	2.3	<2.5

Notes:
Data is presented in units of µg/L unless otherwise noted
ND = Non-detect
J = Indicates value is between the method detection limit and practical quantitation limit and is an estimated concentration
Value following "<" represents the method detection limit

Historical Water Quality Data for MW029

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
May-94	ND	ND	ND	7	ND	616	ND	ND	ND	6.53	19.3	23	2
Oct-94	ND	ND	ND	4.81	ND	617	ND	ND	ND	7.96	21	17.9	ND
Apr-95	ND	ND	ND	6.06	ND	505	ND	ND	ND	7.17	19.5	18.58	ND
Oct-95	ND	ND	ND	6.45	ND	514	ND	ND	ND	6.42	19.7	75	ND
Apr-96	ND	ND	ND	6.17	ND	563	ND	ND	ND	6.88	17.9	28.4	ND
Oct-96	ND	ND	ND	6.41	ND	61	ND	ND	ND	6.38	19.3	37.9	ND
Apr-97	ND	ND	ND	6.42	ND	587	ND	ND	55.7	5.88	19.5	36.4	47.6
Oct-97	ND	ND	ND	6.07	ND	594	ND	ND	ND	6.2	19.4	6.3	30.8
Apr-98	ND	ND	ND	6.77	ND	611	ND	ND	ND	5.82	18	6.49	ND
Oct-98	ND	ND	ND	5.61	ND	574	ND	ND	ND	6.18	19.6	17.3	29.2
Apr-99	ND	ND	ND	6.6	ND	580	ND	ND	ND	5.7	18	16	ND
Oct-99	ND	ND	ND	6.25	ND	642	ND	ND	ND	6.21	19.2	19.4	ND
Apr-00	ND	ND	ND	6.15	ND	567	ND	ND	ND	5.99	19.6	12.45	29.2
Oct-00	ND	ND	ND	5.49	ND	615	ND	ND	ND	5.95	18.5	31.5	ND
Apr-01	ND	ND	ND	5.5	ND	608	ND	ND	ND	6.11	18.6	15.89	ND
Oct-01	ND	ND	ND	6.8	ND	557	ND	ND	ND	6.22	18.9	10.04	36.7
Apr-02	ND	ND	ND	5.78	ND	494	ND	ND	ND	6.53	21.1	14	ND
Oct-02	ND	ND	ND	5.86	ND	571	ND	ND	ND	6	17.9	27.5	ND
Apr-03	ND	ND	ND	5.85	ND	580	ND	ND	ND	6.5	20	14.71	23.6
Oct-03	ND	ND	ND	5.84	ND	600	ND	ND	ND	6.16	19.7	14.05	ND
Jan-04	ND	ND	ND	6.15	ND	523	ND	ND	ND	6.4	17.2	10.8	ND
Apr-04	ND	ND	ND	5.79	ND	5.65	ND	ND	ND	5.9	17.2	19.8	21.4
Jul-04	ND	ND	ND	6.13	ND	635	ND	ND	ND	6.2	20.8	11.6	ND
Oct-04	ND	ND	ND	5.85	ND	560	ND	ND	ND	5.9	19.5	22.4	ND
Jan-05	ND	ND	ND	5.88	ND	547	ND	ND	ND	6	19.3	13.55	ND
Apr-05	ND	ND	ND	5.6	ND	529	ND	ND	ND	6.6	19.7	14.9	ND
Jul-05	ND	ND	ND	5.52	ND	550	ND	ND	ND	6	23.1	17.3	22.9
Oct-05	ND	ND	ND	5.74	ND	532	ND	ND	ND	6.1	19.4	9.02	32.3
Jan-06	ND	ND	ND	5.81	ND	452	ND	ND	ND	6.1	18.2	38	ND
May-06	ND	ND	ND	5.65	ND	468	ND	ND	ND	6.5	19	8.63	ND
Aug-06	<1.5	13.4 J	<1.0	5.83	4 J	670	5.18 J	<0.06	10.2 J	6.6	21	9.9	15.7 J
Nov-06	<1.5	11.3 J	<1.0	5.62	4.45 J	421	<2.5	<0.06	6.19 J	6.3	18.9	22.9	15 J
Feb-07	<1.5	16.5 J	<1.0	5.94	2.04 J	236	<2.5	<0.06	20.4 J	6.6	17.3	7.7	26.5
May-07	<1.5	15.5 J	<1.0	5.84	<1.0	488	<2.5	<0.06	18.8 J	6.1	20.3	6.39	14.2 J
Aug-07	<1.5	15.7 J	<1.0	5.48	1.15 J	491	<2.5	<0.03	18.8 J	6.4	22	9.81	11.9 J
Nov-07	2.2 J	9.53 J	<1.0	5.43	4.5 J	466	<2.5	<0.03	5.34 J	6.9	20.6	10.7	7.83 J
Feb-08	<1.5	11.6 J	1.08 J	5.33	5.42 J	415	<2.5	<0.03	10.1 J	6.3	17.7	13.3	8.61 J
Apr-08	<1.5	13.3 J	<1.0	5.62	<2.0	464	4.23 J	<0.03	10.4 J	6.3	19.3	19.9	14.7 J
Aug-08	<1.5	12.3 J	<1.0	5.81	3.55 J	532	<2.5	<0.03	7.62 J	6.4	22.3	19.1	9.72 J
Nov-08	1.87 J	14.7 J	<1.0	5.67	<2.0	536	<2.5	<0.067	17.1 J	7.9	21.2	10.1	16.8 J
Feb-09	<1.5	13.5 J	<1.0	5.72	<2.0	415	2.52 J	<0.067	14.8 J	6.6	14.1	12.8	22.3
May-09	<1.5	12.6 J	<1.0	5.58	<2.0	461	<2.5	<0.067	10.4 J	6.5	18.6	14.8	13.9 J
Jul-09	<1.6	12.9 J	<1.0	5.49	2.58 J	510	<3.3	<0.066	6.12 J	6.1	21	4.65	10.9 J
Oct-09	<1.6	13.4 J	<1.0	5.48	1.43 J	523	<3.3	<0.066	5.6 J	6.3	21.2	13.7	22.3

Historical Water Quality Data for MW029

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Feb-10	<1.6	12.9 J	<1.0	5.29	1.89 J	387	<3.3	<0.066	12 J	6.5	12.1	4.13	7.86 J
May-10	<1.6	13.9 J	<1.0	5.56	2.65 J	493	<3.3	<0.066	10.3 J	6.5	18.3	7.72	14 J
Aug-10	<1.6	11.5 J	<1.0	5.79	1.39 J	478	<3.3	<0.066	6.28 J	6.3	21.3	10.2	14.3 J
Nov-10	<1.6	9.8 J	<1.0	5.59	1.84 J	489	<3.3	<0.066	7.35 J	6.9	20.2	13.9	6.89 J
Feb-11	<1.7	10.4 J	1.18 J	5.71	2.32 J	428	<3.3	<0.066	4.05 J	6.3	15.6	12.1	18.1 J
May-11	<1.7	11.3 J	<1.0	5.89	2.22 J	496	<3.3	<0.066	8.41 J	6.5	19.1	8.52	11 J
Aug-11	<1.7	12.1 J	<1.0	5.56	2.74 J	526	3.79 J	<0.066	8.15 J	6.5	21.6	19.1	5.12 J
Nov-11	<1.7	10.6 J	<1.0	5.53	2.94 J	436	<3.3	<0.066	8.09 J	6.3	18.6	13.9	<3.3
Mar-12	<4.0	<7.5	<0.6	6	<2.1	476	<1.9	<0.053	<10	6.88	19.3	9.2	<4.5
May-12	<4.0	<7.5	<0.6	6.2	<2.1	505	<1.9	<0.053	<10	6.2	21.6	39	<4.5
Aug-12	<4.0	<7.5	<0.6	6.5	<2.1	530	<1.9	<0.053	<10	6.11	25.2	36	<4.5
Nov-12	<4.0	<7.5	<0.6	5.9	<2.1	514	<1.9	<0.053	<10	6.5	21.7	23	22
Feb-13	<4.0	<7.5	<0.6	6.2	<2.1	438	<1.9	<0.015	<10	8.36	16.6	5	<4.5
May-13	<4.0	<7.5	<0.6	6.4	<2.1	541	<1.9	<0.015	<10	6.12	24.9	13	24
Aug-13	<4.0	<7.5	<0.6	6.2	<2.1	462	<1.9	<0.015	<10	5.73	21.7	9.7	31
Oct-13	<4.0	<7.5	<0.6	7.1	<2.1	528	<1.9	<0.015	<10	6.36	23.5	4.4	21
Feb-14	<4.0	<7.5	<0.6	6.4	<2.1	450	<1.9	<0.015	<10	6.55	17.9	14	26
Apr-14	<4.0	<7.5	<0.6	6.3	<2.1	438	<1.9	<0.015	<10	6.02	20.6	9.2	23
Jul-14	<4.0	<7.5	<0.6	6.8	<2.1	503	<1.9	<0.015	<10	5.77	23.8	8.6	21
Oct-14	<4.0	<7.5	<0.6	6.3	<2.1	561	<1.9	<0.015	<10	6.18	24.4	9.7	27
Feb-15	<4.0	<7.5	<0.6	6.4	<2.1	338	<2.1	<0.015	<10	7.44	13.2	20	28
May-15	<2.2	<1.9	<0.54	6.6	<0.72	434	<4.7	<0.028	<2.8	6.22	20.9	8.8	24
Aug-15	<2.2	<1.9	<0.54	6.5	<0.72	562	<4.7	<0.028	<2.8	6.44	25.4	6.9	22
Oct-15	<2.2	<1.9	<0.54	6.4	<0.72	452	<4.7	<0.028	<2.8	6.38	20.1	7.4	<2.2
Feb-16	<2.2	<1.9	<0.54	6.2	<0.72	426	<4.7	<0.028	<2.8	6.05	15.8	24	25
May-16	<2.2	<1.9	<0.54	6.3	<0.72	540	<4.7	<0.028	<2.8	6.46	21.8	19	<2.2
Jul-16	<2.2	<1.9	<0.54	6.3	<0.72	290	<4.7	<0.028	<2.8	6.08	24.9	3.1	23
Oct-16	<2.2	<1.9	<0.54	5.9	<0.72	250	<4.7	<0.028	<2.8	5.86	23.4	5.6	23
Feb-17	<2.2	<1.9	<0.54	6.3	<0.72	200	<4.7	<0.028	<2.8	6.06	22.3	5.8	<2.2
Apr-17	<2.5	<3.1	<0.6	6.4	<1.3	412	<4.7	<0.028	<5	6.42	20.4	25	21
Jul-17	<2.5	<3.1	<0.6	6.4	<1.3	200	<4.7	<0.091	<5	5.6	25.2	6.3	20

Notes:
Data is presented in units of µg/L unless otherwise noted
ND = Non-detect
J = Indicates value is between the method detection limit and practical quantitation limit and is an estimated concentration
Value following "<" represents the method detection limit

Historical Water Quality Data for MW030

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Apr-94	ND	ND	ND	28	ND	352	ND	ND	ND	6.69	18.5	3.19	ND
Jul-94	ND	ND	ND	18.1	ND	364	ND	ND	ND	7.39	22.4	17	ND
Jan-95	ND	ND	ND	19.3	ND	328	ND	ND	ND	6.53	15.5	15.6	ND
Jul-95	ND	ND	ND	16.8	ND	359	ND	ND	ND	5.97	21	24.7	ND
Jan-96	ND	ND	ND	19.3	ND	421	ND	ND	ND	6.07	17.8	14.4	ND
Jul-96	ND	ND	ND	18.4	ND	341	ND	ND	ND	5.85	21.1	9.6	ND
Jan-97	ND	ND	ND	20.3	ND	420	ND	ND	ND	5.2	18.2	23.2	ND
Jul-97	ND	ND	ND	19.2	ND	409	ND	ND	ND	5.8	20	20.5	ND
Jan-98	ND	ND	ND	18.2	ND	390	ND	ND	ND	5.5	18.5	7.3	ND
Jul-98	ND	ND	ND	18.8	ND	406	ND	ND	ND	5.89	20.2	10.2	ND
Jan-99	ND	ND	ND	20.3	ND	403	ND	ND	ND	5.64	18.9	6.3	ND
Jul-99	ND	ND	ND	20.1	ND	445	ND	ND	ND	5.75	19.2	7	ND
Jan-00	ND	ND	ND	19.2	ND	340	ND	ND	ND	5.6	18.4	12.28	ND
Jul-00	ND	ND	ND	19.4	ND	379	ND	ND	ND	5.75	21.2	12.34	ND
Jan-01	ND	ND	ND	22.6	ND	403	ND	ND	ND	5.63	18	8.66	ND
Jul-01	ND	ND	ND	20.6	ND	446	ND	ND	ND	5.88	20	16.7	ND
Jan-02	ND	ND	ND	19.1	ND	399	ND	ND	ND	5.92	18.1	13.1	ND
Jul-02	ND	ND	ND	19.8	ND	341	ND	ND	ND	5.73	21.7	60.8	ND
Jan-03	ND	ND	ND	19.5	ND	387	ND	ND	ND	5.77	17.4	34	ND
Jul-03	ND	ND	ND	19.3	ND	395	ND	ND	ND	5.98	21.1	45.6	ND
Jan-04	ND	ND	ND	19.1	ND	364	ND	ND	ND	6.3	18	19.5	ND
Apr-04	ND	ND	ND	18.7	ND	415	ND	ND	ND	6	17.2	22.4	ND
Jul-04	ND	ND	ND	18.8	ND	431	ND	ND	ND	6.1	20.4	12.93	ND
Oct-04	ND	ND	ND	18.9	ND	393	ND	ND	ND	5.8	19.4	26	22.7
Jan-05	ND	ND	ND	19.5	ND	385	ND	ND	ND	6	19.4	12.5	ND
Apr-05	ND	ND	ND	19.7	ND	363	ND	ND	ND	6.2	19	17.5	ND
Jul-05	ND	ND	ND	19.8	ND	377	ND	ND	ND	5.9	22.2	8.08	22.1
Oct-05	ND	ND	ND	17.9	ND	347	ND	ND	ND	5.7	20.1	15.7	ND
Jan-06	ND	ND	ND	19	ND	324	ND	ND	ND	6.1	17.2	14.9	ND
May-06	ND	ND	ND	20.2	ND	335	ND	ND	ND	6.1	19.4	8.67	ND
Aug-06	<1.5	11.4 J	<1.0	18.8	1.25 J	375	4.22 J	<0.06	3.5 J	6.4	20.7	12.6	11.7 J
Nov-06	<1.5	12.4 J	<1.0	19.6	<1.0	269	<2.5	<0.06	4.63 J	6.3	19.3	9.44	11.3 J
Feb-07	<1.5	11.5 J	<1.0	19.9	<1.0	312	<2.5	<0.06	6.54 J	6	18	8.76	16.3 J
May-07	<1.5	14.8 J	<1.0	18.6	<1.0	319	<2.5	<0.06	5.9 J	5.8	20.4	17.7	6.24 J
Aug-07	<1.5	14.5 J	<1.0	19.4	<1.0	330	<2.5	<0.03	6.28 J	6.2	23.1	13.4	4.24 J
Nov-07	2.4 J	10.5 J	<1.0	18.9	<1.0	313	<2.5	<0.03	4.91 J	6.4	19.8	18.5	8.17 J
Feb-08	<1.5	10.4 J	<1.0	18.4	<2.0	300	<2.5	<0.03	7.48 J	6.3	18.3	15.2	11.2 J
Apr-08	<1.5	9.49 J	<1.0	18.8	<2.0	370	2.5 J	<0.03	7.75 J	6.6	19.8	24.9	11.2 J
Aug-08	<1.5	12.2 J	<1.0	20	<2.0	403	<2.5	<0.03	27.9 J	6.7	22.6	16.7	6.38 J
Nov-08	<1.5	7.17 J	<1.0	18.9	<2.0	405	<2.5	<0.067	22.8 J	7.4	20.8	15.7	8.68 J
Feb-09	<1.5	6.98 J	<1.0	18.9	<2.0	293	3.29 J	<0.067	28.1 J	6.6	13.6	16.9	14.1 J
May-09	<1.5	7.93 J	<1.0	18.6	<2.0	340	<2.5	<0.067	27 J	6.1	20.2	10.1	8.17 J
Jul-09	<1.6	8.88 J	<1.0	19.2	1.25 J	366	<3.3	<0.066	24.1 J	6.7	24	5.7	5.8 J
Oct-09	<1.6	7.4 J	<1.0	18.8	<1.0	399	<3.3	<0.066	14.9 J	6.3	21.3	16.5	10.6 J

Historical Water Quality Data for MW030

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Feb-10	<1.6	7.41 J	<1.0	18.1	1.07 J	289	<3.3	<0.066	15 J	6.5	13.2	13.8	<3.3
May-10	<1.6	9.72 J	<1.0	19.3	<1.0	346	<3.3	<0.066	23.2 J	6	19.6	8.97	7.08 J
Aug-10	<1.6	8.88 J	<1.0	17.9	1.03 J	359	<3.3	<0.066	14.6 J	6.4	24.3	16.4	11.5 J
Nov-10	<1.6	7.58 J	<1.0	19.5	<1.0	365	<3.3	<0.066	10.1 J	6.7	21.2	18.3	4.35 J
Feb-11	<1.7	9.11 J	1.11 J	18.3	<1.0	322	<3.3	<0.066	10.3 J	6.1	16.2	10.5	14.6 J
May-11	<1.7	8.96 J	<1.0	18.6	<1.0	351	<3.3	<0.066	11 J	6.5	19.5	9.97	8.14 J
Aug-11	<1.7	8.06 J	<1.0	19.5	<1.0	419	7.59 J	<0.066	7.5 J	6.5	21.4	13.6	<3.3
Nov-11	<1.7	6.45 J	<1.0	19.3	<1.0	323	<3.3	<0.066	6.38 J	6.4	19	16.3	<3.3
Mar-12	<4.0	<7.5	<0.6	19	<2.1	362	<1.9	<0.053	<10	6.64	19.8	10.4	<4.5
May-12	<4.0	<7.5	<0.6	19	<2.1	404	<1.9	<0.053	<10	6.16	23.2	40	<4.5
Aug-12	<4.0	<7.5	<0.6	2.7	<2.1	399	<1.9	<0.053	<10	5.93	21.8	10	<4.5
Nov-12	<4.0	<7.5	<0.6	19	<2.1	396	<1.9	<0.053	<10	6.53	21.9	22	<4.5
Feb-13	<4.0	<7.5	<0.6	19	<2.1	324	<1.9	<0.015	<10	7.99	15.5	31	<4.5
May-13	<4.0	<7.5	<0.6	20	<2.1	360	<1.9	<0.015	<10	6.52	21.5	12	<4.5
Aug-13	<4.0	<7.5	<0.6	19	<2.1	351	<1.9	<0.015	<10	6.33	22.7	17	<4.5
Oct-13	<4.0	<7.5	<0.6	21	<2.1	384	<1.9	<0.015	<10	6.39	22.9	8.3	<4.5
Feb-14	<4.0	<7.5	<0.6	16	<2.1	374	<1.9	<0.015	<10	7.81	18.3	7.3	<4.5
Apr-14	<4.0	<7.5	<0.6	19	<2.1	386	<1.9	<0.015	<10	6.44	20.9	8.2	<4.5
Jul-14	<4.0	<7.5	<0.6	19	<2.1	412	<1.9	<0.015	<10	6.55	24.6	14	<4.5
Oct-14	<4.0	<7.5	<0.6	20	<2.1	438	<1.9	<0.015	<10	6.53	23.2	9.2	<4.5
Feb-15	<4.0	<7.5	<0.6	19	<2.1	321	<2.1	<0.015	<10	6.78	15.5	19	<4.5
May-15	<2.2	<1.9	<0.54	19	<0.72	339	<4.7	<0.028	<2.8	6.59	21.3	8.1	<2.2
Aug-15	<2.2	<1.9	<0.54	18	<0.72	403	<4.7	<0.028	<2.8	6.72	26.7	8.1	<2.2
Oct-15	<2.2	<1.9	<0.54	19	<0.72	390	<4.7	<0.028	<2.8	6.35	22	4.2	<2.2
Feb-16	<2.2	<1.9	<0.54	19	<0.72	354	<4.7	<0.028	<2.8	6.39	16.5	17	<2.2
May-16	<2.2	<1.9	<0.54	19	<0.72	430	<4.7	<0.028	<2.8	6.76	22	14	<2.2
Aug-16	<2.2	<1.9	<0.54	20	<0.72	240	<4.7	<0.028	<2.8	6.31	21.9	6.2	<2.2
Oct-16	<2.2	<1.9	<0.54	19	<0.72	230	<4.7	<0.028	<2.8	6.13	23.2	9.6	<2.2
Feb-17	<2.2	<1.9	<0.54	19	<0.72	170	<4.7	<0.028	<2.8	6.31	21.7	12	<2.2
Apr-17	<2.5	<3.1	<0.6	19	<1.3	314	<4.7	<0.028	<5	6.98	20.5	5.8	<2.5
Jul-17	<2.5	<3.1	<0.6	19	<1.3	190	<4.7	<0.091	<5	6.19	25.5	14	<2.5

Notes:
Data is presented in units of µg/L unless otherwise noted
ND = Non-detect
J = Indicates value is between the method detection limit and practical quantitation limit and is an estimated concentration
Value following "<" represents the method detection limit

Historical Water Quality Data for MW031TR

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Jul-96	ND	ND	ND	ND	ND	185	ND	ND	ND	6.41	19.6	3.08	ND
Jan-97	ND	ND	ND	ND	ND	252	ND	ND	ND	6	17.8	2.3	ND
Jul-97	ND	ND	ND	2.66	ND	234	ND	ND	ND	6.6	20.2	1.21	ND
Jan-98	ND	101	ND	2.05	ND	223	ND	ND	ND	6.14	19.2	1.42	ND
Jul-98	ND	102	ND	ND	ND	226	ND	ND	ND	6.75	19.7	2.99	ND
Jan-99	ND	ND	ND	2.07	ND	231	ND	ND	ND	6.5	18.6	29	ND
Jul-99	ND	112	ND	1.98	ND	238	ND	ND	ND	6.25	20	1.4	ND
Jan-00	ND	102	ND	ND	ND	183	ND	ND	ND	6.38	18.2	3.89	ND
Jul-00	ND	ND	ND	ND	ND	227	ND	ND	ND	3.24	20.5	3.75	ND
Jan-01	ND	107	ND	ND	ND	231	ND	ND	ND	6.4	17.9	5.3	ND
Jul-01	ND	ND	ND	ND	ND	216	ND	ND	ND	6.45	20.6	5.96	ND
Jan-02	ND	ND	ND	2.08	ND	215	ND	ND	ND	6.71	17.2	4.9	ND
Jul-02	ND	ND	ND	ND	ND	213	ND	ND	ND	6.42	22.2	11.1	ND
Jan-03	ND	ND	ND	2.03	ND	211	ND	ND	ND	6.33	17.2	11	ND
Jul-03	ND	ND	ND	2.08	ND	180	ND	ND	ND	6.58	23	4.7	ND
Jan-04	ND	ND	ND	ND	ND	194	ND	ND	ND	6.2	16.9	3.76	ND
Apr-04	ND	105	ND	ND	ND	279	ND	ND	ND	6.5	18.6	4.2	ND
Jul-04	ND	ND	ND	ND	ND	212	ND	ND	ND	6.8	19.6	2.54	ND
Oct-04	ND	ND	ND	2.06	ND	192	ND	ND	ND	6.5	19.9	1.18	ND
Jan-05	ND	ND	ND	2.01	ND	185	ND	ND	ND	6.5	19.1	12	ND
Apr-05	ND	102	ND	ND	ND	183	ND	ND	ND	6.7	19.8	16.5	ND
Jul-05	ND	ND	ND	ND	ND	172	ND	ND	ND	6.7	21.2	5.25	ND
Oct-05	ND	102	ND	2.03	ND	187	ND	ND	ND	6.7	18.7	1.75	ND
Jan-06	ND	ND	ND	2	ND	165	ND	ND	ND	6.5	18.3	9.54	ND
May-06	ND	ND	ND	2	ND	178	ND	ND	ND	6.5	21.2	12.3	ND
Aug-06	<1.5	105	<1.0	1.83 J	<1.0	156	<2.5	<0.06	<1.0	6.9	25.4	9.5	6.74 J
Nov-06	<1.5	80.7 J	<1.0	1.99 J	<1.0	106	<2.5	<0.06	<1.0	7	21.4	10.7	5.85 J
Feb-07	<1.5	100	<1.0	1.92 J	<1.0	166	<2.5	0.128 J	<1.0	6.2	17.7	1.31	5.14 J
Apr-07	<1.5	101	<1.0	2.05	<1.0	164	<2.5	<0.06	<1.0	6.5	21	19.7	<2.0
Aug-07	<1.5	79.8 J	<1.0	2.07	<1.0	196	<2.5	<0.03	<1.0	6.6	21.6	3.82	6.62 J
Nov-07	<1.5	99.9 J	<1.0	1.97 J	<1.0	157	<2.5	<0.03	<1.0	6.6	19.9	4.87	3.27 J
Feb-08	<1.5	91.6 J	<1.0	1.89 J	<2.0	142	<2.5	<0.03	<1.0	6.6	18.1	9.83	4.17 J
Apr-08	<1.5	135	<1.0	2.06	<2.0	141	<2.5	<0.03	1.02 J	6.8	19.9	15.2	9.25 J
Jul-08	<1.5	74.4 J	<1.0	2.05	<2.0	165	<2.5	<0.03	<1.0	7	21.9	11.3	3.23 J
Nov-08	<1.5	97.5 J	<1.0	1.93 J	<2.0	158	<2.5	<0.067	<1.0	6.8	18.9	10.6	5.41 J
Jan-09	<1.5	82.6 J	<1.0	1.94 J	<2.0	146	<2.5	<0.067	<1.0	6.4	18.8	9.24	5.23 J
Apr-09	<1.5	96.2 J	<1.0	1.9 J	<2.0	141	<2.5	<0.067	<1.0	6.4	20	14.3	4.97 J
Jul-09	<1.6	93.2 J	<1.0	1.86 J	<1.0	150	<3.3	<0.066	<1.5	6.7	21.7	3.81	3.79 J
Oct-09	<1.6	71.4 J	<1.0	1.82 J	<1.0	163	<3.3	<0.066	<1.5	6.6	19.8	10.2	6.89 J
Jan-10	<1.6	75 J	<1.0	1.88 J	<1.0	130	<3.3	<0.066	<1.5	6.7	16.6	6.02	17.9 J
Apr-10	<1.6	29.4 J	<1.0	1.96 J	<1.0	145	<3.3	<0.066	<1.5	6.7	19.1	10.8	<3.3
Jul-10	<1.6	70.1 J	<1.0	2.02	<1.0	165	<3.3	<0.066	<1.5	6.7	20.7	10.5	14.4 J
Nov-10	<1.6	66.1 J	<1.0	1.86 J	<1.0	153	<3.3	<0.066	<1.5	6.9	20.7	12.8	<3.3
Feb-11	<1.7	82.9 J	<1.0	1.99 J	<1.0	115	<3.3	<0.066	<1.5	6.4	16.1	11.4	<3.3

Historical Water Quality Data for MW031TR

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
May-11	<1.7	94.3 J	<1.0	1.99 J	<1.0	141	<3.3	<0.066	2.51 J	6.6	19.2	13.1	<3.3
Jul-11	<1.7	64 J	<1.0	1.99 J	<1.0	181	<3.3	<0.066	<1.5	6.9	21.6	10.2	<3.3
Nov-11	<1.7	65.6 J	<1.0	1.96 J	<1.0	144	<3.3	<0.066	<1.5	6.8	19.6	12.7	<3.3
Mar-12	<4.0	<7.5	<0.6	2.1	<2.1	169	<1.9	<0.053	<10	6.52	20.3	9.28	<4.5
May-12	<4.0	<7.5	<0.6	2	<2.1	186	<1.9	<0.053	<10	6.33	20.3	6.1	<4.5
Aug-12	<4.0	<7.5	<0.6	2	<2.1	ND	<1.9	<0.053	<10	6.56	20	2.5	<4.5
Nov-12	<20	<38	<3	<0.11	<10	201	<9.5	<0.053	<50	6.51	19.5	1.4	<23
Feb-13	<4.0	<7.5	<0.6	2	<2.1	150	<1.9	<0.015	<10	6.36	17.3	10	<4.5
May-13	<4.0	<7.5	<0.6	2.1	<2.1	153	<1.9	<0.015	<10	7.04	19.3	ND	<4.5
Jul-13	<4.0	<7.5	<0.6	2.1	<2.1	166	<1.9	<0.015	<10	6.67	25.2	9.1	<4.5
Oct-13	<4.0	<7.5	<0.6	2.2	<2.1	169	<1.9	<0.015	<10	6.57	24.4	9.4	<4.5
Jan-14	<4.0	<7.5	<0.6	2	<2.1	172	<1.9	<0.015	<10	6.64	12	4.3	<4.5
Apr-14	<4.0	<7.5	<0.6	2.3	<2.1	154	<1.9	<0.015	<10	6.34	22	9.6	<4.5
Jul-14	<4.0	<7.5	<0.6	2.1	<2.1	196	<1.9	<0.015	<10	6.45	24.5	8.1	<4.5
Nov-14	<4.0	<7.5	<0.6	2.1	<2.1	182	<1.9	<0.015	<10	7.15	17.7	2.4	<4.5
Jan-15	<4.0	<7.5	<0.6	2.1	<2.1	152	<2.1	<0.015	<10	6.46	17	8.4	<4.5
Apr-15	<2.2	<1.9	<0.54	2.2	<0.72	165	<4.7	<0.028	<2.8	6.48	20.3	1.2	<2.2
Aug-15	<2.2	<1.9	<0.54	2.3	<0.72	181	<4.7	<0.028	<2.8	6.24	27.2	3	<2.2
Oct-15	<2.2	<1.9	<0.54	2.1	<0.72	177	<4.7	<0.028	<2.8	6.51	20.4	7.8	<2.2
Feb-16	<2.2	<1.9	<0.54	2.3	<0.72	153	<4.7	<0.028	<2.8	6.35	18.5	9.2	<2.2
Apr-16	<2.2	<1.9	<0.54	2.2	<0.72	190	<4.7	<0.028	<2.8	6.54	21.8	13	<2.2
Jul-16	<2.2	<1.9	<0.54	2.1	<0.72	140	<4.7	<0.028	<2.8	6.32	24.1	9.7	<2.2
Oct-16	<2.2	<1.9	<0.54	2.4	<0.72	130	<4.7	<0.028	<2.8	6.17	25.9	8.7	<2.2
Jan-17	<2.2	<1.9	<0.54	2.1	<0.72	100	<4.7	<0.028	<2.8	6.6	18.9	8.6	<2.2
Apr-17	<2.5	76	<0.6	2.1	<1.3	128	<4.7	<0.028	<5	6.82	23	6.9	<2.5
Jul-17	<2.5	94	<0.6	2.2	<1.3	110	<4.7	<0.091	<5	5.92	22.5	9	<2.5

Notes:
Data is presented in units of µg/L unless otherwise noted
ND = Non-detect
J = Indicates value is between the method detection limit and practical quantitation limit and is an estimated concentration
Value following "<" represents the method detection limit

Historical Water Quality Data for MW033

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
May-94	ND	100	ND	2	ND	199	ND	ND	ND	6.95	18.3	14.06	ND
Jul-94	ND	ND	ND	2.38	ND	198	ND	ND	ND	6.78	21.8	25.4	ND
Jan-95	ND	ND	ND	ND	ND	207	ND	ND	ND	6.66	16.9	11.2	ND
Jul-95	ND	ND	ND	2.12	ND	188	ND	ND	ND	6.62	22.9	24.9	ND
Jan-96	ND	113	ND	2.16	ND	170	ND	ND	ND	6.57	16.8	12.9	ND
Jul-96	ND	104	ND	ND	ND	220	ND	ND	ND	6.83	19.7	15.4	ND
Jan-97	ND	112	ND	ND	ND	211	ND	ND	ND	6.78	17.7	7.35	ND
Jul-97	ND	108	ND	2.41	ND	239	ND	ND	ND	6.38	19.6	14.5	ND
Jan-98	ND	112	ND	ND	ND	245	ND	ND	ND	6.57	18.7	24	ND
Jul-98	ND	108	ND	ND	ND	244	ND	ND	ND	6.6	20.2	8.31	ND
Jan-99	ND	111	ND	1.75	ND	235	ND	ND	ND	6.37	18.7	28.6	ND
Jul-99	ND	124	ND	ND	ND	202	ND	ND	ND	6.25	20.4	10.3	ND
Jan-00	ND	110	ND	ND	ND	202	ND	ND	ND	6.42	18.4	12.93	ND
Jul-00	ND	102	ND	ND	ND	259	ND	ND	ND	6.25	20.6	10.87	ND
Jan-01	ND	113	ND	3.08	ND	259	ND	ND	ND	6.6	17.9	26.5	ND
Jul-01	ND	ND	ND	ND	ND	270	ND	ND	ND	6.69	20	26.1	ND
Jan-02	ND	ND	ND	ND	ND	246	ND	ND	ND	6.94	17.8	19.5	ND
Jul-02	ND	113	ND	ND	ND	242	ND	ND	ND	6.77	21.2	33.1	ND
Jan-03	ND	126	ND	ND	ND	293	ND	ND	ND	6.43	17.4	20.8	ND
Jul-03	ND	116	ND	2.17	ND	224	ND	ND	ND	6.86	21.1	23.3	ND
Jan-04	ND	113	ND	ND	ND	234	ND	ND	ND	6.4	16.9	24.5	ND
Apr-04	ND	117	ND	ND	ND	324	ND	ND	ND	6.5	18.3	37.2	ND
Jul-04	ND	122	ND	ND	ND	227	ND	ND	ND	6.5	19.3	21.7	ND
Oct-04	ND	106	ND	ND	ND	226	ND	ND	ND	6.6	21	18.6	ND
Jan-05	ND	ND	ND	ND	ND	201	ND	ND	ND	6.7	18.6	15.35	ND
Apr-05	ND	108	ND	ND	ND	219	ND	ND	ND	6.7	19.7	12.83	ND
Jul-05	ND	ND	ND	ND	ND	202	ND	ND	ND	6.7	21.6	9.99	ND
Oct-05	ND	101	ND	ND	ND	207	ND	ND	ND	6.6	19	18.3	ND
Jan-06	ND	108	ND	ND	ND	204	ND	ND	ND	6.5	17.5	13.3	ND
May-06	ND	108	ND	ND	ND	224	ND	ND	ND	6.7	20.2	9.36	ND
Aug-06	<1.5	107	<1.0	1.63 J	<1.0	187	<2.5	<0.06	<1.0	6.7	25.2	7.2	8.59 J
Nov-06	<1.5	89.8 J	<1.0	1.81 J	1.1 J	150	<2.5	<0.06	<1.0	7	20.9	9.21	6.18 J
Feb-07	<1.5	103	<1.0	1.85 J	<1.0	150	<2.5	<0.06	<1.0	6.9	17.8	5.41	6.87 J
Apr-07	<1.5	101	<1.0	1.84 J	<1.0	203	<2.5	<0.06	<1.0	6.6	20.1	20.8	<2.0
Aug-07	<1.5	109	<1.0	1.8 J	<1.0	256	<2.5	<0.03	<1.0	6.9	21.7	2.77	8.16 J
Nov-07	<1.5	103	<1.0	1.75 J	<1.0	172	<2.5	<0.03	<1.0	6.8	22	7.46	6.04 J
Feb-08	<1.5	95.5 J	<1.0	1.73 J	<2.0	144	<2.5	<0.03	<1.0	6.5	18.1	12.5	3.6 J
Apr-08	<1.5	111	<1.0	1.83 J	<2.0	183	<2.5	<0.03	<1.0	6.8	20.4	19.9	3.86 J
Jul-08	<1.5	95.6 J	<1.0	1.9 J	<2.0	199	<2.5	<0.03	<1.0	7.2	21.5	5.39	2.82 J
Nov-08	<1.5	101	<1.0	1.73 J	<2.0	161	<2.5	<0.067	<1.0	7	18.3	8.5	6.56 J
Jan-09	<1.5	103	<1.0	1.72 J	<2.0	202	<2.5	<0.067	<1.0	6.7	18.3	10	2.21 J
Apr-09	<1.5	113	<1.0	1.67 J	<2.0	170	<2.5	<0.067	<1.0	6.6	21.7	6.7	7.95 J
Jul-09	<1.6	91.1 J	<1.0	1.65 J	<1.0	180	<3.3	<0.066	<1.5	6.6	23	2.47	3.73 J
Oct-09	<1.6	88.7 J	<1.0	1.61 J	1.25 J	210	<3.3	<0.066	<1.5	6.9	20.1	9.33	8.08 J
Jan-10	<1.6	107	<1.0	1.71 J	<1.0	194	<3.3	<0.066	<1.5	6.8	17.1	5.41	19.6 J

Historical Water Quality Data for MW033

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Apr-10	<1.6	171	<1.0	1.79 J	<1.0	167	<3.3	<0.066	<1.5	7.1	18.9	9.81	<3.3
Jul-10	<1.6	83.6 J	<1.0	1.8 J	<1.0	221	<3.3	<0.066	1.65 J	6.9	21	9.81	4.96 J
Nov-10	<1.6	88.1 J	<1.0	1.65 J	<1.0	179	<3.3	<0.066	<1.5	6.8	19.8	14.8	<3.3
Feb-11	<1.7	111	<1.0	1.78 J	1.06 J	146	<3.3	<0.066	<1.5	6.3	16.4	15.7	<3.3
May-11	<1.7	110	<1.0	1.76 J	<1.0	161	<3.3	<0.066	<1.5	6.7	19.8	12	<3.3
Jul-11	<1.7	114	<1.0	1.78 J	<1.0	216	<3.3	<0.066	<1.5	6.9	21.5	16.5	<3.3
Nov-11	<1.7	91 J	<1.0	1.75 J	1.21 J	182	<3.3	<0.066	<1.5	6.8	18.7	14.7	<3.3
Mar-12	<4.0	110	<0.6	<0.11	<2.1	221	<1.9	<0.053	<10	6.86	22.3	11.3	<4.5
May-12	<4.0	100	<0.6	<0.11	<2.1	234	<1.9	<0.053	<10	6.71	20.4	25	<4.5
Aug-12	<4.0	<7.5	<0.6	<0.11	<2.1	ND	<1.9	<0.053	<10	6.64	19.6	20	<4.5
Nov-12	<4.0	<7.5	<0.6	<0.11	<2.1	238	<1.9	<0.053	<10	6.7	20	21	<4.5
Feb-13	<4.0	120	<0.6	<0.11	<2.1	200	<1.9	<0.015	<10	7.86	18.5	1.6	<4.5
May-13	<4.0	110	<0.6	<0.11	<2.1	212	<1.9	<0.015	<10	6.96	19.7	5.8	<4.5
Jul-13	<4.0	110	<0.6	<0.11	<2.1	231	<1.9	<0.015	<10	6.43	25.4	5.4	<4.5
Oct-13	<4.0	110	<0.6	<0.11	<2.1	237	<1.9	<0.015	<10	6.78	23	8.2	<4.5
Jan-14	<4.0	110	<0.6	<0.11	<2.1	228	<1.9	<0.015	<10	6.71	15.5	17	<4.5
Apr-14	<4.0	110	<0.6	2	<2.1	191	<1.9	<0.015	<10	6.74	21.5	9.2	<4.5
Jul-14	<4.0	110	<0.6	<0.11	<2.1	238	<1.9	<0.015	<10	6.6	23.8	9	<4.5
Oct-14	<4.0	110	<0.6	<0.11	<2.1	221	<1.9	<0.015	<10	6.49	21.6	--	<4.5
Jan-15	<4.0	110	<0.6	<0.11	<2.1	198	<2.1	<0.015	<10	6.92	17.2	8.9	26
Apr-15	<2.2	<1.9	<0.54	<0.11	<0.72	198	<4.7	<0.028	<2.8	6.58	19	10	<2.2
Aug-15	<2.2	<1.9	<0.54	<0.11	<0.72	221	<4.7	<0.028	<2.8	6.4	25.4	8.7	<2.2
Oct-15	<2.2	<1.9	<0.54	<0.033	<0.72	204	<4.7	<0.028	<2.8	6.68	20.2	9.4	<2.2
Feb-16	<2.2	<1.9	<0.54	<0.033	<0.72	197	<4.7	<0.028	<2.8	6.62	19.7	15	<2.2
Apr-16	<2.2	100	<0.54	2	<0.72	230	<4.7	<0.028	<2.8	6.53	21.7	15	<2.2
Jul-16	<2.2	<1.9	<0.54	<0.033	<0.72	160	<4.7	<0.028	<2.8	6.5	26.6	6	<2.2
Oct-16	<2.2	<1.9	<0.54	<0.2	<0.72	150	<4.7	<0.028	<2.8	6.43	25.7	11	<2.2
Jan-17	<2.2	110	<0.54	<0.2	<0.72	130	<4.7	<0.028	<2.8	6.2	20.3	6.4	<2.2
Apr-17	<2.5	110	<0.6	<0.2	<1.3	192	<4.7	<0.028	<5	7.03	21.1	7.9	<2.5
Jul-17	<2.5	90	<0.6	2	<1.3	140	<4.7	<0.091	<5	6.23	22.5	5.4	<2.5

Notes:
Data is presented in units of µg/L unless otherwise noted
ND = Non-detect
J = Indicates value is between the method detection limit and practical quantitation limit and is an estimated concentration
Value following "<" represents the method detection limit

Historical Water Quality Data for MW041T

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
May-94	ND	ND	ND	3	ND	205	ND	ND	ND	6.87	18.5	2.3	22
Oct-94	ND	ND	ND	ND	ND	169	ND	ND	ND	8.09	19.8	ND	ND
Apr-95	ND	ND	ND	ND	ND	152	ND	ND	ND	7.08	21	0.49	ND
Oct-95	ND	ND	ND	ND	ND	174	ND	ND	ND	6.84	20.3	1.32	ND
Apr-96	ND	67	ND	1.68	ND	194	ND	ND	ND	7.16	17	ND	ND
Oct-96	ND	ND	ND	ND	ND	236	ND	ND	ND	7.46	19.1	1.6	ND
Apr-97	ND	ND	ND	ND	ND	199	ND	ND	ND	6.54	19.7	3.4	ND
Oct-97	ND	ND	ND	ND	ND	221	ND	ND	ND	6.14	19.6	3.61	ND
Apr-98	ND	ND	ND	ND	ND	186	ND	ND	ND	6.51	20.2	6.1	ND
Oct-98	ND	ND	ND	1.32	ND	226	ND	ND	ND	6.55	19.8	7.75	ND
Apr-99	ND	ND	ND	1.6	ND	220	ND	ND	ND	6	19	7.9	ND
Oct-99	ND	ND	ND	ND	ND	222	ND	ND	ND	6.71	19.4	9.52	ND
Apr-00	ND	61.4	ND	1.43	ND	224	ND	ND	ND	6.73	19.6	2.54	51.1
Oct-00	ND	84.1	ND	1.27	ND	ND	ND	ND	ND	ND	ND	ND	ND
Apr-01	ND	ND	ND	ND	ND	216	ND	ND	ND	6.47	18.9	10.1	ND
Oct-01	ND	ND	ND	ND	ND	219	ND	ND	ND	6.56	20.1	5.32	ND
Apr-02	ND	ND	ND	ND	ND	226	ND	ND	ND	6.46	20.4	15.1	ND
Oct-02	ND	ND	ND	ND	ND	215	ND	ND	ND	7.3	21.1	12.65	ND
Apr-03	ND	ND	ND	ND	ND	219	ND	ND	ND	6.38	18.9	10.55	ND
Oct-03	ND	ND	ND	ND	ND	196	ND	ND	ND	6.56	18.9	8.68	ND
Jan-04	ND	ND	ND	ND	ND	210	ND	ND	ND	6.4	17.2	8.4	ND
Apr-04	ND	ND	ND	ND	ND	186	ND	ND	ND	6.4	19	8.2	ND
Jul-04	ND	ND	ND	ND	ND	217	ND	ND	ND	6.8	20	10.85	ND
Nov-04	ND	71.3	ND	ND	ND	209	ND	ND	ND	6.7	19.1	12.62	6.53
Jan-05	ND	ND	ND	ND	ND	201	ND	ND	ND	6.7	19.8	5.15	ND
Apr-05	ND	ND	ND	ND	ND	198	ND	ND	ND	7	19.9	2.49	ND
Jul-05	ND	ND	ND	ND	ND	201	ND	ND	ND	6.8	20.6	10.5	ND
Dec-05	ND	67	ND	ND	ND	191	ND	ND	ND	6.7	18.8	8.64	ND
Jan-06	ND	ND	ND	ND	ND	197	ND	ND	ND	6.9	19.3	2.8	ND
May-06	ND	ND	ND	ND	ND	189	ND	ND	ND	7	21	5.47	ND
Aug-06	<1.5	66.6 J	<1.0	1.36 J	<1.0	197	<2.5	<0.06	<1.0	6.8	24	1.61	9.32 J
Nov-06	<1.5	69.9 J	<1.0	1.35 J	<1.0	159	<2.5	<0.06	<1.0	7.4	22	2.71	7.74 J
Jan-07	<1.5	67.7 J	<1.0	1.24 J	<1.0	208	<2.5	0.105 J	<1.0	7.1	17.5	0.89	3.96 J
Apr-07	<1.5	68.1 J	<1.0	1.38 J	<1.0	201	<2.5	<0.06	<1.0	6.8	21.8	3.91	2.01 J
Aug-07	<1.5	70.2 J	<1.0	1.4 J	<1.0	211	<2.5	<0.03	<1.0	6.6	21.7	3.33	7.38 J
Nov-07	<1.5	69.4 J	<1.0	1.34 J	<1.0	183	<2.5	<0.03	<1.0	6.9	19.5	5.25	4.54 J
Feb-08	<1.5	60.7 J	<1.0	1.37 J	<2.0	162	<2.5	0.0898 J	<1.0	6.9	17.9	3.25	3.83 J
Apr-08	<1.5	101	<1.0	1.37 J	2 J	166.1	<2.5	<0.03	2.93 J	7.1	19.7	19.2	11 J
Jul-08	<1.5	72.4 J	<1.0	1.4 J	<2.0	178	<2.5	<0.03	<1.0	6.8	21.4	12.9	7.71 J
Nov-08	1.92 J	69.1	<1.0	1.3 J	1.54 J	188	<0.5	<0.067	0.947 J	7.1	20.1	12.4	5.79 J
Jan-09	<1.5	59.7 J	<1.0	1.14 J	<2.0	179	<2.5	<0.067	<1.0	7.5	18.8	8.48	2.65 J
Apr-09	<1.5	64.3 J	<1.0	1.38 J	<2.0	181	<2.5	<0.067	<1.0	6.9	20.7	9.89	9.41 J
Jul-09	<1.6	64.2 J	<1.0	1.32 J	<1.0	196	<3.3	<0.066	<1.5	6.6	22.8	3.22	4.1 J
Oct-09	<1.6	65.7 J	<1.0	1.31 J	<1.0	173	<3.3	<0.066	<1.5	6.8	18.3	2.71	8.45 J

Historical Water Quality Data for MW041T

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Jan-10	<1.6	60.4 J	<1.0	1.27 J	<1.0	169	<3.3	<0.066	<1.5	6.9	17.4	14.5	18.7 J
Apr-10	<1.6	63.6 J	<1.0	1.34 J	<1.0	182	<3.3	<0.066	<1.5	7.3	19.3	7.94	<3.3
Jul-10	<1.6	62.6 J	<1.0	1.42 J	<1.0	200	<3.3	<0.066	<1.5	7.1	23	8.81	5.15 J
Nov-10	<1.6	66.1 J	<1.0	1.45 J	1.27 J	169	<3.3	<0.066	<1.5	6.8	18.3	8.28	<3.3
Feb-11	<1.7	56 J	<1.0	1.38 J	<1.0	170	<3.3	<0.066	<1.5	7.1	19.1	8.11	8.12 J
May-11	<1.7	63.4 J	<1.0	1.32 J	<1.0	175	<3.3	<0.066	<1.5	6.9	19.9	9.11	<3.3
Jul-11	<1.7	68.7 J	<1.0	1.36 J	<1.0	182	<3.3	<0.066	<1.5	7.1	21.4	12.2	<3.3
Nov-11	<1.7	70 J	<1.0	1.33 J	<1.0	188	<3.3	<0.066	1.77 J	6.9	19.7	16.8	<3.3
Mar-12	<4.0	<7.5	<0.6	<0.11	<2.1	179	<1.9	<0.053	<10	7.01	19.9	8.91	<4.5
May-12	<4.0	<7.5	<0.6	<0.11	<2.1	202	<1.9	<0.053	<10	6.9	22	2.5	<4.5
Aug-12	<4.0	<7.5	<0.6	<0.11	<2.1	ND	<1.9	<0.053	<10	6.76	20.4	5.4	<4.5
Oct-12	<4.0	<7.5	<0.6	<0.11	<2.1	179	<1.9	<0.053	<10	6.72	19.1	1.6	<4.5
Feb-13	<4.0	<7.5	<0.6	<0.11	<2.1	174	<1.9	<0.015	<10	6.79	19.4	2.3	<4.5
May-13	<4.0	<7.5	<0.6	<0.11	<2.1	178	<1.9	<0.015	<10	7.18	20.2	1.8	<4.5
Jul-13	<4.0	<7.5	<0.6	<0.11	<2.1	200	<1.9	<0.015	<10	6.87	25.1	3.1	<4.5
Oct-13	<4.0	<7.5	<0.6	<0.11	<2.1	187	<1.9	<0.015	<10	6.62	23.5	7.7	<4.5
Jan-14	<4.0	<7.5	<0.6	<0.11	<2.1	153	<1.9	<0.015	<10	6.97	15.2	9.6	<4.5
Apr-14	<4.0	<7.5	<0.6	<0.11	<2.1	180	<1.9	<0.015	<10	6.89	22.4	9.8	<4.5
Jul-14	<4.0	<7.5	<0.6	<0.11	<2.1	183	<1.9	<0.015	<10	6.6	22	5.6	<4.5
Oct-14	<4.0	72	<0.6	<0.11	<2.1	179	<1.9	<0.015	<10	6.91	19.8	7.2	<4.5
Jan-15	<4.0	<7.5	<0.6	<0.11	<2.1	158	<2.1	<0.015	<10	7.08	17.8	--	<4.5
Apr-15	<2.2	<1.9	<0.54	<0.11	<0.72	172	<4.7	<0.028	<2.8	6.47	19.6	4.7	<2.2
Aug-15	<2.2	<1.9	<0.54	<0.11	<0.72	223	<4.7	<0.028	<2.8	6.51	25.4	5	<2.2
Oct-15	<2.2	<1.9	<0.54	<0.033	<0.72	191	<4.7	<0.028	<2.8	6.87	19.3	8.3	<2.2
Jan-16	<2.2	<1.9	<0.54	<0.033	<0.72	177	<4.7	<0.028	<2.8	6.79	19.2	10	<2.2
Apr-16	<2.2	<1.9	<0.54	<0.033	<0.72	220	<4.7	<0.028	<2.8	6.71	20.9	2.1	<2.2
Jul-16	<2.2	<1.9	<0.54	<0.033	<0.72	150	<4.7	<0.028	<2.8	5.97	33.6	ND	<2.2
Oct-16	<2.2	<1.9	<0.54	<0.2	<0.72	140	<4.7	<0.028	<2.8	6.48	23.3	4.3	<2.2
Jan-17	<2.2	<1.9	<0.54	<0.2	<0.72	120	<4.7	<0.028	<2.8	6.11	19.3	6	<2.2
Apr-17	<2.5	65	<0.6	<0.2	<1.3	130	<4.7	<0.028	<5	6.44	21.8	4.8	<2.5
Jul-17	<2.5	70	<0.6	<0.2	<1.3	110	<4.7	<0.091	<5	6.29	27.7	4.8	<2.5

Notes:
Data is presented in units of µg/L unless otherwise noted
ND = Non-detect
J = Indicates value is between the method detection limit and practical quantitation limit and is an estimated concentration
Value following "<" represents the method detection limit

Historical Water Quality Data for MW042TR

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Apr-94	ND	147	ND	3	ND	192	ND	ND	ND	6.95	21.1	4.88	ND
Oct-94	ND	129	ND	2.7	ND	237	ND	ND	ND	6.84	23.7	ND	ND
Apr-95	ND	167	ND	2.27	ND	222	ND	ND	ND	7.19	19.6	2.88	ND
Oct-95	ND	165	ND	2.41	ND	212	ND	ND	ND	6.79	21.2	13.7	ND
Apr-96	ND	155	ND	2.55	ND	198	ND	ND	ND	6.87	17.8	2.55	ND
Oct-96	ND	145	ND	2.89	ND	337	ND	ND	ND	6.95	19.4	ND	ND
Apr-97	ND	130	7.23	2.39	ND	232	ND	ND	ND	6.34	19.7	12.8	ND
Oct-97	ND	138	ND	2.6	ND	216	ND	ND	ND	5.17	20.7	11.8	ND
Apr-98	ND	135	ND	2.33	ND	225	ND	ND	ND	6.45	19.7	2.32	ND
Oct-98	ND	150	ND	2.17	ND	157	ND	ND	ND	6.7	20.4	6.63	ND
Apr-99	ND	140	ND	2.6	ND	220	ND	ND	ND	5.9	20	8.6	ND
Oct-99	ND	161	ND	2.06	ND	243	ND	ND	ND	6.08	19.4	3.39	ND
Apr-00	ND	173	ND	2.09	ND	219	ND	ND	ND	6.24	19	8.4	ND
Oct-00	ND	143	ND	2.18	ND	228	ND	ND	ND	6.49	20	3.61	ND
Jan-01	ND	137	ND	ND	ND	355	ND	ND	ND	6.98	17.5	9.27	ND
Jul-01	ND	133	ND	ND	ND	316	ND	ND	ND	6.77	19.8	8.29	ND
Jan-02	ND	123	ND	ND	ND	306	ND	ND	ND	6.53	16.1	3	ND
Jul-02	ND	ND	ND	ND	ND	413	ND	ND	ND	7.04	20.6	8.52	ND
Jan-03	ND	112	ND	ND	ND	351	ND	ND	ND	6.99	18	20.2	ND
Jul-03	ND	ND	ND	ND	ND	296	ND	ND	ND	7.14	20	11.53	ND
Jan-04	ND	ND	ND	ND	ND	370	ND	ND	ND	6.6	17.5	2.75	ND
Apr-04	ND	ND	ND	ND	ND	319	ND	ND	ND	7.1	18.9	8.9	ND
Jul-04	ND	150	ND	ND	ND	287	ND	ND	ND	6.9	21.1	6.98	ND
Oct-04	ND	ND	ND	ND	ND	271	ND	ND	ND	6.6	21	3.71	ND
Jan-05	ND	123	ND	ND	ND	252	ND	ND	ND	6.5	19.7	1.62	ND
Apr-05	ND	ND	ND	ND	ND	242	ND	ND	ND	6.7	19.9	16.4	ND
Jul-05	ND	ND	ND	ND	ND	327	ND	ND	ND	7	21	10.2	ND
Oct-05	ND	ND	ND	ND	ND	235	ND	ND	ND	6.5	18.4	7.9	ND
Jan-06	ND	ND	ND	ND	ND	232	ND	ND	ND	6.5	18.9	7	ND
May-06	ND	ND	ND	ND	ND	216	ND	ND	ND	6.9	20.1	12.4	ND
Aug-06	<1.5	61.9 J	<1.0	1.51 J	<1.0	237	NS	<0.06	ND	6.5	26.9	6	10.1 J
Nov-06	<1.5	69.5 J	<1.0	1.57 J	1.95 J	180	<2.5	<0.06	5.53 J	6.9	20.7	9.48	9.77 J
Jan-07	<1.5	55 J	<1.0	1.38 J	<1.0	231	<2.5	0.108 J	1.41 J	7	15.6	4.06	4.5 J
Apr-07	<1.5	63.1 J	<1.0	1.53 J	<1.0	233	<2.5	<0.06	1.33 J	6.3	22	15	3.19 J
Aug-07	<1.5	60.8 J	<1.0	1.53 J	<1.0	255	<2.5	<0.03	<1.0	6.5	21.8	2.26	7.27 J
Nov-07	<1.5	61.2 J	<1.0	1.54 J	<1.0	211	<2.5	<0.03	<1.0	6.7	19.3	8.51	4.89 J
Feb-08	<1.5	49.1 J	<1.0	1.45 J	<1.0	186	<2.5	0.0807 J	<1.0	6.7	18.1	12.2	3.74 J
Apr-08	<1.5	66.7 J	<1.0	1.45 J	<2.0	196.3	<2.5	<0.03	1.7 J	6.6	19.5	18.3	3.67 J
Jul-08	<1.5	109	<1.0	1.57 J	3.25 J	233	<2.5	<0.03	11.5 J	6.7	21.8	18.9	15.6 J
Nov-08	<1.5	68 J	<1.0	1.79 J	<2.0	201	<2.5	<0.067	1.96 J	7.1	17.5	23.8	7.23 J
Jan-09	<1.5	65.4 J	<1.0	1.58 J	<2.0	210	<2.5	<0.067	1.51 J	7.4	16.8	12.6	3.16 J
Apr-09	<1.5	83.4 J	<1.0	1.36 J	<2.0	229	2.87 J	<0.067	47.6 J	6.6	22.4	11.2	10.2 J
Jul-09	<1.6	58.4 J	<1.0	1.5 J	<1.0	222	<3.3	<0.066	16.5 J	6.4	22.2	4.06	4.63 J
Dec-09	<1.6	64.8	<1.0	1.45 J	<2.0	205	<3.3	<0.066	15	6.3	15.9	4.24	5.04 J

Historical Water Quality Data for MW042TR

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Jan-10	1.88 J	67.7 J	<1.0	1.43 J	1.84 J	197	<3.3	<0.066	11.5 J	6.4	18.1	7.8	24.4
Apr-10	<1.6	62.6 J	<1.0	1.47 J	1.27 J	212	<3.3	<0.066	6.65 J	7	19.7	13.1	4.04 J
Jul-10	<1.6	53.6 J	<1.0	1.55 J	1.8 J	226	<3.3	<0.066	5.97 J	6.6	23.6	11.8	11.5 J
Nov-10	<1.6	71.8 J	<1.0	1.53 J	2.8 J	187	<3.3	<0.066	10.7 J	6.6	18.7	19.9	16.3 J
Feb-11	<1.7	53.7 J	<1.0	1.53 J	<1.0	188	<3.3	<0.066	1.75 J	6.7	16.3	12.6	10.6 J
May-11	<1.7	62.6 J	<1.0	1.46 J	<1.0	199	<3.3	<0.066	4.68 J	6.7	20.4	15.9	<3.3
Jul-11	<1.7	55.1 J	<1.0	1.51 J	1.19 J	232	<3.3	<0.066	5.34 J	6.7	21.6	11.4	<3.3
Nov-11	<1.7	66.2 J	<1.0	1.43 J	1.78 J	213	<3.3	<0.066	6.33 J	6.5	20	18.7	7.47 J
Mar-12	<4.0	<7.5	<0.6	<0.11	<2.1	206	<1.9	<0.053	<10	6.7	19.5	NS	<4.5
May-12	<4.0	<7.5	<0.6	<0.11	<2.1	246	<1.9	<0.053	<10	6.79	23	5.1	<4.5
Aug-12	<4.0	<7.5	<0.6	<0.11	<2.1	ND	<1.9	<0.053	<10	6.52	20.1	2.2	<4.5
Oct-12	<4.0	<7.5	<0.6	<0.11	<2.1	218	<1.9	<0.053	<10	6.62	19.1	17	<4.5
Feb-13	<4.0	<7.5	<0.6	<0.11	<2.1	211	<1.9	<0.015	<10	6.56	19.9	15	<4.5
May-13	<4.0	<7.5	<0.6	<0.11	<2.1	210	<1.9	<0.015	<10	6.98	19.8	9.5	<4.5
Jul-13	<4.0	<7.5	<0.6	<0.11	<2.1	247	<1.9	<0.015	<10	7.08	25.8	9.6	<4.5
Oct-13	<4.0	<7.5	<0.6	<0.11	<2.1	232	<1.9	<0.015	<10	6.5	24.9	13	<4.5
Jan-14	<4.0	<7.5	<0.6	<0.11	<2.1	175	<1.9	<0.015	<10	6.95	14.6	9.8	<4.5
Apr-14	<4.0	<7.5	<0.6	<0.11	<2.1	217	<1.9	<0.015	<10	6.76	22.3	8.3	<4.5
Jul-14	<4.0	<7.5	<0.6	<0.11	<2.1	244	<1.9	<0.015	<10	6.52	25.3	6.9	<4.5
Oct-14	<4.0	<7.5	<0.6	<0.11	<2.1	218	<1.9	<0.015	<10	6.55	19.9	13	<4.5
Jan-15	<4.0	<7.5	<0.6	<0.11	<2.1	211	<2.1	<0.015	<10	6.33	17.8	7.9	<4.5
Apr-15	<2.2	<1.9	<0.54	<0.11	<0.72	220	<4.7	<0.028	<2.8	6.2	21.4	10	<2.2
Aug-15	<2.2	57	<0.54	<0.033	<0.72	226	<4.7	<0.028	<2.8	6.52	18.3	1.7	<2.2
Jan-16	<2.2	<1.9	<0.54	<0.033	<0.72	220	<4.7	<0.028	<2.8	6.61	19.5	7.1	<2.2
Apr-16	<2.2	<1.9	<0.54	<0.033	<0.72	260	<4.7	<0.028	<2.8	6.45	20.9	11	<2.2
Jul-16	<2.2	<1.9	<0.54	<0.033	<0.72	170	<4.7	<0.028	<2.8	6.07	26.9	11	<2.2
Oct-16	<2.2	<1.9	<0.54	<0.2	<0.72	160	<4.7	<0.028	<2.8	6.38	23.1	11	<2.2
Jan-17	<2.2	<1.9	<0.54	<0.2	<0.72	130	<4.7	<0.028	<2.8	6.06	19.4	7.6	<2.2
Apr-17	<2.5	52	<0.6	<0.2	<1.3	150	<4.7	<0.028	<5	6.3	22.5	7.4	<2.5
Jul-17	<2.5	59	<0.6	<0.2	<1.3	120	<4.7	<0.091	<5	6.11	29.3	9.7	<2.5

Notes:
Data is presented in units of µg/L unless otherwise noted
ND = Non-detect
J = Indicates value is between the method detection limit and practical quantitation limit and is an estimated concentration
Value following "<" represents the method detection limit

Historical Water Quality Data for MW043T

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
May-94	ND	ND	ND	5	ND	376	ND	ND	ND	6.67	18.7	11.5	ND
Oct-94	ND	ND	ND	3.57	ND	376	ND	ND	ND	7.57	21.7	15.6	ND
Apr-95	ND	139	ND	4.15	ND	341	ND	ND	ND	6.79	18.4	2.57	ND
Oct-95	ND	ND	ND	4.13	ND	349	ND	ND	ND	6.73	20.1	1.66	ND
Apr-96	ND	93	ND	4.68	ND	413	ND	ND	ND	6.6	20.2	3.66	ND
Oct-96	ND	ND	ND		ND	352	ND	ND	ND	6.08	19.8	16.4	ND
Apr-97	ND	129	ND	4.69	26.8	308	ND	ND	ND	6.23	20.5	2.78	ND
Oct-97	ND	ND	ND		ND	340	ND	ND	ND	6.55	19.1	18	ND
Oct-98	ND	ND	ND	ND	ND	327	ND	ND	ND	5.99	18.9	5.44	ND
Apr-99	ND	140	ND	5	22	400	ND	ND	ND	5.9	20	1.9	ND
Oct-99	ND	88.5	ND	4.23	18	332	ND	ND	ND	6.64	19	5.8	ND
Apr-00	3.03	48.5	ND	4.28	1.06	380	ND	ND	ND	6.03	19.4	8.14	4.4
Oct-00	ND	51.7	ND	4.33	ND	ND	ND	ND	ND	ND	ND	ND	ND
Apr-01	ND	116	ND	4.29	21.2	335	ND	ND	ND	6.14	18.5	3.7	ND
Oct-01	ND	ND	ND	4.29	ND	358	ND	ND	ND	6.26	19.9	7.7	ND
Apr-02	ND	ND	ND	4.04	ND	369	ND	ND	ND	6	20	3.26	ND
Oct-02	ND	ND	ND	4.33	ND	348	ND	ND	ND	6.14	21.7	2.9	ND
Apr-03	ND	381	ND	2.89	183	282	ND	ND	ND	6.19	19.7	14.9	ND
Oct-03	ND	ND	ND	4.32	ND	333	ND	ND	ND	6.41	20.9	2.04	ND
Jan-04	ND	ND	ND	3.73	ND	341	ND	ND	ND	6.4	17.8	0.95	ND
Apr-04	ND	204	ND	4.19	66.9	353	ND	ND	ND	6	19	5.15	ND
Jul-04	ND	ND	ND	4.22	ND	336	ND	ND	ND	6.6	20.6	10.79	ND
Oct-04	ND	ND	ND	4.29	ND	330	ND	ND	ND	6.5	21	3.42	ND
Jan-05	ND	ND	ND	4.06	ND	346	ND	ND	ND	6.4	20	4.1	ND
Apr-05	ND	ND	ND	4.14	ND	334	ND	ND	ND	6.3	20.7	6.83	ND
Jul-05	ND	ND	ND	4.08	ND	330	ND	ND	ND	6.6	23.7	8.88	ND
Oct-05	ND	ND	ND	4.26	ND	314	ND	ND	ND	6.6	19.1	2.31	ND
Jan-06	ND	ND	ND	4.03	ND	316	ND	ND	ND	6.6	20.3	1.48	ND
May-06	ND	ND	ND	4.25	ND	310	ND	ND	ND	6.5	21.5	10.1	ND
Aug-06	<1.5	38.1 J	<1.0	4	5.04 J	311	<2.5	<0.06	<1.0	6.6	24.6	3.55	8.3 J
Nov-06	<1.5	38.5 J	<1.0	4.51	5.68 J	253	<2.5	<0.06	<1.0	6.7	18.9	7.21	6.96 J
Jan-07	<1.5	45.9 J	<1.0	4.34	3.22 J	304	<2.5	0.114 J	1.45 J	6.5	16.5	1.88	3.69 J
Apr-07	<1.5	47.1 J	<1.0	4.21	6.4 J	266	<2.5	<0.06	1.8 J	6.4	22.7	3.81	2.63 J
Aug-07	<1.5	37.4 J	<1.0	4.37	6.16 J	336	<2.5	<0.03	<1.0	6.5	21.9	1.48	10.8 J
Nov-07	<1.5	36.8 J	<1.0	4.27	6.78 J	330	<2.5	<0.03	<1.0	6.7	20.1	2.4	4.84 J
Feb-08	<1.5	46.5 J	<1.0	4.07	27.3	259	<2.5	<0.03	2.8 J	6.7	18.6	2.62	5.85 J
Apr-08	<1.5	142	<1.0	4.49	50.5	241	<2.5	<0.03	4.38 J	6.4	19.7	21.4	2.73 J
Jul-08	<1.5	36.9 J	<1.0	4.46	6.14 J	308	<2.5	<0.03	<1.0	6.8	23.2	7.66	2.67 J
Nov-08	<1.5	36.8 J	<1.0	4.52	9.34 J	281	<2.5	<0.067	<1.0	7	19.4	3.28	9.42 J
Jan-09	<1.5	66.3 J	<1.0	3.99	26.6	301	<2.5	<0.067	1.84 J	7.2	18.8	9.77	4.55 J
Apr-09	<1.5	45.1 J	<1.0	4.4	3.93 J	314	<2.5	<0.067	1.42 J	6.4	21.6	8.47	9.61 J
Jul-09	<1.6	41.6 J	<1.0	4.29	8.88 J	308	<3.3	<0.066	<1.5	6.6	21.4	2.12	8.4 J
Oct-09	<1.6	38.5 J	<1.0	4.26	6.9 J	244	<3.3	<0.066	<1.5	6.7	18.5	1.98	8.96 J
Feb-10	<1.6	110	<1.0	4.14	184	211	<3.3	<0.066	5.5 J	7.1	15.8	2.95	<3.3

Historical Water Quality Data for MW043T

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
May-10	<1.6	48.6 J	<1.0	4.17	1.78 J	312	<3.3	<0.066	5.48 J	6.4	19.9	8.82	6.05 J
Jul-10	<1.6	37.4 J	<1.0	4.46	7.41 J	328	3.52 J	<0.066	<1.5	6.8	22.6	7.38	5.16 J
Nov-10	<1.6	36.8 J	<1.0	4.23	6.61 J	249	<3.3	<0.066	<1.5	7.1	18.2	10.7	<3.3
Feb-11	<1.7	42.8 J	<1.0	4.38	5.61 J	220	<3.3	<0.066	1.8 J	6.5	14.9	6.21	<3.3
May-11	<1.7	56.6 J	<1.0	3.85	8.82 J	292	<3.3	<0.066	11.8 J	6.6	19.3	10.8	<3.3
Jul-11	<1.7	44.8 J	<1.0	4.35	12.5 J	310	<3.3	<0.066	1.53 J	6.7	21.7	10.1	<3.3
Nov-11	<1.7	39	<1.0	4.26	8.76 J	287	<3.3	<0.066	1.8 J	6.7	20.6	10.4	<3.5
Mar-12	<4.0	<7.5	<0.6	4.7	130	315	<1.9	<0.053	<10	6.43	20	9.2	<4.5
May-12	<4.0	<7.5	<0.6	4.7	<2.1	329	<1.9	<0.053	<10	6.63	25	18	<4.5
Aug-12	<4.0	<7.5	<0.6	4.7	<2.1	ND	<1.9	<0.053	<10	6.67	22.4	6	<4.5
Oct-12	<4.0	<7.5	<0.6	4.5	<2.1	309	<1.9	<0.053	<10	6.53	19.5	2.1	<4.5
Feb-13	<4.0	<7.5	<0.6	4.8	<2.1	338	<1.9	<0.015	<10	6.49	18.8	2.8	<4.5
May-13	<4.0	<7.5	<0.6	4.4	81	305	<1.9	<0.015	<10	7.19	21.2	3.7	<4.5
Jul-13	<4.0	<7.5	<0.6	4.9	<2.1	379	<1.9	<0.015	<10	6.88	24.2	2.3	<4.5
Oct-13	<4.0	<7.5	<0.6	5.1	<2.1	316	<1.9	<0.015	<10	6.68	19.8	6.2	<4.5
Feb-14	<4.0	<7.5	<0.6	4.6	27	267	<1.9	<0.015	<10	6.68	15.7	7.7	<4.5
Apr-14	<4.0	<7.5	<0.6	5	<2.1	349	<1.9	<0.015	<10	6.47	20.7	6.7	<4.5
Jul-14	<4.0	<7.5	<0.6	4.8	<2.1	359	<1.9	<0.015	<10	6.72	24	7.9	<4.5
Oct-14	<4.0	<7.5	<0.6	4.9	<2.1	355	<1.9	<0.015	<10	6.73	22.5	3.5	<4.5
Jan-15	<4.0	<7.5	<0.6	5.3	<2.1	273	<2.1	<0.015	<10	6.66	16.6	6.3	<4.5
Apr-15	<2.2	<1.9	<0.54	4.6	<0.72	320	<4.7	<0.028	<2.8	6.14	22.2	5.3	<2.2
Aug-15	<2.2	<1.9	<0.54	4.8	<0.72	420	<4.7	<0.028	<2.8	7.04	28.7	8.9	<2.2
Oct-15	<2.2	<1.9	<0.54	4.9	<0.72	318	<4.7	<0.028	<2.8	6.4	24	4.4	<2.2
Jan-16	<2.2	<1.9	<0.54	5.1	<0.72	339	<4.7	<0.028	<2.8	6.83	18.4	9.3	<2.2
Apr-16	<2.2	<1.9	<0.54	5	<0.72	460	<4.7	<0.028	<2.8	6.79	21.6	4.7	<2.2
Aug-16	<2.2	<1.9	<0.54	4.8	<0.72	230	<4.7	<0.028	<2.8	6.88	26.1	2.4	<2.2
Oct-16	<2.2	<1.9	<0.54	4.8	<0.72	200	<4.7	<0.028	<2.8	6.37	27	3.5	<2.2
Jan-07	<2.2	150	<0.54	4.5	220	140	<4.7	<0.028	<2.8	6.54	19.1	4.6	<2.2
Apr-17	<2.5	77	<0.6	4.9	<1.3	200	<4.7	<0.028	<5	6.32	21.4	2.9	<2.5
Jul-17	<2.5	61	<0.6	5.2	<1.3	170	<4.7	<0.091	<5	6.26	25.3	3.4	<2.5

Notes:
Data is presented in units of µg/L unless otherwise noted
ND = Non-detect
J = Indicates value is between the method detection limit and practical quantitation limit and is an estimated concentration
Value following "<" represents the method detection limit

Historical Water Quality Data for MW045T

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
May-94	ND	ND	ND	6	ND	446	ND	ND	ND	6.88	19	1.5	ND
Oct-94	ND	ND	ND	7.63	ND	473	ND	ND	ND	6.71	20.3	6.14	ND
Apr-95	ND	ND	ND	8.26	ND	369	ND	ND	ND	6.9	16.7	7.79	ND
Oct-95	ND	ND	ND	8.63	ND	355	ND	ND	ND	7.06	20.5	8.43	ND
Apr-96	ND	64.6	ND	8.69	ND	460	ND	ND	ND	6.77	20.8	ND	ND
Oct-96	ND	ND	ND	8.99	ND	517	ND	ND	ND	6.69	18.8	35.8	ND
Apr-97	ND	ND	ND	9	ND	446	ND	ND	ND	6.67	19.8	5.6	ND
Oct-97	ND	ND	ND	8.35	ND	489	ND	ND	ND	6.3	19.7	2.1	ND
Apr-98	ND	ND	ND	7.72	ND	403	ND	ND	ND	6.48	19.4	4.82	ND
Oct-98	ND	ND	ND	8.12	ND	473	ND	ND	ND	6.61	19.9	9	ND
Apr-99	ND	ND	ND	9.7	ND	480	ND	ND	ND	6.3	19	8.2	ND
Oct-99	ND	ND	ND	7.62	ND	471	ND	ND	ND	6.41	19.8	1.75	ND
Apr-00	ND	ND	ND	8.57	ND	362	ND	ND	ND	6.41	19	4	ND
Oct-00	ND	57.1	ND	8.16	ND	ND	ND	ND	ND	ND	ND	ND	ND
Apr-01	ND	ND	ND	7.15	ND	456	ND	ND	ND	6.38	19.4	1.85	ND
Oct-01	ND	ND	ND	7.21	ND	466	ND	ND	ND	6.33	19.4	7.08	ND
Apr-02	ND	ND	ND	8.1	ND	478	ND	ND	ND	6.39	20	2.8	ND
Oct-02	ND	ND	ND	7.89	ND	439	ND	ND	ND	7.1	21.1	2.74	ND
Apr-03	ND	ND	ND	8.2	ND	442	ND	ND	ND	6.48	19.2	1.16	ND
Oct-03	ND	ND	ND	8.84	ND	420	ND	ND	ND	6.36	19.3	12.56	ND
Jan-04	ND	ND	ND	7.75	ND	419	ND	ND	ND	6.4	16.9	2.85	ND
Apr-04	ND	ND	ND	8	ND	421	ND	ND	ND	6.4	18.6	16.2	ND
Jul-04	ND	ND	ND	8.12	ND	436	ND	ND	ND	6.6	20.6	9.17	ND
Oct-04	ND	ND	ND	8.33	ND	422	ND	ND	ND	6.5	20.7	4.22	ND
Jan-05	ND	ND	ND	8.18	ND	415	ND	ND	ND	6.6	19.7	18.25	ND
Apr-05	ND	ND	ND	7.9	ND	400	ND	ND	ND	6.8	20.6	9.72	ND
Jul-05	ND	ND	ND	8	ND	402	ND	ND	ND	6.5	21	11.7	ND
Oct-05	ND	ND	ND	-	ND	401	ND	ND	ND	6.5	19.5	2.94	ND
Jan-06	ND	ND	ND	7.56	ND	383	ND	ND	ND	6.4	18.9	2.12	ND
May-06	ND	ND	ND	8.08	ND	386	ND	ND	ND	6.6	21.1	11.35	ND
Aug-06	2 J	47.1 J	<1.0	7.43	<1.0	373	<2.5	<0.06	<1.0	6.8	24.8	13.2	12.6 J
Nov-06	<1.5	48.8 J	<1.0	7.6	<1.0	303	<2.5	<0.06	<1.0	6.8	21.1	12.5	8.07 J
Jan-07	<1.5	48.4 J	<1.0	8.55	<1.0	362	<2.5	0.11 J	1.35 J	6.7	17.6	10.7	3.82 J
Apr-07	2.92 J	47.5 J	<1.0	8.03	<1.0	354	<2.5	<0.06	<1.0	6.5	20.5	6.2	<2.0
Aug-07	<1.5	46.5 J	<1.0	8.01	<1.0	425	<2.5	<0.03	<1.0	6.5	22	4.21	9.3 J
Nov-07	2.79 J	43.3	<1.0	7.79	<1.0	319	<2.5	<0.03	1.92 J	6.9	18.7	3.19	<2.6
Feb-08	<1.5	34.5 J	<1.0	7.95	<2.0	321	<2.5	0.144 J	<1.0	6.7	18.3	3.18	4.87 J
Apr-08	<1.5	47.3 J	<1.0	7.96	<2.0	311	<2.5	<0.03	<1.0	6.9	20.4	16.2	3.14 J
Jul-08	<1.5	29.5 J	<1.0	7.96	<2.0	358	<2.5	<0.03	<1.0	6.6	21.9	10.2	4.91 J
Nov-08	2.14 J	47.6 J	<1.0	8.27	<2.0	323	<2.5	<0.067	1 J	7.1	19.5	6.56	10.5 J
Jan-09	<1.5	45.5 J	<1.0	7.69	<2.0	325	<2.5	<0.067	<1.0	6.6	18.4	10	3.56 J
Apr-09	<1.5	46 J	<1.0	7.66	<2.0	337	<2.5	<0.067	<1.0	6.8	21.1	9.87	8.61 J
Jul-09	<1.6	44.2 J	<1.0	7.61	<1.0	351	<3.3	<0.066	<1.5	6.4	22.4	3.09	6.07 J
Oct-09	<1.6	38.7 J	<1.0	7.49	1.11 J	341	<3.3	<0.066	<1.5	6.6	17.7	3.13	10.2 J

Historical Water Quality Data for MW045T

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Jan-10	2.39 J	48.6 J	<1.0	7.55	<1.0	317	<3.3	<0.066	<1.5	6.8	18.1	8.81	24.9
Apr-10	<1.6	116	<1.0	8.1	<1.0	347	<3.3	<0.066	<1.5	7	20.7	8.28	<3.3
Jul-10	<1.6	44.1 J	<1.0	7.84	<1.0	361	<3.3	<0.066	<1.5	7.1	23.1	6.71	6.82 J
Nov-10	<1.6	38.6 J	<1.0	7.97	<1.0	304	<3.3	<0.066	<1.5	6.8	18.9	9.87	3.53 J
Feb-11	<1.7	46.4 J	1.12 J	8.04	<1.0	325	<3.3	<0.066	<1.5	6.7	18.7	11.7	12.1 J
May-11	<1.7	46.7 J	<1.0	7.96	<1.0	356	<3.3	<0.066	1.57 J	6.6	19.9	9.33	<3.3
Jul-11	<1.7	43.6 J	<1.0	7.67	<1.0	381	<3.3	<0.066	<1.5	6.8	21.1	10.6	<3.3
Nov-11	<1.7	47.3 J	<1.0	7.51	<1.0	359	<3.3	<0.066	<1.5	6.5	19.6	13.9	<3.3
Mar-12	<4.0	<7.5	<0.6	8.5	<2.1	375	<1.9	<0.053	<10	6.63	20	8.76	<4.5
May-12	<4.0	<7.5	<0.6	8.2	<2.1	368	<1.9	<0.053	<10	6.75	21.8	10	<4.5
Aug-12	<4.0	<7.5	<0.6	8.2	<2.1	ND	<1.9	<0.053	<10	6.5	16.5	ND	<4.5
Oct-12	<4.0	<7.5	<0.6	8.4	<2.1	380	<1.9	<0.053	<10	6.65	19.4	7	<4.5
Feb-13	<4.0	<7.5	<0.6	8.4	<2.1	355	<1.9	<0.015	<10	6.5	20.3	13	<4.5
May-13	<4.0	<7.5	<0.6	8.5	<2.1	345	<1.9	<0.015	<10	6.79	20.2	4.5	<4.5
Jul-13	<4.0	<7.5	<0.6	8	<2.1	371	<1.9	<0.015	<10	7.05	24.2	7.3	<4.5
Oct-13	<4.0	<7.5	<0.6	8.7	<2.1	366	<1.9	<0.015	<10	6.65	23.7	33	<4.5
Jan-14	<4.0	<7.5	<0.6	8.1	<2.1	394	<1.9	<0.015	<10	7.15	15.6	9.7	<4.5
Apr-14	<4.0	<7.5	<0.6	8.8	<2.1	336	<1.9	<0.015	<10	6.82	20.8	9.6	<4.5
Jul-14	<4.0	<7.5	<0.6	8.1	<2.1	344	<1.9	<0.015	<10	6.9	23.3	32	<4.5
Oct-14	<4.0	<7.5	<0.6	8.3	<2.1	329	<1.9	<0.015	<10	6.6	22.3	5.2	<4.5
Jan-15	<4.0	<7.5	<0.6	8	<2.1	259	<2.1	<0.015	<10	6.29	15.2	14	<4.5
Apr-15	<2.2	<1.9	<0.54	8.5	<0.72	333	<4.7	<0.028	<2.8	6.49	18.6	3.7	<2.2
Aug-15	<2.2	<1.9	<0.54	8.2	<0.72	405	<4.7	<0.028	<2.8	6.27	24.3	8	<2.2
Oct-15	<2.2	<1.9	<0.54	8	<0.72	370	<4.7	<0.028	<2.8	6.38	18.4	3.5	<2.2
Jan-16	<2.2	<1.9	<0.54	8.4	<0.72	348	<4.7	<0.028	<2.8	6.45	19.2	84	<2.2
Apr-16	<2.2	<1.9	<0.54	8.4	<0.72	410	<4.7	<0.028	<2.8	6.8	21.8	7.1	<2.2
Jul-16	<2.2	<1.9	<0.54	8.3	<0.72	240	<4.7	<0.028	<2.8	6.26	25.9	6.1	<2.2
Oct-16	<2.2	<1.9	<0.54	8	<0.72	210	<4.7	<0.028	<2.8	6.47	25.1	11	<2.2
Jan-17	<2.2	<1.9	<0.54	8.3	<0.72	140	<4.7	<0.028	<2.8	6.16	19.8	12	<2.2
Apr-17	<2.5	45	<0.6	8	<1.3	345	<4.7	<0.028	<5	6.91	22.2	7.8	<2.5
Jul-17	<2.5	45	<0.6	8.4	<1.3	170	<4.7	<0.091	<5	6.53	25.8	9.2	<2.5

Notes:
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ND = Non-detect
J = Indicates value is between the method detection limit and practical quantitation limit and is an estimated concentration
Value following "<" represents the method detection limit

Historical Water Quality Data for MW048TR

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Jul-96	ND	304	ND	ND	ND	277	ND	ND	ND	8.21	21	7.96	23.2
Jan-97	ND	381	ND	ND	ND	251	ND	ND	ND	7.07	18.1	6.98	ND
Jul-97	ND	380	ND	ND	ND	191	ND	ND	ND	7.65	19.5	5.98	ND
Jan-98	ND	593	ND	ND	ND	363	ND	ND	ND	7.3	18.3	4.56	ND
Jul-98	ND	448	ND	ND	ND	475	ND	ND	ND	7.21	21.2	1.93	ND
Jan-99	ND	731	ND	ND	ND	420	ND	ND	ND	7.24	18.4	3	ND
Jul-99	ND	716	ND	ND	ND	450	ND	ND	ND	6.74	19.2	4.5	ND
Jan-00	ND	572	ND	ND	ND	348	ND	ND	ND	7.03	18.6	9.5	ND
Jul-00	ND	440	ND	ND	ND	308	ND	ND	ND	6.76	20.2	4.5	ND
Jan-01	ND	468	ND	ND	ND	348	ND	ND	ND	6.87	17.9	2.98	ND
Jul-01	ND	545	ND	ND	ND	401	ND	ND	ND	7.17	19.8	2.45	ND
Jan-02	ND	519	ND	ND	ND	329	ND	ND	ND	7.17	18.1	12	ND
Jul-02	ND	501	ND	ND	ND	427	ND	ND	ND	7.12	20	4.95	ND
Jan-03	ND	142	ND	ND	ND	379	ND	ND	ND	7.09	17.8	2.25	ND
Jul-03	ND	291	ND	ND	ND	384	ND	ND	ND	7.1	21.1	2.49	ND
Jan-04	ND	411	ND	ND	ND	321	ND	ND	ND	7.2	17.5	10.5	ND
Apr-04	ND	387	ND	ND	ND	410	ND	ND	ND	7.2	18.6	3.65	ND
Jul-04	ND	401	ND	ND	ND	332	ND	ND	ND	7.5	19.4	12.93	ND
Oct-04	ND	295	ND	ND	ND	319	ND	ND	ND	7	20.1	1.42	ND
Jan-05	ND	161	ND	ND	ND	363	ND	ND	ND	7.1	19	12.8	ND
Apr-05	ND	273	ND	ND	ND	209	ND	ND	ND	7.5	18.7	4.8	ND
Jul-05	ND	293	ND	ND	ND	328	ND	ND	ND	6.9	21.1	6.5	ND
Oct-05	ND	381	ND	ND	ND	119	ND	ND	ND	8.9	20.3	15	ND
Jan-06	ND	338	ND	ND	ND	227	ND	ND	ND	7.7	19.4	4.37	ND
May-06	-	-	-	-	-	339	-	-	-	7	21.3	8.21	-
Mar-12	<4.0	110	<0.6	<0.11	<2.1	181	<1.9	<0.015	<10	6.82	18.2	3.7	<4.5
May-12	<4.0	120	<0.6	<0.11	<2.1	211	<1.9	<0.015	<10	6.5	20.7	27	<4.5
Aug-12	<4.0	110	<0.6	<0.11	<2.1	226	<1.9	<0.015	<10	6.48	29.3	6.1	<4.5
Feb-13	<4.0	110	<0.6	<0.11	<2.1	187	<1.9	<0.015	<10	7.12	17.3	8.7	<4.5
May-13	<4.0	110	<0.6	<0.11	<2.1	172	<1.9	<0.015	<10	7.1	19.6	7.5	<4.5
Jul-13	<4.0	130	<0.6	<0.11	<2.1	226	<1.9	<0.015	<10	6.88	29.4	5.8	<4.5
Oct-13	<4.0	140	<0.6	<0.11	<2.1	220	<1.9	<0.015	<10	6.38	24.2	9.6	<4.5
Jan-14	<4.0	110	<0.6	<0.11	<2.1	139	<1.9	<0.015	<10	7.14	7.2	9.7	<4.5
Apr-14	<4.0	120	<0.6	<0.11	<2.1	387	<1.9	<0.015	<10	6.09	25.1	9.7	<4.5
Jul-14	<4.0	<7.5	<0.6	<0.11	<2.1	193	<1.9	<0.015	<10	6.43	26	5.7	<4.5
Oct-14	<4.0	120	<0.6	<0.11	<2.1	189	<1.9	<0.015	<10	6.54	24.5	10	<4.5
Jan-15	<4.0	110	<0.6	<0.11	<2.1	175	<2.1	<0.015	<10	6.62	17.3	3.6	<4.5
Apr-15	<2.2	<1.9	<0.54	<0.11	<0.72	183	<4.7	<0.028	<2.8	6.71	21.5	5.9	<2.2
Aug-15	<2.2	100	<0.54	<0.11	<0.72	250	<4.7	<0.028	<2.8	6.68	30.9	7.9	<2.2
Oct-15	<2.2	110	<0.54	<0.033	<0.72	227	<4.7	<0.028	<2.8	5.94	23.5	6.4	<2.2
Feb-16	<2.2	120	<0.54	<0.033	<0.72	221	<4.7	<0.028	<2.8	6.63	12.8	7.4	<2.2
Apr-16	<2.2	120	<0.54	<0.033	<0.72	240	<4.7	<0.028	<2.8	6.49	22	8.4	<2.2
Aug-16	<2.2	110	<0.54	<0.033	<0.72	160	<4.7	<0.028	<2.8	6.41	25.6	6.1	<2.2

Historical Water Quality Data for MW048TR

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Oct-16	<2.2	**100**	<0.54	<0.2	<0.72	**140**	<4.7	<0.028	<2.8	**6.37**	**27.9**	**6**	<2.2
Jan-17	<2.2	<1.9	<0.54	<0.2	<0.72	**130**	<4.7	<0.028	<2.8	**6.11**	**19.1**	**5.5**	<2.2
Apr-17	<2.5	**110**	<0.6	<0.2	<1.3	**160**	<4.7	<0.028	<5	**6.63**	**23.3**	**7.8**	<2.5
Jul-17	<2.5	**100**	<0.6	<0.2	<1.3	**130**	<4.7	<0.091	<5	**6.26**	**24.2**	**6.4**	<2.5

Notes:
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Value following "<" represents the method detection limit

Historical Water Quality Data for MW049T

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
May-94	ND	ND	ND	3	ND	151	ND	ND	ND	7.13	18.3	0.71	ND
Oct-94	ND	ND	ND	ND	ND	146	ND	ND	ND	6.55	19.1	1.13	ND
Apr-95	ND	ND	ND	ND	ND	131	ND	ND	ND	6.71	18.3	0.37	ND
Oct-95	ND	ND	ND	ND	ND	137	ND	ND	ND	6.34	19.3	ND	ND
Apr-96	ND	49	ND	1.72	ND	142	ND	ND	ND	6.43	18.1	ND	ND
Oct-96	ND	ND	ND		ND	203	ND	ND	ND	6.24	18.2	1.07	ND
Apr-97	ND	ND	ND	ND	ND	145	ND	ND	ND	5.9	17.5	1.08	ND
Oct-97	ND	ND	ND		ND	143	ND	ND	ND	6.4	19.2	1.57	ND
Oct-98	ND	ND	ND	ND	ND	128	ND	ND	ND	5.69	18.7	ND	ND
Apr-99	ND	ND	ND	1.7	ND	140	ND	ND	ND	5.8	18	0.5	ND
Oct-99	ND	66	ND	ND	ND	137	ND	ND	ND	6.4	18.2	1.24	ND
Apr-00	ND	ND	ND	ND	ND	154	ND	ND	ND	6.08	18.6	ND	ND
Oct-00	ND	ND	ND	ND	ND	163	ND	ND	ND	6.22	18.6	1.39	ND
Apr-01	ND	ND	ND	ND	ND	156	ND	ND	ND	6.16	20	0.68	ND
Oct-01	ND	ND	ND	ND	ND	152	ND	ND	ND	6.34	19.2	0.46	ND
Apr-02	ND	ND	ND	6.58	ND	134	ND	ND	ND	6.54	19.7	0.45	ND
Oct-02	ND	ND	ND	ND	ND	162	ND	ND	ND	6.43	19.4	2.62	ND
Apr-03	ND	ND	ND	ND	ND	150	ND	ND	ND	6.55	17.5	0.6	ND
Oct-03	ND	ND	ND	ND	ND	149	ND	ND	ND	6.53	19.2	0.98	ND
Jan-04	ND	ND	ND	ND	ND	150	ND	ND	ND	6.5	17.5	1.38	ND
Apr-04	ND	ND	ND	ND	ND	209	ND	ND	ND	6	17.2	1.56	ND
Jul-04	ND	ND	ND	ND	ND	166	ND	ND	ND	6.8	20.6	2.55	ND
Oct-04	ND	ND	ND	ND	ND	148	ND	ND	ND	6.3	19.8	1.17	ND
Jan-05	ND	ND	ND	ND	ND	153	ND	ND	ND	6.5	19	9.12	ND
Apr-05	ND	ND	ND	ND	ND	157	ND	ND	ND	6.5	18.7	1.56	ND
Jul-05	ND	ND	ND	ND	ND	148	ND	ND	ND	6.4	20.5	2.9	ND
Oct-05	ND	ND	ND	ND	ND	145	ND	ND	ND	6.4	19	3.67	ND
Jan-06	ND	ND	ND	ND	ND	143.1	ND	ND	ND	6.2	18.9	2.04	ND
May-06	ND	ND	ND	ND	ND	143	ND	ND	ND	6.4	20.4	5.62	ND
Aug-06	<1.5	59.2 J	<1.0	1.31 J	1.45 J	121	<2.5	<0.06	<1.0	6.4	22.8	1.69	5.94 J
Nov-06	<1.5	63.8 J	<1.0	1.43 J	<1.0	110	<2.5	<0.06	<1.0	6.6	21.2	1.11	3.22 J
Feb-07	<1.5	64.3 J	<1.0	1.45 J	1.04 J	113	<2.5	<0.06	<1.0	6.5	17.5	0.63	7.14 J
Apr-07	<1.5	63.6 J	<1.0	1.45 J	<1.0	133	<2.5	<0.06	<1.0	6.4	19.5	1.83	<2.0
Aug-07	<1.5	64.6 J	<1.0	1.43 J	<1.0	129	<2.5	<0.03	<1.0	7	21.2	NS	<2.0
Nov-07	<1.5	61.6 J	<1.0	1.37 J	<1.0	135	<2.5	<0.03	<1.0	6.5	19.8	3.69	3.59 J
Feb-08	<1.5	63.1 J	<1.0	1.39 J	<2.0	118	<2.5	<0.03	<1.0	6.7	19.1	1.66	4.73 J
Apr-08	<1.5	65.6 J	<1.0	1.46 J	<2.0	128	<2.5	<0.03	<1.0	6.5	19.5	12	2.63 J
Aug-08	<1.5	61.8 J	<1.0	1.45 J	<2.0	136	<2.5	<0.03	<1.0	6.4	20.6	5.31	6.39 J
Nov-08	<1.5	58.6 J	<1.0	1.45 J	<2.0	130	<2.5	<0.067	<1.0	6.9	18.8	4.4	6.81 J
Jan-09	<1.5	62.9 J	<1.0	1.35 J	<2.0	118	<2.5	<0.067	<1.0	6.2	17.9	12	2.7 J
May-09	<1.5	62.6 J	<1.0	1.36 J	<2.0	126	<2.5	<0.067	<1.0	6.3	19.7	6.91	5.1 J
Jul-09	<1.6	64.4 J	<1.0	1.33 J	2.43 J	135	<3.3	<0.066	<1.5	5.6	20.8	3.03	3.49 J
Oct-09	3.9 J	66.7 J	<1.0	1.31 J	1.32 J	128	<3.3	<0.066	<1.5	6.5	18.1	2.99	5.87 J
Feb-10	<1.6	61.5 J	<1.0	1.33 J	<1.0	126	<3.3	<0.066	<1.5	6.5	17.8	4.76	13 J

Historical Water Quality Data for MW049T

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Apr-10	<1.6	64 J	<1.0	1.44 J	1.61 J	121	<3.3	<0.066	<1.5	6.5	19.5	6.65	<3.3
Jul-10	<1.6	68.4 J	<1.0	1.44 J	1.37 J	141	<3.3	<0.066	<1.5	6.5	21	8.65	<3.3
Nov-10	<1.6	62.4 J	<1.0	1.46 J	1.61 J	130	<3.3	<0.066	<1.5	6.1	19.3	10.2	<3.3
Feb-11	<1.7	67.2 J	<1.0	1.35 J	1.17 J	127	<3.3	<0.066	<1.5	6.3	17.8	10	<3.3
May-11	<1.7	63.3 J	<1.0	1.43 J	1.78 J	129	<3.3	<0.066	<1.5	6.4	19.2	7.91	<3.3
Aug-11	<1.7	66.2 J	<1.0	1.41 J	1.77 J	123	<3.3	0.108 J	<1.5	6.6	20.4	8.15	<3.3
Nov-11	<1.7	64.4 J	<1.0	1.37 J	<1.0	127	<3.3	<0.066	<1.5	6.4	19.5	9.91	<3.3
Mar-12	<4.0	<7.5	<0.6	<0.11	<2.1	131	<1.9	<0.053	<10	6.9	19.7	10.80	<4.5
May-12	<4.0	<7.5	<0.6	<0.11	<2.1	161	<1.9	<0.053	<10	6.43	23	9.8	<4.5
Aug-12	<4.0	<7.5	<0.6	<0.11	<2.1	154	<1.9	<0.053	<10	6.31	23.3	ND	<4.5
Oct-12	<4.0	<7.5	<0.6	<0.11	<2.1	151	<1.9	<0.053	<10	6.41	21	6.5	<4.5
Feb-13	<4.0	<7.5	<0.6	<0.11	<2.1	120	<1.9	<0.015	<10	6.22	16.8	2.1	<4.5
May-13	<4.0	<7.5	<0.6	<0.11	<2.1	136	<1.9	<0.015	<10	6.59	18.6	ND	<4.5
Aug-13	<4.0	<7.5	<0.6	<0.11	<2.1	142	<1.9	<0.015	<10	6.68	21.2	1.1	<4.5
Oct-13	<4.0	70	<0.6	<0.11	<2.1	147	<1.9	<0.015	<10	6.33	23.4	ND	<4.5
Jan-14	<4.0	<7.5	<0.6	<0.11	<2.1	117	<1.9	<0.015	<10	6.78	14.1	3.2	<4.5
Apr-14	<4.0	<7.5	<0.6	<0.11	<2.1	139	<1.9	<0.015	<10	6.47	21.1	2.4	<4.5
Jul-14	<4.0	<7.5	<0.6	<0.11	<2.1	169	<1.9	<0.015	<10	6.26	26.1	3.9	<4.5
Oct-14	<4.0	<7.5	<0.6	<0.11	<2.1	155	<1.9	<0.015	<10	6.44	21.3	0.91	<4.5
Jan-15	<4.0	<7.5	<0.6	<0.11	<2.1	126	<2.1	<0.015	<10	6.57	16.4	1.6	<4.5
Apr-15	<2.2	<1.9	<0.54	<0.11	<0.72	139	<4.7	<0.028	<2.8	6.41	22	3.1	<2.2
Aug-15	<2.2	<1.9	<0.54	<0.11	<0.72	157	<4.7	<0.028	<2.8	6.79	24.1	3.7	<2.2
Oct-15	<2.2	<1.9	<0.54	<0.033	<0.72	146	<4.7	<0.028	<2.8	6.42	21	4.9	<2.2
Jan-16	<2.2	<1.9	<0.54	<0.033	<0.72	141	<4.7	<0.028	<2.8	6.67	19	3.7	<2.2
Apr-16	<2.2	<1.9	<0.54	<0.033	<0.72	180	<4.7	<0.028	<2.8	6.47	20.9	1.3	<2.2
Aug-16	<2.2	<1.9	<0.54	<0.033	<0.72	130	<4.7	<0.028	<2.8	6.19	22.3	ND	<2.2
Oct-16	<2.2	<1.9	<0.54	<0.2	<0.72	120	<4.7	<0.028	<2.8	6.29	22.4	3.3	<2.2
Jan-17	<2.2	<1.9	<0.54	<0.2	<0.72	110	<4.7	<0.028	<2.8	5.89	20.2	2.8	<2.2
Apr-17	<2.5	69	<0.6	<0.2	<1.3	120	<4.7	<0.028	<5	6.57	21.9	5.2	<2.5
Jul-17	<2.5	64	<0.6	<0.2	<1.3	110	<4.7	<0.091	<5	6.04	21.9	2.9	<2.5

Notes:
Data is presented in units of µg/L unless otherwise noted
ND = Non-detect
J = Indicates value is between the method detection limit and practical quantitation limit and is an estimated concentration
Value following "<" represents the method detection limit

Historical Water Quality Data for MW050T

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Apr-94	ND	ND	ND	2	ND	198	ND	ND	ND	7.21	22	10.43	ND
Jul-94	ND	ND	ND	2.12	ND	220	ND	ND	ND	7.33	21.5	11	ND
Jan-95	ND	ND	ND	ND	ND	194	ND	ND	ND	6.44	21	2.93	ND
Jul-95	ND	ND	ND	ND	ND	174	ND	ND	ND	6.52	21.7	8.1	24.3
Jan-96	ND	ND	ND	2.05	ND	155	ND	ND	ND	6.43	17.5	12.7	ND
Jul-96	ND	ND	ND	ND	ND	187	ND	ND	ND	6.34	18.8	2.53	ND
Jan-97	ND	ND	ND	ND	ND	217	ND	ND	ND	5.82	18.2	4.76	ND
Jul-97	ND	ND	ND	ND	ND	219	ND	ND	ND	6.33	19.5	4.35	ND
Jan-98	ND	ND	ND	2	ND	235	ND	ND	ND	6.24	18.2	6.9	ND
Jul-98	ND	ND	ND	ND	ND	247	ND	ND	ND	6.61	19.6	5.91	ND
Jan-99	ND	ND	ND	ND	ND	263	ND	ND	ND	6.12	18.3	3.2	ND
Jul-99	ND	ND	ND	1.5	ND	281	ND	ND	ND	6.49	19.2	6.25	ND
Jan-00	ND	ND	ND	ND	ND	217	ND	ND	ND	6.07	18.7	9.51	ND
Jul-00	ND	ND	ND	ND	ND	248	ND	ND	ND	6.13	20.5	9.58	ND
Jan-01	ND	ND	ND	ND	ND	314	ND	ND	ND	6.32	18.6	13.4	ND
Jul-01	ND	ND	ND	ND	ND	246	ND	ND	ND	6.42	20.1	11.91	ND
Jan-02	ND	ND	ND	ND	ND	246	ND	ND	ND	6.55	18.3	5.34	ND
Jul-02	ND	ND	ND	ND	ND	240	ND	ND	ND	6.54	21.9	14.78	ND
Jan-03	ND	ND	ND	ND	ND	239	ND	ND	ND	6.27	17.8	4.56	ND
Jul-03	ND	ND	ND	ND	ND	210	ND	ND	ND	6.56	22.5	13.56	ND
Jan-04	ND	ND	ND	ND	ND	199	ND	ND	ND	6.8	18.3	8	ND
Apr-04	ND	ND	ND	ND	ND	193	ND	ND	ND	6.1	18.6	11.15	ND
Jul-04	ND	ND	ND	ND	ND	228	ND	ND	ND	6.5	19.8	4.53	ND
Oct-04	ND	ND	ND	ND	ND	194	ND	ND	ND	6.3	19.8	3.75	ND
Jan-05	ND	ND	ND	ND	ND	212	ND	ND	ND	6.6	19.3	4.34	ND
Apr-05	ND	ND	ND	ND	ND	182	ND	ND	ND	6.7	18.6	9.92	ND
Jul-05	ND	ND	ND	ND	ND	200	ND	ND	ND	6.3	21	6.8	ND
Oct-05	ND	ND	ND	ND	ND	199	ND	ND	ND	6.4	18.7	2.11	ND
Jan-06	ND	ND	ND	ND	ND	175.9	ND	ND	ND	6.8	19	19.7	ND
May-06	ND	ND	ND	ND	ND	174	ND	ND	ND	6.6	19	10.6	ND
Aug-06	<1.5	79.7 J	<1.0	1.66 J	1.8 J	189	4.13 J	<0.06	<1.0	6.8	24.7	10.6	5.59 J
Nov-06	<1.5	87.2 J	<1.0	1.68 J	<1.0	133	<2.5	<0.06	<1.0	7	20.3	7.71	7.91 J
Feb-07	<1.5	86 J	<1.0	1.65 J	<1.0	134	<2.5	<0.06	1.13 J	6.7	17.6	7.16	9.24 J
Apr-07	<1.5	89.2 J	<1.0	1.67 J	<1.0	169	<2.5	<0.06	<1.0	6.4	22.1	3.12	<2.0
Aug-07	<1.5	72.3 J	<1.0	1.62 J	5.77 J	187	<2.5	<0.03	1.41 J	6.9	23.3	7.57	<2.0
Nov-07	2.41 J	83.8 J	<1.0	1.61 J	<1.0	148	<2.5	<0.03	<1.0	6.9	20.3	7.74	3.58 J
Feb-08	<1.5	98.4 J	<1.0	1.64 J	<2.0	139	<2.5	<0.03	<1.0	6.8	18.8	6.39	3.02 J
Apr-08	<1.5	63.9 J	<1.0	1.57 J	2.08 J	154	<2.5	<0.03	<1.0	6.4	18.9	7.08	3.39 J
Aug-08	<1.5	90.2 J	<1.0	1.58 J	<2.0	162	<2.5	<0.03	<1.0	7	22	14.7	7.28 J
Nov-08	3.24 J	65.5 J	<1.0	1.65 J	3.2 J	186	<2.5	<0.067	<1.0	6.4	19.9	11.5	<2.0
Feb-09	3.04 J	59.4 J	<1.0	1.54 J	2.92 J	133	<2.5	<0.067	<1.0	6.6	13.9	10	3.66 J
May-09	<1.5	62.2 J	<1.0	1.56 J	2.01 J	146	<2.5	0.312	<1.0	6.6	20.2	13.6	4.4 J
Jul-09	<1.6	73.4 J	<1.0	1.53 J	1.61 J	185	<3.3	<0.066	<1.5	6.6	25	2.85	<3.3
Oct-09	<1.6	62 J	<1.0	1.49 J	1.55 J	168	<3.3	<0.066	<1.5	6.6	18.9	9.04	10.7 J

Historical Water Quality Data for MW050T

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Feb-10	<1.6	60 J	<1.0	1.51 J	3.07 J	127	<3.3	<0.066	<1.5	6.9	12.6	13.4	<3.3
May-10	<1.6	72.7 J	<1.0	1.55 J	4.69 J	167	<3.3	<0.066	<1.5	6.3	22	9.37	4.93 J
Aug-10	<1.6	69.2 J	<1.0	1.64 J	4.16 J	167	<3.3	<0.066	<1.5	6.8	21.2	9.22	<3.3
Nov-10	<1.6	91.5 J	<1.0	1.67 J	<1.0	154	<3.3	<0.066	<1.5	6.5	20.8	15	<3.3
Feb-11	<1.7	95.2 J	<1.0	1.69 J	<1.0	217	<3.3	<0.066	<1.5	6.4	20.3	10	<3.3
May-11	<1.7	75.4 J	<1.0	1.71 J	1.05 J	145	<3.3	<0.066	<1.5	6.6	20.1	9.31	<3.3
Aug-11	<1.7	69.4 J	<1.0	1.58 J	6.09 J	165	<3.3	0.103 J	<1.5	7	24.6	12.5	<3.3
Nov-11	<1.7	69.3 J	<1.0	1.56 J	8.93 J	146	<3.3	<0.066	<1.5	6.9	20.8	12.7	<3.3
Mar-12	<4.0	<7.5	<0.6	<0.11	<2.1	161	<1.9	<0.053	<10	6.76	18	4.6	<4.5
May-12	<4.0	<7.5	<0.6	<0.11	<2.1	173	<1.9	<0.053	<10	6.67	22.6	18	<4.5
Aug-12	<4.0	100	<0.6	<0.11	<2.1	181	<1.9	<0.053	<10	6.67	24	10	<4.5
Nov-12	<4.0	<7.5	<0.6	<0.11	<2.1	177	<1.9	<0.053	<10	6.61	17.9	5.2	<4.5
Feb-13	<4.0	<7.5	<0.6	<0.11	<2.1	178	<1.9	<0.015	<10	6.87	18.6	3.1	<4.5
May-13	<4.0	110	<0.6	<0.11	<2.1	179	<1.9	<0.015	<10	6.3	6.3	10	<4.5
Aug-13	<4.0	<7.5	<0.6	<0.11	<2.1	171	<1.9	<0.015	<10	6.42	27.4	4.8	<4.5
Nov-13	<4.0	<7.5	<0.6	<0.11	20	168	<1.9	<0.015	<10	6.61	19.8	8.5	<4.5
Feb-14	<4.0	<7.5	<0.6	<0.11	<2.1	139	<1.9	<0.015	<10	6.58	19.1	8.8	<4.5
Apr-14	<4.0	<7.5	<0.6	<0.11	<2.1	160	<1.9	<0.015	<10	6.37	22.5	4.6	<4.5
Jul-14	<4.0	<7.5	<0.6	<0.11	<2.1	173	<1.9	<0.015	<10	6.48	24.3	22	<4.5
Oct-14	<4.0	100	<0.6	<0.11	<2.1	190	<1.9	<0.015	<10	6.73	22.6	10	<4.5
Feb-15	<4.0	<7.5	<0.6	<0.11	<2.1	140	<2.1	<0.015	<10	6.8	13.2	6.2	<4.5
Apr-15	<2.2	<1.9	<0.54	<0.11	<0.72	151	<4.7	<0.028	<2.8	6.77	22	3.8	<2.2
Aug-15	<2.2	<1.9	<0.54	<0.11	<0.72	181	<4.7	<0.028	<2.8	6.32	25.8	8	<2.2
Nov-15	<2.2	<1.9	<0.54	<0.033	<0.72	187	<4.7	<0.028	<2.8	6.78	23	8.7	<2.2
Feb-16	<2.2	<1.9	<0.54	<0.033	<0.72	163	<4.7	<0.028	<2.8	6.48	20	7.1	<2.2
May-16	<2.2	<1.9	<0.54	<0.033	<0.72	210	<4.7	<0.028	<2.8	6.57	21.9	6.9	<2.2
Aug-16	<2.2	<1.9	<0.54	<0.033	<0.72	140	<4.7	<0.028	<2.8	6.46	22.8	1.3	<2.2
Oct-16	<2.2	<1.9	<0.54	<0.2	<0.72	130	<4.7	<0.028	<2.8	5.99	20.7	3.1	<2.2
Jan-17	<2.2	<1.9	<0.54	<0.2	<0.72	120	<4.7	<0.028	<2.8	6.47	17.5	7.1	<2.2
Apr-17	<2.5	60	<0.6	<0.2	<1.3	146	<4.7	<0.028	<5	6.88	25.6	11	<2.5
Jul-17	<2.5	63	<0.6	<0.2	<1.3	110	<4.7	<0.091	<5	6.21	24.9	5.9	<2.5

Notes:
Data is presented in units of µg/L unless otherwise noted
ND = Non-detect
J = Indicates value is between the method detection limit and practical quantitation limit and is an estimated concentration
Value following "<" represents the method detection limit

Historical Water Quality Data for MW051T

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
May-94	ND	ND	ND	5	ND	213	ND	ND	ND	7.57	18.8	7.92	ND
Oct-94	ND	ND	ND	ND	ND	252	ND	ND	ND	6.72	18.4	4.26	ND
Apr-95	ND	ND	ND	ND	ND	246	ND	ND	ND	6.77	18.5	2.75	ND
Oct-95	ND	ND	ND	ND	ND	247	ND	ND	ND	6.8	19.7	1.37	ND
Apr-96	ND	58.6	ND	1.92	ND	238	ND	ND	ND	6.91	18.1	7.98	ND
Oct-96	ND	ND	ND	ND	ND	237	ND	ND	ND	7.5	18.6	2.82	ND
Apr-97	ND	ND	ND	ND	ND	241	ND	ND	ND	6.45	19.1	6.78	ND
Oct-97	ND	ND	ND	ND	ND	234	ND	ND	ND	5.6	20.2	5.99	ND
Apr-98	ND	ND	ND	ND	ND	240	ND	ND	ND	6.73	19.5	6.33	ND
Oct-98	ND	ND	ND	1.57	ND	154	ND	ND	ND	7.02	19.8	143	ND
Apr-99	ND	ND	ND	1.9	ND	210	ND	ND	ND	5.9	19	12	ND
Oct-99	ND	110	ND	ND	ND	228	ND	ND	ND	6.08	19.2	3.03	ND
Apr-00	ND	ND	ND	ND	ND	215	ND	ND	ND	6.05	19	ND	ND
Oct-00	ND	ND	ND	ND	ND	235	ND	ND	ND	6.47	18.6	1.49	ND
Apr-01	ND	ND	ND	ND	ND	210	ND	ND	ND	6.27	19.5	7.55	ND
Oct-01	ND	ND	ND	ND	ND	202	ND	ND	ND	6.35	18.3	37.1	ND
Apr-02	ND	ND	ND	7.47	ND	185	ND	ND	ND	6.49	19.4	1.81	ND
Oct-02	ND	ND	ND	ND	ND	242	ND	ND	ND	6.54	20	10.37	ND
Apr-03	ND	ND	ND	ND	ND	219	ND	ND	ND	6.53	17.4	8.09	ND
Oct-03	ND	ND	ND	ND	ND	209	ND	ND	ND	6.6	21.4	20	ND
Jan-04	ND	ND	ND	ND	ND	198	ND	ND	ND	6.8	17.8	1.93	ND
Apr-04	ND	ND	ND	ND	ND	207	ND	ND	ND	6.2	18.6	5.85	ND
Jul-04	ND	ND	ND	ND	ND	237	ND	ND	ND	6.5	19.2	1.97	ND
Oct-04	ND	ND	ND	ND	ND	208	ND	ND	ND	6.4	19.5	20	ND
Jan-05	ND	ND	ND	ND	ND	213	ND	ND	ND	6.6	19.1	2.7	ND
Apr-05	ND	ND	ND	ND	ND	220	ND	ND	ND	6.5	17.8	3.62	ND
Jul-05	ND	ND	ND	ND	ND	198	ND	ND	ND	6.4	21.1	11.5	ND
Oct-05	ND	ND	ND	ND	ND	210	ND	ND	ND	6.5	18.7	1.29	ND
Jan-06	ND	ND	ND	ND	ND	187	ND	ND	ND	6.6	18.8	9.52	ND
May-06	ND	ND	ND	ND	ND	199	ND	ND	ND	6.8	19.1	5.16	ND
Aug-06	1.89 J	90 J	<1.0	1.64 J	<1.0	200	<2.5	<0.06	<1.0	6.6	22.8	5.08	5.01 J
Nov-06	1.65 J	85 J	<1.0	1.68 J	<1.0	72.5	<2.5	<0.06	<1.0	6.9	20.1	7.43	6.4 J
Feb-07	<1.5	89 J	<1.0	1.68 J	<1.0	144	<2.5	<0.06	<1.0	6.7	17.6	4.42	7.16 J
Apr-07	<1.5	85.5 J	<1.0	1.68 J	1.33	184	<2.5	<0.06	<1.0	6.2	23.1	3.36	<2.0
Aug-07	<1.5	90.4 J	<1.0	1.62 J	1.36	174	<2.5	<0.03	<1.0	7	24.2	4.04	<2.0
Nov-07	4.36 J	92.2 J	<1.0	1.76 J	<1.0	156	<2.5	<0.03	<1.0	6.7	19.5	11.7	3.39 J
Feb-08	<1.5	69.4 J	<1.0	1.64 J	<2.0	159	<2.5	<0.03	<1.0	6.7	18.6	4.29	<2.0
Apr-08	<1.5	59.7 J	<1.0	1.55 J	<2.0	168	<2.5	<0.03	<1.0	6.4	18.9	13.3	3.25 J
Aug-08	<1.5	98.8 J	<1.0	1.56 J	3.3	202	27.6	<0.03	1.37 J	6.8	21.8	13.2	7.79 J
Nov-08	3.76 J	62 J	<1.0	1.84 J	<2.0	185	<2.5	<0.067	<1.0	6.2	19.9	18.9	6.02 J
Feb-09	2.79 J	95.8 J	<1.0	1.57 J	3.54	147	<2.5	<0.067	4.10 J	6.6	17.7	9.72	5.21 J
May-09	<1.5	75.4 J	<1.0	1.59 J	<2.0	156	<2.5	0.426	1.94 J	6.5	20.5	17.9	5 J
Jul-09	<1.6	82.9 J	<1.0	1.54 J	1.06	172	<3.3	<0.066	<1.5	6.6	22.6	2.71	<3.3
Oct-09	<1.6	67.1 J	<1.0	1.64 J	1.09	170	<3.3	<0.066	<1.5	6.5	18.6	6.04	6.46 J

Historical Water Quality Data for MW051T

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Feb-10	<1.6	84.3 J	<1.0	1.52 J	<1.0	144	<3.3	<0.066	<1.5	6.7	16.5	4.72	<3.3
May-10	<1.6	79.9 J	<1.0	1.56 J	<1.0	179	<3.3	<0.066	<1.5	6.3	20.9	10.4	6.07 J
Aug-10	<1.6	69.8 J	<1.0	1.68 J	4.17	173	3.74 J	<0.066	<1.5	6.9	22.4	12.7	3.82 J
Nov-10	<1.6	81.2 J	<1.0	1.66 J	<1.0	158	<3.3	<0.066	<1.5	6.4	19.3	12.8	4.09 J
Feb-11	<1.7	89.9 J	<1.0	1.68 J	<1.0	347	<3.3	<0.066	<1.5	6.5	22.5	5	<3.3
May-11	2.28 J	85.9 J	<1.0	1.69 J	<1.0	163	<3.3	<0.066	<1.5	6.5	20.8	8.93	<3.3
Aug-11	<1.7	74.3 J	<1.0	1.62 J	1.46	163	<3.3	0.094 J	<1.5	6.8	22.3	15.5	<3.3
Nov-11	<1.7	92.7 J	<1.0	1.59 J	<1.0	149	<3.3	<0.066	<1.5	6.6	20.3	12.7	<3.3
Mar-12	<4.0	<7.5	<0.6	<0.11	<2.1	149	<1.9	<0.053	<10	6.72	18	4.9	<4.5
May-12	<4.0	<7.5	<0.6	<0.11	<2.1	176	<1.9	<0.053	<10	6.55	22.8	13	<4.5
Aug-12	<4.0	<7.5	<0.6	<0.11	<2.1	203	<1.9	<0.053	<10	6.48	26.8	ND	<4.5
Nov-12	<4.0	<7.5	<0.6	<0.11	<2.1	180	<1.9	<0.053	<10	6.47	18	2.9	<4.5
Feb-13	<4.0	<7.5	<0.6	<0.11	<2.1	175	<1.9	<0.015	<10	7.12	18.5	15	<4.5
May-13	<4.0	<7.5	<0.6	<0.11	<2.1	184	<1.9	<0.015	<10	6.78	21.6	ND	<4.5
Aug-13	<4.0	<7.5	<0.6	<0.11	<2.1	183	<1.9	<0.015	<10	6.27	20.9	9.9	<4.5
Nov-13	<4.0	<7.5	<0.6	<0.11	<2.1	159	<1.9	<0.015	<10	6.7	20.1	37	<4.5
Feb-14	<4.0	<7.5	<0.6	<0.11	<2.1	152	<1.9	<0.015	<10	6.62	20.4	4.8	<4.5
Apr-14	<4.0	<7.5	<0.6	<0.11	<2.1	171	<1.9	<0.015	<10	6.41	23	9.1	<4.5
Jul-14	<4.0	<7.5	<0.6	<0.11	<2.1	202	<1.9	<0.015	<10	6.48	23.2	10	<4.5
Oct-14	<4.0	<7.5	<0.6	<0.11	<2.1	202	<1.9	<0.015	<10	6	24.1	9.2	<4.5
Feb-15	<4.0	<7.5	<0.6	<0.11	<2.1	168	<2.1	<0.015	<10	6.77	17.1	5.5	<4.5
May-15	<2.2	<1.9	<0.54	<0.11	<0.72	168	<4.7	<0.028	<2.8	6.45	20.7	2.9	<2.2
Aug-15	<2.2	<1.9	<0.54	<0.11	<0.72	197	<4.7	<0.028	<2.8	6.4	27	8.4	<2.2
Nov-15	<2.2	<1.9	<0.54	<0.033	<0.72	209	<4.7	<0.028	<2.8	6.43	21.5	1.3	<2.2
Feb-16	<2.2	<1.9	<0.54	<0.033	<0.72	165	<4.7	<0.028	<2.8	6.4	18.1	22	<2.2
May-16	<2.2	<1.9	<0.54	<0.033	<0.72	210	<4.7	<0.028	<2.8	6.51	20.9	1.8	<2.2
Aug-16	<2.2	<1.9	<0.54	<0.033	<0.72	140	<4.7	0.36	<2.8	6.54	24.2	1.1	<2.2
Oct-16	<2.2	<1.9	<0.54	<0.2	<0.72	130	<4.7	<0.028	<2.8	6.09	21.1	3.5	<2.2
Jan-17	<2.2	<1.9	<0.54	<0.2	<0.72	120	<4.7	<0.028	<2.8	6.21	18.1	14	<2.2
Apr-17	<2.5	70	<0.6	<0.2	<1.3	147	<4.7	<0.028	<5	6.78	22.4	8.6	<2.5
Jul-17	<2.5	62	<0.6	<0.2	<1.3	120	<4.7	<0.091	<5	6.3	24.3	5.7	<2.5

Notes:
Data is presented in units of µg/L unless otherwise noted
ND = Non-detect
J = Indicates value is between the method detection limit and practical quantitation limit and is an estimated concentration
Value following "<" represents the method detection limit

Historical Water Quality Data for MW052T

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Apr-94	ND	ND	ND	5	ND	309	ND	ND	ND	6.7	19.7	10.36	ND
Oct-94	ND	ND	ND	2.69	ND	316	26.1	ND	ND	6.63	18.8	ND	ND
Apr-95	ND	ND	ND	3.31	ND	302	ND	ND	ND	6.63	18.2	19.52	ND
Oct-95	ND	ND	ND	3.09	ND	199	ND	ND	ND	6.59	17.3	25.4	ND
Apr-96	ND	ND	ND	3.21	ND	314	ND	ND	ND	6.32	17.9	2.75	ND
Oct-96	ND	ND	ND	3.06	ND	321	ND	ND	ND	6.28	19.3	6.64	ND
Apr-97	ND	ND	ND	3.08	ND	301	ND	ND	ND	6.34	18.2	2.23	ND
Oct-97	ND	ND	ND	3.44	ND	291	ND	ND	ND	6.29	19.5	2.21	ND
Apr-98	ND	ND	ND	3.02	ND	345	ND	ND	ND	6.43	19	2.96	ND
Oct-98	ND	ND	ND	2.88	ND	326	ND	ND	ND	6.09	19.3	4.24	ND
Apr-99	ND	ND	ND	3.3	ND	330	ND	ND	ND	6.4	19	9.9	ND
Oct-99	ND	ND	ND	3.26	ND	404	ND	ND	ND	6.52	19.2	5.41	ND
Apr-00	ND	ND	ND	2.63	ND	324	ND	ND	ND	5.96	18.6	6.75	ND
Oct-00	ND	ND	ND	2.84	ND	351	ND	ND	ND	6.17	18.5	8.07	ND
Apr-01	ND	ND	ND	3.03	ND	322	ND	ND	ND	6.09	19.4	5.05	ND
Oct-01	ND	ND	ND	2.61	ND	324	ND	ND	ND	6.32	19.4	5.96	ND
Apr-02	ND	ND	ND	3.1	ND	268	ND	ND	ND	6.33	18.9	5.27	ND
Oct-02	ND	ND	ND	3.05	ND	319	ND	ND	ND	6.3	18.5	3.98	ND
Apr-03	ND	ND	ND	2.83	ND	304	ND	ND	ND	6.67	17.8	3.38	ND
Oct-03	ND	ND	ND	2.76	ND	315	ND	ND	ND	6.51	17.6	4.37	ND
Jan-04	ND	ND	ND	2.97	ND	308	ND	ND	ND	6.5	17.5	3.2	ND
Apr-04	ND	ND	ND	2.74	ND	406	ND	ND	ND	5.8	17.2	6.38	ND
Jul-04	ND	ND	ND	3.04	ND	349	ND	ND	ND	6.4	20	4.88	ND
Oct-04	ND	ND	ND	2.93	ND	323	ND	ND	ND	6.4	19.2	17.3	ND
Jan-05	ND	ND	ND	2.73	ND	319	ND	ND	ND	6.5	18.6	6.66	ND
Apr-05	ND	ND	ND	3	ND	312	ND	ND	ND	6.6	18.9	11.66	ND
Jul-05	ND	ND	ND	2.97	ND	311	ND	ND	ND	6.3	22.6	9.6	ND
Oct-05	ND	ND	ND	2.95	ND	313	ND	ND	ND	6.5	20	7.6	ND
Jan-06	ND	ND	ND	2.85	ND	283	ND	ND	ND	6.8	19.8	6.74	ND
May-06	ND	ND	ND	2.79	ND	260	ND	ND	ND	6.5	18.2	3.62	ND
Aug-06	<1.5	28.1 J	<1.0	2.77	1.85 J	305	<2.5	<0.06	<1.0	6.3	21.2	9	8.68 J
Nov-06	<1.5	28.7 J	<1.0	2.85	<1.0	223	<2.5	<0.06	<1.0	6.5	21.5	6.44	4.42 J
Feb-07	<1.5	29.3 J	<1.0	3.03	<1.0	262	<2.5	<0.06	<1.0	6.6	17.8	1.63	8.74 J
May-07	<1.5	37.3 J	<1.0	2.91	<1.0	272	<2.5	<0.06	<1.0	6.3	22	5.71	<2.0
Aug-07	<1.5	29.7 J	<1.0	3.13	<1.0	260	<2.5	<0.03	<1.0	7.2	23.1	11.6	5.35 J
Nov-07	2.71 J	28.2 J	<1.0	2.82	<1.0	237	<2.5	<0.03	<1.0	6.6	20.4	8.5	4.43 J
Feb-08	<1.5	28.4 J	<1.0	2.86	<2.0	261	<2.5	<0.03	<1.0	6.5	18.8	9.45	7.38 J
Apr-08	<1.5	27.8 J	<1.0	2.89	<2.0	256	3.47 J	<0.03	<1.0	6.8	18.9	11.4	4.29 J
Aug-08	<1.5	28.2 J	<1.0	2.94	<2.0	320	<2.5	<0.03	<1.0	6.8	23	13.4	3.77 J
Nov-08	<1.5	27.4 J	<1.0	3.13	<2.0	259	<2.5	<0.067	<1.0	7	19	10.63	9.28 J
Feb-09	<1.5	30 J	<1.0	2.9	<2.0	260	<2.5	<0.067	<1.0	6.8	17.9	11.6	2.05 J
May-09	<1.5	30.8 J	<1.0	2.68	<2.0	287	<2.5	<0.067	<1.0	6.5	19.9	10.9	7.28 J
Jul-09	<1.6	36.5 J	<1.0	2.91	<1.0	291	<3.3	<0.066	<1.5	6.6	22	5.39	11.6 J
Dec-09	<1.6	32.5	<1.0	2.8	<1.0	213	<3.3	<0.066	0.889 J	6.3	15.9	12.04	<3.3

Historical Water Quality Data for MW052T

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Feb-10	<1.6	32.6 J	<1.0	2.86	2.3 J	234	<3.3	<0.066	<1.5	6.7	16	11.4	<3.3
May-10	<1.6	32.1 J	<1.0	2.82	<1.0	268	4.75 J	<0.066	<1.5	6.3	19.9	11.9	4.42 J
Aug-10	<1.6	32.9 J	<1.0	2.96	<1.0	293	<3.3	<0.066	<1.5	6.3	21.4	10.5	6.83 J
Nov-10	<1.6	34.7 J	<1.0	2.84	1.87 J	262	<3.3	<0.066	<1.5	6.6	20	9.87	<3.3
Feb-11	<1.7	32.7 J	<1.0	2.88	1.39 J	245	<3.3	<0.066	<1.5	6.4	17.1	8.71	9.75 J
May-11	<1.7	34.4 J	<1.0	3.15	<1.0	305	<3.3	<0.066	<1.5	6.6	20.4	10.9	4.73 J
Aug-11	<1.7	33.1 J	<1.0	2.79	1.96 J	301	5.51 J	<0.066	<1.5	6.4	21.5	13.9	<3.3
Nov-11	<1.7	30.7 J	<1.0	2.95	<1.0	247	<3.3	<0.066	<1.5	6.9	18.8	13.1	<3.3
Mar-12	<4.0	<7.5	<0.6	3.3	<2.1	259	<1.9	<0.053	<10	6.72	19.6	6.4	<4.5
May-12	<4.0	<7.5	<0.6	3.5	<2.1	214	<1.9	<0.053	<10	6.51	23.1	9.8	<4.5
Aug-12	<4.0	<7.5	<0.6	3.5	<2.1	325	<1.9	<0.053	<10	6.45	24.8	13	<4.5
Nov-12	<4.0	<7.5	<0.6	3.3	<2.1	312	<1.9	<0.053	<10	7.19	20.3	7.8	<4.5
Feb-13	<4.0	<7.5	<0.6	3.5	<2.1	271	<1.9	<0.015	<10	7.29	18.3	10	<4.5
May-13	<4.0	<7.5	<0.6	3.6	<2.1	294	<1.9	<0.015	<10	6.86	20	6.3	37
Aug-13	<4.0	<7.5	<0.6	3.3	<2.1	291	<1.9	<0.015	<10	6.37	21.5	6.1	23
Oct-13	<4.0	<7.5	<0.6	3.7	<2.1	295	<1.9	<0.015	<10	6.39	22.4	9.7	<4.5
Feb-14	<4.0	<7.5	<0.6	3.7	<2.1	244	<1.9	<0.015	<10	6.3	15.5	6.8	<4.5
Apr-14	<4.0	<7.5	<0.6	3.6	<2.1	281	<1.9	<0.015	<10	6.5	21.6	9.8	<4.5
Jul-14	<4.0	<7.5	<0.6	3.5	<2.1	316	<1.9	<0.015	<10	6.21	24.9	9.1	<4.5
Oct-14	<4.0	<7.5	<0.6	3.1	<2.1	284	<1.9	<0.015	<10	6.81	21.4	8.8	<4.5
Feb-15	<4.0	<7.5	<0.6	3.2	<2.1	272	<2.1	<0.015	<10	6.61	16.5	7.3	<4.5
May-15	<2.2	<1.9	<0.54	3.4	<0.72	245	<4.7	<0.028	<2.8	6.55	19.1	2.5	<2.2
Aug-15	<2.2	<1.9	<0.54	3.3	<0.72	312	<4.7	<0.028	<2.8	6.44	22.4	5.2	<2.2
Oct-15	<2.2	<1.9	<0.54	3.9	<0.72	273	<4.7	<0.028	<2.8	6.59	20.6	5.4	<2.2
Feb-16	<2.2	<1.9	<0.54	3.6	<0.72	293	<4.7	<0.028	<2.8	6.51	15.3	4.1	<2.2
Apr-16	<2.2	<1.9	<0.54	3.4	<0.72	360	<4.7	<0.028	<2.8	6.36	22	6.9	<2.2
Jul-16	<2.2	<1.9	<0.54	3.6	<0.72	230	<4.7	<0.028	<2.8	6.57	24.9	8.8	<2.2
Oct-16	<2.2	<1.9	<0.54	3.5	<0.72	170	<4.7	<0.028	<2.8	5.87	23.5	7.4	<2.2
Jan-17	<2.2	<1.9	<0.54	3.5	<0.72	150	<4.7	<0.028	<2.8	6.23	21	7.9	<2.2
Apr-17	<2.5	31	<0.6	3.4	<1.3	242	<4.7	<0.028	<5	6.64	19.2	5.6	<2.5
Jul-17	<2.5	28	<0.6	3.7	<1.3	160	<4.7	<0.091	<5	6.13	22.8	9.9	<2.5

Notes:
Data is presented in units of µg/L unless otherwise noted
ND = Non-detect
J = Indicates value is between the method detection limit and practical quantitation limit and is an estimated concentration
Value following "<" represents the method detection limit

Historical Water Quality Data for MW054T

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Apr-94	ND	ND	ND	5	ND	269	ND	ND	ND	6.98	17.2	12.93	ND
Jul-94	ND	ND	ND	3.95	ND	251	ND	ND	ND	6.52	23.3	10.1	ND
Jan-95	ND	ND	ND	3.96	ND	276	ND	ND	ND	6.4	19.3	28.2	ND
Jul-95	ND	ND	ND	3.56	ND	260	ND	ND	ND	6.22	22.2	6.63	ND
Jan-96	ND	ND	ND	3.7	ND	205	ND	ND	ND	6.31	17.6	14.2	ND
Jul-96	ND	ND	ND	4.4	ND	265	ND	ND	ND	6.14	21	ND	ND
Jan-97	ND	ND	ND	4.62	ND	244	ND	ND	ND	6.18	19	3.55	ND
Jul-97	ND	ND	ND	5.01	ND	250	ND	ND	ND	5.87	19.3	1.65	ND
Jan-98	ND	ND	ND	4.35	ND	277	ND	ND	ND	5.54	18.2	1.27	ND
Jul-98	ND	ND	ND	3.66	ND	288	ND	ND	ND	6.45	20.3	2.64	ND
Jan-99	ND	ND	ND	3.65	ND	286	ND	ND	ND	5.93	19	2.9	ND
Jul-99	ND	ND	ND	3.6	ND	319	ND	ND	ND	6.1	19.3	3.7	ND
Jan-00	ND	ND	ND	3.63	ND	217	ND	ND	ND	6.14	18.3	11.35	ND
Jul-00	ND	ND	ND	3.53	ND	282	ND	ND	ND	6.44	21.3	8.87	ND
Jan-01	ND	ND	ND	3.49	ND	283	ND	ND	ND	6.02	18.1	4.76	ND
Jul-01	ND	ND	ND	3.62	ND	254	ND	ND	ND	6.19	20.2	3.82	ND
Jan-02	ND	ND	ND	3.57	ND	250	ND	ND	ND	6.16	18.2	7.02	ND
Jul-02	ND	ND	ND	3.59	ND	269	ND	ND	ND	6.01	20.6	10.55	ND
Jan-03	ND	ND	ND	3.49	ND	277	ND	ND	ND	5.86	16.7	5.9	ND
Jul-03	ND	ND	ND	3.51	ND	267	ND	ND	ND	6.19	22.9	14.85	ND
Jan-04	ND	ND	ND	3.61	ND	233	ND	ND	ND	6.5	17.2	9	ND
Apr-04	ND	ND	ND	3.43	ND	270	ND	ND	ND	6	17.2	25.5	ND
Jul-04	ND	ND	ND	3.62	ND	293	ND	ND	ND	6.3	19.7	6.81	ND
Oct-04	ND	ND	ND	3.54	ND	261	ND	ND	ND	6.1	20.8	1.17	ND
Jan-05	ND	ND	ND	3.55	ND	243	ND	ND	ND	6.1	18.5	5.71	ND
Apr-05	ND	ND	ND	3.25	ND	246	ND	ND	ND	6.3	19.7	14	ND
Jul-05	ND	ND	ND	3.4	ND	228	ND	ND	ND	6	21.1	21.1	ND
Oct-05	ND	ND	ND	3.43	ND	252	ND	ND	ND	6.3	20.3	1.83	ND
Jan-06	ND	ND	ND	3.43	ND	235	ND	ND	ND	6.6	19.9	10.9	ND
May-06	ND	ND	ND	3.35	ND	215	ND	ND	ND	6.2	18.4	7.63	ND
Aug-06	<1.5	3.52 J	<1.0	3.36	<1.0	236	<2.5	<0.06	8.24 J	6.2	22.5	11	11.2 J
Nov-06	<1.5	11.2 J	<1.0	3.37	<1.0	197	<2.5	<0.06	7.19 J	6.3	21.9	2.19	6.04 J
Feb-07	<1.5	14 J	<1.0	3.34	<1.0	223	<2.5	<0.06	6.3 J	6.2	18.9	1.6	11.1 J
Apr-07	<1.5	14.5 J	<1.0	3.26	<1.0	246	<2.5	<0.06	6.18 J	6.3	20.5	1.68	2.5 J
Aug-07	<1.5	15.5 J	<1.0	3.27	<1.0	236	<2.5	<0.03	6.32 J	6.1	21.7	1.61	<2.0
Nov-07	<1.5	8.2 J	<1.0	3.38	<1.0	228	<2.5	<0.03	6.44 J	6.4	21.3	6.57	29.7
Feb-08	<1.5	15.5 J	<1.0	3.31	<2.0	213	<2.5	<0.03	5.79 J	6.4	18.9	3.09	9.47 J
Apr-08	<1.5	7.82 J	<1.0	3.23	<2.0	207	2.56 J	<0.03	6.71 J	6.4	19.3	14.6	6.18 J
Aug-08	<1.5	15.8 J	<1.0	3.36	<2.0	253	<2.5	<0.03	6.1 J	6.3	21.2	4.66	5.34 J
Nov-08	<1.5	15.4 J	<1.0	3.38	<2.0	231	<2.5	<0.067	5.09 J	6.7	19.7	4.61	10.8 J
Feb-09	<1.5	5.64 J	<1.0	3.15	<2.0	199	3.56 J	<0.067	8.93 J	6.6	17.3	15.8	11 J
May-09	<1.5	7.93 J	<1.0	3.21	<2.0	216	<2.5	<0.067	7.09 J	6.3	19.6	15.9	7.69 J
Jul-09	<1.6	6.93 J	<1.0	3.12	<1.0	229	<3.3	<0.066	6.03 J	6.1	21.8	2.98	5.46 J
Oct-09	<1.6	7.47 J	<1.0	3.08	1.11 J	236	<3.3	<0.066	7.5 J	6.3	20.9	5.92	10.1 J

Historical Water Quality Data for MW054T

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Feb-10	<1.6	8.34 J	<1.0	3.05	<1.0	201	<3.3	<0.066	8.33 J	6.2	17	1.06	3.6 J
May-10	<1.6	6.79 J	<1.0	3.04	<1.0	218	<3.3	<0.066	9.26 J	5.9	19.8	9.13	6.23 J
Aug-10	<1.6	6.36 J	<1.0	3.36	<1.0	227	<3.3	<0.066	8.74 J	6	21.5	9.59	9.74 J
Nov-10	<1.6	4.97 J	<1.0	3.25	<1.0	209	<3.3	<0.066	9.06 J	6.2	18.8	11.1	3.32 J
Feb-11	<1.7	16.3 J	<1.0	3.27	<1.0	217	<3.3	<0.066	5.77 J	6.2	17.5	7.55	13.5 J
May-11	<1.7	7.3 J	<1.0	3.35	<1.0	251	<3.3	<0.066	8.08 J	6.6	21.1	11.6	6.53 J
Aug-11	<1.7	5.71 J	<1.0	3.21	<1.0	240	5.53 J	<0.066	8.12 J	6.3	21.6	11.4	5.63 J
Nov-11	<1.7	8.41 J	<1.0	3.26	<1.0	203	<3.3	<0.066	8.57 J	6.4	19.2	9.12	<3.3
Mar-12	<4.0	<7.5	<0.6	3.4	<2.1	228	<1.9	<0.053	<10	6.5	17.1	1.9	<4.5
May-12	<4.0	<7.5	<0.6	3.4	<2.1	279	<1.9	<0.053	<10	6.23	21.7	3.1	<4.5
Aug-12	<4.0	<7.5	<0.6	3.5	<2.1	261	<1.9	<0.053	<10	6.31	25.4	25	<4.5
Nov-12	<4.0	<7.5	<0.6	3.2	<2.1	314	<1.9	<0.053	<10	6.19	20.1	2.3	<4.5
Feb-13	<4.0	<7.5	<0.6	3.3	<2.1	246	<1.9	<0.015	<10	6.18	17.7	3.6	<4.5
May-13	<4.0	<7.5	<0.6	3.4	<2.1	262	<1.9	<0.015	<10	6.52	18.8	ND	<4.5
Aug-13	<4.0	<7.5	<0.6	3.3	<2.1	256	<1.9	<0.015	<10	6.02	22	8.3	<4.5
Oct-13	<4.0	<7.5	<0.6	3.7	<2.1	261	<1.9	<0.015	<10	6.15	22.2	9.3	<4.5
Feb-14	<4.0	<7.5	<0.6	3.5	<2.1	231	<1.9	<0.015	<10	6.11	16.4	9.8	<4.5
Apr-14	<4.0	<7.5	<0.6	3.5	<2.1	287	<1.9	<0.015	<10	6.11	21.8	8.4	<4.5
Jul-14	<4.0	<7.5	<0.6	3.6	<2.1	251	<1.9	<0.015	<10	6.19	25.6	3.1	<4.5
Oct-14	<4.0	<7.5	<0.6	3.6	<2.1	272	<1.9	<0.015	<10	6.25	19.4	3.6	<4.5
Feb-15	<4.0	<7.5	<0.6	3.5	<2.1	260	<2.1	<0.015	<10	6.2	17.4	7.5	<4.5
May-15	<2.2	<1.9	<0.54	3.6	<0.72	235	<4.7	<0.028	<2.8	6.18	18.6	ND	<2.2
Aug-15	<2.2	<1.9	<0.54	3.5	<0.72	384	<4.7	<0.028	<2.8	6.22	25.2	8.1	<2.2
Oct-15	<2.2	<1.9	<0.54	3.6	<0.72	302	<4.7	<0.028	<2.8	6.3	19.4	7.7	<2.2
Jan-16	<2.2	<1.9	<0.54	3.6	<0.72	297	<4.7	<0.028	<2.8	6.13	16.1	3.6	<2.2
May-16	<2.2	<1.9	<0.54	3.6	<0.72	340	<4.7	<0.028	<2.8	6.35	22	ND	<2.2
Aug-16	<2.2	<1.9	<0.54	3.5	<0.72	190	<4.7	<0.028	<2.8	6.04	22.6	5.8	<2.2
Oct-16	<2.2	<1.9	<0.54	3.5	<0.72	180	<4.7	<0.028	<2.8	6.02	26.4	3.4	<2.2
Jan-17	<2.2	<1.9	<0.54	<0.2	<0.72	160	<4.7	<0.028	<2.8	6.15	19.2	2.3	<2.2
Apr-17	<2.5	<3.1	<0.6	3.6	<1.3	273	<4.7	<0.028	<5	6.59	20.2	1.6	<2.5
Jul-17	<2.5	<3.1	<0.6	3.7	<1.3	160	<4.7	<0.091	<5	5.27	21.9	2.4	<2.5

Notes:
Data is presented in units of µg/L unless otherwise noted
ND = Non-detect
J = Indicates value is between the method detection limit and practical quantitation limit and is an estimated concentration
Value following "<" represents the method detection limit

Historical Water Quality Data for MW061T

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Jul-94	ND	ND	ND	11.8	ND	587	ND	ND	ND	6.77	23.3	25.4	ND
Jan-95	ND	ND	ND	14.1	ND	590	ND	ND	ND	6.6	17.3	10.7	ND
Jul-95	ND	ND	ND	14.6	ND	638	ND	ND	ND	6.44	23.4	16.8	ND
Jan-96	ND	ND	ND	16.4	ND	620	ND	ND	ND	6.33	17.8	25.3	ND
Jul-96	ND	ND	ND	15.7	ND	594	ND	ND	ND	6.5	19.4	3.35	ND
Jan-97	ND	ND	ND	17.6	ND	675	ND	ND	ND	6.4	17.7	6.5	ND
Jul-97	ND	ND	ND	16.6	ND	599	ND	ND	ND	5.93	19.5	5.72	ND
Jan-99	ND	ND	ND	18.6	ND	612	ND	ND	ND	6.04	18.6	6.32	ND
Jul-99	ND	ND	ND	18.7	ND	651	ND	ND	ND	6.08	19.4	40	ND
Jan-00	ND	ND	ND	18.3	ND	530	ND	ND	ND	5.94	18.3	12.88	ND
Jul-00	ND	ND	ND	19.2	ND	573	ND	ND	ND	5.89	21.1	39.3	ND
Jan-01	ND	ND	ND	20.2	ND	597	ND	ND	ND	5.92	17.7	3.44	ND
Jul-01	ND	ND	ND	20.5	ND	694	ND	ND	ND	6.17	20.1	9.71	ND
Oct-01	ND	26.7	ND	18.7	ND	647	ND	ND	7.01	6.25	20	5.55	ND
Jan-02	ND	ND	ND	18.3	ND	607	ND	ND	ND	6.29	18.1	2.69	ND
Jul-02	ND	ND	ND	19.2	ND	525	ND	ND	ND	5.98	20	4.9	ND
Nov-02	ND	22.8	ND	-	ND	563	ND	ND	5.73	6.24	18.3	2.84	ND
Jan-03	ND	ND	ND	19.3	ND	560	ND	ND	ND	6.03	17.1	7.55	ND
Jul-03	ND	ND	ND	19.3	ND	616	ND	ND	ND	6.1	21.6	8.2	ND
Nov-03	ND	26	ND	-	ND	593	ND	ND	6.92	6.29	20	1.58	ND
Jan-04	ND	ND	ND	19	ND	561	ND	ND	ND	6.8	17.7	12.5	ND
Apr-04	ND	ND	ND	18.6	ND	567	ND	ND	ND	6.2	18.3	5.09	ND
Jul-04	ND	ND	ND	19.9	ND	605	ND	ND	ND	6.6	20.6	9.08	ND
Oct-04	ND	ND	ND	17.6	ND	570	ND	ND	ND	6.2	19.4	5.62	ND
Jan-05	ND	ND	ND	18.9	ND	585	ND	ND	ND	6.3	19.6	6.25	ND
Apr-05	ND	ND	ND	18	ND	525	ND	ND	ND	6.1	19.2	5.16	ND
Jul-05	ND	ND	ND	18	ND	556	ND	ND	ND	6.1	22.5	5.2	ND
Oct-05	ND	ND	ND	17.8	ND	530	ND	ND	ND	6.2	19.5	2.35	ND
Jan-06	ND	ND	ND	17.6	ND	468	15.3	ND	ND	6	18.1	12.2	ND
May-06	ND	ND	ND	18.9	ND	515	ND	ND	ND	6.2	19.8	13.79	ND
Aug-06	1.77 J	22.1 J	<1.0	18.9	2 J	529	<2.5	<0.06	4.65 J	6.5	20.5	4.27	9.39 J
Nov-06	<1.5	23.9 J	<1.0	17.9	<1.0	409	<2.5	<0.06	5.71 J	6.3	19.1	15.1	9.57 J
Feb-07	<1.5	24.4 J	<1.0	19	<1.0	475	<2.5	<0.06	6.93 J	6.1	20.6	7.21	12.7 J
May-07	<1.5	24.6 J	<1.0	17	<1.0	495	<2.5	<0.06	6.44 J	6.1	20.4	4.52	2.28 J
Aug-07	<1.5	26 J	<1.0	16.9	<1.0	479	<2.5	<0.03	6.58 J	6.4	24	3.26	<2.0
Nov-07	2.79 J	24.7 J	<1.0	17.7	2.97 J	453	<2.5	<0.03	6.9 J	6.3	19.2	9.21	6.12 J
Feb-08	<1.5	19.2 J	1.05 J	17.2	<2.0	399	<2.5	<0.03	4.92 J	6.3	18	8.09	3.78 J
Apr-08	<1.5	19.7 J	<1.0	17.8	<2.0	488	<2.5	<0.03	3.66 J	6.7	19.8	10.3	5.84 J
Aug-08	<1.5	23.1 J	<1.0	18	<2.0	530	<2.5	<0.03	7.09 J	6.7	22.5	19	5.29 J
Nov-08	2.62 J	25 J	<1.0	16.8	<2.0	517	<2.5	<0.067	5.97 J	7	20.8	9.24	6.28J
Feb-09	<1.5	23.5 J	<1.0	18.3	<2.0	416	<2.5	<0.067	7.19 J	6.3	16.2	17.1	12.3 J
May-09	<1.5	21.2 J	<1.0	18.6	<2.0	473	<2.5	<0.067	7.81 J	6.2	18.5	6.8	8.99 J
Jul-09	<1.6	23.3 J	<1.0	17	<1.0	502	<3.3	<0.066	5.68 J	6.2	22.1	3.07	13.4 J
Oct-09	<1.6	20.9 J	<1.0	17.7	<1.0	518	<3.3	<0.066	<1.5	6.3	20.9	8.96	12.3 J

Historical Water Quality Data for MW061T

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Feb-10	<1.6	20.7 J	<1.0	18.1	1.38 J	403	<3.3	<0.066	6.07 J	6.1	15	14.3	<3.3
May-10	1.7 J	19.4 J	<1.0	18.2	<1.0	498	<3.3	<0.066	4.49 J	6.1	19.8	8.93	6.83 J
Aug-10	<1.6	21.1 J	<1.0	18.8	<1.0	503	<3.3	<0.066	3.86 J	6.3	22.7	12.4	9.36 J
Nov-10	<1.6	18 J	<1.0	18.3	1.05 J	502	<3.3	<0.066	5.3 J	6.5	20.8	16.6	3.38 J
Feb-11	<1.7	18.5 J	1.11 J	18.7	<1.0	422	<3.3	<0.066	1.52 J	6.1	16.4	10	12.3 J
May-11	<1.7	19.3 J	<1.0	19.5	<1.0	491	<3.3	<0.066	5.34 J	6.2	20.1	16.4	6.73 J
Aug-11	<1.7	19.2 J	<1.0	17.9	<1.0	528	<3.3	<0.066	4.09 J	6.4	21.4	11.4	3.84 J
Nov-11	<1.7	20.4 J	<1.0	18.4	<1.0	469	<3.3	<0.066	4.73 J	6.1	19.1	16.2	<3.3
Mar-12	<4.0	<7.5	<0.6	18	<2.1	478	<1.9	<0.053	<10	6.57	18.9	11	<4.5
May-12	<4.0	<7.5	<0.6	18	<2.1	540	<1.9	<0.053	<10	6.26	22.5	9.2	<4.5
Aug-12	<4.0	<7.5	<0.6	17	<2.1	564	<1.9	<0.053	<10	6	24.2	44	<4.5
Nov-12	<4.0	<7.5	<0.6	15	<2.1	511	<1.9	<0.053	<10	6.43	20.5	24	<4.5
Feb-13	<4.0	<7.5	<0.6	16	<2.1	516	<1.9	<0.015	<10	6.47	18.1	1.9	<4.5
May-13	<4.0	<7.5	<0.6	17	<2.1	537	<1.9	<0.015	<10	6.34	22.2	4	<4.5
Aug-13	<4.0	<7.5	<0.6	16	<2.1	518	<1.9	<0.015	<10	6.08	24.6	9.6	<4.5
Oct-13	<4.0	<7.5	<0.6	19	<2.1	501	<1.9	<0.015	<10	6.02	21.4	8.2	<4.5
Feb-14	<4.0	<7.5	<0.6	19	<2.1	469	<1.9	<0.015	<10	6.13	16.7	13	<4.5
Apr-14	<4.0	<7.5	<0.6	17	<2.1	512	<1.9	<0.015	<10	5.99	21.4	4.2	<4.5
Jul-14	<4.0	<7.5	<0.6	18	<2.1	518	<1.9	<0.015	<10	5.68	22.1	9.1	<4.5
Feb-15	<4.0	<7.5	<0.6	17	<2.1	341	<2.1	<0.015	<10	6.8	16.9	4	<4.5
May-15	<2.2	<1.9	<0.54	19	<0.72	440	<4.7	<0.028	<2.8	6.38	22.9	6.2	<2.2
Aug-15	<2.2	<1.9	<0.54	18	<0.72	527	<4.7	<0.028	<2.8	6.12	21.7	5.4	<2.2
Oct-15	<2.2	<1.9	<0.54	18	<0.72	450	<4.7	<0.028	<2.8	6.87	20.3	7.9	<2.2
Feb-16	<2.2	<1.9	<0.54	2.3	<0.72	429	<4.7	<0.028	<2.8	6.29	18.4	5	<2.2
May-16	<2.2	<1.9	<0.54	16	<0.72	560	<4.7	<0.028	<2.8	5.98	22.4	1.8	<2.2
Aug-16	<2.2	<1.9	<0.54	18	<0.72	250	<4.7	<0.028	<2.8	5.76	26.8	5.9	<2.2
Oct-16	<2.2	<1.9	<0.54	16	<0.72	260	<4.7	<0.028	<2.8	5.69	22.6	12	<2.2
Feb-17	<2.2	<1.9	<0.54	19	<0.72	200	<4.7	<0.028	<2.8	5.75	21.3	12	<2.2
Apr-17	<2.5	<3.1	<0.6	18	<1.3	429	<4.7	<0.028	<5	6.4	20	15	<2.5
Jul-17	<2.5	26	<0.6	16	<1.3	190	<4.7	<0.091	<5	6.46	22.7	4.6	<2.5

Notes:
Data is presented in units of µg/L unless otherwise noted
ND = Non-detect
J = Indicates value is between the method detection limit and practical quantitation limit and is an estimated concentration
Value following "<" represents the method detection limit

Historical Water Quality Data for MW071T

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Oct-94	ND	158	ND	2.31	ND	205	ND	ND	ND	8.13	21.7	11.9	ND
Apr-95	ND	110	ND	2.37	ND	148	ND	ND	ND	6.77	19.8	16.77	20.7
Oct-95	ND	132	ND	2.46	ND	168	ND	ND	ND	6.63	20.1	7.63	28.4
Apr-96	ND	107	ND	2.61	ND	175	ND	0.28	ND	6.68	17.3	6.88	23
Oct-96	ND	124	ND	2.62	ND	186	ND	ND	ND	6.82	19	3.64	ND
Apr-97	18.3	115	ND	2.66	ND	192	ND	ND	ND	6.18	19.8	6.11	ND
Oct-97	ND	113	ND	2.09	ND	174	ND	ND	ND	5.88	19.9	4.01	ND
Apr-98	ND	120	ND	2.08	ND	173	ND	ND	ND	6.26	20.1	4.52	ND
Oct-98	ND	118	ND	2.19	ND	203	ND	ND	ND	6.56	19.6	4.5	ND
Apr-99	ND	160	ND	2.6	ND	180	ND	ND	ND	5.8	19	11	20
Oct-99	ND	125	ND	2.21	ND	212	ND	ND	ND	6.5	19.7	8.56	49.6
Apr-00	ND	115	ND	2.38	ND	154	ND	ND	ND	6.15	19	2.45	ND
Oct-00	ND	123	ND	2.01	ND	ND	ND	ND	ND	ND	ND	ND	7.18
Apr-01	ND	112	ND	2.27	ND	202	ND	ND	ND	6.26	20	7.4	ND
Oct-01	ND	ND	ND	2.04	ND	171	ND	ND	ND	6.46	18.7	7.66	ND
Apr-02	ND	ND	ND	2.19	ND	192	ND	ND	ND	6.17	20	7.8	ND
Oct-02	ND	115	ND	2.29	ND	174	ND	ND	ND	6.54	18.8	4.2	ND
Apr-03	ND	116	ND	2.38	ND	196	ND	ND	ND	6.27	18.3	6.2	ND
Oct-03	ND	ND	ND	2.12	ND	169	ND	ND	ND	6.47	20.3	10.42	ND
Jan-04	ND	120	ND	2.2	ND	165	ND	ND	ND	6.6	16.9	6.97	ND
Apr-04	ND	ND	ND	2.04	ND	168	ND	ND	ND	6.4	18.9	9.2	ND
Jul-04	ND	ND	ND	2	ND	186	ND	ND	ND	6.8	20.1	8.22	ND
Oct-04	ND	ND	ND	2.2	ND	173	ND	ND	ND	6.5	20	2.32	ND
Jan-05	ND	ND	ND	2.15	ND	150	ND	ND	ND	6.8	19.8	12	ND
Apr-05	ND	110	ND	ND	ND	156	ND	ND	ND	6.5	21.2	4.11	ND
Jul-05	ND	ND	ND	ND	ND	158	ND	ND	ND	6.6	22.1	7.59	ND
Dec-05	ND	115	ND	2.34	ND	163	ND	ND	ND	6.8	18.9	1.94	ND
Jan-06	ND	114	ND	2.28	ND	146	ND	ND	ND	6.7	17.7	10.5	ND
May-06	ND	ND	ND	2.14	ND	150	ND	ND	ND	6.6	20.4	9.78	ND
Aug-06	<1.5	78.5 J	<1.0	1.98 J	3.55 J	132	<2.5	<0.06	<1.0	6.7	23.7	9.21	6.76 J
Dec-06	<1.5	113	<1.0	2.34	<1.0	169	<2.5	<0.06	<1.0	6.7	18.8	16.9	9.35 J
Feb-07	<1.5	91.7 J	<1.0	2.17	<1.0	94	3.06 J	<0.06	<1.0	6.9	17.5	12.8	7.07 J
Apr-07	<1.5	88.6 J	<1.0	2.17	<1.0	164	<2.5	<0.06	<1.0	6.6	22.7	5.61	3.28 J
Aug-07	<1.5	79.8 J	<1.0	2.24	1.94 J	149	<2.5	<0.03	<1.0	6.7	21	2.07	5.68 J
Nov-07	2.27 J	98.2	<1.0	2.21	<1.0	138	<2.5	<0.03	0.757 J	6.8	17.9	1.87	3.45 J
Feb-08	<1.5	79.1 J	<1.0	2.13	<2.0	114	<2.5	0.0927 J	<1.0	6.7	18.5	10.4	3.47 J
Apr-08	<1.5	85.4 J	<1.0	2.16	<2.0	115	<2.5	<0.03	<1.0	6.6	18.3	20.7	2.73 J
Jul-08	<1.5	83.6 J	<1.0	2.14	<2.0	159	<2.5	<0.03	<1.0	6.9	21.3	9.03	3.22 J
Nov-08	3.08 J	122	<1.0	2.21	1.53 J	138	<2.5	<0.067	0.673 J	6.9	21.1	20	12.6
Jan-09	<1.5	86.5 J	<1.0	2.34	<2.0	120	<2.5	<0.067	<1.0	6.7	17	11.8	2.66 J
Apr-09	<1.5	110	<1.0	2.08	<2.0	122	<2.5	<0.067	<1.0	6.5	20.2	13.2	7.55 J
Jul-09	<1.6	91.8 J	<1.0	2.15	1.82 J	140	<3.3	<0.066	<1.5	6.3	21.6	3.82	3.3 J
Dec-09	<1.6	90.9	<1.0	1.98 J	<1.0	131	<3.3	<0.066	0.795 J	6.5	16.3	9.81	3.02 J
Feb-10	<1.6	84.2 J	<1.0	1.97 J	1.06 J	116	<3.3	<0.066	<1.5	7	16.1	12.5	<3.3

Historical Water Quality Data for MW071T

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Apr-10	<1.6	85.5 J	<1.0	2.04	<1.0	125	<3.3	<0.066	<1.5	6.9	17.6	9.73	<3.3
Jul-10	<1.6	88.5 J	<1.0	2.06	1.46 J	141	<3.3	<0.066	<1.5	6.9	24.1	9.12	3.68 J
Nov-10	<1.6	86.1 J	<1.0	2	<1.0	125	<3.3	<0.066	<1.5	7	20.3	13.8	<3.3
Feb-11	<1.7	81.1 J	<1.0	2.13	1 J	104	<3.3	<0.066	<1.5	6.6	15.5	7.91	<3.3
May-11	<1.7	90.3 J	<1.0	2.14	<1.0	120	<3.3	<0.066	<1.5	6.7	18.2	10.1	<3.3
Jul-11	<1.7	87.8 J	<1.0	2.08	1.04 J	160	<3.3	<0.066	<1.5	6.7	21.7	9.88	<3.3
Nov-11	<1.7	83.6 J	<1.0	2.03	<1.0	130	<3.3	<0.066	<1.5	6.6	19.3	14.1	<3.3
Mar-12	<4.0	<7.5	<0.6	2.2	<2.1	151	<1.9	<0.053	<10	6.8	20.2	9.35	<4.5
May-12	<4.0	110	<0.6	2.3	<2.1	153	<1.9	<0.053	<10	6.54	24.5	13	<4.5
Aug-12	<4.0	<7.5	<0.6	2.2	<2.1	ND	<1.9	<0.053	<10	6.11	20.1	1.1	<4.5
Oct-12	<4.0	<7.5	<0.6	2	<2.1	140	<1.9	<0.053	<10	7.06	20	2.5	<4.5
Feb-13	<4.0	<7.5	<0.6	2.1	<2.1	177	<1.9	<0.015	<10	6.28	16.7	7.8	<4.5
May-13	<4.0	<7.5	<0.6	2.2	<2.1	131	<1.9	<0.015	<10	6.86	19.8	6.5	<4.5
Jul-13	<4.0	100	<0.6	2.1	<2.1	141	<1.9	<0.015	<10	6.45	23.3	4.7	<4.5
Oct-13	<4.0	110	<0.6	2.3	<2.1	168	<1.9	<0.015	<10	6.51	29	5.7	<4.5
Jan-14	<4.0	<7.5	<0.6	2.1	<2.1	110	<1.9	<0.015	<10	7.03	12.4	6.3	<4.5
Apr-14	<4.0	100	<0.6	2.3	<2.1	133	<1.9	<0.015	<10	6.93	19.5	9.4	<4.5
Jul-14	<4.0	<7.5	<0.6	2.3	<2.1	158	<1.9	<0.015	<10	6.79	25	8.3	<4.5
Oct-14	<4.0	130	<0.6	2.4	<2.1	147	<1.9	<0.015	<10	6.74	19.9	6.7	<4.5
Jan-15	<4.0	120	<0.6	2.5	<2.1	123	<2.1	<0.015	<10	6.87	16.2	7.5	<4.5
Apr-15	<2.2	<1.9	<0.54	2.3	<0.72	124	<4.7	<0.028	<2.8	6.77	17.1	8.7	<2.2
Aug-15	<2.2	120	<0.54	2.4	<0.72	181	<4.7	<0.028	<2.8	6.63	24.8	8.8	<2.2
Oct-15	<2.2	83	<0.54	2.4	<0.72	173	<4.7	<0.028	<2.8	6.25	20.7	9.1	<2.2
Jan-16	<2.2	<1.9	<0.54	2.3	<0.72	140	<4.7	<0.028	<2.8	6.85	18.3	8.2	<2.2
Apr-16	<2.2	<1.9	<0.54	2.4	<0.72	170	<4.7	<0.028	<2.8	6.6	23.5	7.9	<2.2
Aug-16	<2.2	110	<0.54	2.3	<0.72	130	<4.7	<0.028	<2.8	6.58	24.1	8	<2.2
Oct-16	<2.2	<1.9	<0.54	2.3	<0.72	110	<4.7	<0.028	<2.8	6.35	23.8	11	<2.2
Jan-17	<2.2	<1.9	<0.54	2.3	<0.72	100	<4.7	<0.028	<2.8	5.98	20.8	7.9	<2.2
Apr-17	<2.5	85	<0.6	2.3	<1.3	141	<4.7	<0.028	<5	7.23	21.5	13	<2.5
Jul-17	<2.5	110	<0.6	2.5	<1.3	110	<4.7	<0.091	<5	6.26	24.2	11	<2.5

