

2021 Annual Groundwater Monitoring and Corrective Action Report

Burlington Generating Station
Burlington, Iowa

Prepared for:

Alliant Energy



SCS ENGINEERS

25221066.00 | January 31, 2022

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OVERVIEW OF CURRENT STATUS

Burlington Generating Station, Impoundments 2021 Annual Report

In accordance with §257.90(e)(6), this section at the beginning of the annual report provides an overview of the current status of groundwater monitoring and corrective action programs for the coal combustion residual (CCR) unit. The groundwater monitoring system at the Burlington Generating Station (BGS) impoundments is a multi-unit system. Supporting information is provided in the text of the annual report.

| Category | Rule Requirement | Site Status |
|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Monitoring Status – Start of Year | (i) At the start of the current annual reporting period, whether the CCR unit was operating under the detection monitoring program in §257.94 or the assessment monitoring program in §257.95; | Assessment |
| Monitoring Status – End of Year | (ii) At the end of the current annual reporting period, whether the CCR unit was operating under the detection monitoring program in §257.94 or the assessment monitoring program in §257.95; | Assessment |
| Statistically Significant Increases (SSIs) | (iii) If it was determined that there was an SSI over background for one or more constituents listed in Appendix III to this part pursuant to §257.94(e): | |
| | (A) Identify those constituents listed in Appendix III to this part and the names of the monitoring wells associated with such an increase; and | <p>SSIs initially determined on January 15, 2018, based on October 2017 monitoring results. In 2021, SSIs for semiannual events for compliance wells at waste boundary included the following; see Table 5 for complete results.</p> <p><u>March 2021</u> Field pH: MW-304, MW-306, MW-307, MW-308</p> <p><u>April 2021</u> Boron: MW-301, MW-302, MW-303, MW-304, MW-308, MW-309 Calcium: MW-301 Field pH: MW-302, MW-304, MW-306, MW-307, MW-308 Sulfate: MW-302 Total Dissolved Solids: MW-301</p> |

| Category | Rule Requirement | Site Status |
|----------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | <u>October 2021</u> Boron: MW-301, MW-302, MW-303, MW-304, MW-308, MW-309 Calcium: MW-301 Field pH: MW-302, MW-307, MW-308 Sulfate: MW-301 Total Dissolved Solids: MW-301 |
| | (B) Provide the date when the assessment monitoring program was initiated for the CCR unit. | July 16, 2018 |

| Category | Rule Requirement | Site Status |
|-------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Statistically Significant Levels (SSL) Above Groundwater Protection Standard (GPS) | (iv) If it was determined that there was an SSL above the GPS for one or more constituents listed in Appendix IV to this part pursuant to §257.95(g) include all of the following: | |
| | (A) Identify those constituents listed in Appendix IV to this part and the names of the monitoring wells associated with such an increase; | <p>Lithium: Initially determined to be at SSL above GPS in January 2019 at monitoring wells MW-302, MW-303, MW-304, MW-306, MW-307, and MW-308. In 2021, concentrations determined to be at SSL above the GPS as follows:</p> <p><u>April 2021</u> MW-302, MW-304, MW-307, MW-308</p> <p><u>October 2021</u> MW-302, MW-303, MW-307, MW-308</p> <p>Molybdenum: Initially determined to be at SSL above GPS in January 2019 at monitoring wells MW-301, MW-302, MW-304, MW-307, and MW-308. In 2021, concentrations determined to be at SSL above the GPS as follows:</p> <p><u>April 2021</u> MW-302, MW-307, MW-307A MW-308, MW-312</p> <p><u>October 2021</u> MW-302, MW-307, MW-307A, MW-308, MW-312</p> |
| | (B) Provide the date when the assessment of corrective measures was initiated for the CCR unit; | <p>April 15, 2019</p> |
| | (C) Provide the date when the public meeting was held for the assessment of corrective measures for the CCR unit; and | <p>October 14, 2020</p> <p>An additional public meeting will be held in 2022 prior to remedy selection.</p> |
| | (D) Provide the date when the assessment of corrective measures was completed for the CCR unit. | <p>September 12, 2019 - Original ACM</p> <p>November 25, 2020 – Addendum No. 1 to ACM</p> |

| Category | Rule Requirement | Site Status |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| Selection of Remedy | (v) Whether a remedy was selected pursuant to §257.97 during the current annual reporting period, and if so, the date of remedy selection; and | Selection of remedy is in progress |
| Corrective Action | (vi) Whether remedial activities were initiated or are ongoing pursuant to §257.98 during the current annual reporting period. | Not applicable – Selection of Remedy is in progress |

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1.0 INTRODUCTION

This 2021 Annual Groundwater Monitoring and Corrective Action Report was prepared to support compliance with the groundwater monitoring requirements of the Coal Combustion Residuals (CCR) Rule [40 Code of Federal Regulations (CFR) 257.50-107]. Specifically, this report was prepared to fulfill the requirements of 40 CFR 257.90(e). The applicable sections of the Rule are provided below in italics, followed by applicable information relative to the 2021 Annual Groundwater Monitoring and Corrective Action Report for the CCR Units. The Burlington Generating Station (BGS) site location is shown on **Figure 1**.

This report covers the period of groundwater monitoring from January 1, 2021, through December 31, 2021.

The groundwater monitoring system at the BGS impoundments is a multi-unit system. The BGS facility includes four existing CCR units:

- BGS Ash Seal Pond (existing CCR surface impoundment)
- BGS Main Ash Pond (existing CCR surface impoundment)
- BGS Economizer Ash Pond (existing CCR surface impoundment)
- BGS Upper Ash Pond (existing CCR surface impoundment)

The multi-unit system is designed to detect monitored constituents at the waste boundary of the facility as required by 40 CFR 257.91(d). The groundwater monitoring system currently consists of three upgradient monitoring wells, nine downgradient compliance wells at the waste boundary, and five additional downgradient delineation wells (**Figure 2** and **Table 1**).

2.0 BACKGROUND

To provide context for the annual report, the following background information is provided in this section of the report, prior to the annual report sections:

- Geologic and hydrogeologic setting
- CCR Rule monitoring system

2.1 GEOLOGIC AND HYDROGEOLOGIC SETTING

2.1.1 Regional Information

The uppermost geologic formation beneath the Burlington plant that meets the definition of the “uppermost aquifer,” as defined under 40 CFR 257.53, is the surficial alluvial aquifer. The alluvial aquifer is comprised of Mississippi River valley clay, silt, sand, and sand and gravel deposits. This deposit is present along the edges of the entire Mississippi River valley in southeastern Iowa. A map of the regional glacial geology in the area is included in **Appendix A**.

The alluvial aquifer is underlain by Mississippian limestone bedrock. A bedrock geology map of the area is located in **Appendix A**. The limestone bedrock is also an aquifer and is likely hydraulically connected to the alluvial aquifer above.

The regional groundwater flow direction is generally east, from the bedrock uplands west of the site toward the Mississippi River. A map of regional flow in the Mississippian aquifer is included in **Appendix A**.

2.1.2 Site Information

Monitoring wells MW-301 through MW-311 were installed in December 2015 through March 2016 as the initial monitoring system for the CCR Units. The wells were installed to intersect the surficial alluvium aquifer at the site. The unconsolidated material at these well locations is generally clay and silt to approximately 20 feet below ground surface, and these fine-grained sediments are underlain by sand or silty sand. The total boring depths were between 24 and 34 feet and bedrock was not encountered in any boring. Boring logs, well construction, and development documentation for MW-301 through MW-311 are included in **Appendix B**.

Monitoring wells MW-312 and MW-313 were installed in May 2019 as delineation wells to assess the downgradient extent of groundwater impacts. Both wells were installed near the Mississippi River. Both monitoring wells are screened near the top of the alluvial sands, below a confining clay layer. The total boring depths were 26 feet at MW-312 and 32 feet at MW-313. Boring logs, well construction, and development documentation for MW-312 and MW-313 are included in **Appendix B**.

Monitoring wells MW-302A, MW-307A, and MW-313A were installed in June and July 2020 as additional delineation wells to assess the downgradient vertical extent of groundwater impacts. They were installed as nested wells with MW-302, MW-307, and MW-313. Monitoring well MW-310A was installed in nest with upgradient well MW-310 to provide additional background groundwater information. The boring for well MW-310A encountered bedrock at 25 feet and the wells screened in Mississippian mudstone. The three downgradient delineation wells are screened in the alluvial sands. Total boring depths ranged from 50 to 62 feet. Boring logs, well construction, and development documentation for MW-302A, MW-307A, MW-310A, and MW-313A are included in **Appendix B**.

Monitoring wells MW-307B and MW-313B were installed in May 2021 as additional delineation wells to provide information on vertical groundwater flow and the vertical distribution of target groundwater quality parameters. Each new well was installed adjacent to a pre-existing well pairs (MW-307/MW-307A and MW-313/MW-313A). Total boring depths ranged from 75 to 85 feet. Boring logs, well construction, and development documentation for MW-307B and MW-313B are included in **Appendix B**.

Shallow groundwater at the site generally flows to the east and southeast, toward the Mississippi River. The shallow groundwater flow patterns in April and October 2021 are shown on **Figures 3 and 5**, respectively. The deep groundwater flow patterns in April and October 2021 are shown on **Figures 4 and 6**, respectively. Groundwater flow on all four maps is to the east. The groundwater elevation data for the CCR monitoring wells are provided in **Table 3**. Estimated horizontal gradients and flow velocities are provided in **Table 4A**. Calculated vertical gradients for the nested wells are provided in **Table 4B**.

2.2 CCR RULE MONITORING SYSTEM

The groundwater monitoring system initially established in accordance with the CCR Rule consists of two upgradient (background) monitoring wells and nine downgradient monitoring wells. The background wells include MW-310 and MW-311. The nine downgradient wells include MW 301, MW-302, MW-303, MW304, MW-305, MW-306, MW-307, MW-308, and MW-309. The CCR Rule wells are installed in the upper portion of the alluvial aquifer. Well depths range from approximately 19 to 35 feet, measured from the top of the well casing.

The shallow downgradient delineation monitoring wells include MW-312 and MW-313. The deeper downgradient piezometers include MW-302A, MW-307A, MW-307B, MW-313A, and MW-313B. Upgradient piezometer MW-310A was also installed to assist with the selection of remedy process. Shallow monitoring well depths range from approximately 19 to 33 feet, measured from the top of the well casing. The piezometer depths range from approximately 49 to 80 feet, measured from top of well casing.

Although piezometer MW-310A is located upgradient of the CCR units, this well has not been used in the statistical evaluation of background conditions because it is not installed in the same hydrostratigraphic unit as the downgradient wells. MW-310A is installed in a low permeability mudstone and the other monitoring wells are installed in the overlying alluvial aquifer.

3.0 §257.90(E) ANNUAL REPORT REQUIREMENTS

Annual groundwater monitoring and corrective action report. For existing CCR landfills and existing CCR surface impoundments, no later than January 31, 2018, and annually thereafter, the owner or operator must prepare an annual groundwater monitoring and corrective action report. For new CCR landfills, new CCR surface impoundments, and all lateral expansions of CCR units, the owner or operator must prepare the initial annual groundwater monitoring and corrective action report no later than January 31 of the year following the calendar year a groundwater monitoring system has been established for such CCR unit as required by this subpart, and annually thereafter. For the preceding calendar year, the annual report must document the status of the groundwater monitoring and corrective action program for the CCR unit, summarize key actions completed, describe any problems encountered, discuss actions to resolve the problems, and project key activities for the upcoming year. For purposes of this section, the owner or operator has prepared the annual report when the report is placed in the facility's operating record as required by §257.105(h)(1). At a minimum, the annual groundwater monitoring and corrective action report must contain the following information, to the extent available:

3.1 §257.90(e)(1) Site Map

A map, aerial image, or diagram showing the CCR unit and all background (or upgradient) and downgradient monitoring wells, to include the well identification numbers, that are part of the groundwater monitoring program for the CCR unit;

A map of the site location is provided on **Figure 1**. A map with an aerial image showing the CCR units and all background (or upgradient) and downgradient monitoring wells with identification numbers for the groundwater monitoring program is provided as **Figure 2**.

3.2 §257.90(E)(2) MONITORING SYSTEM CHANGES

Identification of any monitoring wells that were installed or decommissioned during the preceding year, along with a narrative description of why those actions were taken;

Two monitoring wells, MW-307B and MW-313B were installed in May 2021 to provide information on vertical groundwater flow and the vertical distribution of target groundwater quality parameters in accordance with §257.95(g)(1). Each of the new wells was installed adjacent to a pair of pre-existing wells (MW-307/MW-307A and MW-313/MW-313A). The boring logs and well construction forms are provided in **Appendix B**.

3.3 §257.90(E)(3) SUMMARY OF SAMPLING EVENTS

In addition to all the monitoring data obtained under §§257.90 through 257.98, a summary including the number of groundwater samples that were collected for analysis for each background and downgradient well, the dates the samples were collected, and whether the sample was required by the detection monitoring or assessment monitoring programs;

Four groundwater sampling events were completed in 2021. The two semiannual sampling events were completed in April 2021 and October 2021 as required by the assessment monitoring program. Supplemental samples from wells installed in 2020 were collected in March 2021 to support the selection of remedy process, including characterization of aquifer conditions and evaluation of monitored natural attenuation (MNA). Initial samples for the two newly installed monitoring wells were collected in July 2021. The new monitoring wells were also sampled in October 2021, as part of the second semiannual sampling event. A summary including the number of groundwater samples that were collected for analysis for each background and downgradient well, the dates the samples were collected, and whether the sample was required by the detection or assessment monitoring programs is included in **Table 2**.

Groundwater samples collected in the April, July, and October 2021 sampling events were analyzed for both Appendix III and Appendix IV constituents, and the results are summarized in **Tables 5A** and **5B**. Field parameter results for the 2021 sampling events are provided in **Table 6**. The analytical laboratory reports for 2021 are provided in **Appendix C**. Historical results for each monitoring well are summarized in **Appendix D**.

Supplemental groundwater quality parameters were included in the monitoring program in March, April and October 2021 to support the selection of remedy process. The results for the supplemental parameters are also included in **Tables 5A** and **5B**, in the laboratory reports in **Appendix C**, and in the historical results tables in **Appendix D**.

3.4 §257.90(E)(4) MONITORING TRANSITION NARRATIVE

A narrative discussion of any transition between monitoring programs (e.g., the date and circumstances for transitioning from detection monitoring to assessment monitoring in addition to identifying the constituent(s) detected at a statistically significant increase over background levels);

There was no monitoring program transition in 2021.

An Assessment of Corrective Measures (ACM) was initiated for the BGS CCR Units on April 15, 2019. The ACM was completed on September 12, 2019, and an addendum to the ACM was completed on November 25, 2020. The selection of remedy is in progress. The ACM was initiated in response to

the detection of lithium and molybdenum at a statistically significant level exceeding the Groundwater Protection Standards (GPS). Assessment monitoring continued during the ACM and will continue during the selection of remedy and implementation of the corrective action program.

In accordance with the Unified Guidance for Statistical Analysis of Groundwater Monitoring Data at Resource Conservation and Recovery Act (RCRA) Facilities (U.S. Environmental Protection Agency [U.S. EPA], 2009), the comparison of assessment monitoring results to the GPS was based on the lower confidence limit (LCL) for the arithmetic mean. The LCL evaluation was completed for the Appendix IV parameters that have been detected at a concentration exceeding the GPS in at least one sample result since assessment monitoring was initiated, which include lithium and molybdenum. The LCLs were calculated with Sanitas™ using historical concentrations measured since assessment monitoring began in August 2018. The most recent LCL evaluation, completed for the October 2021 event, is provided in **Appendix E**.

Based on the LCL evaluation, statistically significant levels (SSLs) above the GPS were identified for the following parameters and wells in April and/or October 2021:

- Lithium: MW-302, MW-303, MW-304, MW-307, MW-308
- Molybdenum: MW-302, MW-307, MW-307A, MW-308, MW-312

The SSLs for lithium at MW-302, MW-303, MW-307, and MW-308 and for molybdenum at MW-302, MW-307, MW-308, and MW-312 are consistent with previous SSL determinations. The SSL for molybdenum at MW-307A is a newly identified SSL, because this well was installed more recently and has now been sampled four times, which is the minimum required for LCL evaluation.

Molybdenum was detected at concentrations exceeding the GPS in samples from the new piezometer MW-313B during the July and October 2021 sampling events (**Table 5B**). Once four rounds of sampling have been completed at these locations, evaluation of the LCL for the mean concentration will be used to determine if molybdenum is at an SSL above the GPS at this well.

Additional monitoring wells had lithium and/or molybdenum results exceeding the GPS in 2021, but were not determined to be at an SSL above the GPS based on the LCL evaluation.

The comparison to background was based on a prediction limit approach, comparing the results to interwell upper prediction limits (UPLs) based on background monitoring results from the upgradient wells (MW-310 and MW-311). For arsenic, background levels exceed the drinking water Maximum Contaminant Level (MCL); therefore, the UPL value also serves as the GPS for this parameter. The interwell UPLs were most recently updated in August 2021 using background data collected through April 2021. The Unified Guidance for Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities (U.S. EPA, 2009; Section 5.3.1) recommends periodic updating of background for both intrawell and interwell analyses. For semiannual monitoring, an update interval of 2 to 3 years is recommended. The UPL calculations for Appendix III and Appendix IV parameters are included in **Appendix E**. The UPLs calculated in August 2021 were applied to the evaluation of the April, July, and October 2021 monitoring results.

3.5 §257.90(E)(5) OTHER REQUIREMENTS

Other information required to be included in the annual report as specified in §§257.90 through 257.98.

Additional potentially applicable requirements for the annual report, and the location of the requirement within the Rule, are provided in the following sections. For each cited section of the Rule, the portion referencing the annual report requirement is provided below in italics, followed by applicable information relative to the 2021 Annual Groundwater Monitoring and Corrective Action Report.

3.5.1 §257.90(e) General Requirements

For the preceding calendar year, the annual report must document the status of the groundwater monitoring and corrective action program for the CCR unit, summarize key actions completed, describe any problems encountered, discuss actions to resolve the problems, and project key activities for the upcoming year.

Status of Groundwater Monitoring and Corrective Action Program. The groundwater monitoring and corrective action program is currently in the selection of remedy process, with assessment monitoring continuing.

Summary of Key Actions Completed:

- Statistical evaluation of the October 2020 assessment monitoring event completed on January 15, 2021.
- Completed groundwater monitoring results letter for October 2020 sampling event (January 2021).
- Completed 2020 Annual Groundwater Monitoring and Corrective Action Report (January 2021).
- Conducted surface water sampling at two locations on the Mississippi River in March 2021. One sample was obtained upriver from the plant and the other was obtained from a downriver location.
- Alliant Energy provided a notification to the Iowa Department of Natural Resources in accordance with 40 CFR 257.95(g)(2) (April 2021).
- Completed permitting for new piezometers MW-307B and MW-313B. (May 2021).
- Installed new piezometers MW-307B and MW-313B. Drilled boring B-302B (May 2021)
- Groundwater treatability study initiated with literature-vendor review of reagents (May 2021).
- Completed groundwater monitoring results letter for March 2021 sampling event (June 2021).
- Evaluated existing, stored soil and CCR material samples for potential use in the groundwater treatability study (June-July 2021).
- Statistical evaluation of the April 2021 assessment monitoring event completed on July 15, 2021.

- Two semiannual assessment monitoring events (April and October 2021).
- Two supplemental sampling events (March and July 2021) to characterize groundwater quality at selected wells installed to delineate the nature and extent of impacts.
- Semiannual progress reports for the Selection of Remedy process (March and September 2021).
- Completed groundwater monitoring results letter for April 2021 sampling event (August 2021).
- Completed Well documentation report for the new piezometers MW-307B and MW-313B (August 2021).
- Collected Main Ash Pond ash samples for the treatability study (September 2021).
- Collected Economizer Pond ash samples and additional Main Ash pond Samples for the treatability study (October 2021).

Description of Any Problems Encountered:

- During the March sampling event the flush-mount cover at MW-310 was shifted and could not be fixed in March due to frozen ground.

Discussion of Actions to Resolve the Problems:

- MW-310 was sampled during the semiannual monitoring event in April 2021 after spring thaw. The flush-mount was repaired during the sampling event.

Projection of Key Activities for the Upcoming Year (2021):

- Statistical evaluation and determination of any SSLs exceeding the GPS for the October 2021 monitoring event (January 2022).
- Statistical evaluation and determination of any SSLs exceeding the GPS for the April 2021 monitoring event (July 2022).
- Conduct Phase II of the Treatability Study:
 - Perform treatability testing of site groundwater for further evaluation of remediation alternatives.
- Update conceptual site model based on findings of nature and extent investigation. Continued work on the selection of remedy in accordance with §257.97.
- An additional public meeting will be held in 2022 prior to remedy selection.
- Two semiannual assessment monitoring events (April and October 2022).

3.5.2 §257.94(d) Alternative Detection Monitoring Frequency

The owner or operator must include the demonstration providing the basis for the alternative monitoring frequency and the certification by a qualified professional engineer in the annual groundwater monitoring and corrective action report required by § 257.90(e).

Not applicable. BGS is no longer in the detection monitoring program.

3.5.3 §257.94(e)(2) Alternative Source Demonstration for Detection Monitoring

The owner or operator must also include the demonstration in the annual groundwater monitoring and corrective action report required by §257.90(e), in addition to the certification by a qualified professional engineer.

Not applicable. BGS is no longer in the detection monitoring program.

3.5.4 §257.95(c) Alternative Assessment Monitoring Frequency

The owner or operator must include the demonstration providing the basis for the alternative monitoring frequency and the certification by a qualified professional engineer in the annual groundwater monitoring and corrective action report required by §257.90(e).

Not applicable. Assessment monitoring has been initiated at the site but no alternative assessment monitoring frequency has been proposed at this time.

3.5.5 §257.95(d)(3) Assessment Monitoring Results and Standards

Include the recorded concentrations required by paragraph (d)(1) of this section, identify the background concentrations established under § 257.94(b), and identify the groundwater protection standards established under paragraph (d)(2) of this section in the annual groundwater monitoring and corrective action report required by §257.90(e).

The 2021 assessment monitoring results, background UPLs, and GPSs established for BGS are provided in **Tables 5A** and **5B**. The laboratory reports are provided in **Appendix C**. Historical monitoring results are summarized in **Appendix D**.

Supplemental groundwater quality parameters were included in the monitoring program in 2021 to support the selection of remedy process, including the evaluation of MNA. The results for the supplemental parameters are included in **Table 5** and in the laboratory reports in **Appendix C**.

3.5.6 §257.95(g)(3)(ii) Alternative Source Demonstration for Assessment Monitoring

The owner or operator must also include the demonstration in the annual groundwater monitoring and corrective action report required by §257.90(e), in addition to the certification by a qualified professional engineer.

Not applicable. No alternative source demonstration evaluation for assessment monitoring was completed in 2021.

3.5.7 §257.96(a) Extension of Time for Corrective Measures Assessment

The assessment of corrective measures must be completed within 90 days, unless the owner or operator demonstrates the need for additional time to complete the assessment of corrective measure due to site-specific conditions or circumstances. The owner or operator must obtain a certification from a qualified professional engineer attesting that the demonstration is accurate. The 90-day deadline to complete the assessment of corrective measures may be extended for longer than 60 days. The owner or operator must also include the demonstration in the annual groundwater monitoring and corrective action report required by §257.90(e), in addition to the certification by a qualified professional engineer.

The ACM was initiated on April 15, 2019. The certification demonstrating the need for a 90-day deadline extension was completed on July 10, 2019, and was included in the 2019 annual groundwater monitoring and corrective action report. The ACM was completed on September 12, 2019. Addendum No. 1 to the ACM was completed on November 25, 2020.

3.6 §257.90(E)(6) OVERVIEW

A section at the beginning of the annual report that provides an overview of the current status of groundwater monitoring and corrective action programs for the CCR unit.

The specific requirements for the overview under §257.90(e)(6) are listed and the information is provided at the beginning of this report, before the Table of Contents.

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**Table 1. Groundwater Monitoring Well Network
Burlington Generating Station / SCS Engineers Project #25221066.00**

| Monitoring Well | Location in Monitoring Network | Role in Monitoring Network |
|------------------------|---------------------------------------|-----------------------------------|
| MW-301 | Downgradient | Compliance |
| MW-302 | Downgradient | Compliance |
| MW-302A | Downgradient, deeper | Delineation |
| MW-303 | Downgradient | Compliance |
| MW-304 | Downgradient | Compliance |
| MW-305 | Downgradient | Compliance |
| MW-306 | Downgradient | Compliance |
| MW-307 | Downgradient | Compliance |
| MW-307A | Downgradient, deeper | Delineation |
| MW-307B | Downgradient, deeper | Delineation |
| MW-308 | Downgradient | Compliance |
| MW-309 | Downgradient | Compliance |
| MW-310 | Upgradient | Background |
| MW-310A | Upgradient, deeper | Background |
| MW-311 | Upgradient | Background |
| MW-312 | Downgradient | Delineation |
| MW-313 | Downgradient | Delineation |
| MW-313A | Downgradient, deeper | Delineation |
| MW-313B | Downgradient, deeper | Delineation |

Created by: RM
 Last revision by: RM
 Checked by: JAO

Date: 12/14/2020
 Date: 12/20/2021
 Date: 12/22/2021

**Table 2. CCR Rule Groundwater Samples Summary
Burlington Generating Station
SCS Engineers Project #25221066.00**

| Sample Dates | Compliance wells | | Delineation Well | Compliance wells | | | | | Delineation Wells | | Compliance wells | | Background Wells | | | Delineation Wells | | | |
|---------------|------------------|--------|------------------|------------------|--------|--------|--------|--------|-------------------|---------|------------------|--------|------------------|---------|--------|-------------------|--------|---------|---------|
| | MW-301 | MW-302 | MW-302A | MW-303 | MW-304 | MW-305 | MW-306 | MW-307 | MW-307A | MW-307B | MW-308 | MW-309 | MW-310 | MW-310A | MW-311 | MW-312 | MW-313 | MW-313A | MW-313B |
| 3/1-3/2021 | A-S | A-S | A-S | A-S | A-S | A-S | A-S | A-S | A-S | NI | A-S | A-S | -- | A-S | A-S | A-S | A-S | A-S | NI |
| 4/19-20/2021 | A | A | A | A | A | A | A | A | A | NI | A | A | A | A | A | A | A | A | NI |
| 7/1/2021 | -- | -- | -- | -- | -- | -- | -- | -- | -- | A | -- | -- | -- | -- | -- | -- | -- | -- | A |
| 10/11-14/2021 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A |
| Total Samples | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 |

Abbreviations:

A = Assessment Monitoring Program

A-S = Supplemental Sampling Event for Assessment Monitoring Program

-- = Not Sampled

NI = Not Installed

Created by: TK Date: 12/29/2017

Last revision by: RM Date: 12/20/2021

Checked by: JAO Date: 12/23/2021

**Table 3. Groundwater Elevation Summary
Burlington Generating Station / SCS Engineers Project #25221066.00**

| Well Number | MW-301 | MW-302 | MW-302A | MW-303 | MW-304 | MW-305 | MW-306 | MW-307 | MW-307A | MW-307B | MW-308 | MW-309 | MW-310 | MW-310A | MW-311 | MW-312 | MW-313 | MW-313A | MW-313B |
|--------------------------------------------|--------|--------|---------|--------|--------|--------|--------|--------|---------|---------|--------|--------|--------|---------|--------|--------|--------|---------|---------|
| Top of Casing Elevation (feet amsl) | 538.38 | 535.69 | 535.89 | 533.60 | 534.42 | 533.28 | 536.92 | 536.96 | 536.22 | 536.65 | 537.20 | 536.42 | 531.99 | 532.53 | 532.32 | 536.43 | 535.82 | 536.03 | 536.14 |
| Screen Length (ft) | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Total Depth (ft from top of casing) | 31.90 | 29.95 | 62.55 | 28.59 | 25.27 | 29.43 | 34.41 | 28.64 | 61.93 | 80.00 | 30.31 | 27.31 | 18.76 | 48.8 | 22.63 | 27.70 | 32.97 | 63.38 | 72.0 |
| Top of Well Screen Elevation (ft) | 511.48 | 510.74 | 478.34 | 510.01 | 514.15 | 508.85 | 507.51 | 513.32 | 479.29 | 461.65 | 511.89 | 514.11 | 518.23 | 488.73 | 514.69 | 513.80 | 507.85 | 477.65 | 469.14 |
| Measurement Date | | | | | | | | | | | | | | | | | | | |
| April 20, 2016 | 522.63 | 521.91 | NI | 521.76 | 521.78 | 521.96 | 521.74 | 522.38 | NI | NI | 521.93 | 522.09 | 525.43 | NI | 523.72 | NM | NM | NI | NI |
| June 6 & 7, 2016 | 521.07 | 521.21 | NI | 521.26 | 521.28 | 521.48 | 521.43 | 521.75 | NI | NI | 521.43 | 521.39 | 524.13 | NI | 521.80 | NM | NM | NI | NI |
| August 16 & 17, 2016 | 521.81 | 521.35 | NI | 521.31 | 521.37 | 521.46 | 521.53 | 521.91 | NI | NI | 521.56 | 521.70 | 524.84 | NI | 522.92 | NM | NM | NI | NI |
| October 3, 2016 | 527.48 | 527.54 | NI | 527.57 | 527.57 | 527.71 | 527.67 | 527.81 | NI | NI | 527.62 | 527.57 | 527.58 | NI | 527.34 | NM | NM | NI | NI |
| January 9 & 10, 2017 | 525.38 | 525.50 | NI | 525.56 | 525.62 | 525.74 | 525.67 | 525.81 | NI | NI | 525.65 | 525.57 | 525.78 | NI | 525.16 | NM | NM | NI | NI |
| April 3 & 4, 2017 | 523.08 | 522.84 | NI | 522.81 | 522.87 | 523.03 | 523.07 | 523.14 | NI | NI | 523.07 | 523.10 | 525.52 | NI | 524.01 | NM | NM | NI | NI |
| June 12 & 13, 2017 | 523.21 | 522.84 | NI | 522.80 | 522.90 | 522.78 | 522.87 | 523.17 | NI | NI | 522.90 | 522.91 | 524.94 | NI | 523.55 | NM | NM | NI | NI |
| August 15 & 16, 2017 | 519.96 | 519.39 | NI | 519.30 | 519.23 | 519.93 | 519.82 | 520.16 | NI | NI | 519.80 | 519.93 | 523.89 | NI | 521.12 | NM | NM | NI | NI |
| October 16, 2017 | 522.13 | 522.20 | NI | 522.23 | 522.32 | 522.48 | 522.72 | 522.55 | NI | NI | 522.46 | 522.67 | 525.49 | NI | 523.44 | NM | NM | NI | NI |
| May 8 & 9, 2018 | 525.51 | 525.81 | NI | 525.80 | 525.85 | 526.06 | 526.00 | 526.06 | NI | NI | 525.62 | 525.54 | 525.79 | NI | 525.08 | NM | NM | NI | NI |
| August 13 & 14, 2018 | 520.19 | 519.87 | NI | 519.78 | 519.81 | 520.29 | 520.14 | 520.46 | NI | NI | 520.22 | 520.22 | 523.69 | NI | 521.06 | NM | NM | NI | NI |
| October 9 & 10, 2018 | 528.01 | 528.08 | NI | 528.78 | 528.82 | 528.97 | 528.95 | 529.08 | NI | NI | 528.98 | 528.93 | 529.00 | NI | 528.49 | NM | NM | NI | NI |
| March 11, 2019 | 523.38 | 522.83 | NI | 522.74 | 522.80 | NM | 523.21 | 523.49 | NI | NI | 523.13 | NM | NM | NI | NM | NM | NM | NI | NI |
| April 3, 2019 | 528.15 | 528.21 | NI | 528.22 | 528.27 | 528.36 | 528.40 | 528.63 | NI | NI | 528.39 | 528.40 | 528.62 | NI | 528.20 | NM | NM | NI | NI |
| June 6, 2019 | 530.70 | 531.02 | NI | 531.00 | 531.04 | TOC | 531.19 | 531.38 | NI | NI | 531.15 | 531.08 | 531.48 | NI | 531.07 | 531.08 | 531.05 | NI | NI |
| October 10 & 11, 2019 | 526.80 | 526.88 | NI | 526.87 | 526.97 | 527.03 | 527.22 | 527.45 | NI | NI | 527.08 | 527.02 | 526.25 | NI | 526.68 | 526.97 | 526.97 | NI | NI |
| June 2-4, 2020 | 523.94 | 523.98 | NI | 523.97 | 524.02 | 524.12 | 524.45 | 524.62 | NI | NI | 524.10 | 524.06 | 525.36 | NI | 524.05 | 524.05 | 524.02 | NI | NI |
| September 9, 2020 | 519.90 | 519.79 | 519.71 | 519.73 | 519.83 | 520.00 | 520.14 | 520.41 | 519.97 | NI | 520.11 | 520.13 | 524.13 | 509.16 | 520.87 | 519.85 | 519.83 | 519.76 | NI |
| October 14-16 & 19, 2020 | 519.26 | 518.94 | 518.79 | 518.78 | 518.69 | 519.00 | 519.05 | 519.33 | 519.00 | NI | 519.02 | 519.28 | 523.81 | 489.84 | 520.59 | 518.68 | 518.70 | 518.61 | NI |
| March 1-3, 2021 | 521.10 | 520.21 | 520.14 | 520.09 | 520.15 | 520.48 | 520.65 | 521.01 | 520.52 | NI | 520.70 | 520.75 | NM | 487.06 | 522.89 | 520.12 | 520.18 | 520.02 | NI |
| April 19 - 20, 2021 | 522.87 | 522.27 | 522.25 | 522.13 | 522.24 | 522.31 | 522.52 | 522.89 | 522.39 | NI | 522.57 | 522.72 | 525.46 | 521.12 | 523.89 | 522.20 | 522.23 | 522.11 | NI |
| July 1, 2021 | NM | NM | NM | NM | NM | NM | NM | NM | NM | 520.12 | NM | NM | NM | NM | NM | NM | NM | NM | 519.51 |
| September 21-22, 2021 | NM | NM | NM | NM | 518.29 | NM | NM | NM | NM | NM | NM | NM | 524.42 | NM | NM | NM | NM | NM | NM |
| October 11-14, 2021 | 519.40 | 518.75 | 518.64 | 518.58 | 518.68 | 519.18 | 519.15 | 519.55 | 519.09 | 519.13 | 519.25 | 519.43 | 524.69 | 521.83 | 522.00 | 518.78 | 518.72 | 518.62 | 518.72 |
| Bottom of Well Elevation (ft) | 506.48 | 505.74 | 473.34 | 505.01 | 509.15 | 503.85 | 502.51 | 508.32 | 474.29 | 456.65 | 506.89 | 509.11 | 513.23 | 483.73 | 509.69 | 508.73 | 502.85 | 472.65 | 464.14 |

Notes:
 NM = not measured
 TOC = top of casing
 NI = not installed

Created by: MDB
 Last revision by: RM
 Checked by: JAO

Date: 6/15/2016
 Date: 12/20/2021
 Date: 12/23/2021

I:\25221066.00\Deliverables\2021 BGS Fed CCR Annual Report\Tables\[Table 3 - Groundwater Elevation Summary.xls]levels

**Table 4A. Horizontal Gradients and Flow Velocity Table
Burlington Generating Station
SCS Engineers Project #25221066.00
2021**

| Shallow Potentiometric Surface | | | | | | |
|--------------------------------|---------|---------|---------|---------------|----------|----------------|
| Sampling Dates | h1 (ft) | h2 (ft) | Δl (ft) | Δh/Δl (ft/ft) | V (ft/d) | Direction |
| April 19-20, 2021 | 524.00 | 522.20 | 1597 | 0.0011 | 0.28 | East |
| October 11-14, 2021 | 522.00 | 518.72 | 1630 | 0.0020 | 0.50 | East-Southeast |

| Deeper Potentiometric Surface | | | | | | |
|-------------------------------|---------|---------|---------|---------------|----------|-----------|
| Sampling Dates | h1 (ft) | h2 (ft) | Δl (ft) | Δh/Δl (ft/ft) | V (ft/d) | Direction |
| April 19-20, 2021 | 522.39 | 521.12 | 1526 | 0.0008 | 0.21 | West |
| October 11-14, 2021 | 521.83 | 518.62 | 2154 | 0.0015 | 0.37 | East |

| Well | K Values (cm/sec) | K Values (ft/d) | Assumed Porosity, n |
|----------------|-------------------|-----------------|---------------------|
| MW-301 | 1.6E-03 | 4.4 | |
| MW-302 | 2.9E-02 | 82 | |
| MW-302A | 4.9E-02 | 140 | |
| MW-303 | 8.3E-03 | 24 | |
| MW-304 | 6.0E-02 | 171 | |
| MW-305 | 6.1E-02 | 173 | |
| MW-306 | 1.0E-01 | 295 | |
| MW-307 | 8.5E-03 | 24 | |
| MW-307A | 4.1E-02 | 116 | |
| MW-307B | 6.2E-02 | 175 | |
| MW-308 | 7.6E-02 | 215 | |
| MW-309 | 1.2E-02 | 34 | |
| MW-310 | 3.7E-02 | 104 | |
| MW-310A | 1.49E-07 | 0 | |
| MW-311 | 9.1E-03 | 26 | |
| MW-312 | 6.6E-02 | 187 | |
| MW-313 | 1.1E-01 | 298 | |
| MW-313A | 1.2E-01 | 334 | |
| MW-313B | 4.8E-02 | 135 | |
| Geometric Mean | 3.5E-02 | 100 | |

ft = feet
 ft/d = feet per day
 K = hydraulic conductivity
 n = effective porosity

h1, h2 = point interpreted groundwater elevation at locations 1 and 2
 Δl = distance between location 1 and 2
 Δh/Δl = hydraulic gradient
 V = groundwater flow velocity

1. MW-310, MW-310A, and MW-311 are background wells and are not included in geometric mean calculation

Groundwater flow velocity equation: $V = [K*(\Delta h/\Delta l)] / n$

| | | | |
|-------------------|-----|-------|------------|
| Created by: | RM | Date: | 12/29/2020 |
| Last revision by: | MDB | Date: | 1/10/2022 |
| Checked by: | RM | Date: | 1/11/2022 |

Table 4B. Vertical Gradients
Burlington Generating Station / SCS Engineers Project #25221066.00
January - December 2021

| Vertical Hydraulic Gradients | MW302/MW302A | | MW307/MW307A | | MW-307A/MW-307B | | MW310/MW310A | | MW313/MW313A | | MW313A/MW313B | |
|------------------------------|---------------------------------------------|------------------------------------------|--------------------------------------------|---------------------------------|--------------------------------------------|---------------------------------|--------------------------------------------|---------------------------------|--------------------------------------------|---------------------------------|--------------------------------------------|---------------------------------|
| | Shallow Well Screen midpoint (feet amsl) | Deep Well Screen midpoint (feet amsl) | Distance between midpoints (feet) | Vertical Gradient (ft/ft) | Distance between midpoints (feet) | Vertical Gradient (ft/ft) | Distance between midpoints (feet) | Vertical Gradient (ft/ft) | Distance between midpoints (feet) | Vertical Gradient (ft/ft) | Distance between midpoints (feet) | Vertical Gradient (ft/ft) |
| | MW302 508.24 | MW307 510.82 | | | MW-307A 476.79 | | | MW310 515.73 | MW313 505.35 | MW313A 475.15 | | |
| | MW302A 475.84 | MW307A 476.79 | | | MW-307B 459.15 | | | MW310A 486.23 | MW313A 475.15 | MW313B 466.64 | | |
| Measurement Date | | | | | | | | | | | | |
| March 1-3, 2021 | 32.4 | -0.002 | 34.0 | -0.014 | 17.6 | NI | NM | NM | 30.2 | -0.005 | 8.5 | NI |
| April 19 - 20, 2021 | 32.4 | -0.001 | 34.0 | -0.015 | 17.6 | NI | 29.5 | -0.147 | 30.2 | -0.004 | 8.5 | NI |
| October 11-14, 2021 | 32.4 | -0.003 | 34.0 | -0.014 | 17.6 | 0.002 | 29.5 | -0.097 | 30.2 | -0.003 | 8.5 | 0.012 |

Notes:
1: A positive vertical gradient indicates upward groundwater flow. A negative gradient indicates downward flow.
NM: Not Measured
NI: Deeper piezometer not yet installed

| | | | |
|-------------------|------------|-------|-------------------|
| Created by: | <u>RM</u> | Date: | <u>12/20/2021</u> |
| Last revision by: | <u>RM</u> | Date: | <u>12/20/2021</u> |
| Checked by: | <u>JAO</u> | Date: | <u>12/23/2021</u> |
| Checked by PM: | <u>TK</u> | Date: | <u>1/19/2022</u> |

**Table 5A. Groundwater Analytical Results Summary - Assessment Monitoring
January - March 2021
Burlington Generating Station, Burlington, IA / SCS Engineers Project #25221066.00**

| Parameter Name | UPL Method | UPL | GPS | Background Wells | | Compliance Wells | | Delineation Well | Compliance wells | | | | | Delineation Well | Compliance Wells | | | | Delineation Well | | |
|----------------------------------------------------------------|------------|-------|-------|------------------|----------|------------------|----------|------------------|------------------|----------|----------|----------|----------|------------------|------------------|----------|----------|----------|------------------|-------|-----|
| | | | | MW-310A | MW-311 | MW-301 | MW-302 | MW-302A | MW-303 | MW-304 | MW-305 | MW-306 | MW-307 | MW-307A | MW-308 | MW-309 | MW-312 | MW-313 | MW-313A | | |
| | | | | 3/3/2021 | 3/1/2021 | 3/1/2021 | 3/1/2021 | 3/1/2021 | 3/1/2021 | 3/1/2021 | 3/2/2021 | 3/2/2021 | 3/2/2021 | 3/2/2021 | 3/2/2021 | 3/1/2021 | 3/1/2021 | 3/2/2021 | 3/1/2021 | | |
| Appendix III | | | | | | | | | | | | | | | | | | | | | |
| Boron, ug/L | NP | 2,950 | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| Calcium, mg/L | P | 210 | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| Chloride, mg/L | P | 209 | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| Fluoride, mg/L | P | 0.427 | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| Field pH, Std. Units | P | 8.17 | | 7.22 | 6.99 | 6.88 | 7.95 | 7.2 | 7.15 | 8.26 | 7.29 | 9.46 | 9.96 | 7.66 | 9.40 | 7.22 | 7.07 | 6.98 | 7.48 | | |
| Sulfate, mg/L | P | 457 | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| Total Dissolved Solids, mg/L | P | 1,113 | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| Appendix IV | | | | | | | | | | | | | | | | | | | | | |
| | | UPL | GPS | | | | | | | | | | | | | | | | | | |
| Antimony, ug/L | P* | 0.17 | 6 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| Arsenic, ug/L** | P | 114.9 | 114.9 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| Barium, ug/L | P | 1,147 | 2,000 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| Beryllium, ug/L | NP* | 0.036 | 4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| Cadmium, ug/L | NP* | 0.025 | 5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| Chromium, ug/L | P* | 0.090 | 100 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| Cobalt, ug/L | P | 3.87 | 6 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| Fluoride, mg/L | P | 0.427 | 4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| Lead, ug/L | NP* | 0.64 | 15 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| Lithium, ug/L | NP* | 7.7 | 40 | -- | -- | -- | -- | 11 | -- | -- | -- | -- | 9.1 | J | -- | -- | -- | 15 | | | |
| Mercury, ug/L | DQ | DQ | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | |
| Molybdenum, ug/L | NP | 14.7 | 100 | -- | -- | -- | -- | 87 | -- | -- | -- | -- | 120 | | -- | -- | -- | 110 | | | |
| Selenium, ug/L | P* | 0.28 | 50 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | |
| Thallium, ug/L | NP* | 0.35 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | |
| Radium 226/228 Combined, pCi/L | P | 3.36 | 5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | |
| Additional Parameters Monitored for Selection of Remedy | | | | | | | | | | | | | | | | | | | | | |
| Lithium, dissolved,* ug/L | | | | -- | -- | -- | 66.0 | 12.0 | 66.0 | 86.0 | -- | 29.0 | 52.0 | 9.60 | J | 54.0 | -- | -- | 36.0 | 15.0 | |
| Iron, dissolved,* ug/L | | | | 2100 | 21,000 | 41,000 | 2,000 | 8,600 | 7,600 | 1100 | 1,800 | <36 | <36 | 450 | <36 | 9,300 | 9,800 | 18,000 | 1,400 | | |
| Iron, ug/L | | | | 1,900 | 21,000 | 40,000 | 2,400 | 8,300 | 7,600 | 1200 | 1,900 | 54 | J | <36 | 510 | <36 | 11,000 | 10,000 | 19,000 | 1,400 | |
| Magnesium, dissolved,* ug/L | | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| Magnesium, ug/L | | | | 25,000 | 39,000 | 68,000 | 15,000 | 32,000 | 20,000 | 5,200 | 21,000 | <100 | <100 | 1,500 | 1,600 | 18,000 | 12,000 | 28,000 | 3,400 | | |
| Manganese, dissolved,* ug/L | | | | 300 | 5,400 | 13,000 | 1,300 | 3,500 | 3,400 | 760 | 1,900 | 5.4 | J | 5.30 | J | 360 | 210 | 2,500 | 7,500 | 7,300 | 530 |
| Manganese, ug/L | | | | 330 | 5,700 | 13,000 | 1,300 | 3,300 | 3,400 | 750 | 1,900 | 6.5 | J | 5.40 | J | 360 | 210 | 2,500 | 7,900 | 8,100 | 530 |
| Molybdenum, dissolved,* ug/L | | | | -- | -- | 41.0 | 130 | 90 | 120.0 | 140 | -- | -- | 130 | 120 | 110 | 56 | 300 | 150 | 100 | | |
| Potassium, ug/L | | | | 6,600 | 2,200 | 4,000 | 13,000 | 3,600 | 22,000 | 15,000 | 6,300 | 19,000 | 38,000 | 3,200 | 38,000 | 2,600 | 13,000 | 9,500 | 11,000 | | |
| Sodium, ug/L | | | | 170,000 | 65,000 | 50,000 | 27,000 | 32,000 | 33,000 | 46,000 | 47,000 | 50,000 | 52,000 | 110,000 | 85,000 | 97,000 | 74,000 | 82,000 | 150,000 | | |
| Bicarbonate Alkalinity, mg/L | | | | 400 | 400 | 800 | 190 | 180 | 210 | 130 | 410 | 68 | 35.0 | 94 | 69.0 | 250 | 190 | 310 | 94.0 | | |
| Carbonate Alkalinity, mg/L | | | | <2.3 | <2.3 | <4.6 | <4.2 | <4.2 | <4.6 | <2.6 | <4.6 | 46 | 49.0 | <2.3 | 39.0 | <2.3 | <4.6 | <2.3 | <2.3 | | |
| Total Alkalinity, mg/L | | | | 400 | 400 | 800 | 190 | 180 | 210 | 130 | 410 | 110 | 84.0 | 94 | 110 | 250 | 190 | 310 | 94.0 | | |

4.4 Blue highlighted cell indicates the compliance/delineation well result exceeds the UPL (background) and the LOQ.
30.8 Yellow highlighted cell indicates the compliance/delineation well result exceeds the GPS.

See page 2 for Notes and Abbreviations

**Table 5A. Groundwater Analytical Results Summary - Assessment Monitoring
January - March 2021
Burlington Generating Station, Burlington, IA / SCS Engineers Project #25221066.00**

Abbreviations:

UPL = Upper Prediction Limit
 -- = Not Analyzed
 mg/L = milligrams per liter

GPS = Groundwater Protection Standard
 DQ = Double Quantification Rule (not detected in background)
 NP = Nonparametric UPL (highest background value) with 1-of-2 retesting

LOD = Limit of Detection
 LOQ = Limit of Quantification
 P = Parametric UPL with 1-of-2 retesting

J = Estimated concentration at or above the LOD and below the LOQ.

* = UPL is below the LOQ for background sampling. For compliance wells, only results confirmed above the LOQ are evaluated as potential SSIs above background.

** = UPL for arsenic is greater than the MCL and will be used as the GPS.

= Dissolved parameter samples collected for MNA data review

Notes:

1. An individual result above the UPL or GPS does not constitute a statistically significant increase (SSI) above background or statistically significant level above the GPS. See the accompanying letter text for identification of statistically significant results.
2. GPS is the United States Environmental Protection Agency (US EPA) Maximum Contamination Level (MCL), if established, or the value from 40 CFR 257.95(h)(2), or the background UPL if it is higher.
3. Interwell UPLs calculated based on results from background wells MW-310 and MW-311.

| | |
|---------------------------------|-----------------|
| Created by: NDK | Date: 5/1/2018 |
| Last revision by: RM | Date: 4/7/2021 |
| Checked by: NDK | Date: 4/7/2021 |
| Scientist or Proj Mgr QA/QC: TK | Date: 5/24/2021 |

**Table 5B. Groundwater Analytical Results Summary - Assessment Monitoring
April - December 2021
Burlington Generating Station, Burlington, IA / SCS Engineers Project #25220066.00**

| Parameter Name | UPL Method | UPL | GPS | Background Wells | | | | | | Compliance Wells | | | |
|------------------------------------------------------|---------------------------|--------|-------|------------------|------------|-----------|------------|-----------|------------|------------------|------------|-----------|------------|
| | | | | MW-310 | | MW-310A | | MW-311 | | MW-301 | | MW-302 | |
| | | | | 4/19/2021 | 10/12/2021 | 4/20/2021 | 10/14/2021 | 4/19/2021 | 10/12/2021 | 4/19/2021 | 10/13/2021 | 4/19/2021 | 10/12/2021 |
| Appendix III | | | | | | | | | | | | | |
| Boron, ug/L | NP | 3,500 | | 220 | 310 | 1,100 | 940 | 2,000 | 1,800 | 9,600 | 7,300 | 11,000 | 10,000 |
| Calcium, mg/L | P | 220 | | 190 | 84 | 52 | 51 | 98 | 160 | 240 | 260 | 200 | 160 |
| Chloride, mg/L | P | 193 | | 16 | 14 | 14 | 14 | 100 | 110 | 18 | 19 | 10 | 12 |
| Fluoride, mg/L | P | 0.650 | | 0.37 J | <0.28 | 0.44 J | 0.75 | <0.28 | <0.28 | 0.58 | <0.28 | <0.28 | <0.28 F1 |
| Field pH, Std. Units | P | 7.55 | | 7.21 | 7.22 | 7.41 | 7.07 | 7.16 | 7.17 | 7.03 | 7.01 | 8.15 | 8.28 |
| Sulfate, mg/L | P | 288 | | 55 | 55 | 120 | 99 | 200 | 190 | 240 | 630 | 410 | 280 |
| Total Dissolved Solids, mg/L | P | 1,160 | | 370 | 280 | 660 | 520 | 870 | 750 | 1200 | 1500 | 860 | 680 |
| Appendix IV | | | | | | | | | | | | | |
| | | UPL | GPS | | | | | | | | | | |
| Antimony, ug/L | P* | 1.90 | 6 | <1.1 | <1.1 | <1.1 | <1.1 | <1.1 | <1.1 | <1.1 | <1.1 | <1.1 | <1.1 |
| Arsenic, ug/L** | P | 79.8 | 79.8 | 16 | 63 | 3.5 | 3.6 | 55 | 22 | 61 | 66 | 75 | 100 |
| Barium, ug/L | P | 829 | 2,000 | 280 | 290 | 75 | 64 | 370 | 230 | 560 | 170 | 320 | 270 |
| Beryllium, ug/L | NP* | 0.270 | 4 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 |
| Cadmium, ug/L | NP* | 0.0770 | 5 | <0.051 | <0.051 | <0.051 | <0.051 | <0.051 | <0.051 | 0.066 J | 0.098 J | 0.089 J | 0.12 |
| Chromium, ug/L | P* | 1.33 | 100 | <1.1 | <1.1 | 1.5 J | <1.1 | <1.1 | <1.1 | <1.1 | <1.1 | <1.1 | <1.1 |
| Cobalt, ug/L | P | 2.70 | 6 | 0.29 J | 1.4 | 3 | 3.0 | 1.4 | 0.31 J | 0.81 | 0.74 | 0.21 J | 0.27 J |
| Fluoride, mg/L | P | 0.650 | 4 | 0.37 J | <0.28 | 0.44 J | 0.75 | <0.28 | <0.28 | 0.58 | <0.28 F1 | <0.28 | <0.28 |
| Lead, ug/L | NP* | 1.10 | 15 | <0.21 | <0.21 | 2.8 | 3.3 | <0.21 | <0.21 | <0.21 | <0.21 | <0.21 | <0.21 |
| Lithium, ug/L | NP* | 9.80 | 40 | <2.5 | <2.5 | 40 | 34 | <2.5 | <2.5 | 10 | 11 | 64 | 64 |
| Mercury, ug/L | DQ | 0.130 | 2 | <0.15 | -- | <0.15 | -- | <0.15 | -- | <0.15 | -- | <0.15 | -- |
| Molybdenum, ug/L | NP | 25.2 | 100 | 14 | 4.9 | 24 | 20 | 4.1 | 6.9 | 46 | 47 | 130 | 91 |
| Selenium, ug/L | P* | 1.00 | 50 | <0.96 | <0.96 | <0.96 | <0.96 | <0.96 | <0.96 | 1.3 J | 0.97 J | 1.4 J | <0.96 |
| Thallium, ug/L | NP* | 0.500 | 2 | <0.26 | <0.26 | <0.26 | <0.26 | <0.26 | <0.26 | 1 | <0.26 | 1.2 | <0.26 |
| Radium 226/228 Combined, pCi/L | P | 3.28 | 5 | 0.869 | 1.25 | 2.51 | 4.20 | 0.520 | 0.189 | 1.02 | 0.97 | 0.906 | 1.22 |
| Additional Parameters for Selection of Remedy | | | | | | | | | | | | | |
| Lithium, dissolved, # ug/L | UPL or GPS not applicable | | | -- | <2.5 | -- | 32 | -- | <2.5 | -- | 10 | 59 | 63 |
| Iron, dissolved, # ug/L | UPL or GPS not applicable | | | 20,000 | 15,000 | <36 | <36 | 20,000 | 15,000 | 39,000 | 39,000 | 1,600 | 2,900 |
| Iron, ug/L | UPL or GPS not applicable | | | 20,000 | 15,000 | 1,000 | 950 | 20,000 | 15,000 | 41,000 | 38,000 | 2,000 | 3,600 |
| Magnesium, ug/L | UPL or GPS not applicable | | | 25,000 | 20,000 | 21,000 | 20,000 | 39,000 | 31,000 | 75,000 | 72,000 | 15,000 | 17,000 |
| Manganese, dissolved, # ug/L | UPL or GPS not applicable | | | 4,200 | 3,900 | 240 | 170 | 5,600 | 4,800 | 14,000 | 16,000 | 1,100 | 1,700 |
| Manganese, ug/L | UPL or GPS not applicable | | | 4,300 | 3,900 | 250 | 270 | 5,600 | 4,800 | 15,000 | 15,000 | 1,200 | 1,700 |
| Molybdenum, dissolved, # ug/L | UPL or GPS not applicable | | | -- | 5.2 | -- | 21 | -- | 8 | 44 | 49 | 120 | 110 |
| Potassium, ug/L | UPL or GPS not applicable | | | 2,100 | 2,100 | 5,900 | 5,200 | 2,300 | 2,200 | 3,700 | 3,300 | 13,000 | 12,000 |
| Sodium, ug/L | UPL or GPS not applicable | | | 11,000 | 12,000 | 180,000 | 140,000 | 62,000 | 56,000 | 63,000 | 110,000 | 30,000 | 28,000 |
| Bicarbonate Alkalinity, mg/L | UPL or GPS not applicable | | | 310 | 280 | 410 | 440 | 390 | 430 | 720 | 650 | 220 | 560 |
| Carbonate Alkalinity, mg/L | UPL or GPS not applicable | | | <4.6 | <4.6 | <4.6 | <4.6 | <4.6 | <4.6 | <4.6 | <4.6 | <4.6 | <4.6 |
| Total Alkalinity, mg/L | UPL or GPS not applicable | | | 310 | 280 | 410 | 440 | 390 | 430 | 720 | 650 | 220 | 560 |

4.4 Blue highlighted cell indicates the compliance well result exceeds the UPL (background) and the LOQ.
30.8 Yellow highlighted cell indicates the compliance well result exceeds the GPS.
17 Grayscale indicates Additional Parameters sampled for selection of remedy and evaluation of Monitored Natural Attenuation.

**Table 5B. Groundwater Analytical Results Summary - Assessment Monitoring
April - December 2021
Burlington Generating Station, Burlington, IA / SCS Engineers Project #25220066.00**

| Parameter Name | UPL Method | UPL | GPS | Delineation Well | | Compliance Wells | | | | | | | | Compliance Well | | Delineation Well | | | |
|------------------------------------------------------|---------------------------|--------|-------|------------------|------------|------------------|------------|-----------|------------|-----------|------------|-----------|------------|-----------------|------------|------------------|------------|----------|------------|
| | | | | MW-302A | | MW-303 | | MW-304 | | MW-305 | | MW-306 | | MW-307 | | MW-307A | | MW-307B | |
| | | | | 4/19/2021 | 10/12/2021 | 4/19/2021 | 10/13/2021 | 4/19/2021 | 10/13/2021 | 4/20/2021 | 10/14/2021 | 4/19/2021 | 10/11/2021 | 4/20/2021 | 10/11/2021 | 4/20/2021 | 10/11/2021 | 7/1/2021 | 10/11/2021 |
| Appendix III | | | | | | | | | | | | | | | | | | | |
| Boron, ug/L | NP | 3,500 | | 9,400 | 9,000 | 16,000 | 17,000 | 7,700 | 7,600 | 2,200 | 2,400 | 3,000 | 2,800 | 3,400 | 3,000 | 4,100 | 4,300 | 4,700 | 2,700 |
| Calcium, mg/L | P | 220 | | 140 | 140 | 140 | 130 | 110 | 130 | 110 | 130 | 41 | 42 | 39 | 42 | 11 | 10 | 75 | 66 |
| Chloride, mg/L | P | 193 | | 17 | 20 | 15 | 17 | 18 | 23 | 28 | 34 | 17 | 19 | 17 | 19 | 28 | 31 | 28 | 18 |
| Fluoride, mg/L | P | 0.650 | | <0.28 | <0.28 | <0.28 | <0.28 | <0.28 | <0.28 | 0.45 J | 0.31 J | <0.28 | <0.28 | <0.28 | <0.28 | 0.38 J | <0.28 | <0.28 | <0.28 |
| Field pH, Std. Units | P | 7.55 | | 7.34 | 7.69 | 7.25 | 7.25 | 8.32 | 7.53 | 7.30 | 7.24 | 10.02 | 5.83 | 10.02 | 9.89 | 7.74 | 7.83 | 7.67 | 7.72 |
| Sulfate, mg/L | P | 288 | | 310 | 410 | 250 | 250 | 280 | 220 | 28 | 52 | 110.0 | 120 | 140 | 170 | 110 | 140 | 110 | 77 |
| Total Dissolved Solids, mg/L | P | 1,160 | | 710 | 780 | 670 | 610 | 640 | 570 | 420 | 570 | 260 | 250 | 330 | 280 | 330 | 310 | 330 | 230 |
| Appendix IV | | | | | | | | | | | | | | | | | | | |
| Antimony, ug/L | P* | 1.90 | 6 | <1.1 | <1.1 | <1.1 | <1.1 | <1.1 | <1.1 | <1.1 | <1.1 | 1.40 J | <1.1 | <1.1 | <1.1 | <1.1 | <1.1 | <1.1 | <1.1 |
| Arsenic, ug/L** | P | 79.8 | 79.8 | 2.1 | 1.7 J | 15 | 14 | 41 | 32 | <0.75 | <0.75 | 53 | 43 | 52 | 34 | <0.75 | <0.75 | <0.75 | <0.75 |
| Barium, ug/L | P | 829 | 2,000 | 310 | 230 | 450 | 360 | 180 | 160 | 220 | 240 | 19 | 17 | 39 | 39 | 48 | 43 | 260 | 310 |
| Beryllium, ug/L | NP* | 0.270 | 4 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 |
| Cadmium, ug/L | NP* | 0.0770 | 5 | <0.051 | <0.051 | <0.051 | 0.051 J | <0.051 | <0.051 | <0.051 | <0.051 | <0.051 | <0.051 | <0.051 | <0.051 | <0.051 | 0.069 J | <0.051 | 0.065 J |
| Chromium, ug/L | P* | 1.33 | 100 | <1.1 | <1.1 | <1.1 | <1.1 | <1.1 | <1.1 | <1.1 | <1.1 | <1.1 | <1.1 | <1.1 | <1.1 | <1.1 | <1.1 | <1.1 | <1.1 |
| Cobalt, ug/L | P | 2.70 | 6 | 0.11 J | <0.19 | 0.42 J | 0.42 J | <0.091 | <0.19 | 0.14 J | 0.21 J | <0.091 | <0.19 | <0.091 | <0.19 | <0.091 | <0.19 | 0.26 J | <0.19 |
| Fluoride, mg/L | P | 0.650 | 4 | <0.28 | <0.28 | <0.28 | <0.28 | <0.28 | <0.28 | 0.45 J | 0.31 J | <0.28 | <0.28 | <0.28 | <0.28 | 0.38 J | <0.28 | <0.28 | <0.28 |
| Lead, ug/L | NP* | 1.10 | 15 | <0.21 | <0.21 | <0.21 | <0.21 | <0.21 | <0.21 | <0.21 | <0.21 | <0.21 | 0.26 J | <0.21 | <0.21 | 0.59 | 0.77 | <0.21 | <0.21 |
| Lithium, ug/L | NP* | 9.80 | 40 | 9.6 J | 12 | 66 | 61 | 75 | 60 | 36 | 32 | 43 | 41 | 53 | 52 | 8.7 J | 7.7 J | 9.6 J | 7.0 J |
| Mercury, ug/L | DQ | 0.130 | 2 | <0.15 | -- | <0.15 | -- | <0.15 | -- | <0.15 | -- | <0.15 | -- | <0.15 | -- | <0.15 | -- | <0.15 | -- |
| Molybdenum, ug/L | NP | 25.2 | 100 | 95 | 93 | 120 | 120 | 100 | 59 | <1.3 | <1.3 | 87 | 69 | 140 | 85 | 120 | 110 | 40 | 25 |
| Selenium, ug/L | P* | 1.00 | 50 | <0.96 | <0.96 | <0.96 | <0.96 | <0.96 | <0.96 | <0.96 | <0.96 | <0.96 | 1.2 J | <0.96 | <0.96 | <0.96 | <0.96 | <0.96 | <0.96 |
| Thallium, ug/L | NP* | 0.500 | 2 | <0.26 | <0.26 | <0.26 | <0.26 | <0.26 | <0.26 | <0.26 | <0.26 | <0.26 | <0.26 | <0.26 | <0.26 | <0.26 | <0.26 | <0.26 | <0.26 |
| Radium 226/228 Combined, pCi/L | P | 3.28 | 5 | 1.4 | 2.08 | 2.21 | 0.678 | 0.699 | 0.797 | 0.761 | 0.871 | 0.415 | 0.114 | 0.0114 | 1.14 | 0.307 | 0.981 | 0.955 | 1.38 |
| Additional Parameters for Selection of Remedy | | | | | | | | | | | | | | | | | | | |
| Lithium, dissolved, # ug/L | UPL or GPS not applicable | | | 9.1 J | 12 | 59 | 62 | 57 | 61 | -- | 31 | 41.0 | 38.0 | 51.0 | 50.0 | 8.3 J | 6.9 J | 9.5 J | 7.0 J |
| Iron, dissolved, # ug/L | | | | 7,500 | 6,600 | 7,500 | 7,000 | 1300 | 1900 | 1,700 | 2,100 | <36 | <36 | <36 | <36 | 430 | 390 | 1,700 | 1200 |
| Iron, ug/L | | | | 8,000 | 6,900 | 7,900 | 6,900 | 1500 | 2000 | 1,800 | 2,100 | <36 | <36 | <36 | <36 | 500 | 450 | 2,100 | 1300 |
| Magnesium, ug/L | | | | 34,000 | 33,000 | 22,000 | 20,000 | 6,300 | 6,600 | 22,000 | 24,000 | <100 | 120 J | <100 | <100 | 1,600 | 1,500 | 15,000 | 16,000 |
| Manganese, dissolved, # ug/L | | | | 3,500 | 3,300 | 3,800 | 4,000 | 680 | 1100 | 2,000 | 2,900 | <4.4 | 8.0 J | 5.10 J | 6.5 J | 390 | 390 | 800 | 330 |
| Manganese, ug/L | | | | 3,600 | 3,500 | 4,000 | 4,000 | 710 | 1100 | 2,100 | 2,800 | <4.4 | 7.7 J | 5.50 J | 6.4 J | 410 | 390 | 850 | 310 |
| Molybdenum, dissolved, # ug/L | | | | 89 | 99 | 110 | 130 | 99 | 90 | -- | <1.3 | -- | 77 | 140 | 90 | 120 | 120 | 40 | 28 |
| Potassium, ug/L | | | | 3,500 | 3,600 | 23,000 | 18,000 | 11,000 | 12,000 | 5,500 | 6,100 | 23,000 | 20,000 | 37,000 | 36,000 | 3,100 | 2,800 | 3,000 | 1,600 |
| Sodium, ug/L | | | | 33,000 | 51,000 | 34,000 | 28,000 | 53,000 | 46,000 | 51,000 | 53,000 | 40,000 | 45,000 | 53,000 | 49,000 | 110,000 | 100,000 | 23,000 | 16,000 |
| Bicarbonate Alkalinity, mg/L | | | | 190 | 200 | 280 | 270 | 150 | 250 | 390 | 550 | <2.3 | 95 | <4.6 | 9.5 J | 93 | 100 | 150 | 160 |
| Carbonate Alkalinity, mg/L | | | | <2.3 | <4.6 | <4.6 | <4.6 | <2.3 | <4.6 | <4.3 | <4.6 | 50 | <4.6 | 79 | 110 | <2.3 | <4.6 | <4.6 | <4.6 |
| Total Alkalinity, mg/L | | | | 190 | 200 | 280 | 270 | 150 | 250 | 390 | 550 | 74 | 95 | 89 | 120 | 93 | 100 | 150 | 160 |

**Table 5B. Groundwater Analytical Results Summary - Assessment Monitoring
April - December 2021
Burlington Generating Station, Burlington, IA / SCS Engineers Project #25220066.00**

| Parameter Name | UPL Method | UPL | GPS | Compliance Wells | | | | Delineation Wells | | | | | | | |
|------------------------------------------------------|---------------------------|--------|-------|------------------|------------|-----------|------------|-------------------|------------|-----------|------------|-----------|------------|----------|------------|
| | | | | MW-308 | | MW-309 | | MW-312 | | MW-313 | | MW-313A | | MW-313B | |
| | | | | 4/20/2021 | 10/12/2021 | 4/19/2021 | 10/12/2021 | 4/19/2021 | 10/14/2021 | 4/19/2021 | 10/13/2021 | 4/19/2021 | 10/13/2021 | 7/1/2021 | 10/14/2021 |
| Appendix III | | | | | | | | | | | | | | | |
| Boron, ug/L | NP | 3,500 | | 4,300 | 3,900 | 5,000 | 4,400 | 5,800 | 5,300 | 6,900 | 4,800 | 4,100 | 3,500 | 4,300 | 4,200 |
| Calcium, mg/L | P | 220 | | 38 | 38 | 76 | 71 | 84 | 70 | 120 | 70 | 42 | 30 | 70 | 44 |
| Chloride, mg/L | P | 193 | | 39 | 41 | 85 | 79 | 20 | 24 | 72 | 230 | 140 | 100 | 160 | 89 |
| Fluoride, mg/L | P | 0.650 | | <0.28 | <0.28 | 0.36 J | 0.39 J | 0.33 J | <0.28 | <0.28 | 0.47 J | 0.46 J | 0.38 J | 0.44 J | <0.28 |
| Field pH, Std. Units | P | 7.55 | | 9.56 | 9.97 | 7.26 | 7.18 | 7.22 | 7.20 | 7.09 | 7.25 | 7.58 | 7.53 | 7.62 | 7.54 |
| Sulfate, mg/L | P | 288 | | 140 | 190 | 57 | 120 | 190 | 190 | 120 | 230 | 150 | 140 | 170 | 140 |
| Total Dissolved Solids, mg/L | P | 1,160 | | 430 | 410 | 570 | 470 | 540 | 480 | 680 | 740 | 580 | 440 | 620 | 420 |
| Appendix IV | | | | | | | | | | | | | | | |
| | | UPL | GPS | | | | | | | | | | | | |
| Antimony, ug/L | P* | 1.90 | 6 | <1.1 | <1.1 | <1.1 | <1.1 | <1.1 | <1.1 | <1.1 | <1.1 | <1.1 | <1.1 | <1.1 | <1.1 |
| Arsenic, ug/L** | P | 79.8 | 79.8 | 73 | 59 | 30 | 24 | 18 | 17 | 5.2 | 4.7 | <0.75 | <0.75 | <0.75 | <0.75 |
| Barium, ug/L | P | 829 | 2,000 | 79 | 82 | 340 | 370 | 200 | 170 | 630 | 390 | 240 | 150 | 210 | 170 |
| Beryllium, ug/L | NP* | 0.270 | 4 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 |
| Cadmium, ug/L | NP* | 0.0770 | 5 | <0.051 | <0.051 | <0.051 | <0.051 | 0.053 J | 0.086 J | <0.051 | 0.069 J | <0.051 | <0.051 | 0.060 J | 0.090 J |
| Chromium, ug/L | P* | 1.33 | 100 | <1.1 | <1.1 | <1.1 | <1.1 | <1.1 | <1.1 | <1.1 | <1.1 | <1.1 | <1.1 | <1.1 | <1.1 |
| Cobalt, ug/L | P | 2.70 | 6 | <0.091 | <0.19 | 0.39 J | 0.29 J | 0.54 | 0.42 J | 0.2 J | <0.19 | <0.091 | <0.19 | 0.25 J | <0.19 |
| Fluoride, mg/L | P | 0.650 | 4 | <0.28 | <0.28 | 0.36 J | 0.39 J | 0.33 J | <0.28 | <0.28 | 0.47 J | 0.46 J | 0.38 J | 0.44 J | <0.28 |
| Lead, ug/L | NP* | 1.10 | 15 | <0.21 | <0.21 | <0.21 | <0.21 | <0.21 | <0.21 | <0.21 | <0.21 | <0.21 | <0.21 | <0.21 | <0.21 |
| Lithium, ug/L | NP* | 9.80 | 40 | 54 | 58 | 3.8 J | 2.8 J | 30 | 24 | 36 | 18 | 14 | 11 | 18 | 13 |
| Mercury, ug/L | DQ | 0.130 | 2 | <0.15 | -- | <0.15 | -- | <0.15 | -- | <0.15 | -- | <0.15 | -- | <0.15 | -- |
| Molybdenum, ug/L | NP | 25.2 | 100 | 120 | 81 | 50 | 39 | 310 | 240 | 140 | 170 | 100 | 100 | 100 | 100 |
| Selenium, ug/L | P* | 1.00 | 50 | <0.96 | <0.96 | <0.96 | <0.96 | <0.96 | <0.96 | <0.96 | <0.96 | <0.96 | <0.96 | <0.96 | <0.96 |
| Thallium, ug/L | NP* | 0.500 | 2 | <0.26 | <0.26 | <0.26 | <0.26 | <0.26 | <0.26 | <0.26 | <0.26 | <0.26 | <0.26 | <0.26 | <0.26 |
| Radium 226/228 Combined, pCi/L | P | 3.28 | 5 | 0.0966 | -0.0014 | 0.509 | 0.618 | 0.218 | 0.0710 | 2.3 | 1.60 | 1.09 | 1.76 | 1.000 | 0.457 |
| Additional Parameters for Selection of Remedy | | | | | | | | | | | | | | | |
| Lithium, dissolved, # ug/L | UPL or GPS not applicable | | | 51.0 | 57 | -- | 2.8 J | -- | 23 | 36.0 | 19.0 | 14.0 | 10.0 | 18.0 | 13 |
| Iron, dissolved, # ug/L | | | | <36 | <36 | 12,000 | 14,000 | 11,000 | 8,500 | 18,000 | 9,800 | 1,400 | 920 | 880 | 700 |
| Iron, ug/L | | | | <36 | <36 | 14,000 | 15,000 | 11,000 | 8,500 | 18,000 | 11,000 | 1,500 | 960 | 990 | 730 |
| Magnesium, ug/L | | | | 1,800 | 420 J | 24,000 | 22,000 | 13,000 | 9,700 | 29,000 | 16,000 | 3,900 | 2,400 | 9,500 | 5,800 |
| Manganese, dissolved, # ug/L | | | | 250 | 30 | 3,700 | 3,500 | 7,800 | 5,900 | 8,400 | 4,700 | 600 | 420 | 570 | 390 |
| Manganese, ug/L | | | | 250 | 32 | 3,700 | 3,500 | 8,900 | 5,900 | 8,700 | 4,900 | 600 | 420 | 590 | 410 |
| Molybdenum, dissolved, # ug/L | | | | 110 | 82 | 49 | 39 | 300 | 250 | 140 | 180 | 100 | 110 | 100 | 110 |
| Potassium, ug/L | | | | 37,000 | 40,000 | 3,700 | 2,600 | 11,000 | 11,000 | 9,900 | 5,500 | 11,000 | 7,600 | 9,500 | 6,800 |
| Sodium, ug/L | | | | 88,000 | 79,000 | 100,000 | 79,000 | 76,000 | 68,000 | 75,000 | 160,000 | 150,000 | 130,000 | 130,000 | 110,000 |
| Bicarbonate Alkalinity, mg/L | | | | 38.0 | 4.7 J | 310 | 280 | 190 | 210 | 190 | 110 | 97.0 | 130.0 | 100 | 140.0 |
| Carbonate Alkalinity, mg/L | | | | 75.0 | 95 | <4.6 | <4.6 | <4.2 | <4.6 | <4.6 | <4.6 | <4.3 | <4.6 | <4.6 | <4.6 |
| Total Alkalinity, mg/L | | | | 110 | 99 | 310 | 280 | 190 | 210 | 190 | 110 | 97.0 | 130.0 | 100 | 140.0 |

**Table 5B. Groundwater Analytical Results Summary - Assessment Monitoring
April - December 2021
Burlington Generating Station, Burlington, IA / SCS Engineers Project #25220066.00**

Abbreviations:

UPL = Upper Prediction Limit
NA = Not Analyzed
mg/L = milligrams per liter

GPS = Groundwater Protection Standard
DQ = Double Quantification Rule (not detected in background)
NP = Nonparametric UPL (highest background value) with 1-of-2 retesting

LOD = Limit of Detection
LOQ = Limit of Quantification
P = Parametric UPL with 1-of-2 retesting

J = Estimated concentration at or above the LOD and below the LOQ.

* = UPL is below the LOQ for background sampling. For compliance wells, only results confirmed above the LOQ are evaluated as potential SSIs above background.

** = UPL for arsenic is greater than the MCL and will be used as the GPS.

= Dissolved parameter samples collected for MNA data review

Notes:

1. An individual result above the UPL or GPS does not constitute a statistically significant increase (SSI) above background or statistically significant level above the GPS. See the accompanying letter text for identification of statistically significant results.
2. GPS is the United States Environmental Protection Agency (US EPA) Maximum Contamination Level (MCL), if established, or the value from 40 CFR 257.95(h)(2), or the background UPL if it is higher.
3. Interwell UPLs calculated based on results from background wells MW-310 and MW-311.

| | |
|----------------------------------------|------------------------|
| Created by: <u>NDK</u> | Date: <u>5/1/2018</u> |
| Last revision by: <u>MDB</u> | Date: <u>1/21/2022</u> |
| Checked by: <u>JAO</u> | Date: <u>1/21/2022</u> |
| Scientist or Proj Mgr QA/QC: <u>TK</u> | Date: <u>1/25/2022</u> |

Table 6. Groundwater Field Data Summary
Burlington Generating Station / SCS Engineers Project #25221066.00

| Well | Sample Date | Groundwater Elevation (feet) | Field Temperature (deg C) | Field pH (Std. Units) | Oxygen, Dissolved (mg/L) | Field Specific Conductance (umhos/cm) | Field Oxidation Potential (mV) | Turbidity (NTU) |
|---------|-------------|------------------------------|---------------------------|-----------------------|--------------------------|---------------------------------------|--------------------------------|-----------------|
| MW-301 | 3/1/2021 | 521.10 | 12.2 | 6.9 | 0.16 | 1562 | -176.6 | 3.50 |
| | 4/19/2021 | 522.87 | 12.3 | 7.0 | 1.61 | 1760 | -162.4 | 3.82 |
| | 10/13/2021 | 519.40 | 13.6 | 7.0 | 0.17 | 1858 | -142.8 | 14.10 |
| MW-302 | 3/1/2021 | 520.21 | 12.3 | 8.0 | 0.11 | 1101 | -236.9 | 2.70 |
| | 4/19/2021 | 522.27 | 12.0 | 8.2 | 0.07 | 1169 | -225.8 | 4.07 |
| | 10/12/2021 | 518.75 | 13.8 | 8.3 | 0.18 | 1043 | -193.7 | 31.20 |
| MW-302A | 3/1/2021 | 520.14 | 12.5 | 7.2 | 0.16 | 975 | -165.6 | 0.48 |
| | 4/19/2021 | 522.25 | 12.7 | 7.3 | 0.18 | 1026 | -150.2 | 2.94 |
| | 10/12/2021 | 518.64 | 13.6 | 7.7 | 0.26 | 1124 | -115.3 | 11.20 |
| MW-303 | 3/1/2021 | 520.09 | 13.6 | 7.2 | 0.12 | 916 | -174.2 | 1.82 |
| | 4/19/2021 | 522.13 | 13.2 | 7.3 | 0.19 | 995 | -144.8 | 4.35 |
| | 10/13/2021 | 518.58 | 13.9 | 7.3 | 0.16 | 843 | -118.4 | 13.60 |
| MW-304 | 3/1/2021 | 520.15 | 14.1 | 8.3 | 0.07 | 971 | -280.2 | 0.02 |
| | 4/19/2021 | 522.24 | 13.2 | 8.3 | 0.07 | 935 | -257.8 | 3.34 |
| | 10/13/2021 | 518.68 | 14.5 | 7.5 | 0.15 | 806 | -149.0 | 7.70 |
| MW-305 | 3/2/2021 | 520.48 | 14.8 | 7.3 | 0.44 | 865 | -154.0 | 0.02 |
| | 4/20/2021 | 522.31 | 14.7 | 7.3 | 0.11 | 839 | -135.7 | 1.97 |
| | 10/14/2021 | 519.18 | 14.7 | 7.2 | 0.17 | 911 | -95.1 | 9.00 |
| MW-306 | 3/2/2021 | 520.65 | 14.1 | 9.5 | 0.39 | 415 | -196.0 | 0.02 |
| | 4/19/2021 | 522.52 | 13.8 | 10.0 | 0.34 | 442 | -188.0 | 0.02 |
| | 10/11/2021 | 519.15 | 16.0 | 5.8 | 0.28 | 476.1 | 12.3 | 6.90 |
| MW-307 | 3/2/2021 | 521.01 | 14.0 | 10.0 | 0.38 | 552 | -233.0 | 0.49 |
| | 4/20/2021 | 522.89 | 13.9 | 10.0 | 0.08 | 546 | -242.4 | 2.38 |
| | 10/11/2021 | 519.55 | 14.4 | 9.9 | 0.16 | 547.9 | -215.3 | 8.20 |
| MW-307A | 3/2/2021 | 520.52 | 14.0 | 7.7 | 0.29 | 568 | -171.0 | 0.95 |
| | 4/20/2021 | 522.39 | 13.7 | 7.7 | 0.13 | 566 | -167.3 | 2.89 |
| | 10/11/2021 | 519.09 | 14.4 | 7.8 | 0.12 | 551 | -133.4 | 7.40 |
| MW-307B | 7/1/2021 | 520.12 | 15.3 | 7.7 | 0.41 | 587.1 | -76.5 | 1.26 |
| | 10/11/2021 | 519.13 | 14.4 | 7.7 | 0.10 | 459.6 | -130.6 | 10.10 |
| MW-308 | 3/2/2021 | 520.70 | 13.9 | 9.4 | 0.11 | 695 | -207.2 | 0.02 |
| | 4/20/2021 | 522.57 | 14.1 | 9.6 | 0.08 | 690 | -172.9 | 1.77 |
| | 10/12/2021 | 519.25 | 15.0 | 10.0 | 0.06 | 728 | -219.8 | 8.80 |
| MW-309 | 3/1/2021 | 520.75 | 13.7 | 7.2 | 0.12 | 816 | -196.3 | 13.80 |
| | 4/19/2021 | 522.72 | 13.2 | 7.3 | 0.16 | 1017 | -170.7 | 21.20 |
| | 10/12/2021 | 519.43 | 15.3 | 7.2 | 0.17 | 927 | -155.1 | 19.60 |
| MW-310 | 4/19/2021 | 525.46 | 10.8 | 7.2 | 0.17 | 735 | -193.2 | 2.57 |
| | 10/12/2021 | 524.69 | 17.3 | 7.2 | 0.18 | 668 | -181.6 | 11.40 |
| MW-310A | 3/3/2021 | 487.06 | 13.2 | 7.2 | 3.10 | 1051 | 145.9 | NM |
| | 4/20/2021 | 521.12 | 11.7 | 7.4 | 3.69 | 1042 | 55.0 | NM |
| | 10/12/2021 | 521.83 | 15.5 | 7.1 | 2.04 | 842 | 153.3 | 80.00 |
| MW-311 | 3/1/2021 | 522.89 | 11.5 | 7.0 | 0.13 | 1363 | -179.2 | 1.33 |
| | 4/19/2021 | 523.89 | 10.9 | 7.2 | 0.48 | 1473 | -158.6 | 4.56 |
| | 10/12/2021 | 522.00 | 14.9 | 7.2 | 0.17 | 1431 | -157.6 | 11.10 |
| MW-312 | 3/1/2021 | 520.12 | 14.1 | 7.1 | 0.14 | 814 | -192.4 | 0.89 |
| | 4/19/2021 | 522.20 | 13.7 | 7.2 | 0.12 | 875 | -162.9 | 8.82 |
| | 10/14/2021 | 518.78 | 15.7 | 7.2 | 0.20 | 688 | -143.4 | 13.10 |
| MW-313 | 3/2/2021 | 520.18 | 14.8 | 7.0 | 0.13 | 1224 | -148.0 | 7.46 |
| | 4/19/2021 | 522.23 | 14.5 | 7.1 | 0.21 | 1165 | -152.8 | 4.54 |
| | 10/13/2021 | 518.72 | 15.9 | 7.3 | 0.10 | 1198 | -117.9 | 24.80 |
| MW-313A | 3/1/2021 | 520.02 | 14.1 | 7.5 | 0.12 | 927 | -195.9 | 0.78 |
| | 4/19/2021 | 522.11 | 14.2 | 7.6 | 0.09 | 1023 | -172.1 | 1.71 |
| | 10/13/2021 | 518.62 | 15.4 | 7.5 | 0.11 | 757 | -117.7 | 7.70 |
| MW-313B | 7/1/2021 | 519.51 | 15.2 | 7.6 | 0.37 | 1052 | -5.1 | 0.00 |
| | 10/13/2021 | 518.72 | 15.4 | 7.5 | 0.09 | 714 | -90.8 | 8.60 |

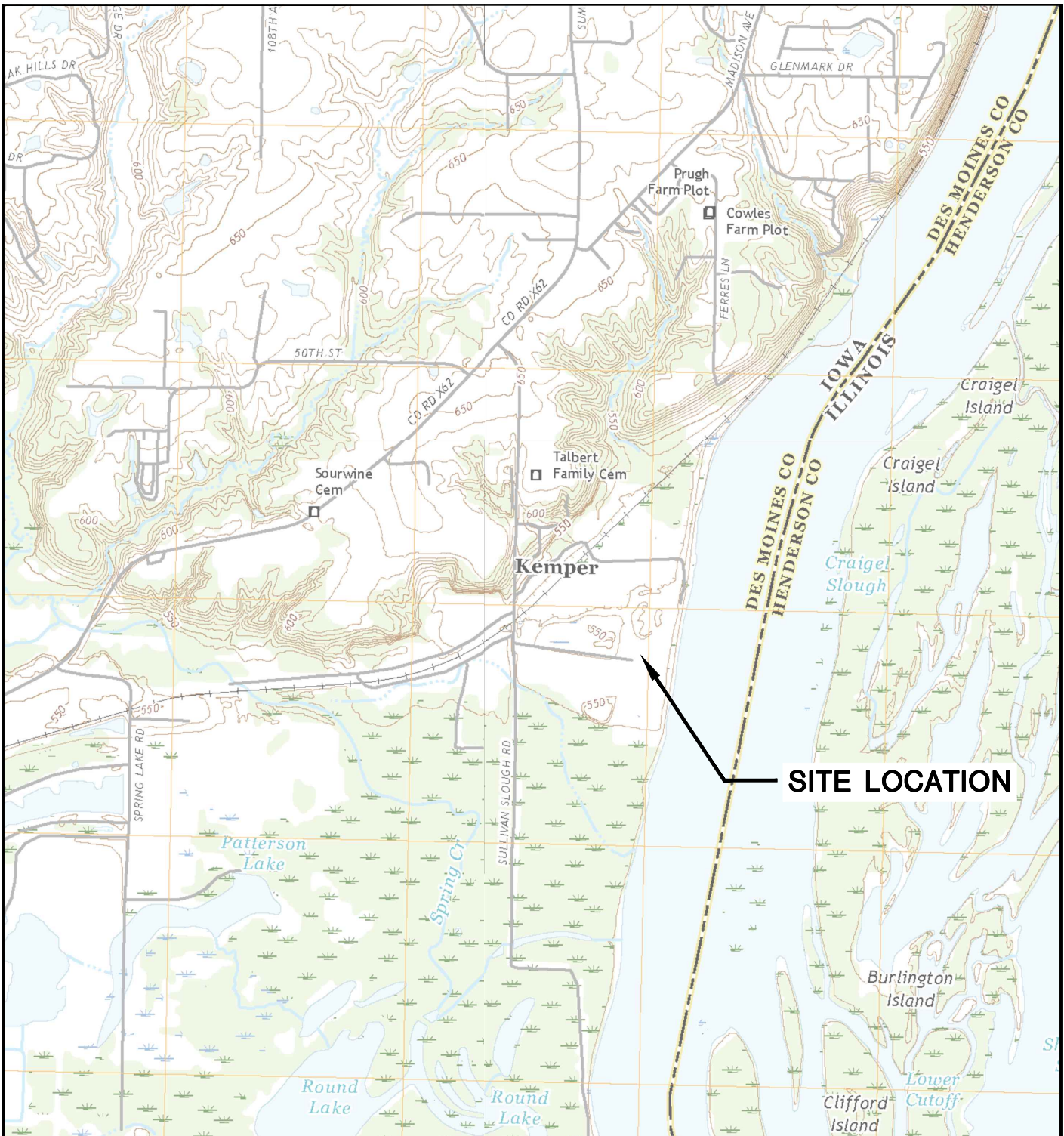
Notes:
 NM = Not Measured

Created by: RM
 Last revision by: RM
 Checked by: JAO

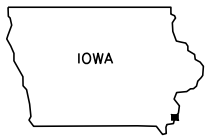
Date: 12/24/2020
 Date: 12/20/2021
 Date: 12/23/2021

Figures

- 1 Site Location Map
- 2 Site Plan and Monitoring Well Locations
- 3 Shallow Potentiometric Surface Map –
April 19-20, 2021
- 4 Deep Potentiometric Surface Map – April 19-20, 2021
- 5 Shallow Potentiometric Surface Map –
October 11-14, 2021
- 6 Deep Potentiometric Surface Map –
October 11-14, 2021



LOMAX QUADRANGLE
 ILLINOIS / IOWA-DES MOINES CO.
 7.5 MINUTE SERIES (TOPOGRAPHIC)
 2018
 SCALE: 1" = 2,000'



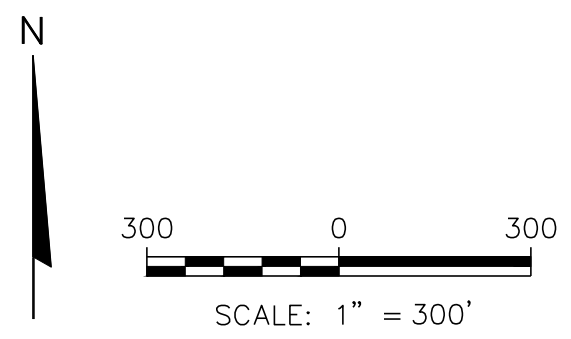
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|----------|---------------------------------------------------------------------|--------------|---------------|---------------------------------------------------------------------|-----|----------|-----------------------------------------------------------------------------------|---|-------------------|--|
| CLIENT | ALLIANT ENERGY 4902 N. BILTMORE LANE, #1000 MADISON, WI 53718 | | SITE | ALLIANT ENERGY BURLINGTON GENERATING STATION BURLINGTON, IOWA | | ENGINEER | SCS ENGINEERS 2830 DAIRY DRIVE MADISON, WI 53718-6751 PHONE: (608) 224-2830 | | SITE LOCATION MAP | |
| | PROJECT NO. | 25219066.00 | | DRAWN BY: | BSS | | FIGURE | 1 | | |
| | DRAWN: | 11/14/2019 | | CHECKED BY: | MDB | | | | | |
| REVISED: | 01/14/2020 | APPROVED BY: | TK 01/30/2020 | | | | | | | |



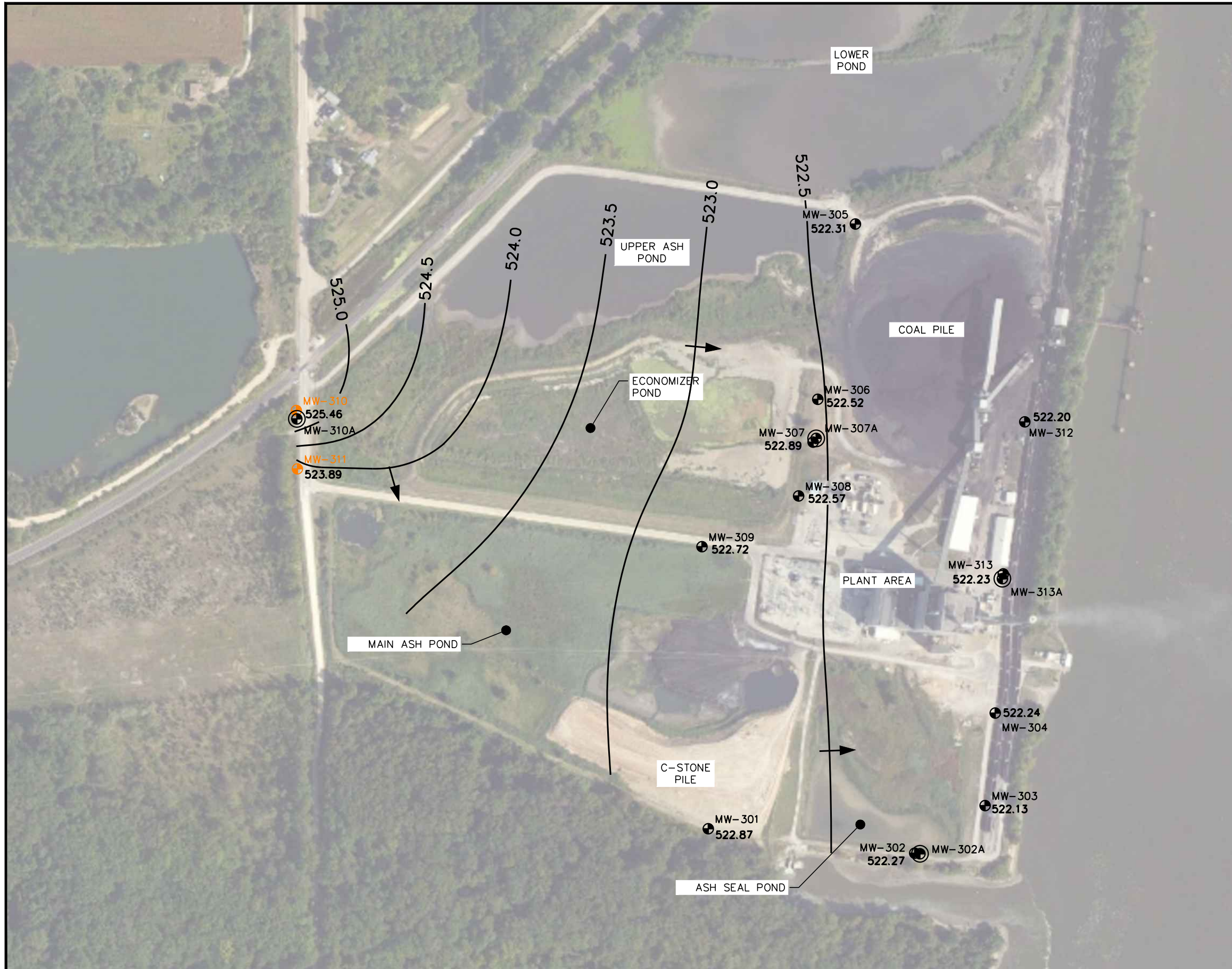
LEGEND

| | |
|--|-----------------------------------|
| | EXISTING CCR RULE MONITORING WELL |
| | CCR RULE PIEZOMETER |
| | CCR UNITS |

- NOTES:
1. MONITORING WELLS MW-303 THROUGH MW-308 WERE INSTALLED BY CASCADE DRILLING, LLP. UNDER THE SUPERVISION OF SCS ENGINEERS ON DECEMBER 15-17, 2015.
 2. MONITORING WELLS MW-301, MW-302, AND MW-309 THROUGH MW-311 WERE INSTALLED BY DIRECT PUSH ANALYTICAL SERVICES CORP. UNDER THE SUPERVISION OF SCS ENGINEERS FROM FEBRUARY 29, 2016 TO MARCH 1, 2016.
 3. MONITORING WELLS MW-312 AND MW-313 WERE INSTALLED BY ROBERTS ENVIRONMENTAL DRILLING IN MAY 2019.
 4. PIEZOMETERS MW-302A, MW-307A, MW-310A, AND MW-311A WERE INSTALLED BY ROBERTS ENVIRONMENTAL DRILLING IN JUNE-JULY 2020.
 5. PIEZOMETERS MW-307B AND MW-313B INSTALLED BY CASCADE DRILLING, LLP. UNDER THE SUPERVISION OF SCS ENGINEERS FROM AMY 10-12, 2021.
 6. 2018 AERIAL PHOTOGRAPH SOURCES: ESRI, DIGITALGLOBE, GEOEYE, I-CUBED, USDA FSA, USGS, AEX, GETMAPPING, AEROGRIID, IGN, IGP, SWISSTOPO, AND THE GIS USER COMMUNITY.



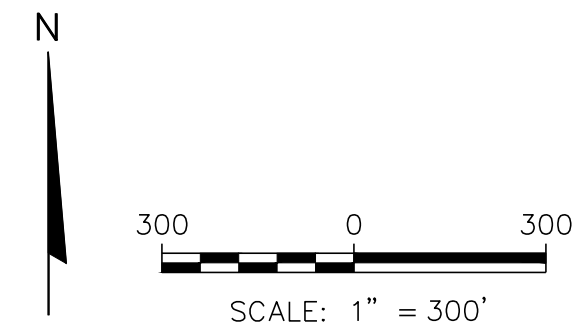
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|-------------------------|---------------------------|------------------------------------------------------------------------------------------|----------|---------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------|
| PROJECT NO. 25221066.00 | DRAWN BY: BSS/KRG | SCS ENGINEERS 2830 DAIRY DRIVE MADISON, WI 53718-6751 PHONE: (608) 224-2830 | CLIENT | ALLIANT ENERGY 4902 N. BILTMORE LANE, #1000 MADISON, WI 53718 | SITE ALLIANT ENERGY BURLINGTON GENERATING STATION BURLINGTON, IOWA | FIGURE 2 |
| DRAWN: 09/14/2020 | CHECKED BY: MDB | | ENGINEER | | | |
| REVISED: 08/05/2021 | APPROVED BY: TK 1/28/2022 | | | | | |



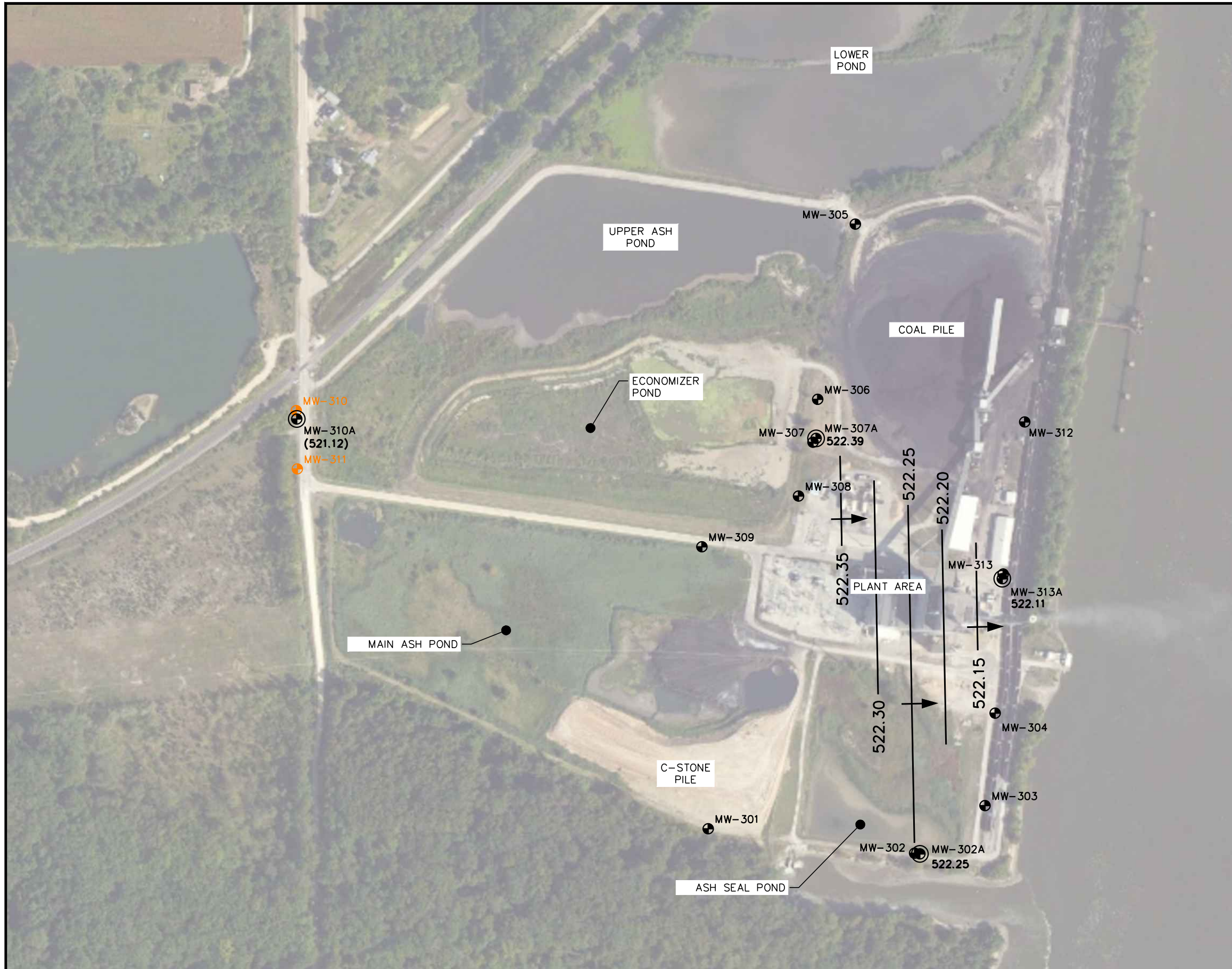
| LEGEND | |
|---------------|---------------------------------------------------------------------|
| | MONITORING WELL |
| | DEEP PIEZOMETER |
| | CCR BACKGROUND MONITORING WELL |
| 522.11 | WATER LEVEL MEASURED APRIL 19-20, 2021 |
| | POTENTIOMETRIC SURFACE ELEVATION CONTOUR (DASHED WHERE INFERRED) |
| | APPROXIMATE FLOW DIRECTION |

NOTES:

1. MONITORING WELLS MW-303 THROUGH MW-308 WERE INSTALLED BY CASCADE DRILLING, LLP. UNDER THE SUPERVISION OF SCS ENGINEERS ON DECEMBER 15-17, 2015.
2. MONITORING WELLS MW301, MW302, AND MW309-MW311 WERE INSTALLED BY DIRECT PUSH ANALYTICAL SERVICES CORP. UNDER THE SUPERVISION OF SCS ENGINEERS FROM FEBRUARY 29, 2016 TO MARCH 1, 2016.
3. MONITORING WELLS MW-301 THROUGH MW-311 WERE SURVEYED BY FRENCH-RENEKER ASSOCIATES OF FRANKLIN, IA ON MARCH 16, 2016.
4. MONITORING WELLS MW-312 AND MW-313 WERE INSTALLED BY ROBERTS ENVIRONMENTAL DRILLING IN MAY 2019.
5. DEEP PIEZOMETERS MW-302A, MW-307A, MW-310A, AND MW-313A WERE INSTALLED BY ROBERTS ENVIRONMENTAL DRILLING IN JUNE-JULY 2020.
6. GROUNDWATER ELEVATION ESTIMATED BASED ON MONITORING WELLS SCREENED BELOW THE POTENTIOMETRIC SURFACE IN THE SAND UNIT.
7. BACKGROUND MONITORING WELLS FOR THE BURLINGTON GENERATING STATION ARE: MW-310 AND MW-311.

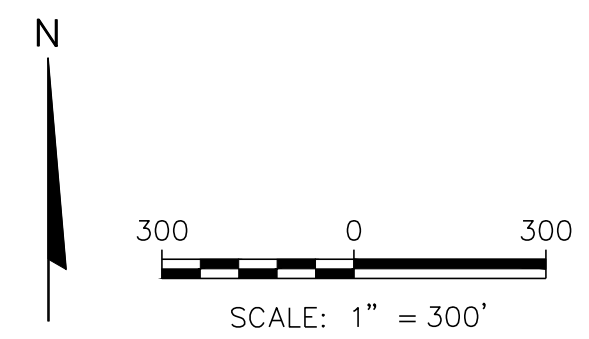


| | | | | | | | | |
|-------------------------|---------------------------|----------------------------------------------------------------------|----------|---------------------------------------------------------------------|------|---------------------------------------------------------------------|---------------------------------------------------------|-------------|
| PROJECT NO. 25221066.00 | DRAWN BY: KP | 2830 DAIRY DRIVE MADISON, WI 53718-6751 PHONE: (608) 224-2830 | CLIENT | ALLIANT ENERGY 4902 N. BILTMORE LANE, #1000 MADISON, WI 53718 | SITE | ALLIANT ENERGY BURLINGTON GENERATING STATION BURLINGTON, IOWA | SHALLOW POTENTIOMETRIC SURFACE MAP APRIL 19-20, 2021 | FIGURE 3 |
| DRAWN: 05/26/2021 | CHECKED BY: RM | | ENGINEER | | | | | |
| REVISED: 01/07/2022 | APPROVED BY: TK 1/7/20022 | | | | | | | |

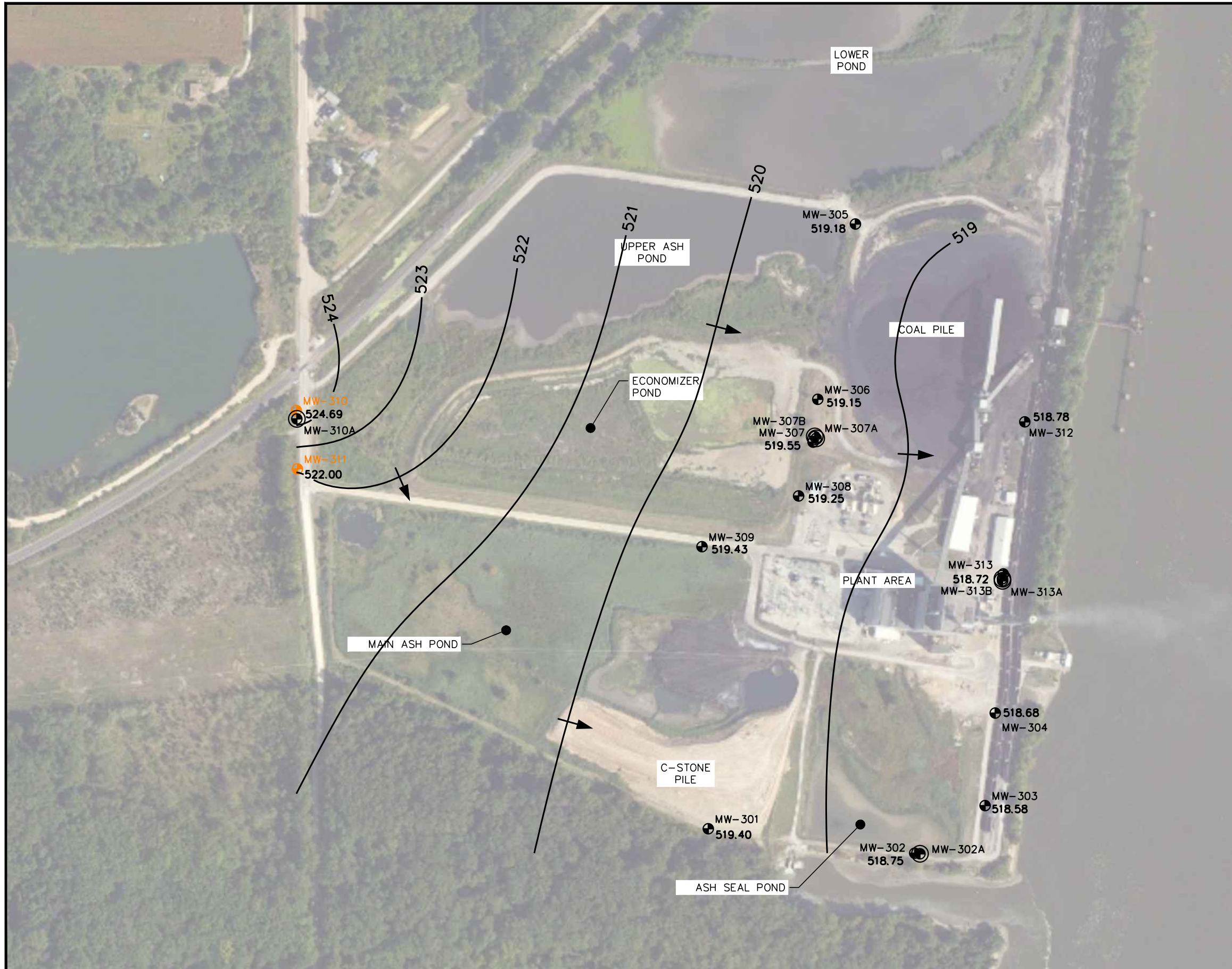


| LEGEND | |
|-----------------|-----------------------------------------------------------------------|
| | MONITORING WELL |
| | DEEP PIEZOMETER |
| | CCR BACKGROUND MONITORING WELL |
| 522.11 | WATER LEVEL MEASURED APRIL 19-20, 2021 |
| (521.12) | WATER LEVEL MEASURED APRIL 19-20, 2021, NOT USED FOR CONTOURING |
| | POTENTIOMETRIC SURFACE ELEVATION CONTOUR (DASHED WHERE INFERRED) |
| | APPROXIMATE FLOW DIRECTION |

- NOTES:
- MONITORING WELLS MW-303 THROUGH MW-308 WERE INSTALLED BY CASCADE DRILLING, LLP. UNDER THE SUPERVISION OF SCS ENGINEERS ON DECEMBER 15-17, 2015.
 - MONITORING WELLS MW301, MW302, AND MW309-MW311 WERE INSTALLED BY DIRECT PUSH ANALYTICAL SERVICES CORP. UNDER THE SUPERVISION OF SCS ENGINEERS FROM FEBRUARY 29, 2016 TO MARCH 1, 2016.
 - MONITORING WELLS MW-301 THROUGH MW-311 WERE SURVEYED BY FRENCH-RENEKER ASSOCIATES OF FRANKLIN, IA ON MARCH 16, 2016.
 - MONITORING WELLS MW-312 AND MW-313 WERE INSTALLED BY ROBERTS ENVIRONMENTAL DRILLING IN MAY 2019.
 - DEEP PIEZOMETERS MW-302A, MW-307A, MW-310A, AND MW-313A WERE INSTALLED BY ROBERTS ENVIRONMENTAL DRILLING IN JUNE-JULY 2020.
 - GROUNDWATER ELEVATION ESTIMATED BASED ON MONITORING WELLS SCREENED BELOW THE POTENTIOMETRIC SURFACE IN THE SAND UNIT.
 - BACKGROUND MONITORING WELLS FOR THE BURLINGTON GENERATING STATION ARE: MW-310 AND MW-311.
 - MW-310A IS SCREENED WITHIN MUDSTONE BEDROCK. THE GROUNDWATER ELEVATION AT THIS WELL IS NOT USED FOR POTENTIOMETRIC SURFACE CONTOURING.



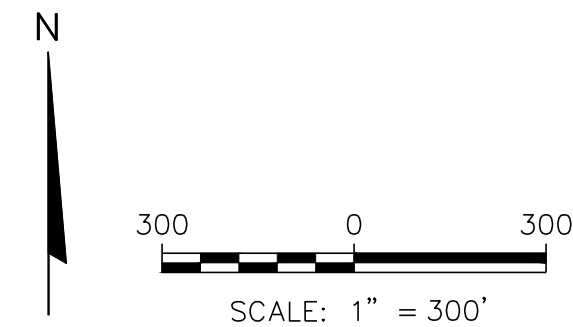
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|-------------------------|---------------------------|----------------------------------------------------------------------|----------|---------------------------------------------------------------------|------|---------------------------------------------------------------------|--------|---|
| PROJECT NO. 25221066.00 | DRAWN BY: KP | 2830 DAIRY DRIVE MADISON, WI 53718-6751 PHONE: (608) 224-2830 | CLIENT | ALLIANT ENERGY 4902 N. BILTMORE LANE, #1000 MADISON, WI 53718 | SITE | ALLIANT ENERGY BURLINGTON GENERATING STATION BURLINGTON, IOWA | FIGURE | 4 |
| DRAWN: 05/26/2021 | CHECKED BY: MDB | | ENGINEER | | | DEEP POTENTIOMETRIC SURFACE MAP APRIL 19-20, 2021 | | |
| REVISED: 01/24/2022 | APPROVED BY: TK 1/7/20022 | | | | | | | |



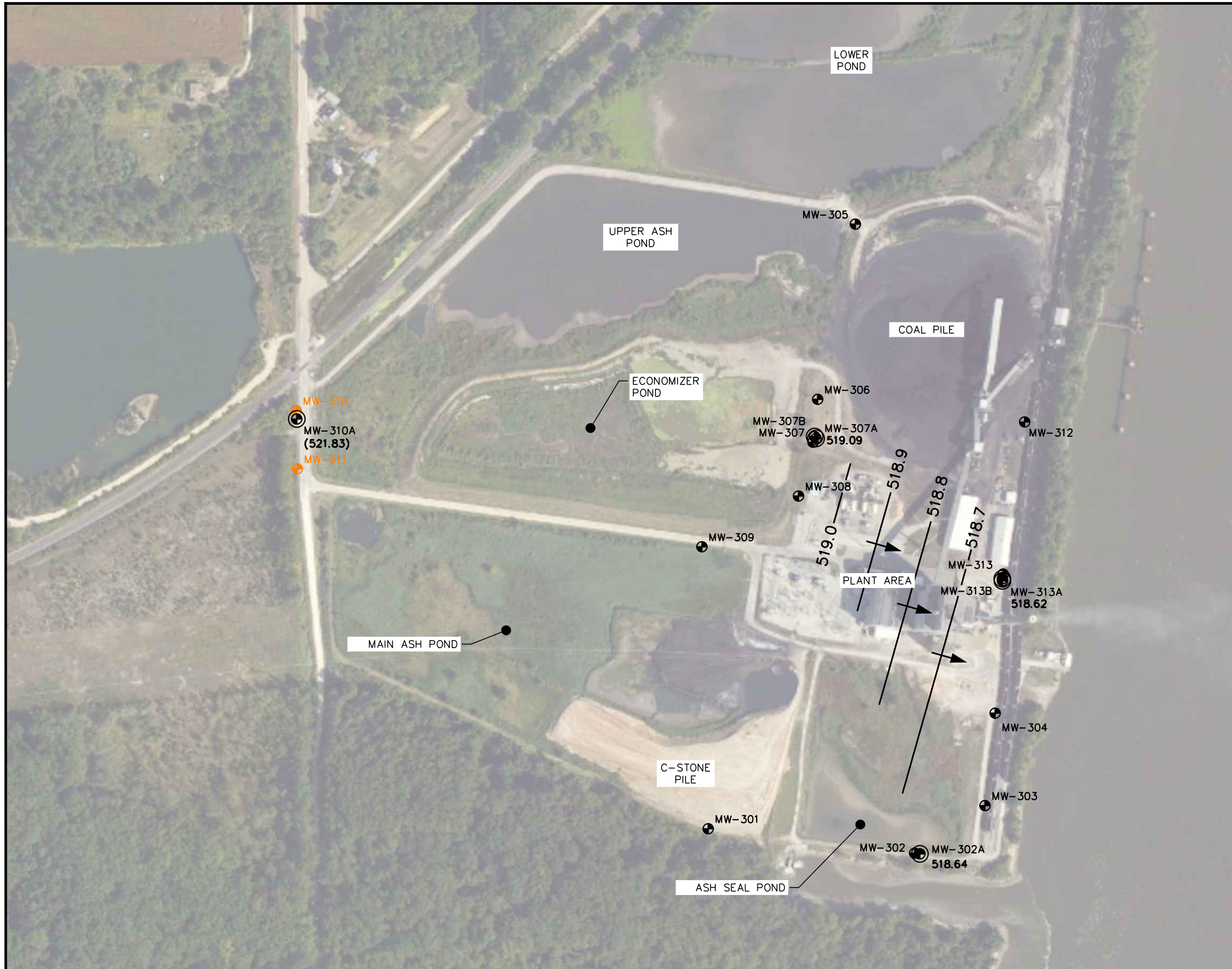
| LEGEND | |
|---------------|---------------------------------------------------------------------|
| | MONITORING WELL |
| | DEEP PIEZOMETER |
| | CCR BACKGROUND MONITORING WELL |
| 522.11 | WATER LEVEL MEASURED OCTOBER 11-14, 2021 |
| | POTENTIOMETRIC SURFACE ELEVATION CONTOUR (DASHED WHERE INFERRED) |
| | APPROXIMATE FLOW DIRECTION |

NOTES:

1. MONITORING WELLS MW-303 THROUGH MW-308 WERE INSTALLED BY CASCADE DRILLING, LLP. UNDER THE SUPERVISION OF SCS ENGINEERS ON DECEMBER 15-17, 2015.
2. MONITORING WELLS MW301, MW302, AND MW309-MW311 WERE INSTALLED BY DIRECT PUSH ANALYTICAL SERVICES CORP. UNDER THE SUPERVISION OF SCS ENGINEERS FROM FEBRUARY 29, 2016 TO MARCH 1, 2016.
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4. MONITORING WELLS MW-312 AND MW-313 WERE INSTALLED BY ROBERTS ENVIRONMENTAL DRILLING IN MAY 2019.
5. PIEZOMETERS MW-302A, MW-307A, MW-310A, AND MW-313A WERE INSTALLED BY ROBERTS ENVIRONMENTAL DRILLING IN JUNE-JULY 2020.
6. PIEZOMETERS MW-307B AND MW-313B WERE INSTALLED BY CASCADE DRILLING IN MAY 2021.
7. GROUNDWATER ELEVATION ESTIMATED BASED ON MONITORING WELLS SCREENED BELOW THE POTENTIOMETRIC SURFACE IN THE SAND UNIT.
8. BACKGROUND MONITORING WELLS FOR THE BURLINGTON GENERATING STATION ARE: MW-310 AND MW-311.

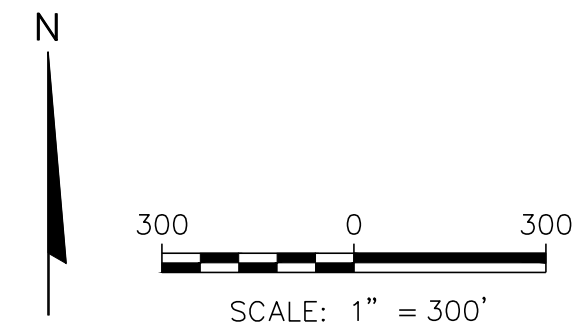


| | | | | | | | | |
|-------------------------|---------------------------|----------------------------------------------------------------------|----------|---------------------------------------------------------------------|------|---------------------------------------------------------------------|-----------------------------------------------------------|-------------|
| PROJECT NO. 25221066.00 | DRAWN BY: KP | 2830 DAIRY DRIVE MADISON, WI 53718-6751 PHONE: (608) 224-2830 | CLIENT | ALLIANT ENERGY 4902 N. BILTMORE LANE, #1000 MADISON, WI 53718 | SITE | ALLIANT ENERGY BURLINGTON GENERATING STATION BURLINGTON, IOWA | SHALLOW POTENTIOMETRIC SURFACE MAP OCTOBER 11-14, 2021 | FIGURE 5 |
| DRAWN: 10/28/2021 | CHECKED BY: NDK | | ENGINEER | | | | | |
| REVISED: 01/07/2022 | APPROVED BY: TK 1/7/20022 | | | | | | | |




| LEGEND | |
|-----------------|-------------------------------------------------------------------------|
| | MONITORING WELL |
| | DEEP PIEZOMETER |
| | CCR BACKGROUND MONITORING WELL |
| 522.11 | WATER LEVEL MEASURED OCTOBER 11-14, 2021 |
| (521.83) | WATER LEVEL MEASURED OCTOBER 11-14, 2021, NOT USED FOR CONTOURING |
| | POTENTIOMETRIC SURFACE ELEVATION CONTOUR (DASHED WHERE INFERRED) |
| | APPROXIMATE FLOW DIRECTION |

- NOTES:
- MONITORING WELLS MW-303 THROUGH MW-308 WERE INSTALLED BY CASCADE DRILLING, LLP. UNDER THE SUPERVISION OF SCS ENGINEERS ON DECEMBER 15-17, 2015.
 - MONITORING WELLS MW301, MW302, AND MW309-MW311 WERE INSTALLED BY DIRECT PUSH ANALYTICAL SERVICES CORP. UNDER THE SUPERVISION OF SCS ENGINEERS FROM FEBRUARY 29, 2016 TO MARCH 1, 2016.
 - MONITORING WELLS MW-301 THROUGH MW-311 WERE SURVEYED BY FRENCH-RENEKER ASSOCIATES OF FRANKLIN, IA ON MARCH 16, 2016.
 - MONITORING WELLS MW-312 AND MW-313 WERE INSTALLED BY ROBERTS ENVIRONMENTAL DRILLING IN MAY 2019.
 - PIEZOMETERS MW-302A, MW-307A, MW-310A, AND MW-313A WERE INSTALLED BY ROBERTS ENVIRONMENTAL DRILLING IN JUNE-JULY 2020.
 - PIEZOMETERS MW-307B AND MW-313B WERE INSTALLED BY CASCADE DRILLING IN MAY 2021.
 - GROUNDWATER ELEVATION ESTIMATED BASED ON MONITORING WELLS SCREENED BELOW THE POTENTIOMETRIC SURFACE IN THE SAND UNIT.
 - BACKGROUND MONITORING WELLS FOR THE BURLINGTON GENERATING STATION ARE: MW-310 AND MW-311.
 - MW-310A IS SCREENED WITHIN MUDSTONE BEDROCK. THE GROUNDWATER ELEVATION AT THIS WELL IS NOT USED FOR POTENTIOMETRIC SURFACE CONTOURING.



| | | | | | |
|-------------------------|---------------------------|------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------|
| PROJECT NO. 25221066.00 | DRAWN BY: KP | SCS ENGINEERS 2830 DAIRY DRIVE MADISON, WI 53718-6751 PHONE: (608) 224-2830 | CLIENT ALLIANT ENERGY 4902 N. BILTMORE LANE, #1000 MADISON, WI 53718 | SITE ALLIANT ENERGY BURLINGTON GENERATING STATION BURLINGTON, IOWA | FIGURE 6 |
| DRAWN: 10/28/2021 | CHECKED BY: MDB | | ENGINEER TK 1/7/20022 | | DEEP POTENTIOMETRIC SURFACE MAP OCTOBER 11-14, 2021 |
| REVISED: 01/24/2022 | APPROVED BY: TK 1/7/20022 | | | | |



Appendix A
Regional Hydrogeologic Information

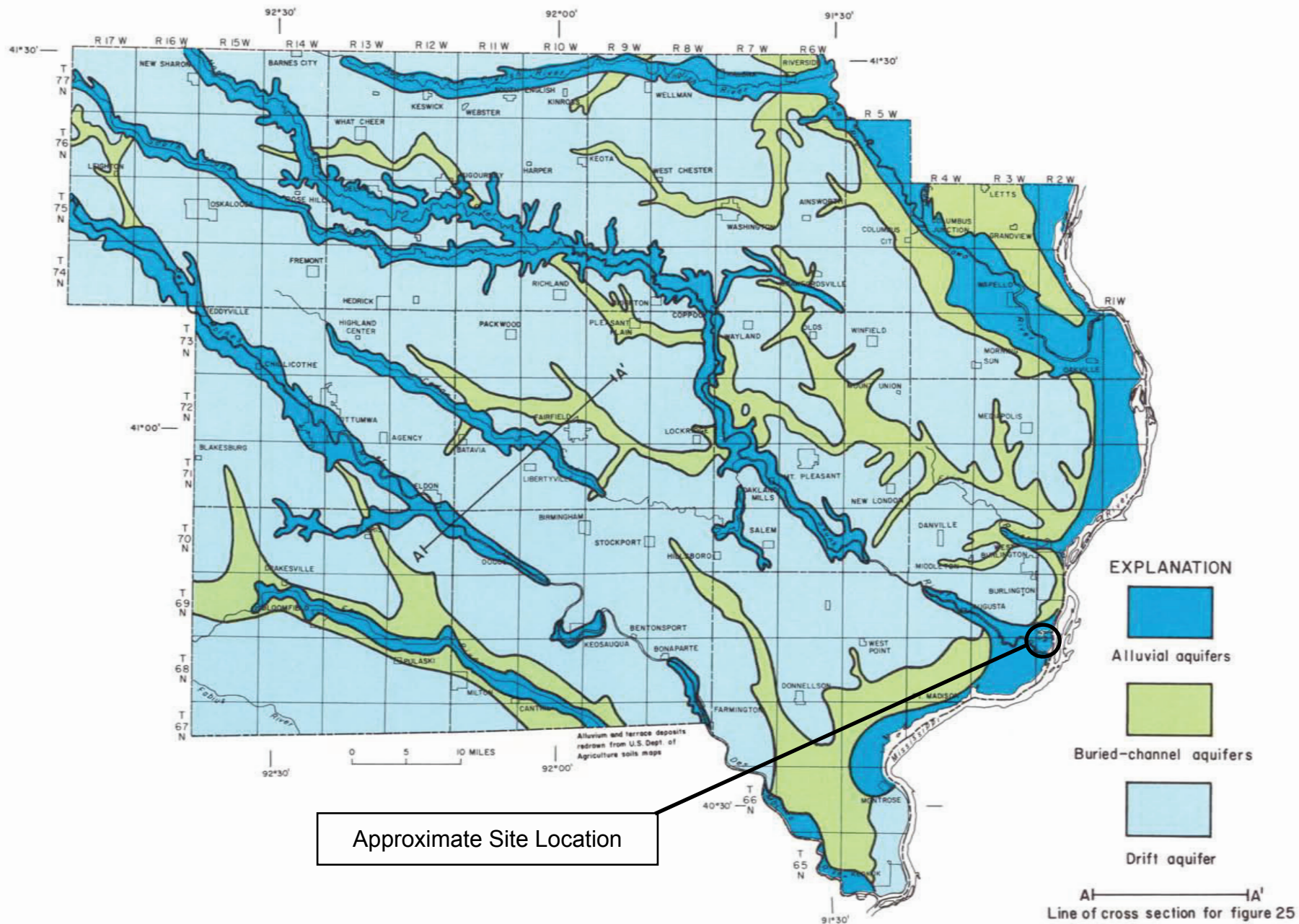
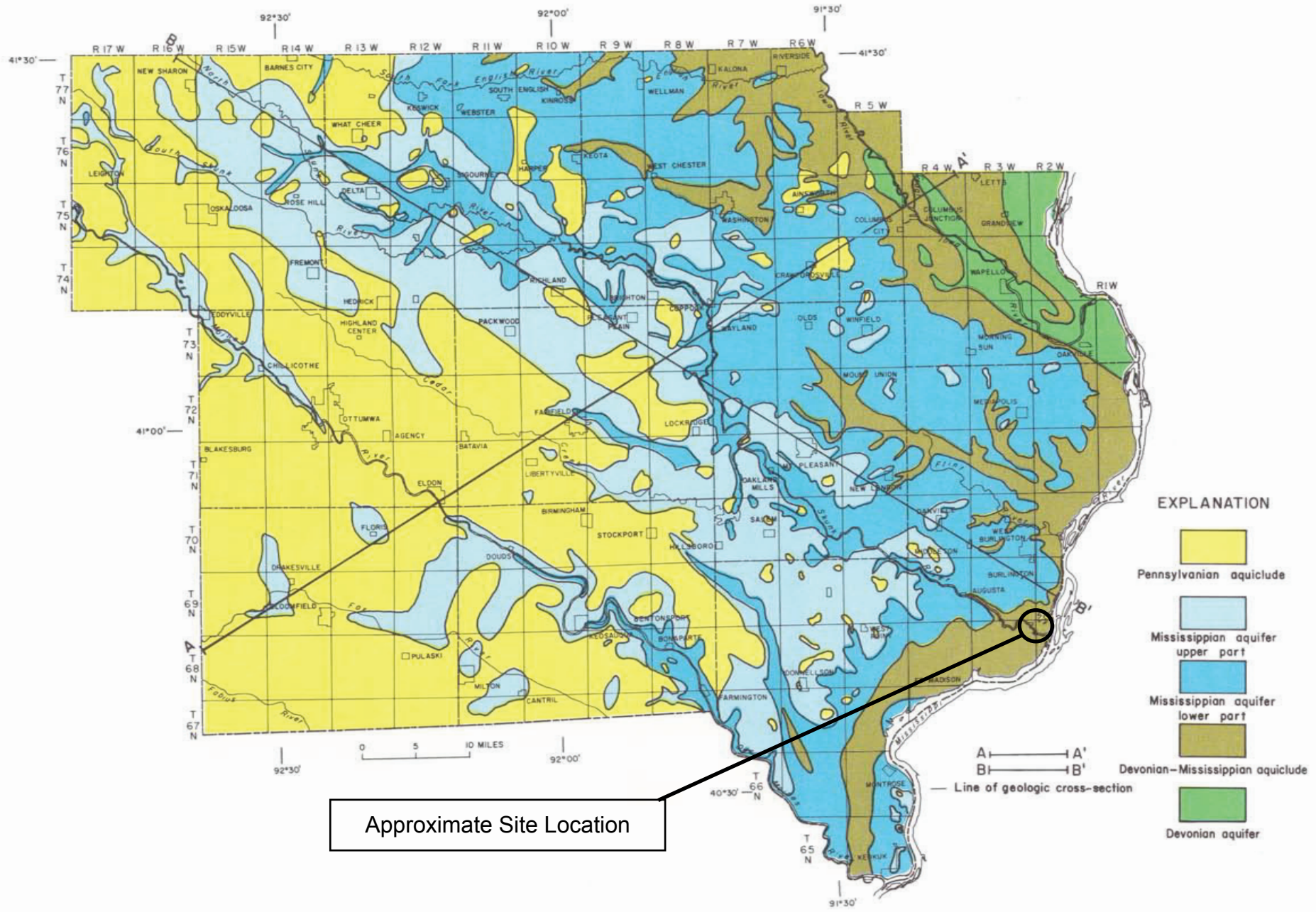


Figure 24.—Areal distribution of surficial aquifers

Source: Coble, R.W., The Water Resources of Southeast Iowa, Iowa Geological Survey Water Atlas Number 4, 1971.



Approximate Site Location

Figure 27.—Bedrock hydrogeologic map

Source: Coble, R.W., The Water Resources of Southeast Iowa, Iowa Geological Survey Water Atlas Number 4, 1971.

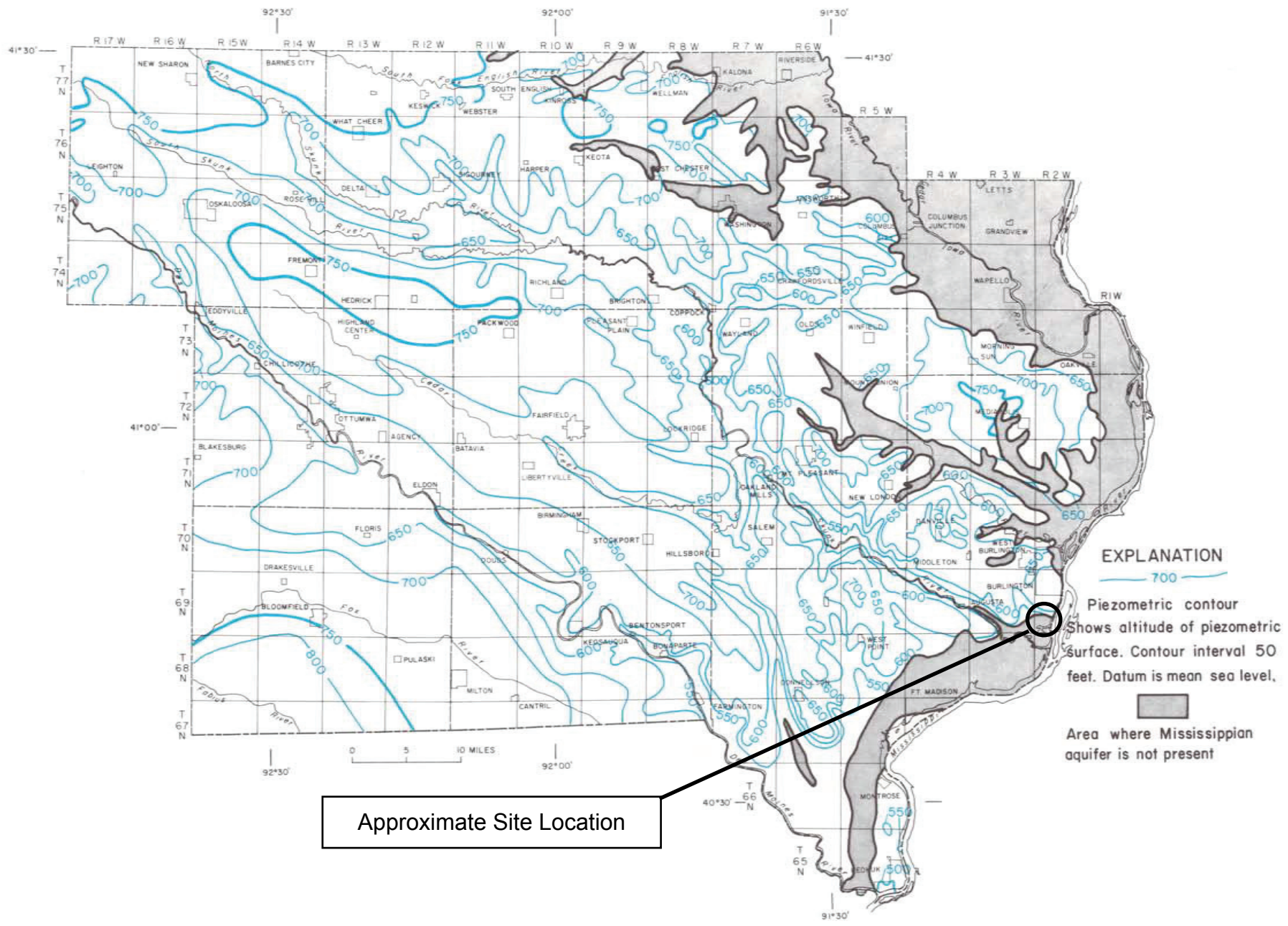



Figure 41.—Altitude of the water levels in wells tapping the Mississippian aquifer

Source: Coble, R.W., The Water Resources of Southeast Iowa, Iowa Geological Survey Water Atlas Number 4, 1971.



Appendix B
Boring Logs and Well Construction Documentation

Route To: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

| | | | | | |
|---------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------|--|
| Facility/Project Name IPL- Burlington Generating Station SCS#: 25215135.80 | | License/Permit/Monitoring Number | | Boring Number MW-301 | |
| Boring Drilled By: Name of crew chief (first, last) and Firm Kevin Collins Direct Push Analytical | | Date Drilling Started 2/29/2016 | | Date Drilling Completed 2/29/2016 | |
| Drilling Method Direct Push 4-1/2/HSA | | Unique Well No. MW-301 | | Final Static Water Level Feet | |
| DNR Well ID No. | | Common Well Name MW-301 | | Surface Elevation 536.0 Feet | |
| Borehole Diameter 8.5 in | | Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> | | Local Grid Location | |
| State Plane 278,382 N, 2,300,041 E S/C/N | | Lat _____ ° _____ ' _____ " | | <input type="checkbox"/> N <input type="checkbox"/> E | |
| SW 1/4 of SW 1/4 of Section 29, T 69 N, R 2 W | | Long _____ ° _____ ' _____ " | | Feet <input type="checkbox"/> S Feet <input type="checkbox"/> W | |
| Facility ID | | County Des Moines | | Civil Town/City/ or Village Burlington | |

| Sample Number and Type | Length Att. & Recovered (in) | Blow Counts | Depth In Feet | Soil/Rock Description And Geologic Origin For Each Major Unit | USCS | Graphic Log | Well Diagram | PID/FID | Soil Properties | | | | | | RQD/ Comments | | |
|------------------------------|---------------------------------|----------------|---------------|-----------------------------------------------------------------------------|------|-------------------|-----------------|---------|-------------------------|---------------------|-----------------|---------------------|-------|--|------------------|--|--|
| | | | | | | | | | Standard Penetration | Moisture Content | Liquid Limit | Plasticity Index | P 200 | | | | |
| | | | 1 | FILL, boring location was cleared to 10' bgs by hydrovac, then back filled. | FILL | [Hatched Pattern] | [Well Diagram] | | | | | | | | | | |
| | | | 2 | | | | | | | | | | | | | | |
| | | | 3 | | | | | | | | | | | | | | |
| | | | 4 | | | | | | | | | | | | | | |
| | | | 5 | | | | | | | | | | | | | | |
| | | | 6 | | | | | | | | | | | | | | |
| | | | 7 | | | | | | | | | | | | | | |
| | | | 8 | | | | | | | | | | | | | | |
| | | | 9 | | | | | | | | | | | | | | |
| | | | 10 | | | | | | | | | | | | | | |
| S1 | 16 | | 11 | LEAN CLAY WITH SAND, very dark gray (10YR 3/1). | CL | | | | | | | | | | | | |
| S2 | 45 | | 14 | | | | | | | | | | | | | | |
| | | | 15 | | | | | | | | | | | | | | |

I hereby certify that the information on this form is true and correct to the best of my knowledge.

| | | |
|---------------------------------|-------------------------------------------------------------|---------------------------|
| Signature <i>[Signature]</i> | Firm SCS Engineers 2830 Dairy Drive Madison, WI 53718 | Tel: 608-224-2830 Fax: |
|---------------------------------|-------------------------------------------------------------|---------------------------|


Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

| | | | | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|----------------------------------|------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Facility/Project Name IPL- Burlington Generating Station SCS#: 25215135.80 | | License/Permit/Monitoring Number | | Boring Number MW-302 | |
| Boring Drilled By: Name of crew chief (first, last) and Firm Kevin Collins Direct Push Analytical | | | Date Drilling Started 2/29/2016 | Date Drilling Completed 2/29/2016 | Drilling Method Direct Push 4-1/2/HSA |
| Unique Well No. | DNR Well ID No. | Common Well Name MW-302 | Final Static Water Level Feet | Surface Elevation 533.2 Feet | Borehole Diameter 8.5 in |
| Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane 278,310 N, 2,300,647 E S/C/N SE 1/4 of SW 1/4 of Section 29, T 69 N, R 2 W | | | Lat _____ Long _____ | | Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W |

| | | | | | |
|-------------|----------------------|-------------------------------------------|--|--|--|
| Facility ID | County Des Moines | Civil Town/City/ or Village Burlington | | | |
|-------------|----------------------|-------------------------------------------|--|--|--|

| Sample | | Blow Counts | Depth In Feet | Soil/Rock Description And Geologic Origin For Each Major Unit | U S C S | Graphic Log | Well Diagram | PID/FID | Soil Properties | | | | | | RQD/ Comments |
|--------------------|---------------------------------|-------------|---------------|-----------------------------------------------------------------------------|---------|----------------|-----------------|---------|-------------------------|---------------------|-----------------|---------------------|-------|--|------------------|
| Number and Type | Length Att. & Recovered (in) | | | | | | | | Standard Penetration | Moisture Content | Liquid Limit | Plasticity Index | P 200 | | |
| | | | 1 | FILL, boring location was cleared to 10' bgs by hydrovac, then back filled. | | | | | | | | | | | |
| | | | 2 | | | | | | | | | | | | |
| | | | 3 | | | | | | | | | | | | |
| | | | 4 | | | | | | | | | | | | |
| | | | 5 | | FILL | | | | | | | | | | |
| | | | 6 | | | | | | | | | | | | |
| | | | 7 | | | | | | | | | | | | |
| | | | 8 | | | | | | | | | | | | |
| | | | 9 | | | | | | | | | | | | |
| | | | 10 | | | | | | | | | | | | |
| S1 | 15 | | 11 | POORLY GRADED SAND WITH SILT, medium grained, very dark gray (10YR 3/1). | SP-SM | | | | | | | W | | | |
| | | | 12 | | | | | | | | | | | | |
| | | | 13 | POORLY GRADED SAND, medium grained, very dark gray (10YR 3/1). | SP | | | | | | | W | | | |
| S2 | 15 | | 14 | | | | | | | | | | | | |
| | | | 15 | | | | | | | | | | | | |

I hereby certify that the information on this form is true and correct to the best of my knowledge.


| | | |
|--------------------------------------------------------------------------------------------------|-------------------------------------------------------------|---------------------------|
| Signature  | Firm SCS Engineers 2830 Dairy Drive Madison, WI 53718 | Tel: 608-224-2830 Fax: |
|--------------------------------------------------------------------------------------------------|-------------------------------------------------------------|---------------------------|

Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

| | | | | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------|--|
| Facility/Project Name Burlington Generating Station SCS#: 25220055.00 | | License/Permit/Monitoring Number | | Boring Number MW-302A | |
| Boring Drilled By: Name of crew chief (first, last) and Firm Jeff Crank Roberts Environmental Services | | Date Drilling Started 6/30/2020 | | Date Drilling Completed 7/1/2020 | |
| WI Unique Well No. | | DNR Well ID No. | | Common Well Name | |
| Final Static Water Level 11.92 Feet | | Surface Elevation 533.51 Feet MSL | | Borehole Diameter 8.0 in. | |
| Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane 278,310 N, 2,300,647 E S/C/N | | Lat _____ ° _____ ' _____ " | | Local Grid Location Feet <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W | |
| SE 1/4 of SW 1/4 of Section 29, T 69 N, R 2 W | | Long _____ ° _____ ' _____ " | | | |
| Facility ID | | County Des Moines | | County Code | |
| | | | | Civil Town/City/ or Village Burlington | |

| Sample Number and Type | Length Att. & Recovered (in) | Blow Counts | Depth In Feet | Soil/Rock Description And Geologic Origin For Each Major Unit | USCS | Graphic Log | Well Diagram | PID/FID | Soil Properties | | | | | RQD/ Comments | |
|------------------------|------------------------------|-------------|---------------|---------------------------------------------------------------|------|-------------|--------------|---------|----------------------|------------------|--------------|------------------|-------|---------------|--|
| | | | | | | | | | Standard Penetration | Moisture Content | Liquid Limit | Plasticity Index | P 200 | | |
| | 0 | | 0 | Blind drilled to 28' bgs | | | | | | | | | | | |
| | | | 1 | | | | | | | | | | | | |
| | | | 2 | See boring logs for MW-302 for log information from 0-25'bgs. | | | | | | | | | | | |
| | | | 3 | | | | | | | | | | | | |
| | | | 4 | | | | | | | | | | | | |
| | | | 5 | | | | | | | | | | | | |
| | | | 6 | | | | | | | | | | | | |
| | | | 7 | | | | | | | | | | | | |
| | | | 8 | | | | | | | | | | | | |
| | | | 9 | | | | | | | | | | | | |
| | | | 10 | | | | | | | | | | | | |
| | | | 11 | | | | | | | | | | | | |
| | | | 12 | | | | | | | | | | | | |
| | | | 13 | | | | | | | | | | | | |
| | | | 14 | | | | | | | | | | | | |
| | | | 15 | | | | | | | | | | | | |

I hereby certify that the information on this form is true and correct to the best of my knowledge.

| | | |
|--------------------------------------------------------------------------------------------------|------------------------------|--------------|
| Signature  | Firm SCS Engineers | Tel: Fax: |
|--------------------------------------------------------------------------------------------------|------------------------------|--------------|

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Boring Number **MW-302A** Use only as an attachment to Form 4400-122. Page **2** of **3**

| Sample | | Blow Counts | Depth In Feet | Soil/Rock Description And Geologic Origin For Each Major Unit | USCS | Graphic Log | Well Diagram | PID/FID | Soil Properties | | | | | RQD/ Comments |
|--------------------|---------------------------------|-------------|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|------|--------------------|-----------------|---------|-------------------------|---------------------|-----------------|---------------------|-------|------------------|
| Number and Type | Length Att. & Recovered (in) | | | | | | | | Standard Penetration | Moisture Content | Liquid Limit | Plasticity Index | P 200 | |
| S1 | 14 | 34 78 | 16 | POORLY GRADED SAND, mostly fine to medium grain, trace coarse grain, gray to dark gray (5y, 4/1), with clay lense at top of spoon. olive gray, dense. | SP | [Stippled pattern] | [Redacted] | | | | | | | |
| | | | 17 | | | | | | | | | | | |
| | | | 18 | | | | | | | | | | | |
| S2 | 3 | 02 45 | 19 | Same, fine grain, trace coarse grain with large piece of limestone. | SP | [Stippled pattern] | [Redacted] | | | | | | | |
| | | | 20 | | | | | | | | | | | |
| S3 | 0 | 68 78 | 21 | No returns | SP | [Stippled pattern] | [Redacted] | | | | | | | |
| | | | 22 | | | | | | | | | | | |
| | | | 23 | | | | | | | | | | | |
| | | | 24 | | | | | | | | | | | |
| | | | 25 | | | | | | | | | | | |
| | | | 26 | | | | | | | | | | | |
| | | | 27 | | | | | | | | | | | |
| | | | 28 | | | | | | | | | | | |
| | | | 29 | | | | | | | | | | | |
| | | | 30 | | | | | | | | | | | |
| | | | 31 | | | | | | | | | | | |
| | | | 32 | | | | | | | | | | | |
| | | | 33 | | | | | | | | | | | |
| | | | 34 | | | | | | | | | | | |
| | | | 35 | | | | | | | | | | | |
| | | | 36 | | | | | | | | | | | |
| | | | 37 | | | | | | | | | | | |
| | | | 38 | | | | | | | | | | | |
| | | | 39 | | | | | | | | | | | |
| | | | 40 | | | | | | | | | | | |

Roberts began using water to keep sand from backing up into augers. Took two jar samples from 25-27' bgs.

Boring Number **MW-302A** Use only as an attachment to Form 4400-122. Page **3** of **3**

| Sample | | Blow Counts | Depth In Feet | Soil/Rock Description And Geologic Origin For Each Major Unit | USCS | Graphic Log | Well Diagram | PID/FID | Soil Properties | | | | | RQD/ Comments | | |
|--------------------|---------------------------------|---------------|---------------|------------------------------------------------------------------------------------------------------------------------|------|----------------|-----------------|---------|-------------------------|---------------------|-----------------|---------------------|-------|------------------|--|--|
| Number and Type | Length Att. & Recovered (in) | | | | | | | | Standard Penetration | Moisture Content | Liquid Limit | Plasticity Index | P 200 | | | |
| S4 | 6 | 5 7 8 13 | 41 | POORLY GRADED SAND, fine to coarse grain, with gravel, gray to dark gray (5y, 3/1), with very trace silt (same color). | | | | | | | | | | | | |
| | | | 42 | | | | | | | | | | | | | |
| | | | 43 | | | | | | | | | | | | | |
| | | | 44 | | | | | | | | | | | | | |
| S5 | 0 | 4 12 16 14 | 45 | No returns | | | | | | | | | | | | |
| | | | 46 | | | | | | | | | | | | | |
| | | | 47 | | | | | | | | | | | | | |
| | | | 48 | | | | | | | | | | | | | |
| S6 | 15 | 3 8 12 14 | 49 | | | | | | | | | | | | | |
| | | | 50 | POORLY GRADED SAND, fine to coarse grain, trace gravel, gray to darkish gray brown, 5y, 4/1). | SP | | | | | | | | | | | |
| | | | 51 | | | | | | | | | | | | | |
| | | | 52 | | | | | | | | | | | | | |
| | | | 53 | | | | | | | | | | | | | |
| | | | 54 | | | | | | | | | | | | | |
| S7 | 14 | 3 6 12 18 | 55 | Same | | | | | | | | | | | | |
| | | | 56 | | | | | | | | | | | | | |
| | | | 57 | | | | | | | | | | | | | |
| | | | 58 | | | | | | | | | | | | | |
| | | | 59 | | | | | | | | | | | | | |
| | | | 60 | | | | | | | | | | | | | |
| S8 | 24 | 6 9 13 25 | 61 | End of Boring at 61' below ground surface. Well placed at 60' bgs. | | | | | | | | | | | | |

Roberts changed spoon catch.

Took two jar samples from 55-57' bgs.

Sampled to 62' bgs and augered to 61' bgs.

SCS ENGINEERS

Environmental Consultants and Contractors

SOIL BORING LOG INFORMATION

Route To: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

| | | | | | |
|----------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------|--|
| Facility/Project Name IPL- Burlington Generating Station SCS#: 25215135.80 | | License/Permit/Monitoring Number | | Boring Number MW-303 | |
| Boring Drilled By: Name of crew chief (first, last) and Firm Mike Mueller Cascade Drilling | | Date Drilling Started 12/15/2015 | | Date Drilling Completed 12/15/2015 | |
| Drilling Method 4-1/2 hollow stem auger | | Unique Well No. | | DNR Well ID No. | |
| Common Well Name MW-303 | | Final Static Water Level Feet | | Surface Elevation 531.0 Feet | |
| Borehole Diameter 8.5 in | | Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> | | Local Grid Location | |
| State Plane 278,450 N, 2,300,854 E S/C/N | | Lat ° ' " | | <input type="checkbox"/> N <input type="checkbox"/> E | |
| SE 1/4 of SW 1/4 of Section 29, T 69 N, R 2 W | | Long ° ' " | | Feet <input type="checkbox"/> S Feet <input type="checkbox"/> W | |
| Facility ID | | County Des Moines | | Civil Town/City/ or Village Burlington | |

| Sample Number and Type | Length Att. & Recovered (in) | Blow Counts | Depth In Feet | Soil/Rock Description And Geologic Origin For Each Major Unit | U S C S | Graphic Log | Well Diagram | PID/FID | Soil Properties | | | | | RQD/ Comments | |
|------------------------|------------------------------|-------------|---------------|-----------------------------------------------------------------------------|---------|-------------|--------------|---------|----------------------|------------------|--------------|------------------|-------|---------------|--------------------------|
| | | | | | | | | | Standard Penetration | Moisture Content | Liquid Limit | Plasticity Index | P 200 | | |
| | | | 1-9 | FILL, boring location was cleared to 10' bgs by hydrovac, then back filled. | FILL | | | | | | | | | | |
| S1 | 0 | 46 88 | 10-11 | LEAN CLAY, dark gray (10YR 3/1). | CL | | | | | | | | | | Rock in the end of shoe. |
| S2 | 14 | 24 45 | 13-14 | | | | | | | | | | | | |

I hereby certify that the information on this form is true and correct to the best of my knowledge.

| | | |
|---------------|--------------------------------------------------------------------|---------------------------|
| Signature | Firm SCS Engineers 2830 Dairy Drive Madison, WI 53718 | Tel: 608-224-2830 Fax: |
|---------------|--------------------------------------------------------------------|---------------------------|

Boring Number MW-303

Page 2 of 2

| Sample | | Blow Counts | Depth In Feet | Soil/Rock Description And Geologic Origin For Each Major Unit | USCS | Graphic Log | Well Diagram | PID/FID | Soil Properties | | | | | RQD/ Comments |
|--------------------|---------------------------------|-------------|---------------|-----------------------------------------------------------------------------|------|----------------|-----------------|---------|-------------------------|---------------------|-----------------|---------------------|-------|------------------|
| Number and Type | Length Att. & Recovered (in) | | | | | | | | Standard Penetration | Moisture Content | Liquid Limit | Plasticity Index | P 200 | |
| S3 | 15 | 22 46 | 16 | LEAN CLAY, dark gray (10YR 3/1). (continued) | | | | | | | | | | |
| | | | 17 | | | | | | | | | | | |
| S4 | 3 | 12 38 | 18 | | CL | | | | | | | | | |
| | | | 19 | | | | | | | | | | | |
| S5 | 10 | 48 99 | 20 | POORLY GRADED SAND, coarse grained, very dark gray (2.5Y 3/1), some gravel. | | | | | | | | | | |
| | | | 21 | | SP | | | | | | | | | |
| | | | 22 | | | | | | | | | | | |
| S6 | 14 | 12 89 | 23 | POORLY GRADED SAND, very dark gray (2.5Y 3/1), medium grained. | | | | | | | | | | |
| | | | 24 | | | | | | | | | | | |
| | | | 25 | | SP | | | | | | | | | |
| S7 | 8 | 46 810 | 26 | same as above except, coarse grained. | | | | | | | | | | |
| | | | 27 | | | | | | | | | | | |
| | | | | End of Boring at 27.50 ft bgs. | | | | | | | | | | |


Rock in the end of shoe.

Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

| | | | | | |
|------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------|--|-------------------------------------------------------|--|
| Facility/Project Name IPL- Burlington Generating Station SCS#: 25215135.80 | | License/Permit/Monitoring Number | | Boring Number MW-304 | |
| Boring Drilled By: Name of crew chief (first, last) and Firm Mike Mueller Cascade Drilling | | Date Drilling Started 12/15/2015 | | Date Drilling Completed 12/15/2015 | |
| Drilling Method 4-1/2 hollow stem auger | | Unique Well No. MW-304 | | DNR Well ID No. | |
| Final Static Water Level Feet | | Surface Elevation 532.2 Feet | | Borehole Diameter 8.5 in | |
| Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> | | State Plane 278,721 N, 2,300,883 E S/C/N | | Local Grid Location | |
| SE 1/4 of SW 1/4 of Section 29, T 69 N, R 2 W | | Lat _____ ' _____ " | | <input type="checkbox"/> N <input type="checkbox"/> E | |
| Long _____ ' _____ " | | Feet <input type="checkbox"/> S | | Feet <input type="checkbox"/> W | |
| Facility ID | | County Des Moines | | Civil Town/City/ or Village Burlington | |

| Sample Number and Type | Length Att. & Recovered (in) | Blow Counts | Depth In Feet | Soil/Rock Description And Geologic Origin For Each Major Unit | USCS | Graphic Log | Well Diagram | PID/FID | Soil Properties | | | | | | RQD/ Comments |
|------------------------------|---------------------------------|--------------|---------------|-----------------------------------------------------------------------------|------|----------------|-----------------|---------|-------------------------|---------------------|-----------------|---------------------|-------|--|------------------|
| | | | | | | | | | Standard Penetration | Moisture Content | Liquid Limit | Plasticity Index | P 200 | | |
| | | | 1 | FILL, boring location was cleared to 10' bgs by hydrovac, then back filled. | | | | | | | | | | | |
| | | | 2 | | | | | | | | | | | | |
| | | | 3 | | | | | | | | | | | | |
| | | | 4 | | | | | | | | | | | | |
| | | | 5 | | FILL | | | | | | | | | | |
| | | | 6 | | | | | | | | | | | | |
| | | | 7 | | | | | | | | | | | | |
| | | | 8 | | | | | | | | | | | | |
| | | | 9 | | | | | | | | | | | | |
| | | | 10 | FAT CLAY, dark gray (10YR 3/1). | | | | | | | | | | | |
| S1 | 12 | 3 4 11 14 | 11 | | | | | | | | | | | | |
| | | | 12 | | | | | | | | | | | | |
| | | | 13 | | | | | | | | | | | | |
| S2 | | 2 3 5 5 | 14 | | CH | | | | | | | | | | |
| | | | 15 | | | | | | | | | | | | |

I hereby certify that the information on this form is true and correct to the best of my knowledge.

| | | |
|--------------------------------------------------------------------------------------------------|-------------------------------------------------------------|---------------------------|
| Signature  | Firm SCS Engineers 2830 Dairy Drive Madison, WI 53718 | Tel: 608-224-2830 Fax: |
|--------------------------------------------------------------------------------------------------|-------------------------------------------------------------|---------------------------|

Boring Number MW-304



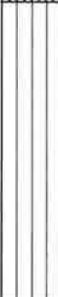



Page 2 of 2

| Sample | | Blow Counts | Depth In Feet | Soil/Rock Description And Geologic Origin For Each Major Unit | USCS | Graphic Log | Well Diagram | PID/FID | Soil Properties | | | | | RQD/ Comments |
|--------------------|---------------------------------|-------------|---------------|---------------------------------------------------------------------|------|----------------|-----------------|---------|-------------------------|---------------------|-----------------|---------------------|-------|------------------|
| Number and Type | Length Att. & Recovered (in) | | | | | | | | Standard Penetration | Moisture Content | Liquid Limit | Plasticity Index | P 200 | |
| S3 | 14 | 1 1 | 16 | SANDY SILT, very dark gray (2.5Y 3/1), fine grained. | ML | | | | | | | | | |
| | | 2 4 | 17 | | | | | | | | | | | |
| S4 | 14 | 1 2 | 18 | POORLY GRADED SAND, very dark gray (2.5Y 3/1), medium grained. | | | | | | | | | | |
| | | 3 | 19 | | | | | | | | | | | |
| S5 | 24 | 2 3 | 21 | Same as above except, coarse grained. | SP | | | | | | | | | |
| | | 5 8 | 22 | | | | | | | | | | | |
| S6 | 12 | 3 5 | 23 | | | | | | | | | | | |
| | | 6 7 | 24 | | | | | | | | | | | |
| S7 | 12 | 3 6 | 26 | End of boring at 27 feet bgs. | | | | | | | | | | |
| | | 11 16 | 27 | | | | | | | | | | | |


Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

| | | | | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------------------------|--------------------------------------------|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Facility/Project Name IPL- Burlington Generating Station SCS#: 25215135.80 | | License/Permit/Monitoring Number | | Boring Number MW-305 | |
| Boring Drilled By: Name of crew chief (first, last) and Firm Mike Mueller Cascade Drilling | | | Date Drilling Started 12/17/2015 | Date Drilling Completed 12/17/2015 | Drilling Method 4-1/2 hollow stem auger |
| Unique Well No. | DNR Well ID No. | Common Well Name MW-305 | Final Static Water Level Feet | Surface Elevation 530.9 Feet | Borehole Diameter 8.5 in |
| Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane 280,157 N, 2,300,473 E S/C/N | | | Lat _____ " _____ " | | Local Grid Location |
| NE 1/4 of SW 1/4 of Section 29, T 69 N, R 2 W | | | Long _____ " _____ " | | Feet <input type="checkbox"/> N <input type="checkbox"/> E Feet <input type="checkbox"/> S <input type="checkbox"/> W |

| | | |
|-------------|-----------------------------|--------------------------------------------------|
| Facility ID | County Des Moines | Civil Town/City/ or Village Burlington |
|-------------|-----------------------------|--------------------------------------------------|

| Sample Number and Type | Length Att. & Recovered (in) | Blow Counts | Depth In Feet | Soil/Rock Description And Geologic Origin For Each Major Unit | USCS | Graphic Log | Well Diagram | PID/FID | Soil Properties | | | | | RQD/ Comments | |
|------------------------|------------------------------|----------------|---------------|----------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------|----------------------|------------------|--------------|------------------|-------|---------------|--|
| | | | | | | | | | Standard Penetration | Moisture Content | Liquid Limit | Plasticity Index | P 200 | | |
| | | | 1 | FILL, boring location was cleared to 5' bgs by hydrovac, then back filled. | FILL |  |  | | | | | | | | |
| S1 | 14 | 13 30 20 12 | 6 | SILT, ash, black (2.5Y 2.5/1), (fill). | ML |  |  | | | M | | | | | |
| S2 | 6 | 3 4 2 1 | 9 | | | | | | | M | | | | | |
| S3 | 5 | 4 4 6 7 | 11 | LEAN CLAY, olive (5Y 4/4). | CL |  |  | | | M | | | | | |
| S4 | 10 | 2 4 6 8 | 14 | same as above except, black (2.5Y 2.5/1). | | | | | | M | | | | | |

I hereby certify that the information on this form is true and correct to the best of my knowledge.

| | | |
|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------|
| Signature  | Firm SCS Engineers 2830 Dairy Drive Madison, WI 53718 | Tel: 608-224-2830 Fax: |
|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------|

Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

| | | | | | |
|----------------------------------------------------------------------------------------------------------|--|----------------------------------|--------------------------------------------|----------------------------------|----------------------------------------------|
| Facility/Project Name IPL- Burlington Generating Station SCS#: 25215135.80 | | License/Permit/Monitoring Number | | Boring Number MW-306 | |
| Boring Drilled By: Name of crew chief (first, last) and Firm Mike Mueller Cascade Drilling | | | Date Drilling Started 12/16/2015 | | Date Drilling Completed 12/17/2015 |
| Unique Well No. | | DNR Well ID No. | Common Well Name MW-306 | Final Static Water Level Feet | |
| | | | Surface Elevation 534.5 Feet | | Borehole Diameter 8.5 in |

| | | | | | |
|------------------------------------------------------------------------------------------------------------------------------------------|--|--|---------------------|--|-----------------------------------------------------------------|
| Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> | | | Local Grid Location | | |
| State Plane 279,643 N, 2,300,362 E S/C/N | | | Lat _____ " | | <input type="checkbox"/> N <input type="checkbox"/> E |
| NE 1/4 of SW 1/4 of Section 29 , T 69 N, R 2 W | | | Long _____ " | | Feet <input type="checkbox"/> S Feet <input type="checkbox"/> W |

| | | | | | |
|-------------|--|-----------------------------|--|--------------------------------------------------|--|
| Facility ID | | County Des Moines | | Civil Town/City/ or Village Burlington | |
|-------------|--|-----------------------------|--|--------------------------------------------------|--|

| Sample Number and Type | Length Att. & Recovered (in) | Blow Counts | Depth In Feet | Soil/Rock Description And Geologic Origin For Each Major Unit | U S C S | Graphic Log | Well Diagram | PID/FID | Soil Properties | | | | | | RQD/ Comments |
|------------------------|------------------------------|-------------|---------------|------------------------------------------------------------------------------|---------|-------------------|----------------|---------|----------------------|------------------|--------------|------------------|-------|--|---------------|
| | | | | | | | | | Standard Penetration | Moisture Content | Liquid Limit | Plasticity Index | P 200 | | |
| | | | 1-7 | FILL, boring location was cleared to 7.5' bgs by hydrovac, then back filled. | FILL | [Hatched Pattern] | [Well Diagram] | | | | | | | | |
| S1 | 22 | 68 12 12 | 8-9 | SANDY SILT, very dark gray (2.5Y 3/1), fine grained sand. | ML | [Vertical Lines] | [Well Diagram] | | | | | | | | |
| S2 | 22 | 72 22 | 11 | | | | | | | | | | | | |
| S3 | 12 | 49 19 21 | 13-14 | | | | | | | | | | | | |

I hereby certify that the information on this form is true and correct to the best of my knowledge.

| | | |
|--------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|---------------------------|
| Signature  | Firm SCS Engineers 2830 Dairy Drive Madison, WI 53718 | Tel: 608-224-2830 Fax: |
|--------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|---------------------------|

Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

| | | | | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------------------------|--------------------------------------------|--------------------------------|----------------------------------------------------------------------------------------------------------------|
| Facility/Project Name IPL- Burlington Generating Station SCS#: 25215135.80 | | License/Permit/Monitoring Number | | Boring Number MW-307 | |
| Boring Drilled By: Name of crew chief (first, last) and Firm Mike Mueller Cascade Drilling | | | Date Drilling Started 12/16/2015 | | Date Drilling Completed 12/16/2015 |
| Unique Well No. | DNR Well ID No. | Common Well Name MW-307 | Final Static Water Level Feet | | Surface Elevation 534.3 Feet |
| | | | | | Borehole Diameter 8.5 in |
| Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane 279,517 N, 2,300,349 E S/C/N | | | Lat _____ ° _____ ' _____ " | | Local Grid Location |
| NE 1/4 of SW 1/4 of Section 29, T 69 N, R 2 W | | | Long _____ ° _____ ' _____ " | | <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W |

| | | |
|-------------|-----------------------------|--------------------------------------------------|
| Facility ID | County Des Moines | Civil Town/City/ or Village Burlington |
|-------------|-----------------------------|--------------------------------------------------|

| Sample | | Blow Counts | Depth In Feet | Soil/Rock Description And Geologic Origin For Each Major Unit | U S C S | Graphic Log | Well Diagram | PID/FID | Soil Properties | | | | | RQD/ Comments |
|--------------------|---------------------------------|--------------|---------------|------------------------------------------------------------------------------|---------|----------------|-----------------|---------|-------------------------|---------------------|-----------------|---------------------|-------|------------------|
| Number and Type | Length Att. & Recovered (in) | | | | | | | | Standard Penetration | Moisture Content | Liquid Limit | Plasticity Index | P 200 | |
| | | | 1-7.5 | FILL, boring location was cleared to 7.5' bgs by hydrovac, then back filled. | FILL | | | | | | | | | |
| S1 | 0 | | 8 | SILT, ash, (fill). | FILL | | | | | | | | | |
| S2 | 16 | 13 8 6 11 | 11 | SANDY SILT, ash, fine grained, very dark gray, (2.5Y 3/1), (fill). | FILL | | | | | W | | | | |
| S3 | 15 | 4 9 6 3 | 14 | SANDY SILT, fine grained, very dark gray, (2.5Y 3/1). | ML | | | | | W | | | | |

I hereby certify that the information on this form is true and correct to the best of my knowledge.

| | | |
|------------------------------------------------------|-------------------------------------------------------------------------------|--------------|
| Signature <i>Jackie Rennebohm</i> for Kyle Kramer | Firm SCS Engineers 2830 Dairy Drive, Madison, WI 53718 608-224-2830 | Tel: Fax: |
|------------------------------------------------------|-------------------------------------------------------------------------------|--------------|


Amended on 10/6/2021

Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

| | | | | | |
|------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------|--|------------------------------------------------------------|--|
| Facility/Project Name Burlington Generating Station SCS#: 25220055.00 | | License/Permit/Monitoring Number | | Boring Number MW-307A | |
| Boring Drilled By: Name of crew chief (first, last) and Firm Jeff Crank Roberts Environmental Services | | Date Drilling Started 6/24/2020 | | Date Drilling Completed 7/1/2020 | |
| WI Unique Well No. | | DNR Well ID No. | | Common Well Name | |
| Final Static Water Level 12.09 Feet | | Surface Elevation 533.94 Feet MSL | | Borehole Diameter 8.0 in. | |
| Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> | | State Plane 279,517 N, 2,300,349 E S/C/N | | Local Grid Location | |
| NE 1/4 of SW 1/4 of Section 29, T 69 N, R 2 W | | Lat _____ ' _____ " | | Feet <input type="checkbox"/> N <input type="checkbox"/> E | |
| | | Long _____ ' _____ " | | Feet <input type="checkbox"/> S <input type="checkbox"/> W | |
| Facility ID | | County Des Moines | | County Code | |
| | | | | Civil Town/City/ or Village Burlington | |

| Sample Number and Type | Length Att. & Recovered (in) | Blow Counts | Depth In Feet | Soil/Rock Description And Geologic Origin For Each Major Unit | USCS | Graphic Log | Well Diagram | PID/FID | Soil Properties | | | | | RQD/ Comments | |
|------------------------|------------------------------|-------------|---------------|---------------------------------------------------------------|------|-------------|--------------|---------|----------------------|------------------|--------------|------------------|-------|---------------|--|
| | | | | | | | | | Standard Penetration | Moisture Content | Liquid Limit | Plasticity Index | P 200 | | |
| | 0 | | 0 | Blind drilled to 20' bgs | | | | | | | | | | | |
| | | | 1 | See boring logs for MW-307 for log information from 0-20'bgs. | | | | | | | | | | | |
| | | | 2 | | | | | | | | | | | | |
| | | | 3 | | | | | | | | | | | | |
| | | | 4 | | | | | | | | | | | | |
| | | | 5 | | | | | | | | | | | | |
| | | | 6 | | | | | | | | | | | | |
| | | | 7 | | | | | | | | | | | | |
| | | | 8 | | | | | | | | | | | | |
| | | | 9 | | | | | | | | | | | | |
| | | | 10 | | | | | | | | | | | | |
| | | | 11 | | | | | | | | | | | | |
| | | | 12 | | | | | | | | | | | | |
| | | | 13 | | | | | | | | | | | | |
| | | | 14 | | | | | | | | | | | | |
| | | | 15 | | | | | | | | | | | | |

I hereby certify that the information on this form is true and correct to the best of my knowledge.

| | | |
|--------------------------------------------------------------------------------------------------|------------------------------|--------------|
| Signature  | Firm SCS Engineers | Tel: Fax: |
|--------------------------------------------------------------------------------------------------|------------------------------|--------------|



This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Boring Number **MW-307A** Use only as an attachment to Form 4400-122. Page **2** of **3**


| Sample | | Blow Counts | Depth In Feet | Soil/Rock Description And Geologic Origin For Each Major Unit | U S C S | Graphic Log | Well Diagram | PID/FID | Soil Properties | | | | | RQD/ Comments |
|--------------------|---------------------------------|-------------|---------------|-----------------------------------------------------------------------------------------|---------|----------------|-----------------|---------|-------------------------|---------------------|-----------------|---------------------|-------|-------------------------------------------------------------------|
| Number and Type | Length Att. & Recovered (in) | | | | | | | | Standard Penetration | Moisture Content | Liquid Limit | Plasticity Index | P 200 | |
| S1 | 19 | 31 09 | 16 | SILT, dark gray (2.5y, 2.5/1), with trace sand, fine grain to coarse. | ML | | | | 0.75 | W | | | | Took two jar samples at 20-22' bgs. |
| | | | 17 | | | | | | | | | | | |
| | | | 18 | | | | | | | | | | | |
| | | | 19 | | | | | | | | | | | |
| S2 | 14 | 57 911 | 20 | POORLY GRADED SAND, fine to medium grain, trace coarse grain, dark gray (2.5y, 2.5/1). | | | | | | W | | | | Roberts began pumping water down hole to keep sand out of augers. |
| | | | 21 | | | | | | | | | | | |
| | | | 22 | | | | | | | | | | | |
| | | | 23 | | | | | | | | | | | |
| S3 | 8 | 36 77 | 24 | Same, trace silt. | | | | | | W | | | | |
| | | | 25 | | | | | | | | | | | |
| | | | 26 | | | | | | | | | | | |
| | | | 27 | | | | | | | | | | | |
| S4 | 8 | 35 78 | 28 | Same, fine to medium grain, grayish brown (2.5y, 3/1), trace pieces of gravel, no silt. | SP | | | | | W | | | | |
| | | | 29 | | | | | | | | | | | |
| | | | 30 | | | | | | | | | | | |
| | | | 31 | | | | | | | | | | | |

Route To: Watershed/Wastewater Waste Management
Remediation/Rcdevelopment Other

| | | | | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|--------------------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Facility/Project Name IPL- Burlington Generating Station SCS#: 25215135.80 | | License/Permit/Monitoring Number | | Boring Number MW-308 | |
| Boring Drilled By: Name of crew chief (first, last) and Firm Mike Mueller Cascade Drilling | | | Date Drilling Started 12/15/2015 | Date Drilling Completed 12/16/2015 | Drilling Method 4-1/2 hollow stem auger |
| Unique Well No. | DNR Well ID No. | Common Well Name MW-308 | Final Static Water Level Feet | Surface Elevation 534.9 Feet | Borehole Diameter 8.5 in |
| Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane 279,359 N, 2,300,306 E S/C/N | | | Lat <input type="checkbox"/> ° <input type="checkbox"/> ' <input type="checkbox"/> " | | Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W |
| NE 1/4 of SW 1/4 of Section 29, T 69 N, R 2 W | | | Long <input type="checkbox"/> ° <input type="checkbox"/> ' <input type="checkbox"/> " | | Feet <input type="checkbox"/> S <input type="checkbox"/> W |
| Facility ID | County Des Moines | Civil Town/City/ or Village Burlington | | | |

| Sample Number and Type | Length Att. & Recovered (in) | Blow Counts | Depth In Feet | Soil/Rock Description And Geologic Origin For Each Major Unit | U S C S | Graphic Log | Well Diagram | PID/FID | Soil Properties | | | | | | RQD/ Comments | |
|------------------------|------------------------------|----------------|---------------|----------------------------------------------------------------------------|---------|-------------------------------------------------------------------------------------|--------------|---------|----------------------|------------------|--------------|------------------|-------|--|---------------|--|
| | | | | | | | | | Standard Penetration | Moisture Content | Liquid Limit | Plasticity Index | P 200 | | | |
| | | | | FILL, boring location was cleared to 5' bgs by hydrovac, then back filled. | FILL |  | | | | | | | | | | |
| S1 | 14 | 22 12 13 15 | 5-6 | SANDY SILT, olive brown (2.5Y 4/3). | MLS |  | | | | | | | | | | |
| S2 | 18 | 2 2 4 8 | 8-9 | | | | | | | | | | | | | |
| S3 | 18 | 1 2 2 50 | 11-12 | | | | | | | | | | | | | |
| S4 | 14 | 3 15 50 | 13-14 | | | | | | | | | | | | | |

I hereby certify that the information on this form is true and correct to the best of my knowledge.

| | | |
|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------|
| Signature  | Firm SCS Engineers 2830 Dairy Drive Madison, WI 53718 | Tel: 608-224-2830 Fax: |
|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------|

SCS ENGINEERS

Environmental Consultants and Contractors

SOIL BORING LOG INFORMATION

Route To: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

| | | | | | |
|------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------|--|-----------------------------------------------------------------|--|
| Facility/Project Name IPL- Burlington Generating Station SCS#: 25215135.80 | | License/Permit/Monitoring Number | | Boring Number MW-309 | |
| Boring Drilled By: Name of crew chief (first, last) and Firm Kevin Collins Direct Push Analytical | | Date Drilling Started 3/1/2016 | | Date Drilling Completed 3/1/2016 | |
| Unique Well No. | | DNR Well ID No. | | Common Well Name MW-309 | |
| Final Static Water Level Feet | | Surface Elevation 534.1 Feet | | Borehole Diameter 8.5 in | |
| Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> | | State Plane 279,210 N, 2,300,022 E S/C/N | | Local Grid Location | |
| SW 1/4 of SW 1/4 of Section 29, T 69 N, R 2 W | | Lat _____" | | <input type="checkbox"/> N <input type="checkbox"/> E | |
| | | Long _____" | | Feet <input type="checkbox"/> S Feet <input type="checkbox"/> W | |
| Facility ID | | County Des Moines | | Civil Town/City/ or Village Burlington | |

| Sample | | Depth In Feet | Soil/Rock Description And Geologic Origin For Each Major Unit | USCS | Graphic Log | Well Diagram | PID/FID | Soil Properties | | | | | RQD/ Comments |
|--------------------|---------------------------------|---------------|--------------------------------------------------------------------------------|------|-------------------|-----------------|---------|-----------------|-------------------------|---------------------|-----------------|---------------------|------------------|
| Number and Type | Length Att. & Recovered (in) | | | | | | | Blow Counts | Standard Penetration | Moisture Content | Liquid Limit | Plasticity Index | |
| | | 1-10 | FILL, boring location was cleared to 10' bgs by hydrovac, then back filled. | FILL | [Hatched Pattern] | [Well Diagram] | | | | | | | |
| S1 | 14 | 10-11 | LEAN CLAY, olive brown (2.5Y 4/3). | | | | | | | | | | |
| S2 | 34 | 11-14 | Same as above except, gray (2.5Y 6/1). | CL | | | | | | W | | | |
| | | 14-15 | | | | | | | | W | | | |

I hereby certify that the information on this form is true and correct to the best of my knowledge.

| | | |
|---------------------------------|--------------------------------------------------------------------|---------------------------|
| Signature <i>[Signature]</i> | Firm SCS Engineers 2830 Dairy Drive Madison, WI 53718 | Tel: 608-224-2830 Fax: |
|---------------------------------|--------------------------------------------------------------------|---------------------------|

SCS ENGINEERS

Environmental Consultants and Contractors

SOIL BORING LOG INFORMATION

Route To: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

| | | | | | |
|-----------------------------------------------------------------------------------------------------------------|--|------------------------------------------|--|--------------------------------------------|--|
| Facility/Project Name IPL- Burlington Generating Station SCS#: 25215135.80 | | License/Permit/Monitoring Number | | Boring Number MW-310 | |
| Boring Drilled By: Name of crew chief (first, last) and Firm Kevin Collins Direct Push Analytical | | Date Drilling Started 3/1/2016 | | Date Drilling Completed 3/1/2016 | |
| Unique Well No. | | DNR Well ID No. | | Common Well Name MW-310 | |
| Final Static Water Level Feet | | Surface Elevation 532.2 Feet | | Borehole Diameter 8.5 in | |

| | | | | | |
|------------------------------------------------------------------------------------------------------------------------------------------|--|--------------|--|-------------------------------------------------------|--|
| Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> | | Lat _____ " | | Local Grid Location | |
| State Plane 279,610 N, 2,298,832 E S/C/N | | Long _____ " | | <input type="checkbox"/> N <input type="checkbox"/> E | |
| NE 1/4 of SE 1/4 of Section 30, T 69 N, R 2 W | | | | <input type="checkbox"/> S <input type="checkbox"/> W | |

| | | |
|-------------|-----------------------------|--------------------------------------------------|
| Facility ID | County Des Moines | Civil Town/City/ or Village Burlington |
|-------------|-----------------------------|--------------------------------------------------|


| Sample Number and Type | Length Att. & Recovered (in) | Blow Counts | Depth In Feet | Soil/Rock Description And Geologic Origin For Each Major Unit | U S C S | Graphic Log | Well Diagram | PID/FID | Soil Properties | | | | | | RQD/ Comments |
|------------------------|------------------------------|-------------|---------------|-------------------------------------------------------------------------|---------|-------------|--------------|---------|----------------------|------------------|--------------|------------------|-------|--|---------------|
| | | | | | | | | | Standard Penetration | Moisture Content | Liquid Limit | Plasticity Index | P 200 | | |
| S1 | 13 | | 1 | LEAN CLAY WITH SAND, dark olive brown (2.5Y 3/3). | | | | | | | | | | | |
| | | | 2 | | | | | | | | | | | | M |
| | | | 3 | | | | | | | | | | | | |
| S2 | 33 | | 4 | Same as above except, very dark gray (2.5Y 3/1). | CL | | | | | | | | | | |
| | | | 5 | | | | | | | | | | | | M |
| | | | 6 | | | | | | | | | | | | |
| S3 | 22 | | 7 | Trace organics. | | | | | | | | | | | |
| | | | 8 | | | | | | | | | | | | M |
| | | | 9 | | | | | | | | | | | | |
| S4 | 31 | | 10 | SILTY SAND, very dark grayish brown (2.5Y 3/2). | SM | | | | | | | | | | |
| | | | 11 | | | | | | | | | | | | |
| | | | 12 | | | | | | | | | | | | |
| | | | 13 | POORLY GRADED SAND, coarse grained, very dark grayish brown (2.5Y 3/2). | SP | | | | | | | | | | |
| | | | 14 | | | | | | | | | | | | W |
| | | | 15 | | | | | | | | | | | | |

I hereby certify that the information on this form is true and correct to the best of my knowledge.

| | | |
|-----------|-----------------------------------------------------------------|---------------------------|
| Signature | Firm SCS Engineers 2830 Dairy Drive Madison, WI 53718 | Tel: 608-224-2830 Fax: |
|-----------|-----------------------------------------------------------------|---------------------------|

Boring Number MW-310

Page 2 of 2

| Sample | | Blow Counts | Depth In Feet | Soil/Rock Description And Geologic Origin For Each Major Unit | U S C S | Graphic Log | Well Diagram | PID/FID | Soil Properties | | | | | RQD/ Comments |
|--------------------|---------------------------------|-------------|---------------|-------------------------------------------------------------------------------------|---------|----------------|-------------------------------------------------------------------------------------|---------|-------------------------|---------------------|-----------------|---------------------|-------|------------------|
| Number and Type | Length Att. & Recovered (in) | | | | | | | | Standard Penetration | Moisture Content | Liquid Limit | Plasticity Index | P 200 | |
| S5 | 35 | | 16 | POORLY GRADED SAND, coarse grained, very dark grayish brown (2.5Y 3/2). (continued) | SP | |  | | | | | | | |
| | | | 17 | | | | | | | | | | | |
| S6 | NA | | 18 | LEAN CLAY, dark gray (2.5Y 4/1). | CL | | | | | | | | | |
| | | | 19 | | | | | | | | | | | |
| | | | 20 | | | | | | | | | | | |
| | | | 21 | | | | | | | | | | | |
| S6 | NA | | 22 | POORLY GRADED SAND, very dark grayish brown (2.5Y 3/2). | SP | | | | | | | | | |
| | | | 23 | | | | | | | | | | | |
| | | | 24 | | | | | | | | | | | |
| S6 | NA | | 22 | LEAN CLAY, dark gray (2.5Y 4/1), (weathered bedrock). | CL | | | | | | | | | |
| | | | 23 | | | | | | | | | | | |
| S6 | NA | | 24 | End of Boring at 24 feet bgs. | | | | | | | | | | |
| | | | 25 | | | | | | | | | | | |

Sample stuck in discrete sampler. Refusal @24'.

Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

| | | | | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------|-------------------------------------------|--------------------------------------------------|---------------------------------------------------------------|
| Facility/Project Name Burlington Generating Station SCS#: 25220055.00 | | License/Permit/Monitoring Number | | Boring Number MW-310A | |
| Boring Drilled By: Name of crew chief (first, last) and Firm Jeff Crank Roberts Environmental Services | | | Date Drilling Started 6/25/2020 | | Date Drilling Completed 6/26/2020 |
| WI Unique Well No. | | DNR Well ID No. | Common Well Name | | Final Static Water Level 9.15 Feet |
| | | | | | Surface Elevation 532.91 Feet MSL |
| | | | | | Borehole Diameter 8.0 in. |
| Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane 279,610 N, 2,298,832 E S/C/N | | | Lat _____ " _____ " | | Local Grid Location |
| NE 1/4 of SE 1/4 of Section 30, T 69 N, R 2 W | | | Long _____ " _____ " | | Feet <input type="checkbox"/> N <input type="checkbox"/> S |
| Facility ID | | County Des Moines | County Code | Civil Town/City/ or Village Burlington | |











| Sample | | Blow Counts | Depth In Feet | Soil/Rock Description And Geologic Origin For Each Major Unit | U S C S | Graphic Log | Well Diagram | PID/FID | Soil Properties | | | | | RQD/ Comments |
|--------------------|---------------------------------|-------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|---------|----------------|-----------------|---------|-------------------------|---------------------|-----------------|---------------------|-------|------------------|
| Number and Type | Length Att. & Recovered (in) | | | | | | | | Standard Penetration | Moisture Content | Liquid Limit | Plasticity Index | P 200 | |
| | | | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 | Blind drilled to 20' below ground surface. See logs for MW-310 for log information between 0-20' bgs. | | | | | | | | | | |

I hereby certify that the information on this form is true and correct to the best of my knowledge.

| | | |
|-----------|---------------------------|--------------|
| Signature | Firm SCS Engineers | Tel: Fax: |
|-----------|---------------------------|--------------|

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Boring Number **MW-310A** Use only as an attachment to Form 4400-122. Page **3** of **3**

| Sample | | Blow Counts | Depth In Feet | Soil/Rock Description And Geologic Origin For Each Major Unit | USCS | Graphic Log | Well Diagram | PID/FID | Soil Properties | | | | | RQD/ Comments |
|--------------------|---------------------------------|-------------|---------------|---------------------------------------------------------------------------------------------------|------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------|-------------------------|---------------------|-----------------|---------------------|------------------------------------|------------------|
| Number and Type | Length Att. & Recovered (in) | | | | | | | | Standard Penetration | Moisture Content | Liquid Limit | Plasticity Index | P 200 | |
| S6 | | | 41 | MUDSTONE, mostly mudstone with some poorly graded sand. | |  |  | | | | | | | |
| | | | 42 | | | | | | | | | | | |
| S7 | | | 43 | Same, mostly mudstone with more sand and pieces of lean clay, dark gray (most likely overburden). | |  |  | | | | | | | |
| | | | 44 | | | | | | | | | | | |
| S8 | | | 45 | End of Boring at 50' below ground surface. | |  |  | | | | | | | |
| | | | 46 | | | | | | | | | | | |
| S8 | | | 47 | Set well at 49' bgs. | |  |  | | | | | | Took two jar samples from 47' bgs. | |
| | | | 48 | | | | | | | | | | | |
| S8 | | | 49 | | |  |  | | | | | | | |
| | | | 50 | | | | | | | | | | | |

Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

| | | | | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------|--|
| Facility/Project Name IPL- Burlington Generating Station SCS#: 25215135.80 | | License/Permit/Monitoring Number | | Boring Number MW-311 | |
| Boring Drilled By: Name of crew chief (first, last) and Firm Kevin Collins Direct Push Analytical | | Date Drilling Started 3/1/2016 | | Date Drilling Completed 3/1/2016 | |
| Unique Well No. | | DNR Well ID No. | | Common Well Name MW-311 | |
| Final Static Water Level Feet | | Surface Elevation 532.7 Feet | | Borehole Diameter 8.5 in | |
| Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane 279,439 N, 2,298,835 E S/C/N | | Lat _____ " _____ " | | Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W | |
| NE 1/4 of SE 1/4 of Section 30 , T 69 N, R 2 W | | Long _____ " _____ " | | Feet _____ Feet _____ | |
| Facility ID | | County Des Moines | | Civil Town/City/ or Village Burlington | |

| Sample Number and Type | Length Att. & Recovered (in) | Blow Counts | Depth In Feet | Soil/Rock Description And Geologic Origin For Each Major Unit | U S C S | Graphic Log | Well Diagram | PID/FID | Soil Properties | | | | | RQD/ Comments |
|------------------------|------------------------------|-------------|---------------|-----------------------------------------------------------------|---------|-------------|--------------|---------|----------------------|------------------|--------------|------------------|-------|---------------|
| | | | | | | | | | Standard Penetration | Moisture Content | Liquid Limit | Plasticity Index | P 200 | |
| S1 | 14 | | 1 | TOPSOIL. | TOPSOIL | | | | | | | | | |
| | | | 2 | LEAN CLAY, dark olive brown (2.5Y 3/3). | CL | | | | | M | | | | |
| S2 | 8 | | 4 | POORLY GRADED SAND, yellowish brown (10YR 5/8), coarse grained. | SP | | | | | | | | | |
| | | | 6 | | | | | | M | | | | | |
| S3 | 6 | | 8 | LEAN CLAY, very dark gray (2.5Y 3/1). | CL | | | | | | | | | |
| | | | 10 | | | | | | M | | | Rock in shoe. | | |
| S4 | 25 | | 14 | | | | | | | | | | | |

I hereby certify that the information on this form is true and correct to the best of my knowledge.

| | | |
|--------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|---------------------------|
| Signature  | Firm SCS Engineers 2830 Dairy Drive Madison, WI 53718 | Tel: 608-224-2830 Fax: |
|--------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|---------------------------|

SCS ENGINEERS

Environmental Consultants and Contractors

SOIL BORING LOG INFORMATION

Route To: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

| | | | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------|--|
| Facility/Project Name IPL - Burlington Generating Station SCS#: 25218220.00 | | License/Permit/Monitoring Number | | Boring Number MW312 | |
| Boring Drilled By: Name of crew chief (first, last) and Firm Jeff Crank Roberts Environmental Drilling | | Date Drilling Started 5/20/2019 | | Date Drilling Completed 5/20/2019 | |
| Unique Well No. | | DNR Well ID No. | | Common Well Name MW312 | |
| Final Static Water Level 531.08 Feet | | Surface Elevation 533.8 Feet | | Borehole Diameter 8.5 in | |
| Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane 279,576 N, 2,300,970 E S/C/N SE 1/4 of SW 1/4 of Section 29, T 69 N, R 2 | | Lat _____" Long _____" | | Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W | |
| Facility ID | | County Des Moines | | Civil Town/City/ or Village Burlington | |

| Sample Number and Type | Length Att. & Recovered (in) | Blow Counts | Depth In Feet | Soil/Rock Description And Geologic Origin For Each Major Unit | U S C S | Graphic Log | Well Diagram | PID/FID | Soil Properties | | | | | RQD/ Comments |
|------------------------|------------------------------|-------------|---------------|---------------------------------------------------------------|---------|-------------|--------------|---------|----------------------|------------------|--------------|------------------|-------|---------------|
| | | | | | | | | | Standard Penetration | Moisture Content | Liquid Limit | Plasticity Index | P 200 | |
| | | | 1-8 | Hydrovaced to 8' | | | | | | | | | | |
| 4 | 33 67 | | 9 | LEAN CLAY, teal/blue, (GLEY1 5/10 GY), trace coarse sand. | | | | | | | M | | | |
| 18 | 34 57 | | 11 | same as above but dark green, (GLEY1 3/10 GY), with gravel. | CL | | | | | | M | | | |
| 10 | 12 58 | | 13 | trace organic material | | | | | | | M | | | |
| | | | 14 | same as above but dark green, (10YR 2/1). | | | | | | | | | | |

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: for Zach Watson Firm: **SCS Engineers**
 2830 Dairy Drive, Madison, WI 53718 Tel: _____ Fax: _____

Boring Number **MW312**

Page **2** of **2**

| Sample | | Blow Counts | Depth In Feet | Soil/Rock Description And Geologic Origin For Each Major Unit | USCS | Graphic Log | Well Diagram | PID/FID | Soil Properties | | | | | RQD/ Comments |
|--------------------|---------------------------------|-------------|----------------------|------------------------------------------------------------------------------|------|----------------|-----------------|---------|-------------------------|---------------------|-----------------|---------------------|-------|------------------|
| Number and Type | Length Att. & Recovered (in) | | | | | | | | Standard Penetration | Moisture Content | Liquid Limit | Plasticity Index | P 200 | |
| 24 | 14 56 | | 14 16 17 18 | LEAN CLAY, teal/blue, (GLEY1 5/10 GY), trace coarse sand. <i>(continued)</i> | CL | | | | M | | | | | |
| | | | | | | | | | | | | | | |
| | 23 34 | | 19 20 | POORLY GRADED SAND, fine to coarse, (2.5YR 3/2). | | | | | M | | | | | |
| 6 | 01 23 | | 21 22 | | | | | | W | | | | | |
| 6 | 12 45 | | 23 24 | | SP | | | | W | | | | | |
| 4 | | | 25 26 | End of Boring at 26 feet. | | | | | W | | | | | |

SCS ENGINEERS

Environmental Consultants and Contractors

SOIL BORING LOG INFORMATION

Route To: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

| | | | | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------|--|
| Facility/Project Name IPL - Burlington Generating Station SCS#: 25218220.00 | | License/Permit/Monitoring Number | | Boring Number MW313 | |
| Boring Drilled By: Name of crew chief (first, last) and Firm Jeff Crank Roberts Environmental Drilling | | Date Drilling Started 5/21/2019 | | Date Drilling Completed 5/21/2019 | |
| Unique Well No. | | DNR Well ID No. | | Common Well Name MW313 | |
| Final Static Water Level 531.05 Feet | | Surface Elevation 534.0 Feet | | Borehole Diameter 8.5 in | |
| Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane 279,130 N, 2,300,907 E S/C/N | | Lat _____ " | | Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W | |
| SE 1/4 of SW 1/4 of Section 29, T 69 N, R 2 | | Long _____ " | | Feet _____ Feet _____ | |
| Facility ID | | County Des Moines | | Civil Town/City/ or Village Burlington | |

| Sample Number and Type | Length Att. & Recovered (in) | Blow Counts | Depth In Feet | Soil/Rock Description And Geologic Origin For Each Major Unit | USCS | Graphic Log | Well Diagram | PID/FID | Soil Properties | | | | | RQD/ Comments |
|------------------------|------------------------------|-------------|---------------|---------------------------------------------------------------|------|-------------|--------------|---------|----------------------|------------------|--------------|------------------|-------|---------------|
| | | | | | | | | | Standard Penetration | Moisture Content | Liquid Limit | Plasticity Index | P 200 | |
| | | | 1-8 | Hydrovaced to 8' | | | | | | | | | | |
| 8 | 3 1 4 5 | | 9 | LEAN CLAY, (GLEY1 4/10Y), trace coarse sand. | | | | | | | M | | | |
| 8 | 1 1 3 4 | | 11 | | CL | | | | | | M | | | |
| 8 | 1 1 2 2 | | 13 | Trace organic material | | | | | | | M | | | |

I hereby certify that the information on this form is true and correct to the best of my knowledge.

| | | |
|---------------|---------------------------------------------------------------------|--------------|
| Signature | Firm SCS Engineers 2830 Dairy Drive, Madison, WI 53718 | Tel: Fax: |
|---------------|---------------------------------------------------------------------|--------------|

Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

| | | | | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|----------------------------------|--------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| Facility/Project Name Burlington Generating Station SCS#: 25220055.00 | | License/Permit/Monitoring Number | | Boring Number MW-313A | |
| Boring Drilled By: Name of crew chief (first, last) and Firm Jeff Crank Roberts Environmental Services | | | Date Drilling Started 6/23/2020 | Date Drilling Completed 6/30/2020 | Drilling Method 4.25" HSA |
| WI Unique Well No. | DNR Well ID No. | Common Well Name | Final Static Water Level 12.13 Feet | Surface Elevation 529.35 Feet MSL | Borehole Diameter 8.0 in. |
| Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane 279,130 N, 2,300,907 E S/C/N SE 1/4 of SW 1/4 of Section 29, T 69 N, R 2 W | | | Lat _____ " _____ " | Local Grid Location Feet <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W | |
| Facility ID | County Des Moines | County Code | Civil Town/City/ or Village Burlington | | |

| Sample | | Depth In Feet | Soil/Rock Description And Geologic Origin For Each Major Unit | U S C S | Graphic Log | Well Diagram | PID/FID | Soil Properties | | | | | RQD/ Comments |
|--------------------|---------------------------------|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|---------|----------------|-----------------|---------|-----------------|-------------------------|---------------------|-----------------|---------------------|------------------|
| Number and Type | Length Att. & Recovered (in) | | | | | | | Blow Counts | Standard Penetration | Moisture Content | Liquid Limit | Plasticity Index | |
| | | 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 | Blind drilled to 28' below ground surface. See logs for MW-313 for log information between 0-28' bgs. | | | | | | | | | | |

I hereby certify that the information on this form is true and correct to the best of my knowledge.

| | | |
|-----------|---------------------------|--------------|
| Signature | Firm SCS Engineers | Tel: Fax: |
|-----------|---------------------------|--------------|

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Boring Number **MW-313A** Use only as an attachment to Form 4400-122. Page **3** of **3**

| Sample | | Blow Counts | Depth In Feet | Soil/Rock Description And Geologic Origin For Each Major Unit | U S C S | Graphic Log | Well Diagram | PID/FID | Soil Properties | | | | | RQD/ Comments | |
|--------------------|---------------------------------|-------------|---------------|--------------------------------------------------------------------------------------|---------|----------------|-----------------|---------|-------------------------|---------------------|-----------------|---------------------|-------|------------------|--|
| Number and Type | Length Att. & Recovered (in) | | | | | | | | Standard Penetration | Moisture Content | Liquid Limit | Plasticity Index | P 200 | | |
| S6 | 10 | 16 79 | 41-42 | POORLY GRADED SAND, fine to mostly coarse grain, trace gravel, grayish brown. | | | | | | | | | | | |
| S7 | 12 | 33 811 | 45-46 | Same, fine to medium grain, trace coarse grain. | | | | | | | | | | | |
| S8 | 15 | 38 2115 | 50-51 | Same, fine to coarse grain. | SP | | | | | | | | | | |
| S9 | 18 | 11 01 | 55-56 | Same, mostly fine to medium grain with trace coarse grain and gravel, grayish brown. | | | | | | | | | | | |
| S10 | 16 | 33 69 | 60-61 | Same fine to coarse grain, grayish brown. | | | | | | | | | | | |
| | | | | End of boring at 62' below ground surface. | | | | | | | | | | | |
| | | | | Set well at 61' bgs. | | | | | | | | | | | |

Took two jar samples from 55-57' bgs and 60-62' bgs and combined them

Route To: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

| | | | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------|--|
| Facility/Project Name Burlington Generating Station SCS#: 25221160.00 | | License/Permit/Monitoring Number | | Boring Number MW-307B | |
| Boring Drilled By: Name of crew chief (first, last) and Firm Mike Mueller Cascade Drilling | | Date Drilling Started 5/10/2021 | | Date Drilling Completed 5/11/2021 | |
| Unique Well No. | | DNR Well ID No. | | Common Well Name MW-307B | |
| Final Static Water Level Feet MSL | | Surface Elevation 534.4 Feet MSL | | Borehole Diameter 6.0 in | |
| Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane 279,534 N, 2,300,353 E <input checked="" type="checkbox"/> C/N | | Lat 40° 44' 32.8" | | Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W | |
| NE 1/4 of SW 1/4 of Section 29, T 69 N, R 2 W | | Long -91° 5' 5.2" | | Feet <input type="checkbox"/> S Feet <input type="checkbox"/> W | |
| Facility ID | | County Des Moines | | Civil Town/City/ or Village Burlington, IA | |

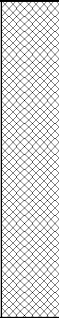




| Sample Number and Type | Length Att. & Recovered (in) | Blow Counts | Depth In Feet | Soil/Rock Description And Geologic Origin For Each Major Unit | U S C S | Graphic Log | Well Diagram | PID/FID | Soil Properties | | | | | RQD/ Comments | |
|------------------------|------------------------------|-------------|---------------|---------------------------------------------------------------------------------------------------------------------|---------|-------------|--------------|---------|----------------------|------------------|--------------|------------------|-------|---------------|----------------------------|
| | | | | | | | | | Standard Penetration | Moisture Content | Liquid Limit | Plasticity Index | P 200 | | |
| S1 | 40 | | 1 | Hydrovac'd to 2' below ground surface (bgs) before hitting compacted bottom ash - hydrovac could not break through. | | | | | | | | | | | |
| | | | 2 | BOTTOM ASH, dark gray to black, hard, consolidated, (fill). | | | | | | | | M | | | |
| S2 | 58 | | 3 | FLY ASH, fine to coarse grained, black, with bottom ash throughout (fill). | | | | | | | | | | | |
| | | | 6 | Same as above but brownish gray, with trace bottom ash. | | | | | | | | M | | | |
| S3 | 8 | | 10 | Same as above but mixed with dense consolidated bottom ash. | | | | | | | | | | | Depth to water at ~12' bgs |

I hereby certify that the information on this form is true and correct to the best of my knowledge.

| | | |
|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|--------------|
| Signature  | Firm SCS Engineers 3900 Kilroy Airport Way Long Beach, CA 90806 | Tel: Fax: |
|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|--------------|

Boring Number MW-307B

Page 2 of 4











| Sample | | Blow Counts | Depth In Feet | Soil/Rock Description And Geologic Origin For Each Major Unit | U S C S | Graphic Log | Well Diagram | PID/FID | Soil Properties | | | | | RQD/ Comments |
|--------------------|---------------------------------|-------------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------|-------------------------|---------------------|-----------------|---------------------|-------|------------------|
| Number and Type | Length Att. & Recovered (in) | | | | | | | | Standard Penetration | Moisture Content | Liquid Limit | Plasticity Index | P 200 | |
| S4 | 40 | | 16 | FLY ASH, fine to coarse grained, black, with bottom ash throughout (fill). <i>(continued)</i> FLY ASH, fine to coarse grained, black, with bottom ash throughout (fill). | |  |  | | | | | | | |
| | | | 17 | | | | | | | | | | | |
| | | | 18 | | | | | | | | | | | |
| | | | 19 | | | | | | | | | | | |
| S5 | 0 | | 20 | No Recovery from 20-25'. | | | | | | | | | | |
| | | | 21 | | | | | | | | | | | |
| | | | 22 | | | | | | | | | | | |
| | | | 23 | | | | | | | | | | | |
| | | | 24 | | | | | | | | | | | |
| | | | 25 | | | | | | | | | | | |
| S6 | 28 | | 27 | LEAN CLAY, dark gray to black, (5Y 2.5/1), loose to dense, with trace gravel. | CL |  | | | | | | | | |
| | | | 28 | | | | | | | | | | | |
| | | | 29 | | | | | | | | | | | |
| | | | 30 | | | | | | | | | | | |
| S7 | 48 | | 30 | POORLY GRADED SAND, fine to coarse grained, dark gray, (10YR 4/1), with trace clay and silt. | |  | | | | | | | | |
| | | | 31 | | | | | | | | | | | |
| | | | 32 | | | | | | | | | | | |
| | | | 33 | | | | | | | | | | | |
| | | | 34 | | | | | | | | | | | |
| | | | 35 | | | | | | | | | | | |
| S8 | 0 | | 35 | Same as above but no clay or silt. | SP |  | | | | | | | | |
| | | | 36 | | | | | | | | | | | |
| | | | 37 | | | | | | | | | | | |
| | | | 38 | | | | | | | | | | | |
| | | | 39 | | | | | | | | | | | |
| 40 | | | | | | | | | | | | | | |

Exact depth of transition from ash to clay is uncertain due to poor sample recovery.

No recovery 35 - 40' bgs

Boring Number MW-307B

Page 3 of 4

| Sample | | Blow Counts | Depth In Feet | Soil/Rock Description And Geologic Origin For Each Major Unit | U S C S | Graphic Log | Well Diagram | PID/FID | Soil Properties | | | | | RQD/ Comments |
|--------------------|---------------------------------|-------------|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------|-------------------------|---------------------|-----------------|---------------------|-------|------------------|
| Number and Type | Length Att. & Recovered (in) | | | | | | | | Standard Penetration | Moisture Content | Liquid Limit | Plasticity Index | P 200 | |
| S9 | 40 | | 41 | POORLY GRADED SAND, fine to coarse grained, dark gray, (10YR 4/1), with trace clay and silt. <i>(continued)</i> Same as above but gray to dark gray, (5Y 4/1). | SP |  |  | | | | | | | |
| | | | 42 | | | | | | | | | | | |
| S10 | 10 | | 43 | SANDY SILT, fine to coarse grained, black, (5Y 2.5/1), with pieces of wood. | ML |  |  | | | | | | | |
| | | | 44 | | | | | | | | | | | |
| S11 | 52 | | 45 | POORLY GRADED SAND, fine to coarse grain, dark gray, (5Y 3/1), with trace silt and gravel. Same as above but gray to dark gray, (5Y 4/1) with no silt. | SP |  |  | | | | | | | |
| | | | 46 | | | | | | | | | | | |
| S12 | 38 | | 47 | Same as above but gray, (5Y 5/1). | SP |  |  | | | | | | | |
| | | | 48 | | | | | | | | | | | |
| S13 | 50 | | 49 | Same as above with trace silt at 60'. | SP |  |  | | | | | | | |
| | | | 50 | | | | | | | | | | | |

Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

| | | | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------------------------------------|---------------------------------------------|------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| Facility/Project Name Burlington Generating Station SCS#: 25221160.00 | | License/Permit/Monitoring Number | | Boring Number MW-313B | |
| Boring Drilled By: Name of crew chief (first, last) and Firm Mike Mueller Cascade Drilling | | | Date Drilling Started 5/11/2021 | | Date Drilling Completed 5/12/2021 |
| Unique Well No. | DNR Well ID No. | Common Well Name MW-313B | Final Static Water Level Feet MSL | | Surface Elevation 533.9 Feet MSL |
| | | | | | Borehole Diameter 6.0 in |
| Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane 279,110 N, 2,300,905 E <input checked="" type="checkbox"/> C/N | | | Lat 40° 44' 28.5" | | Local Grid Location |
| SE 1/4 of SW 1/4 of Section 29 , T 69 N, R 2 W | | | Long -91° 6' 58.2" | | <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W |
| Facility ID | | County Des Moines | | Civil Town/City/ or Village Burlington, IA | |





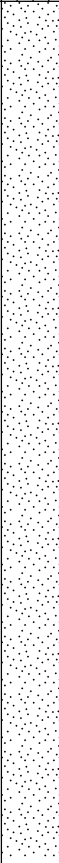

| Sample Number and Type | Length Att. & Recovered (in) | Blow Counts | Depth In Feet | Soil/Rock Description And Geologic Origin For Each Major Unit | U S C S | Graphic Log | Well Diagram | PID/FID | Soil Properties | | | | | RQD/ Comments |
|------------------------|------------------------------|-------------|---------------|--------------------------------------------------------------------------------|---------|-------------|--------------|---------|----------------------|------------------|--------------|------------------|-------|---------------|
| | | | | | | | | | Standard Penetration | Moisture Content | Liquid Limit | Plasticity Index | P 200 | |
| | | | 1-7 | Hydrovacced to 8' below ground surface (bgs). | | | | | | | | | | |
| S1 | 16 | | 8-9 | LEAN CLAY, gray to olive gray, (5Y 3/2), with gravel and trace roots. | CL | | | | 2.5 | W | | | | |
| S2 | 52 | | 12-13 | SILT, gray to dark gray, (10YR 4/1). | ML | | | | 2.0 | W | | | | |
| | | | 13-14 | LEAN CLAY, gray to olive gray, (5Y 3/2,) with trace gravel, roots, and sticks. | CL | | | | | | | | | |

I hereby certify that the information on this form is true and correct to the best of my knowledge.

| | | |
|-----------|---------------------------------------------------------------------------|--------------|
| Signature | Firm SCS Engineers 3900 Kilroy Airport Way Long Beach, CA 90806 | Tel: Fax: |
|-----------|---------------------------------------------------------------------------|--------------|

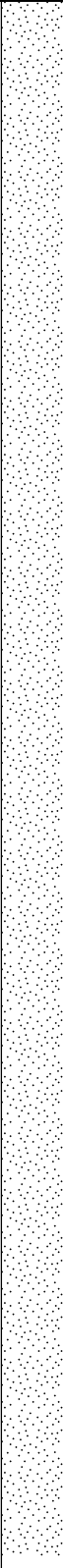

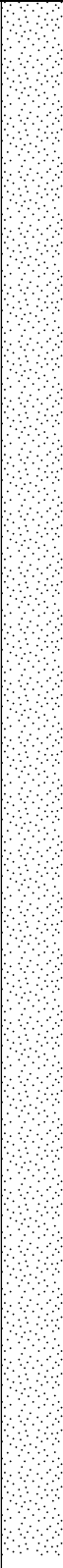

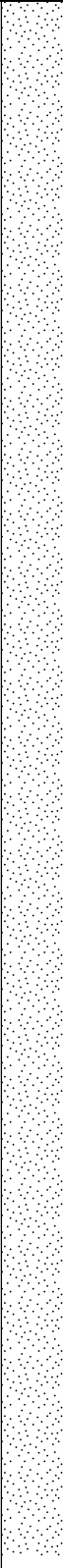

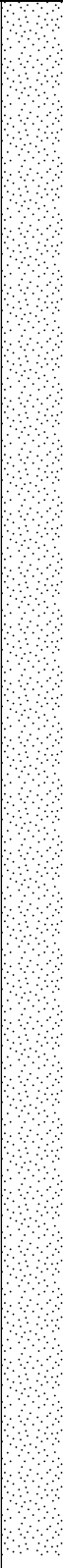

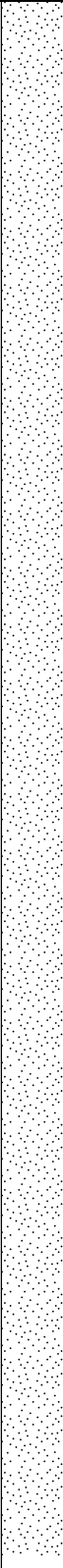

Boring Number MW-313B

Page 2 of 4

| Sample | | Blow Counts | Depth In Feet | Soil/Rock Description And Geologic Origin For Each Major Unit | U S C S | Graphic Log | Well Diagram | PID/FID | Soil Properties | | | | | RQD/ Comments | |
|--------------------|---------------------------------|-------------|---------------|---------------------------------------------------------------------------------------------------|---------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------|-------------------------|---------------------|-----------------|---------------------|-------|--------------------------------------------------|---|
| Number and Type | Length Att. & Recovered (in) | | | | | | | | Standard Penetration | Moisture Content | Liquid Limit | Plasticity Index | P 200 | | |
| S3 | 54 | | 16 | LEAN CLAY, gray to olive gray, (5Y 3/2,) with trace gravel, roots, and sticks. <i>(continued)</i> | CL |  |  | | | | | | | | |
| | | | 17 | Same as above but black to very black, (5Y 2.5/1). | | | | | | | | | | 1.0 | W |
| | | | 18 | | | | | | | | | | | | |
| | | | 19 | | | | | | | | | | | | |
| | | | 20 | | | | | | | | | | | | |
| | 21 | | | | | | | | | | | | | | |
| S4 | 58 | | 22 | SILT, very dark gray, (5Y 3/1), with trace sand. | ML |  |  | | | | | | | | |
| | | | 23 | 0.75 | | | | | | | | | | W | |
| | | | 24 | | | | | | | | | | | | |
| | | | 25 | | | | | | | | | | | | |
| | | | 26 | | | | | | | | | | | | |
| S5 | 52 | | 27 | POORLY GRADED SAND, fine to coarse grained, gray to dark gray, (5Y 4/1). | SP |  |  | | | | | | | | |
| | | | 28 | W | | | | | | | | | | | |
| | | | 29 | | | | | | | | | | | | |
| | | | 30 | | | | | | | | | | | Same as above but more fine than coarse grained. | |
| | | | 31 | | | | | | | | | | | | |
| | 32 | | | | | | | | | | | | | | |
| S6 | 16 | | 33 | Same as above but with trace subrounded to subangular gravel. | SP | | | | | | | | | | |
| | | | 34 | | | | | | | | | | | W | |
| | | | 35 | | | | | | | | | | | | |
| | | | 36 | | | | | | | | | | | | |
| | | | 37 | | | | | | | | | | | | |
| S7 | 19 | | 38 | Same as above but with trace subrounded to subangular gravel. | SP | | | | | | | | | | |
| | | | 39 | | | | | | | | | | | W | |
| | | | 40 | | | | | | | | | | | | |
| | | | 40 | | | | | | | | | | | | |

Boring Number MW-313B

Page 3 of 4

| Sample | | Blow Counts | Depth In Feet | Soil/Rock Description And Geologic Origin For Each Major Unit | U S C S | Graphic Log | Well Diagram | PID/FID | Soil Properties | | | | | RQD/ Comments |
|--------------------|---------------------------------|-------------|---------------|--------------------------------------------------------------------------------------|---------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------|-------------------------|---------------------|-----------------|---------------------|-------|------------------|
| Number and Type | Length Att. & Recovered (in) | | | | | | | | Standard Penetration | Moisture Content | Liquid Limit | Plasticity Index | P 200 | |
| S8 | 46 | | 41 | POORLY GRADED SAND, fine to coarse grained, gray to dark gray, (5Y 4/1). (continued) | |  |  | | | | | | | |
| | | | 42 | | | | | | | | | | | |
| | | | 43 | | | | | | | | | | | |
| | | | 44 | | | | | | | | | | | |
| | | | 45 | | | | | | | | | | | |
| S9 | 33 | | 46 | | |  |  | | | | | | | |
| | | | 47 | | | | | | | | | | | |
| | | | 48 | | | | | | | | | | | |
| | | | 49 | | | | | | | | | | | |
| | | | 50 | | | | | | | | | | | |
| S10 | 30 | | 51 | | SP |  |  | | | | | | | |
| | | | 52 | | | | | | | | | | | |
| | | | 53 | | | | | | | | | | | |
| | | | 54 | | | | | | | | | | | |
| | | | 55 | | | | | | | | | | | |
| S11 | 35 | | 55 | Same as above but grayish brown, (2.5Y 5/2). | |  |  | | | | | | | |
| | | | 56 | | | | | | | | | | | |
| | | | 57 | | | | | | | | | | | |
| | | | 58 | | | | | | | | | | | |
| | | | 59 | | | | | | | | | | | |
| S12 | 54 | | 60 | | |  |  | | | | | | | |
| | | | 61 | | | | | | | | | | | |
| | | | 62 | | | | | | | | | | | |
| | | | 63 | | | | | | | | | | | |
| | | | 64 | | | | | | | | | | | |
| | | | 65 | | | | | | | | | | | |



IOWA DEPARTMENT OF NATURAL RESOURCES
MONITORING WELL/PIEZOMETER CONSTRUCTION DOCUMENTATION FORM

Disposal Site Name: IPL - Burlington Generating Station Permit No.: _____

Well or Piezometer No: MW-301

Dates Started: 2/29/16 Date Completed: 2/29/16

| A. SURVEYED LOCATIONS AND ELEVATIONS | B. SOIL BORING INFORMATION |
|-----------------------------------------------------------|-----------------------------------------------|
| Locations (± 0.5 ft): _____ | Name & Address of Construction Company: _____ |
| Specify corner of site: <u>SE of Parcel 16-29-300-007</u> | <u>Direct Push Analytical Corp</u> |
| Distance & direction along boundary: <u>119' W</u> | <u>4N969 Old LaFox Road, Unit E</u> |
| Distance & direction from boundary to wall: <u>356' N</u> | <u>St. Charles, IL 60175</u> |
| Elevations (± 0.01 ft MSL): _____ | Name of Driller: <u>Kevin Collins</u> |
| Ground Surface: <u>535.98</u> | Drilling Method: <u>Direct Push/4.25" HSA</u> |
| Top of protective casing: <u>538.75</u> | Drilling Fluid: <u>NA</u> |
| Top of well casing: _____ <u>538.38</u> | Bore Hole Diameter: <u>8.5 inch</u> |
| Benchmark elevation: _____ | Soil Sampling Method: <u>Macro Core</u> |
| Benchmark description: _____ | Depth of Boring: <u>29.50 ft bgs</u> |

| C. MONITORING WELL INSTALLATION | |
|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Casing material: _____ <u>PVC</u> | Placement method: <u>Gravity</u> |
| Length of casing: _____ <u>24.5</u> | Volume: <u>4.4 cubic ft</u> |
| Outside casing diameter: _____ <u>2.38"</u> | Backfill (if different from seal): _____ |
| Inside casing diameter: _____ <u>2"</u> | Material: _____ |
| Casing joint type: _____ <u>threaded</u> | Placement method: _____ |
| Casing/screen joint type: _____ <u>threaded</u> | Volume: _____ |
| Screen material: _____ <u>PVC</u> | Surface seal design: _____ |
| Screen opening size: _____ <u>0.010"</u> | Material of protective casing: <u>Steel 4 inch</u> |
| Screen length: _____ <u>5 ft</u> | Material of grout between protective casing and well casing: <u>sand</u> |
| Depth of well: _____ <u>29.5 ft</u> | Protective cap: _____ |
| Filter Pack: _____ | Material: <u>Steel, vented</u> |
| Material: _____ <u>NSF R.W Sidley Inc.</u> | Vented: <input type="checkbox"/> Yes <input type="checkbox"/> No Locking: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| Grain size: _____ <u>10/20</u> | Well Cap: _____ |
| Volume: _____ <u>2.25 cubic ft</u> | Material: <u>PVC</u> |
| Seal (minimum 3 ft length above filter pack): _____ | Vented: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Material: <u>Black Hills Bentonite 3/8 inch</u> | |

| D. GROUNDWATER MEASUREMENT (± 0.01 ft below top of inner well casing) | |
|------------------------------------------------------------------------------------------------------|------------------------------------------|
| Water level: <u>15.47 ft</u> | Stabilization Time: <u><5 minutes</u> |
| Well development method: <u>Surged with block and pumped to reduce turbidity. 45 gallons pumped.</u> | |
| Average depth of frostline: <u>3.5'</u> | |

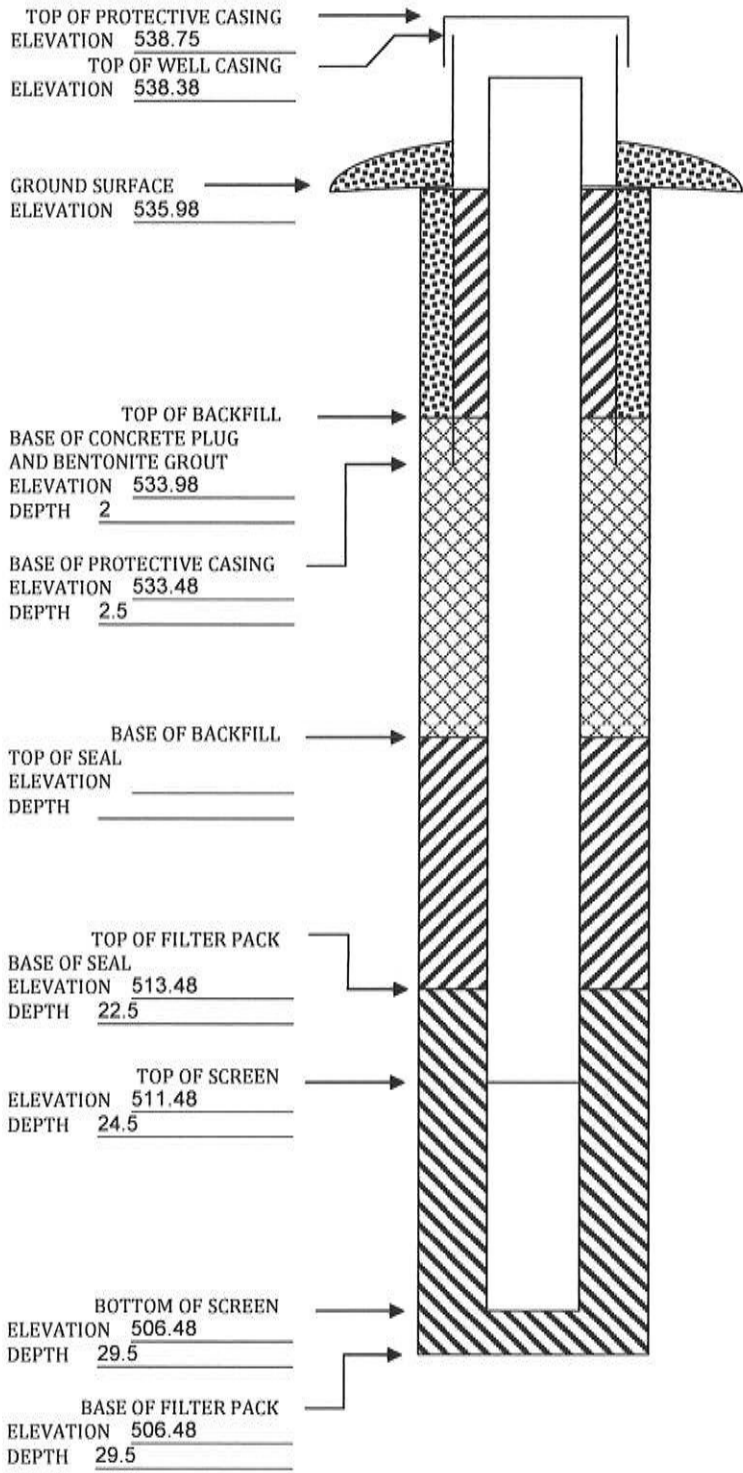
Attachments: Driller's log. Pipe schedules and grouting schedules. 8 1/2x11 inch map showing locations of all monitoring wells and piezometers.

Please mail completed for to: Iowa Department of Natural Resources, Land Quality Bureau, 502 E 9th St, Des Moines IA 50319-0034.

