Data Validation Summary Report
Phase 3 Remedial Investigation Sampling
December 2017 through November 2018
Nevada Environmental Response Trust (NERT)
Henderson, Nevada

Prepared for

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September 17, 2019

Phase 3 Remedial Investigation DVSR and EDD December 2017 through November 2018

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: 9/23/19

Phase 3 Remedial Investigation DVSR and EDD
December 2017 through November 2018

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.

_____ September 17, 2019

John M. Pekala, PG
Principal

_____
Date

Certified Environmental Manager
Ramboll US Corporation
CEM Certificate Number: 2347
CEM Expiration Date: September 20, 2020

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ATTACHMENTS

LIST OF ACRONYMS AND ABBREVIATIONS

CCB	Continuing Calibration Blank
DL	Detection Limit
DNR	Do Not Report
DOC	Dissolved Organic Carbon
DQO	Data Quality Objectives
DUP	Laboratory Duplicate
DVR	Data Validation Report
DVSR	Data Validation Summary Report
EB	Equipment Blank
FB	Field Blank
FD	Field Duplicate
ICB	Initial Calibration Blank
ICV	Initial Calibration Verification
LCS/LCSD	Laboratory Control Sample / Laboratory Control Sample Duplicate
LDC	Laboratory Data Consultants, Inc.
MDC	Minimum Detectable Concentration
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
PARCCS	Precision, Accuracy, Representativeness, Comparability, Completeness, Sensitivity
PQL	Practical Quantitation Limit
QA/QC	Quality Assurance / Quality Control
QAPP	Quality Assurance Project Plan
RPD	Relative Percent Difference
SDG	Sample Delivery Group
SIM	Selected Ion Monitoring
SQL	Sample Quantitation Limit
TB	Trip Blank
TCP	1,2,3-Trichloropropane
TDS	Total Dissolved Solids
USEPA	United States Environmental Protection Agency
VOC	Volatile Organic Compound
ug/L	Micrograms per Liter
mg/Kg	Milligrams per Kilogram
mg/L	Milligrams per Liter
%RSD	Percent Relative Standard Deviation
%D	Percent Difference
%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 associated with the Phase 3 Remedial Investigation sampling efforts completed from December 2017 through November 2018, conducted at the Nevada Environmental Response Trust (NERT) site in Henderson, Nevada. The assessment was performed by Ramboll as a part of the *Quality Assurance Project Plan, Revision 2, Nevada Environmental Response Trust Site, Henderson, Nevada* dated October 2017 and included the collection and analyses of 1,082 environmental and quality control (QC) samples. In addition, two samples, POD5-R-20180404 and POD5-R-20180410, were collected and analyzed; however, these samples were determined to be taken from residual water below the well screen; as such the results are not representative of groundwater and the well is considered "dry". These samples were not validated; therefore, analyte counts were not included in the DVSR. The analyses were performed by the following methods:

1,2,3-Trichloropropane (TCP) and 1,4-Dioxane by Environmental Protection Agency (EPA) SW-846 Method 8260B in Selected Ion Monitoring (SIM) mode
Metals by EPA Methods 200.7 and 6010B

Wet Chemistry:
Hexavalent Chromium by EPA Method 218.6
Chloride, Nitrate as NO_3, and Sulfate (Anions) by EPA Method 300.0
Chlorate by EPA Method 300.1B
Perchlorate by EPA Method 314.0
Alkalinity by Standard Method 2320B
Total Dissolved Solids (TDS) by Standard Method 2540C
Dissolved Organic Carbon (DOC) by Standard Method 5310B
Sulfide by EPA SW-846 Method 9034
pH by EPA SW-846 Method 9040C

Laboratory analytical services were provided by TestAmerica, Inc. The samples were grouped into sample delivery groups (SDGs). The soil and 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 in more than one SDG or if its analytes were validated at different validation levels. 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 water analytical data were validated according to Stage 2A and approximately ninety percent of the soil analytical data were validated according to Stage 2B data validation procedures and approximately ten percent of the soil samples were validated according to Stage 4 data validation procedures. The number of samples and percentage of samples validated to Stage 2A, Stage 2B, and Stage 4 for each method is presented in Table III.

The analytical data were evaluated for QA/QC based on the following documents: *Quality Assurance Project Plan, Revision 2, Nevada Environmental Response Trust Site, Henderson, Nevada* dated October 2017; a modified outline of the *USEPA National Functional Guidelines* (NFGs) *for Organic Superfund Methods Data Review* (January 2017), *for Inorganic Superfund Data Review* (January 2017), and *for High Resolution Superfund Method Data Review* (April 2016); *Standard Method for the Examination of Water and Wastewater 22nd edition (2012);* 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.

The 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 6.0 presents a summary of the PARCCS criteria by comparing quantitative parameters with acceptability criteria defined in the project DQO's. 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: equipment blanks (EB), field blanks (FB), field duplicates (FD), method blanks, laboratory duplicates (DUP), matrix spike/matrix spike duplicates (MS/MSD), and laboratory control samples (LCS).

Before conducting the PARCCS evaluation, the analytical data were validated according to the NDEP Data Validation Guidance (July 2018), QAPP (October 2017), NFGs (USEPA 2016, 2017), and EPA 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 compound or 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.

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 QAPP, 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)} X 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. A 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 or solid matrix is used to prepare an LCS. The LCS measures laboratory efficiency in recovering target analytes from either 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 may be 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, initial calibration blanks (ICB), and continuing calibration blanks (CCB), 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.

Calibration blanks consist of acidified laboratory grade water, which are injected at the beginning and at a regular frequency during each 12 - hour sample analysis run. These blanks estimate residual contaminants from the previous sample or standards analysis and measure baseline shifts that commonly occur in emission and absorption spectroscopy.

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 efficiency 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, volatilization, 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 QAPP, 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 calibration requirements, detection limits (DLs), and PQLs presented in the QAPP 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 following sections present a review of QC data for each analytical method.

2.0 1,2,3-TRICHLOROPROPANE AND 1,4-DIOXANE

A total of three water samples were analyzed for 1,2,3-trichloropropane and 1,4-dioxane by EPA SW-846 Method 8260B SIM. All 1,2,3-trichloropropane and 1,4-dioxane data were assessed to be valid since none of the six total results were rejected based on holding time or 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 Surrogates

All surrogate %Rs were within the QAPP acceptance criteria.

2.1.2 MS/MSD Samples

All MS/MSD %Rs and RPDs were within the QAPP acceptance criteria.

2.1.3 LCS/LCSD Samples

All LCS/LCSD %Rs and RPDs were within the QAPP acceptance criteria.

2.1.4 FD Samples

Field duplicate samples were not collected for this analysis.

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 14-day analysis holding time criteria for preserved water samples.

2.2.2 Blanks

Method blanks were analyzed to evaluate representativeness. The concentration for an individual target compound 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 - Using professional judgment, if a sample result for the blank contaminant was less than the PQL and the sample result was less than or equal to 2 times the blank value, the sample result was qualified as detected estimated (J) at the reported concentration.
>
> Results Above the PQL - Using professional judgment, if a sample result for the blank contaminant was greater than the PQL and the sample result was less than or equal to 2 times the blank contaminant value, the sample result was qualified as detected estimated (J+) at the reported concentration.
>
> No Action - Using professional judgment, if a sample result for the blank contaminant was greater than 2 times the blank value, the result was not qualified.

For this data set, two times the blank value was used to assess all contaminants for organic methods. This allows the data not to be censored and provides an understanding of the level of contamination relative to that found in the samples. To ensure comparability, this approach is employed for all data sets collected for the NERT site by Ramboll for the remedial investigation. This approach is also employed for all data sets collected for annual and semi-annual groundwater remedial performance sampling for the NERT site to ensure comparability.

2.2.2.1 Method Blanks

No contaminants were detected in the method 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 compounds detected below the PQLs flagged (J) by the laboratory should be considered estimated. The comparability of the 1,2,3-trichloropropane and 1,4-dioxane data is regarded as acceptable.

2.4 Completeness

The completeness level attained for 1,2,3-trichloropropane and 1,4-dioxane 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 met the specified requirements described in the QAPP.

3.0 METALS

A total of 260 water samples were analyzed for metals by EPA Method 200.7 and a total of 245 soil samples were analyzed for chromium by EPA SW-846 Method 6010B. All metal data were assessed to be valid since none of the 1,376 total results were rejected based on holding time or 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 Instrument Calibration

Initial and continuing calibration verification results provide a means of evaluating accuracy within a particular SDG. Correlation coefficient (r) and percent recovery (%R) are the two major parameters used to measure the effectiveness of instrument calibration. The correlation coefficient indicates the linearity of the calibration curve. %R is used to verify the ongoing calibration acceptability of the analytical system. The most critical of the two calibration parameters, r, has the potential to affect data accuracy across an SDG when it is outside the acceptable QC limits. %R exceedances suggest more routine instrumental anomalies, which typically impact all sample results for the affected analytes.

The correlation coefficients in the initial calibrations were within the acceptance criteria of ≥ 0.995. The continuing calibration verifications %Rs were within the acceptance criteria of 90-110%.

3.1.2 MS/MSD Samples

Five (5) potassium results were qualified as detected estimated (J+) due to MS/MSD %Rs above the QAPP acceptance criteria. The details regarding the qualification of results are provided in Attachment B.

All MS/MSD RPDs were within the QAPP acceptance criteria.

3.1.3 LCS Samples

All LCS %Rs were within the QAPP acceptance criteria.

3.1.4 ICP Interference Check Sample

All ICP interference check %Rs met the method acceptance criteria.

3.1.5 ICP Serial Dilution

All ICP serial dilution %Ds met the method acceptance criteria.

3.1.6 Internal Standards

All internal standard %Rs met the method acceptance criteria.

3.1.7 FD Samples

The field duplicate samples were evaluated for acceptable precision with RPDs for the analytes. Four (4) chromium results in field duplicate pair ES-13-80.0-20180123 and ES-13-80.0-20180123-FD, and field duplicate pair ESB-15-20.0-20180204 and ESB-15-20.0-20180204-FD were qualified as detected estimated (J) due to RPDs above the QAPP acceptance criteria. The details regarding the qualification of results are provided in Attachment B.

3.1.8 Sample Result Verification

Raw data were evaluated for 43 soil samples for chromium by EPA SW-846 Method 6010B. All reported sample results, detects and non-detects, were correctly calculated for these Stage 4 samples.

3.2 Representativeness

3.2.1 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 for metals.

3.2.2 Blanks

Method blanks, ICB/CCBs, EBs, and FBs were collected and analyzed to evaluate representativeness. The concentration for an individual target compound 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 and blank contaminant value were less than the PQL, the sample result was amended as estimated (J) at the reported concentration.
>
> 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.
>
> 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.

3.2.2.1 Method and Calibration Blanks

No data were qualified due to contaminants detected in the method blanks.

3.2.2.2 EBs and FBs

No data were qualified due to 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 compounds detected below the PQLs flagged (J) by the laboratory should be considered estimated. The comparability of the metals data is regarded as acceptable.

3.4 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.

3.5 Sensitivity

The calibration was evaluated for instrument sensitivity and was determined to be technically acceptable. All laboratory PQLs met the specified requirements described in the QAPP.

4.0 WET CHEMISTRY

A total of 256 water samples were analyzed for anions by EPA Method 300.0, and alkalinity by Standard Method 2320B, 815 soil and 258 water samples were analyzed for chlorate by EPA Method 300.1B, 815 soil and 257 water samples were analyzed for perchlorate by EPA Method 314.0, 39 water samples were analyzed for hexavalent chromium by EPA Method 218.6, three water samples were analyzed for sulfide by EPA SW-846 Method 9034 and DOC by Standard Method 5310B, 257 water samples were analyzed for TDS by Standard Method 2540C, and 142 water samples were analyzed for pH by EPA SW-846 Method 9040C. All wet chemistry data were assessed to be valid with the exception of 13 of the 4,381 total results which were rejected based on MS/MSD %R and holding time exceedances. This section discusses the QA/QC supporting documentation as defined by the PARCCS criteria and evaluated based on the DQOs.

4.1 Precision and Accuracy

4.1.1 Instrument Calibration

Instrument calibrations were evaluated for all wet chemistry methods. The correlation coefficients in the initial calibrations were within the acceptance criteria of ≥ 0.995.

No data were qualified due to continuing calibration verifications %Rs above the acceptance criteria of 85-115% since the perchlorate results were not detected in the associated samples.

4.1.2 Surrogate

Surrogates were evaluated for chlorate by EPA Method 300.1B. All %Rs were within the QAPP acceptance criteria.

4.1.3 MS/MSD Samples

MS/MSD samples were evaluated for anions, chlorate, DOC, perchlorate, hexavalent chromium and sulfide.

As a result of grossly exceeded MS/MSD %Rs (e.g., < 30%), 12 perchlorate results were qualified as rejected (R). Additionally, 460 results were qualified as estimated (J-) or non-detected estimated (UJ) due to MS/MSD %Rs below the QAPP acceptance criteria. Negative bias was removed for 6 of 460 results since these results were also qualified due to MS/MSD RPD above the QAPP acceptance criteria.

Eighty-seven (87) results were qualified as detected estimated (J+) due to MS/MSD %Rs above the QAPP acceptance criteria. Positive bias was removed for 6 of 87 results since these results were also qualified due to MS/MSD or field duplicate RPD above the QAPP acceptance criteria.

Fifty-three (53) results were qualified as estimated (J) or non-detected estimated (UJ) due to MS/MSD RPDs above the QAPP acceptance criteria.

The details regarding the qualification of results are provided in Attachment C.

4.1.4 DUP Samples

DUP samples were evaluated for alkalinity, pH and TDS.

Six (6) bicarbonate as HC03 results were qualified as estimated (J) due to a DUP RPD above the QAPP acceptance criteria. The details regarding the qualification of results are provided in Attachment C.

4.1.5 LCS Samples

All LCS/LCSD %Rs and RPDs were within the QAPP acceptance criteria.

4.1.6 FD Samples

Eight (8) results in three (3) field duplicate pairs were qualified as detected estimated (J) due to RPDs above the QAPP acceptance criteria. The details regarding the qualification of results are provided in Attachment C.

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.

4.1.7 Sample Result Verification

Raw data were evaluated for 86 soil samples for chlorate and perchlorate. All reported sample results, detects and non-detects, were correctly calculated for these Stage 4 samples.

4.2 Representativeness

4.2.1 Sample Preservation and Holding Times

The evaluation of holding times to verify compliance with all wet chemistry methods was conducted. All samples met the 7-day analysis holding time criteria for sulfide and TDS, the 14-day analysis holding time criteria for alkalinity, the 28-day analysis holding time criteria for chlorate, chloride, sulfate, and perchlorate.

The nitrate as NO3 result for sample POD8-20180112-FB was qualified as rejected (R) as a result of grossly exceeding the analysis holding time criteria of 48 hours for water samples. Using professional judgment, the nitrate as NO3 result was qualified as rejected when the holding time criteria were exceeded by greater than two times.

In addition, one hexavalent chromium result and 16 nitrate as NO3 results were qualified as estimated (J-) or non-detected estimated (UJ) as a result of exceeding the analysis holding time criteria. The analysis holding time criteria is 24 hours for hexavalent chromium and 48 hours for nitrate as NO3.

One hundred twenty-eight (128) pH results were qualified as detected estimated (J) as a result of exceeding the analysis holding time criteria of 48 hours. Bias cannot be determined.

Method 9040C for pH analysis states that samples should be analyzed as soon as possible. For data validation, this has been interpreted as a 48-hour holding time from the time of collection. This is based on allowing 24-hours for the sample to be received at the laboratory and then allowing 24-hours for the sample to be analyzed after receipt.

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

4.2.2 Blanks

Method blanks, ICB/CCBs, EBs, and FBs were collected and analyzed to evaluate representativeness.

4.2.2.1 Method and Calibration Blanks

No data were qualified due to contaminants detected in the method and calibration blanks.

4.2.2.2 EBs and FBs

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

4.3 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 compounds detected below the PQLs flagged (J) by the laboratory should be considered estimated. The comparability of the wet chemistry data is regarded as acceptable.

4.4 Completeness

The completeness level attained for wet chemistry field samples was 100 percent for alkalinity, chlorate, DOC, hexavalent chromium, pH, TDS, and sulfide, 99.87 percent for anions and 98.88 percent for perchlorate. This percentage was calculated as the total number of accepted sample results divided by the total number of sample results multiplied by 100.

4.5 Sensitivity

The calibration was evaluated for instrument sensitivity and was determined to be technically acceptable. All laboratory PQLs met the specified requirements described in the QAPP.

5.0 VARIANCES IN ANALYTICAL PERFORMANCE

The laboratory used standard analytical methods for all of the analyses throughout the project. No systematic variances in analytical performance were noted in the laboratory case narratives.

6.0 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.

6.1 Precision and Accuracy

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

All calibrations were performed as required and met the acceptance criteria. All surrogate, LCS/LCSD and MS/MSD percent recoveries and RPDs, internal standard percent recoveries, and DUP and field duplicate RPDs met acceptance criteria with the exceptions noted in Sections 3.1.2, 3.1.7, 4.1.3, 4.1.4 and 4.1.6.

6.2 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 4.2.1. All samples were associated with a method blank and in each individual SDG. The representativeness of the project data is considered acceptable.

6.3 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. Sample preservation and holding times were within QC criteria. The overall comparability is considered acceptable.

6.4 Completeness

Of the 5,763 total analytes reported, 13 of the sample results were rejected. The completeness for the SDGs is as follows:

Parameter	**Total Analytes**	**No. of Rejects**	**% Completeness**
1,2,3-Trichloropropane and 1,4-Dioxane	6	0	100
Metals	1,376	0	100
Wet Chemistry:			
Hexavalent Chromium	39	0	100
Anions	768	1	99.87
Chlorate	1,073	0	100
Perchlorate	1,072	12	98.88
Alkalinity	1,024	0	100
TDS	257	0	100
DOC	3	0	100
Sulfide	3	0	100
pH	142	0	100
Total	**5,763**	**13**	**99.8**

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

6.5 Sensitivity

Sensitivity was achieved by the laboratory to support the DQOs. Calibration concentrations and PQLs met the project requirements and low level contamination in the method blanks, EBs, and FBs did not affect sensitivity.

7.0 CONCLUSIONS AND RECOMMENDATIONS

The analytical data quality assessment for the soil and water sample laboratory analytical results generated during the Phase 3 Remedial Investigation Sampling from December 2017 through November 2018 at the NERT site in Henderson, Nevada established that the overall project requirements and completeness levels were met. Sample results that were found to be rejected (R) are unusable for all purposes. Sample results that were found to be estimated (J) are usable for limited purposes only. Based upon the Stage 2A, Stage 2B, and Stage 4 data validation all other results are considered valid and usable for all purposes.

8.0 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.

Ramboll 2017. Quality Assurance Project Plan, Revision 2, Nevada Environmental Response Trust Site, Henderson, Nevada. October.

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 2017. USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review. January.

USEPA 2017. USEPA National Functional Guidelines for Superfund Organic Methods Data Review. January.

TABLES

Table I. Sample Cross-Reference

LDC	SDG	Client ID	Lab ID	QC Type	Sample Date	Matrix	Validation Level	VOC (8260B SIM)	Metals (200.7)	Chromium (6010B)	CrVI (218.6)	Anions (300.0)	Chlorate (300.1B)	Perchlorate (314.0)	Alkalinity (2320)	TDS (2540C)	DOC (5310B)	Sulfide (9034)	pH (9040C)
41278	4401985411	ES-4-110.0-20171213	440-198541-1		12/13/2017	Soil	Stage 4						X	X					
41278	4401985411	ES-4-120.0-20171213	440-198541-2		12/13/2017	Soil	Stage 4						X	X					
41278	4401985411	ES-3-10.0-20171212	440-198541-3		12/12/2017	Soil	Stage 4						X	X					
41278	4401985411	ES-3-20.0-20171212	440-198541-4		12/12/2017	Soil	Stage 4						X	X					
41278	4401985411	ES-3-30.0-20171212	440-198541-5		12/12/2017	Soil	Stage 4						X	X					
41278	4401985411	ES-3-40.0-20171212	440-198541-6		12/12/2017	Soil	Stage 4						X	X					
41278	4401985411	ES-3-50.0-20171212	440-198541-7	FD1	12/12/2017	Soil	Stage 4						X	X					
41278	4401985411	ES-3-60.0-20171212	440-198541-8		12/12/2017	Soil	Stage 4						X	X					
41278	4401985411	ES-3-70.0-20171212	440-198541-9		12/12/2017	Soil	Stage 4						X	X					
41278	4401985411	ES-3-80.0-20171212	440-198541-10		12/12/2017	Soil	Stage 4						X	X					
41278	4401985411	ES-3-90.0-20171212	440-198541-11		12/12/2017	Soil	Stage 4						X	X					
41278	4401985411	ES-3-100.0-20171212	440-198541-12		12/12/2017	Soil	Stage 4						X	X					
41278	4401985411	ES-3-110.0-20171212	440-198541-13		12/12/2017	Soil	Stage 4						X	X					
41278	4401985411	ES-3-120.0-20171212	440-198541-14		12/12/2017	Soil	Stage 4						X	X					
41278	4401985411	ES-3-50.0-20171212-FD	440-198541-15	FD1	12/12/2017	Soil	Stage 4						X	X					
41278	4401985411	ES-4-10.0-20171212	440-198541-16		12/12/2017	Soil	Stage 4						X	X					
41278	4401985411	ES-4-20.0-20171212	440-198541-17		12/12/2017	Soil	Stage 4						X	X					
41278	4401985411	ES-4-30.0-20171212	440-198541-18		12/12/2017	Soil	Stage 4						X	X					
41278	4401985411	ES-4-40.0-20171212	440-198541-19		12/12/2017	Soil	Stage 4						X	X					
41278	4401985411	ES-4-50.0-20171212	440-198541-20		12/12/2017	Soil	Stage 4						X	X					
41278	4401985411	ES-4-60.0-20171212	440-198541-21		12/12/2017	Soil	Stage 4						X	X					
41278	4401985411	ES-4-70.0-20171212	440-198541-22		12/12/2017	Soil	Stage 4						X	X					
41278	4401985411	ES-4-80.0-20171213	440-198541-23		12/13/2017	Soil	Stage 4						X	X					
41278	4401985411	ES-4-90.0-20171213	440-198541-24	FD2	12/13/2017	Soil	Stage 4						X	X					
41278	4401985411	ES-4-90.0-20171213-FD	440-198541-25	FD2	12/13/2017	Soil	Stage 4						X	X					
41278	4401985411	ES-4-100.0-20171213	440-198541-26		12/13/2017	Soil	Stage 4						X	X					
41278	4401986631	ES-2-10.0-20171213	440-198663-1		12/13/2017	Soil	Stage 2B						X	X					
41278	4401986631	ES-2-20.0-20171213	440-198663-2		12/13/2017	Soil	Stage 2B						X	X					
41278	4401986631	ES-2-30.0-20171214	440-198663-3		12/14/2017	Soil	Stage 2B						X	X					

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LDC	SDG	Client ID	Lab ID	QC Type	Sample Date	Matrix	Validation Level	VOC (8260B SIM)	Metals (200.7)	Chromium (6010B)	CrVI (218.6)	Anions (300.0)	Chlorate (300.1B)	Perchlorate (314.0)	Alkalinity (2320)	TDS (2540C)	DOC (5310B)	Sulfide (9034)	pH (9040C)
41278	4401986631	ES-2-40.0-20171214	440-198663-4		12/14/2017	Soil	Stage 2B						X	X					
41278	4401986631	ES-2-50.0-20171214	440-198663-5		12/14/2017	Soil	Stage 2B						X	X					
41278	4401986631	ES-2-60.0-20171214	440-198663-6		12/14/2017	Soil	Stage 2B						X	X					
41278	4401986631	ES-2-70.0-20171214	440-198663-7		12/14/2017	Soil	Stage 2B						X	X					
41278	4401986631	ES-2-80.0-20171214	440-198663-8		12/14/2017	Soil	Stage 2B						X	X					
41278	4401986631	ES-2-90.0-20171214	440-198663-9		12/14/2017	Soil	Stage 2B						X	X					
41278	4401986631	ES-2-100.0-20171214	440-198663-10		12/14/2017	Soil	Stage 2B						X	X					
41278	4401986631	ES-2-110.0-20171214	440-198663-11		12/14/2017	Soil	Stage 2B						X	X					
41278	4401986631	ES-2-120.0-20171214	440-198663-12		12/14/2017	Soil	Stage 2B						X	X					
41278	4401987721	ES-5-10.0-20171216	440-198772-1		12/16/2017	Soil	Stage 2B						X	X					
41278	4401987721	ES-5-20.0-20171216	440-198772-2	FD3	12/16/2017	Soil	Stage 2B						X	X					
41278	4401987721	ES-5-20.0-20171216-FD	440-198772-3	FD3	12/16/2017	Soil	Stage 2B						X	X					
41278	4401987721	ES-5-30.0-20171216	440-198772-4		12/16/2017	Soil	Stage 2B						X	X					
41278	4401987721	ES-5-40.0-20171216	440-198772-5		12/16/2017	Soil	Stage 2B						X	X					
41278	4401987721	ES-5-50.0-20171216	440-198772-6		12/16/2017	Soil	Stage 2B						X	X					
41278	4401987721	ES-5-60.0-20171216	440-198772-7	FD4	12/16/2017	Soil	Stage 2B						X	X					
41278	4401987721	ES-5-60.0-20171216-FD	440-198772-8	FD4	12/16/2017	Soil	Stage 2B						X	X					
41278	4401987721	ES-5-70.0-20171216	440-198772-9		12/16/2017	Soil	Stage 2B						X	X					
41278	4401987721	ES-5-80.0-20171216	440-198772-10		12/16/2017	Soil	Stage 2B						X	X					
41278	4401987721	ES-5-90.0-20171216	440-198772-11		12/16/2017	Soil	Stage 2B						X	X					
41278	4401987721	ES-5-100.0-20171216	440-198772-12		12/16/2017	Soil	Stage 2B						X	X					
41278	4401987721	ESB-2-10.0-20171215	440-198772-13		12/15/2017	Soil	Stage 2B						X	X					
41278	4401987721	ESB-2-20.0-20171215	440-198772-14	FD5	12/15/2017	Soil	Stage 2B						X	X					
41278	4401987721	ESB-2-20.0-20171215-FD	440-198772-15	FD5	12/15/2017	Soil	Stage 2B						X	X					
41278	4401987721	ESB-2-30.0-20171215	440-198772-16		12/15/2017	Soil	Stage 2B						X	X					
41278	4401987721	ESB-2-40.0-20171215	440-198772-17		12/15/2017	Soil	Stage 2B						X	X					
41278	4401987721	ESB-2-50.0-20171215	440-198772-18		12/15/2017	Soil	Stage 2B						X	X					
41278	4401987721	ESB-2-60.0-20171216	440-198772-19		12/16/2017	Soil	Stage 2B						X	X					
41278	4401987721	ESB-2-70.0-20171216	440-198772-20		12/16/2017	Soil	Stage 2B						X	X					

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LDC	SDG	Client ID	Lab ID	QC Type	Sample Date	Matrix	Validation Level	VOC (8260B SIM)	Metals (200.7)	Chromium (6010B)	CrVI (218.6)	Anions (300.0)	Chlorate (300.1B)	Perchlorate (314.0)	Alkalinity (2320)	TDS (2540C)	DOC (5310B)	Sulfide (9034)	pH (9040C)
41278	4401987721	ESB-2-80.0-20171216	440-198772-21	FD6	12/16/2017	Soil	Stage 2B						X	X					
41278	4401987721	ESB-2-80.0-20171216-FD	440-198772-22	FD6	12/16/2017	Soil	Stage 2B						X	X					
41278	4401987721	ESB-2-90.0-20171216	440-198772-23		12/16/2017	Soil	Stage 2B						X	X					
41278	4401987721	ESB-2-100.0-20171216	440-198772-24		12/16/2017	Soil	Stage 2B						X	X					
41278	4401987721	ES-5-110.0-20171216	440-198772-25		12/16/2017	Soil	Stage 2B						X	X					
41278	4401987721	ES-5-120.0-20171216	440-198772-26		12/16/2017	Soil	Stage 2B						X	X					
41278	4401987721	ESB-2-110.0-20171216	440-198772-27		12/16/2017	Soil	Stage 2B						X	X					
41278	4401987721	ESB-2-120.0-20171216	440-198772-28		12/16/2017	Soil	Stage 2B						X	X					
41278	4401987721	ESB-2-130.0-20171216	440-198772-29		12/16/2017	Soil	Stage 2B						X	X					
41278	4401987721	ESB-2-140.0-20171216	440-198772-30		12/16/2017	Soil	Stage 2B						X	X					
41278	4401987721	ESB-2-150.0-20171216	440-198772-31		12/16/2017	Soil	Stage 2B						X	X					
41278	4401987721	ESB-3-20.0-20171217-FD	440-198772-32	FD7	12/17/2017	Soil	Stage 2B						X	X					
41278	4401987721	ESB-3-80.0-20171217-FD	440-198772-33	FD8	12/17/2017	Soil	Stage 2B						X	X					
41278	4401987721	ESB-3-130.0-20171218	440-198772-34		12/18/2017	Soil	Stage 2B						X	X					
41278	4401987721	ESB-3-140.0-20171218	440-198772-35		12/18/2017	Soil	Stage 2B						X	X					
41278	4401987721	ESB-3-10.0-20171217	440-198772-36		12/17/2017	Soil	Stage 2B						X	X					
41278	4401987721	ESB-3-20.0-20171217	440-198772-37	FD7	12/17/2017	Soil	Stage 2B						X	X					
41278	4401987721	ESB-3-30.0-20171217	440-198772-38		12/17/2017	Soil	Stage 2B						X	X					
41278	4401987721	ESB-3-40.0-20171217	440-198772-39		12/17/2017	Soil	Stage 2B						X	X					
41278	4401987721	ESB-3-50.0-20171217	440-198772-40		12/17/2017	Soil	Stage 2B						X	X					
41278	4401987721	ESB-3-60.0-20171217	440-198772-41		12/17/2017	Soil	Stage 2B						X	X					
41278	4401987721	ESB-3-70.0-20171217	440-198772-42		12/17/2017	Soil	Stage 2B						X	X					
41278	4401987721	ESB-3-80.0-20171217	440-198772-43	FD8	12/17/2017	Soil	Stage 2B						X	X					
41278	4401987721	ESB-3-90.0-20171217	440-198772-44		12/17/2017	Soil	Stage 2B						X	X					
41278	4401987721	ESB-3-100.0-20171217	440-198772-45		12/17/2017	Soil	Stage 2B						X	X					
41278	4401987721	ESB-3-110.0-20171217	440-198772-46		12/17/2017	Soil	Stage 2B						X	X					
41278	4401987721	ESB-3-120.0-20171217	440-198772-47		12/17/2017	Soil	Stage 2B						X	X					
41278	4401987721	ESB-3-150.0-20171218	440-198772-48		12/18/2017	Soil	Stage 2B						X	X					
41278	4401987721	ESB-6-130.0-20171218	440-198772-49		12/18/2017	Soil	Stage 2B						X	X					

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LDC	SDG	Client ID	Lab ID	QC Type	Sample Date	Matrix	Validation Level	VOC (8260B SIM)	Metals (200.7)	Chromium (6010B)	CrVI (218.6)	Anions (300.0)	Chlorate (300.1B)	Perchlorate (314.0)	Alkalinity (2320)	TDS (2540C)	DOC (5310B)	Sulfide (9034)	pH (9040C)
41278	4401987721	ESB-6-140.0-20171218	440-198772-50		12/18/2017	Soil	Stage 2B						X	X					
41278	4401987721	ESB-6-150.0-20171218	440-198772-51		12/18/2017	Soil	Stage 2B						X	X					
41278	4401987721	ESB-6-20.0-20171217-FD	440-198772-52	FD9	12/17/2017	Soil	Stage 2B						X	X					
41278	4401987721	ESB-6-80.0-20171217-FD	440-198772-53	FD10	12/17/2017	Soil	Stage 2B						X	X					
41278	4401987721	ESB-6-10.0-20171217	440-198772-54		12/17/2017	Soil	Stage 2B						X	X					
41278	4401987721	ESB-6-20.0-20171217	440-198772-55	FD9	12/17/2017	Soil	Stage 2B						X	X					
41278	4401987721	ESB-6-30.0-20171217	440-198772-56		12/17/2017	Soil	Stage 2B						X	X					
41278	4401987721	ESB-6-40.0-20171217	440-198772-57		12/17/2017	Soil	Stage 2B						X	X					
41278	4401987721	ESB-6-50.0-20171217	440-198772-58		12/17/2017	Soil	Stage 2B						X	X					
41278	4401987721	ESB-6-60.0-20171217	440-198772-59		12/17/2017	Soil	Stage 2B						X	X					
41278	4401987721	ESB-6-70.0-20171217	440-198772-60		12/17/2017	Soil	Stage 2B						X	X					
41278	4401987721	ESB-6-80.0-20171217	440-198772-61	FD10	12/17/2017	Soil	Stage 2B						X	X					
41278	4401987721	ESB-6-90.0-20171217	440-198772-62		12/17/2017	Soil	Stage 2B						X	X					
41278	4401987721	ESB-6-100.0-20171217	440-198772-63		12/17/2017	Soil	Stage 2B						X	X					
41278	4401987721	ESB-6-110.0-20171217	440-198772-64		12/17/2017	Soil	Stage 2B						X	X					
41278	4401987721	ESB-6-120.0-20171218	440-198772-65		12/18/2017	Soil	Stage 2B						X	X					
41278	4401989641	ESB-5-10.0-20171218	440-198964-1		12/18/2017	Soil	Stage 2B						X	X					
41278	4401989641	ESB-5-20.0-20171218	440-198964-2	FD13	12/18/2017	Soil	Stage 2B						X	X					
41278	4401989641	ESB-5-30.0-20171218	440-198964-3		12/18/2017	Soil	Stage 2B						X	X					
41278	4401989641	ESB-5-40.0-20171218	440-198964-4		12/18/2017	Soil	Stage 2B						X	X					
41278	4401989641	ESB-5-50.0-20171218	440-198964-5		12/18/2017	Soil	Stage 2B						X	X					
41278	4401989641	ESB-5-60.0-20171218	440-198964-6		12/18/2017	Soil	Stage 2B						X	X					
41278	4401989641	ESB-5-70.0-20171218	440-198964-7		12/18/2017	Soil	Stage 2B						X	X					
41278	4401989641	ESB-5-80.0-20171218	440-198964-8	FD14	12/18/2017	Soil	Stage 2B						X	X					
41278	4401989641	ESB-5-90.0-20171219	440-198964-9		12/19/2017	Soil	Stage 2B						X	X					
41278	4401989641	ESB-5-100.0-20171219	440-198964-10		12/19/2017	Soil	Stage 2B						X	X					
41278	4401989641	ESB-5-110.0-20171219	440-198964-11		12/19/2017	Soil	Stage 2B						X	X					
41278	4401989641	ESB-5-120.0-20171219	440-198964-12		12/19/2017	Soil	Stage 2B						X	X					
41278	4401989641	ESB-4-10.0-20171218	440-198964-13		12/18/2017	Soil	Stage 2B						X	X					

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LDC	SDG	Client ID	Lab ID	QC Type	Sample Date	Matrix	Validation Level	VOC (8260B SIM)	Metals (200.7)	Chromium (6010B)	CrVI (218.6)	Anions (300.0)	Chlorate (300.1B)	Perchlorate (314.0)	Alkalinity (2320)	TDS (2540C)	DOC (5310B)	Sulfide (9034)	pH (9040C)
41278	4401989641	ESB-4-20.0-20171218	440-198964-14	FD11	12/18/2017	Soil	Stage 2B						X	X					
41278	4401989641	ESB-4-30.0-20171218	440-198964-15		12/18/2017	Soil	Stage 2B						X	X					
41278	4401989641	ESB-4-40.0-20171218	440-198964-16		12/18/2017	Soil	Stage 2B						X	X					
41278	4401989641	ESB-4-50.0-20171218	440-198964-17		12/18/2017	Soil	Stage 2B						X	X					
41278	4401989641	ESB-4-60.0-20171218	440-198964-18		12/18/2017	Soil	Stage 2B						X	X					
41278	4401989641	ESB-4-70.0-20171218	440-198964-19		12/18/2017	Soil	Stage 2B						X	X					
41278	4401989641	ESB-4-80.0-20171218	440-198964-20	FD12	12/18/2017	Soil	Stage 2B						X	X					
41278	4401989641	ESB-4-90.0-20171218	440-198964-21		12/18/2017	Soil	Stage 2B						X	X					
41278	4401989641	ESB-4-100.0-20171218	440-198964-22		12/18/2017	Soil	Stage 2B						X	X					
41278	4401989641	ESB-4-110.0-20171218	440-198964-23		12/18/2017	Soil	Stage 2B						X	X					
41278	4401989641	ESB-4-120.0-20171218	440-198964-24		12/18/2017	Soil	Stage 2B						X	X					
41278	4401989641	ESB-4-130.0-20171218	440-198964-25		12/18/2017	Soil	Stage 2B						X	X					
41278	4401989641	ESB-4-140.0-20171218	440-198964-26		12/18/2017	Soil	Stage 2B						X	X					
41278	4401989641	ESB-4-150.0-20171218	440-198964-27		12/18/2017	Soil	Stage 2B						X	X					
41278	4401989641	ESB-5-130.0-20171219	440-198964-28		12/19/2017	Soil	Stage 2B						X	X					
41278	4401989641	ESB-5-140.0-20171219	440-198964-29		12/19/2017	Soil	Stage 2B						X	X					
41278	4401989641	ESB-5-150.0-20171219	440-198964-30		12/19/2017	Soil	Stage 2B						X	X					
41278	4401989641	ESB-4-20.0-20171218-FD	440-198964-31	FD11	12/18/2017	Soil	Stage 2B						X	X					
41278	4401989641	ESB-4-80.0-20171218-FD	440-198964-32	FD12	12/18/2017	Soil	Stage 2B						X	X					
41278	4401989641	ESB-5-20.0-20171218-FD	440-198964-33	FD13	12/18/2017	Soil	Stage 2B						X	X					
41278	4401989641	ESB-5-80.0-20171218-FD	440-198964-34	FD14	12/18/2017	Soil	Stage 2B						X	X					
41278	4401989641	ESB-1-10.0-20171220	440-198964-35		12/20/2017	Soil	Stage 2B						X	X					
41278	4401989641	ESB-1-20.0-20171220	440-198964-36	FD15	12/20/2017	Soil	Stage 2B						X	X					
41278	4401989641	ESB-1-20.0-20171220-FD	440-198964-37	FD15	12/20/2017	Soil	Stage 2B						X	X					
41278	4401989641	ESB-1-30.0-20171220	440-198964-38		12/20/2017	Soil	Stage 2B						X	X					
41278	4401989641	ESB-1-40.0-20171220	440-198964-39		12/20/2017	Soil	Stage 2B						X	X					
41278	4401989641	ESB-1-50.0-20171220	440-198964-40		12/20/2017	Soil	Stage 2B						X	X					
41278	4401990671	ESB-1-60.0-20171220	440-199067-1		12/20/2017	Soil	Stage 2B						X	X					
41278	4401990671	ESB-1-70.0-20171220	440-199067-2		12/20/2017	Soil	Stage 2B						X	X					

Table I. Sample Cross-Reference

LDC	SDG	Client ID	Lab ID	QC Type	Sample Date	Matrix	Validation Level	VOC (8260B SIM)	Metals (200.7)	Chromium (6010B)	CrVI (218.6)	Anions (300.0)	Chlorate (300.1B)	Perchlorate (314.0)	Alkalinity (2320)	TDS (2540C)	DOC (5310B)	Sulfide (9034)	pH (9040C)
41278	4401990671	ESB-1-80.0-20171220	440-199067-3	FD16	12/20/2017	Soil	Stage 2B						X	X					
41278	4401990671	ESB-1-80.0-20171220-FD	440-199067-4	FD16	12/20/2017	Soil	Stage 2B						X	X					
41278	4401990671	ESB-1-90.0-20171220	440-199067-5		12/20/2017	Soil	Stage 2B						X	X					
41278	4401990671	ESB-1-100.0-20171220	440-199067-6		12/20/2017	Soil	Stage 2B						X	X					
41278	4401990671	ESB-1-110.0-20171220	440-199067-7		12/20/2017	Soil	Stage 2B						X	X					
41278	4401990671	ESB-1-120.0-20171220	440-199067-8		12/20/2017	Soil	Stage 2B						X	X					
41278	4401990671	ESB-1-130.0-20171220	440-199067-9		12/20/2017	Soil	Stage 2B						X	X					
41278	4401990671	ESB-1-140.0-20171220	440-199067-10		12/20/2017	Soil	Stage 2B						X	X					
41278	4401990671	ESB-1-150.0-20171220	440-199067-11		12/20/2017	Soil	Stage 2B						X	X					
41278	4401990671	ESB-7-10.0-20171220	440-199067-12		12/20/2017	Soil	Stage 2B						X	X					
41278	4401990671	ESB-7-20.0-20171220	440-199067-13	FD17	12/20/2017	Soil	Stage 2B						X	X					
41278	4401990671	ESB-7-20.0-20171220-FD	440-199067-14	FD17	12/20/2017	Soil	Stage 2B						X	X					
41278	4401990671	ESB-7-30.0-20171220	440-199067-15		12/20/2017	Soil	Stage 2B						X	X					
41278	4401990671	ESB-7-40.0-20171220	440-199067-16		12/20/2017	Soil	Stage 2B						X	X					
41278	4401990671	ESB-7-50.0-20171220	440-199067-17		12/20/2017	Soil	Stage 2B						X	X					
41278	4401990671	ESB-7-60.0-20171220	440-199067-18		12/20/2017	Soil	Stage 2B						X	X					
41278	4401990671	ESB-7-70.0-20171220	440-199067-19		12/20/2017	Soil	Stage 2B						X	X					
41278	4401990671	ESB-7-80.0-20171220	440-199067-20	FD18	12/20/2017	Soil	Stage 2B						X	X					
41278	4401990671	ESB-7-80.0-20171220-FD	440-199067-21	FD18	12/20/2017	Soil	Stage 2B						X	X					
41278	4401990671	ESB-7-90.0-20171220	440-199067-22		12/20/2017	Soil	Stage 2B						X	X					
41278	4401990671	ESB-7-100.0-20171220	440-199067-23		12/20/2017	Soil	Stage 2B						X	X					
41278	4401990671	ESB-7-110.0-20171221	440-199067-24		12/21/2017	Soil	Stage 2B						X	X					
41278	4401990671	ESB-7-120.0-20171221	440-199067-25		12/21/2017	Soil	Stage 2B						X	X					
41278	4401990671	ESB-7-130.0-20171221	440-199067-26		12/21/2017	Soil	Stage 2B						X	X					
41278	4401990671	ESB-7-140.0-20171221	440-199067-27		12/21/2017	Soil	Stage 2B						X	X					
41278	4401990671	ESB-7-150.0-20171221	440-199067-28		12/21/2017	Soil	Stage 2B						X	X					
41655	4401996091	ES-6-10.0-20180102	440-199609-1		1/2/2018	Soil	Stage 2B						X	X					
41655	4401996091	ES-6-20.0-20180102	440-199609-2	FD19	1/2/2018	Soil	Stage 2B						X	X					
41655	4401996091	ES-6-20.0-20180102-FD	440-199609-3	FD19	1/2/2018	Soil	Stage 2B						X	X					

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LDC	SDG	Client ID	Lab ID	QC Type	Sample Date	Matrix	Validation Level	VOC (8260B SIM)	Metals (200.7)	Chromium (6010B)	CrVI (218.6)	Anions (300.0)	Chlorate (300.1B)	Perchlorate (314.0)	Alkalinity (2320)	TDS (2540C)	DOC (5310B)	Sulfide (9034)	pH (9040C)
41655	4401996091	ES-6-30.0-20180102	440-199609-4		1/2/2018	Soil	Stage 2B						X	X					
41655	4401996091	ES-6-40.0-20180102	440-199609-5		1/2/2018	Soil	Stage 2B						X	X					
41655	4401996091	ES-6-50.0-20180102	440-199609-6		1/2/2018	Soil	Stage 2B						X	X					
41655	4401996091	ES-6-60.0-20180102	440-199609-7		1/2/2018	Soil	Stage 2B						X	X					
41655	4401996091	ES-6-70.0-20180102	440-199609-8		1/2/2018	Soil	Stage 2B						X	X					
41655	4401996091	ES-6-80.0-20180102	440-199609-9	FD20	1/2/2018	Soil	Stage 2B						X	X					
41655	4401996091	ES-6-80.0-20180102-FD	440-199609-10	FD20	1/2/2018	Soil	Stage 2B						X	X					
41655	4401996091	ES-6-90.0-20180103	440-199609-11		1/3/2018	Soil	Stage 2B						X	X					
41655	4401996091	ES-6-100.0-20180103	440-199609-12		1/3/2018	Soil	Stage 2B						X	X					
41655	4401996091	ES-6-110.0-20180103	440-199609-13		1/3/2018	Soil	Stage 2B						X	X					
41655	4401996091	ES-6-120.0-20180103	440-199609-14		1/3/2018	Soil	Stage 2B						X	X					
41655	4401996091	ES-30-10.0-20180102	440-199609-15		1/2/2018	Soil	Stage 2B						X	X					
41655	4401996091	ES-30-20.0-20180102	440-199609-16	FD21	1/2/2018	Soil	Stage 2B						X	X					
41655	4401996091	ES-30-20.0-20180102-FD	440-199609-17	FD21	1/2/2018	Soil	Stage 2B						X	X					
41655	4401996091	ES-30-30.0-20180103	440-199609-18		1/3/2018	Soil	Stage 2B						X	X					
41655	4401996091	ES-30-40.0-20180103	440-199609-19		1/3/2018	Soil	Stage 2B						X	X					
41655	4401996091	ES-30-50.0-20180103	440-199609-20		1/3/2018	Soil	Stage 2B						X	X					
41655	4401996091	ES-30-60.0-20180103	440-199609-21		1/3/2018	Soil	Stage 2B						X	X					
41655	4401996091	ES-30-70.0-20180103	440-199609-22		1/3/2018	Soil	Stage 2B						X	X					
41655	4401996091	ES-30-80.0-20180103	440-199609-23	FD22	1/3/2018	Soil	Stage 2B						X	X					
41655	4401996091	ES-30-80.0-20180103-FD	440-199609-24	FD22	1/3/2018	Soil	Stage 2B						X	X					
41655	4401997691	ES-30-90.0-20180103	440-199769-1		1/3/2018	Soil	Stage 2B						X	X					
41655	4401997691	ES-30-100.0-20180103	440-199769-2		1/3/2018	Soil	Stage 2B						X	X					
41655	4401997691	ES-30-110.0-20180103	440-199769-3		1/3/2018	Soil	Stage 2B						X	X					
41655	4401997691	ES-30-120.0-20180103	440-199769-4		1/3/2018	Soil	Stage 2B						X	X					
41655	4401997691	ES-31-10.0-20180104	440-199769-5		1/4/2018	Soil	Stage 2B						X	X					
41655	4401997691	ES-31-20.0-20180104	440-199769-6		1/4/2018	Soil	Stage 2B						X	X					
41655	4401997691	ES-31-30.0-20180104	440-199769-7		1/4/2018	Soil	Stage 2B						X	X					
41655	4401997691	ES-31-40.0-20180104	440-199769-8		1/4/2018	Soil	Stage 2B						X	X					

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LDC	SDG	Client ID	Lab ID	QC Type	Sample Date	Matrix	Validation Level	VOC (8260B SIM)	Metals (200.7)	Chromium (6010B)	CrVI (218.6)	Anions (300.0)	Chlorate (300.1B)	Perchlorate (314.0)	Alkalinity (2320)	TDS (2540C)	DOC (5310B)	Sulfide (9034)	pH (9040C)
41655	4401997691	ES-31-50.0-20180104	440-199769-9		1/4/2018	Soil	Stage 2B						X	X					
41655	4401997691	ES-31-60.0-20180104	440-199769-10		1/4/2018	Soil	Stage 2B						X	X					
41655	4401997691	ES-31-70.0-20180104	440-199769-11		1/4/2018	Soil	Stage 2B						X	X					
41655	4401997691	ES-31-80.0-20180104	440-199769-12		1/4/2018	Soil	Stage 2B						X	X					
41655	4401997691	ES-31-90.0-20180104	440-199769-13		1/4/2018	Soil	Stage 2B						X	X					
41655	4401997691	ES-31-100.0-20180104	440-199769-14		1/4/2018	Soil	Stage 2B						X	X					
41655	4401997691	ES-31-110.0-20180104	440-199769-15		1/4/2018	Soil	Stage 2B						X	X					
41655	4401997691	ES-31-120.0-20180104	440-199769-16		1/4/2018	Soil	Stage 2B						X	X					
41655	4401997691	ES-29-10.0-20180105	440-199769-17		1/5/2018	Soil	Stage 2B						X	X					
41655	4401997691	ES-29-20.0-20180105	440-199769-18		1/5/2018	Soil	Stage 2B						X	X					
41655	4401997691	ES-29-30.0-20180105	440-199769-19		1/5/2018	Soil	Stage 2B						X	X					
41655	4401999421	AA-UW2-20180108	440-199942-1	FD23	1/8/2018	Water	Stage 2A		X			X	X	X	X	X			
41655	4401999421	AA-UW2-20180108-FD	440-199942-2	FD23	1/8/2018	Water	Stage 2A		X			X	X	X	X	X			
41655	4401999421	AA-UW4-20180108	440-199942-3		1/8/2018	Water	Stage 2A		X			X	X	X	X	X			
41655	4401999471	ES-29-40.0-20180105	440-199947-1		1/5/2018	Soil	Stage 2B						X	X					
41655	4401999471	ES-29-50.0-20180105	440-199947-2		1/5/2018	Soil	Stage 2B						X	X					
41655	4401999471	ES-29-60.0-20180106	440-199947-3		1/6/2018	Soil	Stage 2B						X	X					
41655	4401999471	ES-29-70.0-20180106	440-199947-4		1/6/2018	Soil	Stage 2B						X	X					
41655	4401999471	ES-29-80.0-20180106	440-199947-5		1/6/2018	Soil	Stage 2B						X	X					
41655	4401999471	ES-29-90.0-20180106	440-199947-6		1/6/2018	Soil	Stage 2B						X	X					
41655	4401999471	ES-29-100.0-20180106	440-199947-7		1/6/2018	Soil	Stage 2B						X	X					
41655	4401999471	ES-29-110.0-20180106	440-199947-8		1/6/2018	Soil	Stage 2B						X	X					
41655	4401999471	ES-29-120.0-20180106	440-199947-9		1/6/2018	Soil	Stage 2B						X	X					
41655	4401999471	ES-28-10.0-20180106	440-199947-10		1/6/2018	Soil	Stage 2B						X	X					
41655	4401999471	ES-28-20.0-20180106	440-199947-11	FD24	1/6/2018	Soil	Stage 2B						X	X					
41655	4401999471	ES-28-20.0-20180106-FD	440-199947-12	FD24	1/6/2018	Soil	Stage 2B						X	X					
41655	4401999471	ES-28-30.0-20180106	440-199947-13		1/6/2018	Soil	Stage 2B						X	X					
41655	4401999471	ES-28-40.0-20180107	440-199947-14		1/7/2018	Soil	Stage 2B						X	X					
41655	4401999471	ES-28-50.0-20180107	440-199947-15		1/7/2018	Soil	Stage 2B						X	X					

