Data Validation Summary Report
Semi-Annual Groundwater Monitoring and GWETS Performance Sampling
July through December 2021, Revision 1
Nevada Environmental Response Trust (NERT)
Henderson, Nevada

Prepared for

Ramboll
Emeryville, California

Prepared by

Laboratory Data Consultants, Inc.
2701 Loker Avenue West, Suite 220
Carlsbad, California 92010

December 8, 2022

Semi-Annual Groundwater Monitoring and GWETS Performance Sampling DVSR and EDD July through December 2021, Revision 1

Nevada Environmental Response Trust Site (Former Tronox LLC Site) Henderson, Nevada

Nevada Environmental Response Trust (NERT) Representative Certification

I certify that this document and all attachments submitted to the Division were prepared at the request of, or under the direction or supervision of NERT. Based on my own involvement and/or my inquiry of the person or persons who manage the system(s) or those directly responsible for gathering the information or preparing the document, or the immediate supervisor of such person(s), the information submitted and provided herein is, to the best of my knowledge and belief, true, accurate, and complete in all material respects.

Office of the Nevada Environmental Response Trust

Le Petomane XXVII, Inc., not individually, but solely in its representative capacity as the Nevada Environmental Response Trust Trustee

Signature: Jay A Steinberg Not Individually, but Solely as President of the Trustee

Name: Jay A. Steinberg, not individually, but solely in his representative capacity as President of the Nevada Environmental Response Trust Trustee

Title: Solely as President and not individually

Company: Le Petomane XXVII, Inc., not individually, but solely in its representative capacity as the Nevada Environmental Response Trust Trustee

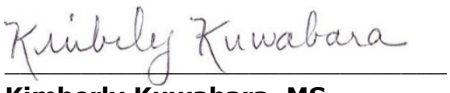
Date: 12/8/22

Semi-Annual Groundwater Monitoring and GWETS Performance Sampling DVSR and EDD July through December 2021, Revision 1

Nevada Environmental Response Trust Site (Former Tronox LLC Site) Henderson, Nevada

Responsible Certified Environmental Manager (CEM) for this project

I hereby certify that I am responsible for the services described in this document and for the preparation of this document. The services described in this document have been provided in a manner consistent with the current standards of the profession and, to the best of my knowledge, comply with all applicable federal, state and local statutes, regulations and ordinances.



December 8, 2022

Kimberly Kuwabara, MS
Senior Managing Consultant

Date

Certified Environmental Manager
Ramboll US Corporation, Inc.
CEM Certificate Number: 2353
CEM Expiration Date: March 20, 2023

Table of Contents

LIST OF TABLES

ATTACHMENTS

LIST OF ACRONYMS AND ABBREVIATIONS

DL	Detection Limit
DNR	Do Not Report
DQO	Data Quality Objectives
DUP	Duplicate
DVSR	Data Validation Summary Report
EB	Equipment Blank
EPA	United States Environmental Protection Agency
FB	Field Blank
FD	Field Duplicate
GWETS	Groundwater Extraction and Treatment System
LCS/LCSD	Laboratory Control Sample / Laboratory Control Sample Duplicate
LDC	Laboratory Data Consultants, Inc.
MDL	Method Detection Limit
MS/MSD	Matrix Spike / Matrix Spike Duplicate
NDEP	Nevada Department of Environmental Protection
NERT	Nevada Environmental Response Trust
NFG	National Functional Guidelines
NO3/NO2-N	Nitrate/Nitrite as Nitrogen
PARCCS	Precision, Accuracy, Representativeness, Comparability, Completeness, Sensitivity
PQL	Practical Quantitation Limit
QA/QC	Quality Assurance / Quality Control
RPD	Relative Percent Difference
SAP	Sampling and Analysis Plan
SDG	Sample Delivery Group
SQL	Sample Quantitation Limit
TB	Trip Blank
TDS	Total Dissolved Solids
TIN	Total Inorganic Nitrogen
TOC	Total Organic Carbon
TOX	Total Organic Halides
TRP	Total Recoverable Phenolics
%R	Percent Recovery

1.0 INTRODUCTION

This data validation summary report (DVSR) has been prepared by Laboratory Data Consultants, Inc. (LDC) to assess the validity and usability of laboratory analytical data from the Groundwater Monitoring and Groundwater Extraction and Treatment System (GWETS) Performance Sampling conducted during July to December 2021 at the Nevada Environmental Response Trust (NERT) site in Henderson, Nevada. Data collection and management was performed in accordance with the *Remedial Performance Sampling and Analysis Plan, Revision 1, Nevada Environmental Response Trust Site, Henderson, Nevada* (SAP Revision 1) dated March 2020 and included the collection and analyses of 719 environmental and quality control (QC) samples. The analyses were performed by the following methods:

Metals by Environmental Protection Agency (EPA) Methods 200.7
Wet Chemistry:
Hexavalent Chromium by EPA Method 218.6
Chloride, Nitrate as Nitrogen, Nitrite as Nitrogen, and Sulfate (Anions) by EPA Method 300.0
Nitrate/Nitrite as Nitrogen (NO3/NO2-N) and Total Inorganic Nitrogen (TIN) by Calculation
Chlorate by EPA Method 300.1B
Perchlorate by EPA Method 314.0
Ammonia as Nitrogen by EPA Method 350.1
Total Recoverable Phenolics (TRP) by EPA Method 420.4
Conductivity by Standard Method 2510B
Total Dissolved Solids (TDS) by Standard Method 2540C
Total Organic Carbon (TOC) by Standard Method 5310B
Total Organic Halides (TOX) by EPA SW 846 Method 9020B
Field pH by Field Test Method

Laboratory analytical services were provided by Eurofins. Field pH readings were recorded on the chain-of-custody at the time of sampling and reported with the analytical data. The samples were grouped into sample delivery groups (SDGs). The water samples are associated with quality assurance and quality control (QA/QC) samples designed to document the data quality of the entire SDG or a sub-group of samples within an SDG. Table I is a cross-reference table listing each sample, analysis, SDG, collection date, laboratory sample number, matrix, and validation level. An individual sample may be on multiple rows if it is reported on more than one SDG. Table II is a reference table that identifies the QC elements reviewed for each validation level per method, as applicable.

The laboratory analytical data were validated in accordance with procedures described in the Nevada Division of Environmental Protection (NDEP) *Data Validation Guidance* established for the BMI Plant Sites and Common Areas Projects, Henderson, Nevada, July 13, 2018. Consistent with the NDEP requirements, one hundred percent of the analytical data were validated according to Stage 2A data validation procedures. The number of analytical results for each method is presented in Table III.

The analytical data were evaluated for QA/QC based on the following documents: SAP Revision 1 (March 2020), *USEPA National Functional Guidelines (NFG) for Inorganic Superfund Methods Data Review* (November 2020); and the *EPA SW 846 Third Edition, Test Methods for Evaluating Solid Waste,* update I, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IV, February 2007; update V, July 2014.

This report summarizes the QA/QC evaluation of the data according to precision, accuracy, representativeness, completeness, comparability, and sensitivity (PARCCS) relative to the project data quality objectives (DQOs). This report provides a quantitative and qualitative assessment of the data and identifies potential sources of error, uncertainty, and bias that may affect the overall usability.

PARCCS summary report evaluates and summarizes the results of QA/QC data validation for the entire sampling program. Each analytical fraction has a separate section for each of the PARCCS criteria. These sections interpret specific QC deviations and their effects on both individual data points and the analyses as a whole. Section 5.0 presents a summary of the PARCCS criteria by comparing quantitative parameters with acceptability criteria defined in the project DQOs. Qualitative PARCCS criteria are also summarized in this section.

Precision and Accuracy of Environmental Data

Environmental data quality depends on sample collection procedures, analytical methods and instrumentation, documentation, and sample matrix properties. Both sampling procedures and laboratory analyses contain potential sources of uncertainty, error, and/or bias, which affect the overall quality of a measurement. Errors for sample data may result from incomplete equipment decontamination, inappropriate sampling techniques, sample heterogeneity, improper filtering, and improper preservation. The accuracy of analytical results is dependent on selecting appropriate analytical methods, maintaining equipment properly, and complying with QC requirements. The sample matrix also is an important factor in the ability to obtain precise and accurate results within a given media.

Environmental and laboratory QA/QC samples assess the effects of sampling procedures and evaluate laboratory contamination, laboratory performance, and matrix effects. QA/QC samples include: trip blanks (TB), equipment blanks (EB), field blanks (FB), field duplicates (FD), method blanks, laboratory control samples/laboratory control sample duplicates (LCS/LCSD), laboratory duplicates (DUP), and matrix spike/matrix spike duplicates (MS/MSD).

Before conducting the PARCCS evaluation, the analytical data were validated according to the NDEP Data Validation Guidance (July 2018), NFG (USEPA 2020), and EPA SW 846 Test Methods. Samples not meeting the acceptance criteria were qualified with a flag, an abbreviation indicating a deficiency with the data. The following are flags used in data validation.

J- Estimated The associated numerical value is an estimated quantity with a negative bias. The analyte was detected but the reported value may not be accurate or precise.

J+ Estimated The associated numerical value is an estimated quantity with a positive bias. The analyte was detected but the reported value may not be accurate or precise.

J Estimated The associated numerical value is an estimated quantity. It is not possible to assess the direction of the potential bias. The analyte was detected but the reported value may not be accurate or precise. The "J" qualification indicates the data fell outside the QC limits, but the exceedance was not sufficient to cause rejection of the data.

R Rejected The data is unusable (the analyte may or may not be present). Use of the "R" qualifier indicates a significant variance from functional guideline acceptance criteria. Either resampling or reanalysis is necessary to determine the presence or absence of the rejected analyte.

U Nondetected Analyses were performed for the analyte, but it was not detected.

UJ Estimated/Nondetected Analyses were performed for the analyte, but it was not detected, and the sample quantitation or detection limit is an estimated quantity due to poor accuracy or precision. This qualification is also used to flag possible false negative results in the case where low bias in the analytical system is indicated by low calibration response, surrogate, or other spike recovery.

DNR Do Not Report A more appropriate result is reported from another analysis or dilution.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

The hierarchy of flags is listed below:

R > J	The R flag will always take precedence over the J qualifier.
J+	The high bias (J+) flag is applied only to detected results.
J > J+ or J-	A non-biased (J) flag will always supersede biased (J+ or J-) flags since it is not possible to assess the direction of the potential bias.
J = J+ plus J-	Adding biased (J+, J-) flags with opposite signs will result in a non-biased flag (J).
UJ = U plus J	The UJ flag is used when a non-detected (U) flag is added to a non-biased flag (J).

Table IV lists the reason codes used. Reason codes explain why flags have been applied and allow data users to assess if a result is usable with qualification due to QA/QC outliers or not usable when rejected due to QA/QC outliers. Reason codes are cumulative except when one of the flags is R then only the reason code associated to the R flag will be used.

Table V presents the overall qualified results after all the flags or validation qualifiers and associated reason codes have been applied.

Once the data are reviewed and qualified according to the NDEP Data Validation Guidance (July 2018), NFG, and EPA Test Methods, the data set is then evaluated using PARCCS criteria. PARCCS criteria provide an evaluation of overall data usability. The following is a discussion of PARCCS criteria as related to the project DQOs.

Precision is a measure of the agreement or reproducibility of analytical results under a given set of conditions. It is a quantity that cannot be measured directly but is calculated from reported concentrations.

Precision is expressed as the relative percent difference (RPD):

$$RPD = (D1-D2)/\{1/2(D1+D2)\} \times 100$$

where:
D1 = reported concentration for the sample
D2 = reported concentration for the duplicate

Precision is primarily assessed by calculating an RPD from the reported concentrations of the spiked compounds for each sample in the MS/MSD pair. In the absence of an MS/MSD pair, a laboratory duplicate or LCS/LCSD pair can be analyzed as an alternative means of assessing precision. An additional measure of sampling precision was obtained by collecting and analyzing field duplicate samples, which were compared using the RPD result as the evaluation criteria.

MS and MSD samples are field samples spiked by the laboratory with target analytes prior to preparation and analysis. These samples measure the overall efficiency of the analytical method in recovering target analytes from an environmental matrix. An LCS is similar to an MS/MSD sample in that the LCS is spiked with the same target analytes prior to preparation and analysis. However, the LCS is prepared

using a controlled interference-free matrix instead of a field sample aliquot. Laboratory reagent water is used to prepare aqueous LCS. The LCS measures laboratory efficiency in recovering target analytes from an aqueous matrix in the absence of matrix interferences.

DUPs measure laboratory precision. DUPs are replicate samples and are prepared by taking two aliquots from one sample container. The analytical results for DUPs are reported as the RPD between the results of the two aliquots.

Laboratory and field sampling precision are evaluated by calculating RPDs for field sample duplicate pairs. The sampler collects two field samples at the same location and under identically controlled conditions. The laboratory then analyzes the samples under identical conditions.

An RPD outside the numerical QC limit in the LCS/LCSD, MS/MSD, DUPs, or field duplicates indicates imprecision. Imprecision is the variance in the consistency with which the laboratory arrives at a particular reported result. Thus, the actual analyte concentration may be higher or lower than the reported result.

Possible causes of poor precision include sample heterogeneity, improper sample collection or handling, inconsistent sample preparation, and poor instrument stability. In some duplicate pairs, results maybe reported in either the primary or duplicate samples at levels below the practical quantitation limit (PQL) or non-detected. Since these values are considered to be estimates, RPD exceedances from these duplicate pairs do not suggest a significant impact on the data quality.

Accuracy is a measure of the agreement of an experimental determination and the true value of the parameter being measured. It is used to identify bias in a given measurement system. Recoveries outside acceptable QC limits may be caused by factors such as instrumentation, analyst error, or matrix interference. Accuracy is assessed through the analysis of MS, MSD, LCS, and samples containing surrogate spikes. In some cases, samples from multiple SDGs were within one QC batch and therefore are associated with the same laboratory QC samples. Surrogate spikes are either isotopically labeled compounds or compounds that are not typically detected in the samples. Surrogate spikes are added to every blank, environmental sample, LCS, MS/MSD, and standard, for all applicable organic analyses. Accuracy of inorganic analyses is determined using the percent recoveries of MS and LCS analyses.

Percent recovery (%R) is calculated using the following equation:

$$\%R = (A-B)/C \times 100$$

where:
A = measured concentration in the spiked sample
B = measured concentration of the spike compound in the unspiked sample
C = concentration of the spike

The percent recovery of each analyte spiked in MS/MSD samples, LCS/LCSD, and surrogate compounds added to environmental samples is evaluated with the acceptance criteria specified by the previously noted documents. Spike recoveries outside the acceptable QC accuracy limits provide an indication of bias, where the reported data may overestimate or underestimate the actual concentration of compounds detected or quantitation limits reported for environmental samples.

Representativeness is a qualitative parameter that expresses the degree to which the sample data are characteristic of a population. It is evaluated by reviewing the QC results of blanks, samples and holding times. Positive detects of compounds in the blank samples identify compounds that may have been introduced into the samples during sample collection, transport, preparation, or analysis. The QA/QC blanks collected and analyzed are method blanks, EBs, and FBs.

A method blank is a laboratory grade water or solid matrix that contains the method reagents and has undergone the same preparation and analysis as the environmental samples. The method blank provides a measure of the combined contamination derived from the laboratory source water, glassware, instruments, reagents, and sample preparation steps. Method blanks are prepared for each sample of a similar matrix extracted by the same method at a similar concentration level.

Trip blanks are used to identify possible volatile organic contamination introduced into the sample during transport. A trip blank is a sample bottle filled in the laboratory with reagent-grade water and preserved to a pH less than 2 with hydrochloric acid or solid matrix. It is transported to the site, stored with the sample containers, and returned unopened to the laboratory for analysis.

Equipment blanks consist of analyte-free water poured over or through the sample collection equipment. The water is collected in a sample container for laboratory analysis. These blanks are collected after the sampling equipment is decontaminated and measure effectiveness of the decontamination procedure.

Field blanks consist of analyte-free source water stored at the sample collection site. The water is collected from each source water used during each sampling event.

Holding times are evaluated to assure that the sample integrity is intact for accurate sample preparation and analysis. Holding times will be specific for each method and matrix analyzed. Holding time exceedance can cause loss of sample constituents due to biodegradation, precipitation, volatization, and chemical degradation.

Comparability is a qualitative expression of the confidence with which one data set may be compared to another. It provides an assessment of the equivalence of the analytical results to data obtained from other analyses. It is important that data sets be comparable if they are used in conjunction with other data sets. The factors affecting comparability include the following: sample collection and handling techniques, matrix type, and analytical method. If these aspects of sampling and analysis are carried out according to standard analytical procedures, the data are considered comparable. Comparability is also dependent upon other PARCCS criteria, because only when precision, accuracy, and representativeness are known can data sets be compared with confidence.

Completeness is defined as the percentage of acceptable sample results compared to the total number of sample results. Completeness is evaluated to determine if an acceptable amount of usable data were obtained so that a valid scientific site assessment can be completed. Completeness equals the total number of sample results for each fraction minus the total number of rejected sample results divided by the total number of sample results multiplied by 100. As specified in the project DQOs, the goal for completeness for target analytes in each analytical fraction is 90 percent.

Percent completeness is calculated using the following equation:

$$\%C = (T - R)/T \times 100$$

where:
%C = percent completeness
T = total number of sample results
R = total number of rejected sample results

Completeness is also determined by comparing the planned number of samples per method and matrix as specified in the SAP Revision 1 (March 2020), with the number determined above.

Sensitivity is the ability of an analytical method or instrument to discriminate between measurement responses representing different concentrations. This capability is established during the planning phase to meet the DQOs. It is important that detection limits (DLs), and PQLs presented in the SAP Revision 1

(March 2020) are achieved and that target analytes can be detected at concentrations necessary to support the DQOs. The method detection limits (MDLs) represent the minimum concentration of a substance that can be measured and reported with 99 percent confidence that the analyte concentration is greater than zero. Sample quantitation limits (SQLs) are adjusted MDL values that reflect sample specific actions, such as dilutions or varying aliquot sizes. PQLs are the lowest level at which the entire analytical system gives a recognizable signal and acceptable calibration point for the analyte. The laboratory is required to report detected analytes down to the SQL for this project. In addition, sample results are compared to method blank and field blank results to identify potential effects of laboratory background and field procedures on sensitivity.

The QA/QC criteria were met with the exceptions noted in the following sections for each analytical method.

2.0 METALS

All metals data were assessed to be valid since none of the 535 total results were rejected based on holding time and QC exceedances. This section discusses the QA/QC supporting documentation as defined by the PARCCS criteria and evaluated based on the DQOs.

2.1 Precision and Accuracy

2.1.1 MS/MSD Samples

In instances where MS/MSD %Rs were above the laboratory acceptance criteria and the associated results were not detected or greater than 4X the spike concentration no data were qualified.

All MS/MSD RPDs met the laboratory acceptance criteria.

2.1.2 LCS/LCSD Samples

All LCS/LCSD %Rs and RPDs met the laboratory acceptance criteria.

2.1.3 FD Samples

All FD RPDs met the acceptance criteria.

2.2 Representativeness

2.2.1 Sample Preservation and Holding Times

The evaluation of holding times to verify compliance with the method was conducted. All samples met the 180-day analysis holding time criteria.

2.2.2 Blanks

Method blanks, EBs, and FBs were analyzed to evaluate representativeness. The concentration for an individual target analyte in any of the types of QA/QC blanks was used for data qualification.
If contaminants were detected in a blank, corrective actions were made for the chemical analytical data during data validation. The corrective action consisted of amending the laboratory reported results based on the following criteria.

> Results Below the PQL - If a sample result was less than the PQL, the sample result was qualified as estimated (J) at the reported concentration. Reason codes are applied to distinguish if the

blank concentration was above or below the PQL.

Results Above the PQL - If a sample result and blank contaminant value were greater than the PQL and the sample result was less than 10 times the blank contaminant value, the sample result was qualified as detected estimated (J+) at the reported concentration. Reason codes are applied to distinguish if the blank concentration was above or below the PQL.

No Action - If blank contaminant values were less than the PQL and associated sample results were greater than the PQL, or if blank contaminant values were greater than the PQL and associated sample results were greater than 10 times the blank contaminant value, the result was not qualified.

2.2.2.1 Method Blanks

As a result of contamination found in the associated method blanks, the manganese result for sample M-7B-20210818 was qualified as detected estimated (J). The details regarding the qualification of results are provided in Attachment A.

2.2.2.2 EBs and FBs

No data were qualified due to the contaminants detected in the equipment and field blanks.

2.3 Comparability

The laboratory used standard analytical methods for all of the analyses. In all cases, the SQLs attained were at or below the PQLs. Target analytes detected below the PQLs flagged (J) by the laboratory should be considered estimated. The comparability of the metals data is regarded as acceptable.

2.4 Completeness

The completeness level attained for metal field samples was 100 percent. This percentage was calculated as the total number of accepted sample results divided by the total number of sample results multiplied by 100.

2.5 Sensitivity

The calibration was evaluated for instrument sensitivity and was determined to be technically acceptable. All laboratory PQLs were acceptable.

3.0 WET CHEMISTRY

All wet chemistry data were assessed to be valid since none of the 3,071 total results were rejected based on holding time and QC exceedances. This section discusses the QA/QC supporting documentation as defined by the PARCCS criteria and evaluated based on the DQOs.

3.1 Precision and Accuracy

3.1.1 Surrogate

All surrogate %Rs met the laboratory acceptance criteria.

3.1.2 MS/MSD Samples

MS/MSD samples were evaluated for anions, hexavalent chromium, chlorate, perchlorate, and total recoverable phenolics.

Eight (8) chlorate, and eight (8) nitrate as nitrogen results were qualified as detected estimated (J-) due to MS/MSD %Rs below the laboratory acceptance criteria. The bias flag (-) was removed for two (2) of the nitrate as nitrogen results because the results were also qualified for field duplicate RPD.

Twenty (20) hexavalent chromium, and 35 chlorate results were qualified as detected estimated (J+) due to MS/MSD %Rs above the laboratory acceptance criteria.

Eight (8) chlorate, and nine (9) hexavalent chromium results were qualified as detected estimated (J) due to MS/MSD %Rs both above and below the laboratory acceptance criteria.

Eight (8) chlorate results were qualified as detected estimated (J) due to an MS/MSD RPD above the laboratory acceptance criteria.

The details regarding the qualification of results are presented in Attachment B.

In instances where MS/MSD %Rs were above the laboratory acceptance criteria and the associated results were not detected or greater than 4X the spike concentration no data were qualified.

3.1.3 DUP Samples

DUP samples were evaluated for TDS. All DUP RPDs met the laboratory criteria.

3.1.4 LCS/LCSD Samples

All LCS/LCSD %Rs and RPDs met the laboratory acceptance criteria

3.1.5 FD Samples

Due to RPDs outside the acceptance criteria of ≤ 30, two (2) chlorate results that were reported above the PQL in field duplicate samples E2-1-20210811 and E2-1-20210811-FD, two (2) hexavalent chromium results that were reported above the PQL in field duplicate samples ART-8-20211115 and ART-8A-20211115-FD and six (6) nitrate as nitrogen results that were reported above the PQL in field duplicate samples ART-8A-20210714 and ART-8A-20210714-FD, PC-119-20210714 and PC-119-20210714-FD, and ART-2/2A-20210915 and ART-2/2A-20210915-FD were qualified as detected estimated (J). The details regarding the qualification of results are presented in Attachment B.

Given the additional uncertainty in results reported below the PQL, no data were qualified when the RPDs were outside the QAPP acceptance criteria and the associated results in either the primary or duplicate samples were below the PQL or not detected.

3.1.6 Target Analyte Quantitation

The nitrate as nitrogen result for sample I-E-20210803 was qualified as detected estimated (J). The associated result exceeded the calibration range. The sample was diluted and re-analyzed outside of hold time, but not reported by the laboratory because the result confirmed the original result. Because the laboratory stated the results confirmed each other and either result would be considered estimated, the decision was made to retain the original result and not revise the laboratory report or DVSR.

3.2 Representativeness

3.2.1 Sample Preservation and Holding Times

The evaluation of holding times to verify compliance with all wet chemistry methods was conducted. All water samples met the 24-hour analysis holding time criteria for hexavalent chromium, 48-hour analysis holding time criteria for nitrite as nitrogen, and the 28-day analysis holding time criteria for ammonia as nitrogen, chloride, conductivity, phenolics, sulfate, TOC, and TOX.

Three (3) nitrate as nitrogen results were qualified as detected estimated (J-) as a result of exceeding the analysis holding time criteria of 48 hours, seven (7) TDS result was qualified as detected estimated (J-) and estimated non-detect (UJ) as a result of exceeding the analysis holding time criteria of seven days, and one (1) perchlorate result was qualified as detected estimated (J-) as a result of exceeding the analysis holding time criteria of 28 days. The initial analyses for these samples were performed within the method holding time, but the samples were re-analyzed outside the holding time because the initial analysis exceeded the calibration range or due to a QC nonconformance.

3.2.2 Blanks

Method blanks, EBs, and FBs were analyzed to evaluate representativeness.

If contaminants were detected in a blank, corrective actions were made for the chemical analytical data during data validation based on the criteria presented in Section 2.2.2.

3.2.2.1 Method Blanks

No contaminants were detected in the method blanks.

3.2.2.2 EBs and FBs

No data were qualified due to the contaminants detected in the equipment and field blanks.

3.3 Comparability

The laboratory used standard analytical methods for all of the analyses. In all cases, the SQLs attained were at or below the PQLs. Target analytes detected below the PQLs flagged (J) by the laboratory should be considered estimated. The comparability of the data is regarded as acceptable.

In the case where more than one result was reported for an individual sample, the least technically acceptable results were deemed not reportable.

3.4 Completeness

The completeness level attained for wet chemistry field samples was 100 percent. This percentage was calculated as the total number of accepted sample results divided by the total number of sample results multiplied by 100.

3.5 Sensitivity

The calibration was evaluated for instrument sensitivity and was determined to be technically acceptable. All laboratory PQLs were acceptable.

4.0 VARIANCES IN ANALYTICAL PERFORMANCE

The laboratory used standard analytical methods for all analyses throughout the project. The analyses were conducted within all specifications of the method. For this data set TOC was analyzed by Method Standard Method 5310B, instead of Method 5310C as specified in SAP Revision 1 (March 2020). The detection limit for Method 5310C is typically lower than Method 5310B; however, TOC was detected in all of the samples collected as part of this sampling event. Therefore, the method variance does not affect data usability.

No systematic variances in analytical performance were noted in the laboratory case narratives.

5.0 SUMMARY OF PARCCS CRITERIA

The validation reports present the PARCCS results for all SDGs. Each PARCCS criterion is discussed in detail in the following sections.

5.1 Precision and Accuracy

Precision and accuracy were evaluated using data quality indicators such as surrogates, MS/MSD, DUP, LCS/LCSD, and field duplicates. The precision and accuracy of the data set were considered acceptable after integration of result qualification.

All surrogate, MS/MSD, DUP, LCS/LCSD, and field duplicate percent recoveries and RPDs met acceptance criteria and all results were within the calibration range with the exceptions noted in Sections 3.1.2, 3.1.5 and 3.1.6.

5.2 Representativeness

All samples for each method and matrix were evaluated for holding time compliance. All holding times were met with the exception noted in Section 3.2.1. All samples were associated with a method blank in each individual SDG. The representativeness of the project data is considered acceptable after integration of result qualification due to blank contamination as noted in Section 2.2.2.1.

5.3 Comparability

Sampling frequency requirements were met in obtaining necessary field blanks and field duplicates. The laboratory used standard analytical methods for the analyses. The analytical results were reported in correct standard units. Sample integrity criteria were met and sample preservation and holding times were within QC criteria with the exception noted in Section 3.2.1. The overall comparability is considered acceptable after integration of result qualification.

5.4 Completeness

Of the 3,606 total analytes reported, none of the results were rejected. The completeness for the SDGs is as follows:

Parameter	Total Number of Validated Results	Number of Rejected Results	Percent Completeness
Metals	535	0	100
Wet Chemistry:			
CrVI	400	0	100
Anions	507	0	100
NO3/NO2-N and TIN	4	0	100

Chlorate	704	0	100
Perchlorate	719	0	100
Ammonia-N	2	0	100
Total Recoverable Phenolics	4	0	100
Conductivity	4	0	100
TDS	719	0	100
TOC	4	0	100
TOX	4	0	100
Total	**3,606**	**0**	**100**

The completeness percentage based on rejected data met the 90 percent DQO goal.

5.5 Sensitivity

Sensitivity was achieved by the laboratory to support the DQOs. Calibration concentrations, metals, and wet chemistry PQLs met the project requirements and low-level contamination in the method blanks, equipment blanks, and field blanks did not affect sensitivity.

6.0 CONCLUSIONS AND RECOMMENDATIONS

The analytical data quality assessment for the water sample laboratory analytical results generated during the July to December 2021 Groundwater Monitoring and GWETS Performance Sampling at the NERT site in Henderson, Nevada established that the overall project requirements and completeness levels were met. No sample results included in this data set were rejected (R). Sample results that were found to be estimated (J) are usable for limited purposes only. Based upon the Stage 2A data validation, all other results are considered valid and usable for all purposes.

7.0 REFERENCES

American Public Health Association 2012. Standard Method for the Examination of Water and Wastewater (22nd ed.). Washington, DC: American Public Health Association; Rice, Baird, Eaton, and Clesceri.

NDEP 2018. NDEP Data Validation Guidance. July.