Questions? Call or Email: Nina Koger, Environmental Engineer Sr., 515-281-8986, Nina.Koger@dnr.iowa.gov

ELEVATIONS: ± 0.01 ft MSL
DEPTHS: ± 0.1 ft FROM GROUND SURFACE

SPACE TO ATTACH ENTIRE SOIL BORING LOG
(SHOW SCREENED INTERVAL AND FILTER PACK INTERVAL.)





IOWA DEPARTMENT OF NATURAL RESOURCES
MONITORING WELL/PIEZOMETER CONSTRUCTION DOCUMENTATION FORM

Disposal Site Name: IPL - Burlington Generating Station Permit No.: _____
 Well or Piezometer No: MW-302
 Dates Started: 2/29/16 Date Completed: 2/29/16

| A. SURVEYED LOCATIONS AND ELEVATIONS | B. SOIL BORING INFORMATION |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Locations (± 0.5 ft): _____ Specify corner of site: <u>SE of Parcel 16-29-300-008</u> Distance & direction along boundary: <u>315' W</u> Distance & direction from boundary to wall: <u>34'N</u> | Name & Address of Construction Company: _____ <u>Direct Push Analytical Corp</u> <u>4N969 Old LaFox Road, Unit E</u> <u>St. Charles, IL 60175</u> |
| Elevations (± 0.01 ft MSL): _____ Ground Surface: <u>533.24</u> Top of protective casing: <u>535.98</u> Top of well casing: _____ <u>535.69</u> Benchmark elevation: _____ Benchmark description: _____ | Name of Driller: <u>Kevin Collins</u> Drilling Method: <u>Direct Push/4.25" HSA</u> Drilling Fluid: <u>NA</u> Bore Hole Diameter: <u>8.5 inch</u> Soil Sampling Method: <u>Macro Core</u> Depth of Boring: <u>28 ft bgs</u> |

| C. MONITORING WELL INSTALLATION | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Casing material: <u>PVC</u> Length of casing: <u>22.5</u> Outside casing diameter: <u>2.38"</u> Inside casing diameter: <u>2"</u> Casing joint type: <u>threaded</u> Casing/screen joint type: <u>threaded</u> Screen material: <u>PVC</u> Screen opening size: <u>0.010"</u> Screen length: <u>5 ft</u> Depth of well: <u>27.5</u> Filter Pack: _____ Material: <u>NSF R.W Sidley Inc.</u> Grain size: <u>10/20</u> Volume: <u>1.25 cubic ft</u> Seal (minimum 3 ft length above filter pack): _____ Material: <u>Black Hills Bentonite 3/8 inch</u> | Placement method: <u>Gravity</u> Volume: <u>2.7 cubic ft</u> Backfill (if different from seal): _____ Material: _____ Placement method: _____ Volume: _____ Surface seal design: _____ Material of protective casing: <u>Steel 4 inch</u> Material of grout between protective casing and well casing: <u>sand</u> Protective cap: _____ Material: <u>Steel, vented</u> Vented: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Locking: <input type="checkbox"/> Yes <input type="checkbox"/> No Well Cap: _____ Material: <u>PVC</u> Vented: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |

| D. GROUNDWATER MEASUREMENT (± 0.01 ft below top of inner well casing) |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Water level: <u>12.70 ft</u> Stabilization Time: <u><5 minutes</u> Well development method: <u>Surged with block and pumped to reduce turbidity. 68.5 gallons pumped.</u> Average depth of frostline: <u>3.5</u> |

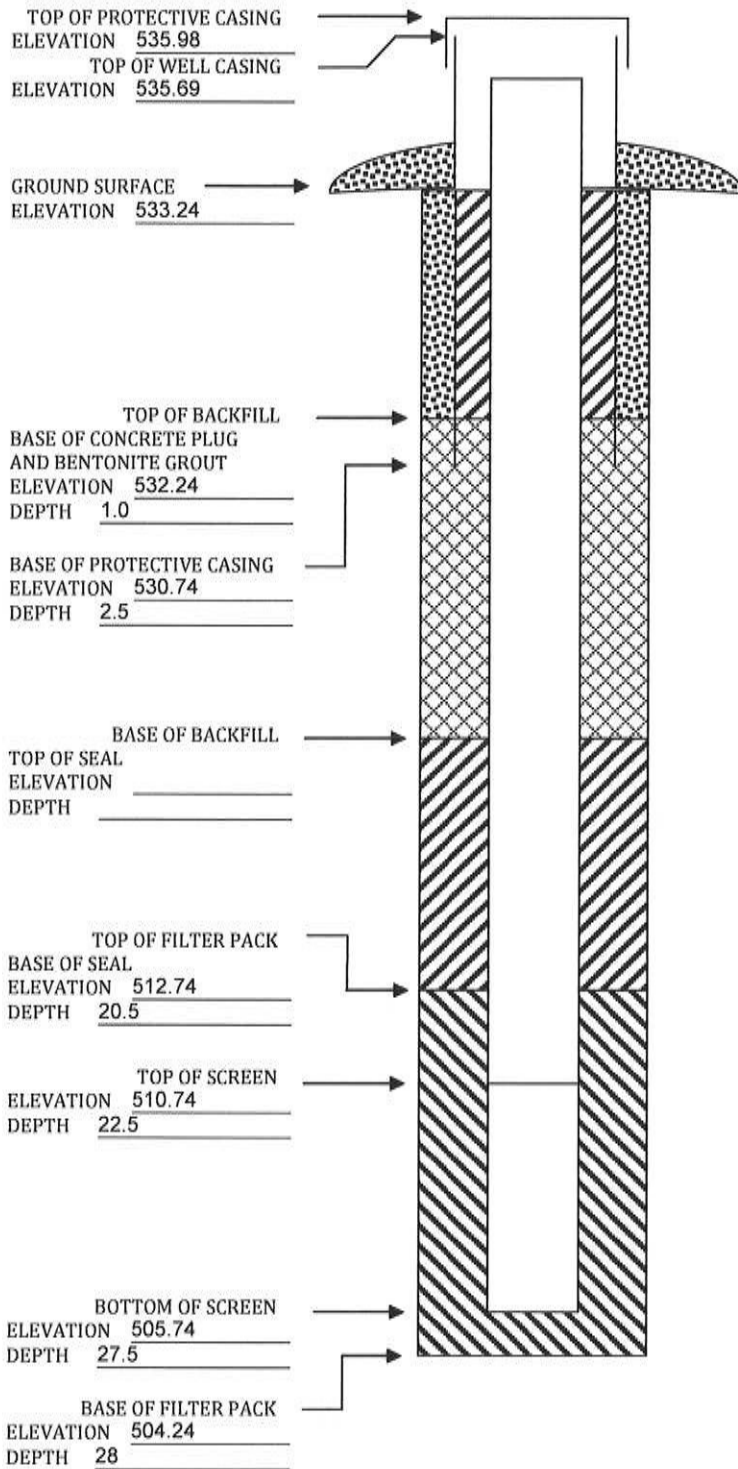
Attachments: Driller's log. Pipe schedules and grouting schedules. 8 1/2x11 inch map showing locations of all monitoring wells and piezometers.

Please mail completed for to: Iowa Department of Natural Resources, Land Quality Bureau, 502 E 9th St, Des Moines IA 50319-0034.

Questions? Call or Email: Nina Koger, Environmental Engineer Sr., 515-281-8986, Nina.Koger@dnr.iowa.gov

ELEVATIONS: ± 0.01 ft MSL
DEPTHS: ± 0.1 ft FROM GROUND SURFACE

SPACE TO ATTACH ENTIRE SOIL BORING LOG
(SHOW SCREENED INTERVAL AND FILTER PACK INTERVAL.)



MONITORING WELL / PIEZOMETER CONSTRUCTION DOCUMENTATION FORM

Disposal Site Name Burlington Generating Station Permit No. _____
Well or Piezometer No. MW-302A Dates Started 6/30/2020 Date Completed 7/1/2020

A. SURVEYED LOCATION AND ELEVATION OF POINT (+0.5 ft.)

Specify corner of site South East Corner Distance and direction along boundary _____
Distance and direction from boundary to surface monitoring well _____
Elevation (+0.01 ft. MSL) _____
Ground Surface 533.51' Top of protective casing 536.28'
Top of well casing 535.89' Benchmark elevation _____
Benchmark description _____

B. SOIL BORING INFORMATION

Construction Company Name Roberts Environmental Drilling
Address 1107 S Mulberry St City, State, Zip Code Millstadt, IL 62260
Name of driller Jeff Crank
Drilling method Hollow Stem Auger Drilling fluid Water Bore Hole diameter 4.25"
Soil sampling method Split spoon Depth of boring 61'

C. MONITORING WELL INSTALLATION

Casing material Sch. 40 PVC Placement method Pumped
Length of casing 62.5' Volume 8, 50lbs bags (120 gallons of grout)
Outside casing diameter 2.4" Backfill (if different from seal): _____
Inside casing diameter 2" Material 3/8" Bentonite chips
Casing joint type Threaded Placement method Poured
Casing/screen joint type Threaded Volume 3, 50lbs bags
Screen material Sch. 40 PVC Surface seal design: Stick-up
Screen opening size 0.01 Material of protective casing: steel
Screen length 5' Material of grout between
Depth of Well 60' protective casing and well casing: Sand
Protective cap: _____
Filter Pack: _____ Material Steel
Material Sand (FilterSil) Vented?: Y N Locking?: Y N
Grain Size 18-23 Well cap: Lockable expanding well plug
Volume 2, 50lbs bags Material Plastic
Seal (minimum 3 ft. length above filter pack): _____ Vented?: Y N
Material Bentonite grout

D. GROUNDWATER MEASUREMENT (+0.01 foot below top of inner well casing)

Water level 14.25' Stabilization time < 5 min
Well development method Surged with bailer and pumped
Average depth of frost line 4'

DRILLER'S CERTIFICATION

I certify under penalty of law I believe the information reported above is true, accurate, and complete.

Signature *Jeff Crank* Certification # 8515 Date 9-16-20

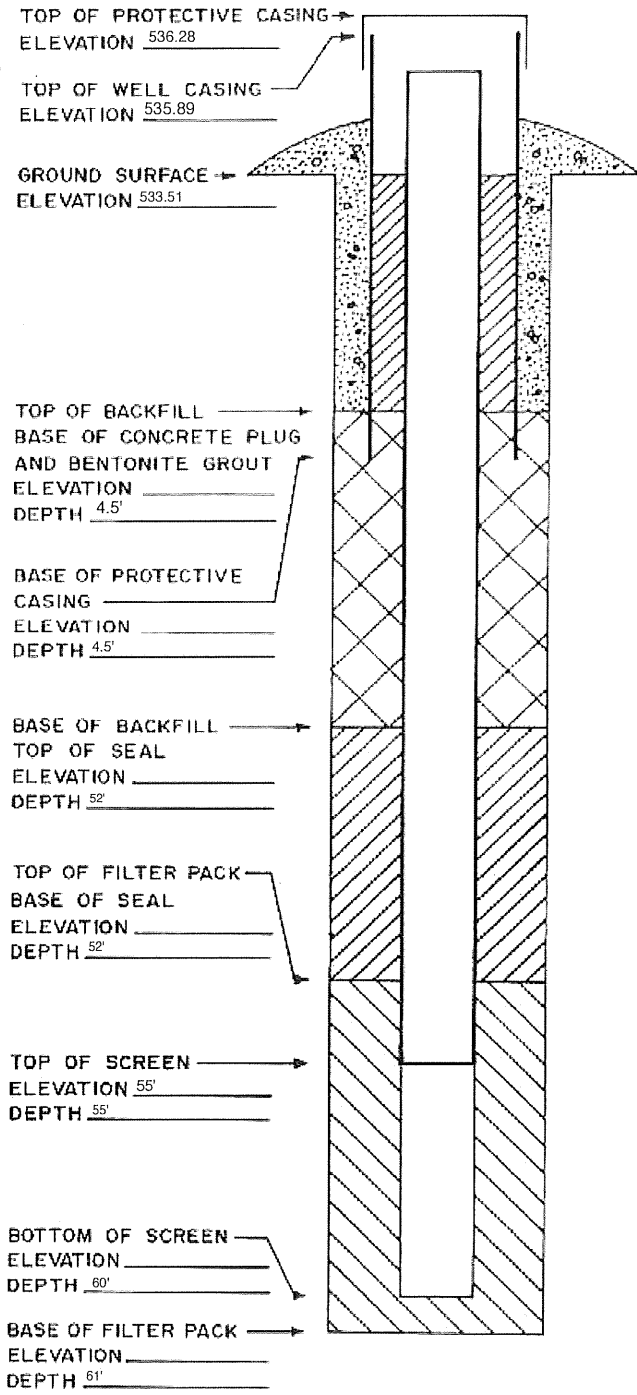
Attachments: Driller's log. Pipe schedules and grouting schedules. 8 1/2 inch x 11 inch map showing locations of all monitoring wells and piezometers.

Please mail completed form to: Iowa Department of Natural Resources, Land Quality Bureau, 502 E. 9th St, Des Moines, IA 50319.

Questions? Call or Email: Nina Booker Environmental Engineer Sr., 515-725-8309, nina.booker@dnr.iowa.gov

ELEVATIONS: ± 0.01 FT. MSL
DEPTHS: ± 0.1 FT. FROM
GROUND SURFACE

SPACE TO ATTACH ENTIRE SOIL BORING LOG
(SHOW SCREENED INTERVAL AND FILTER PACK INTERVAL).





IOWA DEPARTMENT OF NATURAL RESOURCES

MONITORING WELL/PIEZOMETER CONSTRUCTION DOCUMENTATION FORM

Disposal Site Name: IPL - Burlington Generating Station Permit No.: _____Well or Piezometer No: MW-303Dates Started: 12/15/15 Date Completed: 12/15/15

| A. SURVEYED LOCATIONS AND ELEVATIONS | B. SOIL BORING INFORMATION |
|-----------------------------------------------------------|-----------------------------------------------|
| Locations (± 0.5 ft): _____ | Name & Address of Construction Company: _____ |
| Specify corner of site: <u>SE of Parcel 16-29-300-008</u> | <u>Cascade Drilling, LP</u> |
| Distance & direction along boundary: <u>89' W</u> | <u>301 Alderson St</u> |
| Distance & direction from boundary to wall: <u>139' N</u> | <u>Schofield, WI 54476</u> |
| Elevations (± 0.01 ft MSL): _____ | Name of Driller: <u>Mike Mueller</u> |
| Ground Surface: <u>531.01</u> | Drilling Method: <u>4.25" HSA</u> |
| Top of protective casing: <u>534.08</u> | Drilling Fluid: <u>NA</u> |
| Top of well casing: _____ <u>533.6</u> | Bore Hole Diameter: <u>8.5 inch</u> |
| Benchmark elevation: _____ | Soil Sampling Method: <u>Spoon</u> |
| Benchmark description: _____ | Depth of Boring: <u>27 ft</u> |

| C. MONITORING WELL INSTALLATION | |
|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Casing material: _____ <u>PVC</u> | Placement method: <u>Gravity</u> |
| Length of casing: _____ <u>21 ft</u> | Volume: <u>7.4 cubic ft</u> |
| Outside casing diameter: _____ <u>2.38"</u> | Backfill (if different from seal): _____ |
| Inside casing diameter: _____ <u>2"</u> | Material: _____ |
| Casing joint type: _____ <u>threaded</u> | Placement method: _____ |
| Casing/screen joint type: _____ <u>threaded</u> | Volume: _____ |
| Screen material: _____ <u>PVC</u> | Surface seal design: _____ |
| Screen opening size: _____ <u>0.010"</u> | Material of protective casing: <u>Steel 6 inch</u> |
| Screen length: _____ <u>5 ft</u> | Material of grout between protective casing and well casing: <u>sand</u> |
| Depth of well: _____ <u>26 ft</u> | Protective cap: _____ |
| Filter Pack: _____ | Material: <u>steel, vented</u> |
| Material: _____ <u>Red Flint</u> | Vented: <input type="checkbox"/> Yes <input type="checkbox"/> No Locking: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| Grain size: _____ <u>#40</u> | Well Cap: _____ |
| Volume: _____ <u>2.5 cubic ft</u> | Material: <u>PVC</u> |
| Seal (minimum 3 ft length above filter pack): _____ | Vented: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Material: <u>Hole Plug 3/8 inch</u> | |

| D. GROUNDWATER MEASUREMENT (± 0.01 ft below top of inner well casing) | |
|-------------------------------------------------------------------------------------------------------|------------------------------------------|
| Water level: <u>10.55 ft</u> | Stabilization Time: <u><5 minutes</u> |
| Well development method: <u>Surged with block and pumped to reduce turbidity. 147 gallons pumped.</u> | |
| Average depth of frostline: <u>3.5'</u> | |

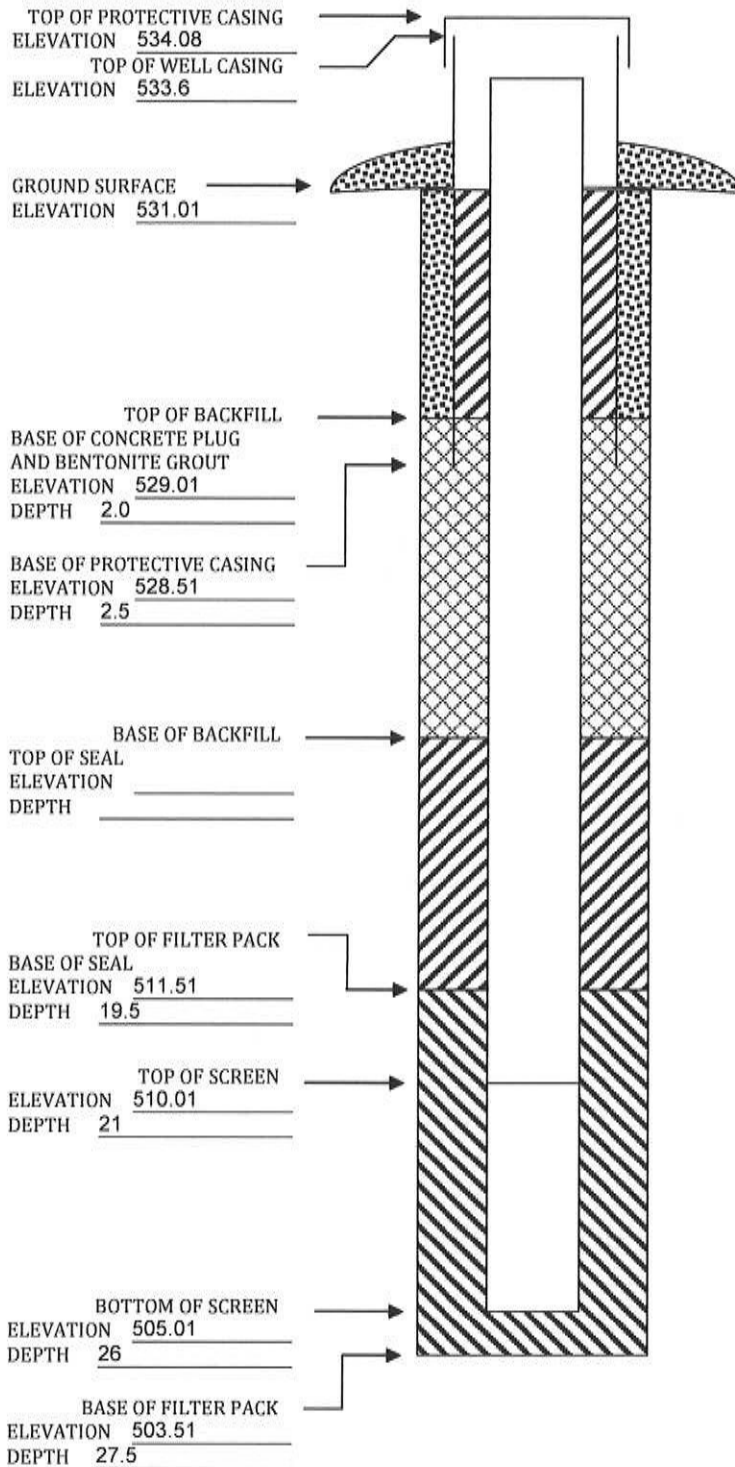
Attachments: Driller's log, Pipe schedules and grouting schedules. 8 1/2x11 inch map showing locations of all monitoring wells and piezometers.

Please mail completed for to: Iowa Department of Natural Resources, Land Quality Bureau, 502 E 9th St, Des Moines IA 50319-0034.

Questions? Call or Email: Nina Koger, Environmental Engineer Sr., 515-281-8986, Nina.Koger@dnr.iowa.gov

ELEVATIONS: ± 0.01 ft MSL
DEPTHS: ± 0.1 ft FROM GROUND SURFACE

SPACE TO ATTACH ENTIRE SOIL BORING LOG
(SHOW SCREENED INTERVAL AND FILTER PACK INTERVAL.)





IOWA DEPARTMENT OF NATURAL RESOURCES
MONITORING WELL/PIEZOMETER CONSTRUCTION DOCUMENTATION FORM

Disposal Site Name: IPL - Burlington Generating Station Permit No.: _____

Well or Piezometer No: MW-304

Dates Started: 12/15/15 Date Completed: 12/15/15

| A. SURVEYED LOCATIONS AND ELEVATIONS | B. SOIL BORING INFORMATION |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Locations (\pm 0.5 ft): _____ Specify corner of site: <u>SE of Parcel 16-29-300-008</u> Distance & direction along boundary: <u>61' W</u> Distance & direction from boundary to wall: <u>558' N</u> Elevations (\pm 0.01 ft MSL): _____ Ground Surface: <u>532.15</u> Top of protective casing: <u>535.00</u> Top of well casing: _____ <u>534.42</u> Benchmark elevation: _____ Benchmark description: _____ | Name & Address of Construction Company: <u>Cascade Drilling, LP</u> <u>301 Alderson St</u> <u>Schofield, WI 54476</u> Name of Driller: <u>Mike Mueller</u> Drilling Method: <u>4.25" HSA</u> Drilling Fluid: <u>NA</u> Bore Hole Diameter: <u>8.5 inch</u> Soil Sampling Method: <u>Spoon</u> Depth of Boring: <u>27 ft</u> |

| C. MONITORING WELL INSTALLATION | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Casing material: _____ <u>PVC</u> Length of casing: _____ <u>18 ft</u> Outside casing diameter: _____ <u>2.38"</u> Inside casing diameter: _____ <u>2"</u> Casing joint type: _____ <u>threaded</u> Casing/screen joint type: _____ <u>threaded</u> Screen material: _____ <u>PVC</u> Screen opening size: _____ <u>0.010"</u> Screen length: _____ <u>5 ft</u> Depth of well: _____ <u>23 ft</u> Filter Pack: _____ Material: _____ <u>Red Flint</u> Grain size: _____ <u>#40</u> Volume: _____ <u>2.0 cubic ft</u> Seal (minimum 3 ft length above filter pack): _____ Material: <u>Hole Plug 3/8 inch</u> | Placement method: <u>Gravity</u> Volume: <u>4 cubic ft</u> Backfill (if different from seal): _____ Material: _____ Placement method: _____ Volume: _____ Surface seal design: _____ Material of protective casing: <u>Steel 6 inch</u> Material of grout between protective casing and well casing: <u>sand</u> Protective cap: _____ Material: <u>steel, vented</u> Vented: <input type="checkbox"/> Yes <input type="checkbox"/> No Locking: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Well Cap: _____ Material: <u>PVC</u> Vented: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |

| D. GROUNDWATER MEASUREMENT (\pm 0.01 ft below top of inner well casing) |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Water level: <u>11.34 ft</u> Stabilization Time: <u><5 minutes</u> Well development method: <u>Surged with block and pumped to reduce turbidity. 136 gallons pumped.</u> Average depth of frostline: <u>3.5'</u> |

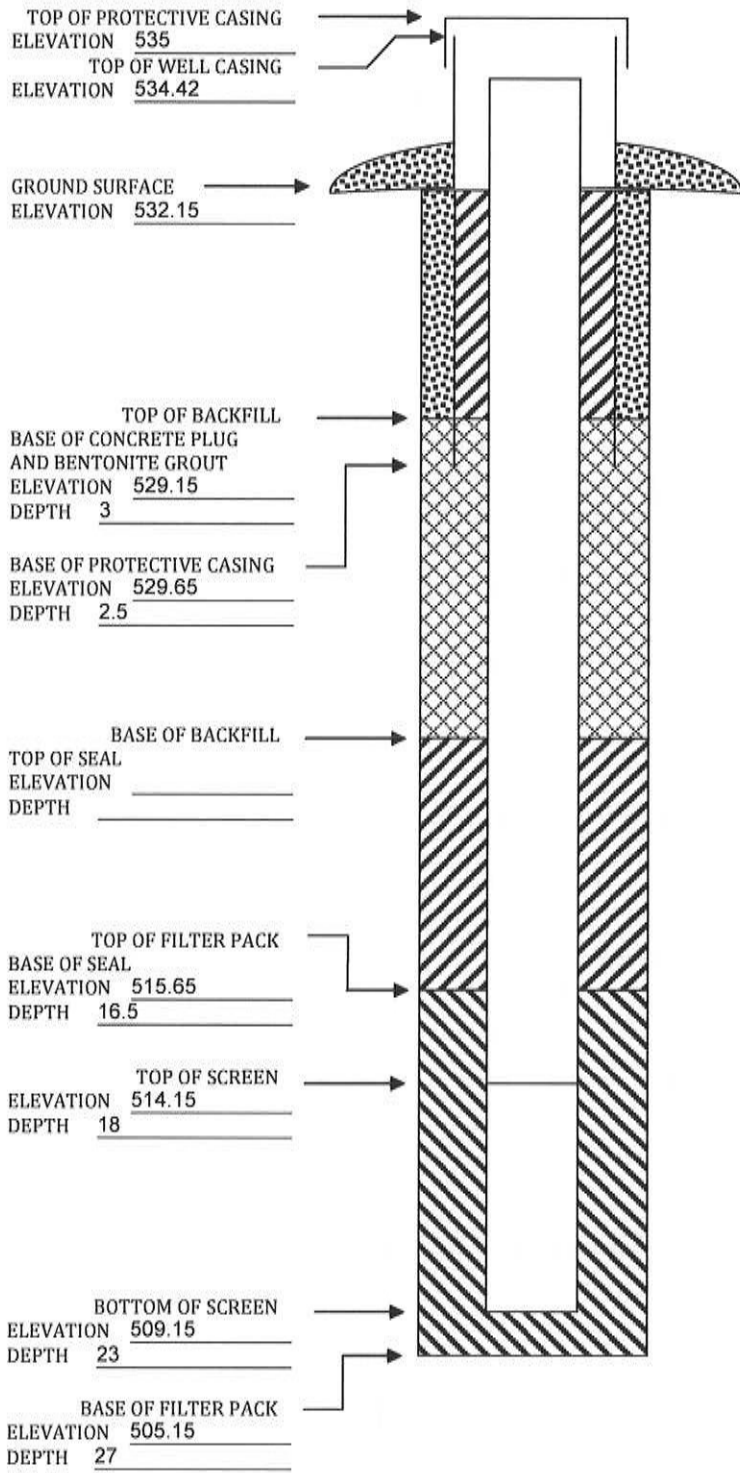
Attachments: Driller's log. Pipe schedules and grouting schedules. 8 1/2x11 inch map showing locations of all monitoring wells and piezometers.

Please mail completed for to: Iowa Department of Natural Resources, Land Quality Bureau, 502 E 9th St, Des Moines IA 50319-0034.

Questions? Call or Email: Nina Koger, Environmental Engineer Sr., 515-281-8986, Nina.Koger@dnr.iowa.gov

ELEVATIONS: ± 0.01 ft MSL
DEPTHS: ± 0.1 ft FROM GROUND SURFACE

SPACE TO ATTACH ENTIRE SOIL BORING LOG
(SHOW SCREENED INTERVAL AND FILTER PACK INTERVAL.)





IOWA DEPARTMENT OF NATURAL RESOURCES
MONITORING WELL/PIEZOMETER CONSTRUCTION DOCUMENTATION FORM

Disposal Site Name: IPL - Burlington Generating Station Permit No.: _____

Well or Piezometer No: MW-305

Dates Started: 12/17/15 Date Completed: 12/17/15

| A. SURVEYED LOCATIONS AND ELEVATIONS | B. SOIL BORING INFORMATION |
|-----------------------------------------------------------|-----------------------------------------------|
| Locations (\pm 0.5 ft): _____ | Name & Address of Construction Company: _____ |
| Specify corner of site: <u>NW of Parcel 16-29-300-006</u> | <u>Cascade Drilling, LP</u> |
| Distance & direction along boundary: <u>475' S</u> | <u>301 Alderson St</u> |
| Distance & direction from boundary to wall: <u>297' E</u> | <u>Schofield, WI 54476</u> |
| Elevations (\pm 0.01 ft MSL): _____ | Name of Driller: <u>Mike Mueller</u> |
| Ground Surface: <u>530.85</u> | Drilling Method: <u>4.25" HSA</u> |
| Top of protective casing: <u>533.93</u> | Drilling Fluid: <u>NA</u> |
| Top of well casing: _____ <u>533.28</u> | Bore Hole Diameter: <u>8.5 inch</u> |
| Benchmark elevation: _____ | Soil Sampling Method: <u>Spoon</u> |
| Benchmark description: _____ | Depth of Boring: <u>27.5 ft</u> |

| C. MONITORING WELL INSTALLATION | |
|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Casing material: _____ <u>PVC</u> | Placement method: <u>Gravity</u> |
| Length of casing: _____ | Volume: <u>5.4 cubic ft</u> |
| Outside casing diameter: _____ <u>2.38"</u> | Backfill (if different from seal): _____ |
| Inside casing diameter: _____ <u>2"</u> | Material: _____ |
| Casing joint type: _____ <u>threaded</u> | Placement method: _____ |
| Casing/screen joint type: _____ <u>threaded</u> | Volume: _____ |
| Screen material: _____ <u>PVC</u> | Surface seal design: _____ |
| Screen opening size: _____ <u>0.010"</u> | Material of protective casing: <u>Steel 6 inch</u> |
| Screen length: _____ <u>5</u> | Material of grout between protective casing and well casing: <u>sand</u> |
| Depth of well: _____ <u>32</u> | Protective cap: _____ |
| Filter Pack: _____ | Material: <u>Steel, vented</u> |
| Material: _____ <u>Red Flint</u> | Vented: <input type="checkbox"/> Yes <input type="checkbox"/> No Locking: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| Grain size: _____ <u>#40</u> | Well Cap: _____ |
| Volume: _____ <u>2.0 cubic ft</u> | Material: <u>PVC</u> |
| Seal (minimum 3 ft length above filter pack): _____ | Vented: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Material: <u>Hole Plug 3/8 inch</u> | |

| D. GROUNDWATER MEASUREMENT (\pm 0.01 ft below top of inner well casing) | |
|-------------------------------------------------------------------------------------------------------|------------------------------------------|
| Water level: <u>10.04 ft</u> | Stabilization Time: <u><5 minutes</u> |
| Well development method: <u>Surged with block and pumped to reduce turbidity. 184 gallons pumped.</u> | |
| Average depth of frostline: <u>3.5'</u> | |

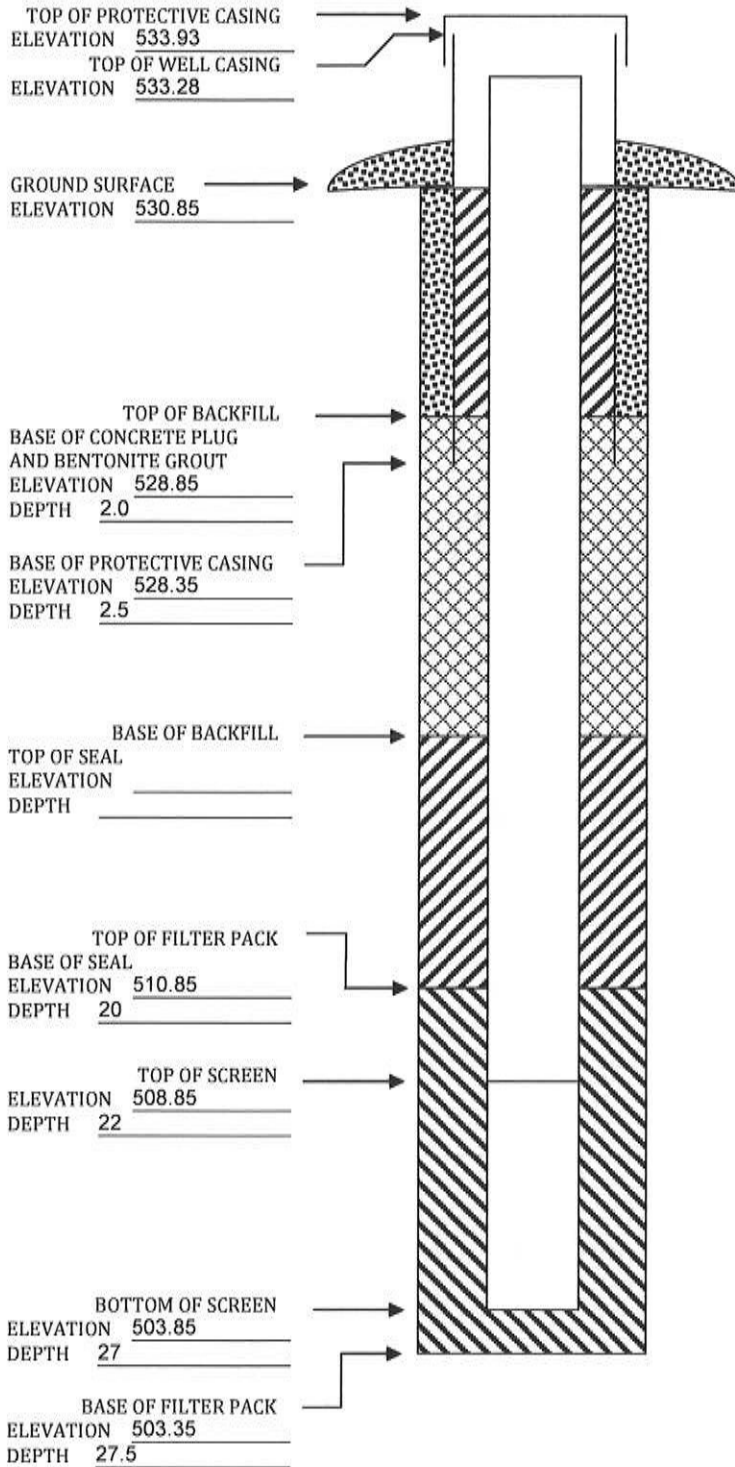
Attachments: Driller's log, Pipe schedules and grouting schedules. 8 1/2x11 inch map showing locations of all monitoring wells and piezometers.

Please mail completed for to: Iowa Department of Natural Resources, Land Quality Bureau, 502 E 9th St, Des Moines IA 50319-0034.

Questions? Call or Email: Nina Koger, Environmental Engineer Sr., 515-281-8986, Nina.Koger@dnr.iowa.gov

ELEVATIONS: ± 0.01 ft MSL
DEPTHS: ± 0.1 ft FROM GROUND SURFACE

SPACE TO ATTACH ENTIRE SOIL BORING LOG
(SHOW SCREENED INTERVAL AND FILTER PACK INTERVAL.)





IOWA DEPARTMENT OF NATURAL RESOURCES
MONITORING WELL/PIEZOMETER CONSTRUCTION DOCUMENTATION FORM

Disposal Site Name: IPL - Burlington Generating Station Permit No.: _____

Well or Piezometer No: MW-306

Dates Started: 12/16/15 Date Completed: 12/17/15

| A. SURVEYED LOCATIONS AND ELEVATIONS | B. SOIL BORING INFORMATION |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Locations (\pm 0.5 ft): Specify corner of site: <u>SW of Parcel 16-29-300-006</u> Distance & direction along boundary: <u>328' N</u> Distance & direction from boundary to wall: <u>210' E</u> Elevations (\pm 0.01 ft MSL): Ground Surface: <u>534.51</u> Top of protective casing: <u>537.44</u> Top of well casing: <u>536.92</u> Benchmark elevation: _____ Benchmark description: _____ | Name & Address of Construction Company: <u>Cascade Drilling, LP</u> <u>301 Alderson St</u> <u>Schofield, WI 54476</u> Name of Driller: <u>Mike Mueller</u> Drilling Method: <u>4.25" HSA</u> Drilling Fluid: <u>NA</u> Bore Hole Diameter: <u>8.5 inch</u> Soil Sampling Method: <u>Spoon</u> Depth of Boring: <u>32.5 ft</u> |

| C. MONITORING WELL INSTALLATION | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Casing material: <u>PVC</u> Length of casing: <u>27 ft</u> Outside casing diameter: <u>2.38"</u> Inside casing diameter: <u>2"</u> Casing joint type: <u>threaded</u> Casing/screen joint type: <u>threaded</u> Screen material: <u>PVC</u> Screen opening size: <u>0.010"</u> Screen length: <u>5 ft</u> Depth of well: <u>32 ft</u> Filter Pack: Material: <u>Red Flint</u> Grain size: <u>#40</u> Volume: <u>2.5 cubic ft</u> Seal (minimum 3 ft length above filter pack): Material: <u>Hole Plug 3/8 inch</u> | Placement method: <u>Gravity</u> Volume: <u>6.7 cubic ft.</u> Backfill (if different from seal): _____ Material: _____ Placement method: _____ Volume: _____ Surface seal design: _____ Material of protective casing: <u>Steel 6 inch</u> Material of grout between protective casing and well casing: <u>sand</u> Protective cap: _____ Material: <u>Steel, vented</u> Vented: <input type="checkbox"/> Yes <input type="checkbox"/> No Locking: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Well Cap: _____ Material: <u>PVC</u> Vented: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |

| D. GROUNDWATER MEASUREMENT (\pm 0.01 ft below top of inner well casing) |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Water level: <u>13.65</u> Stabilization Time: <u><5 minutes</u> Well development method: <u>Surged with block and pumped to reduce turbidity. 120 gallons pumped.</u> Average depth of frostline: <u>3.5</u> |

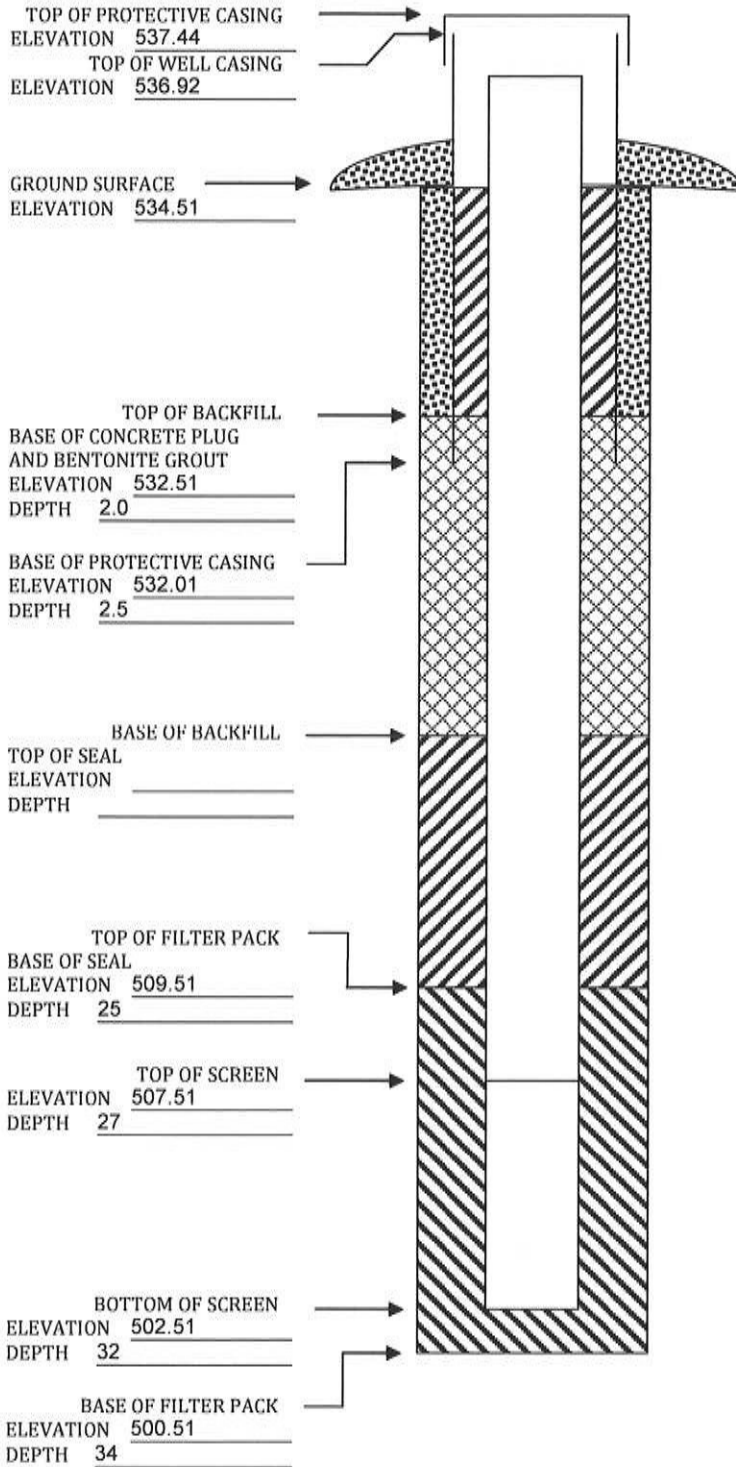
Attachments: Driller's log, Pipe schedules and grouting schedules. 8 1/2x11 inch map showing locations of all monitoring wells and piezometers.

Please mail completed for to: Iowa Department of Natural Resources, Land Quality Bureau, 502 E 9th St, Des Moines IA 50319-0034.

Questions? Call or Email: Nina Koger, Environmental Engineer Sr., 515-281-8986, Nina.Koger@dnr.iowa.gov

ELEVATIONS: ± 0.01 ft MSL
DEPTHS: ± 0.1 ft FROM GROUND SURFACE

SPACE TO ATTACH ENTIRE SOIL BORING LOG
(SHOW SCREENED INTERVAL AND FILTER PACK INTERVAL.)





IOWA DEPARTMENT OF NATURAL RESOURCES
MONITORING WELL/PIEZOMETER CONSTRUCTION DOCUMENTATION FORM

Disposal Site Name: IPL - Burlington Generating Station Permit No.: _____

Well or Piezometer No: MW-307

Dates Started: 12/16/15 Date Completed: 12/16/15

| A. SURVEYED LOCATIONS AND ELEVATIONS | B. SOIL BORING INFORMATION |
|-----------------------------------------------------------|-----------------------------------------------|
| Locations (\pm 0.5 ft): _____ | Name & Address of Construction Company: _____ |
| Specify corner of site: <u>SW of Parcel 16-29-300-006</u> | <u>Cascade Drilling, LP</u> |
| Distance & direction along boundary: <u>201' N</u> | <u>301 Alderson St</u> |
| Distance & direction from boundary to wall: <u>177' E</u> | <u>Schofield, WI 54476</u> |
| Elevations (\pm 0.01 ft MSL): _____ | Name of Driller: <u>Mike Mueller</u> |
| Ground Surface: <u>534.32</u> | Drilling Method: <u>4.25" HSA</u> |
| Top of protective casing: <u>537.54</u> | Drilling Fluid: <u>NA</u> |
| Top of well casing: _____ <u>536.96</u> | Bore Hole Diameter: <u>8.5 inch</u> |
| Benchmark elevation: _____ | Soil Sampling Method: <u>Spoon</u> |
| Benchmark description: _____ | Depth of Boring: <u>27 ft</u> |

| C. MONITORING WELL INSTALLATION | |
|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Casing material: _____ <u>PVC</u> | Placement method: <u>Gravity</u> |
| Length of casing: _____ <u>21 ft</u> | Volume: <u>6 cubic ft.</u> |
| Outside casing diameter: _____ <u>2.38"</u> | Backfill (if different from seal): _____ |
| Inside casing diameter: _____ <u>2"</u> | Material: _____ |
| Casing joint type: _____ <u>threaded</u> | Placement method: _____ |
| Casing/screen joint type: _____ <u>threaded</u> | Volume: _____ |
| Screen material: _____ <u>PVC</u> | Surface seal design: _____ |
| Screen opening size: _____ <u>0.010"</u> | Material of protective casing: <u>Steel 6 inch</u> |
| Screen length: _____ <u>5 ft</u> | Material of grout between protective casing and well casing: <u>sand</u> |
| Depth of well: _____ <u>27 ft</u> | Protective cap: _____ |
| Filter Pack: _____ | Material: <u>Steel, vented</u> |
| Material: _____ <u>Red Flint</u> | Vented: <input type="checkbox"/> Yes <input type="checkbox"/> No Locking: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| Grain size: _____ <u>#40</u> | Well Cap: _____ |
| Volume: _____ <u>2 cubic ft</u> | Material: <u>PVC</u> |
| Seal (minimum 3 ft length above filter pack): _____ | Vented: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Material: <u>Hole Plug 3/8 inch</u> | |

| D. GROUNDWATER MEASUREMENT (\pm 0.01 ft below top of inner well casing) | |
|-------------------------------------------------------------------------------------------------------|------------------------------------------|
| Water level: <u>13.34 ft</u> | Stabilization Time: <u><5 minutes</u> |
| Well development method: <u>Surged with block and pumped to reduce turbidity. 137 gallons pumped.</u> | |
| Average depth of frostline: <u>3.5'</u> | |

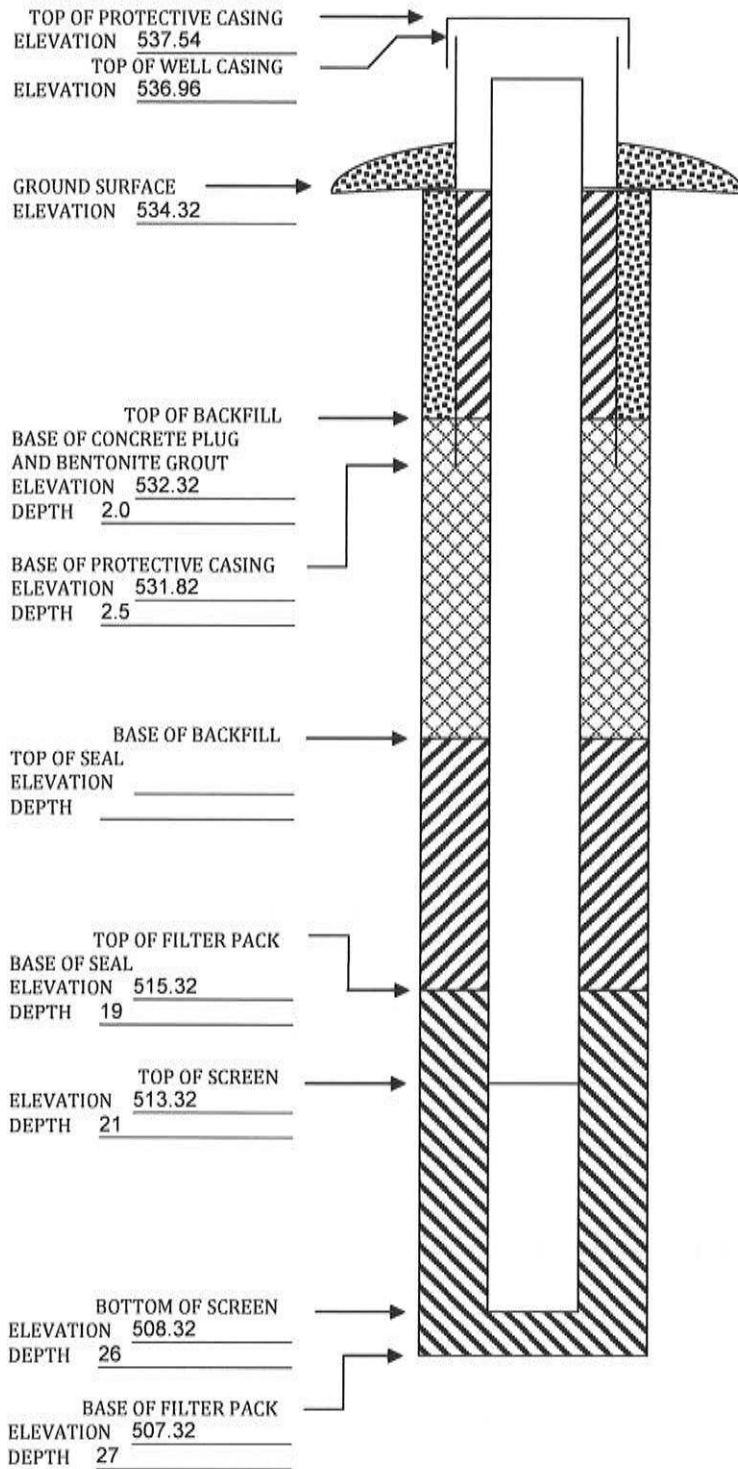
Attachments: Driller's log, Pipe schedules and grouting schedules. 8 1/2x11 inch map showing locations of all monitoring wells and piezometers.

Please mail completed for to: Iowa Department of Natural Resources, Land Quality Bureau, 502 E 9th St, Des Moines IA 50319-0034.

Questions? Call or Email: Nina Koger, Environmental Engineer Sr., 515-281-8986, Nina.Koger@dnr.iowa.gov

ELEVATIONS: ± 0.01 ft MSL
DEPTHS: ± 0.1 ft FROM GROUND SURFACE

SPACE TO ATTACH ENTIRE SOIL BORING LOG
(SHOW SCREENED INTERVAL AND FILTER PACK INTERVAL.)



MONITORING WELL / PIEZOMETER CONSTRUCTION DOCUMENTATION FORM

Disposal Site Name Burlington Generating Station Permit No. _____
Well or Piezometer No. MW-307A Dates Started 6/24/2020 Date Completed 7/1/2020

A. SURVEYED LOCATION AND ELEVATION OF POINT (+0.5 ft.)

Specify corner of site SW of Parcel 16-29-300-00 Distance and direction along boundary 201' N
Distance and direction from boundary to surface monitoring well 177' E
Elevation (+0.01 ft. MSL) _____
Ground Surface 533.94' Top of protective casing 536.67'
Top of well casing 536.22' Benchmark elevation _____
Benchmark description _____

B. SOIL BORING INFORMATION

Construction Company Name Roberts Environmental Drilling
Address 1107 S Mulberry St City, State, Zip Code Millstadt, IL 62260
Name of driller Jeff Crank
Drilling method Hollow Stem Auger Drilling fluid Water Bore Hole diameter 4.25"
Soil sampling method Split spoon Depth of boring 60'

C. MONITORING WELL INSTALLATION

| | |
|------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Casing material <u>Sch. 40 PVC</u> | Placement method <u>Pumped</u> |
| Length of casing <u>61.92'</u> | Volume <u>7, 50lbs bags (~115 gallons of grout)</u> |
| Outside casing diameter <u>2.4"</u> | Backfill (if different from seal): _____ |
| Inside casing diameter <u>2"</u> | Material <u>3/8" Bentonite chips</u> |
| Casing joint type <u>Threaded</u> | Placement method <u>Poured</u> |
| Casing/screen joint type <u>Threaded</u> | Volume <u>5, 50lbs bags</u> |
| Screen material <u>Sch. 40 PVC</u> | Surface seal design: <u>Stick-up</u> |
| Screen opening size <u>0.01</u> | Material of protective casing: <u>steel</u> |
| Screen length <u>5'</u> | Material of grout between protective casing and well casing: <u>Sand</u> |
| Depth of Well <u>59'</u> | Protective cap: _____ |
| Filter Pack: _____ | Material <u>Steel</u> |
| Material <u>Sand (FilterSil)</u> | Vented?: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Locking?: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N |
| Grain Size <u>18-23</u> | Well cap: <u>Lockable expanding well plug</u> |
| Volume <u>3, 50lbs bags</u> | Material <u>Plastic</u> |
| Seal (minimum 3 ft. length above filter pack): _____ | Vented?: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N |
| Material <u>Bentonite grout</u> | |

D. GROUNDWATER MEASUREMENT (± 0.01 foot below top of inner well casing)

Water level 14.37' Stabilization time <5 min
Well development method Surged with bailer and pumped
Average depth of frost line 4'

DRILLER'S CERTIFICATION

I certify under penalty of law I believe the information reported above is true, accurate, and complete.

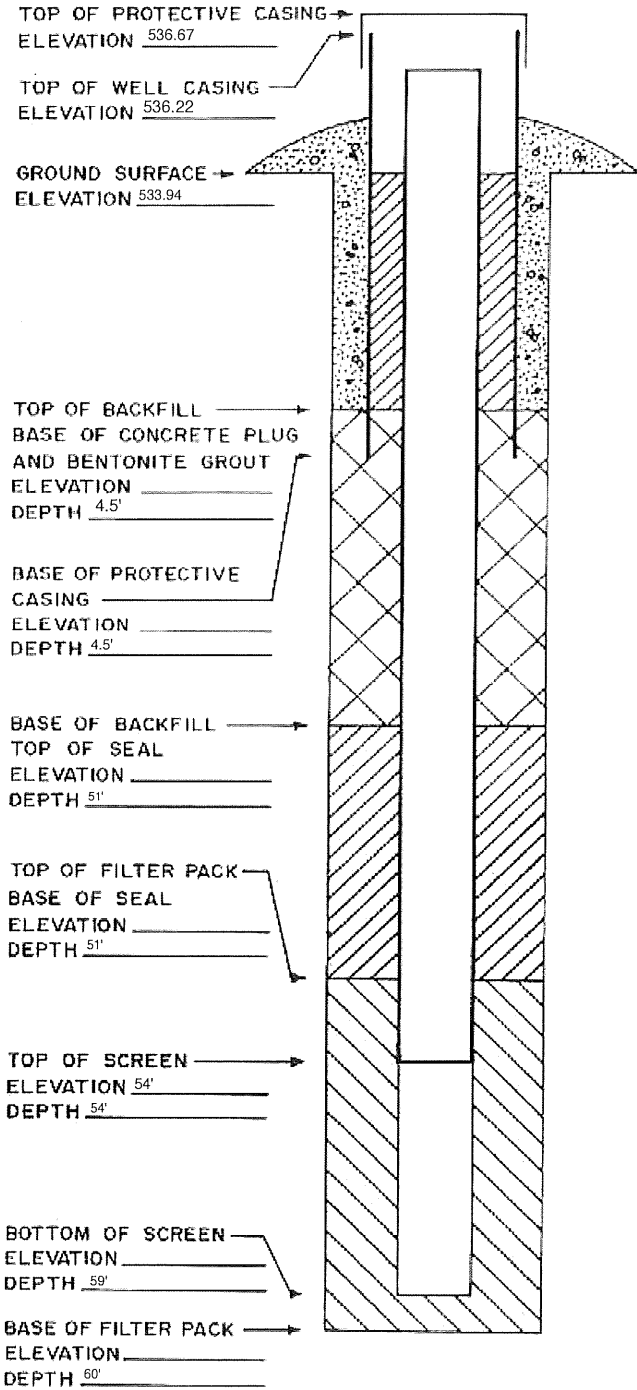
Signature *Jeff Crank* Certification # 8515 Date 9-16-20

Attachments: Driller's log. Pipe schedules and grouting schedules. 8 1/2 inch x 11 inch map showing locations of all monitoring wells and piezometers.

Please mail completed form to: Iowa Department of Natural Resources, Land Quality Bureau, 502 E. 9th St, Des Moines, IA 50319.
Questions? Call or Email: Nina Booker Environmental Engineer Sr., 515-725-8309, nina.booker@dnr.iowa.gov

ELEVATIONS: ± 0.01 FT. MSL
DEPTHS: ± 0.1 FT. FROM
GROUND SURFACE

SPACE TO ATTACH ENTIRE SOIL BORING LOG
(SHOW SCREENED INTERVAL AND FILTER PACK INTERVAL).





IOWA DEPARTMENT OF NATURAL RESOURCES
MONITORING WELL/PIEZOMETER CONSTRUCTION DOCUMENTATION FORM

Disposal Site Name: IPL - Burlington Generating Station Permit No.: _____

Well or Piezometer No: MW-308

Dates Started: 12/15/15 Date Completed: 12/16/15

| A. SURVEYED LOCATIONS AND ELEVATIONS | B. SOIL BORING INFORMATION |
|-----------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| Locations (\pm 0.5 ft): Specify corner of site: <u>SW of Parcel 16-29-300-006</u> | Name & Address of Construction Company: <u>Cascade Drilling, LP</u> |
| Distance & direction along boundary: <u>33' N</u> | <u>301 Alderson St</u> |
| Distance & direction from boundary to wall: <u>130' E</u> | <u>Schofield, WI 54476</u> |
| Elevations (\pm 0.01 ft MSL): | Name of Driller: <u>Mike Mueller</u> |
| Ground Surface: <u>534.89</u> | Drilling Method: <u>4.25" HSA</u> |
| Top of protective casing: <u>537.74</u> | Drilling Fluid: <u>NA</u> |
| Top of well casing: <u>537.20</u> | Bore Hole Diameter: <u>8.5 inch</u> |
| Benchmark elevation: _____ | Soil Sampling Method: <u>Spoon</u> |
| Benchmark description: _____ | Depth of Boring: <u>29.5 ft</u> |

| C. MONITORING WELL INSTALLATION | |
|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Casing material: <u>PVC</u> | Placement method: <u>Gravity</u> |
| Length of casing: <u>23 ft</u> | Volume: <u>6 cubic ft.</u> |
| Outside casing diameter: <u>2.38"</u> | Backfill (if different from seal): _____ |
| Inside casing diameter: <u>2"</u> | Material: _____ |
| Casing joint type: <u>threaded</u> | Placement method: _____ |
| Casing/screen joint type: <u>threaded</u> | Volume: _____ |
| Screen material: <u>PVC</u> | Surface seal design: _____ |
| Screen opening size: <u>0.010"</u> | Material of protective casing: <u>Steel 6 inch</u> |
| Screen length: <u>5 ft</u> | Material of grout between protective casing and well casing: <u>sand</u> |
| Depth of well: <u>28 ft</u> | Protective cap: _____ |
| Filter Pack: _____ | Material: <u>steel, vented</u> |
| Material: <u>Red Flint</u> | Vented: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Locking: <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Grain size: <u>#40</u> | Well Cap: _____ |
| Volume: <u>2 cubic ft.</u> | Material: <u>PVC</u> |
| Seal (minimum 3 ft length above filter pack): _____ | Vented: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Material: <u>Hole Plug 3/8 inch</u> | |

| D. GROUNDWATER MEASUREMENT (\pm 0.01 ft below top of inner well casing) | |
|-------------------------------------------------------------------------------------------------------|------------------------------------------|
| Water level: <u>13.95</u> | Stabilization Time: <u><5 minutes</u> |
| Well development method: <u>Surged with block and pumped to reduce turbidity. 151 gallons pumped.</u> | |
| Average depth of frostline: <u>3.5'</u> | |

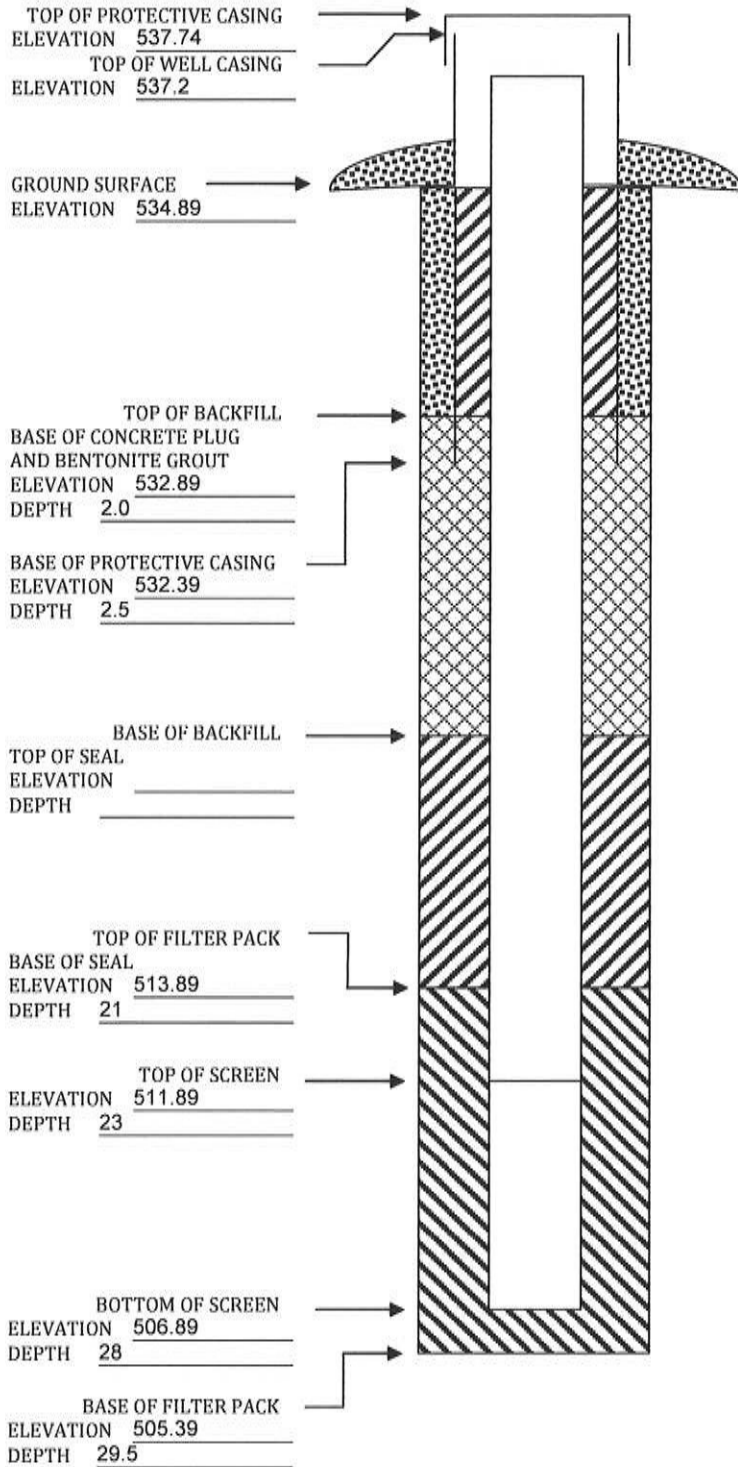
Attachments: Driller's log. Pipe schedules and grouting schedules. 8 1/2x11 inch map showing locations of all monitoring wells and piezometers.

Please mail completed for to: Iowa Department of Natural Resources, Land Quality Bureau, 502 E 9th St, Des Moines IA 50319-0034.

Questions? Call or Email: Nina Koger, Environmental Engineer Sr., 515-281-8986, Nina.Koger@dnr.iowa.gov

ELEVATIONS: ± 0.01 ft MSL
DEPTHS: ± 0.1 ft FROM GROUND SURFACE

SPACE TO ATTACH ENTIRE SOIL BORING LOG
(SHOW SCREENED INTERVAL AND FILTER PACK INTERVAL.)





IOWA DEPARTMENT OF NATURAL RESOURCES
MONITORING WELL/PIEZOMETER CONSTRUCTION DOCUMENTATION FORM

Disposal Site Name: IPL - Burlington Generating Station Permit No.: _____
 Well or Piezometer No: MW-309
 Dates Started: 3/1/16 Date Completed: 3/1/16

| A. SURVEYED LOCATIONS AND ELEVATIONS | B. SOIL BORING INFORMATION |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Locations (± 0.5 ft): Specify corner of site: <u>NE of Parcel 16-29-300-007</u> Distance & direction along boundary: <u>141' S</u> Distance & direction from boundary to wall: <u>123' W</u> | Name & Address of Construction Company: <u>Direct Push Analytical Corp</u> <u>4N969 Old LaFox Road, Unit E</u> <u>St. Charles, IL 60175</u> |
| Elevations (± 0.01 ft MSL): Ground Surface: <u>534.11</u> Top of protective casing: <u>536.70</u> Top of well casing: _____ <u>536.42</u> Benchmark elevation: _____ Benchmark description: _____ | Name of Driller: <u>Kevin Collins</u> Drilling Method: <u>Direct Push/4.25" HSA</u> Drilling Fluid: <u>NA</u> Bore Hole Diameter: <u>8.5 inch</u> Soil Sampling Method: <u>Macro Core</u> Depth of Boring: <u>25 ft bgs</u> |

| C. MONITORING WELL INSTALLATION | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Casing material: <u>PVC</u> Length of casing: <u>20</u> Outside casing diameter: <u>2.38"</u> Inside casing diameter: <u>2"</u> Casing joint type: <u>threaded</u> Casing/screen joint type: <u>threaded</u> Screen material: <u>PVC with slip cap and 4 stainless screws</u> Screen opening size: <u>0.010"</u> Screen length: <u>5 ft</u> Depth of well: <u>25</u> Filter Pack: Material: <u>NSF R.W Sidley Inc.</u> Grain size: <u>10/20</u> Volume: <u>1.50 cubic ft.</u> Seal (minimum 3 ft length above filter pack): Material: <u>Black Hills Bentonite 3/8 inch</u> | Placement method: <u>Gravity</u> Volume: <u>2 cubic ft.</u> Backfill (if different from seal): Material: <u>3/8 Hole Plug</u> Placement method: <u>Gravity</u> Volume: _____ Surface seal design: Material of protective casing: <u>Steel 4 inch</u> Material of grout between protective casing and well casing: <u>sand</u> Protective cap: Material: <u>steel, vented</u> Vented: <input type="checkbox"/> Yes <input type="checkbox"/> No Locking: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Well Cap: Material: <u>PVC</u> Vented: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |

| D. GROUNDWATER MEASUREMENT (± 0.01 ft below top of inner well casing) |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Water level: <u>13.18</u> Stabilization Time: <u><5 minutes</u> Well development method: <u>Surged with block and pumped to reduce turbidity. 140 gallons pumped.</u> Average depth of frostline: _____ |

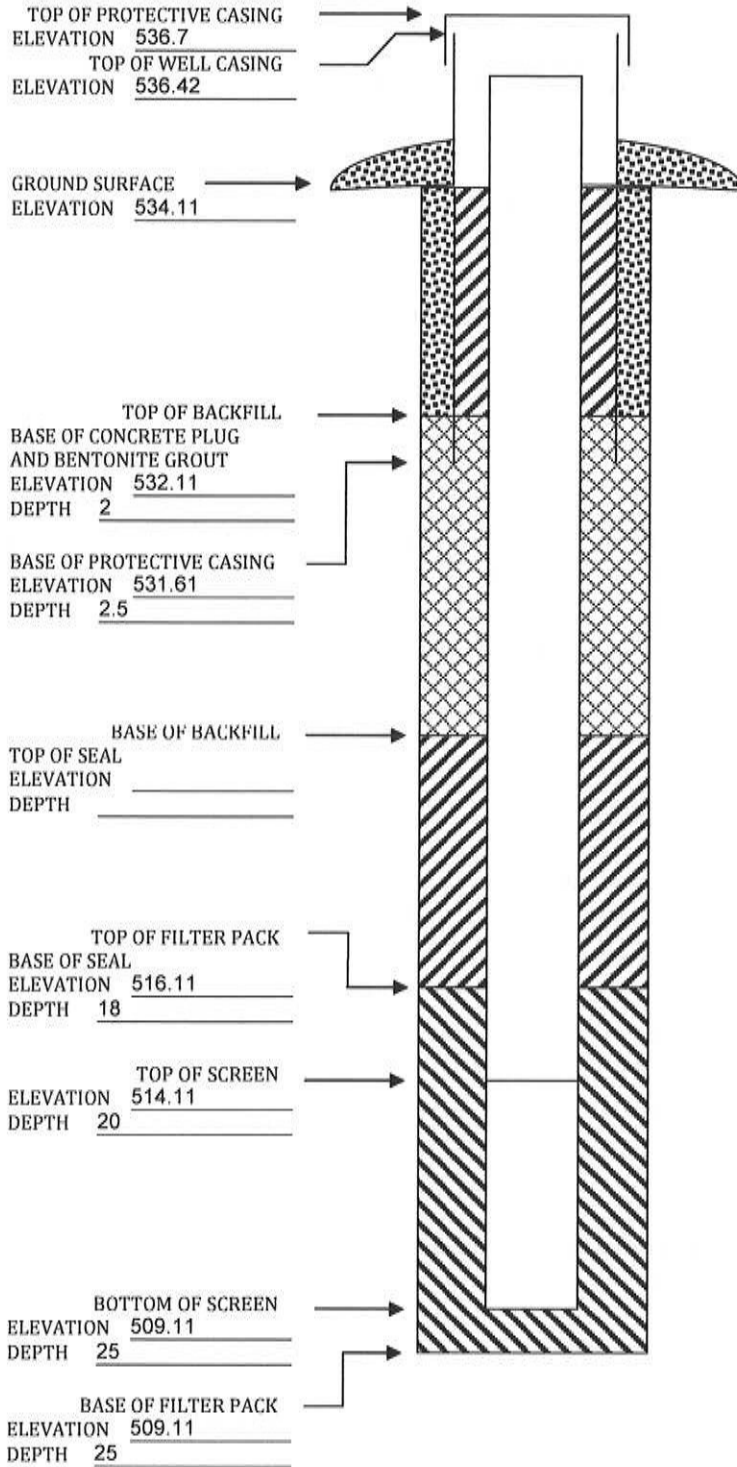
Attachments: Driller's log. Pipe schedules and grouting schedules. 8 1/2x11 inch map showing locations of all monitoring wells and piezometers.

Please mail completed for to: Iowa Department of Natural Resources, Land Quality Bureau, 502 E 9th St, Des Moines IA 50319-0034.

Questions? Call or Email: Nina Koger, Environmental Engineer Sr., 515-281-8986, Nina.Koger@dnr.iowa.gov

ELEVATIONS: ± 0.01 ft MSL
DEPTHS: ± 0.1 ft FROM GROUND SURFACE

SPACE TO ATTACH ENTIRE SOIL BORING LOG
(SHOW SCREENED INTERVAL AND FILTER PACK INTERVAL.)





IOWA DEPARTMENT OF NATURAL RESOURCES
MONITORING WELL/PIEZOMETER CONSTRUCTION DOCUMENTATION FORM

Disposal Site Name: IPL - Burlington Generating Station Permit No.: _____

Well or Piezometer No: MW-310

Dates Started: 3/1/16 Date Completed: 3/1/16

| A. SURVEYED LOCATIONS AND ELEVATIONS | B. SOIL BORING INFORMATION |
|------------------------------------------------------------------|-----------------------------------------------|
| Locations (± 0.5 ft): _____ | Name & Address of Construction Company: _____ |
| Specify corner of site: <u>Sullivan Slough RD West ROW</u> | <u>Direct Push Analytical Corp</u> |
| Distance & direction along boundary: <u>65' S from RR Tracks</u> | <u>4N969 Old LaFox Road, Unit E</u> |
| Distance & direction from boundary to wall: <u>21' W</u> | <u>St. Charles, IL 60175</u> |
| Elevations (± 0.01 ft MSL): _____ | Name of Driller: <u>Kevin Collins</u> |
| Ground Surface: <u>532.23</u> | Drilling Method: <u>Direct Push/4.25" HSA</u> |
| Top of protective casing: <u>532.23</u> | Drilling Fluid: <u>NA</u> |
| Top of well casing: _____ <u>531.99</u> | Bore Hole Diameter: <u>8.5 inch</u> |
| Benchmark elevation: _____ | Soil Sampling Method: <u>Macro Core</u> |
| Benchmark description: _____ | Depth of Boring: <u>24 ft bgs</u> |

| C. MONITORING WELL INSTALLATION | |
|------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Casing material: _____ <u>PVC</u> | Placement method: <u>Gravity</u> |
| Length of casing: _____ <u>14</u> | Volume: <u>2.7 cubic ft.</u> |
| Outside casing diameter: _____ <u>2.38"</u> | Backfill (if different from seal): _____ |
| Inside casing diameter: _____ <u>2"</u> | Material: _____ |
| Casing joint type: _____ <u>threaded</u> | Placement method: _____ |
| Casing/screen joint type: _____ <u>threaded</u> | Volume: _____ |
| Screen material: <u>PVC with slip cap and 4 stainless screws</u> | Surface seal design: _____ |
| Screen opening size: _____ <u>0.010"</u> | Material of protective casing: <u>Steel 4 inch</u> |
| Screen length: _____ <u>5 ft</u> | Material of grout between protective casing and well casing: <u>sand</u> |
| Depth of well: _____ <u>19 ft bgs</u> | Protective cap: _____ |
| Filter Pack: _____ | Material: <u>Steel, not vented, flush-mount</u> |
| Material: _____ <u>NSF R.W Sidley Inc.</u> | Vented: <input type="checkbox"/> Yes <input type="checkbox"/> No Locking: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| Grain size: _____ <u>10/20</u> | Well Cap: _____ |
| Volume: _____ <u>1 cubic ft.</u> | Material: <u>PVC</u> |
| Seal (minimum 3 ft length above filter pack): _____ | Vented: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Material: <u>Black Hills Bentonite 3/8 inch</u> | |

| D. GROUNDWATER MEASUREMENT (± 0.01 ft below top of inner well casing) | |
|---------------------------------------------------------------------------------------------------------|------------------------------------------|
| Water level: <u>6.58</u> | Stabilization Time: <u><5 minutes</u> |
| Well development method: <u>Surged with block and pumped to reduce turbidity. 112.5 gallons pumped.</u> | |
| Average depth of frostline: <u>3.5</u> | |

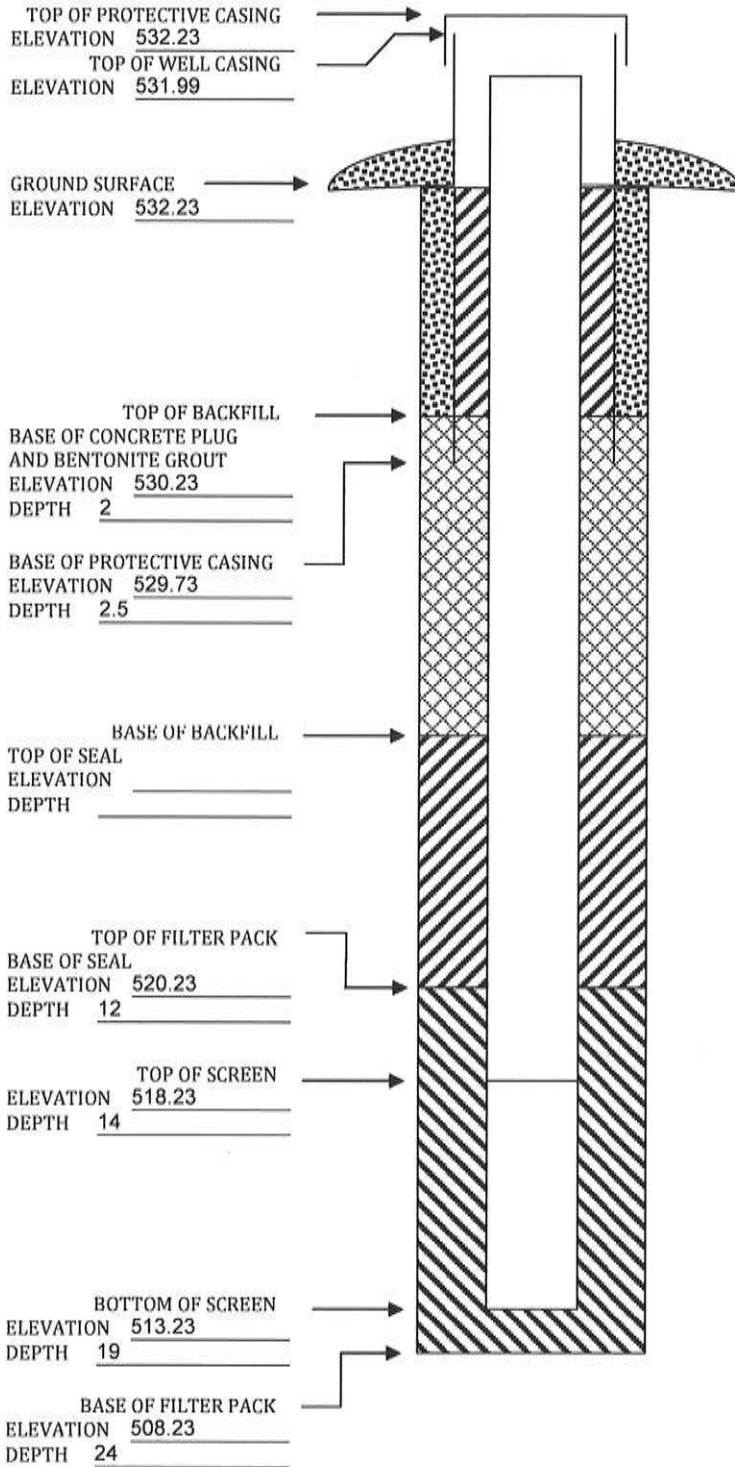
Attachments: Driller's log, Pipe schedules and grouting schedules. 8 1/2x11 inch map showing locations of all monitoring wells and piezometers.

Please mail completed for to: Iowa Department of Natural Resources, Land Quality Bureau, 502 E 9th St, Des Moines IA 50319-0034.

Questions? Call or Email: Nina Koger, Environmental Engineer Sr., 515-281-8986, Nina.Koger@dnr.iowa.gov

ELEVATIONS: ± 0.01 ft MSL
DEPTHS: ± 0.1 ft FROM GROUND SURFACE

SPACE TO ATTACH ENTIRE SOIL BORING LOG
(SHOW SCREENED INTERVAL AND FILTER PACK INTERVAL.)



MONITORING WELL / PIEZOMETER CONSTRUCTION DOCUMENTATION FORM

Disposal Site Name Burlington Generating Station Permit No. _____
Well or Piezometer No. MW-310A Dates Started 6/25/2020 Date Completed 6/26/2020

A. SURVEYED LOCATION AND ELEVATION OF POINT (+0.5 ft.)

Specify corner of site Sullivan Slough Rd WestROW Distance and direction along boundary 75' S from RR Tracks
Distance and direction from boundary to surface monitoring well 21' W
Elevation (+0.01 ft. MSL) _____
Ground Surface 532.91' Top of protective casing 532.91'
Top of well casing 532.53' Benchmark elevation _____
Benchmark description _____

B. SOIL BORING INFORMATION

Construction Company Name Roberts Environmental Drilling
Address 1107 S Mulberry St City, State, Zip Code Millstadt, IL 62260
Name of driller Jeff Crank
Drilling method Hollow Stem Auger Drilling fluid Water Bore Hole diameter 4.25"
Soil sampling method Split spoon Depth of boring 50'

C. MONITORING WELL INSTALLATION

| | |
|------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Casing material <u>Sch. 40 PVC</u> | Placement method <u>Pumped</u> |
| Length of casing <u>49.4'</u> | Volume <u>8, 50lbs bags (~130 gallons of grout)</u> |
| Outside casing diameter <u>2.4"</u> | Backfill (if different from seal): _____ |
| Inside casing diameter <u>2"</u> | Material <u>3/8" Bentonite chips</u> |
| Casing joint type <u>Threaded</u> | Placement method <u>Poured</u> |
| Casing/screen joint type <u>Threaded</u> | Volume <u>23, 50lbs bags</u> |
| Screen material <u>Sch. 40 PVC</u> | Surface seal design: <u>Flush mount</u> |
| Screen opening size <u>0.01</u> | Material of protective casing: <u>steel</u> |
| Screen length <u>5'</u> | Material of grout between protective casing and well casing: <u>Bentonite chips</u> |
| Depth of Well <u>49'</u> | Protective cap: _____ |
| Filter Pack: _____ | Material <u>Steel</u> |
| Material <u>Sand (FilterSil)</u> | Vented?: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N Locking?: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N |
| Grain Size <u>18-23</u> | Well cap: <u>Lockable expanding well plug</u> |
| Volume <u>3, 50lbs bags</u> | Material <u>Plastic</u> |
| Seal (minimum 3 ft. length above filter pack): _____ | Vented?: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N |
| Material <u>Bentonite grout</u> | |

D. GROUNDWATER MEASUREMENT (± 0.01 foot below top of inner well casing)

Water level 8.77' Stabilization time >48 hrs
Well development method Surged with bailer and pumped
Average depth of frost line 4'

DRILLER'S CERTIFICATION

I certify under penalty of law I believe the information reported above is true, accurate, and complete.

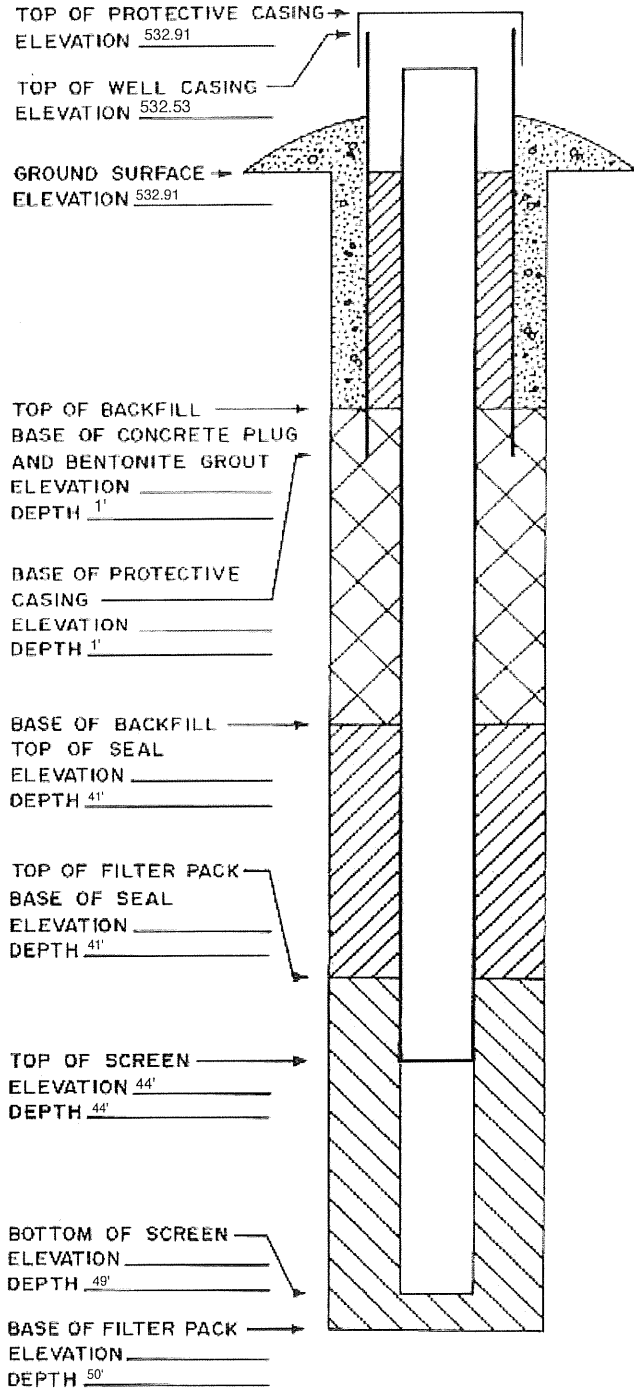
Signature *Jeff Crank* Certification # 8515 Date 9-16-20

Attachments: Driller's log. Pipe schedules and grouting schedules. 8 1/2 inch x 11 inch map showing locations of all monitoring wells and piezometers.

Please mail completed form to: Iowa Department of Natural Resources, Land Quality Bureau, 502 E. 9th St, Des Moines, IA 50319.
Questions? Call or Email: Nina Booker Environmental Engineer Sr., 515-725-8309, nina.booker@dnr.iowa.gov

ELEVATIONS: ± 0.01 FT. MSL
DEPTHS: ± 0.1 FT. FROM
GROUND SURFACE

SPACE TO ATTACH ENTIRE SOIL BORING LOG
(SHOW SCREENED INTERVAL AND FILTER PACK INTERVAL).





IOWA DEPARTMENT OF NATURAL RESOURCES
MONITORING WELL/PIEZOMETER CONSTRUCTION DOCUMENTATION FORM

Disposal Site Name: IPL - Burlington Generating Station Permit No.: _____

Well or Piezometer No: MW-311

Dates Started: 3/1/16 Date Completed: 3/1/16

| A. SURVEYED LOCATIONS AND ELEVATIONS | B. SOIL BORING INFORMATION |
|-------------------------------------------------------------------|-----------------------------------------------|
| Locations (\pm 0.5 ft): _____ | Name & Address of Construction Company: _____ |
| Specify corner of site: <u>Sullivan Slough RD West ROW</u> | <u>Direct Push Analytical Corp</u> |
| Distance & direction along boundary: <u>207' S from RR Tracks</u> | <u>4N969 Old LaFox Road, Unit E</u> |
| Distance & direction from boundary to wall: <u>18' W</u> | <u>St. Charles, IL 60175</u> |
| Elevations (\pm 0.01 ft MSL): _____ | Name of Driller: <u>Kevin Collins</u> |
| Ground Surface: <u>532.69</u> | Drilling Method: <u>Direct Push/4.25" HSA</u> |
| Top of protective casing: <u>532.69</u> | Drilling Fluid: <u>NA</u> |
| Top of well casing: _____ <u>532.32</u> | Bore Hole Diameter: <u>8.5 inch</u> |
| Benchmark elevation: _____ | Soil Sampling Method: <u>Macro Core</u> |
| Benchmark description: _____ | Depth of Boring: <u>32 ft bgs</u> |

| C. MONITORING WELL INSTALLATION | |
|------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Casing material: _____ <u>PVC</u> | Placement method: <u>Gravity</u> |
| Length of casing: _____ <u>18</u> | Volume: <u>3.7 cubic ft.</u> |
| Outside casing diameter: _____ <u>2.38"</u> | Backfill (if different from seal): _____ |
| Inside casing diameter: _____ <u>2"</u> | Material: _____ |
| Casing joint type: _____ <u>threaded</u> | Placement method: _____ |
| Casing/screen joint type: _____ <u>threaded</u> | Volume: _____ |
| Screen material: <u>PVC with slip cap and 4 stainless screws</u> | Surface seal design: _____ |
| Screen opening size: _____ <u>0.010"</u> | Material of protective casing: <u>Steel 4 inch</u> |
| Screen length: _____ <u>5</u> | Material of grout between protective casing and well casing: <u>sand</u> |
| Depth of well: _____ <u>23</u> | Protective cap: _____ |
| Filter Pack: _____ | Material: <u>steel, not vented, flush-mount</u> |
| Material: _____ <u>NSF R.W Sidley Inc.</u> | Vented: <input type="checkbox"/> Yes <input type="checkbox"/> No Locking: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| Grain size: _____ <u>10/20</u> | Well Cap: _____ |
| Volume: _____ <u>1 cubic ft.</u> | Material: <u>PVC</u> |
| Seal (minimum 3 ft length above filter pack): _____ | Vented: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Material: <u>Black Hills Bentonite 3/8 inch</u> | |

| D. GROUNDWATER MEASUREMENT (\pm 0.01 ft below top of inner well casing) | |
|------------------------------------------------------------------------------------------------------|------------------------------------------|
| Water level: <u>8.34 ft</u> | Stabilization Time: <u><5 minutes</u> |
| Well development method: <u>Surged with block and pumped to reduce turbidity. 99 gallons pumped.</u> | |
| Average depth of frostline: <u>3.5'</u> | |

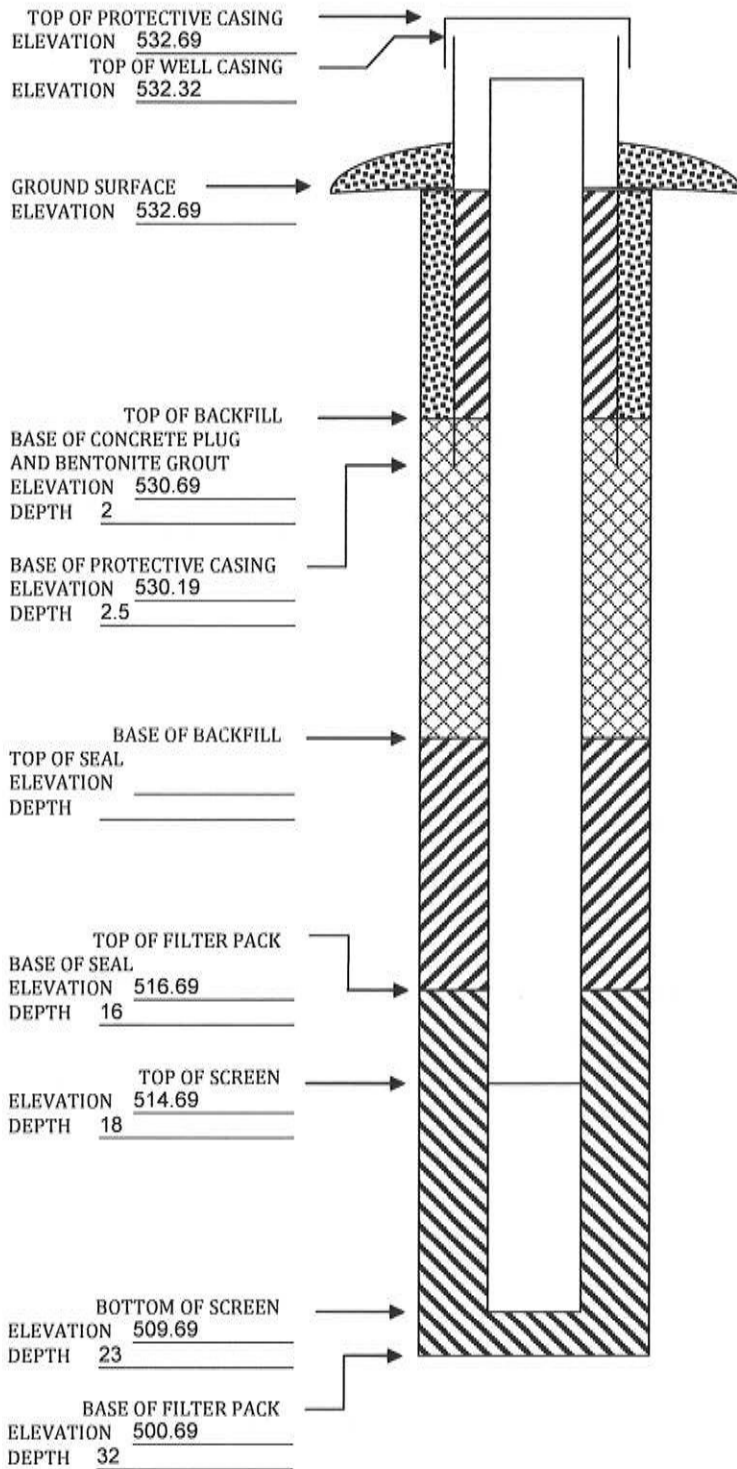
Attachments: Driller's log, Pipe schedules and grouting schedules. 8 1/2x11 inch map showing locations of all monitoring wells and piezometers.

Please mail completed for to: Iowa Department of Natural Resources, Land Quality Bureau, 502 E 9th St, Des Moines IA 50319-0034.

Questions? Call or Email: Nina Koger, Environmental Engineer Sr., 515-281-8986, Nina.Koger@dnr.iowa.gov

ELEVATIONS: ± 0.01 ft MSL
DEPTHS: ± 0.1 ft FROM GROUND SURFACE

SPACE TO ATTACH ENTIRE SOIL BORING LOG
(SHOW SCREENED INTERVAL AND FILTER PACK INTERVAL.)



MONITORING WELL / PIEZOMETER CONSTRUCTION DOCUMENTATION FORM

Disposal Site Name IPL Burlington Generating Station Permit No. _____
Well or Piezometer No. MW312 Dates Started 5/20/2019 Date Completed 5/21/2019

A. SURVEYED LOCATION AND ELEVATION OF POINT (+0.5 ft.)

Specify corner of site SE Distance and direction along boundary 1,400 N
Distance and direction from boundary to surface monitoring well 200 W
Elevation (+0.01 ft. MSL) _____
Ground Surface 533.80 Top of protective casing 536.83
Top of well casing 536.43 Benchmark elevation _____
Benchmark description _____

B. SOIL BORING INFORMATION

Construction Company Name Roberts Environmental Drilling, Inc.
Address 1107 S Mullberry St. City, State, Zip Code Millstadt, IL 62260
Name of driller Jeff Crank
Drilling method 4.25" HSA Drilling fluid _____ Bore Hole diameter 8.5"
Soil sampling method split spoon Depth of boring 26'

C. MONITORING WELL INSTALLATION

| | |
|------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Casing material <u>PVC</u> | Placement method <u>gravity</u> |
| Length of casing <u>27.65</u> | Volume <u>5 cu. ft.</u> |
| Outside casing diameter <u>2.4"</u> | Backfill (if different from seal): _____ |
| Inside casing diameter <u>2.0"</u> | Material _____ |
| Casing joint type <u>threaded</u> | Placement method _____ |
| Casing/screen joint type <u>threaded</u> | Volume _____ |
| Screen material <u>PVC</u> | Surface seal design: <u>Concrete</u> |
| Screen opening size <u>0.01"</u> | Material of protective casing: <u>Steel</u> |
| | Material of grout between protective casing and well casing: <u>Bentonite</u> |
| Screen length <u>5'</u> | Protective cap: _____ |
| Depth of Well <u>25'</u> | Material <u>Steel</u> |
| Filter Pack: | Vented?: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Locking?: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N |
| Material <u>filter sand</u> | Well cap: <u>Low-flow purge cap</u> |
| Grain Size <u>#5</u> | Material <u>Plastic</u> |
| Volume <u>3 cu. ft.</u> | Vented?: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N |
| Seal (minimum 3 ft. length above filter pack): _____ | |
| Material <u>Bentonite chips</u> | |

D. GROUNDWATER MEASUREMENT (+0.01 foot below top of inner well casing)

Water level 4.85 Stabilization time < 1 hr
Well development method Surged and pumped to remove turbidity
Average depth of frost line 4 ft

DRILLER'S CERTIFICATION

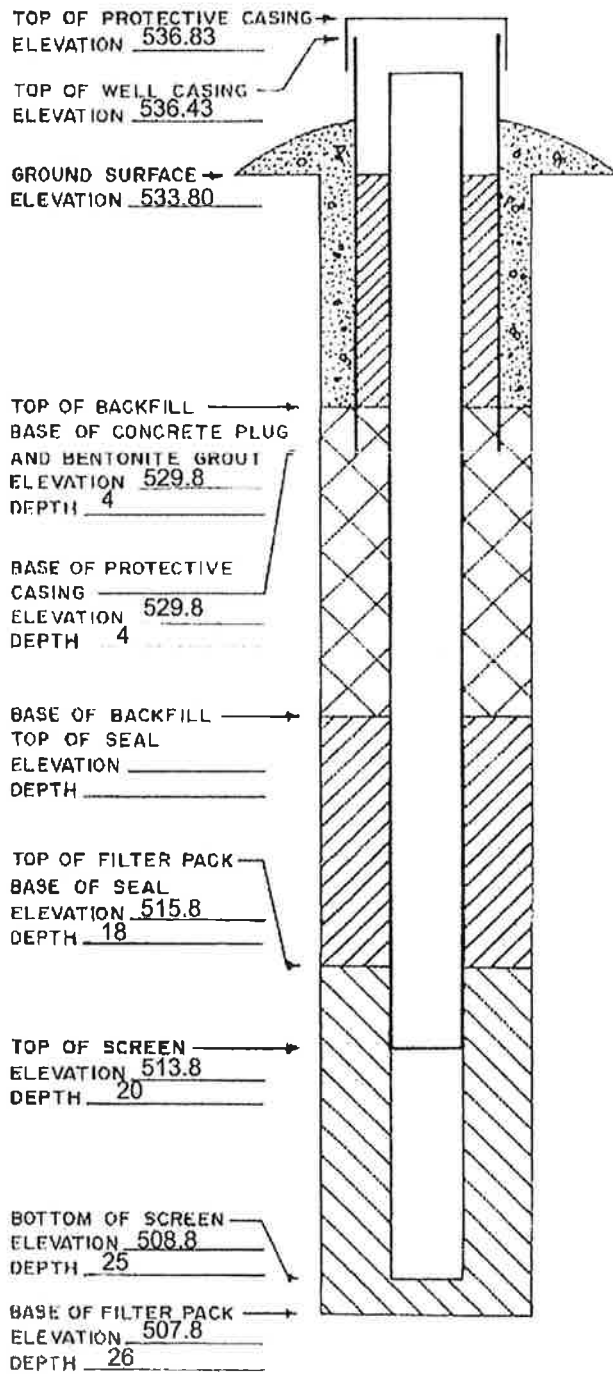
I certify under penalty of law I believe the information reported above is true, accurate, and complete.

Signature *Jeff Crank* Certification # 8515 Date 8/8/2019

Attachments: Driller's log. Pipe schedules and grouting schedules. 8 1/2 inch x 11 inch map showing locations of all monitoring wells and piezometers.
Please mail completed form to: Iowa Department of Natural Resources, Land Quality Bureau, 502 E. 9th St, Des Moines, IA 50319.
Questions? Call or Email: Nina Booker Environmental Engineer Sr., 515-725-8309, nina.booker@dnr.iowa.gov
09/2017 cmc DNR Form 542-1277

ELEVATIONS: ± 0.01 FT. MSL
DEPTHS: ± 0.1 FT. FROM
GROUND SURFACE

SPACE TO ATTACH ENTIRE SOIL BORING LOG
(SHOW SCREENED INTERVAL AND FILTER PACK INTERVAL).



MONITORING WELL / PIEZOMETER CONSTRUCTION DOCUMENTATION FORM

Disposal Site Name IPL Burlington Generating Station Permit No. _____
Well or Piezometer No. MW313 Dates Started 5/21/2019 Date Completed 5/22/2019

A. SURVEYED LOCATION AND ELEVATION OF POINT (+0.5 ft.)

Specify corner of site SE Distance and direction along boundary 890 N
Distance and direction from boundary to surface monitoring well 130 E
Elevation (+0.01 ft. MSL) _____
Ground Surface 533.97 Top of protective casing 536.18
Top of well casing 535.82 Benchmark elevation _____
Benchmark description _____

B. SOIL BORING INFORMATION

Construction Company Name Roberts Environmental Drilling, Inc.
Address 1107 S Mullberry St. City, State, Zip Code Millstadt, IL 62260
Name of driller Jeff Crank
Drilling method 4.25" HSA Drilling fluid water Bore Hole diameter 8.5"
Soil sampling method split spoon Depth of boring 32'

C. MONITORING WELL INSTALLATION

Casing material PVC Placement method gravity
Length of casing 32.99' Volume 7 cu. ft.
Outside casing diameter 2.4" Backfill (if different from seal): _____
Inside casing diameter 2.0" Material _____
Casing joint type threaded Placement method _____
Casing/screen joint type threaded Volume _____
Screen material PVC Surface seal design: Concrete
Screen opening size 0.01" Material of protective casing: Steel
Material of grout between
protective casing and well casing: Bentonite
Protective cap: _____
Material steel
Vented?: Y N Locking?: Y N
Well cap: Low-flow purge cap
Material Plastic
Vented?: Y N
Screen length 5'
Depth of Well 31'
Filter Pack:
Material filter sand
Grain Size #5
Volume 3 cu. ft.
Seal (minimum 3 ft. length above filter pack): _____
Material Bentonite chips

D. GROUNDWATER MEASUREMENT (+0.01 foot below top of inner well casing)

Water level 4.25 Stabilization time < 1 hr
Well development method Surged and pumped to remove turbidity
Average depth of frost line 4 ft

DRILLER'S CERTIFICATION

I certify under penalty of law I believe the information reported above is true, accurate, and complete.

Signature  Certification # 8515 Date 8/8/2019

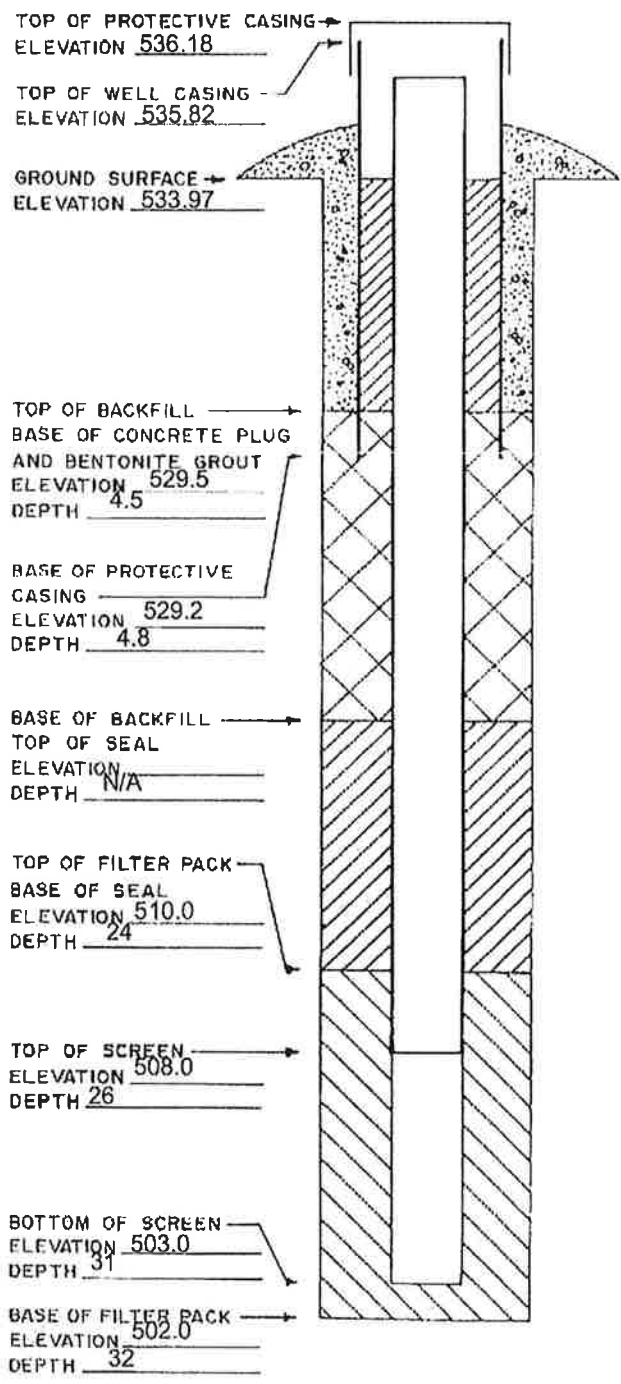
Attachments: Driller's log. Pipe schedules and grouting schedules. 8 1/2 inch x 11 inch map showing locations of all monitoring wells and piezometers.

Please mail completed form to: Iowa Department of Natural Resources, Land Quality Bureau, 502 E. 9th St, Des Moines, IA 50319.

Questions? Call or Email: Nina Booker Environmental Engineer Sr., 515-725-8309, nina.booker@dnr.iowa.gov

ELEVATIONS: ± 0.01 FT. MSL
 DEPTHS: ± 0.1 FT. FROM
 GROUND SURFACE

SPACE TO ATTACH ENTIRE SOIL BORING LOG
 (SHOW SCREENED INTERVAL AND FILTER PACK INTERVAL).



MONITORING WELL / PIEZOMETER CONSTRUCTION DOCUMENTATION FORM

Disposal Site Name Burlington Generating Station Permit No. _____
Well or Piezometer No. MW-313A Dates Started 6/23/2020 Date Completed 6/30/2020

A. SURVEYED LOCATION AND ELEVATION OF POINT (+0.5 ft.)

Specify corner of site SE Distance and direction along boundary 890 N
Distance and direction from boundary to surface monitoring well 130 E
Elevation (+0.01 ft. MSL) _____
Ground Surface 529.35' Top of protective casing 532.03'
Top of well casing 531.63' Benchmark elevation _____
Benchmark description _____

B. SOIL BORING INFORMATION

Construction Company Name Roberts Environmental Drilling
Address 1107 S Mulberry St City, State, Zip Code Millstadt, IL 62260
Name of driller Jeff Crank
Drilling method Hollow Stem Auger Drilling fluid Water Bore Hole diameter 4.25"
Soil sampling method Split spoon Depth of boring 62'

C. MONITORING WELL INSTALLATION

| | |
|------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Casing material <u>Sch. 40 PVC</u> | Placement method <u>Pumped</u> |
| Length of casing <u>63.38'</u> | Volume <u>9, 50lbs bags (~150 gallons of grout)</u> |
| Outside casing diameter <u>2.4"</u> | Backfill (if different from seal): _____ |
| Inside casing diameter <u>2"</u> | Material <u>3/8" Bentonite chips</u> |
| Casing joint type <u>Threaded</u> | Placement method <u>Poured</u> |
| Casing/screen joint type <u>Threaded</u> | Volume <u>3, 50lbs bags</u> |
| Screen material <u>Sch. 40 PVC</u> | Surface seal design: <u>Concrete</u> |
| Screen opening size <u>0.01</u> | Material of protective casing: <u>steel</u> |
| Screen length <u>5'</u> | Material of grout between protective casing and well casing: <u>Bentonite chips</u> |
| Depth of Well <u>61'</u> | Protective cap: _____ |
| Filter Pack: _____ | Material <u>Steel</u> |
| Material <u>Sand (FilterSil)</u> | Vented?: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N Locking?: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N |
| Grain Size <u>18-23</u> | Well cap: <u>Lockable expanding well plug</u> |
| Volume <u>2, 50lbs bags</u> | Material <u>Plastic</u> |
| Seal (minimum 3 ft. length above filter pack): _____ | Vented?: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N |
| Material <u>Bentonite grout</u> | |

D. GROUNDWATER MEASUREMENT (± 0.01 foot below top of inner well casing)

Water level 14.41' Stabilization time < 5 min
Well development method Surged with bailer and pumped
Average depth of frost line 4'

DRILLER'S CERTIFICATION

I certify under penalty of law I believe the information reported above is true, accurate, and complete.

Signature Jeff Crank Certification # 8515 Date 9-16-20

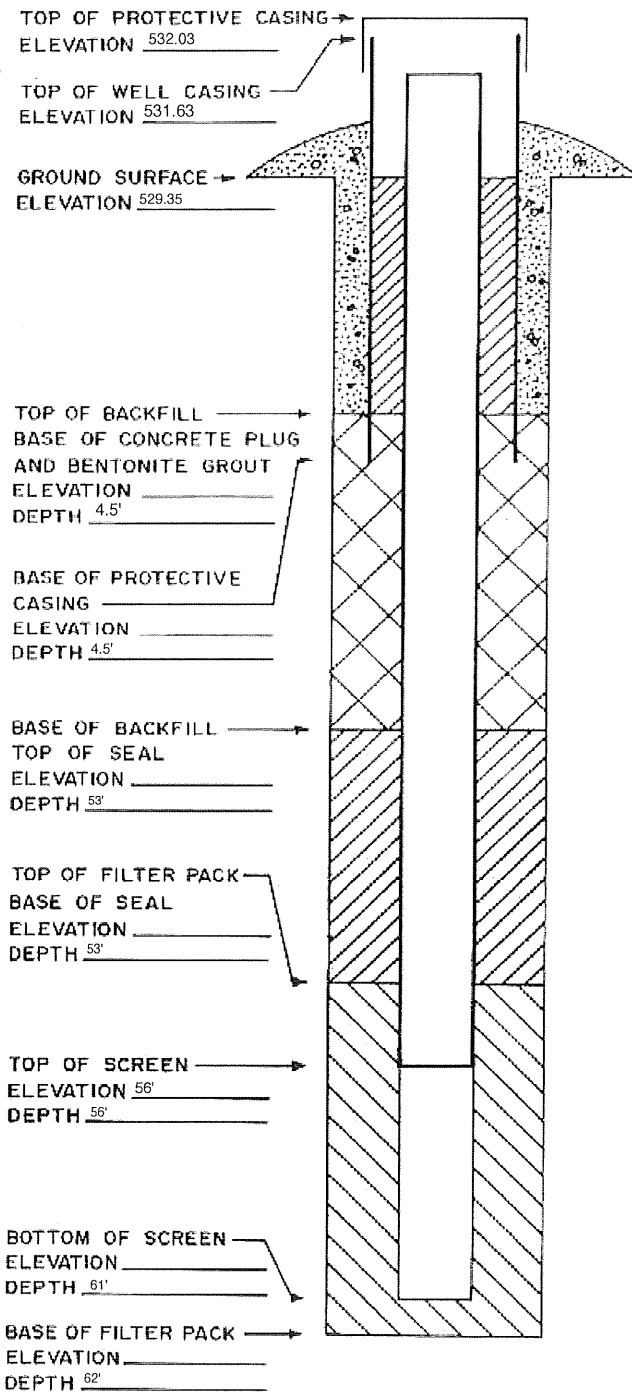
Attachments: Driller's log. Pipe schedules and grouting schedules. 8 1/2 inch x 11 inch map showing locations of all monitoring wells and piezometers.

Please mail completed form to: Iowa Department of Natural Resources, Land Quality Bureau, 502 E. 9th St, Des Moines, IA 50319.

Questions? Call or Email: Nina Booker Environmental Engineer Sr., 515-725-8309, nina.booker@dnr.iowa.gov

ELEVATIONS: ± 0.01 FT. MSL
DEPTHS: ± 0.1 FT. FROM
GROUND SURFACE

SPACE TO ATTACH ENTIRE SOIL BORING LOG
(SHOW SCREENED INTERVAL AND FILTER PACK INTERVAL).



MONITORING WELL / PIEZOMETER CONSTRUCTION DOCUMENTATION FORM

Disposal Site Name Burlington Generating Station Permit No. _____
 Well or Piezometer No. ML-307AAB Dates Started 5/10/2021 Date Completed 5/13/2021

A. SURVEYED LOCATION AND ELEVATION OF POINT (+0.5 ft.)

Specify corner of site _____ Distance and direction along boundary _____
 Distance and direction from boundary to surface monitoring well _____
 Elevation (+0.01 ft. MSL) _____
 Ground Surface _____ Top of protective casing _____
 Top of well casing _____ Benchmark elevation _____
 Benchmark description _____

B. SOIL BORING INFORMATION

Construction Company Name _____
 Address _____ City, State, Zip Code _____
 Name of driller _____
 Drilling method Roto-Sonic Drilling fluid water Bore Hole diameter 6"
 Soil sampling method Bagged Depth of boring 85'

C. MONITORING WELL INSTALLATION

| | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Casing material <u>Sch. 40 PVC</u> Length of casing _____ Outside casing diameter <u>2.4"</u> Inside casing diameter <u>2.05"</u> Casing joint type <u>Sch 40 PVC Threaded</u> Casing/screen joint type <u>Threaded</u> Screen material <u>Sch. 40 PVC</u> Screen opening size <u>0.01"</u> Screen length <u>5'</u> Depth of Well <u>80'</u> Filter Pack: Material <u>Red Flint filter sand</u> Grain Size <u>#40</u> Volume <u>3.5 bags, 1.75 ft³</u> Seal (minimum 3 ft. length above filter pack): Material <u>Bentonite chips (50lbs. bag)</u> | Placement method <u>pour</u> Volume <u>1 bag</u> Backfill (if different from seal): Material <u>Bentonite grout</u> Placement method <u>pumped</u> Volume <u>~55 gallons</u> Surface seal design: Material of protective casing: <u>Steel</u> Material of grout between protective casing and well casing: <u>Bentonite chips and sand</u> Protective cap: <u>Aluminum</u> Material _____ Vented?: <input checked="" type="checkbox"/> Y <input checked="" type="checkbox"/> N Locking?: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Well cap: Material <u>Plastic</u> Vented?: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

D. GROUNDWATER MEASUREMENT (+0.01 foot below top of inner well casing)

Water level _____ Stabilization time _____
 Well development method _____
 Average depth of frost line _____

DRILLER'S CERTIFICATION

I certify under penalty of law I believe the information reported above is true, accurate, and complete.

Signature _____ Certification # _____ Date _____

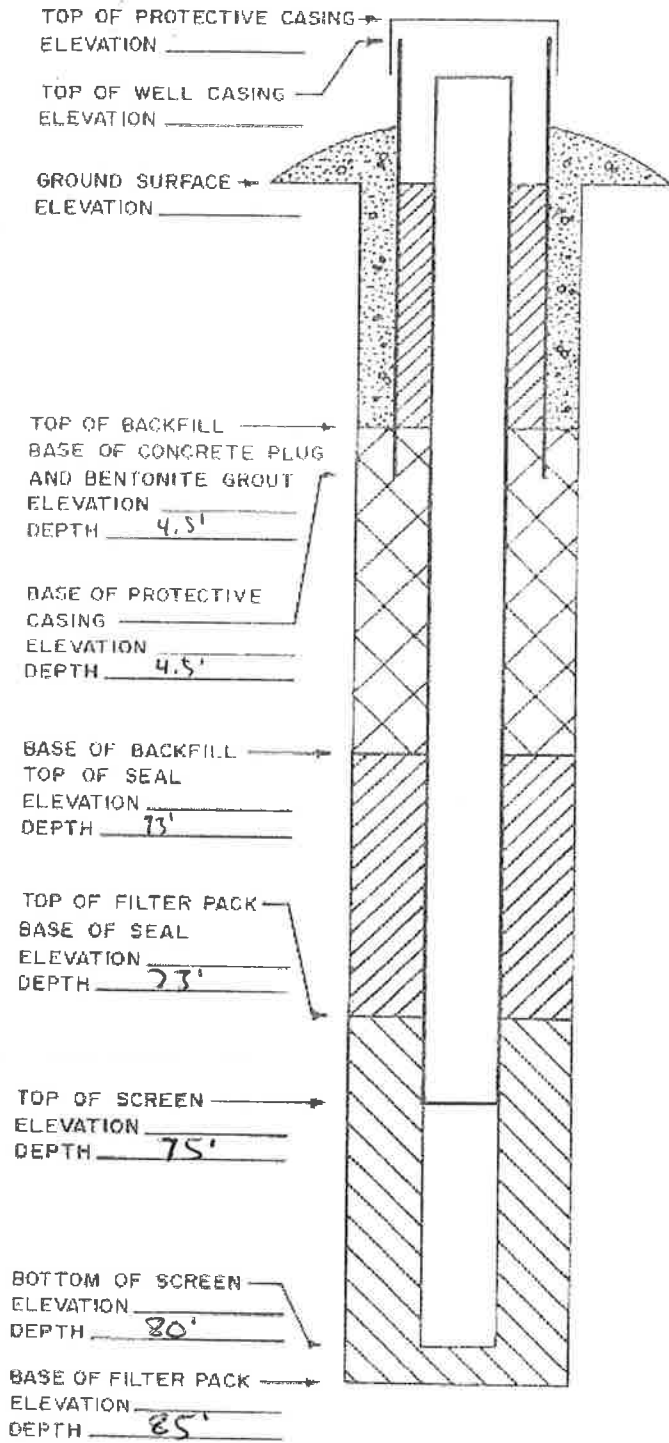
Attachments: Driller's log. Pipe schedules and grouting schedules. 8 1/2 inch x 11 inch map showing locations of all monitoring wells and piezometers.

Please mail completed form to: Iowa Department of Natural Resources, Land Quality Bureau, 502 E. 9th St, Des Moines, IA 50319.

Questions? Call or Email: Nina Booker Environmental Engineer Sr., 515-725-8309, nina.booker@dnr.iowa.gov

ELEVATIONS: \pm 0.01 FT. MSL
DEPTHS: \pm 0.1 FT. FROM
GROUND SURFACE

SPACE TO ATTACH ENTIRE SOIL BORING LOG
(SHOW SCREENED INTERVAL AND FILTER PACK INTERVAL).



MONITORING WELL / PIEZOMETER CONSTRUCTION DOCUMENTATION FORM

Disposal Site Name Burlington Generating Station Permit No. _____
 Well or Piezometer No. MU-313B Dates Started 5/11/2021 Date Completed 5/12/2021

A. SURVEYED LOCATION AND ELEVATION OF POINT (+0.5 ft.)

Specify corner of site _____ Distance and direction along boundary _____
 Distance and direction from boundary to surface monitoring well _____
 Elevation (+0.01 ft. MSL) _____
 Ground Surface _____ Top of protective casing _____
 Top of well casing _____ Benchmark elevation _____
 Benchmark description _____

B. SOIL BORING INFORMATION

Construction Company Name Cascade Drilling
 Address _____ City, State, Zip Code _____
 Name of driller Mike Mueller
 Drilling method Roto-Sonic Drilling fluid Water Bore Hole diameter 6"
 Soil sampling method Bagged Depth of boring 75"

C. MONITORING WELL INSTALLATION

| | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Casing material <u>Sch. 40 PVC</u> Length of casing <u>69.5'</u> Outside casing diameter <u>2.4"</u> Inside casing diameter <u>2.05"</u> Casing joint type <u>Threaded</u> Casing/screen joint type <u>Threaded</u> Screen material <u>Sch. 40 PVC</u> Screen opening size <u>0.01"</u> Screen length <u>5'</u> Depth of Well <u>72'</u> Filter Pack: Material <u>Red Flint filter sand</u> Grain Size <u>#40</u> Volume <u>1ft³ (2 bags @ 1/2 ft³ each)</u> Seal (minimum 3 ft. length above filter pack): Material <u>3/8" Bentonite chips</u> | Placement method <u>Poured</u> Volume <u>1 bag (50 # bag)</u> Backfill (if different from seal): Material <u>Bentonite Grout</u> Placement method <u>Pumped</u> Volume <u>55 gallons</u> Surface seal design: Material of protective casing: <u>Steel</u> Material of grout between protective casing and well casing: <u>Bentonite chips and sand</u> Protective cap: Material <u>Aluminum</u> Vented?: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Locking?: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Well cap: Material <u>plastic</u> Vented?: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

D. GROUNDWATER MEASUREMENT (+0.01 foot below top of inner well casing)

Water level _____ Stabilization time _____
 Well development method _____
 Average depth of frost line _____

DRILLER'S CERTIFICATION

I certify under penalty of law I believe the information reported above is true, accurate, and complete.

Signature _____ Certification # _____ Date _____

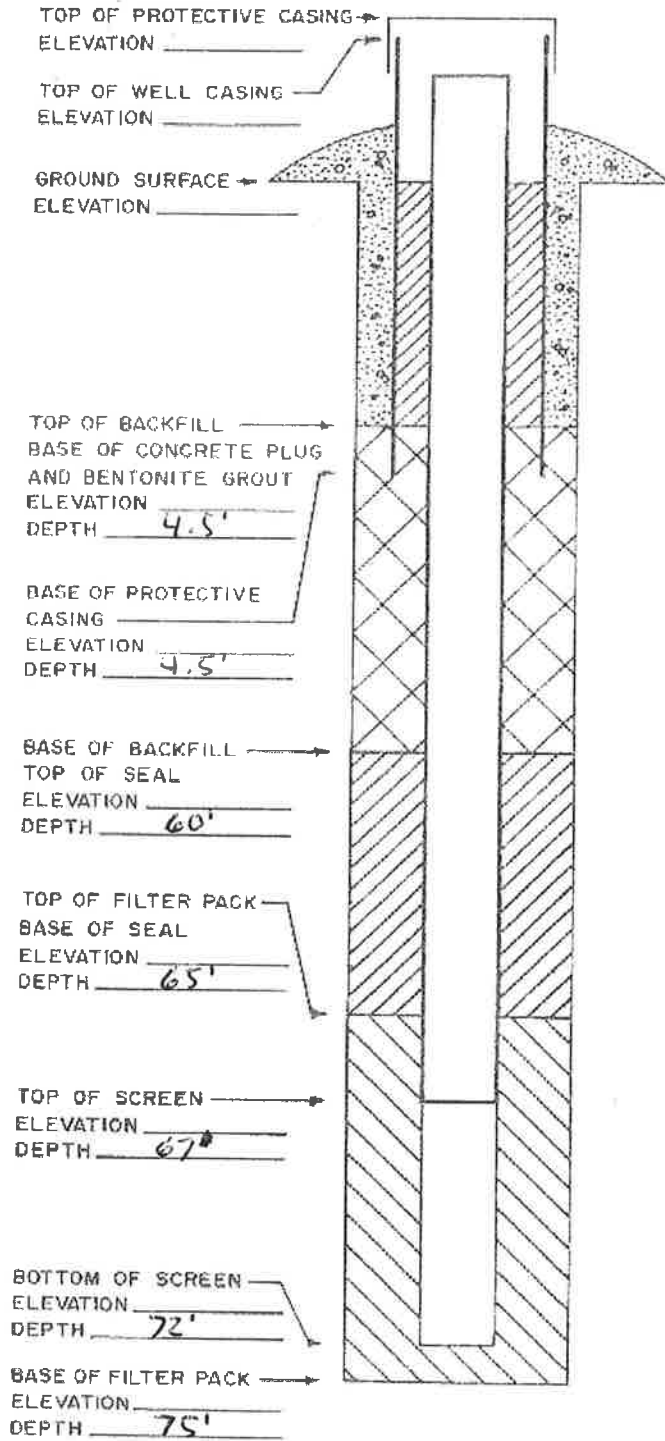
Attachments: Driller's log. Pipe schedules and grouting schedules. 8 1/2 inch x 11 inch map showing locations of all monitoring wells and piezometers.

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Questions? Call or Email: Nina Booker Environmental Engineer Sr., 515-725-8309, nina.booker@dnr.iowa.gov

ELEVATIONS: ± 0.01 FT. MSL
DEPTHS: ± 0.1 FT. FROM
GROUND SURFACE

SPACE TO ATTACH ENTIRE SOIL BORING LOG
(SHOW SCREENED INTERVAL AND FILTER PACK INTERVAL).



Appendix C

Analytical Laboratory Reports

- C1 March 2021 Assessment Monitoring – Supplemental Sampling
- C2 April 2021 Assessment Monitoring
- C3 July 2021 Assessment Monitoring – New Wells
- C4 October 2021 Assessment Monitoring

C1 March 2021 Assessment Monitoring – Supplemental Sampling

ANALYTICAL REPORT

Eurofins TestAmerica, Cedar Falls
3019 Venture Way
Cedar Falls, IA 50613
Tel: (319)277-2401

Laboratory Job ID: 310-201473-1
Client Project/Site: Alliant-Bulrington 25221066

For:
SCS Engineers
2830 Dairy Drive
Madison, Wisconsin 53718

Attn: Meghan Blodgett



*Authorized for release by:
3/15/2021 10:38:30 AM*

Sandie Fredrick, Project Manager II
(920)261-1660
sandra.fredrick@eurofinset.com

LINKS

Review your project
results through
Total Access

Have a Question?



Visit us at:

www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Case Narrative

Client: SCS Engineers
Project/Site: Alliant-Bulrington 25221066

Job ID: 310-201473-1

Job ID: 310-201473-1

Laboratory: Eurofins TestAmerica, Cedar Falls

Narrative

Job Narrative
310-201473-1

Comments

No additional comments.

Receipt

The samples were received on 3/4/2021 5:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.9° C.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Sample Summary

Client: SCS Engineers
Project/Site: Alliant-Bulrington 25221066

Job ID: 310-201473-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Asset ID |
|---------------|------------------|--------|----------------|----------------|----------|
| 310-201473-1 | MW-302A | Water | 03/01/21 13:02 | 03/04/21 17:00 | |
| 310-201473-2 | MW-307A | Water | 03/02/21 11:43 | 03/04/21 17:00 | |
| 310-201473-3 | MW-313A | Water | 03/01/21 17:40 | 03/04/21 17:00 | |
| 310-201473-4 | Field Blank | Water | 03/02/21 16:00 | 03/04/21 17:00 | |

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Detection Summary

Client: SCS Engineers
Project/Site: Alliant-Bulrington 25221066

Job ID: 310-201473-1

Client Sample ID: MW-302A

Lab Sample ID: 310-201473-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------|--------|-----------|-----|-----|------|---------|---|--------|-----------|
| Lithium | 11 | | 10 | 2.5 | ug/L | 1 | | 6020A | Total/NA |
| Molybdenum | 87 | | 2.0 | 1.3 | ug/L | 1 | | 6020A | Total/NA |

Client Sample ID: MW-307A

Lab Sample ID: 310-201473-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------|--------|-----------|-----|-----|------|---------|---|--------|-----------|
| Lithium | 9.1 | J | 10 | 2.5 | ug/L | 1 | | 6020A | Total/NA |
| Molybdenum | 120 | | 2.0 | 1.3 | ug/L | 1 | | 6020A | Total/NA |

Client Sample ID: MW-313A

Lab Sample ID: 310-201473-3

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------|--------|-----------|-----|-----|------|---------|---|--------|-----------|
| Lithium | 15 | | 10 | 2.5 | ug/L | 1 | | 6020A | Total/NA |
| Molybdenum | 110 | | 2.0 | 1.3 | ug/L | 1 | | 6020A | Total/NA |

Client Sample ID: Field Blank

Lab Sample ID: 310-201473-4

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Cedar Falls

Client Sample Results

Client: SCS Engineers
Project/Site: Alliant-Bulrington 25221066

Job ID: 310-201473-1

Client Sample ID: MW-302A

Lab Sample ID: 310-201473-1

Date Collected: 03/01/21 13:02

Matrix: Water

Date Received: 03/04/21 17:00

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Lithium | 11 | | 10 | 2.5 | ug/L | | 03/05/21 09:00 | 03/11/21 18:36 | 1 |
| Molybdenum | 87 | | 2.0 | 1.3 | ug/L | | 03/05/21 09:00 | 03/11/21 18:36 | 1 |

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Client Sample Results

Client: SCS Engineers
Project/Site: Alliant-Bulrington 25221066

Job ID: 310-201473-1

Client Sample ID: MW-307A

Lab Sample ID: 310-201473-2

Date Collected: 03/02/21 11:43

Matrix: Water

Date Received: 03/04/21 17:00

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Lithium | 9.1 | J | 10 | 2.5 | ug/L | | 03/05/21 09:00 | 03/11/21 18:38 | 1 |
| Molybdenum | 120 | | 2.0 | 1.3 | ug/L | | 03/05/21 09:00 | 03/11/21 18:38 | 1 |

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Client Sample Results

Client: SCS Engineers
Project/Site: Alliant-Bulrington 25221066

Job ID: 310-201473-1

Client Sample ID: MW-313A

Lab Sample ID: 310-201473-3

Date Collected: 03/01/21 17:40

Matrix: Water

Date Received: 03/04/21 17:00

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Lithium | 15 | | 10 | 2.5 | ug/L | | 03/05/21 09:00 | 03/11/21 20:21 | 1 |
| Molybdenum | 110 | | 2.0 | 1.3 | ug/L | | 03/05/21 09:00 | 03/11/21 20:21 | 1 |

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Client Sample Results

Client: SCS Engineers
Project/Site: Alliant-Bulrington 25221066

Job ID: 310-201473-1

Client Sample ID: Field Blank

Lab Sample ID: 310-201473-4

Date Collected: 03/02/21 16:00

Matrix: Water

Date Received: 03/04/21 17:00

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Lithium | <2.5 | | 10 | 2.5 | ug/L | | 03/05/21 09:00 | 03/11/21 20:23 | 1 |
| Molybdenum | <1.3 | | 2.0 | 1.3 | ug/L | | 03/05/21 09:00 | 03/11/21 20:23 | 1 |

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- 14

Definitions/Glossary

Client: SCS Engineers
Project/Site: Alliant-Bulrington 25221066

Job ID: 310-201473-1

Qualifiers

Metals

| Qualifier | Qualifier Description |
|-----------|----------------------------------------------------------------------------------------------------------------|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|----------------|-------------------------------------------------------------------------------------------------------------|
| α | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CFU | Colony Forming Unit |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MCL | EPA recommended "Maximum Contaminant Level" |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| MPN | Most Probable Number |
| MQL | Method Quantitation Limit |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| NEG | Negative / Absent |
| POS | Positive / Present |
| PQL | Practical Quantitation Limit |
| PRES | Presumptive |
| QC | Quality Control |
| RER | Relative Error Ratio (Radiochemistry) |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |
| TNTC | Too Numerous To Count |

QC Sample Results

Client: SCS Engineers
 Project/Site: Alliant-Bulrington 25221066

Job ID: 310-201473-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 310-308613/1-A
Matrix: Water
Analysis Batch: 309389

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 308613

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|-----------|--------------|-----|-----|------|---|----------------|----------------|---------|
| Lithium | <2.5 | | 10 | 2.5 | ug/L | | 03/05/21 09:00 | 03/11/21 17:15 | 1 |
| Molybdenum | <1.3 | | 2.0 | 1.3 | ug/L | | 03/05/21 09:00 | 03/11/21 17:15 | 1 |

Lab Sample ID: LCS 310-308613/2-A
Matrix: Water
Analysis Batch: 309389

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 308613

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|------------|-------------|------------|---------------|------|---|------|--------------|
| Lithium | 200 | 210 | | ug/L | | 105 | 80 - 120 |
| Molybdenum | 200 | 203 | | ug/L | | 101 | 80 - 120 |

Lab Sample ID: MB 310-308614/1-A
Matrix: Water
Analysis Batch: 309389

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 308614

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|-----------|--------------|-----|-----|------|---|----------------|----------------|---------|
| Lithium | <2.5 | | 10 | 2.5 | ug/L | | 03/05/21 09:00 | 03/11/21 19:00 | 1 |
| Molybdenum | <1.3 | | 2.0 | 1.3 | ug/L | | 03/05/21 09:00 | 03/11/21 19:00 | 1 |

Lab Sample ID: LCS 310-308614/2-A
Matrix: Water
Analysis Batch: 309389

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 308614

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|------------|-------------|------------|---------------|------|---|------|--------------|
| Lithium | 200 | 198 | | ug/L | | 99 | 80 - 120 |
| Molybdenum | 200 | 195 | | ug/L | | 98 | 80 - 120 |

QC Association Summary

Client: SCS Engineers
Project/Site: Alliant-Bulrington 25221066

Job ID: 310-201473-1

Metals

Prep Batch: 308613

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 310-201473-1 | MW-302A | Total/NA | Water | 3010A | |
| 310-201473-2 | MW-307A | Total/NA | Water | 3010A | |
| MB 310-308613/1-A | Method Blank | Total/NA | Water | 3010A | |
| LCS 310-308613/2-A | Lab Control Sample | Total/NA | Water | 3010A | |

Prep Batch: 308614

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 310-201473-3 | MW-313A | Total/NA | Water | 3010A | |
| 310-201473-4 | Field Blank | Total/NA | Water | 3010A | |
| MB 310-308614/1-A | Method Blank | Total/NA | Water | 3010A | |
| LCS 310-308614/2-A | Lab Control Sample | Total/NA | Water | 3010A | |

Analysis Batch: 309389

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 310-201473-1 | MW-302A | Total/NA | Water | 6020A | 308613 |
| 310-201473-2 | MW-307A | Total/NA | Water | 6020A | 308613 |
| 310-201473-3 | MW-313A | Total/NA | Water | 6020A | 308614 |
| 310-201473-4 | Field Blank | Total/NA | Water | 6020A | 308614 |
| MB 310-308613/1-A | Method Blank | Total/NA | Water | 6020A | 308613 |
| MB 310-308614/1-A | Method Blank | Total/NA | Water | 6020A | 308614 |
| LCS 310-308613/2-A | Lab Control Sample | Total/NA | Water | 6020A | 308613 |
| LCS 310-308614/2-A | Lab Control Sample | Total/NA | Water | 6020A | 308614 |

Lab Chronicle

Client: SCS Engineers
Project/Site: Alliant-Bulrington 25221066

Job ID: 310-201473-1

Client Sample ID: MW-302A

Date Collected: 03/01/21 13:02

Date Received: 03/04/21 17:00

Lab Sample ID: 310-201473-1

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | 3010A | | | 308613 | 03/05/21 09:00 | JNR | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 309389 | 03/11/21 18:36 | SAD | TAL CF |

Client Sample ID: MW-307A

Date Collected: 03/02/21 11:43

Date Received: 03/04/21 17:00

Lab Sample ID: 310-201473-2

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | 3010A | | | 308613 | 03/05/21 09:00 | JNR | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 309389 | 03/11/21 18:38 | SAD | TAL CF |

Client Sample ID: MW-313A

Date Collected: 03/01/21 17:40

Date Received: 03/04/21 17:00

Lab Sample ID: 310-201473-3

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | 3010A | | | 308614 | 03/05/21 09:00 | JNR | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 309389 | 03/11/21 20:21 | SAD | TAL CF |

Client Sample ID: Field Blank

Date Collected: 03/02/21 16:00

Date Received: 03/04/21 17:00

Lab Sample ID: 310-201473-4

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | 3010A | | | 308614 | 03/05/21 09:00 | JNR | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 309389 | 03/11/21 20:23 | SAD | TAL CF |

Laboratory References:

TAL CF = Eurofins TestAmerica, Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

Accreditation/Certification Summary

Client: SCS Engineers
Project/Site: Alliant-Bulrington 25221066

Job ID: 310-201473-1

Laboratory: Eurofins TestAmerica, Cedar Falls

The accreditations/certifications listed below are applicable to this report.

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| Iowa | State | 007 | 12-01-21 |

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

Client: SCS Engineers
Project/Site: Alliant-Bulrington 25221066

Job ID: 310-201473-1

| Method | Method Description | Protocol | Laboratory |
|--------|---------------------------|----------|------------|
| 6020A | Metals (ICP/MS) | SW846 | TAL CF |
| 3010A | Preparation, Total Metals | SW846 | TAL CF |

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CF = Eurofins TestAmerica, Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401





Environment Testing
TestAmerica



310-201473 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

| | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|------------------------------------|
| Client Information | | | |
| Client: <u>SCS Engineers</u> | | | |
| City/State: | CITY: <u>Clive</u> | STATE: <u>IA</u> | Project: <u>Alliant Burlington</u> |
| Receipt Information | | | |
| Date/Time Received: | DATE: <u>3-3-21</u> | TIME: <u>1700</u> | Received By: <u>EX</u> |
| Delivery Type: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input checked="" type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____ | | | |
| Condition of Cooler/Containers | | | |
| Sample(s) received in Cooler? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If yes: Cooler ID: _____ | |
| Multiple Coolers? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If yes: Cooler # ____ of ____ | |
| Cooler Custody Seals Present? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If yes: Cooler custody seals intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| Sample Custody Seals Present? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No | |
| Trip Blank Present? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If yes: Which VOA samples are in cooler? ↓ | |
| Temperature Record | | | |
| Coolant: | <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE | | |
| Thermometer ID: | <u>0</u> | Correction Factor (°C): | <u>0</u> |
| • Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature | | | |
| Uncorrected Temp (°C): | <u>3.9</u> | Corrected Temp (°C): | <u>3.9</u> |
| • Sample Container Temperature | | | |
| Container(s) used: | <u>CONTAINER 1</u> | <u>CONTAINER 2</u> | |
| Uncorrected Temp (°C): | | | |
| Corrected Temp (°C): | | | |
| Exceptions Noted | | | |
| 1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No | | | |
| 2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No | | | |
| NOTE: If yes, contact PM before proceeding. If no, proceed with login | | | |
| Additional Comments | | | |
| | | | |
| | | | |
| | | | |

Chain of Custody Record

| | | | | | | | | | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------------|-------------------------------------|----------------------------------------------------------------|------------------------------------------|-----------------------------------|----------------------------------------------|-----------------------------------|-----------------------------------|
| Client Information | Lab PM Fredrick, Sandie | Carrier Tracking No(s): 310-58526-17129.1 | COC No: 310-58526-17129.1 | | | | | | | | |
| Client Contact: Tantien Buszka | E-Mail: sandra.fredrick@eurofinset.com | State of Origin: | Page: Page 1 of 1 | | | | | | | | |
| Company: SCS Engineers | PWSID | Job #: | | | | | | | | | |
| Address: 8450 Hickman Road Suite 27 | Due Date Requested: | Analysis Requested | | | | | | | | | |
| City: Clive | TAT Requested (days): | | | | | | | | | | |
| State/Zip: IA, 50325 | Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No | | | | | | | | | | |
| Phone: 264-943-0855 | PO #: 25221066 | | | | | | | | | | |
| Email: tbuszka@scsengineers.com | WO #: | | | | | | | | | | |
| Project Name: Alliant-Burlington 25221066 | Project #: 31011020 | Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - ASN02 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4.5 Z - other (specify) | | | | | | | | | |
| Site: → | SSOW#: | | | | | | | | | | |
| Sample Identification | Sample Date | | | Sample Time | Sample Type (C=Comp, G=grab) | Matrix (W=water, S=solid, O=wast/oli, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 6020A - Metals (2) Total Lithium/Moly | Total Number of Containers | Special Instructions/Note: |
| MW-302A | 3-1-21 | | | 13:02 | G | Water | X | X | | | * See Attached Table * |
| MW-307A | 3-2-21 | | | 11:43 | G | Water | X | X | | | |
| MW-313A | 3-1-21 | 17:40 | G | Water | X | X | | | | | |
| Field Blank | 3-2-21 | 16:00 | G | Water | X | X | | | | | |
| Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological | | | | | | | | | | | |
| Deliverable Requested: I, II, III, IV, Other (specify) | | | | | | | | | | | |
| Empty Kit Relinquished by: | | | | | | | | | | | |
| Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months | | | | | | | | | | | |
| Special Instructions/QC Requirements: | | | | | | | | | | | |
| Time: | | | | | | | | | | | |
| Relinquished by: <i>Tantien Buszka</i> | | Date/Time: 3-3-21 11:20 | | Company: SCS | | Date/Time: 3-3-21 11:20 | | Company: SCS | | | |
| Relinquished by: | | Date/Time: | | Company: | | Date/Time: | | Company: | | | |
| Relinquished by: | | Date/Time: | | Company: | | Date/Time: | | Company: | | | |
| Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No | | Custody Seal No.: | | Cooler Temperature(s) °C and Other Remarks: | | | | | | | |



Table 1. Sampling Points and Parameters - CCR Rule Sampling Program Assessment Monitoring
Groundwater Monitoring - Burlington Generating Station / SCS Engineers Project #25221066

| Parameter | MW-301 | MW-302 | MW-302A | MW-303 | MW-304 | MW-305 | MW-306 | MW-307 | MW-307A | MW-308 | MW-309 | MW-310 | MW-310A | MW-311 | MW-312 | MW-313 | MW-313A | Field Blank | TOTAL |
|------------------------------------------------------|--------|--------|---------|--------|--------|--------|--------|--------|---------|--------|--------|--------|---------|--------|--------|--------|---------|-------------|-------|
| Appendix III Parameters | | | | | | | | | | | | | | | | | | | 0 |
| Boron | | | | | | | | | | | | | | | | | | | 0 |
| Calcium | | | | | | | | | | | | | | | | | | | 0 |
| Chloride | | | | | | | | | | | | | | | | | | | 0 |
| Fluoride | | | | | | | | | | | | | | | | | | | 0 |
| pH | | | | | | | | | | | | | | | | | | | 0 |
| Sulfate | | | | | | | | | | | | | | | | | | | 0 |
| TDS | | | | | | | | | | | | | | | | | | | 0 |
| Appendix IV Parameters | | | | | | | | | | | | | | | | | | | 0 |
| Antimony | | | | | | | | | | | | | | | | | | | 0 |
| Arsenic | | | | | | | | | | | | | | | | | | | 0 |
| Barium | | | | | | | | | | | | | | | | | | | 0 |
| Beryllium | | | | | | | | | | | | | | | | | | | 0 |
| Cadmium | | | | | | | | | | | | | | | | | | | 0 |
| Chromium | | | | | | | | | | | | | | | | | | | 0 |
| Cobalt | | | | | | | | | | | | | | | | | | | 0 |
| Fluoride | | | | | | | | | | | | | | | | | | | 0 |
| Lead | | | | | | | | | | | | | | | | | | | 0 |
| Lithium | | | X | | | | | | | | | | | | | | X | X | 4 |
| Mercury | | | | | | | | | | | | | | | | | | | 0 |
| Molybdenum | | | X | | | | | | | | | | | | | | X | X | 4 |
| Selenium | | | | | | | | | | | | | | | | | | | 0 |
| Thallium | | | | | | | | | | | | | | | | | | | 0 |
| Radium | | | | | | | | | | | | | | | | | | | 0 |
| Field Parameters | | | | | | | | | | | | | | | | | | | 0 |
| Groundwater Elevation | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 17 |
| Well Depth | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 17 |
| pH (field) | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 17 |
| Specific Conductance | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 17 |
| Dissolved Oxygen | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 17 |
| ORP | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 17 |
| Temperature | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 17 |
| Turbidity | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 17 |
| Color | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 17 |
| Odor | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 17 |
| Additional Lab Parameters - REPORT SEPARATELY | | | | | | | | | | | | | | | | | | | 0 |
| Bicarbonate (total) | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 17 |
| Carbonate (total) | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 17 |
| Iron (total) | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 17 |
| Magnesium (total) | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 17 |
| Manganese (total) | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 17 |
| Potassium (total) | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 17 |
| Sodium (total) | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 17 |
| Iron (filtered) | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 17 |
| Lithium (filtered) | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 10 |
| Manganese (filtered) | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 17 |
| Molybdenum (filtered) | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 12 |

Notes:
I:\25221066.00\Data and Calculations\Field Work Requests\Table_1_BGS_CCR_Rule_Sampling_2103.xls\Sheet1



Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-201473-1

Login Number: 201473

List Source: Eurofins TestAmerica, Cedar Falls

List Number: 1

Creator: Bovy, Lorrainna L

| Question | Answer | Comment |
|-----------------------------------------------------------------------------------------------------|--------|---------|
| Radioactivity wasn't checked or is \leq background as measured by a survey meter. | N/A | |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | N/A | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |



ANALYTICAL REPORT

Eurofins TestAmerica, Cedar Falls
3019 Venture Way
Cedar Falls, IA 50613
Tel: (319)277-2401

Laboratory Job ID: 310-201472-1
Client Project/Site: Alliant-Burlington 25221066

For:
SCS Engineers
2830 Dairy Drive
Madison, Wisconsin 53718

Attn: Meghan Blodgett



Authorized for release by:
3/15/2021 2:56:05 PM

Sandie Fredrick, Project Manager II
(920)261-1660
sandra.fredrick@eurofinset.com

LINKS

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results through
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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Case Narrative

Client: SCS Engineers
Project/Site: Alliant-Burlington 25221066

Job ID: 310-201472-1

Job ID: 310-201472-1

Laboratory: Eurofins TestAmerica, Cedar Falls

Narrative

Job Narrative 310-201472-1

Comments

No additional comments.

Receipt

The samples were received on 3/3/2021 5:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.6° C and 4.0° C.

Metals

Method 3010A: The reference method requires samples to be preserved to a pH of <2. The following sample was received with insufficient preservation at a pH of >2: MW-301 (310-201472-1). The sample(s) was preserved to the appropriate pH in the laboratory.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.



Sample Summary

Client: SCS Engineers
Project/Site: Alliant-Burlington 25221066

Job ID: 310-201472-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Asset ID |
|---------------|------------------|--------|----------------|----------------|----------|
| 310-201472-1 | MW-301 | Water | 03/01/21 10:58 | 03/03/21 17:00 | |
| 310-201472-2 | MW-302 | Water | 03/01/21 12:10 | 03/03/21 17:00 | |
| 310-201472-3 | MW-302A | Water | 03/01/21 13:02 | 03/03/21 17:00 | |
| 310-201472-4 | MW-303 | Water | 03/01/21 14:03 | 03/03/21 17:00 | |
| 310-201472-5 | MW-304 | Water | 03/01/21 15:22 | 03/03/21 17:00 | |
| 310-201472-6 | MW-305 | Water | 03/02/21 15:20 | 03/03/21 17:00 | |
| 310-201472-7 | MW-306 | Water | 03/02/21 13:03 | 03/03/21 17:00 | |
| 310-201472-8 | MW-307 | Water | 03/02/21 10:58 | 03/03/21 17:00 | |
| 310-201472-9 | MW-307A | Water | 03/02/21 11:43 | 03/03/21 17:00 | |
| 310-201472-10 | MW-308 | Water | 03/02/21 09:03 | 03/03/21 17:00 | |
| 310-201472-11 | MW-309 | Water | 03/01/21 09:36 | 03/03/21 17:00 | |
| 310-201472-12 | MW-310A | Water | 03/03/21 07:40 | 03/03/21 17:00 | |
| 310-201472-13 | MW-311 | Water | 03/01/21 08:50 | 03/03/21 17:00 | |
| 310-201472-14 | MW-312 | Water | 03/01/21 16:23 | 03/03/21 17:00 | |
| 310-201472-15 | MW-313 | Water | 03/02/21 16:20 | 03/03/21 17:00 | |
| 310-201472-16 | MW-313A | Water | 03/01/21 17:40 | 03/03/21 17:00 | |
| 310-201472-17 | Field Blank | Water | 03/02/21 16:00 | 03/03/21 17:00 | |

Detection Summary

Client: SCS Engineers
Project/Site: Alliant-Burlington 25221066

Job ID: 310-201472-1

Client Sample ID: MW-301

Lab Sample ID: 310-201472-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-------------------------------------|--------|-----------|------|-----|------------|---------|---|----------------|-----------|
| Iron | 40000 | | 100 | 36 | ug/L | 1 | | 6020A | Total/NA |
| Magnesium | 68000 | | 500 | 100 | ug/L | 1 | | 6020A | Total/NA |
| Manganese | 13000 | | 70 | 31 | ug/L | 7 | | 6020A | Total/NA |
| Potassium | 4000 | | 500 | 150 | ug/L | 1 | | 6020A | Total/NA |
| Sodium | 50000 | | 1000 | 610 | ug/L | 1 | | 6020A | Total/NA |
| Iron | 41000 | | 100 | 36 | ug/L | 1 | | 6020A | Dissolved |
| Manganese | 13000 | | 70 | 31 | ug/L | 7 | | 6020A | Dissolved |
| Molybdenum | 41 | | 2.0 | 1.3 | ug/L | 1 | | 6020A | Dissolved |
| Bicarbonate Alkalinity as CaCO3 | 800 | | 10 | 4.6 | mg/L | 1 | | SM 2320B | Total/NA |
| Total Alkalinity as CaCO3 to pH 4.5 | 800 | | 10 | 4.6 | mg/L | 1 | | SM 2320B | Total/NA |
| Ground Water Elevation | 521.10 | | | | ft | 1 | | Field Sampling | Total/NA |
| Oxidation Reduction Potential | -176.6 | | | | millivolts | 1 | | Field Sampling | Total/NA |
| Oxygen, Dissolved, Client Supplied | 0.16 | | | | mg/L | 1 | | Field Sampling | Total/NA |
| pH, Field | 6.88 | | | | SU | 1 | | Field Sampling | Total/NA |
| Specific Conductance, Field | 1562 | | | | umhos/cm | 1 | | Field Sampling | Total/NA |
| Temperature, Field | 12.2 | | | | Degrees C | 1 | | Field Sampling | Total/NA |
| Turbidity, Field | 3.50 | | | | NTU | 1 | | Field Sampling | Total/NA |

Client Sample ID: MW-302

Lab Sample ID: 310-201472-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-------------------------------------|--------|-----------|------|-----|------------|---------|---|----------------|-----------|
| Iron | 2400 | | 100 | 36 | ug/L | 1 | | 6020A | Total/NA |
| Magnesium | 15000 | | 500 | 100 | ug/L | 1 | | 6020A | Total/NA |
| Manganese | 1300 | | 10 | 4.4 | ug/L | 1 | | 6020A | Total/NA |
| Potassium | 13000 | | 500 | 150 | ug/L | 1 | | 6020A | Total/NA |
| Sodium | 27000 | | 1000 | 610 | ug/L | 1 | | 6020A | Total/NA |
| Iron | 2000 | | 100 | 36 | ug/L | 1 | | 6020A | Dissolved |
| Lithium | 66 | | 10 | 2.5 | ug/L | 1 | | 6020A | Dissolved |
| Manganese | 1300 | | 10 | 4.4 | ug/L | 1 | | 6020A | Dissolved |
| Molybdenum | 130 | | 2.0 | 1.3 | ug/L | 1 | | 6020A | Dissolved |
| Bicarbonate Alkalinity as CaCO3 | 190 | | 9.1 | 4.2 | mg/L | 1 | | SM 2320B | Total/NA |
| Total Alkalinity as CaCO3 to pH 4.5 | 190 | | 9.1 | 4.2 | mg/L | 1 | | SM 2320B | Total/NA |
| Ground Water Elevation | 520.21 | | | | ft | 1 | | Field Sampling | Total/NA |
| Oxidation Reduction Potential | -236.9 | | | | millivolts | 1 | | Field Sampling | Total/NA |
| Oxygen, Dissolved, Client Supplied | 0.11 | | | | mg/L | 1 | | Field Sampling | Total/NA |
| pH, Field | 7.95 | | | | SU | 1 | | Field Sampling | Total/NA |
| Specific Conductance, Field | 1101 | | | | umhos/cm | 1 | | Field Sampling | Total/NA |
| Temperature, Field | 12.3 | | | | Degrees C | 1 | | Field Sampling | Total/NA |
| Turbidity, Field | 2.70 | | | | NTU | 1 | | Field Sampling | Total/NA |

Client Sample ID: MW-302A

Lab Sample ID: 310-201472-3

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------|--------|-----------|------|-----|------|---------|---|--------|-----------|
| Iron | 8300 | | 100 | 36 | ug/L | 1 | | 6020A | Total/NA |
| Magnesium | 32000 | | 500 | 100 | ug/L | 1 | | 6020A | Total/NA |
| Manganese | 3300 | | 10 | 4.4 | ug/L | 1 | | 6020A | Total/NA |
| Potassium | 3600 | | 500 | 150 | ug/L | 1 | | 6020A | Total/NA |
| Sodium | 32000 | | 1000 | 610 | ug/L | 1 | | 6020A | Total/NA |
| Iron | 8600 | | 100 | 36 | ug/L | 1 | | 6020A | Dissolved |
| Lithium | 12 | | 10 | 2.5 | ug/L | 1 | | 6020A | Dissolved |
| Manganese | 3500 | | 10 | 4.4 | ug/L | 1 | | 6020A | Dissolved |
| Molybdenum | 90 | | 2.0 | 1.3 | ug/L | 1 | | 6020A | Dissolved |

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Cedar Falls

Detection Summary

Client: SCS Engineers
Project/Site: Alliant-Burlington 25221066

Job ID: 310-201472-1

Client Sample ID: MW-302A (Continued)

Lab Sample ID: 310-201472-3

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-------------------------------------|--------|-----------|-----|-----|------------|---------|---|----------------|-----------|
| Bicarbonate Alkalinity as CaCO3 | 180 | | 9.1 | 4.2 | mg/L | 1 | | SM 2320B | Total/NA |
| Total Alkalinity as CaCO3 to pH 4.5 | 180 | | 9.1 | 4.2 | mg/L | 1 | | SM 2320B | Total/NA |
| Ground Water Elevation | 520.14 | | | | ft | 1 | | Field Sampling | Total/NA |
| Oxidation Reduction Potential | -165.6 | | | | millivolts | 1 | | Field Sampling | Total/NA |
| Oxygen, Dissolved, Client Supplied | 0.16 | | | | mg/L | 1 | | Field Sampling | Total/NA |
| pH, Field | 7.20 | | | | SU | 1 | | Field Sampling | Total/NA |
| Specific Conductance, Field | 975 | | | | umhos/cm | 1 | | Field Sampling | Total/NA |
| Temperature, Field | 12.5 | | | | Degrees C | 1 | | Field Sampling | Total/NA |
| Turbidity, Field | 0.48 | | | | NTU | 1 | | Field Sampling | Total/NA |

Client Sample ID: MW-303

Lab Sample ID: 310-201472-4

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-------------------------------------|--------|-----------|------|-----|------------|---------|---|----------------|-----------|
| Iron | 7600 | | 100 | 36 | ug/L | 1 | | 6020A | Total/NA |
| Magnesium | 20000 | | 500 | 100 | ug/L | 1 | | 6020A | Total/NA |
| Manganese | 3400 | | 10 | 4.4 | ug/L | 1 | | 6020A | Total/NA |
| Potassium | 22000 | | 500 | 150 | ug/L | 1 | | 6020A | Total/NA |
| Sodium | 33000 | | 1000 | 610 | ug/L | 1 | | 6020A | Total/NA |
| Iron | 7600 | | 100 | 36 | ug/L | 1 | | 6020A | Dissolved |
| Lithium | 66 | | 10 | 2.5 | ug/L | 1 | | 6020A | Dissolved |
| Manganese | 3400 | | 10 | 4.4 | ug/L | 1 | | 6020A | Dissolved |
| Molybdenum | 120 | | 2.0 | 1.3 | ug/L | 1 | | 6020A | Dissolved |
| Bicarbonate Alkalinity as CaCO3 | 210 | | 10 | 4.6 | mg/L | 1 | | SM 2320B | Total/NA |
| Total Alkalinity as CaCO3 to pH 4.5 | 210 | | 10 | 4.6 | mg/L | 1 | | SM 2320B | Total/NA |
| Ground Water Elevation | 520.09 | | | | ft | 1 | | Field Sampling | Total/NA |
| Oxidation Reduction Potential | -174.2 | | | | millivolts | 1 | | Field Sampling | Total/NA |
| Oxygen, Dissolved, Client Supplied | 0.12 | | | | mg/L | 1 | | Field Sampling | Total/NA |
| pH, Field | 7.15 | | | | SU | 1 | | Field Sampling | Total/NA |
| Specific Conductance, Field | 916 | | | | umhos/cm | 1 | | Field Sampling | Total/NA |
| Temperature, Field | 13.6 | | | | Degrees C | 1 | | Field Sampling | Total/NA |
| Turbidity, Field | 1.82 | | | | NTU | 1 | | Field Sampling | Total/NA |

Client Sample ID: MW-304

Lab Sample ID: 310-201472-5

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-------------------------------------|--------|-----------|------|-----|------------|---------|---|----------------|-----------|
| Iron | 1200 | | 100 | 36 | ug/L | 1 | | 6020A | Total/NA |
| Magnesium | 5200 | | 500 | 100 | ug/L | 1 | | 6020A | Total/NA |
| Manganese | 750 | | 10 | 4.4 | ug/L | 1 | | 6020A | Total/NA |
| Potassium | 15000 | | 500 | 150 | ug/L | 1 | | 6020A | Total/NA |
| Sodium | 46000 | | 1000 | 610 | ug/L | 1 | | 6020A | Total/NA |
| Iron | 1100 | | 100 | 36 | ug/L | 1 | | 6020A | Dissolved |
| Lithium | 86 | | 10 | 2.5 | ug/L | 1 | | 6020A | Dissolved |
| Manganese | 760 | | 10 | 4.4 | ug/L | 1 | | 6020A | Dissolved |
| Molybdenum | 140 | | 2.0 | 1.3 | ug/L | 1 | | 6020A | Dissolved |
| Bicarbonate Alkalinity as CaCO3 | 130 | | 5.6 | 2.6 | mg/L | 1 | | SM 2320B | Total/NA |
| Total Alkalinity as CaCO3 to pH 4.5 | 130 | | 5.6 | 2.6 | mg/L | 1 | | SM 2320B | Total/NA |
| Ground Water Elevation | 520.15 | | | | ft | 1 | | Field Sampling | Total/NA |
| Oxidation Reduction Potential | -280.2 | | | | millivolts | 1 | | Field Sampling | Total/NA |
| Oxygen, Dissolved, Client Supplied | 0.07 | | | | mg/L | 1 | | Field Sampling | Total/NA |
| pH, Field | 8.26 | | | | SU | 1 | | Field Sampling | Total/NA |
| Specific Conductance, Field | 971 | | | | umhos/cm | 1 | | Field Sampling | Total/NA |
| Temperature, Field | 14.1 | | | | Degrees C | 1 | | Field Sampling | Total/NA |

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Cedar Falls

Detection Summary

Client: SCS Engineers
Project/Site: Alliant-Burlington 25221066

Job ID: 310-201472-1

Client Sample ID: MW-304 (Continued)

Lab Sample ID: 310-201472-5

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------|--------|-----------|----|-----|------|---------|---|----------------|-----------|
| Turbidity, Field | 0.02 | | | | NTU | 1 | | Field Sampling | Total/NA |

Client Sample ID: MW-305

Lab Sample ID: 310-201472-6

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-------------------------------------|--------|-----------|------|-----|------------|---------|---|----------------|-----------|
| Iron | 1900 | | 100 | 36 | ug/L | 1 | | 6020A | Total/NA |
| Magnesium | 21000 | | 500 | 100 | ug/L | 1 | | 6020A | Total/NA |
| Manganese | 1900 | | 10 | 4.4 | ug/L | 1 | | 6020A | Total/NA |
| Potassium | 6300 | | 500 | 150 | ug/L | 1 | | 6020A | Total/NA |
| Sodium | 47000 | | 1000 | 610 | ug/L | 1 | | 6020A | Total/NA |
| Iron | 1800 | | 100 | 36 | ug/L | 1 | | 6020A | Dissolved |
| Manganese | 1900 | | 10 | 4.4 | ug/L | 1 | | 6020A | Dissolved |
| Bicarbonate Alkalinity as CaCO3 | 410 | | 10 | 4.6 | mg/L | 1 | | SM 2320B | Total/NA |
| Total Alkalinity as CaCO3 to pH 4.5 | 410 | | 10 | 4.6 | mg/L | 1 | | SM 2320B | Total/NA |
| Ground Water Elevation | 520.48 | | | | ft | 1 | | Field Sampling | Total/NA |
| Oxidation Reduction Potential | -154.0 | | | | millivolts | 1 | | Field Sampling | Total/NA |
| Oxygen, Dissolved, Client Supplied | 0.44 | | | | mg/L | 1 | | Field Sampling | Total/NA |
| pH, Field | 7.29 | | | | SU | 1 | | Field Sampling | Total/NA |
| Specific Conductance, Field | 865 | | | | umhos/cm | 1 | | Field Sampling | Total/NA |
| Temperature, Field | 14.8 | | | | Degrees C | 1 | | Field Sampling | Total/NA |
| Turbidity, Field | 0.02 | | | | NTU | 1 | | Field Sampling | Total/NA |

Client Sample ID: MW-306

Lab Sample ID: 310-201472-7

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-------------------------------------|--------|-----------|------|-----|------------|---------|---|----------------|-----------|
| Iron | 54 | J | 100 | 36 | ug/L | 1 | | 6020A | Total/NA |
| Manganese | 6.5 | J | 10 | 4.4 | ug/L | 1 | | 6020A | Total/NA |
| Potassium | 19000 | | 500 | 150 | ug/L | 1 | | 6020A | Total/NA |
| Sodium | 50000 | | 1000 | 610 | ug/L | 1 | | 6020A | Total/NA |
| Lithium | 29 | | 10 | 2.5 | ug/L | 1 | | 6020A | Dissolved |
| Manganese | 5.4 | J | 10 | 4.4 | ug/L | 1 | | 6020A | Dissolved |
| Bicarbonate Alkalinity as CaCO3 | 68 | | 7.7 | 3.5 | mg/L | 1 | | SM 2320B | Total/NA |
| Carbonate Alkalinity as CaCO3 | 46 | | 7.7 | 3.5 | mg/L | 1 | | SM 2320B | Total/NA |
| Total Alkalinity as CaCO3 to pH 4.5 | 110 | | 7.7 | 3.5 | mg/L | 1 | | SM 2320B | Total/NA |
| Ground Water Elevation | 520.65 | | | | ft | 1 | | Field Sampling | Total/NA |
| Oxidation Reduction Potential | -196.0 | | | | millivolts | 1 | | Field Sampling | Total/NA |
| Oxygen, Dissolved, Client Supplied | 0.39 | | | | mg/L | 1 | | Field Sampling | Total/NA |
| pH, Field | 9.46 | | | | SU | 1 | | Field Sampling | Total/NA |
| Specific Conductance, Field | 415 | | | | umhos/cm | 1 | | Field Sampling | Total/NA |
| Temperature, Field | 14.1 | | | | Degrees C | 1 | | Field Sampling | Total/NA |
| Turbidity, Field | 0.02 | | | | NTU | 1 | | Field Sampling | Total/NA |

Client Sample ID: MW-307

Lab Sample ID: 310-201472-8

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------------------------------|--------|-----------|------|-----|------|---------|---|----------|-----------|
| Manganese | 5.4 | J | 10 | 4.4 | ug/L | 1 | | 6020A | Total/NA |
| Potassium | 38000 | | 500 | 150 | ug/L | 1 | | 6020A | Total/NA |
| Sodium | 52000 | | 1000 | 610 | ug/L | 1 | | 6020A | Total/NA |
| Lithium | 52 | | 10 | 2.5 | ug/L | 1 | | 6020A | Dissolved |
| Manganese | 5.3 | J | 10 | 4.4 | ug/L | 1 | | 6020A | Dissolved |
| Molybdenum | 130 | | 2.0 | 1.3 | ug/L | 1 | | 6020A | Dissolved |
| Bicarbonate Alkalinity as CaCO3 | 35 | | 5.0 | 2.3 | mg/L | 1 | | SM 2320B | Total/NA |

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Cedar Falls

Detection Summary

Client: SCS Engineers
Project/Site: Alliant-Burlington 25221066

Job ID: 310-201472-1

Client Sample ID: MW-307 (Continued)

Lab Sample ID: 310-201472-8

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-------------------------------------|--------|-----------|-----|-----|------------|---------|---|----------------|-----------|
| Carbonate Alkalinity as CaCO3 | 49 | | 5.0 | 2.3 | mg/L | 1 | | SM 2320B | Total/NA |
| Total Alkalinity as CaCO3 to pH 4.5 | 84 | | 5.0 | 2.3 | mg/L | 1 | | SM 2320B | Total/NA |
| Ground Water Elevation | 521.01 | | | | ft | 1 | | Field Sampling | Total/NA |
| Oxidation Reduction Potential | -233.0 | | | | millivolts | 1 | | Field Sampling | Total/NA |
| Oxygen, Dissolved, Client Supplied | 0.38 | | | | mg/L | 1 | | Field Sampling | Total/NA |
| pH, Field | 9.96 | | | | SU | 1 | | Field Sampling | Total/NA |
| Specific Conductance, Field | 552 | | | | umhos/cm | 1 | | Field Sampling | Total/NA |
| Temperature, Field | 14.0 | | | | Degrees C | 1 | | Field Sampling | Total/NA |
| Turbidity, Field | 0.49 | | | | NTU | 1 | | Field Sampling | Total/NA |

Client Sample ID: MW-307A

Lab Sample ID: 310-201472-9

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-------------------------------------|--------|-----------|------|-----|------------|---------|---|----------------|-----------|
| Iron | 510 | | 100 | 36 | ug/L | 1 | | 6020A | Total/NA |
| Magnesium | 1500 | | 500 | 100 | ug/L | 1 | | 6020A | Total/NA |
| Manganese | 360 | | 10 | 4.4 | ug/L | 1 | | 6020A | Total/NA |
| Potassium | 3200 | | 500 | 150 | ug/L | 1 | | 6020A | Total/NA |
| Sodium | 110000 | | 1000 | 610 | ug/L | 1 | | 6020A | Total/NA |
| Iron | 450 | | 100 | 36 | ug/L | 1 | | 6020A | Dissolved |
| Lithium | 9.6 | J | 10 | 2.5 | ug/L | 1 | | 6020A | Dissolved |
| Manganese | 360 | | 10 | 4.4 | ug/L | 1 | | 6020A | Dissolved |
| Molybdenum | 120 | | 2.0 | 1.3 | ug/L | 1 | | 6020A | Dissolved |
| Bicarbonate Alkalinity as CaCO3 | 94 | | 5.0 | 2.3 | mg/L | 1 | | SM 2320B | Total/NA |
| Total Alkalinity as CaCO3 to pH 4.5 | 94 | | 5.0 | 2.3 | mg/L | 1 | | SM 2320B | Total/NA |
| Ground Water Elevation | 520.52 | | | | ft | 1 | | Field Sampling | Total/NA |
| Oxidation Reduction Potential | -171.0 | | | | millivolts | 1 | | Field Sampling | Total/NA |
| Oxygen, Dissolved, Client Supplied | 0.29 | | | | mg/L | 1 | | Field Sampling | Total/NA |
| pH, Field | 7.66 | | | | SU | 1 | | Field Sampling | Total/NA |
| Specific Conductance, Field | 568 | | | | umhos/cm | 1 | | Field Sampling | Total/NA |
| Temperature, Field | 14.0 | | | | Degrees C | 1 | | Field Sampling | Total/NA |
| Turbidity, Field | 0.95 | | | | NTU | 1 | | Field Sampling | Total/NA |

Client Sample ID: MW-308

Lab Sample ID: 310-201472-10

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-------------------------------------|--------|-----------|------|-----|------------|---------|---|----------------|-----------|
| Magnesium | 1600 | | 500 | 100 | ug/L | 1 | | 6020A | Total/NA |
| Manganese | 210 | | 10 | 4.4 | ug/L | 1 | | 6020A | Total/NA |
| Potassium | 38000 | | 500 | 150 | ug/L | 1 | | 6020A | Total/NA |
| Sodium | 85000 | | 1000 | 610 | ug/L | 1 | | 6020A | Total/NA |
| Lithium | 54 | | 10 | 2.5 | ug/L | 1 | | 6020A | Dissolved |
| Manganese | 210 | | 10 | 4.4 | ug/L | 1 | | 6020A | Dissolved |
| Molybdenum | 110 | | 2.0 | 1.3 | ug/L | 1 | | 6020A | Dissolved |
| Bicarbonate Alkalinity as CaCO3 | 69 | | 5.0 | 2.3 | mg/L | 1 | | SM 2320B | Total/NA |
| Carbonate Alkalinity as CaCO3 | 39 | | 5.0 | 2.3 | mg/L | 1 | | SM 2320B | Total/NA |
| Total Alkalinity as CaCO3 to pH 4.5 | 110 | | 5.0 | 2.3 | mg/L | 1 | | SM 2320B | Total/NA |
| Ground Water Elevation | 520.70 | | | | ft | 1 | | Field Sampling | Total/NA |
| Oxidation Reduction Potential | -207.2 | | | | millivolts | 1 | | Field Sampling | Total/NA |
| Oxygen, Dissolved, Client Supplied | 0.11 | | | | mg/L | 1 | | Field Sampling | Total/NA |
| pH, Field | 9.40 | | | | SU | 1 | | Field Sampling | Total/NA |
| Specific Conductance, Field | 695 | | | | umhos/cm | 1 | | Field Sampling | Total/NA |
| Temperature, Field | 13.9 | | | | Degrees C | 1 | | Field Sampling | Total/NA |
| Turbidity, Field | 0.02 | | | | NTU | 1 | | Field Sampling | Total/NA |

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Cedar Falls

Detection Summary

Client: SCS Engineers
Project/Site: Alliant-Burlington 25221066

Job ID: 310-201472-1

Client Sample ID: MW-309

Lab Sample ID: 310-201472-11

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-------------------------------------|--------|-----------|------|-----|------------|---------|---|----------------|-----------|
| Iron | 11000 | | 100 | 36 | ug/L | 1 | | 6020A | Total/NA |
| Magnesium | 18000 | | 500 | 100 | ug/L | 1 | | 6020A | Total/NA |
| Manganese | 2500 | | 10 | 4.4 | ug/L | 1 | | 6020A | Total/NA |
| Potassium | 2600 | | 500 | 150 | ug/L | 1 | | 6020A | Total/NA |
| Sodium | 97000 | | 1000 | 610 | ug/L | 1 | | 6020A | Total/NA |
| Iron | 9300 | | 100 | 36 | ug/L | 1 | | 6020A | Dissolved |
| Manganese | 2500 | | 10 | 4.4 | ug/L | 1 | | 6020A | Dissolved |
| Molybdenum | 56 | | 2.0 | 1.3 | ug/L | 1 | | 6020A | Dissolved |
| Bicarbonate Alkalinity as CaCO3 | 250 | | 5.0 | 2.3 | mg/L | 1 | | SM 2320B | Total/NA |
| Total Alkalinity as CaCO3 to pH 4.5 | 250 | | 5.0 | 2.3 | mg/L | 1 | | SM 2320B | Total/NA |
| Ground Water Elevation | 520.75 | | | | ft | 1 | | Field Sampling | Total/NA |
| Oxidation Reduction Potential | -196.3 | | | | millivolts | 1 | | Field Sampling | Total/NA |
| Oxygen, Dissolved, Client Supplied | 0.12 | | | | mg/L | 1 | | Field Sampling | Total/NA |
| pH, Field | 7.22 | | | | SU | 1 | | Field Sampling | Total/NA |
| Specific Conductance, Field | 816 | | | | umhos/cm | 1 | | Field Sampling | Total/NA |
| Temperature, Field | 13.7 | | | | Degrees C | 1 | | Field Sampling | Total/NA |
| Turbidity, Field | 13.80 | | | | NTU | 1 | | Field Sampling | Total/NA |

Client Sample ID: MW-310A

Lab Sample ID: 310-201472-12

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-------------------------------------|--------|-----------|------|-----|------------|---------|---|----------------|-----------|
| Iron | 1900 | | 100 | 36 | ug/L | 1 | | 6020A | Total/NA |
| Magnesium | 25000 | | 500 | 100 | ug/L | 1 | | 6020A | Total/NA |
| Manganese | 330 | | 10 | 4.4 | ug/L | 1 | | 6020A | Total/NA |
| Potassium | 6600 | | 500 | 150 | ug/L | 1 | | 6020A | Total/NA |
| Sodium | 170000 | | 1000 | 610 | ug/L | 1 | | 6020A | Total/NA |
| Iron | 2100 | | 100 | 36 | ug/L | 1 | | 6020A | Dissolved |
| Manganese | 300 | | 10 | 4.4 | ug/L | 1 | | 6020A | Dissolved |
| Bicarbonate Alkalinity as CaCO3 | 400 | | 5.0 | 2.3 | mg/L | 1 | | SM 2320B | Total/NA |
| Total Alkalinity as CaCO3 to pH 4.5 | 400 | | 5.0 | 2.3 | mg/L | 1 | | SM 2320B | Total/NA |
| Ground Water Elevation | 487.06 | | | | ft | 1 | | Field Sampling | Total/NA |
| Oxidation Reduction Potential | 145.9 | | | | millivolts | 1 | | Field Sampling | Total/NA |
| Oxygen, Dissolved, Client Supplied | 3.10 | | | | mg/L | 1 | | Field Sampling | Total/NA |
| pH, Field | 7.22 | | | | SU | 1 | | Field Sampling | Total/NA |
| Specific Conductance, Field | 1051 | | | | umhos/cm | 1 | | Field Sampling | Total/NA |
| Temperature, Field | 13.2 | | | | Degrees C | 1 | | Field Sampling | Total/NA |
| Turbidity, Field | --- | | | | NTU | 1 | | Field Sampling | Total/NA |

Client Sample ID: MW-311

Lab Sample ID: 310-201472-13

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-------------------------------------|--------|-----------|------|-----|------------|---------|---|----------------|-----------|
| Iron | 21000 | | 100 | 36 | ug/L | 1 | | 6020A | Total/NA |
| Magnesium | 39000 | | 500 | 100 | ug/L | 1 | | 6020A | Total/NA |
| Manganese | 5700 | | 40 | 18 | ug/L | 4 | | 6020A | Total/NA |
| Potassium | 2200 | | 500 | 150 | ug/L | 1 | | 6020A | Total/NA |
| Sodium | 65000 | | 1000 | 610 | ug/L | 1 | | 6020A | Total/NA |
| Iron | 21000 | | 100 | 36 | ug/L | 1 | | 6020A | Dissolved |
| Manganese | 5400 | | 40 | 18 | ug/L | 4 | | 6020A | Dissolved |
| Bicarbonate Alkalinity as CaCO3 | 400 | | 5.0 | 2.3 | mg/L | 1 | | SM 2320B | Total/NA |
| Total Alkalinity as CaCO3 to pH 4.5 | 400 | | 5.0 | 2.3 | mg/L | 1 | | SM 2320B | Total/NA |
| Ground Water Elevation | 522.89 | | | | ft | 1 | | Field Sampling | Total/NA |
| Oxidation Reduction Potential | -179.2 | | | | millivolts | 1 | | Field Sampling | Total/NA |

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Cedar Falls

Detection Summary

Client: SCS Engineers
Project/Site: Alliant-Burlington 25221066

Job ID: 310-201472-1

Client Sample ID: MW-311 (Continued)

Lab Sample ID: 310-201472-13

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------------------|--------|-----------|----|-----|-----------|---------|---|----------------|-----------|
| Oxygen, Dissolved, Client Supplied | 0.13 | | | | mg/L | 1 | | Field Sampling | Total/NA |
| pH, Field | 6.99 | | | | SU | 1 | | Field Sampling | Total/NA |
| Specific Conductance, Field | 1363 | | | | umhos/cm | 1 | | Field Sampling | Total/NA |
| Temperature, Field | 11.5 | | | | Degrees C | 1 | | Field Sampling | Total/NA |
| Turbidity, Field | 1.33 | | | | NTU | 1 | | Field Sampling | Total/NA |

Client Sample ID: MW-312

Lab Sample ID: 310-201472-14

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-------------------------------------|--------|-----------|------|-----|------------|---------|---|----------------|-----------|
| Iron | 10000 | | 100 | 36 | ug/L | 1 | | 6020A | Total/NA |
| Magnesium | 12000 | | 500 | 100 | ug/L | 1 | | 6020A | Total/NA |
| Manganese | 7900 | | 40 | 18 | ug/L | 4 | | 6020A | Total/NA |
| Potassium | 13000 | | 500 | 150 | ug/L | 1 | | 6020A | Total/NA |
| Sodium | 74000 | | 1000 | 610 | ug/L | 1 | | 6020A | Total/NA |
| Iron | 9800 | | 100 | 36 | ug/L | 1 | | 6020A | Dissolved |
| Manganese | 7500 | | 40 | 18 | ug/L | 4 | | 6020A | Dissolved |
| Molybdenum | 300 | | 2.0 | 1.3 | ug/L | 1 | | 6020A | Dissolved |
| Bicarbonate Alkalinity as CaCO3 | 190 | | 10 | 4.6 | mg/L | 1 | | SM 2320B | Total/NA |
| Total Alkalinity as CaCO3 to pH 4.5 | 190 | | 10 | 4.6 | mg/L | 1 | | SM 2320B | Total/NA |
| Ground Water Elevation | 520.12 | | | | ft | 1 | | Field Sampling | Total/NA |
| Oxidation Reduction Potential | -192.4 | | | | millivolts | 1 | | Field Sampling | Total/NA |
| Oxygen, Dissolved, Client Supplied | 0.14 | | | | mg/L | 1 | | Field Sampling | Total/NA |
| pH, Field | 7.07 | | | | SU | 1 | | Field Sampling | Total/NA |
| Specific Conductance, Field | 814 | | | | umhos/cm | 1 | | Field Sampling | Total/NA |
| Temperature, Field | 14.1 | | | | Degrees C | 1 | | Field Sampling | Total/NA |
| Turbidity, Field | 0.89 | | | | NTU | 1 | | Field Sampling | Total/NA |

Client Sample ID: MW-313

Lab Sample ID: 310-201472-15

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-------------------------------------|--------|-----------|------|-----|------------|---------|---|----------------|-----------|
| Iron | 19000 | | 100 | 36 | ug/L | 1 | | 6020A | Total/NA |
| Magnesium | 28000 | | 500 | 100 | ug/L | 1 | | 6020A | Total/NA |
| Manganese | 8100 | | 40 | 18 | ug/L | 4 | | 6020A | Total/NA |
| Potassium | 9500 | | 500 | 150 | ug/L | 1 | | 6020A | Total/NA |
| Sodium | 82000 | | 1000 | 610 | ug/L | 1 | | 6020A | Total/NA |
| Iron | 18000 | | 100 | 36 | ug/L | 1 | | 6020A | Dissolved |
| Lithium | 36 | | 10 | 2.5 | ug/L | 1 | | 6020A | Dissolved |
| Manganese | 7300 | | 40 | 18 | ug/L | 4 | | 6020A | Dissolved |
| Molybdenum | 150 | | 2.0 | 1.3 | ug/L | 1 | | 6020A | Dissolved |
| Bicarbonate Alkalinity as CaCO3 | 310 | | 5.0 | 2.3 | mg/L | 1 | | SM 2320B | Total/NA |
| Total Alkalinity as CaCO3 to pH 4.5 | 310 | | 5.0 | 2.3 | mg/L | 1 | | SM 2320B | Total/NA |
| Ground Water Elevation | 520.18 | | | | ft | 1 | | Field Sampling | Total/NA |
| Oxidation Reduction Potential | -148.0 | | | | millivolts | 1 | | Field Sampling | Total/NA |
| Oxygen, Dissolved, Client Supplied | 0.13 | | | | mg/L | 1 | | Field Sampling | Total/NA |
| pH, Field | 6.98 | | | | SU | 1 | | Field Sampling | Total/NA |
| Specific Conductance, Field | 1224 | | | | umhos/cm | 1 | | Field Sampling | Total/NA |
| Temperature, Field | 14.8 | | | | Degrees C | 1 | | Field Sampling | Total/NA |
| Turbidity, Field | 7.46 | | | | NTU | 1 | | Field Sampling | Total/NA |

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Cedar Falls

Detection Summary

Client: SCS Engineers
 Project/Site: Alliant-Burlington 25221066

Job ID: 310-201472-1

Client Sample ID: MW-313A

Lab Sample ID: 310-201472-16

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-------------------------------------|--------|-----------|------|-----|------------|---------|---|----------------|-----------|
| Iron | 1400 | | 100 | 36 | ug/L | 1 | | 6020A | Total/NA |
| Magnesium | 3400 | | 500 | 100 | ug/L | 1 | | 6020A | Total/NA |
| Manganese | 530 | | 10 | 4.4 | ug/L | 1 | | 6020A | Total/NA |
| Potassium | 11000 | | 500 | 150 | ug/L | 1 | | 6020A | Total/NA |
| Sodium | 150000 | | 1000 | 610 | ug/L | 1 | | 6020A | Total/NA |
| Iron | 1400 | | 100 | 36 | ug/L | 1 | | 6020A | Dissolved |
| Lithium | 15 | | 10 | 2.5 | ug/L | 1 | | 6020A | Dissolved |
| Manganese | 530 | | 10 | 4.4 | ug/L | 1 | | 6020A | Dissolved |
| Molybdenum | 100 | | 2.0 | 1.3 | ug/L | 1 | | 6020A | Dissolved |
| Bicarbonate Alkalinity as CaCO3 | 94 | | 5.0 | 2.3 | mg/L | 1 | | SM 2320B | Total/NA |
| Total Alkalinity as CaCO3 to pH 4.5 | 94 | | 5.0 | 2.3 | mg/L | 1 | | SM 2320B | Total/NA |
| Ground Water Elevation | 520.02 | | | | ft | 1 | | Field Sampling | Total/NA |
| Oxidation Reduction Potential | -195.9 | | | | millivolts | 1 | | Field Sampling | Total/NA |
| Oxygen, Dissolved, Client Supplied | 0.12 | | | | mg/L | 1 | | Field Sampling | Total/NA |
| pH, Field | 7.48 | | | | SU | 1 | | Field Sampling | Total/NA |
| Specific Conductance, Field | 927 | | | | umhos/cm | 1 | | Field Sampling | Total/NA |
| Temperature, Field | 14.1 | | | | Degrees C | 1 | | Field Sampling | Total/NA |
| Turbidity, Field | 0.78 | | | | NTU | 1 | | Field Sampling | Total/NA |

Client Sample ID: Field Blank

Lab Sample ID: 310-201472-17

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Cedar Falls

Client Sample Results

Client: SCS Engineers
 Project/Site: Alliant-Burlington 25221066

Job ID: 310-201472-1

Client Sample ID: MW-301

Lab Sample ID: 310-201472-1

Date Collected: 03/01/21 10:58

Matrix: Water

Date Received: 03/03/21 17:00

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-----|------|---|----------------|----------------|---------|
| Iron | 40000 | | 100 | 36 | ug/L | | 03/05/21 09:00 | 03/11/21 19:05 | 1 |
| Magnesium | 68000 | | 500 | 100 | ug/L | | 03/05/21 09:00 | 03/11/21 19:05 | 1 |
| Manganese | 13000 | | 70 | 31 | ug/L | | 03/05/21 09:00 | 03/12/21 12:47 | 7 |
| Potassium | 4000 | | 500 | 150 | ug/L | | 03/05/21 09:00 | 03/11/21 19:05 | 1 |
| Sodium | 50000 | | 1000 | 610 | ug/L | | 03/05/21 09:00 | 03/11/21 19:05 | 1 |

Method: 6020A - Metals (ICP/MS) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Iron | 41000 | | 100 | 36 | ug/L | | 03/05/21 09:00 | 03/11/21 17:20 | 1 |
| Manganese | 13000 | | 70 | 31 | ug/L | | 03/05/21 09:00 | 03/12/21 12:28 | 7 |
| Molybdenum | 41 | | 2.0 | 1.3 | ug/L | | 03/05/21 09:00 | 03/11/21 17:20 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Bicarbonate Alkalinity as CaCO3 | 800 | | 10 | 4.6 | mg/L | | | 03/08/21 10:22 | 1 |
| Carbonate Alkalinity as CaCO3 | <4.6 | | 10 | 4.6 | mg/L | | | 03/08/21 10:22 | 1 |
| Total Alkalinity as CaCO3 to pH 4.5 | 800 | | 10 | 4.6 | mg/L | | | 03/08/21 10:22 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|--------|-----------|----|-----|------------|---|----------|----------------|---------|
| Ground Water Elevation | 521.10 | | | | ft | | | 03/01/21 10:58 | 1 |
| Oxidation Reduction Potential | -176.6 | | | | millivolts | | | 03/01/21 10:58 | 1 |
| Oxygen, Dissolved, Client Supplied | 0.16 | | | | mg/L | | | 03/01/21 10:58 | 1 |
| pH, Field | 6.88 | | | | SU | | | 03/01/21 10:58 | 1 |
| Specific Conductance, Field | 1562 | | | | umhos/cm | | | 03/01/21 10:58 | 1 |
| Temperature, Field | 12.2 | | | | Degrees C | | | 03/01/21 10:58 | 1 |
| Turbidity, Field | 3.50 | | | | NTU | | | 03/01/21 10:58 | 1 |

Client Sample Results

Client: SCS Engineers
 Project/Site: Alliant-Burlington 25221066

Job ID: 310-201472-1

Client Sample ID: MW-302

Lab Sample ID: 310-201472-2

Date Collected: 03/01/21 12:10

Matrix: Water

Date Received: 03/03/21 17:00

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-----|------|---|----------------|----------------|---------|
| Iron | 2400 | | 100 | 36 | ug/L | | 03/05/21 09:00 | 03/11/21 19:15 | 1 |
| Magnesium | 15000 | | 500 | 100 | ug/L | | 03/05/21 09:00 | 03/11/21 19:15 | 1 |
| Manganese | 1300 | | 10 | 4.4 | ug/L | | 03/05/21 09:00 | 03/11/21 19:15 | 1 |
| Potassium | 13000 | | 500 | 150 | ug/L | | 03/05/21 09:00 | 03/11/21 19:15 | 1 |
| Sodium | 27000 | | 1000 | 610 | ug/L | | 03/05/21 09:00 | 03/11/21 19:15 | 1 |

Method: 6020A - Metals (ICP/MS) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Iron | 2000 | | 100 | 36 | ug/L | | 03/05/21 09:00 | 03/11/21 17:41 | 1 |
| Lithium | 66 | | 10 | 2.5 | ug/L | | 03/05/21 09:00 | 03/11/21 17:41 | 1 |
| Manganese | 1300 | | 10 | 4.4 | ug/L | | 03/05/21 09:00 | 03/11/21 17:41 | 1 |
| Molybdenum | 130 | | 2.0 | 1.3 | ug/L | | 03/05/21 09:00 | 03/11/21 17:41 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Bicarbonate Alkalinity as CaCO3 | 190 | | 9.1 | 4.2 | mg/L | | | 03/08/21 10:22 | 1 |
| Carbonate Alkalinity as CaCO3 | <4.2 | | 9.1 | 4.2 | mg/L | | | 03/08/21 10:22 | 1 |
| Total Alkalinity as CaCO3 to pH 4.5 | 190 | | 9.1 | 4.2 | mg/L | | | 03/08/21 10:22 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|--------|-----------|----|-----|------------|---|----------|----------------|---------|
| Ground Water Elevation | 520.21 | | | | ft | | | 03/01/21 12:10 | 1 |
| Oxidation Reduction Potential | -236.9 | | | | millivolts | | | 03/01/21 12:10 | 1 |
| Oxygen, Dissolved, Client Supplied | 0.11 | | | | mg/L | | | 03/01/21 12:10 | 1 |
| pH, Field | 7.95 | | | | SU | | | 03/01/21 12:10 | 1 |
| Specific Conductance, Field | 1101 | | | | umhos/cm | | | 03/01/21 12:10 | 1 |
| Temperature, Field | 12.3 | | | | Degrees C | | | 03/01/21 12:10 | 1 |
| Turbidity, Field | 2.70 | | | | NTU | | | 03/01/21 12:10 | 1 |

Client Sample Results

Client: SCS Engineers
 Project/Site: Alliant-Burlington 25221066

Job ID: 310-201472-1

Client Sample ID: MW-302A

Lab Sample ID: 310-201472-3

Date Collected: 03/01/21 13:02

Matrix: Water

Date Received: 03/03/21 17:00

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-----|------|---|----------------|----------------|---------|
| Iron | 8300 | | 100 | 36 | ug/L | | 03/05/21 09:00 | 03/11/21 19:18 | 1 |
| Magnesium | 32000 | | 500 | 100 | ug/L | | 03/05/21 09:00 | 03/11/21 19:18 | 1 |
| Manganese | 3300 | | 10 | 4.4 | ug/L | | 03/05/21 09:00 | 03/11/21 19:18 | 1 |
| Potassium | 3600 | | 500 | 150 | ug/L | | 03/05/21 09:00 | 03/11/21 19:18 | 1 |
| Sodium | 32000 | | 1000 | 610 | ug/L | | 03/05/21 09:00 | 03/11/21 19:18 | 1 |

Method: 6020A - Metals (ICP/MS) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Iron | 8600 | | 100 | 36 | ug/L | | 03/05/21 09:00 | 03/11/21 17:43 | 1 |
| Lithium | 12 | | 10 | 2.5 | ug/L | | 03/05/21 09:00 | 03/11/21 17:43 | 1 |
| Manganese | 3500 | | 10 | 4.4 | ug/L | | 03/05/21 09:00 | 03/11/21 17:43 | 1 |
| Molybdenum | 90 | | 2.0 | 1.3 | ug/L | | 03/05/21 09:00 | 03/11/21 17:43 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Bicarbonate Alkalinity as CaCO3 | 180 | | 9.1 | 4.2 | mg/L | | | 03/08/21 10:22 | 1 |
| Carbonate Alkalinity as CaCO3 | <4.2 | | 9.1 | 4.2 | mg/L | | | 03/08/21 10:22 | 1 |
| Total Alkalinity as CaCO3 to pH 4.5 | 180 | | 9.1 | 4.2 | mg/L | | | 03/08/21 10:22 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|--------|-----------|----|-----|------------|---|----------|----------------|---------|
| Ground Water Elevation | 520.14 | | | | ft | | | 03/01/21 13:02 | 1 |
| Oxidation Reduction Potential | -165.6 | | | | millivolts | | | 03/01/21 13:02 | 1 |
| Oxygen, Dissolved, Client Supplied | 0.16 | | | | mg/L | | | 03/01/21 13:02 | 1 |
| pH, Field | 7.20 | | | | SU | | | 03/01/21 13:02 | 1 |
| Specific Conductance, Field | 975 | | | | umhos/cm | | | 03/01/21 13:02 | 1 |
| Temperature, Field | 12.5 | | | | Degrees C | | | 03/01/21 13:02 | 1 |
| Turbidity, Field | 0.48 | | | | NTU | | | 03/01/21 13:02 | 1 |

Client Sample Results

Client: SCS Engineers
 Project/Site: Alliant-Burlington 25221066

Job ID: 310-201472-1

Client Sample ID: MW-303

Lab Sample ID: 310-201472-4

Date Collected: 03/01/21 14:03

Matrix: Water

Date Received: 03/03/21 17:00

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-----|------|---|----------------|----------------|---------|
| Iron | 7600 | | 100 | 36 | ug/L | | 03/05/21 09:00 | 03/11/21 19:20 | 1 |
| Magnesium | 20000 | | 500 | 100 | ug/L | | 03/05/21 09:00 | 03/11/21 19:20 | 1 |
| Manganese | 3400 | | 10 | 4.4 | ug/L | | 03/05/21 09:00 | 03/11/21 19:20 | 1 |
| Potassium | 22000 | | 500 | 150 | ug/L | | 03/05/21 09:00 | 03/11/21 19:20 | 1 |
| Sodium | 33000 | | 1000 | 610 | ug/L | | 03/05/21 09:00 | 03/11/21 19:20 | 1 |

Method: 6020A - Metals (ICP/MS) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Iron | 7600 | | 100 | 36 | ug/L | | 03/05/21 09:00 | 03/11/21 17:46 | 1 |
| Lithium | 66 | | 10 | 2.5 | ug/L | | 03/05/21 09:00 | 03/11/21 17:46 | 1 |
| Manganese | 3400 | | 10 | 4.4 | ug/L | | 03/05/21 09:00 | 03/11/21 17:46 | 1 |
| Molybdenum | 120 | | 2.0 | 1.3 | ug/L | | 03/05/21 09:00 | 03/11/21 17:46 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Bicarbonate Alkalinity as CaCO3 | 210 | | 10 | 4.6 | mg/L | | | 03/08/21 10:22 | 1 |
| Carbonate Alkalinity as CaCO3 | <4.6 | | 10 | 4.6 | mg/L | | | 03/08/21 10:22 | 1 |
| Total Alkalinity as CaCO3 to pH 4.5 | 210 | | 10 | 4.6 | mg/L | | | 03/08/21 10:22 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|--------|-----------|----|-----|------------|---|----------|----------------|---------|
| Ground Water Elevation | 520.09 | | | | ft | | | 03/01/21 14:03 | 1 |
| Oxidation Reduction Potential | -174.2 | | | | millivolts | | | 03/01/21 14:03 | 1 |
| Oxygen, Dissolved, Client Supplied | 0.12 | | | | mg/L | | | 03/01/21 14:03 | 1 |
| pH, Field | 7.15 | | | | SU | | | 03/01/21 14:03 | 1 |
| Specific Conductance, Field | 916 | | | | umhos/cm | | | 03/01/21 14:03 | 1 |
| Temperature, Field | 13.6 | | | | Degrees C | | | 03/01/21 14:03 | 1 |
| Turbidity, Field | 1.82 | | | | NTU | | | 03/01/21 14:03 | 1 |

Client Sample Results

Client: SCS Engineers
Project/Site: Alliant-Burlington 25221066

Job ID: 310-201472-1

Client Sample ID: MW-304

Lab Sample ID: 310-201472-5

Date Collected: 03/01/21 15:22

Matrix: Water

Date Received: 03/03/21 17:00

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-----|------|---|----------------|----------------|---------|
| Iron | 1200 | | 100 | 36 | ug/L | | 03/05/21 09:00 | 03/11/21 19:23 | 1 |
| Magnesium | 5200 | | 500 | 100 | ug/L | | 03/05/21 09:00 | 03/11/21 19:23 | 1 |
| Manganese | 750 | | 10 | 4.4 | ug/L | | 03/05/21 09:00 | 03/11/21 19:23 | 1 |
| Potassium | 15000 | | 500 | 150 | ug/L | | 03/05/21 09:00 | 03/11/21 19:23 | 1 |
| Sodium | 46000 | | 1000 | 610 | ug/L | | 03/05/21 09:00 | 03/11/21 19:23 | 1 |

Method: 6020A - Metals (ICP/MS) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Iron | 1100 | | 100 | 36 | ug/L | | 03/05/21 09:00 | 03/11/21 17:48 | 1 |
| Lithium | 86 | | 10 | 2.5 | ug/L | | 03/05/21 09:00 | 03/11/21 17:48 | 1 |
| Manganese | 760 | | 10 | 4.4 | ug/L | | 03/05/21 09:00 | 03/11/21 17:48 | 1 |
| Molybdenum | 140 | | 2.0 | 1.3 | ug/L | | 03/05/21 09:00 | 03/11/21 17:48 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Bicarbonate Alkalinity as CaCO3 | 130 | | 5.6 | 2.6 | mg/L | | | 03/08/21 10:22 | 1 |
| Carbonate Alkalinity as CaCO3 | <2.6 | | 5.6 | 2.6 | mg/L | | | 03/08/21 10:22 | 1 |
| Total Alkalinity as CaCO3 to pH 4.5 | 130 | | 5.6 | 2.6 | mg/L | | | 03/08/21 10:22 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|--------|-----------|----|-----|------------|---|----------|----------------|---------|
| Ground Water Elevation | 520.15 | | | | ft | | | 03/01/21 15:22 | 1 |
| Oxidation Reduction Potential | -280.2 | | | | millivolts | | | 03/01/21 15:22 | 1 |
| Oxygen, Dissolved, Client Supplied | 0.07 | | | | mg/L | | | 03/01/21 15:22 | 1 |
| pH, Field | 8.26 | | | | SU | | | 03/01/21 15:22 | 1 |
| Specific Conductance, Field | 971 | | | | umhos/cm | | | 03/01/21 15:22 | 1 |
| Temperature, Field | 14.1 | | | | Degrees C | | | 03/01/21 15:22 | 1 |
| Turbidity, Field | 0.02 | | | | NTU | | | 03/01/21 15:22 | 1 |

Client Sample Results

Client: SCS Engineers
 Project/Site: Alliant-Burlington 25221066

Job ID: 310-201472-1

Client Sample ID: MW-305

Lab Sample ID: 310-201472-6

Date Collected: 03/02/21 15:20

Matrix: Water

Date Received: 03/03/21 17:00

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-----|------|---|----------------|----------------|---------|
| Iron | 1900 | | 100 | 36 | ug/L | | 03/05/21 09:00 | 03/11/21 19:36 | 1 |
| Magnesium | 21000 | | 500 | 100 | ug/L | | 03/05/21 09:00 | 03/11/21 19:36 | 1 |
| Manganese | 1900 | | 10 | 4.4 | ug/L | | 03/05/21 09:00 | 03/11/21 19:36 | 1 |
| Potassium | 6300 | | 500 | 150 | ug/L | | 03/05/21 09:00 | 03/11/21 19:36 | 1 |
| Sodium | 47000 | | 1000 | 610 | ug/L | | 03/05/21 09:00 | 03/11/21 19:36 | 1 |

Method: 6020A - Metals (ICP/MS) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Iron | 1800 | | 100 | 36 | ug/L | | 03/05/21 09:00 | 03/11/21 17:51 | 1 |
| Manganese | 1900 | | 10 | 4.4 | ug/L | | 03/05/21 09:00 | 03/11/21 17:51 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Bicarbonate Alkalinity as CaCO3 | 410 | | 10 | 4.6 | mg/L | | | 03/08/21 10:22 | 1 |
| Carbonate Alkalinity as CaCO3 | <4.6 | | 10 | 4.6 | mg/L | | | 03/08/21 10:22 | 1 |
| Total Alkalinity as CaCO3 to pH 4.5 | 410 | | 10 | 4.6 | mg/L | | | 03/08/21 10:22 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|--------|-----------|----|-----|------------|---|----------|----------------|---------|
| Ground Water Elevation | 520.48 | | | | ft | | | 03/02/21 15:20 | 1 |
| Oxidation Reduction Potential | -154.0 | | | | millivolts | | | 03/02/21 15:20 | 1 |
| Oxygen, Dissolved, Client Supplied | 0.44 | | | | mg/L | | | 03/02/21 15:20 | 1 |
| pH, Field | 7.29 | | | | SU | | | 03/02/21 15:20 | 1 |
| Specific Conductance, Field | 865 | | | | umhos/cm | | | 03/02/21 15:20 | 1 |
| Temperature, Field | 14.8 | | | | Degrees C | | | 03/02/21 15:20 | 1 |
| Turbidity, Field | 0.02 | | | | NTU | | | 03/02/21 15:20 | 1 |

Client Sample Results

Client: SCS Engineers
 Project/Site: Alliant-Burlington 25221066

Job ID: 310-201472-1

Client Sample ID: MW-306

Lab Sample ID: 310-201472-7

Date Collected: 03/02/21 13:03

Matrix: Water

Date Received: 03/03/21 17:00

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-----|------|---|----------------|----------------|---------|
| Iron | 54 | J | 100 | 36 | ug/L | | 03/05/21 09:00 | 03/11/21 19:39 | 1 |
| Magnesium | <100 | | 500 | 100 | ug/L | | 03/05/21 09:00 | 03/11/21 19:39 | 1 |
| Manganese | 6.5 | J | 10 | 4.4 | ug/L | | 03/05/21 09:00 | 03/11/21 19:39 | 1 |
| Potassium | 19000 | | 500 | 150 | ug/L | | 03/05/21 09:00 | 03/11/21 19:39 | 1 |
| Sodium | 50000 | | 1000 | 610 | ug/L | | 03/05/21 09:00 | 03/11/21 19:39 | 1 |

Method: 6020A - Metals (ICP/MS) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Iron | <36 | | 100 | 36 | ug/L | | 03/05/21 09:00 | 03/11/21 17:54 | 1 |
| Lithium | 29 | | 10 | 2.5 | ug/L | | 03/05/21 09:00 | 03/11/21 17:54 | 1 |
| Manganese | 5.4 | J | 10 | 4.4 | ug/L | | 03/05/21 09:00 | 03/11/21 17:54 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Bicarbonate Alkalinity as CaCO3 | 68 | | 7.7 | 3.5 | mg/L | | | 03/08/21 10:22 | 1 |
| Carbonate Alkalinity as CaCO3 | 46 | | 7.7 | 3.5 | mg/L | | | 03/08/21 10:22 | 1 |
| Total Alkalinity as CaCO3 to pH 4.5 | 110 | | 7.7 | 3.5 | mg/L | | | 03/08/21 10:22 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|--------|-----------|----|-----|------------|---|----------|----------------|---------|
| Ground Water Elevation | 520.65 | | | | ft | | | 03/02/21 13:03 | 1 |
| Oxidation Reduction Potential | -196.0 | | | | millivolts | | | 03/02/21 13:03 | 1 |
| Oxygen, Dissolved, Client Supplied | 0.39 | | | | mg/L | | | 03/02/21 13:03 | 1 |
| pH, Field | 9.46 | | | | SU | | | 03/02/21 13:03 | 1 |
| Specific Conductance, Field | 415 | | | | umhos/cm | | | 03/02/21 13:03 | 1 |
| Temperature, Field | 14.1 | | | | Degrees C | | | 03/02/21 13:03 | 1 |
| Turbidity, Field | 0.02 | | | | NTU | | | 03/02/21 13:03 | 1 |

Client Sample Results

Client: SCS Engineers
 Project/Site: Alliant-Burlington 25221066

Job ID: 310-201472-1

Client Sample ID: MW-307

Lab Sample ID: 310-201472-8

Date Collected: 03/02/21 10:58

Matrix: Water

Date Received: 03/03/21 17:00

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|------|-----|------|---|----------------|----------------|---------|
| Iron | <36 | | 100 | 36 | ug/L | | 03/05/21 09:00 | 03/11/21 19:41 | 1 |
| Magnesium | <100 | | 500 | 100 | ug/L | | 03/05/21 09:00 | 03/11/21 19:41 | 1 |
| Manganese | 5.4 | J | 10 | 4.4 | ug/L | | 03/05/21 09:00 | 03/11/21 19:41 | 1 |
| Potassium | 38000 | | 500 | 150 | ug/L | | 03/05/21 09:00 | 03/11/21 19:41 | 1 |
| Sodium | 52000 | | 1000 | 610 | ug/L | | 03/05/21 09:00 | 03/11/21 19:41 | 1 |

Method: 6020A - Metals (ICP/MS) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------|------------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Iron | <36 | | 100 | 36 | ug/L | | 03/05/21 09:00 | 03/11/21 17:56 | 1 |
| Lithium | 52 | | 10 | 2.5 | ug/L | | 03/05/21 09:00 | 03/11/21 17:56 | 1 |
| Manganese | 5.3 | J | 10 | 4.4 | ug/L | | 03/05/21 09:00 | 03/11/21 17:56 | 1 |
| Molybdenum | 130 | | 2.0 | 1.3 | ug/L | | 03/05/21 09:00 | 03/11/21 17:56 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------------|-----------|-----------|-----|-----|------|---|----------|----------------|---------|
| Bicarbonate Alkalinity as CaCO3 | 35 | | 5.0 | 2.3 | mg/L | | | 03/08/21 10:22 | 1 |
| Carbonate Alkalinity as CaCO3 | 49 | | 5.0 | 2.3 | mg/L | | | 03/08/21 10:22 | 1 |
| Total Alkalinity as CaCO3 to pH 4.5 | 84 | | 5.0 | 2.3 | mg/L | | | 03/08/21 10:22 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------------|---------------|-----------|----|-----|------------|---|----------|----------------|---------|
| Ground Water Elevation | 521.01 | | | | ft | | | 03/02/21 10:58 | 1 |
| Oxidation Reduction Potential | -233.0 | | | | millivolts | | | 03/02/21 10:58 | 1 |
| Oxygen, Dissolved, Client Supplied | 0.38 | | | | mg/L | | | 03/02/21 10:58 | 1 |
| pH, Field | 9.96 | | | | SU | | | 03/02/21 10:58 | 1 |
| Specific Conductance, Field | 552 | | | | umhos/cm | | | 03/02/21 10:58 | 1 |
| Temperature, Field | 14.0 | | | | Degrees C | | | 03/02/21 10:58 | 1 |
| Turbidity, Field | 0.49 | | | | NTU | | | 03/02/21 10:58 | 1 |

Client Sample Results

Client: SCS Engineers
 Project/Site: Alliant-Burlington 25221066

Job ID: 310-201472-1

Client Sample ID: MW-307A

Lab Sample ID: 310-201472-9

Date Collected: 03/02/21 11:43

Matrix: Water

Date Received: 03/03/21 17:00

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-----|------|---|----------------|----------------|---------|
| Iron | 510 | | 100 | 36 | ug/L | | 03/05/21 09:00 | 03/11/21 19:44 | 1 |
| Magnesium | 1500 | | 500 | 100 | ug/L | | 03/05/21 09:00 | 03/11/21 19:44 | 1 |
| Manganese | 360 | | 10 | 4.4 | ug/L | | 03/05/21 09:00 | 03/11/21 19:44 | 1 |
| Potassium | 3200 | | 500 | 150 | ug/L | | 03/05/21 09:00 | 03/11/21 19:44 | 1 |
| Sodium | 110000 | | 1000 | 610 | ug/L | | 03/05/21 09:00 | 03/11/21 19:44 | 1 |

Method: 6020A - Metals (ICP/MS) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Iron | 450 | | 100 | 36 | ug/L | | 03/05/21 09:00 | 03/11/21 17:59 | 1 |
| Lithium | 9.6 | J | 10 | 2.5 | ug/L | | 03/05/21 09:00 | 03/11/21 17:59 | 1 |
| Manganese | 360 | | 10 | 4.4 | ug/L | | 03/05/21 09:00 | 03/11/21 17:59 | 1 |
| Molybdenum | 120 | | 2.0 | 1.3 | ug/L | | 03/05/21 09:00 | 03/11/21 17:59 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Bicarbonate Alkalinity as CaCO3 | 94 | | 5.0 | 2.3 | mg/L | | | 03/08/21 10:22 | 1 |
| Carbonate Alkalinity as CaCO3 | <2.3 | | 5.0 | 2.3 | mg/L | | | 03/08/21 10:22 | 1 |
| Total Alkalinity as CaCO3 to pH 4.5 | 94 | | 5.0 | 2.3 | mg/L | | | 03/08/21 10:22 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|--------|-----------|----|-----|------------|---|----------|----------------|---------|
| Ground Water Elevation | 520.52 | | | | ft | | | 03/02/21 11:43 | 1 |
| Oxidation Reduction Potential | -171.0 | | | | millivolts | | | 03/02/21 11:43 | 1 |
| Oxygen, Dissolved, Client Supplied | 0.29 | | | | mg/L | | | 03/02/21 11:43 | 1 |
| pH, Field | 7.66 | | | | SU | | | 03/02/21 11:43 | 1 |
| Specific Conductance, Field | 568 | | | | umhos/cm | | | 03/02/21 11:43 | 1 |
| Temperature, Field | 14.0 | | | | Degrees C | | | 03/02/21 11:43 | 1 |
| Turbidity, Field | 0.95 | | | | NTU | | | 03/02/21 11:43 | 1 |

Client Sample Results

Client: SCS Engineers
 Project/Site: Alliant-Burlington 25221066

Job ID: 310-201472-1

Client Sample ID: MW-308

Lab Sample ID: 310-201472-10

Date Collected: 03/02/21 09:03

Matrix: Water

Date Received: 03/03/21 17:00

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-----|------|---|----------------|----------------|---------|
| Iron | <36 | | 100 | 36 | ug/L | | 03/05/21 09:00 | 03/11/21 19:47 | 1 |
| Magnesium | 1600 | | 500 | 100 | ug/L | | 03/05/21 09:00 | 03/11/21 19:47 | 1 |
| Manganese | 210 | | 10 | 4.4 | ug/L | | 03/05/21 09:00 | 03/11/21 19:47 | 1 |
| Potassium | 38000 | | 500 | 150 | ug/L | | 03/05/21 09:00 | 03/11/21 19:47 | 1 |
| Sodium | 85000 | | 1000 | 610 | ug/L | | 03/05/21 09:00 | 03/11/21 19:47 | 1 |

Method: 6020A - Metals (ICP/MS) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Iron | <36 | | 100 | 36 | ug/L | | 03/05/21 09:00 | 03/11/21 18:02 | 1 |
| Lithium | 54 | | 10 | 2.5 | ug/L | | 03/05/21 09:00 | 03/11/21 18:02 | 1 |
| Manganese | 210 | | 10 | 4.4 | ug/L | | 03/05/21 09:00 | 03/11/21 18:02 | 1 |
| Molybdenum | 110 | | 2.0 | 1.3 | ug/L | | 03/05/21 09:00 | 03/11/21 18:02 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Bicarbonate Alkalinity as CaCO3 | 69 | | 5.0 | 2.3 | mg/L | | | 03/08/21 10:22 | 1 |
| Carbonate Alkalinity as CaCO3 | 39 | | 5.0 | 2.3 | mg/L | | | 03/08/21 10:22 | 1 |
| Total Alkalinity as CaCO3 to pH 4.5 | 110 | | 5.0 | 2.3 | mg/L | | | 03/08/21 10:22 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|--------|-----------|----|-----|------------|---|----------|----------------|---------|
| Ground Water Elevation | 520.70 | | | | ft | | | 03/02/21 09:03 | 1 |
| Oxidation Reduction Potential | -207.2 | | | | millivolts | | | 03/02/21 09:03 | 1 |
| Oxygen, Dissolved, Client Supplied | 0.11 | | | | mg/L | | | 03/02/21 09:03 | 1 |
| pH, Field | 9.40 | | | | SU | | | 03/02/21 09:03 | 1 |
| Specific Conductance, Field | 695 | | | | umhos/cm | | | 03/02/21 09:03 | 1 |
| Temperature, Field | 13.9 | | | | Degrees C | | | 03/02/21 09:03 | 1 |
| Turbidity, Field | 0.02 | | | | NTU | | | 03/02/21 09:03 | 1 |

Client Sample Results

Client: SCS Engineers
 Project/Site: Alliant-Burlington 25221066

Job ID: 310-201472-1

Client Sample ID: MW-309

Lab Sample ID: 310-201472-11

Date Collected: 03/01/21 09:36

Matrix: Water

Date Received: 03/03/21 17:00

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-----|------|---|----------------|----------------|---------|
| Iron | 11000 | | 100 | 36 | ug/L | | 03/05/21 09:00 | 03/11/21 19:49 | 1 |
| Magnesium | 18000 | | 500 | 100 | ug/L | | 03/05/21 09:00 | 03/11/21 19:49 | 1 |
| Manganese | 2500 | | 10 | 4.4 | ug/L | | 03/05/21 09:00 | 03/11/21 19:49 | 1 |
| Potassium | 2600 | | 500 | 150 | ug/L | | 03/05/21 09:00 | 03/11/21 19:49 | 1 |
| Sodium | 97000 | | 1000 | 610 | ug/L | | 03/05/21 09:00 | 03/11/21 19:49 | 1 |

Method: 6020A - Metals (ICP/MS) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Iron | 9300 | | 100 | 36 | ug/L | | 03/05/21 09:00 | 03/11/21 18:04 | 1 |
| Manganese | 2500 | | 10 | 4.4 | ug/L | | 03/05/21 09:00 | 03/11/21 18:04 | 1 |
| Molybdenum | 56 | | 2.0 | 1.3 | ug/L | | 03/05/21 09:00 | 03/11/21 18:04 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Bicarbonate Alkalinity as CaCO3 | 250 | | 5.0 | 2.3 | mg/L | | | 03/08/21 10:22 | 1 |
| Carbonate Alkalinity as CaCO3 | <2.3 | | 5.0 | 2.3 | mg/L | | | 03/08/21 10:22 | 1 |
| Total Alkalinity as CaCO3 to pH 4.5 | 250 | | 5.0 | 2.3 | mg/L | | | 03/08/21 10:22 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|--------|-----------|----|-----|------------|---|----------|----------------|---------|
| Ground Water Elevation | 520.75 | | | | ft | | | 03/01/21 09:36 | 1 |
| Oxidation Reduction Potential | -196.3 | | | | millivolts | | | 03/01/21 09:36 | 1 |
| Oxygen, Dissolved, Client Supplied | 0.12 | | | | mg/L | | | 03/01/21 09:36 | 1 |
| pH, Field | 7.22 | | | | SU | | | 03/01/21 09:36 | 1 |
| Specific Conductance, Field | 816 | | | | umhos/cm | | | 03/01/21 09:36 | 1 |
| Temperature, Field | 13.7 | | | | Degrees C | | | 03/01/21 09:36 | 1 |
| Turbidity, Field | 13.80 | | | | NTU | | | 03/01/21 09:36 | 1 |

Client Sample Results

Client: SCS Engineers
Project/Site: Alliant-Burlington 25221066

Job ID: 310-201472-1

Client Sample ID: MW-310A

Lab Sample ID: 310-201472-12

Date Collected: 03/03/21 07:40

Matrix: Water

Date Received: 03/03/21 17:00

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-----|------|---|----------------|----------------|---------|
| Iron | 1900 | | 100 | 36 | ug/L | | 03/05/21 09:00 | 03/11/21 19:54 | 1 |
| Magnesium | 25000 | | 500 | 100 | ug/L | | 03/05/21 09:00 | 03/11/21 19:54 | 1 |
| Manganese | 330 | | 10 | 4.4 | ug/L | | 03/05/21 09:00 | 03/11/21 19:54 | 1 |
| Potassium | 6600 | | 500 | 150 | ug/L | | 03/05/21 09:00 | 03/11/21 19:54 | 1 |
| Sodium | 170000 | | 1000 | 610 | ug/L | | 03/05/21 09:00 | 03/11/21 19:54 | 1 |

Method: 6020A - Metals (ICP/MS) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Iron | 2100 | | 100 | 36 | ug/L | | 03/05/21 09:00 | 03/11/21 18:20 | 1 |
| Manganese | 300 | | 10 | 4.4 | ug/L | | 03/05/21 09:00 | 03/11/21 18:20 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Bicarbonate Alkalinity as CaCO3 | 400 | | 5.0 | 2.3 | mg/L | | | 03/08/21 10:22 | 1 |
| Carbonate Alkalinity as CaCO3 | <2.3 | | 5.0 | 2.3 | mg/L | | | 03/08/21 10:22 | 1 |
| Total Alkalinity as CaCO3 to pH 4.5 | 400 | | 5.0 | 2.3 | mg/L | | | 03/08/21 10:22 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|--------|-----------|----|-----|------------|---|----------|----------------|---------|
| Ground Water Elevation | 487.06 | | | | ft | | | 03/03/21 07:40 | 1 |
| Oxidation Reduction Potential | 145.9 | | | | millivolts | | | 03/03/21 07:40 | 1 |
| Oxygen, Dissolved, Client Supplied | 3.10 | | | | mg/L | | | 03/03/21 07:40 | 1 |
| pH, Field | 7.22 | | | | SU | | | 03/03/21 07:40 | 1 |
| Specific Conductance, Field | 1051 | | | | umhos/cm | | | 03/03/21 07:40 | 1 |
| Temperature, Field | 13.2 | | | | Degrees C | | | 03/03/21 07:40 | 1 |
| Turbidity, Field | --- | | | | NTU | | | 03/03/21 07:40 | 1 |

Client Sample Results

Client: SCS Engineers
 Project/Site: Alliant-Burlington 25221066

Job ID: 310-201472-1

Client Sample ID: MW-311

Lab Sample ID: 310-201472-13

Date Collected: 03/01/21 08:50

Matrix: Water

Date Received: 03/03/21 17:00

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-----|------|---|----------------|----------------|---------|
| Iron | 21000 | | 100 | 36 | ug/L | | 03/05/21 09:00 | 03/11/21 19:57 | 1 |
| Magnesium | 39000 | | 500 | 100 | ug/L | | 03/05/21 09:00 | 03/11/21 19:57 | 1 |
| Manganese | 5700 | | 40 | 18 | ug/L | | 03/05/21 09:00 | 03/12/21 13:05 | 4 |
| Potassium | 2200 | | 500 | 150 | ug/L | | 03/05/21 09:00 | 03/11/21 19:57 | 1 |
| Sodium | 65000 | | 1000 | 610 | ug/L | | 03/05/21 09:00 | 03/11/21 19:57 | 1 |

Method: 6020A - Metals (ICP/MS) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Iron | 21000 | | 100 | 36 | ug/L | | 03/05/21 09:00 | 03/11/21 18:23 | 1 |
| Manganese | 5400 | | 40 | 18 | ug/L | | 03/05/21 09:00 | 03/12/21 12:36 | 4 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Bicarbonate Alkalinity as CaCO3 | 400 | | 5.0 | 2.3 | mg/L | | | 03/08/21 10:22 | 1 |
| Carbonate Alkalinity as CaCO3 | <2.3 | | 5.0 | 2.3 | mg/L | | | 03/08/21 10:22 | 1 |
| Total Alkalinity as CaCO3 to pH 4.5 | 400 | | 5.0 | 2.3 | mg/L | | | 03/08/21 10:22 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|--------|-----------|----|-----|------------|---|----------|----------------|---------|
| Ground Water Elevation | 522.89 | | | | ft | | | 03/01/21 08:50 | 1 |
| Oxidation Reduction Potential | -179.2 | | | | millivolts | | | 03/01/21 08:50 | 1 |
| Oxygen, Dissolved, Client Supplied | 0.13 | | | | mg/L | | | 03/01/21 08:50 | 1 |
| pH, Field | 6.99 | | | | SU | | | 03/01/21 08:50 | 1 |
| Specific Conductance, Field | 1363 | | | | umhos/cm | | | 03/01/21 08:50 | 1 |
| Temperature, Field | 11.5 | | | | Degrees C | | | 03/01/21 08:50 | 1 |
| Turbidity, Field | 1.33 | | | | NTU | | | 03/01/21 08:50 | 1 |

Client Sample Results

Client: SCS Engineers
 Project/Site: Alliant-Burlington 25221066

Job ID: 310-201472-1

Client Sample ID: MW-312

Lab Sample ID: 310-201472-14

Date Collected: 03/01/21 16:23

Matrix: Water

Date Received: 03/03/21 17:00

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-----|------|---|----------------|----------------|---------|
| Iron | 10000 | | 100 | 36 | ug/L | | 03/05/21 09:00 | 03/11/21 20:00 | 1 |
| Magnesium | 12000 | | 500 | 100 | ug/L | | 03/05/21 09:00 | 03/11/21 20:00 | 1 |
| Manganese | 7900 | | 40 | 18 | ug/L | | 03/05/21 09:00 | 03/12/21 13:08 | 4 |
| Potassium | 13000 | | 500 | 150 | ug/L | | 03/05/21 09:00 | 03/11/21 20:00 | 1 |
| Sodium | 74000 | | 1000 | 610 | ug/L | | 03/05/21 09:00 | 03/11/21 20:00 | 1 |

Method: 6020A - Metals (ICP/MS) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Iron | 9800 | | 100 | 36 | ug/L | | 03/05/21 09:00 | 03/11/21 18:25 | 1 |
| Manganese | 7500 | | 40 | 18 | ug/L | | 03/05/21 09:00 | 03/12/21 12:39 | 4 |
| Molybdenum | 300 | | 2.0 | 1.3 | ug/L | | 03/05/21 09:00 | 03/11/21 18:25 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Bicarbonate Alkalinity as CaCO3 | 190 | | 10 | 4.6 | mg/L | | | 03/08/21 10:22 | 1 |
| Carbonate Alkalinity as CaCO3 | <4.6 | | 10 | 4.6 | mg/L | | | 03/08/21 10:22 | 1 |
| Total Alkalinity as CaCO3 to pH 4.5 | 190 | | 10 | 4.6 | mg/L | | | 03/08/21 10:22 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|--------|-----------|----|-----|------------|---|----------|----------------|---------|
| Ground Water Elevation | 520.12 | | | | ft | | | 03/01/21 16:23 | 1 |
| Oxidation Reduction Potential | -192.4 | | | | millivolts | | | 03/01/21 16:23 | 1 |
| Oxygen, Dissolved, Client Supplied | 0.14 | | | | mg/L | | | 03/01/21 16:23 | 1 |
| pH, Field | 7.07 | | | | SU | | | 03/01/21 16:23 | 1 |
| Specific Conductance, Field | 814 | | | | umhos/cm | | | 03/01/21 16:23 | 1 |
| Temperature, Field | 14.1 | | | | Degrees C | | | 03/01/21 16:23 | 1 |
| Turbidity, Field | 0.89 | | | | NTU | | | 03/01/21 16:23 | 1 |

Client Sample Results

Client: SCS Engineers
 Project/Site: Alliant-Burlington 25221066

Job ID: 310-201472-1

Client Sample ID: MW-313

Lab Sample ID: 310-201472-15

Date Collected: 03/02/21 16:20

Matrix: Water

Date Received: 03/03/21 17:00

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-----|------|---|----------------|----------------|---------|
| Iron | 19000 | | 100 | 36 | ug/L | | 03/05/21 09:00 | 03/11/21 20:13 | 1 |
| Magnesium | 28000 | | 500 | 100 | ug/L | | 03/05/21 09:00 | 03/11/21 20:13 | 1 |
| Manganese | 8100 | | 40 | 18 | ug/L | | 03/05/21 09:00 | 03/12/21 13:11 | 4 |
| Potassium | 9500 | | 500 | 150 | ug/L | | 03/05/21 09:00 | 03/11/21 20:13 | 1 |
| Sodium | 82000 | | 1000 | 610 | ug/L | | 03/05/21 09:00 | 03/11/21 20:13 | 1 |

Method: 6020A - Metals (ICP/MS) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Iron | 18000 | | 100 | 36 | ug/L | | 03/05/21 09:00 | 03/11/21 18:28 | 1 |
| Lithium | 36 | | 10 | 2.5 | ug/L | | 03/05/21 09:00 | 03/11/21 18:28 | 1 |
| Manganese | 7300 | | 40 | 18 | ug/L | | 03/05/21 09:00 | 03/12/21 12:41 | 4 |
| Molybdenum | 150 | | 2.0 | 1.3 | ug/L | | 03/05/21 09:00 | 03/11/21 18:28 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Bicarbonate Alkalinity as CaCO3 | 310 | | 5.0 | 2.3 | mg/L | | | 03/08/21 10:22 | 1 |
| Carbonate Alkalinity as CaCO3 | <2.3 | | 5.0 | 2.3 | mg/L | | | 03/08/21 10:22 | 1 |
| Total Alkalinity as CaCO3 to pH 4.5 | 310 | | 5.0 | 2.3 | mg/L | | | 03/08/21 10:22 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|--------|-----------|----|-----|------------|---|----------|----------------|---------|
| Ground Water Elevation | 520.18 | | | | ft | | | 03/02/21 16:20 | 1 |
| Oxidation Reduction Potential | -148.0 | | | | millivolts | | | 03/02/21 16:20 | 1 |
| Oxygen, Dissolved, Client Supplied | 0.13 | | | | mg/L | | | 03/02/21 16:20 | 1 |
| pH, Field | 6.98 | | | | SU | | | 03/02/21 16:20 | 1 |
| Specific Conductance, Field | 1224 | | | | umhos/cm | | | 03/02/21 16:20 | 1 |
| Temperature, Field | 14.8 | | | | Degrees C | | | 03/02/21 16:20 | 1 |
| Turbidity, Field | 7.46 | | | | NTU | | | 03/02/21 16:20 | 1 |

Client Sample Results

Client: SCS Engineers
 Project/Site: Alliant-Burlington 25221066

Job ID: 310-201472-1

Client Sample ID: MW-313A

Lab Sample ID: 310-201472-16

Date Collected: 03/01/21 17:40

Matrix: Water

Date Received: 03/03/21 17:00

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-----|------|---|----------------|----------------|---------|
| Iron | 1400 | | 100 | 36 | ug/L | | 03/05/21 09:00 | 03/11/21 20:15 | 1 |
| Magnesium | 3400 | | 500 | 100 | ug/L | | 03/05/21 09:00 | 03/11/21 20:15 | 1 |
| Manganese | 530 | | 10 | 4.4 | ug/L | | 03/05/21 09:00 | 03/11/21 20:15 | 1 |
| Potassium | 11000 | | 500 | 150 | ug/L | | 03/05/21 09:00 | 03/11/21 20:15 | 1 |
| Sodium | 150000 | | 1000 | 610 | ug/L | | 03/05/21 09:00 | 03/11/21 20:15 | 1 |

Method: 6020A - Metals (ICP/MS) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Iron | 1400 | | 100 | 36 | ug/L | | 03/05/21 09:00 | 03/11/21 18:30 | 1 |
| Lithium | 15 | | 10 | 2.5 | ug/L | | 03/05/21 09:00 | 03/11/21 18:30 | 1 |
| Manganese | 530 | | 10 | 4.4 | ug/L | | 03/05/21 09:00 | 03/11/21 18:30 | 1 |
| Molybdenum | 100 | | 2.0 | 1.3 | ug/L | | 03/05/21 09:00 | 03/11/21 18:30 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Bicarbonate Alkalinity as CaCO3 | 94 | | 5.0 | 2.3 | mg/L | | | 03/08/21 10:22 | 1 |
| Carbonate Alkalinity as CaCO3 | <2.3 | | 5.0 | 2.3 | mg/L | | | 03/08/21 10:22 | 1 |
| Total Alkalinity as CaCO3 to pH 4.5 | 94 | | 5.0 | 2.3 | mg/L | | | 03/08/21 10:22 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|--------|-----------|----|-----|------------|---|----------|----------------|---------|
| Ground Water Elevation | 520.02 | | | | ft | | | 03/01/21 17:40 | 1 |
| Oxidation Reduction Potential | -195.9 | | | | millivolts | | | 03/01/21 17:40 | 1 |
| Oxygen, Dissolved, Client Supplied | 0.12 | | | | mg/L | | | 03/01/21 17:40 | 1 |
| pH, Field | 7.48 | | | | SU | | | 03/01/21 17:40 | 1 |
| Specific Conductance, Field | 927 | | | | umhos/cm | | | 03/01/21 17:40 | 1 |
| Temperature, Field | 14.1 | | | | Degrees C | | | 03/01/21 17:40 | 1 |
| Turbidity, Field | 0.78 | | | | NTU | | | 03/01/21 17:40 | 1 |

Client Sample Results

Client: SCS Engineers
 Project/Site: Alliant-Burlington 25221066

Job ID: 310-201472-1

Client Sample ID: Field Blank

Lab Sample ID: 310-201472-17

Date Collected: 03/02/21 16:00

Matrix: Water

Date Received: 03/03/21 17:00

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-----|------|---|----------------|----------------|---------|
| Iron | <36 | | 100 | 36 | ug/L | | 03/05/21 09:00 | 03/11/21 20:18 | 1 |
| Magnesium | <100 | | 500 | 100 | ug/L | | 03/05/21 09:00 | 03/11/21 20:18 | 1 |
| Manganese | <4.4 | | 10 | 4.4 | ug/L | | 03/05/21 09:00 | 03/11/21 20:18 | 1 |
| Potassium | <150 | | 500 | 150 | ug/L | | 03/05/21 09:00 | 03/11/21 20:18 | 1 |
| Sodium | <610 | | 1000 | 610 | ug/L | | 03/05/21 09:00 | 03/11/21 20:18 | 1 |

Method: 6020A - Metals (ICP/MS) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Iron | <36 | | 100 | 36 | ug/L | | 03/05/21 09:00 | 03/11/21 18:33 | 1 |
| Lithium | <2.5 | | 10 | 2.5 | ug/L | | 03/05/21 09:00 | 03/11/21 18:33 | 1 |
| Manganese | <4.4 | | 10 | 4.4 | ug/L | | 03/05/21 09:00 | 03/11/21 18:33 | 1 |
| Molybdenum | <1.3 | | 2.0 | 1.3 | ug/L | | 03/05/21 09:00 | 03/11/21 18:33 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO3 | <2.3 | | 5.0 | 2.3 | mg/L | | | 03/15/21 10:30 | 1 |
| Carbonate Alkalinity as CaCO3 | <2.3 | | 5.0 | 2.3 | mg/L | | | 03/15/21 10:30 | 1 |
| Bicarbonate Alkalinity as CaCO3 | <2.3 | | 5.0 | 2.3 | mg/L | | | 03/15/21 10:30 | 1 |

Definitions/Glossary

Client: SCS Engineers
Project/Site: Alliant-Burlington 25221066

Job ID: 310-201472-1

Qualifiers

Metals

| Qualifier | Qualifier Description |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4 | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|----------------|-------------------------------------------------------------------------------------------------------------|
| ▫ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CFU | Colony Forming Unit |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MCL | EPA recommended "Maximum Contaminant Level" |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| MPN | Most Probable Number |
| MQL | Method Quantitation Limit |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| NEG | Negative / Absent |
| POS | Positive / Present |
| PQL | Practical Quantitation Limit |
| PRES | Presumptive |
| QC | Quality Control |
| RER | Relative Error Ratio (Radiochemistry) |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |
| TNTC | Too Numerous To Count |

QC Sample Results

Client: SCS Engineers
Project/Site: Alliant-Burlington 25221066

Job ID: 310-201472-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 310-308613/1-A
Matrix: Water
Analysis Batch: 309389

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 308613

| Analyte | MB | MB | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Iron | <36 | | 100 | 36 | ug/L | | 03/05/21 09:00 | 03/11/21 17:15 | 1 |
| Lithium | <2.5 | | 10 | 2.5 | ug/L | | 03/05/21 09:00 | 03/11/21 17:15 | 1 |
| Manganese | <4.4 | | 10 | 4.4 | ug/L | | 03/05/21 09:00 | 03/11/21 17:15 | 1 |
| Molybdenum | <1.3 | | 2.0 | 1.3 | ug/L | | 03/05/21 09:00 | 03/11/21 17:15 | 1 |

Lab Sample ID: LCS 310-308613/2-A
Matrix: Water
Analysis Batch: 309389

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 308613

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. | Limits |
|------------|-------------|------------|---------------|------|---|------|----------|--------|
| | | | | | | | | |
| Lithium | 200 | 210 | | ug/L | | 105 | 80 - 120 | |
| Manganese | 100 | 101 | | ug/L | | 101 | 80 - 120 | |
| Molybdenum | 200 | 203 | | ug/L | | 101 | 80 - 120 | |

Lab Sample ID: MB 310-308614/1-A
Matrix: Water
Analysis Batch: 309389

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 308614

| Analyte | MB | MB | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-----|------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Iron | <36 | | 100 | 36 | ug/L | | 03/05/21 09:00 | 03/11/21 19:00 | 1 |
| Magnesium | <100 | | 500 | 100 | ug/L | | 03/05/21 09:00 | 03/11/21 19:00 | 1 |
| Manganese | <4.4 | | 10 | 4.4 | ug/L | | 03/05/21 09:00 | 03/11/21 19:00 | 1 |
| Potassium | <150 | | 500 | 150 | ug/L | | 03/05/21 09:00 | 03/11/21 19:00 | 1 |
| Sodium | <610 | | 1000 | 610 | ug/L | | 03/05/21 09:00 | 03/11/21 19:00 | 1 |

Lab Sample ID: LCS 310-308614/2-A
Matrix: Water
Analysis Batch: 309389

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 308614

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. | Limits |
|-----------|-------------|------------|---------------|------|---|------|----------|--------|
| | | | | | | | | |
| Magnesium | 2000 | 1960 | | ug/L | | 98 | 80 - 120 | |
| Manganese | 100 | 92.4 | | ug/L | | 92 | 80 - 120 | |
| Potassium | 2000 | 2060 | | ug/L | | 103 | 80 - 120 | |
| Sodium | 2000 | 2300 | | ug/L | | 115 | 80 - 120 | |

Lab Sample ID: 310-201472-1 MS
Matrix: Water
Analysis Batch: 309389

Client Sample ID: MW-301
Prep Type: Total/NA
Prep Batch: 308614

| Analyte | Sample | Sample | Spike Added | MS | MS | Unit | D | %Rec | %Rec. | Limits |
|-----------|--------|-----------|-------------|--------|-----------|------|---|------|-------|----------|
| | Result | Qualifier | | Result | Qualifier | | | | | |
| Iron | 40000 | | 200 | 40100 | 4 | ug/L | | -70 | | 75 - 125 |
| Magnesium | 68000 | | 2000 | 69900 | 4 | ug/L | | 82 | | 75 - 125 |
| Potassium | 4000 | | 2000 | 6020 | | ug/L | | 101 | | 75 - 125 |
| Sodium | 50000 | | 2000 | 51700 | 4 | ug/L | | 84 | | 75 - 125 |

QC Sample Results

Client: SCS Engineers
 Project/Site: Alliant-Burlington 25221066

Job ID: 310-201472-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 310-201472-1 MS
Matrix: Water
Analysis Batch: 309537

Client Sample ID: MW-301
Prep Type: Total/NA
Prep Batch: 308614
 %Rec.