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LDC	SDG	Client ID	Lab ID	QC Type	Sample Date	Matrix	Validation Level	VOC (8260B SIM)	Metals (200.7)	Chromium (6010B)	CrVI (218.6)	Anions (300.0)	Chlorate (300.1B)	Perchlorate (314.0)	Alkalinity (2320)	TDS (2540C)	DOC (5310B)	Sulfide (9034)	pH (9040C)
41655	4401999471	ES-28-60.0-20180107	440-199947-16		1/7/2018	Soil	Stage 2B						X	X					
41655	4401999471	ES-28-70.0-20180107	440-199947-17		1/7/2018	Soil	Stage 2B						X	X					
41655	4401999471	ES-28-80.0-20180107	440-199947-18	FD25	1/7/2018	Soil	Stage 2B						X	X					
41655	4401999471	ES-28-80.0-20180107-FD	440-199947-19	FD25	1/7/2018	Soil	Stage 2B						X	X					
41655	4401999471	ES-28-90.0-20180107	440-199947-20		1/7/2018	Soil	Stage 2B						X	X					
41655	4401999471	ES-28-100.0-20180107	440-199947-21		1/7/2018	Soil	Stage 2B						X	X					
41655	4401999471	ES-28-110.0-20180107	440-199947-22		1/7/2018	Soil	Stage 2B						X	X					
41655	4401999471	ES-28-120.0-20180107	440-199947-23		1/7/2018	Soil	Stage 2B						X	X					
41655	4401999471	ES-7-10.0-20180107	440-199947-24		1/7/2018	Soil	Stage 2B						X	X					
41655	4401999471	ES-7-20.0-20180107	440-199947-25		1/7/2018	Soil	Stage 2B						X	X					
41655	4401999471	ES-7-30.0-20180107	440-199947-26		1/7/2018	Soil	Stage 2B						X	X					
41655	4401999471	ES-7-40.0-20180108	440-199947-27		1/8/2018	Soil	Stage 2B						X	X					
41655	4401999471	ES-7-50.0-20180108	440-199947-28		1/8/2018	Soil	Stage 2B						X	X					
41655	4401999471	ES-7-60.0-20180108	440-199947-29		1/8/2018	Soil	Stage 2B						X	X					
41655	4401999471	ES-7-70.0-20180108	440-199947-30		1/8/2018	Soil	Stage 2B						X	X					
41655	4401999471	ES-7-80.0-20180108	440-199947-31		1/8/2018	Soil	Stage 2B						X	X					
41655	4401999471	ES-7-90.0-20180108	440-199947-32		1/8/2018	Soil	Stage 2B						X	X					
41655	4401999471	ES-7-100.0-20180108	440-199947-33		1/8/2018	Soil	Stage 2B						X	X					
41655	4401999471	ES-7-110.0-20180108	440-199947-34		1/8/2018	Soil	Stage 2B						X	X					
41655	4401999471	ES-7-120.0-20180108	440-199947-35		1/8/2018	Soil	Stage 2B						X	X					
41655	4402001321	AA-UW1-20180109	440-200132-1		1/9/2018	Water	Stage 2A		X			X	X	X	X	X			
41655	4402001321	AA-01-20180109	440-200132-2		1/9/2018	Water	Stage 2A		X			X	X	X	X	X			
41655	4402001331	ES-1-10.0-20180108	440-200133-1		1/8/2018	Soil	Stage 2B						X	X					
41655	4402001331	ES-1-20.0-20180108	440-200133-2	FD26	1/8/2018	Soil	Stage 2B						X	X					
41655	4402001331	ES-1-20.0-20180108-FD	440-200133-3	FD26	1/8/2018	Soil	Stage 2B						X	X					
41655	4402001331	ES-1-30.0-20180108	440-200133-4		1/8/2018	Soil	Stage 2B						X	X					
41655	4402001331	ES-1-40.0-20180108	440-200133-5		1/8/2018	Soil	Stage 2B						X	X					
41655	4402001331	ES-1-50.0-20180108	440-200133-6		1/8/2018	Soil	Stage 2B						X	X					
41655	4402001331	ES-1-60.0-20180108	440-200133-7		1/8/2018	Soil	Stage 2B						X	X					

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LDC	SDG	Client ID	Lab ID	QC Type	Sample Date	Matrix	Validation Level	VOC (8260B SIM)	Metals (200.7)	Chromium (6010B)	CrVI (218.6)	Anions (300.0)	Chlorate (300.1B)	Perchlorate (314.0)	Alkalinity (2320)	TDS (2540C)	DOC (5310B)	Sulfide (9034)	pH (9040C)
41655	4402001331	ES-1-70.0-20180108	440-200133-8		1/8/2018	Soil	Stage 2B						X	X					
41655	4402001331	ES-1-80.0-20180108	440-200133-9	FD27	1/8/2018	Soil	Stage 2B						X	X					
41655	4402001331	ES-1-80.0-20180108-FD	440-200133-10	FD27	1/8/2018	Soil	Stage 2B						X	X					
41655	4402001331	ES-1-90.0-20180108	440-200133-11		1/8/2018	Soil	Stage 2B						X	X					
41655	4402001331	ES-1-100.0-20180108	440-200133-12		1/8/2018	Soil	Stage 2B						X	X					
41655	4402001331	ES-1-110.0-20180109	440-200133-13		1/9/2018	Soil	Stage 2B						X	X					
41655	4402001331	ES-1-120.0-20180109	440-200133-14		1/9/2018	Soil	Stage 2B						X	X					
41655	4402004201	ES-4-20180109	440-200420-1		1/9/2018	Water	Stage 2A		X			X	X	X	X	X			
41655	4402004201	ES-3-20180110	440-200420-2		1/10/2018	Water	Stage 2A		X			X	X	X	X	X			
41655	4402004231	MCF-01B-20180110	440-200423-1		1/10/2018	Water	Stage 2A		X			X	X	X	X	X			
41655	4402004231	POU3-20180110	440-200423-2		1/10/2018	Water	Stage 2A		X			X	X	X	X	X			
41655	4402004231	AA-09-20180110	440-200423-3		1/10/2018	Water	Stage 2A		X			X	X	X	X	X			
41655	4402004231	MCF-09B-20180110	440-200423-4		1/10/2018	Water	Stage 2A		X			X	X	X	X	X			
41655	4402004231	AA-27-20180110	440-200423-5		1/10/2018	Water	Stage 2A		X			X	X	X	X	X			
41655	4402004231	POD7-R-20180110	440-200423-6	FD28	1/10/2018	Water	Stage 2A		X			X	X	X	X	X			
41655	4402004231	POD7-R-20180110-FD	440-200423-7	FD28	1/10/2018	Water	Stage 2A		X			X	X	X	X	X			
41655	4402006351	ES-6-20180111	440-200635-1		1/11/2018	Water	Stage 2A		X			X	X	X	X	X			
41655	4402006391	AA-13-20180111	440-200639-1		1/11/2018	Water	Stage 2A		X			X	X	X	X	X			
41655	4402006391	DM-1-20180111	440-200639-2		1/11/2018	Water	Stage 2A		X			X	X	X	X	X			
41655	4402006391	BEC-6-20180111	440-200639-3	FD29	1/11/2018	Water	Stage 2A		X			X	X	X	X	X			
41655	4402006391	BEC-6-20180111-FD	440-200639-4	FD29	1/11/2018	Water	Stage 2A		X			X	X	X	X	X			
41655	4402006391	MCF-32B-20180111	440-200639-5		1/11/2018	Water	Stage 2A		X			X	X	X	X	X			
41655	4402007231	ESB-9-10.0-20180110	440-200723-1		1/10/2018	Soil	Stage 2B						X	X					
41655	4402007231	ESB-9-20.0-20180110	440-200723-2	FD30	1/10/2018	Soil	Stage 2B						X	X					
41655	4402007231	ESB-9-20.0-20180110-FD	440-200723-3	FD30	1/10/2018	Soil	Stage 2B						X	X					
41655	4402007231	ESB-9-30.0-20180110	440-200723-4		1/10/2018	Soil	Stage 2B						X	X					
41655	4402007231	ESB-9-37.5-20180110	440-200723-5		1/10/2018	Soil	Stage 2B						X	X					
41655	4402007231	ESB-9-50.0-20180110	440-200723-6		1/10/2018	Soil	Stage 2B						X	X					
41655	4402007231	ESB-9-60.0-20180110	440-200723-7		1/10/2018	Soil	Stage 2B						X	X					

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LDC	SDG	Client ID	Lab ID	QC Type	Sample Date	Matrix	Validation Level	VOC (8260B SIM)	Metals (200.7)	Chromium (6010B)	CrVI (218.6)	Anions (300.0)	Chlorate (300.1B)	Perchlorate (314.0)	Alkalinity (2320)	TDS (2540C)	DOC (5310B)	Sulfide (9034)	pH (9040C)
41655	4402007231	ESB-9-70.0-20180110	440-200723-8		1/10/2018	Soil	Stage 2B						X	X					
41655	4402007231	ESB-9-80.0-20180110	440-200723-9	FD31	1/10/2018	Soil	Stage 2B						X	X					
41655	4402007231	ESB-9-80.0-20180110-FD	440-200723-10	FD31	1/10/2018	Soil	Stage 2B						X	X					
41655	4402007231	ESB-9-90.0-20180110	440-200723-11		1/10/2018	Soil	Stage 2B						X	X					
41655	4402007231	ESB-9-100.0-20180110	440-200723-12		1/10/2018	Soil	Stage 2B						X	X					
41655	4402007231	ESB-9-110.0-20180110	440-200723-13		1/10/2018	Soil	Stage 2B						X	X					
41655	4402007231	ESB-9-120.0-20180110	440-200723-14		1/10/2018	Soil	Stage 2B						X	X					
41655	4402007231	ESB-9-130.0-20180111	440-200723-15		1/11/2018	Soil	Stage 2B						X	X					
41655	4402007231	ESB-9-140.0-20180111	440-200723-16		1/11/2018	Soil	Stage 2B						X	X					
41655	4402007231	ESB-9-150.0-20180111	440-200723-17		1/11/2018	Soil	Stage 2B						X	X					
41655	4402007231	ESB-8-10.0-20180110	440-200723-18		1/10/2018	Soil	Stage 2B						X	X					
41655	4402007231	ESB-8-20.0-20180110	440-200723-19	FD32	1/10/2018	Soil	Stage 2B						X	X					
41655	4402007231	ESB-8-20.0-20180110-FD	440-200723-20	FD32	1/10/2018	Soil	Stage 2B						X	X					
41655	4402007231	ESB-8-30.0-20180110	440-200723-21		1/10/2018	Soil	Stage 2B						X	X					
41655	4402007231	ESB-8-40.0-20180110	440-200723-22		1/10/2018	Soil	Stage 2B						X	X					
41655	4402007231	ESB-8-50.0-20180110	440-200723-23		1/10/2018	Soil	Stage 2B						X	X					
41655	4402007231	ESB-8-60.0-20180110	440-200723-24		1/10/2018	Soil	Stage 2B						X	X					
41655	4402007231	ESB-8-70.0-20180110	440-200723-25		1/10/2018	Soil	Stage 2B						X	X					
41655	4402007231	ESB-8-80.0-20180110	440-200723-26	FD33	1/10/2018	Soil	Stage 2B						X	X					
41655	4402007231	ESB-8-80.0-20180110-FD	440-200723-27	FD33	1/10/2018	Soil	Stage 2B						X	X					
41655	4402007231	ESB-8-90.0-20180110	440-200723-28		1/10/2018	Soil	Stage 2B						X	X					
41655	4402007231	ESB-8-100.0-20180110	440-200723-29		1/10/2018	Soil	Stage 2B						X	X					
41655	4402007231	ESB-8-110.0-20180110	440-200723-30		1/10/2018	Soil	Stage 2B						X	X					
41655	4402007231	ESB-8-120.0-20180111	440-200723-31		1/11/2018	Soil	Stage 2B						X	X					
41655	4402007231	ESB-8-130.0-20180111	440-200723-32		1/11/2018	Soil	Stage 2B						X	X					
41655	4402007231	ESB-8-140.0-20180111	440-200723-33		1/11/2018	Soil	Stage 2B						X	X					
41655	4402007231	ESB-8-150.0-20180111	440-200723-34		1/11/2018	Soil	Stage 2B						X	X					
41655	4402010391	POD8-20180112	440-201039-1		1/12/2018	Water	Stage 2A		X			X	X	X	X	X			
41655	4402010391	POD8-20180112-FB	440-201039-2	FB	1/12/2018	Water	Stage 2A		X			X	X	X	X	X			

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LDC	SDG	Client ID	Lab ID	QC Type	Sample Date	Matrix	Validation Level	VOC (8260B SIM)	Metals (200.7)	Chromium (6010B)	CrVI (218.6)	Anions (300.0)	Chlorate (300.1B)	Perchlorate (314.0)	Alkalinity (2320)	TDS (2540C)	DOC (5310B)	Sulfide (9034)	pH (9040C)
41655	4402010441	ES-2-20180112	440-201044-1		1/12/2018	Water	Stage 2A		X			X	X	X	X	X			
41655	4402010641	HMWWT1-20180115	440-201064-1		1/15/2018	Water	Stage 2A		X			X	X	X	X	X			
41655	4402012121	MCF-27-20180116	440-201212-1		1/16/2018	Water	Stage 2A		X			X	X	X	X	X			
41655	4402012121	MCF-01A-20180116	440-201212-2	FD34	1/16/2018	Water	Stage 2A		X			X	X	X	X	X			
41655	4402012121	MCF-01A-20180116-FD	440-201212-3	FD34	1/16/2018	Water	Stage 2A		X			X	X	X	X	X			
41655	4402012121	MCF-11-20180116	440-201212-4		1/16/2018	Water	Stage 2A		X			X	X	X	X	X			
41655	4402012121	BEC-7-20180116-EB	440-201212-5	EB	1/16/2018	Water	Stage 2A		X			X	X	X	X	X			
41655	4402012121	BEC-7-20180116	440-201212-6		1/16/2018	Water	Stage 2A		X			X	X	X	X	X			
41655	4402012121	MCF-24A-20180116-FB	440-201212-7	FB	1/16/2018	Water	Stage 2A		X			X	X	X	X	X			
41655	4402012121	MCF-24A-20180116	440-201212-8		1/16/2018	Water	Stage 2A		X			X	X	X	X	X			
41655	4402012161	ES-29-20180115	440-201216-1		1/15/2018	Water	Stage 2A		X			X	X	X	X	X			
41655	4402012161	ES-28-20180116	440-201216-2		1/16/2018	Water	Stage 2A		X			X	X	X	X	X			
41655	4402013491	MCF-24B-20180117-FB	440-201349-1	FB	1/17/2018	Water	Stage 2A		X			X	X	X	X	X			
41655	4402013491	MCF-24B-20180117	440-201349-2		1/17/2018	Water	Stage 2A		X			X	X	X	X	X			
41655	4402013491	BEC-5-20180117-EB	440-201349-3	EB	1/17/2018	Water	Stage 2A		X			X	X	X	X	X			
41655	4402013491	BEC-5-20180117	440-201349-4		1/17/2018	Water	Stage 2A		X			X	X	X	X	X			
41655	4402013491	MCF-32A-20180117	440-201349-5		1/17/2018	Water	Stage 2A		X			X	X	X	X	X			
41655	4402013491	MCF-03B-20180117	440-201349-6	FD35	1/17/2018	Water	Stage 2A		X			X	X	X	X	X			
41655	4402013491	MCF-03B-20180117-FD	440-201349-7	FD35	1/17/2018	Water	Stage 2A		X			X	X	X	X	X			
41655	4402013491	MCF-03A-20180117	440-201349-8		1/17/2018	Water	Stage 2A		X			X	X	X	X	X			
41655	4402013521	ESB-13-10.0-20180116	440-201352-1		1/16/2018	Soil	Stage 2B			X			X	X					
41655	4402013521	ESB-13-20.0-20180116	440-201352-2	FD36	1/16/2018	Soil	Stage 2B			X			X	X					
41655	4402013521	ESB-13-20.0-20180116-FD	440-201352-3	FD36	1/16/2018	Soil	Stage 2B			X			X	X					
41655	4402013521	ESB-13-30.0-20180116	440-201352-4		1/16/2018	Soil	Stage 2B			X			X	X					
41655	4402013521	ESB-13-40.0-20180116	440-201352-5		1/16/2018	Soil	Stage 2B			X			X	X					
41655	4402013521	ESB-13-50.0-20180116	440-201352-6		1/16/2018	Soil	Stage 2B			X			X	X					
41655	4402013521	ESB-13-60.0-20180116	440-201352-7		1/16/2018	Soil	Stage 2B			X			X	X					
41655	4402013521	ESB-13-70.0-20180116	440-201352-8		1/16/2018	Soil	Stage 2B			X			X	X					
41655	4402013521	ESB-13-80.0-20180116	440-201352-9	FD37	1/16/2018	Soil	Stage 2B			X			X	X					

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LDC	SDG	Client ID	Lab ID	QC Type	Sample Date	Matrix	Validation Level	VOC (8260B SIM)	Metals (200.7)	Chromium (6010B)	CrVI (218.6)	Anions (300.0)	Chlorate (300.1B)	Perchlorate (314.0)	Alkalinity (2320)	TDS (2540C)	DOC (5310B)	Sulfide (9034)	pH (9040C)
41655	4402013521	ESB-13-80.0-20180116-FD	440-201352-10	FD37	1/16/2018	Soil	Stage 2B			X			X	X					
41655	4402013521	ESB-13-90.0-20180116	440-201352-11		1/16/2018	Soil	Stage 2B			X			X	X					
41655	4402013521	ESB-13-100.0-20180116	440-201352-12		1/16/2018	Soil	Stage 2B			X			X	X					
41655	4402013521	ESB-13-110.0-20180116	440-201352-13		1/16/2018	Soil	Stage 2B			X			X	X					
41655	4402013521	ESB-13-120.0-20180116	440-201352-14		1/16/2018	Soil	Stage 2B			X			X	X					
41655	4402013521	ESB-13-130.0-20180116	440-201352-15		1/16/2018	Soil	Stage 2B			X			X	X					
41655	4402013521	ESB-13-140.0-20180116	440-201352-16		1/16/2018	Soil	Stage 2B			X			X	X					
41655	4402013521	ESB-13-150.0-20180116	440-201352-17		1/16/2018	Soil	Stage 2B			X			X	X					
41655	4402014611	ES-1-20180117	440-201461-1		1/17/2018	Water	Stage 2A		X			X	X	X	X	X			
41655	4402014611	ES-30-20180118	440-201461-2		1/18/2018	Water	Stage 2A		X			X	X	X	X	X			
41655	4402014771	MCF-16A-20180118	440-201477-1		1/18/2018	Water	Stage 2A		X			X	X	X	X	X			
41655	4402014771	MCF-16B-20180118-FB	440-201477-2	FB	1/18/2018	Water	Stage 2A		X			X	X	X	X	X			
41655	4402014771	MCF-16B-20180118	440-201477-3		1/18/2018	Water	Stage 2A		X			X	X	X	X	X			
41655	4402014771	MCF-16C-20180118	440-201477-4	FD38	1/18/2018	Water	Stage 2A		X			X	X	X	X	X			
41655	4402014771	MCF-16C-20180118-FD	440-201477-5	FD38	1/18/2018	Water	Stage 2A		X			X	X	X	X	X			
41655	4402014771	BEC-10-20180118-EB	440-201477-6	EB	1/18/2018	Water	Stage 2A		X			X	X	X	X	X			
41655	4402014771	BEC-10-20180118	440-201477-7		1/18/2018	Water	Stage 2A		X			X	X	X	X	X			
41655	4402014771	BEC-9-20180118	440-201477-8		1/18/2018	Water	Stage 2A		X			X	X	X	X	X			
41655	4402015551	DBMW-1-20180119	440-201555-1	FD39	1/19/2018	Water	Stage 2A		X			X	X	X	X	X			
41655	4402015551	DBMW-1-20180119-FD	440-201555-2	FD39	1/19/2018	Water	Stage 2A		X			X	X	X	X	X			
41655	4402015551	DBMW-3-20180119-EB	440-201555-3	EB	1/19/2018	Water	Stage 2A		X			X	X	X	X	X			
41655	4402015551	DBMW-3-20180119	440-201555-4		1/19/2018	Water	Stage 2A		X			X	X	X	X	X			
41655	4402015551	MCF-05-20180119-FB	440-201555-5	FB	1/19/2018	Water	Stage 2A		X			X	X	X	X	X			
41655	4402015551	MCF-05-20180119	440-201555-6		1/19/2018	Water	Stage 2A		X			X	X	X	X	X			
41655	4402015571	ES-5-20180118	440-201557-1		1/18/2018	Water	Stage 2A		X			X	X	X	X	X			
41655	4402015571	ES-31-20180119	440-201557-2		1/19/2018	Water	Stage 2A		X			X	X	X	X	X			
41655	4402016731	MCF-06B-20180122	440-201673-1	FD40	1/22/2018	Water	Stage 2A		X			X	X	X	X	X			
41655	4402016731	MCF-06B-20180122-FD	440-201673-2	FD40	1/22/2018	Water	Stage 2A		X			X	X	X	X	X			
41655	4402016731	DBMW-8-20180122	440-201673-3		1/22/2018	Water	Stage 2A		X			X	X	X	X	X			

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41655	4402016731	DBMW-5-20180122	440-201673-4		1/22/2018	Water	Stage 2A		X			X	X	X	X	X			
41655	4402016731	DBMW-4-20180122	440-201673-5	FD41	1/22/2018	Water	Stage 2A		X			X	X	X	X	X			
41655	4402016731	DBMW-4-20180122-FD	440-201673-6	FD41	1/22/2018	Water	Stage 2A		X			X	X	X	X	X			
41655	4402016741	ES-12-10.0-20180120	440-201674-1		1/20/2018	Soil	Stage 4			X			X	X					
41655	4402016741	ES-12-20.0-20180120	440-201674-2		1/20/2018	Soil	Stage 4			X			X	X					
41655	4402016741	ES-12-30.0-20180120	440-201674-3		1/20/2018	Soil	Stage 4			X			X	X					
41655	4402016741	ES-12-40.0-20180120	440-201674-4		1/20/2018	Soil	Stage 4			X			X	X					
41655	4402016741	ES-12-50.0-20180120	440-201674-5		1/20/2018	Soil	Stage 4			X			X	X					
41655	4402016741	ES-12-60.0-20180120	440-201674-6		1/20/2018	Soil	Stage 4			X			X	X					
41655	4402016741	ES-12-70.0-20180120	440-201674-7		1/20/2018	Soil	Stage 4			X			X	X					
41655	4402016741	ES-12-80.0-20180120	440-201674-8		1/20/2018	Soil	Stage 4			X			X	X					
41655	4402016741	ES-12-90.0-20180120	440-201674-9		1/20/2018	Soil	Stage 4			X			X	X					
41655	4402016741	ES-12-100.0-20180121	440-201674-10		1/21/2018	Soil	Stage 4			X			X	X					
41655	4402016741	ES-12-110.0-20180121	440-201674-11		1/21/2018	Soil	Stage 4			X			X	X					
41655	4402016741	ES-12-120.0-20180121	440-201674-12		1/21/2018	Soil	Stage 4			X			X	X					
41655	4402017581	DBMW-18-20180123	440-201758-1		1/23/2018	Water	Stage 2A		X			X	X	X	X	X			
41655	4402017581	DBMW-17-20180123	440-201758-2	FD42	1/23/2018	Water	Stage 2A		X			X	X	X	X	X			
41655	4402017581	DBMW-17-20180123-FD	440-201758-3	FD42	1/23/2018	Water	Stage 2A		X			X	X	X	X	X			
41655	4402017581	DBMW-16-20180123	440-201758-4		1/23/2018	Water	Stage 2A		X			X	X	X	X	X			
41655	4402017581	DBMW-15-20180123	440-201758-5		1/23/2018	Water	Stage 2A		X			X	X	X	X	X			
41655	4402017581	DBMW-15-20180123-EB	440-201758-6	EB	1/23/2018	Water	Stage 2A		X			X	X	X	X	X			
41655	4402017581	DBMW-7-20180123-EB	440-201758-7	EB	1/23/2018	Water	Stage 2A		X			X	X	X	X	X			
41655	4402017581	DBMW-7-20180123	440-201758-8		1/23/2018	Water	Stage 2A		X			X	X	X	X	X			
41655	4402017581	DBMW-13-20180123-FB	440-201758-9	FB	1/23/2018	Water	Stage 2A		X			X	X	X	X	X			
41655	4402017581	DBMW-13-20180123	440-201758-10		1/23/2018	Water	Stage 2A		X			X	X	X	X	X			
41655	4402017581	POD7-20180123	440-201758-11	FD43	1/23/2018	Water	Stage 2A		X			X	X	X	X	X			
41655	4402017581	POD7-20180123-FD	440-201758-12	FD43	1/23/2018	Water	Stage 2A		X			X	X	X	X	X			
41655	4402018741	ES-13-10.0-20180122	440-201874-1		1/22/2018	Soil	Stage 2B			X			X	X					
41655	4402018741	ES-13-20.0-20180122	440-201874-2	FD44	1/22/2018	Soil	Stage 2B			X			X	X					

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41655	4402018741	ES-13-20.0-20180122-FD	440-201874-3	FD44	1/22/2018	Soil	Stage 2B			X			X	X					
41655	4402018741	ES-13-30.0-20180122	440-201874-4		1/22/2018	Soil	Stage 2B			X			X	X					
41655	4402018741	ES-13-40.0-20180123	440-201874-5		1/23/2018	Soil	Stage 2B			X			X	X					
41655	4402018741	ES-13-50.0-20180123	440-201874-6		1/23/2018	Soil	Stage 2B			X			X	X					
41655	4402018741	ES-13-60.0-20180123	440-201874-7		1/23/2018	Soil	Stage 2B			X			X	X					
41655	4402018741	ES-13-70.0-20180123	440-201874-8		1/23/2018	Soil	Stage 2B			X			X	X					
41655	4402018741	ES-13-80.0-20180123	440-201874-9	FD45	1/23/2018	Soil	Stage 2B			X			X	X					
41655	4402018741	ES-13-80.0-20180123-FD	440-201874-10	FD45	1/23/2018	Soil	Stage 2B			X			X	X					
41655	4402018741	ES-13-90.0-20180123	440-201874-11		1/23/2018	Soil	Stage 2B			X			X	X					
41655	4402018741	ES-13-100.0-20180123	440-201874-12		1/23/2018	Soil	Stage 2B			X			X	X					
41655	4402018741	ES-13-110.0-20180123	440-201874-13		1/23/2018	Soil	Stage 2B			X			X	X					
41655	4402018741	ES-13-120.0-20180123	440-201874-14		1/23/2018	Soil	Stage 2B			X			X	X					
41894	4402018861	BEC-12-20180124	440-201886-1		1/24/2018	Water	Stage 2A		X			X	X	X	X	X			
41894	4402018861	HMW-18-20180124	440-201886-2		1/24/2018	Water	Stage 2A		X			X	X	X	X	X			
41894	4402018861	MCF-06A-R-20180124	440-201886-3	FD46	1/24/2018	Water	Stage 2A		X			X	X	X	X	X			
41894	4402018861	MCF-06A-R-20180124-FD	440-201886-4	FD46	1/24/2018	Water	Stage 2A		X			X	X	X	X	X			
41894	4402018861	AA-UW5-20180124	440-201886-5		1/24/2018	Water	Stage 2A		X			X	X	X	X	X			
41894	4402018861	HMWWT6-20180124	440-201886-6		1/24/2018	Water	Stage 2A		X			X	X	X	X	X			
41894	4402023721	ES-12-20180131	440-202372-1		1/31/2018	Water	Stage 2A		X			X	X	X	X	X			
41894	4402023821	ES-20-10.0-20180130	440-202382-1		1/30/2018	Soil	Stage 2B			X			X	X					
41894	4402023821	ES-20-20.0-20180130	440-202382-2	FD47	1/30/2018	Soil	Stage 2B			X			X	X					
41894	4402023821	ES-20-20.0-20180130-FD	440-202382-3	FD47	1/30/2018	Soil	Stage 2B			X			X	X					
41894	4402023821	ES-20-30.0-20180130	440-202382-4		1/30/2018	Soil	Stage 2B			X			X	X					
41894	4402023821	ES-20-40.0-20180130	440-202382-5		1/30/2018	Soil	Stage 2B			X			X	X					
41894	4402023821	ES-20-50.0-20180130	440-202382-6		1/30/2018	Soil	Stage 2B			X			X	X					
41894	4402023821	ES-20-60.0-20180130	440-202382-7		1/30/2018	Soil	Stage 2B			X			X	X					
41894	4402023821	ES-20-70.0-20180130	440-202382-8		1/30/2018	Soil	Stage 2B			X			X	X					
41894	4402023821	ES-20-80.0-20180130	440-202382-9	FD48	1/30/2018	Soil	Stage 2B			X			X	X					
41894	4402023821	ES-20-80.0-20180130-FD	440-202382-10	FD48	1/30/2018	Soil	Stage 2B			X			X	X					

Table I. Sample Cross-Reference

LDC	SDG	Client ID	Lab ID	QC Type	Sample Date	Matrix	Validation Level	VOC (8260B SIM)	Metals (200.7)	Chromium (6010B)	CrVI (218.6)	Anions (300.0)	Chlorate (300.1B)	Perchlorate (314.0)	Alkalinity (2320)	TDS (2540C)	DOC (5310B)	Sulfide (9034)	pH (9040C)
41894	4402023821	ES-20-90.0-20180130	440-202382-11		1/30/2018	Soil	Stage 2B			X			X	X					
41894	4402023821	ES-20-100.0-20180130	440-202382-12		1/30/2018	Soil	Stage 2B			X			X	X					
41894	4402023821	ES-20-110.0-20180130	440-202382-13		1/30/2018	Soil	Stage 2B			X			X	X					
41894	4402023821	ES-20-120.0-20180131	440-202382-14		1/31/2018	Soil	Stage 2B			X			X	X					
41894	4402023821	ES-20-130.0-20180131	440-202382-15		1/31/2018	Soil	Stage 2B			X			X	X					
41894	4402023821	ES-20-140.0-20180131	440-202382-16		1/31/2018	Soil	Stage 2B			X			X	X					
41894	4402023821	ES-20-150.0-20180131	440-202382-17		1/31/2018	Soil	Stage 2B			X			X	X					
41894	4402023821	ES-20-160.0-20180131	440-202382-18		1/31/2018	Soil	Stage 2B			X			X	X					
41894	4402023821	ES-20-170.0-20180131	440-202382-19		1/31/2018	Soil	Stage 2B			X			X	X					
41894	4402023821	ES-20-180.0-20180131	440-202382-20		1/31/2018	Soil	Stage 2B			X			X	X					
41894	4402023821	ES-20-190.0-20180131	440-202382-21		1/31/2018	Soil	Stage 2B			X			X	X					
41894	4402023821	ES-20-200.0-20180131	440-202382-22		1/31/2018	Soil	Stage 2B			X			X	X					
41895	4402027131	ES-20-20180204	440-202713-1		2/4/2018	Water	Stage 2A		X			X	X	X	X	X			
41895	4402027171	ESB-15-10.0-20180204	440-202717-1		2/4/2018	Soil	Stage 2B			X			X	X					
41895	4402027171	ESB-15-20.0-20180204	440-202717-2	FD49	2/4/2018	Soil	Stage 2B			X			X	X					
41895	4402027171	ESB-15-20.0-20180204-FD	440-202717-3	FD49	2/4/2018	Soil	Stage 2B			X			X	X					
41895	4402027171	ESB-15-30.0-20180204	440-202717-4		2/4/2018	Soil	Stage 2B			X			X	X					
41895	4402027171	ESB-15-40.0-20180204	440-202717-5		2/4/2018	Soil	Stage 2B			X			X	X					
41895	4402027171	ESB-15-50.0-20180204	440-202717-6		2/4/2018	Soil	Stage 2B			X			X	X					
41895	4402027171	ESB-15-60.0-20180204	440-202717-7		2/4/2018	Soil	Stage 2B			X			X	X					
41895	4402027171	ESB-15-70.0-20180204	440-202717-8		2/4/2018	Soil	Stage 2B			X			X	X					
41895	4402027171	ESB-15-80.0-20180204	440-202717-9	FD50	2/4/2018	Soil	Stage 2B			X			X	X					
41895	4402027171	ESB-15-80.0-20180204-FD	440-202717-10	FD50	2/4/2018	Soil	Stage 2B			X			X	X					
41895	4402027171	ESB-15-90.0-20180204	440-202717-11		2/4/2018	Soil	Stage 2B			X			X	X					
41895	4402027171	ESB-15-100.0-20180204	440-202717-12		2/4/2018	Soil	Stage 2B			X			X	X					
41895	4402027171	ESB-15-110.0-20180204	440-202717-13		2/4/2018	Soil	Stage 2B			X			X	X					
41895	4402027171	ESB-15-120.0-20180204	440-202717-14		2/4/2018	Soil	Stage 2B			X			X	X					
41895	4402027171	ESB-15-130.0-20180204	440-202717-15		2/4/2018	Soil	Stage 2B			X			X	X					
41895	4402027171	ESB-15-140.0-20180205	440-202717-16		2/5/2018	Soil	Stage 2B			X			X	X					

Table I. Sample Cross-Reference

LDC	SDG	Client ID	Lab ID	QC Type	Sample Date	Matrix	Validation Level	VOC (8260B SIM)	Metals (200.7)	Chromium (6010B)	CrVI (218.6)	Anions (300.0)	Chlorate (300.1B)	Perchlorate (314.0)	Alkalinity (2320)	TDS (2540C)	DOC (5310B)	Sulfide (9034)	pH (9040C)
41895	4402027171	ESB-15-150.0-20180205	440-202717-17		2/5/2018	Soil	Stage 2B			X			X	X					
41895	4402030391	ES-32-20180207	440-203039-1		2/7/2018	Water	Stage 2A		X			X	X	X	X	X			
41895	4402036811	ES-8-10.0-20180215	440-203681-1		2/15/2018	Soil	Stage 2B						X	X					
41895	4402036811	ES-8-20.0-20180215	440-203681-2	FD51	2/15/2018	Soil	Stage 2B						X	X					
41895	4402036811	ES-8-20.0-20180215-FD	440-203681-3	FD51	2/15/2018	Soil	Stage 2B						X	X					
41895	4402036811	ES-8-30.0-20180215	440-203681-4		2/15/2018	Soil	Stage 2B						X	X					
41895	4402036811	ES-8-40.0-20180215	440-203681-5		2/15/2018	Soil	Stage 2B						X	X					
41895	4402036811	ES-8-50.0-20180215	440-203681-6		2/15/2018	Soil	Stage 2B						X	X					
41895	4402036811	ES-8-60.0-20180215	440-203681-7		2/15/2018	Soil	Stage 2B						X	X					
41895	4402036811	ES-8-70.0-20180215	440-203681-8		2/15/2018	Soil	Stage 2B						X	X					
41895	4402036811	ES-8-80.0-20180215	440-203681-9	FD52	2/15/2018	Soil	Stage 2B						X	X					
41895	4402036811	ES-8-80.0-20180215-FD	440-203681-10	FD52	2/15/2018	Soil	Stage 2B						X	X					
41895	4402036811	ES-8-90.0-20180215	440-203681-11		2/15/2018	Soil	Stage 2B						X	X					
41895	4402036811	ES-8-100.0-20180215	440-203681-12		2/15/2018	Soil	Stage 2B						X	X					
41895	4402036811	ES-8-110.0-20180215	440-203681-13		2/15/2018	Soil	Stage 2B						X	X					
41895	4402036811	ES-8-120.0-20180215	440-203681-14		2/15/2018	Soil	Stage 2B						X	X					
41895	4402036811	ES-10-10.0-20180216	440-203681-15		2/16/2018	Soil	Stage 2B						X	X					
41895	4402036811	ES-10-20.0-20180216	440-203681-16		2/16/2018	Soil	Stage 2B						X	X					
41895	4402036811	ES-10-30.0-20180216	440-203681-17		2/16/2018	Soil	Stage 2B						X	X					
41895	4402036811	ES-10-40.0-20180216	440-203681-18		2/16/2018	Soil	Stage 2B						X	X					
41895	4402036811	ES-10-50.0-20180216	440-203681-19		2/16/2018	Soil	Stage 2B						X	X					
41895	4402036811	ES-10-60.0-20180216	440-203681-20		2/16/2018	Soil	Stage 2B						X	X					
41895	4402036811	ES-10-70.0-20180216	440-203681-21		2/16/2018	Soil	Stage 2B						X	X					
41895	4402036811	ES-10-80.0-20180216	440-203681-22		2/16/2018	Soil	Stage 2B						X	X					
41895	4402036811	ES-10-90.0-20180216	440-203681-23		2/16/2018	Soil	Stage 2B						X	X					
41895	4402036811	ES-10-100.0-20180216	440-203681-24		2/16/2018	Soil	Stage 2B						X	X					
41895	4402036811	ES-10-110.0-20180216	440-203681-25		2/16/2018	Soil	Stage 2B						X	X					
41895	4402036811	ES-10-120.0-20180216	440-203681-26		2/16/2018	Soil	Stage 2B						X	X					
41895	4402037721	ES-14-10.0-20180217	440-203772-1		2/17/2018	Soil	Stage 2B						X	X					

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LDC	SDG	Client ID	Lab ID	QC Type	Sample Date	Matrix	Validation Level	VOC (8260B SIM)	Metals (200.7)	Chromium (6010B)	CrVI (218.6)	Anions (300.0)	Chlorate (300.1B)	Perchlorate (314.0)	Alkalinity (2320)	TDS (2540C)	DOC (5310B)	Sulfide (9034)	pH (9040C)
41895	4402037721	ES-14-20.0-20180217	440-203772-2		2/17/2018	Soil	Stage 2B						X	X					
41895	4402037721	ES-14-30.0-20180217	440-203772-3		2/17/2018	Soil	Stage 2B						X	X					
41895	4402037721	ES-14-40.0-20180217	440-203772-4		2/17/2018	Soil	Stage 2B						X	X					
41895	4402037721	ES-14-50.0-20180217	440-203772-5		2/17/2018	Soil	Stage 2B						X	X					
41895	4402037721	ES-14-60.0-20180217	440-203772-6		2/17/2018	Soil	Stage 2B						X	X					
41895	4402037721	ES-14-70.0-20180217	440-203772-7		2/17/2018	Soil	Stage 2B						X	X					
41895	4402037721	ES-14-80.0-20180217	440-203772-8		2/17/2018	Soil	Stage 2B						X	X					
41895	4402037721	ES-14-90.0-20180217	440-203772-9		2/17/2018	Soil	Stage 2B						X	X					
41895	4402037721	ES-14-100.0-20180218	440-203772-10		2/18/2018	Soil	Stage 2B						X	X					
41895	4402037721	ES-14-110.0-20180218	440-203772-11		2/18/2018	Soil	Stage 2B						X	X					
41895	4402037721	ES-14-120.0-20180218	440-203772-12		2/18/2018	Soil	Stage 2B						X	X					
41895	4402037721	ESB-14-10.0-20180217	440-203772-13		2/17/2018	Soil	Stage 2B						X	X					
41895	4402037721	ESB-14-20.0-20180217	440-203772-14		2/17/2018	Soil	Stage 2B						X	X					
41895	4402037721	ESB-14-30.0-20180218	440-203772-15		2/18/2018	Soil	Stage 2B						X	X					
41895	4402037721	ESB-14-40.0-20180218	440-203772-16		2/18/2018	Soil	Stage 2B						X	X					
41895	4402037721	ESB-14-50.0-20180218	440-203772-17		2/18/2018	Soil	Stage 2B						X	X					
41895	4402037721	ESB-14-60.0-20180218	440-203772-18		2/18/2018	Soil	Stage 2B						X	X					
41895	4402037721	ESB-14-70.0-20180218	440-203772-19		2/18/2018	Soil	Stage 2B						X	X					
41895	4402037721	ESB-14-80.0-20180218	440-203772-20		2/18/2018	Soil	Stage 2B						X	X					
41895	4402037721	ESB-14-90.0-20180218	440-203772-21		2/18/2018	Soil	Stage 2B						X	X					
41895	4402037721	ESB-14-100.0-20180218	440-203772-22		2/18/2018	Soil	Stage 2B						X	X					
41895	4402037721	ESB-14-110.0-20180218	440-203772-23		2/18/2018	Soil	Stage 2B						X	X					
41895	4402037721	ESB-14-120.0-20180218	440-203772-24		2/18/2018	Soil	Stage 2B						X	X					
41895	4402037721	ESB-14-130.0-20180218	440-203772-25		2/18/2018	Soil	Stage 2B						X	X					
41895	4402037721	ESB-14-140.0-20180218	440-203772-26		2/18/2018	Soil	Stage 2B						X	X					
41895	4402037721	ESB-14-150.0-20180218	440-203772-27		2/18/2018	Soil	Stage 2B						X	X					
41895	4402037721	ES-11-10.0-20180219	440-203772-28		2/19/2018	Soil	Stage 2B						X	X					
41895	4402037721	ES-11-20.0-20180219	440-203772-29		2/19/2018	Soil	Stage 2B						X	X					
41895	4402037721	ES-11-30.0-20180219	440-203772-30	FD53	2/19/2018	Soil	Stage 2B						X	X					

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LDC	SDG	Client ID	Lab ID	QC Type	Sample Date	Matrix	Validation Level	VOC (8260B SIM)	Metals (200.7)	Chromium (6010B)	CrVI (218.6)	Anions (300.0)	Chlorate (300.1B)	Perchlorate (314.0)	Alkalinity (2320)	TDS (2540C)	DOC (5310B)	Sulfide (9034)	pH (9040C)
41895	4402037721	ES-11-30.0-20180219-FD	440-203772-31	FD53	2/19/2018	Soil	Stage 2B						X	X					
41895	4402037721	ES-11-40.0-20180219	440-203772-32		2/19/2018	Soil	Stage 2B						X	X					
41895	4402037721	ES-11-50.0-20180219	440-203772-33		2/19/2018	Soil	Stage 2B						X	X					
41895	4402037721	ES-11-60.0-20180219	440-203772-34		2/19/2018	Soil	Stage 2B						X	X					
41895	4402037721	ES-11-70.0-20180219	440-203772-35		2/19/2018	Soil	Stage 2B						X	X					
41895	4402037721	ES-11-80.0-20180219	440-203772-36		2/19/2018	Soil	Stage 2B						X	X					
41895	4402037721	ES-11-90.0-20180219	440-203772-37		2/19/2018	Soil	Stage 2B						X	X					
41895	4402037721	ES-11-100.0-20180219	440-203772-38	FD54	2/19/2018	Soil	Stage 2B						X	X					
41895	4402037721	ES-11-100.0-20180219-FD	440-203772-39	FD54	2/19/2018	Soil	Stage 2B						X	X					
41895	4402037721	ES-11-110.0-20180219	440-203772-40		2/19/2018	Soil	Stage 2B						X	X					
41895	4402037721	ES-11-120.0-20180219	440-203772-41		2/19/2018	Soil	Stage 2B						X	X					
41895	4402037731	ES-29-20180217	440-203773-1	FD55	2/17/2018	Water	Stage 2A		X			X	X	X	X	X			
41895	4402037731	ES-29-20180217-FD	440-203773-2	FD55	2/17/2018	Water	Stage 2A		X			X	X	X	X	X			
41895	4402037731	ES-8B-20180217	440-203773-3		2/17/2018	Water	Stage 2A		X			X	X	X	X	X			
41895	4402037731	ES-8A-20180218	440-203773-4		2/18/2018	Water	Stage 2A		X			X	X	X	X	X			
41895	4402039431	ES-9-10.0-20180220	440-203943-1		2/20/2018	Soil	Stage 2B						X	X					
41895	4402039431	ES-9-20.0-20180220	440-203943-2	FD56	2/20/2018	Soil	Stage 2B						X	X					
41895	4402039431	ES-9-20.0-20180220-FD	440-203943-3	FD56	2/20/2018	Soil	Stage 2B						X	X					
41895	4402039431	ES-9-30.0-20180220	440-203943-4		2/20/2018	Soil	Stage 2B						X	X					
41895	4402039431	ES-9-40.0-20180220	440-203943-5		2/20/2018	Soil	Stage 2B						X	X					
41895	4402039431	ES-9-50.0-20180220	440-203943-6		2/20/2018	Soil	Stage 2B						X	X					
41895	4402039431	ES-9-60.0-20180220	440-203943-7		2/20/2018	Soil	Stage 2B						X	X					
41895	4402039431	ES-9-70.0-20180220	440-203943-8		2/20/2018	Soil	Stage 2B						X	X					
41895	4402039431	ES-9-80.0-20180220	440-203943-9	FD57	2/20/2018	Soil	Stage 2B						X	X					
41895	4402039431	ES-9-80.0-20180220-FD	440-203943-10	FD57	2/20/2018	Soil	Stage 2B						X	X					
41895	4402039431	ES-9-90.0-20180220	440-203943-11		2/20/2018	Soil	Stage 2B						X	X					
41895	4402039431	ES-9-100.0-20180220	440-203943-12		2/20/2018	Soil	Stage 2B						X	X					
41895	4402039431	ES-9-110.0-20180220	440-203943-13		2/20/2018	Soil	Stage 2B						X	X					
41895	4402039431	ES-9-120.0-20180220	440-203943-14		2/20/2018	Soil	Stage 2B						X	X					

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LDC	SDG	Client ID	Lab ID	QC Type	Sample Date	Matrix	Validation Level	VOC (8260B SIM)	Metals (200.7)	Chromium (6010B)	CrVI (218.6)	Anions (300.0)	Chlorate (300.1B)	Perchlorate (314.0)	Alkalinity (2320)	TDS (2540C)	DOC (5310B)	Sulfide (9034)	pH (9040C)
41895	4402039431	ESB-16-10.0-20180220	440-203943-15		2/20/2018	Soil	Stage 2B						X	X					
41895	4402039431	ESB-16-20.0-20180220	440-203943-16	FD58	2/20/2018	Soil	Stage 2B						X	X					
41895	4402039431	ESB-16-20.0-20180220-FD	440-203943-17	FD58	2/20/2018	Soil	Stage 2B						X	X					
41895	4402039431	ESB-16-30.0-20180220	440-203943-18		2/20/2018	Soil	Stage 2B						X	X					
41895	4402039431	ESB-16-40.0-20180221	440-203943-19		2/21/2018	Soil	Stage 2B						X	X					
41895	4402039431	ESB-16-50.0-20180221	440-203943-20		2/21/2018	Soil	Stage 2B						X	X					
41895	4402039431	ESB-16-60.0-20180221	440-203943-21		2/21/2018	Soil	Stage 2B						X	X					
41895	4402039431	ESB-16-70.0-20180221	440-203943-22		2/21/2018	Soil	Stage 2B						X	X					
41895	4402039431	ESB-16-90.0-20180221	440-203943-23	FD59	2/21/2018	Soil	Stage 2B						X	X					
41895	4402039431	ESB-16-90.0-20180221-FD	440-203943-24	FD59	2/21/2018	Soil	Stage 2B						X	X					
41895	4402039431	ESB-16-80.0-20180221	440-203943-25		2/21/2018	Soil	Stage 2B						X	X					
41895	4402039431	ESB-16-100.0-20180221	440-203943-26		2/21/2018	Soil	Stage 2B						X	X					
41895	4402039431	ESB-16-110.0-20180221	440-203943-27		2/21/2018	Soil	Stage 2B						X	X					
41895	4402039431	ESB-16-120.0-20180221	440-203943-28		2/21/2018	Soil	Stage 2B						X	X					
41895	4402039431	ESB-16-130.0-20180221	440-203943-29		2/21/2018	Soil	Stage 2B						X	X					
41895	4402039431	ESB-16-140.0-20180221	440-203943-30		2/21/2018	Soil	Stage 2B						X	X					
41895	4402039431	ESB-16-150.0-20180221	440-203943-31		2/21/2018	Soil	Stage 2B						X	X					
41895	4402045331	ESB-18-10.0-20180227	440-204533-1		2/27/2018	Soil	Stage 4						X	X					
41895	4402045331	ESB-18-20.0-20180227	440-204533-2	FD60	2/27/2018	Soil	Stage 4						X	X					
41895	4402045331	ESB-18-20.0-20180227-FD	440-204533-3	FD60	2/27/2018	Soil	Stage 4						X	X					
41895	4402045331	ESB-18-30.0-20180227	440-204533-4		2/27/2018	Soil	Stage 4						X	X					
41895	4402045331	ESB-18-40.0-20180227	440-204533-5		2/27/2018	Soil	Stage 4						X	X					
41895	4402045331	ESB-18-50.0-20180227	440-204533-6		2/27/2018	Soil	Stage 4						X	X					
41895	4402045331	ESB-18-60.0-20180227	440-204533-7		2/27/2018	Soil	Stage 4						X	X					
41895	4402045331	ESB-18-70.0-20180227	440-204533-8		2/27/2018	Soil	Stage 4						X	X					
41895	4402045331	ESB-18-80.0-20180227	440-204533-9	FD61	2/27/2018	Soil	Stage 4						X	X					
41895	4402045331	ESB-18-80.0-20180227-FD	440-204533-10	FD61	2/27/2018	Soil	Stage 4						X	X					
41895	4402045331	ESB-18-90.0-20180227	440-204533-11		2/27/2018	Soil	Stage 4						X	X					
41895	4402045331	ESB-18-100.0-20180227	440-204533-12		2/27/2018	Soil	Stage 4						X	X					

Table I. Sample Cross-Reference

LDC	SDG	Client ID	Lab ID	QC Type	Sample Date	Matrix	Validation Level	VOC (8260B SIM)	Metals (200.7)	Chromium (6010B)	CrVI (218.6)	Anions (300.0)	Chlorate (300.1B)	Perchlorate (314.0)	Alkalinity (2320)	TDS (2540C)	DOC (5310B)	Sulfide (9034)	pH (9040C)
41895	4402045331	ESB-18-110.0-20180227	440-204533-13		2/27/2018	Soil	Stage 4						X	X					
41895	4402045331	ESB-18-120.0-20180227	440-204533-14		2/27/2018	Soil	Stage 4						X	X					
41895	4402045331	ESB-18-130.0-20180227	440-204533-15		2/27/2018	Soil	Stage 4						X	X					
41895	4402045331	ESB-18-140.0-20180227	440-204533-16		2/27/2018	Soil	Stage 4						X	X					
41895	4402045331	ESB-18-150.0-20180227	440-204533-17		2/27/2018	Soil	Stage 4						X	X					
41895	4402045371	ESB-17-10.0-20180227	440-204537-1		2/27/2018	Soil	Stage 2B						X	X					
41895	4402045371	ESB-17-20.0-20180227	440-204537-2		2/27/2018	Soil	Stage 2B						X	X					
41895	4402045371	ESB-17-30.0-20180227	440-204537-3		2/27/2018	Soil	Stage 2B						X	X					
41895	4402045371	ESB-17-40.0-20180227	440-204537-4		2/27/2018	Soil	Stage 2B						X	X					
41895	4402045371	ESB-17-50.0-20180227	440-204537-5		2/27/2018	Soil	Stage 2B						X	X					
41895	4402045371	ESB-17-60.0-20180227	440-204537-6		2/27/2018	Soil	Stage 2B						X	X					
41895	4402045371	ESB-17-70.0-20180227	440-204537-7		2/27/2018	Soil	Stage 2B						X	X					
41895	4402045371	ESB-17-80.0-20180227	440-204537-8		2/27/2018	Soil	Stage 2B						X	X					
41895	4402045371	ESB-17-90.0-20180227	440-204537-9		2/27/2018	Soil	Stage 2B						X	X					
41895	4402045371	ESB-17-100.0-20180227	440-204537-10		2/27/2018	Soil	Stage 2B						X	X					
41895	4402045371	ESB-17-110.0-20180227	440-204537-11		2/27/2018	Soil	Stage 2B						X	X					
41895	4402045371	ESB-17-120.0-20180227	440-204537-12		2/27/2018	Soil	Stage 2B						X	X					
41895	4402045371	ESB-17-130.0-20180227	440-204537-13		2/27/2018	Soil	Stage 2B						X	X					
41895	4402045371	ESB-17-140.0-20180227	440-204537-14		2/27/2018	Soil	Stage 2B						X	X					
41895	4402045371	ESB-17-150.0-20180227	440-204537-15		2/27/2018	Soil	Stage 2B						X	X					
41895	4402045921	ES-16-10.0-20180228	440-204592-1		2/28/2018	Soil	Stage 2B			X			X	X					
41895	4402045921	ES-16-20.0-20180228	440-204592-2	FD62	2/28/2018	Soil	Stage 2B			X			X	X					
41895	4402045921	ES-16-20.0-20180228-FD	440-204592-3	FD62	2/28/2018	Soil	Stage 2B			X			X	X					
41895	4402045921	ES-16-30.0-20180228	440-204592-4		2/28/2018	Soil	Stage 2B			X			X	X					
41895	4402045921	ES-16-40.0-20180228	440-204592-5		2/28/2018	Soil	Stage 2B			X			X	X					
41895	4402045921	ES-16-50.0-20180228	440-204592-6		2/28/2018	Soil	Stage 2B			X			X	X					
41895	4402045921	ES-16-60.0-20180228	440-204592-7		2/28/2018	Soil	Stage 2B			X			X	X					
41895	4402045921	ES-16-70.0-20180228	440-204592-8		2/28/2018	Soil	Stage 2B			X			X	X					
41895	4402045921	ES-16-80.0-20180228	440-204592-9	FD63	2/28/2018	Soil	Stage 2B			X			X	X					