NDEP. 2018b. Email from NDEP to the Trust regarding Multiple Results Reported. December 7.

Ramboll 2020. Remedial Performance Sampling and Analysis Plan, Nevada Environmental Response Trust Site, Henderson, Nevada. March 9. NDEP approved April 30, 2020.

Region 9 Superfund Data Evaluation/Validation Guidance, R6QA/006.1, Draft. December 2001.

USEPA 1983. EPA Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, Cincinnati, Ohio. March.

USEPA 1996. EPA SW 846 Third Edition, Test Methods for Evaluating Solid Waste, update I, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IV, February 2007; update V, July 2014.+

USEPA 2020. USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review. November.

TABLES

Table I. Sample Cross-Reference

LDC	SDG	Client Sample ID	Lab ID	Sample Date	Validation Level	Matrix	QC Type	Chromium (200.7)	Metals (200.7)	CrVI (218.6)	Anions (300.0)	TIN (Calc)	Chlorate (300.1)	Perchlorate (314.0)	Ammonia as N (350.1)	Phenolics (420.4)	Conductivity (2510B)	TDS (2540C)	TOC (SM5310B)	TOX (SW9020)
51824	5501666071	I-C-20210707	550-166607-1	07/07/21	Stage 2A	Water		X		X	X		X	X				X		
51824	5501666071	I-F-20210707	550-166607-2	07/07/21	Stage 2A	Water		X		X	X		X	X				X		
51824	5501666071	I-X-20210707	550-166607-3	07/07/21	Stage 2A	Water		X		X	X		X	X				X		
51824	5501666071	I-N-20210707	550-166607-4	07/07/21	Stage 2A	Water		X		X	X		X	X				X		
51824	5501666071	I-E-20210707	550-166607-5	07/07/21	Stage 2A	Water		X		X	X		X	X				X		
51824	5501666071	I-M-20210707	550-166607-6	07/07/21	Stage 2A	Water		X		X	X		X	X				X		
51824	5501666071	I-D-20210707	550-166607-7	07/07/21	Stage 2A	Water		X		X	X		X	X				X		
51824	5501666071	I-X-20210707-EB	550-166607-8	07/07/21	Stage 2A	Water	EB	X		X	X		X	X				X		
51824	5501666081	I-Q-20210707	550-166608-1	07/07/21	Stage 2A	Water		X		X	X		X	X				X		
51824	5501666081	I-G-20210707	550-166608-2	07/07/21	Stage 2A	Water		X		X	X		X	X				X		
51824	5501666081	I-T-20210707	550-166608-3	07/07/21	Stage 2A	Water		X		X	X		X	X				X		
51824	5501666081	I-U-20210707	550-166608-4	07/07/21	Stage 2A	Water		X		X	X		X	X				X		
51824	5501666081	I-H-20210707	550-166608-5	07/07/21	Stage 2A	Water		X		X	X		X	X				X		
51824	5501666081	I-P-20210707	550-166608-6	07/07/21	Stage 2A	Water		X		X	X		X	X				X		
51824	5501666081	I-W-20210707	550-166608-7	07/07/21	Stage 2A	Water	FD1	X		X	X		X	X				X		
51824	5501666081	I-O-20210707	550-166608-8	07/07/21	Stage 2A	Water		X		X	X		X	X				X		
51824	5501666081	I-W-20210707-FD	550-166608-9	07/07/21	Stage 2A	Water	FD1	X		X	X		X	X				X		
51824	5501668901	I-AA-20210712	550-166890-1	07/12/21	Stage 2A	Water		X		X	X		X	X				X		
51824	5501668901	I-AB-20210712	550-166890-2	07/12/21	Stage 2A	Water		X		X	X		X	X				X		
51824	5501668901	I-B-20210712	550-166890-3	07/12/21	Stage 2A	Water		X		X	X		X	X				X		
51824	5501668901	I-R-20210712	550-166890-4	07/12/21	Stage 2A	Water		X		X	X		X	X				X		
51824	5501668901	I-Y-20210712	550-166890-5	07/12/21	Stage 2A	Water		X		X	X		X	X				X		
51824	5501668901	I-L-20210712	550-166890-6	07/12/21	Stage 2A	Water		X		X	X		X	X				X		
51824	5501668901	I-S-20210712	550-166890-7	07/12/21	Stage 2A	Water		X		X	X		X	X				X		
51824	5501668901	I-AR-20210712	550-166890-8	07/12/21	Stage 2A	Water		X		X	X		X	X				X		
51824	5501669911	E1-1-20210713	550-166991-1	07/13/21	Stage 2A	Water		X		X	X		X	X				X		
51824	5501669911	E1-2-20210713	550-166991-2	07/13/21	Stage 2A	Water	FD2	X		X	X		X	X				X		
51824	5501669911	E1-3-20210713	550-166991-3	07/13/21	Stage 2A	Water		X		X	X		X	X				X		
51824	5501669911	E2-1-20210713	550-166991-4	07/13/21	Stage 2A	Water		X		X	X		X	X				X		
51824	5501669911	E2-2-20210713	550-166991-5	07/13/21	Stage 2A	Water		X		X	X		X	X				X		
51824	5501669911	E2-3-20210713	550-166991-6	07/13/21	Stage 2A	Water		X		X	X		X	X				X		
51824	5501669911	E2-4-20210713	550-166991-7	07/13/21	Stage 2A	Water		X		X	X		X	X				X		
51824	5501669911	E2-5-20210713	550-166991-8	07/13/21	Stage 2A	Water		X		X	X		X	X				X		
51824	5501669911	E1-2-20210713-FD	550-166991-9	07/13/21	Stage 2A	Water	FD2	X		X	X		X	X				X		
51824	5501669911	E1-3-20210713-EB	550-166991-10	07/13/21	Stage 2A	Water	EB	X		X	X		X	X				X		
51824	5501670611	ART-1A-20210714	550-167061-1	07/14/21	Stage 2A	Water		X		X	X		X	X				X		

Table I. Sample Cross-Reference

LDC	SDG	Client Sample ID	Lab ID	Sample Date	Validation Level	Matrix	QC Type	Chromium (200.7)	Metals (200.7)	CrVI (218.6)	Anions (300.0)	TIN (Calc)	Chlorate (300.1)	Perchlorate (314.0)	Ammonia as N (350.1)	Phenolics (420.4)	Conductivity (2510B)	TDS (2540C)	TOC (SM5310B)	TOX (SW9020)
51824	5501670611	ART-2/2A-20210714	550-167061-2	07/14/21	Stage 2A	Water		X		X	X		X	X				X		
51824	5501670611	ART-3A-20210714	550-167061-3	07/14/21	Stage 2A	Water		X		X	X		X	X				X		
51824	5501670611	ART-4-20210714	550-167061-4	07/14/21	Stage 2A	Water		X		X	X		X	X				X		
51824	5501670611	ART-7B-20210714	550-167061-5	07/14/21	Stage 2A	Water		X		X	X		X	X				X		
51824	5501670611	ART-8A-20210714	550-167061-6	07/14/21	Stage 2A	Water		X		X	X		X	X				X		
51824	5501670611	ART-9-20210714	550-167061-7	07/14/21	Stage 2A	Water	FD3	X		X	X		X	X				X		
51824	5501670611	PC-150-20210714	550-167061-8	07/14/21	Stage 2A	Water		X		X	X		X	X				X		
51824	5501670611	ART-8A-20210714-FD	550-167061-9	07/14/21	Stage 2A	Water	FD3	X		X	X		X	X				X		
51824	5501670611	ART-9-20210714-EB	550-167061-10	07/14/21	Stage 2A	Water	EB	X		X	X		X	X				X		
51824	5501670621	PC-99R2/R3-20210714	550-167062-1	07/14/21	Stage 2A	Water		X		X	X		X	X				X		
51824	5501670621	PC-115R-20210714	550-167062-2	07/14/21	Stage 2A	Water		X		X	X		X	X				X		
51824	5501670621	PC-116R-20210714	550-167062-3	07/14/21	Stage 2A	Water		X		X	X		X	X				X		
51824	5501670621	PC-117-20210714	550-167062-4	07/14/21	Stage 2A	Water		X		X	X		X	X				X		
51824	5501670621	PC-118-20210714	550-167062-5	07/14/21	Stage 2A	Water		X		X	X		X	X				X		
51824	5501670621	PC-119-20210714	550-167062-6	07/14/21	Stage 2A	Water	FD4	X		X	X		X	X				X		
51824	5501670621	PC-120-20210714	550-167062-7	07/14/21	Stage 2A	Water		X		X	X		X	X				X		
51824	5501670621	PC-121-20210714	550-167062-8	07/14/21	Stage 2A	Water		X		X	X		X	X				X		
51824	5501670621	PC-133-20210714	550-167062-9	07/14/21	Stage 2A	Water		X		X	X		X	X				X		
51824	5501670621	PC-119-20210714-FD	550-167062-10	07/14/21	Stage 2A	Water	FD4	X		X	X		X	X				X		
51824	5501670621	PC-120-20210714-EB	550-167062-11	07/14/21	Stage 2A	Water	EB	X		X	X		X	X				X		
51824	5501670791	LVW4.2-1-2.0-20210713	550-167079-1	07/13/21	Stage 2A	Water							X	X				X		
51824	5501670791	LVW4.2-2-2.9-20210713	550-167079-2	07/13/21	Stage 2A	Water							X	X				X		
51824	5501670791	LVW4.2-3-3.1-20210713	550-167079-3	07/13/21	Stage 2A	Water							X	X				X		
51824	5501670791	LVW4.2-4-2.6-20210713	550-167079-4	07/13/21	Stage 2A	Water							X	X				X		
51824	5501670791	LVW3.5-1-1.0-20210713	550-167079-5	07/13/21	Stage 2A	Water							X	X				X		
51824	5501670791	LVW3.5-2-1.2-20210713	550-167079-6	07/13/21	Stage 2A	Water							X	X				X		
51824	5501670791	LVW3.5-3-1.6-20210713	550-167079-7	07/13/21	Stage 2A	Water							X	X				X		
51824	5501670791	LVW3.5-4-1.5-20210713	550-167079-8	07/13/21	Stage 2A	Water							X	X				X		
51824	5501670791	LVW3.5-5-1.9-20210713	550-167079-9	07/13/21	Stage 2A	Water							X	X				X		
51824	5501670791	LVW3.5-6-1.9-20210713	550-167079-10	07/13/21	Stage 2A	Water							X	X				X		
51824	5501670791	LVW0.55-0.9-20210713	550-167079-11	07/13/21	Stage 2A	Water	FD5						X	X				X		
51824	5501670791	LVW5.3-1-2.7-20210713	550-167079-12	07/13/21	Stage 2A	Water							X	X				X		
51824	5501670791	LVW5.3-2-0.9-20210713	550-167079-13	07/13/21	Stage 2A	Water							X	X				X		
51824	5501670791	LVW5.3-3-0.5-20210713	550-167079-14	07/13/21	Stage 2A	Water							X	X				X		
51824	5501670791	LVW5.3-4-0.6-20210713	550-167079-15	07/13/21	Stage 2A	Water							X	X				X		
51824	5501670791	LVW5.3-5-0.7-20210713	550-167079-16	07/13/21	Stage 2A	Water							X	X				X		

Table I. Sample Cross-Reference

LDC	SDG	Client Sample ID	Lab ID	Sample Date	Validation Level	Matrix	QC Type	Chromium (200.7)	Metals (200.7)	CrVI (218.6)	Anions (300.0)	TIN (Calc)	Chlorate (300.1)	Perchlorate (314.0)	Ammonia as N (350.1)	Phenolics (420.4)	Conductivity (2510B)	TDS (2540C)	TOC (SM5310B)	TOX (SW9020)
51824	5501670791	LVW5.3-6-0.5-20210713	550-167079-17	07/13/21	Stage 2A	Water							X	X				X		
51824	5501670791	LVW4.75-1-1.3-20210713	550-167079-18	07/13/21	Stage 2A	Water							X	X				X		
51824	5501670791	LVW4.75-2-1.4-20210713	550-167079-19	07/13/21	Stage 2A	Water							X	X				X		
51824	5501670791	LVW4.75-3-1.0-20210713	550-167079-20	07/13/21	Stage 2A	Water							X	X				X		
51824	5501670791	LVW4.75-4-1.2-20210713	550-167079-21	07/13/21	Stage 2A	Water							X	X				X		
51824	5501670791	LVW4.75-5-1.2-20210713	550-167079-22	07/13/21	Stage 2A	Water							X	X				X		
51824	5501670791	LVW8.85-0.6-20210713	550-167079-23	07/13/21	Stage 2A	Water							X	X				X		
51824	5501670791	LVW7.2-1.0-20210713	550-167079-24	07/13/21	Stage 2A	Water	FD6						X	X				X		
51824	5501670791	LVW7.2-1.0-20210713-FD	550-167079-25	07/13/21	Stage 2A	Water	FD6						X	X				X		
51824	5501670791	LVW6.6-1-1.6-20210713	550-167079-26	07/13/21	Stage 2A	Water							X	X				X		
51824	5501670791	LVW6.6-2-3.1-20210713	550-167079-27	07/13/21	Stage 2A	Water							X	X				X		
51824	5501670791	LVW6.6-3-2.2-20210713	550-167079-28	07/13/21	Stage 2A	Water							X	X				X		
51824	5501670791	LVW6.05-0.7-20210713	550-167079-29	07/13/21	Stage 2A	Water	FD7						X	X				X		
51824	5501670792	LVW6.05-0.7-20210713-FD	550-167079-30	07/13/21	Stage 2A	Water	FD7						X	X				X		
51824	5501670791	LVW6.05-20210713-FB	550-167079-31	07/13/21	Stage 2A	Water	FB						X	X				X		
51824	5501670791	C1-E-0.0-20210713	550-167079-32	07/13/21	Stage 2A	Water							X	X				X		
51824	5501670791	C1-W-0.0-20210713	550-167079-33	07/13/21	Stage 2A	Water							X	X				X		
51824	5501670791	LVW0.55-0.9-20210713-FD	550-167079-34	07/13/21	Stage 2A	Water	FD5						X	X				X		
51824	5501670791	LVW0.55-20210713-FB	550-167079-35	07/13/21	Stage 2A	Water	FB						X	X				X		
51824	5501672191	I-AC-20210715	550-167219-1	07/15/21	Stage 2A	Water		X		X	X		X	X				X		
51824	5501672191	I-AD-20210715	550-167219-2	07/15/21	Stage 2A	Water		X		X	X		X	X				X		
51824	5501672191	I-K-20210715	550-167219-3	07/15/21	Stage 2A	Water		X		X	X		X	X				X		
51824	5501672191	I-J-20210715	550-167219-4	07/15/21	Stage 2A	Water		X		X	X		X	X				X		
51824	5501672191	I-Z-20210715	550-167219-5	07/15/21	Stage 2A	Water		X		X	X		X	X				X		
51824	5501672191	I-I-20210715	550-167219-6	07/15/21	Stage 2A	Water		X		X	X		X	X				X		
51824	5501672191	I-V-20210715	550-167219-7	07/15/21	Stage 2A	Water		X		X	X		X	X				X		
52311	5501682671	I-C-20210803	550-168267-1	08/03/21	Stage 2A	Water		X		X	X		X	X				X		
52311	5501682671	I-F-20210803	550-168267-2	08/03/21	Stage 2A	Water		X		X	X		X	X				X		
52311	5501682671	I-X-20210803	550-168267-3	08/03/21	Stage 2A	Water		X		X	X		X	X				X		
52311	5501682671	I-N-20210803	550-168267-4	08/03/21	Stage 2A	Water		X		X	X		X	X				X		
52311	5501682671	I-E-20210803	550-168267-5	08/03/21	Stage 2A	Water		X		X	X		X	X				X		
52311	5501682671	I-M-20210803	550-168267-6	08/03/21	Stage 2A	Water		X		X	X		X	X				X		
52311	5501682671	I-D-20210803	550-168267-7	08/03/21	Stage 2A	Water		X		X	X		X	X				X		
52311	5501685831	LVW8.85-0.5-20210805	550-168583-1	08/05/21	Stage 2A	Water							X	X				X		
52311	5501685831	LVW7.2-1.0-20210806	550-168583-2	08/06/21	Stage 2A	Water	FD8						X	X				X		
52311	5501685831	LVW7.2-1.0-20210806-FD	550-168583-3	08/06/21	Stage 2A	Water	FD8						X	X				X		

Table I. Sample Cross-Reference

LDC	SDG	Client Sample ID	Lab ID	Sample Date	Validation Level	Matrix	QC Type	Chromium (200.7)	Metals (200.7)	CrVI (218.6)	Anions (300.0)	TIN (Calc)	Chlorate (300.1)	Perchlorate (314.0)	Ammonia as N (350.1)	Phenolics (420.4)	Conductivity (2510B)	TDS (2540C)	TOC (SM5310B)	TOX (SW9020)
52311	5501685831	LVW6.6-1-2.1-20210806	550-168583-4	08/06/21	Stage 2A	Water							X	X				X		
52311	5501685831	LVW6.6-2-3.0-20210806	550-168583-5	08/06/21	Stage 2A	Water							X	X				X		
52311	5501685831	LVW6.6-3-2.7-20210806	550-168583-6	08/06/21	Stage 2A	Water							X	X				X		
52311	5501685831	LVW6.05-0.7-20210806	550-168583-7	08/06/21	Stage 2A	Water	FD9						X	X				X		
52311	5501685831	LVW6.05-0.7-20210806-FD	550-168583-8	08/06/21	Stage 2A	Water	FD9						X	X				X		
52311	5501685831	LVW6.05-20210806-FB	550-168583-9	08/06/21	Stage 2A	Water	FB						X	X				X		
52311	5501685831	C1-E-0.0-20210805	550-168583-10	08/05/21	Stage 2A	Water							X	X				X		
52311	5501685831	C1-W-0.0-20210805	550-168583-11	08/05/21	Stage 2A	Water							X	X				X		
52311	5501685831	LVW5.3-1-2.5-20210806	550-168583-12	08/06/21	Stage 2A	Water							X	X				X		
52311	5501685831	LVW5.3-2-1.1-20210806	550-168583-13	08/06/21	Stage 2A	Water							X	X				X		
52311	5501685831	LVW5.3-3-0.3-20210806	550-168583-14	08/06/21	Stage 2A	Water							X	X				X		
52311	5501685831	LVW5.3-4-0.6-20210806	550-168583-15	08/06/21	Stage 2A	Water							X	X				X		
52311	5501685831	LVW5.3-5-0.7-20210806	550-168583-16	08/06/21	Stage 2A	Water							X	X				X		
52311	5501685831	LVW5.3-6-0.4-20210806	550-168583-17	08/06/21	Stage 2A	Water							X	X				X		
52311	5501685831	LVW4.75-1-1.0-20210805	550-168583-18	08/05/21	Stage 2A	Water							X	X				X		
52311	5501685831	LVW4.75-2-1.5-20210805	550-168583-19	08/05/21	Stage 2A	Water							X	X				X		
52311	5501685831	LVW4.75-3-1.0-20210805	550-168583-20	08/05/21	Stage 2A	Water							X	X				X		
52311	5501685831	LVW4.75-4-1.2-20210805	550-168583-21	08/05/21	Stage 2A	Water							X	X				X		
52311	5501685831	LVW4.75-5-1.1-20210805	550-168583-22	08/05/21	Stage 2A	Water							X	X				X		
52311	5501685831	LVW4.2-1-1.8-20210805	550-168583-23	08/05/21	Stage 2A	Water							X	X				X		
52311	5501685831	LVW4.2-2-2.4-20210805	550-168583-24	08/05/21	Stage 2A	Water							X	X				X		
52311	5501685831	LVW4.2-3-3.2-20210805	550-168583-25	08/05/21	Stage 2A	Water							X	X				X		
52311	5501685831	LVW4.2-4-1.7-20210805	550-168583-26	08/05/21	Stage 2A	Water							X	X				X		
52311	5501685831	LVW3.5-1-1.5-20210805	550-168583-27	08/05/21	Stage 2A	Water							X	X				X		
52311	5501685831	LVW3.5-2-1.0-20210805	550-168583-28	08/05/21	Stage 2A	Water							X	X				X		
52311	5501685831	LVW3.5-3-1.7-20210805	550-168583-29	08/05/21	Stage 2A	Water							X	X				X		
52311	5501685831	LVW3.5-4-1.6-20210805	550-168583-30	08/05/21	Stage 2A	Water							X	X				X		
52311	5501685831	LVW3.5-5-2.0-20210805	550-168583-31	08/05/21	Stage 2A	Water							X	X				X		
52311	5501685831	LVW3.5-6-1.8-20210805	550-168583-32	08/05/21	Stage 2A	Water							X	X				X		
52311	5501685831	LVW0.55-0.9-20210805	550-168583-33	08/05/21	Stage 2A	Water	FD10						X	X				X		
52311	5501685831	LVW0.55-0.9-20210805-FD	550-168583-34	08/05/21	Stage 2A	Water	FD10						X	X				X		
52311	5501685831	LVW0.55-20210805-FB	550-168583-35	08/05/21	Stage 2A	Water	FB						X	X				X		
52311	5501686681	I-AA-20210809	550-168668-1	08/09/21	Stage 2A	Water		X		X	X		X	X				X		
52311	5501686681	I-B-20210809	550-168668-2	08/09/21	Stage 2A	Water		X		X	X		X	X				X		
52311	5501686681	I-R-20210809	550-168668-3	08/09/21	Stage 2A	Water		X		X	X		X	X				X		
52311	5501686681	I-Y-20210809	550-168668-4	08/09/21	Stage 2A	Water	FD11	X		X	X		X	X				X		

Table I. Sample Cross-Reference

LDC	SDG	Client Sample ID	Lab ID	Sample Date	Validation Level	Matrix	QC Type	Chromium (200.7)	Metals (200.7)	CrVI (218.6)	Anions (300.0)	TIN (Calc)	Chlorate (300.1)	Perchlorate (314.0)	Ammonia as N (350.1)	Phenolics (420.4)	Conductivity (2510B)	TDS (2540C)	TOC (SM5310B)	TOX (SW9020)
52311	5501686681	I-L-20210809	550-168668-5	08/09/21	Stage 2A	Water		X		X	X		X	X				X		
52311	5501686681	I-S-20210809	550-168668-6	08/09/21	Stage 2A	Water		X		X	X		X	X				X		
52311	5501686681	I-AR-20210809	550-168668-7	08/09/21	Stage 2A	Water		X		X	X		X	X				X		
52311	5501686681	I-Y-20210809-FD	550-168668-8	08/09/21	Stage 2A	Water	FD11	X		X	X		X	X				X		
52311	5501686691	I-Q-20210809	550-168669-1	08/09/21	Stage 2A	Water		X		X	X		X	X				X		
52311	5501686691	I-G-20210809	550-168669-2	08/09/21	Stage 2A	Water		X		X	X		X	X				X		
52311	5501686691	I-T-20210809	550-168669-3	08/09/21	Stage 2A	Water		X		X	X		X	X				X		
52311	5501686691	I-U-20210809	550-168669-4	08/09/21	Stage 2A	Water		X		X	X		X	X				X		
52311	5501686691	I-H-20210809	550-168669-5	08/09/21	Stage 2A	Water		X		X	X		X	X				X		
52311	5501686691	I-P-20210809	550-168669-6	08/09/21	Stage 2A	Water		X		X	X		X	X				X		
52311	5501686691	I-W-20210809	550-168669-7	08/09/21	Stage 2A	Water		X		X	X		X	X				X		
52311	5501686691	I-O-20210809	550-168669-8	08/09/21	Stage 2A	Water		X		X	X		X	X				X		
52311	5501688511	E1-1-20210811	550-168851-1	08/11/21	Stage 2A	Water		X		X	X		X	X				X		
52311	5501688511	E1-2-20210811	550-168851-2	08/11/21	Stage 2A	Water		X		X	X		X	X				X		
52311	5501688511	E1-3-20210811	550-168851-3	08/11/21	Stage 2A	Water		X		X	X		X	X				X		
52311	5501688511	E2-1-20210811	550-168851-4	08/11/21	Stage 2A	Water	FD12	X		X	X		X	X				X		
52311	5501688511	E2-2-20210811	550-168851-5	08/11/21	Stage 2A	Water		X		X	X		X	X				X		
52311	5501688511	E2-3-20210811	550-168851-6	08/11/21	Stage 2A	Water		X		X	X		X	X				X		
52311	5501688511	E2-4-20210811	550-168851-7	08/11/21	Stage 2A	Water		X		X	X		X	X				X		
52311	5501688511	E2-5-20210811	550-168851-8	08/11/21	Stage 2A	Water		X		X	X		X	X				X		
52311	5501688511	E2-1-20210811-FD	550-168851-9	08/11/21	Stage 2A	Water	FD12	X		X	X		X	X				X		
52311	5501688511	E2-2-20210811-EB	550-168851-10	08/11/21	Stage 2A	Water	EB	X		X	X		X	X				X		
52311	5501688521	I-AC-20210811	550-168852-1	08/11/21	Stage 2A	Water		X		X	X		X	X				X		
52311	5501688521	I-AD-20210811	550-168852-2	08/11/21	Stage 2A	Water		X		X	X		X	X				X		
52311	5501688521	I-K-20210811	550-168852-3	08/11/21	Stage 2A	Water		X		X	X		X	X				X		
52311	5501688521	I-J-20210811	550-168852-4	08/11/21	Stage 2A	Water		X		X	X		X	X				X		
52311	5501688521	I-Z-20210811	550-168852-5	08/11/21	Stage 2A	Water		X		X	X		X	X				X		
52311	5501688521	I-I-20210811	550-168852-6	08/11/21	Stage 2A	Water		X		X	X		X	X				X		
52311	5501688521	I-V-20210811	550-168852-7	08/11/21	Stage 2A	Water		X		X	X		X	X				X		
52311	5501688521	I-Z-20210811-EB	550-168852-8	08/11/21	Stage 2A	Water	EB	X		X	X		X	X				X		
52311	5501689551	PC-99R2/R3-20210812	550-168955-1	08/12/21	Stage 2A	Water		X		X	X		X	X				X		
52311	5501689551	PC-115R-20210812	550-168955-2	08/12/21	Stage 2A	Water		X		X	X		X	X				X		
52311	5501689551	PC-116R-20210812	550-168955-3	08/12/21	Stage 2A	Water		X		X	X		X	X				X		
52311	5501689551	PC-117-20210812	550-168955-4	08/12/21	Stage 2A	Water		X		X	X		X	X				X		
52311	5501689551	PC-118-20210812	550-168955-5	08/12/21	Stage 2A	Water		X		X	X		X	X				X		
52311	5501689551	PC-119-20210812	550-168955-6	08/12/21	Stage 2A	Water		X		X	X		X	X				X		

Table I. Sample Cross-Reference

LDC	SDG	Client Sample ID	Lab ID	Sample Date	Validation Level	Matrix	QC Type	Chromium (200.7)	Metals (200.7)	CrVI (218.6)	Anions (300.0)	TIN (Calc)	Chlorate (300.1)	Perchlorate (314.0)	Ammonia as N (350.1)	Phenolics (420.4)	Conductivity (2510B)	TDS (2540C)	TOC (SM5310B)	TOX (SW9020)
52311	5501689551	PC-120-20210812	550-168955-7	08/12/21	Stage 2A	Water		X		X	X		X	X				X		
52311	5501689551	PC-121-20210812	550-168955-8	08/12/21	Stage 2A	Water	FD13	X		X	X		X	X				X		
52311	5501689551	PC-133-20210812-EB	550-168955-9	08/12/21	Stage 2A	Water	EB	X		X	X		X	X				X		
52311	5501689551	PC-121-20210812-FD	550-168955-10	08/12/21	Stage 2A	Water	FD13	X		X	X		X	X				X		
52311	5501689551	PC-133-20210812	550-168955-11	08/12/21	Stage 2A	Water		X		X	X		X	X				X		
52311	5501689581	ART-1A-20210812	550-168958-1	08/12/21	Stage 2A	Water		X		X	X		X	X				X		
52311	5501689581	ART-2/2A-20210812	550-168958-2	08/12/21	Stage 2A	Water		X		X	X		X	X				X		
52311	5501689581	ART-3A-20210812	550-168958-3	08/12/21	Stage 2A	Water		X		X	X		X	X				X		
52311	5501689581	ART-4-20210812	550-168958-4	08/12/21	Stage 2A	Water		X		X	X		X	X				X		
52311	5501689581	ART-7B-20210812	550-168958-5	08/12/21	Stage 2A	Water		X		X	X		X	X				X		
52311	5501689581	ART-8A-20210812	550-168958-6	08/12/21	Stage 2A	Water		X		X	X		X	X				X		
52311	5501689581	ART-9-20210812	550-168958-7	08/12/21	Stage 2A	Water		X		X	X		X	X				X		
52311	5501689581	PC-150-20210812	550-168958-8	08/12/21	Stage 2A	Water	FD14	X		X	X		X	X				X		
52311	5501689581	PC-150-20210812-FD	550-168958-9	08/12/21	Stage 2A	Water	FD14	X		X	X		X	X				X		
52311	5501689581	ART-1A-20210812-EB	550-168958-10	08/12/21	Stage 2A	Water	EB	X		X	X		X	X				X		
52311	5501690621	I-AB-20210816	550-169062-1	08/16/21	Stage 2A	Water		X		X	X		X	X				X		
52311	5501691571	M-44-20210817	550-169157-1	08/17/21	Stage 2A	Water		X		X				X				X		
52311	5501691571	M-95-20210817	550-169157-2	08/17/21	Stage 2A	Water	FD15	X		X				X				X		
52311	5501691571	M-95-20210817-FD4	550-169157-3	08/17/21	Stage 2A	Water	FD15	X		X				X				X		
52311	5501691581	H-28A-20210817	550-169158-1	08/17/21	Stage 2A	Water			X		X			X		X	X	X	X	X
52311	5501692521	M-37-20210818	550-169252-1	08/18/21	Stage 2A	Water		X		X				X				X		
52311	5501692531	M-6A-20210818	550-169253-1	08/18/21	Stage 2A	Water			X		X			X		X	X	X	X	X
52311	5501692531	M-7B-20210818	550-169253-2	08/18/21	Stage 2A	Water			X		X			X		X	X	X	X	X
52311	5501692531	M-5A-20210818	550-169253-3	08/18/21	Stage 2A	Water			X		X			X		X	X	X	X	X
52311	5501693521	M-12A-20210819	550-169352-1	08/19/21	Stage 2A	Water		X		X				X				X		
52311	5501693521	M-12A-20210819-FB4	550-169352-2	08/19/21	Stage 2A	Water	FD	X		X				X				X		
52311	5501693521	M-10-20210819	550-169352-3	08/19/21	Stage 2A	Water			X	X	X	X		X	X			X		
52311	5501693521	M-38-20210819	550-169352-4	08/19/21	Stage 2A	Water		X		X				X				X		
52311	5501693521	M-80-20210819	550-169352-5	08/19/21	Stage 2A	Water		X		X				X				X		
52311	5501693521	M-11-20210819	550-169352-6	08/19/21	Stage 2A	Water		X		X				X				X		
52311	5501693521	M-11-20210819-EB4	550-169352-7	08/19/21	Stage 2A	Water	EB	X		X				X				X		
52950	5501701041	LVW8.85-1.1-20210902	550-170104-1	09/02/21	Stage 2A	Water							X	X				X		
52950	5501701041	LVW7.2-1.1-20210902	550-170104-2	09/02/21	Stage 2A	Water	FD16						X	X				X		
52950	5501701041	LVW7.2-1.1-20210902-FD	550-170104-3	09/02/21	Stage 2A	Water	FD16						X	X				X		
52950	5501701041	LVW6.6-1-1.5-20210902	550-170104-4	09/02/21	Stage 2A	Water							X	X				X		
52950	5501701041	LVW6.6-2-3.3-20210902	550-170104-5	09/02/21	Stage 2A	Water							X	X				X		