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | Limits |
|-----------|---------------|------------------|-------------|-----------|--------------|------|---|------|----------|
| Manganese | 13000 | | 100 | 12700 | 4 | ug/L | | -107 | 75 - 125 |

Lab Sample ID: 310-201472-1 MSD
Matrix: Water
Analysis Batch: 309389

Client Sample ID: MW-301
Prep Type: Total/NA
Prep Batch: 308614
 %Rec. RPD

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
|-----------|---------------|------------------|-------------|------------|---------------|------|---|------|----------|-----|-------|
| Iron | 40000 | | 200 | 40000 | 4 | ug/L | | -102 | 75 - 125 | 0 | 20 |
| Magnesium | 68000 | | 2000 | 69700 | 4 | ug/L | | 72 | 75 - 125 | 0 | 20 |
| Potassium | 4000 | | 2000 | 6120 | | ug/L | | 106 | 75 - 125 | 2 | 20 |
| Sodium | 50000 | | 2000 | 51400 | 4 | ug/L | | 69 | 75 - 125 | 1 | 20 |

Lab Sample ID: 310-201472-1 MSD
Matrix: Water
Analysis Batch: 309537

Client Sample ID: MW-301
Prep Type: Total/NA
Prep Batch: 308614
 %Rec. RPD

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
|-----------|---------------|------------------|-------------|------------|---------------|------|---|------|----------|-----|-------|
| Manganese | 13000 | | 100 | 12400 | 4 | ug/L | | -423 | 75 - 125 | 3 | 20 |

Lab Sample ID: 310-201472-11 DU
Matrix: Water
Analysis Batch: 309389

Client Sample ID: MW-309
Prep Type: Total/NA
Prep Batch: 308614
 RPD

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | Limit |
|-----------|---------------|------------------|-----------|--------------|------|---|-----|-------|
| Iron | 11000 | | 10900 | | ug/L | | 0.6 | 20 |
| Magnesium | 18000 | | 17600 | | ug/L | | 0.2 | 20 |
| Manganese | 2500 | | 2540 | | ug/L | | 0.4 | 20 |
| Potassium | 2600 | | 2600 | | ug/L | | 1 | 20 |
| Sodium | 97000 | | 95800 | | ug/L | | 2 | 20 |

Lab Sample ID: 310-201472-1 MS
Matrix: Water
Analysis Batch: 309389

Client Sample ID: MW-301
Prep Type: Dissolved
Prep Batch: 308613
 %Rec.

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | Limits |
|------------|---------------|------------------|-------------|-----------|--------------|------|---|------|----------|
| Iron | 41000 | | 200 | 41000 | 4 | ug/L | | 50 | 75 - 125 |
| Lithium | 12 | | 200 | 220 | | ug/L | | 104 | 75 - 125 |
| Molybdenum | 41 | | 200 | 256 | | ug/L | | 108 | 75 - 125 |

Lab Sample ID: 310-201472-1 MS
Matrix: Water
Analysis Batch: 309537

Client Sample ID: MW-301
Prep Type: Dissolved
Prep Batch: 308613
 %Rec.

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | Limits |
|-----------|---------------|------------------|-------------|-----------|--------------|------|---|------|----------|
| Manganese | 13000 | | 100 | 12900 | 4 | ug/L | | 88 | 75 - 125 |

QC Sample Results

Client: SCS Engineers
Project/Site: Alliant-Burlington 25221066

Job ID: 310-201472-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 310-201472-1 MSD
Matrix: Water
Analysis Batch: 309389

Client Sample ID: MW-301
Prep Type: Dissolved
Prep Batch: 308613

| Analyte | Sample | Sample | Spike | MSD | MSD | Unit | D | %Rec | %Rec. | RPD | Limit |
|------------|--------|-----------|-------|--------|-----------|------|---|------|----------|-----|-------|
| | Result | Qualifier | Added | Result | Qualifier | | | | Limits | | |
| Iron | 41000 | | 200 | 40400 | 4 | ug/L | | -244 | 75 - 125 | 1 | 20 |
| Lithium | 12 | | 200 | 212 | | ug/L | | 100 | 75 - 125 | 4 | 20 |
| Molybdenum | 41 | | 200 | 250 | | ug/L | | 104 | 75 - 125 | 3 | 20 |

Lab Sample ID: 310-201472-1 MSD
Matrix: Water
Analysis Batch: 309537

Client Sample ID: MW-301
Prep Type: Dissolved
Prep Batch: 308613

| Analyte | Sample | Sample | Spike | MSD | MSD | Unit | D | %Rec | %Rec. | RPD | Limit |
|-----------|--------|-----------|-------|--------|-----------|------|---|------|----------|-----|-------|
| | Result | Qualifier | Added | Result | Qualifier | | | | Limits | | |
| Manganese | 13000 | | 100 | 12800 | 4 | ug/L | | -85 | 75 - 125 | 1 | 20 |

Lab Sample ID: 310-201472-11 DU
Matrix: Water
Analysis Batch: 309389

Client Sample ID: MW-309
Prep Type: Dissolved
Prep Batch: 308613

| Analyte | Sample | Sample | DU | | Unit | D | RPD | Limit |
|------------|--------|-----------|--------|-----------|------|---|-----|-------|
| | Result | Qualifier | Result | Qualifier | | | | |
| Iron | 9300 | | 9240 | | ug/L | | 0.8 | 20 |
| Lithium | 4.8 | J | 4.84 | J | ug/L | | 1 | 20 |
| Manganese | 2500 | | 2460 | | ug/L | | 0 | 20 |
| Molybdenum | 56 | | 55.6 | | ug/L | | 1 | 20 |

Method: 2320B - Alkalinity (Low Level)

Lab Sample ID: MB 310-309552/1
Matrix: Water
Analysis Batch: 309552

Client Sample ID: Method Blank
Prep Type: Total/NA

| Analyte | MB | MB | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Total Alkalinity as CaCO3 | <2.3 | | 5.0 | 2.3 | mg/L | | | 03/15/21 10:30 | 1 |
| Carbonate Alkalinity as CaCO3 | <2.3 | | 5.0 | 2.3 | mg/L | | | 03/15/21 10:30 | 1 |
| Bicarbonate Alkalinity as CaCO3 | <2.3 | | 5.0 | 2.3 | mg/L | | | 03/15/21 10:30 | 1 |

Lab Sample ID: LCS 310-309552/2
Matrix: Water
Analysis Batch: 309552

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike | LCS | LCS | Unit | D | %Rec | %Rec. |
|---------------------------|-------|--------|-----------|------|---|------|----------|
| | Added | Result | Qualifier | | | | Limits |
| Total Alkalinity as CaCO3 | 1000 | 1010 | | mg/L | | 101 | 90 - 110 |

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 310-308889/1
Matrix: Water
Analysis Batch: 308889

Client Sample ID: Method Blank
Prep Type: Total/NA

| Analyte | MB | MB | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Bicarbonate Alkalinity as CaCO3 | <2.3 | | 5.0 | 2.3 | mg/L | | | 03/08/21 10:22 | 1 |
| Carbonate Alkalinity as CaCO3 | <2.3 | | 5.0 | 2.3 | mg/L | | | 03/08/21 10:22 | 1 |
| Total Alkalinity as CaCO3 to pH 4.5 | <2.3 | | 5.0 | 2.3 | mg/L | | | 03/08/21 10:22 | 1 |

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QC Sample Results

Client: SCS Engineers
Project/Site: Alliant-Burlington 25221066

Job ID: 310-201472-1

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCS 310-308889/2
Matrix: Water
Analysis Batch: 308889

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-------------------------------------|-------------|------------|---------------|------|---|------|--------------|
| Total Alkalinity as CaCO3 to pH 4.5 | 1000 | 987 | | mg/L | | 99 | 90 - 110 |

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QC Association Summary

Client: SCS Engineers
Project/Site: Alliant-Burlington 25221066

Job ID: 310-201472-1

Metals

Prep Batch: 308613

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 310-201472-1 | MW-301 | Dissolved | Water | 3010A | |
| 310-201472-2 | MW-302 | Dissolved | Water | 3010A | |
| 310-201472-3 | MW-302A | Dissolved | Water | 3010A | |
| 310-201472-4 | MW-303 | Dissolved | Water | 3010A | |
| 310-201472-5 | MW-304 | Dissolved | Water | 3010A | |
| 310-201472-6 | MW-305 | Dissolved | Water | 3010A | |
| 310-201472-7 | MW-306 | Dissolved | Water | 3010A | |
| 310-201472-8 | MW-307 | Dissolved | Water | 3010A | |
| 310-201472-9 | MW-307A | Dissolved | Water | 3010A | |
| 310-201472-10 | MW-308 | Dissolved | Water | 3010A | |
| 310-201472-11 | MW-309 | Dissolved | Water | 3010A | |
| 310-201472-12 | MW-310A | Dissolved | Water | 3010A | |
| 310-201472-13 | MW-311 | Dissolved | Water | 3010A | |
| 310-201472-14 | MW-312 | Dissolved | Water | 3010A | |
| 310-201472-15 | MW-313 | Dissolved | Water | 3010A | |
| 310-201472-16 | MW-313A | Dissolved | Water | 3010A | |
| 310-201472-17 | Field Blank | Dissolved | Water | 3010A | |
| MB 310-308613/1-A | Method Blank | Total/NA | Water | 3010A | |
| LCS 310-308613/2-A | Lab Control Sample | Total/NA | Water | 3010A | |
| 310-201472-1 MS | MW-301 | Dissolved | Water | 3010A | |
| 310-201472-1 MSD | MW-301 | Dissolved | Water | 3010A | |
| 310-201472-11 DU | MW-309 | Dissolved | Water | 3010A | |

Prep Batch: 308614

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 310-201472-1 | MW-301 | Total/NA | Water | 3010A | |
| 310-201472-2 | MW-302 | Total/NA | Water | 3010A | |
| 310-201472-3 | MW-302A | Total/NA | Water | 3010A | |
| 310-201472-4 | MW-303 | Total/NA | Water | 3010A | |
| 310-201472-5 | MW-304 | Total/NA | Water | 3010A | |
| 310-201472-6 | MW-305 | Total/NA | Water | 3010A | |
| 310-201472-7 | MW-306 | Total/NA | Water | 3010A | |
| 310-201472-8 | MW-307 | Total/NA | Water | 3010A | |
| 310-201472-9 | MW-307A | Total/NA | Water | 3010A | |
| 310-201472-10 | MW-308 | Total/NA | Water | 3010A | |
| 310-201472-11 | MW-309 | Total/NA | Water | 3010A | |
| 310-201472-12 | MW-310A | Total/NA | Water | 3010A | |
| 310-201472-13 | MW-311 | Total/NA | Water | 3010A | |
| 310-201472-14 | MW-312 | Total/NA | Water | 3010A | |
| 310-201472-15 | MW-313 | Total/NA | Water | 3010A | |
| 310-201472-16 | MW-313A | Total/NA | Water | 3010A | |
| 310-201472-17 | Field Blank | Total/NA | Water | 3010A | |
| MB 310-308614/1-A | Method Blank | Total/NA | Water | 3010A | |
| LCS 310-308614/2-A | Lab Control Sample | Total/NA | Water | 3010A | |
| 310-201472-1 MS | MW-301 | Total/NA | Water | 3010A | |
| 310-201472-1 MSD | MW-301 | Total/NA | Water | 3010A | |
| 310-201472-11 DU | MW-309 | Total/NA | Water | 3010A | |

Analysis Batch: 309389

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 310-201472-1 | MW-301 | Dissolved | Water | 6020A | 308613 |

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QC Association Summary

Client: SCS Engineers
Project/Site: Alliant-Burlington 25221066

Job ID: 310-201472-1

Metals (Continued)

Analysis Batch: 309389 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 310-201472-1 | MW-301 | Total/NA | Water | 6020A | 308614 |
| 310-201472-2 | MW-302 | Dissolved | Water | 6020A | 308613 |
| 310-201472-2 | MW-302 | Total/NA | Water | 6020A | 308614 |
| 310-201472-3 | MW-302A | Dissolved | Water | 6020A | 308613 |
| 310-201472-3 | MW-302A | Total/NA | Water | 6020A | 308614 |
| 310-201472-4 | MW-303 | Dissolved | Water | 6020A | 308613 |
| 310-201472-4 | MW-303 | Total/NA | Water | 6020A | 308614 |
| 310-201472-5 | MW-304 | Dissolved | Water | 6020A | 308613 |
| 310-201472-5 | MW-304 | Total/NA | Water | 6020A | 308614 |
| 310-201472-6 | MW-305 | Dissolved | Water | 6020A | 308613 |
| 310-201472-6 | MW-305 | Total/NA | Water | 6020A | 308614 |
| 310-201472-7 | MW-306 | Dissolved | Water | 6020A | 308613 |
| 310-201472-7 | MW-306 | Total/NA | Water | 6020A | 308614 |
| 310-201472-8 | MW-307 | Dissolved | Water | 6020A | 308613 |
| 310-201472-8 | MW-307 | Total/NA | Water | 6020A | 308614 |
| 310-201472-9 | MW-307A | Dissolved | Water | 6020A | 308613 |
| 310-201472-9 | MW-307A | Total/NA | Water | 6020A | 308614 |
| 310-201472-10 | MW-308 | Dissolved | Water | 6020A | 308613 |
| 310-201472-10 | MW-308 | Total/NA | Water | 6020A | 308614 |
| 310-201472-11 | MW-309 | Dissolved | Water | 6020A | 308613 |
| 310-201472-11 | MW-309 | Total/NA | Water | 6020A | 308614 |
| 310-201472-12 | MW-310A | Dissolved | Water | 6020A | 308613 |
| 310-201472-12 | MW-310A | Total/NA | Water | 6020A | 308614 |
| 310-201472-13 | MW-311 | Dissolved | Water | 6020A | 308613 |
| 310-201472-13 | MW-311 | Total/NA | Water | 6020A | 308614 |
| 310-201472-14 | MW-312 | Dissolved | Water | 6020A | 308613 |
| 310-201472-14 | MW-312 | Total/NA | Water | 6020A | 308614 |
| 310-201472-15 | MW-313 | Dissolved | Water | 6020A | 308613 |
| 310-201472-15 | MW-313 | Total/NA | Water | 6020A | 308614 |
| 310-201472-16 | MW-313A | Dissolved | Water | 6020A | 308613 |
| 310-201472-16 | MW-313A | Total/NA | Water | 6020A | 308614 |
| 310-201472-17 | Field Blank | Dissolved | Water | 6020A | 308613 |
| 310-201472-17 | Field Blank | Total/NA | Water | 6020A | 308614 |
| MB 310-308613/1-A | Method Blank | Total/NA | Water | 6020A | 308613 |
| MB 310-308614/1-A | Method Blank | Total/NA | Water | 6020A | 308614 |
| LCS 310-308613/2-A | Lab Control Sample | Total/NA | Water | 6020A | 308613 |
| LCS 310-308614/2-A | Lab Control Sample | Total/NA | Water | 6020A | 308614 |
| 310-201472-1 MS | MW-301 | Dissolved | Water | 6020A | 308613 |
| 310-201472-1 MS | MW-301 | Total/NA | Water | 6020A | 308614 |
| 310-201472-1 MSD | MW-301 | Dissolved | Water | 6020A | 308613 |
| 310-201472-1 MSD | MW-301 | Total/NA | Water | 6020A | 308614 |
| 310-201472-11 DU | MW-309 | Dissolved | Water | 6020A | 308613 |
| 310-201472-11 DU | MW-309 | Total/NA | Water | 6020A | 308614 |

Analysis Batch: 309537

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 310-201472-1 | MW-301 | Dissolved | Water | 6020A | 308613 |
| 310-201472-1 | MW-301 | Total/NA | Water | 6020A | 308614 |
| 310-201472-13 | MW-311 | Dissolved | Water | 6020A | 308613 |
| 310-201472-13 | MW-311 | Total/NA | Water | 6020A | 308614 |
| 310-201472-14 | MW-312 | Dissolved | Water | 6020A | 308613 |

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QC Association Summary

Client: SCS Engineers
Project/Site: Alliant-Burlington 25221066

Job ID: 310-201472-1

Metals (Continued)

Analysis Batch: 309537 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------|------------|
| 310-201472-14 | MW-312 | Total/NA | Water | 6020A | 308614 |
| 310-201472-15 | MW-313 | Dissolved | Water | 6020A | 308613 |
| 310-201472-15 | MW-313 | Total/NA | Water | 6020A | 308614 |
| 310-201472-1 MS | MW-301 | Dissolved | Water | 6020A | 308613 |
| 310-201472-1 MS | MW-301 | Total/NA | Water | 6020A | 308614 |
| 310-201472-1 MSD | MW-301 | Dissolved | Water | 6020A | 308613 |
| 310-201472-1 MSD | MW-301 | Total/NA | Water | 6020A | 308614 |

General Chemistry

Analysis Batch: 308889

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|----------|------------|
| 310-201472-1 | MW-301 | Total/NA | Water | SM 2320B | |
| 310-201472-2 | MW-302 | Total/NA | Water | SM 2320B | |
| 310-201472-3 | MW-302A | Total/NA | Water | SM 2320B | |
| 310-201472-4 | MW-303 | Total/NA | Water | SM 2320B | |
| 310-201472-5 | MW-304 | Total/NA | Water | SM 2320B | |
| 310-201472-6 | MW-305 | Total/NA | Water | SM 2320B | |
| 310-201472-7 | MW-306 | Total/NA | Water | SM 2320B | |
| 310-201472-8 | MW-307 | Total/NA | Water | SM 2320B | |
| 310-201472-9 | MW-307A | Total/NA | Water | SM 2320B | |
| 310-201472-10 | MW-308 | Total/NA | Water | SM 2320B | |
| 310-201472-11 | MW-309 | Total/NA | Water | SM 2320B | |
| 310-201472-12 | MW-310A | Total/NA | Water | SM 2320B | |
| 310-201472-13 | MW-311 | Total/NA | Water | SM 2320B | |
| 310-201472-14 | MW-312 | Total/NA | Water | SM 2320B | |
| 310-201472-15 | MW-313 | Total/NA | Water | SM 2320B | |
| 310-201472-16 | MW-313A | Total/NA | Water | SM 2320B | |
| MB 310-308889/1 | Method Blank | Total/NA | Water | SM 2320B | |
| LCS 310-308889/2 | Lab Control Sample | Total/NA | Water | SM 2320B | |

Analysis Batch: 309552

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 310-201472-17 | Field Blank | Total/NA | Water | 2320B | |
| MB 310-309552/1 | Method Blank | Total/NA | Water | 2320B | |
| LCS 310-309552/2 | Lab Control Sample | Total/NA | Water | 2320B | |

Field Service / Mobile Lab

Analysis Batch: 309071

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|----------------|------------|
| 310-201472-1 | MW-301 | Total/NA | Water | Field Sampling | |
| 310-201472-2 | MW-302 | Total/NA | Water | Field Sampling | |
| 310-201472-3 | MW-302A | Total/NA | Water | Field Sampling | |
| 310-201472-4 | MW-303 | Total/NA | Water | Field Sampling | |
| 310-201472-5 | MW-304 | Total/NA | Water | Field Sampling | |
| 310-201472-6 | MW-305 | Total/NA | Water | Field Sampling | |
| 310-201472-7 | MW-306 | Total/NA | Water | Field Sampling | |
| 310-201472-8 | MW-307 | Total/NA | Water | Field Sampling | |
| 310-201472-9 | MW-307A | Total/NA | Water | Field Sampling | |
| 310-201472-10 | MW-308 | Total/NA | Water | Field Sampling | |
| 310-201472-11 | MW-309 | Total/NA | Water | Field Sampling | |

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QC Association Summary

Client: SCS Engineers
Project/Site: Alliant-Burlington 25221066

Job ID: 310-201472-1

Field Service / Mobile Lab (Continued)

Analysis Batch: 309071 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|----------------|------------|
| 310-201472-12 | MW-310A | Total/NA | Water | Field Sampling | |
| 310-201472-13 | MW-311 | Total/NA | Water | Field Sampling | |
| 310-201472-14 | MW-312 | Total/NA | Water | Field Sampling | |
| 310-201472-15 | MW-313 | Total/NA | Water | Field Sampling | |
| 310-201472-16 | MW-313A | Total/NA | Water | Field Sampling | |

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Lab Chronicle

Client: SCS Engineers
Project/Site: Alliant-Burlington 25221066

Job ID: 310-201472-1

Client Sample ID: MW-301

Date Collected: 03/01/21 10:58

Date Received: 03/03/21 17:00

Lab Sample ID: 310-201472-1

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Dissolved | Prep | 3010A | | | 308613 | 03/05/21 09:00 | JNR | TAL CF |
| Dissolved | Analysis | 6020A | | 1 | 309389 | 03/11/21 17:20 | SAD | TAL CF |
| Dissolved | Prep | 3010A | | | 308613 | 03/05/21 09:00 | JNR | TAL CF |
| Dissolved | Analysis | 6020A | | 7 | 309537 | 03/12/21 12:28 | SAD | TAL CF |
| Total/NA | Prep | 3010A | | | 308614 | 03/05/21 09:00 | JNR | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 309389 | 03/11/21 19:05 | SAD | TAL CF |
| Total/NA | Prep | 3010A | | | 308614 | 03/05/21 09:00 | JNR | TAL CF |
| Total/NA | Analysis | 6020A | | 7 | 309537 | 03/12/21 12:47 | SAD | TAL CF |
| Total/NA | Analysis | SM 2320B | | 1 | 308889 | 03/08/21 10:22 | DFS | TAL CF |
| Total/NA | Analysis | Field Sampling | | 1 | 309071 | 03/01/21 10:58 | SLD | TAL CF |

Client Sample ID: MW-302

Date Collected: 03/01/21 12:10

Date Received: 03/03/21 17:00

Lab Sample ID: 310-201472-2

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Dissolved | Prep | 3010A | | | 308613 | 03/05/21 09:00 | JNR | TAL CF |
| Dissolved | Analysis | 6020A | | 1 | 309389 | 03/11/21 17:41 | SAD | TAL CF |
| Total/NA | Prep | 3010A | | | 308614 | 03/05/21 09:00 | JNR | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 309389 | 03/11/21 19:15 | SAD | TAL CF |
| Total/NA | Analysis | SM 2320B | | 1 | 308889 | 03/08/21 10:22 | DFS | TAL CF |
| Total/NA | Analysis | Field Sampling | | 1 | 309071 | 03/01/21 12:10 | SLD | TAL CF |

Client Sample ID: MW-302A

Date Collected: 03/01/21 13:02

Date Received: 03/03/21 17:00

Lab Sample ID: 310-201472-3

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Dissolved | Prep | 3010A | | | 308613 | 03/05/21 09:00 | JNR | TAL CF |
| Dissolved | Analysis | 6020A | | 1 | 309389 | 03/11/21 17:43 | SAD | TAL CF |
| Total/NA | Prep | 3010A | | | 308614 | 03/05/21 09:00 | JNR | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 309389 | 03/11/21 19:18 | SAD | TAL CF |
| Total/NA | Analysis | SM 2320B | | 1 | 308889 | 03/08/21 10:22 | DFS | TAL CF |
| Total/NA | Analysis | Field Sampling | | 1 | 309071 | 03/01/21 13:02 | SLD | TAL CF |

Client Sample ID: MW-303

Date Collected: 03/01/21 14:03

Date Received: 03/03/21 17:00

Lab Sample ID: 310-201472-4

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Dissolved | Prep | 3010A | | | 308613 | 03/05/21 09:00 | JNR | TAL CF |
| Dissolved | Analysis | 6020A | | 1 | 309389 | 03/11/21 17:46 | SAD | TAL CF |
| Total/NA | Prep | 3010A | | | 308614 | 03/05/21 09:00 | JNR | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 309389 | 03/11/21 19:20 | SAD | TAL CF |
| Total/NA | Analysis | SM 2320B | | 1 | 308889 | 03/08/21 10:22 | DFS | TAL CF |

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Lab Chronicle

Client: SCS Engineers
Project/Site: Alliant-Burlington 25221066

Job ID: 310-201472-1

Client Sample ID: MW-303

Date Collected: 03/01/21 14:03

Date Received: 03/03/21 17:00

Lab Sample ID: 310-201472-4

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Analysis | Field Sampling | | 1 | 309071 | 03/01/21 14:03 | SLD | TAL CF |

Client Sample ID: MW-304

Date Collected: 03/01/21 15:22

Date Received: 03/03/21 17:00

Lab Sample ID: 310-201472-5

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Dissolved | Prep | 3010A | | | 308613 | 03/05/21 09:00 | JNR | TAL CF |
| Dissolved | Analysis | 6020A | | 1 | 309389 | 03/11/21 17:48 | SAD | TAL CF |
| Total/NA | Prep | 3010A | | | 308614 | 03/05/21 09:00 | JNR | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 309389 | 03/11/21 19:23 | SAD | TAL CF |
| Total/NA | Analysis | SM 2320B | | 1 | 308889 | 03/08/21 10:22 | DFS | TAL CF |
| Total/NA | Analysis | Field Sampling | | 1 | 309071 | 03/01/21 15:22 | SLD | TAL CF |

Client Sample ID: MW-305

Date Collected: 03/02/21 15:20

Date Received: 03/03/21 17:00

Lab Sample ID: 310-201472-6

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Dissolved | Prep | 3010A | | | 308613 | 03/05/21 09:00 | JNR | TAL CF |
| Dissolved | Analysis | 6020A | | 1 | 309389 | 03/11/21 17:51 | SAD | TAL CF |
| Total/NA | Prep | 3010A | | | 308614 | 03/05/21 09:00 | JNR | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 309389 | 03/11/21 19:36 | SAD | TAL CF |
| Total/NA | Analysis | SM 2320B | | 1 | 308889 | 03/08/21 10:22 | DFS | TAL CF |
| Total/NA | Analysis | Field Sampling | | 1 | 309071 | 03/02/21 15:20 | SLD | TAL CF |

Client Sample ID: MW-306

Date Collected: 03/02/21 13:03

Date Received: 03/03/21 17:00

Lab Sample ID: 310-201472-7

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Dissolved | Prep | 3010A | | | 308613 | 03/05/21 09:00 | JNR | TAL CF |
| Dissolved | Analysis | 6020A | | 1 | 309389 | 03/11/21 17:54 | SAD | TAL CF |
| Total/NA | Prep | 3010A | | | 308614 | 03/05/21 09:00 | JNR | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 309389 | 03/11/21 19:39 | SAD | TAL CF |
| Total/NA | Analysis | SM 2320B | | 1 | 308889 | 03/08/21 10:22 | DFS | TAL CF |
| Total/NA | Analysis | Field Sampling | | 1 | 309071 | 03/02/21 13:03 | SLD | TAL CF |

Client Sample ID: MW-307

Date Collected: 03/02/21 10:58

Date Received: 03/03/21 17:00

Lab Sample ID: 310-201472-8

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Dissolved | Prep | 3010A | | | 308613 | 03/05/21 09:00 | JNR | TAL CF |
| Dissolved | Analysis | 6020A | | 1 | 309389 | 03/11/21 17:56 | SAD | TAL CF |

Eurofins TestAmerica, Cedar Falls

Lab Chronicle

Client: SCS Engineers
Project/Site: Alliant-Burlington 25221066

Job ID: 310-201472-1

Client Sample ID: MW-307

Lab Sample ID: 310-201472-8

Date Collected: 03/02/21 10:58

Matrix: Water

Date Received: 03/03/21 17:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | 3010A | | | 308614 | 03/05/21 09:00 | JNR | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 309389 | 03/11/21 19:41 | SAD | TAL CF |
| Total/NA | Analysis | SM 2320B | | 1 | 308889 | 03/08/21 10:22 | DFS | TAL CF |
| Total/NA | Analysis | Field Sampling | | 1 | 309071 | 03/02/21 10:58 | SLD | TAL CF |

Client Sample ID: MW-307A

Lab Sample ID: 310-201472-9

Date Collected: 03/02/21 11:43

Matrix: Water

Date Received: 03/03/21 17:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Dissolved | Prep | 3010A | | | 308613 | 03/05/21 09:00 | JNR | TAL CF |
| Dissolved | Analysis | 6020A | | 1 | 309389 | 03/11/21 17:59 | SAD | TAL CF |
| Total/NA | Prep | 3010A | | | 308614 | 03/05/21 09:00 | JNR | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 309389 | 03/11/21 19:44 | SAD | TAL CF |
| Total/NA | Analysis | SM 2320B | | 1 | 308889 | 03/08/21 10:22 | DFS | TAL CF |
| Total/NA | Analysis | Field Sampling | | 1 | 309071 | 03/02/21 11:43 | SLD | TAL CF |

Client Sample ID: MW-308

Lab Sample ID: 310-201472-10

Date Collected: 03/02/21 09:03

Matrix: Water

Date Received: 03/03/21 17:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Dissolved | Prep | 3010A | | | 308613 | 03/05/21 09:00 | JNR | TAL CF |
| Dissolved | Analysis | 6020A | | 1 | 309389 | 03/11/21 18:02 | SAD | TAL CF |
| Total/NA | Prep | 3010A | | | 308614 | 03/05/21 09:00 | JNR | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 309389 | 03/11/21 19:47 | SAD | TAL CF |
| Total/NA | Analysis | SM 2320B | | 1 | 308889 | 03/08/21 10:22 | DFS | TAL CF |
| Total/NA | Analysis | Field Sampling | | 1 | 309071 | 03/02/21 09:03 | SLD | TAL CF |

Client Sample ID: MW-309

Lab Sample ID: 310-201472-11

Date Collected: 03/01/21 09:36

Matrix: Water

Date Received: 03/03/21 17:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Dissolved | Prep | 3010A | | | 308613 | 03/05/21 09:00 | JNR | TAL CF |
| Dissolved | Analysis | 6020A | | 1 | 309389 | 03/11/21 18:04 | SAD | TAL CF |
| Total/NA | Prep | 3010A | | | 308614 | 03/05/21 09:00 | JNR | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 309389 | 03/11/21 19:49 | SAD | TAL CF |
| Total/NA | Analysis | SM 2320B | | 1 | 308889 | 03/08/21 10:22 | DFS | TAL CF |
| Total/NA | Analysis | Field Sampling | | 1 | 309071 | 03/01/21 09:36 | SLD | TAL CF |

Lab Chronicle

Client: SCS Engineers
 Project/Site: Alliant-Burlington 25221066

Job ID: 310-201472-1

Client Sample ID: MW-310A

Lab Sample ID: 310-201472-12

Date Collected: 03/03/21 07:40

Matrix: Water

Date Received: 03/03/21 17:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Dissolved | Prep | 3010A | | | 308613 | 03/05/21 09:00 | JNR | TAL CF |
| Dissolved | Analysis | 6020A | | 1 | 309389 | 03/11/21 18:20 | SAD | TAL CF |
| Total/NA | Prep | 3010A | | | 308614 | 03/05/21 09:00 | JNR | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 309389 | 03/11/21 19:54 | SAD | TAL CF |
| Total/NA | Analysis | SM 2320B | | 1 | 308889 | 03/08/21 10:22 | DFS | TAL CF |
| Total/NA | Analysis | Field Sampling | | 1 | 309071 | 03/03/21 07:40 | SLD | TAL CF |

Client Sample ID: MW-311

Lab Sample ID: 310-201472-13

Date Collected: 03/01/21 08:50

Matrix: Water

Date Received: 03/03/21 17:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Dissolved | Prep | 3010A | | | 308613 | 03/05/21 09:00 | JNR | TAL CF |
| Dissolved | Analysis | 6020A | | 1 | 309389 | 03/11/21 18:23 | SAD | TAL CF |
| Dissolved | Prep | 3010A | | | 308613 | 03/05/21 09:00 | JNR | TAL CF |
| Dissolved | Analysis | 6020A | | 4 | 309537 | 03/12/21 12:36 | SAD | TAL CF |
| Total/NA | Prep | 3010A | | | 308614 | 03/05/21 09:00 | JNR | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 309389 | 03/11/21 19:57 | SAD | TAL CF |
| Total/NA | Prep | 3010A | | | 308614 | 03/05/21 09:00 | JNR | TAL CF |
| Total/NA | Analysis | 6020A | | 4 | 309537 | 03/12/21 13:05 | SAD | TAL CF |
| Total/NA | Analysis | SM 2320B | | 1 | 308889 | 03/08/21 10:22 | DFS | TAL CF |
| Total/NA | Analysis | Field Sampling | | 1 | 309071 | 03/01/21 08:50 | SLD | TAL CF |

Client Sample ID: MW-312

Lab Sample ID: 310-201472-14

Date Collected: 03/01/21 16:23

Matrix: Water

Date Received: 03/03/21 17:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Dissolved | Prep | 3010A | | | 308613 | 03/05/21 09:00 | JNR | TAL CF |
| Dissolved | Analysis | 6020A | | 1 | 309389 | 03/11/21 18:25 | SAD | TAL CF |
| Dissolved | Prep | 3010A | | | 308613 | 03/05/21 09:00 | JNR | TAL CF |
| Dissolved | Analysis | 6020A | | 4 | 309537 | 03/12/21 12:39 | SAD | TAL CF |
| Total/NA | Prep | 3010A | | | 308614 | 03/05/21 09:00 | JNR | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 309389 | 03/11/21 20:00 | SAD | TAL CF |
| Total/NA | Prep | 3010A | | | 308614 | 03/05/21 09:00 | JNR | TAL CF |
| Total/NA | Analysis | 6020A | | 4 | 309537 | 03/12/21 13:08 | SAD | TAL CF |
| Total/NA | Analysis | SM 2320B | | 1 | 308889 | 03/08/21 10:22 | DFS | TAL CF |
| Total/NA | Analysis | Field Sampling | | 1 | 309071 | 03/01/21 16:23 | SLD | TAL CF |

Lab Chronicle

Client: SCS Engineers
Project/Site: Alliant-Burlington 25221066

Job ID: 310-201472-1

Client Sample ID: MW-313

Lab Sample ID: 310-201472-15

Date Collected: 03/02/21 16:20

Matrix: Water

Date Received: 03/03/21 17:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Dissolved | Prep | 3010A | | | 308613 | 03/05/21 09:00 | JNR | TAL CF |
| Dissolved | Analysis | 6020A | | 1 | 309389 | 03/11/21 18:28 | SAD | TAL CF |
| Dissolved | Prep | 3010A | | | 308613 | 03/05/21 09:00 | JNR | TAL CF |
| Dissolved | Analysis | 6020A | | 4 | 309537 | 03/12/21 12:41 | SAD | TAL CF |
| Total/NA | Prep | 3010A | | | 308614 | 03/05/21 09:00 | JNR | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 309389 | 03/11/21 20:13 | SAD | TAL CF |
| Total/NA | Prep | 3010A | | | 308614 | 03/05/21 09:00 | JNR | TAL CF |
| Total/NA | Analysis | 6020A | | 4 | 309537 | 03/12/21 13:11 | SAD | TAL CF |
| Total/NA | Analysis | SM 2320B | | 1 | 308889 | 03/08/21 10:22 | DFS | TAL CF |
| Total/NA | Analysis | Field Sampling | | 1 | 309071 | 03/02/21 16:20 | SLD | TAL CF |

Client Sample ID: MW-313A

Lab Sample ID: 310-201472-16

Date Collected: 03/01/21 17:40

Matrix: Water

Date Received: 03/03/21 17:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Dissolved | Prep | 3010A | | | 308613 | 03/05/21 09:00 | JNR | TAL CF |
| Dissolved | Analysis | 6020A | | 1 | 309389 | 03/11/21 18:30 | SAD | TAL CF |
| Total/NA | Prep | 3010A | | | 308614 | 03/05/21 09:00 | JNR | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 309389 | 03/11/21 20:15 | SAD | TAL CF |
| Total/NA | Analysis | SM 2320B | | 1 | 308889 | 03/08/21 10:22 | DFS | TAL CF |
| Total/NA | Analysis | Field Sampling | | 1 | 309071 | 03/01/21 17:40 | SLD | TAL CF |

Client Sample ID: Field Blank

Lab Sample ID: 310-201472-17

Date Collected: 03/02/21 16:00

Matrix: Water

Date Received: 03/03/21 17:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Dissolved | Prep | 3010A | | | 308613 | 03/05/21 09:00 | JNR | TAL CF |
| Dissolved | Analysis | 6020A | | 1 | 309389 | 03/11/21 18:33 | SAD | TAL CF |
| Total/NA | Prep | 3010A | | | 308614 | 03/05/21 09:00 | JNR | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 309389 | 03/11/21 20:18 | SAD | TAL CF |
| Total/NA | Analysis | 2320B | | 1 | 309552 | 03/15/21 10:30 | WJF | TAL CF |

Laboratory References:

TAL CF = Eurofins TestAmerica, Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

Accreditation/Certification Summary

Client: SCS Engineers
Project/Site: Alliant-Burlington 25221066

Job ID: 310-201472-1

Laboratory: Eurofins TestAmerica, Cedar Falls

The accreditations/certifications listed below are applicable to this report.

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| Iowa | State | 007 | 12-01-21 |

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Method Summary

Client: SCS Engineers
Project/Site: Alliant-Burlington 25221066

Job ID: 310-201472-1

| Method | Method Description | Protocol | Laboratory |
|----------------|---------------------------|----------|------------|
| 6020A | Metals (ICP/MS) | SW846 | TAL CF |
| 2320B | Alkalinity (Low Level) | SM | TAL CF |
| SM 2320B | Alkalinity | SM | TAL CF |
| Field Sampling | Field Sampling | EPA | TAL CF |
| 3010A | Preparation, Total Metals | SW846 | TAL CF |

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

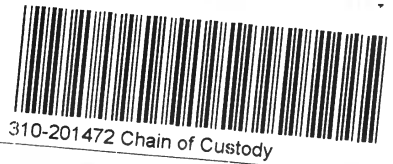
Laboratory References:

TAL CF = Eurofins TestAmerica, Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401





Environment Testing
TestAmerica



Cooler/Sample Receipt and Temperature Log Form

| | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------|
| Client Information | | | |
| Client: <u>SCS engineer</u> | | | |
| City/State: | CITY <u>CNE</u> | STATE <u>IN</u> | Project: <u>Alliant - Arlington</u> |
| Receipt Information | | | |
| Date/Time Received: | DATE <u>3-3-21</u> | TIME <u>1700</u> | Received By: <u>EX</u> |
| Delivery Type: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee | | | |
| <input checked="" type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____ | | | |
| Condition of Cooler/Containers | | | |
| Sample(s) received in Cooler? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If yes: Cooler ID: _____ | |
| Multiple Coolers? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If yes: Cooler # <u>1</u> of <u>2</u> | |
| Cooler Custody Seals Present? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If yes: Cooler custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No | |
| Sample Custody Seals Present? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No | |
| Trip Blank Present? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If yes: Which VOA samples are in cooler? ↓ | |
| Temperature Record | | | |
| Coolant: | <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE | | |
| Thermometer ID: | <u>0</u> | Correction Factor (°C): | <u>0</u> |
| • Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature | | | |
| Uncorrected Temp (°C): | <u>4.0</u> | Corrected Temp (°C): | <u>4.0</u> |
| • Sample Container Temperature | | | |
| Container(s) used: | <u>CONTAINER 1</u> | <u>CONTAINER 2</u> | |
| Uncorrected Temp (°C): | | | |
| Corrected Temp (°C): | | | |
| Exceptions Noted | | | |
| 1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No | | | |
| a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No | | | |
| 2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No | | | |
| NOTE: If yes, contact PM before proceeding. If no, proceed with login | | | |
| Additional Comments | | | |
| | | | |
| | | | |



Cooler/Sample Receipt and Temperature Log Form

| | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Client Information | | |
| Client: <u>SCS Engineer</u> | | |
| City/State: CITY <u>CNE</u> STATE <u>IN</u> | Project: <u>Alliant - Burlington</u> | |
| Receipt Information | | |
| Date/Time Received: DATE <u>3-3-21</u> TIME <u>1700</u> | Received By: <u>EK</u> | |
| Delivery Type: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input checked="" type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____ | | |
| Condition of Cooler/Containers | | |
| Sample(s) received in Cooler? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If yes: Cooler ID: _____ |
| Multiple Coolers? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If yes: Cooler # <u>2</u> of <u>2</u> |
| Cooler Custody Seals Present? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If yes: Cooler custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Sample Custody Seals Present? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Trip Blank Present? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If yes: Which VOA samples are in cooler? ↓ |
| Temperature Record | | |
| Coolant: <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE | | |
| Thermometer ID: <u>0</u> | Correction Factor (°C): <u>0</u> | |
| • Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature | | |
| Uncorrected Temp (°C): <u>2.6</u> | Corrected Temp (°C): <u>2.6</u> | |
| • Sample Container Temperature | | |
| Container(s) used: | <u>CONTAINER 1</u> | <u>CONTAINER 2</u> |
| Uncorrected Temp (°C): | | |
| Corrected Temp (°C): | | |
| Exceptions Noted | | |
| 1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| 2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| NOTE: If yes, contact PM before proceeding. If no, proceed with login | | |
| Additional Comments | | |
| | | |
| | | |
| | | |



Chain of Custody Record

| | | | | | |
|-------------------------------------------|--|-----------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Client Information | | Lab PM: Fredrick, Sandie | | Carrier Tracking No(s): 310-58527-17130.1 | |
| Client Contact: Tanten Buszka | | E-Mail: sandra.fredrick@eurofinset.com | | State of Origin: | |
| Company: SCS Engineers | | PWSID: | | Page: Page 1 of 2 | |
| Address: 8450 Hickman Road Suite 27 | | Due Date Requested: | | Job #: | |
| City: Clive | | TAT Requested (days): | | Preservation Codes: | |
| State, Zip: IA, 50325 | | Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2SO4 Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify) | |
| Phone: 269-943-0855 | | PO #: 25221066 | | Other: | |
| Email: tbuszka@scsengineers.com | | WO #: 31011020 | | * See attached table * | |
| Project Name: Alliant-Burlington 25221066 | | Project #: | | Special Instructions/Note: | |
| Site: | | SSOW#: | | 6020A-D was filtered | |

| Sample Identification | Sample Date | Sample Time | Sample Type (C=Comp, G=grab) | Matrix (Water, Solid, Other) | Analysis Requested | | | | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 6020A - D Metals (5) | 6020A - D Metals (4) | 2320B - Alkalinity Carb/Bicarb | Total Number of Containers | Special Instructions/Note: |
|-----------------------|-------------|-------------|------------------------------|------------------------------|--------------------|---|---|---|-----------------------------------|----------------------------|----------------------|----------------------|--------------------------------|----------------------------|----------------------------|
| | | | | | D | D | N | N | | | | | | | |
| MW-301 | 3-1-21 | 10:58 | G | Water | | | | | | X | X | X | | | |
| MW-302 | 3-1-21 | 12:10 | G | Water | | | | | | X | X | X | | | |
| MW-302A | 3-1-21 | 13:02 | G | Water | | | | | | X | X | X | | | |
| MW-303 | 3-1-21 | 14:03 | G | Water | | | | | | X | X | X | | | |
| MW-304 | 3-1-21 | 15:22 | G | Water | | | | | | X | X | X | | | |
| MW-305 | 3-2-21 | 15:20 | G | Water | | | | | | X | X | X | | | |
| MW-306 | 3-2-21 | 13:03 | G | Water | | | | | | X | X | X | | | |
| MW-307 | 3-2-21 | 10:58 | G | Water | | | | | | X | X | X | | | |
| MW-307A | 3-2-21 | 11:43 | G | Water | | | | | | X | X | X | | | |
| MW-308 | 3-2-21 | 9:03 | G | Water | | | | | | X | X | X | | | |
| MW-309 | 3-1-21 | 9:57 | G | Water | | | | | | X | X | X | | | |

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

Deliverable Requested: I, II, III, IV, Other (specify)

Empty Kit Relinquished by: Tanten Buszka

Relinquished by: Tanten Buszka

Relinquished by: SCS

Relinquished by: Company

Custody Seals Intact: Yes No

Custody Seal No.:

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For Months

Special Instructions/QC Requirements:

Received by: Tanten Buszka Date/Time: 3-3-21 11:20 Company: SCS

Received by: Date/Time: Company:

Received by: Date/Time: Company:

Method of Shipment:

Cooler Temperature(s) °C and Other Remarks:



Chain of Custody Record

| Client Information | | Lab PM: Fredrick, Sandie | Carrier Tracking No(s): | COC No: 310-58527-17130 2 | | | | | |
|-------------------------------------------|-------------|------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-----------------------------------|----------------------------|--------------------------------------|-------------------------------------|--------------------------------|
| Client Contact: Tanten Buszka | | E-Mail: sandra.fredrick@eurofins.com | State of Origin: | Page: Page 2 of 2 | | | | | |
| Company: SCS Engineers | | PWSID: | Job #: | | | | | | |
| Address: 8450 Hickman Road Suite 27 | | Due Date Requested: | Analysis Requested | | | | | | |
| City: Clive | | TAT Requested (days): | Total Number of containers | | | | | | |
| State, Zip: IA, 50325 | | Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No | Preservation Codes: | | | | | | |
| Phone: 264-943-0855 | | PO #: 25221066 | A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: | | | | | | |
| Email: tbuszka@scsengineers.com | | WO #: 31011020 | M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify) | | | | | | |
| Project Name: Alliant-Burlington 25221066 | | Project #: 31011020 | * See Attached table * | | | | | | |
| Site: ↓ | | SSOW#: | Special Instructions/Note: 6020A-D was Filtered * - 6020A-D not Filtered | | | | | | |
| Sample Identification | Sample Date | Sample Time | Sample Type (C=Comp, G=grab) | Matrix (Water, Spill, On-water, Oil) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 6020A - Metals (5) Fe, Mg, Mn, K, Na | 6020A - D Metals (4) Fe, Li, Mn, Mo | 2320B - Alkalinity Carb/Bicarb |
| MW-310 | 3-3-21 | 7:40 | G | Water | N | N | X | X | X |
| MW-310A | 3-1-21 | 8:50 | G | Water | N | N | X | X | X |
| MW-311 | 3-1-21 | 16:23 | G | Water | N | N | X | X | X |
| MW-312 | 3-2-21 | 16:20 | G | Water | N | N | X | X | X |
| MW-313 | 3-1-21 | 17:40 | G | Water | N | N | X | X | X |
| MW-313A | 3-2-21 | 16:00 | G | Water | N | N | X | X | X |
| Field Blank | | | | Water | | | | | |

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

Deliverable Requested: I, II, III, IV, Other (specify)

Empty Kit Relinquished by: Tanten Buszka

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For Months

Special Instructions/QC Requirements:

| Relinquished by: | Date: | Time: | Method of Shipment: |
|--------------------------------------------------------------------------------|--------|-------|---------------------|
| Tanten Buszka | 3-3-21 | 11:20 | |
| Company: SCS | | | |
| Relinquished by: | | | |
| Relinquished by: | | | |
| Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No | | | |
| Custody Seal No.: | | | |

Cooler Temperature(s) °C and Other Remarks:



Table 1. Sampling Points and Parameters - CCR Rule Sampling Program Assessment Monitoring
Groundwater Monitoring - Burlington Generating Station / SCS Engineers Project #25221066

| Parameter | MW-301 | MW-302 | MW-302A | MW-303 | MW-304 | MW-305 | MW-306 | MW-307 | MW-307A | MW-308 | MW-309 | MW-310 | MW-310A | MW-311 | MW-312 | MW-313 | MW-313A | Field Blank | TOTAL |
|------------------------------------------------------|--------|--------|---------|--------|--------|--------|--------|--------|---------|--------|--------|--------|---------|--------|--------|--------|---------|-------------|-------|
| Appendix III Parameters | | | | | | | | | | | | | | | | | | | 0 |
| Barium | | | | | | | | | | | | | | | | | | | 0 |
| Calcium | | | | | | | | | | | | | | | | | | | 0 |
| Chloride | | | | | | | | | | | | | | | | | | | 0 |
| Fluoride | | | | | | | | | | | | | | | | | | | 0 |
| pH | | | | | | | | | | | | | | | | | | | 0 |
| Sulfate | | | | | | | | | | | | | | | | | | | 0 |
| TDS | | | | | | | | | | | | | | | | | | | 0 |
| Appendix IV Parameters | | | | | | | | | | | | | | | | | | | 0 |
| Antimony | | | | | | | | | | | | | | | | | | | 0 |
| Arsenic | | | | | | | | | | | | | | | | | | | 0 |
| Barium | | | | | | | | | | | | | | | | | | | 0 |
| Beryllium | | | | | | | | | | | | | | | | | | | 0 |
| Cadmium | | | | | | | | | | | | | | | | | | | 0 |
| Chromium | | | | | | | | | | | | | | | | | | | 0 |
| Cobalt | | | | | | | | | | | | | | | | | | | 0 |
| Fluoride | | | | | | | | | | | | | | | | | | | 0 |
| Lead | | | | | | | | | | | | | | | | | | | 0 |
| Lithium | | | X | | | | | | | | | | | | | | X | X | 4 |
| Mercury | | | | | | | | | | | | | | | | | | | 0 |
| Molybdenum | | | X | | | | | | | | | | | | | | X | X | 4 |
| Selenium | | | | | | | | | | | | | | | | | | | 0 |
| Thallium | | | | | | | | | | | | | | | | | | | 0 |
| Radium | | | | | | | | | | | | | | | | | | | 0 |
| Field Parameters | | | | | | | | | | | | | | | | | | | 17 |
| Groundwater Elevation | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 17 |
| Well Depth | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 17 |
| pH (field) | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 17 |
| Specific Conductance | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 17 |
| Dissolved Oxygen | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 17 |
| ORP | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 17 |
| Temperature | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 17 |
| Turbidity | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 17 |
| Color | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 17 |
| Odor | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 17 |
| Additional Lab Parameters - REPORT SEPARATELY | | | | | | | | | | | | | | | | | | | 17 |
| Bicarbonate (total) | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 17 |
| Carbonate (total) | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 17 |
| Iron (total) | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 17 |
| Magnesium (total) | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 17 |
| Manganese (total) | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 17 |
| Potassium (total) | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 17 |
| Sodium (total) | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 17 |
| Iron (filtered) | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 17 |
| Lithium (filtered) | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 10 |
| Manganese (filtered) | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 17 |
| Molybdenum (filtered) | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 12 |

Notes:
I:\25221066.00\Data and Calculations\Field Work Requests\Table_1_BGS_CCR_Rule_Sampling_2103.xls|Sheet1



Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-201472-1

Login Number: 201472

List Source: Eurofins TestAmerica, Cedar Falls

List Number: 1

Creator: Bovy, Lorraine L

| Question | Answer | Comment |
|-----------------------------------------------------------------------------------------------------|--------|---------|
| Radioactivity wasn't checked or is \leq background as measured by a survey meter. | N/A | |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | N/A | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

**Table 1. Groundwater Monitoring Results - Field Parameters
Burlington Generating Station / SCS Engineers Project No. 25221066.00
March 2021**

| Sample | Sample Date/Time | Temperature (Deg. C) | pH (Std. Units) | Dissolved Oxygen (mg/L) | Specific Conductivity (µmhos/cm) | ORP (mV) | Turbidity | Groundwater Elevation (amsl) |
|---------|------------------|----------------------|-----------------|-------------------------|----------------------------------|----------|-----------|------------------------------|
| MW-301 | 3/1/2021 | 12.2 | 6.88 | 0.16 | 1562 | -176.6 | 3.50 | 521.10 |
| MW-302 | 3/1/2021 | 12.3 | 7.95 | 0.11 | 1101 | -236.9 | 2.70 | 520.21 |
| MW-302A | 3/1/2021 | 12.5 | 7.20 | 0.16 | 975 | -165.6 | 0.48 | 520.14 |
| MW-303 | 3/1/2021 | 13.6 | 7.15 | 0.12 | 916 | -174.2 | 1.82 | 520.09 |
| MW-304 | 3/1/2021 | 14.1 | 8.26 | 0.07 | 971 | -280.2 | 0.02 | 520.15 |
| MW-305 | 3/2/2021 | 14.8 | 7.29 | 0.44 | 865 | -154.0 | 0.02 | 520.48 |
| MW-306 | 3/2/2021 | 14.1 | 9.46 | 0.39 | 415 | -196.0 | 0.02 | 520.65 |
| MW-307 | 3/2/2021 | 14.0 | 9.96 | 0.38 | 552 | -233.0 | 0.49 | 521.01 |
| MW-307A | 3/2/2021 | 14.0 | 7.66 | 0.29 | 568 | -171.0 | 0.95 | 520.52 |
| MW-308 | 3/2/2021 | 13.9 | 9.40 | 0.11 | 695 | -207.2 | 0.02 | 520.70 |
| MW-309 | 3/1/2021 | 13.7 | 7.22 | 0.12 | 816 | -196.3 | 13.80 | 520.75 |
| MW-310A | 3/3/2021 | 13.2 | 7.22 | 3.10 | 1051 | 145.9 | -- | 487.06 |
| MW-311 | 3/1/2021 | 11.5 | 6.99 | 0.13 | 1363 | -179.2 | 1.33 | 522.89 |
| MW-312 | 3/1/2021 | 14.1 | 7.07 | 0.14 | 814 | -192.4 | 0.89 | 520.12 |
| MW-313 | 3/2/2021 | 14.8 | 6.98 | 0.13 | 1224 | -148.0 | 7.46 | 520.18 |
| MW-313A | 3/1/2021 | 14.1 | 7.48 | 0.12 | 927 | -195.9 | 0.78 | 520.02 |

Abbreviations:

mg/L = milligrams per liter
mV = millivolts

amsl = above mean sea level
µmhos/cm = micromohs per cm

Notes:

None

| | |
|------------------------------|-----------------------|
| Created by: <u>ACW</u> | Date: <u>3/5/2021</u> |
| Last revision by: <u>ACW</u> | Date: <u>3/5/2021</u> |
| Checked by: <u>RM</u> | Date: <u>3/5/2021</u> |

C:\Users\FredrickS\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\ZJEZ1WM\210305 - BGS_Field Data Table.xlsx\GW Field Parameters

C2 April 2021 Assessment Monitoring

ANALYTICAL REPORT

Eurofins TestAmerica, Cedar Falls
3019 Venture Way
Cedar Falls, IA 50613
Tel: (319)277-2401

Laboratory Job ID: 310-204849-1

Client Project/Site: Burlington Gen Station 25221066

For:

SCS Engineers
2830 Dairy Drive
Madison, Wisconsin 53718

Attn: Meghan Blodgett



*Authorized for release by:
5/4/2021 12:29:03 PM*

Sandie Fredrick, Project Manager II
(920)261-1660
sandra.fredrick@eurofinset.com

LINKS

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www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Case Narrative

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-204849-1

Job ID: 310-204849-1

Laboratory: Eurofins TestAmerica, Cedar Falls

Narrative

Job Narrative 310-204849-1

Comments

No additional comments.

Receipt

The samples were received on 4/21/2021 4:40 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 5 coolers at receipt time were 0.9° C, 1.1° C, 1.4° C, 1.6° C and 1.6° C.

HPLC/IC

Method 9056A: The following samples were diluted due to the nature of the sample matrix: MW-301 (310-204849-1), MW-302 (310-204849-2), MW-302A (310-204849-3), MW-303 (310-204849-4), MW-304 (310-204849-5), MW-306 (310-204849-7), MW-307 (310-204849-8), MW-308 (310-204849-10), MW-311 (310-204849-14), MW-313 (310-204849-16) and Field Blank (310-204849-18). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Sample Summary

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-204849-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Asset ID |
|---------------|------------------|--------|----------------|----------------|----------|
| 310-204849-1 | MW-301 | Water | 04/19/21 11:40 | 04/21/21 16:40 | |
| 310-204849-2 | MW-302 | Water | 04/19/21 13:50 | 04/21/21 16:40 | |
| 310-204849-3 | MW-302A | Water | 04/19/21 13:15 | 04/21/21 16:40 | |
| 310-204849-4 | MW-303 | Water | 04/19/21 15:55 | 04/21/21 16:40 | |
| 310-204849-5 | MW-304 | Water | 04/19/21 17:00 | 04/21/21 16:40 | |
| 310-204849-6 | MW-305 | Water | 04/20/21 14:00 | 04/21/21 16:40 | |
| 310-204849-7 | MW-306 | Water | 04/19/21 12:20 | 04/21/21 16:40 | |
| 310-204849-8 | MW-307 | Water | 04/20/21 10:30 | 04/21/21 16:40 | |
| 310-204849-9 | MW-307A | Water | 04/20/21 09:35 | 04/21/21 16:40 | |
| 310-204849-10 | MW-308 | Water | 04/20/21 07:45 | 04/21/21 16:40 | |
| 310-204849-11 | MW-309 | Water | 04/19/21 10:20 | 04/21/21 16:40 | |
| 310-204849-12 | MW-310 | Water | 04/19/21 07:30 | 04/21/21 16:40 | |
| 310-204849-14 | MW-311 | Water | 04/19/21 08:50 | 04/21/21 16:40 | |
| 310-204849-15 | MW-312 | Water | 04/19/21 20:15 | 04/21/21 16:40 | |
| 310-204849-16 | MW-313 | Water | 04/19/21 18:20 | 04/21/21 16:40 | |
| 310-204849-17 | MW-313A | Water | 04/19/21 18:55 | 04/21/21 16:40 | |
| 310-204849-18 | Field Blank | Water | 04/20/21 15:00 | 04/21/21 16:40 | |
| 310-204849-19 | MW-310A | Water | 04/20/21 16:45 | 04/21/21 16:40 | |

Detection Summary

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-204849-1

Client Sample ID: MW-301

Lab Sample ID: 310-204849-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------------------|--------|-----------|------|-------|------------|---------|---|----------------|-----------|
| Chloride | 18 | | 5.0 | 2.2 | mg/L | 5 | | 9056A | Total/NA |
| Fluoride | 0.58 | | 0.50 | 0.28 | mg/L | 5 | | 9056A | Total/NA |
| Sulfate | 240 | | 5.0 | 2.5 | mg/L | 5 | | 9056A | Total/NA |
| Arsenic | 61 | | 2.0 | 0.75 | ug/L | 1 | | 6020A | Total/NA |
| Barium | 560 | | 2.0 | 0.30 | ug/L | 1 | | 6020A | Total/NA |
| Boron | 9600 | | 1000 | 580 | ug/L | 10 | | 6020A | Total/NA |
| Cadmium | 0.066 | J | 0.10 | 0.051 | ug/L | 1 | | 6020A | Total/NA |
| Calcium | 240 | | 0.50 | 0.19 | mg/L | 1 | | 6020A | Total/NA |
| Cobalt | 0.81 | | 0.50 | 0.091 | ug/L | 1 | | 6020A | Total/NA |
| Lithium | 10 | | 10 | 2.5 | ug/L | 1 | | 6020A | Total/NA |
| Molybdenum | 46 | | 2.0 | 1.3 | ug/L | 1 | | 6020A | Total/NA |
| Selenium | 1.3 | J | 5.0 | 0.96 | ug/L | 1 | | 6020A | Total/NA |
| Thallium | 1.0 | | 1.0 | 0.26 | ug/L | 1 | | 6020A | Total/NA |
| Total Dissolved Solids | 1200 | | 30 | 26 | mg/L | 1 | | SM 2540C | Total/NA |
| pH | 7.1 | HF | 0.1 | 0.1 | SU | 1 | | SM 4500 H+ B | Total/NA |
| Ground Water Elevation | 522.87 | | | | ft | 1 | | Field Sampling | Total/NA |
| Oxidation Reduction Potential | -162.4 | | | | millivolts | 1 | | Field Sampling | Total/NA |
| Oxygen, Dissolved, Client Supplied | 1.61 | | | | mg/L | 1 | | Field Sampling | Total/NA |
| pH, Field | 7.03 | | | | SU | 1 | | Field Sampling | Total/NA |
| Specific Conductance, Field | 1760 | | | | umhos/cm | 1 | | Field Sampling | Total/NA |
| Temperature, Field | 12.3 | | | | Degrees C | 1 | | Field Sampling | Total/NA |
| Turbidity, Field | 3.82 | | | | NTU | 1 | | Field Sampling | Total/NA |

Client Sample ID: MW-302

Lab Sample ID: 310-204849-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------------------|--------|-----------|------|-------|------------|---------|---|----------------|-----------|
| Chloride | 10 | | 5.0 | 2.2 | mg/L | 5 | | 9056A | Total/NA |
| Sulfate | 410 | | 5.0 | 2.5 | mg/L | 5 | | 9056A | Total/NA |
| Arsenic | 75 | | 2.0 | 0.75 | ug/L | 1 | | 6020A | Total/NA |
| Barium | 320 | | 2.0 | 0.30 | ug/L | 1 | | 6020A | Total/NA |
| Boron | 11000 | | 1000 | 580 | ug/L | 10 | | 6020A | Total/NA |
| Cadmium | 0.089 | J | 0.10 | 0.051 | ug/L | 1 | | 6020A | Total/NA |
| Calcium | 200 | | 0.50 | 0.19 | mg/L | 1 | | 6020A | Total/NA |
| Cobalt | 0.21 | J | 0.50 | 0.091 | ug/L | 1 | | 6020A | Total/NA |
| Lithium | 64 | | 10 | 2.5 | ug/L | 1 | | 6020A | Total/NA |
| Molybdenum | 130 | | 2.0 | 1.3 | ug/L | 1 | | 6020A | Total/NA |
| Selenium | 1.4 | J | 5.0 | 0.96 | ug/L | 1 | | 6020A | Total/NA |
| Thallium | 1.2 | | 1.0 | 0.26 | ug/L | 1 | | 6020A | Total/NA |
| Total Dissolved Solids | 860 | | 30 | 26 | mg/L | 1 | | SM 2540C | Total/NA |
| pH | 8.2 | HF | 0.1 | 0.1 | SU | 1 | | SM 4500 H+ B | Total/NA |
| Ground Water Elevation | 522.27 | | | | ft | 1 | | Field Sampling | Total/NA |
| Oxidation Reduction Potential | -225.8 | | | | millivolts | 1 | | Field Sampling | Total/NA |
| Oxygen, Dissolved, Client Supplied | 0.07 | | | | mg/L | 1 | | Field Sampling | Total/NA |
| pH, Field | 8.15 | | | | SU | 1 | | Field Sampling | Total/NA |
| Specific Conductance, Field | 1169 | | | | umhos/cm | 1 | | Field Sampling | Total/NA |
| Temperature, Field | 12.0 | | | | Degrees C | 1 | | Field Sampling | Total/NA |
| Turbidity, Field | 4.07 | | | | NTU | 1 | | Field Sampling | Total/NA |

Client Sample ID: MW-302A

Lab Sample ID: 310-204849-3

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|----------|--------|-----------|-----|-----|------|---------|---|--------|-----------|
| Chloride | 17 | | 5.0 | 2.2 | mg/L | 5 | | 9056A | Total/NA |

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Cedar Falls

Detection Summary

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-204849-1

Client Sample ID: MW-302A (Continued)

Lab Sample ID: 310-204849-3

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------------------|--------|-----------|------|-------|------------|---------|---|----------------|-----------|
| Sulfate | 310 | | 5.0 | 2.5 | mg/L | 5 | | 9056A | Total/NA |
| Arsenic | 2.1 | | 2.0 | 0.75 | ug/L | 1 | | 6020A | Total/NA |
| Barium | 310 | | 2.0 | 0.30 | ug/L | 1 | | 6020A | Total/NA |
| Boron | 9400 | | 1000 | 580 | ug/L | 10 | | 6020A | Total/NA |
| Calcium | 140 | | 0.50 | 0.19 | mg/L | 1 | | 6020A | Total/NA |
| Cobalt | 0.11 | J | 0.50 | 0.091 | ug/L | 1 | | 6020A | Total/NA |
| Lithium | 9.6 | J | 10 | 2.5 | ug/L | 1 | | 6020A | Total/NA |
| Molybdenum | 95 | | 2.0 | 1.3 | ug/L | 1 | | 6020A | Total/NA |
| Total Dissolved Solids | 710 | | 30 | 26 | mg/L | 1 | | SM 2540C | Total/NA |
| pH | 7.4 | HF | 0.1 | 0.1 | SU | 1 | | SM 4500 H+ B | Total/NA |
| Ground Water Elevation | 522.25 | | | | ft | 1 | | Field Sampling | Total/NA |
| Oxidation Reduction Potential | -150.2 | | | | millivolts | 1 | | Field Sampling | Total/NA |
| Oxygen, Dissolved, Client Supplied | 0.18 | | | | mg/L | 1 | | Field Sampling | Total/NA |
| pH, Field | 7.34 | | | | SU | 1 | | Field Sampling | Total/NA |
| Specific Conductance, Field | 1026 | | | | umhos/cm | 1 | | Field Sampling | Total/NA |
| Temperature, Field | 12.7 | | | | Degrees C | 1 | | Field Sampling | Total/NA |
| Turbidity, Field | 2.94 | | | | NTU | 1 | | Field Sampling | Total/NA |

Client Sample ID: MW-303

Lab Sample ID: 310-204849-4

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------------------|--------|-----------|------|-------|------------|---------|---|----------------|-----------|
| Chloride | 15 | | 5.0 | 2.2 | mg/L | 5 | | 9056A | Total/NA |
| Sulfate | 250 | | 5.0 | 2.5 | mg/L | 5 | | 9056A | Total/NA |
| Arsenic | 15 | | 2.0 | 0.75 | ug/L | 1 | | 6020A | Total/NA |
| Barium | 450 | | 2.0 | 0.30 | ug/L | 1 | | 6020A | Total/NA |
| Boron | 16000 | | 1000 | 580 | ug/L | 10 | | 6020A | Total/NA |
| Calcium | 140 | | 0.50 | 0.19 | mg/L | 1 | | 6020A | Total/NA |
| Cobalt | 0.42 | J | 0.50 | 0.091 | ug/L | 1 | | 6020A | Total/NA |
| Lithium | 66 | | 10 | 2.5 | ug/L | 1 | | 6020A | Total/NA |
| Molybdenum | 120 | | 2.0 | 1.3 | ug/L | 1 | | 6020A | Total/NA |
| Total Dissolved Solids | 670 | | 30 | 26 | mg/L | 1 | | SM 2540C | Total/NA |
| pH | 7.3 | HF | 0.1 | 0.1 | SU | 1 | | SM 4500 H+ B | Total/NA |
| Ground Water Elevation | 522.13 | | | | ft | 1 | | Field Sampling | Total/NA |
| Oxidation Reduction Potential | -144.8 | | | | millivolts | 1 | | Field Sampling | Total/NA |
| Oxygen, Dissolved, Client Supplied | 0.19 | | | | mg/L | 1 | | Field Sampling | Total/NA |
| pH, Field | 7.25 | | | | SU | 1 | | Field Sampling | Total/NA |
| Specific Conductance, Field | 995 | | | | umhos/cm | 1 | | Field Sampling | Total/NA |
| Temperature, Field | 13.2 | | | | Degrees C | 1 | | Field Sampling | Total/NA |
| Turbidity, Field | 4.35 | | | | NTU | 1 | | Field Sampling | Total/NA |

Client Sample ID: MW-304

Lab Sample ID: 310-204849-5

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|------|------|------|---------|---|----------|-----------|
| Chloride | 18 | | 5.0 | 2.2 | mg/L | 5 | | 9056A | Total/NA |
| Sulfate | 280 | | 5.0 | 2.5 | mg/L | 5 | | 9056A | Total/NA |
| Arsenic | 41 | | 2.0 | 0.75 | ug/L | 1 | | 6020A | Total/NA |
| Barium | 180 | | 2.0 | 0.30 | ug/L | 1 | | 6020A | Total/NA |
| Boron | 7700 | | 1000 | 580 | ug/L | 10 | | 6020A | Total/NA |
| Calcium | 110 | | 0.50 | 0.19 | mg/L | 1 | | 6020A | Total/NA |
| Lithium | 75 | | 10 | 2.5 | ug/L | 1 | | 6020A | Total/NA |
| Molybdenum | 100 | | 2.0 | 1.3 | ug/L | 1 | | 6020A | Total/NA |
| Total Dissolved Solids | 640 | | 30 | 26 | mg/L | 1 | | SM 2540C | Total/NA |

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Cedar Falls

Detection Summary

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-204849-1

Client Sample ID: MW-304 (Continued)

Lab Sample ID: 310-204849-5

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------------------|--------|-----------|-----|-----|------------|---------|---|----------------|-----------|
| pH | 8.3 | HF | 0.1 | 0.1 | SU | 1 | | SM 4500 H+ B | Total/NA |
| Ground Water Elevation | 522.24 | | | | ft | 1 | | Field Sampling | Total/NA |
| Oxidation Reduction Potential | -257.8 | | | | millivolts | 1 | | Field Sampling | Total/NA |
| Oxygen, Dissolved, Client Supplied | 0.07 | | | | mg/L | 1 | | Field Sampling | Total/NA |
| pH, Field | 8.32 | | | | SU | 1 | | Field Sampling | Total/NA |
| Specific Conductance, Field | 935 | | | | umhos/cm | 1 | | Field Sampling | Total/NA |
| Temperature, Field | 13.2 | | | | Degrees C | 1 | | Field Sampling | Total/NA |
| Turbidity, Field | 3.34 | | | | NTU | 1 | | Field Sampling | Total/NA |

Client Sample ID: MW-305

Lab Sample ID: 310-204849-6

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------------------|--------|-----------|------|-------|------------|---------|---|----------------|-----------|
| Chloride | 28 | | 5.0 | 2.2 | mg/L | 5 | | 9056A | Total/NA |
| Fluoride | 0.45 | J | 0.50 | 0.28 | mg/L | 5 | | 9056A | Total/NA |
| Sulfate | 28 | | 5.0 | 2.5 | mg/L | 5 | | 9056A | Total/NA |
| Barium | 220 | | 2.0 | 0.30 | ug/L | 1 | | 6020A | Total/NA |
| Boron | 2200 | | 100 | 58 | ug/L | 1 | | 6020A | Total/NA |
| Calcium | 110 | | 0.50 | 0.19 | mg/L | 1 | | 6020A | Total/NA |
| Cobalt | 0.14 | J | 0.50 | 0.091 | ug/L | 1 | | 6020A | Total/NA |
| Lithium | 36 | | 10 | 2.5 | ug/L | 1 | | 6020A | Total/NA |
| Total Dissolved Solids | 420 | | 30 | 26 | mg/L | 1 | | SM 2540C | Total/NA |
| pH | 7.5 | HF | 0.1 | 0.1 | SU | 1 | | SM 4500 H+ B | Total/NA |
| Ground Water Elevation | 522.31 | | | | ft | 1 | | Field Sampling | Total/NA |
| Oxidation Reduction Potential | -135.7 | | | | millivolts | 1 | | Field Sampling | Total/NA |
| Oxygen, Dissolved, Client Supplied | 0.11 | | | | mg/L | 1 | | Field Sampling | Total/NA |
| pH, Field | 7.30 | | | | SU | 1 | | Field Sampling | Total/NA |
| Specific Conductance, Field | 839 | | | | umhos/cm | 1 | | Field Sampling | Total/NA |
| Temperature, Field | 14.7 | | | | Degrees C | 1 | | Field Sampling | Total/NA |
| Turbidity, Field | 1.97 | | | | NTU | 1 | | Field Sampling | Total/NA |

Client Sample ID: MW-306

Lab Sample ID: 310-204849-7

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------------------|--------|-----------|------|------|------------|---------|---|----------------|-----------|
| Chloride | 17 | | 5.0 | 2.2 | mg/L | 5 | | 9056A | Total/NA |
| Sulfate | 110 | | 5.0 | 2.5 | mg/L | 5 | | 9056A | Total/NA |
| Antimony | 1.4 | J | 2.0 | 1.1 | ug/L | 1 | | 6020A | Total/NA |
| Arsenic | 53 | | 2.0 | 0.75 | ug/L | 1 | | 6020A | Total/NA |
| Barium | 19 | | 2.0 | 0.30 | ug/L | 1 | | 6020A | Total/NA |
| Boron | 3000 | | 100 | 58 | ug/L | 1 | | 6020A | Total/NA |
| Calcium | 41 | | 0.50 | 0.19 | mg/L | 1 | | 6020A | Total/NA |
| Lithium | 43 | | 10 | 2.5 | ug/L | 1 | | 6020A | Total/NA |
| Molybdenum | 87 | | 2.0 | 1.3 | ug/L | 1 | | 6020A | Total/NA |
| Total Dissolved Solids | 260 | | 30 | 26 | mg/L | 1 | | SM 2540C | Total/NA |
| pH | 10.3 | HF | 0.1 | 0.1 | SU | 1 | | SM 4500 H+ B | Total/NA |
| Ground Water Elevation | 522.52 | | | | ft | 1 | | Field Sampling | Total/NA |
| Oxidation Reduction Potential | -188.0 | | | | millivolts | 1 | | Field Sampling | Total/NA |
| Oxygen, Dissolved, Client Supplied | 0.34 | | | | mg/L | 1 | | Field Sampling | Total/NA |
| pH, Field | 10.02 | | | | SU | 1 | | Field Sampling | Total/NA |
| Specific Conductance, Field | 442 | | | | umhos/cm | 1 | | Field Sampling | Total/NA |
| Temperature, Field | 13.8 | | | | Degrees C | 1 | | Field Sampling | Total/NA |
| Turbidity, Field | 0.02 | | | | NTU | 1 | | Field Sampling | Total/NA |

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Cedar Falls

Detection Summary

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-204849-1

Client Sample ID: MW-307

Lab Sample ID: 310-204849-8

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------------------|--------|-----------|------|------|------------|---------|---|----------------|-----------|
| Chloride | 17 | | 5.0 | 2.2 | mg/L | 5 | | 9056A | Total/NA |
| Sulfate | 140 | | 5.0 | 2.5 | mg/L | 5 | | 9056A | Total/NA |
| Arsenic | 52 | | 2.0 | 0.75 | ug/L | 1 | | 6020A | Total/NA |
| Barium | 39 | | 2.0 | 0.30 | ug/L | 1 | | 6020A | Total/NA |
| Boron | 3400 | | 100 | 58 | ug/L | 1 | | 6020A | Total/NA |
| Calcium | 39 | | 0.50 | 0.19 | mg/L | 1 | | 6020A | Total/NA |
| Lithium | 53 | | 10 | 2.5 | ug/L | 1 | | 6020A | Total/NA |
| Molybdenum | 140 | | 2.0 | 1.3 | ug/L | 1 | | 6020A | Total/NA |
| Total Dissolved Solids | 330 | | 30 | 26 | mg/L | 1 | | SM 2540C | Total/NA |
| pH | 10.4 | HF | 0.1 | 0.1 | SU | 1 | | SM 4500 H+ B | Total/NA |
| Ground Water Elevation | 522.89 | | | | ft | 1 | | Field Sampling | Total/NA |
| Oxidation Reduction Potential | -242.4 | | | | millivolts | 1 | | Field Sampling | Total/NA |
| Oxygen, Dissolved, Client Supplied | 0.08 | | | | mg/L | 1 | | Field Sampling | Total/NA |
| pH, Field | 10.02 | | | | SU | 1 | | Field Sampling | Total/NA |
| Specific Conductance, Field | 546 | | | | umhos/cm | 1 | | Field Sampling | Total/NA |
| Temperature, Field | 13.9 | | | | Degrees C | 1 | | Field Sampling | Total/NA |
| Turbidity, Field | 2.38 | | | | NTU | 1 | | Field Sampling | Total/NA |

Client Sample ID: MW-307A

Lab Sample ID: 310-204849-9

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------------------|--------|-----------|------|------|------------|---------|---|----------------|-----------|
| Chloride | 28 | | 5.0 | 2.2 | mg/L | 5 | | 9056A | Total/NA |
| Fluoride | 0.38 | J | 0.50 | 0.28 | mg/L | 5 | | 9056A | Total/NA |
| Sulfate | 110 | | 5.0 | 2.5 | mg/L | 5 | | 9056A | Total/NA |
| Barium | 48 | | 2.0 | 0.30 | ug/L | 1 | | 6020A | Total/NA |
| Boron | 4100 | | 400 | 230 | ug/L | 4 | | 6020A | Total/NA |
| Calcium | 11 | | 0.50 | 0.19 | mg/L | 1 | | 6020A | Total/NA |
| Lead | 0.59 | | 0.50 | 0.21 | ug/L | 1 | | 6020A | Total/NA |
| Lithium | 8.7 | J | 10 | 2.5 | ug/L | 1 | | 6020A | Total/NA |
| Molybdenum | 120 | | 2.0 | 1.3 | ug/L | 1 | | 6020A | Total/NA |
| Total Dissolved Solids | 330 | | 30 | 26 | mg/L | 1 | | SM 2540C | Total/NA |
| pH | 8.1 | HF | 0.1 | 0.1 | SU | 1 | | SM 4500 H+ B | Total/NA |
| Ground Water Elevation | 522.39 | | | | ft | 1 | | Field Sampling | Total/NA |
| Oxidation Reduction Potential | -167.3 | | | | millivolts | 1 | | Field Sampling | Total/NA |
| Oxygen, Dissolved, Client Supplied | 0.13 | | | | mg/L | 1 | | Field Sampling | Total/NA |
| pH, Field | 7.74 | | | | SU | 1 | | Field Sampling | Total/NA |
| Specific Conductance, Field | 566 | | | | umhos/cm | 1 | | Field Sampling | Total/NA |
| Temperature, Field | 13.7 | | | | Degrees C | 1 | | Field Sampling | Total/NA |
| Turbidity, Field | 2.89 | | | | NTU | 1 | | Field Sampling | Total/NA |

Client Sample ID: MW-308

Lab Sample ID: 310-204849-10

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|------|------|------|---------|---|----------|-----------|
| Chloride | 39 | | 5.0 | 2.2 | mg/L | 5 | | 9056A | Total/NA |
| Sulfate | 140 | | 5.0 | 2.5 | mg/L | 5 | | 9056A | Total/NA |
| Arsenic | 73 | | 2.0 | 0.75 | ug/L | 1 | | 6020A | Total/NA |
| Barium | 79 | | 2.0 | 0.30 | ug/L | 1 | | 6020A | Total/NA |
| Boron | 4300 | | 400 | 230 | ug/L | 4 | | 6020A | Total/NA |
| Calcium | 38 | | 0.50 | 0.19 | mg/L | 1 | | 6020A | Total/NA |
| Lithium | 54 | | 10 | 2.5 | ug/L | 1 | | 6020A | Total/NA |
| Molybdenum | 120 | | 2.0 | 1.3 | ug/L | 1 | | 6020A | Total/NA |
| Total Dissolved Solids | 430 | | 30 | 26 | mg/L | 1 | | SM 2540C | Total/NA |

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Cedar Falls

Detection Summary

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-204849-1

Client Sample ID: MW-308 (Continued)

Lab Sample ID: 310-204849-10

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------------------|--------|-----------|-----|-----|------------|---------|---|----------------|-----------|
| pH | 9.8 | HF | 0.1 | 0.1 | SU | 1 | | SM 4500 H+ B | Total/NA |
| Ground Water Elevation | 522.57 | | | | ft | 1 | | Field Sampling | Total/NA |
| Oxidation Reduction Potential | -172.9 | | | | millivolts | 1 | | Field Sampling | Total/NA |
| Oxygen, Dissolved, Client Supplied | 0.08 | | | | mg/L | 1 | | Field Sampling | Total/NA |
| pH, Field | 9.56 | | | | SU | 1 | | Field Sampling | Total/NA |
| Specific Conductance, Field | 690 | | | | umhos/cm | 1 | | Field Sampling | Total/NA |
| Temperature, Field | 14.1 | | | | Degrees C | 1 | | Field Sampling | Total/NA |
| Turbidity, Field | 1.77 | | | | NTU | 1 | | Field Sampling | Total/NA |

Client Sample ID: MW-309

Lab Sample ID: 310-204849-11

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------------------|--------|-----------|------|-------|------------|---------|---|----------------|-----------|
| Chloride | 85 | | 5.0 | 2.2 | mg/L | 5 | | 9056A | Total/NA |
| Fluoride | 0.36 | J | 0.50 | 0.28 | mg/L | 5 | | 9056A | Total/NA |
| Sulfate | 57 | | 5.0 | 2.5 | mg/L | 5 | | 9056A | Total/NA |
| Arsenic | 30 | | 2.0 | 0.75 | ug/L | 1 | | 6020A | Total/NA |
| Barium | 340 | | 2.0 | 0.30 | ug/L | 1 | | 6020A | Total/NA |
| Boron | 5000 | | 400 | 230 | ug/L | 4 | | 6020A | Total/NA |
| Calcium | 76 | | 0.50 | 0.19 | mg/L | 1 | | 6020A | Total/NA |
| Cobalt | 0.39 | J | 0.50 | 0.091 | ug/L | 1 | | 6020A | Total/NA |
| Lithium | 3.8 | J | 10 | 2.5 | ug/L | 1 | | 6020A | Total/NA |
| Molybdenum | 50 | | 2.0 | 1.3 | ug/L | 1 | | 6020A | Total/NA |
| Total Dissolved Solids | 570 | | 30 | 26 | mg/L | 1 | | SM 2540C | Total/NA |
| pH | 7.3 | HF | 0.1 | 0.1 | SU | 1 | | SM 4500 H+ B | Total/NA |
| Ground Water Elevation | 522.72 | | | | ft | 1 | | Field Sampling | Total/NA |
| Oxidation Reduction Potential | -170.7 | | | | millivolts | 1 | | Field Sampling | Total/NA |
| Oxygen, Dissolved, Client Supplied | 0.16 | | | | mg/L | 1 | | Field Sampling | Total/NA |
| pH, Field | 7.26 | | | | SU | 1 | | Field Sampling | Total/NA |
| Specific Conductance, Field | 1017 | | | | umhos/cm | 1 | | Field Sampling | Total/NA |
| Temperature, Field | 13.2 | | | | Degrees C | 1 | | Field Sampling | Total/NA |
| Turbidity, Field | 21.2 | | | | NTU | 1 | | Field Sampling | Total/NA |

Client Sample ID: MW-310

Lab Sample ID: 310-204849-12

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------------------|--------|-----------|------|-------|------------|---------|---|----------------|-----------|
| Chloride | 16 | | 5.0 | 2.2 | mg/L | 5 | | 9056A | Total/NA |
| Fluoride | 0.37 | J | 0.50 | 0.28 | mg/L | 5 | | 9056A | Total/NA |
| Sulfate | 55 | | 5.0 | 2.5 | mg/L | 5 | | 9056A | Total/NA |
| Arsenic | 16 | | 2.0 | 0.75 | ug/L | 1 | | 6020A | Total/NA |
| Barium | 280 | | 2.0 | 0.30 | ug/L | 1 | | 6020A | Total/NA |
| Boron | 220 | | 100 | 58 | ug/L | 1 | | 6020A | Total/NA |
| Calcium | 190 | | 0.50 | 0.19 | mg/L | 1 | | 6020A | Total/NA |
| Cobalt | 0.29 | J | 0.50 | 0.091 | ug/L | 1 | | 6020A | Total/NA |
| Molybdenum | 14 | | 2.0 | 1.3 | ug/L | 1 | | 6020A | Total/NA |
| Total Dissolved Solids | 370 | | 30 | 26 | mg/L | 1 | | SM 2540C | Total/NA |
| pH | 7.3 | HF | 0.1 | 0.1 | SU | 1 | | SM 4500 H+ B | Total/NA |
| Ground Water Elevation | 525.46 | | | | ft | 1 | | Field Sampling | Total/NA |
| Oxidation Reduction Potential | -193.2 | | | | millivolts | 1 | | Field Sampling | Total/NA |
| Oxygen, Dissolved, Client Supplied | 0.17 | | | | mg/L | 1 | | Field Sampling | Total/NA |
| pH, Field | 7.21 | | | | SU | 1 | | Field Sampling | Total/NA |
| Specific Conductance, Field | 735 | | | | umhos/cm | 1 | | Field Sampling | Total/NA |
| Temperature, Field | 10.8 | | | | Degrees C | 1 | | Field Sampling | Total/NA |

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Cedar Falls

Detection Summary

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-204849-1

Client Sample ID: MW-310 (Continued)

Lab Sample ID: 310-204849-12

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------|--------|-----------|----|-----|------|---------|---|----------------|-----------|
| Turbidity, Field | 2.57 | | | | NTU | 1 | | Field Sampling | Total/NA |

Client Sample ID: MW-311

Lab Sample ID: 310-204849-14

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------------------|--------|-----------|------|-------|------------|---------|---|----------------|-----------|
| Chloride | 100 | | 5.0 | 2.2 | mg/L | 5 | | 9056A | Total/NA |
| Sulfate | 200 | | 5.0 | 2.5 | mg/L | 5 | | 9056A | Total/NA |
| Arsenic | 55 | | 2.0 | 0.75 | ug/L | 1 | | 6020A | Total/NA |
| Barium | 370 | | 2.0 | 0.30 | ug/L | 1 | | 6020A | Total/NA |
| Boron | 2000 | | 100 | 58 | ug/L | 1 | | 6020A | Total/NA |
| Calcium | 98 | | 0.50 | 0.19 | mg/L | 1 | | 6020A | Total/NA |
| Cobalt | 1.4 | | 0.50 | 0.091 | ug/L | 1 | | 6020A | Total/NA |
| Molybdenum | 4.1 | | 2.0 | 1.3 | ug/L | 1 | | 6020A | Total/NA |
| Total Dissolved Solids | 870 | | 30 | 26 | mg/L | 1 | | SM 2540C | Total/NA |
| pH | 7.2 | HF | 0.1 | 0.1 | SU | 1 | | SM 4500 H+ B | Total/NA |
| Ground Water Elevation | 523.89 | | | | ft | 1 | | Field Sampling | Total/NA |
| Oxidation Reduction Potential | -158.6 | | | | millivolts | 1 | | Field Sampling | Total/NA |
| Oxygen, Dissolved, Client Supplied | 0.48 | | | | mg/L | 1 | | Field Sampling | Total/NA |
| pH, Field | 7.16 | | | | SU | 1 | | Field Sampling | Total/NA |
| Specific Conductance, Field | 1473 | | | | umhos/cm | 1 | | Field Sampling | Total/NA |
| Temperature, Field | 10.9 | | | | Degrees C | 1 | | Field Sampling | Total/NA |
| Turbidity, Field | 4.56 | | | | NTU | 1 | | Field Sampling | Total/NA |

Client Sample ID: MW-312

Lab Sample ID: 310-204849-15

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------------------|--------|-----------|------|-------|------------|---------|---|----------------|-----------|
| Chloride | 20 | | 5.0 | 2.2 | mg/L | 5 | | 9056A | Total/NA |
| Fluoride | 0.33 | J | 0.50 | 0.28 | mg/L | 5 | | 9056A | Total/NA |
| Sulfate | 190 | | 5.0 | 2.5 | mg/L | 5 | | 9056A | Total/NA |
| Arsenic | 18 | | 2.0 | 0.75 | ug/L | 1 | | 6020A | Total/NA |
| Barium | 200 | | 2.0 | 0.30 | ug/L | 1 | | 6020A | Total/NA |
| Boron | 5800 | | 400 | 230 | ug/L | 4 | | 6020A | Total/NA |
| Cadmium | 0.053 | J | 0.10 | 0.051 | ug/L | 1 | | 6020A | Total/NA |
| Calcium | 84 | | 0.50 | 0.19 | mg/L | 1 | | 6020A | Total/NA |
| Cobalt | 0.54 | | 0.50 | 0.091 | ug/L | 1 | | 6020A | Total/NA |
| Lithium | 30 | | 10 | 2.5 | ug/L | 1 | | 6020A | Total/NA |
| Molybdenum | 310 | | 2.0 | 1.3 | ug/L | 1 | | 6020A | Total/NA |
| Total Dissolved Solids | 540 | | 30 | 26 | mg/L | 1 | | SM 2540C | Total/NA |
| pH | 7.4 | HF | 0.1 | 0.1 | SU | 1 | | SM 4500 H+ B | Total/NA |
| Ground Water Elevation | 522.20 | | | | ft | 1 | | Field Sampling | Total/NA |
| Oxidation Reduction Potential | -162.9 | | | | millivolts | 1 | | Field Sampling | Total/NA |
| Oxygen, Dissolved, Client Supplied | 0.12 | | | | mg/L | 1 | | Field Sampling | Total/NA |
| pH, Field | 7.22 | | | | SU | 1 | | Field Sampling | Total/NA |
| Specific Conductance, Field | 875 | | | | umhos/cm | 1 | | Field Sampling | Total/NA |
| Temperature, Field | 13.7 | | | | Degrees C | 1 | | Field Sampling | Total/NA |
| Turbidity, Field | 8.82 | | | | NTU | 1 | | Field Sampling | Total/NA |

Client Sample ID: MW-313

Lab Sample ID: 310-204849-16

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|----------|--------|-----------|-----|-----|------|---------|---|--------|-----------|
| Chloride | 72 | | 5.0 | 2.2 | mg/L | 5 | | 9056A | Total/NA |
| Sulfate | 120 | | 5.0 | 2.5 | mg/L | 5 | | 9056A | Total/NA |

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Cedar Falls

Detection Summary

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-204849-1

Client Sample ID: MW-313 (Continued)

Lab Sample ID: 310-204849-16

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------------------|--------|-----------|------|-------|------------|---------|---|----------------|-----------|
| Arsenic | 5.2 | | 2.0 | 0.75 | ug/L | 1 | | 6020A | Total/NA |
| Barium | 630 | | 2.0 | 0.30 | ug/L | 1 | | 6020A | Total/NA |
| Boron | 6900 | | 700 | 410 | ug/L | 7 | | 6020A | Total/NA |
| Calcium | 120 | | 0.50 | 0.19 | mg/L | 1 | | 6020A | Total/NA |
| Cobalt | 0.20 | J | 0.50 | 0.091 | ug/L | 1 | | 6020A | Total/NA |
| Lithium | 36 | | 10 | 2.5 | ug/L | 1 | | 6020A | Total/NA |
| Molybdenum | 140 | | 2.0 | 1.3 | ug/L | 1 | | 6020A | Total/NA |
| Total Dissolved Solids | 680 | | 30 | 26 | mg/L | 1 | | SM 2540C | Total/NA |
| pH | 7.3 | HF | 0.1 | 0.1 | SU | 1 | | SM 4500 H+ B | Total/NA |
| Ground Water Elevation | 522.23 | | | | ft | 1 | | Field Sampling | Total/NA |
| Oxidation Reduction Potential | -152.8 | | | | millivolts | 1 | | Field Sampling | Total/NA |
| Oxygen, Dissolved, Client Supplied | 0.21 | | | | mg/L | 1 | | Field Sampling | Total/NA |
| pH, Field | 7.09 | | | | SU | 1 | | Field Sampling | Total/NA |
| Specific Conductance, Field | 1165 | | | | umhos/cm | 1 | | Field Sampling | Total/NA |
| Temperature, Field | 14.5 | | | | Degrees C | 1 | | Field Sampling | Total/NA |
| Turbidity, Field | 4.54 | | | | NTU | 1 | | Field Sampling | Total/NA |

Client Sample ID: MW-313A

Lab Sample ID: 310-204849-17

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------------------|--------|-----------|------|------|------------|---------|---|----------------|-----------|
| Chloride | 140 | | 5.0 | 2.2 | mg/L | 5 | | 9056A | Total/NA |
| Fluoride | 0.46 | J | 0.50 | 0.28 | mg/L | 5 | | 9056A | Total/NA |
| Sulfate | 150 | | 5.0 | 2.5 | mg/L | 5 | | 9056A | Total/NA |
| Barium | 240 | | 2.0 | 0.30 | ug/L | 1 | | 6020A | Total/NA |
| Boron | 4100 | | 100 | 58 | ug/L | 1 | | 6020A | Total/NA |
| Calcium | 42 | | 0.50 | 0.19 | mg/L | 1 | | 6020A | Total/NA |
| Lithium | 14 | | 10 | 2.5 | ug/L | 1 | | 6020A | Total/NA |
| Molybdenum | 100 | | 2.0 | 1.3 | ug/L | 1 | | 6020A | Total/NA |
| Total Dissolved Solids | 580 | | 30 | 26 | mg/L | 1 | | SM 2540C | Total/NA |
| pH | 7.7 | HF | 0.1 | 0.1 | SU | 1 | | SM 4500 H+ B | Total/NA |
| Ground Water Elevation | 522.11 | | | | ft | 1 | | Field Sampling | Total/NA |
| Oxidation Reduction Potential | -172.1 | | | | millivolts | 1 | | Field Sampling | Total/NA |
| Oxygen, Dissolved, Client Supplied | 0.09 | | | | mg/L | 1 | | Field Sampling | Total/NA |
| pH, Field | 7.58 | | | | SU | 1 | | Field Sampling | Total/NA |
| Specific Conductance, Field | 1023 | | | | umhos/cm | 1 | | Field Sampling | Total/NA |
| Temperature, Field | 14.2 | | | | Degrees C | 1 | | Field Sampling | Total/NA |
| Turbidity, Field | 1.71 | | | | NTU | 1 | | Field Sampling | Total/NA |

Client Sample ID: Field Blank

Lab Sample ID: 310-204849-18

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|-----|------|------|---------|---|--------------|-----------|
| Barium | 0.30 | J | 2.0 | 0.30 | ug/L | 1 | | 6020A | Total/NA |
| Boron | 130 | | 100 | 58 | ug/L | 1 | | 6020A | Total/NA |
| pH | 8.3 | HF | 0.1 | 0.1 | SU | 1 | | SM 4500 H+ B | Total/NA |

Client Sample ID: MW-310A

Lab Sample ID: 310-204849-19

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|----------|--------|-----------|------|------|------|---------|---|--------|-----------|
| Chloride | 14 | | 5.0 | 2.2 | mg/L | 5 | | 9056A | Total/NA |
| Fluoride | 0.44 | J | 0.50 | 0.28 | mg/L | 5 | | 9056A | Total/NA |
| Sulfate | 120 | | 5.0 | 2.5 | mg/L | 5 | | 9056A | Total/NA |
| Arsenic | 3.5 | | 2.0 | 0.75 | ug/L | 1 | | 6020A | Total/NA |

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Cedar Falls

Detection Summary

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-204849-1

Client Sample ID: MW-310A (Continued)

Lab Sample ID: 310-204849-19

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------------------|--------|-----------|------|-------|------------|---------|---|----------------|-----------|
| Barium | 75 | | 2.0 | 0.30 | ug/L | 1 | | 6020A | Total/NA |
| Boron | 1100 | | 100 | 58 | ug/L | 1 | | 6020A | Total/NA |
| Calcium | 52 | | 0.50 | 0.19 | mg/L | 1 | | 6020A | Total/NA |
| Chromium | 1.5 | J | 5.0 | 1.1 | ug/L | 1 | | 6020A | Total/NA |
| Cobalt | 3.0 | | 0.50 | 0.091 | ug/L | 1 | | 6020A | Total/NA |
| Lead | 2.8 | | 0.50 | 0.21 | ug/L | 1 | | 6020A | Total/NA |
| Lithium | 40 | | 10 | 2.5 | ug/L | 1 | | 6020A | Total/NA |
| Molybdenum | 24 | | 2.0 | 1.3 | ug/L | 1 | | 6020A | Total/NA |
| Total Dissolved Solids | 660 | | 30 | 26 | mg/L | 1 | | SM 2540C | Total/NA |
| pH | 7.6 | HF | 0.1 | 0.1 | SU | 1 | | SM 4500 H+ B | Total/NA |
| Ground Water Elevation | 521.12 | | | | ft | 1 | | Field Sampling | Total/NA |
| Oxidation Reduction Potential | 55.0 | | | | millivolts | 1 | | Field Sampling | Total/NA |
| Oxygen, Dissolved, Client Supplied | 3.69 | | | | mg/L | 1 | | Field Sampling | Total/NA |
| pH, Field | 7.41 | | | | SU | 1 | | Field Sampling | Total/NA |
| Specific Conductance, Field | 1042 | | | | umhos/cm | 1 | | Field Sampling | Total/NA |
| Temperature, Field | 11.7 | | | | Degrees C | 1 | | Field Sampling | Total/NA |
| Turbidity, Field | - | | | | NTU | 1 | | Field Sampling | Total/NA |

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Cedar Falls

Client Sample Results

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-204849-1

Client Sample ID: MW-301

Lab Sample ID: 310-204849-1

Date Collected: 04/19/21 11:40

Matrix: Water

Date Received: 04/21/21 16:40

Method: 9056A - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|------|------|---|----------|----------------|---------|
| Chloride | 18 | | 5.0 | 2.2 | mg/L | | | 04/27/21 09:02 | 5 |
| Fluoride | 0.58 | | 0.50 | 0.28 | mg/L | | | 04/27/21 09:02 | 5 |
| Sulfate | 240 | | 5.0 | 2.5 | mg/L | | | 04/27/21 09:02 | 5 |

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Antimony | <1.1 | | 2.0 | 1.1 | ug/L | | 04/23/21 09:00 | 04/29/21 20:24 | 1 |
| Arsenic | 61 | | 2.0 | 0.75 | ug/L | | 04/23/21 09:00 | 04/29/21 20:24 | 1 |
| Barium | 560 | | 2.0 | 0.30 | ug/L | | 04/23/21 09:00 | 04/29/21 20:24 | 1 |
| Beryllium | <0.27 | | 1.0 | 0.27 | ug/L | | 04/23/21 09:00 | 04/29/21 20:24 | 1 |
| Boron | 9600 | | 1000 | 580 | ug/L | | 04/23/21 09:00 | 04/30/21 13:31 | 10 |
| Cadmium | 0.066 | J | 0.10 | 0.051 | ug/L | | 04/23/21 09:00 | 04/29/21 20:24 | 1 |
| Calcium | 240 | | 0.50 | 0.19 | mg/L | | 04/23/21 09:00 | 04/29/21 20:24 | 1 |
| Chromium | <1.1 | | 5.0 | 1.1 | ug/L | | 04/23/21 09:00 | 04/29/21 20:24 | 1 |
| Cobalt | 0.81 | | 0.50 | 0.091 | ug/L | | 04/23/21 09:00 | 04/29/21 20:24 | 1 |
| Lead | <0.21 | | 0.50 | 0.21 | ug/L | | 04/23/21 09:00 | 04/29/21 20:24 | 1 |
| Lithium | 10 | | 10 | 2.5 | ug/L | | 04/23/21 09:00 | 04/29/21 20:24 | 1 |
| Molybdenum | 46 | | 2.0 | 1.3 | ug/L | | 04/23/21 09:00 | 04/29/21 20:24 | 1 |
| Selenium | 1.3 | J | 5.0 | 0.96 | ug/L | | 04/23/21 09:00 | 04/29/21 20:24 | 1 |
| Thallium | 1.0 | | 1.0 | 0.26 | ug/L | | 04/23/21 09:00 | 04/29/21 20:24 | 1 |

Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.15 | | 0.20 | 0.15 | ug/L | | 04/28/21 10:00 | 04/29/21 12:57 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 1200 | | 30 | 26 | mg/L | | | 04/23/21 09:11 | 1 |
| pH | 7.1 | HF | 0.1 | 0.1 | SU | | | 04/21/21 17:18 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|--------|-----------|----|-----|------------|---|----------|----------------|---------|
| Ground Water Elevation | 522.87 | | | | ft | | | 04/19/21 11:40 | 1 |
| Oxidation Reduction Potential | -162.4 | | | | millivolts | | | 04/19/21 11:40 | 1 |
| Oxygen, Dissolved, Client Supplied | 1.61 | | | | mg/L | | | 04/19/21 11:40 | 1 |
| pH, Field | 7.03 | | | | SU | | | 04/19/21 11:40 | 1 |
| Specific Conductance, Field | 1760 | | | | umhos/cm | | | 04/19/21 11:40 | 1 |
| Temperature, Field | 12.3 | | | | Degrees C | | | 04/19/21 11:40 | 1 |
| Turbidity, Field | 3.82 | | | | NTU | | | 04/19/21 11:40 | 1 |

Client Sample Results

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-204849-1

Client Sample ID: MW-302

Lab Sample ID: 310-204849-2

Date Collected: 04/19/21 13:50

Matrix: Water

Date Received: 04/21/21 16:40

Method: 9056A - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------|------------|-----------|------|------|------|---|----------|----------------|---------|
| Chloride | 10 | | 5.0 | 2.2 | mg/L | | | 04/27/21 09:18 | 5 |
| Fluoride | <0.28 | | 0.50 | 0.28 | mg/L | | | 04/27/21 09:18 | 5 |
| Sulfate | 410 | | 5.0 | 2.5 | mg/L | | | 04/27/21 09:18 | 5 |

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------|--------------|-----------|------|-------|------|---|----------------|----------------|---------|
| Antimony | <1.1 | | 2.0 | 1.1 | ug/L | | 04/23/21 09:00 | 04/29/21 20:34 | 1 |
| Arsenic | 75 | | 2.0 | 0.75 | ug/L | | 04/23/21 09:00 | 04/29/21 20:34 | 1 |
| Barium | 320 | | 2.0 | 0.30 | ug/L | | 04/23/21 09:00 | 04/29/21 20:34 | 1 |
| Beryllium | <0.27 | | 1.0 | 0.27 | ug/L | | 04/23/21 09:00 | 04/29/21 20:34 | 1 |
| Boron | 11000 | | 1000 | 580 | ug/L | | 04/23/21 09:00 | 04/30/21 13:39 | 10 |
| Cadmium | 0.089 | J | 0.10 | 0.051 | ug/L | | 04/23/21 09:00 | 04/29/21 20:34 | 1 |
| Calcium | 200 | | 0.50 | 0.19 | mg/L | | 04/23/21 09:00 | 04/29/21 20:34 | 1 |
| Chromium | <1.1 | | 5.0 | 1.1 | ug/L | | 04/23/21 09:00 | 04/29/21 20:34 | 1 |
| Cobalt | 0.21 | J | 0.50 | 0.091 | ug/L | | 04/23/21 09:00 | 04/29/21 20:34 | 1 |
| Lead | <0.21 | | 0.50 | 0.21 | ug/L | | 04/23/21 09:00 | 04/29/21 20:34 | 1 |
| Lithium | 64 | | 10 | 2.5 | ug/L | | 04/23/21 09:00 | 04/29/21 20:34 | 1 |
| Molybdenum | 130 | | 2.0 | 1.3 | ug/L | | 04/23/21 09:00 | 04/29/21 20:34 | 1 |
| Selenium | 1.4 | J | 5.0 | 0.96 | ug/L | | 04/23/21 09:00 | 04/29/21 20:34 | 1 |
| Thallium | 1.2 | | 1.0 | 0.26 | ug/L | | 04/23/21 09:00 | 04/29/21 20:34 | 1 |

Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.15 | | 0.20 | 0.15 | ug/L | | 04/28/21 10:00 | 04/29/21 12:59 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|------------|-----------|-----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 860 | | 30 | 26 | mg/L | | | 04/23/21 09:11 | 1 |
| pH | 8.2 | HF | 0.1 | 0.1 | SU | | | 04/21/21 17:22 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------------|---------------|-----------|----|-----|------------|---|----------|----------------|---------|
| Ground Water Elevation | 522.27 | | | | ft | | | 04/19/21 13:50 | 1 |
| Oxidation Reduction Potential | -225.8 | | | | millivolts | | | 04/19/21 13:50 | 1 |
| Oxygen, Dissolved, Client Supplied | 0.07 | | | | mg/L | | | 04/19/21 13:50 | 1 |
| pH, Field | 8.15 | | | | SU | | | 04/19/21 13:50 | 1 |
| Specific Conductance, Field | 1169 | | | | umhos/cm | | | 04/19/21 13:50 | 1 |
| Temperature, Field | 12.0 | | | | Degrees C | | | 04/19/21 13:50 | 1 |
| Turbidity, Field | 4.07 | | | | NTU | | | 04/19/21 13:50 | 1 |

Client Sample Results

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-204849-1

Client Sample ID: MW-302A

Lab Sample ID: 310-204849-3

Date Collected: 04/19/21 13:15

Matrix: Water

Date Received: 04/21/21 16:40

Method: 9056A - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------|------------|-----------|------|------|------|---|----------|----------------|---------|
| Chloride | 17 | | 5.0 | 2.2 | mg/L | | | 04/27/21 09:34 | 5 |
| Fluoride | <0.28 | | 0.50 | 0.28 | mg/L | | | 04/27/21 09:34 | 5 |
| Sulfate | 310 | | 5.0 | 2.5 | mg/L | | | 04/27/21 09:34 | 5 |

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------|-------------|-----------|------|-------|------|---|----------------|----------------|---------|
| Antimony | <1.1 | | 2.0 | 1.1 | ug/L | | 04/23/21 09:00 | 04/29/21 20:37 | 1 |
| Arsenic | 2.1 | | 2.0 | 0.75 | ug/L | | 04/23/21 09:00 | 04/29/21 20:37 | 1 |
| Barium | 310 | | 2.0 | 0.30 | ug/L | | 04/23/21 09:00 | 04/29/21 20:37 | 1 |
| Beryllium | <0.27 | | 1.0 | 0.27 | ug/L | | 04/23/21 09:00 | 04/29/21 20:37 | 1 |
| Boron | 9400 | | 1000 | 580 | ug/L | | 04/23/21 09:00 | 04/30/21 13:42 | 10 |
| Cadmium | <0.051 | | 0.10 | 0.051 | ug/L | | 04/23/21 09:00 | 04/29/21 20:37 | 1 |
| Calcium | 140 | | 0.50 | 0.19 | mg/L | | 04/23/21 09:00 | 04/29/21 20:37 | 1 |
| Chromium | <1.1 | | 5.0 | 1.1 | ug/L | | 04/23/21 09:00 | 04/29/21 20:37 | 1 |
| Cobalt | 0.11 | J | 0.50 | 0.091 | ug/L | | 04/23/21 09:00 | 04/29/21 20:37 | 1 |
| Lead | <0.21 | | 0.50 | 0.21 | ug/L | | 04/23/21 09:00 | 04/29/21 20:37 | 1 |
| Lithium | 9.6 | J | 10 | 2.5 | ug/L | | 04/23/21 09:00 | 04/29/21 20:37 | 1 |
| Molybdenum | 95 | | 2.0 | 1.3 | ug/L | | 04/23/21 09:00 | 04/29/21 20:37 | 1 |
| Selenium | <0.96 | | 5.0 | 0.96 | ug/L | | 04/23/21 09:00 | 04/29/21 20:37 | 1 |
| Thallium | <0.26 | | 1.0 | 0.26 | ug/L | | 04/23/21 09:00 | 04/29/21 20:37 | 1 |

Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.15 | | 0.20 | 0.15 | ug/L | | 04/28/21 10:00 | 04/29/21 13:02 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|------------|-----------|-----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 710 | | 30 | 26 | mg/L | | | 04/23/21 09:11 | 1 |
| pH | 7.4 | HF | 0.1 | 0.1 | SU | | | 04/21/21 17:14 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------------|---------------|-----------|----|-----|------------|---|----------|----------------|---------|
| Ground Water Elevation | 522.25 | | | | ft | | | 04/19/21 13:15 | 1 |
| Oxidation Reduction Potential | -150.2 | | | | millivolts | | | 04/19/21 13:15 | 1 |
| Oxygen, Dissolved, Client Supplied | 0.18 | | | | mg/L | | | 04/19/21 13:15 | 1 |
| pH, Field | 7.34 | | | | SU | | | 04/19/21 13:15 | 1 |
| Specific Conductance, Field | 1026 | | | | umhos/cm | | | 04/19/21 13:15 | 1 |
| Temperature, Field | 12.7 | | | | Degrees C | | | 04/19/21 13:15 | 1 |
| Turbidity, Field | 2.94 | | | | NTU | | | 04/19/21 13:15 | 1 |

Client Sample Results

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-204849-1

Client Sample ID: MW-303

Lab Sample ID: 310-204849-4

Date Collected: 04/19/21 15:55

Matrix: Water

Date Received: 04/21/21 16:40

Method: 9056A - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------|------------|-----------|------|------|------|---|----------|----------------|---------|
| Chloride | 15 | | 5.0 | 2.2 | mg/L | | | 04/27/21 09:50 | 5 |
| Fluoride | <0.28 | | 0.50 | 0.28 | mg/L | | | 04/27/21 09:50 | 5 |
| Sulfate | 250 | | 5.0 | 2.5 | mg/L | | | 04/27/21 09:50 | 5 |

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------|---------------|-----------|------|-------|------|---|----------------|----------------|---------|
| Antimony | <1.1 | | 2.0 | 1.1 | ug/L | | 04/23/21 09:00 | 04/29/21 20:39 | 1 |
| Arsenic | 15 | | 2.0 | 0.75 | ug/L | | 04/23/21 09:00 | 04/29/21 20:39 | 1 |
| Barium | 450 | | 2.0 | 0.30 | ug/L | | 04/23/21 09:00 | 04/29/21 20:39 | 1 |
| Beryllium | <0.27 | | 1.0 | 0.27 | ug/L | | 04/23/21 09:00 | 04/29/21 20:39 | 1 |
| Boron | 16000 | | 1000 | 580 | ug/L | | 04/23/21 09:00 | 04/30/21 13:44 | 10 |
| Cadmium | <0.051 | | 0.10 | 0.051 | ug/L | | 04/23/21 09:00 | 04/29/21 20:39 | 1 |
| Calcium | 140 | | 0.50 | 0.19 | mg/L | | 04/23/21 09:00 | 04/29/21 20:39 | 1 |
| Chromium | <1.1 | | 5.0 | 1.1 | ug/L | | 04/23/21 09:00 | 04/29/21 20:39 | 1 |
| Cobalt | 0.42 J | | 0.50 | 0.091 | ug/L | | 04/23/21 09:00 | 04/29/21 20:39 | 1 |
| Lead | <0.21 | | 0.50 | 0.21 | ug/L | | 04/23/21 09:00 | 04/29/21 20:39 | 1 |
| Lithium | 66 | | 10 | 2.5 | ug/L | | 04/23/21 09:00 | 04/29/21 20:39 | 1 |
| Molybdenum | 120 | | 2.0 | 1.3 | ug/L | | 04/23/21 09:00 | 04/29/21 20:39 | 1 |
| Selenium | <0.96 | | 5.0 | 0.96 | ug/L | | 04/23/21 09:00 | 04/29/21 20:39 | 1 |
| Thallium | <0.26 | | 1.0 | 0.26 | ug/L | | 04/23/21 09:00 | 04/29/21 20:39 | 1 |

Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.15 | | 0.20 | 0.15 | ug/L | | 04/26/21 14:48 | 04/27/21 14:03 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|------------|-----------|-----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 670 | | 30 | 26 | mg/L | | | 04/23/21 09:11 | 1 |
| pH | 7.3 | HF | 0.1 | 0.1 | SU | | | 04/21/21 17:20 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------------|---------------|-----------|----|-----|------------|---|----------|----------------|---------|
| Ground Water Elevation | 522.13 | | | | ft | | | 04/19/21 15:55 | 1 |
| Oxidation Reduction Potential | -144.8 | | | | millivolts | | | 04/19/21 15:55 | 1 |
| Oxygen, Dissolved, Client Supplied | 0.19 | | | | mg/L | | | 04/19/21 15:55 | 1 |
| pH, Field | 7.25 | | | | SU | | | 04/19/21 15:55 | 1 |
| Specific Conductance, Field | 995 | | | | umhos/cm | | | 04/19/21 15:55 | 1 |
| Temperature, Field | 13.2 | | | | Degrees C | | | 04/19/21 15:55 | 1 |
| Turbidity, Field | 4.35 | | | | NTU | | | 04/19/21 15:55 | 1 |

Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-204849-1

Client Sample ID: MW-304

Lab Sample ID: 310-204849-5

Date Collected: 04/19/21 17:00

Matrix: Water

Date Received: 04/21/21 16:40

Method: 9056A - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------|------------|-----------|------|------|------|---|----------|----------------|---------|
| Chloride | 18 | | 5.0 | 2.2 | mg/L | | | 04/27/21 10:37 | 5 |
| Fluoride | <0.28 | | 0.50 | 0.28 | mg/L | | | 04/27/21 10:37 | 5 |
| Sulfate | 280 | | 5.0 | 2.5 | mg/L | | | 04/27/21 10:37 | 5 |

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------|-------------|-----------|------|-------|------|---|----------------|----------------|---------|
| Antimony | <1.1 | | 2.0 | 1.1 | ug/L | | 04/23/21 09:00 | 04/29/21 20:42 | 1 |
| Arsenic | 41 | | 2.0 | 0.75 | ug/L | | 04/23/21 09:00 | 04/29/21 20:42 | 1 |
| Barium | 180 | | 2.0 | 0.30 | ug/L | | 04/23/21 09:00 | 04/29/21 20:42 | 1 |
| Beryllium | <0.27 | | 1.0 | 0.27 | ug/L | | 04/23/21 09:00 | 04/29/21 20:42 | 1 |
| Boron | 7700 | | 1000 | 580 | ug/L | | 04/23/21 09:00 | 04/30/21 13:47 | 10 |
| Cadmium | <0.051 | | 0.10 | 0.051 | ug/L | | 04/23/21 09:00 | 04/29/21 20:42 | 1 |
| Calcium | 110 | | 0.50 | 0.19 | mg/L | | 04/23/21 09:00 | 04/29/21 20:42 | 1 |
| Chromium | <1.1 | | 5.0 | 1.1 | ug/L | | 04/23/21 09:00 | 04/29/21 20:42 | 1 |
| Cobalt | <0.091 | | 0.50 | 0.091 | ug/L | | 04/23/21 09:00 | 04/29/21 20:42 | 1 |
| Lead | <0.21 | | 0.50 | 0.21 | ug/L | | 04/23/21 09:00 | 04/29/21 20:42 | 1 |
| Lithium | 75 | | 10 | 2.5 | ug/L | | 04/23/21 09:00 | 04/29/21 20:42 | 1 |
| Molybdenum | 100 | | 2.0 | 1.3 | ug/L | | 04/23/21 09:00 | 04/29/21 20:42 | 1 |
| Selenium | <0.96 | | 5.0 | 0.96 | ug/L | | 04/23/21 09:00 | 04/29/21 20:42 | 1 |
| Thallium | <0.26 | | 1.0 | 0.26 | ug/L | | 04/23/21 09:00 | 04/29/21 20:42 | 1 |

Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.15 | | 0.20 | 0.15 | ug/L | | 04/26/21 14:48 | 04/27/21 14:09 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|------------|-----------|-----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 640 | | 30 | 26 | mg/L | | | 04/23/21 09:11 | 1 |
| pH | 8.3 | HF | 0.1 | 0.1 | SU | | | 04/21/21 17:32 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------------|---------------|-----------|----|-----|------------|---|----------|----------------|---------|
| Ground Water Elevation | 522.24 | | | | ft | | | 04/19/21 17:00 | 1 |
| Oxidation Reduction Potential | -257.8 | | | | millivolts | | | 04/19/21 17:00 | 1 |
| Oxygen, Dissolved, Client Supplied | 0.07 | | | | mg/L | | | 04/19/21 17:00 | 1 |
| pH, Field | 8.32 | | | | SU | | | 04/19/21 17:00 | 1 |
| Specific Conductance, Field | 935 | | | | umhos/cm | | | 04/19/21 17:00 | 1 |
| Temperature, Field | 13.2 | | | | Degrees C | | | 04/19/21 17:00 | 1 |
| Turbidity, Field | 3.34 | | | | NTU | | | 04/19/21 17:00 | 1 |

Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-204849-1

Client Sample ID: MW-305

Lab Sample ID: 310-204849-6

Date Collected: 04/20/21 14:00

Matrix: Water

Date Received: 04/21/21 16:40

Method: 9056A - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|------|------|---|----------|----------------|---------|
| Chloride | 28 | | 5.0 | 2.2 | mg/L | | | 04/27/21 10:52 | 5 |
| Fluoride | 0.45 | J | 0.50 | 0.28 | mg/L | | | 04/27/21 10:52 | 5 |
| Sulfate | 28 | | 5.0 | 2.5 | mg/L | | | 04/27/21 10:52 | 5 |

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Antimony | <1.1 | | 2.0 | 1.1 | ug/L | | 04/23/21 09:00 | 04/29/21 20:44 | 1 |
| Arsenic | <0.75 | | 2.0 | 0.75 | ug/L | | 04/23/21 09:00 | 04/29/21 20:44 | 1 |
| Barium | 220 | | 2.0 | 0.30 | ug/L | | 04/23/21 09:00 | 04/29/21 20:44 | 1 |
| Beryllium | <0.27 | | 1.0 | 0.27 | ug/L | | 04/23/21 09:00 | 04/29/21 20:44 | 1 |
| Boron | 2200 | | 100 | 58 | ug/L | | 04/23/21 09:00 | 04/30/21 14:00 | 1 |
| Cadmium | <0.051 | | 0.10 | 0.051 | ug/L | | 04/23/21 09:00 | 04/29/21 20:44 | 1 |
| Calcium | 110 | | 0.50 | 0.19 | mg/L | | 04/23/21 09:00 | 04/29/21 20:44 | 1 |
| Chromium | <1.1 | | 5.0 | 1.1 | ug/L | | 04/23/21 09:00 | 04/29/21 20:44 | 1 |
| Cobalt | 0.14 | J | 0.50 | 0.091 | ug/L | | 04/23/21 09:00 | 04/29/21 20:44 | 1 |
| Lead | <0.21 | | 0.50 | 0.21 | ug/L | | 04/23/21 09:00 | 04/29/21 20:44 | 1 |
| Lithium | 36 | | 10 | 2.5 | ug/L | | 04/23/21 09:00 | 04/29/21 20:44 | 1 |
| Molybdenum | <1.3 | | 2.0 | 1.3 | ug/L | | 04/23/21 09:00 | 04/29/21 20:44 | 1 |
| Selenium | <0.96 | | 5.0 | 0.96 | ug/L | | 04/23/21 09:00 | 04/29/21 20:44 | 1 |
| Thallium | <0.26 | | 1.0 | 0.26 | ug/L | | 04/23/21 09:00 | 04/29/21 20:44 | 1 |

Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.15 | | 0.20 | 0.15 | ug/L | | 04/26/21 14:48 | 04/27/21 14:11 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 420 | | 30 | 26 | mg/L | | | 04/23/21 11:07 | 1 |
| pH | 7.5 | HF | 0.1 | 0.1 | SU | | | 04/21/21 17:34 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|--------|-----------|----|-----|------------|---|----------|----------------|---------|
| Ground Water Elevation | 522.31 | | | | ft | | | 04/20/21 14:00 | 1 |
| Oxidation Reduction Potential | -135.7 | | | | millivolts | | | 04/20/21 14:00 | 1 |
| Oxygen, Dissolved, Client Supplied | 0.11 | | | | mg/L | | | 04/20/21 14:00 | 1 |
| pH, Field | 7.30 | | | | SU | | | 04/20/21 14:00 | 1 |
| Specific Conductance, Field | 839 | | | | umhos/cm | | | 04/20/21 14:00 | 1 |
| Temperature, Field | 14.7 | | | | Degrees C | | | 04/20/21 14:00 | 1 |
| Turbidity, Field | 1.97 | | | | NTU | | | 04/20/21 14:00 | 1 |

Client Sample Results

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-204849-1

Client Sample ID: MW-306

Lab Sample ID: 310-204849-7

Date Collected: 04/19/21 12:20

Matrix: Water

Date Received: 04/21/21 16:40

Method: 9056A - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|------|------|---|----------|----------------|---------|
| Chloride | 17 | | 5.0 | 2.2 | mg/L | | | 04/27/21 11:23 | 5 |
| Fluoride | <0.28 | | 0.50 | 0.28 | mg/L | | | 04/27/21 11:23 | 5 |
| Sulfate | 110 | | 5.0 | 2.5 | mg/L | | | 04/27/21 11:23 | 5 |

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Antimony | 1.4 | J | 2.0 | 1.1 | ug/L | | 04/23/21 09:00 | 04/29/21 20:57 | 1 |
| Arsenic | 53 | | 2.0 | 0.75 | ug/L | | 04/23/21 09:00 | 04/29/21 20:57 | 1 |
| Barium | 19 | | 2.0 | 0.30 | ug/L | | 04/23/21 09:00 | 04/29/21 20:57 | 1 |
| Beryllium | <0.27 | | 1.0 | 0.27 | ug/L | | 04/23/21 09:00 | 04/29/21 20:57 | 1 |
| Boron | 3000 | | 100 | 58 | ug/L | | 04/23/21 09:00 | 04/30/21 14:03 | 1 |
| Cadmium | <0.051 | | 0.10 | 0.051 | ug/L | | 04/23/21 09:00 | 04/29/21 20:57 | 1 |
| Calcium | 41 | | 0.50 | 0.19 | mg/L | | 04/23/21 09:00 | 04/29/21 20:57 | 1 |
| Chromium | <1.1 | | 5.0 | 1.1 | ug/L | | 04/23/21 09:00 | 04/29/21 20:57 | 1 |
| Cobalt | <0.091 | | 0.50 | 0.091 | ug/L | | 04/23/21 09:00 | 04/29/21 20:57 | 1 |
| Lead | <0.21 | | 0.50 | 0.21 | ug/L | | 04/23/21 09:00 | 04/29/21 20:57 | 1 |
| Lithium | 43 | | 10 | 2.5 | ug/L | | 04/23/21 09:00 | 04/29/21 20:57 | 1 |
| Molybdenum | 87 | | 2.0 | 1.3 | ug/L | | 04/23/21 09:00 | 04/29/21 20:57 | 1 |
| Selenium | <0.96 | | 5.0 | 0.96 | ug/L | | 04/23/21 09:00 | 04/29/21 20:57 | 1 |
| Thallium | <0.26 | | 1.0 | 0.26 | ug/L | | 04/23/21 09:00 | 04/29/21 20:57 | 1 |

Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.15 | | 0.20 | 0.15 | ug/L | | 04/26/21 14:48 | 04/27/21 14:14 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 260 | | 30 | 26 | mg/L | | | 04/23/21 09:11 | 1 |
| pH | 10.3 | HF | 0.1 | 0.1 | SU | | | 04/21/21 17:36 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|--------|-----------|----|-----|------------|---|----------|----------------|---------|
| Ground Water Elevation | 522.52 | | | | ft | | | 04/19/21 12:20 | 1 |
| Oxidation Reduction Potential | -188.0 | | | | millivolts | | | 04/19/21 12:20 | 1 |
| Oxygen, Dissolved, Client Supplied | 0.34 | | | | mg/L | | | 04/19/21 12:20 | 1 |
| pH, Field | 10.02 | | | | SU | | | 04/19/21 12:20 | 1 |
| Specific Conductance, Field | 442 | | | | umhos/cm | | | 04/19/21 12:20 | 1 |
| Temperature, Field | 13.8 | | | | Degrees C | | | 04/19/21 12:20 | 1 |
| Turbidity, Field | 0.02 | | | | NTU | | | 04/19/21 12:20 | 1 |

Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-204849-1

Client Sample ID: MW-307

Lab Sample ID: 310-204849-8

Date Collected: 04/20/21 10:30

Matrix: Water

Date Received: 04/21/21 16:40

Method: 9056A - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------|------------|-----------|------|------|------|---|----------|----------------|---------|
| Chloride | 17 | | 5.0 | 2.2 | mg/L | | | 04/27/21 11:39 | 5 |
| Fluoride | <0.28 | | 0.50 | 0.28 | mg/L | | | 04/27/21 11:39 | 5 |
| Sulfate | 140 | | 5.0 | 2.5 | mg/L | | | 04/27/21 11:39 | 5 |

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------|-------------|-----------|------|-------|------|---|----------------|----------------|---------|
| Antimony | <1.1 | | 2.0 | 1.1 | ug/L | | 04/23/21 09:00 | 04/29/21 21:00 | 1 |
| Arsenic | 52 | | 2.0 | 0.75 | ug/L | | 04/23/21 09:00 | 04/29/21 21:00 | 1 |
| Barium | 39 | | 2.0 | 0.30 | ug/L | | 04/23/21 09:00 | 04/29/21 21:00 | 1 |
| Beryllium | <0.27 | | 1.0 | 0.27 | ug/L | | 04/23/21 09:00 | 04/29/21 21:00 | 1 |
| Boron | 3400 | | 100 | 58 | ug/L | | 04/23/21 09:00 | 04/30/21 14:05 | 1 |
| Cadmium | <0.051 | | 0.10 | 0.051 | ug/L | | 04/23/21 09:00 | 04/29/21 21:00 | 1 |
| Calcium | 39 | | 0.50 | 0.19 | mg/L | | 04/23/21 09:00 | 04/29/21 21:00 | 1 |
| Chromium | <1.1 | | 5.0 | 1.1 | ug/L | | 04/23/21 09:00 | 04/29/21 21:00 | 1 |
| Cobalt | <0.091 | | 0.50 | 0.091 | ug/L | | 04/23/21 09:00 | 04/29/21 21:00 | 1 |
| Lead | <0.21 | | 0.50 | 0.21 | ug/L | | 04/23/21 09:00 | 04/29/21 21:00 | 1 |
| Lithium | 53 | | 10 | 2.5 | ug/L | | 04/23/21 09:00 | 04/29/21 21:00 | 1 |
| Molybdenum | 140 | | 2.0 | 1.3 | ug/L | | 04/23/21 09:00 | 04/29/21 21:00 | 1 |
| Selenium | <0.96 | | 5.0 | 0.96 | ug/L | | 04/23/21 09:00 | 04/29/21 21:00 | 1 |
| Thallium | <0.26 | | 1.0 | 0.26 | ug/L | | 04/23/21 09:00 | 04/29/21 21:00 | 1 |

Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.15 | | 0.20 | 0.15 | ug/L | | 04/26/21 14:48 | 04/27/21 14:16 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|-------------|-----------|-----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 330 | | 30 | 26 | mg/L | | | 04/23/21 11:07 | 1 |
| pH | 10.4 | HF | 0.1 | 0.1 | SU | | | 04/21/21 17:37 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------------|---------------|-----------|----|-----|------------|---|----------|----------------|---------|
| Ground Water Elevation | 522.89 | | | | ft | | | 04/20/21 10:30 | 1 |
| Oxidation Reduction Potential | -242.4 | | | | millivolts | | | 04/20/21 10:30 | 1 |
| Oxygen, Dissolved, Client Supplied | 0.08 | | | | mg/L | | | 04/20/21 10:30 | 1 |
| pH, Field | 10.02 | | | | SU | | | 04/20/21 10:30 | 1 |
| Specific Conductance, Field | 546 | | | | umhos/cm | | | 04/20/21 10:30 | 1 |
| Temperature, Field | 13.9 | | | | Degrees C | | | 04/20/21 10:30 | 1 |
| Turbidity, Field | 2.38 | | | | NTU | | | 04/20/21 10:30 | 1 |

Client Sample Results

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-204849-1

Client Sample ID: MW-307A

Lab Sample ID: 310-204849-9

Date Collected: 04/20/21 09:35

Matrix: Water

Date Received: 04/21/21 16:40

Method: 9056A - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|------|------|---|----------|----------------|---------|
| Chloride | 28 | | 5.0 | 2.2 | mg/L | | | 04/27/21 11:55 | 5 |
| Fluoride | 0.38 | J | 0.50 | 0.28 | mg/L | | | 04/27/21 11:55 | 5 |
| Sulfate | 110 | | 5.0 | 2.5 | mg/L | | | 04/27/21 11:55 | 5 |

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Antimony | <1.1 | | 2.0 | 1.1 | ug/L | | 04/23/21 09:00 | 04/29/21 21:03 | 1 |
| Arsenic | <0.75 | | 2.0 | 0.75 | ug/L | | 04/23/21 09:00 | 04/29/21 21:03 | 1 |
| Barium | 48 | | 2.0 | 0.30 | ug/L | | 04/23/21 09:00 | 04/29/21 21:03 | 1 |
| Beryllium | <0.27 | | 1.0 | 0.27 | ug/L | | 04/23/21 09:00 | 04/29/21 21:03 | 1 |
| Boron | 4100 | | 400 | 230 | ug/L | | 04/23/21 09:00 | 04/30/21 14:08 | 4 |
| Cadmium | <0.051 | | 0.10 | 0.051 | ug/L | | 04/23/21 09:00 | 04/29/21 21:03 | 1 |
| Calcium | 11 | | 0.50 | 0.19 | mg/L | | 04/23/21 09:00 | 04/29/21 21:03 | 1 |
| Chromium | <1.1 | | 5.0 | 1.1 | ug/L | | 04/23/21 09:00 | 04/29/21 21:03 | 1 |
| Cobalt | <0.091 | | 0.50 | 0.091 | ug/L | | 04/23/21 09:00 | 04/29/21 21:03 | 1 |
| Lead | 0.59 | | 0.50 | 0.21 | ug/L | | 04/23/21 09:00 | 04/29/21 21:03 | 1 |
| Lithium | 8.7 | J | 10 | 2.5 | ug/L | | 04/23/21 09:00 | 04/29/21 21:03 | 1 |
| Molybdenum | 120 | | 2.0 | 1.3 | ug/L | | 04/23/21 09:00 | 04/29/21 21:03 | 1 |
| Selenium | <0.96 | | 5.0 | 0.96 | ug/L | | 04/23/21 09:00 | 04/29/21 21:03 | 1 |
| Thallium | <0.26 | | 1.0 | 0.26 | ug/L | | 04/23/21 09:00 | 04/29/21 21:03 | 1 |

Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.15 | | 0.20 | 0.15 | ug/L | | 04/26/21 14:48 | 04/27/21 14:18 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 330 | | 30 | 26 | mg/L | | | 04/23/21 11:07 | 1 |
| pH | 8.1 | HF | 0.1 | 0.1 | SU | | | 04/21/21 17:38 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|--------|-----------|----|-----|------------|---|----------|----------------|---------|
| Ground Water Elevation | 522.39 | | | | ft | | | 04/20/21 09:35 | 1 |
| Oxidation Reduction Potential | -167.3 | | | | millivolts | | | 04/20/21 09:35 | 1 |
| Oxygen, Dissolved, Client Supplied | 0.13 | | | | mg/L | | | 04/20/21 09:35 | 1 |
| pH, Field | 7.74 | | | | SU | | | 04/20/21 09:35 | 1 |
| Specific Conductance, Field | 566 | | | | umhos/cm | | | 04/20/21 09:35 | 1 |
| Temperature, Field | 13.7 | | | | Degrees C | | | 04/20/21 09:35 | 1 |
| Turbidity, Field | 2.89 | | | | NTU | | | 04/20/21 09:35 | 1 |

Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-204849-1

Client Sample ID: MW-308

Lab Sample ID: 310-204849-10

Date Collected: 04/20/21 07:45

Matrix: Water

Date Received: 04/21/21 16:40

Method: 9056A - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------|------------|-----------|------|------|------|---|----------|----------------|---------|
| Chloride | 39 | | 5.0 | 2.2 | mg/L | | | 04/27/21 12:10 | 5 |
| Fluoride | <0.28 | | 0.50 | 0.28 | mg/L | | | 04/27/21 12:10 | 5 |
| Sulfate | 140 | | 5.0 | 2.5 | mg/L | | | 04/27/21 12:10 | 5 |

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------|-------------|-----------|------|-------|------|---|----------------|----------------|---------|
| Antimony | <1.1 | | 2.0 | 1.1 | ug/L | | 04/23/21 09:00 | 04/29/21 21:05 | 1 |
| Arsenic | 73 | | 2.0 | 0.75 | ug/L | | 04/23/21 09:00 | 04/29/21 21:05 | 1 |
| Barium | 79 | | 2.0 | 0.30 | ug/L | | 04/23/21 09:00 | 04/29/21 21:05 | 1 |
| Beryllium | <0.27 | | 1.0 | 0.27 | ug/L | | 04/23/21 09:00 | 04/29/21 21:05 | 1 |
| Boron | 4300 | | 400 | 230 | ug/L | | 04/23/21 09:00 | 04/30/21 14:11 | 4 |
| Cadmium | <0.051 | | 0.10 | 0.051 | ug/L | | 04/23/21 09:00 | 04/29/21 21:05 | 1 |
| Calcium | 38 | | 0.50 | 0.19 | mg/L | | 04/23/21 09:00 | 04/29/21 21:05 | 1 |
| Chromium | <1.1 | | 5.0 | 1.1 | ug/L | | 04/23/21 09:00 | 04/29/21 21:05 | 1 |
| Cobalt | <0.091 | | 0.50 | 0.091 | ug/L | | 04/23/21 09:00 | 04/29/21 21:05 | 1 |
| Lead | <0.21 | | 0.50 | 0.21 | ug/L | | 04/23/21 09:00 | 04/29/21 21:05 | 1 |
| Lithium | 54 | | 10 | 2.5 | ug/L | | 04/23/21 09:00 | 04/29/21 21:05 | 1 |
| Molybdenum | 120 | | 2.0 | 1.3 | ug/L | | 04/23/21 09:00 | 04/29/21 21:05 | 1 |
| Selenium | <0.96 | | 5.0 | 0.96 | ug/L | | 04/23/21 09:00 | 04/29/21 21:05 | 1 |
| Thallium | <0.26 | | 1.0 | 0.26 | ug/L | | 04/23/21 09:00 | 04/29/21 21:05 | 1 |

Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.15 | | 0.20 | 0.15 | ug/L | | 04/26/21 14:48 | 04/27/21 14:20 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|------------|-----------|-----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 430 | | 30 | 26 | mg/L | | | 04/23/21 11:07 | 1 |
| pH | 9.8 | HF | 0.1 | 0.1 | SU | | | 04/21/21 17:35 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------------|---------------|-----------|----|-----|------------|---|----------|----------------|---------|
| Ground Water Elevation | 522.57 | | | | ft | | | 04/20/21 07:45 | 1 |
| Oxidation Reduction Potential | -172.9 | | | | millivolts | | | 04/20/21 07:45 | 1 |
| Oxygen, Dissolved, Client Supplied | 0.08 | | | | mg/L | | | 04/20/21 07:45 | 1 |
| pH, Field | 9.56 | | | | SU | | | 04/20/21 07:45 | 1 |
| Specific Conductance, Field | 690 | | | | umhos/cm | | | 04/20/21 07:45 | 1 |
| Temperature, Field | 14.1 | | | | Degrees C | | | 04/20/21 07:45 | 1 |
| Turbidity, Field | 1.77 | | | | NTU | | | 04/20/21 07:45 | 1 |

Client Sample Results

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-204849-1

Client Sample ID: MW-309

Lab Sample ID: 310-204849-11

Date Collected: 04/19/21 10:20

Matrix: Water

Date Received: 04/21/21 16:40

Method: 9056A - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|------|------|---|----------|----------------|---------|
| Chloride | 85 | | 5.0 | 2.2 | mg/L | | | 04/27/21 12:26 | 5 |
| Fluoride | 0.36 | J | 0.50 | 0.28 | mg/L | | | 04/27/21 12:26 | 5 |
| Sulfate | 57 | | 5.0 | 2.5 | mg/L | | | 04/27/21 12:26 | 5 |

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Antimony | <1.1 | | 2.0 | 1.1 | ug/L | | 04/23/21 09:00 | 04/29/21 21:08 | 1 |
| Arsenic | 30 | | 2.0 | 0.75 | ug/L | | 04/23/21 09:00 | 04/29/21 21:08 | 1 |
| Barium | 340 | | 2.0 | 0.30 | ug/L | | 04/23/21 09:00 | 04/29/21 21:08 | 1 |
| Beryllium | <0.27 | | 1.0 | 0.27 | ug/L | | 04/23/21 09:00 | 04/29/21 21:08 | 1 |
| Boron | 5000 | | 400 | 230 | ug/L | | 04/23/21 09:00 | 04/30/21 14:13 | 4 |
| Cadmium | <0.051 | | 0.10 | 0.051 | ug/L | | 04/23/21 09:00 | 04/29/21 21:08 | 1 |
| Calcium | 76 | | 0.50 | 0.19 | mg/L | | 04/23/21 09:00 | 04/29/21 21:08 | 1 |
| Chromium | <1.1 | | 5.0 | 1.1 | ug/L | | 04/23/21 09:00 | 04/29/21 21:08 | 1 |
| Cobalt | 0.39 | J | 0.50 | 0.091 | ug/L | | 04/23/21 09:00 | 04/29/21 21:08 | 1 |
| Lead | <0.21 | | 0.50 | 0.21 | ug/L | | 04/23/21 09:00 | 04/29/21 21:08 | 1 |
| Lithium | 3.8 | J | 10 | 2.5 | ug/L | | 04/23/21 09:00 | 04/29/21 21:08 | 1 |
| Molybdenum | 50 | | 2.0 | 1.3 | ug/L | | 04/23/21 09:00 | 04/29/21 21:08 | 1 |
| Selenium | <0.96 | | 5.0 | 0.96 | ug/L | | 04/23/21 09:00 | 04/29/21 21:08 | 1 |
| Thallium | <0.26 | | 1.0 | 0.26 | ug/L | | 04/23/21 09:00 | 04/29/21 21:08 | 1 |

Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.15 | | 0.20 | 0.15 | ug/L | | 04/26/21 14:48 | 04/27/21 14:22 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 570 | | 30 | 26 | mg/L | | | 04/23/21 09:11 | 1 |
| pH | 7.3 | HF | 0.1 | 0.1 | SU | | | 04/21/21 17:15 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|--------|-----------|----|-----|------------|---|----------|----------------|---------|
| Ground Water Elevation | 522.72 | | | | ft | | | 04/19/21 10:20 | 1 |
| Oxidation Reduction Potential | -170.7 | | | | millivolts | | | 04/19/21 10:20 | 1 |
| Oxygen, Dissolved, Client Supplied | 0.16 | | | | mg/L | | | 04/19/21 10:20 | 1 |
| pH, Field | 7.26 | | | | SU | | | 04/19/21 10:20 | 1 |
| Specific Conductance, Field | 1017 | | | | umhos/cm | | | 04/19/21 10:20 | 1 |
| Temperature, Field | 13.2 | | | | Degrees C | | | 04/19/21 10:20 | 1 |
| Turbidity, Field | 21.2 | | | | NTU | | | 04/19/21 10:20 | 1 |

Client Sample Results

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-204849-1

Client Sample ID: MW-310

Lab Sample ID: 310-204849-12

Date Collected: 04/19/21 07:30

Matrix: Water

Date Received: 04/21/21 16:40

Method: 9056A - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|------|------|---|----------|----------------|---------|
| Chloride | 16 | | 5.0 | 2.2 | mg/L | | | 04/27/21 12:42 | 5 |
| Fluoride | 0.37 | J | 0.50 | 0.28 | mg/L | | | 04/27/21 12:42 | 5 |
| Sulfate | 55 | | 5.0 | 2.5 | mg/L | | | 04/27/21 12:42 | 5 |

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Antimony | <1.1 | | 2.0 | 1.1 | ug/L | | 04/23/21 09:00 | 04/29/21 21:13 | 1 |
| Arsenic | 16 | | 2.0 | 0.75 | ug/L | | 04/23/21 09:00 | 04/29/21 21:13 | 1 |
| Barium | 280 | | 2.0 | 0.30 | ug/L | | 04/23/21 09:00 | 04/29/21 21:13 | 1 |
| Beryllium | <0.27 | | 1.0 | 0.27 | ug/L | | 04/23/21 09:00 | 04/29/21 21:13 | 1 |
| Boron | 220 | | 100 | 58 | ug/L | | 04/23/21 09:00 | 04/30/21 14:18 | 1 |
| Cadmium | <0.051 | | 0.10 | 0.051 | ug/L | | 04/23/21 09:00 | 04/29/21 21:13 | 1 |
| Calcium | 190 | | 0.50 | 0.19 | mg/L | | 04/23/21 09:00 | 04/29/21 21:13 | 1 |
| Chromium | <1.1 | | 5.0 | 1.1 | ug/L | | 04/23/21 09:00 | 04/29/21 21:13 | 1 |
| Cobalt | 0.29 | J | 0.50 | 0.091 | ug/L | | 04/23/21 09:00 | 04/29/21 21:13 | 1 |
| Lead | <0.21 | | 0.50 | 0.21 | ug/L | | 04/23/21 09:00 | 04/29/21 21:13 | 1 |
| Lithium | <2.5 | | 10 | 2.5 | ug/L | | 04/23/21 09:00 | 04/29/21 21:13 | 1 |
| Molybdenum | 14 | | 2.0 | 1.3 | ug/L | | 04/23/21 09:00 | 04/29/21 21:13 | 1 |
| Selenium | <0.96 | | 5.0 | 0.96 | ug/L | | 04/23/21 09:00 | 04/29/21 21:13 | 1 |
| Thallium | <0.26 | | 1.0 | 0.26 | ug/L | | 04/23/21 09:00 | 04/29/21 21:13 | 1 |

Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.15 | | 0.20 | 0.15 | ug/L | | 04/26/21 14:48 | 04/27/21 14:36 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 370 | | 30 | 26 | mg/L | | | 04/23/21 09:11 | 1 |
| pH | 7.3 | HF | 0.1 | 0.1 | SU | | | 04/21/21 17:16 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|--------|-----------|----|-----|------------|---|----------|----------------|---------|
| Ground Water Elevation | 525.46 | | | | ft | | | 04/19/21 07:30 | 1 |
| Oxidation Reduction Potential | -193.2 | | | | millivolts | | | 04/19/21 07:30 | 1 |
| Oxygen, Dissolved, Client Supplied | 0.17 | | | | mg/L | | | 04/19/21 07:30 | 1 |
| pH, Field | 7.21 | | | | SU | | | 04/19/21 07:30 | 1 |
| Specific Conductance, Field | 735 | | | | umhos/cm | | | 04/19/21 07:30 | 1 |
| Temperature, Field | 10.8 | | | | Degrees C | | | 04/19/21 07:30 | 1 |
| Turbidity, Field | 2.57 | | | | NTU | | | 04/19/21 07:30 | 1 |

Client Sample Results

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-204849-1

Client Sample ID: MW-311

Lab Sample ID: 310-204849-14

Date Collected: 04/19/21 08:50

Matrix: Water

Date Received: 04/21/21 16:40

Method: 9056A - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------|------------|-----------|------|------|------|---|----------|----------------|---------|
| Chloride | 100 | | 5.0 | 2.2 | mg/L | | | 04/27/21 12:57 | 5 |
| Fluoride | <0.28 | | 0.50 | 0.28 | mg/L | | | 04/27/21 12:57 | 5 |
| Sulfate | 200 | | 5.0 | 2.5 | mg/L | | | 04/27/21 12:57 | 5 |

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------|-------------|-----------|------|-------|------|---|----------------|----------------|---------|
| Antimony | <1.1 | | 2.0 | 1.1 | ug/L | | 04/23/21 09:00 | 04/29/21 21:16 | 1 |
| Arsenic | 55 | | 2.0 | 0.75 | ug/L | | 04/23/21 09:00 | 04/29/21 21:16 | 1 |
| Barium | 370 | | 2.0 | 0.30 | ug/L | | 04/23/21 09:00 | 04/29/21 21:16 | 1 |
| Beryllium | <0.27 | | 1.0 | 0.27 | ug/L | | 04/23/21 09:00 | 04/29/21 21:16 | 1 |
| Boron | 2000 | | 100 | 58 | ug/L | | 04/23/21 09:00 | 04/30/21 14:21 | 1 |
| Cadmium | <0.051 | | 0.10 | 0.051 | ug/L | | 04/23/21 09:00 | 04/29/21 21:16 | 1 |
| Calcium | 98 | | 0.50 | 0.19 | mg/L | | 04/23/21 09:00 | 04/29/21 21:16 | 1 |
| Chromium | <1.1 | | 5.0 | 1.1 | ug/L | | 04/23/21 09:00 | 04/29/21 21:16 | 1 |
| Cobalt | 1.4 | | 0.50 | 0.091 | ug/L | | 04/23/21 09:00 | 04/29/21 21:16 | 1 |
| Lead | <0.21 | | 0.50 | 0.21 | ug/L | | 04/23/21 09:00 | 04/29/21 21:16 | 1 |
| Lithium | <2.5 | | 10 | 2.5 | ug/L | | 04/23/21 09:00 | 04/29/21 21:16 | 1 |
| Molybdenum | 4.1 | | 2.0 | 1.3 | ug/L | | 04/23/21 09:00 | 04/29/21 21:16 | 1 |
| Selenium | <0.96 | | 5.0 | 0.96 | ug/L | | 04/23/21 09:00 | 04/29/21 21:16 | 1 |
| Thallium | <0.26 | | 1.0 | 0.26 | ug/L | | 04/23/21 09:00 | 04/29/21 21:16 | 1 |

Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.15 | | 0.20 | 0.15 | ug/L | | 04/26/21 14:48 | 04/27/21 14:38 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|------------|-----------|-----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 870 | | 30 | 26 | mg/L | | | 04/23/21 09:11 | 1 |
| pH | 7.2 | HF | 0.1 | 0.1 | SU | | | 04/21/21 17:30 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------------|---------------|-----------|----|-----|------------|---|----------|----------------|---------|
| Ground Water Elevation | 523.89 | | | | ft | | | 04/19/21 08:50 | 1 |
| Oxidation Reduction Potential | -158.6 | | | | millivolts | | | 04/19/21 08:50 | 1 |
| Oxygen, Dissolved, Client Supplied | 0.48 | | | | mg/L | | | 04/19/21 08:50 | 1 |
| pH, Field | 7.16 | | | | SU | | | 04/19/21 08:50 | 1 |
| Specific Conductance, Field | 1473 | | | | umhos/cm | | | 04/19/21 08:50 | 1 |
| Temperature, Field | 10.9 | | | | Degrees C | | | 04/19/21 08:50 | 1 |
| Turbidity, Field | 4.56 | | | | NTU | | | 04/19/21 08:50 | 1 |

Client Sample Results

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-204849-1

Client Sample ID: MW-312

Lab Sample ID: 310-204849-15

Date Collected: 04/19/21 20:15

Matrix: Water

Date Received: 04/21/21 16:40

Method: 9056A - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|------|------|---|----------|----------------|---------|
| Chloride | 20 | | 5.0 | 2.2 | mg/L | | | 04/27/21 13:44 | 5 |
| Fluoride | 0.33 | J | 0.50 | 0.28 | mg/L | | | 04/27/21 13:44 | 5 |
| Sulfate | 190 | | 5.0 | 2.5 | mg/L | | | 04/27/21 13:44 | 5 |

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Antimony | <1.1 | | 2.0 | 1.1 | ug/L | | 04/23/21 09:00 | 04/29/21 21:18 | 1 |
| Arsenic | 18 | | 2.0 | 0.75 | ug/L | | 04/23/21 09:00 | 04/29/21 21:18 | 1 |
| Barium | 200 | | 2.0 | 0.30 | ug/L | | 04/23/21 09:00 | 04/29/21 21:18 | 1 |
| Beryllium | <0.27 | | 1.0 | 0.27 | ug/L | | 04/23/21 09:00 | 04/29/21 21:18 | 1 |
| Boron | 5800 | | 400 | 230 | ug/L | | 04/23/21 09:00 | 04/30/21 14:24 | 4 |
| Cadmium | 0.053 | J | 0.10 | 0.051 | ug/L | | 04/23/21 09:00 | 04/29/21 21:18 | 1 |
| Calcium | 84 | | 0.50 | 0.19 | mg/L | | 04/23/21 09:00 | 04/29/21 21:18 | 1 |
| Chromium | <1.1 | | 5.0 | 1.1 | ug/L | | 04/23/21 09:00 | 04/29/21 21:18 | 1 |
| Cobalt | 0.54 | | 0.50 | 0.091 | ug/L | | 04/23/21 09:00 | 04/29/21 21:18 | 1 |
| Lead | <0.21 | | 0.50 | 0.21 | ug/L | | 04/23/21 09:00 | 04/29/21 21:18 | 1 |
| Lithium | 30 | | 10 | 2.5 | ug/L | | 04/23/21 09:00 | 04/29/21 21:18 | 1 |
| Molybdenum | 310 | | 2.0 | 1.3 | ug/L | | 04/23/21 09:00 | 04/29/21 21:18 | 1 |
| Selenium | <0.96 | | 5.0 | 0.96 | ug/L | | 04/23/21 09:00 | 04/29/21 21:18 | 1 |
| Thallium | <0.26 | | 1.0 | 0.26 | ug/L | | 04/23/21 09:00 | 04/29/21 21:18 | 1 |

Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.15 | | 0.20 | 0.15 | ug/L | | 04/26/21 14:48 | 04/27/21 14:40 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 540 | | 30 | 26 | mg/L | | | 04/23/21 09:11 | 1 |
| pH | 7.4 | HF | 0.1 | 0.1 | SU | | | 04/21/21 17:24 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|--------|-----------|----|-----|------------|---|----------|----------------|---------|
| Ground Water Elevation | 522.20 | | | | ft | | | 04/19/21 20:15 | 1 |
| Oxidation Reduction Potential | -162.9 | | | | millivolts | | | 04/19/21 20:15 | 1 |
| Oxygen, Dissolved, Client Supplied | 0.12 | | | | mg/L | | | 04/19/21 20:15 | 1 |
| pH, Field | 7.22 | | | | SU | | | 04/19/21 20:15 | 1 |
| Specific Conductance, Field | 875 | | | | umhos/cm | | | 04/19/21 20:15 | 1 |
| Temperature, Field | 13.7 | | | | Degrees C | | | 04/19/21 20:15 | 1 |
| Turbidity, Field | 8.82 | | | | NTU | | | 04/19/21 20:15 | 1 |

Client Sample Results

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-204849-1

Client Sample ID: MW-313

Lab Sample ID: 310-204849-16

Date Collected: 04/19/21 18:20

Matrix: Water

Date Received: 04/21/21 16:40

Method: 9056A - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------|------------|-----------|------|------|------|---|----------|----------------|---------|
| Chloride | 72 | | 5.0 | 2.2 | mg/L | | | 04/27/21 14:00 | 5 |
| Fluoride | <0.28 | | 0.50 | 0.28 | mg/L | | | 04/27/21 14:00 | 5 |
| Sulfate | 120 | | 5.0 | 2.5 | mg/L | | | 04/27/21 14:00 | 5 |

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------|-------------|-----------|------|-------|------|---|----------------|----------------|---------|
| Antimony | <1.1 | | 2.0 | 1.1 | ug/L | | 04/23/21 09:00 | 04/29/21 21:21 | 1 |
| Arsenic | 5.2 | | 2.0 | 0.75 | ug/L | | 04/23/21 09:00 | 04/29/21 21:21 | 1 |
| Barium | 630 | | 2.0 | 0.30 | ug/L | | 04/23/21 09:00 | 04/29/21 21:21 | 1 |
| Beryllium | <0.27 | | 1.0 | 0.27 | ug/L | | 04/23/21 09:00 | 04/29/21 21:21 | 1 |
| Boron | 6900 | | 700 | 410 | ug/L | | 04/23/21 09:00 | 04/30/21 14:37 | 7 |
| Cadmium | <0.051 | | 0.10 | 0.051 | ug/L | | 04/23/21 09:00 | 04/29/21 21:21 | 1 |
| Calcium | 120 | | 0.50 | 0.19 | mg/L | | 04/23/21 09:00 | 04/29/21 21:21 | 1 |
| Chromium | <1.1 | | 5.0 | 1.1 | ug/L | | 04/23/21 09:00 | 04/29/21 21:21 | 1 |
| Cobalt | 0.20 | J | 0.50 | 0.091 | ug/L | | 04/23/21 09:00 | 04/29/21 21:21 | 1 |
| Lead | <0.21 | | 0.50 | 0.21 | ug/L | | 04/23/21 09:00 | 04/29/21 21:21 | 1 |
| Lithium | 36 | | 10 | 2.5 | ug/L | | 04/23/21 09:00 | 04/29/21 21:21 | 1 |
| Molybdenum | 140 | | 2.0 | 1.3 | ug/L | | 04/23/21 09:00 | 04/29/21 21:21 | 1 |
| Selenium | <0.96 | | 5.0 | 0.96 | ug/L | | 04/23/21 09:00 | 04/29/21 21:21 | 1 |
| Thallium | <0.26 | | 1.0 | 0.26 | ug/L | | 04/23/21 09:00 | 04/29/21 21:21 | 1 |

Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.15 | | 0.20 | 0.15 | ug/L | | 04/26/21 14:48 | 04/27/21 14:42 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|------------|-----------|-----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 680 | | 30 | 26 | mg/L | | | 04/23/21 09:11 | 1 |
| pH | 7.3 | HF | 0.1 | 0.1 | SU | | | 04/21/21 17:33 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------------|---------------|-----------|----|-----|------------|---|----------|----------------|---------|
| Ground Water Elevation | 522.23 | | | | ft | | | 04/19/21 18:20 | 1 |
| Oxidation Reduction Potential | -152.8 | | | | millivolts | | | 04/19/21 18:20 | 1 |
| Oxygen, Dissolved, Client Supplied | 0.21 | | | | mg/L | | | 04/19/21 18:20 | 1 |
| pH, Field | 7.09 | | | | SU | | | 04/19/21 18:20 | 1 |
| Specific Conductance, Field | 1165 | | | | umhos/cm | | | 04/19/21 18:20 | 1 |
| Temperature, Field | 14.5 | | | | Degrees C | | | 04/19/21 18:20 | 1 |
| Turbidity, Field | 4.54 | | | | NTU | | | 04/19/21 18:20 | 1 |

Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-204849-1

Client Sample ID: MW-313A

Lab Sample ID: 310-204849-17

Date Collected: 04/19/21 18:55

Matrix: Water

Date Received: 04/21/21 16:40

Method: 9056A - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|------|------|---|----------|----------------|---------|
| Chloride | 140 | | 5.0 | 2.2 | mg/L | | | 04/27/21 14:15 | 5 |
| Fluoride | 0.46 | J | 0.50 | 0.28 | mg/L | | | 04/27/21 14:15 | 5 |
| Sulfate | 150 | | 5.0 | 2.5 | mg/L | | | 04/27/21 14:15 | 5 |

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Antimony | <1.1 | | 2.0 | 1.1 | ug/L | | 04/23/21 09:00 | 04/29/21 21:34 | 1 |
| Arsenic | <0.75 | | 2.0 | 0.75 | ug/L | | 04/23/21 09:00 | 04/29/21 21:34 | 1 |
| Barium | 240 | | 2.0 | 0.30 | ug/L | | 04/23/21 09:00 | 04/29/21 21:34 | 1 |
| Beryllium | <0.27 | | 1.0 | 0.27 | ug/L | | 04/23/21 09:00 | 04/29/21 21:34 | 1 |
| Boron | 4100 | | 100 | 58 | ug/L | | 04/23/21 09:00 | 04/29/21 21:34 | 1 |
| Cadmium | <0.051 | | 0.10 | 0.051 | ug/L | | 04/23/21 09:00 | 04/29/21 21:34 | 1 |
| Calcium | 42 | | 0.50 | 0.19 | mg/L | | 04/23/21 09:00 | 04/29/21 21:34 | 1 |
| Chromium | <1.1 | | 5.0 | 1.1 | ug/L | | 04/23/21 09:00 | 04/29/21 21:34 | 1 |
| Cobalt | <0.091 | | 0.50 | 0.091 | ug/L | | 04/23/21 09:00 | 04/29/21 21:34 | 1 |
| Lead | <0.21 | | 0.50 | 0.21 | ug/L | | 04/23/21 09:00 | 04/29/21 21:34 | 1 |
| Lithium | 14 | | 10 | 2.5 | ug/L | | 04/23/21 09:00 | 04/29/21 21:34 | 1 |
| Molybdenum | 100 | | 2.0 | 1.3 | ug/L | | 04/23/21 09:00 | 04/29/21 21:34 | 1 |
| Selenium | <0.96 | | 5.0 | 0.96 | ug/L | | 04/23/21 09:00 | 04/29/21 21:34 | 1 |
| Thallium | <0.26 | | 1.0 | 0.26 | ug/L | | 04/23/21 09:00 | 04/29/21 21:34 | 1 |

Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.15 | | 0.20 | 0.15 | ug/L | | 04/26/21 14:48 | 04/27/21 14:44 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 580 | | 30 | 26 | mg/L | | | 04/23/21 09:11 | 1 |
| pH | 7.7 | HF | 0.1 | 0.1 | SU | | | 04/21/21 17:26 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|--------|-----------|----|-----|------------|---|----------|----------------|---------|
| Ground Water Elevation | 522.11 | | | | ft | | | 04/19/21 18:55 | 1 |
| Oxidation Reduction Potential | -172.1 | | | | millivolts | | | 04/19/21 18:55 | 1 |
| Oxygen, Dissolved, Client Supplied | 0.09 | | | | mg/L | | | 04/19/21 18:55 | 1 |
| pH, Field | 7.58 | | | | SU | | | 04/19/21 18:55 | 1 |
| Specific Conductance, Field | 1023 | | | | umhos/cm | | | 04/19/21 18:55 | 1 |
| Temperature, Field | 14.2 | | | | Degrees C | | | 04/19/21 18:55 | 1 |
| Turbidity, Field | 1.71 | | | | NTU | | | 04/19/21 18:55 | 1 |

Client Sample Results

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-204849-1

Client Sample ID: Field Blank

Lab Sample ID: 310-204849-18

Date Collected: 04/20/21 15:00

Matrix: Water

Date Received: 04/21/21 16:40

Method: 9056A - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|------|------|---|----------|----------------|---------|
| Chloride | <2.2 | | 5.0 | 2.2 | mg/L | | | 04/27/21 14:31 | 5 |
| Fluoride | <0.28 | | 0.50 | 0.28 | mg/L | | | 04/27/21 14:31 | 5 |
| Sulfate | <2.5 | | 5.0 | 2.5 | mg/L | | | 04/27/21 14:31 | 5 |

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------|-------------|-----------|------|-------|------|---|----------------|----------------|---------|
| Antimony | <1.1 | | 2.0 | 1.1 | ug/L | | 04/23/21 09:00 | 04/29/21 21:36 | 1 |
| Arsenic | <0.75 | | 2.0 | 0.75 | ug/L | | 04/23/21 09:00 | 04/29/21 21:36 | 1 |
| Barium | 0.30 | J | 2.0 | 0.30 | ug/L | | 04/23/21 09:00 | 04/29/21 21:36 | 1 |
| Beryllium | <0.27 | | 1.0 | 0.27 | ug/L | | 04/23/21 09:00 | 04/29/21 21:36 | 1 |
| Boron | 130 | | 100 | 58 | ug/L | | 04/23/21 09:00 | 04/29/21 21:36 | 1 |
| Cadmium | <0.051 | | 0.10 | 0.051 | ug/L | | 04/23/21 09:00 | 04/29/21 21:36 | 1 |
| Calcium | <0.19 | | 0.50 | 0.19 | mg/L | | 04/23/21 09:00 | 04/29/21 21:36 | 1 |
| Chromium | <1.1 | | 5.0 | 1.1 | ug/L | | 04/23/21 09:00 | 04/29/21 21:36 | 1 |
| Cobalt | <0.091 | | 0.50 | 0.091 | ug/L | | 04/23/21 09:00 | 04/29/21 21:36 | 1 |
| Lead | <0.21 | | 0.50 | 0.21 | ug/L | | 04/23/21 09:00 | 04/29/21 21:36 | 1 |
| Lithium | <2.5 | | 10 | 2.5 | ug/L | | 04/23/21 09:00 | 04/29/21 21:36 | 1 |
| Molybdenum | <1.3 | | 2.0 | 1.3 | ug/L | | 04/23/21 09:00 | 04/29/21 21:36 | 1 |
| Selenium | <0.96 | | 5.0 | 0.96 | ug/L | | 04/23/21 09:00 | 04/29/21 21:36 | 1 |
| Thallium | <0.26 | | 1.0 | 0.26 | ug/L | | 04/23/21 09:00 | 04/29/21 21:36 | 1 |

Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.15 | | 0.20 | 0.15 | ug/L | | 04/26/21 14:48 | 04/27/21 14:46 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|------------|-----------|-----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | <26 | | 30 | 26 | mg/L | | | 04/23/21 11:07 | 1 |
| pH | 8.3 | HF | 0.1 | 0.1 | SU | | | 04/21/21 17:39 | 1 |

Client Sample Results

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-204849-1

Client Sample ID: MW-310A

Lab Sample ID: 310-204849-19

Date Collected: 04/20/21 16:45

Matrix: Water

Date Received: 04/21/21 16:40

Method: 9056A - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|------|------|---|----------|----------------|---------|
| Chloride | 14 | | 5.0 | 2.2 | mg/L | | | 04/27/21 14:46 | 5 |
| Fluoride | 0.44 | J | 0.50 | 0.28 | mg/L | | | 04/27/21 14:46 | 5 |
| Sulfate | 120 | | 5.0 | 2.5 | mg/L | | | 04/27/21 14:46 | 5 |

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Antimony | <1.1 | | 2.0 | 1.1 | ug/L | | 04/23/21 09:00 | 04/29/21 21:39 | 1 |
| Arsenic | 3.5 | | 2.0 | 0.75 | ug/L | | 04/23/21 09:00 | 04/29/21 21:39 | 1 |
| Barium | 75 | | 2.0 | 0.30 | ug/L | | 04/23/21 09:00 | 04/29/21 21:39 | 1 |
| Beryllium | <0.27 | | 1.0 | 0.27 | ug/L | | 04/23/21 09:00 | 04/29/21 21:39 | 1 |
| Boron | 1100 | | 100 | 58 | ug/L | | 04/23/21 09:00 | 04/29/21 21:39 | 1 |
| Cadmium | <0.051 | | 0.10 | 0.051 | ug/L | | 04/23/21 09:00 | 04/29/21 21:39 | 1 |
| Calcium | 52 | | 0.50 | 0.19 | mg/L | | 04/23/21 09:00 | 04/29/21 21:39 | 1 |
| Chromium | 1.5 | J | 5.0 | 1.1 | ug/L | | 04/23/21 09:00 | 04/29/21 21:39 | 1 |
| Cobalt | 3.0 | | 0.50 | 0.091 | ug/L | | 04/23/21 09:00 | 04/29/21 21:39 | 1 |
| Lead | 2.8 | | 0.50 | 0.21 | ug/L | | 04/23/21 09:00 | 04/29/21 21:39 | 1 |
| Lithium | 40 | | 10 | 2.5 | ug/L | | 04/23/21 09:00 | 04/29/21 21:39 | 1 |
| Molybdenum | 24 | | 2.0 | 1.3 | ug/L | | 04/23/21 09:00 | 04/29/21 21:39 | 1 |
| Selenium | <0.96 | | 5.0 | 0.96 | ug/L | | 04/23/21 09:00 | 04/29/21 21:39 | 1 |
| Thallium | <0.26 | | 1.0 | 0.26 | ug/L | | 04/23/21 09:00 | 04/29/21 21:39 | 1 |

Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.15 | | 0.20 | 0.15 | ug/L | | 04/26/21 14:49 | 04/27/21 14:48 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 660 | | 30 | 26 | mg/L | | | 04/23/21 11:07 | 1 |
| pH | 7.6 | HF | 0.1 | 0.1 | SU | | | 04/22/21 14:53 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|--------|-----------|----|-----|------------|---|----------|----------------|---------|
| Ground Water Elevation | 521.12 | | | | ft | | | 04/20/21 16:45 | 1 |
| Oxidation Reduction Potential | 55.0 | | | | millivolts | | | 04/20/21 16:45 | 1 |
| Oxygen, Dissolved, Client Supplied | 3.69 | | | | mg/L | | | 04/20/21 16:45 | 1 |
| pH, Field | 7.41 | | | | SU | | | 04/20/21 16:45 | 1 |
| Specific Conductance, Field | 1042 | | | | umhos/cm | | | 04/20/21 16:45 | 1 |
| Temperature, Field | 11.7 | | | | Degrees C | | | 04/20/21 16:45 | 1 |
| Turbidity, Field | - | | | | NTU | | | 04/20/21 16:45 | 1 |

Definitions/Glossary

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-204849-1

Qualifiers

HPLC/IC

| Qualifier | Qualifier Description |
|-----------|----------------------------------------------------------------------------------------------------------------|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

Metals

| Qualifier | Qualifier Description |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4 | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

General Chemistry

| Qualifier | Qualifier Description |
|-----------|------------------------------------------------------------------------------------------------------|
| HF | Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. |

Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|----------------|-------------------------------------------------------------------------------------------------------------|
| α | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CFU | Colony Forming Unit |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MCL | EPA recommended "Maximum Contaminant Level" |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| MPN | Most Probable Number |
| MQL | Method Quantitation Limit |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| NEG | Negative / Absent |
| POS | Positive / Present |
| PQL | Practical Quantitation Limit |
| PRES | Presumptive |
| QC | Quality Control |
| RER | Relative Error Ratio (Radiochemistry) |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |
| TNTC | Too Numerous To Count |

QC Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-204849-1

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 310-314245/3
Matrix: Water
Analysis Batch: 314245

Client Sample ID: Method Blank
Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|-----------|--------------|------|-------|------|---|----------|----------------|---------|
| Chloride | <0.43 | | 1.0 | 0.43 | mg/L | | | 04/27/21 07:29 | 1 |
| Fluoride | <0.055 | | 0.10 | 0.055 | mg/L | | | 04/27/21 07:29 | 1 |
| Sulfate | <0.49 | | 1.0 | 0.49 | mg/L | | | 04/27/21 07:29 | 1 |

Lab Sample ID: LCS 310-314245/4
Matrix: Water
Analysis Batch: 314245

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|------|---|------|--------------|
| Chloride | 10.0 | 9.11 | | mg/L | | 91 | 90 - 110 |
| Fluoride | 2.00 | 2.09 | | mg/L | | 104 | 90 - 110 |
| Sulfate | 10.0 | 9.88 | | mg/L | | 99 | 90 - 110 |

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 310-313650/1-A
Matrix: Water
Analysis Batch: 314445

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 313650

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|-----------|--------------|------|-------|------|---|----------------|----------------|---------|
| Antimony | <1.1 | | 2.0 | 1.1 | ug/L | | 04/23/21 09:00 | 04/29/21 20:08 | 1 |
| Arsenic | <0.75 | | 2.0 | 0.75 | ug/L | | 04/23/21 09:00 | 04/29/21 20:08 | 1 |
| Barium | <0.30 | | 2.0 | 0.30 | ug/L | | 04/23/21 09:00 | 04/29/21 20:08 | 1 |
| Beryllium | <0.27 | | 1.0 | 0.27 | ug/L | | 04/23/21 09:00 | 04/29/21 20:08 | 1 |
| Boron | <58 | | 100 | 58 | ug/L | | 04/23/21 09:00 | 04/29/21 20:08 | 1 |
| Cadmium | <0.051 | | 0.10 | 0.051 | ug/L | | 04/23/21 09:00 | 04/29/21 20:08 | 1 |
| Calcium | <0.19 | | 0.50 | 0.19 | mg/L | | 04/23/21 09:00 | 04/29/21 20:08 | 1 |
| Chromium | <1.1 | | 5.0 | 1.1 | ug/L | | 04/23/21 09:00 | 04/29/21 20:08 | 1 |
| Cobalt | <0.091 | | 0.50 | 0.091 | ug/L | | 04/23/21 09:00 | 04/29/21 20:08 | 1 |
| Lead | <0.21 | | 0.50 | 0.21 | ug/L | | 04/23/21 09:00 | 04/29/21 20:08 | 1 |
| Lithium | <2.5 | | 10 | 2.5 | ug/L | | 04/23/21 09:00 | 04/29/21 20:08 | 1 |
| Molybdenum | <1.3 | | 2.0 | 1.3 | ug/L | | 04/23/21 09:00 | 04/29/21 20:08 | 1 |
| Selenium | <0.96 | | 5.0 | 0.96 | ug/L | | 04/23/21 09:00 | 04/29/21 20:08 | 1 |
| Thallium | <0.26 | | 1.0 | 0.26 | ug/L | | 04/23/21 09:00 | 04/29/21 20:08 | 1 |

Lab Sample ID: LCS 310-313650/2-A
Matrix: Water
Analysis Batch: 314445

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 313650

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------|-------------|------------|---------------|------|---|------|--------------|
| Antimony | 200 | 211 | | ug/L | | 106 | 80 - 120 |
| Arsenic | 200 | 220 | | ug/L | | 110 | 80 - 120 |
| Barium | 100 | 111 | | ug/L | | 111 | 80 - 120 |
| Beryllium | 100 | 107 | | ug/L | | 107 | 80 - 120 |
| Cadmium | 100 | 108 | | ug/L | | 108 | 80 - 120 |
| Calcium | 2.00 | 2.10 | | mg/L | | 105 | 80 - 120 |
| Chromium | 100 | 109 | | ug/L | | 109 | 80 - 120 |
| Cobalt | 100 | 105 | | ug/L | | 105 | 80 - 120 |
| Lead | 200 | 227 | | ug/L | | 113 | 80 - 120 |

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QC Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-204849-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 310-313650/2-A
Matrix: Water
Analysis Batch: 314445

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 313650

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|------------|-------------|------------|---------------|------|---|------|--------------|
| Lithium | 200 | 218 | | ug/L | | 109 | 80 - 120 |
| Molybdenum | 200 | 209 | | ug/L | | 104 | 80 - 120 |
| Selenium | 400 | 426 | | ug/L | | 106 | 80 - 120 |
| Thallium | 200 | 209 | | ug/L | | 104 | 80 - 120 |

Lab Sample ID: LCS 310-313650/2-A
Matrix: Water
Analysis Batch: 314644

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 313650

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|-------------|------------|---------------|------|---|------|--------------|
| Boron | 200 | 199 | | ug/L | | 99 | 80 - 120 |

Lab Sample ID: 310-204849-1 MS
Matrix: Water
Analysis Batch: 314445

Client Sample ID: MW-301
Prep Type: Total/NA
Prep Batch: 313650

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|------------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Antimony | <1.1 | | 200 | 218 | | ug/L | | 109 | 75 - 125 |
| Arsenic | 61 | | 200 | 282 | | ug/L | | 110 | 75 - 125 |
| Barium | 560 | | 100 | 676 | 4 | ug/L | | 121 | 75 - 125 |
| Beryllium | <0.27 | | 100 | 106 | | ug/L | | 106 | 75 - 125 |
| Cadmium | 0.066 | J | 100 | 102 | | ug/L | | 102 | 75 - 125 |
| Calcium | 240 | | 2.00 | 241 | 4 | mg/L | | -39 | 75 - 125 |
| Chromium | <1.1 | | 100 | 105 | | ug/L | | 105 | 75 - 125 |
| Cobalt | 0.81 | | 100 | 104 | | ug/L | | 103 | 75 - 125 |
| Lead | <0.21 | | 200 | 214 | | ug/L | | 107 | 75 - 125 |
| Lithium | 10 | | 200 | 220 | | ug/L | | 105 | 75 - 125 |
| Molybdenum | 46 | | 200 | 262 | | ug/L | | 108 | 75 - 125 |
| Selenium | 1.3 | J | 400 | 423 | | ug/L | | 105 | 75 - 125 |
| Thallium | 1.0 | | 200 | 195 | | ug/L | | 97 | 75 - 125 |

Lab Sample ID: 310-204849-1 MS
Matrix: Water
Analysis Batch: 314644

Client Sample ID: MW-301
Prep Type: Total/NA
Prep Batch: 313650

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Boron | 9600 | | 200 | 10700 | 4 | ug/L | | 552 | 75 - 125 |

Lab Sample ID: 310-204849-1 MSD
Matrix: Water
Analysis Batch: 314445

Client Sample ID: MW-301
Prep Type: Total/NA
Prep Batch: 313650

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | Limit | RPD | RPD Limit |
|-----------|---------------|------------------|-------------|------------|---------------|------|---|------|----------|-----|-----------|
| Antimony | <1.1 | | 200 | 220 | | ug/L | | 110 | 75 - 125 | 1 | 20 |
| Arsenic | 61 | | 200 | 284 | | ug/L | | 112 | 75 - 125 | 1 | 20 |
| Barium | 560 | | 100 | 701 | 4 | ug/L | | 146 | 75 - 125 | 4 | 20 |
| Beryllium | <0.27 | | 100 | 105 | | ug/L | | 105 | 75 - 125 | 0 | 20 |
| Cadmium | 0.066 | J | 100 | 102 | | ug/L | | 102 | 75 - 125 | 0 | 20 |
| Calcium | 240 | | 2.00 | 239 | 4 | mg/L | | -168 | 75 - 125 | 1 | 20 |
| Chromium | <1.1 | | 100 | 104 | | ug/L | | 104 | 75 - 125 | 1 | 20 |

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QC Sample Results

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-204849-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 310-204849-1 MSD
Matrix: Water
Analysis Batch: 314445

Client Sample ID: MW-301
Prep Type: Total/NA
Prep Batch: 313650

| Analyte | Sample | Sample | Spike | MSD | MSD | Unit | D | %Rec | %Rec. | RPD | Limit |
|------------|--------|-----------|-------|--------|-----------|------|---|------|----------|-----|-------|
| | Result | Qualifier | | Result | Qualifier | | | | Limits | | |
| Cobalt | 0.81 | | 100 | 105 | | ug/L | | 104 | 75 - 125 | 1 | 20 |
| Lead | <0.21 | | 200 | 217 | | ug/L | | 109 | 75 - 125 | 2 | 20 |
| Lithium | 10 | | 200 | 216 | | ug/L | | 103 | 75 - 125 | 2 | 20 |
| Molybdenum | 46 | | 200 | 265 | | ug/L | | 109 | 75 - 125 | 1 | 20 |
| Selenium | 1.3 | J | 400 | 425 | | ug/L | | 106 | 75 - 125 | 1 | 20 |
| Thallium | 1.0 | | 200 | 202 | | ug/L | | 101 | 75 - 125 | 3 | 20 |

Lab Sample ID: 310-204849-1 MSD
Matrix: Water
Analysis Batch: 314644

Client Sample ID: MW-301
Prep Type: Total/NA
Prep Batch: 313650

| Analyte | Sample | Sample | Spike | MSD | MSD | Unit | D | %Rec | %Rec. | RPD | Limit |
|---------|--------|-----------|-------|--------|-----------|------|---|------|----------|-----|-------|
| | Result | Qualifier | | Result | Qualifier | | | | Limits | | |
| Boron | 9600 | | 200 | 10600 | 4 | ug/L | | 505 | 75 - 125 | 1 | 20 |

Lab Sample ID: 310-204849-11 DU
Matrix: Water
Analysis Batch: 314445

Client Sample ID: MW-309
Prep Type: Total/NA
Prep Batch: 313650

| Analyte | Sample | Sample | DU | DU | Unit | D | RPD | Limit |
|------------|--------|-----------|--------|--------|------|---|-----|-------|
| | Result | Qualifier | | Result | | | | |
| Antimony | <1.1 | | <1.1 | | ug/L | | NC | 20 |
| Arsenic | 30 | | 30.5 | | ug/L | | 1 | 20 |
| Barium | 340 | | 338 | | ug/L | | 0.3 | 20 |
| Beryllium | <0.27 | | <0.27 | | ug/L | | NC | 20 |
| Cadmium | <0.051 | | <0.051 | | ug/L | | NC | 20 |
| Calcium | 76 | | 76.7 | | mg/L | | 0.8 | 20 |
| Chromium | <1.1 | | <1.1 | | ug/L | | NC | 20 |
| Cobalt | 0.39 | J | 0.404 | J | ug/L | | 3 | 20 |
| Lead | <0.21 | | <0.21 | | ug/L | | NC | 20 |
| Lithium | 3.8 | J | 3.28 | J | ug/L | | 14 | 20 |
| Molybdenum | 50 | | 50.7 | | ug/L | | 0.7 | 20 |
| Selenium | <0.96 | | <0.96 | | ug/L | | NC | 20 |
| Thallium | <0.26 | | <0.26 | | ug/L | | NC | 20 |

Lab Sample ID: 310-204849-11 DU
Matrix: Water
Analysis Batch: 314644

Client Sample ID: MW-309
Prep Type: Total/NA
Prep Batch: 313650

| Analyte | Sample | Sample | DU | DU | Unit | D | RPD | Limit |
|---------|--------|-----------|------|--------|------|---|-----|-------|
| | Result | Qualifier | | Result | | | | |
| Boron | 5000 | | 4810 | | ug/L | | 4 | 20 |

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 310-313952/1-A
Matrix: Water
Analysis Batch: 314137

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 313952

| Analyte | MB | MB | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Mercury | <0.15 | | 0.20 | 0.15 | ug/L | | 04/26/21 14:48 | 04/27/21 13:53 | 1 |

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QC Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-204849-1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 310-313952/2-A
Matrix: Water
Analysis Batch: 314137

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 313952
 %Rec.

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits |
|---------|-------------|------------|---------------|------|---|------|----------|
| Mercury | 1.67 | 1.69 | | ug/L | | 101 | 80 - 120 |

Lab Sample ID: 310-204849-4 MS
Matrix: Water
Analysis Batch: 314137

Client Sample ID: MW-303
Prep Type: Total/NA
Prep Batch: 313952
 %Rec.

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | Limits |
|---------|---------------|------------------|-------------|-----------|--------------|------|---|------|----------|
| Mercury | <0.15 | | 1.67 | 1.78 | | ug/L | | 107 | 80 - 120 |

Lab Sample ID: 310-204849-4 MSD
Matrix: Water
Analysis Batch: 314137

Client Sample ID: MW-303
Prep Type: Total/NA
Prep Batch: 313952
 %Rec.

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
|---------|---------------|------------------|-------------|------------|---------------|------|---|------|----------|-----|-------|
| Mercury | <0.15 | | 1.67 | 1.69 | | ug/L | | 101 | 80 - 120 | 5 | 20 |

Lab Sample ID: MB 310-314094/1-A
Matrix: Water
Analysis Batch: 314478

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 314094

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.15 | | 0.20 | 0.15 | ug/L | | 04/28/21 10:00 | 04/29/21 12:49 | 1 |

Lab Sample ID: LCS 310-314094/2-A
Matrix: Water
Analysis Batch: 314478

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 314094
 %Rec.

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits |
|---------|-------------|------------|---------------|------|---|------|----------|
| Mercury | 1.67 | 1.66 | | ug/L | | 99 | 80 - 120 |

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 310-313725/1
Matrix: Water
Analysis Batch: 313725

Client Sample ID: Method Blank
Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|-----------|--------------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | <26 | | 30 | 26 | mg/L | | | 04/23/21 09:11 | 1 |

Lab Sample ID: LCS 310-313725/2
Matrix: Water
Analysis Batch: 313725

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
 %Rec.

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits |
|------------------------|-------------|------------|---------------|------|---|------|----------|
| Total Dissolved Solids | 1000 | 956 | | mg/L | | 96 | 90 - 110 |

QC Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-204849-1

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: 310-204849-15 DU
Matrix: Water
Analysis Batch: 313725

Client Sample ID: MW-312
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | Limit |
|------------------------|---------------|------------------|-----------|--------------|------|---|-----|-------|
| Total Dissolved Solids | 540 | | 540 | | mg/L | | 0.4 | 20 |

Lab Sample ID: MB 310-313757/1
Matrix: Water
Analysis Batch: 313757

Client Sample ID: Method Blank
Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|-----------|--------------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | <26 | | 30 | 26 | mg/L | | | 04/23/21 11:07 | 1 |

Lab Sample ID: LCS 310-313757/2
Matrix: Water
Analysis Batch: 313757

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|------------------------|-------------|------------|---------------|------|---|------|--------------|
| Total Dissolved Solids | 1000 | 960 | | mg/L | | 96 | 90 - 110 |

Lab Sample ID: 310-204849-6 DU
Matrix: Water
Analysis Batch: 313757

Client Sample ID: MW-305
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | Limit |
|------------------------|---------------|------------------|-----------|--------------|------|---|-----|-------|
| Total Dissolved Solids | 420 | | 460 | | mg/L | | 8 | 20 |

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 310-313499/31
Matrix: Water
Analysis Batch: 313499

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|-------------|------------|---------------|------|---|------|--------------|
| pH | 7.00 | 7.0 | | SU | | 100 | 98 - 102 |

Lab Sample ID: 310-204849-14 DU
Matrix: Water
Analysis Batch: 313499

Client Sample ID: MW-311
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | Limit |
|---------|---------------|------------------|-----------|--------------|------|---|-----|-------|
| pH | 7.2 | HF | 7.2 | | SU | | 0.3 | 20 |

Lab Sample ID: LCS 310-313628/1
Matrix: Water
Analysis Batch: 313628

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|-------------|------------|---------------|------|---|------|--------------|
| pH | 7.00 | 7.0 | | SU | | 100 | 98 - 102 |

QC Association Summary

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-204849-1

HPLC/IC

Analysis Batch: 314245

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 310-204849-1 | MW-301 | Total/NA | Water | 9056A | |
| 310-204849-2 | MW-302 | Total/NA | Water | 9056A | |
| 310-204849-3 | MW-302A | Total/NA | Water | 9056A | |
| 310-204849-4 | MW-303 | Total/NA | Water | 9056A | |
| 310-204849-5 | MW-304 | Total/NA | Water | 9056A | |
| 310-204849-6 | MW-305 | Total/NA | Water | 9056A | |
| 310-204849-7 | MW-306 | Total/NA | Water | 9056A | |
| 310-204849-8 | MW-307 | Total/NA | Water | 9056A | |
| 310-204849-9 | MW-307A | Total/NA | Water | 9056A | |
| 310-204849-10 | MW-308 | Total/NA | Water | 9056A | |
| 310-204849-11 | MW-309 | Total/NA | Water | 9056A | |
| 310-204849-12 | MW-310 | Total/NA | Water | 9056A | |
| 310-204849-14 | MW-311 | Total/NA | Water | 9056A | |
| 310-204849-15 | MW-312 | Total/NA | Water | 9056A | |
| 310-204849-16 | MW-313 | Total/NA | Water | 9056A | |
| 310-204849-17 | MW-313A | Total/NA | Water | 9056A | |
| 310-204849-18 | Field Blank | Total/NA | Water | 9056A | |
| 310-204849-19 | MW-310A | Total/NA | Water | 9056A | |
| MB 310-314245/3 | Method Blank | Total/NA | Water | 9056A | |
| LCS 310-314245/4 | Lab Control Sample | Total/NA | Water | 9056A | |

Metals

Prep Batch: 313650

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 310-204849-1 | MW-301 | Total/NA | Water | 3010A | |
| 310-204849-2 | MW-302 | Total/NA | Water | 3010A | |
| 310-204849-3 | MW-302A | Total/NA | Water | 3010A | |
| 310-204849-4 | MW-303 | Total/NA | Water | 3010A | |
| 310-204849-5 | MW-304 | Total/NA | Water | 3010A | |
| 310-204849-6 | MW-305 | Total/NA | Water | 3010A | |
| 310-204849-7 | MW-306 | Total/NA | Water | 3010A | |
| 310-204849-8 | MW-307 | Total/NA | Water | 3010A | |
| 310-204849-9 | MW-307A | Total/NA | Water | 3010A | |
| 310-204849-10 | MW-308 | Total/NA | Water | 3010A | |
| 310-204849-11 | MW-309 | Total/NA | Water | 3010A | |
| 310-204849-12 | MW-310 | Total/NA | Water | 3010A | |
| 310-204849-14 | MW-311 | Total/NA | Water | 3010A | |
| 310-204849-15 | MW-312 | Total/NA | Water | 3010A | |
| 310-204849-16 | MW-313 | Total/NA | Water | 3010A | |
| 310-204849-17 | MW-313A | Total/NA | Water | 3010A | |
| 310-204849-18 | Field Blank | Total/NA | Water | 3010A | |
| 310-204849-19 | MW-310A | Total/NA | Water | 3010A | |
| MB 310-313650/1-A | Method Blank | Total/NA | Water | 3010A | |
| LCS 310-313650/2-A | Lab Control Sample | Total/NA | Water | 3010A | |
| 310-204849-1 MS | MW-301 | Total/NA | Water | 3010A | |
| 310-204849-1 MSD | MW-301 | Total/NA | Water | 3010A | |
| 310-204849-11 DU | MW-309 | Total/NA | Water | 3010A | |

QC Association Summary

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-204849-1

Metals

Prep Batch: 313952

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 310-204849-4 | MW-303 | Total/NA | Water | 7470A | |
| 310-204849-5 | MW-304 | Total/NA | Water | 7470A | |
| 310-204849-6 | MW-305 | Total/NA | Water | 7470A | |
| 310-204849-7 | MW-306 | Total/NA | Water | 7470A | |
| 310-204849-8 | MW-307 | Total/NA | Water | 7470A | |
| 310-204849-9 | MW-307A | Total/NA | Water | 7470A | |
| 310-204849-10 | MW-308 | Total/NA | Water | 7470A | |
| 310-204849-11 | MW-309 | Total/NA | Water | 7470A | |
| 310-204849-12 | MW-310 | Total/NA | Water | 7470A | |
| 310-204849-14 | MW-311 | Total/NA | Water | 7470A | |
| 310-204849-15 | MW-312 | Total/NA | Water | 7470A | |
| 310-204849-16 | MW-313 | Total/NA | Water | 7470A | |
| 310-204849-17 | MW-313A | Total/NA | Water | 7470A | |
| 310-204849-18 | Field Blank | Total/NA | Water | 7470A | |
| 310-204849-19 | MW-310A | Total/NA | Water | 7470A | |
| MB 310-313952/1-A | Method Blank | Total/NA | Water | 7470A | |
| LCS 310-313952/2-A | Lab Control Sample | Total/NA | Water | 7470A | |
| 310-204849-4 MS | MW-303 | Total/NA | Water | 7470A | |
| 310-204849-4 MSD | MW-303 | Total/NA | Water | 7470A | |

Prep Batch: 314094

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 310-204849-1 | MW-301 | Total/NA | Water | 7470A | |
| 310-204849-2 | MW-302 | Total/NA | Water | 7470A | |
| 310-204849-3 | MW-302A | Total/NA | Water | 7470A | |
| MB 310-314094/1-A | Method Blank | Total/NA | Water | 7470A | |
| LCS 310-314094/2-A | Lab Control Sample | Total/NA | Water | 7470A | |

Analysis Batch: 314137

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 310-204849-4 | MW-303 | Total/NA | Water | 7470A | 313952 |
| 310-204849-5 | MW-304 | Total/NA | Water | 7470A | 313952 |
| 310-204849-6 | MW-305 | Total/NA | Water | 7470A | 313952 |
| 310-204849-7 | MW-306 | Total/NA | Water | 7470A | 313952 |
| 310-204849-8 | MW-307 | Total/NA | Water | 7470A | 313952 |
| 310-204849-9 | MW-307A | Total/NA | Water | 7470A | 313952 |
| 310-204849-10 | MW-308 | Total/NA | Water | 7470A | 313952 |
| 310-204849-11 | MW-309 | Total/NA | Water | 7470A | 313952 |
| 310-204849-12 | MW-310 | Total/NA | Water | 7470A | 313952 |
| 310-204849-14 | MW-311 | Total/NA | Water | 7470A | 313952 |
| 310-204849-15 | MW-312 | Total/NA | Water | 7470A | 313952 |
| 310-204849-16 | MW-313 | Total/NA | Water | 7470A | 313952 |
| 310-204849-17 | MW-313A | Total/NA | Water | 7470A | 313952 |
| 310-204849-18 | Field Blank | Total/NA | Water | 7470A | 313952 |
| 310-204849-19 | MW-310A | Total/NA | Water | 7470A | 313952 |
| MB 310-313952/1-A | Method Blank | Total/NA | Water | 7470A | 313952 |
| LCS 310-313952/2-A | Lab Control Sample | Total/NA | Water | 7470A | 313952 |
| 310-204849-4 MS | MW-303 | Total/NA | Water | 7470A | 313952 |
| 310-204849-4 MSD | MW-303 | Total/NA | Water | 7470A | 313952 |

QC Association Summary

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-204849-1

Metals

Analysis Batch: 314445

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 310-204849-1 | MW-301 | Total/NA | Water | 6020A | 313650 |
| 310-204849-2 | MW-302 | Total/NA | Water | 6020A | 313650 |
| 310-204849-3 | MW-302A | Total/NA | Water | 6020A | 313650 |
| 310-204849-4 | MW-303 | Total/NA | Water | 6020A | 313650 |
| 310-204849-5 | MW-304 | Total/NA | Water | 6020A | 313650 |
| 310-204849-6 | MW-305 | Total/NA | Water | 6020A | 313650 |
| 310-204849-7 | MW-306 | Total/NA | Water | 6020A | 313650 |
| 310-204849-8 | MW-307 | Total/NA | Water | 6020A | 313650 |
| 310-204849-9 | MW-307A | Total/NA | Water | 6020A | 313650 |
| 310-204849-10 | MW-308 | Total/NA | Water | 6020A | 313650 |
| 310-204849-11 | MW-309 | Total/NA | Water | 6020A | 313650 |
| 310-204849-12 | MW-310 | Total/NA | Water | 6020A | 313650 |
| 310-204849-14 | MW-311 | Total/NA | Water | 6020A | 313650 |
| 310-204849-15 | MW-312 | Total/NA | Water | 6020A | 313650 |
| 310-204849-16 | MW-313 | Total/NA | Water | 6020A | 313650 |
| 310-204849-17 | MW-313A | Total/NA | Water | 6020A | 313650 |
| 310-204849-18 | Field Blank | Total/NA | Water | 6020A | 313650 |
| 310-204849-19 | MW-310A | Total/NA | Water | 6020A | 313650 |
| MB 310-313650/1-A | Method Blank | Total/NA | Water | 6020A | 313650 |
| LCS 310-313650/2-A | Lab Control Sample | Total/NA | Water | 6020A | 313650 |
| 310-204849-1 MS | MW-301 | Total/NA | Water | 6020A | 313650 |
| 310-204849-1 MSD | MW-301 | Total/NA | Water | 6020A | 313650 |
| 310-204849-11 DU | MW-309 | Total/NA | Water | 6020A | 313650 |

Analysis Batch: 314478

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 310-204849-1 | MW-301 | Total/NA | Water | 7470A | 314094 |
| 310-204849-2 | MW-302 | Total/NA | Water | 7470A | 314094 |
| 310-204849-3 | MW-302A | Total/NA | Water | 7470A | 314094 |
| MB 310-314094/1-A | Method Blank | Total/NA | Water | 7470A | 314094 |
| LCS 310-314094/2-A | Lab Control Sample | Total/NA | Water | 7470A | 314094 |

Analysis Batch: 314644

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 310-204849-1 | MW-301 | Total/NA | Water | 6020A | 313650 |
| 310-204849-2 | MW-302 | Total/NA | Water | 6020A | 313650 |
| 310-204849-3 | MW-302A | Total/NA | Water | 6020A | 313650 |
| 310-204849-4 | MW-303 | Total/NA | Water | 6020A | 313650 |
| 310-204849-5 | MW-304 | Total/NA | Water | 6020A | 313650 |
| 310-204849-6 | MW-305 | Total/NA | Water | 6020A | 313650 |
| 310-204849-7 | MW-306 | Total/NA | Water | 6020A | 313650 |
| 310-204849-8 | MW-307 | Total/NA | Water | 6020A | 313650 |
| 310-204849-9 | MW-307A | Total/NA | Water | 6020A | 313650 |
| 310-204849-10 | MW-308 | Total/NA | Water | 6020A | 313650 |
| 310-204849-11 | MW-309 | Total/NA | Water | 6020A | 313650 |
| 310-204849-12 | MW-310 | Total/NA | Water | 6020A | 313650 |
| 310-204849-14 | MW-311 | Total/NA | Water | 6020A | 313650 |
| 310-204849-15 | MW-312 | Total/NA | Water | 6020A | 313650 |
| 310-204849-16 | MW-313 | Total/NA | Water | 6020A | 313650 |
| LCS 310-313650/2-A | Lab Control Sample | Total/NA | Water | 6020A | 313650 |
| 310-204849-1 MS | MW-301 | Total/NA | Water | 6020A | 313650 |

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QC Association Summary

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-204849-1

Metals (Continued)

Analysis Batch: 314644 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------|------------|
| 310-204849-1 MSD | MW-301 | Total/NA | Water | 6020A | 313650 |
| 310-204849-11 DU | MW-309 | Total/NA | Water | 6020A | 313650 |

General Chemistry

Analysis Batch: 313499

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------------|------------|
| 310-204849-1 | MW-301 | Total/NA | Water | SM 4500 H+ B | |
| 310-204849-2 | MW-302 | Total/NA | Water | SM 4500 H+ B | |
| 310-204849-3 | MW-302A | Total/NA | Water | SM 4500 H+ B | |
| 310-204849-4 | MW-303 | Total/NA | Water | SM 4500 H+ B | |
| 310-204849-5 | MW-304 | Total/NA | Water | SM 4500 H+ B | |
| 310-204849-6 | MW-305 | Total/NA | Water | SM 4500 H+ B | |
| 310-204849-7 | MW-306 | Total/NA | Water | SM 4500 H+ B | |
| 310-204849-8 | MW-307 | Total/NA | Water | SM 4500 H+ B | |
| 310-204849-9 | MW-307A | Total/NA | Water | SM 4500 H+ B | |
| 310-204849-10 | MW-308 | Total/NA | Water | SM 4500 H+ B | |
| 310-204849-11 | MW-309 | Total/NA | Water | SM 4500 H+ B | |
| 310-204849-12 | MW-310 | Total/NA | Water | SM 4500 H+ B | |
| 310-204849-14 | MW-311 | Total/NA | Water | SM 4500 H+ B | |
| 310-204849-15 | MW-312 | Total/NA | Water | SM 4500 H+ B | |
| 310-204849-16 | MW-313 | Total/NA | Water | SM 4500 H+ B | |
| 310-204849-17 | MW-313A | Total/NA | Water | SM 4500 H+ B | |
| 310-204849-18 | Field Blank | Total/NA | Water | SM 4500 H+ B | |
| LCS 310-313499/31 | Lab Control Sample | Total/NA | Water | SM 4500 H+ B | |
| 310-204849-14 DU | MW-311 | Total/NA | Water | SM 4500 H+ B | |

Analysis Batch: 313628

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------------|------------|
| 310-204849-19 | MW-310A | Total/NA | Water | SM 4500 H+ B | |
| LCS 310-313628/1 | Lab Control Sample | Total/NA | Water | SM 4500 H+ B | |

Analysis Batch: 313725

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|----------|------------|
| 310-204849-1 | MW-301 | Total/NA | Water | SM 2540C | |
| 310-204849-2 | MW-302 | Total/NA | Water | SM 2540C | |
| 310-204849-3 | MW-302A | Total/NA | Water | SM 2540C | |
| 310-204849-4 | MW-303 | Total/NA | Water | SM 2540C | |
| 310-204849-5 | MW-304 | Total/NA | Water | SM 2540C | |
| 310-204849-7 | MW-306 | Total/NA | Water | SM 2540C | |
| 310-204849-11 | MW-309 | Total/NA | Water | SM 2540C | |
| 310-204849-12 | MW-310 | Total/NA | Water | SM 2540C | |
| 310-204849-14 | MW-311 | Total/NA | Water | SM 2540C | |
| 310-204849-15 | MW-312 | Total/NA | Water | SM 2540C | |
| 310-204849-16 | MW-313 | Total/NA | Water | SM 2540C | |
| 310-204849-17 | MW-313A | Total/NA | Water | SM 2540C | |
| MB 310-313725/1 | Method Blank | Total/NA | Water | SM 2540C | |
| LCS 310-313725/2 | Lab Control Sample | Total/NA | Water | SM 2540C | |
| 310-204849-15 DU | MW-312 | Total/NA | Water | SM 2540C | |

QC Association Summary

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-204849-1

General Chemistry

Analysis Batch: 313757

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|----------|------------|
| 310-204849-6 | MW-305 | Total/NA | Water | SM 2540C | |
| 310-204849-8 | MW-307 | Total/NA | Water | SM 2540C | |
| 310-204849-9 | MW-307A | Total/NA | Water | SM 2540C | |
| 310-204849-10 | MW-308 | Total/NA | Water | SM 2540C | |
| 310-204849-18 | Field Blank | Total/NA | Water | SM 2540C | |
| 310-204849-19 | MW-310A | Total/NA | Water | SM 2540C | |
| MB 310-313757/1 | Method Blank | Total/NA | Water | SM 2540C | |
| LCS 310-313757/2 | Lab Control Sample | Total/NA | Water | SM 2540C | |
| 310-204849-6 DU | MW-305 | Total/NA | Water | SM 2540C | |

Field Service / Mobile Lab

Analysis Batch: 313875

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|----------------|------------|
| 310-204849-1 | MW-301 | Total/NA | Water | Field Sampling | |
| 310-204849-2 | MW-302 | Total/NA | Water | Field Sampling | |
| 310-204849-3 | MW-302A | Total/NA | Water | Field Sampling | |
| 310-204849-4 | MW-303 | Total/NA | Water | Field Sampling | |
| 310-204849-5 | MW-304 | Total/NA | Water | Field Sampling | |
| 310-204849-6 | MW-305 | Total/NA | Water | Field Sampling | |
| 310-204849-7 | MW-306 | Total/NA | Water | Field Sampling | |
| 310-204849-8 | MW-307 | Total/NA | Water | Field Sampling | |
| 310-204849-9 | MW-307A | Total/NA | Water | Field Sampling | |
| 310-204849-10 | MW-308 | Total/NA | Water | Field Sampling | |
| 310-204849-11 | MW-309 | Total/NA | Water | Field Sampling | |
| 310-204849-12 | MW-310 | Total/NA | Water | Field Sampling | |
| 310-204849-14 | MW-311 | Total/NA | Water | Field Sampling | |
| 310-204849-15 | MW-312 | Total/NA | Water | Field Sampling | |
| 310-204849-16 | MW-313 | Total/NA | Water | Field Sampling | |
| 310-204849-17 | MW-313A | Total/NA | Water | Field Sampling | |
| 310-204849-19 | MW-310A | Total/NA | Water | Field Sampling | |

Lab Chronicle

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-204849-1

Client Sample ID: MW-301

Date Collected: 04/19/21 11:40

Date Received: 04/21/21 16:40

Lab Sample ID: 310-204849-1

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Analysis | 9056A | | 5 | 314245 | 04/27/21 09:02 | JNR | TAL CF |
| Total/NA | Prep | 3010A | | | 313650 | 04/23/21 09:00 | JNR | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 314445 | 04/29/21 20:24 | SAD | TAL CF |
| Total/NA | Prep | 3010A | | | 313650 | 04/23/21 09:00 | JNR | TAL CF |
| Total/NA | Analysis | 6020A | | 10 | 314644 | 04/30/21 13:31 | SAD | TAL CF |
| Total/NA | Prep | 7470A | | | 314094 | 04/28/21 10:00 | JNR | TAL CF |
| Total/NA | Analysis | 7470A | | 1 | 314478 | 04/29/21 12:57 | HED | TAL CF |
| Total/NA | Analysis | SM 2540C | | 1 | 313725 | 04/23/21 09:11 | ARG | TAL CF |
| Total/NA | Analysis | SM 4500 H+ B | | 1 | 313499 | 04/21/21 17:18 | AJW | TAL CF |
| Total/NA | Analysis | Field Sampling | | 1 | 313875 | 04/19/21 11:40 | SLD | TAL CF |

Client Sample ID: MW-302

Date Collected: 04/19/21 13:50

Date Received: 04/21/21 16:40

Lab Sample ID: 310-204849-2

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Analysis | 9056A | | 5 | 314245 | 04/27/21 09:18 | JNR | TAL CF |
| Total/NA | Prep | 3010A | | | 313650 | 04/23/21 09:00 | JNR | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 314445 | 04/29/21 20:34 | SAD | TAL CF |
| Total/NA | Prep | 3010A | | | 313650 | 04/23/21 09:00 | JNR | TAL CF |
| Total/NA | Analysis | 6020A | | 10 | 314644 | 04/30/21 13:39 | SAD | TAL CF |
| Total/NA | Prep | 7470A | | | 314094 | 04/28/21 10:00 | JNR | TAL CF |
| Total/NA | Analysis | 7470A | | 1 | 314478 | 04/29/21 12:59 | HED | TAL CF |
| Total/NA | Analysis | SM 2540C | | 1 | 313725 | 04/23/21 09:11 | ARG | TAL CF |
| Total/NA | Analysis | SM 4500 H+ B | | 1 | 313499 | 04/21/21 17:22 | AJW | TAL CF |
| Total/NA | Analysis | Field Sampling | | 1 | 313875 | 04/19/21 13:50 | SLD | TAL CF |

Client Sample ID: MW-302A

Date Collected: 04/19/21 13:15

Date Received: 04/21/21 16:40

Lab Sample ID: 310-204849-3

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Analysis | 9056A | | 5 | 314245 | 04/27/21 09:34 | JNR | TAL CF |
| Total/NA | Prep | 3010A | | | 313650 | 04/23/21 09:00 | JNR | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 314445 | 04/29/21 20:37 | SAD | TAL CF |
| Total/NA | Prep | 3010A | | | 313650 | 04/23/21 09:00 | JNR | TAL CF |
| Total/NA | Analysis | 6020A | | 10 | 314644 | 04/30/21 13:42 | SAD | TAL CF |
| Total/NA | Prep | 7470A | | | 314094 | 04/28/21 10:00 | JNR | TAL CF |
| Total/NA | Analysis | 7470A | | 1 | 314478 | 04/29/21 13:02 | HED | TAL CF |
| Total/NA | Analysis | SM 2540C | | 1 | 313725 | 04/23/21 09:11 | ARG | TAL CF |
| Total/NA | Analysis | SM 4500 H+ B | | 1 | 313499 | 04/21/21 17:14 | AJW | TAL CF |
| Total/NA | Analysis | Field Sampling | | 1 | 313875 | 04/19/21 13:15 | SLD | TAL CF |

Lab Chronicle

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-204849-1

Client Sample ID: MW-303

Lab Sample ID: 310-204849-4

Date Collected: 04/19/21 15:55

Matrix: Water

Date Received: 04/21/21 16:40

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Analysis | 9056A | | 5 | 314245 | 04/27/21 09:50 | JNR | TAL CF |
| Total/NA | Prep | 3010A | | | 313650 | 04/23/21 09:00 | JNR | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 314445 | 04/29/21 20:39 | SAD | TAL CF |
| Total/NA | Prep | 3010A | | | 313650 | 04/23/21 09:00 | JNR | TAL CF |
| Total/NA | Analysis | 6020A | | 10 | 314644 | 04/30/21 13:44 | SAD | TAL CF |
| Total/NA | Prep | 7470A | | | 313952 | 04/26/21 14:48 | HED | TAL CF |
| Total/NA | Analysis | 7470A | | 1 | 314137 | 04/27/21 14:03 | HED | TAL CF |
| Total/NA | Analysis | SM 2540C | | 1 | 313725 | 04/23/21 09:11 | ARG | TAL CF |
| Total/NA | Analysis | SM 4500 H+ B | | 1 | 313499 | 04/21/21 17:20 | AJW | TAL CF |
| Total/NA | Analysis | Field Sampling | | 1 | 313875 | 04/19/21 15:55 | SLD | TAL CF |

Client Sample ID: MW-304

Lab Sample ID: 310-204849-5

Date Collected: 04/19/21 17:00

Matrix: Water

Date Received: 04/21/21 16:40

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Analysis | 9056A | | 5 | 314245 | 04/27/21 10:37 | JNR | TAL CF |
| Total/NA | Prep | 3010A | | | 313650 | 04/23/21 09:00 | JNR | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 314445 | 04/29/21 20:42 | SAD | TAL CF |
| Total/NA | Prep | 3010A | | | 313650 | 04/23/21 09:00 | JNR | TAL CF |
| Total/NA | Analysis | 6020A | | 10 | 314644 | 04/30/21 13:47 | SAD | TAL CF |
| Total/NA | Prep | 7470A | | | 313952 | 04/26/21 14:48 | HED | TAL CF |
| Total/NA | Analysis | 7470A | | 1 | 314137 | 04/27/21 14:09 | HED | TAL CF |
| Total/NA | Analysis | SM 2540C | | 1 | 313725 | 04/23/21 09:11 | ARG | TAL CF |
| Total/NA | Analysis | SM 4500 H+ B | | 1 | 313499 | 04/21/21 17:32 | AJW | TAL CF |
| Total/NA | Analysis | Field Sampling | | 1 | 313875 | 04/19/21 17:00 | SLD | TAL CF |

Client Sample ID: MW-305

Lab Sample ID: 310-204849-6

Date Collected: 04/20/21 14:00

Matrix: Water

Date Received: 04/21/21 16:40

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Analysis | 9056A | | 5 | 314245 | 04/27/21 10:52 | JNR | TAL CF |
| Total/NA | Prep | 3010A | | | 313650 | 04/23/21 09:00 | JNR | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 314445 | 04/29/21 20:44 | SAD | TAL CF |
| Total/NA | Prep | 3010A | | | 313650 | 04/23/21 09:00 | JNR | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 314644 | 04/30/21 14:00 | SAD | TAL CF |
| Total/NA | Prep | 7470A | | | 313952 | 04/26/21 14:48 | HED | TAL CF |
| Total/NA | Analysis | 7470A | | 1 | 314137 | 04/27/21 14:11 | HED | TAL CF |
| Total/NA | Analysis | SM 2540C | | 1 | 313757 | 04/23/21 11:07 | ARG | TAL CF |
| Total/NA | Analysis | SM 4500 H+ B | | 1 | 313499 | 04/21/21 17:34 | AJW | TAL CF |
| Total/NA | Analysis | Field Sampling | | 1 | 313875 | 04/20/21 14:00 | SLD | TAL CF |

Lab Chronicle

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-204849-1

Client Sample ID: MW-306

Date Collected: 04/19/21 12:20

Date Received: 04/21/21 16:40

Lab Sample ID: 310-204849-7

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Analysis | 9056A | | 5 | 314245 | 04/27/21 11:23 | JNR | TAL CF |
| Total/NA | Prep | 3010A | | | 313650 | 04/23/21 09:00 | JNR | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 314445 | 04/29/21 20:57 | SAD | TAL CF |
| Total/NA | Prep | 3010A | | | 313650 | 04/23/21 09:00 | JNR | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 314644 | 04/30/21 14:03 | SAD | TAL CF |
| Total/NA | Prep | 7470A | | | 313952 | 04/26/21 14:48 | HED | TAL CF |
| Total/NA | Analysis | 7470A | | 1 | 314137 | 04/27/21 14:14 | HED | TAL CF |
| Total/NA | Analysis | SM 2540C | | 1 | 313725 | 04/23/21 09:11 | ARG | TAL CF |
| Total/NA | Analysis | SM 4500 H+ B | | 1 | 313499 | 04/21/21 17:36 | AJW | TAL CF |
| Total/NA | Analysis | Field Sampling | | 1 | 313875 | 04/19/21 12:20 | SLD | TAL CF |

Client Sample ID: MW-307

Date Collected: 04/20/21 10:30

Date Received: 04/21/21 16:40

Lab Sample ID: 310-204849-8

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Analysis | 9056A | | 5 | 314245 | 04/27/21 11:39 | JNR | TAL CF |
| Total/NA | Prep | 3010A | | | 313650 | 04/23/21 09:00 | JNR | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 314445 | 04/29/21 21:00 | SAD | TAL CF |
| Total/NA | Prep | 3010A | | | 313650 | 04/23/21 09:00 | JNR | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 314644 | 04/30/21 14:05 | SAD | TAL CF |
| Total/NA | Prep | 7470A | | | 313952 | 04/26/21 14:48 | HED | TAL CF |
| Total/NA | Analysis | 7470A | | 1 | 314137 | 04/27/21 14:16 | HED | TAL CF |
| Total/NA | Analysis | SM 2540C | | 1 | 313757 | 04/23/21 11:07 | ARG | TAL CF |
| Total/NA | Analysis | SM 4500 H+ B | | 1 | 313499 | 04/21/21 17:37 | AJW | TAL CF |
| Total/NA | Analysis | Field Sampling | | 1 | 313875 | 04/20/21 10:30 | SLD | TAL CF |

Client Sample ID: MW-307A

Date Collected: 04/20/21 09:35

Date Received: 04/21/21 16:40

Lab Sample ID: 310-204849-9

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Analysis | 9056A | | 5 | 314245 | 04/27/21 11:55 | JNR | TAL CF |
| Total/NA | Prep | 3010A | | | 313650 | 04/23/21 09:00 | JNR | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 314445 | 04/29/21 21:03 | SAD | TAL CF |
| Total/NA | Prep | 3010A | | | 313650 | 04/23/21 09:00 | JNR | TAL CF |
| Total/NA | Analysis | 6020A | | 4 | 314644 | 04/30/21 14:08 | SAD | TAL CF |
| Total/NA | Prep | 7470A | | | 313952 | 04/26/21 14:48 | HED | TAL CF |
| Total/NA | Analysis | 7470A | | 1 | 314137 | 04/27/21 14:18 | HED | TAL CF |
| Total/NA | Analysis | SM 2540C | | 1 | 313757 | 04/23/21 11:07 | ARG | TAL CF |
| Total/NA | Analysis | SM 4500 H+ B | | 1 | 313499 | 04/21/21 17:38 | AJW | TAL CF |
| Total/NA | Analysis | Field Sampling | | 1 | 313875 | 04/20/21 09:35 | SLD | TAL CF |

Lab Chronicle

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-204849-1

Client Sample ID: MW-308

Lab Sample ID: 310-204849-10

Date Collected: 04/20/21 07:45

Matrix: Water

Date Received: 04/21/21 16:40

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Analysis | 9056A | | 5 | 314245 | 04/27/21 12:10 | JNR | TAL CF |
| Total/NA | Prep | 3010A | | | 313650 | 04/23/21 09:00 | JNR | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 314445 | 04/29/21 21:05 | SAD | TAL CF |
| Total/NA | Prep | 3010A | | | 313650 | 04/23/21 09:00 | JNR | TAL CF |
| Total/NA | Analysis | 6020A | | 4 | 314644 | 04/30/21 14:11 | SAD | TAL CF |
| Total/NA | Prep | 7470A | | | 313952 | 04/26/21 14:48 | HED | TAL CF |
| Total/NA | Analysis | 7470A | | 1 | 314137 | 04/27/21 14:20 | HED | TAL CF |
| Total/NA | Analysis | SM 2540C | | 1 | 313757 | 04/23/21 11:07 | ARG | TAL CF |
| Total/NA | Analysis | SM 4500 H+ B | | 1 | 313499 | 04/21/21 17:35 | AJW | TAL CF |
| Total/NA | Analysis | Field Sampling | | 1 | 313875 | 04/20/21 07:45 | SLD | TAL CF |

Client Sample ID: MW-309

Lab Sample ID: 310-204849-11

Date Collected: 04/19/21 10:20

Matrix: Water

Date Received: 04/21/21 16:40

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Analysis | 9056A | | 5 | 314245 | 04/27/21 12:26 | JNR | TAL CF |
| Total/NA | Prep | 3010A | | | 313650 | 04/23/21 09:00 | JNR | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 314445 | 04/29/21 21:08 | SAD | TAL CF |
| Total/NA | Prep | 3010A | | | 313650 | 04/23/21 09:00 | JNR | TAL CF |
| Total/NA | Analysis | 6020A | | 4 | 314644 | 04/30/21 14:13 | SAD | TAL CF |
| Total/NA | Prep | 7470A | | | 313952 | 04/26/21 14:48 | HED | TAL CF |
| Total/NA | Analysis | 7470A | | 1 | 314137 | 04/27/21 14:22 | HED | TAL CF |
| Total/NA | Analysis | SM 2540C | | 1 | 313725 | 04/23/21 09:11 | ARG | TAL CF |
| Total/NA | Analysis | SM 4500 H+ B | | 1 | 313499 | 04/21/21 17:15 | AJW | TAL CF |
| Total/NA | Analysis | Field Sampling | | 1 | 313875 | 04/19/21 10:20 | SLD | TAL CF |

Client Sample ID: MW-310

Lab Sample ID: 310-204849-12

Date Collected: 04/19/21 07:30

Matrix: Water

Date Received: 04/21/21 16:40

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Analysis | 9056A | | 5 | 314245 | 04/27/21 12:42 | JNR | TAL CF |
| Total/NA | Prep | 3010A | | | 313650 | 04/23/21 09:00 | JNR | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 314445 | 04/29/21 21:13 | SAD | TAL CF |
| Total/NA | Prep | 3010A | | | 313650 | 04/23/21 09:00 | JNR | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 314644 | 04/30/21 14:18 | SAD | TAL CF |
| Total/NA | Prep | 7470A | | | 313952 | 04/26/21 14:48 | HED | TAL CF |
| Total/NA | Analysis | 7470A | | 1 | 314137 | 04/27/21 14:36 | HED | TAL CF |
| Total/NA | Analysis | SM 2540C | | 1 | 313725 | 04/23/21 09:11 | ARG | TAL CF |
| Total/NA | Analysis | SM 4500 H+ B | | 1 | 313499 | 04/21/21 17:16 | AJW | TAL CF |
| Total/NA | Analysis | Field Sampling | | 1 | 313875 | 04/19/21 07:30 | SLD | TAL CF |

Lab Chronicle

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-204849-1

Client Sample ID: MW-311

Lab Sample ID: 310-204849-14

Date Collected: 04/19/21 08:50

Matrix: Water

Date Received: 04/21/21 16:40

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Analysis | 9056A | | 5 | 314245 | 04/27/21 12:57 | JNR | TAL CF |
| Total/NA | Prep | 3010A | | | 313650 | 04/23/21 09:00 | JNR | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 314445 | 04/29/21 21:16 | SAD | TAL CF |
| Total/NA | Prep | 3010A | | | 313650 | 04/23/21 09:00 | JNR | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 314644 | 04/30/21 14:21 | SAD | TAL CF |
| Total/NA | Prep | 7470A | | | 313952 | 04/26/21 14:48 | HED | TAL CF |
| Total/NA | Analysis | 7470A | | 1 | 314137 | 04/27/21 14:38 | HED | TAL CF |
| Total/NA | Analysis | SM 2540C | | 1 | 313725 | 04/23/21 09:11 | ARG | TAL CF |
| Total/NA | Analysis | SM 4500 H+ B | | 1 | 313499 | 04/21/21 17:30 | AJW | TAL CF |
| Total/NA | Analysis | Field Sampling | | 1 | 313875 | 04/19/21 08:50 | SLD | TAL CF |

Client Sample ID: MW-312

Lab Sample ID: 310-204849-15

Date Collected: 04/19/21 20:15

Matrix: Water

Date Received: 04/21/21 16:40

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Analysis | 9056A | | 5 | 314245 | 04/27/21 13:44 | JNR | TAL CF |
| Total/NA | Prep | 3010A | | | 313650 | 04/23/21 09:00 | JNR | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 314445 | 04/29/21 21:18 | SAD | TAL CF |
| Total/NA | Prep | 3010A | | | 313650 | 04/23/21 09:00 | JNR | TAL CF |
| Total/NA | Analysis | 6020A | | 4 | 314644 | 04/30/21 14:24 | SAD | TAL CF |
| Total/NA | Prep | 7470A | | | 313952 | 04/26/21 14:48 | HED | TAL CF |
| Total/NA | Analysis | 7470A | | 1 | 314137 | 04/27/21 14:40 | HED | TAL CF |
| Total/NA | Analysis | SM 2540C | | 1 | 313725 | 04/23/21 09:11 | ARG | TAL CF |
| Total/NA | Analysis | SM 4500 H+ B | | 1 | 313499 | 04/21/21 17:24 | AJW | TAL CF |
| Total/NA | Analysis | Field Sampling | | 1 | 313875 | 04/19/21 20:15 | SLD | TAL CF |

Client Sample ID: MW-313

Lab Sample ID: 310-204849-16

Date Collected: 04/19/21 18:20

Matrix: Water

Date Received: 04/21/21 16:40

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Analysis | 9056A | | 5 | 314245 | 04/27/21 14:00 | JNR | TAL CF |
| Total/NA | Prep | 3010A | | | 313650 | 04/23/21 09:00 | JNR | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 314445 | 04/29/21 21:21 | SAD | TAL CF |
| Total/NA | Prep | 3010A | | | 313650 | 04/23/21 09:00 | JNR | TAL CF |
| Total/NA | Analysis | 6020A | | 7 | 314644 | 04/30/21 14:37 | SAD | TAL CF |
| Total/NA | Prep | 7470A | | | 313952 | 04/26/21 14:48 | HED | TAL CF |
| Total/NA | Analysis | 7470A | | 1 | 314137 | 04/27/21 14:42 | HED | TAL CF |
| Total/NA | Analysis | SM 2540C | | 1 | 313725 | 04/23/21 09:11 | ARG | TAL CF |
| Total/NA | Analysis | SM 4500 H+ B | | 1 | 313499 | 04/21/21 17:33 | AJW | TAL CF |
| Total/NA | Analysis | Field Sampling | | 1 | 313875 | 04/19/21 18:20 | SLD | TAL CF |

Lab Chronicle

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-204849-1

Client Sample ID: MW-313A

Lab Sample ID: 310-204849-17

Date Collected: 04/19/21 18:55

Matrix: Water

Date Received: 04/21/21 16:40

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Analysis | 9056A | | 5 | 314245 | 04/27/21 14:15 | JNR | TAL CF |
| Total/NA | Prep | 3010A | | | 313650 | 04/23/21 09:00 | JNR | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 314445 | 04/29/21 21:34 | SAD | TAL CF |
| Total/NA | Prep | 7470A | | | 313952 | 04/26/21 14:48 | HED | TAL CF |
| Total/NA | Analysis | 7470A | | 1 | 314137 | 04/27/21 14:44 | HED | TAL CF |
| Total/NA | Analysis | SM 2540C | | 1 | 313725 | 04/23/21 09:11 | ARG | TAL CF |
| Total/NA | Analysis | SM 4500 H+ B | | 1 | 313499 | 04/21/21 17:26 | AJW | TAL CF |
| Total/NA | Analysis | Field Sampling | | 1 | 313875 | 04/19/21 18:55 | SLD | TAL CF |

Client Sample ID: Field Blank

Lab Sample ID: 310-204849-18

Date Collected: 04/20/21 15:00

Matrix: Water

Date Received: 04/21/21 16:40

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Analysis | 9056A | | 5 | 314245 | 04/27/21 14:31 | JNR | TAL CF |
| Total/NA | Prep | 3010A | | | 313650 | 04/23/21 09:00 | JNR | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 314445 | 04/29/21 21:36 | SAD | TAL CF |
| Total/NA | Prep | 7470A | | | 313952 | 04/26/21 14:48 | HED | TAL CF |
| Total/NA | Analysis | 7470A | | 1 | 314137 | 04/27/21 14:46 | HED | TAL CF |
| Total/NA | Analysis | SM 2540C | | 1 | 313757 | 04/23/21 11:07 | ARG | TAL CF |
| Total/NA | Analysis | SM 4500 H+ B | | 1 | 313499 | 04/21/21 17:39 | AJW | TAL CF |

Client Sample ID: MW-310A

Lab Sample ID: 310-204849-19

Date Collected: 04/20/21 16:45

Matrix: Water

Date Received: 04/21/21 16:40

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Analysis | 9056A | | 5 | 314245 | 04/27/21 14:46 | JNR | TAL CF |
| Total/NA | Prep | 3010A | | | 313650 | 04/23/21 09:00 | JNR | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 314445 | 04/29/21 21:39 | SAD | TAL CF |
| Total/NA | Prep | 7470A | | | 313952 | 04/26/21 14:49 | HED | TAL CF |
| Total/NA | Analysis | 7470A | | 1 | 314137 | 04/27/21 14:48 | HED | TAL CF |
| Total/NA | Analysis | SM 2540C | | 1 | 313757 | 04/23/21 11:07 | ARG | TAL CF |
| Total/NA | Analysis | SM 4500 H+ B | | 1 | 313628 | 04/22/21 14:53 | AJW | TAL CF |
| Total/NA | Analysis | Field Sampling | | 1 | 313875 | 04/20/21 16:45 | SLD | TAL CF |

Laboratory References:

TAL CF = Eurofins TestAmerica, Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

Accreditation/Certification Summary

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-204849-1

Laboratory: Eurofins TestAmerica, Cedar Falls

The accreditations/certifications listed below are applicable to this report.