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LDC	SDG	Client ID	Lab ID	QC Type	Sample Date	Matrix	Validation Level	VOC (8260B SIM)	Metals (200.7)	Chromium (6010B)	CrVI (218.6)	Anions (300.0)	Chlorate (300.1B)	Perchlorate (314.0)	Alkalinity (2320)	TDS (2540C)	DOC (5310B)	Sulfide (9034)	pH (9040C)
41895	4402045921	ES-16-80.0-20180228-FD	440-204592-10	FD63	2/28/2018	Soil	Stage 2B			X			X	X					
41895	4402045921	ES-16-90.0-20180228	440-204592-11		2/28/2018	Soil	Stage 2B			X			X	X					
41895	4402045921	ES-16-100.0-20180228	440-204592-12		2/28/2018	Soil	Stage 2B			X			X	X					
41895	4402045921	ES-19-10.0-20180228	440-204592-13		2/28/2018	Soil	Stage 2B						X	X					
41895	4402045921	ES-19-20.0-20180228	440-204592-14		2/28/2018	Soil	Stage 2B						X	X					
41895	4402045921	ES-19-30.0-20180228	440-204592-15		2/28/2018	Soil	Stage 2B						X	X					
41895	4402045921	ES-19-40.0-20180228	440-204592-16		2/28/2018	Soil	Stage 2B						X	X					
41895	4402045921	ES-19-50.0-20180228	440-204592-17		2/28/2018	Soil	Stage 2B						X	X					
41895	4402045921	ES-19-60.0-20180228	440-204592-18		2/28/2018	Soil	Stage 2B						X	X					
41895	4402045921	ES-19-70.0-20180228	440-204592-19		2/28/2018	Soil	Stage 2B						X	X					
41895	4402045921	ES-19-80.0-20180228	440-204592-20		2/28/2018	Soil	Stage 2B						X	X					
41895	4402045921	ES-19-90.0-20180228	440-204592-21		2/28/2018	Soil	Stage 2B						X	X					
41895	4402045921	ES-19-100.0-20180228	440-204592-22		2/28/2018	Soil	Stage 2B						X	X					
41895	4402045921	ES-19-110.0-20180228	440-204592-23		2/28/2018	Soil	Stage 2B						X	X					
41895	4402045921	ES-19-120.0-20180301	440-204592-24		3/1/2018	Soil	Stage 2B						X	X					
41895	4402045921	ES-19-130.0-20180301	440-204592-25		3/1/2018	Soil	Stage 2B						X	X					
41895	4402045921	ES-19-140.0-20180301	440-204592-26		3/1/2018	Soil	Stage 2B						X	X					
41895	4402045921	ES-19-150.0-20180301	440-204592-27		3/1/2018	Soil	Stage 2B						X	X					
41895	4402045921	ES-19-160.0-20180301	440-204592-28		3/1/2018	Soil	Stage 2B						X	X					
41895	4402045921	ES-19-170.0-20180301	440-204592-29		3/1/2018	Soil	Stage 2B						X	X					
41895	4402045921	ES-19-180.0-20180301	440-204592-30		3/1/2018	Soil	Stage 2B						X	X					
41895	4402045921	ES-19-190.0-20180301	440-204592-31		3/1/2018	Soil	Stage 2B						X	X					
41895	4402045921	ES-19-200.0-20180301	440-204592-32		3/1/2018	Soil	Stage 2B						X	X					
41895	4402045921	ES-16-110.0-20180228	440-204592-33		2/28/2018	Soil	Stage 2B						X	X					
41895	4402045921	ES-16-120.0-20180301	440-204592-34		3/1/2018	Soil	Stage 2B						X	X					
41897	4402047301	ES-18-10.0-20180302	440-204730-1		3/2/2018	Soil	Stage 2B						X	X					
41897	4402047301	ES-18-20.0-20180302	440-204730-2	FD64	3/2/2018	Soil	Stage 2B						X	X					
41897	4402047301	ES-18-20.0-20180302-FD	440-204730-3	FD64	3/2/2018	Soil	Stage 2B						X	X					
41897	4402047301	ES-18-30.0-20180302	440-204730-4		3/2/2018	Soil	Stage 2B						X	X					

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LDC	SDG	Client ID	Lab ID	QC Type	Sample Date	Matrix	Validation Level	VOC (8260B SIM)	Metals (200.7)	Chromium (6010B)	CrVI (218.6)	Anions (300.0)	Chlorate (300.1B)	Perchlorate (314.0)	Alkalinity (2320)	TDS (2540C)	DOC (5310B)	Sulfide (9034)	pH (9040C)
41897	4402047301	ES-18-40.0-20180302	440-204730-5		3/2/2018	Soil	Stage 2B						X	X					
41897	4402047301	ES-18-50.0-20180302	440-204730-6		3/2/2018	Soil	Stage 2B						X	X					
41897	4402047301	ES-18-60.0-20180302	440-204730-7		3/2/2018	Soil	Stage 2B						X	X					
41897	4402047301	ES-18-70.0-20180302	440-204730-8		3/2/2018	Soil	Stage 2B						X	X					
41897	4402047301	ES-18-80.0-20180302	440-204730-9	FD65	3/2/2018	Soil	Stage 2B						X	X					
41897	4402047301	ES-18-80.0-20180302-FD	440-204730-10	FD65	3/2/2018	Soil	Stage 2B						X	X					
41897	4402047301	ES-18-90.0-20180302	440-204730-11		3/2/2018	Soil	Stage 2B						X	X					
41897	4402047301	ES-18-100.0-20180302	440-204730-12		3/2/2018	Soil	Stage 2B						X	X					
41897	4402047301	ES-18-110.0-20180302	440-204730-13		3/2/2018	Soil	Stage 2B						X	X					
41897	4402047301	ES-18-120.0-20180302	440-204730-14		3/2/2018	Soil	Stage 2B						X	X					
41897	4402051171	ES-25B-10.0-20180306	440-205117-1		3/6/2018	Soil	Stage 2B						X	X					
41897	4402051171	ES-25B-20.0-20180306	440-205117-2	FD66	3/6/2018	Soil	Stage 2B						X	X					
41897	4402051171	ES-25B-20.0-20180306-FD	440-205117-3	FD66	3/6/2018	Soil	Stage 2B						X	X					
41897	4402051171	ES-25B-30.0-20180306	440-205117-4		3/6/2018	Soil	Stage 2B						X	X					
41897	4402051171	ES-25B-40.0-20180306	440-205117-5		3/6/2018	Soil	Stage 2B						X	X					
41897	4402051171	ES-25B-50.0-20180306	440-205117-6		3/6/2018	Soil	Stage 2B						X	X					
41897	4402051171	ES-25B-60.0-20180306	440-205117-7		3/6/2018	Soil	Stage 2B						X	X					
41897	4402051171	ES-25B-70.0-20180306	440-205117-8		3/6/2018	Soil	Stage 2B						X	X					
41897	4402051171	ES-25B-80.0-20180306	440-205117-9	FD67	3/6/2018	Soil	Stage 2B						X	X					
41897	4402051171	ES-25B-80.0-20180306-FD	440-205117-10	FD67	3/6/2018	Soil	Stage 2B						X	X					
41897	4402051171	ES-25B-90.0-20180306	440-205117-11		3/6/2018	Soil	Stage 2B						X	X					
41897	4402051171	ES-25B-100.0-20180306	440-205117-12		3/6/2018	Soil	Stage 2B						X	X					
41897	4402051171	ES-25B-110.0-20180306	440-205117-13		3/6/2018	Soil	Stage 2B						X	X					
41897	4402051171	ES-25B-120.0-20180306	440-205117-14		3/6/2018	Soil	Stage 2B						X	X					
41897	4402051171	ES-26-10.0-20180306	440-205117-15		3/6/2018	Soil	Stage 2B						X	X					
41897	4402051171	ES-26-20.0-20180306	440-205117-16	FD68	3/6/2018	Soil	Stage 2B						X	X					
41897	4402051171	ES-26-20.0-20180306-FD	440-205117-17	FD68	3/6/2018	Soil	Stage 2B						X	X					
41897	4402051171	ES-26-30.0-20180306	440-205117-18		3/6/2018	Soil	Stage 2B						X	X					
41897	4402051171	ES-26-40.0-20180306	440-205117-19		3/6/2018	Soil	Stage 2B						X	X					

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LDC	SDG	Client ID	Lab ID	QC Type	Sample Date	Matrix	Validation Level	VOC (8260B SIM)	Metals (200.7)	Chromium (6010B)	CrVI (218.6)	Anions (300.0)	Chlorate (300.1B)	Perchlorate (314.0)	Alkalinity (2320)	TDS (2540C)	DOC (5310B)	Sulfide (9034)	pH (9040C)
41897	4402051171	ES-26-50.0-20180306	440-205117-20		3/6/2018	Soil	Stage 2B						X	X					
41897	4402051171	ES-26-60.0-20180306	440-205117-21		3/6/2018	Soil	Stage 2B						X	X					
41897	4402051171	ES-26-70.0-20180306	440-205117-22		3/6/2018	Soil	Stage 2B						X	X					
41897	4402051171	ES-26-80.0-20180306	440-205117-23	FD69	3/6/2018	Soil	Stage 2B						X	X					
41897	4402051171	ES-26-80.0-20180306-FD	440-205117-24	FD69	3/6/2018	Soil	Stage 2B						X	X					
41897	4402051171	ES-26-90.0-20180306	440-205117-25		3/6/2018	Soil	Stage 2B						X	X					
41897	4402051171	ES-26-100.0-20180306	440-205117-26		3/6/2018	Soil	Stage 2B						X	X					
41897	4402051171	ES-26-110.0-20180306	440-205117-27		3/6/2018	Soil	Stage 2B						X	X					
41897	4402051171	ES-26-120.0-20180306	440-205117-28		3/6/2018	Soil	Stage 2B						X	X					
41897	4402051291	ES-7-20180303	440-205129-1		3/3/2018	Water	Stage 2A		X			X	X	X	X	X			
41897	4402051291	ES-13-20180306	440-205129-2		3/6/2018	Water	Stage 2A		X			X	X	X	X	X			
41897	4402053321	ES-7-20180307	440-205332-1		3/7/2018	Water	Stage 2A		X			X	X	X	X	X			
41897	4402053381	ES-27-10.0-20180307	440-205338-1		3/7/2018	Soil	Stage 2B			X			X	X					
41897	4402053381	ES-27-20.0-20180307	440-205338-2	FD70	3/7/2018	Soil	Stage 2B			X			X	X					
41897	4402053381	ES-27-20.0-20180307-FD	440-205338-3	FD70	3/7/2018	Soil	Stage 2B			X			X	X					
41897	4402053381	ES-27-30.0-20180307	440-205338-4		3/7/2018	Soil	Stage 2B			X			X	X					
41897	4402053381	ES-27-40.0-20180307	440-205338-5		3/7/2018	Soil	Stage 2B			X			X	X					
41897	4402053381	ES-27-50.0-20180307	440-205338-6		3/7/2018	Soil	Stage 2B			X			X	X					
41897	4402053381	ES-27-60.0-20180307	440-205338-7		3/7/2018	Soil	Stage 2B			X			X	X					
41897	4402053381	ES-27-70.0-20180307	440-205338-8		3/7/2018	Soil	Stage 2B			X			X	X					
41897	4402053381	ES-27-80.0-20180307	440-205338-9	FD71	3/7/2018	Soil	Stage 2B			X			X	X					
41897	4402053381	ES-27-80.0-20180307-FD	440-205338-10	FD71	3/7/2018	Soil	Stage 2B			X			X	X					
41897	4402053381	ES-27-90.0-20180307	440-205338-11		3/7/2018	Soil	Stage 2B			X			X	X					
41897	4402053381	ES-27-100.0-20180307	440-205338-12		3/7/2018	Soil	Stage 2B			X			X	X					
41897	4402053381	ES-27-110.0-20180307	440-205338-13		3/7/2018	Soil	Stage 2B			X			X	X					
41897	4402053381	ES-27-120.0-20180307	440-205338-14		3/7/2018	Soil	Stage 2B			X			X	X					
41897	4402054641	ES-10-20180307	440-205464-1		3/7/2018	Water	Stage 2A		X			X	X	X	X	X			
41897	4402059321	ES-19-20180313	440-205932-1		3/13/2018	Water	Stage 2A		X			X	X	X	X	X			
41897	4402059321	ES-27-20180314	440-205932-2		3/14/2018	Water	Stage 2A		X			X	X	X	X	X			

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LDC	SDG	Client ID	Lab ID	QC Type	Sample Date	Matrix	Validation Level	VOC (8260B SIM)	Metals (200.7)	Chromium (6010B)	CrVI (218.6)	Anions (300.0)	Chlorate (300.1B)	Perchlorate (314.0)	Alkalinity (2320)	TDS (2540C)	DOC (5310B)	Sulfide (9034)	pH (9040C)
41897	4402061981	ES-26-20180315	440-206198-1		3/15/2018	Water	Stage 2A		X			X	X	X	X	X			
41897	4402061981	ES-25A-20180316	440-206198-2		3/16/2018	Water	Stage 2A		X			X	X	X	X	X			
41897	4402063471	ESB-10-10.0-20180316	440-206347-1		3/16/2018	Soil	Stage 2B						X	X					
41897	4402063471	ESB-10-20.0-20180316	440-206347-2	FD72	3/16/2018	Soil	Stage 2B						X	X					
41897	4402063471	ESB-10-20.0-20180316-FD	440-206347-3	FD72	3/16/2018	Soil	Stage 2B						X	X					
41897	4402063471	ESB-10-30.0-20180316	440-206347-4		3/16/2018	Soil	Stage 2B						X	X					
41897	4402063471	ESB-10-40.0-20180316	440-206347-5		3/16/2018	Soil	Stage 2B						X	X					
41897	4402063471	ESB-10-50.0-20180316	440-206347-6		3/16/2018	Soil	Stage 2B						X	X					
41897	4402063471	ESB-10-60.0-20180316	440-206347-7		3/16/2018	Soil	Stage 2B						X	X					
41897	4402063471	ESB-10-70.0-20180316	440-206347-8		3/16/2018	Soil	Stage 2B						X	X					
41897	4402063471	ESB-10-80.0-20180316	440-206347-9	FD73	3/16/2018	Soil	Stage 2B						X	X					
41897	4402063471	ESB-10-80.0-20180316-FD	440-206347-10	FD73	3/16/2018	Soil	Stage 2B						X	X					
41897	4402063471	ESB-10-90.0-20180316	440-206347-11		3/16/2018	Soil	Stage 2B						X	X					
41897	4402063471	ESB-10-100.0-20180316	440-206347-12		3/16/2018	Soil	Stage 2B						X	X					
41897	4402063471	ESB-10-110.0-20180316	440-206347-13		3/16/2018	Soil	Stage 2B						X	X					
41897	4402063471	ESB-10-120.0-20180316	440-206347-14		3/16/2018	Soil	Stage 2B						X	X					
41897	4402063471	ESB-10-130.0-20180316	440-206347-15		3/16/2018	Soil	Stage 2B						X	X					
41897	4402063471	ESB-10-140.0-20180317	440-206347-16		3/17/2018	Soil	Stage 2B						X	X					
41897	4402063471	ESB-10-150.0-20180317	440-206347-17		3/17/2018	Soil	Stage 2B						X	X					
41897	4402063471	ESB-12-10.0-20180318	440-206347-18		3/18/2018	Soil	Stage 2B						X	X					
41897	4402063471	ESB-12-20.0-20180318	440-206347-19	FD74	3/18/2018	Soil	Stage 2B						X	X					
41897	4402063471	ESB-12-20.0-20180318-FD	440-206347-20	FD74	3/18/2018	Soil	Stage 2B						X	X					
41897	4402063471	ESB-12-30.0-20180318	440-206347-21		3/18/2018	Soil	Stage 2B						X	X					
41897	4402063471	ESB-12-40.0-20180318	440-206347-22		3/18/2018	Soil	Stage 2B						X	X					
41897	4402063471	ESB-12-50.0-20180318	440-206347-23		3/18/2018	Soil	Stage 2B						X	X					
41897	4402063471	ESB-12-60.0-20180318	440-206347-24		3/18/2018	Soil	Stage 2B						X	X					
41897	4402063471	ESB-12-70.0-20180318	440-206347-25		3/18/2018	Soil	Stage 2B						X	X					
41897	4402063471	ESB-12-80.0-20180318	440-206347-26	FD75	3/18/2018	Soil	Stage 2B						X	X					
41897	4402063471	ESB-12-80.0-20180318-FD	440-206347-27	FD75	3/18/2018	Soil	Stage 2B						X	X					

Table I. Sample Cross-Reference

LDC	SDG	Client ID	Lab ID	QC Type	Sample Date	Matrix	Validation Level	VOC (8260B SIM)	Metals (200.7)	Chromium (6010B)	CrVI (218.6)	Anions (300.0)	Chlorate (300.1B)	Perchlorate (314.0)	Alkalinity (2320)	TDS (2540C)	DOC (5310B)	Sulfide (9034)	pH (9040C)
41897	4402063471	ESB-12-90.0-20180318	440-206347-28		3/18/2018	Soil	Stage 2B						X	X					
41897	4402063471	ESB-12-100.0-20180318	440-206347-29		3/18/2018	Soil	Stage 2B						X	X					
41897	4402063471	ESB-12-110.0-20180318	440-206347-30		3/18/2018	Soil	Stage 2B						X	X					
41897	4402063471	ESB-12-120.0-20180318	440-206347-31		3/18/2018	Soil	Stage 2B						X	X					
41897	4402063471	ESB-12-130.0-20180318	440-206347-32		3/18/2018	Soil	Stage 2B						X	X					
41897	4402063471	ESB-12-140.0-20180318	440-206347-33		3/18/2018	Soil	Stage 2B						X	X					
41897	4402063471	ESB-12-150.0-20180318	440-206347-34		3/18/2018	Soil	Stage 2B						X	X					
41897	4402063561	ES-25B-20180319	440-206356-1		3/19/2018	Water	Stage 2A		X			X	X	X	X	X			
41897	4402064851	ESB-11-10.0-20180319	440-206485-1		3/19/2018	Soil	Stage 2B						X	X					
41897	4402064851	ESB-11-20.0-20180319	440-206485-2	FD76	3/19/2018	Soil	Stage 2B						X	X					
41897	4402064851	ESB-11-20.0-20180319-FD	440-206485-3	FD76	3/19/2018	Soil	Stage 2B						X	X					
41897	4402064851	ESB-11-30.0-20180319	440-206485-4		3/19/2018	Soil	Stage 2B						X	X					
41897	4402064851	ESB-11-40.0-20180319	440-206485-5		3/19/2018	Soil	Stage 2B						X	X					
41897	4402064851	ESB-11-50.0-20180319	440-206485-6		3/19/2018	Soil	Stage 2B						X	X					
41897	4402064851	ESB-11-60.0-20180319	440-206485-7		3/19/2018	Soil	Stage 2B						X	X					
41897	4402064851	ESB-11-70.0-20180319	440-206485-8		3/19/2018	Soil	Stage 2B						X	X					
41897	4402064851	ESB-11-80.0-20180319	440-206485-9	FD77	3/19/2018	Soil	Stage 2B						X	X					
41897	4402064851	ESB-11-80.0-20180319-FD	440-206485-10	FD77	3/19/2018	Soil	Stage 2B						X	X					
41897	4402064851	ESB-11-90.0-20180319	440-206485-11		3/19/2018	Soil	Stage 2B						X	X					
41897	4402064851	ESB-11-100.0-20180319	440-206485-12		3/19/2018	Soil	Stage 2B						X	X					
41897	4402064851	ESB-11-110.0-20180319	440-206485-13		3/19/2018	Soil	Stage 2B						X	X					
41897	4402064851	ESB-11-120.0-20180319	440-206485-14		3/19/2018	Soil	Stage 2B						X	X					
41897	4402064851	ESB-11-130.0-20180319	440-206485-15		3/19/2018	Soil	Stage 2B						X	X					
41897	4402064851	ESB-11-140.0-20180319	440-206485-16		3/19/2018	Soil	Stage 2B						X	X					
41897	4402064851	ESB-11-150.0-20180319	440-206485-17		3/19/2018	Soil	Stage 2B						X	X					
41897	4402064851	ES-17-10.0-20180319	440-206485-18		3/19/2018	Soil	Stage 2B						X	X					
41897	4402064851	ES-17-20.0-20180319	440-206485-19	FD78	3/19/2018	Soil	Stage 2B						X	X					
41897	4402064851	ES-17-20.0-20180319-FD	440-206485-20	FD78	3/19/2018	Soil	Stage 2B						X	X					
41897	4402064851	ES-17-30.0-20180319	440-206485-21		3/19/2018	Soil	Stage 2B						X	X					

Table I. Sample Cross-Reference

LDC	SDG	Client ID	Lab ID	QC Type	Sample Date	Matrix	Validation Level	VOC (8260B SIM)	Metals (200.7)	Chromium (6010B)	CrVI (218.6)	Anions (300.0)	Chlorate (300.1B)	Perchlorate (314.0)	Alkalinity (2320)	TDS (2540C)	DOC (5310B)	Sulfide (9034)	pH (9040C)
41897	4402064851	ES-17-40.0-20180319	440-206485-22		3/19/2018	Soil	Stage 2B						X	X					
41897	4402064851	ES-17-50.0-20180319	440-206485-23		3/19/2018	Soil	Stage 2B						X	X					
41897	4402064851	ES-17-60.0-20180319	440-206485-24		3/19/2018	Soil	Stage 2B						X	X					
41897	4402064851	ES-17-70.0-20180319	440-206485-25		3/19/2018	Soil	Stage 2B						X	X					
41897	4402064851	ES-17-80.0-20180319	440-206485-26	FD79	3/19/2018	Soil	Stage 2B						X	X					
41897	4402064851	ES-17-80.0-20180319-FD	440-206485-27	FD79	3/19/2018	Soil	Stage 2B						X	X					
41897	4402064851	ES-17-90.0-20180319	440-206485-28		3/19/2018	Soil	Stage 2B						X	X					
41897	4402064851	ES-17-100.0-20180319	440-206485-29		3/19/2018	Soil	Stage 2B						X	X					
41897	4402064851	ES-17-110.0-20180319	440-206485-30		3/19/2018	Soil	Stage 2B						X	X					
41897	4402064851	ES-17-120.0-20180319	440-206485-31		3/19/2018	Soil	Stage 2B						X	X					
41897	4402064851	ES-15-10.0-20180320	440-206485-32		3/20/2018	Soil	Stage 2B						X	X					
41897	4402064851	ES-15-20.0-20180320	440-206485-33	FD80	3/20/2018	Soil	Stage 2B						X	X					
41897	4402064851	ES-15-20.0-20180320-FD	440-206485-34	FD80	3/20/2018	Soil	Stage 2B						X	X					
41897	4402064851	ES-15-30.0-20180320	440-206485-35		3/20/2018	Soil	Stage 2B						X	X					
41897	4402064851	ES-15-40.0-20180320	440-206485-36		3/20/2018	Soil	Stage 2B						X	X					
41897	4402064851	ES-15-50.0-20180320	440-206485-37		3/20/2018	Soil	Stage 2B						X	X					
41897	4402064851	ES-15-60.0-20180320	440-206485-38		3/20/2018	Soil	Stage 2B						X	X					
41897	4402064851	ES-15-70.0-20180320	440-206485-39		3/20/2018	Soil	Stage 2B						X	X					
41897	4402064851	ES-15-80.0-20180320	440-206485-40	FD81	3/20/2018	Soil	Stage 2B						X	X					
41897	4402064851	ES-15-80.0-20180320-FD	440-206485-41	FD81	3/20/2018	Soil	Stage 2B						X	X					
41897	4402064851	ES-15-90.0-20180320	440-206485-42		3/20/2018	Soil	Stage 2B						X	X					
41897	4402064851	ES-15-100.0-20180320	440-206485-43		3/20/2018	Soil	Stage 2B						X	X					
41897	4402064851	ES-15-110.0-20180320	440-206485-44		3/20/2018	Soil	Stage 2B						X	X					
41897	4402064851	ES-15-120.0-20180320	440-206485-45		3/20/2018	Soil	Stage 2B						X	X					
41897	4402071821	MCF-01A-20180326	440-207182-1		3/26/2018	Water	Stage 2A		X			X	X	X	X	X			X
41897	4402071821	MCF-01B-20180326	440-207182-2		3/26/2018	Water	Stage 2A		X			X	X	X	X	X			X
41897	4402071821	ES-1-20180326	440-207182-3		3/26/2018	Water	Stage 2A		X			X	X	X	X	X			X
41897	4402071821	ES-1-20180326-EB	440-207182-4	EB	3/26/2018	Water	Stage 2A		X			X	X	X	X	X			X
41897	4402071821	AA-01-20180326	440-207182-5		3/26/2018	Water	Stage 2A		X			X	X	X	X	X			X

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LDC	SDG	Client ID	Lab ID	QC Type	Sample Date	Matrix	Validation Level	VOC (8260B SIM)	Metals (200.7)	Chromium (6010B)	CrVI (218.6)	Anions (300.0)	Chlorate (300.1B)	Perchlorate (314.0)	Alkalinity (2320)	TDS (2540C)	DOC (5310B)	Sulfide (9034)	pH (9040C)
41897	4402073011	AA-27-20180327	440-207301-1		3/27/2018	Water	Stage 2A		X			X	X	X	X	X			X
41897	4402073011	MCF-27-20180327	440-207301-2		3/27/2018	Water	Stage 2A		X			X	X	X	X	X			X
41897	4402073011	MCF-03A-20180327	440-207301-3	FD82	3/27/2018	Water	Stage 2A		X			X	X	X	X	X			X
41897	4402073011	MCF-03A-20180327-FD	440-207301-4	FD82	3/27/2018	Water	Stage 2A		X			X	X	X	X	X			X
41897	4402073011	MCF-03B-20180327	440-207301-5		3/27/2018	Water	Stage 2A		X			X	X	X	X	X			X
41897	4402073011	AA-UW5-20180327	440-207301-6		3/27/2018	Water	Stage 2A		X			X	X	X	X	X			X
41897	4402073011	AA-UW1-20180327	440-207301-7		3/27/2018	Water	Stage 2A		X			X	X	X	X	X			X
41897	4402073011	AA-UW2-20180327	440-207301-8		3/27/2018	Water	Stage 2A		X			X	X	X	X	X			X
41897	4402073011	AA-UW4-20180327	440-207301-9		3/27/2018	Water	Stage 2A		X			X	X	X	X	X			X
41897	4402073011	MCF-32B-20180327	440-207301-10		3/27/2018	Water	Stage 2A		X			X	X	X	X	X			X
41897	4402073011	ES-8A-20180327-FB	440-207301-11	FB	3/27/2018	Water	Stage 2A		X			X	X	X	X	X			X
41897	4402073011	ES-8A-20180327	440-207301-12		3/27/2018	Water	Stage 2A		X			X	X	X	X	X			X
41897	4402074641	ES-8B-20180328	440-207464-1		3/28/2018	Water	Stage 2A		X			X	X	X	X	X			X
41897	4402074641	MCF-32A-20180328	440-207464-2		3/28/2018	Water	Stage 2A		X			X	X	X	X	X			X
41897	4402074641	HMWWT1-20180328	440-207464-3		3/28/2018	Water	Stage 2A		X			X	X	X	X	X			X
41897	4402074641	ES-3-20180328	440-207464-4	FD83	3/28/2018	Water	Stage 2A		X			X	X	X	X	X			X
41897	4402074641	ES-3-20180328-FD	440-207464-5	FD83	3/28/2018	Water	Stage 2A		X			X	X	X	X	X			X
41897	4402075151	DBMW-9-20180329	440-207515-1	FD84	3/29/2018	Water	Stage 2A		X			X	X	X	X	X			
41897	4402075151	DBMW-9-20180329-FD	440-207515-2	FD84	3/29/2018	Water	Stage 2A		X			X	X	X	X	X			
41897	4402075151	DBMW-10-20180329-EB	440-207515-3	EB	3/29/2018	Water	Stage 2A		X			X	X	X	X	X			
41897	4402075151	DBMW-10-20180329	440-207515-4		3/29/2018	Water	Stage 2A		X			X	X	X	X	X			
41897	4402075151	AA-18-20180329	440-207515-5		3/29/2018	Water	Stage 2A		X			X	X	X	X	X			
41897	4402075151	DBMW-12-20180329	440-207515-6		3/29/2018	Water	Stage 2A		X			X	X	X	X	X			
41897	4402076941	MW-11-20180330	440-207694-1		3/30/2018	Water	Stage 2A		X			X	X	X	X	X			X
41897	4402076941	MW-10-20180330	440-207694-2		3/30/2018	Water	Stage 2A		X			X	X	X	X	X			X
41897	4402076941	MW-18-20180330	440-207694-3		3/30/2018	Water	Stage 2A		X			X	X	X	X	X			X
41897	4402076941	MW-05-20180330	440-207694-4		3/30/2018	Water	Stage 2A		X			X	X	X	X	X			X
41897	4402076941	DBMW-22-20180330	440-207694-5		3/30/2018	Water	Stage 2A		X			X	X	X	X	X			X
41897	4402076941	DBMW-13-20180330	440-207694-6		3/30/2018	Water	Stage 2A		X			X	X	X	X	X			X

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LDC	SDG	Client ID	Lab ID	QC Type	Sample Date	Matrix	Validation Level	VOC (8260B SIM)	Metals (200.7)	Chromium (6010B)	CrVI (218.6)	Anions (300.0)	Chlorate (300.1B)	Perchlorate (314.0)	Alkalinity (2320)	TDS (2540C)	DOC (5310B)	Sulfide (9034)	pH (9040C)
41897	4402076941	DBMW-15-20180330	440-207694-7		3/30/2018	Water	Stage 2A		X			X	X	X	X	X			X
41897	4402076941	DBMW-16-20180330	440-207694-8		3/30/2018	Water	Stage 2A		X			X	X	X	X	X			X
41897	4402076941	DBMW-18-20180330-FD	440-207694-9	FD85	3/30/2018	Water	Stage 2A		X			X	X	X	X	X			X
41897	4402076941	DBMW-18-20180330	440-207694-10	FD85	3/30/2018	Water	Stage 2A		X			X	X	X	X	X			X
42261	4402078221	ES-13-20180402	440-207822-1		4/2/2018	Water	Stage 2A		X			X	X	X	X	X			X
42261	4402078221	ES-12-20180402	440-207822-2		4/2/2018	Water	Stage 2A		X			X	X	X	X	X			X
42261	4402078221	DBMW-4-20180402	440-207822-3		4/2/2018	Water	Stage 2A		X			X	X	X	X	X			X
42261	4402078221	DBMW-5-20180402	440-207822-4		4/2/2018	Water	Stage 2A		X			X	X	X	X	X			X
42261	4402078221	BEC-10-20180402	440-207822-5		4/2/2018	Water	Stage 2A		X			X	X	X	X	X			X
42261	4402078221	ES-11-20180402	440-207822-6		4/2/2018	Water	Stage 2A		X			X	X	X	X	X			X
42261	4402078221	ES-10-20180402	440-207822-7		4/2/2018	Water	Stage 2A		X			X	X	X	X	X			X
42261	4402078221	DBMW-1-20180402	440-207822-8		4/2/2018	Water	Stage 2A		X			X	X	X	X	X			X
42261	4402078221	DBMW-3-20180402	440-207822-9		4/2/2018	Water	Stage 2A		X			X	X	X	X	X			X
42261	4402079621	DBMW-8-20180403	440-207962-1		4/3/2018	Water	Stage 2A		X			X	X	X	X	X			X
42261	4402079621	DBMW-7-20180403	440-207962-2		4/3/2018	Water	Stage 2A		X			X	X	X	X	X			X
42261	4402079621	MCF-20A-20180403	440-207962-3		4/3/2018	Water	Stage 2A		X			X	X	X	X	X			X
42261	4402079621	MCF-05-20180403	440-207962-4		4/3/2018	Water	Stage 2A		X			X	X	X	X	X			X
42261	4402079621	DBMW-14-20180403	440-207962-5		4/3/2018	Water	Stage 2A		X			X	X	X	X	X			X
42261	4402079621	DBMW-17-20180403	440-207962-6		4/3/2018	Water	Stage 2A		X			X	X	X	X	X			X
42261	4402079621	MCF-07-20180403	440-207962-7		4/3/2018	Water	Stage 2A		X			X	X	X	X	X			X
42261	4402079621	AA-07-20180403	440-207962-8		4/3/2018	Water	Stage 2A		X			X	X	X	X	X			X
42261	4402079621	MCF-16A-20180403	440-207962-9	FD86	4/3/2018	Water	Stage 2A		X			X	X	X	X	X			X
42261	4402079621	MCF-16A-20180403-FD	440-207962-10	FD86	4/3/2018	Water	Stage 2A		X			X	X	X	X	X			X
42261	4402080711	ES-2-20180404	440-208071-1		4/4/2018	Water	Stage 2A		X			X	X	X	X	X			X
42261	4402080711	POU3-20180404	440-208071-2		4/4/2018	Water	Stage 2A		X			X	X	X	X	X			X
42261	4402080711	ES-4-20180404	440-208071-3		4/4/2018	Water	Stage 2A		X			X	X	X	X	X			X
42261	4402080711	ES-4-20180404-EB	440-208071-5	EB	4/4/2018	Water	Stage 2A		X			X	X	X	X	X			X
42261	4402080711	ES-4-20180404-FB	440-208071-6	FB	4/4/2018	Water	Stage 2A		X			X	X	X	X	X			X
42261	4402080711	POD8-20180404	440-208071-7		4/4/2018	Water	Stage 2A		X			X	X	X	X	X			X

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LDC	SDG	Client ID	Lab ID	QC Type	Sample Date	Matrix	Validation Level	VOC (8260B SIM)	Metals (200.7)	Chromium (6010B)	CrVI (218.6)	Anions (300.0)	Chlorate (300.1B)	Perchlorate (314.0)	Alkalinity (2320)	TDS (2540C)	DOC (5310B)	Sulfide (9034)	pH (9040C)
42261	4402080711	MCF-16B-20180404	440-208071-8		4/4/2018	Water	Stage 2A		X			X	X	X	X	X			X
42261	4402080711	MCF-16C-20180404	440-208071-9		4/4/2018	Water	Stage 2A		X			X	X	X	X	X			X
42261	4402080711	MCF-24A-20180404	440-208071-10		4/4/2018	Water	Stage 2A		X			X	X	X	X	X			X
42261	4402081861	ES-5-20180405	440-208186-1		4/5/2018	Water	Stage 2A		X			X	X	X	X	X			X
42261	4402081861	AA-09-20180405	440-208186-2		4/5/2018	Water	Stage 2A		X			X	X	X	X	X			X
42261	4402081861	MCF-09A-20180405	440-208186-3		4/5/2018	Water	Stage 2A		X			X	X	X	X	X			X
42261	4402081861	MCF-09B-20180405	440-208186-4		4/5/2018	Water	Stage 2A		X			X	X	X	X	X			X
42261	4402081861	MW-4-20180405	440-208186-5		4/5/2018	Water	Stage 2A		X			X	X	X	X	X			X
42261	4402081861	BEC-12-20180405	440-208186-6		4/5/2018	Water	Stage 2A		X			X	X	X	X	X			X
42261	4402081861	BEC-12-20180405-EB	440-208186-7	EB	4/5/2018	Water	Stage 2A		X			X	X	X	X	X			X
42261	4402081861	BEC-7-20180405	440-208186-8		4/5/2018	Water	Stage 2A		X			X	X	X	X	X			X
42261	4402081861	MCF-24B-20180405	440-208186-9		4/5/2018	Water	Stage 2A		X			X	X	X	X	X			X
42261	4402081861	BEC-9-20180405	440-208186-10		4/5/2018	Water	Stage 2A		X			X	X	X	X	X			X
42261	4402081861	BEC-5-20180405	440-208186-11	FD87	4/5/2018	Water	Stage 2A		X			X	X	X	X	X			X
42261	4402081861	BEC-5-20180405-FD	440-208186-12	FD87	4/5/2018	Water	Stage 2A		X			X	X	X	X	X			X
42261	4402083881	MCF-06A-R-20180409	440-208388-1		4/9/2018	Water	Stage 2A		X			X	X	X	X	X			X
42261	4402083881	MCF-06C-20180409	440-208388-2		4/9/2018	Water	Stage 2A		X			X	X	X	X	X			X
42261	4402083881	ES-8B-20180409	440-208388-3		4/9/2018	Water	Stage 2A		X			X	X	X	X	X			X
42261	4402083881	ES-28-20180409	440-208388-4		4/9/2018	Water	Stage 2A		X			X	X	X	X	X			X
42261	4402083881	ES-30-20180409	440-208388-5		4/9/2018	Water	Stage 2A		X			X	X	X	X	X			X
42261	4402083881	ES-31-20180409	440-208388-6	FD88	4/9/2018	Water	Stage 2A		X			X	X	X	X	X			X
42261	4402083881	ES-31-20180409-FD	440-208388-7	FD88	4/9/2018	Water	Stage 2A		X			X	X	X	X	X			X
42261	4402085451	DBMW-14-20180410	440-208545-1	FD89	4/10/2018	Water	Stage 2A		X			X	X	X	X	X			X
42261	4402085451	DBMW-14-20180410-FD	440-208545-2	FD89	4/10/2018	Water	Stage 2A		X			X	X	X	X	X			X
42261	4402085451	AA-26-20180410	440-208545-3		4/10/2018	Water	Stage 2A		X			X	X	X	X	X			X
42261	4402085451	MCF-07-20180410	440-208545-4		4/10/2018	Water	Stage 2A		X			X	X	X	X	X			X
42261	4402085451	AA-07-20180410	440-208545-5		4/10/2018	Water	Stage 2A		X			X	X		X	X			X
42261	4402085451	POD5-R-20180410-FB	440-208545-7	FB	4/10/2018	Water	Stage 2A		X			X	X	X	X	X			X
42261	4402085451	ES-19-20180410	440-208545-8		4/10/2018	Water	Stage 2A		X			X	X	X	X	X			X

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LDC	SDG	Client ID	Lab ID	QC Type	Sample Date	Matrix	Validation Level	VOC (8260B SIM)	Metals (200.7)	Chromium (6010B)	CrVI (218.6)	Anions (300.0)	Chlorate (300.1B)	Perchlorate (314.0)	Alkalinity (2320)	TDS (2540C)	DOC (5310B)	Sulfide (9034)	pH (9040C)
42261	4402085451	ES-20-20180410	440-208545-9		4/10/2018	Water	Stage 2A		X			X	X	X	X	X			X
42261	4402085451	ES-20-20180410-EB	440-208545-10	EB	4/10/2018	Water	Stage 2A		X			X	X	X	X	X			X
42261	4402085451	MW-04-20180410	440-208545-11		4/10/2018	Water	Stage 2A		X			X	X	X	X	X			X
42261	4402085451	MW-05-20180410	440-208545-12		4/10/2018	Water	Stage 2A		X			X	X	X	X	X			X
42261	4402086321	ES-27-20180411	440-208632-1		4/11/2018	Water	Stage 2A		X		X	X	X	X	X	X			X
42261	4402086321	ES-26-20180411	440-208632-2		4/11/2018	Water	Stage 2A		X		X	X	X	X	X	X			X
42261	4402086321	ES-25A-20180411	440-208632-3		4/11/2018	Water	Stage 2A		X		X	X	X	X	X	X			X
42261	4402086321	ES-25B-20180411	440-208632-4		4/11/2018	Water	Stage 2A		X		X	X	X	X	X	X			X
42261	4402086321	MW-10-20180411	440-208632-5		4/11/2018	Water	Stage 2A		X			X	X	X	X	X			X
42261	4402086321	MW-11-20180411	440-208632-6		4/11/2018	Water	Stage 2A		X			X	X	X	X	X			X
42261	4402086321	MW-1-20180411	440-208632-7	FD90	4/11/2018	Water	Stage 2A		X			X	X	X	X	X			X
42261	4402086321	MW-1-20180411-FD	440-208632-8	FD90	4/11/2018	Water	Stage 2A		X			X	X	X	X	X			X
42261	4402086321	MW-2-20180411	440-208632-9		4/11/2018	Water	Stage 2A		X			X	X	X	X	X			X
42261	4402086321	DBMW-22-20180411	440-208632-10		4/11/2018	Water	Stage 2A		X			X	X	X	X	X			X
42261	4402087831	DM-1-20180412	440-208783-1		4/12/2018	Water	Stage 2A		X			X	X	X	X	X			X
42261	4402087831	MCF-06C-20180412	440-208783-2		4/12/2018	Water	Stage 2A		X			X	X	X	X	X			X
42261	4402087831	ES-7-20180412	440-208783-3		4/12/2018	Water	Stage 2A		X			X	X	X	X	X			X
42261	4402087831	ES-32-20180412	440-208783-4		4/12/2018	Water	Stage 2A		X			X	X	X	X	X			X
42261	4402087831	MW-18-20180412	440-208783-5		4/12/2018	Water	Stage 2A		X			X	X	X	X	X			X
42261	4402087831	MCF-11-20180412	440-208783-6		4/12/2018	Water	Stage 2A		X			X	X	X	X	X			X
42261	4402087831	ES-6-20180412	440-208783-7	FD91	4/12/2018	Water	Stage 2A		X			X	X	X	X	X			X
42261	4402087831	POD7-R-20180412	440-208783-8		4/12/2018	Water	Stage 2A		X			X	X	X	X	X			X
42261	4402087831	HMW-18-20180412	440-208783-9		4/12/2018	Water	Stage 2A		X			X	X	X	X	X			X
42261	4402087831	ES-6-20180412-FD	440-208783-10	FD91	4/12/2018	Water	Stage 2A		X			X	X	X	X	X			X
42261	4402087831	HMW-18-20180412-EB	440-208783-11	EB	4/12/2018	Water	Stage 2A		X			X	X	X	X	X			X
42261	4402090111	ES-15-20180416	440-209011-1		4/16/2018	Water	Stage 2A		X			X	X	X	X	X			X
42261	4402091771	ES-9-20180417	440-209177-1		4/17/2018	Water	Stage 2A		X			X	X	X	X	X			X
42261	4402091771	ES-14B-20180417	440-209177-2		4/17/2018	Water	Stage 2A		X			X	X	X	X	X			X
42261	4402094841	ES-36-20180420	440-209484-1		4/20/2018	Water	Stage 2A		X			X	X	X	X	X			X

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LDC	SDG	Client ID	Lab ID	QC Type	Sample Date	Matrix	Validation Level	VOC (8260B SIM)	Metals (200.7)	Chromium (6010B)	CrVI (218.6)	Anions (300.0)	Chlorate (300.1B)	Perchlorate (314.0)	Alkalinity (2320)	TDS (2540C)	DOC (5310B)	Sulfide (9034)	pH (9040C)
42261	4402095651	MW-16-20180423	440-209565-1		4/23/2018	Water	Stage 2A		X		X	X	X	X	X	X			X
42261	4402095651	MW-17-20180423	440-209565-2		4/23/2018	Water	Stage 2A		X		X	X	X	X	X	X			X
42261	4402095651	MW-22-20180423	440-209565-3		4/23/2018	Water	Stage 2A		X		X	X	X	X	X	X			X
42261	4402097061	MW-23-20180424	440-209706-1		4/24/2018	Water	Stage 2A		X		X	X	X	X	X	X			X
42261	4402097061	MW-12-20180424	440-209706-2		4/24/2018	Water	Stage 2A		X		X	X	X	X	X	X			X
42261	4402097061	MW-25-20180424	440-209706-3		4/24/2018	Water	Stage 2A		X		X	X	X	X	X	X			X
42261	4402097061	MW-21R-20180424	440-209706-4		4/24/2018	Water	Stage 2A		X		X	X	X	X	X	X			X
42261	4402097061	MW-15-20180424	440-209706-5		4/24/2018	Water	Stage 2A		X		X	X	X	X	X	X			X
42261	4402097061	SD-1-20180424	440-209706-6		4/24/2018	Water	Stage 2A						X	X		X			
42261	4402098381	PC-172D-20180425	440-209838-1		4/25/2018	Water	Stage 2A	X	X		X	X	X	X	X	X	X	X	X
42261	4402098381	PC-168-20180425	440-209838-2		4/25/2018	Water	Stage 2A	X	X		X	X	X	X	X	X	X	X	X
42261	4402098381	PC-176-20180425	440-209838-3		4/25/2018	Water	Stage 2A	X	X		X	X	X	X	X	X	X	X	X
42261	4402098381	MW-20-20180425	440-209838-4		4/25/2018	Water	Stage 2A		X		X	X	X	X	X	X			X
42261	4402098381	MW-5-20180425	440-209838-5		4/25/2018	Water	Stage 2A				X								
42261	4402098381	MW-17-20180425	440-209838-6		4/25/2018	Water	Stage 2A				X								
42261	4402098381	DBMW-22-20180425	440-209838-7		4/25/2018	Water	Stage 2A				X								
42261	4402098381	MW-4-20180425	440-209838-8		4/25/2018	Water	Stage 2A				X								
42261	4402099511	MW-18-20180426	440-209951-1		4/26/2018	Water	Stage 2A				X								
42261	4402099511	MW-10-20180426	440-209951-2		4/26/2018	Water	Stage 2A				X								
42261	4402099511	MCF-06B-20180426	440-209951-3		4/26/2018	Water	Stage 2A		X			X	X	X	X	X			X
42261	4402099511	HMWWT6-20180426	440-209951-4		4/26/2018	Water	Stage 2A		X			X	X	X	X	X			X
42261	4402099511	MW-19-20180426	440-209951-5		4/26/2018	Water	Stage 2A		X		X	X	X	X	X	X			X
42964	4402121831	ES-18-20180524	440-212183-1		5/24/2018	Water	Stage 2A		X			X	X	X	X	X			X
42964	4402121831	ES-16-20180524	440-212183-2		5/24/2018	Water	Stage 2A		X			X	X	X	X	X			X
42964	4402121831	ES-14A-20180524	440-212183-3		5/24/2018	Water	Stage 2A		X			X	X	X	X	X			X
42964	4402121831	ES-17-20180524	440-212183-4		5/24/2018	Water	Stage 2A		X			X	X	X	X	X			X
42785	4402137501	NERT4.51S1-10.0-20180613	440-213750-1		6/13/2018	Soil	Stage 4			X			X	X					
42785	4402137501	NERT4.51S1-20.0-20180613	440-213750-2		6/13/2018	Soil	Stage 4			X			X	X					
42785	4402137501	NERT4.51S1-30.0-20180613	440-213750-3		6/13/2018	Soil	Stage 4			X			X	X					

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LDC	SDG	Client ID	Lab ID	QC Type	Sample Date	Matrix	Validation Level	VOC (8260B SIM)	Metals (200.7)	Chromium (6010B)	CrVI (218.6)	Anions (300.0)	Chlorate (300.1B)	Perchlorate (314.0)	Alkalinity (2320)	TDS (2540C)	DOC (5310B)	Sulfide (9034)	pH (9040C)
42785	4402137501	NERT4.51S1-40.0-20180613	440-213750-4	FD92	6/13/2018	Soil	Stage 4			X			X	X					
42785	4402137501	NERT4.51S1-40.0-20180613-FD	440-213750-5	FD92	6/13/2018	Soil	Stage 4			X			X	X					
42785	4402137501	NERT4.51S1-50.0-20180613	440-213750-6		6/13/2018	Soil	Stage 4			X			X	X					
42785	4402138851	NERT4.93S1-10.0-20180614	440-213885-1		6/14/2018	Soil	Stage 2B			X			X	X					
42785	4402138851	NERT4.93S1-20.0-20180614	440-213885-2		6/14/2018	Soil	Stage 2B			X			X	X					
42785	4402138851	NERT4.93S1-35.0-20180615	440-213885-3		6/15/2018	Soil	Stage 2B			X			X	X					
42785	4402138851	NERT4.93S1-40.0-20180615	440-213885-4		6/15/2018	Soil	Stage 2B			X			X	X					
42785	4402138851	NERT4.93S1-50.0-20180615	440-213885-5		6/15/2018	Soil	Stage 2B			X			X	X					
42785	4402138851	NERT4.93S1-60.0-20180615	440-213885-6		6/15/2018	Soil	Stage 2B			X			X	X					
42785	4402138851	NERT4.93S1-65.0-20180615	440-213885-7		6/15/2018	Soil	Stage 2B			X			X	X					
42785	4402138851	NERT5.11S1-10.0-20180615	440-213885-8		6/15/2018	Soil	Stage 2B			X			X	X					
42785	4402138851	NERT5.11S1-20.0-20180615	440-213885-9		6/15/2018	Soil	Stage 2B			X			X	X					
42785	4402138851	NERT5.11S1-30.0-20180615	440-213885-10		6/15/2018	Soil	Stage 2B			X			X	X					
42785	4402138851	NERT5.11S1-40.0-20180615	440-213885-11		6/15/2018	Soil	Stage 2B			X			X	X					
42785	4402138851	NERT5.11S1-50.0-20180615	440-213885-12		6/15/2018	Soil	Stage 2B			X			X	X					
42785	4402138851	NERT5.11S1-60.0-20180616	440-213885-13		6/16/2018	Soil	Stage 2B			X			X	X					
42785	4402138851	NERT5.11S1-70.0-20180616	440-213885-14	FD93	6/16/2018	Soil	Stage 2B			X			X	X					
42785	4402138851	NERT5.11S1-70.0-20180616-FD	440-213885-15	FD93	6/16/2018	Soil	Stage 2B			X			X	X					
42785	4402138851	NERT5.11S1-80.0-20180616	440-213885-16		6/16/2018	Soil	Stage 2B			X			X	X					
42785	4402138851	NERT5.11S1-90.0-20180616	440-213885-17		6/16/2018	Soil	Stage 2B			X			X	X					
42785	4402138851	NERT5.91S1-10.0-20180617	440-213885-18		6/17/2018	Soil	Stage 2B			X			X	X					
42785	4402138851	NERT5.91S1-20.0-20180617	440-213885-19		6/17/2018	Soil	Stage 2B			X			X	X					
42785	4402138851	NERT5.91S1-30.0-20180617	440-213885-20		6/17/2018	Soil	Stage 2B			X			X	X					
42785	4402138851	NERT5.91S1-40.0-20180617	440-213885-21		6/17/2018	Soil	Stage 2B			X			X	X					
42785	4402138851	NERT5.91S1-50.0-20180617	440-213885-22		6/17/2018	Soil	Stage 2B			X			X	X					
42785	4402138851	NERT5.91S1-60.0-20180617	440-213885-23		6/17/2018	Soil	Stage 2B			X			X	X					
42785	4402138851	NERT5.91S1-70.0-20180617	440-213885-24	FD94	6/17/2018	Soil	Stage 2B			X			X	X					
42785	4402138851	NERT5.91S1-70.0-20180617-FD	440-213885-25	FD94	6/17/2018	Soil	Stage 2B			X			X	X					
42785	4402138851	NERT5.91S1-80.0-20180617	440-213885-26		6/17/2018	Soil	Stage 2B			X			X	X					

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LDC	SDG	Client ID	Lab ID	QC Type	Sample Date	Matrix	Validation Level	VOC (8260B SIM)	Metals (200.7)	Chromium (6010B)	CrVI (218.6)	Anions (300.0)	Chlorate (300.1B)	Perchlorate (314.0)	Alkalinity (2320)	TDS (2540C)	DOC (5310B)	Sulfide (9034)	pH (9040C)
42785	4402138851	NERT5.91S1-90.0-20180617	440-213885-27		6/17/2018	Soil	Stage 2B			X			X	X					
42785	4402138891	NERT5.49S1-10.0-20180618	440-213889-1		6/18/2018	Soil	Stage 2B			X			X	X					
42785	4402138891	NERT5.49S1-20.0-20180618	440-213889-2		6/18/2018	Soil	Stage 2B			X			X	X					
42785	4402138891	NERT5.49S1-30.0-20180618	440-213889-3		6/18/2018	Soil	Stage 2B			X			X	X					
42785	4402138891	NERT5.49S1-40.0-20180618	440-213889-4		6/18/2018	Soil	Stage 2B			X			X	X					
42785	4402138891	NERT5.49S1-50.0-20180618	440-213889-5		6/18/2018	Soil	Stage 2B			X			X	X					
42785	4402138891	NERT5.49S1-60.0-20180618	440-213889-6	FD95	6/18/2018	Soil	Stage 2B			X			X	X					
42785	4402138891	NERT5.49S1-60.0-20180618-FD	440-213889-7	FD95	6/18/2018	Soil	Stage 2B			X			X	X					
42785	4402138891	NERT5.49S1-70.0-20180618	440-213889-8		6/18/2018	Soil	Stage 2B			X			X	X					
42785	4402138891	NERT5.49S1-80.0-20180618	440-213889-9		6/18/2018	Soil	Stage 2B			X			X	X					
42785	4402138891	NERT5.49S1-90.0-20180618	440-213889-10		6/18/2018	Soil	Stage 2B			X			X	X					
42785	4402141041	NERT4.21N1-10.0-20180619	440-214104-1		6/19/2018	Soil	Stage 2B			X			X	X					
42785	4402141041	NERT4.21N1-20.0-20180619	440-214104-2		6/19/2018	Soil	Stage 2B			X			X	X					
42785	4402141041	NERT4.21N1-30.0-20180619	440-214104-3		6/19/2018	Soil	Stage 2B			X			X	X					
42785	4402141041	NERT4.21N1-40.0-20180619	440-214104-4		6/19/2018	Soil	Stage 2B			X			X	X					
42785	4402141041	NERT4.21N1-50.0-20180619	440-214104-5		6/19/2018	Soil	Stage 2B			X			X	X					
42785	4402141041	NERT4.21N1-60.0-20180619	440-214104-6		6/19/2018	Soil	Stage 2B			X			X	X					
42785	4402141041	NERT4.21N1-70.0-20180619	440-214104-7	FD96	6/19/2018	Soil	Stage 2B			X			X	X					
42785	4402141041	NERT4.21N1-70.0-20180619-FD	440-214104-8	FD96	6/19/2018	Soil	Stage 2B			X			X	X					
42785	4402141041	NERT4.21N1-80.0-20180619	440-214104-9		6/19/2018	Soil	Stage 2B			X			X	X					
42785	4402141041	NERT4.21N1-90.0-20180619	440-214104-10		6/19/2018	Soil	Stage 2B			X			X	X					
42785	4402141041	NERT4.38N1-10.0-20180620	440-214104-11		6/20/2018	Soil	Stage 2B			X			X	X					
42785	4402141041	NERT4.38N1-20.0-20180620	440-214104-12		6/20/2018	Soil	Stage 2B			X			X	X					
42785	4402141041	NERT4.38N1-30.0-20180620	440-214104-13		6/20/2018	Soil	Stage 2B			X			X	X					
42785	4402141041	NERT4.38N1-40.0-20180620	440-214104-14		6/20/2018	Soil	Stage 2B			X			X	X					
42785	4402142221	NERT4.38N1-50.0-20180621	440-214222-1		6/21/2018	Soil	Stage 4			X			X	X					
42785	4402142221	NERT4.38N1-60.0-20180621	440-214222-2		6/21/2018	Soil	Stage 4			X			X	X					
42785	4402145101	NERT4.71S1-10.0-20180626	440-214510-1		6/26/2018	Soil	Stage 4			X			X	X					
42785	4402145101	NERT4.71S1-20.0-20180626	440-214510-2		6/26/2018	Soil	Stage 4			X			X	X					