Table I. Sample Cross-Reference

LDC	SDG	Client Sample ID	Lab ID	Sample Date	Validation Level	Matrix	QC Type	Chromium (200.7)	Metals (200.7)	CrVI (218.6)	Anions (300.0)	TIN (Calc)	Chlorate (300.1)	Perchlorate (314.0)	Ammonia as N (350.1)	Phenolics (420.4)	Conductivity (2510B)	TDS (2540C)	TOC (SM5310B)	TOX (SW9020)
52950	5501701041	LVW6.6-3-2.4-20210902	550-170104-6	09/02/21	Stage 2A	Water							X	X				X		
52950	5501701041	LVW6.05-1.2-20210902	550-170104-7	09/02/21	Stage 2A	Water	FD17						X	X				X		
52950	5501701041	LVW6.05-1.2-20210902-FD	550-170104-8	09/02/21	Stage 2A	Water	FD17						X	X				X		
52950	5501701041	LVW6.05-20210902-FB	550-170104-9	09/02/21	Stage 2A	Water	FB						X	X				X		
52950	5501701041	C1-E-0.0-20210902	550-170104-10	09/02/21	Stage 2A	Water							X	X				X		
52950	5501701041	C1-W-0.0-20210902	550-170104-11	09/02/21	Stage 2A	Water							X	X				X		
52950	5501701041	LVW5.3-1-0.6-20210902	550-170104-12	09/02/21	Stage 2A	Water							X	X				X		
52950	5501701041	LVW5.3-2-1.0-20210902	550-170104-13	09/02/21	Stage 2A	Water							X	X				X		
52950	5501701041	LVW5.3-3-0.5-20210902	550-170104-14	09/02/21	Stage 2A	Water							X	X				X		
52950	5501701041	LVW5.3-4-0.7-20210902	550-170104-15	09/02/21	Stage 2A	Water							X	X				X		
52950	5501701041	LVW5.3-5-0.9-20210902	550-170104-16	09/02/21	Stage 2A	Water							X	X				X		
52950	5501701041	LVW5.3-6-0.5-20210902	550-170104-17	09/02/21	Stage 2A	Water							X	X				X		
52950	5501701041	LVW4.75-1-1.3-20210902	550-170104-18	09/02/21	Stage 2A	Water							X	X				X		
52950	5501701041	LVW4.75-2-1.3-20210902	550-170104-19	09/02/21	Stage 2A	Water							X	X				X		
52950	5501701041	LVW4.75-3-1.1-20210902	550-170104-20	09/02/21	Stage 2A	Water							X	X				X		
52950	5501701041	LVW4.75-4-1.3-20210902	550-170104-21	09/02/21	Stage 2A	Water							X	X				X		
52950	5501701041	LVW4.75-5-1.2-20210902	550-170104-22	09/02/21	Stage 2A	Water							X	X				X		
52950	5501701041	LVW4.2-1-2.9-20210902	550-170104-23	09/02/21	Stage 2A	Water							X	X				X		
52950	5501701041	LVW4.2-2-1.8-20210902	550-170104-24	09/02/21	Stage 2A	Water							X	X				X		
52950	5501701041	LVW4.2-3-3.2-20210902	550-170104-25	09/02/21	Stage 2A	Water							X	X				X		
52950	5501701041	LVW4.2-4-1.3-20210902	550-170104-26	09/02/21	Stage 2A	Water							X	X				X		
52950	5501701041	LVW3.5-1-0.9-20210902	550-170104-27	09/02/21	Stage 2A	Water							X	X				X		
52950	5501701041	LVW3.5-2-1.3-20210902	550-170104-28	09/02/21	Stage 2A	Water							X	X				X		
52950	5501701041	LVW3.5-3-1.6-20210902	550-170104-29	09/02/21	Stage 2A	Water							X	X				X		
52950	5501701041	LVW3.5-4-1.3-20210902	550-170104-30	09/02/21	Stage 2A	Water							X	X				X		
52950	5501701041	LVW3.5-5-1.8-20210902	550-170104-31	09/02/21	Stage 2A	Water							X	X				X		
52950	5501701041	LVW3.5-6-1.7-20210902	550-170104-32	09/02/21	Stage 2A	Water							X	X				X		
52950	5501701041	LVW0.55-1.2-20210902	550-170104-33	09/02/21	Stage 2A	Water	FD18						X	X				X		
52950	5501701041	LVW0.55-1.2-20210902-FD	550-170104-34	09/02/21	Stage 2A	Water	FD18						X	X				X		
52950	5501701041	LVW0.55-20210902-FB	550-170104-35	09/02/21	Stage 2A	Water	FB						X	X				X		
52950	5501702821	I-C-20210908	550-170282-1	09/08/21	Stage 2A	Water		X		X	X		X	X				X		
52950	5501702821	I-F-20210908	550-170282-2	09/08/21	Stage 2A	Water		X		X	X		X	X				X		
52950	5501702821	I-X-20210908	550-170282-3	09/08/21	Stage 2A	Water		X		X	X		X	X				X		
52950	5501702821	I-N-20210908	550-170282-4	09/08/21	Stage 2A	Water		X		X	X		X	X				X		
52950	5501702821	I-E-20210908	550-170282-5	09/08/21	Stage 2A	Water		X		X	X		X	X				X		
52950	5501702821	I-M-20210908	550-170282-6	09/08/21	Stage 2A	Water		X		X	X		X	X				X		

Table I. Sample Cross-Reference

LDC	SDG	Client Sample ID	Lab ID	Sample Date	Validation Level	Matrix	QC Type	Chromium (200.7)	Metals (200.7)	CrVI (218.6)	Anions (300.0)	TIN (Calc)	Chlorate (300.1)	Perchlorate (314.0)	Ammonia as N (350.1)	Phenolics (420.4)	Conductivity (2510B)	TDS (2540C)	TOC (SM5310B)	TOX (SW9020)
52950	5501702821	I-D-20210908	550-170282-7	09/08/21	Stage 2A	Water		X		X	X		X	X				X		
52950	5501702831	I-AA-20210908	550-170283-1	09/08/21	Stage 2A	Water	FD19	X		X	X		X	X				X		
52950	5501702831	I-AB-20210908	550-170283-2	09/08/21	Stage 2A	Water		X		X	X		X	X				X		
52950	5501702831	I-B-20210908	550-170283-3	09/08/21	Stage 2A	Water		X		X	X		X	X				X		
52950	5501702831	I-R-20210908	550-170283-4	09/08/21	Stage 2A	Water		X		X	X		X	X				X		
52950	5501702831	I-Y-20210908	550-170283-5	09/08/21	Stage 2A	Water		X		X	X		X	X				X		
52950	5501702831	I-L-20210908	550-170283-6	09/08/21	Stage 2A	Water		X		X	X		X	X				X		
52950	5501702831	I-S-20210908	550-170283-7	09/08/21	Stage 2A	Water		X		X	X		X	X				X		
52950	5501702831	I-AR-20210908	550-170283-8	09/08/21	Stage 2A	Water		X		X	X		X	X				X		
52950	5501702831	I-AA-20210908-FD	550-170283-9	09/08/21	Stage 2A	Water	FD19	X		X	X		X	X				X		
52950	5501702831	I-AB-20210908-EB	550-170283-10	09/08/21	Stage 2A	Water	EB	X		X	X		X	X				X		
52950	5501703881	I-Q-20210909	550-170388-1	09/09/21	Stage 2A	Water		X		X	X		X	X				X		
52950	5501703881	I-G-20210909	550-170388-2	09/09/21	Stage 2A	Water		X		X	X		X	X				X		
52950	5501703881	I-T-20210909	550-170388-3	09/09/21	Stage 2A	Water		X		X	X		X	X				X		
52950	5501703881	I-U-20210909	550-170388-4	09/09/21	Stage 2A	Water		X		X	X		X	X				X		
52950	5501703881	I-H-20210909	550-170388-5	09/09/21	Stage 2A	Water		X		X	X		X	X				X		
52950	5501703881	I-P-20210909	550-170388-6	09/09/21	Stage 2A	Water		X		X	X		X	X				X		
52950	5501703881	I-W-20210909	550-170388-7	09/09/21	Stage 2A	Water		X		X	X		X	X				X		
52950	5501703881	I-O-20210909	550-170388-8	09/09/21	Stage 2A	Water		X		X	X		X	X				X		
52950	5501705351	E1-1-20210913	550-170535-1	09/13/21	Stage 2A	Water		X		X	X		X	X				X		
52950	5501705351	E1-2-20210913	550-170535-2	09/13/21	Stage 2A	Water		X		X	X		X	X				X		
52950	5501705351	E1-3-20210913	550-170535-3	09/13/21	Stage 2A	Water		X		X	X		X	X				X		
52950	5501705351	E2-1-20210913	550-170535-4	09/13/21	Stage 2A	Water		X		X	X		X	X				X		
52950	5501705351	E2-2-20210913	550-170535-5	09/13/21	Stage 2A	Water		X		X	X		X	X				X		
52950	5501705351	E2-3-20210913	550-170535-6	09/13/21	Stage 2A	Water	FD20	X		X	X		X	X				X		
52950	5501705351	E2-4-20210913	550-170535-7	09/13/21	Stage 2A	Water		X		X	X		X	X				X		
52950	5501705351	E2-5-20210913	550-170535-8	09/13/21	Stage 2A	Water		X		X	X		X	X				X		
52950	5501705351	E2-3-20210913-FD	550-170535-9	09/13/21	Stage 2A	Water	FD20	X		X	X		X	X				X		
52950	5501705351	E2-4-20210913-EB	550-170535-10	09/13/21	Stage 2A	Water	EB	X		X	X		X	X				X		
52950	5501706341	I-AC-20210914	550-170634-1	09/14/21	Stage 2A	Water		X		X	X		X	X				X		
52950	5501706341	I-AD-20210914	550-170634-2	09/14/21	Stage 2A	Water		X		X	X		X	X				X		
52950	5501706341	I-K-20210914	550-170634-3	09/14/21	Stage 2A	Water		X		X	X		X	X				X		
52950	5501706341	I-J-20210914	550-170634-4	09/14/21	Stage 2A	Water		X		X	X		X	X				X		
52950	5501706341	I-Z-20210914	550-170634-5	09/14/21	Stage 2A	Water		X		X	X		X	X				X		
52950	5501706341	I-I-20210914	550-170634-6	09/14/21	Stage 2A	Water		X		X	X		X	X				X		
52950	5501706341	I-V-20210914	550-170634-7	09/14/21	Stage 2A	Water		X		X	X		X	X				X		

Table I. Sample Cross-Reference

LDC	SDG	Client Sample ID	Lab ID	Sample Date	Validation Level	Matrix	QC Type	Chromium (200.7)	Metals (200.7)	CrVI (218.6)	Anions (300.0)	TIN (Calc)	Chlorate (300.1)	Perchlorate (314.0)	Ammonia as N (350.1)	Phenolics (420.4)	Conductivity (2510B)	TDS (2540C)	TOC (SM5310B)	TOX (SW9020)
52950	5501707291	ART-1A-20210915	550-170729-1	09/15/21	Stage 2A	Water		X		X	X		X	X				X		
52950	5501707291	ART-2/2A-20210915	550-170729-2	09/15/21	Stage 2A	Water	FD21	X		X	X		X	X				X		
52950	5501707291	ART-3A-20210915	550-170729-3	09/15/21	Stage 2A	Water		X		X	X		X	X				X		
52950	5501707291	ART-4-20210915	550-170729-4	09/15/21	Stage 2A	Water		X		X	X		X	X				X		
52950	5501707291	ART-7B-20210915	550-170729-5	09/15/21	Stage 2A	Water		X		X	X		X	X				X		
52950	5501707291	ART-8A-20210915	550-170729-6	09/15/21	Stage 2A	Water		X		X	X		X	X				X		
52950	5501707291	ART-9-20210915	550-170729-7	09/15/21	Stage 2A	Water		X		X	X		X	X				X		
52950	5501707291	PC-150-20210915	550-170729-8	09/15/21	Stage 2A	Water		X		X	X		X	X				X		
52950	5501707291	ART-2/2A-20210915-FD	550-170729-9	09/15/21	Stage 2A	Water	FD21	X		X	X		X	X				X		
52950	5501707291	ART-3A-20210915-EB	550-170729-10	09/15/21	Stage 2A	Water	EB	X		X	X		X	X				X		
52950	5501707301	PC-99R2/R3-20210915	550-170730-1	09/15/21	Stage 2A	Water	FD22	X		X	X		X	X				X		
52950	5501707301	PC-115R-20210915	550-170730-2	09/15/21	Stage 2A	Water		X		X	X		X	X				X		
52950	5501707301	PC-116R-20210915	550-170730-3	09/15/21	Stage 2A	Water		X		X	X		X	X				X		
52950	5501707301	PC-117-20210915	550-170730-4	09/15/21	Stage 2A	Water		X		X	X		X	X				X		
52950	5501707301	PC-118-20210915	550-170730-5	09/15/21	Stage 2A	Water		X		X	X		X	X				X		
52950	5501707301	PC-119-20210915	550-170730-6	09/15/21	Stage 2A	Water		X		X	X		X	X				X		
52950	5501707301	PC-120-20210915	550-170730-7	09/15/21	Stage 2A	Water		X		X	X		X	X				X		
52950	5501707301	PC-121-20210915	550-170730-8	09/15/21	Stage 2A	Water		X		X	X		X	X				X		
52950	5501707301	PC-133-20210915	550-170730-9	09/15/21	Stage 2A	Water		X		X	X		X	X				X		
52950	5501707301	PC-99R2/R3-20210915-FD	550-170730-10	09/15/21	Stage 2A	Water	FD22	X		X	X		X	X				X		
52950	5501707301	PC-115R-20210915-EB	550-170730-11	09/15/21	Stage 2A	Water	EB	X		X	X		X	X				X		
52949	5501718781	E1-1-20211006	550-171878-1	10/06/21	Stage 2A	Water		X		X	X		X	X				X		
52949	5501718781	E1-2-20211006	550-171878-2	10/06/21	Stage 2A	Water		X		X	X		X	X				X		
52949	5501718781	E1-3-20211006	550-171878-3	10/06/21	Stage 2A	Water		X		X	X		X	X				X		
52949	5501718781	E2-1-20211006	550-171878-4	10/06/21	Stage 2A	Water		X		X	X		X	X				X		
52949	5501718781	E2-2-20211006	550-171878-5	10/06/21	Stage 2A	Water		X		X	X		X	X				X		
52949	5501718781	E2-3-20211006	550-171878-6	10/06/21	Stage 2A	Water		X		X	X		X	X				X		
52949	5501718781	E2-4-20211006	550-171878-7	10/06/21	Stage 2A	Water		X		X	X		X	X				X		
52949	5501718781	E2-5-20211006	550-171878-8	10/06/21	Stage 2A	Water	FD23	X		X	X		X	X				X		
52949	5501718781	E2-5-20211006-FD	550-171878-9	10/06/21	Stage 2A	Water	FD23	X		X	X		X	X				X		
52949	5501718781	E1-1-20211006-EB	550-171878-10	10/06/21	Stage 2A	Water	EB	X		X	X		X	X				X		
52949	5501722551	LVW8.85-1.0-20211012	550-172255-1	10/12/21	Stage 2A	Water							X	X				X		
52949	5501722551	LVW7.2-0.9-20211012	550-172255-2	10/12/21	Stage 2A	Water	FD24						X	X				X		
52949	5501722551	LVW7.2-0.9-20211012-FD	550-172255-3	10/12/21	Stage 2A	Water	FD24						X	X				X		
52949	5501722551	LVW6.6-1-1.5-20211012	550-172255-4	10/12/21	Stage 2A	Water							X	X				X		
52949	5501722551	LVW6.6-2-3.6-20211012	550-172255-5	10/12/21	Stage 2A	Water							X	X				X		

Table I. Sample Cross-Reference

LDC	SDG	Client Sample ID	Lab ID	Sample Date	Validation Level	Matrix	QC Type	Chromium (200.7)	Metals (200.7)	CrVI (218.6)	Anions (300.0)	TIN (Calc)	Chlorate (300.1)	Perchlorate (314.0)	Ammonia as N (350.1)	Phenolics (420.4)	Conductivity (2510B)	TDS (2540C)	TOC (SM5310B)	TOX (SW9020)
52949	5501722551	LVW6.6-3-2.0-20211012	550-172255-6	10/12/21	Stage 2A	Water							X	X				X		
52949	5501722551	LVW6.05-0.9-20211011	550-172255-7	10/11/21	Stage 2A	Water	FD25						X	X				X		
52949	5501722551	LVW6.05-0.9-20211011-FD	550-172255-8	10/11/21	Stage 2A	Water	FD25						X	X				X		
52949	5501722551	LVW6.05-20211011-FB	550-172255-9	10/11/21	Stage 2A	Water	FB						X	X				X		
52949	5501722551	C1-E-0.0-20211011	550-172255-10	10/11/21	Stage 2A	Water							X	X				X		
52949	5501722551	C1-W-0.0-20211011	550-172255-11	10/11/21	Stage 2A	Water							X	X				X		
52949	5501722551	LVW5.3-1-2.6-20211011	550-172255-12	10/11/21	Stage 2A	Water							X	X				X		
52949	5501722551	LVW5.3-2-0.9-20211011	550-172255-13	10/11/21	Stage 2A	Water							X	X				X		
52949	5501722551	LVW5.3-3-1.2-20211011	550-172255-14	10/11/21	Stage 2A	Water							X	X				X		
52949	5501722551	LVW5.3-4-0.7-20211011	550-172255-15	10/11/21	Stage 2A	Water							X	X				X		
52949	5501722551	LVW5.3-5-0.9-20211011	550-172255-16	10/11/21	Stage 2A	Water							X	X				X		
52949	5501722551	LVW5.3-6-0.6-20211011	550-172255-17	10/11/21	Stage 2A	Water							X	X				X		
52949	5501722551	LVW4.75-1-1.1-20211011	550-172255-18	10/11/21	Stage 2A	Water							X	X				X		
52949	5501722551	LVW4.75-2-1.5-20211011	550-172255-19	10/11/21	Stage 2A	Water							X	X				X		
52949	5501722551	LVW4.75-3-1.1-20211011	550-172255-20	10/11/21	Stage 2A	Water							X	X				X		
52949	5501722551	LVW4.75-4-1.3-20211011	550-172255-21	10/11/21	Stage 2A	Water							X	X				X		
52949	5501722551	LVW4.75-5-1.0-20211011	550-172255-22	10/11/21	Stage 2A	Water							X	X				X		
52949	5501722551	LVW4.2-1-2.5-20211011	550-172255-23	10/11/21	Stage 2A	Water							X	X				X		
52949	5501722551	LVW4.2-2-2.3-20211011	550-172255-24	10/11/21	Stage 2A	Water							X	X				X		
52949	5501722551	LVW4.2-3-3.3-20211011	550-172255-25	10/11/21	Stage 2A	Water							X	X				X		
52949	5501722551	LVW4.2-4-1.5-20211011	550-172255-26	10/11/21	Stage 2A	Water							X	X				X		
52949	5501722551	LVW3.5-1-1.3-20211011	550-172255-27	10/11/21	Stage 2A	Water							X	X				X		
52949	5501722551	LVW3.5-2-1.0-20211011	550-172255-28	10/11/21	Stage 2A	Water							X	X				X		
52949	5501722551	LVW3.5-3-1.3-20211011	550-172255-29	10/11/21	Stage 2A	Water							X	X				X		
52949	5501722551	LVW3.5-4-1.7-20211011	550-172255-30	10/11/21	Stage 2A	Water							X	X				X		
52949	5501722551	LVW3.5-5-1.7-20211011	550-172255-31	10/11/21	Stage 2A	Water							X	X				X		
52949	5501722551	LVW3.5-6-1.8-20211011	550-172255-32	10/11/21	Stage 2A	Water							X	X				X		
52949	5501722551	LVW0.55-1.0-20211011	550-172255-33	10/11/21	Stage 2A	Water	FD26						X	X				X		
52949	5501722551	LVW0.55-1.0-20211011-FD	550-172255-34	10/11/21	Stage 2A	Water	FD26						X	X				X		
52949	5501722551	LVW0.55-20211011-FB	550-172255-35	10/11/21	Stage 2A	Water	FB						X	X				X		
52949	5501722561	I-C-20211012	550-172256-1	10/12/21	Stage 2A	Water		X		X	X		X	X				X		
52949	5501722561	I-F-20211012	550-172256-2	10/12/21	Stage 2A	Water		X		X	X		X	X				X		
52949	5501722561	I-X-20211012	550-172256-3	10/12/21	Stage 2A	Water		X		X	X		X	X				X		
52949	5501722561	I-N-20211012	550-172256-4	10/12/21	Stage 2A	Water		X		X	X		X	X				X		
52949	5501722561	I-E-20211012	550-172256-5	10/12/21	Stage 2A	Water		X		X	X		X	X				X		
52949	5501722561	I-M-20211012	550-172256-6	10/12/21	Stage 2A	Water		X		X	X		X	X				X		

Table I. Sample Cross-Reference

LDC	SDG	Client Sample ID	Lab ID	Sample Date	Validation Level	Matrix	QC Type	Chromium (200.7)	Metals (200.7)	CrVI (218.6)	Anions (300.0)	TIN (Calc)	Chlorate (300.1)	Perchlorate (314.0)	Ammonia as N (350.1)	Phenolics (420.4)	Conductivity (2510B)	TDS (2540C)	TOC (SM5310B)	TOX (SW9020)
52949	5501722561	I-D-20211012	550-172256-7	10/12/21	Stage 2A	Water		X		X	X		X	X				X		
52949	5501722611	I-AA-20211012	550-172261-1	10/12/21	Stage 2A	Water		X		X	X		X	X				X		
52949	5501722611	I-AB-20211012	550-172261-2	10/12/21	Stage 2A	Water		X		X	X		X	X				X		
52949	5501722611	I-B-20211012	550-172261-3	10/12/21	Stage 2A	Water		X		X	X		X	X				X		
52949	5501722611	I-R-20211012	550-172261-4	10/12/21	Stage 2A	Water		X		X	X		X	X				X		
52949	5501722611	I-Y-20211012	550-172261-5	10/12/21	Stage 2A	Water		X		X	X		X	X				X		
52949	5501722611	I-L-20211012	550-172261-6	10/12/21	Stage 2A	Water		X		X	X		X	X				X		
52949	5501722611	I-S-20211012	550-172261-7	10/12/21	Stage 2A	Water		X		X	X		X	X				X		
52949	5501722611	I-AR-20211012	550-172261-8	10/12/21	Stage 2A	Water		X		X	X		X	X				X		
52949	5501723531	I-AC-20211013	550-172353-1	10/13/21	Stage 2A	Water	FD27	X		X	X		X	X				X		
52949	5501723531	I-AD-20211013	550-172353-2	10/13/21	Stage 2A	Water		X		X	X		X	X				X		
52949	5501723531	I-K-20211013	550-172353-3	10/13/21	Stage 2A	Water		X		X	X		X	X				X		
52949	5501723531	I-J-20211013	550-172353-4	10/13/21	Stage 2A	Water		X		X	X		X	X				X		
52949	5501723531	I-Z-20211013	550-172353-5	10/13/21	Stage 2A	Water		X		X	X		X	X				X		
52949	5501723531	I-I-20211013	550-172353-6	10/13/21	Stage 2A	Water		X		X	X		X	X				X		
52949	5501723531	I-V-20211013	550-172353-7	10/13/21	Stage 2A	Water		X		X	X		X	X				X		
52949	5501723531	I-AC-20211013-FD	550-172353-8	10/13/21	Stage 2A	Water	FD27	X		X	X		X	X				X		
52949	5501723531	I-AD-20211013-EB	550-172353-9	10/13/21	Stage 2A	Water	EB	X		X	X		X	X				X		
52949	5501723551	I-Q-20211013	550-172355-1	10/13/21	Stage 2A	Water		X		X	X		X	X				X		
52949	5501723551	I-G-20211013	550-172355-2	10/13/21	Stage 2A	Water		X		X	X		X	X				X		
52949	5501723551	I-T-20211013	550-172355-3	10/13/21	Stage 2A	Water		X		X	X		X	X				X		
52949	5501723551	I-U-20211013	550-172355-4	10/13/21	Stage 2A	Water		X		X	X		X	X				X		
52949	5501723551	I-H-20211013	550-172355-5	10/13/21	Stage 2A	Water		X		X	X		X	X				X		
52949	5501723551	I-P-20211013	550-172355-6	10/13/21	Stage 2A	Water		X		X	X		X	X				X		
52949	5501723551	I-W-20211013	550-172355-7	10/13/21	Stage 2A	Water		X		X	X		X	X				X		
52949	5501723551	I-O-20211013	550-172355-8	10/13/21	Stage 2A	Water		X		X	X		X	X				X		
52949	5501724601	PC-99R2/R3-20211014	550-172460-1	10/14/21	Stage 2A	Water		X		X	X		X	X				X		
52949	5501724601	PC-115R-20211014	550-172460-2	10/14/21	Stage 2A	Water		X		X	X		X	X				X		
52949	5501724601	PC-116R-20211014	550-172460-3	10/14/21	Stage 2A	Water	FD27	X		X	X		X	X				X		
52949	5501724601	PC-117-20211014	550-172460-4	10/14/21	Stage 2A	Water		X		X	X		X	X				X		
52949	5501724601	PC-118-20211014	550-172460-5	10/14/21	Stage 2A	Water		X		X	X		X	X				X		
52949	5501724601	PC-119-20211014	550-172460-6	10/14/21	Stage 2A	Water		X		X	X		X	X				X		
52949	5501724601	PC-120-20211014	550-172460-7	10/14/21	Stage 2A	Water		X		X	X		X	X				X		
52949	5501724601	PC-121-20211014	550-172460-8	10/14/21	Stage 2A	Water		X		X	X		X	X				X		
52949	5501724601	PC-133-20211014	550-172460-9	10/14/21	Stage 2A	Water		X		X	X		X	X				X		
52949	5501724601	PC-116R-20211014-FD	550-172460-10	10/14/21	Stage 2A	Water	FD27	X		X	X		X	X				X		