Notes:
Data is presented in units of µg/L unless otherwise noted
ND = Non-detect
J = Indicates value is between the method detection limit and practical quantitation limit and is an estimated concentration
Value following "<" represents the method detection limit

Historical Water Quality Data for MW073T

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Oct-94	ND	105	ND	2.38	ND	223	ND	ND	ND	7.59	21.9	22.3	ND
Apr-95	ND	ND	ND	2.31	ND	182	ND	ND	ND	7.04	18.8	2.74	ND
Oct-95	ND	113	ND	2.34	ND	269	ND	ND	ND	6.82	19.8	7.62	ND
Apr-96	ND	102	ND	2.51	ND	214	ND	ND	ND	6.83	18.1	9.89	ND
Oct-96	ND	113	ND	2.53	ND	221	ND	ND	ND	6.84	19	5.3	ND
Apr-97	ND	100	ND	2.55	ND	221	ND	ND	ND	6.25	18.7	4.68	ND
Oct-97	ND	109	ND	ND	ND	203	ND	ND	ND	6.44	20	4.9	ND
Apr-98	ND	118	ND	ND	ND	242	ND	ND	ND	6.27	19.8	10	ND
Oct-98	ND	123	ND	2.14	ND	249	ND	ND	ND	7.07	19.5	17.6	ND
Apr-99	ND	150	ND	2.5	ND	220	ND	ND	ND	6.1	19	18	ND
Oct-99	ND	142	ND	2.14	ND	268	ND	ND	ND	6.69	19.3	3.5	ND
Apr-00	ND	156	ND	2.1	ND	196	ND	ND	ND	6.18	18.7	8.56	ND
Oct-00	ND	138	ND	2.07	ND	270	ND	ND	ND	6.48	20.1	2.7	ND
Apr-01	ND	154	ND	2.09	ND	287	ND	ND	ND	6.98	19.9	6.5	ND
Oct-01	ND	155	ND	ND	ND	226	ND	ND	ND	6.6	19.9	11.7	ND
Apr-02	ND	143	ND	2.09	ND	255	ND	ND	ND	6.47	20	3.8	ND
Oct-02	ND	145	ND	2.11	ND	249	ND	ND	ND	7.08	21.8	11.89	ND
Apr-03	ND	116	ND	2.11	ND	284	ND	ND	ND	7.48	18.3	39.4	ND
Oct-03	ND	126	ND	2.11	ND	251	ND	ND	ND	6.9	20.3	22.6	ND
Jan-04	ND	154	ND	ND	ND	233	ND	ND	ND	6.6	16.9	8.52	20.4
Apr-04	ND	160	ND	2.02	ND	241	ND	ND	ND	6.6	18.6	19.8	ND
Jul-04	ND	155	ND	ND	ND	236	ND	ND	ND	6.9	19.8	8.29	ND
Nov-04	ND	149	ND	2.14	ND	220	ND	ND	ND	6.7	19.1	1.7	5.35
Jan-05	ND	150	ND	2.05	ND	226	ND	ND	ND	6.9	20	21.9	ND
Apr-05	ND	147	ND	ND	ND	228	ND	ND	ND	6.7	20.4	17.5	ND
Jul-05	ND	140	ND	ND	ND	298	ND	ND	ND	6.9	21.7	4.88	ND
Oct-05	ND	124	ND	2.04	ND	242	ND	ND	ND	7	19.4	1.74	ND
Jan-06	ND	144	ND	2.08	ND	221	ND	ND	ND	6.9	17.8	11.7	ND
May-06	ND	134	ND	2.03	ND	280	ND	ND	ND	6.9	20.5	5	ND
Aug-06	<1.5	142	<1.0	1.91 J	<1.0	204	<2.5	<0.06	<1.0	6.9	22.5	8.67	7.46 J
Nov-06	<1.5	148	<1.0	2.16	<1.0	181	<2.5	<0.06	<1.0	7	18.7	3.1	6.41 J
Feb-07	<1.5	157	<1.0	2.08	<1.0	171	2.78 J	<0.06	<1.0	7.1	17.8	8.43	7.69 J
Apr-07	1.53 J	138	<1.0	2	1.04 J	221	<2.5	<0.06	<1.0	6.7	21	4.53	<2.0
Aug-07	<1.5	138	<1.0	2.1	1.08 J	227	<2.5	<0.03	<1.0	7	21.2	0.94	6.52 J
Nov-07	<1.5	126	<1.0	1.99 J	1.18 J	220	<2.5	<0.03	<1.0	7	20.2	7.14	3.97 J
Feb-08	<1.5	143	<1.0	2.01	<2.0	174	<2.5	0.0866 J	<1.0	6.8	18.4	9.13	3.94 J
Apr-08	<1.5	95.7 J	<1.0	2.08	<2.0	226	<2.5	<0.03	<1.0	7.1	19.4	21.5	4.07 J
Jul-08	<1.5	109	<1.0	2.03	2.84 J	215	<2.5	<0.03	<1.0	7	21.2	11.2	2.65 J
Nov-08	<1.5	124	<1.0	2.08	<2.0	216	<2.5	<0.067	<1.0	7.5	19.2	8.87	9.88 J
Jan-09	<1.5	183	<1.0	1.98 J	<2.0	196	<2.5	<0.067	<1.0	7.1	18.4	26.9	3.3 J
Apr-09	<1.5	159	<1.0	1.95 J	<2.0	197	<2.5	<0.067	<1.0	7	20.5	17.6	7.12 J
Jul-09	<1.6	160	<1.0	1.93 J	<1.0	220	<3.3	<0.066	<1.5	6.9	21.8	5.81	7.94 J
Oct-09	<1.6	152	<1.0	1.94 J	<1.0	201	<3.3	<0.066	<1.5	7.4	17.9	3.2	8.47 J
Feb-10	<1.6	154	<1.0	1.92 J	<1.0	168	<3.3	<0.066	<1.5	7.5	17.9	8.71	<3.3

Historical Water Quality Data for MW073T

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Apr-10	<1.6	87.8 J	<1.0	2.03	2.04 J	188	<3.3	<0.066	<1.5	7	19.6	8.44	<3.3
Jul-10	<1.6	134	<1.0	2.06	<1.0	211	<3.3	<0.066	<1.5	7.3	22.7	12.3	4.51 J
Nov-10	<1.6	110	<1.0	2.04	<1.0	177	<3.3	<0.066	<1.5	7.4	18.6	18.8	<3.3
Feb-11	<1.7	163	<1.0	2.07	<1.0	148	<3.3	<0.066	<1.5	7	16.6	10.3	<3.3
May-11	<1.7	165	<1.0	2.15	<1.0	192	<3.3	<0.066	<1.5	7.2	19	10	<3.3
Jul-11	<1.7	160	<1.0	2.06	<1.0	228	<3.3	<0.066	<1.5	7.3	21.8	15.3	<3.3
Nov-11	<1.7	140	<1.0	1.95 J	<1.0	189	<3.3	<0.066	<1.5	6.9	19.3	13.1	<3.3
Mar-12	<4.0	140	<0.6	2.2	<2.1	197	<1.9	<0.053	<10	7.07	19.7	8.79	<4.5
May-12	<4.0	150	<0.6	2.1	<2.1	209	<1.9	<0.053	<10	6.98	22.2	30	<4.5
Aug-12	<4.0	150	<0.6	2.1	<2.1	ND	<1.9	<0.053	<10	6.71	19.6	1.6	<4.5
Oct-12	<4.0	150	<0.6	<0.11	<2.1	174	<1.9	<0.053	<10	7.21	19.9	4.4	<4.5
Feb-13	<4.0	160	<0.6	2.1	<2.1	181	<1.9	<0.015	<10	6.81	16.1	4.9	<4.5
May-13	<4.0	140	<0.6	2.2	<2.1	171	<1.9	<0.015	<10	6.95	20.3	2.4	<4.5
Jul-13	<4.0	110	<0.6	2.2	<2.1	212	<1.9	<0.015	<10	6.96	23	4.6	<4.5
Oct-13	<4.0	170	<0.6	4.7	<2.1	213	<1.9	<0.015	<10	6.87	20.7	23	<4.5
Jan-14	<4.0	150	<0.6	2.1	<2.1	175	<1.9	<0.015	<10	6.94	15.6	8.1	<4.5
Apr-14	<4.0	200	<0.6	2.2	<2.1	181	<1.9	<0.015	<10	7.45	20.9	8.8	<4.5
Jul-14	<4.0	160	<0.6	2.1	<2.1	213	<1.9	<0.015	<10	7.31	22.5	9.4	<4.5
Oct-14	<4.0	170	<0.6	2.2	<2.1	218	<1.9	<0.015	<10	6.96	22.1	15	<4.5
Jan-15	<4.0	160	<0.6	2.2	<2.1	172	<2.1	<0.015	<10	7.35	16.6	8.5	<4.5
Apr-15	<2.2	130	<0.54	2.3	<0.72	177	<4.7	<0.028	<2.8	6.81	16	5.2	<2.2
Aug-15	<2.2	160	<0.54	2.2	<0.72	213	<4.7	<0.028	<2.8	6.82	29.2	7.1	<2.2
Oct-15	<2.2	150	<0.54	2.2	<0.72	208	<4.7	<0.028	<2.8	6.8	18.3	8.7	<2.2
Jan-16	<2.2	160	<0.54	2.2	<0.72	188	<4.7	<0.028	<2.8	7.04	18.7	9.8	<2.2
Apr-16	<2.2	120	<0.54	2.2	<0.72	250	<4.7	<0.028	<2.8	7.27	21.6	15	<2.2
Aug-16	<2.2	180	<0.54	2.3	<0.72	160	<4.7	<0.028	<2.8	7.27	22.5	3.4	<2.2
Oct-16	<2.2	140	<0.54	2.2	<0.72	140	<4.7	<0.028	<2.8	7.17	24.2	9.3	<2.2
Jan-17	<2.2	110	<0.54	2.5	<0.72	120	<4.7	<0.028	<2.8	6.82	20.7	7.3	<2.2
Apr-17	<2.5	170	<0.6	3	<1.3	184	<4.7	<0.028	<5	7.27	21.6	6.1	<2.5
Jul-17	<2.5	160	<0.6	4.5	<1.3	140	<4.7	<0.091	<5	6.84	25.3	24	32

Notes:
Data is presented in units of µg/L unless otherwise noted
ND = Non-detect
J = Indicates value is between the method detection limit and practical quantitation limit and is an estimated concentration
Value following "<" represents the method detection limit

Historical Water Quality Data for MW080TR

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Jul-96	ND	ND	ND	3.2	ND	179	ND	ND	ND	6.55	19.1	1.76	ND
Jan-97	ND	ND	ND	3.58	ND	214	ND	ND	ND	6.3	17.7	7.8	ND
Jul-97	ND	ND	ND	3.74	ND	203	ND	ND	ND	6.32	19.1	11	ND
Jan-98	ND	ND	ND	3.31	ND	169	ND	ND	ND	6	17.5	17	ND
Jul-98	ND	ND	ND	3.26	ND	215	ND	ND	ND	6.68	21	14.8	ND
Jan-99	ND	ND	ND	2.9	ND	213	ND	ND	ND	6.75	18.8	32	ND
Jul-99	ND	ND	ND	2.64	ND	265	ND	ND	ND	6.42	19.5	13.3	ND
Jan-00	ND	ND	ND	3.3	ND	164	ND	ND	ND	6.13	18.2	19.7	ND
Jul-00	ND	ND	ND	2.72	ND	197	ND	ND	ND	6.32	21.3	10	ND
Jan-01	ND	ND	ND	2.86	ND	255	ND	ND	ND	6.55	18.3	4.49	ND
Jul-01	ND	ND	ND	2.35	ND	203	ND	ND	ND	6.77	20	6.94	ND
Jan-02	ND	ND	ND	2.65	ND	195	ND	ND	ND	6.72	18.3	4.58	ND
Jul-02	ND	ND	ND	2.68	ND	190	ND	ND	ND	6.27	20	3.15	ND
Jan-03	ND	ND	ND	2.75	ND	191	ND	ND	ND	6.55	17.8	1.8	ND
Jul-03	ND	ND	ND	2.78	ND	189	ND	ND	ND	6.95	22.5	3.37	ND
Jan-04	ND	ND	ND	2.92	ND	178	ND	ND	ND	7	17.2	5.5	ND
Apr-04	ND	ND	ND	2.72	ND	186	ND	ND	ND	6.6	18.6	4.1	ND
Jul-04	ND	ND	ND	2.87	ND	203	ND	ND	ND	6.9	20.7	5.08	ND
Oct-04	ND	ND	ND	2.78	ND	176	ND	ND	ND	6.6	17.8	3.6	ND
Jan-05	ND	ND	ND	3.05	ND	176.9	ND	ND	ND	6.7	16.5	4.82	ND
Apr-05	ND	ND	ND	2.62	ND	174	ND	ND	ND	6.7	19.3	1.96	ND
Jul-05	ND	ND	ND	2.6	ND	177	ND	ND	ND	6.5	21.8	10.32	ND
Oct-05	ND	ND	ND	2.67	ND	176	ND	ND	ND	6.8	18.7	0.77	ND
Jan-06	ND	ND	ND	2.7	ND	161	ND	ND	ND	7	16.1	3.45	ND
May-06	ND	ND	ND	2.7	ND	152	ND	ND	ND	6.7	19.2	7.52	ND
Aug-06	<1.5	84.4 J	<1.0	2.73	1.14 J	193	5.15 J	<0.06	1.72 J	7	23.7	1.05	7.87 J
Nov-06	<1.5	83.2 J	<1.0	2.7	<1.0	135	<2.5	<0.06	1.41 J	6.9	19.2	2	8.09 J
Feb-07	<1.5	79.2 J	<1.0	2.66	<1.0	148	3.19 J	<0.06	<1.0	7.2	14.8	0.95	7.82 J
May-07	<1.5	80.9 J	<1.0	2.67	<1.0	150	<2.5	<0.06	1.19 J	6.7	20.6	1.66	2.27 J
Aug-07	<1.5	86.6 J	<1.0	2.56	<1.0	139	<2.5	<0.03	2.69 J	6.9	23.1	1.39	4.87 J
Nov-07	<1.5	87.8 J	<1.0	2.62	<1.0	157	<2.5	<0.03	2.52 J	6.8	19	3.56	8.33 J
Feb-08	<1.5	98.6 J	<1.0	2.48	<2.0	143	<2.5	<0.03	3.53 J	6.8	17.6	6.45	6.23 J
Apr-08	<1.5	91.6 J	<1.0	2.53	<2.0	151	<2.5	<0.03	4.54 J	7.2	19.9	15.2	7.31 J
Aug-08	<1.5	86.9 J	<1.0	2.6	<2.0	169	<2.5	<0.03	2.43 J	6.6	23.1	11.7	5.98 J
Nov-08	<1.5	82 J	<1.0	2.56	<2.0	157	<2.5	<0.067	<1.0	7	18.8	1.63	6.36 J
Feb-09	<1.5	91.1 J	<1.0	2.54	4.69 J	127	3.21 J	<0.067	5.33 J	6.7	15.9	9.92	8.38 J
May-09	<1.5	87.3 J	<1.0	2.5	<2.0	171	<2.5	<0.067	2.27 J	6.6	21.6	8.74	6.56 J
Jul-09	<1.6	83 J	<1.0	2.41	<1.0	157	<3.3	<0.066	<1.5	6.6	22.2	2.29	8.19 J
Oct-09	<1.6	90.2 J	<1.0	2.43	4.32 J	155	<3.3	<0.066	2 J	6.7	20.3	9.87	8.3 J
Feb-10	<1.6	89.1 J	<1.0	2.41	1.11 J	120	<3.3	<0.066	1.92 J	6.7	9	2.7	<3.3
May-10	<1.6	86 J	<1.0	2.43	<1.0	162	<3.3	<0.066	3.19 J	6.8	20.9	6.71	5.44 J
Aug-10	<1.6	87.4 J	<1.0	2.57	<1.0	150	<3.3	<0.066	<1.5	6.7	20.8	12.1	6.39 J
Nov-10	<1.6	80.9 J	<1.0	2.6	<1.0	153	<3.3	<0.066	2.07 J	6.2	19.8	10.7	<3.3
Feb-11	<1.7	85 J	<1.0	2.67	<1.0	137	<3.3	<0.066	<1.5	6.5	15.5	9.2	12.2 J

Historical Water Quality Data for MW080TR

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
May-11	<1.7	87.3 J	<1.0	2.69	<1.0	160	<3.3	<0.066	<1.5	6.8	22	6.7	5.08 J
Aug-11	<1.7	89 J	<1.0	2.53	<1.0	165	<3.3	<0.066	<1.5	7.2	21.7	18.3	3.75 J
Nov-11	<1.7	95.8 J	<1.0	2.53	<1.0	140	<3.3	<0.066	<1.5	7	18.9	10.3	<3.3
Mar-12	<4.0	<7.5	<0.6	2.9	<2.1	158	<1.9	<0.053	<10	7.08	17.7	1.7	<4.5
May-12	<4.0	<7.5	<0.6	2.7	<2.1	176	<1.9	<0.053	<10	6.64	23.3	7	<4.5
Aug-12	<4.0	<7.5	<0.6	2.6	<2.1	181	<1.9	<0.053	<10	6.81	22.9	3.3	<4.5
Nov-12	<4.0	100	<0.6	2.4	<2.1	141	<1.9	<0.053	<10	6.8	12.5	ND	<4.5
Feb-13	<4.0	110	<0.6	2.6	<2.1	190	<1.9	<0.015	<10	6.91	15.6	ND	<4.5
Aug-13	<4.0	<7.5	<0.6	2.7	<2.1	164	<1.9	<0.015	<10	7.35	19.3	ND	<4.5
Aug-13	<4.0	<7.5	<0.6	2.6	<2.1	155	<1.9	<0.015	<10	6.64	23.6	3.3	<4.5
Oct-13	<4.0	<7.5	<0.6	2.9	<2.1	161	<1.9	<0.015	<10	6.71	19.8	3.4	<4.5
Feb-14	<4.0	<7.5	<0.6	2.7	<2.1	152	<1.9	<0.015	<10	7.31	17.5	1.1	<4.5
Apr-14	<4.0	100	<0.6	2.8	<2.1	151	<1.9	<0.015	<10	6.92	19.1	ND	<4.5
Jul-14	<4.0	<7.5	<0.6	2.9	<2.1	191	<1.9	<0.015	<10	6.54	24.2	2.6	<4.5
Oct-14	<4.0	100	<0.6	2.7	<2.1	164	<1.9	<0.015	<10	6.75	20.9	4.1	<4.5
Feb-15	<4.0	<7.5	<0.6	2.8	<2.1	139	<2.1	<0.015	<10	7.58	17	140	<4.5
May-15	<2.2	<1.9	<0.54	2.9	<0.72	170	<4.7	<0.028	<2.8	6.44	24.4	2.4	<2.2
Aug-15	<2.2	<1.9	<0.54	2.7	<0.72	200	<4.7	<0.028	<2.8	6.12	25.4	8.6	<2.2
Nov-15	<2.2	<1.9	<0.54	2.8	<0.72	204	<4.7	<0.028	<2.8	6.6	20.2	4.1	<2.2
Feb-16	<2.2	<1.9	<0.54	2.5	<0.72	179	<4.7	<0.028	<2.8	6.74	11.9	--	<2.2
May-16	<2.2	<1.9	<0.54	2.9	<0.72	159	<4.7	<0.028	<2.8	6.78	20.3	3.1	<2.2
Aug-16	<2.2	<1.9	<0.54	2.9	<0.72	130	<4.7	<0.028	<2.8	6.64	21.7	1.2	<2.2
Oct-16	<2.2	<1.9	<0.54	2.7	<0.72	130	<4.7	<0.028	<2.8	6.45	23.9	2.8	<2.2
Feb-17	<2.2	<1.9	<0.54	2.7	<0.72	220	<4.7	<0.028	<2.8	6.44	21.7	3.5	<2.2
May-17	<2.5	86	<0.6	2.8	<1.3	185	<4.7	<0.028	<5	5.87	18.6	1.6	59
Jul-17	<2.5	88	<0.6	2.7	<1.3	110	<4.7	<0.091	<5	7.05	22.2	2.6	<2.5

Notes:
Data is presented in units of µg/L unless otherwise noted
ND = Non-detect
J = Indicates value is between the method detection limit and practical quantitation limit and is an estimated concentration
Value following "<" represents the method detection limit

Historical Water Quality Data for MW081T

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Apr-94	ND	ND	ND	ND	ND	292	ND	ND	ND	8.55	20	3.75	ND
Jul-94	ND	ND	ND	ND	ND	266	ND	ND	ND	7.11	21.5	3.81	ND
Oct-94	ND	ND	ND	ND	ND	250	ND	ND	ND	7.2	19.6	3.95	ND
Jan-95	ND	ND	ND	ND	ND	252	ND	ND	ND	7.88	18.5	4.93	ND
Apr-95	ND	ND	ND	ND	ND	205	ND	ND	ND	7.45	17	2.54	ND
Jul-95	ND	ND	ND	ND	ND	209	ND	ND	ND	6.95	23.2	ND	ND
Oct-95	ND	ND	ND	ND	ND	209	ND	ND	ND	7.1	22.2	3.6	ND
Jan-96	ND	ND	ND	ND	ND	139	ND	ND	ND	6.86	17.8	25.4	ND
Apr-96	ND	66.8	ND	1.57	ND	222	ND	ND	ND	6.82	17.8	7.5	ND
Jul-96	ND	ND	ND	ND	ND	213	ND	ND	ND	6.14	19.4	3.45	ND
Oct-96	ND	ND	ND	ND	ND	270	ND	ND	ND	6.76	18.3	4.64	ND
Jan-97	ND	ND	ND	ND	ND	179	ND	ND	ND	6.76	18.5	4.98	ND
Apr-97	ND	ND	ND	ND	ND	217	ND	ND	ND	6.29	19.1	3.61	ND
Jul-97	ND	ND	ND	ND	ND	194	ND	ND	ND	6.4	19.5	4.08	ND
Oct-97	ND	ND	ND	ND	ND	205	ND	ND	ND	6.01	19.3	4.06	ND
Jan-98	ND	ND	ND	ND	ND	211	ND	ND	ND	6.39	ND	ND	ND
Apr-98	ND	ND	ND	ND	ND	214	ND	ND	ND	5.92	19.5	2.19	ND
Jul-98	ND	ND	ND	ND	ND	218	ND	ND	ND	6.72	20.3	2.09	ND
Oct-98	ND	ND	ND	1.24	ND	218	ND	ND	ND	6.17	19.7	6.34	ND
Jan-99	ND	ND	ND	ND	ND	208	ND	ND	ND	6.25	18.7	13.2	27.9
Apr-99	ND	ND	ND	1.5	ND	200	ND	ND	ND	5.7	20	5.8	ND
Jul-99	ND	ND	ND	1.22	ND	238	ND	ND	ND	6.13	19.5	8.4	ND
Oct-99	ND	ND	ND	ND	ND	209	ND	ND	ND	5.86	19	6.02	ND
Jan-00	ND	ND	ND	ND	ND	190	ND	ND	ND	6.44	18.6	9.25	ND
Apr-00	ND	ND	ND	ND	ND	197	ND	ND	ND	6.16	18.9	11.5	ND
Jul-00	ND	ND	ND	ND	ND	188	ND	ND	ND	6.22	20.8	2.12	ND
Oct-00	ND	ND	ND	ND	ND	204	ND	ND	ND	6.47	20.2	8.9	ND
Jan-01	ND	ND	ND	ND	ND	218	ND	ND	ND	6.4	17.9	10.64	ND
Apr-01	ND	ND	ND	ND	ND	170	ND	ND	ND	6.33	20.1	11.05	ND
Jul-01	ND	ND	ND	ND	ND	196	ND	ND	ND	6.69	20	13.1	ND
Oct-01	ND	ND	ND	ND	ND	180	ND	ND	ND	6.31	18.4	8.69	ND
Jan-02	ND	ND	ND	ND	ND	191	ND	ND	ND	6.58	17.4	11.76	ND
Apr-02	ND	ND	ND	7.91	ND	171	ND	ND	ND	6.54	20	12.8	ND
Jul-02	ND	ND	ND	ND	ND	184	ND	ND	ND	6.34	20.7	2.34	ND
Oct-02	ND	ND	ND	ND	ND	191	ND	ND	ND	6.63	19.6	7.79	ND
Jan-03	ND	ND	ND	ND	ND	203	ND	ND	ND	6.38	17.5	10.1	ND
Apr-03	ND	ND	ND	ND	ND	200	ND	ND	ND	6.81	17.4	14.2	ND
Jul-03	ND	ND	ND	ND	ND	184	ND	ND	ND	6.3	20	9.79	ND
Oct-03	ND	ND	ND	ND	ND	183	ND	ND	ND	6.44	18.9	3.9	ND
Jan-04	ND	ND	ND	ND	ND	181	ND	ND	ND	6.7	17.5	3.05	ND
Apr-04	ND	ND	ND	ND	ND	180	ND	ND	ND	6.6	18.3	13.8	ND
Jul-04	ND	ND	ND	ND	ND	217	ND	ND	ND	7	19.3	7.05	ND
Oct-04	ND	ND	ND	ND	ND	178	ND	ND	ND	6.5	20.7	8.8	ND
Jan-05	ND	ND	ND	ND	ND	179	ND	ND	ND	6.6	19.2	15	ND

Historical Water Quality Data for MW081T

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Apr-05	ND	ND	ND	ND	ND	185	ND	ND	ND	6.5	18.9	17.1	ND
Jul-05	ND	ND	ND	ND	ND	172	ND	ND	ND	6.6	23.4	4.8	ND
Oct-05	ND	ND	ND	ND	ND	178	ND	ND	ND	6.8	19.5	6.63	ND
Jan-06	ND	ND	ND	ND	ND	150	ND	ND	ND	6.5	18.8	25.8	ND
May-06	ND	ND	ND	ND	ND	174	ND	ND	ND	6.5	21.3	9.61	ND
Aug-06	<1.5	56.9 J	<1.0	1.24 J	<1.0	196	<2.5	<0.06	<1.0	6.9	29.1	4.14	18.8 J
Nov-06	<1.5	41.5 J	<1.0	1.34 J	<1.0	129	<2.5	<0.06	<1.0	6.7	24.3	5.51	3.25 J
Feb-07	<1.5	62.3 J	<1.0	1.39 J	<1.0	129	<2.5	<0.06	1.15 J	6.7	18.1	8.26	7.46 J
Apr-07	<1.5	59.4 J	<1.0	1.37 J	<1.0	161	<2.5	<0.06	1.13 J	6.5	19.6	9.75	<2.0
Aug-07	<1.5	62.3 J	<1.0	1.39 J	<1.0	160	<2.5	<0.03	<1.0	6.5	24.8	5.16	<2.0
Nov-07	3.54 J	43 J	<1.0	1.33 J	<1.0	156	<2.5	<0.03	<1.0	6.7	22.7	7.2	4.35 J
Feb-08	<1.5	43.2 J	<1.0	1.35 J	<2.0	145	<2.5	<0.03	<1.0	6.6	18.7	10.5	6.74 J
Apr-08	<1.5	43 J	<1.0	1.4 J	<2.0	146	<2.5	<0.03	1.29 J	6.6	21.2	12.9	3.06 J
Aug-08	<1.5	38.2 J	<1.0	1.41 J	<2.0	155	<2.5	<0.03	<1.0	6.8	21.1	7.24	7.84 J
Nov-08	<1.5	39.3 J	<1.0	1.39 J	<2.0	146	<2.5	<0.067	<1.0	7.2	18.2	7.53	7.6 J
Feb-09	<1.5	39.2 J	<1.0	1.31 J	<2.0	121	<2.5	<0.067	<1.0	6.6	11.3	9.01	2.39 J
May-09	<1.5	39.8 J	<1.0	1.31 J	<2.0	151	<2.5	<0.067	1.76 J	6.4	20.8	8.6	5.94 J
Jul-09	<1.6	36 J	<1.0	1.31 J	<1.0	160	<3.3	<0.066	<1.5	6.5	23.3	2.15	5.54 J
Oct-09	<1.6	54.8 J	<1.0	1.3 J	<1.0	168	<3.3	<0.066	<1.5	6.6	19.8	6.99	7.24 J
Feb-10	<1.6	39.2 J	<1.0	1.33 J	<1.0	138	<3.3	<0.066	1.56 J	6.4	16.6	5.57	<3.3
Apr-10	<1.6	62 J	<1.0	1.45 J	<1.0	147	<3.3	<0.066	2.4 J	6.6	20.1	9.43	11.6 J
Jul-10	<1.6	37.5 J	<1.0	1.53 J	1.09 J	157	<3.3	<0.066	<1.5	6.8	22	8.86	3.97 J
Nov-10	<1.6	42.6 J	<1.0	1.36 J	<1.0	153	<3.3	<0.066	<1.5	6.7	21.1	10.8	<3.3
Feb-11	<1.7	41.1 J	<1.0	1.55 J	<1.0	134	<3.3	<0.066	<1.5	6.4	17	8.17	10.3 J
May-11	<1.7	42.5 J	<1.0	1.49 J	<1.0	145	<3.3	<0.066	2.59 J	6.4	19.7	9.97	<3.3
Jul-11	<1.7	37.7 J	<1.0	1.57 J	1.2 J	167	<3.3	<0.066	<1.5	6.5	22.5	13	<3.3
Nov-11	<1.7	36.5 J	<1.0	1.63 J	<1.0	147	<3.3	<0.066	<1.5	7	20.9	10.9	<3.3
Mar-12	<4.0	<7.5	<0.6	<0.11	<2.1	145	<1.9	<0.053	<10	7.41	17.6	4.2	<4.5

Notes:
Data is presented in units of µg/L unless otherwise noted
ND = Non-detect
J = Indicates value is between the method detection limit and practical quantitation limit and is an estimated concentration
Value following "<" represents the method detection limit
Well abandined 5/15/2012

Historical Water Quality Data for MW089T

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
May-94	ND	135	ND	3	ND	191	ND	ND	ND	7.83	19.9	5.85	ND
Jul-94	ND	157	ND	2.81	ND	190	ND	ND	ND	8.17	25.3	5.9	ND
Oct-94	ND	149	ND	209	ND	201	ND	ND	ND	8.21	21.3	6.65	ND
Jan-95	ND	152	ND	206	ND	172	ND	ND	ND	8.51	17.7	8.98	ND
Apr-95	ND	141	ND	2.46	ND	156	ND	ND	ND	8.48	21.7	9.61	ND
Jul-95	ND	117	ND	2.27	ND	169	ND	ND	ND	6.98	21.3	6	ND
Oct-95	ND	133	ND	2.58	ND	154	ND	ND	ND	6.66	21.1	4.93	ND
Jan-96	ND	142	ND	2.61	ND	179	ND	ND	ND	6.76	17.9	10.7	ND
Apr-96	ND	150	ND	2.62	ND	180	ND	ND	ND	6.85	19	7.1	ND
Jul-96	ND	153	ND	2.22	ND	189	ND	ND	ND	6.44	20	3.6	ND
Oct-96	ND	161	ND	2.53	ND	189	ND	ND	ND	6.78	20	1.7	ND
Jan-97	ND	143	ND	3.24	ND	212	ND	ND	ND	6.33	16.5	3.64	ND
Apr-97	ND	158	ND	2.89	ND	188	ND	ND	ND	6.3	19.2	3.53	ND
Jul-97	ND	152	ND	2.63	ND	191	ND	ND	ND	6.33	19	3.72	ND
Oct-97	ND	151	ND	2.65	ND	202	ND	ND	ND	6.92	18.8	6.39	ND
Jan-98	ND	148	ND	2.47	ND	206	ND	ND	ND	6.01	18.5	6.42	ND
Apr-98	ND	153	ND	2.55	ND	186	ND	ND	ND	6.35	18.9	2.13	ND
Jul-98	ND	145	ND	2.54	ND	201	ND	ND	ND	6.8	20.2	2.24	ND
Oct-98	ND	148	ND	2.35	ND	195	ND	ND	ND	6.15	19.3	2.22	ND
Jan-99	ND	147	ND	2.24	ND	226	ND	ND	ND	5.39	19.1	3.82	ND
Apr-99	ND	130	ND	2.7	ND	210	ND	ND	ND	5.8	19	4.8	ND
Jul-99	ND	142	ND	2.27	ND	236	ND	ND	ND	6.54	19.4	5.5	ND
Oct-99	ND	133	ND	2.29	ND	179	ND	ND	ND	6.98	19.2	7.9	ND
Jan-00	ND	157	ND	2.33	ND	157	ND	ND	ND	6.34	18.5	5.88	ND
Apr-00	ND	157	ND	2.16	ND	190	ND	ND	ND	6.68	19.3	4.13	ND
Jul-00	ND	156	ND	2.05	ND	179	ND	ND	ND	6.47	20.9	3.78	ND
Oct-00	ND	157	ND	2.14	ND	230	ND	ND	ND	6.75	19.1	1.24	ND
Jan-01	ND	154	ND	2.19	ND	326	ND	ND	ND	6.34	18.8	2.95	ND
Apr-01	ND	152	ND	2.34	ND	211	ND	ND	ND	6.82	18.3	4.03	ND
Jul-01	ND	143	ND	ND	ND	186	ND	ND	ND	6.55	20.2	4.48	ND
Oct-01	ND	174	ND	ND	ND	173	ND	ND	ND	6.94	18.6	4	ND
Jan-02	ND	149	ND	2.22	ND	180	ND	ND	ND	6.71	18.3	2.98	ND
Apr-02	ND	162	ND	2.38	ND	153	ND	ND	ND	6.69	20.8	4.3	ND
Jul-02	ND	152	ND	2.17	ND	164	ND	ND	ND	6.31	21.1	2.89	ND
Oct-02	ND	152	ND	2.37	ND	191	ND	ND	ND	6.88	18.1	3.23	ND
Jan-03	ND	150	ND	2.34	ND	200	ND	ND	ND	6.1	17.8	4.32	ND
Apr-03	ND	168	ND	2.39	ND	189	ND	ND	ND	7.12	19.4	4.05	ND
Jul-03	ND	154	ND	2.41	ND	174	ND	ND	ND	6.59	21.2	5.48	ND
Oct-03	ND	158	ND	2.36	ND	182	ND	ND	ND	6.71	20	3.58	ND
Jan-04	ND	151	ND	2.41	ND	179	ND	ND	ND	6.8	17.5	8.55	ND
Apr-04	ND	154	ND	2.28	ND	177	ND	ND	ND	6.7	19	7.69	ND
Jul-04	ND	156	ND	2.39	ND	235	ND	ND	ND	7.3	21.2	5.47	ND
Oct-04	ND	158	ND	2.36	ND	173	ND	ND	ND	6.6	20.6	4.25	ND
Jan-05	ND	141	ND	2.25	ND	172.9	ND	ND	ND	6.7	16.7	4.35	ND
Apr-05	ND	154	ND	2.14	ND	188	ND	ND	ND	6.7	20.3	6.73	ND

Historical Water Quality Data for MW089T

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Jul-05	ND	150	ND	2.2	ND	173	ND	ND	ND	6.6	22.1	5.37	ND
Oct-05	ND	153	ND	2.31	ND	170	ND	ND	ND	6.9	23	6.5	ND
Jan-06	ND	154	ND	2.31	ND	155	ND	ND	ND	6.7	19.8	4.75	ND
May-06	ND	160	ND	2.36	ND	167	ND	ND	ND	7	20.7	12.7	ND
Aug-06	<1.5	158	<1.0	2.3	<1.0	184	<2.5	<0.06	<1.0	6.6	22.1	5.53	8.23 J
Nov-06	<1.5	159	<1.0	2.39	<1.0	131	<2.5	<0.06	<1.0	7	21.7	3.19	6.51 J
Feb-07	<1.5	139	<1.0	2.37	<1.0	162	<2.5	<0.06	<1.0	7.1	19.8	3.51	7.37 J
May-07	<1.5	159	<1.0	2.37	<1.0	161	<2.5	<0.06	1 J	6.8	21.1	3.38	<2.0
Aug-07	<1.5	137	<1.0	2.31	<1.0	144	<2.5	<0.03	<1.0	7.4	23.2	3.42	6.34 J
Nov-07	2.98 J	149	<1.0	2.38	<1.0	157	<2.5	<0.03	<1.0	6.7	22.3	4.8	3.97 J
Feb-08	<1.5	165	<1.0	2.17	<2.0	127	<2.5	<0.03	<1.0	6.9	17.4	6.69	2.72 J
Apr-08	<1.5	141	<1.0	2.26	2.2 J	153	<2.5	<0.03	<1.0	7.3	19.8	11.2	4.08 J
Aug-08	<1.5	161	<1.0	2.3	<2.0	178	<2.5	<0.03	<1.0	7.6	23.5	9.48	7.81 J
Nov-08	<1.5	169	<1.0	2.28	<2.0	167	<2.5	<0.067	<1.0	7.3	22.2	5.7	4.68 J
Feb-09	<1.5	145	<1.0	2.18	<2.0	115	3.43 J	<0.067	<1.0	6.7	9.2	8.06	7.36 J
May-09	<1.5	150	<1.0	2.38	<2.0	149	<2.5	<0.067	<1.0	6.6	20	11.8	4 J
Jul-09	<1.6	149	<1.0	2.23	<1.0	163	<3.3	<0.066	<1.5	7.7	22.3	3.71	3.57 J
Oct-09	<1.6	152	<1.0	2.27	1.05 J	161	<3.3	<0.066	<1.5	6.7	21.3	7.89	6.36 J
Feb-10	<1.6	150	<1.0	2.18	<1.0	115	<3.3	<0.066	<1.5	6.9	9	2.97	<3.3
May-10	<1.6	145	<1.0	2.18	<1.0	179	<3.3	<0.066	<1.5	6	27.4	7.28	3.63 J
Aug-10	<1.6	143	<1.0	2.46	<1.0	194	<3.3	<0.066	1.84 J	6.9	21.4	7.3	<3.3
Nov-10	<1.6	147	<1.0	2.38	<1.0	163	<3.3	<0.066	<1.5	6.2	21.4	10.7	<3.3
Feb-11	<1.7	150	<1.0	2.41	<1.0	133	<3.3	<0.066	<1.5	6.7	14	6.13	8.23 J
May-11	<1.7	154	<1.0	2.47	<1.0	180	<3.3	<0.066	<1.5	6.8	20.5	11.7	4.11 J
Aug-11	<1.7	173	<1.0	2.38	1.51 J	179	<3.3	0.098 J	<1.5	6.8	27.2	13	<3.3
Nov-11	<1.7	150	<1.0	2.35	<1.0	147	<3.3	<0.066	<1.5	6.8	22	9.93	<3.3
Mar-12	<4.0	170	<0.6	2.6	<2.1	171	<1.9	<0.053	<10	6.86	23.9	3.4	<4.5
May-12	<4.0	140	<0.6	2.6	<2.1	174	<1.9	<0.053	<10	6.74	22.6	27	100
Aug-12	<4.0	140	<0.6	3	<2.1	207	<1.9	<0.053	<10	6.66	28.8	3.8	27
Nov-12	<4.0	150	<0.6	2.3	<2.1	150	<1.9	<0.053	<10	6.74	14.9	ND	<4.5
Feb-13	<4.0	150	<0.6	2.4	<2.1	193	<1.9	<0.015	<10	6.73	18	ND	<4.5
May-13	<4.0	130	<0.6	2.5	<2.1	192	<1.9	<0.015	<10	7.06	25.2	1.7	<4.5
Aug-13	<4.0	150	<0.6	2.5	<2.1	182	<1.9	<0.015	<10	7.16	26.1	3.6	<4.5
Nov-13	<4.0	160	<0.6	2.7	<2.1	163	<1.9	<0.015	<10	6.87	17.7	7	<4.5
Feb-14	<4.0	140	<0.6	2.5	<2.1	138	<1.9	<0.015	<10	6.73	13.7	4.8	<4.5
Apr-14	<4.0	140	<0.6	2.6	<2.1	165	<1.9	<0.015	<10	6.91	21.4	3.5	<4.5
Jul-14	<4.0	130	<0.6	2.6	<2.1	184	<1.9	<0.015	<10	6.55	25.6	3.1	<4.5
Oct-14	<4.0	160	<0.6	2.5	<2.1	214	<1.9	<0.015	<10	7.15	24.8	5.8	<4.5
Feb-15	<4.0	140	<0.6	2.6	<2.1	116	<2.1	<0.015	<10	7.17	11.4	4.4	<4.5
May-15	<2.2	160	<0.54	2.7	<0.72	158	<4.7	<0.028	<2.8	7.05	21.3	4.7	<2.2
Aug-15	<2.2	140	<0.54	2.5	<0.72	203	<4.7	<0.028	<2.8	6.73	30.5	6.1	<2.2
Aug-15	<2.2	150	<0.54	2.7	<0.72	178	<4.7	<0.028	<2.8	6.74	21.8	9.8	<2.2
Feb-16	<2.2	140	<0.54	2.5	<0.72	185	<4.7	<0.028	<2.8	6.67	14.3	5.6	<2.2
May-16	<2.2	150	<0.54	2.7	<0.72	153	<4.7	<0.028	<2.8	6.69	28.9	5.2	<2.2
Aug-16	<2.2	140	<0.54	2.6	<0.72	140	<4.7	<0.028	<2.8	6.83	29.1	1.2	<2.2

Historical Water Quality Data for MW089T

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Oct-16	<2.2	150	<0.54	2.6	<0.72	130	<4.7	<0.028	<2.8	6.58	27.9	4.5	<2.2
Jan-17	<2.2	120	<0.54	2.6	<0.72	130	<4.7	<0.028	<2.8	6.54	18.6	3.9	<2.2
Apr-17	<2.5	130	<0.6	2.6	<1.3	120	12	<0.028	<5	6.3	29.3	6.2	<2.5
Jul-17	<2.5	140	<0.6	2.6	<1.3	100	<4.7	<0.091	<5	6.43	23.1	3.7	<2.5

Notes:
Data is presented in units of µg/L unless otherwise noted
ND = Non-detect
J = Indicates value is between the method detection limit and practical quantitation limit and is an estimated concentration
Value following "<" represents the method detection limit

Historical Water Quality Data for MW096T

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Apr-94	ND	188	ND	2	ND	2.68	ND	ND	ND	7.17	21.4	2.86	ND
Jul-94	ND	208	ND	2.62	ND	281	ND	ND	ND	9.3	22.5	2.46	ND
Oct-94	ND	206	ND	2.31	ND	285	ND	ND	ND	7.58	20.3	ND	ND
Jan-95	ND	230	ND	2.11	ND	237	ND	ND	ND	7.35	19	1.9	ND
Apr-95	ND	193	ND	2.07	ND	215	ND	ND	ND	8.27	17.3	1.5	ND
Jul-95	ND	210	ND	2.27	ND	524	ND	ND	ND	7.19	21.9	1.7	ND
Oct-95	ND	230	ND	2.39	ND	210	ND	ND	ND	7.08	20.3	ND	ND
Jan-96	ND	205	ND	2.61	ND	219	ND	ND	ND	7.12	18	1.31	ND
Apr-96	ND	232	ND	2.61	ND	206	ND	ND	ND	7.21	17.9	1.42	ND
Jul-96	ND	201	ND	ND	ND	260	ND	ND	ND	7.06	20.4	ND	ND
Oct-96	ND	218	ND	2.28	ND	272	ND	ND	ND	7.22	19.4	ND	ND
Jan-97	ND	238	ND	2.4	ND	177	ND	ND	ND	6.87	18.2	ND	ND
Apr-97	ND	215	ND	2.44	ND	242	ND	ND	ND	7.08	19.8	ND	ND
Jul-97	ND	189	ND	2.47	ND	267	ND	ND	ND	6.89	19.9	1.12	ND
Oct-97	ND	240	ND	2.97	ND	243	ND	ND	ND	6.63	19	ND	ND
Jan-98	ND	173	ND	2.4	ND	246	ND	ND	ND	6.47	18.2	ND	ND
Apr-98	ND	240	ND	2.27	ND	279	ND	ND	ND	7.04	18.9	ND	ND
Jul-98	ND	173	ND	2.43	ND	241	ND	ND	ND	7.46	21.1	1.15	63.8
Oct-98	ND	224	ND	2.09	ND	245	ND	ND	ND	6.77	19.1	ND	ND
Jan-99	ND	218	ND	2.13	ND	204	ND	ND	ND	7.1	18.8	ND	ND
Apr-99	ND	172	ND	2.5	ND	290	ND	ND	ND	6.8	19	0.5	ND
Jul-99	ND	215	ND	2.06	ND	360	ND	ND	ND	7.06	19.8	ND	ND
Oct-99	ND	190	ND	2.26	ND	257	ND	ND	ND	7.28	19.3	1.85	ND
Jan-00	ND	214	ND	2.09	ND	223	ND	ND	ND	7.08	18.4	0.74	ND
Apr-00	ND	ND	ND	2.05	ND	261	ND	ND	ND	6.63	18.7	0.77	ND
Jul-00	ND	218	ND	2.19	ND	277	ND	ND	ND	6.62	21.1	0.98	ND
Oct-00	ND	217	ND	ND	ND	310	ND	ND	ND	7.16	19	1.59	ND
Jan-01	ND	245	ND	2.23	ND	319	ND	ND	ND	6.89	18.6	0.91	ND
Apr-01	ND	185	ND	ND	ND	247	ND	ND	ND	7.12	18.1	1.15	ND
Jul-01	ND	141	ND	ND	ND	254	ND	ND	ND	7.46	20.3	1.35	ND
Oct-01	ND	118	ND	ND	ND	251	ND	ND	ND	7.26	17.8	0.67	ND
Jan-02	ND	171	ND	2.1	ND	227	ND	ND	ND	7.18	17.8	1.16	ND
Apr-02	ND	177	ND	2.09	ND	265	ND	ND	ND	7.03	21.1	1.57	ND
Jul-02	ND	162	ND	2	ND	275	ND	ND	ND	7.12	21.1	0.65	ND
Oct-02	ND	133	ND	2.18	ND	253	ND	ND	ND	7.69	19.2	0.69	ND
Jan-03	ND	148	ND	2.2	ND	221	ND	ND	ND	7.2	18	1.26	ND
Apr-03	ND	116	ND	2.2	ND	206	ND	ND	ND	7.61	18.3	0.38	ND
Jul-03	ND	ND	ND	2.22	ND	193	ND	ND	ND	8.17	20.6	1.28	ND
Oct-03	ND	ND	ND	2.27	ND	126	ND	ND	ND	8.83	18.3	0.48	ND
Jan-04	ND	ND	ND	2.33	ND	172	ND	0.259	ND	7.5	17.2	0.5	ND
Jan-05	ND	ND	ND	2.49	ND	144	ND	ND	ND	7.5	16.8	1.78	ND
Jan-06	ND	140	ND	2.38	ND	192	ND	ND	ND	7.5	18.7	1.25	ND
Feb-07	<1.5	169	<1.0	2.38	1.92 J	174	<2.5	<0.06	<1.0	7.7	18.6	2.14	9.64 J
Feb-08	<1.5	183	<1.0	2.33	2.39 J	162	<2.5	<0.03	<1.0	7.2	16.6	7.3	8.39 J

Historical Water Quality Data for MW096T

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Feb-09	<1.5	151	<1.0	2.36	4.82 J	162	<2.5	<0.067	2.51 J	7.1	16.6	9.13	11.4 J
Feb-10	<1.6	190	<1.0	2.25	1.18 J	170	<3.3	<0.066	<1.5	7.4	15.8	2.29	<3.3
Feb-11	<1.7	179	<1.0	2.5	1.68 J	217	<3.3	<0.066	<1.5	7.4	19.6	7.68	3.38 J
Mar-12	<4.0	180	<0.6	2.8	<2.1	189	<1.9	<0.053	<10	7.44	18.2	1.1	<4.5
Feb-13	<4.0	220	<0.6	2.5	<2.1	229	<1.9	<0.015	<10	6.86	13.8	ND	<4.5
Feb-14	<4.0	<7.5	<0.6	3.4	<2.1	129	<1.9	<0.015	<10	7.09	16.1	ND	<4.5
Feb-15	<4.0	110	<0.6	3.4	<2.1	257	<2.1	<0.015	<10	7.62	15.3	260	<4.5
Feb-16	<4.0	<1.9	<0.6	3.7	<2.1	126	<2.1	<0.015	<10	9.17	15.1	1.3	<4.5
Feb-17	<2.2	110	<0.54	3.7	<0.72	120	<4.7	<0.028	<2.8	7.75	19.2	3.6	<2.2

Notes:
Data is presented in units of µg/L unless otherwise noted
ND = Non-detect
NS = Not sampled
J = Indicates value is between the method detection limit and practical quantitation limit and is an estimated concentration
Value following "<" represents the method detection limit

Historical Water Quality Data for MW098TR

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Jul-95	ND	176	ND	2.27	ND	278	ND	ND	ND	7.85	23.2	1.8	ND
Oct-95	ND	224	ND	219	ND	193	ND	ND	ND	8.76	20	2.3	ND
Jan-96	ND	167	ND	2.64	ND	141	ND	ND	ND	7.63	18.1	2.19	ND
Apr-96	ND	229	ND	2.59	ND	424	ND	ND	ND	7.37	18.9	4.64	ND
Jul-96	ND	241	ND	2.06	ND	312	ND	ND	ND	7.67	19.4	1.41	ND
Oct-96	ND	256	ND	2.51	ND	344	ND	ND	ND	7.57	19.3	4.77	ND
Jan-97	ND	276	ND	2.62	ND	348	ND	ND	ND	7.1	18.3	3.2	ND
Apr-97	ND	235	ND	2.63	ND	326	ND	ND	ND	7.32	19.9	ND	ND
Jul-97	ND	254	ND	2.62	ND	335	ND	ND	ND	7.5	19.8	1.94	ND
Oct-97	ND	265	ND	2.85	ND	315	ND	ND	ND	7	19.4	1.56	ND
Jan-98	ND	261	ND	2.19	ND	328	ND	ND	ND	7.06	18.5	1.4	ND
Apr-98	ND	270	ND	2.48	ND	335	ND	ND	ND	7.18	18.7	1.85	ND
Jul-98	ND	251	ND	2.59	ND	330	ND	ND	ND	7.49	21.5	1.37	ND
Oct-98	ND	242	ND	2.41	ND	316	ND	ND	ND	6.98	19	1.35	ND
Jan-99	ND	265	ND	2.22	ND	241	ND	ND	ND	7.34	18.5	ND	ND
Apr-99	ND	260	ND	2.6	ND	330	ND	ND	ND	6.8	19	0.9	ND
Jul-99	ND	280	ND	2.16	ND	426	ND	ND	ND	7.46	20.1	ND	ND
Oct-99	ND	266	ND	2.27	ND	314	ND	ND	ND	8.07	19.2	ND	ND
Jan-00	ND	285	ND	2.27	ND	272	ND	ND	ND	7.53	18.4	0.88	ND
Apr-00	ND	299	ND	2.25	ND	333	ND	ND	ND	7.34	18.9	0.25	ND
Jul-00	ND	249	ND	2.09	ND	336	ND	ND	ND	7.5	21	0.31	ND
Oct-00	ND	369	ND	2.03	ND	369	ND	ND	ND	8.05	19.1	0.57	ND
Jan-01	ND	306	ND	2.2	ND	381	ND	ND	ND	7.66	18.2	0.38	ND
Apr-01	ND	280	ND	ND	ND	320	ND	ND	ND	7.98	17.9	0.7	ND
Jul-01	ND	263	ND	2.2	ND	329	ND	ND	ND	7.74	20.3	0.72	ND
Oct-01	ND	281	ND	ND	ND	307	ND	ND	ND	7.53	16.8	0.48	ND
Jan-02	ND	266	ND	2.19	ND	328	ND	ND	ND	8	17.8	0.22	ND
Apr-02	ND	281	ND	2.18	ND	335	ND	ND	ND	7.65	21	0.53	ND
Jul-02	ND	293	ND	2.07	ND	347	ND	ND	ND	7.35	20.6	0.49	ND
Oct-02	ND	262	ND	2.28	ND	305	ND	ND	ND	7.9	19.4	0.81	ND
Jan-03	ND	281	ND	2.21	ND	311	ND	ND	ND	7.62	17.7	0.95	ND
Apr-03	ND	258	ND	2.27	ND	310	ND	ND	ND	7.79	18.9	0.56	ND
Jul-03	ND	266	ND	2.37	ND	316	ND	ND	ND	7.2	20	2.11	ND
Oct-03	ND	262	ND	2.3	ND	300	ND	ND	ND	7.72	18.3	0.87	ND
Jan-04	ND	287	ND	2.35	ND	308	ND	ND	ND	7.8	17.2	0.7	ND
Jan-05	ND	281	ND	2.43	ND	341	ND	ND	ND	8	18.7	1.43	ND
Jan-06	ND	293	ND	2.18	ND	274	ND	ND	ND	8	19	0.39	ND
Feb-07	<1.5	284	<1.0	2.23	3.43 J	230	<2.5	<0.06	8.48 J	8.3	18.1	2.07	10.6 J
Feb-08	<1.5	293	<1.0	2.23	2.61 J	236	<2.5	<0.03	<1.0	7.7	16.5	7.09	8.77 J
Feb-09	<1.5	183	<1.0	2.21	2.83 J	263	<2.5	<0.067	<1.0	7.8	16.3	9.36	9.51 J
Feb-10	<1.6	313	<1.0	2.17	2 J	277	<3.3	<0.066	3.08 J	7.7	16.7	1.98	3.48 J
Feb-11	<1.7	294	<1.0	2.52	3.53 J	347	<3.3	<0.066	2.06 J	8	19.1	6.77	4.33 J
Mar-12	<4.0	330	<0.6	2.7	<2.1	308	<1.9	<0.053	<10	8.01	19.2	1.2	<4.5
Feb-13	<4.0	310	<0.6	2.6	<2.1	359	<1.9	<0.015	<10	7.46	19.5	3.7	<4.5

Historical Water Quality Data for MW098TR

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Feb-14	<4.0	**300**	<0.6	**2.7**	<2.1	**315**	<1.9	<0.015	<10	**7.57**	**15.5**	**1.9**	<4.5
Feb-15	<4.0	**300**	<0.6	**2.9**	<2.1	**256**	<2.1	<0.015	<10	**7.6**	**16.3**	**260**	<4.5
Feb-16	<4.0	**310**	<0.6	**2.7**	<2.1	**330**	<2.1	<0.015	<10	**7.83**	**13.5**	ND	<4.5
Feb-17	<2.2	**260**	<0.54	**3.4**	<0.72	**170**	<4.7	<0.028	<2.8	**7.33**	**20.2**	4.3	<2.2

Notes:
Data is presented in units of µg/L unless otherwise noted
ND = Non-detect
J = Indicates value is between the method detection limit and practical quantitation limit and is an estimated concentration
Value following "<" represents the method detection limit

Historical Water Quality Data for MW101T

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Oct-95	ND	200	ND	2.35	ND	165	ND	ND	ND	6.96	18.8	1.23	ND
Jan-96	ND	160	ND	2.38	ND	210	ND	ND	ND	7.49	18	5.69	ND
Apr-96	ND	138	ND	2.34	ND	239	ND	ND	ND	6.98	18	8.01	ND
Jul-96	ND	155	ND	ND	ND	218	ND	ND	ND	7.35	20.5	1.65	ND
Oct-96	ND	128	ND	2.34	ND	230	ND	ND	ND	7.07	19	6.07	ND
Jan-97	ND	178	ND	ND	ND	235	ND	ND	ND	6.21	18.5	8.5	ND
Apr-97	ND	152	ND	2.43	ND	224	ND	ND	ND	6.77	19.8	9.48	ND
Jul-97	ND	151	ND	2.58	ND	199	ND	ND	ND	6.71	20.5	4.78	ND
Oct-97	ND	254	ND	ND	ND	197	ND	ND	ND	6.25	19.5	6.36	ND
Jan-98	ND	145	ND	2.1	ND	226	ND	ND	ND	6.72	18.8	4.71	ND
Apr-98	ND	140	ND	ND	ND	221	ND	ND	ND	6.26	19.8	3.02	ND
Jul-98	ND	136	ND	ND	ND	221	ND	ND	ND	7.11	20.8	5.72	ND
Oct-98	ND	119	ND	2.05	ND	258	ND	ND	ND	7.16	19.7	8.92	ND
Jan-99	ND	155	ND	2.06	ND	183	ND	ND	ND	6.15	18.8	5.74	ND
Apr-99	ND	120	ND	2.6	ND	240	ND	ND	ND	6.6	19	2.4	ND
Jul-99	ND	122	ND	1.97	ND	314	ND	ND	ND	6.51	19.8	3.65	29.2
Oct-99	ND	134	ND	2.06	ND	251	ND	ND	ND	6.68	19.2	7.9	ND
Jan-00	ND	129	ND	2.03	ND	201	ND	ND	ND	6.47	19.4	2.58	ND
Apr-00	ND	118	ND	2.15	ND	246	ND	ND	ND	6.33	19.1	9.15	ND
Jul-00	ND	113	ND	2.03	ND	255	ND	ND	ND	6.36	21	7.62	ND
Oct-00	ND	ND	ND	2.13	ND	293	ND	ND	ND	6.69	19	1.16	ND
Jan-01	ND	ND	ND	ND	ND	253	ND	ND	ND	6.25	18.3	2.92	ND
Apr-01	ND	106	ND	ND	ND	239	ND	ND	ND	6.7	17.9	3.82	ND
Jul-01	ND	100	ND	2.09	ND	257	ND	ND	ND	6.63	20	9.72	ND
Oct-01	ND	ND	ND	ND	ND	246	ND	ND	ND	6.45	17.9	2.78	ND
Jan-02	ND	119	ND	2.13	ND	264	ND	ND	ND	6.58	17.8	1.89	ND
Apr-02	ND	ND	ND	2.07	ND	257	ND	ND	ND	6.49	20.6	5.63	ND
Jul-02	ND	ND	ND	ND	ND	260	ND	ND	ND	6.21	21.1	10.2	ND
Oct-02	ND	ND	ND	2.19	ND	266	ND	ND	ND	6.54	20.7	2.65	ND
Jan-03	ND	ND	ND	2.1	ND	264	ND	ND	ND	6.36	17.8	3.28	ND
Apr-03	ND	ND	ND	2.15	ND	255	ND	ND	ND	6.74	19	8.29	ND
Jul-03	ND	ND	ND	2.2	ND	241	ND	ND	ND	6.46	21.2	9.3	ND
Oct-03	ND	ND	ND	2.34	ND	227	ND	ND	ND	6.6	19.3	17.33	ND
Jan-04	ND	ND	ND	2.18	ND	215	ND	ND	ND	6.8	16.9	13.3	ND
Apr-04	ND	ND	ND	2.09	ND	250	ND	ND	ND	6.5	18.9	6.56	ND
Jul-04	ND	ND	ND	2.13	ND	258	ND	ND	ND	6.8	20.9	6.91	ND
Oct-04	ND	ND	ND	2.07	ND	223	ND	ND	ND	6.6	19	6.9	ND
Jan-05	ND	ND	ND	2.27	ND	218	ND	ND	ND	6.7	17.8	11.37	ND
Apr-05	ND	ND	ND	2.04	ND	227	ND	ND	ND	6.7	20.3	6.31	ND
Jul-05	ND	ND	ND	ND	ND	233	ND	ND	ND	6.5	20.7	5.29	ND
Oct-05	ND	157	ND	2.07	ND	224	ND	ND	ND	6.7	19.3	18.1	ND
Jan-06	ND	127	ND	2.12	ND	214	ND	ND	ND	6.8	19.4	4.52	ND
May-06	ND	ND	ND	2.08	ND	237	ND	ND	ND	6.6	21	9.51	ND
Aug-06	<1.5	144	<1.0	2.13	1.2 J	267	3.4 J	0.265	<1.0	6.6	24.1	8.97	7.14 J

Historical Water Quality Data for MW101T

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Nov-06	<1.5	52.6 J	<1.0	2.19	<1.0	177	<2.5	<0.06	<1.0	6.8	19.7	2.65	7.37 J
Feb-07	<1.5	154	<1.0	2.16	2.62 J	201	<2.5	<0.06	1.46 J	6.8	16.2	15.9	9.18 J
May-07	<1.5	59.4 J	<1.0	2.1	<1.0	211	2.59 J	<0.06	<1.0	6.7	21.3	2.19	<2.0
Aug-07	<1.5	63.7 J	<1.0	2.1	<1.0	203	<2.5	<0.03	<1.0	6.6	21.4	6.08	5.1 J
Nov-07	2.45 J	67.1 J	<1.0	2.08	3.42 J	207	<2.5	<0.03	1.12 J	6.7	21.1	10.7	6.25 J
Feb-08	<1.5	45.4 J	<1.0	2.39	<2.0	161	<2.5	<0.03	<1.0	6.4	16.7	5.71	5.53 J
May-08	<1.5	42.4 J	<1.0	2.14	<2.0	200	<2.5	<0.03	<1.0	6.5	18.3	6.71	2.38 J
Aug-08	<1.5	54 J	<1.0	2.07	<2.0	228	<2.5	<0.03	<1.0	6.8	22.6	14.6	3.92 J
Nov-08	<1.5	58.5 J	<1.0	2.05	<2.0	209	<2.5	<0.067	<1.0	6.8	20.3	5.75	5.53 J
Feb-09	<1.5	83.3 J	<1.0	2.12	3.14 J	133	<2.5	<0.067	<1.0	6.4	7.5	9.06	8.84 J
May-09	<1.5	40.8 J	<1.0	2.11	<2.0	194	<2.5	<0.067	<1.0	6.4	20.8	9.42	2.58 J
Jul-09	<1.6	48.2 J	<1.0	1.98 J	<1.0	230	<3.3	<0.066	<1.5	6.6	26.6	4.82	6.44 J
Oct-09	<1.6	51.7 J	<1.0	1.95	<1.0	196	<3.3	<0.066	<1.5	6.5	19.4	4.14	6.01 J
Feb-10	<1.6	56.3 J	<1.0	1.94 J	<1.0	144	<3.3	<0.066	<1.5	6.7	10.4	5.06	<3.3
May-10	<1.6	51.5 J	<1.0	1.97 J	<1.0	183	<3.3	<0.066	<1.5	6	19.9	8.32	6.5 J
Aug-10	<1.6	45.5 J	<1.0	2.06	<1.0	192	<3.3	<0.066	<1.5	6.6	21.4	12.5	4.67 J
Nov-10	<1.6	45.6 J	<1.0	2.07	<1.0	203	<3.3	<0.066	<1.5	6.4	22.1	11.9	<3.3
Feb-11	<1.7	38.8 J	<1.0	2.09	<1.0	201	<3.3	<0.066	<1.5	6.6	19.4	7.32	<3.3
May-11	<1.7	43.2 J	<1.0	2.05	<1.0	194	<3.3	<0.066	<1.5	6.5	21	8.98	<3.3
Aug-11	<1.7	47.2 J	<1.0	2.04	<1.0	204	<3.3	<0.066	<1.5	6.6	21.4	17.2	<3.3
Nov-11	<1.7	48 J	<1.0	2.03	<1.0	182	<3.3	<0.066	<1.5	6.6	21.2	12.7	<3.3
Mar-12	<4.0	<7.5	<0.6	2.2	<2.1	173	<1.9	<0.053	<10	6.72	17.9	9.2	<4.5
May-12	<4.0	<7.5	<0.6	2.1	<2.1	213	<1.9	<0.053	<10	6.52	23.7	11	<4.5
Aug-12	<4.0	<7.5	<0.6	2.2	<2.1	224	<1.9	<0.053	<10	6.49	24.3	9.6	<4.5
Nov-12	<4.0	<7.5	<0.6	<0.11	<2.1	161	<1.9	<0.053	<10	6.79	14.1	4.3	<4.5
Feb-13	<4.0	<7.5	<0.6	2.1	<2.1	194	<1.9	<0.015	<10	6.43	12.7	7.4	<4.5
May-13	<4.0	<7.5	<0.6	2.2	<2.1	155	<1.9	<0.015	<10	6.96	21.3	1.8	<4.5
Aug-13	<4.0	<7.5	<0.6	2	<2.1	179	<1.9	<0.015	<10	6.6	23.2	4.7	<4.5
Nov-13	<4.0	<7.5	<0.6	2.3	<2.1	167	<1.9	<0.015	<10	6.51	16.6	6.7	<4.5
Feb-14	<4.0	<7.5	<0.6	2.2	<2.1	165	<1.9	<0.015	<10	6.74	17.4	6.5	<4.5
Apr-14	<4.0	<7.5	<0.6	2.2	<2.1	169	<1.9	<0.015	<10	6.89	20.1	1.5	<4.5
Jul-14	<4.0	<7.5	<0.6	2.2	<2.1	209	<1.9	<0.015	<10	5.97	24.7	4.1	<4.5
Oct-14	<4.0	<7.5	<0.6	2.1	<2.1	199	<1.9	<0.015	<10	6.51	23.4	7.6	<4.5
Feb-15	<4.0	<7.5	<0.6	2.2	<2.1	143	<2.1	<0.015	<10	6.01	15.1	--	<4.5
May-15	<2.2	<1.9	<0.54	2.3	<0.72	173	<4.7	<0.028	<2.8	6.35	19.3	1.4	<2.2
Aug-15	<2.2	<1.9	<0.54	2.1	<0.72	236	<4.7	<0.028	<2.8	6.55	31	4.7	<2.2
Nov-15	<2.2	110	<0.54	2.2	<0.72	204	<4.7	<0.028	<2.8	6.74	20.2	7	<2.2
Feb-16	<2.2	<1.9	<0.54	<0.033	<0.72	194	<4.7	<0.028	<2.8	6.89	16.5	7.2	<2.2
May-16	<2.2	<1.9	<0.54	2.3	<0.72	167	<4.7	<0.028	<2.8	6.57	21.7	10	<2.2
Aug-16	<2.2	<1.9	<0.54	2.2	<0.72	140	<4.7	<0.028	<2.8	6.27	23.8	1.6	<2.2
Oct-16	<2.2	<1.9	<0.54	2	<0.72	130	<4.7	<0.028	<2.8	6.34	25.8	5.3	<2.2
Feb-17	<2.2	<1.9	<0.54	2.2	<0.72	130	<4.7	<0.028	<2.8	6.07	21.5	7.6	<2.2
Apr-17	<2.5	52	<0.6	2.2	<1.3	140	<4.7	<0.028	<5	6.67	26	3.7	<2.5
Jul-17	<2.5	50	<0.6	2	<1.3	100	<4.7	<0.091	<5	6.87	21.1	2.6	<2.5

Notes:
Data is presented in units of µg/L unless otherwise noted
ND = Non-detect
J = Indicates value is between the method detection limit and practical quantitation limit and is an estimated concentration
Value following "<" represents the method detection limit

Historical Water Quality Data for MW114T

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Jul-97	ND	126	ND	2.85	ND	203	ND	ND	ND	6.5	20	7.98	32
Oct-97	ND	145	ND	2.89	ND	175	ND	ND	ND	6.18	19	11.4	25.5
Jan-98	ND	157	ND	2.2	ND	199	ND	ND	ND	6	18.5	6.9	ND
Apr-98	ND	144	ND	2.5	ND	212	ND	ND	ND	6.11	18.6	7.25	8.8
Jul-98	ND	139	ND	2.59	ND	192	ND	ND	ND	7.16	20.4	2.07	ND
Oct-98	ND	160	ND	2.28	ND	190	ND	ND	ND	6.06	19.2	2.75	ND
Jan-99	ND	148	ND	2.27	ND	148	ND	ND	ND	6.58	19	2.25	ND
Apr-99	ND	160	ND	2.8	ND	230	ND	ND	ND	6.8	19	2.2	29
Jul-99	ND	167	ND	2.27	ND	269	ND	ND	ND	6.65	19.6	2.2	ND
Oct-99	ND	191	ND	2.25	ND	270	ND	ND	ND	7.04	19	2.05	27.8
Jan-00	ND	156	ND	2.19	ND	165	ND	ND	ND	6.86	18.4	12.25	ND
Apr-00	ND	172	ND	2.38	ND	205	ND	ND	ND	6.28	19.3	18.5	ND
Jul-00	ND	169	ND	2.27	ND	254	ND	ND	ND	6.54	21	17.15	ND
Oct-00	ND	170	ND	2.16	ND	298	ND	ND	ND	7.07	19	12.65	ND
Jan-01	ND	163	ND	2.05	ND	246	ND	ND	ND	6.39	18.6	10.79	ND
Apr-01	ND	152	ND	ND	ND	242	ND	ND	ND	6.77	17.8	12.66	ND
Jul-01	ND	155	ND	2.24	ND	232	ND	ND	ND	6.5	20	47.7	ND
Oct-01	ND	133	ND	2.16	ND	213	ND	ND	ND	8.25	18.6	8.25	ND
Jan-02	ND	141	ND	2.28	ND	275	ND	ND	ND	7.01	17.8	15.6	ND
Apr-02	ND	138	ND	2.18	ND	249	ND	ND	ND	7.07	20.6	7.58	ND
Jul-02	ND	132	ND	2.08	ND	241	ND	ND	ND	6.43	20.8	5.31	ND
Oct-02	ND	140	ND	2.31	ND	232	ND	ND	ND	7.06	20	4.23	ND
Jan-03	ND	127	ND	2.24	ND	217	ND	ND	ND	6.87	17.8	13.9	ND
Apr-03	ND	ND	ND	2.29	ND	201	ND	ND	ND	7.19	20	6.89	ND
Jul-03	ND	124	ND	2.35	ND	230	ND	ND	ND	6.86	21.9	2.86	ND
Oct-03	ND	153	ND	2.28	ND	222	ND	ND	ND	7	18.8	2.98	ND
Jan-04	ND	133	ND	2.35	ND	220	ND	ND	ND	6.8	16.9	18.1	ND
Apr-04	ND	146	ND	2.23	ND	249	ND	ND	ND	6.6	19.2	7.41	ND
Jul-04	ND	145	ND	2.28	ND	262	ND	ND	ND	6.7	19.7	8.4	ND
Oct-04	ND	150	ND	2.19	ND	209	ND	ND	ND	6.6	18.6	5.71	ND
Jan-05	ND	174	ND	2.16	ND	234	ND	ND	ND	6.8	15.8	26.1	ND
Apr-05	ND	149	ND	2.13	ND	218	ND	ND	ND	6.8	19.7	5.54	ND
Jul-05	ND	144	ND	2.06	ND	220	ND	ND	ND	6.7	22.8	3.15	ND
Oct-05	ND	138	ND	2.21	ND	204	ND	ND	ND	6.7	19.3	11.4	ND
Jan-06	ND	156	ND	2.15	ND	195	ND	ND	ND	6.9	18.7	3.16	ND
May-06	ND	161	ND	2.14	ND	213	ND	ND	ND	6.5	21.8	11.03	ND
Aug-06	<1.5	141	<1.0	2.18	2.2 J	222	3.88 J	1.67 J	3.75 J	6.7	23.1	16.6	13.2 J
Nov-06	<1.5	145	<1.0	2.2	1.75 J	159	<2.5	<0.06	<1.0	6.9	20	5.51	8.54 J
Feb-07	<1.5	146	<1.0	2.08	2.96 J	183	<2.5	<0.06	2.52 J	6.9	16	31.8	15.7 J
May-07	<1.5	155	<1.0	2.18	1.9 J	187	<2.5	<0.06	2.5 J	6.4	17.9	32.5	4.21 J
Aug-07	<1.5	177	<1.0	2.08	<1.0	197	<2.5	<0.03	8.04 J	6.7	21.6	12.8	12.3 J
Nov-07	2.44 J	156	<1.0	2.1	23.1	186	<2.5	<0.03	5.2 J	6.9	19.8	11.6	12.2 J
Feb-08	<1.5	160	<1.0	2.18	7.66 J	150	<2.5	<0.03	1.12 J	6.6	16.5	17.6	12.1 J
May-08	<1.5	150	<1.0	2.25	5.93 J	155	<2.5	<0.03	10.9 J	6.5	16.8	18.6	13.1 J

Historical Water Quality Data for MW114T

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Aug-08	<1.5	133	<1.0	2.22	4.18 J	186	<2.5	<0.03	6.69 J	7.1	23.6	17.9	10.7 J
Nov-08	<1.5	128	<1.0	2.19	4.17 J	183	<2.5	<0.067	4.41 J	7.1	20.6	8.69	10.7 J
Feb-09	<1.5	86.1 J	<1.0	2.27	3.5 J	105	<2.5	<0.067	1.84 J	6.7	4	7.34	8.52 J
May-09	<1.5	131	<1.0	2.33	<2.0	180	<2.5	<0.067	7.35 J	6.4	20.6	9.81	17.2 J
Jul-09	<1.6	124	<1.0	2.21	<1.0	197	<3.3	<0.066	4.15 J	6.7	24.5	5.53	19.4 J
Oct-09	<1.6	126	<1.0	2.2	<1.0	176	<3.3	<0.066	<1.5	6.7	19.5	4.45	15.9 J
Feb-10	<1.6	128	<1.0	2.21	2.05 J	115	<3.3	<0.066	<1.5	6.9	5.8	5.33	8.2 J
May-10	<1.6	129	<1.0	2.17	1.86 J	170	<3.3	<0.066	<1.5	6.4	19.8	7.21	10.5 J
Aug-10	<1.6	121	<1.0	2.31	1.01 J	188	<3.3	<0.066	<1.5	6.9	23.1	13.1	9.94 J
Nov-10	<1.6	114	<1.0	2.33	1.22 J	188	<3.3	<0.066	<1.5	6.6	22.2	11.2	6.53 J
Feb-11	<1.7	127	<1.0	2.43	2.74 J	183	<3.3	<0.066	2 J	6.9	19.6	7.21	6.7 J
May-11	<1.7	133	<1.0	2.25	2.03 J	177	<3.3	<0.066	2.71 J	6.9	21.6	8.66	6.65 J
Aug-11	<1.7	130	<1.0	2.35	<1.0	186	<3.3	<0.066	<1.5	6.9	21.6	10.3	<3.3
Nov-11	<1.7	133	<1.0	2.43	2.1 J	174	<3.3	<0.066	<1.5	6.9	21.2	11.9	4.66 J
Mar-12	<4.0	130	<0.6	2.6	<2.1	153	<1.9	<0.053	<10	6.94	19.5	1.7	<4.5
May-12	<4.0	110	<0.6	2.5	<2.1	192	<1.9	<0.053	<10	6.67	23.7	9.5	<4.5
Aug-12	<4.0	120	<0.6	2.5	<2.1	217	<1.9	<0.053	<10	6.57	26.8	3.9	<4.5
Nov-12	<4.0	120	<0.6	2.3	<2.1	141	<1.9	<0.053	<10	6.79	12.7	6.1	<4.5
Feb-13	<4.0	120	<0.6	2.5	<2.1	206	<1.9	<0.015	<10	6.59	19.5	2.9	<4.5
May-13	<4.0	110	<0.6	2.5	<2.1	185	<1.9	<0.015	<10	7.01	22.2	3	<4.5
Aug-13	<4.0	120	<0.6	2.4	<2.1	216	<1.9	<0.015	<10	6.47	22.8	2.4	<4.5
Nov-13	<4.0	140	<0.6	2.8	<2.1	171	<1.9	<0.015	<10	6.62	17.4	5.3	<4.5
Feb-14	<4.0	120	<0.6	2.4	<2.1	154	<1.9	<0.015	<10	6.9	17.3	4.9	<4.5
Apr-14	<4.0	130	<0.6	2.5	<2.1	164	<1.9	<0.015	<10	6.68	20.7	1.4	<4.5
Jul-14	<4.0	110	<0.6	2.6	<2.1	180	<1.9	<0.015	<10	6.1	24	5.2	<4.5
Oct-14	<4.0	130	<0.6	2.5	<2.1	168	<1.9	<0.015	<10	6.57	21.7	7.9	<4.5
Jan-15	<4.0	120	<0.6	2.5	<2.1	142	<2.1	<0.015	<10	6.88	14.2	8	<4.5
Apr-15	<2.2	110	<0.54	3	<0.72	185	<4.7	<0.028	<2.8	6.53	23.4	8.1	<2.2
Aug-15	<2.2	110	<0.54	2.5	<0.72	150	<4.7	<0.028	<2.8	7.02	30	3.6	<2.2
Nov-15	<2.2	110	<0.54	2.5	<0.72	189	<4.7	<0.028	<2.8	7.02	20.8	6.7	<2.2
Feb-16	<2.2	110	<0.54	2.3	<0.72	186	<4.7	<0.028	<2.8	6.71	15.3	14	<2.2
May-16	<2.2	110	<0.54	2.6	<0.72	154	<4.7	<0.028	<2.8	6.48	21.5	2	<2.2
Aug-16	<2.2	110	<0.54	2.5	<0.72	140	<4.7	<0.028	<2.8	6.25	25.7	2	<2.2
Oct-16	<2.2	120	<0.54	2.4	<0.72	130	<4.7	<0.028	<2.8	6.27	26.6	6.6	<2.2
Feb-17	<2.2	110	<0.54	2.5	<0.72	120	<4.7	<0.028	<2.8	6.03	21.7	5	<2.2
May-17	<2.5	110	<0.6	2.5	<1.3	184	<4.7	<0.028	<5	6.12	21.4	3.5	<2.5
Jul-17	<2.5	110	<0.6	2.4	<1.3	120	<4.7	<0.091	<5	6.72	23	7.4	<2.5

Notes:
Data is presented in units of µg/L unless otherwise noted
ND = Non-detect
J = Indicates value is between the method detection limit and practical quantitation limit and is an estimated concentration
Value following "<" represents the method detection limit

Historical Water Quality Data for MW115T

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Jan-97	ND	108	ND	2.61	ND	143	ND	ND	ND	6.61	17.8	9.42	ND
Apr-97	ND	115	ND	2.78	ND	151	ND	0.33	ND	6.41	19.1	2.91	ND
Jul-97	ND	102	ND	2.64	ND	149	ND	ND	ND	6.52	19.7	2.62	ND
Oct-97	ND	113	ND	3.11	ND	140	ND	ND	ND	6.1	18.7	2.07	28.5
Jan-98	ND	108	ND	2.4	ND	151	ND	ND	ND	5.9	18	2.56	ND
Apr-98	ND	112	ND	2.47	ND	149	ND	ND	ND	6.65	18.5	2.46	ND
Jul-98	ND	104	ND	2.84	ND	163	ND	ND	ND	6.92	20.7	3.5	ND
Oct-98	ND	112	ND	2.41	ND	156	ND	ND	ND	5.89	18.9	2.4	ND
Jan-99	ND	110	ND	2.39	ND	165	ND	ND	ND	6.4	19.1	2.6	ND
Apr-99	ND	110	ND	2.9	ND	160	ND	ND	ND	6.3	19	3.3	ND
Jul-99	ND	116	ND	2.36	ND	208	ND	ND	ND	6.23	19.7	3.45	ND
Oct-99	ND	129	ND	2.52	ND	196	ND	ND	ND	7.04	119	10.3	ND
Jan-00	ND	127	ND	2.4	ND	127	ND	ND	ND	6.8	18.4	3.17	ND
Apr-00	ND	117	ND	2.45	ND	161	ND	ND	ND	6.31	19	2.83	ND
Jul-00	ND	103	ND	2.32	ND	162	ND	ND	ND	6.79	19.9	5.42	ND
Oct-00	ND	110	ND	2.41	ND	189	ND	ND	ND	6.98	19	2.27	ND
Jan-01	ND	114	ND	2.27	ND	202	ND	ND	ND	6.88	18.8	2.86	ND
Apr-01	ND	108	ND	2.44	ND	155	ND	ND	ND	6.74	18.4	2.06	ND
Jul-01	ND	106	ND	2.44	ND	149	ND	ND	ND	6.89	20	2.19	ND
Oct-01	ND	125	ND	2.02	ND	158	ND	ND	ND	6.78	17.8	5.03	ND
Jan-02	ND	105	ND	2.23	ND	164	ND	ND	ND	6.81	17.8	2.73	ND
Apr-02	ND	130	ND	2.5	ND	137	ND	ND	ND	7.16	20	10.47	ND
Jul-02	ND	110	ND	2.21	ND	154	ND	ND	ND	6.64	21.7	3.12	ND
Oct-02	ND	112	ND	2.43	ND	164	ND	ND	ND	6.73	20.2	12.3	ND
Jan-03	ND	104	ND	2.38	ND	165	ND	ND	ND	6.61	18	2.46	ND
Apr-03	ND	108	ND	2.41	ND	174	ND	ND	ND	6.83	20.3	2.2	ND
Jul-03	ND	101	ND	2.37	ND	158	ND	ND	ND	6.65	23.6	1.84	ND
Oct-03	ND	108	ND	2.48	ND	159	ND	ND	ND	7.22	20.3	10.63	ND
Jan-04	ND	113	ND	2.48	ND	169	ND	ND	ND	7.2	18.2	10.81	ND
Apr-04	ND	110	ND	2.32	ND	158	ND	ND	ND	6.9	19	4.5	ND
Jul-04	ND	116	ND	2.42	ND	163	ND	ND	ND	7.4	20.3	4.33	ND
Oct-04	ND	110	ND	2.35	ND	163	ND	ND	ND	6.7	19.8	3.11	ND
Jan-05	ND	118	ND	2.29	ND	163.1	ND	ND	ND	6.9	12.9	14.71	ND
Apr-05	ND	114	ND	2.23	ND	171	ND	ND	ND	6.7	19.7	6.11	ND
Jul-05	ND	120	ND	2.3	ND	162	ND	ND	ND	6.5	22	3.3	ND
Oct-05	ND	117	ND	2.29	ND	160	ND	ND	ND	6.9	20.1	5.84	ND
Jan-06	ND	128	ND	2.25	ND	160	ND	ND	ND	7.1	18.6	6.53	ND
May-06	ND	123	ND	2.21	ND	155	ND	ND	ND	6.7	20.3	9.5	ND
Aug-06	<1.5	115	<1.0	2.27	1.09 J	194	4.83 J	<0.06	<1.0	7	22.9	5.25	5.71 J
Nov-06	<1.5	120	<1.0	2.25	1.43 J	134	<2.5	<0.06	<1.0	7	21	6.78	6.8 J
Feb-07	<1.5	126	<1.0	2.23	1.53 J	142	<2.5	<0.06	<1.0	7.3	14.6	7.64	8.36 J
May-07	<1.5	128	<1.0	2.2	<1.0	164	<2.5	<0.06	<1.0	6.8	21	5.31	2.3 J
Aug-07	<1.5	132	<1.0	2.13	<1.0	150	<2.5	<0.03	<1.0	6.9	22.6	6.4	<2.0
Nov-07	2.85 J	118	<1.0	2.27	<1.0	158	<2.5	<0.03	<1.0	6.7	22	7.56	4.72 J

Historical Water Quality Data for MW115T

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Feb-08	<1.5	123	<1.0	2.21	<2.0	135	<2.5	<0.03	<1.0	6.8	18.8	3.41	6.41 J
Apr-08	<1.5	126	<1.0	2.18	<2.0	152	2.6 J	<0.03	<1.0	7	19.2	21.2	4.65 J
Aug-08	<1.5	132	<1.0	2.26	<2.0	183	<2.5	<0.03	<1.0	6.8	23	19.4	4.16 J
Nov-08	<1.5	138	<1.0	2.26	<2.0	181	<2.5	<0.067	<1.0	7	21.8	11.6	5.43 J
Feb-09	<1.5	133	<1.0	2.35	<2.0	131	3.1 J	<0.067	<1.0	6.5	16.2	11.8	6.7 J
May-09	<1.5	137	<1.0	2.53	<2.0	160	<2.5	<0.067	<1.0	6.6	20.6	10.6	2.25 J
Jul-09	<1.6	128	<1.0	2.39	1.01 J	184	<3.3	<0.066	<1.5	6.7	24.1	3.71	6.62 J
Oct-09	<1.6	131	<1.0	2.42	<1.0	174	<3.3	<0.066	<1.5	6.9	21.2	9	6.69 J
Feb-10	<1.6	134	<1.0	2.54	<1.0	133	<3.3	<0.066	<1.5	6.8	12.6	10.9	<3.3
May-10	<1.6	133	<1.0	2.63	1.03 J	175	<3.3	<0.066	<1.5	6.4	20.5	8.37	3.67 J
Aug-10	<1.6	133	<1.0	2.94	1.07 J	184	<3.3	<0.066	<1.5	6.8	24.2	13.4	5.59 J
Nov-10	<1.6	135	<1.0	2.91	<1.0	157	<3.3	<0.066	<1.5	6.7	20	10.4	<3.3
Feb-11	<1.7	126	<1.0	2.99	1.1 J	148	<3.3	<0.066	<1.5	6.6	17.5	10.2	<3.3
May-11	<1.7	136	<1.0	3.38	<1.0	180	<3.3	<0.066	<1.5	6.8	21.2	9.78	3.63 J
Aug-11	<1.7	135	<1.0	3.27	<1.0	186	<3.3	<0.066	<1.5	6.8	22.9	11.1	<3.3
Nov-11	<1.7	132	<1.0	3.48	1.23 J	157	<3.3	<0.066	<1.5	6.7	20.2	13.3	<3.3
Mar-12	<4.0	130	<0.6	3.8	<2.1	143	<1.9	<0.053	<10	6.76	17	7.2	<4.5
May-12	<4.0	130	<0.6	3.8	<2.1	205	<1.9	<0.053	<10	6.88	25.4	10	<4.5
Aug-12	<4.0	130	<0.6	3.9	<2.1	187	<1.9	<0.053	<10	6.73	22.3	9.6	<4.5
Nov-12	<4.0	130	<0.6	3.7	<2.1	174	<1.9	<0.053	<10	6.81	18.7	12	<4.5
Feb-13	<4.0	130	<0.6	3.9	<2.1	202	<1.9	<0.015	<10	6.67	16.2	-	<4.5
May-13	<4.0	120	<0.6	4.2	<2.1	191	<1.9	<0.015	<10	7.05	22.4	2.2	<4.5
Aug-13	<4.0	130	<0.6	4	<2.1	194	<1.9	<0.015	<10	6.5	24.3	4.3	<4.5
Oct-13	<4.0	140	<0.6	4.5	<2.1	192	<1.9	<0.015	<10	6.58	23.8	9.1	<4.5
Feb-14	<4.0	130	<0.6	4.6	<2.1	149	<1.9	<0.015	<10	6.96	13.6	9.5	<4.5
Apr-14	<4.0	150	<0.6	4.5	<2.1	187	<1.9	<0.015	<10	6.82	22.3	3.2	<4.5
Jul-14	<4.0	120	<0.6	4.7	<2.1	197	<1.9	<0.015	<10	6.44	24.7	9.4	<4.5
Oct-14	<4.0	140	<0.6	4.5	<2.1	222	<1.9	<0.015	<10	6.64	22.8	5.4	<4.5
Feb-15	<4.0	140	<0.6	4.5	<2.1	157	<2.1	<0.015	<10	6.72	18.4	--	<4.5
Apr-15	<2.2	130	<0.54	4.7	<0.72	205	<4.7	<0.028	<2.8	6.69	22.7	6.1	<2.2
Aug-15	<2.2	130	<0.54	4.7	<0.72	222	<4.7	<0.028	<2.8	6.87	26.3	9.1	<2.2
Oct-15	<2.2	130	<0.54	5	<0.72	199	<4.7	<0.028	<2.8	6.42	23	7.2	<2.2
Feb-16	<2.2	150	<0.54	4.7	<0.72	211	<4.7	<0.028	<2.8	6.82	16	9.3	<2.2
May-16	<2.2	130	<0.54	5.2	<0.72	183	<4.7	<0.028	<2.8	6.65	21.5	8.9	<2.2
Aug-16	<2.2	130	<0.54	5.2	<0.72	170	<4.7	<0.028	<2.8	6.46	24.4	7.1	<2.2
Oct-16	<2.2	140	<0.54	4.9	<0.72	160	<4.7	<0.028	<2.8	6.16	24.4	5.2	<2.2
Feb-17	<2.2	140	<0.54	4.8	<0.72	130	<4.7	<0.028	<2.8	6.37	20.6	6	<2.2
Apr-17	<2.5	140	<0.6	4.8	<1.3	180	<4.7	<0.028	<5	7.03	20.4	5.8	<2.5
Jul-17	<2.5	150	<0.6	5.1	<1.3	130	<4.7	<0.091	<5	6.83	22	3.6	<2.5

Notes:
Data is presented in units of µg/L unless otherwise noted
ND = Non-detect
J = Indicates value is between the method detection limit and practical quantitation limit and is an estimated concentration
Value following "<" represents the method detection limit

Historical Water Quality Data for MW116T

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Jan-97	ND	120	ND	ND	ND	170	ND	ND	ND	6.41	18.2	ND	32.9
Apr-97	ND	104	ND	2.42	ND	170	ND	ND	ND	6.98	20.2	1.68	24.5
Jul-97	ND	103	ND	2.27	ND	176	ND	ND	ND	6.52	19.9	8.03	ND
Oct-97	ND	125	ND	2.71	ND	165	ND	ND	ND	6.8	19.4	ND	ND
Jan-98	ND	129	ND	ND	ND	161	ND	ND	ND	5.94	18.5	4.89	ND
Apr-98	ND	131	ND	2.08	ND	180	ND	ND	ND	6.4	18.5	3.01	ND
Jul-98	ND	124	ND	2.34	ND	190	ND	ND	ND	7.03	20.5	1.98	ND
Oct-98	ND	140	ND	2.06	ND	184	ND	ND	ND	5.97	19.2	5.58	ND
Jan-99	ND	139	ND	2.08	ND	149	ND	ND	ND	6.46	18.3	2.3	ND
Apr-99	ND	140	ND	2.6	ND	200	ND	ND	ND	6.4	20	5.4	ND
Jul-99	ND	133	ND	1.93	ND	246	ND	ND	ND	6.67	19.7	2.25	ND
Oct-99	ND	172	ND	2.11	ND	222	ND	ND	ND	6.85	19.2	5.08	25.8
Jan-00	ND	145	ND	2.07	ND	145	ND	ND	ND	6.73	18.5	4.17	ND
Apr-00	ND	149	ND	2.17	ND	179	ND	ND	ND	6.37	18.9	3.9	ND
Jul-00	ND	136	ND	2	ND	187	ND	ND	ND	6.45	21	4.15	ND
Oct-00	ND	143	ND	2.05	ND	211	ND	ND	ND	6.84	19.3	2.4	ND
Jan-01	ND	143	ND	2.15	ND	176	ND	ND	ND	6.38	18.2	4.15	ND
Apr-01	ND	144	ND	2.11	ND	164	ND	ND	ND	6.82	18.3	8.3	ND
Jul-01	ND	136	ND	2.04	ND	179	ND	ND	ND	7.26	20.6	6.5	ND
Oct-01	ND	148	ND	2.13	ND	177	ND	ND	ND	6.62	19.1	6.39	ND
Jan-02	ND	137	ND	2.13	ND	190	ND	ND	ND	6.83	18.4	4.95	ND
Apr-02	ND	146	ND	2.1	ND	199	ND	ND	ND	7.03	20.8	5.85	ND
Jul-02	ND	142	ND	ND	ND	202	ND	ND	ND	6.72	20.6	3.5	ND
Oct-02	ND	144	ND	2.23	ND	185	ND	ND	ND	6.69	20	4.88	ND
Jan-03	ND	149	ND	2.11	ND	184	ND	ND	ND	6.72	17.8	9.7	ND
Apr-03	ND	152	ND	2.18	ND	199	ND	ND	ND	7.1	19	5.5	ND
Jul-03	ND	148	ND	2.28	ND	188	ND	ND	ND	6.74	21.1	13.27	ND
Oct-03	ND	152	ND	2.27	ND	176	ND	ND	ND	6.81	20.2	10.14	ND
Jan-04	ND	153	ND	2.23	ND	180	ND	ND	ND	7	16.9	12	ND
Apr-04	ND	155	ND	2.18	ND	215	ND	ND	ND	6.7	19	5.6	ND
Jul-04	ND	147	ND	2.26	ND	212	ND	ND	ND	6.8	20.6	0.62	ND
Oct-04	ND	141	ND	2.15	ND	174	ND	ND	ND	6.7	18.9	5.58	ND
Jan-05	ND	150	ND	2.12	ND	170.6	ND	ND	ND	6.7	16.5	13.65	ND
Apr-05	ND	147	ND	2.08	ND	193	ND	ND	ND	6.7	19.4	18.2	ND
Jul-05	ND	154	ND	2.03	ND	175	ND	ND	ND	6.7	21.3	11	ND
Oct-05	ND	142	ND	2.14	ND	180	ND	ND	ND	6.6	18.6	4.29	ND
Jan-06	ND	163	ND	2.24	ND	177	ND	ND	ND	7.1	18.4	2.86	ND
May-06	ND	162	ND	2.11	ND	172	ND	ND	ND	7	20.8	8.6	ND
Aug-06	<1.5	177	<1.0	2.17	10.1 J	197	4.19J	<0.06	1.82 J	6.9	23.8	14.5	16.4 J
Nov-06	<1.5	143	<1.0	2.18	2.24 J	134	<2.5	<0.06	1.44 J	7	19.7	16.4	11 J
Feb-07	<1.5	170	<1.0	2.09	6.85 J	151	<2.5	<0.06	4.61 J	7	16	7.88	13.1 J
May-07	<1.5	157	<1.0	2.12	1.94 J	163	<2.5	<0.06	2.88 J	6.8	21	11.8	5.75 J
Aug-07	<1.5	155	<1.0	2.06	1.41 J	156	<2.5	<0.03	<1.0	6.8	22.4	8.55	6.7 J
Nov-07	2.92 J	158	<1.0	2.03	1.45 J	147.8	<2.5	<0.03	<1.0	7.2	19.4	5.05	6.19 J

Historical Water Quality Data for MW116T

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Feb-08	<1.5	149	<1.0	2.13	3.07 J	133	<2.5	<0.03	1.42 J	6.7	15.8	9.21	9.85 J
May-08	<1.5	158	<1.0	2.09	7.43 J	141	<2.5	<0.03	6.56 J	6.8	17.1	7.06	11.6 J
Aug-08	<1.5	153	<1.0	2.08	3.78 J	164	<2.5	<0.03	2 J	7	22.7	21.3	8.71 J
Nov-08	<1.5	154	<1.0	2.01	3.89 J	161	<2.5	<0.067	2.12 J	7.2	20.6	8.69	8.83 J
Feb-09	<1.5	143	<1.0	2	5.13 J	101	<2.5	<0.067	4.06 J	6.9	4	11.5	23.8 J
May-09	<1.5	160	<1.0	2.08	2.01 J	158	<2.5	<0.067	2 J	6.8	20.6	10.1	8.79 J
Jul-09	<1.6	145	<1.0	1.94 J	2.01 J	176	<3.3	<0.066	<1.5	6.8	26.9	2.93	10.6 J
Oct-09	<1.6	147	<1.0	1.88	2.35 J	150	<3.3	<0.066	<1.5	6.8	19.6	3.94	9.33 J
Feb-10	<1.6	141	<1.0	1.9 J	1.35 J	113	<3.3	<0.066	<1.5	6.9	8	5.61	<3.3
May-10	<1.6	144	<1.0	1.94 J	6.5 J	150	<3.3	<0.066	1.72 J	6.5	21.8	8.14	12.8 J
Aug-10	<1.6	129	<1.0	2.02	2.77 J	169	<3.3	<0.066	<1.5	7	23.3	9.27	10.5 J
Nov-10	<1.6	126	<1.0	2.06	3.04 J	158	<3.3	<0.066	1.85 J	6.5	21.2	13.8	5.1 J
Feb-11	<1.7	123	<1.0	2.07	3.55 J	167	<3.3	<0.066	2.04 J	6.9	20	7.71	6.56 J
May-11	<1.7	130	<1.0	1.99 J	<1.0	152	<3.3	<0.066	1.92 J	6.8	19.2	8.7	4.05 J
Aug-11	<1.7	112	<1.0	1.97 J	<1.0	174	<3.3	<0.066	1.51 J	6.9	23.4	12.6	3.86 J
Nov-11	<1.7	120	<1.0	1.95 J	<1.0	151	<3.3	<0.066	4.85 J	6.8	21.9	10.8	<3.3
Mar-12	<4.0	120	<0.6	2.2	<2.1	143	<1.9	<0.053	<10	7.23	19.7	4.9	<4.5
May-12	<4.0	100	<0.6	2.1	<2.1	181	<1.9	<0.053	<10	6.71	25.2	14	<4.5
Aug-12	<4.0	110	<0.6	2	<2.1	172	<1.9	<0.053	<10	6.59	23.6	8	<4.5
Nov-12	<4.0	130	<0.6	2	<2.1	152	<1.9	<0.053	<10	6.73	15.3	8	<4.5
Feb-13	<4.0	110	<0.6	2	<2.1	195	<1.9	<0.015	<10	6.75	18.7	6.6	<4.5
May-13	<4.0	110	<0.6	2.1	<2.1	171	<1.9	<0.015	<10	6.24	20.5	5	<4.5
Aug-13	<4.0	110	<0.6	2	<2.1	153	<1.9	<0.015	<10	6.69	24.5	7.2	<4.5
Nov-13	<4.0	130	<0.6	2.3	<2.1	150	<1.9	<0.015	<10	6.75	18	5.6	<4.5
Feb-14	<4.0	130	<0.6	2.3	<2.1	145	<1.9	<0.015	<10	7.3	15.8	9.1	<4.5
Apr-14	<4.0	110	<0.6	2.2	<2.1	152	<1.9	<0.015	<10	7.39	21.4	7.1	<4.5
Jul-14	<4.0	110	<0.6	2.2	<2.1	186	<1.9	<0.015	<10	7.51	24.6	9.4	<4.5
Oct-14	<4.0	100	<0.6	2.1	<2.1	171	<1.9	<0.015	<10	7.42	22.2	5.6	<4.5
Feb-15	<4.0	110	<0.6	2.2	<2.1	128	<2.1	<0.015	<10	7.62	15.2	--	<4.5
Apr-15	<2.2	110	<0.54	2.2	<0.72	175	<4.7	<0.028	<2.8	6.94	21.6	17	<2.2
Aug-15	<2.2	<1.9	<0.54	2	<0.72	178	<4.7	<0.028	<2.8	6.24	24.3	5.2	<2.2
Oct-15	<2.2	<1.9	<0.54	2.2	<0.72	162	<4.7	<0.028	<2.8	6.89	21.8	2.5	<2.2
Feb-16	<2.2	100	<0.54	<0.033	<0.72	174	<4.7	<0.028	<2.8	6.94	16.9	5.6	<2.2
May-16	<2.2	<1.9	<0.54	2.2	<0.72	148	<4.7	<0.028	<2.8	6.71	21.4	2.4	<2.2
Aug-16	<2.2	100	<0.54	2.1	<0.72	140	<4.7	<0.028	<2.8	6.62	23.2	9.1	<2.2
Oct-16	<2.2	110	<0.54	2.1	<0.72	130	<4.7	<0.028	<2.8	6.43	24.5	8.8	<2.2
Feb-17	<2.2	<1.9	<0.54	2.1	<0.72	120	<4.7	<0.028	<2.8	6.28	20.8	4.9	<2.2
Apr-17	<2.5	75	<0.6	2.1	<1.3	120	<4.7	<0.028	<5	6.38	24.8	4.7	<2.5
Jul-17	<2.5	78	<0.6	2	<1.3	110	<4.7	<0.091	<5	7.1	21.6	4.2	<2.5

Notes:
Data is presented in units of µg/L unless otherwise noted
ND = Non-detect
J = Indicates value is between the method detection limit and practical quantitation limit and is an estimated concentration
Value following "<" represents the method detection limit

Historical Water Quality Data for MW117T

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Nov-96	ND	ND	ND	2.38	ND	183	ND	ND	ND	7.43	18	24.9	27.2
Jan-97	ND	106	ND	2.45	ND	180	ND	ND	ND	7.119	17.8	12	ND
Apr-97	ND	123	ND	2.7	ND	202	ND	ND	ND	6.82	19.5	9.27	ND
Jul-97	ND	ND	ND	2.66	ND	186	ND	ND	ND	6.64	19.6	4.23	32.1
Oct-97	ND	116	ND	3.03	ND	172	ND	ND	ND	6.33	18.7	2.46	ND
Jan-98	ND	117	ND	2.33	ND	176	ND	ND	ND	6.07	18.2	3.05	ND
Apr-98	ND	121	ND	2.39	ND	120	ND	ND	ND	6.2	18.5	4.76	ND
Jul-98	ND	117	ND	2.28	ND	185	ND	ND	ND	7	20.7	5.3	ND
Oct-98	ND	128	ND	2.35	ND	176	ND	ND	ND	5.86	18.4	3.23	ND
Jan-99	ND	121	ND	2.25	ND	192	ND	ND	ND	6.4	19.1	3.6	ND
Apr-99	ND	110	ND	2.9	ND	190	ND	ND	ND	6.3	19	4	ND
Jul-99	ND	113	ND	2.32	ND	247	ND	ND	ND	6.54	19.9	3.9	ND
Oct-99	ND	114	ND	2.43	ND	227	ND	ND	ND	6.77	19	3.76	ND
Jan-00	ND	102	ND	2.3	ND	159	ND	ND	ND	6.55	18.5	2.61	ND
Apr-00	ND	110	ND	2.25	ND	202	ND	ND	ND	6.46	19.1	2.08	ND
Jul-00	ND	110	ND	2.18	ND	200	ND	ND	ND	6.48	20.2	2.6	ND
Oct-00	ND	ND	ND	2.25	ND	259	ND	ND	ND	6.94	18.9	1.81	ND
Jan-01	ND	ND	ND	2.19	ND	281	ND	ND	ND	6.69	18.4	2.1	ND
Apr-01	ND	ND	ND	2.36	ND	227	ND	ND	ND	6.85	17.9	3.65	ND
Jul-01	ND	ND	ND	2.34	ND	189	ND	ND	ND	6.79	20	3.26	ND
Oct-01	ND	104	ND	ND	ND	206	ND	ND	ND	6.99	19.4	3.2	ND
Jan-02	ND	ND	ND	2.19	ND	217	ND	ND	ND	6.93	18.1	4.42	ND
Apr-02	ND	ND	ND	2.32	ND	187	ND	ND	ND	7.48	20	2.76	ND
Jul-02	ND	ND	ND	2.16	ND	203	ND	ND	ND	6.64	21.4	3.52	ND
Oct-02	ND	ND	ND	2.41	ND	210	ND	ND	ND	7.16	20	3.54	ND
Jan-03	ND	ND	ND	2.19	ND	207	ND	ND	ND	6.62	18.3	2.33	ND
Apr-03	ND	101	ND	2.36	ND	217	ND	ND	ND	7.27	18.9	2.54	ND
Jul-03	ND	104	ND	2.32	ND	201	ND	ND	ND	6.58	23	2.76	ND
Oct-03	ND	139	ND	2.43	ND	193	ND	ND	ND	6.78	20	3.76	35.5
Jan-04	ND	114	ND	2.4	ND	215	ND	ND	ND	7.1	18.6	3.75	ND
Apr-04	ND	124	ND	2.36	ND	196	ND	ND	ND	7	19	2.76	ND
Jul-04	ND	131	ND	2.42	ND	184	ND	ND	ND	7.2	20.6	4.3	ND
Oct-04	ND	129	ND	2.41	ND	186	ND	ND	ND	6.7	19.4	3.6	ND
Jan-05	ND	129	ND	2.33	ND	181	ND	ND	ND	6.9	16.4	5.21	ND
Apr-05	ND	125	ND	2.31	ND	183	ND	ND	ND	6.8	19.3	3.67	ND
Jul-05	ND	132	ND	2.34	ND	183	ND	ND	ND	6.6	21.5	2.8	ND
Oct-05	ND	124	ND	2.33	ND	195	ND	ND	ND	7	21.3	2.07	ND
Jan-06	ND	138	ND	2.41	ND	180	ND	ND	ND	7	18.6	2.33	ND
May-06	ND	135	ND	2.32	ND	180	ND	ND	ND	7	20.8	8.49	ND
Aug-06	<1.5	124	<1.0	2.31	1.32 J	227	4.14 J	<0.06	<1.0	7.3	23	3.17	6.69 J
Nov-06	1.5 J	136	<1.0	2.33	1.49 J	152	<2.5	<0.06	<1.0	7.3	20.4	4.51	8.57 J
Feb-07	<1.5	189	<1.0	2.36	2.86 J	134	<2.5	<0.06	<1.0	7.6	15.4	16.3	10.4 J
May-07	<1.5	134	<1.0	2.31	1.43 J	183	<2.5	<0.06	<1.0	7	21	5.76	2.31 J
Aug-07	<1.5	144	<1.0	2.24	<1.0	166	<2.5	<0.03	<1.0	7.2	26	4.51	<2.0

Historical Water Quality Data for MW117T

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Nov-07	3.44 J	130	<1.0	2.28	1.53 J	188	<2.5	<0.03	<1.0	7.1	22.6	5.9	4.34 J
Feb-08	<1.5	130	<1.0	2.32	<2.0	148	<2.5	<0.03	<1.0	7.1	17	3.77	6.11 J
Apr-08	<1.5	140	<1.0	2.31	<2.0	164	2.59 J	<0.03	<1.0	6.9	20.8	9.74	3.87 J
Aug-08	<1.5	130	<1.0	2.24	<2.0	195	<2.5	<0.03	<1.0	6.9	23.1	12.3	4.19 J
Nov-08	<1.5	132	<1.0	2.24	<2.0	188	<2.5	<0.067	<1.0	7.1	21.7	12.9	4.78 J
Feb-09	<1.5	134	<1.0	2.31	<2.0	139	3.09 J	<0.067	<1.0	6.6	16.7	10.7	6.82 J
May-09	<1.5	147	<1.0	2.4	<2.0	187	<2.5	<0.067	<1.0	6.9	24.9	11.1	<2.0
Jul-09	<1.6	140	<1.0	2.17	<1.0	197	<3.3	<0.066	<1.5	6.9	23	2.77	6.81 J
Oct-09	<1.6	145	<1.0	2.16	<1.0	188	<3.3	<0.066	<1.5	6.9	21.3	6.3	6.65 J
Feb-10	<1.6	139	<1.0	2.2	<1.0	129	<3.3	<0.066	<1.5	7.1	8.9	3.55	4.14 J
May-10	<1.6	141	<1.0	2.19	<1.0	182	<3.3	<0.066	<1.5	6.4	21.3	6.87	<3.3
Aug-10	<1.6	139	<1.0	2.27	1.27 J	191	<3.3	<0.066	<1.5	7	22.2	10	5.28 J
Nov-10	<1.6	146	<1.0	2.26	<1.0	175	<3.3	<0.066	<1.5	6.6	21.2	9.35	<3.3
Feb-11	<1.7	141	<1.0	2.2	<1.0	161	<3.3	<0.066	<1.5	6.8	17.8	10.9	<3.3
May-11	<1.7	139	<1.0	2.45	<1.0	187	<3.3	<0.066	<1.5	7	20.7	10.3	<3.3
Aug-11	<1.7	143	<1.0	2.27	<1.0	187	<3.3	<0.066	<1.5	6.9	23.9	12.8	<3.3
Nov-11	<1.7	140	<1.0	2.27	<1.0	175	<3.3	<0.066	<1.5	6.7	19	13.2	<3.3
Mar-12	<4.0	130	<0.6	2.5	<2.1	164	<1.9	<0.053	<10	7.15	18.7	2.5	<4.5
May-12	<4.0	140	<0.6	2.4	<2.1	208	<1.9	<0.053	<10	7.06	24.5	9.8	<4.5
Aug-12	<4.0	140	<0.6	2.4	<2.1	222	<1.9	<0.053	<10	6.76	27.6	15	<4.5
Nov-12	<4.0	140	<0.6	2.3	<2.1	176	<1.9	<0.053	<10	6.75	19.1	5.7	<4.5
Feb-13	<4.0	150	<0.6	2.3	<2.1	209	<1.9	<0.015	<10	6.8	19.8	1.1	<4.5
May-13	<4.0	120	<0.6	2.6	<2.1	199	<1.9	<0.015	<10	7.13	24.8	1.1	<4.5
Aug-13	<4.0	100	<0.6	2	<2.1	205	<1.9	<0.015	<10	6.79	23.8	2.4	<4.5
Oct-13	<4.0	100	<0.6	2.1	<2.1	204	<1.9	<0.015	<10	7.02	23.7	2.7	<4.5
Feb-14	<4.0	<7.5	<0.6	2	<2.1	164	<1.9	<0.015	<10	6.96	15.9	1.7	<4.5
Apr-14	<4.0	110	<0.6	2.1	<2.1	185	<1.9	<0.015	<10	6.99	23	ND	<4.5
Jul-14	<4.0	<7.5	<0.6	2.1	<2.1	198	<1.9	<0.015	<10	5.78	23.9	4.3	<4.5
Oct-14	<4.0	<7.5	<0.6	2	<2.1	197	<1.9	<0.015	<10	6.88	23.1	1.7	<4.5
Feb-15	<4.0	<7.5	<0.6	<0.11	<2.1	170	<2.1	<0.015	<10	6.5	18.5	--	<4.5
Apr-15	<2.2	<1.9	<0.54	2.1	<0.72	190	<4.7	<0.028	<2.8	7	21.5	3.8	<2.2
Aug-15	<2.2	<1.9	<0.54	2	<0.72	210	<4.7	<0.028	<2.8	6.64	26.6	7.7	<2.2
Oct-15	<2.2	<1.9	<0.54	2.2	<0.72	187	<4.7	<0.028	<2.8	7	22.8	4.1	<2.2
Feb-16	<2.2	100	<0.54	<0.033	<0.72	197	<4.7	<0.028	<2.8	7.12	17.8	1.3	<2.2
May-16	<2.2	<1.9	<0.54	2.3	<0.72	174	<4.7	<0.028	<2.8	6.97	28.1	1.7	<2.2
Aug-16	<2.2	<1.9	<0.54	2.2	<0.72	130	<4.7	<0.028	<2.8	6.78	25.3	ND	<2.2
Oct-16	<2.2	100	<0.54	2.2	<0.72	150	<4.7	<0.028	<2.8	6.57	24.9	3.2	<2.2
Feb-17	<2.2	<1.9	<0.54	2.1	<0.72	120	<4.7	<0.028	<2.8	6.67	18.8	4	<2.2
Apr-17	<2.5	110	<0.6	2.4	<1.3	156	<4.7	<0.028	<5	7.01	22.3	2.7	<2.5
Jul-17	<2.5	100	<0.6	2.2	<1.3	120	<4.7	<0.091	<5	6.97	22	3	<2.5

Notes:
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ND = Non-detect

J = Indicates value is between the method detection limit and practical quantitation limit and is an estimated concentration
Value following "<" represents the method detection limit

Historical Water Quality Data for MW126T

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Oct-95	ND	ND	ND	2.2	ND	165	ND	ND	ND	6.82	19.3	24.7	ND
Feb-96	ND	179	ND	ND	ND	178	ND	ND	ND	6.79	16.2	5.2	ND
Apr-96	ND	207	ND	2.22	ND	247	ND	ND	ND	7.04	18.1	3.3	ND
Jul-96	ND	218	ND	ND	ND	198	ND	ND	ND	6.52	20.1	4.04	ND
Oct-96	ND	224	ND	2.11	ND	199	ND	ND	ND	6.74	19.8	2.98	ND
Jan-97	ND	230	ND	ND	ND	232	ND	ND	ND	6.49	18.3	4.1	ND
Apr-97	ND	222	ND	2.24	ND	214	ND	ND	ND	6.74	19.8	2.33	ND
Jul-97	ND	192	ND	2.28	ND	216	ND	ND	ND	6.28	19.8	4.87	ND
Oct-97	ND	220	ND	2.33	ND	200	ND	ND	ND	6.92	19.6	2.66	ND
Jan-98	ND	203	ND	2.05	ND	208	ND	ND	ND	6.41	18.2	4.9	ND
Apr-98	ND	231	ND	2.4	ND	233	ND	ND	ND	6.89	19.1	2.74	ND
Jul-98	ND	ND	ND	2.12	ND	241	ND	ND	ND	6.36	20.6	3.18	ND
Oct-98	ND	192	ND	1.99	ND	201	ND	ND	ND	5.94	19.3	1.03	ND
Jan-99	ND	223	ND	ND	ND	250	ND	ND	ND	7.05	20.1	2.28	ND
Apr-99	ND	220	ND	2.5	ND	210	ND	ND	ND	ND	19	2.8	ND
Jul-99	ND	229	ND	2.02	ND	270	ND	ND	ND	6.61	19.6	3.12	ND
Oct-99	ND	257	ND	2.07	ND	250	ND	ND	ND	6.89	19.1	3.77	ND
Jan-00	ND	224	ND	2.14	ND	173	ND	ND	ND	6.88	18.4	4.13	ND
Apr-00	ND	215	ND	2.09	ND	209	ND	ND	ND	6.85	19.1	2.84	ND
Jul-00	ND	213	ND	ND	ND	210	ND	ND	ND	6.87	20.5	3.5	ND
Oct-00	ND	224	ND	ND	ND	238	ND	ND	ND	7.08	19.8	3.08	ND
Jan-01	ND	231	ND	ND	ND	214	ND	ND	ND	6.59	18.7	3.78	ND
Apr-01	ND	216	ND	ND	ND	188	ND	ND	ND	7	18.1	1.27	ND
Jul-01	ND	218	ND	ND	ND	202	ND	ND	ND	6.71	20	5.47	ND
Oct-01	ND	229	ND	ND	ND	205	ND	ND	ND	7.12	17.7	3.08	ND
Jan-02	ND	212	ND	2.17	ND	199	ND	ND	ND	6.86	18.1	4.28	ND
Apr-02	ND	226	ND	ND	ND	204	ND	ND	ND	7.21	20.8	3.45	ND
Jul-02	ND	228	ND	ND	ND	199	ND	ND	ND	6.98	20	2.84	ND
Oct-02	ND	227	ND	2.17	ND	208	ND	ND	ND	7.45	18.9	1.74	ND
Jan-03	ND	234	ND	2.18	ND	210	ND	ND	ND	6.98	18.2	2.96	ND
Apr-03	ND	205	ND	2.08	ND	201	ND	ND	ND	7.49	19.7	2.24	ND
Jul-03	ND	215	ND	2.16	ND	204	ND	ND	ND	6.69	20	2.44	ND
Oct-03	ND	217	ND	2.13	ND	199	ND	ND	ND	7.36	19.6	2.84	ND
Jan-04	ND	244	ND	2.14	ND	202	ND	ND	ND	7	17.5	2.9	ND
Jan-05	ND	252	ND	2.14	ND	221	ND	ND	ND	7	17.9	3.19	ND
Jan-06	ND	273	ND	2.26	ND	214	ND	ND	ND	7.1	18.6	0.96	ND
Feb-07	<1.5	247	<1.0	2.2	<1.0	190	<2.5	<0.06	<1.0	7.1	18.4	2.58	12.1 J
Feb-08	<1.5	260	<1.0	2.27	<2.0	177	<2.5	<0.03	<1.0	6.9	18.1	7.11	8.14 J
Feb-09	<1.5	296	<1.0	2.21	3.9 J	154	2.85 J	<0.067	1.71 J	6.9	13	10	11.2 J
Feb-10	<1.6	21.5 J	<1.0	1.97 J	1.18 J	150	4.29 J	<0.066	<1.5	6.7	14.4	4.71	<3.3
Feb-11	<1.7	267	<1.0	2.26	<1.0	196	<3.3	<0.066	<1.5	7	16.1	5.98	3.91 J
Mar-12	<4.0	280	<0.6	2.3	<2.1	171	<1.9	<0.053	<10	6.98	17.2	1.4	<4.5
Feb-13	<4.0	270	<0.6	2.1	<2.1	223	<1.9	<0.015	<10	7.06	19.3	5.8	<4.5
Feb-14	<4.0	260	<0.6	2.3	<2.1	186	<1.9	<0.015	<10	7.38	15.8	1	<4.5

Historical Water Quality Data for MW126T

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Feb-15	<4.0	**280**	<0.6	**2.4**	<2.1	**195**	<2.1	<0.015	<10	**7.02**	**16.3**	--	<4.5
Feb-16	<4.0	**260**	<0.6	**2.7**	<2.1	**215**	<2.1	<0.015	<10	**7.02**	**14.1**	**1.9**	<4.5
Feb-17	<2.2	**240**	<0.54	**2.5**	<0.72	**140**	<4.7	<0.028	<2.8	**6.49**	**22.5**	**2.9**	<2.2

Notes:
Data is presented in units of µg/L unless otherwise noted
ND = Non-detect
J = Indicates value is between the method detection limit and practical quantitation limit and is an estimated concentration
Value following "<" represents the method detection limit

Historical Water Quality Data for MW127T

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Oct-95	ND	ND	ND	2.1	ND	358	ND	ND	ND	7.11	18.6	1.95	ND
Feb-96	ND	101	ND	ND	ND	277	ND	ND	ND	7.01	17.1	8.14	ND
Apr-96	ND	121	ND	2.14	ND	366	ND	ND	ND	7.01	17.8	4.88	ND
Jul-96	ND	128	ND	2.09	ND	346	ND	ND	ND	7.15	19.2	4.9	ND
Oct-96	ND	102	ND	2	ND	365	ND	ND	ND	7.07	19.7	2.38	ND
Jan-97	ND	104	ND	2.14	ND	346	ND	ND	ND	7.23	17.7	7.18	ND
Apr-97	ND	ND	ND	ND	ND	356	ND	ND	ND	6.57	18.3	7.65	ND
Jul-97	ND	ND	ND	2.7	ND	327	ND	ND	ND	6.76	20.3	7.83	ND
Oct-97	ND	ND	ND	2.22	ND	359	ND	ND	ND	6.78	19.9	2.6	ND
Jan-98	ND	108	ND	ND	ND	355	ND	ND	ND	6.8	18.2	10.2	ND
Apr-98	ND	123	ND	ND	ND	363	ND	ND	ND	6.4	18.6	5.01	ND
Jul-98	ND	ND	ND	ND	ND	366	ND	ND	ND	6.65	20.5	3.59	ND
Oct-98	ND	109	ND	1.83	ND	305	ND	ND	ND	6.24	19.4	1.42	ND
Jan-99	ND	ND	ND	ND	ND	306	ND	ND	ND	6.03	18.4	1.62	ND
Apr-99	ND	ND	ND	2.2	ND	280	ND	ND	ND	6.2	19	1.2	54
Jul-99	ND	ND	ND	ND	ND	315	ND	ND	ND	6.57	20	10	ND
Oct-99	ND	ND	ND	ND	ND	249	ND	ND	ND	6.06	19.2	3.9	ND
Jan-00	ND	ND	ND	ND	ND	323	ND	ND	ND	6.29	18.6	1.74	ND
Apr-00	ND	ND	ND	ND	ND	250	ND	ND	ND	6.23	18.9	11.3	ND
Jul-00	ND	ND	ND	ND	ND	225	ND	ND	ND	6.25	20.8	11.1	ND
Oct-00	ND	ND	ND	ND	ND	270	ND	ND	ND	6	19	4.7	ND
Jan-01	ND	103	ND	ND	ND	281	ND	ND	ND	6.21	17.8	1.86	23.1
Apr-01	ND	ND	ND	ND	ND	261	ND	ND	ND	6.13	21.1	15.8	ND
Jul-01	ND	ND	ND	ND	ND	271	ND	ND	ND	6.38	20	22.8	ND
Oct-01	ND	ND	ND	ND	ND	254	ND	ND	ND	6.28	19.6	3.18	ND
Jan-02	ND	ND	ND	ND	ND	242	ND	ND	ND	6.47	17.2	2.8	ND
Apr-02	ND	ND	ND	2.03	ND	215	ND	ND	ND	6.07	18.7	10.4	ND
Jul-02	ND	103	ND	ND	ND	258	ND	ND	ND	6.28	20.6	15.06	ND
Oct-02	ND	ND	ND	ND	ND	224	ND	ND	ND	6.36	18.9	4.45	ND
Jan-03	ND	ND	ND	ND	ND	265	ND	ND	ND	6.18	17.2	12.4	ND
Apr-03	ND	122	ND	ND	ND	285	ND	ND	ND	6.71	17.5	9.4	ND
Jul-03	ND	ND	ND	ND	ND	262	ND	ND	ND	6.98	20.6	9.15	ND
Oct-03	ND	ND	ND	ND	ND	270	ND	ND	ND	6.55	18.1	2.25	ND
Jan-04	ND	ND	ND	2.07	ND	268	ND	ND	ND	6.5	17.2	2.44	ND
Apr-04	ND	ND	ND	ND	ND	339	ND	ND	ND	5.7	17.2	26.2	ND
Jul-04	ND	ND	ND	ND	ND	307	ND	ND	ND	6.4	19.9	2.78	ND
Oct-04	ND	ND	ND	2.04	ND	299	ND	ND	ND	6.3	20.8	1	ND
Jan-05	ND	ND	ND	ND	ND	261	ND	ND	ND	6.4	18.7	14.5	ND
Apr-05	ND	ND	ND	ND	ND	269	ND	ND	ND	6.5	18.8	1.25	ND
Jul-05	ND	ND	ND	ND	ND	249	ND	ND	ND	6.4	22	15.5	ND
Oct-05	ND	ND	ND	ND	ND	256	ND	ND	ND	7	20.4	10.5	ND
Jan-06	ND	ND	ND	ND	ND	231	ND	ND	ND	6.6	18.2	10.9	ND
May-06	ND	ND	ND	ND	ND	260	ND	ND	ND	6.4	20.8	11.8	ND
Aug-06	<1.5	50.8 J	<1.0	1.8 J	<1.0	252	<2.5	<0.06	<1.0	6.5	24.9	15.2	7.96 J
Nov-06	<1.5	28.7 J	<1.0	1.92 J	<1.0	134	<2.5	<0.06	<1.0	6.6	22.1	11.1	3.41 J

Historical Water Quality Data for MW127T

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Feb-07	<1.5	39.5 J	<1.0	1.94 J	<1.0	214	<2.5	<0.06	<1.0	6.5	17.5	3.17	8.43 J
Apr-07	2.23 J	60.5 J	<1.0	1.96 J	1.37 J	231	<2.5	<0.06	2.71 J	6.5	19.5	8.73	<2.0
Aug-07	<1.5	41 J	<1.0	1.92 J	<1.0	224	<2.5	<0.03	<1.0	6.3	20.9	1.97	<2.0
Nov-07	2.7 J	25.6 J	<1.0	1.97 J	1.84 J	219	<2.5	<0.03	<1.0	NS	20.4	10.7	5.12 J
Feb-08	<1.5	25.4 J	<1.0	1.91 J	<2.0	213	<2.5	<0.03	<1.0	6.5	18	4.15	6.74 J
Apr-08	<1.5	25.4 J	<1.0	2	<2.0	240	<2.5	<0.03	1.19 J	6.7	20	12.2	3.54 J
Aug-08	<1.5	23.9 J	<1.0	2.01	2.99 J	267	<2.5	<0.03	<1.0	6.7	21.5	6.34	4.9 J
Nov-08	<1.5	17 J	<1.0	2 J	<2.0	220	<2.5	<0.067	<1.0	7	20.5	7.52	8.03 J
Feb-09	<1.5	15.9 J	<1.0	1.91 J	2.36 J	198	<2.5	<0.067	<1.0	6.9	17	14.5	2.05 J
May-09	<1.5	13.4 J	<1.0	1.91 J	<2.0	213	<2.5	<0.067	<1.0	6.5	20.4	9.37	4.57 J
Jul-09	<1.6	14.9 J	<1.0	1.85 J	1.7 J	228	<3.3	<0.066	2.01 J	6.1	21.9	2.88	4.22 J
Oct-09	<1.6	16.5 J	<1.0	1.74 J	4.52 J	245	<3.3	<0.066	<1.5	6.3	21.2	8.56	6.61 J
Feb-10	<1.6	23.2 J	<1.0	1.78 J	2.39 J	209	<3.3	<0.066	2.62 J	6.2	16.8	5.71	<3.3
Apr-10	<1.6	21.9 J	<1.0	1.79 J	<1.0	195	<3.3	<0.066	1.67 J	6.7	19.3	7.44	9.13 J
Aug-10	<1.6	20.5 J	<1.0	1.95 J	2.08 J	211	<3.3	<0.066	<1.5	6.7	21.4	8.83	5.16 J
Nov-10	<1.6	12.5 J	<1.0	1.91 J	1.99 J	228	<3.3	<0.066	<1.5	6.8	20.3	14.9	<3.3
Feb-11	2.34 J	31.4 J	<1.0	1.96 J	<1.0	188	<3.3	<0.066	<1.5	6.5	17.3	12.1	9.28 J
May-11	<1.7	13.9 J	<1.0	1.92 J	<1.0	199	<3.3	<0.066	<1.5	6.5	18.3	11.8	<3.3
Aug-11	<1.7	10.5 J	<1.0	1.93 J	2.01 J	194	<3.3	<0.066	<1.5	6.8	22.1	12.5	<3.3
Nov-11	<1.7	18.8 J	<1.0	1.94 J	2.53 J	194	<3.3	<0.066	<1.5	6.8	19.2	17.1	<3.3
Mar-12	<4.0	<7.5	<0.6	2.2	<2.1	200	<1.9	<0.053	<10	6.99	18	16	<4.5
May-12	<4.0	<7.5	<0.6	2	<2.1	251	<1.9	<0.053	<10	6.14	19.9	7.8	<4.5
Aug-12	<4.0	<7.5	<0.6	2.1	<2.1	243	<1.9	<0.053	<10	6.33	24.7	18	<4.5
Nov-12	<4.0	<7.5	<0.6	-	<2.1	207	<1.9	<0.053	<10	6.37	16.6	17	<4.5
Feb-13	<4.0	<7.5	<0.6	2	<2.1	203	<1.9	<0.015	<10	7.34	17.7	16	<4.5
May-13	<4.0	<7.5	<0.6	2.1	<2.1	199	<1.9	<0.015	<10	6.5	17.4	9.8	<4.5
Aug-13	<4.0	<7.5	<0.6	<0.11	<2.1	224	<1.9	<0.015	<10	6.72	25.4	4.7	<4.5
Nov-13	<4.0	<7.5	<0.6	2.1	<2.1	197	<1.9	<0.015	<10	6.77	19.8	12	<4.5
Jan-14	<4.0	<7.5	<0.6	2	<2.1	243	<1.9	<0.015	<10	6.77	11.9	9.1	<4.5
Apr-14	<4.0	<7.5	<0.6	2.1	<2.1	191	<1.9	<0.015	<10	6.47	22.7	9.7	<4.5
Jul-14	<4.0	<7.5	<0.6	2.1	<2.1	242	<1.9	<0.015	<10	6.21	23.5	5	<4.5
Oct-14	<4.0	<7.5	<0.6	<0.11	<2.1	224	<1.9	<0.015	<10	6.54	19.2	9.1	<4.5
Jan-15	<4.0	<7.5	<0.6	2	<2.1	211	<2.1	<0.015	<10	7.85	17.1	8.5	<4.5
Apr-15	<2.2	<1.9	<0.54	2.2	<0.72	219	<4.7	<0.028	<2.8	6.43	20.9	1.2	<2.2
Aug-15	<2.2	<1.9	<0.54	2	<0.72	261	<4.7	<0.028	<2.8	6.37	26.1	8	<2.2
Oct-15	<2.2	<1.9	<0.54	2.2	<0.72	214	<4.7	<0.028	<2.8	6.63	23	9.7	<2.2
Feb-16	<2.2	<1.9	<0.54	2	<0.72	224	<4.7	<0.028	<2.8	6.09	20.4	21	<2.2
Apr-16	<2.2	<1.9	<0.54	2	<0.72	250	<4.7	<0.028	<2.8	6.52	22.3	3.9	<2.2
Jul-16	<2.2	<1.9	<0.54	<0.033	<0.72	170	<4.7	<0.028	<2.8	6.36	24.6	4	<2.2
Oct-16	<2.2	<1.9	<0.54	2	<0.72	150	<4.7	<0.028	<2.8	6.09	24.4	6.7	<2.2
Jan-17	<2.2	<1.9	<0.54	2.1	<0.72	120	<4.7	<0.028	<2.8	6.51	17.2	6.2	<2.2
Apr-17	<2.5	<3.1	<0.6	2	<1.3	185	<4.7	<0.028	<5	6.77	22.7	12	<2.5
Jul-17	<2.5	<3.1	<0.6	2.1	<1.3	140	<4.7	<0.091	<5	6.13	23.3	3.7	<2.5

Notes:
Data is presented in units of µg/L unless otherwise noted
ND = Non-detect

J = Indicates value is between the method detection limit and practical quantitation limit and is an estimated concentration
Value following "<" represents the method detection limit

Historical Water Quality Data for MW131T

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Mar-02	ND	ND	ND	ND	ND	232	ND	ND	ND	6.47	19.1	2.95	ND
Apr-02	ND	ND	ND	7.77	ND	159	ND	ND	ND	6.75	19.7	0.82	ND
Jul-02	ND	ND	ND	ND	ND	187	ND	ND	ND	6.49	20.3	0.98	ND
Oct-02	ND	ND	ND	ND	ND	208	ND	ND	ND	6.33	19.4	0.45	ND
Jan-03	ND	ND	ND	2.04	ND	232	ND	ND	ND	6.73	17.3	0.87	ND
Apr-03	ND	ND	ND	3.45	ND	222	ND	ND	ND	6.65	18	2.07	ND
Jul-03	ND	ND	ND	2.45	ND	181	ND	ND	ND	6.55	21.1	2.86	ND
Oct-03	ND	ND	ND	2.86	ND	202	ND	ND	ND	6.6	19.4	1.82	ND
Jan-04	ND	ND	ND	2.36	ND	199	ND	ND	ND	6.7	18.3	0.7	ND
Apr-04	ND	ND	ND	2.86	ND	210	ND	ND	ND	6.3	18.6	2.16	ND
Jul-04	ND	ND	ND	2.91	ND	258	ND	ND	ND	6.5	19.3	1.06	ND
Oct-04	ND	ND	ND	3.49	ND	222	ND	ND	ND	6.6	20.2	3.7	ND
Jan-05	ND	ND	ND	2.87	ND	209	ND	ND	ND	6.6	19.2	1.1	ND
Apr-05	ND	ND	ND	2.69	ND	247	ND	ND	ND	6.6	20	3.2	ND
Jul-05	ND	ND	ND	2.57	ND	220	ND	ND	ND	6.6	20.5	1.34	ND
Oct-05	ND	ND	ND	2.68	ND	210	ND	ND	ND	6.5	18.9	1.4	ND
Jan-06	ND	ND	ND	4.84	ND	240	ND	ND	ND	6.4	18.6	0.33	ND
May-06	ND	ND	ND	7.17	ND	253	ND	ND	ND	6.5	20.2	8.04	ND
Aug-06	<1.5	30 J	<1.0	4.46	<1.0	217	<2.5	<0.06	<1.0	6.7	23.4	1.98	8.23 J
Nov-06	<1.5	32.5 J	<1.0	3.25	<1.0	164	<2.5	<0.06	<1.0	6.9	19.3	1.74	7.36 J
Feb-07	<1.5	27 J	<1.0	3.08	<1.0	167	2.51 J	<0.06	<1.0	6.8	18.3	0.37	7.76 J
Apr-07	<1.5	27.9 J	<1.0	2.62	<1.0	190	<2.5	<0.06	<1.0	6.5	20.5	3.31	2.3 J
Aug-07	<1.5	23.5 J	<1.0	2.52	<1.0	216	<2.5	<0.03	<1.0	6.5	20.5	1.68	7.62 J
Nov-07	3.7 J	22 J	<1.0	2.2	<1.0	171	<2.5	<0.03	<1.0	6.7	19.6	3.44	3.89 J
Feb-08	<1.5	22 J	<1.0	2.17	<2.0	179	<2.5	<0.03	<1.0	6.5	18.1	1.71	3.64 J
Apr-08	<1.5	24.9 J	<1.0	2.21	<2.0	174	<2.5	<0.03	<1.0	6.5	19.7	11.1	2.94 J
Aug-08	<1.5	24.8 J	<1.0	2.33	<2.0	194	<2.5	<0.03	<1.0	6.4	20.7	6.03	8.57 J
Nov-08	<1.5	19.6 J	<1.0	2.44	<2.0	184	<2.5	<0.067	<1.0	6.9	18.8	7.99	8.24 J
Jan-09	<1.5	18 J	<1.0	2.28	<2.0	191	<2.5	<0.067	<1.0	6.3	18.5	9.28	3.62 J
Apr-09	1.61 J	17.2 J	<1.0	2.24	<2.0	185	<2.5	<0.067	<1.0	6.4	20.2	6.12	7.65 J
Jul-09	<1.6	19.6 J	<1.0	2.13	<1.0	196	<3.3	<0.066	<1.5	6	21	2.45	4.22 J
Oct-09	<1.6	19.9 J	<1.0	2.08	1.32 J	182	<3.3	<0.066	<1.5	6.6	19.1	6.46	9.13 J
Jan-10	<1.6	19 J	<1.0	2.17	<1.0	185	<3.3	<0.066	<1.5	6.6	17.6	7.97	17.7 J
Apr-10	<1.6	84.9 J	<1.0	2.34	<1.0	190	<3.3	<0.066	<1.5	6.4	19.3	7.43	8.63 J
Jul-10	<1.6	20.1 J	<1.0	2.36	<1.0	190	<3.3	<0.066	<1.5	6.5	21.1	9.77	4.73 J
Nov-10	<1.6	20.1 J	<1.0	2.26	<1.0	165	<3.3	<0.066	<1.5	6.5	18.3	10.9	<3.3
Feb-11	<1.7	19.7 J	<1.0	2.1	<1.0	160	<3.3	<0.066	<1.5	6.4	17.6	7.63	<3.3
May-11	<1.7	23.5 J	<1.0	2.15	<1.0	169	<3.3	<0.066	<1.5	6.4	19.6	9.51	<3.3
Jul-11	<1.7	22.9 J	<1.0	2.13	<1.0	178	<3.3	<0.066	<1.5	6.7	20.8	9.63	<3.3
Nov-11	<1.7	25.2 J	<1.0	2.1	<1.0	182	<3.3	<0.066	<1.5	6.5	20	15.3	<3.3
Mar-12	<4.0	<7.5	<0.6	2.4	<2.1	188	<1.9	<0.053	<10	6.51	19.3	8.79	<4.5
May-12	<4.0	<7.5	<0.6	2.1	<2.1	201	<1.9	<0.053	<10	6.38	20.5	7	<4.5
Aug-12	<4.0	<7.5	<0.6	2.7	<2.1	ND	<1.9	0.26	<10	6.4	21.5	6.4	<4.5
Nov-12	<4.0	<7.5	<0.6	-	<2.1	167	<1.9	<0.053	<10	6.71	15.6	ND	<4.5

Historical Water Quality Data for MW131T

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
May-13	<4.0	<7.5	<0.6	**2.3**	<2.1	**177**	<1.9	<0.015	<10	**6.65**	**19.8**	ND	<4.5
Aug-13	<4.0	<7.5	<0.6	<0.11	<2.1	**173**	<1.9	<0.015	<10	**6.43**	**21.3**	**1.2**	<4.5
Oct-13	<4.0	<7.5	<0.6	**2.5**	<2.1	**185**	<1.9	<0.015	<10	**6.5**	**20.4**	**13**	<4.5
Jan-14	<4.0	<7.5	<0.6	**2.1**	<2.1	**155**	<1.9	<0.015	<10	**6.57**	**18.2**	**3.4**	**22**
Apr-14	<4.0	<7.5	<0.6	**2.5**	<2.1	**194**	<1.9	<0.015	<10	**6.56**	**25.5**	**2.4**	<4.5
Jul-14	<4.0	<7.5	<0.6	**2.9**	<2.1	**206**	<1.9	<0.015	<10	**6.2**	**23.7**	**9.2**	<4.5
Oct-14	<4.0	<7.5	<0.6	<0.11	<2.1	**183**	<1.9	<0.015	<10	**6.6**	**20.5**	**3.2**	<4.5
Jan-15	<4.0	<7.5	<0.6	**2.2**	<2.1	**162**	<2.1	<0.015	<10	**6.63**	**17.2**	**5.8**	<4.5
Apr-15	<2.2	<1.9	<0.54	**2.4**	<0.72	**163**	<4.7	<0.028	<2.8	**6.74**	**20.2**	ND	<2.2
Aug-15	<2.2	<1.9	<0.54	**2**	<0.72	**199**	<4.7	<0.028	<2.8	**6.63**	**24.7**	**3.7**	<2.2
Oct-15	<2.2	<1.9	<0.54	**2**	<0.72	**196**	<4.7	<0.028	<2.8	**6.66**	**18.5**	**1.6**	<2.2
Jan-16	<2.2	<1.9	<0.54	**2.2**	<0.72	**178**	<4.7	<0.028	<2.8	**6.55**	**18.6**	**8.1**	<2.2
Apr-16	<2.2	<1.9	<0.54	**2.1**	<0.72	**210**	<4.7	<0.028	<2.8	**6.36**	**20.7**	ND	<2.2
Aug-16	<2.2	<1.9	<0.54	**2.1**	<0.72	**150**	<4.7	<0.028	<2.8	**5.74**	**21.2**	**1.4**	<2.2
Oct-16	<2.2	<1.9	<0.54	**2**	<0.72	**140**	<4.7	<0.028	<2.8	**6.37**	**21.2**	**3**	<2.2
Jan-17	<2.2	<1.9	<0.54	**2**	<0.72	**110**	<4.7	<0.028	<2.8	**6.29**	**19.7**	**3.6**	<2.2
Apr-17	<2.5	**28**	<0.6	**2**	<1.3	**178**	<4.7	<0.028	<5	**6.57**	**21**	**1.3**	<2.5
Jul-17	<2.5	**26**	<0.6	**2**	<1.3	**120**	<4.7	<0.091	<5	**6.18**	**21.2**	**1.5**	<2.5

Notes:
Data is presented in units of µg/L unless otherwise noted
ND = Non-detect
J = Indicates value is between the method detection limit and practical quantitation limit and is an estimated concentration
Value following "<" represents the method detection limit

Historical Water Quality Data for MW132T

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Mar-02	ND	ND	ND	ND	ND	246	ND	ND	ND	6.7	19.1	3.06	ND
Apr-02	ND	ND	ND	7.68	ND	169	ND	ND	ND	6.6	19.4	1.44	ND
Jul-02	ND	ND	ND	ND	ND	199	ND	ND	ND	6.52	20.2	0.94	ND
Oct-02	ND	ND	ND	ND	ND	213	ND	ND	ND	6.35	19.2	1	ND
Jan-03	ND	ND	ND	ND	ND	206	ND	ND	ND	6.49	17.4	0.67	ND
Apr-03	ND	ND	ND	ND	ND	190	ND	ND	ND	6.77	18.3	0.59	ND
Jul-03	ND	ND	ND	ND	ND	173	ND	ND	ND	6.54	21.1	0.62	ND
Oct-03	ND	ND	ND	ND	ND	190	ND	ND	ND	6.7	19.4	1.65	ND
Jan-04	ND	ND	ND	ND	ND	190	ND	ND	ND	6.7	18.3	0.68	ND
Apr-04	ND	ND	ND	ND	ND	198	ND	ND	ND	6.3	18.6	1.4	ND
Jul-04	ND	ND	ND	ND	ND	210	ND	ND	ND	6.9	19.4	0.94	ND
Oct-04	ND	ND	ND	ND	ND	206	ND	ND	ND	6.6	20.1	3.42	ND
Jan-05	ND	ND	ND	ND	ND	208	ND	ND	ND	6.7	19.2	1.35	ND
Apr-05	ND	ND	ND	ND	ND	220	ND	ND	ND	6.6	19.7	3.02	ND
Jul-05	ND	ND	ND	ND	ND	202	ND	ND	ND	6.6	20.7	0.9	ND
Oct-05	ND	ND	ND	ND	ND	200	ND	ND	ND	6.5	19	1.87	ND
Jan-06	ND	ND	ND	ND	ND	199	ND	ND	ND	6.3	18.4	0.59	ND
May-06	ND	ND	ND	ND	ND	185	ND	ND	ND	6.5	20.5	7.6	ND
Aug-06	<1.5	84.5 J	<1.0	1.68 J	<1.0	173	<2.5	<0.06	<1.0	6.7	22.5	1.1	7.27 J
Nov-06	<1.5	82.2 J	<1.0	1.8 J	<1.0	145	<2.5	<0.06	<1.0	6.8	20.2	0.83	5.91 J
Feb-07	<1.5	88.3 J	<1.0	1.81 J	<1.0	148	<2.5	<0.06	<1.0	6.8	18.4	0.86	6.24 J
Apr-07	<1.5	83.8 J	<1.0	1.76 J	1.68 J	185	<2.5	<0.06	<1.0	6.6	20.1	2.5	<2.0
Aug-07	<1.5	84.5 J	<1.0	1.78 J	<1.0	214	<2.5	<0.03	<1.0	6.5	20.5	1.09	6.27 J
Nov-07	2.53 J	81.4 J	<1.0	1.76 J	<1.0	165	<2.5	<0.03	<1.0	6.7	19.8	3.56	3.28 J
Feb-08	<1.5	79.8 J	<1.0	1.68 J	<2.0	146	<2.5	<0.03	<1.0	6.6	18.3	2	3.28 J
Apr-08	<1.5	82.6 J	<1.0	1.79 J	<2.0	164	<2.5	<0.03	<1.0	6.6	20.2	8.92	2.45 J
Aug-08	<1.5	81.3 J	<1.0	1.81 J	<2.0	176	<2.5	<0.03	<1.0	6.6	20.9	14.2	8.16 J
Dec-08	<1.5	87 J	<1.0	1.66 J	<2.0	175	<2.5	<0.067	1.37 J	6.6	20	1.3	6.26 J
Jan-09	<1.5	83.2 J	<1.0	1.72 J	<2.0	155	<2.5	<0.067	<1.0	6.4	18.2	8.98	2.49 J
Apr-09	<1.5	85.5 J	<1.0	1.66 J	<2.0	161	<2.5	<0.067	<1.0	6.5	20.2	7.49	7.53 J
Jul-09	<1.6	83.5 J	<1.0	1.67 J	<1.0	169	<3.3	<0.066	<1.5	6.3	20.9	2.71	3.74 J
Oct-09	<1.6	82.8 J	<1.0	1.62 J	<1.0	168	3.6 J	<0.066	<1.5	6.7	19.1	9.09	7.7 J
Jan-10	<1.6	83.6 J	<1.0	1.66 J	<1.0	154	<3.3	<0.066	<1.5	6.7	17.1	2.36	16.8 J
Apr-10	<1.6	92.4 J	<1.0	1.73 J	<1.0	166	<3.3	<0.066	<1.5	6.7	19.3	7.35	8.12 J
Jul-10	<1.6	80.9 J	<1.0	1.73 J	<1.0	180	<3.3	<0.066	<1.5	6.6	21.4	9.87	4.45 J
Nov-10	<1.6	83.3 J	<1.0	1.79 J	<1.0	151	<3.3	<0.066	<1.5	6.6	18.3	9.31	<3.3
Feb-11	<1.7	83.8 J	<1.0	1.68 J	1.04 J	145	<3.3	<0.066	<1.5	6.4	17.4	6.69	3.94 J
May-11	<1.7	83.4 J	<1.0	1.74 J	<1.0	160	<3.3	<0.066	<1.5	6.5	19.8	9.81	<3.3
Jul-11	<1.7	81.5 J	<1.0	1.74 J	<1.0	168	<3.3	<0.066	<1.5	6.8	20.9	9.21	<3.3
Nov-11	<1.7	84.8 J	<1.0	1.68 J	<1.0	171	<3.3	<0.066	<1.5	6.5	19.4	11.5	<3.3
Mar-12	<4.0	<7.5	<0.6	<0.11	<2.1	173	<1.9	<0.053	<10	6.58	19.6	7.45	<4.5
May-12	<4.0	<7.5	<0.6	<0.11	<2.1	194	<1.9	<0.053	<10	6.56	22.7	9.5	<4.5
Aug-12	<4.0	<7.5	<0.6	<0.11	<2.1	ND	<1.9	<0.053	<10	6.4	21.1	2.7	<4.5
Oct-12	<4.0	<7.5	<0.6	<0.11	<2.1	183	<1.9	<0.053	<10	6.65	20.1	ND	<4.5

Historical Water Quality Data for MW132T

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Feb-13	<4.0	<7.5	<0.6	<0.11	<2.1	**172**	<1.9	<0.015	<10	**6.46**	**18.3**	ND	<4.5
May-13	<4.0	<7.5	<0.6	<0.11	<2.1	**179**	<1.9	<0.015	<10	**6.6**	**19.9**	ND	<4.5
Aug-13	<4.0	<7.5	<0.6	<0.11	<2.1	**179**	<1.9	<0.015	<10	**6.87**	**22.4**	**3**	<4.5
Oct-13	<4.0	<7.5	<0.6	<0.11	<2.1	**184**	<1.9	<0.015	<10	**6.55**	**22**	**4.1**	<4.5
Feb-14	<4.0	<7.5	<0.6	<0.11	<2.1	**169**	<1.9	<0.015	<10	**6.75**	**21.5**	**6.3**	<4.5
Apr-14	<4.0	<7.5	<0.6	**2.4**	<2.1	**188**	<1.9	<0.015	<10	**6.52**	**22.5**	**2**	<4.5
Jul-14	<4.0	<7.5	<0.6	<0.11	<2.1	**195**	<1.9	<0.015	<10	**6.5**	**24.2**	**4.1**	<4.5
Oct-14	<4.0	**93**	<0.6	--	<2.1	**195**	<1.9	<0.015	<10	**6.49**	**21.5**	**0.62**	<4.5
Jan-15	<4.0	<7.5	<0.6	--	<2.1	**164**	<2.1	<0.015	<10	**6.72**	**16.6**	**1.9**	<4.5
Apr-15	<2.2	<1.9	<0.54	<0.11	<0.72	**164**	<4.7	<0.028	<2.8	**6.66**	**19.7**	ND	<2.2
Aug-15	<2.2	<1.9	<0.54	<0.11	<0.72	**198**	<4.7	<0.028	<2.8	**6.61**	**24**	**9.4**	<2.2
Oct-15	<2.2	<1.9	<0.54	<0.033	<0.72	**209**	<4.7	<0.028	<2.8	**6.65**	**19.3**	ND	<2.2
Jan-16	<2.2	<1.9	<0.54	**2.8**	<0.72	**199**	<4.7	<0.028	<2.8	**6.52**	**16.3**	**2.3**	<2.2
Apr-16	<2.2	<1.9	<0.54	<0.033	<0.72	**230**	<4.7	<0.028	<2.8	**6.42**	**23.7**	**3.1**	<2.2
Aug-16	<2.2	<1.9	<0.54	<0.033	<0.72	**150**	<4.7	<0.028	<2.8	**5.78**	**21.2**	ND	<2.2
Oct-16	<2.2	<1.9	<0.54	<0.2	<0.72	**140**	<4.7	<0.028	<2.8	**6.37**	**21.9**	**3**	<2.2
Jan-17	<2.2	<1.9	<0.54	<0.2	<0.72	**120**	<4.7	<0.028	<2.8	**6.04**	**21.5**	**2.5**	<2.2
Apr-17	<2.5	**91**	<0.6	<0.2	<1.3	**187**	<4.7	<0.028	<5	**6.68**	**20.3**	ND	<2.5
Jul-17	<2.5	**82**	<0.6	<0.2	<1.3	**130**	<4.7	<0.091	<5	**6.17**	**21.2**	**2.2**	<2.5

Notes:
Data is presented in units of µg/L unless otherwise noted
ND = Non-detect
J = Indicates value is between the method detection limit and practical quantitation limit and is an estimated concentration
Value following "<" represents the method detection limit

Historical Water Quality Data for MW133T

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Mar-02	ND	103	ND	2.41	ND	325	ND	ND	ND	6.52	18.7	11.99	ND
Apr-02	ND	ND	ND	9.35	ND	275	ND	ND	ND	6.75	20	6.3	ND
Jul-02	ND	ND	ND	2.89	ND	331	ND	ND	ND	6.64	21.1	4.15	ND
Oct-02	ND	105	ND	3.03	ND	332	ND	ND	ND	6.59	19.1	2.1	ND
Jan-03	ND	118	ND	2.36	ND	304	ND	ND	ND	7.35	17.3	6.94	ND
Apr-03	ND	121	ND	3.06	ND	324	ND	ND	ND	7.06	16.9	20.5	ND
Jul-03	ND	124	ND	3.01	ND	335	ND	ND	ND	7.1	22	5.54	ND
Oct-03	ND	125	ND	3.37	ND	258	ND	ND	ND	6.8	20	10.55	ND
Jan-04	ND	128	ND	3.38	ND	302	ND	ND	ND	6.2	16.7	2.74	ND
Apr-04	ND	122	ND	2.74	ND	442	ND	ND	ND	6.9	18.6	2.4	ND
Jul-04	ND	121	ND	3.1	ND	326	ND	ND	ND	7.1	19.7	2.48	ND
Oct-04	ND	111	ND	3.23	ND	312	ND	ND	ND	6.9	20.8	1.42	ND
Jan-05	ND	123	ND	2.92	ND	350	ND	ND	ND	7.2	18.9	1.9	ND
Apr-05	ND	122	ND	2.56	ND	391	ND	ND	ND	7.2	17.9	3.35	ND
Jul-05	ND	134	ND	2.48	ND	344	ND	ND	ND	6.9	20.8	3.7	ND
Oct-05	ND	123	ND	2.43	ND	340	ND	ND	ND	7.2	19.4	1.26	ND
Jan-06	ND	115	ND	2.39	ND	340	ND	ND	ND	6.9	17.8	1.43	ND
May-06	ND	153	ND	2.64	ND	300	ND	ND	ND	7	20.1	5.38	ND
Aug-06	<1.5	121	<1.0	2.16	<1.0	308	<2.5	<0.06	<1.0	7	22.1	4.36	9.52 J
Nov-06	<1.5	133	<1.0	2.42	3.26 J	271	<2.5	<0.06	<1.0	7.4	19.8	1.65	8.04 J
Feb-07	<1.5	137	<1.0	2.61	3.23 J	263	2.54 J	<0.06	<1.0	7.3	17.1	0.83	9.43 J
Apr-07	<1.5	108	<1.0	2.34	<1.0	275	<2.5	<0.06	1.51 J	6.8	19.9	3.84	2.26 J
Aug-07	<1.5	112	<1.0	2.58	1.55 J	289	<2.5	<0.03	<1.0	7	21.1	1.71	12.8 J
Nov-07	<1.5	115	<1.0	2.35	3.92 J	203	<2.5	<0.03	1.55 J	6.8	19.2	3.76	6.56 J
Feb-08	<1.5	115	<1.0	2.47	<2.0	185	<2.5	<0.03	<1.0	6.6	18.4	2.87	5.14 J
Apr-08	<1.5	118	<1.0	2.67	2.04 J	237	<2.5	<0.03	2.74 J	6.9	20.4	9.65	4.73 J
Aug-08	<1.5	98.6 J	<1.0	2.6	3.64 J	229	<2.5	<0.03	<1.0	7.3	21.6	10	11 J
Nov-08	<1.5	102	<1.0	2.38	<2.0	210	<2.5	<0.067	<1.0	6.9	17.7	5.24	6.92 J
Jan-09	<1.5	106	<1.0	2.47	<2.0	194	<2.5	<0.067	<1.0	6.7	13.8	8.84	4.84 J
May-09	<1.5	104	<1.0	2.57	<2.0	234	<2.5	<0.067	<1.0	6.7	21.7	6.93	5.39 J
Jul-09	<1.6	104	<1.0	2.42	1.2 J	239	<3.3	<0.066	<1.5	6.3	21.7	2.29	4.79 J
Oct-09	<1.6	110	<1.0	2.26	1.99 J	200	<3.3	<0.066	<1.5	6.8	19.9	5.88	10.4 J
Jan-10	<1.6	111	<1.0	2.51	1.31 J	200	<3.3	<0.066	<1.5	6.7	16	1.6	21.2
Apr-10	<1.6	111	<1.0	2.63	1.27 J	217	<3.3	<0.066	1.8 J	7.4	20.1	7.37	<3.3
Jul-10	<1.6	105	<1.0	2.45	4.17 J	223	<3.3	<0.066	<1.5	7	21.1	9.31	5.27 J
Nov-10	<1.6	102	<1.0	2.31	4.52 J	223	<3.3	<0.066	<1.5	6.9	19	8.08	<3.3
Feb-11	<1.7	118	<1.0	2.38	<1.0	162	<3.3	<0.066	<1.5	6.8	15.1	10.3	<3.3
May-11	<1.7	112	<1.0	2.6	2.97 J	208	<3.3	<0.066	4.47 J	6.7	17.5	10.1	<3.3
Jul-11	<1.7	108	<1.0	2.52	1.36 J	208	<3.3	<0.066	<1.5	6.8	21.6	11.7	<3.3
Nov-11	<1.7	103	<1.0	2.31	4.71 J	186	<3.3	<0.066	<1.5	6.8	18.7	9.9	<3.3
Mar-12	<4.0	110	<0.6	2.6	<2.1	200	<1.9	<0.053	<10	6.85	19.9	8.74	<4.5
May-12	<4.0	<7.5	<0.6	2.4	<2.1	241	<1.9	<0.053	<10	6.31	19.4	16	<4.5
Aug-12	<4.0	110	<0.6	2.5	<2.1	ND	<1.9	<0.053	<10	6.3	20.8	2.7	<4.5
Nov-12	<4.0	<7.5	<0.6	2.3	<2.1	259	<1.9	<0.053	<10	6.83	20.4	ND	<4.5

Historical Water Quality Data for MW133T

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Feb-13	<4.0	120	<0.6	2.4	<2.1	204	<1.9	<0.015	<10	8	16.8	1.2	<4.5
May-13	<4.0	110	<0.6	2.6	<2.1	212	<1.9	<0.015	<10	6.87	18.8	1.2	<4.5
Jul-13	<4.0	110	<0.6	2.6	<2.1	243	<1.9	<0.015	<10	6.36	25.6	1.5	<4.5
Oct-13	<4.0	120	<0.6	2.6	<2.1	238	<1.9	<0.015	<10	6.51	24	3.2	<4.5
Jan-14	<4.0	110	<0.6	2.5	<2.1	220	<1.9	<0.015	<10	6.75	6.1	7.2	<4.5
Apr-14	<4.0	110	<0.6	2.6	<2.1	206	<1.9	<0.015	<10	6.31	21.7	9.3	<4.5
Jul-14	<4.0	110	<0.6	2.6	<2.1	246	<1.9	<0.015	<10	6.34	25.7	3.1	<4.5
Oct-14	<4.0	120	<0.6	2.3	<2.1	204	<1.9	<0.015	<10	6.53	21.1	5.3	<4.5
Jan-15	<4.0	<7.5	<0.6	4	<2.1	238	<2.1	<0.015	<10	6.94	18.1	61	<4.5
Apr-15	<2.2	120	<0.54	3.3	<0.72	217	<4.7	<0.028	<2.8	6.91	20.6	NA	<2.2
Aug-15	<2.2	120	<0.54	2.4	<0.72	261	<4.7	<0.028	<2.8	6.42	27	9.9	<2.2
Oct-15	<2.2	120	<0.54	2.7	<0.72	226	<4.7	<0.028	<2.8	6.73	20.8	82	<2.2
Feb-16	<2.2	140	<0.54	2.6	<0.72	218	<4.7	<0.028	<2.8	6.57	19.8	180	<2.2
Apr-16	<2.2	120	<0.54	2.5	<0.72	240	<4.7	<0.028	<2.8	6.47	21.8	68	<2.2
Jul-16	<2.2	140	<0.54	2.3	24	180	<4.7	<0.028	<2.8	6.21	26.3	240	<2.2
Oct-16	<2.2	120	<0.54	2.3	<0.72	160	<4.7	<0.028	<2.8	6.38	24.5	31	<2.2
Jan-17	<2.2	130	<0.54	2.4	<0.72	130	<4.7	<0.028	<2.8	6.11	20.9	71	<2.2
Apr-17	<2.5	120	<0.6	2.5	<1.3	179	<4.7	<0.028	<5	6.75	25.7	54	<2.5
Jul-17	<2.5	110	<0.6	2.5	10	130	<4.7	<0.091	<5	6.14	22.8	23	<2.5

Notes:
Data is presented in units of µg/L unless otherwise noted
ND = Non-detect NA = Parameter Not Analyzed
J = Indicates value is between the method detection limit and practical quantitation limit and is an estimated concentration
Value following "<" represents the method detection limit

Historical Water Quality Data for MW134T

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Mar-02	ND	162	ND	2.36	ND	310	ND	ND	ND	6.86	18.6	13.4	ND
Apr-02	ND	171	ND	2.65	ND	206	ND	ND	ND	7.18	20	33	ND
Jul-02	ND	167	ND	2.4	ND	243	ND	ND	ND	6.93	20	12.8	ND
Oct-02	ND	157	ND	2.52	ND	246	ND	ND	ND	7.09	19.5	19.1	ND
Jan-03	ND	136	ND	2.39	ND	239	ND	ND	ND	7.6	17.2	16	ND
Apr-03	ND	148	ND	2.49	ND	207	ND	ND	ND	7.43	17.8	2.43	ND
Jul-03	ND	163	ND	2.55	ND	217	ND	ND	ND	7.25	20.3	11.5	ND
Oct-03	ND	152	ND	2.49	ND	186	ND	ND	ND	7.41	20	5.76	ND
Jan-04	ND	153	ND	2.47	ND	247	ND	ND	ND	6.4	18.9	8.5	ND
Apr-04	ND	156	ND	2.49	ND	249	ND	ND	ND	7.8	18.9	14	ND
Jul-04	ND	185	ND	2.49	ND	240	ND	ND	ND	7.6	20.6	9.25	ND
Oct-04	ND	158	ND	2.53	ND	231	ND	ND	ND	7.1	20.3	5.93	ND
Jan-05	ND	328	ND	2.51	ND	237	ND	ND	ND	7.1	19.6	76	ND
Apr-05	ND	156	ND	2.37	ND	270	ND	ND	ND	7.9	19.1	8.34	ND
Jul-05	ND	270	ND	2.42	ND	211	ND	ND	ND	7	23.3	5.41	ND
Oct-05	ND	163	ND	2.5	ND	224	ND	ND	ND	6.8	19	2.18	ND
Jan-06	ND	156	ND	2.55	ND	219	ND	ND	ND	6.9	17.3	4.1	ND
May-06	ND	ND	ND	3.18	ND	238	ND	ND	ND	7.1	20.7	4.88	ND
Aug-06	<1.5	89.7 J	<1.0	2.94	1.12 J	224	<2.5	<0.06	<1.0	7.5	24	2.65	7.52 J
Nov-06	<1.5	99.7 J	<1.0	2.9	3.31 J	218	<2.5	<0.06	<1.0	7.6	22.4	1.9	8.28 J
Feb-07	2.10 J	129	<1.0	2.66	<1.0	263	<2.5	0.114 J	<1.0	6.8	18.1	6.31	8.65 J
Apr-07	1.84 J	135	<1.0	2.6	<1.0	303	<2.5	<0.06	<1.0	7.3	19.8	5.19	<2.0
Aug-07	<1.5	127	<1.0	3.67	5.35 J	369	<2.5	<0.03	<1.0	7.3	21.5	1.03	12.1 J
Nov-07	2.61 J	128	<1.0	2.66	<1.0	301	<2.5	<0.03	<1.0	7	18.8	7.59	3.63 J
Feb-08	<1.5	90.4 J	<1.0	2.53	<2.0	307	<2.5	<0.03	<1.0	7.1	18.4	3.17	5.28 J
Apr-08	<1.5	81.4 J	<1.0	3.87	4.46 J	269	<2.5	<0.03	1.4 J	7.3	21.4	12.3	3.12 J
Aug-08	<1.5	100	<1.0	2.66	<2.0	363	<2.5	<0.03	<1.0	7.3	21.3	10.7	13.1 J
Nov-08	<1.5	92.3 J	<1.0	2.69	<2.0	330	<2.5	<0.067	<1.0	7.3	19.4	6.46	10.1 J
Jan-09	<1.5	108	<1.0	2.57	<2.0	356	<2.5	<0.067	<1.0	7	18.9	10.1	3.76 J
May-09	<1.5	76.8 J	<1.0	2.53	<2.0	349	<2.5	<0.067	<1.0	6.9	21.5	8.85	7.09 J
Jul-09	<1.6	73.3 J	<1.0	2.44	<1.0	366	<3.3	<0.066	<1.5	6.9	22.9	4.19	5.87 J
Oct-09	2.07 J	75 J	<1.0	2.36	<1.0	328	<3.3	<0.066	<1.5	7	19	5.81	11.3 J
Jan-10	<1.6	74.1 J	<1.0	2.48	1.09 J	284	<3.3	<0.066	<1.5	7.1	17.1	4.32	25.9
Apr-10	<1.6	80.4 J	<1.0	2.61	1.14 J	300	<3.3	<0.066	2 J	7	19.3	9.1	10.5 J
Jul-10	<1.6	76.4 J	<1.0	2.7	<1.0	347	<3.3	<0.066	<1.5	7.4	21.7	10	6.06 J
Dec-10	<1.6	126	<1.0	2.52	<1.0	245	<3.3	<0.066	1.99 J	7	16.4	6.36	11.2
Feb-11	<1.7	84.8 J	1.16 J	2.72	<1.0	255	<3.3	<0.066	<1.5	7.1	13.3	10.1	19.5 J
May-11	<1.7	83.2 J	<1.0	2.69	<1.0	285	<3.3	<0.066	1.57 J	6.9	17.6	11.4	<3.3
Jul-11	<1.7	77.6 J	<1.0	2.65	1.3 J	349	<3.3	<0.066	<1.5	7.3	21.4	13.4	5.21 J
Nov-11	<1.7	77.2 J	<1.0	2.65	<1.0	269	<3.3	<0.066	<1.5	7	18.7	10.9	<3.3
Mar-12	<4.0	<7.5	<0.6	2.9	<2.1	318	<1.9	<0.053	<10	7.07	20.6	10.2	<4.5
May-12	<4.0	<7.5	<0.6	2.6	<2.1	275	<1.9	<0.053	<10	6.85	23.2	18	<4.5
Aug-12	<4.0	<7.5	<0.6	2.7	<2.1	ND	<1.9	<0.053	<10	6.93	21.2	1.8	<4.5
Oct-12	<4.0	<7.5	<0.6	2.5	<2.1	315	<1.9	<0.053	<10	6.82	20.1	1.2	<4.5