Table I. Sample Cross-Reference

LDC	SDG	Client ID	Lab ID	QC Type	Sample Date	Matrix	Validation Level	VOC (8260B SIM)	Metals (200.7)	Chromium (6010B)	CrVI (218.6)	Anions (300.0)	Chlorate (300.1B)	Perchlorate (314.0)	Alkalinity (2320)	TDS (2540C)	DOC (5310B)	Sulfide (9034)	pH (9040C)
42785	4402145101	NERT4.71S1-30.0-20180626	440-214510-3		6/26/2018	Soil	Stage 4			X			X	X					
42785	4402145101	NERT4.71S1-40.0-20180626	440-214510-4	FD97	6/26/2018	Soil	Stage 4			X			X	X					
42785	4402145101	NERT4.71S1-40.0-20180626-FD	440-214510-5	FD97	6/26/2018	Soil	Stage 4			X			X	X					
42785	4402145101	NERT4.71S1-50.0-20180626	440-214510-6		6/26/2018	Soil	Stage 4			X			X	X					
42785	4402145101	NERT4.71S1-60.0-20180626	440-214510-7		6/26/2018	Soil	Stage 4			X			X	X					
42785	4402145101	NERT4.71S1-70.0-20180626	440-214510-8		6/26/2018	Soil	Stage 4			X			X	X					
42785	4402146141	NERT4.71S1-80.0-20180627	440-214614-1		6/27/2018	Soil	Stage 2B			X			X	X					
42785	4402146141	NERT4.71S1-90.0-20180627	440-214614-2		6/27/2018	Soil	Stage 2B			X			X	X					
42785	4402146141	NERT3.80S1-10.0-20180627	440-214614-3		6/27/2018	Soil	Stage 2B			X			X	X					
42785	4402146141	NERT3.80S1-20.0-20180627	440-214614-4		6/27/2018	Soil	Stage 2B			X			X	X					
42785	4402146141	NERT3.80S1-30.0-20180627	440-214614-5	FD98	6/27/2018	Soil	Stage 2B			X			X	X					
42785	4402146141	NERT3.80S1-30.0-20180627-FD	440-214614-6	FD98	6/27/2018	Soil	Stage 2B			X			X	X					
42785	4402146141	NERT3.80S1-40.0-20180627	440-214614-7		6/27/2018	Soil	Stage 2B			X			X	X					
42785	4402147051	NERT3.80S1-50.0-20180628	440-214705-1		6/28/2018	Soil	Stage 4			X			X	X					
43170	4402170661	ES-24-10.0-20180730	440-217066-1		7/30/2018	Soil	Stage 2B			X			X	X					
43170	4402170661	ES-24-20.0-20180730	440-217066-2		7/30/2018	Soil	Stage 2B			X			X	X					
43170	4402170661	ES-24-30.0-20180730	440-217066-3	FD99	7/30/2018	Soil	Stage 2B			X			X	X					
43170	4402170661	ES-24-30.0-20180730-FD	440-217066-4	FD99	7/30/2018	Soil	Stage 2B			X			X	X					
43170	4402170661	ES-24-40.0-20180730	440-217066-5		7/30/2018	Soil	Stage 2B			X			X	X					
43170	4402170661	ES-24-50.0-20180731	440-217066-6		7/31/2018	Soil	Stage 2B			X			X	X					
43170	4402170661	ES-24-60.0-20180731	440-217066-7	FD100	7/31/2018	Soil	Stage 2B			X			X	X					
43170	4402170661	ES-24-60.0-20180731-FD	440-217066-8	FD100	7/31/2018	Soil	Stage 2B			X			X	X					
43170	4402170661	ES-24-70.0-20180731	440-217066-9		7/31/2018	Soil	Stage 2B			X			X	X					
43170	4402170661	ES-24-80.0-20180731	440-217066-10		7/31/2018	Soil	Stage 2B			X			X	X					
43170	4402170661	ES-24-90.0-20180731	440-217066-11		7/31/2018	Soil	Stage 2B			X			X	X					
43170	4402170661	ES-24-100.0-20180731	440-217066-12		7/31/2018	Soil	Stage 2B			X			X	X					
43170	4402170661	ES-24-110.0-20180731	440-217066-13		7/31/2018	Soil	Stage 2B			X			X	X					
43170	4402170661	ES-24-120.0-20180731	440-217066-14		7/31/2018	Soil	Stage 2B			X			X	X					
43146	4402172611	ES-22-10.0-20180801	440-217261-1		8/1/2018	Soil	Stage 4			X			X	X					

Table I. Sample Cross-Reference

LDC	SDG	Client ID	Lab ID	QC Type	Sample Date	Matrix	Validation Level	VOC (8260B SIM)	Metals (200.7)	Chromium (6010B)	CrVI (218.6)	Anions (300.0)	Chlorate (300.1B)	Perchlorate (314.0)	Alkalinity (2320)	TDS (2540C)	DOC (5310B)	Sulfide (9034)	pH (9040C)
43146	4402172611	ES-22-20.0-20180801	440-217261-2	FD101	8/1/2018	Soil	Stage 4			X			X	X					
43146	4402172611	ES-22-20.0-20180801-FD	440-217261-3	FD101	8/1/2018	Soil	Stage 4			X			X	X					
43146	4402172611	ES-22-30.0-20180801	440-217261-4		8/1/2018	Soil	Stage 4			X			X	X					
43146	4402172611	ES-22-40.0-20180801	440-217261-5	FD102	8/1/2018	Soil	Stage 4			X			X	X					
43146	4402172611	ES-22-40.0-20180801-FD	440-217261-6	FD102	8/1/2018	Soil	Stage 4			X			X	X					
43146	4402172611	ES-22-50.0-20180801	440-217261-7		8/1/2018	Soil	Stage 4			X			X	X					
43146	4402172611	ES-22-60.0-20180801	440-217261-8		8/1/2018	Soil	Stage 4			X			X	X					
43146	4402172611	ES-22-70.0-20180801	440-217261-9		8/1/2018	Soil	Stage 4			X			X	X					
43146	4402172611	ES-22-80.0-20180801	440-217261-10		8/1/2018	Soil	Stage 4			X			X	X					
43146	4402172611	ES-22-90.0-20180802	440-217261-11		8/2/2018	Soil	Stage 4			X			X	X					
43146	4402172611	ES-22-100.0-20180802	440-217261-12		8/2/2018	Soil	Stage 4			X			X	X					
43146	4402172611	ES-22-110.0-20180802	440-217261-13		8/2/2018	Soil	Stage 4			X			X	X					
43146	4402172611	ES-22-120.0-20180802	440-217261-14		8/2/2018	Soil	Stage 4			X			X	X					
43146	4402176671	ES-21-10.0-20180806	440-217667-1		8/6/2018	Soil	Stage 2B			X			X	X					
43146	4402176671	ES-21-20.0-20180806	440-217667-2		8/6/2018	Soil	Stage 2B			X			X	X					
43146	4402176671	ES-21-30.0-20180806	440-217667-3	FD103	8/6/2018	Soil	Stage 2B			X			X	X					
43146	4402176671	ES-21-30.0-20180806-FD	440-217667-4	FD103	8/6/2018	Soil	Stage 2B			X			X	X					
43146	4402176671	ES-21-40.0-20180806	440-217667-5		8/6/2018	Soil	Stage 2B			X			X	X					
43146	4402176671	ES-21-50.0-20180806	440-217667-6		8/6/2018	Soil	Stage 2B			X			X	X					
43146	4402176671	ES-21-60.0-20180806	440-217667-7		8/6/2018	Soil	Stage 2B			X			X	X					
43146	4402176671	ES-21-70.0-20180806	440-217667-8		8/6/2018	Soil	Stage 2B			X			X	X					
43146	4402176671	ES-21-80.0-20180806	440-217667-9		8/6/2018	Soil	Stage 2B			X			X	X					
43146	4402176671	ES-21-90.0-20180806	440-217667-10		8/6/2018	Soil	Stage 2B			X			X	X					
43146	4402176671	ES-21-100.0-20180806	440-217667-11		8/6/2018	Soil	Stage 2B			X			X	X					
43146	4402176671	ES-21-110.0-20180806	440-217667-12		8/6/2018	Soil	Stage 2B			X			X	X					
43146	4402176671	ES-21-120.0-20180806	440-217667-13		8/6/2018	Soil	Stage 2B			X			X	X					
43146	4402181261	ES-23-10.0-20180813	440-218126-1		8/13/2018	Soil	Stage 2B			X			X	X					
43146	4402181261	ES-23-20.0-20180813	440-218126-2		8/13/2018	Soil	Stage 2B			X			X	X					
43146	4402181261	ES-23-30.0-20180813	440-218126-3		8/13/2018	Soil	Stage 2B			X			X	X					

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LDC	SDG	Client ID	Lab ID	QC Type	Sample Date	Matrix	Validation Level	VOC (8260B SIM)	Metals (200.7)	Chromium (6010B)	CrVI (218.6)	Anions (300.0)	Chlorate (300.1B)	Perchlorate (314.0)	Alkalinity (2320)	TDS (2540C)	DOC (5310B)	Sulfide (9034)	pH (9040C)
43146	4402181261	ES-23-40.0-20180813	440-218126-4	FD104	8/13/2018	Soil	Stage 2B			X			X	X					
43146	4402181261	ES-23-40.0-20180813-FD	440-218126-5	FD104	8/13/2018	Soil	Stage 2B			X			X	X					
43146	4402181261	ES-23-50.0-20180813	440-218126-6		8/13/2018	Soil	Stage 2B			X			X	X					
43146	4402181261	ES-23-60.0-20180813	440-218126-7		8/13/2018	Soil	Stage 2B			X			X	X					
43146	4402181261	ES-23-70.0-20180813	440-218126-8		8/13/2018	Soil	Stage 2B			X			X	X					
43146	4402181261	ES-23-80.0-20180813	440-218126-9		8/13/2018	Soil	Stage 2B			X			X	X					
43146	4402181261	ES-23-90.0-20180814	440-218126-10		8/14/2018	Soil	Stage 2B			X			X	X					
43146	4402181261	ES-23-100.0-20180814	440-218126-11		8/14/2018	Soil	Stage 2B			X			X	X					
43146	4402181261	ES-23-110.0-20180814	440-218126-12		8/14/2018	Soil	Stage 2B			X			X	X					
43146	4402181261	ES-23-120.0-20180814	440-218126-13		8/14/2018	Soil	Stage 2B			X			X	X					
43146	4402181261	ES-23-130.0-20180814	440-218126-14		8/14/2018	Soil	Stage 2B			X			X	X					
43146	4402181261	ES-23-140.0-20180814	440-218126-15		8/14/2018	Soil	Stage 2B			X			X	X					
43146	4402181261	ES-23-150.0-20180814	440-218126-16		8/14/2018	Soil	Stage 2B			X			X	X					
43146	4402181261	ES-23-160.0-20180814	440-218126-17		8/14/2018	Soil	Stage 2B			X			X	X					
43146	4402181261	ES-23-170.0-20180814	440-218126-18		8/14/2018	Soil	Stage 2B			X			X	X					
43146	4402181261	ES-23-180.0-20180814	440-218126-19		8/14/2018	Soil	Stage 2B			X			X	X					
43146	4402182141	ES-23-190.0-20180815	440-218214-1		8/15/2018	Soil	Stage 2B			X			X	X					
43146	4402182141	ES-23-200.0-20180815	440-218214-2		8/15/2018	Soil	Stage 2B			X			X	X					
43473	4402198061	ES-23B-20180910	440-219806-1		9/10/2018	Water	Stage 2A		X			X	X	X	X	X			
43473	4402198061	ES-23A-20180910	440-219806-2		9/10/2018	Water	Stage 2A		X			X	X	X	X	X			
43473	4402198061	ES-21A-20180910	440-219806-3		9/10/2018	Water	Stage 2A		X			X	X	X	X	X			
43473	4402198531	ES-21B-20180911	440-219853-1		9/11/2018	Water	Stage 2A		X		X	X	X	X	X	X			
43473	4402198531	ES-21A-20180911	440-219853-2		9/11/2018	Water	Stage 2A		X		X								
43473	4402198531	ES-23B-20180911	440-219853-3		9/11/2018	Water	Stage 2A		X		X								
43473	4402199561	ES-23A-20180912	440-219956-1		9/12/2018	Water	Stage 2A		X		X								
43473	4402199561	ES-24-20180912	440-219956-2	FD105	9/12/2018	Water	Stage 2A		X		X	X	X	X	X	X			
43473	4402199561	ES-24-20180912-FD	440-219956-3	FD105	9/12/2018	Water	Stage 2A		X		X	X	X	X	X	X			
43473	4402199611	ES-22A-20180912	440-219961-1		9/12/2018	Water	Stage 2A		X		X	X	X	X	X	X			
43473	4402199611	ES-22B-20180912	440-219961-2		9/12/2018	Water	Stage 2A		X		X	X	X	X	X	X			

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LDC	SDG	Client ID	Lab ID	QC Type	Sample Date	Matrix	Validation Level	VOC (8260B SIM)	Metals (200.7)	Chromium (6010B)	CrVI (218.6)	Anions (300.0)	Chlorate (300.1B)	Perchlorate (314.0)	Alkalinity (2320)	TDS (2540C)	DOC (5310B)	Sulfide (9034)	pH (9040C)
43473	4402199611	ES-22B-20180912-EB	440-219961-3	EB	9/12/2018	Water	Stage 2A		X				X	X					
44469	4402241881	ES-21A-20181112	440-224188-1		11/12/2018	Water	Stage 2A		X		X	X	X	X	X	X			X
44469	4402241881	ES-21B-20181112	440-224188-2		11/12/2018	Water	Stage 2A		X		X	X	X	X	X	X			X
44469	4402243101	ES-24-20181113	440-224310-1		11/13/2018	Water	Stage 2A		X		X	X	X	X	X	X			X
44469	4402243101	ES-23B-20181113	440-224310-2		11/13/2018	Water	Stage 2A		X		X	X	X	X	X	X			X
44469	4402243101	ES-23A-20181113	440-224310-3		11/13/2018	Water	Stage 2A		X		X	X	X	X	X	X			X
44469	4402243101	ES-22A-20181113	440-224310-4		11/13/2018	Water	Stage 2A		X		X	X	X	X	X	X			X
44469	4402243101	ES-22B-20181113	440-224310-5	FD106	11/13/2018	Water	Stage 2A		X		X	X	X	X	X	X			X
44469	4402243101	ES-22A-20181113-FD	440-224310-6	FD106	11/13/2018	Water	Stage 2A		X		X	X	X	X	X	X			X

Table II. Stage 2A, Stage 2B, and Stage 4 Validation Elements

Quality Control Elements	Stage 2A		
	GC/MS[1]	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/ Carrier Recovery	√	**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	√	√	√
RPD Between Two Columns	**N/A**	**N/A**	**N/A**
Project Quantitation Limits (PQL)[2]	√	√	√
Multiple Results for One Sample	√	√	√
Target Compound Identification	-	-	-
Compound Quantitation/ Sample Result Verification	-	-	-
System Performance[3]	-	-	-
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]GC/MS = 1,2,3-Trichloropropane and 1,4-Dioxane
[2]PQLs verified for GC/MS, Metals, and Wet Chemistry methods.
[3]System performance is a thorough review of the data acquisition that can yield indicators of degrading instrument performance affecting quality of data.

Table II. Stage 2A, Stage 2B, and Stage 4 Validation Elements

Quality Control Elements	Stage 2B		
	GC/MS[1]	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/ Carrier Recovery	√	**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	√	√	√
RPD Between Two Columns	**N/A**	**N/A**	**N/A**
Project Quantitation Limits (PQL)[2]	√	√	√
Multiple Results for One Sample	√	√	√
Target Compound Identification	-	-	-
Compound Quantitation/ Sample Result Verification	-	-	-
System Performance[3]	-	-	-
Overall Data Usability Assessment	√	√	√

√ = Reviewed for Stage 2B review
N/A = Not applicable to method or not performed during this sampling event
- = Not applicable for Stage 2B review
[1]GC/MS = 1,2,3-Trichloropropane and 1,4-Dioxane
[2]PQLs verified for GC/MS, Metals, and Wet Chemistry methods.
[3]System performance is a thorough review of the data acquisition that can yield indicators of degrading instrument performance affecting quality of data.

Table II. Stage 2A, Stage 2B, and Stage 4 Validation Elements

Quality Control Elements	Stage 4		
	GC/MS[1]	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/ Carrier Recovery	√	**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	√	√	√
RPD Between Two Columns	**N/A**	**N/A**	**N/A**
Project Quantitation Limits (PQL)[2]	√	√	√
Multiple Results for One Sample	√	√	√
Target Compound Identification	√	**N/A**	**N/A**
Compound Quantitation/ Sample Result Verification	√	√	√
System Performance[3]	√	**N/A**	**N/A**
Overall Data Usability Assessment	√	√	√

√ = Reviewed for Stage 4 review
N/A = Not applicable to method or not performed during this sampling event
- = Not applicable for Stage 4 review
[1]GC/MS = 1,2,3-Trichloropropane and 1,4-Dioxane
[2]PQLs verified for GC/MS, Metals, and Wet Chemistry methods.
[3]System performance is a thorough review of the data acquisition that can yield indicators of degrading instrument performance affecting quality of data.

Table III. Stage 2A, Stage 2B & Stage 4 Validation Percentages

Parameter	Number of Samples				Validation Percentage		
	(Water) Stage 2A	(Soil) Stage 2B	(Soil) Stage 4	(Soil) Total	(Water [1]) Stage 2A (%)	(Soil) Stage 2B (%)	(Soil) Stage 4 (%)
1,2,3-Trichloropropane & 1,4-Dioxane (8260B-SIM)	3	-	-	-	100	-	-
Metals (200.7/200.8)	262	-	-	-	100	-	-
Chromium (6010B)	-	202	43	245	-	82	18
Alkalinity	258	-	-	-	100	-	-
Anions	258	-	-	-	100	-	-
Chlorate	260	729	86	815	100	89	11
DOC	3	-	-	-	100	-	-
Hexavalent chromium	39	-	-	-	100	-	-
Perchlorate	259	729	86	815	100	89	11
pH	144	-	-	-	100	-	-
TDS	259	-	-	-	100	-	-
Sulfide	3	-	-	-	100	-	-

Notes:

1. Consistent with NDEP guidance emailed on March 7, 2017, all water results have been validated to Stage 2A.

Table IV. Reason Codes and Definitions

Reason Code	Explanation
a	qualified due to low abundance (radiochemical activity)
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 Result	Lab Qualifier	SQL	PQL	Units	Validator Qualifier	Reason Code	Data Quality Indicator	Qualification Finding	Acceptance Criteria	
4402098381	PC-172D-20180425	4/25/2018	SW8260BSIM	123-91-1	1,4-Dioxane	0.61	J	0.50	2.0	ug/l	J	sp	< PQL			
4402098381	PC-176-20180425	4/25/2018	SW8260BSIM	123-91-1	1,4-Dioxane	0.67	J	0.50	2.0	ug/l	J	sp	< PQL			
4402018741	ES-13-80.0-20180123	1/23/2018	SW6010	7440-47-3	Chromium (total)	37		0.76	1.5	mg/kg	J	fd	FD RPD	51	50	%
4402018741	ES-13-80.0-20180123-FD	1/23/2018	SW6010	7440-47-3	Chromium (total)	22		0.73	1.5	mg/kg	J	fd	FD RPD	51	50	%
4402027171	ESB-15-20.0-20180204	2/4/2018	SW6010	7440-47-3	Chromium (total)	7.9		0.69	1.4	mg/kg	J	fd	FD RPD	63	50	%
4402027171	ESB-15-20.0-20180204-FD	2/4/2018	SW6010	7440-47-3	Chromium (total)	4.1		1.4	2.8	mg/kg	J	fd	FD RPD	63	50	%
4402010391	POD8-20180112-FB	1/12/2018	E200.7	7440-09-7	Potassium	0.27	J	0.25	0.50	mg/l	J	sp	< PQL			
4402012121	BEC-7-20180116-EB	1/16/2018	E200.7	7440-70-2	Calcium	0.083	J	0.050	0.10	mg/l	J	sp	< PQL			
4402012121	MCF-24A-20180116-FB	1/16/2018	E200.7	7439-95-4	Magnesium	0.012	J	0.010	0.020	mg/l	J	sp	< PQL			
4402013491	BEC-5-20180117	1/17/2018	E200.7	7440-09-7	Potassium	26	J	25	50	mg/l	J+	m,sp	MS/MSD %R; < PQL	-,140	70-130	%
4402013491	BEC-5-20180117-EB	1/17/2018	E200.7	7440-70-2	Calcium	0.089	J	0.050	0.10	mg/l	J	sp	< PQL			
4402013491	MCF-03B-20180117	1/17/2018	E200.7	7440-09-7	Potassium	13	^	0.25	0.50	mg/l	J+	m	MS/MSD %R	-,140	70-130	%
4402013491	MCF-03B-20180117-FD	1/17/2018	E200.7	7440-09-7	Potassium	13	F1^	0.25	0.50	mg/l	J+	m	MS/MSD %R	-,140	70-130	%
4402013491	MCF-24B-20180117	1/17/2018	E200.7	7440-09-7	Potassium	16000		25	50	mg/l	J+	m	MS/MSD %R	-,140	70-130	%
4402013491	MCF-32A-20180117	1/17/2018	E200.7	7440-09-7	Potassium	190	^	0.25	0.50	mg/l	J+	m	MS/MSD %R	-,140	70-130	%
4402014771	MCF-16B-20180118-FB	1/18/2018	E200.7	7440-70-2	Calcium	0.082	J	0.050	0.10	mg/l	J	sp	< PQL			
4402017581	DBMW-15-20180123-EB	1/23/2018	E200.7	7440-23-5	Sodium	0.29	J	0.26	0.50	mg/l	J	sp	< PQL			
4402017581	DBMW-7-20180123-EB	1/23/2018	E200.7	7440-23-5	Sodium	0.37	J	0.26	0.50	mg/l	J	sp	< PQL			
4402017581	DBMW-7-20180123-EB	1/23/2018	E200.7	7439-95-4	Magnesium	0.015	J	0.010	0.020	mg/l	J	sp	< PQL			
4402078221	ES-10-20180402	4/2/2018	E200.7	7440-47-3	Chromium (total)	0.018	J	0.013	0.025	mg/l	J	sp	< PQL			
4402078221	ES-13-20180402	4/2/2018	E200.7	7440-47-3	Chromium (total)	0.048	J	0.025	0.050	mg/l	J	sp	< PQL			
4402080711	MCF-24A-20180404	4/4/2018	E200.7	7440-47-3	Chromium (total)	0.0025	J	0.0025	0.0050	mg/l	J	sp	< PQL			
4402085451	ES-20-20180410	4/10/2018	E200.7	7440-47-3	Chromium (total)	0.0028	J	0.0025	0.0050	mg/l	J	sp	< PQL			
4402086321	DBMW-22-20180411	4/11/2018	E200.7	7440-47-3	Chromium (total)	0.0045	J	0.0025	0.0050	mg/l	J	sp	< PQL			
4402086321	ES-25A-20180411	4/11/2018	E200.7	7440-47-3	Chromium (total)	0.0066	J	0.0050	0.010	mg/l	J	sp	< PQL			
4402087831	HMW-18-20180412-EB	4/12/2018	E200.7	7439-95-4	Magnesium	0.012	J	0.010	0.020	mg/l	J	sp	< PQL			
4402098381	PC-176-20180425	4/25/2018	E200.7	7440-47-3	Chromium (total)	0.0044	J	0.0025	0.0050	mg/l	J	sp	< PQL			
4402086321	ES-27-20180411	4/11/2018	E218.6	18540-29-9	Chromium VI	12	H	0.25	1.0	ug/l	J-	h	Holding time	25.7	24	hours
4402097061	MW-15-20180424	4/24/2018	E218.6	18540-29-9	Chromium VI	0.28	J	0.25	1.0	ug/l	J	sp	< PQL			
4402098381	MW-20-20180425	4/25/2018	E218.6	18540-29-9	Chromium VI	0.36	J	0.25	1.0	ug/l	J	sp	< PQL			
4402010391	POD8-20180112	1/12/2018	E300	14797-55-8_NO3	Nitrate as NO3	74	H	2.5	5.0	mg/l	J-	h	Holding time	109.25	48	hours
4402010391	POD8-20180112-FB	1/12/2018	E300	14797-55-8_NO3	Nitrate as NO3		UH	0.25	0.50	mg/l	R	h	Holding time	108.58	48	hours
4402010441	ES-2-20180112	1/12/2018	E300	14797-55-8_NO3	Nitrate as NO3	47	H	2.5	5.0	mg/l	J-	h	Holding time	113.22	48	hours
4402012121	MCF-01A-20180116-FD	1/16/2018	E300	14797-55-8_NO3	Nitrate as NO3	0.58	J	0.50	1.0	mg/l	J	sp	< PQL			
4402012161	ES-29-20180115	1/15/2018	E300	14797-55-8_NO3	Nitrate as NO3	54	H	2.5	5.0	mg/l	J-	h	Holding time	51.38	48	hours
4402015551	DBMW-1-20180119-FD	1/19/2018	E300	14797-55-8_NO3	Nitrate as NO3	39		2.5	5.0	mg/l	J+	m	MS/MSD %R	139,137	80-120	%
4402015571	ES-31-20180119	1/19/2018	E300	14797-55-8_NO3	Nitrate as NO3	84		2.5	5.0	mg/l	J+	m	MS/MSD %R	139,137	80-120	%
4402015571	ES-5-20180118	1/18/2018	E300	14797-55-8_NO3	Nitrate as NO3	37	F1	1.3	2.5	mg/l	J+	m	MS/MSD %R	139,137	80-120	%
4402016731	MCF-06B-20180122	1/22/2018	E300	14797-55-8_NO3	Nitrate as NO3	15	J	13	25	mg/l	J	sp	< PQL			
4402016731	MCF-06B-20180122-FD	1/22/2018	E300	14797-55-8_NO3	Nitrate as NO3	17	J	13	25	mg/l	J	sp	< PQL			
4402027131	ES-20-20180204	2/4/2018	E300	14797-55-8_NO3	Nitrate as NO3	11	H	0.25	0.50	mg/l	J-	h	Holding time	58.77	48	hours
4402037731	ES-29-20180217	2/17/2018	E300	14797-55-8_NO3	Nitrate as NO3	54	H	5.0	10	mg/l	J-	h	Holding time	84.82	48	hours
4402037731	ES-29-20180217-FD	2/17/2018	E300	14797-55-8_NO3	Nitrate as NO3	56	H	5.0	10	mg/l	J-	h	Holding time	85.87	48	hours
4402037731	ES-8A-20180218	2/18/2018	E300	14797-55-8_NO3	Nitrate as NO3	110	H	5.0	10	mg/l	J-	h	Holding time	60.73	48	hours
4402037731	ES-8B-20180217	2/17/2018	E300	14797-55-8_NO3	Nitrate as NO3	28	H	5.0	10	mg/l	J-	h	Holding time	78.55	48	hours
4402051291	ES-7-20180303	3/3/2018	E300	14797-55-8_NO3	Nitrate as NO3	94	H	2.5	5.0	mg/l	J-	h	Holding time	104.13	48	hours
4402059321	ES-19-20180313	3/13/2018	E300	14797-55-8_NO3	Nitrate as NO3	4.5	H	0.25	0.50	mg/l	J-	h	Holding time	54.18	48	hours
4402061981	ES-26-20180315	3/15/2018	E300	14797-55-8_NO3	Nitrate as NO3	80	H	2.5	5.0	mg/l	J-	h	Holding time	52.35	48	hours
4402075151	AA-18-20180329	3/29/2018	E300	16887-00-6	Chloride	200	F1	13	25	mg/l	J-	m	MS/MSD %R	-,76	80-120	%
4402075151	AA-18-20180329	3/29/2018	E300	14797-55-8_NO3	Nitrate as NO3	54	F1	13	25	mg/l	J-	m	MS/MSD %R	-,77	80-120	%
4402075151	AA-18-20180329	3/29/2018	E300	14808-79-8	Sulfate	400	F1	13	25	mg/l	J-	m	MS/MSD %R	-,69	80-120	%

Table V. Overall Qualified Results

SDG	Client Sample ID	Sample Date	Method	Client Analyte ID	Analyte	Lab Result	Lab Qualifier	SQL	PQL	Units	Validator Qualifier	Reason Code	Data Quality Indicator	Qualification Finding	Acceptance Criteria	
4402075151	DBMW-10-20180329	3/29/2018	E300	16887-00-6	Chloride	280		13	25	mg/l	J-	m	MS/MSD %R	-,76	80-120	%
4402075151	DBMW-10-20180329	3/29/2018	E300	14797-55-8_NO3	Nitrate as NO3	39		2.5	5.0	mg/l	J-	m	MS/MSD %R	-,77	80-120	%
4402075151	DBMW-12-20180329	3/29/2018	E300	14808-79-8	Sulfate	4000		130	250	mg/l	J-	m	MS/MSD %R	-,69	80-120	%
4402075151	DBMW-12-20180329	3/29/2018	E300	14797-55-8_NO3	Nitrate as NO3	80		5.0	10	mg/l	J-	m	MS/MSD %R	-,77	80-120	%
4402075151	DBMW-12-20180329	3/29/2018	E300	16887-00-6	Chloride	1500		130	250	mg/l	J-	m	MS/MSD %R	-,76	80-120	%
4402075151	DBMW-9-20180329	3/29/2018	E300	14797-55-8_NO3	Nitrate as NO3	100		5.0	10	mg/l	J-	m	MS/MSD %R	-,77	80-120	%
4402075151	DBMW-9-20180329	3/29/2018	E300	14808-79-8	Sulfate	1800		50	100	mg/l	J-	m	MS/MSD %R	-,69	80-120	%
4402075151	DBMW-9-20180329	3/29/2018	E300	16887-00-6	Chloride	330		5.0	10	mg/l	J-	m	MS/MSD %R	-,76	80-120	%
4402075151	DBMW-9-20180329-FD	3/29/2018	E300	16887-00-6	Chloride	330		5.0	10	mg/l	J-	m	MS/MSD %R	-,76	80-120	%
4402075151	DBMW-9-20180329-FD	3/29/2018	E300	14808-79-8	Sulfate	1800		50	100	mg/l	J-	m	MS/MSD %R	-,69	80-120	%
4402075151	DBMW-9-20180329-FD	3/29/2018	E300	14797-55-8_NO3	Nitrate as NO3	100		5.0	10	mg/l	J-	m	MS/MSD %R	-,77	80-120	%
4402076941	DBMW-16-20180330	3/30/2018	E300	14808-79-8	Sulfate	600		13	25	mg/l	J+	m	MS/MSD %R	125,-	80-120	%
4402076941	DBMW-18-20180330-FD	3/30/2018	E300	14808-79-8	Sulfate	780		13	25	mg/l	J+	m	MS/MSD %R	125,-	80-120	%
4402076941	MW-05-20180330	3/30/2018	E300	14808-79-8	Sulfate	1700		50	100	mg/l	J+	m	MS/MSD %R	125,-	80-120	%
4402076941	MW-10-20180330	3/30/2018	E300	14808-79-8	Sulfate	1500		50	100	mg/l	J+	m	MS/MSD %R	125,-	80-120	%
4402076941	MW-11-20180330	3/30/2018	E300	14808-79-8	Sulfate	1400		13	25	mg/l	J+	m	MS/MSD %R	125,-	80-120	%
4402076941	MW-18-20180330	3/30/2018	E300	14808-79-8	Sulfate	1200		50	100	mg/l	J+	m	MS/MSD %R	125,-	80-120	%
4402078221	ES-13-20180402	4/2/2018	E300	14797-55-8_NO3	Nitrate as NO3	38	J	25	50	mg/l	J	sp	< PQL			
4402086321	MW-10-20180411	4/11/2018	E300	14797-55-8_NO3	Nitrate as NO3	9.8		1.3	2.5	mg/l	J+	m	MS/MSD %R	-,132	80-120	%
4402086321	MW-11-20180411	4/11/2018	E300	14797-55-8_NO3	Nitrate as NO3	24	F1	0.50	1.0	mg/l	J+	m	MS/MSD %R	-,132	80-120	%
4402091771	ES-14B-20180417	4/17/2018	E300	14797-55-8_NO3	Nitrate as NO3	15	J	13	25	mg/l	J	sp	< PQL			
4402097061	MW-15-20180424	4/24/2018	E300	14797-55-8_NO3	Nitrate as NO3	0.28	J	0.25	0.50	mg/l	J	sp	< PQL			
4402099511	MW-19-20180426	4/26/2018	E300	14797-55-8_NO3	Nitrate as NO3	3.7	J	2.5	5.0	mg/l	J	sp	< PQL			
4402243101	ES-22A-20181113	11/13/2018	E300	14797-55-8_NO3	Nitrate as NO3	23	H	1.3	2.5	mg/l	J-	h	Holding time	56	48	hours
4402243101	ES-22A-20181113-FD	11/13/2018	E300	14797-55-8_NO3	Nitrate as NO3	23	H	1.3	2.5	mg/l	J-	h	Holding time	57	48	hours
4402243101	ES-23A-20181113	11/13/2018	E300	14797-55-8_NO3	Nitrate as NO3	75	H	2.5	5.0	mg/l	J-	h	Holding time	57	48	hours
4402243101	ES-23B-20181113	11/13/2018	E300	14797-55-8_NO3	Nitrate as NO3		UH	0.50	1.0	mg/l	UJ	h	Holding time	58	48	hours
4402243101	ES-24-20181113	11/13/2018	E300	14797-55-8_NO3	Nitrate as NO3		UH	13	25	mg/l	UJ	h	Holding time	59	48	hours
4401985411	ES-3-100.0-20171212	12/12/2017	E300.1	14866-68-3	Chlorate	0.099	J	0.084	0.34	mg/kg	J	sp	< PQL			
4401985411	ES-3-110.0-20171212	12/12/2017	E300.1	14866-68-3	Chlorate	0.084	J	0.076	0.30	mg/kg	J	sp	< PQL			
4401985411	ES-3-120.0-20171212	12/12/2017	E300.1	14866-68-3	Chlorate	0.089	J	0.080	0.32	mg/kg	J	sp	< PQL			
4401985411	ES-3-40.0-20171212	12/12/2017	E300.1	14866-68-3	Chlorate	0.18	J	0.054	0.22	mg/kg	J	sp	< PQL			
4401986631	ES-2-10.0-20171213	12/13/2017	E300.1	14866-68-3	Chlorate	2.3		0.054	0.22	mg/kg	J+	m	MS/MSD %R	136,140	75-125	%
4401986631	ES-2-100.0-20171214	12/14/2017	E300.1	14866-68-3	Chlorate	3.1		0.085	0.34	mg/kg	J+	m	MS/MSD %R	136,140	75-125	%
4401986631	ES-2-110.0-20171214	12/14/2017	E300.1	14866-68-3	Chlorate	0.19	J	0.080	0.32	mg/kg	J+	m,sp	MS/MSD %R; < PQL	136,140	75-125	%
4401986631	ES-2-120.0-20171214	12/14/2017	E300.1	14866-68-3	Chlorate	0.38		0.072	0.29	mg/kg	J+	m	MS/MSD %R	136,140	75-125	%
4401986631	ES-2-20.0-20171213	12/13/2017	E300.1	14866-68-3	Chlorate	9.2		0.27	1.1	mg/kg	J+	m	MS/MSD %R	136,140	75-125	%
4401986631	ES-2-30.0-20171214	12/14/2017	E300.1	14866-68-3	Chlorate	3.9		0.054	0.22	mg/kg	J+	m	MS/MSD %R	136,140	75-125	%
4401986631	ES-2-40.0-20171214	12/14/2017	E300.1	14866-68-3	Chlorate	3.4	F1	0.055	0.22	mg/kg	J+	m	MS/MSD %R	136,140	75-125	%
4401986631	ES-2-50.0-20171214	12/14/2017	E300.1	14866-68-3	Chlorate	2.6		0.054	0.22	mg/kg	J+	m	MS/MSD %R	136,140	75-125	%
4401986631	ES-2-60.0-20171214	12/14/2017	E300.1	14866-68-3	Chlorate	7.6		0.32	1.3	mg/kg	J+	m	MS/MSD %R	136,140	75-125	%
4401986631	ES-2-70.0-20171214	12/14/2017	E300.1	14866-68-3	Chlorate	20		0.76	3.1	mg/kg	J+	m	MS/MSD %R	136,140	75-125	%
4401986631	ES-2-80.0-20171214	12/14/2017	E300.1	14866-68-3	Chlorate	18		0.74	2.9	mg/kg	J+	m	MS/MSD %R	136,140	75-125	%
4401986631	ES-2-90.0-20171214	12/14/2017	E300.1	14866-68-3	Chlorate	18		1.6	6.5	mg/kg	J+	m	MS/MSD %R	136,140	75-125	%
4401987721	ES-5-110.0-20171216	12/16/2017	E300.1	14866-68-3	Chlorate	0.16	J	0.10	0.40	mg/kg	J	sp	< PQL			
4401987721	ESB-2-40.0-20171215	12/15/2017	E300.1	14866-68-3	Chlorate	0.20	J	0.054	0.22	mg/kg	J	sp	< PQL			
4401987721	ESB-3-120.0-20171217	12/17/2017	E300.1	14866-68-3	Chlorate	0.13	J	0.072	0.29	mg/kg	J	sp	< PQL			
4401987721	ESB-3-130.0-20171218	12/18/2017	E300.1	14866-68-3	Chlorate	0.17	J	0.14	0.54	mg/kg	J	sp	< PQL			
4401987721	ESB-3-150.0-20171218	12/18/2017	E300.1	14866-68-3	Chlorate	0.083	J	0.078	0.31	mg/kg	J	sp	< PQL			
4401987721	ESB-3-80.0-20171217	12/17/2017	E300.1	14866-68-3	Chlorate	2.0		0.079	0.32	mg/kg	J	fd	FD RPD	104	50	%
4401987721	ESB-3-80.0-20171217-FD	12/17/2017	E300.1	14866-68-3	Chlorate	6.3		0.74	2.9	mg/kg	J	fd	FD RPD	104	50	%

Table V. Overall Qualified Results

SDG	Client Sample ID	Sample Date	Method	Client Analyte ID	Analyte	Lab Result	Lab Qualifier	SQL	PQL	Units	Validator Qualifier	Reason Code	Data Quality Indicator	Qualification Finding	Acceptance Criteria	
4401987721	ESB-6-10.0-20171217	12/17/2017	E300.1	14866-68-3	Chlorate	0.056	J	0.052	0.21	mg/kg	J	sp	< PQL			
4401987721	ESB-6-150.0-20171218	12/18/2017	E300.1	14866-68-3	Chlorate	0.093	J	0.070	0.28	mg/kg	J	sp	< PQL			
4401989641	ESB-1-30.0-20171220	12/20/2017	E300.1	14866-68-3	Chlorate	0.13	J	0.053	0.21	mg/kg	J	sp	< PQL			
4401989641	ESB-1-40.0-20171220	12/20/2017	E300.1	14866-68-3	Chlorate	0.11	J	0.053	0.21	mg/kg	J	sp	< PQL			
4401989641	ESB-4-10.0-20171218	12/18/2017	E300.1	14866-68-3	Chlorate	6.4		0.26	1.1	mg/kg	J-	m	MS/MSD %R	65,-	75-125	%
4401989641	ESB-4-130.0-20171218	12/18/2017	E300.1	14866-68-3	Chlorate	0.25	J	0.081	0.32	mg/kg	J	sp	< PQL			
4401989641	ESB-4-140.0-20171218	12/18/2017	E300.1	14866-68-3	Chlorate	0.24	J	0.073	0.29	mg/kg	J	sp	< PQL			
4401989641	ESB-4-150.0-20171218	12/18/2017	E300.1	14866-68-3	Chlorate	0.15	J	0.077	0.31	mg/kg	J	sp	< PQL			
4401989641	ESB-4-20.0-20171218	12/18/2017	E300.1	14866-68-3	Chlorate	31		0.53	2.1	mg/kg	J-	m	MS/MSD %R	65,-	75-125	%
4401989641	ESB-4-30.0-20171218	12/18/2017	E300.1	14866-68-3	Chlorate	10		0.26	1.1	mg/kg	J-	m	MS/MSD %R	65,-	75-125	%
4401989641	ESB-4-40.0-20171218	12/18/2017	E300.1	14866-68-3	Chlorate	1.4	F1	0.27	1.1	mg/kg	J-	m	MS/MSD %R	65,-	75-125	%
4401989641	ESB-4-50.0-20171218	12/18/2017	E300.1	14866-68-3	Chlorate	0.27		0.053	0.21	mg/kg	J-	m	MS/MSD %R	65,-	75-125	%
4401989641	ESB-4-60.0-20171218	12/18/2017	E300.1	14866-68-3	Chlorate	5.7		0.38	1.5	mg/kg	J-	m	MS/MSD %R	65,-	75-125	%
4401989641	ESB-4-70.0-20171218	12/18/2017	E300.1	14866-68-3	Chlorate	10		0.39	1.5	mg/kg	J-	m	MS/MSD %R	65,-	75-125	%
4401989641	ESB-4-80.0-20171218	12/18/2017	E300.1	14866-68-3	Chlorate	4.3		0.34	1.4	mg/kg	J-	m	MS/MSD %R	65,-	75-125	%
4401989641	ESB-5-10.0-20171218	12/18/2017	E300.1	14866-68-3	Chlorate	1.5		0.26	1.1	mg/kg	J-	m	MS/MSD %R	65,-	75-125	%
4401989641	ESB-5-100.0-20171219	12/19/2017	E300.1	14866-68-3	Chlorate		U	0.068	0.27	mg/kg	UJ	m	MS/MSD %R	65,-	75-125	%
4401989641	ESB-5-110.0-20171219	12/19/2017	E300.1	14866-68-3	Chlorate		U	0.069	0.27	mg/kg	UJ	m	MS/MSD %R	65,-	75-125	%
4401989641	ESB-5-120.0-20171219	12/19/2017	E300.1	14866-68-3	Chlorate		U	0.066	0.26	mg/kg	UJ	m	MS/MSD %R	65,-	75-125	%
4401989641	ESB-5-150.0-20171219	12/19/2017	E300.1	14866-68-3	Chlorate	0.068	J	0.068	0.27	mg/kg	J	sp	< PQL			
4401989641	ESB-5-20.0-20171218	12/18/2017	E300.1	14866-68-3	Chlorate	0.77	F1	0.054	0.22	mg/kg	J-	m	MS/MSD %R	65,-	75-125	%
4401989641	ESB-5-30.0-20171218	12/18/2017	E300.1	14866-68-3	Chlorate	2.3		0.26	1.1	mg/kg	J-	m	MS/MSD %R	65,-	75-125	%
4401989641	ESB-5-40.0-20171218	12/18/2017	E300.1	14866-68-3	Chlorate	1.3		0.27	1.1	mg/kg	J-	m	MS/MSD %R	65,-	75-125	%
4401989641	ESB-5-50.0-20171218	12/18/2017	E300.1	14866-68-3	Chlorate	0.12	J	0.054	0.22	mg/kg	J-	m,sp	MS/MSD %R; < PQL	65,-	75-125	%
4401989641	ESB-5-60.0-20171218	12/18/2017	E300.1	14866-68-3	Chlorate	0.19	J	0.053	0.21	mg/kg	J-	m,sp	MS/MSD %R; < PQL	65,-	75-125	%
4401989641	ESB-5-70.0-20171218	12/18/2017	E300.1	14866-68-3	Chlorate	11		0.42	1.7	mg/kg	J-	m	MS/MSD %R	65,-	75-125	%
4401989641	ESB-5-80.0-20171218	12/18/2017	E300.1	14866-68-3	Chlorate	4.7		0.44	1.8	mg/kg	J-	m	MS/MSD %R	65,-	75-125	%
4401989641	ESB-5-90.0-20171219	12/19/2017	E300.1	14866-68-3	Chlorate		U	0.067	0.27	mg/kg	UJ	m	MS/MSD %R	65,-	75-125	%
4401990671	ESB-1-100.0-20171220	12/20/2017	E300.1	14866-68-3	Chlorate	0.13	J	0.096	0.38	mg/kg	J	sp	< PQL			
4401990671	ESB-1-80.0-20171220	12/20/2017	E300.1	14866-68-3	Chlorate	0.20	J	0.071	0.28	mg/kg	J	sp	< PQL			
4401990671	ESB-1-80.0-20171220-FD	12/20/2017	E300.1	14866-68-3	Chlorate	0.20	J	0.071	0.28	mg/kg	J	sp	< PQL			
4401990671	ESB-1-90.0-20171220	12/20/2017	E300.1	14866-68-3	Chlorate	0.096	J	0.083	0.33	mg/kg	J	sp	< PQL			
4401990671	ESB-7-100.0-20171220	12/20/2017	E300.1	14866-68-3	Chlorate	0.10	J	0.070	0.28	mg/kg	J	sp	< PQL			
4401990671	ESB-7-80.0-20171220	12/20/2017	E300.1	14866-68-3	Chlorate	0.26	J	0.11	0.42	mg/kg	J	sp	< PQL			
4401990671	ESB-7-80.0-20171220-FD	12/20/2017	E300.1	14866-68-3	Chlorate	0.23	J	0.12	0.49	mg/kg	J	sp	< PQL			
4401996091	ES-30-10.0-20180102	1/2/2018	E300.1	14866-68-3	Chlorate	0.19	J	0.052	0.21	mg/kg	J	sp	< PQL			
4401996091	ES-30-60.0-20180103	1/3/2018	E300.1	14866-68-3	Chlorate	51		0.85	3.4	mg/kg	J-	m	MS/MSD %R	-,68	75-125	%
4401996091	ES-30-70.0-20180103	1/3/2018	E300.1	14866-68-3	Chlorate	25		0.71	2.9	mg/kg	J-	m	MS/MSD %R	-,68	75-125	%
4401996091	ES-30-80.0-20180103	1/3/2018	E300.1	14866-68-3	Chlorate	5.2		0.080	0.32	mg/kg	J-	m	MS/MSD %R	-,68	75-125	%
4401996091	ES-30-80.0-20180103-FD	1/3/2018	E300.1	14866-68-3	Chlorate	5.2	F1	0.080	0.32	mg/kg	J-	m	MS/MSD %R	-,68	75-125	%
4401996091	ES-6-100.0-20180103	1/3/2018	E300.1	14866-68-3	Chlorate	0.18	J	0.070	0.28	mg/kg	J	sp	< PQL			
4401997691	ES-29-10.0-20180105	1/5/2018	E300.1	14866-68-3	Chlorate	0.096	J	0.053	0.21	mg/kg	J	sp	< PQL			
4401997691	ES-30-100.0-20180103	1/3/2018	E300.1	14866-68-3	Chlorate	0.17	J	0.11	0.44	mg/kg	J	sp	< PQL			
4401997691	ES-30-110.0-20180103	1/3/2018	E300.1	14866-68-3	Chlorate	0.24	J	0.077	0.31	mg/kg	J	sp	< PQL			
4401997691	ES-31-110.0-20180104	1/4/2018	E300.1	14866-68-3	Chlorate	0.21	J	0.080	0.32	mg/kg	J	sp	< PQL			
4401997691	ES-31-120.0-20180104	1/4/2018	E300.1	14866-68-3	Chlorate	0.14	J	0.069	0.28	mg/kg	J	sp	< PQL			
4401997691	ES-31-80.0-20180104	1/4/2018	E300.1	14866-68-3	Chlorate	0.12	J	0.066	0.26	mg/kg	J	sp	< PQL			
4401999471	ES-28-100.0-20180107	1/7/2018	E300.1	14866-68-3	Chlorate	0.078	J	0.077	0.31	mg/kg	J	sp	< PQL			
4401999471	ES-28-80.0-20180107	1/7/2018	E300.1	14866-68-3	Chlorate	0.089	J	0.083	0.33	mg/kg	J	sp	< PQL			
4401999471	ES-28-80.0-20180107-FD	1/7/2018	E300.1	14866-68-3	Chlorate	0.11	J	0.090	0.36	mg/kg	J	sp	< PQL			
4401999471	ES-28-90.0-20180107	1/7/2018	E300.1	14866-68-3	Chlorate	0.078	J	0.076	0.30	mg/kg	J	sp	< PQL			