Table I. Sample Cross-Reference

LDC	SDG	Client Sample ID	Lab ID	Sample Date	Validation Level	Matrix	QC Type	Chromium (200.7)	Metals (200.7)	CrVI (218.6)	Anions (300.0)	TIN (Calc)	Chlorate (300.1)	Perchlorate (314.0)	Ammonia as N (350.1)	Phenolics (420.4)	Conductivity (2510B)	TDS (2540C)	TOC (SM5310B)	TOX (SW9020)
52949	5501724601	PC-117-20211014-EB	550-172460-11	10/14/21	Stage 2A	Water	EB	X		X	X		X	X				X		
52949	5501724631	ART-1A-20211014	550-172463-1	10/14/21	Stage 2A	Water		X		X	X		X	X				X		
52949	5501724631	ART-2/2A-20211014	550-172463-2	10/14/21	Stage 2A	Water		X		X	X		X	X				X		
52949	5501724631	ART-3A-20211014	550-172463-3	10/14/21	Stage 2A	Water		X		X	X		X	X				X		
52949	5501724631	ART-4-20211014	550-172463-4	10/14/21	Stage 2A	Water	FD28	X		X	X		X	X				X		
52949	5501724631	ART-7B-20211014	550-172463-5	10/14/21	Stage 2A	Water		X		X	X		X	X				X		
52949	5501724631	ART-8A-20211014	550-172463-6	10/14/21	Stage 2A	Water		X		X	X		X	X				X		
52949	5501724631	ART-9-20211014	550-172463-7	10/14/21	Stage 2A	Water		X		X	X		X	X				X		
52949	5501724631	PC-150-20211014	550-172463-8	10/14/21	Stage 2A	Water		X		X	X		X	X				X		
52949	5501724631	ART-4-20211014-FD	550-172463-9	10/14/21	Stage 2A	Water	FD28	X		X	X		X	X				X		
52949	5501724631	ART-7B-20211014-EB	550-172463-10	10/14/21	Stage 2A	Water	EB	X		X	X		X	X				X		
53222	5501734301	PC-157B-20211101	550-173430-1	11/01/21	Stage 2A	Water		X			X		X	X				X		
53222	5501734301	PC-155B-20211101	550-173430-2	11/01/21	Stage 2A	Water	EB	X			X		X	X				X		
53222	5501734301	PC-155B-20211101-EB5	550-173430-3	11/01/21	Stage 2A	Water		X			X		X	X				X		
53222	5501734301	PC-90-20211101	550-173430-4	11/01/21	Stage 2A	Water		X			X		X	X				X		
53222	5501734301	PC-97-20211101	550-173430-5	11/01/21	Stage 2A	Water		X			X		X	X				X		
53222	5501735301	PC-157A-20211102	550-173530-1	11/02/21	Stage 2A	Water		X			X		X	X				X		
53222	5501735301	ART-6-20211102	550-173530-2	11/02/21	Stage 2A	Water		X			X		X	X				X		
53222	5501735301	M-12A-20211102	550-173530-3	11/02/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501735301	M-189-20211102	550-173530-4	11/02/21	Stage 2A	Water		X			X		X	X				X		
53222	5501735301	M-193-20211102	550-173530-5	11/02/21	Stage 2A	Water		X			X		X	X				X		
53222	5501735301	PC-155A-20211102	550-173530-6	11/02/21	Stage 2A	Water		X			X		X	X				X		
53222	5501735301	M-190-20211102	550-173530-7	11/02/21	Stage 2A	Water		X			X		X	X				X		
53222	5501735301	M-191-20211102	550-173530-8	11/02/21	Stage 2A	Water		X			X		X	X				X		
53222	5501735301	M-11-20211102	550-173530-9	11/02/21	Stage 2A	Water	FD29	X		X	X		X	X				X		
53222	5501735301	M-11-20211102-FD4	550-173530-10	11/02/21	Stage 2A	Water	FD29	X		X	X		X	X				X		
53222	5501735301	M-192-20211102	550-173530-11	11/02/21	Stage 2A	Water		X			X		X	X				X		
53222	5501735301	PC-136-20211102	550-173530-12	11/02/21	Stage 2A	Water		X			X		X	X				X		
53222	5501735301	PC-137D-20211102	550-173530-13	11/02/21	Stage 2A	Water		X			X		X	X				X		
53222	5501735301	PC-53-20211102	550-173530-14	11/02/21	Stage 2A	Water		X			X		X	X				X		
53222	5501735301	MW-K5-20211102	550-173530-15	11/02/21	Stage 2A	Water		X			X		X	X				X		
53222	5501735301	ARP-7-20211102	550-173530-16	11/02/21	Stage 2A	Water		X			X		X	X				X		
53222	5501735301	ARP-7-20211102-FB6	550-173530-17	11/02/21	Stage 2A	Water	FB	X			X		X	X				X		
53222	5501735301	ARP-6B-20211102	550-173530-18	11/02/21	Stage 2A	Water		X			X		X	X				X		
53222	5501735301	ARP-5A-20211102	550-173530-19	11/02/21	Stage 2A	Water		X			X		X	X				X		
53222	5501735301	ARP-3A-20211102	550-173530-20	11/02/21	Stage 2A	Water		X			X		X	X				X		

Table I. Sample Cross-Reference

LDC	SDG	Client Sample ID	Lab ID	Sample Date	Validation Level	Matrix	QC Type	Chromium (200.7)	Metals (200.7)	CrVI (218.6)	Anions (300.0)	TIN (Calc)	Chlorate (300.1)	Perchlorate (314.0)	Ammonia as N (350.1)	Phenolics (420.4)	Conductivity (2510B)	TDS (2540C)	TOC (SM5310B)	TOX (SW9020)
53222	5501735301	MW-K4-20211102	550-173530-21	11/02/21	Stage 2A	Water		X			X		X	X				X		
53222	5501735301	PC-158-20211102	550-173530-22	11/02/21	Stage 2A	Water		X			X		X	X				X		
53222	5501735301	PC-91-20211102	550-173530-23	11/02/21	Stage 2A	Water		X			X		X	X				X		
53222	5501735301	PC-91-20211102-FB5	550-173530-24	11/02/21	Stage 2A	Water	FB	X			X		X	X				X		
53222	5501735301	PC-94-20211102	550-173530-25	11/02/21	Stage 2A	Water		X			X		X	X				X		
53222	5501735301	PC-122-20211102	550-173530-26	11/02/21	Stage 2A	Water		X			X		X	X				X		
53222	5501735301	ARP-2A-20211102	550-173530-27	11/02/21	Stage 2A	Water		X			X		X	X				X		
53222	5501735301	PC-122-20211102-EB6	550-173530-28	11/02/21	Stage 2A	Water	EB	X			X		X	X				X		
53222	5501735301	PC-101R-20211102	550-173530-29	11/02/21	Stage 2A	Water		X			X		X	X				X		
53222	5501736181	PC-124-20211103	550-173618-1	11/03/21	Stage 2A	Water		X			X		X	X				X		
53222	5501736181	PC-126-20211103	550-173618-2	11/03/21	Stage 2A	Water		X			X		X	X				X		
53222	5501736181	PC-126-20211103-EB7	550-173618-3	11/03/21	Stage 2A	Water	EB	X			X		X	X				X		
53222	5501736181	PC-127-20211103	550-173618-4	11/03/21	Stage 2A	Water		X			X		X	X				X		
53222	5501736181	PC-18-20211103	550-173618-5	11/03/21	Stage 2A	Water		X			X		X	X				X		
53222	5501736181	PC-55-20211103	550-173618-6	11/03/21	Stage 2A	Water		X			X		X	X				X		
53222	5501736181	PC-130-20211103	550-173618-7	11/03/21	Stage 2A	Water	FD30	X			X		X	X				X		
53222	5501736181	PC-130-20211103-FD6	550-173618-8	11/03/21	Stage 2A	Water	FD30	X			X		X	X				X		
53222	5501736181	PC-152-20211103	550-173618-9	11/03/21	Stage 2A	Water		X			X		X	X				X		
53222	5501736181	M-48A-20211103	550-173618-10	11/03/21	Stage 2A	Water		X			X		X	X				X		
53222	5501736181	M-44-20211103	550-173618-11	11/03/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501736181	PC-132-20211103	550-173618-12	11/03/21	Stage 2A	Water		X			X		X	X				X		
53222	5501736181	PC-153R-20211103	550-173618-13	11/03/21	Stage 2A	Water		X			X		X	X				X		
53222	5501736181	PC-151-20211103	550-173618-14	11/03/21	Stage 2A	Water		X			X		X	X				X		
53222	5501736181	ARP-1-20211103	550-173618-15	11/03/21	Stage 2A	Water	FD31	X			X		X	X				X		
53222	5501736181	ARP-1-20211103-FD7	550-173618-16	11/03/21	Stage 2A	Water	FD31	X			X		X	X				X		
53222	5501736181	PC-154-20211103	550-173618-17	11/03/21	Stage 2A	Water		X			X		X	X				X		
53222	5501736181	PC-159-20211103	550-173618-18	11/03/21	Stage 2A	Water		X			X		X	X				X		
53222	5501736181	M-186D-20211103	550-173618-19	11/03/21	Stage 2A	Water		X			X		X	X				X		
53222	5501736181	M-35-20211103	550-173618-20	11/03/21	Stage 2A	Water		X			X		X	X				X		
53222	5501736181	M-19-20211103	550-173618-21	11/03/21	Stage 2A	Water		X			X		X	X				X		
53222	5501736181	M-68-20211103	550-173618-22	11/03/21	Stage 2A	Water		X			X		X	X				X		
53222	5501736181	M-67-20211103-FB7	550-173618-23	11/03/21	Stage 2A	Water	FB	X			X		X	X				X		
53222	5501736181	M-67-20211103	550-173618-24	11/03/21	Stage 2A	Water		X			X		X	X				X		
53222	5501736181	M-31A-20211103	550-173618-25	11/03/21	Stage 2A	Water		X			X		X	X				X		
53222	5501736181	PC-123-20211103	550-173618-26	11/03/21	Stage 2A	Water		X			X		X	X				X		
53222	5501736181	PC-129-20211103	550-173618-27	11/03/21	Stage 2A	Water		X			X		X	X				X		

Table I. Sample Cross-Reference

LDC	SDG	Client Sample ID	Lab ID	Sample Date	Validation Level	Matrix	QC Type	Chromium (200.7)	Metals (200.7)	CrVI (218.6)	Anions (300.0)	TIN (Calc)	Chlorate (300.1)	Perchlorate (314.0)	Ammonia as N (350.1)	Phenolics (420.4)	Conductivity (2510B)	TDS (2540C)	TOC (SM5310B)	TOX (SW9020)
53222	5501736181	PC-129-20211103-FB8	550-173618-28	11/03/21	Stage 2A	Water	FB	X			X		X	X				X		
53222	5501736181	PC-131-20211103	550-173618-29	11/03/21	Stage 2A	Water		X			X		X	X				X		
53222	5501736181	PC-160-20211103	550-173618-30	11/03/21	Stage 2A	Water		X			X		X	X				X		
53222	5501736181	PC-144-20211103	550-173618-31	11/03/21	Stage 2A	Water		X			X		X	X				X		
53222	5501736181	PC-134D-20211103	550-173618-32	11/03/21	Stage 2A	Water		X			X		X	X				X		
53222	5501736311	E1-1-20211103	550-173631-1	11/03/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501736311	E1-2-20211103	550-173631-2	11/03/21	Stage 2A	Water	FD32	X		X	X		X	X				X		
53222	5501736311	E1-3-20211103	550-173631-3	11/03/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501736311	E2-1-20211103	550-173631-4	11/03/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501736311	E2-2-20211103	550-173631-5	11/03/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501736311	E2-3-20211103	550-173631-6	11/03/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501736311	E2-4-20211103	550-173631-7	11/03/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501736311	E2-5-20211103	550-173631-8	11/03/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501736311	E1-2-20211103-FD	550-173631-9	11/03/21	Stage 2A	Water	FD32	X		X	X		X	X				X		
53222	5501736311	E1-3-20211103-EB	550-173631-10	11/03/21	Stage 2A	Water	EB	X		X	X		X	X				X		
53222	5501737731	M-10-20211104	550-173773-1	11/04/21	Stage 2A	Water			X	X	X	X	X	X	X			X		
53222	5501737731	M-52-20211104	550-173773-2	11/04/21	Stage 2A	Water		X			X		X	X				X		
53222	5501737731	M-73-20211104	550-173773-3	11/04/21	Stage 2A	Water		X			X		X	X				X		
53222	5501737731	M-74-20211104	550-173773-4	11/04/21	Stage 2A	Water		X			X		X	X				X		
53222	5501737731	M-81A-20211104	550-173773-5	11/04/21	Stage 2A	Water		X			X		X	X				X		
53222	5501737731	M-83-20211104	550-173773-6	11/04/21	Stage 2A	Water	FD33	X			X		X	X				X		
53222	5501737731	M-83-20211104-FD8	550-173773-7	11/04/21	Stage 2A	Water	FD33	X			X		X	X				X		
53222	5501737731	M-80-20211104	550-173773-8	11/04/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501737731	M-80-20211104-EB4	550-173773-9	11/04/21	Stage 2A	Water	EB	X		X	X		X	X				X		
53222	5501737731	PC-135A-20211104	550-173773-10	11/04/21	Stage 2A	Water		X			X		X	X				X		
53222	5501737731	PC-148-20211104	550-173773-11	11/04/21	Stage 2A	Water		X			X		X	X				X		
53222	5501737731	PC-149-20211104	550-173773-12	11/04/21	Stage 2A	Water		X			X		X	X				X		
53222	5501737731	M-37-20211104	550-173773-13	11/04/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501737731	M-72-20211104	550-173773-14	11/04/21	Stage 2A	Water		X			X		X	X				X		
53222	5501737731	M-69-20211104	550-173773-15	11/04/21	Stage 2A	Water		X			X		X	X				X		
53222	5501737731	PC-156A-20211104	550-173773-16	11/04/21	Stage 2A	Water		X			X		X	X				X		
53222	5501737731	PC-156B-20211104	550-173773-17	11/04/21	Stage 2A	Water		X			X		X	X				X		
53222	5501737731	M-95-20211104	550-173773-18	11/04/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501737731	M-95-20211104-FB4	550-173773-19	11/04/21	Stage 2A	Water	FB	X		X	X		X	X				X		
53222	5501737731	M-23-20211104	550-173773-20	11/04/21	Stage 2A	Water		X			X		X	X				X		
53222	5501737731	M-71-20211104	550-173773-21	11/04/21	Stage 2A	Water		X			X		X	X				X		

Table I. Sample Cross-Reference

LDC	SDG	Client Sample ID	Lab ID	Sample Date	Validation Level	Matrix	QC Type	Chromium (200.7)	Metals (200.7)	CrVI (218.6)	Anions (300.0)	TIN (Calc)	Chlorate (300.1)	Perchlorate (314.0)	Ammonia as N (350.1)	Phenolics (420.4)	Conductivity (2510B)	TDS (2540C)	TOC (SM5310B)	TOX (SW9020)
53222	5501737731	M-162D-20211104	550-173773-22	11/04/21	Stage 2A	Water		X			X		X	X				X		
53222	5501737731	M-161D-20211104	550-173773-23	11/04/21	Stage 2A	Water		X			X		X	X				X		
53222	5501737731	M-22A-20211104	550-173773-24	11/04/21	Stage 2A	Water		X			X		X	X				X		
53222	5501737731	M-25-20211104	550-173773-25	11/04/21	Stage 2A	Water		X			X		X	X				X		
53222	5501737731	M-14A-20211104	550-173773-26	11/04/21	Stage 2A	Water		X			X		X	X				X		
53222	5501737731	ARP-4A-20211104	550-173773-27	11/04/21	Stage 2A	Water		X			X		X	X				X		
53222	5501737731	PC-60-20211104	550-173773-28	11/04/21	Stage 2A	Water		X			X		X	X				X		
53222	5501737731	PC-60-20211104-EB8	550-173773-29	11/04/21	Stage 2A	Water	EB	X			X		X	X				X		
53222	5501737731	M-38-20211104	550-173773-30	11/04/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501737731	PC-72-20211104	550-173773-31	11/04/21	Stage 2A	Water		X			X		X	X				X		
53222	5501737751	I-C-20211104	550-173775-1	11/04/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501737751	I-F-20211104	550-173775-2	11/04/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501737751	I-X-20211104	550-173775-3	11/04/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501737751	I-N-20211104	550-173775-4	11/04/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501737751	I-E-20211104	550-173775-5	11/04/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501737751	I-M-20211104	550-173775-6	11/04/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501737751	I-D-20211104	550-173775-7	11/04/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501737751	I-C-20211104-EB	550-173775-8	11/04/21	Stage 2A	Water	EB	X		X	X		X	X				X		
53222	5501737761	I-AA-20211104	550-173776-1	11/04/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501737761	I-AB-20211104	550-173776-2	11/04/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501737761	I-B-20211104	550-173776-3	11/04/21	Stage 2A	Water	FD33	X		X	X		X	X				X		
53222	5501737761	I-R-20211104	550-173776-4	11/04/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501737761	I-Y-20211104	550-173776-5	11/04/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501737761	I-L-20211104	550-173776-6	11/04/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501737761	I-S-20211104	550-173776-7	11/04/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501737761	I-AR-20211104	550-173776-8	11/04/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501737761	I-B-20211104-FD	550-173776-9	11/04/21	Stage 2A	Water	FD33	X		X	X		X	X				X		
53222	5501738581	PC-54-20211105	550-173858-1	11/05/21	Stage 2A	Water		X			X		X	X				X		
53222	5501738581	PC-98R-20211105	550-173858-2	11/05/21	Stage 2A	Water		X			X		X	X				X		
53222	5501738581	PC-103-20211105	550-173858-3	11/05/21	Stage 2A	Water		X			X		X	X				X		
53222	5501738581	PC-56-20211105	550-173858-4	11/05/21	Stage 2A	Water		X			X		X	X				X		
53222	5501738581	PC-58-20211105	550-173858-5	11/05/21	Stage 2A	Water	FD34	X			X		X	X				X		
53222	5501738581	PC-58-20211105-FD5	550-173858-6	11/05/21	Stage 2A	Water	FD34	X			X		X	X				X		
53222	5501738581	M-64-20211105	550-173858-7	11/05/21	Stage 2A	Water		X			X		X	X				X		
53222	5501738581	M-65-20211105	550-173858-8	11/05/21	Stage 2A	Water		X			X		X	X				X		
53222	5501738581	M-66-20211105	550-173858-9	11/05/21	Stage 2A	Water		X			X		X	X				X		

Table I. Sample Cross-Reference

LDC	SDG	Client Sample ID	Lab ID	Sample Date	Validation Level	Matrix	QC Type	Chromium (200.7)	Metals (200.7)	CrVI (218.6)	Anions (300.0)	TIN (Calc)	Chlorate (300.1)	Perchlorate (314.0)	Ammonia as N (350.1)	Phenolics (420.4)	Conductivity (2510B)	TDS (2540C)	TOC (SM5310B)	TOX (SW9020)
53222	5501738581	M-70-20211105	550-173858-10	11/05/21	Stage 2A	Water		X			X		X	X				X		
53222	5501738581	M-70-20211105-EB9	550-173858-11	11/05/21	Stage 2A	Water	EB	X			X		X	X				X		
53222	5501738581	M-79-20211105	550-173858-12	11/05/21	Stage 2A	Water		X			X		X	X				X		
53222	5501738581	M-135-20211105	550-173858-13	11/05/21	Stage 2A	Water		X			X		X	X				X		
53222	5501738581	M-57A-20211105	550-173858-14	11/05/21	Stage 2A	Water		X			X		X	X				X		
53222	5501738581	M-57A-20211105-FB9	550-173858-15	11/05/21	Stage 2A	Water	FB	X			X		X	X				X		
53222	5501738581	PC-62-20211105	550-173858-16	11/05/21	Stage 2A	Water		X			X		X	X				X		
53222	5501738581	PC-59-20211105	550-173858-17	11/05/21	Stage 2A	Water	FD35	X			X		X	X				X		
53222	5501738581	PC-59-20211105-FD9	550-173858-18	11/05/21	Stage 2A	Water	FD35	X			X		X	X				X		
53222	5501738581	PC-71-20211105	550-173858-19	11/05/21	Stage 2A	Water		X			X		X	X				X		
53222	5501741101	I-Q-20211110	550-174110-1	11/10/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501741101	I-G-20211110	550-174110-2	11/10/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501741101	I-T-20211110	550-174110-3	11/10/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501741101	I-U-20211110	550-174110-4	11/10/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501741101	I-H-20211110	550-174110-5	11/10/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501741101	I-P-20211110	550-174110-6	11/10/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501741101	I-W-20211110	550-174110-7	11/10/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501741101	I-O-20211110	550-174110-8	11/10/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501743061	PC-99R2/R3-20211115	550-174306-1	11/15/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501743061	PC-115R-20211115	550-174306-2	11/15/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501743061	PC-116R-20211115	550-174306-3	11/15/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501743061	PC-117-20211115	550-174306-4	11/15/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501743061	PC-118-20211115	550-174306-5	11/15/21	Stage 2A	Water	FD36	X		X	X		X	X				X		
53222	5501743061	PC-119-20211115	550-174306-6	11/15/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501743061	PC-120-20211115	550-174306-7	11/15/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501743061	PC-121-20211115	550-174306-8	11/15/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501743061	PC-133-20211115	550-174306-9	11/15/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501743061	PC-118-20211115-FD	550-174306-10	11/15/21	Stage 2A	Water	FD36	X		X	X		X	X				X		
53222	5501743061	PC-119-20211115-EB	550-174306-11	11/15/21	Stage 2A	Water	EB	X		X	X		X	X				X		
53222	5501743091	ART-1A-20211115	550-174309-1	11/15/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501743091	ART-2/2A-20211115	550-174309-2	11/15/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501743091	ART-3A-20211115	550-174309-3	11/15/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501743091	ART-4-20211115	550-174309-4	11/15/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501743091	ART-7B-20211115	550-174309-5	11/15/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501743091	ART-8-20211115	550-174309-6	11/15/21	Stage 2A	Water	FD37	X		X	X		X	X				X		
53222	5501743091	ART-9-20211115	550-174309-7	11/15/21	Stage 2A	Water		X		X	X		X	X				X		

Table I. Sample Cross-Reference

LDC	SDG	Client Sample ID	Lab ID	Sample Date	Validation Level	Matrix	QC Type	Chromium (200.7)	Metals (200.7)	CrVI (218.6)	Anions (300.0)	TIN (Calc)	Chlorate (300.1)	Perchlorate (314.0)	Ammonia as N (350.1)	Phenolics (420.4)	Conductivity (2510B)	TDS (2540C)	TOC (SM5310B)	TOX (SW9020)
53222	5501743091	PC-150-20211115	550-174309-8	11/15/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501743091	ART-8A-20211115-FD	550-174309-9	11/15/21	Stage 2A	Water	FD37	X		X	X		X	X				X		
53222	5501743091	ART-9-20211115-EB	550-174309-10	11/15/21	Stage 2A	Water	EB	X		X	X		X	X				X		
53222	5501743971	LVW8.85-1.1-2021116-20211116	550-174397-1	11/16/21	Stage 2A	Water							X	X				X		
53222	5501743971	LVW7.2-1.0-20211116	550-174397-2	11/16/21	Stage 2A	Water	FD38						X	X				X		
53222	5501743971	LVW7.2-1.0-20211116-FD	550-174397-3	11/16/21	Stage 2A	Water	FD38						X	X				X		
53222	5501743971	LVW6.6-1-1.0-20211116	550-174397-4	11/16/21	Stage 2A	Water							X	X				X		
53222	5501743971	LVW6.6-2-2.8-20211116	550-174397-5	11/16/21	Stage 2A	Water							X	X				X		
53222	5501743971	LVW6.6-3-2.7-20211116	550-174397-6	11/16/21	Stage 2A	Water							X	X				X		
53222	5501743971	LVW6.05-0.8-20211116	550-174397-7	11/16/21	Stage 2A	Water	FD39						X	X				X		
53222	5501743971	LVW6.05-0.8-20211116-FD	550-174397-8	11/16/21	Stage 2A	Water	FD39						X	X				X		
53222	5501743971	LVW6.05-20211116-FB	550-174397-9	11/16/21	Stage 2A	Water	FB						X	X				X		
53222	5501743971	C1-E-0.0-20211116	550-174397-10	11/16/21	Stage 2A	Water							X	X				X		
53222	5501743971	C1-W-0.0-20211116	550-174397-11	11/16/21	Stage 2A	Water							X	X				X		
53222	5501743971	LVW5.3-1-2.6-20211115	550-174397-12	11/15/21	Stage 2A	Water							X	X				X		
53222	5501743971	LVW5.3-2-1.0-20211115	550-174397-13	11/15/21	Stage 2A	Water							X	X				X		
53222	5501743971	LVW5.3-3-1.1-20211115	550-174397-14	11/15/21	Stage 2A	Water							X	X				X		
53222	5501743971	LVW5.3-4-0.6-20211115	550-174397-15	11/15/21	Stage 2A	Water							X	X				X		
53222	5501743971	LVW5.3-5-0.7-20211115	550-174397-16	11/15/21	Stage 2A	Water							X	X				X		
53222	5501743971	LVW5.3-6-0.5-20211115	550-174397-17	11/15/21	Stage 2A	Water							X	X				X		
53222	5501743971	LVW4.75-1-1.6-20211115	550-174397-18	11/15/21	Stage 2A	Water							X	X				X		
53222	5501743971	LVW4.75-2-1.4-20211115	550-174397-19	11/15/21	Stage 2A	Water							X	X				X		
53222	5501743971	LVW4.75-3-1.1-20211115	550-174397-20	11/15/21	Stage 2A	Water							X	X				X		
53222	5501743971	LVW4.75-4-0.9-20211115	550-174397-21	11/15/21	Stage 2A	Water							X	X				X		
53222	5501743971	LVW4.75-5-1.2-20211115	550-174397-22	11/15/21	Stage 2A	Water							X	X				X		
53222	5501743971	LVW4.2-1-2.4-20211115	550-174397-23	11/15/21	Stage 2A	Water							X	X				X		
53222	5501743971	LVW4.2-2-3.2-20211115	550-174397-24	11/15/21	Stage 2A	Water							X	X				X		
53222	5501743971	LVW4.2-3-3.5-20211115	550-174397-25	11/15/21	Stage 2A	Water							X	X				X		
53222	5501743971	LVW4.2-4-1.8-20211115	550-174397-26	11/15/21	Stage 2A	Water							X	X				X		
53222	5501743971	LVW3.5-1-1.2-20211115	550-174397-27	11/15/21	Stage 2A	Water							X	X				X		
53222	5501743971	LVW3.5-2-1.0-20211115	550-174397-28	11/15/21	Stage 2A	Water							X	X				X		
53222	5501743971	LVW3.5-3-1.5-20211115	550-174397-29	11/15/21	Stage 2A	Water							X	X				X		
53222	5501743971	LVW3.5-4-1.5-20211115	550-174397-30	11/15/21	Stage 2A	Water							X	X				X		
53222	5501743971	LVW3.5-5-1.8-20211115	550-174397-31	11/15/21	Stage 2A	Water							X	X				X		
53222	5501743971	LVW3.5-6-1.7-20211115	550-174397-32	11/15/21	Stage 2A	Water							X	X				X		
53222	5501743971	LVW0.55-0.9-20211115	550-174397-33	11/15/21	Stage 2A	Water	FD40						X	X				X		

Table I. Sample Cross-Reference

LDC	SDG	Client Sample ID	Lab ID	Sample Date	Validation Level	Matrix	QC Type	Chromium (200.7)	Metals (200.7)	CrVI (218.6)	Anions (300.0)	TIN (Calc)	Chlorate (300.1)	Perchlorate (314.0)	Ammonia as N (350.1)	Phenolics (420.4)	Conductivity (2510B)	TDS (2540C)	TOC (SM5310B)	TOX (SW9020)
53222	5501743971	LVW0.55-0.9-20211115-FD	550-174397-34	11/15/21	Stage 2A	Water	FD40						X	X				X		
53222	5501743971	LVW0.55-20211115-FB	550-174397-35	11/15/21	Stage 2A	Water	FB						X	X				X		
53222	5501744711	I-AC-20211117	550-174471-1	11/17/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501744711	I-AD-20211117	550-174471-2	11/17/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501744711	I-K-20211117	550-174471-3	11/17/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501744711	I-J-20211117	550-174471-4	11/17/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501744711	I-Z-20211117	550-174471-5	11/17/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501744711	I-I-20211117	550-174471-6	11/17/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501744711	I-V-20211117	550-174471-7	11/17/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501754501	LVW8.85-0.6-20211207	550-175450-1	12/07/21	Stage 2A	Water							X	X				X		
53295	5501754501	LVW7.2-1.0-20211207	550-175450-2	12/07/21	Stage 2A	Water	FD41						X	X				X		
53295	5501754501	LVW7.2-1.0-20211207-FD	550-175450-3	12/07/21	Stage 2A	Water	FD41						X	X				X		
53295	5501754501	LVW6.6-1-1.5-20211207	550-175450-4	12/07/21	Stage 2A	Water							X	X				X		
53295	5501754501	LVW6.6-2-3.0-20211207	550-175450-5	12/07/21	Stage 2A	Water							X	X				X		
53295	5501754501	LVW6.6-3-2.5-20211207	550-175450-6	12/07/21	Stage 2A	Water							X	X				X		
53295	5501754501	LVW6.05-1.0-20211207	550-175450-7	12/07/21	Stage 2A	Water	FD42						X	X				X		
53295	5501754501	LVW6.05-1.0-20211207-FD	550-175450-8	12/07/21	Stage 2A	Water	FD42						X	X				X		
53295	5501754501	LVW6.05-20211207-FB	550-175450-9	12/07/21	Stage 2A	Water	FB						X	X				X		
53295	5501754501	C1-E-0.0-20211207	550-175450-10	12/07/21	Stage 2A	Water							X	X				X		
53295	5501754501	C1-W-0.0-20211207	550-175450-11	12/07/21	Stage 2A	Water							X	X				X		
53295	5501754501	LVW5.3-1-1.0-20211207	550-175450-12	12/07/21	Stage 2A	Water							X	X				X		
53295	5501754501	LVW5.3-2-1.5-20211207	550-175450-13	12/07/21	Stage 2A	Water							X	X				X		
53295	5501754501	LVW5.3-3-1.0-20211207	550-175450-14	12/07/21	Stage 2A	Water							X	X				X		
53295	5501754501	LVW5.3-4-0.5-20211207	550-175450-15	12/07/21	Stage 2A	Water							X	X				X		
53295	5501754501	LVW5.3-5-0.5-20211207	550-175450-16	12/07/21	Stage 2A	Water							X	X				X		
53295	5501754501	LVW5.3-6-0.5-20211207	550-175450-17	12/07/21	Stage 2A	Water							X	X				X		
53295	5501754501	LVW4.75-1-1.5-20211207	550-175450-18	12/07/21	Stage 2A	Water							X	X				X		
53295	5501754501	LVW4.75-2-1.5-20211207	550-175450-19	12/07/21	Stage 2A	Water							X	X				X		
53295	5501754501	LVW4.75-3-1.0-20211207	550-175450-20	12/07/21	Stage 2A	Water							X	X				X		
53295	5501754501	LVW4.75-4-1.0-20211207	550-175450-21	12/07/21	Stage 2A	Water							X	X				X		
53295	5501754501	LVW4.75-5-1.0-20211207	550-175450-22	12/07/21	Stage 2A	Water							X	X				X		
53295	5501754501	LVW4.2-1-3.4-20211208	550-175450-23	12/08/21	Stage 2A	Water							X	X				X		
53295	5501754501	LVW4.2-2-2.0-20211208	550-175450-24	12/08/21	Stage 2A	Water							X	X				X		
53295	5501754501	LVW4.2-3-3.7-20211208	550-175450-25	12/08/21	Stage 2A	Water							X	X				X		
53295	5501754501	LVW4.2-4-1.5-20211208	550-175450-26	12/08/21	Stage 2A	Water							X	X				X		
53295	5501754501	LVW3.5-1-0.9-20211208	550-175450-27	12/08/21	Stage 2A	Water							X	X				X		