Historical Water Quality Data for MW134T

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Feb-13	<4.0	<7.5	<0.6	**2.6**	<2.1	**238**	<1.9	<0.015	<10	**7.09**	**17.4**	**3**	<4.5
May-13	<4.0	<7.5	<0.6	**2.8**	<2.1	**273**	<1.9	<0.015	<10	**6.7**	**20.9**	**3.1**	<4.5
Jul-13	<4.0	<7.5	<0.6	**2.8**	<2.1	**358**	<1.9	<0.015	<10	**7.08**	**25.4**	**2.1**	<4.5
Oct-13	<4.0	<7.5	<0.6	**2.9**	<2.1	**316**	<1.9	<0.015	<10	**6.88**	**24.7**	**5**	<4.5
Jan-14	<4.0	<7.5	<0.6	**2.6**	<2.1	**219**	<1.9	<0.015	<10	**6.75**	**15.8**	**3.3**	<4.5
Apr-14	<4.0	<7.5	<0.6	**2.8**	<2.1	**264**	<1.9	<0.015	<10	**6.84**	**21.1**	**4.3**	<4.5
Jul-14	<4.0	<7.5	<0.6	**3.1**	<2.1	**396**	<1.9	<0.015	<10	**7.04**	**31.3**	**3.6**	<4.5
Oct-14	<4.0	<7.5	<0.6	**2.7**	<2.1	**312**	<1.9	<0.015	<10	**6.89**	**19.8**	**9.7**	<4.5
Jan-15	<4.0	<7.5	<0.6	**2.8**	<2.1	**277**	<2.1	<0.015	<10	**7.02**	**17.4**	**7.9**	<4.5
Apr-15	<2.2	<1.9	<0.54	**2.9**	<0.72	**250**	<4.7	<0.028	<2.8	**6.77**	**17**	**8.3**	<2.2
Aug-15	<2.2	<1.9	<0.54	**2.7**	<0.72	**327**	<4.7	<0.028	<2.8	**6.88**	**25.1**	**6.3**	<2.2
Oct-15	<2.2	<1.9	<0.54	**3.1**	<0.72	**276**	<4.7	<0.028	<2.8	**6.95**	**24.3**	**6**	<2.2
Feb-16	<2.2	**190**	<0.54	**2.7**	<0.72	**260**	<4.7	<0.028	<2.8	**6.7**	**20.2**	**9.1**	<2.2
Apr-16	<2.2	<1.9	<0.54	**2.8**	<0.72	**360**	<4.7	<0.028	<2.8	**7.09**	**24.4**	**5.2**	<2.2
Aug-16	<2.2	**260**	<0.54	**2.8**	<0.72	**220**	<4.7	<0.028	<2.8	**7.17**	**21.8**	**3.8**	<2.2
Oct-16	<2.2	**110**	<0.54	**2.7**	<0.72	**190**	<4.7	<0.028	<2.8	**6.87**	**28.1**	**6.5**	<2.2
Jan-17	<2.2	<1.9	<0.54	**2.8**	<0.72	**140**	<4.7	<0.028	<2.8	**6.85**	**17.9**	**5.8**	<2.2
Apr-17	<2.5	**97**	<0.6	**2.7**	<1.3	**298**	<4.7	<0.028	<5	**6.9**	**21.2**	**9.4**	<2.5
Jul-17	<2.5	**160**	<0.6	**2.7**	<1.3	**170**	<4.7	<0.091	<5	**6.75**	**22.3**	**2.7**	<2.5

Notes:
Data is presented in units of µg/L unless otherwise noted
ND = Non-detect
J = Indicates value is between the method detection limit and practical quantitation limit and is an estimated concentration
Value following "<" represents the method detection limit

Historical Water Quality Data for MW142T

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Mar-15	<2.2	<1.9	<0.54	**2.7**	<0.72	**193**	<4.7	<0.028	<2.8	**6.5**	**18**	**22**	<2.2
May-15	<2.2	<1.9	<0.54	**2.6**	<0.72	**293**	<4.7	<0.028	<2.8	**6.73**	**22.1**	**15**	<2.2
Aug-15	<2.2	<1.9	<0.54	**2**	<0.72	**194**	<4.7	<0.028	<2.8	**6.23**	**23.6**	**16**	<2.2
Nov-15	<2.2	<1.9	<0.54	<0.033	<0.72	**194**	<4.7	<0.028	<2.8	**6.02**	**20.6**	**5**	<2.2
Feb-16	<2.2	<1.9	<0.54	<0.033	<0.72	**179**	<4.7	<0.028	<2.8	**6.59**	**14.9**	**26**	<2.2
Apr-16	<2.2	<1.9	<0.54	<0.033	<0.72	**200**	<4.7	<0.028	<2.8	**6.13**	**21.6**	**21**	<2.2
Aug-16	<2.2	<1.9	<0.54	<0.033	<0.72	**140**	<4.7	<0.028	<2.8	**6.27**	**22.9**	**12**	**21**
Oct-16	<2.2	<1.9	<0.54	<0.2	<0.72	**130**	<4.7	<0.028	<2.8	**5.97**	**23.1**	**4.1**	<2.2
Feb-17	<2.2	<1.9	<0.54	<0.2	<0.72	**110**	<4.7	<0.028	<2.8	**5.75**	**16.5**	**11**	<2.2
Apr-17	<2.5	**75**	<0.6	<0.2	<1.3	**153**	<4.7	<0.028	<5	**6.61**	**22.6**	**15**	<2.5
Jul-17	<2.5	**59**	<0.6	<0.2	<1.3	**120**	<4.7	<0.091	<5	**5.85**	**24**	**5.4**	<2.5

Notes:
Data is presented in units of µg/L unless otherwise noted
Value following "<" represents the method detection limit

Historical Water Quality Data for MW143T

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Mar-15	<2.2	<1.9	<0.54	**2.1**	<0.72	**175**	<4.7	<0.028	<2.8	**6.52**	**20.4**	**9.2**	<2.2
May-15	<2.2	<1.9	<0.54	<0.11	<0.72	**173**	<4.7	<0.028	<2.8	**7.13**	**21.3**	**3.5**	<2.2
Aug-15	<2.2	<1.9	<0.54	<0.11	<0.72	**190**	<4.7	<0.028	<2.8	**6.48**	**25.9**	**3.3**	<2.2
Nov-15	<2.2	<1.9	<0.54	**3.8**	<0.72	**234**	<4.7	<0.028	<2.8	**6.28**	**21.9**	**7.8**	<2.2
Feb-16	<2.2	<1.9	<0.54	<0.033	<0.72	**189**	<4.7	<0.028	<2.8	**6.62**	**15**	**1.7**	<2.2
Aug-16	<2.2	<1.9	<0.54	<0.033	<0.72	**160**	<4.7	<0.028	<2.8	**6.67**	**24**	**6.1**	<2.2
Oct-16	<2.2	<1.9	<0.54	<0.2	<0.72	**130**	<4.7	<0.028	<2.8	**6.16**	**26.3**	**6.1**	<2.2
Feb-17	<2.2	<1.9	<0.54	<0.2	<0.72	**110**	<4.7	<0.028	<2.8	**6.17**	**15.1**	**4.8**	<2.2
Apr-17	<2.5	**70**	<0.6	<0.2	<1.3	**145**	<4.7	<0.028	<5	**6.75**	**19.4**	**7.5**	<2.5
Jul-17	<2.5	**81**	<0.6	<0.2	<1.3	**120**	<4.7	<0.091	<5	**6.01**	**24.6**	**3.4**	<2.5

Notes:
Data is presented in units of µg/L unless otherwise noted
Value following "<" represents the method detection limit

Historical Water Quality Data for MW144T

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Mar-15	<2.2	170	<0.54	2.6	<0.72	200	<4.7	<0.028	<2.8	7.03	14.8	25	<2.2
May-15	<2.2	210	<0.54	2.4	<0.72	173	<4.7	<0.028	<2.8	6.87	21.5	14	<2.2
Aug-15	<2.2	220	<0.54	2.2	<0.72	186	<4.7	<0.028	<2.8	6.24	25.7	14	<2.2
Nov-15	<2.2	210	<0.54	2.3	<0.72	194	<4.7	<0.028	<2.8	6.74	20.8	2.9	<2.2
Feb-16	<2.2	220	<0.54	2	<0.72	182	<4.7	<0.028	<2.8	6.35	14.3	4.9	<2.2
Aug-16	<2.2	210	<0.54	2.3	<0.72	140	<4.7	<0.028	<2.8	6.32	21.2	11	<2.2
Oct-16	<2.2	190	<0.54	<0.2	<0.72	130	<4.7	<0.028	<2.8	6.42	23.1	4.3	<2.2
Feb-17	<2.2	220	<0.54	2.3	<0.72	120	<4.7	<0.028	<2.8	6.01	16.4	10	<2.2
Apr-17	<2.5	210	<0.6	2.3	<1.3	144	<4.7	<0.028	<5	6.79	19.5	8.6	<2.5
Jul-17	<2.5	210	<0.6	2.1	<1.3	110	<4.7	<0.091	<5	6.97	22.2	11	<2.5

Notes:
Data is presented in units of µg/L unless otherwise noted
Value following "<" represents the method detection limit

Historical Water Quality Data for PSDL021

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Jul-94	ND	102	ND	ND	ND	266	ND	ND	ND	7.57	21.8	18.7	ND
Jan-95	ND	108	ND	ND	ND	191	ND	ND	ND	8.07	16.1	22.9	ND
Jul-95	ND	104	ND	ND	ND	187	ND	ND	ND	6.85	22.9	6.92	ND
Jan-96	ND	120	ND	ND	ND	193	ND	ND	ND	6.97	18	10.9	ND
Jul-96	ND	133	ND	ND	ND	230	ND	ND	ND	7.05	19.5	10.8	ND
Jan-97	ND	117	ND	ND	ND	228	ND	ND	ND	6.28	18.3	6	ND
Jul-97	ND	141	ND	ND	ND	210	ND	ND	ND	6.55	20.2	10.4	ND
Jan-98	ND	138	ND	ND	ND	197	ND	ND	ND	6.75	19.1	2.72	ND
Jul-98	ND	126	ND	ND	ND	243	ND	ND	ND	7.25	20.1	3.89	ND
Jan-99	ND	146	ND	ND	ND	244	ND	ND	ND	6.51	18	3.8	ND
Jul-99	ND	182	ND	1.41	ND	244	ND	ND	ND	6.47	20.5	9	ND
Jan-00	ND	ND	ND	ND	ND	218	ND	ND	ND	6.74	19.1	0.86	ND
Jul-00	ND	ND	ND	ND	ND	268	ND	ND	ND	6.69	20.2	7.04	ND
Jan-01	ND	164	ND	ND	ND	299	ND	ND	ND	6.62	18.3	14.97	ND
Jul-01	ND	150	ND	ND	ND	241	ND	ND	ND	6.72	20	8.57	ND
Jan-02	ND	139	ND	ND	ND	320	ND	ND	ND	6.55	16.8	14.55	ND
Jul-02	ND	127	ND	ND	ND	217	ND	ND	ND	6.75	20	6.1	ND
Jan-03	ND	108	ND	ND	ND	249	ND	ND	ND	6.86	18.4	8.26	ND
Jul-03	ND	ND	ND	ND	ND	249	ND	ND	ND	7.09	20.2	20.2	ND
Jan-04	ND	138	ND	ND	ND	251	ND	ND	ND	6.7	17.2	5.25	ND
Apr-04	ND	120	ND	ND	ND	235	ND	ND	ND	7.6	19	10.55	ND
Jul-04	ND	147	ND	ND	ND	268	ND	ND	ND	7	20	20.2	ND
Oct-04	ND	143	ND	ND	ND	243	ND	ND	ND	6.9	21.3	4.81	ND
Jan-05	ND	128	ND	ND	ND	209	ND	ND	ND	6.8	19.9	7.34	ND
Apr-05	ND	117	ND	ND	ND	209	ND	ND	ND	7.3	19.7	14.3	ND
Jul-05	ND	159	ND	ND	ND	217	ND	ND	ND	6.9	20.7	67	ND
Oct-05	ND	134	ND	ND	ND	196	ND	ND	ND	6.6	18.6	3.77	ND
Jan-06	ND	116	ND	ND	ND	199	ND	ND	ND	6.8	18.5	3.96	ND
May-06	ND	118	ND	ND	ND	214	ND	ND	ND	7.6	20.5	10.2	ND
Aug-06	<1.5	129	<1.0	1.42 J	<1.0	250	<2.5	<0.06	<1.0	7.3	23.8	6.07	9.54 J
Nov-06	<1.5	130	<1.0	1.63 J	<1.0	218	<2.5	<0.06	<1.0	7.7	21.9	2.39	7.81 J
Jan-07	<1.5	111	<1.0	2.15	<1.0	235	<2.5	0.105 J	<1.0	7.8	15.1	1.34	3.38 J
Apr-07	<1.5	127	<1.0	1.49 J	<1.0	186	<2.5	<0.06	<1.0	7.1	20.1	6.14	2.45 J
Aug-07	<1.5	126	<1.0	1.44 J	<1.0	236	<2.5	<0.03	<1.0	6.9	21.8	2.12	7.83 J
Nov-07	<1.5	124	<1.0	1.41 J	<1.0	206	<2.5	<0.03	<1.0	7.2	19.5	3.24	4.31 J
Feb-08	<1.5	116	<1.0	1.64 J	<2.0	165	<2.5	0.0951 J	<1.0	7	18.2	4.19	4.15 J
Apr-08	<1.5	114	<1.0	2.21	<2.0	168.6	<2.5	<0.03	<1.0	7.3	19.5	22.8	5.5 J
Jul-08	<1.5	166	<1.0	1.52 J	<2.0	187	<2.5	<0.03	<1.0	7	20.9	15.7	8.57 J
Nov-08	<1.5	118	<1.0	1.41 J	<2.0	185	<2.5	<0.067	<1.0	7.3	17.7	18.9	6.67 J
Jan-09	<1.5	139	<1.0	1.41 J	<2.0	173	<2.5	<0.067	<1.0	7.5	16.6	18.6	7.76 J
Apr-09	<1.5	110	<1.0	1.44 J	<2.0	173	<2.5	<0.067	<1.0	7.3	21.2	9.97	8.12 J
Jul-09	<1.6	138	<1.0	1.39 J	1.56 J	208	<3.3	<0.066	<1.5	6.8	21.6	6.36	8.14 J
Oct-09	<1.6	115	<1.0	1.39 J	<1.0	169	<3.3	<0.066	<1.5	6.7	17.9	3.45	11.8 J
Jan-10	<1.6	60.9 J	<1.0	3.21	<1.0	132	<3.3	<0.066	<1.5	7.7	18.7	14.3	22.1

Historical Water Quality Data for PSDL021

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Apr-10	2.59 J	17.9 J	<1.0	2.19	<1.0	218	<3.3	<0.066	<1.5	8.5	18.7	7.98	<3.3
Jul-10	<1.6	56.8 J	<1.0	1.54 J	<1.0	174	<3.3	<0.066	<1.5	8.2	21.2	8.18	5.32 J
Nov-10	<1.6	139	<1.0	1.51 J	<1.0	219	<3.3	<0.066	<1.5	7.2	18.2	11.2	<3.3
Feb-11	<1.7	135	1.3 J	1.49 J	<1.0	213	<3.3	<0.066	<1.5	7.3	18.9	7.98	10.7 J
May-11	1.7 J	155	<1.0	1.6 J	<1.0	217	<3.3	<0.066	2.06 J	7.3	19.5	12	5.19 J
Jul-11	<1.7	111	<1.0	1.56 J	<1.0	181	<3.3	<0.066	<1.5	7.5	21.5	11	<3.3
Nov-11	<1.7	101	<1.0	1.43 J	<1.0	196	<3.3	<0.066	<1.5	7	20.4	17.5	<3.3
Feb-12	<4.0	<7.5	<0.6	<0.11	<2.1	182	<1.9	<0.053	<10	7.21	19.8	9.88	<4.5
May-12	<4.0	<7.5	<0.6	<0.11	<2.1	201	<1.9	<0.053	<10	6.93	22.7	7.8	<4.5
Aug-12	<4.0	<7.5	<0.6	<0.11	<2.1	ND	<1.9	<0.053	<10	7.02	20.1	5.1	<4.5
Oct-12	<4.0	<7.5	<0.6	<0.11	<2.1	201	<1.9	<0.053	<10	6.81	20	ND	<4.5
Feb-13	<4.0	<7.5	<0.6	<0.11	<2.1	203	<1.9	<0.015	<10	6.47	20.3	1.8	<4.5
May-13	<4.0	<7.5	<0.6	2	<2.1	180	<1.9	<0.015	<10	7.1	20.2	1.4	<4.5
Jul-13	<4.0	<7.5	<0.6	<0.11	<2.1	174	<1.9	<0.015	<10	6.51	21	3.5	<4.5
Oct-13	<4.0	<7.5	<0.6	<0.11	<2.1	183	<1.9	<0.015	<10	6.73	21	19	<4.5
Jan-14	<4.0	<7.5	<0.6	<0.11	<2.1	195	<1.9	<0.015	<10	7.01	12.1	7.4	<4.5
Apr-14	<4.0	<7.5	<0.6	2.5	<2.1	157	<1.9	<0.015	<10	10	15.7	2.6	<4.5
Jul-14	<4.0	<7.5	<0.6	<0.11	<2.1	240	<1.9	<0.015	<10	7.36	22.9	9.9	<4.5
Oct-14	<4.0	110	<0.6	<0.11	<2.1	201	<1.9	<0.015	<10	6.82	21.4	4.8	<4.5
Jan-15	<4.0	<7.5	<0.6	<0.11	<2.1	175	<2.1	<0.015	<10	7.1	15.5	5.8	<4.5
Apr-15	<2.2	110	<0.54	<0.11	<0.72	186	<4.7	<0.028	<2.8	6.73	19.3	3.3	<2.2
Aug-15	<2.2	100	<0.54	<0.11	<0.72	223	<4.7	<0.028	<2.8	6.91	24.3	6.5	<2.2
Oct-15	<2.2	<1.9	<0.54	<0.033	<0.72	218	<4.7	<0.028	<2.8	6.86	17.9	10	<2.2
Jan-16	<2.2	<1.9	<0.54	<0.033	<0.72	187	<4.7	<0.028	<2.8	6.92	18.7	4.3	<2.2
Jul-16	<2.2	<1.9	<0.54	<0.033	<0.72	160	<4.7	<0.028	<2.8	6.21	31.7	3.5	<2.2
Oct-16	<2.2	110	<0.54	2	<0.72	130	<4.7	<0.028	<2.8	6.5	24.6	5.9	<2.2
Jan-17	<2.2	100	<0.54	<0.2	<0.72	120	<4.7	<0.028	<2.8	6.3	19.1	4.5	<2.2
Apr-17	<2.5	100	<0.6	<0.2	<1.3	130	<4.7	<0.028	<5	6.41	21.7	5.2	<2.5
Jul-17	<2.5	100	<0.6	<0.2	<1.3	120	<4.7	<0.091	<5	5.94	22	8.7	<2.5

Notes:
Data is presented in units of µg/L unless otherwise noted
ND = Non-detect
J = Indicates value is between the method detection limit and practical quantitation limit and is an estimated concentration
Value following "<" represents the method detection limit

Historical Water Quality Data for SL001

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Jul-94	ND	ND	ND	7.2	ND	432	ND	ND	ND	6.16	22.5	30	ND
Jan-95	ND	ND	ND	7.63	ND	458	ND	ND	ND	6.88	13.5	24.4	ND
Jul-95	ND	ND	ND	8.37	ND	428	ND	ND	ND	6.42	23.1	15.2	ND
Jan-96	ND	ND	ND	8.37	ND	387	ND	ND	ND	6.27	16.5	7.52	ND
Jul-96	ND	ND	ND	9.06	ND	416	ND	ND	ND	6.4	20.2	6.5	ND
Jan-97	ND	ND	ND	8.53	ND	479	ND	ND	ND	6.12	18	14.3	ND
Jul-97	ND	ND	ND	9.99	ND	385	ND	ND	ND	5.9	20.3	4.98	ND
Jan-98	ND	ND	ND	8.69	ND	414	ND	ND	ND	6.4	19.5	14.4	ND
Jul-98	ND	ND	ND	8.93	ND	452	ND	ND	ND	6.08	20	5.43	ND
Jan-99	ND	ND	ND	8.34	ND	401	ND	ND	ND	5.78	18.4	22	ND
Jul-99	ND	ND	ND	9.12	ND	450	ND	ND	ND	5.9	19.9	5.25	ND
Jan-00	ND	ND	ND	7.24	ND	342	ND	ND	ND	5.82	18.7	13.25	ND
Jul-00	ND	ND	ND	7.84	ND	447	ND	ND	ND	612	20.4	10.77	73.2
Jan-01	ND	ND	ND	8.32	ND	388	ND	ND	ND	6.1	17.9	3.01	ND
Jul-01	ND	ND	ND	8.09	ND	426	ND	ND	ND	6.15	20	7.45	ND
Jan-02	ND	ND	ND	8.15	ND	372	ND	ND	ND	5.83	16.8	11.77	ND
Jul-02	ND	ND	ND	8.15	ND	422	ND	ND	ND	6.15	21.2	4.74	ND
Jan-03	ND	ND	ND	8.57	ND	411	ND	ND	ND	5.98	17.9	2.36	ND
Jul-03	ND	ND	ND	8.59	ND	410	ND	ND	ND	6.82	21.3	3.47	ND
Jan-04	ND	ND	ND	8.43	ND	389	ND	ND	ND	6.2	17.2	3.75	ND
Apr-04	ND	ND	ND	8.78	ND	378	ND	ND	ND	5.8	18.3	24	ND
Jul-04	ND	ND	ND	9.11	ND	415	ND	ND	ND	6.4	20.8	3.82	ND
Oct-04	ND	ND	ND	8.8	ND	405	ND	ND	ND	6.2	20.4	3.68	ND
Jan-05	ND	ND	ND	8.27	ND	386	ND	ND	ND	6.2	19.3	2.9	ND
Apr-05	ND	ND	ND	8.41	ND	391	ND	ND	ND	6.2	20.5	7.15	ND
Jul-05	ND	ND	ND	8.52	ND	394	ND	ND	ND	6.3	20.6	1.35	ND
Oct-05	ND	ND	ND	8.81	ND	396	ND	ND	ND	6.5	19.1	1.93	ND
Jan-06	ND	ND	ND	8.55	ND	368	ND	ND	ND	6.2	18.7	1.17	ND
May-06	ND	ND	ND	8.68	ND	398	ND	ND	ND	6.3	22	12.55	ND
Aug-06	<1.5	20.1 J	<1.0	8.34	10.6 J	376	<2.5	<0.06	4.71 J	6.2	23	3.43	10.2 J
Nov-06	<1.5	20.9 J	<1.0	8.58	17.7 J	320	<2.5	<0.06	4.87 J	6.7	21.7	3.4	9.37 J
Jan-07	<1.5	21.6 J	<1.0	9.14	5.95 J	387	<2.5	0.109 J	11 J	6.4	15.1	3.59	6.79 J
Apr-07	<1.5	21 J	<1.0	9.09	<1.0	350	<2.5	<0.06	13.8 J	6.3	20.6	2.72	5.47 J
Aug-07	<1.5	22.5 J	<1.0	9	17.6 J	401	<2.5	<0.03	4.47 J	6.3	21.5	1.5	11.3 J
Nov-07	<1.5	30.9 J	<1.0	8.79	4.48 J	316	<2.5	<0.03	32.4 J	6.6	20.1	12.6	11.9 J
Feb-08	<1.5	24.8 J	<1.0	8.57	7.31 J	300	<2.5	0.13 J	10.6 J	6.4	18.4	5.06	9.17 J
Apr-08	<1.5	24.7 J	<1.0	9.44	<2.0	323	<2.5	<0.03	9.26 J	6.4	20	20.3	6.57 J
Jul-08	<1.5	22.3 J	<1.0	9.18	20.8	355	<2.5	<0.03	6.22 J	6.5	22	8.87	6.56 J
Nov-08	<1.5	22.8 J	<1.0	9.34	8.16 J	368	<2.5	<0.067	5.17 J	6.7	18.5	10.7	11 J
Jan-09	<1.5	20.2 J	<1.0	8.86	<2.0	343	<2.5	<0.067	18.8 J	7.3	16.7	12.4	7.01 J
Apr-09	<1.5	22 J	<1.0	9.27	<2.0	366	<2.5	<0.067	9.42 J	6.4	20.3	10.9	11.3 J
Jul-09	<1.6	32.8 J	<1.0	9.09	12.5 J	413	<3.3	<0.066	13.2 J	6.3	22.3	6.91	23.1
Oct-09	<1.6	20 J	<1.0	8.75	4.95 J	356	<3.3	<0.066	7.34 J	6.5	17.8	3.98	24.8
Jan-10	<1.6	29.5 J	<1.0	8.73	19.8 J	335	<3.3	<0.066	32.8 J	6.4	17.8	16.2	83.7

Historical Water Quality Data for SL001

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
May-10	<1.6	20.9 J	<1.0	9.32	3.4 J	342	<3.3	<0.066	10 J	6.5	19.2	9.19	23.3
Jul-10	<1.6	20.3 J	<1.0	9.75	5.71 J	381	<3.3	<0.066	3.76 J	6.8	22	12.6	11 J
Nov-10	<1.6	20.7 J	<1.0	9.34	14 J	341	<3.3	<0.066	7.54 J	6.6	18.4	10.6	14.4 J
Feb-11	<1.7	21.2 J	1.1 J	9.66	9.17 J	335	<3.3	<0.066	3.8 J	6.5	18.4	9.2	22.2
May-11	<1.7	25.2 J	<1.0	9.25	17.9 J	324	<3.3	<0.066	10.9 J	6.5	18.5	9.5	24.7
Jul-11	<1.7	19.8 J	<1.0	9.3	4.51 J	355	<3.3	<0.066	6.37 J	6.5	20.9	13.4	5.65 J
Nov-11	<1.7	26.7 J	<1.0	9.11	12.2 J	358	<3.3	<0.066	10.7 J	6.4	19.6	17.3	15.9 J
Feb-12	<4.0	<7.5	<0.6	10	<2.1	355	<1.9	<0.053	<10	6.29	20.6	8.08	<4.5
May-12	<4.0	<7.5	<0.6	10	<2.1	384	<1.9	<0.053	<10	6.18	20.5	9.7	<4.5
Aug-12	<4.0	<7.5	<0.6	10	<2.1	ND	<1.9	<0.053	<10	6.43	16.5	7.8	<4.5
Oct-12	<4.0	<7.5	<0.6	9.8	<2.1	400	<1.9	<0.053	<10	6.67	18	33	<4.5
Feb-13	<4.0	<7.5	<0.6	10	<2.1	380	<1.9	<0.015	<10	6.41	20.2	4.7	<4.5
May-13	<4.0	<7.5	<0.6	10	<2.1	385	<1.9	<0.015	<10	6.7	19.9	4.4	<4.5
Jul-13	<4.0	<7.5	<0.6	10	<2.1	397	<1.9	<0.015	<10	6.62	22.4	2.1	<4.5
Oct-13	<4.0	<7.5	<0.6	11	41	401	<1.9	<0.015	<10	6.37	24	5.9	47
Jan-14	<4.0	<7.5	<0.6	10	<2.1	408	<1.9	<0.015	<10	6.49	10.3	7.7	<4.5
Apr-14	<4.0	<7.5	<0.6	10	<2.1	390	<1.9	<0.015	<10	6.52	23.3	8.9	<4.5
Jul-14	<4.0	<7.5	<0.6	11	<2.1	460	<1.9	<0.015	<10	6.5	24	25	<4.5
Oct-14	<4.0	<7.5	<0.6	10	<2.1	419	<1.9	<0.015	<10	6.38	20.2	12	<4.5
Jan-15	<4.0	<7.5	<0.6	11	<2.1	330	<2.1	<0.015	<10	6.56	15.3	4.6	<4.5
Apr-15	<2.2	<1.9	<0.54	11	<0.72	395	<4.7	<0.028	<2.8	6.08	21.4	66	<2.2
Aug-15	<2.2	<1.9	<0.54	10	<0.72	406	<4.7	<0.028	<2.8	6.15	23.4	6.1	<2.2
Oct-15	<2.2	<1.9	<0.54	10	<0.72	393	<4.7	<0.028	<2.8	6.5	18.36	9	<2.2
Jan-16	<2.2	<1.9	<0.54	10	<0.72	369	<4.7	<0.028	<2.8	6.39	19	26	<2.2
Jul-16	<2.2	<1.9	<0.54	11	<0.72	220	<4.7	<0.028	<2.8	5.58	24.9	3	<2.2
Oct-16	<2.2	<1.9	<0.54	11	<0.72	220	<4.7	<0.028	<2.8	6.31	23.3	6.1	<2.2
Jan-17	<2.2	<1.9	<0.54	11	<0.72	150	<4.7	<0.028	<2.8	5.92	20.1	3.7	<2.2
Apr-17	<2.5	<3.1	<0.6	11	<1.3	200	<4.7	<0.028	<5	6.14	23.4	3.8	<2.5
Jul-17	<2.5	25	<0.6	11	<1.3	170	<4.7	<0.091	<5	6.03	24	2.6	<2.5

Notes:
Data is presented in units of µg/L unless otherwise noted
ND = Non-detect
J = Indicates value is between the method detection limit and practical quantitation limit and is an estimated concentration
Value following "<" represents the method detection limit

Historical Water Quality Data for SL002

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Apr-94	ND	ND	ND	2	ND	483	ND	ND	ND	6.91	19.4	16.4	ND
Jul-94	ND	ND	ND	4.24	ND	497	ND	ND	ND	7.23	21	14.5	ND
Jan-95	ND	ND	ND	4.34	ND	462	ND	ND	ND	6.48	15.8	18	ND
Jul-95	ND	ND	ND	5.49	ND	338	ND	ND	ND	6.69	23.7	14	ND
Jan-96	ND	ND	ND	5.29	ND	446	ND	ND	ND	6.45	16.8	24.1	ND
Jul-96	ND	ND	ND	4.59	ND	495	ND	ND	ND	7.07	19.7	25.8	ND
Jan-97	ND	ND	ND	4.55	ND	545	ND	ND	ND	5.98	17.2	16.1	ND
Jul-97	ND	ND	ND	6.14	ND	437	ND	ND	ND	6.09	20.4	13.1	ND
Jan-98	ND	ND	ND	5.33	ND	434	ND	ND	ND	6.26	19.3	5.63	ND
Jul-98	ND	ND	ND	4.47	ND	539	ND	ND	ND	6.11	19.5	9.56	ND
Jan-99	ND	ND	ND	4.86	ND	457	ND	ND	ND	6	18.2	7.86	ND
Jul-99	ND	ND	ND	5.24	ND	532	ND	ND	ND	6.1	19.8	15.6	ND
Jan-00	ND	ND	ND	4.4	ND	419	ND	ND	ND	6	18.5	4.73	ND
Jul-00	ND	ND	ND	4.78	ND	523	ND	ND	ND	6	20.5	1.5	ND
Jan-01	ND	ND	ND	4.59	ND	466	ND	ND	ND	6.09	18.1	28.2	ND
Jul-01	ND	ND	ND	4.69	ND	524	ND	ND	ND	6.15	20	5.45	ND
Jan-02	ND	ND	ND	4.55	ND	465	ND	ND	ND	5.82	16.7	27.8	ND
Jul-02	ND	ND	ND	4.72	ND	519	ND	ND	ND	6.16	20.6	3.1	ND
Jan-03	ND	ND	ND	4.89	ND	535	ND	ND	ND	6.19	17.5	9.8	ND
Jul-03	ND	ND	ND	4.91	ND	500	ND	ND	ND	6.46	22.2	19.19	ND
Jan-04	ND	ND	ND	4.61	ND	485	ND	ND	ND	6.2	17.5	14.2	ND
Apr-04	ND	ND	ND	4.7	ND	489	ND	ND	ND	6	18.5	4.39	ND
Jul-04	ND	ND	ND	4.76	ND	498	ND	ND	ND	6.3	20.6	12.35	ND
Oct-04	ND	ND	ND	4.65	ND	490	ND	ND	ND	6.3	20.3	7.85	ND
Jan-05	ND	ND	ND	4.64	ND	474	ND	ND	ND	6.5	19.7	33.5	ND
Apr-05	ND	ND	ND	4.42	ND	455	ND	ND	ND	6.4	20.2	14.3	ND
Jul-05	ND	ND	ND	4.64	ND	491	ND	ND	ND	6.3	20.7	28.5	ND
Oct-05	ND	ND	ND	4.61	ND	484	ND	ND	ND	6.3	19.3	9.57	ND
Jan-06	ND	ND	ND	4.41	ND	475	ND	ND	ND	6.3	19.4	52.8	ND
May-06	ND	ND	ND	4.57	ND	470	ND	ND	ND	6.3	21.1	18.49	ND
Aug-06	<1.5	23.5 J	<1.0	4.3	<1.0	444	<2.5	<0.06	<1.0	6.4	23.6	23.8	8.7 J
Nov-06	<1.5	25 J	<1.0	4.76	2.6 J	356	<2.5	<0.06	1.71 J	6.8	21.7	32.8	8.93 J
Jan-07	<1.5	42.5 J	<1.0	4.94	<1.0	478	<2.5	0.109 J	40.3 J	6.6	15	8.66	5.05 J
Apr-07	<1.5	27.8 J	<1.0	4.61	<1.0	434	<2.5	<0.06	3.5 J	6.4	20.5	22.4	2.26 J
Aug-07	<1.5	24.1 J	<1.0	4.69	1.83 J	522	<2.5	<0.03	<1.0	6.3	21.9	6.61	10.7 J
Nov-07	<1.5	29.2 J	<1.0	4.6	1.41 J	410	<2.5	<0.03	<1.0	6.6	19.6	21.8	5.26 J
Feb-08	<1.5	28 J	<1.0	4.57	3.55 J	391	<2.5	0.121 J	4.88 J	6.5	18.6	15.2	7.49 J
Apr-08	<1.5	21.2 J	1.01 J	4.7	2.68 J	410	<2.5	<0.03	4.35 J	6.7	20.1	20	2.46 J
Jul-08	<1.5	20.8 J	<1.0	4.75	2.12 J	463	<2.5	<0.03	1.37 J	6.6	21.9	11.9	5.62 J
Nov-08	<1.5	26.4 J	<1.0	4.68	<2.0	401	<2.5	<0.067	<1.0	6.8	18.4	16.7	7.79 J
Jan-09	<1.5	25.6 J	<1.0	4.52	<2.0	422	<2.5	<0.067	7.37 J	7.2	19.2	7.35	5.5 J
Apr-09	<1.5	27.8 J	1.58 J	4.61	<2.0	417	<2.5	<0.067	<1.0	6.4	20.2	12.6	11.3 J
Jul-09	<1.6	24.1 J	<1.0	4.51	3.98 J	456	<3.3	<0.066	2.57 J	6.4	23.3	5.36	9.59 J
Oct-09	<1.6	26.1 J	<1.0	4.55	3.5 J	427	<3.3	<0.066	4.28 J	6.4	17.5	3.53	13.1 J

Historical Water Quality Data for SL002

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Jan-10	<1.6	26.5 J	<1.0	4.31	2.02 J	388	<3.3	<0.066	14.3 J	6.7	19	18.9	31.2
Apr-10	<1.6	24.5 J	<1.0	4.46	3.42 J	404	<3.3	<0.066	4.92 J	6.8	18.4	13.1	<3.3
Jul-10	<1.6	18.3 J	<1.0	4.59	2.48 J	484	<3.3	<0.066	<1.5	7	25.9	11.9	8.23 J
Nov-10	<1.6	27 J	<1.0	4.65	4.2 J	394	<3.3	<0.066	1.75 J	6.6	18.4	14.5	9.36 J
Feb-11	<1.7	28 J	1.46 J	4.57	1.82 J	453	<3.3	<0.066	4.54 J	6.5	19.8	6.27	16.1 J
May-11	<1.7	25.9 J	<1.0	4.5	2.88 J	393	<3.3	<0.066	6.26 J	6.5	19.2	11.3	<3.3
Jul-11	<1.7	28.4 J	<1.0	4.65	4.79 J	502	<3.3	<0.066	3.45 J	6.8	21.1	10.2	<3.3
Nov-11	<1.7	28.3 J	<1.0	4.58	2.69 J	445	<3.3	<0.066	3.77 J	6.4	19.3	19.5	<3.3
Feb-12	<4.0	<7.5	<0.6	5.2	<2.1	471	<1.9	<0.053	<10	6.48	19.8	9.41	<4.5
May-12	<4.0	<7.5	<0.6	4.9	<2.1	491	<1.9	<0.053	<10	6.15	20.6	2.7	<4.5
Aug-12	<4.0	<7.5	<0.6	4.9	<2.1	ND	<1.9	<0.053	<10	6.44	20.7	8.9	<4.5
Oct-12	<4.0	<7.5	<0.6	4.9	<2.1	432	<1.9	<0.053	<10	6.69	18.9	32	<4.5
Feb-13	<4.0	<7.5	<0.6	4.9	<2.1	437	<1.9	<0.015	<10	6.56	19.1	25	<4.5
May-13	<4.0	<7.5	<0.6	4.9	<2.1	433	<1.9	<0.015	<10	6.67	19.4	7.7	<4.5
Jul-13	<4.0	<7.5	<0.6	4.9	<2.1	455	<1.9	<0.015	<10	6.88	23.1	2.7	<4.5
Oct-13	<4.0	<7.5	<0.6	5.6	<2.1	456	<1.9	<0.015	<10	6.24	21.6	16	<4.5
Jan-14	<4.0	<7.5	<0.6	4.9	<2.1	488	<1.9	<0.015	<10	6.48	10.8	7.6	<4.5
Apr-14	<4.0	<7.5	<0.6	5.1	<2.1	449	<1.9	<0.015	<10	6.51	21.9	25	<4.5
Jul-14	<4.0	<7.5	<0.6	5.1	<2.1	449	<1.9	<0.015	<10	6.45	22.9	9.2	<4.5
Oct-14	<4.0	<7.5	<0.6	4.9	<2.1	417	<1.9	<0.015	<10	6.54	19.7	10	<4.5
Jan-15	<4.0	<7.5	<0.6	5.2	<2.1	376	<2.1	<0.015	<10	6.37	16.2	13	<4.5
Apr-15	<2.2	<1.9	<0.54	5.1	<0.72	438	<4.7	<0.028	<2.8	6.06	20.9	49	<2.2
Aug-15	<2.2	<1.9	<0.54	4.9	<0.72	494	<4.7	<0.028	<2.8	6.37	26.6	7.5	<2.2
Oct-15	<2.2	<1.9	<0.54	4.9	<0.72	461	<4.7	<0.028	<2.8	6.3	18.6	7.7	<2.2
Jan-16	<2.2	<1.9	<0.54	5.1	<0.72	416	<4.7	<0.028	<2.8	6.7	18.1	47	<2.2
Apr-16	<2.2	<1.9	<0.54	5.2	<0.72	500	<4.7	<0.028	<2.8	6.23	21.8	10	<2.2
Jul-16	<2.2	<1.9	<0.54	5	<0.72	250	<4.7	<0.028	<2.8	5.87	25	7.2	<2.2
Oct-16	<2.2	<1.9	<0.54	5.1	<0.72	230	<4.7	<0.028	<2.8	6.32	22.6	14	<2.2
Jan-17	<2.2	<1.9	<0.54	5.1	<0.72	170	<4.7	<0.028	<2.8	6.36	20.1	18	<2.2
Apr-17	<2.5	27	<0.6	5	<1.3	210	<4.7	<0.028	<5	6.29	22.2	8	<2.5
Jul-17	<2.5	25	<0.6	5.1	<1.3	180	<4.7	<0.028	<5	6.45	24.1	14	<2.5

Notes:
Data is presented in units of µg/L unless otherwise noted
ND = Non-detect
J = Indicates value is between the method detection limit and practical quantitation limit and is an estimated concentration
Value following "<" represents the method detection limit

Historical Water Quality Data for SL003

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Jul-94	ND	ND	ND	2.82	ND	277	ND	ND	ND	6.54	20.9	19.8	ND
Jan-95	ND	ND	ND	3.38	ND	229	ND	ND	ND	6.64	15.6	17.7	ND
Jul-95	ND	ND	ND	3.64	ND	197	ND	ND	ND	6.6	23.6	4.23	ND
Jan-96	ND	ND	ND	3.77	ND	234	ND	ND	ND	6.37	16.4	9.98	ND
Jul-96	ND	ND	ND	3.17	ND	293	ND	ND	ND	6.73	19.6	3.62	ND
Jan-97	ND	ND	ND	3.15	ND	312	ND	ND	ND	5.84	17.3	2.54	ND
Jul-97	ND	ND	ND	4.2	ND	295	ND	ND	ND	6.31	20	1.65	ND
Jan-98	ND	ND	ND	3.35	ND	255	ND	ND	ND	6.04	19	1.45	ND
Jul-98	ND	ND	ND	3.3	ND	258	ND	ND	ND	6.48	21.2	1.62	ND
Jan-99	ND	ND	ND	3.41	ND	248	ND	ND	ND	6.1	17.9	1.8	ND
Jul-99	ND	ND	ND	3.62	ND	253	ND	ND	ND	6.26	20.4	2.95	ND
Jan-00	ND	ND	ND	2.95	ND	210	ND	ND	ND	6.1	18.5	4.75	ND
Jul-00	ND	ND	ND	3.2	ND	273	ND	ND	ND	6.14	20.4	7.2	ND
Jan-01	ND	ND	ND	3.05	ND	273	ND	ND	ND	6.16	18	11.62	ND
Jul-01	ND	ND	ND	3.05	ND	276	ND	ND	ND	6.36	20	8.2	ND
Jan-02	ND	ND	ND	3.13	ND	234	ND	ND	ND	6.02	16.9	11.33	ND
Jul-02	ND	ND	ND	3.16	ND	259	ND	ND	ND	6.37	20.6	4.2	ND
Jan-03	ND	ND	ND	3.28	ND	282	ND	ND	ND	6.32	17.7	29.1	ND
Jul-03	ND	ND	ND	3.35	ND	256	ND	ND	ND	7.03	21.8	2.84	ND
Jan-04	ND	ND	ND	3.19	ND	240	ND	ND	ND	6.5	17.5	2.56	30.3
Apr-04	ND	ND	ND	3.2	ND	246	ND	ND	ND	6.2	18.3	1.89	ND
Jul-04	ND	ND	ND	3.27	ND	279	ND	ND	ND	6.6	20.3	30.3	ND
Oct-04	ND	ND	ND	3.25	ND	249	ND	ND	ND	6.4	19.8	1.15	ND
Jan-05	ND	ND	ND	3.2	ND	248	ND	ND	ND	6.5	19.8	3.1	ND
Apr-05	ND	ND	ND	2.99	ND	216	ND	ND	ND	6.5	20.2	24.3	ND
Jul-05	ND	104	ND	3.05	ND	255	ND	ND	ND	6.4	21.4	61	ND
Oct-05	ND	ND	ND	3.16	ND	244	ND	ND	ND	6.7	18.7	8.79	ND
Jan-06	ND	ND	ND	3.01	ND	230	ND	ND	ND	6.4	19.6	13.5	ND
May-06	ND	ND	ND	3.13	ND	230	ND	ND	ND	6.5	20.5	9.89	ND
Aug-06	<1.5	93.9 J	<1.0	2.97	<1.0	203	<2.5	<0.06	<1.0	6.8	23.4	10.8	7.1 J
Nov-06	<1.5	75.5 J	<1.0	3.15	<1.0	177	<2.5	<0.06	<1.0	7	22.1	21.1	6.46 J
Feb-07	2.25 J	108	<1.0	3.11	<1.0	221	<2.5	0.121 J	<1.0	6.3	17.6	11.6	6.99 J
Apr-07	<1.5	70.8 J	<1.0	3.16	<1.0	218	<2.5	<0.06	1.57 J	6.5	21.2	3.83	3.15 J
Aug-07	<1.5	56.4 J	<1.0	3.19	1.35 J	270	<2.5	<0.03	<1.0	6.5	21.4	2.41	6.64 J
Nov-07	<1.5	98.9 J	<1.0	3.09	<1.0	212	<2.5	<0.03	<1.0	6.7	20.8	13.1	4.33 J
Feb-08	<1.5	85 J	<1.0	2.95	<2.0	189	<2.5	<0.03	2.33 J	6.5	18.1	27.9	4.3 J
Apr-08	<1.5	79.5 J	<1.0	3.21	<2.0	215	<2.5	<0.03	1.84 J	7	20.5	12	2.5 J
Jul-08	<1.5	53.1 J	<1.0	3.27	<2.0	234	<2.5	<0.03	1.02 J	6.7	21.2	9.38	2.93 J
Nov-08	<1.5	101	<1.0	3.1	<2.0	192	<2.5	<0.067	<1.0	7	18.1	18.6	6.03 J
Jan-09	<1.5	107	<1.0	3.03	<2.0	186	<2.5	<0.067	<1.0	6.6	16.4	11.6	2.69 J
Apr-09	<1.5	99.2 J	<1.0	3.15	<2.0	236	3.16 J	<0.067	<1.0	6.6	21.1	8.44	7.65 J
Jul-09	<1.6	106	<1.0	2.99	<1.0	216	<3.3	<0.066	<1.5	6.8	22.4	6.39	4.02 J
Oct-09	<1.6	70.9 J	<1.0	3.02	1.19 J	222	<3.3	<0.066	<1.5	6.7	18.1	2.64	8.96 J
Jan-10	<1.6	110	<1.0	2.94	<1.0	189	<3.3	<0.066	<1.5	6.7	16.6	17.3	19.1 J

Historical Water Quality Data for SL003

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Apr-10	<1.6	71.7 J	<1.0	3.07	1.33 J	202	<3.3	<0.066	1.93 J	7.1	19.8	10.9	<3.3
Jul-10	<1.6	75.5 J	<1.0	3.07	2.56 J	237	<3.3	<0.066	<1.5	7.2	24.9	8.5	4.93 J
Nov-10	<1.6	88.7 J	<1.0	3.08	<1.0	190	<3.3	<0.066	<1.5	6.8	18.3	13	<3.3
Feb-11	<1.7	86.8 J	<1.0	3.13	<1.0	197	<3.3	<0.066	<1.5	6.4	15.8	7.38	8.73 J
May-11	<1.7	74.2 J	<1.0	3.05	<1.0	190	<3.3	<0.066	2.7 J	6.9	18.4	14	<3.3
Jul-11	<1.7	77.8 J	<1.0	3.09	<1.0	251	<3.3	<0.066	<1.5	6.7	21.1	9.67	<3.3
Nov-11	<1.7	79.7 J	<1.0	2.97	1.26 J	243	<3.3	<0.066	2.82 J	6.6	19.3	16.2	<3.3
Mar-12	<4.0	<7.5	<0.6	3.4	<2.1	216	<1.9	<0.053	<10	6.61	19.7	8.75	<4.5
May-12	<4.0	100	<0.6	3.3	<2.1	233	<1.9	<0.053	<10	6.61	20.4	7.5	<4.5
Aug-12	<4.0	100	<0.6	3.4	<2.1	ND	<1.9	<0.053	<10	6.82	20.3	4.2	<4.5
Oct-12	<4.0	100	<0.6	3.4	<2.1	222	<1.9	<0.053	<10	6.9	20.5	ND	<4.5
Feb-13	<4.0	<7.5	<0.6	3.3	<2.1	226	<1.9	<0.015	<10	6.75	20.9	31	<4.5
May-13	<4.0	<7.5	<0.6	3.3	<2.1	219	<1.9	<0.015	<10	6.78	20.6	1	<4.5
Jul-13	<4.0	<7.5	<0.6	3.4	<2.1	234	<1.9	<0.015	<10	6.58	23.1	2.6	<4.5
Oct-13	<4.0	<7.5	<0.6	3.5	<2.1	260	<1.9	<0.015	<10	6.56	22.3	6.1	<4.5
Jan-14	<4.0	100	<0.6	3.3	<2.1	256	<1.9	<0.015	<10	6.63	11.6	9.3	<4.5
Apr-14	<4.0	<7.5	<0.6	3.4	<2.1	231	<1.9	<0.015	<10	6.67	23.3	31	<4.5
Jul-14	<4.0	<7.5	<0.6	3.3	<2.1	265	<1.9	<0.015	<10	6.52	22.2	3.4	<4.5
Oct-14	<4.0	110	<0.6	3.3	<2.1	241	<1.9	<0.015	<10	6.83	18.8	9.5	<4.5
Jan-15	<4.0	<7.5	<0.6	3.5	<2.1	206	<2.1	<0.015	<10	6.73	16.5	1.3	<4.5
Apr-15	<2.2	<1.9	<0.54	3.4	<0.72	236	<4.7	<0.028	<2.8	6.43	18.3	2.7	<2.2
Aug-15	<2.2	<1.9	<0.54	3.3	<0.72	270	<4.7	<0.028	<2.8	6.31	25.2	2.2	<2.2
Oct-15	<2.2	<1.9	<0.54	3.5	<0.72	247	<4.7	<0.028	<2.8	6.6	19.1	9.9	<2.2
Jan-16	<2.2	<1.9	<0.54	3.4	<0.72	219	<4.7	<0.028	<2.8	6.53	19	35	<2.2
Apr-16	<2.2	110	<0.54	3.4	<0.72	260	<4.7	<0.028	<2.8	6.68	21.8	8.3	<2.2
Jul-16	<2.2	<1.9	<0.54	3.2	<0.72	190	<4.7	<0.028	<2.8	6.67	24.7	8.2	<2.2
Oct-16	<2.2	110	<0.54	3.4	<0.72	150	<4.7	<0.028	<2.8	6.7	23.4	7.3	<2.2
Jan-17	<2.2	<1.9	<0.54	3.3	<0.72	140	<4.7	<0.028	<2.8	6.44	19.8	11	<2.2
Apr-17	<2.5	96	<0.6	3.4	<1.3	150	<4.7	<0.028	<5	6.62	21.8	11	<2.5
Jul-17	<2.5	100	<0.6	3.3	<1.3	140	<4.7	<0.091	<5	6.46	23.8	3.7	<2.5

Notes:
Data is presented in units of µg/L unless otherwise noted
ND = Non-detect
J = Indicates value is between the method detection limit and practical quantitation limit and is an estimated concentration
Value following "<" represents the method detection limit

UPPER BLACK CREEK WELLS

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Historical Water Quality Data for PBC002

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Apr-01	ND	ND	ND	**2.28**	ND	**176**	ND	ND	ND	**6.56**	**17.8**	**0.76**	ND
Oct-01	ND	ND	ND	ND	ND	**132**	ND	ND	ND	**6.6**	**17.8**	**0.34**	ND
Apr-02	ND	ND	ND	**2.46**	ND	**116**	ND	**0.242**	ND	**6.64**	**19.1**	**0.77**	ND

Notes:
Data is presented in units of µg/L unless otherwise noted
ND = Non-detect

Historical Water Quality Data for PBC004

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Apr-01	ND	ND	ND	2.09	ND	139	ND	ND	ND	6.36	19.1	1.82	ND
Oct-01	ND	ND	ND	2.46	ND	145	ND	ND	ND	6.62	19.5	0.86	ND
Apr-02	ND	ND	ND	2.6	ND	121	ND	ND	ND	6.44	18.5	0.98	ND
Oct-02	ND	ND	ND	2.48	ND	148	ND	ND	ND	6.77	18.3	1.32	ND
Apr-03	ND	ND	ND	2.5	ND	144	ND	ND	ND	6.92	18	2.66	ND
Oct-03	ND	ND	ND	2.54	ND	142	ND	ND	ND	6.67	17.8	3.45	ND
Jul-04	ND	ND	ND	2.51	ND	168	ND	ND	ND	6.6	19.2	2.2	ND
Jul-05	ND	ND	ND	2.5	ND	144	ND	ND	ND	6.6	20	1.45	ND
Aug-06	2.35 J	58.7 J	<1.0	2.42	<1.0	145	2.69 J	<0.06	<1.0	6.7	21.4	2.15	5.84 J
Aug-07	<1.5	60.4 J	<1.0	2.39	<1.0	146	<2.5	<0.03	<1.0	6.6	21.2	1.68	<2.0
Aug-08	<1.5	60.4 J	<1.0	2.52	<2.0	130	<2.5	<0.03	<1.0	6.7	20.4	5.79	5.3 J
Jul-09	1.68 J	59 J	<1.0	2.34	<1.0	129	<3.3	<0.066	1.68 J	6.5	19.8	6.91	4.69 J
Aug-10	<1.6	61.4 J	<1.0	2.43	<1.0	124	<3.3	<0.066	<1.5	6.7	20.2	10.9	5.01 J
Aug-11	<1.7	65.9 J	<1.0	2.43	<1.0	121	<3.3	0.123 J	<1.5	7.2	20.6	11.8	<3.3
Aug-12	<4.0	<7.5	<0.6	2.5	<2.1	110	<1.9	<0.053	<10	6.56	22.7	6.3	<4.5
Aug-13	<4.0	<7.5	<0.6	2.7	<2.1	140	<1.9	<0.015	<10	6.68	21.3	3.1	<4.5
Jul-14	<4.0	<7.5	<0.6	2.9	<2.1	143	<1.9	<0.015	<10	6.86	25.4	4.6	<4.5
Aug-15	<2.2	<1.9	<0.54	2.6	<0.72	148	<4.7	<0.028	<2.8	6.41	21.9	4.4	<2.2
Aug-16	<2.2	<1.9	<0.54	2.7	<0.72	130	<4.7	<0.028	<2.8	6.62	22.2	7.8	<2.2
Jul-17	<2.5	68	<0.6	2.6	<1.3	100	<4.7	<0.091	<5	6.37	20	2.4	<2.5

Notes:
Data is presented in units of µg/L unless otherwise noted
ND = Non-detect
J = Indicates value is between the method detection limit and practical quantitation limit and is an estimated concentration
Value following "<" represents the method detection limit

Historical Water Quality Data for UBC002AIR

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Apr-01	ND	ND	ND	2.27	ND	161	ND	ND	ND	6.27	19.5	23.2	ND
Oct-01	ND	ND	ND	2.4	ND	160	ND	ND	ND	6.58	21.1	14.7	ND
Apr-02	ND	ND	ND	2.54	ND	132	ND	ND	ND	6.53	18.2	9.22	39.4
Oct-02	ND	ND	ND	2.44	ND	149	ND	ND	ND	6.65	23.4	5.67	ND
Apr-03	ND	ND	ND	2.59	ND	146	ND	ND	ND	6.7	21.1	6.43	ND
Oct-03	ND	ND	ND	2.53	ND	143	ND	ND	ND	6.65	19.3	4.05	ND
Jul-04	ND	ND	ND	2.44	ND	157	ND	ND	ND	6.8	20.9	5.29	ND

Notes:
Data is presented in units of µg/L unless otherwise noted
ND = Non-detect

Historical Water Quality Data for UBC004

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Apr-01	20.4	113	ND	2.04	ND	153	ND	ND	ND	6.58	18.6	1.4	ND
Oct-01	23	113	ND	2.26	ND	150	ND	ND	ND	6.87	19.7	1.6	ND
Apr-02	17.7	105	ND	2.57	ND	129	ND	ND	ND	6.7	17.8	0.35	ND
Oct-02	22	ND	ND	2.38	ND	147	ND	ND	ND	7.21	19.6	0.1	ND
Apr-03	22.6	102	ND	2.54	ND	143	ND	ND	ND	6.98	17.3	0.4	ND
Oct-03	17.7	101	ND	2.45	ND	141	ND	ND	ND	6.96	18.9	0.7	ND
Jul-04	17.5	116	ND	2.47	ND	160	ND	ND	ND	7.6	20.4	7.92	ND
Jul-05	19.9	129	ND	2.25	ND	143	ND	ND	ND	6.9	20.9	4.5	ND
Aug-06	21.6	112	<1.0	2.25	<1.0	ND	<2.5	<0.06	8.82 J	7.2	21.7	2.28	5.97 J
Aug-07	22.3	113	<1.0	2.44	<1.0	128	<2.5	<0.03	2.43 J	7.4	20.3	3.07	5.33 J
Jul-08	23.1	134	<1.0	2.52	<2.0	143	<2.5	<0.03	7.96 J	7.5	20.9	7.31	3.84 J
Jul-09	23.3	134	<1.0	2.32	<1.0	132	<3.3	<0.066	6.7 J	6.8	20.9	5.87	3.38 J
Jul-10	25.4	143	<1.0	2.43	<1.0	132	<3.3	<0.066	9.89 J	7.3	21.3	6.62	4.19 J
Jul-11	25	151	<1.0	2.46	<1.0	138	<3.3	<0.066	10.2 J	7.2	21.1	9.84	<3.3
Aug-12	31	150	<0.6	2.6	<2.1	136	<1.9	<0.053	<10	7.12	20.1	1.4	<4.5
Jul-13	29	140	<0.6	2.7	<2.1	142	<1.9	<0.015	<10	6.71	21.7	1.3	<4.5
Jul-14	22	130	<0.6	2.6	<2.1	153	<1.9	<0.015	<10	6.86	25.5	1.8	<4.5
Aug-15	24	130	<0.54	2.6	<0.72	171	<4.7	<0.028	<2.8	6.93	26.7	4.9	<2.2
Aug-16	29	130	<0.54	2.7	<0.72	130	<4.7	<0.028	<2.8	7.01	25.2	2.5	<2.2
Jul-17	30	140	<0.6	2.7	<1.3	110	<4.7	<0.091	<5	6.48	21.8	1.7	<2.5

Notes:
Data is presented in units of µg/L unless otherwise noted
ND = Non-detect
J = Indicates value is between the method detection limit and practical quantitation limit and is an estimated concentration
Value following "<" represents the method detection limit

Historical Water Quality Data for UBC010

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Apr-01	ND	ND	ND	2.15	ND	164	ND	ND	ND	6.69	19	0.8	ND
Oct-01	ND	131	ND	2.17	ND	176	ND	ND	ND	6.9	20.1	0.05	ND
Apr-02	ND	124	ND	2.29	ND	250	ND	ND	ND	6.65	19.4	0.23	ND
Oct-02	ND	ND	ND	2.21	ND	184	ND	ND	ND	6.93	19.7	0.1	ND
Apr-03	ND	118	ND	2.32	ND	135	ND	ND	ND	6.94	18.1	0.15	ND
Oct-03	ND	122	ND	2.24	ND	154	ND	ND	ND	6.97	20.3	0.65	ND
Jul-04	ND	130	ND	2.17	ND	167	ND	ND	ND	6.7	20.3	1.58	ND
Jul-05	ND	122	ND	2.07	ND	168	ND	ND	ND	6.8	20.4	1.05	ND
Aug-06	<1.5	124	<1.0	2.16	<1.0	ND	<2.5	<0.06	<1.0	7	21.5	1.57	7.93 J
Aug-07	<1.5	130	<1.0	2.22	<1.0	150	<2.5	<0.03	<1.0	6.9	21	1.3	4.61 J
Jul-08	<1.5	124	<1.0	2.18	<2.0	189	<2.5	<0.03	<1.0	7	21	9.55	6.58 J
Jul-09	<1.6	135	<1.0	2.05	<1.0	141	<3.3	<0.066	<1.5	7.3	20.9	2.91	6.32 J
Jul-10	<1.6	130	<1.0	2.17	<1.0	148	<3.3	<0.066	<1.5	7.9	21	6.88	3.49 J
Jul-11	<1.7	146	<1.0	2.14	<1.0	160	<3.3	<0.066	<1.5	7.8	20.7	-	<3.3
Aug-12	<4.0	130	<0.6	2.3	<2.1	159	<1.9	<0.053	<10	7.05	19.6	ND	<4.5
Jul-13	<4.0	160	<0.6	2.2	<2.1	172	<1.9	<0.015	<10	7.43	22	1.1	<4.5
Jul-14	<4.0	150	<0.6	2.4	<2.1	167	<1.9	<0.015	<10	7.69	22.8	5.3	<4.5
Aug-15	<2.2	140	<0.54	2.3	<0.72	180	<4.7	<0.028	<2.8	6.83	23.9	1.8	<2.2
Aug-16	<2.2	170	<0.54	2.4	<0.72	130	<4.7	<0.028	<2.8	7.18	21.2	1.7	<2.2
Jul-17	<2.5	160	<0.6	2.3	<1.3	120	<4.7	<0.091	<5	6.44	20.9	1.4	<2.5

Notes:
Data is presented in units of µg/L unless otherwise noted
ND = Non-detect
J = Indicates value is between the method detection limit and practical quantitation limit and is an estimated concentration
Value following "<" represents the method detection limit

Historical Water Quality Data for UBC011

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Apr-01	ND	ND	ND	2.27	ND	166	ND	ND	ND	6.59	19.3	0.5	ND
Oct-01	ND	ND	ND	2.19	ND	164	ND	ND	ND	6.69	19.4	0.38	ND
Apr-02	ND	ND	ND	2.41	ND	157	ND	ND	ND	6.87	19.7	1.61	ND
Oct-02	ND	ND	ND	2.42	ND	159	ND	ND	ND	7.25	19.4	1.16	ND
Apr-03	ND	ND	ND	2.45	ND	164	ND	ND	ND	6.55	18.9	0.13	ND
Oct-03	ND	ND	ND	2.45	ND	142	ND	ND	ND	6.7	19	1.52	ND
Jul-04	ND	ND	ND	2.34	ND	147	ND	ND	ND	6.7	20	2.2	ND
Jul-05	ND	ND	ND	2.26	ND	158	ND	ND	ND	6.9	20.2	1.1	ND
Aug-06	<1.5	67.9 J	<1.0	2.27	<1.0	ND	<2.5	<0.06	<1.0	6.9	21.1	6.25	7.56 J
Aug-07	<1.5	69.9 J	<1.0	2.41	<1.0	143	<2.5	<0.03	<1.0	7	20.4	2.07	6.69 J
Jul-08	<1.5	57.9 J	<1.0	2.41	<2.0	164	<2.5	<0.03	<1.0	6.9	21	7.14	7.42 J
Jul-09	<1.6	61.1 J	<1.0	2.29	<1.0	135	<3.3	<0.066	<1.5	7.2	20.9	2.16	4.68 J
Jul-10	<1.6	67.7 J	<1.0	2.36	<1.0	147	3.88 J	<0.066	<1.5	7.7	20.9	7.72	<3.3
Jul-11	<1.7	69 J	<1.0	2.38	<1.0	151	<3.3	<0.066	<1.5	7.6	20.6	7.01	<3.3
Aug-12	<4.0	<7.5	<0.6	2.5	<2.1	152	<1.9	<0.053	<10	7.14	19.9	ND	<4.5
Jul-13	<4.0	<7.5	<0.6	2.5	<2.1	161	<1.9	<0.015	<10	7.31	24.2	1.7	<4.5
Jul-14	<4.0	<7.5	<0.6	2.6	<2.1	156	<1.9	<0.015	<10	7.42	24.3	4	<4.5
Aug-15	<2.2	<1.9	<0.54	2.5	<0.72	160	<4.7	<0.028	<2.8	6.76	23.4	3.6	<2.2
Aug-16	<2.2	<1.9	<0.54	2.6	<0.72	130	<4.7	<0.028	<2.8	6.72	21.3	ND	<2.2
Jul-17	<2.5	83	<0.6	2.5	<1.3	110	<4.7	<0.091	<5	6.54	21.4	1.3	<2.5

Notes:
Data is presented in units of µg/L unless otherwise noted
ND = Non-detect
J = Indicates value is between the method detection limit and practical quantitation limit and is an estimated concentration
Value following "<" represents the method detection limit

Historical Water Quality Data for UBC012

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Apr-01	ND	ND	ND	ND	ND	179	ND	ND	ND	0	19.4	0.6	ND
Oct-01	ND	ND	ND	2.12	ND	178	ND	ND	ND	6.67	19.4	0.25	ND
Apr-02	ND	ND	ND	2.35	ND	182	ND	ND	ND	6.71	19.4	1.45	ND
Oct-02	ND	ND	ND	2.35	ND	176	ND	ND	ND	6.9	19.2	0.8	ND
Apr-03	ND	ND	ND	2.37	ND	182	ND	ND	ND	7.4	19	0.1	ND
Oct-03	ND	ND	ND	2.38	ND	161	ND	ND	ND	6.84	19.2	0.9	ND
Jul-04	ND	ND	ND	2.26	ND	158	ND	ND	ND	6.68	19.7	2.7	ND
Jul-05	ND	ND	ND	2.17	ND	163	ND	ND	ND	6.9	20.2	4	ND
Aug-06	<1.5	53 J	<1.0	2.24	<1.0	ND	<2.5	<0.06	<1.0	6.9	21.6	3.06	9.14 J
Aug-07	<1.5	57.9 J	<1.0	2.38	<1.0	138	<2.5	<0.03	<1.0	7.2	20.9	1.48	4.81 J
Jul-08	<1.5	63.2 J	<1.0	2.36	<2.0	173	<2.5	<0.03	<1.0	7.1	21.4	6.2	2.01 J
Jul-09	<1.6	64.2 J	<1.0	2.26	<1.0	151	3.35 J	<0.066	<1.5	7.3	21.5	3.21	5.49 J
Jul-10	<1.6	72.1 J	<1.0	2.28	<1.0	156	<3.3	<0.066	<1.5	7.7	21	5.74	<3.3
Jul-11	<1.7	68.1 J	<1.0	2.28	<1.0	160	<3.3	<0.066	<1.5	7.3	20.7	8.11	<3.3
Aug-12	<4.0	<7.5	<0.6	2.4	<2.1	162	<1.9	<0.053	<10	7.2	20.2	2.1	<4.5
Jul-13	<4.0	<7.5	<0.6	2.5	<2.1	171	<1.9	<0.015	<10	6.78	21.2	1.2	<4.5
Jul-14	<4.0	<7.5	<0.6	2.5	<2.1	175	<1.9	<0.015	<10	6.92	23.8	6.2	<4.5
Aug-15	<2.2	<1.9	<0.54	2.4	<0.72	175	<4.7	<0.028	<2.8	7.39	25.3	9.5	<2.2
Aug-16	<2.2	<1.9	<0.54	2.5	<0.72	140	<4.7	<0.028	<2.8	7.12	21.6	5.6	<2.2
Jul-17	<2.5	70	<0.6	2.6	<1.3	120	<4.7	<0.091	<5	6.39	21.8	1.7	<2.5

Notes:
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ND = Non-detect
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Value following "<" represents the method detection limit

Historical Water Quality Data for UBC013

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Apr-01	ND	ND	ND	2.03	ND	162	ND	ND	ND	6.47	19.6	0.45	ND
Oct-01	ND	ND	ND	2.15	ND	160	ND	ND	ND	6.63	19.4	0.15	ND
Apr-02	ND	ND	ND	2.32	ND	159	ND	ND	ND	6.74	19.4	0.55	ND
Oct-02	ND	ND	ND	2.3	ND	167	ND	ND	ND	8.1	19.4	2.09	ND
Apr-03	ND	ND	ND	2.35	ND	168	ND	ND	ND	6.41	19.3	0.28	ND
Oct-03	ND	ND	ND	2.35	ND	144	ND	ND	ND	6.79	19.4	0.95	ND
Jul-04	ND	ND	ND	2.26	ND	144	ND	ND	ND	6.8	20.3	1.05	ND
Jul-05	ND	ND	ND	2.08	ND	151	ND	ND	ND	6.9	20.5	0.7	ND
Aug-06	<1.5	80 J	<1.0	2.14	<1.0	ND	<2.5	<0.06	<1.0	6.9	22.8	1.23	5.87 J
Aug-07	<1.5	83.7 J	<1.0	2.38	<1.0	133	<2.5	<0.03	<1.0	6.9	20.2	1.91	4.99 J
Jul-08	<1.5	80.3 J	<1.0	2.35	<2.0	154	<2.5	<0.03	<1.0	6.8	21	6.96	2.24 J
Jul-09	<1.6	84.8 J	<1.0	2.17	<1.0	129	3.6 J	<0.066	<1.5	6.9	21.1	2.87	5.37 J
Jul-10	<1.6	79 J	<1.0	2.32	<1.0	139	<3.3	<0.066	<1.5	7.4	21.1	7.26	<3.3
Jul-11	<1.7	81.2 J	<1.0	2.29	<1.0	151	<3.3	<0.066	<1.5	7.1	20.9	9.23	<3.3
Aug-12	<4.0	<7.5	<0.6	2.5	<2.1	143	<1.9	<0.053	<10	7.18	20.1	1.7	<4.5
Jul-13	<4.0	<7.5	<0.6	2.5	<2.1	140	<1.9	<0.015	<10	6.82	20.9	1	<4.5
Jul-14	<4.0	<7.5	<0.6	2.5	<2.1	145	<1.9	<0.015	<10	7.46	23.3	8.7	<4.5
Aug-15	<2.2	<1.9	<0.54	2.5	<0.72	167	<4.7	<0.028	<2.8	7.14	25.4	3.8	<2.2
Aug-16	<2.2	<1.9	<0.54	2.6	<0.72	130	<4.7	<0.028	<2.8	6.87	21.9	2.7	<2.2
Jul-17	<2.5	84	<0.6	2.5	<1.3	120	<4.7	<0.091	<5	5.41	21.7	2	<2.5

Notes:
Data is presented in units of µg/L unless otherwise noted
ND = Non-detect
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Value following "<" represents the method detection limit

Historical Water Quality Data for UBC014

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Apr-01	ND	ND	ND	2.26	ND	148	ND	ND	ND	6.4	19	2.05	ND
Oct-01	ND	ND	ND	2.4	ND	147	ND	ND	ND	6.74	20	0.1	ND
Apr-02	ND	ND	ND	2.58	ND	126	ND	ND	ND	6.7	18	0.23	ND
Oct-02	ND	ND	ND	2.51	ND	148	ND	ND	ND	6.64	20	0.9	ND
Apr-03	ND	ND	ND	2.67	ND	157	ND	ND	ND	6.74	18.7	0.76	ND
Oct-03	ND	ND	ND	2.57	ND	136	ND	ND	ND	6.73	19.4	1.07	ND
Jul-04	ND	ND	ND	2.51	ND	154	ND	ND	ND	6.7	20.3	3.3	ND
Jul-05	ND	ND	ND	2.32	ND	141	ND	ND	ND	6.7	20.7	1.25	ND
Aug-06	<1.5	66.4 J	<1.0	2.34	<1.0	ND	<2.5	<0.06	<1.0	6.8	21.8	0.78	5.94 J
Aug-07	<1.5	70.5 J	<1.0	2.61	<1.0	131	<2.5	<0.03	<1.0	6.8	20.5	2.76	5.67 J
Jul-08	<1.5	68.4 J	<1.0	2.62	<2.0	143	<2.5	<0.03	<1.0	6.9	21	7.91	2.67 J
Jul-09	<1.6	68.6 J	<1.0	2.39	<1.0	120	<3.3	<0.066	<1.5	6.6	20.7	4.27	4.01 J
Jul-10	<1.6	70.5 J	<1.0	2.52	<1.0	129	<3.3	<0.066	<1.5	6.8	21.1	7.63	3.8 J
Jul-11	<1.7	68.2 J	<1.0	2.49	<1.0	129	<3.3	<0.066	<1.5	7.2	21.4	9.75	<3.3
Aug-12	<4.0	<7.5	<0.6	2.6	<2.1	139	<1.9	<0.053	<10	6.69	22.5	4.5	<4.5
Jul-13	<4.0	<7.5	<0.6	2.7	<2.1	129	<1.9	<0.015	<10	7.21	21.7	2.6	<4.5
Jul-14	<4.0	<7.5	<0.6	2.7	<2.1	132	<1.9	<0.015	<10	7.36	22.2	1.9	<4.5
Aug-15	<2.2	<1.9	<0.54	2.6	<0.72	144	<4.7	<0.028	<2.8	7.18	25.6	5.3	<0.22
Aug-16	<2.2	<1.9	<0.54	2.7	<0.72	120	<4.7	<0.028	<2.8	7.29	21.6	3.3	<0.22
Jul-17	<2.5	67	<0.6	2.7	<1.3	110	<4.7	<0.091	<5	6.21	21.9	1.4	<2.5

Notes:
Data is presented in units of µg/L unless otherwise noted
ND = Non-detect
J = Indicates value is between the method detection limit and practical quantitation limit and is an estimated concentration
Value following "<" represents the method detection limit

Historical Water Quality Data for UBC015AR

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Apr-01	ND	ND	ND	2.07	ND	106	ND	ND	ND	7.53	19.6	3.98	ND
Oct-01	ND	ND	ND	2.34	ND	107	ND	ND	ND	8.32	19.9	2.86	ND
Apr-02	ND	ND	ND	2.56	ND	98	ND	ND	ND	7.34	19.4	2.89	ND
Oct-02	ND	ND	ND	2.31	ND	119	ND	ND	ND	7.95	19.6	3.1	ND
Apr-03	ND	ND	ND	2.41	ND	117	ND	ND	ND	7.04	18.3	3.04	ND
Oct-03	ND	ND	ND	2.27	ND	123	ND	ND	ND	7.31	19.7	3.31	ND
Jul-04	ND	ND	ND	2.27	ND	133	ND	ND	ND	7.3	20.6	6.42	ND
Jul-05	ND	ND	ND	2.14	ND	121	ND	ND	ND	7.4	20.2	3.33	ND
Aug-06	<1.5	77.7 J	<1.0	2.05	<1.0	165	<2.5	<0.06	<1.0	8.3	24.5	6.14	7.84 J
Aug-07	<1.5	101	<1.0	2.26	3.24 J	135	<2.5	<0.03	<1.0	9.3	22.8	3.7	<2.0
Aug-08	<1.5	152	<1.0	2.02	10.5 J	118	5.87 J	<0.03	<1.0	7.5	21.8	9.71	9.38 J
Jul-09	<1.6	152	<1.0	1.86 J	6.65 J	323	<3.3	<0.066	<1.5	8.9	22.5	2.86	<3.3
Aug-10	<1.6	115	<1.0	2.14	3.98 J	297	<3.3	<0.066	<1.5	8.1	22	7.31	3.33 J
Aug-11	<1.7	148	<1.0	2.31	2.16 J	137	<3.3	0.125 J	<1.5	7.3	21.4	11.6	<3.3
Aug-12	<4.0	130	<0.6	2.6	<2.1	137	<1.9	<0.053	<10	7.39	24.1	7.6	<4.5
Aug-13	<4.0	140	<0.6	2.3	<2.1	157	<1.9	<0.015	<10	7.98	23.9	5.3	<4.5
Jul-14	<4.0	120	<0.6	2.6	<2.1	223	<1.9	<0.015	<10	7.27	34.1	4.4	<4.5
Aug-15	<2.2	110	<0.54	2.5	<0.72	188	<4.7	<0.028	<2.8	6.92	25.8	8.5	<2.2
Aug-16	<2.2	100	<0.54	2.5	<0.72	140	<4.7	<0.028	<2.8	9.22	21.2	3.1	<2.2
Jul-17	<2.5	120	<0.6	2.6	<1.3	110	<4.7	<0.091	<5	8.83	23.2	5.5	<2.5

Notes:
Data is presented in units of µg/L unless otherwise noted
ND = Non-detect
J = Indicates value is between the method detection limit and practical quantitation limit and is an estimated concentration
Value following "<" represents the method detection limit

Historical Water Quality Data for UBC016

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Apr-01	ND	ND	ND	2.22	ND	160	ND	ND	ND	6.56	19.3	1.42	ND
Oct-01	ND	ND	ND	2.07	ND	154	ND	ND	ND	6.8	18.8	1.68	ND
Apr-02	ND	ND	ND	2.61	ND	134	ND	ND	ND	6.45	18.3	0.68	ND
Oct-02	ND	ND	ND	2.51	ND	163	ND	ND	ND	6.91	18.3	0.65	ND
Apr-03	ND	ND	ND	2.52	ND	165	ND	ND	ND	7	17.8	0.39	ND
Oct-03	ND	ND	ND	2.48	ND	154	ND	ND	ND	6.76	17.8	0.9	ND
Jul-04	ND	ND	ND	2.43	ND	173	ND	ND	ND	6.9	19.7	0.68	ND
Jul-05	ND	ND	ND	2.32	ND	159	ND	ND	ND	6.8	20	0.088	ND
Aug-06	<1.5	74.3 J	<1.0	2.2	<1.0	171	<2.5	<0.06	<1.0	7.1	20.5	0.72	7.44 J
Aug-07	<1.5	71.4 J	<1.0	2.35	<1.0	149	<2.5	<0.03	<1.0	7.1	23	0.99	<2.0
Aug-08	<1.5	74 J	<1.0	2.55	<2.0	148	<2.5	<0.03	<1.0	7.1	21	7.69	4.03 J
Jul-09	<1.6	70.5 J	<1.0	2.35	<1.0	159	<3.3	<0.066	<1.5	6.7	19.9	3.12	<3.3
Aug-10	<1.6	74.7 J	<1.0	2.43	<1.0	148	<3.3	<0.066	<1.5	7	20.7	11.4	13.2 J
Aug-11	<1.7	77.7 J	<1.0	2.39	<1.0	146	<3.3	<0.066	<1.5	7.1	20.6	11.9	<3.3
Aug-12	<4.0	<7.5	<0.6	2.6	<2.1	155	<1.9	<0.053	<10	6.71	22.5	8.6	<4.5
Aug-13	<4.0	<7.5	<0.6	2.7	<2.1	164	<1.9	<0.015	<10	6.57	20.3	1.8	<4.5
Jul-14	<4.0	<7.5	<0.6	2.8	<2.1	171	<1.9	<0.015	<10	7.34	25.7	3.3	<4.5
Aug-15	<2.2	<1.9	<0.54	2.6	<0.72	150	<4.7	<0.028	<2.8	6.59	21.3	--	<2.2
Aug-16	<2.2	<1.9	<0.54	2.7	<0.72	140	<4.7	<0.028	<2.8	6.84	22.7	1.8	<2.2
Jul-17	<2.5	73	<0.6	2.7	<1.3	120	<4.7	<0.091	<5	6.46	20.7	1.6	<2.5

Notes:
Data is presented in units of µg/L unless otherwise noted
ND = Non-detect
J = Indicates value is between the method detection limit and practical quantitation limit and is an estimated concentration
Value following "<" represents the method detection limit

Historical Water Quality Data for UBC017

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Apr-01	ND	ND	ND	2.42	ND	133	ND	ND	ND	6.31	19.4	2.45	ND
Oct-01	ND	ND	ND	2.17	ND	135	ND	ND	ND	6.99	18.8	1.33	ND
Apr-02	ND	ND	ND	2.6	ND	113	ND	ND	ND	6.6	18.4	1.7	ND
Oct-02	ND	ND	ND	2.43	ND	129	ND	ND	ND	6.65	18.6	0.65	ND
Apr-03	ND	ND	ND	2.44	ND	105	ND	ND	ND	6.54	17.8	1.49	ND
Oct-03	ND	ND	ND	2.44	ND	138	ND	ND	ND	6.55	18	0.89	ND
Jul-04	ND	ND	ND	2.44	ND	152	ND	ND	ND	6.8	19.3	1.5	ND
Jul-05	ND	ND	ND	2.28	ND	136	ND	ND	ND	6.6	19.9	1.68	ND
Aug-06	3.67 J	62 J	<1.0	2.38	<1.0	138	<2.5	<0.06	<1.0	6.7	21.3	1.64	5.74 J
Aug-07	<1.5	67.3 J	<1.0	2.34	<1.0	141	<2.5	<0.03	<1.0	6.5	19.6	1.12	<2.0
Aug-08	<1.5	67.9 J	<1.0	2.43	<2.0	118	<2.5	<0.03	<1.0	6.9	21.8	5.81	4.06 J
Jul-09	<1.6	94.7 J	<1.0	2.25	<1.0	125	<3.3	<0.066	<1.5	6.3	20	4.2	<3.3
Aug-10	<1.6	71.2 J	<1.0	2.39	<1.0	122	<3.3	<0.066	<1.5	6.5	20.1	9.78	7.19 J
Aug-11	<1.7	68.7 J	<1.0	2.31	<1.0	119	<3.3	<0.066	<1.5	6.7	20.5	9.37	<3.3
Aug-12	<4.0	<7.5	<0.6	2.4	<2.1	134	<1.9	<0.053	<10	6.67	23.7	2.4	<4.5
Aug-13	<4.0	<7.5	<0.6	2.4	<2.1	135	<1.9	<0.015	<10	6.62	21.8	1.1	<4.5
Jul-14	<4.0	<7.5	<0.6	3.4	<2.1	137	<1.9	<0.015	<10	6.46	22.5	2.9	<4.5
Aug-15	<2.2	<1.9	<0.54	2.5	<0.72	143	<4.7	<0.28	<2.8	6.55	24.4	2	<2.2
Aug-16	<2.2	<1.9	<0.54	2.6	<0.72	110	<4.7	<0.28	<2.8	6.8	21.4	1.8	<2.2
Jul-17	<2.5	74	<0.6	2.6	<1.3	100	<4.7	<0.091	<5	6.64	22.1	2.6	<2.5

Notes:
Data is presented in units of µg/L unless otherwise noted
ND = Non-detect
J = Indicates value is between the method detection limit and practical quantitation limit and is an estimated concentration
Value following "<" represents the method detection limit

Historical Water Quality Data for UBC018

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Apr-01	ND	ND	ND	2.2	ND	143	ND	ND	ND	6.39	18.9	5.5	ND
Oct-01	ND	ND	ND	2.27	ND	145	ND	ND	ND	6.64	18.9	8.69	ND
Apr-02	ND	ND	ND	2.52	ND	112	ND	ND	ND	6.57	18.4	0.78	ND
Oct-02	ND	ND	ND	2.35	ND	139	ND	ND	ND	6.75	18.5	0.42	ND
Apr-03	ND	ND	ND	2.33	ND	105	ND	ND	ND	6.75	18	0.23	ND
Oct-03	ND	ND	ND	2.41	ND	138	ND	ND	ND	6.61	18.3	0.5	ND
Jul-04	ND	ND	ND	2.39	ND	151	ND	ND	ND	6.8	19.4	2.35	ND
Jul-05	ND	ND	ND	2.25	ND	133	ND	ND	ND	6.4	19.9	0.73	ND
Aug-06	<1.5	72.6 J	<1.0	2.37	<1.0	127	4.63 J	<0.06	<1.0	6.9	20.2	3.82	4.94 J
Aug-07	<1.5	73.9 J	<1.0	2.29	<1.0	112	<2.5	<0.03	<1.0	7.5	21.1	0.73	5.18 J
Aug-08	<1.5	73.4 J	<1.0	2.44	<2.0	125	<2.5	<0.03	<1.0	6.5	21.3	4.81	2.99 J
Jul-09	<1.6	72.3 J	<1.0	2.21	<1.0	122	<3.3	<0.066	<1.5	6.8	21.1	3.71	<3.3
Aug-10	<1.6	72.4 J	<1.0	2.35	<1.0	120	<3.3	<0.066	<1.5	6.9	20.9	11.1	5.64 J
Aug-11	<1.7	71.9 J	<1.0	2.26	<1.0	121	<3.3	<0.066	<1.5	6.7	20.7	11.1	<3.3
Aug-13	<4.0	<7.5	<0.6	2.4	<2.1	137	<1.9	<0.015	<10	6.61	22.5	1.2	<4.5
Jul-14	<4.0	<7.5	<0.6	2.6	<2.1	130	<1.9	<0.015	<10	6.47	21.4	3.3	<4.5
Aug-15	<2.2	<1.9	<0.54	2.4	<0.72	141	<4.7	<0.028	<2.8	6.81	25.2	1.5	<2.2
Aug-16	<2.2	<1.9	<0.54	2.6	<0.72	120	<4.7	<0.028	<2.8	7.1	26.2	1.6	<2.2
Jul-17	<2.5	73	<0.6	2.6	<1.3	100	<4.7	<0.091	<5	6.24	21.4	2.6	<2.5

Notes:
Data is presented in units of µg/L unless otherwise noted
ND = Non-detect
J = Indicates value is between the method detection limit and practical quantitation limit and is an estimated concentration
Value following "<" represents the method detection limit

Historical Water Quality Data for UBC019

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Mar-15	<2.2	<1.9	<0.54	**2.5**	<0.72	**174**	<4.7	<0.028	<2.8	**7.81**	**16.6**	**7.2**	<2.2
May-15	<2.2	**110**	<0.54	**2.6**	<0.72	**180**	<4.7	<0.028	<2.8	**7.56**	**21.4**	--	<2.2
Aug-15	<2.2	**100**	<0.54	**3**	<0.72	**182**	<4.7	<0.028	<2.8	**6.83**	**22.8**	**0.79**	<2.2
Nov-15	<2.2	<1.9	<0.54	**2.6**	<0.72	**193**	<4.7	<0.028	<2.8	**6.7**	**20.3**	**1.3**	<2.2
Aug-16	<2.2	<1.9	<0.54	**2.6**	<0.72	**140**	<4.7	<0.028	<2.8	**6.98**	**22.2**	**1.7**	<2.2
Jul-17	<2.5	**100**	<0.6	**2.4**	<1.3	**110**	<4.7	<0.091	<5	**7.26**	**21.5**	**2.3**	<2.5

Notes:
Data is presented in units of µg/L unless otherwise noted
Value following "<" represents the method detection limit

Historical Water Quality Data for UBC022AR

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Apr-01	ND	ND	ND	2.4	ND	172	ND	ND	ND	6.36	20.1	2.33	ND
Oct-01	ND	ND	ND	2.15	ND	195	ND	ND	ND	7.12	20	3.7	ND
Apr-02	ND	ND	ND	5.49	ND	171	ND	ND	ND	6.44	38.08	8.7	ND
Oct-02	ND	ND	ND	2.43	ND	209	ND	ND	ND	6.88	20	12.7	ND
Apr-03	ND	ND	ND	2.36	ND	175	ND	ND	ND	6.85	17.5	3.74	ND
Oct-03	ND	ND	ND	2.4	ND	180	ND	ND	ND	6.89	19.4	2.29	ND
Jul-04	ND	ND	ND	2.4	ND	180	ND	ND	ND	7	20.7	4.19	ND
Jul-05	ND	ND	ND	2.31	ND	176	ND	ND	ND	6.9	21	1.9	ND
Aug-06	<1.5	42.9 J	<1.0	2.13	<1.0	ND	<2.5	<0.06	<1.0	7.1	25	2.93	6.7 J
Aug-07	<1.5	82 J	<1.0	2.29	4.46 J	156	<2.5	<0.03	3.35 J	7.7	23.6	14	<2.0
Aug-08	<1.5	68.5 J	<1.0	2.48	<2.0	133	<2.5	<0.03	<1.0	7.5	22.7	14.2	6.99 J
Jul-09	<1.6	83.7 J	<1.0	2.24	<1.0	168	<3.3	<0.066	<1.5	6.7	23.1	3.99	<3.3
Jul-10	<1.6	88.2 J	<1.0	2.52	<1.0	172	<3.3	<0.066	<1.5	7.2	21.8	9.82	3.88 J
Jul-11	<1.7	89.7 J	<1.0	2.42	1.28 J	193	<3.3	0.079 J	<1.5	7.1	21.9	9.56	5.47 J
Aug-12	13	<7.5	<0.6	2.5	<2.1	179	<1.9	<0.053	<10	6.95	20.9	5.3	<4.5
Jul-13	<4.0	<7.5	<0.6	2.5	<2.1	155	<1.9	<0.015	<10	7.25	24.5	9	<4.5
Jul-14	<4.0	<7.5	<0.6	2.6	<2.1	179	<1.9	<0.015	<10	6.96	29.3	7.2	<4.5
Aug-15	<2.2	<1.9	<0.54	2.5	<0.72	209	<4.7	<0.028	<2.8	7.13	30	3.1	<2.2
Aug-16	<2.2	<1.9	<0.54	2.5	<0.72	130	<4.7	<0.028	<2.8	6.72	24.8	5.3	<2.2
Jul-17	<2.5	79	<0.6	2.6	<1.3	110	<4.7	<0.091	<5	6.54	22.1	2.2	<2.5

Notes:
Data is presented in units of µg/L unless otherwise noted
ND = Non-detect
J = Indicates value is between the method detection limit and practical quantitation limit and is an estimated concentration
Value following "<" represents the method detection limit

Historical Water Quality Data for UBC023

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Apr-01	ND	ND	ND	2.41	ND	187	ND	ND	ND	6.78	19.6	2.82	ND
Oct-01	ND	ND	ND	2.33	ND	172	ND	ND	ND	6.93	18.9	0.75	ND
Apr-02	ND	ND	ND	7.99	ND	145	ND	ND	ND	6.93	19.6	0.98	ND
Oct-02	ND	ND	ND	2.59	ND	193	ND	ND	ND	7.23	19.4	0.75	ND
Apr-03	ND	ND	ND	2.63	ND	193	ND	ND	ND	7.16	17.5	1.22	ND
Oct-03	ND	ND	ND	2.66	ND	179	ND	ND	ND	7.05	18.9	0.25	ND
Jul-04	ND	ND	ND	2.55	ND	185	ND	ND	ND	7.4	20.6	1.45	ND
Jul-05	ND	ND	ND	2.43	ND	168	ND	ND	ND	7	20.8	1.7	ND
Aug-06	<1.5	64.8 J	<1.0	2.31	<1.0	150	<2.5	<0.06	<1.0	7.5	21.8	1.48	7.12 J
Aug-07	<1.5	66.7 J	<1.0	2.47	<1.0	146	<2.5	<0.03	<1.0	7.9	22.5	1.17	<2.0
Aug-08	<1.5	72.7 J	<1.0	2.48	<2.0	163	2.58 J	<0.03	<1.0	7.8	21.5	11.2	8.36 J
Jul-09	<1.6	66.5 J	<1.0	2.37	<1.0	148	<3.3	<0.066	<1.5	7.3	20.6	3.51	<3.3
Aug-10	<1.6	68 J	<1.0	2.56	<1.0	153	<3.3	<0.066	<1.5	7.6	21.1	8.27	<3.3
Aug-11	<1.7	74.2 J	<1.0	2.51	1.02 J	142	<3.3	0.104 J	<1.5	7.4	20	11.6	<3.3

Notes:
Data is presented in units of µg/L unless otherwise noted
Well abandoned 5/15/2012
ND = Non-detect
J = Indicates value is between the method detection limit and practical quantitation limit and is an estimated concentration
Value following "<" represents the method detection limit

Historical Water Quality Data for UBC024

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Apr-01	ND	ND	ND	2.78	ND	159	ND	ND	ND	6.8	20	1.9	ND
Oct-01	ND	ND	ND	2.35	ND	179	ND	ND	ND	7.03	18.6	2.72	ND
Apr-02	ND	ND	ND	7.72	ND	158	ND	ND	ND	6.99	19.4	1.57	ND
Oct-02	ND	ND	ND	2.51	ND	195	ND	ND	ND	7.12	19.4	8.48	ND
Apr-03	ND	ND	ND	2.57	ND	176	ND	ND	ND	7.27	17.5	1.05	ND
Oct-03	ND	ND	ND	2.61	ND	172	ND	ND	ND	7.02	18.9	3	ND
Jul-04	ND	ND	ND	2.64	ND	171	ND	ND	ND	7.2	19	2.47	ND
Jul-05	ND	ND	ND	2.43	ND	177	ND	ND	ND	7	20.1	1.05	ND
Aug-06	<1.5	79.4 J	<1.0	2.3	<1.0	171	<2.5	<0.06	<1.0	7.4	21.3	1.44	7.06 J
Aug-07	<1.5	83.6 J	<1.0	2.45	<1.0	152	<2.5	<0.03	<1.0	8	20.6	0.59	5.34 J
Aug-08	<1.5	84 J	<1.0	2.47	<2.0	147	<2.5	<0.03	<1.0	7.3	21.3	8.04	8.05 J
Jul-09	<1.6	89.7 J	<1.0	2.37	<1.0	163	<3.3	<0.066	<1.5	7.1	20.9	4.06	<3.3
Aug-10	<1.6	89.5 J	<1.0	2.57	<1.0	157	<3.3	<0.066	<1.5	7.5	22.2	8.69	3.92 J
Aug-11	<1.7	98.7 J	<1.0	2.49	<1.0	157	<3.3	0.11 J	<1.5	7.4	20.8	10.8	4.84 J
Aug-12	<4.0	<7.5	<0.6	2.7	<2.1	136	<1.9	<0.053	<10	6.77	21.6	1.3	<4.5
Aug-13	<4.0	100	<0.6	2.7	<2.1	169	<1.9	<0.015	<10	7.08	23.8	1.5	<4.5
Jul-14	<4.0	<7.5	<0.6	2.7	<2.1	168	<1.9	<0.015	<10	7.49	26.4	4.6	<4.5
Aug-15	<2.2	<1.9	<0.54	2.6	<0.72	176	<4.7	<0.028	<2.8	7.12	27.3	3.1	<2.2
Aug-16	<2.2	110	<0.54	2.7	<0.72	140	<4.7	<0.028	<2.8	6.68	21.8	1.3	<2.2
Jul-17	<2.5	89	<0.6	2.7	<1.3	110	<4.7	<0.091	<5	7.32	22.5	4.5	<2.5

Notes:
Data is presented in units of µg/L unless otherwise noted
ND = Non-detect
J = Indicates value is between the method detection limit and practical quantitation limit and is an estimated concentration
Value following "<" represents the method detection limit

Historical Water Quality Data for UBC025

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Apr-01	ND	ND	ND	2.43	ND	177	ND	ND	ND	6.87	19.7	0.74	ND
Oct-01	ND	ND	ND	2.55	ND	167	ND	ND	ND	6.9	20	0.64	ND
Apr-02	ND	ND	ND	2.73	ND	173	ND	ND	ND	7.06	20	0.5	ND
Oct-02	ND	ND	ND	2.78	ND	170	ND	ND	ND	7.48	19.6	0.2	ND
Apr-03	ND	ND	ND	2.74	ND	164	ND	ND	ND	7.32	18.9	3.14	ND
Oct-03	ND	ND	ND	2.86	ND	164	ND	ND	ND	7.23	18.9	0.78	ND
Jul-04	ND	ND	ND	2.86	ND	184	ND	ND	ND	7	19.7	0.12	ND
Jul-05	ND	ND	ND	2.67	ND	160	ND	ND	ND	6.8	20.7	4.3	ND
Aug-06	<1.5	81.4 J	<1.0	2.78	<1.0	165	<2.5	0.0604 J	<1.0	7.2	23	2.21	5.76 J
Aug-07	<1.5	87.9 J	<1.0	2.69	<1.0	188	<2.5	<0.03	<1.0	6.9	21.2	1.14	5.94 J
Aug-08	<1.5	88.4 J	<1.0	2.72	<2.0	161	<2.5	<0.03	<1.0	6.9	21.8	11	4.43 J
Jul-09	2.26 J	87.3 J	<1.0	2.62	<1.0	154	<3.3	<0.066	<1.5	6.7	20.8	2.3	7.9 J
Aug-10	<1.6	87.2 J	<1.0	2.73	<1.0	146	<3.3	<0.066	<1.5	6.9	21.2	7.86	5.26 J
Aug-11	<1.7	87.2 J	<1.0	2.67	<1.0	140	<3.3	<0.066	<1.5	7	21.5	9.98	<3.3
Aug-12	<4.0	<7.5	<0.6	2.9	<2.1	146	<1.9	<0.053	<10	6.65	22.8	1.3	<4.5
Aug-13	<4.0	<7.5	<0.6	2.8	<2.1	179	<1.9	<0.015	<10	6.75	27.3	2.5	<4.5
Jul-14	<4.0	<7.5	<0.6	3	<2.1	159	<1.9	<0.015	<10	6.32	22.6	3.2	<4.5
Aug-15	<2.2	<1.9	<0.54	2.9	<0.72	163	<4.7	<0.028	<2.8	6.99	24.1	1.1	<2.2
Aug-16	<2.2	<1.9	<0.54	3	<0.72	130	<4.7	<0.028	<2.8	6.54	21.8	1.5	<2.2
Jul-17	<2.5	89	<0.6	2.9	<1.3	110	<4.7	<0.091	<5	7.23	21.5	2	<2.5

Notes:
Data is presented in units of µg/L unless otherwise noted
ND = Non-detect
J = Indicates value is between the method detection limit and practical quantitation limit and is an estimated concentration
Value following "<" represents the method detection limit

Historical Water Quality Data for UBC026

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Apr-01	ND	ND	ND	2.59	ND	201	ND	ND	ND	7.6	17.9	7.48	ND
Oct-01	ND	ND	ND	2.18	ND	189	ND	ND	ND	7.41	18.3	1.6	ND
Apr-02	ND	ND	ND	2.64	ND	159	ND	ND	ND	7.58	20	3.74	ND
Oct-02	ND	ND	ND	2.68	ND	193	ND	ND	ND	8.37	18.5	2.18	ND
Apr-03	ND	ND	ND	2.6	ND	165	ND	ND	ND	7.78	18.9	2.19	ND
Oct-03	ND	ND	ND	2.71	ND	189	ND	ND	ND	7.25	19.4	6.87	ND
Jul-04	ND	ND	ND	2.66	ND	174	ND	ND	ND	7.9	19.3	20.3	ND
Jul-05	ND	ND	ND	2.55	ND	177	ND	ND	ND	7.5	21.1	6.23	ND
Aug-06	<1.5	75.3 J	<1.0	2.69	<1.0	185	3.8 J	<0.06	<1.0	8.1	20.8	9.29	5.91 J
Aug-07	<1.5	78.4 J	<1.0	2.61	<1.0	165	<2.5	<0.03	<1.0	8.7	21.8	1.33	4.52 J
Aug-08	<1.5	80.3 J	<1.0	2.6	<2.0	147	<2.5	<0.03	<1.0	8	21.5	8.3	8.58 J
Jul-09	<1.6	78.3 J	<1.0	2.46	1.06 J	172	<3.3	<0.066	<1.5	7.9	21.9	3.05	<3.3
Aug-10	<1.6	77.8 J	<1.0	2.67	<1.0	164	<3.3	<0.066	<1.5	8.2	21.3	8.74	4.18 J
Aug-11	<1.7	79.6 J	<1.0	2.56	<1.0	158	<3.3	<0.066	<1.5	8.1	21.1	14.6	<3.3
Aug-12	<4.0	<7.5	<0.6	2.8	<2.1	171	<1.9	<0.053	<10	7.6	23.5	4.1	<4.5
Aug-13	<4.0	<7.5	<0.6	2.8	<2.1	172	<1.9	<0.015	<10	7.52	21.8	1.2	<4.5
Jul-14	<4.0	<7.5	<0.6	2.9	<2.1	186	<1.9	<0.015	<10	7.96	25.7	3	<4.5
Aug-15	<2.2	<1.9	<0.54	2.8	<0.72	175	<4.7	<0.028	<2.8	6.89	22.6	4	<2.2
Aug-16	<2.2	<1.9	<0.54	2.9	<0.72	150	<4.7	<0.028	<2.8	7.89	24.2	2.8	<2.2
Jul-17	<2.5	87	<0.6	2.9	<1.3	120	<4.7	<0.091	<5	7.33	21.7	2.1	<2.5

Notes:
Data is presented in units of µg/L unless otherwise noted
ND = Non-detect
J = Indicates value is between the method detection limit and practical quantitation limit and is an estimated concentration
Value following "<" represents the method detection limit

Historical Water Quality Data for UBC027

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Apr-01	ND	ND	ND	2.5	ND	187	ND	ND	ND	6.94	19.7	1.43	ND
Oct-01	ND	ND	ND	2.39	ND	175	ND	ND	ND	6.93	20	0.55	ND
Apr-02	ND	ND	ND	2.65	ND	168	ND	ND	ND	7.16	20	0.06	ND
Oct-02	ND	ND	ND	2.78	ND	159	ND	ND	ND	7.19	19.5	1.23	ND
Apr-03	ND	ND	ND	2.74	ND	157	ND	ND	ND	7.3	19.2	0.15	ND
Oct-03	ND	ND	ND	2.86	ND	153	ND	ND	ND	7.09	18.3	0.74	ND
Jul-04	ND	ND	ND	2.8	ND	176	ND	ND	ND	7	19.6	1.01	ND
Jul-05	ND	ND	ND	2.62	ND	158	ND	ND	ND	6.9	20.8	5.76	ND
Aug-06	<1.5	77.9 J	<1.0	2.78	<1.0	161	5.03 J	<0.06	<1.0	7.3	22.3	1.86	5.32 J
Aug-07	<1.5	81.3 J	<1.0	2.67	<1.0	170	<2.5	<0.03	<1.0	6.8	21.2	2.4	4.4 J
Aug-08	<1.5	84.7 J	<1.0	2.68	<2.0	160	<2.5	<0.03	<1.0	6.9	21	8.59	4.05 J
Jul-09	<1.6	80.8 J	<1.0	2.58	<1.0	138	<3.3	<0.066	<1.5	6.6	20.7	3.78	6.53 J
Aug-10	<1.6	84.7 J	<1.0	2.14	<1.0	136	<3.3	<0.066	<1.5	6.9	21.4	9.32	5.08 J
Aug-11	<1.7	81.5 J	<1.0	2.61	<1.0	139	<3.3	<0.066	<1.5	6.9	22.2	13.6	<3.3
Aug-12	<4.0	<7.5	<0.6	2.8	<2.1	141	<1.9	<0.053	<10	6.22	23.9	2.3	<4.5
Aug-13	<4.0	<7.5	<0.6	2.7	<2.1	171	<1.9	<0.015	<10	6.63	21.7	1.7	<4.5
Jul-14	<4.0	<7.5	<0.6	2.9	<2.1	150	<1.9	<0.015	<10	6.3	22.1	3.7	<4.5
Aug-15	<2.2	<1.9	<0.54	2.9	<0.72	149	<4.7	<0.028	<2.8	6.98	23.5	4	<2.2
Aug-16	<2.2	<1.9	<0.54	2.9	<0.72	130	<4.7	<0.028	<2.8	6.61	21.6	1.4	<2.2
Jul-17	<2.5	85	<0.6	2.8	<1.3	100	<4.7	<0.091	<5	7.28	21.8	1.7	<2.5

Notes:
Data is presented in units of µg/L unless otherwise noted
ND = Non-detect
J = Indicates value is between the method detection limit and practical quantitation limit and is an estimated concentration
Value following "<" represents the method detection limit

Historical Water Quality Data for UBC028AR

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Apr-01	ND	132	ND	ND	ND	256	ND	ND	ND	6.89	19.7	2.6	ND
Oct-01	ND	154	ND	2.03	ND	250	ND	ND	ND	6.81	21.7	2.41	ND
Apr-02	ND	135	ND	2.3	ND	272	ND	ND	ND	6.95	21.3	2.55	ND
Oct-02	ND	135	ND	2.4	ND	242	ND	ND	ND	7.23	18.9	1.49	ND
Apr-03	ND	126	ND	2.41	ND	255	ND	ND	ND	7.27	19.4	4.21	ND
Oct-03	ND	125	ND	2.44	ND	245	ND	ND	ND	6.97	18.3	3.18	ND
Jul-04	ND	127	ND	2.46	ND	286	ND	ND	ND	7.2	20.6	13.43	ND
Jul-05	ND	119	ND	2.34	ND	257	ND	ND	ND	6.8	22.1	2.7	ND
Aug-06	<1.5	89.4 J	<1.0	2.57	1.21 J	276	4.57 J	<0.06	<1.0	7.1	21.8	1.39	7.03 J
Aug-07	1.9 J	87.5 J	<1.0	2.44	1.25 J	307	<2.5	<0.03	<1.0	6.7	21.2	3.8	5.77 J
Aug-08	<1.5	59.4 J	<1.0	2.53	2.83 J	253	<2.5	<0.03	<1.0	6.7	21.7	10.6	4.16 J
Jul-09	2.94 J	52.5 J	<1.0	2.54	5.21 J	253	<3.3	<0.066	<1.5	7.2	22.3	2.32	8.15 J
Aug-10	<1.6	49.3 J	<1.0	2.72	4.53 J	251	<3.3	<0.066	<1.5	7.1	22.5	10.3	6.22 J
Aug-11	<1.7	60.8 J	<1.0	2.46	<1.0	242	<3.3	<0.066	<1.5	6.9	21.6	11.7	<3.3
Aug-12	<4.0	<7.5	<0.6	3	<2.1	246	<1.9	<0.053	<10	6.77	25.6	3.8	<4.5
Aug-13	<4.0	<7.5	<0.6	2.9	<2.1	286	<1.9	<0.015	<10	6.99	23.6	2.6	<4.5
Jul-14	<4.0	<7.5	<0.6	3	<2.1	235	<1.9	<0.015	<10	6.84	22.5	8.1	<4.5
Aug-15	<2.2	<1.9	<0.54	2.9	<0.72	275	<4.7	<0.028	<2.8	7.67	29.3	3.6	<2.2
Aug-16	<2.2	<1.9	<0.54	3.1	<0.72	170	<4.7	<0.028	<2.8	6.69	22.1	2.7	<2.2
Jul-17	<2.5	40	<0.6	3.1	<1.3	120	<4.7	<0.091	<5	7.03	21.1	2.4	<2.5

Notes:
Data is presented in units of µg/L unless otherwise noted
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J = Indicates value is between the method detection limit and practical quantitation limit and is an estimated concentration
Value following "<" represents the method detection limit

Historical Water Quality Data for UBC029AR

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Apr-01	ND	ND	ND	2.63	ND	120	ND	ND	ND	6.38	20	1.2	ND
Oct-01	ND	ND	ND	2.44	ND	131	ND	ND	ND	6.54	18.7	1.39	ND
Apr-02	ND	ND	ND	8.52	ND	127	ND	ND	ND	6.55	20	9.35	ND
Oct-02	ND	ND	ND	2.53	ND	142	ND	ND	ND	6.56	18.9	16.9	ND
Apr-03	ND	ND	ND	2.58	ND	179	ND	ND	ND	6.71	17.2	3.07	ND
Oct-03	ND	ND	ND	2.69	ND	137	ND	ND	ND	6.83	19.7	5.22	ND
Jul-04	ND	ND	ND	2.43	ND	187	ND	ND	ND	6.5	20.6	1.51	ND
Jul-05	ND	ND	ND	2.29	ND	172	ND	ND	ND	6.5	20.5	1.1	ND
Aug-06	<1.5	92.9 J	<1.0	2.18	2.29 J	349	<2.5	<0.06	1.59 J	6.58	21.3	4.25	7.44 J
Aug-07	<1.5	50 J	<1.0	2.18	<1.0	168	<2.5	<0.03	<1.0	7.2	22.4	10.9	<2.0
Aug-08	<1.5	41.1 J	<1.0	2.3	<2.0	80	<2.5	<0.03	<1.0	6.7	21.5	11.1	7.36 J
Jul-09	<1.6	59.2 J	<1.0	2.28	5.51 J	163	<3.3	<0.066	2.64 J	6.5	21.8	3.29	<3.3
Aug-10	<1.6	59.1 J	<1.0	2.45	<1.0	141	<3.3	<0.066	<1.5	6.7	21.7	9.37	<3.3
Aug-11	<1.7	74.2 J	<1.0	2.41	1.55 J	140	<3.3	0.1 J	<1.5	6.8	21.1	11.6	<3.3
Aug-12	<4.0	<7.5	<0.6	2.5	<2.1	133	<1.9	<0.053	<10	6.48	24.2	6.7	<4.5
Aug-13	<4.0	<7.5	<0.6	2.7	<2.1	143	<1.9	<0.015	<10	6.47	23.8	ND	<4.5
Jul-14	<4.0	<7.5	<0.6	2.6	<2.1	145	<1.9	<0.015	<10	6.39	23.7	2.9	<4.5
Aug-15	<2.2	<1.9	<0.54	2.6	<0.72	147	<4.7	<0.028	<2.8	7.19	25.2	4.9	<2.2
Aug-16	<2.2	<1.9	<0.54	2.6	<0.72	120	<4.7	<0.028	<2.8	5.76	21.9	ND	<2.2
Jul-17	<2.5	59	<0.6	2.7	<1.3	100	<4.7	<0.091	<5	6.64	22	1.7	<2.5

Notes:
Data is presented in units of µg/L unless otherwise noted
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Value following "<" represents the method detection limit

Historical Water Quality Data for UBC030

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Apr-01	ND	ND	ND	2.75	ND	468	ND	ND	ND	6.11	18.8	6.67	ND
Oct-01	ND	ND	ND	2.91	ND	255	ND	ND	ND	6.64	21.1	1.16	ND
Apr-02	ND	147	ND	3.84	ND	313	ND	ND	ND	7.53	20.6	7.04	ND
Oct-02	ND	ND	ND	3.29	ND	256	ND	ND	ND	6.94	19.7	1.15	ND
Apr-03	ND	ND	ND	3.18	ND	362	ND	ND	ND	6.76	20	4.35	ND
Oct-03	ND	ND	ND	3.9	ND	419	ND	ND	ND	6.74	20	10.98	ND
Jul-04	ND	ND	ND	4.23	ND	489	ND	ND	ND	6.5	20.1	2.3	ND
Jul-05	ND	ND	ND	3.57	ND	384	ND	ND	ND	6.4	23.2	5.7	ND
Aug-06	<1.5	106	<1.0	3.67	3.05 J	185	<2.5	<0.06	5.11 J	6.3	22.8	4.38	14.6 J
Aug-07	<1.5	110	<1.0	3.8	<1.0	614	<2.5	<0.03	3.06 J	7	24.9	1.9	7.09 J
Aug-08	<1.5	96.4 J	<1.0	3.39	3.79 J	355	<2.5	<0.03	4.28 J	6.7	22.1	16	4.04 J
Jul-09	<1.6	80.5 J	<1.0	2.83	4.13 J	342	<3.3	<0.066	3.67 J	6.4	23.6	3.92	5.1 J
Aug-10	<1.6	65.9 J	<1.0	2.79	1.5 J	275	<3.3	<0.066	3.14 J	6.3	26.6	9.47	5.2 J
Aug-11	<1.7	61.1 J	<1.0	2.58	4.97 J	241	<3.3	<0.066	2.18 J	6.7	20.9	10.3	<3.3
Aug-12	<4.0	<7.5	<0.6	2.6	<2.1	205	<1.9	<0.053	<10	6.63	24.2	10	<4.5
Aug-13	<4.0	<7.5	<0.6	2.5	<2.1	176	<1.9	<0.015	<10	6.54	25.4	2.7	<4.5
Jul-14	<4.0	<7.5	<0.6	2.8	<2.1	194	<1.9	<0.015	<10	6.83	27.5	7.1	<4.5
Aug-15	<2.2	<1.9	<0.54	2.7	<0.72	183	<4.7	<0.028	<2.8	6.58	26.7	8.7	<2.2
Aug-16	<2.2	<1.9	<0.54	2.9	<0.72	150	<4.7	<0.028	<2.8	6.72	25	1.6	<2.2
Jul-17	<2.5	56	<0.6	2.8	<1.3	120	<4.7	<0.091	<5	5.97	26.7	2.8	<2.5

Notes:
Data is presented in units of µg/L unless otherwise noted
ND = Non-detect
J = Indicates value is between the method detection limit and practical quantitation limit and is an estimated concentration
Value following "<" represents the method detection limit

Historical Water Quality Data for UBC031

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Apr-01	ND	ND	ND	2.13	ND	143	ND	ND	ND	6.71	18.4	1.14	ND
Oct-01	ND	ND	ND	2.59	ND	133	ND	ND	ND	6.72	18.3	4.15	ND
Apr-02	ND	ND	ND	2.5	ND	141	ND	ND	ND	6.58	20	3	ND
Oct-02	ND	ND	ND	2.6	ND	147	ND	ND	ND	6.84	18.9	0.99	ND
Apr-03	ND	138	ND	2.57	ND	147	ND	ND	ND	6.76	18.9	1.35	ND
Oct-03	ND	ND	ND	2.67	ND	126	ND	ND	ND	6.96	18.9	0.93	ND
Jul-04	ND	ND	ND	2.6	ND	126	ND	ND	ND	7.1	19	1.48	ND
Jul-05	ND	ND	ND	2.4	ND	148	ND	ND	ND	6.6	21	1.73	ND
Aug-06	<1.5	58.5 J	<1.0	2.51	<1.0	134	<2.5	<0.06	<1.0	6.4	20.2	3.79	7.2 J
Aug-07	<1.5	63 J	<1.0	2.45	<1.0	159	<2.5	<0.03	<1.0	6.9	23	1.69	<2.0
Aug-08	<1.5	69.3 J	<1.0	2.66	<2.0	109	<2.5	<0.03	<1.0	6.9	22.4	15.1	3.55 J
Jul-09	<1.6	70.1 J	<1.0	2.43	<1.0	126	<3.3	<0.066	<1.5	6.3	20.7	2.57	<3.3
Aug-10	<1.6	69.5 J	<1.0	2.58	<1.0	114	<3.3	<0.066	<1.5	6.6	22	8.81	4.72 J
Aug-11	<1.7	70.6 J	<1.0	2.5	<1.0	132	<3.3	<0.066	<1.5	6.8	21.5	9.5	<3.3
Aug-12	<4.0	<7.5	<0.6	2.6	<2.1	120	<1.9	<0.053	<10	6.97	24.5	2.9	<4.5
Aug-13	<4.0	<7.5	<0.6	2.6	<2.1	124	<1.9	<0.015	<10	6.76	22.3	1.5	<4.5
Jul-14	<4.0	<7.5	<0.6	2.8	<2.1	121	<1.9	<0.015	<10	6.37	23.6	3.8	<4.5
Aug-15	<2.2	<1.9	<0.54	2.7	<0.72	131	<4.7	<0.28	<2.8	6.45	22.9	2.2	<2.2
Aug-16	<2.2	<1.9	<0.54	2.8	<0.72	110	<4.7	<0.28	<2.8	6.39	21.6	1.1	<2.2
Jul-17	<2.5	69	<0.6	2.8	<1.3	100	<4.7	<0.091	<5	6.06	24.4	2.3	<2.5

Notes:
Data is presented in units of µg/L unless otherwise noted
ND = Non-detect
J = Indicates value is between the method detection limit and practical quantitation limit and is an estimated concentration
Value following "<" represents the method detection limit

Historical Water Quality Data for UBC034

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Mar-02	ND	ND	ND	2.52	ND	186	ND	ND	ND	6.65	19.2	3.3	ND
Apr-02	ND	ND	ND	8.78	ND	119	ND	ND	ND	6.78	19.2	0.64	ND
Oct-02	ND	ND	ND	2.61	ND	146	ND	ND	ND	6.62	19.2	0.39	ND
Apr-03	ND	ND	ND	2.68	ND	166	ND	ND	ND	6.74	17.6	0.12	ND
Oct-03	ND	ND	ND	2.72	ND	151	ND	ND	ND	6.73	19.4	1.8	ND
Jul-04	ND	ND	ND	2.64	ND	185	ND	ND	ND	7	20.6	3.8	ND
Jul-05	ND	ND	ND	2.39	ND	142	ND	ND	ND	6.7	21.4	2.33	ND
Aug-06	1.82 J	74.6 J	<1.0	2.46	<1.0	228	<2.5	<0.06	1.67 J	6.4	21.8	1.57	8.27 J
Aug-07	<1.5	61.7 J	<1.0	2.45	<1.0	349	<2.5	<0.03	<1.0	6.2	20.1	0.91	8.07 J
Aug-08	<1.5	31.7 J	<1.0	2.31	<2.0	341	<2.5	<0.03	<1.0	6.3	20.7	6.99	8.12 J
Jul-09	<1.6	26.6 J	<1.0	2.01	1.01 J	255	<3.3	<0.066	<1.5	5.8	21	2.67	3.38 J
Jul-10	<1.6	19.5 J	<1.0	2.11	<1.0	230	<3.3	<0.066	2.58 J	6.4	20.6	8.8	4.45 J
Aug-11	<1.7	18.6 J	<1.0	2.09	1.02 J	211	<3.3	0.083 J	<1.5	6.5	21.1	10.6	<3.3
Aug-12	<4.0	<7.5	<0.6	2.2	<2.1	173	<1.9	<0.053	<10	6.35	23.1	7.1	<4.5
Aug-13	<4.0	<7.5	<0.6	2.2	<2.1	182	<1.9	<0.015	<10	6.54	21.2	3.6	<4.5
Jul-14	<4.0	<7.5	<0.6	2.5	<2.1	190	<1.9	<0.015	<10	7.12	24.5	2.9	<4.5
Aug-15	<2.2	<1.9	<0.54	2.6	<0.72	197	<4.7	<0.028	<2.8	6.33	24.5	1.6	<2.2
Aug-16	<2.2	<1.9	<0.54	2.6	<0.72	140	<4.7	<0.028	<2.8	5.63	21.2	ND	<2.2
Jul-17	<2.5	<3.1	<0.6	2.6	<1.3	120	<4.7	<0.091	<5	6.81	22.2	1.8	<2.5

Notes:
Data is presented in units of µg/L unless otherwise noted
ND = Non-detect
J = Indicates value is between the method detection limit and practical quantitation limit and is an estimated concentration
Value following "<" represents the method detection limit

Historical Water Quality Data for UBC035

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Mar-02	ND	ND	ND	2.85	ND	345	ND	ND	ND	6.61	18.3	1.14	ND
Apr-02	ND	ND	ND	5.31	ND	340	ND	ND	ND	6.23	18.3	0.9	ND
Oct-02	ND	ND	ND	7.94	ND	1238	ND	ND	ND	5.79	19.4	0.86	ND
Apr-03	ND	ND	ND	15.2	ND	1621	ND	ND	ND	5.65	18.1	1.32	23.6
Oct-03	ND	ND	ND	16.8	ND	1720	ND	ND	ND	5.6	19.4	4.24	ND
Apr-04	-	-	-	-	-	1655	-	-	-	5.7	18.3	7.5	-
Jul-04	ND	50.6	ND	15.1	ND	1465	ND	ND	ND	5.7	19.7	1.55	13.1

Notes:
Data is presented in units of µg/L unless otherwise noted
ND = Non-detect

Historical Water Quality Data for UBC036

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Mar-02	ND	100	ND	2.47	ND	185	ND	ND	ND	6.7	18.9	5.9	ND
Apr-02	ND	112	ND	2.45	ND	150	ND	ND	ND	6.8	20	14.5	ND
Oct-02	ND	112	ND	2.52	ND	151	ND	ND	ND	6.59	18.6	1.49	ND

Notes:
Data is presented in units of µg/L unless otherwise noted
ND = Non-detect

Historical Water Quality Data for UBC048

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Apr-01	ND	ND	ND	2.19	ND	138	ND	ND	ND	6.86	18.4	0.95	ND
Oct-01	ND	ND	ND	2.46	ND	140	ND	ND	ND	6.86	18.8	0.1	ND
Apr-02	ND	ND	ND	2.39	ND	117	ND	ND	ND	6.91	20	0.7	ND
Oct-02	ND	ND	ND	2.57	ND	148	ND	ND	ND	6.91	19.1	0.31	ND
Apr-03	ND	ND	ND	2.34	ND	140	ND	ND	ND	7.51	19	0.27	ND
Oct-03	ND	ND	ND	2.65	ND	136	ND	ND	ND	6.9	18.7	0.59	ND
Jul-04	ND	ND	ND	2.52	ND	155	ND	ND	ND	7	19.9	1.22	ND
Jul-05	ND	ND	ND	2.29	ND	150	ND	ND	ND	6.9	22	1.37	ND
Aug-06	<1.5	76.9 J	<1.0	2.43	<1.0	149	<2.5	<0.06	<1.0	7.6	21.8	5.81	7.4 J
Aug-07	<1.5	95.7 J	<1.0	2.51	<1.0	130	<2.5	<0.03	<1.0	7.2	22.8	0.82	<2.0
Aug-08	<1.5	87.5 J	<1.0	2.58	<2.0	158	<2.5	<0.03	<1.0	7.5	23.1	14.5	5.4 J
Feb-09	-	-	-	-	-	127	-	-	-	7.3	18.5	9.71	-
Jul-09	<1.6	81.4 J	<1.0	2.38	<1.0	134	<3.3	<0.066	<1.5	7.5	21.2	5.01	7.64 J
Aug-10	<1.6	74.8 J	<1.0	2.51	<1.0	124	<3.3	<0.066	<1.5	7.3	20.6	10.1	6.27 J
Aug-11	<1.7	75.8 J	<1.0	2.49	<1.0	132	<3.3	<0.066	<1.5	7.2	20.8	14	<3.3
Aug-12	<4.0	<7.5	<0.6	2.6	<2.1	132	<1.9	<0.053	<10	7.28	22.1	6.8	<4.5
Aug-13	<4.0	<7.5	<0.6	2.5	<2.1	133	<1.9	<0.015	<10	6.76	23.8	5.4	<4.5
Jul-14	<4.0	<7.5	<0.6	2.8	<2.1	137	<1.9	<0.015	<10	7.38	21.2	--	<4.5
Aug-15	<2.2	<1.9	<0.54	2.7	<0.72	131	<4.7	<0.028	<2.8	6.95	22.4	25	<2.2
Aug-16	<2.2	<1.9	<0.54	2.8	<0.72	120	<4.7	<0.028	<2.8	6.98	23.1	1.1	<2.2
Jul-17	<2.5	83	<0.6	2.7	<1.3	100	<4.7	<0.091	<5	7.09	21.4	3.3	<2.5

Notes:
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Value following "<" represents the method detection limit

Historical Water Quality Data for UBC049

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Apr-01	ND	ND	ND	2.24	ND	146	ND	ND	ND	6.8	18.1	0.57	ND
Oct-01	ND	ND	ND	2.56	ND	146	ND	ND	ND	6.72	19.4	0.71	ND
Apr-02	ND	ND	ND	2.44	ND	127	ND	ND	ND	7	20	6.35	ND
Oct-02	ND	ND	ND	2.59	ND	151	ND	ND	ND	6.94	19	0.51	ND
Apr-03	ND	ND	ND	2.55	ND	162	ND	ND	ND	7.1	19	0.17	ND
Oct-03	ND	ND	ND	2.61	ND	138	ND	ND	ND	6.82	18.9	1.72	ND
Jul-04	ND	ND	ND	2.59	ND	165	ND	ND	ND	6.8	19.3	-	ND
Jul-05	ND	ND	ND	2.43	ND	149	ND	ND	ND	6.8	21.3	2.58	ND
Aug-06	<1.5	79.3 J	<1.0	2.51	1.06 J	140	<2.5	<0.06	<1.0	6.6	23.1	9.14	7.5 J
Aug-07	<1.5	87.1 J	<1.0	2.51	<1.0	168	<2.5	<0.03	<1.0	6.9	22.5	1.04	<2.0
Aug-08	<1.5	88.3 J	<1.0	2.49	<2.0	121	<2.5	<0.03	<1.0	6.5	23.3	16.3	3.36 J
Jul-09	<1.6	85.9 J	<1.0	2.41	<1.0	132	<3.3	<0.066	<1.5	6.6	21	4.56	6.52 J
Aug-10	<1.6	84.5 J	<1.0	2.56	<1.0	122	<3.3	<0.066	<1.5	6.7	21.6	8.97	4.28 J
Aug-11	<1.7	88.3 J	<1.0	2.51	<1.0	120	<3.3	<0.066	<1.5	6.8	21.4	9.71	<3.3
Aug-12	<4.0	<7.5	<0.6	2.7	<2.1	126	<1.9	<0.053	<10	6.75	23	8.5	<4.5
Aug-13	<4.0	<7.5	<0.6	2.6	<2.1	140	<1.9	<0.015	<10	6.47	22.8	2.5	<4.5
Jul-14	<4.0	<7.5	<0.6	2.8	<2.1	139	<1.9	<0.015	<10	6.65	23.3	--	<4.5
Aug-15	<2.2	<1.9	<0.54	2.7	<0.72	132	<4.7	<0.028	<2.8	6.81	23	2.8	<2.2
Aug-16	<2.2	110	<0.54	2.8	<0.72	120	<4.7	<0.028	<2.8	6.29	23	1.9	<2.2
Jul-17	<2.5	94	<0.6	2.7	<1.3	100	<4.7	<0.091	<5	6.98	21.4	1.7	<2.5

Notes:
Data is presented in units of µg/L unless otherwise noted
ND = Non-detect
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Value following "<" represents the method detection limit

Historical Water Quality Data for UBC051

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Apr-01	ND	ND	ND	2.29	ND	176	ND	ND	ND	6.92	18.1	4.49	ND
Oct-01	ND	ND	ND	2.09	ND	163	ND	ND	ND	6.65	18.8	3.64	ND
Apr-02	ND	ND	ND	2.34	ND	135	ND	ND	ND	6.94	21.1	3.75	ND
Oct-02	ND	ND	ND	2.43	ND	168	ND	ND	ND	6.54	18.3	8.48	ND
Apr-03	ND	ND	ND	2.29	ND	181	ND	ND	ND	6.95	19.7	8.45	ND
Oct-03	ND	ND	ND	2.34	ND	219	ND	ND	ND	6.97	18.7	9.5	ND
Jul-04	ND	ND	ND	2.36	ND	197	ND	ND	ND	7	19.8	8.96	ND
Jul-05	ND	ND	ND	2.18	ND	183	ND	ND	ND	6.8	22.5	4.04	ND
Aug-06	<1.5	61.5 J	<1.0	2.16	3.35 J	172	<2.5	<0.06	<1.0	7.3	22.7	3.24	7.56 J
Aug-07	<1.5	75.4 J	<1.0	2.18	<1.0	184	<2.5	<0.03	<1.0	7.9	21.6	6.11	4.36 J
Aug-08	<1.5	62.6 J	<1.0	2.31	<2.0	142	<2.5	<0.03	<1.0	7.1	23.5	14.5	3.03 J
Jul-09	<1.6	59.7 J	<1.0	2.06	3.1 J	151	<3.3	<0.066	<1.5	7.3	22	2.33	<3.3
Aug-10	<1.6	69.4 J	<1.0	2.16	2.23 J	147	<3.3	<0.066	<1.5	6.7	32.4	10.1	6.13 J
Aug-11	<1.7	65.9 J	<1.0	2.08	1.83 J	187	5.35 J	<0.066	<1.5	7.4	21.7	13.9	<3.3
Aug-12	<4.0	<7.5	<0.6	2.1	<2.1	157	<1.9	<0.053	<10	7.24	24.5	6.5	<4.5
Aug-13	<4.0	<7.5	<0.6	2.2	<2.1	162	<1.9	<0.015	<10	7.31	23	4	<4.5
Jul-14	<4.0	<7.5	<0.6	2.2	<2.1	191	<1.9	<0.015	<10	7.72	25.2	24	<4.5
Aug-15	<2.2	<1.9	<0.54	2.1	<0.72	188	<4.7	<0.028	<2.8	6.78	26	7.2	<2.2
Aug-16	<2.2	<1.9	<0.54	2	<0.72	150	<4.7	<0.028	<2.8	7.45	21.3	3	<2.2
Jul-17	<2.5	71	<0.6	2.2	<1.3	120	<4.7	<0.091	<5	6.55	27.5	5.8	<2.5

Notes:
Data is presented in units of µg/L unless otherwise noted
ND = Non-detect
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Value following "<" represents the method detection limit

Historical Water Quality Data for UBC052

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Apr-01	ND	ND	ND	2.29	ND	135	ND	ND	ND	6.75	19.3	7.58	ND
Oct-01	ND	ND	ND	2.31	ND	138	ND	ND	ND	6.63	19.4	17.9	ND
Apr-02	ND	ND	ND	2.56	ND	111	ND	ND	ND	6.83	20.6	9.45	ND
Oct-02	ND	ND	ND	2.62	ND	145	ND	ND	ND	8.02	19.6	7.67	ND
Apr-03	ND	ND	ND	2.61	ND	136	ND	ND	ND	6.71	19.4	10.03	ND
Oct-03	ND	ND	ND	2.6	ND	136	ND	ND	ND	7.47	20	16.09	ND
Jul-04	ND	ND	ND	2.62	ND	158	ND	ND	ND	6.7	20.3	12.29	ND
Jul-05	ND	ND	ND	2.44	ND	144	ND	ND	ND	6.5	24.5	11.7	ND
Aug-06	<1.5	51.9 J	<1.0	2.53	3.04 J	150	<2.5	<0.06	1.4 J	6.6	22.9	9.87	6.73 J
Aug-07	<1.5	55.3 J	<1.0	2.53	1.67 J	145	<2.5	<0.03	<1.0	7.4	23.4	13	3.7 J
Aug-08	<1.5	56.4 J	<1.0	2.6	<2.0	110	<2.5	<0.03	1.47 J	6.6	23.8	12.8	4.24 J
Jul-09	<1.6	56.6 J	<1.0	2.43	1.9 J	163	<3.3	<0.066	<1.5	6.6	23	7.38	<3.3
Aug-10	<1.6	54.3 J	<1.0	2.55	2.11 J	123	<3.3	<0.066	<1.5	6.5	22.6	8.97	6.25 J
Aug-11	<1.7	57.2 J	<1.0	2.47	3.92 J	127	<3.3	<0.066	1.52 J	7	22	11	<3.3
Aug-12	<4.0	<7.5	<0.6	19	<2.1	131	<1.9	<0.053	<10	6.74	24.5	6.1	<4.5
Aug-13	<4.0	<7.5	<0.6	2.6	<2.1	134	<1.9	<0.015	<10	6.55	22.5	6.4	<4.5
Jul-14	<4.0	<7.5	<0.6	2.9	<2.1	165	<1.9	<0.015	<10	6.74	29.8	8.9	<4.5
Aug-15	<2.2	<1.9	<0.54	2.7	<0.72	149	<4.7	<0.028	<2.8	6.39	23.7	7.9	<2.2
Aug-16	<2.2	<1.9	<0.54	2.8	<0.72	120	<4.7	<0.028	<2.8	6.72	26.1	3.6	<2.2
Jul-17	<2.5	62	<0.6	2.9	<1.3	100	<4.7	<0.091	<5	6.12	24.9	2.7	<2.5

Notes:
Data is presented in units of µg/L unless otherwise noted
ND = Non-detect
J = Indicates value is between the method detection limit and practical quantitation limit and is an estimated concentration
Value following "<" represents the method detection limit

Historical Water Quality Data for UBC053

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Mar-02	ND	ND	ND	3.63	ND	251	ND	ND	ND	8.68	18.6	1.48	ND
Apr-02	ND	ND	ND	3.17	ND	186	ND	ND	ND	7.38	19.4	2.09	ND
Oct-02	ND	ND	ND	3.07	ND	210	ND	ND	ND	7.95	20	2.21	ND
Apr-03	ND	ND	ND	3.53	ND	162	ND	ND	ND	8.52	18.7	1.52	ND
Oct-03	ND	ND	ND	3.4	ND	188	ND	ND	ND	7.18	20	1.07	ND
Jul-04	ND	ND	ND	6.91	ND	317	ND	ND	ND	7.6	20	1.86	ND
Jul-05	ND	ND	ND	8.85	ND	378	ND	ND	ND	7.6	20.7	1.7	ND
Aug-06	<1.5	45.6 J	<1.0	6.98	<1.0	296	<2.5	<0.06	<1.0	7.2	21	1.92	9.9 J
Aug-07	<1.5	50.3 J	<1.0	7.61	<1.0	347	<2.5	<0.03	<1.0	7.4	21.1	3.21	7.62 J
Nov-07	2.97 J	45 J	<1.0	4.97	<1.0	-	<2.5	<0.03	<1.0	-	-	-	4.49 J
Feb-08	-	-	-	-	-	266	-	-	-	7.8	20.2	0.94	-
Jul-08	<1.5	51.4 J	<1.0	6.47	<2.0	280	<2.5	<0.03	<1.0	7.3	21.2	8.6	5.23 J
Nov-08	-	-	-	-	-	288	-	-	-	7.5	19.9	7.24	-
Jan-09	-	-	-	-	-	270	-	-	-	7.4	18.8	5.09	-
Apr-09	-	-	-	-	-	267	-	-	-	7.4	20.8	8.73	-
Jul-09	<1.6	54.5 J	<1.0	4.74	<1.0	250	<3.3	<0.066	<1.5	7.4	20.8	2.43	8.36 J
Oct-09	-	-	-	-	-	201	-	-	-	7.5	18.8	3.66	-
Jan-10	-	-	-	-	-	215	-	-	-	7.2	19.1	5.31	-
May-10	-	-	-	-	-	254	-	-	-	7	20.7	5.25	-
Nov-07	-	-	-	-	-	249	-	-	-	7.7	19.1	2.51	-
Jul-10	<1.6	56.1 J	<1.0	5.45	<1.0	233	<3.3	<0.066	<1.5	7.9	21	6.66	3.67 J
Nov-10	-	-	-	-	-	203	-	-	-	7	18.1	9.6	-
Feb-11	-	-	-	-	-	196	-	-	-	7.2	19.2	7.13	-
May-11	-	-	-	-	-	191	-	-	-	7.3	20.7	8.49	-
Jul-11	<1.7	62.1 J	<1.0	3.78	<1.0	217	<3.3	<0.066	<1.5	7.6	20.9	10.6	<3.3
Nov-11	<1.7	59.1 J	<1.0	2.97	1.94	219	<3.3	-	<1.5	7.4	19.9	13.9	<3.3
Feb-12	-	-	-	-	-	196	-	-	-	7.17	25	-	-
May-12	-	-	-	-	-	198	-	-	-	7.28	21.4	2.6	-
Aug-12	<4.0	<7.5	<0.6	3	<2.1	ND	<1.9	<0.053	<10	7.15	20	ND	<4.5
Jul-13	<4.0	<7.5	<0.6	2.8	<2.1	183	<1.9	<0.015	<10	7.29	21.5	2.8	<4.5
Jul-14	<4.0	<7.5	<0.6	2.8	<2.1	221	<1.9	<0.015	<10	7.73	26.9	6.9	<4.5
Aug-15	<2.2	<1.9	<0.54	2.6	<0.72	179	<4.7	<0.028	<2.8	6.87	23.3	2.3	<2.2
Jul-16	<2.2	<1.9	<0.54	2.8	<0.72	170	<4.7	<0.028	<2.8	6.58	25	ND	<2.2
Jul-17	<2.5	78	<0.6	2.8	<1.3	120	<4.7	<0.091	<5	6.58	21	1.5	<2.5

Notes:
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Value following "<" represents the method detection limit

Historical Water Quality Data for UBC057

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Mar-15	<2.2	<1.9	<0.54	**2.7**	<0.72	**170**	<4.7	<0.028	<2.8	**7.03**	**19.4**	**62**	<2.2
May-15	<2.2	<1.9	<0.54	**2.7**	<0.72	**153**	<4.7	<0.028	<2.8	**6.8**	**18.1**	**8.9**	<2.2
Aug-15	<2.2	**100**	<0.54	**2.5**	<0.72	**190**	<4.7	<0.028	<2.8	**6.73**	**28.2**	**35**	<2.2
Oct-15	<2.2	<1.9	<0.54	**2.7**	<0.72	**163**	<4.7	<0.028	<2.8	**6.56**	**23**	**7.9**	<2.2
Aug-16	<2.2	<1.9	<0.54	**2.7**	<0.72	**130**	<4.7	<0.028	<2.8	**6.8**	**24.8**	**24**	<2.2
Jul-17	<2.5	**94**	<0.6	**2.5**	<1.3	**100**	<4.7	<0.091	<5	**7.08**	**22**	**14**	<2.5

Notes:
Data is presented in units of µg/L unless otherwise noted
Value following "<" represents the method detection limit

Historical Water Quality Data for UBC058

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Mar-15	<2.2	<1.9	<0.54	**2.5**	<0.72	**189**	<4.7	<0.028	<2.8	**6.88**	**20.6**	**12**	<2.2
May-15	<2.2	<1.9	<0.54	**2.6**	<0.72	**132**	<4.7	<0.028	<2.8	**6.87**	**18.9**	**2.3**	<2.2
Aug-15	<2.2	<1.9	<0.54	**2.5**	<0.72	**150**	<4.7	<0.028	<2.8	**6.8**	**22.9**	**1.7**	<2.2
Nov-15	<2.2	<1.9	<0.54	**2.6**	<0.72	**164**	<4.7	<0.028	<2.8	**6.67**	**19.3**	**2.9**	<2.2
Aug-16	<2.2	<1.9	<0.54	**2.7**	<0.72	**130**	<4.7	<0.028	<2.8	**6.43**	**24.8**	**1.1**	<2.2
Jul-17	<2.5	**73**	<0.6	**2.6**	<1.3	**110**	<4.7	<0.091	<5	**7.06**	**20.9**	**3**	<2.5

Notes:
Data is presented in units of µg/L unless otherwise noted
Value following "<" represents the method detection limit

Historical Water Quality Data for UBC059

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Mar-15	<2.2	<1.9	<0.54	**2.7**	<0.72	**154**	<4.7	<0.028	<2.8	**6.83**	**16.2**	**1.4**	<2.2
May-15	<2.2	<1.9	<0.54	**2.6**	<0.72	**125**	<4.7	<0.028	<2.8	**6.88**	**20.7**	**2**	<2.2
Aug-15	<2.2	<1.9	<0.54	**2.7**	<0.72	**135**	<4.7	<0.028	<2.8	**6.55**	**23.5**	**1.3**	<2.2
Nov-15	<2.2	<1.9	<0.54	**2.7**	<0.72	**144**	<4.7	<0.028	<2.8	**6.68**	**19.7**	**6.7**	<2.2
Aug-16	<2.2	<1.9	<0.54	**2.7**	<0.72	**110**	<4.7	<0.028	<2.8	**6.15**	**21.3**	**1.4**	<2.2
Jul-17	<2.5	**83**	<0.6	**2.6**	<1.3	**100**	<4.7	<0.091	<5	**6.88**	**21.6**	**2.9**	<2.5

Notes:
Data is presented in units of µg/L unless otherwise noted
Value following "<" represents the method detection limit

Historical Water Quality Data for UBC060

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Mar-15	<2.2	<1.9	<0.54	**2.5**	<0.72	**151**	<4.7	<0.028	<2.8	**7.2**	**21.2**	**14**	<2.2
May-15	<2.2	<1.9	<0.54	**2.6**	<0.72	**146**	<4.7	<0.028	<2.8	**6.85**	**18.8**	**6.1**	<2.2
Aug-15	<2.2	<1.9	<0.54	**2.5**	<0.72	**179**	<4.7	<0.028	<2.8	**6.53**	**30.4**	**45**	<2.2
Nov-15	<2.2	<1.9	<0.54	**2.4**	<0.72	**171**	<4.7	<0.028	<2.8	**6.74**	**21.7**	**7.1**	<2.2
Aug-16	<2.2	<1.9	<0.54	**2.5**	<0.72	**150**	<4.7	<0.028	<2.8	**6.72**	**20.8**	**2**	<2.2
Jul-17	<2.5	**86**	<0.6	**2.3**	<1.3	**155**	<4.7	<0.091	<5	**6.92**	**21.6**	**--**	<2.5

Notes:
Data is presented in units of µg/L unless otherwise noted
Value following "<" represents the method detection limit

Historical Water Quality Data for UBC061

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Mar-15	<2.2	<1.9	<0.54	**3**	<0.72	**144**	<4.7	<0.028	<2.8	**6.78**	**20.4**	**10**	<2.2
May-15	<2.2	<1.9	<0.54	**3.3**	<0.72	**123**	<4.7	<0.028	<2.8	**6.74**	**18.7**	**5.9**	<2.2
Aug-15	<2.2	<1.9	<0.54	**3**	<0.72	**146**	<4.7	<0.028	<2.8	**6.59**	**20.9**	**0.9**	<2.2
Nov-15	<2.2	<1.9	<0.54	**3**	<0.72	**155**	<4.7	<0.028	<2.8	**6.79**	**20.6**	**1.8**	<2.2
Aug-15	<2.2	<1.9	<0.54	**3**	<0.72	**120**	<4.7	<0.028	<2.8	**6.38**	**21.8**	**1.1**	<2.2
Jul-17	<2.5	**71**	<0.6	**2.8**	<1.3	**100**	<4.7	<0.091	<5	**7.14**	**21.8**	**4.6**	<2.5

Notes:
Data is presented in units of µg/L unless otherwise noted
Value following "<" represents the method detection limit

Historical Water Quality Data for UBC062

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Mar-15	<2.2	<1.9	<0.54	**3.2**	<0.72	**177**	<4.7	<0.028	<2.8	**6.5**	**19.3**	**23**	<2.2
May-15	<2.2	<1.9	<0.54	**3.1**	<0.72	**158**	<4.7	<0.028	<2.8	**6.81**	**19**	**7.6**	<2.2
Aug-15	<2.2	<1.9	<0.54	**3**	<0.72	**194**	<4.7	<0.028	<2.8	**6.49**	**28.8**	**7.8**	<2.2
Nov-15	<2.2	<1.9	<0.54	**2.9**	<0.72	**192**	<4.7	<0.028	<2.8	**6.82**	**21.9**	**8**	<2.2
Aug-16	<2.2	<1.9	<0.54	**3**	<0.72	**140**	<4.7	<0.028	<2.8	**6.81**	**21.8**	**11**	<2.2
Jul-17	<2.5	**90**	<0.6	**2.8**	<1.3	**110**	<4.7	<0.091	<5	**7.28**	**21.3**	**5.2**	<2.5

Notes:
Data is presented in units of µg/L unless otherwise noted
Value following "<" represents the method detection limit

Historical Water Quality Data for UBC063

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Mar-15	<2.2	<1.9	<0.54	**2.9**	<0.72	**145**	<4.7	<0.028	<2.8	**6.85**	**16.9**	**5**	<2.2
May-15	<2.2	<1.9	<0.54	**3**	<0.72	**140**	<4.7	<0.028	<2.8	**6.9**	**20**	**1.1**	<2.2
Aug-15	<2.2	<1.9	<0.54	**2.8**	<0.72	**151**	<4.7	<0.028	<2.8	**6.13**	**24.4**	**6.8**	<2.2
Nov-15	<2.2	<1.9	<0.54	**3**	<0.72	**149**	<4.7	<0.028	<2.8	**6.76**	**19.8**	**3.5**	<2.2
Aug-16	<2.2	<1.9	<0.54	**3**	<0.72	**120**	<4.7	<0.028	<2.8	**6.39**	**21.3**	**1.2**	<2.2
Jul-17	<2.5	**89**	<0.6	**2.8**	<1.3	**100**	<4.7	<0.091	<5	**7.21**	**22**	**2.1**	<2.5

Notes:
Data is presented in units of µg/L unless otherwise noted
Value following "<" represents the method detection limit

NEW POINT OF COMPLIANCE WELLS

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Historical Water Quality Data for WT048

Date/Parameter	Arsenic	Barium	Cadmium	Chloride (mg/l)	Chromium	Conductivity (umhos/cm)	Lead	Mercury	Nickel	pH (std. units)	Temperature (Celsius)	Turbidity (NTU)	Zinc
Mar-15*	--	--	--	--	--	--	--	--	--	--	--	--	--
Apr-15*	--	--	--	--	--	--	--	--	--	--	--	--	--
Aug-15*	--	--	--	--	--	--	--	--	--	--	--	--	--
Nov-15	<2.2	<1.9	<0.54	13	<0.72	150	<4.7	<0.028	120	5.07	21.2	36	140
Mar-16	<2.2	240	7.1	15	60	--	<4.7	<0.028	140	--	--	--	240
Apr-16*	--	--	--	--	--	--	--	--	--	--	--	--	--
Sep-16	<2.2	270	<0.54	<10	58	--	<4.7	<0.028	140	--	--	--	120
Oct-16*	--	--	--	--	--	--	--	--	--	--	--	--	--
Jan-17*	--	--	--	--	--	--	--	--	--	--	--	--	--
Apr-17*	--	--	--	--	--	--	--	--	--	--	--	--	--
Jul-17*	--	--	--	--	--	--	--	--	--	--	--	--	--

Notes:
* = Well was dry, no sample was collected.
Data is presented in units of µg/L unless otherwise noted
Value following "<" represents the method detection limit

Appendix D

Third Quarter Statistical Analysis – Transitional Lang Syne

2017 Third Quarter Detection Monitoring Program Report
Pinewood Site
SCD 070375 985

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Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	
Arsenic	ug/L	MW126T	11/08/1995	ND	10.0000	
Arsenic	ug/L	MW126T	02/29/1996	ND	10.0000	
Arsenic	ug/L	MW126T	04/23/1996	ND	10.0000	
Arsenic	ug/L	MW126T	07/22/1996	ND	10.0000	
Arsenic	ug/L	MW126T	10/21/1996	ND	10.0000	
Arsenic	ug/L	MW126T	01/20/1997	ND	10.0000	
Arsenic	ug/L	MW126T	04/23/1997	ND	10.0000	
Arsenic	ug/L	MW126T	07/15/1997	ND	10.0000	
Arsenic	ug/L	MW126T	10/16/1997	ND	10.0000	
Arsenic	ug/L	MW126T	01/19/1998	ND	10.0000	
Arsenic	ug/L	MW126T	04/16/1998	ND	10.0000	
Arsenic	ug/L	MW126T	07/16/1998	ND	10.0000	
Arsenic	ug/L	MW126T	10/15/1998	ND	10.0000	
Arsenic	ug/L	MW126T	01/18/1999	ND	10.0000	
Arsenic	ug/L	MW126T	04/21/1999	ND	10.0000	
Arsenic	ug/L	MW126T	07/19/1999	ND	10.0000	
Arsenic	ug/L	MW126T	10/20/1999	ND	10.0000	
Arsenic	ug/L	MW126T	01/17/2000	ND	10.0000	
Arsenic	ug/L	MW126T	04/19/2000	ND	10.0000	
Arsenic	ug/L	MW126T	07/17/2000	ND	10.0000	
Arsenic	ug/L	MW126T	10/18/2000	ND	10.0000	
Arsenic	ug/L	MW126T	01/18/2001	ND	10.0000	
Arsenic	ug/L	MW126T	04/19/2001	ND	10.0000	
Arsenic	ug/L	MW126T	07/16/2001	ND	10.0000	
Arsenic	ug/L	MW126T	10/18/2001	ND	10.0000	
Arsenic	ug/L	MW126T	01/17/2002	ND	10.0000	
Arsenic	ug/L	MW126T	04/18/2002	ND	10.0000	
Arsenic	ug/L	MW126T	07/17/2002	ND	10.0000	
Arsenic	ug/L	MW126T	10/24/2002	ND	10.0000	
Arsenic	ug/L	MW126T	01/20/2003	ND	10.0000	
Arsenic	ug/L	MW126T	04/21/2003	ND	10.0000	
Arsenic	ug/L	MW126T	07/16/2003	ND	10.0000	
Arsenic	ug/L	MW126T	10/23/2003	ND	10.0000	
Arsenic	ug/L	MW126T	01/19/2004	ND	10.0000	
Arsenic	ug/L	MW126T	01/26/2005	ND	10.0000	
Arsenic	ug/L	MW126T	01/16/2006	ND	10.0000	
Arsenic	ug/L	MW126T	02/09/2007	ND	10.0000	
Arsenic	ug/L	MW126T	02/22/2008	ND	10.0000	
Arsenic	ug/L	MW126T	02/06/2009	ND	10.0000	
Arsenic	ug/L	MW126T	02/10/2010	ND	5.0000	
Arsenic	ug/L	MW126T	02/17/2011	ND	10.0000	
Arsenic	ug/L	MW126T	03/09/2012	ND	10.0000	
Arsenic	ug/L	MW126T	02/15/2013	ND	10.0000	
Arsenic	ug/L	MW126T	02/06/2014	ND	10.0000	
Arsenic	ug/L	MW126T	02/05/2015	ND	10.0000	
Arsenic	ug/L	MW126T	02/10/2016	ND	15.0000	
Arsenic	ug/L	MW126T	02/02/2017	ND	15.0000	
Arsenic	ug/L	MW96T	04/14/1993	ND	10.0000	
Arsenic	ug/L	MW96T	08/11/1993	ND	10.0000	
Arsenic	ug/L	MW96T	10/13/1993	ND	10.0000	
Arsenic	ug/L	MW96T	01/04/1994	ND	10.0000	
Arsenic	ug/L	MW96T	04/05/1994	ND	10.0000	
Arsenic	ug/L	MW96T	07/19/1994	ND	10.0000	
Arsenic	ug/L	MW96T	10/20/1994	ND	10.0000	
Arsenic	ug/L	MW96T	01/17/1995	ND	10.0000	
Arsenic	ug/L	MW96T	04/24/1995	ND	10.0000	
Arsenic	ug/L	MW96T	07/25/1995	ND	10.0000	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result
Arsenic	ug/L	MW96T	10/11/1995	ND	10.0000
Arsenic	ug/L	MW96T	01/17/1996	ND	10.0000
Arsenic	ug/L	MW96T	04/18/1996	ND	10.0000
Arsenic	ug/L	MW96T	07/18/1996	ND	10.0000
Arsenic	ug/L	MW96T	10/22/1996	ND	10.0000
Arsenic	ug/L	MW96T	01/21/1997	ND	10.0000
Arsenic	ug/L	MW96T	04/22/1997	ND	10.0000
Arsenic	ug/L	MW96T	07/15/1997	ND	10.0000
Arsenic	ug/L	MW96T	10/21/1997	ND	10.0000
Arsenic	ug/L	MW96T	01/15/1998	ND	10.0000
Arsenic	ug/L	MW96T	04/22/1998	ND	10.0000
Arsenic	ug/L	MW96T	07/16/1998	ND	10.0000
Arsenic	ug/L	MW96T	10/20/1998	ND	10.0000
Arsenic	ug/L	MW96T	01/20/1999	ND	10.0000
Arsenic	ug/L	MW96T	04/21/1999	ND	10.0000
Arsenic	ug/L	MW96T	07/20/1999	ND	10.0000
Arsenic	ug/L	MW96T	10/19/1999	ND	10.0000
Arsenic	ug/L	MW96T	01/19/2000	ND	10.0000
Arsenic	ug/L	MW96T	04/19/2000	ND	10.0000
Arsenic	ug/L	MW96T	07/19/2000	ND	10.0000
Arsenic	ug/L	MW96T	10/18/2000	ND	10.0000
Arsenic	ug/L	MW96T	01/17/2001	ND	10.0000
Arsenic	ug/L	MW96T	04/19/2001	ND	10.0000
Arsenic	ug/L	MW96T	07/18/2001	ND	10.0000
Arsenic	ug/L	MW96T	10/18/2001	ND	10.0000
Arsenic	ug/L	MW96T	01/16/2002	ND	10.0000
Arsenic	ug/L	MW96T	04/18/2002	ND	10.0000
Arsenic	ug/L	MW96T	07/18/2002	ND	10.0000
Arsenic	ug/L	MW96T	10/24/2002	ND	10.0000
Arsenic	ug/L	MW96T	01/21/2003	ND	10.0000
Arsenic	ug/L	MW96T	04/21/2003	ND	10.0000
Arsenic	ug/L	MW96T	07/16/2003	ND	10.0000
Arsenic	ug/L	MW96T	10/23/2003	ND	10.0000
Arsenic	ug/L	MW96T	01/20/2004	ND	10.0000
Arsenic	ug/L	MW96T	01/27/2005	ND	10.0000
Arsenic	ug/L	MW96T	01/17/2006	ND	10.0000
Arsenic	ug/L	MW96T	02/08/2007	ND	10.0000
Arsenic	ug/L	MW96T	02/22/2008	ND	10.0000
Arsenic	ug/L	MW96T	02/06/2009	ND	10.0000
Arsenic	ug/L	MW96T	02/09/2010	ND	5.0000
Arsenic	ug/L	MW96T	02/17/2011	ND	10.0000
Arsenic	ug/L	MW96T	03/09/2012	ND	10.0000
Arsenic	ug/L	MW96T	02/19/2013	ND	10.0000
Arsenic	ug/L	MW96T	02/07/2014	ND	10.0000
Arsenic	ug/L	MW96T	02/04/2015	ND	10.0000
Arsenic	ug/L	MW96T	02/10/2016	ND	15.0000
Arsenic	ug/L	MW96T	02/01/2017	ND	15.0000
Arsenic	ug/L	MW97T	02/10/1993	ND	10.0000
Arsenic	ug/L	MW97T	04/14/1993	ND	10.0000
Arsenic	ug/L	MW97T	08/10/1993	ND	10.0000
Arsenic	ug/L	MW97T	10/13/1993	ND	10.0000
Arsenic	ug/L	MW97T	02/16/1994	ND	10.0000
Arsenic	ug/L	MW97T	05/09/1994	ND	10.0000
Arsenic	ug/L	MW97T	07/20/1994	ND	10.0000
Arsenic	ug/L	MW97T	10/24/1994	ND	10.0000
Arsenic	ug/L	MW97T	01/17/1995	ND	10.0000
Arsenic	ug/L	MW97T	04/07/1995	ND	10.0000

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result
Arsenic	ug/L	MW97T	07/25/1995	ND	10.0000
Arsenic	ug/L	MW98TR	07/25/1995	ND	10.0000
Arsenic	ug/L	MW98TR	10/25/1995	ND	10.0000
Arsenic	ug/L	MW98TR	01/17/1996	ND	10.0000
Arsenic	ug/L	MW98TR	04/23/1996	ND	10.0000
Arsenic	ug/L	MW98TR	07/18/1996	ND	10.0000
Arsenic	ug/L	MW98TR	10/22/1996	ND	10.0000
Arsenic	ug/L	MW98TR	01/21/1997	ND	10.0000
Arsenic	ug/L	MW98TR	04/22/1997	ND	10.0000
Arsenic	ug/L	MW98TR	07/15/1997	ND	10.0000
Arsenic	ug/L	MW98TR	10/21/1997	ND	10.0000
Arsenic	ug/L	MW98TR	01/20/1998	ND	10.0000
Arsenic	ug/L	MW98TR	07/16/1998	ND	10.0000
Arsenic	ug/L	MW98TR	10/20/1998	ND	10.0000
Arsenic	ug/L	MW98TR	01/20/1999	ND	10.0000
Arsenic	ug/L	MW98TR	04/21/1999	ND	10.0000
Arsenic	ug/L	MW98TR	07/20/1999	ND	10.0000
Arsenic	ug/L	MW98TR	10/19/1999	ND	10.0000
Arsenic	ug/L	MW98TR	01/19/2000	ND	10.0000
Arsenic	ug/L	MW98TR	04/19/2000	ND	10.0000
Arsenic	ug/L	MW98TR	07/19/2000	ND	10.0000
Arsenic	ug/L	MW98TR	10/18/2000	ND	10.0000
Arsenic	ug/L	MW98TR	01/17/2001	ND	10.0000
Arsenic	ug/L	MW98TR	04/19/2001	ND	10.0000
Arsenic	ug/L	MW98TR	07/18/2001	ND	10.0000
Arsenic	ug/L	MW98TR	10/18/2001	ND	10.0000
Arsenic	ug/L	MW98TR	01/16/2002	ND	10.0000
Arsenic	ug/L	MW98TR	04/18/2002	ND	10.0000
Arsenic	ug/L	MW98TR	07/18/2002	ND	10.0000
Arsenic	ug/L	MW98TR	10/24/2002	ND	10.0000
Arsenic	ug/L	MW98TR	01/21/2003	ND	10.0000
Arsenic	ug/L	MW98TR	04/21/2003	ND	10.0000
Arsenic	ug/L	MW98TR	07/16/2003	ND	10.0000
Arsenic	ug/L	MW98TR	10/23/2003	ND	10.0000
Arsenic	ug/L	MW98TR	01/20/2004	ND	10.0000
Arsenic	ug/L	MW98TR	01/27/2005	ND	10.0000
Arsenic	ug/L	MW98TR	01/17/2006	ND	10.0000
Arsenic	ug/L	MW98TR	02/08/2007	ND	10.0000
Arsenic	ug/L	MW98TR	02/22/2008	ND	10.0000
Arsenic	ug/L	MW98TR	02/06/2009	ND	10.0000
Arsenic	ug/L	MW98TR	02/09/2010	ND	5.0000
Arsenic	ug/L	MW98TR	02/17/2011	ND	10.0000
Arsenic	ug/L	MW98TR	03/09/2012	ND	10.0000
Arsenic	ug/L	MW98TR	02/15/2013	ND	10.0000
Arsenic	ug/L	MW98TR	02/06/2014	ND	10.0000
Arsenic	ug/L	MW98TR	02/04/2015	ND	10.0000
Arsenic	ug/L	MW98TR	02/10/2016	ND	15.0000
Arsenic	ug/L	MW98TR	02/01/2017	ND	15.0000
Barium	ug/L	MW126T	11/08/1995	ND	100.0000
Barium	ug/L	MW126T	02/29/1996		179.0000
Barium	ug/L	MW126T	04/23/1996		207.0000
Barium	ug/L	MW126T	07/22/1996		218.0000
Barium	ug/L	MW126T	10/21/1996		224.0000
Barium	ug/L	MW126T	01/20/1997		230.0000
Barium	ug/L	MW126T	04/23/1997		222.0000
Barium	ug/L	MW126T	07/15/1997		192.0000
Barium	ug/L	MW126T	10/16/1997		220.0000