Table V. Overall Qualified Results

SDG	Client Sample ID	Sample Date	Method	Client Analyte ID	Analyte	Lab Result	Lab Qualifier	SQL	PQL	Units	Validator Qualifier	Reason Code	Data Quality Indicator	Qualification Finding	Acceptance Criteria	
4401999471	ES-29-60.0-20180106	1/6/2018	E300.1	14866-68-3	Chlorate	0.12	J	0.078	0.31	mg/kg	J	sp	< PQL			
4401999471	ES-29-70.0-20180106	1/6/2018	E300.1	14866-68-3	Chlorate	0.087	J	0.074	0.30	mg/kg	J	sp	< PQL			
4401999471	ES-7-120.0-20180108	1/8/2018	E300.1	14866-68-3	Chlorate	0.074	J	0.070	0.28	mg/kg	J	sp	< PQL			
4401999471	ES-7-50.0-20180108	1/8/2018	E300.1	14866-68-3	Chlorate	0.060	J	0.053	0.21	mg/kg	J	sp	< PQL			
4402001331	ES-1-20.0-20180108	1/8/2018	E300.1	14866-68-3	Chlorate	0.058	J	0.053	0.21	mg/kg	J	sp	< PQL			
4402001331	ES-1-20.0-20180108-FD	1/8/2018	E300.1	14866-68-3	Chlorate	0.065	J	0.054	0.21	mg/kg	J	sp	< PQL			
4402001331	ES-1-30.0-20180108	1/8/2018	E300.1	14866-68-3	Chlorate	0.17	J	0.054	0.22	mg/kg	J	sp	< PQL			
4402001331	ES-1-40.0-20180108	1/8/2018	E300.1	14866-68-3	Chlorate	0.17	J	0.055	0.22	mg/kg	J	sp	< PQL			
4402001331	ES-1-80.0-20180108-FD	1/8/2018	E300.1	14866-68-3	Chlorate	2.6	F1	0.079	0.32	mg/kg	J+	m	MS/MSD %R	-,149	75-125	%
4402007231	ESB-8-100.0-20180110	1/10/2018	E300.1	14866-68-3	Chlorate	0.15	J	0.070	0.28	mg/kg	J	sp	< PQL			
4402007231	ESB-8-130.0-20180111	1/11/2018	E300.1	14866-68-3	Chlorate	0.086	J	0.068	0.27	mg/kg	J	sp	< PQL			
4402007231	ESB-8-140.0-20180111	1/11/2018	E300.1	14866-68-3	Chlorate	0.12	J	0.067	0.27	mg/kg	J	sp	< PQL			
4402007231	ESB-8-40.0-20180110	1/10/2018	E300.1	14866-68-3	Chlorate	0.097	J	0.054	0.22	mg/kg	J	sp	< PQL			
4402007231	ESB-8-80.0-20180110	1/10/2018	E300.1	14866-68-3	Chlorate	0.074	J	0.070	0.28	mg/kg	J	sp	< PQL			
4402007231	ESB-8-80.0-20180110-FD	1/10/2018	E300.1	14866-68-3	Chlorate	0.076	J	0.072	0.29	mg/kg	J	sp	< PQL			
4402007231	ESB-8-90.0-20180110	1/10/2018	E300.1	14866-68-3	Chlorate	0.075	J	0.068	0.27	mg/kg	J	sp	< PQL			
4402007231	ESB-9-10.0-20180110	1/10/2018	E300.1	14866-68-3	Chlorate	0.070	J	0.052	0.21	mg/kg	J	sp	< PQL			
4402007231	ESB-9-100.0-20180110	1/10/2018	E300.1	14866-68-3	Chlorate	0.099	J	0.068	0.27	mg/kg	J	sp	< PQL			
4402007231	ESB-9-110.0-20180110	1/10/2018	E300.1	14866-68-3	Chlorate	0.24	J	0.068	0.27	mg/kg	J	sp	< PQL			
4402007231	ESB-9-120.0-20180110	1/10/2018	E300.1	14866-68-3	Chlorate	0.11	J	0.073	0.29	mg/kg	J	sp	< PQL			
4402007231	ESB-9-130.0-20180111	1/11/2018	E300.1	14866-68-3	Chlorate	0.14	J	0.064	0.26	mg/kg	J	sp	< PQL			
4402007231	ESB-9-140.0-20180111	1/11/2018	E300.1	14866-68-3	Chlorate	0.17	J	0.064	0.25	mg/kg	J	sp	< PQL			
4402007231	ESB-9-150.0-20180111	1/11/2018	E300.1	14866-68-3	Chlorate	0.20	J	0.072	0.29	mg/kg	J	sp	< PQL			
4402007231	ESB-9-70.0-20180110	1/10/2018	E300.1	14866-68-3	Chlorate	0.079	J	0.069	0.27	mg/kg	J	sp	< PQL			
4402007231	ESB-9-80.0-20180110	1/10/2018	E300.1	14866-68-3	Chlorate	0.077	J	0.069	0.28	mg/kg	J	sp	< PQL			
4402007231	ESB-9-80.0-20180110-FD	1/10/2018	E300.1	14866-68-3	Chlorate	0.076	J	0.066	0.26	mg/kg	J	sp	< PQL			
4402007231	ESB-9-90.0-20180110	1/10/2018	E300.1	14866-68-3	Chlorate	0.17	J	0.069	0.27	mg/kg	J	sp	< PQL			
4402012161	ES-28-20180116	1/16/2018	E300.1	14866-68-3	Chlorate	170	J	100	200	ug/l	J	sp	< PQL			
4402013521	ESB-13-100.0-20180116	1/16/2018	E300.1	14866-68-3	Chlorate	0.21	J	0.066	0.26	mg/kg	J	sp	< PQL			
4402013521	ESB-13-130.0-20180116	1/16/2018	E300.1	14866-68-3	Chlorate	0.14	J	0.066	0.27	mg/kg	J	sp	< PQL			
4402013521	ESB-13-140.0-20180116	1/16/2018	E300.1	14866-68-3	Chlorate	0.14	J	0.071	0.28	mg/kg	J	sp	< PQL			
4402013521	ESB-13-60.0-20180116	1/16/2018	E300.1	14866-68-3	Chlorate	0.19	J	0.080	0.32	mg/kg	J	sp	< PQL			
4402013521	ESB-13-70.0-20180116	1/16/2018	E300.1	14866-68-3	Chlorate	0.16	J	0.10	0.41	mg/kg	J	sp	< PQL			
4402013521	ESB-13-80.0-20180116	1/16/2018	E300.1	14866-68-3	Chlorate	0.21	J	0.070	0.28	mg/kg	J	sp	< PQL			
4402013521	ESB-13-80.0-20180116-FD	1/16/2018	E300.1	14866-68-3	Chlorate	0.21	J	0.070	0.28	mg/kg	J	sp	< PQL			
4402016741	ES-12-120.0-20180121	1/21/2018	E300.1	14866-68-3	Chlorate	0.097	J	0.076	0.30	mg/kg	J	sp	< PQL			
4402016741	ES-12-80.0-20180120	1/20/2018	E300.1	14866-68-3	Chlorate	0.13	J	0.074	0.30	mg/kg	J	sp	< PQL			
4402023821	ES-20-60.0-20180130	1/30/2018	E300.1	14866-68-3	Chlorate	0.14	J	0.097	0.39	mg/kg	J	sp	< PQL			
4402023821	ES-20-80.0-20180130	1/30/2018	E300.1	14866-68-3	Chlorate	0.077	J	0.069	0.28	mg/kg	J	sp	< PQL			
4402023821	ES-20-90.0-20180130	1/30/2018	E300.1	14866-68-3	Chlorate	0.098	J	0.078	0.31	mg/kg	J	sp	< PQL			
4402027171	ESB-15-10.0-20180204	2/4/2018	E300.1	14866-68-3	Chlorate	11		0.27	1.1	mg/kg	J-	m	MS/MSD %R	31,-	75-125	%
4402027171	ESB-15-100.0-20180204	2/4/2018	E300.1	14866-68-3	Chlorate		U	0.066	0.26	mg/kg	UJ	m	MS/MSD %R	31,-	75-125	%
4402027171	ESB-15-110.0-20180204	2/4/2018	E300.1	14866-68-3	Chlorate		U	0.067	0.27	mg/kg	UJ	m	MS/MSD %R	31,-	75-125	%
4402027171	ESB-15-130.0-20180204	2/4/2018	E300.1	14866-68-3	Chlorate		U	0.072	0.29	mg/kg	UJ	m	MS/MSD %R	31,-	75-125	%
4402027171	ESB-15-140.0-20180205	2/5/2018	E300.1	14866-68-3	Chlorate		U	0.067	0.27	mg/kg	UJ	m	MS/MSD %R	31,-	75-125	%
4402027171	ESB-15-150.0-20180205	2/5/2018	E300.1	14866-68-3	Chlorate	0.084	J	0.069	0.28	mg/kg	J-	m,sp	MS/MSD %R; < PQL	31,-	75-125	%
4402027171	ESB-15-20.0-20180204	2/4/2018	E300.1	14866-68-3	Chlorate	8.6		0.69	2.7	mg/kg	J-	m	MS/MSD %R	31,-	75-125	%
4402027171	ESB-15-20.0-20180204-FD	2/4/2018	E300.1	14866-68-3	Chlorate	7.6		0.69	2.8	mg/kg	J-	m	MS/MSD %R	31,-	75-125	%
4402027171	ESB-15-30.0-20180204	2/4/2018	E300.1	14866-68-3	Chlorate	14		0.70	2.8	mg/kg	J-	m	MS/MSD %R	31,-	75-125	%
4402027171	ESB-15-40.0-20180204	2/4/2018	E300.1	14866-68-3	Chlorate	14		0.35	1.4	mg/kg	J-	m	MS/MSD %R	31,-	75-125	%
4402027171	ESB-15-50.0-20180204	2/4/2018	E300.1	14866-68-3	Chlorate	4.7		0.32	1.3	mg/kg	J-	m	MS/MSD %R	31,-	75-125	%

Table V. Overall Qualified Results

SDG	Client Sample ID	Sample Date	Method	Client Analyte ID	Analyte	Lab Result	Lab Qualifier	SQL	PQL	Units	Validator Qualifier	Reason Code	Data Quality Indicator	Qualification Finding	Acceptance Criteria	
4402027171	ESB-15-60.0-20180204	2/4/2018	E300.1	14866-68-3	Chlorate	4.1	F1	0.36	1.5	mg/kg	J-	m	MS/MSD %R	31,-	75-125	%
4402027171	ESB-15-70.0-20180204	2/4/2018	E300.1	14866-68-3	Chlorate	14		0.36	1.4	mg/kg	J-	m	MS/MSD %R	31,-	75-125	%
4402027171	ESB-15-80.0-20180204	2/4/2018	E300.1	14866-68-3	Chlorate	0.087	J	0.070	0.28	mg/kg	J-	m,sp	MS/MSD %R; < PQL	31,-	75-125	%
4402027171	ESB-15-80.0-20180204-FD	2/4/2018	E300.1	14866-68-3	Chlorate	0.077	J	0.068	0.27	mg/kg	J-	m,sp	MS/MSD %R; < PQL	31,-	75-125	%
4402027171	ESB-15-90.0-20180204	2/4/2018	E300.1	14866-68-3	Chlorate	0.16	J	0.067	0.27	mg/kg	J-	m,sp	MS/MSD %R; < PQL	31,-	75-125	%
4402036811	ES-10-50.0-20180216	2/16/2018	E300.1	14866-68-3	Chlorate	0.30	J	0.093	0.37	mg/kg	J	sp	< PQL			
4402036811	ES-10-70.0-20180216	2/16/2018	E300.1	14866-68-3	Chlorate	0.25	J	0.075	0.30	mg/kg	J	sp	< PQL			
4402036811	ES-8-10.0-20180215	2/15/2018	E300.1	14866-68-3	Chlorate	0.081	J	0.052	0.21	mg/kg	J	sp	< PQL			
4402036811	ES-8-100.0-20180215	2/15/2018	E300.1	14866-68-3	Chlorate	0.085	J	0.068	0.27	mg/kg	J	sp	< PQL			
4402036811	ES-8-120.0-20180215	2/15/2018	E300.1	14866-68-3	Chlorate	0.26	J	0.076	0.30	mg/kg	J	sp	< PQL			
4402036811	ES-8-20.0-20180215	2/15/2018	E300.1	14866-68-3	Chlorate	0.13	J	0.052	0.21	mg/kg	J	sp	< PQL			
4402036811	ES-8-20.0-20180215-FD	2/15/2018	E300.1	14866-68-3	Chlorate	0.13	J	0.053	0.21	mg/kg	J	sp	< PQL			
4402037721	ES-11-80.0-20180219	2/19/2018	E300.1	14866-68-3	Chlorate	0.22	J	0.083	0.33	mg/kg	J	sp	< PQL			
4402037721	ESB-14-70.0-20180218	2/18/2018	E300.1	14866-68-3	Chlorate	0.19	J	0.074	0.29	mg/kg	J	sp	< PQL			
4402037721	ESB-14-80.0-20180218	2/18/2018	E300.1	14866-68-3	Chlorate	0.10	J	0.067	0.27	mg/kg	J	sp	< PQL			
4402039431	ESB-16-120.0-20180221	2/21/2018	E300.1	14866-68-3	Chlorate	0.25	J	0.070	0.28	mg/kg	J	sp	< PQL			
4402039431	ESB-16-150.0-20180221	2/21/2018	E300.1	14866-68-3	Chlorate	0.082	J	0.072	0.29	mg/kg	J	sp	< PQL			
4402039431	ESB-16-60.0-20180221	2/21/2018	E300.1	14866-68-3	Chlorate	1.4	F1	0.070	0.28	mg/kg	J-	m	MS/MSD %R	-,72	75-125	%
4402039431	ESB-16-90.0-20180221	2/21/2018	E300.1	14866-68-3	Chlorate	0.12	J	0.067	0.27	mg/kg	J	sp	< PQL			
4402039431	ESB-16-90.0-20180221-FD	2/21/2018	E300.1	14866-68-3	Chlorate	0.11	J	0.069	0.27	mg/kg	J	sp	< PQL			
4402045371	ESB-17-40.0-20180227	2/27/2018	E300.1	14866-68-3	Chlorate	2.0	F1	0.068	0.27	mg/kg	J-	m	MS/MSD %R	73,65	75-125	%
4402045921	ES-16-70.0-20180228	2/28/2018	E300.1	14866-68-3	Chlorate	0.44	J	0.32	1.3	mg/kg	J	sp	< PQL			
4402045921	ES-19-50.0-20180228	2/28/2018	E300.1	14866-68-3	Chlorate	0.11	J	0.076	0.30	mg/kg	J	sp	< PQL			
4402045921	ES-19-70.0-20180228	2/28/2018	E300.1	14866-68-3	Chlorate	1.2	J	0.33	1.3	mg/kg	J	sp	< PQL			
4402047301	ES-18-40.0-20180302	3/2/2018	E300.1	14866-68-3	Chlorate	4.0	F1	0.51	2.0	mg/kg	J-	m	MS/MSD %R	-,46	75-125	%
4402051171	ES-25B-30.0-20180306	3/6/2018	E300.1	14866-68-3	Chlorate	0.086	J	0.065	0.26	mg/kg	J	sp	< PQL			
4402051171	ES-25B-50.0-20180306	3/6/2018	E300.1	14866-68-3	Chlorate	0.14	J	0.066	0.26	mg/kg	J	sp	< PQL			
4402051171	ES-25B-60.0-20180306	3/6/2018	E300.1	14866-68-3	Chlorate	0.082	J	0.069	0.27	mg/kg	J	sp	< PQL			
4402051171	ES-25B-70.0-20180306	3/6/2018	E300.1	14866-68-3	Chlorate	0.10	J	0.066	0.26	mg/kg	J	sp	< PQL			
4402051171	ES-26-60.0-20180306	3/6/2018	E300.1	14866-68-3	Chlorate	4.6	F1	0.092	0.37	mg/kg	J+	m	MS/MSD %R	143,-	75-125	%
4402051171	ES-26-70.0-20180306	3/6/2018	E300.1	14866-68-3	Chlorate	5.3		0.074	0.29	mg/kg	J+	m	MS/MSD %R	143,-	75-125	%
4402051171	ES-26-80.0-20180306	3/6/2018	E300.1	14866-68-3	Chlorate	2.9		0.088	0.35	mg/kg	J+	m	MS/MSD %R	143,-	75-125	%
4402051171	ES-26-80.0-20180306-FD	3/6/2018	E300.1	14866-68-3	Chlorate	3.7		0.43	1.7	mg/kg	J+	m	MS/MSD %R	143,-	75-125	%
4402053381	ES-27-50.0-20180307	3/7/2018	E300.1	14866-68-3	Chlorate	0.076	J	0.073	0.29	mg/kg	J	sp	< PQL			
4402053381	ES-27-70.0-20180307	3/7/2018	E300.1	14866-68-3	Chlorate	0.085	J	0.078	0.31	mg/kg	J	sp	< PQL			
4402063471	ESB-10-10.0-20180316	3/16/2018	E300.1	14866-68-3	Chlorate	0.059	J	0.052	0.21	mg/kg	J	sp	< PQL			
4402063471	ESB-10-100.0-20180316	3/16/2018	E300.1	14866-68-3	Chlorate	0.093	J	0.069	0.28	mg/kg	J	sp	< PQL			
4402063471	ESB-10-110.0-20180316	3/16/2018	E300.1	14866-68-3	Chlorate	0.26	J	0.069	0.28	mg/kg	J	sp	< PQL			
4402063471	ESB-10-140.0-20180317	3/17/2018	E300.1	14866-68-3	Chlorate	0.22	J	0.069	0.28	mg/kg	J	sp	< PQL			
4402063471	ESB-10-30.0-20180316	3/16/2018	E300.1	14866-68-3	Chlorate	0.095	J	0.053	0.21	mg/kg	J	sp	< PQL			
4402063471	ESB-10-50.0-20180316	3/16/2018	E300.1	14866-68-3	Chlorate	0.12	J	0.052	0.21	mg/kg	J	sp	< PQL			
4402063471	ESB-12-10.0-20180318	3/18/2018	E300.1	14866-68-3	Chlorate	0.14	J	0.052	0.21	mg/kg	J	sp	< PQL			
4402064851	ES-15-60.0-20180320	3/20/2018	E300.1	14866-68-3	Chlorate	0.25	J	0.073	0.29	mg/kg	J	sp	< PQL			
4402064851	ESB-11-80.0-20180319	3/19/2018	E300.1	14866-68-3	Chlorate	0.14	J	0.062	0.25	mg/kg	J	sp	< PQL			
4402064851	ESB-11-80.0-20180319-FD	3/19/2018	E300.1	14866-68-3	Chlorate	0.13	J	0.061	0.25	mg/kg	J	sp	< PQL			
4402079621	MCF-05-20180403	4/3/2018	E300.1	14866-68-3	Chlorate	110	J	100	200	ug/l	J	sp	< PQL			
4402083881	ES-28-20180409	4/9/2018	E300.1	14866-68-3	Chlorate	99	J	50	100	ug/l	J	sp	< PQL			
4402087831	HMW-18-20180412	4/12/2018	E300.1	14866-68-3	Chlorate	140	J	50	200	ug/l	J	sp	< PQL			
4402099511	HMWWT6-20180426	4/26/2018	E300.1	14866-68-3	Chlorate	72	J	25	100	ug/l	J	sp	< PQL			
4402099511	MW-19-20180426	4/26/2018	E300.1	14866-68-3	Chlorate	11	J	10	40	ug/l	J	sp	< PQL			
4402138851	NERT5.11S1-10.0-20180615	6/15/2018	E300.1	14866-68-3	Chlorate	0.12	J	0.056	0.22	mg/kg	J	sp	< PQL			

Table V. Overall Qualified Results

SDG	Client Sample ID	Sample Date	Method	Client Analyte ID	Analyte	Lab Result	Lab Qualifier	SQL	PQL	Units	Validator Qualifier	Reason Code	Data Quality Indicator	Qualification Finding	Acceptance Criteria	
4402138851	NERT5.11S1-20.0-20180615	6/15/2018	E300.1	14866-68-3	Chlorate	1.4	F1	0.057	0.23	mg/kg	J+	m	MS/MSD %R	-,132	75-125	%
4402138851	NERT5.91S1-60.0-20180617	6/17/2018	E300.1	14866-68-3	Chlorate	0.12	J	0.071	0.28	mg/kg	J	sp	< PQL			
4402138851	NERT5.91S1-70.0-20180617	6/17/2018	E300.1	14866-68-3	Chlorate	0.098	J	0.072	0.29	mg/kg	J	sp	< PQL			
4402138851	NERT5.91S1-70.0-20180617-FD	6/17/2018	E300.1	14866-68-3	Chlorate	0.12	J	0.073	0.29	mg/kg	J	sp	< PQL			
4402138851	NERT5.91S1-80.0-20180617	6/17/2018	E300.1	14866-68-3	Chlorate	0.12	J	0.075	0.30	mg/kg	J	sp	< PQL			
4402138891	NERT5.49S1-60.0-20180618	6/18/2018	E300.1	14866-68-3	Chlorate	0.098	J	0.054	0.22	mg/kg	J	sp	< PQL			
4402138891	NERT5.49S1-60.0-20180618-FD	6/18/2018	E300.1	14866-68-3	Chlorate	0.10	J	0.055	0.22	mg/kg	J	sp	< PQL			
4402141041	NERT4.21N1-40.0-20180619	6/19/2018	E300.1	14866-68-3	Chlorate	0.11	J	0.058	0.23	mg/kg	J	sp	< PQL			
4402141041	NERT4.38N1-20.0-20180620	6/20/2018	E300.1	14866-68-3	Chlorate	0.063	J	0.053	0.21	mg/kg	J	sp	< PQL			
4402146141	NERT3.80S1-30.0-20180627	6/27/2018	E300.1	14866-68-3	Chlorate	0.072	J	0.058	0.23	mg/kg	J	sp	< PQL			
4402146141	NERT3.80S1-30.0-20180627-FD	6/27/2018	E300.1	14866-68-3	Chlorate	0.074	J	0.059	0.24	mg/kg	J	sp	< PQL			
4402170661	ES-24-40.0-20180730	7/30/2018	E300.1	14866-68-3	Chlorate	0.083	J	0.027	0.27	mg/kg	J	sp	< PQL			
4402170661	ES-24-50.0-20180731	7/31/2018	E300.1	14866-68-3	Chlorate	0.11	J	0.027	0.27	mg/kg	J	sp	< PQL			
4402170661	ES-24-60.0-20180731	7/31/2018	E300.1	14866-68-3	Chlorate	0.029	J	0.026	0.26	mg/kg	J	sp	< PQL			
4402170661	ES-24-60.0-20180731-FD	7/31/2018	E300.1	14866-68-3	Chlorate	0.029	J	0.027	0.27	mg/kg	J	sp	< PQL			
4402172611	ES-22-10.0-20180801	8/1/2018	E300.1	14866-68-3	Chlorate		U	0.024	0.24	mg/kg	UJ	m	MS/MSD %R	-,74	75-125	%
4402172611	ES-22-100.0-20180802	8/2/2018	E300.1	14866-68-3	Chlorate		U	0.026	0.26	mg/kg	UJ	m	MS/MSD %R	-,74	75-125	%
4402172611	ES-22-110.0-20180802	8/2/2018	E300.1	14866-68-3	Chlorate		U	0.029	0.29	mg/kg	UJ	m	MS/MSD %R	-,74	75-125	%
4402172611	ES-22-120.0-20180802	8/2/2018	E300.1	14866-68-3	Chlorate	0.46	F1	0.027	0.27	mg/kg	J-	m	MS/MSD %R	-,74	75-125	%
4402172611	ES-22-20.0-20180801	8/1/2018	E300.1	14866-68-3	Chlorate		U	0.022	0.22	mg/kg	UJ	m	MS/MSD %R	-,74	75-125	%
4402172611	ES-22-20.0-20180801-FD	8/1/2018	E300.1	14866-68-3	Chlorate		U	0.022	0.22	mg/kg	UJ	m	MS/MSD %R	-,74	75-125	%
4402172611	ES-22-30.0-20180801	8/1/2018	E300.1	14866-68-3	Chlorate	0.085	J	0.028	0.28	mg/kg	J-	m,sp	MS/MSD %R; < PQL	-,74	75-125	%
4402172611	ES-22-40.0-20180801	8/1/2018	E300.1	14866-68-3	Chlorate	0.18	J	0.028	0.28	mg/kg	J-	m,sp	MS/MSD %R; < PQL	-,74	75-125	%
4402172611	ES-22-40.0-20180801-FD	8/1/2018	E300.1	14866-68-3	Chlorate	0.19	J	0.028	0.28	mg/kg	J-	m,sp	MS/MSD %R; < PQL	-,74	75-125	%
4402172611	ES-22-50.0-20180801	8/1/2018	E300.1	14866-68-3	Chlorate	0.72		0.027	0.27	mg/kg	J-	m	MS/MSD %R	-,74	75-125	%
4402172611	ES-22-60.0-20180801	8/1/2018	E300.1	14866-68-3	Chlorate	8.6		0.16	1.6	mg/kg	J-	m	MS/MSD %R	-,74	75-125	%
4402172611	ES-22-70.0-20180801	8/1/2018	E300.1	14866-68-3	Chlorate	4.9		0.13	1.3	mg/kg	J-	m	MS/MSD %R	-,74	75-125	%
4402172611	ES-22-80.0-20180801	8/1/2018	E300.1	14866-68-3	Chlorate	4.7		0.14	1.4	mg/kg	J-	m	MS/MSD %R	-,74	75-125	%
4402172611	ES-22-90.0-20180802	8/2/2018	E300.1	14866-68-3	Chlorate	0.79		0.029	0.29	mg/kg	J-	m	MS/MSD %R	-,74	75-125	%
4402176671	ES-21-10.0-20180806	8/6/2018	E300.1	14866-68-3	Chlorate		U	0.13	1.3	mg/kg	UJ	m	MS/MSD %R	64,-	75-125	%
4402176671	ES-21-100.0-20180806	8/6/2018	E300.1	14866-68-3	Chlorate		U	0.13	1.3	mg/kg	UJ	m	MS/MSD %R	64,-	75-125	%
4402176671	ES-21-110.0-20180806	8/6/2018	E300.1	14866-68-3	Chlorate		U	0.029	0.29	mg/kg	UJ	m	MS/MSD %R	64,-	75-125	%
4402176671	ES-21-120.0-20180806	8/6/2018	E300.1	14866-68-3	Chlorate		U	0.14	1.4	mg/kg	UJ	m	MS/MSD %R	64,-	75-125	%
4402176671	ES-21-20.0-20180806	8/6/2018	E300.1	14866-68-3	Chlorate	0.43		0.027	0.27	mg/kg	J-	m	MS/MSD %R	64,-	75-125	%
4402176671	ES-21-30.0-20180806	8/6/2018	E300.1	14866-68-3	Chlorate	0.83		0.027	0.27	mg/kg	J-	m	MS/MSD %R	64,-	75-125	%
4402176671	ES-21-30.0-20180806-FD	8/6/2018	E300.1	14866-68-3	Chlorate	0.84		0.026	0.26	mg/kg	J-	m	MS/MSD %R	64,-	75-125	%
4402176671	ES-21-40.0-20180806	8/6/2018	E300.1	14866-68-3	Chlorate	3.2		0.13	1.3	mg/kg	J-	m	MS/MSD %R	64,-	75-125	%
4402176671	ES-21-50.0-20180806	8/6/2018	E300.1	14866-68-3	Chlorate	0.29		0.028	0.28	mg/kg	J-	m	MS/MSD %R	64,-	75-125	%
4402176671	ES-21-60.0-20180806	8/6/2018	E300.1	14866-68-3	Chlorate	2.2		0.14	1.4	mg/kg	J-	m	MS/MSD %R	64,-	75-125	%
4402176671	ES-21-70.0-20180806	8/6/2018	E300.1	14866-68-3	Chlorate	2.0		0.14	1.4	mg/kg	J-	m	MS/MSD %R	64,-	75-125	%
4402176671	ES-21-80.0-20180806	8/6/2018	E300.1	14866-68-3	Chlorate	0.20	JF1	0.027	0.27	mg/kg	J-	m,sp	MS/MSD %R; < PQL	64,-	75-125	%
4402176671	ES-21-90.0-20180806	8/6/2018	E300.1	14866-68-3	Chlorate		U	0.028	0.28	mg/kg	UJ	m	MS/MSD %R	64,-	75-125	%
4402181261	ES-23-10.0-20180813	8/13/2018	E300.1	14866-68-3	Chlorate	0.080	J	0.026	0.26	mg/kg	J-	m,sp	MS/MSD %R; < PQL	54,52	75-125	%
4402181261	ES-23-100.0-20180814	8/14/2018	E300.1	14866-68-3	Chlorate		U	0.026	0.26	mg/kg	UJ	m	MS/MSD %R	54,52	75-125	%
4402181261	ES-23-110.0-20180814	8/14/2018	E300.1	14866-68-3	Chlorate		U	0.029	0.29	mg/kg	UJ	m	MS/MSD %R	54,52	75-125	%
4402181261	ES-23-120.0-20180814	8/14/2018	E300.1	14866-68-3	Chlorate		U	0.026	0.26	mg/kg	UJ	m	MS/MSD %R	54,52	75-125	%
4402181261	ES-23-130.0-20180814	8/14/2018	E300.1	14866-68-3	Chlorate		U	0.052	0.52	mg/kg	UJ	m	MS/MSD %R	54,52	75-125	%
4402181261	ES-23-140.0-20180814	8/14/2018	E300.1	14866-68-3	Chlorate		U	0.027	0.27	mg/kg	UJ	m	MS/MSD %R	54,52	75-125	%
4402181261	ES-23-150.0-20180814	8/14/2018	E300.1	14866-68-3	Chlorate		U	0.029	0.29	mg/kg	UJ	m	MS/MSD %R	54,52	75-125	%
4402181261	ES-23-160.0-20180814	8/14/2018	E300.1	14866-68-3	Chlorate		U	0.027	0.27	mg/kg	UJ	m	MS/MSD %R	54,52	75-125	%
4402181261	ES-23-170.0-20180814	8/14/2018	E300.1	14866-68-3	Chlorate		U	0.026	0.26	mg/kg	UJ	m	MS/MSD %R	54,52	75-125	%

Table V. Overall Qualified Results

SDG	Client Sample ID	Sample Date	Method	Client Analyte ID	Analyte	Lab Result	Lab Qualifier	SQL	PQL	Units	Validator Qualifier	Reason Code	Data Quality Indicator	Qualification Finding	Acceptance Criteria	
4402181261	ES-23-180.0-20180814	8/14/2018	E300.1	14866-68-3	Chlorate		U	0.025	0.25	mg/kg	UJ	m	MS/MSD %R	54,52	75-125	%
4402181261	ES-23-20.0-20180813	8/13/2018	E300.1	14866-68-3	Chlorate	0.23	J	0.025	0.25	mg/kg	J-	m,sp	MS/MSD %R; < PQL	54,52	75-125	%
4402181261	ES-23-30.0-20180813	8/13/2018	E300.1	14866-68-3	Chlorate	0.54		0.027	0.27	mg/kg	J-	m	MS/MSD %R	54,52	75-125	%
4402181261	ES-23-40.0-20180813	8/13/2018	E300.1	14866-68-3	Chlorate	0.12	J	0.052	0.52	mg/kg	J-	m,sp	MS/MSD %R; < PQL	54,52	75-125	%
4402181261	ES-23-40.0-20180813-FD	8/13/2018	E300.1	14866-68-3	Chlorate	0.14	J	0.052	0.52	mg/kg	J-	m,sp	MS/MSD %R; < PQL	54,52	75-125	%
4402181261	ES-23-50.0-20180813	8/13/2018	E300.1	14866-68-3	Chlorate		U	0.026	0.26	mg/kg	UJ	m	MS/MSD %R	54,52	75-125	%
4402181261	ES-23-60.0-20180813	8/13/2018	E300.1	14866-68-3	Chlorate		U	0.025	0.25	mg/kg	UJ	m	MS/MSD %R	54,52	75-125	%
4402181261	ES-23-70.0-20180813	8/13/2018	E300.1	14866-68-3	Chlorate		U	0.028	0.28	mg/kg	UJ	m	MS/MSD %R	54,52	75-125	%
4402181261	ES-23-80.0-20180813	8/13/2018	E300.1	14866-68-3	Chlorate		U	0.026	0.26	mg/kg	UJ	m	MS/MSD %R	54,52	75-125	%
4402181261	ES-23-90.0-20180814	8/14/2018	E300.1	14866-68-3	Chlorate		U	0.028	0.28	mg/kg	UJ	m	MS/MSD %R	54,52	75-125	%
4402182141	ES-23-190.0-20180815	8/15/2018	E300.1	14866-68-3	Chlorate	2.6		0.029	0.29	mg/kg	J	m,ld	MS/MSD %R, RPD	11,57; 37	75-125; 25	%
4402182141	ES-23-200.0-20180815	8/15/2018	E300.1	14866-68-3	Chlorate	1.2	F1F2	0.027	0.27	mg/kg	J	m,ld	MS/MSD %R, RPD	11,57; 37	75-125; 25	%
4401985411	ES-3-10.0-20171212	12/12/2017	E314.0	14797-73-0	Perchlorate	1.2		0.10	0.11	mg/kg	J-	m	MS/MSD %R	63,62	80-120	%
4401985411	ES-3-100.0-20171212	12/12/2017	E314.0	14797-73-0	Perchlorate		U	0.016	0.017	mg/kg	UJ	m	MS/MSD %R	63,62	80-120	%
4401985411	ES-3-110.0-20171212	12/12/2017	E314.0	14797-73-0	Perchlorate		U	0.014	0.015	mg/kg	UJ	m	MS/MSD %R	63,62	80-120	%
4401985411	ES-3-120.0-20171212	12/12/2017	E314.0	14797-73-0	Perchlorate		U	0.015	0.016	mg/kg	UJ	m	MS/MSD %R	63,62	80-120	%
4401985411	ES-3-20.0-20171212	12/12/2017	E314.0	14797-73-0	Perchlorate	0.17		0.010	0.011	mg/kg	J-	m	MS/MSD %R	63,62	80-120	%
4401985411	ES-3-30.0-20171212	12/12/2017	E314.0	14797-73-0	Perchlorate	0.18		0.011	0.011	mg/kg	J-	m	MS/MSD %R	63,62	80-120	%
4401985411	ES-3-40.0-20171212	12/12/2017	E314.0	14797-73-0	Perchlorate	0.14		0.010	0.011	mg/kg	J-	m	MS/MSD %R	63,62	80-120	%
4401985411	ES-3-50.0-20171212	12/12/2017	E314.0	14797-73-0	Perchlorate	1.0		0.083	0.087	mg/kg	J-	m	MS/MSD %R	63,62	80-120	%
4401985411	ES-3-50.0-20171212-FD	12/12/2017	E314.0	14797-73-0	Perchlorate	0.98		0.077	0.081	mg/kg	J-	m	MS/MSD %R	63,62	80-120	%
4401985411	ES-3-60.0-20171212	12/12/2017	E314.0	14797-73-0	Perchlorate	2.2		0.14	0.15	mg/kg	J-	m	MS/MSD %R	63,62	80-120	%
4401985411	ES-3-70.0-20171212	12/12/2017	E314.0	14797-73-0	Perchlorate	6.5		0.67	0.71	mg/kg	J-	m	MS/MSD %R	63,62	80-120	%
4401985411	ES-3-80.0-20171212	12/12/2017	E314.0	14797-73-0	Perchlorate	8.9		0.73	0.77	mg/kg	J-	m	MS/MSD %R	63,62	80-120	%
4401985411	ES-3-90.0-20171212	12/12/2017	E314.0	14797-73-0	Perchlorate	0.10		0.015	0.016	mg/kg	J-	m	MS/MSD %R	63,62	80-120	%
4401985411	ES-4-10.0-20171212	12/12/2017	E314.0	14797-73-0	Perchlorate	0.13		0.010	0.011	mg/kg	J-	m	MS/MSD %R	63,62	80-120	%
4401985411	ES-4-110.0-20171213	12/13/2017	E314.0	14797-73-0	Perchlorate		UF1	0.014	0.015	mg/kg	UJ	m	MS/MSD %R	63,62	80-120	%
4401985411	ES-4-120.0-20171213	12/13/2017	E314.0	14797-73-0	Perchlorate	0.11		0.015	0.016	mg/kg	J-	m	MS/MSD %R	63,62	80-120	%
4401985411	ES-4-20.0-20171212	12/12/2017	E314.0	14797-73-0	Perchlorate	0.41		0.021	0.022	mg/kg	J-	m	MS/MSD %R	63,62	80-120	%
4401985411	ES-4-30.0-20171212	12/12/2017	E314.0	14797-73-0	Perchlorate	0.66		0.051	0.054	mg/kg	J-	m	MS/MSD %R	63,62	80-120	%
4401985411	ES-4-40.0-20171212	12/12/2017	E314.0	14797-73-0	Perchlorate	0.15		0.011	0.011	mg/kg	J-	m	MS/MSD %R	63,62	80-120	%
4401985411	ES-4-50.0-20171212	12/12/2017	E314.0	14797-73-0	Perchlorate	2.7		0.72	0.76	mg/kg	J-	m	MS/MSD %R	63,62	80-120	%
4401987721	ES-5-10.0-20171216	12/16/2017	E314.0	14797-73-0	Perchlorate	4.7		0.21	0.22	mg/kg	J-	m	MS/MSD %R	74,79	80-120	%
4401987721	ES-5-20.0-20171216	12/16/2017	E314.0	14797-73-0	Perchlorate	2.3		0.10	0.11	mg/kg	J-	m	MS/MSD %R	74,79	80-120	%
4401987721	ES-5-20.0-20171216-FD	12/16/2017	E314.0	14797-73-0	Perchlorate	2.5		0.10	0.11	mg/kg	J-	m	MS/MSD %R	74,79	80-120	%
4401987721	ES-5-30.0-20171216	12/16/2017	E314.0	14797-73-0	Perchlorate	0.60		0.052	0.055	mg/kg	J-	m	MS/MSD %R	74,79	80-120	%
4401987721	ES-5-40.0-20171216	12/16/2017	E314.0	14797-73-0	Perchlorate	2.7		0.22	0.23	mg/kg	J-	m	MS/MSD %R	74,79	80-120	%
4401987721	ESB-2-100.0-20171216	12/16/2017	E314.0	14797-73-0	Perchlorate	4.1		0.079	0.083	mg/kg	J+	m	MS/MSD %R	-,128	80-120	%
4401987721	ESB-3-40.0-20171217	12/17/2017	E314.0	14797-73-0	Perchlorate	0.47	F1	0.050	0.053	mg/kg	J+	m	MS/MSD %R	-,128	80-120	%
4401987721	ESB-3-80.0-20171217	12/17/2017	E314.0	14797-73-0	Perchlorate	1.0		0.015	0.016	mg/kg	J	fd	FD RPD	86	50	%
4401987721	ESB-3-80.0-20171217-FD	12/17/2017	E314.0	14797-73-0	Perchlorate	2.5		0.070	0.073	mg/kg	J	fd	FD RPD	86	50	%
4401987721	ESB-6-100.0-20171217	12/17/2017	E314.0	14797-73-0	Perchlorate	0.049		0.012	0.013	mg/kg	J-	m	MS/MSD %R	74,79	80-120	%
4401987721	ESB-6-110.0-20171217	12/17/2017	E314.0	14797-73-0	Perchlorate		U	0.013	0.014	mg/kg	UJ	m	MS/MSD %R	74,79	80-120	%
4401987721	ESB-6-120.0-20171218	12/18/2017	E314.0	14797-73-0	Perchlorate		U	0.014	0.015	mg/kg	UJ	m	MS/MSD %R	74,79	80-120	%
4401987721	ESB-6-40.0-20171217	12/17/2017	E314.0	14797-73-0	Perchlorate		UF1	0.010	0.011	mg/kg	UJ	m	MS/MSD %R	74,79	80-120	%
4401987721	ESB-6-90.0-20171217	12/17/2017	E314.0	14797-73-0	Perchlorate	3.0		0.30	0.32	mg/kg	J-	m	MS/MSD %R	74,79	80-120	%
4401989641	ESB-1-10.0-20171220	12/20/2017	E314.0	14797-73-0	Perchlorate	0.67	F1	0.020	0.021	mg/kg	J-	m	MS/MSD %R	-,76	80-120	%
4401989641	ESB-5-20.0-20171218	12/18/2017	E314.0	14797-73-0	Perchlorate	0.26		0.020	0.022	mg/kg	J	fd	FD RPD	86	50	%
4401989641	ESB-5-20.0-20171218-FD	12/18/2017	E314.0	14797-73-0	Perchlorate	0.65		0.050	0.053	mg/kg	J	fd	FD RPD	86	50	%
4401990671	ESB-7-70.0-20171220	12/20/2017	E314.0	14797-73-0	Perchlorate	0.014	J	0.014	0.015	mg/kg	J	sp	< PQL			
4401990671	ESB-7-80.0-20171220	12/20/2017	E314.0	14797-73-0	Perchlorate		UF2F1	0.020	0.021	mg/kg	UJ	m,ld	MS/MSD %R, RPD	30,42; 33	80-120; 20	%

Table V. Overall Qualified Results

SDG	Client Sample ID	Sample Date	Method	Client Analyte ID	Analyte	Lab Result	Lab Qualifier	SQL	PQL	Units	Validator Qualifier	Reason Code	Data Quality Indicator	Qualification Finding	Acceptance Criteria
4401990671	ESB-7-80.0-20171220-FD	12/20/2017	E314.0	14797-73-0	Perchlorate		U	0.023	0.025	mg/kg	UJ	m,ld	MS/MSD %R, RPD	30,42; 33	80-120; 20 %
4401996091	ES-30-10.0-20180102	1/2/2018	E314.0	14797-73-0	Perchlorate	0.25		0.0099	0.010	mg/kg	J+	m	MS/MSD %R	143,174	80-120 %
4401996091	ES-30-20.0-20180102	1/2/2018	E314.0	14797-73-0	Perchlorate	1.8		0.13	0.14	mg/kg	J+	m	MS/MSD %R	143,174	80-120 %
4401996091	ES-30-20.0-20180102-FD	1/2/2018	E314.0	14797-73-0	Perchlorate	1.1		0.098	0.10	mg/kg	J+	m	MS/MSD %R	143,174	80-120 %
4401996091	ES-30-30.0-20180103	1/3/2018	E314.0	14797-73-0	Perchlorate	0.54		0.050	0.053	mg/kg	J+	m	MS/MSD %R	143,174	80-120 %
4401996091	ES-30-40.0-20180103	1/3/2018	E314.0	14797-73-0	Perchlorate	0.43		0.051	0.053	mg/kg	J+	m	MS/MSD %R	143,174	80-120 %
4401996091	ES-30-50.0-20180103	1/3/2018	E314.0	14797-73-0	Perchlorate	0.75		0.051	0.054	mg/kg	J+	m	MS/MSD %R	143,174	80-120 %
4401996091	ES-6-10.0-20180102	1/2/2018	E314.0	14797-73-0	Perchlorate	7.4		0.52	0.55	mg/kg	J+	m	MS/MSD %R	143,174	80-120 %
4401996091	ES-6-20.0-20180102	1/2/2018	E314.0	14797-73-0	Perchlorate	0.18		0.010	0.011	mg/kg	J+	m	MS/MSD %R	143,174	80-120 %
4401996091	ES-6-20.0-20180102-FD	1/2/2018	E314.0	14797-73-0	Perchlorate	0.17		0.010	0.011	mg/kg	J+	m	MS/MSD %R	143,174	80-120 %
4401996091	ES-6-30.0-20180102	1/2/2018	E314.0	14797-73-0	Perchlorate	1.9		0.17	0.18	mg/kg	J+	m	MS/MSD %R	143,174	80-120 %
4401996091	ES-6-40.0-20180102	1/2/2018	E314.0	14797-73-0	Perchlorate	0.81	F1	0.068	0.072	mg/kg	J+	m	MS/MSD %R	143,174	80-120 %
4401996091	ES-6-50.0-20180102	1/2/2018	E314.0	14797-73-0	Perchlorate	1.3		0.075	0.079	mg/kg	J+	m	MS/MSD %R	143,174	80-120 %
4401996091	ES-6-60.0-20180102	1/2/2018	E314.0	14797-73-0	Perchlorate	1.0		0.065	0.068	mg/kg	J+	m	MS/MSD %R	143,174	80-120 %
4401996091	ES-6-70.0-20180102	1/2/2018	E314.0	14797-73-0	Perchlorate	2.3		0.17	0.18	mg/kg	J+	m	MS/MSD %R	143,174	80-120 %
4401996091	ES-6-80.0-20180102	1/2/2018	E314.0	14797-73-0	Perchlorate	2.4		0.17	0.18	mg/kg	J+	m	MS/MSD %R	143,174	80-120 %
4401996091	ES-6-80.0-20180102-FD	1/2/2018	E314.0	14797-73-0	Perchlorate	2.0		0.16	0.17	mg/kg	J+	m	MS/MSD %R	143,174	80-120 %
4401996091	ES-6-90.0-20180103	1/3/2018	E314.0	14797-73-0	Perchlorate	0.84		0.065	0.069	mg/kg	J+	m	MS/MSD %R	143,174	80-120 %
4401999471	ES-7-10.0-20180107	1/7/2018	E314.0	14797-73-0	Perchlorate	0.13		0.010	0.011	mg/kg	J+	m	MS/MSD %R	198,180	80-120 %
4401999471	ES-7-20.0-20180107	1/7/2018	E314.0	14797-73-0	Perchlorate	0.44		0.020	0.021	mg/kg	J+	m	MS/MSD %R	198,180	80-120 %
4401999471	ES-7-30.0-20180107	1/7/2018	E314.0	14797-73-0	Perchlorate	1.6		0.10	0.10	mg/kg	J+	m	MS/MSD %R	198,180	80-120 %
4401999471	ES-7-40.0-20180108	1/8/2018	E314.0	14797-73-0	Perchlorate	0.65	F1	0.050	0.053	mg/kg	J+	m	MS/MSD %R	198,180	80-120 %
4401999471	ES-7-50.0-20180108	1/8/2018	E314.0	14797-73-0	Perchlorate	0.014		0.010	0.011	mg/kg	J+	m	MS/MSD %R	198,180	80-120 %
4401999471	ES-7-60.0-20180108	1/8/2018	E314.0	14797-73-0	Perchlorate	1.1		0.072	0.076	mg/kg	J+	m	MS/MSD %R	198,180	80-120 %
4401999471	ES-7-70.0-20180108	1/8/2018	E314.0	14797-73-0	Perchlorate	0.73		0.068	0.072	mg/kg	J+	m	MS/MSD %R	198,180	80-120 %
4401999471	ES-7-80.0-20180108	1/8/2018	E314.0	14797-73-0	Perchlorate	2.5		0.26	0.27	mg/kg	J+	m	MS/MSD %R	198,180	80-120 %
4402001331	ES-1-10.0-20180108	1/8/2018	E314.0	14797-73-0	Perchlorate	0.092	F1	0.010	0.011	mg/kg	J-	m	MS/MSD %R	73,-	80-120 %
4402001331	ES-1-100.0-20180108	1/8/2018	E314.0	14797-73-0	Perchlorate	22		0.80	0.84	mg/kg	J-	m	MS/MSD %R	73,-	80-120 %
4402001331	ES-1-110.0-20180109	1/9/2018	E314.0	14797-73-0	Perchlorate	2.2		0.071	0.075	mg/kg	J-	m	MS/MSD %R	73,-	80-120 %
4402001331	ES-1-120.0-20180109	1/9/2018	E314.0	14797-73-0	Perchlorate	0.48		0.012	0.013	mg/kg	J-	m	MS/MSD %R	73,-	80-120 %
4402001331	ES-1-20.0-20180108	1/8/2018	E314.0	14797-73-0	Perchlorate	0.014		0.010	0.011	mg/kg	J-	m	MS/MSD %R	73,-	80-120 %
4402001331	ES-1-20.0-20180108-FD	1/8/2018	E314.0	14797-73-0	Perchlorate	0.011		0.010	0.011	mg/kg	J-	m	MS/MSD %R	73,-	80-120 %
4402001331	ES-1-30.0-20180108	1/8/2018	E314.0	14797-73-0	Perchlorate	0.11		0.010	0.011	mg/kg	J-	m	MS/MSD %R	73,-	80-120 %
4402001331	ES-1-40.0-20180108	1/8/2018	E314.0	14797-73-0	Perchlorate	0.028		0.010	0.011	mg/kg	J-	m	MS/MSD %R	73,-	80-120 %
4402001331	ES-1-50.0-20180108	1/8/2018	E314.0	14797-73-0	Perchlorate	0.51		0.014	0.014	mg/kg	J-	m	MS/MSD %R	73,-	80-120 %
4402001331	ES-1-60.0-20180108	1/8/2018	E314.0	14797-73-0	Perchlorate	0.80		0.016	0.017	mg/kg	J-	m	MS/MSD %R	73,-	80-120 %
4402001331	ES-1-70.0-20180108	1/8/2018	E314.0	14797-73-0	Perchlorate	0.58		0.014	0.015	mg/kg	J-	m	MS/MSD %R	73,-	80-120 %
4402001331	ES-1-80.0-20180108	1/8/2018	E314.0	14797-73-0	Perchlorate	1.2		0.015	0.016	mg/kg	J-	m	MS/MSD %R	73,-	80-120 %
4402001331	ES-1-80.0-20180108-FD	1/8/2018	E314.0	14797-73-0	Perchlorate	1.0		0.015	0.016	mg/kg	J-	m	MS/MSD %R	73,-	80-120 %
4402001331	ES-1-90.0-20180108	1/8/2018	E314.0	14797-73-0	Perchlorate	14		0.30	0.32	mg/kg	J-	m	MS/MSD %R	73,-	80-120 %
4402007231	ESB-8-10.0-20180110	1/10/2018	E314.0	14797-73-0	Perchlorate	0.37		0.011	0.011	mg/kg	J-	m	MS/MSD %R	79,-	80-120 %
4402007231	ESB-8-20.0-20180110	1/10/2018	E314.0	14797-73-0	Perchlorate	0.55		0.010	0.011	mg/kg	J-	m	MS/MSD %R	79,-	80-120 %
4402007231	ESB-8-20.0-20180110-FD	1/10/2018	E314.0	14797-73-0	Perchlorate	0.45		0.010	0.011	mg/kg	J-	m	MS/MSD %R	79,-	80-120 %
4402007231	ESB-9-10.0-20180110	1/10/2018	E314.0	14797-73-0	Perchlorate	0.013	F1	0.0098	0.010	mg/kg	J-	m	MS/MSD %R	79,-	80-120 %
4402007231	ESB-9-100.0-20180110	1/10/2018	E314.0	14797-73-0	Perchlorate		U	0.013	0.013	mg/kg	UJ	m	MS/MSD %R	79,-	80-120 %
4402007231	ESB-9-110.0-20180110	1/10/2018	E314.0	14797-73-0	Perchlorate		U	0.013	0.013	mg/kg	UJ	m	MS/MSD %R	79,-	80-120 %
4402007231	ESB-9-120.0-20180110	1/10/2018	E314.0	14797-73-0	Perchlorate		U	0.014	0.014	mg/kg	UJ	m	MS/MSD %R	79,-	80-120 %
4402007231	ESB-9-130.0-20180111	1/11/2018	E314.0	14797-73-0	Perchlorate		U	0.012	0.013	mg/kg	UJ	m	MS/MSD %R	79,-	80-120 %
4402007231	ESB-9-140.0-20180111	1/11/2018	E314.0	14797-73-0	Perchlorate		U	0.012	0.013	mg/kg	UJ	m	MS/MSD %R	79,-	80-120 %
4402007231	ESB-9-150.0-20180111	1/11/2018	E314.0	14797-73-0	Perchlorate		U	0.014	0.014	mg/kg	UJ	m	MS/MSD %R	79,-	80-120 %
4402007231	ESB-9-20.0-20180110	1/10/2018	E314.0	14797-73-0	Perchlorate	4.1		0.20	0.21	mg/kg	J-	m	MS/MSD %R	79,-	80-120 %