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| Iowa | State | 007 | 12-01-21 |

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Method Summary

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-204849-1

| Method | Method Description | Protocol | Laboratory |
|----------------|-------------------------------|----------|------------|
| 9056A | Anions, Ion Chromatography | SW846 | TAL CF |
| 6020A | Metals (ICP/MS) | SW846 | TAL CF |
| 7470A | Mercury (CVAA) | SW846 | TAL CF |
| SM 2540C | Solids, Total Dissolved (TDS) | SM | TAL CF |
| SM 4500 H+ B | pH | SM | TAL CF |
| Field Sampling | Field Sampling | EPA | TAL CF |
| 3010A | Preparation, Total Metals | SW846 | TAL CF |
| 7470A | Preparation, Mercury | SW846 | TAL CF |

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CF = Eurofins TestAmerica, Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401



310-204849 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

| | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| Client Information | | |
| Client: <u>SCS</u> | | |
| City/State: <small>CITY</small> | <small>STATE</small> | Project: <u>Burlington Gen.</u> |
| Receipt Information | | |
| Date/Time Received: <small>DATE</small> | <u>4/21/21</u> | <small>TIME</small> <u>1640</u> Received By: <u>Sjt</u> |
| Delivery Type: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input checked="" type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____ | | |
| Condition of Cooler/Containers | | |
| Sample(s) received in Cooler? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If yes: Cooler ID: <u>AA-32</u> |
| Multiple Coolers? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If yes: Cooler # <u>1</u> of <u>4</u> |
| Cooler Custody Seals Present? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If yes: Cooler custody seals intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| Sample Custody Seals Present? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Trip Blank Present? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If yes: Which VOA samples are in cooler? ↓ |
| <u>MW-304, MW 311, MW 313, MW 313A, MW 302</u> | | |
| Temperature Record | | |
| Coolant: <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE | | |
| Thermometer ID: <u>N</u> | Correction Factor (°C): <u>0</u> | |
| • Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature | | |
| Uncorrected Temp (°C): <u>0.9</u> | Corrected Temp (°C): <u>0.9</u> | |
| • Sample Container Temperature | | |
| Container(s) used: | <u>CONTAINER 1</u> | <u>CONTAINER 2</u> |
| Uncorrected Temp (°C): | | |
| Corrected Temp (°C): | | |
| Exceptions Noted | | |
| 1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| 2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| NOTE: If yes, contact PM before proceeding. If no, proceed with login | | |
| Additional Comments | | |
| | | |
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Environment Testing
TestAmerica

Place COC scanning label
here

Cooler/Sample Receipt and Temperature Log Form

| | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|---------------------------------|
| Client Information | | | |
| Client: <u>SCS</u> | | | |
| City/State: | CITY <u>Clive</u> | STATE <u>IA</u> | Project: <u>Burlington Gen.</u> |
| Receipt Information | | | |
| Date/Time Received: | DATE <u>4/21/21</u> | TIME <u>1040</u> | Received By: <u>SA</u> |
| Delivery Type: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee | | | |
| <input checked="" type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____ | | | |
| Condition of Cooler/Containers | | | |
| Sample(s) received in Cooler? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If yes: Cooler ID: <u>AC-22</u> | |
| Multiple Coolers? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If yes: Cooler # <u>2</u> of <u>4/5</u> | |
| Cooler Custody Seals Present? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If yes: Cooler custody seals intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| Sample Custody Seals Present? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No | |
| Trip Blank Present? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If yes: Which VOA samples are in cooler? ↓ | |
| <u>MW-302A MW301 MW 312 MW309</u> | | | |
| <u>MW-310</u> | | | |
| Temperature Record | | | |
| Coolant: | <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE | | |
| Thermometer ID: | <u>N</u> | Correction Factor (°C): <u>0</u> | |
| • Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature | | | |
| Uncorrected Temp (°C): | <u>1.1</u> | Corrected Temp (°C): <u>1.1</u> | |
| • Sample Container Temperature | | | |
| Container(s) used: | <u>CONTAINER 1</u> | <u>CONTAINER 2</u> | |
| Uncorrected Temp (°C): | | | |
| Corrected Temp (°C): | | | |
| Exceptions Noted | | | |
| 1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No | | | |
| a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No | | | |
| 2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No | | | |
| NOTE: If yes, contact PM before proceeding. If no, proceed with login | | | |
| Additional Comments | | | |
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| | | | |

Document: CF-LG-WI-002
Revision: 25
Date: 06/17/2019

Eurofins TestAmerica, Cedar Falls

General temperature criteria is 0 to 6°C
Bacteria temperature criteria is 0 to 10°C

Cooler/Sample Receipt and Temperature Log Form

| Client Information | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| Client: <u>SCS</u> | | |
| City/State: <u>Clive IA</u> | Project: <u>Burlington Gen</u> | |
| Receipt Information | | |
| Date/Time Received: <u>4/21/21 1640</u> | Received By: <u>CB</u> | |
| Delivery Type: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input checked="" type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____ | | |
| Condition of Cooler/Containers | | |
| Sample(s) received in Cooler? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If yes: Cooler ID: <u>AC10</u> |
| Multiple Coolers? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If yes: Cooler # <u>3</u> of <u>4</u> |
| Cooler Custody Seals Present? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If yes: Cooler custody seals intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| Sample Custody Seals Present? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Trip Blank Present? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If yes: Which VOA samples are in cooler? ↓ |
| <u>MW-303, Field Blank</u> | | |
| <u>MSjt 4/21/21</u> | | |
| Temperature Record | | |
| Coolant: <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE | | |
| Thermometer ID: <u>Q</u> | Correction Factor (°C): <u>0.0</u> | |
| • Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature | | |
| Uncorrected Temp (°C): <u>1.6</u> | Corrected Temp (°C): <u>1.6</u> | |
| • Sample Container Temperature | | |
| Container(s) used: | CONTAINER 1 <u>1 L NT bottle</u> | CONTAINER 2 |
| Uncorrected Temp (°C): | | |
| Corrected Temp (°C): | | |
| Exceptions Noted | | |
| 1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| 2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| NOTE: If yes, contact PM before proceeding. If no, proceed with login | | |
| Additional Comments | | |
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Cooler/Sample Receipt and Temperature Log Form

| Client Information | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| Client: <u>SCS</u> | | |
| City/State: <u>Clive</u> <small>CITY</small> <u>IA</u> <small>STATE</small> | Project: <u>Burlington Gen.</u> | |
| Receipt Information | | |
| Date/Time Received: <u>4/2/21</u> <small>DATE</small> <u>1640</u> <small>TIME</small> | Received By: <u>SJT</u> | |
| Delivery Type: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input checked="" type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____ | | |
| Condition of Cooler/Containers | | |
| Sample(s) received in Cooler? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If yes: Cooler ID: <u>AB-33</u> |
| Multiple Coolers? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If yes: Cooler # <u>4</u> of <u>45</u> <u>4/2/21</u> |
| Cooler Custody Seals Present? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If yes: Cooler custody seals intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| Sample Custody Seals Present? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Trip Blank Present? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If yes: Which VOA samples are in cooler? ↓ |
| <u>MW305, MW306 MW307A</u> | | |
| <u>MW307 MW308</u> | | |
| Temperature Record | | |
| Coolant: | <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE | |
| Thermometer ID: <u>N</u> | Correction Factor (°C): <u>0</u> | |
| • Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature. | | |
| Uncorrected Temp (°C): <u>1.6</u> | Corrected Temp (°C): <u>1.6</u> | |
| • Sample Container Temperature | | |
| Container(s) used: | <u>CONTAINER 1</u> | <u>CONTAINER 2</u> |
| Uncorrected Temp (°C): | | |
| Corrected Temp (°C): | | |
| Exceptions Noted | | |
| 1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| 2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| NOTE: If yes, contact PM before proceeding. If no, proceed with login | | |
| Additional Comments | | |
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Place COC scanning label here

Cooler/Sample Receipt and Temperature Log Form

| | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| Client Information | | |
| Client: <u>SCS Engineers</u> | | |
| City/State: <u>CAVE</u> <small>CITY</small> | <u>IA</u> <small>STATE</small> | Project: <u>Burlington GenStation</u> |
| Receipt Information | | |
| Date/Time Received: <u>4/22/21</u> <small>DATE</small> <u>10:40</u> <small>TIME</small> | Received By: <u>CS</u> | |
| Delivery Type: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input checked="" type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____ | | |
| Condition of Cooler/Containers | | |
| Sample(s) received in Cooler? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If yes: Cooler ID: <u>4/22/21</u> |
| Multiple Coolers? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If yes: Cooler # <u>2</u> of <u>25</u> |
| Cooler Custody Seals Present? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If yes: Cooler custody seals intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| Sample Custody Seals Present? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Trip Blank Present? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If yes: Which VOA samples are in cooler? ↓ |
| Temperature Record | | |
| Coolant: | <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE | |
| Thermometer ID: <u>Q</u> | Correction Factor (°C): <u>0.0</u> | |
| • Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature. | | |
| Uncorrected Temp (°C): <u>1.4</u> | Corrected Temp (°C): <u>1.4</u> | |
| • Sample Container Temperature | | |
| Container(s) used: | <u>CONTAINER 1</u> | <u>CONTAINER 2</u> |
| Uncorrected Temp (°C): | | |
| Corrected Temp (°C): | | |
| Exceptions Noted | | |
| 1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| 2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| NOTE: If yes, contact PM before proceeding. If no, proceed with login | | |
| Additional Comments | | |
| <u>Field blank MW-365, MW-310A</u> | | |
| <u>1L NT - Radium 226 on label</u> | | |

Chain of Custody Record



| Client Information | | Sampler | Lab PM: | Carrier Tracking No(s): | COC No: | | | | | | | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------|------------------|------------------------------|--------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|----------------------------|-------------------------|----------------------------------------------|------------------|------------------|----------------------------|
| Tanten Buszka | | 269-443-0855 | Fredrick, Sandie | | 310-60013-14654.1 | | | | | | | | |
| Company: SCS Engineers | | | | | | | | | | | | | |
| Address: 8450 Hickman Road Suite Z7 | | State of Origin: | | Page 1 of 2 | | | | | | | | | |
| City: Clive | | E-Mail: sandra.fredrick@eurofinsset.com | | Job #: | | | | | | | | | |
| State, Zip: IA, 50325 | | Analysis Requested | | | | | | | | | | | |
| Phone: 269-443-0855 | | Due Date Requested: | | Total Number of Containers | | | | | | | | | |
| Email: tbuszka@scsengineers.com | | TAT Requested (days): | | | | | | | | | | | |
| Project Name: Burlington Gen Station 25221066 | | Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | Preservation Codes: | | | | | | | | | |
| Site: B45 | | PO #: 25221066 | | A - HCL | | | | | | | | | |
| | | WO #: | | B - NaOH | | | | | | | | | |
| | | Project #: | | C - Zn Acetate | | | | | | | | | |
| | | SSOW#: | | D - Nitric Acid | | | | | | | | | |
| Sample Identification | | Sample Date | Sample Time | Sample Type (C=Comp, G=grab) | Matrix (W=water, S=solid, O=wetsoil, BT=tissue, A=air) | Preservation Code: | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 502A - Metals - Hg (14) | 2540C - Calc, 9056A - ORGM, 28D, SM4500 - H+ | 503 - Radium 226 | 504 - Radium 228 | Special Instructions/Note: |
| MW-301 | | 4-14-21 | 11:40 | G | Water | | X | X | X | X | X | X | |
| MW-302 | | 4-14-21 | 13:50 | G | Water | | X | X | X | X | X | X | |
| MW-302A | | 4-14-21 | 13:15 | G | Water | | X | X | X | X | X | X | |
| MW-303 | | 4-14-21 | 15:55 | G | Water | | X | X | X | X | X | X | |
| MW-304 | | 4-14-21 | 17:00 | G | Water | | X | X | X | X | X | X | |
| MW-305 | | 4-20-21 | 14:00 | G | Water | | X | X | X | X | X | X | |
| MW-306 | | 4-14-21 | 12:20 | G | Water | | X | X | X | X | X | X | |
| MW-307 | | 4-20-21 | 10:30 | G | Water | | X | X | X | X | X | X | |
| MW-307A | | 4-20-21 | 9:35 | G | Water | | X | X | X | X | X | X | |
| MW-308 | | 4-20-21 | 7:45 | G | Water | | X | X | X | X | X | X | |
| MW-309 | | 4-19-21 | 10:20 | G | Water | | X | X | X | X | X | X | |
| Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological | | | | | | Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months | | | | | | | |
| Deliverable Requested: I, II, III, IV, Other (specify) | | | | | | Special Instructions/QC Requirements: | | | | | | | |
| Empty Kit Relinquished by | | | | | | Method of Shipment: | | | | | | | |
| Reinquired by: Tanten Buszka | | | | | | Date: _____ | | | | | | | |
| Reinquired by: _____ | | | | | | Received by: _____ | | | | | | | |
| Reinquired by: _____ | | | | | | Date/Time: 4/21/21 1640 | | | | | | | |
| Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No | | | | | | Cooler Temperature(s) °C and Other Remains: _____ | | | | | | | |



Chain of Custody Record

| | | | | | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|----------------------------------|
| Client Information | | Sampler: Tantien Buszka | | Lab P.M.: Fredrick, Sandie | Carrier Tracking No(s): | COC No: 310-60013-14654.2 |
| Client Contact: Tantien Buszka | | Phone: 269.493.0855 | E-Mail: sandra.fredrick@eurofinsel.com | State of Origin: | Page: Page 2 of 2 | |
| Company: SCS Engineers | | PWSID: | | Job #: _____ | | |
| Address: 8450 Hickman Road Suite 27 | | Due Date Requested: | | Preservation Codes: | | |
| City: Clive | | TAT Requested (days): | | A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: _____ | | |
| State, Zip: IA, 50325 | | Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | M - Hexane N - None O - AshNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - NCAAA W - pH 4-5 Z - other (specify) | | |
| Phone: 269.493.0855 | | PO #: 25221066 | | Total Number of containers: _____ | | |
| Email: tbuszka@scsengineers.com | | WOC #: _____ | | Special Instructions/Note: - See email from Meg/Sandy | | |
| Project Name: Burlington Gen Station 25221066 | | Project #: 31011020 | | Special Instructions/Note: _____ | | |
| Site: Bus | | SSOW#: _____ | | Special Instructions/Note: _____ | | |
| Sample Identification | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (W=water, S=solid, O=oil, M=metal) | Field Filtered Sample (Yes or No) | Special Instructions/Note |
| MW-310 | 4-19-21 | 7:50 | G | Water | Yes | |
| MW-310A | 4-20-21 | 16:45 | G | Water | Yes | |
| MW-311 | 4-19-21 | 8:50 | G | Water | Yes | |
| MW-312 | 4-19-21 | 20:15 | G | Water | Yes | |
| MW-313 | 4-19-21 | 18:20 | G | Water | Yes | |
| MW-313A | 4-19-21 | 18:55 | G | Water | Yes | |
| Field Blank | 4-20-21 | 15:00 | G | Water | Yes | |
| <p>Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological</p> <p>Deliverable Requested: I, II, III, IV, Other (specify)</p> <p>Empty Kit Relinquished by: _____ Date: _____ Time: _____</p> <p>Relinquished by: Tantien Buszka Date/Time: 4-21-21 10:15 Company: SCS</p> <p>Relinquished by: _____ Date/Time: _____ Company: _____</p> <p>Relinquished by: _____ Date/Time: _____ Company: _____</p> <p>Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Custody Seal No.: _____</p> <p>Cooler Temperature(s) °C and Other Remarks: _____</p> | | | | | | |



Table 1. Sampling Points and Parameters - CCR Rule Sampling Program Assessment Monitoring
Groundwater Monitoring - Burlington Generating Station / SCS Engineers Project #25221066

| Parameter | MW-301 | MW-302 | MW-302A | MW-303 | MW-304 | MW-305 | MW-306 | MW-307 | MW-307A | MW-308 | MW-309 | MW-310 | MW-310A | MW-311 | MW-312 | MW-313 | MW-313A | Field Blank | TOTAL |
|------------------------------------------------------|--------|--------|---------|--------|--------|--------|--------|--------|---------|--------|--------|--------|---------|--------|--------|--------|---------|-------------|-------|
| Appendix III Parameters | | | | | | | | | | | | | | | | | | | |
| Boron | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 18 |
| Calcium | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 18 |
| Chloride | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 18 |
| Fluoride | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 18 |
| pH | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 18 |
| Sulfate | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 18 |
| TDS | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 18 |
| Appendix IV Parameters | | | | | | | | | | | | | | | | | | | |
| Antimony | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 18 |
| Arsenic | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 18 |
| Barium | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 18 |
| Beryllium | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 18 |
| Cadmium | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 18 |
| Chromium | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 18 |
| Cobalt | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 18 |
| Fluoride | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 18 |
| Lead | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 18 |
| Lithium | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 18 |
| Mercury | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 18 |
| Molybdenum | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 18 |
| Selenium | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 18 |
| Thallium | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 18 |
| Radium | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 18 |
| Field Parameters | | | | | | | | | | | | | | | | | | | |
| Ferrous Iron (ChemMetrics) | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 17 |
| Sulfide (ChemMetrics) | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 17 |
| Groundwater Elevation | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 17 |
| Well Depth | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 17 |
| pH (field) | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 17 |
| Specific Conductance | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 17 |
| Dissolved Oxygen | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 17 |
| ORP | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 17 |
| Temperature | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 17 |
| Turbidity | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 17 |
| Color | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 17 |
| Odor | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 17 |
| Additional Lab Parameters - REPORT SEPARATELY | | | | | | | | | | | | | | | | | | | |
| Bicarbonate (total) | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 17 |
| Carbonate (total) | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 17 |
| Iron (total) | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 17 |
| Magnesium (total) | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 17 |
| Manganese (total) | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 17 |
| Potassium (total) | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 17 |
| Sodium (total) | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 17 |
| Iron (filtered) | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 10 |
| Lithium (filtered) | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 17 |
| Manganese (filtered) | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 12 |
| Molybdenum (filtered) | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 12 |

Notes:

I:\25221066.00\Data and Calculations\Field Work Requests\Table_1_BGS_CCR_Rule_Sampling_2104.xls\$Sheet1



Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-204849-1

Login Number: 204849

List Source: Eurofins TestAmerica, Cedar Falls

List Number: 1

Creator: Homolar, Dana J

| Question | Answer | Comment |
|-----------------------------------------------------------------------------------------------------|--------|---------|
| Radioactivity wasn't checked or is \leq background as measured by a survey meter. | N/A | |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | N/A | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

Table 1. Groundwater Monitoring Results - Field Parameters
Burlington Generating Station / SCS Engineers Project #25221066.00
April 2021

| Sample | Sample Date/Time | Temperature (Deg. C) | pH (Std. Units) | Dissolved Oxygen (mg/L) | Specific Conductivity (µmhos/cm) | ORP (mV) | Turbidity | Groundwater Elevation (amsl) |
|---------|------------------|----------------------|-----------------|-------------------------|----------------------------------|----------|-----------|------------------------------|
| MW-301 | 4/19/2021 11:40 | 12.3 | 7.03 | 1.61 | 1,760 | -162.4 | 3.82 | 522.87 |
| MW-302 | 4/19/2021 13:50 | 12.0 | 8.15 | 0.07 | 1,169 | -225.8 | 4.07 | 522.27 |
| MW-302A | 4/19/2021 13:15 | 12.7 | 7.34 | 0.18 | 1,026 | -150.2 | 2.94 | 522.25 |
| MW-303 | 4/19/2021 15:55 | 13.2 | 7.25 | 0.19 | 995 | -144.8 | 4.35 | 522.13 |
| MW-304 | 4/19/2021 17:00 | 13.2 | 8.32 | 0.07 | 935 | -257.8 | 3.34 | 522.24 |
| MW-305 | 4/20/2021 14:00 | 14.7 | 7.30 | 0.11 | 839 | -135.7 | 1.97 | 522.31 |
| MW-306 | 4/19/2021 12:20 | 13.8 | 10.02 | 0.34 | 442 | -188.0 | 0.02 | 522.52 |
| MW-307 | 4/20/2021 10:30 | 13.9 | 10.02 | 0.08 | 546 | -242.4 | 2.38 | 522.89 |
| MW-307A | 4/20/2021 9:35 | 13.7 | 7.74 | 0.13 | 566 | -167.3 | 2.89 | 522.39 |
| MW-308 | 4/20/2021 7:45 | 14.1 | 9.56 | 0.08 | 690 | -172.9 | 1.77 | 522.57 |
| MW-309 | 4/19/2021 10:20 | 13.2 | 7.26 | 0.16 | 1,017 | -170.7 | 21.2 | 522.72 |
| MW-310 | 4/19/2021 7:30 | 10.8 | 7.21 | 0.17 | 735 | -193.2 | 2.57 | 525.46 |
| MW-310A | 4/20/2021 10:45 | 11.7 | 7.41 | 3.69 | 1,042 | 55.0 | NM | 521.12 |
| MW-311 | 4/19/2021 8:50 | 10.9 | 7.16 | 0.48 | 1,473 | -158.6 | 4.56 | 523.89 |
| MW-312 | 4/19/2021 20:15 | 13.7 | 7.22 | 0.12 | 875 | -162.9 | 8.82 | 522.20 |
| MW-313 | 4/19/2021 18:20 | 14.5 | 7.09 | 0.21 | 1,165 | -152.8 | 4.54 | 522.23 |
| MW-313A | 4/19/2021 18:55 | 14.2 | 7.58 | 0.09 | 1,023 | -172.1 | 1.71 | 522.11 |

Abbreviations:

mg/L = milligrams per liter
mV = millivolts

amsl = above mean sea level
µmhos/cm = micromohs per cm

-- = Not Applicable
NM = not measured

Created by: MDB
Last revision by: JR
Checked by: RM
Scient QA/QC:

Date: 6/11/2019
Date: 4/21/2021
Date: 4/23/2021
Date:

C:\Users\FredrickS\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\GGSB4ECT\[2104 - BGS_CCR_Field.xlsx]GW Field Parameter

ANALYTICAL REPORT

Eurofins TestAmerica, Cedar Falls
3019 Venture Way
Cedar Falls, IA 50613
Tel: (319)277-2401

Laboratory Job ID: 310-204849-2
Client Project/Site: Burlington Gen Station 25221066

For:
SCS Engineers
2830 Dairy Drive
Madison, Wisconsin 53718

Attn: Meghan Blodgett



*Authorized for release by:
5/20/2021 4:49:12 PM*

Sandie Fredrick, Project Manager II
(920)261-1660
sandra.fredrick@eurofinset.com

LINKS

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results through
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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Case Narrative

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-204849-2

Job ID: 310-204849-2

Laboratory: Eurofins TestAmerica, Cedar Falls

Narrative

Job Narrative 310-204849-2

Comments

No additional comments.

Receipt

The samples were received on 4/21/2021 4:40 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 5 coolers at receipt time were 0.9° C, 1.1° C, 1.4° C, 1.6° C and 1.6° C.

RAD

Methods 903.0, 9315: Radium-226 Batch 507302 Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. MW-307 (310-204849-8), MW-307A (310-204849-9), MW-308 (310-204849-10), MW-309 (310-204849-11), MW-310 (310-204849-12), MW-311 (310-204849-14), MW-312 (310-204849-15), MW-313 (310-204849-16), MW-313A (310-204849-17), Field Blank (310-204849-18), MW-310A (310-204849-19), (LCS 160-507302/1-A), (LCSD 160-507302/2-A) and (MB 160-507302/23-A)

Methods 903.0, 9315: Radium-226 prep batch 160-507512: Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. MW-301 (310-204849-1), MW-302 (310-204849-2), MW-302A (310-204849-3), MW-303 (310-204849-4), MW-304 (310-204849-5), MW-305 (310-204849-6), MW-306 (310-204849-7), (LCS 160-507512/1-A), (LCSD 160-507512/2-A) and (MB 160-507512/23-A)

Methods 904.0, 9320: Gross Alpha Beta Batch 160-507306 Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

MW-307 (310-204849-8), MW-307A (310-204849-9), MW-308 (310-204849-10), MW-309 (310-204849-11), MW-310 (310-204849-12), MW-311 (310-204849-14), MW-312 (310-204849-15), MW-313 (310-204849-16), MW-313A (310-204849-17), Field Blank (310-204849-18), MW-310A (310-204849-19), (LCS 160-507306/1-A), (LCSD 160-507306/2-A) and (MB 160-507306/23-A) Methods 904.0, 9320: Radium-228 Batch 507517

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. MW-301 (310-204849-1), MW-302 (310-204849-2), MW-302A (310-204849-3), MW-303 (310-204849-4), MW-304 (310-204849-5), MW-305 (310-204849-6), MW-306 (310-204849-7), (LCS 160-507517/1-A), (LCSD 160-507517/2-A) and (MB 160-507517/23-A)

Method PrecSep_0: Radium 228 Prep batch 160-507306: The following samples were prepared at a reduced aliquot due to Matrix: MW-307 (310-204849-8), MW-307A (310-204849-9), MW-308 (310-204849-10), MW-309 (310-204849-11), MW-311 (310-204849-14), MW-312 (310-204849-15), MW-313 (310-204849-16), MW-313A (310-204849-17) and MW-310A (310-204849-19). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead of a sample duplicate (DUP) to demonstrate batch precision.

Method PrecSep_0: Radium 228 Prep Batch 160-507306: Insufficient sample volume was available to perform a sample duplicate (DUP) for the following samples: MW-310 (310-204849-12) and Field Blank (310-204849-18). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep_0: Ra-228 Prep Batch 160-507517: The following samples were prepared at a reduced aliquot due to Matrix: MW-301 (310-204849-1), MW-302 (310-204849-2), MW-302A (310-204849-3), MW-303 (310-204849-4), MW-304 (310-204849-5), MW-305 (310-204849-6) and MW-306 (310-204849-7). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead of a sample duplicate (DUP) to demonstrate batch precision.

Method PrecSep_0: Ra-228 Prep Batch 160-507517: During the in-growth process, the following samples needed to be filtered due to

Case Narrative

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-204849-2

Job ID: 310-204849-2 (Continued)

Laboratory: Eurofins TestAmerica, Cedar Falls (Continued)

sediment present in the sample: MW-303 (310-204849-4) and MW-305 (310-204849-6). This is an indicator of matrix interference.

Method PrecSep-21: Radium 226 Prep Batch 160-507302: Insufficient sample volume was available to perform a sample duplicate (DUP) for the following samples: MW-310 (310-204849-12) and Field Blank (310-204849-18). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep-21: Radium 226 Prep Batch 160-507302: The following samples were prepared at a reduced aliquot due to Matrix: MW-307 (310-204849-8), MW-307A (310-204849-9), MW-308 (310-204849-10), MW-309 (310-204849-11), MW-311 (310-204849-14), MW-312 (310-204849-15), MW-313 (310-204849-16), MW-313A (310-204849-17) and MW-310A (310-204849-19). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead of a sample duplicate (DUP) to demonstrate batch precision.

Method PrecSep-21: Ra-226 Prep Batch 160-507512: The following samples were prepared at a reduced aliquot due to Matrix: MW-301 (310-204849-1), MW-302 (310-204849-2), MW-302A (310-204849-3), MW-303 (310-204849-4), MW-304 (310-204849-5), MW-305 (310-204849-6) and MW-306 (310-204849-7). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead of a sample duplicate (DUP) to demonstrate batch precision.

Method PrecSep-21: Ra-226 Prep Batch 160-507512: During the in-growth process, the following samples needed to be filtered due to sediment present in the sample: MW-303 (310-204849-4) and MW-305 (310-204849-6). This is an indicator of matrix interference.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.



Sample Summary

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-204849-2

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Asset ID |
|---------------|------------------|--------|----------------|----------------|----------|
| 310-204849-1 | MW-301 | Water | 04/19/21 11:40 | 04/21/21 16:40 | |
| 310-204849-2 | MW-302 | Water | 04/19/21 13:50 | 04/21/21 16:40 | |
| 310-204849-3 | MW-302A | Water | 04/19/21 13:15 | 04/21/21 16:40 | |
| 310-204849-4 | MW-303 | Water | 04/19/21 15:55 | 04/21/21 16:40 | |
| 310-204849-5 | MW-304 | Water | 04/19/21 17:00 | 04/21/21 16:40 | |
| 310-204849-6 | MW-305 | Water | 04/20/21 14:00 | 04/21/21 16:40 | |
| 310-204849-7 | MW-306 | Water | 04/19/21 12:20 | 04/21/21 16:40 | |
| 310-204849-8 | MW-307 | Water | 04/20/21 10:30 | 04/21/21 16:40 | |
| 310-204849-9 | MW-307A | Water | 04/20/21 09:35 | 04/21/21 16:40 | |
| 310-204849-10 | MW-308 | Water | 04/20/21 07:45 | 04/21/21 16:40 | |
| 310-204849-11 | MW-309 | Water | 04/19/21 10:20 | 04/21/21 16:40 | |
| 310-204849-12 | MW-310 | Water | 04/19/21 07:30 | 04/21/21 16:40 | |
| 310-204849-14 | MW-311 | Water | 04/19/21 08:50 | 04/21/21 16:40 | |
| 310-204849-15 | MW-312 | Water | 04/19/21 20:15 | 04/21/21 16:40 | |
| 310-204849-16 | MW-313 | Water | 04/19/21 18:20 | 04/21/21 16:40 | |
| 310-204849-17 | MW-313A | Water | 04/19/21 18:55 | 04/21/21 16:40 | |
| 310-204849-18 | Field Blank | Water | 04/20/21 15:00 | 04/21/21 16:40 | |
| 310-204849-19 | MW-310A | Water | 04/20/21 16:45 | 04/21/21 16:40 | |

Detection Summary

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-204849-2

| | |
|-----------------------------------------|-------------------------------------|
| Client Sample ID: MW-301 | Lab Sample ID: 310-204849-1 |
| <input type="checkbox"/> No Detections. | |
| Client Sample ID: MW-302 | Lab Sample ID: 310-204849-2 |
| <input type="checkbox"/> No Detections. | |
| Client Sample ID: MW-302A | Lab Sample ID: 310-204849-3 |
| <input type="checkbox"/> No Detections. | |
| Client Sample ID: MW-303 | Lab Sample ID: 310-204849-4 |
| <input type="checkbox"/> No Detections. | |
| Client Sample ID: MW-304 | Lab Sample ID: 310-204849-5 |
| <input type="checkbox"/> No Detections. | |
| Client Sample ID: MW-305 | Lab Sample ID: 310-204849-6 |
| <input type="checkbox"/> No Detections. | |
| Client Sample ID: MW-306 | Lab Sample ID: 310-204849-7 |
| <input type="checkbox"/> No Detections. | |
| Client Sample ID: MW-307 | Lab Sample ID: 310-204849-8 |
| <input type="checkbox"/> No Detections. | |
| Client Sample ID: MW-307A | Lab Sample ID: 310-204849-9 |
| <input type="checkbox"/> No Detections. | |
| Client Sample ID: MW-308 | Lab Sample ID: 310-204849-10 |
| <input type="checkbox"/> No Detections. | |
| Client Sample ID: MW-309 | Lab Sample ID: 310-204849-11 |
| <input type="checkbox"/> No Detections. | |
| Client Sample ID: MW-310 | Lab Sample ID: 310-204849-12 |
| <input type="checkbox"/> No Detections. | |
| Client Sample ID: MW-311 | Lab Sample ID: 310-204849-14 |
| <input type="checkbox"/> No Detections. | |
| Client Sample ID: MW-312 | Lab Sample ID: 310-204849-15 |
| <input type="checkbox"/> No Detections. | |
| Client Sample ID: MW-313 | Lab Sample ID: 310-204849-16 |
| <input type="checkbox"/> No Detections. | |
| Client Sample ID: MW-313A | Lab Sample ID: 310-204849-17 |
| <input type="checkbox"/> No Detections. | |

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Cedar Falls

Detection Summary

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-204849-2

Client Sample ID: Field Blank

Lab Sample ID: 310-204849-18

No Detections.

Client Sample ID: MW-310A

Lab Sample ID: 310-204849-19

No Detections.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Cedar Falls

Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-204849-2

Client Sample ID: MW-301
 Date Collected: 04/19/21 11:40
 Date Received: 04/21/21 16:40

Lab Sample ID: 310-204849-1
 Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.774 | | 0.205 | 0.216 | 1.00 | 0.157 | pCi/L | 04/28/21 13:36 | 05/20/21 06:55 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 86.1 | | 40 - 110 | | | | | 04/28/21 13:36 | 05/20/21 06:55 | 1 |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.247 | U | 0.345 | 0.346 | 1.00 | 0.576 | pCi/L | 04/28/21 14:41 | 05/13/21 13:37 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 86.1 | | 40 - 110 | | | | | 04/28/21 14:41 | 05/13/21 13:37 | 1 |
| Y Carrier | 83.7 | | 40 - 110 | | | | | 04/28/21 14:41 | 05/13/21 13:37 | 1 |

Method: Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|--------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Radium 226 and 228 | 1.02 | | 0.401 | 0.408 | 5.00 | 0.576 | pCi/L | | 05/20/21 16:23 | 1 |

Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-204849-2

Client Sample ID: MW-302

Lab Sample ID: 310-204849-2

Date Collected: 04/19/21 13:50

Matrix: Water

Date Received: 04/21/21 16:40

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.493 | | 0.177 | 0.183 | 1.00 | 0.183 | pCi/L | 04/28/21 13:36 | 05/20/21 06:55 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 84.5 | | 40 - 110 | | | | | 04/28/21 13:36 | 05/20/21 06:55 | 1 |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.413 | U | 0.353 | 0.355 | 1.00 | 0.559 | pCi/L | 04/28/21 14:41 | 05/13/21 13:37 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 84.5 | | 40 - 110 | | | | | 04/28/21 14:41 | 05/13/21 13:37 | 1 |
| Y Carrier | 79.3 | | 40 - 110 | | | | | 04/28/21 14:41 | 05/13/21 13:37 | 1 |

Method: Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|--------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Radium 226 and 228 | 0.906 | | 0.395 | 0.399 | 5.00 | 0.559 | pCi/L | | 05/20/21 16:23 | 1 |

Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-204849-2

Client Sample ID: MW-302A

Lab Sample ID: 310-204849-3

Date Collected: 04/19/21 13:15

Matrix: Water

Date Received: 04/21/21 16:40

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.641 | | 0.202 | 0.210 | 1.00 | 0.204 | pCi/L | 04/28/21 13:36 | 05/20/21 06:57 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 80.3 | | 40 - 110 | | | | | 04/28/21 13:36 | 05/20/21 06:57 | 1 |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.755 | | 0.418 | 0.423 | 1.00 | 0.623 | pCi/L | 04/28/21 14:41 | 05/13/21 13:37 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 80.3 | | 40 - 110 | | | | | 04/28/21 14:41 | 05/13/21 13:37 | 1 |
| Y Carrier | 80.4 | | 40 - 110 | | | | | 04/28/21 14:41 | 05/13/21 13:37 | 1 |

Method: Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|--------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Radium 226 and 228 | 1.40 | | 0.464 | 0.472 | 5.00 | 0.623 | pCi/L | | 05/20/21 16:23 | 1 |

Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-204849-2

Client Sample ID: MW-303

Lab Sample ID: 310-204849-4

Date Collected: 04/19/21 15:55

Matrix: Water

Date Received: 04/21/21 16:40

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.866 | | 0.212 | 0.226 | 1.00 | 0.173 | pCi/L | 04/28/21 13:36 | 05/20/21 06:57 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 88.5 | | 40 - 110 | | | | | 04/28/21 13:36 | 05/20/21 06:57 | 1 |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 1.35 | | 0.433 | 0.451 | 1.00 | 0.577 | pCi/L | 04/28/21 14:41 | 05/13/21 13:37 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 88.5 | | 40 - 110 | | | | | 04/28/21 14:41 | 05/13/21 13:37 | 1 |
| Y Carrier | 85.6 | | 40 - 110 | | | | | 04/28/21 14:41 | 05/13/21 13:37 | 1 |

Method: Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|--------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Radium 226 and 228 | 2.21 | | 0.482 | 0.504 | 5.00 | 0.577 | pCi/L | | 05/20/21 16:23 | 1 |

Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-204849-2

Client Sample ID: MW-304

Lab Sample ID: 310-204849-5

Date Collected: 04/19/21 17:00

Matrix: Water

Date Received: 04/21/21 16:40

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.213 | | 0.137 | 0.138 | 1.00 | 0.188 | pCi/L | 04/28/21 13:36 | 05/20/21 06:57 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 81.2 | | 40 - 110 | | | | | 04/28/21 13:36 | 05/20/21 06:57 | 1 |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.486 | U | 0.400 | 0.402 | 1.00 | 0.636 | pCi/L | 04/28/21 14:41 | 05/13/21 13:37 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 81.2 | | 40 - 110 | | | | | 04/28/21 14:41 | 05/13/21 13:37 | 1 |
| Y Carrier | 83.0 | | 40 - 110 | | | | | 04/28/21 14:41 | 05/13/21 13:37 | 1 |

Method: Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|--------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Radium 226 and 228 | 0.699 | | 0.423 | 0.425 | 5.00 | 0.636 | pCi/L | | 05/20/21 16:23 | 1 |

Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-204849-2

Client Sample ID: MW-305

Lab Sample ID: 310-204849-6

Date Collected: 04/20/21 14:00

Matrix: Water

Date Received: 04/21/21 16:40

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.264 | | 0.159 | 0.161 | 1.00 | 0.218 | pCi/L | 04/28/21 13:36 | 05/20/21 06:57 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 76.7 | | 40 - 110 | | | | | 04/28/21 13:36 | 05/20/21 06:57 | 1 |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.496 | U | 0.349 | 0.352 | 1.00 | 0.537 | pCi/L | 04/28/21 14:41 | 05/13/21 13:37 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 76.7 | | 40 - 110 | | | | | 04/28/21 14:41 | 05/13/21 13:37 | 1 |
| Y Carrier | 85.2 | | 40 - 110 | | | | | 04/28/21 14:41 | 05/13/21 13:37 | 1 |

Method: Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|--------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Radium 226 and 228 | 0.761 | | 0.384 | 0.387 | 5.00 | 0.537 | pCi/L | | 05/20/21 16:23 | 1 |

Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-204849-2

Client Sample ID: MW-306

Lab Sample ID: 310-204849-7

Date Collected: 04/19/21 12:20

Matrix: Water

Date Received: 04/21/21 16:40

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.121 | U | 0.135 | 0.136 | 1.00 | 0.220 | pCi/L | 04/28/21 13:36 | 05/20/21 06:57 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 77.9 | | 40 - 110 | | | | | 04/28/21 13:36 | 05/20/21 06:57 | 1 |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.294 | U | 0.353 | 0.355 | 1.00 | 0.584 | pCi/L | 04/28/21 14:41 | 05/13/21 13:37 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 77.9 | | 40 - 110 | | | | | 04/28/21 14:41 | 05/13/21 13:37 | 1 |
| Y Carrier | 80.7 | | 40 - 110 | | | | | 04/28/21 14:41 | 05/13/21 13:37 | 1 |

Method: Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|--------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Radium 226 and 228 | 0.415 | U | 0.378 | 0.380 | 5.00 | 0.584 | pCi/L | | 05/20/21 16:23 | 1 |

Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-204849-2

Client Sample ID: MW-307

Lab Sample ID: 310-204849-8

Date Collected: 04/20/21 10:30

Matrix: Water

Date Received: 04/21/21 16:40

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.0114 | U | 0.0826 | 0.0826 | 1.00 | 0.165 | pCi/L | 04/27/21 11:08 | 05/19/21 07:05 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 85.2 | | 40 - 110 | | | | | 04/27/21 11:08 | 05/19/21 07:05 | 1 |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|---------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | -0.0100 | U | 0.290 | 0.290 | 1.00 | 0.529 | pCi/L | 04/27/21 11:43 | 05/12/21 12:40 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 85.2 | | 40 - 110 | | | | | 04/27/21 11:43 | 05/12/21 12:40 | 1 |
| Y Carrier | 86.0 | | 40 - 110 | | | | | 04/27/21 11:43 | 05/12/21 12:40 | 1 |

Method: Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|--------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Radium 226 and 228 | 0.0114 | U | 0.302 | 0.302 | 5.00 | 0.529 | pCi/L | | 05/20/21 16:23 | 1 |

Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-204849-2

Client Sample ID: MW-307A

Lab Sample ID: 310-204849-9

Date Collected: 04/20/21 09:35

Matrix: Water

Date Received: 04/21/21 16:40

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.133 | U | 0.111 | 0.112 | 1.00 | 0.166 | pCi/L | 04/27/21 11:08 | 05/19/21 07:05 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 91.5 | | 40 - 110 | | | | | 04/27/21 11:08 | 05/19/21 07:05 | 1 |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.175 | U | 0.306 | 0.306 | 1.00 | 0.520 | pCi/L | 04/27/21 11:43 | 05/12/21 12:40 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 91.5 | | 40 - 110 | | | | | 04/27/21 11:43 | 05/12/21 12:40 | 1 |
| Y Carrier | 87.1 | | 40 - 110 | | | | | 04/27/21 11:43 | 05/12/21 12:40 | 1 |

Method: Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|--------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Radium 226 and 228 | 0.307 | U | 0.326 | 0.326 | 5.00 | 0.520 | pCi/L | | 05/20/21 16:23 | 1 |

Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-204849-2

Client Sample ID: MW-308

Lab Sample ID: 310-204849-10

Date Collected: 04/20/21 07:45

Matrix: Water

Date Received: 04/21/21 16:40

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|---------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | -0.0307 | U | 0.0575 | 0.0576 | 1.00 | 0.145 | pCi/L | 04/27/21 11:08 | 05/19/21 07:05 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 87.9 | | 40 - 110 | | | | | 04/27/21 11:08 | 05/19/21 07:05 | 1 |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.0966 | U | 0.336 | 0.337 | 1.00 | 0.586 | pCi/L | 04/27/21 11:43 | 05/12/21 12:40 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 87.9 | | 40 - 110 | | | | | 04/27/21 11:43 | 05/12/21 12:40 | 1 |
| Y Carrier | 87.5 | | 40 - 110 | | | | | 04/27/21 11:43 | 05/12/21 12:40 | 1 |

Method: Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|--------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Radium 226 and 228 | 0.0966 | U | 0.341 | 0.342 | 5.00 | 0.586 | pCi/L | | 05/20/21 16:23 | 1 |

Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-204849-2

Client Sample ID: MW-309

Lab Sample ID: 310-204849-11

Date Collected: 04/19/21 10:20

Matrix: Water

Date Received: 04/21/21 16:40

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.336 | | 0.135 | 0.138 | 1.00 | 0.136 | pCi/L | 04/27/21 11:08 | 05/19/21 07:05 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 92.7 | | 40 - 110 | | | | | 04/27/21 11:08 | 05/19/21 07:05 | 1 |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.172 | U | 0.355 | 0.356 | 1.00 | 0.605 | pCi/L | 04/27/21 11:43 | 05/12/21 12:41 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 92.7 | | 40 - 110 | | | | | 04/27/21 11:43 | 05/12/21 12:41 | 1 |
| Y Carrier | 89.3 | | 40 - 110 | | | | | 04/27/21 11:43 | 05/12/21 12:41 | 1 |

Method: Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|--------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Radium 226 and 228 | 0.509 | U | 0.380 | 0.382 | 5.00 | 0.605 | pCi/L | | 05/20/21 16:23 | 1 |

Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-204849-2

Client Sample ID: MW-310
 Date Collected: 04/19/21 07:30
 Date Received: 04/21/21 16:40

Lab Sample ID: 310-204849-12
 Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|-------------------|--------------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.410 | | 0.124 | 0.129 | 1.00 | 0.103 | pCi/L | 04/27/21 11:08 | 05/19/21 07:08 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 87.9 | | 40 - 110 | | | | | 04/27/21 11:08 | 05/19/21 07:08 | 1 |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|-------------------|--------------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.460 | | 0.261 | 0.264 | 1.00 | 0.387 | pCi/L | 04/27/21 11:43 | 05/12/21 12:41 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 87.9 | | 40 - 110 | | | | | 04/27/21 11:43 | 05/12/21 12:41 | 1 |
| Y Carrier | 87.1 | | 40 - 110 | | | | | 04/27/21 11:43 | 05/12/21 12:41 | 1 |

Method: Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|---------------------------|--------------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Radium 226 and 228 | 0.869 | | 0.289 | 0.294 | 5.00 | 0.387 | pCi/L | | 05/20/21 16:23 | 1 |

Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-204849-2

Client Sample ID: MW-311

Lab Sample ID: 310-204849-14

Date Collected: 04/19/21 08:50

Matrix: Water

Date Received: 04/21/21 16:40

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.224 | | 0.123 | 0.125 | 1.00 | 0.151 | pCi/L | 04/27/21 11:08 | 05/19/21 07:08 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 84.2 | | 40 - 110 | | | | | 04/27/21 11:08 | 05/19/21 07:08 | 1 |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.297 | U | 0.371 | 0.372 | 1.00 | 0.615 | pCi/L | 04/27/21 11:43 | 05/12/21 12:41 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 84.2 | | 40 - 110 | | | | | 04/27/21 11:43 | 05/12/21 12:41 | 1 |
| Y Carrier | 87.1 | | 40 - 110 | | | | | 04/27/21 11:43 | 05/12/21 12:41 | 1 |

Method: Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|--------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Radium 226 and 228 | 0.520 | U | 0.391 | 0.392 | 5.00 | 0.615 | pCi/L | | 05/20/21 16:23 | 1 |

Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-204849-2

Client Sample ID: MW-312

Lab Sample ID: 310-204849-15

Date Collected: 04/19/21 20:15

Matrix: Water

Date Received: 04/21/21 16:40

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.218 | | 0.126 | 0.127 | 1.00 | 0.164 | pCi/L | 04/27/21 11:08 | 05/19/21 07:08 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 89.1 | | 40 - 110 | | | | | 04/27/21 11:08 | 05/19/21 07:08 | 1 |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | -0.00944 | U | 0.295 | 0.295 | 1.00 | 0.533 | pCi/L | 04/27/21 11:43 | 05/12/21 12:41 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 89.1 | | 40 - 110 | | | | | 04/27/21 11:43 | 05/12/21 12:41 | 1 |
| Y Carrier | 89.0 | | 40 - 110 | | | | | 04/27/21 11:43 | 05/12/21 12:41 | 1 |

Method: Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|--------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Radium 226 and 228 | 0.218 | U | 0.321 | 0.321 | 5.00 | 0.533 | pCi/L | | 05/20/21 16:23 | 1 |

Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-204849-2

Client Sample ID: MW-313

Lab Sample ID: 310-204849-16

Date Collected: 04/19/21 18:20

Matrix: Water

Date Received: 04/21/21 16:40

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.861 | | 0.209 | 0.223 | 1.00 | 0.178 | pCi/L | 04/27/21 11:08 | 05/19/21 09:11 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 87.3 | | 40 - 110 | | | | | 04/27/21 11:08 | 05/19/21 09:11 | 1 |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 1.44 | | 0.436 | 0.456 | 1.00 | 0.560 | pCi/L | 04/27/21 11:43 | 05/12/21 12:42 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 87.3 | | 40 - 110 | | | | | 04/27/21 11:43 | 05/12/21 12:42 | 1 |
| Y Carrier | 86.7 | | 40 - 110 | | | | | 04/27/21 11:43 | 05/12/21 12:42 | 1 |

Method: Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|--------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Radium 226 and 228 | 2.30 | | 0.484 | 0.508 | 5.00 | 0.560 | pCi/L | | 05/20/21 16:23 | 1 |

Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-204849-2

Client Sample ID: MW-313A

Lab Sample ID: 310-204849-17

Date Collected: 04/19/21 18:55

Matrix: Water

Date Received: 04/21/21 16:40

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.428 | | 0.152 | 0.157 | 1.00 | 0.159 | pCi/L | 04/27/21 11:08 | 05/19/21 09:11 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 90.3 | | 40 - 110 | | | | | 04/27/21 11:08 | 05/19/21 09:11 | 1 |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.659 | | 0.353 | 0.358 | 1.00 | 0.525 | pCi/L | 04/27/21 11:43 | 05/12/21 12:43 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 90.3 | | 40 - 110 | | | | | 04/27/21 11:43 | 05/12/21 12:43 | 1 |
| Y Carrier | 89.3 | | 40 - 110 | | | | | 04/27/21 11:43 | 05/12/21 12:43 | 1 |

Method: Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|--------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Radium 226 and 228 | 1.09 | | 0.384 | 0.391 | 5.00 | 0.525 | pCi/L | | 05/20/21 16:23 | 1 |

Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-204849-2

Client Sample ID: Field Blank

Lab Sample ID: 310-204849-18

Date Collected: 04/20/21 15:00

Matrix: Water

Date Received: 04/21/21 16:40

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.0472 | U | 0.0795 | 0.0796 | 1.00 | 0.138 | pCi/L | 04/27/21 11:08 | 05/19/21 09:11 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 87.0 | | 40 - 110 | | | | | 04/27/21 11:08 | 05/19/21 09:11 | 1 |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|---------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | -0.0397 | U | 0.177 | 0.177 | 1.00 | 0.334 | pCi/L | 04/27/21 11:43 | 05/12/21 12:44 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 87.0 | | 40 - 110 | | | | | 04/27/21 11:43 | 05/12/21 12:44 | 1 |
| Y Carrier | 91.6 | | 40 - 110 | | | | | 04/27/21 11:43 | 05/12/21 12:44 | 1 |

Method: Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|--------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Radium 226 and 228 | 0.0472 | U | 0.194 | 0.194 | 5.00 | 0.334 | pCi/L | | 05/20/21 16:23 | 1 |

Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-204849-2

Client Sample ID: MW-310A

Lab Sample ID: 310-204849-19

Date Collected: 04/20/21 16:45

Matrix: Water

Date Received: 04/21/21 16:40

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 1.04 | | 0.315 | 0.329 | 1.00 | 0.313 | pCi/L | 04/27/21 11:08 | 05/19/21 09:12 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 76.4 | | 40 - 110 | | | | | 04/27/21 11:08 | 05/19/21 09:12 | 1 |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 1.47 | | 0.554 | 0.571 | 1.00 | 0.724 | pCi/L | 04/27/21 11:43 | 05/12/21 12:44 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 76.4 | | 40 - 110 | | | | | 04/27/21 11:43 | 05/12/21 12:44 | 1 |
| Y Carrier | 93.1 | | 40 - 110 | | | | | 04/27/21 11:43 | 05/12/21 12:44 | 1 |

Method: Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|--------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Radium 226 and 228 | 2.51 | | 0.637 | 0.659 | 5.00 | 0.724 | pCi/L | | 05/20/21 16:23 | 1 |

Definitions/Glossary

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-204849-2

Qualifiers

Rad

| Qualifier | Qualifier Description |
|-----------|-------------------------------------------------|
| U | Result is less than the sample detection limit. |

Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|----------------|-------------------------------------------------------------------------------------------------------------|
| α | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CFU | Colony Forming Unit |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MCL | EPA recommended "Maximum Contaminant Level" |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| MPN | Most Probable Number |
| MQL | Method Quantitation Limit |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| NEG | Negative / Absent |
| POS | Positive / Present |
| PQL | Practical Quantitation Limit |
| PRES | Presumptive |
| QC | Quality Control |
| RER | Relative Error Ratio (Radiochemistry) |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |
| TNTC | Too Numerous To Count |

QC Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-204849-2

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-507302/23-A
Matrix: Water
Analysis Batch: 510454

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 507302

| Analyte | MB | | Count | Total | RL | MDC | Unit | Prepared | | Analyzed | | Dil Fac |
|------------|---------|--------------|-----------------|-----------------|------|-------|-------|----------------|----------------|----------|---|---------|
| | Result | MB Qualifier | Uncert. (2σ+/-) | Uncert. (2σ+/-) | | | | 04/27/21 11:08 | 05/19/21 09:12 | | | |
| Radium-226 | 0.04706 | U | 0.0877 | 0.0878 | 1.00 | 0.157 | pCi/L | 04/27/21 11:08 | 05/19/21 09:12 | | 1 | |
| Carrier | MB | | Limits | | | | | Prepared | Analyzed | Dil Fac | | |
| Ba Carrier | 77.6 | | 40 - 110 | | | | | 04/27/21 11:08 | 05/19/21 09:12 | 1 | | |

Lab Sample ID: LCS 160-507302/1-A
Matrix: Water
Analysis Batch: 510454

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 507302

| Analyte | LCS | | Spike | LCS | Total | RL | MDC | Unit | %Rec | %Rec. Limits | |
|------------|--------|----------|----------|--------|-----------------|------|-------|-------|------|--------------|--|
| | Result | LCS Qual | Added | Result | Uncert. (2σ+/-) | | | | | 75 - 125 | |
| Radium-226 | | | 15.1 | 14.78 | 1.56 | 1.00 | 0.168 | pCi/L | 98 | 75 - 125 | |
| Carrier | LCS | | Limits | | | | | | | | |
| Ba Carrier | 86.1 | | 40 - 110 | | | | | | | | |

Lab Sample ID: LCSD 160-507302/2-A
Matrix: Water
Analysis Batch: 510454

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 507302

| Analyte | LCSD | | Spike | LCSD | Total | RL | MDC | Unit | %Rec | %Rec. Limits | | RER | Limit |
|------------|--------|-----------|----------|--------|-----------------|------|-------|-------|------|--------------|------|-------|-------|
| | Result | LCSD Qual | Added | Result | Uncert. (2σ+/-) | | | | | 75 - 125 | RER | Limit | |
| Radium-226 | | | 15.1 | 15.15 | 1.59 | 1.00 | 0.157 | pCi/L | 100 | 75 - 125 | 0.12 | 1 | |
| Carrier | LCSD | | Limits | | | | | | | | | | |
| Ba Carrier | 85.5 | | 40 - 110 | | | | | | | | | | |

Lab Sample ID: MB 160-507512/23-A
Matrix: Water
Analysis Batch: 510658

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 507512

| Analyte | MB | | Count | Total | RL | MDC | Unit | Prepared | | Analyzed | | Dil Fac |
|------------|----------|--------------|-----------------|-----------------|------|-------|-------|----------------|----------------|----------|---|---------|
| | Result | MB Qualifier | Uncert. (2σ+/-) | Uncert. (2σ+/-) | | | | 04/28/21 13:36 | 05/20/21 06:58 | | | |
| Radium-226 | 0.003416 | U | 0.0860 | 0.0860 | 1.00 | 0.174 | pCi/L | 04/28/21 13:36 | 05/20/21 06:58 | | 1 | |
| Carrier | MB | | Limits | | | | | Prepared | Analyzed | Dil Fac | | |
| Ba Carrier | 79.7 | | 40 - 110 | | | | | 04/28/21 13:36 | 05/20/21 06:58 | 1 | | |

Lab Sample ID: LCS 160-507512/1-A
Matrix: Water
Analysis Batch: 510661

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 507512

| Analyte | LCS | | Spike | LCS | Total | RL | MDC | Unit | %Rec | %Rec. Limits | |
|------------|--------|----------|-------|--------|-----------------|------|-------|-------|------|--------------|--|
| | Result | LCS Qual | Added | Result | Uncert. (2σ+/-) | | | | | 75 - 125 | |
| Radium-226 | | | 15.1 | 16.09 | 1.69 | 1.00 | 0.173 | pCi/L | 106 | 75 - 125 | |

QC Sample Results

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-204849-2

Method: 903.0 - Radium-226 (GFPC) (Continued)

Lab Sample ID: LCS 160-507512/1-A
Matrix: Water
Analysis Batch: 510661

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 507512

| Carrier | LCS %Yield | LCS Qualifier | Limits |
|------------|---------------|------------------|----------|
| Ba Carrier | 83.9 | | 40 - 110 |

Lab Sample ID: LCSD 160-507512/2-A
Matrix: Water
Analysis Batch: 510661

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 507512

| Analyte | Spike Added | LCSD Result | LCSD Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec. Limits | RER | RER Limit |
|------------|----------------|----------------|--------------|-----------------------------|------|-------|-------|------|-----------------|-----|--------------|
| Radium-226 | 15.1 | 15.77 | | 1.67 | 1.00 | 0.181 | pCi/L | 104 | 75 - 125 | 0.1 | 1 |

| Carrier | LCSD %Yield | LCSD Qualifier | Limits |
|------------|----------------|-------------------|----------|
| Ba Carrier | 83.6 | | 40 - 110 |

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-507306/23-A
Matrix: Water
Analysis Batch: 509349

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 507306

| Analyte | MB Result | MB Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------------|-----------------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | -0.1340 | U | 0.322 | 0.322 | 1.00 | 0.605 | pCi/L | 04/27/21 11:43 | 05/12/21 12:44 | 1 |

| Carrier | MB %Yield | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------|--------------|-----------------|----------|----------------|----------------|---------|
| Ba Carrier | 77.6 | | 40 - 110 | 04/27/21 11:43 | 05/12/21 12:44 | 1 |
| Y Carrier | 90.1 | | 40 - 110 | 04/27/21 11:43 | 05/12/21 12:44 | 1 |

Lab Sample ID: LCS 160-507306/1-A
Matrix: Water
Analysis Batch: 509333

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 507306

| Analyte | Spike Added | LCS Result | LCS Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec. Limits |
|------------|----------------|---------------|-------------|-----------------------------|------|-------|-------|------|-----------------|
| Radium-228 | 9.62 | 11.06 | | 1.37 | 1.00 | 0.594 | pCi/L | 115 | 75 - 125 |

| Carrier | LCS %Yield | LCS Qualifier | Limits |
|------------|---------------|------------------|----------|
| Ba Carrier | 86.1 | | 40 - 110 |
| Y Carrier | 84.9 | | 40 - 110 |

Lab Sample ID: LCSD 160-507306/2-A
Matrix: Water
Analysis Batch: 509333

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 507306

| Analyte | Spike Added | LCSD Result | LCSD Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec. Limits | RER | RER Limit |
|------------|----------------|----------------|--------------|-----------------------------|------|-------|-------|------|-----------------|------|--------------|
| Radium-228 | 9.62 | 10.86 | | 1.35 | 1.00 | 0.579 | pCi/L | 113 | 75 - 125 | 0.07 | 1 |

Eurofins TestAmerica, Cedar Falls

QC Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-204849-2

Method: 904.0 - Radium-228 (GFPC) (Continued)

Lab Sample ID: LCSD 160-507306/2-A
Matrix: Water
Analysis Batch: 509333

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 507306

| Carrier | LCSD | | Limits |
|------------|--------|-----------|----------|
| | %Yield | Qualifier | |
| Ba Carrier | 85.5 | | 40 - 110 |
| Y Carrier | 86.0 | | 40 - 110 |

Lab Sample ID: MB 160-507517/23-A
Matrix: Water
Analysis Batch: 509517

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 507517

| Analyte | MB | | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | | Analyzed | | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|----------|---|---------|
| | Result | Qualifier | | | | | | | | | | |
| Radium-228 | 0.3832 | U | 0.378 | 0.379 | 1.00 | 0.612 | pCi/L | 04/28/21 14:41 | 05/13/21 13:39 | | 1 | |

| Carrier | MB | | Limits | Prepared | | Analyzed | | Dil Fac |
|------------|--------|-----------|----------|----------------|----------------|----------|---|---------|
| | %Yield | Qualifier | | | | | | |
| Ba Carrier | 79.7 | | 40 - 110 | 04/28/21 14:41 | 05/13/21 13:39 | | 1 | |
| Y Carrier | 84.9 | | 40 - 110 | 04/28/21 14:41 | 05/13/21 13:39 | | 1 | |

Lab Sample ID: LCS 160-507517/1-A
Matrix: Water
Analysis Batch: 509526

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 507517

| Analyte | Spike Added | LCS Result | LCS Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec. Limits | |
|---------|----------------|---------------|-------------|-----------------------------|----|-----|------|------|-----------------|------|
| | | | | | | | | | Radium-228 | 9.62 |

| Carrier | LCS | | Limits |
|------------|--------|-----------|----------|
| | %Yield | Qualifier | |
| Ba Carrier | 83.9 | | 40 - 110 |
| Y Carrier | 88.2 | | 40 - 110 |

Lab Sample ID: LCSD 160-507517/2-A
Matrix: Water
Analysis Batch: 509526

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 507517

| Analyte | Spike Added | LCSD Result | LCSD Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec. Limits | | RER | Limit |
|---------|----------------|----------------|--------------|-----------------------------|----|-----|------|------|-----------------|------|-------|-------|
| | | | | | | | | | Radium-228 | 9.62 | 10.04 | |

| Carrier | LCSD | | Limits |
|------------|--------|-----------|----------|
| | %Yield | Qualifier | |
| Ba Carrier | 83.6 | | 40 - 110 |
| Y Carrier | 88.2 | | 40 - 110 |

QC Association Summary

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-204849-2

Rad

Prep Batch: 507302

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|------------|------------|
| 310-204849-8 | MW-307 | Total/NA | Water | PrecSep-21 | |
| 310-204849-9 | MW-307A | Total/NA | Water | PrecSep-21 | |
| 310-204849-10 | MW-308 | Total/NA | Water | PrecSep-21 | |
| 310-204849-11 | MW-309 | Total/NA | Water | PrecSep-21 | |
| 310-204849-12 | MW-310 | Total/NA | Water | PrecSep-21 | |
| 310-204849-14 | MW-311 | Total/NA | Water | PrecSep-21 | |
| 310-204849-15 | MW-312 | Total/NA | Water | PrecSep-21 | |
| 310-204849-16 | MW-313 | Total/NA | Water | PrecSep-21 | |
| 310-204849-17 | MW-313A | Total/NA | Water | PrecSep-21 | |
| 310-204849-18 | Field Blank | Total/NA | Water | PrecSep-21 | |
| 310-204849-19 | MW-310A | Total/NA | Water | PrecSep-21 | |
| MB 160-507302/23-A | Method Blank | Total/NA | Water | PrecSep-21 | |
| LCS 160-507302/1-A | Lab Control Sample | Total/NA | Water | PrecSep-21 | |
| LCSD 160-507302/2-A | Lab Control Sample Dup | Total/NA | Water | PrecSep-21 | |

Prep Batch: 507306

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|-----------|------------|
| 310-204849-8 | MW-307 | Total/NA | Water | PrecSep_0 | |
| 310-204849-9 | MW-307A | Total/NA | Water | PrecSep_0 | |
| 310-204849-10 | MW-308 | Total/NA | Water | PrecSep_0 | |
| 310-204849-11 | MW-309 | Total/NA | Water | PrecSep_0 | |
| 310-204849-12 | MW-310 | Total/NA | Water | PrecSep_0 | |
| 310-204849-14 | MW-311 | Total/NA | Water | PrecSep_0 | |
| 310-204849-15 | MW-312 | Total/NA | Water | PrecSep_0 | |
| 310-204849-16 | MW-313 | Total/NA | Water | PrecSep_0 | |
| 310-204849-17 | MW-313A | Total/NA | Water | PrecSep_0 | |
| 310-204849-18 | Field Blank | Total/NA | Water | PrecSep_0 | |
| 310-204849-19 | MW-310A | Total/NA | Water | PrecSep_0 | |
| MB 160-507306/23-A | Method Blank | Total/NA | Water | PrecSep_0 | |
| LCS 160-507306/1-A | Lab Control Sample | Total/NA | Water | PrecSep_0 | |
| LCSD 160-507306/2-A | Lab Control Sample Dup | Total/NA | Water | PrecSep_0 | |

Prep Batch: 507512

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|------------|------------|
| 310-204849-1 | MW-301 | Total/NA | Water | PrecSep-21 | |
| 310-204849-2 | MW-302 | Total/NA | Water | PrecSep-21 | |
| 310-204849-3 | MW-302A | Total/NA | Water | PrecSep-21 | |
| 310-204849-4 | MW-303 | Total/NA | Water | PrecSep-21 | |
| 310-204849-5 | MW-304 | Total/NA | Water | PrecSep-21 | |
| 310-204849-6 | MW-305 | Total/NA | Water | PrecSep-21 | |
| 310-204849-7 | MW-306 | Total/NA | Water | PrecSep-21 | |
| MB 160-507512/23-A | Method Blank | Total/NA | Water | PrecSep-21 | |
| LCS 160-507512/1-A | Lab Control Sample | Total/NA | Water | PrecSep-21 | |
| LCSD 160-507512/2-A | Lab Control Sample Dup | Total/NA | Water | PrecSep-21 | |

Prep Batch: 507517

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|-----------|------------|
| 310-204849-1 | MW-301 | Total/NA | Water | PrecSep_0 | |
| 310-204849-2 | MW-302 | Total/NA | Water | PrecSep_0 | |
| 310-204849-3 | MW-302A | Total/NA | Water | PrecSep_0 | |
| 310-204849-4 | MW-303 | Total/NA | Water | PrecSep_0 | |

QC Association Summary

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-204849-2

Rad (Continued)

Prep Batch: 507517 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|-----------|------------|
| 310-204849-5 | MW-304 | Total/NA | Water | PrecSep_0 | |
| 310-204849-6 | MW-305 | Total/NA | Water | PrecSep_0 | |
| 310-204849-7 | MW-306 | Total/NA | Water | PrecSep_0 | |
| MB 160-507517/23-A | Method Blank | Total/NA | Water | PrecSep_0 | |
| LCS 160-507517/1-A | Lab Control Sample | Total/NA | Water | PrecSep_0 | |
| LCSD 160-507517/2-A | Lab Control Sample Dup | Total/NA | Water | PrecSep_0 | |

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Lab Chronicle

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-204849-2

Client Sample ID: MW-301
Date Collected: 04/19/21 11:40
Date Received: 04/21/21 16:40

Lab Sample ID: 310-204849-1
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 507512 | 04/28/21 13:36 | HRT | TAL SL |
| Total/NA | Analysis | 903.0 | | 1 | 510661 | 05/20/21 06:55 | SCB | TAL SL |
| Total/NA | Prep | PrecSep_0 | | | 507517 | 04/28/21 14:41 | HRT | TAL SL |
| Total/NA | Analysis | 904.0 | | 1 | 509526 | 05/13/21 13:37 | SCB | TAL SL |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 510705 | 05/20/21 16:23 | FLC | TAL SL |

Client Sample ID: MW-302
Date Collected: 04/19/21 13:50
Date Received: 04/21/21 16:40

Lab Sample ID: 310-204849-2
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 507512 | 04/28/21 13:36 | HRT | TAL SL |
| Total/NA | Analysis | 903.0 | | 1 | 510661 | 05/20/21 06:55 | SCB | TAL SL |
| Total/NA | Prep | PrecSep_0 | | | 507517 | 04/28/21 14:41 | HRT | TAL SL |
| Total/NA | Analysis | 904.0 | | 1 | 509526 | 05/13/21 13:37 | SCB | TAL SL |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 510705 | 05/20/21 16:23 | FLC | TAL SL |

Client Sample ID: MW-302A
Date Collected: 04/19/21 13:15
Date Received: 04/21/21 16:40

Lab Sample ID: 310-204849-3
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 507512 | 04/28/21 13:36 | HRT | TAL SL |
| Total/NA | Analysis | 903.0 | | 1 | 510658 | 05/20/21 06:57 | SCB | TAL SL |
| Total/NA | Prep | PrecSep_0 | | | 507517 | 04/28/21 14:41 | HRT | TAL SL |
| Total/NA | Analysis | 904.0 | | 1 | 509526 | 05/13/21 13:37 | SCB | TAL SL |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 510705 | 05/20/21 16:23 | FLC | TAL SL |

Client Sample ID: MW-303
Date Collected: 04/19/21 15:55
Date Received: 04/21/21 16:40

Lab Sample ID: 310-204849-4
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 507512 | 04/28/21 13:36 | HRT | TAL SL |
| Total/NA | Analysis | 903.0 | | 1 | 510658 | 05/20/21 06:57 | SCB | TAL SL |
| Total/NA | Prep | PrecSep_0 | | | 507517 | 04/28/21 14:41 | HRT | TAL SL |
| Total/NA | Analysis | 904.0 | | 1 | 509526 | 05/13/21 13:37 | SCB | TAL SL |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 510705 | 05/20/21 16:23 | FLC | TAL SL |

Lab Chronicle

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-204849-2

Client Sample ID: MW-304

Lab Sample ID: 310-204849-5

Date Collected: 04/19/21 17:00

Matrix: Water

Date Received: 04/21/21 16:40

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 507512 | 04/28/21 13:36 | HRT | TAL SL |
| Total/NA | Analysis | 903.0 | | 1 | 510658 | 05/20/21 06:57 | SCB | TAL SL |
| Total/NA | Prep | PrecSep_0 | | | 507517 | 04/28/21 14:41 | HRT | TAL SL |
| Total/NA | Analysis | 904.0 | | 1 | 509526 | 05/13/21 13:37 | SCB | TAL SL |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 510705 | 05/20/21 16:23 | FLC | TAL SL |

Client Sample ID: MW-305

Lab Sample ID: 310-204849-6

Date Collected: 04/20/21 14:00

Matrix: Water

Date Received: 04/21/21 16:40

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 507512 | 04/28/21 13:36 | HRT | TAL SL |
| Total/NA | Analysis | 903.0 | | 1 | 510658 | 05/20/21 06:57 | SCB | TAL SL |
| Total/NA | Prep | PrecSep_0 | | | 507517 | 04/28/21 14:41 | HRT | TAL SL |
| Total/NA | Analysis | 904.0 | | 1 | 509526 | 05/13/21 13:37 | SCB | TAL SL |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 510705 | 05/20/21 16:23 | FLC | TAL SL |

Client Sample ID: MW-306

Lab Sample ID: 310-204849-7

Date Collected: 04/19/21 12:20

Matrix: Water

Date Received: 04/21/21 16:40

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 507512 | 04/28/21 13:36 | HRT | TAL SL |
| Total/NA | Analysis | 903.0 | | 1 | 510658 | 05/20/21 06:57 | SCB | TAL SL |
| Total/NA | Prep | PrecSep_0 | | | 507517 | 04/28/21 14:41 | HRT | TAL SL |
| Total/NA | Analysis | 904.0 | | 1 | 509526 | 05/13/21 13:37 | SCB | TAL SL |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 510705 | 05/20/21 16:23 | FLC | TAL SL |

Client Sample ID: MW-307

Lab Sample ID: 310-204849-8

Date Collected: 04/20/21 10:30

Matrix: Water

Date Received: 04/21/21 16:40

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 507302 | 04/27/21 11:08 | HRT | TAL SL |
| Total/NA | Analysis | 903.0 | | 1 | 510474 | 05/19/21 07:05 | ANW | TAL SL |
| Total/NA | Prep | PrecSep_0 | | | 507306 | 04/27/21 11:43 | HRT | TAL SL |
| Total/NA | Analysis | 904.0 | | 1 | 509333 | 05/12/21 12:40 | FLC | TAL SL |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 510705 | 05/20/21 16:23 | FLC | TAL SL |

Lab Chronicle

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-204849-2

Client Sample ID: MW-307A

Lab Sample ID: 310-204849-9

Date Collected: 04/20/21 09:35

Matrix: Water

Date Received: 04/21/21 16:40

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 507302 | 04/27/21 11:08 | HRT | TAL SL |
| Total/NA | Analysis | 903.0 | | 1 | 510474 | 05/19/21 07:05 | ANW | TAL SL |
| Total/NA | Prep | PrecSep_0 | | | 507306 | 04/27/21 11:43 | HRT | TAL SL |
| Total/NA | Analysis | 904.0 | | 1 | 509333 | 05/12/21 12:40 | FLC | TAL SL |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 510705 | 05/20/21 16:23 | FLC | TAL SL |

Client Sample ID: MW-308

Lab Sample ID: 310-204849-10

Date Collected: 04/20/21 07:45

Matrix: Water

Date Received: 04/21/21 16:40

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 507302 | 04/27/21 11:08 | HRT | TAL SL |
| Total/NA | Analysis | 903.0 | | 1 | 510474 | 05/19/21 07:05 | ANW | TAL SL |
| Total/NA | Prep | PrecSep_0 | | | 507306 | 04/27/21 11:43 | HRT | TAL SL |
| Total/NA | Analysis | 904.0 | | 1 | 509333 | 05/12/21 12:40 | FLC | TAL SL |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 510705 | 05/20/21 16:23 | FLC | TAL SL |

Client Sample ID: MW-309

Lab Sample ID: 310-204849-11

Date Collected: 04/19/21 10:20

Matrix: Water

Date Received: 04/21/21 16:40

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 507302 | 04/27/21 11:08 | HRT | TAL SL |
| Total/NA | Analysis | 903.0 | | 1 | 510474 | 05/19/21 07:05 | ANW | TAL SL |
| Total/NA | Prep | PrecSep_0 | | | 507306 | 04/27/21 11:43 | HRT | TAL SL |
| Total/NA | Analysis | 904.0 | | 1 | 509333 | 05/12/21 12:41 | FLC | TAL SL |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 510705 | 05/20/21 16:23 | FLC | TAL SL |

Client Sample ID: MW-310

Lab Sample ID: 310-204849-12

Date Collected: 04/19/21 07:30

Matrix: Water

Date Received: 04/21/21 16:40

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 507302 | 04/27/21 11:08 | HRT | TAL SL |
| Total/NA | Analysis | 903.0 | | 1 | 510474 | 05/19/21 07:08 | ANW | TAL SL |
| Total/NA | Prep | PrecSep_0 | | | 507306 | 04/27/21 11:43 | HRT | TAL SL |
| Total/NA | Analysis | 904.0 | | 1 | 509333 | 05/12/21 12:41 | FLC | TAL SL |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 510705 | 05/20/21 16:23 | FLC | TAL SL |

Lab Chronicle

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-204849-2

Client Sample ID: MW-311

Lab Sample ID: 310-204849-14

Date Collected: 04/19/21 08:50

Matrix: Water

Date Received: 04/21/21 16:40

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 507302 | 04/27/21 11:08 | HRT | TAL SL |
| Total/NA | Analysis | 903.0 | | 1 | 510474 | 05/19/21 07:08 | ANW | TAL SL |
| Total/NA | Prep | PrecSep_0 | | | 507306 | 04/27/21 11:43 | HRT | TAL SL |
| Total/NA | Analysis | 904.0 | | 1 | 509333 | 05/12/21 12:41 | FLC | TAL SL |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 510705 | 05/20/21 16:23 | FLC | TAL SL |

Client Sample ID: MW-312

Lab Sample ID: 310-204849-15

Date Collected: 04/19/21 20:15

Matrix: Water

Date Received: 04/21/21 16:40

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 507302 | 04/27/21 11:08 | HRT | TAL SL |
| Total/NA | Analysis | 903.0 | | 1 | 510474 | 05/19/21 07:08 | ANW | TAL SL |
| Total/NA | Prep | PrecSep_0 | | | 507306 | 04/27/21 11:43 | HRT | TAL SL |
| Total/NA | Analysis | 904.0 | | 1 | 509333 | 05/12/21 12:41 | FLC | TAL SL |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 510705 | 05/20/21 16:23 | FLC | TAL SL |

Client Sample ID: MW-313

Lab Sample ID: 310-204849-16

Date Collected: 04/19/21 18:20

Matrix: Water

Date Received: 04/21/21 16:40

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 507302 | 04/27/21 11:08 | HRT | TAL SL |
| Total/NA | Analysis | 903.0 | | 1 | 510454 | 05/19/21 09:11 | AK | TAL SL |
| Total/NA | Prep | PrecSep_0 | | | 507306 | 04/27/21 11:43 | HRT | TAL SL |
| Total/NA | Analysis | 904.0 | | 1 | 509333 | 05/12/21 12:42 | FLC | TAL SL |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 510705 | 05/20/21 16:23 | FLC | TAL SL |

Client Sample ID: MW-313A

Lab Sample ID: 310-204849-17

Date Collected: 04/19/21 18:55

Matrix: Water

Date Received: 04/21/21 16:40

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 507302 | 04/27/21 11:08 | HRT | TAL SL |
| Total/NA | Analysis | 903.0 | | 1 | 510454 | 05/19/21 09:11 | AK | TAL SL |
| Total/NA | Prep | PrecSep_0 | | | 507306 | 04/27/21 11:43 | HRT | TAL SL |
| Total/NA | Analysis | 904.0 | | 1 | 509349 | 05/12/21 12:43 | FLC | TAL SL |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 510705 | 05/20/21 16:23 | FLC | TAL SL |

Lab Chronicle

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-204849-2

Client Sample ID: Field Blank

Lab Sample ID: 310-204849-18

Date Collected: 04/20/21 15:00

Matrix: Water

Date Received: 04/21/21 16:40

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 507302 | 04/27/21 11:08 | HRT | TAL SL |
| Total/NA | Analysis | 903.0 | | 1 | 510454 | 05/19/21 09:11 | AK | TAL SL |
| Total/NA | Prep | PrecSep_0 | | | 507306 | 04/27/21 11:43 | HRT | TAL SL |
| Total/NA | Analysis | 904.0 | | 1 | 509349 | 05/12/21 12:44 | FLC | TAL SL |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 510705 | 05/20/21 16:23 | FLC | TAL SL |

Client Sample ID: MW-310A

Lab Sample ID: 310-204849-19

Date Collected: 04/20/21 16:45

Matrix: Water

Date Received: 04/21/21 16:40

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 507302 | 04/27/21 11:08 | HRT | TAL SL |
| Total/NA | Analysis | 903.0 | | 1 | 510454 | 05/19/21 09:12 | AK | TAL SL |
| Total/NA | Prep | PrecSep_0 | | | 507306 | 04/27/21 11:43 | HRT | TAL SL |
| Total/NA | Analysis | 904.0 | | 1 | 509349 | 05/12/21 12:44 | FLC | TAL SL |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 510705 | 05/20/21 16:23 | FLC | TAL SL |

Laboratory References:

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Accreditation/Certification Summary

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-204849-2

Laboratory: Eurofins TestAmerica, St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

| Authority | Program | Identification Number | Expiration Date |
|--------------------------|-----------------------------------------|----------------------------|-----------------|
| Alaska (UST) | State | 20-001 | 05-06-22 |
| ANAB | Dept. of Defense ELAP | L2305 | 04-06-22 |
| ANAB | Dept. of Energy | L2305.01 | 04-06-22 |
| ANAB | ISO/IEC 17025 | L2305 | 04-06-22 |
| Arizona | State | AZ0813 | 12-08-21 |
| California | Los Angeles County Sanitation Districts | 10259 | 06-30-21 |
| California | State | 2886 | 06-30-21 |
| Connecticut | State | PH-0241 | 03-31-21 * |
| Florida | NELAP | E87689 | 06-30-21 |
| HI - RadChem Recognition | State | n/a | 06-30-21 |
| Illinois | NELAP | 004553 | 11-30-21 |
| Iowa | State | 373 | 12-01-22 |
| Kansas | NELAP | E-10236 | 10-31-21 |
| Kentucky (DW) | State | KY90125 | 01-01-22 |
| Kentucky (WW) | State | KY90125 (Permit KY0004049) | 12-31-21 |
| Louisiana | NELAP | 04080 | 06-30-21 |
| Louisiana (DW) | State | LA011 | 12-31-21 |
| Maryland | State | 310 | 09-30-21 |
| MI - RadChem Recognition | State | 9005 | 06-30-21 |
| Missouri | State | 780 | 06-30-22 |
| Nevada | State | MO000542020-1 | 07-31-21 |
| New Jersey | NELAP | MO002 | 06-30-21 |
| New York | NELAP | 11616 | 04-01-22 |
| North Dakota | State | R-207 | 06-30-21 |
| NRC | NRC | 24-24817-01 | 12-31-22 |
| Oklahoma | State | 9997 | 08-31-21 |
| Oregon | NELAP | 4157 | 09-01-21 |
| Pennsylvania | NELAP | 68-00540 | 03-01-22 |
| South Carolina | State | 85002001 | 06-30-21 |
| Texas | NELAP | T104704193 | 07-31-21 |
| US Fish & Wildlife | US Federal Programs | 058448 | 07-31-21 |
| USDA | US Federal Programs | P330-17-00028 | 03-11-23 |
| Utah | NELAP | MO000542019-11 | 07-31-21 |
| Virginia | NELAP | 10310 | 06-14-21 |
| Washington | State | C592 | 08-30-21 |
| West Virginia DEP | State | 381 | 10-31-21 |

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-204849-2

| Method | Method Description | Protocol | Laboratory |
|--------------------|--------------------------------------------------------|----------|------------|
| 903.0 | Radium-226 (GFPC) | EPA | TAL SL |
| 904.0 | Radium-228 (GFPC) | EPA | TAL SL |
| Ra226_Ra228 Pos | Combined Radium-226 and Radium-228 | TAL-STL | TAL SL |
| PrecSep_0 | Preparation, Precipitate Separation | None | TAL SL |
| PrecSep-21 | Preparation, Precipitate Separation (21-Day In-Growth) | None | TAL SL |

Protocol References:

EPA = US Environmental Protection Agency

None = None

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566



310-204849 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

| | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|---------------------------------|
| Client Information | | | |
| Client: <u>SCS</u> | | | |
| City/State: | CITY | STATE | Project: <u>Burlington Gen.</u> |
| Receipt Information | | | |
| Date/Time Received: | DATE | TIME | Received By: <u>Sjt</u> |
| Delivery Type: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input checked="" type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____ | | | |
| Condition of Cooler/Containers | | | |
| Sample(s) received in Cooler? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If yes: Cooler ID: <u>AA-32</u> | |
| Multiple Coolers? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If yes: Cooler # <u>1</u> of <u>4</u> <u>4/22/20</u> | |
| Cooler Custody Seals Present? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If yes: Cooler custody seals intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| Sample Custody Seals Present? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No | |
| Trip Blank Present? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If yes: Which VOA samples are in cooler? ↓ | |
| <u>MW-304, MW 311, MW 313, MW 313A</u> | | | |
| <u>MW 302</u> | | | |
| Temperature Record | | | |
| Coolant: | <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE | | |
| Thermometer ID: | <u>N</u> | Correction Factor (°C): | <u>0</u> |
| • Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature | | | |
| Uncorrected Temp (°C): | <u>0.9</u> | Corrected Temp (°C): | <u>0.9</u> |
| • Sample Container Temperature | | | |
| Container(s) used: | CONTAINER 1 | CONTAINER 2 | |
| Uncorrected Temp (°C): | | | |
| Corrected Temp (°C): | | | |
| Exceptions Noted | | | |
| 1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No | | | |
| a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No | | | |
| 2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No | | | |
| NOTE: If yes, contact PM before proceeding. If no, proceed with login | | | |
| Additional Comments | | | |
| | | | |
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| | | | |



Environment Testing
TestAmerica

Place COC scanning label
here

Cooler/Sample Receipt and Temperature Log Form

| | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|---------------------------------|
| Client Information | | | |
| Client: <u>SCS</u> | | | |
| City/State: | CITY <u>Clive</u> | STATE <u>IA</u> | Project: <u>Burlington Gen.</u> |
| Receipt Information | | | |
| Date/Time Received: | DATE <u>4/21/21</u> | TIME <u>1040</u> | Received By: <u>SA</u> |
| Delivery Type: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee | | | |
| <input checked="" type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____ | | | |
| Condition of Cooler/Containers | | | |
| Sample(s) received in Cooler? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If yes: Cooler ID: <u>AC-22</u> | |
| Multiple Coolers? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If yes: Cooler # <u>2</u> of <u>4/5</u> | |
| Cooler Custody Seals Present? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If yes: Cooler custody seals intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| Sample Custody Seals Present? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No | |
| Trip Blank Present? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If yes: Which VOA samples are in cooler? ↓ | |
| <u>MW-302A MW301 MW 312 MW309</u> | | | |
| <u>MW-310</u> | | | |
| Temperature Record | | | |
| Coolant: | <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE | | |
| Thermometer ID: | <u>N</u> | Correction Factor (°C): <u>0</u> | |
| • Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature | | | |
| Uncorrected Temp (°C): | <u>1.1</u> | Corrected Temp (°C): <u>1.1</u> | |
| • Sample Container Temperature | | | |
| Container(s) used: | <u>CONTAINER 1</u> | <u>CONTAINER 2</u> | |
| Uncorrected Temp (°C): | | | |
| Corrected Temp (°C): | | | |
| Exceptions Noted | | | |
| 1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No | | | |
| a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No | | | |
| 2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No | | | |
| NOTE: If yes, contact PM before proceeding. If no, proceed with login | | | |
| Additional Comments | | | |
| | | | |
| | | | |
| | | | |

Document: CF-LG-WI-002
Revision: 25
Date: 06/17/2019

Eurofins TestAmerica, Cedar Falls

General temperature criteria is 0 to 6°C
Bacteria temperature criteria is 0 to 10°C

Cooler/Sample Receipt and Temperature Log Form

| Client Information | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| Client: <u>SCS</u> | | |
| City/State: <u>Clive IA</u> | Project: <u>Burlington Gen</u> | |
| Receipt Information | | |
| Date/Time Received: <u>4/21/21 1640</u> | Received By: <u>CB</u> | |
| Delivery Type: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input checked="" type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____ | | |
| Condition of Cooler/Containers | | |
| Sample(s) received in Cooler? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If yes: Cooler ID: <u>AC10</u> |
| Multiple Coolers? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If yes: Cooler # <u>3</u> of <u>4</u> |
| Cooler Custody Seals Present? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If yes: Cooler custody seals intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| Sample Custody Seals Present? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Trip Blank Present? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If yes: Which VOA samples are in cooler? ↓ |
| <u>MW-303, Field Blank</u> | | |
| <u>MSjt 4/21/21</u> | | |
| Temperature Record | | |
| Coolant: <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE | | |
| Thermometer ID: <u>Q</u> | Correction Factor (°C): <u>0.0</u> | |
| • Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature | | |
| Uncorrected Temp (°C): <u>1.6</u> | Corrected Temp (°C): <u>1.6</u> | |
| • Sample Container Temperature | | |
| Container(s) used: | CONTAINER 1 <u>1 L NT bottle</u> | CONTAINER 2 |
| Uncorrected Temp (°C): | | |
| Corrected Temp (°C): | | |
| Exceptions Noted | | |
| 1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| 2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| NOTE: If yes, contact PM before proceeding. If no, proceed with login | | |
| Additional Comments | | |
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Cooler/Sample Receipt and Temperature Log Form

| Client Information | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| Client: <u>SCS</u> | | |
| City/State: <u>Clive</u> <small>CITY</small> <u>IA</u> <small>STATE</small> | Project: <u>Burlington Gen.</u> | |
| Receipt Information | | |
| Date/Time Received: <u>4/21/21</u> <small>DATE</small> <u>1640</u> <small>TIME</small> | Received By: <u>SJT</u> | |
| Delivery Type: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input checked="" type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____ | | |
| Condition of Cooler/Containers | | |
| Sample(s) received in Cooler? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If yes: Cooler ID: <u>AB-33</u> |
| Multiple Coolers? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If yes: Cooler # <u>4</u> of <u>45</u> <u>4/21/21</u> |
| Cooler Custody Seals Present? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If yes: Cooler custody seals intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| Sample Custody Seals Present? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Trip Blank Present? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If yes: Which VOA samples are in cooler? ↓ |
| <u>MW305, MW306 MW307A</u> | | |
| <u>MW307 MW308</u> | | |
| Temperature Record | | |
| Coolant: | <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE | |
| Thermometer ID: <u>N</u> | Correction Factor (°C): <u>0</u> | |
| • Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature. | | |
| Uncorrected Temp (°C): <u>1.6</u> | Corrected Temp (°C): <u>1.6</u> | |
| • Sample Container Temperature | | |
| Container(s) used: | <u>CONTAINER 1</u> | <u>CONTAINER 2</u> |
| Uncorrected Temp (°C): | | |
| Corrected Temp (°C): | | |
| Exceptions Noted | | |
| 1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| 2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| NOTE: If yes, contact PM before proceeding. If no, proceed with login | | |
| Additional Comments | | |
| | | |
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Place COC scanning label here

Cooler/Sample Receipt and Temperature Log Form

| | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| Client Information | | |
| Client: <u>SCS Engineers</u> | | |
| City/State: <u>CAVE</u> <small>CITY</small> | <u>IA</u> <small>STATE</small> | Project: <u>Burlington GenStation</u> |
| Receipt Information | | |
| Date/Time Received: <u>4/22/21</u> <small>DATE</small> <u>10:40</u> <small>TIME</small> | Received By: <u>CS</u> | |
| Delivery Type: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input checked="" type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____ | | |
| Condition of Cooler/Containers | | |
| Sample(s) received in Cooler? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If yes: Cooler ID: <u>4/22/21</u> |
| Multiple Coolers? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If yes: Cooler # <u>2</u> of <u>25</u> |
| Cooler Custody Seals Present? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If yes: Cooler custody seals intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| Sample Custody Seals Present? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Trip Blank Present? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If yes: Which VOA samples are in cooler? ↓ |
| | | |
| Temperature Record | | |
| Coolant: <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE | | |
| Thermometer ID: <u>Q</u> | Correction Factor (°C): <u>0.0</u> | |
| • Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature. | | |
| Uncorrected Temp (°C): <u>1.4</u> | Corrected Temp (°C): <u>1.4</u> | |
| • Sample Container Temperature | | |
| Container(s) used: | <u>CONTAINER 1</u> | <u>CONTAINER 2</u> |
| Uncorrected Temp (°C): | | |
| Corrected Temp (°C): | | |
| Exceptions Noted | | |
| 1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| 2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| NOTE: If yes, contact PM before proceeding. If no, proceed with login | | |
| Additional Comments | | |
| <u>Field blank MW-365, MW-310A</u> | | |
| <u>1L NT - Radium 226 on label</u> | | |

| | | | | | | | | | | | |
|--------------------------------------------------------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|----------------------------------------------------|-----------------------------------|----------------------------|--------------------------|--------------------------------------------|-------------------|-------------------|----------------------------|
| Client Information | | Sampler: <u>Tantien Buszka</u> | Lab P#: <u>Frederick, Sandie</u> | Carrier Tracking No(s): <u>310-60013-14654.1</u> | | | | | | | |
| Client Contact: <u>Tantien Buszka</u> | | Phone: <u>269-443-0855</u> | E-Mail: <u>sandra.frederick@eurofinsnet.com</u> | State of Origin: <u>Page 1 of 2</u> | | | | | | | |
| Company: <u>SCS Engineers</u> | | Job #: _____ | | | | | | | | | |
| Address: <u>8450 Hickman Road Suite Z7</u> | | Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: _____ M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify) _____ | | | | | | | | | |
| City: <u>Clive</u> | | Analysis Requested | | | | | | | | | |
| State, Zip: <u>IA, 50325</u> | | Total Number of Containers: _____ | | | | | | | | | |
| Phone: <u>269-443-0855</u> | | Special Instructions/Note: _____ | | | | | | | | | |
| Email: <u>tbuszka@scsengineers.com</u> | | Special Instructions/Note: _____ | | | | | | | | | |
| Project Name: <u>Burlington Gen Station 25221066</u> | | Special Instructions/Note: _____ | | | | | | | | | |
| Site: <u>B45</u> | | Special Instructions/Note: _____ | | | | | | | | | |
| Sample Identification | | Special Instructions/Note: _____ | | | | | | | | | |
| Sample ID | Sample Date | Sample Time | Sample Type (C=Comp, G=grab) | Matrix (W=water, S=solid, O=soil, B=tissue, A=air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 6020A - Metals - Hg (14) | 2540C - Calc, 9056A, ORGP, 28D, SM4500, H+ | 5030 - Radium 226 | 5040 - Radium 228 | Special Instructions/Note: |
| MW-301 | 4-19-21 | 11:40 | G | Water | Y | Y | X | X | X | X | |
| MW-302 | 4-19-21 | 13:50 | G | Water | Y | Y | X | X | X | X | |
| MW-302A | 4-19-21 | 13:15 | G | Water | Y | Y | X | X | X | X | |
| MW-303 | 4-19-21 | 15:55 | G | Water | Y | Y | X | X | X | X | |
| MW-304 | 4-19-21 | 17:00 | G | Water | Y | Y | X | X | X | X | |
| MW-305 | 4-20-21 | 14:00 | G | Water | Y | Y | X | X | X | X | |
| MW-306 | 4-19-21 | 12:20 | G | Water | Y | Y | X | X | X | X | |
| MW-307 | 4-20-21 | 10:30 | G | Water | Y | Y | X | X | X | X | |
| MW-307A | 4-20-21 | 9:35 | G | Water | Y | Y | X | X | X | X | |
| MW-308 | 4-20-21 | 7:45 | G | Water | Y | Y | X | X | X | X | |
| MW-309 | 4-19-21 | 10:20 | G | Water | Y | Y | X | X | X | X | |
| Possible Hazard Identification | | Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) | | | | | | | | | |
| <input type="checkbox"/> Non-Hazard | | <input checked="" type="checkbox"/> Return To Client | | | | | | | | | |
| <input type="checkbox"/> Flammable | | <input type="checkbox"/> Disposal By Lab | | | | | | | | | |
| <input type="checkbox"/> Skin Irritant | | <input type="checkbox"/> Archive For _____ Months | | | | | | | | | |
| <input type="checkbox"/> Unknown | | <input type="checkbox"/> Radiological | | | | | | | | | |
| Deliverable Requested: I, II, III, IV, Other (specify) | | Special Instructions/QC Requirements: | | | | | | | | | |
| Empty Kit Relinquished by | | Method of Shipment: | | | | | | | | | |
| Relinquished by: <u>Tantien Buszka</u> | | Received by: _____ | | | | | | | | | |
| Date/Time: <u>4-21-21 10:15</u> | | Date/Time: <u>4/21/21 1640</u> | | | | | | | | | |
| Company: <u>SCS</u> | | Company: _____ | | | | | | | | | |
| Relinquished by: | | Received by: | | | | | | | | | |
| Date/Time: | | Date/Time: | | | | | | | | | |
| Company: | | Company: | | | | | | | | | |
| Custody Seal No.: | | Cooler Temperature(s) °C and Other Remarks: | | | | | | | | | |
| Δ Yes Δ No | | | | | | | | | | | |

Chain of Custody Record

| Client Information | | Sampler: Tantien Buszka | | Lab P.M.: Fredrick, Sandie | | Carrier Tracking No(s): 310-60013-14654.2 | |
|------------------------------------------------------|-------------|------------------------------------------------------------------------------|------------------------------|--------------------------------------------------------------------|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Client Contact: Tantien Buszka | | Phone: 269.493.0855 | | E-Mail: sandra.fredrick@eurofins.net | | Page: Page 2 of 2 | |
| Company: SCS Engineers | | PWSID: | | State of Origin: | | Job #: | |
| Address: 8450 Hickman Road Suite 27 | | Due Date Requested: | | Analysis Requested: | | Preservation Codes: | |
| City: Clive | | TAT Requested (days): | | Field Filtered Sample (Yes or No) | | A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: | |
| State, Zip: IA, 50325 | | Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No | | 6020A - Metals - Hg (14) | | M - Hexane N - None O - AshNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - NCAAA W - pH 4-5 Z - other (specify) | |
| Phone: 269.493.0855 | | PO #: 25221066 | | 2540C - Calc'd, 9056A - ORGM, 26D, SM4500_H+ | | Total Number of Containers | |
| Email: tbuszka@scsengineers.com | | WOC #: 31011020 | | 900 - Radium 226 | | Special Instructions/Note: | |
| Project Name: Burlington Gen Station 25221066 | | Project #: 31011020 | | 900 - Radium 228 | | - See email from Meg/Sandy | |
| Site: Bus | | SSOW#: | | Field Filtered Sample (Yes or No) | | | |
| Sample Identification | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (W=water, S=solid, O=organic, M=metal, B=biological, A=air) | Preservation Code | Special Instructions/Note | |
| MW-310 | 4.19.21 | 7:50 | G | Water | W | | |
| MW-310A | 4.20.21 | 16:45 | G | Water | W | | |
| MW-311 | 4.19.21 | 8:50 | G | Water | W | | |
| MW-312 | 4.19.21 | 20:15 | G | Water | W | | |
| MW-313 | 4.19.21 | 18:20 | G | Water | W | | |
| MW-313A | 4.19.21 | 18:55 | G | Water | W | | |
| Field Blank | 4.20.21 | 15:00 | G | Water | W | | |

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

Deliverable Requested: I, II, III, IV, Other (specify)

Empty Kit Relinquished by: _____ Date: _____ Time: _____

Relinquished by: **Tantien Buszka** Date/Time: **4.21.21 10:15** Company: **SCS**

Relinquished by: _____ Date/Time: _____ Company: _____

Relinquished by: _____ Date/Time: _____ Company: _____

Custody Seals Intact: Yes No Custody Seal No.: _____

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/QC Requirements:

Received by: _____ Date/Time: **4/21/21 1640** Company: _____

Received by: _____ Date/Time: _____ Company: _____

Received by: _____ Date/Time: _____ Company: _____

Cooler Temperature(s) °C and Other Remarks:



Table 1. Sampling Points and Parameters - CCR Rule Sampling Program Assessment Monitoring
 Groundwater Monitoring - Burlington Generating Station / SCS Engineers Project #25221066

| Parameter | MW-301 | MW-302 | MW-302A | MW-303 | MW-304 | MW-305 | MW-306 | MW-307 | MW-307A | MW-308 | MW-309 | MW-310 | MW-310A | MW-311 | MW-312 | MW-313 | MW-313A | Field Blank | TOTAL | | |
|------------------------------------------------------|--------|--------|---------|--------|--------|--------|--------|--------|---------|--------|--------|--------|---------|--------|--------|--------|---------|-------------|-------|----|----|
| Appendix III Parameters | | | | | | | | | | | | | | | | | | | | | |
| Boron | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 18 | |
| Calcium | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 18 |
| Chloride | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 18 |
| Fluoride | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 18 |
| pH | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 18 |
| Sulfate | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 18 |
| TDS | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 18 |
| Appendix IV Parameters | | | | | | | | | | | | | | | | | | | | | |
| Antimony | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 18 |
| Arsenic | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 18 |
| Barium | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 18 |
| Beryllium | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 18 |
| Cadmium | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 18 |
| Chromium | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 18 |
| Cobalt | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 18 |
| Fluoride | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 18 |
| Lead | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 18 |
| Lithium | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 18 |
| Mercury | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 18 |
| Molybdenum | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 18 |
| Selenium | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 18 |
| Thallium | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 18 |
| Radium | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 18 |
| Field Parameters | | | | | | | | | | | | | | | | | | | | | |
| Ferrous Iron (ChemMetrics) | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 17 |
| Sulfide (ChemMetrics) | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 17 |
| Groundwater Elevation | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 17 |
| Well Depth | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 17 |
| pH (field) | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 17 |
| Specific Conductance | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 17 |
| Dissolved Oxygen | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 17 |
| ORP | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 17 |
| Temperature | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 17 |
| Turbidity | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 17 |
| Color | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 17 |
| Odor | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 17 |
| Additional Lab Parameters - REPORT SEPARATELY | | | | | | | | | | | | | | | | | | | | | |
| Bicarbonate (total) | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 17 |
| Carbonate (total) | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 17 |
| Iron (total) | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 17 |
| Magnesium (total) | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 17 |
| Manganese (total) | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 17 |
| Potassium (total) | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 17 |
| Sodium (total) | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 17 |
| Iron (filtered) | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 17 |
| Lithium (filtered) | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 10 |
| Manganese (filtered) | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 17 |
| Molybdenum (filtered) | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 12 |

Notes:

I:\25221066.00\Data and Calculations\Field Work Requests\Table_1_BGS_CCR_Rule_Sampling_2104.xls\$Sheet1



Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-204849-2

Login Number: 204849

List Source: Eurofins TestAmerica, Cedar Falls

List Number: 1

Creator: Homolar, Dana J

| Question | Answer | Comment |
|-----------------------------------------------------------------------------------------------------|--------|---------|
| Radioactivity wasn't checked or is \leq background as measured by a survey meter. | N/A | |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | N/A | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |



Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-204849-2

Login Number: 204849

List Number: 2

Creator: Worthington, Sierra M

List Source: Eurofins TestAmerica, St. Louis

List Creation: 04/26/21 08:18 AM

| Question | Answer | Comment |
|----------------------------------------------------------------------------------|--------|---------|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | True | |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |



Tracer/Carrier Summary

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-204849-2

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

| | | Percent Yield (Acceptance Limits) | |
|--------------------|------------------------|-----------------------------------|--|
| Lab Sample ID | Client Sample ID | Ba (40-110) | |
| 310-204849-1 | MW-301 | 86.1 | |
| 310-204849-2 | MW-302 | 84.5 | |
| 310-204849-3 | MW-302A | 80.3 | |
| 310-204849-4 | MW-303 | 88.5 | |
| 310-204849-5 | MW-304 | 81.2 | |
| 310-204849-6 | MW-305 | 76.7 | |
| 310-204849-7 | MW-306 | 77.9 | |
| 310-204849-8 | MW-307 | 85.2 | |
| 310-204849-9 | MW-307A | 91.5 | |
| 310-204849-10 | MW-308 | 87.9 | |
| 310-204849-11 | MW-309 | 92.7 | |
| 310-204849-12 | MW-310 | 87.9 | |
| 310-204849-14 | MW-311 | 84.2 | |
| 310-204849-15 | MW-312 | 89.1 | |
| 310-204849-16 | MW-313 | 87.3 | |
| 310-204849-17 | MW-313A | 90.3 | |
| 310-204849-18 | Field Blank | 87.0 | |
| 310-204849-19 | MW-310A | 76.4 | |
| LCS 160-507302/1-A | Lab Control Sample | 86.1 | |
| LCS 160-507512/1-A | Lab Control Sample | 83.9 | |
| LCS 160-507302/2-A | Lab Control Sample Dup | 85.5 | |
| LCS 160-507512/2-A | Lab Control Sample Dup | 83.6 | |
| MB 160-507302/23-A | Method Blank | 77.6 | |
| MB 160-507512/23-A | Method Blank | 79.7 | |

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

| | | Percent Yield (Acceptance Limits) | |
|---------------|------------------|-----------------------------------|---------------|
| Lab Sample ID | Client Sample ID | Ba (40-110) | Y (40-110) |
| 310-204849-1 | MW-301 | 86.1 | 83.7 |
| 310-204849-2 | MW-302 | 84.5 | 79.3 |
| 310-204849-3 | MW-302A | 80.3 | 80.4 |
| 310-204849-4 | MW-303 | 88.5 | 85.6 |
| 310-204849-5 | MW-304 | 81.2 | 83.0 |
| 310-204849-6 | MW-305 | 76.7 | 85.2 |
| 310-204849-7 | MW-306 | 77.9 | 80.7 |
| 310-204849-8 | MW-307 | 85.2 | 86.0 |
| 310-204849-9 | MW-307A | 91.5 | 87.1 |
| 310-204849-10 | MW-308 | 87.9 | 87.5 |
| 310-204849-11 | MW-309 | 92.7 | 89.3 |
| 310-204849-12 | MW-310 | 87.9 | 87.1 |
| 310-204849-14 | MW-311 | 84.2 | 87.1 |
| 310-204849-15 | MW-312 | 89.1 | 89.0 |
| 310-204849-16 | MW-313 | 87.3 | 86.7 |
| 310-204849-17 | MW-313A | 90.3 | 89.3 |

Tracer/Carrier Summary

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-204849-2

Method: 904.0 - Radium-228 (GFPC) (Continued)

Matrix: Water

Prep Type: Total/NA

Percent Yield (Acceptance Limits)

| Lab Sample ID | Client Sample ID | Ba (40-110) | Y (40-110) |
|---------------------|------------------------|----------------|---------------|
| 310-204849-18 | Field Blank | 87.0 | 91.6 |
| 310-204849-19 | MW-310A | 76.4 | 93.1 |
| LCS 160-507306/1-A | Lab Control Sample | 86.1 | 84.9 |
| LCS 160-507517/1-A | Lab Control Sample | 83.9 | 88.2 |
| LCSD 160-507306/2-A | Lab Control Sample Dup | 85.5 | 86.0 |
| LCSD 160-507517/2-A | Lab Control Sample Dup | 83.6 | 88.2 |
| MB 160-507306/23-A | Method Blank | 77.6 | 90.1 |
| MB 160-507517/23-A | Method Blank | 79.7 | 84.9 |

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

- 1
- 2
- 3
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- 7
- 8
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- 10
- 11
- 12
- 13
- 14
- 15

ANALYTICAL REPORT

Eurofins TestAmerica, Cedar Falls
3019 Venture Way
Cedar Falls, IA 50613
Tel: (319)277-2401

Laboratory Job ID: 310-204857-1
Client Project/Site: Burlington Gen Station 25221066

For:
SCS Engineers
2830 Dairy Drive
Madison, Wisconsin 53718

Attn: Meghan Blodgett



Authorized for release by:
5/3/2021 4:44:49 PM

Sandie Fredrick, Project Manager II
(920)261-1660
sandra.fredrick@eurofinset.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-204857-1

Job ID: 310-204857-1

Laboratory: Eurofins TestAmerica, Cedar Falls

Narrative

Job Narrative 310-204857-1

Comments

No additional comments.

Receipt

The samples were received on 4/21/2021 4:40 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.3° C and 1.4° C.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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- 13
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Sample Summary

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-204857-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Asset ID |
|---------------|------------------|--------|----------------|----------------|----------|
| 310-204857-1 | MW-301 | Water | 04/19/21 11:40 | 04/21/21 16:40 | |
| 310-204857-2 | MW-302 | Water | 04/19/21 13:50 | 04/21/21 16:40 | |
| 310-204857-3 | MW-302A | Water | 04/19/21 13:15 | 04/21/21 16:40 | |
| 310-204857-4 | MW-303 | Water | 04/19/21 15:55 | 04/21/21 16:40 | |
| 310-204857-5 | MW-304 | Water | 04/19/21 17:00 | 04/21/21 16:40 | |
| 310-204857-6 | MW-305 | Water | 04/20/21 14:00 | 04/21/21 16:40 | |
| 310-204857-7 | MW-306 | Water | 04/19/21 12:20 | 04/21/21 16:40 | |
| 310-204857-8 | MW-307 | Water | 04/20/21 10:30 | 04/21/21 16:40 | |
| 310-204857-9 | MW-307A | Water | 04/20/21 09:35 | 04/21/21 16:40 | |
| 310-204857-10 | MW-308 | Water | 04/20/21 07:45 | 04/21/21 16:40 | |
| 310-204857-11 | MW-309 | Water | 04/19/21 10:20 | 04/21/21 16:40 | |
| 310-204857-12 | MW-310 | Water | 04/19/21 07:30 | 04/21/21 16:40 | |
| 310-204857-13 | MW-310A | Water | 04/20/21 16:45 | 04/21/21 16:40 | |
| 310-204857-14 | MW-311 | Water | 04/19/21 08:50 | 04/21/21 16:40 | |
| 310-204857-15 | MW-312 | Water | 04/19/21 20:15 | 04/21/21 16:40 | |
| 310-204857-16 | MW-313 | Water | 04/19/21 18:20 | 04/21/21 16:40 | |
| 310-204857-17 | MW-313A | Water | 04/19/21 18:55 | 04/21/21 16:40 | |

Detection Summary

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-204857-1

Client Sample ID: MW-301

Lab Sample ID: 310-204857-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------------------------------|--------|-----------|------|-----|------|---------|---|----------|-----------|
| Iron | 41000 | | 100 | 36 | ug/L | 1 | | 6020A | Total/NA |
| Magnesium | 75000 | | 500 | 100 | ug/L | 1 | | 6020A | Total/NA |
| Manganese | 15000 | | 70 | 31 | ug/L | 7 | | 6020A | Total/NA |
| Potassium | 3700 | | 500 | 150 | ug/L | 1 | | 6020A | Total/NA |
| Sodium | 63000 | | 1000 | 610 | ug/L | 1 | | 6020A | Total/NA |
| Iron | 39000 | | 100 | 36 | ug/L | 1 | | 6020A | Dissolved |
| Manganese | 14000 | | 100 | 44 | ug/L | 10 | | 6020A | Dissolved |
| Molybdenum | 44 | | 2.0 | 1.3 | ug/L | 1 | | 6020A | Dissolved |
| Bicarbonate Alkalinity as CaCO3 | 720 | | 10 | 4.6 | mg/L | 1 | | SM 2320B | Total/NA |
| Total Alkalinity as CaCO3 | 720 | | 10 | 4.6 | mg/L | 1 | | SM 2320B | Total/NA |

Client Sample ID: MW-302

Lab Sample ID: 310-204857-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------------------------------|--------|-----------|------|-----|------|---------|---|----------|-----------|
| Iron | 2000 | | 100 | 36 | ug/L | 1 | | 6020A | Total/NA |
| Magnesium | 15000 | | 500 | 100 | ug/L | 1 | | 6020A | Total/NA |
| Manganese | 1200 | | 10 | 4.4 | ug/L | 1 | | 6020A | Total/NA |
| Potassium | 13000 | | 500 | 150 | ug/L | 1 | | 6020A | Total/NA |
| Sodium | 30000 | | 1000 | 610 | ug/L | 1 | | 6020A | Total/NA |
| Iron | 1600 | | 100 | 36 | ug/L | 1 | | 6020A | Dissolved |
| Lithium | 59 | | 10 | 2.5 | ug/L | 1 | | 6020A | Dissolved |
| Manganese | 1100 | | 10 | 4.4 | ug/L | 1 | | 6020A | Dissolved |
| Molybdenum | 120 | | 2.0 | 1.3 | ug/L | 1 | | 6020A | Dissolved |
| Bicarbonate Alkalinity as CaCO3 | 220 | | 10 | 4.6 | mg/L | 1 | | SM 2320B | Total/NA |
| Total Alkalinity as CaCO3 | 220 | | 10 | 4.6 | mg/L | 1 | | SM 2320B | Total/NA |

Client Sample ID: MW-302A

Lab Sample ID: 310-204857-3

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------------------------------|--------|-----------|------|-----|------|---------|---|----------|-----------|
| Iron | 8000 | | 100 | 36 | ug/L | 1 | | 6020A | Total/NA |
| Magnesium | 34000 | | 500 | 100 | ug/L | 1 | | 6020A | Total/NA |
| Manganese | 3600 | | 10 | 4.4 | ug/L | 1 | | 6020A | Total/NA |
| Potassium | 3500 | | 500 | 150 | ug/L | 1 | | 6020A | Total/NA |
| Sodium | 33000 | | 1000 | 610 | ug/L | 1 | | 6020A | Total/NA |
| Iron | 7500 | | 100 | 36 | ug/L | 1 | | 6020A | Dissolved |
| Lithium | 9.1 | J | 10 | 2.5 | ug/L | 1 | | 6020A | Dissolved |
| Manganese | 3500 | | 10 | 4.4 | ug/L | 1 | | 6020A | Dissolved |
| Molybdenum | 89 | | 2.0 | 1.3 | ug/L | 1 | | 6020A | Dissolved |
| Bicarbonate Alkalinity as CaCO3 | 190 | | 5.0 | 2.3 | mg/L | 1 | | SM 2320B | Total/NA |
| Total Alkalinity as CaCO3 | 190 | | 5.0 | 2.3 | mg/L | 1 | | SM 2320B | Total/NA |

Client Sample ID: MW-303

Lab Sample ID: 310-204857-4

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-----------|--------|-----------|------|-----|------|---------|---|--------|-----------|
| Iron | 7900 | | 100 | 36 | ug/L | 1 | | 6020A | Total/NA |
| Magnesium | 22000 | | 500 | 100 | ug/L | 1 | | 6020A | Total/NA |
| Manganese | 4000 | | 10 | 4.4 | ug/L | 1 | | 6020A | Total/NA |
| Potassium | 23000 | | 500 | 150 | ug/L | 1 | | 6020A | Total/NA |
| Sodium | 34000 | | 1000 | 610 | ug/L | 1 | | 6020A | Total/NA |
| Iron | 7500 | | 100 | 36 | ug/L | 1 | | 6020A | Dissolved |
| Lithium | 59 | | 10 | 2.5 | ug/L | 1 | | 6020A | Dissolved |
| Manganese | 3800 | | 10 | 4.4 | ug/L | 1 | | 6020A | Dissolved |

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Cedar Falls

Detection Summary

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-204857-1

Client Sample ID: MW-303 (Continued)

Lab Sample ID: 310-204857-4

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------------------------------|--------|-----------|-----|-----|------|---------|---|----------|-----------|
| Molybdenum | 110 | | 2.0 | 1.3 | ug/L | 1 | | 6020A | Dissolved |
| Bicarbonate Alkalinity as CaCO3 | 280 | | 10 | 4.6 | mg/L | 1 | | SM 2320B | Total/NA |
| Total Alkalinity as CaCO3 | 280 | | 10 | 4.6 | mg/L | 1 | | SM 2320B | Total/NA |

Client Sample ID: MW-304

Lab Sample ID: 310-204857-5

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------------------------------|--------|-----------|------|-----|------|---------|---|----------|-----------|
| Iron | 1500 | | 100 | 36 | ug/L | 1 | | 6020A | Total/NA |
| Magnesium | 6300 | | 500 | 100 | ug/L | 1 | | 6020A | Total/NA |
| Manganese | 710 | | 10 | 4.4 | ug/L | 1 | | 6020A | Total/NA |
| Potassium | 11000 | | 500 | 150 | ug/L | 1 | | 6020A | Total/NA |
| Sodium | 53000 | | 1000 | 610 | ug/L | 1 | | 6020A | Total/NA |
| Iron | 1300 | | 100 | 36 | ug/L | 1 | | 6020A | Dissolved |
| Lithium | 57 | | 10 | 2.5 | ug/L | 1 | | 6020A | Dissolved |
| Manganese | 680 | | 10 | 4.4 | ug/L | 1 | | 6020A | Dissolved |
| Molybdenum | 99 | | 2.0 | 1.3 | ug/L | 1 | | 6020A | Dissolved |
| Bicarbonate Alkalinity as CaCO3 | 150 | | 5.0 | 2.3 | mg/L | 1 | | SM 2320B | Total/NA |
| Total Alkalinity as CaCO3 | 150 | | 5.0 | 2.3 | mg/L | 1 | | SM 2320B | Total/NA |

Client Sample ID: MW-305

Lab Sample ID: 310-204857-6

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------------------------------|--------|-----------|------|-----|------|---------|---|----------|-----------|
| Iron | 1800 | | 100 | 36 | ug/L | 1 | | 6020A | Total/NA |
| Magnesium | 22000 | | 500 | 100 | ug/L | 1 | | 6020A | Total/NA |
| Manganese | 2100 | | 10 | 4.4 | ug/L | 1 | | 6020A | Total/NA |
| Potassium | 5500 | | 500 | 150 | ug/L | 1 | | 6020A | Total/NA |
| Sodium | 51000 | | 1000 | 610 | ug/L | 1 | | 6020A | Total/NA |
| Iron | 1700 | | 100 | 36 | ug/L | 1 | | 6020A | Dissolved |
| Manganese | 2000 | | 10 | 4.4 | ug/L | 1 | | 6020A | Dissolved |
| Bicarbonate Alkalinity as CaCO3 | 390 | | 9.4 | 4.3 | mg/L | 1 | | SM 2320B | Total/NA |
| Total Alkalinity as CaCO3 | 390 | | 9.4 | 4.3 | mg/L | 1 | | SM 2320B | Total/NA |

Client Sample ID: MW-306

Lab Sample ID: 310-204857-7

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-------------------------------|--------|-----------|------|-----|------|---------|---|----------|-----------|
| Potassium | 23000 | | 500 | 150 | ug/L | 1 | | 6020A | Total/NA |
| Sodium | 40000 | | 1000 | 610 | ug/L | 1 | | 6020A | Total/NA |
| Lithium | 41 | | 10 | 2.5 | ug/L | 1 | | 6020A | Dissolved |
| Carbonate Alkalinity as CaCO3 | 50 | | 5.0 | 2.3 | mg/L | 1 | | SM 2320B | Total/NA |
| Total Alkalinity as CaCO3 | 74 | | 5.0 | 2.3 | mg/L | 1 | | SM 2320B | Total/NA |

Client Sample ID: MW-307

Lab Sample ID: 310-204857-8

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-------------------------------|--------|-----------|------|-----|------|---------|---|----------|-----------|
| Manganese | 5.5 | J | 10 | 4.4 | ug/L | 1 | | 6020A | Total/NA |
| Potassium | 37000 | | 500 | 150 | ug/L | 1 | | 6020A | Total/NA |
| Sodium | 53000 | | 1000 | 610 | ug/L | 1 | | 6020A | Total/NA |
| Lithium | 51 | | 10 | 2.5 | ug/L | 1 | | 6020A | Dissolved |
| Manganese | 5.1 | J | 10 | 4.4 | ug/L | 1 | | 6020A | Dissolved |
| Molybdenum | 140 | | 2.0 | 1.3 | ug/L | 1 | | 6020A | Dissolved |
| Carbonate Alkalinity as CaCO3 | 79 | | 10 | 4.6 | mg/L | 1 | | SM 2320B | Total/NA |
| Total Alkalinity as CaCO3 | 89 | | 10 | 4.6 | mg/L | 1 | | SM 2320B | Total/NA |

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Cedar Falls

Detection Summary

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-204857-1

Client Sample ID: MW-307A

Lab Sample ID: 310-204857-9

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------------------------------|--------|-----------|------|-----|------|---------|---|----------|-----------|
| Iron | 500 | | 100 | 36 | ug/L | 1 | | 6020A | Total/NA |
| Magnesium | 1600 | | 500 | 100 | ug/L | 1 | | 6020A | Total/NA |
| Manganese | 410 | | 10 | 4.4 | ug/L | 1 | | 6020A | Total/NA |
| Potassium | 3100 | | 500 | 150 | ug/L | 1 | | 6020A | Total/NA |
| Sodium | 110000 | | 1000 | 610 | ug/L | 1 | | 6020A | Total/NA |
| Iron | 430 | | 100 | 36 | ug/L | 1 | | 6020A | Dissolved |
| Lithium | 8.3 | J | 10 | 2.5 | ug/L | 1 | | 6020A | Dissolved |
| Manganese | 390 | | 10 | 4.4 | ug/L | 1 | | 6020A | Dissolved |
| Molybdenum | 120 | | 2.0 | 1.3 | ug/L | 1 | | 6020A | Dissolved |
| Bicarbonate Alkalinity as CaCO3 | 93 | | 5.0 | 2.3 | mg/L | 1 | | SM 2320B | Total/NA |
| Total Alkalinity as CaCO3 | 93 | | 5.0 | 2.3 | mg/L | 1 | | SM 2320B | Total/NA |

Client Sample ID: MW-308

Lab Sample ID: 310-204857-10

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------------------------------|--------|-----------|------|-----|------|---------|---|----------|-----------|
| Magnesium | 1800 | | 500 | 100 | ug/L | 1 | | 6020A | Total/NA |
| Manganese | 250 | | 10 | 4.4 | ug/L | 1 | | 6020A | Total/NA |
| Potassium | 37000 | | 500 | 150 | ug/L | 1 | | 6020A | Total/NA |
| Sodium | 88000 | | 1000 | 610 | ug/L | 1 | | 6020A | Total/NA |
| Lithium | 51 | | 10 | 2.5 | ug/L | 1 | | 6020A | Dissolved |
| Manganese | 250 | | 10 | 4.4 | ug/L | 1 | | 6020A | Dissolved |
| Molybdenum | 110 | | 2.0 | 1.3 | ug/L | 1 | | 6020A | Dissolved |
| Bicarbonate Alkalinity as CaCO3 | 38 | | 9.1 | 4.2 | mg/L | 1 | | SM 2320B | Total/NA |
| Carbonate Alkalinity as CaCO3 | 75 | | 9.1 | 4.2 | mg/L | 1 | | SM 2320B | Total/NA |
| Total Alkalinity as CaCO3 | 110 | | 9.1 | 4.2 | mg/L | 1 | | SM 2320B | Total/NA |

Client Sample ID: MW-309

Lab Sample ID: 310-204857-11

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------------------------------|--------|-----------|------|-----|------|---------|---|----------|-----------|
| Iron | 14000 | | 100 | 36 | ug/L | 1 | | 6020A | Total/NA |
| Magnesium | 24000 | | 500 | 100 | ug/L | 1 | | 6020A | Total/NA |
| Manganese | 3700 | | 10 | 4.4 | ug/L | 1 | | 6020A | Total/NA |
| Potassium | 2900 | | 500 | 150 | ug/L | 1 | | 6020A | Total/NA |
| Sodium | 100000 | | 1000 | 610 | ug/L | 1 | | 6020A | Total/NA |
| Iron | 12000 | | 100 | 36 | ug/L | 1 | | 6020A | Dissolved |
| Manganese | 3700 | | 10 | 4.4 | ug/L | 1 | | 6020A | Dissolved |
| Molybdenum | 49 | | 2.0 | 1.3 | ug/L | 1 | | 6020A | Dissolved |
| Bicarbonate Alkalinity as CaCO3 | 310 | | 10 | 4.6 | mg/L | 1 | | SM 2320B | Total/NA |
| Total Alkalinity as CaCO3 | 310 | | 10 | 4.6 | mg/L | 1 | | SM 2320B | Total/NA |

Client Sample ID: MW-310

Lab Sample ID: 310-204857-12

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------------------------------|--------|-----------|------|-----|------|---------|---|----------|-----------|
| Iron | 20000 | | 100 | 36 | ug/L | 1 | | 6020A | Total/NA |
| Magnesium | 25000 | | 500 | 100 | ug/L | 1 | | 6020A | Total/NA |
| Manganese | 4300 | | 40 | 18 | ug/L | 4 | | 6020A | Total/NA |
| Potassium | 2100 | | 500 | 150 | ug/L | 1 | | 6020A | Total/NA |
| Sodium | 11000 | | 1000 | 610 | ug/L | 1 | | 6020A | Total/NA |
| Iron | 20000 | | 100 | 36 | ug/L | 1 | | 6020A | Dissolved |
| Manganese | 4200 | | 40 | 18 | ug/L | 4 | | 6020A | Dissolved |
| Bicarbonate Alkalinity as CaCO3 | 310 | | 10 | 4.6 | mg/L | 1 | | SM 2320B | Total/NA |
| Total Alkalinity as CaCO3 | 310 | | 10 | 4.6 | mg/L | 1 | | SM 2320B | Total/NA |

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Cedar Falls

Detection Summary

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-204857-1

Client Sample ID: MW-310A

Lab Sample ID: 310-204857-13

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------------------------------|--------|-----------|------|-----|------|---------|---|----------|-----------|
| Iron | 1000 | | 100 | 36 | ug/L | 1 | | 6020A | Total/NA |
| Magnesium | 21000 | | 500 | 100 | ug/L | 1 | | 6020A | Total/NA |
| Manganese | 250 | | 10 | 4.4 | ug/L | 1 | | 6020A | Total/NA |
| Potassium | 5900 | | 500 | 150 | ug/L | 1 | | 6020A | Total/NA |
| Sodium | 180000 | | 1000 | 610 | ug/L | 1 | | 6020A | Total/NA |
| Manganese | 240 | | 10 | 4.4 | ug/L | 1 | | 6020A | Dissolved |
| Bicarbonate Alkalinity as CaCO3 | 410 | | 10 | 4.6 | mg/L | 1 | | SM 2320B | Total/NA |
| Total Alkalinity as CaCO3 | 410 | | 10 | 4.6 | mg/L | 1 | | SM 2320B | Total/NA |

Client Sample ID: MW-311

Lab Sample ID: 310-204857-14

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------------------------------|--------|-----------|------|-----|------|---------|---|----------|-----------|
| Iron | 20000 | | 100 | 36 | ug/L | 1 | | 6020A | Total/NA |
| Magnesium | 39000 | | 500 | 100 | ug/L | 1 | | 6020A | Total/NA |
| Manganese | 5600 | | 40 | 18 | ug/L | 4 | | 6020A | Total/NA |
| Potassium | 2300 | | 500 | 150 | ug/L | 1 | | 6020A | Total/NA |
| Sodium | 62000 | | 1000 | 610 | ug/L | 1 | | 6020A | Total/NA |
| Iron | 20000 | | 100 | 36 | ug/L | 1 | | 6020A | Dissolved |
| Manganese | 5600 | | 40 | 18 | ug/L | 4 | | 6020A | Dissolved |
| Bicarbonate Alkalinity as CaCO3 | 390 | | 10 | 4.6 | mg/L | 1 | | SM 2320B | Total/NA |
| Total Alkalinity as CaCO3 | 390 | | 10 | 4.6 | mg/L | 1 | | SM 2320B | Total/NA |

Client Sample ID: MW-312

Lab Sample ID: 310-204857-15

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------------------------------|--------|-----------|------|-----|------|---------|---|----------|-----------|
| Iron | 11000 | | 100 | 36 | ug/L | 1 | | 6020A | Total/NA |
| Magnesium | 13000 | | 500 | 100 | ug/L | 1 | | 6020A | Total/NA |
| Manganese | 8900 | | 70 | 31 | ug/L | 7 | | 6020A | Total/NA |
| Potassium | 11000 | | 500 | 150 | ug/L | 1 | | 6020A | Total/NA |
| Sodium | 76000 | | 1000 | 610 | ug/L | 1 | | 6020A | Total/NA |
| Iron | 11000 | | 100 | 36 | ug/L | 1 | | 6020A | Dissolved |
| Manganese | 7800 | | 40 | 18 | ug/L | 4 | | 6020A | Dissolved |
| Molybdenum | 300 | | 2.0 | 1.3 | ug/L | 1 | | 6020A | Dissolved |
| Bicarbonate Alkalinity as CaCO3 | 190 | | 9.1 | 4.2 | mg/L | 1 | | SM 2320B | Total/NA |
| Total Alkalinity as CaCO3 | 190 | | 9.1 | 4.2 | mg/L | 1 | | SM 2320B | Total/NA |

Client Sample ID: MW-313

Lab Sample ID: 310-204857-16

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------------------------------|--------|-----------|------|-----|------|---------|---|----------|-----------|
| Iron | 18000 | | 100 | 36 | ug/L | 1 | | 6020A | Total/NA |
| Magnesium | 29000 | | 500 | 100 | ug/L | 1 | | 6020A | Total/NA |
| Manganese | 8700 | | 70 | 31 | ug/L | 7 | | 6020A | Total/NA |
| Potassium | 9900 | | 500 | 150 | ug/L | 1 | | 6020A | Total/NA |
| Sodium | 75000 | | 1000 | 610 | ug/L | 1 | | 6020A | Total/NA |
| Iron | 18000 | | 100 | 36 | ug/L | 1 | | 6020A | Dissolved |
| Lithium | 36 | | 10 | 2.5 | ug/L | 1 | | 6020A | Dissolved |
| Manganese | 8400 | | 40 | 18 | ug/L | 4 | | 6020A | Dissolved |
| Molybdenum | 140 | | 2.0 | 1.3 | ug/L | 1 | | 6020A | Dissolved |
| Bicarbonate Alkalinity as CaCO3 | 190 | | 10 | 4.6 | mg/L | 1 | | SM 2320B | Total/NA |
| Total Alkalinity as CaCO3 | 190 | | 10 | 4.6 | mg/L | 1 | | SM 2320B | Total/NA |

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Cedar Falls

Detection Summary

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-204857-1

Client Sample ID: MW-313A

Lab Sample ID: 310-204857-17

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------------------------------|--------|-----------|------|-----|------|---------|---|----------|-----------|
| Iron | 1500 | | 100 | 36 | ug/L | 1 | | 6020A | Total/NA |
| Magnesium | 3900 | | 500 | 100 | ug/L | 1 | | 6020A | Total/NA |
| Manganese | 600 | | 10 | 4.4 | ug/L | 1 | | 6020A | Total/NA |
| Potassium | 11000 | | 500 | 150 | ug/L | 1 | | 6020A | Total/NA |
| Sodium | 150000 | | 1000 | 610 | ug/L | 1 | | 6020A | Total/NA |
| Iron | 1400 | | 100 | 36 | ug/L | 1 | | 6020A | Dissolved |
| Lithium | 14 | | 10 | 2.5 | ug/L | 1 | | 6020A | Dissolved |
| Manganese | 600 | | 10 | 4.4 | ug/L | 1 | | 6020A | Dissolved |
| Molybdenum | 100 | | 2.0 | 1.3 | ug/L | 1 | | 6020A | Dissolved |
| Bicarbonate Alkalinity as CaCO3 | 97 | | 9.4 | 4.3 | mg/L | 1 | | SM 2320B | Total/NA |
| Total Alkalinity as CaCO3 | 97 | | 9.4 | 4.3 | mg/L | 1 | | SM 2320B | Total/NA |

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Cedar Falls

Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-204857-1

Client Sample ID: MW-301

Lab Sample ID: 310-204857-1

Date Collected: 04/19/21 11:40

Matrix: Water

Date Received: 04/21/21 16:40

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-----|------|---|----------------|----------------|---------|
| Iron | 41000 | | 100 | 36 | ug/L | | 04/23/21 09:00 | 04/27/21 20:06 | 1 |
| Magnesium | 75000 | | 500 | 100 | ug/L | | 04/23/21 09:00 | 04/27/21 20:06 | 1 |
| Manganese | 15000 | | 70 | 31 | ug/L | | 04/23/21 09:00 | 04/28/21 12:34 | 7 |
| Potassium | 3700 | | 500 | 150 | ug/L | | 04/23/21 09:00 | 04/27/21 20:06 | 1 |
| Sodium | 63000 | | 1000 | 610 | ug/L | | 04/23/21 09:00 | 04/27/21 20:06 | 1 |

Method: 6020A - Metals (ICP/MS) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Iron | 39000 | | 100 | 36 | ug/L | | 04/22/21 15:51 | 04/30/21 16:33 | 1 |
| Manganese | 14000 | | 100 | 44 | ug/L | | 04/22/21 15:51 | 05/03/21 14:30 | 10 |
| Molybdenum | 44 | | 2.0 | 1.3 | ug/L | | 04/22/21 15:51 | 04/30/21 16:33 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Bicarbonate Alkalinity as CaCO3 | 720 | | 10 | 4.6 | mg/L | | | 04/29/21 12:04 | 1 |
| Carbonate Alkalinity as CaCO3 | <4.6 | | 10 | 4.6 | mg/L | | | 04/29/21 12:04 | 1 |
| Total Alkalinity as CaCO3 | 720 | | 10 | 4.6 | mg/L | | | 04/29/21 12:04 | 1 |

- 1
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- 14

Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-204857-1

Client Sample ID: MW-302

Lab Sample ID: 310-204857-2

Date Collected: 04/19/21 13:50

Matrix: Water

Date Received: 04/21/21 16:40

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-----|------|---|----------------|----------------|---------|
| Iron | 2000 | | 100 | 36 | ug/L | | 04/23/21 09:00 | 04/27/21 20:17 | 1 |
| Magnesium | 15000 | | 500 | 100 | ug/L | | 04/23/21 09:00 | 04/27/21 20:17 | 1 |
| Manganese | 1200 | | 10 | 4.4 | ug/L | | 04/23/21 09:00 | 04/27/21 20:17 | 1 |
| Potassium | 13000 | | 500 | 150 | ug/L | | 04/23/21 09:00 | 04/27/21 20:17 | 1 |
| Sodium | 30000 | | 1000 | 610 | ug/L | | 04/23/21 09:00 | 04/27/21 20:17 | 1 |

Method: 6020A - Metals (ICP/MS) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Iron | 1600 | | 100 | 36 | ug/L | | 04/22/21 15:51 | 04/30/21 16:43 | 1 |
| Lithium | 59 | | 10 | 2.5 | ug/L | | 04/22/21 15:51 | 04/30/21 16:43 | 1 |
| Manganese | 1100 | | 10 | 4.4 | ug/L | | 04/22/21 15:51 | 04/30/21 16:43 | 1 |
| Molybdenum | 120 | | 2.0 | 1.3 | ug/L | | 04/22/21 15:51 | 04/30/21 16:43 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Bicarbonate Alkalinity as CaCO3 | 220 | | 10 | 4.6 | mg/L | | | 04/29/21 12:04 | 1 |
| Carbonate Alkalinity as CaCO3 | <4.6 | | 10 | 4.6 | mg/L | | | 04/29/21 12:04 | 1 |
| Total Alkalinity as CaCO3 | 220 | | 10 | 4.6 | mg/L | | | 04/29/21 12:04 | 1 |



Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-204857-1

Client Sample ID: MW-302A

Lab Sample ID: 310-204857-3

Date Collected: 04/19/21 13:15

Matrix: Water

Date Received: 04/21/21 16:40

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-----|------|---|----------------|----------------|---------|
| Iron | 8000 | | 100 | 36 | ug/L | | 04/23/21 09:00 | 04/27/21 20:19 | 1 |
| Magnesium | 34000 | | 500 | 100 | ug/L | | 04/23/21 09:00 | 04/27/21 20:19 | 1 |
| Manganese | 3600 | | 10 | 4.4 | ug/L | | 04/23/21 09:00 | 04/27/21 20:19 | 1 |
| Potassium | 3500 | | 500 | 150 | ug/L | | 04/23/21 09:00 | 04/27/21 20:19 | 1 |
| Sodium | 33000 | | 1000 | 610 | ug/L | | 04/23/21 09:00 | 04/27/21 20:19 | 1 |

Method: 6020A - Metals (ICP/MS) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Iron | 7500 | | 100 | 36 | ug/L | | 04/22/21 15:51 | 04/30/21 16:46 | 1 |
| Lithium | 9.1 | J | 10 | 2.5 | ug/L | | 04/22/21 15:51 | 04/30/21 16:46 | 1 |
| Manganese | 3500 | | 10 | 4.4 | ug/L | | 04/22/21 15:51 | 04/30/21 16:46 | 1 |
| Molybdenum | 89 | | 2.0 | 1.3 | ug/L | | 04/22/21 15:51 | 04/30/21 16:46 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Bicarbonate Alkalinity as CaCO3 | 190 | | 5.0 | 2.3 | mg/L | | | 04/29/21 12:04 | 1 |
| Carbonate Alkalinity as CaCO3 | <2.3 | | 5.0 | 2.3 | mg/L | | | 04/29/21 12:04 | 1 |
| Total Alkalinity as CaCO3 | 190 | | 5.0 | 2.3 | mg/L | | | 04/29/21 12:04 | 1 |

Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-204857-1

Client Sample ID: MW-303

Lab Sample ID: 310-204857-4

Date Collected: 04/19/21 15:55

Matrix: Water

Date Received: 04/21/21 16:40

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-----|------|---|----------------|----------------|---------|
| Iron | 7900 | | 100 | 36 | ug/L | | 04/23/21 09:00 | 04/27/21 20:22 | 1 |
| Magnesium | 22000 | | 500 | 100 | ug/L | | 04/23/21 09:00 | 04/27/21 20:22 | 1 |
| Manganese | 4000 | | 10 | 4.4 | ug/L | | 04/23/21 09:00 | 04/27/21 20:22 | 1 |
| Potassium | 23000 | | 500 | 150 | ug/L | | 04/23/21 09:00 | 04/27/21 20:22 | 1 |
| Sodium | 34000 | | 1000 | 610 | ug/L | | 04/23/21 09:00 | 04/27/21 20:22 | 1 |

Method: 6020A - Metals (ICP/MS) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Iron | 7500 | | 100 | 36 | ug/L | | 04/22/21 15:51 | 04/30/21 16:48 | 1 |
| Lithium | 59 | | 10 | 2.5 | ug/L | | 04/22/21 15:51 | 04/30/21 16:48 | 1 |
| Manganese | 3800 | | 10 | 4.4 | ug/L | | 04/22/21 15:51 | 04/30/21 16:48 | 1 |
| Molybdenum | 110 | | 2.0 | 1.3 | ug/L | | 04/22/21 15:51 | 04/30/21 16:48 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Bicarbonate Alkalinity as CaCO3 | 280 | | 10 | 4.6 | mg/L | | | 04/29/21 12:04 | 1 |
| Carbonate Alkalinity as CaCO3 | <4.6 | | 10 | 4.6 | mg/L | | | 04/29/21 12:04 | 1 |
| Total Alkalinity as CaCO3 | 280 | | 10 | 4.6 | mg/L | | | 04/29/21 12:04 | 1 |

Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-204857-1

Client Sample ID: MW-304

Lab Sample ID: 310-204857-5

Date Collected: 04/19/21 17:00

Matrix: Water

Date Received: 04/21/21 16:40

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-----|------|---|----------------|----------------|---------|
| Iron | 1500 | | 100 | 36 | ug/L | | 04/23/21 09:00 | 04/27/21 20:24 | 1 |
| Magnesium | 6300 | | 500 | 100 | ug/L | | 04/23/21 09:00 | 04/27/21 20:24 | 1 |
| Manganese | 710 | | 10 | 4.4 | ug/L | | 04/23/21 09:00 | 04/27/21 20:24 | 1 |
| Potassium | 11000 | | 500 | 150 | ug/L | | 04/23/21 09:00 | 04/27/21 20:24 | 1 |
| Sodium | 53000 | | 1000 | 610 | ug/L | | 04/23/21 09:00 | 04/27/21 20:24 | 1 |

Method: 6020A - Metals (ICP/MS) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Iron | 1300 | | 100 | 36 | ug/L | | 04/22/21 15:51 | 04/30/21 16:51 | 1 |
| Lithium | 57 | | 10 | 2.5 | ug/L | | 04/22/21 15:51 | 04/30/21 16:51 | 1 |
| Manganese | 680 | | 10 | 4.4 | ug/L | | 04/22/21 15:51 | 04/30/21 16:51 | 1 |
| Molybdenum | 99 | | 2.0 | 1.3 | ug/L | | 04/22/21 15:51 | 04/30/21 16:51 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Bicarbonate Alkalinity as CaCO3 | 150 | | 5.0 | 2.3 | mg/L | | | 04/29/21 12:04 | 1 |
| Carbonate Alkalinity as CaCO3 | <2.3 | | 5.0 | 2.3 | mg/L | | | 04/29/21 12:04 | 1 |
| Total Alkalinity as CaCO3 | 150 | | 5.0 | 2.3 | mg/L | | | 04/29/21 12:04 | 1 |



Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-204857-1

Client Sample ID: MW-305

Lab Sample ID: 310-204857-6

Date Collected: 04/20/21 14:00

Matrix: Water

Date Received: 04/21/21 16:40

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-----|------|---|----------------|----------------|---------|
| Iron | 1800 | | 100 | 36 | ug/L | | 04/23/21 09:00 | 04/27/21 20:27 | 1 |
| Magnesium | 22000 | | 500 | 100 | ug/L | | 04/23/21 09:00 | 04/27/21 20:27 | 1 |
| Manganese | 2100 | | 10 | 4.4 | ug/L | | 04/23/21 09:00 | 04/27/21 20:27 | 1 |
| Potassium | 5500 | | 500 | 150 | ug/L | | 04/23/21 09:00 | 04/27/21 20:27 | 1 |
| Sodium | 51000 | | 1000 | 610 | ug/L | | 04/23/21 09:00 | 04/27/21 20:27 | 1 |

Method: 6020A - Metals (ICP/MS) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Iron | 1700 | | 100 | 36 | ug/L | | 04/22/21 15:51 | 04/30/21 16:53 | 1 |
| Manganese | 2000 | | 10 | 4.4 | ug/L | | 04/22/21 15:51 | 04/30/21 16:53 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Bicarbonate Alkalinity as CaCO3 | 390 | | 9.4 | 4.3 | mg/L | | | 04/30/21 13:45 | 1 |
| Carbonate Alkalinity as CaCO3 | <4.3 | | 9.4 | 4.3 | mg/L | | | 04/30/21 13:45 | 1 |
| Total Alkalinity as CaCO3 | 390 | | 9.4 | 4.3 | mg/L | | | 04/30/21 13:45 | 1 |

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Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-204857-1

Client Sample ID: MW-306

Lab Sample ID: 310-204857-7

Date Collected: 04/19/21 12:20

Matrix: Water

Date Received: 04/21/21 16:40

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|------|-----|------|---|----------------|----------------|---------|
| Iron | <36 | | 100 | 36 | ug/L | | 04/23/21 09:00 | 04/27/21 20:43 | 1 |
| Magnesium | <100 | | 500 | 100 | ug/L | | 04/23/21 09:00 | 04/27/21 20:43 | 1 |
| Manganese | <4.4 | | 10 | 4.4 | ug/L | | 04/23/21 09:00 | 04/27/21 20:43 | 1 |
| Potassium | 23000 | | 500 | 150 | ug/L | | 04/23/21 09:00 | 04/27/21 20:43 | 1 |
| Sodium | 40000 | | 1000 | 610 | ug/L | | 04/23/21 09:00 | 04/27/21 20:43 | 1 |

Method: 6020A - Metals (ICP/MS) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Iron | <36 | | 100 | 36 | ug/L | | 04/22/21 15:51 | 04/30/21 17:06 | 1 |
| Lithium | 41 | | 10 | 2.5 | ug/L | | 04/22/21 15:51 | 04/30/21 17:06 | 1 |
| Manganese | <4.4 | | 10 | 4.4 | ug/L | | 04/22/21 15:51 | 04/30/21 17:06 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-----------|-----------|-----|-----|------|---|----------|----------------|---------|
| Bicarbonate Alkalinity as CaCO3 | <2.3 | | 5.0 | 2.3 | mg/L | | | 04/29/21 12:04 | 1 |
| Carbonate Alkalinity as CaCO3 | 50 | | 5.0 | 2.3 | mg/L | | | 04/29/21 12:04 | 1 |
| Total Alkalinity as CaCO3 | 74 | | 5.0 | 2.3 | mg/L | | | 04/29/21 12:04 | 1 |

Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-204857-1

Client Sample ID: MW-307

Lab Sample ID: 310-204857-8

Date Collected: 04/20/21 10:30

Matrix: Water

Date Received: 04/21/21 16:40

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|------|-----|------|---|----------------|----------------|---------|
| Iron | <36 | | 100 | 36 | ug/L | | 04/23/21 09:00 | 04/27/21 20:45 | 1 |
| Magnesium | <100 | | 500 | 100 | ug/L | | 04/23/21 09:00 | 04/27/21 20:45 | 1 |
| Manganese | 5.5 | J | 10 | 4.4 | ug/L | | 04/23/21 09:00 | 04/27/21 20:45 | 1 |
| Potassium | 37000 | | 500 | 150 | ug/L | | 04/23/21 09:00 | 04/27/21 20:45 | 1 |
| Sodium | 53000 | | 1000 | 610 | ug/L | | 04/23/21 09:00 | 04/27/21 20:45 | 1 |

Method: 6020A - Metals (ICP/MS) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------|------------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Iron | <36 | | 100 | 36 | ug/L | | 04/22/21 15:51 | 04/30/21 17:09 | 1 |
| Lithium | 51 | | 10 | 2.5 | ug/L | | 04/22/21 15:51 | 04/30/21 17:09 | 1 |
| Manganese | 5.1 | J | 10 | 4.4 | ug/L | | 04/22/21 15:51 | 04/30/21 17:09 | 1 |
| Molybdenum | 140 | | 2.0 | 1.3 | ug/L | | 04/22/21 15:51 | 04/30/21 17:09 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-----------|-----------|----|-----|------|---|----------|----------------|---------|
| Bicarbonate Alkalinity as CaCO3 | <4.6 | | 10 | 4.6 | mg/L | | | 04/29/21 15:28 | 1 |
| Carbonate Alkalinity as CaCO3 | 79 | | 10 | 4.6 | mg/L | | | 04/29/21 15:28 | 1 |
| Total Alkalinity as CaCO3 | 89 | | 10 | 4.6 | mg/L | | | 04/29/21 15:28 | 1 |

Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-204857-1

Client Sample ID: MW-307A

Lab Sample ID: 310-204857-9

Date Collected: 04/20/21 09:35

Matrix: Water

Date Received: 04/21/21 16:40

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-----|------|---|----------------|----------------|---------|
| Iron | 500 | | 100 | 36 | ug/L | | 04/23/21 09:00 | 04/27/21 20:48 | 1 |
| Magnesium | 1600 | | 500 | 100 | ug/L | | 04/23/21 09:00 | 04/27/21 20:48 | 1 |
| Manganese | 410 | | 10 | 4.4 | ug/L | | 04/23/21 09:00 | 04/27/21 20:48 | 1 |
| Potassium | 3100 | | 500 | 150 | ug/L | | 04/23/21 09:00 | 04/27/21 20:48 | 1 |
| Sodium | 110000 | | 1000 | 610 | ug/L | | 04/23/21 09:00 | 04/27/21 20:48 | 1 |

Method: 6020A - Metals (ICP/MS) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Iron | 430 | | 100 | 36 | ug/L | | 04/22/21 15:51 | 04/30/21 17:12 | 1 |
| Lithium | 8.3 | J | 10 | 2.5 | ug/L | | 04/22/21 15:51 | 04/30/21 17:12 | 1 |
| Manganese | 390 | | 10 | 4.4 | ug/L | | 04/22/21 15:51 | 04/30/21 17:12 | 1 |
| Molybdenum | 120 | | 2.0 | 1.3 | ug/L | | 04/22/21 15:51 | 04/30/21 17:12 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Bicarbonate Alkalinity as CaCO3 | 93 | | 5.0 | 2.3 | mg/L | | | 04/30/21 13:45 | 1 |
| Carbonate Alkalinity as CaCO3 | <2.3 | | 5.0 | 2.3 | mg/L | | | 04/30/21 13:45 | 1 |
| Total Alkalinity as CaCO3 | 93 | | 5.0 | 2.3 | mg/L | | | 04/30/21 13:45 | 1 |

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Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-204857-1

Client Sample ID: MW-308

Lab Sample ID: 310-204857-10

Date Collected: 04/20/21 07:45

Matrix: Water

Date Received: 04/21/21 16:40

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|------|-----|------|---|----------------|----------------|---------|
| Iron | <36 | | 100 | 36 | ug/L | | 04/23/21 09:00 | 04/27/21 20:51 | 1 |
| Magnesium | 1800 | | 500 | 100 | ug/L | | 04/23/21 09:00 | 04/27/21 20:51 | 1 |
| Manganese | 250 | | 10 | 4.4 | ug/L | | 04/23/21 09:00 | 04/27/21 20:51 | 1 |
| Potassium | 37000 | | 500 | 150 | ug/L | | 04/23/21 09:00 | 04/27/21 20:51 | 1 |
| Sodium | 88000 | | 1000 | 610 | ug/L | | 04/23/21 09:00 | 04/27/21 20:51 | 1 |

Method: 6020A - Metals (ICP/MS) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------|------------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Iron | <36 | | 100 | 36 | ug/L | | 04/22/21 15:51 | 04/30/21 17:14 | 1 |
| Lithium | 51 | | 10 | 2.5 | ug/L | | 04/22/21 15:51 | 04/30/21 17:14 | 1 |
| Manganese | 250 | | 10 | 4.4 | ug/L | | 04/22/21 15:51 | 04/30/21 17:14 | 1 |
| Molybdenum | 110 | | 2.0 | 1.3 | ug/L | | 04/22/21 15:51 | 04/30/21 17:14 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------------------|------------|-----------|-----|-----|------|---|----------|----------------|---------|
| Bicarbonate Alkalinity as CaCO3 | 38 | | 9.1 | 4.2 | mg/L | | | 04/30/21 13:45 | 1 |
| Carbonate Alkalinity as CaCO3 | 75 | | 9.1 | 4.2 | mg/L | | | 04/30/21 13:45 | 1 |
| Total Alkalinity as CaCO3 | 110 | | 9.1 | 4.2 | mg/L | | | 04/30/21 13:45 | 1 |

Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-204857-1

Client Sample ID: MW-309

Lab Sample ID: 310-204857-11

Date Collected: 04/19/21 10:20

Matrix: Water

Date Received: 04/21/21 16:40

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-----|------|---|----------------|----------------|---------|
| Iron | 14000 | | 100 | 36 | ug/L | | 04/23/21 09:00 | 04/27/21 20:53 | 1 |
| Magnesium | 24000 | | 500 | 100 | ug/L | | 04/23/21 09:00 | 04/27/21 20:53 | 1 |
| Manganese | 3700 | | 10 | 4.4 | ug/L | | 04/23/21 09:00 | 04/27/21 20:53 | 1 |
| Potassium | 2900 | | 500 | 150 | ug/L | | 04/23/21 09:00 | 04/27/21 20:53 | 1 |
| Sodium | 100000 | | 1000 | 610 | ug/L | | 04/23/21 09:00 | 04/27/21 20:53 | 1 |

Method: 6020A - Metals (ICP/MS) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Iron | 12000 | | 100 | 36 | ug/L | | 04/22/21 15:51 | 04/30/21 17:17 | 1 |
| Manganese | 3700 | | 10 | 4.4 | ug/L | | 04/22/21 15:51 | 04/30/21 17:17 | 1 |
| Molybdenum | 49 | | 2.0 | 1.3 | ug/L | | 04/22/21 15:51 | 04/30/21 17:17 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Bicarbonate Alkalinity as CaCO3 | 310 | | 10 | 4.6 | mg/L | | | 04/29/21 12:04 | 1 |
| Carbonate Alkalinity as CaCO3 | <4.6 | | 10 | 4.6 | mg/L | | | 04/29/21 12:04 | 1 |
| Total Alkalinity as CaCO3 | 310 | | 10 | 4.6 | mg/L | | | 04/29/21 12:04 | 1 |

Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-204857-1

Client Sample ID: MW-310
 Date Collected: 04/19/21 07:30
 Date Received: 04/21/21 16:40

Lab Sample ID: 310-204857-12
 Matrix: Water

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-----|------|---|----------------|----------------|---------|
| Iron | 20000 | | 100 | 36 | ug/L | | 04/23/21 09:00 | 04/27/21 20:58 | 1 |
| Magnesium | 25000 | | 500 | 100 | ug/L | | 04/23/21 09:00 | 04/27/21 20:58 | 1 |
| Manganese | 4300 | | 40 | 18 | ug/L | | 04/23/21 09:00 | 04/28/21 12:42 | 4 |
| Potassium | 2100 | | 500 | 150 | ug/L | | 04/23/21 09:00 | 04/27/21 20:58 | 1 |
| Sodium | 11000 | | 1000 | 610 | ug/L | | 04/23/21 09:00 | 04/27/21 20:58 | 1 |

Method: 6020A - Metals (ICP/MS) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Iron | 20000 | | 100 | 36 | ug/L | | 04/22/21 15:51 | 04/30/21 17:22 | 1 |
| Manganese | 4200 | | 40 | 18 | ug/L | | 04/22/21 15:51 | 05/03/21 14:49 | 4 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Bicarbonate Alkalinity as CaCO3 | 310 | | 10 | 4.6 | mg/L | | | 04/29/21 12:04 | 1 |
| Carbonate Alkalinity as CaCO3 | <4.6 | | 10 | 4.6 | mg/L | | | 04/29/21 12:04 | 1 |
| Total Alkalinity as CaCO3 | 310 | | 10 | 4.6 | mg/L | | | 04/29/21 12:04 | 1 |

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Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-204857-1

Client Sample ID: MW-310A

Lab Sample ID: 310-204857-13

Date Collected: 04/20/21 16:45

Matrix: Water

Date Received: 04/21/21 16:40

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-----|------|---|----------------|----------------|---------|
| Iron | 1000 | | 100 | 36 | ug/L | | 04/23/21 09:00 | 04/27/21 21:01 | 1 |
| Magnesium | 21000 | | 500 | 100 | ug/L | | 04/23/21 09:00 | 04/27/21 21:01 | 1 |
| Manganese | 250 | | 10 | 4.4 | ug/L | | 04/23/21 09:00 | 04/27/21 21:01 | 1 |
| Potassium | 5900 | | 500 | 150 | ug/L | | 04/23/21 09:00 | 04/27/21 21:01 | 1 |
| Sodium | 180000 | | 1000 | 610 | ug/L | | 04/23/21 09:00 | 04/27/21 21:01 | 1 |

Method: 6020A - Metals (ICP/MS) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Iron | <36 | | 100 | 36 | ug/L | | 04/29/21 09:00 | 04/30/21 18:46 | 1 |
| Manganese | 240 | | 10 | 4.4 | ug/L | | 04/29/21 09:00 | 04/30/21 18:46 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Bicarbonate Alkalinity as CaCO3 | 410 | | 10 | 4.6 | mg/L | | | 04/30/21 13:45 | 1 |
| Carbonate Alkalinity as CaCO3 | <4.6 | | 10 | 4.6 | mg/L | | | 04/30/21 13:45 | 1 |
| Total Alkalinity as CaCO3 | 410 | | 10 | 4.6 | mg/L | | | 04/30/21 13:45 | 1 |

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Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-204857-1

Client Sample ID: MW-311

Lab Sample ID: 310-204857-14

Date Collected: 04/19/21 08:50

Matrix: Water

Date Received: 04/21/21 16:40

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-----|------|---|----------------|----------------|---------|
| Iron | 20000 | | 100 | 36 | ug/L | | 04/23/21 09:00 | 04/27/21 21:04 | 1 |
| Magnesium | 39000 | | 500 | 100 | ug/L | | 04/23/21 09:00 | 04/27/21 21:04 | 1 |
| Manganese | 5600 | | 40 | 18 | ug/L | | 04/23/21 09:00 | 04/28/21 12:58 | 4 |
| Potassium | 2300 | | 500 | 150 | ug/L | | 04/23/21 09:00 | 04/27/21 21:04 | 1 |
| Sodium | 62000 | | 1000 | 610 | ug/L | | 04/23/21 09:00 | 04/27/21 21:04 | 1 |

Method: 6020A - Metals (ICP/MS) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Iron | 20000 | | 100 | 36 | ug/L | | 04/22/21 15:51 | 04/30/21 17:25 | 1 |
| Manganese | 5600 | | 40 | 18 | ug/L | | 04/22/21 15:51 | 05/03/21 14:51 | 4 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Bicarbonate Alkalinity as CaCO3 | 390 | | 10 | 4.6 | mg/L | | | 04/29/21 12:04 | 1 |
| Carbonate Alkalinity as CaCO3 | <4.6 | | 10 | 4.6 | mg/L | | | 04/29/21 12:04 | 1 |
| Total Alkalinity as CaCO3 | 390 | | 10 | 4.6 | mg/L | | | 04/29/21 12:04 | 1 |



Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-204857-1

Client Sample ID: MW-312

Lab Sample ID: 310-204857-15

Date Collected: 04/19/21 20:15

Matrix: Water

Date Received: 04/21/21 16:40

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-----|------|---|----------------|----------------|---------|
| Iron | 11000 | | 100 | 36 | ug/L | | 04/23/21 09:00 | 04/27/21 21:06 | 1 |
| Magnesium | 13000 | | 500 | 100 | ug/L | | 04/23/21 09:00 | 04/27/21 21:06 | 1 |
| Manganese | 8900 | | 70 | 31 | ug/L | | 04/23/21 09:00 | 04/28/21 13:01 | 7 |
| Potassium | 11000 | | 500 | 150 | ug/L | | 04/23/21 09:00 | 04/27/21 21:06 | 1 |
| Sodium | 76000 | | 1000 | 610 | ug/L | | 04/23/21 09:00 | 04/27/21 21:06 | 1 |

Method: 6020A - Metals (ICP/MS) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Iron | 11000 | | 100 | 36 | ug/L | | 04/22/21 15:51 | 04/30/21 17:27 | 1 |
| Manganese | 7800 | | 40 | 18 | ug/L | | 04/22/21 15:51 | 05/03/21 15:31 | 4 |
| Molybdenum | 300 | | 2.0 | 1.3 | ug/L | | 04/22/21 15:51 | 04/30/21 17:27 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Bicarbonate Alkalinity as CaCO3 | 190 | | 9.1 | 4.2 | mg/L | | | 04/30/21 10:12 | 1 |
| Carbonate Alkalinity as CaCO3 | <4.2 | | 9.1 | 4.2 | mg/L | | | 04/30/21 10:12 | 1 |
| Total Alkalinity as CaCO3 | 190 | | 9.1 | 4.2 | mg/L | | | 04/30/21 10:12 | 1 |

Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-204857-1

Client Sample ID: MW-313

Lab Sample ID: 310-204857-16

Date Collected: 04/19/21 18:20

Matrix: Water

Date Received: 04/21/21 16:40

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-----|------|---|----------------|----------------|---------|
| Iron | 18000 | | 100 | 36 | ug/L | | 04/23/21 09:00 | 04/27/21 21:22 | 1 |
| Magnesium | 29000 | | 500 | 100 | ug/L | | 04/23/21 09:00 | 04/27/21 21:22 | 1 |
| Manganese | 8700 | | 70 | 31 | ug/L | | 04/23/21 09:00 | 04/28/21 13:03 | 7 |
| Potassium | 9900 | | 500 | 150 | ug/L | | 04/23/21 09:00 | 04/27/21 21:22 | 1 |
| Sodium | 75000 | | 1000 | 610 | ug/L | | 04/23/21 09:00 | 04/27/21 21:22 | 1 |

Method: 6020A - Metals (ICP/MS) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Iron | 18000 | | 100 | 36 | ug/L | | 04/22/21 15:51 | 04/30/21 17:30 | 1 |
| Lithium | 36 | | 10 | 2.5 | ug/L | | 04/22/21 15:51 | 04/30/21 17:30 | 1 |
| Manganese | 8400 | | 40 | 18 | ug/L | | 04/22/21 15:51 | 05/03/21 15:33 | 4 |
| Molybdenum | 140 | | 2.0 | 1.3 | ug/L | | 04/22/21 15:51 | 04/30/21 17:30 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Bicarbonate Alkalinity as CaCO3 | 190 | | 10 | 4.6 | mg/L | | | 04/30/21 10:12 | 1 |
| Carbonate Alkalinity as CaCO3 | <4.6 | | 10 | 4.6 | mg/L | | | 04/30/21 10:12 | 1 |
| Total Alkalinity as CaCO3 | 190 | | 10 | 4.6 | mg/L | | | 04/30/21 10:12 | 1 |

Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-204857-1

Client Sample ID: MW-313A

Lab Sample ID: 310-204857-17

Date Collected: 04/19/21 18:55

Matrix: Water

Date Received: 04/21/21 16:40

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-----|------|---|----------------|----------------|---------|
| Iron | 1500 | | 100 | 36 | ug/L | | 04/23/21 09:00 | 04/27/21 21:24 | 1 |
| Magnesium | 3900 | | 500 | 100 | ug/L | | 04/23/21 09:00 | 04/27/21 21:24 | 1 |
| Manganese | 600 | | 10 | 4.4 | ug/L | | 04/23/21 09:00 | 04/27/21 21:24 | 1 |
| Potassium | 11000 | | 500 | 150 | ug/L | | 04/23/21 09:00 | 04/27/21 21:24 | 1 |
| Sodium | 150000 | | 1000 | 610 | ug/L | | 04/23/21 09:00 | 04/27/21 21:24 | 1 |

Method: 6020A - Metals (ICP/MS) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Iron | 1400 | | 100 | 36 | ug/L | | 04/22/21 15:51 | 04/30/21 17:43 | 1 |
| Lithium | 14 | | 10 | 2.5 | ug/L | | 04/22/21 15:51 | 04/30/21 17:43 | 1 |
| Manganese | 600 | | 10 | 4.4 | ug/L | | 04/22/21 15:51 | 04/30/21 17:43 | 1 |
| Molybdenum | 100 | | 2.0 | 1.3 | ug/L | | 04/22/21 15:51 | 04/30/21 17:43 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Bicarbonate Alkalinity as CaCO3 | 97 | | 9.4 | 4.3 | mg/L | | | 04/30/21 10:12 | 1 |
| Carbonate Alkalinity as CaCO3 | <4.3 | | 9.4 | 4.3 | mg/L | | | 04/30/21 10:12 | 1 |
| Total Alkalinity as CaCO3 | 97 | | 9.4 | 4.3 | mg/L | | | 04/30/21 10:12 | 1 |

Definitions/Glossary

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-204857-1

Qualifiers

Metals

| Qualifier | Qualifier Description |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4 | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|----------------|-------------------------------------------------------------------------------------------------------------|
| ▫ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CFU | Colony Forming Unit |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MCL | EPA recommended "Maximum Contaminant Level" |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| MPN | Most Probable Number |
| MQL | Method Quantitation Limit |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| NEG | Negative / Absent |
| POS | Positive / Present |
| PQL | Practical Quantitation Limit |
| PRES | Presumptive |
| QC | Quality Control |
| RER | Relative Error Ratio (Radiochemistry) |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |
| TNTC | Too Numerous To Count |

QC Sample Results

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-204857-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 310-313647/1-A
Matrix: Water
Analysis Batch: 314182

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 313647

| Analyte | MB MB | | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-----|------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Iron | <36 | | 100 | 36 | ug/L | | 04/23/21 09:00 | 04/27/21 19:48 | 1 |
| Magnesium | <100 | | 500 | 100 | ug/L | | 04/23/21 09:00 | 04/27/21 19:48 | 1 |
| Manganese | <4.4 | | 10 | 4.4 | ug/L | | 04/23/21 09:00 | 04/27/21 19:48 | 1 |
| Potassium | <150 | | 500 | 150 | ug/L | | 04/23/21 09:00 | 04/27/21 19:48 | 1 |
| Sodium | <610 | | 1000 | 610 | ug/L | | 04/23/21 09:00 | 04/27/21 19:48 | 1 |

Lab Sample ID: LCS 310-313647/2-A
Matrix: Water
Analysis Batch: 314182

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 313647

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------|-------------|------------|---------------|------|---|------|--------------|
| | | | | | | | |
| Magnesium | 2000 | 2080 | | ug/L | | 104 | 80 - 120 |
| Manganese | 100 | 102 | | ug/L | | 102 | 80 - 120 |
| Potassium | 2000 | 2150 | | ug/L | | 108 | 80 - 120 |
| Sodium | 2000 | 2050 | | ug/L | | 103 | 80 - 120 |

Lab Sample ID: 310-204857-1 MS
Matrix: Water
Analysis Batch: 314182

Client Sample ID: MW-301
Prep Type: Total/NA
Prep Batch: 313647

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| | | | | | | | | | |
| Magnesium | 75000 | | 2000 | 77300 | 4 | ug/L | | 109 | 75 - 125 |
| Potassium | 3700 | | 2000 | 5740 | | ug/L | | 104 | 75 - 125 |
| Sodium | 63000 | | 2000 | 65000 | 4 | ug/L | | 107 | 75 - 125 |

Lab Sample ID: 310-204857-1 MS
Matrix: Water
Analysis Batch: 314309

Client Sample ID: MW-301
Prep Type: Total/NA
Prep Batch: 313647

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| | | | | | | | | | |

Lab Sample ID: 310-204857-1 MSD
Matrix: Water
Analysis Batch: 314182

Client Sample ID: MW-301
Prep Type: Total/NA
Prep Batch: 313647

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|-----------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| | | | | | | | | | | | |
| Magnesium | 75000 | | 2000 | 78100 | 4 | ug/L | | 152 | 75 - 125 | 1 | 20 |
| Potassium | 3700 | | 2000 | 5840 | | ug/L | | 109 | 75 - 125 | 2 | 20 |
| Sodium | 63000 | | 2000 | 66100 | 4 | ug/L | | 161 | 75 - 125 | 2 | 20 |

Lab Sample ID: 310-204857-1 MSD
Matrix: Water
Analysis Batch: 314309

Client Sample ID: MW-301
Prep Type: Total/NA
Prep Batch: 313647

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| | | | | | | | | | | | |

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QC Sample Results

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-204857-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: 310-204857-11 DU
Matrix: Water
Analysis Batch: 314182

Client Sample ID: MW-309
Prep Type: Total/NA
Prep Batch: 313647

| Analyte | Sample | Sample | DU | DU | Unit | D | RPD | Limit |
|-----------|--------|-----------|--------|-----------|------|---|-----|-------|
| | Result | Qualifier | Result | Qualifier | | | | |
| Iron | 14000 | | 14200 | | ug/L | | 0.5 | 20 |
| Magnesium | 24000 | | 24000 | | ug/L | | 0.4 | 20 |
| Manganese | 3700 | | 3780 | | ug/L | | 2 | 20 |
| Potassium | 2900 | | 2920 | | ug/L | | 0.2 | 20 |
| Sodium | 100000 | | 102000 | | ug/L | | 1 | 20 |

Lab Sample ID: MB 310-313649/1-A
Matrix: Water
Analysis Batch: 314644

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 313649

| Analyte | MB | MB | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Iron | <36 | | 100 | 36 | ug/L | | 04/22/21 15:51 | 04/30/21 16:17 | 1 |
| Lithium | <2.5 | | 10 | 2.5 | ug/L | | 04/22/21 15:51 | 04/30/21 16:17 | 1 |
| Manganese | <4.4 | | 10 | 4.4 | ug/L | | 04/22/21 15:51 | 04/30/21 16:17 | 1 |
| Molybdenum | <1.3 | | 2.0 | 1.3 | ug/L | | 04/22/21 15:51 | 04/30/21 16:17 | 1 |

Lab Sample ID: LCS 310-313649/2-A
Matrix: Water
Analysis Batch: 314644

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 313649

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|------------|-------------|------------|---------------|------|---|------|--------------|
| | | | | | | | |
| Lithium | 200 | 196 | | ug/L | | 98 | 80 - 120 |
| Manganese | 100 | 99.6 | | ug/L | | 100 | 80 - 120 |
| Molybdenum | 200 | 194 | | ug/L | | 97 | 80 - 120 |

Lab Sample ID: 310-204857-1 MS
Matrix: Water
Analysis Batch: 314644

Client Sample ID: MW-301
Prep Type: Dissolved
Prep Batch: 313649

| Analyte | Sample | Sample | Spike Added | MS | MS | Unit | D | %Rec | %Rec. Limits |
|------------|--------|-----------|-------------|--------|-----------|------|---|------|--------------|
| | Result | Qualifier | | Result | Qualifier | | | | |
| Iron | 39000 | | 200 | 39500 | 4 | ug/L | | 50 | 75 - 125 |
| Lithium | 8.1 | J | 200 | 204 | | ug/L | | 98 | 75 - 125 |
| Molybdenum | 44 | | 200 | 257 | | ug/L | | 107 | 75 - 125 |

Lab Sample ID: 310-204857-1 MS
Matrix: Water
Analysis Batch: 314746

Client Sample ID: MW-301
Prep Type: Dissolved
Prep Batch: 313649

| Analyte | Sample | Sample | Spike Added | MS | MS | Unit | D | %Rec | %Rec. Limits |
|-----------|--------|-----------|-------------|--------|-----------|------|---|------|--------------|
| | Result | Qualifier | | Result | Qualifier | | | | |
| Manganese | 14000 | | 100 | 13600 | 4 | ug/L | | -761 | 75 - 125 |

Lab Sample ID: 310-204857-1 MSD
Matrix: Water
Analysis Batch: 314644

Client Sample ID: MW-301
Prep Type: Dissolved
Prep Batch: 313649

| Analyte | Sample | Sample | Spike Added | MSD | MSD | Unit | D | %Rec | %Rec. Limits | RPD | Limit |
|------------|--------|-----------|-------------|--------|-----------|------|---|------|--------------|-----|-------|
| | Result | Qualifier | | Result | Qualifier | | | | | | |
| Iron | 39000 | | 200 | 40300 | 4 | ug/L | | 474 | 75 - 125 | 2 | 20 |
| Lithium | 8.1 | J | 200 | 200 | | ug/L | | 96 | 75 - 125 | 2 | 20 |
| Molybdenum | 44 | | 200 | 259 | | ug/L | | 108 | 75 - 125 | 1 | 20 |

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QC Sample Results

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-204857-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: 310-204857-1 MSD
Matrix: Water
Analysis Batch: 314746

Client Sample ID: MW-301
Prep Type: Dissolved
Prep Batch: 313649

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|-----------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Manganese | 14000 | | 100 | 15300 | 4 | ug/L | | 954 | 75 - 125 | 12 | 20 |

Lab Sample ID: 310-204857-11 DU
Matrix: Water
Analysis Batch: 314644

Client Sample ID: MW-309
Prep Type: Dissolved
Prep Batch: 313649

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|------------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| Iron | 12000 | | 12700 | | ug/L | | 2 | 20 |
| Lithium | 3.1 | J | 2.97 | J | ug/L | | 4 | 20 |
| Manganese | 3700 | | 3720 | | ug/L | | 0.4 | 20 |
| Molybdenum | 49 | | 49.7 | | ug/L | | 0.8 | 20 |

Lab Sample ID: MB 310-314032/1-B
Matrix: Water
Analysis Batch: 314644

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 314255

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|-----------|--------------|-----|-----|------|---|----------------|----------------|---------|
| Iron | <36 | | 100 | 36 | ug/L | | 04/29/21 09:00 | 04/30/21 18:41 | 1 |
| Manganese | <4.4 | | 10 | 4.4 | ug/L | | 04/29/21 09:00 | 04/30/21 18:41 | 1 |

Lab Sample ID: LCS 310-314032/2-B
Matrix: Water
Analysis Batch: 314644

Client Sample ID: Lab Control Sample
Prep Type: Dissolved
Prep Batch: 314255

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------|-------------|------------|---------------|------|---|------|--------------|
| Iron | 200 | 212 | | ug/L | | 106 | 80 - 120 |
| Manganese | 100 | 104 | | ug/L | | 104 | 80 - 120 |

Lab Sample ID: 310-204857-13 MS
Matrix: Water
Analysis Batch: 314644

Client Sample ID: MW-310A
Prep Type: Dissolved
Prep Batch: 314255

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Iron | <36 | | 200 | 218 | | ug/L | | 109 | 75 - 125 |
| Manganese | 240 | | 100 | 339 | | ug/L | | 104 | 75 - 125 |

Lab Sample ID: 310-204857-13 MSD
Matrix: Water
Analysis Batch: 314644

Client Sample ID: MW-310A
Prep Type: Dissolved
Prep Batch: 314255

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|-----------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Iron | <36 | | 200 | 213 | | ug/L | | 106 | 75 - 125 | 2 | 20 |
| Manganese | 240 | | 100 | 341 | | ug/L | | 105 | 75 - 125 | 0 | 20 |

QC Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-204857-1

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 310-314356/1
Matrix: Water
Analysis Batch: 314356

Client Sample ID: Method Blank
Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------|-----------|--------------|-----|-----|------|---|----------|----------------|---------|
| Bicarbonate Alkalinity as CaCO3 | <2.3 | | 5.0 | 2.3 | mg/L | | | 04/29/21 12:04 | 1 |
| Carbonate Alkalinity as CaCO3 | <2.3 | | 5.0 | 2.3 | mg/L | | | 04/29/21 12:04 | 1 |
| Total Alkalinity as CaCO3 | <2.3 | | 5.0 | 2.3 | mg/L | | | 04/29/21 12:04 | 1 |

Lab Sample ID: LCS 310-314356/2
Matrix: Water
Analysis Batch: 314356

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------------------------|-------------|------------|---------------|------|---|------|--------------|
| Total Alkalinity as CaCO3 | 1000 | 965 | | mg/L | | 97 | 90 - 110 |

Lab Sample ID: MB 310-314474/1
Matrix: Water
Analysis Batch: 314474

Client Sample ID: Method Blank
Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------|-----------|--------------|-----|-----|------|---|----------|----------------|---------|
| Bicarbonate Alkalinity as CaCO3 | <2.3 | | 5.0 | 2.3 | mg/L | | | 04/30/21 10:12 | 1 |
| Carbonate Alkalinity as CaCO3 | <2.3 | | 5.0 | 2.3 | mg/L | | | 04/30/21 10:12 | 1 |
| Total Alkalinity as CaCO3 | <2.3 | | 5.0 | 2.3 | mg/L | | | 04/30/21 10:12 | 1 |

Lab Sample ID: LCS 310-314474/2
Matrix: Water
Analysis Batch: 314474

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------------------------|-------------|------------|---------------|------|---|------|--------------|
| Total Alkalinity as CaCO3 | 1000 | 1010 | | mg/L | | 101 | 90 - 110 |

Lab Sample ID: MB 310-314509/1
Matrix: Water
Analysis Batch: 314509

Client Sample ID: Method Blank
Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------|-----------|--------------|-----|-----|------|---|----------|----------------|---------|
| Bicarbonate Alkalinity as CaCO3 | <2.3 | | 5.0 | 2.3 | mg/L | | | 04/30/21 13:45 | 1 |
| Carbonate Alkalinity as CaCO3 | <2.3 | | 5.0 | 2.3 | mg/L | | | 04/30/21 13:45 | 1 |
| Total Alkalinity as CaCO3 | <2.3 | | 5.0 | 2.3 | mg/L | | | 04/30/21 13:45 | 1 |

Lab Sample ID: LCS 310-314509/2
Matrix: Water
Analysis Batch: 314509

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------------------------|-------------|------------|---------------|------|---|------|--------------|
| Total Alkalinity as CaCO3 | 1000 | 980 | | mg/L | | 98 | 90 - 110 |

QC Association Summary

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-204857-1

Metals

Prep Batch: 313647

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 310-204857-1 | MW-301 | Total/NA | Water | 3010A | |
| 310-204857-2 | MW-302 | Total/NA | Water | 3010A | |
| 310-204857-3 | MW-302A | Total/NA | Water | 3010A | |
| 310-204857-4 | MW-303 | Total/NA | Water | 3010A | |
| 310-204857-5 | MW-304 | Total/NA | Water | 3010A | |
| 310-204857-6 | MW-305 | Total/NA | Water | 3010A | |
| 310-204857-7 | MW-306 | Total/NA | Water | 3010A | |
| 310-204857-8 | MW-307 | Total/NA | Water | 3010A | |
| 310-204857-9 | MW-307A | Total/NA | Water | 3010A | |
| 310-204857-10 | MW-308 | Total/NA | Water | 3010A | |
| 310-204857-11 | MW-309 | Total/NA | Water | 3010A | |
| 310-204857-12 | MW-310 | Total/NA | Water | 3010A | |
| 310-204857-13 | MW-310A | Total/NA | Water | 3010A | |
| 310-204857-14 | MW-311 | Total/NA | Water | 3010A | |
| 310-204857-15 | MW-312 | Total/NA | Water | 3010A | |
| 310-204857-16 | MW-313 | Total/NA | Water | 3010A | |
| 310-204857-17 | MW-313A | Total/NA | Water | 3010A | |
| MB 310-313647/1-A | Method Blank | Total/NA | Water | 3010A | |
| LCS 310-313647/2-A | Lab Control Sample | Total/NA | Water | 3010A | |
| 310-204857-1 MS | MW-301 | Total/NA | Water | 3010A | |
| 310-204857-1 MSD | MW-301 | Total/NA | Water | 3010A | |
| 310-204857-11 DU | MW-309 | Total/NA | Water | 3010A | |

Prep Batch: 313649

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 310-204857-1 | MW-301 | Dissolved | Water | 3010A | |
| 310-204857-2 | MW-302 | Dissolved | Water | 3010A | |
| 310-204857-3 | MW-302A | Dissolved | Water | 3010A | |
| 310-204857-4 | MW-303 | Dissolved | Water | 3010A | |
| 310-204857-5 | MW-304 | Dissolved | Water | 3010A | |
| 310-204857-6 | MW-305 | Dissolved | Water | 3010A | |
| 310-204857-7 | MW-306 | Dissolved | Water | 3010A | |
| 310-204857-8 | MW-307 | Dissolved | Water | 3010A | |
| 310-204857-9 | MW-307A | Dissolved | Water | 3010A | |
| 310-204857-10 | MW-308 | Dissolved | Water | 3010A | |
| 310-204857-11 | MW-309 | Dissolved | Water | 3010A | |
| 310-204857-12 | MW-310 | Dissolved | Water | 3010A | |
| 310-204857-14 | MW-311 | Dissolved | Water | 3010A | |
| 310-204857-15 | MW-312 | Dissolved | Water | 3010A | |
| 310-204857-16 | MW-313 | Dissolved | Water | 3010A | |
| 310-204857-17 | MW-313A | Dissolved | Water | 3010A | |
| MB 310-313649/1-A | Method Blank | Total/NA | Water | 3010A | |
| LCS 310-313649/2-A | Lab Control Sample | Total/NA | Water | 3010A | |
| 310-204857-1 MS | MW-301 | Dissolved | Water | 3010A | |
| 310-204857-1 MSD | MW-301 | Dissolved | Water | 3010A | |
| 310-204857-11 DU | MW-309 | Dissolved | Water | 3010A | |

Filtration Batch: 314032

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------|-----------|--------|------------|------------|
| 310-204857-13 | MW-310A | Dissolved | Water | Filtration | |
| MB 310-314032/1-B | Method Blank | Dissolved | Water | Filtration | |

Eurofins TestAmerica, Cedar Falls

QC Association Summary

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-204857-1

Metals (Continued)

Filtration Batch: 314032 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|------------|------------|
| LCS 310-314032/2-B | Lab Control Sample | Dissolved | Water | Filtration | |
| 310-204857-13 MS | MW-310A | Dissolved | Water | Filtration | |
| 310-204857-13 MSD | MW-310A | Dissolved | Water | Filtration | |

Analysis Batch: 314182

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 310-204857-1 | MW-301 | Total/NA | Water | 6020A | 313647 |
| 310-204857-2 | MW-302 | Total/NA | Water | 6020A | 313647 |
| 310-204857-3 | MW-302A | Total/NA | Water | 6020A | 313647 |
| 310-204857-4 | MW-303 | Total/NA | Water | 6020A | 313647 |
| 310-204857-5 | MW-304 | Total/NA | Water | 6020A | 313647 |
| 310-204857-6 | MW-305 | Total/NA | Water | 6020A | 313647 |
| 310-204857-7 | MW-306 | Total/NA | Water | 6020A | 313647 |
| 310-204857-8 | MW-307 | Total/NA | Water | 6020A | 313647 |
| 310-204857-9 | MW-307A | Total/NA | Water | 6020A | 313647 |
| 310-204857-10 | MW-308 | Total/NA | Water | 6020A | 313647 |
| 310-204857-11 | MW-309 | Total/NA | Water | 6020A | 313647 |
| 310-204857-12 | MW-310 | Total/NA | Water | 6020A | 313647 |
| 310-204857-13 | MW-310A | Total/NA | Water | 6020A | 313647 |
| 310-204857-14 | MW-311 | Total/NA | Water | 6020A | 313647 |
| 310-204857-15 | MW-312 | Total/NA | Water | 6020A | 313647 |
| 310-204857-16 | MW-313 | Total/NA | Water | 6020A | 313647 |
| 310-204857-17 | MW-313A | Total/NA | Water | 6020A | 313647 |
| MB 310-313647/1-A | Method Blank | Total/NA | Water | 6020A | 313647 |
| LCS 310-313647/2-A | Lab Control Sample | Total/NA | Water | 6020A | 313647 |
| 310-204857-1 MS | MW-301 | Total/NA | Water | 6020A | 313647 |
| 310-204857-1 MSD | MW-301 | Total/NA | Water | 6020A | 313647 |
| 310-204857-11 DU | MW-309 | Total/NA | Water | 6020A | 313647 |

Prep Batch: 314255

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 310-204857-13 | MW-310A | Dissolved | Water | 3010A | 314032 |
| MB 310-314032/1-B | Method Blank | Dissolved | Water | 3010A | 314032 |
| LCS 310-314032/2-B | Lab Control Sample | Dissolved | Water | 3010A | 314032 |
| 310-204857-13 MS | MW-310A | Dissolved | Water | 3010A | 314032 |
| 310-204857-13 MSD | MW-310A | Dissolved | Water | 3010A | 314032 |

Analysis Batch: 314309

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------|------------|
| 310-204857-1 | MW-301 | Total/NA | Water | 6020A | 313647 |
| 310-204857-12 | MW-310 | Total/NA | Water | 6020A | 313647 |
| 310-204857-14 | MW-311 | Total/NA | Water | 6020A | 313647 |
| 310-204857-15 | MW-312 | Total/NA | Water | 6020A | 313647 |
| 310-204857-16 | MW-313 | Total/NA | Water | 6020A | 313647 |
| 310-204857-1 MS | MW-301 | Total/NA | Water | 6020A | 313647 |
| 310-204857-1 MSD | MW-301 | Total/NA | Water | 6020A | 313647 |

Analysis Batch: 314644

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 310-204857-1 | MW-301 | Dissolved | Water | 6020A | 313649 |
| 310-204857-2 | MW-302 | Dissolved | Water | 6020A | 313649 |

Eurofins TestAmerica, Cedar Falls

QC Association Summary

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-204857-1

Metals (Continued)

Analysis Batch: 314644 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 310-204857-3 | MW-302A | Dissolved | Water | 6020A | 313649 |
| 310-204857-4 | MW-303 | Dissolved | Water | 6020A | 313649 |
| 310-204857-5 | MW-304 | Dissolved | Water | 6020A | 313649 |
| 310-204857-6 | MW-305 | Dissolved | Water | 6020A | 313649 |
| 310-204857-7 | MW-306 | Dissolved | Water | 6020A | 313649 |
| 310-204857-8 | MW-307 | Dissolved | Water | 6020A | 313649 |
| 310-204857-9 | MW-307A | Dissolved | Water | 6020A | 313649 |
| 310-204857-10 | MW-308 | Dissolved | Water | 6020A | 313649 |
| 310-204857-11 | MW-309 | Dissolved | Water | 6020A | 313649 |
| 310-204857-12 | MW-310 | Dissolved | Water | 6020A | 313649 |
| 310-204857-13 | MW-310A | Dissolved | Water | 6020A | 314255 |
| 310-204857-14 | MW-311 | Dissolved | Water | 6020A | 313649 |
| 310-204857-15 | MW-312 | Dissolved | Water | 6020A | 313649 |
| 310-204857-16 | MW-313 | Dissolved | Water | 6020A | 313649 |
| 310-204857-17 | MW-313A | Dissolved | Water | 6020A | 313649 |
| MB 310-313649/1-A | Method Blank | Total/NA | Water | 6020A | 313649 |
| MB 310-314032/1-B | Method Blank | Dissolved | Water | 6020A | 314255 |
| LCS 310-313649/2-A | Lab Control Sample | Total/NA | Water | 6020A | 313649 |
| LCS 310-314032/2-B | Lab Control Sample | Dissolved | Water | 6020A | 314255 |
| 310-204857-1 MS | MW-301 | Dissolved | Water | 6020A | 313649 |
| 310-204857-1 MSD | MW-301 | Dissolved | Water | 6020A | 313649 |
| 310-204857-13 MS | MW-310A | Dissolved | Water | 6020A | 314255 |
| 310-204857-13 MSD | MW-310A | Dissolved | Water | 6020A | 314255 |
| 310-204857-11 DU | MW-309 | Dissolved | Water | 6020A | 313649 |

Analysis Batch: 314746

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------|------------|
| 310-204857-1 | MW-301 | Dissolved | Water | 6020A | 313649 |
| 310-204857-12 | MW-310 | Dissolved | Water | 6020A | 313649 |
| 310-204857-14 | MW-311 | Dissolved | Water | 6020A | 313649 |
| 310-204857-15 | MW-312 | Dissolved | Water | 6020A | 313649 |
| 310-204857-16 | MW-313 | Dissolved | Water | 6020A | 313649 |
| 310-204857-1 MS | MW-301 | Dissolved | Water | 6020A | 313649 |
| 310-204857-1 MSD | MW-301 | Dissolved | Water | 6020A | 313649 |

General Chemistry

Analysis Batch: 314356

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|----------|------------|
| 310-204857-1 | MW-301 | Total/NA | Water | SM 2320B | |
| 310-204857-2 | MW-302 | Total/NA | Water | SM 2320B | |
| 310-204857-3 | MW-302A | Total/NA | Water | SM 2320B | |
| 310-204857-4 | MW-303 | Total/NA | Water | SM 2320B | |
| 310-204857-5 | MW-304 | Total/NA | Water | SM 2320B | |
| 310-204857-7 | MW-306 | Total/NA | Water | SM 2320B | |
| 310-204857-8 | MW-307 | Total/NA | Water | SM 2320B | |
| 310-204857-11 | MW-309 | Total/NA | Water | SM 2320B | |
| 310-204857-12 | MW-310 | Total/NA | Water | SM 2320B | |
| 310-204857-14 | MW-311 | Total/NA | Water | SM 2320B | |
| MB 310-314356/1 | Method Blank | Total/NA | Water | SM 2320B | |
| LCS 310-314356/2 | Lab Control Sample | Total/NA | Water | SM 2320B | |

Eurofins TestAmerica, Cedar Falls

QC Association Summary

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-204857-1

General Chemistry

Analysis Batch: 314474

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|----------|------------|
| 310-204857-15 | MW-312 | Total/NA | Water | SM 2320B | |
| 310-204857-16 | MW-313 | Total/NA | Water | SM 2320B | |
| 310-204857-17 | MW-313A | Total/NA | Water | SM 2320B | |
| MB 310-314474/1 | Method Blank | Total/NA | Water | SM 2320B | |
| LCS 310-314474/2 | Lab Control Sample | Total/NA | Water | SM 2320B | |

Analysis Batch: 314509

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|----------|------------|
| 310-204857-6 | MW-305 | Total/NA | Water | SM 2320B | |
| 310-204857-9 | MW-307A | Total/NA | Water | SM 2320B | |
| 310-204857-10 | MW-308 | Total/NA | Water | SM 2320B | |
| 310-204857-13 | MW-310A | Total/NA | Water | SM 2320B | |
| MB 310-314509/1 | Method Blank | Total/NA | Water | SM 2320B | |
| LCS 310-314509/2 | Lab Control Sample | Total/NA | Water | SM 2320B | |

Lab Chronicle

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-204857-1

Client Sample ID: MW-301

Date Collected: 04/19/21 11:40

Date Received: 04/21/21 16:40

Lab Sample ID: 310-204857-1

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Dissolved | Prep | 3010A | | | 313649 | 04/22/21 15:51 | JNR | TAL CF |
| Dissolved | Analysis | 6020A | | 1 | 314644 | 04/30/21 16:33 | SAD | TAL CF |
| Dissolved | Prep | 3010A | | | 313649 | 04/22/21 15:51 | JNR | TAL CF |
| Dissolved | Analysis | 6020A | | 10 | 314746 | 05/03/21 14:30 | SAD | TAL CF |
| Total/NA | Prep | 3010A | | | 313647 | 04/23/21 09:00 | JNR | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 314182 | 04/27/21 20:06 | SAD | TAL CF |
| Total/NA | Prep | 3010A | | | 313647 | 04/23/21 09:00 | JNR | TAL CF |
| Total/NA | Analysis | 6020A | | 7 | 314309 | 04/28/21 12:34 | SAD | TAL CF |
| Total/NA | Analysis | SM 2320B | | 1 | 314356 | 04/29/21 12:04 | WJF | TAL CF |

Client Sample ID: MW-302

Date Collected: 04/19/21 13:50

Date Received: 04/21/21 16:40

Lab Sample ID: 310-204857-2

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Dissolved | Prep | 3010A | | | 313649 | 04/22/21 15:51 | JNR | TAL CF |
| Dissolved | Analysis | 6020A | | 1 | 314644 | 04/30/21 16:43 | SAD | TAL CF |
| Total/NA | Prep | 3010A | | | 313647 | 04/23/21 09:00 | JNR | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 314182 | 04/27/21 20:17 | SAD | TAL CF |
| Total/NA | Analysis | SM 2320B | | 1 | 314356 | 04/29/21 12:04 | WJF | TAL CF |

Client Sample ID: MW-302A

Date Collected: 04/19/21 13:15

Date Received: 04/21/21 16:40

Lab Sample ID: 310-204857-3

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Dissolved | Prep | 3010A | | | 313649 | 04/22/21 15:51 | JNR | TAL CF |
| Dissolved | Analysis | 6020A | | 1 | 314644 | 04/30/21 16:46 | SAD | TAL CF |
| Total/NA | Prep | 3010A | | | 313647 | 04/23/21 09:00 | JNR | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 314182 | 04/27/21 20:19 | SAD | TAL CF |
| Total/NA | Analysis | SM 2320B | | 1 | 314356 | 04/29/21 12:04 | WJF | TAL CF |

Client Sample ID: MW-303

Date Collected: 04/19/21 15:55

Date Received: 04/21/21 16:40

Lab Sample ID: 310-204857-4

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Dissolved | Prep | 3010A | | | 313649 | 04/22/21 15:51 | JNR | TAL CF |
| Dissolved | Analysis | 6020A | | 1 | 314644 | 04/30/21 16:48 | SAD | TAL CF |
| Total/NA | Prep | 3010A | | | 313647 | 04/23/21 09:00 | JNR | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 314182 | 04/27/21 20:22 | SAD | TAL CF |
| Total/NA | Analysis | SM 2320B | | 1 | 314356 | 04/29/21 12:04 | WJF | TAL CF |

Lab Chronicle

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-204857-1

Client Sample ID: MW-304

Date Collected: 04/19/21 17:00

Date Received: 04/21/21 16:40

Lab Sample ID: 310-204857-5

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Dissolved | Prep | 3010A | | | 313649 | 04/22/21 15:51 | JNR | TAL CF |
| Dissolved | Analysis | 6020A | | 1 | 314644 | 04/30/21 16:51 | SAD | TAL CF |
| Total/NA | Prep | 3010A | | | 313647 | 04/23/21 09:00 | JNR | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 314182 | 04/27/21 20:24 | SAD | TAL CF |
| Total/NA | Analysis | SM 2320B | | 1 | 314356 | 04/29/21 12:04 | WJF | TAL CF |

Client Sample ID: MW-305

Date Collected: 04/20/21 14:00

Date Received: 04/21/21 16:40

Lab Sample ID: 310-204857-6

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Dissolved | Prep | 3010A | | | 313649 | 04/22/21 15:51 | JNR | TAL CF |
| Dissolved | Analysis | 6020A | | 1 | 314644 | 04/30/21 16:53 | SAD | TAL CF |
| Total/NA | Prep | 3010A | | | 313647 | 04/23/21 09:00 | JNR | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 314182 | 04/27/21 20:27 | SAD | TAL CF |
| Total/NA | Analysis | SM 2320B | | 1 | 314509 | 04/30/21 13:45 | DFS | TAL CF |

Client Sample ID: MW-306

Date Collected: 04/19/21 12:20

Date Received: 04/21/21 16:40

Lab Sample ID: 310-204857-7

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Dissolved | Prep | 3010A | | | 313649 | 04/22/21 15:51 | JNR | TAL CF |
| Dissolved | Analysis | 6020A | | 1 | 314644 | 04/30/21 17:06 | SAD | TAL CF |
| Total/NA | Prep | 3010A | | | 313647 | 04/23/21 09:00 | JNR | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 314182 | 04/27/21 20:43 | SAD | TAL CF |
| Total/NA | Analysis | SM 2320B | | 1 | 314356 | 04/29/21 12:04 | WJF | TAL CF |

Client Sample ID: MW-307

Date Collected: 04/20/21 10:30

Date Received: 04/21/21 16:40

Lab Sample ID: 310-204857-8

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Dissolved | Prep | 3010A | | | 313649 | 04/22/21 15:51 | JNR | TAL CF |
| Dissolved | Analysis | 6020A | | 1 | 314644 | 04/30/21 17:09 | SAD | TAL CF |
| Total/NA | Prep | 3010A | | | 313647 | 04/23/21 09:00 | JNR | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 314182 | 04/27/21 20:45 | SAD | TAL CF |
| Total/NA | Analysis | SM 2320B | | 1 | 314356 | 04/29/21 15:28 | WJF | TAL CF |

Lab Chronicle

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-204857-1

Client Sample ID: MW-307A

Lab Sample ID: 310-204857-9

Date Collected: 04/20/21 09:35

Matrix: Water

Date Received: 04/21/21 16:40

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Dissolved | Prep | 3010A | | | 313649 | 04/22/21 15:51 | JNR | TAL CF |
| Dissolved | Analysis | 6020A | | 1 | 314644 | 04/30/21 17:12 | SAD | TAL CF |
| Total/NA | Prep | 3010A | | | 313647 | 04/23/21 09:00 | JNR | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 314182 | 04/27/21 20:48 | SAD | TAL CF |
| Total/NA | Analysis | SM 2320B | | 1 | 314509 | 04/30/21 13:45 | DFS | TAL CF |

Client Sample ID: MW-308

Lab Sample ID: 310-204857-10

Date Collected: 04/20/21 07:45

Matrix: Water

Date Received: 04/21/21 16:40

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Dissolved | Prep | 3010A | | | 313649 | 04/22/21 15:51 | JNR | TAL CF |
| Dissolved | Analysis | 6020A | | 1 | 314644 | 04/30/21 17:14 | SAD | TAL CF |
| Total/NA | Prep | 3010A | | | 313647 | 04/23/21 09:00 | JNR | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 314182 | 04/27/21 20:51 | SAD | TAL CF |
| Total/NA | Analysis | SM 2320B | | 1 | 314509 | 04/30/21 13:45 | DFS | TAL CF |

Client Sample ID: MW-309

Lab Sample ID: 310-204857-11

Date Collected: 04/19/21 10:20

Matrix: Water

Date Received: 04/21/21 16:40

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Dissolved | Prep | 3010A | | | 313649 | 04/22/21 15:51 | JNR | TAL CF |
| Dissolved | Analysis | 6020A | | 1 | 314644 | 04/30/21 17:17 | SAD | TAL CF |
| Total/NA | Prep | 3010A | | | 313647 | 04/23/21 09:00 | JNR | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 314182 | 04/27/21 20:53 | SAD | TAL CF |
| Total/NA | Analysis | SM 2320B | | 1 | 314356 | 04/29/21 12:04 | WJF | TAL CF |

Client Sample ID: MW-310

Lab Sample ID: 310-204857-12

Date Collected: 04/19/21 07:30

Matrix: Water

Date Received: 04/21/21 16:40

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Dissolved | Prep | 3010A | | | 313649 | 04/22/21 15:51 | JNR | TAL CF |
| Dissolved | Analysis | 6020A | | 1 | 314644 | 04/30/21 17:22 | SAD | TAL CF |
| Dissolved | Prep | 3010A | | | 313649 | 04/22/21 15:51 | JNR | TAL CF |
| Dissolved | Analysis | 6020A | | 4 | 314746 | 05/03/21 14:49 | SAD | TAL CF |
| Total/NA | Prep | 3010A | | | 313647 | 04/23/21 09:00 | JNR | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 314182 | 04/27/21 20:58 | SAD | TAL CF |
| Total/NA | Prep | 3010A | | | 313647 | 04/23/21 09:00 | JNR | TAL CF |
| Total/NA | Analysis | 6020A | | 4 | 314309 | 04/28/21 12:42 | SAD | TAL CF |
| Total/NA | Analysis | SM 2320B | | 1 | 314356 | 04/29/21 12:04 | WJF | TAL CF |

Lab Chronicle

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-204857-1

Client Sample ID: MW-310A

Lab Sample ID: 310-204857-13

Date Collected: 04/20/21 16:45

Matrix: Water

Date Received: 04/21/21 16:40

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Dissolved | Filtration | Filtration | | | 314032 | 04/27/21 09:57 | JNR | TAL CF |
| Dissolved | Prep | 3010A | | | 314255 | 04/29/21 09:00 | JNR | TAL CF |
| Dissolved | Analysis | 6020A | | 1 | 314644 | 04/30/21 18:46 | SAD | TAL CF |
| Total/NA | Prep | 3010A | | | 313647 | 04/23/21 09:00 | JNR | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 314182 | 04/27/21 21:01 | SAD | TAL CF |
| Total/NA | Analysis | SM 2320B | | 1 | 314509 | 04/30/21 13:45 | DFS | TAL CF |

Client Sample ID: MW-311

Lab Sample ID: 310-204857-14

Date Collected: 04/19/21 08:50

Matrix: Water

Date Received: 04/21/21 16:40

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Dissolved | Prep | 3010A | | | 313649 | 04/22/21 15:51 | JNR | TAL CF |
| Dissolved | Analysis | 6020A | | 1 | 314644 | 04/30/21 17:25 | SAD | TAL CF |
| Dissolved | Prep | 3010A | | | 313649 | 04/22/21 15:51 | JNR | TAL CF |
| Dissolved | Analysis | 6020A | | 4 | 314746 | 05/03/21 14:51 | SAD | TAL CF |
| Total/NA | Prep | 3010A | | | 313647 | 04/23/21 09:00 | JNR | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 314182 | 04/27/21 21:04 | SAD | TAL CF |
| Total/NA | Prep | 3010A | | | 313647 | 04/23/21 09:00 | JNR | TAL CF |
| Total/NA | Analysis | 6020A | | 4 | 314309 | 04/28/21 12:58 | SAD | TAL CF |
| Total/NA | Analysis | SM 2320B | | 1 | 314356 | 04/29/21 12:04 | WJF | TAL CF |

Client Sample ID: MW-312

Lab Sample ID: 310-204857-15

Date Collected: 04/19/21 20:15

Matrix: Water

Date Received: 04/21/21 16:40

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Dissolved | Prep | 3010A | | | 313649 | 04/22/21 15:51 | JNR | TAL CF |
| Dissolved | Analysis | 6020A | | 1 | 314644 | 04/30/21 17:27 | SAD | TAL CF |
| Dissolved | Prep | 3010A | | | 313649 | 04/22/21 15:51 | JNR | TAL CF |
| Dissolved | Analysis | 6020A | | 4 | 314746 | 05/03/21 15:31 | SAD | TAL CF |
| Total/NA | Prep | 3010A | | | 313647 | 04/23/21 09:00 | JNR | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 314182 | 04/27/21 21:06 | SAD | TAL CF |
| Total/NA | Prep | 3010A | | | 313647 | 04/23/21 09:00 | JNR | TAL CF |
| Total/NA | Analysis | 6020A | | 7 | 314309 | 04/28/21 13:01 | SAD | TAL CF |
| Total/NA | Analysis | SM 2320B | | 1 | 314474 | 04/30/21 10:12 | DFS | TAL CF |

Client Sample ID: MW-313

Lab Sample ID: 310-204857-16

Date Collected: 04/19/21 18:20

Matrix: Water

Date Received: 04/21/21 16:40

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Dissolved | Prep | 3010A | | | 313649 | 04/22/21 15:51 | JNR | TAL CF |
| Dissolved | Analysis | 6020A | | 1 | 314644 | 04/30/21 17:30 | SAD | TAL CF |

Lab Chronicle

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-204857-1

Client Sample ID: MW-313
Date Collected: 04/19/21 18:20
Date Received: 04/21/21 16:40

Lab Sample ID: 310-204857-16
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Dissolved | Prep | 3010A | | | 313649 | 04/22/21 15:51 | JNR | TAL CF |
| Dissolved | Analysis | 6020A | | 4 | 314746 | 05/03/21 15:33 | SAD | TAL CF |
| Total/NA | Prep | 3010A | | | 313647 | 04/23/21 09:00 | JNR | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 314182 | 04/27/21 21:22 | SAD | TAL CF |
| Total/NA | Prep | 3010A | | | 313647 | 04/23/21 09:00 | JNR | TAL CF |
| Total/NA | Analysis | 6020A | | 7 | 314309 | 04/28/21 13:03 | SAD | TAL CF |
| Total/NA | Analysis | SM 2320B | | 1 | 314474 | 04/30/21 10:12 | DFS | TAL CF |

Client Sample ID: MW-313A
Date Collected: 04/19/21 18:55
Date Received: 04/21/21 16:40

Lab Sample ID: 310-204857-17
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Dissolved | Prep | 3010A | | | 313649 | 04/22/21 15:51 | JNR | TAL CF |
| Dissolved | Analysis | 6020A | | 1 | 314644 | 04/30/21 17:43 | SAD | TAL CF |
| Total/NA | Prep | 3010A | | | 313647 | 04/23/21 09:00 | JNR | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 314182 | 04/27/21 21:24 | SAD | TAL CF |
| Total/NA | Analysis | SM 2320B | | 1 | 314474 | 04/30/21 10:12 | DFS | TAL CF |

Laboratory References:

TAL CF = Eurofins TestAmerica, Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401



Accreditation/Certification Summary

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-204857-1

Laboratory: Eurofins TestAmerica, Cedar Falls

The accreditations/certifications listed below are applicable to this report.