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	
Barium	ug/L	MW126T	01/19/1998		203.0000	
Barium	ug/L	MW126T	04/16/1998		231.0000	
Barium	ug/L	MW126T	07/16/1998		210.0000	
Barium	ug/L	MW126T	10/15/1998		192.0000	
Barium	ug/L	MW126T	01/18/1999		223.0000	
Barium	ug/L	MW126T	04/21/1999		220.0000	
Barium	ug/L	MW126T	07/19/1999		229.0000	
Barium	ug/L	MW126T	10/20/1999		257.0000	
Barium	ug/L	MW126T	01/17/2000		224.0000	
Barium	ug/L	MW126T	04/19/2000		215.0000	
Barium	ug/L	MW126T	07/17/2000		213.0000	
Barium	ug/L	MW126T	10/18/2000		224.0000	
Barium	ug/L	MW126T	01/18/2001		231.0000	
Barium	ug/L	MW126T	04/19/2001		216.0000	
Barium	ug/L	MW126T	07/16/2001		218.0000	
Barium	ug/L	MW126T	10/18/2001		229.0000	
Barium	ug/L	MW126T	01/17/2002		212.0000	
Barium	ug/L	MW126T	04/18/2002		226.0000	
Barium	ug/L	MW126T	07/17/2002		228.0000	
Barium	ug/L	MW126T	10/24/2002		227.0000	
Barium	ug/L	MW126T	01/20/2003		234.0000	
Barium	ug/L	MW126T	04/21/2003		205.0000	
Barium	ug/L	MW126T	07/16/2003		215.0000	
Barium	ug/L	MW126T	10/23/2003		217.0000	
Barium	ug/L	MW126T	01/19/2004		244.0000	
Barium	ug/L	MW126T	01/26/2005		252.0000	
Barium	ug/L	MW126T	01/16/2006		273.0000	
Barium	ug/L	MW126T	02/09/2007		247.0000	
Barium	ug/L	MW126T	02/22/2008		260.0000	
Barium	ug/L	MW126T	02/06/2009		296.0000	
Barium	ug/L	MW126T	02/10/2010		21.5000	*
Barium	ug/L	MW126T	02/17/2011		267.0000	
Barium	ug/L	MW126T	03/09/2012		280.0000	
Barium	ug/L	MW126T	02/15/2013		270.0000	
Barium	ug/L	MW126T	02/06/2014		260.0000	
Barium	ug/L	MW126T	02/05/2015		280.0000	
Barium	ug/L	MW126T	02/10/2016		260.0000	
Barium	ug/L	MW126T	02/02/2017		240.0000	
Barium	ug/L	MW96T	04/14/1993		108.0000	
Barium	ug/L	MW96T	08/11/1993		187.0000	
Barium	ug/L	MW96T	10/13/1993		167.0000	
Barium	ug/L	MW96T	01/04/1994		206.0000	
Barium	ug/L	MW96T	04/05/1994		188.0000	
Barium	ug/L	MW96T	07/19/1994		208.0000	
Barium	ug/L	MW96T	10/20/1994		206.0000	
Barium	ug/L	MW96T	01/17/1995		230.0000	
Barium	ug/L	MW96T	04/24/1995		193.0000	
Barium	ug/L	MW96T	07/25/1995		210.0000	
Barium	ug/L	MW96T	10/11/1995		230.0000	
Barium	ug/L	MW96T	01/17/1996		205.0000	
Barium	ug/L	MW96T	04/18/1996		232.0000	
Barium	ug/L	MW96T	07/18/1996		201.0000	
Barium	ug/L	MW96T	10/22/1996		218.0000	
Barium	ug/L	MW96T	01/21/1997		238.0000	
Barium	ug/L	MW96T	04/22/1997		215.0000	
Barium	ug/L	MW96T	07/15/1997		189.0000	
Barium	ug/L	MW96T	10/21/1997		240.0000	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	
Barium	ug/L	MW96T	01/15/1998		173.0000	
Barium	ug/L	MW96T	04/22/1998		224.0000	
Barium	ug/L	MW96T	07/16/1998		218.0000	
Barium	ug/L	MW96T	10/20/1998		172.0000	
Barium	ug/L	MW96T	01/20/1999		215.0000	
Barium	ug/L	MW96T	04/21/1999		190.0000	
Barium	ug/L	MW96T	07/20/1999		214.0000	
Barium	ug/L	MW96T	10/19/1999		211.0000	
Barium	ug/L	MW96T	01/19/2000		218.0000	
Barium	ug/L	MW96T	04/19/2000		217.0000	
Barium	ug/L	MW96T	07/19/2000		210.0000	
Barium	ug/L	MW96T	10/18/2000		225.0000	
Barium	ug/L	MW96T	01/17/2001		245.0000	
Barium	ug/L	MW96T	04/19/2001		185.0000	
Barium	ug/L	MW96T	07/18/2001		141.0000	
Barium	ug/L	MW96T	10/18/2001		118.0000	
Barium	ug/L	MW96T	01/16/2002		171.0000	
Barium	ug/L	MW96T	04/18/2002		177.0000	
Barium	ug/L	MW96T	07/18/2002		162.0000	
Barium	ug/L	MW96T	10/24/2002		133.0000	
Barium	ug/L	MW96T	01/21/2003		148.0000	
Barium	ug/L	MW96T	04/21/2003		116.0000	
Barium	ug/L	MW96T	07/16/2003	ND	100.0000	
Barium	ug/L	MW96T	10/23/2003	ND	100.0000	
Barium	ug/L	MW96T	01/20/2004	ND	100.0000	
Barium	ug/L	MW96T	01/27/2005	ND	100.0000	
Barium	ug/L	MW96T	01/17/2006		140.0000	
Barium	ug/L	MW96T	02/08/2007		169.0000	
Barium	ug/L	MW96T	02/22/2008		183.0000	
Barium	ug/L	MW96T	02/06/2009		151.0000	
Barium	ug/L	MW96T	02/09/2010		190.0000	
Barium	ug/L	MW96T	02/17/2011		179.0000	
Barium	ug/L	MW96T	03/09/2012		180.0000	
Barium	ug/L	MW96T	02/19/2013		220.0000	
Barium	ug/L	MW96T	02/07/2014	ND	100.0000	
Barium	ug/L	MW96T	02/04/2015		110.0000	
Barium	ug/L	MW96T	02/10/2016	ND	100.0000	
Barium	ug/L	MW96T	02/01/2017		110.0000	
Barium	ug/L	MW97T	02/10/1993		190.0000	
Barium	ug/L	MW97T	04/14/1993		166.0000	
Barium	ug/L	MW97T	08/10/1993		176.0000	
Barium	ug/L	MW97T	10/13/1993		167.0000	
Barium	ug/L	MW97T	02/16/1994		160.0000	
Barium	ug/L	MW97T	05/09/1994		142.0000	
Barium	ug/L	MW97T	07/20/1994		156.0000	
Barium	ug/L	MW97T	10/24/1994		160.0000	
Barium	ug/L	MW97T	01/17/1995		162.0000	
Barium	ug/L	MW97T	04/07/1995		165.0000	
Barium	ug/L	MW97T	07/25/1995		159.0000	
Barium	ug/L	MW98TR	07/25/1995		176.0000	
Barium	ug/L	MW98TR	10/25/1995		224.0000	
Barium	ug/L	MW98TR	01/17/1996		167.0000	
Barium	ug/L	MW98TR	04/23/1996		229.0000	
Barium	ug/L	MW98TR	07/18/1996		241.0000	
Barium	ug/L	MW98TR	10/22/1996		256.0000	
Barium	ug/L	MW98TR	01/21/1997		276.0000	
Barium	ug/L	MW98TR	04/22/1997		235.0000	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	
Barium	ug/L	MW98TR	07/15/1997		254.0000	
Barium	ug/L	MW98TR	10/21/1997		265.0000	
Barium	ug/L	MW98TR	01/20/1998		261.0000	
Barium	ug/L	MW98TR	07/16/1998		251.0000	
Barium	ug/L	MW98TR	10/20/1998		242.0000	
Barium	ug/L	MW98TR	01/20/1999		265.0000	
Barium	ug/L	MW98TR	04/21/1999		260.0000	
Barium	ug/L	MW98TR	07/20/1999		280.0000	
Barium	ug/L	MW98TR	10/19/1999		266.0000	
Barium	ug/L	MW98TR	01/19/2000		285.0000	
Barium	ug/L	MW98TR	04/19/2000		299.0000	
Barium	ug/L	MW98TR	07/19/2000		249.0000	
Barium	ug/L	MW98TR	10/18/2000		278.0000	
Barium	ug/L	MW98TR	01/17/2001		306.0000	
Barium	ug/L	MW98TR	04/19/2001		280.0000	
Barium	ug/L	MW98TR	07/18/2001		263.0000	
Barium	ug/L	MW98TR	10/18/2001		281.0000	
Barium	ug/L	MW98TR	01/16/2002		266.0000	
Barium	ug/L	MW98TR	04/18/2002		281.0000	
Barium	ug/L	MW98TR	07/18/2002		293.0000	
Barium	ug/L	MW98TR	10/24/2002		262.0000	
Barium	ug/L	MW98TR	01/21/2003		281.0000	
Barium	ug/L	MW98TR	04/21/2003		258.0000	
Barium	ug/L	MW98TR	07/16/2003		266.0000	
Barium	ug/L	MW98TR	10/23/2003		262.0000	
Barium	ug/L	MW98TR	01/20/2004		287.0000	
Barium	ug/L	MW98TR	01/27/2005		281.0000	
Barium	ug/L	MW98TR	01/17/2006		293.0000	
Barium	ug/L	MW98TR	02/08/2007		284.0000	
Barium	ug/L	MW98TR	02/22/2008		293.0000	
Barium	ug/L	MW98TR	02/06/2009		183.0000	
Barium	ug/L	MW98TR	02/09/2010		313.0000	
Barium	ug/L	MW98TR	02/17/2011		294.0000	
Barium	ug/L	MW98TR	03/09/2012		330.0000	
Barium	ug/L	MW98TR	02/15/2013		310.0000	
Barium	ug/L	MW98TR	02/06/2014		300.0000	
Barium	ug/L	MW98TR	02/04/2015		300.0000	
Barium	ug/L	MW98TR	02/10/2016		310.0000	
Barium	ug/L	MW98TR	02/01/2017		260.0000	
Cadmium	ug/L	MW126T	11/08/1995	ND	5.0000	
Cadmium	ug/L	MW126T	02/29/1996	ND	5.0000	
Cadmium	ug/L	MW126T	04/23/1996	ND	5.0000	
Cadmium	ug/L	MW126T	07/22/1996	ND	5.0000	
Cadmium	ug/L	MW126T	10/21/1996	ND	5.0000	
Cadmium	ug/L	MW126T	01/20/1997	ND	5.0000	
Cadmium	ug/L	MW126T	04/23/1997	ND	5.0000	
Cadmium	ug/L	MW126T	07/15/1997	ND	5.0000	
Cadmium	ug/L	MW126T	10/16/1997	ND	5.0000	
Cadmium	ug/L	MW126T	01/19/1998	ND	5.0000	
Cadmium	ug/L	MW126T	04/16/1998	ND	5.0000	
Cadmium	ug/L	MW126T	07/16/1998	ND	5.0000	
Cadmium	ug/L	MW126T	10/15/1998	ND	5.0000	
Cadmium	ug/L	MW126T	01/18/1999	ND	5.0000	
Cadmium	ug/L	MW126T	04/21/1999	ND	5.0000	
Cadmium	ug/L	MW126T	07/19/1999	ND	5.0000	
Cadmium	ug/L	MW126T	10/20/1999	ND	5.0000	
Cadmium	ug/L	MW126T	01/17/2000	ND	5.0000	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	
Cadmium	ug/L	MW126T	04/19/2000	ND	5.0000	
Cadmium	ug/L	MW126T	07/17/2000	ND	5.0000	
Cadmium	ug/L	MW126T	10/18/2000	ND	5.0000	
Cadmium	ug/L	MW126T	01/18/2001	ND	5.0000	
Cadmium	ug/L	MW126T	04/19/2001	ND	5.0000	
Cadmium	ug/L	MW126T	07/16/2001	ND	5.0000	
Cadmium	ug/L	MW126T	10/18/2001	ND	5.0000	
Cadmium	ug/L	MW126T	01/17/2002	ND	5.0000	
Cadmium	ug/L	MW126T	04/18/2002	ND	5.0000	
Cadmium	ug/L	MW126T	07/17/2002	ND	5.0000	
Cadmium	ug/L	MW126T	10/24/2002	ND	5.0000	
Cadmium	ug/L	MW126T	01/20/2003	ND	5.0000	
Cadmium	ug/L	MW126T	04/21/2003	ND	5.0000	
Cadmium	ug/L	MW126T	07/16/2003	ND	5.0000	
Cadmium	ug/L	MW126T	10/23/2003	ND	5.0000	
Cadmium	ug/L	MW126T	01/19/2004	ND	5.0000	
Cadmium	ug/L	MW126T	01/26/2005	ND	5.0000	
Cadmium	ug/L	MW126T	01/16/2006	ND	5.0000	
Cadmium	ug/L	MW126T	02/09/2007	ND	5.0000	
Cadmium	ug/L	MW126T	02/22/2008	ND	5.0000	
Cadmium	ug/L	MW126T	02/06/2009	ND	5.0000	
Cadmium	ug/L	MW126T	02/10/2010	ND	5.0000	
Cadmium	ug/L	MW126T	02/17/2011	ND	5.0000	
Cadmium	ug/L	MW126T	03/09/2012	ND	5.0000	
Cadmium	ug/L	MW126T	02/15/2013	ND	5.0000	
Cadmium	ug/L	MW126T	02/06/2014	ND	5.0000	
Cadmium	ug/L	MW126T	02/05/2015	ND	5.0000	
Cadmium	ug/L	MW126T	02/10/2016	ND	5.0000	
Cadmium	ug/L	MW126T	02/02/2017	ND	5.0000	
Cadmium	ug/L	MW96T	04/14/1993	ND	5.0000	
Cadmium	ug/L	MW96T	08/11/1993	ND	5.0000	
Cadmium	ug/L	MW96T	10/13/1993	ND	5.0000	
Cadmium	ug/L	MW96T	01/04/1994	ND	5.0000	
Cadmium	ug/L	MW96T	04/05/1994	ND	5.0000	
Cadmium	ug/L	MW96T	07/19/1994	ND	5.0000	
Cadmium	ug/L	MW96T	10/20/1994	ND	5.0000	
Cadmium	ug/L	MW96T	01/17/1995	ND	5.0000	
Cadmium	ug/L	MW96T	04/24/1995	ND	5.0000	
Cadmium	ug/L	MW96T	07/25/1995	ND	5.0000	
Cadmium	ug/L	MW96T	10/11/1995	ND	5.0000	
Cadmium	ug/L	MW96T	01/17/1996	ND	5.0000	
Cadmium	ug/L	MW96T	04/18/1996	ND	5.0000	
Cadmium	ug/L	MW96T	07/18/1996	ND	5.0000	
Cadmium	ug/L	MW96T	10/22/1996	ND	5.0000	
Cadmium	ug/L	MW96T	01/21/1997	ND	5.0000	
Cadmium	ug/L	MW96T	04/22/1997	ND	5.0000	
Cadmium	ug/L	MW96T	07/15/1997	ND	5.0000	
Cadmium	ug/L	MW96T	10/21/1997	ND	5.0000	
Cadmium	ug/L	MW96T	01/15/1998	ND	5.0000	
Cadmium	ug/L	MW96T	04/22/1998	ND	5.0000	
Cadmium	ug/L	MW96T	07/16/1998	ND	5.0000	
Cadmium	ug/L	MW96T	10/20/1998	ND	5.0000	
Cadmium	ug/L	MW96T	01/20/1999	ND	5.0000	
Cadmium	ug/L	MW96T	04/21/1999	ND	5.0000	
Cadmium	ug/L	MW96T	07/20/1999	ND	5.0000	
Cadmium	ug/L	MW96T	10/19/1999	ND	5.0000	
Cadmium	ug/L	MW96T	01/19/2000	ND	5.0000	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	
Cadmium	ug/L	MW96T	04/19/2000	ND	5.0000	
Cadmium	ug/L	MW96T	07/19/2000	ND	5.0000	
Cadmium	ug/L	MW96T	10/18/2000	ND	5.0000	
Cadmium	ug/L	MW96T	01/17/2001	ND	5.0000	
Cadmium	ug/L	MW96T	04/19/2001	ND	5.0000	
Cadmium	ug/L	MW96T	07/18/2001	ND	5.0000	
Cadmium	ug/L	MW96T	10/18/2001	ND	5.0000	
Cadmium	ug/L	MW96T	01/16/2002	ND	5.0000	
Cadmium	ug/L	MW96T	04/18/2002	ND	5.0000	
Cadmium	ug/L	MW96T	07/18/2002	ND	5.0000	
Cadmium	ug/L	MW96T	10/24/2002	ND	5.0000	
Cadmium	ug/L	MW96T	01/21/2003	ND	5.0000	
Cadmium	ug/L	MW96T	04/21/2003	ND	5.0000	
Cadmium	ug/L	MW96T	07/16/2003	ND	5.0000	
Cadmium	ug/L	MW96T	10/23/2003	ND	5.0000	
Cadmium	ug/L	MW96T	01/20/2004	ND	5.0000	
Cadmium	ug/L	MW96T	01/27/2005	ND	5.0000	
Cadmium	ug/L	MW96T	01/17/2006	ND	5.0000	
Cadmium	ug/L	MW96T	02/08/2007	ND	5.0000	
Cadmium	ug/L	MW96T	02/22/2008	ND	5.0000	
Cadmium	ug/L	MW96T	02/06/2009	ND	5.0000	
Cadmium	ug/L	MW96T	02/09/2010	ND	5.0000	
Cadmium	ug/L	MW96T	02/17/2011	ND	5.0000	
Cadmium	ug/L	MW96T	03/09/2012	ND	5.0000	
Cadmium	ug/L	MW96T	02/19/2013	ND	5.0000	
Cadmium	ug/L	MW96T	02/07/2014	ND	5.0000	
Cadmium	ug/L	MW96T	02/04/2015	ND	5.0000	
Cadmium	ug/L	MW96T	02/10/2016	ND	5.0000	
Cadmium	ug/L	MW96T	02/01/2017	ND	5.0000	
Cadmium	ug/L	MW97T	02/10/1993	ND	5.0000	
Cadmium	ug/L	MW97T	04/14/1993	ND	5.0000	
Cadmium	ug/L	MW97T	08/10/1993	ND	5.0000	
Cadmium	ug/L	MW97T	10/13/1993	ND	5.0000	
Cadmium	ug/L	MW97T	02/16/1994	ND	5.0000	
Cadmium	ug/L	MW97T	05/09/1994	ND	5.0000	
Cadmium	ug/L	MW97T	07/20/1994	ND	5.0000	
Cadmium	ug/L	MW97T	10/24/1994	ND	5.0000	
Cadmium	ug/L	MW97T	01/17/1995	ND	5.0000	
Cadmium	ug/L	MW97T	04/07/1995	ND	5.0000	
Cadmium	ug/L	MW97T	07/25/1995	ND	5.0000	
Cadmium	ug/L	MW98TR	07/25/1995	ND	5.0000	
Cadmium	ug/L	MW98TR	10/25/1995	ND	5.0000	
Cadmium	ug/L	MW98TR	01/17/1996	ND	5.0000	
Cadmium	ug/L	MW98TR	04/23/1996	ND	5.0000	
Cadmium	ug/L	MW98TR	07/18/1996	ND	5.0000	
Cadmium	ug/L	MW98TR	10/22/1996	ND	5.0000	
Cadmium	ug/L	MW98TR	01/21/1997	ND	5.0000	
Cadmium	ug/L	MW98TR	04/22/1997	ND	5.0000	
Cadmium	ug/L	MW98TR	07/15/1997	ND	5.0000	
Cadmium	ug/L	MW98TR	10/21/1997	ND	5.0000	
Cadmium	ug/L	MW98TR	01/20/1998	ND	5.0000	
Cadmium	ug/L	MW98TR	07/16/1998	ND	5.0000	
Cadmium	ug/L	MW98TR	10/20/1998	ND	5.0000	
Cadmium	ug/L	MW98TR	01/20/1999	ND	5.0000	
Cadmium	ug/L	MW98TR	04/21/1999	ND	5.0000	
Cadmium	ug/L	MW98TR	07/20/1999	ND	5.0000	
Cadmium	ug/L	MW98TR	10/19/1999	ND	5.0000	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	
Cadmium	ug/L	MW98TR	01/19/2000	ND	5.0000	
Cadmium	ug/L	MW98TR	04/19/2000	ND	5.0000	
Cadmium	ug/L	MW98TR	07/19/2000	ND	5.0000	
Cadmium	ug/L	MW98TR	10/18/2000	ND	5.0000	
Cadmium	ug/L	MW98TR	01/17/2001	ND	5.0000	
Cadmium	ug/L	MW98TR	04/19/2001	ND	5.0000	
Cadmium	ug/L	MW98TR	07/18/2001	ND	5.0000	
Cadmium	ug/L	MW98TR	10/18/2001	ND	5.0000	
Cadmium	ug/L	MW98TR	01/16/2002	ND	5.0000	
Cadmium	ug/L	MW98TR	04/18/2002	ND	5.0000	
Cadmium	ug/L	MW98TR	07/18/2002	ND	5.0000	
Cadmium	ug/L	MW98TR	10/24/2002	ND	5.0000	
Cadmium	ug/L	MW98TR	01/21/2003	ND	5.0000	
Cadmium	ug/L	MW98TR	04/21/2003	ND	5.0000	
Cadmium	ug/L	MW98TR	07/16/2003	ND	5.0000	
Cadmium	ug/L	MW98TR	10/23/2003	ND	5.0000	
Cadmium	ug/L	MW98TR	01/20/2004	ND	5.0000	
Cadmium	ug/L	MW98TR	01/27/2005	ND	5.0000	
Cadmium	ug/L	MW98TR	01/17/2006	ND	5.0000	
Cadmium	ug/L	MW98TR	02/08/2007	ND	5.0000	
Cadmium	ug/L	MW98TR	02/22/2008	ND	5.0000	
Cadmium	ug/L	MW98TR	02/06/2009	ND	5.0000	
Cadmium	ug/L	MW98TR	02/09/2010	ND	5.0000	
Cadmium	ug/L	MW98TR	02/17/2011	ND	5.0000	
Cadmium	ug/L	MW98TR	03/09/2012	ND	5.0000	
Cadmium	ug/L	MW98TR	02/15/2013	ND	5.0000	
Cadmium	ug/L	MW98TR	02/06/2014	ND	5.0000	
Cadmium	ug/L	MW98TR	02/04/2015	ND	5.0000	
Cadmium	ug/L	MW98TR	02/10/2016	ND	5.0000	
Cadmium	ug/L	MW98TR	02/01/2017	ND	5.0000	
Chromium	ug/L	MW126T	11/08/1995	ND	20.0000	
Chromium	ug/L	MW126T	02/29/1996	ND	20.0000	
Chromium	ug/L	MW126T	04/23/1996	ND	20.0000	
Chromium	ug/L	MW126T	07/22/1996	ND	20.0000	
Chromium	ug/L	MW126T	10/21/1996	ND	20.0000	
Chromium	ug/L	MW126T	01/20/1997	ND	20.0000	
Chromium	ug/L	MW126T	04/23/1997	ND	20.0000	
Chromium	ug/L	MW126T	07/15/1997	ND	20.0000	
Chromium	ug/L	MW126T	10/16/1997	ND	20.0000	
Chromium	ug/L	MW126T	01/19/1998	ND	20.0000	
Chromium	ug/L	MW126T	04/16/1998	ND	20.0000	
Chromium	ug/L	MW126T	07/16/1998	ND	20.0000	
Chromium	ug/L	MW126T	10/15/1998	ND	20.0000	
Chromium	ug/L	MW126T	01/18/1999	ND	20.0000	
Chromium	ug/L	MW126T	04/21/1999	ND	20.0000	
Chromium	ug/L	MW126T	07/19/1999	ND	20.0000	
Chromium	ug/L	MW126T	10/20/1999	ND	20.0000	
Chromium	ug/L	MW126T	01/17/2000	ND	20.0000	
Chromium	ug/L	MW126T	04/19/2000	ND	20.0000	
Chromium	ug/L	MW126T	07/17/2000	ND	20.0000	
Chromium	ug/L	MW126T	10/18/2000	ND	20.0000	
Chromium	ug/L	MW126T	01/18/2001	ND	20.0000	
Chromium	ug/L	MW126T	04/19/2001	ND	20.0000	
Chromium	ug/L	MW126T	07/16/2001	ND	20.0000	
Chromium	ug/L	MW126T	10/18/2001	ND	20.0000	
Chromium	ug/L	MW126T	01/17/2002	ND	20.0000	
Chromium	ug/L	MW126T	04/18/2002	ND	20.0000	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	
Chromium	ug/L	MW126T	07/17/2002	ND	20.0000	
Chromium	ug/L	MW126T	10/24/2002	ND	20.0000	
Chromium	ug/L	MW126T	01/20/2003	ND	20.0000	
Chromium	ug/L	MW126T	04/21/2003	ND	20.0000	
Chromium	ug/L	MW126T	07/16/2003	ND	20.0000	
Chromium	ug/L	MW126T	10/23/2003	ND	20.0000	
Chromium	ug/L	MW126T	01/19/2004	ND	20.0000	
Chromium	ug/L	MW126T	01/26/2005	ND	20.0000	
Chromium	ug/L	MW126T	01/16/2006	ND	20.0000	
Chromium	ug/L	MW126T	02/09/2007	ND	20.0000	
Chromium	ug/L	MW126T	02/22/2008	ND	20.0000	
Chromium	ug/L	MW126T	02/06/2009	ND	20.0000	
Chromium	ug/L	MW126T	02/10/2010	ND	5.0000	
Chromium	ug/L	MW126T	02/17/2011	ND	20.0000	
Chromium	ug/L	MW126T	03/09/2012	ND	20.0000	
Chromium	ug/L	MW126T	02/15/2013	ND	20.0000	
Chromium	ug/L	MW126T	02/06/2014	ND	20.0000	
Chromium	ug/L	MW126T	02/05/2015	ND	20.0000	
Chromium	ug/L	MW126T	02/10/2016	ND	20.0000	
Chromium	ug/L	MW126T	02/02/2017	ND	20.0000	
Chromium	ug/L	MW96T	04/14/1993		33.0000	
Chromium	ug/L	MW96T	08/11/1993	ND	20.0000	
Chromium	ug/L	MW96T	10/13/1993	ND	20.0000	
Chromium	ug/L	MW96T	01/04/1994	ND	20.0000	
Chromium	ug/L	MW96T	04/05/1994	ND	20.0000	
Chromium	ug/L	MW96T	07/19/1994	ND	20.0000	
Chromium	ug/L	MW96T	10/20/1994	ND	20.0000	
Chromium	ug/L	MW96T	01/17/1995	ND	20.0000	
Chromium	ug/L	MW96T	04/24/1995	ND	20.0000	
Chromium	ug/L	MW96T	07/25/1995	ND	25.0000	
Chromium	ug/L	MW96T	10/11/1995	ND	20.0000	
Chromium	ug/L	MW96T	01/17/1996	ND	20.0000	
Chromium	ug/L	MW96T	04/18/1996	ND	20.0000	
Chromium	ug/L	MW96T	07/18/1996	ND	20.0000	
Chromium	ug/L	MW96T	10/22/1996	ND	20.0000	
Chromium	ug/L	MW96T	01/21/1997	ND	20.0000	
Chromium	ug/L	MW96T	04/22/1997	ND	20.0000	
Chromium	ug/L	MW96T	07/15/1997	ND	20.0000	
Chromium	ug/L	MW96T	10/21/1997	ND	20.0000	
Chromium	ug/L	MW96T	01/15/1998	ND	20.0000	
Chromium	ug/L	MW96T	04/22/1998	ND	20.0000	
Chromium	ug/L	MW96T	07/16/1998	ND	20.0000	
Chromium	ug/L	MW96T	10/20/1998	ND	20.0000	
Chromium	ug/L	MW96T	01/20/1999	ND	20.0000	
Chromium	ug/L	MW96T	04/21/1999	ND	20.0000	
Chromium	ug/L	MW96T	07/20/1999	ND	20.0000	
Chromium	ug/L	MW96T	10/19/1999	ND	20.0000	
Chromium	ug/L	MW96T	01/19/2000	ND	20.0000	
Chromium	ug/L	MW96T	04/19/2000	ND	20.0000	
Chromium	ug/L	MW96T	07/19/2000	ND	20.0000	
Chromium	ug/L	MW96T	10/18/2000	ND	20.0000	
Chromium	ug/L	MW96T	01/17/2001	ND	20.0000	
Chromium	ug/L	MW96T	04/19/2001	ND	20.0000	
Chromium	ug/L	MW96T	07/18/2001	ND	20.0000	
Chromium	ug/L	MW96T	10/18/2001	ND	20.0000	
Chromium	ug/L	MW96T	01/16/2002	ND	20.0000	
Chromium	ug/L	MW96T	04/18/2002	ND	20.0000	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	
Chromium	ug/L	MW96T	07/18/2002	ND	20.0000	
Chromium	ug/L	MW96T	10/24/2002	ND	20.0000	
Chromium	ug/L	MW96T	01/21/2003	ND	20.0000	
Chromium	ug/L	MW96T	04/21/2003	ND	20.0000	
Chromium	ug/L	MW96T	07/16/2003	ND	20.0000	
Chromium	ug/L	MW96T	10/23/2003	ND	20.0000	
Chromium	ug/L	MW96T	01/20/2004	ND	20.0000	
Chromium	ug/L	MW96T	01/27/2005	ND	20.0000	
Chromium	ug/L	MW96T	01/17/2006	ND	20.0000	
Chromium	ug/L	MW96T	02/08/2007	ND	20.0000	
Chromium	ug/L	MW96T	02/22/2008	ND	20.0000	
Chromium	ug/L	MW96T	02/06/2009	ND	20.0000	
Chromium	ug/L	MW96T	02/09/2010	ND	5.0000	
Chromium	ug/L	MW96T	02/17/2011	ND	20.0000	
Chromium	ug/L	MW96T	03/09/2012	ND	20.0000	
Chromium	ug/L	MW96T	02/19/2013	ND	20.0000	
Chromium	ug/L	MW96T	02/07/2014	ND	20.0000	
Chromium	ug/L	MW96T	02/04/2015	ND	20.0000	
Chromium	ug/L	MW96T	02/10/2016	ND	20.0000	
Chromium	ug/L	MW96T	02/01/2017	ND	20.0000	
Chromium	ug/L	MW97T	02/10/1993	ND	20.0000	
Chromium	ug/L	MW97T	04/14/1993	ND	20.0000	
Chromium	ug/L	MW97T	08/10/1993	ND	20.0000	
Chromium	ug/L	MW97T	10/13/1993	ND	20.0000	
Chromium	ug/L	MW97T	02/16/1994	ND	20.0000	
Chromium	ug/L	MW97T	05/09/1994	ND	20.0000	
Chromium	ug/L	MW97T	07/20/1994	ND	20.0000	
Chromium	ug/L	MW97T	10/24/1994	ND	20.0000	
Chromium	ug/L	MW97T	01/17/1995	ND	20.0000	
Chromium	ug/L	MW97T	04/07/1995	ND	20.0000	
Chromium	ug/L	MW97T	07/25/1995	ND	25.0000	
Chromium	ug/L	MW98TR	07/25/1995	ND	25.0000	
Chromium	ug/L	MW98TR	10/25/1995	ND	20.0000	
Chromium	ug/L	MW98TR	01/17/1996	ND	20.0000	
Chromium	ug/L	MW98TR	04/23/1996	ND	20.0000	
Chromium	ug/L	MW98TR	07/18/1996	ND	20.0000	
Chromium	ug/L	MW98TR	10/22/1996	ND	20.0000	
Chromium	ug/L	MW98TR	01/21/1997	ND	20.0000	
Chromium	ug/L	MW98TR	04/22/1997	ND	20.0000	
Chromium	ug/L	MW98TR	07/15/1997	ND	20.0000	
Chromium	ug/L	MW98TR	10/21/1997	ND	20.0000	
Chromium	ug/L	MW98TR	01/20/1998	ND	20.0000	
Chromium	ug/L	MW98TR	07/16/1998	ND	20.0000	
Chromium	ug/L	MW98TR	10/20/1998	ND	20.0000	
Chromium	ug/L	MW98TR	01/20/1999	ND	20.0000	
Chromium	ug/L	MW98TR	04/21/1999	ND	20.0000	
Chromium	ug/L	MW98TR	07/20/1999	ND	20.0000	
Chromium	ug/L	MW98TR	10/19/1999	ND	20.0000	
Chromium	ug/L	MW98TR	01/19/2000	ND	20.0000	
Chromium	ug/L	MW98TR	04/19/2000	ND	20.0000	
Chromium	ug/L	MW98TR	07/19/2000	ND	20.0000	
Chromium	ug/L	MW98TR	10/18/2000	ND	20.0000	
Chromium	ug/L	MW98TR	01/17/2001	ND	20.0000	
Chromium	ug/L	MW98TR	04/19/2001	ND	20.0000	
Chromium	ug/L	MW98TR	07/18/2001	ND	20.0000	
Chromium	ug/L	MW98TR	10/18/2001	ND	20.0000	
Chromium	ug/L	MW98TR	01/16/2002	ND	20.0000	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	
Chromium	ug/L	MW98TR	04/18/2002	ND	20.0000	
Chromium	ug/L	MW98TR	07/18/2002	ND	20.0000	
Chromium	ug/L	MW98TR	10/24/2002	ND	20.0000	
Chromium	ug/L	MW98TR	01/21/2003	ND	20.0000	
Chromium	ug/L	MW98TR	04/21/2003	ND	20.0000	
Chromium	ug/L	MW98TR	07/16/2003	ND	20.0000	
Chromium	ug/L	MW98TR	10/23/2003	ND	20.0000	
Chromium	ug/L	MW98TR	01/20/2004	ND	20.0000	
Chromium	ug/L	MW98TR	01/27/2005	ND	20.0000	
Chromium	ug/L	MW98TR	01/17/2006	ND	20.0000	
Chromium	ug/L	MW98TR	02/08/2007	ND	20.0000	
Chromium	ug/L	MW98TR	02/22/2008	ND	20.0000	
Chromium	ug/L	MW98TR	02/06/2009	ND	20.0000	
Chromium	ug/L	MW98TR	02/09/2010	ND	5.0000	
Chromium	ug/L	MW98TR	02/17/2011	ND	20.0000	
Chromium	ug/L	MW98TR	03/09/2012	ND	20.0000	
Chromium	ug/L	MW98TR	02/15/2013	ND	20.0000	
Chromium	ug/L	MW98TR	02/06/2014	ND	20.0000	
Chromium	ug/L	MW98TR	02/04/2015	ND	20.0000	
Chromium	ug/L	MW98TR	02/10/2016	ND	20.0000	
Chromium	ug/L	MW98TR	02/01/2017	ND	20.0000	
Conductivity	umho	MW126T	11/08/1995		165.0000	
Conductivity	umho	MW126T	02/29/1996		178.0000	
Conductivity	umho	MW126T	04/23/1996		247.0000	
Conductivity	umho	MW126T	07/22/1996		198.0000	
Conductivity	umho	MW126T	10/21/1996		199.0000	
Conductivity	umho	MW126T	01/20/1997		232.0000	
Conductivity	umho	MW126T	04/23/1997		214.0000	
Conductivity	umho	MW126T	07/15/1997		216.0000	
Conductivity	umho	MW126T	10/16/1997		200.0000	
Conductivity	umho	MW126T	01/19/1998		208.0000	
Conductivity	umho	MW126T	04/16/1998		233.0000	
Conductivity	umho	MW126T	07/16/1998		241.0000	
Conductivity	umho	MW126T	10/15/1998		201.0000	
Conductivity	umho	MW126T	01/18/1999		250.0000	
Conductivity	umho	MW126T	04/21/1999		214.0000	
Conductivity	umho	MW126T	07/19/1999		270.0000	
Conductivity	umho	MW126T	10/20/1999		250.0000	
Conductivity	umho	MW126T	01/17/2000		173.0000	
Conductivity	umho	MW126T	04/19/2000		209.0000	
Conductivity	umho	MW126T	07/17/2000		210.0000	
Conductivity	umho	MW126T	10/18/2000		238.0000	
Conductivity	umho	MW126T	01/18/2001		214.0000	
Conductivity	umho	MW126T	04/19/2001		188.0000	
Conductivity	umho	MW126T	07/16/2001		202.0000	
Conductivity	umho	MW126T	10/18/2001		205.0000	
Conductivity	umho	MW126T	01/17/2002		199.0000	
Conductivity	umho	MW126T	04/18/2002		204.0000	
Conductivity	umho	MW126T	07/17/2002		199.0000	
Conductivity	umho	MW126T	10/24/2002		208.0000	
Conductivity	umho	MW126T	01/20/2003		210.0000	
Conductivity	umho	MW126T	04/21/2003		201.0000	
Conductivity	umho	MW126T	07/16/2003		204.0000	
Conductivity	umho	MW126T	10/23/2003		199.0000	
Conductivity	umho	MW126T	01/19/2004		202.0000	
Conductivity	umho	MW126T	01/26/2005		221.0000	
Conductivity	umho	MW126T	01/16/2006		214.0000	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	
Conductivity	umho	MW126T	02/09/2007		190.0000	
Conductivity	umho	MW126T	02/22/2008		177.0000	
Conductivity	umho	MW126T	02/06/2009		154.0000	
Conductivity	umho	MW126T	02/10/2010		150.0000	
Conductivity	umho	MW126T	02/17/2011		196.0000	
Conductivity	umho	MW126T	03/09/2012		171.0000	
Conductivity	umho	MW126T	02/15/2013		223.0000	
Conductivity	umho	MW126T	02/06/2014		186.0000	
Conductivity	umho	MW126T	02/05/2015		195.0000	
Conductivity	umho	MW126T	02/10/2016		215.0000	
Conductivity	umho	MW126T	02/02/2017		140.0000	
Conductivity	umho	MW96T	10/30/1993		288.0000	
Conductivity	umho	MW96T	01/28/1994		285.0000	
Conductivity	umho	MW96T	04/29/1994		268.0000	
Conductivity	umho	MW96T	07/19/1994		281.0000	
Conductivity	umho	MW96T	10/20/1994		285.0000	
Conductivity	umho	MW96T	01/17/1995		237.0000	
Conductivity	umho	MW96T	04/24/1995		215.0000	
Conductivity	umho	MW96T	07/25/1995		254.0000	
Conductivity	umho	MW96T	10/11/1995		210.0000	
Conductivity	umho	MW96T	01/17/1996		219.0000	
Conductivity	umho	MW96T	04/18/1996		206.0000	
Conductivity	umho	MW96T	07/18/1996		260.0000	
Conductivity	umho	MW96T	10/22/1996		272.0000	
Conductivity	umho	MW96T	01/21/1997		177.0000	
Conductivity	umho	MW96T	04/22/1997		242.0000	
Conductivity	umho	MW96T	07/15/1997		267.0000	
Conductivity	umho	MW96T	10/21/1997		243.0000	
Conductivity	umho	MW96T	01/15/1998		246.0000	
Conductivity	umho	MW96T	04/22/1998		279.0000	
Conductivity	umho	MW96T	07/16/1998		241.0000	
Conductivity	umho	MW96T	10/20/1998		245.0000	
Conductivity	umho	MW96T	01/20/1999		204.0000	
Conductivity	umho	MW96T	04/21/1999		288.0000	
Conductivity	umho	MW96T	07/20/1999		360.0000	
Conductivity	umho	MW96T	10/19/1999		257.0000	
Conductivity	umho	MW96T	01/19/2000		223.0000	
Conductivity	umho	MW96T	04/19/2000		261.0000	
Conductivity	umho	MW96T	07/19/2000		277.0000	
Conductivity	umho	MW96T	10/18/2000		310.0000	
Conductivity	umho	MW96T	01/17/2001		319.0000	
Conductivity	umho	MW96T	04/19/2001		247.0000	
Conductivity	umho	MW96T	07/18/2001		254.0000	
Conductivity	umho	MW96T	10/18/2001		251.0000	
Conductivity	umho	MW96T	01/16/2002		227.0000	
Conductivity	umho	MW96T	04/18/2002		265.0000	
Conductivity	umho	MW96T	07/18/2002		275.0000	
Conductivity	umho	MW96T	10/24/2002		253.0000	
Conductivity	umho	MW96T	01/21/2003		221.0000	
Conductivity	umho	MW96T	04/21/2003		206.0000	
Conductivity	umho	MW96T	07/16/2003		193.0000	
Conductivity	umho	MW96T	10/23/2003		126.0000	
Conductivity	umho	MW96T	01/20/2004		172.0000	
Conductivity	umho	MW96T	01/27/2005		144.0000	
Conductivity	umho	MW96T	01/17/2006		192.0000	
Conductivity	umho	MW96T	02/08/2007		174.0000	
Conductivity	umho	MW96T	02/22/2008		162.0000	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	
Conductivity	umho	MW96T	02/06/2009		162.0000	
Conductivity	umho	MW96T	02/09/2010		170.0000	
Conductivity	umho	MW96T	02/17/2011		217.0000	
Conductivity	umho	MW96T	03/09/2012		189.0000	
Conductivity	umho	MW96T	02/19/2013		229.0000	
Conductivity	umho	MW96T	02/07/2014		129.0000	
Conductivity	umho	MW96T	02/04/2015		257.0000	
Conductivity	umho	MW96T	02/10/2016		126.0000	
Conductivity	umho	MW96T	02/01/2017		120.0000	
Conductivity	umho	MW97T	10/30/1993		194.0000	
Conductivity	umho	MW97T	02/25/1994		204.0000	
Conductivity	umho	MW97T	05/27/1994		189.0000	
Conductivity	umho	MW97T	07/20/1994		180.0000	
Conductivity	umho	MW97T	10/24/1994		178.0000	
Conductivity	umho	MW97T	01/17/1995		160.0000	
Conductivity	umho	MW97T	04/07/1995		185.0000	
Conductivity	umho	MW97T	07/25/1995		161.0000	
Conductivity	umho	MW98TR	07/25/1995		278.0000	
Conductivity	umho	MW98TR	10/25/1995		193.0000	
Conductivity	umho	MW98TR	01/17/1996		141.0000	
Conductivity	umho	MW98TR	04/23/1996		424.0000	
Conductivity	umho	MW98TR	07/18/1996		312.0000	
Conductivity	umho	MW98TR	10/22/1996		344.0000	
Conductivity	umho	MW98TR	01/21/1997		348.0000	
Conductivity	umho	MW98TR	04/22/1997		326.0000	
Conductivity	umho	MW98TR	07/15/1997		335.0000	
Conductivity	umho	MW98TR	10/21/1997		315.0000	
Conductivity	umho	MW98TR	01/20/1998		328.0000	
Conductivity	umho	MW98TR	07/16/1998		330.0000	
Conductivity	umho	MW98TR	10/20/1998		316.0000	
Conductivity	umho	MW98TR	01/20/1999		241.0000	
Conductivity	umho	MW98TR	04/21/1999		331.0000	
Conductivity	umho	MW98TR	07/20/1999		426.0000	
Conductivity	umho	MW98TR	10/19/1999		314.0000	
Conductivity	umho	MW98TR	01/19/2000		272.0000	
Conductivity	umho	MW98TR	04/19/2000		333.0000	
Conductivity	umho	MW98TR	07/19/2000		336.0000	
Conductivity	umho	MW98TR	10/18/2000		369.0000	
Conductivity	umho	MW98TR	01/17/2001		381.0000	
Conductivity	umho	MW98TR	04/19/2001		320.0000	
Conductivity	umho	MW98TR	07/18/2001		329.0000	
Conductivity	umho	MW98TR	10/18/2001		307.0000	
Conductivity	umho	MW98TR	01/16/2002		328.0000	
Conductivity	umho	MW98TR	04/18/2002		335.0000	
Conductivity	umho	MW98TR	07/18/2002		347.0000	
Conductivity	umho	MW98TR	10/24/2002		305.0000	
Conductivity	umho	MW98TR	01/21/2003		311.0000	
Conductivity	umho	MW98TR	04/21/2003		310.0000	
Conductivity	umho	MW98TR	07/16/2003		316.0000	
Conductivity	umho	MW98TR	10/23/2003		300.0000	
Conductivity	umho	MW98TR	01/20/2004		308.0000	
Conductivity	umho	MW98TR	01/27/2005		341.0000	
Conductivity	umho	MW98TR	01/17/2006		274.0000	
Conductivity	umho	MW98TR	02/08/2007		230.0000	
Conductivity	umho	MW98TR	02/22/2008		236.0000	
Conductivity	umho	MW98TR	02/06/2009		263.0000	
Conductivity	umho	MW98TR	02/09/2010		277.0000	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	
Conductivity	umho	MW98TR	02/17/2011		347.0000	
Conductivity	umho	MW98TR	03/09/2012		308.0000	
Conductivity	umho	MW98TR	02/15/2013		359.0000	
Conductivity	umho	MW98TR	02/06/2014		315.0000	
Conductivity	umho	MW98TR	02/04/2015		256.0000	
Conductivity	umho	MW98TR	02/10/2016		330.0000	
Conductivity	umho	MW98TR	02/01/2017		170.0000	
Lead	ug/L	MW126T	11/08/1995	ND	25.0000	
Lead	ug/L	MW126T	02/29/1996	ND	25.0000	
Lead	ug/L	MW126T	04/23/1996	ND	25.0000	
Lead	ug/L	MW126T	07/22/1996	ND	25.0000	
Lead	ug/L	MW126T	10/21/1996	ND	25.0000	
Lead	ug/L	MW126T	01/20/1997	ND	25.0000	
Lead	ug/L	MW126T	04/23/1997	ND	25.0000	
Lead	ug/L	MW126T	07/15/1997	ND	25.0000	
Lead	ug/L	MW126T	10/16/1997	ND	25.0000	
Lead	ug/L	MW126T	01/19/1998	ND	25.0000	
Lead	ug/L	MW126T	04/16/1998	ND	25.0000	
Lead	ug/L	MW126T	07/16/1998	ND	25.0000	
Lead	ug/L	MW126T	10/15/1998	ND	25.0000	
Lead	ug/L	MW126T	01/18/1999	ND	25.0000	
Lead	ug/L	MW126T	04/21/1999	ND	25.0000	
Lead	ug/L	MW126T	07/19/1999	ND	5.0000	
Lead	ug/L	MW126T	10/20/1999	ND	5.0000	
Lead	ug/L	MW126T	01/17/2000	ND	25.0000	
Lead	ug/L	MW126T	04/19/2000	ND	25.0000	
Lead	ug/L	MW126T	07/17/2000	ND	25.0000	
Lead	ug/L	MW126T	10/18/2000	ND	25.0000	
Lead	ug/L	MW126T	01/18/2001	ND	25.0000	
Lead	ug/L	MW126T	04/19/2001	ND	25.0000	
Lead	ug/L	MW126T	07/16/2001	ND	25.0000	
Lead	ug/L	MW126T	10/18/2001	ND	25.0000	
Lead	ug/L	MW126T	01/17/2002	ND	25.0000	
Lead	ug/L	MW126T	04/18/2002	ND	25.0000	
Lead	ug/L	MW126T	07/17/2002	ND	25.0000	
Lead	ug/L	MW126T	10/24/2002	ND	25.0000	
Lead	ug/L	MW126T	01/20/2003	ND	25.0000	
Lead	ug/L	MW126T	04/21/2003	ND	25.0000	
Lead	ug/L	MW126T	07/16/2003	ND	25.0000	
Lead	ug/L	MW126T	10/23/2003	ND	25.0000	
Lead	ug/L	MW126T	01/19/2004	ND	15.0000	
Lead	ug/L	MW126T	01/26/2005	ND	15.0000	
Lead	ug/L	MW126T	01/16/2006	ND	15.0000	
Lead	ug/L	MW126T	02/09/2007	ND	15.0000	
Lead	ug/L	MW126T	02/22/2008	ND	15.0000	
Lead	ug/L	MW126T	02/06/2009	ND	15.0000	
Lead	ug/L	MW126T	'02/10/2010	ND	10.0000	
Lead	ug/L	MW126T	02/17/2011	ND	15.0000	
Lead	ug/L	MW126T	03/09/2012	ND	15.0000	
Lead	ug/L	MW126T	02/15/2013	ND	15.0000	
Lead	ug/L	MW126T	02/06/2014	ND	15.0000	
Lead	ug/L	MW126T	02/05/2015	ND	15.0000	
Lead	ug/L	MW126T	02/10/2016	ND	15.0000	
Lead	ug/L	MW126T	02/02/2017	ND	15.0000	
Lead	ug/L	MW96T	04/14/1993	ND	25.0000	
Lead	ug/L	MW96T	08/11/1993	ND	25.0000	
Lead	ug/L	MW96T	10/13/1993	ND	25.0000	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	
Lead	ug/L	MW96T	01/04/1994	ND	25.0000	
Lead	ug/L	MW96T	04/05/1994	ND	25.0000	
Lead	ug/L	MW96T	07/19/1994	ND	25.0000	
Lead	ug/L	MW96T	10/20/1994	ND	25.0000	
Lead	ug/L	MW96T	01/17/1995	ND	25.0000	
Lead	ug/L	MW96T	04/24/1995	ND	25.0000	
Lead	ug/L	MW96T	07/25/1995	ND	25.0000	
Lead	ug/L	MW96T	10/11/1995	ND	25.0000	
Lead	ug/L	MW96T	01/17/1996	ND	25.0000	
Lead	ug/L	MW96T	04/18/1996	ND	25.0000	
Lead	ug/L	MW96T	07/18/1996	ND	25.0000	
Lead	ug/L	MW96T	10/22/1996	ND	25.0000	
Lead	ug/L	MW96T	01/21/1997	ND	25.0000	
Lead	ug/L	MW96T	04/22/1997	ND	25.0000	
Lead	ug/L	MW96T	07/15/1997	ND	25.0000	
Lead	ug/L	MW96T	10/21/1997	ND	25.0000	
Lead	ug/L	MW96T	01/15/1998	ND	25.0000	
Lead	ug/L	MW96T	04/22/1998	ND	25.0000	
Lead	ug/L	MW96T	07/16/1998	ND	25.0000	
Lead	ug/L	MW96T	10/20/1998	ND	25.0000	
Lead	ug/L	MW96T	01/20/1999	ND	25.0000	
Lead	ug/L	MW96T	04/21/1999	ND	25.0000	
Lead	ug/L	MW96T	07/20/1999	ND	5.0000	
Lead	ug/L	MW96T	10/19/1999	ND	5.0000	
Lead	ug/L	MW96T	01/19/2000	ND	25.0000	
Lead	ug/L	MW96T	04/19/2000	ND	25.0000	
Lead	ug/L	MW96T	07/19/2000	ND	25.0000	
Lead	ug/L	MW96T	10/18/2000	ND	25.0000	
Lead	ug/L	MW96T	01/17/2001	ND	25.0000	
Lead	ug/L	MW96T	04/19/2001	ND	25.0000	
Lead	ug/L	MW96T	07/18/2001	ND	25.0000	
Lead	ug/L	MW96T	10/18/2001	ND	25.0000	
Lead	ug/L	MW96T	01/16/2002	ND	25.0000	
Lead	ug/L	MW96T	04/18/2002	ND	25.0000	
Lead	ug/L	MW96T	07/18/2002	ND	25.0000	
Lead	ug/L	MW96T	10/24/2002	ND	25.0000	
Lead	ug/L	MW96T	01/21/2003	ND	25.0000	
Lead	ug/L	MW96T	04/21/2003	ND	25.0000	
Lead	ug/L	MW96T	07/16/2003	ND	25.0000	
Lead	ug/L	MW96T	10/23/2003	ND	25.0000	
Lead	ug/L	MW96T	01/20/2004	ND	15.0000	
Lead	ug/L	MW96T	01/27/2005	ND	15.0000	
Lead	ug/L	MW96T	01/17/2006	ND	15.0000	
Lead	ug/L	MW96T	02/08/2007	ND	15.0000	
Lead	ug/L	MW96T	02/22/2008	ND	15.0000	
Lead	ug/L	MW96T	02/06/2009	ND	15.0000	
Lead	ug/L	MW96T	02/09/2010	ND	10.0000	
Lead	ug/L	MW96T	02/17/2011	ND	15.0000	
Lead	ug/L	MW96T	03/09/2012	ND	15.0000	
Lead	ug/L	MW96T	02/19/2013	ND	15.0000	
Lead	ug/L	MW96T	02/07/2014	ND	15.0000	
Lead	ug/L	MW96T	02/04/2015	ND	15.0000	
Lead	ug/L	MW96T	02/10/2016	ND	15.0000	
Lead	ug/L	MW96T	02/01/2017	ND	15.0000	
Lead	ug/L	MW97T	02/10/1993	ND	25.0000	
Lead	ug/L	MW97T	04/14/1993	ND	25.0000	
Lead	ug/L	MW97T	08/10/1993	ND	25.0000	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	
Lead	ug/L	MW97T	10/13/1993	ND	25.0000	
Lead	ug/L	MW97T	02/16/1994	ND	25.0000	
Lead	ug/L	MW97T	05/09/1994	ND	25.0000	
Lead	ug/L	MW97T	07/20/1994	ND	25.0000	
Lead	ug/L	MW97T	10/24/1994	ND	25.0000	
Lead	ug/L	MW97T	01/17/1995	ND	25.0000	
Lead	ug/L	MW97T	04/07/1995	ND	25.0000	
Lead	ug/L	MW97T	07/25/1995	ND	25.0000	
Lead	ug/L	MW98TR	07/25/1995	ND	25.0000	
Lead	ug/L	MW98TR	10/25/1995	ND	25.0000	
Lead	ug/L	MW98TR	01/17/1996	ND	25.0000	
Lead	ug/L	MW98TR	04/23/1996	ND	25.0000	
Lead	ug/L	MW98TR	07/18/1996	ND	25.0000	
Lead	ug/L	MW98TR	10/22/1996	ND	25.0000	
Lead	ug/L	MW98TR	01/21/1997	ND	25.0000	
Lead	ug/L	MW98TR	04/22/1997	ND	25.0000	
Lead	ug/L	MW98TR	07/15/1997	ND	25.0000	
Lead	ug/L	MW98TR	10/21/1997	ND	25.0000	
Lead	ug/L	MW98TR	01/20/1998	ND	25.0000	
Lead	ug/L	MW98TR	07/16/1998	ND	25.0000	
Lead	ug/L	MW98TR	10/20/1998	ND	25.0000	
Lead	ug/L	MW98TR	01/20/1999	ND	25.0000	
Lead	ug/L	MW98TR	04/21/1999	ND	25.0000	
Lead	ug/L	MW98TR	07/20/1999	ND	5.0000	
Lead	ug/L	MW98TR	10/19/1999	ND	5.0000	
Lead	ug/L	MW98TR	01/19/2000	ND	25.0000	
Lead	ug/L	MW98TR	04/19/2000	ND	25.0000	
Lead	ug/L	MW98TR	07/19/2000	ND	25.0000	
Lead	ug/L	MW98TR	10/18/2000	ND	25.0000	
Lead	ug/L	MW98TR	01/17/2001	ND	25.0000	
Lead	ug/L	MW98TR	04/19/2001	ND	25.0000	
Lead	ug/L	MW98TR	07/18/2001	ND	25.0000	
Lead	ug/L	MW98TR	10/18/2001	ND	25.0000	
Lead	ug/L	MW98TR	01/16/2002	ND	25.0000	
Lead	ug/L	MW98TR	04/18/2002	ND	25.0000	
Lead	ug/L	MW98TR	07/18/2002	ND	25.0000	
Lead	ug/L	MW98TR	10/24/2002	ND	25.0000	
Lead	ug/L	MW98TR	01/21/2003	ND	25.0000	
Lead	ug/L	MW98TR	04/21/2003	ND	25.0000	
Lead	ug/L	MW98TR	07/16/2003	ND	25.0000	
Lead	ug/L	MW98TR	10/23/2003	ND	25.0000	
Lead	ug/L	MW98TR	01/20/2004	ND	15.0000	
Lead	ug/L	MW98TR	01/27/2005	ND	15.0000	
Lead	ug/L	MW98TR	01/17/2006	ND	15.0000	
Lead	ug/L	MW98TR	02/08/2007	ND	15.0000	
Lead	ug/L	MW98TR	02/22/2008	ND	15.0000	
Lead	ug/L	MW98TR	02/06/2009	ND	15.0000	
Lead	ug/L	MW98TR	02/09/2010	ND	10.0000	
Lead	ug/L	MW98TR	02/17/2011	ND	15.0000	
Lead	ug/L	MW98TR	03/09/2012	ND	15.0000	
Lead	ug/L	MW98TR	02/15/2013	ND	15.0000	
Lead	ug/L	MW98TR	02/06/2014	ND	15.0000	
Lead	ug/L	MW98TR	02/04/2015	ND	15.0000	
Lead	ug/L	MW98TR	02/10/2016	ND	15.0000	
Lead	ug/L	MW98TR	02/01/2017	ND	15.0000	
Mercury	ug/L	MW126T	11/08/1995	ND	0.2000	
Mercury	ug/L	MW126T	02/29/1996	ND	0.2000	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	
Mercury	ug/L	MW126T	04/23/1996	ND	0.2000	
Mercury	ug/L	MW126T	07/22/1996	ND	0.2000	
Mercury	ug/L	MW126T	10/21/1996	ND	0.2000	
Mercury	ug/L	MW126T	01/20/1997	ND	0.2000	
Mercury	ug/L	MW126T	04/23/1997	ND	0.2000	
Mercury	ug/L	MW126T	07/15/1997	ND	0.2000	
Mercury	ug/L	MW126T	10/16/1997	ND	0.2000	
Mercury	ug/L	MW126T	01/19/1998	ND	0.2000	
Mercury	ug/L	MW126T	04/16/1998	ND	0.2000	
Mercury	ug/L	MW126T	07/16/1998	ND	0.2000	
Mercury	ug/L	MW126T	10/15/1998	ND	0.2000	
Mercury	ug/L	MW126T	01/18/1999	ND	0.2000	
Mercury	ug/L	MW126T	04/21/1999	ND	0.2000	
Mercury	ug/L	MW126T	07/19/1999	ND	0.2000	
Mercury	ug/L	MW126T	10/20/1999	ND	0.2000	
Mercury	ug/L	MW126T	01/17/2000	ND	0.2000	
Mercury	ug/L	MW126T	04/19/2000	ND	0.2000	
Mercury	ug/L	MW126T	07/17/2000	ND	0.2000	
Mercury	ug/L	MW126T	10/18/2000	ND	0.2000	
Mercury	ug/L	MW126T	01/18/2001	ND	0.2000	
Mercury	ug/L	MW126T	04/19/2001	ND	0.2000	
Mercury	ug/L	MW126T	07/16/2001	ND	0.2000	
Mercury	ug/L	MW126T	10/18/2001	ND	0.2000	
Mercury	ug/L	MW126T	01/17/2002	ND	0.2000	
Mercury	ug/L	MW126T	04/18/2002	ND	0.2000	
Mercury	ug/L	MW126T	07/17/2002	ND	0.2000	
Mercury	ug/L	MW126T	10/24/2002	ND	0.2000	
Mercury	ug/L	MW126T	01/20/2003	ND	0.2000	
Mercury	ug/L	MW126T	04/21/2003	ND	0.2000	
Mercury	ug/L	MW126T	07/16/2003	ND	0.2000	
Mercury	ug/L	MW126T	10/23/2003	ND	0.2000	
Mercury	ug/L	MW126T	01/19/2004	ND	0.2000	
Mercury	ug/L	MW126T	01/26/2005	ND	0.2000	
Mercury	ug/L	MW126T	01/16/2006	ND	0.2000	
Mercury	ug/L	MW126T	02/09/2007	ND	0.2000	
Mercury	ug/L	MW126T	02/22/2008	ND	0.2000	
Mercury	ug/L	MW126T	02/06/2009	ND	0.2000	
Mercury	ug/L	MW126T	02/10/2010	ND	0.2000	
Mercury	ug/L	MW126T	02/17/2011	ND	0.2000	
Mercury	ug/L	MW126T	03/09/2012	ND	0.2000	
Mercury	ug/L	MW126T	02/15/2013	ND	0.2000	
Mercury	ug/L	MW126T	02/06/2014	ND	0.2000	
Mercury	ug/L	MW126T	02/05/2015	ND	0.2000	
Mercury	ug/L	MW126T	02/10/2016	ND	0.2000	
Mercury	ug/L	MW126T	02/02/2017	ND	0.2000	
Mercury	ug/L	MW96T	04/14/1993	ND	0.2000	
Mercury	ug/L	MW96T	08/11/1993	ND	0.2000	
Mercury	ug/L	MW96T	10/13/1993	ND	0.2000	
Mercury	ug/L	MW96T	01/04/1994	ND	0.2000	
Mercury	ug/L	MW96T	04/05/1994	ND	0.2000	
Mercury	ug/L	MW96T	07/19/1994	ND	0.2000	
Mercury	ug/L	MW96T	10/20/1994	ND	0.2000	
Mercury	ug/L	MW96T	01/17/1995	ND	0.2000	
Mercury	ug/L	MW96T	04/24/1995	ND	0.2000	
Mercury	ug/L	MW96T	07/25/1995		0.2590	
Mercury	ug/L	MW96T	10/11/1995	ND	0.2000	
Mercury	ug/L	MW96T	01/17/1996	ND	0.2000	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result
Mercury	ug/L	MW96T	04/18/1996	ND	0.2000
Mercury	ug/L	MW96T	07/18/1996	ND	0.2000
Mercury	ug/L	MW96T	10/22/1996	ND	0.2000
Mercury	ug/L	MW96T	01/21/1997	ND	0.2000
Mercury	ug/L	MW96T	04/22/1997	ND	0.2000
Mercury	ug/L	MW96T	07/15/1997	ND	0.2000
Mercury	ug/L	MW96T	10/21/1997	ND	0.2000
Mercury	ug/L	MW96T	01/15/1998		0.2220
Mercury	ug/L	MW96T	04/22/1998	ND	0.2000
Mercury	ug/L	MW96T	07/16/1998	ND	0.2000
Mercury	ug/L	MW96T	10/20/1998	ND	0.2000
Mercury	ug/L	MW96T	01/20/1999	ND	0.2000
Mercury	ug/L	MW96T	04/21/1999	ND	0.2000
Mercury	ug/L	MW96T	07/20/1999	ND	0.2000
Mercury	ug/L	MW96T	10/19/1999	ND	0.2000
Mercury	ug/L	MW96T	01/19/2000	ND	0.2000
Mercury	ug/L	MW96T	04/19/2000	ND	0.2000
Mercury	ug/L	MW96T	07/19/2000	ND	0.2000
Mercury	ug/L	MW96T	10/18/2000	ND	0.2000
Mercury	ug/L	MW96T	01/17/2001	ND	0.2000
Mercury	ug/L	MW96T	04/19/2001	ND	0.2000
Mercury	ug/L	MW96T	07/18/2001	ND	0.2000
Mercury	ug/L	MW96T	10/18/2001	ND	0.2000
Mercury	ug/L	MW96T	01/16/2002	ND	0.2000
Mercury	ug/L	MW96T	04/18/2002	ND	0.2000
Mercury	ug/L	MW96T	07/18/2002	ND	0.2000
Mercury	ug/L	MW96T	10/24/2002	ND	0.2000
Mercury	ug/L	MW96T	01/21/2003	ND	0.2000
Mercury	ug/L	MW96T	04/21/2003	ND	0.2000
Mercury	ug/L	MW96T	07/16/2003	ND	0.2000
Mercury	ug/L	MW96T	10/23/2003	ND	0.2000
Mercury	ug/L	MW96T	01/20/2004		0.2590
Mercury	ug/L	MW96T	01/27/2005	ND	0.2000
Mercury	ug/L	MW96T	01/17/2006	ND	0.2000
Mercury	ug/L	MW96T	02/08/2007	ND	0.2000
Mercury	ug/L	MW96T	02/22/2008	ND	0.2000
Mercury	ug/L	MW96T	02/06/2009	ND	0.2000
Mercury	ug/L	MW96T	02/09/2010	ND	0.2000
Mercury	ug/L	MW96T	02/17/2011	ND	0.2000
Mercury	ug/L	MW96T	03/09/2012	ND	0.2000
Mercury	ug/L	MW96T	02/19/2013	ND	0.2000
Mercury	ug/L	MW96T	02/07/2014	ND	0.2000
Mercury	ug/L	MW96T	02/04/2015	ND	0.2000
Mercury	ug/L	MW96T	02/10/2016	ND	0.2000
Mercury	ug/L	MW96T	02/01/2017	ND	0.2000
Mercury	ug/L	MW97T	02/10/1993	ND	0.2000
Mercury	ug/L	MW97T	04/14/1993	ND	0.2000
Mercury	ug/L	MW97T	08/10/1993	ND	0.2000
Mercury	ug/L	MW97T	10/13/1993	ND	0.2000
Mercury	ug/L	MW97T	02/16/1994	ND	0.2000
Mercury	ug/L	MW97T	05/09/1994	ND	0.2000
Mercury	ug/L	MW97T	07/20/1994	ND	0.2000
Mercury	ug/L	MW97T	10/24/1994	ND	0.2000
Mercury	ug/L	MW97T	01/17/1995	ND	0.2000
Mercury	ug/L	MW97T	04/07/1995	ND	0.2000
Mercury	ug/L	MW97T	07/25/1995	ND	0.2000
Mercury	ug/L	MW98TR	07/25/1995	ND	0.2000

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	
Mercury	ug/L	MW98TR	10/25/1995	ND	0.2000	
Mercury	ug/L	MW98TR	01/17/1996	ND	0.2000	
Mercury	ug/L	MW98TR	04/23/1996	ND	0.2000	
Mercury	ug/L	MW98TR	07/18/1996	ND	0.2000	
Mercury	ug/L	MW98TR	10/22/1996	ND	0.2000	
Mercury	ug/L	MW98TR	01/21/1997	ND	0.2000	
Mercury	ug/L	MW98TR	04/22/1997	ND	0.2000	
Mercury	ug/L	MW98TR	07/15/1997	ND	0.2000	
Mercury	ug/L	MW98TR	10/21/1997	ND	0.2000	
Mercury	ug/L	MW98TR	01/20/1998	ND	0.2000	
Mercury	ug/L	MW98TR	07/16/1998	ND	0.2000	
Mercury	ug/L	MW98TR	10/20/1998	ND	0.2000	
Mercury	ug/L	MW98TR	01/20/1999	ND	0.2000	
Mercury	ug/L	MW98TR	04/21/1999	ND	0.2000	
Mercury	ug/L	MW98TR	07/20/1999	ND	0.2000	
Mercury	ug/L	MW98TR	10/19/1999	ND	0.2000	
Mercury	ug/L	MW98TR	01/19/2000	ND	0.2000	
Mercury	ug/L	MW98TR	04/19/2000	ND	0.2000	
Mercury	ug/L	MW98TR	07/19/2000	ND	0.2000	
Mercury	ug/L	MW98TR	10/18/2000	ND	0.2000	
Mercury	ug/L	MW98TR	01/17/2001	ND	0.2000	
Mercury	ug/L	MW98TR	04/19/2001	ND	0.2000	
Mercury	ug/L	MW98TR	07/18/2001	ND	0.2000	
Mercury	ug/L	MW98TR	10/18/2001	ND	0.2000	
Mercury	ug/L	MW98TR	01/16/2002	ND	0.2000	
Mercury	ug/L	MW98TR	04/18/2002	ND	0.2000	
Mercury	ug/L	MW98TR	07/18/2002	ND	0.2000	
Mercury	ug/L	MW98TR	10/24/2002	ND	0.2000	
Mercury	ug/L	MW98TR	01/21/2003	ND	0.2000	
Mercury	ug/L	MW98TR	04/21/2003	ND	0.2000	
Mercury	ug/L	MW98TR	07/16/2003	ND	0.2000	
Mercury	ug/L	MW98TR	10/23/2003	ND	0.2000	
Mercury	ug/L	MW98TR	01/20/2004	ND	0.2000	
Mercury	ug/L	MW98TR	01/27/2005	ND	0.2000	
Mercury	ug/L	MW98TR	01/17/2006	ND	0.2000	
Mercury	ug/L	MW98TR	02/08/2007	ND	0.2000	
Mercury	ug/L	MW98TR	02/22/2008	ND	0.2000	
Mercury	ug/L	MW98TR	02/06/2009	ND	0.2000	
Mercury	ug/L	MW98TR	02/09/2010	ND	0.2000	
Mercury	ug/L	MW98TR	02/17/2011	ND	0.2000	
Mercury	ug/L	MW98TR	03/09/2012	ND	0.2000	
Mercury	ug/L	MW98TR	02/15/2013	ND	0.2000	
Mercury	ug/L	MW98TR	02/06/2014	ND	0.2000	
Mercury	ug/L	MW98TR	02/04/2015	ND	0.2000	
Mercury	ug/L	MW98TR	02/10/2016	ND	0.2000	
Mercury	ug/L	MW98TR	02/01/2017	ND	0.2000	
Nickel	ug/L	MW126T	11/08/1995	ND	50.0000	
Nickel	ug/L	MW126T	02/29/1996	ND	50.0000	
Nickel	ug/L	MW126T	04/23/1996	ND	50.0000	
Nickel	ug/L	MW126T	07/22/1996	ND	50.0000	
Nickel	ug/L	MW126T	10/21/1996	ND	50.0000	
Nickel	ug/L	MW126T	01/20/1997	ND	50.0000	
Nickel	ug/L	MW126T	04/23/1997	ND	50.0000	
Nickel	ug/L	MW126T	07/15/1997	ND	50.0000	
Nickel	ug/L	MW126T	10/16/1997	ND	50.0000	
Nickel	ug/L	MW126T	01/19/1998	ND	50.0000	
Nickel	ug/L	MW126T	04/16/1998	ND	50.0000	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	
Nickel	ug/L	MW126T	07/16/1998	ND	50.0000	
Nickel	ug/L	MW126T	10/15/1998	ND	50.0000	
Nickel	ug/L	MW126T	01/18/1999	ND	50.0000	
Nickel	ug/L	MW126T	04/21/1999	ND	50.0000	
Nickel	ug/L	MW126T	07/19/1999	ND	50.0000	
Nickel	ug/L	MW126T	10/20/1999	ND	50.0000	
Nickel	ug/L	MW126T	01/17/2000	ND	50.0000	
Nickel	ug/L	MW126T	04/19/2000	ND	50.0000	
Nickel	ug/L	MW126T	07/17/2000	ND	50.0000	
Nickel	ug/L	MW126T	10/18/2000	ND	50.0000	
Nickel	ug/L	MW126T	01/18/2001	ND	50.0000	
Nickel	ug/L	MW126T	04/19/2001	ND	50.0000	
Nickel	ug/L	MW126T	07/16/2001	ND	50.0000	
Nickel	ug/L	MW126T	10/18/2001	ND	50.0000	
Nickel	ug/L	MW126T	01/17/2002	ND	50.0000	
Nickel	ug/L	MW126T	04/18/2002	ND	50.0000	
Nickel	ug/L	MW126T	07/17/2002	ND	50.0000	
Nickel	ug/L	MW126T	10/24/2002	ND	50.0000	
Nickel	ug/L	MW126T	01/20/2003	ND	50.0000	
Nickel	ug/L	MW126T	04/21/2003	ND	50.0000	
Nickel	ug/L	MW126T	07/16/2003	ND	50.0000	
Nickel	ug/L	MW126T	10/23/2003	ND	50.0000	
Nickel	ug/L	MW126T	01/19/2004	ND	50.0000	
Nickel	ug/L	MW126T	01/26/2005	ND	50.0000	
Nickel	ug/L	MW126T	01/16/2006	ND	50.0000	
Nickel	ug/L	MW126T	02/09/2007	ND	50.0000	
Nickel	ug/L	MW126T	02/22/2008	ND	50.0000	
Nickel	ug/L	MW126T	02/06/2009	ND	50.0000	
Nickel	ug/L	MW126T	02/10/2010	ND	5.0000	
Nickel	ug/L	MW126T	02/17/2011	ND	50.0000	
Nickel	ug/L	MW126T	03/09/2012	ND	50.0000	
Nickel	ug/L	MW126T	02/15/2013	ND	50.0000	
Nickel	ug/L	MW126T	02/06/2014	ND	50.0000	
Nickel	ug/L	MW126T	02/05/2015	ND	50.0000	
Nickel	ug/L	MW126T	02/10/2016	ND	50.0000	
Nickel	ug/L	MW126T	02/02/2017	ND	50.0000	
Nickel	ug/L	MW96T	04/14/1993	ND	50.0000	
Nickel	ug/L	MW96T	08/11/1993	ND	50.0000	
Nickel	ug/L	MW96T	10/13/1993	ND	50.0000	
Nickel	ug/L	MW96T	01/04/1994	ND	50.0000	
Nickel	ug/L	MW96T	04/05/1994	ND	50.0000	
Nickel	ug/L	MW96T	07/19/1994	ND	50.0000	
Nickel	ug/L	MW96T	10/20/1994	ND	50.0000	
Nickel	ug/L	MW96T	01/17/1995	ND	50.0000	
Nickel	ug/L	MW96T	04/24/1995	ND	50.0000	
Nickel	ug/L	MW96T	07/25/1995	ND	50.0000	
Nickel	ug/L	MW96T	10/11/1995	ND	50.0000	
Nickel	ug/L	MW96T	01/17/1996	ND	50.0000	
Nickel	ug/L	MW96T	04/18/1996	ND	50.0000	
Nickel	ug/L	MW96T	07/18/1996	ND	50.0000	
Nickel	ug/L	MW96T	10/22/1996	ND	50.0000	
Nickel	ug/L	MW96T	01/21/1997	ND	50.0000	
Nickel	ug/L	MW96T	04/22/1997	ND	50.0000	
Nickel	ug/L	MW96T	07/15/1997	ND	50.0000	
Nickel	ug/L	MW96T	10/21/1997	ND	50.0000	
Nickel	ug/L	MW96T	01/15/1998	ND	50.0000	
Nickel	ug/L	MW96T	04/22/1998	ND	50.0000	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	
Nickel	ug/L	MW96T	07/16/1998	ND	50.0000	
Nickel	ug/L	MW96T	10/20/1998	ND	50.0000	
Nickel	ug/L	MW96T	01/20/1999	ND	50.0000	
Nickel	ug/L	MW96T	04/21/1999	ND	50.0000	
Nickel	ug/L	MW96T	07/20/1999	ND	50.0000	
Nickel	ug/L	MW96T	10/19/1999	ND	50.0000	
Nickel	ug/L	MW96T	01/19/2000	ND	50.0000	
Nickel	ug/L	MW96T	04/19/2000	ND	50.0000	
Nickel	ug/L	MW96T	07/19/2000	ND	50.0000	
Nickel	ug/L	MW96T	10/18/2000	ND	50.0000	
Nickel	ug/L	MW96T	01/17/2001	ND	50.0000	
Nickel	ug/L	MW96T	04/19/2001	ND	50.0000	
Nickel	ug/L	MW96T	07/18/2001	ND	50.0000	
Nickel	ug/L	MW96T	10/18/2001	ND	50.0000	
Nickel	ug/L	MW96T	01/16/2002	ND	50.0000	
Nickel	ug/L	MW96T	04/18/2002	ND	50.0000	
Nickel	ug/L	MW96T	07/18/2002	ND	50.0000	
Nickel	ug/L	MW96T	10/24/2002	ND	50.0000	
Nickel	ug/L	MW96T	01/21/2003	ND	50.0000	
Nickel	ug/L	MW96T	04/21/2003	ND	50.0000	
Nickel	ug/L	MW96T	07/16/2003	ND	50.0000	
Nickel	ug/L	MW96T	10/23/2003	ND	50.0000	
Nickel	ug/L	MW96T	01/20/2004	ND	50.0000	
Nickel	ug/L	MW96T	01/27/2005	ND	50.0000	
Nickel	ug/L	MW96T	01/17/2006	ND	50.0000	
Nickel	ug/L	MW96T	02/08/2007	ND	50.0000	
Nickel	ug/L	MW96T	02/22/2008	ND	50.0000	
Nickel	ug/L	MW96T	02/06/2009	ND	50.0000	
Nickel	ug/L	MW96T	02/09/2010	ND	5.0000	
Nickel	ug/L	MW96T	02/17/2011	ND	50.0000	
Nickel	ug/L	MW96T	03/09/2012	ND	50.0000	
Nickel	ug/L	MW96T	02/19/2013	ND	50.0000	
Nickel	ug/L	MW96T	02/07/2014	ND	50.0000	
Nickel	ug/L	MW96T	02/04/2015	ND	50.0000	
Nickel	ug/L	MW96T	02/10/2016	ND	50.0000	
Nickel	ug/L	MW96T	02/01/2017	ND	50.0000	
Nickel	ug/L	MW97T	02/10/1993	ND	50.0000	
Nickel	ug/L	MW97T	04/14/1993	ND	50.0000	
Nickel	ug/L	MW97T	08/10/1993	ND	50.0000	
Nickel	ug/L	MW97T	10/13/1993	ND	50.0000	
Nickel	ug/L	MW97T	02/16/1994	ND	50.0000	
Nickel	ug/L	MW97T	05/09/1994	ND	50.0000	
Nickel	ug/L	MW97T	07/20/1994	ND	50.0000	
Nickel	ug/L	MW97T	10/24/1994	ND	50.0000	
Nickel	ug/L	MW97T	01/17/1995	ND	50.0000	
Nickel	ug/L	MW97T	04/07/1995	ND	50.0000	
Nickel	ug/L	MW97T	07/25/1995	ND	50.0000	
Nickel	ug/L	MW98TR	07/25/1995	ND	50.0000	
Nickel	ug/L	MW98TR	10/25/1995	ND	50.0000	
Nickel	ug/L	MW98TR	01/17/1996	ND	50.0000	
Nickel	ug/L	MW98TR	04/23/1996	ND	50.0000	
Nickel	ug/L	MW98TR	07/18/1996	ND	50.0000	
Nickel	ug/L	MW98TR	10/22/1996	ND	50.0000	
Nickel	ug/L	MW98TR	01/21/1997	ND	50.0000	
Nickel	ug/L	MW98TR	04/22/1997	ND	50.0000	
Nickel	ug/L	MW98TR	07/15/1997	ND	50.0000	
Nickel	ug/L	MW98TR	10/21/1997	ND	50.0000	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	
Nickel	ug/L	MW98TR	01/20/1998	ND	50.0000	
Nickel	ug/L	MW98TR	07/16/1998	ND	50.0000	
Nickel	ug/L	MW98TR	10/20/1998	ND	50.0000	
Nickel	ug/L	MW98TR	01/20/1999	ND	50.0000	
Nickel	ug/L	MW98TR	04/21/1999	ND	50.0000	
Nickel	ug/L	MW98TR	07/20/1999	ND	50.0000	
Nickel	ug/L	MW98TR	10/19/1999	ND	50.0000	
Nickel	ug/L	MW98TR	01/19/2000	ND	50.0000	
Nickel	ug/L	MW98TR	04/19/2000	ND	50.0000	
Nickel	ug/L	MW98TR	07/19/2000	ND	50.0000	
Nickel	ug/L	MW98TR	10/18/2000	ND	50.0000	
Nickel	ug/L	MW98TR	01/17/2001	ND	50.0000	
Nickel	ug/L	MW98TR	04/19/2001	ND	50.0000	
Nickel	ug/L	MW98TR	07/18/2001	ND	50.0000	
Nickel	ug/L	MW98TR	10/18/2001	ND	50.0000	
Nickel	ug/L	MW98TR	01/16/2002	ND	50.0000	
Nickel	ug/L	MW98TR	04/18/2002	ND	50.0000	
Nickel	ug/L	MW98TR	07/18/2002	ND	50.0000	
Nickel	ug/L	MW98TR	10/24/2002	ND	50.0000	
Nickel	ug/L	MW98TR	01/21/2003	ND	50.0000	
Nickel	ug/L	MW98TR	04/21/2003	ND	50.0000	
Nickel	ug/L	MW98TR	07/16/2003	ND	50.0000	
Nickel	ug/L	MW98TR	10/23/2003	ND	50.0000	
Nickel	ug/L	MW98TR	01/20/2004	ND	50.0000	
Nickel	ug/L	MW98TR	01/27/2005	ND	50.0000	
Nickel	ug/L	MW98TR	01/17/2006	ND	50.0000	
Nickel	ug/L	MW98TR	02/08/2007	ND	50.0000	
Nickel	ug/L	MW98TR	02/22/2008	ND	50.0000	
Nickel	ug/L	MW98TR	02/06/2009	ND	50.0000	
Nickel	ug/L	MW98TR	02/09/2010	ND	5.0000	
Nickel	ug/L	MW98TR	02/17/2011	ND	50.0000	
Nickel	ug/L	MW98TR	03/09/2012	ND	50.0000	
Nickel	ug/L	MW98TR	02/15/2013	ND	50.0000	
Nickel	ug/L	MW98TR	02/06/2014	ND	50.0000	
Nickel	ug/L	MW98TR	02/04/2015	ND	50.0000	
Nickel	ug/L	MW98TR	02/10/2016	ND	50.0000	
Nickel	ug/L	MW98TR	02/01/2017	ND	50.0000	
pH	SU	MW126T	11/08/1995		6.8200	
pH	SU	MW126T	02/29/1996		6.7900	
pH	SU	MW126T	04/23/1996		7.0400	
pH	SU	MW126T	07/22/1996		6.5200	
pH	SU	MW126T	10/21/1996		6.7400	
pH	SU	MW126T	01/20/1997		6.4900	
pH	SU	MW126T	04/23/1997		6.7400	
pH	SU	MW126T	07/15/1997		6.2800	
pH	SU	MW126T	10/16/1997		6.9200	
pH	SU	MW126T	01/19/1998		6.4100	
pH	SU	MW126T	04/16/1998		6.8900	
pH	SU	MW126T	07/16/1998		6.3600	
pH	SU	MW126T	10/15/1998		5.9400	
pH	SU	MW126T	01/18/1999		7.0500	
pH	SU	MW126T	04/21/1999		6.6400	
pH	SU	MW126T	07/19/1999		6.6100	
pH	SU	MW126T	10/20/1999		6.8900	
pH	SU	MW126T	01/17/2000		6.8800	
pH	SU	MW126T	04/19/2000		6.8500	
pH	SU	MW126T	07/17/2000		6.8700	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	
pH	SU	MW126T	10/18/2000		7.0800	
pH	SU	MW126T	01/18/2001		6.5900	
pH	SU	MW126T	04/19/2001		7.0000	
pH	SU	MW126T	07/16/2001		6.7100	
pH	SU	MW126T	10/18/2001		7.1200	
pH	SU	MW126T	01/17/2002		6.8600	
pH	SU	MW126T	04/18/2002		7.2100	
pH	SU	MW126T	07/17/2002		6.9800	
pH	SU	MW126T	10/24/2002		7.4500	
pH	SU	MW126T	01/20/2003		6.9800	
pH	SU	MW126T	04/21/2003		7.4900	
pH	SU	MW126T	07/16/2003		6.6900	
pH	SU	MW126T	10/23/2003		7.3600	
pH	SU	MW126T	01/19/2004		7.0000	
pH	SU	MW126T	01/26/2005		7.0000	
pH	SU	MW126T	01/16/2006		7.1000	
pH	SU	MW126T	02/09/2007		7.1000	
pH	SU	MW126T	02/22/2008		6.9000	
pH	SU	MW126T	02/06/2009		6.9000	
pH	SU	MW126T	02/10/2010		6.7000	
pH	SU	MW126T	02/17/2011		7.0000	
pH	SU	MW126T	03/09/2012		6.9800	
pH	SU	MW126T	02/15/2013		7.0600	
pH	SU	MW126T	02/06/2014		7.3800	
pH	SU	MW126T	02/05/2015		7.0200	
pH	SU	MW126T	02/10/2016		7.0200	
pH	SU	MW126T	02/02/2017		6.4900	
pH	SU	MW96T	08/30/1993		6.8700	
pH	SU	MW96T	10/30/1993		7.2100	
pH	SU	MW96T	01/28/1994		7.2900	
pH	SU	MW96T	04/29/1994		7.1700	
pH	SU	MW96T	07/19/1994		9.3000	
pH	SU	MW96T	10/20/1994		7.5800	
pH	SU	MW96T	01/17/1995		7.3500	
pH	SU	MW96T	04/24/1995		8.2700	
pH	SU	MW96T	07/25/1995		7.1900	
pH	SU	MW96T	10/11/1995		7.0800	
pH	SU	MW96T	01/17/1996		7.1200	
pH	SU	MW96T	04/18/1996		7.2100	
pH	SU	MW96T	07/18/1996		7.0600	
pH	SU	MW96T	10/22/1996		7.2200	
pH	SU	MW96T	01/21/1997		6.8700	
pH	SU	MW96T	04/22/1997		7.0800	
pH	SU	MW96T	07/15/1997		6.8900	
pH	SU	MW96T	10/21/1997		6.6300	
pH	SU	MW96T	01/15/1998		6.4700	
pH	SU	MW96T	04/22/1998		7.0400	
pH	SU	MW96T	07/16/1998		7.4600	
pH	SU	MW96T	10/20/1998		6.7700	
pH	SU	MW96T	01/20/1999		7.1000	
pH	SU	MW96T	04/21/1999		6.8000	
pH	SU	MW96T	07/20/1999		7.0600	
pH	SU	MW96T	10/19/1999		7.2800	
pH	SU	MW96T	01/19/2000		7.0800	
pH	SU	MW96T	04/19/2000		6.6300	
pH	SU	MW96T	07/19/2000		6.6200	
pH	SU	MW96T	10/18/2000		7.1600	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	
pH	SU	MW96T	01/17/2001		6.8900	
pH	SU	MW96T	04/19/2001		7.1200	
pH	SU	MW96T	07/18/2001		7.4600	
pH	SU	MW96T	10/18/2001		7.2600	
pH	SU	MW96T	01/16/2002		7.1800	
pH	SU	MW96T	04/18/2002		7.0300	
pH	SU	MW96T	07/18/2002		7.1200	
pH	SU	MW96T	10/24/2002		7.6900	
pH	SU	MW96T	01/21/2003		7.2000	
pH	SU	MW96T	04/21/2003		7.6100	
pH	SU	MW96T	07/16/2003		8.1700	
pH	SU	MW96T	10/23/2003		8.8300	
pH	SU	MW96T	01/20/2004		7.5000	
pH	SU	MW96T	01/27/2005		7.5000	
pH	SU	MW96T	01/17/2006		7.5000	
pH	SU	MW96T	02/08/2007		7.7000	
pH	SU	MW96T	02/22/2008		7.2000	
pH	SU	MW96T	02/06/2009		7.1000	
pH	SU	MW96T	02/09/2010		7.4000	
pH	SU	MW96T	02/17/2011		7.4000	
pH	SU	MW96T	03/09/2012		7.4400	
pH	SU	MW96T	02/19/2013		6.8600	
pH	SU	MW96T	02/07/2014		7.0900	
pH	SU	MW96T	02/04/2015		7.6200	
pH	SU	MW96T	02/10/2016		9.1700	
pH	SU	MW96T	02/01/2017		7.7500	
pH	SU	MW97T	04/30/1993		6.8200	
pH	SU	MW97T	08/30/1993		6.9500	
pH	SU	MW97T	10/30/1993		6.7500	
pH	SU	MW97T	02/25/1994		7.2500	
pH	SU	MW97T	05/30/1994		7.2100	
pH	SU	MW97T	07/20/1994		9.1300	
pH	SU	MW97T	10/24/1994		7.5000	
pH	SU	MW97T	01/17/1995		7.2100	
pH	SU	MW97T	04/07/1995		6.5700	
pH	SU	MW97T	07/25/1995		6.7400	
pH	SU	MW98TR	07/25/1995		7.8500	
pH	SU	MW98TR	10/25/1995		8.7600	
pH	SU	MW98TR	01/17/1996		7.6300	
pH	SU	MW98TR	04/23/1996		7.3700	
pH	SU	MW98TR	07/18/1996		7.6700	
pH	SU	MW98TR	10/22/1996		7.5700	
pH	SU	MW98TR	01/21/1997		7.1000	
pH	SU	MW98TR	04/22/1997		7.3200	
pH	SU	MW98TR	07/15/1997		7.5000	
pH	SU	MW98TR	10/21/1997		7.0000	
pH	SU	MW98TR	01/20/1998		7.0600	
pH	SU	MW98TR	07/16/1998		7.4900	
pH	SU	MW98TR	10/20/1998		6.9800	
pH	SU	MW98TR	01/20/1999		7.3400	
pH	SU	MW98TR	04/21/1999		6.8200	
pH	SU	MW98TR	07/20/1999		7.4600	
pH	SU	MW98TR	10/19/1999		8.0700	
pH	SU	MW98TR	01/19/2000		7.5300	
pH	SU	MW98TR	04/19/2000		7.3400	
pH	SU	MW98TR	07/19/2000		7.5000	
pH	SU	MW98TR	10/18/2000		8.0500	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	
pH	SU	MW98TR	01/17/2001		7.6600	
pH	SU	MW98TR	04/19/2001		7.9800	
pH	SU	MW98TR	07/18/2001		7.7400	
pH	SU	MW98TR	10/18/2001		7.5300	
pH	SU	MW98TR	01/16/2002		8.0000	
pH	SU	MW98TR	04/18/2002		7.6500	
pH	SU	MW98TR	07/18/2002		7.3500	
pH	SU	MW98TR	10/24/2002		7.9000	
pH	SU	MW98TR	01/21/2003		7.6200	
pH	SU	MW98TR	04/21/2003		7.7900	
pH	SU	MW98TR	07/16/2003		7.2000	
pH	SU	MW98TR	10/23/2003		7.7200	
pH	SU	MW98TR	01/20/2004		7.8000	
pH	SU	MW98TR	01/27/2005		8.0000	
pH	SU	MW98TR	01/17/2006		8.0000	
pH	SU	MW98TR	02/08/2007		8.3000	
pH	SU	MW98TR	02/22/2008		7.7000	
pH	SU	MW98TR	02/06/2009		7.8000	
pH	SU	MW98TR	02/09/2010		7.7000	
pH	SU	MW98TR	02/17/2011		8.0000	
pH	SU	MW98TR	03/09/2012		8.0100	
pH	SU	MW98TR	02/15/2013		7.4600	
pH	SU	MW98TR	02/06/2014		7.5700	
pH	SU	MW98TR	02/04/2015		7.6000	
pH	SU	MW98TR	02/10/2016		7.8300	
pH	SU	MW98TR	02/01/2017		7.3300	
Zinc	ug/L	MW126T	11/08/1995	ND	20.0000	
Zinc	ug/L	MW126T	02/29/1996	ND	20.0000	
Zinc	ug/L	MW126T	04/23/1996	ND	20.0000	
Zinc	ug/L	MW126T	07/22/1996	ND	20.0000	
Zinc	ug/L	MW126T	10/21/1996	ND	20.0000	
Zinc	ug/L	MW126T	01/20/1997	ND	20.0000	
Zinc	ug/L	MW126T	04/23/1997	ND	20.0000	
Zinc	ug/L	MW126T	07/15/1997	ND	20.0000	
Zinc	ug/L	MW126T	10/16/1997	ND	20.0000	
Zinc	ug/L	MW126T	01/19/1998	ND	20.0000	
Zinc	ug/L	MW126T	04/16/1998	ND	20.0000	
Zinc	ug/L	MW126T	07/16/1998	ND	20.0000	
Zinc	ug/L	MW126T	10/15/1998	ND	20.0000	
Zinc	ug/L	MW126T	01/18/1999	ND	20.0000	
Zinc	ug/L	MW126T	04/21/1999	ND	20.0000	
Zinc	ug/L	MW126T	07/19/1999	ND	20.0000	
Zinc	ug/L	MW126T	10/20/1999	ND	20.0000	
Zinc	ug/L	MW126T	01/17/2000	ND	20.0000	
Zinc	ug/L	MW126T	04/19/2000	ND	20.0000	
Zinc	ug/L	MW126T	07/17/2000	ND	20.0000	
Zinc	ug/L	MW126T	10/18/2000	ND	20.0000	
Zinc	ug/L	MW126T	01/18/2001	ND	20.0000	
Zinc	ug/L	MW126T	04/19/2001	ND	20.0000	
Zinc	ug/L	MW126T	07/16/2001	ND	20.0000	
Zinc	ug/L	MW126T	10/18/2001	ND	20.0000	
Zinc	ug/L	MW126T	01/17/2002	ND	20.0000	
Zinc	ug/L	MW126T	04/18/2002	ND	20.0000	
Zinc	ug/L	MW126T	07/17/2002	ND	20.0000	
Zinc	ug/L	MW126T	10/24/2002	ND	20.0000	
Zinc	ug/L	MW126T	01/20/2003	ND	20.0000	
Zinc	ug/L	MW126T	04/21/2003	ND	20.0000	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	
Zinc	ug/L	MW126T	07/16/2003	ND	20.0000	
Zinc	ug/L	MW126T	10/23/2003	ND	20.0000	
Zinc	ug/L	MW126T	01/19/2004	ND	20.0000	
Zinc	ug/L	MW126T	01/26/2005	ND	20.0000	
Zinc	ug/L	MW126T	01/16/2006	ND	20.0000	
Zinc	ug/L	MW126T	02/09/2007	ND	20.0000	
Zinc	ug/L	MW126T	02/22/2008	ND	20.0000	
Zinc	ug/L	MW126T	02/06/2009	ND	20.0000	
Zinc	ug/L	MW126T	02/10/2010	ND	10.0000	
Zinc	ug/L	MW126T	02/17/2011	ND	20.0000	
Zinc	ug/L	MW126T	03/09/2012	ND	20.0000	
Zinc	ug/L	MW126T	02/15/2013	ND	20.0000	
Zinc	ug/L	MW126T	02/06/2014	ND	20.0000	
Zinc	ug/L	MW126T	02/05/2015	ND	20.0000	
Zinc	ug/L	MW126T	02/10/2016	ND	20.0000	
Zinc	ug/L	MW126T	02/02/2017	ND	20.0000	
Zinc	ug/L	MW96T	04/14/1993		46.0000	
Zinc	ug/L	MW96T	08/11/1993		29.0000	
Zinc	ug/L	MW96T	10/13/1993	ND	20.0000	
Zinc	ug/L	MW96T	01/04/1994		47.0000	
Zinc	ug/L	MW96T	04/05/1994	ND	20.0000	
Zinc	ug/L	MW96T	07/19/1994	ND	20.0000	
Zinc	ug/L	MW96T	10/20/1994	ND	20.0000	
Zinc	ug/L	MW96T	01/17/1995	ND	20.0000	
Zinc	ug/L	MW96T	04/24/1995	ND	20.0000	
Zinc	ug/L	MW96T	07/25/1995	ND	20.0000	
Zinc	ug/L	MW96T	10/11/1995	ND	20.0000	
Zinc	ug/L	MW96T	01/17/1996	ND	20.0000	
Zinc	ug/L	MW96T	04/18/1996	ND	20.0000	
Zinc	ug/L	MW96T	07/18/1996	ND	20.0000	
Zinc	ug/L	MW96T	10/22/1996	ND	20.0000	
Zinc	ug/L	MW96T	01/21/1997	ND	20.0000	
Zinc	ug/L	MW96T	04/22/1997	ND	20.0000	
Zinc	ug/L	MW96T	07/15/1997	ND	20.0000	
Zinc	ug/L	MW96T	10/21/1997	ND	20.0000	
Zinc	ug/L	MW96T	01/15/1998	ND	20.0000	
Zinc	ug/L	MW96T	04/22/1998	ND	20.0000	
Zinc	ug/L	MW96T	07/16/1998		63.8000	
Zinc	ug/L	MW96T	10/20/1998	ND	20.0000	
Zinc	ug/L	MW96T	01/20/1999	ND	20.0000	
Zinc	ug/L	MW96T	04/21/1999	ND	20.0000	
Zinc	ug/L	MW96T	07/20/1999	ND	20.0000	
Zinc	ug/L	MW96T	10/19/1999	ND	20.0000	
Zinc	ug/L	MW96T	01/19/2000	ND	20.0000	
Zinc	ug/L	MW96T	04/19/2000	ND	20.0000	
Zinc	ug/L	MW96T	07/19/2000	ND	20.0000	
Zinc	ug/L	MW96T	10/18/2000	ND	20.0000	
Zinc	ug/L	MW96T	01/17/2001	ND	20.0000	
Zinc	ug/L	MW96T	04/19/2001	ND	20.0000	
Zinc	ug/L	MW96T	07/18/2001	ND	20.0000	
Zinc	ug/L	MW96T	10/18/2001	ND	20.0000	
Zinc	ug/L	MW96T	01/16/2002	ND	20.0000	
Zinc	ug/L	MW96T	04/18/2002	ND	20.0000	
Zinc	ug/L	MW96T	07/18/2002	ND	20.0000	
Zinc	ug/L	MW96T	10/24/2002	ND	20.0000	
Zinc	ug/L	MW96T	01/21/2003	ND	20.0000	
Zinc	ug/L	MW96T	04/21/2003	ND	20.0000	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result
Zinc	ug/L	MW96T	07/16/2003	ND	20.0000
Zinc	ug/L	MW96T	10/23/2003	ND	20.0000
Zinc	ug/L	MW96T	01/20/2004	ND	20.0000
Zinc	ug/L	MW96T	01/27/2005	ND	20.0000
Zinc	ug/L	MW96T	01/17/2006	ND	20.0000
Zinc	ug/L	MW96T	02/08/2007	ND	20.0000
Zinc	ug/L	MW96T	02/22/2008	ND	20.0000
Zinc	ug/L	MW96T	02/06/2009	ND	20.0000
Zinc	ug/L	MW96T	02/09/2010	ND	10.0000
Zinc	ug/L	MW96T	02/17/2011	ND	20.0000
Zinc	ug/L	MW96T	03/09/2012	ND	20.0000
Zinc	ug/L	MW96T	02/19/2013	ND	20.0000
Zinc	ug/L	MW96T	02/07/2014	ND	20.0000
Zinc	ug/L	MW96T	02/04/2015	ND	20.0000
Zinc	ug/L	MW96T	02/10/2016	ND	20.0000
Zinc	ug/L	MW96T	02/01/2017	ND	20.0000
Zinc	ug/L	MW97T	02/10/1993	ND	20.0000
Zinc	ug/L	MW97T	04/14/1993	ND	20.0000
Zinc	ug/L	MW97T	08/10/1993	ND	20.0000
Zinc	ug/L	MW97T	10/13/1993	ND	20.0000
Zinc	ug/L	MW97T	02/16/1994	ND	20.0000
Zinc	ug/L	MW97T	05/09/1994		36.0000
Zinc	ug/L	MW97T	07/20/1994	ND	20.0000
Zinc	ug/L	MW97T	10/24/1994	ND	20.0000
Zinc	ug/L	MW97T	01/17/1995	ND	20.0000
Zinc	ug/L	MW97T	04/07/1995	ND	20.0000
Zinc	ug/L	MW97T	07/25/1995	ND	20.0000
Zinc	ug/L	MW98TR	07/25/1995	ND	20.0000
Zinc	ug/L	MW98TR	10/25/1995	ND	20.0000
Zinc	ug/L	MW98TR	01/17/1996	ND	20.0000
Zinc	ug/L	MW98TR	04/23/1996	ND	20.0000
Zinc	ug/L	MW98TR	07/18/1996	ND	20.0000
Zinc	ug/L	MW98TR	10/22/1996	ND	20.0000
Zinc	ug/L	MW98TR	01/21/1997	ND	20.0000
Zinc	ug/L	MW98TR	04/22/1997	ND	20.0000
Zinc	ug/L	MW98TR	07/15/1997	ND	20.0000
Zinc	ug/L	MW98TR	10/21/1997	ND	20.0000
Zinc	ug/L	MW98TR	01/20/1998	ND	20.0000
Zinc	ug/L	MW98TR	07/16/1998	ND	20.0000
Zinc	ug/L	MW98TR	10/20/1998	ND	20.0000
Zinc	ug/L	MW98TR	01/20/1999	ND	20.0000
Zinc	ug/L	MW98TR	04/21/1999	ND	20.0000
Zinc	ug/L	MW98TR	07/20/1999	ND	20.0000
Zinc	ug/L	MW98TR	10/19/1999	ND	20.0000
Zinc	ug/L	MW98TR	01/19/2000	ND	20.0000
Zinc	ug/L	MW98TR	04/19/2000	ND	20.0000
Zinc	ug/L	MW98TR	07/19/2000	ND	20.0000
Zinc	ug/L	MW98TR	10/18/2000	ND	20.0000
Zinc	ug/L	MW98TR	01/17/2001	ND	20.0000
Zinc	ug/L	MW98TR	04/19/2001	ND	20.0000
Zinc	ug/L	MW98TR	07/18/2001	ND	20.0000
Zinc	ug/L	MW98TR	10/18/2001	ND	20.0000
Zinc	ug/L	MW98TR	01/16/2002	ND	20.0000
Zinc	ug/L	MW98TR	04/18/2002	ND	20.0000
Zinc	ug/L	MW98TR	07/18/2002	ND	20.0000
Zinc	ug/L	MW98TR	10/24/2002	ND	20.0000
Zinc	ug/L	MW98TR	01/21/2003	ND	20.0000

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	
Zinc	ug/L	MW98TR	04/21/2003	ND	20.0000	
Zinc	ug/L	MW98TR	07/16/2003	ND	20.0000	
Zinc	ug/L	MW98TR	10/23/2003	ND	20.0000	
Zinc	ug/L	MW98TR	01/20/2004	ND	20.0000	
Zinc	ug/L	MW98TR	01/27/2005	ND	20.0000	
Zinc	ug/L	MW98TR	01/17/2006	ND	20.0000	
Zinc	ug/L	MW98TR	02/08/2007	ND	20.0000	
Zinc	ug/L	MW98TR	02/22/2008	ND	20.0000	
Zinc	ug/L	MW98TR	02/06/2009	ND	20.0000	
Zinc	ug/L	MW98TR	02/09/2010	ND	10.0000	
Zinc	ug/L	MW98TR	02/17/2011	ND	20.0000	
Zinc	ug/L	MW98TR	03/09/2012	ND	20.0000	
Zinc	ug/L	MW98TR	02/15/2013	ND	20.0000	
Zinc	ug/L	MW98TR	02/06/2014	ND	20.0000	
Zinc	ug/L	MW98TR	02/04/2015	ND	20.0000	
Zinc	ug/L	MW98TR	02/10/2016	ND	20.0000	
Zinc	ug/L	MW98TR	02/01/2017	ND	20.0000	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 2

Most Current Downgradient Monitoring Data

Constituent	Units	Well	Date		Result		Pred. Limit
Arsenic	ug/L	MW101T	07/28/2017	ND	15.0000		10.0000
Arsenic	ug/L	MW114T	07/26/2017	ND	15.0000		10.0000
Arsenic	ug/L	MW115T	07/26/2017	ND	15.0000		10.0000
Arsenic	ug/L	MW116T	07/26/2017	ND	15.0000		10.0000
Arsenic	ug/L	MW117T	07/26/2017	ND	15.0000		10.0000
Arsenic	ug/L	MW127T	07/21/2017	ND	15.0000		10.0000
Arsenic	ug/L	MW131T	07/20/2017	ND	15.0000		10.0000
Arsenic	ug/L	MW132T	07/20/2017	ND	15.0000		10.0000
Arsenic	ug/L	MW133T	07/20/2017	ND	15.0000		10.0000
Arsenic	ug/L	MW134T	07/20/2017	ND	15.0000		10.0000
Arsenic	ug/L	MW142T	07/20/2017	ND	15.0000		10.0000
Arsenic	ug/L	MW143T	07/21/2017	ND	15.0000		10.0000
Arsenic	ug/L	MW144T	07/27/2017	ND	15.0000		10.0000
Arsenic	ug/L	MW16TR	07/20/2017	ND	15.0000		10.0000
Arsenic	ug/L	MW19A	07/21/2017	ND	15.0000		10.0000
Arsenic	ug/L	MW20A	07/21/2017	ND	15.0000		10.0000
Arsenic	ug/L	MW22TR	07/24/2017	ND	15.0000		10.0000
Arsenic	ug/L	MW23ATR	07/24/2017	ND	15.0000		10.0000
Arsenic	ug/L	MW24TR	07/24/2017	ND	15.0000		10.0000
Arsenic	ug/L	MW26ATR	07/24/2017	ND	15.0000		10.0000
Arsenic	ug/L	MW27BTR	07/24/2017	ND	15.0000		10.0000
Arsenic	ug/L	MW28A	07/24/2017	ND	15.0000		10.0000
Arsenic	ug/L	MW29	07/25/2017	ND	15.0000		10.0000
Arsenic	ug/L	MW30	07/25/2017	ND	15.0000		10.0000
Arsenic	ug/L	MW31TR	07/20/2017	ND	15.0000		10.0000
Arsenic	ug/L	MW33	07/20/2017	ND	15.0000		10.0000
Arsenic	ug/L	MW41T	07/18/2017	ND	15.0000		10.0000
Arsenic	ug/L	MW42TR	07/18/2017	ND	15.0000		10.0000
Arsenic	ug/L	MW43T	07/18/2017	ND	15.0000		10.0000
Arsenic	ug/L	MW45T	07/18/2017	ND	15.0000		10.0000
Arsenic	ug/L	MW48TR	07/20/2017	ND	15.0000		10.0000
Arsenic	ug/L	MW49T	07/20/2017	ND	15.0000		10.0000
Arsenic	ug/L	MW50T	07/24/2017	ND	15.0000		10.0000
Arsenic	ug/L	MW51T	07/24/2017	ND	15.0000		10.0000
Arsenic	ug/L	MW52T	07/25/2017	ND	15.0000		10.0000
Arsenic	ug/L	MW54T	07/25/2017	ND	15.0000		10.0000
Arsenic	ug/L	MW5A	07/21/2017	ND	15.0000		10.0000
Arsenic	ug/L	MW61T	07/26/2017	ND	15.0000		10.0000
Arsenic	ug/L	MW6TR	07/17/2017	ND	15.0000		10.0000
Arsenic	ug/L	MW71T	07/18/2017	ND	15.0000		10.0000
Arsenic	ug/L	MW73T	07/19/2017	ND	15.0000		10.0000
Arsenic	ug/L	MW80TR	07/26/2017	ND	15.0000		10.0000
Arsenic	ug/L	MW89T	07/21/2017	ND	15.0000		10.0000
Arsenic	ug/L	MW8TR	07/17/2017	ND	15.0000		10.0000
Arsenic	ug/L	MW9A	07/17/2017	ND	15.0000		10.0000
Arsenic	ug/L	PSDL21	07/18/2017	ND	15.0000		10.0000
Arsenic	ug/L	SL1	07/18/2017	ND	15.0000		10.0000
Arsenic	ug/L	SL2	07/18/2017	ND	15.0000		10.0000
Arsenic	ug/L	SL3	07/18/2017	ND	15.0000		10.0000
Barium	ug/L	MW101T	07/28/2017		50.0000		330.0000
Barium	ug/L	MW114T	07/26/2017		110.0000		330.0000
Barium	ug/L	MW115T	07/26/2017		150.0000		330.0000
Barium	ug/L	MW116T	07/26/2017		78.0000		330.0000

* - Current value failed - awaiting verification.
** - Current value passed - previous exceedance not verified.
*** - Current value failed - exceedance verified.
**** - Current value passed - awaiting one more verification.
***** - Insufficient background data to compute prediction limit.
ND = Not Detected, result = detection limit.

Table 2

Most Current Downgradient Monitoring Data

Constituent	Units	Well	Date		Result		Pred. Limit
Barium	ug/L	MW117T	07/26/2017		100.0000		330.0000
Barium	ug/L	MW127T	07/21/2017	ND	25.0000		330.0000
Barium	ug/L	MW131T	07/20/2017		26.0000		330.0000
Barium	ug/L	MW132T	07/20/2017		82.0000		330.0000
Barium	ug/L	MW133T	07/20/2017		110.0000		330.0000
Barium	ug/L	MW134T	07/20/2017		160.0000		330.0000
Barium	ug/L	MW142T	07/20/2017		59.0000		330.0000
Barium	ug/L	MW143T	07/21/2017		81.0000		330.0000
Barium	ug/L	MW144T	07/27/2017		210.0000		330.0000
Barium	ug/L	MW16TR	07/20/2017		33.0000		330.0000
Barium	ug/L	MW19A	07/21/2017		77.0000		330.0000
Barium	ug/L	MW20A	07/21/2017		26.0000		330.0000
Barium	ug/L	MW22TR	07/24/2017		45.0000		330.0000
Barium	ug/L	MW23ATR	07/24/2017		33.0000		330.0000
Barium	ug/L	MW24TR	07/24/2017	ND	25.0000		330.0000
Barium	ug/L	MW26ATR	07/24/2017		34.0000		330.0000
Barium	ug/L	MW27BTR	07/24/2017	ND	25.0000		330.0000
Barium	ug/L	MW28A	07/24/2017	ND	25.0000		330.0000
Barium	ug/L	MW29	07/25/2017	ND	25.0000		330.0000
Barium	ug/L	MW30	07/25/2017	ND	25.0000		330.0000
Barium	ug/L	MW31TR	07/20/2017		94.0000		330.0000
Barium	ug/L	MW33	07/20/2017		90.0000		330.0000
Barium	ug/L	MW41T	07/18/2017		70.0000		330.0000
Barium	ug/L	MW42TR	07/18/2017		59.0000		330.0000
Barium	ug/L	MW43T	07/18/2017		61.0000		330.0000
Barium	ug/L	MW45T	07/18/2017		45.0000		330.0000
Barium	ug/L	MW48TR	07/20/2017		100.0000		330.0000
Barium	ug/L	MW49T	07/20/2017		64.0000		330.0000
Barium	ug/L	MW50T	07/24/2017		63.0000		330.0000
Barium	ug/L	MW51T	07/24/2017		62.0000		330.0000
Barium	ug/L	MW52T	07/25/2017		28.0000		330.0000
Barium	ug/L	MW54T	07/25/2017	ND	25.0000		330.0000
Barium	ug/L	MW5A	07/21/2017		69.0000		330.0000
Barium	ug/L	MW61T	07/26/2017		26.0000		330.0000
Barium	ug/L	MW6TR	07/17/2017		54.0000		330.0000
Barium	ug/L	MW71T	07/18/2017		110.0000		330.0000
Barium	ug/L	MW73T	07/19/2017		160.0000		330.0000
Barium	ug/L	MW80TR	07/26/2017		88.0000		330.0000
Barium	ug/L	MW89T	07/21/2017		140.0000		330.0000
Barium	ug/L	MW8TR	07/17/2017		60.0000		330.0000
Barium	ug/L	MW9A	07/17/2017		130.0000		330.0000
Barium	ug/L	PSDL21	07/18/2017		100.0000		330.0000
Barium	ug/L	SL1	07/18/2017		25.0000		330.0000
Barium	ug/L	SL2	07/18/2017		25.0000		330.0000
Barium	ug/L	SL3	07/18/2017		100.0000		330.0000
Cadmium	ug/L	MW101T	07/28/2017	ND	5.0000		5.0000
Cadmium	ug/L	MW114T	07/26/2017	ND	5.0000		5.0000
Cadmium	ug/L	MW115T	07/26/2017	ND	5.0000		5.0000
Cadmium	ug/L	MW116T	07/26/2017	ND	5.0000		5.0000
Cadmium	ug/L	MW117T	07/26/2017	ND	5.0000		5.0000
Cadmium	ug/L	MW127T	07/21/2017	ND	5.0000		5.0000
Cadmium	ug/L	MW131T	07/20/2017	ND	5.0000		5.0000
Cadmium	ug/L	MW132T	07/20/2017	ND	5.0000		5.0000

* - Current value failed - awaiting verification.
** - Current value passed - previous exceedance not verified.
*** - Current value failed - exceedance verified.
**** - Current value passed - awaiting one more verification.
***** - Insufficient background data to compute prediction limit.
ND = Not Detected, result = detection limit.

Table 2

Most Current Downgradient Monitoring Data

Constituent	Units	Well	Date		Result		Pred. Limit
Cadmium	ug/L	MW133T	07/20/2017	ND	5.0000		5.0000
Cadmium	ug/L	MW134T	07/20/2017	ND	5.0000		5.0000
Cadmium	ug/L	MW142T	07/20/2017	ND	5.0000		5.0000
Cadmium	ug/L	MW143T	07/21/2017	ND	5.0000		5.0000
Cadmium	ug/L	MW144T	07/27/2017	ND	5.0000		5.0000
Cadmium	ug/L	MW16TR	07/20/2017	ND	5.0000		5.0000
Cadmium	ug/L	MW19A	07/21/2017	ND	5.0000		5.0000
Cadmium	ug/L	MW20A	07/21/2017	ND	5.0000		5.0000
Cadmium	ug/L	MW22TR	07/24/2017	ND	5.0000		5.0000
Cadmium	ug/L	MW23ATR	07/24/2017	ND	5.0000		5.0000
Cadmium	ug/L	MW24TR	07/24/2017	ND	5.0000		5.0000
Cadmium	ug/L	MW26ATR	07/24/2017	ND	5.0000		5.0000
Cadmium	ug/L	MW27BTR	07/24/2017	ND	5.0000		5.0000
Cadmium	ug/L	MW28A	07/24/2017	ND	5.0000		5.0000
Cadmium	ug/L	MW29	07/25/2017	ND	5.0000		5.0000
Cadmium	ug/L	MW30	07/25/2017	ND	5.0000		5.0000
Cadmium	ug/L	MW31TR	07/20/2017	ND	5.0000		5.0000
Cadmium	ug/L	MW33	07/20/2017	ND	5.0000		5.0000
Cadmium	ug/L	MW41T	07/18/2017	ND	5.0000		5.0000
Cadmium	ug/L	MW42TR	07/18/2017	ND	5.0000		5.0000
Cadmium	ug/L	MW43T	07/18/2017	ND	5.0000		5.0000
Cadmium	ug/L	MW45T	07/18/2017	ND	5.0000		5.0000
Cadmium	ug/L	MW48TR	07/20/2017	ND	5.0000		5.0000
Cadmium	ug/L	MW49T	07/20/2017	ND	5.0000		5.0000
Cadmium	ug/L	MW50T	07/24/2017	ND	5.0000		5.0000
Cadmium	ug/L	MW51T	07/24/2017	ND	5.0000		5.0000
Cadmium	ug/L	MW52T	07/25/2017	ND	5.0000		5.0000
Cadmium	ug/L	MW54T	07/25/2017	ND	5.0000		5.0000
Cadmium	ug/L	MW5A	07/21/2017	ND	5.0000		5.0000
Cadmium	ug/L	MW61T	07/26/2017	ND	5.0000		5.0000
Cadmium	ug/L	MW6TR	07/17/2017	ND	5.0000		5.0000
Cadmium	ug/L	MW71T	07/18/2017	ND	5.0000		5.0000
Cadmium	ug/L	MW73T	07/19/2017	ND	5.0000		5.0000
Cadmium	ug/L	MW80TR	07/26/2017	ND	5.0000		5.0000
Cadmium	ug/L	MW89T	07/21/2017	ND	5.0000		5.0000
Cadmium	ug/L	MW8TR	07/17/2017	ND	5.0000		5.0000
Cadmium	ug/L	MW9A	07/17/2017	ND	5.0000		5.0000
Cadmium	ug/L	PSDL21	07/18/2017	ND	5.0000		5.0000
Cadmium	ug/L	SL1	07/18/2017	ND	5.0000		5.0000
Cadmium	ug/L	SL2	07/18/2017	ND	5.0000		5.0000
Cadmium	ug/L	SL3	07/18/2017	ND	5.0000		5.0000
Chromium	ug/L	MW101T	07/28/2017	ND	10.0000		33.0000
Chromium	ug/L	MW114T	07/26/2017	ND	10.0000		33.0000
Chromium	ug/L	MW115T	07/26/2017	ND	10.0000		33.0000
Chromium	ug/L	MW116T	07/26/2017	ND	10.0000		33.0000
Chromium	ug/L	MW117T	07/26/2017	ND	10.0000		33.0000
Chromium	ug/L	MW127T	07/21/2017	ND	10.0000		33.0000
Chromium	ug/L	MW131T	07/20/2017	ND	10.0000		33.0000
Chromium	ug/L	MW132T	07/20/2017	ND	10.0000		33.0000
Chromium	ug/L	MW133T	07/20/2017		10.0000		33.0000
Chromium	ug/L	MW134T	07/20/2017	ND	10.0000		33.0000
Chromium	ug/L	MW142T	07/20/2017	ND	10.0000		33.0000
Chromium	ug/L	MW143T	07/21/2017	ND	10.0000		33.0000

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Table 2

Most Current Downgradient Monitoring Data

Constituent	Units	Well	Date		Result		Pred. Limit
Chromium	ug/L	MW144T	07/27/2017	ND	10.0000		33.0000
Chromium	ug/L	MW16TR	07/20/2017	ND	10.0000		33.0000
Chromium	ug/L	MW19A	07/21/2017	ND	10.0000		33.0000
Chromium	ug/L	MW20A	07/21/2017	ND	10.0000		33.0000
Chromium	ug/L	MW22TR	07/24/2017	ND	10.0000		33.0000
Chromium	ug/L	MW23ATR	07/24/2017	ND	10.0000		33.0000
Chromium	ug/L	MW24TR	07/24/2017	ND	10.0000		33.0000
Chromium	ug/L	MW26ATR	07/24/2017		24.0000		33.0000
Chromium	ug/L	MW27BTR	07/24/2017	ND	10.0000		33.0000
Chromium	ug/L	MW28A	07/24/2017		11.0000	**	33.0000
Chromium	ug/L	MW29	07/25/2017	ND	10.0000		33.0000
Chromium	ug/L	MW30	07/25/2017	ND	10.0000		33.0000
Chromium	ug/L	MW31TR	07/20/2017	ND	10.0000		33.0000
Chromium	ug/L	MW33	07/20/2017	ND	10.0000		33.0000
Chromium	ug/L	MW41T	07/18/2017	ND	10.0000		33.0000
Chromium	ug/L	MW42TR	07/18/2017	ND	10.0000		33.0000
Chromium	ug/L	MW43T	07/18/2017	ND	10.0000		33.0000
Chromium	ug/L	MW45T	07/18/2017	ND	10.0000		33.0000
Chromium	ug/L	MW48TR	07/20/2017	ND	10.0000		33.0000
Chromium	ug/L	MW49T	07/20/2017	ND	10.0000		33.0000
Chromium	ug/L	MW50T	07/24/2017	ND	10.0000		33.0000
Chromium	ug/L	MW51T	07/24/2017	ND	10.0000		33.0000
Chromium	ug/L	MW52T	07/25/2017	ND	10.0000		33.0000
Chromium	ug/L	MW54T	07/25/2017	ND	10.0000		33.0000
Chromium	ug/L	MW5A	07/21/2017	ND	10.0000		33.0000
Chromium	ug/L	MW61T	07/26/2017	ND	10.0000		33.0000
Chromium	ug/L	MW6TR	07/17/2017	ND	10.0000		33.0000
Chromium	ug/L	MW71T	07/18/2017	ND	10.0000		33.0000
Chromium	ug/L	MW73T	07/19/2017	ND	10.0000		33.0000
Chromium	ug/L	MW80TR	07/26/2017	ND	10.0000		33.0000
Chromium	ug/L	MW89T	07/21/2017	ND	10.0000		33.0000
Chromium	ug/L	MW8TR	07/17/2017	ND	10.0000		33.0000
Chromium	ug/L	MW9A	07/17/2017	ND	10.0000		33.0000
Chromium	ug/L	PSDL21	07/18/2017	ND	10.0000		33.0000
Chromium	ug/L	SL1	07/18/2017	ND	10.0000		33.0000
Chromium	ug/L	SL2	07/18/2017	ND	10.0000		33.0000
Chromium	ug/L	SL3	07/18/2017	ND	10.0000		33.0000
Conductivity	umho	MW101T	07/28/2017		100.0000		393.4502
Conductivity	umho	MW114T	07/26/2017		120.0000		393.4502
Conductivity	umho	MW115T	07/26/2017		130.0000		393.4502
Conductivity	umho	MW116T	07/26/2017		110.0000		393.4502
Conductivity	umho	MW117T	07/26/2017		120.0000		393.4502
Conductivity	umho	MW127T	07/21/2017		140.0000		393.4502
Conductivity	umho	MW131T	07/20/2017		120.0000		393.4502
Conductivity	umho	MW132T	07/20/2017		130.0000		393.4502
Conductivity	umho	MW133T	07/20/2017		130.0000		393.4502
Conductivity	umho	MW134T	07/20/2017		170.0000		393.4502
Conductivity	umho	MW142T	07/20/2017		120.0000		393.4502
Conductivity	umho	MW143T	07/21/2017		120.0000		393.4502
Conductivity	umho	MW144T	07/27/2017		110.0000		393.4502
Conductivity	umho	MW16TR	07/20/2017		170.0000		393.4502
Conductivity	umho	MW19A	07/21/2017		140.0000		393.4502
Conductivity	umho	MW20A	07/21/2017		180.0000		393.4502

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Table 2

Most Current Downgradient Monitoring Data

Constituent	Units	Well	Date		Result		Pred. Limit
Conductivity	umho	MW22TR	07/24/2017		140.0000		393.4502
Conductivity	umho	MW23ATR	07/24/2017		160.0000		393.4502
Conductivity	umho	MW24TR	07/24/2017		150.0000		393.4502
Conductivity	umho	MW26ATR	07/24/2017		190.0000	**	393.4502
Conductivity	umho	MW27BTR	07/24/2017		160.0000		393.4502
Conductivity	umho	MW28A	07/24/2017		140.0000		393.4502
Conductivity	umho	MW29	07/25/2017		200.0000	**	393.4502
Conductivity	umho	MW30	07/25/2017		190.0000		393.4502
Conductivity	umho	MW31TR	07/20/2017		110.0000		393.4502
Conductivity	umho	MW33	07/20/2017		140.0000		393.4502
Conductivity	umho	MW41T	07/18/2017		110.0000		393.4502
Conductivity	umho	MW42TR	07/18/2017		120.0000		393.4502
Conductivity	umho	MW43T	07/18/2017		170.0000		393.4502
Conductivity	umho	MW45T	07/18/2017		170.0000		393.4502
Conductivity	umho	MW48TR	07/20/2017		130.0000		393.4502
Conductivity	umho	MW49T	07/20/2017		110.0000		393.4502
Conductivity	umho	MW50T	07/24/2017		110.0000		393.4502
Conductivity	umho	MW51T	07/24/2017		120.0000		393.4502
Conductivity	umho	MW52T	07/25/2017		160.0000		393.4502
Conductivity	umho	MW54T	07/25/2017		160.0000		393.4502
Conductivity	umho	MW5A	07/21/2017		150.0000		393.4502
Conductivity	umho	MW61T	07/26/2017		190.0000	**	393.4502
Conductivity	umho	MW6TR	07/17/2017		110.0000		393.4502
Conductivity	umho	MW71T	07/18/2017		110.0000		393.4502
Conductivity	umho	MW73T	07/19/2017		140.0000		393.4502
Conductivity	umho	MW80TR	07/26/2017		110.0000		393.4502
Conductivity	umho	MW89T	07/21/2017		100.0000		393.4502
Conductivity	umho	MW8TR	07/17/2017		120.0000		393.4502
Conductivity	umho	MW9A	07/17/2017		140.0000		393.4502
Conductivity	umho	PSDL21	07/18/2017		120.0000		393.4502
Conductivity	umho	SL1	07/18/2017		170.0000		393.4502
Conductivity	umho	SL2	07/18/2017		180.0000		393.4502
Conductivity	umho	SL3	07/18/2017		140.0000		393.4502
Lead	ug/L	MW101T	07/28/2017	ND	10.0000		25.0000
Lead	ug/L	MW114T	07/26/2017	ND	10.0000		25.0000
Lead	ug/L	MW115T	07/26/2017	ND	10.0000		25.0000
Lead	ug/L	MW116T	07/26/2017	ND	10.0000		25.0000
Lead	ug/L	MW117T	07/26/2017	ND	10.0000		25.0000
Lead	ug/L	MW127T	07/21/2017	ND	10.0000		25.0000
Lead	ug/L	MW131T	07/20/2017	ND	10.0000		25.0000
Lead	ug/L	MW132T	07/20/2017	ND	10.0000		25.0000
Lead	ug/L	MW133T	07/20/2017	ND	10.0000		25.0000
Lead	ug/L	MW134T	07/20/2017	ND	10.0000		25.0000
Lead	ug/L	MW142T	07/20/2017	ND	10.0000		25.0000
Lead	ug/L	MW143T	07/21/2017	ND	10.0000		25.0000
Lead	ug/L	MW144T	07/27/2017	ND	10.0000		25.0000
Lead	ug/L	MW16TR	07/20/2017	ND	10.0000		25.0000
Lead	ug/L	MW19A	07/21/2017	ND	10.0000		25.0000
Lead	ug/L	MW20A	07/21/2017	ND	10.0000		25.0000
Lead	ug/L	MW22TR	07/24/2017	ND	10.0000		25.0000
Lead	ug/L	MW23ATR	07/24/2017	ND	10.0000		25.0000
Lead	ug/L	MW24TR	07/24/2017	ND	10.0000		25.0000
Lead	ug/L	MW26ATR	07/24/2017	ND	10.0000		25.0000

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Table 2

Most Current Downgradient Monitoring Data

Constituent	Units	Well	Date		Result		Pred. Limit
Lead	ug/L	MW27BTR	07/24/2017	ND	10.0000		25.0000
Lead	ug/L	MW28A	07/24/2017	ND	10.0000		25.0000
Lead	ug/L	MW29	07/25/2017	ND	10.0000		25.0000
Lead	ug/L	MW30	07/25/2017	ND	10.0000		25.0000
Lead	ug/L	MW31TR	07/20/2017	ND	10.0000		25.0000
Lead	ug/L	MW33	07/20/2017	ND	10.0000		25.0000
Lead	ug/L	MW41T	07/18/2017	ND	10.0000		25.0000
Lead	ug/L	MW42TR	07/18/2017	ND	10.0000		25.0000
Lead	ug/L	MW43T	07/18/2017	ND	10.0000		25.0000
Lead	ug/L	MW45T	07/18/2017	ND	10.0000		25.0000
Lead	ug/L	MW48TR	07/20/2017	ND	10.0000		25.0000
Lead	ug/L	MW49T	07/20/2017	ND	10.0000		25.0000
Lead	ug/L	MW50T	07/24/2017	ND	10.0000		25.0000
Lead	ug/L	MW51T	07/24/2017	ND	10.0000		25.0000
Lead	ug/L	MW52T	07/25/2017	ND	10.0000		25.0000
Lead	ug/L	MW54T	07/25/2017	ND	10.0000		25.0000
Lead	ug/L	MW5A	07/21/2017	ND	10.0000		25.0000
Lead	ug/L	MW61T	07/26/2017	ND	10.0000		25.0000
Lead	ug/L	MW6TR	07/17/2017	ND	10.0000		25.0000
Lead	ug/L	MW71T	07/18/2017	ND	10.0000		25.0000
Lead	ug/L	MW73T	07/19/2017	ND	10.0000		25.0000
Lead	ug/L	MW80TR	07/26/2017	ND	10.0000		25.0000
Lead	ug/L	MW89T	07/21/2017	ND	10.0000		25.0000
Lead	ug/L	MW8TR	07/17/2017	ND	10.0000		25.0000
Lead	ug/L	MW9A	07/17/2017	ND	10.0000		25.0000
Lead	ug/L	PSDL21	07/18/2017	ND	10.0000		25.0000
Lead	ug/L	SL1	07/18/2017	ND	10.0000		25.0000
Lead	ug/L	SL2	07/18/2017	ND	10.0000		25.0000
Lead	ug/L	SL3	07/18/2017	ND	10.0000		25.0000
Mercury	ug/L	MW101T	07/28/2017	ND	0.2000		0.2590
Mercury	ug/L	MW114T	07/26/2017	ND	0.2000		0.2590
Mercury	ug/L	MW115T	07/26/2017	ND	0.2000		0.2590
Mercury	ug/L	MW116T	07/26/2017	ND	0.2000		0.2590
Mercury	ug/L	MW117T	07/26/2017	ND	0.2000		0.2590
Mercury	ug/L	MW127T	07/21/2017	ND	0.2000		0.2590
Mercury	ug/L	MW131T	07/20/2017	ND	0.2000		0.2590
Mercury	ug/L	MW132T	07/20/2017	ND	0.2000		0.2590
Mercury	ug/L	MW133T	07/20/2017	ND	0.2000		0.2590
Mercury	ug/L	MW134T	07/20/2017	ND	0.2000		0.2590
Mercury	ug/L	MW142T	07/20/2017	ND	0.2000		0.2590
Mercury	ug/L	MW143T	07/21/2017	ND	0.2000		0.2590
Mercury	ug/L	MW144T	07/27/2017	ND	0.2000		0.2590
Mercury	ug/L	MW16TR	07/20/2017	ND	0.2000		0.2590
Mercury	ug/L	MW19A	07/21/2017	ND	0.2000		0.2590
Mercury	ug/L	MW20A	07/21/2017	ND	0.2000		0.2590
Mercury	ug/L	MW22TR	07/24/2017	ND	0.2000		0.2590
Mercury	ug/L	MW23ATR	07/24/2017	ND	0.2000		0.2590
Mercury	ug/L	MW24TR	07/24/2017	ND	0.2000		0.2590
Mercury	ug/L	MW26ATR	07/24/2017	ND	0.2000		0.2590
Mercury	ug/L	MW27BTR	07/24/2017	ND	0.2000		0.2590
Mercury	ug/L	MW28A	07/24/2017	ND	0.2000		0.2590
Mercury	ug/L	MW29	07/25/2017	ND	0.2000		0.2590
Mercury	ug/L	MW30	07/25/2017	ND	0.2000		0.2590

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Table 2

Most Current Downgradient Monitoring Data

Constituent	Units	Well	Date		Result		Pred. Limit
Mercury	ug/L	MW31TR	07/20/2017	ND	0.2000		0.2590
Mercury	ug/L	MW33	07/20/2017	ND	0.2000		0.2590
Mercury	ug/L	MW41T	07/18/2017	ND	0.2000		0.2590
Mercury	ug/L	MW42TR	07/18/2017	ND	0.2000		0.2590
Mercury	ug/L	MW43T	07/18/2017	ND	0.2000		0.2590
Mercury	ug/L	MW45T	07/18/2017	ND	0.2000		0.2590
Mercury	ug/L	MW48TR	07/20/2017	ND	0.2000		0.2590
Mercury	ug/L	MW49T	07/20/2017	ND	0.2000		0.2590
Mercury	ug/L	MW50T	07/24/2017	ND	0.2000		0.2590
Mercury	ug/L	MW51T	07/24/2017	ND	0.2000		0.2590
Mercury	ug/L	MW52T	07/25/2017	ND	0.2000		0.2590
Mercury	ug/L	MW54T	07/25/2017	ND	0.2000		0.2590
Mercury	ug/L	MW5A	07/21/2017	ND	0.2000		0.2590
Mercury	ug/L	MW61T	07/26/2017	ND	0.2000		0.2590
Mercury	ug/L	MW6TR	07/17/2017	ND	0.2000		0.2590
Mercury	ug/L	MW71T	07/18/2017	ND	0.2000		0.2590
Mercury	ug/L	MW73T	07/19/2017	ND	0.2000		0.2590
Mercury	ug/L	MW80TR	07/26/2017	ND	0.2000		0.2590
Mercury	ug/L	MW89T	07/21/2017	ND	0.2000		0.2590
Mercury	ug/L	MW8TR	07/17/2017	ND	0.2000		0.2590
Mercury	ug/L	MW9A	07/17/2017	ND	0.2000		0.2590
Mercury	ug/L	PSDL21	07/18/2017	ND	0.2000		0.2590
Mercury	ug/L	SL1	07/18/2017	ND	0.2000		0.2590
Mercury	ug/L	SL2	07/18/2017	ND	0.2000		0.2590
Mercury	ug/L	SL3	07/18/2017	ND	0.2000		0.2590
Nickel	ug/L	MW101T	07/28/2017	ND	40.0000		50.0000
Nickel	ug/L	MW114T	07/26/2017	ND	40.0000		50.0000
Nickel	ug/L	MW115T	07/26/2017	ND	40.0000		50.0000
Nickel	ug/L	MW116T	07/26/2017	ND	40.0000		50.0000
Nickel	ug/L	MW117T	07/26/2017	ND	40.0000		50.0000
Nickel	ug/L	MW127T	07/21/2017	ND	40.0000		50.0000
Nickel	ug/L	MW131T	07/20/2017	ND	40.0000		50.0000
Nickel	ug/L	MW132T	07/20/2017	ND	40.0000		50.0000
Nickel	ug/L	MW133T	07/20/2017	ND	40.0000		50.0000
Nickel	ug/L	MW134T	07/20/2017	ND	40.0000		50.0000
Nickel	ug/L	MW142T	07/20/2017	ND	40.0000		50.0000
Nickel	ug/L	MW143T	07/21/2017	ND	40.0000		50.0000
Nickel	ug/L	MW144T	07/27/2017	ND	40.0000		50.0000
Nickel	ug/L	MW16TR	07/20/2017	ND	40.0000		50.0000
Nickel	ug/L	MW19A	07/21/2017	ND	40.0000		50.0000
Nickel	ug/L	MW20A	07/21/2017	ND	40.0000		50.0000
Nickel	ug/L	MW22TR	07/24/2017	ND	40.0000		50.0000
Nickel	ug/L	MW23ATR	07/24/2017	ND	40.0000		50.0000
Nickel	ug/L	MW24TR	07/24/2017	ND	40.0000		50.0000
Nickel	ug/L	MW26ATR	07/24/2017	ND	40.0000		50.0000
Nickel	ug/L	MW27BTR	07/24/2017	ND	40.0000		50.0000
Nickel	ug/L	MW28A	07/24/2017	ND	40.0000		50.0000
Nickel	ug/L	MW29	07/25/2017	ND	40.0000		50.0000
Nickel	ug/L	MW30	07/25/2017	ND	40.0000		50.0000
Nickel	ug/L	MW31TR	07/20/2017	ND	40.0000		50.0000
Nickel	ug/L	MW33	07/20/2017	ND	40.0000		50.0000
Nickel	ug/L	MW41T	07/18/2017	ND	40.0000		50.0000
Nickel	ug/L	MW42TR	07/18/2017	ND	40.0000		50.0000

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Table 2

Most Current Downgradient Monitoring Data

Constituent	Units	Well	Date		Result		Pred. Limit
Nickel	ug/L	MW43T	07/18/2017	ND	40.0000		50.0000
Nickel	ug/L	MW45T	07/18/2017	ND	40.0000		50.0000
Nickel	ug/L	MW48TR	07/20/2017	ND	40.0000		50.0000
Nickel	ug/L	MW49T	07/20/2017	ND	40.0000		50.0000
Nickel	ug/L	MW50T	07/24/2017	ND	40.0000		50.0000
Nickel	ug/L	MW51T	07/24/2017	ND	40.0000		50.0000
Nickel	ug/L	MW52T	07/25/2017	ND	40.0000		50.0000
Nickel	ug/L	MW54T	07/25/2017	ND	40.0000		50.0000
Nickel	ug/L	MW5A	07/21/2017	ND	40.0000		50.0000
Nickel	ug/L	MW61T	07/26/2017	ND	40.0000		50.0000
Nickel	ug/L	MW6TR	07/17/2017	ND	40.0000		50.0000
Nickel	ug/L	MW71T	07/18/2017	ND	40.0000		50.0000
Nickel	ug/L	MW73T	07/19/2017	ND	40.0000		50.0000
Nickel	ug/L	MW80TR	07/26/2017	ND	40.0000		50.0000
Nickel	ug/L	MW89T	07/21/2017	ND	40.0000		50.0000
Nickel	ug/L	MW8TR	07/17/2017	ND	40.0000		50.0000
Nickel	ug/L	MW9A	07/17/2017	ND	40.0000		50.0000
Nickel	ug/L	PSDL21	07/18/2017	ND	40.0000		50.0000
Nickel	ug/L	SL1	07/18/2017	ND	40.0000		50.0000
Nickel	ug/L	SL2	07/18/2017	ND	40.0000		50.0000
Nickel	ug/L	SL3	07/18/2017	ND	40.0000		50.0000
pH	SU	MW101T	07/28/2017		6.8700		5.94 - 9.30
pH	SU	MW114T	07/26/2017		6.7200		5.94 - 9.30
pH	SU	MW115T	07/26/2017		6.8300		5.94 - 9.30
pH	SU	MW116T	07/26/2017		7.1000		5.94 - 9.30
pH	SU	MW117T	07/26/2017		6.9700		5.94 - 9.30
pH	SU	MW127T	07/21/2017		6.1300		5.94 - 9.30
pH	SU	MW131T	07/20/2017		6.1800		5.94 - 9.30
pH	SU	MW132T	07/20/2017		6.1700		5.94 - 9.30
pH	SU	MW133T	07/20/2017		6.1400		5.94 - 9.30
pH	SU	MW134T	07/20/2017		6.7500		5.94 - 9.30
pH	SU	MW142T	07/20/2017		5.8500	*	5.94 - 9.30
pH	SU	MW143T	07/21/2017		6.0100		5.94 - 9.30
pH	SU	MW144T	07/27/2017		6.9700		5.94 - 9.30
pH	SU	MW16TR	07/20/2017		6.0500		5.94 - 9.30
pH	SU	MW19A	07/21/2017		6.5000		5.94 - 9.30
pH	SU	MW20A	07/21/2017		6.1300		5.94 - 9.30
pH	SU	MW22TR	07/24/2017		6.7200		5.94 - 9.30
pH	SU	MW23ATR	07/24/2017		6.2000		5.94 - 9.30
pH	SU	MW24TR	07/24/2017		5.9300	*	5.94 - 9.30
pH	SU	MW26ATR	07/24/2017		6.7300	**	5.94 - 9.30
pH	SU	MW27BTR	07/24/2017		6.1800		5.94 - 9.30
pH	SU	MW28A	07/24/2017		6.0900		5.94 - 9.30
pH	SU	MW29	07/25/2017		5.6000	*	5.94 - 9.30
pH	SU	MW30	07/25/2017		6.1900		5.94 - 9.30
pH	SU	MW31TR	07/20/2017		5.9200	*	5.94 - 9.30
pH	SU	MW33	07/20/2017		6.2300		5.94 - 9.30
pH	SU	MW41T	07/18/2017		6.2900		5.94 - 9.30
pH	SU	MW42TR	07/18/2017		6.1100		5.94 - 9.30
pH	SU	MW43T	07/18/2017		6.2600		5.94 - 9.30
pH	SU	MW45T	07/18/2017		6.5300		5.94 - 9.30
pH	SU	MW48TR	07/20/2017		6.2600		5.94 - 9.30
pH	SU	MW49T	07/20/2017		6.0400		5.94 - 9.30

* - Current value failed - awaiting verification.
** - Current value passed - previous exceedance not verified.
*** - Current value failed - exceedance verified.
**** - Current value passed - awaiting one more verification.
***** - Insufficient background data to compute prediction limit.
ND = Not Detected, result = detection limit.

Table 2

Most Current Downgradient Monitoring Data

Constituent	Units	Well	Date		Result		Pred. Limit
pH	SU	MW50T	07/24/2017		6.2100		5.94 - 9.30
pH	SU	MW51T	07/24/2017		6.3000		5.94 - 9.30
pH	SU	MW52T	07/25/2017		6.1300		5.94 - 9.30
pH	SU	MW54T	07/25/2017		5.2700	*	5.94 - 9.30
pH	SU	MW5A	07/21/2017		6.5600		5.94 - 9.30
pH	SU	MW61T	07/26/2017		6.4600		5.94 - 9.30
pH	SU	MW6TR	07/17/2017		6.4900		5.94 - 9.30
pH	SU	MW71T	07/18/2017		6.2600		5.94 - 9.30
pH	SU	MW73T	07/19/2017		6.8400		5.94 - 9.30
pH	SU	MW80TR	07/26/2017		7.0500	**	5.94 - 9.30
pH	SU	MW89T	07/21/2017		6.4300		5.94 - 9.30
pH	SU	MW8TR	07/17/2017		6.4700		5.94 - 9.30
pH	SU	MW9A	07/17/2017		6.3800		5.94 - 9.30
pH	SU	PSDL21	07/18/2017		5.9400		5.94 - 9.30
pH	SU	SL1	07/18/2017		6.0300		5.94 - 9.30
pH	SU	SL2	07/18/2017		6.4500		5.94 - 9.30
pH	SU	SL3	07/18/2017		6.4600		5.94 - 9.30
Zinc	ug/L	MW101T	07/28/2017	ND	20.0000		63.8000
Zinc	ug/L	MW114T	07/26/2017	ND	20.0000		63.8000
Zinc	ug/L	MW115T	07/26/2017	ND	20.0000		63.8000
Zinc	ug/L	MW116T	07/26/2017	ND	20.0000		63.8000
Zinc	ug/L	MW117T	07/26/2017	ND	20.0000		63.8000
Zinc	ug/L	MW127T	07/21/2017	ND	20.0000		63.8000
Zinc	ug/L	MW131T	07/20/2017	ND	20.0000		63.8000
Zinc	ug/L	MW132T	07/20/2017	ND	20.0000		63.8000
Zinc	ug/L	MW133T	07/20/2017	ND	20.0000		63.8000
Zinc	ug/L	MW134T	07/20/2017	ND	20.0000		63.8000
Zinc	ug/L	MW142T	07/20/2017	ND	20.0000		63.8000
Zinc	ug/L	MW143T	07/21/2017	ND	20.0000		63.8000
Zinc	ug/L	MW144T	07/27/2017	ND	20.0000		63.8000
Zinc	ug/L	MW16TR	07/20/2017	ND	20.0000		63.8000
Zinc	ug/L	MW19A	07/21/2017	ND	20.0000		63.8000
Zinc	ug/L	MW20A	07/21/2017	ND	20.0000		63.8000
Zinc	ug/L	MW22TR	07/24/2017	ND	20.0000		63.8000
Zinc	ug/L	MW23ATR	07/24/2017	ND	20.0000		63.8000
Zinc	ug/L	MW24TR	07/24/2017	ND	20.0000		63.8000
Zinc	ug/L	MW26ATR	07/24/2017	ND	20.0000		63.8000
Zinc	ug/L	MW27BTR	07/24/2017	ND	20.0000		63.8000
Zinc	ug/L	MW28A	07/24/2017	ND	20.0000		63.8000
Zinc	ug/L	MW29	07/25/2017		20.0000		63.8000
Zinc	ug/L	MW30	07/25/2017	ND	20.0000		63.8000
Zinc	ug/L	MW31TR	07/20/2017	ND	20.0000		63.8000
Zinc	ug/L	MW33	07/20/2017	ND	20.0000		63.8000
Zinc	ug/L	MW41T	07/18/2017	ND	20.0000		63.8000
Zinc	ug/L	MW42TR	07/18/2017	ND	20.0000		63.8000
Zinc	ug/L	MW43T	07/18/2017	ND	20.0000		63.8000
Zinc	ug/L	MW45T	07/18/2017	ND	20.0000		63.8000
Zinc	ug/L	MW48TR	07/20/2017	ND	20.0000		63.8000
Zinc	ug/L	MW49T	07/20/2017	ND	20.0000		63.8000
Zinc	ug/L	MW50T	07/24/2017	ND	20.0000		63.8000
Zinc	ug/L	MW51T	07/24/2017	ND	20.0000		63.8000
Zinc	ug/L	MW52T	07/25/2017	ND	20.0000		63.8000
Zinc	ug/L	MW54T	07/25/2017	ND	20.0000		63.8000

* - Current value failed - awaiting verification.
** - Current value passed - previous exceedance not verified.
*** - Current value failed - exceedance verified.
**** - Current value passed - awaiting one more verification.
***** - Insufficient background data to compute prediction limit.
ND = Not Detected, result = detection limit.

Table 2

Most Current Downgradient Monitoring Data

Constituent	Units	Well	Date		Result		Pred. Limit
Zinc	ug/L	MW5A	07/21/2017	ND	20.0000		63.8000
Zinc	ug/L	MW61T	07/26/2017	ND	20.0000		63.8000
Zinc	ug/L	MW6TR	07/17/2017	ND	20.0000		63.8000
Zinc	ug/L	MW71T	07/18/2017	ND	20.0000		63.8000
Zinc	ug/L	MW73T	07/19/2017		32.0000		63.8000
Zinc	ug/L	MW80TR	07/26/2017	ND	20.0000		63.8000
Zinc	ug/L	MW89T	07/21/2017	ND	20.0000		63.8000
Zinc	ug/L	MW8TR	07/17/2017	ND	20.0000		63.8000
Zinc	ug/L	MW9A	07/17/2017	ND	20.0000		63.8000
Zinc	ug/L	PSDL21	07/18/2017	ND	20.0000		63.8000
Zinc	ug/L	SL1	07/18/2017	ND	20.0000		63.8000
Zinc	ug/L	SL2	07/18/2017	ND	20.0000		63.8000
Zinc	ug/L	SL3	07/18/2017	ND	20.0000		63.8000

* - Current value failed - awaiting verification.
** - Current value passed - previous exceedance not verified.
*** - Current value failed - exceedance verified.
**** - Current value passed - awaiting one more verification.
***** - Insufficient background data to compute prediction limit.
ND = Not Detected, result = detection limit.

Table 3

Detection Frequencies in Upgradient and Downgradient Wells

Constituent	Detect	Upgradient N	Proportion	Detect	Downgradient N	Proportion
Arsenic	0	162	0.000	8	3773	0.002
Barium	154	161	0.957	1068	3775	0.283
Cadmium	0	162	0.000	2	3776	0.001
Chromium	1	162	0.006	67	3777	0.018
Conductivity	157	157	1.000	3777	3777	1.000
Lead	0	162	0.000	11	3775	0.003
Mercury	3	162	0.019	22	3775	0.006
Nickel	0	162	0.000	32	3775	0.008
pH	160	160	1.000	3766	3766	1.000
Zinc	5	162	0.031	328	3775	0.087

N = Total number of measurements in all wells.
Detect = Total number of detections in all wells.
Proportion = Detect/N.

Table 4

Shapiro Wilk Test of Normality for Multiple Groups

Constituent	N (Detects)	Detect Freq	G raw	G log	Critical Value	Limit Type
Arsenic	0	0.000				nonpar
Barium	154	0.957	3.359	4.164	2.326	nonpar
Cadmium	0	0.000				nonpar
Chromium	1	0.006				nonpar
Conductivity	157	1.000	0.685	3.153	2.326	normal
Lead	0	0.000				nonpar
Mercury	3	0.019	0.495	0.495	2.326	nonpar
Nickel	0	0.000				nonpar
pH	160	1.000	3.611	3.190	2.326	nonpar
Zinc	5	0.031	0.616	0.316	2.326	nonpar

Fit to distribution is confirmed if G < critical value.
If detection frequency is < 50% nonparametric or Poisson limit is used

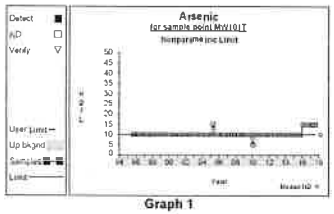
Table 5

Summary Statistics and Prediction Limits

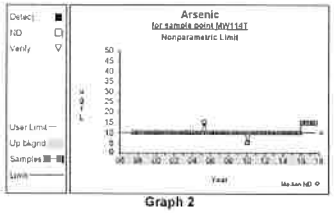
Constituent	Units	Model Type	N	Detect	Mean	SD	Pred Limit	Conf*
Arsenic	ug/L	nonpar	162	0			10.0000	0.99
Barium	ug/L	nonpar	161	154			330.0000	0.99
Cadmium	ug/L	nonpar	162	0			5.0000	0.99
Chromium	ug/L	nonpar	162	1			33.0000	0.99
Conductivity	umho	normal	157	157	243.6879	63.5135	393.4502	
Lead	ug/L	nonpar	162	0			25.0000	0.99
Mercury	ug/L	nonpar	162	3			0.2590	0.99
Nickel	ug/L	nonpar	162	0			50.0000	0.99
pH	SU	nonpar	160	160			5.94- 9.30	0.99
Zinc	ug/L	nonpar	162	5			63.8000	0.99

* - Confidence level for passing initial test or one verification resample at all downgradient wells for a single constituent (nonparametric test only).
Model Type refers to type of prediction limit..
For lognormal limit, mean and sd in natural log units and prediction limit in original units.
All sample sizes and statistics are based on outlier free data.
For nonparametric limits, median reporting limits are substituted for extreme reporting limit values.