Table V. Overall Qualified Results

SDG	Client Sample ID	Sample Date	Method	Client Analyte ID	Analyte	Lab Result	Lab Qualifier	SQL	PQL	Units	Validator Qualifier	Reason Code	Data Quality Indicator	Qualification Finding	Acceptance Criteria	
4402007231	ESB-9-20.0-20180110-FD	1/10/2018	E314.0	14797-73-0	Perchlorate	4.0		0.20	0.21	mg/kg	J-	m	MS/MSD %R	79,-	80-120	%
4402007231	ESB-9-30.0-20180110	1/10/2018	E314.0	14797-73-0	Perchlorate	0.78		0.0098	0.010	mg/kg	J-	m	MS/MSD %R	79,-	80-120	%
4402007231	ESB-9-37.5-20180110	1/10/2018	E314.0	14797-73-0	Perchlorate	0.19		0.012	0.013	mg/kg	J-	m	MS/MSD %R	79,-	80-120	%
4402007231	ESB-9-50.0-20180110	1/10/2018	E314.0	14797-73-0	Perchlorate	0.24		0.013	0.014	mg/kg	J-	m	MS/MSD %R	79,-	80-120	%
4402007231	ESB-9-60.0-20180110	1/10/2018	E314.0	14797-73-0	Perchlorate	3.3		0.065	0.069	mg/kg	J-	m	MS/MSD %R	79,-	80-120	%
4402007231	ESB-9-70.0-20180110	1/10/2018	E314.0	14797-73-0	Perchlorate		U	0.013	0.014	mg/kg	UJ	m	MS/MSD %R	79,-	80-120	%
4402007231	ESB-9-80.0-20180110	1/10/2018	E314.0	14797-73-0	Perchlorate		U	0.013	0.014	mg/kg	UJ	m	MS/MSD %R	79,-	80-120	%
4402007231	ESB-9-80.0-20180110-FD	1/10/2018	E314.0	14797-73-0	Perchlorate		U	0.013	0.013	mg/kg	UJ	m	MS/MSD %R	79,-	80-120	%
4402007231	ESB-9-90.0-20180110	1/10/2018	E314.0	14797-73-0	Perchlorate		U	0.013	0.014	mg/kg	UJ	m	MS/MSD %R	79,-	80-120	%
4402013521	ESB-13-10.0-20180116	1/16/2018	E314.0	14797-73-0	Perchlorate	0.31		0.010	0.011	mg/kg	J-	m	MS/MSD %R	51,35	80-120	%
4402013521	ESB-13-100.0-20180116	1/16/2018	E314.0	14797-73-0	Perchlorate		U	0.013	0.013	mg/kg	UJ	m	MS/MSD %R	51,35	80-120	%
4402013521	ESB-13-110.0-20180116	1/16/2018	E314.0	14797-73-0	Perchlorate		U	0.013	0.014	mg/kg	UJ	m	MS/MSD %R	51,35	80-120	%
4402013521	ESB-13-120.0-20180116	1/16/2018	E314.0	14797-73-0	Perchlorate		U	0.015	0.016	mg/kg	UJ	m	MS/MSD %R	51,35	80-120	%
4402013521	ESB-13-130.0-20180116	1/16/2018	E314.0	14797-73-0	Perchlorate		U	0.012	0.013	mg/kg	UJ	m	MS/MSD %R	51,35	80-120	%
4402013521	ESB-13-140.0-20180116	1/16/2018	E314.0	14797-73-0	Perchlorate	0.021		0.013	0.014	mg/kg	J-	m	MS/MSD %R	51,35	80-120	%
4402013521	ESB-13-150.0-20180116	1/16/2018	E314.0	14797-73-0	Perchlorate		U	0.015	0.016	mg/kg	UJ	m	MS/MSD %R	51,35	80-120	%
4402013521	ESB-13-20.0-20180116	1/16/2018	E314.0	14797-73-0	Perchlorate	3.0		0.034	0.036	mg/kg	J-	m	MS/MSD %R	51,35	80-120	%
4402013521	ESB-13-20.0-20180116-FD	1/16/2018	E314.0	14797-73-0	Perchlorate	2.9		0.086	0.091	mg/kg	J-	m	MS/MSD %R	51,35	80-120	%
4402013521	ESB-13-30.0-20180116	1/16/2018	E314.0	14797-73-0	Perchlorate	0.95		0.012	0.013	mg/kg	J-	m	MS/MSD %R	51,35	80-120	%
4402013521	ESB-13-40.0-20180116	1/16/2018	E314.0	14797-73-0	Perchlorate	1.6	F1	0.026	0.027	mg/kg	J-	m	MS/MSD %R	51,35	80-120	%
4402013521	ESB-13-50.0-20180116	1/16/2018	E314.0	14797-73-0	Perchlorate	0.45		0.013	0.014	mg/kg	J-	m	MS/MSD %R	51,35	80-120	%
4402013521	ESB-13-60.0-20180116	1/16/2018	E314.0	14797-73-0	Perchlorate	0.020		0.015	0.016	mg/kg	J-	m	MS/MSD %R	51,35	80-120	%
4402013521	ESB-13-70.0-20180116	1/16/2018	E314.0	14797-73-0	Perchlorate		U	0.020	0.021	mg/kg	UJ	m	MS/MSD %R	51,35	80-120	%
4402013521	ESB-13-80.0-20180116	1/16/2018	E314.0	14797-73-0	Perchlorate		U	0.013	0.014	mg/kg	UJ	m	MS/MSD %R	51,35	80-120	%
4402013521	ESB-13-80.0-20180116-FD	1/16/2018	E314.0	14797-73-0	Perchlorate		U	0.013	0.014	mg/kg	UJ	m	MS/MSD %R	51,35	80-120	%
4402013521	ESB-13-90.0-20180116	1/16/2018	E314.0	14797-73-0	Perchlorate		U	0.013	0.014	mg/kg	UJ	m	MS/MSD %R	51,35	80-120	%
4402017581	DBMW-17-20180123	1/23/2018	E314.0	14797-73-0	Perchlorate	2.6	J	0.95	4.0	ug/l	J	sp	< PQL			
4402017581	DBMW-17-20180123-FD	1/23/2018	E314.0	14797-73-0	Perchlorate	2.5	J	0.95	4.0	ug/l	J	sp	< PQL			
4402018741	ES-13-10.0-20180122	1/22/2018	E314.0	14797-73-0	Perchlorate	6.0		0.20	0.21	mg/kg	J-	m	MS/MSD %R	-,77	80-120	%
4402018741	ES-13-100.0-20180123	1/23/2018	E314.0	14797-73-0	Perchlorate	0.14		0.012	0.013	mg/kg	J-	m	MS/MSD %R	-,77	80-120	%
4402018741	ES-13-110.0-20180123	1/23/2018	E314.0	14797-73-0	Perchlorate		U	0.014	0.015	mg/kg	UJ	m	MS/MSD %R	-,77	80-120	%
4402018741	ES-13-120.0-20180123	1/23/2018	E314.0	14797-73-0	Perchlorate		U	0.013	0.014	mg/kg	UJ	m	MS/MSD %R	-,77	80-120	%
4402018741	ES-13-20.0-20180122	1/22/2018	E314.0	14797-73-0	Perchlorate	0.11		0.0098	0.010	mg/kg	J-	m	MS/MSD %R	-,77	80-120	%
4402018741	ES-13-20.0-20180122-FD	1/22/2018	E314.0	14797-73-0	Perchlorate	0.12		0.0098	0.010	mg/kg	J-	m	MS/MSD %R	-,77	80-120	%
4402018741	ES-13-30.0-20180122	1/22/2018	E314.0	14797-73-0	Perchlorate	0.67		0.010	0.010	mg/kg	J-	m	MS/MSD %R	-,77	80-120	%
4402018741	ES-13-40.0-20180123	1/23/2018	E314.0	14797-73-0	Perchlorate	0.23	F1	0.010	0.011	mg/kg	J-	m	MS/MSD %R	-,77	80-120	%
4402018741	ES-13-50.0-20180123	1/23/2018	E314.0	14797-73-0	Perchlorate	0.98		0.016	0.016	mg/kg	J-	m	MS/MSD %R	-,77	80-120	%
4402018741	ES-13-60.0-20180123	1/23/2018	E314.0	14797-73-0	Perchlorate	1.0		0.013	0.014	mg/kg	J-	m	MS/MSD %R	-,77	80-120	%
4402018741	ES-13-70.0-20180123	1/23/2018	E314.0	14797-73-0	Perchlorate	2.3		0.13	0.14	mg/kg	J-	m	MS/MSD %R	-,77	80-120	%
4402018741	ES-13-80.0-20180123	1/23/2018	E314.0	14797-73-0	Perchlorate	2.0		0.14	0.15	mg/kg	J-	m	MS/MSD %R	-,77	80-120	%
4402018741	ES-13-80.0-20180123-FD	1/23/2018	E314.0	14797-73-0	Perchlorate	2.0		0.14	0.15	mg/kg	J-	m	MS/MSD %R	-,77	80-120	%
4402018741	ES-13-90.0-20180123	1/23/2018	E314.0	14797-73-0	Perchlorate	0.49		0.012	0.013	mg/kg	J-	m	MS/MSD %R	-,77	80-120	%
4402023821	ES-20-10.0-20180130	1/30/2018	E314.0	14797-73-0	Perchlorate		U	0.0097	0.010	mg/kg	UJ	m,ld	MS/MSD %R, RPD	60,76; 23	80-120; 20	%
4402023821	ES-20-100.0-20180130	1/30/2018	E314.0	14797-73-0	Perchlorate		U	0.015	0.016	mg/kg	UJ	m,ld	MS/MSD %R, RPD	60,76; 23	80-120; 20	%
4402023821	ES-20-110.0-20180130	1/30/2018	E314.0	14797-73-0	Perchlorate		U	0.014	0.015	mg/kg	UJ	m,ld	MS/MSD %R, RPD	60,76; 23	80-120; 20	%
4402023821	ES-20-120.0-20180131	1/31/2018	E314.0	14797-73-0	Perchlorate		U	0.015	0.015	mg/kg	UJ	m,ld	MS/MSD %R, RPD	60,76; 23	80-120; 20	%
4402023821	ES-20-130.0-20180131	1/31/2018	E314.0	14797-73-0	Perchlorate		U	0.014	0.014	mg/kg	UJ	m,ld	MS/MSD %R, RPD	60,76; 23	80-120; 20	%
4402023821	ES-20-140.0-20180131	1/31/2018	E314.0	14797-73-0	Perchlorate		U	0.019	0.021	mg/kg	UJ	m,ld	MS/MSD %R, RPD	60,76; 23	80-120; 20	%
4402023821	ES-20-150.0-20180131	1/31/2018	E314.0	14797-73-0	Perchlorate		U	0.018	0.019	mg/kg	UJ	m,ld	MS/MSD %R, RPD	60,76; 23	80-120; 20	%
4402023821	ES-20-160.0-20180131	1/31/2018	E314.0	14797-73-0	Perchlorate		U	0.015	0.016	mg/kg	UJ	m,ld	MS/MSD %R, RPD	60,76; 23	80-120; 20	%
4402023821	ES-20-170.0-20180131	1/31/2018	E314.0	14797-73-0	Perchlorate		U	0.016	0.017	mg/kg	UJ	m,ld	MS/MSD %R, RPD	60,76; 23	80-120; 20	%

Table V. Overall Qualified Results

SDG	Client Sample ID	Sample Date	Method	Client Analyte ID	Analyte	Lab Result	Lab Qualifier	SQL	PQL	Units	Validator Qualifier	Reason Code	Data Quality Indicator	Qualification Finding	Acceptance Criteria
4402023821	ES-20-180.0-20180131	1/31/2018	E314.0	14797-73-0	Perchlorate		U	0.017	0.018	mg/kg	UJ	m,ld	MS/MSD %R, RPD	60,76; 23	80-120; 20 %
4402023821	ES-20-190.0-20180131	1/31/2018	E314.0	14797-73-0	Perchlorate		U	0.015	0.015	mg/kg	UJ	m	MS/MSD %R	62,63	80-120 %
4402023821	ES-20-20.0-20180130	1/30/2018	E314.0	14797-73-0	Perchlorate		U	0.0098	0.010	mg/kg	UJ	m,ld	MS/MSD %R, RPD	60,76; 23	80-120; 20 %
4402023821	ES-20-20.0-20180130-FD	1/30/2018	E314.0	14797-73-0	Perchlorate		U	0.0098	0.010	mg/kg	UJ	m,ld	MS/MSD %R, RPD	60,76; 23	80-120; 20 %
4402023821	ES-20-200.0-20180131	1/31/2018	E314.0	14797-73-0	Perchlorate		UF1	0.015	0.016	mg/kg	UJ	m	MS/MSD %R	62,63	80-120 %
4402023821	ES-20-30.0-20180130	1/30/2018	E314.0	14797-73-0	Perchlorate		U	0.010	0.011	mg/kg	UJ	m,ld	MS/MSD %R, RPD	60,76; 23	80-120; 20 %
4402023821	ES-20-40.0-20180130	1/30/2018	E314.0	14797-73-0	Perchlorate		UF2F1	0.010	0.011	mg/kg	UJ	m,ld	MS/MSD %R, RPD	60,76; 23	80-120; 20 %
4402023821	ES-20-50.0-20180130	1/30/2018	E314.0	14797-73-0	Perchlorate		U	0.018	0.019	mg/kg	UJ	m,ld	MS/MSD %R, RPD	60,76; 23	80-120; 20 %
4402023821	ES-20-60.0-20180130	1/30/2018	E314.0	14797-73-0	Perchlorate		U	0.018	0.019	mg/kg	UJ	m,ld	MS/MSD %R, RPD	60,76; 23	80-120; 20 %
4402023821	ES-20-70.0-20180130	1/30/2018	E314.0	14797-73-0	Perchlorate		U	0.016	0.017	mg/kg	UJ	m,ld	MS/MSD %R, RPD	60,76; 23	80-120; 20 %
4402023821	ES-20-80.0-20180130	1/30/2018	E314.0	14797-73-0	Perchlorate		U	0.013	0.014	mg/kg	UJ	m,ld	MS/MSD %R, RPD	60,76; 23	80-120; 20 %
4402023821	ES-20-80.0-20180130-FD	1/30/2018	E314.0	14797-73-0	Perchlorate		U	0.014	0.014	mg/kg	UJ	m,ld	MS/MSD %R, RPD	60,76; 23	80-120; 20 %
4402023821	ES-20-90.0-20180130	1/30/2018	E314.0	14797-73-0	Perchlorate		U	0.015	0.016	mg/kg	UJ	m,ld	MS/MSD %R, RPD	60,76; 23	80-120; 20 %
4402036811	ES-10-100.0-20180216	2/16/2018	E314.0	14797-73-0	Perchlorate		U	0.014	0.014	mg/kg	UJ	m	MS/MSD %R	76,-	80-120 %
4402036811	ES-10-110.0-20180216	2/16/2018	E314.0	14797-73-0	Perchlorate		U	0.013	0.014	mg/kg	UJ	m	MS/MSD %R	76,-	80-120 %
4402036811	ES-10-120.0-20180216	2/16/2018	E314.0	14797-73-0	Perchlorate		U	0.013	0.013	mg/kg	UJ	m	MS/MSD %R	76,-	80-120 %
4402036811	ES-10-70.0-20180216	2/16/2018	E314.0	14797-73-0	Perchlorate		U	0.14	0.15	mg/kg	UJ	m	MS/MSD %R	76,-	80-120 %
4402036811	ES-10-80.0-20180216	2/16/2018	E314.0	14797-73-0	Perchlorate		U	0.014	0.015	mg/kg	UJ	m	MS/MSD %R	76,-	80-120 %
4402036811	ES-10-90.0-20180216	2/16/2018	E314.0	14797-73-0	Perchlorate		U	0.014	0.015	mg/kg	UJ	m	MS/MSD %R	76,-	80-120 %
4402037721	ES-14-10.0-20180217	2/17/2018	E314.0	14797-73-0	Perchlorate		U	0.0098	0.010	mg/kg	UJ	m	MS/MSD %R	76,-	80-120 %
4402037721	ES-14-100.0-20180218	2/18/2018	E314.0	14797-73-0	Perchlorate		U	0.014	0.015	mg/kg	UJ	m	MS/MSD %R	76,-	80-120 %
4402037721	ES-14-110.0-20180218	2/18/2018	E314.0	14797-73-0	Perchlorate		U	0.013	0.014	mg/kg	UJ	m	MS/MSD %R	76,-	80-120 %
4402037721	ES-14-120.0-20180218	2/18/2018	E314.0	14797-73-0	Perchlorate		U	0.013	0.014	mg/kg	UJ	m	MS/MSD %R	76,-	80-120 %
4402037721	ES-14-20.0-20180217	2/17/2018	E314.0	14797-73-0	Perchlorate		U	0.0098	0.010	mg/kg	UJ	m	MS/MSD %R	76,-	80-120 %
4402037721	ES-14-30.0-20180217	2/17/2018	E314.0	14797-73-0	Perchlorate	0.79		0.010	0.010	mg/kg	J-	m	MS/MSD %R	76,-	80-120 %
4402037721	ES-14-40.0-20180217	2/17/2018	E314.0	14797-73-0	Perchlorate	0.41	F1	0.0099	0.010	mg/kg	J-	m	MS/MSD %R	76,-	80-120 %
4402037721	ES-14-50.0-20180217	2/17/2018	E314.0	14797-73-0	Perchlorate	3.2		0.13	0.14	mg/kg	J-	m	MS/MSD %R	76,-	80-120 %
4402037721	ES-14-60.0-20180217	2/17/2018	E314.0	14797-73-0	Perchlorate	2.8		0.13	0.14	mg/kg	J-	m	MS/MSD %R	76,-	80-120 %
4402037721	ES-14-70.0-20180217	2/17/2018	E314.0	14797-73-0	Perchlorate	2.1		0.13	0.13	mg/kg	J-	m	MS/MSD %R	76,-	80-120 %
4402037721	ES-14-80.0-20180217	2/17/2018	E314.0	14797-73-0	Perchlorate	0.90		0.013	0.013	mg/kg	J-	m	MS/MSD %R	76,-	80-120 %
4402037721	ES-14-90.0-20180217	2/17/2018	E314.0	14797-73-0	Perchlorate		U	0.014	0.015	mg/kg	UJ	m	MS/MSD %R	76,-	80-120 %
4402037721	ESB-14-10.0-20180217	2/17/2018	E314.0	14797-73-0	Perchlorate	3.1		0.20	0.21	mg/kg	J-	m	MS/MSD %R	76,-	80-120 %
4402037721	ESB-14-20.0-20180217	2/17/2018	E314.0	14797-73-0	Perchlorate	1.9		0.14	0.14	mg/kg	J-	m	MS/MSD %R	76,-	80-120 %
4402039431	ES-9-10.0-20180220	2/20/2018	E314.0	14797-73-0	Perchlorate	0.84		0.050	0.053	mg/kg	J+	m	MS/MSD %R	-,133	80-120 %
4402039431	ES-9-100.0-20180220	2/20/2018	E314.0	14797-73-0	Perchlorate		U	0.013	0.014	mg/kg	UJ	m	MS/MSD %R	-,64	80-120 %
4402039431	ES-9-110.0-20180220	2/20/2018	E314.0	14797-73-0	Perchlorate	0.017		0.013	0.014	mg/kg	J-	m	MS/MSD %R	-,64	80-120 %
4402039431	ES-9-120.0-20180220	2/20/2018	E314.0	14797-73-0	Perchlorate		U	0.014	0.015	mg/kg	UJ	m	MS/MSD %R	-,64	80-120 %
4402039431	ES-9-20.0-20180220	2/20/2018	E314.0	14797-73-0	Perchlorate	1.1		0.10	0.11	mg/kg	J+	m	MS/MSD %R	-,133	80-120 %
4402039431	ES-9-20.0-20180220-FD	2/20/2018	E314.0	14797-73-0	Perchlorate	1.3		0.10	0.11	mg/kg	J+	m	MS/MSD %R	-,133	80-120 %
4402039431	ES-9-30.0-20180220	2/20/2018	E314.0	14797-73-0	Perchlorate	0.60		0.051	0.053	mg/kg	J+	m	MS/MSD %R	-,133	80-120 %
4402039431	ES-9-40.0-20180220	2/20/2018	E314.0	14797-73-0	Perchlorate	0.37	F1	0.051	0.054	mg/kg	J+	m	MS/MSD %R	-,133	80-120 %
4402039431	ES-9-50.0-20180220	2/20/2018	E314.0	14797-73-0	Perchlorate	2.7		0.78	0.83	mg/kg	J+	m	MS/MSD %R	-,133	80-120 %
4402039431	ES-9-60.0-20180220	2/20/2018	E314.0	14797-73-0	Perchlorate	1.9		0.12	0.13	mg/kg	J-	m	MS/MSD %R	-,64	80-120 %
4402039431	ES-9-70.0-20180220	2/20/2018	E314.0	14797-73-0	Perchlorate		U	0.014	0.015	mg/kg	UJ	m	MS/MSD %R	-,64	80-120 %
4402039431	ES-9-80.0-20180220	2/20/2018	E314.0	14797-73-0	Perchlorate		U	0.013	0.014	mg/kg	UJ	m	MS/MSD %R	-,64	80-120 %
4402039431	ES-9-80.0-20180220-FD	2/20/2018	E314.0	14797-73-0	Perchlorate		U	0.013	0.014	mg/kg	UJ	m	MS/MSD %R	-,64	80-120 %
4402039431	ES-9-90.0-20180220	2/20/2018	E314.0	14797-73-0	Perchlorate		U	0.014	0.015	mg/kg	UJ	m	MS/MSD %R	-,64	80-120 %
4402039431	ESB-16-10.0-20180220	2/20/2018	E314.0	14797-73-0	Perchlorate	13		2.1	2.2	mg/kg	J-	m	MS/MSD %R	-,64	80-120 %
4402039431	ESB-16-100.0-20180221	2/21/2018	E314.0	14797-73-0	Perchlorate		U	0.014	0.015	mg/kg	UJ	m	MS/MSD %R	-,64	80-120 %
4402039431	ESB-16-20.0-20180220	2/20/2018	E314.0	14797-73-0	Perchlorate	0.43		0.12	0.13	mg/kg	J-	m	MS/MSD %R	-,64	80-120 %
4402039431	ESB-16-20.0-20180220-FD	2/20/2018	E314.0	14797-73-0	Perchlorate	0.34		0.062	0.065	mg/kg	J-	m	MS/MSD %R	-,64	80-120 %

Table V. Overall Qualified Results

SDG	Client Sample ID	Sample Date	Method	Client Analyte ID	Analyte	Lab Result	Lab Qualifier	SQL	PQL	Units	Validator Qualifier	Reason Code	Data Quality Indicator	Qualification Finding	Acceptance Criteria
4402039431	ESB-16-30.0-20180220	2/20/2018	E314.0	14797-73-0	Perchlorate	0.13		0.013	0.013	mg/kg	J-	m	MS/MSD %R	-,64	80-120 %
4402039431	ESB-16-40.0-20180221	2/21/2018	E314.0	14797-73-0	Perchlorate	0.53	F1	0.013	0.014	mg/kg	J-	m	MS/MSD %R	-,64	80-120 %
4402039431	ESB-16-50.0-20180221	2/21/2018	E314.0	14797-73-0	Perchlorate	0.58		0.072	0.076	mg/kg	J-	m	MS/MSD %R	-,64	80-120 %
4402039431	ESB-16-60.0-20180221	2/21/2018	E314.0	14797-73-0	Perchlorate	0.62		0.13	0.14	mg/kg	J-	m	MS/MSD %R	-,64	80-120 %
4402039431	ESB-16-70.0-20180221	2/21/2018	E314.0	14797-73-0	Perchlorate		U	0.013	0.014	mg/kg	UJ	m	MS/MSD %R	-,64	80-120 %
4402039431	ESB-16-80.0-20180221	2/21/2018	E314.0	14797-73-0	Perchlorate		U	0.013	0.013	mg/kg	UJ	m	MS/MSD %R	-,64	80-120 %
4402039431	ESB-16-90.0-20180221	2/21/2018	E314.0	14797-73-0	Perchlorate		U	0.013	0.013	mg/kg	UJ	m	MS/MSD %R	-,64	80-120 %
4402039431	ESB-16-90.0-20180221-FD	2/21/2018	E314.0	14797-73-0	Perchlorate		U	0.013	0.014	mg/kg	UJ	m	MS/MSD %R	-,64	80-120 %
4402045331	ESB-18-20.0-20180227	2/27/2018	E314.0	14797-73-0	Perchlorate	0.29		0.0098	0.010	mg/kg	J+	m	MS/MSD %R	-,139	80-120 %
4402045331	ESB-18-20.0-20180227-FD	2/27/2018	E314.0	14797-73-0	Perchlorate	0.26		0.0099	0.010	mg/kg	J+	m	MS/MSD %R	-,139	80-120 %
4402045331	ESB-18-30.0-20180227	2/27/2018	E314.0	14797-73-0	Perchlorate	0.93		0.0099	0.010	mg/kg	J+	m	MS/MSD %R	-,139	80-120 %
4402045331	ESB-18-40.0-20180227	2/27/2018	E314.0	14797-73-0	Perchlorate	0.39	F1	0.0099	0.010	mg/kg	J+	m	MS/MSD %R	-,139	80-120 %
4402045331	ESB-18-50.0-20180227	2/27/2018	E314.0	14797-73-0	Perchlorate	0.40		0.013	0.013	mg/kg	J+	m	MS/MSD %R	-,139	80-120 %
4402045331	ESB-18-60.0-20180227	2/27/2018	E314.0	14797-73-0	Perchlorate	0.51		0.012	0.013	mg/kg	J+	m	MS/MSD %R	-,139	80-120 %
4402045331	ESB-18-70.0-20180227	2/27/2018	E314.0	14797-73-0	Perchlorate	0.052		0.013	0.013	mg/kg	J+	m	MS/MSD %R	-,139	80-120 %
4402045371	ESB-17-10.0-20180227	2/27/2018	E314.0	14797-73-0	Perchlorate	3.0		0.49	0.52	mg/kg	J-	m	MS/MSD %R	77,72	80-120 %
4402045371	ESB-17-100.0-20180227	2/27/2018	E314.0	14797-73-0	Perchlorate		U	0.012	0.012	mg/kg	UJ	m	MS/MSD %R	77,72	80-120 %
4402045371	ESB-17-110.0-20180227	2/27/2018	E314.0	14797-73-0	Perchlorate		U	0.011	0.012	mg/kg	UJ	m	MS/MSD %R	77,72	80-120 %
4402045371	ESB-17-120.0-20180227	2/27/2018	E314.0	14797-73-0	Perchlorate		U	0.011	0.011	mg/kg	UJ	m	MS/MSD %R	77,72	80-120 %
4402045371	ESB-17-130.0-20180227	2/27/2018	E314.0	14797-73-0	Perchlorate		U	0.014	0.015	mg/kg	UJ	m	MS/MSD %R	77,72	80-120 %
4402045371	ESB-17-140.0-20180227	2/27/2018	E314.0	14797-73-0	Perchlorate		U	0.013	0.014	mg/kg	UJ	m	MS/MSD %R	41,35	80-120 %
4402045371	ESB-17-150.0-20180227	2/27/2018	E314.0	14797-73-0	Perchlorate		UF1	0.014	0.015	mg/kg	UJ	m	MS/MSD %R	41,35	80-120 %
4402045371	ESB-17-20.0-20180227	2/27/2018	E314.0	14797-73-0	Perchlorate	1.1		0.12	0.13	mg/kg	J-	m	MS/MSD %R	77,72	80-120 %
4402045371	ESB-17-30.0-20180227	2/27/2018	E314.0	14797-73-0	Perchlorate	0.14		0.014	0.015	mg/kg	J-	m	MS/MSD %R	77,72	80-120 %
4402045371	ESB-17-40.0-20180227	2/27/2018	E314.0	14797-73-0	Perchlorate	0.46	F1	0.065	0.068	mg/kg	J-	m	MS/MSD %R	77,72	80-120 %
4402045371	ESB-17-50.0-20180227	2/27/2018	E314.0	14797-73-0	Perchlorate	0.45		0.11	0.12	mg/kg	J-	m	MS/MSD %R	77,72	80-120 %
4402045371	ESB-17-60.0-20180227	2/27/2018	E314.0	14797-73-0	Perchlorate	2.7		0.25	0.27	mg/kg	J-	m	MS/MSD %R	77,72	80-120 %
4402045371	ESB-17-70.0-20180227	2/27/2018	E314.0	14797-73-0	Perchlorate		U	0.011	0.012	mg/kg	UJ	m	MS/MSD %R	77,72	80-120 %
4402045371	ESB-17-80.0-20180227	2/27/2018	E314.0	14797-73-0	Perchlorate		U	0.013	0.014	mg/kg	UJ	m	MS/MSD %R	77,72	80-120 %
4402045371	ESB-17-90.0-20180227	2/27/2018	E314.0	14797-73-0	Perchlorate		U	0.012	0.012	mg/kg	UJ	m	MS/MSD %R	77,72	80-120 %
4402045921	ES-16-10.0-20180228	2/28/2018	E314.0	14797-73-0	Perchlorate		U	0.010	0.011	mg/kg	UJ	m	MS/MSD %R	59,64	80-120 %
4402045921	ES-16-100.0-20180228	2/28/2018	E314.0	14797-73-0	Perchlorate		U	0.014	0.014	mg/kg	UJ	m	MS/MSD %R	59,64	80-120 %
4402045921	ES-16-110.0-20180228	2/28/2018	E314.0	14797-73-0	Perchlorate		U	0.012	0.013	mg/kg	UJ	m	MS/MSD %R	34,38	80-120 %
4402045921	ES-16-120.0-20180301	3/1/2018	E314.0	14797-73-0	Perchlorate		U	0.013	0.014	mg/kg	UJ	m	MS/MSD %R	34,38	80-120 %
4402045921	ES-16-20.0-20180228	2/28/2018	E314.0	14797-73-0	Perchlorate		U	0.011	0.011	mg/kg	UJ	m	MS/MSD %R	59,64	80-120 %
4402045921	ES-16-20.0-20180228-FD	2/28/2018	E314.0	14797-73-0	Perchlorate		U	0.011	0.011	mg/kg	UJ	m	MS/MSD %R	59,64	80-120 %
4402045921	ES-16-30.0-20180228	2/28/2018	E314.0	14797-73-0	Perchlorate		U	0.012	0.013	mg/kg	UJ	m	MS/MSD %R	59,64	80-120 %
4402045921	ES-16-40.0-20180228	2/28/2018	E314.0	14797-73-0	Perchlorate	2.5		0.13	0.14	mg/kg	J-	m	MS/MSD %R	59,64	80-120 %
4402045921	ES-16-50.0-20180228	2/28/2018	E314.0	14797-73-0	Perchlorate	3.6		0.12	0.13	mg/kg	J-	m	MS/MSD %R	59,64	80-120 %
4402045921	ES-16-60.0-20180228	2/28/2018	E314.0	14797-73-0	Perchlorate	3.6		0.13	0.13	mg/kg	J-	m	MS/MSD %R	59,64	80-120 %
4402045921	ES-16-70.0-20180228	2/28/2018	E314.0	14797-73-0	Perchlorate	0.041		0.012	0.013	mg/kg	J-	m	MS/MSD %R	59,64	80-120 %
4402045921	ES-16-80.0-20180228	2/28/2018	E314.0	14797-73-0	Perchlorate		U	0.013	0.013	mg/kg	UJ	m	MS/MSD %R	59,64	80-120 %
4402045921	ES-16-80.0-20180228-FD	2/28/2018	E314.0	14797-73-0	Perchlorate		U	0.013	0.014	mg/kg	UJ	m	MS/MSD %R	59,64	80-120 %
4402045921	ES-16-90.0-20180228	2/28/2018	E314.0	14797-73-0	Perchlorate		U	0.013	0.014	mg/kg	UJ	m	MS/MSD %R	59,64	80-120 %
4402045921	ES-19-10.0-20180228	2/28/2018	E314.0	14797-73-0	Perchlorate		U	0.010	0.011	mg/kg	UJ	m	MS/MSD %R	59,64	80-120 %
4402045921	ES-19-100.0-20180228	2/28/2018	E314.0	14797-73-0	Perchlorate		U	0.012	0.013	mg/kg	UJ	m	MS/MSD %R	34,38	80-120 %
4402045921	ES-19-110.0-20180228	2/28/2018	E314.0	14797-73-0	Perchlorate		UF1	0.012	0.013	mg/kg	UJ	m	MS/MSD %R	34,38	80-120 %
4402045921	ES-19-120.0-20180301	3/1/2018	E314.0	14797-73-0	Perchlorate		U	0.012	0.012	mg/kg	UJ	m	MS/MSD %R	34,38	80-120 %
4402045921	ES-19-130.0-20180301	3/1/2018	E314.0	14797-73-0	Perchlorate		U	0.013	0.014	mg/kg	UJ	m	MS/MSD %R	34,38	80-120 %
4402045921	ES-19-140.0-20180301	3/1/2018	E314.0	14797-73-0	Perchlorate	0.017		0.013	0.013	mg/kg	J-	m	MS/MSD %R	34,38	80-120 %
4402045921	ES-19-150.0-20180301	3/1/2018	E314.0	14797-73-0	Perchlorate		U	0.012	0.013	mg/kg	UJ	m	MS/MSD %R	34,38	80-120 %

Table V. Overall Qualified Results

SDG	Client Sample ID	Sample Date	Method	Client Analyte ID	Analyte	Lab Result	Lab Qualifier	SQL	PQL	Units	Validator Qualifier	Reason Code	Data Quality Indicator	Qualification Finding	Acceptance Criteria	
4402045921	ES-19-160.0-20180301	3/1/2018	E314.0	14797-73-0	Perchlorate	3.2		0.17	0.18	mg/kg	J-	m	MS/MSD %R	34,38	80-120	%
4402045921	ES-19-170.0-20180301	3/1/2018	E314.0	14797-73-0	Perchlorate	1.5		0.080	0.084	mg/kg	J-	m	MS/MSD %R	34,38	80-120	%
4402045921	ES-19-180.0-20180301	3/1/2018	E314.0	14797-73-0	Perchlorate	0.028		0.014	0.014	mg/kg	J-	m	MS/MSD %R	34,38	80-120	%
4402045921	ES-19-190.0-20180301	3/1/2018	E314.0	14797-73-0	Perchlorate		U	0.014	0.015	mg/kg	UJ	m	MS/MSD %R	34,38	80-120	%
4402045921	ES-19-20.0-20180228	2/28/2018	E314.0	14797-73-0	Perchlorate		U	0.010	0.011	mg/kg	UJ	m	MS/MSD %R	59,64	80-120	%
4402045921	ES-19-200.0-20180301	3/1/2018	E314.0	14797-73-0	Perchlorate		U	0.012	0.013	mg/kg	UJ	m	MS/MSD %R	34,38	80-120	%
4402045921	ES-19-30.0-20180228	2/28/2018	E314.0	14797-73-0	Perchlorate		U	0.013	0.014	mg/kg	UJ	m	MS/MSD %R	59,64	80-120	%
4402045921	ES-19-40.0-20180228	2/28/2018	E314.0	14797-73-0	Perchlorate		UF1	0.013	0.014	mg/kg	UJ	m	MS/MSD %R	59,64	80-120	%
4402045921	ES-19-50.0-20180228	2/28/2018	E314.0	14797-73-0	Perchlorate	0.031		0.014	0.015	mg/kg	J-	m	MS/MSD %R	59,64	80-120	%
4402045921	ES-19-60.0-20180228	2/28/2018	E314.0	14797-73-0	Perchlorate	0.83		0.026	0.027	mg/kg	J-	m	MS/MSD %R	59,64	80-120	%
4402045921	ES-19-70.0-20180228	2/28/2018	E314.0	14797-73-0	Perchlorate	0.54		0.025	0.027	mg/kg	J-	m	MS/MSD %R	59,64	80-120	%
4402045921	ES-19-80.0-20180228	2/28/2018	E314.0	14797-73-0	Perchlorate		U	0.012	0.012	mg/kg	UJ	m	MS/MSD %R	59,64	80-120	%
4402045921	ES-19-90.0-20180228	2/28/2018	E314.0	14797-73-0	Perchlorate		U	0.012	0.013	mg/kg	UJ	m	MS/MSD %R	34,38	80-120	%
4402047301	ES-18-10.0-20180302	3/2/2018	E314.0	14797-73-0	Perchlorate	0.011		0.010	0.011	mg/kg	J	m,ld	MS/MSD %R, RPD	1129,-; 123	80-120; 20	%
4402047301	ES-18-100.0-20180302	3/2/2018	E314.0	14797-73-0	Perchlorate		U	0.012	0.013	mg/kg	UJ	ld	MS/MSD RPD	123	20	%
4402047301	ES-18-110.0-20180302	3/2/2018	E314.0	14797-73-0	Perchlorate		U	0.012	0.013	mg/kg	UJ	ld	MS/MSD RPD	123	20	%
4402047301	ES-18-120.0-20180302	3/2/2018	E314.0	14797-73-0	Perchlorate		U	0.015	0.016	mg/kg	UJ	ld	MS/MSD RPD	123	20	%
4402047301	ES-18-20.0-20180302	3/2/2018	E314.0	14797-73-0	Perchlorate	0.023		0.010	0.011	mg/kg	J	m,ld,fd	MS/MSD %R, RPD; FD RPD	1129,-; 123; 56	80-120; 20; 50	%
4402047301	ES-18-20.0-20180302-FD	3/2/2018	E314.0	14797-73-0	Perchlorate	0.013		0.010	0.011	mg/kg	J	m,ld,fd	MS/MSD %R, RPD; FD RPD	1129,-; 123; 56	80-120; 20; 50	%
4402047301	ES-18-30.0-20180302	3/2/2018	E314.0	14797-73-0	Perchlorate		U	0.011	0.012	mg/kg	UJ	ld	MS/MSD RPD	123	20	%
4402047301	ES-18-40.0-20180302	3/2/2018	E314.0	14797-73-0	Perchlorate	0.86	F1F2	0.096	0.10	mg/kg	J	m,ld	MS/MSD %R, RPD	1129,-; 123	80-120; 20	%
4402047301	ES-18-50.0-20180302	3/2/2018	E314.0	14797-73-0	Perchlorate	0.67		0.013	0.014	mg/kg	J	m,ld	MS/MSD %R, RPD	1129,-; 123	80-120; 20	%
4402047301	ES-18-60.0-20180302	3/2/2018	E314.0	14797-73-0	Perchlorate	0.90		0.066	0.069	mg/kg	J	m,ld	MS/MSD %R, RPD	1129,-; 123	80-120; 20	%
4402047301	ES-18-70.0-20180302	3/2/2018	E314.0	14797-73-0	Perchlorate		U	0.014	0.014	mg/kg	UJ	ld	MS/MSD RPD	123	20	%
4402047301	ES-18-80.0-20180302	3/2/2018	E314.0	14797-73-0	Perchlorate		U	0.013	0.013	mg/kg	UJ	ld	MS/MSD RPD	123	20	%
4402047301	ES-18-80.0-20180302-FD	3/2/2018	E314.0	14797-73-0	Perchlorate		U	0.012	0.013	mg/kg	UJ	ld	MS/MSD RPD	123	20	%
4402047301	ES-18-90.0-20180302	3/2/2018	E314.0	14797-73-0	Perchlorate		U	0.013	0.014	mg/kg	UJ	ld	MS/MSD RPD	123	20	%
4402051171	ES-25B-10.0-20180306	3/6/2018	E314.0	14797-73-0	Perchlorate	0.92		0.060	0.063	mg/kg	J-	m	MS/MSD %R	63,71	80-120	%
4402051171	ES-25B-100.0-20180306	3/6/2018	E314.0	14797-73-0	Perchlorate		U	0.011	0.012	mg/kg	UJ	m	MS/MSD %R	63,71	80-120	%
4402051171	ES-25B-110.0-20180306	3/6/2018	E314.0	14797-73-0	Perchlorate		U	0.012	0.012	mg/kg	UJ	m	MS/MSD %R	63,71	80-120	%
4402051171	ES-25B-120.0-20180306	3/6/2018	E314.0	14797-73-0	Perchlorate		U	0.012	0.013	mg/kg	UJ	m	MS/MSD %R	63,71	80-120	%
4402051171	ES-25B-20.0-20180306	3/6/2018	E314.0	14797-73-0	Perchlorate	0.66		0.012	0.013	mg/kg	J-	m	MS/MSD %R	63,71	80-120	%
4402051171	ES-25B-20.0-20180306-FD	3/6/2018	E314.0	14797-73-0	Perchlorate	1.0		0.013	0.013	mg/kg	J-	m	MS/MSD %R	63,71	80-120	%
4402051171	ES-25B-30.0-20180306	3/6/2018	E314.0	14797-73-0	Perchlorate	0.048		0.012	0.013	mg/kg	J-	m	MS/MSD %R	63,71	80-120	%
4402051171	ES-25B-40.0-20180306	3/6/2018	E314.0	14797-73-0	Perchlorate		UF1	0.012	0.013	mg/kg	UJ	m	MS/MSD %R	63,71	80-120	%
4402051171	ES-25B-50.0-20180306	3/6/2018	E314.0	14797-73-0	Perchlorate		U	0.012	0.013	mg/kg	UJ	m	MS/MSD %R	63,71	80-120	%
4402051171	ES-25B-60.0-20180306	3/6/2018	E314.0	14797-73-0	Perchlorate		U	0.013	0.014	mg/kg	UJ	m	MS/MSD %R	63,71	80-120	%
4402051171	ES-25B-70.0-20180306	3/6/2018	E314.0	14797-73-0	Perchlorate		U	0.013	0.013	mg/kg	UJ	m	MS/MSD %R	63,71	80-120	%
4402051171	ES-25B-80.0-20180306	3/6/2018	E314.0	14797-73-0	Perchlorate		U	0.012	0.013	mg/kg	UJ	m	MS/MSD %R	63,71	80-120	%
4402051171	ES-25B-80.0-20180306-FD	3/6/2018	E314.0	14797-73-0	Perchlorate		U	0.012	0.013	mg/kg	UJ	m	MS/MSD %R	63,71	80-120	%
4402051171	ES-25B-90.0-20180306	3/6/2018	E314.0	14797-73-0	Perchlorate		U	0.012	0.013	mg/kg	UJ	m	MS/MSD %R	63,71	80-120	%
4402051171	ES-26-10.0-20180306	3/6/2018	E314.0	14797-73-0	Perchlorate		U	0.010	0.010	mg/kg	UJ	m	MS/MSD %R	63,71	80-120	%
4402051171	ES-26-110.0-20180306	3/6/2018	E314.0	14797-73-0	Perchlorate		U	0.012	0.012	mg/kg	UJ	m	MS/MSD %R	63,71	80-120	%
4402051171	ES-26-120.0-20180306	3/6/2018	E314.0	14797-73-0	Perchlorate		U	0.012	0.013	mg/kg	UJ	m	MS/MSD %R	63,71	80-120	%
4402051171	ES-26-20.0-20180306	3/6/2018	E314.0	14797-73-0	Perchlorate	0.75		0.012	0.013	mg/kg	J-	m	MS/MSD %R	63,71	80-120	%
4402051171	ES-26-20.0-20180306-FD	3/6/2018	E314.0	14797-73-0	Perchlorate	0.72		0.012	0.013	mg/kg	J-	m	MS/MSD %R	63,71	80-120	%
4402051171	ES-26-30.0-20180306	3/6/2018	E314.0	14797-73-0	Perchlorate	1.1		0.065	0.068	mg/kg	J-	m	MS/MSD %R	63,71	80-120	%
4402053381	ES-27-10.0-20180307	3/7/2018	E314.0	14797-73-0	Perchlorate		U	0.011	0.012	mg/kg	UJ	m	MS/MSD %R	68,70	80-120	%
4402053381	ES-27-100.0-20180307	3/7/2018	E314.0	14797-73-0	Perchlorate		U	0.013	0.014	mg/kg	UJ	m	MS/MSD %R	68,70	80-120	%
4402053381	ES-27-110.0-20180307	3/7/2018	E314.0	14797-73-0	Perchlorate		U	0.014	0.015	mg/kg	UJ	m	MS/MSD %R	68,70	80-120	%
4402053381	ES-27-120.0-20180307	3/7/2018	E314.0	14797-73-0	Perchlorate		U	0.014	0.014	mg/kg	UJ	m	MS/MSD %R	68,70	80-120	%

Table V. Overall Qualified Results

SDG	Client Sample ID	Sample Date	Method	Client Analyte ID	Analyte	Lab Result	Lab Qualifier	SQL	PQL	Units	Validator Qualifier	Reason Code	Data Quality Indicator	Qualification Finding	Acceptance Criteria	
4402053381	ES-27-20.0-20180307	3/7/2018	E314.0	14797-73-0	Perchlorate		U	0.011	0.012	mg/kg	UJ	m	MS/MSD %R	68,70	80-120	%
4402053381	ES-27-20.0-20180307-FD	3/7/2018	E314.0	14797-73-0	Perchlorate		U	0.011	0.012	mg/kg	UJ	m	MS/MSD %R	68,70	80-120	%
4402053381	ES-27-30.0-20180307	3/7/2018	E314.0	14797-73-0	Perchlorate		U	0.011	0.012	mg/kg	UJ	m	MS/MSD %R	68,70	80-120	%
4402053381	ES-27-40.0-20180307	3/7/2018	E314.0	14797-73-0	Perchlorate		UF1	0.010	0.011	mg/kg	UJ	m	MS/MSD %R	68,70	80-120	%
4402053381	ES-27-50.0-20180307	3/7/2018	E314.0	14797-73-0	Perchlorate		U	0.014	0.014	mg/kg	UJ	m	MS/MSD %R	68,70	80-120	%
4402053381	ES-27-60.0-20180307	3/7/2018	E314.0	14797-73-0	Perchlorate		U	0.012	0.013	mg/kg	UJ	m	MS/MSD %R	68,70	80-120	%
4402053381	ES-27-70.0-20180307	3/7/2018	E314.0	14797-73-0	Perchlorate		U	0.015	0.016	mg/kg	UJ	m	MS/MSD %R	68,70	80-120	%
4402053381	ES-27-80.0-20180307	3/7/2018	E314.0	14797-73-0	Perchlorate		U	0.015	0.016	mg/kg	UJ	m	MS/MSD %R	68,70	80-120	%
4402053381	ES-27-80.0-20180307-FD	3/7/2018	E314.0	14797-73-0	Perchlorate		U	0.014	0.015	mg/kg	UJ	m	MS/MSD %R	68,70	80-120	%
4402053381	ES-27-90.0-20180307	3/7/2018	E314.0	14797-73-0	Perchlorate		U	0.013	0.013	mg/kg	UJ	m	MS/MSD %R	68,70	80-120	%
4402063471	ESB-10-10.0-20180316	3/16/2018	E314.0	14797-73-0	Perchlorate	0.60		0.0098	0.010	mg/kg	J-	m	MS/MSD %R	-,78	80-120	%
4402063471	ESB-10-100.0-20180316	3/16/2018	E314.0	14797-73-0	Perchlorate	0.042		0.013	0.014	mg/kg	J-	m	MS/MSD %R	-,78	80-120	%
4402063471	ESB-10-110.0-20180316	3/16/2018	E314.0	14797-73-0	Perchlorate	0.15		0.013	0.014	mg/kg	J-	m	MS/MSD %R	-,78	80-120	%
4402063471	ESB-10-120.0-20180316	3/16/2018	E314.0	14797-73-0	Perchlorate		U	0.013	0.014	mg/kg	UJ	m	MS/MSD %R	-,78	80-120	%
4402063471	ESB-10-130.0-20180316	3/16/2018	E314.0	14797-73-0	Perchlorate		U	0.013	0.013	mg/kg	UJ	m	MS/MSD %R	-,78	80-120	%
4402063471	ESB-10-140.0-20180317	3/16/2018	E314.0	14797-73-0	Perchlorate		U	0.013	0.014	mg/kg	UJ	m	MS/MSD %R	-,78	80-120	%
4402063471	ESB-10-150.0-20180317	3/16/2018	E314.0	14797-73-0	Perchlorate		U	0.013	0.013	mg/kg	UJ	m	MS/MSD %R	-,78	80-120	%
4402063471	ESB-10-20.0-20180316	3/16/2018	E314.0	14797-73-0	Perchlorate	0.28		0.0097	0.010	mg/kg	J-	m	MS/MSD %R	-,78	80-120	%
4402063471	ESB-10-20.0-20180316-FD	3/16/2018	E314.0	14797-73-0	Perchlorate	0.27		0.0097	0.010	mg/kg	J-	m	MS/MSD %R	-,78	80-120	%
4402063471	ESB-10-30.0-20180316	3/16/2018	E314.0	14797-73-0	Perchlorate	0.28		0.010	0.010	mg/kg	J-	m	MS/MSD %R	-,78	80-120	%
4402063471	ESB-10-40.0-20180316	3/16/2018	E314.0	14797-73-0	Perchlorate	0.38	F1	0.0099	0.010	mg/kg	J-	m	MS/MSD %R	-,78	80-120	%
4402063471	ESB-10-50.0-20180316	3/16/2018	E314.0	14797-73-0	Perchlorate	0.30		0.0098	0.010	mg/kg	J-	m	MS/MSD %R	-,78	80-120	%
4402063471	ESB-10-60.0-20180316	3/16/2018	E314.0	14797-73-0	Perchlorate		U	0.0099	0.010	mg/kg	UJ	m	MS/MSD %R	-,78	80-120	%
4402063471	ESB-10-70.0-20180316	3/16/2018	E314.0	14797-73-0	Perchlorate	0.083		0.014	0.015	mg/kg	J-	m	MS/MSD %R	-,78	80-120	%
4402063471	ESB-10-80.0-20180316	3/16/2018	E314.0	14797-73-0	Perchlorate	1.2		0.064	0.067	mg/kg	J-	m	MS/MSD %R	-,78	80-120	%
4402063471	ESB-10-80.0-20180316-FD	3/16/2018	E314.0	14797-73-0	Perchlorate	1.0		0.063	0.066	mg/kg	J-	m	MS/MSD %R	-,78	80-120	%
4402063471	ESB-10-90.0-20180316	3/16/2018	E314.0	14797-73-0	Perchlorate	0.78		0.016	0.016	mg/kg	J-	m	MS/MSD %R	-,78	80-120	%
4402063471	ESB-12-10.0-20180318	3/18/2018	E314.0	14797-73-0	Perchlorate	0.23		0.010	0.011	mg/kg	J-	m	MS/MSD %R	-,78	80-120	%
4402063471	ESB-12-20.0-20180318	3/18/2018	E314.0	14797-73-0	Perchlorate	0.74		0.010	0.010	mg/kg	J-	m	MS/MSD %R	-,78	80-120	%
4402063471	ESB-12-20.0-20180318-FD	3/18/2018	E314.0	14797-73-0	Perchlorate	0.70		0.010	0.011	mg/kg	J-	m	MS/MSD %R	-,78	80-120	%
4402063471	ESB-12-100.0-20180318	3/18/2018	E314.0	14797-73-0	Perchlorate		U	0.012	0.013	mg/kg	R	m	MS/MSD %R	27,49	80-120	%
4402063471	ESB-12-110.0-20180318	3/18/2018	E314.0	14797-73-0	Perchlorate		U	0.013	0.014	mg/kg	R	m	MS/MSD %R	27,49	80-120	%
4402063471	ESB-12-120.0-20180318	3/18/2018	E314.0	14797-73-0	Perchlorate		U	0.012	0.013	mg/kg	R	m	MS/MSD %R	27,49	80-120	%
4402063471	ESB-12-130.0-20180318	3/18/2018	E314.0	14797-73-0	Perchlorate		U	0.012	0.013	mg/kg	R	m	MS/MSD %R	27,49	80-120	%
4402063471	ESB-12-140.0-20180318	3/18/2018	E314.0	14797-73-0	Perchlorate	0.43		0.12	0.12	mg/kg	J-	m	MS/MSD %R	27,49	80-120	%
4402063471	ESB-12-150.0-20180318	3/18/2018	E314.0	14797-73-0	Perchlorate		U	0.014	0.015	mg/kg	R	m	MS/MSD %R	27,49	80-120	%
4402063471	ESB-12-30.0-20180318	3/18/2018	E314.0	14797-73-0	Perchlorate	2.4		0.12	0.12	mg/kg	J-	m	MS/MSD %R	27,49	80-120	%
4402063471	ESB-12-40.0-20180318	3/18/2018	E314.0	14797-73-0	Perchlorate	0.26	F1	0.058	0.061	mg/kg	J-	m	MS/MSD %R	27,49	80-120	%
4402063471	ESB-12-50.0-20180318	3/18/2018	E314.0	14797-73-0	Perchlorate	1.0		0.11	0.12	mg/kg	J-	m	MS/MSD %R	27,49	80-120	%
4402063471	ESB-12-60.0-20180318	3/18/2018	E314.0	14797-73-0	Perchlorate		U	0.012	0.013	mg/kg	R	m	MS/MSD %R	27,49	80-120	%
4402063471	ESB-12-70.0-20180318	3/18/2018	E314.0	14797-73-0	Perchlorate		U	0.012	0.013	mg/kg	R	m	MS/MSD %R	27,49	80-120	%
4402063471	ESB-12-80.0-20180318	3/18/2018	E314.0	14797-73-0	Perchlorate		U	0.013	0.013	mg/kg	R	m	MS/MSD %R	27,49	80-120	%
4402063471	ESB-12-80.0-20180318-FD	3/18/2018	E314.0	14797-73-0	Perchlorate		U	0.013	0.014	mg/kg	R	m	MS/MSD %R	27,49	80-120	%
4402063471	ESB-12-90.0-20180318	3/18/2018	E314.0	14797-73-0	Perchlorate		UF1F2	0.012	0.013	mg/kg	UJ	m,ld	MS/MSD %R, RPD	41,55; 31	80-120; 20	%
4402064851	ES-17-110.0-20180319	3/19/2018	E314.0	14797-73-0	Perchlorate	0.014	J	0.014	0.015	mg/kg	J	sp	< PQL			
4402064851	ESB-11-10.0-20180319	3/19/2018	E314.0	14797-73-0	Perchlorate	0.65		0.050	0.053	mg/kg	J-	m	MS/MSD %R	-,77	80-120	%
4402064851	ESB-11-100.0-20180319	3/19/2018	E314.0	14797-73-0	Perchlorate		U	0.012	0.013	mg/kg	UJ	m	MS/MSD %R	-,77	80-120	%
4402064851	ESB-11-110.0-20180319	3/19/2018	E314.0	14797-73-0	Perchlorate		U	0.012	0.013	mg/kg	UJ	m	MS/MSD %R	-,77	80-120	%
4402064851	ESB-11-120.0-20180319	3/19/2018	E314.0	14797-73-0	Perchlorate	0.044		0.012	0.013	mg/kg	J-	m	MS/MSD %R	-,77	80-120	%
4402064851	ESB-11-130.0-20180319	3/19/2018	E314.0	14797-73-0	Perchlorate		U	0.013	0.014	mg/kg	UJ	m	MS/MSD %R	-,77	80-120	%
4402064851	ESB-11-20.0-20180319	3/19/2018	E314.0	14797-73-0	Perchlorate	0.63		0.050	0.053	mg/kg	J-	m	MS/MSD %R	-,77	80-120	%