Table I. Sample Cross-Reference

LDC	SDG	Client Sample ID	Lab ID	Sample Date	Validation Level	Matrix	QC Type	Chromium (200.7)	Metals (200.7)	CrVI (218.6)	Anions (300.0)	TIN (Calc)	Chlorate (300.1)	Perchlorate (314.0)	Ammonia as N (350.1)	Phenolics (420.4)	Conductivity (2510B)	TDS (2540C)	TOC (SM5310B)	TOX (SW9020)
53295	5501754501	LVW3.5-2-1.0-20211208	550-175450-28	12/08/21	Stage 2A	Water							X	X				X		
53295	5501754501	LVW3.5-3-1.5-20211208	550-175450-29	12/08/21	Stage 2A	Water							X	X				X		
53295	5501754501	LVW3.5-4-1.4-20211208	550-175450-30	12/08/21	Stage 2A	Water							X	X				X		
53295	5501754501	LVW3.5-5-1.8-20211208	550-175450-31	12/08/21	Stage 2A	Water							X	X				X		
53295	5501754501	LVW3.5-6-1.8-20211208	550-175450-32	12/08/21	Stage 2A	Water							X	X				X		
53295	5501754501	LVW0.55-1.2-20211208	550-175450-33	12/08/21	Stage 2A	Water	FD43						X	X				X		
53295	5501754501	LVW0.55-1.2-20211208-FD	550-175450-34	12/08/21	Stage 2A	Water	FD43						X	X				X		
53295	5501754501	LVW0.55-20211208-FB	550-175450-35	12/08/21	Stage 2A	Water	FB						X	X				X		
53295	5501754551	I-AA-20211208	550-175455-1	12/08/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501754551	I-AB-20211208	550-175455-2	12/08/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501754551	I-B-20211208	550-175455-3	12/08/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501754551	I-R-20211208	550-175455-4	12/08/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501754551	I-Y-20211208	550-175455-5	12/08/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501754551	I-L-20211208	550-175455-6	12/08/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501754551	I-S-20211208	550-175455-7	12/08/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501754551	I-AR-20211208	550-175455-8	12/08/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501754561	I-C-20211208	550-175456-1	12/08/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501754561	I-F-20211208	550-175456-2	12/08/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501754561	I-X-20211208	550-175456-3	12/08/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501754561	I-N-20211208	550-175456-4	12/08/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501754561	I-E-20211208	550-175456-5	12/08/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501754561	I-M-20211208	550-175456-6	12/08/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501754561	I-D-20211208	550-175456-7	12/08/21	Stage 2A	Water	FD44	X		X	X		X	X				X		
53295	5501754561	I-D-20211208-FD	550-175456-8	12/08/21	Stage 2A	Water	FD44	X		X	X		X	X				X		
53295	5501754561	I-E-20211208-EB	550-175456-9	12/08/21	Stage 2A	Water	EB	X		X	X		X	X				X		
53295	5501757481	I-Q - 20211213	550-175748-1	12/13/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501757481	I-G - 20211213	550-175748-2	12/13/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501757481	I-T - 20211213	550-175748-3	12/13/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501757481	I-U - 20211213	550-175748-4	12/13/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501757481	I-H - 20211213	550-175748-5	12/13/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501757481	I-P - 20211213	550-175748-6	12/13/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501757481	I-W - 20211213	550-175748-7	12/13/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501757481	I-O - 20211213	550-175748-8	12/13/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501758961	ART-1A-20211215	550-175896-1	12/15/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501758961	ART-2/2A-20211215	550-175896-2	12/15/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501758961	ART-3A-20211215	550-175896-3	12/15/21	Stage 2A	Water		X		X	X		X	X				X		

Table I. Sample Cross-Reference

LDC	SDG	Client Sample ID	Lab ID	Sample Date	Validation Level	Matrix	QC Type	Chromium (200.7)	Metals (200.7)	CrVI (218.6)	Anions (300.0)	TIN (Calc)	Chlorate (300.1)	Perchlorate (314.0)	Ammonia as N (350.1)	Phenolics (420.4)	Conductivity (2510B)	TDS (2540C)	TOC (SM5310B)	TOX (SW9020)
53295	5501758961	ART-4-20211215	550-175896-4	12/15/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501758961	ART-7B-20211215	550-175896-5	12/15/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501758961	ART-8A-20211215	550-175896-6	12/15/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501758961	ART-9-20211215	550-175896-7	12/15/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501758961	PC-150-20211215	550-175896-8	12/15/21	Stage 2A	Water	FD45	X		X	X		X	X				X		
53295	5501758961	PC-150-20211215-FD	550-175896-9	12/15/21	Stage 2A	Water	FD45	X		X	X		X	X				X		
53295	5501758961	ART-1A-20211215-EB	550-175896-10	12/15/21	Stage 2A	Water	EB	X		X	X		X	X				X		
53295	5501758971	PC-99R2/R3 - 20211215	550-175897-1	12/15/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501758971	PC-115R - 20211215	550-175897-2	12/15/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501758971	PC-116R - 20211215	550-175897-3	12/15/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501758971	PC-117 - 20211215	550-175897-4	12/15/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501758971	PC-118 - 20211215	550-175897-5	12/15/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501758971	PC-119 - 20211215	550-175897-6	12/15/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501758971	PC-120 - 20211215	550-175897-7	12/15/21	Stage 2A	Water	FD46	X		X	X		X	X				X		
53295	5501758971	PC-121 - 20211215	550-175897-8	12/15/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501758971	PC-133 - 20211215	550-175897-9	12/15/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501758971	PC-120-20211215-FD	550-175897-10	12/15/21	Stage 2A	Water	FD46	X		X	X		X	X				X		
53295	5501758971	PC-121 - 20211215 - EB	550-175897-11	12/15/21	Stage 2A	Water	EB	X		X	X		X	X				X		
53295	5501759881	I-AC - 20211216	550-175988-1	12/16/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501759881	I-AD - 20211216	550-175988-2	12/16/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501759881	I-K - 20211216	550-175988-3	12/16/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501759881	I-J - 20211216	550-175988-4	12/16/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501759881	I-Z - 20211216	550-175988-5	12/16/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501759881	I-I - 20211216	550-175988-6	12/16/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501759881	I-V - 20211216	550-175988-7	12/16/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501759891	E1-1-20211216	550-175989-1	12/16/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501759891	E1-2-20211216	550-175989-2	12/16/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501759891	E1-3-20211216	550-175989-3	12/16/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501759891	E2-1-20211216	550-175989-4	12/16/21	Stage 2A	Water	FD47	X		X	X		X	X				X		
53295	5501759891	E2-2-20211216	550-175989-5	12/16/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501759891	E2-3-20211216	550-175989-6	12/16/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501759891	E2-4-20211216	550-175989-7	12/16/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501759891	E2-5-20211216	550-175989-8	12/16/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501759891	E2-1-20211216-FD	550-175989-9	12/16/21	Stage 2A	Water	FD47	X		X	X		X	X				X		
53295	5501759891	E2-2-20211216-EB	550-175989-10	12/16/21	Stage 2A	Water	EB	X		X	X		X	X				X		

Table II. Stage 2A Validation Elements

Quality Control Elements	Stage 2A		
	VOCs	Metals	Wet Chemistry
Sample Receipt & Technical Holding Time	√	√	√
Instrument Performance Check	-	-	-
Initial Calibration (ICAL)	-	-	-
Initial Calibration Verification (ICV)	-	-	-
Continuing Calibration Verification (CCV)	-	-	-
Laboratory Blanks	√	√	√
Initial Calibration Blank and Continuing Calibration Blank (ICB/CCB)	N/A	-	-
Field Blanks	√	√	√
Inductively Coupled Plasma (ICP) Interference Check Sample	N/A	-	N/A
Surrogate Spikes	√	N/A	√
Matrix Spike (MS)/ Matrix Spike Duplicate (MSD)	√	√	√
Laboratory Duplicate (DUP)	N/A	N/A	√
Laboratory Control Sample (LCS)/ Laboratory Control Sample Duplicate (LCSD)	√	√	√
Serial Dilution	N/A	-	N/A
Internal Standards	-	-	N/A
Field Duplicate	√	√	√
Project Quantitation Limits (QLs)[1]	√	√	√
Multiple Results for One Sample	√	√	√
Compound Quantitation/ Sample Result Verification	-	-	-
Overall Data Usability Assessment	√	√	√

√ = Reviewed for Stage 2A review
N/A = Not applicable to method or not performed during this sampling event
- = Not applicable for Stage 2A review
[1]PQLs verified for all methods.

Table III. Stage 2A Validation Percentages

Parameter	Stage 2A Results	Total Results	Stage 2A (%)
Metals	535	535	100
Hexavalent Chromium	400	400	100
Chloride, Nitrate-N, Nitrite-N, and Sulfate	507	507	100
Nitrate/Nitrite-N and Total Inorganic Nitrogen - Calculation	4	4	100
Chlorate	704	704	100
Perchlorate	719	719	100
Ammonia-N	2	2	100
Total Recoverable Phenolics	4	4	100
Conductivity	4	4	100
TDS	719	719	100
TOC	4	4	100
TOX	4	4	100

Table IV. Reason Codes and Definitions

Reason Code	Explanation
a	qualified due to low abundance (radiochemical activity)
ba	blank contamination above PQL
bb	blank contamination below PQL
be	qualified due to equipment blank contamination
bf	qualified due to field blank contamination
bl	qualified due to lab blank contamination
bt	qualified due to trip blank contamination
bp	qualified due to pump blank contamination (wells w/o dedicated pumps, when contamination is detected in the Pump Blk)
br	qualified due to filter blank contamination (aqueous Hexavalent Chromium and Dissolved sample fractions)
c	qualified due to calibration problems
cp	qualified due to insufficient ingrowth (radiochemical only)
dc	dual column confirmation RPD exceeded
e	concentration exceeded the calibration range
fd	qualified due to field duplicate imprecision
h	qualified due to holding time exceedance
i	qualified due to internal standard areas
k	qualified as Estimated Maximum Possible Concentrations (dioxins and PCB congeners)
l	qualified due to LCS recoveries
ld	qualified due to lab duplicate imprecision (matrix duplicate, MSD, LCSD)
m	qualified due to matrix spike recoveries
nb	qualified due to negative lab blank contamination (nondetect results only)
nd	qualified due to non-detected target analyte
o	other
orr	other result reported
p	qualified as a false positive due to contamination during shipping
pH	sample preservation not within acceptance range
q	qualified due to quantitation problem
s	qualified due to surrogate recoveries
sd	serial dilution did not meet control criteria
sp	detected value reported >SQL <PQL
st	sample receipt temperature exceeded
t	qualified due to elevated helium tracer concentrations
vh	volatile headspace detected in aqueous sample containers submitted for VOC analysis
x	qualified due to low % solids
z	qualified due to ICS results

Table V. Overall Qualified Results

SDG	Client Sample ID	Sample Date	Method	Client Analyte ID	Analyte	Lab Results	Lab Qualifiers	SQL	PQL	Units	Validator Qualifiers	Reason Code	Data Quality Indicator	Qualification Finding	Acceptance Criteria	
5501666071	I-C-20210707	07/07/21	E218.6	550-166607-1	Chromium VI	3400	F1	0.20	10	ug/l	J+	m	MS/MSD %R	114	90-110	%
5501666071	I-D-20210707	07/07/21	E218.6	550-166607-7	Chromium VI	5700		0.20	40	ug/l	J+	m	MS/MSD %R	114	90-110	%
5501666071	I-E-20210707	07/07/21	E218.6	550-166607-5	Chromium VI	6900		0.20	40	ug/l	J+	m	MS/MSD %R	114	90-110	%
5501666071	I-F-20210707	07/07/21	E218.6	550-166607-2	Chromium VI	14000		0.20	100	ug/l	J+	m	MS/MSD %R	114	90-110	%
5501666071	I-M-20210707	07/07/21	E218.6	550-166607-6	Chromium VI	6500		0.20	40	ug/l	J+	m	MS/MSD %R	114	90-110	%
5501666071	I-N-20210707	07/07/21	E218.6	550-166607-4	Chromium VI	8200		0.20	100	ug/l	J+	m	MS/MSD %R	114	90-110	%
5501666071	I-X-20210707	07/07/21	E218.6	550-166607-3	Chromium VI	11000		0.20	100	ug/l	J+	m	MS/MSD %R	114	90-110	%
5501666081	I-G-20210707	07/07/21	E218.6	550-166608-2	Chromium VI	18000		0.20	100	ug/l	J+	m	MS/MSD %R	114	90-110	%
5501666081	I-H-20210707	07/07/21	E218.6	550-166608-5	Chromium VI	15000		0.20	100	ug/l	J+	m	MS/MSD %R	114	90-110	%
5501666081	I-O-20210707	07/07/21	E300	550-166608-8	Nitrate as N	36	E	0.014	0.014	mg/l	DNR	orr				
5501666081	I-O-20210707	07/07/21	E300	550-166608-8	Nitrate as N	35	H	0.014	0.70	mg/l	J-	h	Holding Times	156	48	hours
5501666081	I-O-20210707	07/07/21	E218.6	550-166608-8	Chromium VI	11000		0.20	100	ug/l	J+	m	MS/MSD %R	114	90-110	%
5501666081	I-P-20210707	07/07/21	E218.6	550-166608-6	Chromium VI	14000		0.20	100	ug/l	J+	m	MS/MSD %R	114	90-110	%
5501666081	I-Q-20210707	07/07/21	E218.6	550-166608-1	Chromium VI	17000		0.20	100	ug/l	J+	m	MS/MSD %R	114	90-110	%
5501666081	I-T-20210707	07/07/21	E218.6	550-166608-3	Chromium VI	18000		0.20	100	ug/l	J+	m	MS/MSD %R	114	90-110	%
5501666081	I-U-20210707	07/07/21	E218.6	550-166608-4	Chromium VI	18000		0.20	100	ug/l	J+	m	MS/MSD %R	114	90-110	%
5501666081	I-W-20210707	07/07/21	E218.6	550-166608-7	Chromium VI	12000		0.20	100	ug/l	J+	m	MS/MSD %R	114	90-110	%
5501666081	I-W-20210707-FD	07/07/21	E218.6	550-166608-9	Chromium VI	12000		0.20	100	ug/l	J+	m	MS/MSD %R	114	90-110	%
5501669911	E1-1-20210713	07/13/21	E300.1	550-166991-1	Chlorate	19000	F1	4.9	490	ug/l	J+	m	MS/MSD %R	138, 156	75-125	%
5501669911	E1-2-20210713	07/13/21	E300.1	550-166991-2	Chlorate	150000		4.9	4900	ug/l	J+	m	MS/MSD %R	138, 156	75-125	%
5501669911	E1-3-20210713	07/13/21	E300.1	550-166991-3	Chlorate	220000		4.9	4900	ug/l	J+	m	MS/MSD %R	138, 156	75-125	%
5501669911	E1-3-20210713-EB	07/13/21	E300	550-166991-10	Nitrate as N	0.020	J	0.014	0.014	mg/l	J	sp	< PQL			
5501669911	E2-1-20210713	07/13/21	E300.1	550-166991-4	Chlorate	11000	F1	4.9	240	ug/l	J+	m	MS/MSD %R	138,-	75-125	%
5501669911	E2-2-20210713	07/13/21	E300	550-166991-5	Nitrate as N	20	H	0.014	0.070	mg/l	J	h	Holding Times	53	48	hours
5501669911	E2-2-20210713	07/13/21	E300	550-166991-5	Nitrate as N	22	E	0.014	0.014	mg/l	DNR	orr				
5501669911	E2-2-20210713	07/13/21	E300.1	550-166991-5	Chlorate	10000		4.9	240	ug/l	J+	m	MS/MSD %R	138,-	75-125	%
5501669911	E2-3-20210713	07/13/21	E300.1	550-166991-6	Chlorate	23000		4.9	490	ug/l	J+	m	MS/MSD %R	138, 156	75-125	%
5501669911	E2-4-20210713	07/13/21	E300.1	550-166991-7	Chlorate	29000		4.9	490	ug/l	J+	m	MS/MSD %R	138, 156	75-125	%
5501670611	ART-8A-20210714	07/14/21	E300	550-167061-6	Nitrate as N	11		0.014	0.070	mg/l	J	fd	FD RPD	38	30	%
5501670611	ART-8A-20210714-FD	07/14/21	E300	550-167061-9	Nitrate as N	7.5		0.014	0.014	mg/l	J	fd	FD RPD	38	30	%
5501670621	PC-117-20210714	07/14/21	E200.7	550-167062-4	Chromium (total)	0.0025	J	0.00085	0.00085	mg/l	J	sp	< PQL			
5501670621	PC-119-20210714	07/14/21	E300	550-167062-6	Nitrate as N	0.078		0.014	0.014	mg/l	J	fd	FD RPD	50	30	%
5501670621	PC-119-20210714-FD	07/14/21	E300	550-167062-10	Nitrate as N	0.13		0.014	0.014	mg/l	J	fd	FD RPD	50	30	%
5501670621	PC-120-20210714-EB	07/14/21	E300	550-167062-11	Nitrate as N	0.046	J	0.014	0.014	mg/l	J	sp	< PQL			
5501670621	PC-133-20210714	07/14/21	E300.1	550-167062-9	Chlorate	28	J	4.9	9.8	ug/l	J	sp	< PQL			
5501685831	LVW6.6-2-3.0-20210806	08/06/21	E314.0	550-168583-5	Perchlorate	0.63	J	0.31	0.31	ug/l	J	sp	< PQL			
5501685831	LVW7.2-1.0-20210806	08/06/21	E314.0	550-168583-2	Perchlorate	0.47	J	0.31	0.31	ug/l	J	sp	< PQL			
5501685831	LVW8.85-0.5-20210805	08/05/21	E314.0	550-168583-1	Perchlorate	0.49	J	0.31	0.31	ug/l	J	sp	< PQL			
5501686691	I-G-20210809	08/09/21	E300.1	550-168669-2	Chlorate	2800000		4.9	49000	ug/l	J	m,ld	MS/MSD %R, RPD	212, 69; 27	75-125; 25	%
5501686691	I-H-20210809	08/09/21	E300.1	550-168669-5	Chlorate	2700000		4.9	49000	ug/l	J	m,ld	MS/MSD %R, RPD	212, 69; 27	75-125; 25	%
5501686691	I-O-20210809	08/09/21	E300.1	550-168669-8	Chlorate	1900000		4.9	49000	ug/l	J	m,ld	MS/MSD %R, RPD	212, 69; 27	75-125; 25	%
5501686691	I-P-20210809	08/09/21	E300.1	550-168669-6	Chlorate	2300000		4.9	49000	ug/l	J	m,ld	MS/MSD %R, RPD	212, 69; 27	75-125; 25	%
5501686691	I-Q-20210809	08/09/21	E300.1	550-168669-1	Chlorate	3900000	F1F2	4.9	49000	ug/l	J	m,ld	MS/MSD %R, RPD	212, 69; 27	75-125; 25	%
5501686691	I-T-20210809	08/09/21	E300.1	550-168669-3	Chlorate	3400000		4.9	49000	ug/l	J	m,ld	MS/MSD %R, RPD	212, 69; 27	75-125; 25	%

Table V. Overall Qualified Results

SDG	Client Sample ID	Sample Date	Method	Client Analyte ID	Analyte	Lab Results	Lab Qualifiers	SQL	PQL	Units	Validator Qualifiers	Reason Code	Data Quality Indicator	Qualification Finding	Acceptance Criteria	
5501686691	I-U-20210809	08/09/21	E300.1	550-168669-4	Chlorate	3100000		4.9	49000	ug/l	J	m,ld	MS/MSD %R, RPD	212, 69; 27	75-125; 25	%
5501686691	I-W-20210809	08/09/21	E300.1	550-168669-7	Chlorate	2000000	cn	4.9	150000	ug/l	J	m,ld	MS/MSD %R, RPD	212, 69; 27	75-125; 25	%
5501688511	E1-2-20210811	08/11/21	E300.1	550-168851-2	Chlorate	140000	cn	4.9	24000	ug/l	J-	m	MS/MSD %R	36,-	75-125	%
5501688511	E1-3-20210811	08/11/21	E300.1	550-168851-3	Chlorate	140000	cn	4.9	24000	ug/l	J-	m	MS/MSD %R	36,-	75-125	%
5501688511	E2-1-20210811	08/11/21	E300.1	550-168851-4	Chlorate	10000		4.9	240	ug/l	J	m,fd	MS/MSD %R, FD RPD	36,-; 40	75-125; 30	%
5501688511	E2-1-20210811-FD	08/11/21	E300.1	550-168851-9	Chlorate	15000	F1	4.9	240	ug/l	J	m,fd	MS/MSD %R, FD RPD	36,-; 40	75-125; 30	%
5501688511	E2-2-20210811	08/11/21	E300.1	550-168851-5	Chlorate	11000		4.9	240	ug/l	J-	m	MS/MSD %R	36,-	75-125	%
5501688511	E2-2-20210811-EB	08/11/21	E314.0	550-168851-10	Perchlorate	0.97	J	0.31	0.31	ug/l	J	sp	< PQL			
5501688511	E2-3-20210811	08/11/21	E300.1	550-168851-6	Chlorate	28000		4.9	490	ug/l	J-	m	MS/MSD %R	36,-	75-125	%
5501688511	E2-4-20210811	08/11/21	E300.1	550-168851-7	Chlorate	26000		4.9	490	ug/l	J-	m	MS/MSD %R	36,-	75-125	%
5501688511	E2-5-20210811	08/11/21	E300.1	550-168851-8	Chlorate	48000		4.9	2400	ug/l	J-	m	MS/MSD %R	36,-	75-125	%
5501688521	I-I-20210811	08/11/21	E218.6	550-168852-6	Chromium VI	5000	F1	0.20	100	ug/l	J+	m	MS/MSD %R	111,-	90-110	%
5501688521	I-V-20210811	08/11/21	E218.6	550-168852-7	Chromium VI	16000		0.20	100	ug/l	J+	m	MS/MSD %R	111,-	90-110	%
5501689551	PC-116R-20210812	08/12/21	E200.7	550-168955-3	Chromium (total)	0.0023	J	0.00085	0.00085	mg/l	J	sp	< PQL			
5501689551	PC-117-20210812	08/12/21	E200.7	550-168955-4	Chromium (total)	0.0035	J	0.00085	0.00085	mg/l	J	sp	< PQL			
5501689551	PC-118-20210812	08/12/21	E200.7	550-168955-5	Chromium (total)	0.0033	J	0.00085	0.00085	mg/l	J	sp	< PQL			
5501689581	ART-1A-20210812-EB	08/12/21	E200.7	550-168958-10	Chromium (total)	0.0011	J	0.00085	0.00085	mg/l	J	sp	< PQL			
5501689581	ART-8A-20210812	08/12/21	E300.1	550-168958-6	Chlorate	69000		4.9	2400	ug/l	J+	m	MS/MSD %R	129,-	75-125	%
5501689581	ART-9-20210812	08/12/21	E300.1	550-168958-7	Chlorate	300000	F1	4.9	4900	ug/l	J+	m	MS/MSD %R	129,-	75-125	%
5501689581	PC-150-20210812	08/12/21	E218.6	550-168958-8	Chromium VI	40	F1	0.20	0.20	ug/l	J+	m	MS/MSD %R	-,112	90-110	%
5501689581	PC-150-20210812	08/12/21	E300.1	550-168958-8	Chlorate	91000		4.9	2400	ug/l	J+	m	MS/MSD %R	129,-	75-125	%
5501689581	PC-150-20210812-FD	08/12/21	E300.1	550-168958-9	Chlorate	110000		4.9	2400	ug/l	J+	m	MS/MSD %R	129,-	75-125	%
5501690621	I-AB-20210816	08/16/21	E300.1	550-169062-1	Chlorate	15000	F1	4.9	240	ug/l	J+	m	MS/MSD %R	129,-	75-125	%
5501690621	I-AB-20210816	08/16/21	E218.6	550-169062-1	Chromium VI	1.1	F1	0.20	0.20	ug/l	J+	m	MS/MSD %R	111,-	90-110	%
5501692531	M-6A-20210818	08/18/21	E420.4	550-169253-1	Phenolics, Recoverable (total)	0.0068	J	0.0068	0.0068	mg/l	J	sp	< PQL			
5501692531	M-7B-20210818	08/18/21	E200.7	550-169253-2	Manganese	0.0098	JB	0.00019	0.00019	mg/l	J	sp,bl,bb	Blank Contamination, < PQL		0.00043	mg/l
5501693521	M-10-20210819	08/19/21	E200.7	550-169352-3	Selenium	0.0090	J	0.0025	0.0025	mg/l	J	sp	< PQL			
5501693521	M-10-20210819	08/19/21	E200.7	550-169352-3	Arsenic	0.011	J	0.0039	0.0039	mg/l	J	sp	< PQL			
5501693521	M-11-20210819-EB4	08/19/21	E200.7	550-169352-7	Chromium (total)	0.0015	J	0.00085	0.00085	mg/l	J	sp	< PQL			
5501693521	M-12A-20210819-FB4	08/19/21	E200.7	550-169352-2	Chromium (total)	0.00087	J	0.00085	0.00085	mg/l	J	sp	< PQL			
5501702821	I-D-20210908	09/08/21	E300	550-170282-7	Nitrate as N	46	Hcn	0.014	0.14	mg/l	DNR	orr				
5501702821	I-M-20210908	09/08/21	E300	550-170282-6	Nitrate as N	47	Hcn	0.014	0.14	mg/l	DNR	orr				
5501702831	I-AA-20210908	09/08/21	E218.6	550-170283-1	Chromium VI	56		0.20	0.20	ug/l	J	m	MS/MSD %R	87,113	90-110	%
5501702831	I-AA-20210908-FD	09/08/21	E300.1	550-170283-9	Chlorate	19000		4.9	240	ug/l	J+	m	MS/MSD %R	-,127	75-125	%
5501702831	I-AA-20210908-FD	09/08/21	E218.6	550-170283-9	Chromium VI	56		0.20	0.20	ug/l	J	m	MS/MSD %R	87,113	90-110	%
5501702831	I-AB-20210908	09/08/21	E218.6	550-170283-2	Chromium VI	15		0.20	0.20	ug/l	J	m	MS/MSD %R	87,113	90-110	%
5501702831	I-AB-20210908	09/08/21	E300.1	550-170283-2	Chlorate	15000	F1	4.9	240	ug/l	J+	m	MS/MSD %R	-,127	75-125	%
5501702831	I-AB-20210908	09/08/21	E300	550-170283-2	Nitrate as N	22	Hcn	0.014	0.070	mg/l	DNR	orr				
5501702831	I-AR-20210908	09/08/21	E218.6	550-170283-8	Chromium VI	760		0.20	4.0	ug/l	J	m	MS/MSD %R	87,113	90-110	%
5501702831	I-AR-20210908	09/08/21	E300.1	550-170283-8	Chlorate	210000		4.9	9800	ug/l	J+	m	MS/MSD %R	-,127	75-125	%
5501702831	I-B-20210908	09/08/21	E300.1	550-170283-3	Chlorate	58000		4.9	4900	ug/l	J+	m	MS/MSD %R	-,127	75-125	%
5501702831	I-B-20210908	09/08/21	E218.6	550-170283-3	Chromium VI	210		0.20	2.0	ug/l	J	m	MS/MSD %R	87,113	90-110	%
5501702831	I-L-20210908	09/08/21	E218.6	550-170283-6	Chromium VI	1100		0.20	10	ug/l	J	m	MS/MSD %R	87,113	90-110	%
5501702831	I-L-20210908	09/08/21	E300.1	550-170283-6	Chlorate	270000		4.9	24000	ug/l	J+	m	MS/MSD %R	-,127	75-125	%