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| Iowa | State | 007 | 12-01-21 |

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-204857-1

| Method | Method Description | Protocol | Laboratory |
|------------|---------------------------|----------|------------|
| 6020A | Metals (ICP/MS) | SW846 | TAL CF |
| SM 2320B | Alkalinity | SM | TAL CF |
| 3010A | Preparation, Total Metals | SW846 | TAL CF |
| Filtration | Sample Filtration | None | TAL CF |

Protocol References:

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CF = Eurofins TestAmerica, Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401



Environment Testing
TestAmerica



310-204857 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

| Client Information | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|----------------------------------------|
| Client: <u>SCS Engineers</u> | | | |
| City/State: | CITY <u>Clive</u> | STATE <u>IA</u> | Project: <u>Burlington Gen Station</u> |
| Receipt Information | | | |
| Date/Time Received: | DATE <u>4/21/21</u> | TIME <u>1040</u> | Received By: <u>Am</u> |
| Delivery Type: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input checked="" type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____ | | | |
| Condition of Cooler/Containers | | | |
| Sample(s) received in Cooler? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If yes: Cooler ID: _____ | |
| Multiple Coolers? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If yes: Cooler # <u>1</u> of <u>2</u> | |
| Cooler Custody Seals Present? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If yes: Cooler custody seals intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| Sample Custody Seals Present? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No | |
| Trip Blank Present? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If yes: Which VOA samples are in cooler? ↓ | |
| | | | |
| | | | |
| Temperature Record | | | |
| Coolant: | <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE | | |
| Thermometer ID: | <u>Q</u> | Correction Factor (°C): | <u>0</u> |
| • Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature | | | |
| Uncorrected Temp (°C): | <u>0.3</u> | Corrected Temp (°C): | <u>0.3</u> |
| • Sample Container Temperature | | | |
| Container(s) used: | CONTAINER 1 | CONTAINER 2 | |
| Uncorrected Temp (°C): | | | |
| Corrected Temp (°C): | | | |
| Exceptions Noted | | | |
| 1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No | | | |
| a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No | | | |
| 2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No | | | |
| NOTE: If yes, contact PM before proceeding. If no, proceed with login | | | |
| Additional Comments | | | |
| | | | |
| | | | |
| | | | |

Document: CF-LG-WI-002
Revision: 25
Date: 06/17/2019

Eurofins TestAmerica, Cedar Falls

General temperature criteria is 0 to 6°C
Bacteria temperature criteria is 0 to 10°C



Place COC scanning label
here

Cooler/Sample Receipt and Temperature Log Form

| Client Information | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|---------------------------------------|
| Client: <u>SCS Engineers</u> | | | |
| City/State: | <u>CA</u> | STATE: <u>IA</u> | Project: <u>Burlington Genstation</u> |
| Receipt Information | | | |
| Date/Time Received: | DATE: <u>4/21/19</u> | TIME: <u>1640</u> | Received By: <u>CB</u> |
| Delivery Type: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input checked="" type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____ | | | |
| Condition of Cooler/Containers | | | |
| Sample(s) received in Cooler? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If yes: Cooler ID: _____ | |
| Multiple Coolers? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If yes: Cooler # <u>2</u> of <u>2</u> | |
| Cooler Custody Seals Present? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If yes: Cooler custody seals intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| Sample Custody Seals Present? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No | |
| Trip Blank Present? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If yes: Which VOA samples are in cooler? ↓ | |
| | | | |
| Temperature Record | | | |
| Coolant: <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE | | | |
| Thermometer ID: <u>Q</u> | Correction Factor (°C): <u>0.0</u> | | |
| • Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature | | | |
| Uncorrected Temp (°C): <u>1.4</u> | Corrected Temp (°C): <u>1.4</u> | | |
| • Sample Container Temperature | | | |
| Container(s) used: | CONTAINER 1 | CONTAINER 2 | |
| Uncorrected Temp (°C): | | | |
| Corrected Temp (°C): | | | |
| Exceptions Noted | | | |
| 1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No | | | |
| a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No | | | |
| 2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No | | | |
| NOTE: If yes, contact PM before proceeding. If no, proceed with login | | | |
| Additional Comments | | | |
| <u>Field blank, MW-365, MW-310A</u> | | | |
| <u>IL NT - Radium 226 on label</u> | | | |
| | | | |

| | | | | | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Client Information Client Contact: Tantien Buszka Phone: 269-443-0855 Email: sandra.fredrick@eurofins.com | | Lab PM: Fredrick, Sandie E-Mail: sandra.fredrick@eurofins.com | | Carrier Tracking No(s): State or Origin: | | COC No.: 310-60014-17537.1 Page: Page 1 of 2 Job #: | |
| Due Date Requested: TAT Requested (days): Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No PO #: 25221066 WC #: | | PWSID: Address: 8450 Hickman Road Suite 27 City: Clive State, Zip: IA, 50325 Phone: 269-443-0855 Email: tbuszka@scsengineers.com | | Field Filtered Sample (Yes or No): 6020A - Alkalinity 6020A - Metals (5) 6020A - Metals (4) | | Preservation Codes: A - HCl B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSC04 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH4.5 Z - other (specify) | |
| Sample Identification MW-301 MW-302 MW-302A MW-303 MW-304 MW-305 MW-306 MW-307 MW-307A MW-308 MW-309 | | Sample Date Sample Time Sample Type (C=Comp, G=grab) Matrix (W=water, S=solid, O=wastefl, BT=BIOSUR, A=AVAT) | | Field Filtered Sample (Yes or No): 6020A - Alkalinity 6020A - Metals (5) 6020A - Metals (4) | | Total Number of Containers Special Instructions/Note: | |
| Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological | | Deliverable Requested: I, II, III, IV, Other (specify) | | Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months | | Special Instructions/QC Requirements: | |
| Empty Kit Relinquished by Relinquished by: Tantien Buszka | | Date: 4-21-21 10:15 | | Received by: SCS | | Date/Time: | |
| Relinquished by: | | Date/Time: | | Received by: | | Date/Time: | |
| Relinquished by: | | Date/Time: | | Received by: Wegle Muehlenberg | | Date/Time: 4/21/21 1640 | |
| Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No | | Custody Seal No.: | | Cooler Temperature(s) °C and Other Remarks: | | Company: ETA | |



| | | | | | | | | | | | | | | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------|--|------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------|--|
| Client Information Client Contact: Tanten Buszka Company: SCS Engineers Address: 8450 Hickman Road, Suite 27 City: Clive State, Zip: IA, 50325 Phone: 269-943-0855 Email: tbuszka@scsengineers.com Project Name: Burlington Gen. Station 25221066 Site: BGS | | Lab PM: Fredrick, Sandie E-Mail: sandra.fredrick@eurofinset.com PWSID: | | Carrier Tracking No(s): State of Origin: | | COC No: 310-60014-17537.2 Page: Page 2 of 2 Job #: | | | | | | | | | |
| Due Date Requested: TAT Requested (days): Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No PO #: 25221066 WC #: 31011020 Project #: 31011020 SSO#: | | Analysis Requested | | Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: | | Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify) | | | | | | | | | |
| Sample Identification MW-310 MW-310A MW-311 MW-312 MW-313 MW-313A Field Blank | | Sample Date 4-14-21 4-20-21 4-19-21 4-19-21 4-19-21 4-20-21 | | Sample Time 7:30 16:45 8:30 20:15 18:20 18:55 15:00 | | Sample Type (C=Comp, G=grab) G G G G G G G | | Matrix (W=water, S=solid, O=volatile, BT=tissue, A=air) Water Water Water Water Water Water Water Water | | Field Filtered Sample (Yes or No) X X X X X X X | | 220B - Alkalinity 6020A - Metals (5) 6020A - D. Metals (4) | | Total Number of Containers Special Instructions/Note: - Limited water, See Meg Empl | |
| Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological | | Deliverable Requested: I, II, III, IV, Other (specify): | | Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months | | Special Instructions/QC Requirements: | | | | | | | | | |
| Empty Kit Relinquished by: | | Date: | | Time: | | Method of Shipment: | | | | | | | | | |
| Relinquished by: Tanten Buszka | | Date/Time: 4-21-21 10:15 | | Company: SCS | | Received by: | | | | | | | | | |
| Relinquished by: | | Date/Time: | | Company: | | Received by: | | | | | | | | | |
| Relinquished by: | | Date/Time: | | Company: | | Received by: Tanten Buszka Date/Time: 4/21/21 1640 Company: SCS | | | | | | | | | |
| Custody Seals Intact: | | Custody Seal No.: | | Cooler Temperature(s) °C and Other Rem'ys: | | Company: | | | | | | | | | |
| Δ Yes Δ No | | Δ Yes Δ No | | Δ Yes Δ No | | Δ Yes Δ No | | | | | | | | | |



Table 1. Sampling Points and Parameters - CCR Rule Sampling Program Assessment Monitoring
 Groundwater Monitoring - Burlington Generating Station / SCS Engineers Project #25221066

| Parameter | MW-301 | MW-302 | MW-302A | MW-303 | MW-304 | MW-305 | MW-306 | MW-307 | MW-307A | MW-308 | MW-309 | MW-310 | MW-310A | MW-311 | MW-312 | MW-313 | MW-313A | Field Blank | TOTAL |
|------------------------------------------------------|--------|--------|---------|--------|--------|--------|--------|--------|---------|--------|--------|--------|---------|--------|--------|--------|---------|-------------|-------|
| Appendix III Parameters | | | | | | | | | | | | | | | | | | | |
| Boron | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 18 |
| Calcium | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 18 |
| Chloride | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 18 |
| Fluoride | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 18 |
| pH | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 18 |
| Sulfate | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 18 |
| TDS | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 18 |
| Appendix IV Parameters | | | | | | | | | | | | | | | | | | | |
| Antimony | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 18 |
| Arsenic | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 18 |
| Barium | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 18 |
| Beryllium | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 18 |
| Cadmium | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 18 |
| Chromium | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 18 |
| Cobalt | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 18 |
| Fluoride | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 18 |
| Lead | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 18 |
| Lithium | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 18 |
| Mercury | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 18 |
| Molybdenum | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 18 |
| Selenium | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 18 |
| Thallium | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 18 |
| Radium | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 18 |
| Field Parameters | | | | | | | | | | | | | | | | | | | |
| Ferrous Iron (ChemMetrics) | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 17 |
| Sulfide (ChemMetrics) | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 17 |
| Groundwater Elevation | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 17 |
| Well Depth | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 17 |
| pH (field) | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 17 |
| Specific Conductance | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 17 |
| Dissolved Oxygen | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 17 |
| ORP | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 17 |
| Temperature | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 17 |
| Turbidity | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 17 |
| Color | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 17 |
| Odor | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 17 |
| Additional Lab Parameters - REPORT SEPARATELY | | | | | | | | | | | | | | | | | | | |
| Bicarbonate (total) | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 17 |
| Carbonate (total) | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 17 |
| Iron (total) | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 17 |
| Magnesium (total) | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 17 |
| Manganese (total) | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 17 |
| Potassium (total) | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 17 |
| Sodium (total) | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 17 |
| Iron (filtered) | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 10 |
| Lithium (filtered) | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 17 |
| Manganese (filtered) | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 12 |
| Molybdenum (filtered) | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 12 |

Notes:

I:\25221066.00\Data and Calculations\Field Work Requests\Table_1_BGS_CCR_Rule_Sampling_2104.xls\$Sheet1



Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-204857-1

Login Number: 204857

List Source: Eurofins TestAmerica, Cedar Falls

List Number: 1

Creator: Homolar, Dana J

| Question | Answer | Comment |
|-----------------------------------------------------------------------------------------------------|--------|---------|
| Radioactivity wasn't checked or is \leq background as measured by a survey meter. | N/A | |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | N/A | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |



C3 July 2021 Assessment Monitoring – New Wells

ANALYTICAL REPORT

Eurofins TestAmerica, Cedar Falls
3019 Venture Way
Cedar Falls, IA 50613
Tel: (319)277-2401

Laboratory Job ID: 310-210119-1

Client Project/Site: Burlington Gen Station 25221066
Revision: 1

For:

SCS Engineers
2830 Dairy Drive
Madison, Wisconsin 53718

Attn: Meghan Blodgett



Authorized for release by:
8/9/2021 9:24:56 AM

Sandie Fredrick, Project Manager II
(920)261-1660
sandra.fredrick@eurofinset.com

LINKS

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results through
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www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Case Narrative

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-210119-1

Job ID: 310-210119-1

Laboratory: Eurofins TestAmerica, Cedar Falls

Narrative

Job Narrative
310-210119-1

Comments

No additional comments.

Receipt

The samples were received on 7/3/2021 9:20 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.1° C.

Receipt Exceptions

Revised Report: Client requested reanalysis of metals for Field Blank. Lab carryover suspected for initial result.

HPLC/IC

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Sample Summary

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-210119-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 310-210119-1 | MW-307B | Water | 07/01/21 17:15 | 07/03/21 09:20 |
| 310-210119-2 | MW-313B | Water | 07/01/21 19:00 | 07/03/21 09:20 |
| 310-210119-3 | Field Blank | Water | 07/01/21 17:15 | 07/03/21 09:20 |

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Detection Summary

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-210119-1

Client Sample ID: MW-307B

Lab Sample ID: 310-210119-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------------------|--------|-----------|------|-------|------------|---------|---|----------------|-----------|
| Chloride | 28 | | 5.0 | 2.2 | mg/L | 5 | | 9056A | Total/NA |
| Sulfate | 110 | | 5.0 | 2.5 | mg/L | 5 | | 9056A | Total/NA |
| Barium | 260 | | 2.0 | 0.30 | ug/L | 1 | | 6020A | Total/NA |
| Boron | 4700 | | 400 | 230 | ug/L | 4 | | 6020A | Total/NA |
| Calcium | 75 | | 0.50 | 0.19 | mg/L | 1 | | 6020A | Total/NA |
| Cobalt | 0.26 | J | 0.50 | 0.091 | ug/L | 1 | | 6020A | Total/NA |
| Lithium | 9.6 | J | 10 | 2.5 | ug/L | 1 | | 6020A | Total/NA |
| Molybdenum | 40 | | 2.0 | 1.3 | ug/L | 1 | | 6020A | Total/NA |
| Total Dissolved Solids | 330 | | 50 | 26 | mg/L | 1 | | SM 2540C | Total/NA |
| pH | 7.6 | HF | 0.1 | 0.1 | SU | 1 | | SM 4500 H+ B | Total/NA |
| Ground Water Elevation | 520.12 | | | | ft | 1 | | Field Sampling | Total/NA |
| Oxidation Reduction Potential | -76.5 | | | | millivolts | 1 | | Field Sampling | Total/NA |
| Oxygen, Dissolved, Client Supplied | 0.41 | | | | mg/L | 1 | | Field Sampling | Total/NA |
| pH, Field | 7.67 | | | | SU | 1 | | Field Sampling | Total/NA |
| Specific Conductance, Field | 587.1 | | | | umhos/cm | 1 | | Field Sampling | Total/NA |
| Temperature, Field | 15.3 | | | | Degrees C | 1 | | Field Sampling | Total/NA |
| Turbidity, Field | 1.26 | | | | NTU | 1 | | Field Sampling | Total/NA |

Client Sample ID: MW-313B

Lab Sample ID: 310-210119-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------------------|--------|-----------|------|-------|------------|---------|---|----------------|-----------|
| Chloride | 160 | | 5.0 | 2.2 | mg/L | 5 | | 9056A | Total/NA |
| Fluoride | 0.44 | J | 0.50 | 0.28 | mg/L | 5 | | 9056A | Total/NA |
| Sulfate | 170 | | 5.0 | 2.5 | mg/L | 5 | | 9056A | Total/NA |
| Barium | 210 | | 2.0 | 0.30 | ug/L | 1 | | 6020A | Total/NA |
| Boron | 4300 | | 100 | 58 | ug/L | 1 | | 6020A | Total/NA |
| Cadmium | 0.060 | J | 0.10 | 0.051 | ug/L | 1 | | 6020A | Total/NA |
| Calcium | 70 | | 0.50 | 0.19 | mg/L | 1 | | 6020A | Total/NA |
| Cobalt | 0.25 | J | 0.50 | 0.091 | ug/L | 1 | | 6020A | Total/NA |
| Lithium | 18 | | 10 | 2.5 | ug/L | 1 | | 6020A | Total/NA |
| Molybdenum | 100 | | 2.0 | 1.3 | ug/L | 1 | | 6020A | Total/NA |
| Total Dissolved Solids | 620 | | 50 | 26 | mg/L | 1 | | SM 2540C | Total/NA |
| pH | 6.4 | HF | 0.1 | 0.1 | SU | 1 | | SM 4500 H+ B | Total/NA |
| Ground Water Elevation | 519.51 | | | | ft | 1 | | Field Sampling | Total/NA |
| Oxidation Reduction Potential | -5.1 | | | | millivolts | 1 | | Field Sampling | Total/NA |
| Oxygen, Dissolved, Client Supplied | 0.37 | | | | mg/L | 1 | | Field Sampling | Total/NA |
| pH, Field | 7.62 | | | | SU | 1 | | Field Sampling | Total/NA |
| Specific Conductance, Field | 1052 | | | | umhos/cm | 1 | | Field Sampling | Total/NA |
| Temperature, Field | 15.2 | | | | Degrees C | 1 | | Field Sampling | Total/NA |
| Turbidity, Field | 0.00 | | | | NTU | 1 | | Field Sampling | Total/NA |

Client Sample ID: Field Blank

Lab Sample ID: 310-210119-3

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|-----|-----|------|---------|---|--------------|-----------|
| pH | 7.6 | HF | 0.1 | 0.1 | SU | 1 | | SM 4500 H+ B | Total/NA |

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Cedar Falls

Client Sample Results

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-210119-1

Client Sample ID: MW-307B

Lab Sample ID: 310-210119-1

Date Collected: 07/01/21 17:15

Matrix: Water

Date Received: 07/03/21 09:20

Method: 9056A - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------|------------|-----------|------|------|------|---|----------|----------------|---------|
| Chloride | 28 | | 5.0 | 2.2 | mg/L | | | 07/08/21 18:41 | 5 |
| Fluoride | <0.28 | | 0.50 | 0.28 | mg/L | | | 07/08/21 18:41 | 5 |
| Sulfate | 110 | | 5.0 | 2.5 | mg/L | | | 07/08/21 18:41 | 5 |

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------|---------------|-----------|------|-------|------|---|----------------|----------------|---------|
| Antimony | <1.1 | | 2.0 | 1.1 | ug/L | | 07/14/21 08:30 | 07/15/21 16:47 | 1 |
| Arsenic | <0.75 | | 2.0 | 0.75 | ug/L | | 07/14/21 08:30 | 07/15/21 16:47 | 1 |
| Barium | 260 | | 2.0 | 0.30 | ug/L | | 07/14/21 08:30 | 07/15/21 16:47 | 1 |
| Beryllium | <0.27 | | 1.0 | 0.27 | ug/L | | 07/14/21 08:30 | 07/15/21 16:47 | 1 |
| Boron | 4700 | | 400 | 230 | ug/L | | 07/14/21 08:30 | 07/16/21 14:16 | 4 |
| Cadmium | <0.051 | | 0.10 | 0.051 | ug/L | | 07/14/21 08:30 | 07/15/21 16:47 | 1 |
| Calcium | 75 | | 0.50 | 0.19 | mg/L | | 07/14/21 08:30 | 07/15/21 16:47 | 1 |
| Chromium | <1.1 | | 5.0 | 1.1 | ug/L | | 07/14/21 08:30 | 07/15/21 16:47 | 1 |
| Cobalt | 0.26 J | | 0.50 | 0.091 | ug/L | | 07/14/21 08:30 | 07/15/21 16:47 | 1 |
| Lead | <0.21 | | 0.50 | 0.21 | ug/L | | 07/14/21 08:30 | 07/15/21 16:47 | 1 |
| Lithium | 9.6 J | | 10 | 2.5 | ug/L | | 07/14/21 08:30 | 07/15/21 16:47 | 1 |
| Molybdenum | 40 | | 2.0 | 1.3 | ug/L | | 07/14/21 08:30 | 07/15/21 16:47 | 1 |
| Selenium | <0.96 | | 5.0 | 0.96 | ug/L | | 07/14/21 08:30 | 07/15/21 16:47 | 1 |
| Thallium | <0.26 | | 1.0 | 0.26 | ug/L | | 07/14/21 08:30 | 07/15/21 16:47 | 1 |

Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.15 | | 0.20 | 0.15 | ug/L | | 07/09/21 10:01 | 07/12/21 10:51 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|---------------|-----------|-----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 330 | | 50 | 26 | mg/L | | | 07/06/21 11:50 | 1 |
| pH | 7.6 HF | | 0.1 | 0.1 | SU | | | 07/03/21 13:14 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------------|---------------|-----------|----|-----|------------|---|----------|----------------|---------|
| Ground Water Elevation | 520.12 | | | | ft | | | 07/01/21 17:15 | 1 |
| Oxidation Reduction Potential | -76.5 | | | | millivolts | | | 07/01/21 17:15 | 1 |
| Oxygen, Dissolved, Client Supplied | 0.41 | | | | mg/L | | | 07/01/21 17:15 | 1 |
| pH, Field | 7.67 | | | | SU | | | 07/01/21 17:15 | 1 |
| Specific Conductance, Field | 587.1 | | | | umhos/cm | | | 07/01/21 17:15 | 1 |
| Temperature, Field | 15.3 | | | | Degrees C | | | 07/01/21 17:15 | 1 |
| Turbidity, Field | 1.26 | | | | NTU | | | 07/01/21 17:15 | 1 |

Client Sample Results

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-210119-1

Client Sample ID: MW-313B

Lab Sample ID: 310-210119-2

Date Collected: 07/01/21 19:00

Matrix: Water

Date Received: 07/03/21 09:20

Method: 9056A - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|------|------|---|----------|----------------|---------|
| Chloride | 160 | | 5.0 | 2.2 | mg/L | | | 07/08/21 19:27 | 5 |
| Fluoride | 0.44 | J | 0.50 | 0.28 | mg/L | | | 07/08/21 19:27 | 5 |
| Sulfate | 170 | | 5.0 | 2.5 | mg/L | | | 07/08/21 19:27 | 5 |

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Antimony | <1.1 | | 2.0 | 1.1 | ug/L | | 07/14/21 08:30 | 07/15/21 16:50 | 1 |
| Arsenic | <0.75 | | 2.0 | 0.75 | ug/L | | 07/14/21 08:30 | 07/15/21 16:50 | 1 |
| Barium | 210 | | 2.0 | 0.30 | ug/L | | 07/14/21 08:30 | 07/15/21 16:50 | 1 |
| Beryllium | <0.27 | | 1.0 | 0.27 | ug/L | | 07/14/21 08:30 | 07/15/21 16:50 | 1 |
| Boron | 4300 | | 100 | 58 | ug/L | | 07/14/21 08:30 | 07/15/21 16:50 | 1 |
| Cadmium | 0.060 | J | 0.10 | 0.051 | ug/L | | 07/14/21 08:30 | 07/15/21 16:50 | 1 |
| Calcium | 70 | | 0.50 | 0.19 | mg/L | | 07/14/21 08:30 | 07/15/21 16:50 | 1 |
| Chromium | <1.1 | | 5.0 | 1.1 | ug/L | | 07/14/21 08:30 | 07/15/21 16:50 | 1 |
| Cobalt | 0.25 | J | 0.50 | 0.091 | ug/L | | 07/14/21 08:30 | 07/15/21 16:50 | 1 |
| Lead | <0.21 | | 0.50 | 0.21 | ug/L | | 07/14/21 08:30 | 07/15/21 16:50 | 1 |
| Lithium | 18 | | 10 | 2.5 | ug/L | | 07/14/21 08:30 | 07/15/21 16:50 | 1 |
| Molybdenum | 100 | | 2.0 | 1.3 | ug/L | | 07/14/21 08:30 | 07/15/21 16:50 | 1 |
| Selenium | <0.96 | | 5.0 | 0.96 | ug/L | | 07/14/21 08:30 | 07/15/21 16:50 | 1 |
| Thallium | <0.26 | | 1.0 | 0.26 | ug/L | | 07/14/21 08:30 | 07/15/21 16:50 | 1 |

Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.15 | | 0.20 | 0.15 | ug/L | | 07/09/21 10:01 | 07/12/21 10:53 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 620 | | 50 | 26 | mg/L | | | 07/06/21 11:50 | 1 |
| pH | 6.4 | HF | 0.1 | 0.1 | SU | | | 07/03/21 13:12 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|--------|-----------|----|-----|------------|---|----------|----------------|---------|
| Ground Water Elevation | 519.51 | | | | ft | | | 07/01/21 19:00 | 1 |
| Oxidation Reduction Potential | -5.1 | | | | millivolts | | | 07/01/21 19:00 | 1 |
| Oxygen, Dissolved, Client Supplied | 0.37 | | | | mg/L | | | 07/01/21 19:00 | 1 |
| pH, Field | 7.62 | | | | SU | | | 07/01/21 19:00 | 1 |
| Specific Conductance, Field | 1052 | | | | umhos/cm | | | 07/01/21 19:00 | 1 |
| Temperature, Field | 15.2 | | | | Degrees C | | | 07/01/21 19:00 | 1 |
| Turbidity, Field | 0.00 | | | | NTU | | | 07/01/21 19:00 | 1 |

Client Sample Results

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-210119-1

Client Sample ID: Field Blank

Lab Sample ID: 310-210119-3

Date Collected: 07/01/21 17:15

Matrix: Water

Date Received: 07/03/21 09:20

Method: 9056A - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | <0.43 | | 1.0 | 0.43 | mg/L | | | 07/08/21 19:43 | 1 |
| Fluoride | <0.055 | | 0.10 | 0.055 | mg/L | | | 07/08/21 19:43 | 1 |
| Sulfate | <0.49 | | 1.0 | 0.49 | mg/L | | | 07/08/21 19:43 | 1 |

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Antimony | <1.1 | | 2.0 | 1.1 | ug/L | | 07/14/21 08:30 | 07/15/21 16:53 | 1 |
| Arsenic | <0.75 | | 2.0 | 0.75 | ug/L | | 07/14/21 08:30 | 07/15/21 16:53 | 1 |
| Barium | <0.30 | | 2.0 | 0.30 | ug/L | | 07/14/21 08:30 | 07/15/21 16:53 | 1 |
| Beryllium | <0.27 | | 1.0 | 0.27 | ug/L | | 07/14/21 08:30 | 07/15/21 16:53 | 1 |
| Boron | <58 | | 100 | 58 | ug/L | | 07/14/21 08:30 | 08/06/21 12:08 | 1 |
| Cadmium | <0.051 | | 0.10 | 0.051 | ug/L | | 07/14/21 08:30 | 07/15/21 16:53 | 1 |
| Calcium | <0.19 | | 0.50 | 0.19 | mg/L | | 07/14/21 08:30 | 07/15/21 16:53 | 1 |
| Chromium | <1.1 | | 5.0 | 1.1 | ug/L | | 07/14/21 08:30 | 07/15/21 16:53 | 1 |
| Cobalt | <0.091 | | 0.50 | 0.091 | ug/L | | 07/14/21 08:30 | 07/15/21 16:53 | 1 |
| Lead | <0.21 | | 0.50 | 0.21 | ug/L | | 07/14/21 08:30 | 07/15/21 16:53 | 1 |
| Lithium | <2.5 | | 10 | 2.5 | ug/L | | 07/14/21 08:30 | 07/15/21 16:53 | 1 |
| Molybdenum | <1.3 | | 2.0 | 1.3 | ug/L | | 07/14/21 08:30 | 07/15/21 16:53 | 1 |
| Selenium | <0.96 | | 5.0 | 0.96 | ug/L | | 07/14/21 08:30 | 07/15/21 16:53 | 1 |
| Thallium | <0.26 | | 1.0 | 0.26 | ug/L | | 07/14/21 08:30 | 07/15/21 16:53 | 1 |

Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.15 | | 0.20 | 0.15 | ug/L | | 07/09/21 10:01 | 07/12/21 10:55 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | <26 | | 50 | 26 | mg/L | | | 07/06/21 11:50 | 1 |
| pH | 7.6 | HF | 0.1 | 0.1 | SU | | | 07/03/21 13:08 | 1 |

Definitions/Glossary

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-210119-1

Qualifiers

HPLC/IC

| Qualifier | Qualifier Description |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4 | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

Metals

| Qualifier | Qualifier Description |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| F5 | Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

General Chemistry

| Qualifier | Qualifier Description |
|-----------|------------------------------------------------------------------------------------------------------|
| HF | Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. |

Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|----------------|-------------------------------------------------------------------------------------------------------------|
| α | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CFU | Colony Forming Unit |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MCL | EPA recommended "Maximum Contaminant Level" |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| MPN | Most Probable Number |
| MQL | Method Quantitation Limit |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| NEG | Negative / Absent |
| POS | Positive / Present |
| PQL | Practical Quantitation Limit |
| PRES | Presumptive |
| QC | Quality Control |
| RER | Relative Error Ratio (Radiochemistry) |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |
| TNTC | Too Numerous To Count |

QC Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-210119-1

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 310-321952/3
Matrix: Water
Analysis Batch: 321952

Client Sample ID: Method Blank
Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|-----------|--------------|------|-------|------|---|----------|----------------|---------|
| Chloride | <0.43 | | 1.0 | 0.43 | mg/L | | | 07/08/21 16:51 | 1 |
| Fluoride | <0.055 | | 0.10 | 0.055 | mg/L | | | 07/08/21 16:51 | 1 |
| Sulfate | <0.49 | | 1.0 | 0.49 | mg/L | | | 07/08/21 16:51 | 1 |

Lab Sample ID: LCS 310-321952/4
Matrix: Water
Analysis Batch: 321952

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|------|---|------|--------------|
| Chloride | 10.0 | 9.97 | | mg/L | | 100 | 90 - 110 |
| Fluoride | 2.00 | 2.13 | | mg/L | | 107 | 90 - 110 |
| Sulfate | 10.0 | 10.5 | | mg/L | | 105 | 90 - 110 |

Lab Sample ID: 310-210119-1 MS
Matrix: Water
Analysis Batch: 321952

Client Sample ID: MW-307B
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Chloride | 28 | | 25.0 | 50.7 | | mg/L | | 92 | 80 - 120 |
| Fluoride | <0.28 | | 5.00 | 5.20 | | mg/L | | 104 | 80 - 120 |
| Sulfate | 110 | | 25.0 | 130 | 4 | mg/L | | 72 | 80 - 120 |

Lab Sample ID: 310-210119-1 MSD
Matrix: Water
Analysis Batch: 321952

Client Sample ID: MW-307B
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Chloride | 28 | | 25.0 | 51.4 | | mg/L | | 94 | 80 - 120 | 1 | 15 |
| Fluoride | <0.28 | | 5.00 | 5.26 | | mg/L | | 105 | 80 - 120 | 1 | 15 |
| Sulfate | 110 | | 25.0 | 131 | 4 | mg/L | | 76 | 80 - 120 | 1 | 15 |

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 310-322314/1-A
Matrix: Water
Analysis Batch: 322608

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 322314

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|-----------|--------------|------|-------|------|---|----------------|----------------|---------|
| Antimony | <1.1 | | 2.0 | 1.1 | ug/L | | 07/14/21 08:30 | 07/15/21 15:08 | 1 |
| Arsenic | <0.75 | | 2.0 | 0.75 | ug/L | | 07/14/21 08:30 | 07/15/21 15:08 | 1 |
| Barium | <0.30 | | 2.0 | 0.30 | ug/L | | 07/14/21 08:30 | 07/15/21 15:08 | 1 |
| Beryllium | <0.27 | | 1.0 | 0.27 | ug/L | | 07/14/21 08:30 | 07/15/21 15:08 | 1 |
| Boron | <58 | | 100 | 58 | ug/L | | 07/14/21 08:30 | 07/15/21 15:08 | 1 |
| Cadmium | <0.051 | | 0.10 | 0.051 | ug/L | | 07/14/21 08:30 | 07/15/21 15:08 | 1 |
| Calcium | <0.19 | | 0.50 | 0.19 | mg/L | | 07/14/21 08:30 | 07/15/21 15:08 | 1 |
| Chromium | <1.1 | | 5.0 | 1.1 | ug/L | | 07/14/21 08:30 | 07/15/21 15:08 | 1 |
| Cobalt | <0.091 | | 0.50 | 0.091 | ug/L | | 07/14/21 08:30 | 07/15/21 15:08 | 1 |
| Lead | <0.21 | | 0.50 | 0.21 | ug/L | | 07/14/21 08:30 | 07/15/21 15:08 | 1 |
| Lithium | <2.5 | | 10 | 2.5 | ug/L | | 07/14/21 08:30 | 07/15/21 15:08 | 1 |
| Molybdenum | <1.3 | | 2.0 | 1.3 | ug/L | | 07/14/21 08:30 | 07/15/21 15:08 | 1 |

Eurofins TestAmerica, Cedar Falls

QC Sample Results

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-210119-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 310-322314/1-A
Matrix: Water
Analysis Batch: 322608

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 322314

| Analyte | MB MB | | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Selenium | <0.96 | | 5.0 | 0.96 | ug/L | | 07/14/21 08:30 | 07/15/21 15:08 | 1 |
| Thallium | <0.26 | | 1.0 | 0.26 | ug/L | | 07/14/21 08:30 | 07/15/21 15:08 | 1 |

Lab Sample ID: LCS 310-322314/2-A
Matrix: Water
Analysis Batch: 322608

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322314

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|------------|-------------|------------|---------------|------|---|------|--------------|
| | | | | | | | |
| Arsenic | 200 | 204 | | ug/L | | 102 | 80 - 120 |
| Barium | 100 | 104 | | ug/L | | 104 | 80 - 120 |
| Beryllium | 100 | 103 | | ug/L | | 103 | 80 - 120 |
| Boron | 200 | 198 | | ug/L | | 99 | 80 - 120 |
| Cadmium | 100 | 102 | | ug/L | | 102 | 80 - 120 |
| Calcium | 2.00 | 2.13 | | mg/L | | 107 | 80 - 120 |
| Chromium | 100 | 102 | | ug/L | | 102 | 80 - 120 |
| Cobalt | 100 | 105 | | ug/L | | 105 | 80 - 120 |
| Lead | 200 | 218 | | ug/L | | 109 | 80 - 120 |
| Lithium | 200 | 208 | | ug/L | | 104 | 80 - 120 |
| Molybdenum | 200 | 211 | | ug/L | | 105 | 80 - 120 |
| Selenium | 400 | 385 | | ug/L | | 96 | 80 - 120 |
| Thallium | 200 | 218 | | ug/L | | 109 | 80 - 120 |

Lab Sample ID: 310-210119-3 DU
Matrix: Water
Analysis Batch: 322608

Client Sample ID: Field Blank
Prep Type: Total/NA
Prep Batch: 322314

| Analyte | Sample Result | Sample Qualifier | DU DU | | Unit | D | RPD RPD | |
|------------|---------------|------------------|--------|-----------|------|---|---------|-------|
| | | | Result | Qualifier | | | RPD | Limit |
| Antimony | <1.1 | | <1.1 | | ug/L | | NC | 20 |
| Arsenic | <0.75 | | <0.75 | | ug/L | | NC | 20 |
| Barium | <0.30 | | <0.30 | | ug/L | | NC | 20 |
| Beryllium | <0.27 | | <0.27 | | ug/L | | NC | 20 |
| Boron | 120 | | 63.2 | J F5 | ug/L | | 61 | 20 |
| Cadmium | <0.051 | | <0.051 | | ug/L | | NC | 20 |
| Calcium | <0.19 | | <0.19 | | mg/L | | NC | 20 |
| Chromium | <1.1 | | <1.1 | | ug/L | | NC | 20 |
| Cobalt | <0.091 | | <0.091 | | ug/L | | NC | 20 |
| Lead | <0.21 | | <0.21 | | ug/L | | NC | 20 |
| Lithium | <2.5 | | <2.5 | | ug/L | | NC | 20 |
| Molybdenum | <1.3 | | <1.3 | | ug/L | | NC | 20 |
| Selenium | <0.96 | | <0.96 | | ug/L | | NC | 20 |
| Thallium | <0.26 | | <0.26 | | ug/L | | NC | 20 |

QC Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-210119-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 310-321907/1-A
Matrix: Water
Analysis Batch: 322113

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 321907

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.15 | | 0.20 | 0.15 | ug/L | | 07/09/21 10:01 | 07/12/21 10:13 | 1 |

Lab Sample ID: LCS 310-321907/2-A
Matrix: Water
Analysis Batch: 322113

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 321907

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|-------------|------------|---------------|------|---|------|--------------|
| Mercury | 1.67 | 1.75 | | ug/L | | 105 | 80 - 120 |

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 310-321496/1
Matrix: Water
Analysis Batch: 321496

Client Sample ID: Method Blank
Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|-----------|--------------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | <26 | | 50 | 26 | mg/L | | | 07/06/21 11:50 | 1 |

Lab Sample ID: LCS 310-321496/2
Matrix: Water
Analysis Batch: 321496

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|------------------------|-------------|------------|---------------|------|---|------|--------------|
| Total Dissolved Solids | 1000 | 980 | | mg/L | | 98 | 90 - 110 |

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 310-321375/1
Matrix: Water
Analysis Batch: 321375

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|-------------|------------|---------------|------|---|------|--------------|
| pH | 7.00 | 7.1 | | SU | | 101 | 98 - 102 |

Lab Sample ID: 310-210119-3 DU
Matrix: Water
Analysis Batch: 321375

Client Sample ID: Field Blank
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|---------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| pH | 7.6 | HF | 7.6 | | SU | | 0.3 | 20 |

QC Association Summary

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-210119-1

HPLC/IC

Analysis Batch: 321952

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 310-210119-1 | MW-307B | Total/NA | Water | 9056A | |
| 310-210119-2 | MW-313B | Total/NA | Water | 9056A | |
| 310-210119-3 | Field Blank | Total/NA | Water | 9056A | |
| MB 310-321952/3 | Method Blank | Total/NA | Water | 9056A | |
| LCS 310-321952/4 | Lab Control Sample | Total/NA | Water | 9056A | |
| 310-210119-1 MS | MW-307B | Total/NA | Water | 9056A | |
| 310-210119-1 MSD | MW-307B | Total/NA | Water | 9056A | |

Metals

Prep Batch: 321907

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 310-210119-1 | MW-307B | Total/NA | Water | 7470A | |
| 310-210119-2 | MW-313B | Total/NA | Water | 7470A | |
| 310-210119-3 | Field Blank | Total/NA | Water | 7470A | |
| MB 310-321907/1-A | Method Blank | Total/NA | Water | 7470A | |
| LCS 310-321907/2-A | Lab Control Sample | Total/NA | Water | 7470A | |

Analysis Batch: 322113

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 310-210119-1 | MW-307B | Total/NA | Water | 7470A | 321907 |
| 310-210119-2 | MW-313B | Total/NA | Water | 7470A | 321907 |
| 310-210119-3 | Field Blank | Total/NA | Water | 7470A | 321907 |
| MB 310-321907/1-A | Method Blank | Total/NA | Water | 7470A | 321907 |
| LCS 310-321907/2-A | Lab Control Sample | Total/NA | Water | 7470A | 321907 |

Prep Batch: 322314

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 310-210119-1 | MW-307B | Total/NA | Water | 3010A | |
| 310-210119-2 | MW-313B | Total/NA | Water | 3010A | |
| 310-210119-3 | Field Blank | Total/NA | Water | 3010A | |
| MB 310-322314/1-A | Method Blank | Total/NA | Water | 3010A | |
| LCS 310-322314/2-A | Lab Control Sample | Total/NA | Water | 3010A | |
| 310-210119-3 DU | Field Blank | Total/NA | Water | 3010A | |

Analysis Batch: 322608

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 310-210119-1 | MW-307B | Total/NA | Water | 6020A | 322314 |
| 310-210119-2 | MW-313B | Total/NA | Water | 6020A | 322314 |
| 310-210119-3 | Field Blank | Total/NA | Water | 6020A | 322314 |
| MB 310-322314/1-A | Method Blank | Total/NA | Water | 6020A | 322314 |
| LCS 310-322314/2-A | Lab Control Sample | Total/NA | Water | 6020A | 322314 |
| 310-210119-3 DU | Field Blank | Total/NA | Water | 6020A | 322314 |

Analysis Batch: 322749

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 310-210119-1 | MW-307B | Total/NA | Water | 6020A | 322314 |

Analysis Batch: 324652

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 310-210119-3 | Field Blank | Total/NA | Water | 6020A | 322314 |

Eurofins TestAmerica, Cedar Falls

QC Association Summary

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-210119-1

General Chemistry

Analysis Batch: 321375

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------------|------------|
| 310-210119-1 | MW-307B | Total/NA | Water | SM 4500 H+ B | |
| 310-210119-2 | MW-313B | Total/NA | Water | SM 4500 H+ B | |
| 310-210119-3 | Field Blank | Total/NA | Water | SM 4500 H+ B | |
| LCS 310-321375/1 | Lab Control Sample | Total/NA | Water | SM 4500 H+ B | |
| 310-210119-3 DU | Field Blank | Total/NA | Water | SM 4500 H+ B | |

Analysis Batch: 321496

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|----------|------------|
| 310-210119-1 | MW-307B | Total/NA | Water | SM 2540C | |
| 310-210119-2 | MW-313B | Total/NA | Water | SM 2540C | |
| 310-210119-3 | Field Blank | Total/NA | Water | SM 2540C | |
| MB 310-321496/1 | Method Blank | Total/NA | Water | SM 2540C | |
| LCS 310-321496/2 | Lab Control Sample | Total/NA | Water | SM 2540C | |

Field Service / Mobile Lab

Analysis Batch: 323059

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|----------------|------------|
| 310-210119-1 | MW-307B | Total/NA | Water | Field Sampling | |
| 310-210119-2 | MW-313B | Total/NA | Water | Field Sampling | |

Lab Chronicle

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-210119-1

Client Sample ID: MW-307B

Lab Sample ID: 310-210119-1

Date Collected: 07/01/21 17:15

Matrix: Water

Date Received: 07/03/21 09:20

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Analysis | 9056A | | 5 | 321952 | 07/08/21 18:41 | JNR | TAL CF |
| Total/NA | Prep | 3010A | | | 322314 | 07/14/21 08:30 | ACM2 | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 322608 | 07/15/21 16:47 | SAP | TAL CF |
| Total/NA | Prep | 3010A | | | 322314 | 07/14/21 08:30 | ACM2 | TAL CF |
| Total/NA | Analysis | 6020A | | 4 | 322749 | 07/16/21 14:16 | SAP | TAL CF |
| Total/NA | Prep | 7470A | | | 321907 | 07/09/21 10:01 | JNR | TAL CF |
| Total/NA | Analysis | 7470A | | 1 | 322113 | 07/12/21 10:51 | JNR | TAL CF |
| Total/NA | Analysis | SM 2540C | | 1 | 321496 | 07/06/21 11:50 | ARG | TAL CF |
| Total/NA | Analysis | SM 4500 H+ B | | 1 | 321375 | 07/03/21 13:14 | AJW | TAL CF |
| Total/NA | Analysis | Field Sampling | | 1 | 323059 | 07/01/21 17:15 | SJF | TAL CF |

Client Sample ID: MW-313B

Lab Sample ID: 310-210119-2

Date Collected: 07/01/21 19:00

Matrix: Water

Date Received: 07/03/21 09:20

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Analysis | 9056A | | 5 | 321952 | 07/08/21 19:27 | JNR | TAL CF |
| Total/NA | Prep | 3010A | | | 322314 | 07/14/21 08:30 | ACM2 | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 322608 | 07/15/21 16:50 | SAP | TAL CF |
| Total/NA | Prep | 7470A | | | 321907 | 07/09/21 10:01 | JNR | TAL CF |
| Total/NA | Analysis | 7470A | | 1 | 322113 | 07/12/21 10:53 | JNR | TAL CF |
| Total/NA | Analysis | SM 2540C | | 1 | 321496 | 07/06/21 11:50 | ARG | TAL CF |
| Total/NA | Analysis | SM 4500 H+ B | | 1 | 321375 | 07/03/21 13:12 | AJW | TAL CF |
| Total/NA | Analysis | Field Sampling | | 1 | 323059 | 07/01/21 19:00 | SJF | TAL CF |

Client Sample ID: Field Blank

Lab Sample ID: 310-210119-3

Date Collected: 07/01/21 17:15

Matrix: Water

Date Received: 07/03/21 09:20

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Analysis | 9056A | | 1 | 321952 | 07/08/21 19:43 | JNR | TAL CF |
| Total/NA | Prep | 3010A | | | 322314 | 07/14/21 08:30 | ACM2 | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 322608 | 07/15/21 16:53 | SAP | TAL CF |
| Total/NA | Prep | 3010A | | | 322314 | 07/14/21 08:30 | ACM2 | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 324652 | 08/06/21 12:08 | SAP | TAL CF |
| Total/NA | Prep | 7470A | | | 321907 | 07/09/21 10:01 | JNR | TAL CF |
| Total/NA | Analysis | 7470A | | 1 | 322113 | 07/12/21 10:55 | JNR | TAL CF |
| Total/NA | Analysis | SM 2540C | | 1 | 321496 | 07/06/21 11:50 | ARG | TAL CF |
| Total/NA | Analysis | SM 4500 H+ B | | 1 | 321375 | 07/03/21 13:08 | AJW | TAL CF |

Laboratory References:

TAL CF = Eurofins TestAmerica, Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

Eurofins TestAmerica, Cedar Falls

Accreditation/Certification Summary

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-210119-1

Laboratory: Eurofins TestAmerica, Cedar Falls

The accreditations/certifications listed below are applicable to this report.

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| Iowa | State | 007 | 12-01-21 |

- 1
- 2
- 3
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- 6
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- 8
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- 14
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Method Summary

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-210119-1

| Method | Method Description | Protocol | Laboratory |
|----------------|-------------------------------|----------|------------|
| 9056A | Anions, Ion Chromatography | SW846 | TAL CF |
| 6020A | Metals (ICP/MS) | SW846 | TAL CF |
| 7470A | Mercury (CVAA) | SW846 | TAL CF |
| SM 2540C | Solids, Total Dissolved (TDS) | SM | TAL CF |
| SM 4500 H+ B | pH | SM | TAL CF |
| Field Sampling | Field Sampling | EPA | TAL CF |
| 3010A | Preparation, Total Metals | SW846 | TAL CF |
| 7470A | Preparation, Mercury | SW846 | TAL CF |

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CF = Eurofins TestAmerica, Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401



Environment Testing
TestAmerica



310-210119 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

| Client Information | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-----------------------------------------|
| Client: <u>SCS Engineers</u> | | | |
| City/State: | CITY <u>Burlington</u> | STATE <u>IA</u> | Project: <u>Burlington City station</u> |
| Receipt Information | | | |
| Date/Time Received: | DATE <u>7/08/2021</u> | TIME <u>9:20</u> | Received By: <u>AW</u> |
| Delivery Type: | <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <u>SAT</u> <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____ | | |
| Condition of Cooler/Containers | | | |
| Sample(s) received in Cooler? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If yes: Cooler ID: _____ | |
| Multiple Coolers? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If yes: Cooler # _____ of _____ | |
| Cooler Custody Seals Present? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If yes: Cooler custody seals intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| Sample Custody Seals Present? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No | |
| Trip Blank Present? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If yes: Which VOA samples are in cooler? ↓ | |
| | | | |
| Temperature Record | | | |
| Coolant: | <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE | | |
| Thermometer ID: <u>R</u> | Correction Factor (°C): <u>0</u> | | |
| • Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature | | | |
| Uncorrected Temp (°C): <u>1.1</u> | Corrected Temp (°C): <u>1.1</u> | | |
| • Sample Container Temperature | | | |
| Container(s) used: | <u>CONTAINER 1</u> | <u>CONTAINER 2</u> | |
| Uncorrected Temp (°C): | | | |
| Corrected Temp (°C): | | | |
| Exceptions Noted | | | |
| 1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No | | | |
| a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No | | | |
| 2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No | | | |
| NOTE: If yes, contact PM before proceeding. If no, proceed with login | | | |
| Additional Comments | | | |
| | | | |
| | | | |
| | | | |

Chain of Custody Record

| | | | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| Client Information Client Contact: <u>Meghan Blodgett</u> Company: <u>SCS Engineers</u> Address: <u>2450 Hickman Road Suite #7 2830 Dairy Pr. Madison WI 53718</u> City: <u>Madison</u> State, Zip: <u>WI 53718</u> Phone: <u>608-224-2830</u> Email: <u>mblodgett@scsengineers.com</u> Project Name: <u>Burlington Gen Station 25220066</u> Site: | | Sampler: <u>Adam Watson</u> Lab PM: <u>Fredrick Sande</u> Phone: <u>608-250-9985</u> E-Mail: <u>sandra.fredrick@eurofins.com</u> PWSID | | Carrier Tracking No(s): State of Origin: COC No: <u>310-61521-16112.1</u> Page: <u>Page 1 of 1</u> Job #: | |
| Due Date Requested: TAT Requested (days): Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No PO #: <u>25220066</u> WO #: <u>31011020</u> Project #: <u>31011020</u> SOW#: | | Analysis Requested | | | |
| Sample Identification <u>MW-307B</u> <u>MW-313B</u> <u>Field Blank</u> | | Sample Date <u>7/11/21</u> <u>7/11/21</u> <u>7/11/21</u> | Sample Time <u>1715</u> <u>1900</u> <u>1715</u> | Sample Type (C=comp, G=grab) <u>Water</u> <u>Water</u> <u>Water</u> | Matrix (W=water, S=sediment, O=soil, BT=tissue, A=air) <u>Water</u> <u>Water</u> <u>Water</u> |
| Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) | | Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) | | Total Number of Containers | |
| 5020A - Metals - Hg 2540C - Catcd, 9356A_ORGFM_2BD, SM4500_H+ 903 0 - Radium 226 904 0 - Radium 228 | | D N D D X X X X X X X X X X X X | | Special Instructions/Note: Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water V - MCAA W - pH 4-5 L - EDTA Other: | |
| Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify) Empty Kit Relinquished by: | | | | | |
| Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months | | | | | |
| Special Instructions/QC Requirements: | | | | | |
| Reinquished by: <u>Adam Watson</u> Date/Time: <u>7/12/21 1230</u> | | Reinquished by: <u>JES Eng</u> Date/Time: | | Reinquished by: _____ Date/Time: | |
| Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No | | Cooler Temperature(s) °C and Other Remarks: | | | |



Table 1. Sampling Points and Parameters - CCR Rule Sampling Program Assessment Monitoring
Groundwater Monitoring - Burlington Generating Station / SCS Engineers Project #25221066

| Parameter | MW-301 | MW-302 | MW-302A | MW-303 | MW-304 | MW-305 | MW-306 | MW-307 | MW-307B | MW-308 | MW-310 | MW-310A | MW-311 | MW-312 | MW-313 | MW-313A | MW-313B | Field Blank | TOTAL |
|----------------------------------|--------|--------|---------|--------|--------|--------|--------|--------|---------|--------|--------|---------|--------|--------|--------|---------|---------|-------------|-------|
| Appendix III Parameters | | | | | | | | | | | | | | | | | | | |
| Boron | | | | | | | | | | | | | | | | | | | 3 |
| Calcium | | | | | | | | | | | | | | | | | | | 3 |
| Chloride | | | | | | | | | | | | | | | | | | | 3 |
| Fluoride | | | | | | | | | | | | | | | | | | | 3 |
| pH | | | | | | | | | | | | | | | | | | | 3 |
| Sulfate | | | | | | | | | | | | | | | | | | | 3 |
| TDS | | | | | | | | | | | | | | | | | | | 3 |
| Appendix IV Parameters | | | | | | | | | | | | | | | | | | | |
| Antimony | | | | | | | | | | | | | | | | | | | 3 |
| Arsenic | | | | | | | | | | | | | | | | | | | 3 |
| Barium | | | | | | | | | | | | | | | | | | | 3 |
| Beryllium | | | | | | | | | | | | | | | | | | | 3 |
| Cadmium | | | | | | | | | | | | | | | | | | | 3 |
| Chromium | | | | | | | | | | | | | | | | | | | 3 |
| Cobalt | | | | | | | | | | | | | | | | | | | 3 |
| Fluoride | | | | | | | | | | | | | | | | | | | 3 |
| Lead | | | | | | | | | | | | | | | | | | | 3 |
| Lithium | | | | | | | | | | | | | | | | | | | 3 |
| Mercury | | | | | | | | | | | | | | | | | | | 3 |
| Molybdenum | | | | | | | | | | | | | | | | | | | 3 |
| Selenium | | | | | | | | | | | | | | | | | | | 3 |
| Thallium | | | | | | | | | | | | | | | | | | | 3 |
| Radium | | | | | | | | | | | | | | | | | | | 3 |
| Field Parameters | | | | | | | | | | | | | | | | | | | |
| Ferrous Iron (ChemMetrics) | | | | | | | | | | | | | | | | | | | 2 |
| Sulfide (ChemMetrics) | | | | | | | | | | | | | | | | | | | 2 |
| Groundwater Elevation | | | | | | | | | | | | | | | | | | | 2 |
| Well Depth | | | | | | | | | | | | | | | | | | | 2 |
| pH (field) | | | | | | | | | | | | | | | | | | | 2 |
| Specific Conductance | | | | | | | | | | | | | | | | | | | 2 |
| Dissolved Oxygen | | | | | | | | | | | | | | | | | | | 2 |
| ORP | | | | | | | | | | | | | | | | | | | 2 |
| Temperature | | | | | | | | | | | | | | | | | | | 2 |
| Turbidity | | | | | | | | | | | | | | | | | | | 2 |
| Color | | | | | | | | | | | | | | | | | | | 2 |
| Odor | | | | | | | | | | | | | | | | | | | 2 |
| Additional Lab Parameters | | | | | | | | | | | | | | | | | | | |
| Bicarbonate (total) | | | | | | | | | | | | | | | | | | | 3 |
| Carbonate (total) | | | | | | | | | | | | | | | | | | | 3 |
| Iron (total) | | | | | | | | | | | | | | | | | | | 3 |
| Magnesium (total) | | | | | | | | | | | | | | | | | | | 3 |
| Manganese (total) | | | | | | | | | | | | | | | | | | | 3 |
| Potassium (total) | | | | | | | | | | | | | | | | | | | 3 |
| Sodium (total) | | | | | | | | | | | | | | | | | | | 3 |
| Iron (filtered) | | | | | | | | | | | | | | | | | | | 3 |
| Lithium (filtered) | | | | | | | | | | | | | | | | | | | 2 |
| Manganese (filtered) | | | | | | | | | | | | | | | | | | | 2 |
| Molybdenum (filtered) | | | | | | | | | | | | | | | | | | | 2 |

Notes:
I:\25221066.00\Data and Calculations\Field Work Requests\Table_1_BGS_CCR_Rule_Sampling_2106.xls\Sheet1



Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-210119-1

Login Number: 210119

List Source: Eurofins TestAmerica, Cedar Falls

List Number: 1

Creator: Watkins, Allison R

| Question | Answer | Comment |
|-----------------------------------------------------------------------------------------------------|--------|---------|
| Radioactivity wasn't checked or is \leq background as measured by a survey meter. | N/A | |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | N/A | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

**Table 1. Groundwater Monitoring Results - Field Parameters
Burlington Generating Station / SCS Engineers Project #25221066.00
July 2021**

| Sample | Sample Date/Time | Temperature (Deg. C) | pH (Std. Units) | Dissolved Oxygen (mg/L) | Specific Conductivity (µmhos/cm) | ORP (mV) | Turbidity | Groundwater Elevation (amsl) |
|---------------|-------------------------|-----------------------------|------------------------|--------------------------------|-----------------------------------------|-----------------|------------------|-------------------------------------|
| MW-307B | 7/1/2021 17:15 | 15.3 | 7.67 | 0.41 | 587.1 | -76.5 | 1.26 | 520.12 |
| MW-313B | 7/1/2021 19:00 | 15.2 | 7.62 | 0.37 | 1,052 | -5.1 | 0.00 | 519.51 |

Abbreviations:

mg/L = milligrams per liter
mV = millivolts

amsl = above mean sea level
µmhos/cm = micromohs per cm

-- = Not Applicable
NM = not measured

Created by: NDK
Last revision by: NDK
Checked by: JR
Scient QA/QC: _____

Date: 7/20/2021
Date: 7/20/2021
Date: 7/21/2021
Date: _____

C:\Users\fredricks\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\PAJXB4G4\[2107 - BGS_CCR_Field.xlsx]GW Field Parameters

ANALYTICAL REPORT

Eurofins TestAmerica, Cedar Falls
3019 Venture Way
Cedar Falls, IA 50613
Tel: (319)277-2401

Laboratory Job ID: 310-210119-3

Client Project/Site: Burlington Gen Station 25221066

For:

SCS Engineers
2830 Dairy Drive
Madison, Wisconsin 53718

Attn: Meghan Blodgett



*Authorized for release by:
8/5/2021 10:16:51 PM*

Sandie Fredrick, Project Manager II
(920)261-1660
sandra.fredrick@eurofinset.com

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results through
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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Case Narrative

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-210119-3

Job ID: 310-210119-3

Laboratory: Eurofins TestAmerica, Cedar Falls

Narrative

Job Narrative 310-210119-3

Comments

No additional comments.

Receipt

The samples were received on 7/3/2021 9:20 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.1° C.

RAD

Methods 903.0, 9315: Radium-226 Batch 517603 Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. MW-307B (310-210119-1), MW-313B (310-210119-2), Field Blank (310-210119-3), (LCS 160-517603/1-A), (MB 160-517603/23-A), (160-42599-A-1-B) and (160-42599-A-1-C DU)

Methods 904.0, 9320: Radium-228 Batch 520433 Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. MW-307B (310-210119-1), MW-313B (310-210119-2), Field Blank (310-210119-3), (LCS 160-520433/1-A), (MB 160-520433/23-A), (160-42599-A-2-F) and (160-42599-A-2-H DU)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.



Sample Summary

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-210119-3

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 310-210119-1 | MW-307B | Water | 07/01/21 17:15 | 07/03/21 09:20 |
| 310-210119-2 | MW-313B | Water | 07/01/21 19:00 | 07/03/21 09:20 |
| 310-210119-3 | Field Blank | Water | 07/01/21 17:15 | 07/03/21 09:20 |

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Detection Summary

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-210119-3

Client Sample ID: MW-307B

Lab Sample ID: 310-210119-1

No Detections.

Client Sample ID: MW-313B

Lab Sample ID: 310-210119-2

No Detections.

Client Sample ID: Field Blank

Lab Sample ID: 310-210119-3

No Detections.

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15

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Cedar Falls

Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-210119-3

Client Sample ID: MW-307B

Lab Sample ID: 310-210119-1

Date Collected: 07/01/21 17:15

Matrix: Water

Date Received: 07/03/21 09:20

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium 226 | 0.289 | | 0.107 | 0.110 | 1.00 | 0.119 | pCi/L | 07/08/21 09:39 | 07/30/21 06:59 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 90.1 | | 40 - 110 | | | | | 07/08/21 09:39 | 07/30/21 06:59 | 1 |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium 228 | 0.666 | | 0.312 | 0.318 | 1.00 | 0.459 | pCi/L | 07/28/21 14:36 | 08/04/21 12:48 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 87.1 | | 40 - 110 | | | | | 07/28/21 14:36 | 08/04/21 12:48 | 1 |
| Y Carrier | 93.2 | | 40 - 110 | | | | | 07/28/21 14:36 | 08/04/21 12:48 | 1 |

Method: Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|--------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Radium 226 and 228 | 0.955 | | 0.330 | 0.336 | 5.00 | 0.459 | pCi/L | | 08/05/21 19:16 | 1 |

Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-210119-3

Client Sample ID: MW-313B

Lab Sample ID: 310-210119-2

Date Collected: 07/01/21 19:00

Matrix: Water

Date Received: 07/03/21 09:20

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium 226 | 0.447 | | 0.130 | 0.136 | 1.00 | 0.132 | pCi/L | 07/08/21 09:39 | 07/30/21 06:59 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 87.7 | | 40 - 110 | | | | | 07/08/21 09:39 | 07/30/21 06:59 | 1 |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium 228 | 0.557 | | 0.353 | 0.357 | 1.00 | 0.544 | pCi/L | 07/28/21 14:36 | 08/04/21 12:49 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 92.5 | | 40 - 110 | | | | | 07/28/21 14:36 | 08/04/21 12:49 | 1 |
| Y Carrier | 94.0 | | 40 - 110 | | | | | 07/28/21 14:36 | 08/04/21 12:49 | 1 |

Method: Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|--------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Radium 226 and 228 | 1.00 | | 0.376 | 0.382 | 5.00 | 0.544 | pCi/L | | 08/05/21 19:16 | 1 |

Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-210119-3

Client Sample ID: Field Blank

Lab Sample ID: 310-210119-3

Date Collected: 07/01/21 17:15

Matrix: Water

Date Received: 07/03/21 09:20

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|---------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium 226 | -0.0393 | U | 0.0610 | 0.0611 | 1.00 | 0.136 | pCi/L | 07/08/21 09:39 | 07/30/21 06:59 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 82.5 | | 40 - 110 | | | | | 07/08/21 09:39 | 07/30/21 06:59 | 1 |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium 228 | 0.0666 | U | 0.319 | 0.319 | 1.00 | 0.563 | pCi/L | 07/28/21 14:36 | 08/04/21 12:49 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 84.9 | | 40 - 110 | | | | | 07/28/21 14:36 | 08/04/21 12:49 | 1 |
| Y Carrier | 91.1 | | 40 - 110 | | | | | 07/28/21 14:36 | 08/04/21 12:49 | 1 |

Method: Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|--------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Radium 226 and 228 | 0.0666 | U | 0.325 | 0.325 | 5.00 | 0.563 | pCi/L | | 08/05/21 19:16 | 1 |

Definitions/Glossary

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-210119-3

Qualifiers

Rad

| Qualifier | Qualifier Description |
|-----------|-------------------------------------------------|
| U | Result is less than the sample detection limit. |

Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|----------------|-------------------------------------------------------------------------------------------------------------|
| α | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CFU | Colony Forming Unit |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MCL | EPA recommended "Maximum Contaminant Level" |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| MPN | Most Probable Number |
| MQL | Method Quantitation Limit |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| NEG | Negative / Absent |
| POS | Positive / Present |
| PQL | Practical Quantitation Limit |
| PRES | Presumptive |
| QC | Quality Control |
| RER | Relative Error Ratio (Radiochemistry) |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |
| TNTC | Too Numerous To Count |

QC Sample Results

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-210119-3

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-517603/23-A
Matrix: Water
Analysis Batch: 520726

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 517603

| Analyte | MB | MB | Count | Total | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|---------|-----------|-----------------|-----------------|------|----------------|----------------|----------------|----------------|---------|
| | Result | Qualifier | Uncert. (2σ+/-) | Uncert. (2σ+/-) | | | | | | |
| Radium 226 | 0.01619 | U | 0.0844 | 0.0844 | 1.00 | 0.161 | pCi/L | 07/08/21 09:39 | 07/30/21 07:07 | 1 |
| Carrier | MB | MB | Limits | | | Prepared | Analyzed | Dil Fac | | |
| | %Yield | Qualifier | | | | | | | | |
| Ba Carrier | 81.3 | | 40 - 110 | | | 07/08/21 09:39 | 07/30/21 07:07 | 1 | | |

Lab Sample ID: LCS 160-517603/1-A
Matrix: Water
Analysis Batch: 520876

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 517603

| Analyte | Spike Added | LCS | LCS | Total | RL | MDC | Unit | %Rec | %Rec. Limits |
|------------|-------------|-----------|----------|-----------------|------|----------|----------|---------|--------------|
| | | Result | Qual | Uncert. (2σ+/-) | | | | | |
| Radium 226 | 15.1 | 13.68 | | 1.44 | 1.00 | 0.172 | pCi/L | 90 | 75 - 125 |
| Carrier | LCS | LCS | Limits | | | Prepared | Analyzed | Dil Fac | |
| | %Yield | Qualifier | | | | | | | |
| Ba Carrier | 79.2 | | 40 - 110 | | | | | | |

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-520433/23-A
Matrix: Water
Analysis Batch: 521257

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 520433

| Analyte | MB | MB | Count | Total | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------|-----------------|------|----------------|----------------|----------------|----------------|---------|
| | Result | Qualifier | Uncert. (2σ+/-) | Uncert. (2σ+/-) | | | | | | |
| Radium 228 | 0.4058 | U | 0.399 | 0.401 | 1.00 | 0.648 | pCi/L | 07/28/21 14:36 | 08/04/21 12:56 | 1 |
| Carrier | MB | MB | Limits | | | Prepared | Analyzed | Dil Fac | | |
| | %Yield | Qualifier | | | | | | | | |
| Ba Carrier | 81.6 | | 40 - 110 | | | 07/28/21 14:36 | 08/04/21 12:56 | 1 | | |
| Y Carrier | 91.4 | | 40 - 110 | | | 07/28/21 14:36 | 08/04/21 12:56 | 1 | | |

Lab Sample ID: LCS 160-520433/1-A
Matrix: Water
Analysis Batch: 521258

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 520433

| Analyte | Spike Added | LCS | LCS | Total | RL | MDC | Unit | %Rec | %Rec. Limits |
|------------|-------------|-----------|----------|-----------------|------|----------|----------|---------|--------------|
| | | Result | Qual | Uncert. (2σ+/-) | | | | | |
| Radium 228 | 12.6 | 13.66 | | 1.56 | 1.00 | 0.471 | pCi/L | 108 | 75 - 125 |
| Carrier | LCS | LCS | Limits | | | Prepared | Analyzed | Dil Fac | |
| | %Yield | Qualifier | | | | | | | |
| Ba Carrier | 89.7 | | 40 - 110 | | | | | | |
| Y Carrier | 92.6 | | 40 - 110 | | | | | | |

QC Association Summary

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-210119-3

Rad

Prep Batch: 517603

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|------------|------------|
| 310-210119-1 | MW-307B | Total/NA | Water | PrecSep-21 | |
| 310-210119-2 | MW-313B | Total/NA | Water | PrecSep-21 | |
| 310-210119-3 | Field Blank | Total/NA | Water | PrecSep-21 | |
| MB 160-517603/23-A | Method Blank | Total/NA | Water | PrecSep-21 | |
| LCS 160-517603/1-A | Lab Control Sample | Total/NA | Water | PrecSep-21 | |

Prep Batch: 520433

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|-----------|------------|
| 310-210119-1 | MW-307B | Total/NA | Water | PrecSep_0 | |
| 310-210119-2 | MW-313B | Total/NA | Water | PrecSep_0 | |
| 310-210119-3 | Field Blank | Total/NA | Water | PrecSep_0 | |
| MB 160-520433/23-A | Method Blank | Total/NA | Water | PrecSep_0 | |
| LCS 160-520433/1-A | Lab Control Sample | Total/NA | Water | PrecSep_0 | |

Lab Chronicle

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-210119-3

Client Sample ID: MW-307B

Lab Sample ID: 310-210119-1

Date Collected: 07/01/21 17:15

Matrix: Water

Date Received: 07/03/21 09:20

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 517603 | 07/08/21 09:39 | MJ | TAL SL |
| Total/NA | Analysis | 903.0 | | 1 | 520725 | 07/30/21 06:59 | CMM | TAL SL |
| Total/NA | Prep | PrecSep_0 | | | 520433 | 07/28/21 14:36 | MJ | TAL SL |
| Total/NA | Analysis | 904.0 | | 1 | 521384 | 08/04/21 12:48 | ANW | TAL SL |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 521464 | 08/05/21 19:16 | EMH | TAL SL |

Client Sample ID: MW-313B

Lab Sample ID: 310-210119-2

Date Collected: 07/01/21 19:00

Matrix: Water

Date Received: 07/03/21 09:20

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 517603 | 07/08/21 09:39 | MJ | TAL SL |
| Total/NA | Analysis | 903.0 | | 1 | 520725 | 07/30/21 06:59 | CMM | TAL SL |
| Total/NA | Prep | PrecSep_0 | | | 520433 | 07/28/21 14:36 | MJ | TAL SL |
| Total/NA | Analysis | 904.0 | | 1 | 521384 | 08/04/21 12:49 | ANW | TAL SL |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 521464 | 08/05/21 19:16 | EMH | TAL SL |

Client Sample ID: Field Blank

Lab Sample ID: 310-210119-3

Date Collected: 07/01/21 17:15

Matrix: Water

Date Received: 07/03/21 09:20

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 517603 | 07/08/21 09:39 | MJ | TAL SL |
| Total/NA | Analysis | 903.0 | | 1 | 520725 | 07/30/21 06:59 | CMM | TAL SL |
| Total/NA | Prep | PrecSep_0 | | | 520433 | 07/28/21 14:36 | MJ | TAL SL |
| Total/NA | Analysis | 904.0 | | 1 | 521384 | 08/04/21 12:49 | ANW | TAL SL |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 521464 | 08/05/21 19:16 | EMH | TAL SL |

Laboratory References:

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Accreditation/Certification Summary

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-210119-3

Laboratory: Eurofins TestAmerica, St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

| Authority | Program | Identification Number | Expiration Date |
|--------------------------|-----------------------------------------|----------------------------|-----------------|
| Alaska (UST) | State | 20-001 | 05-06-22 |
| ANAB | Dept. of Defense ELAP | L2305 | 04-06-22 |
| ANAB | Dept. of Energy | L2305.01 | 04-06-22 |
| ANAB | ISO/IEC 17025 | L2305 | 04-06-22 |
| Arizona | State | AZ0813 | 12-08-21 |
| California | Los Angeles County Sanitation Districts | 10259 | 06-30-22 |
| California | State | 2886 | 06-30-21 * |
| Connecticut | State | PH-0241 | 03-31-23 |
| Florida | NELAP | E87689 | 06-30-22 |
| HI - RadChem Recognition | State | n/a | 06-30-22 |
| Illinois | NELAP | 004553 | 11-30-21 |
| Iowa | State | 373 | 12-01-22 |
| Kansas | NELAP | E-10236 | 10-31-21 |
| Kentucky (DW) | State | KY90125 | 01-01-22 |
| Kentucky (WW) | State | KY90125 (Permit KY0004049) | 12-31-21 |
| Louisiana | NELAP | 04080 | 06-30-22 |
| Louisiana (DW) | State | LA011 | 12-31-21 |
| Maryland | State | 310 | 09-30-22 |
| MI - RadChem Recognition | State | 9005 | 06-30-21 * |
| Missouri | State | 780 | 06-30-22 |
| Nevada | State | MO000542020-1 | 07-31-22 |
| New Jersey | NELAP | MO002 | 06-30-22 |
| New York | NELAP | 11616 | 04-01-22 |
| North Dakota | State | R-207 | 06-30-22 |
| NRC | NRC | 24-24817-01 | 12-31-22 |
| Oklahoma | State | 9997 | 08-31-21 |
| Oregon | NELAP | 4157 | 09-01-21 |
| Pennsylvania | NELAP | 68-00540 | 03-01-22 |
| South Carolina | State | 85002001 | 06-30-22 |
| Texas | NELAP | T104704193 | 07-31-22 |
| US Fish & Wildlife | US Federal Programs | 058448 | 07-31-22 |
| USDA | US Federal Programs | P330-17-00028 | 03-11-23 |
| Utah | NELAP | MO000542019-11 | 07-31-21 * |
| Virginia | NELAP | 10310 | 06-14-22 |
| Washington | State | C592 | 08-30-21 |
| West Virginia DEP | State | 381 | 10-31-22 |

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-210119-3

| Method | Method Description | Protocol | Laboratory |
|--------------------|--------------------------------------------------------|----------|------------|
| 903.0 | Radium-226 (GFPC) | EPA | TAL SL |
| 904.0 | Radium-228 (GFPC) | EPA | TAL SL |
| Ra226_Ra228 Pos | Combined Radium-226 and Radium-228 | TAL-STL | TAL SL |
| PrecSep_0 | Preparation, Precipitate Separation | None | TAL SL |
| PrecSep-21 | Preparation, Precipitate Separation (21-Day In-Growth) | None | TAL SL |

Protocol References:

EPA = US Environmental Protection Agency

None = None

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566





Environment Testing
TestAmerica



310-210119 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

| | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| Client Information | | | |
| Client: <u>SCS Engineers</u> | | | |
| City/State: | CITY <u>Burlington</u> | STATE <u>IA</u> | Project: <u>Burlington City station</u> |
| Receipt Information | | | |
| Date/Time Received: | DATE <u>7/08/2021</u> | TIME <u>9:20</u> | Received By: <u>AW</u> |
| Delivery Type: | <input type="checkbox"/> UPS | <input checked="" type="checkbox"/> FedEx <u>SAT</u> | <input type="checkbox"/> FedEx Ground |
| | <input type="checkbox"/> Lab Courier | <input type="checkbox"/> Lab Field Services | <input type="checkbox"/> Client Drop-off |
| | | <input type="checkbox"/> US Mail | <input type="checkbox"/> Spee-Dee |
| | | <input type="checkbox"/> Other: _____ | |
| Condition of Cooler/Containers | | | |
| Sample(s) received in Cooler? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | If yes: Cooler ID: _____ |
| Multiple Coolers? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | If yes: Cooler # _____ of _____ |
| Cooler Custody Seals Present? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | If yes: Cooler custody seals intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| Sample Custody Seals Present? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Trip Blank Present? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | If yes: Which VOA samples are in cooler? ↓ |
| Temperature Record | | | |
| Coolant: | <input checked="" type="checkbox"/> Wet ice | <input type="checkbox"/> Blue ice | <input type="checkbox"/> Dry ice |
| | | | <input type="checkbox"/> Other: _____ |
| | | | <input type="checkbox"/> NONE |
| Thermometer ID: <u>R</u> | Correction Factor (°C): <u>0</u> | | |
| • Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature | | | |
| Uncorrected Temp (°C): <u>1.1</u> | Corrected Temp (°C): <u>1.1</u> | | |
| • Sample Container Temperature | | | |
| Container(s) used: | <u>CONTAINER 1</u> | <u>CONTAINER 2</u> | |
| Uncorrected Temp (°C): | | | |
| Corrected Temp (°C): | | | |
| Exceptions Noted | | | |
| 1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No | | | |
| a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No | | | |
| 2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No | | | |
| NOTE: If yes, contact PM before proceeding. If no, proceed with login | | | |
| Additional Comments | | | |
| | | | |
| | | | |
| | | | |

Chain of Custody Record

| | | | | | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Client Information Client Contact: <u>Meghan Blodgett</u> Company: <u>SCS Engineers</u> Address: <u>2450 Hickman Road Suite #7 2830 Dairy Pr. Madison WI 53718</u> City: <u>Madison</u> State, Zip: <u>WI 53718</u> Phone: <u>608-224-2830</u> Email: <u>mblodgett@scsengineers.com</u> Project Name: <u>Burlington Gen Station 25220066</u> Site: | | Sampler: <u>Adam Watson</u> Lab PM: <u>Fredrick Sande</u> Phone: <u>608-250-9985</u> E-Mail: <u>sandra.fredrick@eurofinset.com</u> PWSID | | Carrier Tracking No(s): State of Origin: | | COC No: 310-61521-16112.1 Page: Page 1 of 1 Job #: | |
| Due Date Requested: TAT Requested (days): Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No PO #: <u>25220066</u> WO #: <u>31011020</u> Project #: <u>31011020</u> SOW#: | | Analysis Requested Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) | | Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water V - MCAA W - pH 4.5 L - EDTA Other: | | Preservation Codes: M - Hexane N - None O - AshNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4.5 Z - other (specify) | |
| Sample Identification <u>MW-307B</u> <u>MW-313B</u> <u>Field Blank</u> | | Sample Date <u>7/1/21 1715</u> <u>7/1/21 1900</u> <u>7/1/21 1715</u> | | Sample Type (C=comp, G=grab) Matrix (W=water, S=sediment, O=soil, BT=tissue, A=air) | | Total Number of Containers | |
| Sample Time Preservation Code: | | Sample Date Matrix (W=water, S=sediment, O=soil, BT=tissue, A=air) | | Special Instructions/Note: | | Special Instructions/Note: | |
| Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological | | Deliverable Requested: I, II, III, IV, Other (specify) | | Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months | | Special Instructions/QC Requirements: | |
| Reinquished by: <u>Adam Watson</u> Date/Time: <u>7/2/21 1230</u> | | Reinquished by: <u>JES Eng.</u> Date/Time: | | Reinquished by: | | Reinquished by: | |
| Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No | | Custody Seal No.: | | Cooler Temperature(s) °C and Other Remarks: | | Method of Shipment: | |



Table 1. Sampling Points and Parameters - CCR Rule Sampling Program Assessment Monitoring
Groundwater Monitoring - Burlington Generating Station / SCS Engineers Project #25221066

| Parameter | MW-301 | MW-302 | MW-302A | MW-303 | MW-304 | MW-305 | MW-306 | MW-307 | MW-307B | MW-308 | MW-310 | MW-310A | MW-311 | MW-312 | MW-313 | MW-313A | MW-313B | Field Blank | TOTAL |
|------------------------------------------------------|--------|--------|---------|--------|--------|--------|--------|--------|---------|--------|--------|---------|--------|--------|--------|---------|---------|-------------|-------|
| Appendix III Parameters | | | | | | | | | | | | | | | | | | | |
| Boron | X | | | | | | | | | | | | | | | | | | 3 |
| Calcium | | | | | | | | | | | | | | | | | | | 3 |
| Chloride | | | | | | | | | | | | | | | | | | | 3 |
| Fluoride | | | | | | | | | | | | | | | | | | | 3 |
| pH | | | | | | | | | | | | | | | | | | | 3 |
| Sulfate | | | | | | | | | | | | | | | | | | | 3 |
| TDS | | | | | | | | | | | | | | | | | | | 3 |
| Appendix IV Parameters | | | | | | | | | | | | | | | | | | | |
| Antimony | | | | | | | | | | | | | | | | | | | 3 |
| Arsenic | | | | | | | | | | | | | | | | | | | 3 |
| Barium | | | | | | | | | | | | | | | | | | | 3 |
| Beryllium | | | | | | | | | | | | | | | | | | | 3 |
| Cadmium | | | | | | | | | | | | | | | | | | | 3 |
| Chromium | | | | | | | | | | | | | | | | | | | 3 |
| Cobalt | | | | | | | | | | | | | | | | | | | 3 |
| Fluoride | | | | | | | | | | | | | | | | | | | 3 |
| Lead | | | | | | | | | | | | | | | | | | | 3 |
| Lithium | | | | | | | | | | | | | | | | | | | 3 |
| Mercury | | | | | | | | | | | | | | | | | | | 3 |
| Molybdenum | | | | | | | | | | | | | | | | | | | 3 |
| Selenium | | | | | | | | | | | | | | | | | | | 3 |
| Thallium | | | | | | | | | | | | | | | | | | | 3 |
| Radium | | | | | | | | | | | | | | | | | | | 3 |
| Field Parameters | | | | | | | | | | | | | | | | | | | |
| Ferrous Iron (ChemMetrics) | | | | | | | | | | | | | | | | | | | 2 |
| Sulfide (ChemMetrics) | | | | | | | | | | | | | | | | | | | 2 |
| Groundwater Elevation | | | | | | | | | | | | | | | | | | | 2 |
| Well Depth | | | | | | | | | | | | | | | | | | | 2 |
| pH (field) | | | | | | | | | | | | | | | | | | | 2 |
| Specific Conductance | | | | | | | | | | | | | | | | | | | 2 |
| Dissolved Oxygen | | | | | | | | | | | | | | | | | | | 2 |
| ORP | | | | | | | | | | | | | | | | | | | 2 |
| Temperature | | | | | | | | | | | | | | | | | | | 2 |
| Turbidity | | | | | | | | | | | | | | | | | | | 2 |
| Color | | | | | | | | | | | | | | | | | | | 2 |
| Odor | | | | | | | | | | | | | | | | | | | 2 |
| Additional Lab Parameters - REPORT SEPARATELY | | | | | | | | | | | | | | | | | | | |
| Bicarbonate (total) | | | | | | | | | | | | | | | | | | | 3 |
| Carbonate (total) | | | | | | | | | | | | | | | | | | | 3 |
| Iron (total) | | | | | | | | | | | | | | | | | | | 3 |
| Magnesium (total) | | | | | | | | | | | | | | | | | | | 3 |
| Manganese (total) | | | | | | | | | | | | | | | | | | | 3 |
| Potassium (total) | | | | | | | | | | | | | | | | | | | 3 |
| Sodium (total) | | | | | | | | | | | | | | | | | | | 3 |
| Iron (filtered) | | | | | | | | | | | | | | | | | | | 2 |
| Lithium (filtered) | | | | | | | | | | | | | | | | | | | 2 |
| Manganese (filtered) | | | | | | | | | | | | | | | | | | | 2 |
| Molybdenum (filtered) | | | | | | | | | | | | | | | | | | | 2 |

Notes:
i:\25221066.00\Data and Calculations\Field Work Requests\Table_1_BGS_CCR_Rule_Sampling_2106.xls\Sheet1



Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-210119-3

Login Number: 210119

List Source: Eurofins TestAmerica, Cedar Falls

List Number: 1

Creator: Watkins, Allison R

| Question | Answer | Comment |
|-----------------------------------------------------------------------------------------------------|--------|---------|
| Radioactivity wasn't checked or is \leq background as measured by a survey meter. | N/A | |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | N/A | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-210119-3

Login Number: 210119

List Number: 2

Creator: Worthington, Sierra M

List Source: Eurofins TestAmerica, St. Louis

List Creation: 07/07/21 12:11 PM

| Question | Answer | Comment |
|----------------------------------------------------------------------------------|--------|---------|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | True | |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |



Tracer/Carrier Summary

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-210119-3

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

Percent Yield (Acceptance Limits)

| Lab Sample ID | Client Sample ID | Ba (40-110) | | | | | | | |
|--------------------|--------------------|----------------|--|--|--|--|--|--|--|
| 310-210119-1 | MW-307B | 90.1 | | | | | | | |
| 310-210119-2 | MW-313B | 87.7 | | | | | | | |
| 310-210119-3 | Field Blank | 82.5 | | | | | | | |
| LCS 160-517603/1-A | Lab Control Sample | 79.2 | | | | | | | |
| MB 160-517603/23-A | Method Blank | 81.3 | | | | | | | |

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

Percent Yield (Acceptance Limits)

| Lab Sample ID | Client Sample ID | Ba (40-110) | Y (40-110) | | | | | | |
|--------------------|--------------------|----------------|---------------|--|--|--|--|--|--|
| 310-210119-1 | MW-307B | 87.1 | 93.2 | | | | | | |
| 310-210119-2 | MW-313B | 92.5 | 94.0 | | | | | | |
| 310-210119-3 | Field Blank | 84.9 | 91.1 | | | | | | |
| LCS 160-520433/1-A | Lab Control Sample | 89.7 | 92.6 | | | | | | |
| MB 160-520433/23-A | Method Blank | 81.6 | 91.4 | | | | | | |

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

ANALYTICAL REPORT

Eurofins TestAmerica, Cedar Falls
3019 Venture Way
Cedar Falls, IA 50613
Tel: (319)277-2401

Laboratory Job ID: 310-210119-2
Client Project/Site: Burlington Gen Station 25221066

For:
SCS Engineers
2830 Dairy Drive
Madison, Wisconsin 53718

Attn: Meghan Blodgett



*Authorized for release by:
7/16/2021 11:12:56 AM*

Sandie Fredrick, Project Manager II
(920)261-1660
sandra.fredrick@eurofinset.com

LINKS

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results through
Total Access

Have a Question?



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www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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| Chain of Custody | 16 |
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Case Narrative

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-210119-2

Job ID: 310-210119-2

Laboratory: Eurofins TestAmerica, Cedar Falls

Narrative

Job Narrative 310-210119-2

Comments

No additional comments.

Receipt

The samples were received on 7/3/2021 9:20 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.1° C.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Sample Summary

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-210119-2

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Asset ID |
|---------------|------------------|--------|----------------|----------------|----------|
| 310-210119-1 | MW-307B | Water | 07/01/21 17:15 | 07/03/21 09:20 | |
| 310-210119-2 | MW-313B | Water | 07/01/21 19:00 | 07/03/21 09:20 | |
| 310-210119-3 | Field Blank | Water | 07/01/21 17:15 | 07/03/21 09:20 | |

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Detection Summary

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-210119-2

Client Sample ID: MW-307B

Lab Sample ID: 310-210119-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------------------------------|--------|-----------|------|-----|------|---------|---|----------|-----------|
| Iron | 2100 | | 100 | 36 | ug/L | 1 | | 6020A | Total/NA |
| Magnesium | 15000 | | 500 | 100 | ug/L | 1 | | 6020A | Total/NA |
| Manganese | 850 | | 10 | 4.4 | ug/L | 1 | | 6020A | Total/NA |
| Potassium | 3000 | | 500 | 150 | ug/L | 1 | | 6020A | Total/NA |
| Sodium | 23000 | | 1000 | 610 | ug/L | 1 | | 6020A | Total/NA |
| Iron | 1700 | | 100 | 36 | ug/L | 1 | | 6020A | Dissolved |
| Lithium | 9.5 | J | 10 | 2.5 | ug/L | 1 | | 6020A | Dissolved |
| Manganese | 800 | | 10 | 4.4 | ug/L | 1 | | 6020A | Dissolved |
| Molybdenum | 40 | | 2.0 | 1.3 | ug/L | 1 | | 6020A | Dissolved |
| Bicarbonate Alkalinity as CaCO3 | 150 | | 10 | 4.6 | mg/L | 1 | | SM 2320B | Total/NA |
| Total Alkalinity as CaCO3 | 150 | | 10 | 4.6 | mg/L | 1 | | SM 2320B | Total/NA |

Client Sample ID: MW-313B

Lab Sample ID: 310-210119-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------------------------------|--------|-----------|------|-----|------|---------|---|----------|-----------|
| Iron | 990 | | 100 | 36 | ug/L | 1 | | 6020A | Total/NA |
| Magnesium | 9500 | | 500 | 100 | ug/L | 1 | | 6020A | Total/NA |
| Manganese | 590 | | 10 | 4.4 | ug/L | 1 | | 6020A | Total/NA |
| Potassium | 9500 | | 500 | 150 | ug/L | 1 | | 6020A | Total/NA |
| Sodium | 130000 | | 1000 | 610 | ug/L | 1 | | 6020A | Total/NA |
| Iron | 880 | | 100 | 36 | ug/L | 1 | | 6020A | Dissolved |
| Lithium | 18 | | 10 | 2.5 | ug/L | 1 | | 6020A | Dissolved |
| Manganese | 570 | | 10 | 4.4 | ug/L | 1 | | 6020A | Dissolved |
| Molybdenum | 100 | | 2.0 | 1.3 | ug/L | 1 | | 6020A | Dissolved |
| Bicarbonate Alkalinity as CaCO3 | 100 | | 10 | 4.6 | mg/L | 1 | | SM 2320B | Total/NA |
| Total Alkalinity as CaCO3 | 100 | | 10 | 4.6 | mg/L | 1 | | SM 2320B | Total/NA |

Client Sample ID: Field Blank

Lab Sample ID: 310-210119-3

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Cedar Falls

Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-210119-2

Client Sample ID: MW-307B

Lab Sample ID: 310-210119-1

Date Collected: 07/01/21 17:15

Matrix: Water

Date Received: 07/03/21 09:20

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-----|------|---|----------------|----------------|---------|
| Iron | 2100 | | 100 | 36 | ug/L | | 07/09/21 09:00 | 07/12/21 14:44 | 1 |
| Magnesium | 15000 | | 500 | 100 | ug/L | | 07/09/21 09:00 | 07/12/21 14:44 | 1 |
| Manganese | 850 | | 10 | 4.4 | ug/L | | 07/09/21 09:00 | 07/12/21 14:44 | 1 |
| Potassium | 3000 | | 500 | 150 | ug/L | | 07/09/21 09:00 | 07/12/21 14:44 | 1 |
| Sodium | 23000 | | 1000 | 610 | ug/L | | 07/09/21 09:00 | 07/12/21 14:44 | 1 |

Method: 6020A - Metals (ICP/MS) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Iron | 1700 | | 100 | 36 | ug/L | | 07/12/21 09:00 | 07/15/21 18:25 | 1 |
| Lithium | 9.5 | J | 10 | 2.5 | ug/L | | 07/12/21 09:00 | 07/15/21 18:25 | 1 |
| Manganese | 800 | | 10 | 4.4 | ug/L | | 07/12/21 09:00 | 07/15/21 18:25 | 1 |
| Molybdenum | 40 | | 2.0 | 1.3 | ug/L | | 07/12/21 09:00 | 07/15/21 18:25 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Bicarbonate Alkalinity as CaCO3 | 150 | | 10 | 4.6 | mg/L | | | 07/06/21 10:29 | 1 |
| Carbonate Alkalinity as CaCO3 | <4.6 | | 10 | 4.6 | mg/L | | | 07/06/21 10:29 | 1 |
| Total Alkalinity as CaCO3 | 150 | | 10 | 4.6 | mg/L | | | 07/06/21 10:29 | 1 |

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Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-210119-2

Client Sample ID: MW-313B

Lab Sample ID: 310-210119-2

Date Collected: 07/01/21 19:00

Matrix: Water

Date Received: 07/03/21 09:20

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-----|------|---|----------------|----------------|---------|
| Iron | 990 | | 100 | 36 | ug/L | | 07/09/21 09:00 | 07/12/21 14:57 | 1 |
| Magnesium | 9500 | | 500 | 100 | ug/L | | 07/09/21 09:00 | 07/12/21 14:57 | 1 |
| Manganese | 590 | | 10 | 4.4 | ug/L | | 07/09/21 09:00 | 07/12/21 14:57 | 1 |
| Potassium | 9500 | | 500 | 150 | ug/L | | 07/09/21 09:00 | 07/12/21 14:57 | 1 |
| Sodium | 130000 | | 1000 | 610 | ug/L | | 07/09/21 09:00 | 07/12/21 14:57 | 1 |

Method: 6020A - Metals (ICP/MS) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Iron | 880 | | 100 | 36 | ug/L | | 07/12/21 09:00 | 07/15/21 18:28 | 1 |
| Lithium | 18 | | 10 | 2.5 | ug/L | | 07/12/21 09:00 | 07/15/21 18:28 | 1 |
| Manganese | 570 | | 10 | 4.4 | ug/L | | 07/12/21 09:00 | 07/15/21 18:28 | 1 |
| Molybdenum | 100 | | 2.0 | 1.3 | ug/L | | 07/12/21 09:00 | 07/15/21 18:28 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Bicarbonate Alkalinity as CaCO3 | 100 | | 10 | 4.6 | mg/L | | | 07/06/21 10:29 | 1 |
| Carbonate Alkalinity as CaCO3 | <4.6 | | 10 | 4.6 | mg/L | | | 07/06/21 10:29 | 1 |
| Total Alkalinity as CaCO3 | 100 | | 10 | 4.6 | mg/L | | | 07/06/21 10:29 | 1 |

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Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-210119-2

Client Sample ID: Field Blank

Lab Sample ID: 310-210119-3

Date Collected: 07/01/21 17:15

Matrix: Water

Date Received: 07/03/21 09:20

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-----|------|---|----------------|----------------|---------|
| Iron | <36 | | 100 | 36 | ug/L | | 07/09/21 09:00 | 07/12/21 15:01 | 1 |
| Magnesium | <100 | | 500 | 100 | ug/L | | 07/09/21 09:00 | 07/12/21 15:01 | 1 |
| Manganese | <4.4 | | 10 | 4.4 | ug/L | | 07/09/21 09:00 | 07/12/21 15:01 | 1 |
| Potassium | <150 | | 500 | 150 | ug/L | | 07/09/21 09:00 | 07/12/21 15:01 | 1 |
| Sodium | <610 | | 1000 | 610 | ug/L | | 07/09/21 09:00 | 07/12/21 15:01 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Bicarbonate Alkalinity as CaCO3 | <2.3 | | 5.0 | 2.3 | mg/L | | | 07/06/21 12:25 | 1 |
| Carbonate Alkalinity as CaCO3 | <2.3 | | 5.0 | 2.3 | mg/L | | | 07/06/21 12:25 | 1 |
| Total Alkalinity as CaCO3 | <2.3 | | 5.0 | 2.3 | mg/L | | | 07/06/21 12:25 | 1 |

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Definitions/Glossary

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-210119-2

Qualifiers

Metals

| Qualifier | Qualifier Description |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4 | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|----------------|-------------------------------------------------------------------------------------------------------------|
| ▫ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CFU | Colony Forming Unit |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MCL | EPA recommended "Maximum Contaminant Level" |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| MPN | Most Probable Number |
| MQL | Method Quantitation Limit |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| NEG | Negative / Absent |
| POS | Positive / Present |
| PQL | Practical Quantitation Limit |
| PRES | Presumptive |
| QC | Quality Control |
| RER | Relative Error Ratio (Radiochemistry) |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |
| TNTC | Too Numerous To Count |

QC Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-210119-2

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 310-321882/1-A
Matrix: Water
Analysis Batch: 322130

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 321882

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|-----------|--------------|------|-----|------|---|----------------|----------------|---------|
| Iron | <36 | | 100 | 36 | ug/L | | 07/09/21 09:00 | 07/12/21 14:35 | 1 |
| Magnesium | <100 | | 500 | 100 | ug/L | | 07/09/21 09:00 | 07/12/21 14:35 | 1 |
| Manganese | <4.4 | | 10 | 4.4 | ug/L | | 07/09/21 09:00 | 07/12/21 14:35 | 1 |
| Potassium | <150 | | 500 | 150 | ug/L | | 07/09/21 09:00 | 07/12/21 14:35 | 1 |
| Sodium | <610 | | 1000 | 610 | ug/L | | 07/09/21 09:00 | 07/12/21 14:35 | 1 |

Lab Sample ID: LCS 310-321882/2-A
Matrix: Water
Analysis Batch: 322130

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 321882

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------|-------------|------------|---------------|------|---|------|--------------|
| Iron | 200 | 224 | | ug/L | | 112 | 80 - 120 |
| Magnesium | 2000 | 2140 | | ug/L | | 107 | 80 - 120 |
| Manganese | 100 | 95.2 | | ug/L | | 95 | 80 - 120 |
| Potassium | 2000 | 2110 | | ug/L | | 106 | 80 - 120 |
| Sodium | 2000 | 2120 | | ug/L | | 106 | 80 - 120 |

Lab Sample ID: 310-210119-1 MS
Matrix: Water
Analysis Batch: 322130

Client Sample ID: MW-307B
Prep Type: Total/NA
Prep Batch: 321882

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Iron | 2100 | | 200 | 2380 | 4 | ug/L | | 131 | 75 - 125 |
| Magnesium | 15000 | | 2000 | 17700 | 4 | ug/L | | 129 | 75 - 125 |
| Manganese | 850 | | 100 | 970 | 4 | ug/L | | 123 | 75 - 125 |
| Potassium | 3000 | | 2000 | 5100 | | ug/L | | 106 | 75 - 125 |
| Sodium | 23000 | | 2000 | 25800 | 4 | ug/L | | 141 | 75 - 125 |

Lab Sample ID: 310-210119-1 MSD
Matrix: Water
Analysis Batch: 322130

Client Sample ID: MW-307B
Prep Type: Total/NA
Prep Batch: 321882

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | Limit |
|-----------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-------|
| Iron | 2100 | | 200 | 2310 | 4 | ug/L | | 94 | 75 - 125 | 3 | 20 |
| Magnesium | 15000 | | 2000 | 17300 | 4 | ug/L | | 112 | 75 - 125 | 2 | 20 |
| Manganese | 850 | | 100 | 950 | 4 | ug/L | | 103 | 75 - 125 | 2 | 20 |
| Potassium | 3000 | | 2000 | 5020 | | ug/L | | 102 | 75 - 125 | 2 | 20 |
| Sodium | 23000 | | 2000 | 25300 | 4 | ug/L | | 113 | 75 - 125 | 2 | 20 |

Lab Sample ID: MB 310-322022/1-A
Matrix: Water
Analysis Batch: 322608

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 322022

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|-----------|--------------|-----|-----|------|---|----------------|----------------|---------|
| Iron | <36 | | 100 | 36 | ug/L | | 07/12/21 09:00 | 07/15/21 17:10 | 1 |
| Lithium | <2.5 | | 10 | 2.5 | ug/L | | 07/12/21 09:00 | 07/15/21 17:10 | 1 |
| Manganese | <4.4 | | 10 | 4.4 | ug/L | | 07/12/21 09:00 | 07/15/21 17:10 | 1 |
| Molybdenum | <1.3 | | 2.0 | 1.3 | ug/L | | 07/12/21 09:00 | 07/15/21 17:10 | 1 |

Eurofins TestAmerica, Cedar Falls

QC Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-210119-2

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 310-322022/2-A
Matrix: Water
Analysis Batch: 322608

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322022

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|------------|-------------|------------|---------------|------|---|------|--------------|
| Iron | 200 | 225 | | ug/L | | 113 | 80 - 120 |
| Lithium | 200 | 203 | | ug/L | | 102 | 80 - 120 |
| Manganese | 100 | 99.3 | | ug/L | | 99 | 80 - 120 |
| Molybdenum | 200 | 205 | | ug/L | | 102 | 80 - 120 |

Method: 2320B - Alkalinity (Low Level)

Lab Sample ID: MB 310-321507/1
Matrix: Water
Analysis Batch: 321507

Client Sample ID: Method Blank
Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------|-----------|--------------|-----|-----|------|---|----------|----------------|---------|
| Bicarbonate Alkalinity as CaCO3 | <2.3 | | 5.0 | 2.3 | mg/L | | | 07/06/21 12:25 | 1 |
| Carbonate Alkalinity as CaCO3 | <2.3 | | 5.0 | 2.3 | mg/L | | | 07/06/21 12:25 | 1 |
| Total Alkalinity as CaCO3 | <2.3 | | 5.0 | 2.3 | mg/L | | | 07/06/21 12:25 | 1 |

Lab Sample ID: LCS 310-321507/2
Matrix: Water
Analysis Batch: 321507

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------------------------|-------------|------------|---------------|------|---|------|--------------|
| Total Alkalinity as CaCO3 | 1000 | 1020 | | mg/L | | 102 | 90 - 110 |

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 310-321477/1
Matrix: Water
Analysis Batch: 321477

Client Sample ID: Method Blank
Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------|-----------|--------------|-----|-----|------|---|----------|----------------|---------|
| Bicarbonate Alkalinity as CaCO3 | <2.3 | | 5.0 | 2.3 | mg/L | | | 07/06/21 10:29 | 1 |
| Carbonate Alkalinity as CaCO3 | <2.3 | | 5.0 | 2.3 | mg/L | | | 07/06/21 10:29 | 1 |
| Total Alkalinity as CaCO3 | <2.3 | | 5.0 | 2.3 | mg/L | | | 07/06/21 10:29 | 1 |

Lab Sample ID: LCS 310-321477/2
Matrix: Water
Analysis Batch: 321477

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------------------------|-------------|------------|---------------|------|---|------|--------------|
| Total Alkalinity as CaCO3 | 1000 | 1010 | | mg/L | | 101 | 90 - 110 |

QC Association Summary

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-210119-2

Metals

Prep Batch: 321882

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 310-210119-1 | MW-307B | Total/NA | Water | 3010A | |
| 310-210119-2 | MW-313B | Total/NA | Water | 3010A | |
| 310-210119-3 | Field Blank | Total/NA | Water | 3010A | |
| MB 310-321882/1-A | Method Blank | Total/NA | Water | 3010A | |
| LCS 310-321882/2-A | Lab Control Sample | Total/NA | Water | 3010A | |
| 310-210119-1 MS | MW-307B | Total/NA | Water | 3010A | |
| 310-210119-1 MSD | MW-307B | Total/NA | Water | 3010A | |

Prep Batch: 322022

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 310-210119-1 | MW-307B | Dissolved | Water | 3010A | |
| 310-210119-2 | MW-313B | Dissolved | Water | 3010A | |
| MB 310-322022/1-A | Method Blank | Total/NA | Water | 3010A | |
| LCS 310-322022/2-A | Lab Control Sample | Total/NA | Water | 3010A | |

Analysis Batch: 322130

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 310-210119-1 | MW-307B | Total/NA | Water | 6020A | 321882 |
| 310-210119-2 | MW-313B | Total/NA | Water | 6020A | 321882 |
| 310-210119-3 | Field Blank | Total/NA | Water | 6020A | 321882 |
| MB 310-321882/1-A | Method Blank | Total/NA | Water | 6020A | 321882 |
| LCS 310-321882/2-A | Lab Control Sample | Total/NA | Water | 6020A | 321882 |
| 310-210119-1 MS | MW-307B | Total/NA | Water | 6020A | 321882 |
| 310-210119-1 MSD | MW-307B | Total/NA | Water | 6020A | 321882 |

Analysis Batch: 322608

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 310-210119-1 | MW-307B | Dissolved | Water | 6020A | 322022 |
| 310-210119-2 | MW-313B | Dissolved | Water | 6020A | 322022 |
| MB 310-322022/1-A | Method Blank | Total/NA | Water | 6020A | 322022 |
| LCS 310-322022/2-A | Lab Control Sample | Total/NA | Water | 6020A | 322022 |

General Chemistry

Analysis Batch: 321477

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|----------|------------|
| 310-210119-1 | MW-307B | Total/NA | Water | SM 2320B | |
| 310-210119-2 | MW-313B | Total/NA | Water | SM 2320B | |
| MB 310-321477/1 | Method Blank | Total/NA | Water | SM 2320B | |
| LCS 310-321477/2 | Lab Control Sample | Total/NA | Water | SM 2320B | |

Analysis Batch: 321507

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 310-210119-3 | Field Blank | Total/NA | Water | 2320B | |
| MB 310-321507/1 | Method Blank | Total/NA | Water | 2320B | |
| LCS 310-321507/2 | Lab Control Sample | Total/NA | Water | 2320B | |

Lab Chronicle

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-210119-2

Client Sample ID: MW-307B

Lab Sample ID: 310-210119-1

Date Collected: 07/01/21 17:15

Matrix: Water

Date Received: 07/03/21 09:20

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Dissolved | Prep | 3010A | | | 322022 | 07/12/21 09:00 | ACM2 | TAL CF |
| Dissolved | Analysis | 6020A | | 1 | 322608 | 07/15/21 18:25 | SAD | TAL CF |
| Total/NA | Prep | 3010A | | | 321882 | 07/09/21 09:00 | ACM2 | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 322130 | 07/12/21 14:44 | SAD | TAL CF |
| Total/NA | Analysis | SM 2320B | | 1 | 321477 | 07/06/21 10:29 | DFS | TAL CF |

Client Sample ID: MW-313B

Lab Sample ID: 310-210119-2

Date Collected: 07/01/21 19:00

Matrix: Water

Date Received: 07/03/21 09:20

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Dissolved | Prep | 3010A | | | 322022 | 07/12/21 09:00 | ACM2 | TAL CF |
| Dissolved | Analysis | 6020A | | 1 | 322608 | 07/15/21 18:28 | SAD | TAL CF |
| Total/NA | Prep | 3010A | | | 321882 | 07/09/21 09:00 | ACM2 | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 322130 | 07/12/21 14:57 | SAD | TAL CF |
| Total/NA | Analysis | SM 2320B | | 1 | 321477 | 07/06/21 10:29 | DFS | TAL CF |

Client Sample ID: Field Blank

Lab Sample ID: 310-210119-3

Date Collected: 07/01/21 17:15

Matrix: Water

Date Received: 07/03/21 09:20

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | 3010A | | | 321882 | 07/09/21 09:00 | ACM2 | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 322130 | 07/12/21 15:01 | SAD | TAL CF |
| Total/NA | Analysis | 2320B | | 1 | 321507 | 07/06/21 12:25 | DFS | TAL CF |

Laboratory References:

TAL CF = Eurofins TestAmerica, Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

Accreditation/Certification Summary

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-210119-2

Laboratory: Eurofins TestAmerica, Cedar Falls

The accreditations/certifications listed below are applicable to this report.

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| Iowa | State | 007 | 12-01-21 |

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-210119-2

| Method | Method Description | Protocol | Laboratory |
|----------|---------------------------|----------|------------|
| 6020A | Metals (ICP/MS) | SW846 | TAL CF |
| 2320B | Alkalinity (Low Level) | SM | TAL CF |
| SM 2320B | Alkalinity | SM | TAL CF |
| 3010A | Preparation, Total Metals | SW846 | TAL CF |

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CF = Eurofins TestAmerica, Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

- 1
- 2
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- 12
- 13
- 14



Environment Testing
TestAmerica



310-210119 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

| Client Information | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-----------------------------------------|
| Client: <u>SCS Engineers</u> | | | |
| City/State: | CITY <u>Burlington</u> | STATE <u>IA</u> | Project: <u>Burlington City station</u> |
| Receipt Information | | | |
| Date/Time Received: | DATE <u>7/08/2021</u> | TIME <u>9:20</u> | Received By: <u>AW</u> |
| Delivery Type: | <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <u>SAT</u> <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____ | | |
| Condition of Cooler/Containers | | | |
| Sample(s) received in Cooler? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If yes: Cooler ID: _____ | |
| Multiple Coolers? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If yes: Cooler # _____ of _____ | |
| Cooler Custody Seals Present? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If yes: Cooler custody seals intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| Sample Custody Seals Present? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No | |
| Trip Blank Present? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If yes: Which VOA samples are in cooler? ↓ | |
| | | | |
| Temperature Record | | | |
| Coolant: | <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE | | |
| Thermometer ID: <u>R</u> | Correction Factor (°C): <u>0</u> | | |
| • Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature | | | |
| Uncorrected Temp (°C): <u>1.1</u> | Corrected Temp (°C): <u>1.1</u> | | |
| • Sample Container Temperature | | | |
| Container(s) used: | <u>CONTAINER 1</u> | <u>CONTAINER 2</u> | |
| Uncorrected Temp (°C): | | | |
| Corrected Temp (°C): | | | |
| Exceptions Noted | | | |
| 1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No | | | |
| a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No | | | |
| 2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No | | | |
| NOTE: If yes, contact PM before proceeding. If no, proceed with login | | | |
| Additional Comments | | | |
| | | | |
| | | | |
| | | | |

Chain of Custody Record

Client Information
 Client Contact: Meghan Blodgett
 Address: 2450 Hickman Road Suite #7 2830 Dairy Pr. Madison WI 53718
 Phone: 608-224-2830
 Email: Mblodgett@sscengineers.com
 Project Name: Burlington Gen Station 25220066
 Site: 31011020

Sampler Adam Watson
 Lab PM: Fredrick Sande
 Phone: 608-250-9985
 E-Mail: sandra.fredrick@eurofins.com

Analysis Requested
 Due Date Requested: _____
 TAT Requested (days): _____
 Compliance Project: Yes No
 PO #: 25220066
 WO #: _____
 Project #: 31011020
 SOW#: _____

| Sample Identification | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (W=water, S=solid, O=on-site, BT=tissue, A=air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 5020A - Metals - Hg | 2540C - Catcd, 9356A_ORGFM, 2BD, SM4500_H+ | 903 0 - Radium 226 | 904 0 - Radium 228 |
|-----------------------|-------------|-------------|------------------------------|--------------------------------------------------------|-----------------------------------|----------------------------|---------------------|--------------------------------------------|--------------------|--------------------|
| MW-307B | 7/1/21 | 1715 | | Water | X | X | X | X | X | X |
| MW-313B | 7/1/21 | 1900 | | Water | X | X | X | X | X | X |
| Field Blank | 7/1/21 | 1715 | | Water | X | X | X | X | X | X |

Preservation Codes:
 A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - MCAA, L - EDTA, W - pH 4-5, Z - other (specify)
 Other: _____

Carrier Tracking No(s): _____
State of Origin: _____

COC No: 310-61521-16112.1
Page: Page 1 of 1
Job #: _____

Special Instructions/Note: _____

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/QC Requirements: _____

Time: _____

Received by: Adam Watson Date: 7/2/21 1230
 Received by: _____ Date: _____
 Received by: _____ Date: _____

Reinquinshed by: _____ Date: _____
 Custody Seals Intact: Yes No
 Custody Seal No.: _____



Table 1. Sampling Points and Parameters - CCR Rule Sampling Program Assessment Monitoring
 Groundwater Monitoring - Burlington Generating Station / SCS Engineers Project #25221066

| Parameter | MW-301 | MW-302 | MW-302A | MW-303 | MW-304 | MW-305 | MW-306 | MW-307 | MW-307B | MW-308 | MW-310 | MW-310A | MW-311 | MW-312 | MW-313 | MW-313A | MW-315B | Field Blank | TOTAL |
|------------------------------------------------------|--------|--------|---------|--------|--------|--------|--------|--------|---------|--------|--------|---------|--------|--------|--------|---------|---------|-------------|-------|
| Appendix III Parameters | | | | | | | | | | | | | | | | | | | |
| Boron | | | | | | | | | | | | | | | | | | | 3 |
| Calcium | | | | | | | | | | | | | | | | | | | 3 |
| Chloride | | | | | | | | | | | | | | | | | | | 3 |
| Fluoride | | | | | | | | | | | | | | | | | | | 3 |
| pH | | | | | | | | | | | | | | | | | | | 3 |
| Sulfate | | | | | | | | | | | | | | | | | | | 3 |
| TDS | | | | | | | | | | | | | | | | | | | 3 |
| Appendix IV Parameters | | | | | | | | | | | | | | | | | | | |
| Antimony | | | | | | | | | | | | | | | | | | | 3 |
| Arsenic | | | | | | | | | | | | | | | | | | | 3 |
| Barium | | | | | | | | | | | | | | | | | | | 3 |
| Beryllium | | | | | | | | | | | | | | | | | | | 3 |
| Cadmium | | | | | | | | | | | | | | | | | | | 3 |
| Chromium | | | | | | | | | | | | | | | | | | | 3 |
| Cobalt | | | | | | | | | | | | | | | | | | | 3 |
| Fluoride | | | | | | | | | | | | | | | | | | | 3 |
| Lead | | | | | | | | | | | | | | | | | | | 3 |
| Lithium | | | | | | | | | | | | | | | | | | | 3 |
| Mercury | | | | | | | | | | | | | | | | | | | 3 |
| Molybdenum | | | | | | | | | | | | | | | | | | | 3 |
| Selenium | | | | | | | | | | | | | | | | | | | 3 |
| Thallium | | | | | | | | | | | | | | | | | | | 3 |
| Radium | | | | | | | | | | | | | | | | | | | 3 |
| Field Parameters | | | | | | | | | | | | | | | | | | | |
| Ferrous Iron (ChemMetrics) | | | | | | | | | | | | | | | | | | | 2 |
| Sulfide (ChemMetrics) | | | | | | | | | | | | | | | | | | | 2 |
| Groundwater Elevation | | | | | | | | | | | | | | | | | | | 2 |
| Well Depth | | | | | | | | | | | | | | | | | | | 2 |
| pH (field) | | | | | | | | | | | | | | | | | | | 2 |
| Specific Conductance | | | | | | | | | | | | | | | | | | | 2 |
| Dissolved Oxygen | | | | | | | | | | | | | | | | | | | 2 |
| ORP | | | | | | | | | | | | | | | | | | | 2 |
| Temperature | | | | | | | | | | | | | | | | | | | 2 |
| Turbidity | | | | | | | | | | | | | | | | | | | 2 |
| Color | | | | | | | | | | | | | | | | | | | 2 |
| Odor | | | | | | | | | | | | | | | | | | | 2 |
| Additional Lab Parameters - REPORT SEPARATELY | | | | | | | | | | | | | | | | | | | |
| Bicarbonate (total) | | | | | | | | | | | | | | | | | | | 3 |
| Carbonate (total) | | | | | | | | | | | | | | | | | | | 3 |
| Iron (total) | | | | | | | | | | | | | | | | | | | 3 |
| Magnesium (total) | | | | | | | | | | | | | | | | | | | 3 |
| Manganese (total) | | | | | | | | | | | | | | | | | | | 3 |
| Potassium (total) | | | | | | | | | | | | | | | | | | | 3 |
| Sodium (total) | | | | | | | | | | | | | | | | | | | 3 |
| Iron (filtered) | | | | | | | | | | | | | | | | | | | 2 |
| Lithium (filtered) | | | | | | | | | | | | | | | | | | | 2 |
| Manganese (filtered) | | | | | | | | | | | | | | | | | | | 2 |
| Molybdenum (filtered) | | | | | | | | | | | | | | | | | | | 2 |

Notes:
 I:\25221066.00\Data and Calculations\Field Work Requests\Table_1_BGS_CCR_Rule_Sampling_2106.xls\Sheet1



Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-210119-2

Login Number: 210119

List Source: Eurofins TestAmerica, Cedar Falls

List Number: 1

Creator: Watkins, Allison R

| Question | Answer | Comment |
|----------------------------------------------------------------------------------|--------|---------|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | N/A | |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | N/A | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |



C4 October 2021 Assessment Monitoring

ANALYTICAL REPORT

Eurofins TestAmerica, Cedar Falls
3019 Venture Way
Cedar Falls, IA 50613
Tel: (319)277-2401

Laboratory Job ID: 310-217572-1

Client Project/Site: Burlington Gen Station 25221066
Revision: 1

For:

SCS Engineers
2830 Dairy Drive
Madison, Wisconsin 53718

Attn: Meghan Blodgett



Authorized for release by:
12/14/2021 10:36:05 AM

Sandie Fredrick, Project Manager II
(920)261-1660
sandra.fredrick@eurofinset.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:

www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Case Narrative

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-217572-1

Job ID: 310-217572-1

Laboratory: Eurofins TestAmerica, Cedar Falls

Narrative

Job Narrative 310-217572-1

Comments

No additional comments.

Revision

The report being provided is a revision of the original report sent on 10/29/2021. The report (revision 1) is being revised due to: Revised to remove erroneous F1 Flag on Fluoride..

Receipt

The samples were received on 10/15/2021 4:45 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 1.3° C, 1.6° C, 1.8° C and 1.9° C.

HPLC/IC

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.



Sample Summary

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-217572-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 310-217572-1 | MW-301 | Water | 10/13/21 09:05 | 10/15/21 16:45 |
| 310-217572-2 | MW-302 | Water | 10/12/21 14:40 | 10/15/21 16:45 |
| 310-217572-3 | MW-302A | Water | 10/12/21 15:40 | 10/15/21 16:45 |
| 310-217572-4 | MW-303 | Water | 10/13/21 10:05 | 10/15/21 16:45 |
| 310-217572-5 | MW-304 | Water | 10/13/21 11:50 | 10/15/21 16:45 |
| 310-217572-6 | MW-305 | Water | 10/14/21 12:30 | 10/15/21 16:45 |
| 310-217572-7 | MW-306 | Water | 10/11/21 14:00 | 10/15/21 16:45 |
| 310-217572-8 | MW-307 | Water | 10/11/21 15:35 | 10/15/21 16:45 |
| 310-217572-9 | MW-307A | Water | 10/11/21 17:50 | 10/15/21 16:45 |
| 310-217572-10 | MW-307B | Water | 10/11/21 17:00 | 10/15/21 16:45 |
| 310-217572-11 | MW-308 | Water | 10/12/21 13:36 | 10/15/21 16:45 |
| 310-217572-12 | MW-309 | Water | 10/12/21 12:20 | 10/15/21 16:45 |
| 310-217572-13 | MW-310A | Water | 10/14/21 09:30 | 10/15/21 16:45 |
| 310-217572-14 | MW-310 | Water | 10/12/21 09:15 | 10/15/21 16:45 |
| 310-217572-15 | MW-311 | Water | 10/12/21 11:00 | 10/15/21 16:45 |
| 310-217572-16 | MW-312 | Water | 10/14/21 11:10 | 10/15/21 16:45 |
| 310-217572-17 | MW-313 | Water | 10/13/21 13:00 | 10/15/21 16:45 |
| 310-217572-18 | MW-313A | Water | 10/13/21 14:00 | 10/15/21 16:45 |
| 310-217572-19 | MW-313B | Water | 10/13/21 15:25 | 10/15/21 16:45 |
| 310-217572-20 | Field Blank | Water | 10/14/21 14:20 | 10/15/21 16:45 |

Detection Summary

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-217572-1

Client Sample ID: MW-301

Lab Sample ID: 310-217572-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------------------|--------|-----------|------|-------|------------|---------|---|----------------|-----------|
| Chloride | 19 | | 5.0 | 2.2 | mg/L | 5 | | 9056A | Total/NA |
| Sulfate | 630 | | 20 | 9.8 | mg/L | 20 | | 9056A | Total/NA |
| Arsenic | 66 | | 2.0 | 0.75 | ug/L | 1 | | 6020A | Total/NA |
| Barium | 170 | | 2.0 | 0.37 | ug/L | 1 | | 6020A | Total/NA |
| Boron | 7300 | | 400 | 230 | ug/L | 4 | | 6020A | Total/NA |
| Cadmium | 0.098 | J | 0.10 | 0.051 | ug/L | 1 | | 6020A | Total/NA |
| Calcium | 260 | | 0.50 | 0.19 | mg/L | 1 | | 6020A | Total/NA |
| Cobalt | 0.74 | | 0.50 | 0.19 | ug/L | 1 | | 6020A | Total/NA |
| Lithium | 11 | | 10 | 2.5 | ug/L | 1 | | 6020A | Total/NA |
| Molybdenum | 47 | | 2.0 | 1.3 | ug/L | 1 | | 6020A | Total/NA |
| Selenium | 0.97 | J | 5.0 | 0.96 | ug/L | 1 | | 6020A | Total/NA |
| Total Dissolved Solids | 1500 | | 50 | 26 | mg/L | 1 | | SM 2540C | Total/NA |
| pH | 7.0 | HF | 0.1 | 0.1 | SU | 1 | | SM 4500 H+ B | Total/NA |
| Ground Water Elevation | 519.40 | | | | ft | 1 | | Field Sampling | Total/NA |
| Oxidation Reduction Potential | -142.8 | | | | millivolts | 1 | | Field Sampling | Total/NA |
| Oxygen, Dissolved, Client Supplied | 0.17 | | | | mg/L | 1 | | Field Sampling | Total/NA |
| pH, Field | 7.01 | | | | SU | 1 | | Field Sampling | Total/NA |
| Specific Conductance, Field | 1858 | | | | umhos/cm | 1 | | Field Sampling | Total/NA |
| Temperature, Field | 13.6 | | | | Degrees C | 1 | | Field Sampling | Total/NA |
| Turbidity, Field | 14.1 | | | | NTU | 1 | | Field Sampling | Total/NA |

Client Sample ID: MW-302

Lab Sample ID: 310-217572-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------------------|--------|-----------|------|-------|------------|---------|---|----------------|-----------|
| Chloride | 12 | | 5.0 | 2.2 | mg/L | 5 | | 9056A | Total/NA |
| Sulfate | 280 | | 5.0 | 2.5 | mg/L | 5 | | 9056A | Total/NA |
| Arsenic | 100 | | 2.0 | 0.75 | ug/L | 1 | | 6020A | Total/NA |
| Barium | 270 | | 2.0 | 0.37 | ug/L | 1 | | 6020A | Total/NA |
| Boron | 10000 | | 400 | 230 | ug/L | 4 | | 6020A | Total/NA |
| Cadmium | 0.12 | | 0.10 | 0.051 | ug/L | 1 | | 6020A | Total/NA |
| Calcium | 160 | | 0.50 | 0.19 | mg/L | 1 | | 6020A | Total/NA |
| Cobalt | 0.27 | J | 0.50 | 0.19 | ug/L | 1 | | 6020A | Total/NA |
| Lithium | 64 | | 10 | 2.5 | ug/L | 1 | | 6020A | Total/NA |
| Molybdenum | 91 | | 2.0 | 1.3 | ug/L | 1 | | 6020A | Total/NA |
| Total Dissolved Solids | 680 | | 50 | 26 | mg/L | 1 | | SM 2540C | Total/NA |
| pH | 7.9 | HF | 0.1 | 0.1 | SU | 1 | | SM 4500 H+ B | Total/NA |
| Ground Water Elevation | 518.75 | | | | ft | 1 | | Field Sampling | Total/NA |
| Oxidation Reduction Potential | -193.7 | | | | millivolts | 1 | | Field Sampling | Total/NA |
| Oxygen, Dissolved, Client Supplied | 0.18 | | | | mg/L | 1 | | Field Sampling | Total/NA |
| pH, Field | 8.28 | | | | SU | 1 | | Field Sampling | Total/NA |
| Specific Conductance, Field | 1043 | | | | umhos/cm | 1 | | Field Sampling | Total/NA |
| Temperature, Field | 13.8 | | | | Degrees C | 1 | | Field Sampling | Total/NA |
| Turbidity, Field | 31.20 | | | | NTU | 1 | | Field Sampling | Total/NA |

Client Sample ID: MW-302A

Lab Sample ID: 310-217572-3

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|----------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| Chloride | 20 | | 5.0 | 2.2 | mg/L | 5 | | 9056A | Total/NA |
| Sulfate | 410 | | 5.0 | 2.5 | mg/L | 5 | | 9056A | Total/NA |
| Arsenic | 1.7 | J | 2.0 | 0.75 | ug/L | 1 | | 6020A | Total/NA |
| Barium | 230 | | 2.0 | 0.37 | ug/L | 1 | | 6020A | Total/NA |
| Boron | 9000 | | 400 | 230 | ug/L | 4 | | 6020A | Total/NA |

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Cedar Falls

Detection Summary

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-217572-1

Client Sample ID: MW-302A (Continued)

Lab Sample ID: 310-217572-3

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------------------|--------|-----------|------|------|------------|---------|---|----------------|-----------|
| Calcium | 140 | | 0.50 | 0.19 | mg/L | 1 | | 6020A | Total/NA |
| Lithium | 12 | | 10 | 2.5 | ug/L | 1 | | 6020A | Total/NA |
| Molybdenum | 93 | | 2.0 | 1.3 | ug/L | 1 | | 6020A | Total/NA |
| Total Dissolved Solids | 780 | | 50 | 26 | mg/L | 1 | | SM 2540C | Total/NA |
| pH | 7.3 | HF | 0.1 | 0.1 | SU | 1 | | SM 4500 H+ B | Total/NA |
| Ground Water Elevation | 518.64 | | | | ft | 1 | | Field Sampling | Total/NA |
| Oxidation Reduction Potential | -115.3 | | | | millivolts | 1 | | Field Sampling | Total/NA |
| Oxygen, Dissolved, Client Supplied | 0.26 | | | | mg/L | 1 | | Field Sampling | Total/NA |
| pH, Field | 7.69 | | | | SU | 1 | | Field Sampling | Total/NA |
| Specific Conductance, Field | 1124 | | | | umhos/cm | 1 | | Field Sampling | Total/NA |
| Temperature, Field | 13.6 | | | | Degrees C | 1 | | Field Sampling | Total/NA |
| Turbidity, Field | 11.2 | | | | NTU | 1 | | Field Sampling | Total/NA |

Client Sample ID: MW-303

Lab Sample ID: 310-217572-4

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------------------|--------|-----------|------|-------|------------|---------|---|----------------|-----------|
| Chloride | 17 | | 5.0 | 2.2 | mg/L | 5 | | 9056A | Total/NA |
| Sulfate | 250 | | 5.0 | 2.5 | mg/L | 5 | | 9056A | Total/NA |
| Arsenic | 14 | | 2.0 | 0.75 | ug/L | 1 | | 6020A | Total/NA |
| Barium | 360 | | 2.0 | 0.37 | ug/L | 1 | | 6020A | Total/NA |
| Boron | 17000 | | 1000 | 580 | ug/L | 10 | | 6020A | Total/NA |
| Cadmium | 0.051 | J | 0.10 | 0.051 | ug/L | 1 | | 6020A | Total/NA |
| Calcium | 130 | | 0.50 | 0.19 | mg/L | 1 | | 6020A | Total/NA |
| Cobalt | 0.42 | J | 0.50 | 0.19 | ug/L | 1 | | 6020A | Total/NA |
| Lithium | 61 | | 10 | 2.5 | ug/L | 1 | | 6020A | Total/NA |
| Molybdenum | 120 | | 2.0 | 1.3 | ug/L | 1 | | 6020A | Total/NA |
| Total Dissolved Solids | 610 | | 50 | 26 | mg/L | 1 | | SM 2540C | Total/NA |
| pH | 7.3 | HF | 0.1 | 0.1 | SU | 1 | | SM 4500 H+ B | Total/NA |
| Ground Water Elevation | 518.58 | | | | ft | 1 | | Field Sampling | Total/NA |
| Oxidation Reduction Potential | -118.4 | | | | millivolts | 1 | | Field Sampling | Total/NA |
| Oxygen, Dissolved, Client Supplied | 0.16 | | | | mg/L | 1 | | Field Sampling | Total/NA |
| pH, Field | 7.25 | | | | SU | 1 | | Field Sampling | Total/NA |
| Specific Conductance, Field | 843 | | | | umhos/cm | 1 | | Field Sampling | Total/NA |
| Temperature, Field | 13.9 | | | | Degrees C | 1 | | Field Sampling | Total/NA |
| Turbidity, Field | 13.6 | | | | NTU | 1 | | Field Sampling | Total/NA |

Client Sample ID: MW-304

Lab Sample ID: 310-217572-5

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------------------|--------|-----------|------|------|------------|---------|---|----------------|-----------|
| Chloride | 23 | | 5.0 | 2.2 | mg/L | 5 | | 9056A | Total/NA |
| Sulfate | 220 | | 5.0 | 2.5 | mg/L | 5 | | 9056A | Total/NA |
| Arsenic | 32 | | 2.0 | 0.75 | ug/L | 1 | | 6020A | Total/NA |
| Barium | 160 | | 2.0 | 0.37 | ug/L | 1 | | 6020A | Total/NA |
| Boron | 7600 | | 400 | 230 | ug/L | 4 | | 6020A | Total/NA |
| Calcium | 130 | | 0.50 | 0.19 | mg/L | 1 | | 6020A | Total/NA |
| Lithium | 60 | | 10 | 2.5 | ug/L | 1 | | 6020A | Total/NA |
| Molybdenum | 59 | | 2.0 | 1.3 | ug/L | 1 | | 6020A | Total/NA |
| Total Dissolved Solids | 570 | | 50 | 26 | mg/L | 1 | | SM 2540C | Total/NA |
| pH | 8.0 | HF | 0.1 | 0.1 | SU | 1 | | SM 4500 H+ B | Total/NA |
| Ground Water Elevation | 518.68 | | | | ft | 1 | | Field Sampling | Total/NA |
| Oxidation Reduction Potential | -149.0 | | | | millivolts | 1 | | Field Sampling | Total/NA |
| Oxygen, Dissolved, Client Supplied | 0.15 | | | | mg/L | 1 | | Field Sampling | Total/NA |

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Cedar Falls

Detection Summary

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-217572-1

Client Sample ID: MW-304 (Continued)

Lab Sample ID: 310-217572-5

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-----------------------------|--------|-----------|----|-----|-----------|---------|---|----------------|-----------|
| pH, Field | 7.53 | | | | SU | 1 | | Field Sampling | Total/NA |
| Specific Conductance, Field | 806 | | | | umhos/cm | 1 | | Field Sampling | Total/NA |
| Temperature, Field | 14.5 | | | | Degrees C | 1 | | Field Sampling | Total/NA |
| Turbidity, Field | 7.7 | | | | NTU | 1 | | Field Sampling | Total/NA |

Client Sample ID: MW-305

Lab Sample ID: 310-217572-6

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------------------|--------|-----------|------|------|------------|---------|---|----------------|-----------|
| Chloride | 34 | | 5.0 | 2.2 | mg/L | 5 | | 9056A | Total/NA |
| Fluoride | 0.31 | J | 0.50 | 0.28 | mg/L | 5 | | 9056A | Total/NA |
| Sulfate | 52 | | 5.0 | 2.5 | mg/L | 5 | | 9056A | Total/NA |
| Barium | 240 | | 2.0 | 0.37 | ug/L | 1 | | 6020A | Total/NA |
| Boron | 2400 | | 100 | 58 | ug/L | 1 | | 6020A | Total/NA |
| Calcium | 130 | | 0.50 | 0.19 | mg/L | 1 | | 6020A | Total/NA |
| Cobalt | 0.21 | J | 0.50 | 0.19 | ug/L | 1 | | 6020A | Total/NA |
| Lithium | 32 | | 10 | 2.5 | ug/L | 1 | | 6020A | Total/NA |
| Total Dissolved Solids | 570 | | 50 | 26 | mg/L | 1 | | SM 2540C | Total/NA |
| pH | 7.4 | HF | 0.1 | 0.1 | SU | 1 | | SM 4500 H+ B | Total/NA |
| Ground Water Elevation | 519.18 | | | | ft | 1 | | Field Sampling | Total/NA |
| Oxidation Reduction Potential | -95.1 | | | | millivolts | 1 | | Field Sampling | Total/NA |
| Oxygen, Dissolved, Client Supplied | 0.17 | | | | mg/L | 1 | | Field Sampling | Total/NA |
| pH, Field | 7.24 | | | | SU | 1 | | Field Sampling | Total/NA |
| Specific Conductance, Field | 911 | | | | umhos/cm | 1 | | Field Sampling | Total/NA |
| Temperature, Field | 14.7 | | | | Degrees C | 1 | | Field Sampling | Total/NA |
| Turbidity, Field | 9.0 | | | | NTU | 1 | | Field Sampling | Total/NA |

Client Sample ID: MW-306

Lab Sample ID: 310-217572-7

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------------------|--------|-----------|------|------|------------|---------|---|----------------|-----------|
| Chloride | 19 | | 5.0 | 2.2 | mg/L | 5 | | 9056A | Total/NA |
| Sulfate | 120 | | 5.0 | 2.5 | mg/L | 5 | | 9056A | Total/NA |
| Arsenic | 43 | | 2.0 | 0.75 | ug/L | 1 | | 6020A | Total/NA |
| Barium | 17 | | 2.0 | 0.37 | ug/L | 1 | | 6020A | Total/NA |
| Boron | 2800 | | 100 | 58 | ug/L | 1 | | 6020A | Total/NA |
| Calcium | 42 | | 0.50 | 0.19 | mg/L | 1 | | 6020A | Total/NA |
| Lead | 0.26 | J | 0.50 | 0.21 | ug/L | 1 | | 6020A | Total/NA |
| Lithium | 41 | | 10 | 2.5 | ug/L | 1 | | 6020A | Total/NA |
| Molybdenum | 69 | | 2.0 | 1.3 | ug/L | 1 | | 6020A | Total/NA |
| Selenium | 1.2 | J | 5.0 | 0.96 | ug/L | 1 | | 6020A | Total/NA |
| Total Dissolved Solids | 250 | | 50 | 26 | mg/L | 1 | | SM 2540C | Total/NA |
| pH | 6.2 | HF | 0.1 | 0.1 | SU | 1 | | SM 4500 H+ B | Total/NA |
| Ground Water Elevation | 519.15 | | | | ft | 1 | | Field Sampling | Total/NA |
| Oxidation Reduction Potential | 12.3 | | | | millivolts | 1 | | Field Sampling | Total/NA |
| Oxygen, Dissolved, Client Supplied | 0.28 | | | | mg/L | 1 | | Field Sampling | Total/NA |
| pH, Field | 5.83 | | | | SU | 1 | | Field Sampling | Total/NA |
| Specific Conductance, Field | 476.1 | | | | umhos/cm | 1 | | Field Sampling | Total/NA |
| Temperature, Field | 16.0 | | | | Degrees C | 1 | | Field Sampling | Total/NA |
| Turbidity, Field | 6.9 | | | | NTU | 1 | | Field Sampling | Total/NA |

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Cedar Falls

Detection Summary

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-217572-1

Client Sample ID: MW-307

Lab Sample ID: 310-217572-8

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------------------|--------|-----------|------|------|------------|---------|---|----------------|-----------|
| Chloride | 19 | | 5.0 | 2.2 | mg/L | 5 | | 9056A | Total/NA |
| Sulfate | 170 | | 5.0 | 2.5 | mg/L | 5 | | 9056A | Total/NA |
| Arsenic | 34 | | 2.0 | 0.75 | ug/L | 1 | | 6020A | Total/NA |
| Barium | 39 | | 2.0 | 0.37 | ug/L | 1 | | 6020A | Total/NA |
| Boron | 3000 | | 100 | 58 | ug/L | 1 | | 6020A | Total/NA |
| Calcium | 42 | | 0.50 | 0.19 | mg/L | 1 | | 6020A | Total/NA |
| Lithium | 52 | | 10 | 2.5 | ug/L | 1 | | 6020A | Total/NA |
| Molybdenum | 85 | | 2.0 | 1.3 | ug/L | 1 | | 6020A | Total/NA |
| Total Dissolved Solids | 280 | | 50 | 26 | mg/L | 1 | | SM 2540C | Total/NA |
| pH | 10.2 | HF | 0.1 | 0.1 | SU | 1 | | SM 4500 H+ B | Total/NA |
| Ground Water Elevation | 519.55 | | | | ft | 1 | | Field Sampling | Total/NA |
| Oxidation Reduction Potential | -215.3 | | | | millivolts | 1 | | Field Sampling | Total/NA |
| Oxygen, Dissolved, Client Supplied | 0.16 | | | | mg/L | 1 | | Field Sampling | Total/NA |
| pH, Field | 9.89 | | | | SU | 1 | | Field Sampling | Total/NA |
| Specific Conductance, Field | 547.9 | | | | umhos/cm | 1 | | Field Sampling | Total/NA |
| Temperature, Field | 14.4 | | | | Degrees C | 1 | | Field Sampling | Total/NA |
| Turbidity, Field | 8.2 | | | | NTU | 1 | | Field Sampling | Total/NA |

Client Sample ID: MW-307A

Lab Sample ID: 310-217572-9

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------------------|--------|-----------|------|-------|------------|---------|---|----------------|-----------|
| Chloride | 31 | | 5.0 | 2.2 | mg/L | 5 | | 9056A | Total/NA |
| Sulfate | 140 | | 5.0 | 2.5 | mg/L | 5 | | 9056A | Total/NA |
| Barium | 43 | | 2.0 | 0.37 | ug/L | 1 | | 6020A | Total/NA |
| Boron | 4300 | | 100 | 58 | ug/L | 1 | | 6020A | Total/NA |
| Cadmium | 0.069 | J | 0.10 | 0.051 | ug/L | 1 | | 6020A | Total/NA |
| Calcium | 10 | | 0.50 | 0.19 | mg/L | 1 | | 6020A | Total/NA |
| Lead | 0.77 | | 0.50 | 0.21 | ug/L | 1 | | 6020A | Total/NA |
| Lithium | 7.7 | J | 10 | 2.5 | ug/L | 1 | | 6020A | Total/NA |
| Molybdenum | 110 | | 2.0 | 1.3 | ug/L | 1 | | 6020A | Total/NA |
| Total Dissolved Solids | 310 | | 50 | 26 | mg/L | 1 | | SM 2540C | Total/NA |
| pH | 7.8 | HF | 0.1 | 0.1 | SU | 1 | | SM 4500 H+ B | Total/NA |
| Ground Water Elevation | 519.09 | | | | ft | 1 | | Field Sampling | Total/NA |
| Oxidation Reduction Potential | -133.4 | | | | millivolts | 1 | | Field Sampling | Total/NA |
| Oxygen, Dissolved, Client Supplied | 0.12 | | | | mg/L | 1 | | Field Sampling | Total/NA |
| pH, Field | 7.83 | | | | SU | 1 | | Field Sampling | Total/NA |
| Specific Conductance, Field | 551.0 | | | | umhos/cm | 1 | | Field Sampling | Total/NA |
| Temperature, Field | 14.4 | | | | Degrees C | 1 | | Field Sampling | Total/NA |
| Turbidity, Field | 7.40 | | | | NTU | 1 | | Field Sampling | Total/NA |

Client Sample ID: MW-307B

Lab Sample ID: 310-217572-10

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|------|-------|------|---------|---|----------|-----------|
| Chloride | 18 | | 5.0 | 2.2 | mg/L | 5 | | 9056A | Total/NA |
| Sulfate | 77 | | 5.0 | 2.5 | mg/L | 5 | | 9056A | Total/NA |
| Barium | 310 | | 2.0 | 0.37 | ug/L | 1 | | 6020A | Total/NA |
| Boron | 2700 | | 100 | 58 | ug/L | 1 | | 6020A | Total/NA |
| Cadmium | 0.065 | J | 0.10 | 0.051 | ug/L | 1 | | 6020A | Total/NA |
| Calcium | 66 | | 0.50 | 0.19 | mg/L | 1 | | 6020A | Total/NA |
| Lithium | 7.0 | J | 10 | 2.5 | ug/L | 1 | | 6020A | Total/NA |
| Molybdenum | 25 | | 2.0 | 1.3 | ug/L | 1 | | 6020A | Total/NA |
| Total Dissolved Solids | 230 | | 50 | 26 | mg/L | 1 | | SM 2540C | Total/NA |

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Cedar Falls

Detection Summary

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-217572-1

Client Sample ID: MW-307B (Continued)

Lab Sample ID: 310-217572-10

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------------------|--------|-----------|-----|-----|------------|---------|---|----------------|-----------|
| pH | 7.6 | HF | 0.1 | 0.1 | SU | 1 | | SM 4500 H+ B | Total/NA |
| Ground Water Elevation | 519.13 | | | | ft | 1 | | Field Sampling | Total/NA |
| Oxidation Reduction Potential | -130.6 | | | | millivolts | 1 | | Field Sampling | Total/NA |
| Oxygen, Dissolved, Client Supplied | 0.10 | | | | mg/L | 1 | | Field Sampling | Total/NA |
| pH, Field | 7.72 | | | | SU | 1 | | Field Sampling | Total/NA |
| Specific Conductance, Field | 459.6 | | | | umhos/cm | 1 | | Field Sampling | Total/NA |
| Temperature, Field | 14.4 | | | | Degrees C | 1 | | Field Sampling | Total/NA |
| Turbidity, Field | 10.10 | | | | NTU | 1 | | Field Sampling | Total/NA |

Client Sample ID: MW-308

Lab Sample ID: 310-217572-11

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------------------|--------|-----------|------|------|------------|---------|---|----------------|-----------|
| Chloride | 41 | | 5.0 | 2.2 | mg/L | 5 | | 9056A | Total/NA |
| Sulfate | 190 | | 5.0 | 2.5 | mg/L | 5 | | 9056A | Total/NA |
| Arsenic | 59 | | 2.0 | 0.75 | ug/L | 1 | | 6020A | Total/NA |
| Barium | 82 | | 2.0 | 0.37 | ug/L | 1 | | 6020A | Total/NA |
| Boron | 3900 | | 100 | 58 | ug/L | 1 | | 6020A | Total/NA |
| Calcium | 38 | | 0.50 | 0.19 | mg/L | 1 | | 6020A | Total/NA |
| Lithium | 58 | | 10 | 2.5 | ug/L | 1 | | 6020A | Total/NA |
| Molybdenum | 81 | | 2.0 | 1.3 | ug/L | 1 | | 6020A | Total/NA |
| Total Dissolved Solids | 410 | | 50 | 26 | mg/L | 1 | | SM 2540C | Total/NA |
| pH | 10.0 | HF | 0.1 | 0.1 | SU | 1 | | SM 4500 H+ B | Total/NA |
| Ground Water Elevation | 519.25 | | | | ft | 1 | | Field Sampling | Total/NA |
| Oxidation Reduction Potential | -219.8 | | | | millivolts | 1 | | Field Sampling | Total/NA |
| Oxygen, Dissolved, Client Supplied | 0.06 | | | | mg/L | 1 | | Field Sampling | Total/NA |
| pH, Field | 9.97 | | | | SU | 1 | | Field Sampling | Total/NA |
| Specific Conductance, Field | 728 | | | | umhos/cm | 1 | | Field Sampling | Total/NA |
| Temperature, Field | 15.0 | | | | Degrees C | 1 | | Field Sampling | Total/NA |
| Turbidity, Field | 8.8 | | | | NTU | 1 | | Field Sampling | Total/NA |

Client Sample ID: MW-309

Lab Sample ID: 310-217572-12

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------------------|--------|-----------|------|------|------------|---------|---|----------------|-----------|
| Chloride | 79 | | 5.0 | 2.2 | mg/L | 5 | | 9056A | Total/NA |
| Fluoride | 0.39 | J | 0.50 | 0.28 | mg/L | 5 | | 9056A | Total/NA |
| Sulfate | 120 | | 5.0 | 2.5 | mg/L | 5 | | 9056A | Total/NA |
| Arsenic | 24 | | 2.0 | 0.75 | ug/L | 1 | | 6020A | Total/NA |
| Barium | 370 | | 2.0 | 0.37 | ug/L | 1 | | 6020A | Total/NA |
| Boron | 4400 | | 100 | 58 | ug/L | 1 | | 6020A | Total/NA |
| Calcium | 71 | | 0.50 | 0.19 | mg/L | 1 | | 6020A | Total/NA |
| Cobalt | 0.29 | J | 0.50 | 0.19 | ug/L | 1 | | 6020A | Total/NA |
| Lithium | 2.8 | J | 10 | 2.5 | ug/L | 1 | | 6020A | Total/NA |
| Molybdenum | 39 | | 2.0 | 1.3 | ug/L | 1 | | 6020A | Total/NA |
| Total Dissolved Solids | 470 | | 50 | 26 | mg/L | 1 | | SM 2540C | Total/NA |
| pH | 7.2 | HF | 0.1 | 0.1 | SU | 1 | | SM 4500 H+ B | Total/NA |
| Ground Water Elevation | 519.43 | | | | ft | 1 | | Field Sampling | Total/NA |
| Oxidation Reduction Potential | -155.1 | | | | millivolts | 1 | | Field Sampling | Total/NA |
| Oxygen, Dissolved, Client Supplied | 0.17 | | | | mg/L | 1 | | Field Sampling | Total/NA |
| pH, Field | 7.18 | | | | SU | 1 | | Field Sampling | Total/NA |
| Specific Conductance, Field | 927 | | | | umhos/cm | 1 | | Field Sampling | Total/NA |
| Temperature, Field | 15.3 | | | | Degrees C | 1 | | Field Sampling | Total/NA |
| Turbidity, Field | 19.6 | | | | NTU | 1 | | Field Sampling | Total/NA |

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Cedar Falls

Detection Summary

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-217572-1

Client Sample ID: MW-310A

Lab Sample ID: 310-217572-13

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------------------|--------|-----------|------|------|------------|---------|---|----------------|-----------|
| Chloride | 14 | | 5.0 | 2.2 | mg/L | 5 | | 9056A | Total/NA |
| Fluoride | 0.75 | | 0.50 | 0.28 | mg/L | 5 | | 9056A | Total/NA |
| Sulfate | 99 | | 5.0 | 2.5 | mg/L | 5 | | 9056A | Total/NA |
| Arsenic | 3.6 | | 2.0 | 0.75 | ug/L | 1 | | 6020A | Total/NA |
| Barium | 64 | | 2.0 | 0.37 | ug/L | 1 | | 6020A | Total/NA |
| Boron | 940 | | 100 | 58 | ug/L | 1 | | 6020A | Total/NA |
| Calcium | 51 | | 0.50 | 0.19 | mg/L | 1 | | 6020A | Total/NA |
| Cobalt | 3.0 | | 0.50 | 0.19 | ug/L | 1 | | 6020A | Total/NA |
| Lead | 3.3 | | 0.50 | 0.21 | ug/L | 1 | | 6020A | Total/NA |
| Lithium | 34 | | 10 | 2.5 | ug/L | 1 | | 6020A | Total/NA |
| Molybdenum | 20 | | 2.0 | 1.3 | ug/L | 1 | | 6020A | Total/NA |
| Total Dissolved Solids | 520 | | 50 | 26 | mg/L | 1 | | SM 2540C | Total/NA |
| pH | 6.5 | HF | 0.1 | 0.1 | SU | 1 | | SM 4500 H+ B | Total/NA |
| Ground Water Elevation | 521.83 | | | | ft | 1 | | Field Sampling | Total/NA |
| Oxidation Reduction Potential | 153.3 | | | | millivolts | 1 | | Field Sampling | Total/NA |
| Oxygen, Dissolved, Client Supplied | 2.04 | | | | mg/L | 1 | | Field Sampling | Total/NA |
| pH, Field | 7.07 | | | | SU | 1 | | Field Sampling | Total/NA |
| Specific Conductance, Field | 842 | | | | umhos/cm | 1 | | Field Sampling | Total/NA |
| Temperature, Field | 15.5 | | | | Degrees C | 1 | | Field Sampling | Total/NA |
| Turbidity, Field | 80 | | | | NTU | 1 | | Field Sampling | Total/NA |

Client Sample ID: MW-310

Lab Sample ID: 310-217572-14

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------------------|--------|-----------|------|------|------------|---------|---|----------------|-----------|
| Chloride | 14 | | 5.0 | 2.2 | mg/L | 5 | | 9056A | Total/NA |
| Sulfate | 55 | | 5.0 | 2.5 | mg/L | 5 | | 9056A | Total/NA |
| Arsenic | 63 | | 2.0 | 0.75 | ug/L | 1 | | 6020A | Total/NA |
| Barium | 290 | | 2.0 | 0.37 | ug/L | 1 | | 6020A | Total/NA |
| Boron | 310 | | 100 | 58 | ug/L | 1 | | 6020A | Total/NA |
| Calcium | 84 | | 0.50 | 0.19 | mg/L | 1 | | 6020A | Total/NA |
| Cobalt | 1.4 | | 0.50 | 0.19 | ug/L | 1 | | 6020A | Total/NA |
| Molybdenum | 4.9 | | 2.0 | 1.3 | ug/L | 1 | | 6020A | Total/NA |
| Total Dissolved Solids | 280 | | 50 | 26 | mg/L | 1 | | SM 2540C | Total/NA |
| pH | 7.2 | HF | 0.1 | 0.1 | SU | 1 | | SM 4500 H+ B | Total/NA |
| Ground Water Elevation | 524.69 | | | | ft | 1 | | Field Sampling | Total/NA |
| Oxidation Reduction Potential | -181.6 | | | | millivolts | 1 | | Field Sampling | Total/NA |
| Oxygen, Dissolved, Client Supplied | 0.18 | | | | mg/L | 1 | | Field Sampling | Total/NA |
| pH, Field | 7.22 | | | | SU | 1 | | Field Sampling | Total/NA |
| Specific Conductance, Field | 668 | | | | umhos/cm | 1 | | Field Sampling | Total/NA |
| Temperature, Field | 17.3 | | | | Degrees C | 1 | | Field Sampling | Total/NA |
| Turbidity, Field | 11.4 | | | | NTU | 1 | | Field Sampling | Total/NA |

Client Sample ID: MW-311

Lab Sample ID: 310-217572-15

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|----------|--------|-----------|------|------|------|---------|---|--------|-----------|
| Chloride | 110 | | 5.0 | 2.2 | mg/L | 5 | | 9056A | Total/NA |
| Sulfate | 190 | | 5.0 | 2.5 | mg/L | 5 | | 9056A | Total/NA |
| Arsenic | 22 | | 2.0 | 0.75 | ug/L | 1 | | 6020A | Total/NA |
| Barium | 230 | | 2.0 | 0.37 | ug/L | 1 | | 6020A | Total/NA |
| Boron | 1800 | | 100 | 58 | ug/L | 1 | | 6020A | Total/NA |
| Calcium | 160 | | 0.50 | 0.19 | mg/L | 1 | | 6020A | Total/NA |
| Cobalt | 0.31 | J | 0.50 | 0.19 | ug/L | 1 | | 6020A | Total/NA |

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Cedar Falls

Detection Summary

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-217572-1

Client Sample ID: MW-311 (Continued)

Lab Sample ID: 310-217572-15

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------------------|--------|-----------|-----|-----|------------|---------|---|----------------|-----------|
| Molybdenum | 6.9 | | 2.0 | 1.3 | ug/L | 1 | | 6020A | Total/NA |
| Total Dissolved Solids | 750 | | 50 | 26 | mg/L | 1 | | SM 2540C | Total/NA |
| pH | 7.2 | HF | 0.1 | 0.1 | SU | 1 | | SM 4500 H+ B | Total/NA |
| Ground Water Elevation | 522.00 | | | | ft | 1 | | Field Sampling | Total/NA |
| Oxidation Reduction Potential | -157.6 | | | | millivolts | 1 | | Field Sampling | Total/NA |
| Oxygen, Dissolved, Client Supplied | 0.17 | | | | mg/L | 1 | | Field Sampling | Total/NA |
| pH, Field | 7.17 | | | | SU | 1 | | Field Sampling | Total/NA |
| Specific Conductance, Field | 1431 | | | | umhos/cm | 1 | | Field Sampling | Total/NA |
| Temperature, Field | 14.9 | | | | Degrees C | 1 | | Field Sampling | Total/NA |
| Turbidity, Field | 11.1 | | | | NTU | 1 | | Field Sampling | Total/NA |

Client Sample ID: MW-312

Lab Sample ID: 310-217572-16

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------------------|--------|-----------|------|-------|------------|---------|---|----------------|-----------|
| Chloride | 24 | | 5.0 | 2.2 | mg/L | 5 | | 9056A | Total/NA |
| Sulfate | 190 | | 5.0 | 2.5 | mg/L | 5 | | 9056A | Total/NA |
| Arsenic | 17 | | 2.0 | 0.75 | ug/L | 1 | | 6020A | Total/NA |
| Barium | 170 | | 2.0 | 0.37 | ug/L | 1 | | 6020A | Total/NA |
| Boron | 5300 | | 400 | 230 | ug/L | 4 | | 6020A | Total/NA |
| Cadmium | 0.086 | J | 0.10 | 0.051 | ug/L | 1 | | 6020A | Total/NA |
| Calcium | 70 | | 0.50 | 0.19 | mg/L | 1 | | 6020A | Total/NA |
| Cobalt | 0.42 | J | 0.50 | 0.19 | ug/L | 1 | | 6020A | Total/NA |
| Lithium | 24 | | 10 | 2.5 | ug/L | 1 | | 6020A | Total/NA |
| Molybdenum | 240 | | 2.0 | 1.3 | ug/L | 1 | | 6020A | Total/NA |
| Total Dissolved Solids | 480 | | 50 | 26 | mg/L | 1 | | SM 2540C | Total/NA |
| pH | 7.2 | HF | 0.1 | 0.1 | SU | 1 | | SM 4500 H+ B | Total/NA |
| Ground Water Elevation | 518.78 | | | | ft | 1 | | Field Sampling | Total/NA |
| Oxidation Reduction Potential | -143.4 | | | | millivolts | 1 | | Field Sampling | Total/NA |
| Oxygen, Dissolved, Client Supplied | 0.20 | | | | mg/L | 1 | | Field Sampling | Total/NA |
| pH, Field | 7.20 | | | | SU | 1 | | Field Sampling | Total/NA |
| Specific Conductance, Field | 688 | | | | umhos/cm | 1 | | Field Sampling | Total/NA |
| Temperature, Field | 15.7 | | | | Degrees C | 1 | | Field Sampling | Total/NA |
| Turbidity, Field | 13.1 | | | | NTU | 1 | | Field Sampling | Total/NA |

Client Sample ID: MW-313

Lab Sample ID: 310-217572-17

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------------------|--------|-----------|------|-------|------------|---------|---|----------------|-----------|
| Chloride | 230 | | 5.0 | 2.2 | mg/L | 5 | | 9056A | Total/NA |
| Fluoride | 0.47 | J | 0.50 | 0.28 | mg/L | 5 | | 9056A | Total/NA |
| Sulfate | 230 | | 5.0 | 2.5 | mg/L | 5 | | 9056A | Total/NA |
| Arsenic | 4.7 | | 2.0 | 0.75 | ug/L | 1 | | 6020A | Total/NA |
| Barium | 390 | | 2.0 | 0.37 | ug/L | 1 | | 6020A | Total/NA |
| Boron | 4800 | | 400 | 230 | ug/L | 4 | | 6020A | Total/NA |
| Cadmium | 0.069 | J | 0.10 | 0.051 | ug/L | 1 | | 6020A | Total/NA |
| Calcium | 70 | | 0.50 | 0.19 | mg/L | 1 | | 6020A | Total/NA |
| Lithium | 18 | | 10 | 2.5 | ug/L | 1 | | 6020A | Total/NA |
| Molybdenum | 170 | | 2.0 | 1.3 | ug/L | 1 | | 6020A | Total/NA |
| Total Dissolved Solids | 740 | | 50 | 26 | mg/L | 1 | | SM 2540C | Total/NA |
| pH | 7.0 | HF | 0.1 | 0.1 | SU | 1 | | SM 4500 H+ B | Total/NA |
| Ground Water Elevation | 518.72 | | | | ft | 1 | | Field Sampling | Total/NA |
| Oxidation Reduction Potential | -117.9 | | | | millivolts | 1 | | Field Sampling | Total/NA |
| Oxygen, Dissolved, Client Supplied | 0.10 | | | | mg/L | 1 | | Field Sampling | Total/NA |

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Cedar Falls

Detection Summary

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-217572-1

Client Sample ID: MW-313 (Continued)

Lab Sample ID: 310-217572-17

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-----------------------------|--------|-----------|----|-----|-----------|---------|---|----------------|-----------|
| pH, Field | 7.25 | | | | SU | 1 | | Field Sampling | Total/NA |
| Specific Conductance, Field | 1198 | | | | umhos/cm | 1 | | Field Sampling | Total/NA |
| Temperature, Field | 15.9 | | | | Degrees C | 1 | | Field Sampling | Total/NA |
| Turbidity, Field | 24.8 | | | | NTU | 1 | | Field Sampling | Total/NA |

Client Sample ID: MW-313A

Lab Sample ID: 310-217572-18

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------------------|--------|-----------|------|------|------------|---------|---|----------------|-----------|
| Chloride | 100 | | 5.0 | 2.2 | mg/L | 5 | | 9056A | Total/NA |
| Fluoride | 0.38 | J | 0.50 | 0.28 | mg/L | 5 | | 9056A | Total/NA |
| Sulfate | 140 | | 5.0 | 2.5 | mg/L | 5 | | 9056A | Total/NA |
| Barium | 150 | | 2.0 | 0.37 | ug/L | 1 | | 6020A | Total/NA |
| Boron | 3500 | | 100 | 58 | ug/L | 1 | | 6020A | Total/NA |
| Calcium | 30 | | 0.50 | 0.19 | mg/L | 1 | | 6020A | Total/NA |
| Lithium | 11 | | 10 | 2.5 | ug/L | 1 | | 6020A | Total/NA |
| Molybdenum | 100 | | 2.0 | 1.3 | ug/L | 1 | | 6020A | Total/NA |
| Total Dissolved Solids | 440 | | 50 | 26 | mg/L | 1 | | SM 2540C | Total/NA |
| pH | 7.7 | HF | 0.1 | 0.1 | SU | 1 | | SM 4500 H+ B | Total/NA |
| Ground Water Elevation | 518.62 | | | | ft | 1 | | Field Sampling | Total/NA |
| Oxidation Reduction Potential | -117.7 | | | | millivolts | 1 | | Field Sampling | Total/NA |
| Oxygen, Dissolved, Client Supplied | 0.11 | | | | mg/L | 1 | | Field Sampling | Total/NA |
| pH, Field | 7.53 | | | | SU | 1 | | Field Sampling | Total/NA |
| Specific Conductance, Field | 757 | | | | umhos/cm | 1 | | Field Sampling | Total/NA |
| Temperature, Field | 15.4 | | | | Degrees C | 1 | | Field Sampling | Total/NA |
| Turbidity, Field | 7.7 | | | | NTU | 1 | | Field Sampling | Total/NA |

Client Sample ID: MW-313B

Lab Sample ID: 310-217572-19

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------------------|--------|-----------|------|-------|------------|---------|---|----------------|-----------|
| Chloride | 89 | | 5.0 | 2.2 | mg/L | 5 | | 9056A | Total/NA |
| Sulfate | 140 | | 5.0 | 2.5 | mg/L | 5 | | 9056A | Total/NA |
| Barium | 170 | | 2.0 | 0.37 | ug/L | 1 | | 6020A | Total/NA |
| Boron | 4200 | | 100 | 58 | ug/L | 1 | | 6020A | Total/NA |
| Cadmium | 0.090 | J | 0.10 | 0.051 | ug/L | 1 | | 6020A | Total/NA |
| Calcium | 44 | | 0.50 | 0.19 | mg/L | 1 | | 6020A | Total/NA |
| Lithium | 13 | | 10 | 2.5 | ug/L | 1 | | 6020A | Total/NA |
| Molybdenum | 100 | | 2.0 | 1.3 | ug/L | 1 | | 6020A | Total/NA |
| Total Dissolved Solids | 420 | | 50 | 26 | mg/L | 1 | | SM 2540C | Total/NA |
| pH | 7.7 | HF | 0.1 | 0.1 | SU | 1 | | SM 4500 H+ B | Total/NA |
| Ground Water Elevation | 518.72 | | | | ft | 1 | | Field Sampling | Total/NA |
| Oxidation Reduction Potential | -90.8 | | | | millivolts | 1 | | Field Sampling | Total/NA |
| Oxygen, Dissolved, Client Supplied | 0.09 | | | | mg/L | 1 | | Field Sampling | Total/NA |
| pH, Field | 7.54 | | | | SU | 1 | | Field Sampling | Total/NA |
| Specific Conductance, Field | 714 | | | | umhos/cm | 1 | | Field Sampling | Total/NA |
| Temperature, Field | 15.4 | | | | Degrees C | 1 | | Field Sampling | Total/NA |
| Turbidity, Field | 8.6 | | | | NTU | 1 | | Field Sampling | Total/NA |

Client Sample ID: Field Blank

Lab Sample ID: 310-217572-20

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|-----|-----|------|---------|---|--------------|-----------|
| Boron | 93 | J | 100 | 58 | ug/L | 1 | | 6020A | Total/NA |
| pH | 6.1 | HF | 0.1 | 0.1 | SU | 1 | | SM 4500 H+ B | Total/NA |

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Cedar Falls

Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-217572-1

Client Sample ID: MW-301

Lab Sample ID: 310-217572-1

Date Collected: 10/13/21 09:05

Matrix: Water

Date Received: 10/15/21 16:45

Method: 9056A - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------|------------|-----------|------|------|------|---|----------|----------------|---------|
| Chloride | 19 | | 5.0 | 2.2 | mg/L | | | 10/19/21 19:14 | 5 |
| Fluoride | <0.28 | | 0.50 | 0.28 | mg/L | | | 10/19/21 19:14 | 5 |
| Sulfate | 630 | | 20 | 9.8 | mg/L | | | 10/20/21 07:38 | 20 |

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------|--------------|-----------|------|-------|------|---|----------------|----------------|---------|
| Antimony | <1.1 | | 2.0 | 1.1 | ug/L | | 10/19/21 09:15 | 10/28/21 20:29 | 1 |
| Arsenic | 66 | | 2.0 | 0.75 | ug/L | | 10/19/21 09:15 | 10/28/21 20:29 | 1 |
| Barium | 170 | | 2.0 | 0.37 | ug/L | | 10/19/21 09:15 | 10/28/21 20:29 | 1 |
| Beryllium | <0.27 | | 1.0 | 0.27 | ug/L | | 10/19/21 09:15 | 10/28/21 20:29 | 1 |
| Boron | 7300 | | 400 | 230 | ug/L | | 10/19/21 09:15 | 10/29/21 11:39 | 4 |
| Cadmium | 0.098 | J | 0.10 | 0.051 | ug/L | | 10/19/21 09:15 | 10/28/21 20:29 | 1 |
| Calcium | 260 | | 0.50 | 0.19 | mg/L | | 10/19/21 09:15 | 10/28/21 20:29 | 1 |
| Chromium | <1.1 | | 5.0 | 1.1 | ug/L | | 10/19/21 09:15 | 10/28/21 20:29 | 1 |
| Cobalt | 0.74 | | 0.50 | 0.19 | ug/L | | 10/19/21 09:15 | 10/28/21 20:29 | 1 |
| Lead | <0.21 | | 0.50 | 0.21 | ug/L | | 10/19/21 09:15 | 10/28/21 20:29 | 1 |
| Lithium | 11 | | 10 | 2.5 | ug/L | | 10/19/21 09:15 | 10/28/21 20:29 | 1 |
| Molybdenum | 47 | | 2.0 | 1.3 | ug/L | | 10/19/21 09:15 | 10/28/21 20:29 | 1 |
| Selenium | 0.97 | J | 5.0 | 0.96 | ug/L | | 10/19/21 09:15 | 10/28/21 20:29 | 1 |
| Thallium | <0.26 | | 1.0 | 0.26 | ug/L | | 10/19/21 09:15 | 10/28/21 20:29 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|-------------|-----------|-----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 1500 | | 50 | 26 | mg/L | | | 10/18/21 15:21 | 1 |
| pH | 7.0 | HF | 0.1 | 0.1 | SU | | | 10/16/21 10:45 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------------|---------------|-----------|----|-----|------------|---|----------|----------------|---------|
| Ground Water Elevation | 519.40 | | | | ft | | | 10/13/21 09:05 | 1 |
| Oxidation Reduction Potential | -142.8 | | | | millivolts | | | 10/13/21 09:05 | 1 |
| Oxygen, Dissolved, Client Supplied | 0.17 | | | | mg/L | | | 10/13/21 09:05 | 1 |
| pH, Field | 7.01 | | | | SU | | | 10/13/21 09:05 | 1 |
| Specific Conductance, Field | 1858 | | | | umhos/cm | | | 10/13/21 09:05 | 1 |
| Temperature, Field | 13.6 | | | | Degrees C | | | 10/13/21 09:05 | 1 |
| Turbidity, Field | 14.1 | | | | NTU | | | 10/13/21 09:05 | 1 |

Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-217572-1

Client Sample ID: MW-302

Lab Sample ID: 310-217572-2

Date Collected: 10/12/21 14:40

Matrix: Water

Date Received: 10/15/21 16:45

Method: 9056A - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------|------------|-----------|------|------|------|---|----------|----------------|---------|
| Chloride | 12 | | 5.0 | 2.2 | mg/L | | | 10/19/21 20:01 | 5 |
| Fluoride | <0.28 | | 0.50 | 0.28 | mg/L | | | 10/19/21 20:01 | 5 |
| Sulfate | 280 | | 5.0 | 2.5 | mg/L | | | 10/19/21 20:01 | 5 |

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------|---------------|-----------|------|-------|------|---|----------------|----------------|---------|
| Antimony | <1.1 | | 2.0 | 1.1 | ug/L | | 10/19/21 09:15 | 10/28/21 20:50 | 1 |
| Arsenic | 100 | | 2.0 | 0.75 | ug/L | | 10/19/21 09:15 | 10/28/21 20:50 | 1 |
| Barium | 270 | | 2.0 | 0.37 | ug/L | | 10/19/21 09:15 | 10/28/21 20:50 | 1 |
| Beryllium | <0.27 | | 1.0 | 0.27 | ug/L | | 10/19/21 09:15 | 10/28/21 20:50 | 1 |
| Boron | 10000 | | 400 | 230 | ug/L | | 10/19/21 09:15 | 10/29/21 11:47 | 4 |
| Cadmium | 0.12 | | 0.10 | 0.051 | ug/L | | 10/19/21 09:15 | 10/28/21 20:50 | 1 |
| Calcium | 160 | | 0.50 | 0.19 | mg/L | | 10/19/21 09:15 | 10/28/21 20:50 | 1 |
| Chromium | <1.1 | | 5.0 | 1.1 | ug/L | | 10/19/21 09:15 | 10/28/21 20:50 | 1 |
| Cobalt | 0.27 J | | 0.50 | 0.19 | ug/L | | 10/19/21 09:15 | 10/28/21 20:50 | 1 |
| Lead | <0.21 | | 0.50 | 0.21 | ug/L | | 10/19/21 09:15 | 10/28/21 20:50 | 1 |
| Lithium | 64 | | 10 | 2.5 | ug/L | | 10/19/21 09:15 | 10/28/21 20:50 | 1 |
| Molybdenum | 91 | | 2.0 | 1.3 | ug/L | | 10/19/21 09:15 | 10/28/21 20:50 | 1 |
| Selenium | <0.96 | | 5.0 | 0.96 | ug/L | | 10/19/21 09:15 | 10/28/21 20:50 | 1 |
| Thallium | <0.26 | | 1.0 | 0.26 | ug/L | | 10/19/21 09:15 | 10/28/21 20:50 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|------------|-----------|-----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 680 | | 50 | 26 | mg/L | | | 10/16/21 10:17 | 1 |
| pH | 7.9 | HF | 0.1 | 0.1 | SU | | | 10/16/21 10:53 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------------|---------------|-----------|----|-----|------------|---|----------|----------------|---------|
| Ground Water Elevation | 518.75 | | | | ft | | | 10/12/21 14:40 | 1 |
| Oxidation Reduction Potential | -193.7 | | | | millivolts | | | 10/12/21 14:40 | 1 |
| Oxygen, Dissolved, Client Supplied | 0.18 | | | | mg/L | | | 10/12/21 14:40 | 1 |
| pH, Field | 8.28 | | | | SU | | | 10/12/21 14:40 | 1 |
| Specific Conductance, Field | 1043 | | | | umhos/cm | | | 10/12/21 14:40 | 1 |
| Temperature, Field | 13.8 | | | | Degrees C | | | 10/12/21 14:40 | 1 |
| Turbidity, Field | 31.20 | | | | NTU | | | 10/12/21 14:40 | 1 |

Client Sample Results

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-217572-1

Client Sample ID: MW-302A

Lab Sample ID: 310-217572-3

Date Collected: 10/12/21 15:40

Matrix: Water

Date Received: 10/15/21 16:45

Method: 9056A - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------|------------|-----------|------|------|------|---|----------|----------------|---------|
| Chloride | 20 | | 5.0 | 2.2 | mg/L | | | 10/19/21 20:17 | 5 |
| Fluoride | <0.28 | | 0.50 | 0.28 | mg/L | | | 10/19/21 20:17 | 5 |
| Sulfate | 410 | | 5.0 | 2.5 | mg/L | | | 10/19/21 20:17 | 5 |

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------|-------------|-----------|------|-------|------|---|----------------|----------------|---------|
| Antimony | <1.1 | | 2.0 | 1.1 | ug/L | | 10/19/21 09:15 | 10/28/21 20:53 | 1 |
| Arsenic | 1.7 | J | 2.0 | 0.75 | ug/L | | 10/19/21 09:15 | 10/28/21 20:53 | 1 |
| Barium | 230 | | 2.0 | 0.37 | ug/L | | 10/19/21 09:15 | 10/28/21 20:53 | 1 |
| Beryllium | <0.27 | | 1.0 | 0.27 | ug/L | | 10/19/21 09:15 | 10/28/21 20:53 | 1 |
| Boron | 9000 | | 400 | 230 | ug/L | | 10/19/21 09:15 | 10/29/21 11:49 | 4 |
| Cadmium | <0.051 | | 0.10 | 0.051 | ug/L | | 10/19/21 09:15 | 10/28/21 20:53 | 1 |
| Calcium | 140 | | 0.50 | 0.19 | mg/L | | 10/19/21 09:15 | 10/28/21 20:53 | 1 |
| Chromium | <1.1 | | 5.0 | 1.1 | ug/L | | 10/19/21 09:15 | 10/28/21 20:53 | 1 |
| Cobalt | <0.19 | | 0.50 | 0.19 | ug/L | | 10/19/21 09:15 | 10/28/21 20:53 | 1 |
| Lead | <0.21 | | 0.50 | 0.21 | ug/L | | 10/19/21 09:15 | 10/28/21 20:53 | 1 |
| Lithium | 12 | | 10 | 2.5 | ug/L | | 10/19/21 09:15 | 10/28/21 20:53 | 1 |
| Molybdenum | 93 | | 2.0 | 1.3 | ug/L | | 10/19/21 09:15 | 10/28/21 20:53 | 1 |
| Selenium | <0.96 | | 5.0 | 0.96 | ug/L | | 10/19/21 09:15 | 10/28/21 20:53 | 1 |
| Thallium | <0.26 | | 1.0 | 0.26 | ug/L | | 10/19/21 09:15 | 10/28/21 20:53 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|------------|-----------|-----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 780 | | 50 | 26 | mg/L | | | 10/16/21 10:17 | 1 |
| pH | 7.3 | HF | 0.1 | 0.1 | SU | | | 10/16/21 11:29 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------------|---------------|-----------|----|-----|------------|---|----------|----------------|---------|
| Ground Water Elevation | 518.64 | | | | ft | | | 10/12/21 15:40 | 1 |
| Oxidation Reduction Potential | -115.3 | | | | millivolts | | | 10/12/21 15:40 | 1 |
| Oxygen, Dissolved, Client Supplied | 0.26 | | | | mg/L | | | 10/12/21 15:40 | 1 |
| pH, Field | 7.69 | | | | SU | | | 10/12/21 15:40 | 1 |
| Specific Conductance, Field | 1124 | | | | umhos/cm | | | 10/12/21 15:40 | 1 |
| Temperature, Field | 13.6 | | | | Degrees C | | | 10/12/21 15:40 | 1 |
| Turbidity, Field | 11.2 | | | | NTU | | | 10/12/21 15:40 | 1 |

Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-217572-1

Client Sample ID: MW-303

Lab Sample ID: 310-217572-4

Date Collected: 10/13/21 10:05

Matrix: Water

Date Received: 10/15/21 16:45

Method: 9056A - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------|------------|-----------|------|------|------|---|----------|----------------|---------|
| Chloride | 17 | | 5.0 | 2.2 | mg/L | | | 10/19/21 20:33 | 5 |
| Fluoride | <0.28 | | 0.50 | 0.28 | mg/L | | | 10/19/21 20:33 | 5 |
| Sulfate | 250 | | 5.0 | 2.5 | mg/L | | | 10/19/21 20:33 | 5 |

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------|--------------|-----------|------|-------|------|---|----------------|----------------|---------|
| Antimony | <1.1 | | 2.0 | 1.1 | ug/L | | 10/19/21 09:15 | 10/28/21 20:55 | 1 |
| Arsenic | 14 | | 2.0 | 0.75 | ug/L | | 10/19/21 09:15 | 10/28/21 20:55 | 1 |
| Barium | 360 | | 2.0 | 0.37 | ug/L | | 10/19/21 09:15 | 10/28/21 20:55 | 1 |
| Beryllium | <0.27 | | 1.0 | 0.27 | ug/L | | 10/19/21 09:15 | 10/28/21 20:55 | 1 |
| Boron | 17000 | | 1000 | 580 | ug/L | | 10/19/21 09:15 | 10/29/21 11:52 | 10 |
| Cadmium | 0.051 | J | 0.10 | 0.051 | ug/L | | 10/19/21 09:15 | 10/28/21 20:55 | 1 |
| Calcium | 130 | | 0.50 | 0.19 | mg/L | | 10/19/21 09:15 | 10/28/21 20:55 | 1 |
| Chromium | <1.1 | | 5.0 | 1.1 | ug/L | | 10/19/21 09:15 | 10/28/21 20:55 | 1 |
| Cobalt | 0.42 | J | 0.50 | 0.19 | ug/L | | 10/19/21 09:15 | 10/28/21 20:55 | 1 |
| Lead | <0.21 | | 0.50 | 0.21 | ug/L | | 10/19/21 09:15 | 10/28/21 20:55 | 1 |
| Lithium | 61 | | 10 | 2.5 | ug/L | | 10/19/21 09:15 | 10/28/21 20:55 | 1 |
| Molybdenum | 120 | | 2.0 | 1.3 | ug/L | | 10/19/21 09:15 | 10/28/21 20:55 | 1 |
| Selenium | <0.96 | | 5.0 | 0.96 | ug/L | | 10/19/21 09:15 | 10/28/21 20:55 | 1 |
| Thallium | <0.26 | | 1.0 | 0.26 | ug/L | | 10/19/21 09:15 | 10/28/21 20:55 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|------------|-----------|-----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 610 | | 50 | 26 | mg/L | | | 10/16/21 10:17 | 1 |
| pH | 7.3 | HF | 0.1 | 0.1 | SU | | | 10/16/21 11:13 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------------|---------------|-----------|----|-----|------------|---|----------|----------------|---------|
| Ground Water Elevation | 518.58 | | | | ft | | | 10/13/21 10:05 | 1 |
| Oxidation Reduction Potential | -118.4 | | | | millivolts | | | 10/13/21 10:05 | 1 |
| Oxygen, Dissolved, Client Supplied | 0.16 | | | | mg/L | | | 10/13/21 10:05 | 1 |
| pH, Field | 7.25 | | | | SU | | | 10/13/21 10:05 | 1 |
| Specific Conductance, Field | 843 | | | | umhos/cm | | | 10/13/21 10:05 | 1 |
| Temperature, Field | 13.9 | | | | Degrees C | | | 10/13/21 10:05 | 1 |
| Turbidity, Field | 13.6 | | | | NTU | | | 10/13/21 10:05 | 1 |

Client Sample Results

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-217572-1

Client Sample ID: MW-304

Lab Sample ID: 310-217572-5

Date Collected: 10/13/21 11:50

Matrix: Water

Date Received: 10/15/21 16:45

Method: 9056A - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------|------------|-----------|------|------|------|---|----------|----------------|---------|
| Chloride | 23 | | 5.0 | 2.2 | mg/L | | | 10/19/21 20:48 | 5 |
| Fluoride | <0.28 | | 0.50 | 0.28 | mg/L | | | 10/19/21 20:48 | 5 |
| Sulfate | 220 | | 5.0 | 2.5 | mg/L | | | 10/19/21 20:48 | 5 |

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------|-------------|-----------|------|-------|------|---|----------------|----------------|---------|
| Antimony | <1.1 | | 2.0 | 1.1 | ug/L | | 10/19/21 09:15 | 10/28/21 20:58 | 1 |
| Arsenic | 32 | | 2.0 | 0.75 | ug/L | | 10/19/21 09:15 | 10/28/21 20:58 | 1 |
| Barium | 160 | | 2.0 | 0.37 | ug/L | | 10/19/21 09:15 | 10/28/21 20:58 | 1 |
| Beryllium | <0.27 | | 1.0 | 0.27 | ug/L | | 10/19/21 09:15 | 10/28/21 20:58 | 1 |
| Boron | 7600 | | 400 | 230 | ug/L | | 10/19/21 09:15 | 10/29/21 11:55 | 4 |
| Cadmium | <0.051 | | 0.10 | 0.051 | ug/L | | 10/19/21 09:15 | 10/28/21 20:58 | 1 |
| Calcium | 130 | | 0.50 | 0.19 | mg/L | | 10/19/21 09:15 | 10/28/21 20:58 | 1 |
| Chromium | <1.1 | | 5.0 | 1.1 | ug/L | | 10/19/21 09:15 | 10/28/21 20:58 | 1 |
| Cobalt | <0.19 | | 0.50 | 0.19 | ug/L | | 10/19/21 09:15 | 10/28/21 20:58 | 1 |
| Lead | <0.21 | | 0.50 | 0.21 | ug/L | | 10/19/21 09:15 | 10/28/21 20:58 | 1 |
| Lithium | 60 | | 10 | 2.5 | ug/L | | 10/19/21 09:15 | 10/28/21 20:58 | 1 |
| Molybdenum | 59 | | 2.0 | 1.3 | ug/L | | 10/19/21 09:15 | 10/28/21 20:58 | 1 |
| Selenium | <0.96 | | 5.0 | 0.96 | ug/L | | 10/19/21 09:15 | 10/28/21 20:58 | 1 |
| Thallium | <0.26 | | 1.0 | 0.26 | ug/L | | 10/19/21 09:15 | 10/28/21 20:58 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|------------|-----------|-----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 570 | | 50 | 26 | mg/L | | | 10/16/21 10:17 | 1 |
| pH | 8.0 | HF | 0.1 | 0.1 | SU | | | 10/16/21 11:33 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------------|---------------|-----------|----|-----|------------|---|----------|----------------|---------|
| Ground Water Elevation | 518.68 | | | | ft | | | 10/13/21 11:50 | 1 |
| Oxidation Reduction Potential | -149.0 | | | | millivolts | | | 10/13/21 11:50 | 1 |
| Oxygen, Dissolved, Client Supplied | 0.15 | | | | mg/L | | | 10/13/21 11:50 | 1 |
| pH, Field | 7.53 | | | | SU | | | 10/13/21 11:50 | 1 |
| Specific Conductance, Field | 806 | | | | umhos/cm | | | 10/13/21 11:50 | 1 |
| Temperature, Field | 14.5 | | | | Degrees C | | | 10/13/21 11:50 | 1 |
| Turbidity, Field | 7.7 | | | | NTU | | | 10/13/21 11:50 | 1 |

Client Sample Results

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-217572-1

Client Sample ID: MW-305

Lab Sample ID: 310-217572-6

Date Collected: 10/14/21 12:30

Matrix: Water

Date Received: 10/15/21 16:45

Method: 9056A - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|------|------|---|----------|----------------|---------|
| Chloride | 34 | | 5.0 | 2.2 | mg/L | | | 10/19/21 21:04 | 5 |
| Fluoride | 0.31 | J | 0.50 | 0.28 | mg/L | | | 10/19/21 21:04 | 5 |
| Sulfate | 52 | | 5.0 | 2.5 | mg/L | | | 10/19/21 21:04 | 5 |

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Antimony | <1.1 | | 2.0 | 1.1 | ug/L | | 10/19/21 09:15 | 10/28/21 21:00 | 1 |
| Arsenic | <0.75 | | 2.0 | 0.75 | ug/L | | 10/19/21 09:15 | 10/28/21 21:00 | 1 |
| Barium | 240 | | 2.0 | 0.37 | ug/L | | 10/19/21 09:15 | 10/28/21 21:00 | 1 |
| Beryllium | <0.27 | | 1.0 | 0.27 | ug/L | | 10/19/21 09:15 | 10/28/21 21:00 | 1 |
| Boron | 2400 | | 100 | 58 | ug/L | | 10/19/21 09:15 | 10/28/21 21:00 | 1 |
| Cadmium | <0.051 | | 0.10 | 0.051 | ug/L | | 10/19/21 09:15 | 10/28/21 21:00 | 1 |
| Calcium | 130 | | 0.50 | 0.19 | mg/L | | 10/19/21 09:15 | 10/28/21 21:00 | 1 |
| Chromium | <1.1 | | 5.0 | 1.1 | ug/L | | 10/19/21 09:15 | 10/28/21 21:00 | 1 |
| Cobalt | 0.21 | J | 0.50 | 0.19 | ug/L | | 10/19/21 09:15 | 10/28/21 21:00 | 1 |
| Lead | <0.21 | | 0.50 | 0.21 | ug/L | | 10/19/21 09:15 | 10/28/21 21:00 | 1 |
| Lithium | 32 | | 10 | 2.5 | ug/L | | 10/19/21 09:15 | 10/28/21 21:00 | 1 |
| Molybdenum | <1.3 | | 2.0 | 1.3 | ug/L | | 10/19/21 09:15 | 10/28/21 21:00 | 1 |
| Selenium | <0.96 | | 5.0 | 0.96 | ug/L | | 10/19/21 09:15 | 10/28/21 21:00 | 1 |
| Thallium | <0.26 | | 1.0 | 0.26 | ug/L | | 10/19/21 09:15 | 10/28/21 21:00 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 570 | | 50 | 26 | mg/L | | | 10/19/21 15:07 | 1 |
| pH | 7.4 | HF | 0.1 | 0.1 | SU | | | 10/16/21 10:40 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|--------|-----------|----|-----|------------|---|----------|----------------|---------|
| Ground Water Elevation | 519.18 | | | | ft | | | 10/14/21 12:30 | 1 |
| Oxidation Reduction Potential | -95.1 | | | | millivolts | | | 10/14/21 12:30 | 1 |
| Oxygen, Dissolved, Client Supplied | 0.17 | | | | mg/L | | | 10/14/21 12:30 | 1 |
| pH, Field | 7.24 | | | | SU | | | 10/14/21 12:30 | 1 |
| Specific Conductance, Field | 911 | | | | umhos/cm | | | 10/14/21 12:30 | 1 |
| Temperature, Field | 14.7 | | | | Degrees C | | | 10/14/21 12:30 | 1 |
| Turbidity, Field | 9.0 | | | | NTU | | | 10/14/21 12:30 | 1 |

Client Sample Results

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-217572-1

Client Sample ID: MW-306

Lab Sample ID: 310-217572-7

Date Collected: 10/11/21 14:00

Matrix: Water

Date Received: 10/15/21 16:45

Method: 9056A - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------|------------|-----------|------|------|------|---|----------|----------------|---------|
| Chloride | 19 | | 5.0 | 2.2 | mg/L | | | 10/19/21 21:50 | 5 |
| Fluoride | <0.28 | | 0.50 | 0.28 | mg/L | | | 10/19/21 21:50 | 5 |
| Sulfate | 120 | | 5.0 | 2.5 | mg/L | | | 10/19/21 21:50 | 5 |

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------|-------------|-----------|------|-------|------|---|----------------|----------------|---------|
| Antimony | <1.1 | | 2.0 | 1.1 | ug/L | | 10/19/21 09:15 | 10/28/21 21:03 | 1 |
| Arsenic | 43 | | 2.0 | 0.75 | ug/L | | 10/19/21 09:15 | 10/28/21 21:03 | 1 |
| Barium | 17 | | 2.0 | 0.37 | ug/L | | 10/19/21 09:15 | 10/28/21 21:03 | 1 |
| Beryllium | <0.27 | | 1.0 | 0.27 | ug/L | | 10/19/21 09:15 | 10/28/21 21:03 | 1 |
| Boron | 2800 | | 100 | 58 | ug/L | | 10/19/21 09:15 | 10/28/21 21:03 | 1 |
| Cadmium | <0.051 | | 0.10 | 0.051 | ug/L | | 10/19/21 09:15 | 10/28/21 21:03 | 1 |
| Calcium | 42 | | 0.50 | 0.19 | mg/L | | 10/19/21 09:15 | 10/28/21 21:03 | 1 |
| Chromium | <1.1 | | 5.0 | 1.1 | ug/L | | 10/19/21 09:15 | 10/28/21 21:03 | 1 |
| Cobalt | <0.19 | | 0.50 | 0.19 | ug/L | | 10/19/21 09:15 | 10/28/21 21:03 | 1 |
| Lead | 0.26 | J | 0.50 | 0.21 | ug/L | | 10/19/21 09:15 | 10/28/21 21:03 | 1 |
| Lithium | 41 | | 10 | 2.5 | ug/L | | 10/19/21 09:15 | 10/28/21 21:03 | 1 |
| Molybdenum | 69 | | 2.0 | 1.3 | ug/L | | 10/19/21 09:15 | 10/28/21 21:03 | 1 |
| Selenium | 1.2 | J | 5.0 | 0.96 | ug/L | | 10/19/21 09:15 | 10/28/21 21:03 | 1 |
| Thallium | <0.26 | | 1.0 | 0.26 | ug/L | | 10/19/21 09:15 | 10/28/21 21:03 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|------------|-----------|-----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 250 | | 50 | 26 | mg/L | | | 10/16/21 10:17 | 1 |
| pH | 6.2 | HF | 0.1 | 0.1 | SU | | | 10/16/21 11:33 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------------|---------------|-----------|----|-----|------------|---|----------|----------------|---------|
| Ground Water Elevation | 519.15 | | | | ft | | | 10/11/21 14:00 | 1 |
| Oxidation Reduction Potential | 12.3 | | | | millivolts | | | 10/11/21 14:00 | 1 |
| Oxygen, Dissolved, Client Supplied | 0.28 | | | | mg/L | | | 10/11/21 14:00 | 1 |
| pH, Field | 5.83 | | | | SU | | | 10/11/21 14:00 | 1 |
| Specific Conductance, Field | 476.1 | | | | umhos/cm | | | 10/11/21 14:00 | 1 |
| Temperature, Field | 16.0 | | | | Degrees C | | | 10/11/21 14:00 | 1 |
| Turbidity, Field | 6.9 | | | | NTU | | | 10/11/21 14:00 | 1 |

Client Sample Results

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-217572-1

Client Sample ID: MW-307

Lab Sample ID: 310-217572-8

Date Collected: 10/11/21 15:35

Matrix: Water

Date Received: 10/15/21 16:45

Method: 9056A - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------|------------|-----------|------|------|------|---|----------|----------------|---------|
| Chloride | 19 | | 5.0 | 2.2 | mg/L | | | 10/19/21 22:07 | 5 |
| Fluoride | <0.28 | | 0.50 | 0.28 | mg/L | | | 10/19/21 22:07 | 5 |
| Sulfate | 170 | | 5.0 | 2.5 | mg/L | | | 10/19/21 22:07 | 5 |

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------|-------------|-----------|------|-------|------|---|----------------|----------------|---------|
| Antimony | <1.1 | | 2.0 | 1.1 | ug/L | | 10/19/21 09:15 | 10/28/21 21:05 | 1 |
| Arsenic | 34 | | 2.0 | 0.75 | ug/L | | 10/19/21 09:15 | 10/28/21 21:05 | 1 |
| Barium | 39 | | 2.0 | 0.37 | ug/L | | 10/19/21 09:15 | 10/28/21 21:05 | 1 |
| Beryllium | <0.27 | | 1.0 | 0.27 | ug/L | | 10/19/21 09:15 | 10/28/21 21:05 | 1 |
| Boron | 3000 | | 100 | 58 | ug/L | | 10/19/21 09:15 | 10/28/21 21:05 | 1 |
| Cadmium | <0.051 | | 0.10 | 0.051 | ug/L | | 10/19/21 09:15 | 10/28/21 21:05 | 1 |
| Calcium | 42 | | 0.50 | 0.19 | mg/L | | 10/19/21 09:15 | 10/28/21 21:05 | 1 |
| Chromium | <1.1 | | 5.0 | 1.1 | ug/L | | 10/19/21 09:15 | 10/28/21 21:05 | 1 |
| Cobalt | <0.19 | | 0.50 | 0.19 | ug/L | | 10/19/21 09:15 | 10/28/21 21:05 | 1 |
| Lead | <0.21 | | 0.50 | 0.21 | ug/L | | 10/19/21 09:15 | 10/28/21 21:05 | 1 |
| Lithium | 52 | | 10 | 2.5 | ug/L | | 10/19/21 09:15 | 10/28/21 21:05 | 1 |
| Molybdenum | 85 | | 2.0 | 1.3 | ug/L | | 10/19/21 09:15 | 10/28/21 21:05 | 1 |
| Selenium | <0.96 | | 5.0 | 0.96 | ug/L | | 10/19/21 09:15 | 10/28/21 21:05 | 1 |
| Thallium | <0.26 | | 1.0 | 0.26 | ug/L | | 10/19/21 09:15 | 10/28/21 21:05 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|-------------|-----------|-----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 280 | | 50 | 26 | mg/L | | | 10/16/21 10:17 | 1 |
| pH | 10.2 | HF | 0.1 | 0.1 | SU | | | 10/16/21 11:32 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------------|---------------|-----------|----|-----|------------|---|----------|----------------|---------|
| Ground Water Elevation | 519.55 | | | | ft | | | 10/11/21 15:35 | 1 |
| Oxidation Reduction Potential | -215.3 | | | | millivolts | | | 10/11/21 15:35 | 1 |
| Oxygen, Dissolved, Client Supplied | 0.16 | | | | mg/L | | | 10/11/21 15:35 | 1 |
| pH, Field | 9.89 | | | | SU | | | 10/11/21 15:35 | 1 |
| Specific Conductance, Field | 547.9 | | | | umhos/cm | | | 10/11/21 15:35 | 1 |
| Temperature, Field | 14.4 | | | | Degrees C | | | 10/11/21 15:35 | 1 |
| Turbidity, Field | 8.2 | | | | NTU | | | 10/11/21 15:35 | 1 |

Client Sample Results

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-217572-1

Client Sample ID: MW-307A

Lab Sample ID: 310-217572-9

Date Collected: 10/11/21 17:50

Matrix: Water

Date Received: 10/15/21 16:45

Method: 9056A - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|------|------|---|----------|----------------|---------|
| Chloride | 31 | | 5.0 | 2.2 | mg/L | | | 10/19/21 22:23 | 5 |
| Fluoride | <0.28 | | 0.50 | 0.28 | mg/L | | | 10/19/21 22:23 | 5 |
| Sulfate | 140 | | 5.0 | 2.5 | mg/L | | | 10/19/21 22:23 | 5 |

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Antimony | <1.1 | | 2.0 | 1.1 | ug/L | | 10/19/21 09:15 | 10/28/21 21:08 | 1 |
| Arsenic | <0.75 | | 2.0 | 0.75 | ug/L | | 10/19/21 09:15 | 10/28/21 21:08 | 1 |
| Barium | 43 | | 2.0 | 0.37 | ug/L | | 10/19/21 09:15 | 10/28/21 21:08 | 1 |
| Beryllium | <0.27 | | 1.0 | 0.27 | ug/L | | 10/19/21 09:15 | 10/28/21 21:08 | 1 |
| Boron | 4300 | | 100 | 58 | ug/L | | 10/19/21 09:15 | 10/28/21 21:08 | 1 |
| Cadmium | 0.069 | J | 0.10 | 0.051 | ug/L | | 10/19/21 09:15 | 10/28/21 21:08 | 1 |
| Calcium | 10 | | 0.50 | 0.19 | mg/L | | 10/19/21 09:15 | 10/28/21 21:08 | 1 |
| Chromium | <1.1 | | 5.0 | 1.1 | ug/L | | 10/19/21 09:15 | 10/28/21 21:08 | 1 |
| Cobalt | <0.19 | | 0.50 | 0.19 | ug/L | | 10/19/21 09:15 | 10/28/21 21:08 | 1 |
| Lead | 0.77 | | 0.50 | 0.21 | ug/L | | 10/19/21 09:15 | 10/28/21 21:08 | 1 |
| Lithium | 7.7 | J | 10 | 2.5 | ug/L | | 10/19/21 09:15 | 10/28/21 21:08 | 1 |
| Molybdenum | 110 | | 2.0 | 1.3 | ug/L | | 10/19/21 09:15 | 10/28/21 21:08 | 1 |
| Selenium | <0.96 | | 5.0 | 0.96 | ug/L | | 10/19/21 09:15 | 10/28/21 21:08 | 1 |
| Thallium | <0.26 | | 1.0 | 0.26 | ug/L | | 10/19/21 09:15 | 10/28/21 21:08 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 310 | | 50 | 26 | mg/L | | | 10/16/21 10:17 | 1 |
| pH | 7.8 | HF | 0.1 | 0.1 | SU | | | 10/16/21 11:12 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|--------|-----------|----|-----|------------|---|----------|----------------|---------|
| Ground Water Elevation | 519.09 | | | | ft | | | 10/11/21 17:50 | 1 |
| Oxidation Reduction Potential | -133.4 | | | | millivolts | | | 10/11/21 17:50 | 1 |
| Oxygen, Dissolved, Client Supplied | 0.12 | | | | mg/L | | | 10/11/21 17:50 | 1 |
| pH, Field | 7.83 | | | | SU | | | 10/11/21 17:50 | 1 |
| Specific Conductance, Field | 551.0 | | | | umhos/cm | | | 10/11/21 17:50 | 1 |
| Temperature, Field | 14.4 | | | | Degrees C | | | 10/11/21 17:50 | 1 |
| Turbidity, Field | 7.40 | | | | NTU | | | 10/11/21 17:50 | 1 |

Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-217572-1

Client Sample ID: MW-307B

Lab Sample ID: 310-217572-10

Date Collected: 10/11/21 17:00

Matrix: Water

Date Received: 10/15/21 16:45

Method: 9056A - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------|-----------|-----------|------|------|------|---|----------|----------------|---------|
| Chloride | 18 | | 5.0 | 2.2 | mg/L | | | 10/19/21 22:39 | 5 |
| Fluoride | <0.28 | | 0.50 | 0.28 | mg/L | | | 10/19/21 22:39 | 5 |
| Sulfate | 77 | | 5.0 | 2.5 | mg/L | | | 10/19/21 22:39 | 5 |

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------|--------------|-----------|------|-------|------|---|----------------|----------------|---------|
| Antimony | <1.1 | | 2.0 | 1.1 | ug/L | | 10/19/21 09:15 | 10/28/21 21:21 | 1 |
| Arsenic | <0.75 | | 2.0 | 0.75 | ug/L | | 10/19/21 09:15 | 10/28/21 21:21 | 1 |
| Barium | 310 | | 2.0 | 0.37 | ug/L | | 10/19/21 09:15 | 10/28/21 21:21 | 1 |
| Beryllium | <0.27 | | 1.0 | 0.27 | ug/L | | 10/19/21 09:15 | 10/28/21 21:21 | 1 |
| Boron | 2700 | | 100 | 58 | ug/L | | 10/19/21 09:15 | 10/28/21 21:21 | 1 |
| Cadmium | 0.065 | J | 0.10 | 0.051 | ug/L | | 10/19/21 09:15 | 10/28/21 21:21 | 1 |
| Calcium | 66 | | 0.50 | 0.19 | mg/L | | 10/19/21 09:15 | 10/28/21 21:21 | 1 |
| Chromium | <1.1 | | 5.0 | 1.1 | ug/L | | 10/19/21 09:15 | 10/28/21 21:21 | 1 |
| Cobalt | <0.19 | | 0.50 | 0.19 | ug/L | | 10/19/21 09:15 | 10/28/21 21:21 | 1 |
| Lead | <0.21 | | 0.50 | 0.21 | ug/L | | 10/19/21 09:15 | 10/28/21 21:21 | 1 |
| Lithium | 7.0 | J | 10 | 2.5 | ug/L | | 10/19/21 09:15 | 10/28/21 21:21 | 1 |
| Molybdenum | 25 | | 2.0 | 1.3 | ug/L | | 10/19/21 09:15 | 10/28/21 21:21 | 1 |
| Selenium | <0.96 | | 5.0 | 0.96 | ug/L | | 10/19/21 09:15 | 10/28/21 21:21 | 1 |
| Thallium | <0.26 | | 1.0 | 0.26 | ug/L | | 10/19/21 09:15 | 10/28/21 21:21 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|------------|-----------|-----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 230 | | 50 | 26 | mg/L | | | 10/16/21 10:17 | 1 |
| pH | 7.6 | HF | 0.1 | 0.1 | SU | | | 10/16/21 11:31 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------------|---------------|-----------|----|-----|------------|---|----------|----------------|---------|
| Ground Water Elevation | 519.13 | | | | ft | | | 10/11/21 17:00 | 1 |
| Oxidation Reduction Potential | -130.6 | | | | millivolts | | | 10/11/21 17:00 | 1 |
| Oxygen, Dissolved, Client Supplied | 0.10 | | | | mg/L | | | 10/11/21 17:00 | 1 |
| pH, Field | 7.72 | | | | SU | | | 10/11/21 17:00 | 1 |
| Specific Conductance, Field | 459.6 | | | | umhos/cm | | | 10/11/21 17:00 | 1 |
| Temperature, Field | 14.4 | | | | Degrees C | | | 10/11/21 17:00 | 1 |
| Turbidity, Field | 10.10 | | | | NTU | | | 10/11/21 17:00 | 1 |

Client Sample Results

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-217572-1

Client Sample ID: MW-308

Lab Sample ID: 310-217572-11

Date Collected: 10/12/21 13:36

Matrix: Water

Date Received: 10/15/21 16:45

Method: 9056A - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------|------------|-----------|------|------|------|---|----------|----------------|---------|
| Chloride | 41 | | 5.0 | 2.2 | mg/L | | | 10/19/21 22:56 | 5 |
| Fluoride | <0.28 | | 0.50 | 0.28 | mg/L | | | 10/19/21 22:56 | 5 |
| Sulfate | 190 | | 5.0 | 2.5 | mg/L | | | 10/19/21 22:56 | 5 |

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------|-------------|-----------|------|-------|------|---|----------------|----------------|---------|
| Antimony | <1.1 | | 2.0 | 1.1 | ug/L | | 10/19/21 09:15 | 10/28/21 21:24 | 1 |
| Arsenic | 59 | | 2.0 | 0.75 | ug/L | | 10/19/21 09:15 | 10/28/21 21:24 | 1 |
| Barium | 82 | | 2.0 | 0.37 | ug/L | | 10/19/21 09:15 | 10/28/21 21:24 | 1 |
| Beryllium | <0.27 | | 1.0 | 0.27 | ug/L | | 10/19/21 09:15 | 10/28/21 21:24 | 1 |
| Boron | 3900 | | 100 | 58 | ug/L | | 10/19/21 09:15 | 10/28/21 21:24 | 1 |
| Cadmium | <0.051 | | 0.10 | 0.051 | ug/L | | 10/19/21 09:15 | 10/28/21 21:24 | 1 |
| Calcium | 38 | | 0.50 | 0.19 | mg/L | | 10/19/21 09:15 | 10/28/21 21:24 | 1 |
| Chromium | <1.1 | | 5.0 | 1.1 | ug/L | | 10/19/21 09:15 | 10/28/21 21:24 | 1 |
| Cobalt | <0.19 | | 0.50 | 0.19 | ug/L | | 10/19/21 09:15 | 10/28/21 21:24 | 1 |
| Lead | <0.21 | | 0.50 | 0.21 | ug/L | | 10/19/21 09:15 | 10/28/21 21:24 | 1 |
| Lithium | 58 | | 10 | 2.5 | ug/L | | 10/19/21 09:15 | 10/28/21 21:24 | 1 |
| Molybdenum | 81 | | 2.0 | 1.3 | ug/L | | 10/19/21 09:15 | 10/28/21 21:24 | 1 |
| Selenium | <0.96 | | 5.0 | 0.96 | ug/L | | 10/19/21 09:15 | 10/28/21 21:24 | 1 |
| Thallium | <0.26 | | 1.0 | 0.26 | ug/L | | 10/19/21 09:15 | 10/28/21 21:24 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|-------------|-----------|-----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 410 | | 50 | 26 | mg/L | | | 10/16/21 10:17 | 1 |
| pH | 10.0 | HF | 0.1 | 0.1 | SU | | | 10/16/21 11:05 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------------|---------------|-----------|----|-----|------------|---|----------|----------------|---------|
| Ground Water Elevation | 519.25 | | | | ft | | | 10/12/21 13:36 | 1 |
| Oxidation Reduction Potential | -219.8 | | | | millivolts | | | 10/12/21 13:36 | 1 |
| Oxygen, Dissolved, Client Supplied | 0.06 | | | | mg/L | | | 10/12/21 13:36 | 1 |
| pH, Field | 9.97 | | | | SU | | | 10/12/21 13:36 | 1 |
| Specific Conductance, Field | 728 | | | | umhos/cm | | | 10/12/21 13:36 | 1 |
| Temperature, Field | 15.0 | | | | Degrees C | | | 10/12/21 13:36 | 1 |
| Turbidity, Field | 8.8 | | | | NTU | | | 10/12/21 13:36 | 1 |

Client Sample Results

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-217572-1

Client Sample ID: MW-309

Lab Sample ID: 310-217572-12

Date Collected: 10/12/21 12:20

Matrix: Water

Date Received: 10/15/21 16:45

Method: 9056A - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|------|------|---|----------|----------------|---------|
| Chloride | 79 | | 5.0 | 2.2 | mg/L | | | 10/19/21 23:12 | 5 |
| Fluoride | 0.39 | J | 0.50 | 0.28 | mg/L | | | 10/19/21 23:12 | 5 |
| Sulfate | 120 | | 5.0 | 2.5 | mg/L | | | 10/19/21 23:12 | 5 |

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Antimony | <1.1 | | 2.0 | 1.1 | ug/L | | 10/19/21 09:15 | 10/28/21 21:29 | 1 |
| Arsenic | 24 | | 2.0 | 0.75 | ug/L | | 10/19/21 09:15 | 10/28/21 21:29 | 1 |
| Barium | 370 | | 2.0 | 0.37 | ug/L | | 10/19/21 09:15 | 10/28/21 21:29 | 1 |
| Beryllium | <0.27 | | 1.0 | 0.27 | ug/L | | 10/19/21 09:15 | 10/28/21 21:29 | 1 |
| Boron | 4400 | | 100 | 58 | ug/L | | 10/19/21 09:15 | 10/28/21 21:29 | 1 |
| Cadmium | <0.051 | | 0.10 | 0.051 | ug/L | | 10/19/21 09:15 | 10/28/21 21:29 | 1 |
| Calcium | 71 | | 0.50 | 0.19 | mg/L | | 10/19/21 09:15 | 10/28/21 21:29 | 1 |
| Chromium | <1.1 | | 5.0 | 1.1 | ug/L | | 10/19/21 09:15 | 10/28/21 21:29 | 1 |
| Cobalt | 0.29 | J | 0.50 | 0.19 | ug/L | | 10/19/21 09:15 | 10/28/21 21:29 | 1 |
| Lead | <0.21 | | 0.50 | 0.21 | ug/L | | 10/19/21 09:15 | 10/28/21 21:29 | 1 |
| Lithium | 2.8 | J | 10 | 2.5 | ug/L | | 10/19/21 09:15 | 10/28/21 21:29 | 1 |
| Molybdenum | 39 | | 2.0 | 1.3 | ug/L | | 10/19/21 09:15 | 10/28/21 21:29 | 1 |
| Selenium | <0.96 | | 5.0 | 0.96 | ug/L | | 10/19/21 09:15 | 10/28/21 21:29 | 1 |
| Thallium | <0.26 | | 1.0 | 0.26 | ug/L | | 10/19/21 09:15 | 10/28/21 21:29 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 470 | | 50 | 26 | mg/L | | | 10/16/21 10:17 | 1 |
| pH | 7.2 | HF | 0.1 | 0.1 | SU | | | 10/16/21 11:04 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|--------|-----------|----|-----|------------|---|----------|----------------|---------|
| Ground Water Elevation | 519.43 | | | | ft | | | 10/12/21 12:20 | 1 |
| Oxidation Reduction Potential | -155.1 | | | | millivolts | | | 10/12/21 12:20 | 1 |
| Oxygen, Dissolved, Client Supplied | 0.17 | | | | mg/L | | | 10/12/21 12:20 | 1 |
| pH, Field | 7.18 | | | | SU | | | 10/12/21 12:20 | 1 |
| Specific Conductance, Field | 927 | | | | umhos/cm | | | 10/12/21 12:20 | 1 |
| Temperature, Field | 15.3 | | | | Degrees C | | | 10/12/21 12:20 | 1 |
| Turbidity, Field | 19.6 | | | | NTU | | | 10/12/21 12:20 | 1 |

Client Sample Results

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-217572-1

Client Sample ID: MW-310A

Lab Sample ID: 310-217572-13

Date Collected: 10/14/21 09:30

Matrix: Water

Date Received: 10/15/21 16:45

Method: 9056A - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|------|------|---|----------|----------------|---------|
| Chloride | 14 | | 5.0 | 2.2 | mg/L | | | 10/19/21 23:29 | 5 |
| Fluoride | 0.75 | | 0.50 | 0.28 | mg/L | | | 10/19/21 23:29 | 5 |
| Sulfate | 99 | | 5.0 | 2.5 | mg/L | | | 10/19/21 23:29 | 5 |

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Antimony | <1.1 | | 2.0 | 1.1 | ug/L | | 10/19/21 09:15 | 10/28/21 21:31 | 1 |
| Arsenic | 3.6 | | 2.0 | 0.75 | ug/L | | 10/19/21 09:15 | 10/28/21 21:31 | 1 |
| Barium | 64 | | 2.0 | 0.37 | ug/L | | 10/19/21 09:15 | 10/28/21 21:31 | 1 |
| Beryllium | <0.27 | | 1.0 | 0.27 | ug/L | | 10/19/21 09:15 | 10/28/21 21:31 | 1 |
| Boron | 940 | | 100 | 58 | ug/L | | 10/19/21 09:15 | 10/28/21 21:31 | 1 |
| Cadmium | <0.051 | | 0.10 | 0.051 | ug/L | | 10/19/21 09:15 | 10/28/21 21:31 | 1 |
| Calcium | 51 | | 0.50 | 0.19 | mg/L | | 10/19/21 09:15 | 10/28/21 21:31 | 1 |
| Chromium | <1.1 | | 5.0 | 1.1 | ug/L | | 10/19/21 09:15 | 10/28/21 21:31 | 1 |
| Cobalt | 3.0 | | 0.50 | 0.19 | ug/L | | 10/19/21 09:15 | 10/28/21 21:31 | 1 |
| Lead | 3.3 | | 0.50 | 0.21 | ug/L | | 10/19/21 09:15 | 10/28/21 21:31 | 1 |
| Lithium | 34 | | 10 | 2.5 | ug/L | | 10/19/21 09:15 | 10/28/21 21:31 | 1 |
| Molybdenum | 20 | | 2.0 | 1.3 | ug/L | | 10/19/21 09:15 | 10/28/21 21:31 | 1 |
| Selenium | <0.96 | | 5.0 | 0.96 | ug/L | | 10/19/21 09:15 | 10/28/21 21:31 | 1 |
| Thallium | <0.26 | | 1.0 | 0.26 | ug/L | | 10/19/21 09:15 | 10/28/21 21:31 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 520 | | 50 | 26 | mg/L | | | 10/19/21 15:07 | 1 |
| pH | 6.5 | HF | 0.1 | 0.1 | SU | | | 10/16/21 10:41 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|--------|-----------|----|-----|------------|---|----------|----------------|---------|
| Ground Water Elevation | 521.83 | | | | ft | | | 10/14/21 09:30 | 1 |
| Oxidation Reduction Potential | 153.3 | | | | millivolts | | | 10/14/21 09:30 | 1 |
| Oxygen, Dissolved, Client Supplied | 2.04 | | | | mg/L | | | 10/14/21 09:30 | 1 |
| pH, Field | 7.07 | | | | SU | | | 10/14/21 09:30 | 1 |
| Specific Conductance, Field | 842 | | | | umhos/cm | | | 10/14/21 09:30 | 1 |
| Temperature, Field | 15.5 | | | | Degrees C | | | 10/14/21 09:30 | 1 |
| Turbidity, Field | 80 | | | | NTU | | | 10/14/21 09:30 | 1 |

Client Sample Results

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-217572-1

Client Sample ID: MW-310

Lab Sample ID: 310-217572-14

Date Collected: 10/12/21 09:15

Matrix: Water

Date Received: 10/15/21 16:45

Method: 9056A - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------|-----------|-----------|------|------|------|---|----------|----------------|---------|
| Chloride | 14 | | 5.0 | 2.2 | mg/L | | | 10/19/21 23:45 | 5 |
| Fluoride | <0.28 | | 0.50 | 0.28 | mg/L | | | 10/19/21 23:45 | 5 |
| Sulfate | 55 | | 5.0 | 2.5 | mg/L | | | 10/19/21 23:45 | 5 |

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------|------------|-----------|------|-------|------|---|----------------|----------------|---------|
| Antimony | <1.1 | | 2.0 | 1.1 | ug/L | | 10/19/21 09:15 | 10/28/21 21:34 | 1 |
| Arsenic | 63 | | 2.0 | 0.75 | ug/L | | 10/19/21 09:15 | 10/28/21 21:34 | 1 |
| Barium | 290 | | 2.0 | 0.37 | ug/L | | 10/19/21 09:15 | 10/28/21 21:34 | 1 |
| Beryllium | <0.27 | | 1.0 | 0.27 | ug/L | | 10/19/21 09:15 | 10/28/21 21:34 | 1 |
| Boron | 310 | | 100 | 58 | ug/L | | 10/19/21 09:15 | 10/28/21 21:34 | 1 |
| Cadmium | <0.051 | | 0.10 | 0.051 | ug/L | | 10/19/21 09:15 | 10/28/21 21:34 | 1 |
| Calcium | 84 | | 0.50 | 0.19 | mg/L | | 10/19/21 09:15 | 10/28/21 21:34 | 1 |
| Chromium | <1.1 | | 5.0 | 1.1 | ug/L | | 10/19/21 09:15 | 10/28/21 21:34 | 1 |
| Cobalt | 1.4 | | 0.50 | 0.19 | ug/L | | 10/19/21 09:15 | 10/28/21 21:34 | 1 |
| Lead | <0.21 | | 0.50 | 0.21 | ug/L | | 10/19/21 09:15 | 10/28/21 21:34 | 1 |
| Lithium | <2.5 | | 10 | 2.5 | ug/L | | 10/19/21 09:15 | 10/28/21 21:34 | 1 |
| Molybdenum | 4.9 | | 2.0 | 1.3 | ug/L | | 10/19/21 09:15 | 10/28/21 21:34 | 1 |
| Selenium | <0.96 | | 5.0 | 0.96 | ug/L | | 10/19/21 09:15 | 10/28/21 21:34 | 1 |
| Thallium | <0.26 | | 1.0 | 0.26 | ug/L | | 10/19/21 09:15 | 10/28/21 21:34 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|------------|-----------|-----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 280 | | 50 | 26 | mg/L | | | 10/16/21 10:17 | 1 |
| pH | 7.2 | HF | 0.1 | 0.1 | SU | | | 10/16/21 11:01 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------------|---------------|-----------|----|-----|------------|---|----------|----------------|---------|
| Ground Water Elevation | 524.69 | | | | ft | | | 10/12/21 09:15 | 1 |
| Oxidation Reduction Potential | -181.6 | | | | millivolts | | | 10/12/21 09:15 | 1 |
| Oxygen, Dissolved, Client Supplied | 0.18 | | | | mg/L | | | 10/12/21 09:15 | 1 |
| pH, Field | 7.22 | | | | SU | | | 10/12/21 09:15 | 1 |
| Specific Conductance, Field | 668 | | | | umhos/cm | | | 10/12/21 09:15 | 1 |
| Temperature, Field | 17.3 | | | | Degrees C | | | 10/12/21 09:15 | 1 |
| Turbidity, Field | 11.4 | | | | NTU | | | 10/12/21 09:15 | 1 |

Client Sample Results

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-217572-1

Client Sample ID: MW-311

Lab Sample ID: 310-217572-15

Date Collected: 10/12/21 11:00

Matrix: Water

Date Received: 10/15/21 16:45

Method: 9056A - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------|------------|-----------|------|------|------|---|----------|----------------|---------|
| Chloride | 110 | | 5.0 | 2.2 | mg/L | | | 10/20/21 00:01 | 5 |
| Fluoride | <0.28 | | 0.50 | 0.28 | mg/L | | | 10/20/21 00:01 | 5 |
| Sulfate | 190 | | 5.0 | 2.5 | mg/L | | | 10/20/21 00:01 | 5 |

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------|-------------|-----------|------|-------|------|---|----------------|----------------|---------|
| Antimony | <1.1 | | 2.0 | 1.1 | ug/L | | 10/19/21 09:15 | 10/28/21 21:37 | 1 |
| Arsenic | 22 | | 2.0 | 0.75 | ug/L | | 10/19/21 09:15 | 10/28/21 21:37 | 1 |
| Barium | 230 | | 2.0 | 0.37 | ug/L | | 10/19/21 09:15 | 10/28/21 21:37 | 1 |
| Beryllium | <0.27 | | 1.0 | 0.27 | ug/L | | 10/19/21 09:15 | 10/28/21 21:37 | 1 |
| Boron | 1800 | | 100 | 58 | ug/L | | 10/19/21 09:15 | 10/28/21 21:37 | 1 |
| Cadmium | <0.051 | | 0.10 | 0.051 | ug/L | | 10/19/21 09:15 | 10/28/21 21:37 | 1 |
| Calcium | 160 | | 0.50 | 0.19 | mg/L | | 10/19/21 09:15 | 10/28/21 21:37 | 1 |
| Chromium | <1.1 | | 5.0 | 1.1 | ug/L | | 10/19/21 09:15 | 10/28/21 21:37 | 1 |
| Cobalt | 0.31 | J | 0.50 | 0.19 | ug/L | | 10/19/21 09:15 | 10/28/21 21:37 | 1 |
| Lead | <0.21 | | 0.50 | 0.21 | ug/L | | 10/19/21 09:15 | 10/28/21 21:37 | 1 |
| Lithium | <2.5 | | 10 | 2.5 | ug/L | | 10/19/21 09:15 | 10/28/21 21:37 | 1 |
| Molybdenum | 6.9 | | 2.0 | 1.3 | ug/L | | 10/19/21 09:15 | 10/28/21 21:37 | 1 |
| Selenium | <0.96 | | 5.0 | 0.96 | ug/L | | 10/19/21 09:15 | 10/28/21 21:37 | 1 |
| Thallium | <0.26 | | 1.0 | 0.26 | ug/L | | 10/19/21 09:15 | 10/28/21 21:37 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|------------|-----------|-----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 750 | | 50 | 26 | mg/L | | | 10/16/21 10:17 | 1 |
| pH | 7.2 | HF | 0.1 | 0.1 | SU | | | 10/16/21 11:11 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------------|---------------|-----------|----|-----|------------|---|----------|----------------|---------|
| Ground Water Elevation | 522.00 | | | | ft | | | 10/12/21 11:00 | 1 |
| Oxidation Reduction Potential | -157.6 | | | | millivolts | | | 10/12/21 11:00 | 1 |
| Oxygen, Dissolved, Client Supplied | 0.17 | | | | mg/L | | | 10/12/21 11:00 | 1 |
| pH, Field | 7.17 | | | | SU | | | 10/12/21 11:00 | 1 |
| Specific Conductance, Field | 1431 | | | | umhos/cm | | | 10/12/21 11:00 | 1 |
| Temperature, Field | 14.9 | | | | Degrees C | | | 10/12/21 11:00 | 1 |
| Turbidity, Field | 11.1 | | | | NTU | | | 10/12/21 11:00 | 1 |

Client Sample Results

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-217572-1

Client Sample ID: MW-312

Lab Sample ID: 310-217572-16

Date Collected: 10/14/21 11:10

Matrix: Water

Date Received: 10/15/21 16:45

Method: 9056A - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------|------------|-----------|------|------|------|---|----------|----------------|---------|
| Chloride | 24 | | 5.0 | 2.2 | mg/L | | | 10/20/21 00:18 | 5 |
| Fluoride | <0.28 | | 0.50 | 0.28 | mg/L | | | 10/20/21 00:18 | 5 |
| Sulfate | 190 | | 5.0 | 2.5 | mg/L | | | 10/20/21 00:18 | 5 |

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------|--------------|-----------|------|-------|------|---|----------------|----------------|---------|
| Antimony | <1.1 | | 2.0 | 1.1 | ug/L | | 10/19/21 09:15 | 10/28/21 21:39 | 1 |
| Arsenic | 17 | | 2.0 | 0.75 | ug/L | | 10/19/21 09:15 | 10/28/21 21:39 | 1 |
| Barium | 170 | | 2.0 | 0.37 | ug/L | | 10/19/21 09:15 | 10/28/21 21:39 | 1 |
| Beryllium | <0.27 | | 1.0 | 0.27 | ug/L | | 10/19/21 09:15 | 10/28/21 21:39 | 1 |
| Boron | 5300 | | 400 | 230 | ug/L | | 10/19/21 09:15 | 10/29/21 12:08 | 4 |
| Cadmium | 0.086 | J | 0.10 | 0.051 | ug/L | | 10/19/21 09:15 | 10/28/21 21:39 | 1 |
| Calcium | 70 | | 0.50 | 0.19 | mg/L | | 10/19/21 09:15 | 10/28/21 21:39 | 1 |
| Chromium | <1.1 | | 5.0 | 1.1 | ug/L | | 10/19/21 09:15 | 10/28/21 21:39 | 1 |
| Cobalt | 0.42 | J | 0.50 | 0.19 | ug/L | | 10/19/21 09:15 | 10/28/21 21:39 | 1 |
| Lead | <0.21 | | 0.50 | 0.21 | ug/L | | 10/19/21 09:15 | 10/28/21 21:39 | 1 |
| Lithium | 24 | | 10 | 2.5 | ug/L | | 10/19/21 09:15 | 10/28/21 21:39 | 1 |
| Molybdenum | 240 | | 2.0 | 1.3 | ug/L | | 10/19/21 09:15 | 10/28/21 21:39 | 1 |
| Selenium | <0.96 | | 5.0 | 0.96 | ug/L | | 10/19/21 09:15 | 10/28/21 21:39 | 1 |
| Thallium | <0.26 | | 1.0 | 0.26 | ug/L | | 10/19/21 09:15 | 10/28/21 21:39 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|------------|-----------|-----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 480 | | 50 | 26 | mg/L | | | 10/19/21 15:07 | 1 |
| pH | 7.2 | HF | 0.1 | 0.1 | SU | | | 10/16/21 10:47 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------------|---------------|-----------|----|-----|------------|---|----------|----------------|---------|
| Ground Water Elevation | 518.78 | | | | ft | | | 10/14/21 11:10 | 1 |
| Oxidation Reduction Potential | -143.4 | | | | millivolts | | | 10/14/21 11:10 | 1 |
| Oxygen, Dissolved, Client Supplied | 0.20 | | | | mg/L | | | 10/14/21 11:10 | 1 |
| pH, Field | 7.20 | | | | SU | | | 10/14/21 11:10 | 1 |
| Specific Conductance, Field | 688 | | | | umhos/cm | | | 10/14/21 11:10 | 1 |
| Temperature, Field | 15.7 | | | | Degrees C | | | 10/14/21 11:10 | 1 |
| Turbidity, Field | 13.1 | | | | NTU | | | 10/14/21 11:10 | 1 |

Client Sample Results

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-217572-1

Client Sample ID: MW-313

Lab Sample ID: 310-217572-17

Date Collected: 10/13/21 13:00

Matrix: Water

Date Received: 10/15/21 16:45

Method: 9056A - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|------|------|---|----------|----------------|---------|
| Chloride | 230 | | 5.0 | 2.2 | mg/L | | | 10/20/21 01:07 | 5 |
| Fluoride | 0.47 | J | 0.50 | 0.28 | mg/L | | | 10/20/21 01:07 | 5 |
| Sulfate | 230 | | 5.0 | 2.5 | mg/L | | | 10/20/21 01:07 | 5 |

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Antimony | <1.1 | | 2.0 | 1.1 | ug/L | | 10/19/21 09:15 | 10/28/21 21:42 | 1 |
| Arsenic | 4.7 | | 2.0 | 0.75 | ug/L | | 10/19/21 09:15 | 10/28/21 21:42 | 1 |
| Barium | 390 | | 2.0 | 0.37 | ug/L | | 10/19/21 09:15 | 10/28/21 21:42 | 1 |
| Beryllium | <0.27 | | 1.0 | 0.27 | ug/L | | 10/19/21 09:15 | 10/28/21 21:42 | 1 |
| Boron | 4800 | | 400 | 230 | ug/L | | 10/19/21 09:15 | 10/29/21 12:10 | 4 |
| Cadmium | 0.069 | J | 0.10 | 0.051 | ug/L | | 10/19/21 09:15 | 10/28/21 21:42 | 1 |
| Calcium | 70 | | 0.50 | 0.19 | mg/L | | 10/19/21 09:15 | 10/28/21 21:42 | 1 |
| Chromium | <1.1 | | 5.0 | 1.1 | ug/L | | 10/19/21 09:15 | 10/28/21 21:42 | 1 |
| Cobalt | <0.19 | | 0.50 | 0.19 | ug/L | | 10/19/21 09:15 | 10/28/21 21:42 | 1 |
| Lead | <0.21 | | 0.50 | 0.21 | ug/L | | 10/19/21 09:15 | 10/28/21 21:42 | 1 |
| Lithium | 18 | | 10 | 2.5 | ug/L | | 10/19/21 09:15 | 10/28/21 21:42 | 1 |
| Molybdenum | 170 | | 2.0 | 1.3 | ug/L | | 10/19/21 09:15 | 10/28/21 21:42 | 1 |
| Selenium | <0.96 | | 5.0 | 0.96 | ug/L | | 10/19/21 09:15 | 10/28/21 21:42 | 1 |
| Thallium | <0.26 | | 1.0 | 0.26 | ug/L | | 10/19/21 09:15 | 10/28/21 21:42 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 740 | | 50 | 26 | mg/L | | | 10/16/21 10:17 | 1 |
| pH | 7.0 | HF | 0.1 | 0.1 | SU | | | 10/16/21 11:09 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|--------|-----------|----|-----|------------|---|----------|----------------|---------|
| Ground Water Elevation | 518.72 | | | | ft | | | 10/13/21 13:00 | 1 |
| Oxidation Reduction Potential | -117.9 | | | | millivolts | | | 10/13/21 13:00 | 1 |
| Oxygen, Dissolved, Client Supplied | 0.10 | | | | mg/L | | | 10/13/21 13:00 | 1 |
| pH, Field | 7.25 | | | | SU | | | 10/13/21 13:00 | 1 |
| Specific Conductance, Field | 1198 | | | | umhos/cm | | | 10/13/21 13:00 | 1 |
| Temperature, Field | 15.9 | | | | Degrees C | | | 10/13/21 13:00 | 1 |
| Turbidity, Field | 24.8 | | | | NTU | | | 10/13/21 13:00 | 1 |