Table V. Overall Qualified Results

SDG	Client Sample ID	Sample Date	Method	Client Analyte ID	Analyte	Lab Result	Lab Qualifier	SQL	PQL	Units	Validator Qualifier	Reason Code	Data Quality Indicator	Qualification Finding	Acceptance Criteria	
4402064851	ESB-11-20.0-20180319-FD	3/19/2018	E314.0	14797-73-0	Perchlorate	0.58		0.050	0.053	mg/kg	J-	m	MS/MSD %R	-,77	80-120	%
4402064851	ESB-11-30.0-20180319	3/19/2018	E314.0	14797-73-0	Perchlorate	0.43		0.050	0.053	mg/kg	J-	m	MS/MSD %R	-,77	80-120	%
4402064851	ESB-11-40.0-20180319	3/19/2018	E314.0	14797-73-0	Perchlorate	0.098	F1	0.010	0.011	mg/kg	J-	m	MS/MSD %R	-,77	80-120	%
4402064851	ESB-11-50.0-20180319	3/19/2018	E314.0	14797-73-0	Perchlorate	1.6		0.13	0.14	mg/kg	J-	m	MS/MSD %R	-,77	80-120	%
4402064851	ESB-11-60.0-20180319	3/19/2018	E314.0	14797-73-0	Perchlorate	3.0		0.13	0.14	mg/kg	J-	m	MS/MSD %R	-,77	80-120	%
4402064851	ESB-11-70.0-20180319	3/19/2018	E314.0	14797-73-0	Perchlorate	5.8		0.14	0.15	mg/kg	J-	m	MS/MSD %R	-,77	80-120	%
4402064851	ESB-11-80.0-20180319	3/19/2018	E314.0	14797-73-0	Perchlorate		U	0.012	0.013	mg/kg	UJ	m	MS/MSD %R	-,77	80-120	%
4402064851	ESB-11-80.0-20180319-FD	3/19/2018	E314.0	14797-73-0	Perchlorate		U	0.012	0.012	mg/kg	UJ	m	MS/MSD %R	-,77	80-120	%
4402064851	ESB-11-90.0-20180319	3/19/2018	E314.0	14797-73-0	Perchlorate	0.032		0.014	0.014	mg/kg	J-	m	MS/MSD %R	-,77	80-120	%
4402076941	DBMW-16-20180330	3/30/2018	E314.0	14797-73-0	Perchlorate	11		0.95	4.0	ug/l	J+	m	MS/MSD %R	-,125	80-120	%
4402076941	DBMW-18-20180330-FD	3/30/2018	E314.0	14797-73-0	Perchlorate	5.0	F1	0.95	4.0	ug/l	J+	m	MS/MSD %R	-,125	80-120	%
4402076941	MW-05-20180330	3/30/2018	E314.0	14797-73-0	Perchlorate	20		0.95	4.0	ug/l	J+	m	MS/MSD %R	-,125	80-120	%
4402076941	MW-10-20180330	3/30/2018	E314.0	14797-73-0	Perchlorate	13		0.95	4.0	ug/l	J+	m	MS/MSD %R	-,125	80-120	%
4402076941	MW-11-20180330	3/30/2018	E314.0	14797-73-0	Perchlorate	34		1.9	8.0	ug/l	J+	m	MS/MSD %R	-,125	80-120	%
4402076941	MW-18-20180330	3/30/2018	E314.0	14797-73-0	Perchlorate	4.0		0.95	4.0	ug/l	J+	m	MS/MSD %R	-,125	80-120	%
4402079621	AA-07-20180403	4/3/2018	E314.0	14797-73-0	Perchlorate	410	F1	9.5	40	ug/l	J-	m	MS/MSD %R	-,79	80-120	%
4402083881	ES-28-20180409	4/9/2018	E314.0	14797-73-0	Perchlorate	52		1.9	8.0	ug/l	J-	m	MS/MSD %R	72,67	80-120	%
4402083881	ES-30-20180409	4/9/2018	E314.0	14797-73-0	Perchlorate	4300		95	400	ug/l	J-	m	MS/MSD %R	72,67	80-120	%
4402083881	ES-31-20180409	4/9/2018	E314.0	14797-73-0	Perchlorate	6000		95	400	ug/l	J-	m	MS/MSD %R	72,67	80-120	%
4402083881	ES-31-20180409-FD	4/9/2018	E314.0	14797-73-0	Perchlorate	6300		95	400	ug/l	J-	m	MS/MSD %R	72,67	80-120	%
4402083881	ES-8B-20180409	4/9/2018	E314.0	14797-73-0	Perchlorate	3800		95	400	ug/l	J-	m	MS/MSD %R	72,67	80-120	%
4402083881	MCF-06C-20180409	4/9/2018	E314.0	14797-73-0	Perchlorate	5500	F1	95	400	ug/l	J-	m	MS/MSD %R	72,67	80-120	%
4402087831	HMW-18-20180412-EB	4/12/2018	E314.0	14797-73-0	Perchlorate	0.48	J	0.28	1.0	ug/l	J	sp	< PQL			
4402091771	ES-14B-20180417	4/17/2018	E314.0	14797-73-0	Perchlorate	16	J	9.5	40	ug/l	J+	m,sp	MS/MSD %R; < PQL	135,137	80-120	%
4402091771	ES-9-20180417	4/17/2018	E314.0	14797-73-0	Perchlorate	53	F1	9.5	40	ug/l	J+	m	MS/MSD %R	135,137	80-120	%
4402097061	MW-12-20180424	4/24/2018	E314.0	14797-73-0	Perchlorate	2000		95	400	ug/l	J+	m	MS/MSD %R	135,137	80-120	%
4402097061	MW-15-20180424	4/24/2018	E314.0	14797-73-0	Perchlorate	1.5	J	0.95	4.0	ug/l	J+	m,sp	MS/MSD %R; < PQL	135,137	80-120	%
4402097061	MW-23-20180424	4/24/2018	E314.0	14797-73-0	Perchlorate	210		9.5	40	ug/l	J+	m	MS/MSD %R	135,137	80-120	%
4402097061	MW-25-20180424	4/24/2018	E314.0	14797-73-0	Perchlorate	6.6		0.95	4.0	ug/l	J+	m	MS/MSD %R	135,137	80-120	%
4402099511	MW-19-20180426	4/26/2018	E314.0	14797-73-0	Perchlorate	31	F1	0.95	4.0	ug/l	J-	m	MS/MSD %R	53,57	80-120	%
4402121831	ES-17-20180524	5/24/2018	E314.0	14797-73-0	Perchlorate	30	J	9.5	40	ug/l	J	sp	< PQL			
4402137501	NERT4.51S1-10.0-20180613	6/13/2018	E314.0	14797-73-0	Perchlorate	13		1.1	1.1	mg/kg	J-	m	MS/MSD %R	44,45	80-120	%
4402137501	NERT4.51S1-20.0-20180613	6/13/2018	E314.0	14797-73-0	Perchlorate	3.7		0.098	0.10	mg/kg	J-	m	MS/MSD %R	44,45	80-120	%
4402137501	NERT4.51S1-30.0-20180613	6/13/2018	E314.0	14797-73-0	Perchlorate	0.10		0.010	0.011	mg/kg	J-	m	MS/MSD %R	44,45	80-120	%
4402137501	NERT4.51S1-40.0-20180613	6/13/2018	E314.0	14797-73-0	Perchlorate	0.099		0.010	0.011	mg/kg	J-	m	MS/MSD %R	44,45	80-120	%
4402137501	NERT4.51S1-40.0-20180613-FD	6/13/2018	E314.0	14797-73-0	Perchlorate	0.15		0.010	0.011	mg/kg	J-	m	MS/MSD %R	44,45	80-120	%
4402137501	NERT4.51S1-50.0-20180613	6/13/2018	E314.0	14797-73-0	Perchlorate	0.074		0.011	0.012	mg/kg	J-	m	MS/MSD %R	44,45	80-120	%
4402138851	NERT5.91S1-40.0-20180617	6/17/2018	E314.0	14797-73-0	Perchlorate	1.0	F1	0.025	0.026	mg/kg	J-	m	MS/MSD %R	-2,16	80-120	%
4402138851	NERT5.91S1-50.0-20180617	6/17/2018	E314.0	14797-73-0	Perchlorate	0.65		0.013	0.013	mg/kg	J-	m	MS/MSD %R	-2,16	80-120	%
4402138851	NERT5.91S1-60.0-20180617	6/17/2018	E314.0	14797-73-0	Perchlorate	0.65		0.014	0.014	mg/kg	J-	m	MS/MSD %R	-2,16	80-120	%
4402138851	NERT5.91S1-70.0-20180617	6/17/2018	E314.0	14797-73-0	Perchlorate		U	0.014	0.014	mg/kg	R	m	MS/MSD %R	-2,16	80-120	%
4402138851	NERT5.91S1-70.0-20180617-FD	6/17/2018	E314.0	14797-73-0	Perchlorate		U	0.014	0.015	mg/kg	R	m	MS/MSD %R	-2,16	80-120	%
4402138851	NERT5.91S1-80.0-20180617	6/17/2018	E314.0	14797-73-0	Perchlorate		U	0.014	0.015	mg/kg	R	m	MS/MSD %R	-2,16	80-120	%
4402138851	NERT5.91S1-90.0-20180617	6/17/2018	E314.0	14797-73-0	Perchlorate	0.057		0.016	0.017	mg/kg	J-	m	MS/MSD %R	-2,16	80-120	%
4402138891	NERT5.49S1-10.0-20180618	6/18/2018	E314.0	14797-73-0	Perchlorate	1.8		0.10	0.10	mg/kg	J-	m	MS/MSD %R	44,45	80-120	%
4402138891	NERT5.49S1-20.0-20180618	6/18/2018	E314.0	14797-73-0	Perchlorate		U^	0.010	0.011	mg/kg	UJ	m	MS/MSD %R	44,45	80-120	%
4402138891	NERT5.49S1-30.0-20180618	6/18/2018	E314.0	14797-73-0	Perchlorate		U^	0.010	0.011	mg/kg	UJ	m	MS/MSD %R	44,45	80-120	%
4402138891	NERT5.49S1-40.0-20180618	6/18/2018	E314.0	14797-73-0	Perchlorate		U^	0.011	0.011	mg/kg	UJ	m	MS/MSD %R	44,45	80-120	%
4402138891	NERT5.49S1-50.0-20180618	6/18/2018	E314.0	14797-73-0	Perchlorate	0.016		0.010	0.011	mg/kg	J-	m	MS/MSD %R	44,45	80-120	%
4402138891	NERT5.49S1-60.0-20180618	6/18/2018	E314.0	14797-73-0	Perchlorate	0.084		0.010	0.011	mg/kg	J-	m	MS/MSD %R	44,45	80-120	%
4402138891	NERT5.49S1-60.0-20180618-FD	6/18/2018	E314.0	14797-73-0	Perchlorate	0.096		0.010	0.011	mg/kg	J-	m	MS/MSD %R	44,45	80-120	%

Table V. Overall Qualified Results

SDG	Client Sample ID	Sample Date	Method	Client Analyte ID	Analyte	Lab Result	Lab Qualifier	SQL	PQL	Units	Validator Qualifier	Reason Code	Data Quality Indicator	Qualification Finding	Acceptance Criteria	
4402138891	NERT5.49S1-70.0-20180618	6/18/2018	E314.0	14797-73-0	Perchlorate	1.4	F1	0.029	0.030	mg/kg	J-	m	MS/MSD %R	44,45	80-120	%
4402138891	NERT5.49S1-80.0-20180618	6/18/2018	E314.0	14797-73-0	Perchlorate		U^	0.013	0.014	mg/kg	UJ	m	MS/MSD %R	44,45	80-120	%
4402138891	NERT5.49S1-90.0-20180618	6/18/2018	E314.0	14797-73-0	Perchlorate		U^	0.013	0.014	mg/kg	UJ	m	MS/MSD %R	44,45	80-120	%
4402141041	NERT4.21N1-10.0-20180619	6/19/2018	E314.0	14797-73-0	Perchlorate		UF1	0.010	0.011	mg/kg	UJ	m	MS/MSD %R	64,67	80-120	%
4402141041	NERT4.21N1-20.0-20180619	6/19/2018	E314.0	14797-73-0	Perchlorate	3.7		0.050	0.052	mg/kg	J-	m	MS/MSD %R	64,67	80-120	%
4402141041	NERT4.21N1-30.0-20180619	6/19/2018	E314.0	14797-73-0	Perchlorate	3.3		0.050	0.053	mg/kg	J-	m	MS/MSD %R	64,67	80-120	%
4402141041	NERT4.21N1-40.0-20180619	6/19/2018	E314.0	14797-73-0	Perchlorate	0.24		0.055	0.058	mg/kg	J-	m	MS/MSD %R	64,67	80-120	%
4402141041	NERT4.21N1-50.0-20180619	6/19/2018	E314.0	14797-73-0	Perchlorate	0.16		0.052	0.055	mg/kg	J-	m	MS/MSD %R	64,67	80-120	%
4402141041	NERT4.21N1-60.0-20180619	6/19/2018	E314.0	14797-73-0	Perchlorate	0.22		0.053	0.055	mg/kg	J-	m	MS/MSD %R	64,67	80-120	%
4402141041	NERT4.21N1-70.0-20180619	6/19/2018	E314.0	14797-73-0	Perchlorate	0.22		0.052	0.054	mg/kg	J-	m	MS/MSD %R	64,67	80-120	%
4402141041	NERT4.21N1-70.0-20180619-FD	6/19/2018	E314.0	14797-73-0	Perchlorate	0.20		0.052	0.055	mg/kg	J-	m	MS/MSD %R	64,67	80-120	%
4402141041	NERT4.21N1-80.0-20180619	6/19/2018	E314.0	14797-73-0	Perchlorate	0.76		0.054	0.057	mg/kg	J-	m	MS/MSD %R	64,67	80-120	%
4402141041	NERT4.21N1-90.0-20180619	6/19/2018	E314.0	14797-73-0	Perchlorate		U	0.011	0.011	mg/kg	UJ	m	MS/MSD %R	64,67	80-120	%
4402141041	NERT4.38N1-10.0-20180620	6/20/2018	E314.0	14797-73-0	Perchlorate		U	0.010	0.010	mg/kg	UJ	m	MS/MSD %R	64,67	80-120	%
4402141041	NERT4.38N1-20.0-20180620	6/20/2018	E314.0	14797-73-0	Perchlorate	0.51		0.050	0.053	mg/kg	J-	m	MS/MSD %R	64,67	80-120	%
4402141041	NERT4.38N1-30.0-20180620	6/20/2018	E314.0	14797-73-0	Perchlorate	0.19		0.052	0.054	mg/kg	J-	m	MS/MSD %R	64,67	80-120	%
4402141041	NERT4.38N1-40.0-20180620	6/20/2018	E314.0	14797-73-0	Perchlorate	0.24		0.056	0.059	mg/kg	J-	m	MS/MSD %R	64,67	80-120	%
4402142221	NERT4.38N1-50.0-20180621	6/21/2018	E314.0	14797-73-0	Perchlorate	0.028		0.011	0.012	mg/kg	J-	m	MS/MSD %R	64,67	80-120	%
4402142221	NERT4.38N1-60.0-20180621	6/21/2018	E314.0	14797-73-0	Perchlorate		U	0.011	0.012	mg/kg	UJ	m	MS/MSD %R	64,67	80-120	%
4402145101	NERT4.71S1-10.0-20180626	6/26/2018	E314.0	14797-73-0	Perchlorate	3.4		0.049	0.052	mg/kg	J-	m	MS/MSD %R	4,10	80-120	%
4402145101	NERT4.71S1-20.0-20180626	6/26/2018	E314.0	14797-73-0	Perchlorate	0.43		0.050	0.053	mg/kg	J-	m	MS/MSD %R	4,10	80-120	%
4402145101	NERT4.71S1-30.0-20180626	6/26/2018	E314.0	14797-73-0	Perchlorate	0.45		0.054	0.056	mg/kg	J-	m	MS/MSD %R	4,10	80-120	%
4402145101	NERT4.71S1-40.0-20180626	6/26/2018	E314.0	14797-73-0	Perchlorate	0.35		0.052	0.055	mg/kg	J-	m	MS/MSD %R	4,10	80-120	%
4402145101	NERT4.71S1-40.0-20180626-FD	6/26/2018	E314.0	14797-73-0	Perchlorate	0.40		0.051	0.054	mg/kg	J-	m	MS/MSD %R	4,10	80-120	%
4402145101	NERT4.71S1-50.0-20180626	6/26/2018	E314.0	14797-73-0	Perchlorate	0.54		0.053	0.056	mg/kg	J-	m	MS/MSD %R	4,10	80-120	%
4402145101	NERT4.71S1-60.0-20180626	6/26/2018	E314.0	14797-73-0	Perchlorate	0.21	F1	0.011	0.011	mg/kg	J-	m	MS/MSD %R	4,10	80-120	%
4402145101	NERT4.71S1-70.0-20180626	6/26/2018	E314.0	14797-73-0	Perchlorate	0.32		0.051	0.054	mg/kg	J-	m	MS/MSD %R	4,10	80-120	%
4402147051	NERT3.80S1-50.0-20180628	6/28/2018	E314.0	14797-73-0	Perchlorate		UF1	0.010	0.011	mg/kg	UJ	m	MS/MSD %R	77,-	80-120	%
4402170661	ES-24-10.0-20180730	7/30/2018	E314.0	14797-73-0	Perchlorate	3.3		0.064	0.067	mg/kg	J	m,ld	MS/MSD %R, RPD	56,-; 39	80-120; 20	%
4402170661	ES-24-100.0-20180731	7/31/2018	E314.0	14797-73-0	Perchlorate		U	0.013	0.014	mg/kg	UJ	m,ld	MS/MSD %R, RPD	56,-; 39	80-120; 20	%
4402170661	ES-24-110.0-20180731	7/31/2018	E314.0	14797-73-0	Perchlorate		U	0.014	0.014	mg/kg	UJ	m,ld	MS/MSD %R, RPD	56,-; 39	80-120; 20	%
4402170661	ES-24-120.0-20180731	7/31/2018	E314.0	14797-73-0	Perchlorate		U	0.013	0.014	mg/kg	UJ	m,ld	MS/MSD %R, RPD	56,-; 39	80-120; 20	%
4402170661	ES-24-20.0-20180730	7/30/2018	E314.0	14797-73-0	Perchlorate	2.9		0.063	0.067	mg/kg	J	m,ld	MS/MSD %R, RPD	56,-; 39	80-120; 20	%
4402170661	ES-24-30.0-20180730	7/30/2018	E314.0	14797-73-0	Perchlorate	1.9		0.067	0.070	mg/kg	J	m,ld	MS/MSD %R, RPD	56,-; 39	80-120; 20	%
4402170661	ES-24-30.0-20180730-FD	7/30/2018	E314.0	14797-73-0	Perchlorate	2.0		0.067	0.070	mg/kg	J	m,ld	MS/MSD %R, RPD	56,-; 39	80-120; 20	%
4402170661	ES-24-40.0-20180730	7/30/2018	E314.0	14797-73-0	Perchlorate		U	0.013	0.013	mg/kg	UJ	m,ld	MS/MSD %R, RPD	56,-; 39	80-120; 20	%
4402170661	ES-24-50.0-20180731	7/31/2018	E314.0	14797-73-0	Perchlorate		U	0.013	0.013	mg/kg	UJ	m,ld	MS/MSD %R, RPD	56,-; 39	80-120; 20	%
4402170661	ES-24-60.0-20180731	7/31/2018	E314.0	14797-73-0	Perchlorate		U	0.013	0.013	mg/kg	UJ	m,ld	MS/MSD %R, RPD	56,-; 39	80-120; 20	%
4402170661	ES-24-60.0-20180731-FD	7/31/2018	E314.0	14797-73-0	Perchlorate		U	0.013	0.013	mg/kg	UJ	m,ld	MS/MSD %R, RPD	56,-; 39	80-120; 20	%
4402170661	ES-24-70.0-20180731	7/31/2018	E314.0	14797-73-0	Perchlorate		U	0.014	0.014	mg/kg	UJ	m,ld	MS/MSD %R, RPD	56,-; 39	80-120; 20	%
4402170661	ES-24-80.0-20180731	7/31/2018	E314.0	14797-73-0	Perchlorate		U	0.012	0.012	mg/kg	UJ	m,ld	MS/MSD %R, RPD	56,-; 39	80-120; 20	%
4402170661	ES-24-90.0-20180731	7/31/2018	E314.0	14797-73-0	Perchlorate		UF2F1	0.012	0.012	mg/kg	UJ	m,ld	MS/MSD %R, RPD	56,-; 39	80-120; 20	%
4402182141	ES-23-190.0-20180815	8/15/2018	E314.0	14797-73-0	Perchlorate		U	0.014	0.014	mg/kg	UJ	m	MS/MSD %R	54,55	80-120	%
4402182141	ES-23-200.0-20180815	8/15/2018	E314.0	14797-73-0	Perchlorate		UF1	0.013	0.014	mg/kg	UJ	m	MS/MSD %R	54,55	80-120	%
4402199611	ES-22B-20180912-EB	9/12/2018	E314.0	14797-73-0	Perchlorate	2.7	J	0.95	4.0	ug/l	J	sp	< PQL			
4402012121	BEC-7-20180116	1/16/2018	SM2320	BICARBHCO3	Bicarbonate as HCO3	170000		4800	4800	ug/l	J	ld	DUP RPD	42	20	%
4402012121	MCF-01A-20180116	1/16/2018	SM2320	BICARBHCO3	Bicarbonate as HCO3	35000		4800	4800	ug/l	J	ld	DUP RPD	42	20	%
4402012121	MCF-01A-20180116-FD	1/16/2018	SM2320	BICARBHCO3	Bicarbonate as HCO3	37000		4800	4800	ug/l	J	ld	DUP RPD	42	20	%
4402012121	MCF-11-20180116	1/16/2018	SM2320	BICARBHCO3	Bicarbonate as HCO3	94000		4800	4800	ug/l	J	ld	DUP RPD	42	20	%
4402012121	MCF-24A-20180116	1/16/2018	SM2320	BICARBHCO3	Bicarbonate as HCO3	69000		4800	4800	ug/l	J	ld	DUP RPD	42	20	%
4402012121	MCF-27-20180116	1/16/2018	SM2320	BICARBHCO3	Bicarbonate as HCO3	77000		4800	4800	ug/l	J	ld	DUP RPD	42	20	%

Table V. Overall Qualified Results

SDG	Client Sample ID	Sample Date	Method	Client Analyte ID	Analyte	Lab Result	Lab Qualifier	SQL	PQL	Units	Validator Qualifier	Reason Code	Data Quality Indicator	Qualification Finding	Acceptance Criteria	
4402098381	PC-168-20180425	4/25/2018	SW9034	18496-25-8	Sulfide (total)		U	4.0	4.0	mg/l	UJ	m	MS/MSD %R	64,-	70-130	%
4402098381	PC-172D-20180425	4/25/2018	SW9034	18496-25-8	Sulfide (total)		UF1	4.0	4.0	mg/l	UJ	m	MS/MSD %R	64,-	70-130	%
4402098381	PC-176-20180425	4/25/2018	SW9034	18496-25-8	Sulfide (total)		U	4.0	4.0	mg/l	UJ	m	MS/MSD %R	64,-	70-130	%
4402071821	AA-01-20180326	3/26/2018	SW9040C	C-006	pH	7.9	HF	0.1	0.1	SU	J	h	Holding time	169.22	48	hours
4402071821	ES-1-20180326	3/26/2018	SW9040C	C-006	pH	7.8	HF	0.1	0.1	SU	J	h	Holding time	168.38	48	hours
4402071821	ES-1-20180326-EB	3/26/2018	SW9040C	C-006	pH	6.2	HF	0.1	0.1	SU	J	h	Holding time	168.3	48	hours
4402071821	MCF-01A-20180326	3/26/2018	SW9040C	C-006	pH	7.7	HF	0.1	0.1	SU	J	h	Holding time	145.63	48	hours
4402071821	MCF-01B-20180326	3/26/2018	SW9040C	C-006	pH	8.0	HF	0.1	0.1	SU	J	h	Holding time	169.07	48	hours
4402073011	AA-27-20180327	3/27/2018	SW9040C	C-006	pH	7.8	HF	0.1	0.1	SU	J	h	Holding time	77.35	48	hours
4402073011	AA-UW1-20180327	3/27/2018	SW9040C	C-006	pH	7.8	HF	0.1	0.1	SU	J	h	Holding time	78.97	48	hours
4402073011	AA-UW2-20180327	3/27/2018	SW9040C	C-006	pH	7.9	HF	0.1	0.1	SU	J	h	Holding time	77.92	48	hours
4402073011	AA-UW4-20180327	3/27/2018	SW9040C	C-006	pH	7.8	HF	0.1	0.1	SU	J	h	Holding time	76.3	48	hours
4402073011	AA-UW5-20180327	3/27/2018	SW9040C	C-006	pH	8.0	HF	0.1	0.1	SU	J	h	Holding time	73.73	48	hours
4402073011	ES-8A-20180327	3/27/2018	SW9040C	C-006	pH	7.6	HF	0.1	0.1	SU	J	h	Holding time	72.57	48	hours
4402073011	ES-8A-20180327-FB	3/27/2018	SW9040C	C-006	pH	5.9	HF	0.1	0.1	SU	J	h	Holding time	72.93	48	hours
4402073011	MCF-03A-20180327	3/27/2018	SW9040C	C-006	pH	8.0	HF	0.1	0.1	SU	J	h	Holding time	76.23	48	hours
4402073011	MCF-03A-20180327-FD	3/27/2018	SW9040C	C-006	pH	8.1	HF	0.1	0.1	SU	J	h	Holding time	76.15	48	hours
4402073011	MCF-03B-20180327	3/27/2018	SW9040C	C-006	pH	8.0	HF	0.1	0.1	SU	J	h	Holding time	75.3	48	hours
4402073011	MCF-27-20180327	3/27/2018	SW9040C	C-006	pH	7.9	HF	0.1	0.1	SU	J	h	Holding time	78.27	48	hours
4402073011	MCF-32B-20180327	3/27/2018	SW9040C	C-006	pH	7.7	HF	0.1	0.1	SU	J	h	Holding time	73.62	48	hours
4402074641	ES-3-20180328	3/28/2018	SW9040C	C-006	pH	7.8	HF	0.1	0.1	SU	J	h	Holding time	144.08	48	hours
4402074641	ES-3-20180328-FD	3/28/2018	SW9040C	C-006	pH	7.8	HF	0.1	0.1	SU	J	h	Holding time	144	48	hours
4402074641	ES-8B-20180328	3/28/2018	SW9040C	C-006	pH	7.7	HF	0.1	0.1	SU	J	h	Holding time	149.15	48	hours
4402074641	HMWWT1-20180328	3/28/2018	SW9040C	C-006	pH	8.0	HF	0.1	0.1	SU	J	h	Holding time	143.2	48	hours
4402074641	MCF-32A-20180328	3/28/2018	SW9040C	C-006	pH	7.7	HF	0.1	0.1	SU	J	h	Holding time	147.18	48	hours
4402076941	DBMW-13-20180330	3/30/2018	SW9040C	C-006	pH	7.5	HF	0.1	0.1	SU	J	h	Holding time	125.42	48	hours
4402076941	DBMW-15-20180330	3/30/2018	SW9040C	C-006	pH	7.7	HF	0.1	0.1	SU	J	h	Holding time	124.27	48	hours
4402076941	DBMW-16-20180330	3/30/2018	SW9040C	C-006	pH	7.8	HF	0.1	0.1	SU	J	h	Holding time	122.15	48	hours
4402076941	DBMW-18-20180330	3/30/2018	SW9040C	C-006	pH	7.7	HF	0.1	0.1	SU	J	h	Holding time	121.32	48	hours
4402076941	DBMW-18-20180330-FD	3/30/2018	SW9040C	C-006	pH	7.8	HF	0.1	0.1	SU	J	h	Holding time	121.22	48	hours
4402076941	DBMW-22-20180330	3/30/2018	SW9040C	C-006	pH	7.5	HF	0.1	0.1	SU	J	h	Holding time	121.88	48	hours
4402076941	MW-05-20180330	3/30/2018	SW9040C	C-006	pH	7.8	HF	0.1	0.1	SU	J	h	Holding time	122.8	48	hours
4402076941	MW-10-20180330	3/30/2018	SW9040C	C-006	pH	7.8	HF	0.1	0.1	SU	J	h	Holding time	125	48	hours
4402076941	MW-11-20180330	3/30/2018	SW9040C	C-006	pH	7.7	HF	0.1	0.1	SU	J	h	Holding time	125.87	48	hours
4402076941	MW-18-20180330	3/30/2018	SW9040C	C-006	pH	7.8	HF	0.1	0.1	SU	J	h	Holding time	124.02	48	hours
4402078221	BEC-10-20180402	4/2/2018	SW9040C	C-006	pH	7.7	HF	0.1	0.1	SU	J	h	Holding time	48.23	48	hours
4402078221	DBMW-1-20180402	4/2/2018	SW9040C	C-006	pH	7.7	HF	0.1	0.1	SU	J	h	Holding time	52.5	48	hours
4402078221	DBMW-3-20180402	4/2/2018	SW9040C	C-006	pH	7.7	HF	0.1	0.1	SU	J	h	Holding time	51.55	48	hours
4402078221	DBMW-4-20180402	4/2/2018	SW9040C	C-006	pH	7.7	HF	0.1	0.1	SU	J	h	Holding time	50.35	48	hours
4402078221	DBMW-5-20180402	4/2/2018	SW9040C	C-006	pH	7.8	HF	0.1	0.1	SU	J	h	Holding time	49.12	48	hours
4402078221	ES-10-20180402	4/2/2018	SW9040C	C-006	pH	7.6	HF	0.1	0.1	SU	J	h	Holding time	50.45	48	hours
4402078221	ES-11-20180402	4/2/2018	SW9040C	C-006	pH	7.8	HF	0.1	0.1	SU	J	h	Holding time	49.05	48	hours
4402078221	ES-12-20180402	4/2/2018	SW9040C	C-006	pH	7.7	HF	0.1	0.1	SU	J	h	Holding time	51.52	48	hours
4402078221	ES-13-20180402	4/2/2018	SW9040C	C-006	pH	7.6	HF	0.1	0.1	SU	J	h	Holding time	48.03	48	hours
4402079621	AA-07-20180403	4/3/2018	SW9040C	C-006	pH	7.7	HF	0.1	0.1	SU	J	h	Holding time	50.27	48	hours
4402079621	DBMW-14-20180403	4/3/2018	SW9040C	C-006	pH	7.5	HF	0.1	0.1	SU	J	h	Holding time	53.82	48	hours
4402079621	DBMW-17-20180403	4/3/2018	SW9040C	C-006	pH	7.9	HF	0.1	0.1	SU	J	h	Holding time	52.58	48	hours
4402079621	DBMW-7-20180403	4/3/2018	SW9040C	C-006	pH	7.7	HF	0.1	0.1	SU	J	h	Holding time	53.6	48	hours
4402079621	DBMW-8-20180403	4/3/2018	SW9040C	C-006	pH	7.8	HF	0.1	0.1	SU	J	h	Holding time	54.52	48	hours
4402079621	MCF-05-20180403	4/3/2018	SW9040C	C-006	pH	11.6	HF	0.1	0.1	SU	J	h	Holding time	49.33	48	hours
4402079621	MCF-07-20180403	4/3/2018	SW9040C	C-006	pH	7.1	HF	0.1	0.1	SU	J	h	Holding time	51.05	48	hours

Table V. Overall Qualified Results

SDG	Client Sample ID	Sample Date	Method	Client Analyte ID	Analyte	Lab Result	Lab Qualifier	SQL	PQL	Units	Validator Qualifier	Reason Code	Data Quality Indicator	Qualification Finding	Acceptance Criteria	
4402079621	MCF-16A-20180403	4/3/2018	SW9040C	C-006	pH	7.5	HF	0.1	0.1	SU	J	h	Holding time	48.22	48	hours
4402079621	MCF-16A-20180403-FD	4/3/2018	SW9040C	C-006	pH	7.5	HF	0.1	0.1	SU	J	h	Holding time	48.13	48	hours
4402079621	MCF-20A-20180403	4/3/2018	SW9040C	C-006	pH	7.0	HF	0.1	0.1	SU	J	h	Holding time	51	48	hours
4402080711	ES-2-20180404	4/4/2018	SW9040C	C-006	pH	7.9	HF	0.1	0.1	SU	J	h	Holding time	101.42	48	hours
4402080711	ES-4-20180404	4/4/2018	SW9040C	C-006	pH	7.5	HF	0.1	0.1	SU	J	h	Holding time	99.53	48	hours
4402080711	ES-4-20180404-EB	4/4/2018	SW9040C	C-006	pH	6.0	HF	0.1	0.1	SU	J	h	Holding time	99.45	48	hours
4402080711	ES-4-20180404-FB	4/4/2018	SW9040C	C-006	pH	6.0	HF	0.1	0.1	SU	J	h	Holding time	99.4	48	hours
4402080711	MCF-16B-20180404	4/4/2018	SW9040C	C-006	pH	7.8	HF	0.1	0.1	SU	J	h	Holding time	101.28	48	hours
4402080711	MCF-16C-20180404	4/4/2018	SW9040C	C-006	pH	7.8	HF	0.1	0.1	SU	J	h	Holding time	100.23	48	hours
4402080711	MCF-24A-20180404	4/4/2018	SW9040C	C-006	pH	12.3	HF	0.1	0.1	SU	J	h	Holding time	98.35	48	hours
4402080711	POD8-20180404	4/4/2018	SW9040C	C-006	pH	7.9	HF	0.1	0.1	SU	J	h	Holding time	102.6	48	hours
4402080711	POU3-20180404	4/4/2018	SW9040C	C-006	pH	7.8	HF	0.1	0.1	SU	J	h	Holding time	100.57	48	hours
4402081861	AA-09-20180405	4/5/2018	SW9040C	C-006	pH	7.8	HF	0.1	0.1	SU	J	h	Holding time	77.78	48	hours
4402081861	BEC-12-20180405	4/5/2018	SW9040C	C-006	pH	8.1	HF	0.1	0.1	SU	J	h	Holding time	72.75	48	hours
4402081861	BEC-12-20180405-EB	4/5/2018	SW9040C	C-006	pH	6.0	HF	0.1	0.1	SU	J	h	Holding time	73.63	48	hours
4402081861	BEC-5-20180405	4/5/2018	SW9040C	C-006	pH	7.8	HF	0.1	0.1	SU	J	h	Holding time	78.25	48	hours
4402081861	BEC-5-20180405-FD	4/5/2018	SW9040C	C-006	pH	7.8	HF	0.1	0.1	SU	J	h	Holding time	78.33	48	hours
4402081861	BEC-7-20180405	4/5/2018	SW9040C	C-006	pH	7.8	HF	0.1	0.1	SU	J	h	Holding time	76.22	48	hours
4402081861	BEC-9-20180405	4/5/2018	SW9040C	C-006	pH	7.8	HF	0.1	0.1	SU	J	h	Holding time	77.22	48	hours
4402081861	ES-5-20180405	4/5/2018	SW9040C	C-006	pH	7.6	HF	0.1	0.1	SU	J	h	Holding time	104.42	48	hours
4402081861	MCF-09A-20180405	4/5/2018	SW9040C	C-006	pH	7.7	HF	0.1	0.1	SU	J	h	Holding time	76.73	48	hours
4402081861	MCF-09B-20180405	4/5/2018	SW9040C	C-006	pH	7.7	HF	0.1	0.1	SU	J	h	Holding time	101.63	48	hours
4402081861	MCF-24B-20180405	4/5/2018	SW9040C	C-006	pH	7.4	HF	0.1	0.1	SU	J	h	Holding time	104.52	48	hours
4402081861	MW-4-20180405	4/5/2018	SW9040C	C-006	pH	7.8	HF	0.1	0.1	SU	J	h	Holding time	75	48	hours
4402083881	ES-28-20180409	4/9/2018	SW9040C	C-006	pH	7.7	HF	0.1	0.1	SU	J	h	Holding time	48.15	48	hours
4402083881	ES-30-20180409	4/9/2018	SW9040C	C-006	pH	7.6	HF	0.1	0.1	SU	J	h	Holding time	49.7	48	hours
4402083881	ES-31-20180409	4/9/2018	SW9040C	C-006	pH	7.6	HF	0.1	0.1	SU	J	h	Holding time	51.07	48	hours
4402083881	ES-31-20180409-FD	4/9/2018	SW9040C	C-006	pH	7.6	HF	0.1	0.1	SU	J	h	Holding time	50.98	48	hours
4402083881	MCF-06A-R-20180409	4/9/2018	SW9040C	C-006	pH	7.1	HF	0.1	0.1	SU	J	h	Holding time	50.77	48	hours
4402085451	AA-07-20180410	4/10/2018	SW9040C	C-006	pH	8.0	HF	0.1	0.1	SU	J	h	Holding time	53.12	48	hours
4402085451	AA-26-20180410	4/10/2018	SW9040C	C-006	pH	7.8	HF	0.1	0.1	SU	J	h	Holding time	56.7	48	hours
4402085451	DBMW-14-20180410	4/10/2018	SW9040C	C-006	pH	7.7	HF	0.1	0.1	SU	J	h	Holding time	56.02	48	hours
4402085451	DBMW-14-20180410-FD	4/10/2018	SW9040C	C-006	pH	7.7	HF	0.1	0.1	SU	J	h	Holding time	55.93	48	hours
4402085451	ES-19-20180410	4/10/2018	SW9040C	C-006	pH	7.8	HF	0.1	0.1	SU	J	h	Holding time	51.95	48	hours
4402085451	ES-20-20180410	4/10/2018	SW9040C	C-006	pH	7.9	HF	0.1	0.1	SU	J	h	Holding time	50.2	48	hours
4402085451	ES-20-20180410-EB	4/10/2018	SW9040C	C-006	pH	5.9	HF	0.1	0.1	SU	J	h	Holding time	50.28	48	hours
4402085451	MCF-07-20180410	4/10/2018	SW9040C	C-006	pH	7.1	HF	0.1	0.1	SU	J	h	Holding time	54.32	48	hours
4402085451	MW-04-20180410	4/10/2018	SW9040C	C-006	pH	7.8	HF	0.1	0.1	SU	J	h	Holding time	51.07	48	hours
4402085451	MW-05-20180410	4/10/2018	SW9040C	C-006	pH	7.9	HF	0.1	0.1	SU	J	h	Holding time	50.53	48	hours
4402085451	POD5-R-20180410-FB	4/10/2018	SW9040C	C-006	pH	6.0	HF	0.1	0.1	SU	J	h	Holding time	54.48	48	hours
4402086321	DBMW-22-20180411	4/11/2018	SW9040C	C-006	pH	7.8	HF	0.1	0.1	SU	J	h	Holding time	100.3	48	hours
4402086321	ES-25A-20180411	4/11/2018	SW9040C	C-006	pH	7.9	HF	0.1	0.1	SU	J	h	Holding time	100.65	48	hours
4402086321	ES-25B-20180411	4/11/2018	SW9040C	C-006	pH	7.7	HF	0.1	0.1	SU	J	h	Holding time	99.9	48	hours
4402086321	ES-26-20180411	4/11/2018	SW9040C	C-006	pH	8.0	HF	0.1	0.1	SU	J	h	Holding time	101.85	48	hours
4402086321	ES-27-20180411	4/11/2018	SW9040C	C-006	pH	7.9	HF	0.1	0.1	SU	J	h	Holding time	102.77	48	hours
4402086321	MW-10-20180411	4/11/2018	SW9040C	C-006	pH	8.0	HF	0.1	0.1	SU	J	h	Holding time	96.48	48	hours
4402086321	MW-11-20180411	4/11/2018	SW9040C	C-006	pH	8.0	HF	0.1	0.1	SU	J	h	Holding time	97.62	48	hours
4402086321	MW-1-20180411	4/11/2018	SW9040C	C-006	pH	7.9	HF	0.1	0.1	SU	J	h	Holding time	102.9	48	hours
4402086321	MW-1-20180411-FD	4/11/2018	SW9040C	C-006	pH	7.8	HF	0.1	0.1	SU	J	h	Holding time	102.82	48	hours
4402086321	MW-2-20180411	4/11/2018	SW9040C	C-006	pH	7.8	HF	0.1	0.1	SU	J	h	Holding time	104.15	48	hours
4402087831	DM-1-20180412	4/12/2018	SW9040C	C-006	pH	7.9	HF	0.1	0.1	SU	J	h	Holding time	76.62	48	hours

Table V. Overall Qualified Results

SDG	Client Sample ID	Sample Date	Method	Client Analyte ID	Analyte	Lab Result	Lab Qualifier	SQL	PQL	Units	Validator Qualifier	Reason Code	Data Quality Indicator	Qualification Finding	Acceptance Criteria	
4402087831	ES-32-20180412	4/12/2018	SW9040C	C-006	pH	7.9	HF	0.1	0.1	SU	J	h	Holding time	77.53	48	hours
4402087831	ES-6-20180412	4/12/2018	SW9040C	C-006	pH	7.9	HF	0.1	0.1	SU	J	h	Holding time	77.15	48	hours
4402087831	ES-6-20180412-FD	4/12/2018	SW9040C	C-006	pH	7.9	HF	0.1	0.1	SU	J	h	Holding time	77.07	48	hours
4402087831	ES-7-20180412	4/12/2018	SW9040C	C-006	pH	8.0	HF	0.1	0.1	SU	J	h	Holding time	78.67	48	hours
4402087831	HMW-18-20180412	4/12/2018	SW9040C	C-006	pH	7.9	HF	0.1	0.1	SU	J	h	Holding time	74.97	48	hours
4402087831	HMW-18-20180412-EB	4/12/2018	SW9040C	C-006	pH	6.8	HF	0.1	0.1	SU	J	h	Holding time	73.95	48	hours
4402087831	MCF-06C-20180412	4/12/2018	SW9040C	C-006	pH	7.8	HF	0.1	0.1	SU	J	h	Holding time	79.78	48	hours
4402087831	MCF-11-20180412	4/12/2018	SW9040C	C-006	pH	8.0	HF	0.1	0.1	SU	J	h	Holding time	77.78	48	hours
4402087831	MW-18-20180412	4/12/2018	SW9040C	C-006	pH	7.9	HF	0.1	0.1	SU	J	h	Holding time	79.4	48	hours
4402087831	POD7-R-20180412	4/12/2018	SW9040C	C-006	pH	7.8	HF	0.1	0.1	SU	J	h	Holding time	76	48	hours
4402090111	ES-15-20180416	4/16/2018	SW9040C	C-006	pH	7.7	HF	0.1	0.1	SU	J	h	Holding time	48.68	48	hours
4402091771	ES-14B-20180417	4/17/2018	SW9040C	C-006	pH	7.8	HF	0.1	0.1	SU	J	h	Holding time	52.12	48	hours
4402091771	ES-9-20180417	4/17/2018	SW9040C	C-006	pH	7.7	HF	0.1	0.1	SU	J	h	Holding time	55.3	48	hours
4402097061	MW-12-20180424	4/24/2018	SW9040C	C-006	pH	7.8	HF	0.1	0.1	SU	J	h	Holding time	57.6	48	hours
4402097061	MW-15-20180424	4/24/2018	SW9040C	C-006	pH	8.0	HF	0.1	0.1	SU	J	h	Holding time	51.52	48	hours
4402097061	MW-21R-20180424	4/24/2018	SW9040C	C-006	pH	8.0	HF	0.1	0.1	SU	J	h	Holding time	54.8	48	hours
4402097061	MW-23-20180424	4/24/2018	SW9040C	C-006	pH	7.9	HF	0.1	0.1	SU	J	h	Holding time	58.43	48	hours
4402097061	MW-25-20180424	4/24/2018	SW9040C	C-006	pH	8.0	HF	0.1	0.1	SU	J	h	Holding time	56.92	48	hours
4402098381	MW-20-20180425	4/25/2018	SW9040C	C-006	pH	7.9	HF	0.1	0.1	SU	J	h	Holding time	97.1	48	hours
4402098381	PC-168-20180425	4/25/2018	SW9040C	C-006	pH	7.9	HF	0.1	0.1	SU	J	h	Holding time	100.88	48	hours
4402098381	PC-172D-20180425	4/25/2018	SW9040C	C-006	pH	7.8	HF	0.1	0.1	SU	J	h	Holding time	101.6	48	hours
4402098381	PC-176-20180425	4/25/2018	SW9040C	C-006	pH	7.8	HF	0.1	0.1	SU	J	h	Holding time	99.63	48	hours
4402099511	HMWWT6-20180426	4/26/2018	SW9040C	C-006	pH	8.0	HF	0.1	0.1	SU	J	h	Holding time	75.08	48	hours
4402099511	MCF-06B-20180426	4/26/2018	SW9040C	C-006	pH	7.9	HF	0.1	0.1	SU	J	h	Holding time	76.23	48	hours
4402099511	MW-19-20180426	4/26/2018	SW9040C	C-006	pH	7.9	HF	0.1	0.1	SU	J	h	Holding time	73.52	48	hours
4402121831	ES-14A-20180524	5/24/2018	SW9040C	C-006	pH	7.7	HF	0.1	0.1	SU	J	h	Holding time	73.35	48	hours
4402121831	ES-16-20180524	5/24/2018	SW9040C	C-006	pH	7.7	HF	0.1	0.1	SU	J	h	Holding time	74.15	48	hours
4402121831	ES-17-20180524	5/24/2018	SW9040C	C-006	pH	7.8	HF	0.1	0.1	SU	J	h	Holding time	71.15	48	hours
4402121831	ES-18-20180524	5/24/2018	SW9040C	C-006	pH	7.9	HF	0.1	0.1	SU	J	h	Holding time	75.2	48	hours

ATTACHMENT A

1,2,3-Trichloropropane and 1,4-Dioxane Data Validation Report

1,2,3-Trichloropropane and 1,4-Dioxane by Environmental Protection Agency (EPA) SW 846 Method 8260B in Selected Ion Monitoring (SIM) mode

I. Sample Receipt and Technical Holding Times

All samples were received in good condition and cooler temperatures upon receipt met validation criteria.

All technical holding time requirements were met.

II. GC/MS Instrument Performance Check

Instrument performance check data were not reviewed for Stage 2A validation.

III. Initial Calibration and Initial Calibration Verification

Initial calibration data were not reviewed for Stage 2A validation.

IV. Continuing Calibration

Continuing calibration data were not reviewed for Stage 2A validation.

V. Laboratory Blanks

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

VI. Field Blanks

No field blanks were identified in this SDG.

VII. Surrogates

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

VIII. 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. Relative percent differences (RPD) were within QC limits.

IX. 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.

X. Field Duplicates

No field duplicates were identified in this SDG.

XI. Internal Standards

Internal standard data were not reviewed for Stage 2A validation.

XII. Compound Quantitation

Raw data were not reviewed for Stage 2A validation.

XIII. Target Compound Identifications

Raw data were not reviewed for Stage 2A validation.

XIV. System Performance

Raw data were not reviewed for Stage 2A validation.

XV. Overall Assessment of Data

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

The quality control criteria reviewed were met and are considered acceptable. Based upon the data validation all results are considered valid and usable for all purposes.

NERT RI, Phase 3, April 2018
1,2,3-Trichloropropane & 1,4-Dioxane - Data Qualification Summary - SDG 440-209838-1

No Sample Data Qualified in this SDG

NERT RI, Phase 3, April 2018
1,2,3-Trichloropropane & 1,4-Dioxane - Laboratory Blank Data Qualification Summary - SDG 440-209838-1

No Sample Data Qualified in this SDG

NERT RI, Phase 3, April 2018
1,2,3-Trichloropropane & 1,4-Dioxane - Field Blank Data Qualification Summary - SDG 440-209838-1

No Sample Data Qualified in this SDG

ATTACHMENT B

Metals Data Validation Report

Calcium, Chromium, Magnesium, Potassium, and Sodium by Environmental Protection Agency (EPA) Method 200.7
Chromium by EPA SW 846 Method 6010B

I. Sample Receipt and Technical Holding Times

All samples were received in good condition.

All technical holding time requirements were met.

II. Instrument Calibration

Initial and continuing calibrations were performed as required by the methods.

The initial calibration verification (ICV) and continuing calibration verification (CCV) standards were within QC limits.

Instrument calibration data were not reviewed for Stage 2A validation.

III. ICP Interference Check Sample Analysis

The frequency of interference check sample (ICS) analysis was met. All criteria were within QC limits.

ICP Interference check sample (ICS) analysis data were not reviewed for Stage 2A validation.

IV. Laboratory Blanks

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

SDG	Blank ID	Analyte	Maximum Concentration	Associated Samples
440-201039-1	PB (prep blank)	Calcium	0.0673 mg/L	All samples in SDG 440-201039-1
440-201461-1	PB (prep blank)	Magnesium	0.0144 mg/L	All samples in SDG 440-201461-1
440-201477-1	PB (prep blank)	Magnesium	0.0144 mg/L	All samples in SDG 440-201477-1
440-205129-1	PB (prep blank)	Sodium	0.214 mg/L	All samples in SDG 440-205129-1

*Indicates Stage 2A validation
**Indicates Stage 4 validation
Samples appended with “F” were analyzed for dissolved metals

SDG	Blank ID	Analyte	Maximum Concentration	Associated Samples
440-206198-1	PB (prep blank)	Sodium	0.388 mg/L	All samples in SDG 440-206198-1
440-207182-1	PB (prep blank)	Sodium	0.348 mg/L	All samples in SDG 440-207182-1
440-207301-1	PB (prep blank)	Sodium	0.361 mg/L	All samples in SDG 440-207301-1
440-207464-1	PB (prep blank)	Sodium Magnesium	0.643 mg/L 0.0351 mg/L	All samples in SDG 440-207464-1
440-207515-1	PB (prep blank)	Calcium	0.154 mg/L	DMW-9-20180329* DBMW-9-20180329-FD* DBMW-10-20180329* AA-18-20180329* DBMW-12-20180329*
440-207822-1	PB (prep blank)	Calcium	0.0670 mg/L	All samples in SDG 440-207822-1
440-208545-1	PB (prep blank)	Sodium Calcium	0.330 mg/L 0.0544 mg/L	DBMW-14-20180410* DBMW-14-20180410-FD* AA-26-20180410* MCF-07-20180410* AA-07-20180410* POD5-R-20180410-FB* ES-19-20180410* ES-20-20180410* ES-20-20180410-EB* MW-04-20180410* MW-05-20180410*
440-219853-1	PB (prep blank)	Sodium	0.400 mg/L	ES-21B-20180911*

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.

V. Field Blanks

Samples BEC-7-20180116-EB* (from SDG 440-201212-1), BEC-5-20180117-EB* (from SDG 440-201349-1), BEC-10-20180118-EB* (from SDG 440-201477-1), DBMW-3-20180119-EB* (from SDG 440-201555-1), DBMW-15-20180123-EB*, DBMW-7-20180123-EB* (both from SDG 440-201758-1), ES-01-20180326-EB* (from SDG 440-207182-1), DBMW-10-20180329-EB* (from SDG 440-207515-1), ES-4-20180404-EB*, ES-4-20180404-EB^{F}* (both from SDG 440-208071-1), BEC-12-20180405-EB*, BEC-12-20180405-EB^{F}* (both from SDG 440-208186-1), ES-20-20180410-EB*, ES-20-

*Indicates Stage 2A validation
**Indicates Stage 4 validation
Samples appended with “F” were analyzed for dissolved metals

20180410-EB^{F}* (both from SDG 440-208545-1), HMW-18-20180412-EB*, HMW-18-20180412-EB^{F}* (both from SDG 440-208783-1), and ES-22B-20180912-EB^{F}* (from SDG 440-219961-1) were identified as equipment blanks. No contaminants were found with the following exceptions:

SDG	Blank ID	Collection Date	Analyte	Concentration	Associated Samples
440-201212-1	BEC-7-20180116-EB*	01/16/18	Calcium Magnesium	0.083 mg/L 0.035 mg/L	BEC-7-20180116*
440-201349-1	BEC-5-20180117-EB*	01/17/18	Calcium Magnesium Potassium	0.089 mg/L 0.13 mg/L 0.56 mg/L	BEC-5-20180117*
440-201555-1	DBMW-3-20180119-EB*	01/19/18	Calcium Magnesium	0.10 mg/L 0.046 mg/L	DBMW-3-20180119*
440-201758-1	DBMW-15-20180123-EB*	01/23/18	Sodium	0.29 mg/L	DBMW-15-20180123*
440-201758-1	DBMW-7-20180123-EB*	01/23/18	Sodium Magnesium	0.37 mg/L 0.015 mg/L	DBMW-7-20180123*
440-208783-1	HMW-18-20180412-EB*	04/12/18	Magnesium	0.012 mg/L	HMW-18-20180412*

Samples POD8-20180112-FB* (from SDG 440-201039-1), MCF-24A-20180116-FB* (from SDG 440-201212-1), MCF-24B-20180117-FB* (from SDG 440-201349-1), MCF-16B-20180118-FB* (from SDG 440-201477-1), MCF-05-20180119-FB* (from SDG 440-201555-1), DBMW-13-20180123-FB* (from SDG 440-201758-1), ES-8A-20180327-FB (from SDG 440-207301-1), ES-4-20180404-FB*, ES-4-20180404-FB^{F}* (both from SDG 440-208071-1), POD5-R-20180410-FB*, and POD5-R-20180410-FB^{F}* (both from SDG 440-208545-1) were identified as field blanks. No contaminants were found with the following exceptions:

SDG	Blank ID	Collection Date	Analyte	Concentration	Associated Samples
440-201039-1	POD8-20180112-FB*	01/12/18	Potassium	0.27 mg/L	POD8-20180112*
440-201212-1	MCF-24A-20180116-FB*	01/16/18	Magnesium	0.012 mg/L	MCF-24A-20180116*
440-201477-1	MCF-16B-20180118-FB*	01/18/18	Calcium Magnesium Potassium Sodium	0.082 mg/L 0.85 mg/L 2.5 mg/L 0.53 mg/L	MCF-16B-20180118*

*Indicates Stage 2A validation
**Indicates Stage 4 validation
Samples appended with “F” were analyzed for dissolved metals

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.