Table V. Overall Qualified Results

SDG	Client Sample ID	Sample Date	Method	Client Analyte ID	Analyte	Lab Results	Lab Qualifiers	SQL	PQL	Units	Validator Qualifiers	Reason Code	Data Quality Indicator	Qualification Finding	Acceptance Criteria	
5501702831	I-R-20210908	09/08/21	E300.1	550-170283-4	Chlorate	230000		4.9	4900	ug/l	J+	m	MS/MSD %R	-,127	75-125	%
5501702831	I-R-20210908	09/08/21	E218.6	550-170283-4	Chromium VI	830	F1	0.20	10	ug/l	J	m	MS/MSD %R	87,113	90-110	%
5501702831	I-S-20210908	09/08/21	E218.6	550-170283-7	Chromium VI	1500		0.20	10	ug/l	J	m	MS/MSD %R	87,113	90-110	%
5501702831	I-S-20210908	09/08/21	E300.1	550-170283-7	Chlorate	350000		4.9	24000	ug/l	J+	m	MS/MSD %R	-,127	75-125	%
5501702831	I-Y-20210908	09/08/21	E300.1	550-170283-5	Chlorate	290000		4.9	24000	ug/l	J+	m	MS/MSD %R	-,127	75-125	%
5501702831	I-Y-20210908	09/08/21	E218.6	550-170283-5	Chromium VI	1100		0.20	10	ug/l	J	m	MS/MSD %R	87,113	90-110	%
5501703881	I-G-20210909	09/09/21	E300	550-170388-2	Nitrate as N	74		0.014	0.14	mg/l	J-	m	MS/MSD %R	59,74	80-120	%
5501703881	I-H-20210909	09/09/21	E300	550-170388-5	Nitrate as N	86		0.014	0.14	mg/l	J-	m	MS/MSD %R	59,74	80-120	%
5501703881	I-H-20210909	09/09/21	E300.1	550-170388-5	Chlorate	2700000		4.9	49000	ug/l	J+	m	MS/MSD %R	139,126	75-125	%
5501703881	I-O-20210909	09/09/21	E300.1	550-170388-8	Chlorate	1800000		4.9	49000	ug/l	J+	m	MS/MSD %R	139,126	75-125	%
5501703881	I-O-20210909	09/09/21	E300	550-170388-8	Nitrate as N	44		0.014	0.14	mg/l	J-	m	MS/MSD %R	59,74	80-120	%
5501703881	I-P-20210909	09/09/21	E300	550-170388-6	Nitrate as N	67		0.014	0.14	mg/l	J-	m	MS/MSD %R	59,74	80-120	%
5501703881	I-P-20210909	09/09/21	E300.1	550-170388-6	Chlorate	2400000		4.9	49000	ug/l	J+	m	MS/MSD %R	139,126	75-125	%
5501703881	I-Q-20210909	09/09/21	E300	550-170388-1	Nitrate as N	82	F1	0.014	0.14	mg/l	J-	m	MS/MSD %R	59,74	80-120	%
5501703881	I-T-20210909	09/09/21	E300	550-170388-3	Nitrate as N	94		0.014	0.14	mg/l	J-	m	MS/MSD %R	59,74	80-120	%
5501703881	I-T-20210909	09/09/21	E300.1	550-170388-3	Chlorate	3200000	F1	4.9	49000	ug/l	J+	m	MS/MSD %R	139,126	75-125	%
5501703881	I-U-20210909	09/09/21	E300.1	550-170388-4	Chlorate	3100000		4.9	49000	ug/l	J+	m	MS/MSD %R	139,126	75-125	%
5501703881	I-U-20210909	09/09/21	E300	550-170388-4	Nitrate as N	100		0.014	0.14	mg/l	J-	m	MS/MSD %R	59,74	80-120	%
5501703881	I-W-20210909	09/09/21	E300	550-170388-7	Nitrate as N	53		0.014	0.14	mg/l	J-	m	MS/MSD %R	59,74	80-120	%
5501703881	I-W-20210909	09/09/21	E300.1	550-170388-7	Chlorate	2000000		4.9	49000	ug/l	J+	m	MS/MSD %R	139,126	75-125	%
5501705351	E1-1-20210913	09/13/21	E300.1	550-170535-1	Chlorate	26000		4.9	490	ug/l	J+	m	MS/MSD %R	132,127	75-125	%
5501705351	E1-2-20210913	09/13/21	E300.1	550-170535-2	Chlorate	160000		4.9	4900	ug/l	J+	m	MS/MSD %R	132,127	75-125	%
5501705351	E1-3-20210913	09/13/21	E300.1	550-170535-3	Chlorate	180000		4.9	4900	ug/l	J+	m	MS/MSD %R	132,127	75-125	%
5501705351	E2-1-20210913	09/13/21	E300.1	550-170535-4	Chlorate	13000	F1	4.9	240	ug/l	J+	m	MS/MSD %R	132,127	75-125	%
5501705351	E2-2-20210913	09/13/21	E300.1	550-170535-5	Chlorate	11000		4.9	240	ug/l	J+	m	MS/MSD %R	132,127	75-125	%
5501705351	E2-3-20210913	09/13/21	E300.1	550-170535-6	Chlorate	20000		4.9	490	ug/l	J+	m	MS/MSD %R	132,127	75-125	%
5501705351	E2-3-20210913-FD	09/13/21	E300.1	550-170535-9	Chlorate	20000		4.9	490	ug/l	J+	m	MS/MSD %R	132,127	75-125	%
5501705351	E2-4-20210913	09/13/21	E300.1	550-170535-7	Chlorate	18000		4.9	490	ug/l	J+	m	MS/MSD %R	132,127	75-125	%
5501705351	E2-5-20210913	09/13/21	E300.1	550-170535-8	Chlorate	47000		4.9	980	ug/l	J+	m	MS/MSD %R	132,127	75-125	%
5501705351	E1-3-20210913	09/13/21	E300	550-170535-3	Nitrate as N	83	Hcn	0.014	0.14	mg/l	J-	h	Holding Times	848	48	hours
5501707291	ART-2/2A-20210915	09/15/21	E300	550-170729-2	Nitrate as N	1.6		0.014	0.014	mg/l	J	fd	FD RPD	48	30	%
5501707291	ART-2/2A-20210915-FD	09/15/21	E300	550-170729-9	Nitrate as N	2.6		0.014	0.014	mg/l	J	fd	FD RPD	48	30	%
5501707301	PC-116R-20210915	09/15/21	E200.7	550-170730-3	Chromium (total)	0.0027	J	0.00085	0.00085	mg/l	J	sp	< PQL			
5501707301	PC-117-20210915	09/15/21	E200.7	550-170730-4	Chromium (total)	0.0035	J	0.00085	0.00085	mg/l	J	sp	< PQL			
5501707301	PC-121-20210915	09/15/21	E314.0	550-170730-8	Perchlorate	0.95	J	0.31	0.31	ug/l	J	sp	< PQL			
5501718781	E1-3-20211006	10/06/21	E300	550-171878-3	Nitrate as N	69	Hcn	0.014	0.28	mg/l	DNR	orr				
5501718781	E1-3-20211006	10/06/21	E300	550-171878-3	Nitrate as N	71	Hcn	0.014	0.28	mg/l	DNR	orr				
5501718781	E2-5-20211006	10/06/21	E300	550-171878-8	Nitrate as N	120	Hcn	0.014	0.28	mg/l	DNR	orr				
5501718781	E2-5-20211006-FD	10/06/21	E300	550-171878-9	Nitrate as N	120	Hcn	0.014	0.28	mg/l	DNR	orr				
5501722551	LVW8.85-1.0-20211012	10/12/21	E314.0	550-172255-1	Perchlorate	0.87	J	0.31	0.31	ug/l	J	sp	< PQL			
5501723531	I-AD-20211013-EB	10/13/21	E200.7	550-172353-9	Chromium (total)	0.0052	J	0.00085	0.00085	mg/l	J	sp	< PQL			
5501724601	PC-117-20211014	10/14/21	E200.7	550-172460-4	Chromium (total)	0.0020	J	0.00085	0.00085	mg/l	J	sp	< PQL			
5501734301	PC-97-20211101	11/01/21	E300.1	550-173430-5	Chlorate	10	J	4.9	4.9	ug/l	J	sp	< PQL			
5501735301	ARP-2A-20211102	11/02/21	E200.7	550-173530-27	Chromium (total)	0.0029	J	0.00085	0.00085	mg/l	J	sp	< PQL			

Table V. Overall Qualified Results

SDG	Client Sample ID	Sample Date	Method	Client Analyte ID	Analyte	Lab Results	Lab Qualifiers	SQL	PQL	Units	Validator Qualifiers	Reason Code	Data Quality Indicator	Qualification Finding	Acceptance Criteria	
5501735301	ARP-3A-20211102	11/02/21	E200.7	550-173530-20	Chromium (total)	0.0059	J	0.00085	0.00085	mg/l	J	sp	< PQL			
5501735301	MW-K5-20211102	11/02/21	E200.7	550-173530-15	Chromium (total)	0.0032	J	0.00085	0.00085	mg/l	J	sp	< PQL			
5501735301	PC-101R-20211102	11/02/21	E200.7	550-173530-29	Chromium (total)	0.0065	J	0.00085	0.00085	mg/l	J	sp	< PQL			
5501735301	PC-122-20211102-EB6	11/02/21	E314.0	550-173530-28	Perchlorate	0.95	J	0.31	0.31	ug/l	J	sp	< PQL			
5501736181	M-67-20211103-FB7	11/03/21	E300.1	550-173618-23	Chlorate	19	J	4.9	4.9	ug/l	J	sp	< PQL			
5501736181	PC-129-20211103-FB8	11/03/21	E314.0	550-173618-28	Perchlorate	0.40	J	0.31	0.31	ug/l	J	sp	< PQL			
5501736181	PC-131-20211103	11/03/21	E300.1	550-173618-29	Chlorate	31	J	4.9	9.8	ug/l	J	sp	< PQL			
5501736181	PC-132-20211103	11/03/21	E300	550-173618-12	Nitrate as N	0.044	J	0.014	0.014	mg/l	J	sp	< PQL			
5501736181	PC-134D-20211103	11/03/21	E314.0	550-173618-32	Perchlorate	0.42	J	0.31	0.31	ug/l	J	sp	< PQL			
5501736181	PC-152-20211103	11/03/21	E200.7	550-173618-9	Chromium (total)	0.0037	J	0.00085	0.00085	mg/l	J	sp	< PQL			
5501736311	E1-3-20211103-EB	11/03/21	E314.0	550-173631-10	Perchlorate	0.40	J	0.31	0.31	ug/l	J	sp	< PQL			
5501737731	M-10-20211104	11/04/21	E350.1	550-173773-1	Ammonia (as N)	0.047	J	0.039	0.039	mg/l	J	sp	< PQL			
5501737731	M-10-20211104	11/04/21	E200.7	550-173773-1	Selenium	0.0048	J	0.0025	0.0025	mg/l	J	sp	< PQL			
5501737731	M-10-20211104	11/04/21	E200.7	550-173773-1	Arsenic	0.011	J	0.0039	0.0039	mg/l	J	sp	< PQL			
5501737731	M-10-20211104	11/04/21	E300	550-173773-1	Nitrate as N	0.014	J	0.014	0.014	mg/l	J	sp	< PQL			
5501737731	M-161D-20211104	11/04/21	E300.1	550-173773-23	Chlorate	16	J	4.9	4.9	ug/l	J	sp	< PQL			
5501737731	M-80-20211104-EB4	11/04/21	E300.1	550-173773-9	Chlorate	19	J	4.9	4.9	ug/l	J	sp	< PQL			
5501737731	PC-156A-20211104	11/04/21	E200.7	550-173773-16	Chromium (total)	0.0019	J	0.00085	0.00085	mg/l	J	sp	< PQL			
5501737731	PC-156B-20211104	11/04/21	E300.1	550-173773-17	Chlorate	20	J	4.9	9.8	ug/l	J	sp	< PQL			
5501737731	PC-156B-20211104	11/04/21	E200.7	550-173773-17	Chromium (total)	0.0095	J	0.00085	0.00085	mg/l	J	sp	< PQL			
5501737731	PC-60-20211104	11/04/21	E300.1	550-173773-28	Chlorate	31	J	4.9	9.8	ug/l	J	sp	< PQL			
5501737751	I-C-20211104-EB	11/04/21	E200.7	550-173775-8	Chromium (total)	0.0018	J	0.00085	0.00085	mg/l	J	sp	< PQL			
5501737761	I-R-20211104	11/04/21	E314.0	550-173776-4	Perchlorate	640000	Hcn	0.31	6300	ug/l	J-	h	Holding Times	34	28	days
5501737761	I-R-20211104	11/04/21	E314.0	550-173776-4	Perchlorate	630000	Hcn	0.31	6300	ug/l	DNR	orr				
5501738581	PC-103-20211105	11/05/21	E300.1	550-173858-3	Chlorate	13	J	4.9	4.9	ug/l	J	sp	< PQL			
5501738581	PC-56-20211105	11/05/21	E200.7	550-173858-4	Chromium (total)	0.0013	J	0.00085	0.00085	mg/l	J	sp	< PQL			
5501738581	PC-98R-20211105	11/05/21	E200.7	550-173858-2	Chromium (total)	0.0024	J	0.00085	0.00085	mg/l	J	sp	< PQL			
5501741101	I-O-20211110	11/10/21	E314.0	550-174110-8	Perchlorate	700000	cn	0.31	16000	ug/l	DNR	orr				
5501741101	I-Q-20211110	11/10/21	E314.0	550-174110-1	Perchlorate	590000	cn	0.31	6300	ug/l	DNR	orr				
5501741101	I-T-20211110	11/10/21	E314.0	550-174110-3	Perchlorate	770000	cn	0.31	16000	ug/l	DNR	orr				
5501741101	I-U-20211110	11/10/21	E314.0	550-174110-4	Perchlorate	750000	cn	0.31	16000	ug/l	DNR	orr				
5501741101	I-W-20211110	11/10/21	E314.0	550-174110-7	Perchlorate	530000	cn	0.31	16000	ug/l	DNR	orr				
5501743061	PC-117-20211115	11/15/21	E200.7	550-174306-4	Chromium (total)	0.0018	J	0.00085	0.00085	mg/l	J	sp	< PQL			
5501743061	PC-119-20211115-EB	11/15/21	E300	550-174306-11	Nitrate as N	0.047	J	0.014	0.014	mg/l	J	sp	< PQL			
5501743091	ART-2/2A-20211115	11/15/21	E200.7	550-174309-2	Chromium (total)	0.0021	J	0.00085	0.00085	mg/l	J	sp	< PQL			
5501743091	ART-8-20211115	11/15/21	E218.6	550-174309-6	Chromium VI	69		0.50	2.5	ug/l	J	fd	FD RPD	36	30	%
5501743091	ART-8A-20211115-FD	11/15/21	E218.6	550-174309-9	Chromium VI	48		0.50	2.5	ug/l	J	fd	FD RPD	36	30	%
5501743091	ART-9-20211115-EB	11/15/21	E300	550-174309-10	Nitrate as N	0.047	J	0.014	0.014	mg/l	J	sp	< PQL			
5501743971	LVW0.55-0.9-20211115	11/15/21	SM2540C	550-174397-33	Dissolved Solids (total)	1100	H	20	20	mg/l	J-	h	Holding Times	8	7	days
5501743971	LVW0.55-0.9-20211115-FD	11/15/21	SM2540C	550-174397-34	Dissolved Solids (total)	1200	H	20	20	mg/l	J-	h	Holding Times	8	7	days
5501743971	LVW0.55-20211115-FB	11/15/21	SM2540C	550-174397-35	Dissolved Solids (total)		UH	20	20	mg/l	UJ	h,nd	Holding Times	8	7	days
5501743971	LVW3.5-6-1.7-20211115	11/15/21	SM2540C	550-174397-32	Dissolved Solids (total)	1200	H	20	20	mg/l	J-	h	Holding Times	8	7	days
5501754501	LVW6.6-3-2.5-20211207	12/07/21	E300.1	550-175450-6	Chlorate	78	J	4.9	24	ug/l	J	sp	< PQL			
5501754501	LVW7.2-1.0-20211207	12/07/21	E300.1	550-175450-2	Chlorate	88	J	4.9	24	ug/l	J	sp	< PQL			

Table V. Overall Qualified Results

SDG	Client Sample ID	Sample Date	Method	Client Analyte ID	Analyte	Lab Results	Lab Qualifiers	SQL	PQL	Units	Validator Qualifiers	Reason Code	Data Quality Indicator	Qualification Finding	Acceptance Criteria	
5501754501	LVW7.2-1.0-20211207-FD	12/07/21	E300.1	550-175450-3	Chlorate	87	J	4.9	24	ug/l	J	sp	< PQL			
5501754501	LVW8.85-0.6-20211207	12/07/21	E300.1	550-175450-1	Chlorate	69	J	4.9	24	ug/l	J	sp	< PQL			
5501754551	I-AB-20211208	12/08/21	E200.7	550-175455-2	Chromium (total)	0.0082	J	0.00085	0.00085	mg/l	J	sp	< PQL			
5501758971	PC-117 - 20211215	12/15/21	E200.7	550-175897-4	Chromium (total)	0.0033	J	0.00085	0.00085	mg/l	J	sp	< PQL			
5501759891	E2-1-20211216-FD	12/16/21	SM2540C	550-175989-9	Dissolved Solids (total)	2700	cn	20	40	mg/l	DNR	orr				
5501759891	E2-1-20211216-FD	12/16/21	SM2540C	550-175989-9	Dissolved Solids (total)	2700	H	20	40	mg/l	J-	h,sp	Holding Times, < PQL	13	7	days
5501759891	E2-2-20211216	12/16/21	SM2540C	550-175989-5	Dissolved Solids (total)	3100	H	20	40	mg/l	J-	h,sp	Holding Times, < PQL	13	7	days
5501759891	E2-2-20211216	12/16/21	SM2540C	550-175989-5	Dissolved Solids (total)	2700	cn	20	40	mg/l	DNR	orr				
5501759891	E2-3-20211216	12/16/21	SM2540C	550-175989-6	Dissolved Solids (total)	3800	H	20	100	mg/l	J-	h,sp	Holding Times, < PQL	13	7	days
5501759891	E2-3-20211216	12/16/21	SM2540C	550-175989-6	Dissolved Solids (total)	4400	cn	20	100	mg/l	DNR	orr				
5501682671	I-E-20210803	8/3/2021	E300	550-168267-5	Nitrate as N	29	E	0.014	0.014	mg/l	J	e	Exceeded calibration range			

ATTACHMENT A

Metals Data Validation Report

Arsenic, Boron, Chromium, Iron, Manganese, Selenium, and Sodium by Environmental Protection Agency (EPA) Method 200.7

I. Sample Receipt and Technical Holding Times

All samples were received in good condition.

All technical holding time requirements were met.

II. Laboratory Blanks

Laboratory blanks were analyzed as required by the method. No contaminants were found in the laboratory blanks with the following exceptions:

SDG	Blank ID	Analyte	Maximum Concentration	Associated Samples
550-169253-1	PB (prep blank)	Manganese	0.00043 mg/L	All samples in SDG 550-169253-1
550-169253-1	PB (prep blank)	Sodium	0.0471 mg/L	All samples in SDG 550-169253-1
550-169253-1	PB (prep blank)	Sodium Boron	1.49 mg/L 0.427 mg/L	No associated samples in this SDG
550-169352-1	PB (prep blank)	Iron	0.0229 mg/L	M-10-20210819
550-170282-1	PB (prep blank)	Chromium	0.00279 mg/L	All samples in SDG 550-170282-1
550-170283-1	PB (prep blank)	Chromium	0.00279 mg/L	All samples in SDG 550-170283-1
550-173773-1	PB (prep blank)	Manganese	0.00166 mg/L	M-10-20211104
550-174110-1	PB (prep blank)	Chromium	0.00184 mg/L	All samples in SDG 550-174110-1

Data qualification by the laboratory blanks was based on the maximum contaminant concentration in the laboratory blanks in the analysis of each analyte. The sample concentrations were either not detected or were significantly greater than the concentrations found in the associated laboratory blanks with the following exceptions:

SDG	Sample	Analyte	Reported Concentration	Modified Final Concentration
550-169253-1	M-7B-20210818	Manganese	0.0098 mg/L	0.0098J mg/L

III. Field Blanks

Samples I-X-2021 07 07-EB (from SDG 550-166607-1), E1-3 - 2021 07 13-EB (from SDG 550-166991-1), ART-9 - 2021 07 14-EB (from SDG 550-167061-1), PC-120 - 2021 07 14-EB (from SDG 550-167062-1), I-Z - 2021 08 11-EB (from SDG 550-168852-1), PC-133 - 2021 08 12-EB (from SDG 550-168955-1), ART-1A - 2021 08 12-EB (from SDG 550-168958-1), M-11-20210819-EB4 (from SDG 550-169352-1), I-AB-2021 09 08-EB (from SDG 550-170283-1), E2-4-2021 09 13-EB (from SDG 550-170535-1), ART-3A-2021 09 15-EB (from SDG 550-170729-1), PC-115R-2021 09 15-EB (from SDG 550-170730-1), E1-1-2021 10 06-EB (from SDG 550-171878-1), I-AD-2021 10 13-EB (from SDG 550-172353-1), PC-117-2021 10 14-EB (from SDG 550-172460-1), ART-7B-2021 10 14-EB (from SDG 550-172463-1), PC-155B-20211101-EB5 (from SDG 550-173430-1), PC-122-20211102-EB6 (from SDG 550-173530-1), PC-126-20211103-EB7 (from SDG 550-173618-1), E1-3-20211103-EB (from SDG 550-173631-1), M-80-20211104-EB4 and PC-60-20211104-EB8 (both from SDG 550-173773-1), I-C-20211104-EB (from SDG 550-173775-1), M-70-20211105-EB9 (from SDG 550-173858-1), PC-119-20211115-EB (from SDG 550-174306-1), ART-9-20211115-EB (from SDG 550-174309-1), I-E-20211208-EB (from SDG 550-175456-1), ART-1A-20211215-EB (from SDG 550-175896-1), PC-121-20211215-EB (from SDG 550-175897-1), and E2-2-20211216-EB (from SDG 550-175989-1) were identified as equipment blanks. No contaminants were found with the following exceptions:

SDG	Blank ID	Collection Date	Analyte	Concentration	Associated Samples
550-168958-1	ART-1A - 2021 08 12-EB	08/12/21	Chromium	0.0011 mg/L	ART-1A - 2021 08 12
550-169352-1	M-11-20210819-EB4	08/19/21	Chromium	0.0015 mg/L	M-11-20210819
550-172353-1	I-AD-2021 10 13-EB	10/13/21	Chromium	0.0052 mg/L	I-AD-2021 10 13
550-173775-1	I-C-20211104-EB	11/04/21	Chromium	0.0018 ug/L	I-C-20211104

Samples M-12A-20210819-FB4 (from SDG 550-169352-1), ARP-7-20211102-FB6 and PC-91-20211102-FB5 (both from SDG 550-173530-1), M-67-20211103-FB7 and PC-129-20211103-FB8 (both from SDG 550-173618-1), M-95-20211104-FB4 (from SDG 550-173773-1), and M-57A-20211105-FB9 (from SDG 550-173858-1) were identified as a field blanks. No contaminants were found with the following exceptions:

SDG	Blank ID	Collection Date	Analyte	Concentration	Associated Samples
550-169352-1	M-12A-20210819-FB4	08/19/21	Chromium	0.00087 mg/L	M-12A-20210819

Sample concentrations were compared to concentrations detected in the field blanks. The sample concentrations were either not detected or were significantly greater than the concentrations found in the associated field blanks.

IV. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) sample analysis was performed on an associated project sample. For M-10-20211104MS/MSD (from SDG 550-173773-1), no data were qualified for iron percent recoveries (%R) outside the QC limits since the parent sample results were greater than 4X the spike concentration. Relative percent differences (RPD) were within QC limits.

V. Duplicate Sample Analysis

The laboratory has indicated that there were no duplicate (DUP) analyses specified for the samples in these SDGs, and therefore duplicate analyses were not performed for these SDGs.

VI. Serial Dilution

Serial dilution was not performed for these SDGs.

VII. Laboratory Control Samples

Laboratory control samples (LCS) and laboratory control samples duplicates (LCSD) were analyzed as required by the method. Percent recoveries (%R) were within QC limits. Relative percent differences (RPD) were within QC limits.

VIII. Field Duplicates

Samples I-W-2021 07 07 and I-W-2021 07 07-FD (both from SDG 550-166608-1), samples E1-2 - 2021 07 13 and E1-2 - 2021 07 13-FD (both from SDG 550-166991-1), samples ART-8A - 2021 07 14 and ART-8A - 2021 07 14-FD (both from SDG 550-167061-1), samples PC-119 - 2021 07 14 and PC-119 - 2021 07 14-FD (both from SDG 550-167062-1) samples I-Y - 2021 08 09 and I-Y - 2021 08 09-FD (both from SDG 550-168668-1), samples E2-1 - 2021 08 11 and E2-1 - 2021 08 11-FD (both from SDG 550-168851-1), samples PC-121 - 2021 08 12 and PC-121 - 2021 08 12-FD (both from SDG 550-168955-1), samples PC-150 - 2021 08 12 and PC-150 - 2021 08 12-FD (both from SDG 550-168958-1), samples M-95 – 20210817 and M-95 - 20210817-FD4 (both from SDG 550-169157-1), samples I-AA-2021 09 08 and I-AA-2021 09 08-FD (both from SDG 550-170283-1), samples E2-3-2021 09 13 and E2-3-2021 09 13-FD (both from SDG 550-170535-1), samples ART-2/2A-2021 09 15 and ART-2/2A-2021 09 15-FD (both from SDG 550-170729-1), samples PC-99R2/R3-2021 09 15 and PC-99R2/R3-2021 09 15-FD (both from SDG 550-170730-1), samples E2-5-2021 10 06 and E2-5-2021 10 06-FD (both from SDG 550-171878-1), samples I-AC-2021 10 13 and I-AC-2021 10 13-FD (both from SDG 550-172353-1), samples PC-116R-2021 10 14 and PC-116R-2021 10 14-FD (both from SDG 550-172460-1), samples ART-4-2021 10 14 and ART-4-2021 10 14-FD (both from SDG 550-172463-1), Samples M-11-20211102 and M-11-20211102-FD4 (both from SDG 550-173530-1), samples PC-130-20211103 and PC-130-20211103-FD6 (both from SDG 550-173618-1), samples ARP-1-20211103 and ARP-1-20211103-FD7 (both from SDG 550-173618-1), samples E1-2-20211103 and E1-2-20211103-FD (both from SDG 550-173631-1), samples M-83-20211104 and M-83-20211104-FD8 (both from SDG 550-173773-1), samples I-B-20211104 and I-B-

20211104-FD (both from SDG 550-173776-1), samples PC-58-20211105 and PC-58-20211105-FD5 (both from SDG 550-173858-1), samples PC-59-20211105 and PC-59-20211105-FD9 (both from SDG 550-173858-1), samples PC-118-20211115 and PC-118-20211115-FD (both from SDG 550-174306-1), samples ART-8-20211115 and ART-8A-20211115-FD (both from SDG 550-174309-1), samples I-D-20211208 and I-D-20211208-FD (both from SDG 550-175456-1), samples PC-150-20211215 and PC-150-20211215-FD (both from SDG 550-175896-1), samples PC-120-20211215 and PC-120-20211215-FD (both from SDG 550-175897-1), samples E2-1-20211216 and E2-1-20211216-FD (both from SDG 550-175989-1) were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		I-W-2021 07 07	I-W-2021 07 07-FD			
550-166608-1	Chromium	10	9.6	4 (≤30)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		E1-2 - 2021 07 13	E1-2 - 2021 07 13-FD			
550-166991-1	Chromium	0.46	0.47	2 (≤30)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		ART-8A - 2021 07 14	ART-8A - 2021 07 14-FD			
550-167061-1	Chromium	0.065	0.067	3 (≤30)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		I-Y - 2021 08 09	I-Y - 2021 08 09-FD			
550-168668-1	Chromium	1.2	1.3	8 (≤30)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		E2-1 - 2021 08 11	E2-1 - 2021 08 11-FD			
550-168851-1	Chromium	0.042	0.038	10 (≤30)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		PC-150 - 2021 08 12	PC-150 - 2021 08 12-FD			
550-168958-1	Chromium	0.039	0.040	3 (≤30)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		M-95 - 20210817	M-95 - 20210817-FD4			
550-169157-1	Chromium	0.28	0.30	7 (≤30)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		I-AA-2021 09 08	I-AA-2021 09 08-FD			
550-170283-1	Chromium	0.054	0.049	10 (≤30)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		E2-3-2021 09 13	E2-3-2021 09 13-FD			
550-170535-1	Chromium	0.10	0.083	19 (≤30)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		E2-5-2021 10 06	E2-5-2021 10 06-FD			
550-171878-1	Chromium	0.18	0.17	6 (≤30)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		I-AC-2021 10 13	I-AC-2021 10 13-FD			
550-172353-1	Chromium	1.8	1.9	5 (≤30)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		ART-4-2021 10 14	ART-4-2021 10 14-FD			
550-172463-1	Chromium	0.11	0.11	0 (≤30)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		M-11-20211102	M-11-20211102-FD4			
550-173530-1	Chromium	3.1	3.3	6 (≤30)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		PC-130-20211103	PC-130-20211103-FD6			
550-173618-1	Chromium	0.50	0.51	2 (≤30)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		E1-2-20211103	E1-2-20211103-FD			
550-173631-1	Chromium	0.49	0.50	2 (≤30)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		M-83-20211104	M-83-20211104-FD8			
550-173773-1	Chromium	0.21	0.20	5 (≤30)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		I-B-20211104	I-B-20211104-FD			
550-173776-1	Chromium	0.22	0.22	0 (≤30)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		PC-58-20211105	PC-58-20211105-FD5			
550-173858-1	Chromium	0.017	0.017	0 (≤30)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		ART-8-20211115	ART-8A-20211115-FD			
550-174309-1	Chromium	0.088	0.094	7 (≤30)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		I-D-20211208	I-D-20211208-FD			
550-175456-1	Chromium	4.1	4.1	0 (≤30)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		PC-150-20211215	PC-150-20211215-FD			
550-175896-1	Chromium	0.044	0.046	4 (≤30)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		E2-1-20211216	E2-1-20211216-FD			
550-175989-1	Chromium	0.033	0.029	13 (≤30)	-	-

IX. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in these SDGs.