Client Sample Results

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-217572-1

Client Sample ID: MW-313A

Lab Sample ID: 310-217572-18

Date Collected: 10/13/21 14:00

Matrix: Water

Date Received: 10/15/21 16:45

Method: 9056A - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|------|------|---|----------|----------------|---------|
| Chloride | 100 | | 5.0 | 2.2 | mg/L | | | 10/20/21 01:23 | 5 |
| Fluoride | 0.38 | J | 0.50 | 0.28 | mg/L | | | 10/20/21 01:23 | 5 |
| Sulfate | 140 | | 5.0 | 2.5 | mg/L | | | 10/20/21 01:23 | 5 |

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Antimony | <1.1 | | 2.0 | 1.1 | ug/L | | 10/19/21 09:15 | 10/28/21 21:44 | 1 |
| Arsenic | <0.75 | | 2.0 | 0.75 | ug/L | | 10/19/21 09:15 | 10/28/21 21:44 | 1 |
| Barium | 150 | | 2.0 | 0.37 | ug/L | | 10/19/21 09:15 | 10/28/21 21:44 | 1 |
| Beryllium | <0.27 | | 1.0 | 0.27 | ug/L | | 10/19/21 09:15 | 10/28/21 21:44 | 1 |
| Boron | 3500 | | 100 | 58 | ug/L | | 10/19/21 09:15 | 10/28/21 21:44 | 1 |
| Cadmium | <0.051 | | 0.10 | 0.051 | ug/L | | 10/19/21 09:15 | 10/28/21 21:44 | 1 |
| Calcium | 30 | | 0.50 | 0.19 | mg/L | | 10/19/21 09:15 | 10/28/21 21:44 | 1 |
| Chromium | <1.1 | | 5.0 | 1.1 | ug/L | | 10/19/21 09:15 | 10/28/21 21:44 | 1 |
| Cobalt | <0.19 | | 0.50 | 0.19 | ug/L | | 10/19/21 09:15 | 10/28/21 21:44 | 1 |
| Lead | <0.21 | | 0.50 | 0.21 | ug/L | | 10/19/21 09:15 | 10/28/21 21:44 | 1 |
| Lithium | 11 | | 10 | 2.5 | ug/L | | 10/19/21 09:15 | 10/28/21 21:44 | 1 |
| Molybdenum | 100 | | 2.0 | 1.3 | ug/L | | 10/19/21 09:15 | 10/28/21 21:44 | 1 |
| Selenium | <0.96 | | 5.0 | 0.96 | ug/L | | 10/19/21 09:15 | 10/28/21 21:44 | 1 |
| Thallium | <0.26 | | 1.0 | 0.26 | ug/L | | 10/19/21 09:15 | 10/28/21 21:44 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 440 | | 50 | 26 | mg/L | | | 10/16/21 10:17 | 1 |
| pH | 7.7 | HF | 0.1 | 0.1 | SU | | | 10/16/21 11:07 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|--------|-----------|----|-----|------------|---|----------|----------------|---------|
| Ground Water Elevation | 518.62 | | | | ft | | | 10/13/21 14:00 | 1 |
| Oxidation Reduction Potential | -117.7 | | | | millivolts | | | 10/13/21 14:00 | 1 |
| Oxygen, Dissolved, Client Supplied | 0.11 | | | | mg/L | | | 10/13/21 14:00 | 1 |
| pH, Field | 7.53 | | | | SU | | | 10/13/21 14:00 | 1 |
| Specific Conductance, Field | 757 | | | | umhos/cm | | | 10/13/21 14:00 | 1 |
| Temperature, Field | 15.4 | | | | Degrees C | | | 10/13/21 14:00 | 1 |
| Turbidity, Field | 7.7 | | | | NTU | | | 10/13/21 14:00 | 1 |

Client Sample Results

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-217572-1

Client Sample ID: MW-313B

Lab Sample ID: 310-217572-19

Date Collected: 10/13/21 15:25

Matrix: Water

Date Received: 10/15/21 16:45

Method: 9056A - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|------|------|---|----------|----------------|---------|
| Chloride | 89 | | 5.0 | 2.2 | mg/L | | | 10/20/21 01:38 | 5 |
| Fluoride | <0.28 | | 0.50 | 0.28 | mg/L | | | 10/20/21 01:38 | 5 |
| Sulfate | 140 | | 5.0 | 2.5 | mg/L | | | 10/20/21 01:38 | 5 |

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Antimony | <1.1 | | 2.0 | 1.1 | ug/L | | 10/19/21 09:15 | 10/28/21 21:57 | 1 |
| Arsenic | <0.75 | | 2.0 | 0.75 | ug/L | | 10/19/21 09:15 | 10/28/21 21:57 | 1 |
| Barium | 170 | | 2.0 | 0.37 | ug/L | | 10/19/21 09:15 | 10/28/21 21:57 | 1 |
| Beryllium | <0.27 | | 1.0 | 0.27 | ug/L | | 10/19/21 09:15 | 10/28/21 21:57 | 1 |
| Boron | 4200 | | 100 | 58 | ug/L | | 10/19/21 09:15 | 10/28/21 21:57 | 1 |
| Cadmium | 0.090 | J | 0.10 | 0.051 | ug/L | | 10/19/21 09:15 | 10/28/21 21:57 | 1 |
| Calcium | 44 | | 0.50 | 0.19 | mg/L | | 10/19/21 09:15 | 10/28/21 21:57 | 1 |
| Chromium | <1.1 | | 5.0 | 1.1 | ug/L | | 10/19/21 09:15 | 10/28/21 21:57 | 1 |
| Cobalt | <0.19 | | 0.50 | 0.19 | ug/L | | 10/19/21 09:15 | 10/28/21 21:57 | 1 |
| Lead | <0.21 | | 0.50 | 0.21 | ug/L | | 10/19/21 09:15 | 10/28/21 21:57 | 1 |
| Lithium | 13 | | 10 | 2.5 | ug/L | | 10/19/21 09:15 | 10/28/21 21:57 | 1 |
| Molybdenum | 100 | | 2.0 | 1.3 | ug/L | | 10/19/21 09:15 | 10/28/21 21:57 | 1 |
| Selenium | <0.96 | | 5.0 | 0.96 | ug/L | | 10/19/21 09:15 | 10/28/21 21:57 | 1 |
| Thallium | <0.26 | | 1.0 | 0.26 | ug/L | | 10/19/21 09:15 | 10/28/21 21:57 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 420 | | 50 | 26 | mg/L | | | 10/18/21 15:21 | 1 |
| pH | 7.7 | HF | 0.1 | 0.1 | SU | | | 10/16/21 10:48 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|--------|-----------|----|-----|------------|---|----------|----------------|---------|
| Ground Water Elevation | 518.72 | | | | ft | | | 10/13/21 15:25 | 1 |
| Oxidation Reduction Potential | -90.8 | | | | millivolts | | | 10/13/21 15:25 | 1 |
| Oxygen, Dissolved, Client Supplied | 0.09 | | | | mg/L | | | 10/13/21 15:25 | 1 |
| pH, Field | 7.54 | | | | SU | | | 10/13/21 15:25 | 1 |
| Specific Conductance, Field | 714 | | | | umhos/cm | | | 10/13/21 15:25 | 1 |
| Temperature, Field | 15.4 | | | | Degrees C | | | 10/13/21 15:25 | 1 |
| Turbidity, Field | 8.6 | | | | NTU | | | 10/13/21 15:25 | 1 |

Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-217572-1

Client Sample ID: Field Blank

Lab Sample ID: 310-217572-20

Date Collected: 10/14/21 14:20

Matrix: Water

Date Received: 10/15/21 16:45

Method: 9056A - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | <0.43 | | 1.0 | 0.43 | mg/L | | | 10/20/21 08:25 | 1 |
| Fluoride | <0.055 | | 0.10 | 0.055 | mg/L | | | 10/20/21 08:25 | 1 |
| Sulfate | <0.49 | | 1.0 | 0.49 | mg/L | | | 10/20/21 08:25 | 1 |

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------|-------------|-----------|------|-------|------|---|----------------|----------------|---------|
| Antimony | <1.1 | | 2.0 | 1.1 | ug/L | | 10/19/21 09:15 | 10/28/21 22:00 | 1 |
| Arsenic | <0.75 | | 2.0 | 0.75 | ug/L | | 10/19/21 09:15 | 10/28/21 22:00 | 1 |
| Barium | <0.37 | | 2.0 | 0.37 | ug/L | | 10/19/21 09:15 | 10/28/21 22:00 | 1 |
| Beryllium | <0.27 | | 1.0 | 0.27 | ug/L | | 10/19/21 09:15 | 10/28/21 22:00 | 1 |
| Boron | 93 J | | 100 | 58 | ug/L | | 10/19/21 09:15 | 10/28/21 22:00 | 1 |
| Cadmium | <0.051 | | 0.10 | 0.051 | ug/L | | 10/19/21 09:15 | 10/28/21 22:00 | 1 |
| Calcium | <0.19 | | 0.50 | 0.19 | mg/L | | 10/19/21 09:15 | 10/28/21 22:00 | 1 |
| Chromium | <1.1 | | 5.0 | 1.1 | ug/L | | 10/19/21 09:15 | 10/28/21 22:00 | 1 |
| Cobalt | <0.19 | | 0.50 | 0.19 | ug/L | | 10/19/21 09:15 | 10/28/21 22:00 | 1 |
| Lead | <0.21 | | 0.50 | 0.21 | ug/L | | 10/19/21 09:15 | 10/28/21 22:00 | 1 |
| Lithium | <2.5 | | 10 | 2.5 | ug/L | | 10/19/21 09:15 | 10/28/21 22:00 | 1 |
| Molybdenum | <1.3 | | 2.0 | 1.3 | ug/L | | 10/19/21 09:15 | 10/28/21 22:00 | 1 |
| Selenium | <0.96 | | 5.0 | 0.96 | ug/L | | 10/19/21 09:15 | 10/28/21 22:00 | 1 |
| Thallium | <0.26 | | 1.0 | 0.26 | ug/L | | 10/19/21 09:15 | 10/28/21 22:00 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|------------|-----------|-----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | <26 | | 50 | 26 | mg/L | | | 10/19/21 15:07 | 1 |
| pH | 6.1 | HF | 0.1 | 0.1 | SU | | | 10/16/21 10:36 | 1 |

Definitions/Glossary

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-217572-1

Qualifiers

HPLC/IC

| Qualifier | Qualifier Description |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4 | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

Metals

| Qualifier | Qualifier Description |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4 | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

General Chemistry

| Qualifier | Qualifier Description |
|-----------|------------------------------------------------------------------------------------------------------|
| HF | Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. |

Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|----------------|-------------------------------------------------------------------------------------------------------------|
| α | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CFU | Colony Forming Unit |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MCL | EPA recommended "Maximum Contaminant Level" |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| MPN | Most Probable Number |
| MQL | Method Quantitation Limit |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| NEG | Negative / Absent |
| POS | Positive / Present |
| PQL | Practical Quantitation Limit |
| PRES | Presumptive |
| QC | Quality Control |
| RER | Relative Error Ratio (Radiochemistry) |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |
| TNTC | Too Numerous To Count |

QC Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-217572-1

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 310-332350/3
Matrix: Water
Analysis Batch: 332350

Client Sample ID: Method Blank
Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|-----------|--------------|------|-------|------|---|----------|----------------|---------|
| Chloride | <0.43 | | 1.0 | 0.43 | mg/L | | | 10/19/21 18:43 | 1 |
| Fluoride | <0.055 | | 0.10 | 0.055 | mg/L | | | 10/19/21 18:43 | 1 |
| Sulfate | <0.49 | | 1.0 | 0.49 | mg/L | | | 10/19/21 18:43 | 1 |

Lab Sample ID: LCS 310-332350/4
Matrix: Water
Analysis Batch: 332350

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|------|---|------|--------------|
| Chloride | 10.0 | 10.1 | | mg/L | | 101 | 90 - 110 |
| Fluoride | 2.00 | 2.10 | | mg/L | | 105 | 90 - 110 |
| Sulfate | 10.0 | 10.5 | | mg/L | | 105 | 90 - 110 |

Lab Sample ID: 310-217572-1 MS
Matrix: Water
Analysis Batch: 332350

Client Sample ID: MW-301
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Chloride | 19 | | 25.0 | 42.5 | | mg/L | | 94 | 80 - 120 |
| Fluoride | <0.28 | | 5.00 | 4.36 | | mg/L | | 87 | 80 - 120 |

Lab Sample ID: 310-217572-1 MS
Matrix: Water
Analysis Batch: 332350

Client Sample ID: MW-301
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Sulfate | 630 | | 100 | 703 | 4 | mg/L | | 76 | 80 - 120 |

Lab Sample ID: 310-217572-1 MSD
Matrix: Water
Analysis Batch: 332350

Client Sample ID: MW-301
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Chloride | 19 | | 25.0 | 41.8 | | mg/L | | 91 | 80 - 120 | 2 | 15 |
| Fluoride | <0.28 | | 5.00 | 4.29 | | mg/L | | 86 | 80 - 120 | 2 | 15 |

Lab Sample ID: 310-217572-1 MSD
Matrix: Water
Analysis Batch: 332350

Client Sample ID: MW-301
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Sulfate | 630 | | 100 | 702 | 4 | mg/L | | 76 | 80 - 120 | 0 | 15 |

QC Sample Results

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-217572-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 310-331961/1-A
Matrix: Water
Analysis Batch: 333453

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 331961

| Analyte | MB | MB | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Antimony | <1.1 | | 2.0 | 1.1 | ug/L | | 10/19/21 09:15 | 10/28/21 20:24 | 1 |
| Arsenic | <0.75 | | 2.0 | 0.75 | ug/L | | 10/19/21 09:15 | 10/28/21 20:24 | 1 |
| Barium | <0.37 | | 2.0 | 0.37 | ug/L | | 10/19/21 09:15 | 10/28/21 20:24 | 1 |
| Beryllium | <0.27 | | 1.0 | 0.27 | ug/L | | 10/19/21 09:15 | 10/28/21 20:24 | 1 |
| Boron | <58 | | 100 | 58 | ug/L | | 10/19/21 09:15 | 10/28/21 20:24 | 1 |
| Cadmium | <0.051 | | 0.10 | 0.051 | ug/L | | 10/19/21 09:15 | 10/28/21 20:24 | 1 |
| Calcium | <0.19 | | 0.50 | 0.19 | mg/L | | 10/19/21 09:15 | 10/28/21 20:24 | 1 |
| Chromium | <1.1 | | 5.0 | 1.1 | ug/L | | 10/19/21 09:15 | 10/28/21 20:24 | 1 |
| Cobalt | <0.19 | | 0.50 | 0.19 | ug/L | | 10/19/21 09:15 | 10/28/21 20:24 | 1 |
| Lead | <0.21 | | 0.50 | 0.21 | ug/L | | 10/19/21 09:15 | 10/28/21 20:24 | 1 |
| Lithium | <2.5 | | 10 | 2.5 | ug/L | | 10/19/21 09:15 | 10/28/21 20:24 | 1 |
| Molybdenum | <1.3 | | 2.0 | 1.3 | ug/L | | 10/19/21 09:15 | 10/28/21 20:24 | 1 |
| Selenium | <0.96 | | 5.0 | 0.96 | ug/L | | 10/19/21 09:15 | 10/28/21 20:24 | 1 |
| Thallium | <0.26 | | 1.0 | 0.26 | ug/L | | 10/19/21 09:15 | 10/28/21 20:24 | 1 |

Lab Sample ID: LCS 310-331961/2-A
Matrix: Water
Analysis Batch: 333453

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 331961

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits |
|------------|-------------|------------|---------------|------|---|------|----------|
| | | | | | | | |
| Arsenic | 200 | 191 | | ug/L | | 96 | 80 - 120 |
| Barium | 100 | 102 | | ug/L | | 102 | 80 - 120 |
| Beryllium | 100 | 100 | | ug/L | | 100 | 80 - 120 |
| Boron | 200 | 195 | | ug/L | | 97 | 80 - 120 |
| Cadmium | 100 | 96.1 | | ug/L | | 96 | 80 - 120 |
| Calcium | 2.00 | 1.96 | | mg/L | | 98 | 80 - 120 |
| Chromium | 100 | 95.1 | | ug/L | | 95 | 80 - 120 |
| Cobalt | 100 | 101 | | ug/L | | 101 | 80 - 120 |
| Lead | 200 | 204 | | ug/L | | 102 | 80 - 120 |
| Lithium | 200 | 208 | | ug/L | | 104 | 80 - 120 |
| Molybdenum | 200 | 190 | | ug/L | | 95 | 80 - 120 |
| Selenium | 400 | 377 | | ug/L | | 94 | 80 - 120 |
| Thallium | 200 | 185 | | ug/L | | 92 | 80 - 120 |

Lab Sample ID: 310-217572-1 MS
Matrix: Water
Analysis Batch: 333453

Client Sample ID: MW-301
Prep Type: Total/NA
Prep Batch: 331961

| Analyte | Sample | Sample | Spike Added | MS | MS | Unit | D | %Rec | Limits |
|-----------|--------|-----------|-------------|--------|-----------|------|---|------|----------|
| | Result | Qualifier | | Result | Qualifier | | | | |
| Antimony | <1.1 | | 200 | 182 | | ug/L | | 91 | 75 - 125 |
| Arsenic | 66 | | 200 | 261 | | ug/L | | 98 | 75 - 125 |
| Barium | 170 | | 100 | 277 | | ug/L | | 104 | 75 - 125 |
| Beryllium | <0.27 | | 100 | 91.2 | | ug/L | | 91 | 75 - 125 |
| Cadmium | 0.098 | J | 100 | 95.8 | | ug/L | | 96 | 75 - 125 |
| Calcium | 260 | | 2.00 | 265 | 4 | mg/L | | 154 | 75 - 125 |
| Chromium | <1.1 | | 100 | 92.0 | | ug/L | | 92 | 75 - 125 |
| Cobalt | 0.74 | | 100 | 96.7 | | ug/L | | 96 | 75 - 125 |
| Lead | <0.21 | | 200 | 189 | | ug/L | | 94 | 75 - 125 |

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QC Sample Results

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-217572-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 310-217572-1 MS
Matrix: Water
Analysis Batch: 333453

Client Sample ID: MW-301
Prep Type: Total/NA
Prep Batch: 331961

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|------------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Lithium | 11 | | 200 | 192 | | ug/L | | 90 | 75 - 125 |
| Molybdenum | 47 | | 200 | 246 | | ug/L | | 100 | 75 - 125 |
| Selenium | 0.97 | J | 400 | 384 | | ug/L | | 96 | 75 - 125 |
| Thallium | <0.26 | | 200 | 170 | | ug/L | | 85 | 75 - 125 |

Lab Sample ID: 310-217572-1 MS
Matrix: Water
Analysis Batch: 333580

Client Sample ID: MW-301
Prep Type: Total/NA
Prep Batch: 331961

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Boron | 7300 | | 200 | 7830 | 4 | ug/L | | 250 | 75 - 125 |

Lab Sample ID: 310-217572-1 MSD
Matrix: Water
Analysis Batch: 333453

Client Sample ID: MW-301
Prep Type: Total/NA
Prep Batch: 331961

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|------------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Antimony | <1.1 | | 200 | 187 | | ug/L | | 94 | 75 - 125 | 3 | 20 |
| Arsenic | 66 | | 200 | 267 | | ug/L | | 101 | 75 - 125 | 2 | 20 |
| Barium | 170 | | 100 | 285 | | ug/L | | 112 | 75 - 125 | 3 | 20 |
| Beryllium | <0.27 | | 100 | 93.0 | | ug/L | | 93 | 75 - 125 | 2 | 20 |
| Cadmium | 0.098 | J | 100 | 98.6 | | ug/L | | 99 | 75 - 125 | 3 | 20 |
| Calcium | 260 | | 2.00 | 268 | 4 | mg/L | | 272 | 75 - 125 | 1 | 20 |
| Chromium | <1.1 | | 100 | 93.5 | | ug/L | | 93 | 75 - 125 | 2 | 20 |
| Cobalt | 0.74 | | 100 | 99.6 | | ug/L | | 99 | 75 - 125 | 3 | 20 |
| Lead | <0.21 | | 200 | 194 | | ug/L | | 97 | 75 - 125 | 3 | 20 |
| Lithium | 11 | | 200 | 197 | | ug/L | | 93 | 75 - 125 | 2 | 20 |
| Molybdenum | 47 | | 200 | 250 | | ug/L | | 101 | 75 - 125 | 1 | 20 |
| Selenium | 0.97 | J | 400 | 396 | | ug/L | | 99 | 75 - 125 | 3 | 20 |
| Thallium | <0.26 | | 200 | 178 | | ug/L | | 89 | 75 - 125 | 4 | 20 |

Lab Sample ID: 310-217572-1 MSD
Matrix: Water
Analysis Batch: 333580

Client Sample ID: MW-301
Prep Type: Total/NA
Prep Batch: 331961

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Boron | 7300 | | 200 | 8110 | 4 | ug/L | | 389 | 75 - 125 | 3 | 20 |

Lab Sample ID: 310-217572-11 DU
Matrix: Water
Analysis Batch: 333453

Client Sample ID: MW-308
Prep Type: Total/NA
Prep Batch: 331961

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|-----------|---------------|------------------|-----------|--------------|------|---|------|-----------|
| Antimony | <1.1 | | <1.1 | | ug/L | | NC | 20 |
| Arsenic | 59 | | 60.3 | | ug/L | | 2 | 20 |
| Barium | 82 | | 82.6 | | ug/L | | 0.8 | 20 |
| Beryllium | <0.27 | | <0.27 | | ug/L | | NC | 20 |
| Boron | 3900 | | 3940 | | ug/L | | 0.4 | 20 |
| Cadmium | <0.051 | | <0.051 | | ug/L | | NC | 20 |
| Calcium | 38 | | 38.3 | | mg/L | | 0.05 | 20 |

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QC Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-217572-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 310-217572-11 DU
Matrix: Water
Analysis Batch: 333453

Client Sample ID: MW-308
Prep Type: Total/NA
Prep Batch: 331961

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | Limit |
|------------|---------------|------------------|-----------|--------------|------|---|-----|-------|
| Chromium | <1.1 | | <1.1 | | ug/L | | NC | 20 |
| Cobalt | <0.19 | | <0.19 | | ug/L | | NC | 20 |
| Lead | <0.21 | | <0.21 | | ug/L | | NC | 20 |
| Lithium | 58 | | 57.3 | | ug/L | | 0.6 | 20 |
| Molybdenum | 81 | | 84.6 | | ug/L | | 5 | 20 |
| Selenium | <0.96 | | <0.96 | | ug/L | | NC | 20 |
| Thallium | <0.26 | | <0.26 | | ug/L | | NC | 20 |

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 310-331890/1
Matrix: Water
Analysis Batch: 331890

Client Sample ID: Method Blank
Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|-----------|--------------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | <26 | | 50 | 26 | mg/L | | | 10/16/21 10:17 | 1 |

Lab Sample ID: LCS 310-331890/2
Matrix: Water
Analysis Batch: 331890

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|------------------------|-------------|------------|---------------|------|---|------|--------------|
| Total Dissolved Solids | 1000 | 916 | | mg/L | | 92 | 90 - 110 |

Lab Sample ID: 310-217572-7 DU
Matrix: Water
Analysis Batch: 331890

Client Sample ID: MW-306
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | Limit |
|------------------------|---------------|------------------|-----------|--------------|------|---|-----|-------|
| Total Dissolved Solids | 250 | | 266 | | mg/L | | 5 | 20 |

Lab Sample ID: MB 310-332029/1
Matrix: Water
Analysis Batch: 332029

Client Sample ID: Method Blank
Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|-----------|--------------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | <26 | | 50 | 26 | mg/L | | | 10/18/21 15:21 | 1 |

Lab Sample ID: LCS 310-332029/2
Matrix: Water
Analysis Batch: 332029

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|------------------------|-------------|------------|---------------|------|---|------|--------------|
| Total Dissolved Solids | 1000 | 908 | | mg/L | | 91 | 90 - 110 |

QC Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-217572-1

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: MB 310-332172/1
 Matrix: Water
 Analysis Batch: 332172

Client Sample ID: Method Blank
 Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|-----------|--------------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | <26 | | 50 | 26 | mg/L | | | 10/19/21 15:07 | 1 |

Lab Sample ID: LCS 310-332172/2
 Matrix: Water
 Analysis Batch: 332172

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|------------------------|-------------|------------|---------------|------|---|------|--------------|
| Total Dissolved Solids | 1000 | 922 | | mg/L | | 92 | 90 - 110 |

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 310-331891/1
 Matrix: Water
 Analysis Batch: 331891

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|-------------|------------|---------------|------|---|------|--------------|
| pH | 7.00 | 7.1 | | SU | | 101 | 98 - 102 |

Lab Sample ID: LCS 310-331891/28
 Matrix: Water
 Analysis Batch: 331891

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|-------------|------------|---------------|------|---|------|--------------|
| pH | 7.00 | 7.1 | | SU | | 101 | 98 - 102 |

Lab Sample ID: 310-217572-1 DU
 Matrix: Water
 Analysis Batch: 331891

Client Sample ID: MW-301
 Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|---------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| pH | 7.0 | HF | 7.0 | | SU | | 0.3 | 20 |

Lab Sample ID: 310-217572-3 DU
 Matrix: Water
 Analysis Batch: 331891

Client Sample ID: MW-302A
 Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|---------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| pH | 7.3 | HF | 7.3 | | SU | | 0.3 | 20 |

Lab Sample ID: 310-217572-14 DU
 Matrix: Water
 Analysis Batch: 331891

Client Sample ID: MW-310
 Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|---------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| pH | 7.2 | HF | 7.2 | | SU | | 0.1 | 20 |

QC Association Summary

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-217572-1

HPLC/IC

Analysis Batch: 332350

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 310-217572-1 | MW-301 | Total/NA | Water | 9056A | |
| 310-217572-1 | MW-301 | Total/NA | Water | 9056A | |
| 310-217572-2 | MW-302 | Total/NA | Water | 9056A | |
| 310-217572-3 | MW-302A | Total/NA | Water | 9056A | |
| 310-217572-4 | MW-303 | Total/NA | Water | 9056A | |
| 310-217572-5 | MW-304 | Total/NA | Water | 9056A | |
| 310-217572-6 | MW-305 | Total/NA | Water | 9056A | |
| 310-217572-7 | MW-306 | Total/NA | Water | 9056A | |
| 310-217572-8 | MW-307 | Total/NA | Water | 9056A | |
| 310-217572-9 | MW-307A | Total/NA | Water | 9056A | |
| 310-217572-10 | MW-307B | Total/NA | Water | 9056A | |
| 310-217572-11 | MW-308 | Total/NA | Water | 9056A | |
| 310-217572-12 | MW-309 | Total/NA | Water | 9056A | |
| 310-217572-13 | MW-310A | Total/NA | Water | 9056A | |
| 310-217572-14 | MW-310 | Total/NA | Water | 9056A | |
| 310-217572-15 | MW-311 | Total/NA | Water | 9056A | |
| 310-217572-16 | MW-312 | Total/NA | Water | 9056A | |
| 310-217572-17 | MW-313 | Total/NA | Water | 9056A | |
| 310-217572-18 | MW-313A | Total/NA | Water | 9056A | |
| 310-217572-19 | MW-313B | Total/NA | Water | 9056A | |
| 310-217572-20 | Field Blank | Total/NA | Water | 9056A | |
| MB 310-332350/3 | Method Blank | Total/NA | Water | 9056A | |
| LCS 310-332350/4 | Lab Control Sample | Total/NA | Water | 9056A | |
| 310-217572-1 MS | MW-301 | Total/NA | Water | 9056A | |
| 310-217572-1 MS | MW-301 | Total/NA | Water | 9056A | |
| 310-217572-1 MSD | MW-301 | Total/NA | Water | 9056A | |
| 310-217572-1 MSD | MW-301 | Total/NA | Water | 9056A | |

Metals

Prep Batch: 331961

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 310-217572-1 | MW-301 | Total/NA | Water | 3010A | |
| 310-217572-2 | MW-302 | Total/NA | Water | 3010A | |
| 310-217572-3 | MW-302A | Total/NA | Water | 3010A | |
| 310-217572-4 | MW-303 | Total/NA | Water | 3010A | |
| 310-217572-5 | MW-304 | Total/NA | Water | 3010A | |
| 310-217572-6 | MW-305 | Total/NA | Water | 3010A | |
| 310-217572-7 | MW-306 | Total/NA | Water | 3010A | |
| 310-217572-8 | MW-307 | Total/NA | Water | 3010A | |
| 310-217572-9 | MW-307A | Total/NA | Water | 3010A | |
| 310-217572-10 | MW-307B | Total/NA | Water | 3010A | |
| 310-217572-11 | MW-308 | Total/NA | Water | 3010A | |
| 310-217572-12 | MW-309 | Total/NA | Water | 3010A | |
| 310-217572-13 | MW-310A | Total/NA | Water | 3010A | |
| 310-217572-14 | MW-310 | Total/NA | Water | 3010A | |
| 310-217572-15 | MW-311 | Total/NA | Water | 3010A | |
| 310-217572-16 | MW-312 | Total/NA | Water | 3010A | |
| 310-217572-17 | MW-313 | Total/NA | Water | 3010A | |
| 310-217572-18 | MW-313A | Total/NA | Water | 3010A | |
| 310-217572-19 | MW-313B | Total/NA | Water | 3010A | |

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QC Association Summary

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-217572-1

Metals (Continued)

Prep Batch: 331961 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 310-217572-20 | Field Blank | Total/NA | Water | 3010A | |
| MB 310-331961/1-A | Method Blank | Total/NA | Water | 3010A | |
| LCS 310-331961/2-A | Lab Control Sample | Total/NA | Water | 3010A | |
| 310-217572-1 MS | MW-301 | Total/NA | Water | 3010A | |
| 310-217572-1 MSD | MW-301 | Total/NA | Water | 3010A | |
| 310-217572-11 DU | MW-308 | Total/NA | Water | 3010A | |

Analysis Batch: 333453

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 310-217572-1 | MW-301 | Total/NA | Water | 6020A | 331961 |
| 310-217572-2 | MW-302 | Total/NA | Water | 6020A | 331961 |
| 310-217572-3 | MW-302A | Total/NA | Water | 6020A | 331961 |
| 310-217572-4 | MW-303 | Total/NA | Water | 6020A | 331961 |
| 310-217572-5 | MW-304 | Total/NA | Water | 6020A | 331961 |
| 310-217572-6 | MW-305 | Total/NA | Water | 6020A | 331961 |
| 310-217572-7 | MW-306 | Total/NA | Water | 6020A | 331961 |
| 310-217572-8 | MW-307 | Total/NA | Water | 6020A | 331961 |
| 310-217572-9 | MW-307A | Total/NA | Water | 6020A | 331961 |
| 310-217572-10 | MW-307B | Total/NA | Water | 6020A | 331961 |
| 310-217572-11 | MW-308 | Total/NA | Water | 6020A | 331961 |
| 310-217572-12 | MW-309 | Total/NA | Water | 6020A | 331961 |
| 310-217572-13 | MW-310A | Total/NA | Water | 6020A | 331961 |
| 310-217572-14 | MW-310 | Total/NA | Water | 6020A | 331961 |
| 310-217572-15 | MW-311 | Total/NA | Water | 6020A | 331961 |
| 310-217572-16 | MW-312 | Total/NA | Water | 6020A | 331961 |
| 310-217572-17 | MW-313 | Total/NA | Water | 6020A | 331961 |
| 310-217572-18 | MW-313A | Total/NA | Water | 6020A | 331961 |
| 310-217572-19 | MW-313B | Total/NA | Water | 6020A | 331961 |
| 310-217572-20 | Field Blank | Total/NA | Water | 6020A | 331961 |
| MB 310-331961/1-A | Method Blank | Total/NA | Water | 6020A | 331961 |
| LCS 310-331961/2-A | Lab Control Sample | Total/NA | Water | 6020A | 331961 |
| 310-217572-1 MS | MW-301 | Total/NA | Water | 6020A | 331961 |
| 310-217572-1 MSD | MW-301 | Total/NA | Water | 6020A | 331961 |
| 310-217572-11 DU | MW-308 | Total/NA | Water | 6020A | 331961 |

Analysis Batch: 333580

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------|------------|
| 310-217572-1 | MW-301 | Total/NA | Water | 6020A | 331961 |
| 310-217572-2 | MW-302 | Total/NA | Water | 6020A | 331961 |
| 310-217572-3 | MW-302A | Total/NA | Water | 6020A | 331961 |
| 310-217572-4 | MW-303 | Total/NA | Water | 6020A | 331961 |
| 310-217572-5 | MW-304 | Total/NA | Water | 6020A | 331961 |
| 310-217572-16 | MW-312 | Total/NA | Water | 6020A | 331961 |
| 310-217572-17 | MW-313 | Total/NA | Water | 6020A | 331961 |
| 310-217572-1 MS | MW-301 | Total/NA | Water | 6020A | 331961 |
| 310-217572-1 MSD | MW-301 | Total/NA | Water | 6020A | 331961 |

QC Association Summary

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-217572-1

General Chemistry

Analysis Batch: 331890

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|----------|------------|
| 310-217572-2 | MW-302 | Total/NA | Water | SM 2540C | |
| 310-217572-3 | MW-302A | Total/NA | Water | SM 2540C | |
| 310-217572-4 | MW-303 | Total/NA | Water | SM 2540C | |
| 310-217572-5 | MW-304 | Total/NA | Water | SM 2540C | |
| 310-217572-7 | MW-306 | Total/NA | Water | SM 2540C | |
| 310-217572-8 | MW-307 | Total/NA | Water | SM 2540C | |
| 310-217572-9 | MW-307A | Total/NA | Water | SM 2540C | |
| 310-217572-10 | MW-307B | Total/NA | Water | SM 2540C | |
| 310-217572-11 | MW-308 | Total/NA | Water | SM 2540C | |
| 310-217572-12 | MW-309 | Total/NA | Water | SM 2540C | |
| 310-217572-14 | MW-310 | Total/NA | Water | SM 2540C | |
| 310-217572-15 | MW-311 | Total/NA | Water | SM 2540C | |
| 310-217572-17 | MW-313 | Total/NA | Water | SM 2540C | |
| 310-217572-18 | MW-313A | Total/NA | Water | SM 2540C | |
| MB 310-331890/1 | Method Blank | Total/NA | Water | SM 2540C | |
| LCS 310-331890/2 | Lab Control Sample | Total/NA | Water | SM 2540C | |
| 310-217572-7 DU | MW-306 | Total/NA | Water | SM 2540C | |

Analysis Batch: 331891

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------------|------------|
| 310-217572-1 | MW-301 | Total/NA | Water | SM 4500 H+ B | |
| 310-217572-2 | MW-302 | Total/NA | Water | SM 4500 H+ B | |
| 310-217572-3 | MW-302A | Total/NA | Water | SM 4500 H+ B | |
| 310-217572-4 | MW-303 | Total/NA | Water | SM 4500 H+ B | |
| 310-217572-5 | MW-304 | Total/NA | Water | SM 4500 H+ B | |
| 310-217572-6 | MW-305 | Total/NA | Water | SM 4500 H+ B | |
| 310-217572-7 | MW-306 | Total/NA | Water | SM 4500 H+ B | |
| 310-217572-8 | MW-307 | Total/NA | Water | SM 4500 H+ B | |
| 310-217572-9 | MW-307A | Total/NA | Water | SM 4500 H+ B | |
| 310-217572-10 | MW-307B | Total/NA | Water | SM 4500 H+ B | |
| 310-217572-11 | MW-308 | Total/NA | Water | SM 4500 H+ B | |
| 310-217572-12 | MW-309 | Total/NA | Water | SM 4500 H+ B | |
| 310-217572-13 | MW-310A | Total/NA | Water | SM 4500 H+ B | |
| 310-217572-14 | MW-310 | Total/NA | Water | SM 4500 H+ B | |
| 310-217572-15 | MW-311 | Total/NA | Water | SM 4500 H+ B | |
| 310-217572-16 | MW-312 | Total/NA | Water | SM 4500 H+ B | |
| 310-217572-17 | MW-313 | Total/NA | Water | SM 4500 H+ B | |
| 310-217572-18 | MW-313A | Total/NA | Water | SM 4500 H+ B | |
| 310-217572-19 | MW-313B | Total/NA | Water | SM 4500 H+ B | |
| 310-217572-20 | Field Blank | Total/NA | Water | SM 4500 H+ B | |
| LCS 310-331891/1 | Lab Control Sample | Total/NA | Water | SM 4500 H+ B | |
| LCS 310-331891/28 | Lab Control Sample | Total/NA | Water | SM 4500 H+ B | |
| 310-217572-1 DU | MW-301 | Total/NA | Water | SM 4500 H+ B | |
| 310-217572-3 DU | MW-302A | Total/NA | Water | SM 4500 H+ B | |
| 310-217572-14 DU | MW-310 | Total/NA | Water | SM 4500 H+ B | |

Analysis Batch: 332029

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-----------------|------------------|-----------|--------|----------|------------|
| 310-217572-1 | MW-301 | Total/NA | Water | SM 2540C | |
| 310-217572-19 | MW-313B | Total/NA | Water | SM 2540C | |
| MB 310-332029/1 | Method Blank | Total/NA | Water | SM 2540C | |

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QC Association Summary

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-217572-1

General Chemistry (Continued)

Analysis Batch: 332029 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|----------|------------|
| LCS 310-332029/2 | Lab Control Sample | Total/NA | Water | SM 2540C | |

Analysis Batch: 332172

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|----------|------------|
| 310-217572-6 | MW-305 | Total/NA | Water | SM 2540C | |
| 310-217572-13 | MW-310A | Total/NA | Water | SM 2540C | |
| 310-217572-16 | MW-312 | Total/NA | Water | SM 2540C | |
| 310-217572-20 | Field Blank | Total/NA | Water | SM 2540C | |
| MB 310-332172/1 | Method Blank | Total/NA | Water | SM 2540C | |
| LCS 310-332172/2 | Lab Control Sample | Total/NA | Water | SM 2540C | |

Field Service / Mobile Lab

Analysis Batch: 332159

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|----------------|------------|
| 310-217572-1 | MW-301 | Total/NA | Water | Field Sampling | |
| 310-217572-2 | MW-302 | Total/NA | Water | Field Sampling | |
| 310-217572-3 | MW-302A | Total/NA | Water | Field Sampling | |
| 310-217572-4 | MW-303 | Total/NA | Water | Field Sampling | |
| 310-217572-5 | MW-304 | Total/NA | Water | Field Sampling | |
| 310-217572-6 | MW-305 | Total/NA | Water | Field Sampling | |
| 310-217572-7 | MW-306 | Total/NA | Water | Field Sampling | |
| 310-217572-8 | MW-307 | Total/NA | Water | Field Sampling | |
| 310-217572-9 | MW-307A | Total/NA | Water | Field Sampling | |
| 310-217572-10 | MW-307B | Total/NA | Water | Field Sampling | |
| 310-217572-11 | MW-308 | Total/NA | Water | Field Sampling | |
| 310-217572-12 | MW-309 | Total/NA | Water | Field Sampling | |
| 310-217572-13 | MW-310A | Total/NA | Water | Field Sampling | |
| 310-217572-14 | MW-310 | Total/NA | Water | Field Sampling | |
| 310-217572-15 | MW-311 | Total/NA | Water | Field Sampling | |
| 310-217572-16 | MW-312 | Total/NA | Water | Field Sampling | |
| 310-217572-17 | MW-313 | Total/NA | Water | Field Sampling | |
| 310-217572-18 | MW-313A | Total/NA | Water | Field Sampling | |
| 310-217572-19 | MW-313B | Total/NA | Water | Field Sampling | |

Lab Chronicle

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-217572-1

Client Sample ID: MW-301

Date Collected: 10/13/21 09:05

Date Received: 10/15/21 16:45

Lab Sample ID: 310-217572-1

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Analysis | 9056A | | 5 | 332350 | 10/19/21 19:14 | JNR | TAL CF |
| Total/NA | Analysis | 9056A | | 20 | 332350 | 10/20/21 07:38 | JNR | TAL CF |
| Total/NA | Prep | 3010A | | | 331961 | 10/19/21 09:15 | CJT | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 333453 | 10/28/21 20:29 | SAP | TAL CF |
| Total/NA | Prep | 3010A | | | 331961 | 10/19/21 09:15 | CJT | TAL CF |
| Total/NA | Analysis | 6020A | | 4 | 333580 | 10/29/21 11:39 | SAP | TAL CF |
| Total/NA | Analysis | SM 2540C | | 1 | 332029 | 10/18/21 15:21 | ARG | TAL CF |
| Total/NA | Analysis | SM 4500 H+ B | | 1 | 331891 | 10/16/21 10:45 | GRS | TAL CF |
| Total/NA | Analysis | Field Sampling | | 1 | 332159 | 10/13/21 09:05 | SLD | TAL CF |

Client Sample ID: MW-302

Date Collected: 10/12/21 14:40

Date Received: 10/15/21 16:45

Lab Sample ID: 310-217572-2

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Analysis | 9056A | | 5 | 332350 | 10/19/21 20:01 | JNR | TAL CF |
| Total/NA | Prep | 3010A | | | 331961 | 10/19/21 09:15 | CJT | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 333453 | 10/28/21 20:50 | SAP | TAL CF |
| Total/NA | Prep | 3010A | | | 331961 | 10/19/21 09:15 | CJT | TAL CF |
| Total/NA | Analysis | 6020A | | 4 | 333580 | 10/29/21 11:47 | SAP | TAL CF |
| Total/NA | Analysis | SM 2540C | | 1 | 331890 | 10/16/21 10:17 | ARG | TAL CF |
| Total/NA | Analysis | SM 4500 H+ B | | 1 | 331891 | 10/16/21 10:53 | GRS | TAL CF |
| Total/NA | Analysis | Field Sampling | | 1 | 332159 | 10/12/21 14:40 | SLD | TAL CF |

Client Sample ID: MW-302A

Date Collected: 10/12/21 15:40

Date Received: 10/15/21 16:45

Lab Sample ID: 310-217572-3

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Analysis | 9056A | | 5 | 332350 | 10/19/21 20:17 | JNR | TAL CF |
| Total/NA | Prep | 3010A | | | 331961 | 10/19/21 09:15 | CJT | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 333453 | 10/28/21 20:53 | SAP | TAL CF |
| Total/NA | Prep | 3010A | | | 331961 | 10/19/21 09:15 | CJT | TAL CF |
| Total/NA | Analysis | 6020A | | 4 | 333580 | 10/29/21 11:49 | SAP | TAL CF |
| Total/NA | Analysis | SM 2540C | | 1 | 331890 | 10/16/21 10:17 | ARG | TAL CF |
| Total/NA | Analysis | SM 4500 H+ B | | 1 | 331891 | 10/16/21 11:29 | GRS | TAL CF |
| Total/NA | Analysis | Field Sampling | | 1 | 332159 | 10/12/21 15:40 | SLD | TAL CF |

Client Sample ID: MW-303

Date Collected: 10/13/21 10:05

Date Received: 10/15/21 16:45

Lab Sample ID: 310-217572-4

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Analysis | 9056A | | 5 | 332350 | 10/19/21 20:33 | JNR | TAL CF |

Eurofins TestAmerica, Cedar Falls

Lab Chronicle

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-217572-1

Client Sample ID: MW-303

Lab Sample ID: 310-217572-4

Date Collected: 10/13/21 10:05

Matrix: Water

Date Received: 10/15/21 16:45

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | 3010A | | | 331961 | 10/19/21 09:15 | CJT | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 333453 | 10/28/21 20:55 | SAP | TAL CF |
| Total/NA | Prep | 3010A | | | 331961 | 10/19/21 09:15 | CJT | TAL CF |
| Total/NA | Analysis | 6020A | | 10 | 333580 | 10/29/21 11:52 | SAP | TAL CF |
| Total/NA | Analysis | SM 2540C | | 1 | 331890 | 10/16/21 10:17 | ARG | TAL CF |
| Total/NA | Analysis | SM 4500 H+ B | | 1 | 331891 | 10/16/21 11:13 | GRS | TAL CF |
| Total/NA | Analysis | Field Sampling | | 1 | 332159 | 10/13/21 10:05 | SLD | TAL CF |

Client Sample ID: MW-304

Lab Sample ID: 310-217572-5

Date Collected: 10/13/21 11:50

Matrix: Water

Date Received: 10/15/21 16:45

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Analysis | 9056A | | 5 | 332350 | 10/19/21 20:48 | JNR | TAL CF |
| Total/NA | Prep | 3010A | | | 331961 | 10/19/21 09:15 | CJT | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 333453 | 10/28/21 20:58 | SAP | TAL CF |
| Total/NA | Prep | 3010A | | | 331961 | 10/19/21 09:15 | CJT | TAL CF |
| Total/NA | Analysis | 6020A | | 4 | 333580 | 10/29/21 11:55 | SAP | TAL CF |
| Total/NA | Analysis | SM 2540C | | 1 | 331890 | 10/16/21 10:17 | ARG | TAL CF |
| Total/NA | Analysis | SM 4500 H+ B | | 1 | 331891 | 10/16/21 11:33 | GRS | TAL CF |
| Total/NA | Analysis | Field Sampling | | 1 | 332159 | 10/13/21 11:50 | SLD | TAL CF |

Client Sample ID: MW-305

Lab Sample ID: 310-217572-6

Date Collected: 10/14/21 12:30

Matrix: Water

Date Received: 10/15/21 16:45

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Analysis | 9056A | | 5 | 332350 | 10/19/21 21:04 | JNR | TAL CF |
| Total/NA | Prep | 3010A | | | 331961 | 10/19/21 09:15 | CJT | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 333453 | 10/28/21 21:00 | SAP | TAL CF |
| Total/NA | Analysis | SM 2540C | | 1 | 332172 | 10/19/21 15:07 | ARG | TAL CF |
| Total/NA | Analysis | SM 4500 H+ B | | 1 | 331891 | 10/16/21 10:40 | GRS | TAL CF |
| Total/NA | Analysis | Field Sampling | | 1 | 332159 | 10/14/21 12:30 | SLD | TAL CF |

Client Sample ID: MW-306

Lab Sample ID: 310-217572-7

Date Collected: 10/11/21 14:00

Matrix: Water

Date Received: 10/15/21 16:45

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Analysis | 9056A | | 5 | 332350 | 10/19/21 21:50 | JNR | TAL CF |
| Total/NA | Prep | 3010A | | | 331961 | 10/19/21 09:15 | CJT | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 333453 | 10/28/21 21:03 | SAP | TAL CF |
| Total/NA | Analysis | SM 2540C | | 1 | 331890 | 10/16/21 10:17 | ARG | TAL CF |
| Total/NA | Analysis | SM 4500 H+ B | | 1 | 331891 | 10/16/21 11:33 | GRS | TAL CF |

Eurofins TestAmerica, Cedar Falls

Lab Chronicle

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-217572-1

Client Sample ID: MW-306

Date Collected: 10/11/21 14:00

Date Received: 10/15/21 16:45

Lab Sample ID: 310-217572-7

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Analysis | Field Sampling | | 1 | 332159 | 10/11/21 14:00 | SLD | TAL CF |

Client Sample ID: MW-307

Date Collected: 10/11/21 15:35

Date Received: 10/15/21 16:45

Lab Sample ID: 310-217572-8

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Analysis | 9056A | | 5 | 332350 | 10/19/21 22:07 | JNR | TAL CF |
| Total/NA | Prep | 3010A | | | 331961 | 10/19/21 09:15 | CJT | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 333453 | 10/28/21 21:05 | SAP | TAL CF |
| Total/NA | Analysis | SM 2540C | | 1 | 331890 | 10/16/21 10:17 | ARG | TAL CF |
| Total/NA | Analysis | SM 4500 H+ B | | 1 | 331891 | 10/16/21 11:32 | GRS | TAL CF |
| Total/NA | Analysis | Field Sampling | | 1 | 332159 | 10/11/21 15:35 | SLD | TAL CF |

Client Sample ID: MW-307A

Date Collected: 10/11/21 17:50

Date Received: 10/15/21 16:45

Lab Sample ID: 310-217572-9

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Analysis | 9056A | | 5 | 332350 | 10/19/21 22:23 | JNR | TAL CF |
| Total/NA | Prep | 3010A | | | 331961 | 10/19/21 09:15 | CJT | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 333453 | 10/28/21 21:08 | SAP | TAL CF |
| Total/NA | Analysis | SM 2540C | | 1 | 331890 | 10/16/21 10:17 | ARG | TAL CF |
| Total/NA | Analysis | SM 4500 H+ B | | 1 | 331891 | 10/16/21 11:12 | GRS | TAL CF |
| Total/NA | Analysis | Field Sampling | | 1 | 332159 | 10/11/21 17:50 | SLD | TAL CF |

Client Sample ID: MW-307B

Date Collected: 10/11/21 17:00

Date Received: 10/15/21 16:45

Lab Sample ID: 310-217572-10

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Analysis | 9056A | | 5 | 332350 | 10/19/21 22:39 | JNR | TAL CF |
| Total/NA | Prep | 3010A | | | 331961 | 10/19/21 09:15 | CJT | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 333453 | 10/28/21 21:21 | SAP | TAL CF |
| Total/NA | Analysis | SM 2540C | | 1 | 331890 | 10/16/21 10:17 | ARG | TAL CF |
| Total/NA | Analysis | SM 4500 H+ B | | 1 | 331891 | 10/16/21 11:31 | GRS | TAL CF |
| Total/NA | Analysis | Field Sampling | | 1 | 332159 | 10/11/21 17:00 | SLD | TAL CF |

Client Sample ID: MW-308

Date Collected: 10/12/21 13:36

Date Received: 10/15/21 16:45

Lab Sample ID: 310-217572-11

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Analysis | 9056A | | 5 | 332350 | 10/19/21 22:56 | JNR | TAL CF |

Eurofins TestAmerica, Cedar Falls

Lab Chronicle

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-217572-1

Client Sample ID: MW-308

Date Collected: 10/12/21 13:36

Date Received: 10/15/21 16:45

Lab Sample ID: 310-217572-11

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | 3010A | | | 331961 | 10/19/21 09:15 | CJT | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 333453 | 10/28/21 21:24 | SAP | TAL CF |
| Total/NA | Analysis | SM 2540C | | 1 | 331890 | 10/16/21 10:17 | ARG | TAL CF |
| Total/NA | Analysis | SM 4500 H+ B | | 1 | 331891 | 10/16/21 11:05 | GRS | TAL CF |
| Total/NA | Analysis | Field Sampling | | 1 | 332159 | 10/12/21 13:36 | SLD | TAL CF |

Client Sample ID: MW-309

Date Collected: 10/12/21 12:20

Date Received: 10/15/21 16:45

Lab Sample ID: 310-217572-12

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Analysis | 9056A | | 5 | 332350 | 10/19/21 23:12 | JNR | TAL CF |
| Total/NA | Prep | 3010A | | | 331961 | 10/19/21 09:15 | CJT | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 333453 | 10/28/21 21:29 | SAP | TAL CF |
| Total/NA | Analysis | SM 2540C | | 1 | 331890 | 10/16/21 10:17 | ARG | TAL CF |
| Total/NA | Analysis | SM 4500 H+ B | | 1 | 331891 | 10/16/21 11:04 | GRS | TAL CF |
| Total/NA | Analysis | Field Sampling | | 1 | 332159 | 10/12/21 12:20 | SLD | TAL CF |

Client Sample ID: MW-310A

Date Collected: 10/14/21 09:30

Date Received: 10/15/21 16:45

Lab Sample ID: 310-217572-13

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Analysis | 9056A | | 5 | 332350 | 10/19/21 23:29 | JNR | TAL CF |
| Total/NA | Prep | 3010A | | | 331961 | 10/19/21 09:15 | CJT | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 333453 | 10/28/21 21:31 | SAP | TAL CF |
| Total/NA | Analysis | SM 2540C | | 1 | 332172 | 10/19/21 15:07 | ARG | TAL CF |
| Total/NA | Analysis | SM 4500 H+ B | | 1 | 331891 | 10/16/21 10:41 | GRS | TAL CF |
| Total/NA | Analysis | Field Sampling | | 1 | 332159 | 10/14/21 09:30 | SLD | TAL CF |

Client Sample ID: MW-310

Date Collected: 10/12/21 09:15

Date Received: 10/15/21 16:45

Lab Sample ID: 310-217572-14

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Analysis | 9056A | | 5 | 332350 | 10/19/21 23:45 | JNR | TAL CF |
| Total/NA | Prep | 3010A | | | 331961 | 10/19/21 09:15 | CJT | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 333453 | 10/28/21 21:34 | SAP | TAL CF |
| Total/NA | Analysis | SM 2540C | | 1 | 331890 | 10/16/21 10:17 | ARG | TAL CF |
| Total/NA | Analysis | SM 4500 H+ B | | 1 | 331891 | 10/16/21 11:01 | GRS | TAL CF |
| Total/NA | Analysis | Field Sampling | | 1 | 332159 | 10/12/21 09:15 | SLD | TAL CF |

Lab Chronicle

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-217572-1

Client Sample ID: MW-311

Lab Sample ID: 310-217572-15

Date Collected: 10/12/21 11:00

Matrix: Water

Date Received: 10/15/21 16:45

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Analysis | 9056A | | 5 | 332350 | 10/20/21 00:01 | JNR | TAL CF |
| Total/NA | Prep | 3010A | | | 331961 | 10/19/21 09:15 | CJT | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 333453 | 10/28/21 21:37 | SAP | TAL CF |
| Total/NA | Analysis | SM 2540C | | 1 | 331890 | 10/16/21 10:17 | ARG | TAL CF |
| Total/NA | Analysis | SM 4500 H+ B | | 1 | 331891 | 10/16/21 11:11 | GRS | TAL CF |
| Total/NA | Analysis | Field Sampling | | 1 | 332159 | 10/12/21 11:00 | SLD | TAL CF |

Client Sample ID: MW-312

Lab Sample ID: 310-217572-16

Date Collected: 10/14/21 11:10

Matrix: Water

Date Received: 10/15/21 16:45

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Analysis | 9056A | | 5 | 332350 | 10/20/21 00:18 | JNR | TAL CF |
| Total/NA | Prep | 3010A | | | 331961 | 10/19/21 09:15 | CJT | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 333453 | 10/28/21 21:39 | SAP | TAL CF |
| Total/NA | Prep | 3010A | | | 331961 | 10/19/21 09:15 | CJT | TAL CF |
| Total/NA | Analysis | 6020A | | 4 | 333580 | 10/29/21 12:08 | SAP | TAL CF |
| Total/NA | Analysis | SM 2540C | | 1 | 332172 | 10/19/21 15:07 | ARG | TAL CF |
| Total/NA | Analysis | SM 4500 H+ B | | 1 | 331891 | 10/16/21 10:47 | GRS | TAL CF |
| Total/NA | Analysis | Field Sampling | | 1 | 332159 | 10/14/21 11:10 | SLD | TAL CF |

Client Sample ID: MW-313

Lab Sample ID: 310-217572-17

Date Collected: 10/13/21 13:00

Matrix: Water

Date Received: 10/15/21 16:45

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Analysis | 9056A | | 5 | 332350 | 10/20/21 01:07 | JNR | TAL CF |
| Total/NA | Prep | 3010A | | | 331961 | 10/19/21 09:15 | CJT | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 333453 | 10/28/21 21:42 | SAP | TAL CF |
| Total/NA | Prep | 3010A | | | 331961 | 10/19/21 09:15 | CJT | TAL CF |
| Total/NA | Analysis | 6020A | | 4 | 333580 | 10/29/21 12:10 | SAP | TAL CF |
| Total/NA | Analysis | SM 2540C | | 1 | 331890 | 10/16/21 10:17 | ARG | TAL CF |
| Total/NA | Analysis | SM 4500 H+ B | | 1 | 331891 | 10/16/21 11:09 | GRS | TAL CF |
| Total/NA | Analysis | Field Sampling | | 1 | 332159 | 10/13/21 13:00 | SLD | TAL CF |

Client Sample ID: MW-313A

Lab Sample ID: 310-217572-18

Date Collected: 10/13/21 14:00

Matrix: Water

Date Received: 10/15/21 16:45

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Analysis | 9056A | | 5 | 332350 | 10/20/21 01:23 | JNR | TAL CF |
| Total/NA | Prep | 3010A | | | 331961 | 10/19/21 09:15 | CJT | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 333453 | 10/28/21 21:44 | SAP | TAL CF |
| Total/NA | Analysis | SM 2540C | | 1 | 331890 | 10/16/21 10:17 | ARG | TAL CF |

Eurofins TestAmerica, Cedar Falls

Lab Chronicle

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-217572-1

Client Sample ID: MW-313A

Lab Sample ID: 310-217572-18

Date Collected: 10/13/21 14:00

Matrix: Water

Date Received: 10/15/21 16:45

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Analysis | SM 4500 H+ B | | 1 | 331891 | 10/16/21 11:07 | GRS | TAL CF |
| Total/NA | Analysis | Field Sampling | | 1 | 332159 | 10/13/21 14:00 | SLD | TAL CF |

Client Sample ID: MW-313B

Lab Sample ID: 310-217572-19

Date Collected: 10/13/21 15:25

Matrix: Water

Date Received: 10/15/21 16:45

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Analysis | 9056A | | 5 | 332350 | 10/20/21 01:38 | JNR | TAL CF |
| Total/NA | Prep | 3010A | | | 331961 | 10/19/21 09:15 | CJT | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 333453 | 10/28/21 21:57 | SAP | TAL CF |
| Total/NA | Analysis | SM 2540C | | 1 | 332029 | 10/18/21 15:21 | ARG | TAL CF |
| Total/NA | Analysis | SM 4500 H+ B | | 1 | 331891 | 10/16/21 10:48 | GRS | TAL CF |
| Total/NA | Analysis | Field Sampling | | 1 | 332159 | 10/13/21 15:25 | SLD | TAL CF |

Client Sample ID: Field Blank

Lab Sample ID: 310-217572-20

Date Collected: 10/14/21 14:20

Matrix: Water

Date Received: 10/15/21 16:45

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Analysis | 9056A | | 1 | 332350 | 10/20/21 08:25 | JNR | TAL CF |
| Total/NA | Prep | 3010A | | | 331961 | 10/19/21 09:15 | CJT | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 333453 | 10/28/21 22:00 | SAP | TAL CF |
| Total/NA | Analysis | SM 2540C | | 1 | 332172 | 10/19/21 15:07 | ARG | TAL CF |
| Total/NA | Analysis | SM 4500 H+ B | | 1 | 331891 | 10/16/21 10:36 | GRS | TAL CF |

Laboratory References:

TAL CF = Eurofins TestAmerica, Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

Accreditation/Certification Summary

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-217572-1

Laboratory: Eurofins TestAmerica, Cedar Falls

The accreditations/certifications listed below are applicable to this report.

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| Iowa | State | 007 | 12-01-21 |

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Method Summary

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-217572-1

| Method | Method Description | Protocol | Laboratory |
|----------------|-------------------------------|----------|------------|
| 9056A | Anions, Ion Chromatography | SW846 | TAL CF |
| 6020A | Metals (ICP/MS) | SW846 | TAL CF |
| SM 2540C | Solids, Total Dissolved (TDS) | SM | TAL CF |
| SM 4500 H+ B | pH | SM | TAL CF |
| Field Sampling | Field Sampling | EPA | TAL CF |
| 3010A | Preparation, Total Metals | SW846 | TAL CF |

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CF = Eurofins TestAmerica, Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401



Environment Testing
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310-217572 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

| | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Client Information | | |
| Client: <u>SCS engineers</u> | | |
| City/State: <u>Clive</u> <small>CITY</small> <u>LA</u> <small>STATE</small> | Project: | |
| Receipt Information | | |
| Date/Time Received: <u>10/15/2021</u> <small>DATE</small> <u>1645</u> <small>TIME</small> | Received By: <u>TB</u> | |
| Delivery Type: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input checked="" type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____ | | |
| Condition of Cooler/Containers | | |
| Sample(s) received in Cooler? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If yes: Cooler ID: _____ |
| Multiple Coolers? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If yes: Cooler # <u>1</u> of <u>4</u> |
| Cooler Custody Seals Present? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If yes: Cooler custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Sample Custody Seals Present? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Trip Blank Present? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If yes: Which VOA samples are in cooler? ↓ |
| Temperature Record | | |
| Coolant: <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE | | |
| Thermometer ID: <u>0</u> | Correction Factor (°C): <u>0</u> | |
| • Temp: Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature | | |
| Uncorrected Temp (°C): <u>1.3</u> | Corrected Temp (°C): <u>1.3</u> | |
| • Sample Container Temperature | | |
| Container(s) used: | <u>CONTAINER 1</u> | <u>CONTAINER 2</u> |
| Uncorrected Temp (°C): | | |
| Corrected Temp (°C): | | |
| Exceptions Noted | | |
| 1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| 2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| NOTE: If yes, contact PM before proceeding. If no, proceed with login | | |
| Additional Comments | | |
| | | |
| | | |
| | | |



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Cooler/Sample Receipt and Temperature Log Form

| | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|--|
| Client Information | | | |
| Client: <u>SCS Engineers</u> | | | |
| City/State: <u>Clive</u> <small>CITY</small> | <u>LA</u> <small>STATE</small> | Project: | |
| Receipt Information | | | |
| Date/Time Received: <u>10/15/2021</u> <small>DATE</small> <u>11:45</u> <small>TIME</small> | Received By: <u>TB</u> | | |
| Delivery Type: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input checked="" type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____ | | | |
| Condition of Cooler/Containers | | | |
| Sample(s) received in Cooler? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If yes: Cooler ID: | |
| Multiple Coolers? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If yes: Cooler # <u>2</u> of <u>4</u> | |
| Cooler Custody Seals Present? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If yes: Cooler custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No | |
| Sample Custody Seals Present? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No | |
| Trip Blank Present? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If yes: Which VOA samples are in cooler? ↓ | |
| Temperature Record | | | |
| Coolant: <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE | | | |
| Thermometer ID: <u>0</u> | | Correction Factor (°C): <u>0</u> | |
| • Temp/Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature | | | |
| Uncorrected Temp (°C): <u>1.9</u> | | Corrected Temp (°C): <u>1.9</u> | |
| • Sample Container Temperature | | | |
| Container(s) used: | <u>+</u> <small>CONTAINER 1</small> | <small>CONTAINER 2</small> | |
| Uncorrected Temp (°C): | | | |
| Corrected Temp (°C): | | | |
| Exceptions Noted | | | |
| 1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No | | | |
| a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No | | | |
| 2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No | | | |
| NOTE: If yes, contact PM before proceeding. If no, proceed with login | | | |
| Additional Comments | | | |
| | | | |
| | | | |
| | | | |



Environment Testing
TestAmerica

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Cooler/Sample Receipt and Temperature Log Form

| | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|---------------------------------------------|-----------------------------------------------------------------------------------------------|
| Client Information | | | |
| Client: <u>SES engineers</u> | | | |
| City/State: | CITY <u>Clive</u> | STATE <u>LA</u> | Project: |
| Receipt Information | | | |
| Date/Time Received: | DATE <u>10/15/2021</u> | TIME <u>1045</u> | Received By: <u>TB</u> |
| Delivery Type: | <input type="checkbox"/> UPS | <input type="checkbox"/> FedEx | <input type="checkbox"/> FedEx Ground |
| | <input checked="" type="checkbox"/> Lab Courier | <input type="checkbox"/> Lab Field Services | <input type="checkbox"/> Client Drop-off |
| | <input type="checkbox"/> US Mail | <input type="checkbox"/> Spee-Dee | <input type="checkbox"/> Other: _____ |
| Condition of Cooler/Containers | | | |
| Sample(s) received in Cooler? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | If yes: Cooler ID: _____ |
| Multiple Coolers? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | If yes: Cooler # <u>B</u> of <u>4</u> |
| Cooler Custody Seals Present? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | If yes: Cooler custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Sample Custody Seals Present? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Trip Blank Present? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | If yes: Which VOA samples are in cooler? ↓ |
| Temperature Record | | | |
| Coolant: | <input checked="" type="checkbox"/> Wet ice | <input type="checkbox"/> Blue ice | <input type="checkbox"/> Dry ice |
| | <input type="checkbox"/> Other: _____ | <input type="checkbox"/> NONE | |
| Thermometer ID: <u>0</u> | Correction Factor (°C): <u>0</u> | | |
| • Temp. Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature | | | |
| Uncorrected Temp (°C): <u>1.8</u> | Corrected Temp (°C): <u>1.8</u> | | |
| Sample Container Temperature | | | |
| Container(s) used: | <u>CONTAINER 1</u> | <u>CONTAINER 2</u> | |
| Uncorrected Temp (°C): | | | |
| Corrected Temp (°C): | | | |
| Exceptions Noted | | | |
| 1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No | | | |
| a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No | | | |
| 2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No | | | |
| NOTE: If yes, contact PM before proceeding. If no, proceed with login | | | |
| Additional Comments | | | |
| <u>received empty, 1L water empty</u> | | | |
| <u>for mud-310A</u> | | | |



Environment Testing
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here

Cooler/Sample Receipt and Temperature Log Form

| Client Information | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Client: <u>SCS engineers</u> | | |
| City/State: <u>Clive</u> <small>CITY</small> <u>LA</u> <small>STATE</small> | Project: | |
| Receipt Information | | |
| Date/Time Received: <u>10/15/2021</u> <small>DATE</small> <u>1645</u> <small>TIME</small> | Received By: <u>TB</u> | |
| Delivery Type: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input checked="" type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____ | | |
| Condition of Cooler/Containers | | |
| Sample(s) received in Cooler? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If yes: Cooler ID: _____ |
| Multiple Coolers? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If yes: Cooler # <u>4</u> of <u>4</u> |
| Cooler Custody Seals Present? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If yes: Cooler custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Sample Custody Seals Present? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Trip Blank Present? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If yes: Which VOA samples are in cooler? ↓ |
| | | |
| | | |
| Temperature Record | | |
| Coolant: <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE | | |
| Thermometer ID: <u>0</u> | Correction Factor (°C): <u>0</u> | |
| • Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature | | |
| Uncorrected Temp (°C): <u>1.6</u> | Corrected Temp (°C): <u>1.6</u> | |
| • Sample Container Temperature | | |
| Container(s) used: | <u>CONTAINER 1</u> | <u>CONTAINER 2</u> |
| Uncorrected Temp (°C): | | |
| Corrected Temp (°C): | | |
| Exceptions Noted | | |
| 1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| 2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| NOTE: If yes, contact PM before proceeding. If no, proceed with login | | |
| Additional Comments | | |
| | | |
| | | |
| | | |

| | | | | | |
|--------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------|--|
| Client Information | | Sampler: Rosa Cruz | | Lab PM: Fredrick, Sandie | |
| Client Contact: Rosa Cruz | | Phone: 608-509-8245 | | E-Mail: sandra.fredrick@eurofins.net | |
| Company: SCS Engineers | | PWSID: | | COC No: 310-84601-14654.1 | |
| Address: 8450 Hickman Road, Suite 27 | | Due Date Requested: | | Carrier Tracking No(s): | |
| City: | | TAT Requested (days): | | State of Origin: | |
| Country: | | Compliance Project: A Yes A No | | Page: Page 1 of 2 | |
| State, Zip: IA, 50325 | | PC #: 25221066 | | Job #: | |
| Phone: | | WC #: 31011020 | | Preservation Codes: | |
| Email: rcruz@scsengineers.com | | Project #: | | A - ICL M - Hexane | |
| Project Name: Burlington Gen Station 25221066 | | SSCW#: | | B - NaOH N - Noise | |
| Site: | | Sample Date | | C - Zn Acetate O - Ash/O2 | |
| Sample Identification | | Sample Time | | D - Nitric Acid P - Na2SO4 | |
| MW-301 | | 10-13-21 9:05 | | E - NaHSO4 R - Na2SO3 | |
| MW-302 | | 10-12-21 14:40 | | F - MeOH S - H2SO4 | |
| MW-302A | | 10-12-21 15:40 | | G - Amchlor T - TSP Dodecylsulfate | |
| MW-303 | | 10-13-21 10:05 | | H - Ascorbic Acid U - Acetone | |
| MW-304 | | 10-13-21 11:50 | | I - Ice Water V - MCAA | |
| MW-305 | | 10-14-21 12:30 | | J - DI Water W - pH 4-5 | |
| MW-306 | | 10-11-21 14:00 | | K - EDTA X - Other (specify) | |
| MW-307 | | 10-11-21 15:35 | | L - EDA Z - dimer (specify) | |
| MW-307A | | 10-11-21 17:50 | | Other: | |
| MW-307B | | 10-11-21 17:00 | | Total Number of Containers | |
| MW-308 | | 10-12-21 13:30 | | Special Instructions/Note: | |
| Possible Hazard Identification | | <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Radiological | | Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) | |
| Deliverable Requested: I, II, III, IV, Other (specify) | | <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological | | <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months | |
| Empty Kit Relinquished by | | Time: | | Method of Shipment | |
| Relinquished by: Rosa Cruz | | Date/Time: 10-15-21 13:30 | | Date/Time: 10/15/21 - 13:30 | |
| Relinquished by: | | Date/Time: | | Date/Time: 10/15/21 1645 | |
| Relinquished by: | | Date/Time: | | Company: SCS Company | |
| Custody Seals Intact: A Yes A No | | Custody Seal No.: | | Company: SCS Company | |

| | | | | | |
|-------------------------------------------------|--|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| Client Information | | | COC No 310-64661-14654.2 | | |
| Sampler <i>Rosa Cruz</i> | | | Carrier Tracking No(s) | | |
| Lab PM: Fredrick, Sandie | | | State of Origin | | |
| Client Contact Rosa Cruz | | | E-Mail sandora.fredrick@eurofinset.com | | |
| Company SCS Engineers | | | Page Page 2 of 2 | | |
| Address 8450 Hickman Road Suite 27 | | | Job # | | |
| City Crove | | | Analysis Requested | | |
| State, Zip IA, 50325 | | | Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Decadecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify) | | |
| Phone 2522-1066 | | | Other: | | |
| Email rcruz@scsengineers.com | | | Total Number of containers | | |
| Project Name Burlington Gen Station 25221066 | | | Special Instructions/Note: | | |
| Site SS0W# | | | | | |

| Sample Identification | Sample Date | Sample Time | Sample Type (C=Comp, G=grab) | Matrix (W=water, E=solid, O=wasteoil, BI=tissue, A=air) | Perform MS/MSD (Yes or No) | | Field Filtered Sample (Yes or No) | |
|-----------------------|-------------|-------------|------------------------------|---------------------------------------------------------|----------------------------|---|-----------------------------------|---|
| | | | | | D | N | D | N |
| MW-309 | 10-12-21 | 12:20 | G | Water | X | X | X | X |
| MW-310A | 10-14-21 | 9:36 | G | Water | X | X | X | X |
| MW-310X | 10-12-21 | 9:15 | G | Water | X | X | X | X |
| MW-311 | 10-12-21 | 11:00 | G | Water | X | X | X | X |
| MW-312 | 10-14-21 | 11:10 | G | Water | X | X | X | X |
| MW-313 | 10-13-21 | 13:00 | G | Water | X | X | X | X |
| MW-313A | 10-13-21 | 14:00 | G | Water | X | X | X | X |
| MW-313B | 10-13-21 | 15:25 | G | Water | X | X | X | X |
| Field Blank | 10-14-21 | 14:20 | G | Water | X | X | X | X |

| | |
|----------------------------------------|---------------------------------------|
| Possible Hazard Identification | |
| <input type="checkbox"/> Non-Hazard | <input type="checkbox"/> Flammable |
| <input type="checkbox"/> Poison B | <input type="checkbox"/> Unknown |
| <input type="checkbox"/> Skin Irritant | <input type="checkbox"/> Radiological |

Deliverable Requested: I, II, III, IV, Other (specify)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/QC Requirements:

Table 1. Sampling Points and Parameters - CCR Rule Sampling Program Assessments Monitoring Groundwater Monitoring - Burlington Generating Station / SCS Engineers Project #25221066

| Parameter | MW-301 | MW-302 | MW-302A | MW-303 | MW-304 | MW-305 | MW-306 | MW-307 | MW-307A | MW-307B | MW-308 | MW-309 | MW-310 | MW-310A | MW-311 | MW-312 | MW-313 | MW-313A | MW-313B | Field Blank | TOTAL | |
|------------------------------------------------------|--------|--------|---------|--------|--------|--------|--------|--------|---------|---------|--------|--------|--------|---------|--------|--------|--------|---------|---------|-------------|-------|----|
| Appendix III Parameters | | | | | | | | | | | | | | | | | | | | | | |
| Boron | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 20 |
| Calcium | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 20 |
| Chloride | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 20 |
| Fluoride | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 20 |
| pH | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 20 |
| Sulfate | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 20 |
| TDS | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 20 |
| Appendix IV Parameters | | | | | | | | | | | | | | | | | | | | | | |
| Antimony | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 20 |
| Arsenic | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 20 |
| Barium | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 20 |
| Beryllium | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 20 |
| Cadmium | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 20 |
| Chromium | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 20 |
| Cobalt | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 20 |
| Fluoride | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 20 |
| Lead | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 20 |
| Lithium | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 20 |
| Mercury | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 20 |
| Molybdenum | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 20 |
| Selenium | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 20 |
| Thallium | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 20 |
| Radium (report separately) | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 20 |
| Field Parameters | | | | | | | | | | | | | | | | | | | | | | |
| Ferrous Iron (ChemMetres) | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 19 |
| Sulfide (ChemMetres) | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 19 |
| Groundwater Elevation | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 19 |
| Well Depth | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 19 |
| pH (field) | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 19 |
| Specific Conductance | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 19 |
| Dissolved Oxygen | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 19 |
| ORP | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 19 |
| Temperature | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 19 |
| Turbidity | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 19 |
| Color | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 19 |
| Odor | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 19 |
| Additional Lab Parameters - REPORT SEPARATELY | | | | | | | | | | | | | | | | | | | | | | |
| Bicarbonate (total) | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 20 |
| Carbonate (total) | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 20 |
| Iron (total) | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 20 |
| Magnesium (total) | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 20 |
| Manganese (total) | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 20 |
| Potassium (total) | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 20 |
| Sodium (total) | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 20 |
| Iron (filtered) | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 19 |
| Lithium (filtered) | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 19 |
| Manganese (filtered) | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 19 |
| Molybdenum (filtered) | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 19 |

Notes:
 \\Maad-1401\data\Projects\25221066.00\Data and Calculations\Field Work Requests\Table_1_BGS_CCR_Rule_Sampling_2110.xls\Sheet1



Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-217572-1

Login Number: 217572

List Source: Eurofins TestAmerica, Cedar Falls

List Number: 1

Creator: Homolar, Dana J

| Question | Answer | Comment |
|-----------------------------------------------------------------------------------------------------|--------|---------|
| Radioactivity wasn't checked or is \leq background as measured by a survey meter. | N/A | |
| The cooler's custody seal, if present, is intact. | N/A | |
| Sample custody seals, if present, are intact. | N/A | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

Table 1. Groundwater Monitoring Results - Field Parameters
Burlington Generating Station / SCS Engineers Project #25221066.00
October 2021

| Sample | Sample Date/Time | Temperature (Deg. C) | pH (Std. Units) | Dissolved Oxygen (mg/L) | Specific Conductivity (µmhos/cm) | ORP (mV) | Turbidity | Groundwater Elevation (amsl) |
|---------|------------------|----------------------|-----------------|-------------------------|----------------------------------|----------|-----------|------------------------------|
| MW-301 | 10/13/2021 9:05 | 13.6 | 7.01 | 0.17 | 1,858 | -142.8 | 14.1 | 519.40 |
| MW-302 | 10/12/2021 14:40 | 13.8 | 8.28 | 0.18 | 1,043 | -193.7 | 31.20 | 518.75 |
| MW-302A | 10/12/2021 15:40 | 13.6 | 7.69 | 0.26 | 1,124 | -115.3 | 11.2 | 518.64 |
| MW-303 | 10/13/2021 10:05 | 13.9 | 7.25 | 0.16 | 843 | -118.4 | 13.6 | 518.58 |
| MW-304 | 10/13/2021 11:50 | 14.5 | 7.53 | 0.15 | 806 | -149.0 | 7.7 | 518.68 |
| MW-305 | 10/14/2021 12:30 | 14.7 | 7.24 | 0.17 | 911 | -95.1 | 9.0 | 519.18 |
| MW-306 | 10/11/2021 14:00 | 16.0 | 5.83 | 0.28 | 476.1 | 12.3 | 6.9 | 519.15 |
| MW-307 | 10/11/2021 15:35 | 14.4 | 9.89 | 0.16 | 547.9 | -215.3 | 8.2 | 519.55 |
| MW-307A | 10/11/2021 17:50 | 14.4 | 7.83 | 0.12 | 551.0 | -133.4 | 7.40 | 519.09 |
| MW-307B | 10/11/2021 17:00 | 14.4 | 7.72 | 0.10 | 459.6 | -130.6 | 10.10 | 519.13 |
| MW-308 | 10/12/2021 13:36 | 15.0 | 9.97 | 0.06 | 728 | -219.8 | 8.8 | 519.25 |
| MW-309 | 10/12/2021 12:20 | 15.3 | 7.18 | 0.17 | 927 | -155.1 | 19.6 | 519.43 |
| MW-310 | 10/12/2021 9:15 | 17.3 | 7.22 | 0.18 | 668 | -181.6 | 11.4 | 524.69 |
| MW-310A | 10/12/2021 9:30 | 15.5 | 7.07 | 2.04 | 842 | 153.3 | 80 | 521.83 |
| MW-311 | 10/12/2021 11:00 | 14.9 | 7.17 | 0.17 | 1,431 | -157.6 | 11.1 | 522.00 |
| MW-312 | 10/14/2021 11:10 | 15.7 | 7.20 | 0.20 | 688 | -143.4 | 13.1 | 518.78 |
| MW-313 | 10/13/2021 13:00 | 15.9 | 7.25 | 0.10 | 1,198 | -117.9 | 24.8 | 518.72 |
| MW-313A | 10/13/2021 14:00 | 15.4 | 7.53 | 0.11 | 757 | -117.7 | 7.7 | 518.62 |
| MW-313B | 10/13/2021 15:25 | 15.4 | 7.54 | 0.09 | 714 | -90.8 | 8.6 | 518.72 |

Abbreviations:

mg/L = milligrams per liter
mV = millivolts

amsl = above mean sea level
µmhos/cm = micromohs per cm

-- = Not Applicable
NM = not measured

Created by: NDK
Last revision by: LMH
Checked by: NDK

Date: 10/15/2021
Date: 10/18/2021
Date: 10/18/2021

C:\Users\Fredricks\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\JMC6UT65\[2110 - BGS_CCR_Field.xlsx]GW Field Parameters

ANALYTICAL REPORT

Eurofins TestAmerica, Cedar Falls
3019 Venture Way
Cedar Falls, IA 50613
Tel: (319)277-2401

Laboratory Job ID: 310-217572-2

Client Project/Site: Burlington Gen Station 25221066

For:

SCS Engineers
2830 Dairy Drive
Madison, Wisconsin 53718

Attn: Meghan Blodgett



*Authorized for release by:
11/29/2021 7:24:35 AM*

Sandie Fredrick, Project Manager II
(920)261-1660
sandra.fredrick@eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Case Narrative

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-217572-2

Job ID: 310-217572-2

Laboratory: Eurofins TestAmerica, Cedar Falls

Narrative

Job Narrative 310-217572-2

Comments

No additional comments.

Receipt

The samples were received on 10/15/2021 4:45 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 1.3° C, 1.6° C, 1.8° C and 1.9° C.

RAD

Method 903.0: Radium 226 batch 533168

The detection goal was not met for the following sample due to a reduced aliquot and low barium carrier recovery, which can be attributed to matrix interference: MW-310A (310-217572-13). Analytical results are reported with the detection limit achieved.

Method 903.0: Radium 226 batch 533168

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. MW-301 (310-217572-1), MW-302 (310-217572-2), MW-302A (310-217572-3), MW-303 (310-217572-4), MW-304 (310-217572-5), MW-305 (310-217572-6), MW-306 (310-217572-7), MW-307 (310-217572-8), MW-307A (310-217572-9), MW-307B (310-217572-10), MW-308 (310-217572-11), MW-309 (310-217572-12), MW-310A (310-217572-13), MW-310 (310-217572-14), MW-311 (310-217572-15), MW-312 (310-217572-16), MW-313 (310-217572-17), MW-313A (310-217572-18), MW-313B (310-217572-19), Field Blank (310-217572-20), (LCS 160-533168/1-A), (LCSD 160-533168/2-A) and (MB 160-533168/23-A)

Method 904.0: 904 batch 160-533170

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. MW-301 (310-217572-1), MW-302 (310-217572-2), MW-302A (310-217572-3), MW-303 (310-217572-4), MW-304 (310-217572-5), MW-305 (310-217572-6), MW-306 (310-217572-7), MW-307 (310-217572-8), MW-307A (310-217572-9), MW-307B (310-217572-10), MW-308 (310-217572-11), MW-309 (310-217572-12), MW-310A (310-217572-13), MW-310 (310-217572-14), MW-311 (310-217572-15), MW-312 (310-217572-16), MW-313 (310-217572-17), MW-313A (310-217572-18), Field Blank (310-217572-20), (LCS 160-533170/1-A), (LCSD 160-533170/2-A) and (MB 160-533170/23-A)

Method 904.0: 904 batch 160-533170

The detection goal was not met for the following sample due to a reduced aliquot and low carrier recovery, which can be attributed to the presence of matrix interferences noted during the initial preparation: MW-310A (310-217572-13). An extended count is not possible due to the short half-life of yttrium; therefore, analytical results are reported with the detection limit achieved.

Method 904.0: 904 batch 160-533170

The Barium carrier recovery was below the lower control limit of 40% (22.8%) for the following sample: MW-310A (310-217572-13). There was physical evidence of matrix interference apparent during the initial preparation of the sample. The QC samples associated with the batch have acceptable carrier recovery indicating the presence of matrix interference.

Method 904.0: Radium 228 batch 536650

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. MW-313B (310-217572-19), (LCS 160-536650/1-A), (LCSD 160-536650/2-A) and (MB 160-536650/4-A)

Method PrecSep_0: Radium-228 Prep Batch 160-533170

The following samples were prepared at a reduced aliquot due to Matrix: MW-301 (310-217572-1), MW-302 (310-217572-2), MW-302A (310-217572-3), MW-303 (310-217572-4), MW-304 (310-217572-5), MW-305 (310-217572-6), MW-306 (310-217572-7), MW-307 (310-217572-8), MW-307A (310-217572-9), MW-307B (310-217572-10), MW-308 (310-217572-11), MW-309 (310-217572-12), MW-310A (310-217572-13), MW-310 (310-217572-14), MW-311 (310-217572-15), MW-312 (310-217572-16), MW-313 (310-217572-17), MW-313A (310-217572-18) and MW-313B (310-217572-19). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were

Case Narrative

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-217572-2

Job ID: 310-217572-2 (Continued)

Laboratory: Eurofins TestAmerica, Cedar Falls (Continued)

prepared instead of a sample duplicate (DUP) to demonstrate batch precision.

Method PrecSep_0: Radium-228 Prep Batch 160-533170

Insufficient sample volume was available to perform a sample duplicate for the following samples: Field Blank (310-217572-20). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep_0: Radium 226 Prep Batch 160-533168

The Radium 226 carrier recovery is outside the lower control limit (40%) for the following sample: MW-310A (310-217572-13). There was physical evidence of matrix interference apparent during the initial preparation of the sample. The QC samples associated with the batch have acceptable carrier recovery indicating the presence of matrix interference.

Method PrecSep_0: Radium-228 Prep Batch 160-536650

The following samples were prepared at a reduced aliquot due to Matrix: MW-313B (310-217572-19). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead of a sample duplicate (DUP) to demonstrate batch precision.

Method PrecSep-21: Radium-226 Prep Batch 160-533168

The following samples were prepared at a reduced aliquot due to Matrix: MW-301 (310-217572-1), MW-302 (310-217572-2), MW-302A (310-217572-3), MW-303 (310-217572-4), MW-304 (310-217572-5), MW-305 (310-217572-6), MW-306 (310-217572-7), MW-307 (310-217572-8), MW-307A (310-217572-9), MW-307B (310-217572-10), MW-308 (310-217572-11), MW-309 (310-217572-12), MW-310A (310-217572-13), MW-310 (310-217572-14), MW-311 (310-217572-15), MW-312 (310-217572-16), MW-313 (310-217572-17), MW-313A (310-217572-18) and MW-313B (310-217572-19). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead of a sample duplicate (DUP) to demonstrate batch precision.

Method PrecSep-21: Radium-226 Prep Batch 160-533168

Insufficient sample volume was available to perform a sample duplicate for the following samples: Field Blank (310-217572-20). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep-21: Radium 226 Prep Batch 160-533168

The Radium 226 carrier recovery is outside the lower control limit (40%) for the following sample: MW-310A (310-217572-13). There was physical evidence of matrix interference apparent during the initial preparation of the sample. The QC samples associated with the batch have acceptable carrier recovery indicating the presence of matrix interference.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Sample Summary

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-217572-2

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 310-217572-1 | MW-301 | Water | 10/13/21 09:05 | 10/15/21 16:45 |
| 310-217572-2 | MW-302 | Water | 10/12/21 14:40 | 10/15/21 16:45 |
| 310-217572-3 | MW-302A | Water | 10/12/21 15:40 | 10/15/21 16:45 |
| 310-217572-4 | MW-303 | Water | 10/13/21 10:05 | 10/15/21 16:45 |
| 310-217572-5 | MW-304 | Water | 10/13/21 11:50 | 10/15/21 16:45 |
| 310-217572-6 | MW-305 | Water | 10/14/21 12:30 | 10/15/21 16:45 |
| 310-217572-7 | MW-306 | Water | 10/11/21 14:00 | 10/15/21 16:45 |
| 310-217572-8 | MW-307 | Water | 10/11/21 15:35 | 10/15/21 16:45 |
| 310-217572-9 | MW-307A | Water | 10/11/21 17:50 | 10/15/21 16:45 |
| 310-217572-10 | MW-307B | Water | 10/11/21 17:00 | 10/15/21 16:45 |
| 310-217572-11 | MW-308 | Water | 10/12/21 13:36 | 10/15/21 16:45 |
| 310-217572-12 | MW-309 | Water | 10/12/21 12:20 | 10/15/21 16:45 |
| 310-217572-13 | MW-310A | Water | 10/14/21 09:30 | 10/15/21 16:45 |
| 310-217572-14 | MW-310 | Water | 10/12/21 09:15 | 10/15/21 16:45 |
| 310-217572-15 | MW-311 | Water | 10/12/21 11:00 | 10/15/21 16:45 |
| 310-217572-16 | MW-312 | Water | 10/14/21 11:10 | 10/15/21 16:45 |
| 310-217572-17 | MW-313 | Water | 10/13/21 13:00 | 10/15/21 16:45 |
| 310-217572-18 | MW-313A | Water | 10/13/21 14:00 | 10/15/21 16:45 |
| 310-217572-19 | MW-313B | Water | 10/13/21 15:25 | 10/15/21 16:45 |
| 310-217572-20 | Field Blank | Water | 10/14/21 14:20 | 10/15/21 16:45 |



Detection Summary

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-217572-2

| | |
|-----------------------------------------|-------------------------------------|
| Client Sample ID: MW-301 | Lab Sample ID: 310-217572-1 |
| <input type="checkbox"/> No Detections. | |
| Client Sample ID: MW-302 | Lab Sample ID: 310-217572-2 |
| <input type="checkbox"/> No Detections. | |
| Client Sample ID: MW-302A | Lab Sample ID: 310-217572-3 |
| <input type="checkbox"/> No Detections. | |
| Client Sample ID: MW-303 | Lab Sample ID: 310-217572-4 |
| <input type="checkbox"/> No Detections. | |
| Client Sample ID: MW-304 | Lab Sample ID: 310-217572-5 |
| <input type="checkbox"/> No Detections. | |
| Client Sample ID: MW-305 | Lab Sample ID: 310-217572-6 |
| <input type="checkbox"/> No Detections. | |
| Client Sample ID: MW-306 | Lab Sample ID: 310-217572-7 |
| <input type="checkbox"/> No Detections. | |
| Client Sample ID: MW-307 | Lab Sample ID: 310-217572-8 |
| <input type="checkbox"/> No Detections. | |
| Client Sample ID: MW-307A | Lab Sample ID: 310-217572-9 |
| <input type="checkbox"/> No Detections. | |
| Client Sample ID: MW-307B | Lab Sample ID: 310-217572-10 |
| <input type="checkbox"/> No Detections. | |
| Client Sample ID: MW-308 | Lab Sample ID: 310-217572-11 |
| <input type="checkbox"/> No Detections. | |
| Client Sample ID: MW-309 | Lab Sample ID: 310-217572-12 |
| <input type="checkbox"/> No Detections. | |
| Client Sample ID: MW-310A | Lab Sample ID: 310-217572-13 |
| <input type="checkbox"/> No Detections. | |
| Client Sample ID: MW-310 | Lab Sample ID: 310-217572-14 |
| <input type="checkbox"/> No Detections. | |
| Client Sample ID: MW-311 | Lab Sample ID: 310-217572-15 |
| <input type="checkbox"/> No Detections. | |
| Client Sample ID: MW-312 | Lab Sample ID: 310-217572-16 |
| <input type="checkbox"/> No Detections. | |

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Cedar Falls

Detection Summary

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-217572-2

Client Sample ID: MW-313

Lab Sample ID: 310-217572-17

No Detections.

Client Sample ID: MW-313A

Lab Sample ID: 310-217572-18

No Detections.

Client Sample ID: MW-313B

Lab Sample ID: 310-217572-19

No Detections.

Client Sample ID: Field Blank

Lab Sample ID: 310-217572-20

No Detections.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Cedar Falls

Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-217572-2

Client Sample ID: MW-301

Lab Sample ID: 310-217572-1

Date Collected: 10/13/21 09:05

Matrix: Water

Date Received: 10/15/21 16:45

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium 226 | 0.406 | | 0.230 | 0.233 | 1.00 | 0.302 | pCi/L | 10/22/21 09:55 | 11/16/21 10:33 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba | 62.3 | | 40 - 110 | | | | | 10/22/21 09:55 | 11/16/21 10:33 | 1 |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium 228 | 0.564 | U | 0.462 | 0.465 | 1.00 | 0.727 | pCi/L | 10/22/21 10:38 | 11/12/21 17:07 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba | 62.3 | | 40 - 110 | | | | | 10/22/21 10:38 | 11/12/21 17:07 | 1 |
| Y Carrier | 78.1 | | 40 - 110 | | | | | 10/22/21 10:38 | 11/12/21 17:07 | 1 |

Method: Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|--------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Radium 226 and 228 | 0.970 | | 0.516 | 0.520 | 5.00 | 0.727 | pCi/L | | 11/28/21 23:43 | 1 |

Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-217572-2

Client Sample ID: MW-302

Lab Sample ID: 310-217572-2

Date Collected: 10/12/21 14:40

Matrix: Water

Date Received: 10/15/21 16:45

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium 226 | 0.605 | | 0.227 | 0.234 | 1.00 | 0.251 | pCi/L | 10/22/21 09:55 | 11/16/21 10:34 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba | 82.8 | | 40 - 110 | | | | | 10/22/21 09:55 | 11/16/21 10:34 | 1 |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium 228 | 0.611 | U | 0.448 | 0.452 | 1.00 | 0.704 | pCi/L | 10/22/21 10:38 | 11/12/21 17:08 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba | 82.8 | | 40 - 110 | | | | | 10/22/21 10:38 | 11/12/21 17:08 | 1 |
| Y Carrier | 79.6 | | 40 - 110 | | | | | 10/22/21 10:38 | 11/12/21 17:08 | 1 |

Method: Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|--------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Radium 226 and 228 | 1.22 | | 0.502 | 0.509 | 5.00 | 0.704 | pCi/L | | 11/28/21 23:43 | 1 |

Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-217572-2

Client Sample ID: MW-302A

Lab Sample ID: 310-217572-3

Date Collected: 10/12/21 15:40

Matrix: Water

Date Received: 10/15/21 16:45

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium 226 | 0.854 | | 0.319 | 0.328 | 1.00 | 0.370 | pCi/L | 10/22/21 09:55 | 11/16/21 10:34 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba | 67.5 | | 40 - 110 | | | | | 10/22/21 09:55 | 11/16/21 10:34 | 1 |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium 228 | 1.22 | | 0.544 | 0.556 | 1.00 | 0.774 | pCi/L | 10/22/21 10:38 | 11/12/21 17:08 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba | 67.5 | | 40 - 110 | | | | | 10/22/21 10:38 | 11/12/21 17:08 | 1 |
| Y Carrier | 80.0 | | 40 - 110 | | | | | 10/22/21 10:38 | 11/12/21 17:08 | 1 |

Method: Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|--------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Radium 226 and 228 | 2.08 | | 0.631 | 0.646 | 5.00 | 0.774 | pCi/L | | 11/28/21 23:43 | 1 |

Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-217572-2

Client Sample ID: MW-303

Lab Sample ID: 310-217572-4

Date Collected: 10/13/21 10:05

Matrix: Water

Date Received: 10/15/21 16:45

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium 226 | 0.628 | | 0.276 | 0.282 | 1.00 | 0.338 | pCi/L | 10/22/21 09:55 | 11/16/21 10:34 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba | 67.3 | | 40 - 110 | | | | | 10/22/21 09:55 | 11/16/21 10:34 | 1 |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium 228 | 0.0509 | U | 0.404 | 0.404 | 1.00 | 0.724 | pCi/L | 10/22/21 10:38 | 11/12/21 17:08 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba | 67.3 | | 40 - 110 | | | | | 10/22/21 10:38 | 11/12/21 17:08 | 1 |
| Y Carrier | 78.1 | | 40 - 110 | | | | | 10/22/21 10:38 | 11/12/21 17:08 | 1 |

Method: Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|--------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Radium 226 and 228 | 0.678 | U | 0.489 | 0.493 | 5.00 | 0.724 | pCi/L | | 11/28/21 23:43 | 1 |

Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-217572-2

Client Sample ID: MW-304

Lab Sample ID: 310-217572-5

Date Collected: 10/13/21 11:50

Matrix: Water

Date Received: 10/15/21 16:45

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium 226 | 0.201 | U | 0.175 | 0.176 | 1.00 | 0.271 | pCi/L | 10/22/21 09:55 | 11/16/21 10:36 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba | 88.5 | | 40 - 110 | | | | | 10/22/21 09:55 | 11/16/21 10:36 | 1 |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|-------------------|--------------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium 228 | 0.596 | | 0.382 | 0.386 | 1.00 | 0.582 | pCi/L | 10/22/21 10:38 | 11/12/21 17:08 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba | 88.5 | | 40 - 110 | | | | | 10/22/21 10:38 | 11/12/21 17:08 | 1 |
| Y Carrier | 77.4 | | 40 - 110 | | | | | 10/22/21 10:38 | 11/12/21 17:08 | 1 |

Method: Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|---------------------------|--------------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Radium 226 and 228 | 0.797 | | 0.420 | 0.424 | 5.00 | 0.582 | pCi/L | | 11/28/21 23:43 | 1 |

Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-217572-2

Client Sample ID: MW-305

Lab Sample ID: 310-217572-6

Date Collected: 10/14/21 12:30

Matrix: Water

Date Received: 10/15/21 16:45

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium 226 | 0.332 | | 0.191 | 0.194 | 1.00 | 0.261 | pCi/L | 10/22/21 09:55 | 11/16/21 10:36 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba | 82.8 | | 40 - 110 | | | | | 10/22/21 09:55 | 11/16/21 10:36 | 1 |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium 228 | 0.539 | U | 0.425 | 0.428 | 1.00 | 0.671 | pCi/L | 10/22/21 10:38 | 11/12/21 17:08 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba | 82.8 | | 40 - 110 | | | | | 10/22/21 10:38 | 11/12/21 17:08 | 1 |
| Y Carrier | 75.5 | | 40 - 110 | | | | | 10/22/21 10:38 | 11/12/21 17:08 | 1 |

Method: Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|--------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Radium 226 and 228 | 0.871 | | 0.466 | 0.470 | 5.00 | 0.671 | pCi/L | | 11/28/21 23:43 | 1 |

Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-217572-2

Client Sample ID: MW-306

Lab Sample ID: 310-217572-7

Date Collected: 10/11/21 14:00

Matrix: Water

Date Received: 10/15/21 16:45

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium 226 | 0.110 | U | 0.156 | 0.156 | 1.00 | 0.263 | pCi/L | 10/22/21 09:55 | 11/16/21 10:36 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba | 86.8 | | 40 - 110 | | | | | 10/22/21 09:55 | 11/16/21 10:36 | 1 |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|---------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium 228 | 0.00348 | U | 0.345 | 0.345 | 1.00 | 0.619 | pCi/L | 10/22/21 10:38 | 11/12/21 17:09 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba | 86.8 | | 40 - 110 | | | | | 10/22/21 10:38 | 11/12/21 17:09 | 1 |
| Y Carrier | 81.9 | | 40 - 110 | | | | | 10/22/21 10:38 | 11/12/21 17:09 | 1 |

Method: Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|--------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Radium 226 and 228 | 0.114 | U | 0.379 | 0.379 | 5.00 | 0.619 | pCi/L | | 11/28/21 23:43 | 1 |

Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-217572-2

Client Sample ID: MW-307
Date Collected: 10/11/21 15:35
Date Received: 10/15/21 16:45

Lab Sample ID: 310-217572-8
Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium 226 | 0.103 | U | 0.154 | 0.154 | 1.00 | 0.262 | pCi/L | 10/22/21 09:55 | 11/16/21 10:36 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba | 85.0 | | 40 - 110 | | | | | 10/22/21 09:55 | 11/16/21 10:36 | 1 |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|-------------------|-------------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium 228 | 1.04 | | 0.405 | 0.416 | 1.00 | 0.551 | pCi/L | 10/22/21 10:38 | 11/12/21 17:09 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba | 85.0 | | 40 - 110 | | | | | 10/22/21 10:38 | 11/12/21 17:09 | 1 |
| Y Carrier | 83.0 | | 40 - 110 | | | | | 10/22/21 10:38 | 11/12/21 17:09 | 1 |

Method: Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|---------------------------|-------------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Radium 226 and 228 | 1.14 | | 0.433 | 0.444 | 5.00 | 0.551 | pCi/L | | 11/28/21 23:43 | 1 |

Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-217572-2

Client Sample ID: MW-307A

Lab Sample ID: 310-217572-9

Date Collected: 10/11/21 17:50

Matrix: Water

Date Received: 10/15/21 16:45

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium 226 | 0.0614 | U | 0.147 | 0.147 | 1.00 | 0.263 | pCi/L | 10/22/21 09:55 | 11/16/21 14:46 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba | 90.0 | | 40 - 110 | | | | | 10/22/21 09:55 | 11/16/21 14:46 | 1 |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|-------------------|--------------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium 228 | 0.920 | | 0.429 | 0.437 | 1.00 | 0.621 | pCi/L | 10/22/21 10:38 | 11/12/21 17:09 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba | 90.0 | | 40 - 110 | | | | | 10/22/21 10:38 | 11/12/21 17:09 | 1 |
| Y Carrier | 81.1 | | 40 - 110 | | | | | 10/22/21 10:38 | 11/12/21 17:09 | 1 |

Method: Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|---------------------------|--------------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Radium 226 and 228 | 0.981 | | 0.453 | 0.461 | 5.00 | 0.621 | pCi/L | | 11/28/21 23:43 | 1 |

Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-217572-2

Client Sample ID: MW-307B

Lab Sample ID: 310-217572-10

Date Collected: 10/11/21 17:00

Matrix: Water

Date Received: 10/15/21 16:45

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium 226 | 0.377 | | 0.179 | 0.182 | 1.00 | 0.228 | pCi/L | 10/22/21 09:55 | 11/16/21 14:47 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba | 96.3 | | 40 - 110 | | | | | 10/22/21 09:55 | 11/16/21 14:47 | 1 |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium 228 | 1.01 | | 0.418 | 0.428 | 1.00 | 0.595 | pCi/L | 10/22/21 10:38 | 11/12/21 17:09 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba | 96.3 | | 40 - 110 | | | | | 10/22/21 10:38 | 11/12/21 17:09 | 1 |
| Y Carrier | 81.5 | | 40 - 110 | | | | | 10/22/21 10:38 | 11/12/21 17:09 | 1 |

Method: Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|--------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Radium 226 and 228 | 1.38 | | 0.455 | 0.465 | 5.00 | 0.595 | pCi/L | | 11/28/21 23:43 | 1 |

Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-217572-2

Client Sample ID: MW-308
Date Collected: 10/12/21 13:36
Date Received: 10/15/21 16:45

Lab Sample ID: 310-217572-11
Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium 226 | -0.00135 | U | 0.129 | 0.129 | 1.00 | 0.254 | pCi/L | 10/22/21 09:55 | 11/16/21 14:47 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba | 88.8 | | 40 - 110 | | | | | 10/22/21 09:55 | 11/16/21 14:47 | 1 |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium 228 | 0.000 | U | 0.324 | 0.324 | 1.00 | 0.587 | pCi/L | 10/22/21 10:38 | 11/12/21 17:09 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba | 88.8 | | 40 - 110 | | | | | 10/22/21 10:38 | 11/12/21 17:09 | 1 |
| Y Carrier | 79.6 | | 40 - 110 | | | | | 10/22/21 10:38 | 11/12/21 17:09 | 1 |

Method: Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|--------------------|----------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Radium 226 and 228 | -0.00135 | U | 0.349 | 0.349 | 5.00 | 0.587 | pCi/L | | 11/28/21 23:43 | 1 |

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Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-217572-2

Client Sample ID: MW-309

Lab Sample ID: 310-217572-12

Date Collected: 10/12/21 12:20

Matrix: Water

Date Received: 10/15/21 16:45

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium 226 | 0.553 | | 0.206 | 0.212 | 1.00 | 0.235 | pCi/L | 10/22/21 09:55 | 11/16/21 14:47 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba | 95.3 | | 40 - 110 | | | | | 10/22/21 09:55 | 11/16/21 14:47 | 1 |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium 228 | 0.0650 | U | 0.375 | 0.375 | 1.00 | 0.655 | pCi/L | 10/22/21 10:38 | 11/12/21 17:09 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba | 95.3 | | 40 - 110 | | | | | 10/22/21 10:38 | 11/12/21 17:09 | 1 |
| Y Carrier | 85.6 | | 40 - 110 | | | | | 10/22/21 10:38 | 11/12/21 17:09 | 1 |

Method: Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|--------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Radium 226 and 228 | 0.618 | U | 0.428 | 0.431 | 5.00 | 0.655 | pCi/L | | 11/28/21 23:43 | 1 |

Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-217572-2

Client Sample ID: MW-310A

Lab Sample ID: 310-217572-13

Date Collected: 10/14/21 09:30

Matrix: Water

Date Received: 10/15/21 16:45

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|------|-------|----------------|----------------|---------|
| Radium 226 | 1.44 | G | 0.919 | 0.928 | 1.00 | 1.30 | pCi/L | 10/22/21 09:55 | 11/16/21 14:49 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba | 22.8 | X | 40 - 110 | | | | | 10/22/21 09:55 | 11/16/21 14:49 | 1 |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|------|-------|----------------|----------------|---------|
| Radium 228 | 2.76 | U G | 2.16 | 2.17 | 1.00 | 3.39 | pCi/L | 10/22/21 10:38 | 11/12/21 17:09 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba | 22.8 | X | 40 - 110 | | | | | 10/22/21 10:38 | 11/12/21 17:09 | 1 |
| Y Carrier | 78.1 | | 40 - 110 | | | | | 10/22/21 10:38 | 11/12/21 17:09 | 1 |

Method: Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|--------------------|--------|-----------|-----------------------------|-----------------------------|------|------|-------|----------|----------------|---------|
| Radium 226 and 228 | 4.20 | | 2.35 | 2.36 | 5.00 | 3.39 | pCi/L | | 11/28/21 23:43 | 1 |

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Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-217572-2

Client Sample ID: MW-310
 Date Collected: 10/12/21 09:15
 Date Received: 10/15/21 16:45

Lab Sample ID: 310-217572-14
 Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium 226 | 0.161 | U | 0.180 | 0.181 | 1.00 | 0.293 | pCi/L | 10/22/21 09:55 | 11/16/21 14:49 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba | 87.5 | | 40 - 110 | | | | | 10/22/21 09:55 | 11/16/21 14:49 | 1 |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|-------------------|-------------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium 228 | 1.09 | | 0.418 | 0.430 | 1.00 | 0.573 | pCi/L | 10/22/21 10:38 | 11/12/21 17:09 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba | 87.5 | | 40 - 110 | | | | | 10/22/21 10:38 | 11/12/21 17:09 | 1 |
| Y Carrier | 83.0 | | 40 - 110 | | | | | 10/22/21 10:38 | 11/12/21 17:09 | 1 |

Method: Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|---------------------------|-------------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Radium 226 and 228 | 1.25 | | 0.455 | 0.467 | 5.00 | 0.573 | pCi/L | | 11/28/21 23:43 | 1 |

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Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-217572-2

Client Sample ID: MW-311

Lab Sample ID: 310-217572-15

Date Collected: 10/12/21 11:00

Matrix: Water

Date Received: 10/15/21 16:45

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium 226 | 0.256 | | 0.161 | 0.163 | 1.00 | 0.221 | pCi/L | 10/22/21 09:55 | 11/16/21 14:49 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba | 88.8 | | 40 - 110 | | | | | 10/22/21 09:55 | 11/16/21 14:49 | 1 |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|---------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium 228 | -0.0672 | U | 0.407 | 0.407 | 1.00 | 0.726 | pCi/L | 10/22/21 10:38 | 11/12/21 17:09 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba | 88.8 | | 40 - 110 | | | | | 10/22/21 10:38 | 11/12/21 17:09 | 1 |
| Y Carrier | 86.7 | | 40 - 110 | | | | | 10/22/21 10:38 | 11/12/21 17:09 | 1 |

Method: Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|--------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Radium 226 and 228 | 0.189 | U | 0.438 | 0.438 | 5.00 | 0.726 | pCi/L | | 11/28/21 23:43 | 1 |

Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-217572-2

Client Sample ID: MW-312
Date Collected: 10/14/21 11:10
Date Received: 10/15/21 16:45

Lab Sample ID: 310-217572-16
Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium 226 | 0.123 | U | 0.136 | 0.137 | 1.00 | 0.220 | pCi/L | 10/22/21 09:55 | 11/16/21 14:51 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba | 93.8 | | 40 - 110 | | | | | 10/22/21 09:55 | 11/16/21 14:51 | 1 |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|---------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium 228 | -0.0521 | U | 0.355 | 0.355 | 1.00 | 0.637 | pCi/L | 10/22/21 10:38 | 11/12/21 17:10 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba | 93.8 | | 40 - 110 | | | | | 10/22/21 10:38 | 11/12/21 17:10 | 1 |
| Y Carrier | 84.5 | | 40 - 110 | | | | | 10/22/21 10:38 | 11/12/21 17:10 | 1 |

Method: Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|--------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Radium 226 and 228 | 0.0710 | U | 0.380 | 0.381 | 5.00 | 0.637 | pCi/L | | 11/28/21 23:43 | 1 |

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Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-217572-2

Client Sample ID: MW-313
 Date Collected: 10/13/21 13:00
 Date Received: 10/15/21 16:45

Lab Sample ID: 310-217572-17
 Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium 226 | 0.524 | | 0.187 | 0.193 | 1.00 | 0.181 | pCi/L | 10/22/21 09:55 | 11/16/21 14:52 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba | 92.5 | | 40 - 110 | | | | | 10/22/21 09:55 | 11/16/21 14:52 | 1 |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium 228 | 1.07 | | 0.447 | 0.458 | 1.00 | 0.642 | pCi/L | 10/22/21 10:38 | 11/12/21 17:10 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba | 92.5 | | 40 - 110 | | | | | 10/22/21 10:38 | 11/12/21 17:10 | 1 |
| Y Carrier | 79.6 | | 40 - 110 | | | | | 10/22/21 10:38 | 11/12/21 17:10 | 1 |

Method: Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|--------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Radium 226 and 228 | 1.60 | | 0.485 | 0.497 | 5.00 | 0.642 | pCi/L | | 11/28/21 23:43 | 1 |

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Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-217572-2

Client Sample ID: MW-313A

Lab Sample ID: 310-217572-18

Date Collected: 10/13/21 14:00

Matrix: Water

Date Received: 10/15/21 16:45

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium 226 | 0.496 | | 0.249 | 0.253 | 1.00 | 0.302 | pCi/L | 10/22/21 09:55 | 11/16/21 14:52 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba | 56.3 | | 40 - 110 | | | | | 10/22/21 09:55 | 11/16/21 14:52 | 1 |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium 228 | 1.26 | | 0.637 | 0.647 | 1.00 | 0.936 | pCi/L | 10/22/21 10:38 | 11/12/21 17:10 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba | 56.3 | | 40 - 110 | | | | | 10/22/21 10:38 | 11/12/21 17:10 | 1 |
| Y Carrier | 81.9 | | 40 - 110 | | | | | 10/22/21 10:38 | 11/12/21 17:10 | 1 |

Method: Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|--------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Radium 226 and 228 | 1.76 | | 0.684 | 0.695 | 5.00 | 0.936 | pCi/L | | 11/28/21 23:43 | 1 |

Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-217572-2

Client Sample ID: MW-313B

Lab Sample ID: 310-217572-19

Date Collected: 10/13/21 15:25

Matrix: Water

Date Received: 10/15/21 16:45

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium 226 | 0.356 | | 0.171 | 0.174 | 1.00 | 0.215 | pCi/L | 10/22/21 09:55 | 11/16/21 16:51 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba | 95.5 | | 40 - 110 | | | | | 10/22/21 09:55 | 11/16/21 16:51 | 1 |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium 228 | 0.101 | U | 0.370 | 0.370 | 1.00 | 0.648 | pCi/L | 11/15/21 10:47 | 11/19/21 13:09 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba | 78.2 | | 40 - 110 | | | | | 11/15/21 10:47 | 11/19/21 13:09 | 1 |
| Y Carrier | 84.1 | | 40 - 110 | | | | | 11/15/21 10:47 | 11/19/21 13:09 | 1 |

Method: Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|--------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Radium 226 and 228 | 0.457 | U | 0.408 | 0.409 | 5.00 | 0.648 | pCi/L | | 11/28/21 23:43 | 1 |

Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-217572-2

Client Sample ID: Field Blank

Lab Sample ID: 310-217572-20

Date Collected: 10/14/21 14:20

Matrix: Water

Date Received: 10/15/21 16:45

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium 226 | 0.0323 | U | 0.0779 | 0.0779 | 1.00 | 0.144 | pCi/L | 10/22/21 09:55 | 11/16/21 16:52 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba | 85.0 | | 40 - 110 | | | | | 10/22/21 09:55 | 11/16/21 16:52 | 1 |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium 228 | 0.171 | U | 0.282 | 0.282 | 1.00 | 0.476 | pCi/L | 10/22/21 10:38 | 11/12/21 17:10 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba | 85.0 | | 40 - 110 | | | | | 10/22/21 10:38 | 11/12/21 17:10 | 1 |
| Y Carrier | 83.7 | | 40 - 110 | | | | | 10/22/21 10:38 | 11/12/21 17:10 | 1 |

Method: Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|--------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Radium 226 and 228 | 0.203 | U | 0.293 | 0.293 | 5.00 | 0.476 | pCi/L | | 11/28/21 23:43 | 1 |

Definitions/Glossary

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-217572-2

Qualifiers

Rad

| Qualifier | Qualifier Description |
|-----------|--------------------------------------------------|
| G | The Sample MDC is greater than the requested RL. |
| U | Result is less than the sample detection limit. |
| X | Carrier is outside acceptance limits. |

Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|----------------|-------------------------------------------------------------------------------------------------------------|
| α | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CFU | Colony Forming Unit |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MCL | EPA recommended "Maximum Contaminant Level" |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| MPN | Most Probable Number |
| MQL | Method Quantitation Limit |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| NEG | Negative / Absent |
| POS | Positive / Present |
| PQL | Practical Quantitation Limit |
| PRES | Presumptive |
| QC | Quality Control |
| RER | Relative Error Ratio (Radiochemistry) |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |
| TNTC | Too Numerous To Count |

QC Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-217572-2

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-533168/23-A
Matrix: Water
Analysis Batch: 536880

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 533168

| Analyte | MB | MB | Count | Total | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|-----------------|-----------------|------|----------------|----------------|----------------|----------------|---------|
| | Result | Qualifier | Uncert. (2σ+/-) | Uncert. (2σ+/-) | | | | | | |
| Radium 226 | -0.03672 | U | 0.0867 | 0.0868 | 1.00 | 0.201 | pCi/L | 10/22/21 09:55 | 11/16/21 16:52 | 1 |
| Carrier | MB | MB | Limits | | | Prepared | Analyzed | Dil Fac | | |
| | %Yield | Qualifier | | | | | | | | |
| Ba | 90.5 | | 40 - 110 | | | 10/22/21 09:55 | 11/16/21 16:52 | 1 | | |

Lab Sample ID: LCS 160-533168/1-A
Matrix: Water
Analysis Batch: 536881

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 533168

| Analyte | Spike Added | LCS Result | LCS Qual | Total | RL | MDC | Unit | %Rec | %Rec. Limits |
|------------|-------------|------------|----------|-----------------|------|----------|----------|---------|--------------|
| | | | | Uncert. (2σ+/-) | | | | | |
| Radium 226 | 15.1 | 13.87 | | 1.51 | 1.00 | 0.224 | pCi/L | 92 | 75 - 125 |
| Carrier | LCS | LCS | Limits | | | Prepared | Analyzed | Dil Fac | |
| | %Yield | Qualifier | | | | | | | |
| Ba | 96.0 | | 40 - 110 | | | | | | |

Lab Sample ID: LCSD 160-533168/2-A
Matrix: Water
Analysis Batch: 536881

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 533168

| Analyte | Spike Added | LCSD Result | LCSD Qual | Total | RL | MDC | Unit | %Rec | %Rec. Limits | RER | RER Limit |
|------------|-------------|-------------|-----------|-----------------|------|----------|----------|---------|--------------|------|-----------|
| | | | | Uncert. (2σ+/-) | | | | | | | |
| Radium 226 | 15.1 | 11.75 | | 1.34 | 1.00 | 0.245 | pCi/L | 78 | 75 - 125 | 0.74 | 1 |
| Carrier | LCSD | LCSD | Limits | | | Prepared | Analyzed | Dil Fac | | | |
| | %Yield | Qualifier | | | | | | | | | |
| Ba | 96.5 | | 40 - 110 | | | | | | | | |

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-533170/23-A
Matrix: Water
Analysis Batch: 536352

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 533170

| Analyte | MB | MB | Count | Total | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------|-----------------|------|----------------|----------------|----------------|----------------|---------|
| | Result | Qualifier | Uncert. (2σ+/-) | Uncert. (2σ+/-) | | | | | | |
| Radium 228 | 0.2075 | U | 0.348 | 0.348 | 1.00 | 0.588 | pCi/L | 10/22/21 10:38 | 11/12/21 17:11 | 1 |
| Carrier | MB | MB | Limits | | | Prepared | Analyzed | Dil Fac | | |
| | %Yield | Qualifier | | | | | | | | |
| Ba | 90.5 | | 40 - 110 | | | 10/22/21 10:38 | 11/12/21 17:11 | 1 | | |
| Y Carrier | 83.4 | | 40 - 110 | | | 10/22/21 10:38 | 11/12/21 17:11 | 1 | | |

QC Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-217572-2

Method: 904.0 - Radium-228 (GFPC) (Continued)

Lab Sample ID: LCS 160-533170/1-A
Matrix: Water
Analysis Batch: 536417

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 533170

| Analyte | Spike Added | LCS Result | LCS Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec. Limits | |
|----------------|---------------|------------------|---------------|-----------------------|------|-------|-------|------|--------------|-----|
| | | | | | | | | | 75 | 125 |
| Radium 228 | 12.2 | 12.91 | | 1.53 | 1.00 | 0.546 | pCi/L | 106 | 75 | 125 |
| LCS LCS | | | | | | | | | | |
| Carrier | %Yield | Qualifier | Limits | | | | | | | |
| Ba | 96.0 | | 40 - 110 | | | | | | | |
| Y Carrier | 77.0 | | 40 - 110 | | | | | | | |

Lab Sample ID: LCSD 160-533170/2-A
Matrix: Water
Analysis Batch: 536417

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 533170

| Analyte | Spike Added | LCSD Result | LCSD Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec. Limits | | RER | Limit |
|------------------|---------------|------------------|---------------|-----------------------|------|-------|-------|------|--------------|-----|------|-------|
| | | | | | | | | | 75 | 125 | 0.75 | 1 |
| Radium 228 | 12.2 | 10.77 | | 1.32 | 1.00 | 0.474 | pCi/L | 88 | 75 | 125 | 0.75 | 1 |
| LCSD LCSD | | | | | | | | | | | | |
| Carrier | %Yield | Qualifier | Limits | | | | | | | | | |
| Ba | 96.5 | | 40 - 110 | | | | | | | | | |
| Y Carrier | 80.0 | | 40 - 110 | | | | | | | | | |

Lab Sample ID: MB 160-536650/4-A
Matrix: Water
Analysis Batch: 537574

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 536650

| Analyte | MB Result | MB Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | | Analyzed | | Dil Fac |
|----------------|---------------|------------------|-----------------------|-----------------------|-----------------|-------|-----------------|----------------|----------------|----------------|----------------|---------|
| | | | | | | | | 11/15/21 10:47 | 11/19/21 13:09 | 11/15/21 10:47 | 11/19/21 13:09 | 1 |
| Radium 228 | -0.01839 | U | 0.352 | 0.352 | 1.00 | 0.637 | pCi/L | 11/15/21 10:47 | 11/19/21 13:09 | 11/15/21 10:47 | 11/19/21 13:09 | 1 |
| MB MB | | | | | | | | | | | | |
| Carrier | %Yield | Qualifier | Limits | | Prepared | | Analyzed | | Dil Fac | | | |
| Ba | 78.6 | | 40 - 110 | | 11/15/21 10:47 | | 11/19/21 13:09 | | 1 | | | |
| Y Carrier | 84.1 | | 40 - 110 | | 11/15/21 10:47 | | 11/19/21 13:09 | | 1 | | | |

Lab Sample ID: LCS 160-536650/1-A
Matrix: Water
Analysis Batch: 537574

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 536650

| Analyte | Spike Added | LCS Result | LCS Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec. Limits | |
|----------------|---------------|------------------|---------------|-----------------------|------|-------|-------|------|--------------|-----|
| | | | | | | | | | 75 | 125 |
| Radium 228 | 12.2 | 13.41 | | 1.64 | 1.00 | 0.678 | pCi/L | 110 | 75 | 125 |
| LCS LCS | | | | | | | | | | |
| Carrier | %Yield | Qualifier | Limits | | | | | | | |
| Ba | 78.0 | | 40 - 110 | | | | | | | |
| Y Carrier | 83.7 | | 40 - 110 | | | | | | | |

QC Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-217572-2

Method: 904.0 - Radium-228 (GFPC) (Continued)

Lab Sample ID: LCSD 160-536650/2-A
Matrix: Water
Analysis Batch: 537574

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 536650

| Analyte | Spike Added | LCSD Result | LCSD Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec. Limits | RER | RER Limit |
|------------|-------------|-------------|-----------|-----------------------|------|-------|-------|------|--------------|------|-----------|
| Radium 228 | 12.2 | 12.84 | | 1.60 | 1.00 | 0.743 | pCi/L | 105 | 75 - 125 | 0.18 | 1 |

| Carrier | LCSD %Yield | LCSD Qualifier | Limits |
|-----------|-------------|----------------|----------|
| Ba | 74.3 | | 40 - 110 |
| Y Carrier | 84.5 | | 40 - 110 |

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QC Association Summary

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-217572-2

Rad

Prep Batch: 533168

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|------------|------------|
| 310-217572-1 | MW-301 | Total/NA | Water | PrecSep-21 | |
| 310-217572-2 | MW-302 | Total/NA | Water | PrecSep-21 | |
| 310-217572-3 | MW-302A | Total/NA | Water | PrecSep-21 | |
| 310-217572-4 | MW-303 | Total/NA | Water | PrecSep-21 | |
| 310-217572-5 | MW-304 | Total/NA | Water | PrecSep-21 | |
| 310-217572-6 | MW-305 | Total/NA | Water | PrecSep-21 | |
| 310-217572-7 | MW-306 | Total/NA | Water | PrecSep-21 | |
| 310-217572-8 | MW-307 | Total/NA | Water | PrecSep-21 | |
| 310-217572-9 | MW-307A | Total/NA | Water | PrecSep-21 | |
| 310-217572-10 | MW-307B | Total/NA | Water | PrecSep-21 | |
| 310-217572-11 | MW-308 | Total/NA | Water | PrecSep-21 | |
| 310-217572-12 | MW-309 | Total/NA | Water | PrecSep-21 | |
| 310-217572-13 | MW-310A | Total/NA | Water | PrecSep-21 | |
| 310-217572-14 | MW-310 | Total/NA | Water | PrecSep-21 | |
| 310-217572-15 | MW-311 | Total/NA | Water | PrecSep-21 | |
| 310-217572-16 | MW-312 | Total/NA | Water | PrecSep-21 | |
| 310-217572-17 | MW-313 | Total/NA | Water | PrecSep-21 | |
| 310-217572-18 | MW-313A | Total/NA | Water | PrecSep-21 | |
| 310-217572-19 | MW-313B | Total/NA | Water | PrecSep-21 | |
| 310-217572-20 | Field Blank | Total/NA | Water | PrecSep-21 | |
| MB 160-533168/23-A | Method Blank | Total/NA | Water | PrecSep-21 | |
| LCS 160-533168/1-A | Lab Control Sample | Total/NA | Water | PrecSep-21 | |
| LCSD 160-533168/2-A | Lab Control Sample Dup | Total/NA | Water | PrecSep-21 | |

Prep Batch: 533170

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|-----------|------------|
| 310-217572-1 | MW-301 | Total/NA | Water | PrecSep_0 | |
| 310-217572-2 | MW-302 | Total/NA | Water | PrecSep_0 | |
| 310-217572-3 | MW-302A | Total/NA | Water | PrecSep_0 | |
| 310-217572-4 | MW-303 | Total/NA | Water | PrecSep_0 | |
| 310-217572-5 | MW-304 | Total/NA | Water | PrecSep_0 | |
| 310-217572-6 | MW-305 | Total/NA | Water | PrecSep_0 | |
| 310-217572-7 | MW-306 | Total/NA | Water | PrecSep_0 | |
| 310-217572-8 | MW-307 | Total/NA | Water | PrecSep_0 | |
| 310-217572-9 | MW-307A | Total/NA | Water | PrecSep_0 | |
| 310-217572-10 | MW-307B | Total/NA | Water | PrecSep_0 | |
| 310-217572-11 | MW-308 | Total/NA | Water | PrecSep_0 | |
| 310-217572-12 | MW-309 | Total/NA | Water | PrecSep_0 | |
| 310-217572-13 | MW-310A | Total/NA | Water | PrecSep_0 | |
| 310-217572-14 | MW-310 | Total/NA | Water | PrecSep_0 | |
| 310-217572-15 | MW-311 | Total/NA | Water | PrecSep_0 | |
| 310-217572-16 | MW-312 | Total/NA | Water | PrecSep_0 | |
| 310-217572-17 | MW-313 | Total/NA | Water | PrecSep_0 | |
| 310-217572-18 | MW-313A | Total/NA | Water | PrecSep_0 | |
| 310-217572-20 | Field Blank | Total/NA | Water | PrecSep_0 | |
| MB 160-533170/23-A | Method Blank | Total/NA | Water | PrecSep_0 | |
| LCS 160-533170/1-A | Lab Control Sample | Total/NA | Water | PrecSep_0 | |
| LCSD 160-533170/2-A | Lab Control Sample Dup | Total/NA | Water | PrecSep_0 | |

QC Association Summary

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-217572-2

Rad

Prep Batch: 536650

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|-----------|------------|
| 310-217572-19 | MW-313B | Total/NA | Water | PrecSep_0 | |
| MB 160-536650/4-A | Method Blank | Total/NA | Water | PrecSep_0 | |
| LCS 160-536650/1-A | Lab Control Sample | Total/NA | Water | PrecSep_0 | |
| LCSD 160-536650/2-A | Lab Control Sample Dup | Total/NA | Water | PrecSep_0 | |

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Lab Chronicle

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-217572-2

Client Sample ID: MW-301

Date Collected: 10/13/21 09:05

Date Received: 10/15/21 16:45

Lab Sample ID: 310-217572-1

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 533168 | 10/22/21 09:55 | BMP | TAL SL |
| Total/NA | Analysis | 903.0 | | 1 | 536881 | 11/16/21 10:33 | FLC | TAL SL |
| Total/NA | Prep | PrecSep_0 | | | 533170 | 10/22/21 10:38 | BMP | TAL SL |
| Total/NA | Analysis | 904.0 | | 1 | 536417 | 11/12/21 17:07 | FLC | TAL SL |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 539030 | 11/28/21 23:43 | MLK | TAL SL |

Client Sample ID: MW-302

Date Collected: 10/12/21 14:40

Date Received: 10/15/21 16:45

Lab Sample ID: 310-217572-2

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 533168 | 10/22/21 09:55 | BMP | TAL SL |
| Total/NA | Analysis | 903.0 | | 1 | 536881 | 11/16/21 10:34 | FLC | TAL SL |
| Total/NA | Prep | PrecSep_0 | | | 533170 | 10/22/21 10:38 | BMP | TAL SL |
| Total/NA | Analysis | 904.0 | | 1 | 536417 | 11/12/21 17:08 | FLC | TAL SL |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 539030 | 11/28/21 23:43 | MLK | TAL SL |

Client Sample ID: MW-302A

Date Collected: 10/12/21 15:40

Date Received: 10/15/21 16:45

Lab Sample ID: 310-217572-3

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 533168 | 10/22/21 09:55 | BMP | TAL SL |
| Total/NA | Analysis | 903.0 | | 1 | 536881 | 11/16/21 10:34 | FLC | TAL SL |
| Total/NA | Prep | PrecSep_0 | | | 533170 | 10/22/21 10:38 | BMP | TAL SL |
| Total/NA | Analysis | 904.0 | | 1 | 536417 | 11/12/21 17:08 | FLC | TAL SL |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 539030 | 11/28/21 23:43 | MLK | TAL SL |

Client Sample ID: MW-303

Date Collected: 10/13/21 10:05

Date Received: 10/15/21 16:45

Lab Sample ID: 310-217572-4

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 533168 | 10/22/21 09:55 | BMP | TAL SL |
| Total/NA | Analysis | 903.0 | | 1 | 536881 | 11/16/21 10:34 | FLC | TAL SL |
| Total/NA | Prep | PrecSep_0 | | | 533170 | 10/22/21 10:38 | BMP | TAL SL |
| Total/NA | Analysis | 904.0 | | 1 | 536417 | 11/12/21 17:08 | FLC | TAL SL |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 539030 | 11/28/21 23:43 | MLK | TAL SL |

Lab Chronicle

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-217572-2

Client Sample ID: MW-304

Date Collected: 10/13/21 11:50

Date Received: 10/15/21 16:45

Lab Sample ID: 310-217572-5

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 533168 | 10/22/21 09:55 | BMP | TAL SL |
| Total/NA | Analysis | 903.0 | | 1 | 536882 | 11/16/21 10:36 | ANW | TAL SL |
| Total/NA | Prep | PrecSep_0 | | | 533170 | 10/22/21 10:38 | BMP | TAL SL |
| Total/NA | Analysis | 904.0 | | 1 | 536417 | 11/12/21 17:08 | FLC | TAL SL |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 539030 | 11/28/21 23:43 | MLK | TAL SL |

Client Sample ID: MW-305

Date Collected: 10/14/21 12:30

Date Received: 10/15/21 16:45

Lab Sample ID: 310-217572-6

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 533168 | 10/22/21 09:55 | BMP | TAL SL |
| Total/NA | Analysis | 903.0 | | 1 | 536882 | 11/16/21 10:36 | ANW | TAL SL |
| Total/NA | Prep | PrecSep_0 | | | 533170 | 10/22/21 10:38 | BMP | TAL SL |
| Total/NA | Analysis | 904.0 | | 1 | 536417 | 11/12/21 17:08 | FLC | TAL SL |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 539030 | 11/28/21 23:43 | MLK | TAL SL |

Client Sample ID: MW-306

Date Collected: 10/11/21 14:00

Date Received: 10/15/21 16:45

Lab Sample ID: 310-217572-7

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 533168 | 10/22/21 09:55 | BMP | TAL SL |
| Total/NA | Analysis | 903.0 | | 1 | 536882 | 11/16/21 10:36 | ANW | TAL SL |
| Total/NA | Prep | PrecSep_0 | | | 533170 | 10/22/21 10:38 | BMP | TAL SL |
| Total/NA | Analysis | 904.0 | | 1 | 536236 | 11/12/21 17:09 | FLC | TAL SL |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 539030 | 11/28/21 23:43 | MLK | TAL SL |

Client Sample ID: MW-307

Date Collected: 10/11/21 15:35

Date Received: 10/15/21 16:45

Lab Sample ID: 310-217572-8

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 533168 | 10/22/21 09:55 | BMP | TAL SL |
| Total/NA | Analysis | 903.0 | | 1 | 536882 | 11/16/21 10:36 | ANW | TAL SL |
| Total/NA | Prep | PrecSep_0 | | | 533170 | 10/22/21 10:38 | BMP | TAL SL |
| Total/NA | Analysis | 904.0 | | 1 | 536236 | 11/12/21 17:09 | FLC | TAL SL |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 539030 | 11/28/21 23:43 | MLK | TAL SL |

Lab Chronicle

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-217572-2

Client Sample ID: MW-307A

Lab Sample ID: 310-217572-9

Date Collected: 10/11/21 17:50

Matrix: Water

Date Received: 10/15/21 16:45

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 533168 | 10/22/21 09:55 | BMP | TAL SL |
| Total/NA | Analysis | 903.0 | | 1 | 536882 | 11/16/21 14:46 | ANW | TAL SL |
| Total/NA | Prep | PrecSep_0 | | | 533170 | 10/22/21 10:38 | BMP | TAL SL |
| Total/NA | Analysis | 904.0 | | 1 | 536236 | 11/12/21 17:09 | FLC | TAL SL |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 539030 | 11/28/21 23:43 | MLK | TAL SL |

Client Sample ID: MW-307B

Lab Sample ID: 310-217572-10

Date Collected: 10/11/21 17:00

Matrix: Water

Date Received: 10/15/21 16:45

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 533168 | 10/22/21 09:55 | BMP | TAL SL |
| Total/NA | Analysis | 903.0 | | 1 | 536882 | 11/16/21 14:47 | ANW | TAL SL |
| Total/NA | Prep | PrecSep_0 | | | 533170 | 10/22/21 10:38 | BMP | TAL SL |
| Total/NA | Analysis | 904.0 | | 1 | 536236 | 11/12/21 17:09 | FLC | TAL SL |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 539030 | 11/28/21 23:43 | MLK | TAL SL |

Client Sample ID: MW-308

Lab Sample ID: 310-217572-11

Date Collected: 10/12/21 13:36

Matrix: Water

Date Received: 10/15/21 16:45

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 533168 | 10/22/21 09:55 | BMP | TAL SL |
| Total/NA | Analysis | 903.0 | | 1 | 536882 | 11/16/21 14:47 | ANW | TAL SL |
| Total/NA | Prep | PrecSep_0 | | | 533170 | 10/22/21 10:38 | BMP | TAL SL |
| Total/NA | Analysis | 904.0 | | 1 | 536236 | 11/12/21 17:09 | FLC | TAL SL |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 539030 | 11/28/21 23:43 | MLK | TAL SL |

Client Sample ID: MW-309

Lab Sample ID: 310-217572-12

Date Collected: 10/12/21 12:20

Matrix: Water

Date Received: 10/15/21 16:45

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 533168 | 10/22/21 09:55 | BMP | TAL SL |
| Total/NA | Analysis | 903.0 | | 1 | 536882 | 11/16/21 14:47 | ANW | TAL SL |
| Total/NA | Prep | PrecSep_0 | | | 533170 | 10/22/21 10:38 | BMP | TAL SL |
| Total/NA | Analysis | 904.0 | | 1 | 536236 | 11/12/21 17:09 | FLC | TAL SL |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 539030 | 11/28/21 23:43 | MLK | TAL SL |

Lab Chronicle

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-217572-2

Client Sample ID: MW-310A

Lab Sample ID: 310-217572-13

Date Collected: 10/14/21 09:30

Matrix: Water

Date Received: 10/15/21 16:45

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 533168 | 10/22/21 09:55 | BMP | TAL SL |
| Total/NA | Analysis | 903.0 | | 1 | 536881 | 11/16/21 14:49 | FLC | TAL SL |
| Total/NA | Prep | PrecSep_0 | | | 533170 | 10/22/21 10:38 | BMP | TAL SL |
| Total/NA | Analysis | 904.0 | | 1 | 536236 | 11/12/21 17:09 | FLC | TAL SL |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 539030 | 11/28/21 23:43 | MLK | TAL SL |

Client Sample ID: MW-310

Lab Sample ID: 310-217572-14

Date Collected: 10/12/21 09:15

Matrix: Water

Date Received: 10/15/21 16:45

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 533168 | 10/22/21 09:55 | BMP | TAL SL |
| Total/NA | Analysis | 903.0 | | 1 | 536881 | 11/16/21 14:49 | FLC | TAL SL |
| Total/NA | Prep | PrecSep_0 | | | 533170 | 10/22/21 10:38 | BMP | TAL SL |
| Total/NA | Analysis | 904.0 | | 1 | 536236 | 11/12/21 17:09 | FLC | TAL SL |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 539030 | 11/28/21 23:43 | MLK | TAL SL |

Client Sample ID: MW-311

Lab Sample ID: 310-217572-15

Date Collected: 10/12/21 11:00

Matrix: Water

Date Received: 10/15/21 16:45

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 533168 | 10/22/21 09:55 | BMP | TAL SL |
| Total/NA | Analysis | 903.0 | | 1 | 536881 | 11/16/21 14:49 | FLC | TAL SL |
| Total/NA | Prep | PrecSep_0 | | | 533170 | 10/22/21 10:38 | BMP | TAL SL |
| Total/NA | Analysis | 904.0 | | 1 | 536236 | 11/12/21 17:09 | FLC | TAL SL |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 539030 | 11/28/21 23:43 | MLK | TAL SL |

Client Sample ID: MW-312

Lab Sample ID: 310-217572-16

Date Collected: 10/14/21 11:10

Matrix: Water

Date Received: 10/15/21 16:45

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 533168 | 10/22/21 09:55 | BMP | TAL SL |
| Total/NA | Analysis | 903.0 | | 1 | 536880 | 11/16/21 14:51 | FLC | TAL SL |
| Total/NA | Prep | PrecSep_0 | | | 533170 | 10/22/21 10:38 | BMP | TAL SL |
| Total/NA | Analysis | 904.0 | | 1 | 536352 | 11/12/21 17:10 | FLC | TAL SL |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 539030 | 11/28/21 23:43 | MLK | TAL SL |

Lab Chronicle

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-217572-2

Client Sample ID: MW-313

Lab Sample ID: 310-217572-17

Date Collected: 10/13/21 13:00

Matrix: Water

Date Received: 10/15/21 16:45

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 533168 | 10/22/21 09:55 | BMP | TAL SL |
| Total/NA | Analysis | 903.0 | | 1 | 536880 | 11/16/21 14:52 | FLC | TAL SL |
| Total/NA | Prep | PrecSep_0 | | | 533170 | 10/22/21 10:38 | BMP | TAL SL |
| Total/NA | Analysis | 904.0 | | 1 | 536352 | 11/12/21 17:10 | FLC | TAL SL |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 539030 | 11/28/21 23:43 | MLK | TAL SL |

Client Sample ID: MW-313A

Lab Sample ID: 310-217572-18

Date Collected: 10/13/21 14:00

Matrix: Water

Date Received: 10/15/21 16:45

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 533168 | 10/22/21 09:55 | BMP | TAL SL |
| Total/NA | Analysis | 903.0 | | 1 | 536880 | 11/16/21 14:52 | FLC | TAL SL |
| Total/NA | Prep | PrecSep_0 | | | 533170 | 10/22/21 10:38 | BMP | TAL SL |
| Total/NA | Analysis | 904.0 | | 1 | 536352 | 11/12/21 17:10 | FLC | TAL SL |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 539030 | 11/28/21 23:43 | MLK | TAL SL |

Client Sample ID: MW-313B

Lab Sample ID: 310-217572-19

Date Collected: 10/13/21 15:25

Matrix: Water

Date Received: 10/15/21 16:45

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 533168 | 10/22/21 09:55 | BMP | TAL SL |
| Total/NA | Analysis | 903.0 | | 1 | 536880 | 11/16/21 16:51 | FLC | TAL SL |
| Total/NA | Prep | PrecSep_0 | | | 536650 | 11/15/21 10:47 | LPS | TAL SL |
| Total/NA | Analysis | 904.0 | | 1 | 537574 | 11/19/21 13:09 | ANW | TAL SL |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 539030 | 11/28/21 23:43 | MLK | TAL SL |

Client Sample ID: Field Blank

Lab Sample ID: 310-217572-20

Date Collected: 10/14/21 14:20

Matrix: Water

Date Received: 10/15/21 16:45

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 533168 | 10/22/21 09:55 | BMP | TAL SL |
| Total/NA | Analysis | 903.0 | | 1 | 536880 | 11/16/21 16:52 | FLC | TAL SL |
| Total/NA | Prep | PrecSep_0 | | | 533170 | 10/22/21 10:38 | BMP | TAL SL |
| Total/NA | Analysis | 904.0 | | 1 | 536352 | 11/12/21 17:10 | FLC | TAL SL |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 539030 | 11/28/21 23:43 | MLK | TAL SL |

Laboratory References:

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Accreditation/Certification Summary

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-217572-2

Laboratory: Eurofins TestAmerica, St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

| Authority | Program | Identification Number | Expiration Date |
|--------------------------|-----------------------------------------|----------------------------|-----------------|
| Alaska (UST) | State | 20-001 | 05-06-22 |
| ANAB | Dept. of Defense ELAP | L2305 | 04-06-22 |
| ANAB | Dept. of Energy | L2305.01 | 04-06-22 |
| ANAB | ISO/IEC 17025 | L2305 | 04-06-22 |
| Arizona | State | AZ0813 | 12-08-21 |
| California | Los Angeles County Sanitation Districts | 10259 | 06-30-22 |
| California | State | 2886 | 06-30-21 * |
| Connecticut | State | PH-0241 | 03-31-23 |
| Florida | NELAP | E87689 | 06-30-22 |
| HI - RadChem Recognition | State | n/a | 06-30-22 |
| Illinois | NELAP | 200023 | 11-30-22 |
| Iowa | State | 373 | 12-01-22 |
| Kansas | NELAP | E-10236 | 10-31-22 |
| Kentucky (DW) | State | KY90125 | 01-01-22 |
| Kentucky (WW) | State | KY90125 (Permit KY0004049) | 12-31-21 |
| Louisiana | NELAP | 04080 | 06-30-22 |
| Louisiana (DW) | State | LA011 | 12-31-21 |
| Maryland | State | 310 | 09-30-22 |
| MI - RadChem Recognition | State | 9005 | 06-30-22 |
| Missouri | State | 780 | 06-30-22 |
| Nevada | State | MO000542020-1 | 07-31-22 |
| New Jersey | NELAP | MO002 | 06-30-22 |
| New York | NELAP | 11616 | 04-01-22 |
| North Dakota | State | R-207 | 06-30-22 |
| NRC | NRC | 24-24817-01 | 12-31-22 |
| Oklahoma | State | 9997 | 08-31-22 |
| Oregon | NELAP | 4157 | 09-01-22 |
| Pennsylvania | NELAP | 68-00540 | 03-01-22 |
| South Carolina | State | 85002001 | 06-30-22 |
| Texas | NELAP | T104704193 | 07-31-22 |
| US Fish & Wildlife | US Federal Programs | 058448 | 07-31-22 |
| USDA | US Federal Programs | P330-17-00028 | 03-11-23 |
| Utah | NELAP | MO000542021-14 | 08-01-22 |
| Virginia | NELAP | 10310 | 06-14-22 |
| Washington | State | C592 | 08-30-22 |
| West Virginia DEP | State | 381 | 10-31-22 |

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-217572-2

| Method | Method Description | Protocol | Laboratory |
|--------------------|--------------------------------------------------------|----------|------------|
| 903.0 | Radium-226 (GFPC) | EPA | TAL SL |
| 904.0 | Radium-228 (GFPC) | EPA | TAL SL |
| Ra226_Ra228 Pos | Combined Radium-226 and Radium-228 | TAL-STL | TAL SL |
| PrecSep_0 | Preparation, Precipitate Separation | None | TAL SL |
| PrecSep-21 | Preparation, Precipitate Separation (21-Day In-Growth) | None | TAL SL |

Protocol References:

EPA = US Environmental Protection Agency

None = None

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566





Environment Testing
TestAmerica



310-217572 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

| | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Client Information | | |
| Client: <u>SCS engineers</u> | | |
| City/State: <u>Clive</u> <small>CITY</small> <u>LA</u> <small>STATE</small> | Project: | |
| Receipt Information | | |
| Date/Time Received: <u>10/15/2021</u> <small>DATE</small> <u>1645</u> <small>TIME</small> | Received By: <u>TB</u> | |
| Delivery Type: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input checked="" type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____ | | |
| Condition of Cooler/Containers | | |
| Sample(s) received in Cooler? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If yes: Cooler ID: _____ |
| Multiple Coolers? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If yes: Cooler # <u>1</u> of <u>4</u> |
| Cooler Custody Seals Present? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If yes: Cooler custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Sample Custody Seals Present? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Trip Blank Present? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If yes: Which VOA samples are in cooler? ↓ |
| Temperature Record | | |
| Coolant: <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE | | |
| Thermometer ID: <u>0</u> | Correction Factor (°C): <u>0</u> | |
| • Temp: Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature | | |
| Uncorrected Temp (°C): <u>1.3</u> | Corrected Temp (°C): <u>1.3</u> | |
| • Sample Container Temperature | | |
| Container(s) used: | <u>CONTAINER 1</u> | <u>CONTAINER 2</u> |
| Uncorrected Temp (°C): | | |
| Corrected Temp (°C): | | |
| Exceptions Noted | | |
| 1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| 2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| NOTE: If yes, contact PM before proceeding. If no, proceed with login | | |
| Additional Comments | | |
| | | |
| | | |
| | | |



Environment Testing
TestAmerica

Place COC scanning label
here

Cooler/Sample Receipt and Temperature Log Form

| | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|--|
| Client Information | | | |
| Client: <u>SCS Engineers</u> | | | |
| City/State: <u>Clive</u> <small>CITY</small> | <u>LA</u> <small>STATE</small> | Project: | |
| Receipt Information | | | |
| Date/Time Received: <u>10/15/2021</u> <small>DATE</small> <u>11:45</u> <small>TIME</small> | Received By: <u>TB</u> | | |
| Delivery Type: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input checked="" type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____ | | | |
| Condition of Cooler/Containers | | | |
| Sample(s) received in Cooler? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If yes: Cooler ID: | |
| Multiple Coolers? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If yes: Cooler # <u>2</u> of <u>4</u> | |
| Cooler Custody Seals Present? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If yes: Cooler custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No | |
| Sample Custody Seals Present? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No | |
| Trip Blank Present? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If yes: Which VOA samples are in cooler? ↓ | |
| Temperature Record | | | |
| Coolant: <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE | | | |
| Thermometer ID: <u>0</u> | | Correction Factor (°C): <u>0</u> | |
| • Temp/Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature | | | |
| Uncorrected Temp (°C): <u>1.9</u> | | Corrected Temp (°C): <u>1.9</u> | |
| • Sample Container Temperature | | | |
| Container(s) used: | <u>+</u> <small>CONTAINER 1</small> | <small>CONTAINER 2</small> | |
| Uncorrected Temp (°C): | | | |
| Corrected Temp (°C): | | | |
| Exceptions Noted | | | |
| 1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No | | | |
| 2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No | | | |
| NOTE: If yes, contact PM before proceeding. If no, proceed with login | | | |
| Additional Comments | | | |
| | | | |
| | | | |
| | | | |



Place COC scanning label
here

Cooler/Sample Receipt and Temperature Log Form

| | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|---------------------------------------------|-----------------------------------------------------------------------------------------------|
| Client Information | | | |
| Client: <u>SES engineers</u> | | | |
| City/State: | CITY <u>Clive</u> | STATE <u>LA</u> | Project: |
| Receipt Information | | | |
| Date/Time Received: | DATE <u>10/15/2021</u> | TIME <u>1045</u> | Received By: <u>TB</u> |
| Delivery Type: | <input type="checkbox"/> UPS | <input type="checkbox"/> FedEx | <input type="checkbox"/> FedEx Ground |
| | <input checked="" type="checkbox"/> Lab Courier | <input type="checkbox"/> Lab Field Services | <input type="checkbox"/> Client Drop-off |
| | <input type="checkbox"/> US Mail | <input type="checkbox"/> Spee-Dee | <input type="checkbox"/> Other: _____ |
| Condition of Cooler/Containers | | | |
| Sample(s) received in Cooler? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | If yes: Cooler ID: _____ |
| Multiple Coolers? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | If yes: Cooler # <u>B</u> of <u>4</u> |
| Cooler Custody Seals Present? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | If yes: Cooler custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Sample Custody Seals Present? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Trip Blank Present? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | If yes: Which VOA samples are in cooler? ↓ |
| Temperature Record | | | |
| Coolant: | <input checked="" type="checkbox"/> Wet ice | <input type="checkbox"/> Blue ice | <input type="checkbox"/> Dry ice |
| | <input type="checkbox"/> Other: _____ | <input type="checkbox"/> NONE | |
| Thermometer ID: <u>0</u> | Correction Factor (°C): <u>0</u> | | |
| • Temp. Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature | | | |
| Uncorrected Temp (°C): <u>1.8</u> | Corrected Temp (°C): <u>1.8</u> | | |
| Sample Container Temperature | | | |
| Container(s) used: | <u>CONTAINER 1</u> | <u>CONTAINER 2</u> | |
| Uncorrected Temp (°C): | | | |
| Corrected Temp (°C): | | | |
| Exceptions Noted | | | |
| 1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No | | | |
| a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No | | | |
| 2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No | | | |
| NOTE: If yes, contact PM before proceeding. If no, proceed with login | | | |
| Additional Comments | | | |
| <u>received empty, 1L water empty</u> | | | |
| <u>for mud-310A</u> | | | |





Place COC scanning label
here

Cooler/Sample Receipt and Temperature Log Form

| Client Information | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Client: <u>SCS Engineers</u> | | |
| City/State: <u>Clive</u> <small>CITY</small> <u>LA</u> <small>STATE</small> | Project: | |
| Receipt Information | | |
| Date/Time Received: <u>10/15/2021</u> <small>DATE</small> <u>1645</u> <small>TIME</small> | Received By: <u>TB</u> | |
| Delivery Type: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input checked="" type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____ | | |
| Condition of Cooler/Containers | | |
| Sample(s) received in Cooler? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If yes: Cooler ID: _____ |
| Multiple Coolers? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If yes: Cooler # <u>4</u> of <u>4</u> |
| Cooler Custody Seals Present? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If yes: Cooler custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Sample Custody Seals Present? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Trip Blank Present? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If yes: Which VOA samples are in cooler? ↓ |
| | | |
| | | |
| Temperature Record | | |
| Coolant: <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE | | |
| Thermometer ID: <u>0</u> | Correction Factor (°C): <u>0</u> | |
| • Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature | | |
| Uncorrected Temp (°C): <u>1.6</u> | Corrected Temp (°C): <u>1.6</u> | |
| • Sample Container Temperature | | |
| Container(s) used: | <u>CONTAINER 1</u> | <u>CONTAINER 2</u> |
| Uncorrected Temp (°C): | | |
| Corrected Temp (°C): | | |
| Exceptions Noted | | |
| 1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| 2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| NOTE: If yes, contact PM before proceeding. If no, proceed with login | | |
| Additional Comments | | |
| | | |
| | | |
| | | |



| | | | | | | | |
|------------------------------------------------------|--|---------------------------------------|--|------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Client Information | | Sampler: <u>Rosa Cruz</u> | | Lab PM: <u>Fredrick Sandie</u> | | COC No: <u>310-84601-14654.1</u> | |
| Client Contact: <u>Rosa Cruz</u> | | Phone: <u>608-509-8245</u> | | E-Mail: <u>sandra.fredrick@eurofinsct.com</u> | | Page: <u>Page 1 of 2</u> | |
| Company: <u>SCS Engineers</u> | | PWSID: _____ | | Carrier Tracking No(s): _____ | | Job #: _____ | |
| Address: <u>8450 Hickman Road Suite 27</u> | | Due Date Requested: _____ | | Analysis Requested: _____ | | Preservation Codes: _____ | |
| City: _____ | | TAT Requested (days): _____ | | Perform MS/MSD (Yes or No): <input checked="" type="checkbox"/> | | A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice Water J - DI Water K - EDTA L - EDA Other: _____ | |
| State, Zip: <u>IA, 50325</u> | | Compliance Project: <u>Δ Yes Δ No</u> | | Field Filtered Sample (Yes or No): <input checked="" type="checkbox"/> | | M - Hexane N - None O - AshleO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecylsulfate U - Acetone V - MCAA W - pH 4-5 X - Other (specify) | |
| Phone: _____ | | PC #: <u>25221066</u> | | 6020A - Metals - Hg | | Total Number of Containers: _____ | |
| Email: <u>rcruz@scsengineers.com</u> | | WC #: _____ | | 5030 - Radium 226 | | Special Instructions/Note: _____ | |
| Project Name: <u>Burlington Gen Station 25221066</u> | | Project #: <u>31011020</u> | | 5040 - Radium 228 | | | |
| Site: _____ | | SSCW#: _____ | | | | | |

| Sample Identification | Sample Date | Sample Time | Sample Type (C=Comb, G=grab) | Matrix (w-water, Solid, On-waste, BTL, etc. (N/A)) | Preservation Code | D | N | D | D |
|-----------------------|-------------|-------------|------------------------------|----------------------------------------------------|-------------------|---|---|---|---|
| MW-301 | 10-13-21 | 9:05 | G | Water | | X | X | X | X |
| MW-302 | 10-12-21 | 14:40 | G | Water | | X | X | X | X |
| MW-302A | 10-12-21 | 15:40 | G | Water | | X | X | X | X |
| MW-303 | 10-13-21 | 10:05 | G | Water | | X | X | X | X |
| MW-304 | 10-13-21 | 11:50 | G | Water | | X | X | X | X |
| MW-305 | 10-14-21 | 12:30 | G | Water | | X | X | X | X |
| MW-306 | 10-11-21 | 14:00 | G | Water | | X | X | X | X |
| MW-307 | 10-11-21 | 15:35 | G | Water | | X | X | X | X |
| MW-307A | 10-11-21 | 17:50 | G | Water | | X | X | X | X |
| MW-307B | 10-11-21 | 17:00 | G | Water | | X | X | X | X |
| MW-308 | 10-12-21 | 13:30 | G | Water | | X | X | X | X |

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

Deliverable Requested: I, II, III, IV, Other (specify) _____

Empty Kit Relinquished by _____ Date: _____ Time: _____

Relinquished by Rosa Cruz Date/Time: 10-15-21 13:30 Company: SCS

Relinquished by _____ Date/Time: _____ Company: _____

Relinquished by _____ Date/Time: _____ Company: _____

Custody Seals Intact: Δ Yes Δ No Custody Seal No.: _____

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/QC Requirements: _____

Method of Shipment: _____

Received by: [Signature] Date/Time: 10/15/21 - 13:30 Company: PON

Received by: [Signature] Date/Time: 10/15/21 1645 Company: _____

Relinquished by: [Signature] Date/Time: _____ Company: _____

| | | | | | | | |
|--------------------------------------|--|--------------------------------------------------------------|--|-----------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Client Information | | Sampler: Rosa Cruz | | Lab PM: Fredrick Sandie | | Carrier Tracking No(s): 310-64861-14654.2 | |
| Client Contact: Rosa Cruz | | Phone: 608-509-8245 | | E-Mail: sandra.fredrick@eurofinset.com | | Page: Page 2 of 2 | |
| Company: SCS Engineers | | Address: 8450 Hickman Road Suite 27 | | City: Clive | | Job #: Page 2 of 2 | |
| State: IA | | Zip: 50325 | | Compliance Project: Yes No | | Preservation Codes: | |
| Phone: 25221066 | | PO #: 25221066 | | WC #: 31011020 | | A - HCl B - NaOH C - Zn Acetate D - Nitric Acid E - H ₂ SO ₄ F - NaOH G - Amchlor H - Ascorbic Acid I - Ica J - DI Water K - EDTA L - EDA Other: | |
| Email: rcruz@scsengineers.com | | Project Name: Burlington Gen Station 25221066 | | Site: SSOV# | | M - Hexane N - None O - AsNaO ₂ P - Na ₂ O ₄ S Q - Na ₂ SO ₃ R - Na ₂ SO ₃ S - H ₂ SO ₄ T - TSP Decahydrate U - Acetone V - MCAA W - pH 4.5 Z - other (specify) | |
| Sample Identification | | Due Date Requested: | | Field Filtered Sample (Yes or No) | | Total Number of Containers | |
| MW-309 | | TAT Requested (days): | | Perform MS/MSD (Yes or No) | | Special Instructions/Note: | |
| MW-310A | | Compliance Project: Yes No | | 6020A - Metals - Hg | | Analysis Requested | |
| MW-310X | | PO # | | 6030C - Calc'd, 9056A_ORGFM_28D, SM4500_H+ | | 904 0 - Radium 226 903 0 - Radium 226 | |
| MW-311 | | WC # | | 6020A - Metals - Hg | | M - Hexane N - None O - AsNaO ₂ P - Na ₂ O ₄ S Q - Na ₂ SO ₃ R - Na ₂ SO ₃ S - H ₂ SO ₄ T - TSP Decahydrate U - Acetone V - MCAA W - pH 4.5 Z - other (specify) | |
| MW-312 | | Project # | | 6030C - Calc'd, 9056A_ORGFM_28D, SM4500_H+ | | A - HCl B - NaOH C - Zn Acetate D - Nitric Acid E - H ₂ SO ₄ F - NaOH G - Amchlor H - Ascorbic Acid I - Ica J - DI Water K - EDTA L - EDA Other: | |
| MW-313 | | Site | | 6020A - Metals - Hg | | M - Hexane N - None O - AsNaO ₂ P - Na ₂ O ₄ S Q - Na ₂ SO ₃ R - Na ₂ SO ₃ S - H ₂ SO ₄ T - TSP Decahydrate U - Acetone V - MCAA W - pH 4.5 Z - other (specify) | |
| MW-313A | | Sample Date | | 6030C - Calc'd, 9056A_ORGFM_28D, SM4500_H+ | | A - HCl B - NaOH C - Zn Acetate D - Nitric Acid E - H ₂ SO ₄ F - NaOH G - Amchlor H - Ascorbic Acid I - Ica J - DI Water K - EDTA L - EDA Other: | |
| MW-313B | | Sample Time | | 6020A - Metals - Hg | | M - Hexane N - None O - AsNaO ₂ P - Na ₂ O ₄ S Q - Na ₂ SO ₃ R - Na ₂ SO ₃ S - H ₂ SO ₄ T - TSP Decahydrate U - Acetone V - MCAA W - pH 4.5 Z - other (specify) | |
| Field Blank | | Sample Type (C=Comp, G=grab) | | 6030C - Calc'd, 9056A_ORGFM_28D, SM4500_H+ | | A - HCl B - NaOH C - Zn Acetate D - Nitric Acid E - H ₂ SO ₄ F - NaOH G - Amchlor H - Ascorbic Acid I - Ica J - DI Water K - EDTA L - EDA Other: | |
| | | Preservation Code | | 6020A - Metals - Hg | | M - Hexane N - None O - AsNaO ₂ P - Na ₂ O ₄ S Q - Na ₂ SO ₃ R - Na ₂ SO ₃ S - H ₂ SO ₄ T - TSP Decahydrate U - Acetone V - MCAA W - pH 4.5 Z - other (specify) | |
| | | Matrix (W=water, S=solid, D=waste/dil, BI=biological, A=air) | | 6030C - Calc'd, 9056A_ORGFM_28D, SM4500_H+ | | A - HCl B - NaOH C - Zn Acetate D - Nitric Acid E - H ₂ SO ₄ F - NaOH G - Amchlor H - Ascorbic Acid I - Ica J - DI Water K - EDTA L - EDA Other: | |
| | | Sample Date | | 6020A - Metals - Hg | | M - Hexane N - None O - AsNaO ₂ P - Na ₂ O ₄ S Q - Na ₂ SO ₃ R - Na ₂ SO ₃ S - H ₂ SO ₄ T - TSP Decahydrate U - Acetone V - MCAA W - pH 4.5 Z - other (specify) | |
| | | Sample Time | | 6030C - Calc'd, 9056A_ORGFM_28D, SM4500_H+ | | A - HCl B - NaOH C - Zn Acetate D - Nitric Acid E - H ₂ SO ₄ F - NaOH G - Amchlor H - Ascorbic Acid I - Ica J - DI Water K - EDTA L - EDA Other: | |
| | | Preservation Code | | 6020A - Metals - Hg | | M - Hexane N - None O - AsNaO ₂ P - Na ₂ O ₄ S Q - Na ₂ SO ₃ R - Na ₂ SO ₃ S - H ₂ SO ₄ T - TSP Decahydrate U - Acetone V - MCAA W - pH 4.5 Z - other (specify) | |
| | | Matrix (W=water, S=solid, D=waste/dil, BI=biological, A=air) | | 6030C - Calc'd, 9056A_ORGFM_28D, SM4500_H+ | | A - HCl B - NaOH C - Zn Acetate D - Nitric Acid E - H ₂ SO ₄ F - NaOH G - Amchlor H - Ascorbic Acid I - Ica J - DI Water K - EDTA L - EDA Other: | |

Table 1. Sampling Points and Parameters - CCR Rule Sampling Program Assessments Monitoring Groundwater Monitoring - Burlington Generating Station / SCS Engineers Project #25221066

| Parameter | MW-301 | MW-302 | MW-302A | MW-303 | MW-304 | MW-305 | MW-306 | MW-307 | MW-307A | MW-307B | MW-308 | MW-309 | MW-310 | MW-310A | MW-311 | MW-312 | MW-313 | MW-313A | MW-313B | Field Blank | TOTAL | |
|------------------------------------------------------|--------|--------|---------|--------|--------|--------|--------|--------|---------|---------|--------|--------|--------|---------|--------|--------|--------|---------|---------|-------------|-------|----|
| Appendix III Parameters | | | | | | | | | | | | | | | | | | | | | | |
| Boron | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 20 |
| Calcium | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 20 |
| Chloride | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 20 |
| Fluoride | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 20 |
| pH | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 20 |
| Sulfate | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 20 |
| TDS | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 20 |
| Appendix IV Parameters | | | | | | | | | | | | | | | | | | | | | | |
| Antimony | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 20 |
| Arsenic | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 20 |
| Barium | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 20 |
| Beryllium | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 20 |
| Cadmium | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 20 |
| Chromium | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 20 |
| Cobalt | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 20 |
| Fluoride | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 20 |
| Lead | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 20 |
| Lithium | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 20 |
| Mercury | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 20 |
| Molybdenum | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 20 |
| Selenium | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 20 |
| Thallium | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 20 |
| Radium (report separately) | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 20 |
| Field Parameters | | | | | | | | | | | | | | | | | | | | | | |
| Ferrous Iron (Chemetrics) | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 19 |
| Sulfide (Chemetrics) | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 19 |
| Groundwater Elevation | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 19 |
| Well Depth | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 19 |
| pH (field) | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 19 |
| Specific Conductance | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 19 |
| Dissolved Oxygen | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 19 |
| ORP | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 19 |
| Temperature | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 19 |
| Turbidity | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 19 |
| Color | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 19 |
| Odor | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 19 |
| Additional Lab Parameters - REPORT SEPARATELY | | | | | | | | | | | | | | | | | | | | | | |
| Bicarbonate (total) | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 20 |
| Carbonate (total) | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 20 |
| Iron (total) | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 20 |
| Magnesium (total) | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 20 |
| Manganese (total) | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 20 |
| Potassium (total) | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 20 |
| Sodium (total) | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 20 |
| Iron (filtered) | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 19 |
| Lithium (filtered) | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 19 |
| Manganese (filtered) | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 19 |
| Molybdenum (filtered) | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 19 |

Notes:
 \\Maad-1401\data\Projects\25221066.00\Data and Calculations\Field Work Requests\Table_1_BGS_CCR_Rule_Sampling_2110.xls\Sheet1

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-217572-2

Login Number: 217572

List Source: Eurofins TestAmerica, Cedar Falls

List Number: 1

Creator: Homolar, Dana J

| Question | Answer | Comment |
|----------------------------------------------------------------------------------|--------|---------|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | N/A | |
| The cooler's custody seal, if present, is intact. | N/A | |
| Sample custody seals, if present, are intact. | N/A | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |



Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-217572-2

Login Number: 217572

List Number: 2

Creator: Johnson, Autumn R

List Source: Eurofins TestAmerica, St. Louis

List Creation: 10/19/21 12:30 PM

| Question | Answer | Comment |
|----------------------------------------------------------------------------------|--------|---------|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | True | |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | N/A | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

Tracer/Carrier Summary

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-217572-2

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

| Lab Sample ID | Client Sample ID | Percent Yield (Acceptance Limits) | |
|--------------------|------------------------|-----------------------------------|--|
| | | Ba (40-110) | |
| 310-217572-1 | MW-301 | 62.3 | |
| 310-217572-2 | MW-302 | 82.8 | |
| 310-217572-3 | MW-302A | 67.5 | |
| 310-217572-4 | MW-303 | 67.3 | |
| 310-217572-5 | MW-304 | 88.5 | |
| 310-217572-6 | MW-305 | 82.8 | |
| 310-217572-7 | MW-306 | 86.8 | |
| 310-217572-8 | MW-307 | 85.0 | |
| 310-217572-9 | MW-307A | 90.0 | |
| 310-217572-10 | MW-307B | 96.3 | |
| 310-217572-11 | MW-308 | 88.8 | |
| 310-217572-12 | MW-309 | 95.3 | |
| 310-217572-13 | MW-310A | 22.8 X | |
| 310-217572-14 | MW-310 | 87.5 | |
| 310-217572-15 | MW-311 | 88.8 | |
| 310-217572-16 | MW-312 | 93.8 | |
| 310-217572-17 | MW-313 | 92.5 | |
| 310-217572-18 | MW-313A | 56.3 | |
| 310-217572-19 | MW-313B | 95.5 | |
| 310-217572-20 | Field Blank | 85.0 | |
| LCS 160-533168/1-A | Lab Control Sample | 96.0 | |
| LCS 160-533168/2-A | Lab Control Sample Dup | 96.5 | |
| MB 160-533168/23-A | Method Blank | 90.5 | |

Tracer/Carrier Legend

Ba = Ba

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

| Lab Sample ID | Client Sample ID | Percent Yield (Acceptance Limits) | |
|---------------|------------------|-----------------------------------|---------------|
| | | Ba (40-110) | Y (40-110) |
| 310-217572-1 | MW-301 | 62.3 | 78.1 |
| 310-217572-2 | MW-302 | 82.8 | 79.6 |
| 310-217572-3 | MW-302A | 67.5 | 80.0 |
| 310-217572-4 | MW-303 | 67.3 | 78.1 |
| 310-217572-5 | MW-304 | 88.5 | 77.4 |
| 310-217572-6 | MW-305 | 82.8 | 75.5 |
| 310-217572-7 | MW-306 | 86.8 | 81.9 |
| 310-217572-8 | MW-307 | 85.0 | 83.0 |
| 310-217572-9 | MW-307A | 90.0 | 81.1 |
| 310-217572-10 | MW-307B | 96.3 | 81.5 |
| 310-217572-11 | MW-308 | 88.8 | 79.6 |
| 310-217572-12 | MW-309 | 95.3 | 85.6 |
| 310-217572-13 | MW-310A | 22.8 X | 78.1 |
| 310-217572-14 | MW-310 | 87.5 | 83.0 |
| 310-217572-15 | MW-311 | 88.8 | 86.7 |
| 310-217572-16 | MW-312 | 93.8 | 84.5 |
| 310-217572-17 | MW-313 | 92.5 | 79.6 |

Tracer/Carrier Summary

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-217572-2

Method: 904.0 - Radium-228 (GFPC) (Continued)

Matrix: Water

Prep Type: Total/NA

Percent Yield (Acceptance Limits)

| Lab Sample ID | Client Sample ID | Ba (40-110) | Y (40-110) |
|---------------------|------------------------|----------------|---------------|
| 310-217572-18 | MW-313A | 56.3 | 81.9 |
| 310-217572-19 | MW-313B | 78.2 | 84.1 |
| 310-217572-20 | Field Blank | 85.0 | 83.7 |
| LCS 160-533170/1-A | Lab Control Sample | 96.0 | 77.0 |
| LCS 160-536650/1-A | Lab Control Sample | 78.0 | 83.7 |
| LCSD 160-533170/2-A | Lab Control Sample Dup | 96.5 | 80.0 |
| LCSD 160-536650/2-A | Lab Control Sample Dup | 74.3 | 84.5 |
| MB 160-533170/23-A | Method Blank | 90.5 | 83.4 |
| MB 160-536650/4-A | Method Blank | 78.6 | 84.1 |

Tracer/Carrier Legend

Ba = Ba

Y = Y Carrier

ANALYTICAL REPORT

Eurofins TestAmerica, Cedar Falls
3019 Venture Way
Cedar Falls, IA 50613
Tel: (319)277-2401

Laboratory Job ID: 310-217564-1

Client Project/Site: Burlington Gen Station 25221066

For:

SCS Engineers
2830 Dairy Drive
Madison, Wisconsin 53718

Attn: Meghan Blodgett



*Authorized for release by:
10/29/2021 4:49:58 PM*

Sandie Fredrick, Project Manager II
(920)261-1660
sandra.fredrick@eurofinset.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Case Narrative

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-217564-1

Job ID: 310-217564-1

Laboratory: Eurofins TestAmerica, Cedar Falls

Narrative

Job Narrative
310-217564-1

Comments

No additional comments.

Receipt

The samples were received on 10/15/2021 4:45 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were -0.3° C, 0.8° C and 2.5° C.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Sample Summary

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-217564-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 310-217564-1 | MW-301 | Water | 10/13/21 09:05 | 10/15/21 16:45 |
| 310-217564-2 | MW-302 | Water | 10/12/21 14:40 | 10/15/21 16:45 |
| 310-217564-3 | MW-302A | Water | 10/12/21 15:40 | 10/15/21 16:45 |
| 310-217564-4 | MW-303 | Water | 10/13/21 10:05 | 10/15/21 16:45 |
| 310-217564-5 | MW-304 | Water | 10/13/21 11:50 | 10/15/21 16:45 |
| 310-217564-6 | MW-305 | Water | 10/14/21 12:30 | 10/15/21 16:45 |
| 310-217564-7 | MW-306 | Water | 10/11/21 14:00 | 10/15/21 16:45 |
| 310-217564-8 | MW-307 | Water | 10/11/21 15:35 | 10/15/21 16:45 |
| 310-217564-9 | MW-307A | Water | 10/11/21 17:50 | 10/15/21 16:45 |
| 310-217564-10 | MW-307B | Water | 10/11/21 17:00 | 10/15/21 16:45 |
| 310-217564-11 | MW-308 | Water | 10/12/21 13:36 | 10/15/21 16:45 |
| 310-217564-12 | MW-309 | Water | 10/12/21 12:20 | 10/15/21 16:45 |
| 310-217564-13 | MW-310 | Water | 10/12/21 09:15 | 10/15/21 16:45 |
| 310-217564-14 | MW-310A | Water | 10/14/21 09:30 | 10/15/21 16:45 |
| 310-217564-15 | MW-311 | Water | 10/12/21 11:00 | 10/15/21 16:45 |
| 310-217564-16 | MW-312 | Water | 10/14/21 11:10 | 10/15/21 16:45 |
| 310-217564-17 | MW-313 | Water | 10/13/21 13:00 | 10/15/21 16:45 |
| 310-217564-18 | MW-313A | Water | 10/13/21 14:00 | 10/15/21 16:45 |
| 310-217564-19 | MW-313B | Water | 10/13/21 15:25 | 10/15/21 16:45 |
| 310-217564-20 | Field Blank | Water | 10/14/21 14:20 | 10/15/21 16:45 |



Detection Summary

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-217564-1

Client Sample ID: MW-301

Lab Sample ID: 310-217564-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------------------------------|--------|-----------|------|-----|------|---------|---|----------|-----------|
| Iron | 38000 | | 100 | 36 | ug/L | 1 | | 6020A | Total/NA |
| Magnesium | 72000 | | 500 | 100 | ug/L | 1 | | 6020A | Total/NA |
| Manganese | 15000 | | 100 | 44 | ug/L | 10 | | 6020A | Total/NA |
| Potassium | 3300 | | 500 | 150 | ug/L | 1 | | 6020A | Total/NA |
| Sodium | 110000 | | 1000 | 610 | ug/L | 1 | | 6020A | Total/NA |
| Iron | 39000 | | 100 | 36 | ug/L | 1 | | 6020A | Dissolved |
| Lithium | 10 | | 10 | 2.5 | ug/L | 1 | | 6020A | Dissolved |
| Manganese | 16000 | | 100 | 44 | ug/L | 10 | | 6020A | Dissolved |
| Molybdenum | 49 | | 2.0 | 1.3 | ug/L | 1 | | 6020A | Dissolved |
| Bicarbonate Alkalinity as CaCO3 | 650 | | 10 | 4.6 | mg/L | 1 | | SM 2320B | Total/NA |
| Total Alkalinity as CaCO3 | 650 | | 10 | 4.6 | mg/L | 1 | | SM 2320B | Total/NA |

Client Sample ID: MW-302

Lab Sample ID: 310-217564-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------------------------------|--------|-----------|------|-----|------|---------|---|----------|-----------|
| Iron | 3600 | | 100 | 36 | ug/L | 1 | | 6020A | Total/NA |
| Magnesium | 17000 | | 500 | 100 | ug/L | 1 | | 6020A | Total/NA |
| Manganese | 1700 | | 10 | 4.4 | ug/L | 1 | | 6020A | Total/NA |
| Potassium | 12000 | | 500 | 150 | ug/L | 1 | | 6020A | Total/NA |
| Sodium | 28000 | | 1000 | 610 | ug/L | 1 | | 6020A | Total/NA |
| Iron | 2900 | | 100 | 36 | ug/L | 1 | | 6020A | Dissolved |
| Lithium | 63 | | 10 | 2.5 | ug/L | 1 | | 6020A | Dissolved |
| Manganese | 1700 | | 10 | 4.4 | ug/L | 1 | | 6020A | Dissolved |
| Molybdenum | 110 | | 2.0 | 1.3 | ug/L | 1 | | 6020A | Dissolved |
| Bicarbonate Alkalinity as CaCO3 | 560 | | 10 | 4.6 | mg/L | 1 | | SM 2320B | Total/NA |
| Total Alkalinity as CaCO3 | 560 | | 10 | 4.6 | mg/L | 1 | | SM 2320B | Total/NA |

Client Sample ID: MW-302A

Lab Sample ID: 310-217564-3

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------------------------------|--------|-----------|------|-----|------|---------|---|----------|-----------|
| Iron | 6900 | | 100 | 36 | ug/L | 1 | | 6020A | Total/NA |
| Magnesium | 33000 | | 500 | 100 | ug/L | 1 | | 6020A | Total/NA |
| Manganese | 3500 | | 10 | 4.4 | ug/L | 1 | | 6020A | Total/NA |
| Potassium | 3600 | | 500 | 150 | ug/L | 1 | | 6020A | Total/NA |
| Sodium | 51000 | | 1000 | 610 | ug/L | 1 | | 6020A | Total/NA |
| Iron | 6600 | | 100 | 36 | ug/L | 1 | | 6020A | Dissolved |
| Lithium | 12 | | 10 | 2.5 | ug/L | 1 | | 6020A | Dissolved |
| Manganese | 3300 | | 10 | 4.4 | ug/L | 1 | | 6020A | Dissolved |
| Molybdenum | 99 | | 2.0 | 1.3 | ug/L | 1 | | 6020A | Dissolved |
| Bicarbonate Alkalinity as CaCO3 | 200 | | 10 | 4.6 | mg/L | 1 | | SM 2320B | Total/NA |
| Total Alkalinity as CaCO3 | 200 | | 10 | 4.6 | mg/L | 1 | | SM 2320B | Total/NA |

Client Sample ID: MW-303

Lab Sample ID: 310-217564-4

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-----------|--------|-----------|------|-----|------|---------|---|--------|-----------|
| Iron | 6900 | | 100 | 36 | ug/L | 1 | | 6020A | Total/NA |
| Magnesium | 20000 | | 500 | 100 | ug/L | 1 | | 6020A | Total/NA |
| Manganese | 4000 | | 10 | 4.4 | ug/L | 1 | | 6020A | Total/NA |
| Potassium | 18000 | | 500 | 150 | ug/L | 1 | | 6020A | Total/NA |
| Sodium | 28000 | | 1000 | 610 | ug/L | 1 | | 6020A | Total/NA |
| Iron | 7000 | | 100 | 36 | ug/L | 1 | | 6020A | Dissolved |
| Lithium | 62 | | 10 | 2.5 | ug/L | 1 | | 6020A | Dissolved |

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Cedar Falls

Detection Summary

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-217564-1

Client Sample ID: MW-303 (Continued)

Lab Sample ID: 310-217564-4

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------------------------------|--------|-----------|-----|-----|------|---------|---|----------|-----------|
| Manganese | 4000 | | 10 | 4.4 | ug/L | 1 | | 6020A | Dissolved |
| Molybdenum | 130 | | 2.0 | 1.3 | ug/L | 1 | | 6020A | Dissolved |
| Bicarbonate Alkalinity as CaCO3 | 270 | | 10 | 4.6 | mg/L | 1 | | SM 2320B | Total/NA |
| Total Alkalinity as CaCO3 | 270 | | 10 | 4.6 | mg/L | 1 | | SM 2320B | Total/NA |

Client Sample ID: MW-304

Lab Sample ID: 310-217564-5

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------------------------------|--------|-----------|------|-----|------|---------|---|----------|-----------|
| Iron | 2000 | | 100 | 36 | ug/L | 1 | | 6020A | Total/NA |
| Magnesium | 6600 | | 500 | 100 | ug/L | 1 | | 6020A | Total/NA |
| Manganese | 1100 | | 10 | 4.4 | ug/L | 1 | | 6020A | Total/NA |
| Potassium | 12000 | | 500 | 150 | ug/L | 1 | | 6020A | Total/NA |
| Sodium | 46000 | | 1000 | 610 | ug/L | 1 | | 6020A | Total/NA |
| Iron | 1900 | | 100 | 36 | ug/L | 1 | | 6020A | Dissolved |
| Lithium | 61 | | 10 | 2.5 | ug/L | 1 | | 6020A | Dissolved |
| Manganese | 1100 | | 10 | 4.4 | ug/L | 1 | | 6020A | Dissolved |
| Molybdenum | 90 | | 2.0 | 1.3 | ug/L | 1 | | 6020A | Dissolved |
| Bicarbonate Alkalinity as CaCO3 | 250 | | 10 | 4.6 | mg/L | 1 | | SM 2320B | Total/NA |
| Total Alkalinity as CaCO3 | 250 | | 10 | 4.6 | mg/L | 1 | | SM 2320B | Total/NA |

Client Sample ID: MW-305

Lab Sample ID: 310-217564-6

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------------------------------|--------|-----------|------|-----|------|---------|---|----------|-----------|
| Iron | 2100 | | 100 | 36 | ug/L | 1 | | 6020A | Total/NA |
| Magnesium | 24000 | | 500 | 100 | ug/L | 1 | | 6020A | Total/NA |
| Manganese | 2800 | | 10 | 4.4 | ug/L | 1 | | 6020A | Total/NA |
| Potassium | 6100 | | 500 | 150 | ug/L | 1 | | 6020A | Total/NA |
| Sodium | 53000 | | 1000 | 610 | ug/L | 1 | | 6020A | Total/NA |
| Iron | 2100 | | 100 | 36 | ug/L | 1 | | 6020A | Dissolved |
| Lithium | 31 | | 10 | 2.5 | ug/L | 1 | | 6020A | Dissolved |
| Manganese | 2900 | | 10 | 4.4 | ug/L | 1 | | 6020A | Dissolved |
| Bicarbonate Alkalinity as CaCO3 | 550 | | 10 | 4.6 | mg/L | 1 | | SM 2320B | Total/NA |
| Total Alkalinity as CaCO3 | 550 | | 10 | 4.6 | mg/L | 1 | | SM 2320B | Total/NA |

Client Sample ID: MW-306

Lab Sample ID: 310-217564-7

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------------------------------|--------|-----------|------|-----|------|---------|---|----------|-----------|
| Magnesium | 120 | J | 500 | 100 | ug/L | 1 | | 6020A | Total/NA |
| Manganese | 7.7 | J | 10 | 4.4 | ug/L | 1 | | 6020A | Total/NA |
| Potassium | 20000 | | 500 | 150 | ug/L | 1 | | 6020A | Total/NA |
| Sodium | 45000 | | 1000 | 610 | ug/L | 1 | | 6020A | Total/NA |
| Lithium | 38 | | 10 | 2.5 | ug/L | 1 | | 6020A | Dissolved |
| Manganese | 8.0 | J | 10 | 4.4 | ug/L | 1 | | 6020A | Dissolved |
| Molybdenum | 77 | | 2.0 | 1.3 | ug/L | 1 | | 6020A | Dissolved |
| Bicarbonate Alkalinity as CaCO3 | 95 | | 10 | 4.6 | mg/L | 1 | | SM 2320B | Total/NA |
| Total Alkalinity as CaCO3 | 95 | | 10 | 4.6 | mg/L | 1 | | SM 2320B | Total/NA |

Client Sample ID: MW-307

Lab Sample ID: 310-217564-8

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-----------|--------|-----------|------|-----|------|---------|---|--------|-----------|
| Manganese | 6.4 | J | 10 | 4.4 | ug/L | 1 | | 6020A | Total/NA |
| Potassium | 36000 | | 500 | 150 | ug/L | 1 | | 6020A | Total/NA |
| Sodium | 49000 | | 1000 | 610 | ug/L | 1 | | 6020A | Total/NA |

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Cedar Falls

Detection Summary

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-217564-1

Client Sample ID: MW-307 (Continued)

Lab Sample ID: 310-217564-8

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------------------------------|--------|-----------|-----|-----|------|---------|---|----------|-----------|
| Lithium | 50 | | 10 | 2.5 | ug/L | 1 | | 6020A | Dissolved |
| Manganese | 6.5 | J | 10 | 4.4 | ug/L | 1 | | 6020A | Dissolved |
| Molybdenum | 90 | | 2.0 | 1.3 | ug/L | 1 | | 6020A | Dissolved |
| Bicarbonate Alkalinity as CaCO3 | 9.5 | J | 10 | 4.6 | mg/L | 1 | | SM 2320B | Total/NA |
| Carbonate Alkalinity as CaCO3 | 110 | | 10 | 4.6 | mg/L | 1 | | SM 2320B | Total/NA |
| Total Alkalinity as CaCO3 | 120 | | 10 | 4.6 | mg/L | 1 | | SM 2320B | Total/NA |

Client Sample ID: MW-307A

Lab Sample ID: 310-217564-9

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------------------------------|--------|-----------|------|-----|------|---------|---|----------|-----------|
| Iron | 450 | | 100 | 36 | ug/L | 1 | | 6020A | Total/NA |
| Magnesium | 1500 | | 500 | 100 | ug/L | 1 | | 6020A | Total/NA |
| Manganese | 390 | | 10 | 4.4 | ug/L | 1 | | 6020A | Total/NA |
| Potassium | 2800 | | 500 | 150 | ug/L | 1 | | 6020A | Total/NA |
| Sodium | 100000 | | 1000 | 610 | ug/L | 1 | | 6020A | Total/NA |
| Iron | 390 | | 100 | 36 | ug/L | 1 | | 6020A | Dissolved |
| Lithium | 6.9 | J | 10 | 2.5 | ug/L | 1 | | 6020A | Dissolved |
| Manganese | 390 | | 10 | 4.4 | ug/L | 1 | | 6020A | Dissolved |
| Molybdenum | 120 | | 2.0 | 1.3 | ug/L | 1 | | 6020A | Dissolved |
| Bicarbonate Alkalinity as CaCO3 | 100 | | 10 | 4.6 | mg/L | 1 | | SM 2320B | Total/NA |
| Total Alkalinity as CaCO3 | 100 | | 10 | 4.6 | mg/L | 1 | | SM 2320B | Total/NA |

Client Sample ID: MW-307B

Lab Sample ID: 310-217564-10

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------------------------------|--------|-----------|------|-----|------|---------|---|----------|-----------|
| Iron | 1300 | | 100 | 36 | ug/L | 1 | | 6020A | Total/NA |
| Magnesium | 16000 | | 500 | 100 | ug/L | 1 | | 6020A | Total/NA |
| Manganese | 310 | | 10 | 4.4 | ug/L | 1 | | 6020A | Total/NA |
| Potassium | 1600 | | 500 | 150 | ug/L | 1 | | 6020A | Total/NA |
| Sodium | 16000 | | 1000 | 610 | ug/L | 1 | | 6020A | Total/NA |
| Iron | 1200 | | 100 | 36 | ug/L | 1 | | 6020A | Dissolved |
| Lithium | 7.0 | J | 10 | 2.5 | ug/L | 1 | | 6020A | Dissolved |
| Manganese | 330 | | 10 | 4.4 | ug/L | 1 | | 6020A | Dissolved |
| Molybdenum | 28 | | 2.0 | 1.3 | ug/L | 1 | | 6020A | Dissolved |
| Bicarbonate Alkalinity as CaCO3 | 160 | | 10 | 4.6 | mg/L | 1 | | SM 2320B | Total/NA |
| Total Alkalinity as CaCO3 | 160 | | 10 | 4.6 | mg/L | 1 | | SM 2320B | Total/NA |

Client Sample ID: MW-308

Lab Sample ID: 310-217564-11

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------------------------------|--------|-----------|------|-----|------|---------|---|----------|-----------|
| Magnesium | 420 | J | 500 | 100 | ug/L | 1 | | 6020A | Total/NA |
| Manganese | 32 | | 10 | 4.4 | ug/L | 1 | | 6020A | Total/NA |
| Potassium | 40000 | | 500 | 150 | ug/L | 1 | | 6020A | Total/NA |
| Sodium | 79000 | | 1000 | 610 | ug/L | 1 | | 6020A | Total/NA |
| Lithium | 57 | | 10 | 2.5 | ug/L | 1 | | 6020A | Dissolved |
| Manganese | 30 | | 10 | 4.4 | ug/L | 1 | | 6020A | Dissolved |
| Molybdenum | 82 | | 2.0 | 1.3 | ug/L | 1 | | 6020A | Dissolved |
| Bicarbonate Alkalinity as CaCO3 | 4.7 | J | 5.0 | 2.3 | mg/L | 1 | | SM 2320B | Total/NA |
| Carbonate Alkalinity as CaCO3 | 95 | | 5.0 | 2.3 | mg/L | 1 | | SM 2320B | Total/NA |
| Total Alkalinity as CaCO3 | 99 | | 5.0 | 2.3 | mg/L | 1 | | SM 2320B | Total/NA |

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Cedar Falls

Detection Summary

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-217564-1

Client Sample ID: MW-309

Lab Sample ID: 310-217564-12

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------------------------------|--------|-----------|------|-----|------|---------|---|----------|-----------|
| Iron | 15000 | | 100 | 36 | ug/L | 1 | | 6020A | Total/NA |
| Magnesium | 22000 | | 500 | 100 | ug/L | 1 | | 6020A | Total/NA |
| Manganese | 3500 | | 10 | 4.4 | ug/L | 1 | | 6020A | Total/NA |
| Potassium | 2600 | | 500 | 150 | ug/L | 1 | | 6020A | Total/NA |
| Sodium | 79000 | | 1000 | 610 | ug/L | 1 | | 6020A | Total/NA |
| Iron | 14000 | | 100 | 36 | ug/L | 1 | | 6020A | Dissolved |
| Lithium | 2.8 | J | 10 | 2.5 | ug/L | 1 | | 6020A | Dissolved |
| Manganese | 3500 | | 10 | 4.4 | ug/L | 1 | | 6020A | Dissolved |
| Molybdenum | 39 | | 2.0 | 1.3 | ug/L | 1 | | 6020A | Dissolved |
| Bicarbonate Alkalinity as CaCO3 | 280 | | 10 | 4.6 | mg/L | 1 | | SM 2320B | Total/NA |
| Total Alkalinity as CaCO3 | 280 | | 10 | 4.6 | mg/L | 1 | | SM 2320B | Total/NA |

Client Sample ID: MW-310

Lab Sample ID: 310-217564-13

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------------------------------|--------|-----------|------|-----|------|---------|---|----------|-----------|
| Iron | 15000 | | 100 | 36 | ug/L | 1 | | 6020A | Total/NA |
| Magnesium | 20000 | | 500 | 100 | ug/L | 1 | | 6020A | Total/NA |
| Manganese | 3900 | | 10 | 4.4 | ug/L | 1 | | 6020A | Total/NA |
| Potassium | 2100 | | 500 | 150 | ug/L | 1 | | 6020A | Total/NA |
| Sodium | 12000 | | 1000 | 610 | ug/L | 1 | | 6020A | Total/NA |
| Iron | 15000 | | 100 | 36 | ug/L | 1 | | 6020A | Dissolved |
| Manganese | 3900 | | 10 | 4.4 | ug/L | 1 | | 6020A | Dissolved |
| Molybdenum | 5.2 | | 2.0 | 1.3 | ug/L | 1 | | 6020A | Dissolved |
| Bicarbonate Alkalinity as CaCO3 | 280 | | 10 | 4.6 | mg/L | 1 | | SM 2320B | Total/NA |
| Total Alkalinity as CaCO3 | 280 | | 10 | 4.6 | mg/L | 1 | | SM 2320B | Total/NA |

Client Sample ID: MW-310A

Lab Sample ID: 310-217564-14

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------------------------------|--------|-----------|------|-----|------|---------|---|----------|-----------|
| Iron | 950 | | 100 | 36 | ug/L | 1 | | 6020A | Total/NA |
| Magnesium | 20000 | | 500 | 100 | ug/L | 1 | | 6020A | Total/NA |
| Manganese | 270 | | 10 | 4.4 | ug/L | 1 | | 6020A | Total/NA |
| Potassium | 5200 | | 500 | 150 | ug/L | 1 | | 6020A | Total/NA |
| Sodium | 140000 | | 1000 | 610 | ug/L | 1 | | 6020A | Total/NA |
| Lithium | 32 | | 10 | 2.5 | ug/L | 1 | | 6020A | Dissolved |
| Manganese | 170 | | 10 | 4.4 | ug/L | 1 | | 6020A | Dissolved |
| Molybdenum | 21 | | 2.0 | 1.3 | ug/L | 1 | | 6020A | Dissolved |
| Bicarbonate Alkalinity as CaCO3 | 440 | | 10 | 4.6 | mg/L | 1 | | SM 2320B | Total/NA |
| Total Alkalinity as CaCO3 | 440 | | 10 | 4.6 | mg/L | 1 | | SM 2320B | Total/NA |

Client Sample ID: MW-311

Lab Sample ID: 310-217564-15

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------------------------------|--------|-----------|------|-----|------|---------|---|----------|-----------|
| Iron | 15000 | | 100 | 36 | ug/L | 1 | | 6020A | Total/NA |
| Magnesium | 31000 | | 500 | 100 | ug/L | 1 | | 6020A | Total/NA |
| Manganese | 4800 | | 40 | 18 | ug/L | 4 | | 6020A | Total/NA |
| Potassium | 2200 | | 500 | 150 | ug/L | 1 | | 6020A | Total/NA |
| Sodium | 56000 | | 1000 | 610 | ug/L | 1 | | 6020A | Total/NA |
| Iron | 15000 | | 100 | 36 | ug/L | 1 | | 6020A | Dissolved |
| Manganese | 4800 | | 40 | 18 | ug/L | 4 | | 6020A | Dissolved |
| Molybdenum | 8.0 | | 2.0 | 1.3 | ug/L | 1 | | 6020A | Dissolved |
| Bicarbonate Alkalinity as CaCO3 | 430 | | 10 | 4.6 | mg/L | 1 | | SM 2320B | Total/NA |

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Cedar Falls

Detection Summary

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-217564-1

Client Sample ID: MW-311 (Continued)

Lab Sample ID: 310-217564-15

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------------------------|--------|-----------|----|-----|------|---------|---|----------|-----------|
| Total Alkalinity as CaCO3 | 430 | | 10 | 4.6 | mg/L | 1 | | SM 2320B | Total/NA |

Client Sample ID: MW-312

Lab Sample ID: 310-217564-16

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------------------------------|--------|-----------|------|-----|------|---------|---|----------|-----------|
| Iron | 8500 | | 100 | 36 | ug/L | 1 | | 6020A | Total/NA |
| Magnesium | 9700 | | 500 | 100 | ug/L | 1 | | 6020A | Total/NA |
| Manganese | 5900 | | 40 | 18 | ug/L | 4 | | 6020A | Total/NA |
| Potassium | 11000 | | 500 | 150 | ug/L | 1 | | 6020A | Total/NA |
| Sodium | 68000 | | 1000 | 610 | ug/L | 1 | | 6020A | Total/NA |
| Iron | 8500 | | 100 | 36 | ug/L | 1 | | 6020A | Dissolved |
| Lithium | 23 | | 10 | 2.5 | ug/L | 1 | | 6020A | Dissolved |
| Manganese | 5900 | | 40 | 18 | ug/L | 4 | | 6020A | Dissolved |
| Molybdenum | 250 | | 2.0 | 1.3 | ug/L | 1 | | 6020A | Dissolved |
| Bicarbonate Alkalinity as CaCO3 | 210 | | 10 | 4.6 | mg/L | 1 | | SM 2320B | Total/NA |
| Total Alkalinity as CaCO3 | 210 | | 10 | 4.6 | mg/L | 1 | | SM 2320B | Total/NA |

Client Sample ID: MW-313

Lab Sample ID: 310-217564-17

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------------------------------|--------|-----------|------|-----|------|---------|---|----------|-----------|
| Iron | 11000 | | 100 | 36 | ug/L | 1 | | 6020A | Total/NA |
| Magnesium | 16000 | | 500 | 100 | ug/L | 1 | | 6020A | Total/NA |
| Manganese | 4900 | | 40 | 18 | ug/L | 4 | | 6020A | Total/NA |
| Potassium | 5500 | | 500 | 150 | ug/L | 1 | | 6020A | Total/NA |
| Sodium | 160000 | | 1000 | 610 | ug/L | 1 | | 6020A | Total/NA |
| Iron | 9800 | | 100 | 36 | ug/L | 1 | | 6020A | Dissolved |
| Lithium | 19 | | 10 | 2.5 | ug/L | 1 | | 6020A | Dissolved |
| Manganese | 4700 | | 40 | 18 | ug/L | 4 | | 6020A | Dissolved |
| Molybdenum | 180 | | 2.0 | 1.3 | ug/L | 1 | | 6020A | Dissolved |
| Bicarbonate Alkalinity as CaCO3 | 110 | | 10 | 4.6 | mg/L | 1 | | SM 2320B | Total/NA |
| Total Alkalinity as CaCO3 | 110 | | 10 | 4.6 | mg/L | 1 | | SM 2320B | Total/NA |

Client Sample ID: MW-313A

Lab Sample ID: 310-217564-18

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------------------------------|--------|-----------|------|-----|------|---------|---|----------|-----------|
| Iron | 960 | | 100 | 36 | ug/L | 1 | | 6020A | Total/NA |
| Magnesium | 2400 | | 500 | 100 | ug/L | 1 | | 6020A | Total/NA |
| Manganese | 420 | | 10 | 4.4 | ug/L | 1 | | 6020A | Total/NA |
| Potassium | 7600 | | 500 | 150 | ug/L | 1 | | 6020A | Total/NA |
| Sodium | 130000 | | 1000 | 610 | ug/L | 1 | | 6020A | Total/NA |
| Iron | 920 | | 100 | 36 | ug/L | 1 | | 6020A | Dissolved |
| Lithium | 10 | | 10 | 2.5 | ug/L | 1 | | 6020A | Dissolved |
| Manganese | 420 | | 10 | 4.4 | ug/L | 1 | | 6020A | Dissolved |
| Molybdenum | 110 | | 2.0 | 1.3 | ug/L | 1 | | 6020A | Dissolved |
| Bicarbonate Alkalinity as CaCO3 | 130 | | 10 | 4.6 | mg/L | 1 | | SM 2320B | Total/NA |
| Total Alkalinity as CaCO3 | 130 | | 10 | 4.6 | mg/L | 1 | | SM 2320B | Total/NA |

Client Sample ID: MW-313B

Lab Sample ID: 310-217564-19

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-----------|--------|-----------|-----|-----|------|---------|---|--------|-----------|
| Iron | 730 | | 100 | 36 | ug/L | 1 | | 6020A | Total/NA |
| Magnesium | 5800 | | 500 | 100 | ug/L | 1 | | 6020A | Total/NA |
| Manganese | 410 | | 10 | 4.4 | ug/L | 1 | | 6020A | Total/NA |

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Cedar Falls

Detection Summary

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-217564-1

Client Sample ID: MW-313B (Continued)

Lab Sample ID: 310-217564-19

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------------------------------|--------|-----------|------|-----|------|---------|---|----------|-----------|
| Potassium | 6800 | | 500 | 150 | ug/L | 1 | | 6020A | Total/NA |
| Sodium | 110000 | | 1000 | 610 | ug/L | 1 | | 6020A | Total/NA |
| Iron | 700 | | 100 | 36 | ug/L | 1 | | 6020A | Dissolved |
| Lithium | 13 | | 10 | 2.5 | ug/L | 1 | | 6020A | Dissolved |
| Manganese | 390 | | 10 | 4.4 | ug/L | 1 | | 6020A | Dissolved |
| Molybdenum | 110 | | 2.0 | 1.3 | ug/L | 1 | | 6020A | Dissolved |
| Bicarbonate Alkalinity as CaCO3 | 140 | | 10 | 4.6 | mg/L | 1 | | SM 2320B | Total/NA |
| Total Alkalinity as CaCO3 | 140 | | 10 | 4.6 | mg/L | 1 | | SM 2320B | Total/NA |

Client Sample ID: Field Blank

Lab Sample ID: 310-217564-20

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Cedar Falls

Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-217564-1

Client Sample ID: MW-301

Lab Sample ID: 310-217564-1

Date Collected: 10/13/21 09:05

Matrix: Water

Date Received: 10/15/21 16:45

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-----|------|---|----------------|----------------|---------|
| Iron | 38000 | | 100 | 36 | ug/L | | 10/19/21 09:15 | 10/29/21 12:26 | 1 |
| Magnesium | 72000 | | 500 | 100 | ug/L | | 10/19/21 09:15 | 10/29/21 12:26 | 1 |
| Manganese | 15000 | | 100 | 44 | ug/L | | 10/19/21 09:15 | 10/29/21 16:12 | 10 |
| Potassium | 3300 | | 500 | 150 | ug/L | | 10/19/21 09:15 | 10/29/21 12:26 | 1 |
| Sodium | 110000 | | 1000 | 610 | ug/L | | 10/19/21 09:15 | 10/29/21 12:26 | 1 |

Method: 6020A - Metals (ICP/MS) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Iron | 39000 | | 100 | 36 | ug/L | | 10/19/21 09:15 | 10/29/21 14:20 | 1 |
| Lithium | 10 | | 10 | 2.5 | ug/L | | 10/19/21 09:15 | 10/29/21 14:20 | 1 |
| Manganese | 16000 | | 100 | 44 | ug/L | | 10/19/21 09:15 | 10/29/21 14:43 | 10 |
| Molybdenum | 49 | | 2.0 | 1.3 | ug/L | | 10/19/21 09:15 | 10/29/21 14:20 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Bicarbonate Alkalinity as CaCO3 | 650 | | 10 | 4.6 | mg/L | | | 10/25/21 08:23 | 1 |
| Carbonate Alkalinity as CaCO3 | <4.6 | | 10 | 4.6 | mg/L | | | 10/25/21 08:23 | 1 |
| Total Alkalinity as CaCO3 | 650 | | 10 | 4.6 | mg/L | | | 10/25/21 08:23 | 1 |

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Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-217564-1

Client Sample ID: MW-302

Lab Sample ID: 310-217564-2

Date Collected: 10/12/21 14:40

Matrix: Water

Date Received: 10/15/21 16:45

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-----|------|---|----------------|----------------|---------|
| Iron | 3600 | | 100 | 36 | ug/L | | 10/19/21 09:15 | 10/29/21 12:36 | 1 |
| Magnesium | 17000 | | 500 | 100 | ug/L | | 10/19/21 09:15 | 10/29/21 12:36 | 1 |
| Manganese | 1700 | | 10 | 4.4 | ug/L | | 10/19/21 09:15 | 10/29/21 12:36 | 1 |
| Potassium | 12000 | | 500 | 150 | ug/L | | 10/19/21 09:15 | 10/29/21 12:36 | 1 |
| Sodium | 28000 | | 1000 | 610 | ug/L | | 10/19/21 09:15 | 10/29/21 12:36 | 1 |

Method: 6020A - Metals (ICP/MS) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Iron | 2900 | | 100 | 36 | ug/L | | 10/19/21 09:15 | 10/29/21 14:51 | 1 |
| Lithium | 63 | | 10 | 2.5 | ug/L | | 10/19/21 09:15 | 10/29/21 14:51 | 1 |
| Manganese | 1700 | | 10 | 4.4 | ug/L | | 10/19/21 09:15 | 10/29/21 14:51 | 1 |
| Molybdenum | 110 | | 2.0 | 1.3 | ug/L | | 10/19/21 09:15 | 10/29/21 14:51 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Bicarbonate Alkalinity as CaCO3 | 560 | | 10 | 4.6 | mg/L | | | 10/22/21 08:43 | 1 |
| Carbonate Alkalinity as CaCO3 | <4.6 | | 10 | 4.6 | mg/L | | | 10/22/21 08:43 | 1 |
| Total Alkalinity as CaCO3 | 560 | | 10 | 4.6 | mg/L | | | 10/22/21 08:43 | 1 |

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Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-217564-1

Client Sample ID: MW-302A

Lab Sample ID: 310-217564-3

Date Collected: 10/12/21 15:40

Matrix: Water

Date Received: 10/15/21 16:45

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-----|------|---|----------------|----------------|---------|
| Iron | 6900 | | 100 | 36 | ug/L | | 10/19/21 09:15 | 10/29/21 12:49 | 1 |
| Magnesium | 33000 | | 500 | 100 | ug/L | | 10/19/21 09:15 | 10/29/21 12:49 | 1 |
| Manganese | 3500 | | 10 | 4.4 | ug/L | | 10/19/21 09:15 | 10/29/21 12:49 | 1 |
| Potassium | 3600 | | 500 | 150 | ug/L | | 10/19/21 09:15 | 10/29/21 12:49 | 1 |
| Sodium | 51000 | | 1000 | 610 | ug/L | | 10/19/21 09:15 | 10/29/21 12:49 | 1 |

Method: 6020A - Metals (ICP/MS) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Iron | 6600 | | 100 | 36 | ug/L | | 10/19/21 09:15 | 10/29/21 14:54 | 1 |
| Lithium | 12 | | 10 | 2.5 | ug/L | | 10/19/21 09:15 | 10/29/21 14:54 | 1 |
| Manganese | 3300 | | 10 | 4.4 | ug/L | | 10/19/21 09:15 | 10/29/21 14:54 | 1 |
| Molybdenum | 99 | | 2.0 | 1.3 | ug/L | | 10/19/21 09:15 | 10/29/21 14:54 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Bicarbonate Alkalinity as CaCO3 | 200 | | 10 | 4.6 | mg/L | | | 10/22/21 08:43 | 1 |
| Carbonate Alkalinity as CaCO3 | <4.6 | | 10 | 4.6 | mg/L | | | 10/22/21 08:43 | 1 |
| Total Alkalinity as CaCO3 | 200 | | 10 | 4.6 | mg/L | | | 10/22/21 08:43 | 1 |

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Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-217564-1

Client Sample ID: MW-303

Lab Sample ID: 310-217564-4

Date Collected: 10/13/21 10:05

Matrix: Water

Date Received: 10/15/21 16:45

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-----|------|---|----------------|----------------|---------|
| Iron | 6900 | | 100 | 36 | ug/L | | 10/19/21 09:15 | 10/29/21 12:52 | 1 |
| Magnesium | 20000 | | 500 | 100 | ug/L | | 10/19/21 09:15 | 10/29/21 12:52 | 1 |
| Manganese | 4000 | | 10 | 4.4 | ug/L | | 10/19/21 09:15 | 10/29/21 12:52 | 1 |
| Potassium | 18000 | | 500 | 150 | ug/L | | 10/19/21 09:15 | 10/29/21 12:52 | 1 |
| Sodium | 28000 | | 1000 | 610 | ug/L | | 10/19/21 09:15 | 10/29/21 12:52 | 1 |

Method: 6020A - Metals (ICP/MS) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Iron | 7000 | | 100 | 36 | ug/L | | 10/19/21 09:15 | 10/29/21 14:56 | 1 |
| Lithium | 62 | | 10 | 2.5 | ug/L | | 10/19/21 09:15 | 10/29/21 14:56 | 1 |
| Manganese | 4000 | | 10 | 4.4 | ug/L | | 10/19/21 09:15 | 10/29/21 14:56 | 1 |
| Molybdenum | 130 | | 2.0 | 1.3 | ug/L | | 10/19/21 09:15 | 10/29/21 14:56 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Bicarbonate Alkalinity as CaCO3 | 270 | | 10 | 4.6 | mg/L | | | 10/25/21 08:23 | 1 |
| Carbonate Alkalinity as CaCO3 | <4.6 | | 10 | 4.6 | mg/L | | | 10/25/21 08:23 | 1 |
| Total Alkalinity as CaCO3 | 270 | | 10 | 4.6 | mg/L | | | 10/25/21 08:23 | 1 |

Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-217564-1

Client Sample ID: MW-304

Lab Sample ID: 310-217564-5

Date Collected: 10/13/21 11:50

Matrix: Water

Date Received: 10/15/21 16:45

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-----|------|---|----------------|----------------|---------|
| Iron | 2000 | | 100 | 36 | ug/L | | 10/19/21 09:15 | 10/29/21 12:54 | 1 |
| Magnesium | 6600 | | 500 | 100 | ug/L | | 10/19/21 09:15 | 10/29/21 12:54 | 1 |
| Manganese | 1100 | | 10 | 4.4 | ug/L | | 10/19/21 09:15 | 10/29/21 12:54 | 1 |
| Potassium | 12000 | | 500 | 150 | ug/L | | 10/19/21 09:15 | 10/29/21 12:54 | 1 |
| Sodium | 46000 | | 1000 | 610 | ug/L | | 10/19/21 09:15 | 10/29/21 12:54 | 1 |

Method: 6020A - Metals (ICP/MS) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Iron | 1900 | | 100 | 36 | ug/L | | 10/19/21 09:15 | 10/29/21 14:59 | 1 |
| Lithium | 61 | | 10 | 2.5 | ug/L | | 10/19/21 09:15 | 10/29/21 14:59 | 1 |
| Manganese | 1100 | | 10 | 4.4 | ug/L | | 10/19/21 09:15 | 10/29/21 14:59 | 1 |
| Molybdenum | 90 | | 2.0 | 1.3 | ug/L | | 10/19/21 09:15 | 10/29/21 14:59 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Bicarbonate Alkalinity as CaCO3 | 250 | | 10 | 4.6 | mg/L | | | 10/25/21 08:23 | 1 |
| Carbonate Alkalinity as CaCO3 | <4.6 | | 10 | 4.6 | mg/L | | | 10/25/21 08:23 | 1 |
| Total Alkalinity as CaCO3 | 250 | | 10 | 4.6 | mg/L | | | 10/25/21 08:23 | 1 |

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Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-217564-1

Client Sample ID: MW-305

Lab Sample ID: 310-217564-6

Date Collected: 10/14/21 12:30

Matrix: Water

Date Received: 10/15/21 16:45

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-----|------|---|----------------|----------------|---------|
| Iron | 2100 | | 100 | 36 | ug/L | | 10/19/21 09:15 | 10/29/21 12:57 | 1 |
| Magnesium | 24000 | | 500 | 100 | ug/L | | 10/19/21 09:15 | 10/29/21 12:57 | 1 |
| Manganese | 2800 | | 10 | 4.4 | ug/L | | 10/19/21 09:15 | 10/29/21 12:57 | 1 |
| Potassium | 6100 | | 500 | 150 | ug/L | | 10/19/21 09:15 | 10/29/21 12:57 | 1 |
| Sodium | 53000 | | 1000 | 610 | ug/L | | 10/19/21 09:15 | 10/29/21 12:57 | 1 |

Method: 6020A - Metals (ICP/MS) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Iron | 2100 | | 100 | 36 | ug/L | | 10/19/21 09:15 | 10/29/21 15:01 | 1 |
| Lithium | 31 | | 10 | 2.5 | ug/L | | 10/19/21 09:15 | 10/29/21 15:01 | 1 |
| Manganese | 2900 | | 10 | 4.4 | ug/L | | 10/19/21 09:15 | 10/29/21 15:01 | 1 |
| Molybdenum | <1.3 | | 2.0 | 1.3 | ug/L | | 10/19/21 09:15 | 10/29/21 15:01 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Bicarbonate Alkalinity as CaCO3 | 550 | | 10 | 4.6 | mg/L | | | 10/25/21 08:23 | 1 |
| Carbonate Alkalinity as CaCO3 | <4.6 | | 10 | 4.6 | mg/L | | | 10/25/21 08:23 | 1 |
| Total Alkalinity as CaCO3 | 550 | | 10 | 4.6 | mg/L | | | 10/25/21 08:23 | 1 |



Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-217564-1

Client Sample ID: MW-306

Lab Sample ID: 310-217564-7

Date Collected: 10/11/21 14:00

Matrix: Water

Date Received: 10/15/21 16:45

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|------|-----|------|---|----------------|----------------|---------|
| Iron | <36 | | 100 | 36 | ug/L | | 10/19/21 09:15 | 10/29/21 12:59 | 1 |
| Magnesium | 120 | J | 500 | 100 | ug/L | | 10/19/21 09:15 | 10/29/21 12:59 | 1 |
| Manganese | 7.7 | J | 10 | 4.4 | ug/L | | 10/19/21 09:15 | 10/29/21 12:59 | 1 |
| Potassium | 20000 | | 500 | 150 | ug/L | | 10/19/21 09:15 | 10/29/21 12:59 | 1 |
| Sodium | 45000 | | 1000 | 610 | ug/L | | 10/19/21 09:15 | 10/29/21 12:59 | 1 |

Method: 6020A - Metals (ICP/MS) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------|------------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Iron | <36 | | 100 | 36 | ug/L | | 10/19/21 09:15 | 10/29/21 15:04 | 1 |
| Lithium | 38 | | 10 | 2.5 | ug/L | | 10/19/21 09:15 | 10/29/21 15:04 | 1 |
| Manganese | 8.0 | J | 10 | 4.4 | ug/L | | 10/19/21 09:15 | 10/29/21 15:04 | 1 |
| Molybdenum | 77 | | 2.0 | 1.3 | ug/L | | 10/19/21 09:15 | 10/29/21 15:04 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------------------|-----------|-----------|----|-----|------|---|----------|----------------|---------|
| Bicarbonate Alkalinity as CaCO3 | 95 | | 10 | 4.6 | mg/L | | | 10/22/21 08:43 | 1 |
| Carbonate Alkalinity as CaCO3 | <4.6 | | 10 | 4.6 | mg/L | | | 10/22/21 08:43 | 1 |
| Total Alkalinity as CaCO3 | 95 | | 10 | 4.6 | mg/L | | | 10/22/21 08:43 | 1 |



Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-217564-1

Client Sample ID: MW-307

Lab Sample ID: 310-217564-8

Date Collected: 10/11/21 15:35

Matrix: Water

Date Received: 10/15/21 16:45

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|------|-----|------|---|----------------|----------------|---------|
| Iron | <36 | | 100 | 36 | ug/L | | 10/19/21 09:15 | 10/29/21 13:02 | 1 |
| Magnesium | <100 | | 500 | 100 | ug/L | | 10/19/21 09:15 | 10/29/21 13:02 | 1 |
| Manganese | 6.4 | J | 10 | 4.4 | ug/L | | 10/19/21 09:15 | 10/29/21 13:02 | 1 |
| Potassium | 36000 | | 500 | 150 | ug/L | | 10/19/21 09:15 | 10/29/21 13:02 | 1 |
| Sodium | 49000 | | 1000 | 610 | ug/L | | 10/19/21 09:15 | 10/29/21 13:02 | 1 |

Method: 6020A - Metals (ICP/MS) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------|------------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Iron | <36 | | 100 | 36 | ug/L | | 10/19/21 09:15 | 10/29/21 15:06 | 1 |
| Lithium | 50 | | 10 | 2.5 | ug/L | | 10/19/21 09:15 | 10/29/21 15:06 | 1 |
| Manganese | 6.5 | J | 10 | 4.4 | ug/L | | 10/19/21 09:15 | 10/29/21 15:06 | 1 |
| Molybdenum | 90 | | 2.0 | 1.3 | ug/L | | 10/19/21 09:15 | 10/29/21 15:06 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------------------|------------|-----------|----|-----|------|---|----------|----------------|---------|
| Bicarbonate Alkalinity as CaCO3 | 9.5 | J | 10 | 4.6 | mg/L | | | 10/22/21 08:43 | 1 |
| Carbonate Alkalinity as CaCO3 | 110 | | 10 | 4.6 | mg/L | | | 10/22/21 08:43 | 1 |
| Total Alkalinity as CaCO3 | 120 | | 10 | 4.6 | mg/L | | | 10/22/21 08:43 | 1 |

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Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-217564-1

Client Sample ID: MW-307A

Lab Sample ID: 310-217564-9

Date Collected: 10/11/21 17:50

Matrix: Water

Date Received: 10/15/21 16:45

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-----|------|---|----------------|----------------|---------|
| Iron | 450 | | 100 | 36 | ug/L | | 10/19/21 09:15 | 10/29/21 13:05 | 1 |
| Magnesium | 1500 | | 500 | 100 | ug/L | | 10/19/21 09:15 | 10/29/21 13:05 | 1 |
| Manganese | 390 | | 10 | 4.4 | ug/L | | 10/19/21 09:15 | 10/29/21 13:05 | 1 |
| Potassium | 2800 | | 500 | 150 | ug/L | | 10/19/21 09:15 | 10/29/21 13:05 | 1 |
| Sodium | 100000 | | 1000 | 610 | ug/L | | 10/19/21 09:15 | 10/29/21 13:05 | 1 |

Method: 6020A - Metals (ICP/MS) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Iron | 390 | | 100 | 36 | ug/L | | 10/19/21 09:15 | 10/29/21 15:19 | 1 |
| Lithium | 6.9 | J | 10 | 2.5 | ug/L | | 10/19/21 09:15 | 10/29/21 15:19 | 1 |
| Manganese | 390 | | 10 | 4.4 | ug/L | | 10/19/21 09:15 | 10/29/21 15:19 | 1 |
| Molybdenum | 120 | | 2.0 | 1.3 | ug/L | | 10/19/21 09:15 | 10/29/21 15:19 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Bicarbonate Alkalinity as CaCO3 | 100 | | 10 | 4.6 | mg/L | | | 10/22/21 08:43 | 1 |
| Carbonate Alkalinity as CaCO3 | <4.6 | | 10 | 4.6 | mg/L | | | 10/22/21 08:43 | 1 |
| Total Alkalinity as CaCO3 | 100 | | 10 | 4.6 | mg/L | | | 10/22/21 08:43 | 1 |

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Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-217564-1

Client Sample ID: MW-307B

Lab Sample ID: 310-217564-10

Date Collected: 10/11/21 17:00

Matrix: Water

Date Received: 10/15/21 16:45

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-----|------|---|----------------|----------------|---------|
| Iron | 1300 | | 100 | 36 | ug/L | | 10/19/21 09:15 | 10/29/21 13:07 | 1 |
| Magnesium | 16000 | | 500 | 100 | ug/L | | 10/19/21 09:15 | 10/29/21 13:07 | 1 |
| Manganese | 310 | | 10 | 4.4 | ug/L | | 10/19/21 09:15 | 10/29/21 13:07 | 1 |
| Potassium | 1600 | | 500 | 150 | ug/L | | 10/19/21 09:15 | 10/29/21 13:07 | 1 |
| Sodium | 16000 | | 1000 | 610 | ug/L | | 10/19/21 09:15 | 10/29/21 13:07 | 1 |

Method: 6020A - Metals (ICP/MS) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Iron | 1200 | | 100 | 36 | ug/L | | 10/19/21 09:15 | 10/29/21 15:22 | 1 |
| Lithium | 7.0 | J | 10 | 2.5 | ug/L | | 10/19/21 09:15 | 10/29/21 15:22 | 1 |
| Manganese | 330 | | 10 | 4.4 | ug/L | | 10/19/21 09:15 | 10/29/21 15:22 | 1 |
| Molybdenum | 28 | | 2.0 | 1.3 | ug/L | | 10/19/21 09:15 | 10/29/21 15:22 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Bicarbonate Alkalinity as CaCO3 | 160 | | 10 | 4.6 | mg/L | | | 10/22/21 08:43 | 1 |
| Carbonate Alkalinity as CaCO3 | <4.6 | | 10 | 4.6 | mg/L | | | 10/22/21 08:43 | 1 |
| Total Alkalinity as CaCO3 | 160 | | 10 | 4.6 | mg/L | | | 10/22/21 08:43 | 1 |

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Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-217564-1

Client Sample ID: MW-308

Lab Sample ID: 310-217564-11

Date Collected: 10/12/21 13:36

Matrix: Water

Date Received: 10/15/21 16:45

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|------|-----|------|---|----------------|----------------|---------|
| Iron | <36 | | 100 | 36 | ug/L | | 10/19/21 09:15 | 10/29/21 13:10 | 1 |
| Magnesium | 420 | J | 500 | 100 | ug/L | | 10/19/21 09:15 | 10/29/21 13:10 | 1 |
| Manganese | 32 | | 10 | 4.4 | ug/L | | 10/19/21 09:15 | 10/29/21 13:10 | 1 |
| Potassium | 40000 | | 500 | 150 | ug/L | | 10/19/21 09:15 | 10/29/21 13:10 | 1 |
| Sodium | 79000 | | 1000 | 610 | ug/L | | 10/19/21 09:15 | 10/29/21 13:10 | 1 |

Method: 6020A - Metals (ICP/MS) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------|-----------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Iron | <36 | | 100 | 36 | ug/L | | 10/19/21 09:15 | 10/29/21 15:25 | 1 |
| Lithium | 57 | | 10 | 2.5 | ug/L | | 10/19/21 09:15 | 10/29/21 15:25 | 1 |
| Manganese | 30 | | 10 | 4.4 | ug/L | | 10/19/21 09:15 | 10/29/21 15:25 | 1 |
| Molybdenum | 82 | | 2.0 | 1.3 | ug/L | | 10/19/21 09:15 | 10/29/21 15:25 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------------------|------------|-----------|-----|-----|------|---|----------|----------------|---------|
| Bicarbonate Alkalinity as CaCO3 | 4.7 | J | 5.0 | 2.3 | mg/L | | | 10/22/21 08:43 | 1 |
| Carbonate Alkalinity as CaCO3 | 95 | | 5.0 | 2.3 | mg/L | | | 10/22/21 08:43 | 1 |
| Total Alkalinity as CaCO3 | 99 | | 5.0 | 2.3 | mg/L | | | 10/22/21 08:43 | 1 |

Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-217564-1

Client Sample ID: MW-309

Lab Sample ID: 310-217564-12

Date Collected: 10/12/21 12:20

Matrix: Water

Date Received: 10/15/21 16:45

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-----|------|---|----------------|----------------|---------|
| Iron | 15000 | | 100 | 36 | ug/L | | 10/19/21 09:15 | 10/29/21 13:25 | 1 |
| Magnesium | 22000 | | 500 | 100 | ug/L | | 10/19/21 09:15 | 10/29/21 13:25 | 1 |
| Manganese | 3500 | | 10 | 4.4 | ug/L | | 10/19/21 09:15 | 10/29/21 13:25 | 1 |
| Potassium | 2600 | | 500 | 150 | ug/L | | 10/19/21 09:15 | 10/29/21 13:25 | 1 |
| Sodium | 79000 | | 1000 | 610 | ug/L | | 10/19/21 09:15 | 10/29/21 13:25 | 1 |

Method: 6020A - Metals (ICP/MS) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Iron | 14000 | | 100 | 36 | ug/L | | 10/19/21 09:15 | 10/29/21 15:30 | 1 |
| Lithium | 2.8 | J | 10 | 2.5 | ug/L | | 10/19/21 09:15 | 10/29/21 15:30 | 1 |
| Manganese | 3500 | | 10 | 4.4 | ug/L | | 10/19/21 09:15 | 10/29/21 15:30 | 1 |
| Molybdenum | 39 | | 2.0 | 1.3 | ug/L | | 10/19/21 09:15 | 10/29/21 15:30 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Bicarbonate Alkalinity as CaCO3 | 280 | | 10 | 4.6 | mg/L | | | 10/22/21 08:43 | 1 |
| Carbonate Alkalinity as CaCO3 | <4.6 | | 10 | 4.6 | mg/L | | | 10/22/21 08:43 | 1 |
| Total Alkalinity as CaCO3 | 280 | | 10 | 4.6 | mg/L | | | 10/22/21 08:43 | 1 |



Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-217564-1

Client Sample ID: MW-310

Lab Sample ID: 310-217564-13

Date Collected: 10/12/21 09:15

Matrix: Water

Date Received: 10/15/21 16:45

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-----|------|---|----------------|----------------|---------|
| Iron | 15000 | | 100 | 36 | ug/L | | 10/19/21 09:15 | 10/29/21 13:28 | 1 |
| Magnesium | 20000 | | 500 | 100 | ug/L | | 10/19/21 09:15 | 10/29/21 13:28 | 1 |
| Manganese | 3900 | | 10 | 4.4 | ug/L | | 10/19/21 09:15 | 10/29/21 13:28 | 1 |
| Potassium | 2100 | | 500 | 150 | ug/L | | 10/19/21 09:15 | 10/29/21 13:28 | 1 |
| Sodium | 12000 | | 1000 | 610 | ug/L | | 10/19/21 09:15 | 10/29/21 13:28 | 1 |

Method: 6020A - Metals (ICP/MS) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Iron | 15000 | | 100 | 36 | ug/L | | 10/19/21 09:15 | 10/29/21 15:32 | 1 |
| Lithium | <2.5 | | 10 | 2.5 | ug/L | | 10/19/21 09:15 | 10/29/21 15:32 | 1 |
| Manganese | 3900 | | 10 | 4.4 | ug/L | | 10/19/21 09:15 | 10/29/21 15:32 | 1 |
| Molybdenum | 5.2 | | 2.0 | 1.3 | ug/L | | 10/19/21 09:15 | 10/29/21 15:32 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Bicarbonate Alkalinity as CaCO3 | 280 | | 10 | 4.6 | mg/L | | | 10/22/21 08:43 | 1 |
| Carbonate Alkalinity as CaCO3 | <4.6 | | 10 | 4.6 | mg/L | | | 10/22/21 08:43 | 1 |
| Total Alkalinity as CaCO3 | 280 | | 10 | 4.6 | mg/L | | | 10/22/21 08:43 | 1 |

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Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-217564-1

Client Sample ID: MW-310A

Lab Sample ID: 310-217564-14

Date Collected: 10/14/21 09:30

Matrix: Water

Date Received: 10/15/21 16:45

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-----|------|---|----------------|----------------|---------|
| Iron | 950 | | 100 | 36 | ug/L | | 10/19/21 09:15 | 10/29/21 13:30 | 1 |
| Magnesium | 20000 | | 500 | 100 | ug/L | | 10/19/21 09:15 | 10/29/21 13:30 | 1 |
| Manganese | 270 | | 10 | 4.4 | ug/L | | 10/19/21 09:15 | 10/29/21 13:30 | 1 |
| Potassium | 5200 | | 500 | 150 | ug/L | | 10/19/21 09:15 | 10/29/21 13:30 | 1 |
| Sodium | 140000 | | 1000 | 610 | ug/L | | 10/19/21 09:15 | 10/29/21 13:30 | 1 |

Method: 6020A - Metals (ICP/MS) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Iron | <36 | | 100 | 36 | ug/L | | 10/22/21 09:00 | 10/25/21 18:29 | 1 |
| Lithium | 32 | | 10 | 2.5 | ug/L | | 10/22/21 09:00 | 10/26/21 19:51 | 1 |
| Manganese | 170 | | 10 | 4.4 | ug/L | | 10/22/21 09:00 | 10/25/21 18:29 | 1 |
| Molybdenum | 21 | | 2.0 | 1.3 | ug/L | | 10/22/21 09:00 | 10/25/21 18:29 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Bicarbonate Alkalinity as CaCO3 | 440 | | 10 | 4.6 | mg/L | | | 10/22/21 11:41 | 1 |
| Carbonate Alkalinity as CaCO3 | <4.6 | | 10 | 4.6 | mg/L | | | 10/22/21 11:41 | 1 |
| Total Alkalinity as CaCO3 | 440 | | 10 | 4.6 | mg/L | | | 10/22/21 11:41 | 1 |

Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-217564-1

Client Sample ID: MW-311

Lab Sample ID: 310-217564-15

Date Collected: 10/12/21 11:00

Matrix: Water

Date Received: 10/15/21 16:45

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-----|------|---|----------------|----------------|---------|
| Iron | 15000 | | 100 | 36 | ug/L | | 10/19/21 09:15 | 10/29/21 13:33 | 1 |
| Magnesium | 31000 | | 500 | 100 | ug/L | | 10/19/21 09:15 | 10/29/21 13:33 | 1 |
| Manganese | 4800 | | 40 | 18 | ug/L | | 10/19/21 09:15 | 10/29/21 13:49 | 4 |
| Potassium | 2200 | | 500 | 150 | ug/L | | 10/19/21 09:15 | 10/29/21 13:33 | 1 |
| Sodium | 56000 | | 1000 | 610 | ug/L | | 10/19/21 09:15 | 10/29/21 13:33 | 1 |

Method: 6020A - Metals (ICP/MS) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Iron | 15000 | | 100 | 36 | ug/L | | 10/19/21 09:15 | 10/29/21 15:35 | 1 |
| Lithium | <2.5 | | 10 | 2.5 | ug/L | | 10/19/21 09:15 | 10/29/21 15:35 | 1 |
| Manganese | 4800 | | 40 | 18 | ug/L | | 10/19/21 09:15 | 10/29/21 16:01 | 4 |
| Molybdenum | 8.0 | | 2.0 | 1.3 | ug/L | | 10/19/21 09:15 | 10/29/21 15:35 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Bicarbonate Alkalinity as CaCO3 | 430 | | 10 | 4.6 | mg/L | | | 10/22/21 11:41 | 1 |
| Carbonate Alkalinity as CaCO3 | <4.6 | | 10 | 4.6 | mg/L | | | 10/22/21 11:41 | 1 |
| Total Alkalinity as CaCO3 | 430 | | 10 | 4.6 | mg/L | | | 10/22/21 11:41 | 1 |

Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-217564-1

Client Sample ID: MW-312

Lab Sample ID: 310-217564-16

Date Collected: 10/14/21 11:10

Matrix: Water

Date Received: 10/15/21 16:45

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-----|------|---|----------------|----------------|---------|
| Iron | 8500 | | 100 | 36 | ug/L | | 10/19/21 09:15 | 10/29/21 13:36 | 1 |
| Magnesium | 9700 | | 500 | 100 | ug/L | | 10/19/21 09:15 | 10/29/21 13:36 | 1 |
| Manganese | 5900 | | 40 | 18 | ug/L | | 10/19/21 09:15 | 10/29/21 14:02 | 4 |
| Potassium | 11000 | | 500 | 150 | ug/L | | 10/19/21 09:15 | 10/29/21 13:36 | 1 |
| Sodium | 68000 | | 1000 | 610 | ug/L | | 10/19/21 09:15 | 10/29/21 13:36 | 1 |

Method: 6020A - Metals (ICP/MS) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Iron | 8500 | | 100 | 36 | ug/L | | 10/19/21 09:15 | 10/29/21 15:38 | 1 |
| Lithium | 23 | | 10 | 2.5 | ug/L | | 10/19/21 09:15 | 10/29/21 15:38 | 1 |
| Manganese | 5900 | | 40 | 18 | ug/L | | 10/19/21 09:15 | 10/29/21 16:04 | 4 |
| Molybdenum | 250 | | 2.0 | 1.3 | ug/L | | 10/19/21 09:15 | 10/29/21 15:38 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Bicarbonate Alkalinity as CaCO3 | 210 | | 10 | 4.6 | mg/L | | | 10/22/21 11:41 | 1 |
| Carbonate Alkalinity as CaCO3 | <4.6 | | 10 | 4.6 | mg/L | | | 10/22/21 11:41 | 1 |
| Total Alkalinity as CaCO3 | 210 | | 10 | 4.6 | mg/L | | | 10/22/21 11:41 | 1 |

Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-217564-1

Client Sample ID: MW-313

Lab Sample ID: 310-217564-17

Date Collected: 10/13/21 13:00

Matrix: Water

Date Received: 10/15/21 16:45

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-----|------|---|----------------|----------------|---------|
| Iron | 11000 | | 100 | 36 | ug/L | | 10/19/21 09:15 | 10/29/21 13:38 | 1 |
| Magnesium | 16000 | | 500 | 100 | ug/L | | 10/19/21 09:15 | 10/29/21 13:38 | 1 |
| Manganese | 4900 | | 40 | 18 | ug/L | | 10/19/21 09:15 | 10/29/21 14:04 | 4 |
| Potassium | 5500 | | 500 | 150 | ug/L | | 10/19/21 09:15 | 10/29/21 13:38 | 1 |
| Sodium | 160000 | | 1000 | 610 | ug/L | | 10/19/21 09:15 | 10/29/21 13:38 | 1 |

Method: 6020A - Metals (ICP/MS) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Iron | 9800 | | 100 | 36 | ug/L | | 10/19/21 09:15 | 10/29/21 15:40 | 1 |
| Lithium | 19 | | 10 | 2.5 | ug/L | | 10/19/21 09:15 | 10/29/21 15:40 | 1 |
| Manganese | 4700 | | 40 | 18 | ug/L | | 10/19/21 09:15 | 10/29/21 16:06 | 4 |
| Molybdenum | 180 | | 2.0 | 1.3 | ug/L | | 10/19/21 09:15 | 10/29/21 15:40 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Bicarbonate Alkalinity as CaCO3 | 110 | | 10 | 4.6 | mg/L | | | 10/22/21 11:41 | 1 |
| Carbonate Alkalinity as CaCO3 | <4.6 | | 10 | 4.6 | mg/L | | | 10/22/21 11:41 | 1 |
| Total Alkalinity as CaCO3 | 110 | | 10 | 4.6 | mg/L | | | 10/22/21 11:41 | 1 |

Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-217564-1

Client Sample ID: MW-313A

Lab Sample ID: 310-217564-18

Date Collected: 10/13/21 14:00

Matrix: Water

Date Received: 10/15/21 16:45

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-----|------|---|----------------|----------------|---------|
| Iron | 960 | | 100 | 36 | ug/L | | 10/19/21 09:15 | 10/29/21 13:41 | 1 |
| Magnesium | 2400 | | 500 | 100 | ug/L | | 10/19/21 09:15 | 10/29/21 13:41 | 1 |
| Manganese | 420 | | 10 | 4.4 | ug/L | | 10/19/21 09:15 | 10/29/21 13:41 | 1 |
| Potassium | 7600 | | 500 | 150 | ug/L | | 10/19/21 09:15 | 10/29/21 13:41 | 1 |
| Sodium | 130000 | | 1000 | 610 | ug/L | | 10/19/21 09:15 | 10/29/21 13:41 | 1 |

Method: 6020A - Metals (ICP/MS) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Iron | 920 | | 100 | 36 | ug/L | | 10/19/21 09:15 | 10/29/21 15:43 | 1 |
| Lithium | 10 | | 10 | 2.5 | ug/L | | 10/19/21 09:15 | 10/29/21 15:43 | 1 |
| Manganese | 420 | | 10 | 4.4 | ug/L | | 10/19/21 09:15 | 10/29/21 15:43 | 1 |
| Molybdenum | 110 | | 2.0 | 1.3 | ug/L | | 10/19/21 09:15 | 10/29/21 15:43 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Bicarbonate Alkalinity as CaCO3 | 130 | | 10 | 4.6 | mg/L | | | 10/25/21 08:23 | 1 |
| Carbonate Alkalinity as CaCO3 | <4.6 | | 10 | 4.6 | mg/L | | | 10/25/21 08:23 | 1 |
| Total Alkalinity as CaCO3 | 130 | | 10 | 4.6 | mg/L | | | 10/25/21 08:23 | 1 |

Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-217564-1

Client Sample ID: MW-313B

Lab Sample ID: 310-217564-19

Date Collected: 10/13/21 15:25

Matrix: Water

Date Received: 10/15/21 16:45

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-----|------|---|----------------|----------------|---------|
| Iron | 730 | | 100 | 36 | ug/L | | 10/19/21 09:15 | 10/29/21 13:43 | 1 |
| Magnesium | 5800 | | 500 | 100 | ug/L | | 10/19/21 09:15 | 10/29/21 13:43 | 1 |
| Manganese | 410 | | 10 | 4.4 | ug/L | | 10/19/21 09:15 | 10/29/21 13:43 | 1 |
| Potassium | 6800 | | 500 | 150 | ug/L | | 10/19/21 09:15 | 10/29/21 13:43 | 1 |
| Sodium | 110000 | | 1000 | 610 | ug/L | | 10/19/21 09:15 | 10/29/21 13:43 | 1 |

Method: 6020A - Metals (ICP/MS) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Iron | 700 | | 100 | 36 | ug/L | | 10/19/21 09:15 | 10/29/21 15:56 | 1 |
| Lithium | 13 | | 10 | 2.5 | ug/L | | 10/19/21 09:15 | 10/29/21 15:56 | 1 |
| Manganese | 390 | | 10 | 4.4 | ug/L | | 10/19/21 09:15 | 10/29/21 15:56 | 1 |
| Molybdenum | 110 | | 2.0 | 1.3 | ug/L | | 10/19/21 09:15 | 10/29/21 15:56 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Bicarbonate Alkalinity as CaCO3 | 140 | | 10 | 4.6 | mg/L | | | 10/25/21 08:23 | 1 |
| Carbonate Alkalinity as CaCO3 | <4.6 | | 10 | 4.6 | mg/L | | | 10/25/21 08:23 | 1 |
| Total Alkalinity as CaCO3 | 140 | | 10 | 4.6 | mg/L | | | 10/25/21 08:23 | 1 |



Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-217564-1

Client Sample ID: Field Blank

Lab Sample ID: 310-217564-20

Date Collected: 10/14/21 14:20

Matrix: Water

Date Received: 10/15/21 16:45

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-----|------|---|----------------|----------------|---------|
| Iron | <36 | | 100 | 36 | ug/L | | 10/19/21 09:15 | 10/29/21 13:46 | 1 |
| Magnesium | <100 | | 500 | 100 | ug/L | | 10/19/21 09:15 | 10/29/21 13:46 | 1 |
| Manganese | <4.4 | | 10 | 4.4 | ug/L | | 10/19/21 09:15 | 10/29/21 13:46 | 1 |
| Potassium | <150 | | 500 | 150 | ug/L | | 10/19/21 09:15 | 10/29/21 13:46 | 1 |
| Sodium | <610 | | 1000 | 610 | ug/L | | 10/19/21 09:15 | 10/29/21 13:46 | 1 |

Method: 6020A - Metals (ICP/MS) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Iron | <36 | | 100 | 36 | ug/L | | 10/19/21 09:15 | 10/29/21 15:58 | 1 |
| Lithium | <2.5 | | 10 | 2.5 | ug/L | | 10/19/21 09:15 | 10/29/21 15:58 | 1 |
| Manganese | <4.4 | | 10 | 4.4 | ug/L | | 10/19/21 09:15 | 10/29/21 15:58 | 1 |
| Molybdenum | <1.3 | | 2.0 | 1.3 | ug/L | | 10/19/21 09:15 | 10/29/21 15:58 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Bicarbonate Alkalinity as CaCO3 | <2.3 | | 5.0 | 2.3 | mg/L | | | 10/27/21 11:44 | 1 |
| Carbonate Alkalinity as CaCO3 | <2.3 | | 5.0 | 2.3 | mg/L | | | 10/27/21 11:44 | 1 |
| Total Alkalinity as CaCO3 | <2.3 | | 5.0 | 2.3 | mg/L | | | 10/27/21 11:44 | 1 |

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Definitions/Glossary

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-217564-1

Qualifiers

Metals

| Qualifier | Qualifier Description |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4 | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

General Chemistry

| Qualifier | Qualifier Description |
|-----------|----------------------------------------------------------------------------------------------------------------|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|----------------|-------------------------------------------------------------------------------------------------------------|
| α | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CFU | Colony Forming Unit |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MCL | EPA recommended "Maximum Contaminant Level" |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| MPN | Most Probable Number |
| MQL | Method Quantitation Limit |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| NEG | Negative / Absent |
| POS | Positive / Present |
| PQL | Practical Quantitation Limit |
| PRES | Presumptive |
| QC | Quality Control |
| RER | Relative Error Ratio (Radiochemistry) |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |
| TNTC | Too Numerous To Count |

QC Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-217564-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 310-331964/1-A
Matrix: Water
Analysis Batch: 333580

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 331964

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|-----------|--------------|-----|-----|------|---|----------------|----------------|---------|
| Iron | <36 | | 100 | 36 | ug/L | | 10/19/21 09:15 | 10/29/21 14:15 | 1 |
| Lithium | <2.5 | | 10 | 2.5 | ug/L | | 10/19/21 09:15 | 10/29/21 14:15 | 1 |
| Manganese | <4.4 | | 10 | 4.4 | ug/L | | 10/19/21 09:15 | 10/29/21 14:15 | 1 |
| Molybdenum | <1.3 | | 2.0 | 1.3 | ug/L | | 10/19/21 09:15 | 10/29/21 14:15 | 1 |

Lab Sample ID: LCS 310-331964/2-A
Matrix: Water
Analysis Batch: 333580

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 331964

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits |
|------------|-------------|------------|---------------|------|---|------|----------|
| Iron | 200 | 197 | | ug/L | | 98 | 80 - 120 |
| Lithium | 200 | 196 | | ug/L | | 98 | 80 - 120 |
| Manganese | 100 | 94.7 | | ug/L | | 95 | 80 - 120 |
| Molybdenum | 200 | 192 | | ug/L | | 96 | 80 - 120 |

Lab Sample ID: MB 310-331965/1-A
Matrix: Water
Analysis Batch: 333580

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 331965

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|-----------|--------------|------|-----|------|---|----------------|----------------|---------|
| Iron | <36 | | 100 | 36 | ug/L | | 10/19/21 09:15 | 10/29/21 12:21 | 1 |
| Magnesium | <100 | | 500 | 100 | ug/L | | 10/19/21 09:15 | 10/29/21 12:21 | 1 |
| Manganese | <4.4 | | 10 | 4.4 | ug/L | | 10/19/21 09:15 | 10/29/21 12:21 | 1 |
| Potassium | <150 | | 500 | 150 | ug/L | | 10/19/21 09:15 | 10/29/21 12:21 | 1 |
| Sodium | <610 | | 1000 | 610 | ug/L | | 10/19/21 09:15 | 10/29/21 12:21 | 1 |

Lab Sample ID: LCS 310-331965/2-A
Matrix: Water
Analysis Batch: 333580

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 331965

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits |
|-----------|-------------|------------|---------------|------|---|------|----------|
| Iron | 200 | 203 | | ug/L | | 101 | 80 - 120 |
| Magnesium | 2000 | 2040 | | ug/L | | 102 | 80 - 120 |
| Manganese | 100 | 94.5 | | ug/L | | 95 | 80 - 120 |
| Potassium | 2000 | 1930 | | ug/L | | 96 | 80 - 120 |
| Sodium | 2000 | 1960 | | ug/L | | 98 | 80 - 120 |

Lab Sample ID: 310-217564-1 MS
Matrix: Water
Analysis Batch: 333580

Client Sample ID: MW-301
Prep Type: Total/NA
Prep Batch: 331965

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | Limits |
|-----------|---------------|------------------|-------------|-----------|--------------|------|---|------|----------|
| Iron | 38000 | | 200 | 38300 | 4 | ug/L | | -90 | 75 - 125 |
| Magnesium | 72000 | | 2000 | 74600 | 4 | ug/L | | 106 | 75 - 125 |
| Potassium | 3300 | | 2000 | 5300 | | ug/L | | 99 | 75 - 125 |
| Sodium | 110000 | | 2000 | 106000 | 4 | ug/L | | 60 | 75 - 125 |

QC Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-217564-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 310-217564-1 MS
Matrix: Water
Analysis Batch: 333580

Client Sample ID: MW-301
Prep Type: Total/NA
Prep Batch: 331965
%Rec.