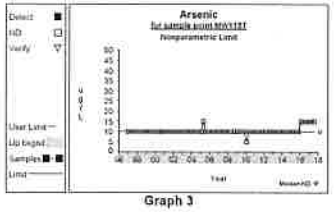
Up vs. Down Prediction Limits



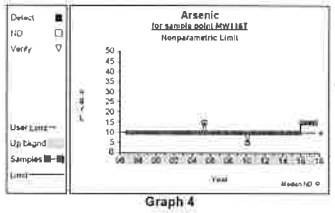
Graph 1



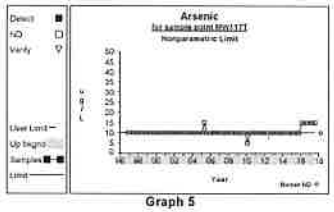
Graph 2



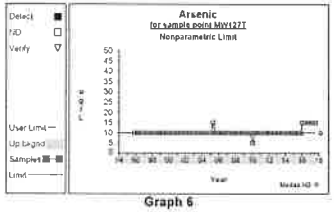
Graph 3



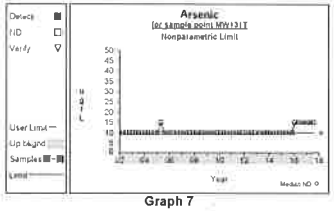
Graph 4



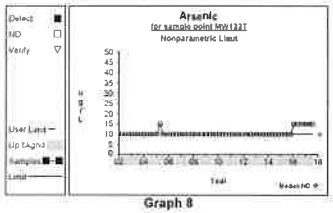
Graph 5



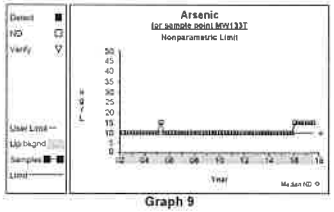
Graph 6



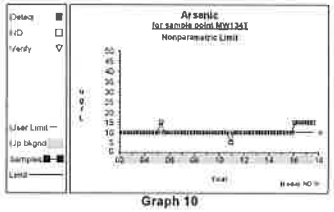
Graph 7



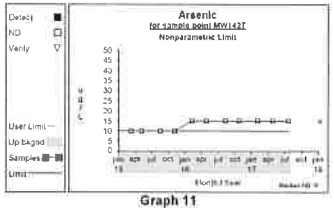
Graph 8



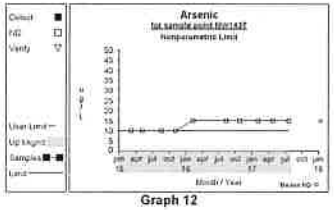
Graph 9



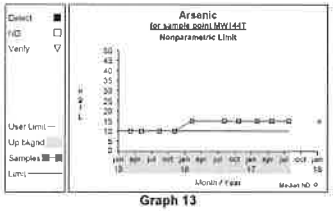
Graph 10



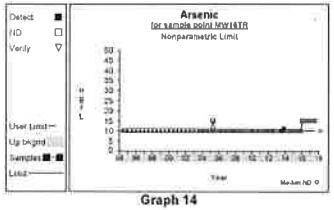
Graph 11



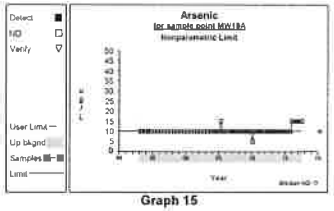
Graph 12



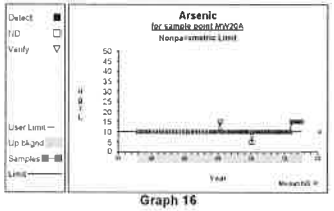
Graph 13



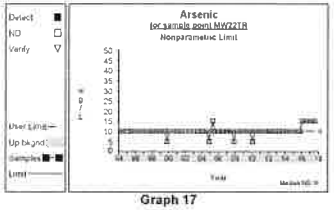
Graph 14



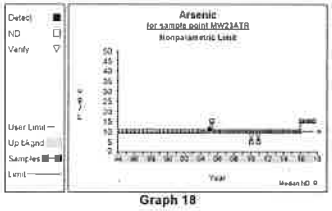
Graph 15



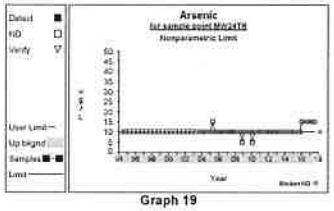
Graph 16



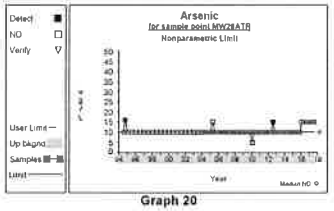
Graph 17



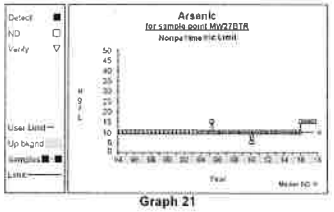
Graph 18



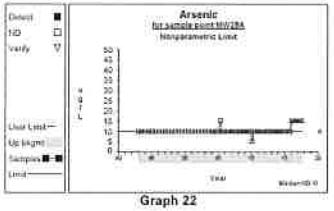
Graph 19



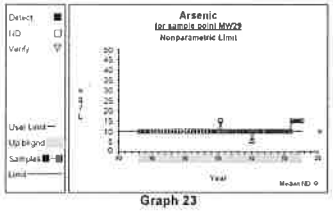
Graph 20



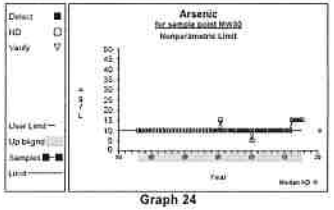
Graph 21



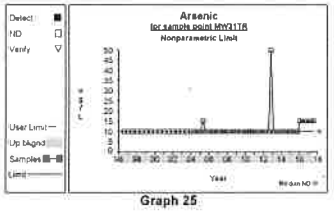
Graph 22



Graph 23

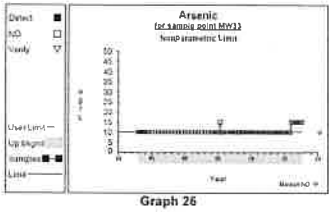


Graph 24

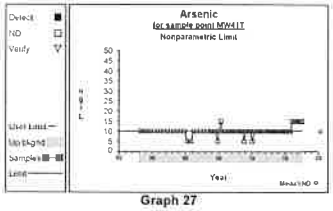


Graph 25

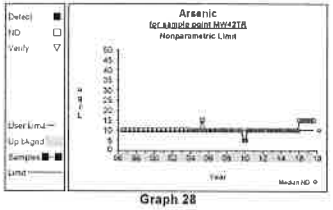
Up vs. Down Prediction Limits



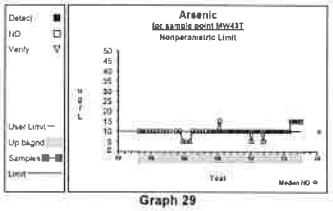
Graph 26



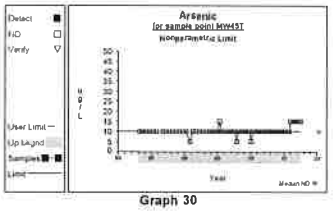
Graph 27



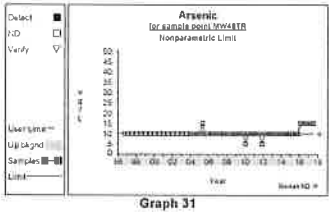
Graph 28



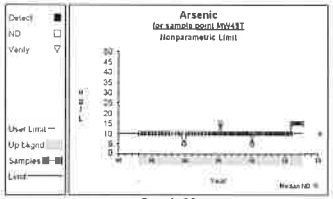
Graph 29



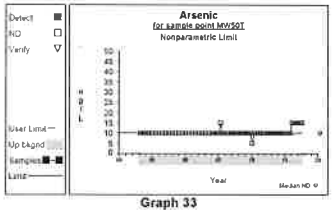
Graph 30



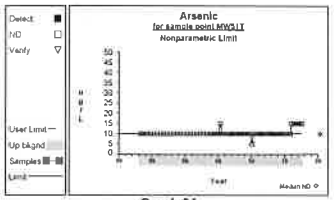
Graph 31



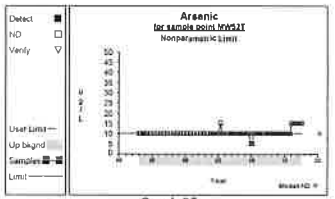
Graph 32



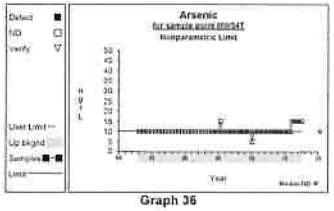
Graph 33



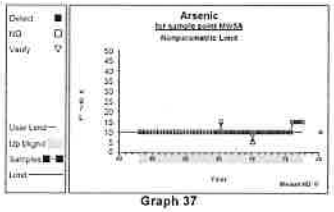
Graph 34



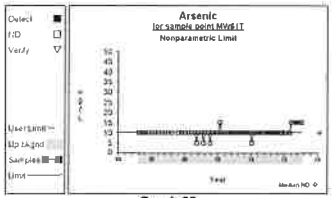
Graph 35



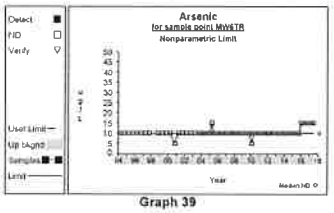
Graph 36



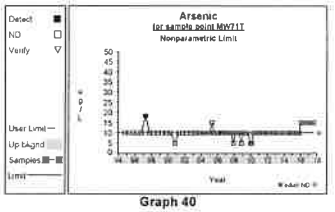
Graph 37



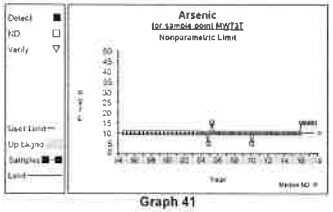
Graph 38



Graph 39



Graph 40



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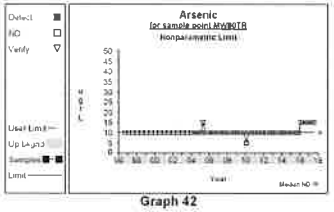
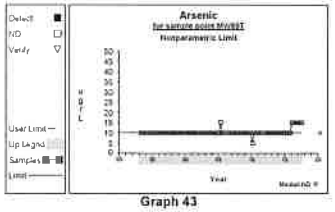
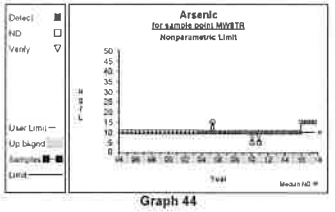


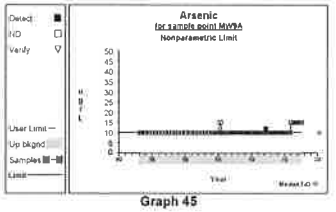
Graph 42



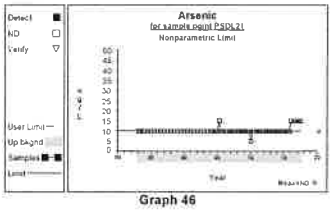
Graph 43



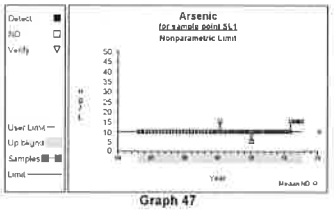
Graph 44



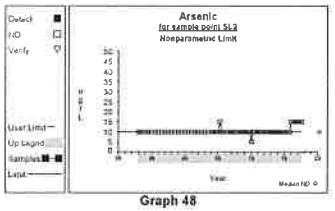
Graph 45



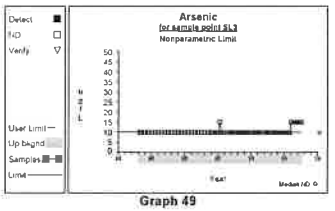
Graph 46



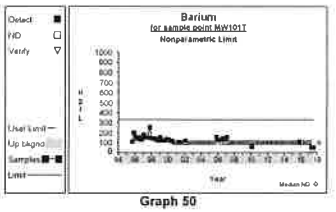
Graph 47



Graph 48

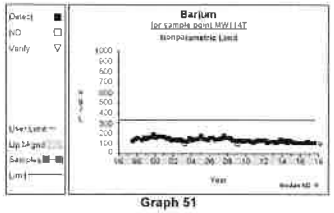


Graph 49

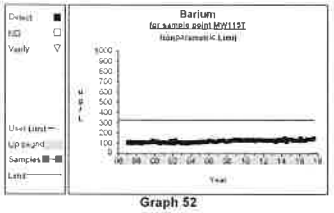


Graph 50

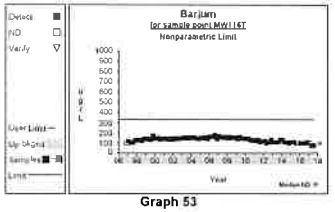
Up vs. Down Prediction Limits



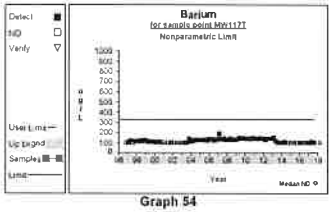
Graph 51



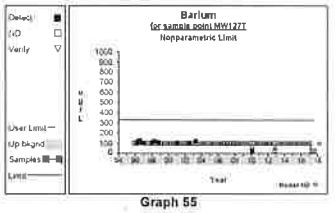
Graph 52



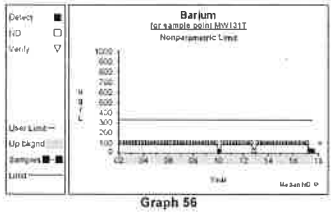
Graph 53



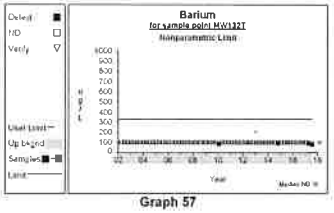
Graph 54



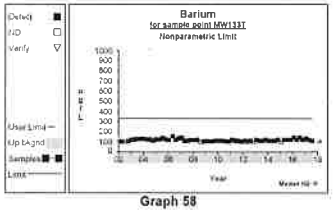
Graph 55



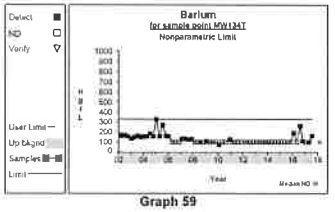
Graph 56



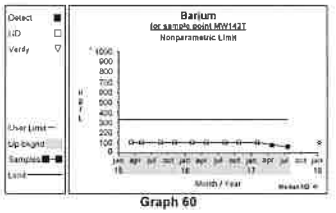
Graph 57



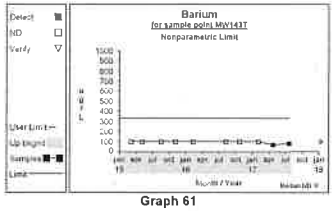
Graph 58



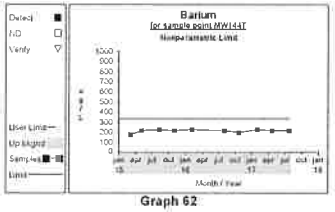
Graph 59



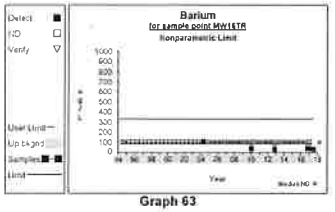
Graph 60



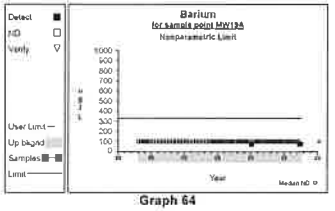
Graph 61



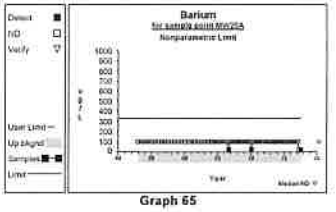
Graph 62



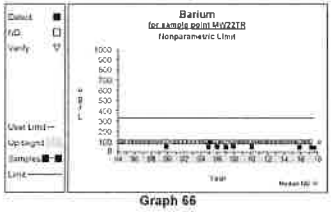
Graph 63



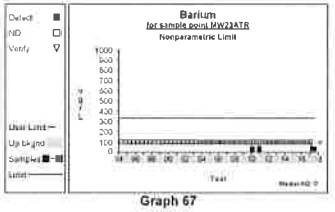
Graph 64



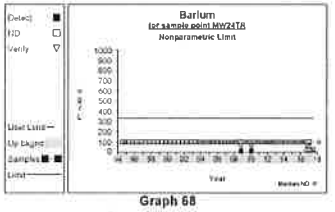
Graph 65



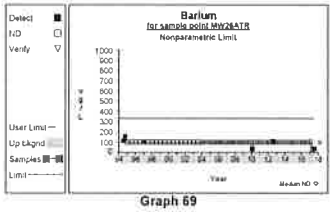
Graph 66



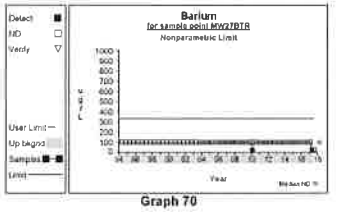
Graph 67



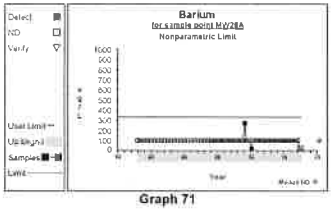
Graph 68



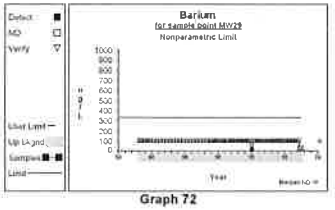
Graph 69



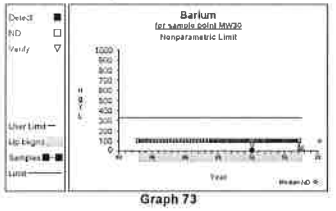
Graph 70



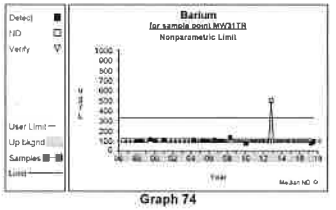
Graph 71



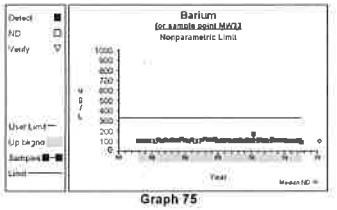
Graph 72



Graph 73

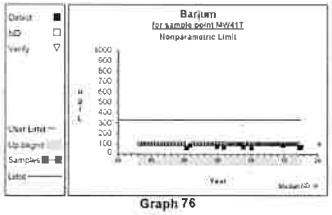


Graph 74

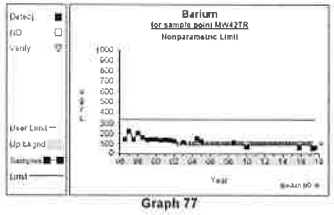


Graph 75

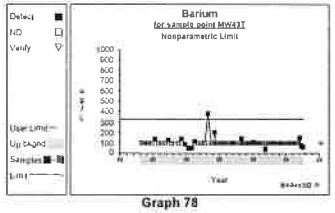
Up vs. Down Prediction Limits



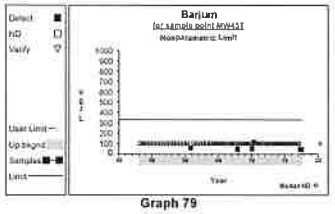
Graph 76



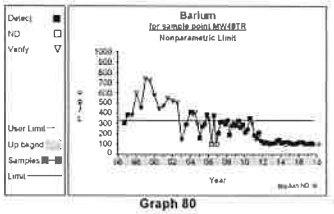
Graph 77



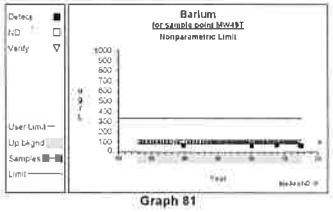
Graph 78



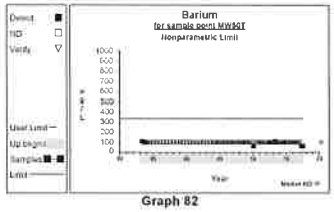
Graph 79



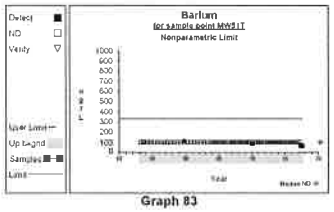
Graph 80



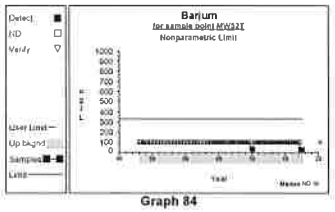
Graph 81



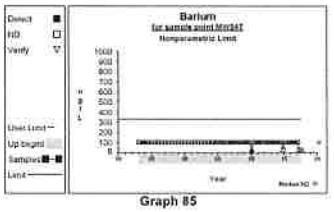
Graph 82



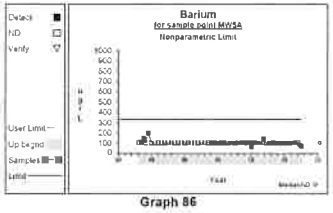
Graph 83



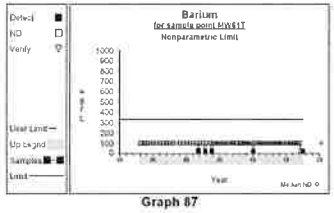
Graph 84



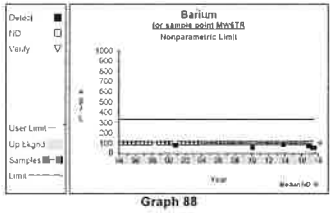
Graph 85



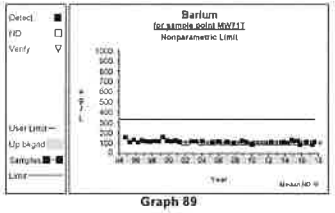
Graph 86



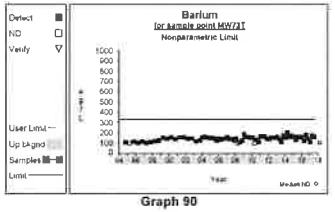
Graph 87



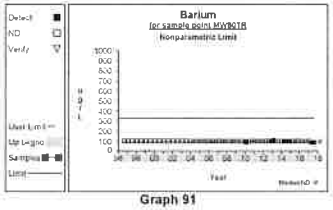
Graph 88



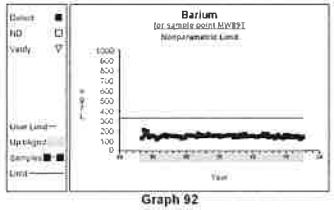
Graph 89



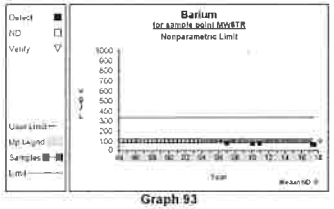
Graph 90



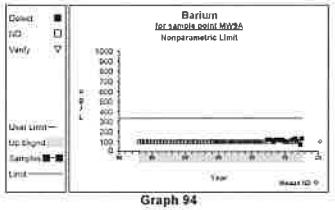
Graph 91



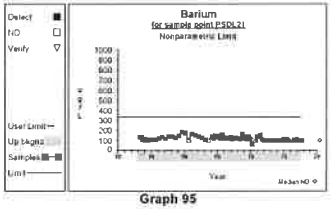
Graph 92



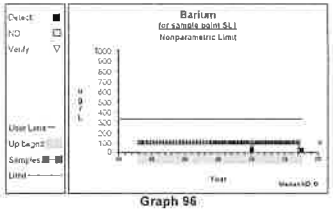
Graph 93



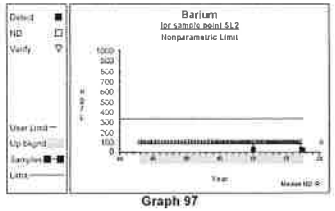
Graph 94



Graph 95



Graph 96



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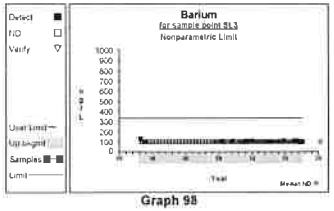
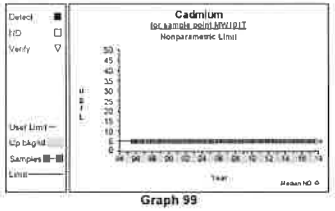
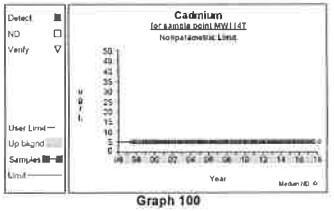


Graph 98

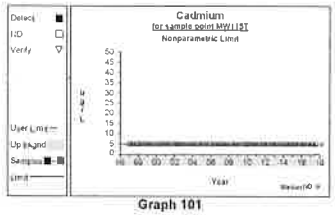


Graph 99

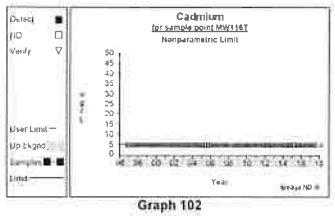


Graph 100

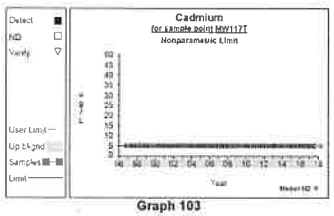
Up vs. Down Prediction Limits



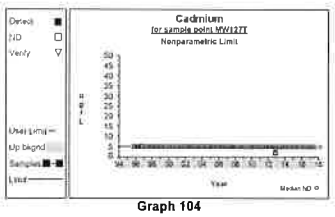
Graph 101



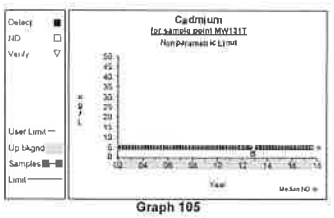
Graph 102



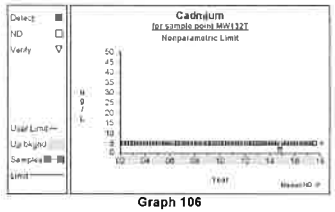
Graph 103



Graph 104



Graph 105



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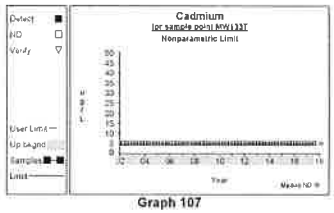
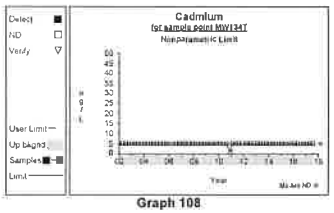
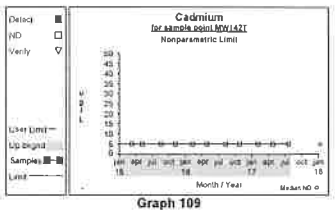


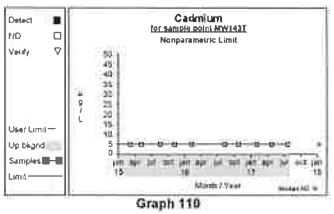
Graph 107



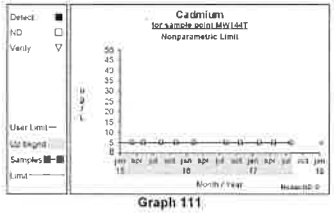
Graph 108



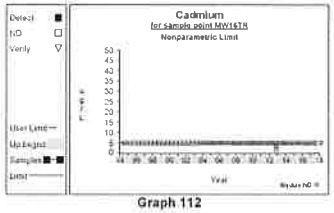
Graph 109



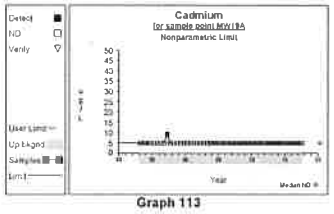
Graph 110



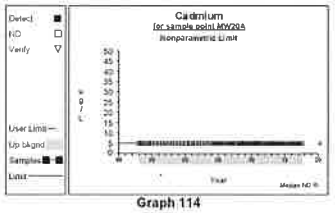
Graph 111



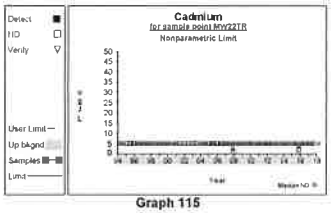
Graph 112



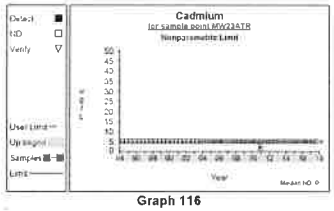
Graph 113



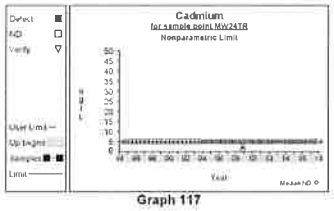
Graph 114



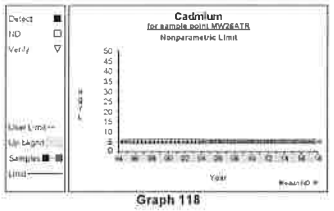
Graph 115



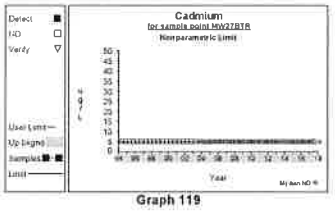
Graph 116



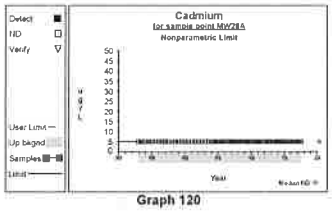
Graph 117



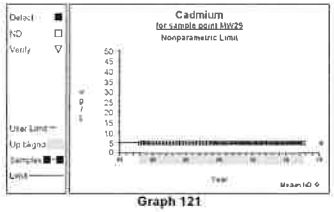
Graph 118



Graph 119



Graph 120



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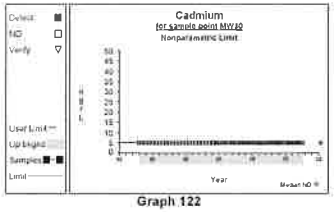

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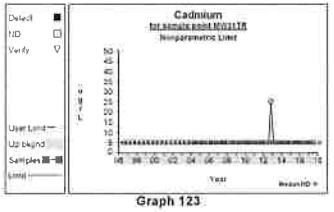
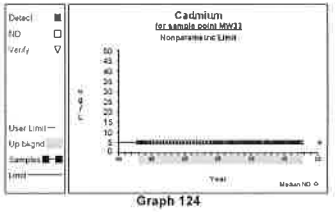
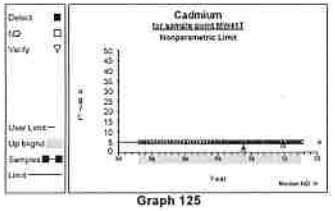


Graph 123

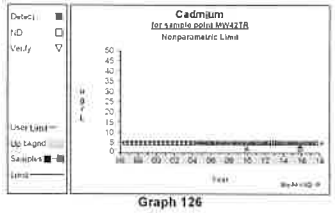


Graph 124

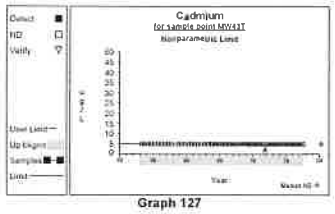


Graph 125

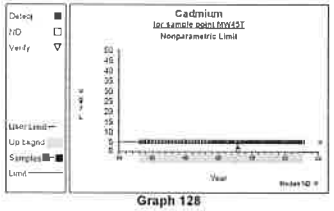
Up vs. Down Prediction Limits



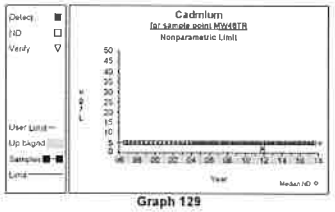
Graph 126



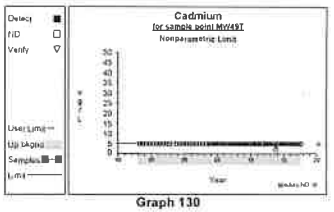
Graph 127



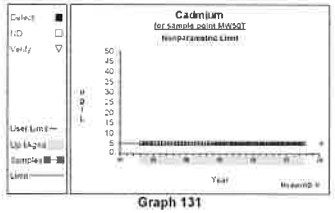
Graph 128



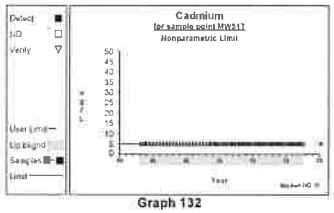
Graph 129



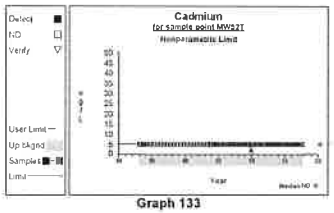
Graph 130



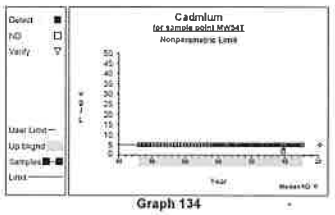
Graph 131



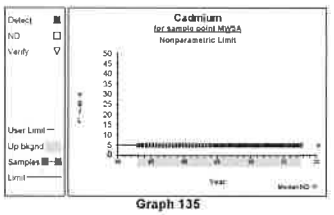
Graph 132



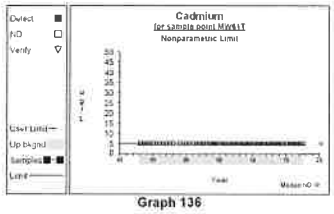
Graph 133



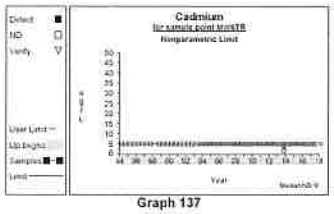
Graph 134



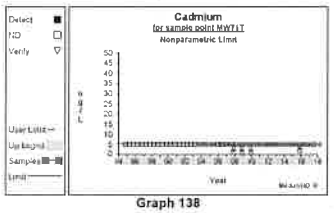
Graph 135



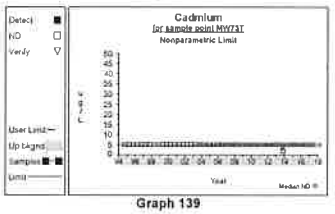
Graph 136



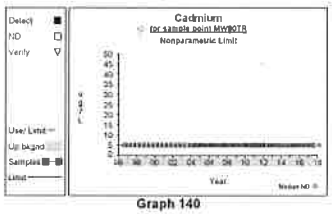
Graph 137



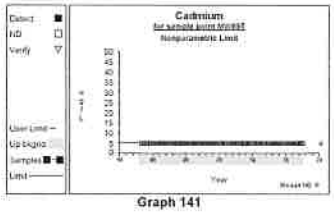
Graph 138



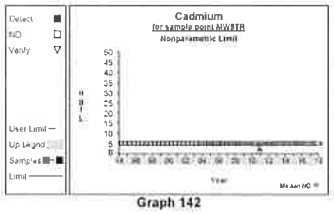
Graph 139



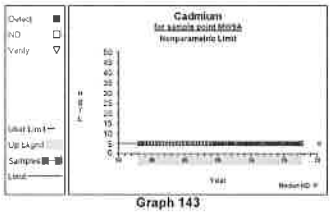
Graph 140



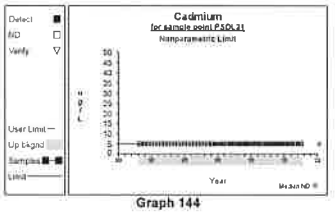
Graph 141



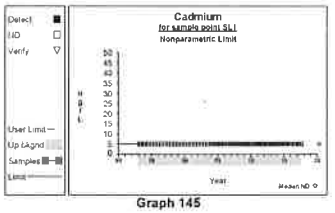
Graph 142



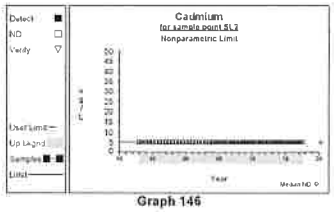
Graph 143



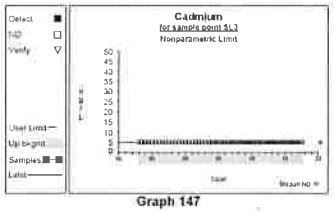
Graph 144



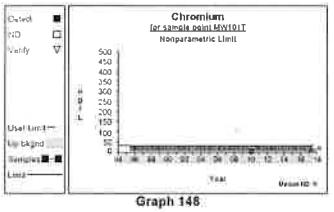
Graph 145



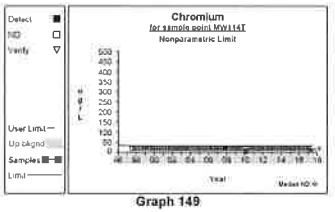
Graph 146



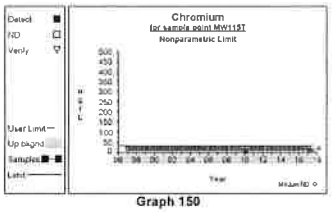
Graph 147



Graph 148

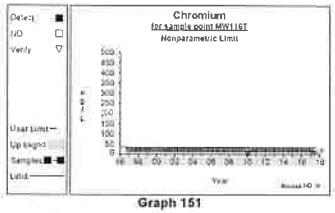


Graph 149

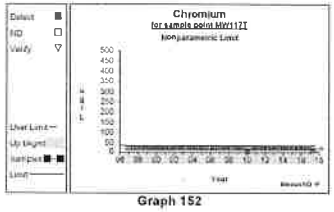


Graph 150

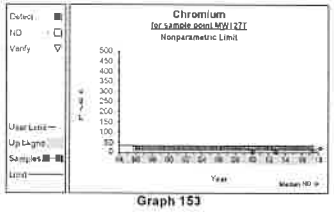
Up vs. Down Prediction Limits



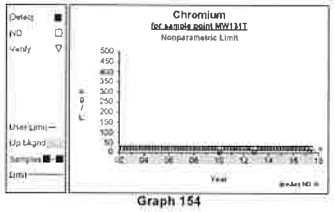
Graph 151



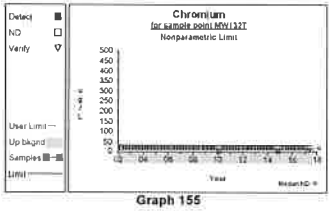
Graph 152



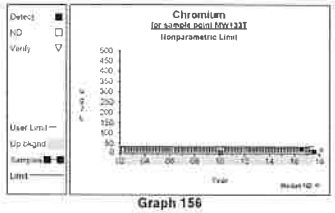
Graph 153



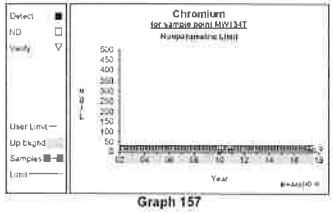
Graph 154



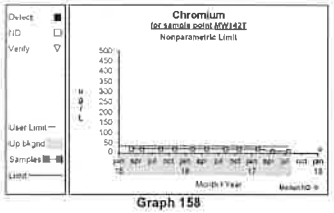
Graph 155



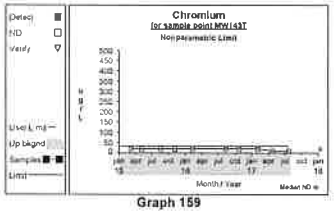
Graph 156



Graph 157



Graph 158



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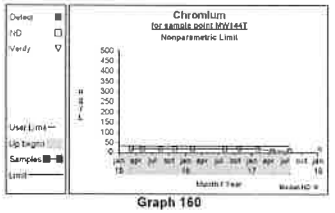
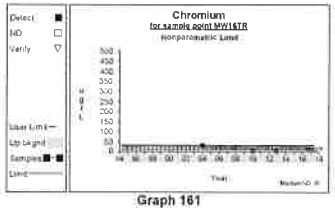
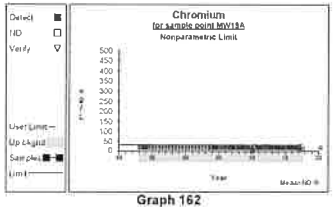


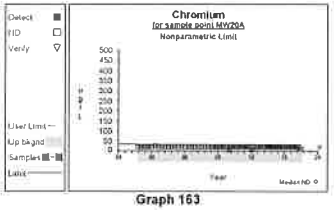
Graph 160



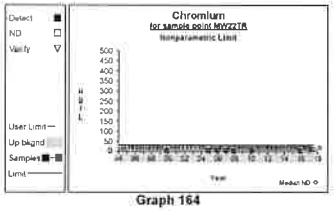
Graph 161



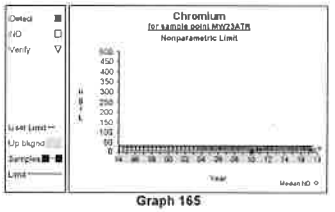
Graph 162



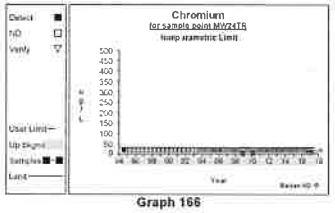
Graph 163



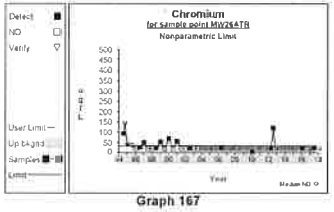
Graph 164



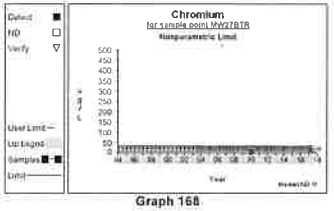
Graph 165



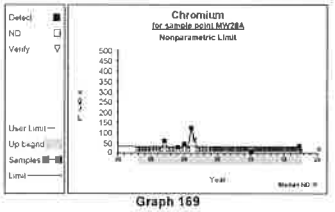
Graph 166



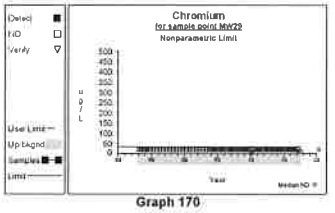
Graph 167



Graph 168



Graph 169



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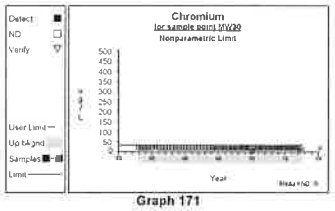
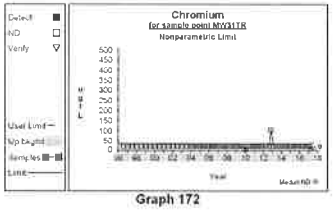
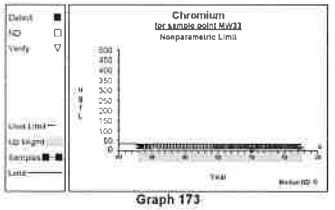


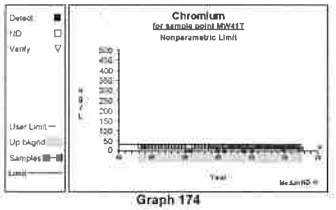
Graph 171



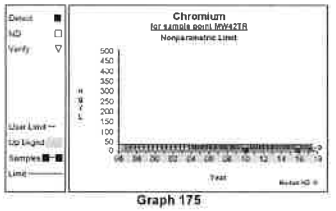
Graph 172



Graph 173

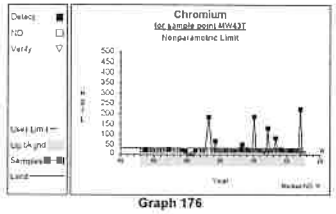


Graph 174

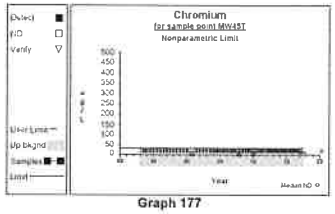


Graph 175

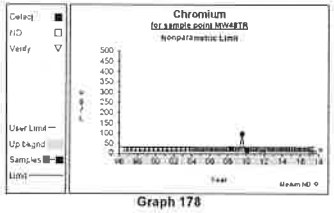
Up vs. Down Prediction Limits



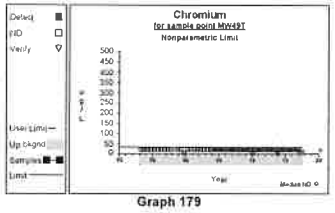
Graph 176



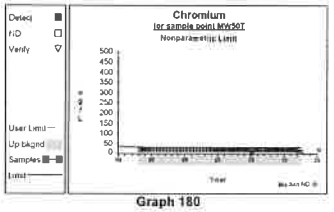
Graph 177



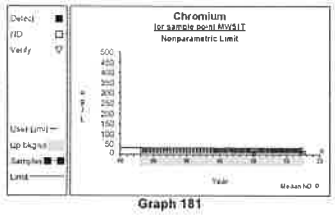
Graph 178



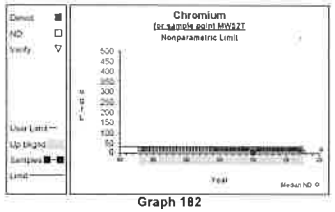
Graph 179



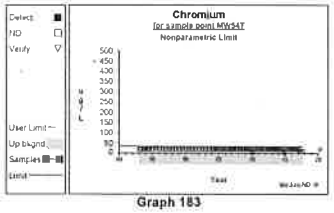
Graph 180



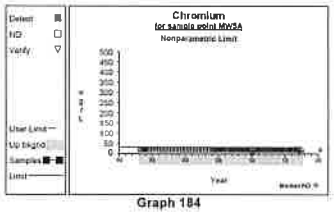
Graph 181



Graph 182



Graph 183



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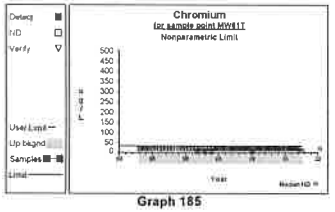
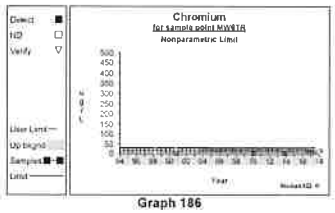
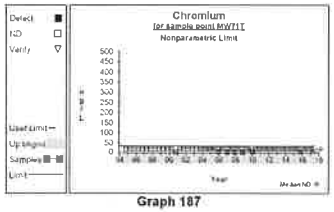


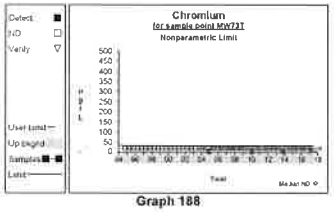
Graph 185



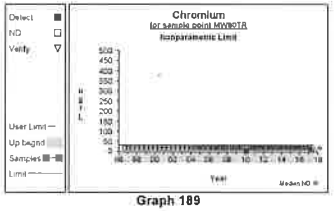
Graph 186



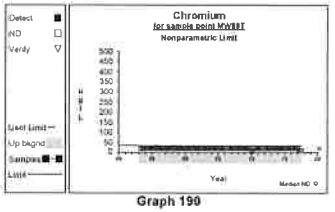
Graph 187



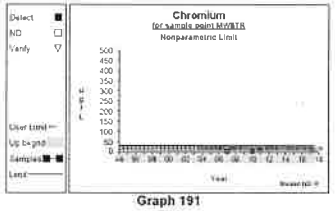
Graph 188



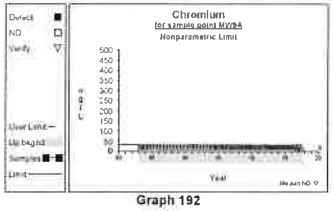
Graph 189



Graph 190



Graph 191



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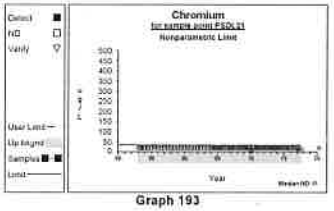
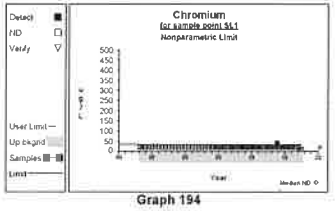
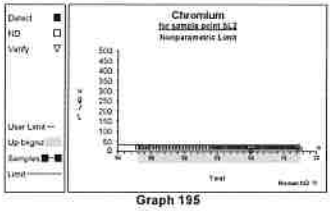


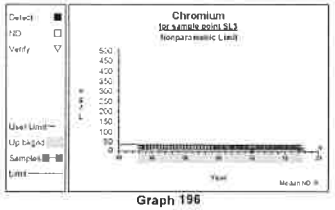
Graph 193



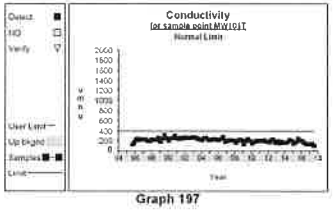
Graph 194



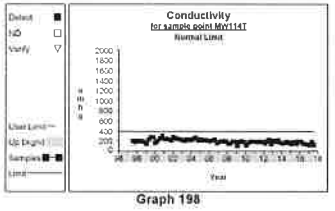
Graph 195



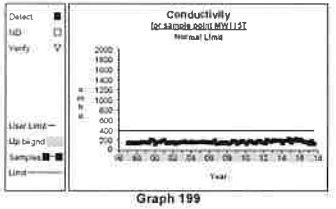
Graph 196



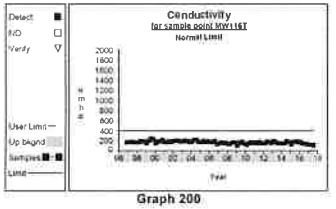
Graph 197



Graph 198

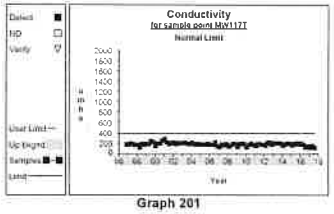


Graph 199

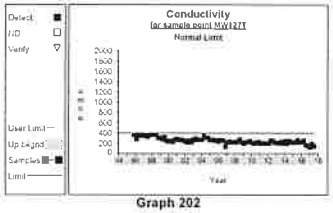


Graph 200

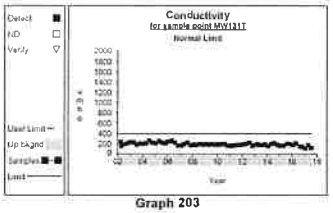
Up vs. Down Prediction Limits



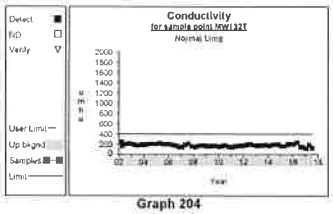
Graph 201



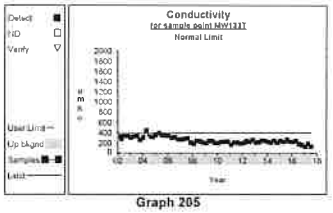
Graph 202



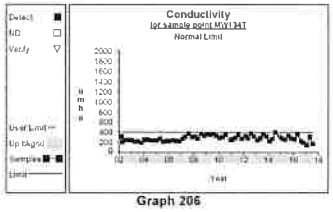
Graph 203



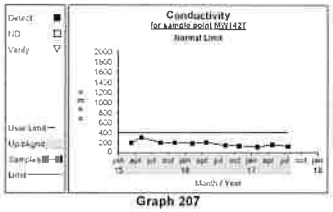
Graph 204



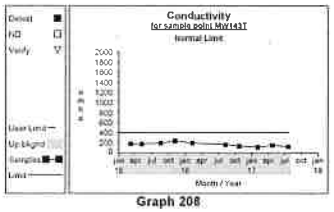
Graph 205



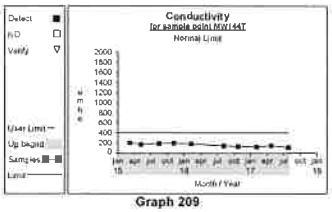
Graph 206



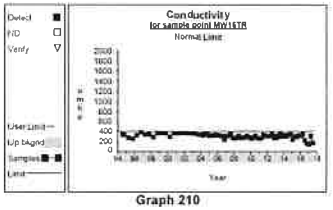
Graph 207



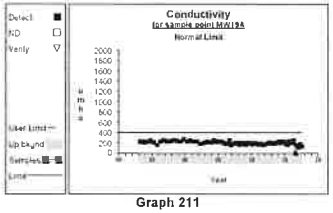
Graph 208



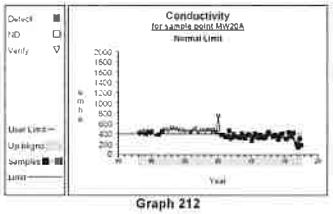
Graph 209



Graph 210



Graph 211



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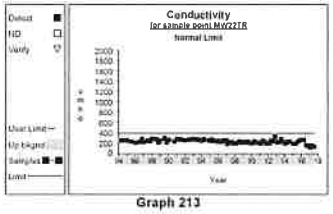

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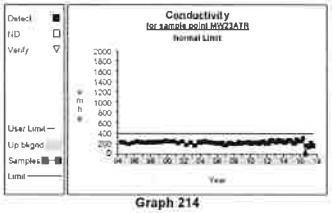
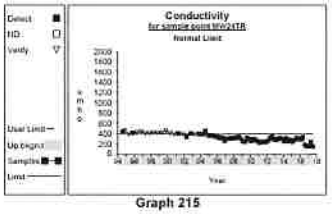
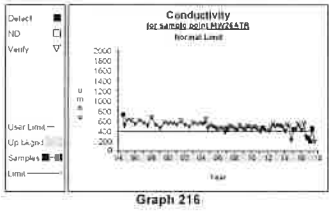


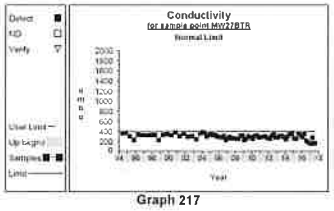
Graph 214



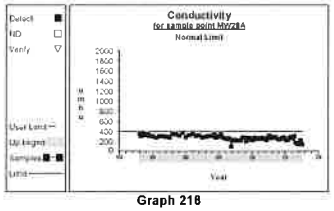
Graph 215



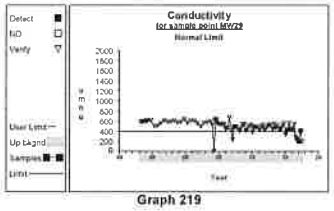
Graph 216



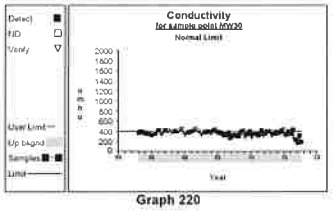
Graph 217



Graph 218



Graph 219



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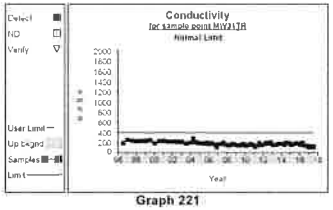
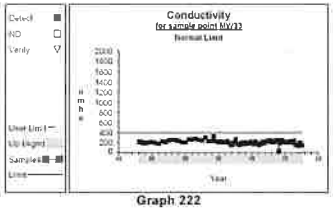
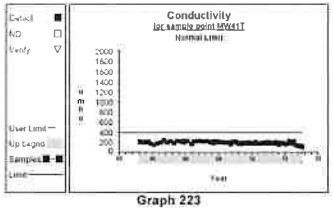


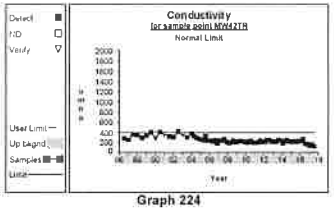
Graph 221



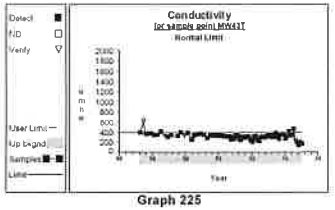
Graph 222



Graph 223

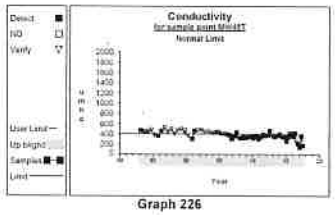


Graph 224

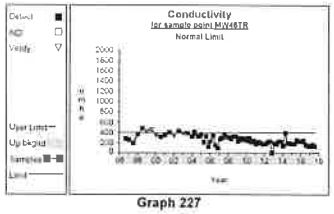


Graph 225

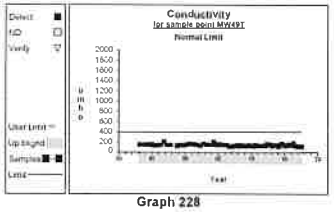
Up vs. Down Prediction Limits



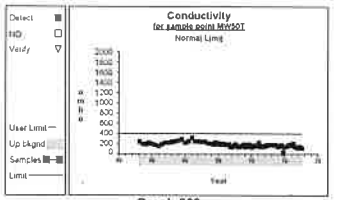
Graph 226



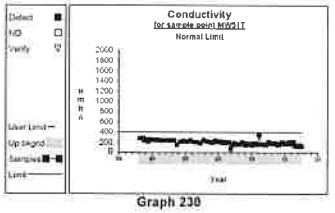
Graph 227



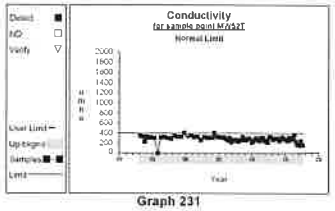
Graph 228



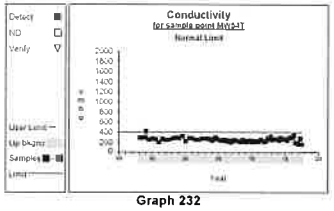
Graph 229



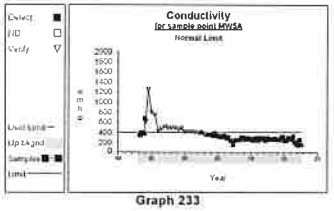
Graph 230



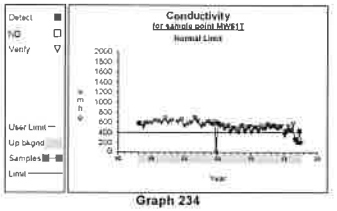
Graph 231



Graph 232



Graph 233



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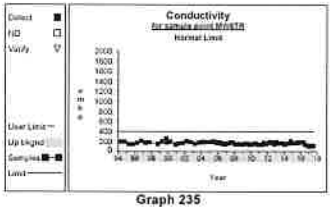
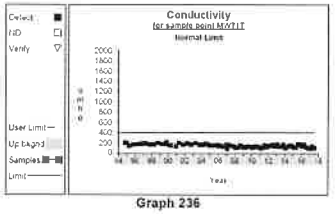
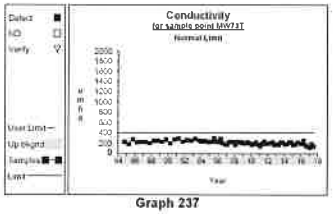


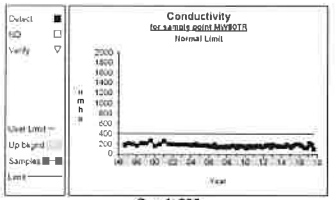
Graph 235



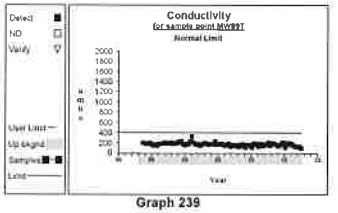
Graph 236



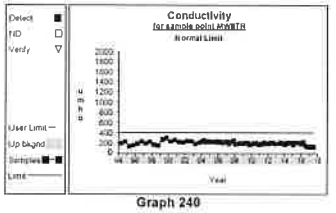
Graph 237



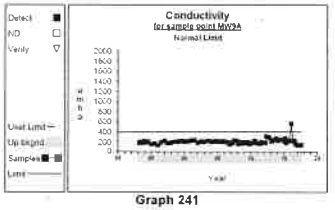
Graph 238



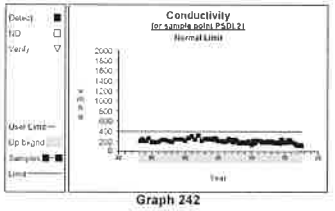
Graph 239



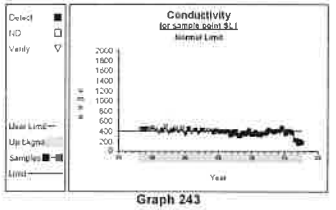
Graph 240



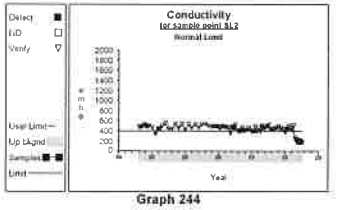
Graph 241



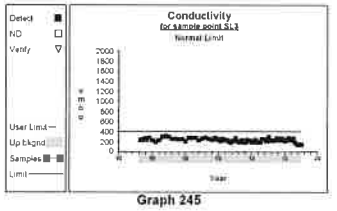
Graph 242



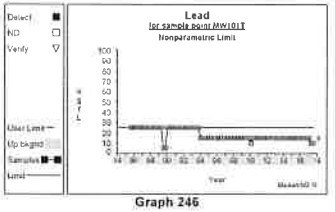
Graph 243



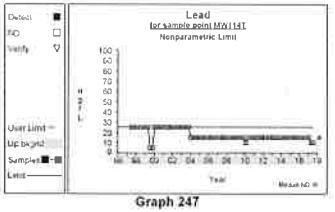
Graph 244



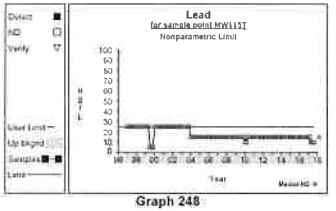
Graph 245



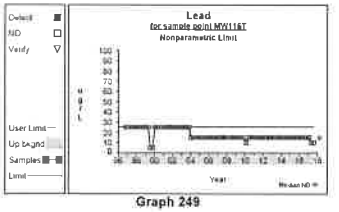
Graph 246



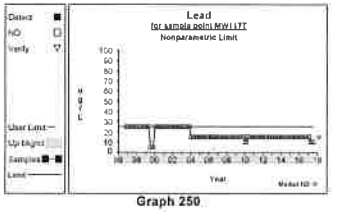
Graph 247



Graph 248

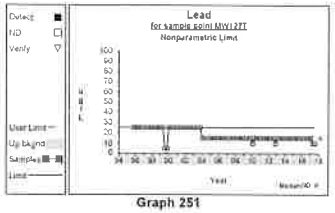


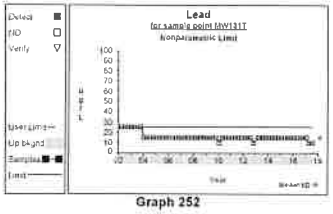
Graph 249

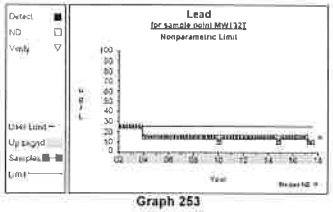


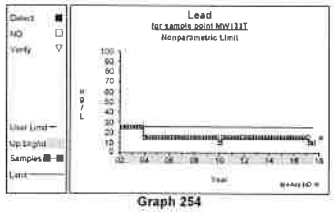
Graph 250

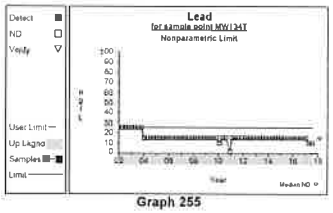
Up vs. Down Prediction Limits

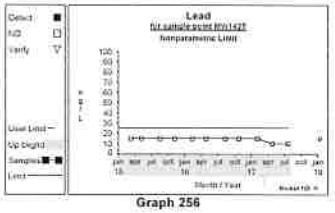

Graph 251

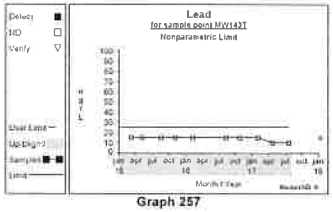

Graph 252

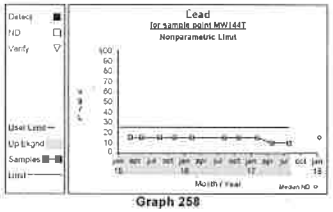

Graph 253

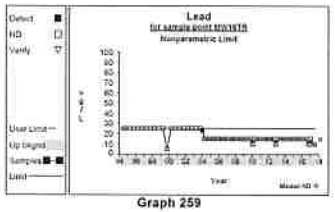

Graph 254

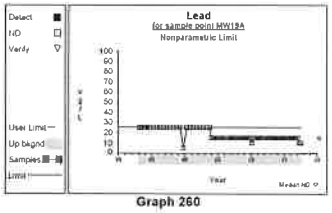

Graph 255

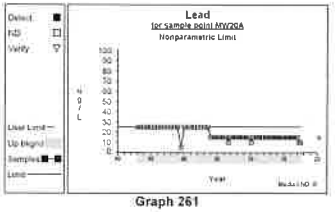

Graph 256

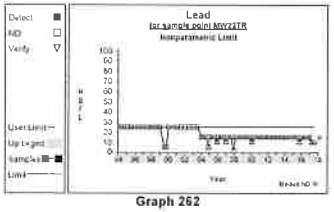

Graph 257

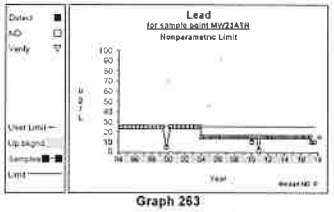

Graph 258

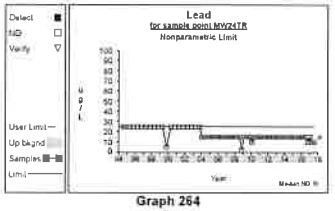

Graph 259

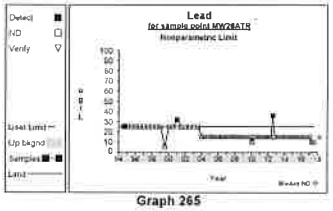

Graph 260

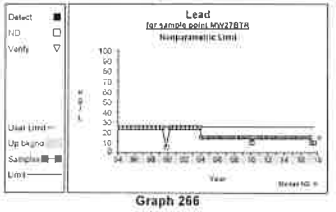

Graph 261

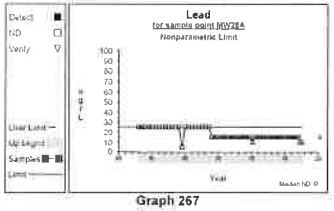

Graph 262

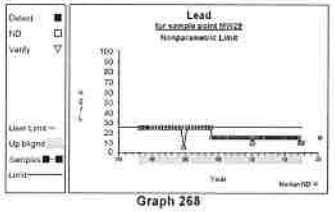

Graph 263

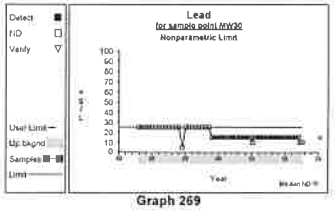

Graph 264

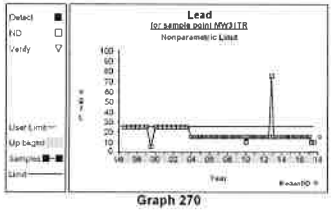

Graph 265

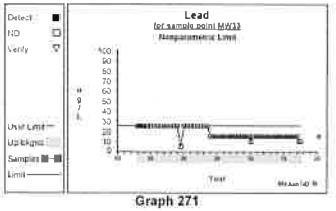

Graph 266


Graph 267


Graph 268


Graph 269


Graph 270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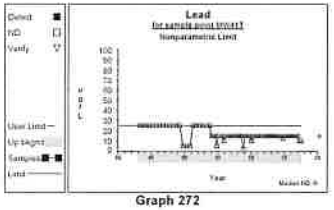
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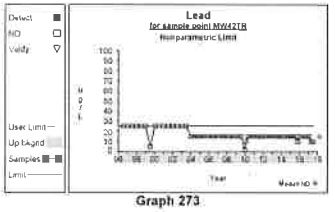
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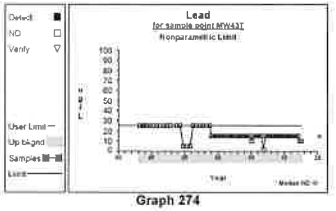
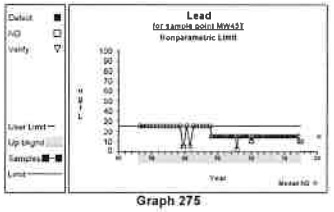
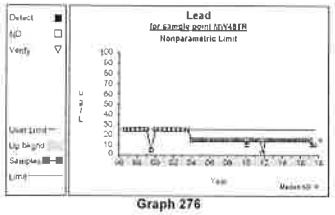
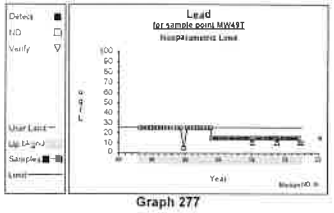

Graph 274


Graph 275

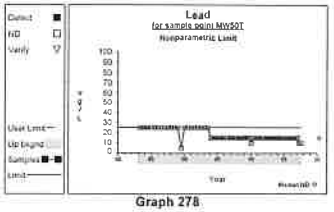
Up vs. Down Prediction Limits



Graph 276



Graph 277



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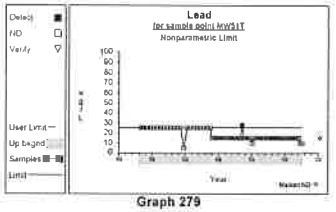

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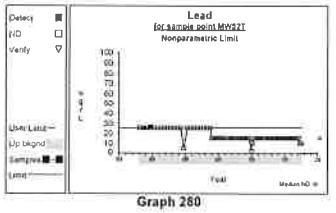
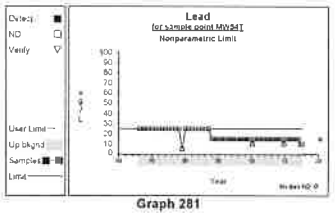


Graph 280



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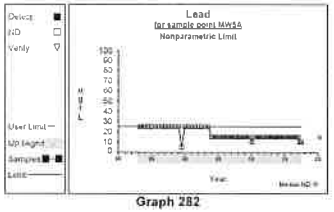
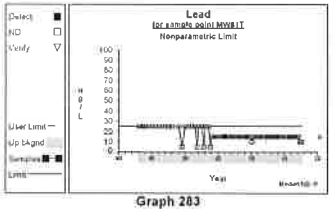


Graph 282



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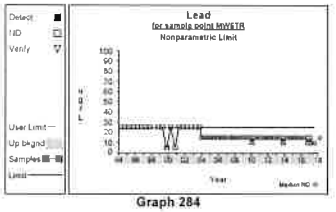

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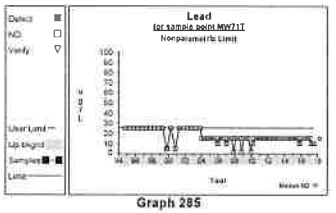

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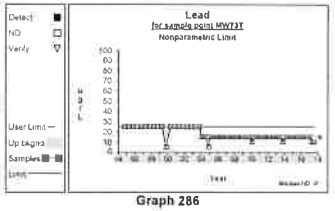

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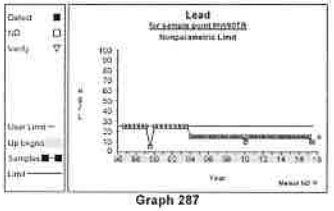

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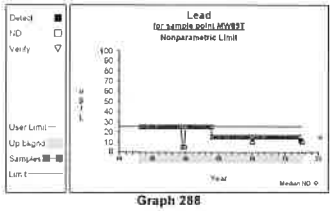

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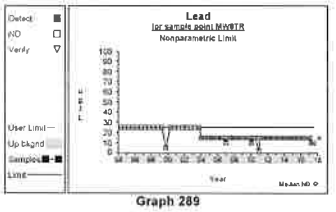

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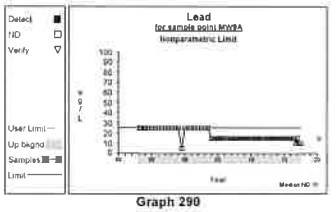

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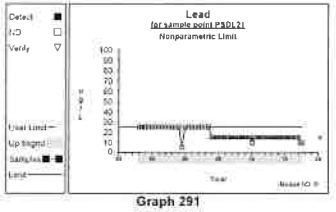

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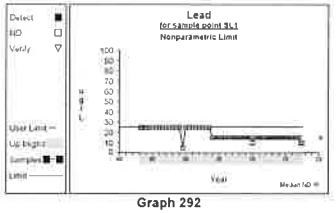

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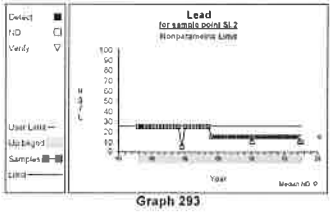

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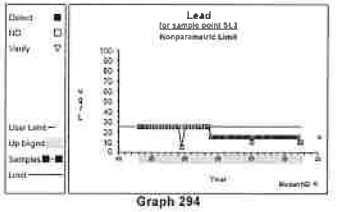

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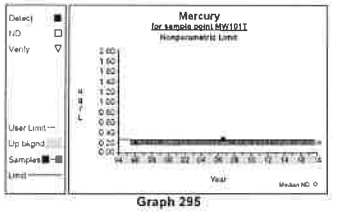

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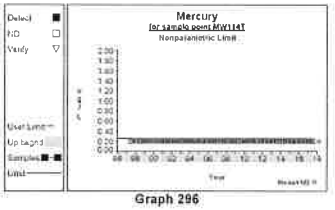

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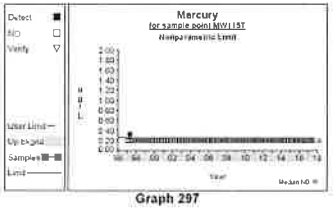

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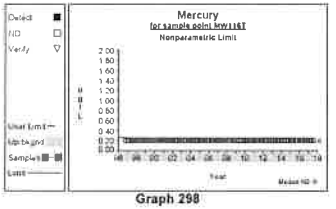

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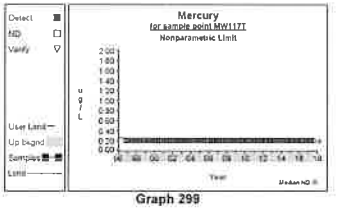

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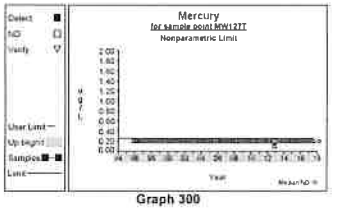
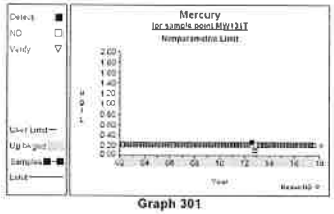
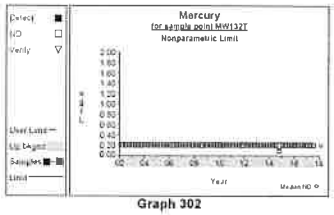


Graph 300

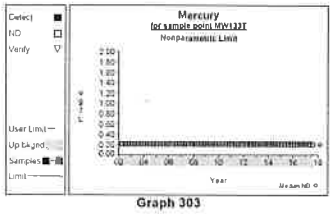
Up vs. Down Prediction Limits



Graph 301



Graph 302



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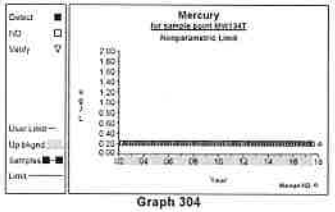

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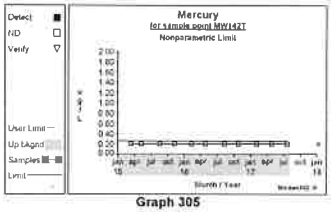
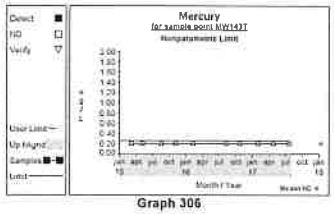


Graph 305



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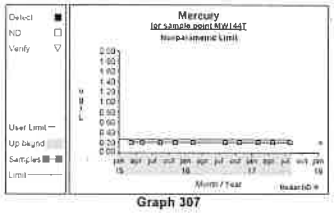

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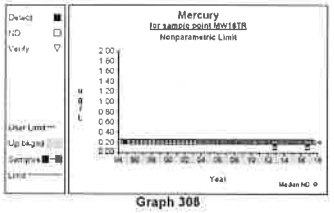

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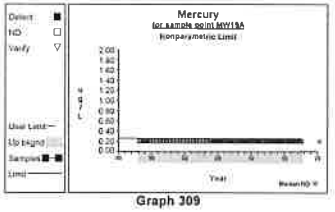

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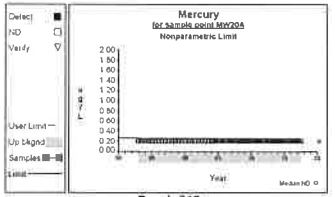

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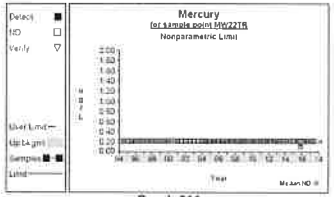
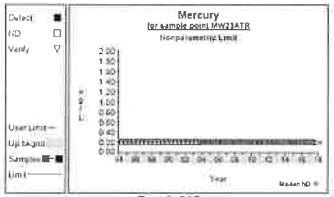
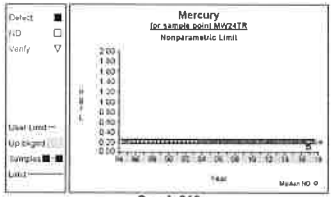


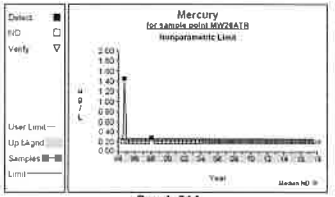
Graph 311



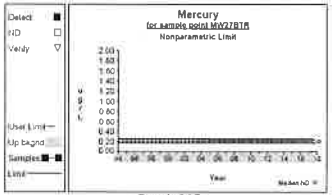
Graph 312



Graph 313



Graph 314



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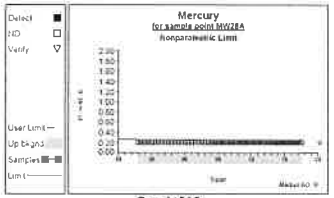
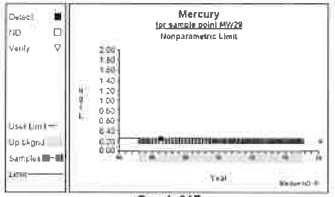
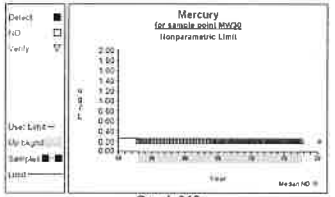


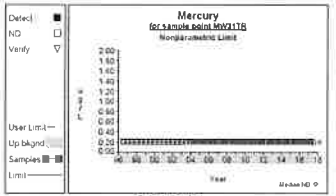
Graph 316



Graph 317



Graph 318



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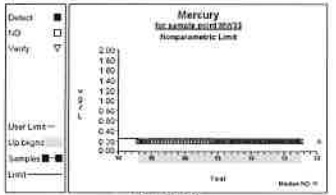

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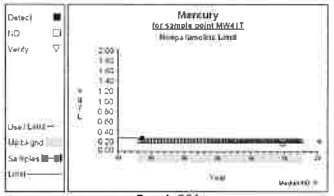

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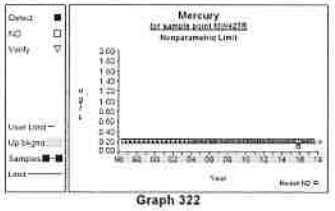

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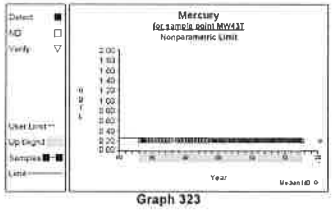
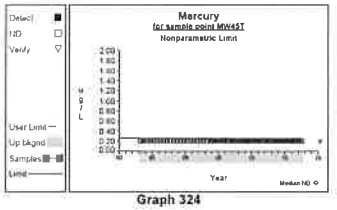
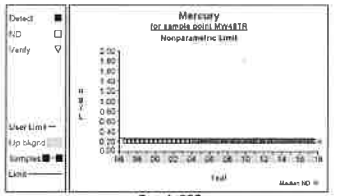


Graph 323

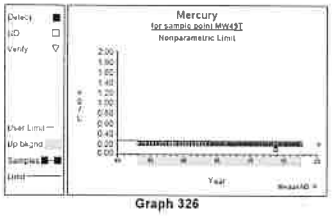


Graph 324

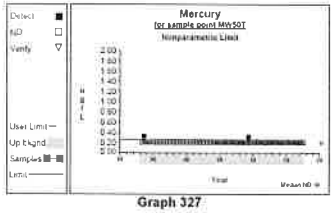


Graph 325

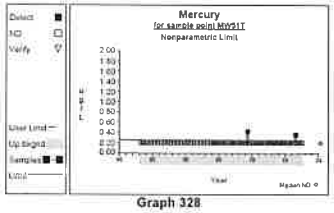
Up vs. Down Prediction Limits



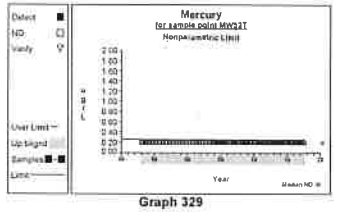
Graph 326



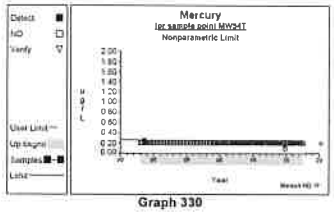
Graph 327



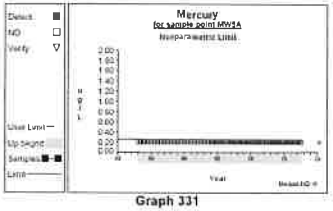
Graph 328



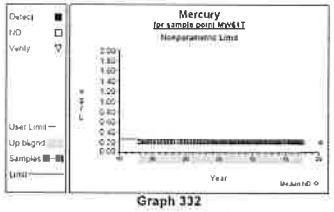
Graph 329



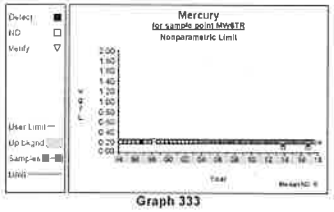
Graph 330



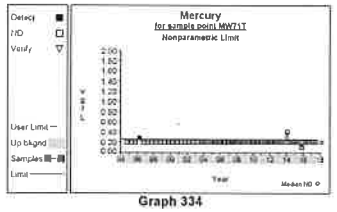
Graph 331



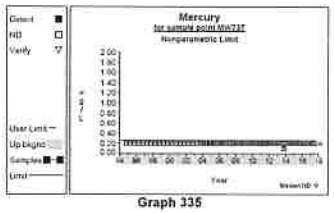
Graph 332



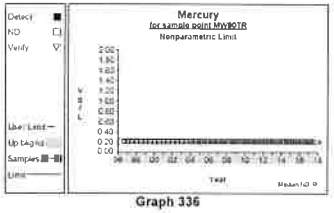
Graph 333



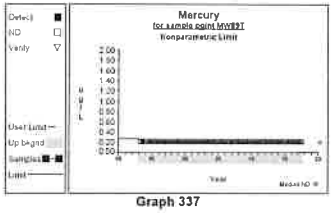
Graph 334



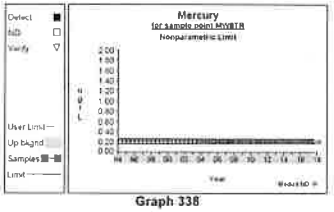
Graph 335



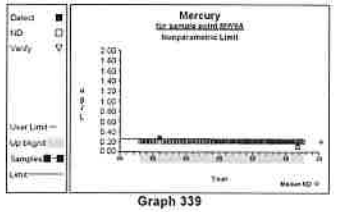
Graph 336



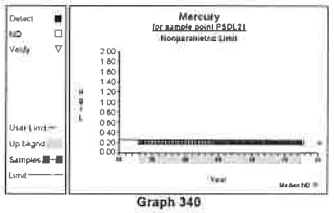
Graph 337



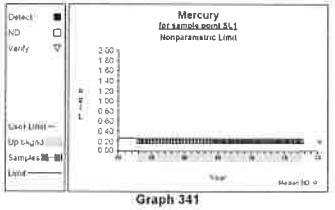
Graph 338



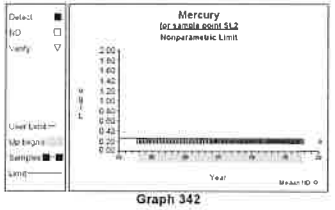
Graph 339



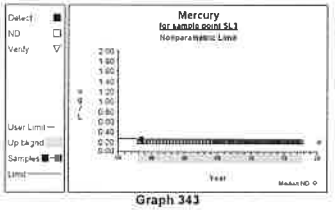
Graph 340



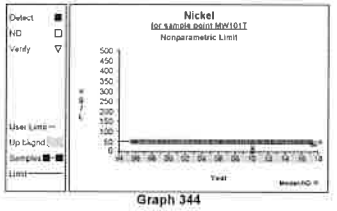
Graph 341



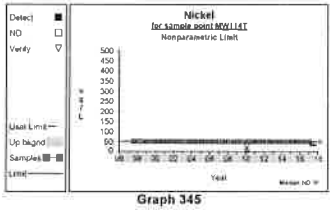
Graph 342



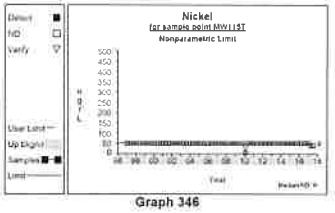
Graph 343



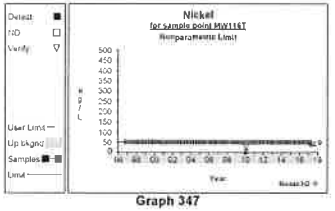
Graph 344



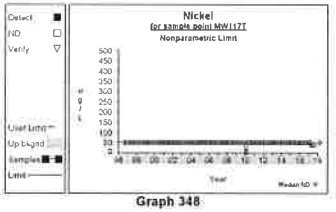
Graph 345



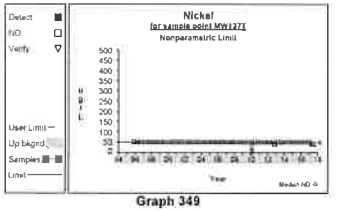
Graph 346



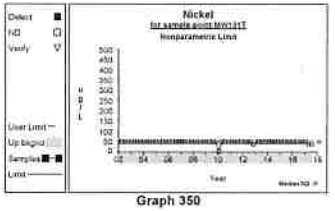
Graph 347



Graph 348

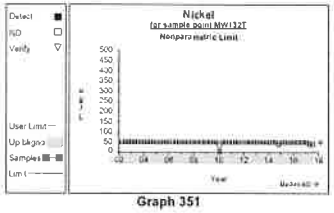


Graph 349

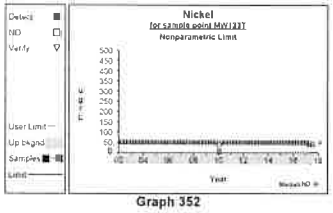


Graph 350

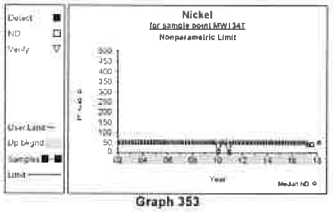
Up vs. Down Prediction Limits



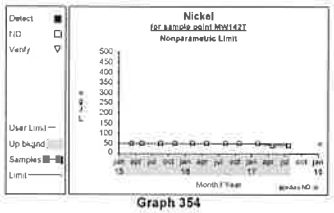
Graph 351



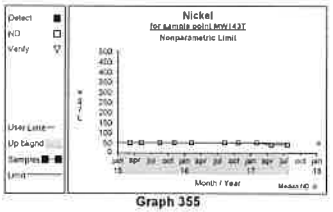
Graph 352



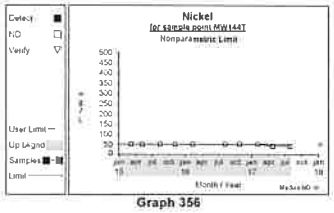
Graph 353



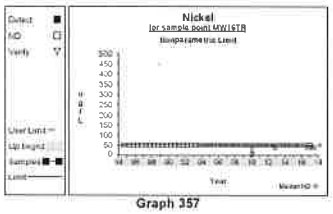
Graph 354



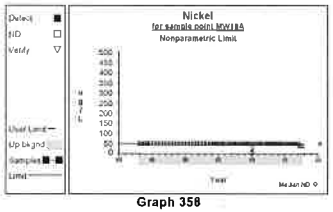
Graph 355



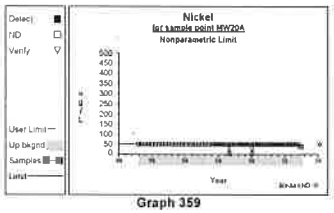
Graph 356



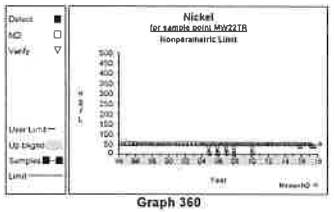
Graph 357



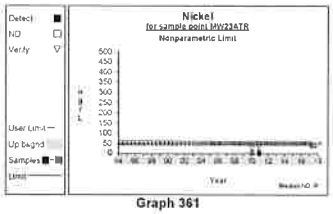
Graph 358



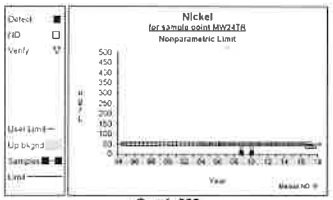
Graph 359



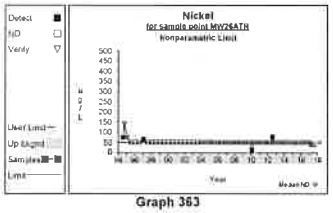
Graph 360



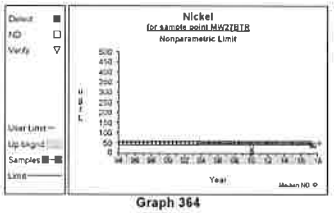
Graph 361



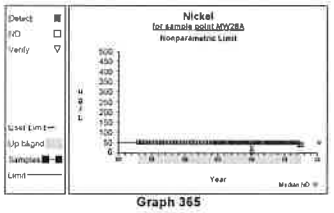
Graph 362



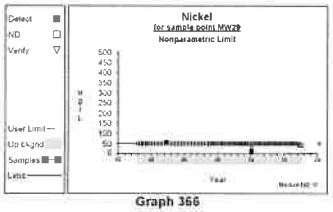
Graph 363



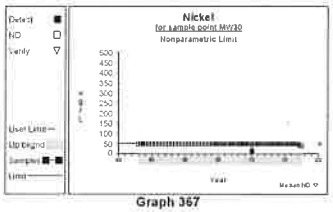
Graph 364



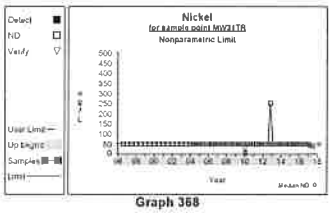
Graph 365



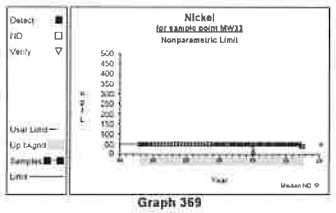
Graph 366



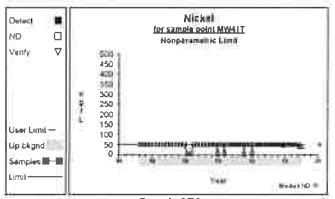
Graph 367



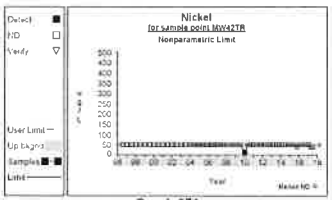
Graph 368



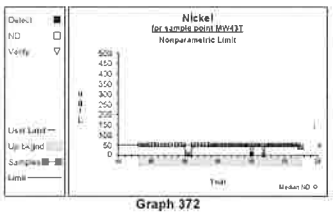
Graph 369



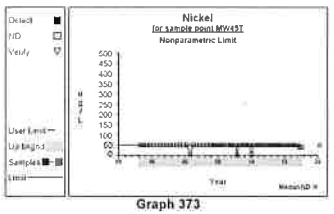
Graph 370



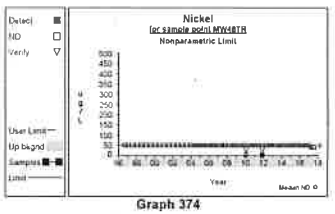
Graph 371



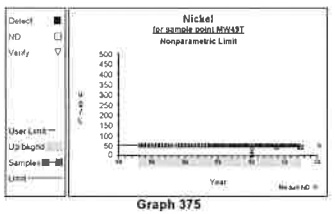
Graph 372



Graph 373

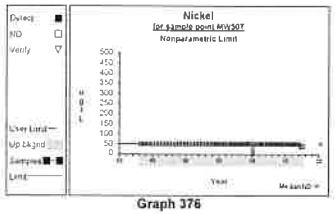


Graph 374

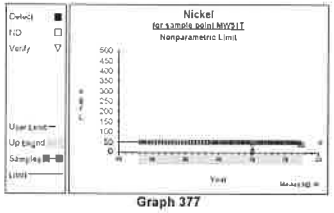


Graph 375

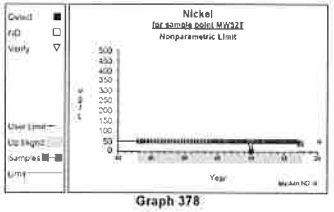
Up vs. Down Prediction Limits



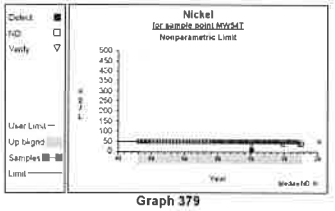
Graph 376



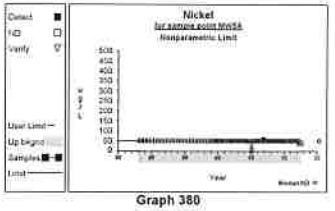
Graph 377



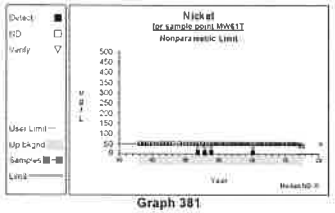
Graph 378



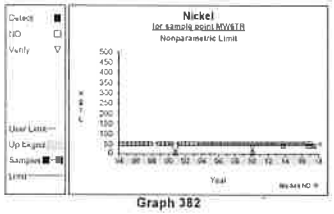
Graph 379



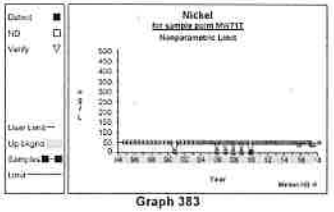
Graph 380



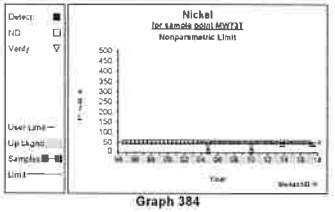
Graph 381



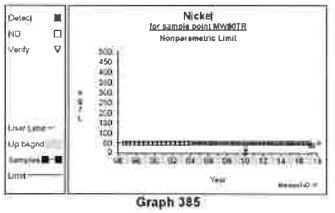
Graph 382



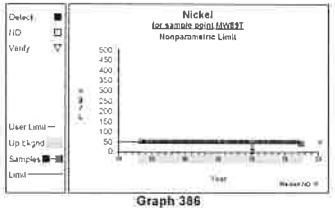
Graph 383



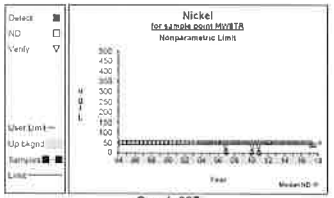
Graph 384



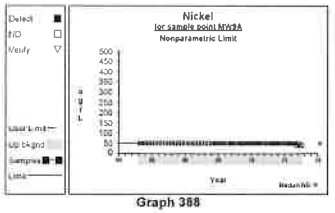
Graph 385



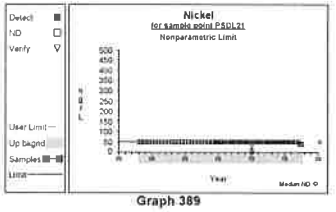
Graph 386



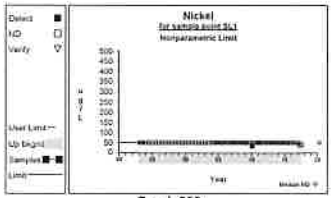
Graph 387



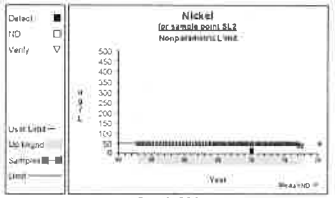
Graph 388



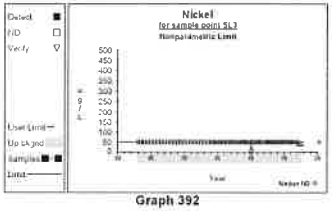
Graph 389



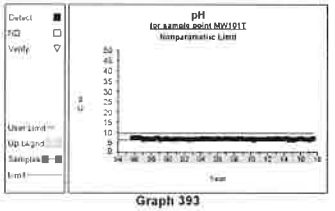
Graph 390



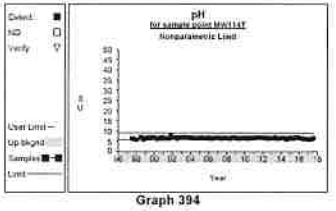
Graph 391



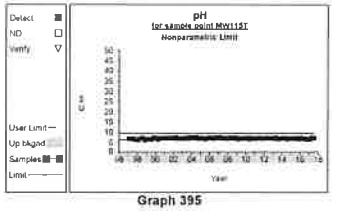
Graph 392



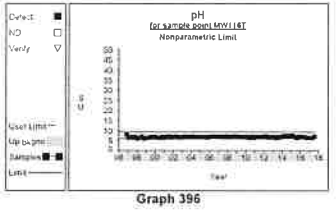
Graph 393



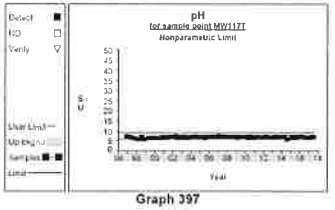
Graph 394



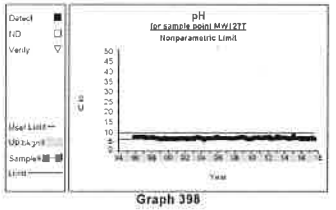
Graph 395



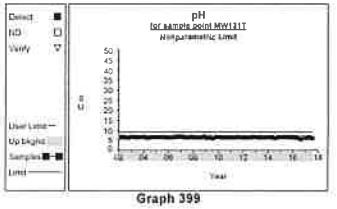
Graph 396



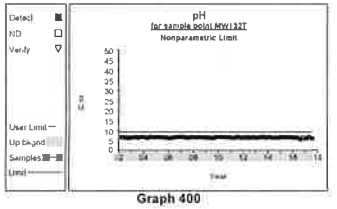
Graph 397



Graph 398

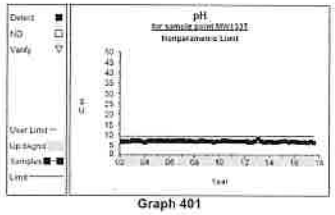


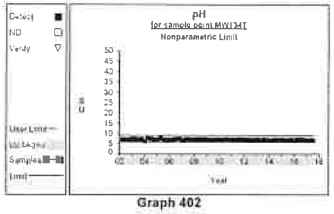
Graph 399

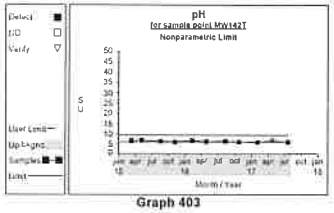


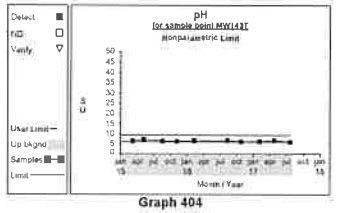
Graph 400

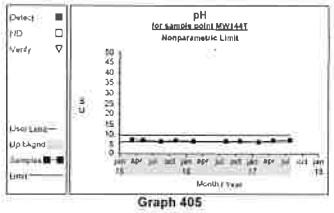
Up vs. Down Prediction Limits

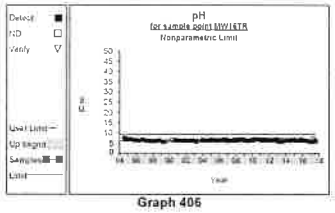

Graph 401

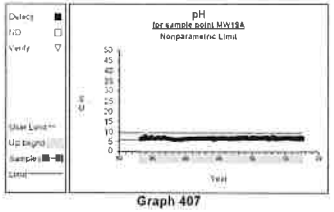

Graph 402

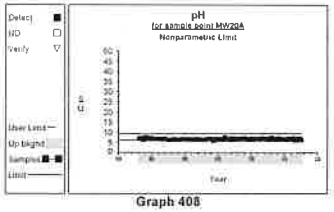

Graph 403

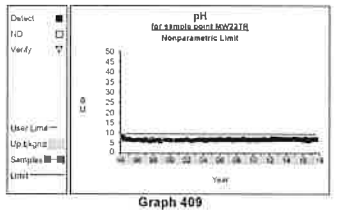

Graph 404

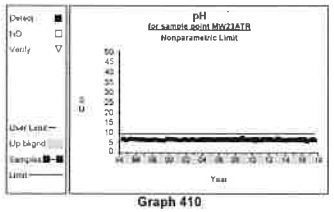

Graph 405

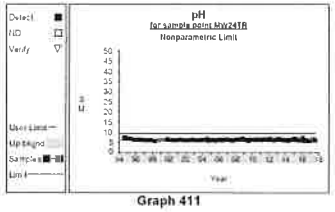

Graph 406

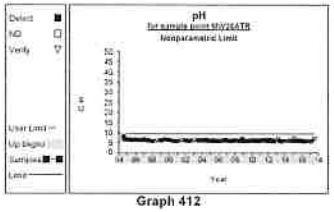

Graph 407

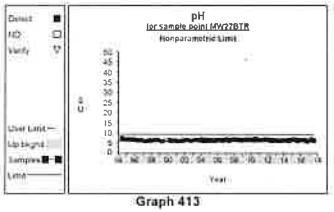

Graph 408

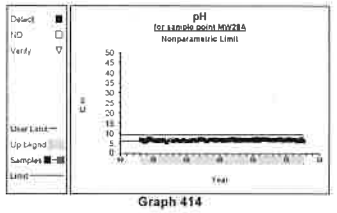

Graph 409

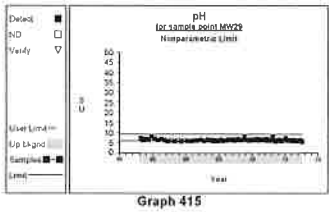

Graph 410

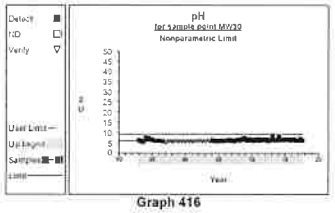

Graph 411

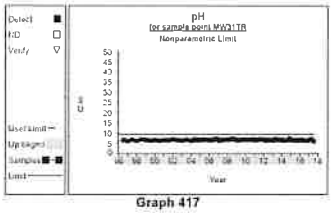

Graph 412

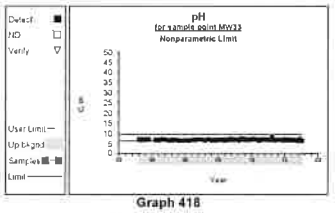

Graph 413

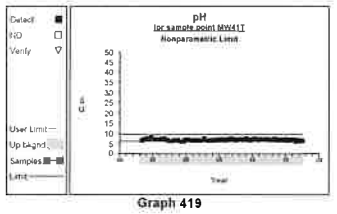

Graph 414

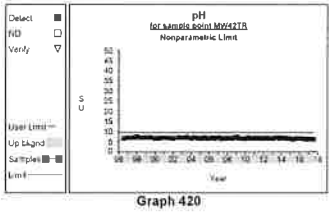

Graph 415

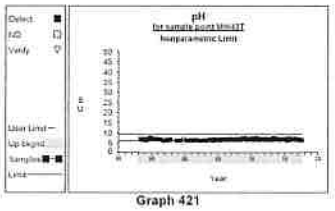

Graph 416

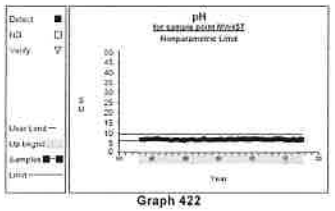

Graph 417

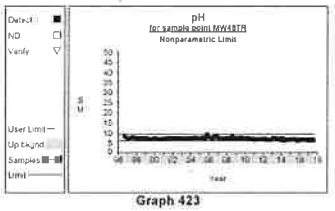

Graph 418

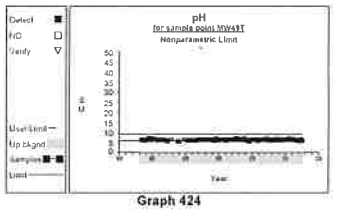

Graph 419

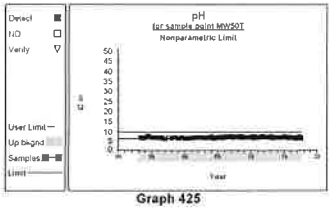

Graph 420


Graph 421

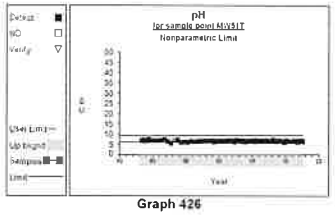

Graph 422


Graph 423

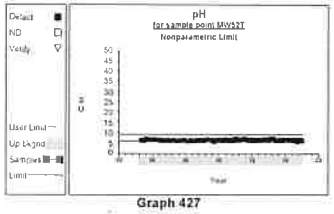

Graph 424


Graph 425

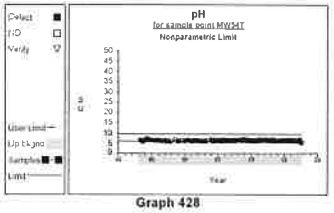
Up vs. Down Prediction Limits



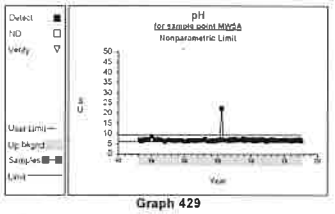
Graph 426



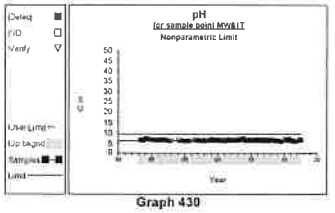
Graph 427



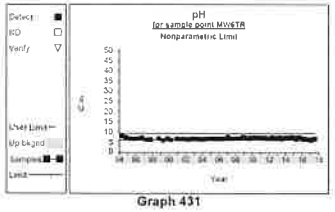
Graph 428



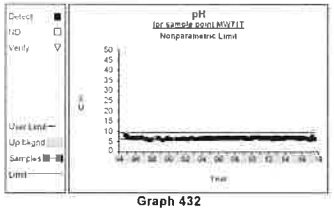
Graph 429



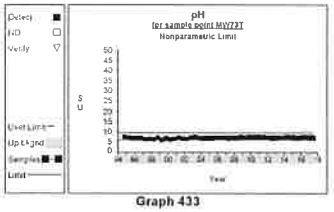
Graph 430



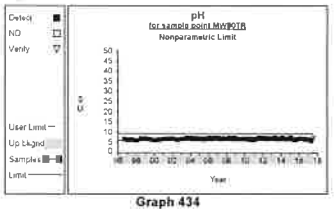
Graph 431



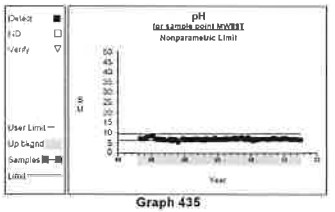
Graph 432



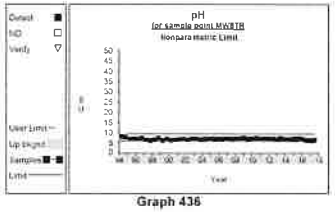
Graph 433



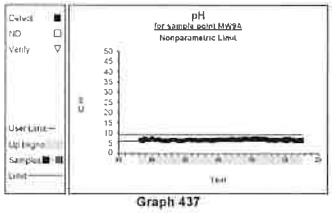
Graph 434



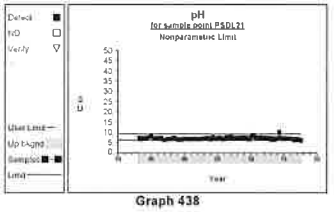
Graph 435



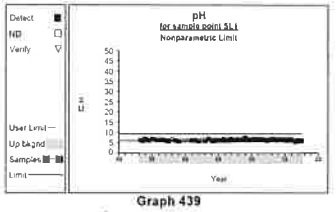
Graph 436



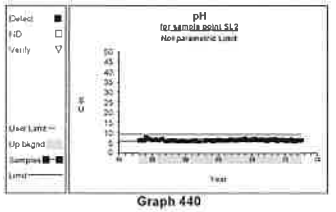
Graph 437



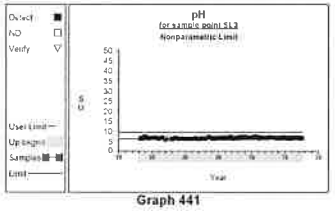
Graph 438



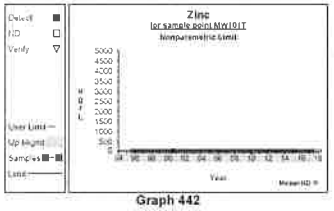
Graph 439



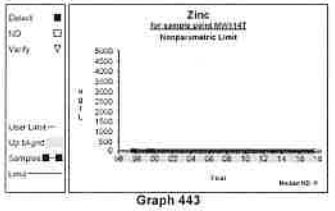
Graph 440



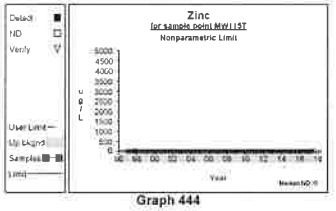
Graph 441



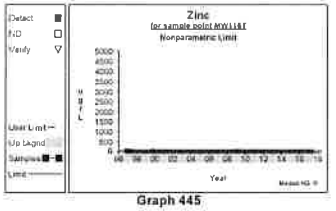
Graph 442



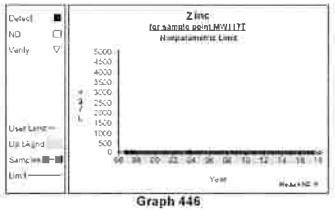
Graph 443



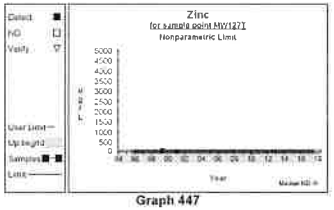
Graph 444



Graph 445



Graph 446



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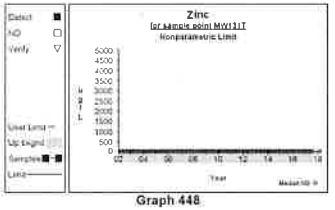
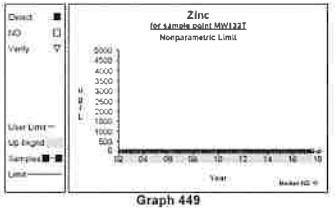
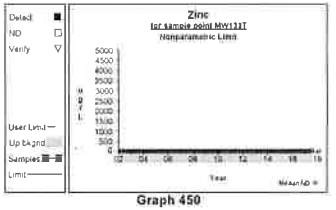


Graph 448

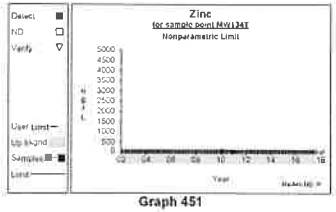


Graph 449

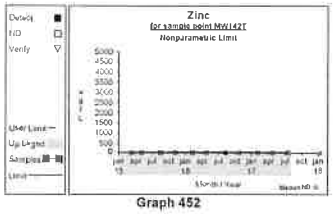


Graph 450

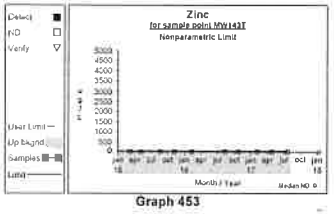
Up vs. Down Prediction Limits



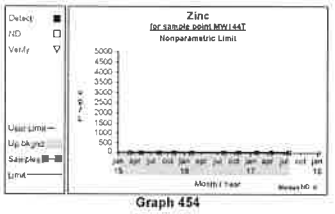
Graph 451



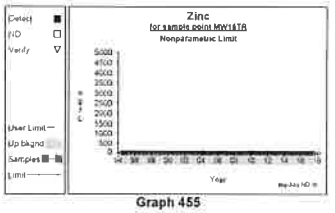
Graph 452



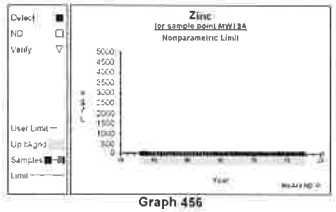
Graph 453



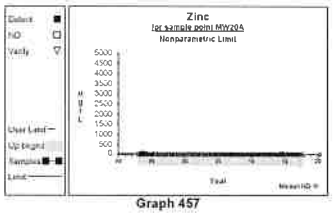
Graph 454



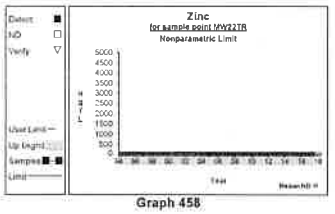
Graph 455



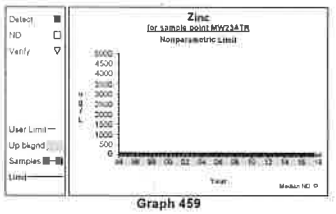
Graph 456



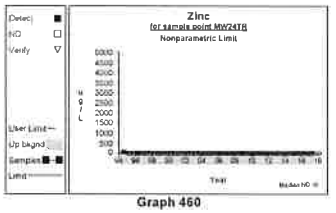
Graph 457



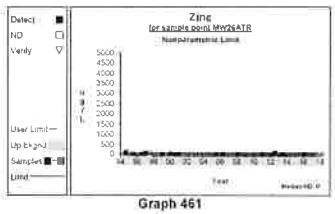
Graph 458



Graph 459



Graph 460



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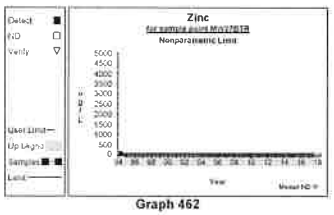

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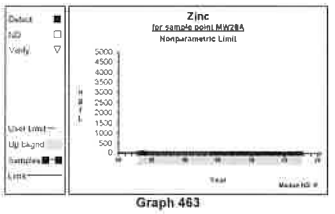

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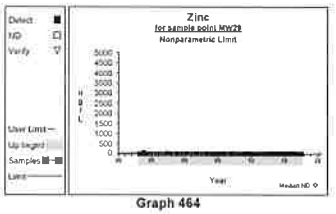

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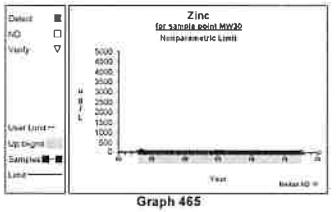

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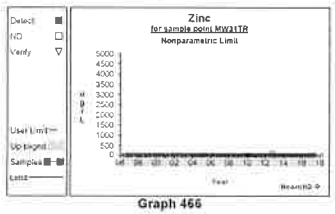
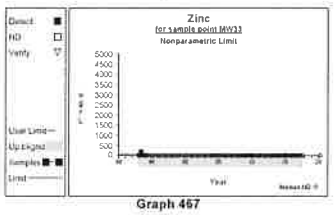


Graph 466



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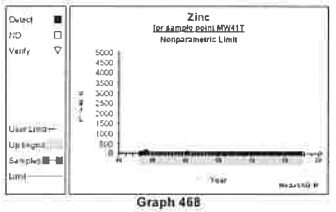

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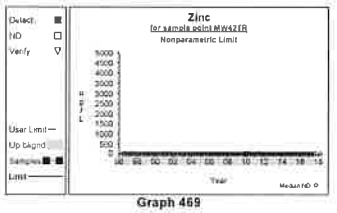
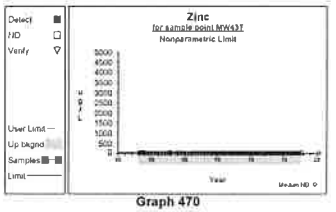
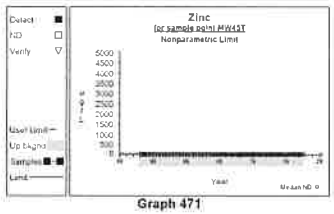


Graph 469



Graph 470



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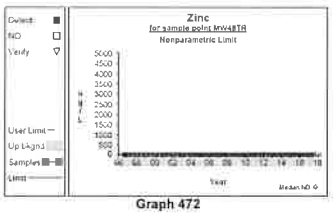
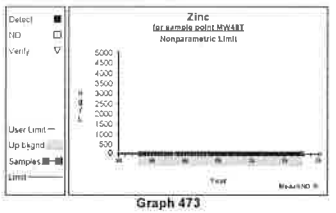
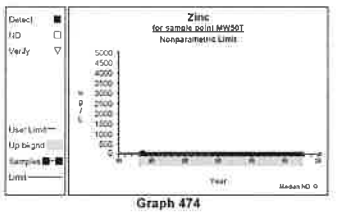


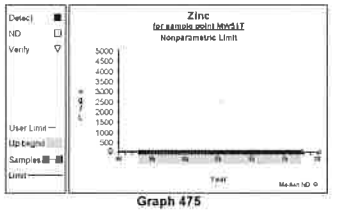
Graph 472



Graph 473

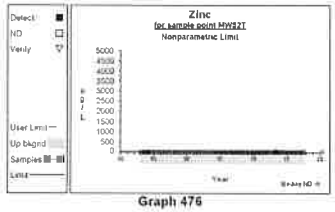


Graph 474



Graph 475

Up vs. Down Prediction Limits



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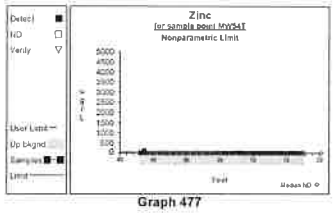

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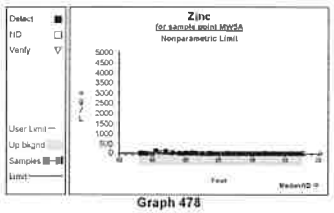

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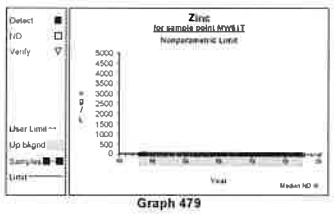

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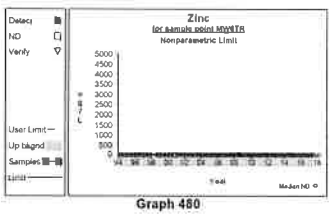
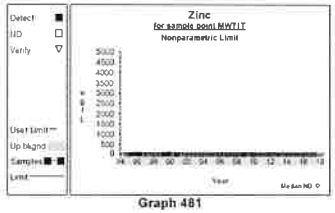
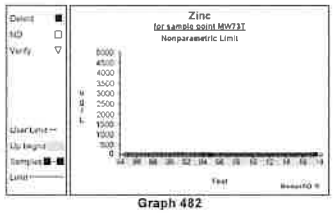


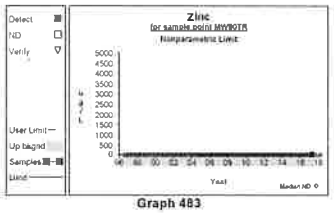
Graph 480



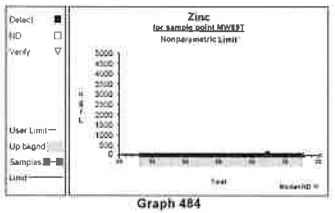
Graph 481



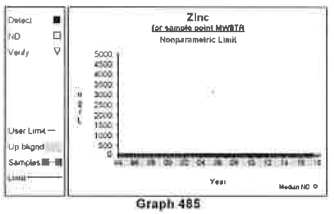
Graph 482



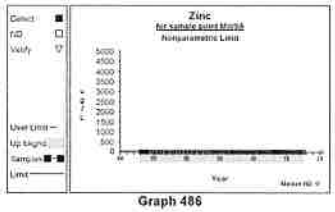
Graph 483



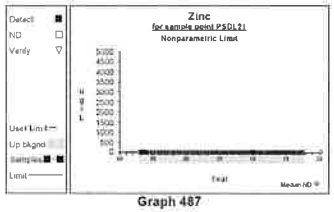
Graph 484



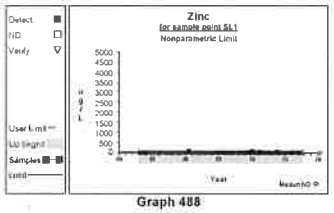
Graph 485



Graph 486



Graph 487



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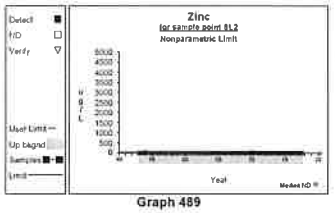
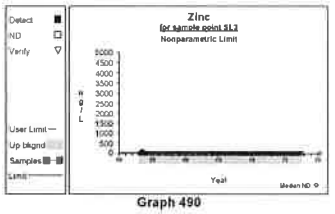
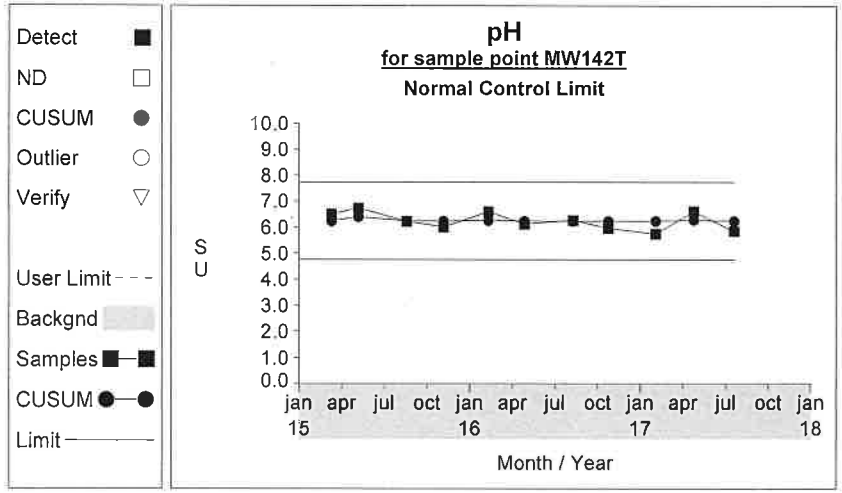


Graph 489

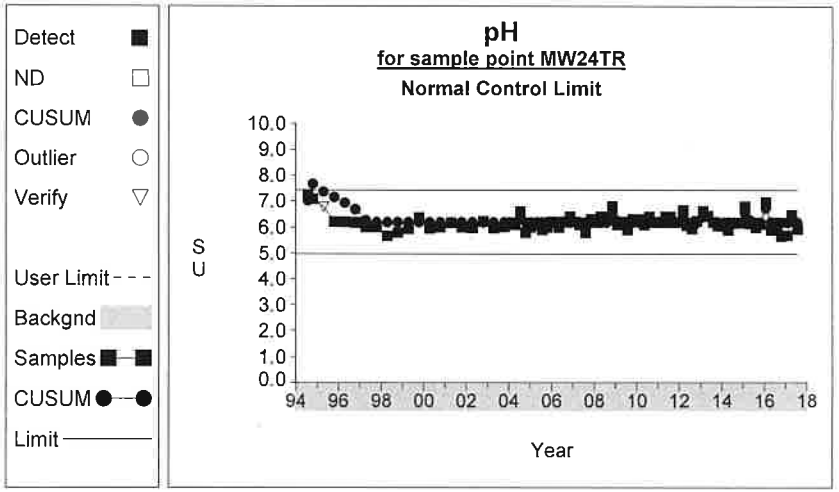


Graph 490

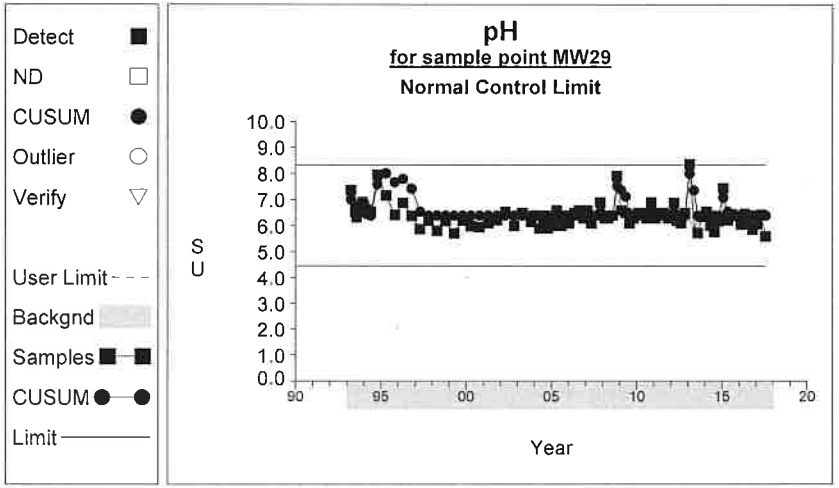
Intra-Well Control Charts



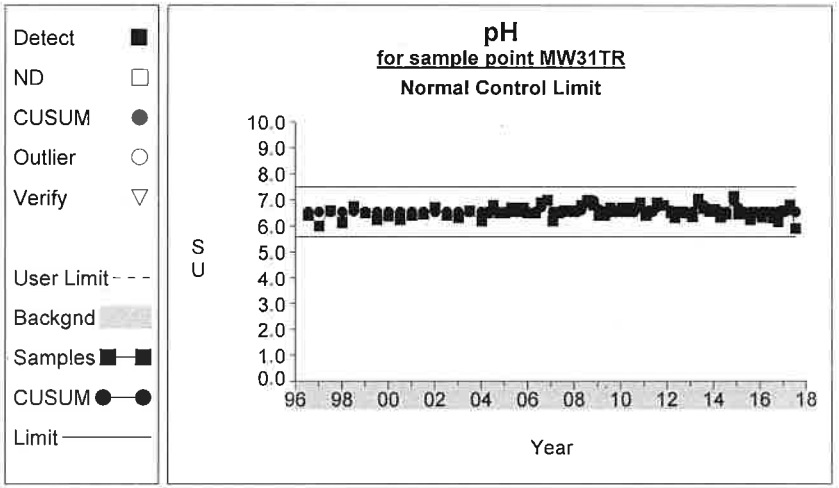
Graph 1



Graph 2

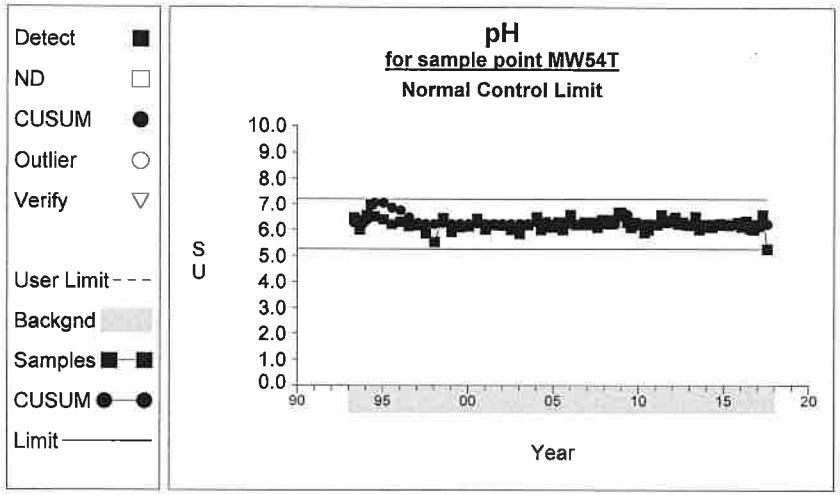


Graph 3



Graph 4

Intra-Well Control Charts



Graph 5

Appendix E

Third Quarter Statistical Analysis – Upper Black Creek

2017 Third Quarter Detection Monitoring Program Report
Pinewood Site
SCD 070375 985

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Table 1

Upgradient Data

Constituent	Units	Well	Date		Result
Arsenic	ug/L	MW1	01/11/1993	ND	10.0000
Arsenic	ug/L	MW1	03/04/1993	ND	10.0000
Arsenic	ug/L	MW1	05/03/1993	ND	10.0000
Arsenic	ug/L	MW1	06/03/1993	ND	10.0000
Arsenic	ug/L	MW1	07/06/1993	ND	10.0000
Arsenic	ug/L	MW1	09/07/1993	ND	10.0000
Arsenic	ug/L	MW1	11/04/1993	ND	10.0000
Arsenic	ug/L	MW1	12/06/1993	ND	10.0000
Arsenic	ug/L	MW1	02/14/1994	ND	10.0000
Arsenic	ug/L	MW1	05/11/1994	ND	10.0000
Arsenic	ug/L	MW1	07/19/1994	ND	10.0000
Arsenic	ug/L	MW1	10/19/1994	ND	10.0000
Arsenic	ug/L	MW1	01/16/1995	ND	10.0000
Arsenic	ug/L	MW1	04/19/1995	ND	10.0000
Arsenic	ug/L	MW1	07/24/1995	ND	10.0000
Arsenic	ug/L	MW1	10/24/1995	ND	10.0000
Arsenic	ug/L	MW1	01/22/1996	ND	10.0000
Arsenic	ug/L	MW1	04/22/1996	ND	10.0000
Arsenic	ug/L	MW1	07/22/1996	ND	10.0000
Arsenic	ug/L	MW1	10/21/1996	ND	10.0000
Arsenic	ug/L	MW1	01/20/1997	ND	10.0000
Arsenic	ug/L	MW1	04/21/1997	ND	10.0000
Arsenic	ug/L	MW1	07/15/1997	ND	10.0000
Arsenic	ug/L	MW1	10/16/1997	ND	10.0000
Arsenic	ug/L	MW1	01/19/1998	ND	10.0000
Arsenic	ug/L	MW1	04/20/1998	ND	10.0000
Arsenic	ug/L	MW1	07/15/1998	ND	10.0000
Arsenic	ug/L	MW1	10/19/1998	ND	10.0000
Arsenic	ug/L	MW1	01/18/1999	ND	10.0000
Arsenic	ug/L	MW1	04/20/1999	ND	10.0000
Arsenic	ug/L	MW1	07/19/1999	ND	10.0000
Arsenic	ug/L	MW1	10/18/1999	ND	10.0000
Arsenic	ug/L	MW1	01/17/2000	ND	10.0000
Arsenic	ug/L	MW1	04/18/2000	ND	10.0000
Arsenic	ug/L	MW1	07/17/2000	ND	10.0000
Arsenic	ug/L	MW1	10/17/2000	ND	10.0000
Arsenic	ug/L	MW1	01/16/2001	ND	10.0000
Arsenic	ug/L	MW1	04/18/2001	ND	10.0000
Arsenic	ug/L	MW1	07/16/2001	ND	10.0000
Arsenic	ug/L	MW1	10/17/2001	ND	10.0000
Arsenic	ug/L	MW1	01/15/2002	ND	10.0000
Arsenic	ug/L	MW1	04/16/2002	ND	10.0000
Arsenic	ug/L	MW1	07/16/2002	ND	10.0000
Arsenic	ug/L	MW1	10/22/2002	ND	10.0000
Arsenic	ug/L	MW1	01/20/2003	ND	10.0000
Arsenic	ug/L	MW1	04/16/2003	ND	10.0000
Arsenic	ug/L	MW1	07/14/2003	ND	10.0000
Arsenic	ug/L	MW1	10/21/2003	ND	10.0000
Arsenic	ug/L	MW1	01/19/2004	ND	10.0000
Arsenic	ug/L	MW1	01/26/2005	ND	10.0000
Arsenic	ug/L	MW1	01/12/2006	ND	10.0000
Arsenic	ug/L	MW1	02/07/2007	ND	10.0000
Arsenic	ug/L	MW126T	11/08/1995	ND	10.0000
Arsenic	ug/L	MW126T	02/29/1996	ND	10.0000
Arsenic	ug/L	MW126T	04/23/1996	ND	10.0000
Arsenic	ug/L	MW126T	07/22/1996	ND	10.0000
Arsenic	ug/L	MW126T	10/21/1996	ND	10.0000

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	
Arsenic	ug/L	MW126T	01/20/1997	ND	10.0000	
Arsenic	ug/L	MW126T	04/23/1997	ND	10.0000	
Arsenic	ug/L	MW126T	07/15/1997	ND	10.0000	
Arsenic	ug/L	MW126T	10/16/1997	ND	10.0000	
Arsenic	ug/L	MW126T	01/19/1998	ND	10.0000	
Arsenic	ug/L	MW126T	04/16/1998	ND	10.0000	
Arsenic	ug/L	MW126T	07/16/1998	ND	10.0000	
Arsenic	ug/L	MW126T	10/15/1998	ND	10.0000	
Arsenic	ug/L	MW126T	01/18/1999	ND	10.0000	
Arsenic	ug/L	MW126T	04/21/1999	ND	10.0000	
Arsenic	ug/L	MW126T	07/19/1999	ND	10.0000	
Arsenic	ug/L	MW126T	10/20/1999	ND	10.0000	
Arsenic	ug/L	MW126T	01/17/2000	ND	10.0000	
Arsenic	ug/L	MW126T	04/19/2000	ND	10.0000	
Arsenic	ug/L	MW126T	07/17/2000	ND	10.0000	
Arsenic	ug/L	MW126T	10/18/2000	ND	10.0000	
Arsenic	ug/L	MW126T	01/18/2001	ND	10.0000	
Arsenic	ug/L	MW126T	04/19/2001	ND	10.0000	
Arsenic	ug/L	MW126T	07/16/2001	ND	10.0000	
Arsenic	ug/L	MW126T	10/18/2001	ND	10.0000	
Arsenic	ug/L	MW126T	01/17/2002	ND	10.0000	
Arsenic	ug/L	MW126T	04/18/2002	ND	10.0000	
Arsenic	ug/L	MW126T	07/17/2002	ND	10.0000	
Arsenic	ug/L	MW126T	10/24/2002	ND	10.0000	
Arsenic	ug/L	MW126T	01/20/2003	ND	10.0000	
Arsenic	ug/L	MW126T	04/21/2003	ND	10.0000	
Arsenic	ug/L	MW126T	07/16/2003	ND	10.0000	
Arsenic	ug/L	MW126T	10/23/2003	ND	10.0000	
Arsenic	ug/L	MW126T	01/19/2004	ND	10.0000	
Arsenic	ug/L	MW126T	01/26/2005	ND	10.0000	
Arsenic	ug/L	MW126T	01/16/2006	ND	10.0000	
Arsenic	ug/L	MW126T	02/09/2007	ND	10.0000	
Arsenic	ug/L	MW126T	02/22/2008	ND	10.0000	
Arsenic	ug/L	MW126T	02/06/2009	ND	10.0000	
Arsenic	ug/L	MW126T	02/10/2010	ND	5.0000	
Arsenic	ug/L	MW126T	02/17/2011	ND	10.0000	
Arsenic	ug/L	MW126T	03/09/2012	ND	10.0000	
Arsenic	ug/L	MW126T	02/15/2013	ND	10.0000	
Arsenic	ug/L	MW126T	02/06/2014	ND	10.0000	
Arsenic	ug/L	MW126T	02/05/2015	ND	10.0000	
Arsenic	ug/L	MW126T	02/10/2016	ND	15.0000	
Arsenic	ug/L	MW126T	02/02/2017	ND	15.0000	
Arsenic	ug/L	MW92SR	07/25/1995	ND	10.0000	
Arsenic	ug/L	MW92SR	10/25/1995	ND	10.0000	
Arsenic	ug/L	MW92SR	01/17/1996	ND	10.0000	
Arsenic	ug/L	MW92SR	04/23/1996	ND	10.0000	
Arsenic	ug/L	MW92SR	07/18/1996	ND	10.0000	
Arsenic	ug/L	MW92SR	10/22/1996	ND	10.0000	
Arsenic	ug/L	MW92SR	01/20/1997	ND	10.0000	
Arsenic	ug/L	MW92SR	04/22/1997	ND	10.0000	
Arsenic	ug/L	MW92SR	07/16/1997	ND	10.0000	
Arsenic	ug/L	MW92SR	10/21/1997	ND	10.0000	
Arsenic	ug/L	MW92SR	01/21/1998	ND	10.0000	
Arsenic	ug/L	MW92SR	04/21/1998	ND	10.0000	
Arsenic	ug/L	MW92SR	07/16/1998	ND	10.0000	
Arsenic	ug/L	MW92SR	10/20/1998	ND	10.0000	
Arsenic	ug/L	MW92SR	01/19/1999	ND	10.0000	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result
Arsenic	ug/L	MW92SR	04/21/1999	ND	10.0000
Arsenic	ug/L	MW92SR	07/20/1999	ND	10.0000
Arsenic	ug/L	MW92SR	10/19/1999	ND	10.0000
Arsenic	ug/L	MW92SR	01/18/2000	ND	10.0000
Arsenic	ug/L	MW92SR	04/19/2000	ND	10.0000
Arsenic	ug/L	MW92SR	07/18/2000	ND	10.0000
Arsenic	ug/L	MW92SR	10/18/2000	ND	10.0000
Arsenic	ug/L	MW92SR	01/17/2001	ND	10.0000
Arsenic	ug/L	MW92SR	04/23/2001	ND	10.0000
Arsenic	ug/L	MW92SR	07/17/2001	ND	10.0000
Arsenic	ug/L	MW92SR	10/22/2001	ND	10.0000
Arsenic	ug/L	MW92SR	01/16/2002	ND	10.0000
Arsenic	ug/L	MW92SR	04/22/2002	ND	10.0000
Arsenic	ug/L	MW92SR	07/17/2002	ND	10.0000
Arsenic	ug/L	MW92SR	10/24/2002	ND	10.0000
Arsenic	ug/L	MW92SR	01/20/2003	ND	10.0000
Arsenic	ug/L	MW92SR	04/21/2003	ND	10.0000
Arsenic	ug/L	MW92SR	07/16/2003	ND	10.0000
Arsenic	ug/L	MW92SR	10/23/2003	ND	10.0000
Arsenic	ug/L	MW92SR	01/20/2004	ND	10.0000
Arsenic	ug/L	MW92SR	01/27/2005	ND	10.0000
Arsenic	ug/L	MW92SR	01/13/2006	ND	10.0000
Arsenic	ug/L	MW92SR	02/08/2007	ND	10.0000
Arsenic	ug/L	MW92SR	02/21/2008	ND	10.0000
Arsenic	ug/L	MW92SR	02/04/2009	ND	10.0000
Arsenic	ug/L	MW92SR	02/08/2010	ND	5.0000
Arsenic	ug/L	MW92SR	02/15/2011	ND	10.0000
Arsenic	ug/L	MW92SR	03/08/2012	ND	10.0000
Arsenic	ug/L	MW92SR	02/14/2013	ND	10.0000
Arsenic	ug/L	MW92SR	02/06/2014	ND	10.0000
Arsenic	ug/L	MW92SR	02/04/2015	ND	10.0000
Arsenic	ug/L	MW92SR	01/29/2016	ND	15.0000
Arsenic	ug/L	MW92SR	01/27/2017	ND	15.0000
Arsenic	ug/L	MW93PR	07/25/1995	ND	10.0000
Arsenic	ug/L	MW93PR	10/25/1995	ND	10.0000
Arsenic	ug/L	MW93PR	01/17/1996	ND	10.0000
Arsenic	ug/L	MW93PR	04/23/1996	ND	10.0000
Arsenic	ug/L	MW93PR	07/18/1996	ND	10.0000
Arsenic	ug/L	MW93PR	10/22/1996	ND	10.0000
Arsenic	ug/L	MW93PR	01/20/1997	ND	10.0000
Arsenic	ug/L	MW93PR	04/22/1997	ND	10.0000
Arsenic	ug/L	MW93PR	07/16/1997	ND	10.0000
Arsenic	ug/L	MW93PR	10/23/1997	ND	10.0000
Arsenic	ug/L	MW93PR	01/21/1998	ND	10.0000
Arsenic	ug/L	MW93PR	04/21/1998	ND	10.0000
Arsenic	ug/L	MW93PR	07/16/1998	ND	10.0000
Arsenic	ug/L	MW93PR	10/20/1998	ND	10.0000
Arsenic	ug/L	MW93PR	01/19/1999	ND	10.0000
Arsenic	ug/L	MW93PR	04/21/1999	ND	10.0000
Arsenic	ug/L	MW93PR	07/20/1999	ND	10.0000
Arsenic	ug/L	MW93PR	10/19/1999	ND	10.0000
Arsenic	ug/L	MW93PR	01/18/2000		5.2200
Arsenic	ug/L	MW93PR	04/19/2000	ND	10.0000
Arsenic	ug/L	MW93PR	07/18/2000	ND	10.0000
Arsenic	ug/L	MW93PR	10/18/2000	ND	10.0000
Arsenic	ug/L	MW93PR	01/17/2001	ND	10.0000
Arsenic	ug/L	MW93PR	04/23/2001	ND	10.0000

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	
Arsenic	ug/L	MW93PR	07/17/2001	ND	10.0000	
Arsenic	ug/L	MW93PR	10/22/2001	ND	10.0000	
Arsenic	ug/L	MW93PR	01/16/2002	ND	10.0000	
Arsenic	ug/L	MW93PR	04/22/2002	ND	10.0000	
Arsenic	ug/L	MW93PR	07/17/2002	ND	10.0000	
Arsenic	ug/L	MW93PR	10/24/2002	ND	10.0000	
Arsenic	ug/L	MW93PR	01/20/2003	ND	10.0000	
Arsenic	ug/L	MW93PR	04/21/2003	ND	10.0000	
Arsenic	ug/L	MW93PR	07/16/2003	ND	10.0000	
Arsenic	ug/L	MW93PR	10/23/2003	ND	10.0000	
Arsenic	ug/L	MW93PR	04/20/2004	ND	10.0000	
Arsenic	ug/L	MW93PR	04/29/2005	ND	15.0000	
Arsenic	ug/L	MW93PR	05/11/2006	ND	10.0000	
Arsenic	ug/L	MW93PR	05/02/2007	ND	10.0000	
Arsenic	ug/L	MW93PR	04/30/2008	ND	10.0000	
Arsenic	ug/L	MW93PR	05/06/2009	ND	10.0000	
Arsenic	ug/L	MW93PR	05/12/2010	ND	10.0000	
Arsenic	ug/L	MW93PR	05/12/2011	ND	10.0000	
Arsenic	ug/L	MW93PR	05/11/2012	ND	10.0000	
Arsenic	ug/L	MW93PR	05/09/2013	ND	10.0000	
Arsenic	ug/L	MW93PR	04/30/2014	ND	10.0000	
Arsenic	ug/L	MW93PR	05/06/2015	ND	10.0000	
Arsenic	ug/L	MW93PR	05/03/2016	ND	15.0000	
Arsenic	ug/L	MW93PR	04/27/2017	ND	15.0000	
Arsenic	ug/L	MW94PR	07/26/1995	ND	10.0000	
Arsenic	ug/L	MW94PR	10/25/1995	ND	10.0000	
Arsenic	ug/L	MW94PR	01/17/1996	ND	10.0000	
Arsenic	ug/L	MW94PR	04/23/1996	ND	10.0000	
Arsenic	ug/L	MW94PR	07/18/1996	ND	10.0000	
Arsenic	ug/L	MW94PR	10/22/1996	ND	10.0000	
Arsenic	ug/L	MW94PR	01/20/1997	ND	10.0000	
Arsenic	ug/L	MW94PR	04/23/1997	ND	10.0000	
Arsenic	ug/L	MW94PR	07/15/1997	ND	10.0000	
Arsenic	ug/L	MW94PR	10/21/1997	ND	10.0000	
Arsenic	ug/L	MW94PR	01/15/1998	ND	10.0000	
Arsenic	ug/L	MW94PR	04/22/1998	ND	10.0000	
Arsenic	ug/L	MW94PR	07/16/1998	ND	10.0000	
Arsenic	ug/L	MW94PR	10/21/1998	ND	10.0000	
Arsenic	ug/L	MW94PR	01/18/1999	ND	10.0000	
Arsenic	ug/L	MW94PR	04/21/1999	ND	10.0000	
Arsenic	ug/L	MW94PR	07/19/1999	ND	10.0000	
Arsenic	ug/L	MW94PR	10/19/1999	ND	10.0000	
Arsenic	ug/L	MW94PR	01/17/2000	ND	10.0000	
Arsenic	ug/L	MW94PR	04/19/2000	ND	10.0000	
Arsenic	ug/L	MW94PR	07/17/2000	ND	10.0000	
Arsenic	ug/L	MW94PR	10/18/2000	ND	10.0000	
Arsenic	ug/L	MW94PR	01/18/2001	ND	10.0000	
Arsenic	ug/L	MW94PR	04/19/2001	ND	10.0000	
Arsenic	ug/L	MW94PR	07/16/2001	ND	10.0000	
Arsenic	ug/L	MW94PR	10/18/2001	ND	10.0000	
Arsenic	ug/L	MW94PR	01/17/2002	ND	10.0000	
Arsenic	ug/L	MW94PR	04/18/2002	ND	10.0000	
Arsenic	ug/L	MW94PR	07/17/2002	ND	10.0000	
Arsenic	ug/L	MW94PR	10/24/2002	ND	10.0000	
Arsenic	ug/L	MW94PR	01/20/2003	ND	10.0000	
Arsenic	ug/L	MW94PR	04/21/2003	ND	10.0000	
Arsenic	ug/L	MW94PR	07/16/2003	ND	10.0000	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	
Arsenic	ug/L	MW94PR	10/23/2003	ND	10.0000	
Arsenic	ug/L	MW94PR	04/20/2004	ND	10.0000	
Arsenic	ug/L	MW94PR	04/29/2005	ND	15.0000	
Arsenic	ug/L	MW94PR	05/11/2006	ND	10.0000	
Arsenic	ug/L	MW94PR	05/03/2007	ND	10.0000	
Arsenic	ug/L	MW94PR	05/01/2008	ND	10.0000	
Arsenic	ug/L	MW94PR	05/07/2009	ND	10.0000	
Arsenic	ug/L	MW94PR	05/14/2010	ND	10.0000	
Arsenic	ug/L	MW94PR	05/13/2011	ND	10.0000	
Arsenic	ug/L	MW94PR	05/11/2012	ND	10.0000	
Arsenic	ug/L	MW94PR	05/09/2013	ND	10.0000	
Arsenic	ug/L	MW94PR	04/30/2014	ND	10.0000	
Arsenic	ug/L	MW94PR	05/06/2015	ND	10.0000	
Arsenic	ug/L	MW94PR	05/03/2016	ND	15.0000	
Arsenic	ug/L	MW94PR	04/28/2017	ND	15.0000	
Arsenic	ug/L	MW95P	02/10/1993	ND	10.0000	
Arsenic	ug/L	MW95P	04/14/1993	ND	10.0000	
Arsenic	ug/L	MW95P	08/10/1993	ND	10.0000	
Arsenic	ug/L	MW95P	10/13/1993	ND	10.0000	
Arsenic	ug/L	MW95P	02/14/1994	ND	10.0000	
Arsenic	ug/L	MW95P	05/09/1994	ND	10.0000	
Arsenic	ug/L	MW95P	07/20/1994	ND	10.0000	
Arsenic	ug/L	MW95P	10/20/1994	ND	10.0000	
Arsenic	ug/L	MW95P	01/17/1995	ND	10.0000	
Arsenic	ug/L	MW95P	04/24/1995	ND	10.0000	
Arsenic	ug/L	MW95P	07/25/1995	ND	10.0000	
Arsenic	ug/L	MW95P	10/23/1995	ND	10.0000	
Arsenic	ug/L	MW95P	01/23/1996	ND	10.0000	
Arsenic	ug/L	MW95P	04/15/1996	ND	10.0000	
Arsenic	ug/L	MW95P	07/18/1996	ND	10.0000	
Arsenic	ug/L	MW95P	10/22/1996	ND	10.0000	
Arsenic	ug/L	MW95P	01/20/1997	ND	10.0000	
Arsenic	ug/L	MW95P	04/22/1997	ND	10.0000	
Arsenic	ug/L	MW95P	07/16/1997	ND	10.0000	
Arsenic	ug/L	MW95P	10/16/1997	ND	10.0000	
Arsenic	ug/L	MW95P	01/15/1998	ND	10.0000	
Arsenic	ug/L	MW95P	04/21/1998	ND	10.0000	
Arsenic	ug/L	MW95P	07/16/1998	ND	10.0000	
Arsenic	ug/L	MW95P	10/19/1998	ND	10.0000	
Arsenic	ug/L	MW95P	01/19/1999	ND	10.0000	
Arsenic	ug/L	MW95P	04/21/1999	ND	10.0000	
Arsenic	ug/L	MW95P	07/20/1999	ND	10.0000	
Arsenic	ug/L	MW95P	10/19/1999	ND	10.0000	
Arsenic	ug/L	MW95P	01/18/2000	ND	10.0000	
Arsenic	ug/L	MW95P	04/19/2000	ND	10.0000	
Arsenic	ug/L	MW95P	07/18/2000	ND	10.0000	
Arsenic	ug/L	MW95P	10/18/2000	ND	10.0000	
Arsenic	ug/L	MW95P	01/17/2001	ND	10.0000	
Arsenic	ug/L	MW95P	04/23/2001	ND	10.0000	
Arsenic	ug/L	MW95P	07/17/2001	ND	10.0000	
Arsenic	ug/L	MW95P	10/22/2001	ND	10.0000	
Arsenic	ug/L	MW95P	01/16/2002	ND	10.0000	
Arsenic	ug/L	MW95P	04/22/2002	ND	10.0000	
Arsenic	ug/L	MW95P	07/17/2002	ND	10.0000	
Arsenic	ug/L	MW95P	10/24/2002	ND	10.0000	
Arsenic	ug/L	MW95P	01/20/2003	ND	10.0000	
Arsenic	ug/L	MW95P	04/21/2003	ND	10.0000	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	
Arsenic	ug/L	MW95P	07/16/2003	ND	10.0000	
Arsenic	ug/L	MW95P	10/23/2003	ND	10.0000	
Arsenic	ug/L	MW95P	04/20/2004	ND	10.0000	
Arsenic	ug/L	MW95P	04/29/2005	ND	15.0000	
Arsenic	ug/L	MW95P	05/11/2006	ND	10.0000	
Arsenic	ug/L	MW95P	05/02/2007	ND	10.0000	
Arsenic	ug/L	MW95P	04/30/2008	ND	10.0000	
Arsenic	ug/L	MW95P	05/06/2009	ND	10.0000	
Arsenic	ug/L	MW95P	05/12/2010	ND	10.0000	
Arsenic	ug/L	MW95P	05/11/2011	ND	10.0000	
Arsenic	ug/L	MW95P	05/11/2012	ND	10.0000	
Arsenic	ug/L	MW95P	05/09/2013	ND	10.0000	
Arsenic	ug/L	MW95P	04/23/2014	ND	10.0000	
Arsenic	ug/L	MW95P	04/30/2015	ND	10.0000	
Arsenic	ug/L	MW95P	04/28/2016	ND	15.0000	
Arsenic	ug/L	MW95P	04/20/2017	ND	15.0000	
Arsenic	ug/L	MW96T	04/14/1993	ND	10.0000	
Arsenic	ug/L	MW96T	08/11/1993	ND	10.0000	
Arsenic	ug/L	MW96T	10/13/1993	ND	10.0000	
Arsenic	ug/L	MW96T	01/04/1994	ND	10.0000	
Arsenic	ug/L	MW96T	04/05/1994	ND	10.0000	
Arsenic	ug/L	MW96T	07/19/1994	ND	10.0000	
Arsenic	ug/L	MW96T	10/20/1994	ND	10.0000	
Arsenic	ug/L	MW96T	01/17/1995	ND	10.0000	
Arsenic	ug/L	MW96T	04/24/1995	ND	10.0000	
Arsenic	ug/L	MW96T	07/25/1995	ND	10.0000	
Arsenic	ug/L	MW96T	10/11/1995	ND	10.0000	
Arsenic	ug/L	MW96T	01/17/1996	ND	10.0000	
Arsenic	ug/L	MW96T	04/18/1996	ND	10.0000	
Arsenic	ug/L	MW96T	07/18/1996	ND	10.0000	
Arsenic	ug/L	MW96T	10/22/1996	ND	10.0000	
Arsenic	ug/L	MW96T	01/21/1997	ND	10.0000	
Arsenic	ug/L	MW96T	04/22/1997	ND	10.0000	
Arsenic	ug/L	MW96T	07/15/1997	ND	10.0000	
Arsenic	ug/L	MW96T	10/21/1997	ND	10.0000	
Arsenic	ug/L	MW96T	01/15/1998	ND	10.0000	
Arsenic	ug/L	MW96T	04/22/1998	ND	10.0000	
Arsenic	ug/L	MW96T	07/16/1998	ND	10.0000	
Arsenic	ug/L	MW96T	10/20/1998	ND	10.0000	
Arsenic	ug/L	MW96T	01/20/1999	ND	10.0000	
Arsenic	ug/L	MW96T	04/21/1999	ND	10.0000	
Arsenic	ug/L	MW96T	07/20/1999	ND	10.0000	
Arsenic	ug/L	MW96T	10/19/1999	ND	10.0000	
Arsenic	ug/L	MW96T	01/19/2000	ND	10.0000	
Arsenic	ug/L	MW96T	04/19/2000	ND	10.0000	
Arsenic	ug/L	MW96T	07/19/2000	ND	10.0000	
Arsenic	ug/L	MW96T	10/18/2000	ND	10.0000	
Arsenic	ug/L	MW96T	01/17/2001	ND	10.0000	
Arsenic	ug/L	MW96T	04/19/2001	ND	10.0000	
Arsenic	ug/L	MW96T	07/18/2001	ND	10.0000	
Arsenic	ug/L	MW96T	10/18/2001	ND	10.0000	
Arsenic	ug/L	MW96T	01/16/2002	ND	10.0000	
Arsenic	ug/L	MW96T	04/18/2002	ND	10.0000	
Arsenic	ug/L	MW96T	07/18/2002	ND	10.0000	
Arsenic	ug/L	MW96T	10/24/2002	ND	10.0000	
Arsenic	ug/L	MW96T	01/21/2003	ND	10.0000	
Arsenic	ug/L	MW96T	04/21/2003	ND	10.0000	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result
Arsenic	ug/L	MW96T	07/16/2003	ND	10.0000
Arsenic	ug/L	MW96T	10/23/2003	ND	10.0000
Arsenic	ug/L	MW96T	01/20/2004	ND	10.0000
Arsenic	ug/L	MW96T	01/27/2005	ND	10.0000
Arsenic	ug/L	MW96T	01/17/2006	ND	10.0000
Arsenic	ug/L	MW96T	02/08/2007	ND	10.0000
Arsenic	ug/L	MW96T	02/22/2008	ND	10.0000
Arsenic	ug/L	MW96T	02/06/2009	ND	10.0000
Arsenic	ug/L	MW96T	02/09/2010	ND	5.0000
Arsenic	ug/L	MW96T	02/17/2011	ND	10.0000
Arsenic	ug/L	MW96T	03/09/2012	ND	10.0000
Arsenic	ug/L	MW96T	02/19/2013	ND	10.0000
Arsenic	ug/L	MW96T	02/07/2014	ND	10.0000
Arsenic	ug/L	MW96T	02/04/2015	ND	10.0000
Arsenic	ug/L	MW96T	02/10/2016	ND	15.0000
Arsenic	ug/L	MW96T	02/01/2017	ND	15.0000
Arsenic	ug/L	MW97T	02/10/1993	ND	10.0000
Arsenic	ug/L	MW97T	04/14/1993	ND	10.0000
Arsenic	ug/L	MW97T	08/10/1993	ND	10.0000
Arsenic	ug/L	MW97T	10/13/1993	ND	10.0000
Arsenic	ug/L	MW97T	02/16/1994	ND	10.0000
Arsenic	ug/L	MW97T	05/09/1994	ND	10.0000
Arsenic	ug/L	MW97T	07/20/1994	ND	10.0000
Arsenic	ug/L	MW97T	10/24/1994	ND	10.0000
Arsenic	ug/L	MW97T	01/17/1995	ND	10.0000
Arsenic	ug/L	MW97T	04/07/1995	ND	10.0000
Arsenic	ug/L	MW97T	07/25/1995	ND	10.0000
Arsenic	ug/L	MW98TR	07/25/1995	ND	10.0000
Arsenic	ug/L	MW98TR	10/25/1995	ND	10.0000
Arsenic	ug/L	MW98TR	01/17/1996	ND	10.0000
Arsenic	ug/L	MW98TR	04/23/1996	ND	10.0000
Arsenic	ug/L	MW98TR	07/18/1996	ND	10.0000
Arsenic	ug/L	MW98TR	10/22/1996	ND	10.0000
Arsenic	ug/L	MW98TR	01/21/1997	ND	10.0000
Arsenic	ug/L	MW98TR	04/22/1997	ND	10.0000
Arsenic	ug/L	MW98TR	07/15/1997	ND	10.0000
Arsenic	ug/L	MW98TR	10/21/1997	ND	10.0000
Arsenic	ug/L	MW98TR	01/20/1998	ND	10.0000
Arsenic	ug/L	MW98TR	07/16/1998	ND	10.0000
Arsenic	ug/L	MW98TR	10/20/1998	ND	10.0000
Arsenic	ug/L	MW98TR	01/20/1999	ND	10.0000
Arsenic	ug/L	MW98TR	04/21/1999	ND	10.0000
Arsenic	ug/L	MW98TR	07/20/1999	ND	10.0000
Arsenic	ug/L	MW98TR	10/19/1999	ND	10.0000
Arsenic	ug/L	MW98TR	01/19/2000	ND	10.0000
Arsenic	ug/L	MW98TR	04/19/2000	ND	10.0000
Arsenic	ug/L	MW98TR	07/19/2000	ND	10.0000
Arsenic	ug/L	MW98TR	10/18/2000	ND	10.0000
Arsenic	ug/L	MW98TR	01/17/2001	ND	10.0000
Arsenic	ug/L	MW98TR	04/19/2001	ND	10.0000
Arsenic	ug/L	MW98TR	07/18/2001	ND	10.0000
Arsenic	ug/L	MW98TR	10/18/2001	ND	10.0000
Arsenic	ug/L	MW98TR	01/16/2002	ND	10.0000
Arsenic	ug/L	MW98TR	04/18/2002	ND	10.0000
Arsenic	ug/L	MW98TR	07/18/2002	ND	10.0000
Arsenic	ug/L	MW98TR	10/24/2002	ND	10.0000
Arsenic	ug/L	MW98TR	01/21/2003	ND	10.0000

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result
Arsenic	ug/L	MW98TR	04/21/2003	ND	10.0000
Arsenic	ug/L	MW98TR	07/16/2003	ND	10.0000
Arsenic	ug/L	MW98TR	10/23/2003	ND	10.0000
Arsenic	ug/L	MW98TR	01/20/2004	ND	10.0000
Arsenic	ug/L	MW98TR	01/27/2005	ND	10.0000
Arsenic	ug/L	MW98TR	01/17/2006	ND	10.0000
Arsenic	ug/L	MW98TR	02/08/2007	ND	10.0000
Arsenic	ug/L	MW98TR	02/22/2008	ND	10.0000
Arsenic	ug/L	MW98TR	02/06/2009	ND	10.0000
Arsenic	ug/L	MW98TR	02/09/2010	ND	5.0000
Arsenic	ug/L	MW98TR	02/17/2011	ND	10.0000
Arsenic	ug/L	MW98TR	03/09/2012	ND	10.0000
Arsenic	ug/L	MW98TR	02/15/2013	ND	10.0000
Arsenic	ug/L	MW98TR	02/06/2014	ND	10.0000
Arsenic	ug/L	MW98TR	02/04/2015	ND	10.0000
Arsenic	ug/L	MW98TR	02/10/2016	ND	15.0000
Arsenic	ug/L	MW98TR	02/01/2017	ND	15.0000
Arsenic	ug/L	PSDL17A	01/05/1993	ND	10.0000
Arsenic	ug/L	PSDL17A	03/09/1993	ND	10.0000
Arsenic	ug/L	PSDL17A	05/06/1993	ND	10.0000
Arsenic	ug/L	PSDL17A	06/09/1993	ND	10.0000
Arsenic	ug/L	PSDL17A	07/08/1993	ND	10.0000
Arsenic	ug/L	PSDL17A	09/02/1993	ND	10.0000
Arsenic	ug/L	PSDL17A	11/03/1993	ND	10.0000
Arsenic	ug/L	PSDL17A	12/08/1993	ND	10.0000
Arsenic	ug/L	PSDL17A	02/15/1994	ND	10.0000
Arsenic	ug/L	PSDL17A	05/09/1994	ND	10.0000
Arsenic	ug/L	PSDL17A	07/06/1994	ND	10.0000
Arsenic	ug/L	PSDL17A	10/20/1994	ND	10.0000
Arsenic	ug/L	PSDL17A	01/09/1995	ND	10.0000
Arsenic	ug/L	PSDL17A	04/07/1995	ND	10.0000
Arsenic	ug/L	PSDL17A	07/17/1995	ND	10.0000
Arsenic	ug/L	PSDL17A	10/11/1995	ND	10.0000
Arsenic	ug/L	PSDL17A	01/16/1996	ND	10.0000
Arsenic	ug/L	PSDL17A	04/10/1996	ND	10.0000
Arsenic	ug/L	PSDL17A	07/18/1996	ND	10.0000
Arsenic	ug/L	PSDL17A	10/22/1996	ND	10.0000
Arsenic	ug/L	PSDL17A	01/20/1997	ND	10.0000
Arsenic	ug/L	PSDL17A	04/22/1997	ND	10.0000
Arsenic	ug/L	PSDL17A	07/16/1997	ND	10.0000
Arsenic	ug/L	PSDL17A	10/16/1997	ND	10.0000
Arsenic	ug/L	PSDL17A	01/20/1998	ND	10.0000
Arsenic	ug/L	PSDL17A	04/22/1998	ND	10.0000
Arsenic	ug/L	PSDL17A	07/16/1998	ND	10.0000
Arsenic	ug/L	PSDL17A	10/19/1998	ND	10.0000
Arsenic	ug/L	PSDL17A	01/19/1999	ND	10.0000
Arsenic	ug/L	PSDL17A	04/20/1999	ND	10.0000
Arsenic	ug/L	PSDL17A	07/20/1999	ND	10.0000
Arsenic	ug/L	PSDL17A	10/18/1999	ND	10.0000
Arsenic	ug/L	PSDL17A	01/18/2000	ND	10.0000
Arsenic	ug/L	PSDL17A	04/18/2000	ND	10.0000
Arsenic	ug/L	PSDL17A	07/18/2000	ND	10.0000
Arsenic	ug/L	PSDL17A	10/17/2000	ND	10.0000
Arsenic	ug/L	PSDL17A	01/16/2001	ND	10.0000
Arsenic	ug/L	PSDL17A	04/18/2001	ND	10.0000
Arsenic	ug/L	PSDL17A	07/17/2001	ND	10.0000
Arsenic	ug/L	PSDL17A	10/17/2001	ND	10.0000

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result
Arsenic	ug/L	PSDL17A	01/16/2002	ND	10.0000
Arsenic	ug/L	PSDL17A	04/16/2002	ND	10.0000
Arsenic	ug/L	PSDL17A	07/17/2002	ND	10.0000
Arsenic	ug/L	PSDL17A	10/22/2002	ND	10.0000
Arsenic	ug/L	PSDL17A	01/20/2003	ND	10.0000
Arsenic	ug/L	PSDL17A	04/21/2003	ND	10.0000
Arsenic	ug/L	PSDL17A	07/15/2003	ND	10.0000
Arsenic	ug/L	PSDL17A	10/23/2003	ND	10.0000
Arsenic	ug/L	PSDL17A	01/19/2004	ND	10.0000
Arsenic	ug/L	PSDL17A	01/26/2005	ND	10.0000
Arsenic	ug/L	PSDL17A	01/13/2006	ND	10.0000
Arsenic	ug/L	PSDL17A	02/07/2007	ND	10.0000
Arsenic	ug/L	PSDL17A	02/21/2008	ND	10.0000
Arsenic	ug/L	PSDL17A	02/05/2009	ND	10.0000
Arsenic	ug/L	PSDL17A	02/09/2010	ND	5.0000
Arsenic	ug/L	PSDL17A	02/15/2011	ND	10.0000
Arsenic	ug/L	PSDL17A	03/08/2012	ND	10.0000
Arsenic	ug/L	PSDL17A	02/14/2013	ND	10.0000
Arsenic	ug/L	PSDL17A	02/06/2014	ND	10.0000
Arsenic	ug/L	PSDL17A	02/04/2015	ND	10.0000
Arsenic	ug/L	PSDL17A	02/05/2016	ND	15.0000
Arsenic	ug/L	PSDL17A	01/31/2017	ND	15.0000
Arsenic	ug/L	UBC25	02/09/1993	ND	10.0000
Arsenic	ug/L	UBC25	04/14/1993	ND	10.0000
Arsenic	ug/L	UBC25	08/05/1993	ND	10.0000
Arsenic	ug/L	UBC25	10/12/1993	ND	10.0000
Arsenic	ug/L	UBC25	02/14/1994	ND	10.0000
Arsenic	ug/L	UBC25	05/09/1994	ND	10.0000
Arsenic	ug/L	UBC25	10/20/1994	ND	10.0000
Arsenic	ug/L	UBC25	04/20/1995	ND	10.0000
Arsenic	ug/L	UBC25	10/25/1995	ND	10.0000
Arsenic	ug/L	UBC25	04/23/1996	ND	10.0000
Arsenic	ug/L	UBC25	10/22/1996	ND	10.0000
Arsenic	ug/L	UBC25	04/22/1997	ND	10.0000
Arsenic	ug/L	UBC25	10/21/1997	ND	10.0000
Arsenic	ug/L	UBC25	04/21/1998	ND	10.0000
Arsenic	ug/L	UBC25	10/20/1998	ND	10.0000
Arsenic	ug/L	UBC25	04/21/1999	ND	10.0000
Arsenic	ug/L	UBC25	10/19/1999	ND	10.0000
Arsenic	ug/L	UBC25	04/19/2000	ND	10.0000
Arsenic	ug/L	UBC25	07/19/2000	ND	10.0000
Arsenic	ug/L	UBC25	10/18/2000	ND	10.0000
Arsenic	ug/L	UBC25	04/23/2001	ND	10.0000
Arsenic	ug/L	UBC25	10/22/2001	ND	10.0000
Arsenic	ug/L	UBC25	04/22/2002	ND	10.0000
Arsenic	ug/L	UBC25	10/24/2002	ND	10.0000
Arsenic	ug/L	UBC25	04/21/2003	ND	10.0000
Arsenic	ug/L	UBC25	10/23/2003	ND	10.0000
Arsenic	ug/L	UBC25	07/20/2004	ND	10.0000
Arsenic	ug/L	UBC25	07/28/2005	ND	10.0000
Arsenic	ug/L	UBC25	08/09/2006	ND	10.0000
Arsenic	ug/L	UBC25	08/10/2007	ND	10.0000
Arsenic	ug/L	UBC25	08/08/2008	ND	10.0000
Arsenic	ug/L	UBC25	07/31/2009	ND	10.0000
Arsenic	ug/L	UBC25	08/06/2010	ND	10.0000
Arsenic	ug/L	UBC25	08/08/2011	ND	10.0000
Arsenic	ug/L	UBC25	08/13/2012	ND	10.0000

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result
Arsenic	ug/L	UBC25	08/08/2013	ND	10.0000
Arsenic	ug/L	UBC25	07/30/2014	ND	10.0000
Arsenic	ug/L	UBC25	08/17/2015	ND	10.0000
Arsenic	ug/L	UBC25	08/19/2016	ND	15.0000
Arsenic	ug/L	UBC25	07/27/2017	ND	15.0000
Arsenic	ug/L	UBC27	02/09/1993	ND	10.0000
Arsenic	ug/L	UBC27	04/14/1993	ND	10.0000
Arsenic	ug/L	UBC27	08/11/1993	ND	10.0000
Arsenic	ug/L	UBC27	10/13/1993	ND	10.0000
Arsenic	ug/L	UBC27	02/14/1994	ND	10.0000
Arsenic	ug/L	UBC27	05/11/1994	ND	10.0000
Arsenic	ug/L	UBC27	10/20/1994	ND	10.0000
Arsenic	ug/L	UBC27	04/20/1995	ND	10.0000
Arsenic	ug/L	UBC27	10/25/1995	ND	10.0000
Arsenic	ug/L	UBC27	04/23/1996	ND	10.0000
Arsenic	ug/L	UBC27	10/22/1996	ND	10.0000
Arsenic	ug/L	UBC27	04/22/1997	ND	10.0000
Arsenic	ug/L	UBC27	10/23/1997	ND	10.0000
Arsenic	ug/L	UBC27	04/21/1998	ND	10.0000
Arsenic	ug/L	UBC27	10/20/1998	ND	10.0000
Arsenic	ug/L	UBC27	04/21/1999	ND	10.0000
Arsenic	ug/L	UBC27	10/19/1999	ND	10.0000
Arsenic	ug/L	UBC27	04/19/2000	ND	10.0000
Arsenic	ug/L	UBC27	07/18/2000	ND	10.0000
Arsenic	ug/L	UBC27	10/18/2000	ND	10.0000
Arsenic	ug/L	UBC27	04/23/2001	ND	10.0000
Arsenic	ug/L	UBC27	10/22/2001	ND	10.0000
Arsenic	ug/L	UBC27	04/22/2002	ND	10.0000
Arsenic	ug/L	UBC27	10/24/2002	ND	10.0000
Arsenic	ug/L	UBC27	04/21/2003	ND	10.0000
Arsenic	ug/L	UBC27	10/23/2003	ND	10.0000
Arsenic	ug/L	UBC27	07/20/2004	ND	10.0000
Arsenic	ug/L	UBC27	07/28/2005	ND	10.0000
Arsenic	ug/L	UBC27	08/09/2006	ND	10.0000
Arsenic	ug/L	UBC27	08/10/2007	ND	10.0000
Arsenic	ug/L	UBC27	08/08/2008	ND	10.0000
Arsenic	ug/L	UBC27	07/31/2009	ND	10.0000
Arsenic	ug/L	UBC27	08/06/2010	ND	10.0000
Arsenic	ug/L	UBC27	08/08/2011	ND	10.0000
Arsenic	ug/L	UBC27	08/13/2012	ND	10.0000
Arsenic	ug/L	UBC27	08/08/2013	ND	10.0000
Arsenic	ug/L	UBC27	07/30/2014	ND	10.0000
Arsenic	ug/L	UBC27	08/17/2015	ND	10.0000
Arsenic	ug/L	UBC27	08/19/2016	ND	15.0000
Arsenic	ug/L	UBC27	07/27/2017	ND	15.0000
Arsenic	ug/L	UBC28AR	10/25/1995	ND	10.0000
Arsenic	ug/L	UBC28AR	04/18/1996	ND	10.0000
Arsenic	ug/L	UBC28AR	10/17/1996	ND	10.0000
Arsenic	ug/L	UBC28AR	04/22/1997	ND	10.0000
Arsenic	ug/L	UBC28AR	10/16/1997	ND	10.0000
Arsenic	ug/L	UBC28AR	04/21/1998	ND	10.0000
Arsenic	ug/L	UBC28AR	10/19/1998	ND	10.0000
Arsenic	ug/L	UBC28AR	04/21/1999	ND	10.0000
Arsenic	ug/L	UBC28AR	10/19/1999	ND	10.0000
Arsenic	ug/L	UBC28AR	04/19/2000	ND	10.0000
Arsenic	ug/L	UBC28AR	07/19/2000	ND	10.0000
Arsenic	ug/L	UBC28AR	10/18/2000	ND	10.0000

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result
Arsenic	ug/L	UBC28AR	04/23/2001	ND	10.0000
Arsenic	ug/L	UBC28AR	10/22/2001	ND	10.0000
Arsenic	ug/L	UBC28AR	04/22/2002	ND	10.0000
Arsenic	ug/L	UBC28AR	10/24/2002	ND	10.0000
Arsenic	ug/L	UBC28AR	04/21/2003	ND	10.0000
Arsenic	ug/L	UBC28AR	10/23/2003	ND	10.0000
Arsenic	ug/L	UBC28AR	07/20/2004	ND	10.0000
Arsenic	ug/L	UBC28AR	07/28/2005	ND	10.0000
Arsenic	ug/L	UBC28AR	08/09/2006	ND	10.0000
Arsenic	ug/L	UBC28AR	08/10/2007	ND	10.0000
Arsenic	ug/L	UBC28AR	08/08/2008	ND	10.0000
Arsenic	ug/L	UBC28AR	07/31/2009	ND	10.0000
Arsenic	ug/L	UBC28AR	08/06/2010	ND	10.0000
Arsenic	ug/L	UBC28AR	08/05/2011	ND	10.0000
Arsenic	ug/L	UBC28AR	08/10/2012	ND	10.0000
Arsenic	ug/L	UBC28AR	08/08/2013	ND	10.0000
Arsenic	ug/L	UBC28AR	07/30/2014	ND	10.0000
Arsenic	ug/L	UBC28AR	08/14/2015	ND	10.0000
Arsenic	ug/L	UBC28AR	08/10/2016	ND	15.0000
Arsenic	ug/L	UBC28AR	07/27/2017	ND	15.0000
Barium	UG/L	MW1	01/11/1993		100.0000
Barium	UG/L	MW1	03/04/1993		120.0000
Barium	UG/L	MW1	05/03/1993	ND	100.0000
Barium	UG/L	MW1	06/03/1993		115.0000
Barium	UG/L	MW1	07/06/1993		111.0000
Barium	UG/L	MW1	09/07/1993		103.0000
Barium	UG/L	MW1	11/04/1993		120.0000
Barium	UG/L	MW1	12/06/1993		114.0000
Barium	UG/L	MW1	02/14/1994		123.0000
Barium	UG/L	MW1	05/11/1994		106.0000
Barium	UG/L	MW1	07/19/1994		110.0000
Barium	UG/L	MW1	10/19/1994		105.0000
Barium	UG/L	MW1	01/16/1995		110.0000
Barium	UG/L	MW1	04/19/1995		108.0000
Barium	UG/L	MW1	07/24/1995		106.0000
Barium	UG/L	MW1	10/24/1995		112.0000
Barium	UG/L	MW1	01/22/1996		110.0000
Barium	UG/L	MW1	04/22/1996		108.0000
Barium	UG/L	MW1	07/22/1996		117.0000
Barium	UG/L	MW1	10/21/1996		123.0000
Barium	UG/L	MW1	01/20/1997		123.0000
Barium	UG/L	MW1	04/21/1997		107.0000
Barium	UG/L	MW1	07/15/1997		105.0000
Barium	UG/L	MW1	10/16/1997		116.0000
Barium	UG/L	MW1	01/19/1998		113.0000
Barium	UG/L	MW1	04/20/1998		119.0000
Barium	UG/L	MW1	07/15/1998		110.0000
Barium	UG/L	MW1	10/19/1998		111.0000
Barium	UG/L	MW1	01/18/1999		126.0000
Barium	UG/L	MW1	04/20/1999		100.0000
Barium	UG/L	MW1	07/19/1999		118.0000
Barium	UG/L	MW1	10/18/1999		134.0000
Barium	UG/L	MW1	01/17/2000		116.0000
Barium	UG/L	MW1	04/18/2000		121.0000
Barium	UG/L	MW1	07/17/2000		117.0000
Barium	UG/L	MW1	10/17/2000		121.0000
Barium	UG/L	MW1	01/16/2001		119.0000