Due to laboratory blank contamination, one manganese result was qualified as estimated in one sample.

NERT GWM Performance Sampling, July-December 2021
Chromium - Data Qualification Summary - SDGs 550-166607-1, 550-166608-1, 550-166890-1, 550-166991-1, 550-167061-1, 550-167062-1, 550-167219-1, 550-168267-1, 550-168668-1, 550-168669-1, 550-168851-1, 550-168852-1, 550-168955-1, 550-168958-1, 550-169062-1, 550-169157-1, 550-169158-1, 550-169252-1, 550-169253-1, 550-169352-1, 550-170282-1, 550-170283-1, 550-170388-1, 550-170535-1, 550-170634-1, 550-170729-1, 550-170730-1, 550-171878-1, 550-172256-1, 550-172261-1, 550-172353-1, 550-172355-1, 550-172460-1, 550-172463-1, 550-173430-1, 550-173530-1, 550-173618-1, 550-173631-1, 550-173773-1, 550-173775-1, 550-173776-1, 550-173858-1, 550-174110-1, 550-174306-1, 550-174309-1, 550-174471-1, 550-175455-1, 550-175456-1, 550-175748-1, 550-175896-1, 550-175897-1, 550-175989-1

No Sample Data Qualified in these SDGs

NERT GWM Performance Sampling, July-December 2021
Chromium - Laboratory Blank Data Qualification Summary - SDGs 550-166607-1, 550-166608-1, 550-166890-1, 550-166991-1, 550-167061-1, 550-167062-1, 550-167219-1, 550-168267-1, 550-168668-1, 550-168669-1, 550-168851-1, 550-168852-1, 550-168955-1, 550-168958-1, 550-169062-1, 550-169157-1, 550-169158-1, 550-169252-1, 550-169253-1, 550-169352-1, 550-170282-1, 550-170283-1, 550-170388-1, 550-170535-1, 550-170634-1, 550-170729-1, 550-170730-1, 550-171878-1, 550-172256-1, 550-172261-1, 550-172353-1, 550-172355-1, 550-172460-1, 550-172463-1, 550-173430-1, 550-173530-1, 550-173618-1, 550-173631-1, 550-173773-1, 550-173775-1, 550-173776-1, 550-173858-1, 550-174110-1, 550-174306-1, 550-174309-1, 550-174471-1, 550-175455-1, 550-175456-1, 550-175748-1, 550-175896-1, 550-175897-1, 550-175989-1

SDG	Sample	Analyte	Reported Concentration	Modified Final Concentration	A or P	Code
550-169253-1	M-7B-20210818	Manganese	0.0098 mg/L	0.0098J mg/L	A	bl

NERT GWM Performance Sampling, July--December 2021
Chromium - Field Blank Data Qualification Summary - SDGs 550-166607-1, 550-166608-1, 550-166890-1, 550-166991-1, 550-167061-1, 550-167062-1, 550-167219-1, 550-168267-1, 550-168668-1, 550-168669-1, 550-168851-1, 550-168852-1, 550-168955-1, 550-168958-1, 550-169062-1, 550-169157-1, 550-169158-1, 550-169252-1, 550-169253-1, 550-169352-1, 550-170282-1, 550-170283-1, 550-170388-1, 550-170535-1, 550-170634-1, 550-170729-1, 550-170730-1, 550-171878-1, 550-172256-1, 550-172261-1, 550-172353-1, 550-172355-1, 550-172460-1, 550-172463-1, 550-173430-1, 550-173530-1, 550-173618-1, 550-173631-1, 550-173773-1, 550-173775-1, 550-173776-1, 550-173858-1, 550-174110-1, 550-174306-1, 550-174309-1, 550-174471-1, 550-175455-1, 550-175456-1, 550-175748-1, 550-175896-1, 550-175897-1, 550-175989-1

No Sample Data Qualified in these SDGs

ATTACHMENT B

Wet Chemistry Data Validation Report

Ammonia as Nitrogen by Environmental Protection Agency (EPA) Method 350.1
Chlorate by EPA Method 300.1B
Chloride, Nitrate as Nitrogen, Nitrite as Nitrogen, and Sulfate (Anions) by EPA Method 300.0
Conductivity by Standard Method 2510B
Field pH
Hexavalent Chromium by EPA Method 218.6
Nitrate as Nitrogen by EPA Method 300.0
Nitrate/Nitrite as Nitrogen by Calculation
Perchlorate by EPA Method 314.0
Total Dissolved Solids by Standard Method 2540C
Total Inorganic Nitrogen by Calculation
Total Recoverable Phenolics by EPA Method 420.4
Total Organic Carbon by Standard Method 5310B
Toxic Organic Halides by EPA SW 846 Method 9020B

I. Sample Receipt and Technical Holding Times

All samples were received in good condition.

All technical holding time requirements were met with the following exceptions:

SDG	Sample	Analyte	Total Time From Sample Collection Until Analysis	Required Holding Time From Sample Collection Until Analysis	Flag	A or P
550-166608-1	I-O-2021 07 07DL	Nitrate as N	156 hours	48 hours	J- (all detects)	A
550-166991-1	E2-2 – 2021 07 13DL	Nitrate as N	53 hours	48 hours	J- (all detects)	A
550-170282-1	I-M-2021 09 08DL I-D-2021 09 08DL	Nitrate as N	62 hours	48 hours	J- (all detects)	P
550-170283-1	I-AB-2021 09 08DL	Nitrate as N	61 hours	48 hours	J- (all detects)	P
550-170535-1	E1-3-2021 09 13	Nitrate as N	848 hours	48 hours	J- (all detects)	P
550-171878-1	E1-3-2021 10 06RE1 E1-3-2021 10 06RE2	Nitrate as N	899 hours	48 hours	J- (all detects)	A
550-171878-1	E2-5-2021 10 06RE	Nitrate as N	922 hours	48 hours	J- (all detects)	A
550-171878-1	E2-5-2021 10 06-FDRE	Nitrate as N	923 hours	48 hours	J- (all detects)	A
550-173776-1	I-R-20211104 I-R-20211104RE	Perchlorate	34 days	28 days	J- (all detects)	P

SDG	Sample	Analyte	Total Time From Sample Collection Until Analysis	Required Holding Time From Sample Collection Until Analysis	Flag	A or P
550-174397-1	LVW3.5-6-1.7-20211115 LVW0.55-0.9-20211115 LVW0.55-0.9-20211115-FD LVW0.55-20211115-FB	Total dissolved solids	8 days	7 days	J- (all detects) UJ (all non-detects)	P
550-175989-1	E2-2-20211216RE E2-3-20211216RE E2-1-20211216-FDRE	Total dissolved solids	13 days	7 days	J- (all detects)	P

II. Laboratory Blanks

Laboratory blanks were analyzed as required by the methods. No contaminants were found in the laboratory blanks.

III. Field Blanks

Samples I-X-2021 07 07-EB (from SDG 550-166607-1), E1-3 - 2021 07 13-EB (from SDG 550-166991-1), ART-9 - 2021 07 14-EB (from SDG 550-167061-1), PC-120 - 2021 07 14-EB (from SDG 550-167062-1), E2-2 - 2021 08 11-EB (from SDG 550-168851-1), I-Z - 2021 08 11-EB (from SDG 550-168852-1), PC-133 - 2021 08 12-EB (from SDG 550-168955-1), ART-1A - 2021 08 12-EB (from SDG 550-168958-1), M-11-20210819-EB4 (from SDG 550-169352-1), I-AB-2021 09 08-EB (from SDG 550-170283-1), E2-4-2021 09 13-EB (from SDG 550-170535-1), ART-3A-2021 09 15-EB (from SDG 550-170729-1), PC-115R-2021 09 15-EB (from SDG 550-170730-1), E1-1-2021 10 06-EB (from SDG 550-171878-1), I-AD-2021 10 13-EB (from SDG 550-172353-1), PC-117-2021 10 14-EB (from SDG 550-172460-1), ART-7B-2021 10 14-EB (from SDG 550-172463-1), PC-155B-20211101-EB5 (from SDG 550-173430-1), PC-122-20211102-EB6 (from SDG 550-173530-1), PC-126-20211103-EB7 (from SDG 550-173618-1), E1-3-20211103-EB (from SDG 550-173631-1), M-80-20211104-EB4 and PC-60-20211104-EB8 (both from SDG 550-173773-1), I-C-20211104-EB (from SDG 550-173775-1), M-70-20211105-EB9 (from SDG 550-173858-1), PC-119-20211115-EB (from SDG 550-174306-1), ART-9-20211115-EB (from SDG 550-174309-1), I-E-20211208-EB (from SDG 550-175456-1), sample ART-1A-20211215-EB (from SDG 550-175896-1), PC-121-20211215-EB (from SDG 550-175897-1), and E2-2-20211216-EB (from SDG 550-175989-1) were identified as equipment blanks. No contaminants were found with the following exceptions:

SDG	Blank ID	Collection Date	Analyte	Concentration	Associated Samples
550-166607-1	I-X-2021 07 07-EB	07/13/21	Total dissolved solids Perchlorate	94 mg/L 4.7 ug/L	I-X-2021 07 07
550-166991-1	E1-3 - 2021 07 13-EB	07/13/21	Nitrate as N Perchlorate	0.020 mg/L 1.0 ug/L	E1-3 - 2021 07 13

SDG	Blank ID	Collection Date	Analyte	Concentration	Associated Samples
550-167062-1	PC-120 - 2021 07 14-EB	07/14/21	Nitrate as N	0.046 mg/L	PC-120 - 2021 07 14
550-168851-1	E2-2 - 2021 08 11-EB	08/11/21	Perchlorate	0.97 ug/L	E2-2 - 2021 08 11
550-173530-1	PC-122-20211102-EB6	11/03/21	Perchlorate	0.95 ug/L	PC-122-20211102
550-173631-1	E1-3-20211103-EB	11/03/21	Perchlorate	0.40 ug/L	E1-3-20211103
550-173773-1	M-80-20211104-EB4	11/04/21	Chlorate	19 ug/L	M-80-20211104
550-174306-1	PC-119-20211115-EB	11/15/21	Nitrate as N	0.047 mg/L	PC-119-20211115
550-174309-1	ART-9-20211115-EB	11/15/21	Nitrate as N	0.047 mg/L	ART-9-20211115

Samples LVW6.05-20210713-FB and LVW0.55-20210713-FB (both from SDG 550-167079-1), LVW6.05-20210806-FB, LVW0.55-20210805-FB (both from SDG 550-168583-1), M-12A-20210819-FB4 (from SDG 550-169352-1), LVW6.05-20210902-FB and LVW0.55-20210902-FB (both from SDG 550-170104-1), LVW6.05-20211011-FB and LVW0.55-20211011-FB (both from SDG 550-172255-1), ARP-7-20211102-FB6 and PC-91-20211102-FB5 (both from SDG 550-173530-1), M-67-20211103-FB7 and PC-129-20211103-FB8 (both from SDG 550-173618-1), M-95-20211104-FB4 (from SDG 550-173773-1), M-57A-20211105-FB9 (from SDG 550-173858-1), LVW6.05-20211116-FB and LVW0.55-20211115-FB (both from SDG 550-174397-1), and LVW6.05-20211207-FB and LVW0.55-20211208-FB (both from SDG 550-175450-1) were identified as field blanks. No contaminants were found with the following exceptions:

SDG	Blank ID	Collection Date	Analyte	Concentration	Associated Samples
550-173618-1	M-67-20211103-FB7	11/03/21	Chlorate	19 ug/L	M-67-20211103
550-173618-1	PC-129-20211103-FB8	11/03/21	Perchlorate	0.40 ug/L	PC-129-20211103

Sample concentrations were compared to concentrations detected in the field blanks. The sample concentrations were either not detected or were significantly greater than the concentrations found in the associated field blanks.

IV. Surrogates

Surrogates were added to all samples as required by Method 300.1B. All surrogate recoveries (%R) were within QC limits.

V. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) sample analysis was performed on an associated project sample. Percent recoveries (%R) were within QC limits with the following exceptions:

SDG	Spike ID (Associated Samples)	Analyte	MS (%R) (Limits)	MSD (%R) (Limits)	Flag	A or P
550-166607-1	I-C-2021 07 07MS/MSD (I-C-2021 07 07 I-F-2021 07 07 I-X-2021 07 07 I-N-2021 07 07 I-E-2021 07 07 I-M-2021 07 07 I-D-2021 07 07)	Hexavalent chromium	114 (90-110)	-	J+ (all detects)	A
550-166608-1	I-C-2021 07 07MS/MSD (All samples in SDG 550-166608-1)	Hexavalent chromium	114 (90-110)	-	J+ (all detects)	A
550-166991-1	E1-1 - 2021 07 13MS/MSD (E1-1 - 2021 07 13 E1-2 - 2021 07 13 E1-3 - 2021 07 13 E2-3 - 2021 07 13 E2-4 - 2021 07 13)	Chlorate	138 (75-125)	156 (75-125)	J+ (all detects)	A
550-166991-1	E2-1 - 2021 07 13MS/MSD (E2-1 - 2021 07 13 E2-2 - 2021 07 13)	Chlorate	138 (75-125)	-	J+ (all detects)	A
550-168669-1	I-Q - 2021 08 09MS/MSD (All samples in SDG 550-168669-1)	Chlorate	212 (75-125)	69 (75-125)	J (all detects)	A
550-168851-1	E2-1 - 2021 08 11-FDMS/MSD (E1-2 - 2021 08 11 E1-3 - 2021 08 11 E2-1 - 2021 08 11 E2-2 - 2021 08 11 E2-3 - 2021 08 11 E2-4 - 2021 08 11 E2-5 - 2021 08 11 E2-1 - 2021 08 11-FD)	Chlorate	36 (75-125)	-	J- (all detects)	A
550-168852-1	I-I - 2021 08 11MS/MSD (I-I - 2021 08 11# I-V - 2021 08 11)#	Hexavalent chromium	111 (90-110)	-	J+ (all detects)	A
550-168958-1	PC-150 - 2021 08 12MS/MSD (PC-150 - 2021 08 12)	Hexavalent chromium	-	112 (90-110)	J+ (all detects)	A
550-168958-1	PC-150 - 2021 08 12MS/MSD (PC-150 - 2021 08 12-FD)	Hexavalent chromium	-	112 (90-110)	NA	-

SDG	Spike ID (Associated Samples)	Analyte	MS (%R) (Limits)	MSD (%R) (Limits)	Flag	A or P
550-168958-1	PC-150 - 2021 08 12MS/MSD (ART-8A - 2021 08 12# ART-9 - 2021 08 12# PC-150 - 2021 08 12# PC-150 - 2021 08 12-FD)#	Chlorate	129 (75-125)	-	J+ (all detects)	A
550-169062-1	I-AB - 2021 08 16MS/MSD (All samples in SDG 550-169062-1)	Hexavalent chromium Chlorate	- -	111 (90-110) 129 (75-125)	J+ (all detects) J+ (all detects)	A
550-170283-1	I-R-2021 09 08MS/MSD (I-AA-2021 09 08 I-AB-2021 09 08 I-B-2021 09 08 I-R-2021 09 08 I-Y-2021 09 08 I-L-2021 09 08 I-S-2021 09 08 I-AR-2021 09 08 I-AA-2021 09 08-FD)	Hexavalent chromium	87 (90-110)	113 (90-110)	J (all detects)	A
550-170283-1	I-AB-2021 09 08MS/MSD (I-AB-2021 09 08 I-B-2021 09 08 I-R-2021 09 08 I-Y-2021 09 08 I-L-2021 09 08 I-S-2021 09 08 I-AR-2021 09 08 I-AA-2021 09 08-FD)	Chlorate	-	127 (75-125)	J+ (all detects)	A
550-170388-1	I-Q-2021 09 09MS/MSD (All samples in SDG 550-170388-1)	Nitrate as N	59 (80-120)	74 (80-120)	J- (all detects)	A
550-170388-1	I-T-2021 09 09MS/MSD (I-T-2021 09 09 I-U-2021 09 09 I-H-2021 09 09 I-P-2021 09 09 I-W-2021 09 09 I-O-2021 09 09)	Chlorate	139 (75-125)	126 (75-12)	J+ (all detects)	A
550-170535-1	E2-1-2021 09 13MS/MSD (E1-1-2021 09 13 E1-2-2021 09 13 E1-3-2021 09 13 E2-1-2021 09 13 E2-2-2021 09 13 E2-3-2021 09 13 E2-4-2021 09 13 E2-5-2021 09 13 E2-3-2021 09 13-FD)	Chlorate	132 (75-125)	127 (75-125)	J+ (all detects)	A

Relative percent differences (RPD) were within QC limits with the following exceptions:

SDG	Spike ID (Associated Samples)	Analyte	RPD (Limits)	Flag	A or P
550-168669-1	I-Q - 2021 08 09MS/MSD (All samples in SDG 550-168669-1)	Chlorate	27 (≤25)	J (all detects)	A

VI. Duplicate Sample Analysis

Duplicate (DUP) sample analysis was performed on an associated project sample. Results were within QC limits.

VII. Laboratory Control Samples

Laboratory control samples (LCS) and laboratory control samples duplicates (LCSD) were analyzed as required by the methods. Percent recoveries (%R) were within QC limits. Relative percent differences (RPD) were within QC limits.

VIII. Field Duplicates

Samples I-W-2021 07 07 and I-W-2021 07 07-FD (both from SDG 550-166608-1), samples E1-2 - 2021 07 13 and E1-2 - 2021 07 13-FD (both from SDG 550-166991-1), samples ART-8A - 2021 07 14 and ART-8A - 2021 07 14-FD (both from SDG 550-167061-1), samples PC-119 - 2021 07 14 and PC-119 - 2021 07 14-FD (both from SDG 550-167062-1), samples LVW0.55-0.9-20210713 and LVW0.55-0.9-20210713-FD (both from SDG 550-167079-1), samples LVW7.2-1.0-20210713 and LVW7.2-1.0-20210713-FD (both from SDG 550-167079-1), sample LVW6.05-0.7-20210713 (from SDG 550-167079-1), sample LVW6.05-0.7-20210713-FD (from SDG 550-167079-2), samples LVW7.2-1.0-20210806 and LVW7.2-1.0-20210806-FD (both from SDG 550-168583-1), samples LVW6.05-0.7-20210806 and LVW6.05-0.7-20210806-FD (both from SDG 550-168583-1), samples LVW0.55-0.9-20210805 and LVW0.55-0.9-20210805-FD (both from SDG 550-168583-1), samples I-Y - 2021 08 09 and I-Y - 2021 08 09-FD (both from SDG 550-168668-1), samples E2-1 - 2021 08 11 and E2-1 - 2021 08 11-FD (both from SDG 550-168851-1), samples PC-121 - 2021 08 12 and PC-121 - 2021 08 12-FD (both from SDG 550-168955-1), samples PC-150 - 2021 08 12 and PC-150 - 2021 08 12-FD (both from SDG 550-168958-1), samples M-95 – 20210817 and M-95 - 20210817-FD4 (both from SDG 550-169157-1), samples LVW7.2-1.1-20210902 and LVW7.2-1.1-20210902-FD (both from SDG 550-170104-1), samples LVW6.05-1.2-20210902 and LVW6.05-1.2-20210902-FD (both from SDG 550-170104-1), samples LVW0.55-1.2-20210902 and LVW0.55-1.2-20210902-FD (both from SDG 550-170104-1), samples I-AA-2021 09 08 and I-AA-2021 09 08-FD (both from SDG 550-170283-1), samples E2-3-2021 09 13 and E2-3-2021 09 13-FD (both from SDG 550-170535-1), samples ART-2/2A-2021 09 15 and ART-2/2A-2021 09 15-FD (both from SDG 550-170729-1), samples PC-99R2/R3-2021 09 15 and PC-99R2/R3-2021 09 15-FD (both from SDG 550-170730-1), samples E2-5-2021 10 06 and E2-5-2021 10 06-FD (both from SDG 550-171878-1), samples E2-5-2021 10 06RE and E2-5-2021 10 06-FDRE (both from SDG 550-171878-1), samples LVW7.2-0.9-20211012 and LVW7.2-0.9-20211012-FD