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | Limits |
|-----------|---------------|------------------|-------------|-----------|--------------|------|---|------|----------|
| Manganese | 15000 | | 100 | 14900 | 4 | ug/L | | -118 | 75 - 125 |

Lab Sample ID: 310-217564-1 MSD
Matrix: Water
Analysis Batch: 333580

Client Sample ID: MW-301
Prep Type: Total/NA
Prep Batch: 331965
%Rec.

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
|-----------|---------------|------------------|-------------|------------|---------------|------|---|------|----------|-----|-------|
| Iron | 38000 | | 200 | 39400 | 4 | ug/L | | 434 | 75 - 125 | 3 | 20 |
| Magnesium | 72000 | | 2000 | 76300 | 4 | ug/L | | 191 | 75 - 125 | 2 | 20 |
| Potassium | 3300 | | 2000 | 5240 | | ug/L | | 96 | 75 - 125 | 1 | 20 |
| Sodium | 110000 | | 2000 | 107000 | 4 | ug/L | | 122 | 75 - 125 | 1 | 20 |

Lab Sample ID: 310-217564-1 MSD
Matrix: Water
Analysis Batch: 333580

Client Sample ID: MW-301
Prep Type: Total/NA
Prep Batch: 331965
%Rec.

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
|-----------|---------------|------------------|-------------|------------|---------------|------|---|------|----------|-----|-------|
| Manganese | 15000 | | 100 | 14900 | 4 | ug/L | | -94 | 75 - 125 | 0 | 20 |

Lab Sample ID: 310-217564-11 DU
Matrix: Water
Analysis Batch: 333580

Client Sample ID: MW-308
Prep Type: Total/NA
Prep Batch: 331965
%Rec.

| Analyte | Sample Result | Sample Qualifier | Spike Added | DU Result | DU Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
|-----------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------|-----|-------|
| Iron | <36 | | | <36 | | ug/L | | | | NC | 20 |
| Magnesium | 420 | J | | 382 | J | ug/L | | | | 10 | 20 |
| Manganese | 32 | | | 31.5 | | ug/L | | | | 3 | 20 |
| Potassium | 40000 | | | 39400 | | ug/L | | | | 2 | 20 |
| Sodium | 79000 | | | 76500 | | ug/L | | | | 3 | 20 |

Lab Sample ID: 310-217564-1 MS
Matrix: Water
Analysis Batch: 333580

Client Sample ID: MW-301
Prep Type: Dissolved
Prep Batch: 331964
%Rec.

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | Limits |
|------------|---------------|------------------|-------------|-----------|--------------|------|---|------|----------|
| Iron | 39000 | | 200 | 38600 | 4 | ug/L | | -180 | 75 - 125 |
| Lithium | 10 | | 200 | 191 | | ug/L | | 90 | 75 - 125 |
| Molybdenum | 49 | | 200 | 264 | | ug/L | | 107 | 75 - 125 |

Lab Sample ID: 310-217564-1 MS
Matrix: Water
Analysis Batch: 333580

Client Sample ID: MW-301
Prep Type: Dissolved
Prep Batch: 331964
%Rec.

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | Limits |
|-----------|---------------|------------------|-------------|-----------|--------------|------|---|------|----------|
| Manganese | 16000 | | 100 | 15900 | 4 | ug/L | | -447 | 75 - 125 |

QC Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-217564-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 310-217564-1 MSD
Matrix: Water
Analysis Batch: 333580

Client Sample ID: MW-301
Prep Type: Dissolved
Prep Batch: 331964

| Analyte | Sample | Sample | Spike | MSD | MSD | Unit | D | %Rec | %Rec. | RPD | Limit |
|------------|--------|-----------|-------|--------|-----------|------|---|------|----------|-----|-------|
| | Result | Qualifier | Added | Result | Qualifier | | | | Limits | | |
| Iron | 39000 | | 200 | 39600 | 4 | ug/L | | 358 | 75 - 125 | 3 | 20 |
| Lithium | 10 | | 200 | 191 | | ug/L | | 90 | 75 - 125 | 0 | 20 |
| Molybdenum | 49 | | 200 | 259 | | ug/L | | 105 | 75 - 125 | 2 | 20 |

Lab Sample ID: 310-217564-1 MSD
Matrix: Water
Analysis Batch: 333580

Client Sample ID: MW-301
Prep Type: Dissolved
Prep Batch: 331964

| Analyte | Sample | Sample | Spike | MSD | MSD | Unit | D | %Rec | %Rec. | RPD | Limit |
|-----------|--------|-----------|-------|--------|-----------|------|---|------|----------|-----|-------|
| | Result | Qualifier | Added | Result | Qualifier | | | | Limits | | |
| Manganese | 16000 | | 100 | 16600 | 4 | ug/L | | 184 | 75 - 125 | 4 | 20 |

Lab Sample ID: 310-217564-11 DU
Matrix: Water
Analysis Batch: 333580

Client Sample ID: MW-308
Prep Type: Dissolved
Prep Batch: 331964

| Analyte | Sample | Sample | DU | | Unit | D | RPD | Limit |
|------------|--------|-----------|--------|-----------|------|---|-----|-------|
| | Result | Qualifier | Result | Qualifier | | | | |
| Iron | <36 | | <36 | | ug/L | | NC | 20 |
| Lithium | 57 | | 58.6 | | ug/L | | 2 | 20 |
| Manganese | 30 | | 30.8 | | ug/L | | 1 | 20 |
| Molybdenum | 82 | | 86.5 | | ug/L | | 5 | 20 |

Lab Sample ID: MB 310-332333/1-B
Matrix: Water
Analysis Batch: 332936

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 332514

| Analyte | MB | MB | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Iron | <36 | | 100 | 36 | ug/L | | 10/22/21 09:00 | 10/25/21 18:24 | 1 |
| Manganese | <4.4 | | 10 | 4.4 | ug/L | | 10/22/21 09:00 | 10/25/21 18:24 | 1 |
| Molybdenum | <1.3 | | 2.0 | 1.3 | ug/L | | 10/22/21 09:00 | 10/25/21 18:24 | 1 |

Lab Sample ID: MB 310-332333/1-B
Matrix: Water
Analysis Batch: 333095

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 332514

| Analyte | MB | MB | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|-----|------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Lithium | <2.5 | | 10 | 2.5 | ug/L | | 10/22/21 09:00 | 10/26/21 19:48 | 1 |

Lab Sample ID: LCS 310-332333/2-B ^10
Matrix: Water
Analysis Batch: 333015

Client Sample ID: Lab Control Sample
Prep Type: Dissolved
Prep Batch: 332514

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. |
|------------|-------------|------------|---------------|------|---|------|----------|
| | | | | | | | Limits |
| Iron | 2000 | 2090 | | ug/L | | 104 | 80 - 120 |
| Lithium | 2000 | 1960 | | ug/L | | 98 | 80 - 120 |
| Manganese | 1000 | 1000 | | ug/L | | 100 | 80 - 120 |
| Molybdenum | 2000 | 1950 | | ug/L | | 97 | 80 - 120 |

QC Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-217564-1

Method: 2320B - Alkalinity (Low Level)

Lab Sample ID: MB 310-333138/1
Matrix: Water
Analysis Batch: 333138

Client Sample ID: Method Blank
Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------|-----------|--------------|-----|-----|------|---|----------|----------------|---------|
| Bicarbonate Alkalinity as CaCO3 | <2.3 | | 5.0 | 2.3 | mg/L | | | 10/27/21 11:44 | 1 |
| Carbonate Alkalinity as CaCO3 | <2.3 | | 5.0 | 2.3 | mg/L | | | 10/27/21 11:44 | 1 |
| Total Alkalinity as CaCO3 | <2.3 | | 5.0 | 2.3 | mg/L | | | 10/27/21 11:44 | 1 |

Lab Sample ID: LCS 310-333138/2
Matrix: Water
Analysis Batch: 333138

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------------------------|-------------|------------|---------------|------|---|------|--------------|
| Total Alkalinity as CaCO3 | 1000 | 974 | | mg/L | | 97 | 90 - 110 |

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 310-332595/1
Matrix: Water
Analysis Batch: 332595

Client Sample ID: Method Blank
Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------|-----------|--------------|-----|-----|------|---|----------|----------------|---------|
| Bicarbonate Alkalinity as CaCO3 | <2.3 | | 5.0 | 2.3 | mg/L | | | 10/22/21 08:43 | 1 |
| Carbonate Alkalinity as CaCO3 | <2.3 | | 5.0 | 2.3 | mg/L | | | 10/22/21 08:43 | 1 |
| Total Alkalinity as CaCO3 | <2.3 | | 5.0 | 2.3 | mg/L | | | 10/22/21 08:43 | 1 |

Lab Sample ID: LCS 310-332595/2
Matrix: Water
Analysis Batch: 332595

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------------------------|-------------|------------|---------------|------|---|------|--------------|
| Total Alkalinity as CaCO3 | 1000 | 946 | | mg/L | | 95 | 90 - 110 |

Lab Sample ID: MB 310-332632/1
Matrix: Water
Analysis Batch: 332632

Client Sample ID: Method Blank
Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------|-----------|--------------|-----|-----|------|---|----------|----------------|---------|
| Bicarbonate Alkalinity as CaCO3 | <2.3 | | 5.0 | 2.3 | mg/L | | | 10/22/21 11:41 | 1 |
| Carbonate Alkalinity as CaCO3 | <2.3 | | 5.0 | 2.3 | mg/L | | | 10/22/21 11:41 | 1 |
| Total Alkalinity as CaCO3 | <2.3 | | 5.0 | 2.3 | mg/L | | | 10/22/21 11:41 | 1 |

Lab Sample ID: LCS 310-332632/2
Matrix: Water
Analysis Batch: 332632

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------------------------|-------------|------------|---------------|------|---|------|--------------|
| Total Alkalinity as CaCO3 | 400 | 397 | | mg/L | | 99 | 90 - 110 |

QC Sample Results

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-217564-1

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: MB 310-332753/1
Matrix: Water
Analysis Batch: 332753

Client Sample ID: Method Blank
Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------|-----------|--------------|-----|-----|------|---|----------|----------------|---------|
| Bicarbonate Alkalinity as CaCO3 | <2.3 | | 5.0 | 2.3 | mg/L | | | 10/25/21 08:23 | 1 |
| Carbonate Alkalinity as CaCO3 | <2.3 | | 5.0 | 2.3 | mg/L | | | 10/25/21 08:23 | 1 |
| Total Alkalinity as CaCO3 | <2.3 | | 5.0 | 2.3 | mg/L | | | 10/25/21 08:23 | 1 |

Lab Sample ID: LCS 310-332753/2
Matrix: Water
Analysis Batch: 332753

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------------------------|-------------|------------|---------------|------|---|------|--------------|
| Total Alkalinity as CaCO3 | 1000 | 1040 | | mg/L | | 104 | 90 - 110 |

QC Association Summary

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-217564-1

Metals

Prep Batch: 331964

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 310-217564-1 | MW-301 | Dissolved | Water | 3010A | |
| 310-217564-2 | MW-302 | Dissolved | Water | 3010A | |
| 310-217564-3 | MW-302A | Dissolved | Water | 3010A | |
| 310-217564-4 | MW-303 | Dissolved | Water | 3010A | |
| 310-217564-5 | MW-304 | Dissolved | Water | 3010A | |
| 310-217564-6 | MW-305 | Dissolved | Water | 3010A | |
| 310-217564-7 | MW-306 | Dissolved | Water | 3010A | |
| 310-217564-8 | MW-307 | Dissolved | Water | 3010A | |
| 310-217564-9 | MW-307A | Dissolved | Water | 3010A | |
| 310-217564-10 | MW-307B | Dissolved | Water | 3010A | |
| 310-217564-11 | MW-308 | Dissolved | Water | 3010A | |
| 310-217564-12 | MW-309 | Dissolved | Water | 3010A | |
| 310-217564-13 | MW-310 | Dissolved | Water | 3010A | |
| 310-217564-15 | MW-311 | Dissolved | Water | 3010A | |
| 310-217564-16 | MW-312 | Dissolved | Water | 3010A | |
| 310-217564-17 | MW-313 | Dissolved | Water | 3010A | |
| 310-217564-18 | MW-313A | Dissolved | Water | 3010A | |
| 310-217564-19 | MW-313B | Dissolved | Water | 3010A | |
| 310-217564-20 | Field Blank | Dissolved | Water | 3010A | |
| MB 310-331964/1-A | Method Blank | Total/NA | Water | 3010A | |
| LCS 310-331964/2-A | Lab Control Sample | Total/NA | Water | 3010A | |
| 310-217564-1 MS | MW-301 | Dissolved | Water | 3010A | |
| 310-217564-1 MSD | MW-301 | Dissolved | Water | 3010A | |
| 310-217564-11 DU | MW-308 | Dissolved | Water | 3010A | |

Prep Batch: 331965

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 310-217564-1 | MW-301 | Total/NA | Water | 3010A | |
| 310-217564-2 | MW-302 | Total/NA | Water | 3010A | |
| 310-217564-3 | MW-302A | Total/NA | Water | 3010A | |
| 310-217564-4 | MW-303 | Total/NA | Water | 3010A | |
| 310-217564-5 | MW-304 | Total/NA | Water | 3010A | |
| 310-217564-6 | MW-305 | Total/NA | Water | 3010A | |
| 310-217564-7 | MW-306 | Total/NA | Water | 3010A | |
| 310-217564-8 | MW-307 | Total/NA | Water | 3010A | |
| 310-217564-9 | MW-307A | Total/NA | Water | 3010A | |
| 310-217564-10 | MW-307B | Total/NA | Water | 3010A | |
| 310-217564-11 | MW-308 | Total/NA | Water | 3010A | |
| 310-217564-12 | MW-309 | Total/NA | Water | 3010A | |
| 310-217564-13 | MW-310 | Total/NA | Water | 3010A | |
| 310-217564-14 | MW-310A | Total/NA | Water | 3010A | |
| 310-217564-15 | MW-311 | Total/NA | Water | 3010A | |
| 310-217564-16 | MW-312 | Total/NA | Water | 3010A | |
| 310-217564-17 | MW-313 | Total/NA | Water | 3010A | |
| 310-217564-18 | MW-313A | Total/NA | Water | 3010A | |
| 310-217564-19 | MW-313B | Total/NA | Water | 3010A | |
| 310-217564-20 | Field Blank | Total/NA | Water | 3010A | |
| MB 310-331965/1-A | Method Blank | Total/NA | Water | 3010A | |
| LCS 310-331965/2-A | Lab Control Sample | Total/NA | Water | 3010A | |
| 310-217564-1 MS | MW-301 | Total/NA | Water | 3010A | |
| 310-217564-1 MSD | MW-301 | Total/NA | Water | 3010A | |

QC Association Summary

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-217564-1

Metals (Continued)

Prep Batch: 331965 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------|------------|
| 310-217564-11 DU | MW-308 | Total/NA | Water | 3010A | |

Filtration Batch: 332333

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------------|--------------------|-----------|--------|------------|------------|
| 310-217564-14 | MW-310A | Dissolved | Water | Filtration | |
| MB 310-332333/1-B | Method Blank | Dissolved | Water | Filtration | |
| LCS 310-332333/2-B ^10 | Lab Control Sample | Dissolved | Water | Filtration | |

Prep Batch: 332514

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------------|--------------------|-----------|--------|--------|------------|
| 310-217564-14 | MW-310A | Dissolved | Water | 3005A | 332333 |
| MB 310-332333/1-B | Method Blank | Dissolved | Water | 3005A | 332333 |
| LCS 310-332333/2-B ^10 | Lab Control Sample | Dissolved | Water | 3005A | 332333 |

Analysis Batch: 332936

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------|-----------|--------|--------|------------|
| 310-217564-14 | MW-310A | Dissolved | Water | 6020A | 332514 |
| MB 310-332333/1-B | Method Blank | Dissolved | Water | 6020A | 332514 |

Analysis Batch: 333015

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------------|--------------------|-----------|--------|--------|------------|
| LCS 310-332333/2-B ^10 | Lab Control Sample | Dissolved | Water | 6020A | 332514 |

Analysis Batch: 333095

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------|-----------|--------|--------|------------|
| 310-217564-14 | MW-310A | Dissolved | Water | 6020A | 332514 |
| MB 310-332333/1-B | Method Blank | Dissolved | Water | 6020A | 332514 |

Analysis Batch: 333580

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 310-217564-1 | MW-301 | Dissolved | Water | 6020A | 331964 |
| 310-217564-1 | MW-301 | Dissolved | Water | 6020A | 331964 |
| 310-217564-1 | MW-301 | Total/NA | Water | 6020A | 331965 |
| 310-217564-1 | MW-301 | Total/NA | Water | 6020A | 331965 |
| 310-217564-2 | MW-302 | Dissolved | Water | 6020A | 331964 |
| 310-217564-2 | MW-302 | Total/NA | Water | 6020A | 331965 |
| 310-217564-3 | MW-302A | Dissolved | Water | 6020A | 331964 |
| 310-217564-3 | MW-302A | Total/NA | Water | 6020A | 331965 |
| 310-217564-4 | MW-303 | Dissolved | Water | 6020A | 331964 |
| 310-217564-4 | MW-303 | Total/NA | Water | 6020A | 331965 |
| 310-217564-5 | MW-304 | Dissolved | Water | 6020A | 331964 |
| 310-217564-5 | MW-304 | Total/NA | Water | 6020A | 331965 |
| 310-217564-6 | MW-305 | Dissolved | Water | 6020A | 331964 |
| 310-217564-6 | MW-305 | Total/NA | Water | 6020A | 331965 |
| 310-217564-7 | MW-306 | Dissolved | Water | 6020A | 331964 |
| 310-217564-7 | MW-306 | Total/NA | Water | 6020A | 331965 |
| 310-217564-8 | MW-307 | Dissolved | Water | 6020A | 331964 |
| 310-217564-8 | MW-307 | Total/NA | Water | 6020A | 331965 |
| 310-217564-9 | MW-307A | Dissolved | Water | 6020A | 331964 |
| 310-217564-9 | MW-307A | Total/NA | Water | 6020A | 331965 |
| 310-217564-10 | MW-307B | Dissolved | Water | 6020A | 331964 |

QC Association Summary

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-217564-1

Metals (Continued)

Analysis Batch: 333580 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 310-217564-10 | MW-307B | Total/NA | Water | 6020A | 331965 |
| 310-217564-11 | MW-308 | Dissolved | Water | 6020A | 331964 |
| 310-217564-11 | MW-308 | Total/NA | Water | 6020A | 331965 |
| 310-217564-12 | MW-309 | Dissolved | Water | 6020A | 331964 |
| 310-217564-12 | MW-309 | Total/NA | Water | 6020A | 331965 |
| 310-217564-13 | MW-310 | Dissolved | Water | 6020A | 331964 |
| 310-217564-13 | MW-310 | Total/NA | Water | 6020A | 331965 |
| 310-217564-14 | MW-310A | Total/NA | Water | 6020A | 331965 |
| 310-217564-15 | MW-311 | Dissolved | Water | 6020A | 331964 |
| 310-217564-15 | MW-311 | Dissolved | Water | 6020A | 331964 |
| 310-217564-15 | MW-311 | Total/NA | Water | 6020A | 331965 |
| 310-217564-15 | MW-311 | Total/NA | Water | 6020A | 331965 |
| 310-217564-16 | MW-312 | Dissolved | Water | 6020A | 331964 |
| 310-217564-16 | MW-312 | Dissolved | Water | 6020A | 331964 |
| 310-217564-16 | MW-312 | Total/NA | Water | 6020A | 331965 |
| 310-217564-16 | MW-312 | Total/NA | Water | 6020A | 331965 |
| 310-217564-17 | MW-313 | Dissolved | Water | 6020A | 331964 |
| 310-217564-17 | MW-313 | Dissolved | Water | 6020A | 331964 |
| 310-217564-17 | MW-313 | Total/NA | Water | 6020A | 331965 |
| 310-217564-17 | MW-313 | Total/NA | Water | 6020A | 331965 |
| 310-217564-18 | MW-313A | Dissolved | Water | 6020A | 331964 |
| 310-217564-18 | MW-313A | Total/NA | Water | 6020A | 331965 |
| 310-217564-19 | MW-313B | Dissolved | Water | 6020A | 331964 |
| 310-217564-19 | MW-313B | Total/NA | Water | 6020A | 331965 |
| 310-217564-20 | Field Blank | Dissolved | Water | 6020A | 331964 |
| 310-217564-20 | Field Blank | Total/NA | Water | 6020A | 331965 |
| MB 310-331964/1-A | Method Blank | Total/NA | Water | 6020A | 331964 |
| MB 310-331965/1-A | Method Blank | Total/NA | Water | 6020A | 331965 |
| LCS 310-331964/2-A | Lab Control Sample | Total/NA | Water | 6020A | 331964 |
| LCS 310-331965/2-A | Lab Control Sample | Total/NA | Water | 6020A | 331965 |
| 310-217564-1 MS | MW-301 | Dissolved | Water | 6020A | 331964 |
| 310-217564-1 MS | MW-301 | Dissolved | Water | 6020A | 331964 |
| 310-217564-1 MS | MW-301 | Total/NA | Water | 6020A | 331965 |
| 310-217564-1 MS | MW-301 | Total/NA | Water | 6020A | 331965 |
| 310-217564-1 MSD | MW-301 | Dissolved | Water | 6020A | 331964 |
| 310-217564-1 MSD | MW-301 | Dissolved | Water | 6020A | 331964 |
| 310-217564-1 MSD | MW-301 | Total/NA | Water | 6020A | 331965 |
| 310-217564-1 MSD | MW-301 | Total/NA | Water | 6020A | 331965 |
| 310-217564-11 DU | MW-308 | Dissolved | Water | 6020A | 331964 |
| 310-217564-11 DU | MW-308 | Total/NA | Water | 6020A | 331965 |

Analysis Batch: 333581

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 310-217564-1 | MW-301 | Dissolved | Water | 6020A | 331964 |
| 310-217564-2 | MW-302 | Dissolved | Water | 6020A | 331964 |
| 310-217564-3 | MW-302A | Dissolved | Water | 6020A | 331964 |
| 310-217564-4 | MW-303 | Dissolved | Water | 6020A | 331964 |
| 310-217564-5 | MW-304 | Dissolved | Water | 6020A | 331964 |
| 310-217564-6 | MW-305 | Dissolved | Water | 6020A | 331964 |
| 310-217564-7 | MW-306 | Dissolved | Water | 6020A | 331964 |
| 310-217564-8 | MW-307 | Dissolved | Water | 6020A | 331964 |

Eurofins TestAmerica, Cedar Falls

QC Association Summary

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-217564-1

Metals (Continued)

Analysis Batch: 333581 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 310-217564-9 | MW-307A | Dissolved | Water | 6020A | 331964 |
| 310-217564-10 | MW-307B | Dissolved | Water | 6020A | 331964 |
| 310-217564-11 | MW-308 | Dissolved | Water | 6020A | 331964 |
| 310-217564-12 | MW-309 | Dissolved | Water | 6020A | 331964 |
| 310-217564-13 | MW-310 | Dissolved | Water | 6020A | 331964 |
| 310-217564-15 | MW-311 | Dissolved | Water | 6020A | 331964 |
| 310-217564-16 | MW-312 | Dissolved | Water | 6020A | 331964 |
| 310-217564-17 | MW-313 | Dissolved | Water | 6020A | 331964 |
| 310-217564-18 | MW-313A | Dissolved | Water | 6020A | 331964 |
| 310-217564-19 | MW-313B | Dissolved | Water | 6020A | 331964 |
| 310-217564-20 | Field Blank | Dissolved | Water | 6020A | 331964 |
| MB 310-331964/1-A | Method Blank | Total/NA | Water | 6020A | 331964 |
| LCS 310-331964/2-A | Lab Control Sample | Total/NA | Water | 6020A | 331964 |
| 310-217564-1 MS | MW-301 | Dissolved | Water | 6020A | 331964 |
| 310-217564-1 MSD | MW-301 | Dissolved | Water | 6020A | 331964 |
| 310-217564-11 DU | MW-308 | Dissolved | Water | 6020A | 331964 |

General Chemistry

Analysis Batch: 332595

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|----------|------------|
| 310-217564-2 | MW-302 | Total/NA | Water | SM 2320B | |
| 310-217564-3 | MW-302A | Total/NA | Water | SM 2320B | |
| 310-217564-7 | MW-306 | Total/NA | Water | SM 2320B | |
| 310-217564-8 | MW-307 | Total/NA | Water | SM 2320B | |
| 310-217564-9 | MW-307A | Total/NA | Water | SM 2320B | |
| 310-217564-10 | MW-307B | Total/NA | Water | SM 2320B | |
| 310-217564-11 | MW-308 | Total/NA | Water | SM 2320B | |
| 310-217564-12 | MW-309 | Total/NA | Water | SM 2320B | |
| 310-217564-13 | MW-310 | Total/NA | Water | SM 2320B | |
| MB 310-332595/1 | Method Blank | Total/NA | Water | SM 2320B | |
| LCS 310-332595/2 | Lab Control Sample | Total/NA | Water | SM 2320B | |

Analysis Batch: 332632

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|----------|------------|
| 310-217564-14 | MW-310A | Total/NA | Water | SM 2320B | |
| 310-217564-15 | MW-311 | Total/NA | Water | SM 2320B | |
| 310-217564-16 | MW-312 | Total/NA | Water | SM 2320B | |
| 310-217564-17 | MW-313 | Total/NA | Water | SM 2320B | |
| MB 310-332632/1 | Method Blank | Total/NA | Water | SM 2320B | |
| LCS 310-332632/2 | Lab Control Sample | Total/NA | Water | SM 2320B | |

Analysis Batch: 332753

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-----------------|------------------|-----------|--------|----------|------------|
| 310-217564-1 | MW-301 | Total/NA | Water | SM 2320B | |
| 310-217564-4 | MW-303 | Total/NA | Water | SM 2320B | |
| 310-217564-5 | MW-304 | Total/NA | Water | SM 2320B | |
| 310-217564-6 | MW-305 | Total/NA | Water | SM 2320B | |
| 310-217564-18 | MW-313A | Total/NA | Water | SM 2320B | |
| 310-217564-19 | MW-313B | Total/NA | Water | SM 2320B | |
| MB 310-332753/1 | Method Blank | Total/NA | Water | SM 2320B | |

Eurofins TestAmerica, Cedar Falls

QC Association Summary

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-217564-1

General Chemistry (Continued)

Analysis Batch: 332753 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|----------|------------|
| LCS 310-332753/2 | Lab Control Sample | Total/NA | Water | SM 2320B | |

Analysis Batch: 333138

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 310-217564-20 | Field Blank | Total/NA | Water | 2320B | |
| MB 310-333138/1 | Method Blank | Total/NA | Water | 2320B | |
| LCS 310-333138/2 | Lab Control Sample | Total/NA | Water | 2320B | |

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Lab Chronicle

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-217564-1

Client Sample ID: MW-301

Lab Sample ID: 310-217564-1

Date Collected: 10/13/21 09:05

Matrix: Water

Date Received: 10/15/21 16:45

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Dissolved | Prep | 3010A | | | 331964 | 10/19/21 09:15 | CJT | TAL CF |
| Dissolved | Analysis | 6020A | | 1 | 333580 | 10/29/21 14:20 | SAP | TAL CF |
| Dissolved | Prep | 3010A | | | 331964 | 10/19/21 09:15 | CJT | TAL CF |
| Dissolved | Analysis | 6020A | | 1 | 333581 | 10/29/21 14:20 | SAP | TAL CF |
| Dissolved | Prep | 3010A | | | 331964 | 10/19/21 09:15 | CJT | TAL CF |
| Dissolved | Analysis | 6020A | | 10 | 333580 | 10/29/21 14:43 | SAP | TAL CF |
| Total/NA | Prep | 3010A | | | 331965 | 10/19/21 09:15 | CJT | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 333580 | 10/29/21 12:26 | SAP | TAL CF |
| Total/NA | Prep | 3010A | | | 331965 | 10/19/21 09:15 | CJT | TAL CF |
| Total/NA | Analysis | 6020A | | 10 | 333580 | 10/29/21 16:12 | SAP | TAL CF |
| Total/NA | Analysis | SM 2320B | | 1 | 332753 | 10/25/21 08:23 | WJF | TAL CF |

Client Sample ID: MW-302

Lab Sample ID: 310-217564-2

Date Collected: 10/12/21 14:40

Matrix: Water

Date Received: 10/15/21 16:45

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Dissolved | Prep | 3010A | | | 331964 | 10/19/21 09:15 | CJT | TAL CF |
| Dissolved | Analysis | 6020A | | 1 | 333580 | 10/29/21 14:51 | SAP | TAL CF |
| Dissolved | Prep | 3010A | | | 331964 | 10/19/21 09:15 | CJT | TAL CF |
| Dissolved | Analysis | 6020A | | 1 | 333581 | 10/29/21 14:51 | SAP | TAL CF |
| Total/NA | Prep | 3010A | | | 331965 | 10/19/21 09:15 | CJT | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 333580 | 10/29/21 12:36 | SAP | TAL CF |
| Total/NA | Analysis | SM 2320B | | 1 | 332595 | 10/22/21 08:43 | WJF | TAL CF |

Client Sample ID: MW-302A

Lab Sample ID: 310-217564-3

Date Collected: 10/12/21 15:40

Matrix: Water

Date Received: 10/15/21 16:45

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Dissolved | Prep | 3010A | | | 331964 | 10/19/21 09:15 | CJT | TAL CF |
| Dissolved | Analysis | 6020A | | 1 | 333580 | 10/29/21 14:54 | SAP | TAL CF |
| Dissolved | Prep | 3010A | | | 331964 | 10/19/21 09:15 | CJT | TAL CF |
| Dissolved | Analysis | 6020A | | 1 | 333581 | 10/29/21 14:54 | SAP | TAL CF |
| Total/NA | Prep | 3010A | | | 331965 | 10/19/21 09:15 | CJT | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 333580 | 10/29/21 12:49 | SAP | TAL CF |
| Total/NA | Analysis | SM 2320B | | 1 | 332595 | 10/22/21 08:43 | WJF | TAL CF |

Client Sample ID: MW-303

Lab Sample ID: 310-217564-4

Date Collected: 10/13/21 10:05

Matrix: Water

Date Received: 10/15/21 16:45

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Dissolved | Prep | 3010A | | | 331964 | 10/19/21 09:15 | CJT | TAL CF |
| Dissolved | Analysis | 6020A | | 1 | 333580 | 10/29/21 14:56 | SAP | TAL CF |

Lab Chronicle

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-217564-1

Client Sample ID: MW-303

Date Collected: 10/13/21 10:05

Date Received: 10/15/21 16:45

Lab Sample ID: 310-217564-4

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Dissolved | Prep | 3010A | | | 331964 | 10/19/21 09:15 | CJT | TAL CF |
| Dissolved | Analysis | 6020A | | 1 | 333581 | 10/29/21 14:56 | SAP | TAL CF |
| Total/NA | Prep | 3010A | | | 331965 | 10/19/21 09:15 | CJT | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 333580 | 10/29/21 12:52 | SAP | TAL CF |
| Total/NA | Analysis | SM 2320B | | 1 | 332753 | 10/25/21 08:23 | WJF | TAL CF |

Client Sample ID: MW-304

Date Collected: 10/13/21 11:50

Date Received: 10/15/21 16:45

Lab Sample ID: 310-217564-5

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Dissolved | Prep | 3010A | | | 331964 | 10/19/21 09:15 | CJT | TAL CF |
| Dissolved | Analysis | 6020A | | 1 | 333580 | 10/29/21 14:59 | SAP | TAL CF |
| Dissolved | Prep | 3010A | | | 331964 | 10/19/21 09:15 | CJT | TAL CF |
| Dissolved | Analysis | 6020A | | 1 | 333581 | 10/29/21 14:59 | SAP | TAL CF |
| Total/NA | Prep | 3010A | | | 331965 | 10/19/21 09:15 | CJT | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 333580 | 10/29/21 12:54 | SAP | TAL CF |
| Total/NA | Analysis | SM 2320B | | 1 | 332753 | 10/25/21 08:23 | WJF | TAL CF |

Client Sample ID: MW-305

Date Collected: 10/14/21 12:30

Date Received: 10/15/21 16:45

Lab Sample ID: 310-217564-6

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Dissolved | Prep | 3010A | | | 331964 | 10/19/21 09:15 | CJT | TAL CF |
| Dissolved | Analysis | 6020A | | 1 | 333580 | 10/29/21 15:01 | SAP | TAL CF |
| Dissolved | Prep | 3010A | | | 331964 | 10/19/21 09:15 | CJT | TAL CF |
| Dissolved | Analysis | 6020A | | 1 | 333581 | 10/29/21 15:01 | SAP | TAL CF |
| Total/NA | Prep | 3010A | | | 331965 | 10/19/21 09:15 | CJT | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 333580 | 10/29/21 12:57 | SAP | TAL CF |
| Total/NA | Analysis | SM 2320B | | 1 | 332753 | 10/25/21 08:23 | WJF | TAL CF |

Client Sample ID: MW-306

Date Collected: 10/11/21 14:00

Date Received: 10/15/21 16:45

Lab Sample ID: 310-217564-7

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Dissolved | Prep | 3010A | | | 331964 | 10/19/21 09:15 | CJT | TAL CF |
| Dissolved | Analysis | 6020A | | 1 | 333580 | 10/29/21 15:04 | SAP | TAL CF |
| Dissolved | Prep | 3010A | | | 331964 | 10/19/21 09:15 | CJT | TAL CF |
| Dissolved | Analysis | 6020A | | 1 | 333581 | 10/29/21 15:04 | SAP | TAL CF |
| Total/NA | Prep | 3010A | | | 331965 | 10/19/21 09:15 | CJT | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 333580 | 10/29/21 12:59 | SAP | TAL CF |
| Total/NA | Analysis | SM 2320B | | 1 | 332595 | 10/22/21 08:43 | WJF | TAL CF |

Lab Chronicle

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-217564-1

Client Sample ID: MW-307

Date Collected: 10/11/21 15:35

Date Received: 10/15/21 16:45

Lab Sample ID: 310-217564-8

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Dissolved | Prep | 3010A | | | 331964 | 10/19/21 09:15 | CJT | TAL CF |
| Dissolved | Analysis | 6020A | | 1 | 333580 | 10/29/21 15:06 | SAP | TAL CF |
| Dissolved | Prep | 3010A | | | 331964 | 10/19/21 09:15 | CJT | TAL CF |
| Dissolved | Analysis | 6020A | | 1 | 333581 | 10/29/21 15:06 | SAP | TAL CF |
| Total/NA | Prep | 3010A | | | 331965 | 10/19/21 09:15 | CJT | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 333580 | 10/29/21 13:02 | SAP | TAL CF |
| Total/NA | Analysis | SM 2320B | | 1 | 332595 | 10/22/21 08:43 | WJF | TAL CF |

Client Sample ID: MW-307A

Date Collected: 10/11/21 17:50

Date Received: 10/15/21 16:45

Lab Sample ID: 310-217564-9

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Dissolved | Prep | 3010A | | | 331964 | 10/19/21 09:15 | CJT | TAL CF |
| Dissolved | Analysis | 6020A | | 1 | 333580 | 10/29/21 15:19 | SAP | TAL CF |
| Dissolved | Prep | 3010A | | | 331964 | 10/19/21 09:15 | CJT | TAL CF |
| Dissolved | Analysis | 6020A | | 1 | 333581 | 10/29/21 15:19 | SAP | TAL CF |
| Total/NA | Prep | 3010A | | | 331965 | 10/19/21 09:15 | CJT | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 333580 | 10/29/21 13:05 | SAP | TAL CF |
| Total/NA | Analysis | SM 2320B | | 1 | 332595 | 10/22/21 08:43 | WJF | TAL CF |

Client Sample ID: MW-307B

Date Collected: 10/11/21 17:00

Date Received: 10/15/21 16:45

Lab Sample ID: 310-217564-10

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Dissolved | Prep | 3010A | | | 331964 | 10/19/21 09:15 | CJT | TAL CF |
| Dissolved | Analysis | 6020A | | 1 | 333580 | 10/29/21 15:22 | SAP | TAL CF |
| Dissolved | Prep | 3010A | | | 331964 | 10/19/21 09:15 | CJT | TAL CF |
| Dissolved | Analysis | 6020A | | 1 | 333581 | 10/29/21 15:22 | SAP | TAL CF |
| Total/NA | Prep | 3010A | | | 331965 | 10/19/21 09:15 | CJT | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 333580 | 10/29/21 13:07 | SAP | TAL CF |
| Total/NA | Analysis | SM 2320B | | 1 | 332595 | 10/22/21 08:43 | WJF | TAL CF |

Client Sample ID: MW-308

Date Collected: 10/12/21 13:36

Date Received: 10/15/21 16:45

Lab Sample ID: 310-217564-11

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Dissolved | Prep | 3010A | | | 331964 | 10/19/21 09:15 | CJT | TAL CF |
| Dissolved | Analysis | 6020A | | 1 | 333580 | 10/29/21 15:25 | SAP | TAL CF |
| Dissolved | Prep | 3010A | | | 331964 | 10/19/21 09:15 | CJT | TAL CF |
| Dissolved | Analysis | 6020A | | 1 | 333581 | 10/29/21 15:25 | SAP | TAL CF |
| Total/NA | Prep | 3010A | | | 331965 | 10/19/21 09:15 | CJT | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 333580 | 10/29/21 13:10 | SAP | TAL CF |

Eurofins TestAmerica, Cedar Falls

Lab Chronicle

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-217564-1

Client Sample ID: MW-308

Date Collected: 10/12/21 13:36

Date Received: 10/15/21 16:45

Lab Sample ID: 310-217564-11

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Analysis | SM 2320B | | 1 | 332595 | 10/22/21 08:43 | WJF | TAL CF |

Client Sample ID: MW-309

Date Collected: 10/12/21 12:20

Date Received: 10/15/21 16:45

Lab Sample ID: 310-217564-12

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Dissolved | Prep | 3010A | | | 331964 | 10/19/21 09:15 | CJT | TAL CF |
| Dissolved | Analysis | 6020A | | 1 | 333580 | 10/29/21 15:30 | SAP | TAL CF |
| Dissolved | Prep | 3010A | | | 331964 | 10/19/21 09:15 | CJT | TAL CF |
| Dissolved | Analysis | 6020A | | 1 | 333581 | 10/29/21 15:30 | SAP | TAL CF |
| Total/NA | Prep | 3010A | | | 331965 | 10/19/21 09:15 | CJT | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 333580 | 10/29/21 13:25 | SAP | TAL CF |
| Total/NA | Analysis | SM 2320B | | 1 | 332595 | 10/22/21 08:43 | WJF | TAL CF |

Client Sample ID: MW-310

Date Collected: 10/12/21 09:15

Date Received: 10/15/21 16:45

Lab Sample ID: 310-217564-13

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Dissolved | Prep | 3010A | | | 331964 | 10/19/21 09:15 | CJT | TAL CF |
| Dissolved | Analysis | 6020A | | 1 | 333580 | 10/29/21 15:32 | SAP | TAL CF |
| Dissolved | Prep | 3010A | | | 331964 | 10/19/21 09:15 | CJT | TAL CF |
| Dissolved | Analysis | 6020A | | 1 | 333581 | 10/29/21 15:32 | SAP | TAL CF |
| Total/NA | Prep | 3010A | | | 331965 | 10/19/21 09:15 | CJT | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 333580 | 10/29/21 13:28 | SAP | TAL CF |
| Total/NA | Analysis | SM 2320B | | 1 | 332595 | 10/22/21 08:43 | WJF | TAL CF |

Client Sample ID: MW-310A

Date Collected: 10/14/21 09:30

Date Received: 10/15/21 16:45

Lab Sample ID: 310-217564-14

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Dissolved | Filtration | Filtration | | | 332333 | 10/20/21 16:40 | ACM2 | TAL CF |
| Dissolved | Prep | 3005A | | | 332514 | 10/22/21 09:00 | ACM2 | TAL CF |
| Dissolved | Analysis | 6020A | | 1 | 332936 | 10/25/21 18:29 | SAP | TAL CF |
| Dissolved | Filtration | Filtration | | | 332333 | 10/20/21 16:40 | ACM2 | TAL CF |
| Dissolved | Prep | 3005A | | | 332514 | 10/22/21 09:00 | ACM2 | TAL CF |
| Dissolved | Analysis | 6020A | | 1 | 333095 | 10/26/21 19:51 | SAP | TAL CF |
| Total/NA | Prep | 3010A | | | 331965 | 10/19/21 09:15 | CJT | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 333580 | 10/29/21 13:30 | SAP | TAL CF |
| Total/NA | Analysis | SM 2320B | | 1 | 332632 | 10/22/21 11:41 | WJF | TAL CF |

Lab Chronicle

Client: SCS Engineers
 Project/Site: Burlington Gen Station 25221066

Job ID: 310-217564-1

Client Sample ID: MW-311

Lab Sample ID: 310-217564-15

Date Collected: 10/12/21 11:00

Matrix: Water

Date Received: 10/15/21 16:45

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Dissolved | Prep | 3010A | | | 331964 | 10/19/21 09:15 | CJT | TAL CF |
| Dissolved | Analysis | 6020A | | 1 | 333580 | 10/29/21 15:35 | SAP | TAL CF |
| Dissolved | Prep | 3010A | | | 331964 | 10/19/21 09:15 | CJT | TAL CF |
| Dissolved | Analysis | 6020A | | 1 | 333581 | 10/29/21 15:35 | SAP | TAL CF |
| Dissolved | Prep | 3010A | | | 331964 | 10/19/21 09:15 | CJT | TAL CF |
| Dissolved | Analysis | 6020A | | 4 | 333580 | 10/29/21 16:01 | SAP | TAL CF |
| Total/NA | Prep | 3010A | | | 331965 | 10/19/21 09:15 | CJT | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 333580 | 10/29/21 13:33 | SAP | TAL CF |
| Total/NA | Prep | 3010A | | | 331965 | 10/19/21 09:15 | CJT | TAL CF |
| Total/NA | Analysis | 6020A | | 4 | 333580 | 10/29/21 13:49 | SAP | TAL CF |
| Total/NA | Analysis | SM 2320B | | 1 | 332632 | 10/22/21 11:41 | WJF | TAL CF |

Client Sample ID: MW-312

Lab Sample ID: 310-217564-16

Date Collected: 10/14/21 11:10

Matrix: Water

Date Received: 10/15/21 16:45

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Dissolved | Prep | 3010A | | | 331964 | 10/19/21 09:15 | CJT | TAL CF |
| Dissolved | Analysis | 6020A | | 1 | 333580 | 10/29/21 15:38 | SAP | TAL CF |
| Dissolved | Prep | 3010A | | | 331964 | 10/19/21 09:15 | CJT | TAL CF |
| Dissolved | Analysis | 6020A | | 1 | 333581 | 10/29/21 15:38 | SAP | TAL CF |
| Dissolved | Prep | 3010A | | | 331964 | 10/19/21 09:15 | CJT | TAL CF |
| Dissolved | Analysis | 6020A | | 4 | 333580 | 10/29/21 16:04 | SAP | TAL CF |
| Total/NA | Prep | 3010A | | | 331965 | 10/19/21 09:15 | CJT | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 333580 | 10/29/21 13:36 | SAP | TAL CF |
| Total/NA | Prep | 3010A | | | 331965 | 10/19/21 09:15 | CJT | TAL CF |
| Total/NA | Analysis | 6020A | | 4 | 333580 | 10/29/21 14:02 | SAP | TAL CF |
| Total/NA | Analysis | SM 2320B | | 1 | 332632 | 10/22/21 11:41 | WJF | TAL CF |

Client Sample ID: MW-313

Lab Sample ID: 310-217564-17

Date Collected: 10/13/21 13:00

Matrix: Water

Date Received: 10/15/21 16:45

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Dissolved | Prep | 3010A | | | 331964 | 10/19/21 09:15 | CJT | TAL CF |
| Dissolved | Analysis | 6020A | | 1 | 333580 | 10/29/21 15:40 | SAP | TAL CF |
| Dissolved | Prep | 3010A | | | 331964 | 10/19/21 09:15 | CJT | TAL CF |
| Dissolved | Analysis | 6020A | | 1 | 333581 | 10/29/21 15:40 | SAP | TAL CF |
| Dissolved | Prep | 3010A | | | 331964 | 10/19/21 09:15 | CJT | TAL CF |
| Dissolved | Analysis | 6020A | | 4 | 333580 | 10/29/21 16:06 | SAP | TAL CF |
| Total/NA | Prep | 3010A | | | 331965 | 10/19/21 09:15 | CJT | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 333580 | 10/29/21 13:38 | SAP | TAL CF |
| Total/NA | Prep | 3010A | | | 331965 | 10/19/21 09:15 | CJT | TAL CF |
| Total/NA | Analysis | 6020A | | 4 | 333580 | 10/29/21 14:04 | SAP | TAL CF |
| Total/NA | Analysis | SM 2320B | | 1 | 332632 | 10/22/21 11:41 | WJF | TAL CF |

Eurofins TestAmerica, Cedar Falls

Lab Chronicle

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-217564-1

Client Sample ID: MW-313A

Lab Sample ID: 310-217564-18

Date Collected: 10/13/21 14:00

Matrix: Water

Date Received: 10/15/21 16:45

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Dissolved | Prep | 3010A | | | 331964 | 10/19/21 09:15 | CJT | TAL CF |
| Dissolved | Analysis | 6020A | | 1 | 333580 | 10/29/21 15:43 | SAP | TAL CF |
| Dissolved | Prep | 3010A | | | 331964 | 10/19/21 09:15 | CJT | TAL CF |
| Dissolved | Analysis | 6020A | | 1 | 333581 | 10/29/21 15:43 | SAP | TAL CF |
| Total/NA | Prep | 3010A | | | 331965 | 10/19/21 09:15 | CJT | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 333580 | 10/29/21 13:41 | SAP | TAL CF |
| Total/NA | Analysis | SM 2320B | | 1 | 332753 | 10/25/21 08:23 | WJF | TAL CF |

Client Sample ID: MW-313B

Lab Sample ID: 310-217564-19

Date Collected: 10/13/21 15:25

Matrix: Water

Date Received: 10/15/21 16:45

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Dissolved | Prep | 3010A | | | 331964 | 10/19/21 09:15 | CJT | TAL CF |
| Dissolved | Analysis | 6020A | | 1 | 333580 | 10/29/21 15:56 | SAP | TAL CF |
| Dissolved | Prep | 3010A | | | 331964 | 10/19/21 09:15 | CJT | TAL CF |
| Dissolved | Analysis | 6020A | | 1 | 333581 | 10/29/21 15:56 | SAP | TAL CF |
| Total/NA | Prep | 3010A | | | 331965 | 10/19/21 09:15 | CJT | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 333580 | 10/29/21 13:43 | SAP | TAL CF |
| Total/NA | Analysis | SM 2320B | | 1 | 332753 | 10/25/21 08:23 | WJF | TAL CF |

Client Sample ID: Field Blank

Lab Sample ID: 310-217564-20

Date Collected: 10/14/21 14:20

Matrix: Water

Date Received: 10/15/21 16:45

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Dissolved | Prep | 3010A | | | 331964 | 10/19/21 09:15 | CJT | TAL CF |
| Dissolved | Analysis | 6020A | | 1 | 333580 | 10/29/21 15:58 | SAP | TAL CF |
| Dissolved | Prep | 3010A | | | 331964 | 10/19/21 09:15 | CJT | TAL CF |
| Dissolved | Analysis | 6020A | | 1 | 333581 | 10/29/21 15:58 | SAP | TAL CF |
| Total/NA | Prep | 3010A | | | 331965 | 10/19/21 09:15 | CJT | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 333580 | 10/29/21 13:46 | SAP | TAL CF |
| Total/NA | Analysis | 2320B | | 1 | 333138 | 10/27/21 11:44 | LBB | TAL CF |

Laboratory References:

TAL CF = Eurofins TestAmerica, Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

Accreditation/Certification Summary

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-217564-1

Laboratory: Eurofins TestAmerica, Cedar Falls

The accreditations/certifications listed below are applicable to this report.

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| Iowa | State | 007 | 12-01-21 |

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

Client: SCS Engineers
Project/Site: Burlington Gen Station 25221066

Job ID: 310-217564-1

| Method | Method Description | Protocol | Laboratory |
|------------|---------------------------|----------|------------|
| 6020A | Metals (ICP/MS) | SW846 | TAL CF |
| 2320B | Alkalinity (Low Level) | SM | TAL CF |
| SM 2320B | Alkalinity | SM | TAL CF |
| 3005A | Preparation, Total Metals | SW846 | TAL CF |
| 3010A | Preparation, Total Metals | SW846 | TAL CF |
| Filtration | Sample Filtration | None | TAL CF |

Protocol References:

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CF = Eurofins TestAmerica, Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401



Environment Testing
TestAmerica



310-217564 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

| | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Client Information | | |
| Client: <u>SLS</u> | | |
| City/State: <small>CITY</small> <u>Clive</u> <small>STATE</small> <u>IA</u> | Project: <u>Burlington</u> | |
| Receipt Information | | |
| Date/Time Received: <small>DATE</small> <u>10-15-21</u> <small>TIME</small> <u>1645</u> | Received By: <u>PK</u> | |
| Delivery Type: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input checked="" type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____ | | |
| Condition of Cooler/Containers | | |
| Sample(s) received in Cooler? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If yes: Cooler ID: _____ |
| Multiple Coolers? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If yes: Cooler # <u>1</u> of <u>3</u> |
| Cooler Custody Seals Present? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If yes: Cooler custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Sample Custody Seals Present? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Trip Blank Present? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If yes: Which VOA samples are in cooler? ↓ |
| Temperature Record | | |
| Coolant: | <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE | |
| Thermometer ID: <u>N</u> | Correction Factor (°C): <u>0</u> | |
| • Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature | | |
| Uncorrected Temp (°C): <u>2.5 -</u> | Corrected Temp (°C): <u>-</u> | |
| • Sample Container Temperature | | |
| Container(s) used: | <u>CONTAINER 1</u> <u>PI 250</u> | <u>CONTAINER 2</u> |
| Uncorrected Temp (°C): | <u>2.5</u> | |
| Corrected Temp (°C): | <u>2.2</u> | |
| Exceptions Noted | | |
| 1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| 2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid)? <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| NOTE: If yes, contact PM before proceeding. If no, proceed with login | | |
| Additional Comments | | |
| | | |
| | | |
| | | |



Environment Testing
TestAmerica

Place COC scanning label
here

Cooler/Sample Receipt and Temperature Log Form

| Client Information | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|----------------------------|
| Client: <u>SIS</u> | | | |
| City/State: | CITY <u>Clive</u> | STATE <u>IA</u> | Project: <u>Burlington</u> |
| Receipt Information | | | |
| Date/Time Received: | DATE <u>10-15-21</u> | TIME <u>1845</u> | Received By: <u>PK</u> |
| Delivery Type: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input checked="" type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____ | | | |
| Condition of Cooler/Containers | | | |
| Sample(s) received in Cooler? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If yes: Cooler ID: | |
| Multiple Coolers? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If yes: Cooler # <u>2</u> of <u>3</u> | |
| Cooler Custody Seals Present? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If yes: Cooler custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No | |
| Sample Custody Seals Present? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No | |
| Trip Blank Present? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If yes: Which VOA samples are in cooler? ↓ | |
| | | | |
| | | | |
| Temperature Record | | | |
| Coolant: | <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE | | |
| Thermometer ID: | <u>N</u> | Correction Factor (°C): | <u>0</u> |
| • Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature | | | |
| Uncorrected Temp (°C): | <u>-0.3</u> | Corrected Temp (°C): | <u>-0.3</u> |
| • Sample Container Temperature | | | |
| Container(s) used: | <u>CONTAINER 1</u> | <u>CONTAINER 2</u> | |
| Uncorrected Temp (°C): | | | |
| Corrected Temp (°C): | | | |
| Exceptions Noted | | | |
| 1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No | | | |
| a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No | | | |
| 2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No | | | |
| NOTE: If yes, contact PM before proceeding. If no, proceed with login | | | |
| Additional Comments | | | |
| <u>* Received Plastic 250mL Nitric empty for MW-310A</u> | | | |
| | | | |
| | | | |



Environment Testing
TestAmerica

Place COC scanning label
here

Cooler/Sample Receipt and Temperature Log Form

| | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|----------------------------|
| Client Information | | | |
| Client: <u>SCS</u> | | | |
| City/State: | CITY <u>Clive</u> | STATE <u>IA</u> | Project: <u>Burlington</u> |
| Receipt Information | | | |
| Date/Time Received: | DATE <u>10-15-21</u> | TIME <u>1645</u> | Received By: <u>PK</u> |
| Delivery Type: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input checked="" type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____ | | | |
| Condition of Cooler/Containers | | | |
| Sample(s) received in Cooler? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If yes: Cooler ID: _____ | |
| Multiple Coolers? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If yes: Cooler # <u>3</u> of <u>3</u> | |
| Cooler Custody Seals Present? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If yes: Cooler custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No | |
| Sample Custody Seals Present? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No | |
| Trip Blank Present? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If yes: Which VOA samples are in cooler? ↓ | |
| Temperature Record | | | |
| Coolant: | <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ | <input type="checkbox"/> NONE | |
| Thermometer ID: | <u>N</u> | Correction Factor (°C): <u>0</u> | |
| • Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature | | | |
| Uncorrected Temp (°C): | <u>0.8</u> | Corrected Temp (°C): <u>0.8</u> | |
| • Sample Container Temperature | | | |
| Container(s) used: | <u>CONTAINER 1</u> | <u>CONTAINER 2</u> | |
| Uncorrected Temp (°C): | | | |
| Corrected Temp (°C): | | | |
| Exceptions Noted | | | |
| 1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No | | | |
| a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No | | | |
| 2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No | | | |
| NOTE: If yes, contact PM before proceeding. If no, proceed with login | | | |
| Additional Comments | | | |
| | | | |
| | | | |
| | | | |

| | | | | |
|--------------------------------------------------|--|-----------------------------------------------------------------------------------------|------------------------------------------|---------------------------------------------|
| Client Information | | Sampler Rosa Cruz | Lab PM Fredrick Sandie | Carrier Tracking No(s) 310-64660-17537-1 |
| Client Contact Rosa Cruz | | Phone 608-509 | E-Mail sandra.fredrick@eurofinset.com | State of Origin |
| Company SCS Engineers | | PWSID: | | |
| Address 8450 Hickman Road, Suite 27 | | Due Date Requested: | | |
| City Clive | | TAT Requested (days): | | |
| State, Zip IA, 50325 | | Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | |
| Phone 25221066 | | PO # 25221066 | | |
| Email rcruz@scsengineers.com | | WO # | | |
| Project Name Burlington Glen Station 25221066 | | Project # 31011020 | | |
| Site SSDWA | | Site | | |

| Sample Identification | Sample Date | Sample Time | Sample Type (C=Comp, G=grab) | Matrix (W=water, S=solid, D=dross, etc.) | Field Filtered Sample (Yes or No) | | Perform MS/MSD (Yes or No) | | 6020A - D, Metals (4) | | 6020A - Metals (5) | | 6020A - Alkalinity | | Special Instructions/Note: |
|-----------------------|-------------|-------------|---------------------------------|---------------------------------------------|-----------------------------------|---|----------------------------|---|-----------------------|---|--------------------|---|--------------------|---|----------------------------|
| | | | | | Y | N | Y | N | Y | N | Y | N | Y | N | |
| MW-301 | 10-13-21 | 9:05 | G | Water | X | X | X | X | X | X | X | X | X | X | Diss metals |
| MW-302 | 10-12-21 | 14:40 | G | Water | X | X | X | X | X | X | X | X | X | X | bottle is field |
| MW-302A | 10-12-21 | 15:40 | G | Water | X | X | X | X | X | X | X | X | X | X | Filtered |
| MW-303 | 10-13-21 | 10:05 | G | Water | X | X | X | X | X | X | X | X | X | X | |
| MW-304 | 10-13-21 | 11:50 | G | Water | X | X | X | X | X | X | X | X | X | X | |
| MW-305 | 10-14-21 | 12:30 | G | Water | X | X | X | X | X | X | X | X | X | X | |
| MW-306 | 10-11-21 | 14:00 | G | Water | X | X | X | X | X | X | X | X | X | X | |
| MW-307 | 10-11-21 | 15:35 | G | Water | X | X | X | X | X | X | X | X | X | X | Sample time: 15:35 |
| MW-307A | 10-11-21 | 17:50 | G | Water | X | X | X | X | X | X | X | X | X | X | |
| MW-307B | 10-11-21 | 17:00 | G | Water | X | X | X | X | X | X | X | X | X | X | |
| MW-308 | 10-12-21 | 13:36 | G | Water | X | X | X | X | X | X | X | X | X | X | |

| | | | |
|-------------------------------------------------------------------------------------------|------------------------------------|----------------------------------------|---------------------------------------|
| Possible Hazard Identification | | Date: | |
| <input type="checkbox"/> Non-Hazard | <input type="checkbox"/> Flammable | <input type="checkbox"/> Skin Irritant | <input type="checkbox"/> Radiological |
| Deliverable Requested: I, II, III, IV, Other (specify) | | <input type="checkbox"/> Poison B | <input type="checkbox"/> Unknown |
| Empty Kit Relinquished by | | Time: | |
| Relinquished by Rosa Cruz | | Date/Time 10-15-21 13:30 | Company SCS |
| Relinquished by | | Date/Time | Company |
| Relinquished by | | Date/Time | Company |
| Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | Custody Seal No.: | |

| | | | |
|-------------------------------------------------------------------------------------|------------------------------------------|--------------------|--|
| Special Instructions/QC Requirements: | | Method of Shipment | |
| Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) | | Date/Time | |
| <input type="checkbox"/> Return To Client | <input type="checkbox"/> Disposal By Lab | Date/Time | |
| Special Instructions/QC Requirements: | | Date/Time | |
| Archive For | | Date/Time | |
| Months | | Date/Time | |
| Company | | Date/Time | |
| Company | | Date/Time | |
| Company | | Date/Time | |
| Cooler Temperature(s) °C and Other Remarks | | Date/Time | |



| | | | | | |
|-------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|--------------------------|-----------------------------|
| Client Information | | Sampler Phone 608-509-8245 | Lab. PV Fredrick Sandie | Carrier Tracking Note(s) | COC No 310-64660-17537.2 |
| Company SCS Engineers | | E-Mail sandra.fredrick@eurofinset.com | State of Origin | Page Page 2 of 2 | |
| Address 8450 Hickman Road Suite 27 | | Job #: | | | |
| City | | Preservation Codes: | | | |
| State, Zip IA, 50325 | | A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: | | | |
| Phone: | | M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify) | | | |
| Email rfcruz@scsengineers.com | | Total Number of containers | | | |
| Project Name Burlington Gen Station 25221066 | | Special Instructions/Note: | | | |
| Site SSOW# | | Diss Metals bottle is filtered | | | |

| Sample Identification | Sample Date | Sample Time | Sample Type (C=Comp, G=grab) | Matrix (W=water, S=solid, D=volatile, B=biological, A=Air) | Field Filtered Sample (Yes or No) | | | Perform MS/MSD (Yes or No) | | | Analysis Requested | | | Special Instructions/Note |
|-----------------------|-------------|-------------|---------------------------------|---------------------------------------------------------------|-----------------------------------|---|---|----------------------------|---|---|--------------------|---|---|---------------------------|
| | | | | | N | D | D | N | D | D | N | D | D | |
| MW-309 | 10-17-21 | 12:20 | G | Water | X | X | X | X | X | X | X | X | X | |
| MW-310 | 10-12-21 | 9:15 | G | Water | X | X | X | X | X | X | X | X | X | |
| MW-310A | 10-14-21 | 9:30 | G | Water | X | X | X | X | X | X | X | X | X | |
| MW-311 | 10-12-21 | 11:00 | G | Water | X | X | X | X | X | X | X | X | X | |
| MW-312 | 10-14-21 | 11:10 | G | Water | X | X | X | X | X | X | X | X | X | |
| MW-313 | 10-13-21 | 13:00 | G | Water | X | X | X | X | X | X | X | X | X | |
| MW-313A | 10-13-21 | 14:00 | G | Water | X | X | X | X | X | X | X | X | X | |
| MW-313B | 10-13-21 | 15:25 | G | Water | X | X | X | X | X | X | X | X | X | |
| Field Blank | 10-14-21 | 14:20 | G | Water | X | X | X | X | X | X | X | X | X | |
| | | | | Water | | | | | | | | | | |

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
 Deliverable Requested: I, II, III, IV, Other (specify)

Empty Kit Relinquished by
 Relinquished by: Rosa Cruz
 Relinquished by: [Signature]
 Relinquished by: [Signature]

Custody Seals Intact: Custody Seal No.:
 Δ Yes Δ No

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/QC Requirements:

| Time | Date | Method of Shipment |
|-----------------|----------------|--------------------|
| Relinquished by | 10-15-21 13:30 | Company SCS |
| Relinquished by | | Company |
| Relinquished by | | Company |
| Relinquished by | | Company |
| Relinquished by | | Company |

Received by: [Signature] Date/Time: 10-15-21 16:45
 Received by: [Signature] Date/Time: 10-15-21 16:45

Cooler Temperature(s) °C and Other Remarks:



Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-217564-1

Login Number: 217564


List Source: Eurofins TestAmerica, Cedar Falls

List Number: 1

Creator: Kizer, Preston V

| Question | Answer | Comment |
|-----------------------------------------------------------------------------------------------------|--------|---------|
| Radioactivity wasn't checked or is \leq background as measured by a survey meter. | N/A | |
| The cooler's custody seal, if present, is intact. | N/A | |
| Sample custody seals, if present, are intact. | N/A | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |





Appendix D
Historical Monitoring Records

Single Location
Name: IPL - Burlington

| Location ID: MW-302 | | Number of Sampling Dates: 20 | | | | | | | | | | | | | | | | | | | |
|---------------------------------|------------|------------------------------|----------|-----------|-----------|-----------|----------|-----------|-----------|------------|----------|-----------|-----------|-----------|----------|------------|--------------|------------|----------|-----------|------------|
| Parameter Name | Units | 4/20/2016 | 6/6/2016 | 8/16/2016 | 10/3/2016 | 1/10/2017 | 4/3/2017 | 6/12/2017 | 8/15/2017 | 10/17/2017 | 5/9/2018 | 8/13/2018 | 10/9/2018 | 3/12/2019 | 4/3/2019 | 10/10/2019 | 6/3/2020 | 10/16/2020 | 3/1/2021 | 4/19/2021 | 10/12/2021 |
| Boron | ug/L | 8570 | 8400 | 9050 | 9500 | 9590 | 10100 | 10700 | 9450 | 10000 | 10200 | 10000 | 10400 | -- | 12000 | 11000 | 13000 | 11000 | -- | 11000 | 10000 |
| Calcium | mg/L | 242 | 243 | 231 | 251 | 225 | 232 | 216 | 225 | 231 | 231 | 210 | 219 | -- | 220 | 220 | 210 | 200 | -- | 200 | 160 |
| Chloride | mg/L | 18.3 | 15.2 | 16.1 | 15.4 | 15.2 | 16.6 | 15 | 15.7 | 16.4 | 14.1 | 14.7 | 13.5 | -- | 13 | 11 | 12 | 10 | -- | 10 | 12 |
| Fluoride | mg/L | 0.11 | <0.073 | 0.08 | 0.086 | <0.027 | <0.1 | <0.1 | <0.1 | 0.11 | 0.11 | <0.063 | <0.19 | -- | 0.37 | <0.23 | <0.23 | <0.23 | -- | <0.28 | <0.28 |
| Field pH | Std. Units | 8.17 | 8.06 | 8.3 | 8.24 | 8.22 | 8.71 | 8.06 | 8.38 | 8.72 | 8.19 | 9.32 | 7.89 | 6.94 | 8.7 | 7.49 | 7.88 | 7.87 | 7.95 | 8.15 | 8.28 |
| Sulfate | mg/L | 666 | 525 | 669 | 579 | 536 | 540 | 552 | 512 | 541 | 553 | 542 | 658 | -- | 510 | 510 | 490 | 460 | -- | 410 | 280 |
| Total Dissolved Solids | mg/L | 1040 | 1140 | 988 | 977 | 969 | 945 | 937 | 989 | 951 | 1080 | 1000 | 1030 | -- | 1000 | 960 | 1000 | 910 | -- | 860 | 680 |
| Antimony | ug/L | 0.14 | 0.15 | <0.058 | 0.096 | <0.058 | 0.043 | 0.04 | 0.16 | -- | <0.026 | <0.15 | 0.082 | -- | <0.53 | <0.53 | <0.58 | <0.51 | -- | <1.1 | <1.1 |
| Arsenic | ug/L | 71.3 | 68.4 | 64.1 | 73.5 | 64.9 | 49.1 | 72 | 58.5 | -- | 56.2 | 49.6 | 76.4 | -- | 53 | 73 | 110 | 76 | -- | 75 | 100 |
| Barium | ug/L | 430 | 476 | 361 | 446 | 355 | 356 | 370 | 348 | -- | 363 | 340 | 180 | -- | 320 | 260 | 340 | 250 | -- | 320 | 270 |
| Beryllium | ug/L | <0.08 | <0.08 | <0.08 | <0.08 | <0.08 | 0.023 | <0.012 | 0.012 | -- | <0.012 | <0.12 | <0.089 | -- | <0.27 | <0.27 | <0.27 | <0.27 | -- | <0.27 | <0.27 |
| Cadmium | ug/L | 0.043 | <0.029 | <0.029 | <0.029 | <0.029 | <0.018 | 0.021 | <0.018 | -- | 0.037 | <0.07 | 0.04 | -- | <0.077 | <0.039 | 0.045 | 0.11 | -- | 0.089 | 0.12 |
| Chromium | ug/L | <0.34 | <0.34 | 0.45 | <0.34 | 0.46 | 0.15 | 0.11 | 0.31 | -- | 0.22 | 0.33 | 0.097 | -- | <0.98 | <0.98 | <1.1 | <1.1 | -- | <1.1 | <1.1 |
| Cobalt | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.19 | 0.24 | 0.24 | -- | 0.19 | 0.15 | 0.18 | -- | 0.19 | 0.23 | 0.21 | 0.26 | -- | 0.21 | 0.27 |
| Lead | ug/L | 0.21 | <0.19 | <0.19 | <0.19 | <0.19 | 0.058 | 0.064 | 0.22 | -- | 0.17 | <0.12 | <0.13 | -- | 0.58 | <0.27 | <0.27 | 0.17 | -- | <0.21 | <0.21 |
| Lithium | ug/L | 60.5 | 69.6 | 37.6 | 64.2 | 62.6 | 57.3 | 60.7 | 56.9 | -- | 65.4 | 61.4 | 57.8 | 59.9 | 56 | 57 | 55 | 64 | -- | 64 | 64 |
| Mercury | ug/L | <0.046 | <0.039 | <0.039 | <0.039 | <0.055 | <0.046 | <0.046 | <0.046 | -- | <0.09 | -- | <0.09 | -- | <0.1 | -- | <0.1 | <0.1 | -- | <0.15 | -- |
| Molybdenum | ug/L | 85.8 | 84.4 | 92.5 | 105 | 104 | 105 | 131 | 113 | -- | 118 | 121 | 122 | 123 | 100 | 100 | 140 | 130 | -- | 130 | 91 |
| Selenium | ug/L | 0.3 | 0.22 | 0.27 | 0.2 | <0.18 | 0.24 | 0.23 | 0.24 | -- | 0.25 | 0.22 | 0.23 | -- | <1 | <1 | <1 | 1.1 | -- | 1.4 | <0.96 |
| Thallium | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.04 | 0.078 | 0.41 | -- | <0.036 | -- | <0.099 | -- | <0.27 | -- | <0.26 | -- | -- | 1.2 | <0.26 |
| Total Radium | pCi/L | 1.82 | 1.11 | 0.202 | 1.24 | 1.59 | 1.13 | 1.84 | 1.2 | -- | 1.51 | 1.53 | 2.15 | -- | 0.872 | 0.644 | 0.626/0.626 | 0.245 | -- | 0.906 | 1.22 |
| Radium-226 | pCi/L | 0 | 0.392 | 0 | 0.803 | 0.604 | 0.639 | 0.713 | 0.238 | -- | 0.621 | 0.443 | 1.1 | -- | 0.362 | 0.374 | 0.263/0.263 | 0.245 | -- | 0.493 | 0.605 |
| Radium-228 | pCi/L | 1.82 | 0.715 | 0.202 | 0.439 | 0.987 | 0.494 | 1.13 | 0.962 | -- | 0.886 | 1.09 | 1.05 | -- | 0.51 | 0.27 | <0.394/0.363 | -0.113 | -- | 0.413 | 0.611 |
| Collected By | | -- | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | -- | -- | -- | 0 | -- | -- | -- | -- | -- | -- | -- |
| Field Oxidation Potential | mV | -181.1 | -147 | -167.1 | -194.3 | -182.6 | -227.8 | -154.4 | -179.2 | -49.7 | -217.2 | -237 | -198 | -70.3 | -215.8 | -186.8 | 36.7 | -237.1 | -236.9 | -225.8 | -193.7 |
| Field Specific Conductance | umhos/cm | 1032 | 2053 | 34.4 | 2202 | 2167 | 2037 | 833 | 1752 | 1165 | 1268 | 1226 | 1334 | 792 | 1164 | 1249 | 1245 | 1168 | 1101 | 1169 | 1043 |
| Field Temperature | deg C | 12.7 | 12.7 | 13.6 | 13.8 | 13.7 | 13.2 | 12.94 | 13.7 | 13.9 | 13 | 14.9 | 15.2 | 12.16 | 11.41 | 14.46 | 12.9 | 12.9 | 12.3 | 12 | 13.8 |
| Groundwater Elevation | feet | 521.91 | 521.21 | 521.35 | 527.54 | 525.5 | 522.84 | 522.84 | 519.39 | 522.2 | 525.81 | 519.87 | 528.08 | 522.83 | 528.21 | -- | 523.98 | 518.94 | 520.21 | 522.27 | 518.75 |
| Oxygen, Dissolved | mg/L | 0.1 | 0.8 | 9.35 | 0.39 | 0.21 | 0.12 | 0.13 | 0.18 | 0.09 | 1 | 0.15 | 0.3 | 2.68 | 0.58 | 0.28 | 0.18 | 0.08 | 0.11 | 0.07 | 0.18 |
| Turbidity | NTU | 10.65 | 2.56 | 0.19 | 1.36 | 0.47 | 1.99 | 0.59 | 0.25 | 2.04 | 2.25 | 3.75 | 6.48 | 22.1 | 18.8 | 1.16 | 25.27 | 0.07 | 2.7 | 4.07 | 31.2 |
| Collected Date | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 3 | -- | -- | -- | -- | -- | -- | -- |
| Collected Time | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1028 | -- | -- | -- | -- | -- | -- | -- |
| pH at 25 Degrees C | Std. Units | 7.8 | 7.8 | 7.6 | 7.8 | 7.9 | 8 | 7.6 | 7.8 | 8 | 7.9 | 8 | 7.7 | -- | 8.1 | 7.7 | 7.6 | 8.2 | -- | 8.2 | 7.9 |
| Bicarbonate Alkalinity as CaCO3 | mg/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 240 | 190 | 220 | 560 |
| Carbonate Alkalinity as CaCO3 | mg/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <3.8 | <4.2 | <4.6 | <4.6 |
| Iron, dissolved | ug/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 3200 | 2000 | 1600 | 2900 |
| Manganese, dissolved | ug/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1600 | 1300 | 1100 | 1700 |
| Molybdenum, dissolved | ug/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 120 | 130 | 120 | 110 |
| Total Alkalinity as CaCO3 | mg/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 240 | 190 | 220 | 560 |
| Iron, total | ug/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 2900 | 2400 | 2000 | 3600 |
| Magnesium, total | ug/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 18000 | 15000 | 15000 | 17000 |
| Manganese, total | ug/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1400 | 1300 | 1200 | 1700 |
| Potassium, total | ug/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 12000 | 13000 | 13000 | 12000 |
| Sodium, total | ug/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 24000 | 27000 | 30000 | 28000 |
| Lithium, dissolved | ug/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 64 | 66 | 59 | 63 |

Single Location

Name: IPL - Burlington

| Location ID: MW-302A | | | | | | |
|---------------------------------|------------|----------|------------|----------|-----------|------------|
| Number of Sampling Dates: 5 | | | | | | |
| Parameter Name | Units | 9/9/2020 | 10/16/2020 | 3/1/2021 | 4/19/2021 | 10/12/2021 |
| Boron | ug/L | 11000 | 11000 | -- | 9400 | 9000 |
| Calcium | mg/L | 120 | 130 | -- | 140 | 140 |
| Chloride | mg/L | 27 | 23 | -- | 17 | 20 |
| Fluoride | mg/L | <0.23 | <0.23 | -- | <0.28 | <0.28 |
| Field pH | Std. Units | 7.31 | 7.26 | 7.2 | 7.34 | 7.69 |
| Sulfate | mg/L | 340 | 330 | -- | 310 | 410 |
| Total Dissolved Solids | mg/L | 730 | 710 | -- | 710 | 780 |
| Antimony | ug/L | <0.51 | 1.7 | -- | <1.1 | <1.1 |
| Arsenic | ug/L | 2.9 | 2.9 | -- | 2.1 | 1.7 |
| Barium | ug/L | 270 | 280 | -- | 310 | 230 |
| Beryllium | ug/L | <0.27 | <0.27 | -- | <0.27 | <0.27 |
| Cadmium | ug/L | <0.049 | 0.065 | -- | <0.051 | <0.051 |
| Chromium | ug/L | <1.1 | <1.1 | -- | <1.1 | <1.1 |
| Cobalt | ug/L | 0.12 | 0.11 | -- | 0.11 | <0.19 |
| Lead | ug/L | 0.11 | <0.11 | -- | <0.21 | <0.21 |
| Lithium | ug/L | 11 | 11 | 11 | 9.6 | 12 |
| Mercury | ug/L | <0.1 | <0.1 | -- | <0.15 | -- |
| Molybdenum | ug/L | 120 | 110 | 87 | 95 | 93 |
| Selenium | ug/L | <1 | <1 | -- | <0.96 | <0.96 |
| Thallium | ug/L | <0.26 | -- | -- | <0.26 | <0.26 |
| Total Radium | pCi/L | 1.15 | 0.785 | -- | 1.4 | 2.08 |
| Radium-226 | pCi/L | 0.421 | -0.0548 | -- | 0.641 | 0.854 |
| Radium-228 | pCi/L | 0.727 | 0.785 | -- | 0.755 | 1.22 |
| Field Oxidation Potential | mV | -142 | -175.3 | -165.6 | -150.2 | -115.3 |
| Field Specific Conductance | umhos/cm | 1013 | 951 | 975 | 1026 | 1124 |
| Field Temperature | deg C | 13.3 | 13.1 | 12.5 | 12.7 | 13.6 |
| Groundwater Elevation | feet | 519.71 | 518.79 | 520.14 | 522.25 | 518.64 |
| Oxygen, Dissolved | mg/L | 0.27 | 0.19 | 0.16 | 0.18 | 0.26 |
| Turbidity | NTU | 0.01 | 3.82 | 0.48 | 2.94 | 11.2 |
| pH at 25 Degrees C | Std. Units | 7.4 | 8 | -- | 7.4 | 7.3 |
| Bicarbonate Alkalinity as CaCO3 | mg/L | -- | 150 | 180 | 190 | 200 |
| Carbonate Alkalinity as CaCO3 | mg/L | -- | <3.8 | <4.2 | <2.3 | <4.6 |
| Iron, dissolved | ug/L | -- | 8600 | 8600 | 7500 | 6600 |
| Manganese, dissolved | ug/L | -- | 3800 | 3500 | 3500 | 3300 |
| Molybdenum, dissolved | ug/L | -- | 120 | 90 | 89 | 99 |
| Total Alkalinity as CaCO3 | mg/L | -- | 150 | 180 | 190 | 200 |
| Iron, total | ug/L | -- | 8400 | 8300 | 8000 | 6900 |
| Magnesium, total | ug/L | -- | 28000 | 32000 | 34000 | 33000 |
| Manganese, total | ug/L | -- | 3600 | 3300 | 3600 | 3500 |
| Potassium, total | ug/L | -- | 3600 | 3600 | 3500 | 3600 |
| Sodium, total | ug/L | -- | 34000 | 32000 | 33000 | 51000 |
| Lithium, dissolved | ug/L | -- | -- | 12 | 9.1 | 12 |

Single Location

Name: IPL - Burlington

| Location ID: MW-303 | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------|------------|-----------|----------|-----------|-----------|-----------|----------|-----------|-----------|------------|----------|-----------|------------|-----------|----------|------------|---------------|------------|----------|-----------|------------|
| Number of Sampling Dates: 20 | | | | | | | | | | | | | | | | | | | | | |
| Parameter Name | Units | 4/20/2016 | 6/6/2016 | 8/16/2016 | 10/3/2016 | 1/10/2017 | 4/3/2017 | 6/12/2017 | 8/15/2017 | 10/17/2017 | 5/9/2018 | 8/13/2018 | 10/10/2018 | 3/12/2019 | 4/3/2019 | 10/10/2019 | 6/3/2020 | 10/16/2020 | 3/1/2021 | 4/19/2021 | 10/13/2021 |
| Boron | ug/L | 25800 | 27500 | 26700 | 26100 | 25400 | 28800 | 26600 | 24100 | 25400 | 22900 | 24500 | 24500 | -- | 22000 | 21000 | 23000 | 19000 | -- | 16000 | 17000 |
| Calcium | mg/L | 86.3 | 79.9 | 81.3 | 87.8 | 71.2 | 88.6 | 105 | 79.4 | 84.5 | 87 | 85.9 | 87.8 | -- | 86 | 91 | 120 | 120 | -- | 140 | 130 |
| Chloride | mg/L | 17 | 16 | 16.3 | 16.1 | 14.4 | 15.2 | 17.3 | 15.3 | 15.3 | 15.1 | 15.7 | 16.3 | -- | 15 | 16 | 18 | 17 | -- | 15 | 17 |
| Fluoride | mg/L | 0.43 | 0.16 | 0.28 | 0.28 | 0.18 | 0.2 | 0.22 | 0.24 | 0.25 | 0.22 | 0.44 | 0.27 | -- | 0.43 | <0.23 | 0.27 | <0.23 | -- | <0.28 | <0.28 |
| Field pH | Std. Units | 7.39 | 7.48 | 7.57 | 7.56 | 7.64 | 7.57 | 7.24 | 6.97 | 8.59 | 7.51 | 8.03 | 7.1 | 6.46 | 7.79 | 7.13 | 7.12 | 7.19 | 7.15 | 7.25 | 7.25 |
| Sulfate | mg/L | 34.6 | 23.3 | 14.8 | 6.6 | 34.1 | 24.1 | 3.9 | 46 | 42.1 | 128 | 78.7 | 31.8 | -- | 120 | 84 | 100 | 190 | -- | 250 | 250 |
| Total Dissolved Solids | mg/L | 450 | 441 | 440 | 447 | 404 | 454 | 557 | 434 | 436 | 502 | 520 | 462 | -- | 540 | 420 | 640 | 630 | -- | 670 | 610 |
| Antimony | ug/L | 0.55 | 0.12 | <0.058 | 0.09 | <0.058 | 0.029 | <0.026 | 0.13 | -- | <0.026 | <0.15 | <0.078 | -- | <0.53 | <0.53 | <0.58 | 0.57 | -- | <1.1 | <1.1 |
| Arsenic | ug/L | 38.6 | 26.5 | 44.5 | 33 | 12.8 | 21.7 | 48.1 | 30.9 | -- | 7.9 | 52 | 29.8 | -- | 6.4 | 17 | 18 | 14 | -- | 15 | 14 |
| Barium | ug/L | 361 | 250 | 230 | 237 | 267 | 334 | 386 | 281 | -- | 412 | 354 | 415 | -- | 440 | 440 | 610 | 480 | -- | 450 | 360 |
| Beryllium | ug/L | 0.9 | <0.08 | <0.08 | <0.08 | <0.08 | 0.019 | 0.018 | 0.02 | -- | <0.012 | <0.12 | <0.089 | -- | <0.27 | <0.27 | <0.27 | <0.27 | -- | <0.27 | <0.27 |
| Cadmium | ug/L | 0.58 | <0.029 | <0.029 | <0.029 | <0.029 | <0.018 | <0.018 | 0.018 | -- | 0.028 | <0.07 | <0.033 | -- | <0.077 | <0.039 | <0.039 | <0.049 | -- | <0.051 | 0.051 |
| Chromium | ug/L | 23.4 | 0.48 | 0.4 | <0.34 | 0.78 | 0.2 | 0.43 | 0.38 | -- | 0.27 | 0.29 | 0.69 | -- | <0.98 | <0.98 | <1.1 | <1.1 | -- | <1.1 | <1.1 |
| Cobalt | ug/L | 7.8 | 0.56 | 0.55 | 0.64 | <0.5 | 0.38 | 0.68 | 0.42 | -- | 0.31 | 0.46 | 0.62 | -- | 0.36 | 0.45 | 0.56 | 0.49 | -- | 0.42 | 0.42 |
| Lead | ug/L | 21 | <0.19 | <0.19 | <0.19 | 0.21 | 0.047 | <0.033 | 0.14 | -- | 0.21 | 0.22 | 0.54 | -- | 0.49 | <0.27 | 0.29 | 0.18 | -- | <0.21 | <0.21 |
| Lithium | ug/L | 35.8 | 34.6 | 24 | 30.3 | 48.8 | 46.6 | 26.2 | 45.1 | -- | 50.7 | 42.1 | 35.8 | 51.6 | 52 | 46 | 48 | 59 | -- | 66 | 61 |
| Mercury | ug/L | <0.046 | <0.039 | <0.039 | <0.039 | <0.055 | <0.046 | <0.046 | <0.046 | -- | <0.09 | -- | <0.09 | -- | <0.1 | -- | <0.1 | <0.1 | -- | <0.15 | -- |
| Molybdenum | ug/L | 67.4 | 55.4 | 39.4 | 34.2 | 52.8 | 51.7 | 33.8 | 73.1 | -- | 75.4 | 77.9 | 56.5 | -- | 110 | 76 | 66 | 84 | -- | 120 | 120 |
| Selenium | ug/L | 2.2 | <0.18 | 0.3 | 0.22 | 0.26 | 0.28 | 0.3 | 0.23 | -- | 0.19 | 0.24 | 0.33 | -- | <1 | <1 | <1 | <1 | -- | <0.96 | <0.96 |
| Thallium | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.063 | <0.036 | 0.13 | -- | <0.036 | -- | <0.099 | -- | <0.27 | -- | <0.26 | -- | -- | <0.26 | <0.26 |
| Total Radium | pCi/L | 2.18 | 0.522 | 1.59 | 0.464 | 1.98 | 1.53 | 1.86 | 2.19 | -- | 1.64 | 1.79 | 1.91 | -- | 1.26 | 1.04 | 0.892/0.892 | 1.26 | -- | 2.21 | 0.678 |
| Radium-226 | pCi/L | 0.866 | 0 | 0.269 | 0.393 | 0.677 | 0.542 | 0.734 | 1.37 | -- | 0.677 | 0.462 | 0.997 | -- | 0.552 | 0.728 | 0.804/0.804 | 0.317 | -- | 0.866 | 0.628 |
| Radium-228 | pCi/L | 1.31 | 0.522 | 1.32 | 0.0706 | 1.3 | 0.99 | 1.13 | 0.821 | -- | 0.965 | 1.33 | 0.913 | -- | 0.703 | 0.316 | <0.511/0.0877 | 0.944 | -- | 1.35 | 0.0509 |
| Collected By | | -- | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | -- | -- | -- | 0 | -- | -- | -- | -- | -- | -- | -- |
| Field Oxidation Potential | mV | -101.6 | -113 | -184.4 | -164.5 | -150.6 | -163.9 | -102.9 | -132 | 21.3 | -165.5 | -153 | -132 | -68.1 | -122.8 | -161 | 58.1 | -185.6 | -174.2 | -144.8 | -118.4 |
| Field Specific Conductance | umhos/cm | 513 | 1009 | 1271 | 1175 | 1024 | 1100 | 599.8 | 887 | 612.6 | 535.7 | 748 | 774 | 549 | 711 | 767 | 934 | 902 | 916 | 995 | 843 |
| Field Temperature | deg C | 13.8 | 13.9 | 14.2 | 14.8 | 14.3 | 14.1 | 14.2 | 14.4 | 14.5 | 13.8 | 16.8 | 15.6 | 13.62 | 12.63 | 14.91 | 14.8 | 13.7 | 13.6 | 13.2 | 13.9 |
| Groundwater Elevation | feet | 521.76 | 521.26 | 521.31 | 527.57 | 525.56 | 522.81 | 522.8 | 519.3 | 522.23 | 525.8 | 519.78 | 528.78 | 522.74 | 528.22 | -- | 523.97 | 518.78 | 520.09 | 522.13 | 518.58 |
| Oxygen, Dissolved | mg/L | 0.08 | 1.02 | 1.31 | 0.48 | 0.1 | 0.2 | 0.07 | 0.13 | 0.11 | 0.24 | 1 | 2.38 | 0.67 | 0.26 | 0.18 | 0.12 | 0.12 | 0.12 | 0.19 | 0.16 |
| Turbidity | NTU | 487.4 | 2.45 | 0.24 | 3.76 | 3.85 | 4.42 | 2.57 | 0.46 | 2.79 | 0.97 | 14.26 | 17.3 | 19.4 | 18.2 | 5.36 | 16.03 | 2.03 | 1.82 | 4.35 | 13.6 |
| Collected Date | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 3 | -- | -- | -- | -- | -- | -- | -- |
| Collected Time | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 11 | -- | -- | -- | -- | -- | -- | -- |
| pH at 25 Degrees C | Std. Units | 7.2 | 7.4 | 7.2 | 7.3 | 7.6 | 7.6 | 6.9 | 7.2 | 7.3 | 7.4 | 7.3 | 7.1 | -- | 7.4 | 7.4 | 7.2 | 8 | -- | 7.3 | 7.3 |
| Bicarbonate Alkalinity as CaCO3 | mg/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 290 | 210 | 280 | 270 |
| Carbonate Alkalinity as CaCO3 | mg/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <3.8 | <4.6 | <4.6 | <4.6 |
| Iron, dissolved | ug/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 8700 | 7600 | 7500 | 7000 |
| Manganese, dissolved | ug/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 3900 | 3400 | 3800 | 4000 |
| Molybdenum, dissolved | ug/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 85 | 120 | 110 | 130 |
| Total Alkalinity as CaCO3 | mg/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 290 | 210 | 280 | 270 |
| Iron, total | ug/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 8500 | 7600 | 7900 | 6900 |
| Magnesium, total | ug/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 21000 | 20000 | 22000 | 20000 |
| Manganese, total | ug/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 3700 | 3400 | 4000 | 4000 |
| Potassium, total | ug/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 22000 | 22000 | 23000 | 18000 |
| Sodium, total | ug/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 30000 | 33000 | 34000 | 28000 |
| Lithium, dissolved | ug/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 59 | 66 | 59 | 62 |

Single Location
Name: IPL - Burlington

| Location ID: MW-304 | | Number of Sampling Dates: 20 | | | | | | | | | | | | | | | | | | | |
|---------------------------------|------------|------------------------------|----------|-----------|-----------|----------|----------|-----------|-----------|------------|----------|-----------|------------|-----------|----------|------------|--------------|------------|----------|-----------|------------|
| Parameter Name | Units | 4/20/2016 | 6/6/2016 | 8/16/2016 | 10/3/2016 | 1/9/2017 | 4/3/2017 | 6/12/2017 | 8/15/2017 | 10/17/2017 | 5/9/2018 | 8/13/2018 | 10/10/2018 | 3/12/2019 | 4/3/2019 | 10/10/2019 | 6/3/2020 | 10/15/2020 | 3/1/2021 | 4/19/2021 | 10/13/2021 |
| Boron | ug/L | 5020 | 5050 | 5050 | 4910 | 5350 | 5340 | 5160 | 5370 | 5580 | 5140 | 5440 | 6180 | -- | 6300 | 5100 | 6400 | 7400 | -- | 7700 | 7600 |
| Calcium | mg/L | 142 | 137 | 144 | 155 | 136 | 118 | 90.1 | 97.2 | 103 | 107 | 102 | 88.5 | -- | 72 | 140 | 150 | 150 | -- | 110 | 130 |
| Chloride | mg/L | 34.7 | 30 | 28.2 | 30.7 | 47.7 | 39.2 | 35.2 | 30.2 | 46.5 | 58.1 | 25.9 | 50.3 | -- | 39 | 25 | 21 | 21 | -- | 18 | 23 |
| Fluoride | mg/L | 0.092 | <0.073 | <0.027 | 0.072 | <0.027 | <0.1 | <0.1 | <0.1 | 0.12 | 0.11 | 0.13 | <0.19 | -- | 0.35 | <0.23 | <0.23 | <0.23 | -- | <0.28 | <0.28 |
| Field pH | Std. Units | 9.2 | 8.65 | 9.42 | 9.25 | 9.44 | 8.58 | 7.93 | 8.71 | 9.52 | 8.51 | 7.6 | 9.01 | 6.94 | 8.56 | 7.17 | 7.23 | 8.46 | 8.26 | 8.32 | 7.53 |
| Sulfate | mg/L | 397 | 324 | 383 | 431 | 330 | 263 | 211 | 216 | 248 | 273 | 188 | 271 | -- | 140 | 220 | 250 | 420 | -- | 280 | 220 |
| Total Dissolved Solids | mg/L | 706 | 678 | 718 | 721 | 651 | 593 | 519 | 501 | 540 | 657 | 551 | 537 | -- | 460 | 710 | 750 | 820 | -- | 640 | 570 |
| Antimony | ug/L | 0.77 | 0.77 | 0.76 | 0.51 | 0.8 | 0.63 | 0.51 | 0.88 | -- | 0.75 | 0.3 | 0.77 | -- | 0.66 | <0.53 | <0.58 | 0.52 | -- | <1.1 | <1.1 |
| Arsenic | ug/L | 60 | 59.4 | 64.3 | 58.9 | 68.7 | 60 | 58.4 | 65.6 | -- | 57.2 | 45.4 | 58.3 | -- | 59 | 36 | 35 | 49 | -- | 41 | 32 |
| Barium | ug/L | 112 | 127 | 115 | 130 | 117 | 131 | 126 | 84.7 | -- | 115 | 140 | 92 | -- | 90 | 210 | 220 | 170 | -- | 180 | 160 |
| Beryllium | ug/L | <0.08 | <0.08 | <0.08 | <0.08 | <0.08 | 0.036 | <0.012 | <0.012 | -- | <0.012 | <0.12 | <0.089 | -- | <0.27 | <0.27 | <0.27 | <0.27 | -- | <0.27 | <0.27 |
| Cadmium | ug/L | <0.029 | <0.029 | <0.029 | <0.029 | <0.029 | <0.018 | <0.018 | <0.018 | -- | <0.018 | <0.07 | 0.054 | -- | <0.077 | <0.039 | <0.039 | <0.049 | -- | <0.051 | <0.051 |
| Chromium | ug/L | <0.34 | <0.34 | 0.58 | 0.42 | <0.34 | 0.16 | 0.087 | 0.3 | -- | 0.22 | 0.34 | 0.091 | -- | <0.98 | <0.98 | <1.1 | <4.4 | -- | <1.1 | <1.1 |
| Cobalt | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.13 | 0.11 | 0.1 | -- | 0.098 | <0.15 | 0.19 | -- | 0.11 | 0.13 | 0.15 | <0.36 | -- | <0.091 | <0.19 |
| Lead | ug/L | <0.19 | <0.19 | <0.19 | <0.19 | <0.19 | <0.033 | <0.033 | 0.9 | -- | <0.033 | <0.12 | <0.13 | -- | <0.27 | <0.27 | <0.27 | <0.11 | -- | <0.21 | <0.21 |
| Lithium | ug/L | 52.4 | 57.8 | 48.5 | 61 | 70.7 | 52.1 | 44.1 | 51 | -- | 63.8 | 34.3 | 82.4 | 35.9 | 52 | 38 | 47 | 92 | -- | 75 | 60 |
| Mercury | ug/L | <0.046 | <0.039 | <0.039 | <0.039 | <0.055 | <0.046 | <0.046 | <0.046 | -- | <0.09 | -- | <0.09 | -- | <0.1 | -- | 0.11 | <0.1 | -- | <0.15 | -- |
| Molybdenum | ug/L | 101 | 105 | 118 | 131 | 121 | 90.6 | 67.4 | 66.8 | -- | 126 | 74.9 | 113 | 47.4 | 58 | 47 | 45 | 140 | -- | 100 | 59 |
| Selenium | ug/L | <0.18 | <0.18 | 0.23 | 0.24 | 0.24 | 0.31 | 0.19 | 0.26 | -- | 0.24 | 0.21 | 0.26 | -- | <1 | <1 | <1 | <4 | -- | <0.96 | <0.96 |
| Thallium | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.068 | <0.036 | 0.12 | -- | <0.036 | -- | <0.099 | -- | <0.27 | -- | <0.26 | -- | -- | <0.26 | <0.26 |
| Total Radium | pCi/L | 1.26 | 0.659 | 1.1 | 1.16 | 0.455 | 0.742 | 1.29 | 0.752 | -- | 0.589 | 0.725 | 0.706 | -- | 0.408 | 0.781 | 0.573/0.573 | 0.304 | -- | 0.699 | 0.797 |
| Radium-226 | pCi/L | 0 | 0.0649 | 0.22 | 0.458 | 0.067 | 0.48 | 0.928 | 0.404 | -- | 0.405 | 0.151 | 0.233 | -- | 0.116 | 0.353 | 0.3/0.3 | 0.0765 | -- | 0.213 | 0.201 |
| Radium-228 | pCi/L | 1.26 | 0.594 | 0.881 | 0.704 | 0.388 | 0.262 | 0.362 | 0.348 | -- | 0.184 | 0.574 | 0.473 | -- | 0.292 | 0.428 | <0.375/0.272 | 0.227 | -- | 0.486 | 0.596 |
| Collected By | | -- | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | -- | -- | -- | 0 | -- | -- | -- | -- | -- | -- | -- |
| Field Oxidation Potential | mV | -309.5 | -153 | -301 | -251.4 | -274.8 | -260.1 | -160.6 | -231.3 | 5.9 | -273 | -202 | -100.2 | -73.8 | -216.7 | -157.5 | 52.4 | -282.6 | -280.2 | -257.8 | -149 |
| Field Specific Conductance | umhos/cm | 766 | 1455 | 1840 | 1712 | 1634 | 1427 | 512.5 | 971 | 756 | 906 | 836 | 780 | 460 | 658 | 934 | 1087 | 1062 | 971 | 935 | 806 |
| Field Temperature | deg C | 13.9 | 14 | 14.4 | 15.3 | 15 | 14.1 | 14.3 | 14.8 | 15.1 | 13.5 | 18.1 | 17.41 | 13.87 | 12.96 | 15.64 | 14.6 | 14.7 | 14.1 | 13.2 | 14.5 |
| Groundwater Elevation | feet | 521.78 | 521.28 | 521.37 | 527.57 | 525.62 | 522.87 | 522.9 | 519.23 | 522.32 | 525.85 | 519.81 | 528.82 | 522.8 | 528.27 | -- | 524.02 | 518.69 | 520.15 | 522.24 | 518.68 |
| Oxygen, Dissolved | mg/L | 0.04 | 1.55 | 4.79 | 0.43 | 0.11 | 0.11 | 0.17 | 0.03 | 0.1 | 1.4 | 0.09 | 0.23 | 2.11 | 0.39 | 0.28 | 0.15 | 0.08 | 0.07 | 0.07 | 0.15 |
| Turbidity | NTU | 1.43 | 1.26 | 0.01 | 0.3 | 0 | 0.61 | 0.23 | 0.26 | 1.89 | 2.84 | 4.26 | 1.36 | 9.28 | 6.22 | 1.18 | 18.18 | 0.02 | 0.02 | 3.34 | 7.7 |
| Collected Date | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 3 | -- | -- | -- | -- | -- | -- | -- |
| Collected Time | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1141 | -- | -- | -- | -- | -- | -- | -- |
| pH at 25 Degrees C | Std. Units | 8.8 | 8.9 | 8.8 | 8.8 | 8.2 | 7.9 | 7.9 | 8.8 | 8.9 | 8.3 | 7.5 | 8.6 | -- | 8 | 7.5 | 7.4 | 8.4 | -- | 8.3 | 8 |
| Bicarbonate Alkalinity as CaCO3 | mg/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 130 | 130 | 150 | 250 |
| Carbonate Alkalinity as CaCO3 | mg/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <3.8 | <2.6 | <2.3 | <4.6 |
| Iron, dissolved | ug/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 720 | 1100 | 1300 | 1900 |
| Manganese, dissolved | ug/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 440 | 760 | 680 | 1100 |
| Molybdenum, dissolved | ug/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 140 | 140 | 99 | 90 |
| Total Alkalinity as CaCO3 | mg/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 130 | 130 | 150 | 250 |
| Iron, total | ug/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 660 | 1200 | 1500 | 2000 |
| Magnesium, total | ug/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 3800 | 5200 | 6300 | 6600 |
| Manganese, total | ug/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 380 | 750 | 710 | 1100 |
| Potassium, total | ug/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 14000 | 15000 | 11000 | 12000 |
| Sodium, total | ug/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 51000 | 46000 | 53000 | 46000 |
| Lithium, dissolved | ug/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 93 | 86 | 57 | 61 |

Single Location

Name: IPL - Burlington

| Location ID: MW-306 | | Number of Sampling Dates: 20 | | | | | | | | | | | | | | | | | | | |
|---------------------------------|------------|------------------------------|----------|-----------|-----------|-----------|----------|-----------|-----------|------------|----------|-----------|------------|-----------|----------|------------|----------------|------------|----------|-----------|------------|
| Parameter Name | Units | 4/21/2016 | 6/6/2016 | 8/17/2016 | 10/3/2016 | 1/10/2017 | 4/4/2017 | 6/13/2017 | 8/16/2017 | 10/16/2017 | 5/9/2018 | 8/14/2018 | 10/10/2018 | 3/11/2019 | 4/3/2019 | 10/11/2019 | 6/4/2020 | 10/15/2020 | 3/2/2021 | 4/19/2021 | 10/11/2021 |
| Boron | ug/L | 3460 | 3340 | 3300 | 3340 | 3630 | 3770 | 3350 | 3700 | 3680 | 3480 | 3430 | 3350 | -- | 2900 | 3100 | 3200 | 3200 | -- | 3000 | 2800 |
| Calcium | mg/L | 37.5 | 38.1 | 41.2 | 40.8 | 37.5 | 40.3 | 34.5 | 38.9 | 35.3 | 32 | 33.5 | 34.6 | -- | 37 | 38 | 41 | 37 | -- | 41 | 42 |
| Chloride | mg/L | 22.9 | 22.6 | 20.6 | 21.1 | 20.6 | 20.2 | 20.6 | 20.6 | 20.6 | 20.3 | 20.6 | 20.9 | -- | 21 | 20 | 21 | 18 | -- | 17 | 19 |
| Fluoride | mg/L | 0.093 | <0.073 | 0.03 | 0.075 | 0.052 | <0.1 | <0.1 | <0.1 | 0.15 | 0.12 | 0.1 | <0.19 | -- | 0.36 | <0.23 | <0.23 | <0.23 | -- | <0.28 | <0.28 |
| Field pH | Std. Units | 10.4 | 10.36 | 6.37 | 6.5 | 6.33 | 6.29 | 11.25 | 6.59 | 10.66 | 6.8 | 10.33 | 6.04 | 6.27 | 6.69 | 10.53 | 10.48 | 10 | 9.46 | 10.02 | 5.83 |
| Sulfate | mg/L | 152 | 132 | 135 | 137 | 123 | 120 | 126 | 93.4 | 97.5 | 107 | 111 | 121 | -- | 110 | 110 | 120 | 71 | -- | 110 | 120 |
| Total Dissolved Solids | mg/L | 333 | 321 | 348 | 333 | 307 | 302 | 305 | 312 | 301 | 396 | 303 | 289 | -- | 320 | 290 | 320 | 300 | -- | 260 | 250 |
| Antimony | ug/L | 1.2 | 1.2 | 1 | 1.2 | 1.3 | 1.2 | 1.4 | 0.92 | -- | 1.2 | 1.4 | 1.2 | -- | 1.1 | 1.2 | 1.1 | 0.9 | -- | 1.4 | <1.1 |
| Arsenic | ug/L | 56.6 | 47.4 | 43.9 | 46.4 | 53.4 | 50.5 | 48.1 | 43.2 | -- | 52.6 | 48 | 50.6 | -- | 50 | 46 | 50 | 46 | -- | 53 | 43 |
| Barium | ug/L | 21.2 | 18.2 | 18.8 | 15.5 | 14.4 | 14.8 | 14.1 | 14.3 | -- | 13.6 | 15.5 | 14.8 | -- | 14 | 14 | 16 | 16 | -- | 19 | 17 |
| Beryllium | ug/L | <0.08 | <0.08 | <0.08 | <0.08 | <0.08 | 0.024 | 0.054 | <0.012 | -- | <0.012 | 0.14 | <0.089 | -- | <0.27 | <0.27 | <0.27 | <0.27 | -- | <0.27 | <0.27 |
| Cadmium | ug/L | <0.029 | <0.029 | <0.029 | <0.029 | <0.029 | <0.018 | 0.036 | <0.018 | -- | 0.029 | 0.18 | <0.033 | -- | <0.077 | <0.039 | <0.039 | <0.049 | -- | <0.051 | <0.051 |
| Chromium | ug/L | <0.34 | <0.34 | 0.4 | <0.34 | 0.45 | 0.49 | 0.31 | 0.43 | -- | 0.24 | 0.25 | 0.18 | -- | <0.98 | <0.98 | <1.1 | <1.1 | -- | <1.1 | <1.1 |
| Cobalt | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.034 | 0.046 | 0.054 | -- | 0.035 | 0.18 | <0.062 | -- | <0.091 | <0.091 | <0.091 | <0.091 | -- | <0.091 | <0.19 |
| Lead | ug/L | 0.28 | <0.19 | <0.19 | <0.19 | 0.19 | 0.16 | 0.25 | 0.3 | -- | 0.26 | 0.69 | 0.37 | -- | <0.27 | 0.44 | 0.33 | 0.43 | -- | <0.21 | 0.26 |
| Lithium | ug/L | 33.5 | 37.9 | 39.5 | 35.9 | 44.1 | 41.2 | 41.4 | 46.8 | -- | 36.6 | 46.8 | 41.4 | 39.2 | 45 | 46 | 43 | 42 | -- | 43 | 41 |
| Mercury | ug/L | <0.046 | <0.039 | <0.039 | <0.039 | <0.055 | <0.046 | <0.046 | <0.046 | -- | <0.09 | -- | <0.09 | -- | <0.1 | -- | 0.1 | <0.1 | -- | <0.15 | -- |
| Molybdenum | ug/L | 95.7 | 84.1 | 80.9 | 83.7 | 88.9 | 87.4 | 80.4 | 94.4 | -- | 84.7 | 82.9 | 83.5 | -- | 78 | 84 | 86 | 82 | -- | 87 | 69 |
| Selenium | ug/L | 0.66 | 0.54 | 0.81 | 0.46 | 0.55 | 0.48 | 0.74 | 0.52 | -- | 0.66 | 0.97 | 0.6 | -- | <1 | <1 | <1 | <1 | -- | <0.96 | 1.2 |
| Thallium | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.036 | 0.15 | -- | <0.036 | -- | <0.099 | -- | <0.27 | -- | <0.26 | -- | -- | -- | <0.26 | <0.26 |
| Total Radium | pCi/L | 1.28 | 0.858 | 0.208 | 0.0727 | 0.744 | 1.19 | 0.254 | 1.03 | -- | 0.482 | 1.04 | 1.1 | -- | 0.165 | 0.526 | <0.313/0.0769 | 0.119 | -- | 0.415 | 0.114 |
| Radium-226 | pCi/L | 0.438 | 0.144 | 0 | -0.143 | 0.0633 | 0.457 | 0.157 | 0.424 | -- | 0.174 | 0.397 | 0.383 | -- | 0.0333 | 0.21 | <0.0638/0.0516 | 0.0226 | -- | 0.121 | 0.11 |
| Radium-228 | pCi/L | 0.841 | 0.714 | 0.208 | 0.0727 | 0.681 | 0.731 | 0.0974 | 0.604 | -- | 0.308 | 0.64 | 0.712 | -- | 0.132 | 0.316 | <0.313/0.0253 | 0.0962 | -- | 0.294 | 0.00348 |
| Collected By | | -- | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | -- | -- | -- | 0 | -- | -- | -- | -- | -- | -- | -- |
| Field Oxidation Potential | mV | -127.8 | -181 | -155.5 | -96.8 | -26.7 | -64.7 | -151 | -52.5 | 286.2 | -104.3 | -265 | 58.1 | -88.9 | -92.8 | -165.1 | 59 | -273.7 | -196 | -188 | 12.3 |
| Field Specific Conductance | umhos/cm | 398 | 977 | 1000 | 874 | 864 | 823 | 331.7 | 662 | 447.9 | 354.2 | 447 | 478 | 343 | 4711 | 473 | 482 | 453.7 | 415 | 442 | 476.1 |
| Field Temperature | deg C | 14.5 | 14.4 | 14.8 | 14.8 | 14.4 | 14.5 | 15.8 | 14.9 | 14.8 | 14.7 | 15.9 | 17.25 | 14.27 | 13.44 | 14.28 | 14.4 | 14.1 | 14.1 | 13.8 | 16 |
| Groundwater Elevation | feet | 521.74 | 521.43 | 521.53 | 527.67 | 525.67 | 523.07 | 522.87 | 519.82 | 522.72 | 526 | 520.14 | 528.95 | 523.21 | 528.4 | -- | 524.45 | 519.05 | 520.65 | 522.52 | 519.15 |
| Oxygen, Dissolved | mg/L | 0.11 | 0.57 | 1.91 | 0.14 | 0.06 | 0.12 | 0.22 | 0.03 | 0.37 | 0.05 | 0.3 | 0.38 | 0.8 | 0.69 | 0.21 | 0.16 | 0.11 | 0.39 | 0.34 | 0.28 |
| Turbidity | NTU | 0.4 | 0.1 | 0.4 | 0.97 | 0.19 | 0.14 | 0.81 | 0.1 | 0.35 | 0.71 | 2.88 | 2.67 | 0.56 | 0.81 | 1.84 | 15.96 | 0.02 | 0.02 | 0.02 | 6.9 |
| Collected Date | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 3 | -- | -- | -- | -- | -- | -- | -- |
| Collected Time | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 17 | -- | -- | -- | -- | -- | -- | -- |
| pH at 25 Degrees C | Std. Units | 9.9 | 10.2 | 6.1 | 6.8 | 7.1 | 6.8 | 10.2 | 6.8 | 9.7 | 6.5 | 10 | 6 | -- | 6 | 10.5 | 10.3 | 9.6 | -- | 10.3 | 6.2 |
| Bicarbonate Alkalinity as CaCO3 | mg/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 52 | 68 | <2.3 | 95 |
| Carbonate Alkalinity as CaCO3 | mg/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 82 | 46 | 50 | <4.6 |
| Iron, dissolved | ug/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <50 | <36 | <36 | <36 |
| Manganese, dissolved | ug/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <4 | 5.4 | <4.4 | 8 |
| Molybdenum, dissolved | ug/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 77 |
| Total Alkalinity as CaCO3 | mg/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 130 | 110 | 74 | 95 |
| Iron, total | ug/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <50 | 54 | <36 | <36 |
| Magnesium, total | ug/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <100 | <100 | <100 | 120 |
| Manganese, total | ug/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 5.4 | 6.5 | <4.4 | 7.7 |
| Potassium, total | ug/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 20000 | 19000 | 23000 | 20000 |
| Sodium, total | ug/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 46000 | 50000 | 40000 | 45000 |
| Lithium, dissolved | ug/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 42 | 29 | 41 | 38 |

Single Location

Name: IPL - Burlington

| Location ID: MW-307 | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------|------------|-----------|----------|-----------|-----------|-----------|----------|-----------|-----------|------------|----------|-----------|------------|-----------|----------|------------|---------------|------------|----------|-----------|------------|
| Number of Sampling Dates: 20 | | | | | | | | | | | | | | | | | | | | | |
| Parameter Name | Units | 4/20/2016 | 6/6/2016 | 8/17/2016 | 10/3/2016 | 1/10/2017 | 4/4/2017 | 6/13/2017 | 8/16/2017 | 10/16/2017 | 5/9/2018 | 8/14/2018 | 10/10/2018 | 3/11/2019 | 4/3/2019 | 10/11/2019 | 6/4/2020 | 10/15/2020 | 3/2/2021 | 4/20/2021 | 10/11/2021 |
| Boron | ug/L | 3720 | 3760 | 3720 | 3880 | 3960 | 4050 | 3740 | 3780 | 3920 | 3910 | 4090 | 3720 | -- | 3400 | 3700 | 3600 | 3400 | -- | 3400 | 3000 |
| Calcium | mg/L | 31.9 | 30.8 | 31.3 | 34.1 | 31.3 | 32.3 | 28.1 | 29.8 | 31.3 | 27.3 | 27.2 | 27.6 | -- | 29 | 31 | 37 | 36 | -- | 39 | 42 |
| Chloride | mg/L | 23.5 | 22.6 | 21.4 | 21.6 | 21.3 | 20.9 | 21.3 | 20.7 | 20.8 | 20.1 | 20.1 | 21.6 | -- | 21 | 19 | 21 | 17 | -- | 17 | 19 |
| Fluoride | mg/L | 0.099 | <0.073 | 0.032 | 0.079 | 0.057 | <0.1 | <0.1 | <0.1 | 0.13 | 0.11 | 0.094 | <0.19 | -- | 0.51 | <0.23 | <0.23 | <0.23 | -- | <0.28 | <0.28 |
| Field pH | Std. Units | 10.28 | 10.19 | 10.6 | 10.5 | 10.82 | 10.94 | 10.74 | 10.8 | 10.46 | 10.3 | 10.12 | 9.88 | 9.71 | 10.39 | 10.14 | 10.03 | 10.05 | 9.96 | 10.02 | 9.89 |
| Sulfate | mg/L | 183 | 150 | 160 | 161 | 145 | 135 | 136 | 130 | 126 | 119 | 119 | 143 | -- | 120 | 130 | 180 | 160 | -- | 140 | 170 |
| Total Dissolved Solids | mg/L | 408 | 385 | 386 | 374 | 355 | 354 | 353 | 356 | 341 | 347 | 340 | 336 | -- | 420 | 340 | 390 | 370 | -- | 330 | 280 |
| Antimony | ug/L | 0.46 | 0.62 | 0.48 | 0.64 | 0.53 | 0.48 | 0.48 | 0.54 | -- | 0.5 | 0.58 | 0.62 | -- | <0.53 | <0.53 | <0.58 | 0.56 | -- | <1.1 | <1.1 |
| Arsenic | ug/L | 53 | 57.4 | 57.1 | 59.2 | 56.2 | 55.8 | 52.8 | -- | 54.3 | 52.3 | 52.8 | -- | 43 | 47 | 47 | 47 | -- | 52 | 34 | |
| Barium | ug/L | 38.3 | 42.2 | 38.7 | 38.4 | 34.7 | 33.4 | 33 | 31.1 | -- | 32.3 | 29 | 31.1 | -- | 29 | 31 | 36 | 39 | -- | 39 | 39 |
| Beryllium | ug/L | <0.08 | <0.08 | <0.08 | <0.08 | <0.08 | 0.033 | <0.012 | <0.012 | -- | <0.012 | <0.12 | <0.089 | -- | <0.27 | <0.27 | <0.27 | <0.27 | -- | <0.27 | <0.27 |
| Cadmium | ug/L | <0.029 | <0.029 | <0.029 | <0.029 | <0.029 | <0.018 | <0.018 | 0.023 | -- | 0.12 | <0.07 | 0.068 | -- | <0.077 | <0.039 | 0.044 | <0.049 | -- | <0.051 | <0.051 |
| Chromium | ug/L | <0.34 | 0.84 | 0.5 | 0.62 | <0.34 | 0.19 | 0.24 | 0.33 | -- | 0.27 | 0.36 | 0.15 | -- | <0.98 | <0.98 | <1.1 | <1.1 | -- | <1.1 | <1.1 |
| Cobalt | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.037 | 0.042 | 0.034 | -- | 0.033 | <0.15 | <0.062 | -- | <0.091 | <0.091 | <0.091 | <0.091 | -- | <0.091 | <0.19 |
| Lead | ug/L | 0.48 | 1.1 | 0.36 | 0.36 | 0.45 | 0.43 | 0.43 | 0.46 | -- | 0.39 | 0.43 | 0.49 | -- | 0.37 | 0.41 | <0.27 | 0.19 | -- | <0.21 | <0.21 |
| Lithium | ug/L | 43.1 | 45.6 | 42.4 | 45.1 | 49.6 | 48.4 | 42.2 | 47.5 | -- | 47.8 | 56.1 | 45.4 | 50.7 | 50 | 48 | 48 | 51 | -- | 53 | 52 |
| Mercury | ug/L | <0.046 | <0.039 | <0.039 | <0.039 | <0.055 | 0.047 | <0.046 | <0.046 | -- | <0.09 | -- | <0.09 | -- | <0.1 | -- | 0.12 | <0.1 | -- | <0.15 | -- |
| Molybdenum | ug/L | 146 | 155 | 142 | 150 | 154 | 154 | 155 | 152 | -- | 154 | 155 | 159 | 156 | 100 | 130 | 130 | 140 | -- | 140 | 85 |
| Selenium | ug/L | 0.47 | 0.45 | 0.46 | 0.45 | 0.44 | 0.42 | 0.46 | 0.42 | -- | 0.36 | 0.41 | 0.36 | -- | <1 | <1 | <1 | <1 | -- | <0.96 | <0.96 |
| Thallium | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.036 | <0.036 | 0.18 | -- | <0.036 | -- | <0.099 | -- | <0.27 | -- | <0.26 | -- | -- | <0.26 | <0.26 |
| Total Radium | pCi/L | 1.6 | 0.194 | 0.882 | 0.552 | 0 | 0.651 | 0.85 | 0.673 | -- | 0.0587 | 0.415 | 1.43 | -- | 0.447 | 0.232 | <0.471/0.277 | 0.18 | -- | 0.0114 | 1.14 |
| Radium-226 | pCi/L | 0.153 | -0.064 | 0.068 | 0.197 | -0.075 | -0.156 | 0.735 | 0.393 | -- | 0.0587 | 0 | 0.988 | -- | 0.0752 | 0.218 | <0.101/0.0806 | 0.18 | -- | 0.0114 | 0.103 |
| Radium-228 | pCi/L | 1.45 | 0.258 | 0.814 | 0.355 | -0.0697 | 0.651 | 0.115 | 0.28 | -- | -0.024 | 0.415 | 0.439 | -- | 0.372 | 0.0141 | <0.471/0.197 | -2.16 | -- | -0.01 | 1.04 |
| Collected By | | -- | 0 | 0 | -- | 0 | 0 | 0 | 0 | -- | -- | -- | -- | 0 | -- | -- | -- | -- | -- | -- | -- |
| Field Oxidation Potential | mV | -201.7 | -168 | -212.1 | -289.4 | -253.6 | -287.1 | -177.1 | -168.9 | -78.9 | -168.6 | -221 | -87.3 | -78.3 | -167.8 | -126.3 | 60.2 | -269.7 | -233 | -242.4 | -215.3 |
| Field Specific Conductance | umhos/cm | 480.2 | 1142 | 1064 | 958 | 940 | 901 | 368.3 | 735 | 485.7 | 499.9 | 512 | 497 | 367 | 500 | 536 | 586 | 564.8 | 552 | 546 | 547.9 |
| Field Temperature | deg C | 14.2 | 14.1 | 14.2 | 14.6 | 14.4 | 14.4 | 14.9 | 14.6 | 14.7 | 14.4 | 15.6 | 15.64 | 14.36 | 13.56 | 14.37 | 14.8 | 14 | 14 | 13.9 | 14.4 |
| Groundwater Elevation | feet | 522.38 | 521.75 | 521.91 | 527.81 | 525.81 | 523.14 | 523.17 | 520.16 | 522.55 | 526.06 | 520.46 | 529.08 | 523.49 | 528.63 | -- | 524.62 | 519.33 | 521.01 | 522.89 | 519.55 |
| Oxygen, Dissolved | mg/L | 0.08 | 0.6 | 6.01 | 0.29 | 0.11 | 0.28 | 0.12 | 0.19 | 0.18 | 1.1 | 0.49 | 0.22 | 1.07 | 0.68 | 0.24 | 0.3 | 0.11 | 0.38 | 0.08 | 0.16 |
| Turbidity | NTU | 1.54 | 0.46 | 0.6 | 1.4 | 0.6 | 0.14 | 3.11 | 1.98 | 0.32 | 1.87 | 5.09 | 1.85 | 1.05 | 3.1 | 3.23 | 14.33 | 0.02 | 0.49 | 2.38 | 8.2 |
| Collected Date | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 3 | -- | -- | -- | -- | -- | -- | -- |
| Collected Time | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1633 | -- | -- | -- | -- | -- | -- | -- |
| pH at 25 Degrees C | Std. Units | 9.8 | 10 | 9.8 | 10.1 | 9.6 | 9.8 | 9.8 | 9.8 | 9.8 | 9.9 | 9.9 | 9.9 | -- | 10 | 10.2 | 10 | 9.5 | -- | 10.4 | 10.2 |
| Bicarbonate Alkalinity as CaCO3 | mg/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <1.9 | 35 | <4.6 | 9.5 |
| Carbonate Alkalinity as CaCO3 | mg/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 79 | 49 | 79 | 110 |
| Iron, dissolved | ug/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <50 | <36 | <36 | <36 |
| Manganese, dissolved | ug/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 6.6 | 5.3 | 5.1 | 6.5 |
| Molybdenum, dissolved | ug/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 140 | 130 | 140 | 90 |
| Total Alkalinity as CaCO3 | mg/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 84 | 84 | 89 | 120 |
| Iron, total | ug/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <50 | <36 | <36 | <36 |
| Magnesium, total | ug/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <100 | <100 | <100 | <100 |
| Manganese, total | ug/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 6.4 | 5.4 | 5.5 | 6.4 |
| Potassium, total | ug/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 36000 | 38000 | 37000 | 36000 |
| Sodium, total | ug/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 54000 | 52000 | 53000 | 49000 |
| Lithium, dissolved | ug/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 50 | 52 | 51 | 50 |

Single Location

Name: IPL - Burlington

| Location ID: MW-307A | | | | | | |
|---------------------------------|------------|----------|------------|----------|-----------|------------|
| Number of Sampling Dates: 5 | | | | | | |
| Parameter Name | Units | 9/9/2020 | 10/14/2020 | 3/2/2021 | 4/20/2021 | 10/11/2021 |
| Boron | ug/L | 3900 | 4100 | -- | 4100 | 4300 |
| Calcium | mg/L | 10 | 11 | -- | 11 | 10 |
| Chloride | mg/L | 34 | 31 | -- | 28 | 31 |
| Fluoride | mg/L | <0.23 | <0.23 | -- | 0.38 | <0.28 |
| Field pH | Std. Units | 7.83 | 7.8 | 7.66 | 7.74 | 7.83 |
| Sulfate | mg/L | 110 | 110 | -- | 110 | 140 |
| Total Dissolved Solids | mg/L | 370 | 360 | -- | 330 | 310 |
| Antimony | ug/L | <0.51 | <0.51 | -- | <1.1 | <1.1 |
| Arsenic | ug/L | <0.88 | <0.88 | -- | <0.75 | <0.75 |
| Barium | ug/L | 45 | 47 | -- | 48 | 43 |
| Beryllium | ug/L | <0.27 | <0.27 | -- | <0.27 | <0.27 |
| Cadmium | ug/L | 0.058 | 0.052 | -- | <0.051 | 0.069 |
| Chromium | ug/L | <1.1 | <1.1 | -- | <1.1 | <1.1 |
| Cobalt | ug/L | 0.11 | 0.15 | -- | <0.091 | <0.19 |
| Lead | ug/L | 0.69 | 0.63 | -- | 0.59 | 0.77 |
| Lithium | ug/L | 6.8 | 8.3 | 9.1 | 8.7 | 7.7 |
| Mercury | ug/L | <0.1 | <0.1 | -- | <0.15 | -- |
| Molybdenum | ug/L | 110 | 120 | 120 | 120 | 110 |
| Selenium | ug/L | <1 | <1 | -- | <0.96 | <0.96 |
| Thallium | ug/L | <0.26 | -- | -- | <0.26 | <0.26 |
| Total Radium | pCi/L | 0.605 | 0.412 | -- | 0.307 | 0.981 |
| Radium-226 | pCi/L | 0.168 | 0.169 | -- | 0.133 | 0.0614 |
| Radium-228 | pCi/L | 0.438 | 0.243 | -- | 0.175 | 0.92 |
| Field Oxidation Potential | mV | -154.2 | -189.9 | -171 | -167.3 | -133.4 |
| Field Specific Conductance | umhos/cm | 585 | 553.6 | 568 | 566 | 551 |
| Field Temperature | deg C | 14.4 | 14.6 | 14 | 13.7 | 14.4 |
| Groundwater Elevation | feet | 519.97 | 519 | 520.52 | 522.39 | 519.09 |
| Oxygen, Dissolved | mg/L | 0.17 | 0.18 | 0.29 | 0.13 | 0.12 |
| Turbidity | NTU | 0 | 2.96 | 0.95 | 2.89 | 7.4 |
| pH at 25 Degrees C | Std. Units | 8 | 7.9 | -- | 8.1 | 7.8 |
| Bicarbonate Alkalinity as CaCO3 | mg/L | -- | 110 | 94 | 93 | 100 |
| Carbonate Alkalinity as CaCO3 | mg/L | -- | <1.9 | <2.3 | <2.3 | <4.6 |
| Iron, dissolved | ug/L | -- | 460 | 450 | 430 | 390 |
| Manganese, dissolved | ug/L | -- | 420 | 360 | 390 | 390 |
| Molybdenum, dissolved | ug/L | -- | 120 | 120 | 120 | 120 |
| Total Alkalinity as CaCO3 | mg/L | -- | 110 | 94 | 93 | 100 |
| Iron, total | ug/L | -- | 610 | 510 | 500 | 450 |
| Magnesium, total | ug/L | -- | 1700 | 1500 | 1600 | 1500 |
| Manganese, total | ug/L | -- | 430 | 360 | 410 | 390 |
| Potassium, total | ug/L | -- | 3100 | 3200 | 3100 | 2800 |
| Sodium, total | ug/L | -- | 110000 | 110000 | 110000 | 100000 |
| Lithium, dissolved | ug/L | -- | -- | 9.6 | 8.3 | 6.9 |

Single Location**Name: IPL - Burlington**

| Location ID: MW-307B | | | |
|---------------------------------|------------|----------|------------|
| Number of Sampling Dates: 2 | | | |
| Parameter Name | Units | 7/1/2021 | 10/11/2021 |
| Boron | ug/L | 4700 | 2700 |
| Calcium | mg/L | 75 | 66 |
| Chloride | mg/L | 28 | 18 |
| Fluoride | mg/L | <0.28 | <0.28 |
| Field pH | Std. Units | 7.67 | 7.72 |
| Sulfate | mg/L | 110 | 77 |
| Total Dissolved Solids | mg/L | 330 | 230 |
| Antimony | ug/L | <1.1 | <1.1 |
| Arsenic | ug/L | <0.75 | <0.75 |
| Barium | ug/L | 260 | 310 |
| Beryllium | ug/L | <0.27 | <0.27 |
| Cadmium | ug/L | <0.051 | 0.065 |
| Chromium | ug/L | <1.1 | <1.1 |
| Cobalt | ug/L | 0.26 | <0.19 |
| Lead | ug/L | <0.21 | <0.21 |
| Lithium | ug/L | 9.6 | 7 |
| Mercury | ug/L | <0.15 | -- |
| Molybdenum | ug/L | 40 | 25 |
| Selenium | ug/L | <0.96 | <0.96 |
| Thallium | ug/L | <0.26 | <0.26 |
| Total Radium | pCi/L | 0.955 | 1.38 |
| Radium-226 | pCi/L | 0.289 | 0.377 |
| Radium-228 | pCi/L | 0.666 | 1.01 |
| Field Oxidation Potential | mV | -76.5 | -130.6 |
| Field Specific Conductance | umhos/cm | 587.1 | 459.6 |
| Field Temperature | deg C | 15.3 | 14.4 |
| Groundwater Elevation | feet | 520.12 | 519.13 |
| Oxygen, Dissolved | mg/L | 0.41 | 0.1 |
| Turbidity | NTU | 1.26 | 10.1 |
| pH at 25 Degrees C | Std. Units | 7.6 | 7.6 |
| Bicarbonate Alkalinity as CaCO3 | mg/L | 150 | 160 |
| Carbonate Alkalinity as CaCO3 | mg/L | <4.6 | <4.6 |
| Iron, dissolved | ug/L | 1700 | 1200 |
| Manganese, dissolved | ug/L | 800 | 330 |
| Molybdenum, dissolved | ug/L | 40 | 28 |
| Total Alkalinity as CaCO3 | mg/L | 150 | 160 |
| Iron, total | ug/L | 2100 | 1300 |
| Magnesium, total | ug/L | 15000 | 16000 |
| Manganese, total | ug/L | 850 | 310 |
| Potassium, total | ug/L | 3000 | 1600 |
| Sodium, total | ug/L | 23000 | 16000 |
| Lithium, dissolved | ug/L | 9.5 | 7 |

Single Location
Name: IPL - Burlington

| Location ID: MW-308 | | Number of Sampling Dates: 20 | | | | | | | | | | | | | | | | | | | | |
|---------------------------------|------------|------------------------------|----------|-----------|-----------|-----------|----------|-----------|-----------|------------|----------|-----------|------------|-----------|----------|------------|--------------|------------|----------|-----------|------------|-------|
| Parameter Name | Units | 4/21/2016 | 6/6/2016 | 8/17/2016 | 10/3/2016 | 1/10/2017 | 4/4/2017 | 6/13/2017 | 8/16/2017 | 10/17/2017 | 5/8/2018 | 8/13/2018 | 10/10/2018 | 3/12/2019 | 4/3/2019 | 10/10/2019 | 6/4/2020 | 10/14/2020 | 3/2/2021 | 4/20/2021 | 10/12/2021 | |
| Boron | ug/L | 4960 | 4980 | 4870 | 4760 | 4980 | 5160 | 4680 | 4910 | 4850 | 5030 | 5070 | 4710 | -- | 4300 | 4500 | 4700 | 4500 | -- | 4300 | 3900 | |
| Calcium | mg/L | 39.8 | 36.8 | 35.1 | 33.5 | 33.2 | 34.2 | 30.1 | 32.3 | 32.6 | 28.7 | 28.7 | 28.5 | -- | 32 | 30 | 34 | 37 | -- | 38 | 38 | |
| Chloride | mg/L | 72.3 | 65.7 | 53.1 | 47.8 | 43.5 | 42.6 | 40.6 | 39.8 | 38.2 | 36.2 | 36.7 | 35.9 | -- | 38 | 40 | 58 | 45 | -- | 39 | 41 | |
| Fluoride | mg/L | 0.16 | 0.095 | 0.078 | 0.13 | 0.084 | 0.11 | 0.12 | 0.14 | 0.17 | 0.17 | 0.16 | <0.19 | -- | 0.37 | <0.23 | 0.37 | <0.23 | -- | <0.28 | <0.28 | |
| Field pH | Std. Units | 9.77 | 9.76 | 9.95 | 10.17 | 10.21 | 10.34 | 9.99 | 10.15 | 9.75 | 9.75 | 9.86 | 9.82 | 7.72 | 9.97 | 9.42 | 9.65 | 9.7 | 9.4 | 9.56 | 9.97 | |
| Sulfate | mg/L | 222 | 187 | 180 | 194 | 192 | 175 | 188 | 181 | 177 | 164 | 167 | 193 | -- | 170 | 160 | 190 | 160 | -- | 140 | 190 | |
| Total Dissolved Solids | mg/L | 577 | 548 | 541 | 495 | 474 | 494 | 501 | 483 | 472 | 494 | 468 | 440 | -- | 490 | 400 | 470 | 460 | -- | 430 | 410 | |
| Antimony | ug/L | 0.29 | 0.34 | 0.22 | 0.38 | 0.33 | 0.28 | 0.32 | 0.3 | -- | 0.32 | 0.32 | 0.36 | -- | <0.53 | <0.53 | <0.58 | <0.51 | -- | <1.1 | <1.1 | |
| Arsenic | ug/L | 83.8 | 80.5 | 84.2 | 82.6 | 86.4 | 83.1 | 80.3 | 77.9 | -- | 79.1 | 82.5 | 79.5 | -- | 78 | 72 | 76 | 69 | -- | 73 | 59 | |
| Barium | ug/L | 130 | 110 | 110 | 89.8 | 90.6 | 85.1 | 81.5 | 76.2 | -- | 64.3 | 67.1 | 66.5 | -- | 70 | 70 | 66 | 74 | -- | 79 | 82 | |
| Beryllium | ug/L | <0.08 | <0.08 | <0.08 | <0.08 | <0.08 | 0.017 | <0.012 | <0.012 | -- | <0.012 | <0.12 | <0.089 | -- | <0.27 | <0.27 | <0.27 | <0.27 | -- | <0.27 | <0.27 | |
| Cadmium | ug/L | <0.029 | <0.029 | <0.029 | 0.097 | 0.034 | <0.018 | 0.035 | <0.018 | -- | 0.02 | <0.07 | 0.058 | -- | <0.077 | <0.039 | 0.044 | <0.049 | -- | <0.051 | <0.051 | |
| Chromium | ug/L | 0.46 | 0.41 | 0.52 | <0.34 | 0.37 | 0.22 | 0.16 | 0.38 | -- | 0.25 | <0.19 | 0.16 | -- | <0.98 | <0.98 | <1.1 | <1.1 | -- | <1.1 | <1.1 | |
| Cobalt | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.06 | 0.068 | 0.069 | -- | 0.057 | <0.15 | 0.074 | -- | <0.091 | <0.091 | <0.091 | <0.091 | -- | <0.091 | <0.19 | |
| Lead | ug/L | 0.33 | <0.19 | <0.19 | 0.28 | 0.27 | 0.21 | 0.34 | 0.33 | -- | 0.25 | 0.27 | 0.45 | -- | <0.27 | <0.27 | 0.4 | 0.15 | -- | <0.21 | <0.21 | |
| Lithium | ug/L | 45.6 | 45.8 | 41.5 | 41.2 | 47 | 46.9 | 42.4 | 44.1 | -- | 46 | 52 | 43.6 | 48.9 | 50 | 52 | 48 | 51 | -- | 54 | 58 | |
| Mercury | ug/L | <0.046 | <0.039 | <0.039 | <0.039 | <0.055 | 0.047 | <0.046 | <0.046 | -- | <0.09 | -- | <0.09 | -- | <0.1 | -- | 0.13 | <0.1 | -- | <0.15 | -- | |
| Molybdenum | ug/L | 153 | 139 | 133 | 138 | 140 | 140 | 136 | 137 | -- | 140 | 140 | 145 | 135 | 110 | 120 | 120 | 110 | -- | 120 | 81 | |
| Selenium | ug/L | 0.69 | 0.47 | 0.58 | 0.45 | 0.68 | 0.4 | 0.3 | 0.47 | -- | 0.31 | 0.43 | 0.4 | -- | <1 | <1 | <1 | <1 | -- | <0.96 | <0.96 | |
| Thallium | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.036 | <0.036 | <0.036 | -- | <0.036 | -- | <0.099 | -- | <0.27 | -- | <0.26 | -- | -- | <0.26 | <0.26 | |
| Total Radium | pCi/L | 0.712 | 1.22 | 0.376 | 0.549 | 0 | 0.854 | 0.881 | 0.229 | -- | 0.283 | 0.0726 | 0.334 | -- | 0.328 | 0.288 | <0.42/0.268 | 0.106 | -- | 0.0966 | -0.00135 | |
| Radium-226 | pCi/L | 0.0744 | 0 | 0.0777 | 0.312 | 0 | 0.213 | 0.4 | 0.063 | -- | 0.182 | 0.0726 | 0.275 | -- | 0.0363 | 0.202 | <0.118/0.109 | -0.0615 | -- | -0.0307 | -0.00135 | |
| Radium-228 | pCi/L | 0.638 | 1.22 | 0.298 | 0.237 | -0.059 | 0.641 | 0.481 | 0.166 | -- | 0.101 | -0.068 | 0.0585 | -- | 0.291 | 0.0862 | <0.42/0.159 | 0.106 | -- | 0.0966 | 0 | |
| Collected By | | -- | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | -- | -- | -- | 0 | -- | -- | -- | -- | -- | -- | -- | |
| Field Oxidation Potential | mV | -77.2 | -149 | -213.7 | -239.6 | -163.8 | -300.6 | -162.3 | -139.8 | -109.4 | -158.2 | -238 | -201 | -60.7 | -142.3 | -82.6 | 28 | -264.6 | -207.2 | -172.9 | -219.8 | |
| Field Specific Conductance | umhos/cm | 712 | 1678 | 1533 | 1306 | 1303 | 1258 | 514.6 | 1039 | 689 | 698 | 710 | 709 | 500 | 681 | 671 | 713 | 682 | 695 | 690 | 728 | |
| Field Temperature | deg C | 14.2 | 14.2 | 14.3 | 14.6 | 13.7 | 14.1 | 14.9 | 14.5 | 14.6 | 14.4 | 15.4 | 15.3 | 14.06 | 14.04 | 14.64 | 15.4 | 14.7 | 13.9 | 14.1 | 15 | |
| Groundwater Elevation | feet | 521.93 | 521.43 | 521.56 | 527.62 | 525.65 | 523.07 | 522.9 | 519.8 | 522.46 | 525.62 | 520.22 | 528.98 | 523.13 | 528.39 | -- | 524.1 | 519.02 | 520.7 | 522.57 | 519.25 | |
| Oxygen, Dissolved | mg/L | 0.09 | 0.81 | 0.16 | 0.55 | 0.11 | 0.16 | 0.2 | 0.21 | 0.09 | 1.5 | 0.11 | 0.2 | 2.57 | 1.16 | 0.21 | 0.23 | 0.1 | 0.11 | 0.08 | 0.06 | |
| Turbidity | NTU | 1.83 | 0.42 | 0.34 | 0.73 | 1.27 | 0.43 | 1.56 | 0.61 | 0.6 | 1.26 | 4.63 | 1.35 | 1.68 | 1.66 | 2.93 | 13.38 | 0.15 | 0.02 | 1.77 | 8.8 | |
| Collected Date | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 3 | -- | -- | -- | -- | -- | -- | -- | |
| Collected Time | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 9 | -- | -- | -- | -- | -- | -- | -- | |
| pH at 25 Degrees C | Std. Units | 9.4 | 9.6 | 9.3 | 9.7 | 9.4 | 9.2 | 9.5 | 9.4 | 9.4 | 9.4 | 9.4 | 9.5 | -- | 9.6 | 9.9 | 9.6 | 9.6 | -- | 9.8 | 10 | |
| Bicarbonate Alkalinity as CaCO3 | mg/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 54 | 69 | 38 | 4.7 | |
| Carbonate Alkalinity as CaCO3 | mg/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 89 | 39 | 75 | 95 | |
| Iron, dissolved | ug/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <50 | <36 | <36 | <36 | |
| Manganese, dissolved | ug/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 290 | 210 | 250 | 30 | |
| Molybdenum, dissolved | ug/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 110 | 110 | 110 | 82 | |
| Total Alkalinity as CaCO3 | mg/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 140 | 110 | 110 | 99 | |
| Iron, total | ug/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <50 | <36 | <36 | <36 | |
| Magnesium, total | ug/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1700 | 1600 | 1800 | 420 | |
| Manganese, total | ug/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 280 | 210 | 250 | 32 | |
| Potassium, total | ug/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 35000 | 37000 | 40000 |
| Sodium, total | ug/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 84000 | 85000 | 88000 | 79000 | |
| Lithium, dissolved | ug/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 53 | 54 | 51 | 57 | |

Single Location
Name: IPL - Burlington

| Location ID: MW-310 | | Number of Sampling Dates: 18 | | | | | | | | | | | | | | | | | |
|---------------------------------|------------|------------------------------|----------|-----------|-----------|----------|----------|-----------|-----------|------------|----------|-----------|------------|----------|------------|-------------|------------|-----------|------------|
| Parameter Name | Units | 4/21/2016 | 6/7/2016 | 8/16/2016 | 10/3/2016 | 1/9/2017 | 4/4/2017 | 6/12/2017 | 8/16/2017 | 10/16/2017 | 5/8/2018 | 8/14/2018 | 10/10/2018 | 4/4/2019 | 10/11/2019 | 6/2/2020 | 10/14/2020 | 4/19/2021 | 10/12/2021 |
| Boron | ug/L | 437 | 422 | 326 | 400 | 413 | 503 | 2210 | 365 | 305 | 217 | 256 | 268 | 560 | 380 | 500 | 290 | 220 | 310 |
| Calcium | mg/L | 166 | 181 | 140 | 167 | 145 | 180 | 116 | 139 | 105 | 104 | 102 | 107 | 120 | 120 | 130 | 92 | 190 | 84 |
| Chloride | mg/L | 154 | 196 | 96.9 | 143 | 113 | 187 | 94.7 | 121 | 38.3 | 24.4 | 33.8 | 67.1 | 88 | 59 | 87 | 17 | 16 | 14 |
| Fluoride | mg/L | 0.39 | 0.28 | 0.29 | 0.34 | 0.33 | 0.26 | 0.32 | 0.32 | 0.39 | 0.33 | 0.39 | 0.4 | 0.55 | 0.34 | 0.65 | <0.23 | 0.37 | <0.28 |
| Field pH | Std. Units | 7.37 | 7.21 | 7.7 | 7.71 | 7.38 | 7.5 | 7.3 | 7.5 | 7.92 | 7.46 | 7.44 | 7.2 | 7.84 | 6.95 | 7.3 | 7.34 | 7.21 | 7.22 |
| Sulfate | mg/L | 53.1 | 47.7 | 54 | 62.6 | 48.5 | 34.3 | 101 | 41.3 | 35.1 | 28.8 | 27.2 | 37.9 | 21 | 51 | 100 | 19 | 55 | 55 |
| Total Dissolved Solids | mg/L | 879 | 1040 | 703 | 743 | 653 | 853 | 625 | 760 | 445 | 462 | 472 | 512 | 600 | 410 | 590 | 390 | 370 | 280 |
| Antimony | ug/L | <0.058 | 0.12 | <0.058 | 0.099 | <0.058 | 0.032 | 0.048 | 0.1 | -- | <0.026 | <0.15 | <0.078 | <0.53 | <0.53 | <0.58 | 1.9 | <1.1 | <1.1 |
| Arsenic | ug/L | 60.6 | 60.2 | 64.1 | 74 | 72.6 | 79.8 | 64 | 68.2 | -- | 57.8 | 56.2 | 62.1 | 65 | 55 | 55 | 63 | 16 | 63 |
| Barium | ug/L | 813 | 829 | 589 | 734 | 605 | 825 | 586 | 665 | -- | 403 | 398 | 450 | 560 | 500 | 550 | 400 | 280 | 290 |
| Beryllium | ug/L | <0.08 | <0.08 | <0.08 | <0.08 | <0.08 | 0.019 | <0.012 | <0.012 | -- | <0.012 | <0.12 | <0.089 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 |
| Cadmium | ug/L | <0.029 | <0.029 | <0.029 | <0.029 | <0.029 | <0.018 | 0.025 | <0.018 | -- | <0.018 | <0.07 | <0.033 | <0.077 | <0.039 | <0.039 | <0.049 | <0.051 | <0.051 |
| Chromium | ug/L | <0.34 | <0.34 | 0.85 | 0.5 | 0.45 | 0.19 | 0.2 | 0.52 | -- | 0.16 | <0.19 | 0.082 | <0.98 | <0.98 | <1.1 | <1.1 | <1.1 | <1.1 |
| Cobalt | ug/L | 2.6 | 2.7 | 1.8 | 2 | 1.6 | 1.9 | 1.4 | 1.8 | -- | 1.2 | 1.4 | 1.4 | 1.9 | 1.9 | 2.3 | 1.5 | 0.29 | 1.4 |
| Lead | ug/L | <0.19 | <0.19 | <0.19 | <0.19 | <0.19 | <0.033 | 0.081 | 0.64 | -- | 0.044 | <0.12 | <0.13 | <0.27 | <0.27 | <0.27 | <0.11 | <0.21 | <0.21 |
| Lithium | ug/L | <4.9 | <4.9 | <9.8 | <4.9 | <4.9 | <2.9 | <2.9 | 7.7 | -- | <4.6 | 5.3 | <4.6 | <2.7 | <2.7 | <2.3 | <2.5 | <2.5 | <2.5 |
| Mercury | ug/L | <0.046 | <0.039 | <0.039 | <0.039 | <0.055 | <0.046 | <0.046 | <0.046 | -- | <0.09 | -- | <0.09 | <0.1 | -- | <0.1 | <0.1 | <0.15 | -- |
| Molybdenum | ug/L | 5.1 | 3.9 | 4.4 | 4.8 | 4.4 | 3.4 | 10 | 4.1 | -- | 4.2 | 4 | 4.6 | 5.2 | 6 | 5.8 | 3.6 | 14 | 4.9 |
| Selenium | ug/L | <0.18 | <0.18 | <0.18 | <0.18 | <0.18 | 0.24 | 0.18 | 0.2 | -- | 0.14 | <0.16 | 0.19 | <1 | <1 | <1 | <1 | <0.96 | <0.96 |
| Thallium | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.036 | <0.036 | 0.35 | -- | <0.036 | -- | <0.099 | <0.27 | -- | <0.26 | -- | <0.26 | <0.26 |
| Total Radium | pCi/L | 2.41 | 1.28 | 1.99 | 1.34 | 0.941 | 3.17 | 1.7 | 2.21 | -- | 0.755 | 1.55 | 2.56 | 1.19 | 0.49 | 0.844/0.844 | 0.552 | 0.869 | 1.25 |
| Radium-226 | pCi/L | 0.951 | 0.839 | 0.644 | 0.796 | 0.527 | 0.175 | 0.505 | 0.793 | -- | 0 | 0.616 | 1.1 | 0.471 | 0.473 | 0.457/0.457 | 0.333 | 0.41 | 0.161 |
| Radium-228 | pCi/L | 1.46 | 0.437 | 1.35 | 0.54 | 0.414 | 2.99 | 1.19 | 1.42 | -- | 0.755 | 0.938 | 1.46 | 0.724 | 0.0174 | 0.387/0.387 | 0.219 | 0.46 | 1.09 |
| Collected By | | -- | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Field Oxidation Potential | mV | -125.4 | -122 | -172.9 | -184 | -161.2 | -175.4 | -101.1 | 102.8 | -63.6 | -198.8 | -194 | -166 | -175.8 | -189.7 | 38.6 | -223.6 | -193.2 | -181.6 |
| Field Specific Conductance | umhos/cm | 1082 | 3170 | 2224 | 2295 | 2116 | 2528 | 742 | 1783 | 791 | 594.6 | 840 | 938 | 1034 | 961 | 881 | 711 | 735 | 668 |
| Field Temperature | deg C | 11.7 | 12.2 | 15.1 | 16.6 | 14.3 | 12 | 13.5 | 15.4 | 16.6 | 11.1 | 15 | 17 | 10.8 | 15.88 | 12.8 | 16.4 | 10.8 | 17.3 |
| Groundwater Elevation | feet | 525.43 | 524.13 | 524.84 | 527.58 | 525.78 | 525.52 | 524.94 | 523.89 | 525.49 | 525.79 | 523.69 | 529 | 528.62 | -- | 525.36 | 523.81 | 525.46 | 524.69 |
| Oxygen, Dissolved | mg/L | 0.19 | 0.98 | 2.4 | 0.43 | 0.19 | 0.2 | 0.13 | 0.21 | 0.16 | 0.14 | 0.05 | 0.1 | 1.12 | 0.28 | 0.13 | 0.08 | 0.17 | 0.18 |
| Turbidity | NTU | 3 | 0.2 | 0.83 | 4.23 | 4.64 | 2.23 | 2.55 | 1.2 | 2.86 | 12.81 | 3.11 | 0 | 16.7 | 5.23 | 17.82 | 3.79 | 2.57 | 11.4 |
| pH at 25 Degrees C | Std. Units | 7.1 | 7 | 7 | 7.2 | 7.2 | 7.3 | 6.9 | 7.1 | 7.1 | 7.4 | 7.3 | 7.1 | 7 | 7.2 | 7.1 | 7.2 | 7.3 | 7.2 |
| Bicarbonate Alkalinity as CaCO3 | mg/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 330 | 310 | 280 |
| Carbonate Alkalinity as CaCO3 | mg/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <3.8 | <4.6 | <4.6 |
| Iron, dissolved | ug/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 16000 | 20000 | 15000 |
| Manganese, dissolved | ug/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 4000 | 4200 | 3900 |
| Molybdenum, dissolved | ug/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 5.2 |
| Total Alkalinity as CaCO3 | mg/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 330 | 310 | 280 |
| Iron, total | ug/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 18000 | 20000 | 15000 |
| Magnesium, total | ug/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 24000 | 25000 | 20000 |
| Manganese, total | ug/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 4400 | 4300 | 3900 |
| Potassium, total | ug/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 2700 | 2100 | 2100 |
| Sodium, total | ug/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 13000 | 11000 | 12000 |

Single Location

Name: IPL - Burlington

| Location ID: MW-310A | | | | | | |
|---------------------------------|------------|----------|------------|----------|-----------|------------|
| Number of Sampling Dates: 5 | | | | | | |
| Parameter Name | Units | 9/9/2020 | 10/16/2020 | 3/3/2021 | 4/20/2021 | 10/14/2021 |
| Boron | ug/L | 2200 | 1200 | -- | 1100 | 940 |
| Calcium | mg/L | 150 | 62 | -- | 52 | 51 |
| Chloride | mg/L | 18 | 16 | -- | 14 | 14 |
| Fluoride | mg/L | 0.27 | <0.23 | -- | 0.44 | 0.75 |
| Field pH | Std. Units | 7.33 | -- | 7.22 | 7.41 | 7.07 |
| Sulfate | mg/L | 100 | 130 | -- | 120 | 99 |
| Total Dissolved Solids | mg/L | 570 | 620 | -- | 660 | 520 |
| Antimony | ug/L | 1.1 | 1.5 | -- | <1.1 | <1.1 |
| Arsenic | ug/L | 15 | 5.1 | -- | 3.5 | 3.6 |
| Barium | ug/L | 290 | 90 | -- | 75 | 64 |
| Beryllium | ug/L | 2.3 | <0.27 | -- | <0.27 | <0.27 |
| Cadmium | ug/L | 0.69 | 0.062 | -- | <0.051 | <0.051 |
| Chromium | ug/L | 5.4 | <1.1 | -- | 1.5 | <1.1 |
| Cobalt | ug/L | 28 | 3.4 | -- | 3 | 3 |
| Lead | ug/L | 20 | 3.5 | -- | 2.8 | 3.3 |
| Lithium | ug/L | 32 | 36 | -- | 40 | 34 |
| Mercury | ug/L | <0.1 | <0.1 | -- | <0.15 | -- |
| Molybdenum | ug/L | 19 | 33 | -- | 24 | 20 |
| Selenium | ug/L | 1.5 | <1 | -- | <0.96 | <0.96 |
| Thallium | ug/L | <0.26 | -- | -- | <0.26 | <0.26 |
| Total Radium | pCi/L | 4.91 | 0.878 | -- | 2.51 | 4.2 |
| Radium-226 | pCi/L | 2.48 | 0.662 | -- | 1.04 | 1.44 |
| Radium-228 | pCi/L | 2.44 | 0.215 | -- | 1.47 | 2.76 |
| Field Oxidation Potential | mV | 145.3 | -- | 145.9 | 55 | 153.3 |
| Field Specific Conductance | umhos/cm | 1026 | -- | 1051 | 1042 | 842 |
| Field Temperature | deg C | 14.2 | -- | 13.2 | 11.7 | 15.5 |
| Groundwater Elevation | feet | 509.16 | 489.84 | 487.06 | 521.12 | 521.83 |
| Oxygen, Dissolved | mg/L | 4.68 | -- | 3.1 | 3.69 | 2.04 |
| Turbidity | NTU | 714.3 | -- | -- | 0 | 80 |
| pH at 25 Degrees C | Std. Units | 7.7 | 7.6 | -- | 7.6 | 6.5 |
| Bicarbonate Alkalinity as CaCO3 | mg/L | -- | 410 | 400 | 410 | 440 |
| Carbonate Alkalinity as CaCO3 | mg/L | -- | <3.8 | <2.3 | <4.6 | <4.6 |
| Iron, dissolved | ug/L | -- | <50 | 2100 | <36 | <36 |
| Manganese, dissolved | ug/L | -- | 420 | 300 | 240 | 170 |
| Molybdenum, dissolved | ug/L | -- | -- | -- | -- | 21 |
| Total Alkalinity as CaCO3 | mg/L | -- | 410 | 400 | 410 | 440 |
| Iron, total | ug/L | -- | 1600 | 1900 | 1000 | 950 |
| Magnesium, total | ug/L | -- | 25000 | 25000 | 21000 | 20000 |
| Manganese, total | ug/L | -- | 470 | 330 | 250 | 270 |
| Potassium, total | ug/L | -- | 6900 | 6600 | 5900 | 5200 |
| Sodium, total | ug/L | -- | 140000 | 170000 | 180000 | 140000 |
| Lithium, dissolved | ug/L | -- | -- | -- | -- | 32 |

Single Location

Name: IPL - Burlington

| Location ID: MW-312 | | Number of Sampling Dates: 7 | | | | | | | |
|---------------------------------|------------|-----------------------------|------------|--------------|------------|----------|-----------|------------|--|
| Parameter Name | Units | 6/6/2019 | 10/10/2019 | 6/3/2020 | 10/15/2020 | 3/1/2021 | 4/19/2021 | 10/14/2021 | |
| Boron | ug/L | 6100 | 6600 | 6700 | 6500 | -- | 5800 | 5300 | |
| Calcium | mg/L | 67 | 71 | 74 | 78 | -- | 84 | 70 | |
| Chloride | mg/L | 27 | 25 | 36 | 23 | -- | 20 | 24 | |
| Fluoride | mg/L | 1.1 | 0.25 | 0.57 | <0.23 | -- | 0.33 | <0.28 | |
| Field pH | Std. Units | 6.99 | 7.19 | 7.13 | 7.37 | 7.07 | 7.22 | 7.2 | |
| Sulfate | mg/L | 220 | 230 | 200 | 210 | -- | 190 | 190 | |
| Total Dissolved Solids | mg/L | 540 | 510 | 670 | 560 | -- | 540 | 480 | |
| Antimony | ug/L | <0.53 | <0.53 | <0.58 | <0.51 | -- | <1.1 | <1.1 | |
| Arsenic | ug/L | 14 | 15 | 22 | 19 | -- | 18 | 17 | |
| Barium | ug/L | 160 | 150 | 190 | 200 | -- | 200 | 170 | |
| Beryllium | ug/L | <0.27 | <0.54 | <0.27 | <0.27 | -- | <0.27 | <0.27 | |
| Cadmium | ug/L | <0.077 | 0.044 | 0.095 | 0.066 | -- | 0.053 | 0.086 | |
| Chromium | ug/L | <0.98 | <0.98 | <1.1 | <1.1 | -- | <1.1 | <1.1 | |
| Cobalt | ug/L | 0.65 | 0.36 | 0.67 | 0.5 | -- | 0.54 | 0.42 | |
| Lead | ug/L | 0.54 | <0.27 | <0.27 | <0.11 | -- | <0.21 | <0.21 | |
| Lithium | ug/L | 24 | 27 | 22 | 27 | -- | 30 | 24 | |
| Mercury | ug/L | <0.1 | -- | <0.1 | <0.1 | -- | <0.15 | -- | |
| Molybdenum | ug/L | 290 | 280 | 320 | 290 | -- | 310 | 240 | |
| Selenium | ug/L | <1 | <1 | <1 | <1 | -- | <0.96 | <0.96 | |
| Thallium | ug/L | <0.27 | -- | <0.26 | -- | -- | <0.26 | <0.26 | |
| Total Radium | pCi/L | 0.875 | 0.438 | 0.543/0.543 | 0.627 | -- | 0.218 | 0.071 | |
| Radium-226 | pCi/L | 0.301 | 0.433 | 0.356/0.356 | 0.443 | -- | 0.218 | 0.123 | |
| Radium-228 | pCi/L | 0.574 | 0.00445 | <0.323/0.187 | 0.184 | -- | -0.00944 | -0.0521 | |
| Field Oxidation Potential | mV | -146.4 | -163.8 | 53.3 | -203.1 | -192.4 | -162.9 | -143.4 | |
| Field Specific Conductance | umhos/cm | 783 | 785 | 878 | 854 | 814 | 875 | 688 | |
| Field Temperature | deg C | 14.4 | 15.6 | 14.7 | 15.1 | 14.1 | 13.7 | 15.7 | |
| Groundwater Elevation | feet | -- | -- | 524.05 | 518.68 | 520.12 | 522.2 | 518.78 | |
| Oxygen, Dissolved | mg/L | 0.12 | 8.75 | 0.17 | 0.13 | 0.14 | 0.12 | 0.2 | |
| Turbidity | NTU | 2.86 | 2.56 | 21.16 | 0.02 | 0.89 | 8.82 | 13.1 | |
| pH at 25 Degrees C | Std. Units | 7.5 | 7.3 | 7.1 | 7.2 | -- | 7.4 | 7.2 | |
| Bicarbonate Alkalinity as CaCO3 | mg/L | -- | -- | -- | 240 | 190 | 190 | 210 | |
| Carbonate Alkalinity as CaCO3 | mg/L | -- | -- | -- | <3.8 | <4.6 | <4.2 | <4.6 | |
| Iron, dissolved | ug/L | -- | -- | -- | 11000 | 9800 | 11000 | 8500 | |
| Manganese, dissolved | ug/L | -- | -- | -- | 8200 | 7500 | 7800 | 5900 | |
| Molybdenum, dissolved | ug/L | -- | -- | -- | 300 | 300 | 300 | 250 | |
| Total Alkalinity as CaCO3 | mg/L | -- | -- | -- | 240 | 190 | 190 | 210 | |
| Iron, total | ug/L | -- | -- | -- | 11000 | 10000 | 11000 | 8500 | |
| Magnesium, total | ug/L | -- | -- | -- | 12000 | 12000 | 13000 | 9700 | |
| Manganese, total | ug/L | -- | -- | -- | 7900 | 7900 | 8900 | 5900 | |
| Potassium, total | ug/L | -- | -- | -- | 11000 | 13000 | 11000 | 11000 | |
| Sodium, total | ug/L | -- | -- | -- | 73000 | 74000 | 76000 | 68000 | |
| Lithium, dissolved | ug/L | -- | -- | -- | -- | -- | -- | 23 | |

Single Location

Name: IPL - Burlington

| Location ID: MW-313 | | | | | | | | | |
|---------------------------------|------------|----------|------------|-------------|------------|----------|-----------|------------|--|
| Number of Sampling Dates: 7 | | | | | | | | | |
| Parameter Name | Units | 6/6/2019 | 10/10/2019 | 6/3/2020 | 10/15/2020 | 3/2/2021 | 4/19/2021 | 10/13/2021 | |
| Boron | ug/L | 7400 | 8500 | 8600 | 7600 | -- | 6900 | 4800 | |
| Calcium | mg/L | 110 | 120 | 120 | 110 | -- | 120 | 70 | |
| Chloride | mg/L | 85 | 51 | 83 | 50 | -- | 72 | 230 | |
| Fluoride | mg/L | 0.33 | 0.28 | 0.52 | <0.23 | -- | <0.28 | 0.47 | |
| Field pH | Std. Units | 6.94 | 7.06 | 7.03 | 7.16 | 6.98 | 7.09 | 7.25 | |
| Sulfate | mg/L | 210 | 210 | 230 | 170 | -- | 120 | 230 | |
| Total Dissolved Solids | mg/L | 700 | 520 | 830 | 640 | -- | 680 | 740 | |
| Antimony | ug/L | <0.53 | <0.53 | <0.58 | <0.51 | -- | <1.1 | <1.1 | |
| Arsenic | ug/L | 5.5 | 6.3 | 6.9 | 5.5 | -- | 5.2 | 4.7 | |
| Barium | ug/L | 510 | 490 | 680 | 610 | -- | 630 | 390 | |
| Beryllium | ug/L | <0.27 | <1.1 | <0.27 | <0.27 | -- | <0.27 | <0.27 | |
| Cadmium | ug/L | <0.077 | <0.039 | 0.039 | <0.049 | -- | <0.051 | 0.069 | |
| Chromium | ug/L | <0.98 | <0.98 | <1.1 | <1.1 | -- | <1.1 | <1.1 | |
| Cobalt | ug/L | 0.41 | 0.32 | 0.23 | 0.19 | -- | 0.2 | <0.19 | |
| Lead | ug/L | <0.27 | 0.31 | <0.27 | <0.11 | -- | <0.21 | <0.21 | |
| Lithium | ug/L | 43 | 62 | 52 | 51 | -- | 36 | 18 | |
| Mercury | ug/L | <0.1 | -- | 0.13 | <0.1 | -- | <0.15 | -- | |
| Molybdenum | ug/L | 130 | 110 | 130 | 100 | -- | 140 | 170 | |
| Selenium | ug/L | <1 | <1 | <1 | <1 | -- | <0.96 | <0.96 | |
| Thallium | ug/L | <0.27 | -- | <0.26 | -- | -- | <0.26 | <0.26 | |
| Total Radium | pCi/L | 0.987 | 1.7 | 1.81/1.81 | 1.26 | -- | 2.3 | 1.6 | |
| Radium-226 | pCi/L | 0.532 | 0.968 | 1.18/1.18 | 0.52 | -- | 0.861 | 0.524 | |
| Radium-228 | pCi/L | 0.455 | 0.736 | 0.631/0.631 | 0.739 | -- | 1.44 | 1.07 | |
| Field Oxidation Potential | mV | -141.6 | -163.4 | 50.9 | -183.3 | -148 | -152.8 | -117.9 | |
| Field Specific Conductance | umhos/cm | 1059 | 1007 | 1099 | 999 | 1224 | 1165 | 1198 | |
| Field Temperature | deg C | 14.9 | 16.04 | 17.2 | 15.3 | 14.8 | 14.5 | 15.9 | |
| Groundwater Elevation | feet | -- | -- | 524.02 | 518.7 | 520.18 | 522.23 | 518.72 | |
| Oxygen, Dissolved | mg/L | 0.07 | 0.37 | 0.29 | 0.14 | 0.13 | 0.21 | 0.1 | |
| Turbidity | NTU | 7.23 | 11.03 | 50.81 | 14.3 | 7.46 | 4.54 | 24.8 | |
| pH at 25 Degrees C | Std. Units | 7.4 | 7.2 | 7.1 | 7.2 | -- | 7.3 | 7 | |
| Bicarbonate Alkalinity as CaCO3 | mg/L | -- | -- | -- | 380 | 310 | 190 | 110 | |
| Carbonate Alkalinity as CaCO3 | mg/L | -- | -- | -- | <3.8 | <2.3 | <4.6 | <4.6 | |
| Iron, dissolved | ug/L | -- | -- | -- | 14000 | 18000 | 18000 | 9800 | |
| Manganese, dissolved | ug/L | -- | -- | -- | -- | 7300 | 8400 | 4700 | |
| Molybdenum, dissolved | ug/L | -- | -- | -- | 100 | 150 | 140 | 180 | |
| Total Alkalinity as CaCO3 | mg/L | -- | -- | -- | 380 | 310 | 190 | 110 | |
| Iron, total | ug/L | -- | -- | -- | 15000 | 19000 | 18000 | 11000 | |
| Magnesium, total | ug/L | -- | -- | -- | 21000 | 28000 | 29000 | 16000 | |
| Manganese, total | ug/L | -- | -- | -- | 6300 | 8100 | 8700 | 4900 | |
| Potassium, total | ug/L | -- | -- | -- | 14000 | 9500 | 9900 | 5500 | |
| Sodium, total | ug/L | -- | -- | -- | 58000 | 82000 | 75000 | 160000 | |
| Lithium, dissolved | ug/L | -- | -- | -- | 53 | 36 | 36 | 19 | |

Single Location


Name: IPL - Burlington

| Location ID: MW-313A | | | | | | |
|---------------------------------|------------|----------|------------|----------|-----------|------------|
| Number of Sampling Dates: 5 | | | | | | |
| Parameter Name | Units | 9/9/2020 | 10/15/2020 | 3/1/2021 | 4/19/2021 | 10/13/2021 |
| Boron | ug/L | 4300 | 4200 | -- | 4100 | 3500 |
| Calcium | mg/L | 48 | 44 | -- | 42 | 30 |
| Chloride | mg/L | 210 | 200 | -- | 140 | 100 |
| Fluoride | mg/L | <0.23 | <0.23 | -- | 0.46 | 0.38 |
| Field pH | Std. Units | 7.6 | 7.64 | 7.48 | 7.58 | 7.53 |
| Sulfate | mg/L | 200 | 190 | -- | 150 | 140 |
| Total Dissolved Solids | mg/L | 730 | 660 | -- | 580 | 440 |
| Antimony | ug/L | <0.51 | <0.51 | -- | <1.1 | <1.1 |
| Arsenic | ug/L | <0.88 | <0.88 | -- | <0.75 | <0.75 |
| Barium | ug/L | 270 | 270 | -- | 240 | 150 |
| Beryllium | ug/L | <0.27 | <0.27 | -- | <0.27 | <0.27 |
| Cadmium | ug/L | <0.049 | <0.049 | -- | <0.051 | <0.051 |
| Chromium | ug/L | <1.1 | <1.1 | -- | <1.1 | <1.1 |
| Cobalt | ug/L | <0.091 | <0.091 | -- | <0.091 | <0.19 |
| Lead | ug/L | <0.11 | <0.11 | -- | <0.21 | <0.21 |
| Lithium | ug/L | 13 | 13 | 15 | 14 | 11 |
| Mercury | ug/L | <0.1 | <0.1 | -- | <0.15 | -- |
| Molybdenum | ug/L | 120 | 120 | 110 | 100 | 100 |
| Selenium | ug/L | <1 | <1 | -- | <0.96 | <0.96 |
| Thallium | ug/L | <0.26 | -- | -- | <0.26 | <0.26 |
| Total Radium | pCi/L | 1.5 | 0.914 | -- | 1.09 | 1.76 |
| Radium-226 | pCi/L | 0.513 | 0.431 | -- | 0.428 | 0.496 |
| Radium-228 | pCi/L | 0.984 | 0.483 | -- | 0.659 | 1.26 |
| Field Oxidation Potential | mV | -164.4 | -190.1 | -195.9 | -172.1 | -117.7 |
| Field Specific Conductance | umhos/cm | 1243 | 1133 | 927 | 1023 | 757 |
| Field Temperature | deg C | 15.3 | 14.8 | 14.1 | 14.2 | 15.4 |
| Groundwater Elevation | feet | 515.36 | 518.61 | 520.02 | 522.11 | 518.62 |
| Oxygen, Dissolved | mg/L | 0.21 | 0.1 | 0.12 | 0.09 | 0.11 |
| Turbidity | NTU | 0 | 0.02 | 0.78 | 1.71 | 7.7 |
| pH at 25 Degrees C | Std. Units | 7.7 | 7.5 | -- | 7.7 | 7.7 |
| Bicarbonate Alkalinity as CaCO3 | mg/L | -- | 88 | 94 | 97 | 130 |
| Carbonate Alkalinity as CaCO3 | mg/L | -- | <1.9 | <2.3 | <4.3 | <4.6 |
| Iron, dissolved | ug/L | -- | 1700 | 1400 | 1400 | 920 |
| Manganese, dissolved | ug/L | -- | 680 | 530 | 600 | 420 |
| Molybdenum, dissolved | ug/L | -- | 120 | 100 | 100 | 110 |
| Total Alkalinity as CaCO3 | mg/L | -- | 88 | 94 | 97 | 130 |
| Iron, total | ug/L | -- | 1600 | 1400 | 1500 | 960 |
| Magnesium, total | ug/L | -- | 4300 | 3400 | 3900 | 2400 |
| Manganese, total | ug/L | -- | 670 | 530 | 600 | 420 |
| Potassium, total | ug/L | -- | 12000 | 11000 | 11000 | 7600 |
| Sodium, total | ug/L | -- | 160000 | 150000 | 150000 | 130000 |
| Lithium, dissolved | ug/L | -- | -- | 15 | 14 | 10 |

Single Location

Name: IPL - Burlington

| Location ID: MW-313B | | | |
|---------------------------------|------------|----------|------------|
| Number of Sampling Dates: 2 | | | |
| Parameter Name | Units | 7/1/2021 | 10/13/2021 |
| Boron | ug/L | 4300 | 4200 |
| Calcium | mg/L | 70 | 44 |
| Chloride | mg/L | 160 | 89 |
| Fluoride | mg/L | 0.44 | <0.28 |
| Field pH | Std. Units | 7.62 | 7.54 |
| Sulfate | mg/L | 170 | 140 |
| Total Dissolved Solids | mg/L | 620 | 420 |
| Antimony | ug/L | <1.1 | <1.1 |
| Arsenic | ug/L | <0.75 | <0.75 |
| Barium | ug/L | 210 | 170 |
| Beryllium | ug/L | <0.27 | <0.27 |
| Cadmium | ug/L | 0.06 | 0.09 |
| Chromium | ug/L | <1.1 | <1.1 |
| Cobalt | ug/L | 0.25 | <0.19 |
| Lead | ug/L | <0.21 | <0.21 |
| Lithium | ug/L | 18 | 13 |
| Mercury | ug/L | <0.15 | -- |
| Molybdenum | ug/L | 100 | 100 |
| Selenium | ug/L | <0.96 | <0.96 |
| Thallium | ug/L | <0.26 | <0.26 |
| Total Radium | pCi/L | 1 | 0.457 |
| Radium-226 | pCi/L | 0.447 | 0.356 |
| Radium-228 | pCi/L | 0.557 | 0.101 |
| Field Oxidation Potential | mV | -5.1 | -90.8 |
| Field Specific Conductance | umhos/cm | 1052 | 714 |
| Field Temperature | deg C | 15.2 | 15.4 |
| Groundwater Elevation | feet | 519.51 | 518.72 |
| Oxygen, Dissolved | mg/L | 0.37 | 0.09 |
| Turbidity | NTU | 0 | 8.6 |
| pH at 25 Degrees C | Std. Units | 6.4 | 7.7 |
| Bicarbonate Alkalinity as CaCO3 | mg/L | 100 | 140 |
| Carbonate Alkalinity as CaCO3 | mg/L | <4.6 | <4.6 |
| Iron, dissolved | ug/L | 880 | 700 |
| Manganese, dissolved | ug/L | 570 | 390 |
| Molybdenum, dissolved | ug/L | 100 | 110 |
| Total Alkalinity as CaCO3 | mg/L | 100 | 140 |
| Iron, total | ug/L | 990 | 730 |
| Magnesium, total | ug/L | 9500 | 5800 |
| Manganese, total | ug/L | 590 | 410 |
| Potassium, total | ug/L | 9500 | 6800 |
| Sodium, total | ug/L | 130000 | 110000 |
| Lithium, dissolved | ug/L | 18 | 13 |



Appendix E
Statistical Evaluation

- E1 Confidence Limit Analysis
- E2 Upper Prediction Limit Update

E1 Confidence Limit Analysis

Confidence Interval

Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev Printed 12/13/2021, 3:06 PM

| <u>Constituent</u> | <u>Well</u> | <u>Upper Lim.</u> | <u>Lower Lim.</u> | <u>Compliance</u> | <u>Sig.</u> | <u>N</u> | <u>%NDs</u> | <u>ND Adj.</u> | <u>Transform</u> | <u>Alpha</u> | <u>Method</u> |
|--------------------------|----------------|-------------------|-------------------|-------------------|-------------|-----------|-------------|----------------|------------------|--------------|-----------------------|
| Arsenic (ug/L) | MW-301 | 57.44 | 36.27 | 79.8 | No | 9 | 0 | None | No | 0.01 | Param. |
| Arsenic (ug/L) | MW-302 | 94.07 | 54.64 | 79.8 | No | 9 | 0 | None | No | 0.01 | Param. |
| Arsenic (ug/L) | MW-302A | 3.762 | 1.038 | 79.8 | No | 4 | 0 | None | No | 0.01 | Param. |
| Arsenic (ug/L) | MW-303 | 52 | 6.4 | 79.8 | No | 9 | 0 | None | No | 0.002 | NP (normality) |
| Arsenic (ug/L) | MW-304 | 56.1 | 35.65 | 79.8 | No | 9 | 0 | None | No | 0.01 | Param. |
| Arsenic (ug/L) | MW-305 | 0.44 | 0.28 | 79.8 | No | 9 | 66.67 | None | No | 0.002 | NP (normality) |
| Arsenic (ug/L) | MW-306 | 52.01 | 45.59 | 79.8 | No | 9 | 0 | None | No | 0.01 | Param. |
| Arsenic (ug/L) | MW-307 | 53.82 | 41.6 | 79.8 | No | 9 | 0 | None | No | 0.01 | Param. |
| Arsenic (ug/L) | MW-307A | 0.44 | 0.375 | 79.8 | No | 4 | 100 | None | No | 0.0625 | NP (NDs) |
| Arsenic (ug/L) | MW-308 | 81.09 | 67.38 | 79.8 | No | 9 | 0 | None | No | 0.01 | Param. |
| Arsenic (ug/L) | MW-309 | 34.86 | 27.83 | 79.8 | No | 9 | 0 | None | No | 0.01 | Param. |
| Arsenic (ug/L) | MW-310 (bg) | 65 | 16 | 79.8 | No | 9 | 0 | None | No | 0.002 | NP (normality) |
| Arsenic (ug/L) | MW-310A (bg) | 15 | 3.5 | 79.8 | No | 4 | 0 | None | No | 0.0625 | NP (normality) |
| Arsenic (ug/L) | MW-311 (bg) | 55 | 14 | 79.8 | No | 9 | 0 | None | No | 0.002 | NP (normality) |
| Arsenic (ug/L) | MW-312 | 21.46 | 13.54 | 79.8 | No | 6 | 0 | None | No | 0.01 | Param. |
| Arsenic (ug/L) | MW-313 | 6.77 | 4.597 | 79.8 | No | 6 | 0 | None | No | 0.01 | Param. |
| Arsenic (ug/L) | MW-313A | 0.44 | 0.375 | 79.8 | No | 4 | 100 | None | No | 0.0625 | NP (NDs) |
| Lithium (ug/L) | MW-301 | 22.16 | 10.55 | 40 | No | 9 | 0 | None | No | 0.01 | Param. |
| Lithium (ug/L) | MW-302 | 63.87 | 57.03 | 40 | Yes | 10 | 0 | None | No | 0.01 | Param. |
| Lithium (ug/L) | MW-302A | 12.35 | 9.486 | 40 | No | 5 | 0 | None | No | 0.01 | Param. |
| Lithium (ug/L) | MW-303 | 59.28 | 43.16 | 40 | Yes | 10 | 0 | None | No | 0.01 | Param. |
| Lithium (ug/L) | MW-304 | 76.09 | 39.99 | 40 | No | 10 | 0 | None | No | 0.01 | Param. |
| Lithium (ug/L) | MW-305 | 33.84 | 27.05 | 40 | No | 9 | 0 | None | No | 0.01 | Param. |
| Lithium (ug/L) | MW-306 | 45.17 | 39.63 | 40 | No | 10 | 0 | None | No | 0.01 | Param. |
| Lithium (ug/L) | MW-307 | 52.95 | 47.45 | 40 | Yes | 10 | 0 | None | No | 0.01 | Param. |
| Lithium (ug/L) | MW-307A | 9.63 | 6.61 | 40 | No | 5 | 0 | None | No | 0.01 | Param. |
| Lithium (ug/L) | MW-308 | 53.99 | 46.71 | 40 | Yes | 10 | 0 | None | No | 0.01 | Param. |
| Lithium (ug/L) | MW-309 | 3.464 | 2.416 | 40 | No | 9 | 55.56 | Kapla... | No | 0.01 | Param. |
| Lithium (ug/L) | MW-310 (bg) | 5.3 | 2.3 | 40 | No | 9 | 88.89 | Kapla... | No | 0.002 | NP (NDs) |
| Lithium (ug/L) | MW-310A (bg) | 43.25 | 27.75 | 40 | No | 4 | 0 | None | No | 0.01 | Param. |
| Lithium (ug/L) | MW-311 (bg) | 4.6 | 2.3 | 40 | No | 9 | 100 | None | No | 0.002 | NP (NDs) |
| Lithium (ug/L) | MW-312 | 29.62 | 21.72 | 40 | No | 6 | 0 | None | No | 0.01 | Param. |
| Lithium (ug/L) | MW-313 | 64.75 | 22.59 | 40 | No | 6 | 0 | None | No | 0.01 | Param. |
| Lithium (ug/L) | MW-313A | 15.69 | 10.71 | 40 | No | 5 | 0 | None | No | 0.01 | Param. |
| Molybdenum (ug/L) | MW-301 | 112.9 | 57.99 | 100 | No | 10 | 0 | None | No | 0.01 | Param. |
| Molybdenum (ug/L) | MW-302 | 131.4 | 103.6 | 100 | Yes | 10 | 0 | None | No | 0.01 | Param. |
| Molybdenum (ug/L) | MW-302A | 123.8 | 78.24 | 100 | No | 5 | 0 | None | No | 0.01 | Param. |
| Molybdenum (ug/L) | MW-303 | 110 | 64.6 | 100 | No | 9 | 0 | None | No | 0.01 | Param. |
| Molybdenum (ug/L) | MW-304 | 113 | 49.11 | 100 | No | 10 | 0 | None | No | 0.01 | Param. |
| Molybdenum (ug/L) | MW-305 | 1 | 0.55 | 100 | No | 8 | 62.5 | None | No | 0.004 | NP (normality) |
| Molybdenum (ug/L) | MW-306 | 87 | 69 | 100 | No | 9 | 0 | None | No | 0.002 | NP (normality) |
| Molybdenum (ug/L) | MW-307 | 157.2 | 112.6 | 100 | Yes | 10 | 0 | None | No | 0.01 | Param. |
| Molybdenum (ug/L) | MW-307A | 120 | 110 | 100 | Yes | 5 | 0 | None | No | 0.031 | NP (normality) |
| Molybdenum (ug/L) | MW-308 | 139.3 | 104.9 | 100 | Yes | 10 | 0 | None | No | 0.01 | Param. |
| Molybdenum (ug/L) | MW-309 | 86.73 | 42.38 | 100 | No | 9 | 0 | None | No | 0.01 | Param. |
| Molybdenum (ug/L) | MW-310 (bg) | 14 | 3.6 | 100 | No | 9 | 0 | None | No | 0.002 | NP (normality) |
| Molybdenum (ug/L) | MW-310A (bg) | 38.48 | 9.522 | 100 | No | 4 | 0 | None | No | 0.01 | Param. |
| Molybdenum (ug/L) | MW-311 (bg) | 17.69 | 6.822 | 100 | No | 9 | 0 | None | No | 0.01 | Param. |
| Molybdenum (ug/L) | MW-312 | 326.6 | 250 | 100 | Yes | 6 | 0 | None | No | 0.01 | Param. |
| Molybdenum (ug/L) | MW-313 | 163.6 | 96.35 | 100 | No | 6 | 0 | None | No | 0.01 | Param. |

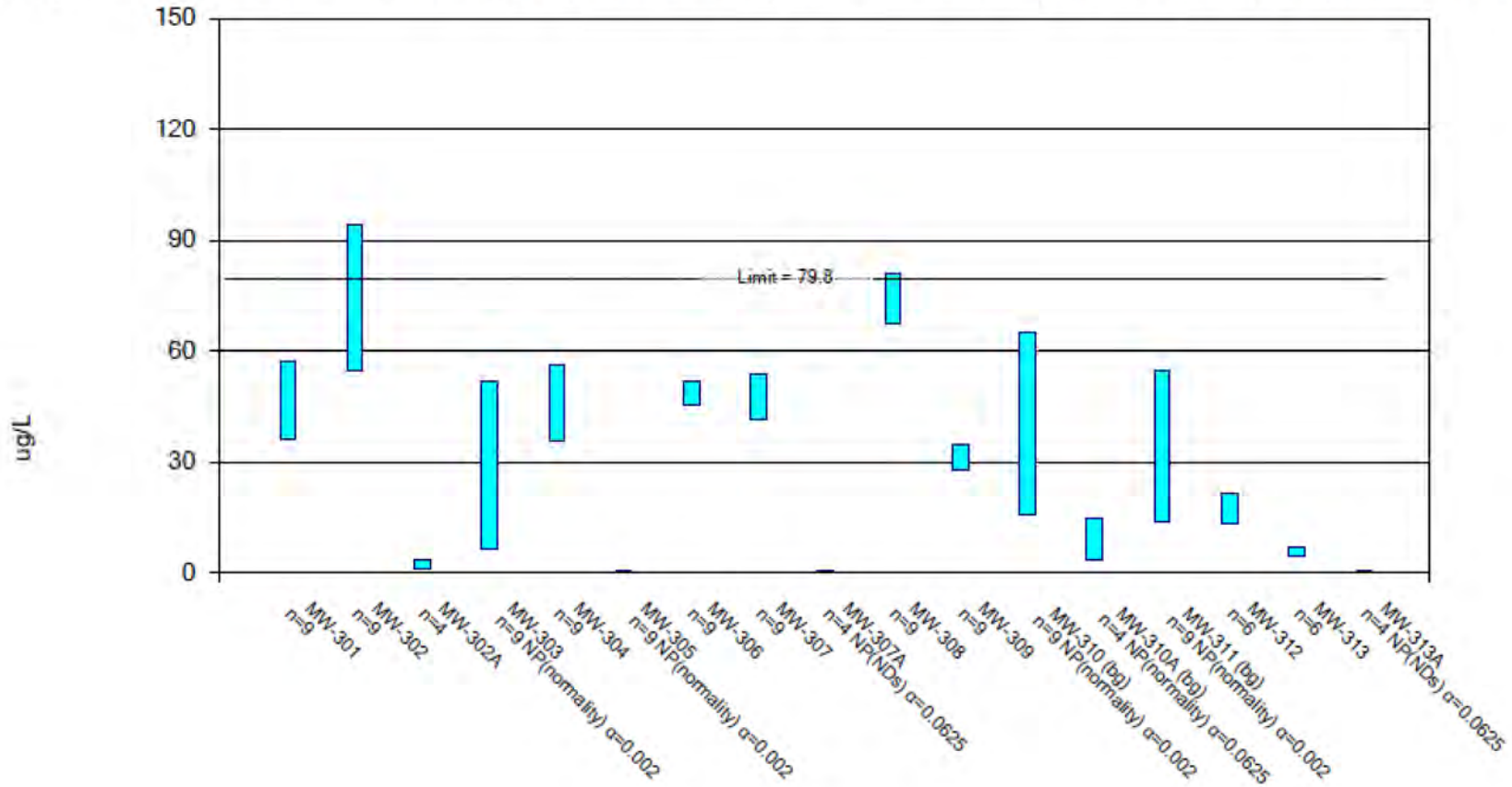
Confidence Interval

Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev Printed 12/13/2021, 3:06 PM

| <u>Constituent</u> | <u>Well</u> | <u>Upper Lim.</u> | <u>Lower Lim.</u> | <u>Compliance</u> | <u>Sig.</u> | <u>N</u> | <u>%NDs</u> | <u>ND Adj.</u> | <u>Transform</u> | <u>Alpha</u> | <u>Method</u> |
|--------------------|-------------|-------------------|-------------------|-------------------|-------------|----------|-------------|----------------|------------------|--------------|---------------|
| Molybdenum (ug/L) | MW-313A | 126.8 | 93.24 | 100 | No | 5 | 0 | None | No | 0.01 | Param. |

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 12/13/2021 3:02 PM

Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

Confidence Interval

Constituent: Arsenic (ug/L) Analysis Run 12/13/2021 3:06 PM

Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

| | MW-301 | MW-302 | MW-302A | MW-303 | MW-304 | MW-305 | MW-306 | MW-307 | MW-307A |
|-------------------|--------|--------|---------|--------|--------|-----------|--------|--------|-----------|
| 5/8/2018 | | | | | | | | | |
| 5/9/2018 | 34.9 | 56.2 | | 7.9 | 57.2 | 0.28 (J) | 52.6 | 54.3 | |
| 8/13/2018 | 40.1 | 49.6 | | 52 | 45.4 | 0.39 (J) | | | |
| 8/14/2018 | | | | | | | 48 | 52.3 | |
| 10/9/2018 | 37.7 | 76.4 | | | | | | | |
| 10/10/2018 | | | | 29.8 | 58.3 | 0.44 (J) | 50.6 | 52.8 | |
| 4/3/2019 | 42 | 53 | | 6.4 | 59 | <0.75 (U) | 50 | 43 | |
| 4/4/2019 | | | | | | | | | |
| 6/6/2019 | | | | | | | | | |
| 10/10/2019 | 40 | 73 | | 17 | 36 | | | | |
| 10/11/2019 | | | | | | <0.75 (U) | 46 | 47 | |
| 6/2/2020 | | | | | | | | | |
| 6/3/2020 | 46 | 110 | | 18 | 35 | <0.88 (U) | | | |
| 6/4/2020 | | | | | | | 50 | 47 | |
| 9/9/2020 | | | 2.9 | | | | | | <0.88 (U) |
| 10/14/2020 | | | | | | | | | <0.88 (U) |
| 10/15/2020 | | | | | 49 | <0.88 (U) | 46 | 47 | |
| 10/16/2020 | 54 | 76 | 2.9 | 14 | | | | | |
| 4/19/2021 | 61 | 75 | 2.1 | 15 | 41 | | 53 | | |
| 4/20/2021 | | | | | | <0.75 (U) | | 52 | <0.75 |
| 10/11/2021 | | | | | | | 43 | 34 | <0.75 (U) |
| 10/12/2021 | | 100 | 1.7 (J) | | | | | | |
| 10/13/2021 | 66 | | | 14 | 32 | | | | |
| 10/14/2021 | | | | | | <0.75 (U) | | | |
| Mean | 46.86 | 74.36 | 2.4 | 19.34 | 45.88 | 0.3878 | 48.8 | 47.71 | 0.4075 |
| Std. Dev. | 10.96 | 20.42 | 0.6 | 13.95 | 10.59 | 0.05057 | 3.32 | 6.329 | 0.03753 |
| Upper Lim. | 57.44 | 94.07 | 3.762 | 52 | 56.1 | 0.44 | 52.01 | 53.82 | 0.44 |
| Lower Lim. | 36.27 | 54.64 | 1.038 | 6.4 | 35.65 | 0.28 | 45.59 | 41.6 | 0.375 |

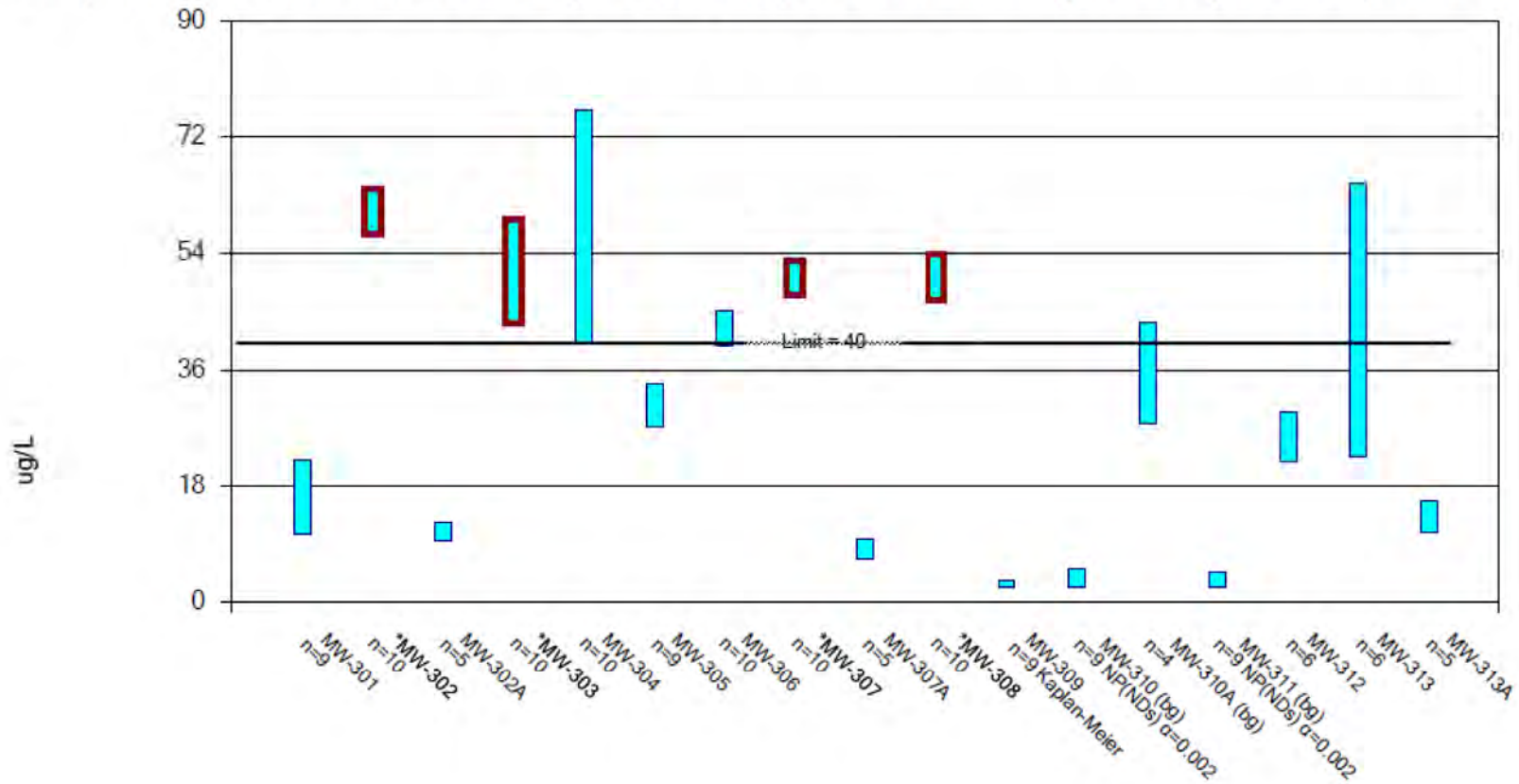
Confidence Interval

Constituent: Arsenic (ug/L) Analysis Run 12/13/2021 3:06 PM
 Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

| | MW-308 | MW-309 | MW-310 (bg) | MW-310A (bg) | MW-311 (bg) | MW-312 | MW-313 | MW-313A |
|-------------------|--------|--------|-------------|--------------|-------------|--------|--------|------------|
| 5/8/2018 | 79.1 | 28.2 | 57.8 | | 14 | | | |
| 5/9/2018 | | | | | | | | |
| 8/13/2018 | 82.5 | | | | | | | |
| 8/14/2018 | | 33.3 | 56.2 | | 15.7 | | | |
| 10/9/2018 | | | | | | | | |
| 10/10/2018 | 79.5 | 35.6 | 62.1 | | 15.2 | | | |
| 4/3/2019 | 78 | | | | | | | |
| 4/4/2019 | | 30 | 65 | | 19 | | | |
| 6/6/2019 | | | | | | 14 | 5.5 | |
| 10/10/2019 | 72 | | | | | 15 | 6.3 | |
| 10/11/2019 | | 34 | 61 | | 18 | | | |
| 6/2/2020 | | | 55 | | 19 | | | |
| 6/3/2020 | | 34 | | | | 22 | 6.9 | |
| 6/4/2020 | 76 | | | | | | | |
| 9/9/2020 | | | | 15 | | | | <-0.88 (U) |
| 10/14/2020 | 69 | 33 | 63 | | 15 | | | |
| 10/15/2020 | | | | | | 19 | 5.5 | <-0.88 (U) |
| 10/16/2020 | | | | 5.1 | | | | |
| 4/19/2021 | | 30 | 16 | | 55 | 18 | 5.2 | <-0.75 (U) |
| 4/20/2021 | 73 | | | 3.5 | | | | |
| 10/11/2021 | | | | | | | | |
| 10/12/2021 | 59 | 24 | 63 | | 22 | | | |
| 10/13/2021 | | | | | | | 4.7 | <-0.75 (U) |
| 10/14/2021 | | | | 3.6 | | 17 | | |
| Mean | 74.23 | 31.34 | 55.46 | 6.8 | 21.43 | 17.5 | 5.683 | 0.4075 |
| Std. Dev. | 7.098 | 3.644 | 15.18 | 5.515 | 12.84 | 2.881 | 0.791 | 0.03753 |
| Upper Lim. | 81.09 | 34.86 | 65 | 15 | 55 | 21.46 | 6.77 | 0.44 |
| Lower Lim. | 67.38 | 27.83 | 16 | 3.5 | 14 | 13.54 | 4.597 | 0.375 |

Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 12/13/2021 2:53 PM

Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

Confidence Interval

Constituent: Lithium (ug/L) Analysis Run 12/13/2021 3:06 PM

Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

| | MW-301 | MW-302 | MW-302A | MW-303 | MW-304 | MW-305 | MW-306 | MW-307 | MW-307A |
|-------------------|--------|--------|---------|--------|--------|--------|--------|--------|---------|
| 5/8/2018 | | | | | | | | | |
| 5/9/2018 | 17.8 | 65.4 | | 50.7 | 63.8 | 27.8 | 36.6 | 47.8 | |
| 8/13/2018 | 18.9 | 61.4 | | 42.1 | 34.3 | 33.6 | | | |
| 8/14/2018 | | | | | | | 46.8 | 56.1 | |
| 10/9/2018 | 24.5 | 57.8 | | | | | | | |
| 10/10/2018 | | | | 35.8 | 82.4 | 27.6 | 41.4 | 45.4 | |
| 3/11/2019 | | | | | | | 39.2 | 50.7 | |
| 3/12/2019 | | 59.9 | | 51.6 | 35.9 | | | | |
| 4/3/2019 | 13 | 56 | | 52 | 52 | 29 | 45 | 50 | |
| 4/4/2019 | | | | | | | | | |
| 6/6/2019 | | | | | | | | | |
| 10/10/2019 | 26 | 57 | | 46 | 38 | | | | |
| 10/11/2019 | | | | | | 26 | 46 | 48 | |
| 6/2/2020 | | | | | | | | | |
| 6/3/2020 | 16 | 55 | | 48 | 47 | 28 | | | |
| 6/4/2020 | | | | | | | 43 | 48 | |
| 9/9/2020 | | | 11 | | | | | | 6.8 (J) |
| 10/14/2020 | | | | | | | | | 8.3 (J) |
| 10/15/2020 | | | | | 92 | 34 | 42 | 51 | |
| 10/16/2020 | 10 | 64 | 11 | 59 | | | | | |
| 3/1/2021 | | | 11 | | | | | | |
| 3/2/2021 | | | | | | | | | 9.1 (J) |
| 4/19/2021 | 10 | 64 | 9.6 (J) | 66 | 75 | | 43 | | |
| 4/20/2021 | | | | | | 36 | | 53 | 8.7 (J) |
| 10/11/2021 | | | | | | | 41 | 52 | 7.7 (J) |
| 10/12/2021 | | 64 | 12 | | | | | | |
| 10/13/2021 | 11 | | | 61 | 60 | | | | |
| 10/14/2021 | | | | | | 32 | | | |
| Mean | 16.36 | 60.45 | 10.92 | 51.22 | 58.04 | 30.44 | 42.4 | 50.2 | 8.12 |
| Std. Dev. | 6.008 | 3.829 | 0.8556 | 9.032 | 20.23 | 3.514 | 3.106 | 3.079 | 0.9011 |
| Upper Lim. | 22.16 | 63.87 | 12.35 | 59.28 | 76.09 | 33.84 | 45.17 | 52.95 | 9.63 |
| Lower Lim. | 10.55 | 57.03 | 9.486 | 43.16 | 39.99 | 27.05 | 39.63 | 47.45 | 6.61 |

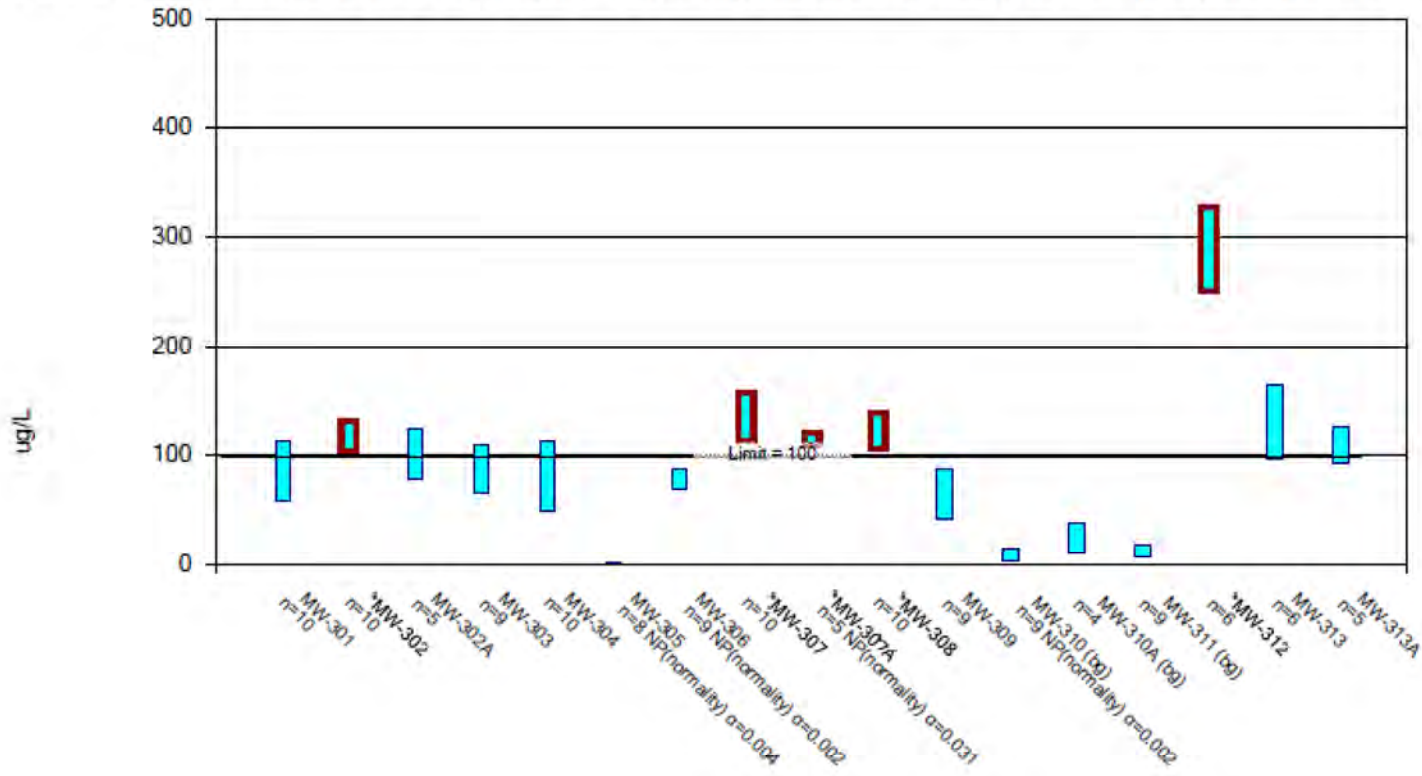
Confidence Interval

Constituent: Lithium (ug/L) Analysis Run 12/13/2021 3:06 PM
 Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

| | MW-308 | MW-309 | MW-310 (bg) | MW-310A (bg) | MW-311 (bg) | MW-312 | MW-313 | MW-313A |
|------------|--------|----------|-------------|--------------|-------------|--------|--------|---------|
| 5/8/2018 | 46 | <4.6 (U) | <4.6 (U) | | <4.6 (U) | | | |
| 5/9/2018 | | | | | | | | |
| 8/13/2018 | 52 | | | | | | | |
| 8/14/2018 | | <4.6 (U) | 5.3 (J) | | <4.6 (U) | | | |
| 10/9/2018 | | | | | | | | |
| 10/10/2018 | 43.6 | <4.6 (U) | <4.6 (U) | | <4.6 (U) | | | |
| 3/11/2019 | | | | | | | | |
| 3/12/2019 | 48.9 | | | | | | | |
| 4/3/2019 | 50 | | | | | | | |
| 4/4/2019 | | 3.3 (J) | <2.7 (U) | | <2.7 (U) | | | |
| 6/6/2019 | | | | | | 24 | 43 | |
| 10/10/2019 | 52 | | | | | 27 | 62 | |
| 10/11/2019 | | <5.4 (U) | <2.7 (U) | | <2.7 (U) | | | |
| 6/2/2020 | | | <2.3 (U) | | <2.3 (U) | | | |
| 6/3/2020 | | 2.4 (J) | | | | 22 | 52 | |
| 6/4/2020 | 48 | | | | | | | |
| 9/9/2020 | | | | 32 | | | | 13 |
| 10/14/2020 | 51 | <2.5 (U) | <2.5 (U) | | <2.5 (U) | | | |
| 10/15/2020 | | | | | | 27 | 51 | 13 |
| 10/16/2020 | | | | 36 | | | | |
| 3/1/2021 | | | | | | | | 15 |
| 3/2/2021 | | | | | | | | |
| 4/19/2021 | | 3.8 (J) | <2.5 (U) | | <2.5 (U) | 30 | 36 | 14 |
| 4/20/2021 | 54 | | | 40 | | | | |
| 10/11/2021 | | | | | | | | |
| 10/12/2021 | 58 | 2.8 (J) | <2.5 (U) | | <2.5 (U) | | | |
| 10/13/2021 | | | | | | | 18 | 11 |
| 10/14/2021 | | | | 34 | | 24 | | |
| Mean | 50.35 | 3.778 | 3.3 | 35.5 | 3.222 | 25.67 | 43.67 | 13.2 |
| Std. Dev. | 4.082 | 1.083 | 1.174 | 3.416 | 1.04 | 2.875 | 15.34 | 1.483 |
| Upper Lim. | 53.99 | 3.464 | 5.3 | 43.25 | 4.6 | 29.62 | 64.75 | 15.69 |
| Lower Lim. | 46.71 | 2.416 | 2.3 | 27.75 | 2.3 | 21.72 | 22.59 | 10.71 |

Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 12/13/2021 3:04 PM

Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

Confidence Interval

Constituent: Molybdenum (ug/L) Analysis Run 12/13/2021 3:06 PM

Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

| | MW-301 | MW-302 | MW-302A | MW-303 | MW-304 | MW-305 | MW-306 | MW-307 | MW-307A |
|-------------------|--------|--------|---------|--------|--------|----------|--------|--------|---------|
| 5/8/2018 | | | | | | | | | |
| 5/9/2018 | 113 | 118 | | 75.4 | 126 | 0.87 (J) | 84.7 | 154 | |
| 8/13/2018 | 81.7 | 121 | | 77.9 | 74.9 | 1 | | | |
| 8/14/2018 | | | | | | | 82.9 | 155 | |
| 10/9/2018 | 120 | 122 | | | | | | | |
| 10/10/2018 | | | | 56.5 | 113 | 0.72 (J) | 83.5 | 159 | |
| 3/11/2019 | | | | | | | | 156 | |
| 3/12/2019 | 62.7 | 123 | | | 47.4 | | | | |
| 4/3/2019 | 77 | 100 | | 110 | 58 | <1.1 (U) | 78 | 100 | |
| 4/4/2019 | | | | | | | | | |
| 6/6/2019 | | | | | | | | | |
| 10/10/2019 | 130 | 100 | | 76 | 47 | | | | |
| 10/11/2019 | | | | | | <1.1 (U) | 84 | 130 | |
| 6/2/2020 | | | | | | | | | |
| 6/3/2020 | 110 | 140 | | 66 | 45 | <1.1 (U) | | | |
| 6/4/2020 | | | | | | | 86 | 130 | |
| 9/9/2020 | | | 120 | | | | | | 110 |
| 10/14/2020 | | | | | | | | | 120 |
| 10/15/2020 | | | | | 140 | | 82 | 140 | |
| 10/16/2020 | 67 | 130 | 110 | 84 | | | | | |
| 3/1/2021 | | | 87 | | | | | | |
| 3/2/2021 | | | | | | | | | 120 |
| 4/19/2021 | 46 | 130 | 95 | 120 | 100 | | 87 | | |
| 4/20/2021 | | | | | | <1.3 (U) | | 140 | 120 |
| 10/11/2021 | | | | | | | 69 | 85 | 110 |
| 10/12/2021 | | 91 | 93 | | | | | | |
| 10/13/2021 | 47 | | | 120 | 59 | | | | |
| 10/14/2021 | | | | | | <1.3 (U) | | | |
| Mean | 85.44 | 117.5 | 101 | 87.31 | 81.03 | 0.6925 | 81.9 | 134.9 | 116 |
| Std. Dev. | 30.76 | 15.62 | 13.58 | 23.52 | 35.78 | 0.1653 | 5.48 | 24.95 | 5.477 |
| Upper Lim. | 112.9 | 131.4 | 123.8 | 110 | 113 | 1 | 87 | 157.2 | 120 |
| Lower Lim. | 57.99 | 103.6 | 78.24 | 64.6 | 49.11 | 0.55 | 69 | 112.6 | 110 |

Confidence Interval

Constituent: Molybdenum (ug/L) Analysis Run 12/13/2021 3:06 PM
 Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

| | MW-308 | MW-309 | MW-310 (bg) | MW-310A (bg) | MW-311 (bg) | MW-312 | MW-313 | MW-313A |
|-------------------|--------|--------|-------------|--------------|-------------|--------|--------|---------|
| 5/8/2018 | 140 | 43.4 | 4.2 | | 11.6 | | | |
| 5/9/2018 | | | | | | | | |
| 8/13/2018 | 140 | | | | | | | |
| 8/14/2018 | | 52.8 | 4 | | 13.9 | | | |
| 10/9/2018 | | | | | | | | |
| 10/10/2018 | 145 | 71.8 | 4.6 | | 16.3 | | | |
| 3/11/2019 | | | | | | | | |
| 3/12/2019 | 135 | | | | | | | |
| 4/3/2019 | 110 | | | | | | | |
| 4/4/2019 | | 47 | 5.2 | | 8.5 | | | |
| 6/6/2019 | | | | | | 290 | 130 | |
| 10/10/2019 | 120 | | | | | 280 | 110 | |
| 10/11/2019 | | 90 | 6 | | 15 | | | |
| 6/2/2020 | | | 5.8 | | 11 | | | |
| 6/3/2020 | | 87 | | | | 320 | 130 | |
| 6/4/2020 | 120 | | | | | | | |
| 9/9/2020 | | | | 19 | | | | 120 |
| 10/14/2020 | 110 | 100 | 3.6 | | 23 | | | |
| 10/15/2020 | | | | | | 290 | 100 | 120 |
| 10/16/2020 | | | | 33 | | | | |
| 3/1/2021 | | | | | | | | 110 |
| 3/2/2021 | | | | | | | | |
| 4/19/2021 | | 50 | 14 | | 4.1 | 310 | 140 | 100 |
| 4/20/2021 | 120 | | | 24 | | | | |
| 10/11/2021 | | | | | | | | |
| 10/12/2021 | 81 | 39 | 4.9 | | 6.9 | | | |
| 10/13/2021 | | | | | | | 170 | 100 |
| 10/14/2021 | | | | 20 | | 240 | | |
| Mean | 122.1 | 64.56 | 5.811 | 24 | 12.26 | 288.3 | 130 | 110 |
| Std. Dev. | 19.23 | 22.96 | 3.173 | 6.377 | 5.627 | 27.87 | 24.49 | 10 |
| Upper Lim. | 139.3 | 86.73 | 14 | 38.48 | 17.69 | 326.6 | 163.6 | 126.8 |
| Lower Lim. | 104.9 | 42.38 | 3.6 | 9.522 | 6.822 | 250 | 96.35 | 93.24 |

E2 Upper Prediction Limit Update

August 6, 2021
File No. 25220066.00

TECHNICAL MEMORANDUM

SUBJECT: Statistical Evaluation of Groundwater Monitoring Results – UPL Update
Burlington Generating Station

PREPARED BY: Nicole Kron

CHECKED BY: Sherren Clark

STATISTICAL METHOD

For comparison to background, groundwater monitoring data for the multiunit system at the Burlington Generating Station (BGS), is evaluated in accordance with 40 CFR 257.93(f)(3), using a prediction interval procedure, in which an interval for each constituent is established from the distribution of the background data, and the level of each constituent in each compliance well is compared to the upper prediction limit.