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	
Barium	UG/L	MW1	04/18/2001		113.0000	
Barium	UG/L	MW1	07/16/2001		110.0000	
Barium	UG/L	MW1	10/17/2001		128.0000	
Barium	UG/L	MW1	01/15/2002		111.0000	
Barium	UG/L	MW1	04/16/2002		122.0000	
Barium	UG/L	MW1	07/16/2002		125.0000	
Barium	UG/L	MW1	10/22/2002		117.0000	
Barium	UG/L	MW1	01/20/2003		114.0000	
Barium	UG/L	MW1	04/16/2003		115.0000	
Barium	UG/L	MW1	07/14/2003		111.0000	
Barium	UG/L	MW1	10/21/2003		114.0000	
Barium	UG/L	MW1	01/19/2004		117.0000	
Barium	UG/L	MW1	01/26/2005		117.0000	
Barium	UG/L	MW1	01/12/2006		123.0000	
Barium	UG/L	MW1	02/07/2007		117.0000	
Barium	UG/L	MW126T	11/08/1995	ND	100.0000	
Barium	UG/L	MW126T	02/29/1996		179.0000	
Barium	UG/L	MW126T	04/23/1996		207.0000	
Barium	UG/L	MW126T	07/22/1996		218.0000	
Barium	UG/L	MW126T	10/21/1996		224.0000	
Barium	UG/L	MW126T	01/20/1997		230.0000	
Barium	UG/L	MW126T	04/23/1997		222.0000	
Barium	UG/L	MW126T	07/15/1997		192.0000	
Barium	UG/L	MW126T	10/16/1997		220.0000	
Barium	UG/L	MW126T	01/19/1998		203.0000	
Barium	UG/L	MW126T	04/16/1998		231.0000	
Barium	UG/L	MW126T	07/16/1998		210.0000	
Barium	UG/L	MW126T	10/15/1998		192.0000	
Barium	UG/L	MW126T	01/18/1999		223.0000	
Barium	UG/L	MW126T	04/21/1999		220.0000	
Barium	UG/L	MW126T	07/19/1999		229.0000	
Barium	UG/L	MW126T	10/20/1999		257.0000	
Barium	UG/L	MW126T	01/17/2000		224.0000	
Barium	UG/L	MW126T	04/19/2000		215.0000	
Barium	UG/L	MW126T	07/17/2000		213.0000	
Barium	UG/L	MW126T	10/18/2000		224.0000	
Barium	UG/L	MW126T	01/18/2001		231.0000	
Barium	UG/L	MW126T	04/19/2001		216.0000	
Barium	UG/L	MW126T	07/16/2001		218.0000	
Barium	UG/L	MW126T	10/18/2001		229.0000	
Barium	UG/L	MW126T	01/17/2002		212.0000	
Barium	UG/L	MW126T	04/18/2002		226.0000	
Barium	UG/L	MW126T	07/17/2002		228.0000	
Barium	UG/L	MW126T	10/24/2002		227.0000	
Barium	UG/L	MW126T	01/20/2003		234.0000	
Barium	UG/L	MW126T	04/21/2003		205.0000	
Barium	UG/L	MW126T	07/16/2003		215.0000	
Barium	UG/L	MW126T	10/23/2003		217.0000	
Barium	UG/L	MW126T	01/19/2004		244.0000	
Barium	UG/L	MW126T	01/26/2005		252.0000	
Barium	UG/L	MW126T	01/16/2006		273.0000	
Barium	UG/L	MW126T	02/09/2007		247.0000	
Barium	UG/L	MW126T	02/22/2008		260.0000	
Barium	UG/L	MW126T	02/06/2009		296.0000	
Barium	UG/L	MW126T	02/10/2010		21.5000	*
Barium	UG/L	MW126T	02/17/2011		267.0000	
Barium	UG/L	MW126T	03/09/2012		280.0000	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	
Barium	UG/L	MW126T	02/15/2013		270.0000	
Barium	UG/L	MW126T	02/06/2014		260.0000	
Barium	UG/L	MW126T	02/05/2015		280.0000	
Barium	UG/L	MW126T	02/10/2016		260.0000	
Barium	UG/L	MW126T	02/02/2017		240.0000	
Barium	UG/L	MW92SR	07/25/1995		156.0000	
Barium	UG/L	MW92SR	10/25/1995		166.0000	
Barium	UG/L	MW92SR	01/17/1996		156.0000	
Barium	UG/L	MW92SR	04/23/1996		152.0000	
Barium	UG/L	MW92SR	07/18/1996		161.0000	
Barium	UG/L	MW92SR	10/22/1996		173.0000	
Barium	UG/L	MW92SR	01/20/1997		178.0000	
Barium	UG/L	MW92SR	04/22/1997		158.0000	
Barium	UG/L	MW92SR	07/16/1997		145.0000	
Barium	UG/L	MW92SR	10/21/1997		163.0000	
Barium	UG/L	MW92SR	01/21/1998		162.0000	
Barium	UG/L	MW92SR	04/21/1998		163.0000	
Barium	UG/L	MW92SR	07/16/1998		161.0000	
Barium	UG/L	MW92SR	10/20/1998		156.0000	
Barium	UG/L	MW92SR	01/19/1999		161.0000	
Barium	UG/L	MW92SR	04/21/1999		150.0000	
Barium	UG/L	MW92SR	07/20/1999		158.0000	
Barium	UG/L	MW92SR	10/19/1999		153.0000	
Barium	UG/L	MW92SR	01/18/2000		162.0000	
Barium	UG/L	MW92SR	04/19/2000		176.0000	
Barium	UG/L	MW92SR	07/18/2000		152.0000	
Barium	UG/L	MW92SR	10/18/2000		160.0000	
Barium	UG/L	MW92SR	01/17/2001		175.0000	
Barium	UG/L	MW92SR	04/23/2001		161.0000	
Barium	UG/L	MW92SR	07/17/2001		165.0000	
Barium	UG/L	MW92SR	10/22/2001		171.0000	
Barium	UG/L	MW92SR	01/16/2002		154.0000	
Barium	UG/L	MW92SR	04/22/2002		155.0000	
Barium	UG/L	MW92SR	07/17/2002		162.0000	
Barium	UG/L	MW92SR	10/24/2002		156.0000	
Barium	UG/L	MW92SR	01/20/2003		157.0000	
Barium	UG/L	MW92SR	04/21/2003		149.0000	
Barium	UG/L	MW92SR	07/16/2003		144.0000	
Barium	UG/L	MW92SR	10/23/2003		152.0000	
Barium	UG/L	MW92SR	01/20/2004		171.0000	
Barium	UG/L	MW92SR	01/27/2005		166.0000	
Barium	UG/L	MW92SR	01/13/2006		179.0000	
Barium	UG/L	MW92SR	02/08/2007		176.0000	
Barium	UG/L	MW92SR	02/21/2008		188.0000	
Barium	UG/L	MW92SR	02/04/2009		171.0000	
Barium	UG/L	MW92SR	02/08/2010		177.0000	
Barium	UG/L	MW92SR	02/15/2011		176.0000	
Barium	UG/L	MW92SR	03/08/2012		160.0000	
Barium	UG/L	MW92SR	02/14/2013		180.0000	
Barium	UG/L	MW92SR	02/06/2014		140.0000	
Barium	UG/L	MW92SR	02/04/2015		130.0000	
Barium	UG/L	MW92SR	01/29/2016		120.0000	
Barium	UG/L	MW92SR	01/27/2017		110.0000	
Barium	UG/L	MW93PR	07/25/1995		132.0000	
Barium	UG/L	MW93PR	10/25/1995		148.0000	
Barium	UG/L	MW93PR	01/17/1996		139.0000	
Barium	UG/L	MW93PR	04/23/1996		149.0000	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result
Barium	UG/L	MW93PR	07/18/1996		150.0000
Barium	UG/L	MW93PR	10/22/1996		167.0000
Barium	UG/L	MW93PR	01/20/1997		175.0000
Barium	UG/L	MW93PR	04/22/1997		168.0000
Barium	UG/L	MW93PR	07/16/1997		149.0000
Barium	UG/L	MW93PR	10/23/1997		172.0000
Barium	UG/L	MW93PR	01/21/1998		159.0000
Barium	UG/L	MW93PR	04/21/1998		162.0000
Barium	UG/L	MW93PR	07/16/1998		149.0000
Barium	UG/L	MW93PR	10/20/1998		167.0000
Barium	UG/L	MW93PR	01/19/1999		171.0000
Barium	UG/L	MW93PR	04/21/1999		140.0000
Barium	UG/L	MW93PR	07/20/1999		169.0000
Barium	UG/L	MW93PR	10/19/1999		156.0000
Barium	UG/L	MW93PR	01/18/2000		154.0000
Barium	UG/L	MW93PR	04/19/2000		190.0000
Barium	UG/L	MW93PR	07/18/2000		157.0000
Barium	UG/L	MW93PR	10/18/2000		147.0000
Barium	UG/L	MW93PR	01/17/2001		140.0000
Barium	UG/L	MW93PR	04/23/2001		192.0000
Barium	UG/L	MW93PR	07/17/2001		340.0000
Barium	UG/L	MW93PR	10/22/2001		198.0000
Barium	UG/L	MW93PR	01/16/2002		153.0000
Barium	UG/L	MW93PR	04/22/2002		135.0000
Barium	UG/L	MW93PR	07/17/2002		137.0000
Barium	UG/L	MW93PR	10/24/2002		127.0000
Barium	UG/L	MW93PR	01/20/2003		127.0000
Barium	UG/L	MW93PR	04/21/2003		120.0000
Barium	UG/L	MW93PR	07/16/2003		123.0000
Barium	UG/L	MW93PR	10/23/2003		132.0000
Barium	UG/L	MW93PR	04/20/2004		160.0000
Barium	UG/L	MW93PR	04/29/2005		143.0000
Barium	UG/L	MW93PR	05/11/2006		148.0000
Barium	UG/L	MW93PR	05/02/2007		146.0000
Barium	UG/L	MW93PR	04/30/2008		147.0000
Barium	UG/L	MW93PR	05/06/2009		150.0000
Barium	UG/L	MW93PR	05/12/2010		151.0000
Barium	UG/L	MW93PR	05/12/2011		143.0000
Barium	UG/L	MW93PR	05/11/2012		140.0000
Barium	UG/L	MW93PR	05/09/2013		140.0000
Barium	UG/L	MW93PR	04/30/2014		150.0000
Barium	UG/L	MW93PR	05/06/2015		130.0000
Barium	UG/L	MW93PR	05/03/2016		130.0000
Barium	UG/L	MW93PR	04/27/2017		140.0000
Barium	UG/L	MW94PR	07/26/1995	ND	100.0000
Barium	UG/L	MW94PR	10/25/1995		156.0000
Barium	UG/L	MW94PR	01/17/1996		131.0000
Barium	UG/L	MW94PR	04/23/1996		147.0000
Barium	UG/L	MW94PR	07/18/1996		159.0000
Barium	UG/L	MW94PR	10/22/1996		175.0000
Barium	UG/L	MW94PR	01/20/1997		176.0000
Barium	UG/L	MW94PR	04/23/1997		172.0000
Barium	UG/L	MW94PR	07/15/1997		146.0000
Barium	UG/L	MW94PR	10/21/1997		160.0000
Barium	UG/L	MW94PR	01/15/1998		155.0000
Barium	UG/L	MW94PR	04/22/1998		169.0000
Barium	UG/L	MW94PR	07/16/1998		171.0000

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result
Barium	UG/L	MW94PR	10/21/1998		158.0000
Barium	UG/L	MW94PR	01/18/1999		157.0000
Barium	UG/L	MW94PR	04/21/1999		150.0000
Barium	UG/L	MW94PR	07/19/1999		155.0000
Barium	UG/L	MW94PR	10/19/1999		165.0000
Barium	UG/L	MW94PR	01/17/2000		164.0000
Barium	UG/L	MW94PR	04/19/2000		165.0000
Barium	UG/L	MW94PR	07/17/2000		163.0000
Barium	UG/L	MW94PR	10/18/2000		162.0000
Barium	UG/L	MW94PR	01/18/2001		175.0000
Barium	UG/L	MW94PR	04/19/2001		175.0000
Barium	UG/L	MW94PR	07/16/2001		158.0000
Barium	UG/L	MW94PR	10/18/2001		168.0000
Barium	UG/L	MW94PR	01/17/2002		152.0000
Barium	UG/L	MW94PR	04/18/2002		178.0000
Barium	UG/L	MW94PR	07/17/2002		164.0000
Barium	UG/L	MW94PR	10/24/2002		158.0000
Barium	UG/L	MW94PR	01/20/2003		154.0000
Barium	UG/L	MW94PR	04/21/2003		141.0000
Barium	UG/L	MW94PR	07/16/2003		146.0000
Barium	UG/L	MW94PR	10/23/2003		154.0000
Barium	UG/L	MW94PR	04/20/2004		162.0000
Barium	UG/L	MW94PR	04/29/2005		143.0000
Barium	UG/L	MW94PR	05/11/2006		130.0000
Barium	UG/L	MW94PR	05/03/2007		128.0000
Barium	UG/L	MW94PR	05/01/2008		136.0000
Barium	UG/L	MW94PR	05/07/2009	ND	100.0000
Barium	UG/L	MW94PR	05/14/2010		114.0000
Barium	UG/L	MW94PR	05/13/2011		106.0000
Barium	UG/L	MW94PR	05/11/2012		110.0000
Barium	UG/L	MW94PR	05/09/2013		110.0000
Barium	UG/L	MW94PR	04/30/2014		110.0000
Barium	UG/L	MW94PR	05/06/2015	ND	100.0000
Barium	UG/L	MW94PR	05/03/2016		120.0000
Barium	UG/L	MW94PR	04/28/2017		78.0000
Barium	UG/L	MW95P	02/10/1993	ND	100.0000
Barium	UG/L	MW95P	04/14/1993	ND	100.0000
Barium	UG/L	MW95P	08/10/1993	ND	100.0000
Barium	UG/L	MW95P	10/13/1993		138.0000
Barium	UG/L	MW95P	02/14/1994		142.0000
Barium	UG/L	MW95P	05/09/1994		115.0000
Barium	UG/L	MW95P	07/20/1994		139.0000
Barium	UG/L	MW95P	10/20/1994		136.0000
Barium	UG/L	MW95P	01/17/1995		140.0000
Barium	UG/L	MW95P	04/24/1995		147.0000
Barium	UG/L	MW95P	07/25/1995		144.0000
Barium	UG/L	MW95P	10/23/1995		150.0000
Barium	UG/L	MW95P	01/23/1996		152.0000
Barium	UG/L	MW95P	04/15/1996		139.0000
Barium	UG/L	MW95P	07/18/1996		144.0000
Barium	UG/L	MW95P	10/22/1996		169.0000
Barium	UG/L	MW95P	01/20/1997		159.0000
Barium	UG/L	MW95P	04/22/1997		151.0000
Barium	UG/L	MW95P	07/16/1997		139.0000
Barium	UG/L	MW95P	10/16/1997		153.0000
Barium	UG/L	MW95P	01/15/1998		149.0000
Barium	UG/L	MW95P	04/21/1998		141.0000

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	
Barium	UG/L	MW95P	07/16/1998		146.0000	
Barium	UG/L	MW95P	10/19/1998		139.0000	
Barium	UG/L	MW95P	01/19/1999		156.0000	
Barium	UG/L	MW95P	04/21/1999		140.0000	
Barium	UG/L	MW95P	07/20/1999		142.0000	
Barium	UG/L	MW95P	10/19/1999		155.0000	
Barium	UG/L	MW95P	01/18/2000		154.0000	
Barium	UG/L	MW95P	04/19/2000		148.0000	
Barium	UG/L	MW95P	07/18/2000		134.0000	
Barium	UG/L	MW95P	10/18/2000		146.0000	
Barium	UG/L	MW95P	01/17/2001		177.0000	
Barium	UG/L	MW95P	04/23/2001		138.0000	
Barium	UG/L	MW95P	07/17/2001		139.0000	
Barium	UG/L	MW95P	10/22/2001		168.0000	
Barium	UG/L	MW95P	01/16/2002		139.0000	
Barium	UG/L	MW95P	04/22/2002		150.0000	
Barium	UG/L	MW95P	07/17/2002		157.0000	
Barium	UG/L	MW95P	10/24/2002		143.0000	
Barium	UG/L	MW95P	01/20/2003		129.0000	
Barium	UG/L	MW95P	04/21/2003		139.0000	
Barium	UG/L	MW95P	07/16/2003		131.0000	
Barium	UG/L	MW95P	10/23/2003		139.0000	
Barium	UG/L	MW95P	04/20/2004		168.0000	
Barium	UG/L	MW95P	04/29/2005		120.0000	
Barium	UG/L	MW95P	05/11/2006		139.0000	
Barium	UG/L	MW95P	05/02/2007		187.0000	
Barium	UG/L	MW95P	04/30/2008		157.0000	
Barium	UG/L	MW95P	05/06/2009		143.0000	
Barium	UG/L	MW95P	05/12/2010		143.0000	
Barium	UG/L	MW95P	05/11/2011		105.0000	
Barium	UG/L	MW95P	05/11/2012		150.0000	
Barium	UG/L	MW95P	05/09/2013		150.0000	
Barium	UG/L	MW95P	04/23/2014		150.0000	
Barium	UG/L	MW95P	04/30/2015		140.0000	
Barium	UG/L	MW95P	04/28/2016		160.0000	
Barium	UG/L	MW95P	04/20/2017		160.0000	
Barium	UG/L	MW96T	04/14/1993		108.0000	
Barium	UG/L	MW96T	08/11/1993		187.0000	
Barium	UG/L	MW96T	10/13/1993		167.0000	
Barium	UG/L	MW96T	01/04/1994		206.0000	
Barium	UG/L	MW96T	04/05/1994		188.0000	
Barium	UG/L	MW96T	07/19/1994		208.0000	
Barium	UG/L	MW96T	10/20/1994		206.0000	
Barium	UG/L	MW96T	01/17/1995		230.0000	
Barium	UG/L	MW96T	04/24/1995		193.0000	
Barium	UG/L	MW96T	07/25/1995		210.0000	
Barium	UG/L	MW96T	10/11/1995		230.0000	
Barium	UG/L	MW96T	01/17/1996		205.0000	
Barium	UG/L	MW96T	04/18/1996		232.0000	
Barium	UG/L	MW96T	07/18/1996		201.0000	
Barium	UG/L	MW96T	10/22/1996		218.0000	
Barium	UG/L	MW96T	01/21/1997		238.0000	
Barium	UG/L	MW96T	04/22/1997		215.0000	
Barium	UG/L	MW96T	07/15/1997		189.0000	
Barium	UG/L	MW96T	10/21/1997		240.0000	
Barium	UG/L	MW96T	01/15/1998		173.0000	
Barium	UG/L	MW96T	04/22/1998		224.0000	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result
Barium	UG/L	MW96T	07/16/1998		218.0000
Barium	UG/L	MW96T	10/20/1998		172.0000
Barium	UG/L	MW96T	01/20/1999		215.0000
Barium	UG/L	MW96T	04/21/1999		190.0000
Barium	UG/L	MW96T	07/20/1999		214.0000
Barium	UG/L	MW96T	10/19/1999		211.0000
Barium	UG/L	MW96T	01/19/2000		218.0000
Barium	UG/L	MW96T	04/19/2000		217.0000
Barium	UG/L	MW96T	07/19/2000		210.0000
Barium	UG/L	MW96T	10/18/2000		225.0000
Barium	UG/L	MW96T	01/17/2001		245.0000
Barium	UG/L	MW96T	04/19/2001		185.0000
Barium	UG/L	MW96T	07/18/2001		141.0000
Barium	UG/L	MW96T	10/18/2001		118.0000
Barium	UG/L	MW96T	01/16/2002		171.0000
Barium	UG/L	MW96T	04/18/2002		177.0000
Barium	UG/L	MW96T	07/18/2002		162.0000
Barium	UG/L	MW96T	10/24/2002		133.0000
Barium	UG/L	MW96T	01/21/2003		148.0000
Barium	UG/L	MW96T	04/21/2003		116.0000
Barium	UG/L	MW96T	07/16/2003	ND	100.0000
Barium	UG/L	MW96T	10/23/2003	ND	100.0000
Barium	UG/L	MW96T	01/20/2004	ND	100.0000
Barium	UG/L	MW96T	01/27/2005	ND	100.0000
Barium	UG/L	MW96T	01/17/2006		140.0000
Barium	UG/L	MW96T	02/08/2007		169.0000
Barium	UG/L	MW96T	02/22/2008		183.0000
Barium	UG/L	MW96T	02/06/2009		151.0000
Barium	UG/L	MW96T	02/09/2010		190.0000
Barium	UG/L	MW96T	02/17/2011		179.0000
Barium	UG/L	MW96T	03/09/2012		180.0000
Barium	UG/L	MW96T	02/19/2013		220.0000
Barium	UG/L	MW96T	02/07/2014	ND	100.0000
Barium	UG/L	MW96T	02/04/2015		110.0000
Barium	UG/L	MW96T	02/10/2016	ND	100.0000
Barium	UG/L	MW96T	02/01/2017		110.0000
Barium	UG/L	MW97T	02/10/1993		190.0000
Barium	UG/L	MW97T	04/14/1993		166.0000
Barium	UG/L	MW97T	08/10/1993		176.0000
Barium	UG/L	MW97T	10/13/1993		167.0000
Barium	UG/L	MW97T	02/16/1994		160.0000
Barium	UG/L	MW97T	05/09/1994		142.0000
Barium	UG/L	MW97T	07/20/1994		156.0000
Barium	UG/L	MW97T	10/24/1994		160.0000
Barium	UG/L	MW97T	01/17/1995		162.0000
Barium	UG/L	MW97T	04/07/1995		165.0000
Barium	UG/L	MW97T	07/25/1995		159.0000
Barium	UG/L	MW98TR	07/25/1995		176.0000
Barium	UG/L	MW98TR	10/25/1995		224.0000
Barium	UG/L	MW98TR	01/17/1996		167.0000
Barium	UG/L	MW98TR	04/23/1996		229.0000
Barium	UG/L	MW98TR	07/18/1996		241.0000
Barium	UG/L	MW98TR	10/22/1996		256.0000
Barium	UG/L	MW98TR	01/21/1997		276.0000
Barium	UG/L	MW98TR	04/22/1997		235.0000
Barium	UG/L	MW98TR	07/15/1997		254.0000
Barium	UG/L	MW98TR	10/21/1997		265.0000

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result
Barium	UG/L	MW98TR	01/20/1998		261.0000
Barium	UG/L	MW98TR	07/16/1998		251.0000
Barium	UG/L	MW98TR	10/20/1998		242.0000
Barium	UG/L	MW98TR	01/20/1999		265.0000
Barium	UG/L	MW98TR	04/21/1999		260.0000
Barium	UG/L	MW98TR	07/20/1999		280.0000
Barium	UG/L	MW98TR	10/19/1999		266.0000
Barium	UG/L	MW98TR	01/19/2000		285.0000
Barium	UG/L	MW98TR	04/19/2000		299.0000
Barium	UG/L	MW98TR	07/19/2000		249.0000
Barium	UG/L	MW98TR	10/18/2000		278.0000
Barium	UG/L	MW98TR	01/17/2001		306.0000
Barium	UG/L	MW98TR	04/19/2001		280.0000
Barium	UG/L	MW98TR	07/18/2001		263.0000
Barium	UG/L	MW98TR	10/18/2001		281.0000
Barium	UG/L	MW98TR	01/16/2002		266.0000
Barium	UG/L	MW98TR	04/18/2002		281.0000
Barium	UG/L	MW98TR	07/18/2002		293.0000
Barium	UG/L	MW98TR	10/24/2002		262.0000
Barium	UG/L	MW98TR	01/21/2003		281.0000
Barium	UG/L	MW98TR	04/21/2003		258.0000
Barium	UG/L	MW98TR	07/16/2003		266.0000
Barium	UG/L	MW98TR	10/23/2003		262.0000
Barium	UG/L	MW98TR	01/20/2004		287.0000
Barium	UG/L	MW98TR	01/27/2005		281.0000
Barium	UG/L	MW98TR	01/17/2006		293.0000
Barium	UG/L	MW98TR	02/08/2007		284.0000
Barium	UG/L	MW98TR	02/22/2008		293.0000
Barium	UG/L	MW98TR	02/06/2009		183.0000
Barium	UG/L	MW98TR	02/09/2010		313.0000
Barium	UG/L	MW98TR	02/17/2011		294.0000
Barium	UG/L	MW98TR	03/09/2012		330.0000
Barium	UG/L	MW98TR	02/15/2013		310.0000
Barium	UG/L	MW98TR	02/06/2014		300.0000
Barium	UG/L	MW98TR	02/04/2015		300.0000
Barium	UG/L	MW98TR	02/10/2016		310.0000
Barium	UG/L	MW98TR	02/01/2017		260.0000
Barium	UG/L	PSDL17A	01/05/1993		120.0000
Barium	UG/L	PSDL17A	03/09/1993		140.0000
Barium	UG/L	PSDL17A	05/06/1993		123.0000
Barium	UG/L	PSDL17A	06/09/1993		143.0000
Barium	UG/L	PSDL17A	07/08/1993		126.0000
Barium	UG/L	PSDL17A	09/02/1993		111.0000
Barium	UG/L	PSDL17A	11/03/1993		142.0000
Barium	UG/L	PSDL17A	12/08/1993		123.0000
Barium	UG/L	PSDL17A	02/15/1994		134.0000
Barium	UG/L	PSDL17A	05/09/1994	ND	100.0000
Barium	UG/L	PSDL17A	07/06/1994		128.0000
Barium	UG/L	PSDL17A	10/20/1994	ND	100.0000
Barium	UG/L	PSDL17A	01/09/1995		133.0000
Barium	UG/L	PSDL17A	04/07/1995		137.0000
Barium	UG/L	PSDL17A	07/17/1995		131.0000
Barium	UG/L	PSDL17A	10/11/1995		143.0000
Barium	UG/L	PSDL17A	01/16/1996		149.0000
Barium	UG/L	PSDL17A	04/10/1996	ND	100.0000
Barium	UG/L	PSDL17A	07/18/1996		131.0000
Barium	UG/L	PSDL17A	10/22/1996		145.0000

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result
Barium	UG/L	PSDL17A	01/20/1997		139.0000
Barium	UG/L	PSDL17A	04/22/1997	ND	100.0000
Barium	UG/L	PSDL17A	07/16/1997		127.0000
Barium	UG/L	PSDL17A	10/16/1997		139.0000
Barium	UG/L	PSDL17A	01/20/1998		135.0000
Barium	UG/L	PSDL17A	04/22/1998		138.0000
Barium	UG/L	PSDL17A	07/16/1998		139.0000
Barium	UG/L	PSDL17A	10/19/1998		130.0000
Barium	UG/L	PSDL17A	01/19/1999		139.0000
Barium	UG/L	PSDL17A	04/20/1999		120.0000
Barium	UG/L	PSDL17A	07/20/1999		118.0000
Barium	UG/L	PSDL17A	10/18/1999		149.0000
Barium	UG/L	PSDL17A	01/18/2000		128.0000
Barium	UG/L	PSDL17A	04/18/2000		149.0000
Barium	UG/L	PSDL17A	07/18/2000		105.0000
Barium	UG/L	PSDL17A	10/17/2000		123.0000
Barium	UG/L	PSDL17A	01/16/2001		133.0000
Barium	UG/L	PSDL17A	04/18/2001		121.0000
Barium	UG/L	PSDL17A	07/17/2001	ND	100.0000
Barium	UG/L	PSDL17A	10/17/2001		129.0000
Barium	UG/L	PSDL17A	01/16/2002	ND	100.0000
Barium	UG/L	PSDL17A	04/16/2002		123.0000
Barium	UG/L	PSDL17A	07/17/2002		135.0000
Barium	UG/L	PSDL17A	10/22/2002		133.0000
Barium	UG/L	PSDL17A	01/20/2003		133.0000
Barium	UG/L	PSDL17A	04/21/2003		117.0000
Barium	UG/L	PSDL17A	07/15/2003		140.0000
Barium	UG/L	PSDL17A	10/23/2003		148.0000
Barium	UG/L	PSDL17A	01/19/2004		142.0000
Barium	UG/L	PSDL17A	01/26/2005	ND	100.0000
Barium	UG/L	PSDL17A	01/13/2006	ND	100.0000
Barium	UG/L	PSDL17A	02/07/2007	ND	100.0000
Barium	UG/L	PSDL17A	02/21/2008		116.0000
Barium	UG/L	PSDL17A	02/05/2009	ND	100.0000
Barium	UG/L	PSDL17A	02/09/2010		72.6000
Barium	UG/L	PSDL17A	02/15/2011	ND	100.0000
Barium	UG/L	PSDL17A	03/08/2012		140.0000
Barium	UG/L	PSDL17A	02/14/2013		150.0000
Barium	UG/L	PSDL17A	02/06/2014		150.0000
Barium	UG/L	PSDL17A	02/04/2015		150.0000
Barium	UG/L	PSDL17A	02/05/2016		130.0000
Barium	UG/L	PSDL17A	01/31/2017		140.0000
Barium	UG/L	UBC25	02/09/1993	ND	100.0000
Barium	UG/L	UBC25	04/14/1993		103.0000
Barium	UG/L	UBC25	08/05/1993	ND	100.0000
Barium	UG/L	UBC25	10/12/1993	ND	100.0000
Barium	UG/L	UBC25	02/14/1994	ND	100.0000
Barium	UG/L	UBC25	05/09/1994	ND	100.0000
Barium	UG/L	UBC25	10/20/1994	ND	100.0000
Barium	UG/L	UBC25	04/20/1995	ND	100.0000
Barium	UG/L	UBC25	10/25/1995	ND	100.0000
Barium	UG/L	UBC25	04/23/1996	ND	100.0000
Barium	UG/L	UBC25	10/22/1996		214.0000
Barium	UG/L	UBC25	04/22/1997		140.0000
Barium	UG/L	UBC25	10/21/1997	ND	100.0000
Barium	UG/L	UBC25	04/21/1998	ND	100.0000
Barium	UG/L	UBC25	10/20/1998	ND	100.0000

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result
Barium	UG/L	UBC25	04/21/1999	ND	100.0000
Barium	UG/L	UBC25	10/19/1999	ND	100.0000
Barium	UG/L	UBC25	04/19/2000	ND	100.0000
Barium	UG/L	UBC25	07/19/2000	ND	100.0000
Barium	UG/L	UBC25	10/18/2000	ND	100.0000
Barium	UG/L	UBC25	04/23/2001	ND	100.0000
Barium	UG/L	UBC25	10/22/2001	ND	100.0000
Barium	UG/L	UBC25	04/22/2002	ND	100.0000
Barium	UG/L	UBC25	10/24/2002	ND	100.0000
Barium	UG/L	UBC25	04/21/2003	ND	100.0000
Barium	UG/L	UBC25	10/23/2003	ND	100.0000
Barium	UG/L	UBC25	07/20/2004	ND	100.0000
Barium	UG/L	UBC25	07/28/2005	ND	100.0000
Barium	UG/L	UBC25	08/09/2006	ND	100.0000
Barium	UG/L	UBC25	08/10/2007	ND	100.0000
Barium	UG/L	UBC25	08/08/2008	ND	100.0000
Barium	UG/L	UBC25	07/31/2009	ND	100.0000
Barium	UG/L	UBC25	08/06/2010	ND	100.0000
Barium	UG/L	UBC25	08/08/2011	ND	100.0000
Barium	UG/L	UBC25	08/13/2012	ND	100.0000
Barium	UG/L	UBC25	08/08/2013	ND	100.0000
Barium	UG/L	UBC25	07/30/2014	ND	100.0000
Barium	UG/L	UBC25	08/17/2015	ND	100.0000
Barium	UG/L	UBC25	08/19/2016	ND	100.0000
Barium	UG/L	UBC25	07/27/2017		89.0000
Barium	UG/L	UBC27	02/09/1993	ND	100.0000
Barium	UG/L	UBC27	04/14/1993	ND	100.0000
Barium	UG/L	UBC27	08/11/1993	ND	100.0000
Barium	UG/L	UBC27	10/13/1993	ND	100.0000
Barium	UG/L	UBC27	02/14/1994	ND	100.0000
Barium	UG/L	UBC27	05/11/1994	ND	100.0000
Barium	UG/L	UBC27	10/20/1994	ND	100.0000
Barium	UG/L	UBC27	04/20/1995	ND	100.0000
Barium	UG/L	UBC27	10/25/1995	ND	100.0000
Barium	UG/L	UBC27	04/23/1996	ND	100.0000
Barium	UG/L	UBC27	10/22/1996	ND	100.0000
Barium	UG/L	UBC27	04/22/1997	ND	100.0000
Barium	UG/L	UBC27	10/23/1997	ND	100.0000
Barium	UG/L	UBC27	04/21/1998	ND	100.0000
Barium	UG/L	UBC27	10/20/1998	ND	100.0000
Barium	UG/L	UBC27	04/21/1999	ND	100.0000
Barium	UG/L	UBC27	10/19/1999	ND	100.0000
Barium	UG/L	UBC27	04/19/2000	ND	100.0000
Barium	UG/L	UBC27	07/18/2000	ND	100.0000
Barium	UG/L	UBC27	10/18/2000	ND	100.0000
Barium	UG/L	UBC27	04/23/2001	ND	100.0000
Barium	UG/L	UBC27	10/22/2001	ND	100.0000
Barium	UG/L	UBC27	04/22/2002	ND	100.0000
Barium	UG/L	UBC27	10/24/2002	ND	100.0000
Barium	UG/L	UBC27	04/21/2003	ND	100.0000
Barium	UG/L	UBC27	10/23/2003	ND	100.0000
Barium	UG/L	UBC27	07/20/2004	ND	100.0000
Barium	UG/L	UBC27	07/28/2005	ND	100.0000
Barium	UG/L	UBC27	08/09/2006	ND	100.0000
Barium	UG/L	UBC27	08/10/2007	ND	100.0000
Barium	UG/L	UBC27	08/08/2008	ND	100.0000
Barium	UG/L	UBC27	07/31/2009	ND	100.0000

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result
Barium	UG/L	UBC27	08/06/2010	ND	100.0000
Barium	UG/L	UBC27	08/08/2011	ND	100.0000
Barium	UG/L	UBC27	08/13/2012	ND	100.0000
Barium	UG/L	UBC27	08/08/2013	ND	100.0000
Barium	UG/L	UBC27	07/30/2014	ND	100.0000
Barium	UG/L	UBC27	08/17/2015	ND	100.0000
Barium	UG/L	UBC27	08/19/2016	ND	100.0000
Barium	UG/L	UBC27	07/27/2017		85.0000
Barium	UG/L	UBC28AR	10/25/1995		134.0000
Barium	UG/L	UBC28AR	04/18/1996		141.0000
Barium	UG/L	UBC28AR	10/17/1996		153.0000
Barium	UG/L	UBC28AR	04/22/1997		146.0000
Barium	UG/L	UBC28AR	10/16/1997		129.0000
Barium	UG/L	UBC28AR	04/21/1998		155.0000
Barium	UG/L	UBC28AR	10/19/1998		145.0000
Barium	UG/L	UBC28AR	04/21/1999		140.0000
Barium	UG/L	UBC28AR	10/19/1999		150.0000
Barium	UG/L	UBC28AR	04/19/2000		155.0000
Barium	UG/L	UBC28AR	07/19/2000		135.0000
Barium	UG/L	UBC28AR	10/18/2000		140.0000
Barium	UG/L	UBC28AR	04/23/2001		132.0000
Barium	UG/L	UBC28AR	10/22/2001		154.0000
Barium	UG/L	UBC28AR	04/22/2002		135.0000
Barium	UG/L	UBC28AR	10/24/2002		135.0000
Barium	UG/L	UBC28AR	04/21/2003		126.0000
Barium	UG/L	UBC28AR	10/23/2003		125.0000
Barium	UG/L	UBC28AR	07/20/2004		127.0000
Barium	UG/L	UBC28AR	07/28/2005		119.0000
Barium	UG/L	UBC28AR	08/09/2006	ND	100.0000
Barium	UG/L	UBC28AR	08/10/2007	ND	100.0000
Barium	UG/L	UBC28AR	08/08/2008	ND	100.0000
Barium	UG/L	UBC28AR	07/31/2009	ND	100.0000
Barium	UG/L	UBC28AR	08/06/2010	ND	100.0000
Barium	UG/L	UBC28AR	08/05/2011	ND	100.0000
Barium	UG/L	UBC28AR	08/10/2012	ND	100.0000
Barium	UG/L	UBC28AR	08/08/2013	ND	100.0000
Barium	UG/L	UBC28AR	07/30/2014	ND	100.0000
Barium	UG/L	UBC28AR	08/14/2015	ND	100.0000
Barium	UG/L	UBC28AR	08/10/2016	ND	100.0000
Barium	UG/L	UBC28AR	07/27/2017		40.0000
Cadmium	UG/L	MW1	01/11/1993	ND	5.0000
Cadmium	UG/L	MW1	03/04/1993	ND	5.0000
Cadmium	UG/L	MW1	05/03/1993	ND	5.0000
Cadmium	UG/L	MW1	06/03/1993	ND	5.0000
Cadmium	UG/L	MW1	07/06/1993	ND	5.0000
Cadmium	UG/L	MW1	09/07/1993	ND	5.0000
Cadmium	UG/L	MW1	11/04/1993	ND	5.0000
Cadmium	UG/L	MW1	12/06/1993	ND	5.0000
Cadmium	UG/L	MW1	02/14/1994	ND	5.0000
Cadmium	UG/L	MW1	05/11/1994	ND	5.0000
Cadmium	UG/L	MW1	07/19/1994	ND	5.0000
Cadmium	UG/L	MW1	10/19/1994	ND	5.0000
Cadmium	UG/L	MW1	01/16/1995	ND	5.0000
Cadmium	UG/L	MW1	04/19/1995	ND	5.0000
Cadmium	UG/L	MW1	07/24/1995	ND	5.0000
Cadmium	UG/L	MW1	10/24/1995	ND	5.0000
Cadmium	UG/L	MW1	01/22/1996	ND	5.0000

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result
Cadmium	UG/L	MW1	04/22/1996	ND	5.0000
Cadmium	UG/L	MW1	07/22/1996	ND	5.0000
Cadmium	UG/L	MW1	10/21/1996	ND	5.0000
Cadmium	UG/L	MW1	01/20/1997	ND	5.0000
Cadmium	UG/L	MW1	04/21/1997	ND	5.0000
Cadmium	UG/L	MW1	07/15/1997	ND	5.0000
Cadmium	UG/L	MW1	10/16/1997	ND	5.0000
Cadmium	UG/L	MW1	01/19/1998	ND	5.0000
Cadmium	UG/L	MW1	04/20/1998	ND	5.0000
Cadmium	UG/L	MW1	07/15/1998	ND	5.0000
Cadmium	UG/L	MW1	10/19/1998	ND	5.0000
Cadmium	UG/L	MW1	01/18/1999	ND	5.0000
Cadmium	UG/L	MW1	04/20/1999	ND	5.0000
Cadmium	UG/L	MW1	07/19/1999	ND	5.0000
Cadmium	UG/L	MW1	10/18/1999	ND	5.0000
Cadmium	UG/L	MW1	01/17/2000	ND	5.0000
Cadmium	UG/L	MW1	04/18/2000	ND	5.0000
Cadmium	UG/L	MW1	07/17/2000	ND	5.0000
Cadmium	UG/L	MW1	10/17/2000	ND	5.0000
Cadmium	UG/L	MW1	01/16/2001	ND	5.0000
Cadmium	UG/L	MW1	04/18/2001	ND	5.0000
Cadmium	UG/L	MW1	07/16/2001	ND	5.0000
Cadmium	UG/L	MW1	10/17/2001	ND	5.0000
Cadmium	UG/L	MW1	01/15/2002	ND	5.0000
Cadmium	UG/L	MW1	04/16/2002	ND	5.0000
Cadmium	UG/L	MW1	07/16/2002	ND	5.0000
Cadmium	UG/L	MW1	10/22/2002	ND	5.0000
Cadmium	UG/L	MW1	01/20/2003	ND	5.0000
Cadmium	UG/L	MW1	04/16/2003	ND	5.0000
Cadmium	UG/L	MW1	07/14/2003	ND	5.0000
Cadmium	UG/L	MW1	10/21/2003	ND	5.0000
Cadmium	UG/L	MW1	01/19/2004	ND	5.0000
Cadmium	UG/L	MW1	01/26/2005	ND	5.0000
Cadmium	UG/L	MW1	01/12/2006	ND	5.0000
Cadmium	UG/L	MW1	02/07/2007	ND	5.0000
Cadmium	UG/L	MW126T	11/08/1995	ND	5.0000
Cadmium	UG/L	MW126T	02/29/1996	ND	5.0000
Cadmium	UG/L	MW126T	04/23/1996	ND	5.0000
Cadmium	UG/L	MW126T	07/22/1996	ND	5.0000
Cadmium	UG/L	MW126T	10/21/1996	ND	5.0000
Cadmium	UG/L	MW126T	01/20/1997	ND	5.0000
Cadmium	UG/L	MW126T	04/23/1997	ND	5.0000
Cadmium	UG/L	MW126T	07/15/1997	ND	5.0000
Cadmium	UG/L	MW126T	10/16/1997	ND	5.0000
Cadmium	UG/L	MW126T	01/19/1998	ND	5.0000
Cadmium	UG/L	MW126T	04/16/1998	ND	5.0000
Cadmium	UG/L	MW126T	07/16/1998	ND	5.0000
Cadmium	UG/L	MW126T	10/15/1998	ND	5.0000
Cadmium	UG/L	MW126T	01/18/1999	ND	5.0000
Cadmium	UG/L	MW126T	04/21/1999	ND	5.0000
Cadmium	UG/L	MW126T	07/19/1999	ND	5.0000
Cadmium	UG/L	MW126T	10/20/1999	ND	5.0000
Cadmium	UG/L	MW126T	01/17/2000	ND	5.0000
Cadmium	UG/L	MW126T	04/19/2000	ND	5.0000
Cadmium	UG/L	MW126T	07/17/2000	ND	5.0000
Cadmium	UG/L	MW126T	10/18/2000	ND	5.0000
Cadmium	UG/L	MW126T	01/18/2001	ND	5.0000

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result
Cadmium	UG/L	MW126T	04/19/2001	ND	5.0000
Cadmium	UG/L	MW126T	07/16/2001	ND	5.0000
Cadmium	UG/L	MW126T	10/18/2001	ND	5.0000
Cadmium	UG/L	MW126T	01/17/2002	ND	5.0000
Cadmium	UG/L	MW126T	04/18/2002	ND	5.0000
Cadmium	UG/L	MW126T	07/17/2002	ND	5.0000
Cadmium	UG/L	MW126T	10/24/2002	ND	5.0000
Cadmium	UG/L	MW126T	01/20/2003	ND	5.0000
Cadmium	UG/L	MW126T	04/21/2003	ND	5.0000
Cadmium	UG/L	MW126T	07/16/2003	ND	5.0000
Cadmium	UG/L	MW126T	10/23/2003	ND	5.0000
Cadmium	UG/L	MW126T	01/19/2004	ND	5.0000
Cadmium	UG/L	MW126T	01/26/2005	ND	5.0000
Cadmium	UG/L	MW126T	01/16/2006	ND	5.0000
Cadmium	UG/L	MW126T	02/09/2007	ND	5.0000
Cadmium	UG/L	MW126T	02/22/2008	ND	5.0000
Cadmium	UG/L	MW126T	02/06/2009	ND	5.0000
Cadmium	UG/L	MW126T	02/10/2010	ND	5.0000
Cadmium	UG/L	MW126T	02/17/2011	ND	5.0000
Cadmium	UG/L	MW126T	03/09/2012	ND	5.0000
Cadmium	UG/L	MW126T	02/15/2013	ND	5.0000
Cadmium	UG/L	MW126T	02/06/2014	ND	5.0000
Cadmium	UG/L	MW126T	02/05/2015	ND	5.0000
Cadmium	UG/L	MW126T	02/10/2016	ND	5.0000
Cadmium	UG/L	MW126T	02/02/2017	ND	5.0000
Cadmium	UG/L	MW92SR	07/25/1995	ND	5.0000
Cadmium	UG/L	MW92SR	10/25/1995	ND	5.0000
Cadmium	UG/L	MW92SR	01/17/1996	ND	5.0000
Cadmium	UG/L	MW92SR	04/23/1996	ND	5.0000
Cadmium	UG/L	MW92SR	07/18/1996	ND	5.0000
Cadmium	UG/L	MW92SR	10/22/1996	ND	5.0000
Cadmium	UG/L	MW92SR	01/20/1997	ND	5.0000
Cadmium	UG/L	MW92SR	04/22/1997	ND	5.0000
Cadmium	UG/L	MW92SR	07/16/1997	ND	5.0000
Cadmium	UG/L	MW92SR	10/21/1997	ND	5.0000
Cadmium	UG/L	MW92SR	01/21/1998	ND	5.0000
Cadmium	UG/L	MW92SR	04/21/1998	ND	5.0000
Cadmium	UG/L	MW92SR	07/16/1998	ND	5.0000
Cadmium	UG/L	MW92SR	10/20/1998	ND	5.0000
Cadmium	UG/L	MW92SR	01/19/1999	ND	5.0000
Cadmium	UG/L	MW92SR	04/21/1999	ND	5.0000
Cadmium	UG/L	MW92SR	07/20/1999	ND	5.0000
Cadmium	UG/L	MW92SR	10/19/1999	ND	5.0000
Cadmium	UG/L	MW92SR	01/18/2000	ND	5.0000
Cadmium	UG/L	MW92SR	04/19/2000	ND	5.0000
Cadmium	UG/L	MW92SR	07/18/2000	ND	5.0000
Cadmium	UG/L	MW92SR	10/18/2000	ND	5.0000
Cadmium	UG/L	MW92SR	01/17/2001	ND	5.0000
Cadmium	UG/L	MW92SR	04/23/2001	ND	5.0000
Cadmium	UG/L	MW92SR	07/17/2001	ND	5.0000
Cadmium	UG/L	MW92SR	10/22/2001	ND	5.0000
Cadmium	UG/L	MW92SR	01/16/2002	ND	5.0000
Cadmium	UG/L	MW92SR	04/22/2002	ND	5.0000
Cadmium	UG/L	MW92SR	07/17/2002	ND	5.0000
Cadmium	UG/L	MW92SR	10/24/2002	ND	5.0000
Cadmium	UG/L	MW92SR	01/20/2003	ND	5.0000
Cadmium	UG/L	MW92SR	04/21/2003	ND	5.0000

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result
Cadmium	UG/L	MW92SR	07/16/2003	ND	5.0000
Cadmium	UG/L	MW92SR	10/23/2003	ND	5.0000
Cadmium	UG/L	MW92SR	01/20/2004	ND	5.0000
Cadmium	UG/L	MW92SR	01/27/2005	ND	5.0000
Cadmium	UG/L	MW92SR	01/13/2006	ND	5.0000
Cadmium	UG/L	MW92SR	02/08/2007	ND	5.0000
Cadmium	UG/L	MW92SR	02/21/2008	ND	5.0000
Cadmium	UG/L	MW92SR	02/04/2009	ND	5.0000
Cadmium	UG/L	MW92SR	02/08/2010	ND	5.0000
Cadmium	UG/L	MW92SR	02/15/2011	ND	5.0000
Cadmium	UG/L	MW92SR	03/08/2012	ND	5.0000
Cadmium	UG/L	MW92SR	02/14/2013	ND	5.0000
Cadmium	UG/L	MW92SR	02/06/2014	ND	5.0000
Cadmium	UG/L	MW92SR	02/04/2015	ND	5.0000
Cadmium	UG/L	MW92SR	01/29/2016	ND	5.0000
Cadmium	UG/L	MW92SR	01/27/2017	ND	5.0000
Cadmium	UG/L	MW93PR	07/25/1995	ND	5.0000
Cadmium	UG/L	MW93PR	10/25/1995	ND	5.0000
Cadmium	UG/L	MW93PR	01/17/1996	ND	5.0000
Cadmium	UG/L	MW93PR	04/23/1996	ND	5.0000
Cadmium	UG/L	MW93PR	07/18/1996	ND	5.0000
Cadmium	UG/L	MW93PR	10/22/1996	ND	5.0000
Cadmium	UG/L	MW93PR	01/20/1997	ND	5.0000
Cadmium	UG/L	MW93PR	04/22/1997	ND	5.0000
Cadmium	UG/L	MW93PR	07/16/1997	ND	5.0000
Cadmium	UG/L	MW93PR	10/23/1997	ND	5.0000
Cadmium	UG/L	MW93PR	01/21/1998	ND	5.0000
Cadmium	UG/L	MW93PR	04/21/1998	ND	5.0000
Cadmium	UG/L	MW93PR	07/16/1998	ND	5.0000
Cadmium	UG/L	MW93PR	10/20/1998	ND	5.0000
Cadmium	UG/L	MW93PR	01/19/1999	ND	5.0000
Cadmium	UG/L	MW93PR	04/21/1999	ND	5.0000
Cadmium	UG/L	MW93PR	07/20/1999	ND	5.0000
Cadmium	UG/L	MW93PR	10/19/1999	ND	5.0000
Cadmium	UG/L	MW93PR	01/18/2000	ND	5.0000
Cadmium	UG/L	MW93PR	04/19/2000	ND	5.0000
Cadmium	UG/L	MW93PR	07/18/2000	ND	5.0000
Cadmium	UG/L	MW93PR	10/18/2000	ND	5.0000
Cadmium	UG/L	MW93PR	01/17/2001	ND	5.0000
Cadmium	UG/L	MW93PR	04/23/2001	ND	5.0000
Cadmium	UG/L	MW93PR	07/17/2001	ND	5.0000
Cadmium	UG/L	MW93PR	10/22/2001	ND	5.0000
Cadmium	UG/L	MW93PR	01/16/2002	ND	5.0000
Cadmium	UG/L	MW93PR	04/22/2002	ND	5.0000
Cadmium	UG/L	MW93PR	07/17/2002	ND	5.0000
Cadmium	UG/L	MW93PR	10/24/2002	ND	5.0000
Cadmium	UG/L	MW93PR	01/20/2003	ND	5.0000
Cadmium	UG/L	MW93PR	04/21/2003	ND	5.0000
Cadmium	UG/L	MW93PR	07/16/2003	ND	5.0000
Cadmium	UG/L	MW93PR	10/23/2003	ND	5.0000
Cadmium	UG/L	MW93PR	04/20/2004	ND	5.0000
Cadmium	UG/L	MW93PR	04/29/2005	ND	5.0000
Cadmium	UG/L	MW93PR	05/11/2006	ND	5.0000
Cadmium	UG/L	MW93PR	05/02/2007	ND	5.0000
Cadmium	UG/L	MW93PR	04/30/2008	ND	5.0000
Cadmium	UG/L	MW93PR	05/06/2009	ND	5.0000
Cadmium	UG/L	MW93PR	05/12/2010	ND	5.0000

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result
Cadmium	UG/L	MW93PR	05/12/2011	ND	5.0000
Cadmium	UG/L	MW93PR	05/11/2012	ND	5.0000
Cadmium	UG/L	MW93PR	05/09/2013	ND	5.0000
Cadmium	UG/L	MW93PR	04/30/2014	ND	5.0000
Cadmium	UG/L	MW93PR	05/06/2015	ND	5.0000
Cadmium	UG/L	MW93PR	05/03/2016	ND	5.0000
Cadmium	UG/L	MW93PR	04/27/2017	ND	5.0000
Cadmium	UG/L	MW94PR	07/26/1995	ND	5.0000
Cadmium	UG/L	MW94PR	10/25/1995	ND	5.0000
Cadmium	UG/L	MW94PR	01/17/1996	ND	5.0000
Cadmium	UG/L	MW94PR	04/23/1996	ND	5.0000
Cadmium	UG/L	MW94PR	07/18/1996	ND	5.0000
Cadmium	UG/L	MW94PR	10/22/1996	ND	5.0000
Cadmium	UG/L	MW94PR	01/20/1997	ND	5.0000
Cadmium	UG/L	MW94PR	04/23/1997	ND	5.0000
Cadmium	UG/L	MW94PR	07/15/1997	ND	5.0000
Cadmium	UG/L	MW94PR	10/21/1997	ND	5.0000
Cadmium	UG/L	MW94PR	01/15/1998	ND	5.0000
Cadmium	UG/L	MW94PR	04/22/1998	ND	5.0000
Cadmium	UG/L	MW94PR	07/16/1998	ND	5.0000
Cadmium	UG/L	MW94PR	10/21/1998	ND	5.0000
Cadmium	UG/L	MW94PR	01/18/1999	ND	5.0000
Cadmium	UG/L	MW94PR	04/21/1999	ND	5.0000
Cadmium	UG/L	MW94PR	07/19/1999	ND	5.0000
Cadmium	UG/L	MW94PR	10/19/1999	ND	5.0000
Cadmium	UG/L	MW94PR	01/17/2000	ND	5.0000
Cadmium	UG/L	MW94PR	04/19/2000	ND	5.0000
Cadmium	UG/L	MW94PR	07/17/2000	ND	5.0000
Cadmium	UG/L	MW94PR	10/18/2000	ND	5.0000
Cadmium	UG/L	MW94PR	01/18/2001	ND	5.0000
Cadmium	UG/L	MW94PR	04/19/2001	ND	5.0000
Cadmium	UG/L	MW94PR	07/16/2001	ND	5.0000
Cadmium	UG/L	MW94PR	10/18/2001	ND	5.0000
Cadmium	UG/L	MW94PR	01/17/2002	ND	5.0000
Cadmium	UG/L	MW94PR	04/18/2002	ND	5.0000
Cadmium	UG/L	MW94PR	07/17/2002	ND	5.0000
Cadmium	UG/L	MW94PR	10/24/2002	ND	5.0000
Cadmium	UG/L	MW94PR	01/20/2003	ND	5.0000
Cadmium	UG/L	MW94PR	04/21/2003	ND	5.0000
Cadmium	UG/L	MW94PR	07/16/2003	ND	5.0000
Cadmium	UG/L	MW94PR	10/23/2003	ND	5.0000
Cadmium	UG/L	MW94PR	04/20/2004	ND	5.0000
Cadmium	UG/L	MW94PR	04/29/2005	ND	5.0000
Cadmium	UG/L	MW94PR	05/11/2006	ND	5.0000
Cadmium	UG/L	MW94PR	05/03/2007	ND	5.0000
Cadmium	UG/L	MW94PR	05/01/2008	ND	5.0000
Cadmium	UG/L	MW94PR	05/07/2009	ND	5.0000
Cadmium	UG/L	MW94PR	05/14/2010	ND	5.0000
Cadmium	UG/L	MW94PR	05/13/2011	ND	5.0000
Cadmium	UG/L	MW94PR	05/11/2012	ND	5.0000
Cadmium	UG/L	MW94PR	05/09/2013	ND	5.0000
Cadmium	UG/L	MW94PR	04/30/2014	ND	5.0000
Cadmium	UG/L	MW94PR	05/06/2015	ND	5.0000
Cadmium	UG/L	MW94PR	05/03/2016	ND	5.0000
Cadmium	UG/L	MW94PR	04/28/2017	ND	5.0000
Cadmium	UG/L	MW95P	02/10/1993	ND	5.0000
Cadmium	UG/L	MW95P	04/14/1993	ND	5.0000

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result
Cadmium	UG/L	MW95P	08/10/1993	ND	5.0000
Cadmium	UG/L	MW95P	10/13/1993	ND	5.0000
Cadmium	UG/L	MW95P	02/14/1994	ND	5.0000
Cadmium	UG/L	MW95P	05/09/1994	ND	5.0000
Cadmium	UG/L	MW95P	07/20/1994	ND	5.0000
Cadmium	UG/L	MW95P	10/20/1994	ND	5.0000
Cadmium	UG/L	MW95P	01/17/1995	ND	5.0000
Cadmium	UG/L	MW95P	04/24/1995	ND	5.0000
Cadmium	UG/L	MW95P	07/25/1995	ND	5.0000
Cadmium	UG/L	MW95P	10/23/1995	ND	5.0000
Cadmium	UG/L	MW95P	01/23/1996	ND	5.0000
Cadmium	UG/L	MW95P	04/15/1996	ND	5.0000
Cadmium	UG/L	MW95P	07/18/1996	ND	5.0000
Cadmium	UG/L	MW95P	10/22/1996	ND	5.0000
Cadmium	UG/L	MW95P	01/20/1997	ND	5.0000
Cadmium	UG/L	MW95P	04/22/1997	ND	5.0000
Cadmium	UG/L	MW95P	07/16/1997	ND	5.0000
Cadmium	UG/L	MW95P	10/16/1997	ND	5.0000
Cadmium	UG/L	MW95P	01/15/1998	ND	5.0000
Cadmium	UG/L	MW95P	04/21/1998	ND	5.0000
Cadmium	UG/L	MW95P	07/16/1998	ND	5.0000
Cadmium	UG/L	MW95P	10/19/1998	ND	5.0000
Cadmium	UG/L	MW95P	01/19/1999	ND	5.0000
Cadmium	UG/L	MW95P	04/21/1999	ND	5.0000
Cadmium	UG/L	MW95P	07/20/1999	ND	5.0000
Cadmium	UG/L	MW95P	10/19/1999	ND	5.0000
Cadmium	UG/L	MW95P	01/18/2000	ND	5.0000
Cadmium	UG/L	MW95P	04/19/2000	ND	5.0000
Cadmium	UG/L	MW95P	07/18/2000	ND	5.0000
Cadmium	UG/L	MW95P	10/18/2000	ND	5.0000
Cadmium	UG/L	MW95P	01/17/2001	ND	5.0000
Cadmium	UG/L	MW95P	04/23/2001	ND	5.0000
Cadmium	UG/L	MW95P	07/17/2001	ND	5.0000
Cadmium	UG/L	MW95P	10/22/2001	ND	5.0000
Cadmium	UG/L	MW95P	01/16/2002	ND	5.0000
Cadmium	UG/L	MW95P	04/22/2002	ND	5.0000
Cadmium	UG/L	MW95P	07/17/2002	ND	5.0000
Cadmium	UG/L	MW95P	10/24/2002	ND	5.0000
Cadmium	UG/L	MW95P	01/20/2003	ND	5.0000
Cadmium	UG/L	MW95P	04/21/2003	ND	5.0000
Cadmium	UG/L	MW95P	07/16/2003	ND	5.0000
Cadmium	UG/L	MW95P	10/23/2003	ND	5.0000
Cadmium	UG/L	MW95P	04/20/2004	ND	5.0000
Cadmium	UG/L	MW95P	04/29/2005	ND	5.0000
Cadmium	UG/L	MW95P	05/11/2006	ND	5.0000
Cadmium	UG/L	MW95P	05/02/2007	ND	5.0000
Cadmium	UG/L	MW95P	04/30/2008	ND	5.0000
Cadmium	UG/L	MW95P	05/06/2009	ND	5.0000
Cadmium	UG/L	MW95P	05/12/2010	ND	5.0000
Cadmium	UG/L	MW95P	05/11/2011	ND	5.0000
Cadmium	UG/L	MW95P	05/11/2012	ND	5.0000
Cadmium	UG/L	MW95P	05/09/2013	ND	5.0000
Cadmium	UG/L	MW95P	04/23/2014	ND	5.0000
Cadmium	UG/L	MW95P	04/30/2015	ND	5.0000
Cadmium	UG/L	MW95P	04/28/2016	ND	5.0000
Cadmium	UG/L	MW95P	04/20/2017	ND	5.0000
Cadmium	UG/L	MW96T	04/14/1993	ND	5.0000

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result
Cadmium	UG/L	MW96T	08/11/1993	ND	5.0000
Cadmium	UG/L	MW96T	10/13/1993	ND	5.0000
Cadmium	UG/L	MW96T	01/04/1994	ND	5.0000
Cadmium	UG/L	MW96T	04/05/1994	ND	5.0000
Cadmium	UG/L	MW96T	07/19/1994	ND	5.0000
Cadmium	UG/L	MW96T	10/20/1994	ND	5.0000
Cadmium	UG/L	MW96T	01/17/1995	ND	5.0000
Cadmium	UG/L	MW96T	04/24/1995	ND	5.0000
Cadmium	UG/L	MW96T	07/25/1995	ND	5.0000
Cadmium	UG/L	MW96T	10/11/1995	ND	5.0000
Cadmium	UG/L	MW96T	01/17/1996	ND	5.0000
Cadmium	UG/L	MW96T	04/18/1996	ND	5.0000
Cadmium	UG/L	MW96T	07/18/1996	ND	5.0000
Cadmium	UG/L	MW96T	10/22/1996	ND	5.0000
Cadmium	UG/L	MW96T	01/21/1997	ND	5.0000
Cadmium	UG/L	MW96T	04/22/1997	ND	5.0000
Cadmium	UG/L	MW96T	07/15/1997	ND	5.0000
Cadmium	UG/L	MW96T	10/21/1997	ND	5.0000
Cadmium	UG/L	MW96T	01/15/1998	ND	5.0000
Cadmium	UG/L	MW96T	04/22/1998	ND	5.0000
Cadmium	UG/L	MW96T	07/16/1998	ND	5.0000
Cadmium	UG/L	MW96T	10/20/1998	ND	5.0000
Cadmium	UG/L	MW96T	01/20/1999	ND	5.0000
Cadmium	UG/L	MW96T	04/21/1999	ND	5.0000
Cadmium	UG/L	MW96T	07/20/1999	ND	5.0000
Cadmium	UG/L	MW96T	10/19/1999	ND	5.0000
Cadmium	UG/L	MW96T	01/19/2000	ND	5.0000
Cadmium	UG/L	MW96T	04/19/2000	ND	5.0000
Cadmium	UG/L	MW96T	07/19/2000	ND	5.0000
Cadmium	UG/L	MW96T	10/18/2000	ND	5.0000
Cadmium	UG/L	MW96T	01/17/2001	ND	5.0000
Cadmium	UG/L	MW96T	04/19/2001	ND	5.0000
Cadmium	UG/L	MW96T	07/18/2001	ND	5.0000
Cadmium	UG/L	MW96T	10/18/2001	ND	5.0000
Cadmium	UG/L	MW96T	01/16/2002	ND	5.0000
Cadmium	UG/L	MW96T	04/18/2002	ND	5.0000
Cadmium	UG/L	MW96T	07/18/2002	ND	5.0000
Cadmium	UG/L	MW96T	10/24/2002	ND	5.0000
Cadmium	UG/L	MW96T	01/21/2003	ND	5.0000
Cadmium	UG/L	MW96T	04/21/2003	ND	5.0000
Cadmium	UG/L	MW96T	07/16/2003	ND	5.0000
Cadmium	UG/L	MW96T	10/23/2003	ND	5.0000
Cadmium	UG/L	MW96T	01/20/2004	ND	5.0000
Cadmium	UG/L	MW96T	01/27/2005	ND	5.0000
Cadmium	UG/L	MW96T	01/17/2006	ND	5.0000
Cadmium	UG/L	MW96T	02/08/2007	ND	5.0000
Cadmium	UG/L	MW96T	02/22/2008	ND	5.0000
Cadmium	UG/L	MW96T	02/06/2009	ND	5.0000
Cadmium	UG/L	MW96T	02/09/2010	ND	5.0000
Cadmium	UG/L	MW96T	02/17/2011	ND	5.0000
Cadmium	UG/L	MW96T	03/09/2012	ND	5.0000
Cadmium	UG/L	MW96T	02/19/2013	ND	5.0000
Cadmium	UG/L	MW96T	02/07/2014	ND	5.0000
Cadmium	UG/L	MW96T	02/04/2015	ND	5.0000
Cadmium	UG/L	MW96T	02/10/2016	ND	5.0000
Cadmium	UG/L	MW96T	02/01/2017	ND	5.0000
Cadmium	UG/L	MW97T	02/10/1993	ND	5.0000

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result
Cadmium	UG/L	MW97T	04/14/1993	ND	5.0000
Cadmium	UG/L	MW97T	08/10/1993	ND	5.0000
Cadmium	UG/L	MW97T	10/13/1993	ND	5.0000
Cadmium	UG/L	MW97T	02/16/1994	ND	5.0000
Cadmium	UG/L	MW97T	05/09/1994	ND	5.0000
Cadmium	UG/L	MW97T	07/20/1994	ND	5.0000
Cadmium	UG/L	MW97T	10/24/1994	ND	5.0000
Cadmium	UG/L	MW97T	01/17/1995	ND	5.0000
Cadmium	UG/L	MW97T	04/07/1995	ND	5.0000
Cadmium	UG/L	MW97T	07/25/1995	ND	5.0000
Cadmium	UG/L	MW98TR	07/25/1995	ND	5.0000
Cadmium	UG/L	MW98TR	10/25/1995	ND	5.0000
Cadmium	UG/L	MW98TR	01/17/1996	ND	5.0000
Cadmium	UG/L	MW98TR	04/23/1996	ND	5.0000
Cadmium	UG/L	MW98TR	07/18/1996	ND	5.0000
Cadmium	UG/L	MW98TR	10/22/1996	ND	5.0000
Cadmium	UG/L	MW98TR	01/21/1997	ND	5.0000
Cadmium	UG/L	MW98TR	04/22/1997	ND	5.0000
Cadmium	UG/L	MW98TR	07/15/1997	ND	5.0000
Cadmium	UG/L	MW98TR	10/21/1997	ND	5.0000
Cadmium	UG/L	MW98TR	01/20/1998	ND	5.0000
Cadmium	UG/L	MW98TR	07/16/1998	ND	5.0000
Cadmium	UG/L	MW98TR	10/20/1998	ND	5.0000
Cadmium	UG/L	MW98TR	01/20/1999	ND	5.0000
Cadmium	UG/L	MW98TR	04/21/1999	ND	5.0000
Cadmium	UG/L	MW98TR	07/20/1999	ND	5.0000
Cadmium	UG/L	MW98TR	10/19/1999	ND	5.0000
Cadmium	UG/L	MW98TR	01/19/2000	ND	5.0000
Cadmium	UG/L	MW98TR	04/19/2000	ND	5.0000
Cadmium	UG/L	MW98TR	07/19/2000	ND	5.0000
Cadmium	UG/L	MW98TR	10/18/2000	ND	5.0000
Cadmium	UG/L	MW98TR	01/17/2001	ND	5.0000
Cadmium	UG/L	MW98TR	04/19/2001	ND	5.0000
Cadmium	UG/L	MW98TR	07/18/2001	ND	5.0000
Cadmium	UG/L	MW98TR	10/18/2001	ND	5.0000
Cadmium	UG/L	MW98TR	01/16/2002	ND	5.0000
Cadmium	UG/L	MW98TR	04/18/2002	ND	5.0000
Cadmium	UG/L	MW98TR	07/18/2002	ND	5.0000
Cadmium	UG/L	MW98TR	10/24/2002	ND	5.0000
Cadmium	UG/L	MW98TR	01/21/2003	ND	5.0000
Cadmium	UG/L	MW98TR	04/21/2003	ND	5.0000
Cadmium	UG/L	MW98TR	07/16/2003	ND	5.0000
Cadmium	UG/L	MW98TR	10/23/2003	ND	5.0000
Cadmium	UG/L	MW98TR	01/20/2004	ND	5.0000
Cadmium	UG/L	MW98TR	01/27/2005	ND	5.0000
Cadmium	UG/L	MW98TR	01/17/2006	ND	5.0000
Cadmium	UG/L	MW98TR	02/08/2007	ND	5.0000
Cadmium	UG/L	MW98TR	02/22/2008	ND	5.0000
Cadmium	UG/L	MW98TR	02/06/2009	ND	5.0000
Cadmium	UG/L	MW98TR	02/09/2010	ND	5.0000
Cadmium	UG/L	MW98TR	02/17/2011	ND	5.0000
Cadmium	UG/L	MW98TR	03/09/2012	ND	5.0000
Cadmium	UG/L	MW98TR	02/15/2013	ND	5.0000
Cadmium	UG/L	MW98TR	02/06/2014	ND	5.0000
Cadmium	UG/L	MW98TR	02/04/2015	ND	5.0000
Cadmium	UG/L	MW98TR	02/10/2016	ND	5.0000
Cadmium	UG/L	MW98TR	02/01/2017	ND	5.0000

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	
Cadmium	UG/L	PSDL17A	01/05/1993	ND	5.0000	
Cadmium	UG/L	PSDL17A	03/09/1993	ND	5.0000	
Cadmium	UG/L	PSDL17A	05/06/1993	ND	5.0000	
Cadmium	UG/L	PSDL17A	06/09/1993	ND	5.0000	
Cadmium	UG/L	PSDL17A	07/08/1993	ND	5.0000	
Cadmium	UG/L	PSDL17A	09/02/1993	ND	5.0000	
Cadmium	UG/L	PSDL17A	11/03/1993	ND	5.0000	
Cadmium	UG/L	PSDL17A	12/08/1993	ND	5.0000	
Cadmium	UG/L	PSDL17A	02/15/1994	ND	5.0000	
Cadmium	UG/L	PSDL17A	05/09/1994	ND	5.0000	
Cadmium	UG/L	PSDL17A	07/06/1994	ND	5.0000	
Cadmium	UG/L	PSDL17A	10/20/1994	ND	5.0000	
Cadmium	UG/L	PSDL17A	01/09/1995	ND	5.0000	
Cadmium	UG/L	PSDL17A	04/07/1995	ND	5.0000	
Cadmium	UG/L	PSDL17A	07/17/1995	ND	5.0000	
Cadmium	UG/L	PSDL17A	10/11/1995	ND	5.0000	
Cadmium	UG/L	PSDL17A	01/16/1996	ND	5.0000	
Cadmium	UG/L	PSDL17A	04/10/1996	ND	5.0000	
Cadmium	UG/L	PSDL17A	07/18/1996	ND	5.0000	
Cadmium	UG/L	PSDL17A	10/22/1996	ND	5.0000	
Cadmium	UG/L	PSDL17A	01/20/1997	ND	5.0000	
Cadmium	UG/L	PSDL17A	04/22/1997	ND	5.0000	
Cadmium	UG/L	PSDL17A	07/16/1997	ND	5.0000	
Cadmium	UG/L	PSDL17A	10/16/1997	ND	5.0000	
Cadmium	UG/L	PSDL17A	01/20/1998	ND	5.0000	
Cadmium	UG/L	PSDL17A	04/22/1998	ND	5.0000	
Cadmium	UG/L	PSDL17A	07/16/1998	ND	5.0000	
Cadmium	UG/L	PSDL17A	10/19/1998	ND	5.0000	
Cadmium	UG/L	PSDL17A	01/19/1999	ND	5.0000	
Cadmium	UG/L	PSDL17A	04/20/1999	ND	5.0000	
Cadmium	UG/L	PSDL17A	07/20/1999	ND	5.0000	
Cadmium	UG/L	PSDL17A	10/18/1999	ND	5.0000	
Cadmium	UG/L	PSDL17A	01/18/2000	ND	5.0000	
Cadmium	UG/L	PSDL17A	04/18/2000	ND	5.0000	
Cadmium	UG/L	PSDL17A	07/18/2000	ND	5.0000	
Cadmium	UG/L	PSDL17A	10/17/2000	ND	5.0000	
Cadmium	UG/L	PSDL17A	01/16/2001	ND	5.0000	
Cadmium	UG/L	PSDL17A	04/18/2001	ND	5.0000	
Cadmium	UG/L	PSDL17A	07/17/2001	ND	5.0000	
Cadmium	UG/L	PSDL17A	10/17/2001	ND	5.0000	
Cadmium	UG/L	PSDL17A	01/16/2002	ND	5.0000	
Cadmium	UG/L	PSDL17A	04/16/2002	ND	5.0000	
Cadmium	UG/L	PSDL17A	07/17/2002	ND	5.0000	
Cadmium	UG/L	PSDL17A	10/22/2002	ND	5.0000	
Cadmium	UG/L	PSDL17A	01/20/2003	ND	5.0000	
Cadmium	UG/L	PSDL17A	04/21/2003	ND	5.0000	
Cadmium	UG/L	PSDL17A	07/15/2003	ND	5.0000	
Cadmium	UG/L	PSDL17A	10/23/2003	ND	5.0000	
Cadmium	UG/L	PSDL17A	01/19/2004	ND	5.0000	
Cadmium	UG/L	PSDL17A	01/26/2005	ND	5.0000	
Cadmium	UG/L	PSDL17A	01/13/2006	ND	5.0000	
Cadmium	UG/L	PSDL17A	02/07/2007	ND	5.0000	
Cadmium	UG/L	PSDL17A	02/21/2008	ND	5.0000	
Cadmium	UG/L	PSDL17A	02/05/2009	ND	5.0000	
Cadmium	UG/L	PSDL17A	02/09/2010	ND	5.0000	
Cadmium	UG/L	PSDL17A	02/15/2011	ND	5.0000	
Cadmium	UG/L	PSDL17A	03/08/2012	ND	5.0000	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	
Cadmium	UG/L	PSDL17A	02/14/2013	ND	5.0000	
Cadmium	UG/L	PSDL17A	02/06/2014	ND	5.0000	
Cadmium	UG/L	PSDL17A	02/04/2015	ND	5.0000	
Cadmium	UG/L	PSDL17A	02/05/2016	ND	5.0000	
Cadmium	UG/L	PSDL17A	01/31/2017	ND	5.0000	
Cadmium	UG/L	UBC25	02/09/1993	ND	5.0000	
Cadmium	UG/L	UBC25	04/14/1993	ND	5.0000	
Cadmium	UG/L	UBC25	08/05/1993	ND	5.0000	
Cadmium	UG/L	UBC25	10/12/1993	ND	5.0000	
Cadmium	UG/L	UBC25	02/14/1994	ND	5.0000	
Cadmium	UG/L	UBC25	05/09/1994	ND	5.0000	
Cadmium	UG/L	UBC25	10/20/1994	ND	5.0000	
Cadmium	UG/L	UBC25	04/20/1995	ND	5.0000	
Cadmium	UG/L	UBC25	10/25/1995	ND	5.0000	
Cadmium	UG/L	UBC25	04/23/1996	ND	5.0000	
Cadmium	UG/L	UBC25	10/22/1996	ND	5.0000	
Cadmium	UG/L	UBC25	04/22/1997	ND	5.0000	
Cadmium	UG/L	UBC25	10/21/1997	ND	5.0000	
Cadmium	UG/L	UBC25	04/21/1998	ND	5.0000	
Cadmium	UG/L	UBC25	10/20/1998	ND	5.0000	
Cadmium	UG/L	UBC25	04/21/1999	ND	5.0000	
Cadmium	UG/L	UBC25	10/19/1999	ND	5.0000	
Cadmium	UG/L	UBC25	04/19/2000	ND	5.0000	
Cadmium	UG/L	UBC25	07/19/2000	ND	5.0000	
Cadmium	UG/L	UBC25	10/18/2000	ND	5.0000	
Cadmium	UG/L	UBC25	04/23/2001	ND	5.0000	
Cadmium	UG/L	UBC25	10/22/2001	ND	5.0000	
Cadmium	UG/L	UBC25	04/22/2002	ND	5.0000	
Cadmium	UG/L	UBC25	10/24/2002	ND	5.0000	
Cadmium	UG/L	UBC25	04/21/2003	ND	5.0000	
Cadmium	UG/L	UBC25	10/23/2003	ND	5.0000	
Cadmium	UG/L	UBC25	07/20/2004	ND	5.0000	
Cadmium	UG/L	UBC25	07/28/2005	ND	5.0000	
Cadmium	UG/L	UBC25	08/09/2006	ND	5.0000	
Cadmium	UG/L	UBC25	08/10/2007	ND	5.0000	
Cadmium	UG/L	UBC25	08/08/2008	ND	5.0000	
Cadmium	UG/L	UBC25	07/31/2009	ND	5.0000	
Cadmium	UG/L	UBC25	08/06/2010	ND	5.0000	
Cadmium	UG/L	UBC25	08/08/2011	ND	5.0000	
Cadmium	UG/L	UBC25	08/13/2012	ND	5.0000	
Cadmium	UG/L	UBC25	08/08/2013	ND	5.0000	
Cadmium	UG/L	UBC25	07/30/2014	ND	5.0000	
Cadmium	UG/L	UBC25	08/17/2015	ND	5.0000	
Cadmium	UG/L	UBC25	08/19/2016	ND	5.0000	
Cadmium	UG/L	UBC25	07/27/2017	ND	5.0000	
Cadmium	UG/L	UBC27	02/09/1993	ND	5.0000	
Cadmium	UG/L	UBC27	04/14/1993	ND	5.0000	
Cadmium	UG/L	UBC27	08/11/1993	ND	5.0000	
Cadmium	UG/L	UBC27	10/13/1993	ND	5.0000	
Cadmium	UG/L	UBC27	02/14/1994	ND	5.0000	
Cadmium	UG/L	UBC27	05/11/1994	ND	5.0000	
Cadmium	UG/L	UBC27	10/20/1994	ND	5.0000	
Cadmium	UG/L	UBC27	04/20/1995	ND	5.0000	
Cadmium	UG/L	UBC27	10/25/1995	ND	5.0000	
Cadmium	UG/L	UBC27	04/23/1996	ND	5.0000	
Cadmium	UG/L	UBC27	10/22/1996	ND	5.0000	
Cadmium	UG/L	UBC27	04/22/1997	ND	5.0000	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result
Cadmium	UG/L	UBC27	10/23/1997	ND	5.0000
Cadmium	UG/L	UBC27	04/21/1998	ND	5.0000
Cadmium	UG/L	UBC27	10/20/1998	ND	5.0000
Cadmium	UG/L	UBC27	04/21/1999	ND	5.0000
Cadmium	UG/L	UBC27	10/19/1999	ND	5.0000
Cadmium	UG/L	UBC27	04/19/2000	ND	5.0000
Cadmium	UG/L	UBC27	07/18/2000	ND	5.0000
Cadmium	UG/L	UBC27	10/18/2000	ND	5.0000
Cadmium	UG/L	UBC27	04/23/2001	ND	5.0000
Cadmium	UG/L	UBC27	10/22/2001	ND	5.0000
Cadmium	UG/L	UBC27	04/22/2002	ND	5.0000
Cadmium	UG/L	UBC27	10/24/2002	ND	5.0000
Cadmium	UG/L	UBC27	04/21/2003	ND	5.0000
Cadmium	UG/L	UBC27	10/23/2003	ND	5.0000
Cadmium	UG/L	UBC27	07/20/2004	ND	5.0000
Cadmium	UG/L	UBC27	07/28/2005	ND	5.0000
Cadmium	UG/L	UBC27	08/09/2006	ND	5.0000
Cadmium	UG/L	UBC27	08/10/2007	ND	5.0000
Cadmium	UG/L	UBC27	08/08/2008	ND	5.0000
Cadmium	UG/L	UBC27	07/31/2009	ND	5.0000
Cadmium	UG/L	UBC27	08/06/2010	ND	5.0000
Cadmium	UG/L	UBC27	08/08/2011	ND	5.0000
Cadmium	UG/L	UBC27	08/13/2012	ND	5.0000
Cadmium	UG/L	UBC27	08/08/2013	ND	5.0000
Cadmium	UG/L	UBC27	07/30/2014	ND	5.0000
Cadmium	UG/L	UBC27	08/17/2015	ND	5.0000
Cadmium	UG/L	UBC27	08/19/2016	ND	5.0000
Cadmium	UG/L	UBC27	07/27/2017	ND	5.0000
Cadmium	UG/L	UBC28AR	10/25/1995	ND	5.0000
Cadmium	UG/L	UBC28AR	04/18/1996	ND	5.0000
Cadmium	UG/L	UBC28AR	10/17/1996	ND	5.0000
Cadmium	UG/L	UBC28AR	04/22/1997	ND	5.0000
Cadmium	UG/L	UBC28AR	10/16/1997	ND	5.0000
Cadmium	UG/L	UBC28AR	04/21/1998	ND	5.0000
Cadmium	UG/L	UBC28AR	10/19/1998	ND	5.0000
Cadmium	UG/L	UBC28AR	04/21/1999	ND	5.0000
Cadmium	UG/L	UBC28AR	10/19/1999		330.0000
Cadmium	UG/L	UBC28AR	04/19/2000	ND	5.0000
Cadmium	UG/L	UBC28AR	07/19/2000	ND	5.0000
Cadmium	UG/L	UBC28AR	10/18/2000	ND	5.0000
Cadmium	UG/L	UBC28AR	04/23/2001	ND	5.0000
Cadmium	UG/L	UBC28AR	10/22/2001	ND	5.0000
Cadmium	UG/L	UBC28AR	04/22/2002	ND	5.0000
Cadmium	UG/L	UBC28AR	10/24/2002	ND	5.0000
Cadmium	UG/L	UBC28AR	04/21/2003	ND	5.0000
Cadmium	UG/L	UBC28AR	10/23/2003	ND	5.0000
Cadmium	UG/L	UBC28AR	07/20/2004	ND	5.0000
Cadmium	UG/L	UBC28AR	07/28/2005	ND	5.0000
Cadmium	UG/L	UBC28AR	08/09/2006	ND	5.0000
Cadmium	UG/L	UBC28AR	08/10/2007	ND	5.0000
Cadmium	UG/L	UBC28AR	08/08/2008	ND	5.0000
Cadmium	UG/L	UBC28AR	07/31/2009	ND	5.0000
Cadmium	UG/L	UBC28AR	08/06/2010	ND	5.0000
Cadmium	UG/L	UBC28AR	08/05/2011	ND	5.0000
Cadmium	UG/L	UBC28AR	08/10/2012	ND	5.0000
Cadmium	UG/L	UBC28AR	08/08/2013	ND	5.0000
Cadmium	UG/L	UBC28AR	07/30/2014	ND	5.0000

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result
Cadmium	UG/L	UBC28AR	08/14/2015	ND	5.0000
Cadmium	UG/L	UBC28AR	08/10/2016	ND	5.0000
Cadmium	UG/L	UBC28AR	07/27/2017	ND	5.0000
Chromium	UG/L	MW1	01/11/1993	ND	20.0000
Chromium	UG/L	MW1	03/04/1993	ND	20.0000
Chromium	UG/L	MW1	05/03/1993	ND	20.0000
Chromium	UG/L	MW1	06/03/1993	ND	20.0000
Chromium	UG/L	MW1	07/06/1993	ND	20.0000
Chromium	UG/L	MW1	09/07/1993	ND	20.0000
Chromium	UG/L	MW1	11/04/1993	ND	20.0000
Chromium	UG/L	MW1	12/06/1993		37.0000
Chromium	UG/L	MW1	02/14/1994	ND	20.0000
Chromium	UG/L	MW1	05/11/1994	ND	20.0000
Chromium	UG/L	MW1	07/19/1994	ND	20.0000
Chromium	UG/L	MW1	10/19/1994	ND	20.0000
Chromium	UG/L	MW1	01/16/1995	ND	20.0000
Chromium	UG/L	MW1	04/19/1995	ND	20.0000
Chromium	UG/L	MW1	07/24/1995	ND	25.0000
Chromium	UG/L	MW1	10/24/1995	ND	20.0000
Chromium	UG/L	MW1	01/22/1996	ND	20.0000
Chromium	UG/L	MW1	04/22/1996	ND	20.0000
Chromium	UG/L	MW1	07/22/1996	ND	20.0000
Chromium	UG/L	MW1	10/21/1996	ND	20.0000
Chromium	UG/L	MW1	01/20/1997	ND	20.0000
Chromium	UG/L	MW1	04/21/1997	ND	20.0000
Chromium	UG/L	MW1	07/15/1997	ND	20.0000
Chromium	UG/L	MW1	10/16/1997	ND	20.0000
Chromium	UG/L	MW1	01/19/1998	ND	20.0000
Chromium	UG/L	MW1	04/20/1998	ND	20.0000
Chromium	UG/L	MW1	07/15/1998	ND	20.0000
Chromium	UG/L	MW1	10/19/1998	ND	20.0000
Chromium	UG/L	MW1	01/18/1999	ND	20.0000
Chromium	UG/L	MW1	04/20/1999	ND	20.0000
Chromium	UG/L	MW1	07/19/1999	ND	20.0000
Chromium	UG/L	MW1	10/18/1999	ND	20.0000
Chromium	UG/L	MW1	01/17/2000	ND	20.0000
Chromium	UG/L	MW1	04/18/2000	ND	20.0000
Chromium	UG/L	MW1	07/17/2000	ND	20.0000
Chromium	UG/L	MW1	10/17/2000	ND	20.0000
Chromium	UG/L	MW1	01/16/2001	ND	20.0000
Chromium	UG/L	MW1	04/18/2001	ND	20.0000
Chromium	UG/L	MW1	07/16/2001	ND	20.0000
Chromium	UG/L	MW1	10/17/2001	ND	20.0000
Chromium	UG/L	MW1	01/15/2002	ND	20.0000
Chromium	UG/L	MW1	04/16/2002	ND	20.0000
Chromium	UG/L	MW1	07/16/2002	ND	20.0000
Chromium	UG/L	MW1	10/22/2002	ND	20.0000
Chromium	UG/L	MW1	01/20/2003	ND	20.0000
Chromium	UG/L	MW1	04/16/2003	ND	20.0000
Chromium	UG/L	MW1	07/14/2003	ND	20.0000
Chromium	UG/L	MW1	10/21/2003	ND	20.0000
Chromium	UG/L	MW1	01/19/2004	ND	20.0000
Chromium	UG/L	MW1	01/26/2005	ND	20.0000
Chromium	UG/L	MW1	01/12/2006	ND	20.0000
Chromium	UG/L	MW1	02/07/2007	ND	20.0000
Chromium	UG/L	MW126T	11/08/1995	ND	20.0000
Chromium	UG/L	MW126T	02/29/1996	ND	20.0000

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result
Chromium	UG/L	MW126T	04/23/1996	ND	20.0000
Chromium	UG/L	MW126T	07/22/1996	ND	20.0000
Chromium	UG/L	MW126T	10/21/1996	ND	20.0000
Chromium	UG/L	MW126T	01/20/1997	ND	20.0000
Chromium	UG/L	MW126T	04/23/1997	ND	20.0000
Chromium	UG/L	MW126T	07/15/1997	ND	20.0000
Chromium	UG/L	MW126T	10/16/1997	ND	20.0000
Chromium	UG/L	MW126T	01/19/1998	ND	20.0000
Chromium	UG/L	MW126T	04/16/1998	ND	20.0000
Chromium	UG/L	MW126T	07/16/1998	ND	20.0000
Chromium	UG/L	MW126T	10/15/1998	ND	20.0000
Chromium	UG/L	MW126T	01/18/1999	ND	20.0000
Chromium	UG/L	MW126T	04/21/1999	ND	20.0000
Chromium	UG/L	MW126T	07/19/1999	ND	20.0000
Chromium	UG/L	MW126T	10/20/1999	ND	20.0000
Chromium	UG/L	MW126T	01/17/2000	ND	20.0000
Chromium	UG/L	MW126T	04/19/2000	ND	20.0000
Chromium	UG/L	MW126T	07/17/2000	ND	20.0000
Chromium	UG/L	MW126T	10/18/2000	ND	20.0000
Chromium	UG/L	MW126T	01/18/2001	ND	20.0000
Chromium	UG/L	MW126T	04/19/2001	ND	20.0000
Chromium	UG/L	MW126T	07/16/2001	ND	20.0000
Chromium	UG/L	MW126T	10/18/2001	ND	20.0000
Chromium	UG/L	MW126T	01/17/2002	ND	20.0000
Chromium	UG/L	MW126T	04/18/2002	ND	20.0000
Chromium	UG/L	MW126T	07/17/2002	ND	20.0000
Chromium	UG/L	MW126T	10/24/2002	ND	20.0000
Chromium	UG/L	MW126T	01/20/2003	ND	20.0000
Chromium	UG/L	MW126T	04/21/2003	ND	20.0000
Chromium	UG/L	MW126T	07/16/2003	ND	20.0000
Chromium	UG/L	MW126T	10/23/2003	ND	20.0000
Chromium	UG/L	MW126T	01/19/2004	ND	20.0000
Chromium	UG/L	MW126T	01/26/2005	ND	20.0000
Chromium	UG/L	MW126T	01/16/2006	ND	20.0000
Chromium	UG/L	MW126T	02/09/2007	ND	20.0000
Chromium	UG/L	MW126T	02/22/2008	ND	20.0000
Chromium	UG/L	MW126T	02/06/2009	ND	20.0000
Chromium	UG/L	MW126T	02/10/2010	ND	5.0000
Chromium	UG/L	MW126T	02/17/2011	ND	20.0000
Chromium	UG/L	MW126T	03/09/2012	ND	20.0000
Chromium	UG/L	MW126T	02/15/2013	ND	20.0000
Chromium	UG/L	MW126T	02/06/2014	ND	20.0000
Chromium	UG/L	MW126T	02/05/2015	ND	20.0000
Chromium	UG/L	MW126T	02/10/2016	ND	20.0000
Chromium	UG/L	MW126T	02/02/2017	ND	20.0000
Chromium	UG/L	MW92SR	07/25/1995	ND	25.0000
Chromium	UG/L	MW92SR	10/25/1995	ND	20.0000
Chromium	UG/L	MW92SR	01/17/1996	ND	20.0000
Chromium	UG/L	MW92SR	04/23/1996	ND	20.0000
Chromium	UG/L	MW92SR	07/18/1996	ND	20.0000
Chromium	UG/L	MW92SR	10/22/1996	ND	20.0000
Chromium	UG/L	MW92SR	01/20/1997	ND	20.0000
Chromium	UG/L	MW92SR	04/22/1997	ND	20.0000
Chromium	UG/L	MW92SR	07/16/1997	ND	20.0000
Chromium	UG/L	MW92SR	10/21/1997	ND	20.0000
Chromium	UG/L	MW92SR	01/21/1998	ND	20.0000
Chromium	UG/L	MW92SR	04/21/1998	ND	20.0000

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result
Chromium	UG/L	MW92SR	07/16/1998	ND	20.0000
Chromium	UG/L	MW92SR	10/20/1998	ND	20.0000
Chromium	UG/L	MW92SR	01/19/1999	ND	20.0000
Chromium	UG/L	MW92SR	04/21/1999	ND	20.0000
Chromium	UG/L	MW92SR	07/20/1999	ND	20.0000
Chromium	UG/L	MW92SR	10/19/1999	ND	20.0000
Chromium	UG/L	MW92SR	01/18/2000	ND	20.0000
Chromium	UG/L	MW92SR	04/19/2000	ND	20.0000
Chromium	UG/L	MW92SR	07/18/2000	ND	20.0000
Chromium	UG/L	MW92SR	10/18/2000	ND	20.0000
Chromium	UG/L	MW92SR	01/17/2001	ND	20.0000
Chromium	UG/L	MW92SR	04/23/2001	ND	20.0000
Chromium	UG/L	MW92SR	07/17/2001	ND	20.0000
Chromium	UG/L	MW92SR	10/22/2001	ND	20.0000
Chromium	UG/L	MW92SR	01/16/2002	ND	20.0000
Chromium	UG/L	MW92SR	04/22/2002	ND	20.0000
Chromium	UG/L	MW92SR	07/17/2002	ND	20.0000
Chromium	UG/L	MW92SR	10/24/2002	ND	20.0000
Chromium	UG/L	MW92SR	01/20/2003	ND	20.0000
Chromium	UG/L	MW92SR	04/21/2003	ND	20.0000
Chromium	UG/L	MW92SR	07/16/2003	ND	20.0000
Chromium	UG/L	MW92SR	10/23/2003	ND	20.0000
Chromium	UG/L	MW92SR	01/20/2004	ND	20.0000
Chromium	UG/L	MW92SR	01/27/2005	ND	20.0000
Chromium	UG/L	MW92SR	01/13/2006	ND	20.0000
Chromium	UG/L	MW92SR	02/08/2007	ND	20.0000
Chromium	UG/L	MW92SR	02/21/2008	ND	20.0000
Chromium	UG/L	MW92SR	02/04/2009	ND	20.0000
Chromium	UG/L	MW92SR	02/08/2010	ND	5.0000
Chromium	UG/L	MW92SR	02/15/2011	ND	20.0000
Chromium	UG/L	MW92SR	03/08/2012	ND	20.0000
Chromium	UG/L	MW92SR	02/14/2013	ND	20.0000
Chromium	UG/L	MW92SR	02/06/2014	ND	20.0000
Chromium	UG/L	MW92SR	02/04/2015	ND	20.0000
Chromium	UG/L	MW92SR	01/29/2016	ND	20.0000
Chromium	UG/L	MW92SR	01/27/2017	ND	20.0000
Chromium	UG/L	MW93PR	07/25/1995	ND	25.0000
Chromium	UG/L	MW93PR	10/25/1995	ND	20.0000
Chromium	UG/L	MW93PR	01/17/1996	ND	20.0000
Chromium	UG/L	MW93PR	04/23/1996	ND	20.0000
Chromium	UG/L	MW93PR	07/18/1996	ND	20.0000
Chromium	UG/L	MW93PR	10/22/1996	ND	20.0000
Chromium	UG/L	MW93PR	01/20/1997	ND	20.0000
Chromium	UG/L	MW93PR	04/22/1997	ND	20.0000
Chromium	UG/L	MW93PR	07/16/1997	ND	20.0000
Chromium	UG/L	MW93PR	10/23/1997	ND	20.0000
Chromium	UG/L	MW93PR	01/21/1998	ND	20.0000
Chromium	UG/L	MW93PR	04/21/1998	ND	20.0000
Chromium	UG/L	MW93PR	07/16/1998	ND	20.0000
Chromium	UG/L	MW93PR	10/20/1998	ND	20.0000
Chromium	UG/L	MW93PR	01/19/1999	ND	20.0000
Chromium	UG/L	MW93PR	04/21/1999	ND	20.0000
Chromium	UG/L	MW93PR	07/20/1999	ND	20.0000
Chromium	UG/L	MW93PR	10/19/1999	ND	20.0000
Chromium	UG/L	MW93PR	01/18/2000	ND	20.0000
Chromium	UG/L	MW93PR	04/19/2000	ND	20.0000
Chromium	UG/L	MW93PR	07/18/2000	ND	20.0000

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result
Chromium	UG/L	MW93PR	10/18/2000	ND	20.0000
Chromium	UG/L	MW93PR	01/17/2001	ND	20.0000
Chromium	UG/L	MW93PR	04/23/2001	ND	20.0000
Chromium	UG/L	MW93PR	07/17/2001	ND	20.0000
Chromium	UG/L	MW93PR	10/22/2001	ND	20.0000
Chromium	UG/L	MW93PR	01/16/2002	ND	20.0000
Chromium	UG/L	MW93PR	04/22/2002	ND	20.0000
Chromium	UG/L	MW93PR	07/17/2002	ND	20.0000
Chromium	UG/L	MW93PR	10/24/2002	ND	20.0000
Chromium	UG/L	MW93PR	01/20/2003	ND	20.0000
Chromium	UG/L	MW93PR	04/21/2003	ND	20.0000
Chromium	UG/L	MW93PR	07/16/2003	ND	20.0000
Chromium	UG/L	MW93PR	10/23/2003	ND	20.0000
Chromium	UG/L	MW93PR	04/20/2004	ND	20.0000
Chromium	UG/L	MW93PR	04/29/2005	ND	20.0000
Chromium	UG/L	MW93PR	05/11/2006	ND	20.0000
Chromium	UG/L	MW93PR	05/02/2007	ND	20.0000
Chromium	UG/L	MW93PR	04/30/2008	ND	20.0000
Chromium	UG/L	MW93PR	05/06/2009	ND	20.0000
Chromium	UG/L	MW93PR	05/12/2010	ND	20.0000
Chromium	UG/L	MW93PR	05/12/2011	ND	20.0000
Chromium	UG/L	MW93PR	05/11/2012	ND	20.0000
Chromium	UG/L	MW93PR	05/09/2013	ND	20.0000
Chromium	UG/L	MW93PR	04/30/2014	ND	20.0000
Chromium	UG/L	MW93PR	05/06/2015	ND	20.0000
Chromium	UG/L	MW93PR	05/03/2016	ND	20.0000
Chromium	UG/L	MW93PR	04/27/2017	ND	10.0000
Chromium	UG/L	MW94PR	07/26/1995	ND	25.0000
Chromium	UG/L	MW94PR	10/25/1995	ND	20.0000
Chromium	UG/L	MW94PR	01/17/1996	ND	20.0000
Chromium	UG/L	MW94PR	04/23/1996	ND	20.0000
Chromium	UG/L	MW94PR	07/18/1996	ND	20.0000
Chromium	UG/L	MW94PR	10/22/1996	ND	20.0000
Chromium	UG/L	MW94PR	01/20/1997	ND	20.0000
Chromium	UG/L	MW94PR	04/23/1997	ND	20.0000
Chromium	UG/L	MW94PR	07/15/1997	ND	20.0000
Chromium	UG/L	MW94PR	10/21/1997	ND	20.0000
Chromium	UG/L	MW94PR	01/15/1998	ND	20.0000
Chromium	UG/L	MW94PR	04/22/1998	ND	20.0000
Chromium	UG/L	MW94PR	07/16/1998	ND	20.0000
Chromium	UG/L	MW94PR	10/21/1998	ND	20.0000
Chromium	UG/L	MW94PR	01/18/1999	ND	20.0000
Chromium	UG/L	MW94PR	04/21/1999	ND	20.0000
Chromium	UG/L	MW94PR	07/19/1999	ND	20.0000
Chromium	UG/L	MW94PR	10/19/1999	ND	20.0000
Chromium	UG/L	MW94PR	01/17/2000	ND	20.0000
Chromium	UG/L	MW94PR	04/19/2000	ND	20.0000
Chromium	UG/L	MW94PR	07/17/2000	ND	20.0000
Chromium	UG/L	MW94PR	10/18/2000	ND	20.0000
Chromium	UG/L	MW94PR	01/18/2001	ND	20.0000
Chromium	UG/L	MW94PR	04/19/2001	ND	20.0000
Chromium	UG/L	MW94PR	07/16/2001	ND	20.0000
Chromium	UG/L	MW94PR	10/18/2001	ND	20.0000
Chromium	UG/L	MW94PR	01/17/2002	ND	20.0000
Chromium	UG/L	MW94PR	04/18/2002	ND	20.0000
Chromium	UG/L	MW94PR	07/17/2002	ND	20.0000
Chromium	UG/L	MW94PR	10/24/2002	ND	20.0000

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result
Chromium	UG/L	MW94PR	01/20/2003	ND	20.0000
Chromium	UG/L	MW94PR	04/21/2003	ND	20.0000
Chromium	UG/L	MW94PR	07/16/2003	ND	20.0000
Chromium	UG/L	MW94PR	10/23/2003	ND	20.0000
Chromium	UG/L	MW94PR	04/20/2004	ND	20.0000
Chromium	UG/L	MW94PR	04/29/2005	ND	20.0000
Chromium	UG/L	MW94PR	05/11/2006	ND	20.0000
Chromium	UG/L	MW94PR	05/03/2007	ND	20.0000
Chromium	UG/L	MW94PR	05/01/2008	ND	20.0000
Chromium	UG/L	MW94PR	05/07/2009	ND	20.0000
Chromium	UG/L	MW94PR	05/14/2010	ND	20.0000
Chromium	UG/L	MW94PR	05/13/2011	ND	20.0000
Chromium	UG/L	MW94PR	05/11/2012	ND	20.0000
Chromium	UG/L	MW94PR	05/09/2013	ND	20.0000
Chromium	UG/L	MW94PR	04/30/2014	ND	20.0000
Chromium	UG/L	MW94PR	05/06/2015	ND	20.0000
Chromium	UG/L	MW94PR	05/03/2016	ND	20.0000
Chromium	UG/L	MW94PR	04/28/2017	ND	10.0000
Chromium	UG/L	MW95P	02/10/1993	ND	20.0000
Chromium	UG/L	MW95P	04/14/1993	ND	20.0000
Chromium	UG/L	MW95P	08/10/1993	ND	20.0000
Chromium	UG/L	MW95P	10/13/1993	ND	20.0000
Chromium	UG/L	MW95P	02/14/1994	ND	20.0000
Chromium	UG/L	MW95P	05/09/1994	ND	20.0000
Chromium	UG/L	MW95P	07/20/1994	ND	20.0000
Chromium	UG/L	MW95P	10/20/1994	ND	20.0000
Chromium	UG/L	MW95P	01/17/1995	ND	20.0000
Chromium	UG/L	MW95P	04/24/1995	ND	20.0000
Chromium	UG/L	MW95P	07/25/1995	ND	25.0000
Chromium	UG/L	MW95P	10/23/1995	ND	20.0000
Chromium	UG/L	MW95P	01/23/1996	ND	20.0000
Chromium	UG/L	MW95P	04/15/1996	ND	20.0000
Chromium	UG/L	MW95P	07/18/1996	ND	20.0000
Chromium	UG/L	MW95P	10/22/1996	ND	20.0000
Chromium	UG/L	MW95P	01/20/1997	ND	20.0000
Chromium	UG/L	MW95P	04/22/1997	ND	20.0000
Chromium	UG/L	MW95P	07/16/1997	ND	20.0000
Chromium	UG/L	MW95P	10/16/1997	ND	20.0000
Chromium	UG/L	MW95P	01/15/1998	ND	20.0000
Chromium	UG/L	MW95P	04/21/1998	ND	20.0000
Chromium	UG/L	MW95P	07/16/1998	ND	20.0000
Chromium	UG/L	MW95P	10/19/1998	ND	20.0000
Chromium	UG/L	MW95P	01/19/1999	ND	20.0000
Chromium	UG/L	MW95P	04/21/1999	ND	20.0000
Chromium	UG/L	MW95P	07/20/1999	ND	20.0000
Chromium	UG/L	MW95P	10/19/1999	ND	20.0000
Chromium	UG/L	MW95P	01/18/2000	ND	20.0000
Chromium	UG/L	MW95P	04/19/2000	ND	20.0000
Chromium	UG/L	MW95P	07/18/2000	ND	20.0000
Chromium	UG/L	MW95P	10/18/2000	ND	20.0000
Chromium	UG/L	MW95P	01/17/2001	ND	20.0000
Chromium	UG/L	MW95P	04/23/2001	ND	20.0000
Chromium	UG/L	MW95P	07/17/2001	ND	20.0000
Chromium	UG/L	MW95P	10/22/2001	ND	20.0000
Chromium	UG/L	MW95P	01/16/2002	ND	20.0000
Chromium	UG/L	MW95P	04/22/2002	ND	20.0000
Chromium	UG/L	MW95P	07/17/2002	ND	20.0000

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	
Chromium	UG/L	MW95P	10/24/2002	ND	20.0000	
Chromium	UG/L	MW95P	01/20/2003	ND	20.0000	
Chromium	UG/L	MW95P	04/21/2003	ND	20.0000	
Chromium	UG/L	MW95P	07/16/2003	ND	20.0000	
Chromium	UG/L	MW95P	10/23/2003	ND	20.0000	
Chromium	UG/L	MW95P	04/20/2004	ND	20.0000	
Chromium	UG/L	MW95P	04/29/2005	ND	20.0000	
Chromium	UG/L	MW95P	05/11/2006	ND	20.0000	
Chromium	UG/L	MW95P	05/02/2007	ND	20.0000	
Chromium	UG/L	MW95P	04/30/2008	ND	20.0000	
Chromium	UG/L	MW95P	05/06/2009	ND	20.0000	
Chromium	UG/L	MW95P	05/12/2010	ND	20.0000	
Chromium	UG/L	MW95P	05/11/2011	ND	20.0000	
Chromium	UG/L	MW95P	05/11/2012	ND	20.0000	
Chromium	UG/L	MW95P	05/09/2013	ND	20.0000	
Chromium	UG/L	MW95P	04/23/2014	ND	20.0000	
Chromium	UG/L	MW95P	04/30/2015	ND	20.0000	
Chromium	UG/L	MW95P	04/28/2016	ND	20.0000	
Chromium	UG/L	MW95P	04/20/2017	ND	10.0000	
Chromium	UG/L	MW96T	04/14/1993		33.0000	
Chromium	UG/L	MW96T	08/11/1993	ND	20.0000	
Chromium	UG/L	MW96T	10/13/1993	ND	20.0000	
Chromium	UG/L	MW96T	01/04/1994	ND	20.0000	
Chromium	UG/L	MW96T	04/05/1994	ND	20.0000	
Chromium	UG/L	MW96T	07/19/1994	ND	20.0000	
Chromium	UG/L	MW96T	10/20/1994	ND	20.0000	
Chromium	UG/L	MW96T	01/17/1995	ND	20.0000	
Chromium	UG/L	MW96T	04/24/1995	ND	20.0000	
Chromium	UG/L	MW96T	07/25/1995	ND	25.0000	
Chromium	UG/L	MW96T	10/11/1995	ND	20.0000	
Chromium	UG/L	MW96T	01/17/1996	ND	20.0000	
Chromium	UG/L	MW96T	04/18/1996	ND	20.0000	
Chromium	UG/L	MW96T	07/18/1996	ND	20.0000	
Chromium	UG/L	MW96T	10/22/1996	ND	20.0000	
Chromium	UG/L	MW96T	01/21/1997	ND	20.0000	
Chromium	UG/L	MW96T	04/22/1997	ND	20.0000	
Chromium	UG/L	MW96T	07/15/1997	ND	20.0000	
Chromium	UG/L	MW96T	10/21/1997	ND	20.0000	
Chromium	UG/L	MW96T	01/15/1998	ND	20.0000	
Chromium	UG/L	MW96T	04/22/1998	ND	20.0000	
Chromium	UG/L	MW96T	07/16/1998	ND	20.0000	
Chromium	UG/L	MW96T	10/20/1998	ND	20.0000	
Chromium	UG/L	MW96T	01/20/1999	ND	20.0000	
Chromium	UG/L	MW96T	04/21/1999	ND	20.0000	
Chromium	UG/L	MW96T	07/20/1999	ND	20.0000	
Chromium	UG/L	MW96T	10/19/1999	ND	20.0000	
Chromium	UG/L	MW96T	01/19/2000	ND	20.0000	
Chromium	UG/L	MW96T	04/19/2000	ND	20.0000	
Chromium	UG/L	MW96T	07/19/2000	ND	20.0000	
Chromium	UG/L	MW96T	10/18/2000	ND	20.0000	
Chromium	UG/L	MW96T	01/17/2001	ND	20.0000	
Chromium	UG/L	MW96T	04/19/2001	ND	20.0000	
Chromium	UG/L	MW96T	07/18/2001	ND	20.0000	
Chromium	UG/L	MW96T	10/18/2001	ND	20.0000	
Chromium	UG/L	MW96T	01/16/2002	ND	20.0000	
Chromium	UG/L	MW96T	04/18/2002	ND	20.0000	
Chromium	UG/L	MW96T	07/18/2002	ND	20.0000	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result
Chromium	UG/L	MW96T	10/24/2002	ND	20.0000
Chromium	UG/L	MW96T	01/21/2003	ND	20.0000
Chromium	UG/L	MW96T	04/21/2003	ND	20.0000
Chromium	UG/L	MW96T	07/16/2003	ND	20.0000
Chromium	UG/L	MW96T	10/23/2003	ND	20.0000
Chromium	UG/L	MW96T	01/20/2004	ND	20.0000
Chromium	UG/L	MW96T	01/27/2005	ND	20.0000
Chromium	UG/L	MW96T	01/17/2006	ND	20.0000
Chromium	UG/L	MW96T	02/08/2007	ND	20.0000
Chromium	UG/L	MW96T	02/22/2008	ND	20.0000
Chromium	UG/L	MW96T	02/06/2009	ND	20.0000
Chromium	UG/L	MW96T	02/09/2010	ND	5.0000
Chromium	UG/L	MW96T	02/17/2011	ND	20.0000
Chromium	UG/L	MW96T	03/09/2012	ND	20.0000
Chromium	UG/L	MW96T	02/19/2013	ND	20.0000
Chromium	UG/L	MW96T	02/07/2014	ND	20.0000
Chromium	UG/L	MW96T	02/04/2015	ND	20.0000
Chromium	UG/L	MW96T	02/10/2016	ND	20.0000
Chromium	UG/L	MW96T	02/01/2017	ND	20.0000
Chromium	UG/L	MW97T	02/10/1993	ND	20.0000
Chromium	UG/L	MW97T	04/14/1993	ND	20.0000
Chromium	UG/L	MW97T	08/10/1993	ND	20.0000
Chromium	UG/L	MW97T	10/13/1993	ND	20.0000
Chromium	UG/L	MW97T	02/16/1994	ND	20.0000
Chromium	UG/L	MW97T	05/09/1994	ND	20.0000
Chromium	UG/L	MW97T	07/20/1994	ND	20.0000
Chromium	UG/L	MW97T	10/24/1994	ND	20.0000
Chromium	UG/L	MW97T	01/17/1995	ND	20.0000
Chromium	UG/L	MW97T	04/07/1995	ND	20.0000
Chromium	UG/L	MW97T	07/25/1995	ND	25.0000
Chromium	UG/L	MW98TR	07/25/1995	ND	25.0000
Chromium	UG/L	MW98TR	10/25/1995	ND	20.0000
Chromium	UG/L	MW98TR	01/17/1996	ND	20.0000
Chromium	UG/L	MW98TR	04/23/1996	ND	20.0000
Chromium	UG/L	MW98TR	07/18/1996	ND	20.0000
Chromium	UG/L	MW98TR	10/22/1996	ND	20.0000
Chromium	UG/L	MW98TR	01/21/1997	ND	20.0000
Chromium	UG/L	MW98TR	04/22/1997	ND	20.0000
Chromium	UG/L	MW98TR	07/15/1997	ND	20.0000
Chromium	UG/L	MW98TR	10/21/1997	ND	20.0000
Chromium	UG/L	MW98TR	01/20/1998	ND	20.0000
Chromium	UG/L	MW98TR	07/16/1998	ND	20.0000
Chromium	UG/L	MW98TR	10/20/1998	ND	20.0000
Chromium	UG/L	MW98TR	01/20/1999	ND	20.0000
Chromium	UG/L	MW98TR	04/21/1999	ND	20.0000
Chromium	UG/L	MW98TR	07/20/1999	ND	20.0000
Chromium	UG/L	MW98TR	10/19/1999	ND	20.0000
Chromium	UG/L	MW98TR	01/19/2000	ND	20.0000
Chromium	UG/L	MW98TR	04/19/2000	ND	20.0000
Chromium	UG/L	MW98TR	07/19/2000	ND	20.0000
Chromium	UG/L	MW98TR	10/18/2000	ND	20.0000
Chromium	UG/L	MW98TR	01/17/2001	ND	20.0000
Chromium	UG/L	MW98TR	04/19/2001	ND	20.0000
Chromium	UG/L	MW98TR	07/18/2001	ND	20.0000
Chromium	UG/L	MW98TR	10/18/2001	ND	20.0000
Chromium	UG/L	MW98TR	01/16/2002	ND	20.0000
Chromium	UG/L	MW98TR	04/18/2002	ND	20.0000

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result
Chromium	UG/L	MW98TR	07/18/2002	ND	20.0000
Chromium	UG/L	MW98TR	10/24/2002	ND	20.0000
Chromium	UG/L	MW98TR	01/21/2003	ND	20.0000
Chromium	UG/L	MW98TR	04/21/2003	ND	20.0000
Chromium	UG/L	MW98TR	07/16/2003	ND	20.0000
Chromium	UG/L	MW98TR	10/23/2003	ND	20.0000
Chromium	UG/L	MW98TR	01/20/2004	ND	20.0000
Chromium	UG/L	MW98TR	01/27/2005	ND	20.0000
Chromium	UG/L	MW98TR	01/17/2006	ND	20.0000
Chromium	UG/L	MW98TR	02/08/2007	ND	20.0000
Chromium	UG/L	MW98TR	02/22/2008	ND	20.0000
Chromium	UG/L	MW98TR	02/06/2009	ND	20.0000
Chromium	UG/L	MW98TR	02/09/2010	ND	5.0000
Chromium	UG/L	MW98TR	02/17/2011	ND	20.0000
Chromium	UG/L	MW98TR	03/09/2012	ND	20.0000
Chromium	UG/L	MW98TR	02/15/2013	ND	20.0000
Chromium	UG/L	MW98TR	02/06/2014	ND	20.0000
Chromium	UG/L	MW98TR	02/04/2015	ND	20.0000
Chromium	UG/L	MW98TR	02/10/2016	ND	20.0000
Chromium	UG/L	MW98TR	02/01/2017	ND	20.0000
Chromium	UG/L	PSDL17A	01/05/1993	ND	20.0000
Chromium	UG/L	PSDL17A	03/09/1993	ND	20.0000
Chromium	UG/L	PSDL17A	05/06/1993	ND	20.0000
Chromium	UG/L	PSDL17A	06/09/1993	ND	20.0000
Chromium	UG/L	PSDL17A	07/08/1993	ND	20.0000
Chromium	UG/L	PSDL17A	09/02/1993	ND	20.0000
Chromium	UG/L	PSDL17A	11/03/1993	ND	20.0000
Chromium	UG/L	PSDL17A	12/08/1993	ND	20.0000
Chromium	UG/L	PSDL17A	02/15/1994	ND	20.0000
Chromium	UG/L	PSDL17A	05/09/1994	ND	20.0000
Chromium	UG/L	PSDL17A	07/06/1994	ND	20.0000
Chromium	UG/L	PSDL17A	10/20/1994	ND	20.0000
Chromium	UG/L	PSDL17A	01/09/1995	ND	20.0000
Chromium	UG/L	PSDL17A	04/07/1995	ND	20.0000
Chromium	UG/L	PSDL17A	07/17/1995	ND	25.0000
Chromium	UG/L	PSDL17A	10/11/1995	ND	20.0000
Chromium	UG/L	PSDL17A	01/16/1996	ND	20.0000
Chromium	UG/L	PSDL17A	04/10/1996	ND	20.0000
Chromium	UG/L	PSDL17A	07/18/1996	ND	20.0000
Chromium	UG/L	PSDL17A	10/22/1996	ND	20.0000
Chromium	UG/L	PSDL17A	01/20/1997	ND	20.0000
Chromium	UG/L	PSDL17A	04/22/1997	ND	20.0000
Chromium	UG/L	PSDL17A	07/16/1997	ND	20.0000
Chromium	UG/L	PSDL17A	10/16/1997	ND	20.0000
Chromium	UG/L	PSDL17A	01/20/1998	ND	20.0000
Chromium	UG/L	PSDL17A	04/22/1998	ND	20.0000
Chromium	UG/L	PSDL17A	07/16/1998	ND	20.0000
Chromium	UG/L	PSDL17A	10/19/1998	ND	20.0000
Chromium	UG/L	PSDL17A	01/19/1999	ND	20.0000
Chromium	UG/L	PSDL17A	04/20/1999	ND	20.0000
Chromium	UG/L	PSDL17A	07/20/1999	ND	20.0000
Chromium	UG/L	PSDL17A	10/18/1999	ND	20.0000
Chromium	UG/L	PSDL17A	01/18/2000	ND	20.0000
Chromium	UG/L	PSDL17A	04/18/2000	ND	20.0000
Chromium	UG/L	PSDL17A	07/18/2000	ND	20.0000
Chromium	UG/L	PSDL17A	10/17/2000	ND	20.0000
Chromium	UG/L	PSDL17A	01/16/2001	ND	20.0000

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result
Chromium	UG/L	PSDL17A	04/18/2001	ND	20.0000
Chromium	UG/L	PSDL17A	07/17/2001	ND	20.0000
Chromium	UG/L	PSDL17A	10/17/2001	ND	20.0000
Chromium	UG/L	PSDL17A	01/16/2002	ND	20.0000
Chromium	UG/L	PSDL17A	04/16/2002	ND	20.0000
Chromium	UG/L	PSDL17A	07/17/2002	ND	20.0000
Chromium	UG/L	PSDL17A	10/22/2002	ND	20.0000
Chromium	UG/L	PSDL17A	01/20/2003	ND	20.0000
Chromium	UG/L	PSDL17A	04/21/2003	ND	20.0000
Chromium	UG/L	PSDL17A	07/15/2003	ND	20.0000
Chromium	UG/L	PSDL17A	10/23/2003	ND	20.0000
Chromium	UG/L	PSDL17A	01/19/2004	ND	20.0000
Chromium	UG/L	PSDL17A	01/26/2005	ND	20.0000
Chromium	UG/L	PSDL17A	01/13/2006	ND	20.0000
Chromium	UG/L	PSDL17A	02/07/2007	ND	20.0000
Chromium	UG/L	PSDL17A	02/21/2008	ND	20.0000
Chromium	UG/L	PSDL17A	02/05/2009	ND	20.0000
Chromium	UG/L	PSDL17A	02/09/2010	ND	5.0000
Chromium	UG/L	PSDL17A	02/15/2011	ND	20.0000
Chromium	UG/L	PSDL17A	03/08/2012	ND	20.0000
Chromium	UG/L	PSDL17A	02/14/2013	ND	20.0000
Chromium	UG/L	PSDL17A	02/06/2014	ND	20.0000
Chromium	UG/L	PSDL17A	02/04/2015	ND	20.0000
Chromium	UG/L	PSDL17A	02/05/2016	ND	20.0000
Chromium	UG/L	PSDL17A	01/31/2017	ND	20.0000
Chromium	UG/L	UBC25	02/09/1993	ND	20.0000
Chromium	UG/L	UBC25	04/14/1993	ND	20.0000
Chromium	UG/L	UBC25	08/05/1993	ND	20.0000
Chromium	UG/L	UBC25	10/12/1993	ND	20.0000
Chromium	UG/L	UBC25	02/14/1994	ND	20.0000
Chromium	UG/L	UBC25	05/09/1994	ND	20.0000
Chromium	UG/L	UBC25	10/20/1994	ND	20.0000
Chromium	UG/L	UBC25	04/20/1995	ND	20.0000
Chromium	UG/L	UBC25	10/25/1995	ND	20.0000
Chromium	UG/L	UBC25	04/23/1996	ND	20.0000
Chromium	UG/L	UBC25	10/22/1996	ND	20.0000
Chromium	UG/L	UBC25	04/22/1997	ND	20.0000
Chromium	UG/L	UBC25	10/21/1997	ND	20.0000
Chromium	UG/L	UBC25	04/21/1998	ND	20.0000
Chromium	UG/L	UBC25	10/20/1998	ND	20.0000
Chromium	UG/L	UBC25	04/21/1999	ND	20.0000
Chromium	UG/L	UBC25	10/19/1999	ND	20.0000
Chromium	UG/L	UBC25	04/19/2000	ND	20.0000
Chromium	UG/L	UBC25	07/19/2000	ND	20.0000
Chromium	UG/L	UBC25	10/18/2000	ND	20.0000
Chromium	UG/L	UBC25	04/23/2001	ND	20.0000
Chromium	UG/L	UBC25	10/22/2001	ND	20.0000
Chromium	UG/L	UBC25	04/22/2002	ND	20.0000
Chromium	UG/L	UBC25	10/24/2002	ND	20.0000
Chromium	UG/L	UBC25	04/21/2003	ND	20.0000
Chromium	UG/L	UBC25	10/23/2003	ND	20.0000
Chromium	UG/L	UBC25	07/20/2004	ND	20.0000
Chromium	UG/L	UBC25	07/28/2005	ND	20.0000
Chromium	UG/L	UBC25	08/09/2006	ND	20.0000
Chromium	UG/L	UBC25	08/10/2007	ND	20.0000
Chromium	UG/L	UBC25	08/08/2008	ND	20.0000
Chromium	UG/L	UBC25	07/31/2009	ND	20.0000

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result
Chromium	UG/L	UBC25	08/06/2010	ND	20.0000
Chromium	UG/L	UBC25	08/08/2011	ND	20.0000
Chromium	UG/L	UBC25	08/13/2012	ND	20.0000
Chromium	UG/L	UBC25	08/08/2013	ND	20.0000
Chromium	UG/L	UBC25	07/30/2014	ND	20.0000
Chromium	UG/L	UBC25	08/17/2015	ND	20.0000
Chromium	UG/L	UBC25	08/19/2016	ND	20.0000
Chromium	UG/L	UBC25	07/27/2017	ND	10.0000
Chromium	UG/L	UBC27	02/09/1993	ND	20.0000
Chromium	UG/L	UBC27	04/14/1993	ND	20.0000
Chromium	UG/L	UBC27	08/11/1993	ND	20.0000
Chromium	UG/L	UBC27	10/13/1993	ND	20.0000
Chromium	UG/L	UBC27	02/14/1994	ND	20.0000
Chromium	UG/L	UBC27	05/11/1994	ND	20.0000
Chromium	UG/L	UBC27	10/20/1994	ND	20.0000
Chromium	UG/L	UBC27	04/20/1995	ND	20.0000
Chromium	UG/L	UBC27	10/25/1995	ND	20.0000
Chromium	UG/L	UBC27	04/23/1996	ND	20.0000
Chromium	UG/L	UBC27	10/22/1996	ND	20.0000
Chromium	UG/L	UBC27	04/22/1997	ND	20.0000
Chromium	UG/L	UBC27	10/23/1997	ND	20.0000
Chromium	UG/L	UBC27	04/21/1998	ND	20.0000
Chromium	UG/L	UBC27	10/20/1998	ND	20.0000
Chromium	UG/L	UBC27	04/21/1999	ND	20.0000
Chromium	UG/L	UBC27	10/19/1999	ND	20.0000
Chromium	UG/L	UBC27	04/19/2000	ND	20.0000
Chromium	UG/L	UBC27	07/18/2000	ND	20.0000
Chromium	UG/L	UBC27	10/18/2000	ND	20.0000
Chromium	UG/L	UBC27	04/23/2001	ND	20.0000
Chromium	UG/L	UBC27	10/22/2001	ND	20.0000
Chromium	UG/L	UBC27	04/22/2002	ND	20.0000
Chromium	UG/L	UBC27	10/24/2002	ND	20.0000
Chromium	UG/L	UBC27	04/21/2003	ND	20.0000
Chromium	UG/L	UBC27	10/23/2003	ND	20.0000
Chromium	UG/L	UBC27	07/20/2004	ND	20.0000
Chromium	UG/L	UBC27	07/28/2005	ND	20.0000
Chromium	UG/L	UBC27	08/09/2006	ND	20.0000
Chromium	UG/L	UBC27	08/10/2007	ND	20.0000
Chromium	UG/L	UBC27	08/08/2008	ND	20.0000
Chromium	UG/L	UBC27	07/31/2009	ND	20.0000
Chromium	UG/L	UBC27	08/06/2010	ND	20.0000
Chromium	UG/L	UBC27	08/08/2011	ND	20.0000
Chromium	UG/L	UBC27	08/13/2012	ND	20.0000
Chromium	UG/L	UBC27	08/08/2013	ND	20.0000
Chromium	UG/L	UBC27	07/30/2014	ND	20.0000
Chromium	UG/L	UBC27	08/17/2015	ND	20.0000
Chromium	UG/L	UBC27	08/19/2016	ND	20.0000
Chromium	UG/L	UBC27	07/27/2017	ND	10.0000
Chromium	UG/L	UBC28AR	10/25/1995	ND	20.0000
Chromium	UG/L	UBC28AR	04/18/1996	ND	20.0000
Chromium	UG/L	UBC28AR	10/17/1996	ND	20.0000
Chromium	UG/L	UBC28AR	04/22/1997	ND	20.0000
Chromium	UG/L	UBC28AR	10/16/1997	ND	20.0000
Chromium	UG/L	UBC28AR	04/21/1998	ND	20.0000
Chromium	UG/L	UBC28AR	10/19/1998	ND	20.0000
Chromium	UG/L	UBC28AR	04/21/1999	ND	20.0000
Chromium	UG/L	UBC28AR	10/19/1999	ND	20.0000

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result
Chromium	UG/L	UBC28AR	04/19/2000	ND	20.0000
Chromium	UG/L	UBC28AR	07/19/2000	ND	20.0000
Chromium	UG/L	UBC28AR	10/18/2000	ND	20.0000
Chromium	UG/L	UBC28AR	04/23/2001	ND	20.0000
Chromium	UG/L	UBC28AR	10/22/2001	ND	20.0000
Chromium	UG/L	UBC28AR	04/22/2002	ND	20.0000
Chromium	UG/L	UBC28AR	10/24/2002	ND	20.0000
Chromium	UG/L	UBC28AR	04/21/2003	ND	20.0000
Chromium	UG/L	UBC28AR	10/23/2003	ND	20.0000
Chromium	UG/L	UBC28AR	07/20/2004	ND	20.0000
Chromium	UG/L	UBC28AR	07/28/2005	ND	20.0000
Chromium	UG/L	UBC28AR	08/09/2006	ND	20.0000
Chromium	UG/L	UBC28AR	08/10/2007	ND	20.0000
Chromium	UG/L	UBC28AR	08/08/2008	ND	20.0000
Chromium	UG/L	UBC28AR	07/31/2009	ND	20.0000
Chromium	UG/L	UBC28AR	08/06/2010	ND	20.0000
Chromium	UG/L	UBC28AR	08/05/2011	ND	20.0000
Chromium	UG/L	UBC28AR	08/10/2012	ND	20.0000
Chromium	UG/L	UBC28AR	08/08/2013	ND	20.0000
Chromium	UG/L	UBC28AR	07/30/2014	ND	20.0000
Chromium	UG/L	UBC28AR	08/14/2015	ND	20.0000
Chromium	UG/L	UBC28AR	08/10/2016	ND	20.0000
Chromium	UG/L	UBC28AR	07/27/2017	ND	10.0000
Conductivity	UMHO	MW1	01/30/1993		152.0000
Conductivity	UMHO	MW1	03/30/1993		149.5000
Conductivity	UMHO	MW1	06/30/1993		149.0000
Conductivity	UMHO	MW1	07/30/1993		153.0000
Conductivity	UMHO	MW1	09/30/1993		135.0000
Conductivity	UMHO	MW1	11/30/1993		150.0000
Conductivity	UMHO	MW1	12/30/1993		152.0000
Conductivity	UMHO	MW1	02/25/1994		153.0000
Conductivity	UMHO	MW1	05/27/1994		165.0000
Conductivity	UMHO	MW1	07/19/1994		170.0000
Conductivity	UMHO	MW1	10/19/1994		151.0000
Conductivity	UMHO	MW1	01/16/1995		145.0000
Conductivity	UMHO	MW1	04/19/1995		122.0000
Conductivity	UMHO	MW1	10/24/1995		139.0000
Conductivity	UMHO	MW1	01/22/1996		155.0000
Conductivity	UMHO	MW1	04/22/1996		145.0000
Conductivity	UMHO	MW1	07/22/1996		144.0000
Conductivity	UMHO	MW1	10/21/1996		150.0000
Conductivity	UMHO	MW1	01/20/1997		174.0000
Conductivity	UMHO	MW1	04/21/1997		165.0000
Conductivity	UMHO	MW1	07/15/1997		161.0000
Conductivity	UMHO	MW1	10/16/1997		155.0000
Conductivity	UMHO	MW1	01/19/1998		154.0000
Conductivity	UMHO	MW1	04/20/1998		150.0000
Conductivity	UMHO	MW1	07/15/1998		171.0000
Conductivity	UMHO	MW1	10/19/1998		156.0000
Conductivity	UMHO	MW1	01/18/1999		190.0000
Conductivity	UMHO	MW1	04/20/1999		161.0000
Conductivity	UMHO	MW1	07/19/1999		205.0000
Conductivity	UMHO	MW1	10/18/1999		165.0000
Conductivity	UMHO	MW1	01/17/2000		127.0000
Conductivity	UMHO	MW1	04/18/2000		160.0000
Conductivity	UMHO	MW1	07/17/2000		162.0000
Conductivity	UMHO	MW1	10/17/2000		182.0000

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	
Conductivity	UMHO	MW1	01/16/2001		202.0000	
Conductivity	UMHO	MW1	04/18/2001		167.0000	
Conductivity	UMHO	MW1	07/16/2001		158.0000	
Conductivity	UMHO	MW1	10/17/2001		139.0000	
Conductivity	UMHO	MW1	01/15/2002		161.0000	
Conductivity	UMHO	MW1	04/16/2002		130.0000	
Conductivity	UMHO	MW1	07/16/2002		145.0000	
Conductivity	UMHO	MW1	10/22/2002		159.0000	
Conductivity	UMHO	MW1	01/20/2003		160.0000	
Conductivity	UMHO	MW1	04/16/2003		158.0000	
Conductivity	UMHO	MW1	07/14/2003		148.0000	
Conductivity	UMHO	MW1	10/21/2003		152.0000	
Conductivity	UMHO	MW1	01/19/2004		159.0000	
Conductivity	UMHO	MW1	01/26/2005		153.2000	
Conductivity	UMHO	MW1	01/12/2006		146.0000	
Conductivity	UMHO	MW1	02/07/2007		139.0000	
Conductivity	UMHO	MW126T	11/08/1995		165.0000	
Conductivity	UMHO	MW126T	02/29/1996		178.0000	
Conductivity	UMHO	MW126T	04/23/1996		247.0000	
Conductivity	UMHO	MW126T	07/22/1996		198.0000	
Conductivity	UMHO	MW126T	10/21/1996		199.0000	
Conductivity	UMHO	MW126T	01/20/1997		232.0000	
Conductivity	UMHO	MW126T	04/23/1997		214.0000	
Conductivity	UMHO	MW126T	07/15/1997		216.0000	
Conductivity	UMHO	MW126T	10/16/1997		200.0000	
Conductivity	UMHO	MW126T	01/19/1998		208.0000	
Conductivity	UMHO	MW126T	04/16/1998		233.0000	
Conductivity	UMHO	MW126T	07/16/1998		241.0000	
Conductivity	UMHO	MW126T	10/15/1998		201.0000	
Conductivity	UMHO	MW126T	01/18/1999		250.0000	
Conductivity	UMHO	MW126T	04/21/1999		214.0000	
Conductivity	UMHO	MW126T	07/19/1999		270.0000	
Conductivity	UMHO	MW126T	10/20/1999		250.0000	
Conductivity	UMHO	MW126T	01/17/2000		173.0000	
Conductivity	UMHO	MW126T	04/19/2000		209.0000	
Conductivity	UMHO	MW126T	07/17/2000		210.0000	
Conductivity	UMHO	MW126T	10/18/2000		238.0000	
Conductivity	UMHO	MW126T	01/18/2001		214.0000	
Conductivity	UMHO	MW126T	04/19/2001		188.0000	
Conductivity	UMHO	MW126T	07/16/2001		202.0000	
Conductivity	UMHO	MW126T	10/18/2001		205.0000	
Conductivity	UMHO	MW126T	01/17/2002		199.0000	
Conductivity	UMHO	MW126T	04/18/2002		204.0000	
Conductivity	UMHO	MW126T	07/17/2002		199.0000	
Conductivity	UMHO	MW126T	10/24/2002		208.0000	
Conductivity	UMHO	MW126T	01/20/2003		210.0000	
Conductivity	UMHO	MW126T	04/21/2003		201.0000	
Conductivity	UMHO	MW126T	07/16/2003		204.0000	
Conductivity	UMHO	MW126T	10/23/2003		199.0000	
Conductivity	UMHO	MW126T	01/19/2004		202.0000	
Conductivity	UMHO	MW126T	01/26/2005		221.0000	
Conductivity	UMHO	MW126T	01/16/2006		214.0000	
Conductivity	UMHO	MW126T	02/09/2007		190.0000	
Conductivity	UMHO	MW126T	02/22/2008		177.0000	
Conductivity	UMHO	MW126T	02/06/2009		154.0000	
Conductivity	UMHO	MW126T	02/10/2010		150.0000	
Conductivity	UMHO	MW126T	02/17/2011		196.0000	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result
Conductivity	UMHO	MW126T	03/09/2012		171.0000
Conductivity	UMHO	MW126T	02/15/2013		223.0000
Conductivity	UMHO	MW126T	02/06/2014		186.0000
Conductivity	UMHO	MW126T	02/05/2015		195.0000
Conductivity	UMHO	MW126T	02/10/2016		215.0000
Conductivity	UMHO	MW126T	02/02/2017		140.0000
Conductivity	UMHO	MW92SR	10/25/1995		215.0000
Conductivity	UMHO	MW92SR	01/17/1996		209.0000
Conductivity	UMHO	MW92SR	04/23/1996		239.0000
Conductivity	UMHO	MW92SR	07/18/1996		223.0000
Conductivity	UMHO	MW92SR	10/22/1996		231.0000
Conductivity	UMHO	MW92SR	01/20/1997		257.0000
Conductivity	UMHO	MW92SR	04/22/1997		230.0000
Conductivity	UMHO	MW92SR	07/16/1997		251.0000
Conductivity	UMHO	MW92SR	10/21/1997		216.0000
Conductivity	UMHO	MW92SR	01/21/1998		228.0000
Conductivity	UMHO	MW92SR	04/21/1998		233.0000
Conductivity	UMHO	MW92SR	07/16/1998		246.0000
Conductivity	UMHO	MW92SR	10/20/1998		219.0000
Conductivity	UMHO	MW92SR	01/19/1999		246.0000
Conductivity	UMHO	MW92SR	04/21/1999		234.0000
Conductivity	UMHO	MW92SR	07/20/1999		304.0000
Conductivity	UMHO	MW92SR	10/19/1999		217.0000
Conductivity	UMHO	MW92SR	01/18/2000		217.0000
Conductivity	UMHO	MW92SR	04/19/2000		228.0000
Conductivity	UMHO	MW92SR	07/18/2000		242.0000
Conductivity	UMHO	MW92SR	10/18/2000		274.0000
Conductivity	UMHO	MW92SR	01/17/2001		299.0000
Conductivity	UMHO	MW92SR	04/23/2001		242.0000
Conductivity	UMHO	MW92SR	07/17/2001		225.0000
Conductivity	UMHO	MW92SR	10/22/2001		239.0000
Conductivity	UMHO	MW92SR	01/16/2002		234.0000
Conductivity	UMHO	MW92SR	04/22/2002		239.0000
Conductivity	UMHO	MW92SR	07/17/2002		233.0000
Conductivity	UMHO	MW92SR	10/24/2002		227.0000
Conductivity	UMHO	MW92SR	01/20/2003		236.0000
Conductivity	UMHO	MW92SR	04/21/2003		219.0000
Conductivity	UMHO	MW92SR	07/16/2003		210.0000
Conductivity	UMHO	MW92SR	10/23/2003		224.0000
Conductivity	UMHO	MW92SR	01/20/2004		218.0000
Conductivity	UMHO	MW92SR	01/27/2005		231.0000
Conductivity	UMHO	MW92SR	01/13/2006		213.0000
Conductivity	UMHO	MW92SR	02/08/2007		192.0000
Conductivity	UMHO	MW92SR	02/21/2008		181.0000
Conductivity	UMHO	MW92SR	02/04/2009		201.0000
Conductivity	UMHO	MW92SR	02/08/2010		210.0000
Conductivity	UMHO	MW92SR	02/15/2011		213.0000
Conductivity	UMHO	MW92SR	03/08/2012		215.0000
Conductivity	UMHO	MW92SR	02/14/2013		244.0000
Conductivity	UMHO	MW92SR	02/06/2014		244.0000
Conductivity	UMHO	MW92SR	02/04/2015		215.0000
Conductivity	UMHO	MW92SR	01/29/2016		261.0000
Conductivity	UMHO	MW92SR	01/27/2017		140.0000
Conductivity	UMHO	MW93PR	07/25/1995		192.0000
Conductivity	UMHO	MW93PR	10/25/1995		225.0000
Conductivity	UMHO	MW93PR	01/17/1996		225.0000
Conductivity	UMHO	MW93PR	04/23/1996		256.0000

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	
Conductivity	UMHO	MW93PR	07/18/1996		218.0000	
Conductivity	UMHO	MW93PR	10/22/1996		239.0000	
Conductivity	UMHO	MW93PR	01/20/1997		261.0000	
Conductivity	UMHO	MW93PR	04/22/1997		234.0000	
Conductivity	UMHO	MW93PR	07/16/1997		255.0000	
Conductivity	UMHO	MW93PR	10/23/1997		224.0000	
Conductivity	UMHO	MW93PR	01/21/1998		240.0000	
Conductivity	UMHO	MW93PR	04/21/1998		241.0000	
Conductivity	UMHO	MW93PR	07/16/1998		245.0000	
Conductivity	UMHO	MW93PR	10/20/1998		222.0000	
Conductivity	UMHO	MW93PR	01/19/1999		246.0000	
Conductivity	UMHO	MW93PR	04/21/1999		242.0000	
Conductivity	UMHO	MW93PR	07/20/1999		320.0000	
Conductivity	UMHO	MW93PR	10/19/1999		228.0000	
Conductivity	UMHO	MW93PR	01/18/2000		221.0000	
Conductivity	UMHO	MW93PR	04/19/2000		235.0000	
Conductivity	UMHO	MW93PR	07/18/2000		217.0000	
Conductivity	UMHO	MW93PR	10/18/2000		280.0000	
Conductivity	UMHO	MW93PR	01/17/2001		285.0000	
Conductivity	UMHO	MW93PR	04/23/2001		250.0000	
Conductivity	UMHO	MW93PR	07/17/2001		235.0000	
Conductivity	UMHO	MW93PR	10/22/2001		235.0000	
Conductivity	UMHO	MW93PR	01/16/2002		243.0000	
Conductivity	UMHO	MW93PR	04/22/2002		240.0000	
Conductivity	UMHO	MW93PR	07/17/2002		227.0000	
Conductivity	UMHO	MW93PR	10/24/2002		219.0000	
Conductivity	UMHO	MW93PR	01/20/2003		231.0000	
Conductivity	UMHO	MW93PR	04/21/2003		224.0000	
Conductivity	UMHO	MW93PR	07/16/2003		219.0000	
Conductivity	UMHO	MW93PR	10/23/2003		221.0000	
Conductivity	UMHO	MW93PR	04/20/2004		237.0000	
Conductivity	UMHO	MW93PR	04/29/2005		210.0000	
Conductivity	UMHO	MW93PR	05/11/2006		193.0000	
Conductivity	UMHO	MW93PR	05/02/2007		194.0000	
Conductivity	UMHO	MW93PR	04/30/2008		190.0000	
Conductivity	UMHO	MW93PR	05/06/2009		198.0000	
Conductivity	UMHO	MW93PR	05/12/2010		200.0000	
Conductivity	UMHO	MW93PR	05/12/2011		191.0000	
Conductivity	UMHO	MW93PR	05/11/2012		205.0000	
Conductivity	UMHO	MW93PR	05/09/2013		217.0000	
Conductivity	UMHO	MW93PR	04/30/2014		175.0000	
Conductivity	UMHO	MW93PR	05/06/2015		183.0000	
Conductivity	UMHO	MW93PR	05/03/2016		171.0000	
Conductivity	UMHO	MW93PR	04/27/2017		130.0000	
Conductivity	UMHO	MW94PR	07/26/1995		141.0000	
Conductivity	UMHO	MW94PR	10/25/1995		222.0000	
Conductivity	UMHO	MW94PR	01/17/1996		205.0000	
Conductivity	UMHO	MW94PR	04/23/1996		251.0000	
Conductivity	UMHO	MW94PR	07/18/1996		225.0000	
Conductivity	UMHO	MW94PR	10/22/1996		251.0000	
Conductivity	UMHO	MW94PR	01/20/1997		218.0000	
Conductivity	UMHO	MW94PR	04/23/1997		254.0000	
Conductivity	UMHO	MW94PR	07/15/1997		253.0000	
Conductivity	UMHO	MW94PR	10/21/1997		232.0000	
Conductivity	UMHO	MW94PR	01/15/1998		255.0000	
Conductivity	UMHO	MW94PR	04/22/1998		245.0000	
Conductivity	UMHO	MW94PR	07/16/1998		265.0000	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	
Conductivity	UMHO	MW94PR	10/21/1998		240.0000	
Conductivity	UMHO	MW94PR	01/18/1999		274.0000	
Conductivity	UMHO	MW94PR	04/21/1999		243.0000	
Conductivity	UMHO	MW94PR	07/19/1999		298.0000	
Conductivity	UMHO	MW94PR	10/19/1999		229.0000	
Conductivity	UMHO	MW94PR	01/17/2000		193.0000	
Conductivity	UMHO	MW94PR	04/19/2000		242.0000	
Conductivity	UMHO	MW94PR	07/17/2000		250.0000	
Conductivity	UMHO	MW94PR	10/18/2000		273.0000	
Conductivity	UMHO	MW94PR	01/18/2001		235.0000	
Conductivity	UMHO	MW94PR	04/19/2001		215.0000	
Conductivity	UMHO	MW94PR	07/16/2001		218.0000	
Conductivity	UMHO	MW94PR	10/18/2001		220.0000	
Conductivity	UMHO	MW94PR	01/17/2002		220.0000	
Conductivity	UMHO	MW94PR	04/18/2002		238.0000	
Conductivity	UMHO	MW94PR	07/17/2002		222.0000	
Conductivity	UMHO	MW94PR	10/24/2002		226.0000	
Conductivity	UMHO	MW94PR	01/20/2003		231.0000	
Conductivity	UMHO	MW94PR	04/21/2003		224.0000	
Conductivity	UMHO	MW94PR	07/16/2003		234.0000	
Conductivity	UMHO	MW94PR	10/23/2003		228.0000	
Conductivity	UMHO	MW94PR	04/20/2004		232.0000	
Conductivity	UMHO	MW94PR	04/29/2005		241.0000	
Conductivity	UMHO	MW94PR	05/11/2006		238.0000	
Conductivity	UMHO	MW94PR	05/03/2007		218.0000	
Conductivity	UMHO	MW94PR	05/01/2008		190.0000	
Conductivity	UMHO	MW94PR	05/07/2009		221.0000	
Conductivity	UMHO	MW94PR	05/14/2010		218.0000	
Conductivity	UMHO	MW94PR	05/13/2011		218.0000	
Conductivity	UMHO	MW94PR	05/11/2012		249.0000	
Conductivity	UMHO	MW94PR	05/09/2013		222.0000	
Conductivity	UMHO	MW94PR	04/30/2014		206.0000	
Conductivity	UMHO	MW94PR	05/06/2015		224.0000	
Conductivity	UMHO	MW94PR	05/03/2016		194.0000	
Conductivity	UMHO	MW94PR	04/28/2017		150.0000	
Conductivity	UMHO	MW95P	02/28/1993		190.0000	
Conductivity	UMHO	MW95P	08/30/1993		181.0000	
Conductivity	UMHO	MW95P	10/30/1993		211.0000	
Conductivity	UMHO	MW95P	02/25/1994		162.0000	
Conductivity	UMHO	MW95P	05/27/1994		229.0000	
Conductivity	UMHO	MW95P	07/20/1994		208.0000	
Conductivity	UMHO	MW95P	10/20/1994		216.0000	
Conductivity	UMHO	MW95P	01/17/1995		174.0000	
Conductivity	UMHO	MW95P	04/24/1995		188.0000	
Conductivity	UMHO	MW95P	07/25/1995		188.0000	
Conductivity	UMHO	MW95P	10/23/1995		185.0000	
Conductivity	UMHO	MW95P	01/23/1996		212.0000	
Conductivity	UMHO	MW95P	04/15/1996		223.0000	
Conductivity	UMHO	MW95P	07/18/1996		200.0000	
Conductivity	UMHO	MW95P	10/22/1996		223.0000	
Conductivity	UMHO	MW95P	01/20/1997		242.0000	
Conductivity	UMHO	MW95P	04/22/1997		215.0000	
Conductivity	UMHO	MW95P	07/16/1997		229.0000	
Conductivity	UMHO	MW95P	10/16/1997		202.0000	
Conductivity	UMHO	MW95P	01/15/1998		228.0000	
Conductivity	UMHO	MW95P	04/21/1998		216.0000	
Conductivity	UMHO	MW95P	07/16/1998		231.0000	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date	Result
Conductivity	UMHO	MW95P	10/19/1998	214.0000
Conductivity	UMHO	MW95P	01/19/1999	245.0000
Conductivity	UMHO	MW95P	04/21/1999	230.0000
Conductivity	UMHO	MW95P	07/20/1999	316.0000
Conductivity	UMHO	MW95P	10/19/1999	232.0000
Conductivity	UMHO	MW95P	01/18/2000	180.0000
Conductivity	UMHO	MW95P	04/19/2000	230.0000
Conductivity	UMHO	MW95P	07/18/2000	213.0000
Conductivity	UMHO	MW95P	10/18/2000	252.0000
Conductivity	UMHO	MW95P	01/17/2001	263.0000
Conductivity	UMHO	MW95P	04/23/2001	241.0000
Conductivity	UMHO	MW95P	07/17/2001	190.0000
Conductivity	UMHO	MW95P	10/22/2001	224.0000
Conductivity	UMHO	MW95P	01/16/2002	217.0000
Conductivity	UMHO	MW95P	04/22/2002	252.0000
Conductivity	UMHO	MW95P	07/17/2002	215.0000
Conductivity	UMHO	MW95P	10/24/2002	202.0000
Conductivity	UMHO	MW95P	01/20/2003	210.0000
Conductivity	UMHO	MW95P	04/21/2003	211.0000
Conductivity	UMHO	MW95P	07/16/2003	219.0000
Conductivity	UMHO	MW95P	10/23/2003	208.0000
Conductivity	UMHO	MW95P	04/20/2004	214.0000
Conductivity	UMHO	MW95P	04/29/2005	252.0000
Conductivity	UMHO	MW95P	05/11/2006	182.0000
Conductivity	UMHO	MW95P	05/02/2007	176.0000
Conductivity	UMHO	MW95P	04/30/2008	175.0000
Conductivity	UMHO	MW95P	05/06/2009	164.0000
Conductivity	UMHO	MW95P	05/12/2010	171.0000
Conductivity	UMHO	MW95P	05/11/2011	173.0000
Conductivity	UMHO	MW95P	05/11/2012	191.0000
Conductivity	UMHO	MW95P	05/09/2013	184.0000
Conductivity	UMHO	MW95P	04/23/2014	187.0000
Conductivity	UMHO	MW95P	04/30/2015	161.0000
Conductivity	UMHO	MW95P	04/28/2016	220.0000
Conductivity	UMHO	MW95P	04/20/2017	153.0000
Conductivity	UMHO	MW96T	10/30/1993	288.0000
Conductivity	UMHO	MW96T	01/28/1994	285.0000
Conductivity	UMHO	MW96T	04/29/1994	268.0000
Conductivity	UMHO	MW96T	07/19/1994	281.0000
Conductivity	UMHO	MW96T	10/20/1994	285.0000
Conductivity	UMHO	MW96T	01/17/1995	237.0000
Conductivity	UMHO	MW96T	04/24/1995	215.0000
Conductivity	UMHO	MW96T	07/25/1995	254.0000
Conductivity	UMHO	MW96T	10/11/1995	210.0000
Conductivity	UMHO	MW96T	01/17/1996	219.0000
Conductivity	UMHO	MW96T	04/18/1996	206.0000
Conductivity	UMHO	MW96T	07/18/1996	260.0000
Conductivity	UMHO	MW96T	10/22/1996	272.0000
Conductivity	UMHO	MW96T	01/21/1997	177.0000
Conductivity	UMHO	MW96T	04/22/1997	242.0000
Conductivity	UMHO	MW96T	07/15/1997	267.0000
Conductivity	UMHO	MW96T	10/21/1997	243.0000
Conductivity	UMHO	MW96T	01/15/1998	246.0000
Conductivity	UMHO	MW96T	04/22/1998	279.0000
Conductivity	UMHO	MW96T	07/16/1998	241.0000
Conductivity	UMHO	MW96T	10/20/1998	245.0000
Conductivity	UMHO	MW96T	01/20/1999	204.0000

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	
Conductivity	UMHO	MW96T	04/21/1999		288.0000	
Conductivity	UMHO	MW96T	07/20/1999		360.0000	
Conductivity	UMHO	MW96T	10/19/1999		257.0000	
Conductivity	UMHO	MW96T	01/19/2000		223.0000	
Conductivity	UMHO	MW96T	04/19/2000		261.0000	
Conductivity	UMHO	MW96T	07/19/2000		277.0000	
Conductivity	UMHO	MW96T	10/18/2000		310.0000	
Conductivity	UMHO	MW96T	01/17/2001		319.0000	
Conductivity	UMHO	MW96T	04/19/2001		247.0000	
Conductivity	UMHO	MW96T	07/18/2001		254.0000	
Conductivity	UMHO	MW96T	10/18/2001		251.0000	
Conductivity	UMHO	MW96T	01/16/2002		227.0000	
Conductivity	UMHO	MW96T	04/18/2002		265.0000	
Conductivity	UMHO	MW96T	07/18/2002		275.0000	
Conductivity	UMHO	MW96T	10/24/2002		253.0000	
Conductivity	UMHO	MW96T	01/21/2003		221.0000	
Conductivity	UMHO	MW96T	04/21/2003		206.0000	
Conductivity	UMHO	MW96T	07/16/2003		193.0000	
Conductivity	UMHO	MW96T	10/23/2003		126.0000	
Conductivity	UMHO	MW96T	01/20/2004		172.0000	
Conductivity	UMHO	MW96T	01/27/2005		144.0000	
Conductivity	UMHO	MW96T	01/17/2006		192.0000	
Conductivity	UMHO	MW96T	02/08/2007		174.0000	
Conductivity	UMHO	MW96T	02/22/2008		162.0000	
Conductivity	UMHO	MW96T	02/06/2009		162.0000	
Conductivity	UMHO	MW96T	02/09/2010		170.0000	
Conductivity	UMHO	MW96T	02/17/2011		217.0000	
Conductivity	UMHO	MW96T	03/09/2012		189.0000	
Conductivity	UMHO	MW96T	02/19/2013		229.0000	
Conductivity	UMHO	MW96T	02/07/2014		129.0000	
Conductivity	UMHO	MW96T	02/04/2015		257.0000	
Conductivity	UMHO	MW96T	02/10/2016		126.0000	
Conductivity	UMHO	MW96T	02/01/2017		120.0000	
Conductivity	UMHO	MW97T	10/30/1993		194.0000	
Conductivity	UMHO	MW97T	02/25/1994		204.0000	
Conductivity	UMHO	MW97T	05/27/1994		189.0000	
Conductivity	UMHO	MW97T	07/20/1994		180.0000	
Conductivity	UMHO	MW97T	10/24/1994		178.0000	
Conductivity	UMHO	MW97T	01/17/1995		160.0000	
Conductivity	UMHO	MW97T	04/07/1995		185.0000	
Conductivity	UMHO	MW97T	07/25/1995		161.0000	
Conductivity	UMHO	MW98TR	07/25/1995		278.0000	
Conductivity	UMHO	MW98TR	10/25/1995		193.0000	
Conductivity	UMHO	MW98TR	01/17/1996		141.0000	
Conductivity	UMHO	MW98TR	04/23/1996		424.0000	
Conductivity	UMHO	MW98TR	07/18/1996		312.0000	
Conductivity	UMHO	MW98TR	10/22/1996		344.0000	
Conductivity	UMHO	MW98TR	01/21/1997		348.0000	
Conductivity	UMHO	MW98TR	04/22/1997		326.0000	
Conductivity	UMHO	MW98TR	07/15/1997		335.0000	
Conductivity	UMHO	MW98TR	10/21/1997		315.0000	
Conductivity	UMHO	MW98TR	01/20/1998		328.0000	
Conductivity	UMHO	MW98TR	07/16/1998		330.0000	
Conductivity	UMHO	MW98TR	10/20/1998		316.0000	
Conductivity	UMHO	MW98TR	01/20/1999		241.0000	
Conductivity	UMHO	MW98TR	04/21/1999		331.0000	
Conductivity	UMHO	MW98TR	07/20/1999		426.0000	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	
Conductivity	UMHO	MW98TR	10/19/1999		314.0000	
Conductivity	UMHO	MW98TR	01/19/2000		272.0000	
Conductivity	UMHO	MW98TR	04/19/2000		333.0000	
Conductivity	UMHO	MW98TR	07/19/2000		336.0000	
Conductivity	UMHO	MW98TR	10/18/2000		369.0000	
Conductivity	UMHO	MW98TR	01/17/2001		381.0000	
Conductivity	UMHO	MW98TR	04/19/2001		320.0000	
Conductivity	UMHO	MW98TR	07/18/2001		329.0000	
Conductivity	UMHO	MW98TR	10/18/2001		307.0000	
Conductivity	UMHO	MW98TR	01/16/2002		328.0000	
Conductivity	UMHO	MW98TR	04/18/2002		335.0000	
Conductivity	UMHO	MW98TR	07/18/2002		347.0000	
Conductivity	UMHO	MW98TR	10/24/2002		305.0000	
Conductivity	UMHO	MW98TR	01/21/2003		311.0000	
Conductivity	UMHO	MW98TR	04/21/2003		310.0000	
Conductivity	UMHO	MW98TR	07/16/2003		316.0000	
Conductivity	UMHO	MW98TR	10/23/2003		300.0000	
Conductivity	UMHO	MW98TR	01/20/2004		308.0000	
Conductivity	UMHO	MW98TR	01/27/2005		341.0000	
Conductivity	UMHO	MW98TR	01/17/2006		274.0000	
Conductivity	UMHO	MW98TR	02/08/2007		230.0000	
Conductivity	UMHO	MW98TR	02/22/2008		236.0000	
Conductivity	UMHO	MW98TR	02/06/2009		263.0000	
Conductivity	UMHO	MW98TR	02/09/2010		277.0000	
Conductivity	UMHO	MW98TR	02/17/2011		347.0000	
Conductivity	UMHO	MW98TR	03/09/2012		308.0000	
Conductivity	UMHO	MW98TR	02/15/2013		359.0000	
Conductivity	UMHO	MW98TR	02/06/2014		315.0000	
Conductivity	UMHO	MW98TR	02/04/2015		256.0000	
Conductivity	UMHO	MW98TR	02/10/2016		330.0000	
Conductivity	UMHO	MW98TR	02/01/2017		170.0000	
Conductivity	UMHO	PSDL17A	01/30/1993		223.0000	
Conductivity	UMHO	PSDL17A	03/30/1993		224.0000	
Conductivity	UMHO	PSDL17A	06/30/1993		252.0000	
Conductivity	UMHO	PSDL17A	07/30/1993		201.0000	
Conductivity	UMHO	PSDL17A	09/30/1993		210.0000	
Conductivity	UMHO	PSDL17A	11/30/1993		196.0000	
Conductivity	UMHO	PSDL17A	12/30/1993		197.0000	
Conductivity	UMHO	PSDL17A	02/25/1994		266.0000	
Conductivity	UMHO	PSDL17A	05/27/1994		163.0000	
Conductivity	UMHO	PSDL17A	07/06/1994		265.0000	
Conductivity	UMHO	PSDL17A	10/20/1994		199.0000	
Conductivity	UMHO	PSDL17A	01/09/1995		195.0000	
Conductivity	UMHO	PSDL17A	04/07/1995		189.0000	
Conductivity	UMHO	PSDL17A	07/17/1995		173.0000	
Conductivity	UMHO	PSDL17A	10/11/1995		130.0000	
Conductivity	UMHO	PSDL17A	01/16/1996		175.0000	
Conductivity	UMHO	PSDL17A	04/10/1996		218.0000	
Conductivity	UMHO	PSDL17A	07/18/1996		204.0000	
Conductivity	UMHO	PSDL17A	10/22/1996		213.0000	
Conductivity	UMHO	PSDL17A	01/20/1997		258.0000	
Conductivity	UMHO	PSDL17A	04/22/1997		222.0000	
Conductivity	UMHO	PSDL17A	07/16/1997		199.0000	
Conductivity	UMHO	PSDL17A	10/16/1997		205.0000	
Conductivity	UMHO	PSDL17A	01/20/1998		207.0000	
Conductivity	UMHO	PSDL17A	04/22/1998		185.0000	
Conductivity	UMHO	PSDL17A	07/16/1998		232.0000	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	
Conductivity	UMHO	PSDL17A	10/19/1998		208.0000	
Conductivity	UMHO	PSDL17A	01/19/1999		229.0000	
Conductivity	UMHO	PSDL17A	04/20/1999		227.0000	
Conductivity	UMHO	PSDL17A	07/20/1999		257.0000	
Conductivity	UMHO	PSDL17A	10/18/1999		221.0000	
Conductivity	UMHO	PSDL17A	01/18/2000		169.0000	
Conductivity	UMHO	PSDL17A	04/18/2000		218.0000	
Conductivity	UMHO	PSDL17A	07/18/2000		206.0000	
Conductivity	UMHO	PSDL17A	10/17/2000		256.0000	
Conductivity	UMHO	PSDL17A	01/16/2001		272.0000	
Conductivity	UMHO	PSDL17A	04/18/2001		214.0000	
Conductivity	UMHO	PSDL17A	07/17/2001		183.0000	
Conductivity	UMHO	PSDL17A	10/17/2001		191.0000	
Conductivity	UMHO	PSDL17A	01/16/2002		210.0000	
Conductivity	UMHO	PSDL17A	04/16/2002		178.0000	
Conductivity	UMHO	PSDL17A	07/17/2002		205.0000	
Conductivity	UMHO	PSDL17A	10/22/2002		214.0000	
Conductivity	UMHO	PSDL17A	01/20/2003		207.0000	
Conductivity	UMHO	PSDL17A	04/21/2003		212.0000	
Conductivity	UMHO	PSDL17A	07/15/2003		215.0000	
Conductivity	UMHO	PSDL17A	10/23/2003		204.0000	
Conductivity	UMHO	PSDL17A	01/19/2004		218.0000	
Conductivity	UMHO	PSDL17A	01/26/2005		191.0000	
Conductivity	UMHO	PSDL17A	01/13/2006		155.0000	
Conductivity	UMHO	PSDL17A	02/07/2007		172.0000	
Conductivity	UMHO	PSDL17A	02/21/2008		149.0000	
Conductivity	UMHO	PSDL17A	02/05/2009		137.0000	
Conductivity	UMHO	PSDL17A	02/09/2010		139.0000	
Conductivity	UMHO	PSDL17A	02/15/2011		150.0000	
Conductivity	UMHO	PSDL17A	03/08/2012		169.0000	
Conductivity	UMHO	PSDL17A	02/14/2013		199.0000	
Conductivity	UMHO	PSDL17A	02/06/2014		170.0000	
Conductivity	UMHO	PSDL17A	02/04/2015		203.0000	
Conductivity	UMHO	PSDL17A	02/05/2016		223.0000	
Conductivity	UMHO	PSDL17A	01/31/2017		120.0000	
Conductivity	UMHO	UBC25	02/28/1993		325.0000	
Conductivity	UMHO	UBC25	08/30/1993		205.0000	
Conductivity	UMHO	UBC25	10/30/1993		189.0000	
Conductivity	UMHO	UBC25	02/25/1994		182.0000	
Conductivity	UMHO	UBC25	05/27/1994		230.0000	
Conductivity	UMHO	UBC25	10/20/1994		188.0000	
Conductivity	UMHO	UBC25	04/20/1995		159.0000	
Conductivity	UMHO	UBC25	10/25/1995		170.0000	
Conductivity	UMHO	UBC25	04/23/1996		187.0000	
Conductivity	UMHO	UBC25	10/22/1996		179.0000	
Conductivity	UMHO	UBC25	04/22/1997		176.0000	
Conductivity	UMHO	UBC25	10/21/1997		165.0000	
Conductivity	UMHO	UBC25	04/21/1998		177.0000	
Conductivity	UMHO	UBC25	10/20/1998		168.0000	
Conductivity	UMHO	UBC25	04/21/1999		181.0000	
Conductivity	UMHO	UBC25	10/19/1999		158.0000	
Conductivity	UMHO	UBC25	04/19/2000		168.0000	
Conductivity	UMHO	UBC25	07/19/2000		196.0000	
Conductivity	UMHO	UBC25	10/18/2000		209.0000	
Conductivity	UMHO	UBC25	04/23/2001		177.0000	
Conductivity	UMHO	UBC25	10/22/2001		167.0000	
Conductivity	UMHO	UBC25	04/22/2002		173.0000	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	
Conductivity	UMHO	UBC25	10/24/2002		170.0000	
Conductivity	UMHO	UBC25	04/21/2003		164.0000	
Conductivity	UMHO	UBC25	10/23/2003		164.0000	
Conductivity	UMHO	UBC25	07/20/2004		184.0000	
Conductivity	UMHO	UBC25	07/28/2005		160.0000	
Conductivity	UMHO	UBC25	08/09/2006		188.0000	
Conductivity	UMHO	UBC25	08/10/2007		161.0000	
Conductivity	UMHO	UBC25	08/08/2008		154.0000	
Conductivity	UMHO	UBC25	07/31/2009		146.0000	
Conductivity	UMHO	UBC25	08/06/2010		140.0000	
Conductivity	UMHO	UBC25	08/08/2011		146.0000	
Conductivity	UMHO	UBC25	08/13/2012		165.0000	
Conductivity	UMHO	UBC25	08/08/2013		179.0000	
Conductivity	UMHO	UBC25	07/30/2014		159.0000	
Conductivity	UMHO	UBC25	08/17/2015		163.0000	
Conductivity	UMHO	UBC25	08/19/2016		130.0000	
Conductivity	UMHO	UBC25	07/27/2017		110.0000	
Conductivity	UMHO	UBC27	02/28/1993		244.0000	
Conductivity	UMHO	UBC27	08/30/1993		177.0000	
Conductivity	UMHO	UBC27	10/30/1993		170.0000	
Conductivity	UMHO	UBC27	02/25/1994		167.0000	
Conductivity	UMHO	UBC27	05/27/1994		197.0000	
Conductivity	UMHO	UBC27	10/20/1994		163.0000	
Conductivity	UMHO	UBC27	04/20/1995		142.0000	
Conductivity	UMHO	UBC27	10/25/1995		156.0000	
Conductivity	UMHO	UBC27	04/23/1996		177.0000	
Conductivity	UMHO	UBC27	10/22/1996		166.0000	
Conductivity	UMHO	UBC27	04/22/1997		168.0000	
Conductivity	UMHO	UBC27	10/23/1997		154.0000	
Conductivity	UMHO	UBC27	04/21/1998		169.0000	
Conductivity	UMHO	UBC27	10/20/1998		159.0000	
Conductivity	UMHO	UBC27	04/21/1999		166.0000	
Conductivity	UMHO	UBC27	10/19/1999		156.0000	
Conductivity	UMHO	UBC27	04/19/2000		163.0000	
Conductivity	UMHO	UBC27	07/18/2000		158.0000	
Conductivity	UMHO	UBC27	10/18/2000		199.0000	
Conductivity	UMHO	UBC27	04/23/2001		187.0000	
Conductivity	UMHO	UBC27	10/22/2001		175.0000	
Conductivity	UMHO	UBC27	04/22/2002		168.0000	
Conductivity	UMHO	UBC27	10/24/2002		159.0000	
Conductivity	UMHO	UBC27	04/21/2003		157.0000	
Conductivity	UMHO	UBC27	10/23/2003		153.0000	
Conductivity	UMHO	UBC27	07/20/2004		176.0000	
Conductivity	UMHO	UBC27	07/28/2005		158.0000	
Conductivity	UMHO	UBC27	08/09/2006		170.0000	
Conductivity	UMHO	UBC27	08/10/2007		160.0000	
Conductivity	UMHO	UBC27	08/08/2008		138.0000	
Conductivity	UMHO	UBC27	07/31/2009		136.0000	
Conductivity	UMHO	UBC27	08/06/2010		139.0000	
Conductivity	UMHO	UBC27	08/08/2011		141.0000	
Conductivity	UMHO	UBC27	08/13/2012		161.0000	
Conductivity	UMHO	UBC27	08/08/2013		171.0000	
Conductivity	UMHO	UBC27	07/30/2014		150.0000	
Conductivity	UMHO	UBC27	08/17/2015		149.0000	
Conductivity	UMHO	UBC27	08/19/2016		130.0000	
Conductivity	UMHO	UBC27	07/27/2017		100.0000	
Conductivity	UMHO	UBC28AR	10/25/1995		259.0000	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result
Conductivity	UMHO	UBC28AR	04/18/1996		300.0000
Conductivity	UMHO	UBC28AR	10/17/1996		266.0000
Conductivity	UMHO	UBC28AR	04/22/1997		333.0000
Conductivity	UMHO	UBC28AR	10/16/1997		272.0000
Conductivity	UMHO	UBC28AR	04/21/1998		277.0000
Conductivity	UMHO	UBC28AR	10/19/1998		272.0000
Conductivity	UMHO	UBC28AR	04/21/1999		287.0000
Conductivity	UMHO	UBC28AR	10/19/1999		210.0000
Conductivity	UMHO	UBC28AR	04/19/2000		272.0000
Conductivity	UMHO	UBC28AR	07/19/2000		252.0000
Conductivity	UMHO	UBC28AR	10/18/2000		287.0000
Conductivity	UMHO	UBC28AR	04/23/2001		256.0000
Conductivity	UMHO	UBC28AR	10/22/2001		250.0000
Conductivity	UMHO	UBC28AR	04/22/2002		272.0000
Conductivity	UMHO	UBC28AR	10/24/2002		242.0000
Conductivity	UMHO	UBC28AR	04/21/2003		255.0000
Conductivity	UMHO	UBC28AR	10/23/2003		245.0000
Conductivity	UMHO	UBC28AR	07/20/2004		286.0000
Conductivity	UMHO	UBC28AR	07/28/2005		257.0000
Conductivity	UMHO	UBC28AR	08/09/2006		307.0000
Conductivity	UMHO	UBC28AR	08/10/2007		253.0000
Conductivity	UMHO	UBC28AR	08/08/2008		253.0000
Conductivity	UMHO	UBC28AR	07/31/2009		251.0000
Conductivity	UMHO	UBC28AR	08/06/2010		242.0000
Conductivity	UMHO	UBC28AR	08/05/2011		246.0000
Conductivity	UMHO	UBC28AR	08/10/2012		276.0000
Conductivity	UMHO	UBC28AR	08/08/2013		286.0000
Conductivity	UMHO	UBC28AR	07/30/2014		235.0000
Conductivity	UMHO	UBC28AR	08/14/2015		275.0000
Conductivity	UMHO	UBC28AR	08/10/2016		170.0000
Conductivity	UMHO	UBC28AR	07/27/2017		120.0000
Lead	UG/L	MW1	01/11/1993	ND	25.0000
Lead	UG/L	MW1	03/04/1993	ND	25.0000
Lead	UG/L	MW1	05/03/1993	ND	25.0000
Lead	UG/L	MW1	06/03/1993	ND	25.0000
Lead	UG/L	MW1	07/06/1993	ND	25.0000
Lead	UG/L	MW1	09/07/1993	ND	25.0000
Lead	UG/L	MW1	11/04/1993	ND	25.0000
Lead	UG/L	MW1	12/06/1993	ND	25.0000
Lead	UG/L	MW1	02/14/1994	ND	25.0000
Lead	UG/L	MW1	05/11/1994	ND	25.0000
Lead	UG/L	MW1	07/19/1994	ND	25.0000
Lead	UG/L	MW1	10/19/1994	ND	25.0000
Lead	UG/L	MW1	01/16/1995	ND	25.0000
Lead	UG/L	MW1	04/19/1995	ND	25.0000
Lead	UG/L	MW1	07/24/1995	ND	25.0000
Lead	UG/L	MW1	10/24/1995	ND	25.0000
Lead	UG/L	MW1	01/22/1996	ND	25.0000
Lead	UG/L	MW1	04/22/1996	ND	25.0000
Lead	UG/L	MW1	07/22/1996	ND	25.0000
Lead	UG/L	MW1	10/21/1996	ND	25.0000
Lead	UG/L	MW1	01/20/1997	ND	25.0000
Lead	UG/L	MW1	04/21/1997	ND	25.0000
Lead	UG/L	MW1	07/15/1997	ND	25.0000
Lead	UG/L	MW1	10/16/1997	ND	25.0000
Lead	UG/L	MW1	01/19/1998	ND	25.0000
Lead	UG/L	MW1	04/20/1998	ND	25.0000