(both from SDG 550-172255-1), samples LVW6.05-0.9-20211011 and LVW6.05-0.9-20211011-FD (both from SDG 550-172255-1), samples LVW0.55-1.0-20211011 and LVW0.55-1.0-20211011-FD (both from SDG 550-172255-1), samples I-AC-2021 10 13 and I-AC-2021 10 13-FD (both from SDG 550-172353-1), samples PC-116R-2021 10 14 and PC-116R-2021 10 14-FD (both from SDG 550-172460-1), samples ART-4-2021 10 14 and ART-4-2021 10 14-FD (both from SDG 550-172463-1), samples M-11-20211102 and M-11-20211102-FD4 (both from SDG 550-173530-1), samples PC-130-20211103 and PC-130-20211103-FD6 (both from SDG 550-173618-1), samples ARP-1-20211103 and ARP-1-20211103-FD7 (both from SDG 550-173618-1), samples E1-2-20211103 and E1-2-20211103-FD (both from SDG 550-173631-1), samples M-83-20211104 and M-83-20211104-FD8 (both from SDG 550-173773-1), samples I-B-20211104 and I-B-20211104-FD (both from SDG 550-173776-1), samples PC-58-20211105 and PC-58-20211105-FD5 (both from SDG 550-173858-1), samples PC-59-20211105 and PC-59-20211105-FD9 (both from SDG 550-173858-1), samples PC-118-20211115 and PC-118-20211115-FD (both from SDG 550-174306-1), samples ART-8-20211115 and ART-8A-20211115-FD (both from SDG 550-174309-1), samples LVW7.2-1.0-20211116 and LVW7.2-1.0-20211116-FD (both from SDG 550-174397-1), samples LVW6.05-0.8-20211116 and LVW6.05-0.8-20211116-FD (both from SDG 550-174397-1), samples LVW0.55-0.9-20211115 and LVW0.55-0.9-20211115-FD (both from SDG 550-174397-1), samples LVW7.2-1.0-20211207 and LVW7.2-1.0-20211207-FD (both from SDG 550-175450-1), samples LVW6.05-1.0-20211207 and LVW6.05-1.0-20211207-FD (both from SDG 550-175450-1), samples LVW0.55-1.2-20211208 and LVW0.55-1.2-20211208-FD (both from SDG 550-175450-1), samples I-D-20211208 and I-D-20211208-FD (both from SDG 550-175456-1), samples PC-150-20211215 and PC-150-20211215-FD (both from SDG 550-175896-1), samples PC-120-20211215 and PC-120-20211215-FD (both from SDG 550-175897-1), and samples E2-1-20211216 and E2-1-20211216-FD (both from SDG 550-175989-1) were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		I-W-2021 07 07	I-W-2021 07 07-FD			
550-166608-1	Hexavalent chromium	12000 ug/L	12000 ug/L	0 (≤30)	-	-
	Nitrate as N	52 mg/L	56 mg/L	7 (≤30)	-	-
	Chlorate	2100000 ug/L	2000000 ug/L	5 (≤30)	-	-
	Perchlorate	580000	610000 ug/L	5 (≤30)	-	-
	Total dissolved solids	7600 mg/L	7500 mg/L	1 (≤30)	-	-
	Field pH	7.68 SU	7.68 SU	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		E1-2 - 2021 07 13	E1-2 - 2021 07 13-FD			
550-166991-1	Hexavalent chromium	470 ug/L	480 ug/L	2 (≤30)	-	-
	Nitrate as N	86 mg/L	82 mg/L	5 (≤30)	-	-
	Chlorate	150000 ug/L	150000 ug/L	0 (≤30)	-	-
	Perchlorate	970000 ug/L	990000 ug/L	2 (≤30)	-	-
	Total dissolved solids	3500 mg/L	3900 mg/L	11 (≤30)	-	-
	pH	6.69 SU	6.69 SU	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		ART-8A - 2021 07 14	ART-8A - 2021 07 14-FD			
550-167061-1	Hexavalent chromium	79 ug/L	84 ug/L	6 (≤30)	-	-
	Nitrate as N	11 mg/L	7.5 mg/L	38 (≤30)	J (all detects)	A
	Chlorate	54000 ug/L	54000 ug/L	0 (≤30)	-	-
	Perchlorate	65000 ug/L	63000 ug/L	3 (≤30)	-	-
	Total dissolved solids	6600 mg/L	7200 mg/L	9 (≤30)	-	-
	pH	7.00 SU	7.01 SU	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		PC-119 - 2021 07 14	PC-119 - 2021 07 14-FD			
550-167062-1	Nitrate as N	0.078 mg/L	0.13 mg/L	50 (≤30)	J (all detects)	A
	Perchlorate	160 ug/L	160 ug/L	0 (≤30)	-	-
	Total dissolved solids	1200 mg/L	1300 mg/L	8 (≤30)	-	-
	Field pH	7.41 SU	7.40 SU	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		LVW0.55-0.9-20210713	LVW0.55-0.9-20210713-FD			
550-167079-1	Chlorate	190 ug/L	190 ug/L	0 (≤30)	-	-
	Perchlorate	37 ug/L	36 ug/L	3 (≤30)	-	-
	Total dissolved solids	1100 mg/L	1000 mg/L	10 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		LVW7.2-1.0-20210713	LVW7.2-1.0-20210713-FD			
550-167079-1	Chlorate	200 ug/L	190 ug/L	5 (≤30)	-	-
	Perchlorate	68 ug/L	66 ug/L	3 (≤30)	-	-
	Total dissolved solids	1200 mg/L	1000 mg/L	18 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		LVW6.05-0.7-20210713	LVW6.05-0.7-20210713-FD			
550-167079-1	Chlorate	190 ug/L	180 ug/L	5 (≤30)	-	-
	Perchlorate	72 ug/L	74 ug/L	3 (≤30)	-	-
	Total dissolved solids	1200 mg/L	1100 mg/L	9 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		LVW6.05-0.7-20210713	LVW6.05-0.7-20210713-FD			
550-167079-2	Chlorate	190 ug/L	180 ug/L	5 (≤30)	-	-
	Perchlorate	72 ug/L	74 ug/L	3 (≤30)	-	-
	Total dissolved solids	1200 mg/L	1100 mg/L	9 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		LVW7.2-1.0-20210806	LVW7.2-1.0-20210806-FD			
550-168583-1	Chlorate	170 ug/L	170 ug/L	0 (≤30)	-	-
	Perchlorate	0.47 ug/L	1.0U ug/L	200 (≤30)	NQ	-
	Total dissolved solids	1100 mg/L	1100 mg/L	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		LVW6.05-0.7-20210806	LVW6.05-0.7-20210806-FD			
550-168583-1	Chlorate	170 ug/L	160 ug/L	6 (≤30)	-	-
	Perchlorate	19 ug/L	19 ug/L	0 (≤30)	-	-
	Total dissolved solids	1200 mg/L	1100 mg/L	9 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		LVW0.55-0.9-20210805	LVW0.55-0.9-20210805-FD			
550-168583-1	Chlorate	230 ug/L	260 ug/L	12 (≤30)	-	-
	Perchlorate	47 ug/L	48 ug/L	2 (≤30)	-	-
550-168583-1	Total dissolved solids	1100 mg/L	1200 mg/L	9 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		I-Y - 2021 08 09	I-Y - 2021 08 09-FD			
550-168668-1	Hexavalent chromium	1700 ug/L	1600 ug/L	6 (≤30)	-	-
	Nitrate as N	62 mg/L	61 mg/L	2 (≤30)	-	-
	Chlorate	360000 ug/L	360000 ug/L	0 (≤30)	-	-
	Perchlorate	400000 ug/L	410000 ug/L	2 (≤30)	-	-
	Total dissolved solids	4700 mg/L	4500 mg/L	4 (≤30)	-	-
	Field pH	7.31 SU	7.31 SU	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		E2-1 - 2021 08 11	E2-1 - 2021 08 11-FD			
550-168851-1	Hexavalent chromium	23 ug/L	24 ug/L	4 (≤30)	-	-
	Nitrate as N	20 mg/L	19 mg/L	5 (≤30)	-	-
	Chlorate	10000 ug/L	15000 ug/L	40 (≤30)	J (all detects)	A
	Perchlorate	110000 ug/L	86000 ug/L	24 (≤30)	-	-
	Total dissolved solids	2900 mg/L	2800 mg/L	4 (≤30)	-	-
	Field pH	6.89 SU	6.88 SU	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		PC-121 - 2021 08 12	PC-121 - 2021 08 12-FD			
550-168955-1	Total dissolved solids	1500 mg/L	1500 mg/L	0 (≤30)	-	-
	Field pH	7.45 SU	7.45 SU	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		PC-150 - 2021 08 12	PC-150 - 2021 08 12-FD			
550-168958-1	Hexavalent chromium	40 ug/L	1.0U ug/L	200 (≤30)	NQ	-
	Nitrate as N	11 mg/L	11 mg/L	0 (≤30)	-	-
	Chlorate	91000 ug/L	110000 ug/L	19 (≤30)	-	-
	Perchlorate	49000 ug/L	49000 ug/L	0 (≤30)	-	-
	Total dissolved solids	5500 mg/L	6100 mg/L	10 (≤30)	-	-
	Field pH	7.29 SU	7.29 SU	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		M-95 - 20210817	M-95 - 20210817-FD4			
550-169157-1	Hexavalent chromium	300 ug/L	300 ug/L	0 (≤30)	-	-
	Perchlorate	130000 ug/L	130000 ug/L	0 (≤30)	-	-
	Total dissolved solids	5500 mg/L	6100 mg/L	10 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		LVW7.2-1.1-20210902	LVW7.2-1.1-20210902-FD			
550-170104-1	Chlorate	160 ug/L	150 ug/L	6 (≤30)	-	-
	Perchlorate	1.7 ug/L	1.6 ug/L	6 (≤30)	-	-
	Total dissolved solids	1000 mg/L	1000 mg/L	0 (≤30)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		LVW6.05-1.2-20210902	LVW6.05-1.2-20210902-FD			
550-170104-1	Chlorate	170 ug/L	170 ug/L	0 (≤30)	-	-
	Perchlorate	7.5 ug/L	7.5 ug/L	0 (≤30)	-	-
	Total dissolved solids	1100 mg/L	940 mg/L	16 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		LVW0.55-1.2-20210902	LVW0.55-1.2-20210902-FD			
550-170104-1	Chlorate	180 ug/L	180 ug/L	0 (≤30)	-	-
	Perchlorate	44 ug/L	44 ug/L	0 (≤30)	-	-
	Total dissolved solids	1300 mg/L	1400 mg/L	7 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		I-AA-2021 09 08	I-AA-2021 09 08-FD			
550-170283-1	Hexavalent chromium	56 ug/L	56 ug/L	0 (≤30)	-	-
	Nitrate as N	14 mg/L	13 mg/L	7 (≤30)	-	-
	Chlorate	19000 ug/L	19000 ug/L	0 (≤30)	-	-
	Perchlorate	31000 ug/L	31000 ug/L	0 (≤30)	-	-
	Total dissolved solids	2900 mg/L	2900 mg/L	0 (≤30)	-	-
	Field pH	7.01 SU	7.00 SU	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		E2-3-2021 09 13	E2-3-2021 09 13-FD			
550-170535-1	Hexavalent chromium	74 ug/L	84 ug/L	13 (≤30)	-	-
	Nitrate as N	77 mg/L	79 mg/L	3 (≤30)	-	-
	Chlorate	20000 ug/L	20000 ug/L	0 (≤30)	-	-
	Perchlorate	980000 ug/L	1000000 ug/L	2 (≤30)	-	-
	Total dissolved solids	3200 mg/L	3600 mg/L	12 (≤30)	-	-
	Field pH	7.01 SU	7.01 SU	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		ART-2/2A-2021 09 15	ART-2/2A-2021 09 15-FD			
550-170729-1	Hexavalent chromium	3.3 ug/L	3.4 ug/L	3 (≤30)	-	-
	Nitrate as N	1.6 mg/L	2.6 mg/L	48 (≤30)	J (all detects)	A
	Chlorate	6300 ug/L	6100 ug/L	3 (≤30)	-	-
	Perchlorate	9900 ug/L	9800 ug/L	1 (≤30)	-	-
	Total dissolved solids	8300 mg/L	7600 mg/L	9 (≤30)	-	-
	Field pH	6.78 SU	6.78 SU	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		PC-99R2/R3-2021 09 15	PC-99R2/R3-2021 09 15-FD			
550-170730-1	Nitrate as N	6.5 mg/L	6.6 mg/L	2 (≤30)	-	-
	Chlorate	11000 ug/L	12000 ug/L	9 (≤30)	-	-
	Perchlorate	17000 ug/L	17000 ug/L	0 (≤30)	-	-
	Total dissolved solids	2800 mg/L	2900 mg/L	4 (≤30)	-	-
	Field pH	7.45 SU	7.45 SU	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		E2-5-2021 10 06	E2-5-2021 10 06-FD			
550-171878-1	Hexavalent chromium	170 ug/L	170	0 (≤30)	-	-
	Nitrate as N	100 mg/L	120	18 (≤30)	-	-
	Chlorate	50000 ug/L	51000	2 (≤30)	-	-
	Perchlorate	140000 ug/L	140000	0 (≤30)	-	-
	Total dissolved solids	4700 mg/L	4100	14 (≤30)	-	-
	Field pH	7.13 SU	7.13 SU	0 (≤30)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		E2-5-2021 10 06RE	E2-5-2021 10 06-FDRE			
550-171878-1	Nitrate as N	120	120	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		LVW7.2-0.9-20211012	LVW7.2-0.9-20211012-FD			
550-172255-1	Chlorate	130 ug/L	140 ug/L	7 (≤30)	-	-
	Total dissolved solids	1200 mg/L	1100 mg/L	9 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		LVW6.05-0.9-20211011	LVW6.05-0.9-20211011-FD			
550-172255-1	Chlorate	120 ug/L	120 ug/L	0 (≤30)	-	-
	Perchlorate	13 ug/L	12 ug/L	8 (≤30)	-	-
	Total dissolved solids	1000 mg/L	1000 mg/L	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		LVW0.55-1.0-20211011	LVW0.55-1.0-20211011-FD			
550-172255-1	Chlorate	180 ug/L	180 ug/L	0 (≤30)	-	-
	Perchlorate	48 ug/L	44 ug/L	9 (≤30)	-	-
	Total dissolved solids	1200 mg/L	1400 mg/L	15 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		I-AC-2021 10 13	I-AC-2021 10 13-FD			
550-172353-1	Hexavalent chromium	2000 ug/L	2100 ug/L	5 (≤30)	-	-
	Nitrate as N	12 mg/L	12 mg/L	0 (≤30)	-	-
	Chlorate	550000 ug/L	530000 ug/L	4 (≤30)	-	-
	Perchlorate	200000 ug/L	230000 ug/L	14 (≤30)	-	-
	Total dissolved solids	5300 mg/L	5000 mg/L	6 (≤30)	-	-
	Field pH	7.35 SU	7.35 SU	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		PC-116R-2021 10 14	PC-116R-2021 10 14-FD			
550-172353-1	Hexavalent chromium	4.9 ug/L	4.8 ug/L	2 (≤30)	-	-
	Nitrate as N	6.5 mg/L	6.4 mg/L	2 (≤30)	-	-
	Chlorate	14000 ug/L	15000 ug/L	7 (≤30)	-	-
	Perchlorate	15000 ug/L	15000 ug/L	0 (≤30)	-	-
	Total dissolved solids	2800 mg/L	2800 mg/L	0 (≤30)	-	-
	Field pH	7.36 SU	7.36 SU	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		ART-4-2021 10 14	ART-4-2021 10 14-FD			
550-172353-1	Hexavalent chromium	130 ug/L	120 ug/L	8 (≤30)	-	-
	Nitrate as N	13 mg/L	13 mg/L	0 (≤30)	-	-
	Chlorate	130000 ug/L	120000 ug/L	8 (≤30)	-	-
	Perchlorate	120000 ug/L	130000 ug/L	8 (≤30)	-	-
	Total dissolved solids	4500 mg/L	4500 mg/L	0 (≤30)	-	-
	Field pH	6.93 SU	6.93 SU	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		M-11-20211102	M-11-20211102-FD4			
550-173530-1	Total dissolved solids	7600 mg/L	7200 mg/L	5 (≤30)	-	-
	Nitrate as N	8.2 mg/L	8.3 mg/L	1 (≤30)	-	-
	Chlorate	540000 ug/L	560000 ug/L	4 (≤30)	-	-
	Perchlorate	62000 ug/L	63000 ug/L	2 (≤30)	-	-
	Hexavalent chromium	940 ug/L	1000 ug/L	6 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		PC-130-20211103	PC-130-20211103-FD6			
550-173618-1	Total dissolved solids	7000 mg/L	6800 mg/L	3 (≤30)	-	-
	Nitrate as N	34 mg/L	34 mg/L	0 (≤30)	-	-
	Chlorate	300000 ug/L	290000 ug/L	3 (≤30)	-	-
	Perchlorate	260000 ug/L	260000 ug/L	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		ARP-1-20211103	ARP-1-20211103-FD7			
550-173618-1	Total dissolved solids	3900 mg/L	4000 mg/L	3 (≤30)	-	-
	Nitrate as N	9.3 mg/L	9.3 mg/L	0 (≤30)	-	-
	Chlorate	6700 ug/L	6600 ug/L	2 (≤30)	-	-
	Perchlorate	39000 ug/L	39000 ug/L	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		E1-2-20211103	E1-2-20211103-FD			
550-173631-1	Total dissolved solids	4200 mg/L	3600 mg/L	15 (≤30)	-	-
	Nitrate as N	82 mg/L	78 mg/L	5 (≤30)	-	-
	Chlorate	210000 ug/L	190000 ug/L	10 (≤30)	-	-
	Perchlorate	1400000 ug/L	1100000 ug/L	24 (≤30)	-	-
	Hexavalent chromium	480 ug/L	480 ug/L	0 (≤30)	-	-
	Field pH	7.12 SU	7.11 SU	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		M-83-20211104	M-83-20211104-FD8			
550-173773-1	Total dissolved solids	900 mg/L	1000 mg/L	11 (≤30)	-	-
	Nitrate as N	6.7 mg/L	6.8 mg/L	1 (≤30)	-	-
	Chlorate	52000 ug/L	51000 ug/L	2 (≤30)	-	-
	Perchlorate	57000 ug/L	56000 ug/L	2 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		I-B-20211104	I-B-20211104-FD			
550-173776-1	Total dissolved solids	2700 mg/L	3100 mg/L	14 (≤30)	-	-
	Nitrate as N	54 mg/L	57 mg/L	5 (≤30)	-	-
	Chlorate	59000 ug/L	61000 ug/L	3 (≤30)	-	-
	Perchlorate	290000 ug/L	290000 ug/L	0 (≤30)	-	-
	Hexavalent chromium	220 ug/L	220 ug/L	0 (≤30)	-	-
	Field pH	6.82 SU	6.82 SU	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		PC-58-20211105	PC-58-20211105-FD5			
550-173858-1	Total dissolved solids	2300 mg/L	1900 mg/L	19 (≤30)	-	-
	Nitrate as N	9.7 mg/L	9.7 mg/L	0 (≤30)	-	-
	Chlorate	59000 ug/L	58000 ug/L	2 (≤30)	-	-
	Perchlorate	720 ug/L	780 ug/L	8 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		PC-59-20211105	PC-59-20211105-FD9			
550-173858-1	Total dissolved solids	1600 mg/L	1500 mg/L	6 (≤30)	-	-
	Nitrate as N	0.79 mg/L	0.81 mg/L	3 (≤30)	-	-
	Chlorate	55 ug/L	54 ug/L	2 (≤30)	-	-
	Perchlorate	250 ug/L	230 ug/L	8 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		PC-118-20211115	PC-118-20211115-FD			
550-174306-1	Total dissolved solids	1700 mg/L	1700 mg/L	0 (≤30)	-	-
	Field pH	7.18 SU	7.19 SU	0 (≤30)	-	-
	Nitrate as N	0.66 mg/L	0.64 mg/L	3 (≤30)	-	-
	Chlorate	420 ug/L	430 ug/L	2 (≤30)	-	-
	Perchlorate	1200 ug/L	1200 ug/L	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		ART-8-20211115	ART-8A-20211115-FD			
550-174309-1	Total dissolved solids	9600 mg/L	9700 mg/L	1 (≤30)	-	-
	Field pH	7.36 SU	7.11 SU	3 (≤30)	-	-
	Nitrate as N	11 mg/L	11 mg/L	0 (≤30)	-	-
	Chlorate	82000 ug/L	84000 ug/L	2 (≤30)	-	-
	Perchlorate	61000 ug/L	60000 ug/L	2 (≤30)	-	-
	Hexavalent chromium	69 ug/L	48 ug/L	36 (≤30)	J (all detects)	A

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		LVW7.2-1.0-20211116	LVW7.2-1.0-20211116-FD			
550-174397-1	Total dissolved solids	1000 mg/L	980 mg/L	2 (≤30)	-	-
	Chlorate	160 ug/L	170 ug/L	6 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		LVW6.05-0.8-20211116	LVW6.05-0.8-20211116-FD			
550-174397-1	Total dissolved solids	1200 mg/L	1300 mg/L	8 (≤30)	-	-
	Chlorate	150 ug/L	150 ug/L	0 (≤30)	-	-
	Perchlorate	23 ug/L	23 ug/L	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		LVW0.55-0.9-20211115	LVW0.55-0.9-20211115-FD			
550-174397-1	Total dissolved solids	1100 mg/L	1200 mg/L	9 (≤30)	-	-
	Chlorate	140 ug/L	140 ug/L	0 (≤30)	-	-
	Perchlorate	39 ug/L	40 ug/L	3 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		LVW7.2-1.0-20211207	LVW7.2-1.0-20211207-FD			
550-175450-1	Chlorate	88 ug/L	87 ug/L	1 (≤30)	-	-
	Perchlorate	1.3 ug/L	1.4 ug/L	7 (≤30)	-	-
	Total dissolved solids	1300 mg/L	1300 mg/L	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		LVW6.05-1.0-20211207	LVW6.05-1.0-20211207-FD			
550-175450-1	Chlorate	93 ug/L	90 ug/L	3 (≤30)	-	-
	Perchlorate	10 ug/L	11 ug/L	10 (≤30)	-	-
	Total dissolved solids	1400 mg/L	1300 mg/L	7 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		LVW0.55-1.2-20211208	LVW0.55-1.2-20211208-FD			
550-175450-1	Chlorate	110 ug/L	110 ug/L	0 (≤30)	-	-
	Perchlorate	40 ug/L	39 ug/L	3 (≤30)	-	-
	Total dissolved solids	1300 mg/L	1200 mg/L	8 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		I-D-20211208	I-D-20211208-FD			
550-175456-1	Hexavalent chromium	3500 ug/L	3400 ug/L	3 (≤30)	-	-
	Nitrate as N	46 mg/L	44 mg/L	4 (≤30)	-	-
	Chlorate	1100000 ug/L	1100000 ug/L	0 (≤30)	-	-
	Perchlorate	470000 ug/L	480000 ug/L	2 (≤30)	-	-
	Total dissolved solids	6100 mg/L	6200 mg/L	2 (≤30)	-	-
	Field pH	7.55 SU	7.55 SU	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		PC-150-20211215	PC-150-20211215-FD			
550-175896-1	Hexavalent chromium	45 ug/L	44 ug/L	2 (≤30)	-	-
	Nitrate as N	12 mg/L	12 mg/L	0 (≤30)	-	-
	Chlorate	32000 ug/L	39000 ug/L	20 (≤30)	-	-
	Perchlorate	48000 ug/L	46000 ug/L	4 (≤30)	-	-
	Total dissolved solids	4600 mg/L	4300 mg/L	7 (≤30)	-	-
	Field pH	7.26 SU	7.25 SU	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		PC-120-20211215	PC-120-20211215-FD			
550-175897-1	Chlorate	3.3 ug/L	3.8 ug/L	14 (≤30)	-	-
	Total dissolved solids	1500 mg/L	1500 mg/L	0 (≤30)	-	-
	Field pH	7.34 SU	7.34 SU	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		E2-1-20211216	E2-1-20211216-FD			
550-175989-1	Hexavalent chromium	27 ug/L	26 ug/L	4 (≤30)	-	-
	Nitrate as N	14 mg/L	14 mg/L	0 (≤30)	-	-
	Chlorate	11000 ug/L	13000 ug/L	17 (≤30)	-	-
	Perchlorate	85000 ug/L	83000 ug/L	2 (≤30)	-	-
	Total dissolved solids	2800 mg/L	2700 mg/L	4 (≤30)	-	-
	Field pH	7.40 SU	7.40 SU	0 (≤30)	-	-

NQ = No data were qualified when either the primary or duplicate result was not detected or was below the practical quantitation limit (PQL).

IX. Target Analyte Quantitation

All target analyte quantitations were acceptable with the following exceptions:

SDG	Sample	Analyte	Finding	Criteria	Flag	A or P
550-168267-1	I-E - 2021 08 03	Nitrate as N	Sample result exceeded linear range.	Reported result should be within linear range.	J (all detects)	A

X. Overall Assessment of Data

The analysis was conducted within all specifications of the methods.

In the case where more than one result was reported for an individual sample, the least technically acceptable results were deemed not reportable as follows:

SDG	Sample	Analyte	Reason	Flag	A or P
550-166608-1	I-O-2021 07 07	Nitrate as N	Results exceeded calibration range.	Do not report	-
550-166991-1	E2-2 – 2021 07 03	Nitrate as N	Results exceeded calibration range.	Do not report	-
550-170282-1	I-M-2021 09 08DL I-D-2021 09 08DL	Nitrate as N	Results exceeded calibration range.	Do not report	-
550-170283-1	I-AB-2021 09 08DL	Nitrate as N	Results exceeded calibration range.	Do not report	-
550-171878-1	E1-3-2021 10 06RE1 E1-3-2021 10 06RE2 E2-5-2021 10 06RE E2-5-2021 10 06-FDRE	Nitrate as N	Re-analyzed to confirm the original result.	Do not report	-
550-173776-1	I-R-20211104RE	Perchlorate	Re-analyzed to confirm the original result.	Do not report	-
550-174110-1	I-Q-20211110RE I-T-20211110RE I-U-20211110RE I-W-20211110RE I-O-20211110RE	Perchlorate	Re-analyzed to confirm the original result.	Do not report	-
550-175989-1	E2-2-20211216 E2-3-20211216 E2-1-20211216-FD	Total dissolved solids	Per the case narrative, the samples were incorrectly prepared	Do not report	-

Due to technical holding time, MS/MSD %R, RPD, field duplicate RPD and calibration range exceedance, one hundred eight (108) results were qualified as estimated.

NERT GWM Performance Sampling, July-December 2021
Wet Chemistry - Data Qualification Summary - SDGs 550-166607-1, 550-166608-1, 550-166890-1, 550-166991-1, 550-167061-1, 550-167062-1, 550-167079-1, 550-167079-2, 550-167219-1, 550-168267-1, 550-168583-1, 550-168668-1, 550-168669-1, 550-168851-1, 550-168852-1, 550-168955-1, 550-168958-1, 550-169062-1, 550-169157-1, 550-169158-1, 550-169252-1, 550-169253-1, 550-169352-1, 550-170104-1, 550-170282-1, 550-170283-1, 550-170388-1, 550-170535-1, 550-170634-1, 550-170729-1, 550-170730-1, 550-171878-1, 550-172255-1, 550-172256-1, 550-172261-1, 550-172353-1, 550-172355-1, 550-172460-1, 550-172463-1, 550-173430-1, 550-173530-1, 550-173618-1, 550-173631-1, 550-173773-1, 550-173775-1, 550-173776-1, 550-173858-1, 550-174110-1, 550-174306-1, 550-174309-1, 550-174397-1, 550-174471-1, 550 - 175450-1, 550-175455-1, 550-175456-1, 550-175748-1, 550-175896-1, 550-175897-1, 550-175988-1, 550-175989-1

SDG	Sample	Analyte	Flag	A or P	Reason (Code)
550-166608-1	I-O-2021 07 07DL	Nitrate as N	J- (all detects)	A	Technical holding times (h)
550-166991-1	E2-2 – 2021 07 13DL	Nitrate as N	J- (all detects)	A	Technical holding times (h)
550-170535-1	E1-3-2021 09 13	Nitrate as N	J- (all detects)	P	Technical holding times (h)
550-173776-1	I-R-20211104	Perchlorate	J- (all detects)	P	Technical holding times (h)
550-174397-1	LVW3.5-6-1.7-20211115 LVW0.55-0.9-20211115 LVW0.55-0.9-20211115-FD LVW0.55-20211115-FB	Total dissolved solids	J- (all detects) UJ (all non-detects)	P	Technical holding times (h)
550-175989-1	E2-2-20211216RE E2-3-20211216RE E2-1-20211216-FDRE	Total dissolved solids	J- (all detects)	P	Technical holding times (h)
550-166607-1	I-C-2021 07 07 I-F-2021 07 07 I-X-2021 07 07 I-N-2021 07 07 I-E-2021 07 07 I-M-2021 07 07 I-D-2021 07 07	Hexavalent chromium	J+ (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
550-166608-1	I-Q-2021 07 07 I-G-2021 07 07 I-T-2021 07 07 I-U-2021 07 07 I-H-2021 07 07 I-P-2021 07 07 I-W-2021 07 07 I-O-2021 07 07 I-W-2021 07 07-FD	Hexavalent chromium	J+ (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)

SDG	Sample	Analyte	Flag	A or P	Reason (Code)
550-166991-1	E1-1 - 2021 07 13 E1-2 - 2021 07 13 E1-3 - 2021 07 13 E2-3 - 2021 07 13 E2-4 - 2021 07 13	Chlorate	J+ (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
550-166991-1	E2-1 - 2021 07 13 E2-2 - 2021 07 13	Chlorate	J+ (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
550-168669-1	I-Q - 2021 08 09 I-G - 2021 08 09 I-T - 2021 08 09 I-U - 2021 08 09 I-H - 2021 08 09 I-P - 2021 08 09 I-W - 2021 08 09 I-O - 2021 08 09	Chlorate	J (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
550-168851-1	E1-2 - 2021 08 11 E1-3 - 2021 08 11 E2-1 - 2021 08 11 E2-2 - 2021 08 11 E2-3 - 2021 08 11 E2-4 - 2021 08 11 E2-5 - 2021 08 11 E2-1 - 2021 08 11-FD	Chlorate	J- (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
550-168852-1	I-I - 2021 08 11 I-V - 2021 08 11	Hexavalent chromium	J+ (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
550-168958-1	PC-150 - 2021 08 12	Hexavalent chromium	J+ (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
550-168958-1	ART-8A - 2021 08 12 ART-9 - 2021 08 12 PC-150 - 2021 08 12 PC-150 - 2021 08 12-FD	Chlorate	J+ (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
550-169062-1	I-AB - 2021 08 16	Hexavalent chromium Chlorate	J+ (all detects) J+ (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
550-168669-1	I-Q - 2021 08 09 I-G - 2021 08 09 I-T - 2021 08 09 I-U - 2021 08 09 I-H - 2021 08 09 I-P - 2021 08 09 I-W - 2021 08 09 I-O - 2021 08 09	Chlorate	J (all detects)	A	Matrix spike/Matrix spike duplicate (RPD) (ld)

SDG	Sample	Analyte	Flag	A or P	Reason (Code)
550-170283-1	I-AA-2021 09 08 I-AB-2021 09 08 I-B-2021 09 08 I-R-2021 09 08 I-Y-2021 09 08 I-L-2021 09 08 I-S-2021 09 08 I-AR-2021 09 08 I-AA-2021 09 08-FD	Hexavalent chromium	J (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
550-170283-1	I-AB-2021 09 08 I-B-2021 09 08 I-R-2021 09 08 I-Y-2021 09 08 I-L-2021 09 08 I-S-2021 09 08 I-AR-2021 09 08 I-AA-2021 09 08-FD	Chlorate	J+ (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
550-170388-1	I-Q-2021 09 09 I-G-2021 09 09 I-T-2021 09 09 I-U-2021 09 09 I-H-2021 09 09 I-P-2021 09 09 I-W-2021 09 09 I-O-2021 09 09	Nitrate as N	J- (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
550-170388-1	I-T-2021 09 09 I-U-2021 09 09 I-H-2021 09 09 I-P-2021 09 09 I-W-2021 09 09 I-O-2021 09 09	Chlorate	J+ (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
550-170535-1	E1-1-2021 09 13 E1-2-2021 09 13 E1-3-2021 09 13 E2-1-2021 09 13 E2-2-2021 09 13 E2-3-2021 09 13 E2-4-2021 09 13 E2-5-2021 09 13 E2-3-2021 09 13-FD	Chlorate	J+ (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
550-167061-1	ART-8A - 2021 07 14 ART-8A - 2021 07 14-FD	Nitrate as N	J (all detects)	A	Field duplicates (RPD) (fd)
550-167062-1	PC-119 - 2021 07 14 PC-119 - 2021 07 14-FD	Nitrate as N	J (all detects)	A	Field duplicates (RPD) (fd)
550-168851-1	E2-1 - 2021 08 11 E2-1 - 2021 08 11-FD	Chlorate	J (all detects)	A	Field duplicates (RPD) (fd)
550-170729-1	ART-2/2A-2021 09 15 ART-2/2A-2021 09 15-FD	Nitrate as N	J (all detects)	A	Field duplicates (RPD) (fd)

SDG	Sample	Analyte	Flag	A or P	Reason (Code)
550-174309-1	ART-8-20211115 ART-8A-20211115-FD	Hexavalent chromium	J (all detects)	A	Field duplicates (RPD) (fd)
550-168267-1	I-E - 2021 08 03	Nitrate as N	J (all detects)	A	Target analyte quantitation (exceeded range) (e)
550-166608-1	I-O-2021 07 07	Nitrate as N	Do not report	-	Overall assessment of data (orr)
550-166991-1	E2-2 - 2021 07 13	Nitrate as N	Do not report	-	Overall assessment of data (orr)
550-170282-1	I-M-2021 09 08DL I-D-2021 09 08DL	Nitrate as N	Do not report	-	Overall assessment of data (orr)
550-170283-1	I-AB-2021 09 08DL	Nitrate as N	Do not report	-	Overall assessment of data (orr)
550-171878-1	E1-3-2021 10 06RE1 E1-3-2021 10 06RE2 E2-5-2021 10 06RE E2-5-2021 10 06-FDRE	Nitrate as N	Do not report	-	Overall assessment of data (orr)
550-173776-1	I-R-20211104RE	Perchlorate	Do not report	-	Overall assessment of data (orr)
550-174110-1	I-Q-20211110RE I-T-20211110RE I-U-20211110RE I-W-20211110RE I-O-20211110RE	Perchlorate	Do not report	-	Overall assessment of data (orr)
550-175989-1	E2-2-20211216 E2-3-20211216 E2-1-20211216-FD	Total dissolved solids	Do not report	-	Overall assessment of data (orr)

NERT GWM Performance Sampling, July-December 2021
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDGs 550-166607-1, 550-166608-1, 550-166890-1, 550-166991-1, 550-167061-1, 550-167062-1, 550-167079-1, 550-167079-2, 550-167219-1, 550-168267-1, 550-168583-1, 550-168668-1, 550-168669-1, 550-168851-1, 550-168852-1, 550-168955-1, 550-168958-1, 550-169062-1, 550-169157-1, 550-169158-1, 550-169252-1, 550-169253-1, 550-169352-1, 550-170104-1, 550-170282-1, 550-170283-1, 550-170388-1, 550-170535-1, 550-170634-1, 550-170729-1, 550-170730-1, 550-171878-1, 550-172255-1, 550-172256-1, 550-172261-1, 550-172353-1, 550-172355-1, 550-172460-1, 550-172463-1, 550-173430-1, 550-173530-1, 550-173618-1, 550-173631-1, 550-173773-1, 550-173775-1, 550-173776-1, 550-173858-1, 550-174110-1, 550-174306-1, 550-174309-1, 550-174397-1, 550-174471-1, 550 - 175450-1, 550-175455-1, 550-175456-1, 550-175748-1, 550-175896-1, 550-175897-1, 550-175988-1, 550-175989-1

No Sample Data Qualified in these SDGs

NERT GWM Performance Sampling, July-December 2021
Wet Chemistry - Field Blank Data Qualification Summary - SDGs 550-166607-1, 550-166608-1, 550-166890-1, 550-166991-1, 550-167061-1, 550-167062-1, 550-167079-1, 550-167079-2, 550-167219-1, 550-168267-1, 550-168583-1, 550-168668-1, 550-168669-1, 550-168851-1, 550-168852-1, 550-168955-1, 550-168958-1, 550-169062-1, 550-169157-1, 550-169158-1, 550-169252-1, 550-169253-1, 550-169352-1, 550-170104-1, 550-170282-1, 550-170283-1, 550-170388-1, 550-170535-1, 550-170634-1, 550-170729-1, 550-170730-1, 550-171878-1, 550-172255-1, 550-172256-1, 550-172261-1, 550-172353-1, 550-172355-1, 550-172460-1, 550-172463-1, 550-173430-1, 550-173530-1, 550-173618-1, 550-173631-1, 550-173773-1, 550-173775-1, 550-173776-1, 550-173858-1, 550-174110-1, 550-174306-1, 550-174309-1, 550-174397-1, 550-174471-1, 550 - 175450-1, 550-175455-1, 550-175456-1, 550-175748-1, 550-175896-1, 550-175897-1, 550-175988-1, 550-175989-1

No Sample Data Qualified in these SDGs