For assessment monitoring parameters, groundwater monitoring data is evaluated by comparing the lower confidence limit (LCL) for the arithmetic mean of the monitoring results to the Groundwater Protection Standard (GPS) established in accordance with 40 CFR 257.95(h).

Statistical evaluation is performed using commercially available software (*Sanitas for Groundwater*® or similar) in general accordance with the USEPA's *Unified Guidance for Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities* dated March 2009 (Unified Guidance) (USEPA, 2009) and generally accepted procedures.

The BGS monitoring data includes two upgradient/background monitoring wells, MW-310 and MW-311, 9 compliance monitoring wells, and 5 delineation monitoring wells. An additional upgradient piezometer was installed in 2020, MW-310A, which is located near background monitoring well MW-310. Monitoring well MW-310A was installed to evaluate background conditions in the deeper groundwater, but results from MW-310A are not being used in the statistical analysis because the hydrogeologic conditions in the deeper well and the monitoring results obtained to date suggest that this well may not represent background conditions for the downgradient compliance wells.

The initial Upper Prediction limits (UPLs) were calculated based on eight rounds of background monitoring performed prior to the initiation of compliance monitoring for the BGS CCR units, from April 2016 through August 2017. Since then, additional rounds of monitoring for Appendix III and IV parameters have been performed at the background wells. As part of the evaluation of the April 2021 monitoring results, the background data set for the UPL calculations is being updated to include data from the background wells collected through October 2020. This memo addresses updated UPLs for Appendix III and IV parameters.



Because the site is already in assessment monitoring and in the process of selecting a remedy, the purposes of the UPL analysis are to provide a basis for comparison of downgradient water quality to background and to establish a GPS for any parameter where background water quality exceeds the GPS values in 40 CFR 257.95(h)(1) and (2). Background concentrations of arsenic exceed the Maximum Contaminant Level (MCL) of 10 micrograms per liter; therefore, the GPS for arsenic is based on the UPL and will be updated to the new UPL value.

TIME SERIES PLOTS

Time series plots are prepared for the required monitoring parameters to show the arsenic concentration variations over time. Time series graphs are included in **Attachment 1**.

OUTLIER ANALYSIS - INTERWELL

For interwell analysis, an outlier evaluation is performed for background monitoring results at the upgradient wells. A statistical outlier is a value that is extremely different from the other values in the data set. The Sanitas outlier tests identify data points that do not appear to fit the distribution of the rest of the data set and determine if they differ significantly from the rest of the data. The outlier analysis performed in Sanitas includes the following steps:

- 1) Run normality test (Shapiro Wilk/Francia).
- 2) If normally distributed, run USEPA's 1989 Outlier Test to identify suspected outliers.
 - a) If number of background samples is less than or equal to 25, run Dixon's test for suspected outliers.
 - b) If number of background samples is more than 25, run Rosner's test for suspected outliers.
- 3) If not normally distributed, run Tukey's test for outliers.
- 4) Review data flagged as possible outliers to evaluate whether they should be removed from the background data set. Also review time series plots for possible outliers that were not picked up in the statistical evaluation (e.g., outlier test may not identify outliers when two values are similar to each other, but very different from all other data).

Results identified as statistical outliers are checked for possible lab instrument failure, field collection problems, or data entry errors; however, outliers may exist naturally in the data if there is an extremely wide inherent or temporal variability in the data. The Unified Guidance states that unless a likely error can be identified, the outlier should not be removed.

For the interwell evaluation of the October 2020 sampling event, the following background values were identified by Sanitas as potential outliers and handled as described:

- **Boron, MW-310, 6/12/2017.** One high result from the June 2017 event was flagged as a statistical outlier. This result was removed from the dataset because it appears to be an extreme value relative to all other results for this well.
- **Boron, MW-311, 8/16/2017.** One low result from the August 2017 event was flagged as a statistical outlier. This result was removed from the dataset because it appears to be an extreme value relative to all other results for this well.

- **Fluoride, MW-310, 4/4/2019, 6/2/2020, 10/14/2020.** Three of the last four results were flagged as statistical outliers, including two high and one low result. The results appear to reflect an increase in variability in fluoride concentrations, but do not show a trend and appear to be within the range of potential natural variability for background (all values are less than 0.7 mg/L); therefore, these values were retained in the dataset.
- **Fluoride, MW-311, 6/2/2020, 10/14/2020.** The June and October 2020 results were flagged as statistical outliers, including one high and one low result. The results appear to reflect an increase in variability in fluoride concentrations, but do not show a trend and appear to be within the range of potential natural variability for background (all values are less than 0.7 mg/L); therefore, these values were retained in the dataset.
- **Molybdenum, MW-310, 6/12/2017.** One high result from the June 2017 event was flagged as a statistical outlier. This result was removed from the dataset because it appears to be an extreme value relative to all other results for this well.
- **Molybdenum, MW-311, 10/14/2020.** One high result from the October 2020 event was flagged as a statistical outlier. This result was not removed from the dataset because it appears to be within a range that could represent natural variability, it only slightly exceeded the cutoff value at the 5% significance level, and it was not flagged when the outlier analysis was rerun at a 1% significance level.
- **Total Radium, MW-311, 10/3/2016, 10/14/2020.** Two low results from the October 2016 and October 2020 events were flagged as statistical outliers. These results were not removed from the dataset because they appear to be within a range that could represent natural variability and were not flagged when the outlier analysis was rerun at a 1% significance level.

Outlier analysis of arsenic results are included in **Attachment 2**.

BACKGROUND UPDATE

The background data pool was updated in accordance with the Unified Guidance, which recommends updating background every 2 to 3 years for semiannual sampling. Prior to expanding the data pool, the original background data set (4/2016 through 8/2017) and the data to be added (10/2017 through 10/2020) were compared. The Unified Guidance states that recently collected measurements from the background wells can be added to the existing pool if a Student's t-test or Wilcoxon rank-sum test finds no significant difference between the two groups at the 1% level of significance.

The Sanitas background group comparison for the BGS background data sets, included in **Attachment 3**, indicated no significant difference at the 1% level, except for beryllium, cadmium, and mercury, where most results were non-detect and the shift reflected a change in detection limits. Based on these results, the more recent data can be added to the background pool. The comparison uses Welch's t-test for normally distributed data and the Mann-Whitney test for non-normal data. (Note: The Sanitas output labels the earlier background dataset as "Background" and the later background dataset as "Compliance," but all data from background wells MW-310 and MW-311 are background data.)

INTERWELL PREDICTION LIMITS

Interwell prediction limits are calculated using background data from the upgradient monitoring wells (MW-310 and MW-311) for each monitored constituent, with outliers removed as noted above. During this evaluation of compliance monitoring, groundwater arsenic results from April 2016 through October 2020 were included to calculate the interwell prediction limits. The prediction limit analysis performed in Sanitas includes the following steps:

- 1) If 100% of the background values are non-detect, the Double Quantification rule applies and no prediction limit is calculated.
- 2) If more than 50% of results are non-detect, then a non-parametric prediction limit is calculated.
- 3) If 50% or fewer of the results are non-detect, run normality test (Shapiro Wilk/Francia) to assess whether the data fit a normal distribution or can be transformed to fit a normal distribution (e.g., lognormal).
- 4) If normal or transformed normal, calculate parametric prediction limit.
- 5) If not normal or transformed normal, calculate non-parametric prediction limit.

Consistent with the Unified Guidance, parametric prediction limits are calculated based on a 1-of-2 retesting protocol and a 10 percent site-wide false positive rate. Sanitas establishes the per-test significance level based on user inputs of the number of events per year, number of constituents being evaluated, and number of compliance wells. For the October 2020 event, the following values were used:

| Parameter | Value | Comments |
|-----------------------|-------|----------------------------------------------------------------------------|
| Evaluations per year | 2 | Spring and Fall events |
| Constituents analyzed | 21 | Total of 21 constituents analyzed, all constituents detected at least once |
| Compliance wells | 14 | 9 compliance wells and 5 delineation wells |

Non-parametric prediction limits are also based on a 1-of-2 retesting protocol. The non-parametric limit is the highest value in the background dataset. Due to the small sample size, the false positive rate for the non-parametric tests is higher than for the parametric tests, but will go down as more background data are obtained.

For results with 100 percent non-detects in the background data, evaluation under the Double Quantification Rule means that a statistically significant increase (SSI) has not occurred for a compliance well unless two sample results from the well exceed the laboratory's reporting limit or quantification limit. All of the constituents were detected at least one in the background wells; therefore, UPLs were calculated for all. Although UPLs were calculated for constituents with a high proportion of non-detects, a future result will not be identified as an SSI unless two sample results exceed both the UPL and the reporting limit or quantification limit.

TECHNICAL MEMORANDUM

August 6, 2021

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For evaluation of parameters with less than 100 percent non-detects in the background sampling, the non-detects were adjusted using the Kaplan-Meier technique, unless the non-detects represent less than 15 percent of the total samples, in which case one-half of the detection limit was used.

Interwell prediction limit analysis results are included in **Attachment 4**.

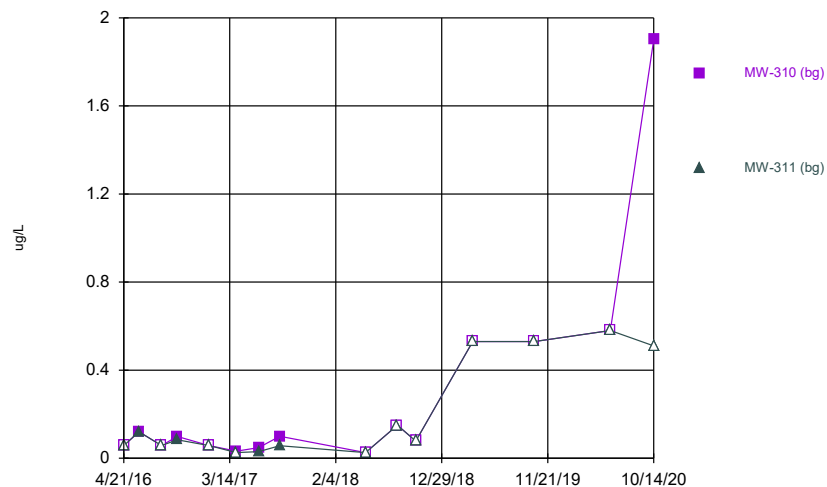
NDK/SCC

\\Mad-fs01\data\Projects\25221066.00\Data and Calculations\Sanitas\BGS - UPL Update\2108_BGS - CCR Stats Memo.docx

Attachment 1

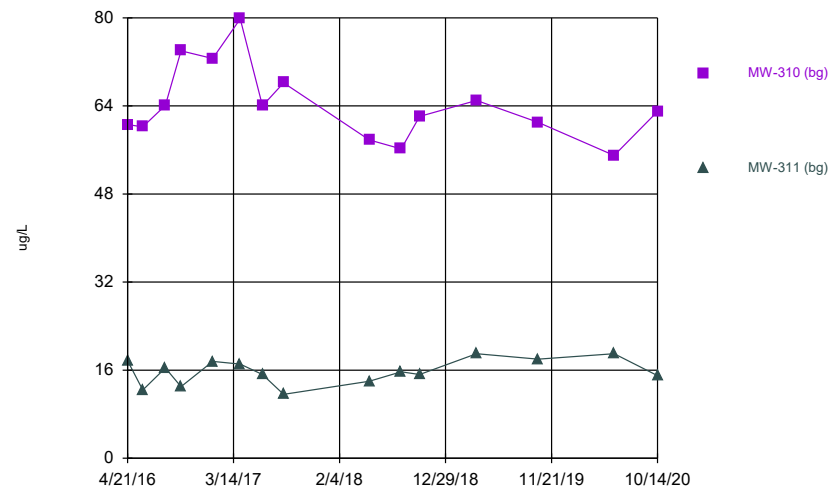
Times Series Graphs

Antimony



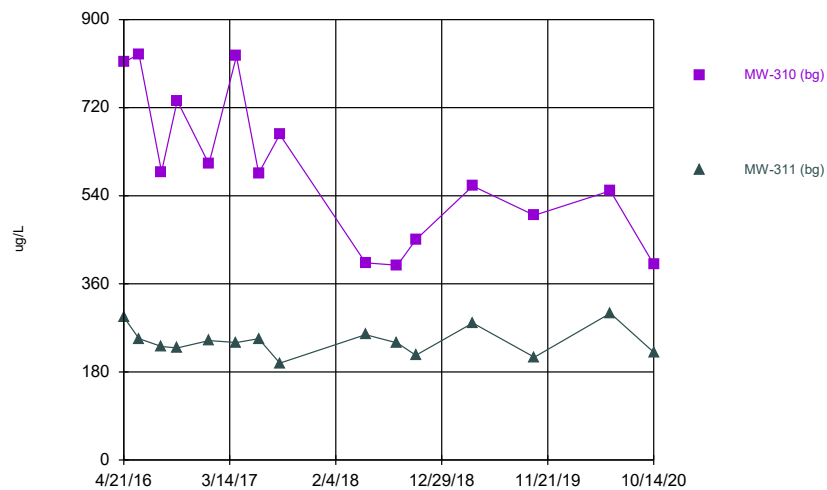
Time Series Analysis Run 8/6/2021 11:13 AM View: Background
 Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

Arsenic



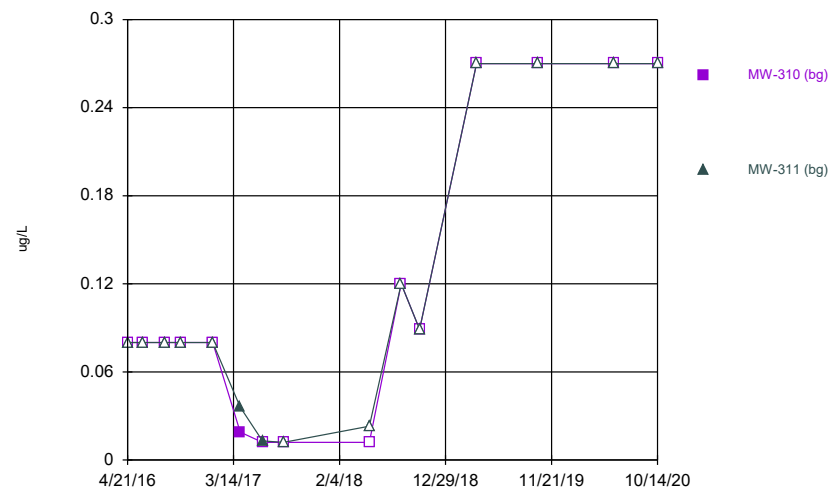
Time Series Analysis Run 8/6/2021 11:13 AM View: Background
 Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

Barium



Time Series Analysis Run 8/6/2021 11:13 AM View: Background
 Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

Beryllium



Time Series Analysis Run 8/6/2021 11:13 AM View: Background
 Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

Time Series

Constituent: Antimony (ug/L) Analysis Run 8/6/2021 11:14 AM View: Background
Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

| | MW-310 (bg) | MW-311 (bg) |
|------------|-------------|-------------|
| 4/21/2016 | <0.058 (U) | <0.058 (U) |
| 6/7/2016 | 0.12 (J) | 0.12 (J) |
| 8/16/2016 | <0.058 (U) | <0.058 (U) |
| 10/3/2016 | 0.099 (J) | 0.084 (J) |
| 1/9/2017 | <0.058 (U) | <0.058 (U) |
| 4/4/2017 | 0.032 (J) | <0.026 (U) |
| 6/12/2017 | 0.048 (J) | 0.03 (J) |
| 8/16/2017 | 0.1 (J) | 0.057 (J) |
| 5/8/2018 | <0.026 (U) | <0.026 (U) |
| 8/14/2018 | <0.15 (U) | <0.15 (U) |
| 10/10/2018 | <0.078 (U) | <0.078 (U) |
| 4/4/2019 | <0.53 (U) | <0.53 (U) |
| 10/11/2019 | <0.53 (U) | <0.53 (U) |
| 6/2/2020 | <0.58 (U) | <0.58 (U) |
| 10/14/2020 | 1.9 | <0.51 (U) |

Time Series

Constituent: Arsenic (ug/L) Analysis Run 8/6/2021 11:14 AM View: Background
Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

| | MW-310 (bg) | MW-311 (bg) |
|------------|-------------|-------------|
| 4/21/2016 | 60.6 | 17.7 |
| 6/7/2016 | 60.2 | 12.4 |
| 8/16/2016 | 64.1 | 16.4 |
| 10/3/2016 | 74 | 13 |
| 1/9/2017 | 72.6 | 17.6 |
| 4/4/2017 | 79.8 | 17.1 |
| 6/12/2017 | 64 | 15.2 |
| 8/16/2017 | 68.2 | 11.6 |
| 5/8/2018 | 57.8 | 14 |
| 8/14/2018 | 56.2 | 15.7 |
| 10/10/2018 | 62.1 | 15.2 |
| 4/4/2019 | 65 | 19 |
| 10/11/2019 | 61 | 18 |
| 6/2/2020 | 55 | 19 |
| 10/14/2020 | 63 | 15 |

Time Series

Constituent: Barium (ug/L) Analysis Run 8/6/2021 11:14 AM View: Background
Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

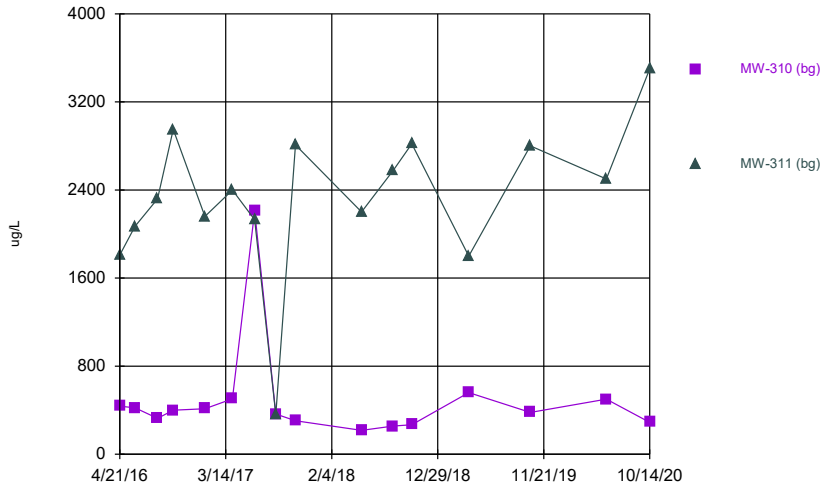
| | MW-310 (bg) | MW-311 (bg) |
|------------|-------------|-------------|
| 4/21/2016 | 813 | 292 |
| 6/7/2016 | 829 | 248 |
| 8/16/2016 | 589 | 232 |
| 10/3/2016 | 734 | 229 |
| 1/9/2017 | 605 | 244 |
| 4/4/2017 | 825 | 240 |
| 6/12/2017 | 586 | 248 |
| 8/16/2017 | 665 | 198 |
| 5/8/2018 | 403 | 256 |
| 8/14/2018 | 398 | 239 |
| 10/10/2018 | 450 | 214 |
| 4/4/2019 | 560 | 280 |
| 10/11/2019 | 500 | 210 |
| 6/2/2020 | 550 | 300 |
| 10/14/2020 | 400 | 220 |

Time Series

Constituent: Beryllium (ug/L) Analysis Run 8/6/2021 11:14 AM View: Background
Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

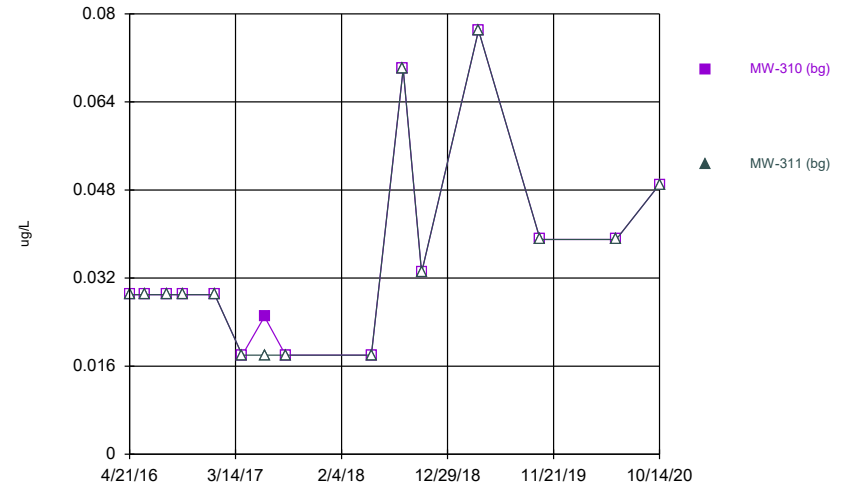
| | MW-310 (bg) | MW-311 (bg) |
|------------|-------------|-------------|
| 4/21/2016 | <0.08 (U) | <0.08 (U) |
| 6/7/2016 | <0.08 (U) | <0.08 (U) |
| 8/16/2016 | <0.08 (U) | <0.08 (U) |
| 10/3/2016 | <0.08 (U) | <0.08 (U) |
| 1/9/2017 | <0.08 (U) | <0.08 (U) |
| 4/4/2017 | 0.019 (J) | 0.036 (J) |
| 6/12/2017 | <0.012 (U) | 0.013 (J) |
| 8/16/2017 | <0.012 (U) | <0.012 (U) |
| 5/8/2018 | <0.012 (U) | <0.023 (U) |
| 8/14/2018 | <0.12 (U) | <0.12 (U) |
| 10/10/2018 | <0.089 (U) | <0.089 (U) |
| 4/4/2019 | <0.27 (U) | <0.27 (U) |
| 10/11/2019 | <0.27 (U) | <0.27 (U) |
| 6/2/2020 | <0.27 (U) | <0.27 (U) |
| 10/14/2020 | <0.27 (U) | <0.27 (U) |

Boron



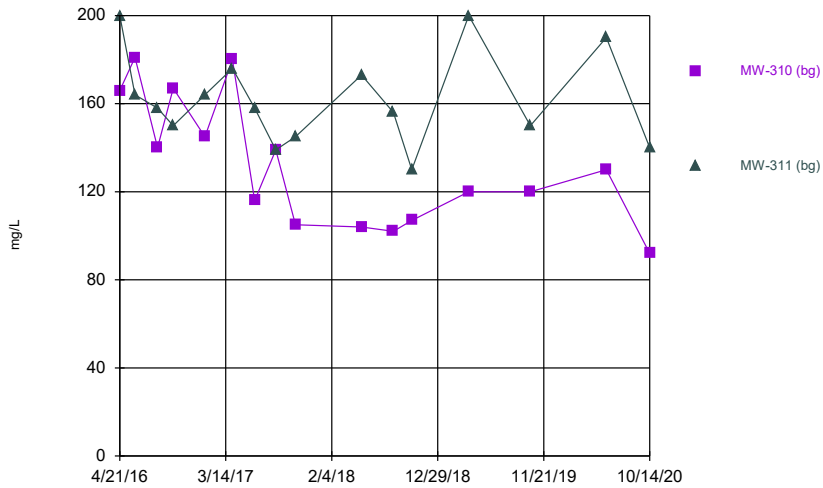
Time Series Analysis Run 8/6/2021 11:13 AM View: Background
 Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

Cadmium



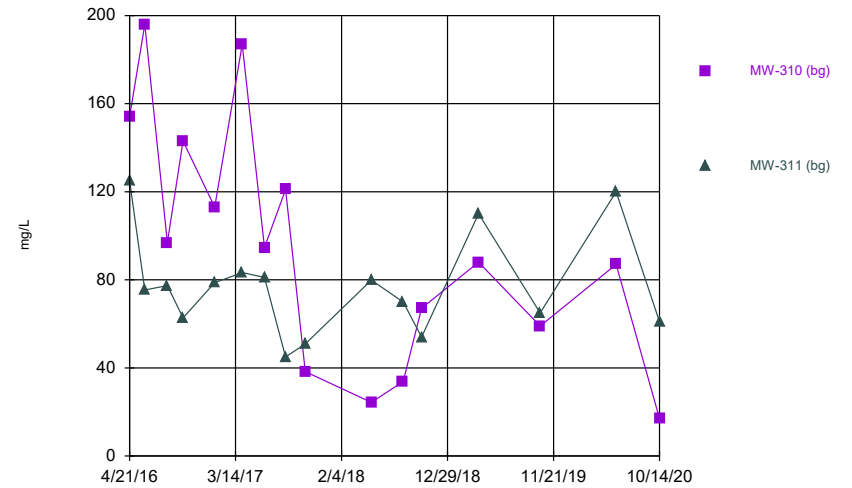
Time Series Analysis Run 8/6/2021 11:13 AM View: Background
 Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

Calcium



Time Series Analysis Run 8/6/2021 11:13 AM View: Background
 Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

Chloride



Time Series Analysis Run 8/6/2021 11:13 AM View: Background
 Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

Time Series

Constituent: Boron (ug/L) Analysis Run 8/6/2021 11:14 AM View: Background
Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

| | MW-310 (bg) | MW-311 (bg) |
|------------|-------------|-------------|
| 4/21/2016 | 437 | 1810 |
| 6/7/2016 | 422 | 2070 |
| 8/16/2016 | 326 | 2320 |
| 10/3/2016 | 400 | 2950 |
| 1/9/2017 | 413 | 2160 |
| 4/4/2017 | 503 | 2400 |
| 6/12/2017 | 2210 | 2130 |
| 8/16/2017 | 365 | 360 |
| 10/16/2017 | 305 | 2810 |
| 5/8/2018 | 217 | 2200 |
| 8/14/2018 | 256 | 2580 |
| 10/10/2018 | 268 | 2820 |
| 4/4/2019 | 560 | 1800 |
| 10/11/2019 | 380 | 2800 |
| 6/2/2020 | 500 | 2500 |
| 10/14/2020 | 290 | 3500 |

Time Series

Constituent: Cadmium (ug/L) Analysis Run 8/6/2021 11:14 AM View: Background
Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

| | MW-310 (bg) | MW-311 (bg) |
|------------|-------------|-------------|
| 4/21/2016 | <0.029 (U) | <0.029 (U) |
| 6/7/2016 | <0.029 (U) | <0.029 (U) |
| 8/16/2016 | <0.029 (U) | <0.029 (U) |
| 10/3/2016 | <0.029 (U) | <0.029 (U) |
| 1/9/2017 | <0.029 (U) | <0.029 (U) |
| 4/4/2017 | <0.018 (U) | <0.018 (U) |
| 6/12/2017 | 0.025 (J) | <0.018 (U) |
| 8/16/2017 | <0.018 (U) | <0.018 (U) |
| 5/8/2018 | <0.018 (U) | <0.018 (U) |
| 8/14/2018 | <0.07 (U) | <0.07 (U) |
| 10/10/2018 | <0.033 (U) | <0.033 (U) |
| 4/4/2019 | <0.077 (U) | <0.077 (U) |
| 10/11/2019 | <0.039 (U) | <0.039 (U) |
| 6/2/2020 | <0.039 (U) | <0.039 (U) |
| 10/14/2020 | <0.049 (U) | <0.049 (U) |

Time Series

Constituent: Calcium (mg/L) Analysis Run 8/6/2021 11:14 AM View: Background
Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

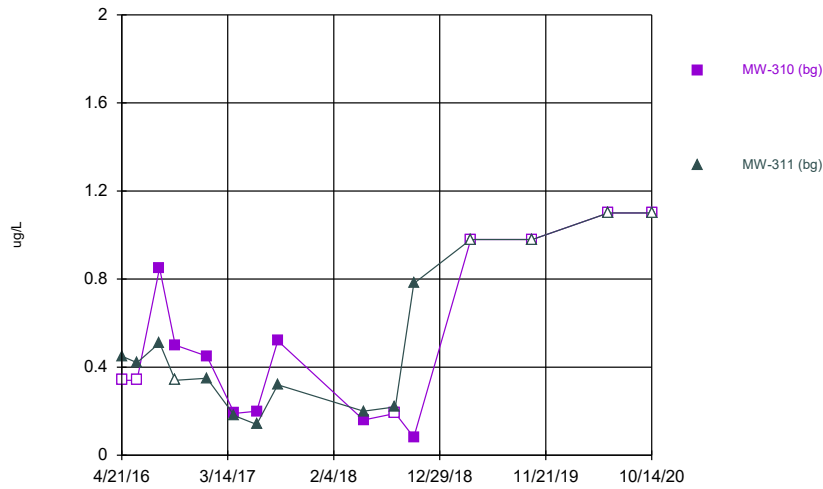
| | MW-310 (bg) | MW-311 (bg) |
|------------|-------------|-------------|
| 4/21/2016 | 166 | 200 |
| 6/7/2016 | 181 | 164 |
| 8/16/2016 | 140 | 158 |
| 10/3/2016 | 167 | 150 |
| 1/9/2017 | 145 | 164 |
| 4/4/2017 | 180 | 176 |
| 6/12/2017 | 116 | 158 |
| 8/16/2017 | 139 | 139 |
| 10/16/2017 | 105 | 145 |
| 5/8/2018 | 104 | 173 |
| 8/14/2018 | 102 | 156 |
| 10/10/2018 | 107 | 130 |
| 4/4/2019 | 120 | 200 |
| 10/11/2019 | 120 | 150 |
| 6/2/2020 | 130 | 190 |
| 10/14/2020 | 92 | 140 |

Time Series

Constituent: Chloride (mg/L) Analysis Run 8/6/2021 11:14 AM View: Background
Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

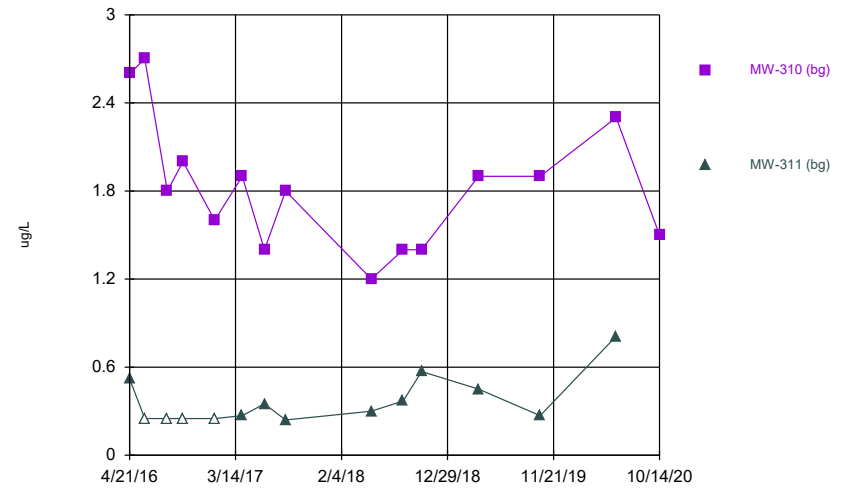
| | MW-310 (bg) | MW-311 (bg) |
|------------|-------------|-------------|
| 4/21/2016 | 154 | 125 |
| 6/7/2016 | 196 | 75.4 |
| 8/16/2016 | 96.9 | 77.4 |
| 10/3/2016 | 143 | 62.7 |
| 1/9/2017 | 113 | 78.7 |
| 4/4/2017 | 187 | 83.3 |
| 6/12/2017 | 94.7 | 81.1 |
| 8/16/2017 | 121 | 45 |
| 10/16/2017 | 38.3 | 50.9 |
| 5/8/2018 | 24.4 | 79.9 |
| 8/14/2018 | 33.8 | 69.9 |
| 10/10/2018 | 67.1 | 54 |
| 4/4/2019 | 88 | 110 |
| 10/11/2019 | 59 | 65 |
| 6/2/2020 | 87 | 120 |
| 10/14/2020 | 17 | 61 |

Chromium



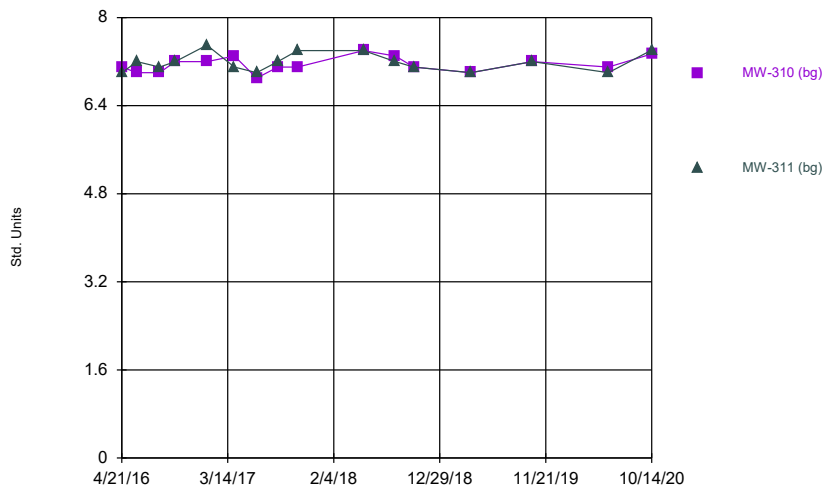
Time Series Analysis Run 8/6/2021 11:13 AM View: Background
 Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

Cobalt



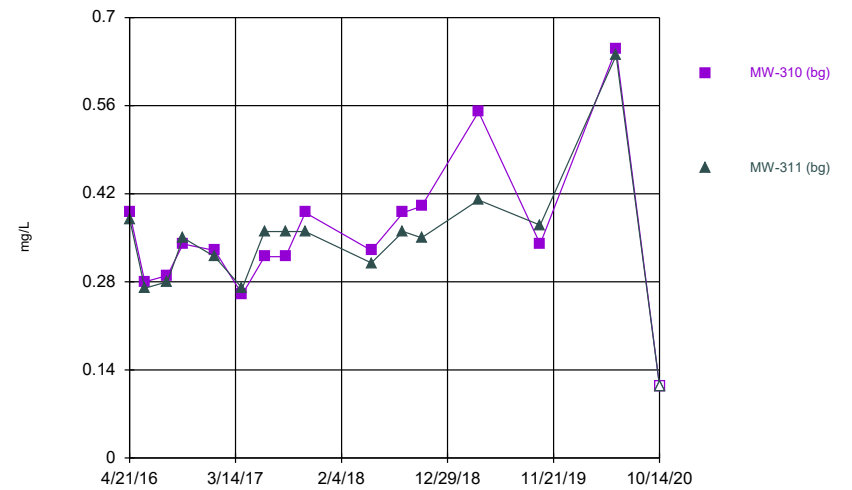
Time Series Analysis Run 8/6/2021 11:13 AM View: Background
 Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

Field pH



Time Series Analysis Run 8/6/2021 11:13 AM View: Background
 Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

Fluoride



Time Series Analysis Run 8/6/2021 11:13 AM View: Background
 Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

Time Series

Constituent: Chromium (ug/L) Analysis Run 8/6/2021 11:14 AM View: Background
Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

| | MW-310 (bg) | MW-311 (bg) |
|------------|-------------|-------------|
| 4/21/2016 | <0.34 (U) | 0.45 (J) |
| 6/7/2016 | <0.34 (U) | 0.42 (J) |
| 8/16/2016 | 0.85 (J) | 0.51 (J) |
| 10/3/2016 | 0.5 (J) | <0.34 (U) |
| 1/9/2017 | 0.45 (J) | 0.35 (J) |
| 4/4/2017 | 0.19 (J) | 0.18 (J) |
| 6/12/2017 | 0.2 (J) | 0.14 (J) |
| 8/16/2017 | 0.52 (J) | 0.32 (J) |
| 5/8/2018 | 0.16 (J) | 0.2 (J) |
| 8/14/2018 | <0.19 (U) | 0.22 (J) |
| 10/10/2018 | 0.082 (J) | 0.78 (J) |
| 4/4/2019 | <0.98 (U) | <0.98 (U) |
| 10/11/2019 | <0.98 (U) | <0.98 (U) |
| 6/2/2020 | <1.1 (U) | <1.1 (U) |
| 10/14/2020 | <1.1 (U) | <1.1 (U) |

Time Series

Constituent: Cobalt (ug/L) Analysis Run 8/6/2021 11:14 AM View: Background
Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

| | MW-310 (bg) | MW-311 (bg) |
|------------|-------------|-------------|
| 4/21/2016 | 2.6 | 0.52 (J) |
| 6/7/2016 | 2.7 | <0.5 (U) |
| 8/16/2016 | 1.8 | <0.5 (U) |
| 10/3/2016 | 2 | <0.5 (U) |
| 1/9/2017 | 1.6 | <0.5 (U) |
| 4/4/2017 | 1.9 | 0.27 (J) |
| 6/12/2017 | 1.4 | 0.35 (J) |
| 8/16/2017 | 1.8 | 0.24 (J) |
| 5/8/2018 | 1.2 | 0.3 (J) |
| 8/14/2018 | 1.4 | 0.37 (J) |
| 10/10/2018 | 1.4 | 0.57 (J) |
| 4/4/2019 | 1.9 | 0.45 (J) |
| 10/11/2019 | 1.9 | 0.27 (J) |
| 6/2/2020 | 2.3 | 0.81 |
| 10/14/2020 | 1.5 | |

Time Series

Constituent: Field pH (Std. Units) Analysis Run 8/6/2021 11:14 AM View: Background
Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

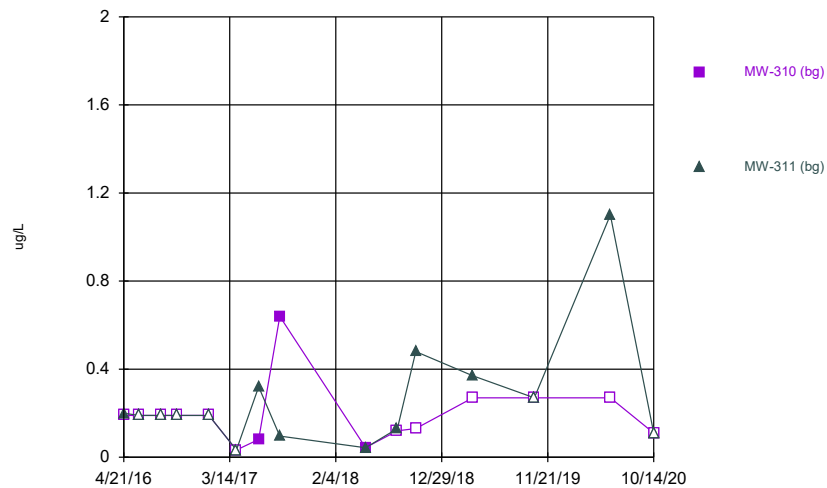
| | MW-310 (bg) | MW-311 (bg) |
|------------|-------------|-------------|
| 4/21/2016 | 7.1 | 7 |
| 6/7/2016 | 7 | 7.2 |
| 8/16/2016 | 7 | 7.1 |
| 10/3/2016 | 7.2 | 7.2 |
| 1/9/2017 | 7.2 | 7.5 |
| 4/4/2017 | 7.3 | 7.1 |
| 6/12/2017 | 6.9 | 7 |
| 8/16/2017 | 7.1 | 7.2 |
| 10/16/2017 | 7.1 | 7.4 |
| 5/8/2018 | 7.4 | 7.4 |
| 8/14/2018 | 7.3 | 7.2 |
| 10/10/2018 | 7.1 | 7.1 |
| 4/4/2019 | 7 | 7 |
| 10/11/2019 | 7.2 | 7.2 |
| 6/2/2020 | 7.1 | 7 |
| 10/14/2020 | 7.34 | 7.41 |

Time Series

Constituent: Fluoride (mg/L) Analysis Run 8/6/2021 11:14 AM View: Background
Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

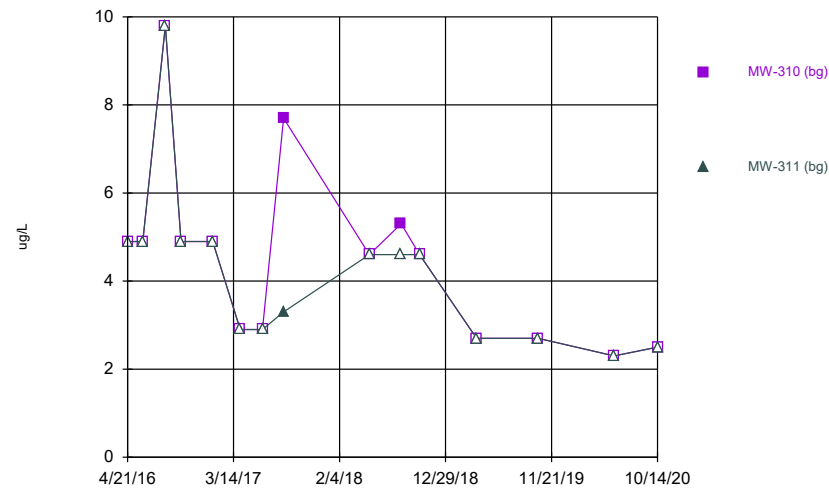
| | MW-310 (bg) | MW-311 (bg) |
|------------|-------------|-------------|
| 4/21/2016 | 0.39 | 0.38 |
| 6/7/2016 | 0.28 | 0.27 |
| 8/16/2016 | 0.29 | 0.28 |
| 10/3/2016 | 0.34 | 0.35 |
| 1/9/2017 | 0.33 | 0.32 |
| 4/4/2017 | 0.26 | 0.27 |
| 6/12/2017 | 0.32 | 0.36 |
| 8/16/2017 | 0.32 | 0.36 |
| 10/16/2017 | 0.39 | 0.36 |
| 5/8/2018 | 0.33 | 0.31 |
| 8/14/2018 | 0.39 | 0.36 |
| 10/10/2018 | 0.4 | 0.35 |
| 4/4/2019 | 0.55 | 0.41 (J) |
| 10/11/2019 | 0.34 (J) | 0.37 (J) |
| 6/2/2020 | 0.65 | 0.64 |
| 10/14/2020 | <0.23 (U) | <0.23 (U) |

Lead



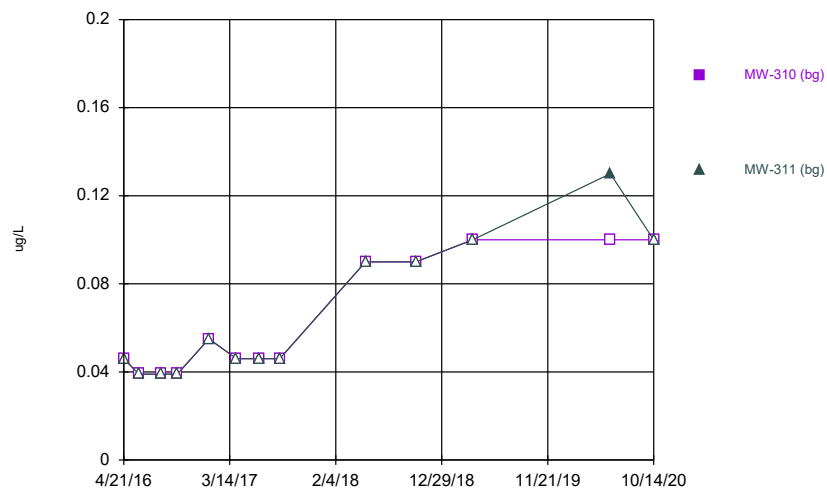
Time Series Analysis Run 8/6/2021 11:13 AM View: Background
Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

Lithium



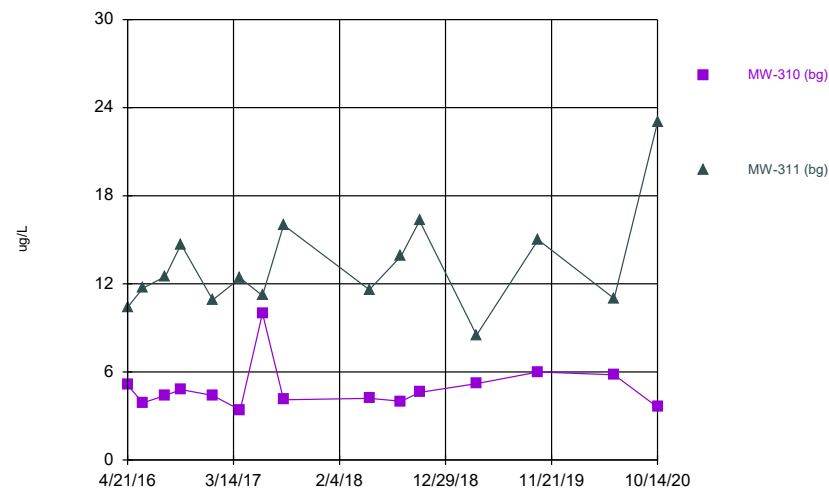
Time Series Analysis Run 8/6/2021 11:13 AM View: Background
Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

Mercury



Time Series Analysis Run 8/6/2021 11:14 AM View: Background
Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

Molybdenum



Time Series Analysis Run 8/6/2021 11:14 AM View: Background
Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

Time Series

Constituent: Lead (ug/L) Analysis Run 8/6/2021 11:14 AM View: Background
Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

| | MW-310 (bg) | MW-311 (bg) |
|------------|-------------|-------------|
| 4/21/2016 | <0.19 (U) | 0.2 (J) |
| 6/7/2016 | <0.19 (U) | <0.19 (U) |
| 8/16/2016 | <0.19 (U) | <0.19 (U) |
| 10/3/2016 | <0.19 (U) | <0.19 (U) |
| 1/9/2017 | <0.19 (U) | <0.19 (U) |
| 4/4/2017 | <0.033 (U) | <0.033 (U) |
| 6/12/2017 | 0.081 (J) | 0.32 (J) |
| 8/16/2017 | 0.64 (J) | 0.096 (J) |
| 5/8/2018 | 0.044 (J) | 0.043 (J) |
| 8/14/2018 | <0.12 (U) | 0.13 (J) |
| 10/10/2018 | <0.13 (U) | 0.48 (J) |
| 4/4/2019 | <0.27 (U) | 0.37 (J) |
| 10/11/2019 | <0.27 (U) | <0.27 (U) |
| 6/2/2020 | <0.27 (U) | 1.1 |
| 10/14/2020 | <0.11 (U) | <0.11 (U) |

Time Series

Constituent: Lithium (ug/L) Analysis Run 8/6/2021 11:14 AM View: Background
Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

| | MW-310 (bg) | MW-311 (bg) |
|------------|-------------|-------------|
| 4/21/2016 | <4.9 (U) | <4.9 (U) |
| 6/7/2016 | <4.9 (U) | <4.9 (U) |
| 8/16/2016 | <9.8 (U) | <9.8 (U) |
| 10/3/2016 | <4.9 (U) | <4.9 (U) |
| 1/9/2017 | <4.9 (U) | <4.9 (U) |
| 4/4/2017 | <2.9 (U) | <2.9 (U) |
| 6/12/2017 | <2.9 (U) | <2.9 (U) |
| 8/16/2017 | 7.7 (J) | 3.3 (J) |
| 5/8/2018 | <4.6 (U) | <4.6 (U) |
| 8/14/2018 | 5.3 (J) | <4.6 (U) |
| 10/10/2018 | <4.6 (U) | <4.6 (U) |
| 4/4/2019 | <2.7 (U) | <2.7 (U) |
| 10/11/2019 | <2.7 (U) | <2.7 (U) |
| 6/2/2020 | <2.3 (U) | <2.3 (U) |
| 10/14/2020 | <2.5 (U) | <2.5 (U) |

Time Series

Constituent: Mercury (ug/L) Analysis Run 8/6/2021 11:14 AM View: Background
Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

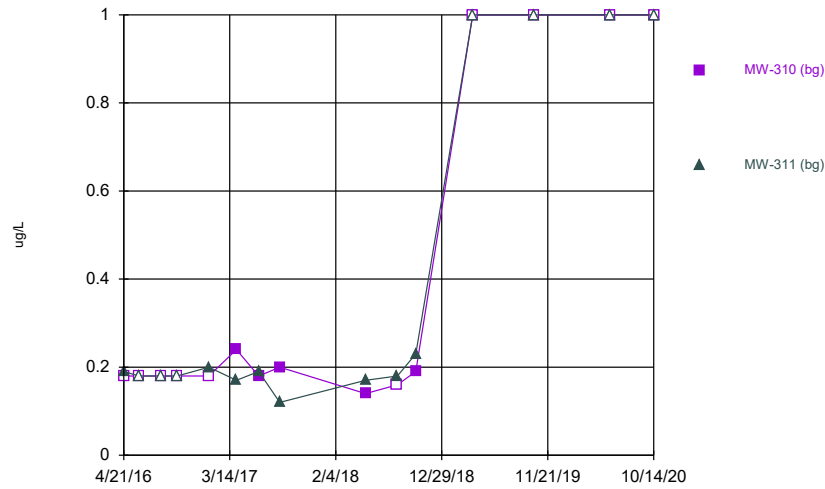
| | MW-310 (bg) | MW-311 (bg) |
|------------|-------------|-------------|
| 4/21/2016 | <0.046 (U) | <0.046 (U) |
| 6/7/2016 | <0.039 (U) | <0.039 (U) |
| 8/16/2016 | <0.039 (U) | <0.039 (U) |
| 10/3/2016 | <0.039 (U) | <0.039 (U) |
| 1/9/2017 | <0.055 (U) | <0.055 (U) |
| 4/4/2017 | <0.046 (U) | <0.046 (U) |
| 6/12/2017 | <0.046 (U) | <0.046 (U) |
| 8/16/2017 | <0.046 (U) | <0.046 (U) |
| 5/8/2018 | <0.09 (U) | <0.09 (U) |
| 10/10/2018 | <0.09 (U) | <0.09 (U) |
| 4/4/2019 | <0.1 (U) | <0.1 (U) |
| 6/2/2020 | <0.1 (U) | 0.13 (J) |
| 10/14/2020 | <0.1 (U) | <0.1 (U) |

Time Series

Constituent: Molybdenum (ug/L) Analysis Run 8/6/2021 11:14 AM View: Background
Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

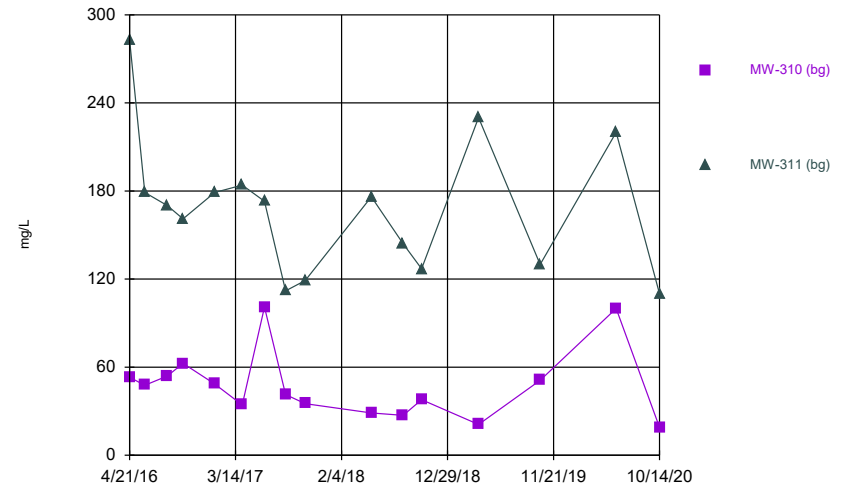
| | MW-310 (bg) | MW-311 (bg) |
|------------|-------------|-------------|
| 4/21/2016 | 5.1 | 10.4 |
| 6/7/2016 | 3.9 | 11.7 |
| 8/16/2016 | 4.4 | 12.5 |
| 10/3/2016 | 4.8 | 14.7 |
| 1/9/2017 | 4.4 | 10.9 |
| 4/4/2017 | 3.4 | 12.4 |
| 6/12/2017 | 10 | 11.2 |
| 8/16/2017 | 4.1 | 16 |
| 5/8/2018 | 4.2 | 11.6 |
| 8/14/2018 | 4 | 13.9 |
| 10/10/2018 | 4.6 | 16.3 |
| 4/4/2019 | 5.2 | 8.5 |
| 10/11/2019 | 6 | 15 |
| 6/2/2020 | 5.8 | 11 |
| 10/14/2020 | 3.6 | 23 |

Selenium



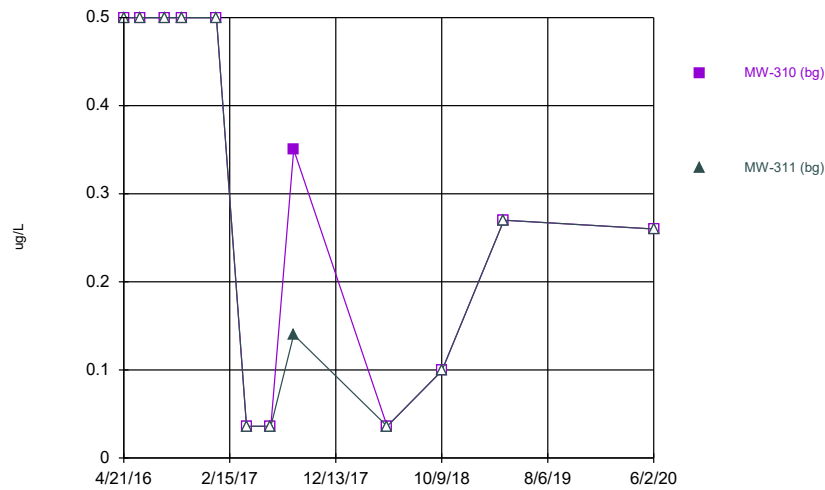
Time Series Analysis Run 8/6/2021 11:14 AM View: Background
 Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

Sulfate



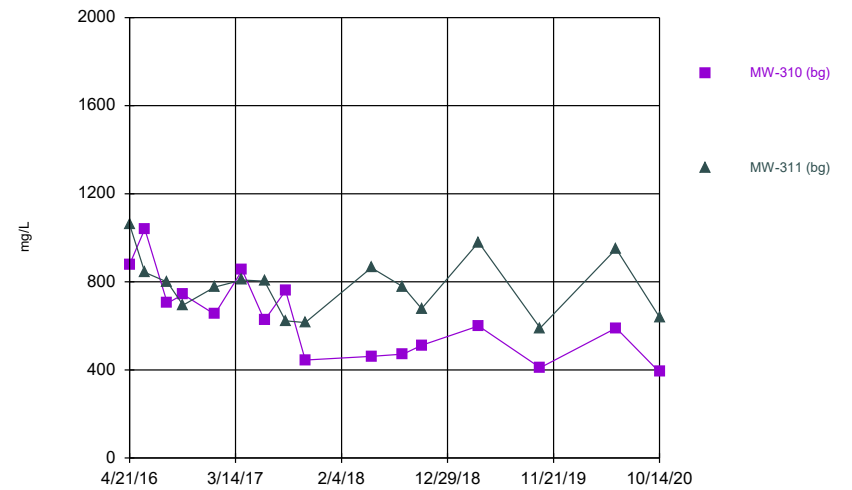
Time Series Analysis Run 8/6/2021 11:14 AM View: Background
 Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

Thallium



Time Series Analysis Run 8/6/2021 11:14 AM View: Background
 Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

Total Dissolved Solids



Time Series Analysis Run 8/6/2021 11:14 AM View: Background
 Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

Time Series

Constituent: Selenium (ug/L) Analysis Run 8/6/2021 11:14 AM View: Background
Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

| | MW-310 (bg) | MW-311 (bg) |
|------------|-------------|-------------|
| 4/21/2016 | <0.18 (U) | 0.19 (J) |
| 6/7/2016 | <0.18 (U) | <0.18 (U) |
| 8/16/2016 | <0.18 (U) | <0.18 (U) |
| 10/3/2016 | <0.18 (U) | <0.18 (U) |
| 1/9/2017 | <0.18 (U) | 0.2 (J) |
| 4/4/2017 | 0.24 (J) | 0.17 (J) |
| 6/12/2017 | 0.18 (J) | 0.19 (J) |
| 8/16/2017 | 0.2 (J) | 0.12 (J) |
| 5/8/2018 | 0.14 (J) | 0.17 (J) |
| 8/14/2018 | <0.16 (U) | 0.18 (J) |
| 10/10/2018 | 0.19 (J) | 0.23 (J) |
| 4/4/2019 | <1 (U) | <1 (U) |
| 10/11/2019 | <1 (U) | <1 (U) |
| 6/2/2020 | <1 (U) | <1 (U) |
| 10/14/2020 | <1 (U) | <1 (U) |

Time Series

Constituent: Sulfate (mg/L) Analysis Run 8/6/2021 11:14 AM View: Background
Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

| | MW-310 (bg) | MW-311 (bg) |
|------------|-------------|-------------|
| 4/21/2016 | 53.1 | 283 |
| 6/7/2016 | 47.7 | 179 |
| 8/16/2016 | 54 | 170 |
| 10/3/2016 | 62.6 | 161 |
| 1/9/2017 | 48.5 | 179 |
| 4/4/2017 | 34.3 | 184 |
| 6/12/2017 | 101 | 173 |
| 8/16/2017 | 41.3 | 112 |
| 10/16/2017 | 35.1 | 119 |
| 5/8/2018 | 28.8 | 176 |
| 8/14/2018 | 27.2 | 144 |
| 10/10/2018 | 37.9 | 127 |
| 4/4/2019 | 21 | 230 |
| 10/11/2019 | 51 | 130 |
| 6/2/2020 | 100 | 220 |
| 10/14/2020 | 19 | 110 |

Time Series

Constituent: Thallium (ug/L) Analysis Run 8/6/2021 11:14 AM View: Background
Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

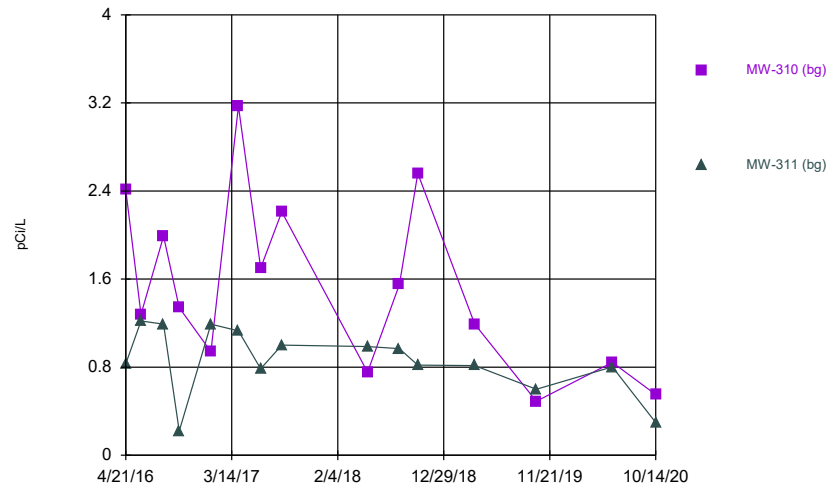
| | MW-310 (bg) | MW-311 (bg) |
|------------|-------------|-------------|
| 4/21/2016 | <0.5 (U) | <0.5 (U) |
| 6/7/2016 | <0.5 (U) | <0.5 (U) |
| 8/16/2016 | <0.5 (U) | <0.5 (U) |
| 10/3/2016 | <0.5 (U) | <0.5 (U) |
| 1/9/2017 | <0.5 (U) | <0.5 (U) |
| 4/4/2017 | <0.036 (U) | <0.036 (U) |
| 6/12/2017 | <0.036 (U) | <0.036 (U) |
| 8/16/2017 | 0.35 (J) | 0.14 (J) |
| 5/8/2018 | <0.036 (U) | <0.036 (U) |
| 10/10/2018 | <0.099 (U) | <0.099 (U) |
| 4/4/2019 | <0.27 (U) | <0.27 (U) |
| 6/2/2020 | <0.26 (U) | <0.26 (U) |

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 8/6/2021 11:14 AM View: Background
Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

| | MW-310 (bg) | MW-311 (bg) |
|------------|-------------|-------------|
| 4/21/2016 | 879 | 1060 |
| 6/7/2016 | 1040 | 843 |
| 8/16/2016 | 703 | 799 |
| 10/3/2016 | 743 | 694 |
| 1/9/2017 | 653 | 776 |
| 4/4/2017 | 853 | 808 |
| 6/12/2017 | 625 | 803 |
| 8/16/2017 | 760 | 623 |
| 10/16/2017 | 445 | 615 |
| 5/8/2018 | 462 | 864 |
| 8/14/2018 | 472 | 777 |
| 10/10/2018 | 512 | 678 |
| 4/4/2019 | 600 | 980 |
| 10/11/2019 | 410 | 590 |
| 6/2/2020 | 590 | 950 |
| 10/14/2020 | 390 | 640 |

Total Radium



Time Series Analysis Run 8/6/2021 11:14 AM View: Background
Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

Time Series

Constituent: Total Radium (pCi/L) Analysis Run 8/6/2021 11:14 AM View: Background
Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

| | MW-310 (bg) | MW-311 (bg) |
|------------|-------------|-------------|
| 4/21/2016 | 2.41 | 0.831 |
| 6/7/2016 | 1.28 | 1.22 |
| 8/16/2016 | 1.99 | 1.19 |
| 10/3/2016 | 1.34 | 0.22 |
| 1/9/2017 | 0.941 | 1.19 |
| 4/4/2017 | 3.17 | 1.13 |
| 6/12/2017 | 1.7 | 0.785 |
| 8/16/2017 | 2.21 | 1 |
| 5/8/2018 | 0.755 | 0.987 |
| 8/14/2018 | 1.55 | 0.969 |
| 10/10/2018 | 2.56 | 0.819 |
| 4/4/2019 | 1.19 | 0.815 |
| 10/11/2019 | 0.49 | 0.599 |
| 6/2/2020 | 0.844 | 0.802 |
| 10/14/2020 | 0.552 | 0.297 |

Attachment 2

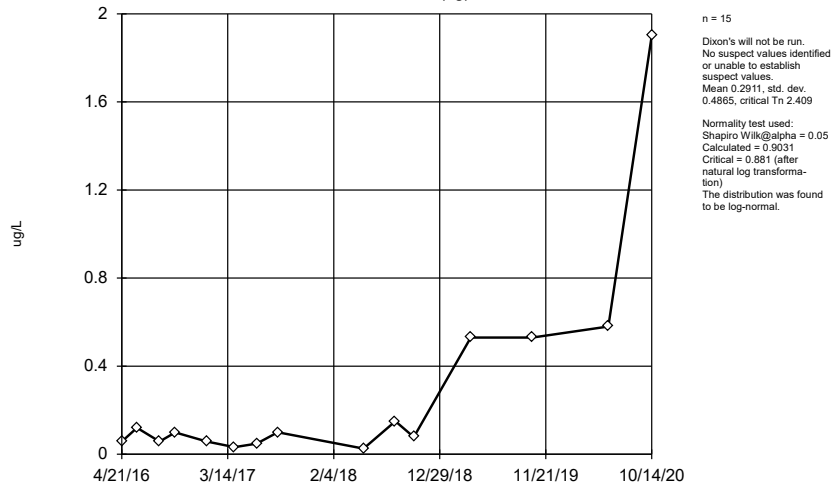
Outlier Analysis

Outlier Analysis

Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev Printed 8/6/2021, 10:52 AM

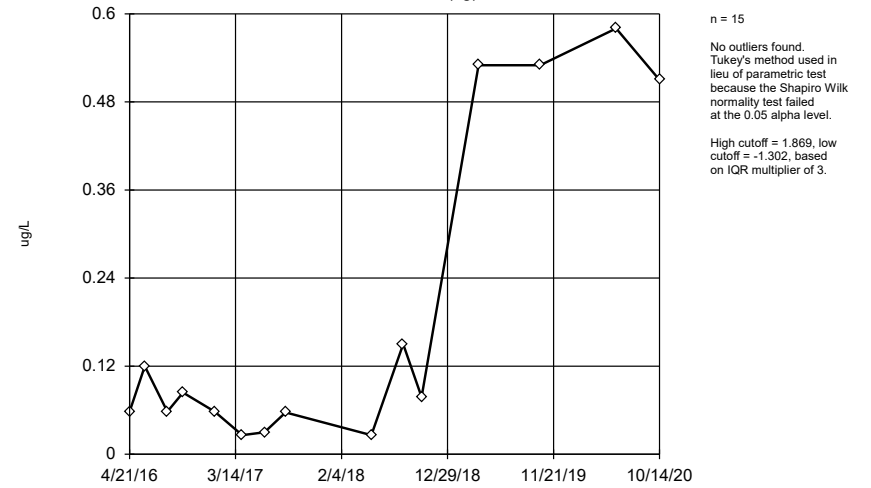
| <u>Constituent</u> | <u>Well</u> | <u>Outlier</u> | <u>Value(s)</u> | <u>Date(s)</u> | <u>Method</u> | <u>Alpha</u> | <u>N</u> | <u>Mean</u> | <u>Std. Dev.</u> | <u>Distribution</u> | <u>Normality Test</u> |
|-------------------------------|--------------------|----------------|---------------------|---------------------|----------------|--------------|-----------|---------------|------------------|---------------------|-----------------------|
| Antimony (ug/L) | MW-310 (bg) | No | n/a | n/a | EPA 1989 | 0.05 | 15 | 0.2911 | 0.4865 | ln(x) | ShapiroWilk |
| Antimony (ug/L) | MW-311 (bg) | No | n/a | n/a | NP (nrm) | NaN | 15 | 0.193 | 0.218 | unknown | ShapiroWilk |
| Arsenic (ug/L) | MW-310 (bg) | No | n/a | n/a | EPA 1989 | 0.05 | 15 | 64.24 | 6.873 | normal | ShapiroWilk |
| Arsenic (ug/L) | MW-311 (bg) | No | n/a | n/a | EPA 1989 | 0.05 | 15 | 15.79 | 2.328 | normal | ShapiroWilk |
| Barium (ug/L) | MW-310 (bg) | No | n/a | n/a | EPA 1989 | 0.05 | 15 | 593.8 | 152.7 | normal | ShapiroWilk |
| Barium (ug/L) | MW-311 (bg) | No | n/a | n/a | EPA 1989 | 0.05 | 15 | 243.3 | 29.35 | normal | ShapiroWilk |
| Beryllium (ug/L) | MW-310 (bg) | No | n/a | n/a | NP (nrm) | NaN | 15 | 0.1163 | 0.1014 | unknown | ShapiroWilk |
| Beryllium (ug/L) | MW-311 (bg) | No | n/a | n/a | EPA 1989 | 0.05 | 15 | 0.1182 | 0.09946 | ln(x) | ShapiroWilk |
| Boron (ug/L) | MW-310 (bg) | Yes | 2210 | 6/12/2017 | Dixon`s | 0.05 | 16 | 490.8 | 468.5 | normal | ShapiroWilk |
| Boron (ug/L) | MW-311 (bg) | Yes | 360 | 8/16/2017 | Dixon`s | 0.05 | 16 | 2326 | 689.3 | normal | ShapiroWilk |
| Cadmium (ug/L) | MW-310 (bg) | No | n/a | n/a | EPA 1989 | 0.05 | 15 | 0.0354 | 0.01766 | ln(x) | ShapiroWilk |
| Cadmium (ug/L) | MW-311 (bg) | No | n/a | n/a | EPA 1989 | 0.05 | 15 | 0.03493 | 0.01804 | ln(x) | ShapiroWilk |
| Calcium (mg/L) | MW-310 (bg) | No | n/a | n/a | EPA 1989 | 0.05 | 16 | 132.1 | 28.93 | normal | ShapiroWilk |
| Calcium (mg/L) | MW-311 (bg) | No | n/a | n/a | EPA 1989 | 0.05 | 16 | 162.1 | 21.1 | normal | ShapiroWilk |
| Chloride (mg/L) | MW-310 (bg) | No | n/a | n/a | EPA 1989 | 0.05 | 16 | 95.01 | 55.18 | normal | ShapiroWilk |
| Chloride (mg/L) | MW-311 (bg) | No | n/a | n/a | EPA 1989 | 0.05 | 16 | 77.46 | 23.38 | normal | ShapiroWilk |
| Chromium (ug/L) | MW-310 (bg) | No | n/a | n/a | EPA 1989 | 0.05 | 15 | 0.5321 | 0.3698 | ln(x) | ShapiroWilk |
| Chromium (ug/L) | MW-311 (bg) | No | n/a | n/a | EPA 1989 | 0.05 | 15 | 0.538 | 0.3513 | ln(x) | ShapiroWilk |
| Cobalt (ug/L) | MW-310 (bg) | No | n/a | n/a | EPA 1989 | 0.05 | 15 | 1.827 | 0.4415 | normal | ShapiroWilk |
| Cobalt (ug/L) | MW-311 (bg) | No | n/a | n/a | NP (nrm) | NaN | 14 | 0.3679 | 0.1669 | unknown | ShapiroWilk |
| Field pH (Std. Units) | MW-310 (bg) | No | n/a | n/a | EPA 1989 | 0.05 | 16 | 7.146 | 0.1399 | normal | ShapiroWilk |
| Field pH (Std. Units) | MW-311 (bg) | No | n/a | n/a | EPA 1989 | 0.05 | 16 | 7.188 | 0.1637 | ln(x) | ShapiroWilk |
| Fluoride (mg/L) | MW-310 (bg) | Yes | 0.55,0.65... | 4/4/2019,... | Dixon`s | 0.05 | 16 | 0.3559 | 0.1187 | normal | ShapiroWilk |
| Fluoride (mg/L) | MW-311 (bg) | Yes | 0.64,0.115 | 6/2/2020,... | Dixon`s | 0.05 | 16 | 0.3441 | 0.1046 | normal | ShapiroWilk |
| Lead (ug/L) | MW-310 (bg) | No | n/a | n/a | EPA 1989 | 0.05 | 15 | 0.1945 | 0.1449 | ln(x) | ShapiroWilk |
| Lead (ug/L) | MW-311 (bg) | No | n/a | n/a | EPA 1989 | 0.05 | 15 | 0.2608 | 0.2616 | ln(x) | ShapiroWilk |
| Lithium (ug/L) | MW-310 (bg) | No | n/a | n/a | EPA 1989 | 0.05 | 15 | 4.507 | 2.071 | ln(x) | ShapiroWilk |
| Lithium (ug/L) | MW-311 (bg) | n/a | n/a | n/a | NP (nrm) | NaN | 15 | 4.167 | 1.87 | unknown | ShapiroWilk |
| Mercury (ug/L) | MW-310 (bg) | No | n/a | n/a | NP (nrm) | NaN | 13 | 0.06431 | 0.0266 | unknown | ShapiroWilk |
| Mercury (ug/L) | MW-311 (bg) | No | n/a | n/a | NP (nrm) | NaN | 13 | 0.06662 | 0.03091 | unknown | ShapiroWilk |
| Molybdenum (ug/L) | MW-310 (bg) | Yes | 10 | 6/12/2017 | Dixon`s | 0.05 | 15 | 4.9 | 1.596 | normal | ShapiroWilk |
| Molybdenum (ug/L) | MW-311 (bg) | Yes | 23 | 10/14/2020 | Dixon`s | 0.05 | 15 | 13.27 | 3.478 | normal | ShapiroWilk |
| Selenium (ug/L) | MW-310 (bg) | n/a | n/a | n/a | NP (nrm) | NaN | 15 | 0.4007 | 0.3747 | unknown | ShapiroWilk |
| Selenium (ug/L) | MW-311 (bg) | n/a | n/a | n/a | NP (nrm) | NaN | 15 | 0.3993 | 0.3756 | unknown | ShapiroWilk |
| Sulfate (mg/L) | MW-310 (bg) | No | n/a | n/a | EPA 1989 | 0.05 | 16 | 47.66 | 24.04 | ln(x) | ShapiroWilk |
| Sulfate (mg/L) | MW-311 (bg) | No | n/a | n/a | EPA 1989 | 0.05 | 16 | 168.6 | 46.91 | normal | ShapiroWilk |
| Thallium (ug/L) | MW-310 (bg) | No | n/a | n/a | NP (nrm) | NaN | 12 | 0.2989 | 0.2033 | unknown | ShapiroWilk |
| Thallium (ug/L) | MW-311 (bg) | No | n/a | n/a | NP (nrm) | NaN | 12 | 0.2814 | 0.2075 | unknown | ShapiroWilk |
| Total Dissolved Solids (mg/L) | MW-310 (bg) | No | n/a | n/a | EPA 1989 | 0.05 | 16 | 633.6 | 187.1 | normal | ShapiroWilk |
| Total Dissolved Solids (mg/L) | MW-311 (bg) | No | n/a | n/a | EPA 1989 | 0.05 | 16 | 781.3 | 137.9 | normal | ShapiroWilk |
| Total Radium (pCi/L) | MW-310 (bg) | No | n/a | n/a | EPA 1989 | 0.05 | 15 | 1.532 | 0.7973 | normal | ShapiroWilk |
| Total Radium (pCi/L) | MW-311 (bg) | Yes | 0.297,0.22 | 10/14/202... | Dixon`s | 0.05 | 15 | 0.8569 | 0.3019 | normal | ShapiroWilk |

Antimony
MW-310 (bg)



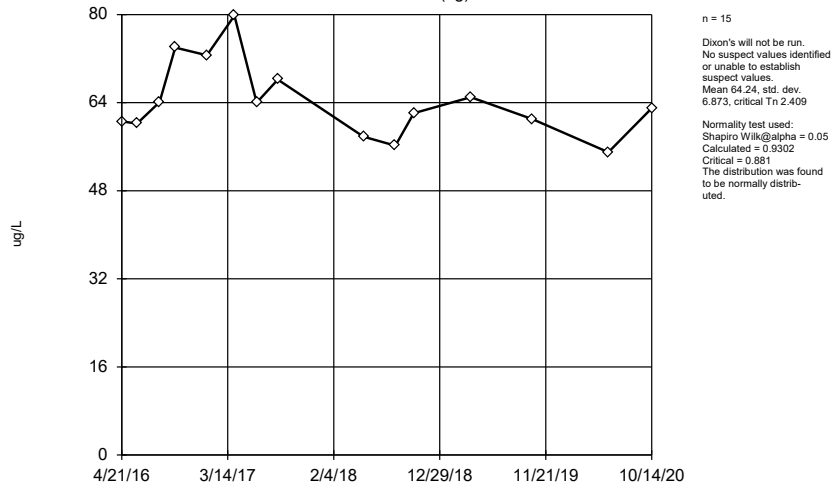
EPA 1989 Outlier Screening Analysis Run 8/6/2021 10:51 AM View: Background
Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

Antimony
MW-311 (bg)



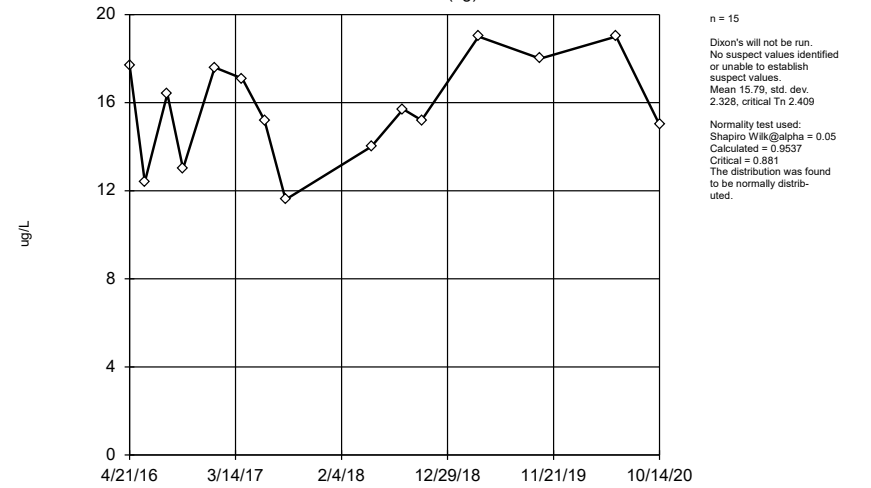
Tukey's Outlier Screening Analysis Run 8/6/2021 10:51 AM View: Background
Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

Arsenic
MW-310 (bg)

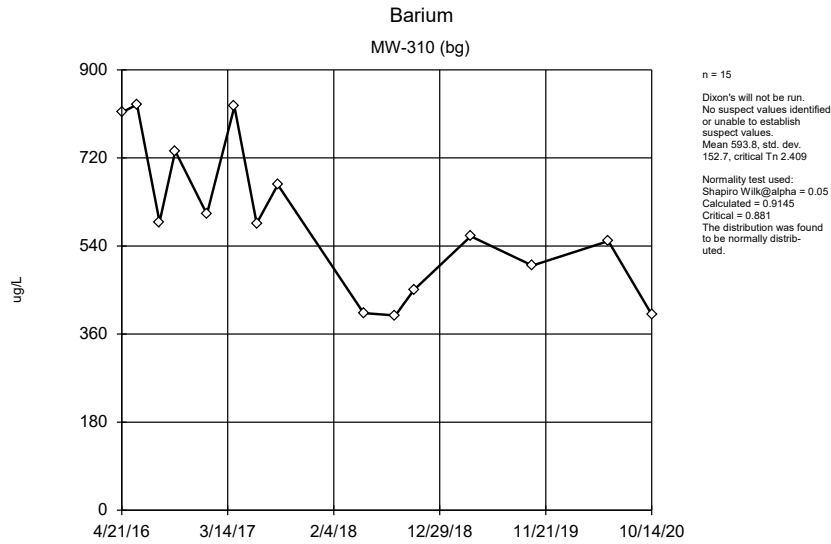


EPA 1989 Outlier Screening Analysis Run 8/6/2021 10:51 AM View: Background
Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

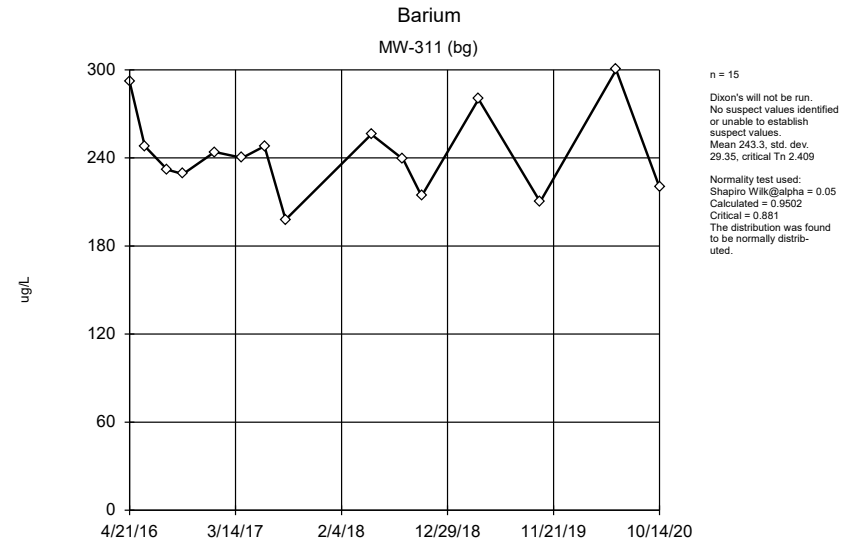
Arsenic
MW-311 (bg)



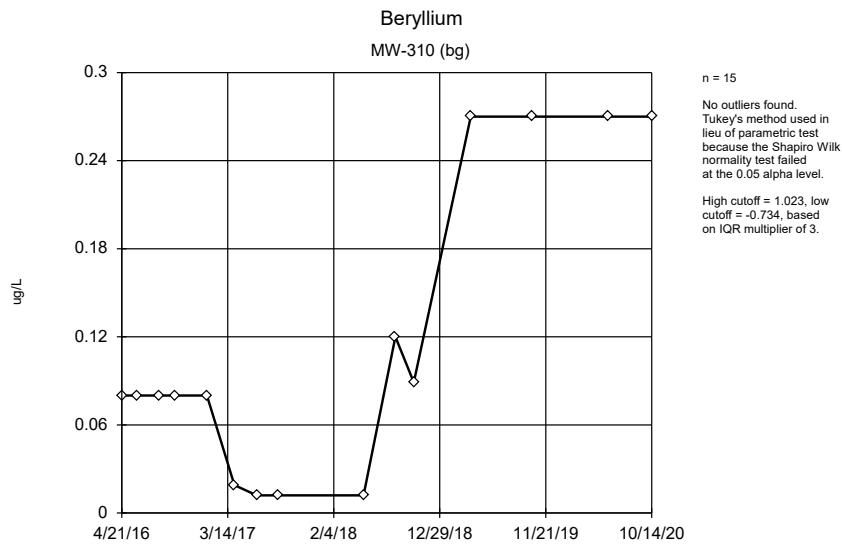
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Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev



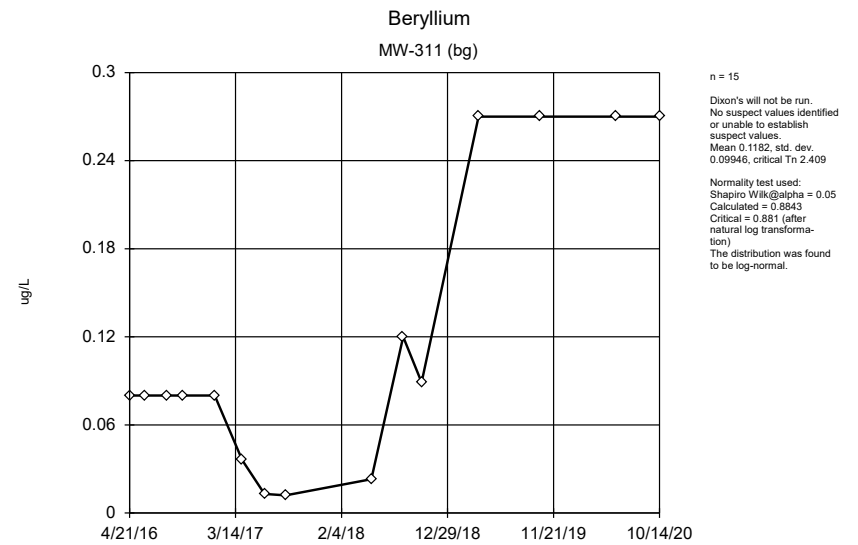
EPA 1989 Outlier Screening Analysis Run 8/6/2021 10:51 AM View: Background
 Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev



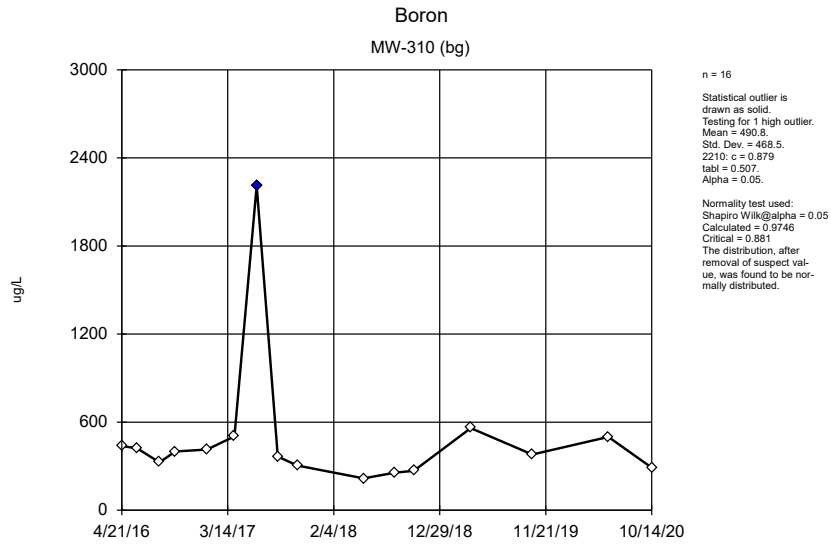
EPA 1989 Outlier Screening Analysis Run 8/6/2021 10:51 AM View: Background
 Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev



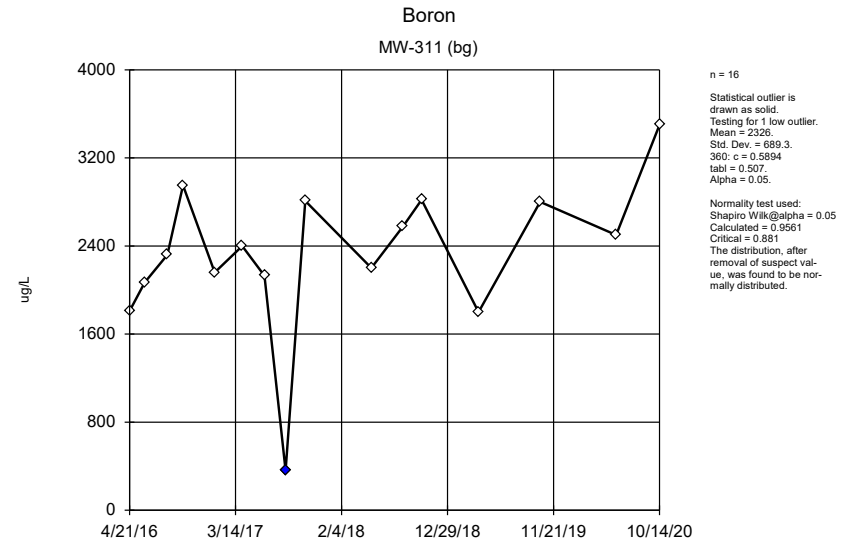
Tukey's Outlier Screening Analysis Run 8/6/2021 10:51 AM View: Background
 Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev



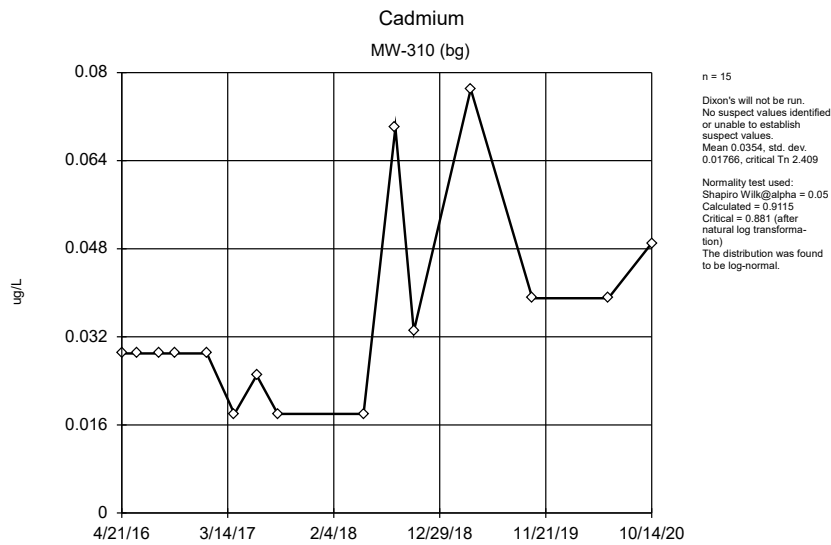
EPA 1989 Outlier Screening Analysis Run 8/6/2021 10:51 AM View: Background
 Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev



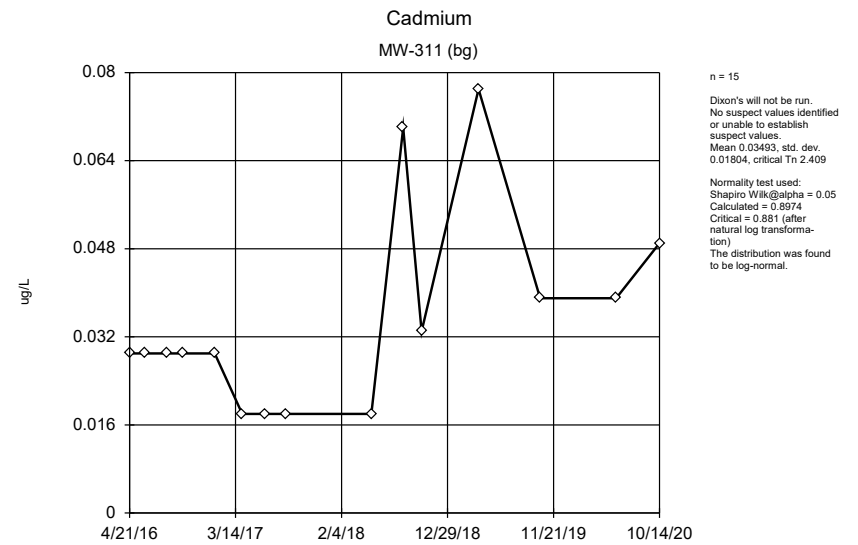
Dixon's Outlier Test Analysis Run 8/6/2021 10:51 AM View: Background
 Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev



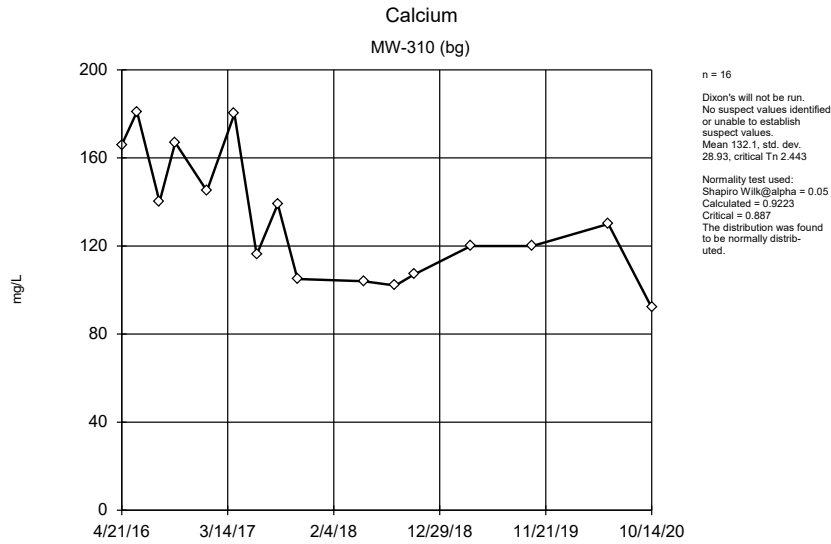
Dixon's Outlier Test Analysis Run 8/6/2021 10:51 AM View: Background
 Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev



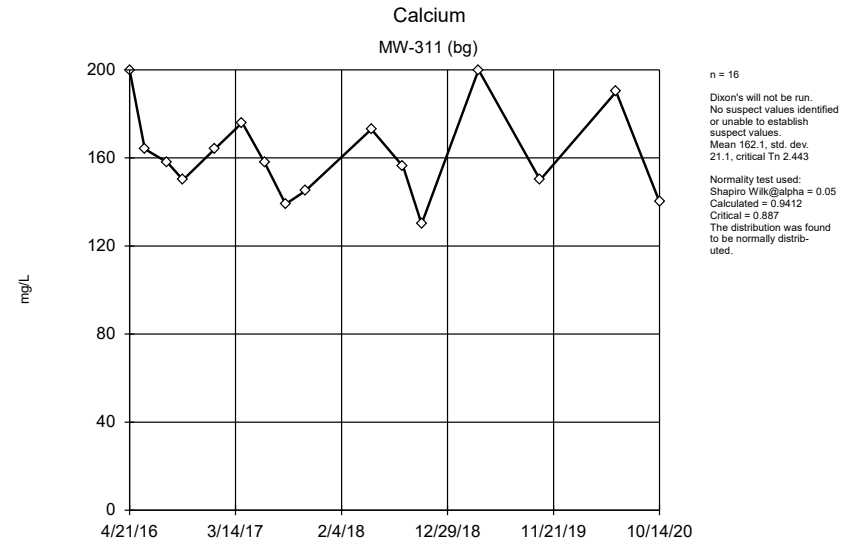
EPA 1989 Outlier Screening Analysis Run 8/6/2021 10:51 AM View: Background
 Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev



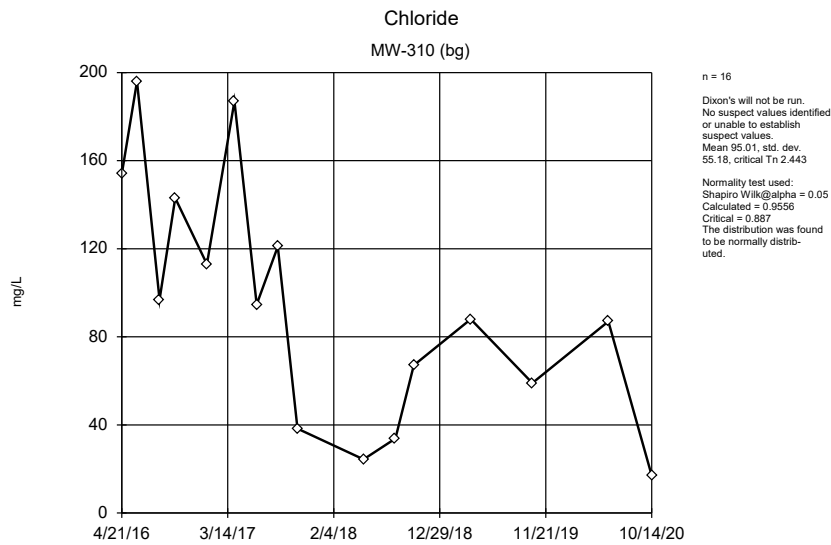
EPA 1989 Outlier Screening Analysis Run 8/6/2021 10:51 AM View: Background
 Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev



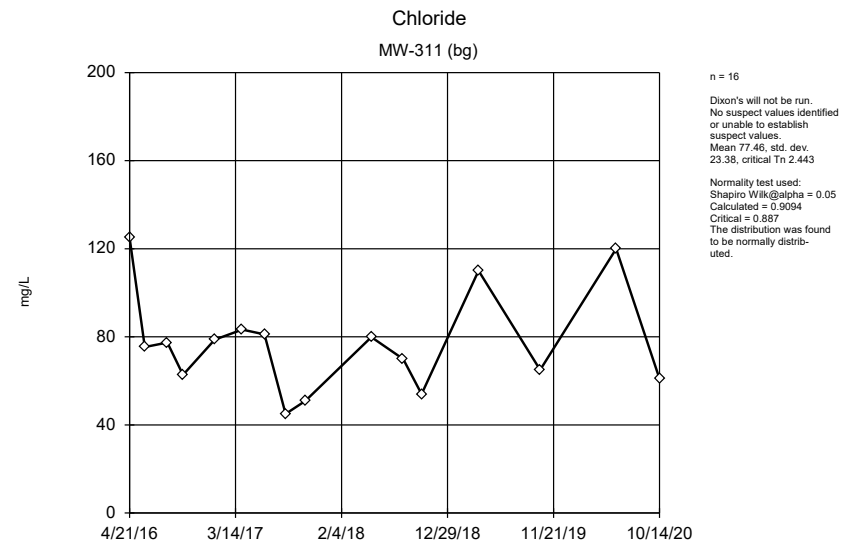
EPA 1989 Outlier Screening Analysis Run 8/6/2021 10:51 AM View: Background
 Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev



EPA 1989 Outlier Screening Analysis Run 8/6/2021 10:51 AM View: Background
 Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

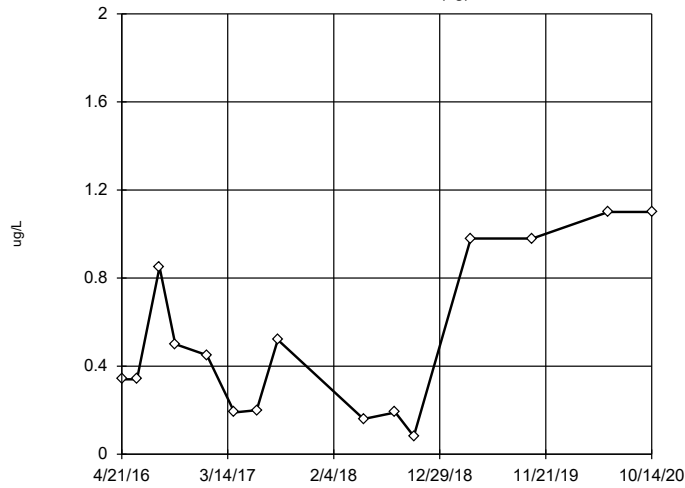


EPA 1989 Outlier Screening Analysis Run 8/6/2021 10:51 AM View: Background
 Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev



EPA 1989 Outlier Screening Analysis Run 8/6/2021 10:51 AM View: Background
 Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

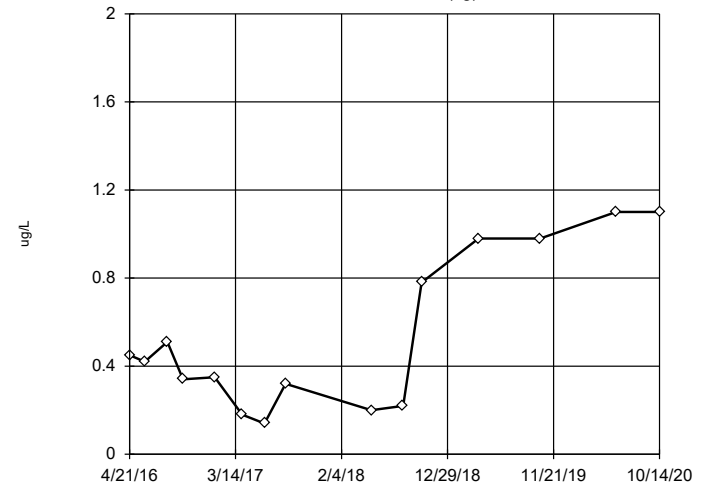
Chromium
MW-310 (bg)



n = 15
Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 0.5321, std. dev. 0.3698, critical Tn 2.409
Normality test used:
Shapiro Wilk@alpha = 0.05
Calculated = 0.9261
Critical = 0.881 (after natural log transformation)
The distribution was found to be log-normal.

EPA 1989 Outlier Screening Analysis Run 8/6/2021 10:51 AM View: Background
Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

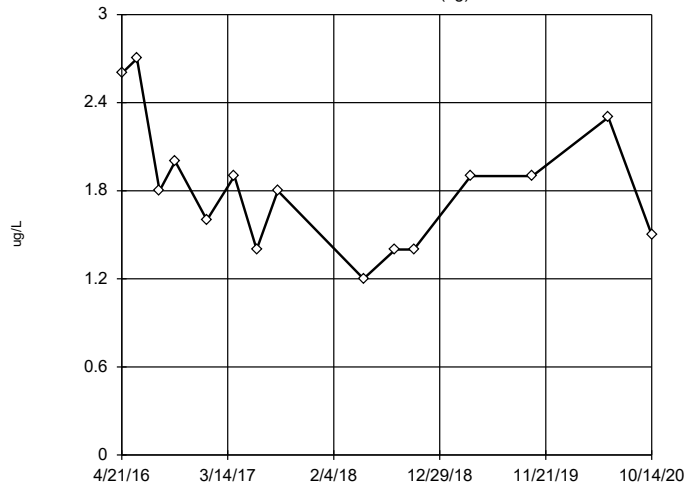
Chromium
MW-311 (bg)



n = 15
Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 0.538, std. dev. 0.3513, critical Tn 2.409
Normality test used:
Shapiro Wilk@alpha = 0.05
Calculated = 0.9299
Critical = 0.881 (after natural log transformation)
The distribution was found to be log-normal.

EPA 1989 Outlier Screening Analysis Run 8/6/2021 10:51 AM View: Background
Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

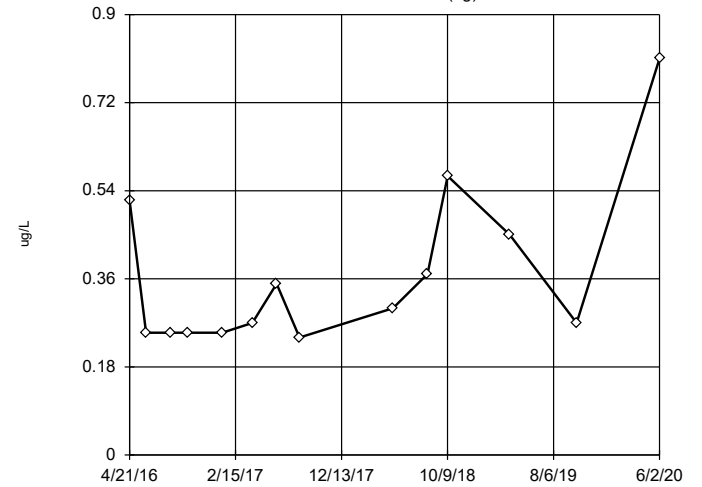
Cobalt
MW-310 (bg)



n = 15
Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 1.827, std. dev. 0.4415, critical Tn 2.409
Normality test used:
Shapiro Wilk@alpha = 0.05
Calculated = 0.9278
Critical = 0.881
The distribution was found to be normally distributed.

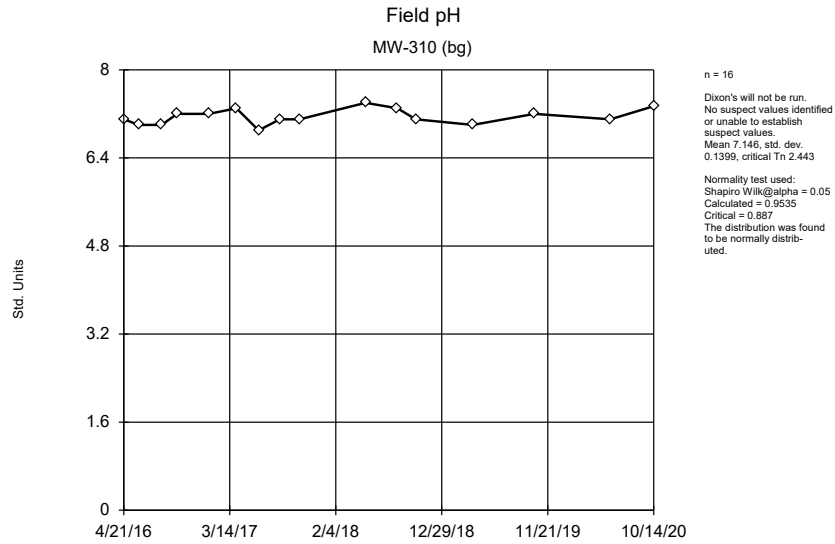
EPA 1989 Outlier Screening Analysis Run 8/6/2021 10:51 AM View: Background
Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

Cobalt
MW-311 (bg)

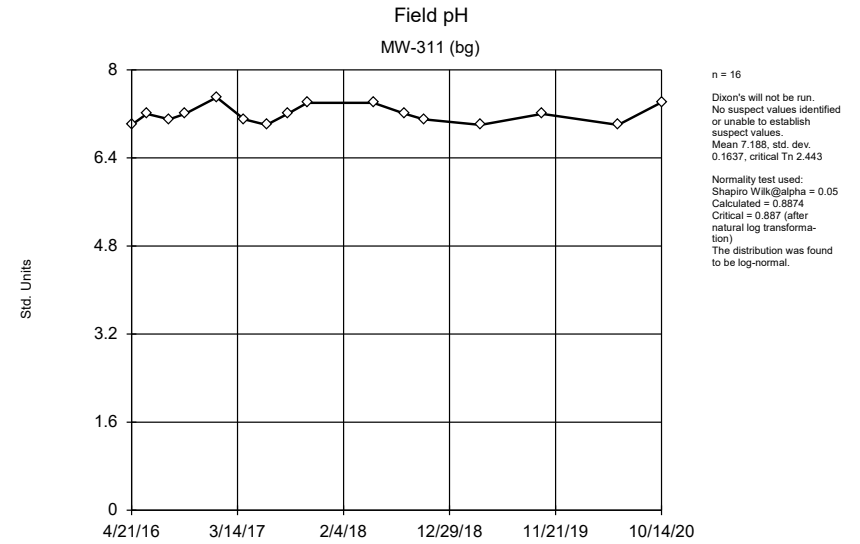


n = 14
No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.05 alpha level.
High cutoff = 1.19, low cutoff = -0.455, based on IQR multiplier of 3.

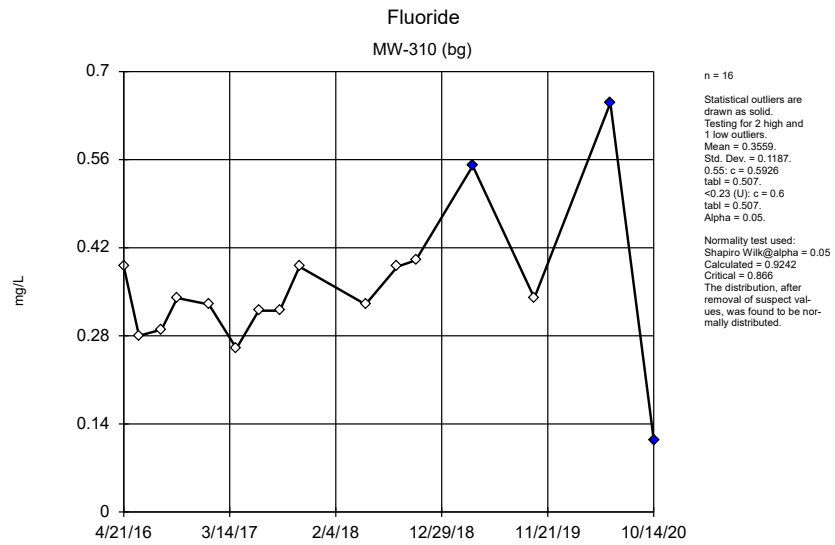
Tukey's Outlier Screening Analysis Run 8/6/2021 10:51 AM View: Background
Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev



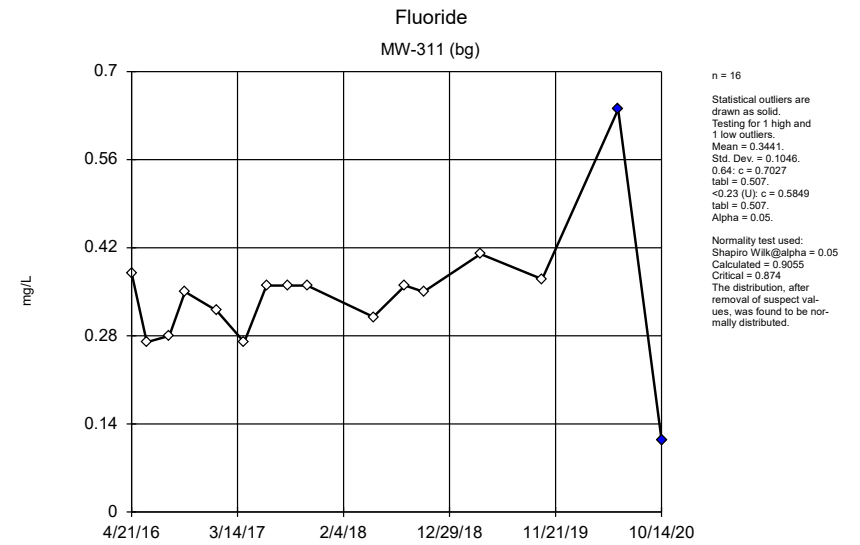
EPA 1989 Outlier Screening Analysis Run 8/6/2021 10:51 AM View: Background
 Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev



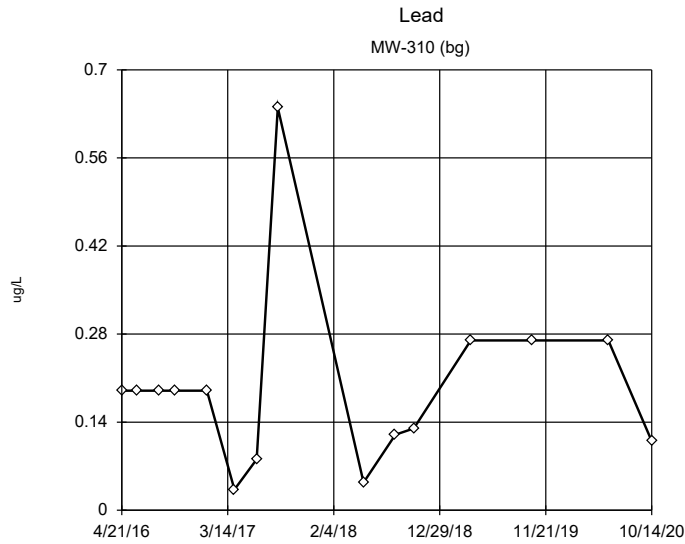
EPA 1989 Outlier Screening Analysis Run 8/6/2021 10:51 AM View: Background
 Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev



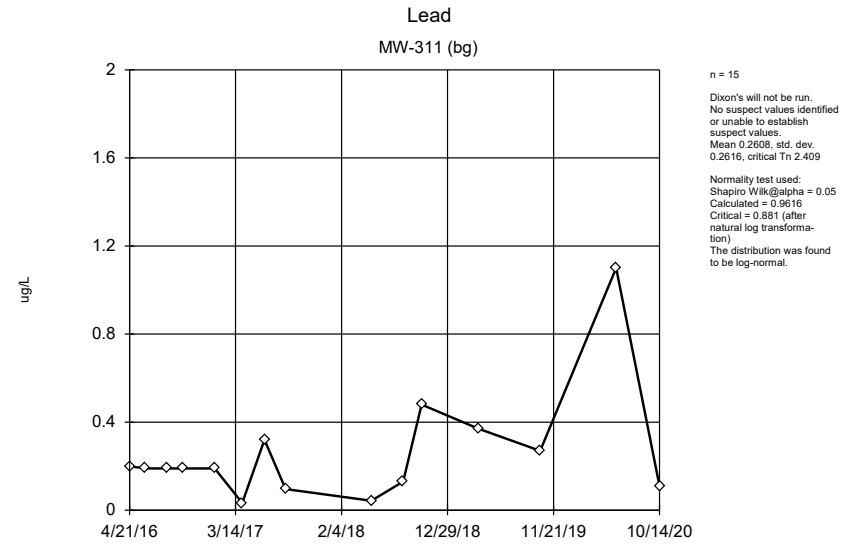
Dixon's Outlier Test Analysis Run 8/6/2021 10:51 AM View: Background
 Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

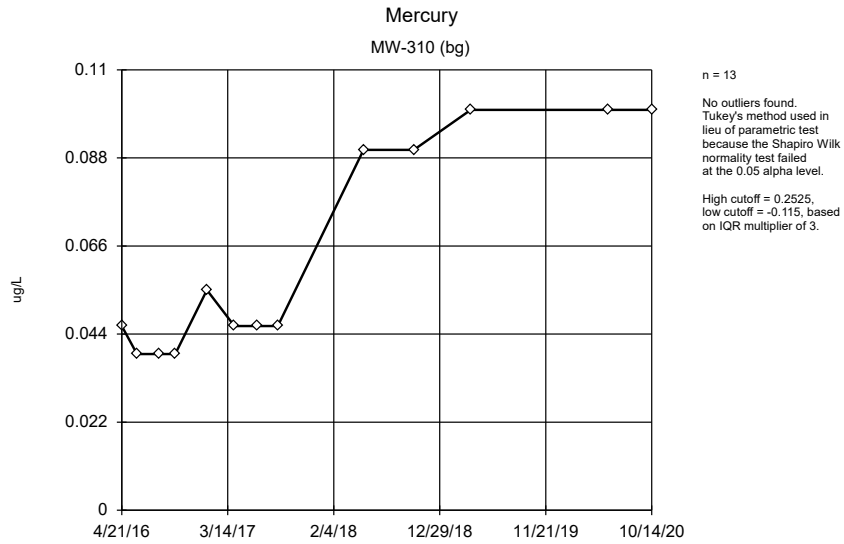


Dixon's Outlier Test Analysis Run 8/6/2021 10:51 AM View: Background
 Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

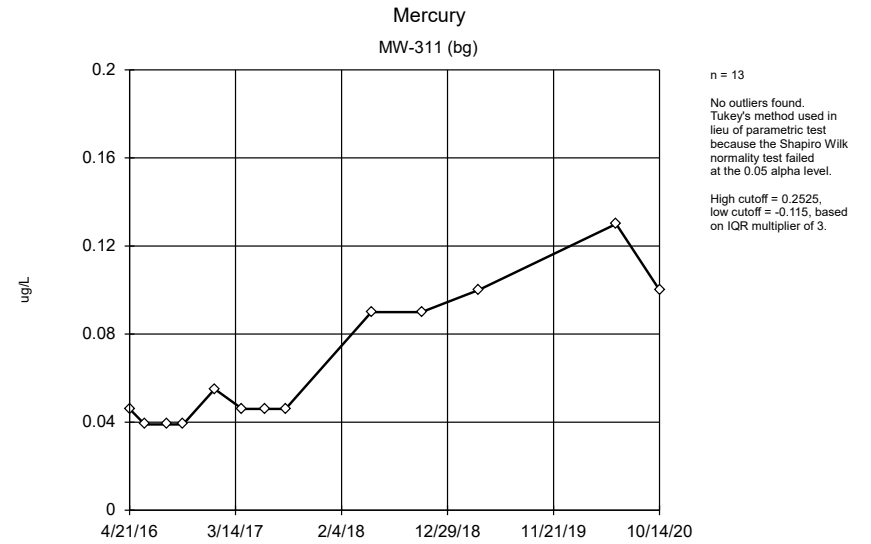


EPA 1989 Outlier Screening Analysis Run 8/6/2021 10:51 AM View: Background
Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

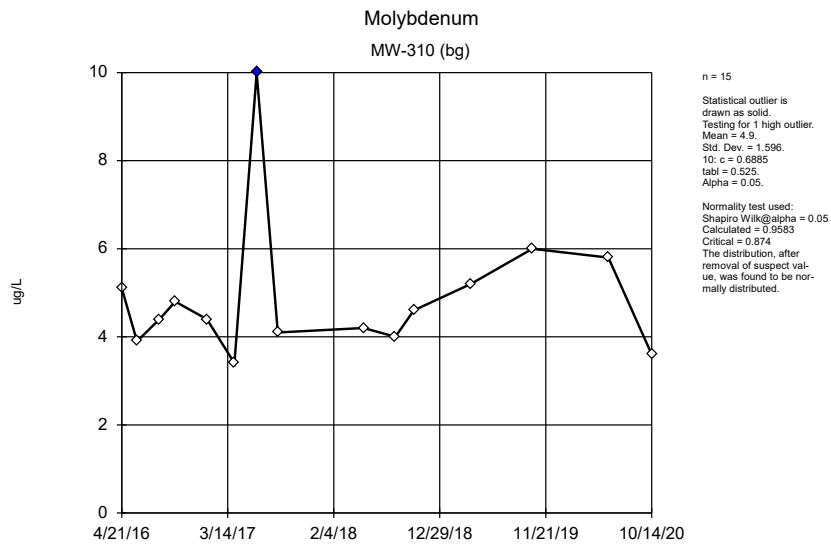




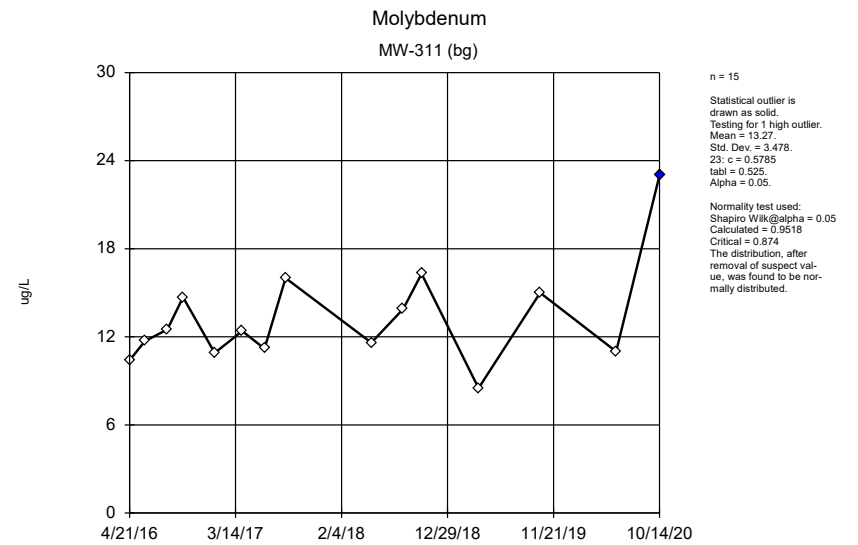
Tukey's Outlier Screening Analysis Run 8/6/2021 10:51 AM View: Background
 Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev



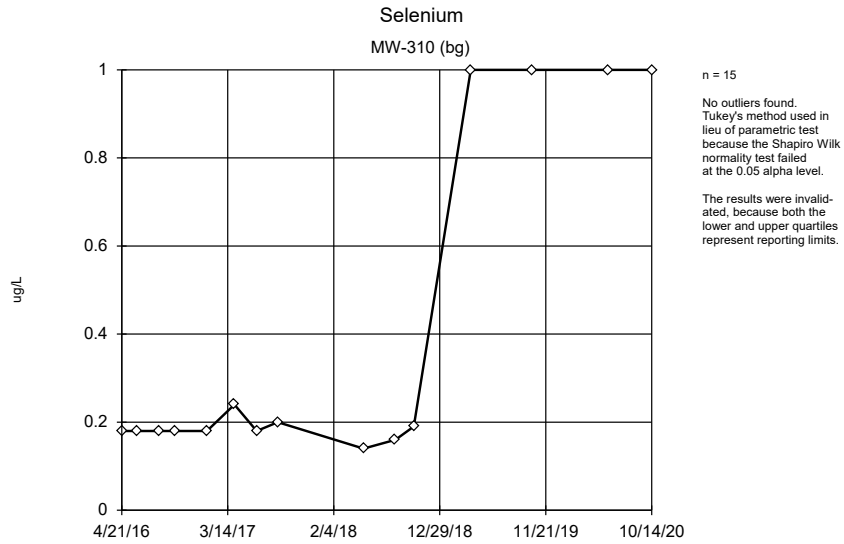
Tukey's Outlier Screening Analysis Run 8/6/2021 10:51 AM View: Background
 Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev



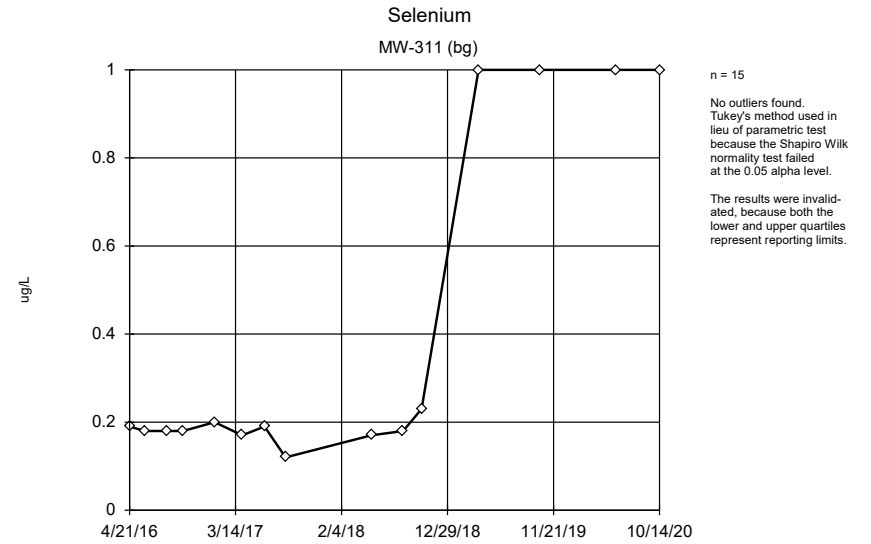
Dixon's Outlier Test Analysis Run 8/6/2021 10:51 AM View: Background
 Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev



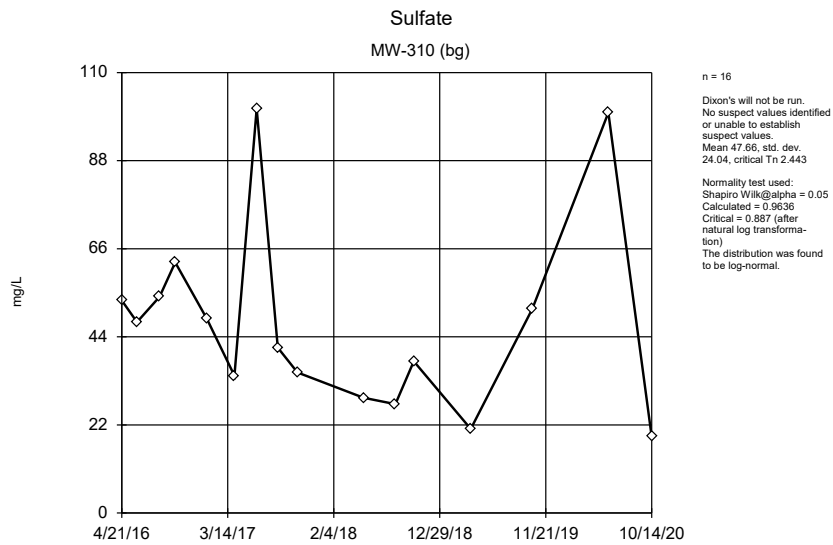
Dixon's Outlier Test Analysis Run 8/6/2021 10:51 AM View: Background
 Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev



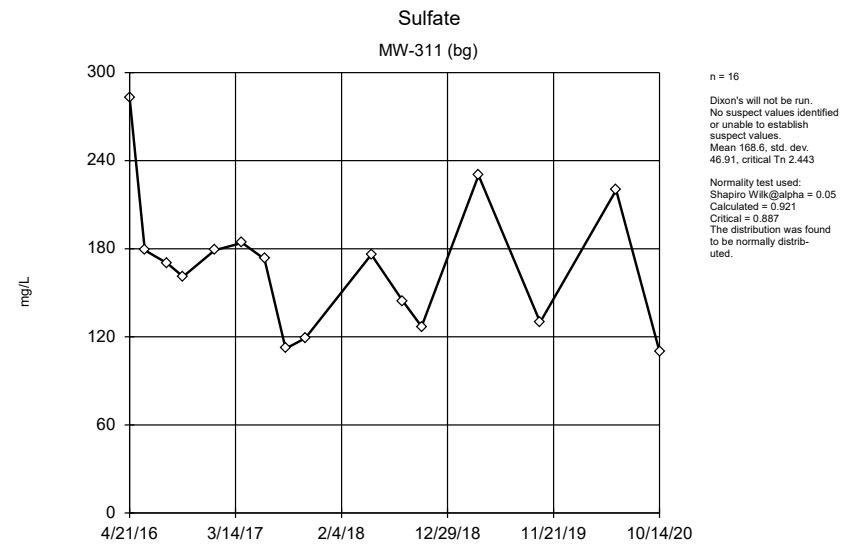
Tukey's Outlier Screening Analysis Run 8/6/2021 10:51 AM View: Background
 Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev



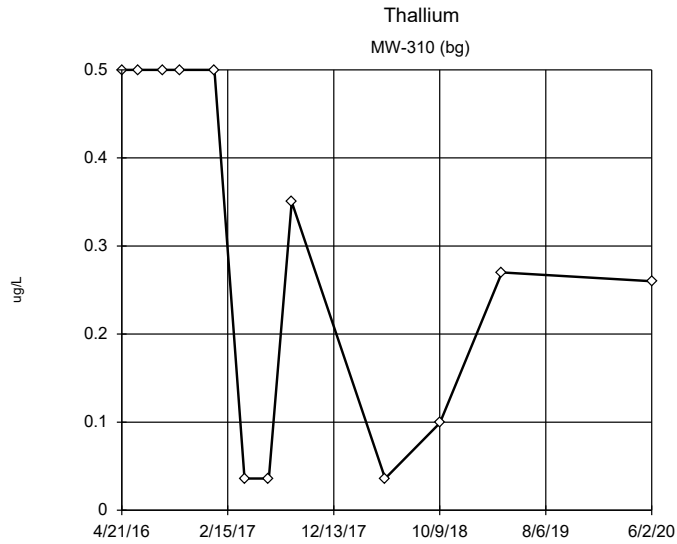
Tukey's Outlier Screening Analysis Run 8/6/2021 10:51 AM View: Background
 Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev



EPA 1989 Outlier Screening Analysis Run 8/6/2021 10:51 AM View: Background
 Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

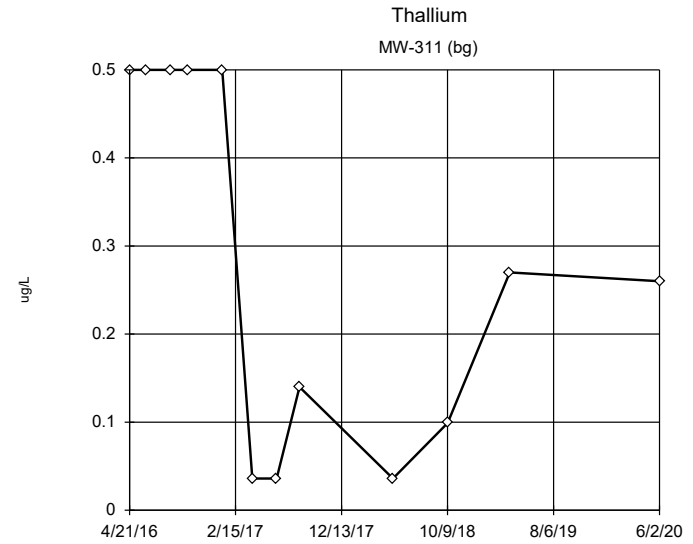


EPA 1989 Outlier Screening Analysis Run 8/6/2021 10:51 AM View: Background
 Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev



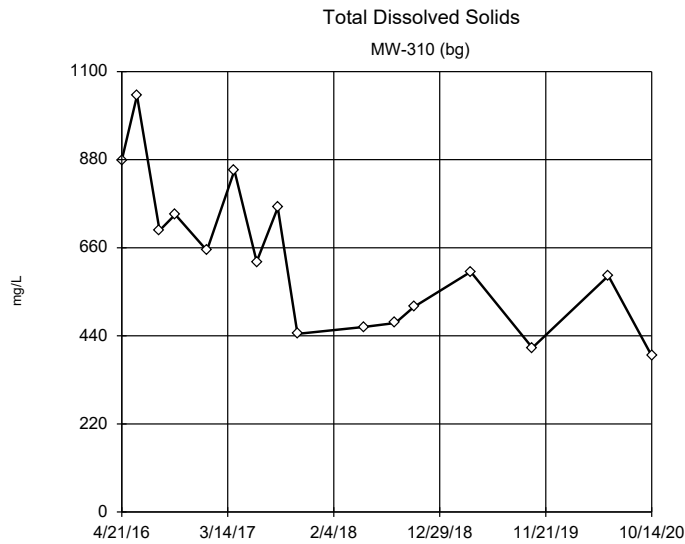
n = 12
 No outliers found.
 Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.05 alpha level.
 High cutoff = 1.798, low cutoff = -1.23, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 8/6/2021 10:51 AM View: Background
 Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev



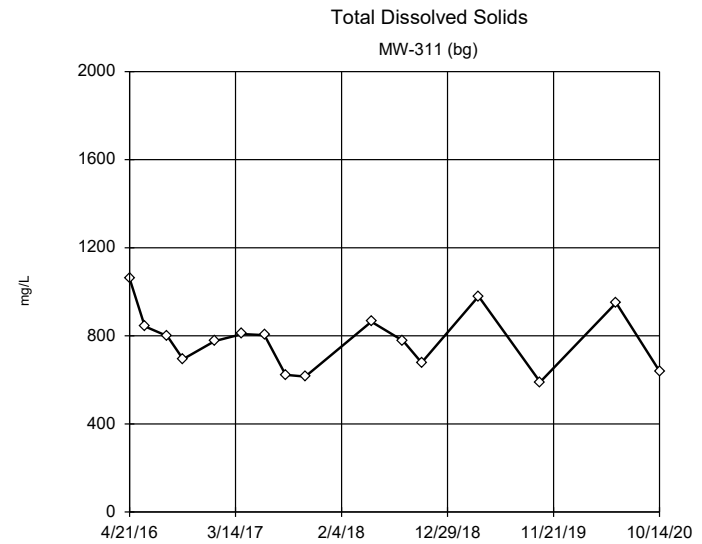
n = 12
 No outliers found.
 Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.05 alpha level.
 High cutoff = 1.798, low cutoff = -1.23, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 8/6/2021 10:51 AM View: Background
 Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev



n = 16
 Dixon's will not be run.
 No suspect values identified or unable to establish suspect values.
 Mean 633.6, std. dev. 187.1, critical Tn 2.443
 Normality test used:
 Shapiro Wilk@alpha = 0.05
 Calculated = 0.95
 Critical = 0.887
 The distribution was found to be normally distributed.

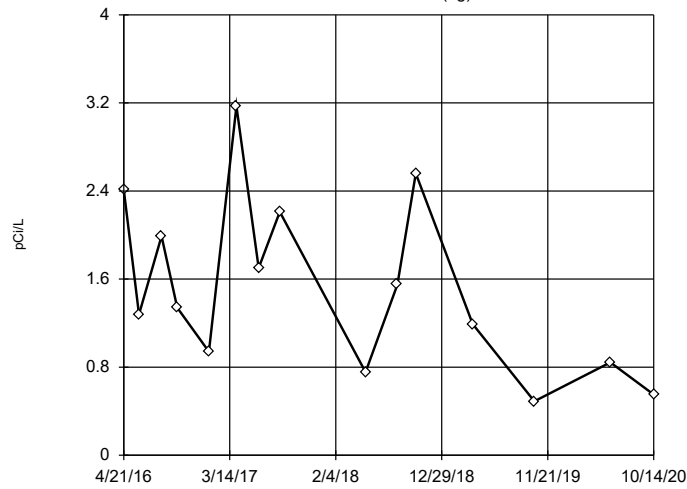
EPA 1989 Outlier Screening Analysis Run 8/6/2021 10:51 AM View: Background
 Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev



n = 16
 Dixon's will not be run.
 No suspect values identified or unable to establish suspect values.
 Mean 781.3, std. dev. 137.9, critical Tn 2.443
 Normality test used:
 Shapiro Wilk@alpha = 0.05
 Calculated = 0.951
 Critical = 0.887
 The distribution was found to be normally distributed.

EPA 1989 Outlier Screening Analysis Run 8/6/2021 10:51 AM View: Background
 Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

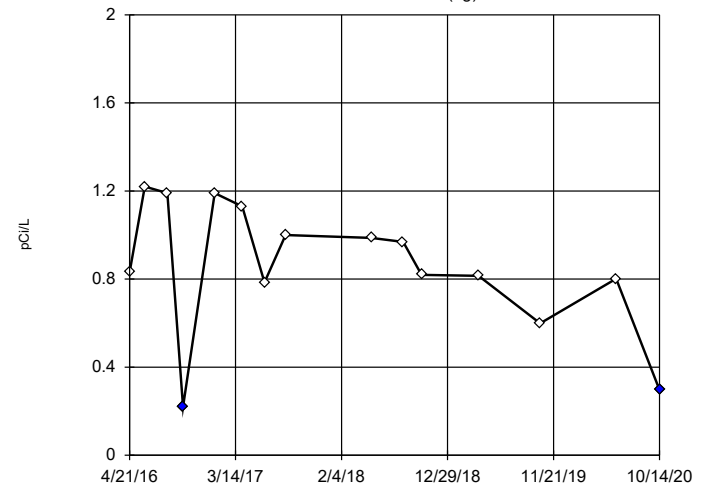
Total Radium MW-310 (bg)



n = 15
 Dixon's will not be run.
 No suspect values identified
 or unable to establish
 suspect values.
 Mean 1.532, std. dev.
 0.7973, critical Tn 2.409
 Normality test used:
 Shapiro Wilk@alpha = 0.05
 Calculated = 0.9529
 Critical = 0.881
 The distribution was found
 to be normally distrib-
 uted.

EPA 1989 Outlier Screening Analysis Run 8/6/2021 10:51 AM View: Background
 Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

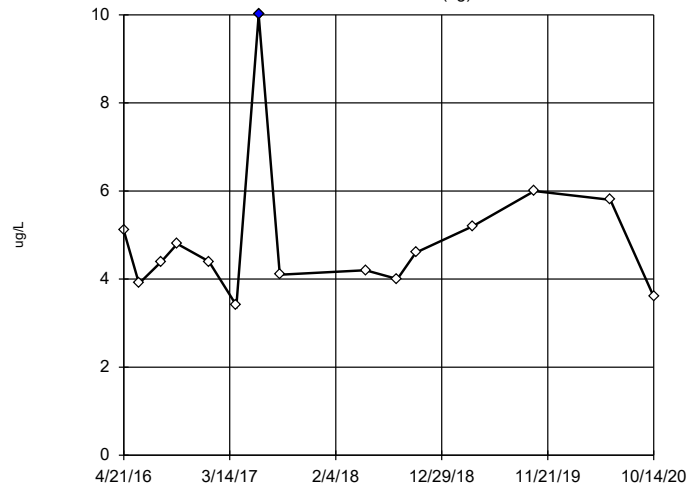
Total Radium MW-311 (bg)



n = 15
 Statistical outliers are
 drawn as solid.
 Testing for 2 low outliers.
 Mean = 0.8569;
 Std. Dev. = 0.3019;
 0.297; c = 0.5465
 tab1 = 0.525,
 Alpha = 0.05.
 Normality test used:
 Shapiro Wilk@alpha = 0.05
 Calculated = 0.9261
 Critical = 0.866
 The distribution, after
 removal of suspect val-
 ues, was found to be nor-
 mally distributed.

Dixon's Outlier Test Analysis Run 8/6/2021 10:51 AM View: Background
 Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

Molybdenum MW-310 (bg)

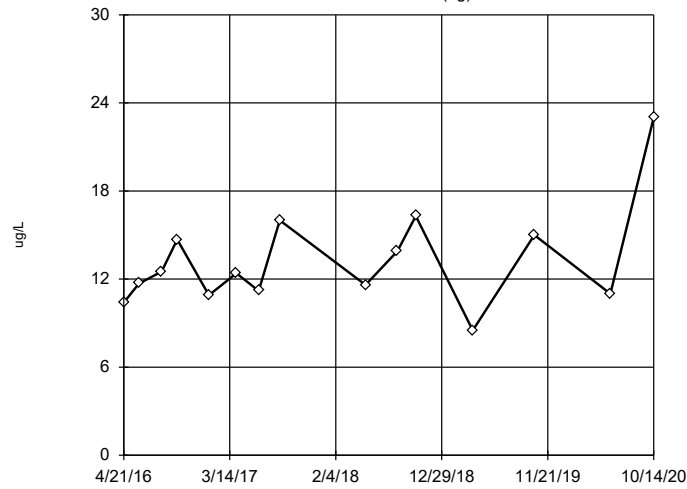


n = 15

Statistical outlier is drawn as solid.
Testing for 1 high outlier.
Mean = 4.9.
Std. Dev. = 1.596.
10: c = 0.6885
tab1 = 0.616.
Alpha = 0.01.

Normality test used:
Shapiro Wilk@alpha = 0.05
Calculated = 0.9583
Critical = 0.874
The distribution, after removal of suspect value, was found to be normally distributed.

Molybdenum MW-311 (bg)



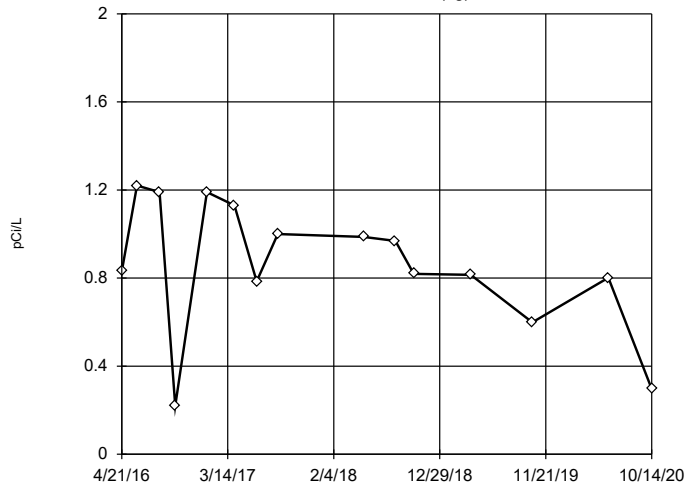
n = 15

No statistical outliers.
Testing for 1 high outlier.
Mean = 13.27.
Std. Dev = 3.478.
23: c = 0.5785
tab1 = 0.616.
Alpha = 0.01.

Normality test used:
Shapiro Wilk@alpha = 0.05
Calculated = 0.9518
Critical = 0.874
The distribution was found to be normally distributed.

Dixon's Outlier Test Analysis Run 8/6/2021 12:13 PM View: Background
Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

Total Radium
MW-311 (bg)



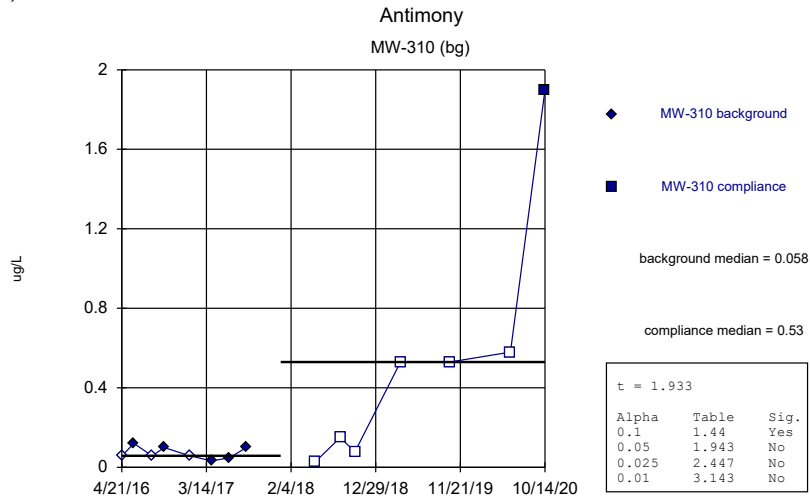
Attachment 3

Welch's/Mann-Whitney Comparison

Welch's t-test/Mann-Whitney

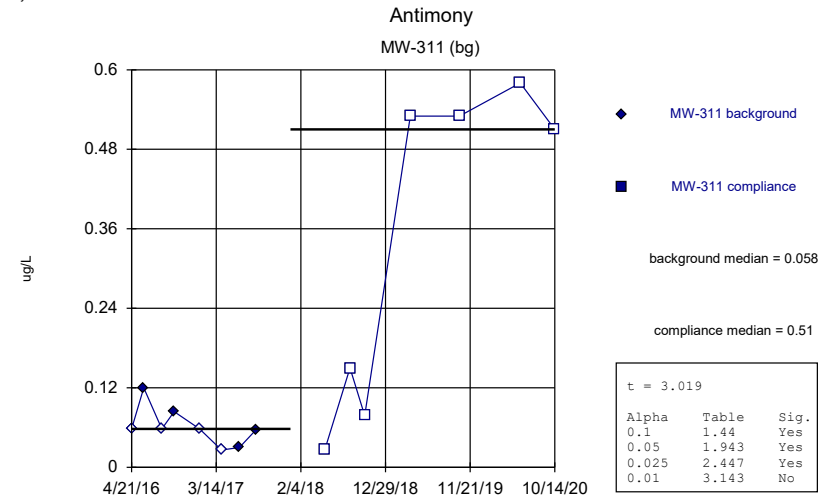
Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev Printed 8/6/2021, 5:27 PM

| <u>Constituent</u> | <u>Well</u> | <u>Calc.</u> | <u>0.1</u> | <u>0.05</u> | <u>0.025</u> | <u>0.01</u> | <u>Alpha</u> | <u>Sig.</u> | <u>Bg. Wells</u> | <u>Method</u> |
|-------------------------------|--------------------|--------------|------------|-------------|--------------|-------------|--------------|-------------|--------------------|---------------------------|
| Antimony (ug/L) | MW-310 (bg) | 1.933 | Yes | No | No | No | 0.01 | No | (intrawell) | Welch`s |
| Antimony (ug/L) | MW-311 (bg) | 3.019 | Yes | Yes | Yes | No | 0.01 | No | (intrawell) | Welch`s |
| Arsenic (ug/L) | MW-310 (bg) | -2.78 | No | No | No | No | 0.01 | No | (intrawell) | Welch`s |
| Arsenic (ug/L) | MW-311 (bg) | 1.223 | No | No | No | No | 0.01 | No | (intrawell) | Welch`s |
| Barium (ug/L) | MW-310 (bg) | -5.143 | No | No | No | No | 0.01 | No | (intrawell) | Welch`s |
| Barium (ug/L) | MW-311 (bg) | 0.2617 | No | No | No | No | 0.01 | No | (intrawell) | Welch`s |
| Beryllium (ug/L) | MW-310 (bg) | 2.448 | Yes | Yes | Yes | Yes | 0.01 | Yes | (intrawell) | Mann-W (NDs) |
| Beryllium (ug/L) | MW-311 (bg) | 2.558 | Yes | Yes | Yes | Yes | 0.01 | Yes | (intrawell) | Mann-W (normality) |
| Boron (ug/L) | MW-310 (bg) | -1.29 | No | No | No | No | 0.01 | No | (intrawell) | Welch`s |
| Boron (ug/L) | MW-311 (bg) | 1.635 | Yes | No | No | No | 0.01 | No | (intrawell) | Welch`s |
| Cadmium (ug/L) | MW-310 (bg) | 2.427 | Yes | Yes | Yes | Yes | 0.01 | Yes | (intrawell) | Mann-W (NDs) |
| Cadmium (ug/L) | MW-311 (bg) | 2.5 | Yes | Yes | Yes | Yes | 0.01 | Yes | (intrawell) | Mann-W (NDs) |
| Calcium (mg/L) | MW-310 (bg) | -4.819 | No | No | No | No | 0.01 | No | (intrawell) | Welch`s |
| Calcium (mg/L) | MW-311 (bg) | -0.287 | No | No | No | No | 0.01 | No | (intrawell) | Welch`s |
| Chloride (mg/L) | MW-310 (bg) | -5.138 | No | No | No | No | 0.01 | No | (intrawell) | Welch`s |
| Chloride (mg/L) | MW-311 (bg) | -0.... | No | No | No | No | 0.01 | No | (intrawell) | Welch`s |
| Chromium (ug/L) | MW-310 (bg) | 1.177 | No | No | No | No | 0.01 | No | (intrawell) | Welch`s |
| Chromium (ug/L) | MW-311 (bg) | 2.742 | Yes | Yes | Yes | No | 0.01 | No | (intrawell) | Welch`s |
| Cobalt (ug/L) | MW-310 (bg) | -1.461 | No | No | No | No | 0.01 | No | (intrawell) | Welch`s |
| Cobalt (ug/L) | MW-311 (bg) | 2.222 | Yes | Yes | Yes | No | 0.01 | No | (intrawell) | Mann-W (normality) |
| Field pH (Std. Units) | MW-310 (bg) | 1.36 | Yes | No | No | No | 0.01 | No | (intrawell) | Welch`s |
| Field pH (Std. Units) | MW-311 (bg) | 0.6131 | No | No | No | No | 0.01 | No | (intrawell) | Welch`s |
| Fluoride (mg/L) | MW-310 (bg) | 1.377 | No | No | No | No | 0.01 | No | (intrawell) | Welch`s |
| Fluoride (mg/L) | MW-311 (bg) | 0.7656 | No | No | No | No | 0.01 | No | (intrawell) | Welch`s |
| Lead (ug/L) | MW-310 (bg) | -0.... | No | No | No | No | 0.01 | No | (intrawell) | Welch`s |
| Lead (ug/L) | MW-311 (bg) | 1.296 | No | No | No | No | 0.01 | No | (intrawell) | Welch`s |
| Lithium (ug/L) | MW-310 (bg) | -2.166 | No | No | No | No | 0.01 | No | (intrawell) | Mann-W (NDs) |
| Lithium (ug/L) | MW-311 (bg) | -2.29 | No | No | No | No | 0.01 | No | (intrawell) | Mann-W (NDs) |
| Mercury (ug/L) | MW-310 (bg) | 2.932 | Yes | Yes | Yes | Yes | 0.01 | Yes | (intrawell) | Mann-W (NDs) |
| Mercury (ug/L) | MW-311 (bg) | 2.919 | Yes | Yes | Yes | Yes | 0.01 | Yes | (intrawell) | Mann-W (NDs) |
| Molybdenum (ug/L) | MW-310 (bg) | 1.155 | No | No | No | No | 0.01 | No | (intrawell) | Welch`s |
| Molybdenum (ug/L) | MW-311 (bg) | 0.8996 | No | No | No | No | 0.01 | No | (intrawell) | Welch`s |
| Selenium (ug/L) | MW-310 (bg) | 1.13 | No | No | No | No | 0.01 | No | (intrawell) | Mann-W (normality) |
| Selenium (ug/L) | MW-311 (bg) | 2.838 | Yes | Yes | Yes | No | 0.01 | No | (intrawell) | Welch`s |
| Sulfate (mg/L) | MW-310 (bg) | -1.605 | No | No | No | No | 0.01 | No | (intrawell) | Welch`s |
| Sulfate (mg/L) | MW-311 (bg) | -1.038 | No | No | No | No | 0.01 | No | (intrawell) | Welch`s |
| Thallium (ug/L) | MW-310 (bg) | -1.686 | No | No | No | No | 0.01 | No | (intrawell) | Mann-W (NDs) |
| Thallium (ug/L) | MW-311 (bg) | -1.331 | No | No | No | No | 0.01 | No | (intrawell) | Mann-W (NDs) |
| Total Dissolved Solids (mg/L) | MW-310 (bg) | -5.349 | No | No | No | No | 0.01 | No | (intrawell) | Welch`s |
| Total Dissolved Solids (mg/L) | MW-311 (bg) | -0.... | No | No | No | No | 0.01 | No | (intrawell) | Welch`s |
| Total Radium (pCi/L) | MW-310 (bg) | -1.987 | No | No | No | No | 0.01 | No | (intrawell) | Welch`s |
| Total Radium (pCi/L) | MW-311 (bg) | -1.741 | No | No | No | No | 0.01 | No | (intrawell) | Welch`s |



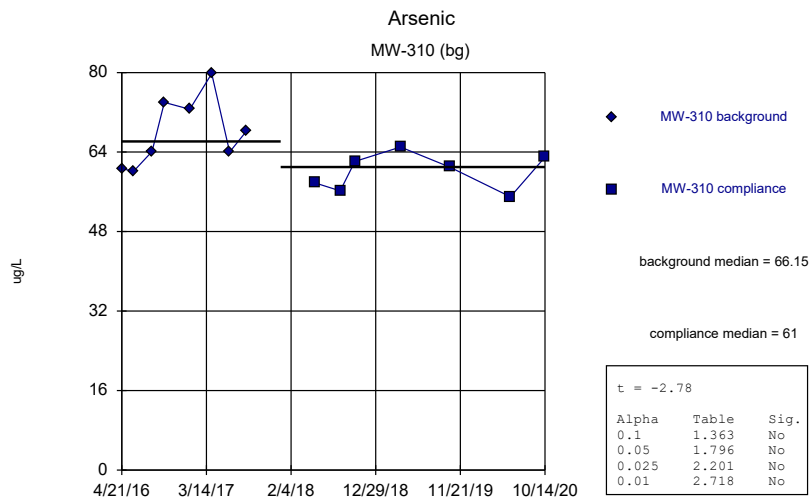
Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8977, critical = 0.818.

Welch's t-test Analysis Run 8/6/2021 5:25 PM View: Background
Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev



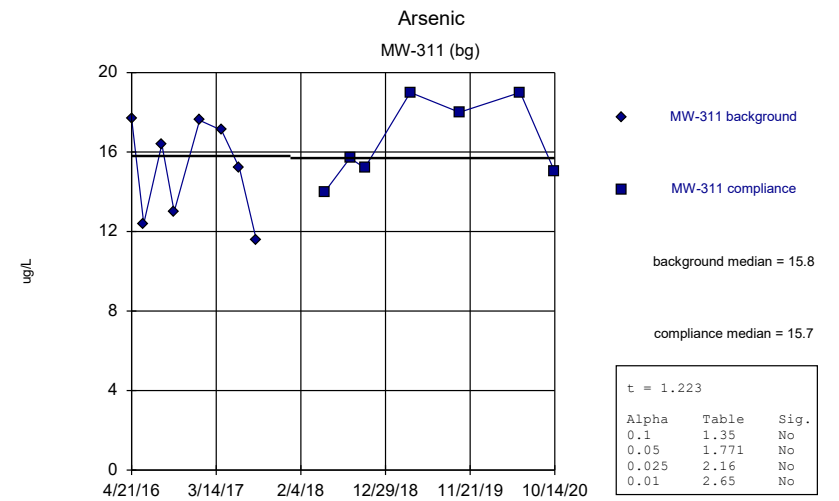
Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8814, critical = 0.818.

Welch's t-test Analysis Run 8/6/2021 5:25 PM View: Background
Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev



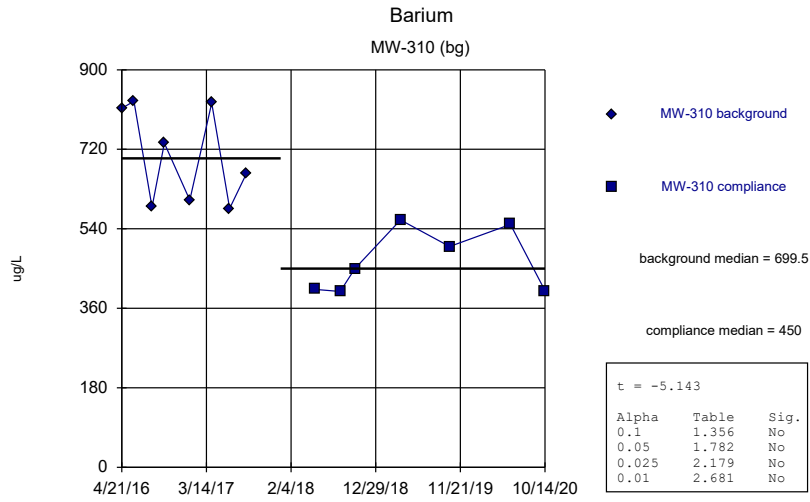
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Welch's t-test Analysis Run 8/6/2021 5:25 PM View: Background
Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev



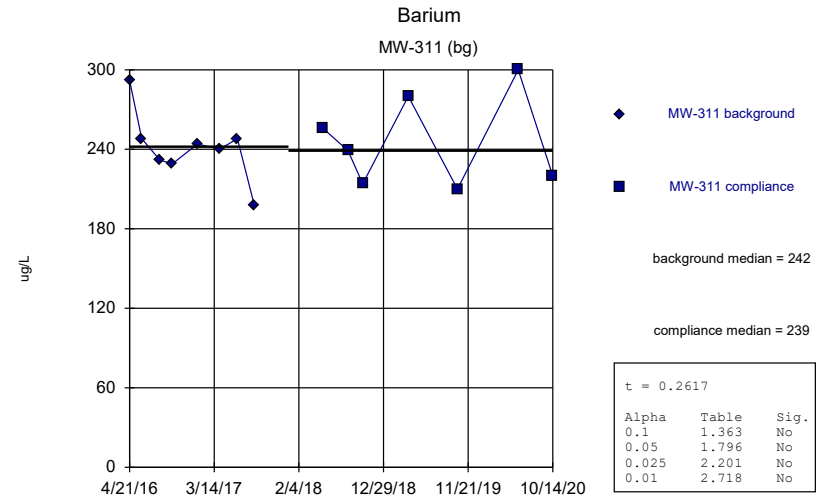
Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8778, critical = 0.818.

Welch's t-test Analysis Run 8/6/2021 5:25 PM View: Background
Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev



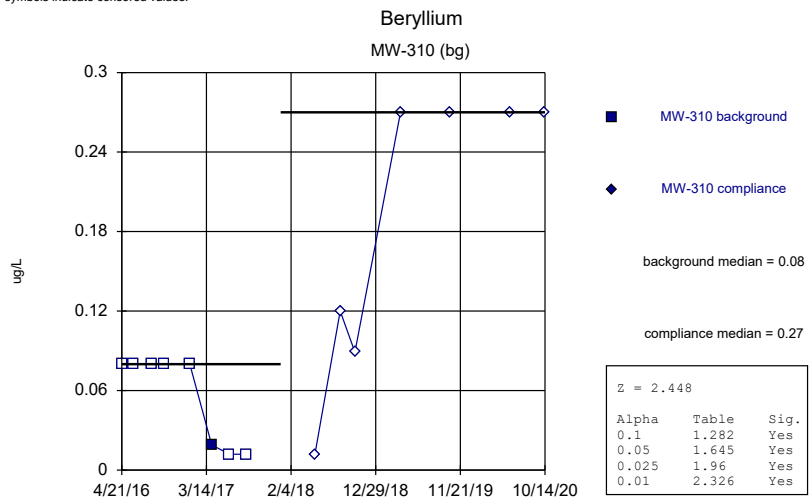
Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8414, critical = 0.818.

Welch's t-test Analysis Run 8/6/2021 5:25 PM View: Background
 Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev



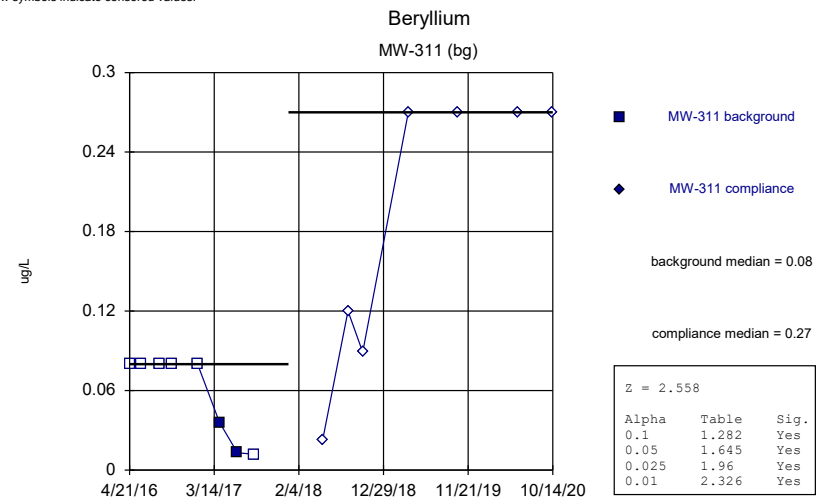
Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9086, critical = 0.818.

Welch's t-test Analysis Run 8/6/2021 5:25 PM View: Background
 Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev



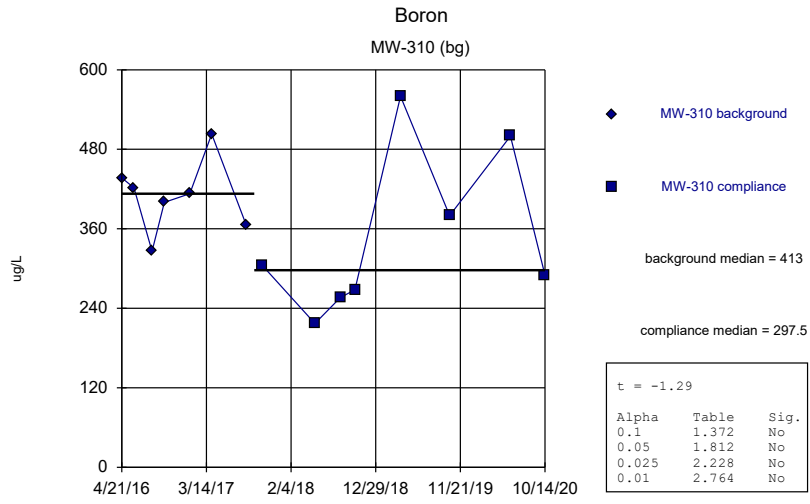
Mann-Whitney (Wilcoxon Rank Sum) used in lieu of Welch's t-test because censored data exceeded 75%.

Mann-Whitney (Wilcoxon Rank Sum) Analysis Run 8/6/2021 5:25 PM View: Background
 Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev



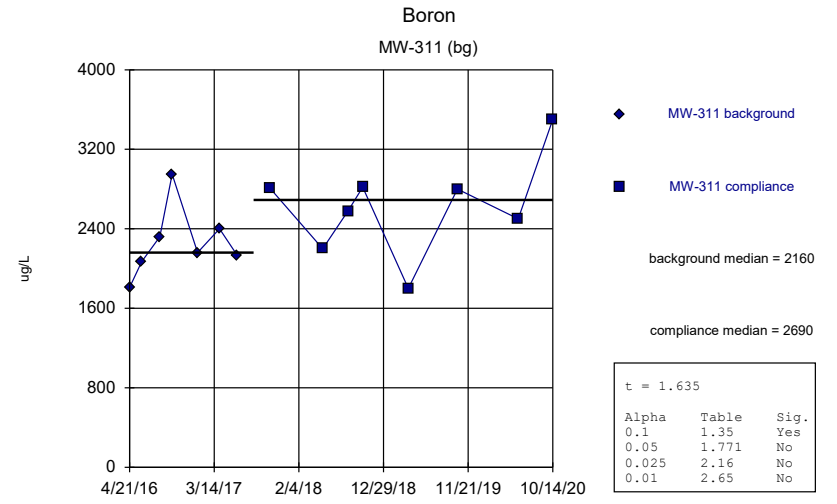
Mann-Whitney (Wilcoxon Rank Sum) used in lieu of Welch's t-test because the Shapiro Wilk normality test showed the data to be non-normal at the 0.05 alpha level.

Mann-Whitney (Wilcoxon Rank Sum) Analysis Run 8/6/2021 5:25 PM View: Background
 Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev



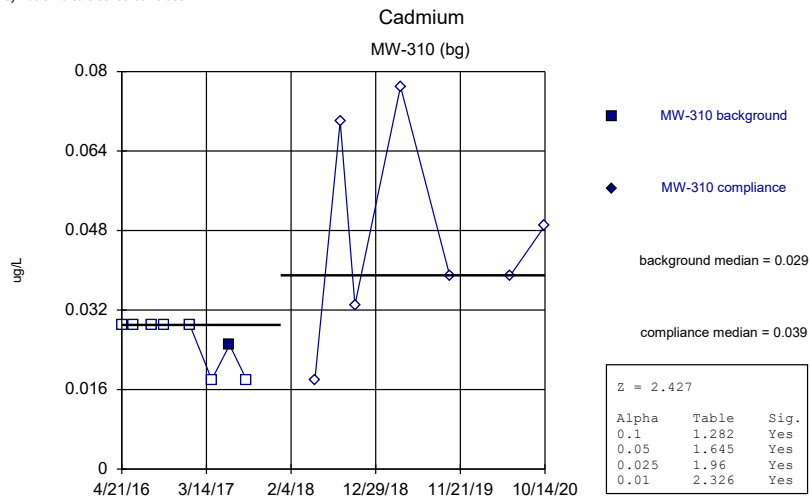
Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9774, critical = 0.803.

Welch's t-test Analysis Run 8/6/2021 5:26 PM View: Background
Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev



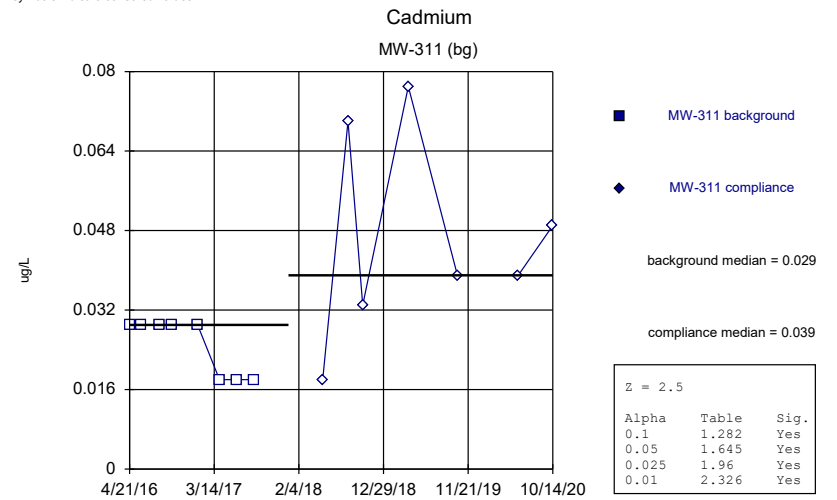
Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9165, critical = 0.803.

Welch's t-test Analysis Run 8/6/2021 5:26 PM View: Background
Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev



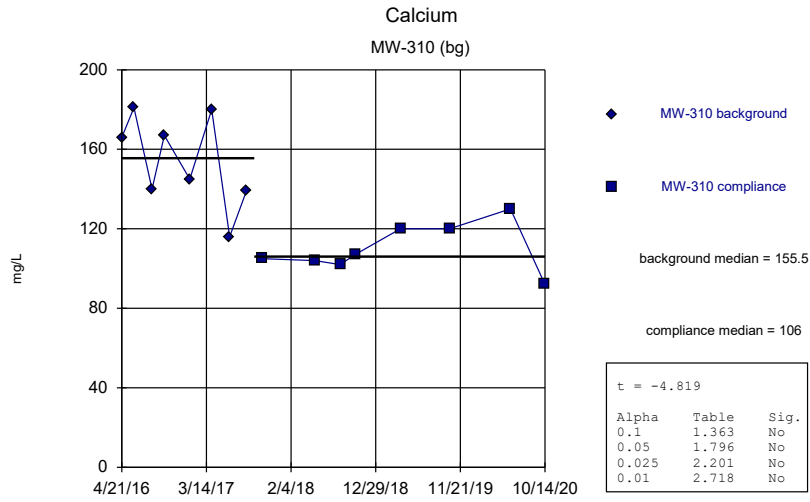
Mann-Whitney (Wilcoxon Rank Sum) used in lieu of Welch's t-test because censored data exceeded 75%.

Mann-Whitney (Wilcoxon Rank Sum) Analysis Run 8/6/2021 5:26 PM View: Background
Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev



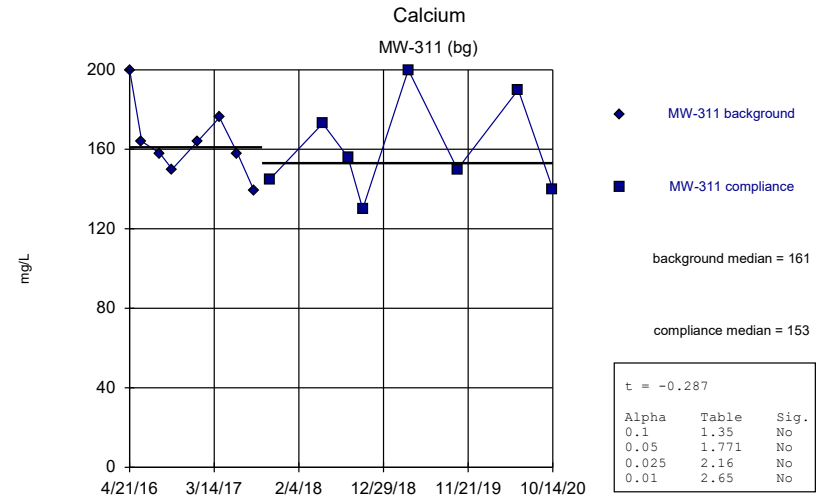
Mann-Whitney (Wilcoxon Rank Sum) used in lieu of Welch's t-test because censored data exceeded 75%.

Mann-Whitney (Wilcoxon Rank Sum) Analysis Run 8/6/2021 5:26 PM View: Background
Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev



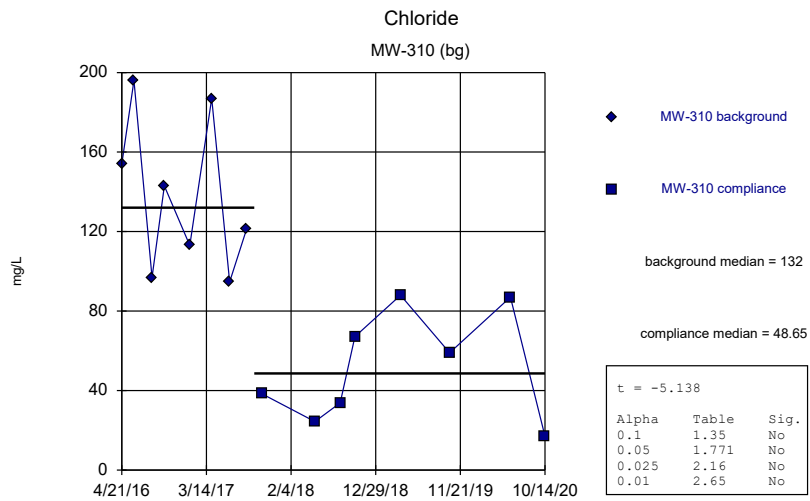
Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9244, critical = 0.818.

Welch's t-test Analysis Run 8/6/2021 5:26 PM View: Background
 Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev



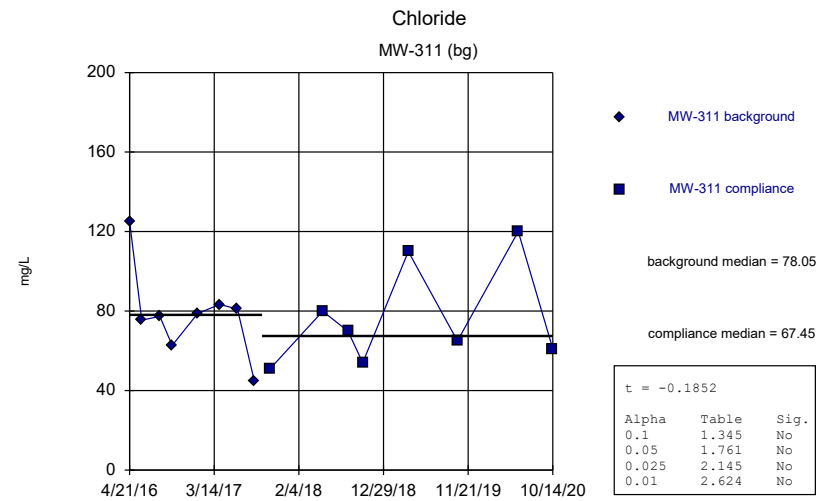
Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9283, critical = 0.818.

Welch's t-test Analysis Run 8/6/2021 5:26 PM View: Background
 Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev



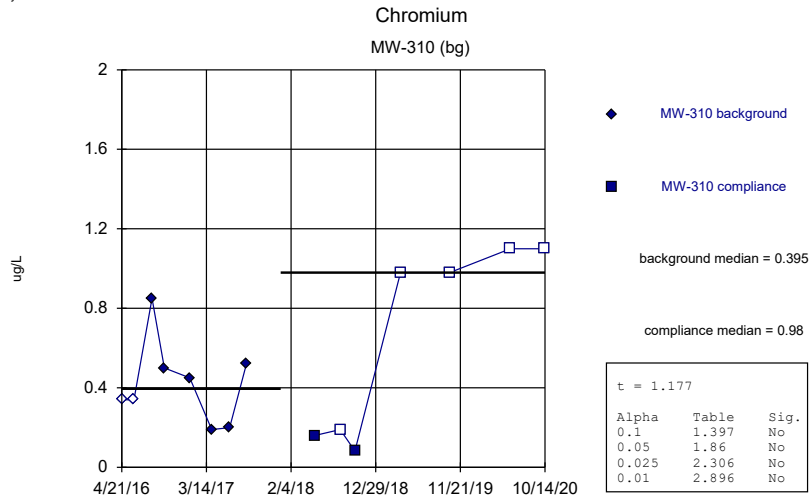
Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9162, critical = 0.818.

Welch's t-test Analysis Run 8/6/2021 5:26 PM View: Background
 Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev



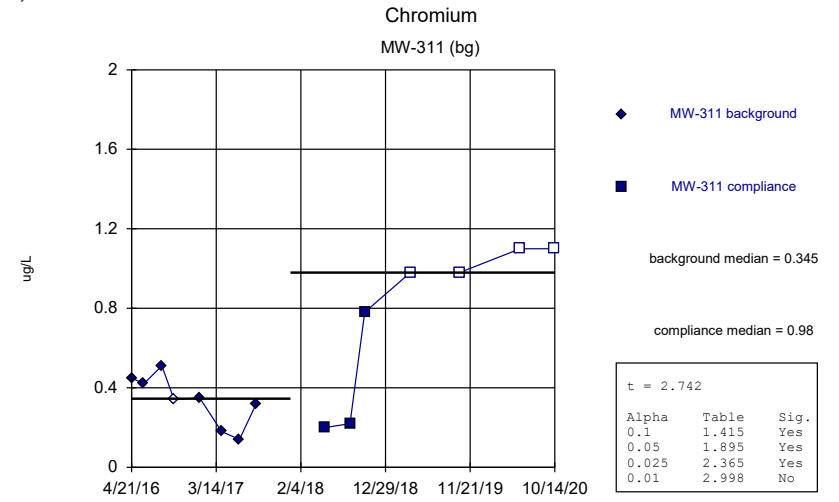
Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8773, critical = 0.818.

Welch's t-test Analysis Run 8/6/2021 5:26 PM View: Background
 Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev



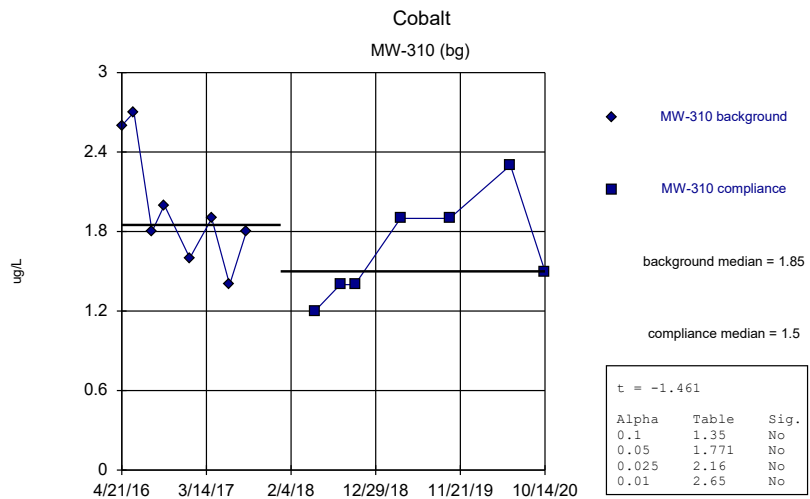
Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9044, critical = 0.818.

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 Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev



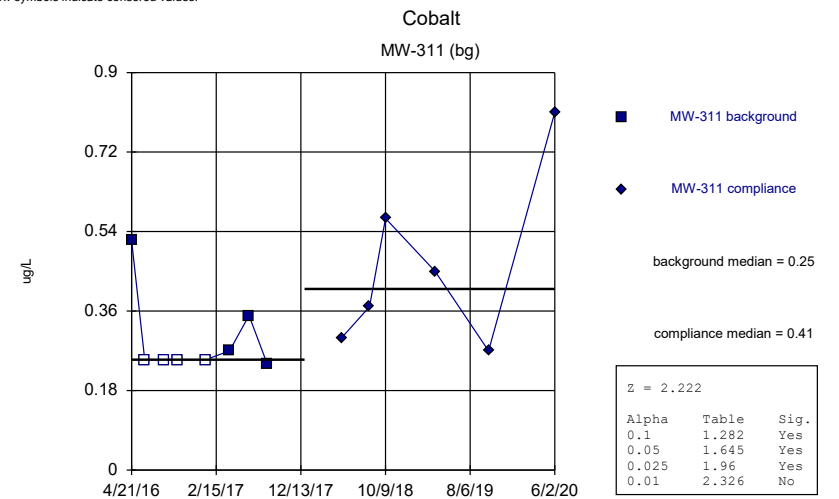
Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9442, critical = 0.818.

Welch's t-test Analysis Run 8/6/2021 5:26 PM View: Background
 Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev



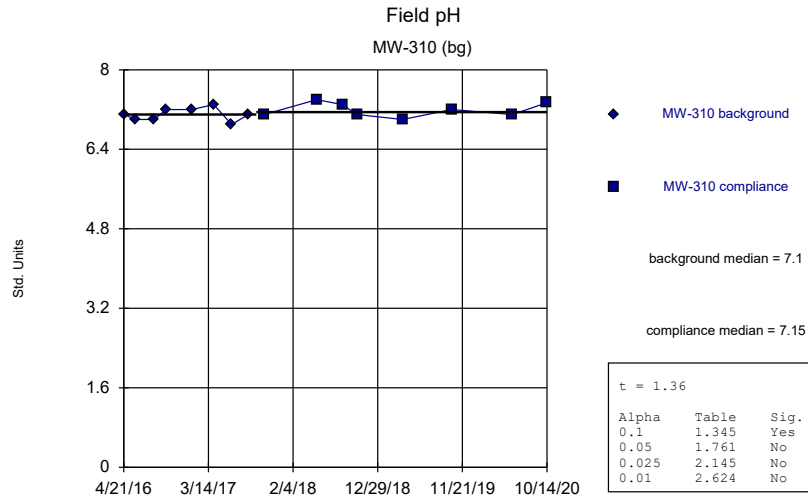
Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8989, critical = 0.818.

Welch's t-test Analysis Run 8/6/2021 5:26 PM View: Background
 Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev



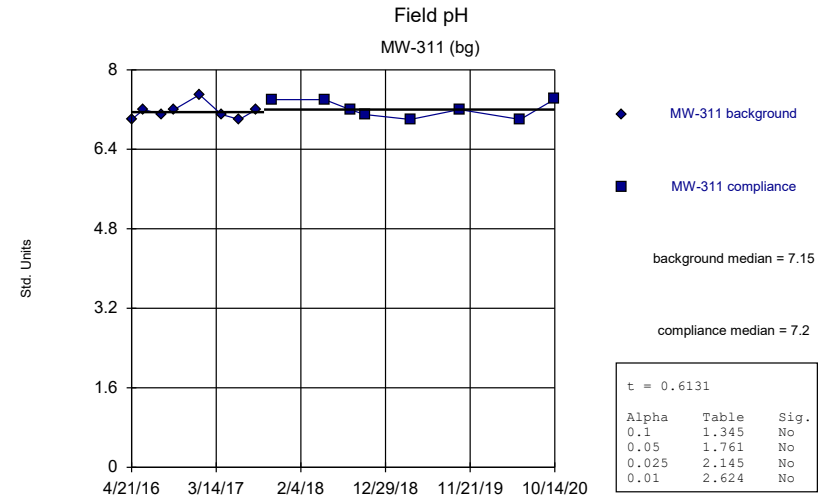
Mann-Whitney (Wilcoxon Rank Sum) used in lieu of Welch's t-test because the Shapiro Wilk normality test showed the data to be non-normal at the 0.05 alpha level.

Mann-Whitney (Wilcoxon Rank Sum) Analysis Run 8/6/2021 5:26 PM View: Background
 Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev



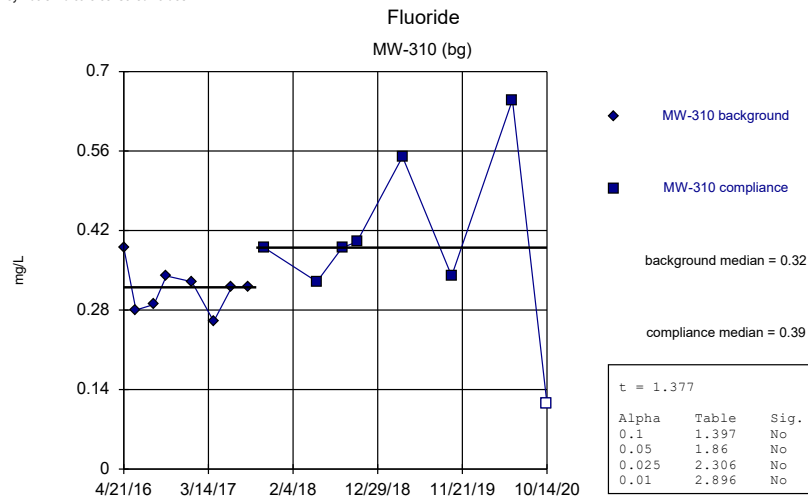
Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9646, critical = 0.818.

Welch's t-test Analysis Run 8/6/2021 5:26 PM View: Background
Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev



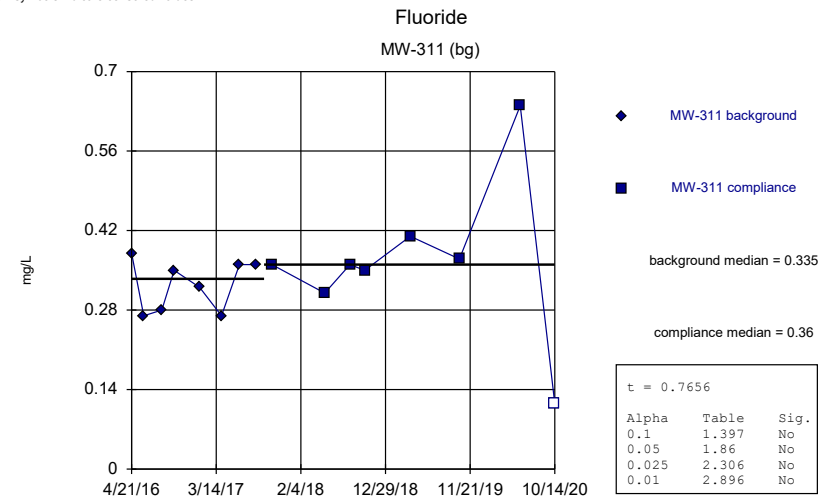
Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8462, critical = 0.818.

Welch's t-test Analysis Run 8/6/2021 5:26 PM View: Background
Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev



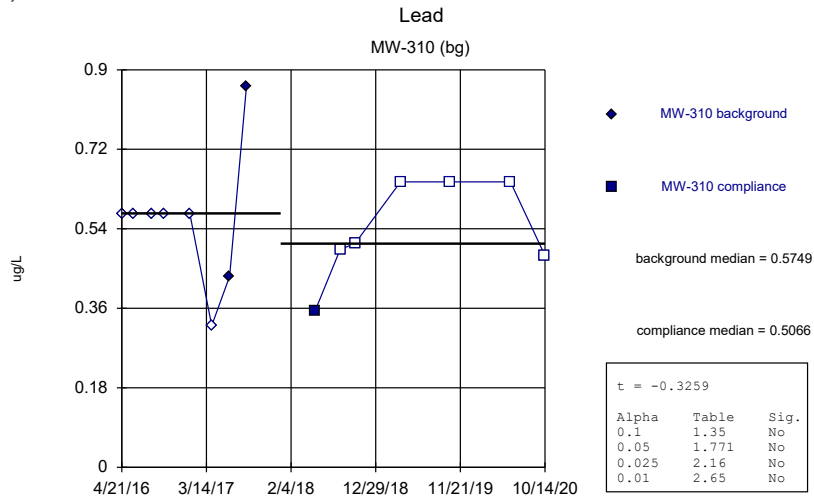
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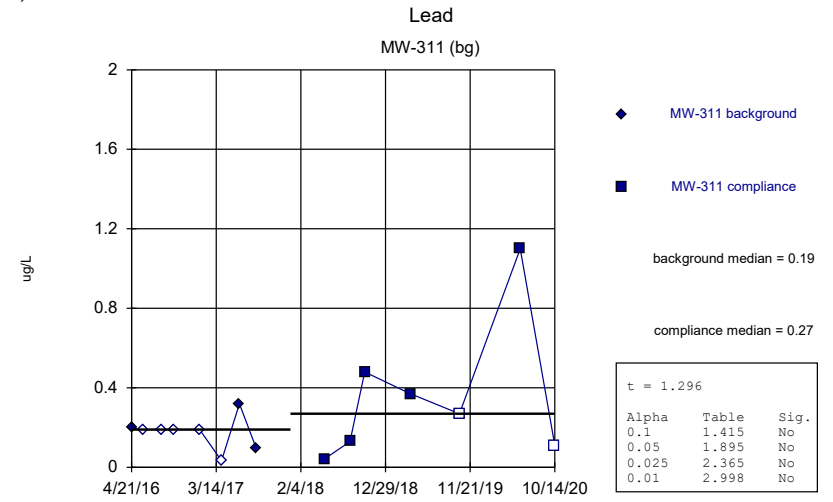
Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8634, critical = 0.818.

Welch's t-test Analysis Run 8/6/2021 5:26 PM View: Background
Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev



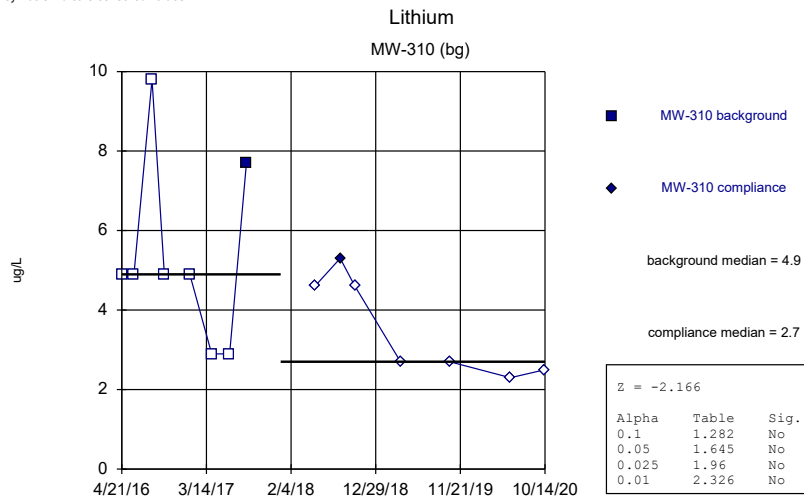
Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8375 after cube root transformation, critical = 0.818.

Welch's t-test Analysis Run 8/6/2021 5:26 PM View: Background
Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev



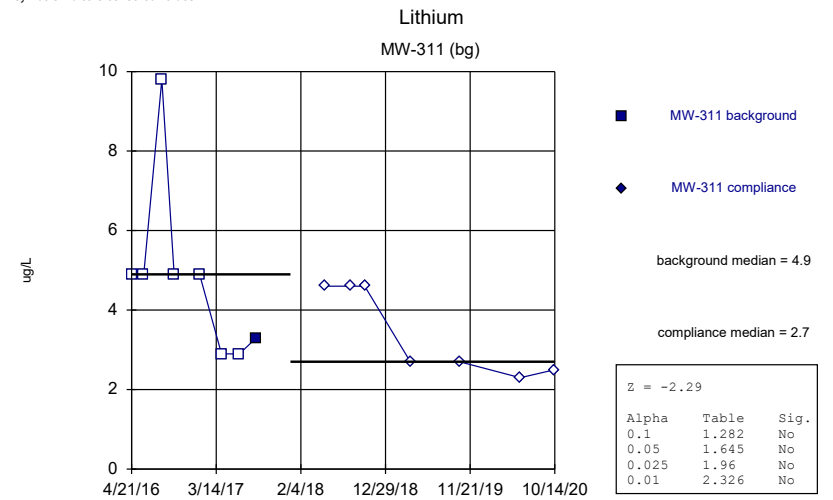
Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8721, critical = 0.818.

Welch's t-test Analysis Run 8/6/2021 5:26 PM View: Background
Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev



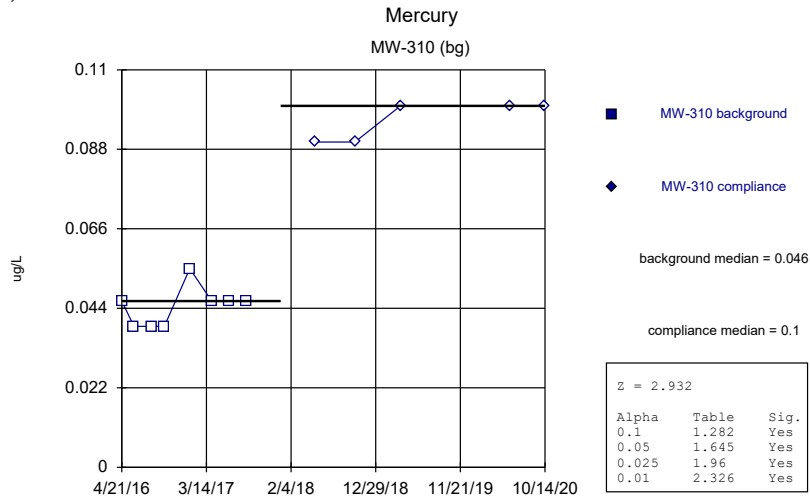
Mann-Whitney (Wilcoxon Rank Sum) used in lieu of Welch's t-test because censored data exceeded 75%.

Mann-Whitney (Wilcoxon Rank Sum) Analysis Run 8/6/2021 5:26 PM View: Background
Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev



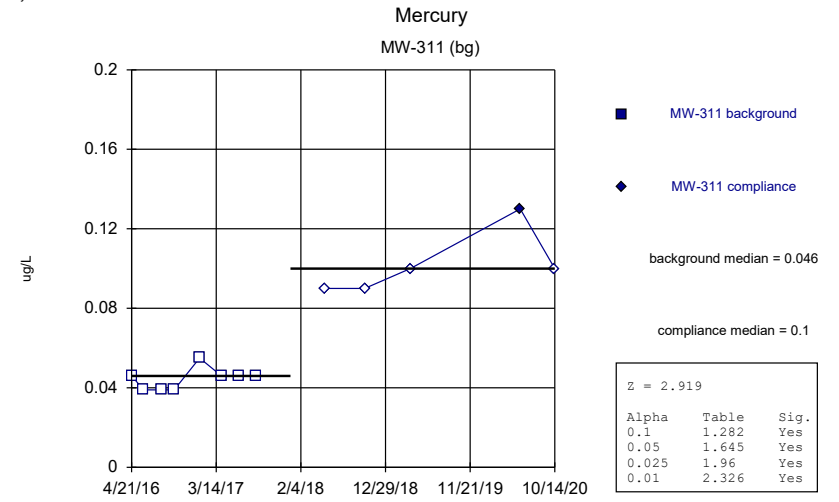
Mann-Whitney (Wilcoxon Rank Sum) used in lieu of Welch's t-test because censored data exceeded 75%.

Mann-Whitney (Wilcoxon Rank Sum) Analysis Run 8/6/2021 5:26 PM View: Background
Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev



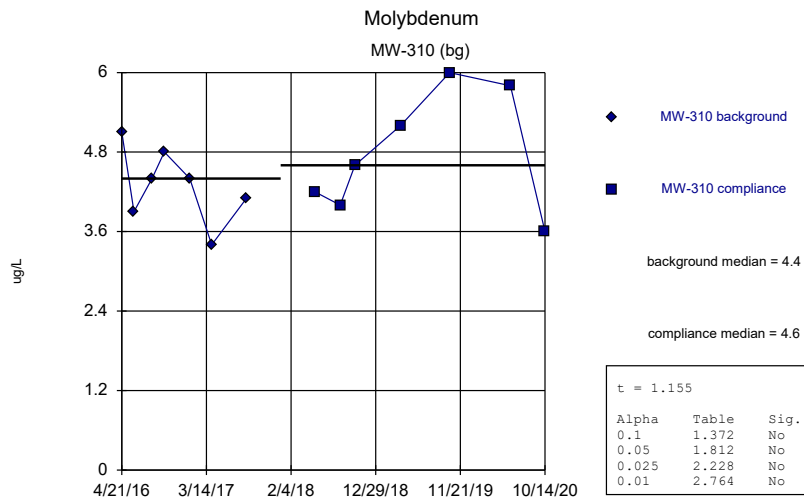
Mann-Whitney (Wilcoxon Rank Sum) used in lieu of Welch's t-test because censored data exceeded 75%.

Mann-Whitney (Wilcoxon Rank Sum) Analysis Run 8/6/2021 5:26 PM View: Background
Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev



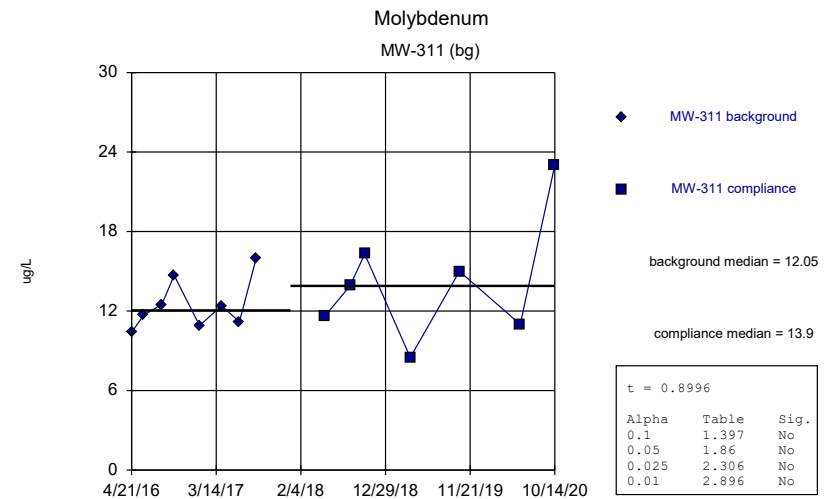
Mann-Whitney (Wilcoxon Rank Sum) used in lieu of Welch's t-test because censored data exceeded 75%.

Mann-Whitney (Wilcoxon Rank Sum) Analysis Run 8/6/2021 5:26 PM View: Background
Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev



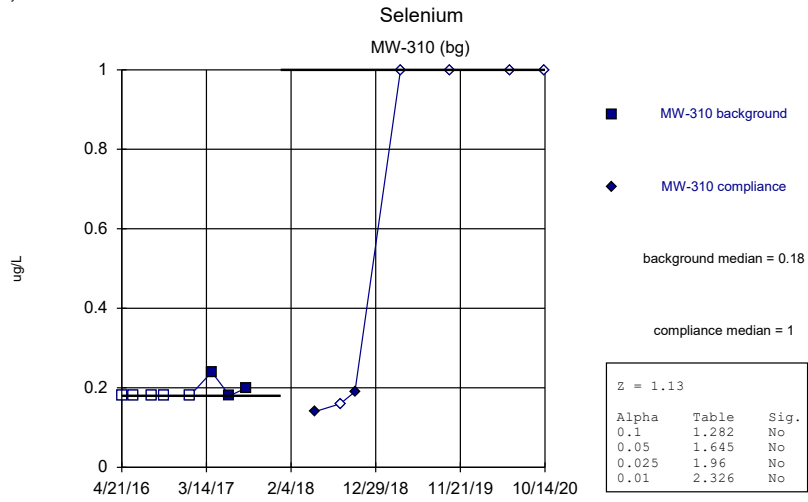
Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9839, critical = 0.803.

Welch's t-test Analysis Run 8/6/2021 5:26 PM View: Background
Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev



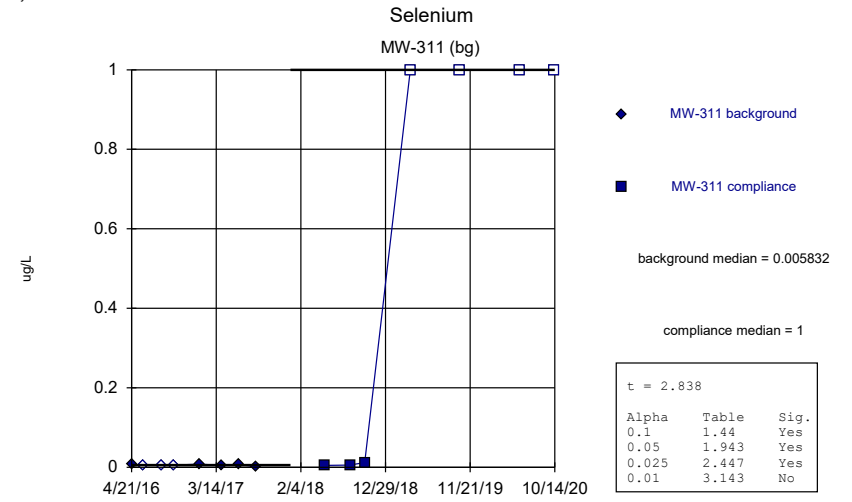
Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8939, critical = 0.818.

Welch's t-test Analysis Run 8/6/2021 5:26 PM View: Background
Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev



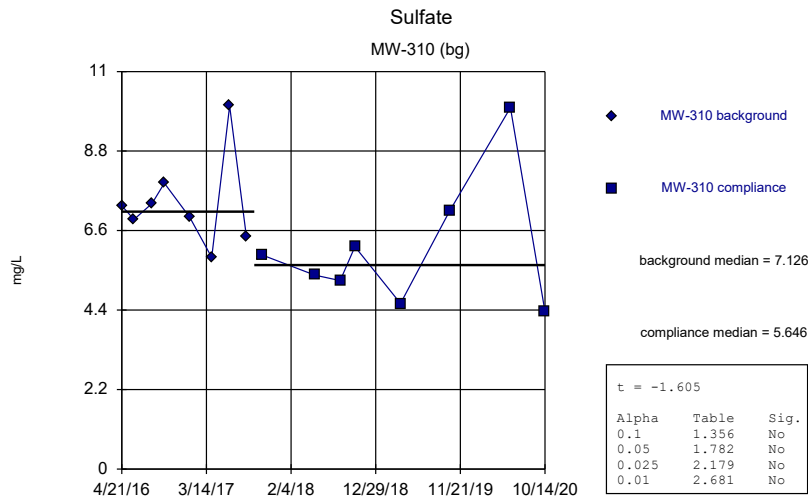
Mann-Whitney (Wilcoxon Rank Sum) used in lieu of Welch's t-test because the Shapiro Wilk normality test showed the data to be non-normal at the 0.05 alpha level.

Mann-Whitney (Wilcoxon Rank Sum) Analysis Run 8/6/2021 5:26 PM View: Background
 Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev



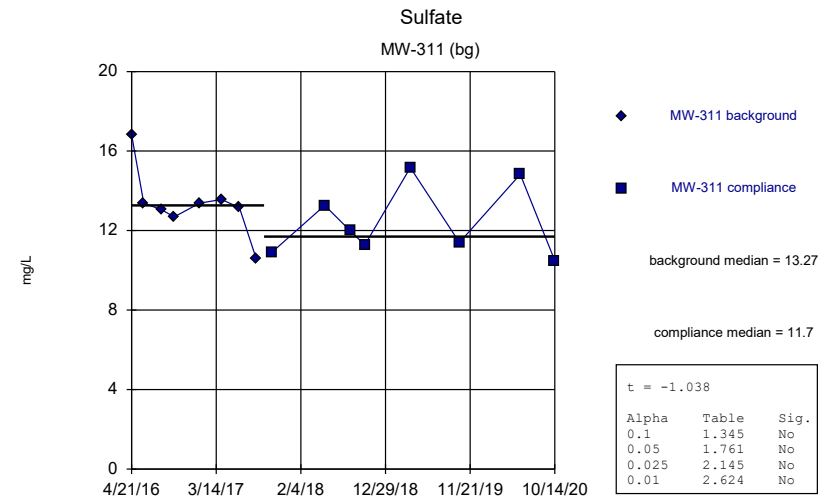
Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8631 after cube transformation, critical = 0.818.

Welch's t-test Analysis Run 8/6/2021 5:26 PM View: Background
 Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev



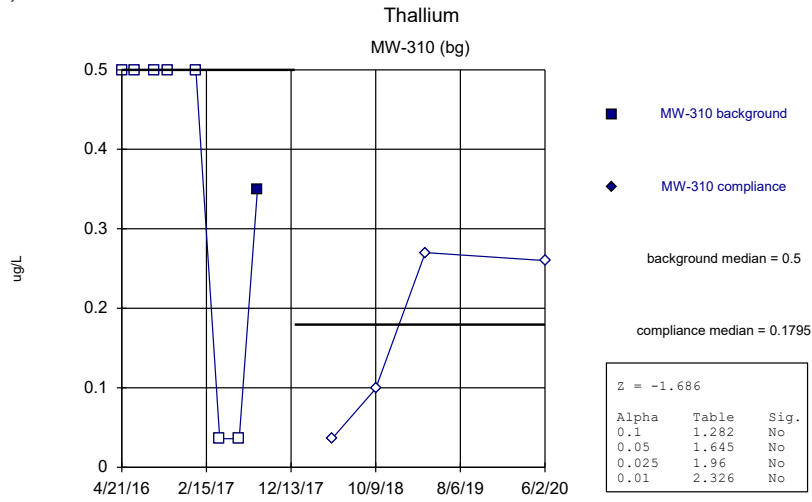
Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8723 after square root transformation, critical = 0.818.

Welch's t-test Analysis Run 8/6/2021 5:26 PM View: Background
 Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev



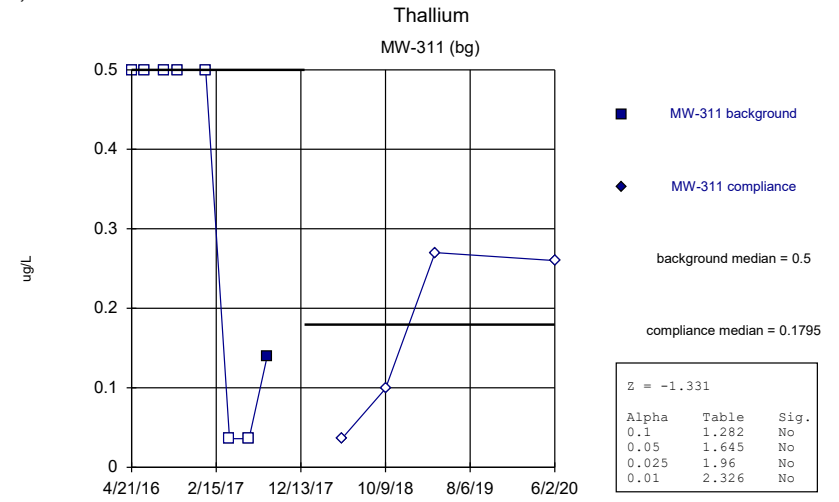
Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8371 after square root transformation, critical = 0.818.

Welch's t-test Analysis Run 8/6/2021 5:26 PM View: Background
 Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev



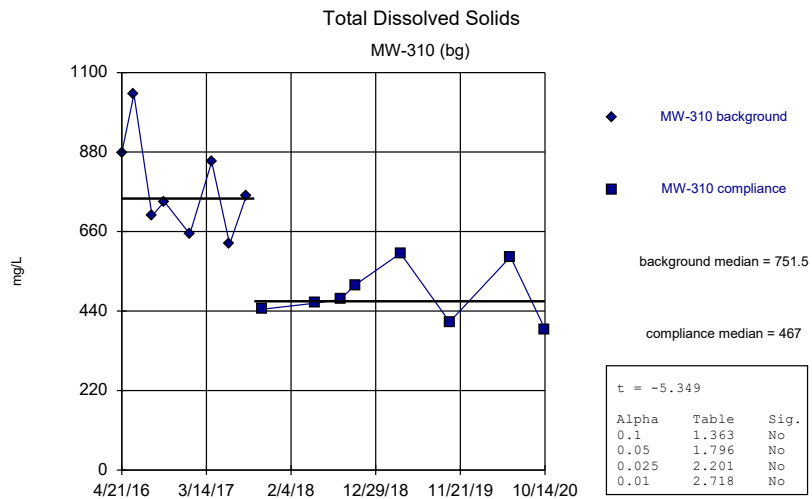
Mann-Whitney (Wilcoxon Rank Sum) used in lieu of Welch's t-test because censored data exceeded 75%.

Mann-Whitney (Wilcoxon Rank Sum) Analysis Run 8/6/2021 5:26 PM View: Background
Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev



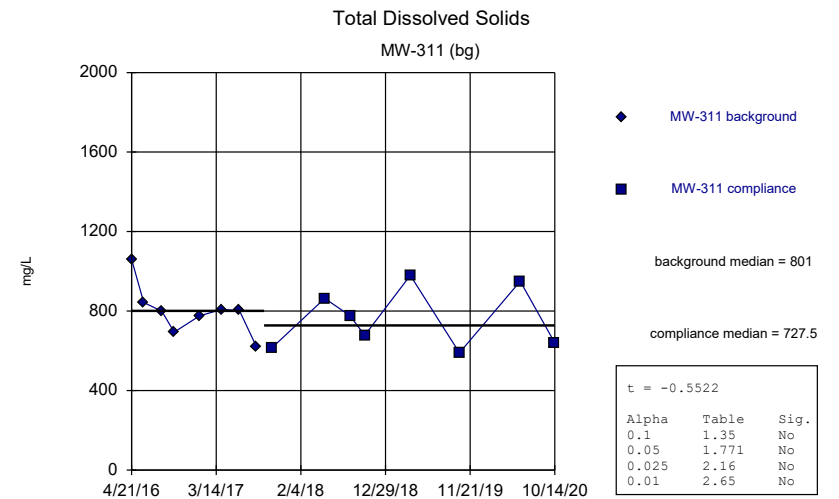
Mann-Whitney (Wilcoxon Rank Sum) used in lieu of Welch's t-test because censored data exceeded 75%.

Mann-Whitney (Wilcoxon Rank Sum) Analysis Run 8/6/2021 5:26 PM View: Background
Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev



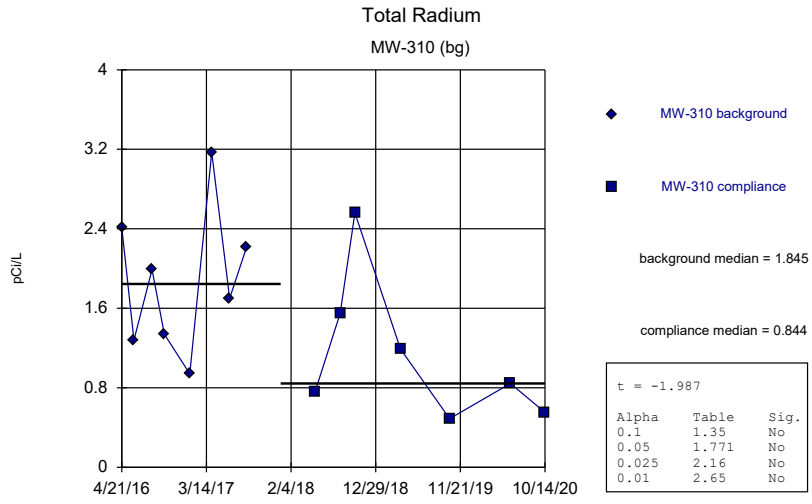
Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9371, critical = 0.818.

Welch's t-test Analysis Run 8/6/2021 5:26 PM View: Background
Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev



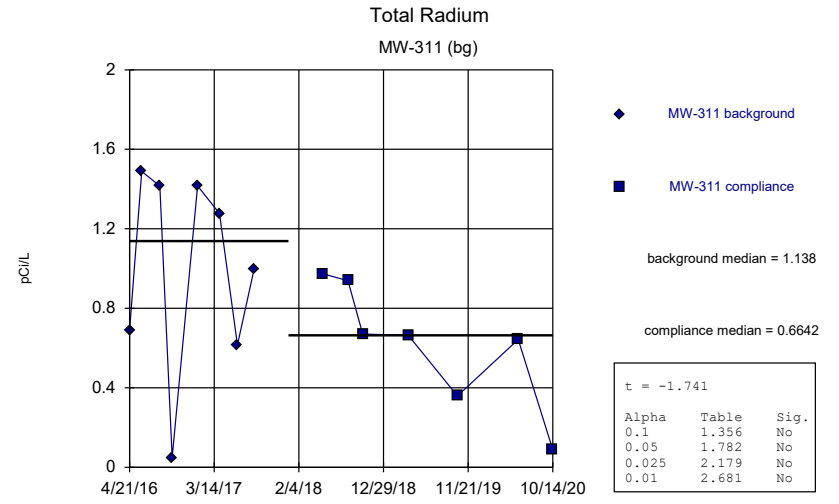
Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8943, critical = 0.818.

Welch's t-test Analysis Run 8/6/2021 5:26 PM View: Background
Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev



Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9674, critical = 0.818.

Welch's t-test Analysis Run 8/6/2021 5:26 PM View: Background
 Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev



Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8864 after square transformation, critical = 0.818.

Welch's t-test Analysis Run 8/6/2021 5:26 PM View: Background
 Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

Attachment 4

Interwell Prediction Limit Analysis

Prediction Limit

Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev Printed 8/6/2021, 4:50 PM

| <u>Constituent</u> | <u>Well</u> | <u>Upper Lim.</u> | <u>Lower Lim.</u> | <u>Date</u> | <u>Observ.</u> | <u>Sig.</u> | <u>Bg N</u> | <u>Bg Wells</u> | <u>Bg Mean</u> | <u>Std. Dev.</u> | <u>%NDs</u> | <u>ND Adj.</u> | <u>Transform</u> | <u>Alpha</u> | <u>Method</u> |
|-------------------------------|-------------|-------------------|-------------------|-------------|----------------|-------------|-------------|-----------------|----------------|------------------|-------------|----------------|------------------|--------------|--------------------------|
| Antimony (ug/L) | n/a | 1.90 | n/a | n/a | 14 future | n/a | 30 | MW-311,MW-310 | n/a | n/a | 66.67 | n/a | n/a | 0.001816 | NP Inter (NDs) 1 of 2 |
| Arsenic (ug/L) | n/a | 79.8 | n/a | n/a | 14 future | n/a | 30 | MW-311,MW-310 | n/a | n/a | 0 | n/a | n/a | 0.001816 | NP Inter (normality) ... |
| Barium (ug/L) | n/a | 829 | n/a | n/a | 14 future | n/a | 30 | MW-311,MW-310 | n/a | n/a | 0 | n/a | n/a | 0.001816 | NP Inter (normality) ... |
| Beryllium (ug/L) | n/a | 0.270 | n/a | n/a | 14 future | n/a | 30 | MW-310,MW-311 | n/a | n/a | 90 | n/a | n/a | 0.001816 | NP Inter (NDs) 1 of 2 |
| Boron (ug/L) | n/a | 3500 | n/a | n/a | 14 future | n/a | 30 | MW-310,MW-311 | n/a | n/a | 0 | n/a | n/a | 0.001816 | NP Inter (normality) ... |
| Cadmium (ug/L) | n/a | 0.0770 | n/a | n/a | 14 future | n/a | 30 | MW-311,MW-310 | n/a | n/a | 96.67 | n/a | n/a | 0.001816 | NP Inter (NDs) 1 of 2 |
| Calcium (mg/L) | n/a | 220 | n/a | n/a | 14 future | n/a | 32 | MW-310,MW-311 | 147.1 | 29.18 | 0 | None | No | 0.0001792 | Param Inter 1 of 2 |
| Chloride (mg/L) | n/a | 193 | n/a | n/a | 14 future | n/a | 32 | MW-310,MW-311 | 86.23 | 42.63 | 0 | None | No | 0.0001792 | Param Inter 1 of 2 |
| Chromium (ug/L) | n/a | 1.33 | n/a | n/a | 14 future | n/a | 30 | MW-310,MW-311 | 0.346 | 0.3179 | 40 | Aitch... | sqrt(x) | 0.0001792 | Param Inter 1 of 2 |
| Cobalt (ug/L) | n/a | 2.70 | n/a | n/a | 14 future | n/a | 29 | MW-311,MW-310 | n/a | n/a | 13.79 | n/a | n/a | 0.001948 | NP Inter (normality) ... |
| Field pH (Std. Units) | n/a | 7.55 | n/a | n/a | 14 future | n/a | 32 | MW-310,MW-311 | 7.167 | 0.1513 | 0 | None | No | 0.0001792 | Param Inter 1 of 2 |
| Fluoride (mg/L) | n/a | 0.650 | n/a | n/a | 14 future | n/a | 32 | MW-310,MW-311 | n/a | n/a | 6.25 | n/a | n/a | 0.001643 | NP Inter (normality) ... |
| Lead (ug/L) | n/a | 1.10 | n/a | n/a | 14 future | n/a | 30 | MW-311,MW-310 | n/a | n/a | 63.33 | n/a | n/a | 0.001816 | NP Inter (NDs) 1 of 2 |
| Lithium (ug/L) | n/a | 9.80 | n/a | n/a | 14 future | n/a | 30 | MW-311,MW-310 | n/a | n/a | 90 | n/a | n/a | 0.001816 | NP Inter (NDs) 1 of 2 |
| Mercury (ug/L) | n/a | 0.130 | n/a | n/a | 14 future | n/a | 26 | MW-310,MW-311 | n/a | n/a | 96.15 | n/a | n/a | 0.002346 | NP Inter (NDs) 1 of 2 |
| Molybdenum (ug/L) | n/a | 25.2 | n/a | n/a | 14 future | n/a | 29 | MW-310,MW-311 | 2.896 | 0.8332 | 0 | None | sqrt(x) | 0.0001792 | Param Inter 1 of 2 |
| Selenium (ug/L) | n/a | 1.00 | n/a | n/a | 14 future | n/a | 30 | MW-311,MW-310 | n/a | n/a | 56.67 | n/a | n/a | 0.001816 | NP Inter (NDs) 1 of 2 |
| Sulfate (mg/L) | n/a | 288 | n/a | n/a | 14 future | n/a | 32 | MW-310,MW-311 | 108.1 | 71.53 | 0 | None | No | 0.0001792 | Param Inter 1 of 2 |
| Thallium (ug/L) | n/a | 0.500 | n/a | n/a | 14 future | n/a | 24 | MW-311,MW-310 | n/a | n/a | 91.67 | n/a | n/a | 0.002696 | NP Inter (NDs) 1 of 2 |
| Total Dissolved Solids (mg/L) | n/a | 1160 | n/a | n/a | 14 future | n/a | 32 | MW-310,MW-311 | 707.4 | 178.2 | 0 | None | No | 0.0001792 | Param Inter 1 of 2 |
| Total Radium (pCi/L) | n/a | 3.28 | n/a | n/a | 14 future | n/a | 30 | MW-310,MW-311 | 1.053 | 0.2996 | 0 | None | sqrt(x) | 0.0001792 | Param Inter 1 of 2 |