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result
Lead	UG/L	MW1	07/15/1998	ND	25.0000
Lead	UG/L	MW1	10/19/1998	ND	25.0000
Lead	UG/L	MW1	01/18/1999	ND	25.0000
Lead	UG/L	MW1	04/20/1999	ND	25.0000
Lead	UG/L	MW1	07/19/1999	ND	5.0000
Lead	UG/L	MW1	10/18/1999	ND	5.0000
Lead	UG/L	MW1	01/17/2000	ND	25.0000
Lead	UG/L	MW1	04/18/2000	ND	25.0000
Lead	UG/L	MW1	07/17/2000	ND	25.0000
Lead	UG/L	MW1	10/17/2000	ND	25.0000
Lead	UG/L	MW1	01/16/2001	ND	25.0000
Lead	UG/L	MW1	04/18/2001	ND	25.0000
Lead	UG/L	MW1	07/16/2001	ND	25.0000
Lead	UG/L	MW1	10/17/2001	ND	25.0000
Lead	UG/L	MW1	01/15/2002	ND	25.0000
Lead	UG/L	MW1	04/16/2002	ND	25.0000
Lead	UG/L	MW1	07/16/2002	ND	25.0000
Lead	UG/L	MW1	10/22/2002	ND	25.0000
Lead	UG/L	MW1	01/20/2003	ND	25.0000
Lead	UG/L	MW1	04/16/2003	ND	25.0000
Lead	UG/L	MW1	07/14/2003	ND	25.0000
Lead	UG/L	MW1	10/21/2003	ND	25.0000
Lead	UG/L	MW1	01/19/2004	ND	15.0000
Lead	UG/L	MW1	01/26/2005	ND	15.0000
Lead	UG/L	MW1	01/12/2006	ND	15.0000
Lead	UG/L	MW1	02/07/2007	ND	15.0000
Lead	UG/L	MW126T	11/08/1995	ND	25.0000
Lead	UG/L	MW126T	02/29/1996	ND	25.0000
Lead	UG/L	MW126T	04/23/1996	ND	25.0000
Lead	UG/L	MW126T	07/22/1996	ND	25.0000
Lead	UG/L	MW126T	10/21/1996	ND	25.0000
Lead	UG/L	MW126T	01/20/1997	ND	25.0000
Lead	UG/L	MW126T	04/23/1997	ND	25.0000
Lead	UG/L	MW126T	07/15/1997	ND	25.0000
Lead	UG/L	MW126T	10/16/1997	ND	25.0000
Lead	UG/L	MW126T	01/19/1998	ND	25.0000
Lead	UG/L	MW126T	04/16/1998	ND	25.0000
Lead	UG/L	MW126T	07/16/1998	ND	25.0000
Lead	UG/L	MW126T	10/15/1998	ND	25.0000
Lead	UG/L	MW126T	01/18/1999	ND	25.0000
Lead	UG/L	MW126T	04/21/1999	ND	25.0000
Lead	UG/L	MW126T	07/19/1999	ND	5.0000
Lead	UG/L	MW126T	10/20/1999	ND	5.0000
Lead	UG/L	MW126T	01/17/2000	ND	25.0000
Lead	UG/L	MW126T	04/19/2000	ND	25.0000
Lead	UG/L	MW126T	07/17/2000	ND	25.0000
Lead	UG/L	MW126T	10/18/2000	ND	25.0000
Lead	UG/L	MW126T	01/18/2001	ND	25.0000
Lead	UG/L	MW126T	04/19/2001	ND	25.0000
Lead	UG/L	MW126T	07/16/2001	ND	25.0000
Lead	UG/L	MW126T	10/18/2001	ND	25.0000
Lead	UG/L	MW126T	01/17/2002	ND	25.0000
Lead	UG/L	MW126T	04/18/2002	ND	25.0000
Lead	UG/L	MW126T	07/17/2002	ND	25.0000
Lead	UG/L	MW126T	10/24/2002	ND	25.0000
Lead	UG/L	MW126T	01/20/2003	ND	25.0000
Lead	UG/L	MW126T	04/21/2003	ND	25.0000

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	
Lead	UG/L	MW126T	07/16/2003	ND	25.0000	
Lead	UG/L	MW126T	10/23/2003	ND	25.0000	
Lead	UG/L	MW126T	01/19/2004	ND	15.0000	
Lead	UG/L	MW126T	01/26/2005	ND	15.0000	
Lead	UG/L	MW126T	01/16/2006	ND	15.0000	
Lead	UG/L	MW126T	02/09/2007	ND	15.0000	
Lead	UG/L	MW126T	02/22/2008	ND	15.0000	
Lead	UG/L	MW126T	02/06/2009	ND	15.0000	
Lead	UG/L	MW126T	02/10/2010	ND	10.0000	
Lead	UG/L	MW126T	02/17/2011	ND	15.0000	
Lead	UG/L	MW126T	03/09/2012	ND	15.0000	
Lead	UG/L	MW126T	02/15/2013	ND	15.0000	
Lead	UG/L	MW126T	02/06/2014	ND	15.0000	
Lead	UG/L	MW126T	02/05/2015	ND	15.0000	
Lead	UG/L	MW126T	02/10/2016	ND	15.0000	
Lead	UG/L	MW126T	02/02/2017	ND	15.0000	
Lead	UG/L	MW92SR	07/25/1995	ND	25.0000	
Lead	UG/L	MW92SR	10/25/1995	ND	25.0000	
Lead	UG/L	MW92SR	01/17/1996	ND	25.0000	
Lead	UG/L	MW92SR	04/23/1996	ND	25.0000	
Lead	UG/L	MW92SR	07/18/1996	ND	25.0000	
Lead	UG/L	MW92SR	10/22/1996	ND	25.0000	
Lead	UG/L	MW92SR	01/20/1997	ND	25.0000	
Lead	UG/L	MW92SR	04/22/1997	ND	25.0000	
Lead	UG/L	MW92SR	07/16/1997	ND	25.0000	
Lead	UG/L	MW92SR	10/21/1997	ND	25.0000	
Lead	UG/L	MW92SR	01/21/1998	ND	25.0000	
Lead	UG/L	MW92SR	04/21/1998	ND	25.0000	
Lead	UG/L	MW92SR	07/16/1998	ND	25.0000	
Lead	UG/L	MW92SR	10/20/1998	ND	25.0000	
Lead	UG/L	MW92SR	01/19/1999	ND	25.0000	
Lead	UG/L	MW92SR	04/21/1999	ND	25.0000	
Lead	UG/L	MW92SR	07/20/1999	ND	5.0000	
Lead	UG/L	MW92SR	10/19/1999	ND	5.0000	
Lead	UG/L	MW92SR	01/18/2000	ND	25.0000	
Lead	UG/L	MW92SR	04/19/2000	ND	25.0000	
Lead	UG/L	MW92SR	07/18/2000	ND	25.0000	
Lead	UG/L	MW92SR	10/18/2000	ND	25.0000	
Lead	UG/L	MW92SR	01/17/2001	ND	25.0000	
Lead	UG/L	MW92SR	04/23/2001	ND	25.0000	
Lead	UG/L	MW92SR	07/17/2001	ND	25.0000	
Lead	UG/L	MW92SR	10/22/2001	ND	25.0000	
Lead	UG/L	MW92SR	01/16/2002	ND	25.0000	
Lead	UG/L	MW92SR	04/22/2002	ND	25.0000	
Lead	UG/L	MW92SR	07/17/2002	ND	25.0000	
Lead	UG/L	MW92SR	10/24/2002	ND	25.0000	
Lead	UG/L	MW92SR	01/20/2003	ND	25.0000	
Lead	UG/L	MW92SR	04/21/2003	ND	25.0000	
Lead	UG/L	MW92SR	07/16/2003	ND	25.0000	
Lead	UG/L	MW92SR	10/23/2003	ND	25.0000	
Lead	UG/L	MW92SR	01/20/2004	ND	15.0000	
Lead	UG/L	MW92SR	01/27/2005	ND	15.0000	
Lead	UG/L	MW92SR	01/13/2006	ND	15.0000	
Lead	UG/L	MW92SR	02/08/2007	ND	15.0000	
Lead	UG/L	MW92SR	02/21/2008	ND	15.0000	
Lead	UG/L	MW92SR	02/04/2009	ND	15.0000	
Lead	UG/L	MW92SR	02/08/2010	ND	10.0000	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result
Lead	UG/L	MW92SR	02/15/2011	ND	15.0000
Lead	UG/L	MW92SR	03/08/2012	ND	15.0000
Lead	UG/L	MW92SR	02/14/2013	ND	15.0000
Lead	UG/L	MW92SR	02/06/2014	ND	15.0000
Lead	UG/L	MW92SR	02/04/2015	ND	15.0000
Lead	UG/L	MW92SR	01/29/2016	ND	15.0000
Lead	UG/L	MW92SR	01/27/2017	ND	15.0000
Lead	UG/L	MW93PR	07/25/1995	ND	25.0000
Lead	UG/L	MW93PR	10/25/1995	ND	25.0000
Lead	UG/L	MW93PR	01/17/1996	ND	25.0000
Lead	UG/L	MW93PR	04/23/1996	ND	25.0000
Lead	UG/L	MW93PR	07/18/1996	ND	25.0000
Lead	UG/L	MW93PR	10/22/1996	ND	25.0000
Lead	UG/L	MW93PR	01/20/1997	ND	25.0000
Lead	UG/L	MW93PR	04/22/1997	ND	25.0000
Lead	UG/L	MW93PR	07/16/1997	ND	25.0000
Lead	UG/L	MW93PR	10/23/1997	ND	25.0000
Lead	UG/L	MW93PR	01/21/1998	ND	25.0000
Lead	UG/L	MW93PR	04/21/1998	ND	25.0000
Lead	UG/L	MW93PR	07/16/1998	ND	25.0000
Lead	UG/L	MW93PR	10/20/1998	ND	25.0000
Lead	UG/L	MW93PR	01/19/1999	ND	25.0000
Lead	UG/L	MW93PR	04/21/1999	ND	25.0000
Lead	UG/L	MW93PR	07/20/1999	ND	5.0000
Lead	UG/L	MW93PR	10/19/1999	ND	5.0000
Lead	UG/L	MW93PR	01/18/2000	ND	25.0000
Lead	UG/L	MW93PR	04/19/2000	ND	25.0000
Lead	UG/L	MW93PR	07/18/2000	ND	25.0000
Lead	UG/L	MW93PR	10/18/2000	ND	25.0000
Lead	UG/L	MW93PR	01/17/2001	ND	25.0000
Lead	UG/L	MW93PR	04/23/2001	ND	25.0000
Lead	UG/L	MW93PR	07/17/2001	ND	25.0000
Lead	UG/L	MW93PR	10/22/2001	ND	25.0000
Lead	UG/L	MW93PR	01/16/2002	ND	25.0000
Lead	UG/L	MW93PR	04/22/2002	ND	25.0000
Lead	UG/L	MW93PR	07/17/2002	ND	25.0000
Lead	UG/L	MW93PR	10/24/2002	ND	25.0000
Lead	UG/L	MW93PR	01/20/2003	ND	25.0000
Lead	UG/L	MW93PR	04/21/2003	ND	25.0000
Lead	UG/L	MW93PR	07/16/2003	ND	25.0000
Lead	UG/L	MW93PR	10/23/2003	ND	25.0000
Lead	UG/L	MW93PR	04/20/2004	ND	15.0000
Lead	UG/L	MW93PR	04/29/2005	ND	15.0000
Lead	UG/L	MW93PR	05/11/2006	ND	15.0000
Lead	UG/L	MW93PR	05/02/2007	ND	15.0000
Lead	UG/L	MW93PR	04/30/2008	ND	15.0000
Lead	UG/L	MW93PR	05/06/2009	ND	15.0000
Lead	UG/L	MW93PR	05/12/2010	ND	15.0000
Lead	UG/L	MW93PR	05/12/2011	ND	15.0000
Lead	UG/L	MW93PR	05/11/2012	ND	15.0000
Lead	UG/L	MW93PR	05/09/2013	ND	15.0000
Lead	UG/L	MW93PR	04/30/2014	ND	15.0000
Lead	UG/L	MW93PR	05/06/2015	ND	15.0000
Lead	UG/L	MW93PR	05/03/2016	ND	15.0000
Lead	UG/L	MW93PR	04/27/2017	ND	10.0000
Lead	UG/L	MW94PR	07/26/1995	ND	25.0000
Lead	UG/L	MW94PR	10/25/1995	ND	25.0000

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result
Lead	UG/L	MW94PR	01/17/1996	ND	25.0000
Lead	UG/L	MW94PR	04/23/1996	ND	25.0000
Lead	UG/L	MW94PR	07/18/1996	ND	25.0000
Lead	UG/L	MW94PR	10/22/1996	ND	25.0000
Lead	UG/L	MW94PR	01/20/1997	ND	25.0000
Lead	UG/L	MW94PR	04/23/1997	ND	25.0000
Lead	UG/L	MW94PR	07/15/1997	ND	25.0000
Lead	UG/L	MW94PR	10/21/1997	ND	25.0000
Lead	UG/L	MW94PR	01/15/1998	ND	25.0000
Lead	UG/L	MW94PR	04/22/1998	ND	25.0000
Lead	UG/L	MW94PR	07/16/1998	ND	25.0000
Lead	UG/L	MW94PR	10/21/1998	ND	25.0000
Lead	UG/L	MW94PR	01/18/1999	ND	25.0000
Lead	UG/L	MW94PR	04/21/1999	ND	25.0000
Lead	UG/L	MW94PR	07/19/1999	ND	5.0000
Lead	UG/L	MW94PR	10/19/1999	ND	5.0000
Lead	UG/L	MW94PR	01/17/2000	ND	25.0000
Lead	UG/L	MW94PR	04/19/2000	ND	25.0000
Lead	UG/L	MW94PR	07/17/2000	ND	25.0000
Lead	UG/L	MW94PR	10/18/2000	ND	25.0000
Lead	UG/L	MW94PR	01/18/2001	ND	25.0000
Lead	UG/L	MW94PR	04/19/2001	ND	25.0000
Lead	UG/L	MW94PR	07/16/2001	ND	25.0000
Lead	UG/L	MW94PR	10/18/2001	ND	25.0000
Lead	UG/L	MW94PR	01/17/2002	ND	25.0000
Lead	UG/L	MW94PR	04/18/2002	ND	25.0000
Lead	UG/L	MW94PR	07/17/2002	ND	25.0000
Lead	UG/L	MW94PR	10/24/2002	ND	25.0000
Lead	UG/L	MW94PR	01/20/2003	ND	25.0000
Lead	UG/L	MW94PR	04/21/2003	ND	25.0000
Lead	UG/L	MW94PR	07/16/2003	ND	25.0000
Lead	UG/L	MW94PR	10/23/2003	ND	25.0000
Lead	UG/L	MW94PR	04/20/2004	ND	15.0000
Lead	UG/L	MW94PR	04/29/2005	ND	15.0000
Lead	UG/L	MW94PR	05/11/2006	ND	15.0000
Lead	UG/L	MW94PR	05/03/2007	ND	15.0000
Lead	UG/L	MW94PR	05/01/2008	ND	15.0000
Lead	UG/L	MW94PR	05/07/2009	ND	15.0000
Lead	UG/L	MW94PR	05/14/2010	ND	15.0000
Lead	UG/L	MW94PR	05/13/2011	ND	15.0000
Lead	UG/L	MW94PR	05/11/2012	ND	15.0000
Lead	UG/L	MW94PR	05/09/2013	ND	15.0000
Lead	UG/L	MW94PR	04/30/2014	ND	15.0000
Lead	UG/L	MW94PR	05/06/2015	ND	15.0000
Lead	UG/L	MW94PR	05/03/2016	ND	15.0000
Lead	UG/L	MW94PR	04/28/2017	ND	10.0000
Lead	UG/L	MW95P	02/10/1993	ND	25.0000
Lead	UG/L	MW95P	04/14/1993	ND	25.0000
Lead	UG/L	MW95P	08/10/1993	ND	25.0000
Lead	UG/L	MW95P	10/13/1993	ND	25.0000
Lead	UG/L	MW95P	02/14/1994	ND	25.0000
Lead	UG/L	MW95P	05/09/1994	ND	25.0000
Lead	UG/L	MW95P	07/20/1994	ND	25.0000
Lead	UG/L	MW95P	10/20/1994	ND	25.0000
Lead	UG/L	MW95P	01/17/1995	ND	25.0000
Lead	UG/L	MW95P	04/24/1995	ND	25.0000
Lead	UG/L	MW95P	07/25/1995	ND	25.0000

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	
Lead	UG/L	MW95P	10/23/1995	ND	25.0000	
Lead	UG/L	MW95P	01/23/1996	ND	25.0000	
Lead	UG/L	MW95P	04/15/1996	ND	25.0000	
Lead	UG/L	MW95P	07/18/1996	ND	25.0000	
Lead	UG/L	MW95P	10/22/1996	ND	25.0000	
Lead	UG/L	MW95P	01/20/1997	ND	25.0000	
Lead	UG/L	MW95P	04/22/1997	ND	25.0000	
Lead	UG/L	MW95P	07/16/1997	ND	25.0000	
Lead	UG/L	MW95P	10/16/1997	ND	25.0000	
Lead	UG/L	MW95P	01/15/1998	ND	25.0000	
Lead	UG/L	MW95P	04/21/1998	ND	25.0000	
Lead	UG/L	MW95P	07/16/1998	ND	25.0000	
Lead	UG/L	MW95P	10/19/1998	ND	25.0000	
Lead	UG/L	MW95P	01/19/1999	ND	25.0000	
Lead	UG/L	MW95P	04/21/1999	ND	25.0000	
Lead	UG/L	MW95P	07/20/1999	ND	5.0000	
Lead	UG/L	MW95P	10/19/1999	ND	5.0000	
Lead	UG/L	MW95P	01/18/2000	ND	25.0000	
Lead	UG/L	MW95P	04/19/2000	ND	25.0000	
Lead	UG/L	MW95P	07/18/2000	ND	25.0000	
Lead	UG/L	MW95P	10/18/2000	ND	25.0000	
Lead	UG/L	MW95P	01/17/2001	ND	25.0000	
Lead	UG/L	MW95P	04/23/2001	ND	25.0000	
Lead	UG/L	MW95P	07/17/2001	ND	25.0000	
Lead	UG/L	MW95P	10/22/2001	ND	25.0000	
Lead	UG/L	MW95P	01/16/2002	ND	25.0000	
Lead	UG/L	MW95P	04/22/2002	ND	25.0000	
Lead	UG/L	MW95P	07/17/2002	ND	25.0000	
Lead	UG/L	MW95P	10/24/2002	ND	25.0000	
Lead	UG/L	MW95P	01/20/2003	ND	25.0000	
Lead	UG/L	MW95P	04/21/2003	ND	25.0000	
Lead	UG/L	MW95P	07/16/2003	ND	25.0000	
Lead	UG/L	MW95P	10/23/2003	ND	25.0000	
Lead	UG/L	MW95P	04/20/2004	ND	15.0000	
Lead	UG/L	MW95P	04/29/2005	ND	15.0000	
Lead	UG/L	MW95P	05/11/2006	ND	15.0000	
Lead	UG/L	MW95P	05/02/2007	ND	15.0000	
Lead	UG/L	MW95P	04/30/2008	ND	15.0000	
Lead	UG/L	MW95P	05/06/2009	ND	15.0000	
Lead	UG/L	MW95P	05/12/2010	ND	15.0000	
Lead	UG/L	MW95P	05/11/2011	ND	15.0000	
Lead	UG/L	MW95P	05/11/2012	ND	15.0000	
Lead	UG/L	MW95P	05/09/2013	ND	15.0000	
Lead	UG/L	MW95P	04/23/2014	ND	15.0000	
Lead	UG/L	MW95P	04/30/2015	ND	15.0000	
Lead	UG/L	MW95P	04/28/2016	ND	15.0000	
Lead	UG/L	MW95P	04/20/2017	ND	10.0000	
Lead	UG/L	MW96T	04/14/1993	ND	25.0000	
Lead	UG/L	MW96T	08/11/1993	ND	25.0000	
Lead	UG/L	MW96T	10/13/1993	ND	25.0000	
Lead	UG/L	MW96T	01/04/1994	ND	25.0000	
Lead	UG/L	MW96T	04/05/1994	ND	25.0000	
Lead	UG/L	MW96T	07/19/1994	ND	25.0000	
Lead	UG/L	MW96T	10/20/1994	ND	25.0000	
Lead	UG/L	MW96T	01/17/1995	ND	25.0000	
Lead	UG/L	MW96T	04/24/1995	ND	25.0000	
Lead	UG/L	MW96T	07/25/1995	ND	25.0000	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result
Lead	UG/L	MW96T	10/11/1995	ND	25.0000
Lead	UG/L	MW96T	01/17/1996	ND	25.0000
Lead	UG/L	MW96T	04/18/1996	ND	25.0000
Lead	UG/L	MW96T	07/18/1996	ND	25.0000
Lead	UG/L	MW96T	10/22/1996	ND	25.0000
Lead	UG/L	MW96T	01/21/1997	ND	25.0000
Lead	UG/L	MW96T	04/22/1997	ND	25.0000
Lead	UG/L	MW96T	07/15/1997	ND	25.0000
Lead	UG/L	MW96T	10/21/1997	ND	25.0000
Lead	UG/L	MW96T	01/15/1998	ND	25.0000
Lead	UG/L	MW96T	04/22/1998	ND	25.0000
Lead	UG/L	MW96T	07/16/1998	ND	25.0000
Lead	UG/L	MW96T	10/20/1998	ND	25.0000
Lead	UG/L	MW96T	01/20/1999	ND	25.0000
Lead	UG/L	MW96T	04/21/1999	ND	25.0000
Lead	UG/L	MW96T	07/20/1999	ND	5.0000
Lead	UG/L	MW96T	10/19/1999	ND	5.0000
Lead	UG/L	MW96T	01/19/2000	ND	25.0000
Lead	UG/L	MW96T	04/19/2000	ND	25.0000
Lead	UG/L	MW96T	07/19/2000	ND	25.0000
Lead	UG/L	MW96T	10/18/2000	ND	25.0000
Lead	UG/L	MW96T	01/17/2001	ND	25.0000
Lead	UG/L	MW96T	04/19/2001	ND	25.0000
Lead	UG/L	MW96T	07/18/2001	ND	25.0000
Lead	UG/L	MW96T	10/18/2001	ND	25.0000
Lead	UG/L	MW96T	01/16/2002	ND	25.0000
Lead	UG/L	MW96T	04/18/2002	ND	25.0000
Lead	UG/L	MW96T	07/18/2002	ND	25.0000
Lead	UG/L	MW96T	10/24/2002	ND	25.0000
Lead	UG/L	MW96T	01/21/2003	ND	25.0000
Lead	UG/L	MW96T	04/21/2003	ND	25.0000
Lead	UG/L	MW96T	07/16/2003	ND	25.0000
Lead	UG/L	MW96T	10/23/2003	ND	25.0000
Lead	UG/L	MW96T	01/20/2004	ND	15.0000
Lead	UG/L	MW96T	01/27/2005	ND	15.0000
Lead	UG/L	MW96T	01/17/2006	ND	15.0000
Lead	UG/L	MW96T	02/08/2007	ND	15.0000
Lead	UG/L	MW96T	02/22/2008	ND	15.0000
Lead	UG/L	MW96T	02/06/2009	ND	15.0000
Lead	UG/L	MW96T	02/09/2010	ND	10.0000
Lead	UG/L	MW96T	02/17/2011	ND	15.0000
Lead	UG/L	MW96T	03/09/2012	ND	15.0000
Lead	UG/L	MW96T	02/19/2013	ND	15.0000
Lead	UG/L	MW96T	02/07/2014	ND	15.0000
Lead	UG/L	MW96T	02/04/2015	ND	15.0000
Lead	UG/L	MW96T	02/10/2016	ND	15.0000
Lead	UG/L	MW96T	02/01/2017	ND	15.0000
Lead	UG/L	MW97T	02/10/1993	ND	25.0000
Lead	UG/L	MW97T	04/14/1993	ND	25.0000
Lead	UG/L	MW97T	08/10/1993	ND	25.0000
Lead	UG/L	MW97T	10/13/1993	ND	25.0000
Lead	UG/L	MW97T	02/16/1994	ND	25.0000
Lead	UG/L	MW97T	05/09/1994	ND	25.0000
Lead	UG/L	MW97T	07/20/1994	ND	25.0000
Lead	UG/L	MW97T	10/24/1994	ND	25.0000
Lead	UG/L	MW97T	01/17/1995	ND	25.0000
Lead	UG/L	MW97T	04/07/1995	ND	25.0000

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	
Lead	UG/L	MW97T	07/25/1995	ND	25.0000	
Lead	UG/L	MW98TR	07/25/1995	ND	25.0000	
Lead	UG/L	MW98TR	10/25/1995	ND	25.0000	
Lead	UG/L	MW98TR	01/17/1996	ND	25.0000	
Lead	UG/L	MW98TR	04/23/1996	ND	25.0000	
Lead	UG/L	MW98TR	07/18/1996	ND	25.0000	
Lead	UG/L	MW98TR	10/22/1996	ND	25.0000	
Lead	UG/L	MW98TR	01/21/1997	ND	25.0000	
Lead	UG/L	MW98TR	04/22/1997	ND	25.0000	
Lead	UG/L	MW98TR	07/15/1997	ND	25.0000	
Lead	UG/L	MW98TR	10/21/1997	ND	25.0000	
Lead	UG/L	MW98TR	01/20/1998	ND	25.0000	
Lead	UG/L	MW98TR	07/16/1998	ND	25.0000	
Lead	UG/L	MW98TR	10/20/1998	ND	25.0000	
Lead	UG/L	MW98TR	01/20/1999	ND	25.0000	
Lead	UG/L	MW98TR	04/21/1999	ND	25.0000	
Lead	UG/L	MW98TR	07/20/1999	ND	5.0000	
Lead	UG/L	MW98TR	10/19/1999	ND	5.0000	
Lead	UG/L	MW98TR	01/19/2000	ND	25.0000	
Lead	UG/L	MW98TR	04/19/2000	ND	25.0000	
Lead	UG/L	MW98TR	07/19/2000	ND	25.0000	
Lead	UG/L	MW98TR	10/18/2000	ND	25.0000	
Lead	UG/L	MW98TR	01/17/2001	ND	25.0000	
Lead	UG/L	MW98TR	04/19/2001	ND	25.0000	
Lead	UG/L	MW98TR	07/18/2001	ND	25.0000	
Lead	UG/L	MW98TR	10/18/2001	ND	25.0000	
Lead	UG/L	MW98TR	01/16/2002	ND	25.0000	
Lead	UG/L	MW98TR	04/18/2002	ND	25.0000	
Lead	UG/L	MW98TR	07/18/2002	ND	25.0000	
Lead	UG/L	MW98TR	10/24/2002	ND	25.0000	
Lead	UG/L	MW98TR	01/21/2003	ND	25.0000	
Lead	UG/L	MW98TR	04/21/2003	ND	25.0000	
Lead	UG/L	MW98TR	07/16/2003	ND	25.0000	
Lead	UG/L	MW98TR	10/23/2003	ND	25.0000	
Lead	UG/L	MW98TR	01/20/2004	ND	15.0000	
Lead	UG/L	MW98TR	01/27/2005	ND	15.0000	
Lead	UG/L	MW98TR	01/17/2006	ND	15.0000	
Lead	UG/L	MW98TR	02/08/2007	ND	15.0000	
Lead	UG/L	MW98TR	02/22/2008	ND	15.0000	
Lead	UG/L	MW98TR	02/06/2009	ND	15.0000	
Lead	UG/L	MW98TR	02/09/2010	ND	10.0000	
Lead	UG/L	MW98TR	02/17/2011	ND	15.0000	
Lead	UG/L	MW98TR	03/09/2012	ND	15.0000	
Lead	UG/L	MW98TR	02/15/2013	ND	15.0000	
Lead	UG/L	MW98TR	02/06/2014	ND	15.0000	
Lead	UG/L	MW98TR	02/04/2015	ND	15.0000	
Lead	UG/L	MW98TR	02/10/2016	ND	15.0000	
Lead	UG/L	MW98TR	02/01/2017	ND	15.0000	
Lead	UG/L	PSDL17A	01/05/1993	ND	25.0000	
Lead	UG/L	PSDL17A	03/09/1993	ND	25.0000	
Lead	UG/L	PSDL17A	05/06/1993	ND	25.0000	
Lead	UG/L	PSDL17A	06/09/1993	ND	25.0000	
Lead	UG/L	PSDL17A	07/08/1993	ND	25.0000	
Lead	UG/L	PSDL17A	09/02/1993	ND	25.0000	
Lead	UG/L	PSDL17A	11/03/1993	ND	25.0000	
Lead	UG/L	PSDL17A	12/08/1993	ND	25.0000	
Lead	UG/L	PSDL17A	02/15/1994	ND	25.0000	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result
Lead	UG/L	PSDL17A	05/09/1994	ND	25.0000
Lead	UG/L	PSDL17A	07/06/1994	ND	25.0000
Lead	UG/L	PSDL17A	10/20/1994	ND	25.0000
Lead	UG/L	PSDL17A	01/09/1995	ND	25.0000
Lead	UG/L	PSDL17A	04/07/1995	ND	25.0000
Lead	UG/L	PSDL17A	07/17/1995	ND	25.0000
Lead	UG/L	PSDL17A	10/11/1995	ND	25.0000
Lead	UG/L	PSDL17A	01/16/1996	ND	25.0000
Lead	UG/L	PSDL17A	04/10/1996	ND	25.0000
Lead	UG/L	PSDL17A	07/18/1996	ND	25.0000
Lead	UG/L	PSDL17A	10/22/1996	ND	25.0000
Lead	UG/L	PSDL17A	01/20/1997	ND	25.0000
Lead	UG/L	PSDL17A	04/22/1997	ND	25.0000
Lead	UG/L	PSDL17A	07/16/1997	ND	25.0000
Lead	UG/L	PSDL17A	10/16/1997	ND	25.0000
Lead	UG/L	PSDL17A	01/20/1998	ND	25.0000
Lead	UG/L	PSDL17A	04/22/1998	ND	25.0000
Lead	UG/L	PSDL17A	07/16/1998	ND	25.0000
Lead	UG/L	PSDL17A	10/19/1998	ND	25.0000
Lead	UG/L	PSDL17A	01/19/1999	ND	25.0000
Lead	UG/L	PSDL17A	04/20/1999	ND	25.0000
Lead	UG/L	PSDL17A	07/20/1999	ND	5.0000
Lead	UG/L	PSDL17A	10/18/1999	ND	5.0000
Lead	UG/L	PSDL17A	01/18/2000	ND	25.0000
Lead	UG/L	PSDL17A	04/18/2000	ND	25.0000
Lead	UG/L	PSDL17A	07/18/2000	ND	25.0000
Lead	UG/L	PSDL17A	10/17/2000	ND	25.0000
Lead	UG/L	PSDL17A	01/16/2001	ND	25.0000
Lead	UG/L	PSDL17A	04/18/2001	ND	25.0000
Lead	UG/L	PSDL17A	07/17/2001	ND	25.0000
Lead	UG/L	PSDL17A	10/17/2001	ND	25.0000
Lead	UG/L	PSDL17A	01/16/2002	ND	25.0000
Lead	UG/L	PSDL17A	04/16/2002	ND	25.0000
Lead	UG/L	PSDL17A	07/17/2002	ND	25.0000
Lead	UG/L	PSDL17A	10/22/2002	ND	25.0000
Lead	UG/L	PSDL17A	01/20/2003	ND	25.0000
Lead	UG/L	PSDL17A	04/21/2003	ND	25.0000
Lead	UG/L	PSDL17A	07/15/2003	ND	25.0000
Lead	UG/L	PSDL17A	10/23/2003	ND	25.0000
Lead	UG/L	PSDL17A	01/19/2004	ND	15.0000
Lead	UG/L	PSDL17A	01/26/2005	ND	15.0000
Lead	UG/L	PSDL17A	01/13/2006	ND	15.0000
Lead	UG/L	PSDL17A	02/07/2007	ND	15.0000
Lead	UG/L	PSDL17A	02/21/2008	ND	15.0000
Lead	UG/L	PSDL17A	02/05/2009	ND	15.0000
Lead	UG/L	PSDL17A	02/09/2010	ND	10.0000
Lead	UG/L	PSDL17A	02/15/2011	ND	15.0000
Lead	UG/L	PSDL17A	03/08/2012	ND	15.0000
Lead	UG/L	PSDL17A	02/14/2013	ND	15.0000
Lead	UG/L	PSDL17A	02/06/2014	ND	15.0000
Lead	UG/L	PSDL17A	02/04/2015	ND	15.0000
Lead	UG/L	PSDL17A	02/05/2016	ND	15.0000
Lead	UG/L	PSDL17A	01/31/2017	ND	15.0000
Lead	UG/L	UBC25	02/09/1993	ND	25.0000
Lead	UG/L	UBC25	04/14/1993	ND	25.0000
Lead	UG/L	UBC25	08/05/1993	ND	25.0000
Lead	UG/L	UBC25	10/12/1993	ND	25.0000

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result
Lead	UG/L	UBC25	02/14/1994	ND	25.0000
Lead	UG/L	UBC25	05/09/1994	ND	25.0000
Lead	UG/L	UBC25	10/20/1994	ND	25.0000
Lead	UG/L	UBC25	04/20/1995	ND	25.0000
Lead	UG/L	UBC25	10/25/1995	ND	25.0000
Lead	UG/L	UBC25	04/23/1996	ND	25.0000
Lead	UG/L	UBC25	10/22/1996	ND	25.0000
Lead	UG/L	UBC25	04/22/1997	ND	25.0000
Lead	UG/L	UBC25	10/21/1997	ND	25.0000
Lead	UG/L	UBC25	04/21/1998	ND	25.0000
Lead	UG/L	UBC25	10/20/1998	ND	25.0000
Lead	UG/L	UBC25	04/21/1999	ND	25.0000
Lead	UG/L	UBC25	10/19/1999	ND	5.0000
Lead	UG/L	UBC25	04/19/2000	ND	25.0000
Lead	UG/L	UBC25	07/19/2000	ND	25.0000
Lead	UG/L	UBC25	10/18/2000	ND	25.0000
Lead	UG/L	UBC25	04/23/2001	ND	25.0000
Lead	UG/L	UBC25	10/22/2001	ND	25.0000
Lead	UG/L	UBC25	04/22/2002	ND	25.0000
Lead	UG/L	UBC25	10/24/2002	ND	25.0000
Lead	UG/L	UBC25	04/21/2003	ND	25.0000
Lead	UG/L	UBC25	10/23/2003	ND	25.0000
Lead	UG/L	UBC25	07/20/2004	ND	15.0000
Lead	UG/L	UBC25	07/28/2005	ND	15.0000
Lead	UG/L	UBC25	08/09/2006	ND	15.0000
Lead	UG/L	UBC25	08/10/2007	ND	15.0000
Lead	UG/L	UBC25	08/08/2008	ND	15.0000
Lead	UG/L	UBC25	07/31/2009	ND	15.0000
Lead	UG/L	UBC25	08/06/2010	ND	15.0000
Lead	UG/L	UBC25	08/08/2011	ND	15.0000
Lead	UG/L	UBC25	08/13/2012	ND	15.0000
Lead	UG/L	UBC25	08/08/2013	ND	15.0000
Lead	UG/L	UBC25	07/30/2014	ND	15.0000
Lead	UG/L	UBC25	08/17/2015	ND	15.0000
Lead	UG/L	UBC25	08/19/2016	ND	15.0000
Lead	UG/L	UBC25	07/27/2017	ND	10.0000
Lead	UG/L	UBC27	02/09/1993	ND	25.0000
Lead	UG/L	UBC27	04/14/1993	ND	25.0000
Lead	UG/L	UBC27	08/11/1993	ND	25.0000
Lead	UG/L	UBC27	10/13/1993	ND	25.0000
Lead	UG/L	UBC27	02/14/1994	ND	25.0000
Lead	UG/L	UBC27	05/11/1994	ND	25.0000
Lead	UG/L	UBC27	10/20/1994	ND	25.0000
Lead	UG/L	UBC27	04/20/1995	ND	25.0000
Lead	UG/L	UBC27	10/25/1995	ND	25.0000
Lead	UG/L	UBC27	04/23/1996	ND	25.0000
Lead	UG/L	UBC27	10/22/1996	ND	25.0000
Lead	UG/L	UBC27	04/22/1997	ND	25.0000
Lead	UG/L	UBC27	10/23/1997	ND	25.0000
Lead	UG/L	UBC27	04/21/1998	ND	25.0000
Lead	UG/L	UBC27	10/20/1998	ND	25.0000
Lead	UG/L	UBC27	04/21/1999	ND	25.0000
Lead	UG/L	UBC27	10/19/1999	ND	5.0000
Lead	UG/L	UBC27	04/19/2000	ND	25.0000
Lead	UG/L	UBC27	07/18/2000	ND	25.0000
Lead	UG/L	UBC27	10/18/2000	ND	25.0000
Lead	UG/L	UBC27	04/23/2001	ND	25.0000

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result
Lead	UG/L	UBC27	10/22/2001	ND	25.0000
Lead	UG/L	UBC27	04/22/2002	ND	25.0000
Lead	UG/L	UBC27	10/24/2002	ND	25.0000
Lead	UG/L	UBC27	04/21/2003	ND	25.0000
Lead	UG/L	UBC27	10/23/2003	ND	25.0000
Lead	UG/L	UBC27	07/20/2004	ND	15.0000
Lead	UG/L	UBC27	07/28/2005	ND	15.0000
Lead	UG/L	UBC27	08/09/2006	ND	15.0000
Lead	UG/L	UBC27	08/10/2007	ND	15.0000
Lead	UG/L	UBC27	08/08/2008	ND	15.0000
Lead	UG/L	UBC27	07/31/2009	ND	15.0000
Lead	UG/L	UBC27	08/06/2010	ND	15.0000
Lead	UG/L	UBC27	08/08/2011	ND	15.0000
Lead	UG/L	UBC27	08/13/2012	ND	15.0000
Lead	UG/L	UBC27	08/08/2013	ND	15.0000
Lead	UG/L	UBC27	07/30/2014	ND	15.0000
Lead	UG/L	UBC27	08/17/2015	ND	15.0000
Lead	UG/L	UBC27	08/19/2016	ND	15.0000
Lead	UG/L	UBC27	07/27/2017	ND	10.0000
Lead	UG/L	UBC28AR	10/25/1995	ND	25.0000
Lead	UG/L	UBC28AR	04/18/1996	ND	25.0000
Lead	UG/L	UBC28AR	10/17/1996	ND	25.0000
Lead	UG/L	UBC28AR	04/22/1997	ND	25.0000
Lead	UG/L	UBC28AR	10/16/1997	ND	25.0000
Lead	UG/L	UBC28AR	04/21/1998	ND	25.0000
Lead	UG/L	UBC28AR	10/19/1998	ND	25.0000
Lead	UG/L	UBC28AR	04/21/1999	ND	25.0000
Lead	UG/L	UBC28AR	10/19/1999	ND	5.0000
Lead	UG/L	UBC28AR	04/19/2000	ND	25.0000
Lead	UG/L	UBC28AR	07/19/2000	ND	25.0000
Lead	UG/L	UBC28AR	10/18/2000	ND	25.0000
Lead	UG/L	UBC28AR	04/23/2001	ND	25.0000
Lead	UG/L	UBC28AR	10/22/2001	ND	25.0000
Lead	UG/L	UBC28AR	04/22/2002	ND	25.0000
Lead	UG/L	UBC28AR	10/24/2002	ND	25.0000
Lead	UG/L	UBC28AR	04/21/2003	ND	25.0000
Lead	UG/L	UBC28AR	10/23/2003	ND	25.0000
Lead	UG/L	UBC28AR	07/20/2004	ND	15.0000
Lead	UG/L	UBC28AR	07/28/2005	ND	15.0000
Lead	UG/L	UBC28AR	08/09/2006	ND	15.0000
Lead	UG/L	UBC28AR	08/10/2007	ND	15.0000
Lead	UG/L	UBC28AR	08/08/2008	ND	15.0000
Lead	UG/L	UBC28AR	07/31/2009	ND	15.0000
Lead	UG/L	UBC28AR	08/06/2010	ND	15.0000
Lead	UG/L	UBC28AR	08/05/2011	ND	15.0000
Lead	UG/L	UBC28AR	08/10/2012	ND	15.0000
Lead	UG/L	UBC28AR	08/08/2013	ND	15.0000
Lead	UG/L	UBC28AR	07/30/2014	ND	15.0000
Lead	UG/L	UBC28AR	08/14/2015	ND	15.0000
Lead	UG/L	UBC28AR	08/10/2016	ND	15.0000
Lead	UG/L	UBC28AR	07/27/2017	ND	10.0000
Mercury	UG/L	MW1	01/11/1993	ND	0.2000
Mercury	UG/L	MW1	03/04/1993	ND	0.2000
Mercury	UG/L	MW1	05/03/1993	ND	0.2000
Mercury	UG/L	MW1	06/03/1993	ND	0.2000
Mercury	UG/L	MW1	07/06/1993	ND	0.2000
Mercury	UG/L	MW1	09/07/1993	ND	0.2000

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result
Mercury	UG/L	MW1	11/04/1993	ND	0.2000
Mercury	UG/L	MW1	12/06/1993	ND	0.2000
Mercury	UG/L	MW1	02/14/1994	ND	0.2000
Mercury	UG/L	MW1	05/11/1994	ND	0.2000
Mercury	UG/L	MW1	07/19/1994	ND	0.2000
Mercury	UG/L	MW1	10/19/1994	ND	0.2000
Mercury	UG/L	MW1	01/16/1995	ND	0.2000
Mercury	UG/L	MW1	04/19/1995	ND	0.2000
Mercury	UG/L	MW1	07/24/1995	ND	0.2000
Mercury	UG/L	MW1	10/24/1995	ND	0.2000
Mercury	UG/L	MW1	01/22/1996	ND	0.2000
Mercury	UG/L	MW1	04/22/1996	ND	0.2000
Mercury	UG/L	MW1	07/22/1996	ND	0.2000
Mercury	UG/L	MW1	10/21/1996	ND	0.2000
Mercury	UG/L	MW1	01/20/1997	ND	0.2000
Mercury	UG/L	MW1	04/21/1997	ND	0.2000
Mercury	UG/L	MW1	07/15/1997	ND	0.2000
Mercury	UG/L	MW1	10/16/1997	ND	0.2000
Mercury	UG/L	MW1	01/19/1998	ND	0.2000
Mercury	UG/L	MW1	04/20/1998	ND	0.2000
Mercury	UG/L	MW1	07/15/1998	ND	0.2000
Mercury	UG/L	MW1	10/19/1998	ND	0.2000
Mercury	UG/L	MW1	01/18/1999	ND	0.2000
Mercury	UG/L	MW1	04/20/1999	ND	0.2000
Mercury	UG/L	MW1	07/19/1999	ND	0.2000
Mercury	UG/L	MW1	10/18/1999	ND	0.2000
Mercury	UG/L	MW1	01/17/2000	ND	0.2000
Mercury	UG/L	MW1	04/18/2000	ND	0.2000
Mercury	UG/L	MW1	07/17/2000	ND	0.2000
Mercury	UG/L	MW1	10/17/2000	ND	0.2000
Mercury	UG/L	MW1	01/16/2001	ND	0.2000
Mercury	UG/L	MW1	04/18/2001	ND	0.2000
Mercury	UG/L	MW1	07/16/2001	ND	0.2000
Mercury	UG/L	MW1	10/17/2001	ND	0.2000
Mercury	UG/L	MW1	01/15/2002	ND	0.2000
Mercury	UG/L	MW1	04/16/2002	ND	0.2000
Mercury	UG/L	MW1	07/16/2002	ND	0.2000
Mercury	UG/L	MW1	10/22/2002	ND	0.2000
Mercury	UG/L	MW1	01/20/2003	ND	0.2000
Mercury	UG/L	MW1	04/16/2003	ND	0.2000
Mercury	UG/L	MW1	07/14/2003	ND	0.2000
Mercury	UG/L	MW1	10/21/2003	ND	0.2000
Mercury	UG/L	MW1	01/19/2004	ND	0.2000
Mercury	UG/L	MW1	01/26/2005	ND	0.2000
Mercury	UG/L	MW1	01/12/2006	ND	0.2000
Mercury	UG/L	MW1	02/07/2007	ND	0.2000
Mercury	UG/L	MW126T	11/08/1995	ND	0.2000
Mercury	UG/L	MW126T	02/29/1996	ND	0.2000
Mercury	UG/L	MW126T	04/23/1996	ND	0.2000
Mercury	UG/L	MW126T	07/22/1996	ND	0.2000
Mercury	UG/L	MW126T	10/21/1996	ND	0.2000
Mercury	UG/L	MW126T	01/20/1997	ND	0.2000
Mercury	UG/L	MW126T	04/23/1997	ND	0.2000
Mercury	UG/L	MW126T	07/15/1997	ND	0.2000
Mercury	UG/L	MW126T	10/16/1997	ND	0.2000
Mercury	UG/L	MW126T	01/19/1998	ND	0.2000
Mercury	UG/L	MW126T	04/16/1998	ND	0.2000

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result
Mercury	UG/L	MW126T	07/16/1998	ND	0.2000
Mercury	UG/L	MW126T	10/15/1998	ND	0.2000
Mercury	UG/L	MW126T	01/18/1999	ND	0.2000
Mercury	UG/L	MW126T	04/21/1999	ND	0.2000
Mercury	UG/L	MW126T	07/19/1999	ND	0.2000
Mercury	UG/L	MW126T	10/20/1999	ND	0.2000
Mercury	UG/L	MW126T	01/17/2000	ND	0.2000
Mercury	UG/L	MW126T	04/19/2000	ND	0.2000
Mercury	UG/L	MW126T	07/17/2000	ND	0.2000
Mercury	UG/L	MW126T	10/18/2000	ND	0.2000
Mercury	UG/L	MW126T	01/18/2001	ND	0.2000
Mercury	UG/L	MW126T	04/19/2001	ND	0.2000
Mercury	UG/L	MW126T	07/16/2001	ND	0.2000
Mercury	UG/L	MW126T	10/18/2001	ND	0.2000
Mercury	UG/L	MW126T	01/17/2002	ND	0.2000
Mercury	UG/L	MW126T	04/18/2002	ND	0.2000
Mercury	UG/L	MW126T	07/17/2002	ND	0.2000
Mercury	UG/L	MW126T	10/24/2002	ND	0.2000
Mercury	UG/L	MW126T	01/20/2003	ND	0.2000
Mercury	UG/L	MW126T	04/21/2003	ND	0.2000
Mercury	UG/L	MW126T	07/16/2003	ND	0.2000
Mercury	UG/L	MW126T	10/23/2003	ND	0.2000
Mercury	UG/L	MW126T	01/19/2004	ND	0.2000
Mercury	UG/L	MW126T	01/26/2005	ND	0.2000
Mercury	UG/L	MW126T	01/16/2006	ND	0.2000
Mercury	UG/L	MW126T	02/09/2007	ND	0.2000
Mercury	UG/L	MW126T	02/22/2008	ND	0.2000
Mercury	UG/L	MW126T	02/06/2009	ND	0.2000
Mercury	UG/L	MW126T	02/10/2010	ND	0.2000
Mercury	UG/L	MW126T	02/17/2011	ND	0.2000
Mercury	UG/L	MW126T	03/09/2012	ND	0.2000
Mercury	UG/L	MW126T	02/15/2013	ND	0.2000
Mercury	UG/L	MW126T	02/06/2014	ND	0.2000
Mercury	UG/L	MW126T	02/05/2015	ND	0.2000
Mercury	UG/L	MW126T	02/10/2016	ND	0.2000
Mercury	UG/L	MW126T	02/02/2017	ND	0.2000
Mercury	UG/L	MW92SR	07/25/1995	ND	0.2000
Mercury	UG/L	MW92SR	10/25/1995	ND	0.2000
Mercury	UG/L	MW92SR	01/17/1996	ND	0.2000
Mercury	UG/L	MW92SR	04/23/1996	ND	0.2000
Mercury	UG/L	MW92SR	07/18/1996	ND	0.2000
Mercury	UG/L	MW92SR	10/22/1996	ND	0.2000
Mercury	UG/L	MW92SR	01/20/1997	ND	0.2000
Mercury	UG/L	MW92SR	04/22/1997	ND	0.2000
Mercury	UG/L	MW92SR	07/16/1997	ND	0.2000
Mercury	UG/L	MW92SR	10/21/1997	ND	0.2000
Mercury	UG/L	MW92SR	01/21/1998	ND	0.2000
Mercury	UG/L	MW92SR	04/21/1998	ND	0.2000
Mercury	UG/L	MW92SR	07/16/1998	ND	0.2000
Mercury	UG/L	MW92SR	10/20/1998	ND	0.2000
Mercury	UG/L	MW92SR	01/19/1999	ND	0.2000
Mercury	UG/L	MW92SR	04/21/1999	ND	0.2000
Mercury	UG/L	MW92SR	07/20/1999	ND	0.2000
Mercury	UG/L	MW92SR	10/19/1999	ND	0.2000
Mercury	UG/L	MW92SR	01/18/2000	ND	0.2000
Mercury	UG/L	MW92SR	04/19/2000	ND	0.2000
Mercury	UG/L	MW92SR	07/18/2000	ND	0.2000

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result
Mercury	UG/L	MW92SR	10/18/2000	ND	0.2000
Mercury	UG/L	MW92SR	01/17/2001	ND	0.2000
Mercury	UG/L	MW92SR	04/23/2001	ND	0.2000
Mercury	UG/L	MW92SR	07/17/2001	ND	0.2000
Mercury	UG/L	MW92SR	10/22/2001	ND	0.2000
Mercury	UG/L	MW92SR	01/16/2002	ND	0.2000
Mercury	UG/L	MW92SR	04/22/2002	ND	0.2000
Mercury	UG/L	MW92SR	07/17/2002	ND	0.2000
Mercury	UG/L	MW92SR	10/24/2002	ND	0.2000
Mercury	UG/L	MW92SR	01/20/2003	ND	0.2000
Mercury	UG/L	MW92SR	04/21/2003	ND	0.2000
Mercury	UG/L	MW92SR	07/16/2003	ND	0.2000
Mercury	UG/L	MW92SR	10/23/2003	ND	0.2000
Mercury	UG/L	MW92SR	01/20/2004	ND	0.2000
Mercury	UG/L	MW92SR	01/27/2005	ND	0.2000
Mercury	UG/L	MW92SR	01/13/2006	ND	0.2000
Mercury	UG/L	MW92SR	02/08/2007	ND	0.2000
Mercury	UG/L	MW92SR	02/21/2008	ND	0.2000
Mercury	UG/L	MW92SR	02/04/2009	ND	0.2000
Mercury	UG/L	MW92SR	02/08/2010	ND	0.2000
Mercury	UG/L	MW92SR	02/15/2011	ND	0.2000
Mercury	UG/L	MW92SR	03/08/2012	ND	0.2000
Mercury	UG/L	MW92SR	02/14/2013	ND	0.2000
Mercury	UG/L	MW92SR	02/06/2014	ND	0.2000
Mercury	UG/L	MW92SR	02/04/2015	ND	0.2000
Mercury	UG/L	MW92SR	01/29/2016	ND	0.2000
Mercury	UG/L	MW92SR	01/27/2017	ND	0.2000
Mercury	UG/L	MW93PR	07/25/1995	ND	0.2000
Mercury	UG/L	MW93PR	10/25/1995	ND	0.2000
Mercury	UG/L	MW93PR	01/17/1996	ND	0.2000
Mercury	UG/L	MW93PR	04/23/1996	ND	0.2000
Mercury	UG/L	MW93PR	07/18/1996	ND	0.2000
Mercury	UG/L	MW93PR	10/22/1996	ND	0.2000
Mercury	UG/L	MW93PR	01/20/1997	ND	0.2000
Mercury	UG/L	MW93PR	04/22/1997	ND	0.2000
Mercury	UG/L	MW93PR	07/16/1997	ND	0.2000
Mercury	UG/L	MW93PR	10/23/1997	ND	0.2000
Mercury	UG/L	MW93PR	01/21/1998	ND	0.2000
Mercury	UG/L	MW93PR	04/21/1998	ND	0.2000
Mercury	UG/L	MW93PR	07/16/1998	ND	0.2000
Mercury	UG/L	MW93PR	10/20/1998	ND	0.2000
Mercury	UG/L	MW93PR	01/19/1999	ND	0.2000
Mercury	UG/L	MW93PR	04/21/1999	ND	0.2000
Mercury	UG/L	MW93PR	07/20/1999	ND	0.2000
Mercury	UG/L	MW93PR	10/19/1999	ND	0.2000
Mercury	UG/L	MW93PR	01/18/2000	ND	0.2000
Mercury	UG/L	MW93PR	04/19/2000	ND	0.2000
Mercury	UG/L	MW93PR	07/18/2000	ND	0.2000
Mercury	UG/L	MW93PR	10/18/2000	ND	0.2000
Mercury	UG/L	MW93PR	01/17/2001	ND	0.2000
Mercury	UG/L	MW93PR	04/23/2001	ND	0.2000
Mercury	UG/L	MW93PR	07/17/2001	ND	0.2000
Mercury	UG/L	MW93PR	10/22/2001	ND	0.2000
Mercury	UG/L	MW93PR	01/16/2002	ND	0.2000
Mercury	UG/L	MW93PR	04/22/2002	ND	0.2000
Mercury	UG/L	MW93PR	07/17/2002	ND	0.2000
Mercury	UG/L	MW93PR	10/24/2002	ND	0.2000

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result
Mercury	UG/L	MW93PR	01/20/2003	ND	0.2000
Mercury	UG/L	MW93PR	04/21/2003	ND	0.2000
Mercury	UG/L	MW93PR	07/16/2003	ND	0.2000
Mercury	UG/L	MW93PR	10/23/2003	ND	0.2000
Mercury	UG/L	MW93PR	04/20/2004	ND	0.2000
Mercury	UG/L	MW93PR	04/29/2005	ND	0.2000
Mercury	UG/L	MW93PR	05/11/2006	ND	0.2000
Mercury	UG/L	MW93PR	05/02/2007	ND	0.2000
Mercury	UG/L	MW93PR	04/30/2008	ND	0.2000
Mercury	UG/L	MW93PR	05/06/2009	ND	0.2000
Mercury	UG/L	MW93PR	05/12/2010	ND	0.2000
Mercury	UG/L	MW93PR	05/12/2011	ND	0.2000
Mercury	UG/L	MW93PR	05/11/2012	ND	0.2000
Mercury	UG/L	MW93PR	05/09/2013	ND	0.2000
Mercury	UG/L	MW93PR	04/30/2014	ND	0.2000
Mercury	UG/L	MW93PR	05/06/2015	ND	0.2000
Mercury	UG/L	MW93PR	05/03/2016	ND	0.2000
Mercury	UG/L	MW93PR	04/27/2017	ND	0.2000
Mercury	UG/L	MW94PR	07/26/1995	ND	0.2000
Mercury	UG/L	MW94PR	10/25/1995	ND	0.2000
Mercury	UG/L	MW94PR	01/17/1996	ND	0.2000
Mercury	UG/L	MW94PR	04/23/1996	ND	0.2000
Mercury	UG/L	MW94PR	07/18/1996	ND	0.2000
Mercury	UG/L	MW94PR	10/22/1996	ND	0.2000
Mercury	UG/L	MW94PR	01/20/1997	ND	0.2000
Mercury	UG/L	MW94PR	04/23/1997	ND	0.2000
Mercury	UG/L	MW94PR	07/15/1997	ND	0.2000
Mercury	UG/L	MW94PR	10/21/1997	ND	0.2000
Mercury	UG/L	MW94PR	01/15/1998	ND	0.2000
Mercury	UG/L	MW94PR	04/22/1998	ND	0.2000
Mercury	UG/L	MW94PR	07/16/1998	ND	0.2000
Mercury	UG/L	MW94PR	10/21/1998	ND	0.2000
Mercury	UG/L	MW94PR	01/18/1999	ND	0.2000
Mercury	UG/L	MW94PR	04/21/1999	ND	0.2000
Mercury	UG/L	MW94PR	07/19/1999	ND	0.2000
Mercury	UG/L	MW94PR	10/19/1999	ND	0.2000
Mercury	UG/L	MW94PR	01/17/2000	ND	0.2000
Mercury	UG/L	MW94PR	04/19/2000	ND	0.2000
Mercury	UG/L	MW94PR	07/17/2000	ND	0.2000
Mercury	UG/L	MW94PR	10/18/2000	ND	0.2000
Mercury	UG/L	MW94PR	01/18/2001	ND	0.2000
Mercury	UG/L	MW94PR	04/19/2001	ND	0.2000
Mercury	UG/L	MW94PR	07/16/2001	ND	0.2000
Mercury	UG/L	MW94PR	10/18/2001	ND	0.2000
Mercury	UG/L	MW94PR	01/17/2002	ND	0.2000
Mercury	UG/L	MW94PR	04/18/2002	ND	0.2000
Mercury	UG/L	MW94PR	07/17/2002	ND	0.2000
Mercury	UG/L	MW94PR	10/24/2002	ND	0.2000
Mercury	UG/L	MW94PR	01/20/2003	ND	0.2000
Mercury	UG/L	MW94PR	04/21/2003	ND	0.2000
Mercury	UG/L	MW94PR	07/16/2003	ND	0.2000
Mercury	UG/L	MW94PR	10/23/2003	ND	0.2000
Mercury	UG/L	MW94PR	04/20/2004	ND	0.2000
Mercury	UG/L	MW94PR	04/29/2005	ND	0.2000
Mercury	UG/L	MW94PR	05/11/2006	ND	0.2000
Mercury	UG/L	MW94PR	05/03/2007	ND	0.2000
Mercury	UG/L	MW94PR	05/01/2008	ND	0.2000

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	
Mercury	UG/L	MW94PR	05/07/2009	ND	0.2000	
Mercury	UG/L	MW94PR	05/14/2010	ND	0.2000	
Mercury	UG/L	MW94PR	05/13/2011	ND	0.2000	
Mercury	UG/L	MW94PR	05/11/2012	ND	0.2000	
Mercury	UG/L	MW94PR	05/09/2013	ND	0.2000	
Mercury	UG/L	MW94PR	04/30/2014	ND	0.2000	
Mercury	UG/L	MW94PR	05/06/2015	ND	0.2000	
Mercury	UG/L	MW94PR	05/03/2016	ND	0.2000	
Mercury	UG/L	MW94PR	04/28/2017	ND	0.2000	
Mercury	UG/L	MW95P	02/10/1993	ND	0.2000	
Mercury	UG/L	MW95P	04/14/1993	ND	0.2000	
Mercury	UG/L	MW95P	08/10/1993	ND	0.2000	
Mercury	UG/L	MW95P	10/13/1993	ND	0.2000	
Mercury	UG/L	MW95P	02/14/1994	ND	0.2000	
Mercury	UG/L	MW95P	05/09/1994	ND	0.2000	
Mercury	UG/L	MW95P	07/20/1994	ND	0.2000	
Mercury	UG/L	MW95P	10/20/1994	ND	0.2000	
Mercury	UG/L	MW95P	01/17/1995	ND	0.2000	
Mercury	UG/L	MW95P	04/24/1995	ND	0.2000	
Mercury	UG/L	MW95P	07/25/1995	ND	0.2000	
Mercury	UG/L	MW95P	10/23/1995	ND	0.2000	
Mercury	UG/L	MW95P	01/23/1996	ND	0.2000	
Mercury	UG/L	MW95P	04/15/1996	ND	0.2000	
Mercury	UG/L	MW95P	07/18/1996	ND	0.2000	
Mercury	UG/L	MW95P	10/22/1996	ND	0.2000	
Mercury	UG/L	MW95P	01/20/1997	ND	0.2000	
Mercury	UG/L	MW95P	04/22/1997	ND	0.2000	
Mercury	UG/L	MW95P	07/16/1997	ND	0.2000	
Mercury	UG/L	MW95P	10/16/1997	ND	0.2000	
Mercury	UG/L	MW95P	01/15/1998	ND	0.2000	
Mercury	UG/L	MW95P	04/21/1998	ND	0.2000	
Mercury	UG/L	MW95P	07/16/1998	ND	0.2000	
Mercury	UG/L	MW95P	10/19/1998	ND	0.2000	
Mercury	UG/L	MW95P	01/19/1999	ND	0.2000	
Mercury	UG/L	MW95P	04/21/1999	ND	0.2000	
Mercury	UG/L	MW95P	07/20/1999	ND	0.2000	
Mercury	UG/L	MW95P	10/19/1999	ND	0.2000	
Mercury	UG/L	MW95P	01/18/2000	ND	0.2000	
Mercury	UG/L	MW95P	04/19/2000	ND	0.2000	
Mercury	UG/L	MW95P	07/18/2000	ND	0.2000	
Mercury	UG/L	MW95P	10/18/2000	ND	0.2000	
Mercury	UG/L	MW95P	01/17/2001	ND	0.2000	
Mercury	UG/L	MW95P	04/23/2001	ND	0.2000	
Mercury	UG/L	MW95P	07/17/2001	ND	0.2000	
Mercury	UG/L	MW95P	10/22/2001	ND	0.2000	
Mercury	UG/L	MW95P	01/16/2002	ND	0.2000	
Mercury	UG/L	MW95P	04/22/2002	ND	0.2000	
Mercury	UG/L	MW95P	07/17/2002	ND	0.2000	
Mercury	UG/L	MW95P	10/24/2002	ND	0.2000	
Mercury	UG/L	MW95P	01/20/2003	ND	0.2000	
Mercury	UG/L	MW95P	04/21/2003	ND	0.2000	
Mercury	UG/L	MW95P	07/16/2003	ND	0.2000	
Mercury	UG/L	MW95P	10/23/2003	ND	0.2000	
Mercury	UG/L	MW95P	04/20/2004	ND	0.2000	
Mercury	UG/L	MW95P	04/29/2005	ND	0.2000	
Mercury	UG/L	MW95P	05/11/2006	ND	0.2000	
Mercury	UG/L	MW95P	05/02/2007	ND	0.2000	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result
Mercury	UG/L	MW95P	04/30/2008	ND	0.2000
Mercury	UG/L	MW95P	05/06/2009	ND	0.2000
Mercury	UG/L	MW95P	05/12/2010	ND	0.2000
Mercury	UG/L	MW95P	05/11/2011	ND	0.2000
Mercury	UG/L	MW95P	05/11/2012	ND	0.2000
Mercury	UG/L	MW95P	05/09/2013	ND	0.2000
Mercury	UG/L	MW95P	04/23/2014	ND	0.2000
Mercury	UG/L	MW95P	04/30/2015	ND	0.2000
Mercury	UG/L	MW95P	04/28/2016	ND	0.2000
Mercury	UG/L	MW95P	04/20/2017	ND	0.2000
Mercury	UG/L	MW96T	04/14/1993	ND	0.2000
Mercury	UG/L	MW96T	08/11/1993	ND	0.2000
Mercury	UG/L	MW96T	10/13/1993	ND	0.2000
Mercury	UG/L	MW96T	01/04/1994	ND	0.2000
Mercury	UG/L	MW96T	04/05/1994	ND	0.2000
Mercury	UG/L	MW96T	07/19/1994	ND	0.2000
Mercury	UG/L	MW96T	10/20/1994	ND	0.2000
Mercury	UG/L	MW96T	01/17/1995	ND	0.2000
Mercury	UG/L	MW96T	04/24/1995	ND	0.2000
Mercury	UG/L	MW96T	07/25/1995		0.2590
Mercury	UG/L	MW96T	10/11/1995	ND	0.2000
Mercury	UG/L	MW96T	01/17/1996	ND	0.2000
Mercury	UG/L	MW96T	04/18/1996	ND	0.2000
Mercury	UG/L	MW96T	07/18/1996	ND	0.2000
Mercury	UG/L	MW96T	10/22/1996	ND	0.2000
Mercury	UG/L	MW96T	01/21/1997	ND	0.2000
Mercury	UG/L	MW96T	04/22/1997	ND	0.2000
Mercury	UG/L	MW96T	07/15/1997	ND	0.2000
Mercury	UG/L	MW96T	10/21/1997	ND	0.2000
Mercury	UG/L	MW96T	01/15/1998		0.2220
Mercury	UG/L	MW96T	04/22/1998	ND	0.2000
Mercury	UG/L	MW96T	07/16/1998	ND	0.2000
Mercury	UG/L	MW96T	10/20/1998	ND	0.2000
Mercury	UG/L	MW96T	01/20/1999	ND	0.2000
Mercury	UG/L	MW96T	04/21/1999	ND	0.2000
Mercury	UG/L	MW96T	07/20/1999	ND	0.2000
Mercury	UG/L	MW96T	10/19/1999	ND	0.2000
Mercury	UG/L	MW96T	01/19/2000	ND	0.2000
Mercury	UG/L	MW96T	04/19/2000	ND	0.2000
Mercury	UG/L	MW96T	07/19/2000	ND	0.2000
Mercury	UG/L	MW96T	10/18/2000	ND	0.2000
Mercury	UG/L	MW96T	01/17/2001	ND	0.2000
Mercury	UG/L	MW96T	04/19/2001	ND	0.2000
Mercury	UG/L	MW96T	07/18/2001	ND	0.2000
Mercury	UG/L	MW96T	10/18/2001	ND	0.2000
Mercury	UG/L	MW96T	01/16/2002	ND	0.2000
Mercury	UG/L	MW96T	04/18/2002	ND	0.2000
Mercury	UG/L	MW96T	07/18/2002	ND	0.2000
Mercury	UG/L	MW96T	10/24/2002	ND	0.2000
Mercury	UG/L	MW96T	01/21/2003	ND	0.2000
Mercury	UG/L	MW96T	04/21/2003	ND	0.2000
Mercury	UG/L	MW96T	07/16/2003	ND	0.2000
Mercury	UG/L	MW96T	10/23/2003	ND	0.2000
Mercury	UG/L	MW96T	01/20/2004		0.2590
Mercury	UG/L	MW96T	01/27/2005	ND	0.2000
Mercury	UG/L	MW96T	01/17/2006	ND	0.2000
Mercury	UG/L	MW96T	02/08/2007	ND	0.2000

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result
Mercury	UG/L	MW96T	02/22/2008	ND	0.2000
Mercury	UG/L	MW96T	02/06/2009	ND	0.2000
Mercury	UG/L	MW96T	02/09/2010	ND	0.2000
Mercury	UG/L	MW96T	02/17/2011	ND	0.2000
Mercury	UG/L	MW96T	03/09/2012	ND	0.2000
Mercury	UG/L	MW96T	02/19/2013	ND	0.2000
Mercury	UG/L	MW96T	02/07/2014	ND	0.2000
Mercury	UG/L	MW96T	02/04/2015	ND	0.2000
Mercury	UG/L	MW96T	02/10/2016	ND	0.2000
Mercury	UG/L	MW96T	02/01/2017	ND	0.2000
Mercury	UG/L	MW97T	02/10/1993	ND	0.2000
Mercury	UG/L	MW97T	04/14/1993	ND	0.2000
Mercury	UG/L	MW97T	08/10/1993	ND	0.2000
Mercury	UG/L	MW97T	10/13/1993	ND	0.2000
Mercury	UG/L	MW97T	02/16/1994	ND	0.2000
Mercury	UG/L	MW97T	05/09/1994	ND	0.2000
Mercury	UG/L	MW97T	07/20/1994	ND	0.2000
Mercury	UG/L	MW97T	10/24/1994	ND	0.2000
Mercury	UG/L	MW97T	01/17/1995	ND	0.2000
Mercury	UG/L	MW97T	04/07/1995	ND	0.2000
Mercury	UG/L	MW97T	07/25/1995	ND	0.2000
Mercury	UG/L	MW98TR	07/25/1995	ND	0.2000
Mercury	UG/L	MW98TR	10/25/1995	ND	0.2000
Mercury	UG/L	MW98TR	01/17/1996	ND	0.2000
Mercury	UG/L	MW98TR	04/23/1996	ND	0.2000
Mercury	UG/L	MW98TR	07/18/1996	ND	0.2000
Mercury	UG/L	MW98TR	10/22/1996	ND	0.2000
Mercury	UG/L	MW98TR	01/21/1997	ND	0.2000
Mercury	UG/L	MW98TR	04/22/1997	ND	0.2000
Mercury	UG/L	MW98TR	07/15/1997	ND	0.2000
Mercury	UG/L	MW98TR	10/21/1997	ND	0.2000
Mercury	UG/L	MW98TR	01/20/1998	ND	0.2000
Mercury	UG/L	MW98TR	07/16/1998	ND	0.2000
Mercury	UG/L	MW98TR	10/20/1998	ND	0.2000
Mercury	UG/L	MW98TR	01/20/1999	ND	0.2000
Mercury	UG/L	MW98TR	04/21/1999	ND	0.2000
Mercury	UG/L	MW98TR	07/20/1999	ND	0.2000
Mercury	UG/L	MW98TR	10/19/1999	ND	0.2000
Mercury	UG/L	MW98TR	01/19/2000	ND	0.2000
Mercury	UG/L	MW98TR	04/19/2000	ND	0.2000
Mercury	UG/L	MW98TR	07/19/2000	ND	0.2000
Mercury	UG/L	MW98TR	10/18/2000	ND	0.2000
Mercury	UG/L	MW98TR	01/17/2001	ND	0.2000
Mercury	UG/L	MW98TR	04/19/2001	ND	0.2000
Mercury	UG/L	MW98TR	07/18/2001	ND	0.2000
Mercury	UG/L	MW98TR	10/18/2001	ND	0.2000
Mercury	UG/L	MW98TR	01/16/2002	ND	0.2000
Mercury	UG/L	MW98TR	04/18/2002	ND	0.2000
Mercury	UG/L	MW98TR	07/18/2002	ND	0.2000
Mercury	UG/L	MW98TR	10/24/2002	ND	0.2000
Mercury	UG/L	MW98TR	01/21/2003	ND	0.2000
Mercury	UG/L	MW98TR	04/21/2003	ND	0.2000
Mercury	UG/L	MW98TR	07/16/2003	ND	0.2000
Mercury	UG/L	MW98TR	10/23/2003	ND	0.2000
Mercury	UG/L	MW98TR	01/20/2004	ND	0.2000
Mercury	UG/L	MW98TR	01/27/2005	ND	0.2000
Mercury	UG/L	MW98TR	01/17/2006	ND	0.2000

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result
Mercury	UG/L	MW98TR	02/08/2007	ND	0.2000
Mercury	UG/L	MW98TR	02/22/2008	ND	0.2000
Mercury	UG/L	MW98TR	02/06/2009	ND	0.2000
Mercury	UG/L	MW98TR	02/09/2010	ND	0.2000
Mercury	UG/L	MW98TR	02/17/2011	ND	0.2000
Mercury	UG/L	MW98TR	03/09/2012	ND	0.2000
Mercury	UG/L	MW98TR	02/15/2013	ND	0.2000
Mercury	UG/L	MW98TR	02/06/2014	ND	0.2000
Mercury	UG/L	MW98TR	02/04/2015	ND	0.2000
Mercury	UG/L	MW98TR	02/10/2016	ND	0.2000
Mercury	UG/L	MW98TR	02/01/2017	ND	0.2000
Mercury	UG/L	PSDL17A	01/05/1993	ND	0.2000
Mercury	UG/L	PSDL17A	03/09/1993	ND	0.2000
Mercury	UG/L	PSDL17A	05/06/1993	ND	0.2000
Mercury	UG/L	PSDL17A	06/09/1993	ND	0.2000
Mercury	UG/L	PSDL17A	07/08/1993	ND	0.2000
Mercury	UG/L	PSDL17A	09/02/1993	ND	0.2000
Mercury	UG/L	PSDL17A	11/03/1993	ND	0.2000
Mercury	UG/L	PSDL17A	12/08/1993	ND	0.2000
Mercury	UG/L	PSDL17A	02/15/1994	ND	0.2000
Mercury	UG/L	PSDL17A	05/09/1994	ND	0.2000
Mercury	UG/L	PSDL17A	07/06/1994	ND	0.2000
Mercury	UG/L	PSDL17A	10/20/1994	ND	0.2000
Mercury	UG/L	PSDL17A	01/09/1995	ND	0.2000
Mercury	UG/L	PSDL17A	04/07/1995	ND	0.2000
Mercury	UG/L	PSDL17A	07/17/1995	ND	0.2000
Mercury	UG/L	PSDL17A	10/11/1995	ND	0.2000
Mercury	UG/L	PSDL17A	01/16/1996	ND	0.2000
Mercury	UG/L	PSDL17A	04/10/1996	ND	0.2000
Mercury	UG/L	PSDL17A	07/18/1996	ND	0.2000
Mercury	UG/L	PSDL17A	10/22/1996	ND	0.2000
Mercury	UG/L	PSDL17A	01/20/1997	ND	0.2000
Mercury	UG/L	PSDL17A	04/22/1997	ND	0.2000
Mercury	UG/L	PSDL17A	07/16/1997	ND	0.2000
Mercury	UG/L	PSDL17A	10/16/1997	ND	0.2000
Mercury	UG/L	PSDL17A	01/20/1998	ND	0.2000
Mercury	UG/L	PSDL17A	04/22/1998	ND	0.2000
Mercury	UG/L	PSDL17A	07/16/1998	ND	0.2000
Mercury	UG/L	PSDL17A	10/19/1998	ND	0.2000
Mercury	UG/L	PSDL17A	01/19/1999	ND	0.2000
Mercury	UG/L	PSDL17A	04/20/1999	ND	0.2000
Mercury	UG/L	PSDL17A	07/20/1999	ND	0.2000
Mercury	UG/L	PSDL17A	10/18/1999	ND	0.2000
Mercury	UG/L	PSDL17A	01/18/2000	ND	0.2000
Mercury	UG/L	PSDL17A	04/18/2000	ND	0.2000
Mercury	UG/L	PSDL17A	07/18/2000	ND	0.2000
Mercury	UG/L	PSDL17A	10/17/2000	ND	0.2000
Mercury	UG/L	PSDL17A	01/16/2001	ND	0.2000
Mercury	UG/L	PSDL17A	04/18/2001	ND	0.2000
Mercury	UG/L	PSDL17A	07/17/2001	ND	0.2000
Mercury	UG/L	PSDL17A	10/17/2001	ND	0.2000
Mercury	UG/L	PSDL17A	01/16/2002	ND	0.2000
Mercury	UG/L	PSDL17A	04/16/2002	ND	0.2000
Mercury	UG/L	PSDL17A	07/17/2002	ND	0.2000
Mercury	UG/L	PSDL17A	10/22/2002	ND	0.2000
Mercury	UG/L	PSDL17A	01/20/2003	ND	0.2000
Mercury	UG/L	PSDL17A	04/21/2003	ND	0.2000

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result
Mercury	UG/L	PSDL17A	07/15/2003	ND	0.2000
Mercury	UG/L	PSDL17A	10/23/2003	ND	0.2000
Mercury	UG/L	PSDL17A	01/19/2004	ND	0.2000
Mercury	UG/L	PSDL17A	01/26/2005	ND	0.2000
Mercury	UG/L	PSDL17A	01/13/2006	ND	0.2000
Mercury	UG/L	PSDL17A	02/07/2007	ND	0.2000
Mercury	UG/L	PSDL17A	02/21/2008	ND	0.2000
Mercury	UG/L	PSDL17A	02/05/2009	ND	0.2000
Mercury	UG/L	PSDL17A	02/09/2010	ND	0.2000
Mercury	UG/L	PSDL17A	02/15/2011	ND	0.2000
Mercury	UG/L	PSDL17A	03/08/2012	ND	0.2000
Mercury	UG/L	PSDL17A	02/14/2013	ND	0.2000
Mercury	UG/L	PSDL17A	02/06/2014	ND	0.2000
Mercury	UG/L	PSDL17A	02/04/2015	ND	0.2000
Mercury	UG/L	PSDL17A	02/05/2016	ND	0.2000
Mercury	UG/L	PSDL17A	01/31/2017	ND	0.2000
Mercury	UG/L	UBC25	02/09/1993	ND	0.2000
Mercury	UG/L	UBC25	04/14/1993	ND	0.2000
Mercury	UG/L	UBC25	08/05/1993	ND	0.2000
Mercury	UG/L	UBC25	10/12/1993	ND	0.2000
Mercury	UG/L	UBC25	02/14/1994	ND	0.2000
Mercury	UG/L	UBC25	05/09/1994	ND	0.2000
Mercury	UG/L	UBC25	10/20/1994	ND	0.2000
Mercury	UG/L	UBC25	04/20/1995	ND	0.2000
Mercury	UG/L	UBC25	10/25/1995	ND	0.2000
Mercury	UG/L	UBC25	04/23/1996	ND	0.2000
Mercury	UG/L	UBC25	10/22/1996	ND	0.2000
Mercury	UG/L	UBC25	04/22/1997	ND	0.2000
Mercury	UG/L	UBC25	10/21/1997	ND	0.2000
Mercury	UG/L	UBC25	04/21/1998	ND	0.2000
Mercury	UG/L	UBC25	10/20/1998	ND	0.2000
Mercury	UG/L	UBC25	04/21/1999	ND	0.2000
Mercury	UG/L	UBC25	10/19/1999	ND	0.2000
Mercury	UG/L	UBC25	04/19/2000	ND	0.2000
Mercury	UG/L	UBC25	07/19/2000	ND	0.2000
Mercury	UG/L	UBC25	10/18/2000	ND	0.2000
Mercury	UG/L	UBC25	04/23/2001	ND	0.2000
Mercury	UG/L	UBC25	10/22/2001	ND	0.2000
Mercury	UG/L	UBC25	04/22/2002	ND	0.2000
Mercury	UG/L	UBC25	10/24/2002	ND	0.2000
Mercury	UG/L	UBC25	04/21/2003	ND	0.2000
Mercury	UG/L	UBC25	10/23/2003	ND	0.2000
Mercury	UG/L	UBC25	07/20/2004	ND	0.2000
Mercury	UG/L	UBC25	07/28/2005	ND	0.2000
Mercury	UG/L	UBC25	08/09/2006	ND	0.2000
Mercury	UG/L	UBC25	08/10/2007	ND	0.2000
Mercury	UG/L	UBC25	08/08/2008	ND	0.2000
Mercury	UG/L	UBC25	07/31/2009	ND	0.2000
Mercury	UG/L	UBC25	08/06/2010	ND	0.2000
Mercury	UG/L	UBC25	08/08/2011	ND	0.2000
Mercury	UG/L	UBC25	08/13/2012	ND	0.2000
Mercury	UG/L	UBC25	08/08/2013	ND	0.2000
Mercury	UG/L	UBC25	07/30/2014	ND	0.2000
Mercury	UG/L	UBC25	08/17/2015	ND	0.2000
Mercury	UG/L	UBC25	08/19/2016	ND	0.2000
Mercury	UG/L	UBC25	07/27/2017	ND	0.2000
Mercury	UG/L	UBC27	02/09/1993	ND	0.2000

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result
Mercury	UG/L	UBC27	04/14/1993	ND	0.2000
Mercury	UG/L	UBC27	08/11/1993	ND	0.2000
Mercury	UG/L	UBC27	10/13/1993	ND	0.2000
Mercury	UG/L	UBC27	02/14/1994	ND	0.2000
Mercury	UG/L	UBC27	05/11/1994	ND	0.2000
Mercury	UG/L	UBC27	10/20/1994	ND	0.2000
Mercury	UG/L	UBC27	04/20/1995	ND	0.2000
Mercury	UG/L	UBC27	10/25/1995	ND	0.2000
Mercury	UG/L	UBC27	04/23/1996	ND	0.2000
Mercury	UG/L	UBC27	10/22/1996	ND	0.2000
Mercury	UG/L	UBC27	04/22/1997	ND	0.2000
Mercury	UG/L	UBC27	10/23/1997	ND	0.2000
Mercury	UG/L	UBC27	04/21/1998	ND	0.2000
Mercury	UG/L	UBC27	10/20/1998	ND	0.2000
Mercury	UG/L	UBC27	04/21/1999	ND	0.2000
Mercury	UG/L	UBC27	10/19/1999	ND	0.2000
Mercury	UG/L	UBC27	04/19/2000	ND	0.2000
Mercury	UG/L	UBC27	07/18/2000	ND	0.2000
Mercury	UG/L	UBC27	10/18/2000	ND	0.2000
Mercury	UG/L	UBC27	04/23/2001	ND	0.2000
Mercury	UG/L	UBC27	10/22/2001	ND	0.2000
Mercury	UG/L	UBC27	04/22/2002	ND	0.2000
Mercury	UG/L	UBC27	10/24/2002	ND	0.2000
Mercury	UG/L	UBC27	04/21/2003	ND	0.2000
Mercury	UG/L	UBC27	10/23/2003	ND	0.2000
Mercury	UG/L	UBC27	07/20/2004	ND	0.2000
Mercury	UG/L	UBC27	07/28/2005	ND	0.2000
Mercury	UG/L	UBC27	08/09/2006	ND	0.2000
Mercury	UG/L	UBC27	08/10/2007	ND	0.2000
Mercury	UG/L	UBC27	08/08/2008	ND	0.2000
Mercury	UG/L	UBC27	07/31/2009	ND	0.2000
Mercury	UG/L	UBC27	08/06/2010	ND	0.2000
Mercury	UG/L	UBC27	08/08/2011	ND	0.2000
Mercury	UG/L	UBC27	08/13/2012	ND	0.2000
Mercury	UG/L	UBC27	08/08/2013	ND	0.2000
Mercury	UG/L	UBC27	07/30/2014	ND	0.2000
Mercury	UG/L	UBC27	08/17/2015	ND	0.2000
Mercury	UG/L	UBC27	08/19/2016	ND	0.2000
Mercury	UG/L	UBC27	07/27/2017	ND	0.2000
Mercury	UG/L	UBC28AR	10/25/1995	ND	0.2000
Mercury	UG/L	UBC28AR	04/18/1996	ND	0.2000
Mercury	UG/L	UBC28AR	10/17/1996	ND	0.2000
Mercury	UG/L	UBC28AR	04/22/1997	ND	0.2000
Mercury	UG/L	UBC28AR	10/16/1997	ND	0.2000
Mercury	UG/L	UBC28AR	04/21/1998	ND	0.2000
Mercury	UG/L	UBC28AR	10/19/1998	ND	0.2000
Mercury	UG/L	UBC28AR	04/21/1999	ND	0.2000
Mercury	UG/L	UBC28AR	10/19/1999	ND	0.2000
Mercury	UG/L	UBC28AR	04/19/2000	ND	0.2000
Mercury	UG/L	UBC28AR	07/19/2000	ND	0.2000
Mercury	UG/L	UBC28AR	10/18/2000	ND	0.2000
Mercury	UG/L	UBC28AR	04/23/2001	ND	0.2000
Mercury	UG/L	UBC28AR	10/22/2001	ND	0.2000
Mercury	UG/L	UBC28AR	04/22/2002	ND	0.2000
Mercury	UG/L	UBC28AR	10/24/2002	ND	0.2000
Mercury	UG/L	UBC28AR	04/21/2003	ND	0.2000
Mercury	UG/L	UBC28AR	10/23/2003	ND	0.2000

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result
Mercury	UG/L	UBC28AR	07/20/2004	ND	0.2000
Mercury	UG/L	UBC28AR	07/28/2005	ND	0.2000
Mercury	UG/L	UBC28AR	08/09/2006	ND	0.2000
Mercury	UG/L	UBC28AR	08/10/2007	ND	0.2000
Mercury	UG/L	UBC28AR	08/08/2008	ND	0.2000
Mercury	UG/L	UBC28AR	07/31/2009	ND	0.2000
Mercury	UG/L	UBC28AR	08/06/2010	ND	0.2000
Mercury	UG/L	UBC28AR	08/05/2011	ND	0.2000
Mercury	UG/L	UBC28AR	08/10/2012	ND	0.2000
Mercury	UG/L	UBC28AR	08/08/2013	ND	0.2000
Mercury	UG/L	UBC28AR	07/30/2014	ND	0.2000
Mercury	UG/L	UBC28AR	08/14/2015	ND	0.2000
Mercury	UG/L	UBC28AR	08/10/2016	ND	0.2000
Mercury	UG/L	UBC28AR	07/27/2017	ND	0.2000
Nickel	UG/L	MW1	01/11/1993	ND	50.0000
Nickel	UG/L	MW1	03/04/1993	ND	50.0000
Nickel	UG/L	MW1	05/03/1993	ND	50.0000
Nickel	UG/L	MW1	06/03/1993	ND	50.0000
Nickel	UG/L	MW1	07/06/1993	ND	50.0000
Nickel	UG/L	MW1	09/07/1993		114.0000
Nickel	UG/L	MW1	11/04/1993	ND	50.0000
Nickel	UG/L	MW1	12/06/1993	ND	50.0000
Nickel	UG/L	MW1	02/14/1994	ND	50.0000
Nickel	UG/L	MW1	05/11/1994	ND	50.0000
Nickel	UG/L	MW1	07/19/1994	ND	50.0000
Nickel	UG/L	MW1	10/19/1994	ND	50.0000
Nickel	UG/L	MW1	01/16/1995	ND	50.0000
Nickel	UG/L	MW1	04/19/1995	ND	50.0000
Nickel	UG/L	MW1	07/24/1995	ND	50.0000
Nickel	UG/L	MW1	10/24/1995	ND	50.0000
Nickel	UG/L	MW1	01/22/1996	ND	50.0000
Nickel	UG/L	MW1	04/22/1996	ND	50.0000
Nickel	UG/L	MW1	07/22/1996	ND	50.0000
Nickel	UG/L	MW1	10/21/1996	ND	50.0000
Nickel	UG/L	MW1	01/20/1997	ND	50.0000
Nickel	UG/L	MW1	04/21/1997	ND	50.0000
Nickel	UG/L	MW1	07/15/1997	ND	50.0000
Nickel	UG/L	MW1	10/16/1997	ND	50.0000
Nickel	UG/L	MW1	01/19/1998	ND	50.0000
Nickel	UG/L	MW1	04/20/1998	ND	50.0000
Nickel	UG/L	MW1	07/15/1998	ND	50.0000
Nickel	UG/L	MW1	10/19/1998	ND	50.0000
Nickel	UG/L	MW1	01/18/1999	ND	50.0000
Nickel	UG/L	MW1	04/20/1999	ND	50.0000
Nickel	UG/L	MW1	07/19/1999	ND	50.0000
Nickel	UG/L	MW1	10/18/1999	ND	50.0000
Nickel	UG/L	MW1	01/17/2000	ND	50.0000
Nickel	UG/L	MW1	04/18/2000	ND	50.0000
Nickel	UG/L	MW1	07/17/2000	ND	50.0000
Nickel	UG/L	MW1	10/17/2000	ND	50.0000
Nickel	UG/L	MW1	01/16/2001	ND	50.0000
Nickel	UG/L	MW1	04/18/2001	ND	50.0000
Nickel	UG/L	MW1	07/16/2001	ND	50.0000
Nickel	UG/L	MW1	10/17/2001	ND	50.0000
Nickel	UG/L	MW1	01/15/2002	ND	50.0000
Nickel	UG/L	MW1	04/16/2002	ND	50.0000
Nickel	UG/L	MW1	07/16/2002	ND	50.0000

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	
Nickel	UG/L	MW1	10/22/2002	ND	50.0000	
Nickel	UG/L	MW1	01/20/2003	ND	50.0000	
Nickel	UG/L	MW1	04/16/2003	ND	50.0000	
Nickel	UG/L	MW1	07/14/2003	ND	50.0000	
Nickel	UG/L	MW1	10/21/2003	ND	50.0000	
Nickel	UG/L	MW1	01/19/2004	ND	50.0000	
Nickel	UG/L	MW1	01/26/2005	ND	50.0000	
Nickel	UG/L	MW1	01/12/2006	ND	50.0000	
Nickel	UG/L	MW1	02/07/2007	ND	50.0000	
Nickel	UG/L	MW126T	11/08/1995	ND	50.0000	
Nickel	UG/L	MW126T	02/29/1996	ND	50.0000	
Nickel	UG/L	MW126T	04/23/1996	ND	50.0000	
Nickel	UG/L	MW126T	07/22/1996	ND	50.0000	
Nickel	UG/L	MW126T	10/21/1996	ND	50.0000	
Nickel	UG/L	MW126T	01/20/1997	ND	50.0000	
Nickel	UG/L	MW126T	04/23/1997	ND	50.0000	
Nickel	UG/L	MW126T	07/15/1997	ND	50.0000	
Nickel	UG/L	MW126T	10/16/1997	ND	50.0000	
Nickel	UG/L	MW126T	01/19/1998	ND	50.0000	
Nickel	UG/L	MW126T	04/16/1998	ND	50.0000	
Nickel	UG/L	MW126T	07/16/1998	ND	50.0000	
Nickel	UG/L	MW126T	10/15/1998	ND	50.0000	
Nickel	UG/L	MW126T	01/18/1999	ND	50.0000	
Nickel	UG/L	MW126T	04/21/1999	ND	50.0000	
Nickel	UG/L	MW126T	07/19/1999	ND	50.0000	
Nickel	UG/L	MW126T	10/20/1999	ND	50.0000	
Nickel	UG/L	MW126T	01/17/2000	ND	50.0000	
Nickel	UG/L	MW126T	04/19/2000	ND	50.0000	
Nickel	UG/L	MW126T	07/17/2000	ND	50.0000	
Nickel	UG/L	MW126T	10/18/2000	ND	50.0000	
Nickel	UG/L	MW126T	01/18/2001	ND	50.0000	
Nickel	UG/L	MW126T	04/19/2001	ND	50.0000	
Nickel	UG/L	MW126T	07/16/2001	ND	50.0000	
Nickel	UG/L	MW126T	10/18/2001	ND	50.0000	
Nickel	UG/L	MW126T	01/17/2002	ND	50.0000	
Nickel	UG/L	MW126T	04/18/2002	ND	50.0000	
Nickel	UG/L	MW126T	07/17/2002	ND	50.0000	
Nickel	UG/L	MW126T	10/24/2002	ND	50.0000	
Nickel	UG/L	MW126T	01/20/2003	ND	50.0000	
Nickel	UG/L	MW126T	04/21/2003	ND	50.0000	
Nickel	UG/L	MW126T	07/16/2003	ND	50.0000	
Nickel	UG/L	MW126T	10/23/2003	ND	50.0000	
Nickel	UG/L	MW126T	01/19/2004	ND	50.0000	
Nickel	UG/L	MW126T	01/26/2005	ND	50.0000	
Nickel	UG/L	MW126T	01/16/2006	ND	50.0000	
Nickel	UG/L	MW126T	02/09/2007	ND	50.0000	
Nickel	UG/L	MW126T	02/22/2008	ND	50.0000	
Nickel	UG/L	MW126T	02/06/2009	ND	50.0000	
Nickel	UG/L	MW126T	02/10/2010	ND	5.0000	
Nickel	UG/L	MW126T	02/17/2011	ND	50.0000	
Nickel	UG/L	MW126T	03/09/2012	ND	50.0000	
Nickel	UG/L	MW126T	02/15/2013	ND	50.0000	
Nickel	UG/L	MW126T	02/06/2014	ND	50.0000	
Nickel	UG/L	MW126T	02/05/2015	ND	50.0000	
Nickel	UG/L	MW126T	02/10/2016	ND	50.0000	
Nickel	UG/L	MW126T	02/02/2017	ND	50.0000	
Nickel	UG/L	MW92SR	07/25/1995	ND	50.0000	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result
Nickel	UG/L	MW92SR	10/25/1995	ND	50.0000
Nickel	UG/L	MW92SR	01/17/1996	ND	50.0000
Nickel	UG/L	MW92SR	04/23/1996	ND	50.0000
Nickel	UG/L	MW92SR	07/18/1996	ND	50.0000
Nickel	UG/L	MW92SR	10/22/1996	ND	50.0000
Nickel	UG/L	MW92SR	01/20/1997	ND	50.0000
Nickel	UG/L	MW92SR	04/22/1997	ND	50.0000
Nickel	UG/L	MW92SR	07/16/1997	ND	50.0000
Nickel	UG/L	MW92SR	10/21/1997	ND	50.0000
Nickel	UG/L	MW92SR	01/21/1998	ND	50.0000
Nickel	UG/L	MW92SR	04/21/1998	ND	50.0000
Nickel	UG/L	MW92SR	07/16/1998	ND	50.0000
Nickel	UG/L	MW92SR	10/20/1998	ND	50.0000
Nickel	UG/L	MW92SR	01/19/1999	ND	50.0000
Nickel	UG/L	MW92SR	04/21/1999	ND	50.0000
Nickel	UG/L	MW92SR	07/20/1999	ND	50.0000
Nickel	UG/L	MW92SR	10/19/1999	ND	50.0000
Nickel	UG/L	MW92SR	01/18/2000	ND	50.0000
Nickel	UG/L	MW92SR	04/19/2000	ND	50.0000
Nickel	UG/L	MW92SR	07/18/2000	ND	50.0000
Nickel	UG/L	MW92SR	10/18/2000	ND	50.0000
Nickel	UG/L	MW92SR	01/17/2001	ND	50.0000
Nickel	UG/L	MW92SR	04/23/2001	ND	50.0000
Nickel	UG/L	MW92SR	07/17/2001	ND	50.0000
Nickel	UG/L	MW92SR	10/22/2001	ND	50.0000
Nickel	UG/L	MW92SR	01/16/2002	ND	50.0000
Nickel	UG/L	MW92SR	04/22/2002	ND	50.0000
Nickel	UG/L	MW92SR	07/17/2002	ND	50.0000
Nickel	UG/L	MW92SR	10/24/2002	ND	50.0000
Nickel	UG/L	MW92SR	01/20/2003	ND	50.0000
Nickel	UG/L	MW92SR	04/21/2003	ND	50.0000
Nickel	UG/L	MW92SR	07/16/2003	ND	50.0000
Nickel	UG/L	MW92SR	10/23/2003	ND	50.0000
Nickel	UG/L	MW92SR	01/20/2004	ND	50.0000
Nickel	UG/L	MW92SR	01/27/2005	ND	50.0000
Nickel	UG/L	MW92SR	01/13/2006	ND	50.0000
Nickel	UG/L	MW92SR	02/08/2007	ND	50.0000
Nickel	UG/L	MW92SR	02/21/2008	ND	50.0000
Nickel	UG/L	MW92SR	02/04/2009	ND	50.0000
Nickel	UG/L	MW92SR	02/08/2010	ND	5.0000
Nickel	UG/L	MW92SR	02/15/2011	ND	50.0000
Nickel	UG/L	MW92SR	03/08/2012	ND	50.0000
Nickel	UG/L	MW92SR	02/14/2013	ND	50.0000
Nickel	UG/L	MW92SR	02/06/2014	ND	50.0000
Nickel	UG/L	MW92SR	02/04/2015	ND	50.0000
Nickel	UG/L	MW92SR	01/29/2016	ND	50.0000
Nickel	UG/L	MW92SR	01/27/2017	ND	50.0000
Nickel	UG/L	MW93PR	07/25/1995	ND	50.0000
Nickel	UG/L	MW93PR	10/25/1995	ND	50.0000
Nickel	UG/L	MW93PR	01/17/1996	ND	50.0000
Nickel	UG/L	MW93PR	04/23/1996	ND	50.0000
Nickel	UG/L	MW93PR	07/18/1996	ND	50.0000
Nickel	UG/L	MW93PR	10/22/1996	ND	50.0000
Nickel	UG/L	MW93PR	01/20/1997	ND	50.0000
Nickel	UG/L	MW93PR	04/22/1997	ND	50.0000
Nickel	UG/L	MW93PR	07/16/1997	ND	50.0000
Nickel	UG/L	MW93PR	10/23/1997	ND	50.0000

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result
Nickel	UG/L	MW93PR	01/21/1998	ND	50.0000
Nickel	UG/L	MW93PR	04/21/1998	ND	50.0000
Nickel	UG/L	MW93PR	07/16/1998	ND	50.0000
Nickel	UG/L	MW93PR	10/20/1998	ND	50.0000
Nickel	UG/L	MW93PR	01/19/1999	ND	50.0000
Nickel	UG/L	MW93PR	04/21/1999	ND	50.0000
Nickel	UG/L	MW93PR	07/20/1999	ND	50.0000
Nickel	UG/L	MW93PR	10/19/1999	ND	50.0000
Nickel	UG/L	MW93PR	01/18/2000	ND	50.0000
Nickel	UG/L	MW93PR	04/19/2000	ND	50.0000
Nickel	UG/L	MW93PR	07/18/2000	ND	50.0000
Nickel	UG/L	MW93PR	10/18/2000	ND	50.0000
Nickel	UG/L	MW93PR	01/17/2001	ND	50.0000
Nickel	UG/L	MW93PR	04/23/2001	ND	50.0000
Nickel	UG/L	MW93PR	07/17/2001	ND	50.0000
Nickel	UG/L	MW93PR	10/22/2001	ND	50.0000
Nickel	UG/L	MW93PR	01/16/2002	ND	50.0000
Nickel	UG/L	MW93PR	04/22/2002	ND	50.0000
Nickel	UG/L	MW93PR	07/17/2002	ND	50.0000
Nickel	UG/L	MW93PR	10/24/2002	ND	50.0000
Nickel	UG/L	MW93PR	01/20/2003	ND	50.0000
Nickel	UG/L	MW93PR	04/21/2003	ND	50.0000
Nickel	UG/L	MW93PR	07/16/2003	ND	50.0000
Nickel	UG/L	MW93PR	10/23/2003	ND	50.0000
Nickel	UG/L	MW93PR	04/20/2004	ND	50.0000
Nickel	UG/L	MW93PR	04/29/2005	ND	50.0000
Nickel	UG/L	MW93PR	05/11/2006	ND	50.0000
Nickel	UG/L	MW93PR	05/02/2007	ND	50.0000
Nickel	UG/L	MW93PR	04/30/2008	ND	50.0000
Nickel	UG/L	MW93PR	05/06/2009	ND	50.0000
Nickel	UG/L	MW93PR	05/12/2010	ND	50.0000
Nickel	UG/L	MW93PR	05/12/2011	ND	50.0000
Nickel	UG/L	MW93PR	05/11/2012	ND	50.0000
Nickel	UG/L	MW93PR	05/09/2013	ND	50.0000
Nickel	UG/L	MW93PR	04/30/2014	ND	50.0000
Nickel	UG/L	MW93PR	05/06/2015	ND	50.0000
Nickel	UG/L	MW93PR	05/03/2016	ND	50.0000
Nickel	UG/L	MW93PR	04/27/2017	ND	40.0000
Nickel	UG/L	MW94PR	07/26/1995	ND	50.0000
Nickel	UG/L	MW94PR	10/25/1995	ND	50.0000
Nickel	UG/L	MW94PR	01/17/1996	ND	50.0000
Nickel	UG/L	MW94PR	04/23/1996	ND	50.0000
Nickel	UG/L	MW94PR	07/18/1996	ND	50.0000
Nickel	UG/L	MW94PR	10/22/1996	ND	50.0000
Nickel	UG/L	MW94PR	01/20/1997	ND	50.0000
Nickel	UG/L	MW94PR	04/23/1997	ND	50.0000
Nickel	UG/L	MW94PR	07/15/1997	ND	50.0000
Nickel	UG/L	MW94PR	10/21/1997	ND	50.0000
Nickel	UG/L	MW94PR	01/15/1998	ND	50.0000
Nickel	UG/L	MW94PR	04/22/1998	ND	50.0000
Nickel	UG/L	MW94PR	07/16/1998	ND	50.0000
Nickel	UG/L	MW94PR	10/21/1998	ND	50.0000
Nickel	UG/L	MW94PR	01/18/1999	ND	50.0000
Nickel	UG/L	MW94PR	04/21/1999	ND	50.0000
Nickel	UG/L	MW94PR	07/19/1999	ND	50.0000
Nickel	UG/L	MW94PR	10/19/1999	ND	50.0000
Nickel	UG/L	MW94PR	01/17/2000	ND	50.0000

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result
Nickel	UG/L	MW94PR	04/19/2000	ND	50.0000
Nickel	UG/L	MW94PR	07/17/2000	ND	50.0000
Nickel	UG/L	MW94PR	10/18/2000	ND	50.0000
Nickel	UG/L	MW94PR	01/18/2001	ND	50.0000
Nickel	UG/L	MW94PR	04/19/2001	ND	50.0000
Nickel	UG/L	MW94PR	07/16/2001	ND	50.0000
Nickel	UG/L	MW94PR	10/18/2001	ND	50.0000
Nickel	UG/L	MW94PR	01/17/2002	ND	50.0000
Nickel	UG/L	MW94PR	04/18/2002	ND	50.0000
Nickel	UG/L	MW94PR	07/17/2002	ND	50.0000
Nickel	UG/L	MW94PR	10/24/2002	ND	50.0000
Nickel	UG/L	MW94PR	01/20/2003	ND	50.0000
Nickel	UG/L	MW94PR	04/21/2003	ND	50.0000
Nickel	UG/L	MW94PR	07/16/2003	ND	50.0000
Nickel	UG/L	MW94PR	10/23/2003	ND	50.0000
Nickel	UG/L	MW94PR	04/20/2004	ND	50.0000
Nickel	UG/L	MW94PR	04/29/2005	ND	50.0000
Nickel	UG/L	MW94PR	05/11/2006	ND	50.0000
Nickel	UG/L	MW94PR	05/03/2007	ND	50.0000
Nickel	UG/L	MW94PR	05/01/2008	ND	50.0000
Nickel	UG/L	MW94PR	05/07/2009	ND	50.0000
Nickel	UG/L	MW94PR	05/14/2010	ND	50.0000
Nickel	UG/L	MW94PR	05/13/2011	ND	50.0000
Nickel	UG/L	MW94PR	05/11/2012	ND	50.0000
Nickel	UG/L	MW94PR	05/09/2013	ND	50.0000
Nickel	UG/L	MW94PR	04/30/2014	ND	50.0000
Nickel	UG/L	MW94PR	05/06/2015	ND	50.0000
Nickel	UG/L	MW94PR	05/03/2016	ND	50.0000
Nickel	UG/L	MW94PR	04/28/2017	ND	40.0000
Nickel	UG/L	MW95P	02/10/1993	ND	50.0000
Nickel	UG/L	MW95P	04/14/1993	ND	50.0000
Nickel	UG/L	MW95P	08/10/1993	ND	50.0000
Nickel	UG/L	MW95P	10/13/1993	ND	50.0000
Nickel	UG/L	MW95P	02/14/1994	ND	50.0000
Nickel	UG/L	MW95P	05/09/1994	ND	50.0000
Nickel	UG/L	MW95P	07/20/1994	ND	50.0000
Nickel	UG/L	MW95P	10/20/1994	ND	50.0000
Nickel	UG/L	MW95P	01/17/1995	ND	50.0000
Nickel	UG/L	MW95P	04/24/1995	ND	50.0000
Nickel	UG/L	MW95P	07/25/1995	ND	50.0000
Nickel	UG/L	MW95P	10/23/1995	ND	50.0000
Nickel	UG/L	MW95P	01/23/1996	ND	50.0000
Nickel	UG/L	MW95P	04/15/1996	ND	50.0000
Nickel	UG/L	MW95P	07/18/1996	ND	50.0000
Nickel	UG/L	MW95P	10/22/1996	ND	50.0000
Nickel	UG/L	MW95P	01/20/1997	ND	50.0000
Nickel	UG/L	MW95P	04/22/1997	ND	50.0000
Nickel	UG/L	MW95P	07/16/1997	ND	50.0000
Nickel	UG/L	MW95P	10/16/1997	ND	50.0000
Nickel	UG/L	MW95P	01/15/1998	ND	50.0000
Nickel	UG/L	MW95P	04/21/1998	ND	50.0000
Nickel	UG/L	MW95P	07/16/1998	ND	50.0000
Nickel	UG/L	MW95P	10/19/1998	ND	50.0000
Nickel	UG/L	MW95P	01/19/1999	ND	50.0000
Nickel	UG/L	MW95P	04/21/1999	ND	50.0000
Nickel	UG/L	MW95P	07/20/1999	ND	50.0000
Nickel	UG/L	MW95P	10/19/1999	ND	50.0000

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result
Nickel	UG/L	MW95P	01/18/2000	ND	50.0000
Nickel	UG/L	MW95P	04/19/2000	ND	50.0000
Nickel	UG/L	MW95P	07/18/2000	ND	50.0000
Nickel	UG/L	MW95P	10/18/2000	ND	50.0000
Nickel	UG/L	MW95P	01/17/2001	ND	50.0000
Nickel	UG/L	MW95P	04/23/2001	ND	50.0000
Nickel	UG/L	MW95P	07/17/2001	ND	50.0000
Nickel	UG/L	MW95P	10/22/2001	ND	50.0000
Nickel	UG/L	MW95P	01/16/2002	ND	50.0000
Nickel	UG/L	MW95P	04/22/2002	ND	50.0000
Nickel	UG/L	MW95P	07/17/2002	ND	50.0000
Nickel	UG/L	MW95P	10/24/2002	ND	50.0000
Nickel	UG/L	MW95P	01/20/2003	ND	50.0000
Nickel	UG/L	MW95P	04/21/2003	ND	50.0000
Nickel	UG/L	MW95P	07/16/2003	ND	50.0000
Nickel	UG/L	MW95P	10/23/2003	ND	50.0000
Nickel	UG/L	MW95P	04/20/2004	ND	50.0000
Nickel	UG/L	MW95P	04/29/2005	ND	50.0000
Nickel	UG/L	MW95P	05/11/2006	ND	50.0000
Nickel	UG/L	MW95P	05/02/2007	ND	50.0000
Nickel	UG/L	MW95P	04/30/2008	ND	50.0000
Nickel	UG/L	MW95P	05/06/2009	ND	50.0000
Nickel	UG/L	MW95P	05/12/2010	ND	50.0000
Nickel	UG/L	MW95P	05/11/2011	ND	50.0000
Nickel	UG/L	MW95P	05/11/2012	ND	50.0000
Nickel	UG/L	MW95P	05/09/2013	ND	50.0000
Nickel	UG/L	MW95P	04/23/2014	ND	50.0000
Nickel	UG/L	MW95P	04/30/2015	ND	50.0000
Nickel	UG/L	MW95P	04/28/2016	ND	50.0000
Nickel	UG/L	MW95P	04/20/2017	ND	40.0000
Nickel	UG/L	MW96T	04/14/1993	ND	50.0000
Nickel	UG/L	MW96T	08/11/1993	ND	50.0000
Nickel	UG/L	MW96T	10/13/1993	ND	50.0000
Nickel	UG/L	MW96T	01/04/1994	ND	50.0000
Nickel	UG/L	MW96T	04/05/1994	ND	50.0000
Nickel	UG/L	MW96T	07/19/1994	ND	50.0000
Nickel	UG/L	MW96T	10/20/1994	ND	50.0000
Nickel	UG/L	MW96T	01/17/1995	ND	50.0000
Nickel	UG/L	MW96T	04/24/1995	ND	50.0000
Nickel	UG/L	MW96T	07/25/1995	ND	50.0000
Nickel	UG/L	MW96T	10/11/1995	ND	50.0000
Nickel	UG/L	MW96T	01/17/1996	ND	50.0000
Nickel	UG/L	MW96T	04/18/1996	ND	50.0000
Nickel	UG/L	MW96T	07/18/1996	ND	50.0000
Nickel	UG/L	MW96T	10/22/1996	ND	50.0000
Nickel	UG/L	MW96T	01/21/1997	ND	50.0000
Nickel	UG/L	MW96T	04/22/1997	ND	50.0000
Nickel	UG/L	MW96T	07/15/1997	ND	50.0000
Nickel	UG/L	MW96T	10/21/1997	ND	50.0000
Nickel	UG/L	MW96T	01/15/1998	ND	50.0000
Nickel	UG/L	MW96T	04/22/1998	ND	50.0000
Nickel	UG/L	MW96T	07/16/1998	ND	50.0000
Nickel	UG/L	MW96T	10/20/1998	ND	50.0000
Nickel	UG/L	MW96T	01/20/1999	ND	50.0000
Nickel	UG/L	MW96T	04/21/1999	ND	50.0000
Nickel	UG/L	MW96T	07/20/1999	ND	50.0000
Nickel	UG/L	MW96T	10/19/1999	ND	50.0000

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result
Nickel	UG/L	MW96T	01/19/2000	ND	50.0000
Nickel	UG/L	MW96T	04/19/2000	ND	50.0000
Nickel	UG/L	MW96T	07/19/2000	ND	50.0000
Nickel	UG/L	MW96T	10/18/2000	ND	50.0000
Nickel	UG/L	MW96T	01/17/2001	ND	50.0000
Nickel	UG/L	MW96T	04/19/2001	ND	50.0000
Nickel	UG/L	MW96T	07/18/2001	ND	50.0000
Nickel	UG/L	MW96T	10/18/2001	ND	50.0000
Nickel	UG/L	MW96T	01/16/2002	ND	50.0000
Nickel	UG/L	MW96T	04/18/2002	ND	50.0000
Nickel	UG/L	MW96T	07/18/2002	ND	50.0000
Nickel	UG/L	MW96T	10/24/2002	ND	50.0000
Nickel	UG/L	MW96T	01/21/2003	ND	50.0000
Nickel	UG/L	MW96T	04/21/2003	ND	50.0000
Nickel	UG/L	MW96T	07/16/2003	ND	50.0000
Nickel	UG/L	MW96T	10/23/2003	ND	50.0000
Nickel	UG/L	MW96T	01/20/2004	ND	50.0000
Nickel	UG/L	MW96T	01/27/2005	ND	50.0000
Nickel	UG/L	MW96T	01/17/2006	ND	50.0000
Nickel	UG/L	MW96T	02/08/2007	ND	50.0000
Nickel	UG/L	MW96T	02/22/2008	ND	50.0000
Nickel	UG/L	MW96T	02/06/2009	ND	50.0000
Nickel	UG/L	MW96T	02/09/2010	ND	5.0000
Nickel	UG/L	MW96T	02/17/2011	ND	50.0000
Nickel	UG/L	MW96T	03/09/2012	ND	50.0000
Nickel	UG/L	MW96T	02/19/2013	ND	50.0000
Nickel	UG/L	MW96T	02/07/2014	ND	50.0000
Nickel	UG/L	MW96T	02/04/2015	ND	50.0000
Nickel	UG/L	MW96T	02/10/2016	ND	50.0000
Nickel	UG/L	MW96T	02/01/2017	ND	50.0000
Nickel	UG/L	MW97T	02/10/1993	ND	50.0000
Nickel	UG/L	MW97T	04/14/1993	ND	50.0000
Nickel	UG/L	MW97T	08/10/1993	ND	50.0000
Nickel	UG/L	MW97T	10/13/1993	ND	50.0000
Nickel	UG/L	MW97T	02/16/1994	ND	50.0000
Nickel	UG/L	MW97T	05/09/1994	ND	50.0000
Nickel	UG/L	MW97T	07/20/1994	ND	50.0000
Nickel	UG/L	MW97T	10/24/1994	ND	50.0000
Nickel	UG/L	MW97T	01/17/1995	ND	50.0000
Nickel	UG/L	MW97T	04/07/1995	ND	50.0000
Nickel	UG/L	MW97T	07/25/1995	ND	50.0000
Nickel	UG/L	MW98TR	07/25/1995	ND	50.0000
Nickel	UG/L	MW98TR	10/25/1995	ND	50.0000
Nickel	UG/L	MW98TR	01/17/1996	ND	50.0000
Nickel	UG/L	MW98TR	04/23/1996	ND	50.0000
Nickel	UG/L	MW98TR	07/18/1996	ND	50.0000
Nickel	UG/L	MW98TR	10/22/1996	ND	50.0000
Nickel	UG/L	MW98TR	01/21/1997	ND	50.0000
Nickel	UG/L	MW98TR	04/22/1997	ND	50.0000
Nickel	UG/L	MW98TR	07/15/1997	ND	50.0000
Nickel	UG/L	MW98TR	10/21/1997	ND	50.0000
Nickel	UG/L	MW98TR	01/20/1998	ND	50.0000
Nickel	UG/L	MW98TR	07/16/1998	ND	50.0000
Nickel	UG/L	MW98TR	10/20/1998	ND	50.0000
Nickel	UG/L	MW98TR	01/20/1999	ND	50.0000
Nickel	UG/L	MW98TR	04/21/1999	ND	50.0000
Nickel	UG/L	MW98TR	07/20/1999	ND	50.0000

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result
Nickel	UG/L	MW98TR	10/19/1999	ND	50.0000
Nickel	UG/L	MW98TR	01/19/2000	ND	50.0000
Nickel	UG/L	MW98TR	04/19/2000	ND	50.0000
Nickel	UG/L	MW98TR	07/19/2000	ND	50.0000
Nickel	UG/L	MW98TR	10/18/2000	ND	50.0000
Nickel	UG/L	MW98TR	01/17/2001	ND	50.0000
Nickel	UG/L	MW98TR	04/19/2001	ND	50.0000
Nickel	UG/L	MW98TR	07/18/2001	ND	50.0000
Nickel	UG/L	MW98TR	10/18/2001	ND	50.0000
Nickel	UG/L	MW98TR	01/16/2002	ND	50.0000
Nickel	UG/L	MW98TR	04/18/2002	ND	50.0000
Nickel	UG/L	MW98TR	07/18/2002	ND	50.0000
Nickel	UG/L	MW98TR	10/24/2002	ND	50.0000
Nickel	UG/L	MW98TR	01/21/2003	ND	50.0000
Nickel	UG/L	MW98TR	04/21/2003	ND	50.0000
Nickel	UG/L	MW98TR	07/16/2003	ND	50.0000
Nickel	UG/L	MW98TR	10/23/2003	ND	50.0000
Nickel	UG/L	MW98TR	01/20/2004	ND	50.0000
Nickel	UG/L	MW98TR	01/27/2005	ND	50.0000
Nickel	UG/L	MW98TR	01/17/2006	ND	50.0000
Nickel	UG/L	MW98TR	02/08/2007	ND	50.0000
Nickel	UG/L	MW98TR	02/22/2008	ND	50.0000
Nickel	UG/L	MW98TR	02/06/2009	ND	50.0000
Nickel	UG/L	MW98TR	02/09/2010	ND	5.0000
Nickel	UG/L	MW98TR	02/17/2011	ND	50.0000
Nickel	UG/L	MW98TR	03/09/2012	ND	50.0000
Nickel	UG/L	MW98TR	02/15/2013	ND	50.0000
Nickel	UG/L	MW98TR	02/06/2014	ND	50.0000
Nickel	UG/L	MW98TR	02/04/2015	ND	50.0000
Nickel	UG/L	MW98TR	02/10/2016	ND	50.0000
Nickel	UG/L	MW98TR	02/01/2017	ND	50.0000
Nickel	UG/L	PSDL17A	01/05/1993	ND	50.0000
Nickel	UG/L	PSDL17A	03/09/1993	ND	50.0000
Nickel	UG/L	PSDL17A	05/06/1993	ND	50.0000
Nickel	UG/L	PSDL17A	06/09/1993	ND	50.0000
Nickel	UG/L	PSDL17A	07/08/1993	ND	50.0000
Nickel	UG/L	PSDL17A	09/02/1993	ND	50.0000
Nickel	UG/L	PSDL17A	11/03/1993	ND	50.0000
Nickel	UG/L	PSDL17A	12/08/1993	ND	50.0000
Nickel	UG/L	PSDL17A	02/15/1994	ND	50.0000
Nickel	UG/L	PSDL17A	05/09/1994	ND	50.0000
Nickel	UG/L	PSDL17A	07/06/1994	ND	50.0000
Nickel	UG/L	PSDL17A	10/20/1994	ND	50.0000
Nickel	UG/L	PSDL17A	01/09/1995	ND	50.0000
Nickel	UG/L	PSDL17A	04/07/1995	ND	50.0000
Nickel	UG/L	PSDL17A	07/17/1995	ND	50.0000
Nickel	UG/L	PSDL17A	10/11/1995	ND	50.0000
Nickel	UG/L	PSDL17A	01/16/1996	ND	50.0000
Nickel	UG/L	PSDL17A	04/10/1996	ND	50.0000
Nickel	UG/L	PSDL17A	07/18/1996	ND	50.0000
Nickel	UG/L	PSDL17A	10/22/1996	ND	50.0000
Nickel	UG/L	PSDL17A	01/20/1997	ND	50.0000
Nickel	UG/L	PSDL17A	04/22/1997	ND	50.0000
Nickel	UG/L	PSDL17A	07/16/1997	ND	50.0000
Nickel	UG/L	PSDL17A	10/16/1997	ND	50.0000
Nickel	UG/L	PSDL17A	01/20/1998	ND	50.0000
Nickel	UG/L	PSDL17A	04/22/1998	ND	50.0000

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result
Nickel	UG/L	PSDL17A	07/16/1998	ND	50.0000
Nickel	UG/L	PSDL17A	10/19/1998	ND	50.0000
Nickel	UG/L	PSDL17A	01/19/1999	ND	50.0000
Nickel	UG/L	PSDL17A	04/20/1999	ND	50.0000
Nickel	UG/L	PSDL17A	07/20/1999	ND	50.0000
Nickel	UG/L	PSDL17A	10/18/1999	ND	50.0000
Nickel	UG/L	PSDL17A	01/18/2000	ND	50.0000
Nickel	UG/L	PSDL17A	04/18/2000	ND	50.0000
Nickel	UG/L	PSDL17A	07/18/2000	ND	50.0000
Nickel	UG/L	PSDL17A	10/17/2000	ND	50.0000
Nickel	UG/L	PSDL17A	01/16/2001	ND	50.0000
Nickel	UG/L	PSDL17A	04/18/2001	ND	50.0000
Nickel	UG/L	PSDL17A	07/17/2001	ND	50.0000
Nickel	UG/L	PSDL17A	10/17/2001	ND	50.0000
Nickel	UG/L	PSDL17A	01/16/2002	ND	50.0000
Nickel	UG/L	PSDL17A	04/16/2002	ND	50.0000
Nickel	UG/L	PSDL17A	07/17/2002	ND	50.0000
Nickel	UG/L	PSDL17A	10/22/2002	ND	50.0000
Nickel	UG/L	PSDL17A	01/20/2003	ND	50.0000
Nickel	UG/L	PSDL17A	04/21/2003	ND	50.0000
Nickel	UG/L	PSDL17A	07/15/2003	ND	50.0000
Nickel	UG/L	PSDL17A	10/23/2003	ND	50.0000
Nickel	UG/L	PSDL17A	01/19/2004	ND	50.0000
Nickel	UG/L	PSDL17A	01/26/2005	ND	50.0000
Nickel	UG/L	PSDL17A	01/13/2006	ND	50.0000
Nickel	UG/L	PSDL17A	02/07/2007	ND	50.0000
Nickel	UG/L	PSDL17A	02/21/2008	ND	50.0000
Nickel	UG/L	PSDL17A	02/05/2009	ND	50.0000
Nickel	UG/L	PSDL17A	02/09/2010	ND	5.0000
Nickel	UG/L	PSDL17A	02/15/2011	ND	50.0000
Nickel	UG/L	PSDL17A	03/08/2012	ND	50.0000
Nickel	UG/L	PSDL17A	02/14/2013	ND	50.0000
Nickel	UG/L	PSDL17A	02/06/2014	ND	50.0000
Nickel	UG/L	PSDL17A	02/04/2015	ND	50.0000
Nickel	UG/L	PSDL17A	02/05/2016	ND	50.0000
Nickel	UG/L	PSDL17A	01/31/2017	ND	50.0000
Nickel	UG/L	UBC25	02/09/1993	ND	50.0000
Nickel	UG/L	UBC25	04/14/1993	ND	50.0000
Nickel	UG/L	UBC25	08/05/1993	ND	50.0000
Nickel	UG/L	UBC25	10/12/1993	ND	50.0000
Nickel	UG/L	UBC25	02/14/1994	ND	50.0000
Nickel	UG/L	UBC25	05/09/1994	ND	50.0000
Nickel	UG/L	UBC25	10/20/1994	ND	50.0000
Nickel	UG/L	UBC25	04/20/1995	ND	50.0000
Nickel	UG/L	UBC25	10/25/1995	ND	50.0000
Nickel	UG/L	UBC25	04/23/1996	ND	50.0000
Nickel	UG/L	UBC25	10/22/1996	ND	50.0000
Nickel	UG/L	UBC25	04/22/1997	ND	50.0000
Nickel	UG/L	UBC25	10/21/1997	ND	50.0000
Nickel	UG/L	UBC25	04/21/1998	ND	50.0000
Nickel	UG/L	UBC25	10/20/1998	ND	50.0000
Nickel	UG/L	UBC25	04/21/1999	ND	50.0000
Nickel	UG/L	UBC25	10/19/1999	ND	50.0000
Nickel	UG/L	UBC25	04/19/2000	ND	50.0000
Nickel	UG/L	UBC25	07/19/2000	ND	50.0000
Nickel	UG/L	UBC25	10/18/2000	ND	50.0000
Nickel	UG/L	UBC25	04/23/2001	ND	50.0000

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	
Nickel	UG/L	UBC25	10/22/2001	ND	50.0000	
Nickel	UG/L	UBC25	04/22/2002	ND	50.0000	
Nickel	UG/L	UBC25	10/24/2002	ND	50.0000	
Nickel	UG/L	UBC25	04/21/2003	ND	50.0000	
Nickel	UG/L	UBC25	10/23/2003	ND	50.0000	
Nickel	UG/L	UBC25	07/20/2004	ND	50.0000	
Nickel	UG/L	UBC25	07/28/2005	ND	50.0000	
Nickel	UG/L	UBC25	08/09/2006	ND	50.0000	
Nickel	UG/L	UBC25	08/10/2007	ND	50.0000	
Nickel	UG/L	UBC25	08/08/2008	ND	50.0000	
Nickel	UG/L	UBC25	07/31/2009	ND	50.0000	
Nickel	UG/L	UBC25	08/06/2010	ND	50.0000	
Nickel	UG/L	UBC25	08/08/2011	ND	50.0000	
Nickel	UG/L	UBC25	08/13/2012	ND	50.0000	
Nickel	UG/L	UBC25	08/08/2013	ND	50.0000	
Nickel	UG/L	UBC25	07/30/2014	ND	50.0000	
Nickel	UG/L	UBC25	08/17/2015	ND	50.0000	
Nickel	UG/L	UBC25	08/19/2016	ND	50.0000	
Nickel	UG/L	UBC25	07/27/2017	ND	40.0000	
Nickel	UG/L	UBC27	02/09/1993	ND	50.0000	
Nickel	UG/L	UBC27	04/14/1993	ND	50.0000	
Nickel	UG/L	UBC27	08/11/1993	ND	50.0000	
Nickel	UG/L	UBC27	10/13/1993	ND	50.0000	
Nickel	UG/L	UBC27	02/14/1994	ND	50.0000	
Nickel	UG/L	UBC27	05/11/1994	ND	50.0000	
Nickel	UG/L	UBC27	10/20/1994	ND	50.0000	
Nickel	UG/L	UBC27	04/20/1995	ND	50.0000	
Nickel	UG/L	UBC27	10/25/1995	ND	50.0000	
Nickel	UG/L	UBC27	04/23/1996	ND	50.0000	
Nickel	UG/L	UBC27	10/22/1996	ND	50.0000	
Nickel	UG/L	UBC27	04/22/1997	ND	50.0000	
Nickel	UG/L	UBC27	10/23/1997	ND	50.0000	
Nickel	UG/L	UBC27	04/21/1998	ND	50.0000	
Nickel	UG/L	UBC27	10/20/1998	ND	50.0000	
Nickel	UG/L	UBC27	04/21/1999	ND	50.0000	
Nickel	UG/L	UBC27	10/19/1999	ND	50.0000	
Nickel	UG/L	UBC27	04/19/2000	ND	50.0000	
Nickel	UG/L	UBC27	07/18/2000	ND	50.0000	
Nickel	UG/L	UBC27	10/18/2000	ND	50.0000	
Nickel	UG/L	UBC27	04/23/2001	ND	50.0000	
Nickel	UG/L	UBC27	10/22/2001	ND	50.0000	
Nickel	UG/L	UBC27	04/22/2002	ND	50.0000	
Nickel	UG/L	UBC27	10/24/2002	ND	50.0000	
Nickel	UG/L	UBC27	04/21/2003	ND	50.0000	
Nickel	UG/L	UBC27	10/23/2003	ND	50.0000	
Nickel	UG/L	UBC27	07/20/2004	ND	50.0000	
Nickel	UG/L	UBC27	07/28/2005	ND	50.0000	
Nickel	UG/L	UBC27	08/09/2006	ND	50.0000	
Nickel	UG/L	UBC27	08/10/2007	ND	50.0000	
Nickel	UG/L	UBC27	08/08/2008	ND	50.0000	
Nickel	UG/L	UBC27	07/31/2009	ND	50.0000	
Nickel	UG/L	UBC27	08/06/2010	ND	50.0000	
Nickel	UG/L	UBC27	08/08/2011	ND	50.0000	
Nickel	UG/L	UBC27	08/13/2012	ND	50.0000	
Nickel	UG/L	UBC27	08/08/2013	ND	50.0000	
Nickel	UG/L	UBC27	07/30/2014	ND	50.0000	
Nickel	UG/L	UBC27	08/17/2015	ND	50.0000	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	
Nickel	UG/L	UBC27	08/19/2016	ND	50.0000	
Nickel	UG/L	UBC27	07/27/2017	ND	40.0000	
Nickel	UG/L	UBC28AR	10/25/1995	ND	50.0000	
Nickel	UG/L	UBC28AR	04/18/1996	ND	50.0000	
Nickel	UG/L	UBC28AR	10/17/1996	ND	50.0000	
Nickel	UG/L	UBC28AR	04/22/1997	ND	50.0000	
Nickel	UG/L	UBC28AR	10/16/1997	ND	50.0000	
Nickel	UG/L	UBC28AR	04/21/1998	ND	50.0000	
Nickel	UG/L	UBC28AR	10/19/1998	ND	50.0000	
Nickel	UG/L	UBC28AR	04/21/1999	ND	50.0000	
Nickel	UG/L	UBC28AR	10/19/1999	ND	50.0000	
Nickel	UG/L	UBC28AR	04/19/2000	ND	50.0000	
Nickel	UG/L	UBC28AR	07/19/2000	ND	50.0000	
Nickel	UG/L	UBC28AR	10/18/2000	ND	50.0000	
Nickel	UG/L	UBC28AR	04/23/2001	ND	50.0000	
Nickel	UG/L	UBC28AR	10/22/2001	ND	50.0000	
Nickel	UG/L	UBC28AR	04/22/2002	ND	50.0000	
Nickel	UG/L	UBC28AR	10/24/2002	ND	50.0000	
Nickel	UG/L	UBC28AR	04/21/2003	ND	50.0000	
Nickel	UG/L	UBC28AR	10/23/2003	ND	50.0000	
Nickel	UG/L	UBC28AR	07/20/2004	ND	50.0000	
Nickel	UG/L	UBC28AR	07/28/2005	ND	50.0000	
Nickel	UG/L	UBC28AR	08/09/2006	ND	50.0000	
Nickel	UG/L	UBC28AR	08/10/2007	ND	50.0000	
Nickel	UG/L	UBC28AR	08/08/2008	ND	50.0000	
Nickel	UG/L	UBC28AR	07/31/2009	ND	50.0000	
Nickel	UG/L	UBC28AR	08/06/2010	ND	50.0000	
Nickel	UG/L	UBC28AR	08/05/2011	ND	50.0000	
Nickel	UG/L	UBC28AR	08/10/2012	ND	50.0000	
Nickel	UG/L	UBC28AR	08/08/2013	ND	50.0000	
Nickel	UG/L	UBC28AR	07/30/2014	ND	50.0000	
Nickel	UG/L	UBC28AR	08/14/2015	ND	50.0000	
Nickel	UG/L	UBC28AR	08/10/2016	ND	50.0000	
Nickel	UG/L	UBC28AR	07/27/2017	ND	40.0000	
pH	SU	MW1	01/30/1993		6.7000	
pH	SU	MW1	03/30/1993		6.7900	
pH	SU	MW1	05/30/1993		6.8100	
pH	SU	MW1	06/30/1993		6.7100	
pH	SU	MW1	07/30/1993		6.3900	
pH	SU	MW1	09/30/1993		6.3300	
pH	SU	MW1	11/30/1993		6.6000	
pH	SU	MW1	12/30/1993		7.0400	
pH	SU	MW1	02/25/1994		6.8100	
pH	SU	MW1	05/30/1994		7.9000	
pH	SU	MW1	07/19/1994		7.5000	
pH	SU	MW1	10/19/1994		6.5400	
pH	SU	MW1	01/16/1995		6.7100	
pH	SU	MW1	04/19/1995		7.6400	
pH	SU	MW1	10/24/1995		6.4800	
pH	SU	MW1	01/22/1996		6.6100	
pH	SU	MW1	04/22/1996		6.4400	
pH	SU	MW1	07/22/1996		6.4100	
pH	SU	MW1	10/21/1996		6.5800	
pH	SU	MW1	01/20/1997		6.0500	
pH	SU	MW1	04/21/1997		6.1900	
pH	SU	MW1	07/15/1997		6.0200	
pH	SU	MW1	10/16/1997		6.4500	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	
pH	SU	MW1	01/19/1998		5.9800	
pH	SU	MW1	04/20/1998		6.0900	
pH	SU	MW1	07/15/1998		7.1200	
pH	SU	MW1	10/19/1998		5.8000	
pH	SU	MW1	01/18/1999		6.2400	
pH	SU	MW1	04/20/1999		6.1000	
pH	SU	MW1	07/19/1999		6.1200	
pH	SU	MW1	10/18/1999		6.5900	
pH	SU	MW1	01/17/2000		6.2900	
pH	SU	MW1	04/18/2000		6.3500	
pH	SU	MW1	07/17/2000		6.3000	
pH	SU	MW1	10/17/2000		6.5800	
pH	SU	MW1	01/16/2001		6.3400	
pH	SU	MW1	04/18/2001		6.5200	
pH	SU	MW1	07/16/2001		6.4700	
pH	SU	MW1	10/17/2001		6.4500	
pH	SU	MW1	01/15/2002		6.6500	
pH	SU	MW1	04/16/2002		6.9000	
pH	SU	MW1	07/16/2002		6.2400	
pH	SU	MW1	10/22/2002		6.7500	
pH	SU	MW1	01/20/2003		6.5400	
pH	SU	MW1	04/16/2003		6.5000	
pH	SU	MW1	07/14/2003		6.5000	
pH	SU	MW1	10/21/2003		6.8000	
pH	SU	MW1	01/19/2004		6.7000	
pH	SU	MW1	01/26/2005		6.6000	
pH	SU	MW1	01/12/2006		6.6000	
pH	SU	MW1	02/07/2007		7.0000	
pH	SU	MW126T	11/08/1995		6.8200	
pH	SU	MW126T	02/29/1996		6.7900	
pH	SU	MW126T	04/23/1996		7.0400	
pH	SU	MW126T	07/22/1996		6.5200	
pH	SU	MW126T	10/21/1996		6.7400	
pH	SU	MW126T	01/20/1997		6.4900	
pH	SU	MW126T	04/23/1997		6.7400	
pH	SU	MW126T	07/15/1997		6.2800	
pH	SU	MW126T	10/16/1997		6.9200	
pH	SU	MW126T	01/19/1998		6.4100	
pH	SU	MW126T	04/16/1998		6.8900	
pH	SU	MW126T	07/16/1998		6.3600	
pH	SU	MW126T	10/15/1998		5.9400	
pH	SU	MW126T	01/18/1999		7.0500	
pH	SU	MW126T	04/21/1999		6.6400	
pH	SU	MW126T	07/19/1999		6.6100	
pH	SU	MW126T	10/20/1999		6.8900	
pH	SU	MW126T	01/17/2000		6.8800	
pH	SU	MW126T	04/19/2000		6.8500	
pH	SU	MW126T	07/17/2000		6.8700	
pH	SU	MW126T	10/18/2000		7.0800	
pH	SU	MW126T	01/18/2001		6.5900	
pH	SU	MW126T	04/19/2001		7.0000	
pH	SU	MW126T	07/16/2001		6.7100	
pH	SU	MW126T	10/18/2001		7.1200	
pH	SU	MW126T	01/17/2002		6.8600	
pH	SU	MW126T	04/18/2002		7.2100	
pH	SU	MW126T	07/17/2002		6.9800	
pH	SU	MW126T	10/24/2002		7.4500	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	
pH	SU	MW126T	01/20/2003		6.9800	
pH	SU	MW126T	04/21/2003		7.4900	
pH	SU	MW126T	07/16/2003		6.6900	
pH	SU	MW126T	10/23/2003		7.3600	
pH	SU	MW126T	01/19/2004		7.0000	
pH	SU	MW126T	01/26/2005		7.0000	
pH	SU	MW126T	01/16/2006		7.1000	
pH	SU	MW126T	02/09/2007		7.1000	
pH	SU	MW126T	02/22/2008		6.9000	
pH	SU	MW126T	02/06/2009		6.9000	
pH	SU	MW126T	02/10/2010		6.7000	
pH	SU	MW126T	02/17/2011		7.0000	
pH	SU	MW126T	03/09/2012		6.9800	
pH	SU	MW126T	02/15/2013		7.0600	
pH	SU	MW126T	02/06/2014		7.3800	
pH	SU	MW126T	02/05/2015		7.0200	
pH	SU	MW126T	02/10/2016		7.0200	
pH	SU	MW126T	02/02/2017		6.4900	
pH	SU	MW92SR	10/25/1995		7.0200	
pH	SU	MW92SR	01/17/1996		7.0400	
pH	SU	MW92SR	04/23/1996		6.9800	
pH	SU	MW92SR	07/18/1996		6.9000	
pH	SU	MW92SR	10/22/1996		6.8300	
pH	SU	MW92SR	01/20/1997		6.7400	
pH	SU	MW92SR	04/22/1997		6.9500	
pH	SU	MW92SR	07/16/1997		6.5400	
pH	SU	MW92SR	10/21/1997		6.4000	
pH	SU	MW92SR	01/21/1998		6.1600	
pH	SU	MW92SR	04/21/1998		6.4500	
pH	SU	MW92SR	07/16/1998		7.0800	
pH	SU	MW92SR	10/20/1998		6.1700	
pH	SU	MW92SR	01/19/1999		6.6400	
pH	SU	MW92SR	04/21/1999		6.3000	
pH	SU	MW92SR	07/20/1999		6.9300	
pH	SU	MW92SR	10/19/1999		7.0200	
pH	SU	MW92SR	01/18/2000		6.6500	
pH	SU	MW92SR	04/19/2000		6.6900	
pH	SU	MW92SR	07/18/2000		6.7300	
pH	SU	MW92SR	10/18/2000		7.1300	
pH	SU	MW92SR	01/17/2001		6.8400	
pH	SU	MW92SR	04/23/2001		6.9800	
pH	SU	MW92SR	07/17/2001		7.3000	
pH	SU	MW92SR	10/22/2001		7.0100	
pH	SU	MW92SR	01/16/2002		7.3000	
pH	SU	MW92SR	04/22/2002		7.0900	
pH	SU	MW92SR	07/17/2002		7.0800	
pH	SU	MW92SR	10/24/2002		7.2000	
pH	SU	MW92SR	01/20/2003		7.2400	
pH	SU	MW92SR	04/21/2003		7.4500	
pH	SU	MW92SR	07/16/2003		7.3000	
pH	SU	MW92SR	10/23/2003		7.2000	
pH	SU	MW92SR	01/20/2004		7.1000	
pH	SU	MW92SR	01/27/2005		7.2000	
pH	SU	MW92SR	01/13/2006		7.2000	
pH	SU	MW92SR	02/08/2007		7.6000	
pH	SU	MW92SR	02/21/2008		7.3000	
pH	SU	MW92SR	02/04/2009		7.4000	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	
pH	SU	MW92SR	02/08/2010		7.3000	
pH	SU	MW92SR	02/15/2011		7.2000	
pH	SU	MW92SR	03/08/2012		7.9100	
pH	SU	MW92SR	02/14/2013		7.4800	
pH	SU	MW92SR	02/06/2014		7.1500	
pH	SU	MW92SR	02/04/2015		7.2800	
pH	SU	MW92SR	01/29/2016		6.9100	
pH	SU	MW92SR	01/27/2017		6.8600	
pH	SU	MW93PR	07/25/1995		7.0300	
pH	SU	MW93PR	10/25/1995		7.0800	
pH	SU	MW93PR	01/17/1996		7.1100	
pH	SU	MW93PR	04/23/1996		7.0900	
pH	SU	MW93PR	07/18/1996		7.0000	
pH	SU	MW93PR	10/22/1996		6.9000	
pH	SU	MW93PR	01/20/1997		6.5500	
pH	SU	MW93PR	04/22/1997		6.9600	
pH	SU	MW93PR	07/16/1997		6.8300	
pH	SU	MW93PR	10/23/1997		6.5000	
pH	SU	MW93PR	01/21/1998		6.2200	
pH	SU	MW93PR	04/21/1998		6.3900	
pH	SU	MW93PR	07/16/1998		7.1000	
pH	SU	MW93PR	10/20/1998		6.5800	
pH	SU	MW93PR	01/19/1999		6.7400	
pH	SU	MW93PR	04/21/1999		6.6000	
pH	SU	MW93PR	07/20/1999		6.9900	
pH	SU	MW93PR	10/19/1999		7.2000	
pH	SU	MW93PR	01/18/2000		6.8400	
pH	SU	MW93PR	04/19/2000		6.8900	
pH	SU	MW93PR	07/18/2000		6.6500	
pH	SU	MW93PR	10/18/2000		7.1600	
pH	SU	MW93PR	01/17/2001		6.8000	
pH	SU	MW93PR	04/23/2001		7.1200	
pH	SU	MW93PR	07/17/2001		7.0200	
pH	SU	MW93PR	10/22/2001		6.9800	
pH	SU	MW93PR	01/16/2002		7.5600	
pH	SU	MW93PR	04/22/2002		7.1900	
pH	SU	MW93PR	07/17/2002		7.0600	
pH	SU	MW93PR	10/24/2002		7.1600	
pH	SU	MW93PR	01/20/2003		7.1100	
pH	SU	MW93PR	04/21/2003		7.4400	
pH	SU	MW93PR	07/16/2003		7.2300	
pH	SU	MW93PR	10/23/2003		7.2000	
pH	SU	MW93PR	04/20/2004		6.9000	
pH	SU	MW93PR	04/29/2005		7.1000	
pH	SU	MW93PR	05/11/2006		7.1000	
pH	SU	MW93PR	05/02/2007		7.2000	
pH	SU	MW93PR	04/30/2008		7.4000	
pH	SU	MW93PR	05/06/2009		7.1000	
pH	SU	MW93PR	05/12/2010		6.9000	
pH	SU	MW93PR	05/12/2011		7.1000	
pH	SU	MW93PR	05/11/2012		7.2100	
pH	SU	MW93PR	05/09/2013		7.2700	
pH	SU	MW93PR	04/30/2014		7.4600	
pH	SU	MW93PR	05/06/2015		7.0100	
pH	SU	MW93PR	05/03/2016		7.2700	
pH	SU	MW93PR	04/27/2017		7.2000	
pH	SU	MW94PR	07/26/1995		6.6300	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	
pH	SU	MW94PR	10/25/1995		7.3600	
pH	SU	MW94PR	01/17/1996		7.5100	
pH	SU	MW94PR	04/23/1996		7.7900	
pH	SU	MW94PR	07/18/1996		8.1500	
pH	SU	MW94PR	10/22/1996		7.7100	
pH	SU	MW94PR	01/20/1997		8.2400	
pH	SU	MW94PR	04/23/1997		7.3300	
pH	SU	MW94PR	07/15/1997		7.3800	
pH	SU	MW94PR	10/21/1997		7.2000	
pH	SU	MW94PR	01/15/1998		6.9500	
pH	SU	MW94PR	04/22/1998		6.6000	
pH	SU	MW94PR	07/16/1998		7.3100	
pH	SU	MW94PR	10/21/1998		6.7000	
pH	SU	MW94PR	01/18/1999		7.4600	
pH	SU	MW94PR	04/21/1999		6.6400	
pH	SU	MW94PR	07/19/1999		6.7800	
pH	SU	MW94PR	10/19/1999		7.8900	
pH	SU	MW94PR	01/17/2000		7.4000	
pH	SU	MW94PR	04/19/2000		7.0400	
pH	SU	MW94PR	07/17/2000		7.3100	
pH	SU	MW94PR	10/18/2000		7.8800	
pH	SU	MW94PR	01/18/2001		7.3000	
pH	SU	MW94PR	04/19/2001		7.6500	
pH	SU	MW94PR	07/16/2001		7.4700	
pH	SU	MW94PR	10/18/2001		7.1900	
pH	SU	MW94PR	01/17/2002		7.4400	
pH	SU	MW94PR	04/18/2002		7.5600	
pH	SU	MW94PR	07/17/2002		6.9500	
pH	SU	MW94PR	10/24/2002		7.9600	
pH	SU	MW94PR	01/20/2003		7.6900	
pH	SU	MW94PR	04/21/2003		7.7200	
pH	SU	MW94PR	07/16/2003		7.2100	
pH	SU	MW94PR	10/23/2003		8.0400	
pH	SU	MW94PR	04/20/2004		7.5000	
pH	SU	MW94PR	04/29/2005		7.6000	
pH	SU	MW94PR	05/11/2006		7.6000	
pH	SU	MW94PR	05/03/2007		7.8000	
pH	SU	MW94PR	05/01/2008		7.8000	
pH	SU	MW94PR	05/07/2009		7.5000	
pH	SU	MW94PR	05/14/2010		7.1000	
pH	SU	MW94PR	05/13/2011		7.7000	
pH	SU	MW94PR	05/11/2012		7.6400	
pH	SU	MW94PR	05/09/2013		7.3300	
pH	SU	MW94PR	04/30/2014		7.6500	
pH	SU	MW94PR	05/06/2015		7.5400	
pH	SU	MW94PR	05/03/2016		7.3200	
pH	SU	MW94PR	04/28/2017		6.8500	
pH	SU	MW95P	02/28/1993		9.9100	
pH	SU	MW95P	04/30/1993		10.1700	
pH	SU	MW95P	08/30/1993		9.6900	
pH	SU	MW95P	10/30/1993		7.1200	
pH	SU	MW95P	02/25/1994		10.6100	
pH	SU	MW95P	05/30/1994		7.5800	
pH	SU	MW95P	07/20/1994		8.1400	
pH	SU	MW95P	10/20/1994		7.2000	
pH	SU	MW95P	01/17/1995		7.3300	
pH	SU	MW95P	04/24/1995		7.3100	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	
pH	SU	MW95P	07/25/1995		6.9600	
pH	SU	MW95P	10/23/1995		7.1000	
pH	SU	MW95P	01/23/1996		7.5800	
pH	SU	MW95P	04/15/1996		7.1200	
pH	SU	MW95P	07/18/1996		7.7100	
pH	SU	MW95P	10/22/1996		7.6800	
pH	SU	MW95P	01/20/1997		6.9200	
pH	SU	MW95P	04/22/1997		7.0100	
pH	SU	MW95P	07/16/1997		6.5800	
pH	SU	MW95P	10/16/1997		7.0200	
pH	SU	MW95P	01/15/1998		6.3000	
pH	SU	MW95P	04/21/1998		6.8200	
pH	SU	MW95P	07/16/1998		7.2300	
pH	SU	MW95P	10/19/1998		6.3000	
pH	SU	MW95P	01/19/1999		7.0200	
pH	SU	MW95P	04/21/1999		6.3800	
pH	SU	MW95P	07/20/1999		7.1400	
pH	SU	MW95P	10/19/1999		6.9200	
pH	SU	MW95P	01/18/2000		6.4600	
pH	SU	MW95P	04/19/2000		6.7500	
pH	SU	MW95P	07/18/2000		6.9600	
pH	SU	MW95P	10/18/2000		6.6000	
pH	SU	MW95P	01/17/2001		6.9600	
pH	SU	MW95P	04/23/2001		6.8000	
pH	SU	MW95P	07/17/2001		7.4900	
pH	SU	MW95P	10/22/2001		7.2000	
pH	SU	MW95P	01/16/2002		6.7600	
pH	SU	MW95P	04/22/2002		7.1700	
pH	SU	MW95P	07/17/2002		6.8000	
pH	SU	MW95P	10/24/2002		7.3200	
pH	SU	MW95P	01/20/2003		7.1200	
pH	SU	MW95P	04/21/2003		7.4600	
pH	SU	MW95P	07/16/2003		7.0400	
pH	SU	MW95P	10/23/2003		7.6000	
pH	SU	MW95P	04/20/2004		7.2000	
pH	SU	MW95P	04/29/2005		7.8000	
pH	SU	MW95P	05/11/2006		7.1000	
pH	SU	MW95P	05/02/2007		7.4000	
pH	SU	MW95P	04/30/2008		7.4000	
pH	SU	MW95P	05/06/2009		8.5000	
pH	SU	MW95P	05/12/2010		6.6000	
pH	SU	MW95P	05/11/2011		7.9000	
pH	SU	MW95P	05/11/2012		6.9700	
pH	SU	MW95P	05/09/2013		7.1400	
pH	SU	MW95P	04/23/2014		6.8700	
pH	SU	MW95P	04/30/2015		7.3800	
pH	SU	MW95P	04/28/2016		6.9800	
pH	SU	MW95P	04/20/2017		6.9400	
pH	SU	MW96T	08/30/1993		6.8700	
pH	SU	MW96T	10/30/1993		7.2100	
pH	SU	MW96T	01/28/1994		7.2900	
pH	SU	MW96T	04/29/1994		7.1700	
pH	SU	MW96T	07/19/1994		9.3000	
pH	SU	MW96T	10/20/1994		7.5800	
pH	SU	MW96T	01/17/1995		7.3500	
pH	SU	MW96T	04/24/1995		8.2700	
pH	SU	MW96T	07/25/1995		7.1900	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	
pH	SU	MW96T	10/11/1995		7.0800	
pH	SU	MW96T	01/17/1996		7.1200	
pH	SU	MW96T	04/18/1996		7.2100	
pH	SU	MW96T	07/18/1996		7.0600	
pH	SU	MW96T	10/22/1996		7.2200	
pH	SU	MW96T	01/21/1997		6.8700	
pH	SU	MW96T	04/22/1997		7.0800	
pH	SU	MW96T	07/15/1997		6.8900	
pH	SU	MW96T	10/21/1997		6.6300	
pH	SU	MW96T	01/15/1998		6.4700	
pH	SU	MW96T	04/22/1998		7.0400	
pH	SU	MW96T	07/16/1998		7.4600	
pH	SU	MW96T	10/20/1998		6.7700	
pH	SU	MW96T	01/20/1999		7.1000	
pH	SU	MW96T	04/21/1999		6.8000	
pH	SU	MW96T	07/20/1999		7.0600	
pH	SU	MW96T	10/19/1999		7.2800	
pH	SU	MW96T	01/19/2000		7.0800	
pH	SU	MW96T	04/19/2000		6.6300	
pH	SU	MW96T	07/19/2000		6.6200	
pH	SU	MW96T	10/18/2000		7.1600	
pH	SU	MW96T	01/17/2001		6.8900	
pH	SU	MW96T	04/19/2001		7.1200	
pH	SU	MW96T	07/18/2001		7.4600	
pH	SU	MW96T	10/18/2001		7.2600	
pH	SU	MW96T	01/16/2002		7.1800	
pH	SU	MW96T	04/18/2002		7.0300	
pH	SU	MW96T	07/18/2002		7.1200	
pH	SU	MW96T	10/24/2002		7.6900	
pH	SU	MW96T	01/21/2003		7.2000	
pH	SU	MW96T	04/21/2003		7.6100	
pH	SU	MW96T	07/16/2003		8.1700	
pH	SU	MW96T	10/23/2003		8.8300	
pH	SU	MW96T	01/20/2004		7.5000	
pH	SU	MW96T	01/27/2005		7.5000	
pH	SU	MW96T	01/17/2006		7.5000	
pH	SU	MW96T	02/08/2007		7.7000	
pH	SU	MW96T	02/22/2008		7.2000	
pH	SU	MW96T	02/06/2009		7.1000	
pH	SU	MW96T	02/09/2010		7.4000	
pH	SU	MW96T	02/17/2011		7.4000	
pH	SU	MW96T	03/09/2012		7.4400	
pH	SU	MW96T	02/19/2013		6.8600	
pH	SU	MW96T	02/07/2014		7.0900	
pH	SU	MW96T	02/04/2015		7.6200	
pH	SU	MW96T	02/10/2016		9.1700	
pH	SU	MW96T	02/01/2017		7.7500	
pH	SU	MW97T	04/30/1993		6.8200	
pH	SU	MW97T	08/30/1993		6.9500	
pH	SU	MW97T	10/30/1993		6.7500	
pH	SU	MW97T	02/25/1994		7.2500	
pH	SU	MW97T	05/30/1994		7.2100	
pH	SU	MW97T	07/20/1994		9.1300	
pH	SU	MW97T	10/24/1994		7.5000	
pH	SU	MW97T	01/17/1995		7.2100	
pH	SU	MW97T	04/07/1995		6.5700	
pH	SU	MW97T	07/25/1995		6.7400	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	
pH	SU	MW98TR	07/25/1995		7.8500	
pH	SU	MW98TR	10/25/1995		8.7600	
pH	SU	MW98TR	01/17/1996		7.6300	
pH	SU	MW98TR	04/23/1996		7.3700	
pH	SU	MW98TR	07/18/1996		7.6700	
pH	SU	MW98TR	10/22/1996		7.5700	
pH	SU	MW98TR	01/21/1997		7.1000	
pH	SU	MW98TR	04/22/1997		7.3200	
pH	SU	MW98TR	07/15/1997		7.5000	
pH	SU	MW98TR	10/21/1997		7.0000	
pH	SU	MW98TR	01/20/1998		7.0600	
pH	SU	MW98TR	07/16/1998		7.4900	
pH	SU	MW98TR	10/20/1998		6.9800	
pH	SU	MW98TR	01/20/1999		7.3400	
pH	SU	MW98TR	04/21/1999		6.8200	
pH	SU	MW98TR	07/20/1999		7.4600	
pH	SU	MW98TR	10/19/1999		8.0700	
pH	SU	MW98TR	01/19/2000		7.5300	
pH	SU	MW98TR	04/19/2000		7.3400	
pH	SU	MW98TR	07/19/2000		7.5000	
pH	SU	MW98TR	10/18/2000		8.0500	
pH	SU	MW98TR	01/17/2001		7.6600	
pH	SU	MW98TR	04/19/2001		7.9800	
pH	SU	MW98TR	07/18/2001		7.7400	
pH	SU	MW98TR	10/18/2001		7.5300	
pH	SU	MW98TR	01/16/2002		8.0000	
pH	SU	MW98TR	04/18/2002		7.6500	
pH	SU	MW98TR	07/18/2002		7.3500	
pH	SU	MW98TR	10/24/2002		7.9000	
pH	SU	MW98TR	01/21/2003		7.6200	
pH	SU	MW98TR	04/21/2003		7.7900	
pH	SU	MW98TR	07/16/2003		7.2000	
pH	SU	MW98TR	10/23/2003		7.7200	
pH	SU	MW98TR	01/20/2004		7.8000	
pH	SU	MW98TR	01/27/2005		8.0000	
pH	SU	MW98TR	01/17/2006		8.0000	
pH	SU	MW98TR	02/08/2007		8.3000	
pH	SU	MW98TR	02/22/2008		7.7000	
pH	SU	MW98TR	02/06/2009		7.8000	
pH	SU	MW98TR	02/09/2010		7.7000	
pH	SU	MW98TR	02/17/2011		8.0000	
pH	SU	MW98TR	03/09/2012		8.0100	
pH	SU	MW98TR	02/15/2013		7.4600	
pH	SU	MW98TR	02/06/2014		7.5700	
pH	SU	MW98TR	02/04/2015		7.6000	
pH	SU	MW98TR	02/10/2016		7.8300	
pH	SU	MW98TR	02/01/2017		7.3300	
pH	SU	PSDL17A	01/30/1993		7.2000	
pH	SU	PSDL17A	03/30/1993		7.3900	
pH	SU	PSDL17A	05/30/1993		8.0000	
pH	SU	PSDL17A	06/30/1993		6.7000	
pH	SU	PSDL17A	07/30/1993		6.3700	
pH	SU	PSDL17A	09/30/1993		6.7000	
pH	SU	PSDL17A	11/30/1993		6.9300	
pH	SU	PSDL17A	12/30/1993		7.1000	
pH	SU	PSDL17A	02/25/1994		6.8300	
pH	SU	PSDL17A	05/30/1994		9.0700	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	
pH	SU	PSDL17A	07/06/1994		7.1800	
pH	SU	PSDL17A	10/20/1994		7.4200	
pH	SU	PSDL17A	01/09/1995		7.2300	
pH	SU	PSDL17A	04/07/1995		7.2000	
pH	SU	PSDL17A	07/17/1995		8.7100	
pH	SU	PSDL17A	10/11/1995		9.0000	
pH	SU	PSDL17A	01/16/1996		7.2500	
pH	SU	PSDL17A	04/10/1996		6.8600	
pH	SU	PSDL17A	07/18/1996		6.6300	
pH	SU	PSDL17A	10/22/1996		6.8200	
pH	SU	PSDL17A	01/20/1997		6.7400	
pH	SU	PSDL17A	04/22/1997		6.6000	
pH	SU	PSDL17A	07/16/1997		6.6000	
pH	SU	PSDL17A	10/16/1997		6.6500	
pH	SU	PSDL17A	01/20/1998		6.1000	
pH	SU	PSDL17A	04/22/1998		6.1000	
pH	SU	PSDL17A	07/16/1998		6.9800	
pH	SU	PSDL17A	10/19/1998		5.9800	
pH	SU	PSDL17A	01/19/1999		6.6200	
pH	SU	PSDL17A	04/20/1999		6.7200	
pH	SU	PSDL17A	07/20/1999		6.7000	
pH	SU	PSDL17A	10/18/1999		6.6400	
pH	SU	PSDL17A	01/18/2000		6.4100	
pH	SU	PSDL17A	04/18/2000		6.4200	
pH	SU	PSDL17A	07/18/2000		6.4400	
pH	SU	PSDL17A	10/17/2000		6.7400	
pH	SU	PSDL17A	01/16/2001		6.2400	
pH	SU	PSDL17A	04/18/2001		6.7100	
pH	SU	PSDL17A	07/17/2001		7.1200	
pH	SU	PSDL17A	10/17/2001		6.7600	
pH	SU	PSDL17A	01/16/2002		6.4600	
pH	SU	PSDL17A	04/16/2002		6.9100	
pH	SU	PSDL17A	07/17/2002		6.8800	
pH	SU	PSDL17A	10/22/2002		7.0100	
pH	SU	PSDL17A	01/20/2003		6.5700	
pH	SU	PSDL17A	04/21/2003		6.8500	
pH	SU	PSDL17A	07/15/2003		6.8900	
pH	SU	PSDL17A	10/23/2003		7.0000	
pH	SU	PSDL17A	01/19/2004		7.0000	
pH	SU	PSDL17A	01/26/2005		7.2000	
pH	SU	PSDL17A	01/13/2006		8.5000	
pH	SU	PSDL17A	02/07/2007		8.6000	
pH	SU	PSDL17A	02/21/2008		6.9000	
pH	SU	PSDL17A	02/05/2009		7.0000	
pH	SU	PSDL17A	02/09/2010		7.4000	
pH	SU	PSDL17A	02/15/2011		7.1000	
pH	SU	PSDL17A	03/08/2012		6.8200	
pH	SU	PSDL17A	02/14/2013		6.9800	
pH	SU	PSDL17A	02/06/2014		6.6200	
pH	SU	PSDL17A	02/04/2015		6.7700	
pH	SU	PSDL17A	02/05/2016		6.8400	
pH	SU	PSDL17A	01/31/2017		6.4900	
pH	SU	UBC25	04/30/1993		10.5100	
pH	SU	UBC25	08/30/1993		9.3300	
pH	SU	UBC25	10/30/1993		8.5700	
pH	SU	UBC25	02/25/1994		8.2600	
pH	SU	UBC25	05/30/1994		8.0400	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	
pH	SU	UBC25	10/20/1994		7.3800	
pH	SU	UBC25	04/20/1995		7.4300	
pH	SU	UBC25	10/25/1995		7.1900	
pH	SU	UBC25	04/23/1996		7.1200	
pH	SU	UBC25	10/22/1996		6.8400	
pH	SU	UBC25	04/22/1997		6.9300	
pH	SU	UBC25	10/21/1997		6.7800	
pH	SU	UBC25	04/21/1998		6.3300	
pH	SU	UBC25	10/20/1998		6.3000	
pH	SU	UBC25	04/21/1999		6.4800	
pH	SU	UBC25	10/19/1999		6.9900	
pH	SU	UBC25	04/19/2000		6.6500	
pH	SU	UBC25	07/19/2000		6.7500	
pH	SU	UBC25	10/18/2000		7.0300	
pH	SU	UBC25	04/23/2001		6.8700	
pH	SU	UBC25	10/22/2001		6.9000	
pH	SU	UBC25	10/24/2002		7.4800	
pH	SU	UBC25	04/21/2003		7.3200	
pH	SU	UBC25	10/23/2003		7.2300	
pH	SU	UBC25	07/20/2004		7.0000	
pH	SU	UBC25	07/28/2005		6.8000	
pH	SU	UBC25	08/09/2006		7.2000	
pH	SU	UBC25	08/10/2007		6.9000	
pH	SU	UBC25	08/08/2008		6.9000	
pH	SU	UBC25	07/31/2009		6.7000	
pH	SU	UBC25	08/06/2010		6.9000	
pH	SU	UBC25	08/08/2011		7.0000	
pH	SU	UBC25	08/13/2012		6.6500	
pH	SU	UBC25	08/08/2013		6.7500	
pH	SU	UBC25	07/30/2014		6.3200	
pH	SU	UBC25	08/17/2015		6.9900	
pH	SU	UBC25	08/19/2016		6.5400	
pH	SU	UBC25	07/27/2017		7.2300	
pH	SU	UBC27	04/30/1993		9.1800	
pH	SU	UBC27	08/30/1993		7.8700	
pH	SU	UBC27	10/30/1993		7.5800	
pH	SU	UBC27	02/25/1994		7.4300	
pH	SU	UBC27	05/30/1994		7.0800	
pH	SU	UBC27	10/20/1994		7.4700	
pH	SU	UBC27	04/20/1995		7.2100	
pH	SU	UBC27	10/25/1995		6.9800	
pH	SU	UBC27	04/23/1996		6.9800	
pH	SU	UBC27	10/22/1996		6.8700	
pH	SU	UBC27	04/22/1997		6.9500	
pH	SU	UBC27	10/23/1997		6.4400	
pH	SU	UBC27	04/21/1998		6.2500	
pH	SU	UBC27	10/20/1998		6.2400	
pH	SU	UBC27	04/21/1999		6.3800	
pH	SU	UBC27	10/19/1999		7.0800	
pH	SU	UBC27	04/19/2000		6.8500	
pH	SU	UBC27	07/18/2000		6.5800	
pH	SU	UBC27	10/18/2000		6.9500	
pH	SU	UBC27	04/23/2001		6.9400	
pH	SU	UBC27	10/22/2001		6.9300	
pH	SU	UBC27	04/22/2002		7.1600	
pH	SU	UBC27	10/24/2002		7.1900	
pH	SU	UBC27	04/21/2003		7.3000	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result
pH	SU	UBC27	10/23/2003		7.0900
pH	SU	UBC27	07/20/2004		7.0000
pH	SU	UBC27	07/28/2005		6.9000
pH	SU	UBC27	08/09/2006		7.3000
pH	SU	UBC27	08/10/2007		6.8000
pH	SU	UBC27	08/08/2008		6.9000
pH	SU	UBC27	07/31/2009		6.6000
pH	SU	UBC27	08/06/2010		6.9000
pH	SU	UBC27	08/08/2011		6.9000
pH	SU	UBC27	08/13/2012		6.2200
pH	SU	UBC27	08/08/2013		6.6300
pH	SU	UBC27	07/30/2014		6.3000
pH	SU	UBC27	08/17/2015		6.9800
pH	SU	UBC27	08/19/2016		6.6100
pH	SU	UBC27	07/27/2017		7.2800
pH	SU	UBC28AR	10/25/1995		7.0900
pH	SU	UBC28AR	04/18/1996		7.0200
pH	SU	UBC28AR	10/17/1996		6.6300
pH	SU	UBC28AR	04/22/1997		7.1200
pH	SU	UBC28AR	10/16/1997		6.9500
pH	SU	UBC28AR	04/21/1998		6.7900
pH	SU	UBC28AR	10/19/1998		6.2800
pH	SU	UBC28AR	04/21/1999		6.3600
pH	SU	UBC28AR	10/19/1999		7.0700
pH	SU	UBC28AR	04/19/2000		6.7000
pH	SU	UBC28AR	07/19/2000		7.0500
pH	SU	UBC28AR	10/18/2000		6.9700
pH	SU	UBC28AR	04/23/2001		6.8900
pH	SU	UBC28AR	10/22/2001		6.8100
pH	SU	UBC28AR	04/22/2002		6.9500
pH	SU	UBC28AR	10/24/2002		7.2300
pH	SU	UBC28AR	04/21/2003		7.2700
pH	SU	UBC28AR	10/23/2003		6.9700
pH	SU	UBC28AR	07/20/2004		7.2000
pH	SU	UBC28AR	07/28/2005		6.8000
pH	SU	UBC28AR	08/09/2006		7.1000
pH	SU	UBC28AR	08/10/2007		6.7000
pH	SU	UBC28AR	08/08/2008		6.7000
pH	SU	UBC28AR	07/31/2009		7.2000
pH	SU	UBC28AR	08/06/2010		7.1000
pH	SU	UBC28AR	08/05/2011		6.9000
pH	SU	UBC28AR	08/10/2012		6.7700
pH	SU	UBC28AR	08/08/2013		6.9900
pH	SU	UBC28AR	07/30/2014		6.8400
pH	SU	UBC28AR	08/14/2015		7.6700
pH	SU	UBC28AR	08/10/2016		6.6900
pH	SU	UBC28AR	07/27/2017		7.0300
Zinc	UG/L	MW1	01/11/1993	ND	20.0000
Zinc	UG/L	MW1	03/04/1993		38.0000
Zinc	UG/L	MW1	05/03/1993	ND	20.0000
Zinc	UG/L	MW1	06/03/1993		20.0000
Zinc	UG/L	MW1	07/06/1993		21.0000
Zinc	UG/L	MW1	09/07/1993		363.0000
Zinc	UG/L	MW1	11/04/1993	ND	20.0000
Zinc	UG/L	MW1	12/06/1993		43.0000
Zinc	UG/L	MW1	02/14/1994	ND	20.0000
Zinc	UG/L	MW1	05/11/1994		51.0000

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result
Zinc	UG/L	MW1	07/19/1994	ND	20.0000
Zinc	UG/L	MW1	10/19/1994	ND	20.0000
Zinc	UG/L	MW1	01/16/1995	ND	20.0000
Zinc	UG/L	MW1	04/19/1995	ND	20.0000
Zinc	UG/L	MW1	07/24/1995	ND	20.0000
Zinc	UG/L	MW1	10/24/1995	ND	20.0000
Zinc	UG/L	MW1	01/22/1996	ND	20.0000
Zinc	UG/L	MW1	04/22/1996	ND	20.0000
Zinc	UG/L	MW1	07/22/1996	ND	20.0000
Zinc	UG/L	MW1	10/21/1996	ND	20.0000
Zinc	UG/L	MW1	01/20/1997	ND	20.0000
Zinc	UG/L	MW1	04/21/1997	ND	20.0000
Zinc	UG/L	MW1	07/15/1997	ND	20.0000
Zinc	UG/L	MW1	10/16/1997	ND	20.0000
Zinc	UG/L	MW1	01/19/1998	ND	20.0000
Zinc	UG/L	MW1	04/20/1998	ND	20.0000
Zinc	UG/L	MW1	07/15/1998	ND	20.0000
Zinc	UG/L	MW1	10/19/1998	ND	20.0000
Zinc	UG/L	MW1	01/18/1999	ND	20.0000
Zinc	UG/L	MW1	04/20/1999	ND	20.0000
Zinc	UG/L	MW1	07/19/1999	ND	20.0000
Zinc	UG/L	MW1	10/18/1999	ND	20.0000
Zinc	UG/L	MW1	01/17/2000	ND	20.0000
Zinc	UG/L	MW1	04/18/2000	ND	20.0000
Zinc	UG/L	MW1	07/17/2000	ND	20.0000
Zinc	UG/L	MW1	10/17/2000	ND	20.0000
Zinc	UG/L	MW1	01/16/2001	ND	20.0000
Zinc	UG/L	MW1	04/18/2001	ND	20.0000
Zinc	UG/L	MW1	07/16/2001	ND	20.0000
Zinc	UG/L	MW1	10/17/2001	ND	20.0000
Zinc	UG/L	MW1	01/15/2002	ND	20.0000
Zinc	UG/L	MW1	04/16/2002	ND	20.0000
Zinc	UG/L	MW1	07/16/2002	ND	20.0000
Zinc	UG/L	MW1	10/22/2002	ND	20.0000
Zinc	UG/L	MW1	01/20/2003	ND	20.0000
Zinc	UG/L	MW1	04/16/2003	ND	20.0000
Zinc	UG/L	MW1	07/14/2003	ND	20.0000
Zinc	UG/L	MW1	10/21/2003	ND	20.0000
Zinc	UG/L	MW1	01/19/2004	ND	20.0000
Zinc	UG/L	MW1	01/26/2005	ND	20.0000
Zinc	UG/L	MW1	01/12/2006	ND	20.0000
Zinc	UG/L	MW1	02/07/2007	ND	20.0000
Zinc	UG/L	MW126T	11/08/1995	ND	20.0000
Zinc	UG/L	MW126T	02/29/1996	ND	20.0000
Zinc	UG/L	MW126T	04/23/1996	ND	20.0000
Zinc	UG/L	MW126T	07/22/1996	ND	20.0000
Zinc	UG/L	MW126T	10/21/1996	ND	20.0000
Zinc	UG/L	MW126T	01/20/1997	ND	20.0000
Zinc	UG/L	MW126T	04/23/1997	ND	20.0000
Zinc	UG/L	MW126T	07/15/1997	ND	20.0000
Zinc	UG/L	MW126T	10/16/1997	ND	20.0000
Zinc	UG/L	MW126T	01/19/1998	ND	20.0000
Zinc	UG/L	MW126T	04/16/1998	ND	20.0000
Zinc	UG/L	MW126T	07/16/1998	ND	20.0000
Zinc	UG/L	MW126T	10/15/1998	ND	20.0000
Zinc	UG/L	MW126T	01/18/1999	ND	20.0000
Zinc	UG/L	MW126T	04/21/1999	ND	20.0000

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	
Zinc	UG/L	MW126T	07/19/1999	ND	20.0000	
Zinc	UG/L	MW126T	10/20/1999	ND	20.0000	
Zinc	UG/L	MW126T	01/17/2000	ND	20.0000	
Zinc	UG/L	MW126T	04/19/2000	ND	20.0000	
Zinc	UG/L	MW126T	07/17/2000	ND	20.0000	
Zinc	UG/L	MW126T	10/18/2000	ND	20.0000	
Zinc	UG/L	MW126T	01/18/2001	ND	20.0000	
Zinc	UG/L	MW126T	04/19/2001	ND	20.0000	
Zinc	UG/L	MW126T	07/16/2001	ND	20.0000	
Zinc	UG/L	MW126T	10/18/2001	ND	20.0000	
Zinc	UG/L	MW126T	01/17/2002	ND	20.0000	
Zinc	UG/L	MW126T	04/18/2002	ND	20.0000	
Zinc	UG/L	MW126T	07/17/2002	ND	20.0000	
Zinc	UG/L	MW126T	10/24/2002	ND	20.0000	
Zinc	UG/L	MW126T	01/20/2003	ND	20.0000	
Zinc	UG/L	MW126T	04/21/2003	ND	20.0000	
Zinc	UG/L	MW126T	07/16/2003	ND	20.0000	
Zinc	UG/L	MW126T	10/23/2003	ND	20.0000	
Zinc	UG/L	MW126T	01/19/2004	ND	20.0000	
Zinc	UG/L	MW126T	01/26/2005	ND	20.0000	
Zinc	UG/L	MW126T	01/16/2006	ND	20.0000	
Zinc	UG/L	MW126T	02/09/2007	ND	20.0000	
Zinc	UG/L	MW126T	02/22/2008	ND	20.0000	
Zinc	UG/L	MW126T	02/06/2009	ND	20.0000	
Zinc	UG/L	MW126T	02/10/2010	ND	10.0000	
Zinc	UG/L	MW126T	02/17/2011	ND	20.0000	
Zinc	UG/L	MW126T	03/09/2012	ND	20.0000	
Zinc	UG/L	MW126T	02/15/2013	ND	20.0000	
Zinc	UG/L	MW126T	02/06/2014	ND	20.0000	
Zinc	UG/L	MW126T	02/05/2015	ND	20.0000	
Zinc	UG/L	MW126T	02/10/2016	ND	20.0000	
Zinc	UG/L	MW126T	02/02/2017	ND	20.0000	
Zinc	UG/L	MW92SR	07/25/1995	ND	20.0000	
Zinc	UG/L	MW92SR	10/25/1995	ND	20.0000	
Zinc	UG/L	MW92SR	01/17/1996	ND	20.0000	
Zinc	UG/L	MW92SR	04/23/1996	ND	20.0000	
Zinc	UG/L	MW92SR	07/18/1996	ND	20.0000	
Zinc	UG/L	MW92SR	10/22/1996	ND	20.0000	
Zinc	UG/L	MW92SR	01/20/1997	ND	20.0000	
Zinc	UG/L	MW92SR	04/22/1997	ND	20.0000	
Zinc	UG/L	MW92SR	07/16/1997	ND	20.0000	
Zinc	UG/L	MW92SR	10/21/1997	ND	20.0000	
Zinc	UG/L	MW92SR	01/21/1998	ND	20.0000	
Zinc	UG/L	MW92SR	04/21/1998	ND	20.0000	
Zinc	UG/L	MW92SR	07/16/1998	ND	20.0000	
Zinc	UG/L	MW92SR	10/20/1998	ND	20.0000	
Zinc	UG/L	MW92SR	01/19/1999	ND	20.0000	
Zinc	UG/L	MW92SR	04/21/1999	ND	20.0000	
Zinc	UG/L	MW92SR	07/20/1999	ND	20.0000	
Zinc	UG/L	MW92SR	10/19/1999	ND	20.0000	
Zinc	UG/L	MW92SR	01/18/2000		20.3000	
Zinc	UG/L	MW92SR	04/19/2000	ND	20.0000	
Zinc	UG/L	MW92SR	07/18/2000	ND	20.0000	
Zinc	UG/L	MW92SR	10/18/2000	ND	20.0000	
Zinc	UG/L	MW92SR	01/17/2001	ND	20.0000	
Zinc	UG/L	MW92SR	04/23/2001	ND	20.0000	
Zinc	UG/L	MW92SR	07/17/2001	ND	20.0000	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result
Zinc	UG/L	MW92SR	10/22/2001	ND	20.0000
Zinc	UG/L	MW92SR	01/16/2002	ND	20.0000
Zinc	UG/L	MW92SR	04/22/2002	ND	20.0000
Zinc	UG/L	MW92SR	07/17/2002	ND	20.0000
Zinc	UG/L	MW92SR	10/24/2002	ND	20.0000
Zinc	UG/L	MW92SR	01/20/2003	ND	20.0000
Zinc	UG/L	MW92SR	04/21/2003	ND	20.0000
Zinc	UG/L	MW92SR	07/16/2003	ND	20.0000
Zinc	UG/L	MW92SR	10/23/2003	ND	20.0000
Zinc	UG/L	MW92SR	01/20/2004	ND	20.0000
Zinc	UG/L	MW92SR	01/27/2005	ND	20.0000
Zinc	UG/L	MW92SR	01/13/2006	ND	20.0000
Zinc	UG/L	MW92SR	02/08/2007	ND	20.0000
Zinc	UG/L	MW92SR	02/21/2008	ND	20.0000
Zinc	UG/L	MW92SR	02/04/2009	ND	20.0000
Zinc	UG/L	MW92SR	02/08/2010	ND	10.0000
Zinc	UG/L	MW92SR	02/15/2011	ND	20.0000
Zinc	UG/L	MW92SR	03/08/2012	ND	20.0000
Zinc	UG/L	MW92SR	02/14/2013	ND	20.0000
Zinc	UG/L	MW92SR	02/06/2014	ND	20.0000
Zinc	UG/L	MW92SR	02/04/2015	ND	20.0000
Zinc	UG/L	MW92SR	01/29/2016	ND	20.0000
Zinc	UG/L	MW92SR	01/27/2017	ND	20.0000
Zinc	UG/L	MW93PR	07/25/1995	ND	20.0000
Zinc	UG/L	MW93PR	10/25/1995	ND	20.0000
Zinc	UG/L	MW93PR	01/17/1996	ND	20.0000
Zinc	UG/L	MW93PR	04/23/1996	ND	20.0000
Zinc	UG/L	MW93PR	07/18/1996	ND	20.0000
Zinc	UG/L	MW93PR	10/22/1996	ND	20.0000
Zinc	UG/L	MW93PR	01/20/1997	ND	20.0000
Zinc	UG/L	MW93PR	04/22/1997	ND	20.0000
Zinc	UG/L	MW93PR	07/16/1997	ND	20.0000
Zinc	UG/L	MW93PR	10/23/1997	ND	20.0000
Zinc	UG/L	MW93PR	01/21/1998	ND	20.0000
Zinc	UG/L	MW93PR	04/21/1998	ND	20.0000
Zinc	UG/L	MW93PR	07/16/1998	ND	20.0000
Zinc	UG/L	MW93PR	10/20/1998	ND	20.0000
Zinc	UG/L	MW93PR	01/19/1999	ND	20.0000
Zinc	UG/L	MW93PR	04/21/1999	ND	20.0000
Zinc	UG/L	MW93PR	07/20/1999	ND	20.0000
Zinc	UG/L	MW93PR	10/19/1999	ND	20.0000
Zinc	UG/L	MW93PR	01/18/2000	ND	20.0000
Zinc	UG/L	MW93PR	04/19/2000	ND	20.0000
Zinc	UG/L	MW93PR	07/18/2000	ND	20.0000
Zinc	UG/L	MW93PR	10/18/2000	ND	20.0000
Zinc	UG/L	MW93PR	01/17/2001	ND	20.0000
Zinc	UG/L	MW93PR	04/23/2001	ND	20.0000
Zinc	UG/L	MW93PR	07/17/2001	ND	20.0000
Zinc	UG/L	MW93PR	10/22/2001	ND	20.0000
Zinc	UG/L	MW93PR	01/16/2002	ND	20.0000
Zinc	UG/L	MW93PR	04/22/2002	ND	20.0000
Zinc	UG/L	MW93PR	07/17/2002	ND	20.0000
Zinc	UG/L	MW93PR	10/24/2002	ND	20.0000
Zinc	UG/L	MW93PR	01/20/2003	ND	20.0000
Zinc	UG/L	MW93PR	04/21/2003	ND	20.0000
Zinc	UG/L	MW93PR	07/16/2003	ND	20.0000
Zinc	UG/L	MW93PR	10/23/2003	ND	20.0000

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	
Zinc	UG/L	MW93PR	04/20/2004	ND	20.0000	
Zinc	UG/L	MW93PR	04/29/2005	ND	20.0000	
Zinc	UG/L	MW93PR	05/11/2006	ND	20.0000	
Zinc	UG/L	MW93PR	05/02/2007	ND	20.0000	
Zinc	UG/L	MW93PR	04/30/2008	ND	20.0000	
Zinc	UG/L	MW93PR	05/06/2009	ND	20.0000	
Zinc	UG/L	MW93PR	05/12/2010	ND	20.0000	
Zinc	UG/L	MW93PR	05/12/2011	ND	20.0000	
Zinc	UG/L	MW93PR	05/11/2012	ND	20.0000	
Zinc	UG/L	MW93PR	05/09/2013	ND	20.0000	
Zinc	UG/L	MW93PR	04/30/2014	ND	20.0000	
Zinc	UG/L	MW93PR	05/06/2015	ND	20.0000	
Zinc	UG/L	MW93PR	05/03/2016	ND	20.0000	
Zinc	UG/L	MW93PR	04/27/2017	ND	20.0000	
Zinc	UG/L	MW94PR	07/26/1995	ND	20.0000	
Zinc	UG/L	MW94PR	10/25/1995	ND	20.0000	
Zinc	UG/L	MW94PR	01/17/1996		21.6000	
Zinc	UG/L	MW94PR	04/23/1996	ND	20.0000	
Zinc	UG/L	MW94PR	07/18/1996	ND	20.0000	
Zinc	UG/L	MW94PR	10/22/1996	ND	20.0000	
Zinc	UG/L	MW94PR	01/20/1997	ND	20.0000	
Zinc	UG/L	MW94PR	04/23/1997	ND	20.0000	
Zinc	UG/L	MW94PR	07/15/1997	ND	20.0000	
Zinc	UG/L	MW94PR	10/21/1997	ND	20.0000	
Zinc	UG/L	MW94PR	01/15/1998	ND	20.0000	
Zinc	UG/L	MW94PR	04/22/1998	ND	20.0000	
Zinc	UG/L	MW94PR	07/16/1998	ND	20.0000	
Zinc	UG/L	MW94PR	10/21/1998	ND	20.0000	
Zinc	UG/L	MW94PR	01/18/1999	ND	20.0000	
Zinc	UG/L	MW94PR	04/21/1999	ND	20.0000	
Zinc	UG/L	MW94PR	07/19/1999	ND	20.0000	
Zinc	UG/L	MW94PR	10/19/1999	ND	20.0000	
Zinc	UG/L	MW94PR	01/17/2000	ND	20.0000	
Zinc	UG/L	MW94PR	04/19/2000	ND	20.0000	
Zinc	UG/L	MW94PR	07/17/2000	ND	20.0000	
Zinc	UG/L	MW94PR	10/18/2000	ND	20.0000	
Zinc	UG/L	MW94PR	01/18/2001	ND	20.0000	
Zinc	UG/L	MW94PR	04/19/2001	ND	20.0000	
Zinc	UG/L	MW94PR	07/16/2001	ND	20.0000	
Zinc	UG/L	MW94PR	10/18/2001	ND	20.0000	
Zinc	UG/L	MW94PR	01/17/2002	ND	20.0000	
Zinc	UG/L	MW94PR	04/18/2002	ND	20.0000	
Zinc	UG/L	MW94PR	07/17/2002	ND	20.0000	
Zinc	UG/L	MW94PR	10/24/2002	ND	20.0000	
Zinc	UG/L	MW94PR	01/20/2003	ND	20.0000	
Zinc	UG/L	MW94PR	04/21/2003	ND	20.0000	
Zinc	UG/L	MW94PR	07/16/2003	ND	20.0000	
Zinc	UG/L	MW94PR	10/23/2003	ND	20.0000	
Zinc	UG/L	MW94PR	04/20/2004	ND	20.0000	
Zinc	UG/L	MW94PR	04/29/2005	ND	20.0000	
Zinc	UG/L	MW94PR	05/11/2006	ND	20.0000	
Zinc	UG/L	MW94PR	05/03/2007	ND	20.0000	
Zinc	UG/L	MW94PR	05/01/2008	ND	20.0000	
Zinc	UG/L	MW94PR	05/07/2009	ND	20.0000	
Zinc	UG/L	MW94PR	05/14/2010	ND	20.0000	
Zinc	UG/L	MW94PR	05/13/2011	ND	20.0000	
Zinc	UG/L	MW94PR	05/11/2012	ND	20.0000	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	
Zinc	UG/L	MW94PR	05/09/2013	ND	20.0000	
Zinc	UG/L	MW94PR	04/30/2014	ND	20.0000	
Zinc	UG/L	MW94PR	05/06/2015	ND	20.0000	
Zinc	UG/L	MW94PR	05/03/2016	ND	20.0000	
Zinc	UG/L	MW94PR	04/28/2017	ND	20.0000	
Zinc	UG/L	MW95P	02/10/1993	ND	20.0000	
Zinc	UG/L	MW95P	04/14/1993	ND	20.0000	
Zinc	UG/L	MW95P	08/10/1993	ND	20.0000	
Zinc	UG/L	MW95P	10/13/1993	ND	20.0000	
Zinc	UG/L	MW95P	02/14/1994	ND	20.0000	
Zinc	UG/L	MW95P	05/09/1994		26.0000	
Zinc	UG/L	MW95P	07/20/1994	ND	20.0000	
Zinc	UG/L	MW95P	10/20/1994	ND	20.0000	
Zinc	UG/L	MW95P	01/17/1995	ND	20.0000	
Zinc	UG/L	MW95P	04/24/1995	ND	20.0000	
Zinc	UG/L	MW95P	07/25/1995	ND	20.0000	
Zinc	UG/L	MW95P	10/23/1995	ND	20.0000	
Zinc	UG/L	MW95P	01/23/1996	ND	20.0000	
Zinc	UG/L	MW95P	04/15/1996	ND	20.0000	
Zinc	UG/L	MW95P	07/18/1996	ND	20.0000	
Zinc	UG/L	MW95P	10/22/1996	ND	20.0000	
Zinc	UG/L	MW95P	01/20/1997	ND	20.0000	
Zinc	UG/L	MW95P	04/22/1997	ND	20.0000	
Zinc	UG/L	MW95P	07/16/1997	ND	20.0000	
Zinc	UG/L	MW95P	10/16/1997	ND	20.0000	
Zinc	UG/L	MW95P	01/15/1998	ND	20.0000	
Zinc	UG/L	MW95P	04/21/1998	ND	20.0000	
Zinc	UG/L	MW95P	07/16/1998	ND	20.0000	
Zinc	UG/L	MW95P	10/19/1998	ND	20.0000	
Zinc	UG/L	MW95P	01/19/1999	ND	20.0000	
Zinc	UG/L	MW95P	04/21/1999	ND	20.0000	
Zinc	UG/L	MW95P	07/20/1999	ND	20.0000	
Zinc	UG/L	MW95P	10/19/1999	ND	20.0000	
Zinc	UG/L	MW95P	01/18/2000	ND	20.0000	
Zinc	UG/L	MW95P	04/19/2000	ND	20.0000	
Zinc	UG/L	MW95P	07/18/2000	ND	20.0000	
Zinc	UG/L	MW95P	10/18/2000	ND	20.0000	
Zinc	UG/L	MW95P	01/17/2001	ND	20.0000	
Zinc	UG/L	MW95P	04/23/2001	ND	20.0000	
Zinc	UG/L	MW95P	07/17/2001	ND	20.0000	
Zinc	UG/L	MW95P	10/22/2001	ND	20.0000	
Zinc	UG/L	MW95P	01/16/2002	ND	20.0000	
Zinc	UG/L	MW95P	04/22/2002	ND	20.0000	
Zinc	UG/L	MW95P	07/17/2002	ND	20.0000	
Zinc	UG/L	MW95P	10/24/2002	ND	20.0000	
Zinc	UG/L	MW95P	01/20/2003	ND	20.0000	
Zinc	UG/L	MW95P	04/21/2003	ND	20.0000	
Zinc	UG/L	MW95P	07/16/2003	ND	20.0000	
Zinc	UG/L	MW95P	10/23/2003	ND	20.0000	
Zinc	UG/L	MW95P	04/20/2004	ND	20.0000	
Zinc	UG/L	MW95P	04/29/2005	ND	20.0000	
Zinc	UG/L	MW95P	05/11/2006	ND	20.0000	
Zinc	UG/L	MW95P	05/02/2007	ND	20.0000	
Zinc	UG/L	MW95P	04/30/2008	ND	20.0000	
Zinc	UG/L	MW95P	05/06/2009	ND	20.0000	
Zinc	UG/L	MW95P	05/12/2010	ND	20.0000	
Zinc	UG/L	MW95P	05/11/2011	ND	20.0000	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result
Zinc	UG/L	MW95P	05/11/2012	ND	20.0000
Zinc	UG/L	MW95P	05/09/2013	ND	20.0000
Zinc	UG/L	MW95P	04/23/2014	ND	20.0000
Zinc	UG/L	MW95P	04/30/2015	ND	20.0000
Zinc	UG/L	MW95P	04/28/2016	ND	20.0000
Zinc	UG/L	MW95P	04/20/2017	ND	20.0000
Zinc	UG/L	MW96T	04/14/1993		46.0000
Zinc	UG/L	MW96T	08/11/1993		29.0000
Zinc	UG/L	MW96T	10/13/1993	ND	20.0000
Zinc	UG/L	MW96T	01/04/1994		47.0000
Zinc	UG/L	MW96T	04/05/1994	ND	20.0000
Zinc	UG/L	MW96T	07/19/1994	ND	20.0000
Zinc	UG/L	MW96T	10/20/1994	ND	20.0000
Zinc	UG/L	MW96T	01/17/1995	ND	20.0000
Zinc	UG/L	MW96T	04/24/1995	ND	20.0000
Zinc	UG/L	MW96T	07/25/1995	ND	20.0000
Zinc	UG/L	MW96T	10/11/1995	ND	20.0000
Zinc	UG/L	MW96T	01/17/1996	ND	20.0000
Zinc	UG/L	MW96T	04/18/1996	ND	20.0000
Zinc	UG/L	MW96T	07/18/1996	ND	20.0000
Zinc	UG/L	MW96T	10/22/1996	ND	20.0000
Zinc	UG/L	MW96T	01/21/1997	ND	20.0000
Zinc	UG/L	MW96T	04/22/1997	ND	20.0000
Zinc	UG/L	MW96T	07/15/1997	ND	20.0000
Zinc	UG/L	MW96T	10/21/1997	ND	20.0000
Zinc	UG/L	MW96T	01/15/1998	ND	20.0000
Zinc	UG/L	MW96T	04/22/1998	ND	20.0000
Zinc	UG/L	MW96T	07/16/1998		63.8000
Zinc	UG/L	MW96T	10/20/1998	ND	20.0000
Zinc	UG/L	MW96T	01/20/1999	ND	20.0000
Zinc	UG/L	MW96T	04/21/1999	ND	20.0000
Zinc	UG/L	MW96T	07/20/1999	ND	20.0000
Zinc	UG/L	MW96T	10/19/1999	ND	20.0000
Zinc	UG/L	MW96T	01/19/2000	ND	20.0000
Zinc	UG/L	MW96T	04/19/2000	ND	20.0000
Zinc	UG/L	MW96T	07/19/2000	ND	20.0000
Zinc	UG/L	MW96T	10/18/2000	ND	20.0000
Zinc	UG/L	MW96T	01/17/2001	ND	20.0000
Zinc	UG/L	MW96T	04/19/2001	ND	20.0000
Zinc	UG/L	MW96T	07/18/2001	ND	20.0000
Zinc	UG/L	MW96T	10/18/2001	ND	20.0000
Zinc	UG/L	MW96T	01/16/2002	ND	20.0000
Zinc	UG/L	MW96T	04/18/2002	ND	20.0000
Zinc	UG/L	MW96T	07/18/2002	ND	20.0000
Zinc	UG/L	MW96T	10/24/2002	ND	20.0000
Zinc	UG/L	MW96T	01/21/2003	ND	20.0000
Zinc	UG/L	MW96T	04/21/2003	ND	20.0000
Zinc	UG/L	MW96T	07/16/2003	ND	20.0000
Zinc	UG/L	MW96T	10/23/2003	ND	20.0000
Zinc	UG/L	MW96T	01/20/2004	ND	20.0000
Zinc	UG/L	MW96T	01/27/2005	ND	20.0000
Zinc	UG/L	MW96T	01/17/2006	ND	20.0000
Zinc	UG/L	MW96T	02/08/2007	ND	20.0000
Zinc	UG/L	MW96T	02/22/2008	ND	20.0000
Zinc	UG/L	MW96T	02/06/2009	ND	20.0000
Zinc	UG/L	MW96T	02/09/2010	ND	10.0000
Zinc	UG/L	MW96T	02/17/2011	ND	20.0000

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result
Zinc	UG/L	MW96T	03/09/2012	ND	20.0000
Zinc	UG/L	MW96T	02/19/2013	ND	20.0000
Zinc	UG/L	MW96T	02/07/2014	ND	20.0000
Zinc	UG/L	MW96T	02/04/2015	ND	20.0000
Zinc	UG/L	MW96T	02/10/2016	ND	20.0000
Zinc	UG/L	MW96T	02/01/2017	ND	20.0000
Zinc	UG/L	MW97T	02/10/1993	ND	20.0000
Zinc	UG/L	MW97T	04/14/1993	ND	20.0000
Zinc	UG/L	MW97T	08/10/1993	ND	20.0000
Zinc	UG/L	MW97T	10/13/1993	ND	20.0000
Zinc	UG/L	MW97T	02/16/1994	ND	20.0000
Zinc	UG/L	MW97T	05/09/1994		36.0000
Zinc	UG/L	MW97T	07/20/1994	ND	20.0000
Zinc	UG/L	MW97T	10/24/1994	ND	20.0000
Zinc	UG/L	MW97T	01/17/1995	ND	20.0000
Zinc	UG/L	MW97T	04/07/1995	ND	20.0000
Zinc	UG/L	MW97T	07/25/1995	ND	20.0000
Zinc	UG/L	MW98TR	07/25/1995	ND	20.0000
Zinc	UG/L	MW98TR	10/25/1995	ND	20.0000
Zinc	UG/L	MW98TR	01/17/1996	ND	20.0000
Zinc	UG/L	MW98TR	04/23/1996	ND	20.0000
Zinc	UG/L	MW98TR	07/18/1996	ND	20.0000
Zinc	UG/L	MW98TR	10/22/1996	ND	20.0000
Zinc	UG/L	MW98TR	01/21/1997	ND	20.0000
Zinc	UG/L	MW98TR	04/22/1997	ND	20.0000
Zinc	UG/L	MW98TR	07/15/1997	ND	20.0000
Zinc	UG/L	MW98TR	10/21/1997	ND	20.0000
Zinc	UG/L	MW98TR	01/20/1998	ND	20.0000
Zinc	UG/L	MW98TR	07/16/1998	ND	20.0000
Zinc	UG/L	MW98TR	10/20/1998	ND	20.0000
Zinc	UG/L	MW98TR	01/20/1999	ND	20.0000
Zinc	UG/L	MW98TR	04/21/1999	ND	20.0000
Zinc	UG/L	MW98TR	07/20/1999	ND	20.0000
Zinc	UG/L	MW98TR	10/19/1999	ND	20.0000
Zinc	UG/L	MW98TR	01/19/2000	ND	20.0000
Zinc	UG/L	MW98TR	04/19/2000	ND	20.0000
Zinc	UG/L	MW98TR	07/19/2000	ND	20.0000
Zinc	UG/L	MW98TR	10/18/2000	ND	20.0000
Zinc	UG/L	MW98TR	01/17/2001	ND	20.0000
Zinc	UG/L	MW98TR	04/19/2001	ND	20.0000
Zinc	UG/L	MW98TR	07/18/2001	ND	20.0000
Zinc	UG/L	MW98TR	10/18/2001	ND	20.0000
Zinc	UG/L	MW98TR	01/16/2002	ND	20.0000
Zinc	UG/L	MW98TR	04/18/2002	ND	20.0000
Zinc	UG/L	MW98TR	07/18/2002	ND	20.0000
Zinc	UG/L	MW98TR	10/24/2002	ND	20.0000
Zinc	UG/L	MW98TR	01/21/2003	ND	20.0000
Zinc	UG/L	MW98TR	04/21/2003	ND	20.0000
Zinc	UG/L	MW98TR	07/16/2003	ND	20.0000
Zinc	UG/L	MW98TR	10/23/2003	ND	20.0000
Zinc	UG/L	MW98TR	01/20/2004	ND	20.0000
Zinc	UG/L	MW98TR	01/27/2005	ND	20.0000
Zinc	UG/L	MW98TR	01/17/2006	ND	20.0000
Zinc	UG/L	MW98TR	02/08/2007	ND	20.0000
Zinc	UG/L	MW98TR	02/22/2008	ND	20.0000
Zinc	UG/L	MW98TR	02/06/2009	ND	20.0000
Zinc	UG/L	MW98TR	02/09/2010	ND	10.0000

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result
Zinc	UG/L	MW98TR	02/17/2011	ND	20.0000
Zinc	UG/L	MW98TR	03/09/2012	ND	20.0000
Zinc	UG/L	MW98TR	02/15/2013	ND	20.0000
Zinc	UG/L	MW98TR	02/06/2014	ND	20.0000
Zinc	UG/L	MW98TR	02/04/2015	ND	20.0000
Zinc	UG/L	MW98TR	02/10/2016	ND	20.0000
Zinc	UG/L	MW98TR	02/01/2017	ND	20.0000
Zinc	UG/L	PSDL17A	01/05/1993	ND	20.0000
Zinc	UG/L	PSDL17A	03/09/1993		20.0000
Zinc	UG/L	PSDL17A	05/06/1993	ND	20.0000
Zinc	UG/L	PSDL17A	06/09/1993		29.0000
Zinc	UG/L	PSDL17A	07/08/1993		38.0000
Zinc	UG/L	PSDL17A	09/02/1993		70.0000
Zinc	UG/L	PSDL17A	11/03/1993	ND	20.0000
Zinc	UG/L	PSDL17A	12/08/1993	ND	20.0000
Zinc	UG/L	PSDL17A	02/15/1994	ND	20.0000
Zinc	UG/L	PSDL17A	05/09/1994		28.0000
Zinc	UG/L	PSDL17A	07/06/1994	ND	20.0000
Zinc	UG/L	PSDL17A	10/20/1994	ND	20.0000
Zinc	UG/L	PSDL17A	01/09/1995	ND	20.0000
Zinc	UG/L	PSDL17A	04/07/1995	ND	20.0000
Zinc	UG/L	PSDL17A	07/17/1995	ND	20.0000
Zinc	UG/L	PSDL17A	10/11/1995	ND	20.0000
Zinc	UG/L	PSDL17A	01/16/1996	ND	20.0000
Zinc	UG/L	PSDL17A	04/10/1996	ND	20.0000
Zinc	UG/L	PSDL17A	07/18/1996	ND	20.0000
Zinc	UG/L	PSDL17A	10/22/1996	ND	20.0000
Zinc	UG/L	PSDL17A	01/20/1997	ND	20.0000
Zinc	UG/L	PSDL17A	04/22/1997	ND	20.0000
Zinc	UG/L	PSDL17A	07/16/1997	ND	20.0000
Zinc	UG/L	PSDL17A	10/16/1997	ND	20.0000
Zinc	UG/L	PSDL17A	01/20/1998	ND	20.0000
Zinc	UG/L	PSDL17A	04/22/1998	ND	20.0000
Zinc	UG/L	PSDL17A	07/16/1998	ND	20.0000
Zinc	UG/L	PSDL17A	10/19/1998	ND	20.0000
Zinc	UG/L	PSDL17A	01/19/1999	ND	20.0000
Zinc	UG/L	PSDL17A	04/20/1999	ND	20.0000
Zinc	UG/L	PSDL17A	07/20/1999	ND	20.0000
Zinc	UG/L	PSDL17A	10/18/1999	ND	20.0000
Zinc	UG/L	PSDL17A	01/18/2000	ND	20.0000
Zinc	UG/L	PSDL17A	04/18/2000	ND	20.0000
Zinc	UG/L	PSDL17A	07/18/2000	ND	20.0000
Zinc	UG/L	PSDL17A	10/17/2000	ND	20.0000
Zinc	UG/L	PSDL17A	01/16/2001	ND	20.0000
Zinc	UG/L	PSDL17A	04/18/2001	ND	20.0000
Zinc	UG/L	PSDL17A	07/17/2001	ND	20.0000
Zinc	UG/L	PSDL17A	10/17/2001	ND	20.0000
Zinc	UG/L	PSDL17A	01/16/2002	ND	20.0000
Zinc	UG/L	PSDL17A	04/16/2002	ND	20.0000
Zinc	UG/L	PSDL17A	07/17/2002	ND	20.0000
Zinc	UG/L	PSDL17A	10/22/2002	ND	20.0000
Zinc	UG/L	PSDL17A	01/20/2003	ND	20.0000
Zinc	UG/L	PSDL17A	04/21/2003	ND	20.0000
Zinc	UG/L	PSDL17A	07/15/2003	ND	20.0000
Zinc	UG/L	PSDL17A	10/23/2003	ND	20.0000
Zinc	UG/L	PSDL17A	01/19/2004	ND	20.0000
Zinc	UG/L	PSDL17A	01/26/2005	ND	20.0000

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result
Zinc	UG/L	PSDL17A	01/13/2006	ND	20.0000
Zinc	UG/L	PSDL17A	02/07/2007	ND	20.0000
Zinc	UG/L	PSDL17A	02/21/2008	ND	20.0000
Zinc	UG/L	PSDL17A	02/05/2009	ND	20.0000
Zinc	UG/L	PSDL17A	02/09/2010	ND	10.0000
Zinc	UG/L	PSDL17A	02/15/2011	ND	20.0000
Zinc	UG/L	PSDL17A	03/08/2012	ND	20.0000
Zinc	UG/L	PSDL17A	02/14/2013	ND	20.0000
Zinc	UG/L	PSDL17A	02/06/2014		21.0000
Zinc	UG/L	PSDL17A	02/04/2015	ND	20.0000
Zinc	UG/L	PSDL17A	02/05/2016	ND	20.0000
Zinc	UG/L	PSDL17A	01/31/2017	ND	20.0000
Zinc	UG/L	UBC25	02/09/1993		39.0000
Zinc	UG/L	UBC25	04/14/1993		21.0000
Zinc	UG/L	UBC25	08/05/1993	ND	20.0000
Zinc	UG/L	UBC25	10/12/1993	ND	20.0000
Zinc	UG/L	UBC25	02/14/1994	ND	20.0000
Zinc	UG/L	UBC25	05/09/1994	ND	20.0000
Zinc	UG/L	UBC25	10/20/1994	ND	20.0000
Zinc	UG/L	UBC25	04/20/1995	ND	20.0000
Zinc	UG/L	UBC25	10/25/1995	ND	20.0000
Zinc	UG/L	UBC25	04/23/1996	ND	20.0000
Zinc	UG/L	UBC25	10/22/1996	ND	20.0000
Zinc	UG/L	UBC25	04/22/1997	ND	20.0000
Zinc	UG/L	UBC25	10/21/1997	ND	20.0000
Zinc	UG/L	UBC25	04/21/1998	ND	20.0000
Zinc	UG/L	UBC25	10/20/1998	ND	20.0000
Zinc	UG/L	UBC25	04/21/1999	ND	20.0000
Zinc	UG/L	UBC25	10/19/1999	ND	20.0000
Zinc	UG/L	UBC25	04/19/2000	ND	20.0000
Zinc	UG/L	UBC25	07/19/2000	ND	20.0000
Zinc	UG/L	UBC25	10/18/2000	ND	20.0000
Zinc	UG/L	UBC25	04/23/2001	ND	20.0000
Zinc	UG/L	UBC25	10/22/2001	ND	20.0000
Zinc	UG/L	UBC25	04/22/2002	ND	20.0000
Zinc	UG/L	UBC25	10/24/2002	ND	20.0000
Zinc	UG/L	UBC25	04/21/2003	ND	20.0000
Zinc	UG/L	UBC25	10/23/2003	ND	20.0000
Zinc	UG/L	UBC25	07/20/2004	ND	20.0000
Zinc	UG/L	UBC25	07/28/2005	ND	20.0000
Zinc	UG/L	UBC25	08/09/2006	ND	20.0000
Zinc	UG/L	UBC25	08/10/2007	ND	20.0000
Zinc	UG/L	UBC25	08/08/2008	ND	20.0000
Zinc	UG/L	UBC25	07/31/2009	ND	20.0000
Zinc	UG/L	UBC25	08/06/2010	ND	20.0000
Zinc	UG/L	UBC25	08/08/2011	ND	20.0000
Zinc	UG/L	UBC25	08/13/2012	ND	20.0000
Zinc	UG/L	UBC25	08/08/2013	ND	20.0000
Zinc	UG/L	UBC25	07/30/2014	ND	20.0000
Zinc	UG/L	UBC25	08/17/2015	ND	20.0000
Zinc	UG/L	UBC25	08/19/2016	ND	20.0000
Zinc	UG/L	UBC25	07/27/2017	ND	20.0000
Zinc	UG/L	UBC27	02/09/1993	ND	20.0000
Zinc	UG/L	UBC27	04/14/1993	ND	20.0000
Zinc	UG/L	UBC27	08/11/1993		20.0000
Zinc	UG/L	UBC27	10/13/1993		30.0000
Zinc	UG/L	UBC27	02/14/1994	ND	20.0000

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	
Zinc	UG/L	UBC27	05/11/1994	ND	20.0000	
Zinc	UG/L	UBC27	10/20/1994	ND	20.0000	
Zinc	UG/L	UBC27	04/20/1995	ND	20.0000	
Zinc	UG/L	UBC27	10/25/1995	ND	20.0000	
Zinc	UG/L	UBC27	04/23/1996	ND	20.0000	
Zinc	UG/L	UBC27	10/22/1996	ND	20.0000	
Zinc	UG/L	UBC27	04/22/1997	ND	20.0000	
Zinc	UG/L	UBC27	10/23/1997	ND	20.0000	
Zinc	UG/L	UBC27	04/21/1998	ND	20.0000	
Zinc	UG/L	UBC27	10/20/1998	ND	20.0000	
Zinc	UG/L	UBC27	04/21/1999	ND	20.0000	
Zinc	UG/L	UBC27	10/19/1999	ND	20.0000	
Zinc	UG/L	UBC27	04/19/2000	ND	20.0000	
Zinc	UG/L	UBC27	07/18/2000	ND	20.0000	
Zinc	UG/L	UBC27	10/18/2000	ND	20.0000	
Zinc	UG/L	UBC27	04/23/2001	ND	20.0000	
Zinc	UG/L	UBC27	10/22/2001	ND	20.0000	
Zinc	UG/L	UBC27	04/22/2002	ND	20.0000	
Zinc	UG/L	UBC27	10/24/2002	ND	20.0000	
Zinc	UG/L	UBC27	04/21/2003	ND	20.0000	
Zinc	UG/L	UBC27	10/23/2003	ND	20.0000	
Zinc	UG/L	UBC27	07/20/2004	ND	20.0000	
Zinc	UG/L	UBC27	07/28/2005	ND	20.0000	
Zinc	UG/L	UBC27	08/09/2006	ND	20.0000	
Zinc	UG/L	UBC27	08/10/2007	ND	20.0000	
Zinc	UG/L	UBC27	08/08/2008	ND	20.0000	
Zinc	UG/L	UBC27	07/31/2009	ND	20.0000	
Zinc	UG/L	UBC27	08/06/2010	ND	20.0000	
Zinc	UG/L	UBC27	08/08/2011	ND	20.0000	
Zinc	UG/L	UBC27	08/13/2012	ND	20.0000	
Zinc	UG/L	UBC27	08/08/2013	ND	20.0000	
Zinc	UG/L	UBC27	07/30/2014	ND	20.0000	
Zinc	UG/L	UBC27	08/17/2015	ND	20.0000	
Zinc	UG/L	UBC27	08/19/2016	ND	20.0000	
Zinc	UG/L	UBC27	07/27/2017	ND	20.0000	
Zinc	UG/L	UBC28AR	10/25/1995	ND	20.0000	
Zinc	UG/L	UBC28AR	04/18/1996	ND	20.0000	
Zinc	UG/L	UBC28AR	10/17/1996	ND	20.0000	
Zinc	UG/L	UBC28AR	04/22/1997	ND	20.0000	
Zinc	UG/L	UBC28AR	10/16/1997	ND	20.0000	
Zinc	UG/L	UBC28AR	04/21/1998	ND	20.0000	
Zinc	UG/L	UBC28AR	10/19/1998	ND	20.0000	
Zinc	UG/L	UBC28AR	04/21/1999	ND	20.0000	
Zinc	UG/L	UBC28AR	10/19/1999	ND	20.0000	
Zinc	UG/L	UBC28AR	04/19/2000	ND	20.0000	
Zinc	UG/L	UBC28AR	07/19/2000	ND	20.0000	
Zinc	UG/L	UBC28AR	10/18/2000	ND	20.0000	
Zinc	UG/L	UBC28AR	04/23/2001	ND	20.0000	
Zinc	UG/L	UBC28AR	10/22/2001	ND	20.0000	
Zinc	UG/L	UBC28AR	04/22/2002	ND	20.0000	
Zinc	UG/L	UBC28AR	10/24/2002	ND	20.0000	
Zinc	UG/L	UBC28AR	04/21/2003	ND	20.0000	
Zinc	UG/L	UBC28AR	10/23/2003	ND	20.0000	
Zinc	UG/L	UBC28AR	07/20/2004	ND	20.0000	
Zinc	UG/L	UBC28AR	07/28/2005	ND	20.0000	
Zinc	UG/L	UBC28AR	08/09/2006	ND	20.0000	
Zinc	UG/L	UBC28AR	08/10/2007	ND	20.0000	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	
Zinc	UG/L	UBC28AR	08/08/2008	ND	20.0000	
Zinc	UG/L	UBC28AR	07/31/2009	ND	20.0000	
Zinc	UG/L	UBC28AR	08/06/2010	ND	20.0000	
Zinc	UG/L	UBC28AR	08/05/2011	ND	20.0000	
Zinc	UG/L	UBC28AR	08/10/2012	ND	20.0000	
Zinc	UG/L	UBC28AR	08/08/2013	ND	20.0000	
Zinc	UG/L	UBC28AR	07/30/2014	ND	20.0000	
Zinc	UG/L	UBC28AR	08/14/2015	ND	20.0000	
Zinc	UG/L	UBC28AR	08/10/2016	ND	20.0000	
Zinc	UG/L	UBC28AR	07/27/2017	ND	20.0000	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 2

Most Current Downgradient Monitoring Data

Constituent	Units	Well	Date		Result		Pred. Limit
Arsenic	ug/L	PBC004	07/24/2017	ND	15.0000		10.0000
Arsenic	ug/L	UBC019	07/28/2017	ND	15.0000		10.0000
Arsenic	ug/L	UBC057	07/27/2017	ND	15.0000		10.0000
Arsenic	ug/L	UBC058	07/27/2017	ND	15.0000		10.0000
Arsenic	ug/L	UBC059	07/26/2017	ND	15.0000		10.0000
Arsenic	ug/L	UBC060	07/27/2017	ND	15.0000		10.0000
Arsenic	ug/L	UBC061	07/27/2017	ND	15.0000		10.0000
Arsenic	ug/L	UBC062	07/28/2017	ND	15.0000		10.0000
Arsenic	ug/L	UBC063	07/27/2017	ND	15.0000		10.0000
Arsenic	ug/L	UBC10	07/18/2017	ND	15.0000		10.0000
Arsenic	ug/L	UBC11	07/18/2017	ND	15.0000		10.0000
Arsenic	ug/L	UBC12	07/19/2017	ND	15.0000		10.0000
Arsenic	ug/L	UBC13	07/19/2017	ND	15.0000		10.0000
Arsenic	ug/L	UBC14	07/19/2017	ND	15.0000		10.0000
Arsenic	ug/L	UBC15AR	07/21/2017	ND	15.0000		10.0000
Arsenic	ug/L	UBC16	07/24/2017	ND	15.0000		10.0000
Arsenic	ug/L	UBC17	07/25/2017	ND	15.0000		10.0000
Arsenic	ug/L	UBC18	07/25/2017	ND	15.0000		10.0000
Arsenic	ug/L	UBC22AR	07/20/2017	ND	15.0000		10.0000
Arsenic	ug/L	UBC24	07/21/2017	ND	15.0000		10.0000
Arsenic	ug/L	UBC26	07/21/2017	ND	15.0000		10.0000
Arsenic	ug/L	UBC29AR	07/24/2017	ND	15.0000		10.0000
Arsenic	ug/L	UBC30	07/25/2017	ND	15.0000		10.0000
Arsenic	ug/L	UBC31	07/25/2017	ND	15.0000		10.0000
Arsenic	ug/L	UBC34	07/20/2017	ND	15.0000		10.0000
Arsenic	ug/L	UBC4	07/19/2017		30.0000	***	10.0000
Arsenic	ug/L	UBC48	07/26/2017	ND	15.0000		10.0000
Arsenic	ug/L	UBC49	07/26/2017	ND	15.0000		10.0000
Arsenic	ug/L	UBC51	07/25/2017	ND	15.0000		10.0000
Arsenic	ug/L	UBC52	07/25/2017	ND	15.0000		10.0000
Arsenic	ug/L	UBC53	07/18/2017	ND	15.0000		10.0000
Barium	UG/L	PBC004	07/24/2017		68.0000		340.0000
Barium	UG/L	UBC019	07/28/2017		100.0000		340.0000
Barium	UG/L	UBC057	07/27/2017		94.0000		340.0000
Barium	UG/L	UBC058	07/27/2017		73.0000		340.0000
Barium	UG/L	UBC059	07/26/2017		83.0000		340.0000
Barium	UG/L	UBC060	07/27/2017		86.0000		340.0000
Barium	UG/L	UBC061	07/27/2017		71.0000		340.0000
Barium	UG/L	UBC062	07/28/2017		90.0000		340.0000
Barium	UG/L	UBC063	07/27/2017		89.0000		340.0000
Barium	UG/L	UBC10	07/18/2017		160.0000		340.0000
Barium	UG/L	UBC11	07/18/2017		83.0000		340.0000
Barium	UG/L	UBC12	07/19/2017		70.0000		340.0000
Barium	UG/L	UBC13	07/19/2017		84.0000		340.0000
Barium	UG/L	UBC14	07/19/2017		67.0000		340.0000
Barium	UG/L	UBC15AR	07/21/2017		120.0000		340.0000
Barium	UG/L	UBC16	07/24/2017		73.0000		340.0000
Barium	UG/L	UBC17	07/25/2017		74.0000		340.0000
Barium	UG/L	UBC18	07/25/2017		73.0000		340.0000
Barium	UG/L	UBC22AR	07/20/2017		79.0000		340.0000
Barium	UG/L	UBC24	07/21/2017		89.0000		340.0000
Barium	UG/L	UBC26	07/21/2017		87.0000		340.0000
Barium	UG/L	UBC29AR	07/24/2017		59.0000		340.0000

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ND = Not Detected, result = detection limit.

Table 2

Most Current Downgradient Monitoring Data

Constituent	Units	Well	Date		Result		Pred. Limit
Barium	UG/L	UBC30	07/25/2017		56.0000		340.0000
Barium	UG/L	UBC31	07/25/2017		69.0000		340.0000
Barium	UG/L	UBC34	07/20/2017	ND	25.0000		340.0000
Barium	UG/L	UBC4	07/19/2017		140.0000		340.0000
Barium	UG/L	UBC48	07/26/2017		83.0000		340.0000
Barium	UG/L	UBC49	07/26/2017		94.0000		340.0000
Barium	UG/L	UBC51	07/25/2017		71.0000		340.0000
Barium	UG/L	UBC52	07/25/2017		62.0000		340.0000
Barium	UG/L	UBC53	07/18/2017		78.0000		340.0000
Cadmium	UG/L	PBC004	07/24/2017	ND	5.0000		330.0000
Cadmium	UG/L	UBC019	07/28/2017	ND	5.0000		330.0000
Cadmium	UG/L	UBC057	07/27/2017	ND	5.0000		330.0000
Cadmium	UG/L	UBC058	07/27/2017	ND	5.0000		330.0000
Cadmium	UG/L	UBC059	07/26/2017	ND	5.0000		330.0000
Cadmium	UG/L	UBC060	07/27/2017	ND	5.0000		330.0000
Cadmium	UG/L	UBC061	07/27/2017	ND	5.0000		330.0000
Cadmium	UG/L	UBC062	07/28/2017	ND	5.0000		330.0000
Cadmium	UG/L	UBC063	07/27/2017	ND	5.0000		330.0000
Cadmium	UG/L	UBC10	07/18/2017	ND	5.0000		330.0000
Cadmium	UG/L	UBC11	07/18/2017	ND	5.0000		330.0000
Cadmium	UG/L	UBC12	07/19/2017	ND	5.0000		330.0000
Cadmium	UG/L	UBC13	07/19/2017	ND	5.0000		330.0000
Cadmium	UG/L	UBC14	07/19/2017	ND	5.0000		330.0000
Cadmium	UG/L	UBC15AR	07/21/2017	ND	5.0000		330.0000
Cadmium	UG/L	UBC16	07/24/2017	ND	5.0000		330.0000
Cadmium	UG/L	UBC17	07/25/2017	ND	5.0000		330.0000
Cadmium	UG/L	UBC18	07/25/2017	ND	5.0000		330.0000
Cadmium	UG/L	UBC22AR	07/20/2017	ND	5.0000		330.0000
Cadmium	UG/L	UBC24	07/21/2017	ND	5.0000		330.0000
Cadmium	UG/L	UBC26	07/21/2017	ND	5.0000		330.0000
Cadmium	UG/L	UBC29AR	07/24/2017	ND	5.0000		330.0000
Cadmium	UG/L	UBC30	07/25/2017	ND	5.0000		330.0000
Cadmium	UG/L	UBC31	07/25/2017	ND	5.0000		330.0000
Cadmium	UG/L	UBC34	07/20/2017	ND	5.0000		330.0000
Cadmium	UG/L	UBC4	07/19/2017	ND	5.0000		330.0000
Cadmium	UG/L	UBC48	07/26/2017	ND	5.0000		330.0000
Cadmium	UG/L	UBC49	07/26/2017	ND	5.0000		330.0000
Cadmium	UG/L	UBC51	07/25/2017	ND	5.0000		330.0000
Cadmium	UG/L	UBC52	07/25/2017	ND	5.0000		330.0000
Cadmium	UG/L	UBC53	07/18/2017	ND	5.0000		330.0000
Chromium	UG/L	PBC004	07/24/2017	ND	10.0000		37.0000
Chromium	UG/L	UBC019	07/28/2017	ND	10.0000		37.0000
Chromium	UG/L	UBC057	07/27/2017	ND	10.0000		37.0000
Chromium	UG/L	UBC058	07/27/2017	ND	10.0000		37.0000
Chromium	UG/L	UBC059	07/26/2017	ND	10.0000		37.0000
Chromium	UG/L	UBC060	07/27/2017	ND	10.0000		37.0000
Chromium	UG/L	UBC061	07/27/2017	ND	10.0000		37.0000
Chromium	UG/L	UBC062	07/28/2017	ND	10.0000		37.0000
Chromium	UG/L	UBC063	07/27/2017	ND	10.0000		37.0000
Chromium	UG/L	UBC10	07/18/2017	ND	10.0000		37.0000
Chromium	UG/L	UBC11	07/18/2017	ND	10.0000		37.0000
Chromium	UG/L	UBC12	07/19/2017	ND	10.0000		37.0000
Chromium	UG/L	UBC13	07/19/2017	ND	10.0000		37.0000

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***** - Insufficient background data to compute prediction limit.
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Table 2

Most Current Downgradient Monitoring Data

Constituent	Units	Well	Date		Result		Pred. Limit
Chromium	UG/L	UBC14	07/19/2017	ND	10.0000		37.0000
Chromium	UG/L	UBC15AR	07/21/2017	ND	10.0000		37.0000
Chromium	UG/L	UBC16	07/24/2017	ND	10.0000		37.0000
Chromium	UG/L	UBC17	07/25/2017	ND	10.0000		37.0000
Chromium	UG/L	UBC18	07/25/2017	ND	10.0000		37.0000
Chromium	UG/L	UBC22AR	07/20/2017	ND	10.0000		37.0000
Chromium	UG/L	UBC24	07/21/2017	ND	10.0000		37.0000
Chromium	UG/L	UBC26	07/21/2017	ND	10.0000		37.0000
Chromium	UG/L	UBC29AR	07/24/2017	ND	10.0000		37.0000
Chromium	UG/L	UBC30	07/25/2017	ND	10.0000		37.0000
Chromium	UG/L	UBC31	07/25/2017	ND	10.0000		37.0000
Chromium	UG/L	UBC34	07/20/2017	ND	10.0000		37.0000
Chromium	UG/L	UBC4	07/19/2017	ND	10.0000		37.0000
Chromium	UG/L	UBC48	07/26/2017	ND	10.0000		37.0000
Chromium	UG/L	UBC49	07/26/2017	ND	10.0000		37.0000
Chromium	UG/L	UBC51	07/25/2017	ND	10.0000		37.0000
Chromium	UG/L	UBC52	07/25/2017	ND	10.0000		37.0000
Chromium	UG/L	UBC53	07/18/2017	ND	10.0000		37.0000
Conductivity	UMHO	PBC004	07/24/2017		100.0000		426.0000
Conductivity	UMHO	UBC019	07/28/2017		110.0000		426.0000
Conductivity	UMHO	UBC057	07/27/2017		100.0000		426.0000
Conductivity	UMHO	UBC058	07/27/2017		110.0000		426.0000
Conductivity	UMHO	UBC059	07/26/2017		100.0000		426.0000
Conductivity	UMHO	UBC060	07/27/2017		155.0000		426.0000
Conductivity	UMHO	UBC061	07/27/2017		100.0000		426.0000
Conductivity	UMHO	UBC062	07/28/2017		110.0000		426.0000
Conductivity	UMHO	UBC063	07/27/2017		100.0000		426.0000
Conductivity	UMHO	UBC10	07/18/2017		120.0000		426.0000
Conductivity	UMHO	UBC11	07/18/2017		110.0000		426.0000
Conductivity	UMHO	UBC12	07/19/2017		120.0000		426.0000
Conductivity	UMHO	UBC13	07/19/2017		120.0000		426.0000
Conductivity	UMHO	UBC14	07/19/2017		110.0000		426.0000
Conductivity	UMHO	UBC15AR	07/21/2017		110.0000		426.0000
Conductivity	UMHO	UBC16	07/24/2017		120.0000		426.0000
Conductivity	UMHO	UBC17	07/25/2017		100.0000		426.0000
Conductivity	UMHO	UBC18	07/25/2017		100.0000		426.0000
Conductivity	UMHO	UBC22AR	07/20/2017		110.0000		426.0000
Conductivity	UMHO	UBC24	07/21/2017		110.0000		426.0000
Conductivity	UMHO	UBC26	07/21/2017		120.0000		426.0000
Conductivity	UMHO	UBC29AR	07/24/2017		100.0000		426.0000
Conductivity	UMHO	UBC30	07/25/2017		120.0000		426.0000
Conductivity	UMHO	UBC31	07/25/2017		100.0000		426.0000
Conductivity	UMHO	UBC34	07/20/2017		120.0000		426.0000
Conductivity	UMHO	UBC4	07/19/2017		110.0000		426.0000
Conductivity	UMHO	UBC48	07/26/2017		100.0000		426.0000
Conductivity	UMHO	UBC49	07/26/2017		100.0000		426.0000
Conductivity	UMHO	UBC51	07/25/2017		120.0000		426.0000
Conductivity	UMHO	UBC52	07/25/2017		100.0000		426.0000
Conductivity	UMHO	UBC53	07/18/2017		120.0000		426.0000
Lead	UG/L	PBC004	07/24/2017	ND	10.0000		25.0000
Lead	UG/L	UBC019	07/28/2017	ND	10.0000		25.0000
Lead	UG/L	UBC057	07/27/2017	ND	10.0000		25.0000
Lead	UG/L	UBC058	07/27/2017	ND	10.0000		25.0000

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Table 2

Most Current Downgradient Monitoring Data

Constituent	Units	Well	Date		Result		Pred. Limit
Lead	UG/L	UBC059	07/26/2017	ND	10.0000		25.0000
Lead	UG/L	UBC060	07/27/2017	ND	10.0000		25.0000
Lead	UG/L	UBC061	07/27/2017	ND	10.0000		25.0000
Lead	UG/L	UBC062	07/28/2017	ND	10.0000		25.0000
Lead	UG/L	UBC063	07/27/2017	ND	10.0000		25.0000
Lead	UG/L	UBC10	07/18/2017	ND	10.0000		25.0000
Lead	UG/L	UBC11	07/18/2017	ND	10.0000		25.0000
Lead	UG/L	UBC12	07/19/2017	ND	10.0000		25.0000
Lead	UG/L	UBC13	07/19/2017	ND	10.0000		25.0000
Lead	UG/L	UBC14	07/19/2017	ND	10.0000		25.0000
Lead	UG/L	UBC15AR	07/21/2017	ND	10.0000		25.0000
Lead	UG/L	UBC16	07/24/2017	ND	10.0000		25.0000
Lead	UG/L	UBC17	07/25/2017	ND	10.0000		25.0000
Lead	UG/L	UBC18	07/25/2017	ND	10.0000		25.0000
Lead	UG/L	UBC22AR	07/20/2017	ND	10.0000		25.0000
Lead	UG/L	UBC24	07/21/2017	ND	10.0000		25.0000
Lead	UG/L	UBC26	07/21/2017	ND	10.0000		25.0000
Lead	UG/L	UBC29AR	07/24/2017	ND	10.0000		25.0000
Lead	UG/L	UBC30	07/25/2017	ND	10.0000		25.0000
Lead	UG/L	UBC31	07/25/2017	ND	10.0000		25.0000
Lead	UG/L	UBC34	07/20/2017	ND	10.0000		25.0000
Lead	UG/L	UBC4	07/19/2017	ND	10.0000		25.0000
Lead	UG/L	UBC48	07/26/2017	ND	10.0000		25.0000
Lead	UG/L	UBC49	07/26/2017	ND	10.0000		25.0000
Lead	UG/L	UBC51	07/25/2017	ND	10.0000		25.0000
Lead	UG/L	UBC52	07/25/2017	ND	10.0000		25.0000
Lead	UG/L	UBC53	07/18/2017	ND	10.0000		25.0000
Mercury	UG/L	PBC004	07/24/2017	ND	0.2000		0.2590
Mercury	UG/L	UBC019	07/28/2017	ND	0.2000		0.2590
Mercury	UG/L	UBC057	07/27/2017	ND	0.2000		0.2590
Mercury	UG/L	UBC058	07/27/2017	ND	0.2000		0.2590
Mercury	UG/L	UBC059	07/26/2017	ND	0.2000		0.2590
Mercury	UG/L	UBC060	07/27/2017	ND	0.2000		0.2590
Mercury	UG/L	UBC061	07/27/2017	ND	0.2000		0.2590
Mercury	UG/L	UBC062	07/28/2017	ND	0.2000		0.2590
Mercury	UG/L	UBC063	07/27/2017	ND	0.2000		0.2590
Mercury	UG/L	UBC10	07/18/2017	ND	0.2000		0.2590
Mercury	UG/L	UBC11	07/18/2017	ND	0.2000		0.2590
Mercury	UG/L	UBC12	07/19/2017	ND	0.2000		0.2590
Mercury	UG/L	UBC13	07/19/2017	ND	0.2000		0.2590
Mercury	UG/L	UBC14	07/19/2017	ND	0.2000		0.2590
Mercury	UG/L	UBC15AR	07/21/2017	ND	0.2000		0.2590
Mercury	UG/L	UBC16	07/24/2017	ND	0.2000		0.2590
Mercury	UG/L	UBC17	07/25/2017	ND	0.2000		0.2590
Mercury	UG/L	UBC18	07/25/2017	ND	0.2000		0.2590
Mercury	UG/L	UBC22AR	07/20/2017	ND	0.2000		0.2590
Mercury	UG/L	UBC24	07/21/2017	ND	0.2000		0.2590
Mercury	UG/L	UBC26	07/21/2017	ND	0.2000		0.2590
Mercury	UG/L	UBC29AR	07/24/2017	ND	0.2000		0.2590
Mercury	UG/L	UBC30	07/25/2017	ND	0.2000		0.2590
Mercury	UG/L	UBC31	07/25/2017	ND	0.2000		0.2590
Mercury	UG/L	UBC34	07/20/2017	ND	0.2000		0.2590
Mercury	UG/L	UBC4	07/19/2017	ND	0.2000		0.2590

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Table 2

Most Current Downgradient Monitoring Data

Constituent	Units	Well	Date		Result		Pred. Limit
Mercury	UG/L	UBC48	07/26/2017	ND	0.2000		0.2590
Mercury	UG/L	UBC49	07/26/2017	ND	0.2000		0.2590
Mercury	UG/L	UBC51	07/25/2017	ND	0.2000		0.2590
Mercury	UG/L	UBC52	07/25/2017	ND	0.2000		0.2590
Mercury	UG/L	UBC53	07/18/2017	ND	0.2000		0.2590
Nickel	UG/L	PBC004	07/24/2017	ND	40.0000		114.0000
Nickel	UG/L	UBC019	07/28/2017	ND	40.0000		114.0000
Nickel	UG/L	UBC057	07/27/2017	ND	40.0000		114.0000
Nickel	UG/L	UBC058	07/27/2017	ND	40.0000		114.0000
Nickel	UG/L	UBC059	07/26/2017	ND	40.0000		114.0000
Nickel	UG/L	UBC060	07/27/2017	ND	40.0000		114.0000
Nickel	UG/L	UBC061	07/27/2017	ND	40.0000		114.0000
Nickel	UG/L	UBC062	07/28/2017	ND	40.0000		114.0000
Nickel	UG/L	UBC063	07/27/2017	ND	40.0000		114.0000
Nickel	UG/L	UBC10	07/18/2017	ND	40.0000		114.0000
Nickel	UG/L	UBC11	07/18/2017	ND	40.0000		114.0000
Nickel	UG/L	UBC12	07/19/2017	ND	40.0000		114.0000
Nickel	UG/L	UBC13	07/19/2017	ND	40.0000		114.0000
Nickel	UG/L	UBC14	07/19/2017	ND	40.0000		114.0000
Nickel	UG/L	UBC15AR	07/21/2017	ND	40.0000		114.0000
Nickel	UG/L	UBC16	07/24/2017	ND	40.0000		114.0000
Nickel	UG/L	UBC17	07/25/2017	ND	40.0000		114.0000
Nickel	UG/L	UBC18	07/25/2017	ND	40.0000		114.0000
Nickel	UG/L	UBC22AR	07/20/2017	ND	40.0000		114.0000
Nickel	UG/L	UBC24	07/21/2017	ND	40.0000		114.0000
Nickel	UG/L	UBC26	07/21/2017	ND	40.0000		114.0000
Nickel	UG/L	UBC29AR	07/24/2017	ND	40.0000		114.0000
Nickel	UG/L	UBC30	07/25/2017	ND	40.0000		114.0000
Nickel	UG/L	UBC31	07/25/2017	ND	40.0000		114.0000
Nickel	UG/L	UBC34	07/20/2017	ND	40.0000		114.0000
Nickel	UG/L	UBC4	07/19/2017	ND	40.0000		114.0000
Nickel	UG/L	UBC48	07/26/2017	ND	40.0000		114.0000
Nickel	UG/L	UBC49	07/26/2017	ND	40.0000		114.0000
Nickel	UG/L	UBC51	07/25/2017	ND	40.0000		114.0000
Nickel	UG/L	UBC52	07/25/2017	ND	40.0000		114.0000
Nickel	UG/L	UBC53	07/18/2017	ND	40.0000		114.0000
pH	SU	PBC004	07/24/2017		6.3700		5.80 - 10.61
pH	SU	UBC019	07/28/2017		7.2600		5.80 - 10.61
pH	SU	UBC057	07/27/2017		7.0800		5.80 - 10.61
pH	SU	UBC058	07/27/2017		7.0600		5.80 - 10.61
pH	SU	UBC059	07/26/2017		6.8800		5.80 - 10.61
pH	SU	UBC060	07/27/2017		6.9200		5.80 - 10.61
pH	SU	UBC061	07/27/2017		7.1400		5.80 - 10.61
pH	SU	UBC062	07/28/2017		7.2800		5.80 - 10.61
pH	SU	UBC063	07/27/2017		7.2100		5.80 - 10.61
pH	SU	UBC10	07/18/2017		6.4400		5.80 - 10.61
pH	SU	UBC11	07/18/2017		6.5400		5.80 - 10.61
pH	SU	UBC12	07/19/2017		6.3900		5.80 - 10.61
pH	SU	UBC13	07/19/2017		6.4100		5.80 - 10.61
pH	SU	UBC14	07/19/2017		6.2100		5.80 - 10.61
pH	SU	UBC15AR	07/21/2017		8.8300		5.80 - 10.61
pH	SU	UBC16	07/24/2017		6.4600		5.80 - 10.61
pH	SU	UBC17	07/25/2017		6.6400		5.80 - 10.61

* - Current value failed - awaiting verification.
** - Current value passed - previous exceedance not verified.
*** - Current value failed - exceedance verified.
**** - Current value passed - awaiting one more verification.
***** - Insufficient background data to compute prediction limit.
ND = Not Detected, result = detection limit.

Table 2

Most Current Downgradient Monitoring Data

Constituent	Units	Well	Date		Result		Pred. Limit
pH	SU	UBC18	07/25/2017		6.2400		5.80 - 10.61
pH	SU	UBC22AR	07/20/2017		6.5400		5.80 - 10.61
pH	SU	UBC24	07/21/2017		7.3200		5.80 - 10.61
pH	SU	UBC26	07/21/2017		7.3300		5.80 - 10.61
pH	SU	UBC29AR	07/24/2017		6.6400	**	5.80 - 10.61
pH	SU	UBC30	07/25/2017		5.9700		5.80 - 10.61
pH	SU	UBC31	07/25/2017		6.0600		5.80 - 10.61
pH	SU	UBC34	07/20/2017		6.8100	**	5.80 - 10.61
pH	SU	UBC4	07/19/2017		6.4800		5.80 - 10.61
pH	SU	UBC48	07/26/2017		7.0900		5.80 - 10.61
pH	SU	UBC49	07/26/2017		6.9800		5.80 - 10.61
pH	SU	UBC51	07/25/2017		6.5500		5.80 - 10.61
pH	SU	UBC52	07/25/2017		6.1200		5.80 - 10.61
pH	SU	UBC53	07/18/2017		6.5800		5.80 - 10.61
Zinc	UG/L	PBC004	07/24/2017	ND	20.0000		363.0000
Zinc	UG/L	UBC019	07/28/2017	ND	20.0000		363.0000
Zinc	UG/L	UBC057	07/27/2017	ND	20.0000		363.0000
Zinc	UG/L	UBC058	07/27/2017	ND	20.0000		363.0000
Zinc	UG/L	UBC059	07/26/2017	ND	20.0000		363.0000
Zinc	UG/L	UBC060	07/27/2017	ND	20.0000		363.0000
Zinc	UG/L	UBC061	07/27/2017	ND	20.0000		363.0000
Zinc	UG/L	UBC062	07/28/2017	ND	20.0000		363.0000
Zinc	UG/L	UBC063	07/27/2017	ND	20.0000		363.0000
Zinc	UG/L	UBC10	07/18/2017	ND	20.0000		363.0000
Zinc	UG/L	UBC11	07/18/2017	ND	20.0000		363.0000
Zinc	UG/L	UBC12	07/19/2017	ND	20.0000		363.0000
Zinc	UG/L	UBC13	07/19/2017	ND	20.0000		363.0000
Zinc	UG/L	UBC14	07/19/2017	ND	20.0000		363.0000
Zinc	UG/L	UBC15AR	07/21/2017	ND	20.0000		363.0000
Zinc	UG/L	UBC16	07/24/2017	ND	20.0000		363.0000
Zinc	UG/L	UBC17	07/25/2017	ND	20.0000		363.0000
Zinc	UG/L	UBC18	07/25/2017	ND	20.0000		363.0000
Zinc	UG/L	UBC22AR	07/20/2017	ND	20.0000		363.0000
Zinc	UG/L	UBC24	07/21/2017	ND	20.0000		363.0000
Zinc	UG/L	UBC26	07/21/2017	ND	20.0000		363.0000
Zinc	UG/L	UBC29AR	07/24/2017	ND	20.0000		363.0000
Zinc	UG/L	UBC30	07/25/2017	ND	20.0000		363.0000
Zinc	UG/L	UBC31	07/25/2017	ND	20.0000		363.0000
Zinc	UG/L	UBC34	07/20/2017	ND	20.0000		363.0000
Zinc	UG/L	UBC4	07/19/2017	ND	20.0000		363.0000
Zinc	UG/L	UBC48	07/26/2017	ND	20.0000		363.0000
Zinc	UG/L	UBC49	07/26/2017	ND	20.0000		363.0000
Zinc	UG/L	UBC51	07/25/2017	ND	20.0000		363.0000
Zinc	UG/L	UBC52	07/25/2017	ND	20.0000		363.0000
Zinc	UG/L	UBC53	07/18/2017	ND	20.0000		363.0000

* - Current value failed - awaiting verification.
** - Current value passed - previous exceedance not verified.
*** - Current value failed - exceedance verified.
**** - Current value passed - awaiting one more verification.
***** - Insufficient background data to compute prediction limit.
ND = Not Detected, result = detection limit.

Table 3

Detection Frequencies in Upgradient and Downgradient Wells

Constituent	Detect	Upgradient N	Proportion	Detect	Downgradient N	Proportion
Arsenic	1	590	0.002	44	840	0.052
Barium	478	589	0.812	128	831	0.154
Cadmium	1	590	0.002	0	831	0.000
Chromium	2	590	0.003	3	831	0.004
Conductivity	578	578	1.000	848	848	1.000
Lead	0	590	0.000	0	831	0.000
Mercury	3	590	0.005	4	830	0.005
Nickel	1	590	0.002	0	831	0.000
pH	583	583	1.000	848	848	1.000
Zinc	24	590	0.041	33	831	0.040

N = Total number of measurements in all wells.
Detect = Total number of detections in all wells.
Proportion = Detect/N.

Table 4

Shapiro Wilk Test of Normality for Multiple Groups

Constituent	N (Detects)	Detect Freq	G raw	G log	Critical Value	Limit Type
Arsenic	1	0.002				nonpar
Barium	478	0.812	8.099	9.361	2.326	nonpar
Cadmium	1	0.002				nonpar
Chromium	2	0.003				nonpar
Conductivity	578	1.000	5.698	7.454	2.326	nonpar
Lead	0	0.000				nonpar
Mercury	3	0.005	0.495	0.495	2.326	nonpar
Nickel	1	0.002				nonpar
pH	583	1.000	8.897	8.114	2.326	nonpar
Zinc	24	0.041	2.776	1.010	2.326	nonpar

Fit to distribution is confirmed if G < critical value.
If detection frequency is < 50% nonparametric or Poisson limit is used

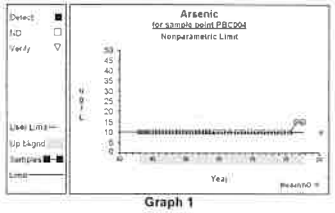
Table 5

Summary Statistics and Prediction Limits

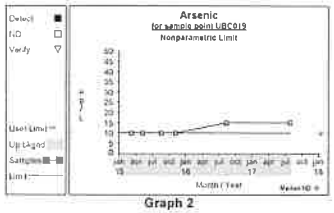
Constituent	Units	Model Type	N	Detect	Mean	SD	Pred Limit	Conf*
Arsenic	ug/L	nonpar	590	1			10.0000	0.99
Barium	UG/L	nonpar	589	478			340.0000	0.99
Cadmium	UG/L	nonpar	590	1			330.0000	0.99
Chromium	UG/L	nonpar	590	2			37.0000	0.99
Conductivity	UMHO	nonpar	578	578			426.0000	0.99
Lead	UG/L	nonpar	590	0			25.0000	0.99
Mercury	UG/L	nonpar	590	3			0.2590	0.99
Nickel	UG/L	nonpar	590	1			114.0000	0.99
pH	SU	nonpar	583	583			5.80- 10.61	0.99
Zinc	UG/L	nonpar	590	24			363.0000	0.99

* - Confidence level for passing initial test or one verification resample at all downgradient wells for a single constituent (nonparametric test only).
Model Type refers to type of prediction limit.
For lognormal limit, mean and sd in natural log units and prediction limit in original units.
All sample sizes and statistics are based on outlier free data.
For nonparametric limits, median reporting limits are substituted for extreme reporting limit values.

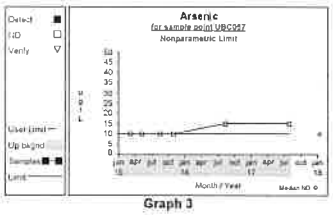
Up vs. Down Prediction Limits



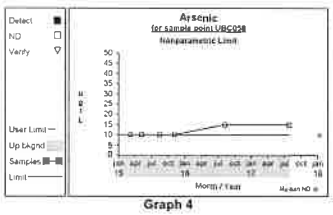
Graph 1



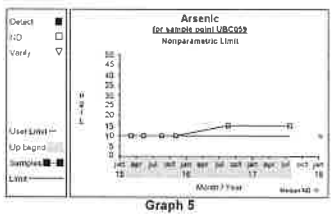
Graph 2



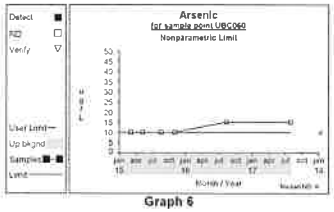
Graph 3



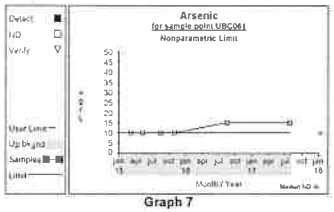
Graph 4



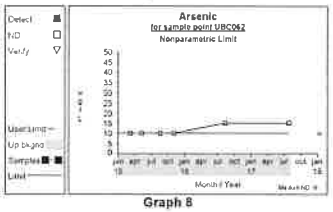
Graph 5



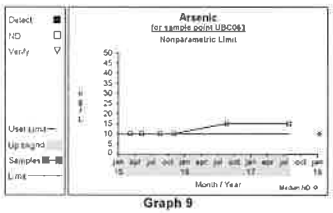
Graph 6



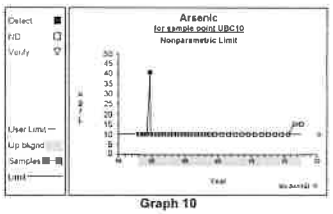
Graph 7



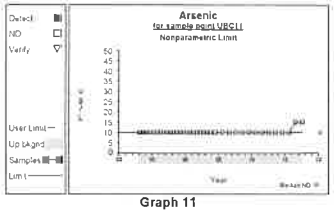
Graph 8



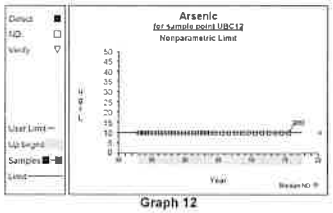
Graph 9



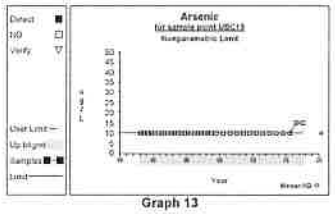
Graph 10



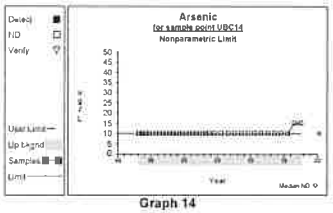
Graph 11



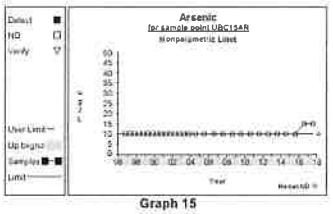
Graph 12



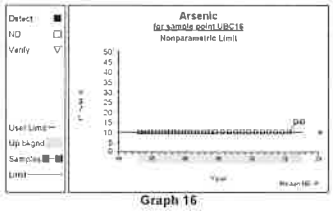
Graph 13



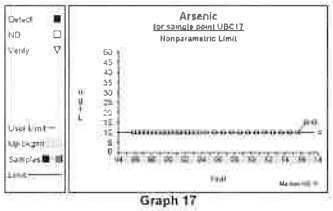
Graph 14



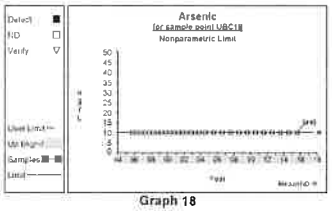
Graph 15



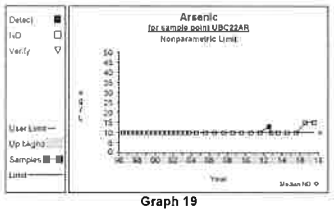
Graph 16



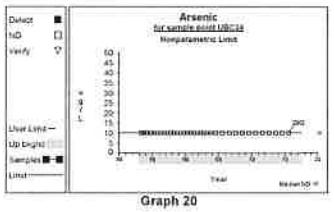
Graph 17



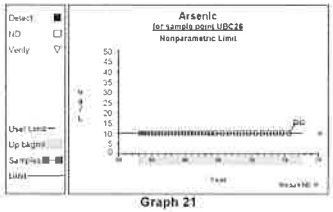
Graph 18



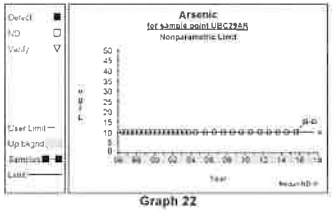
Graph 19



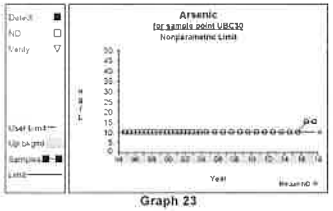
Graph 20



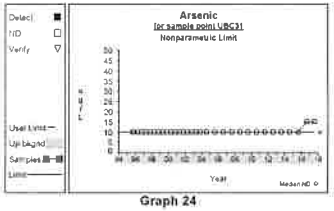
Graph 21



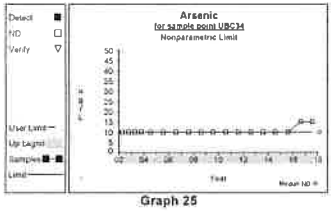
Graph 22



Graph 23

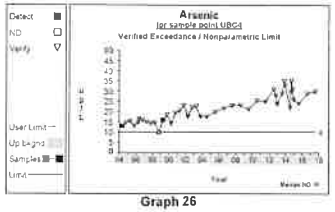


Graph 24

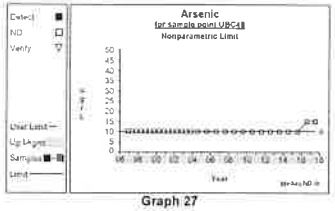


Graph 25

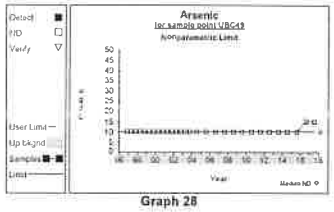
Up vs. Down Prediction Limits



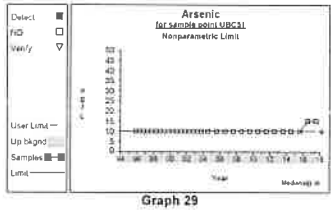
Graph 26



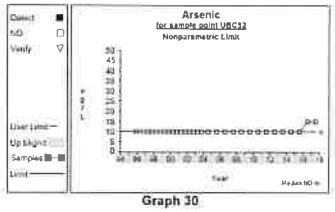
Graph 27



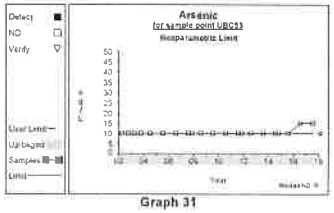
Graph 28



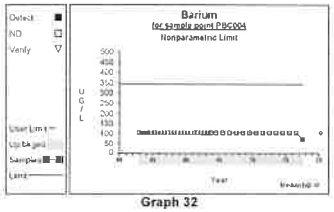
Graph 29



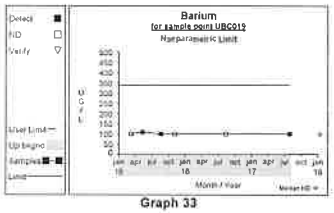
Graph 30



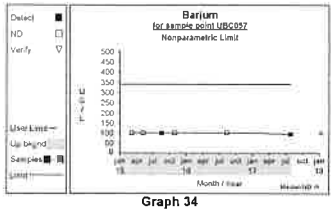
Graph 31



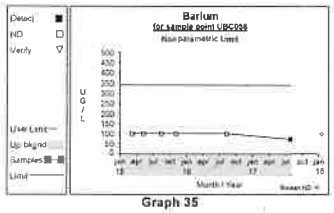
Graph 32



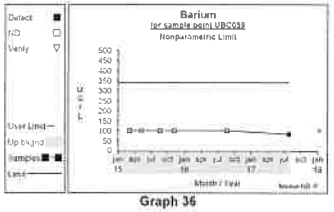
Graph 33



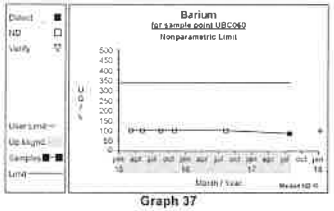
Graph 34



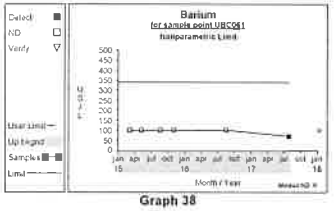
Graph 35



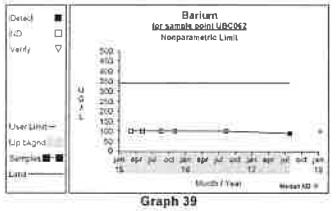
Graph 36



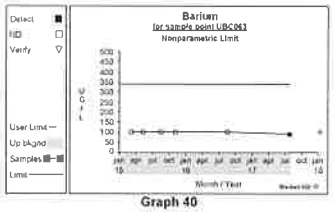
Graph 37



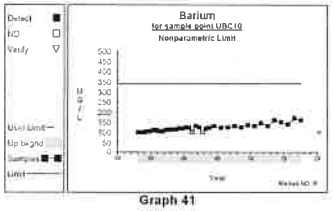
Graph 38



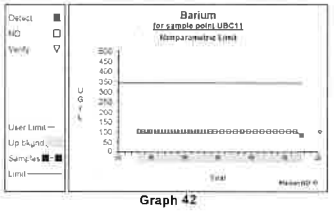
Graph 39



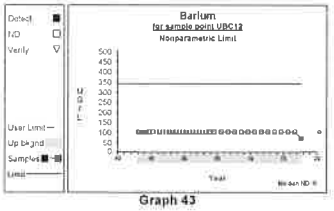
Graph 40



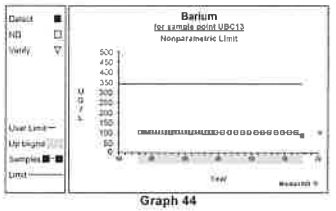
Graph 41



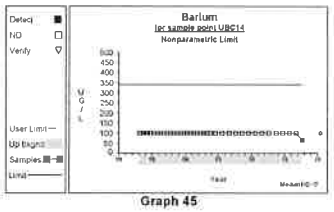
Graph 42



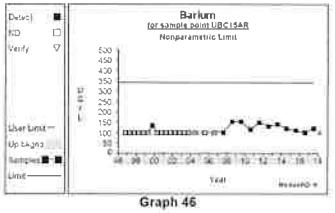
Graph 43



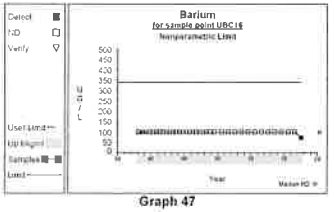
Graph 44



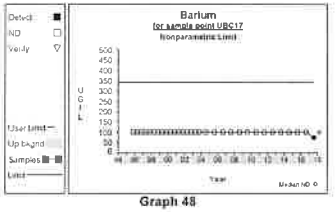
Graph 45



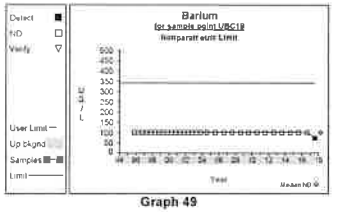
Graph 46



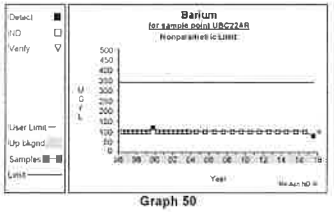
Graph 47



Graph 48

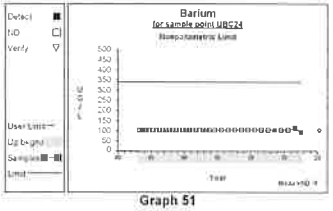


Graph 49

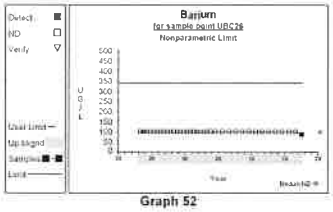


Graph 50

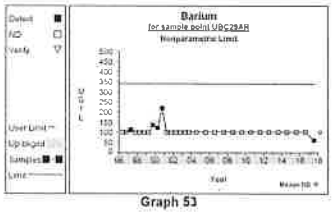
Up vs. Down Prediction Limits



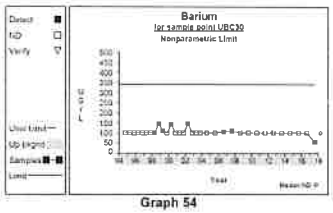
Graph 51



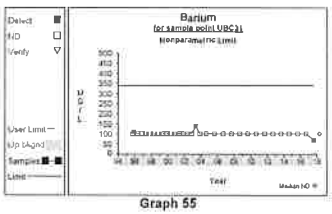
Graph 52



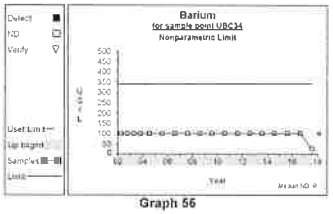
Graph 53



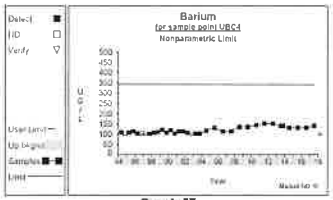
Graph 54



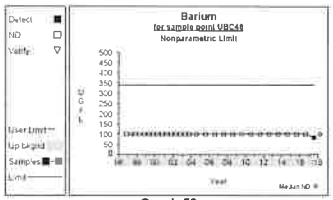
Graph 55



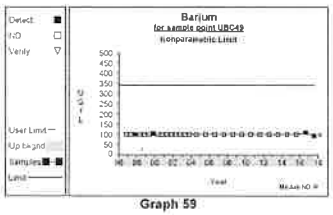
Graph 56



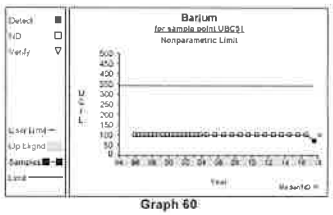
Graph 57



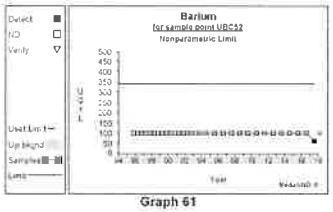
Graph 58



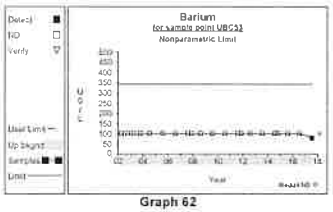
Graph 59



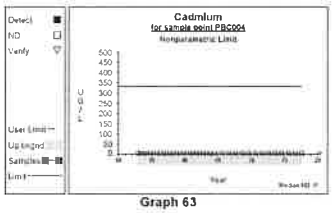
Graph 60



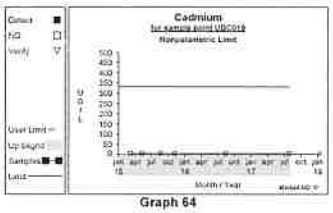
Graph 61



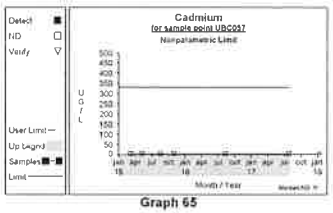
Graph 62



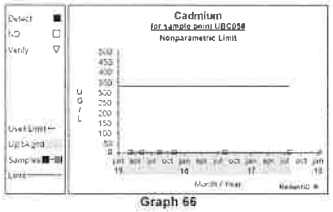
Graph 63



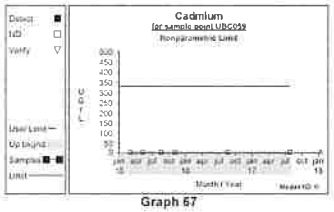
Graph 64



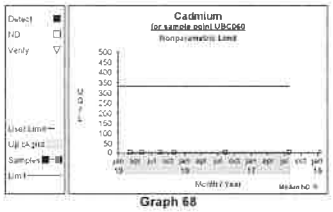
Graph 65



Graph 66



Graph 67



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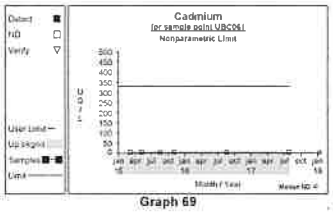
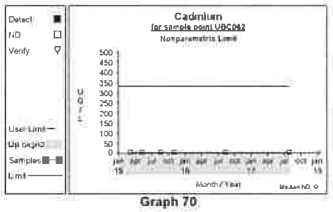


Graph 69



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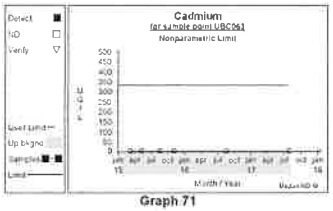
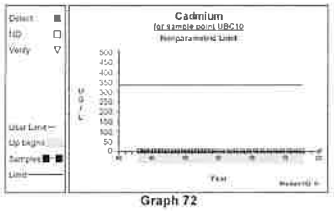
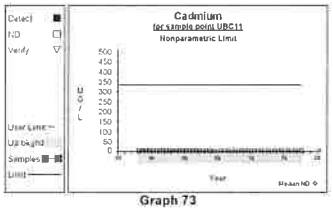


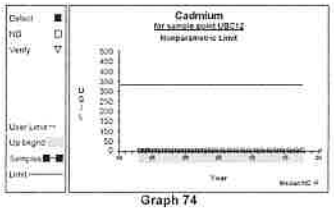
Graph 71



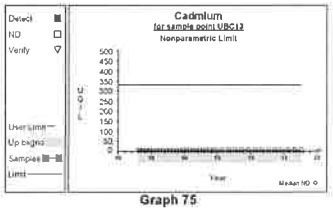
Graph 72



Graph 73

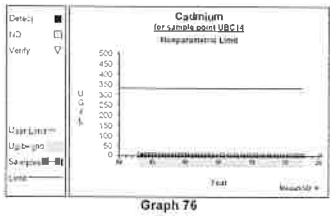


Graph 74

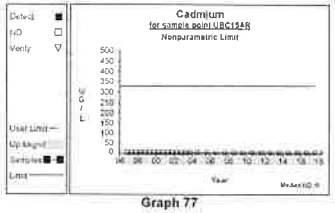


Graph 75

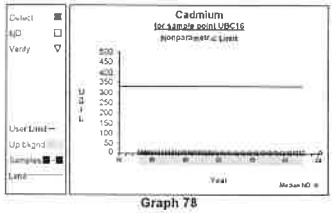
Up vs. Down Prediction Limits



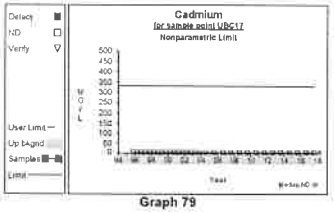
Graph 76



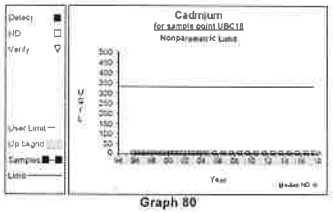
Graph 77



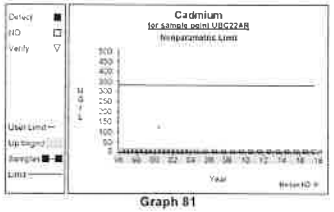
Graph 78



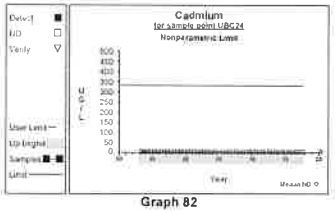
Graph 79



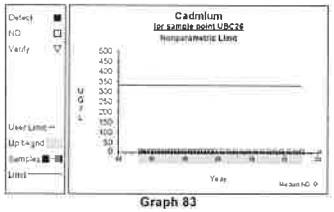
Graph 80



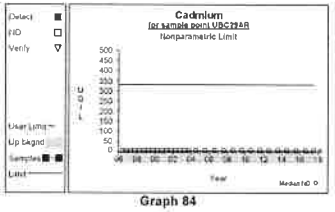
Graph 81



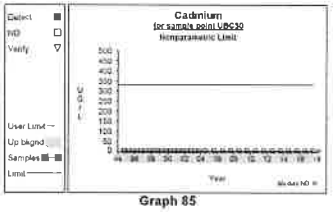
Graph 82



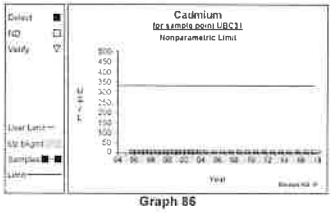
Graph 83



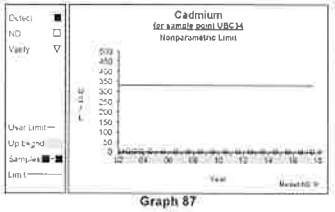
Graph 84



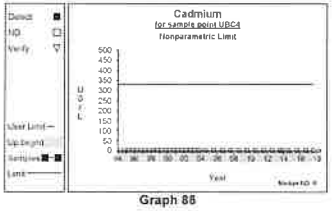
Graph 85



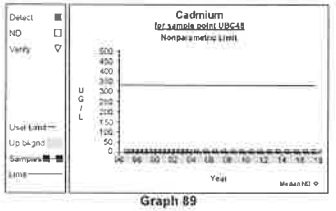
Graph 86



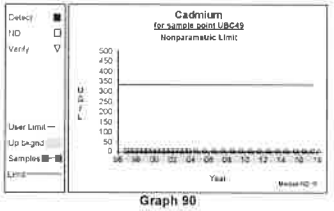
Graph 87



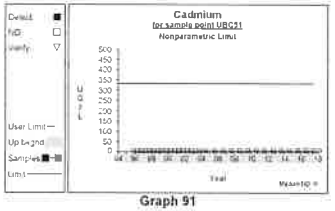
Graph 88



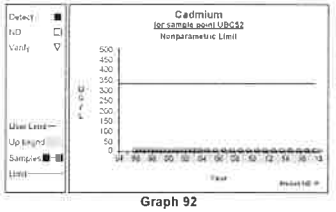
Graph 89



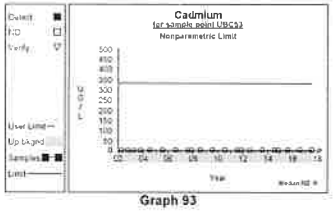
Graph 90



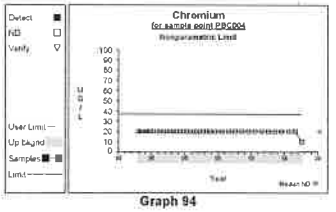
Graph 91



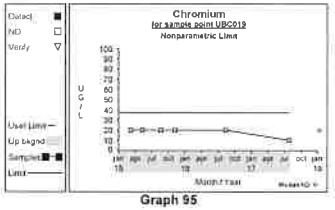
Graph 92



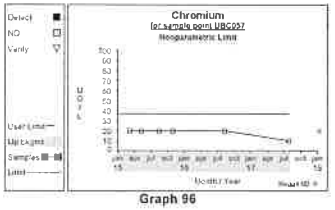
Graph 93



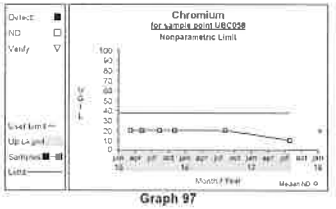
Graph 94



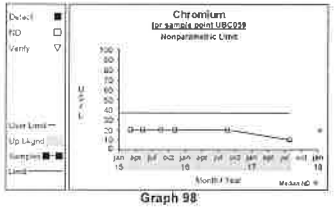
Graph 95



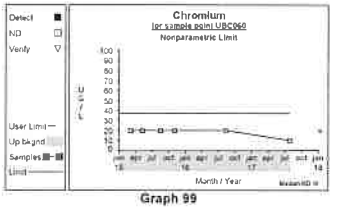
Graph 96



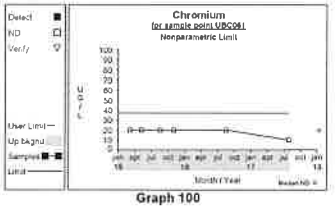
Graph 97



Graph 98

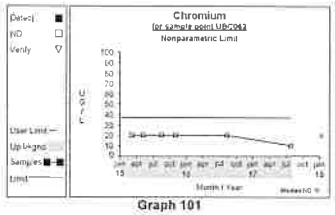


Graph 99

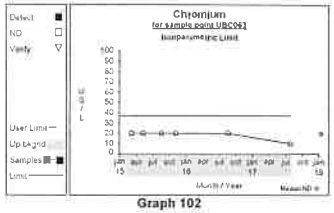


Graph 100

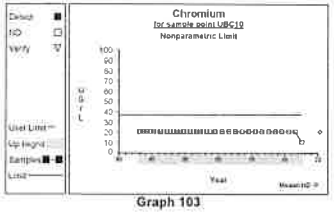
Up vs. Down Prediction Limits



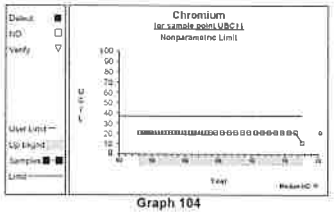
Graph 101



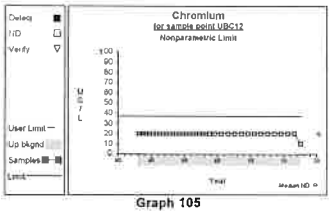
Graph 102



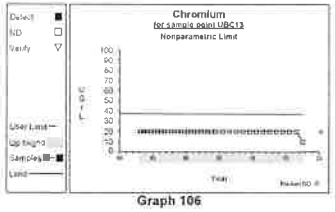
Graph 103



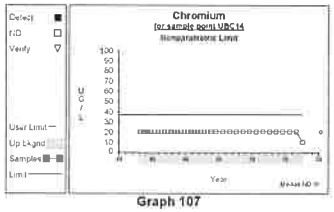
Graph 104



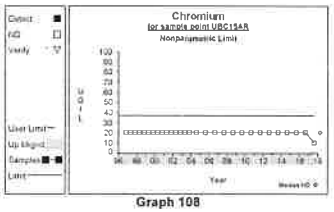
Graph 105



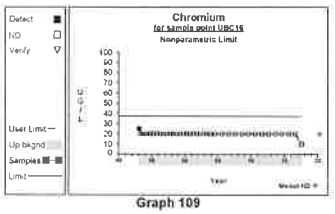
Graph 106



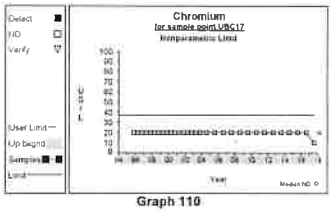
Graph 107



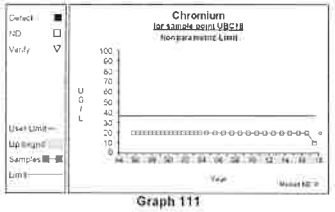
Graph 108



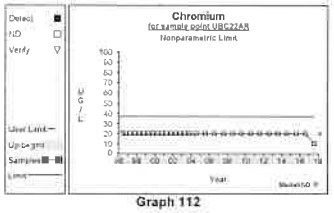
Graph 109



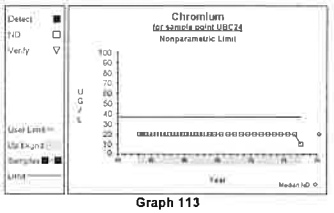
Graph 110



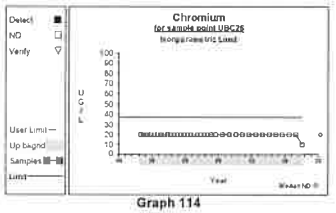
Graph 111



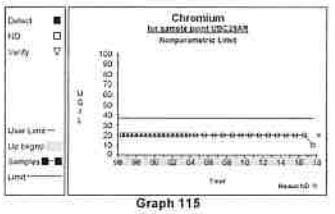
Graph 112



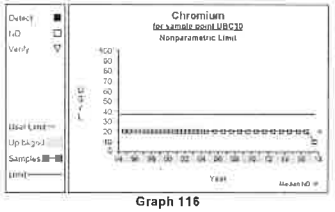
Graph 113



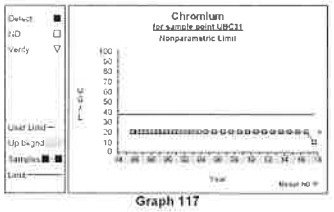
Graph 114



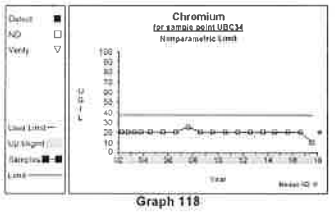
Graph 115



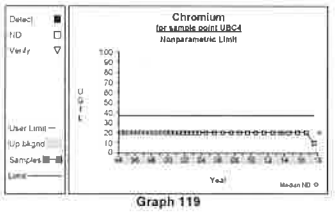
Graph 116



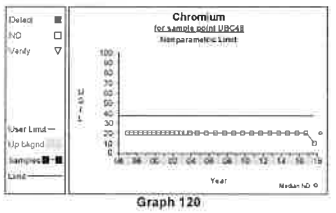
Graph 117



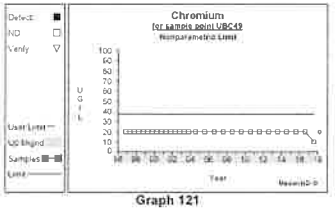
Graph 118



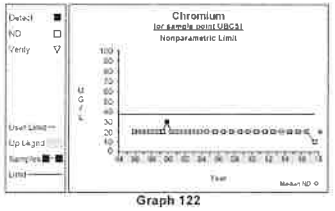
Graph 119



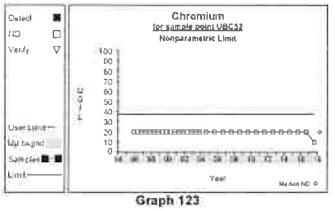
Graph 120



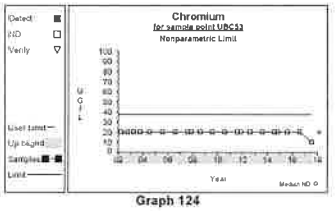
Graph 121



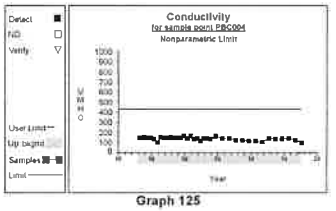
Graph 122



Graph 123

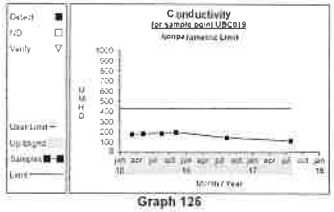


Graph 124

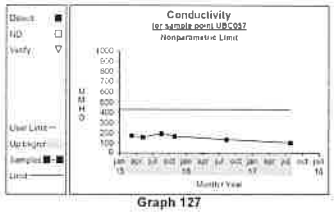


Graph 125

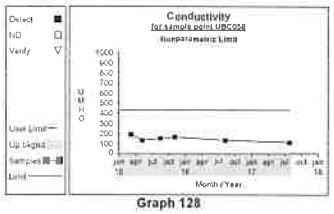
Up vs. Down Prediction Limits



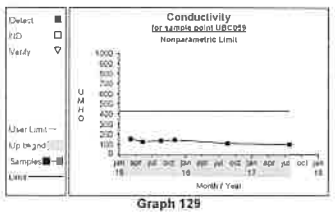
Graph 126



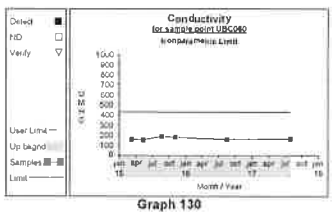
Graph 127



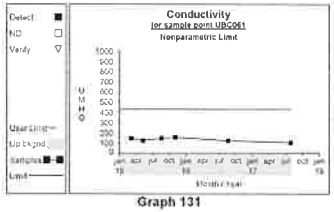
Graph 128



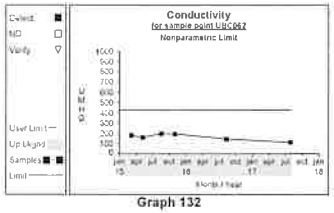
Graph 129



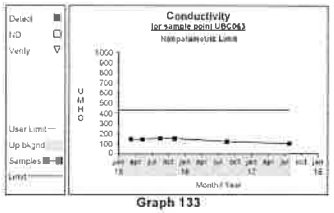
Graph 130



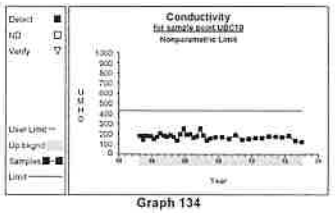
Graph 131



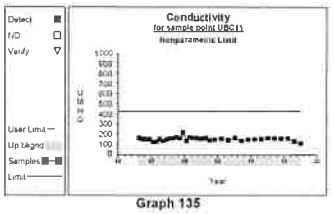
Graph 132



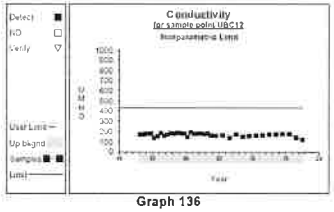
Graph 133



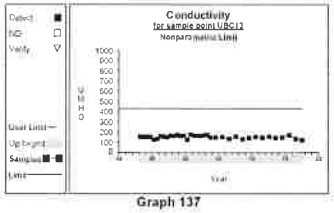
Graph 134



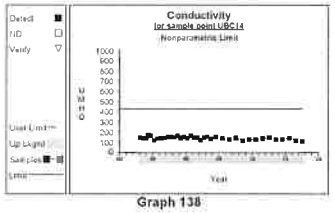
Graph 135



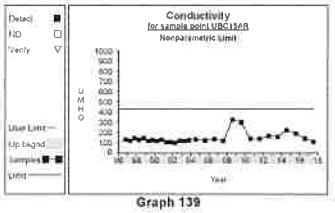
Graph 136



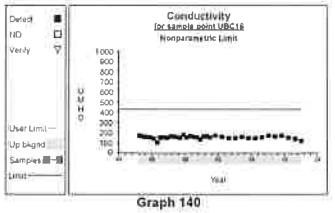
Graph 137



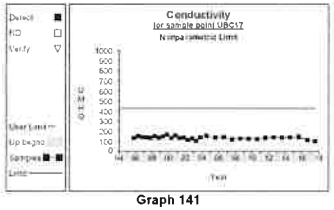
Graph 138



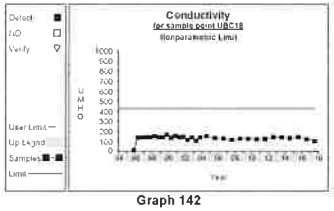
Graph 139



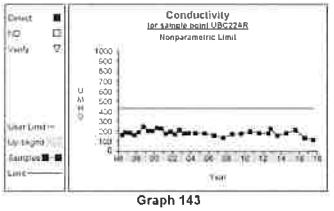
Graph 140



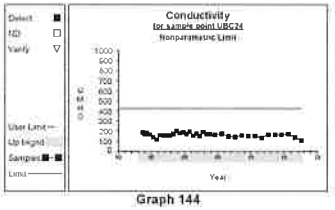
Graph 141



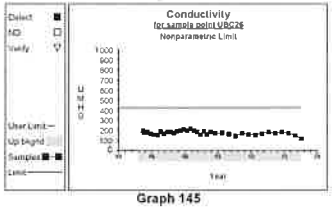
Graph 142



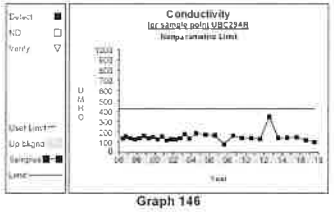
Graph 143



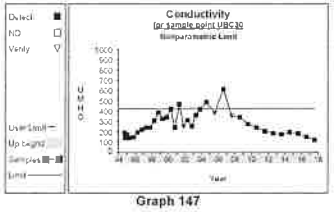
Graph 144



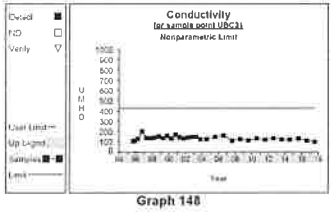
Graph 145



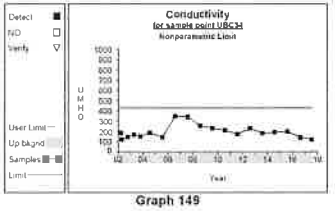
Graph 146



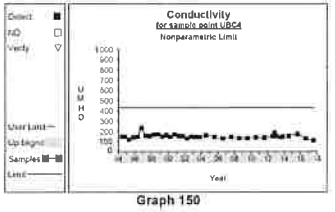
Graph 147



Graph 148

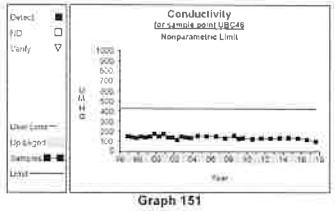


Graph 149

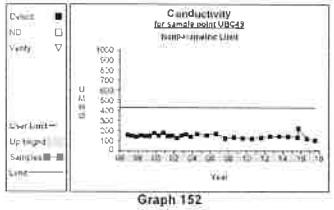


Graph 150

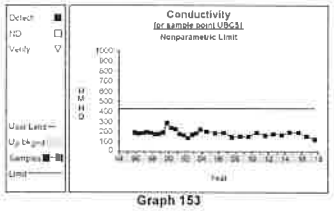
Up vs. Down Prediction Limits



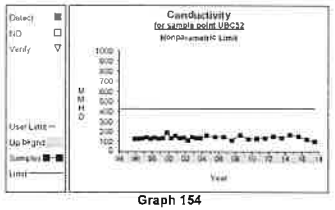
Graph 151



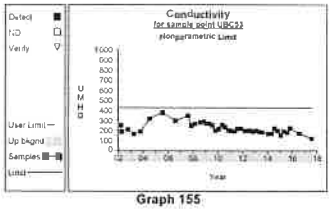
Graph 152



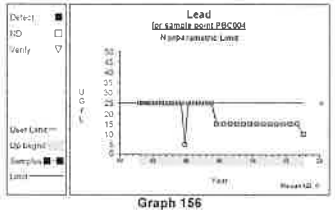
Graph 153



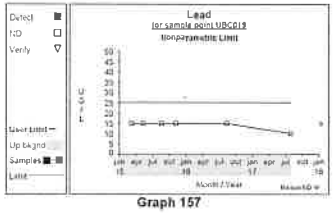
Graph 154



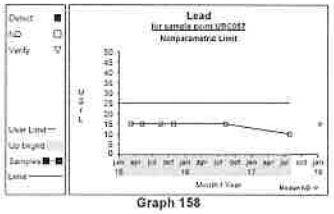
Graph 155



Graph 156

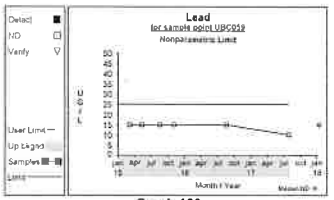


Graph 157

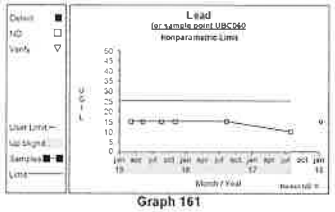


Graph 158

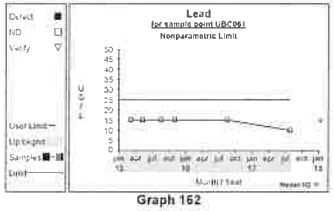
Graph 159



Graph 160



Graph 161



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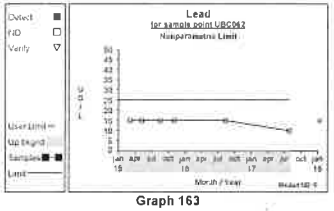

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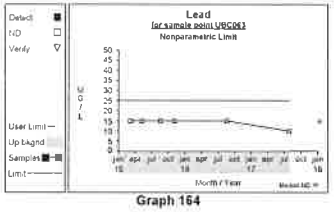

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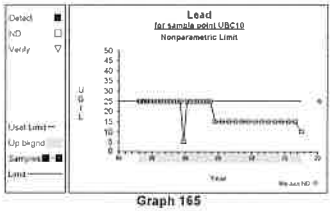
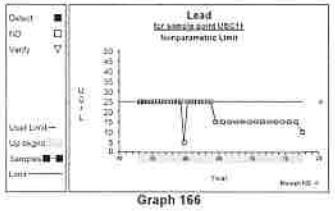
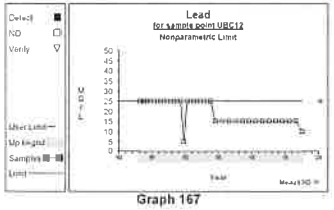


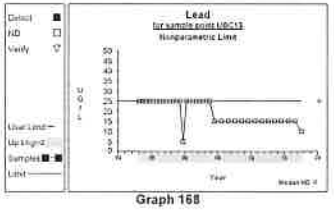
Graph 165



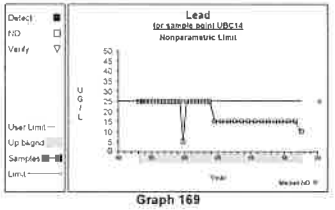
Graph 166



Graph 167



Graph 168



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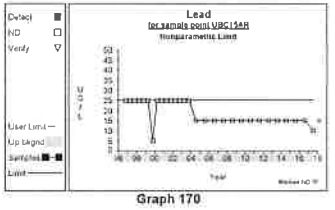

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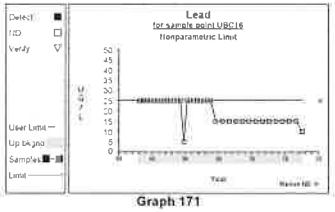
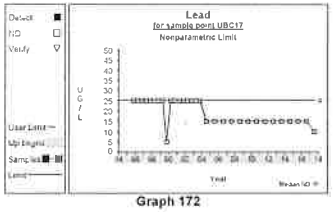


Graph 171



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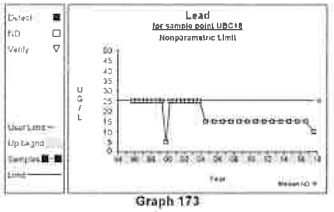

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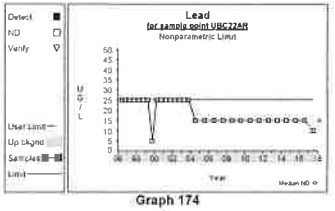
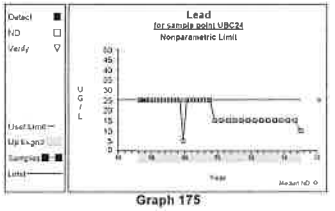
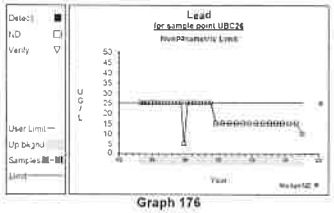


Graph 174

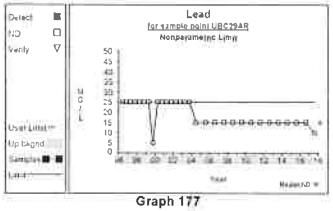


Graph 175

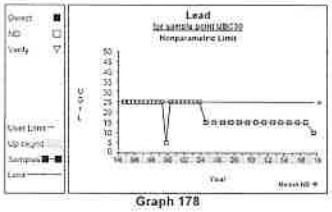
Up vs. Down Prediction Limits



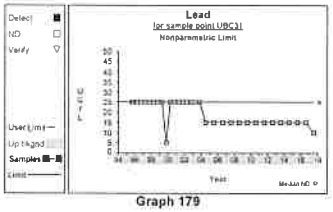
Graph 176



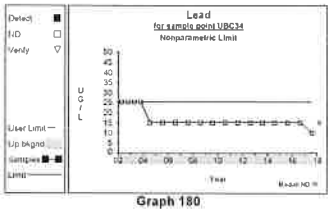
Graph 177



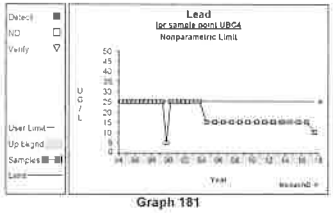
Graph 178



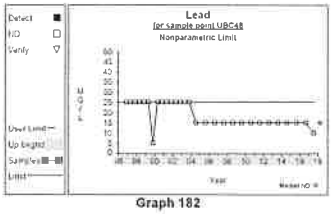
Graph 179



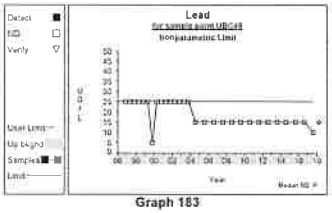
Graph 180



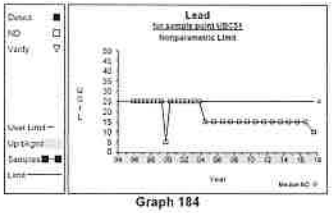
Graph 181



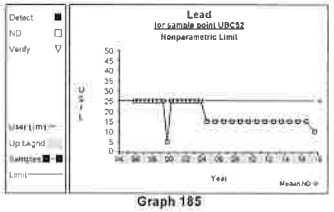
Graph 182



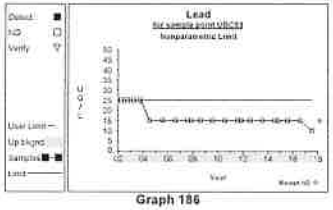
Graph 183



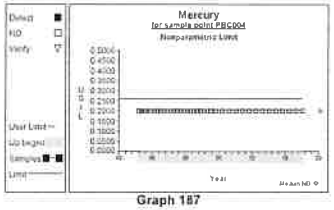
Graph 184



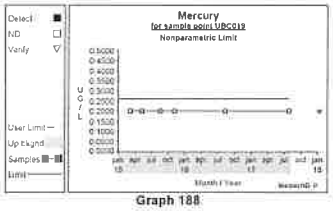
Graph 185



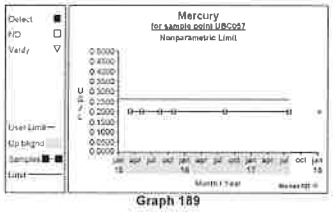
Graph 186



Graph 187



Graph 188



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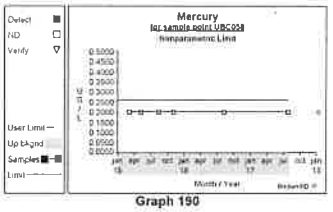
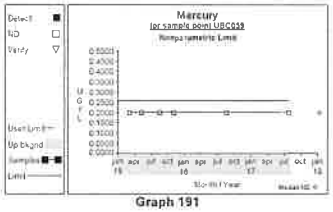


Graph 190



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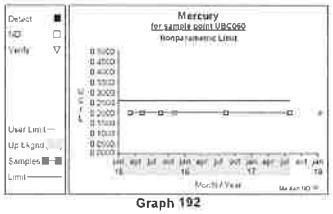

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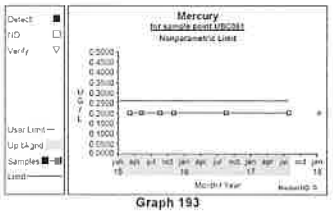
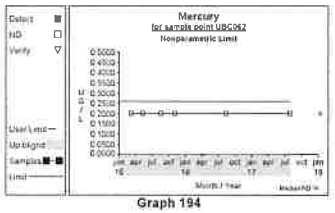
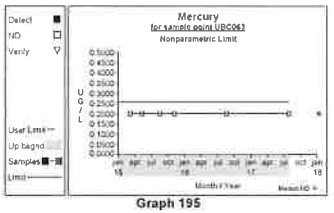


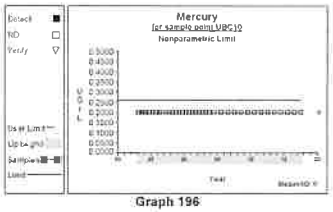
Graph 193



Graph 194



Graph 195



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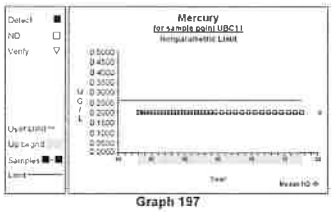

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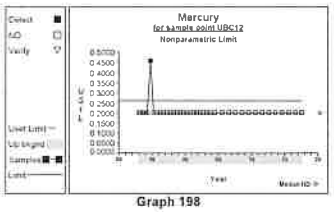
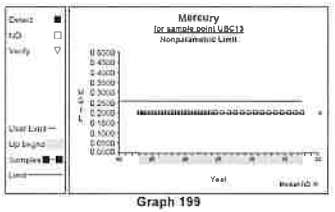
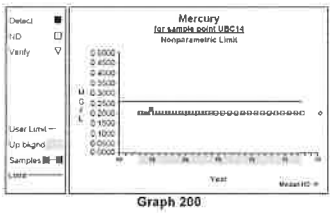


Graph 198

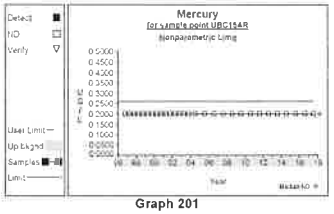


Graph 199

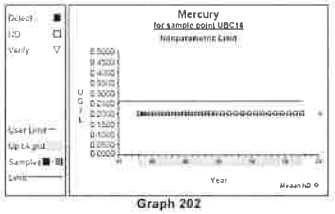


Graph 200

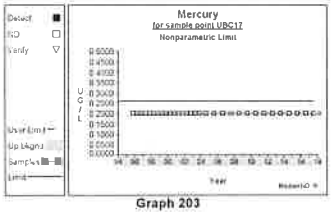
Up vs. Down Prediction Limits



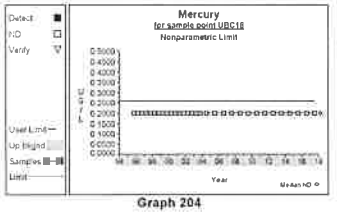
Graph 201



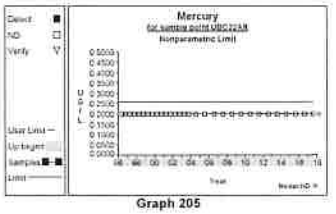
Graph 202



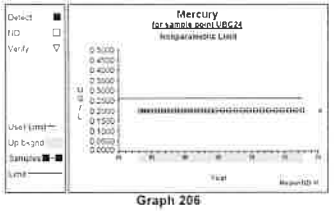
Graph 203



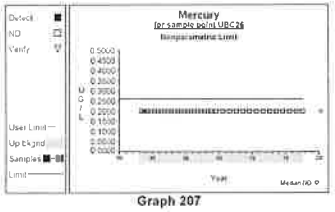
Graph 204



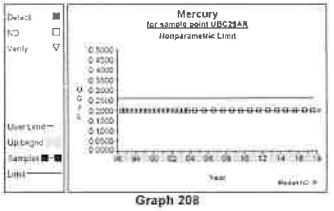
Graph 205



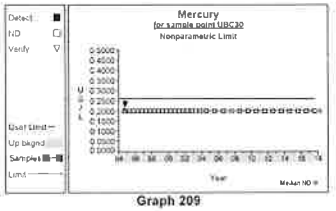
Graph 206



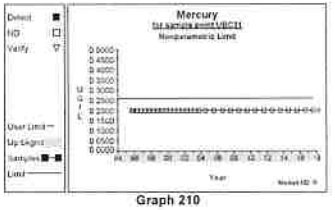
Graph 207



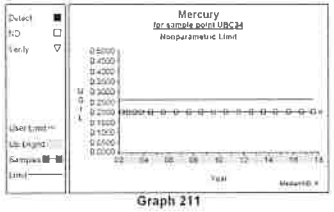
Graph 208



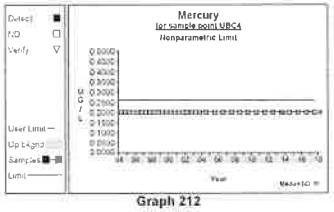
Graph 209



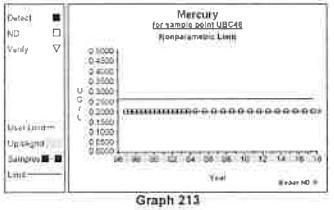
Graph 210



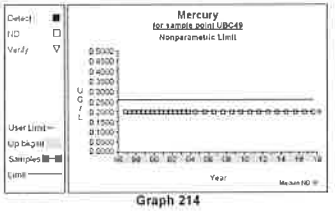
Graph 211



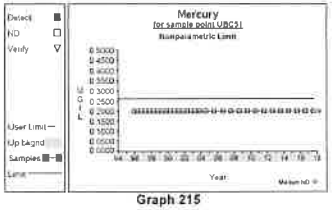
Graph 212



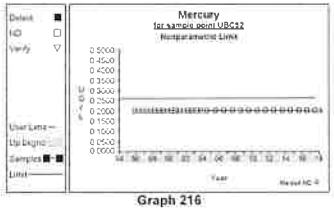
Graph 213



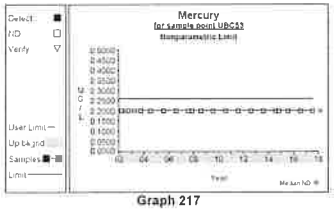
Graph 214



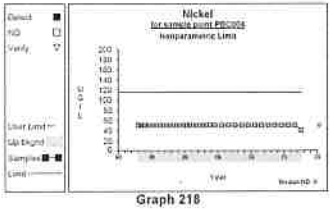
Graph 215



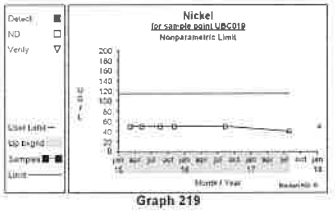
Graph 216



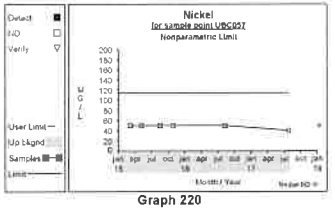
Graph 217



Graph 218



Graph 219



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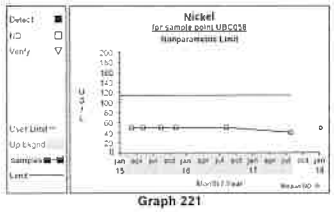

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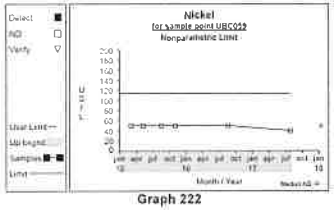

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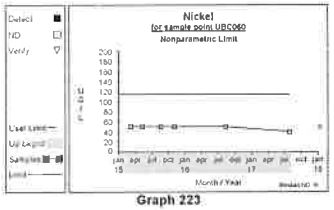

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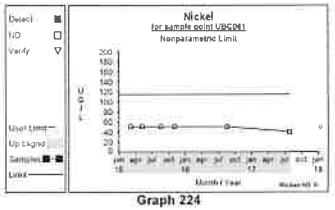
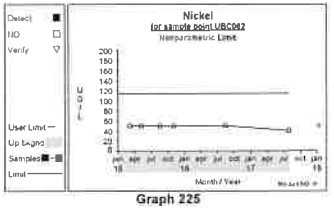
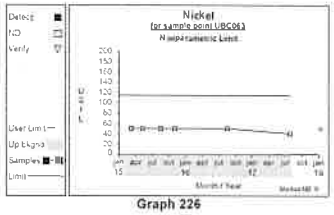


Graph 224

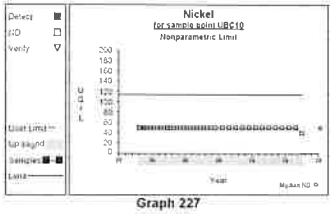


Graph 225

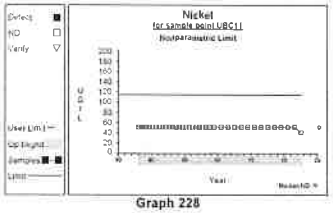
Up vs. Down Prediction Limits



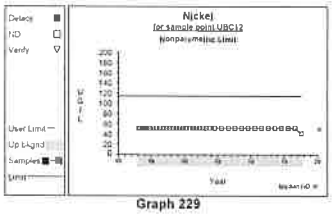
Graph 226



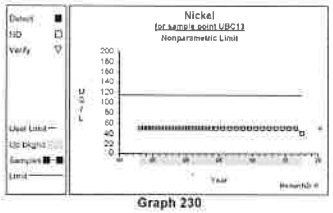
Graph 227



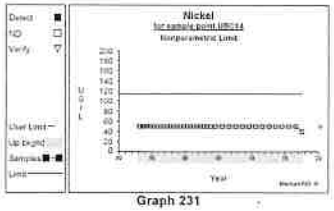
Graph 228



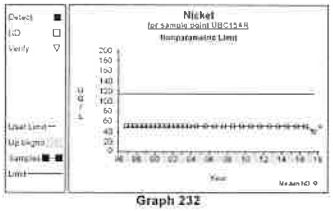
Graph 229



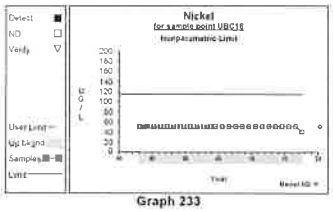
Graph 230



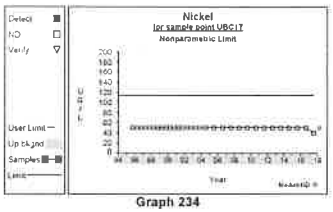
Graph 231



Graph 232



Graph 233



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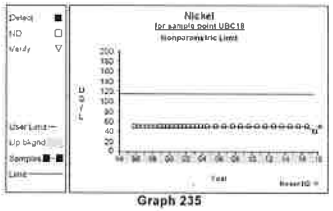
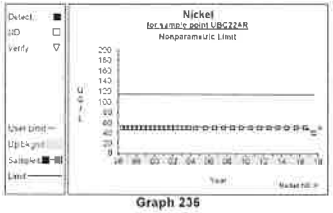
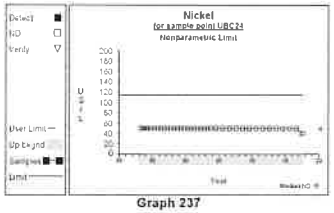


Graph 235



Graph 236



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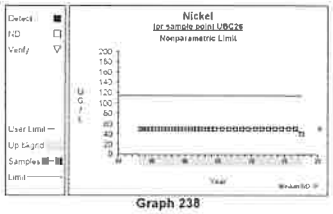

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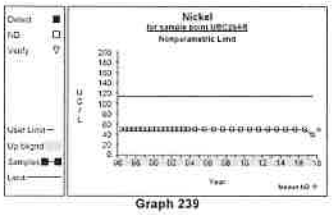

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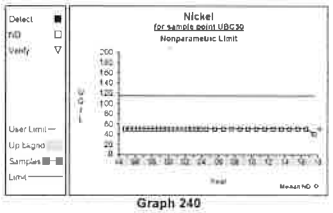

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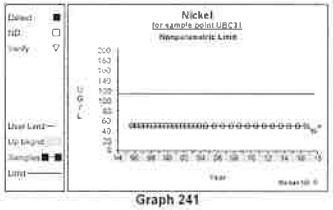
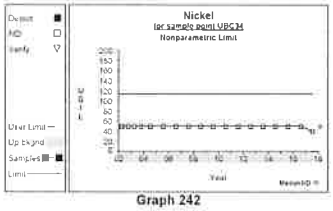


Graph 241



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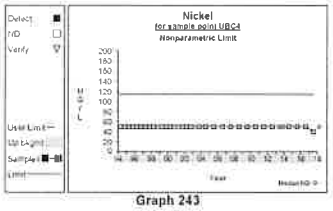
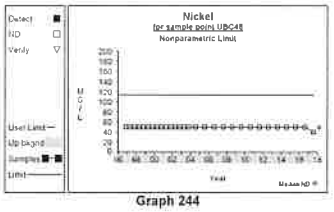
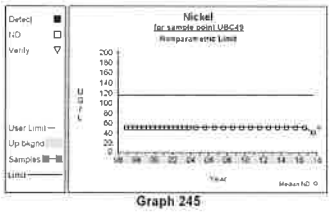


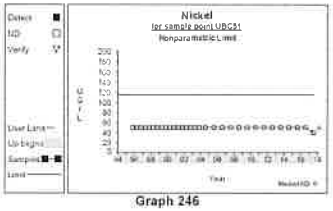
Graph 243



Graph 244



Graph 245



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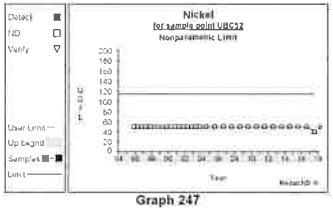

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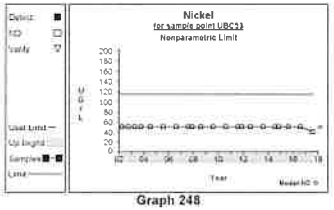

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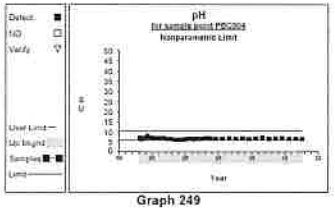
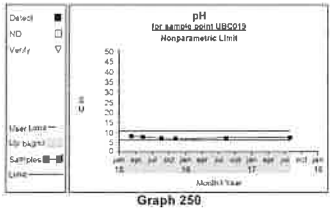
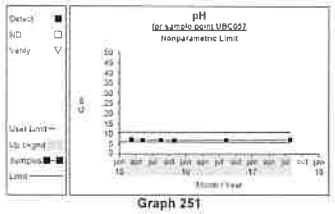


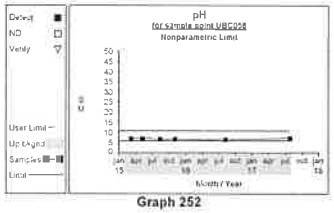
Graph 249

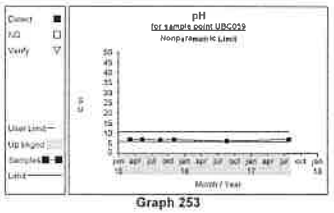


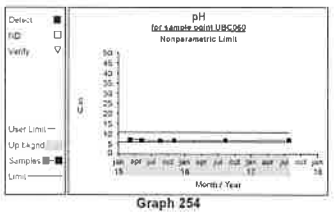
Graph 250

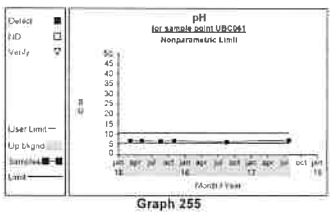
Up vs. Down Prediction Limits

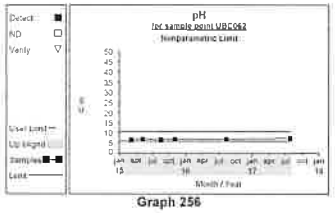

Graph 251

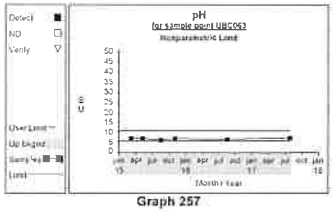

Graph 252

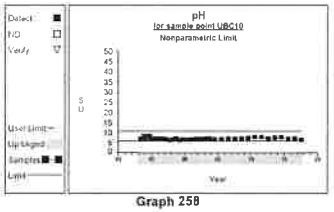

Graph 253

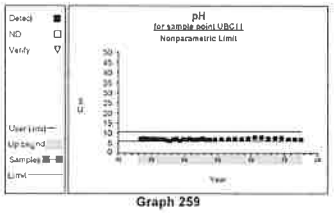

Graph 254

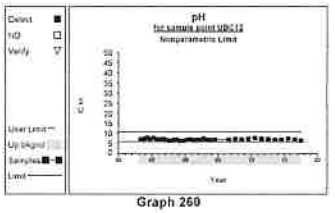

Graph 255

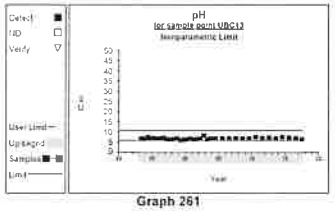

Graph 256

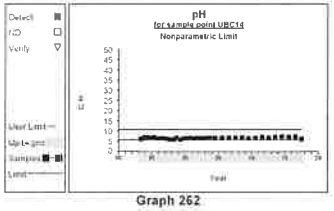

Graph 257

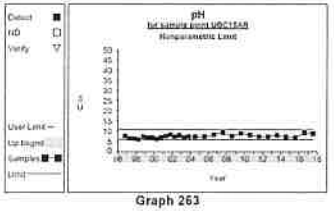

Graph 258

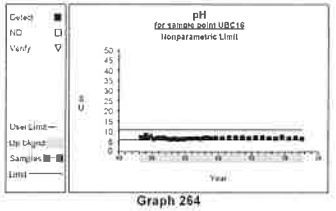

Graph 259

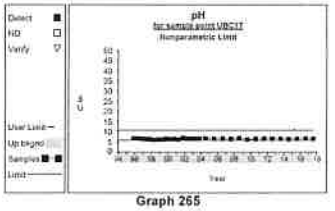

Graph 260

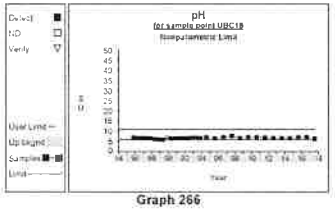

Graph 261

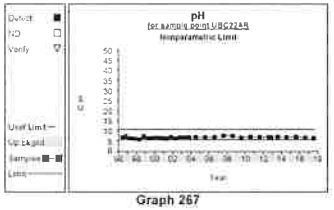

Graph 262

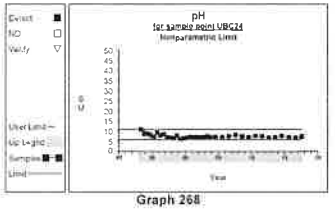

Graph 263

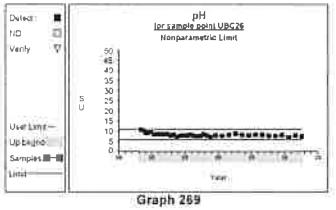

Graph 264

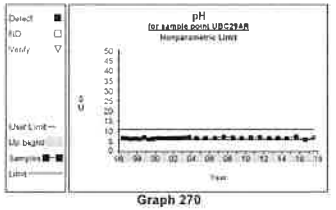

Graph 265

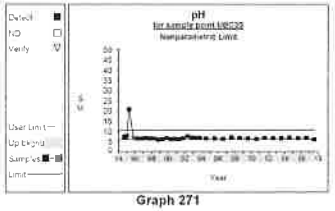

Graph 266

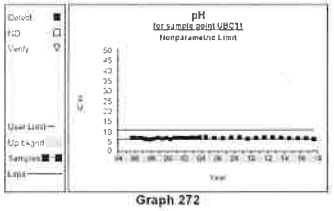

Graph 267

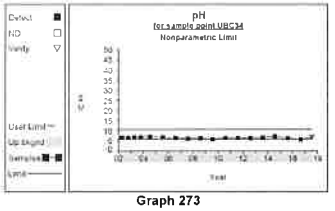

Graph 268

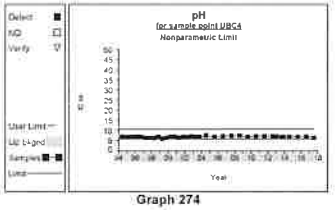

Graph 269

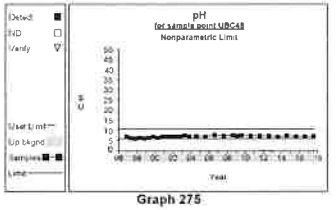

Graph 270


Graph 271

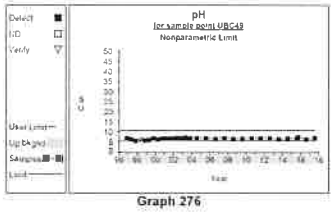

Graph 272


Graph 273

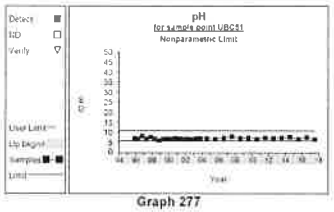

Graph 274


Graph 275

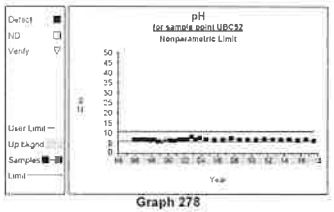
Up vs. Down Prediction Limits



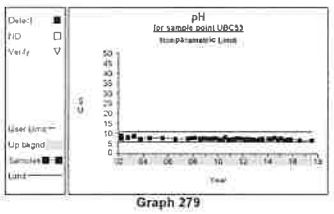
Graph 276



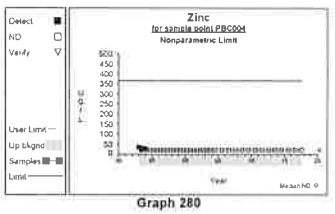
Graph 277



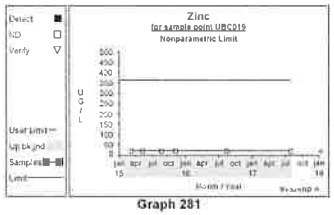
Graph 278



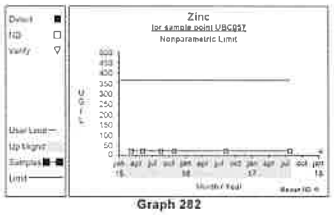
Graph 279



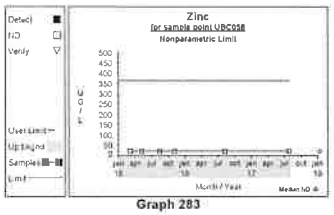
Graph 280



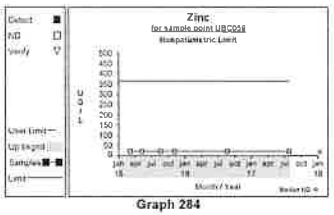
Graph 281



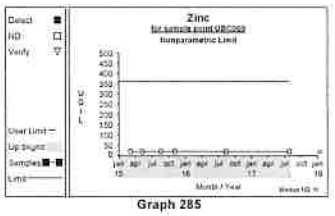
Graph 282



Graph 283



Graph 284



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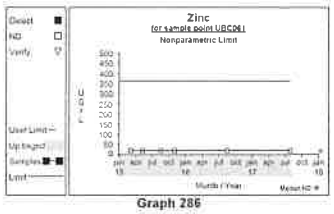

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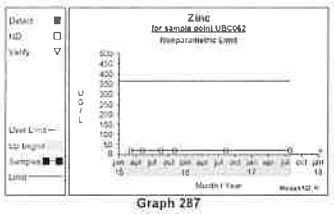

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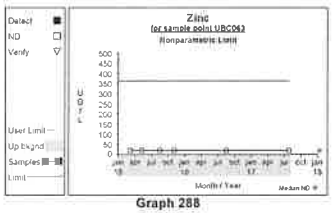
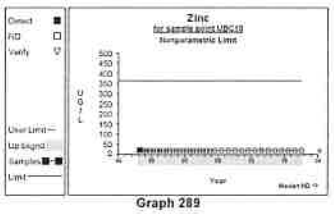


Graph 288



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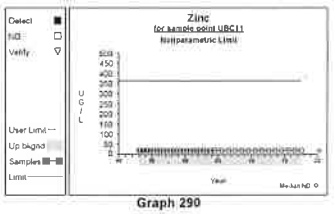

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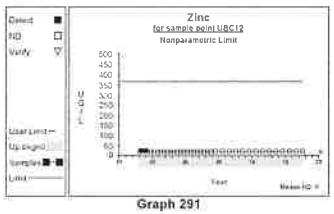

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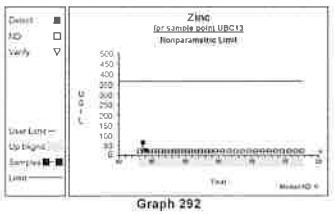

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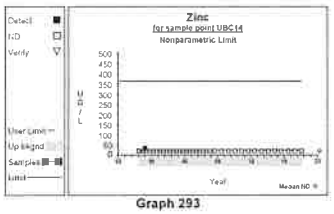

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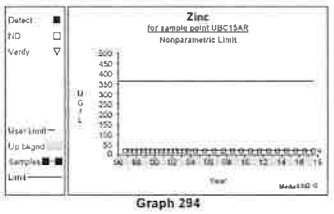

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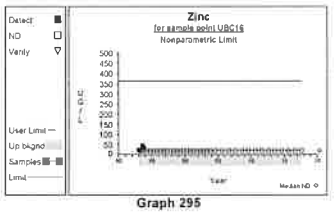
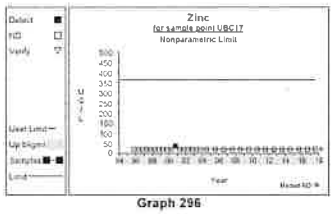


Graph 295



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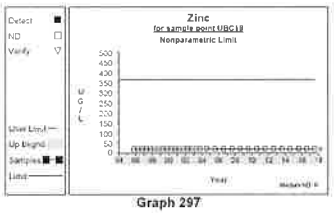
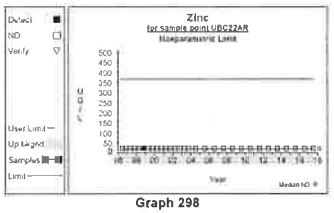
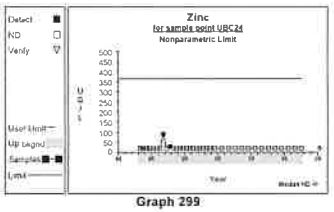


Graph 297



Graph 298



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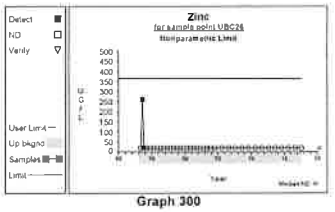
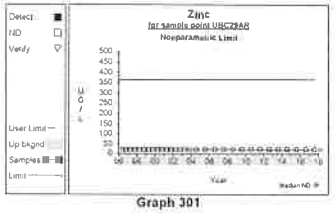
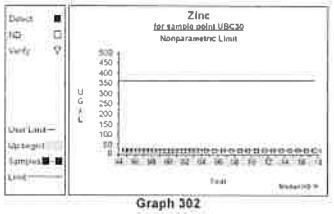


Graph 300

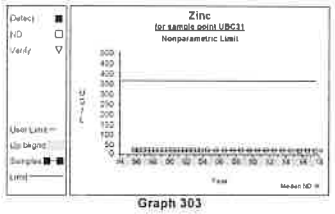
Up vs. Down Prediction Limits



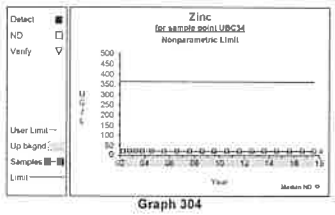
Graph 301



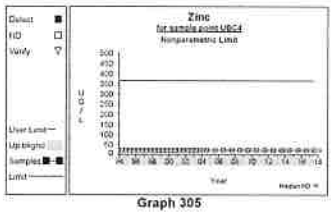
Graph 302



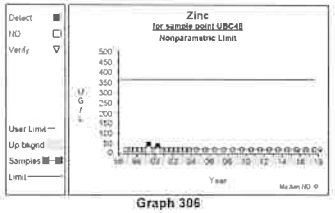
Graph 303



Graph 304



Graph 305



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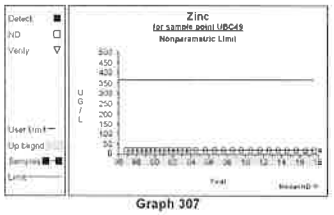
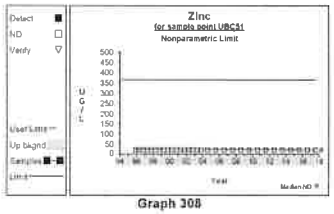
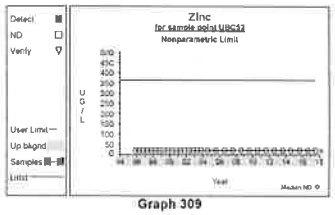


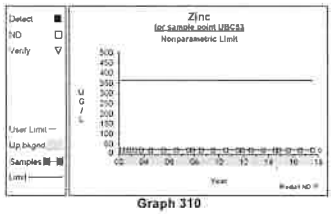
Graph 307



Graph 308

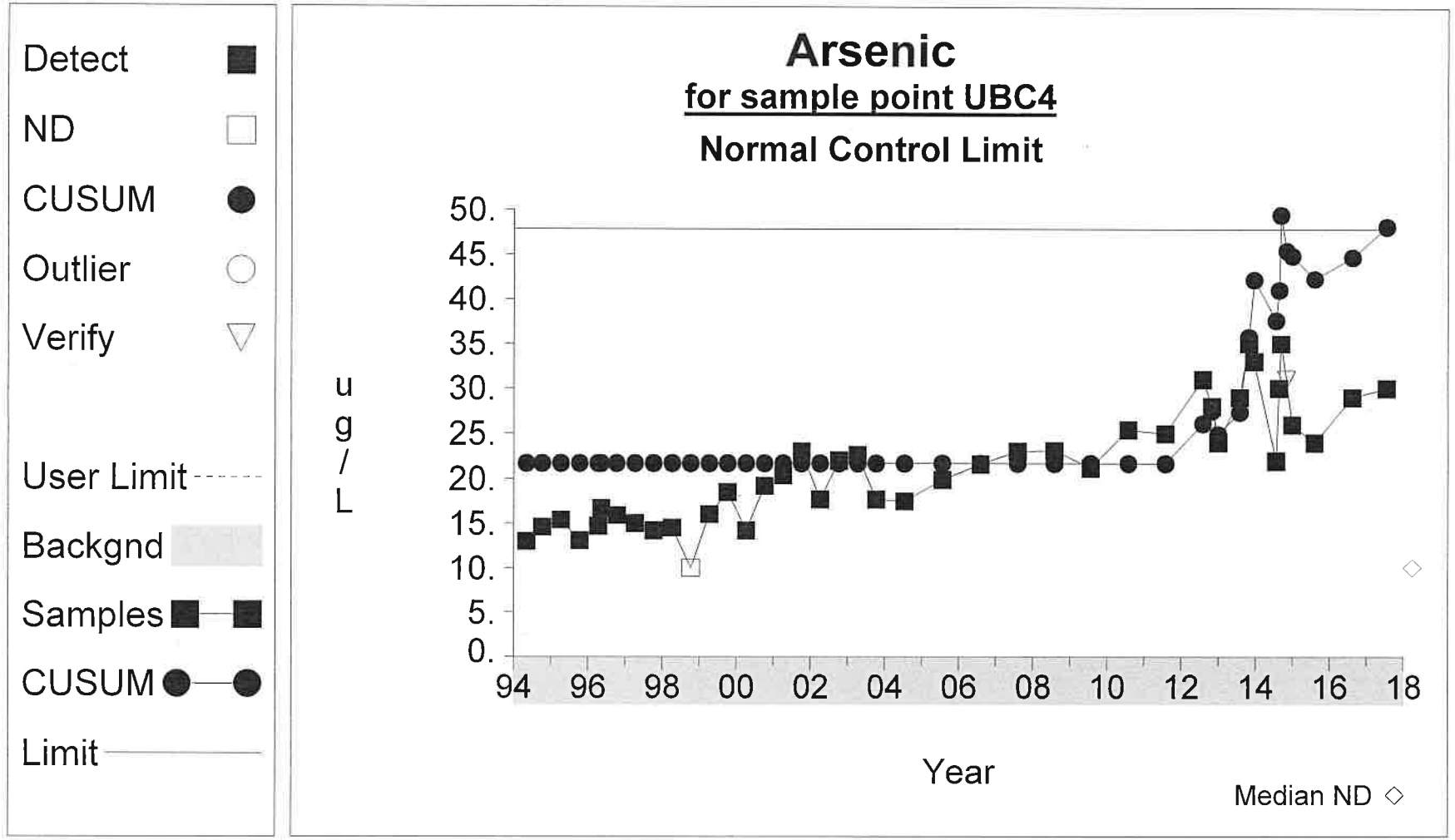


Graph 309



Graph 310

Intra-Well Control Charts



Graph 1

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