VI. 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
440-201349-1	MCF-03B-20180117-FDMS/MSD* (MCF-24B-20180117* BEC-5-20180117* MCF-32A-20180117* MCF-03B-20180117* MCF-03B-20180117-FD*)	Potassium	-	140 (70-130)	J+ (all detects)	A

For several MS/MSDs, no data were qualified for Calcium, Magnesium, Potassium, and Sodium 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.

VII. 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.

VIII. Serial Dilution

Serial dilution analysis was performed on an associated project sample for method 6010B. The analysis criteria were met.

IX. Laboratory Control Samples

Laboratory control samples (LCS) were analyzed as required by the methods. Percent recoveries (%R) were within QC limits.

X. Field Duplicates

Samples AA-UW2-20180108* and AA-UW2-20180108-FD* (both from SDG 440-199942-1), samples POD7-R-20180110* and POD7-R-20180110-FD* (both from SDG 440-200423-1), samples BEC-6-20180111* and BEC-6-20180111-FD* (both from SDG 440-200639-1), samples MCF-01A-20180116* and MCF-01A-20180116-FD* (both from

SDG 440-201212-1), samples MCF-03B-20180117* and MCF-03B-20180117-FD* (both from SDG 440-201349-1), samples EBS-13-20.0-20180116 and EBS-13-20.0-20180116-FD (both from SDG 440-201352-1), samples EBS-13-80.0-20180116 and EBS-13-80.0-20180116-FD (both from SDG 440-201352-1), samples MCF-16C-20180118* and MCF-16C-20180118-FD* (both from SDG 440-201477-1), samples DBMW-1-20180119* and DBMW-1-20180119-FD* (both from SDG 440-201555-1), samples MCF-06B-20180122* and MCF-06B-20180122-FD* (both from SDG 440-201673-1), samples DBMW-4-20180122* and DBMW-4-20180122-FD* (both from SDG 440-201673-1), samples DBMW-17-20180123* and DBMW-17-20180123-FD* (both from SDG 440-201758-1), samples POD7-20180123* and POD7-20180123-FD* (both from SDG 440-201758-1), samples ES-13-20.0-20180122 and ES-13-20.0-20180122-FD (both from SDG 440-201874-1), samples ES-13-80.0-20180123 and ES-13-80.0-20180123-FD (both from SDG 440-201874-1), samples MCF-06A-R-20180124* and MCF-06A-R-20180124-FD* (both from SDG 440-201886-1), samples ES-20-20.0-20180130 and ES-20-20.0-20180130-FD (both from SDG 440-202382-1), samples ES-20-80.0-20180130 and ES-20-80.0-20180130-FD (both from SDG 440-202382-1), samples ESB-15-20.0-20180204 and ESB-15-20.0-20180204-FD (both from SDG 440-202717-1), samples ESB-15-80.0-20180204 and ESB-15-80.0-20180204-FD (both from SDG 440-202717-1), samples ES-29-20180217* and ES-29-20180217-FD* (both from SDG 440-203773-1), samples ES-16-20.0-20180228 and ES-16-20.0-20180228-FD (both from SDG 440-204592-1), samples ES-16-80.0-20180228 and ES-16-80.0-20180228-FD (both from SDG 440-204592-1), samples ES-27-20.0-20180307 and ES-27-20.0-20180307-FD (both from SDG 440-205338-1), samples ES-27-80.0-20180307 and ES-27-80.0-20180307-FD (both from SDG 440-205338-1), samples MCF-03A-20180327* and MCF-03A-20180327-FD* (both from SDG 440-207301-1), samples ES-3-20180328* and ES-3-20180328-FD* (both from SDG 440-207464-1), samples DMW-9-20180329* and DBMW-9-20180329-FD* (both from SDG 440-207515-1), samples DBMW-18-20180330-FD* and DBMW-18-20180330* (both from SDG 440-207694-1), samples MCF-16A-20180403* and MCF-16A-20180403-FD* (both from SDG 440-207962-1), samples MCF-16A-20180403^{F}* and MCF-16A-20180403-FD^{F}* (both from SDG 440-207962-1), samples BEC-5-20180405* and BEC-5-20180405-FD* (both from SDG 440-208186-1), samples BEC-5-20180405^{F}* and BEC-5-20180405-FD^{F}* (both from SDG 440-208186-1), samples ES-31-20180409* and ES-31-20180409-FD* (both from SDG 440-208388-1), samples DBMW-14-20180410* and DBMW-14-20180410-FD* (both from SDG 440-208545-1), samples DBMW-14-20180410^{F}* and DBMW-14-20180410-FD^{F}* (both from SDG 440-208545-1), samples MW-1-20180411* and MW-1-20180411-FD* (both from SDG 440-208632-1), samples MW-1-20180411^{F}* and MW-1-20180411-FD^{F}* (both from SDG 440-208632-1), samples ES-6-20180412* and ES-6-20180412-FD* (both from SDG 440-208783-1), samples ES-6-20180412^{F}* and ES-6-20180412-FD^{F}* (both from SDG 440-208783-1), samples NERT4.51S1-40.0-20180613** and NERT4.51S1-40.0-20180613-FD** (both from SDG 440-213750-1), samples NERT5.11S1-70.0-20180616 and NERT5.11S1-70.0-20180616-FD (both from SDG 440-213885-1), samples NERT5.91S1-70.0-20180617 and NERT5.91S1-70.0-20180617-FD (both from SDG 440-213885-1), samples NERT5.49S1-60.0-20180618 and NERT5.49S1-60.0-20180618-FD (both from SDG 440-213889-1), samples NERT4.21N1-70.0-20180619 and NERT4.21N1-70.0-20180619-FD (both from SDG 440-214104-1), samples NERT4.71S1-40.0-20180626** and NERT4.71S1-40.0-

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20180626-FD** (both from SDG 440-214510-1), samples NERT3.80S1-30.0-20180627 and NERT3.80S1-30.0-20180627-FD (both from SDG 440-214614-1), samples ES-24-30.0-20180730 and ES-24-30.0-20180730-FD (both from SDG 440-217066-1), samples ES-24-60.0-20180731 and ES-24-60.0-20180731-FD (both from SDG 440-217066-1), samples ES-22-20.0-20180801** and ES-22-20.0-20180801-FD** (both from SDG 440-217261-1), samples ES-22-40.0-20180801** and ES-22-40.0-20180801-FD** (both from SDG 440-217261-1), samples ES-21-30.0-20180806 and ES-21-30.0-20180806-FD (both from SDG 440-217667-1), samples ES-23-40.0-20180813 and ES-23-40.0-20180813-FD (both from SDG 440-218126-1), samples ES-24-20180912* and ES-24-20180912-FD* (both from SGD 440-219956-1), samples ES-24-20180912^{F}* and ES-24-20180912-FD^{F}* (both from SGD 440-219956-1), samples ES-22A-20181113* and ES-22A-20181113-FD* (both from SDG 440-224310-1), and samples ES-22A-20181113^{F}* and ES-22A-20181113-FD^{F}* (both from SDG 440-224310-1) 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
		AA-UW2-20180108*	AA-UW2-20180108-FD*			
440-199942-1	Calcium	270	290	7 (≤30)	-	-
	Magnesium	130	150	14 (≤30)	-	-
	Potassium	7.1	7.6	7 (≤30)	-	-
	Sodium	370	390	5 (≤30)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		POD7-R-20180110*	POD7-R-20180110-FD*			
440-200423-1	Calcium	320	310	3 (≤30)	-	-
	Magnesium	88	86	2 (≤30)	-	-
	Potassium	28	30	7 (≤30)	-	-
	Sodium	390	380	3 (≤30)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		BEC-6-20180111	BEC-6-20180111-FD			
440-200639-1	Calcium	410	400	2 (≤30)	-	-

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SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		BEC-6-20180111	BEC-6-20180111-FD			
	Magnesium	74	73	1 (≤30)	-	-
	Potassium	80	79	1 (≤30)	-	-
	Sodium	370	360	3 (≤30)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		MCF-01A-20180116*	MCF-01A-20180116-FD*			
440-201212-1	Calcium	510	500	2 (≤30)	-	-
	Magnesium	140	140	0 (≤30)	-	-
	Potassium	25	26	4 (≤30)	-	-
	Sodium	380	380	0 (≤30)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		MCF-03B-20180117*	MCF-03B-20180117-FD*			
440-201349-1	Calcium	140	140	0 (≤30)	-	-
	Magnesium	83	83	0 (≤30)	-	-
	Potassium	13	13	0 (≤30)	-	-
	Sodium	460	450	2 (≤30)	-	-

SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		EBS-13-20.0-20180116	EBS-13-20.0-20180116-FD			
440-201352-1	Chromium	18	16	12 (≤50)	-	-

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SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		EBS-13-80.0-20180116	EBS-13-80.0-20180116-FD			
440-201352-1	Chromium	16	15	6 (≤50)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		MCF-16C-20180118*	MCF-16C-20180118-FD*			
440-201477-1	Calcium	510	520	2 (≤30)	-	-
440-201477-1	Magnesium	1300	1500	14 (≤30)	-	-
	Potassium	820	910	10 (≤30)	-	-
	Sodium	670	730	9 (≤30)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		DBMW-1-20180119*	DBMW-1-20180119-FD*			
440-201555-1	Calcium	610	620	2 (≤30)	-	-
	Magnesium	290	300	3 (≤30)	-	-
	Potassium	62	63	2 (≤30)	-	-
	Sodium	720	740	3 (≤30)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		MCF-06B-20180122*	MCF-06B-20180122-FD*			
440-201673-1	Calcium	460	480	4 (≤30)	-	-
	Magnesium	3500	3700	6 (≤30)	-	-
	Potassium	3500	3700	6 (≤30)	-	-
	Sodium	3600	3800	5 (≤30)	-	-

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SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		DBMW-4-20180122*	DBMW-4-20180122-FD*			
440-201673-1	Calcium	600	610	2 (≤30)	-	-
	Magnesium	240	250	4 (≤30)	-	-
	Potassium	85	86	1 (≤30)	-	-
	Sodium	630	640	2 (≤30)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		DBMW-17-20180123*	DBMW-17-20180123-FD*			
440-201758-1	Calcium	140	150	7 (≤30)	-	-
	Magnesium	18	18	0 (≤30)	-	-
	Potassium	20	22	10 (≤30)	-	-
	Sodium	94	100	6 (≤30)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		POD7-20180123*	POD7-20180123-FD*			
440-201758-1	Calcium	970	1100	13 (≤30)	-	-
	Magnesium	420	470	11 (≤30)	-	-
	Potassium	23	25	8 (≤30)	-	-
	Sodium	490	550	12 (≤30)	-	-

SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		ES-13-20.0-20180122	ES-13-20.0-20180122-FD			
440-201874-1	Chromium	17	19	11 (≤50)	-	-

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SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		ES-13-80.0-20180123	ES-13-80.0-20180123-FD			
440-201874-1	Chromium	37	22	51 (≤50)	J (all detects)	A

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		MCF-06A-R-20180124*	MCF-06A-R-20180124-FD*			
440-201886-1	Calcium	160	160	0 (≤30)	-	-
	Magnesium	17000	17000	0 (≤30)	-	-
440-201886-1	Potassium	12000	12000	0 (≤30)	-	-
	Sodium	34000	35000	3 (≤30)	-	-

SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		ES-20-20.0-20180130	ES-20-20.0-20180130-FD			
440-202382-1	Chromium	13	10	26 (≤50)	-	-

SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		ES-20-80.0-20180130	ES-20-80.0-20180130-FD			
440-202382-1	Chromium	11	11	0 (≤50)	-	-

SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		ESB-15-20.0-20180204	ESB-15-20.0-20180204-FD			
440-202717-1	Chromium	7.9	4.1	63 (≤50)	J (all detects)	A

SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		ESB-15-80.0-20180204	ESB-15-80.0-20180204-FD			
440-202717-1	Chromium	13	12	8 (≤50)	-	-

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SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		ES-29-20180217*	ES-29-20180217-FD*			
440-203773-1	Calcium	470	460	2 (≤30)	-	-
	Magnesium	230	240	4 (≤30)	-	-
	Potassium	31	31	0 (≤30)	-	-
	Sodium	1000	1000	0 (≤30)	-	-

SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		ES-16-20.0-20180228	ES-16-20.0-20180228-FD			
440-204592-1	Chromium	12	14	15 (≤50)	-	-

SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		ES-16-80.0-20180228	ES-16-80.0-20180228-FD			
440-204592-1	Chromium	6.2	9.6	43 (≤50)	-	-

SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		ES-27-20.0-20180307	ES-27-20.0-20180307-FD			
440-205338-1	Chromium	10	9.0	11 (≤50)	-	-

SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		ES-27-80.0-20180307	ES-27-80.0-20180307-FD			
440-205338-1	Chromium	21	22	5 (≤50)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		MCF-03A-20180327*	MCF-03A-20180327-FD*			
440-207301-1	Calcium	61	61	0 (≤30)	-	-
	Magnesium	25	25	0 (≤30)	-	-

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SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		MCF-03A-20180327*	MCF-03A-20180327-FD*			
	Potassium	31	31	0 (≤30)	-	-
	Sodium	420	420	0 (≤30)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		ES-3-20180328*	ES-3-20180328-FD*			
440-207464-1	Calcium	310	320	3 (≤30)	-	-
	Magnesium	150	150	0 (≤30)	-	-
440-207464-1	Potassium	10	10	0 (≤30)	-	-
	Sodium	350	360	3 (≤30)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		DMW-9-20180329*	DBMW-9-20180329-FD*			
440-207515-1	Calcium	660	640	3 (≤30)	-	-
	Magnesium	130	120	8 (≤30)	-	-
	Potassium	44	43	2 (≤30)	-	-
	Sodium	240	230	4 (≤30)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		DBMW-18-20180330-FD*	DBMW-18-20180330*			
440-207694-1	Calcium	170	170	0 (≤30)	-	-
	Magnesium	62	62	0 (≤30)	-	-
	Potassium	24	24	0 (≤30)	-	-
	Sodium	110	110	0 (≤30)	-	-

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SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		MCF-16A-20180403*	MCF-16A-20180403-FD*			
440-207962-1	Calcium	220	210	5 (≤30)	-	-
	Magnesium	10000	9900	1 (≤30)	-	-
	Potassium	18000	18000	0 (≤30)	-	-
	Sodium	4300	4200	2 (≤30)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		BEC-5-20180405*	BEC-5-20180405-FD*			
440-208186-1	Calcium	480	450	6 (≤30)	-	-
	Magnesium	270	250	8 (≤30)	-	-
	Potassium	42	39	7 (≤30)	-	-
	Sodium	530	500	6 (≤30)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		BEC-5-20180405^{F}*	BEC-5-20180405-FD^{F}*			
440-208186-1	Chromium	0.021	0.018	15 (≤30)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		ES-31-20180409*	ES-31-20180409-FD*			
440-208388-1	Calcium	660	730	10 (≤30)	-	-
	Magnesium	320	360	12 (≤30)	-	-
	Potassium	81	87	7 (≤30)	-	-
	Sodium	790	870	10 (≤30)	-	-

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Samples appended with “F” were analyzed for dissolved metals

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		DBMW-14-20180410*	DBMW-14-20180410-FD*			
440-208545-1	Calcium	640	610	5 (≤30)	-	-
	Magnesium	260	250	4 (≤30)	-	-
	Potassium	130	120	8 (≤30)	-	-
	Sodium	760	720	5 (≤30)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		DBMW-14-20180410F*	DBMW-14-20180410-FDF*			
440-208545-1	Chromium	0.042	0.042	0 (≤30)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		MW-1-20180411*	MW-1-20180411-FD*			
440-208632-1	Calcium	560	570	2 (≤30)	-	-
	Magnesium	350	360	3 (≤30)	-	-
	Potassium	230	230	0 (≤30)	-	-
	Sodium	650	660	2 (≤30)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		MW-1-20180411F*	MW-1-20180411-FDF*			
440-208632-1	Chromium	0.039	0.037	5 (≤30)	-	-

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SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		ES-6-20180412*	ES-6-20180412-FD*			
440-208783-1	Calcium	350	360	3 (≤30)	-	-
	Magnesium	140	150	7 (≤30)	-	-
	Potassium	30	30	0 (≤30)	-	-
	Sodium	360	360	0 (≤30)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		ES-6-20180412^{F}*	ES-6-20180412-FD^{F}*			
440-208783-1	Chromium	0.019	0.019	0 (≤30)	-	-

SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		NERT4.51S1-40.0-20180613**	NERT4.51S1-40.0-20180613-FD**			
440-213750-1	Chromium	7.8	8.8	12 (≤50)	-	-

SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		NERT5.11S1-70.0-20180616	NERT5.11S1-70.0-20180616-FD			
440-213885-1	Chromium	37	34	8 (≤50)	-	-

SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		NERT5.91S1-70.0-20180617	NERT5.91S1-70.0-20180617-FD			
440-213885-1	Chromium	9.3	13	33 (≤50)	-	-

SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		NERT5.49S1-60.0-20180618	NERT5.49S1-60.0-20180618-FD			
440-213889-1	Chromium	10	13	26 (≤50)	-	-

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SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		NERT4.21N1-70.0-20180619	NERT4.21N1-70.0-20180619-FD			
440-214104-1	Chromium	13	13	0 (≤50)	-	-

SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		NERT4.71S1-40.0-20180626**	NERT4.71S1-40.0-20180626-FD**			
440-214510-1	Chromium	15	11	31 (≤50)	-	-

SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		NERT3.80S1-30.0-20180627	NERT3.80S1-30.0-20180627-FD			
440-214614-1	Chromium	14	17	19 (≤50)	-	-

SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		ES-24-30.0-20180730	ES-24-30.0-20180730-FD			
440-217066-1	Chromium	7.8	7.4	5 (≤50)	-	-

SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		ES-24-60.0-20180731	ES-24-60.0-20180731-FD			
440-217066-1	Chromium	5.2	5.8	11 (≤50)	-	-

SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		ES-22-20.0-20180801**	ES-22-20.0-20180801-FD**			
440-217261-1	Chromium	9.4	11	16 (≤50)	-	-

SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		ES-22-40.0-20180801**	ES-22-40.0-20180801-FD**			
440-217261-1	Chromium	25	31	21 (≤50)	-	-

*Indicates Stage 2A validation
**Indicates Stage 4 validation
Samples appended with “F” were analyzed for dissolved metals

SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		ES-21-30.0-20180806	ES-21-30.0-20180806-FD			
440-217667-1	Chromium	15	16	6 (≤50)	-	-

SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		ES-23-40.0-20180813	ES-23-40.0-20180813-FD			
440-218126-1	Chromium	7.6	8.0	5 (≤50)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		ES-24-20180912*	ES-24-20180912-FD*			
440-219956-1	Calcium	530	510	4 (≤30)	-	-
	Magnesium	1800	1700	6 (≤30)	-	-
	Potassium	1400	1300	7 (≤30)	-	-
440-219956-1	Sodium	3500	340	3 (≤30)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		ES-22A-20181113*	ES-22A-20181113-FD*			
440-224310-1	Calcium	590	570	3 (≤30)	-	-
	Magnesium	200	190	5 (≤30)	-	-
	Potassium	96	92	4 (≤30)	-	-
	Sodium	270	260	4 (≤30)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		ES-22A-20181113^{F*}	ES-22A-20181113-FD^{F*}			
440-224310-1	Chromium	0.0074	0.0069	7 (≤30)	-	-

*Indicates Stage 2A validation
**Indicates Stage 4 validation
Samples appended with “F” were analyzed for dissolved metals

XI. Internal Standards (ICP-MS)

All internal standard percent recoveries (%R) were within QC limits.

Internal standard data were not reviewed for Stage 2A validation.

XII. Sample Result Verification

All sample result verifications were acceptable.

Raw data were not reviewed for Stage 2A or Stage 2B validation.

XIII. Overall Assessment of Data

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

Due to MS/MSD %R and field duplicate RPD, data were qualified as estimated in twenty-one samples.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable. Sample results that were found to be estimated (J) are usable for limited purposes only. Based upon the data validation all other results are considered valid and usable for all purposes.

NERT RI, Phase 3, January through November 2018
Metals - Data Qualification Summary - SDGs 440-199942-1, 440-200132-1, 440-200420-1, 440-200423-1, 440-200635-1, 440-200639-1, 440-201039-1, 440-201044-1, 440-201064-1, 440-201212-1, 440-201216-1, 440-201349-1, 440-201352-1, 440-201461-1, 440-201477-1, 440-201555-1, 440-201557-1, 440-201673-1, 440-201674-1, 440-201758-1, 440-201874-1, 440-201886-1, 440-202372-1, 440-202382-1, 440-202713-1, 440-202717-1, 440-203039-1, 440-203773-1, 440-204592-1, 440-205129-1, 440-205332-1, 440-205338-1, 440-205464-1, 440-205932-1, 440-206198-1, 440-206356-1, 440-207182-1, 440-207301-1, 440-207464-1, 440-207515-1, 440-207694-1, 440-207822-1, 440-207962-1, 440-208071-1, 440-208186-1, 440-208388-1, 440-208545-1, 440-208632-1, 440-208783-1, 440-209011-1, 440-209177-1, 440-209484-1, 440-209565-1, 440-209706-1, 440-209838-1, 440-209951-1, 440-212183-1, 440-213750-1, 440-213885-1, 440-213889-1, 440-214104-1, 440-214222-1, 440-214510-1, 440-214614-1, 440-214705-1, 440-217066-1, 440-217261-1, 440-217667-1, 440-218126-1, 440-218214-1, 440-219806-1, 440-219853-1, 440-219956-1, 440-219961-1, 440-224188-1, 440-224310-1

SDG	Sample	Analyte	Flag	A or P	Reason (Code)
440-201349-1	MCF-24B-20180117* BEC-5-20180117* MCF-32A-20180117* MCF-03B-20180117* MCF-03B-20180117-FD*	Potassium	J+ (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-201874-1	ES-13-80.0-20180123 ES-13-80.0-20180123-FD	Chromium	J (all detects)	A	Field duplicates (RPD) (fd)
440-202717-1	ESB-15-20.0-20180204 ESB-15-20.0-20180204-FD	Chromium	J (all detects)	A	Field duplicates (RPD) (fd)

NERT RI, Phase 3, January through November 2018
Metals - Laboratory Blank Data Qualification Summary - SDGs 440-199942-1, 440-200132-1, 440-200420-1, 440-200423-1, 440-200635-1, 440-200639-1, 440-201039-1, 440-201044-1, 440-201064-1, 440-201212-1, 440-201216-1, 440-201349-1, 440-201352-1, 440-201461-1, 440-201477-1, 440-201555-1, 440-201557-1, 440-201673-1, 440-201674-1, 440-201758-1, 440-201874-1, 440-201886-1, 440-202372-1, 440-202382-1, 440-202713-1, 440-202717-1, 440-203039-1, 440-203773-1, 440-204592-1, 440-205129-1, 440-205332-1, 440-205338-1, 440-205464-1, 440-205932-1, 440-206198-1, 440-206356-1, 440-207182-1, 440-207301-1, 440-207464-1, 440-207515-1, 440-207694-1, 440-207822-1, 440-207962-1, 440-208071-1, 440-208186-1, 440-208388-1, 440-208545-1, 440-208632-1, 440-208783-1, 440-209011-1, 440-209177-1, 440-209484-1, 440-209565-1, 440-209706-1, 440-209838-1, 440-209951-1, 440-212183-1, 440-213750-1, 440-213885-1, 440-213889-1, 440-214104-1, 440-214222-1, 440-214510-1, 440-214614-1, 440-214705-1, 440-217066-1, 440-217261-1, 440-217667-1, 440-218126-1, 440-218214-1, 440-219806-1, 440-219853-1, 440-219956-1, 440-219961-1, 440-224188-1, 440-224310-1

Attachment B

*Indicates Stage 2A validation
**Indicates Stage 4 validation
Samples appended with “F” were analyzed for dissolved metals

No Sample Data Qualified in these SDGs

NERT RI, Phase 3, January through November 2018
Metals - Field Blank Data Qualification Summary – SDGs 440-199942-1, 440-200132-1, 440-200420-1, 440-200423-1, 440-200635-1, 440-200639-1, 440-201039-1, 440-201044-1, 440-201064-1, 440-201212-1, 440-201216-1, 440-201349-1, 440-201352-1, 440-201461-1, 440-201477-1, 440-201555-1, 440-201557-1, 440-201673-1, 440-201674-1, 440-201758-1, 440-201874-1, 440-201886-1, 440-202372-1, 440-202382-1, 440-202713-1, 440-202717-1, 440-203039-1, 440-203773-1, 440-204592-1, 440-205129-1, 440-205332-1, 440-205338-1, 440-205464-1, 440-205932-1, 440-206198-1, 440-206356-1, 440-207182-1, 440-207301-1, 440-207464-1, 440-207515-1, 440-207694-1, 440-207822-1, 440-207962-1, 440-208071-1, 440-208186-1, 440-208388-1, 440-208545-1, 440-208632-1, 440-208783-1, 440-209011-1, 440-209177-1, 440-209484-1, 440-209565-1, 440-209706-1, 440-209838-1, 440-209951-1, 440-212183-1, 440-213750-1, 440-213885-1, 440-213889-1, 440-214104-1, 440-214222-1, 440-214510-1, 440-214614-1, 440-214705-1, 440-217066-1, 440-217261-1, 440-217667-1, 440-218126-1, 440-218214-1, 440-219806-1, 440-219853-1, 440-219956-1, 440-219961-1, 440-224188-1, 440-224310-1

No Sample Data Qualified in these SDGs

*Indicates Stage 2A validation
**Indicates Stage 4 validation
Samples appended with “F” were analyzed for dissolved metals

ATTACHMENT C

Wet Chemistry Data Validation Report

Alkalinity by Standard Method 2320B
Chloride, Nitrate as NO3, and Sulfate by EPA Method 300.0
Chlorate by EPA Method 300.1B
Dissolved Organic Carbon by Standard Method 5310B
Hexavalent Chromium and Dissolved Hexavalent Chromium by EPA Method 218.6
Perchlorate by EPA Method 314.0
pH by EPA SW 846 Method 9040C
Sulfide by EPA SW 846 Method 9034
Total Dissolved Solids by Standard Method 2540C

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
440-201039-1	POD8-20180112*	Nitrate as NO3	109.25 hours	48 hours	J- (all detects)	P
440-201039-1	POD8-20180112-FB*	Nitrate as NO3	108.58 hours	48 hours	R (all non-detects)	P
440-201044-1	ES-2-20180112*	Nitrate as NO3	113.22 hours	48 hours	J- (all detects)	P
440-201216-1	ES-29-20180115*	Nitrate as NO3	51.38 hours	48 hours	J- (all detects)	P
440-202713-1	ES-20-20180204*	Nitrate as NO3	58.77 hours	48 hours	J- (all detects)	P
440-203773-1	ES-29-20180217*	Nitrate as NO3	84.82 hours	48 hours	J- (all detects)	P
440-203773-1	ES-29-20180217-FD*	Nitrate as NO3	85.87 hours	48 hours	J- (all detects)	P
440-203773-1	ES-8B-20180217*	Nitrate as NO3	78.55 hours	48 hours	J- (all detects)	P
440-203773-1	ES-8A-20180218*	Nitrate as NO3	60.73 hours	48 hours	J- (all detects)	P
440-205129-1	ES-7-20180303*	Nitrate as N	104.13 hours	48 hours	J- (all detects)	P
440-205932-1	ES-19-20180313*	Nitrate as NO3	54.18 hours	48 hours	J- (all detects)	P
440-206198-1	ES-26-20180315*	Nitrate as NO3	52.35 hours	48 hours	J- (all detects)	P
440-207182-1	MCF-01A-20180326	pH	145.63 hours	48 hours	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
440-207182-1	MCF-01B-20180326	pH	169.07 hours	48 hours	J (all detects)	P
440-207182-1	ES-01-20180326	pH	168.38 hours	48 hours	J (all detects)	P
440-207182-1	ES-01-20180326-EB	pH	168.30 hours	48 hours	J (all detects)	P
440-207182-1	AA-01-20180326	pH	169.22 hours	48 hours	J (all detects)	P
440-207301-1	AA-27-20180327*	pH	77.35 hours	48 hours	J (all detects)	P
440-207301-1	MCF-27-20180327*	pH	78.27 hours	48 hours	J (all detects)	P
440-207301-1	MCF-03A-20180327*	pH	76.23 hours	48 hours	J (all detects)	P
440-207301-1	MCF-03A-20180327-FD*	pH	76.15 hours	48 hours	J (all detects)	P
440-207301-1	MCF-03B-20180327*	pH	75.30 hours	48 hours	J (all detects)	P
440-207301-1	AA-UW5-20180327*	pH	73.73 hours	48 hours	J (all detects)	P
440-207301-1	AA-UW1-20180327*	pH	78.97 hours	48 hours	J (all detects)	P
440-207301-1	AA-UW2-20180327*	pH	77.92 hours	48 hours	J (all detects)	P
440-207301-1	AA-UW4-20180327*	pH	76.30 hours	48 hours	J (all detects)	P
440-207301-1	MCF-32B-20180327*	pH	73.62 hours	48 hours	J (all detects)	P
440-207301-1	ES-8A-20180327-FB*	pH	72.93 hours	48 hours	J (all detects)	P
440-207301-1	ES-8A-20180327*	pH	72.57 hours	48 hours	J (all detects)	P
440-207464-1	ES-8B-20180328	pH	149.15 hours	48 hours	J (all detects)	P
440-207464-1	MFC-32A-20180328	pH	147.18 hours	48 hours	J (all detects)	P
440-207464-1	HMWWT1-20180328	pH	143.20 hours	48 hours	J (all detects)	P
440-207464-1	ES-3-20180328	pH	144.08 hours	48 hours	J (all detects)	P
440-207464-1	ES-3-20180328-FD	pH	144.00 hours	48 hours	J (all detects)	P

*Indicates Stage 2A validation
**Indicates Stage 4 validation

SDG	Sample	Analyte	Total Time From Sample Collection Until Analysis	Required Holding Time From Sample Collection Until Analysis	Flag	A or P
440-207694-1	MW-11-20180330	pH	125.87 hours	48 hours	J (all detects)	P
440-207694-1	MW-10-20180330	pH	125.00 hours	48 hours	J (all detects)	P
440-207694-1	MW-18-20180330	pH	124.02 hours	48 hours	J (all detects)	P
440-207694-1	MW-5-20180330	pH	122.80 hours	48 hours	J (all detects)	P
440-207694-1	DBMW-22-20180330	pH	121.88 hours	48 hours	J (all detects)	P
440-207694-1	DBMW-13-20180330	pH	125.42 hours	48 hours	J (all detects)	P
440-207694-1	DBMW-15-20180330	pH	124.27 hours	48 hours	J (all detects)	P
440-207694-1	DBMW-16-20180330	pH	122.15 hours	48 hours	J (all detects)	P
440-207694-1	DBMW-18-20180330-FD	pH	121.22 hours	48 hours	J (all detects)	P
440-207694-1	DBMW-18-20180330	pH	121.32 hours	48 hours	J (all detects)	P
440-207822-1	ES-13-20180402*	pH	48.03 hours	48 hours	J (all detects)	P
440-207822-1	ES-12-20180402*	pH	51.52 hours	48 hours	J (all detects)	P
440-207822-1	DBMW-4-20180402*	pH	50.35 hours	48 hours	J (all detects)	P
440-207822-1	DBMW-5-20180402*	pH	49.12 hours	48 hours	J (all detects)	P
440-207822-1	BEC-10-20180402*	pH	48.23 hours	48 hours	J (all detects)	P
440-207822-1	ES-11-20180402*	pH	49.05 hours	48 hours	J (all detects)	P
440-207822-1	ES-10-20180402*	pH	50.45 hours	48 hours	J (all detects)	P
440-207822-1	DBMW-1-20180402*	pH	52.50 hours	48 hours	J (all detects)	P
440-207822-1	DBMW-3-20180402*	pH	51.55 hours	48 hours	J (all detects)	P
440-207962-1	DBMW-8-20180403*	pH	54.52 hours	48 hours	J (all detects)	P
440-207962-1	DBMW-7-20180403*	pH	53.60 hours	48 hours	J (all detects)	P

*Indicates Stage 2A validation
**Indicates Stage 4 validation

SDG	Sample	Analyte	Total Time From Sample Collection Until Analysis	Required Holding Time From Sample Collection Until Analysis	Flag	A or P
440-207962-1	MCF-20A-20180403*	pH	51.00 hours	48 hours	J (all detects)	P
440-207962-1	MCF-05-20180403*	pH	49.33 hours	48 hours	J (all detects)	P
440-207962-1	DBMW-14-20180403*	pH	53.82 hours	48 hours	J (all detects)	P
440-207962-1	DBMW-17-20180403*	pH	52.58 hours	48 hours	J (all detects)	P
440-207962-1	MCF-07-20180403*	pH	51.05 hours	48 hours	J (all detects)	P
440-207962-1	AA-07-20180403*	pH	50.27 hours	48 hours	J (all detects)	P
440-207962-1	MCF-16A-20180403*	pH	48.22 hours	48 hours	J (all detects)	P
440-207962-1	MCF-16A-20180403-FD*	pH	48.13 hours	48 hours	J (all detects)	P
440-208071-1	ES-2-20180404*	pH	101.42 hours	48 hours	J (all detects)	P
440-208071-1	POU3-20180404*	pH	100.57 hours	48 hours	J (all detects)	P
440-208071-1	ES-4-20180404*	pH	99.53 hours	48 hours	J (all detects)	P
440-208071-1	ES-4-20180404-EB*	pH	99.45 hours	48 hours	J (all detects)	P
440-208071-1	ES-4-20180404-FB*	pH	99.40 hours	48 hours	J (all detects)	P
440-208071-1	POD8-20180404*	pH	102.60 hours	48 hours	J (all detects)	P
440-208071-1	MCF-16B-20180404*	pH	101.28 hours	48 hours	J (all detects)	P
440-208071-1	MCF-16C-20180404*	pH	100.23 hours	48 hours	J (all detects)	P
440-208071-1	MCF-24A-20180404*	pH	98.35 hours	48 hours	J (all detects)	P
440-208186-1	ES-5-20180405*	pH	104.42 hours	48 hours	J (all detects)	P
440-208186-1	AA-09-20180405*	pH	77.78 hours	48 hours	J (all detects)	P
440-208186-1	MCF-09A-20180405*	pH	76.73 hours	48 hours	J (all detects)	P
440-208186-1	MCF-09B-20180405*	pH	101.63 hours	48 hours	J (all detects)	P

*Indicates Stage 2A validation
**Indicates Stage 4 validation

SDG	Sample	Analyte	Total Time From Sample Collection Until Analysis	Required Holding Time From Sample Collection Until Analysis	Flag	A or P
440-208186-1	MW-4-20180405*	pH	75.00 hours	48 hours	J (all detects)	P
440-208186-1	BEC-12-20180405*	pH	72.75 hours	48 hours	J (all detects)	P
440-208186-1	BEC-12-20180405-EB*	pH	73.63 hours	48 hours	J (all detects)	P
440-208186-1	BEC-7-20180405*	pH	76.22 hours	48 hours	J (all detects)	P
440-208186-1	MCF-24B-20180405*	pH	104.52 hours	48 hours	J (all detects)	P
440-208186-1	BEC-9-20180405*	pH	77.22 hours	48 hours	J (all detects)	P
440-208186-1	BEC-5-20180405*	pH	78.25 hours	48 hours	J (all detects)	P
440-208186-1	BEC-5-20180405-FD*	pH	78.33 hours	48 hours	J (all detects)	P
440-208388-1	MCF-06A-R-20180409*	pH	50.77 hours	48 hours	J (all detects)	P
440-208388-1	ES-28-20180409*	pH	48.15 hours	48 hours	J (all detects)	P
440-208388-1	ES-30-20180409*	pH	49.70 hours	48 hours	J (all detects)	P
440-208388-1	ES-31-20180409*	pH	51.07 hours	48 hours	J (all detects)	P
440-208388-1	ES-31-20180409-FD*	pH	50.98 hours	48 hours	J (all detects)	P
440-208545-1	DBMW-14-20180410*	pH	56.02 hours	48 hours	J (all detects)	P
440-208545-1	DBMW-14-20180410-FD*	pH	55.93 hours	48 hours	J (all detects)	P
440-208545-1	AA-26-20180410*	pH	56.70 hours	48 hours	J (all detects)	P
440-208545-1	MCF-07-20180410*	pH	54.32 hours	48 hours	J (all detects)	P
440-208545-1	AA-07-20180410*	pH	53.12 hours	48 hours	J (all detects)	P
440-208545-1	POD5-R-20180410-FB*	pH	54.48 hours	48 hours	J (all detects)	P
440-208545-1	ES-19-20180410*	pH	51.95 hours	48 hours	J (all detects)	P
440-208545-1	ES-20-20180410	pH	50.20 hours	48 hours	J (all detects)	P

*Indicates Stage 2A validation
**Indicates Stage 4 validation

SDG	Sample	Analyte	Total Time From Sample Collection Until Analysis	Required Holding Time From Sample Collection Until Analysis	Flag	A or P
440-208545-1	ES-20-20180410-EB*	pH	50.28 hours	48 hours	J (all detects)	P
440-208545-1	MW-04-20180410*	pH	51.07 hours	48 hours	J (all detects)	P
440-208545-1	MW-05-20180410*	pH	50.53 hours	48 hours	J (all detects)	P
440-208632-1	ES-27-20180411*	pH	102.77 hours	48 hours	J (all detects)	P
440-208632-1	ES-27-20180411*	Hexavalent chromium	25.70 hours	24 hours	J- (all detects)	P
440-208632-1	ES-26-20180411*	pH	101.85 hours	48 hours	J (all detects)	P
440-208632-1	ES-25A-20180411*	pH	100.65 hours	48 hours	J (all detects)	P
440-208632-1	ES-25B-20180411*	pH	99.90 hours	48 hours	J (all detects)	P
440-208632-1	MW-10-20180411*	pH	96.48 hours	48 hours	J (all detects)	P
440-208632-1	MW-11-20180411*	pH	97.62 hours	48 hours	J (all detects)	P
440-208632-1	MW-1-20180411*	pH	102.90 hours	48 hours	J (all detects)	P
440-208632-1	MW-1-20180411-FD*	pH	102.82 hours	48 hours	J (all detects)	P
440-208632-1	MW-2-20180411*	pH	104.15 hours	48 hours	J (all detects)	P
440-208632-1	DBMW-22-20180411*	pH	100.30 hours	48 hours	J (all detects)	P
440-208783-1	DM-1-20180412*	pH	76.62 hours	48 hours	J (all detects)	P
440-208783-1	MCF-06C-20180412*	pH	79.78 hours	48 hours	J (all detects)	P
440-208783-1	ES-7-20180412*	pH	78.67 hours	48 hours	J (all detects)	P
440-208783-1	ES-32-20180412*	pH	77.53 hours	48 hours	J (all detects)	P
440-208783-1	MW-18-20180412*	pH	79.40 hours	48 hours	J (all detects)	P
440-208783-1	MCF-11-20180412*	pH	77.78 hours	48 hours	J (all detects)	P
440-208783-1	ES-6-20180412*	pH	77.15 hours	48 hours	J (all detects)	P

*Indicates Stage 2A validation
**Indicates Stage 4 validation

SDG	Sample	Analyte	Total Time From Sample Collection Until Analysis	Required Holding Time From Sample Collection Until Analysis	Flag	A or P
440-208783-1	POD7-R-20180412*	pH	76.00 hours	48 hours	J (all detects)	P
440-208783-1	HMW-18-20180412*	pH	74.97 hours	48 hours	J (all detects)	P
440-208783-1	ES-6-20180412-FD*	pH	77.07 hours	48 hours	J (all detects)	P
440-208783-1	HMW-18-20180412-EB*	pH	73.95 hours	48 hours	J (all detects)	P
440-209011-1	ES-15-20180416*	pH	48.68 hours	48 hours	J (all detects)	P
440-209177-1	ES-9-20180417*	pH	55.30 hours	48 hours	J (all detects)	P
440-209177-1	ES-14b-20180417*	pH	52.12 hours	48 hours	J (all detects)	P
440-209706-1	MW-23-20180424*	pH	58.43 hours	48 hours	J (all detects)	P
440-209706-1	MW-12-20180424	pH	57.60 hours	48 hours	J (all detects)	P
440-209706-1	MW-25-20180424*	pH	56.92 hours	48 hours	J (all detects)	P
440-209706-1	MW-21-R-20180424*	pH	54.80 hours	48 hours	J (all detects)	P
440-209706-1	MW-15-20180424*	pH	51.52 hours	48 hours	J (all detects)	P
440-209838-1	PC-172D-20180425*	pH	101.60 hours	48 hours	J (all detects)	P
440-209838-1	PC-168-20180425*	pH	100.88 hours	48 hours	J (all detects)	P
440-209838-1	PC-176-20180425*	pH	99.63 hours	48 hours	J (all detects)	P
440-209838-1	MW-20-20180425*	pH	97.10 hours	48 hours	J (all detects)	P
440-209951-1	MCF-06B-0180426*	pH	76.23 hours	48 hours	J (all detects)	P
440-209951-1	HMWWT6-20180426*	pH	75.08 hours	48 hours	J (all detects)	P
440-209951-1	MW-19-20180426*	pH	73.52 hours	48 hours	J (all detects)	P
440-212183-1	ES-18-20180524*	pH	75.20 hours	48 hours	J (all detects)	P
440-212183-1	ES-16-20180524*	pH	74.15 hours	48 hours	J (all detects)	P

*Indicates Stage 2A validation
**Indicates Stage 4 validation

SDG	Sample	Analyte	Total Time From Sample Collection Until Analysis	Required Holding Time From Sample Collection Until Analysis	Flag	A or P
440-212183-1	ES-14a-20180524*	pH	73.35 hours	48 hours	J (all detects)	P
440-212183-1	ES-17-20180524*	pH	71.15 hours	48 hours	J (all detects)	P
440-224310-1	ES-24-20181113*	Nitrate as NO3	59 hours	48 hours	UJ (all non-detects)	P
440-224310-1	ES-23B-20181113*	Nitrate as NO3	58 hours	48 hours	UJ (all non-detects)	P
440-224310-1	ES-23A-20181113* ES-22A-20181113-FD*	Nitrate as NO3	57 hours	48 hours	J- (all detects)	P
440-224310-1	ES-22A-20181113*	Nitrate as NO3	56 hours	48 hours	J- (all detects)	P

II. Initial Calibration

All criteria for the initial calibration of each method were met.

Initial calibration data were not reviewed for Stage 2A validation.

III. Continuing Calibration

Continuing calibration frequency and analysis criteria were met for each method when applicable with the following exceptions:

SDG	Date	Lab. Reference/ID	Analyte	%R (Limits)	Associated Samples	Flag	A or P
440-202717-1	02/15/18	CCV (21:54)	Perchlorate	118 (85-115)	ESB-15-120.0-20180204 ESB-15-130.0-20180204 ESB-15-140.0-20180205 ESB-15-150.0-20180205	NA	-
440-203772-1	03/01/18	CCV (00:19)	Perchlorate	122 (85-115)	ESB-14-80.0-20180218 ESB-14-90.0-20180218 ESB-14-100.0-20180218 ESB-14-110.0-20180218 ESB-14-120.0-20180218 ESB-14-130.0-20180218 ESB-14-140.0-20180218 ESB-14-150.0-20180218	NA	-

SDG	Date	Lab. Reference/ID	Analyte	%R (Limits)	Associated Samples	Flag	A or P
440-206485-1	04/05/18	CCV (20:54)	Perchlorate	118 (85-115)	ESB-15-80.0-20180320 ESB-15-80.0-20180320-FD ESB-15-90.0-20180320 ESB-15-100.0-20180320 ESB-15-110.0-20180320	NA	-
440-213889-1	06/21/18	CCV (19:32)	Perchlorate	122 (85-115)	NERT5.49S1-20.0-20180618 NERT5.49S1-30.0-20180618 NERT5.49S1-40.0-20180618 NERT5.49S1-80.0-20180618 NERT5.49S1-90.0-20180618	NA	-

Continuing calibration data were not reviewed for Stage 2A validation.

IV. Laboratory Blanks

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

SDG	Blank ID	Analyte	Maximum Concentration	Associated Samples
440-201349-1	PB (prep blank)	Perchlorate	1.12 ug/L	MCF-24B-20180117-FB* BEC-5-20180117* MCF-32A-20180117* MCF-03A-20180117*
440-202382-1	ICB/CCB	Perchlorate	2.38 ug/L	ES-20-10.0-20180130 ES-20-20.0-20180130 ES-20-20.0-20180130-FD ES-20-30.0-20180130 ES-20-40.0-20180130 ES-20-50.0-20180130 ES-20-60.0-20180130 ES-20-70.0-20180130 ES-20-80.0-20180130 ES-20-80.0-20180130-FD ES-20-90.0-20180130 ES-20-100.0-20180130 ES-20-110.0-20180130
440-204533-1	ICB/CCB	Perchlorate	0.675 ug/L	ESB-18-30.0-20180227** ESB-18-50.0-20180227** ESB-18-60.0-20180227** ESB-18-80.0-20180227** ESB-18-90.0-20180227** ESB-18-100.0-20180227** ESB-18-110.0-20180227** ESB-18-120.0-20180227** ESB-18-130.0-20180227** ESB-18-140.0-20180227** ESB-18-150.0-20180227**
440-214510-1	ICB/CCB	Perchlorate	0.947 ug/L	NERT4.71S1-70.0-20180626**

*Indicates Stage 2A validation
**Indicates Stage 4 validation

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.

V. Field Blanks

Samples BEC-7-20180116-EB* (from SDG 440-201212-1), BEC-5-20180117-EB* (from SDG 440-201349-1), BEC-10-20180118-EB* (from SDG 440-201477-1), DBMW-3-20180119-EB* (from SDG 440-201555-1), DBMW-15-20180123-EB*, DBMW-7-20180123-EB* (both from SDG 440-201758-1), ES-01-20180326-EB* (from SDG 440-207182-1), DBMW-10-20180329-EB* (from SDG 440-207515-1), ES-4-20180404-EB* (from SDG 440-208071-1), BEC-12-20180405-EB* (from SDG 440-208186-1), ES-20-20180410-EB* (from SDG 440-208545-1), HMW-18-20180412-EB* (from SDG 440-208783-1), and ES-22B-20180912-EB* (from SDG 440-219961-1) were identified as equipment blanks. No contaminants were found with the following exceptions:

SDG	Blank ID	Collection Date	Analyte	Concentration	Associated Samples
440-201349-1	BEC-5-20180117-EB*	01/17/18	Sulfate	0.94 mg/L	BEC-5-20180117*
440-201758-1	DBMW-7-20180123-EB	01/23/18	Sulfate	0.53 mg/L	DBMW-7-20180123*
440-208783-1	HMW-18-20180412-EB	04/12/18	Perchlorate	0.48 ug/L	HMW-18-20180412
440-219961-1	ES-22B-20180912-EB*	09/12/18	Perchlorate	2.7 ug/L	ES-22B-20180912*

Samples POD8-20180112-FB* (from SDG 440-201039-1), MCF-24A-20180116-FB* (from SDG 440-201212-1), MCF-24B-20180117-FB* (from SDG 440-201349-1), MCF-16B-20180118-FB* (from SDG 440-201477-1), MCF-05-20180119-FB* (from SDG 440-201555-1), DBMW-13-20180123-FB* (from SDG 440-201758-1), ES-8A-20180327-FB* (from SDG 440-207301-1), ES-4-20180404-FB* (from SDG 440-208071-1), and POD5-R-20180410-FB* (from SDG 440-208545-1) were identified as field blanks. No contaminants were found.

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.

VI. Surrogates

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

VII. 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
440-198541-1	ES-4-110.0-20171213MS/MSD** (ES-4-110.0-20171213** ES-4-120.0-20171213** ES-3-10.0-20171212** ES-3-20.0-20171212** ES-3-30.0-20171212** ES-3-40.0-20171212** ES-3-50.0-20171212** ES-3-60.0-20171212** ES-3-70.0-20171212** ES-3-80.0-20171212** ES-3-90.0-20171212** ES-3-100.0-20171212** ES-3-110.0-20171212** ES-3-120.0-20171212** ES-3-50.0-20171212-FD** ES-4-10.0-20171212** ES-4-20.0-20171212** ES-4-30.0-20171212** ES-4-40.0-20171212** ES-4-50.0-20171212**)	Perchlorate	63 (80-120)	62 (80-120)	J- (all detects) UJ (all non-detects)	A
440-198663-1	ES-2-40.0-20171214MS/MSD (All samples in SDG 440-198663-1)	Chlorate	136 (75-125)	140 (75-125)	J+ (all detects)	A
440-198772-1	ESB-6-40.0-20171217MS/MSD (ESB-5-10.0-20171216 ESB-5-20.0-20171216 ESB-5-20.0-20171216-FD ESB-5-30.0-20171216 ESB-5-40.0-20171216 ESB-6-40.0-20171217 ESB-6-90.0-20171217 ESB-6-100.0-20171217 ESB-6-110.0-20171217 ESB-6-120.0-20171218)	Perchlorate	74 (80-120)	79 (80-120)	J- (all detects) UJ (all non-detects)	A
440-198772-1	ESB-3-40.0-20171217MS/MSD (ESB-2-100.0-20171216 ESB-3-40.0-20171217)	Perchlorate	-	128 (80-120)	J+ (all detects)	A
440-198772-1	ESB-3-40.0-20171217MS/MSD (ESB-3-120.0-20171217)	Perchlorate	-	128 (80-120)	NA	-

*Indicates Stage 2A validation
**Indicates Stage 4 validation

SDG	Spike ID (Associated Samples)	Analyte	MS (%R) (Limits)	MSD (%R) (Limits)	Flag	A or P
440-198964-1	ESB-5-20.0-20171218MS/MSD (ESB-5-10.0-20171218 ESB-5-20.0-20171218 ESB-5-30.0-20171218 ESB-5-40.0-20171218 ESB-5-50.0-20171218 ESB-5-60.0-20171218 ESB-5-70.0-20171218 ESB-5-80.0-20171218 ESB-5-90.0-20171219 ESB-5-100.0-20171219 ESB-5-110.0-20171219 ESB-5-120.0-20171219 ESB-4-10.0-20171218 ESB-4-20.0-20171218 ESB-4-30.0-20171218 ESB-4-40.0-20171218 ESB-4-50.0-20171218 ESB-4-60.0-20171218 ESB-4-70.0-20171218 ESB-4-80.0-20171218)	Chlorate	-	73 (75-125)	J- (all detects) UJ (all non-detects)	A
440-198964-1	ESB-4-40.0-20171218MS/MSD (ESB-5-10.0-20171218 ESB-5-20.0-20171218 ESB-5-30.0-20171218 ESB-5-40.0-20171218 ESB-5-50.0-20171218 ESB-5-60.0-20171218 ESB-5-70.0-20171218 ESB-5-80.0-20171218 ESB-5-90.0-20171219 ESB-5-100.0-20171219 ESB-5-110.0-20171219 ESB-5-120.0-20171219 ESB-4-10.0-20171218 ESB-4-20.0-20171218 ESB-4-30.0-20171218 ESB-4-40.0-20171218 ESB-4-50.0-20171218 ESB-4-60.0-20171218 ESB-4-70.0-20171218 ESB-4-80.0-20171218)	Chlorate	65 (75-125)	-	J- (all detects) UJ (all non-detects)	A
440-198964-1	ESB-1-10.0-20171220MS/MSD (ESB-1-10.0-20171220)	Perchlorate	-	76 (80-120)	J- (all detects)	A
440-199067-1	ESB-7-80.0-20171220MS/MSD (ESB-7-80.0-20171220 ESB-7-80.0-20171220-FD)	Perchlorate	30 (80-120)	42 (80-120)	UJ (all non-detects)	A
440-199609-1	ES-30-80.0-20180103-FDMS/MSD (ES-30-60.0-20180103 ES-30-70.0-20180103 ES-30-80.0-20180103 ES-30-80.0-20180103-FD)	Chlorate	-	68 (75-125)	J- (all detects)	A

SDG	Spike ID (Associated Samples)	Analyte	MS (%R) (Limits)	MSD (%R) (Limits)	Flag	A or P
440-199609-1	ES-6-40.0-20180102MS/MSD (ES-6-10.0-20180102 ES-6-20.0-20180102 ES-6-20.0-20180102-FD ES-6-30.0-20180102 ES-6-40.0-20180102 ES-6-50.0-20180102 ES-6-60.0-20180102 ES-6-70.0-20180102 ES-6-80.0-20180102 ES-6-80.0-20180102-FD ES-6-90.0-20180103 ES-30-10.0-20180102 ES-30-20.0-20180102 ES-30-20.0-20180102-FD ES-30-30.0-20180103 ES-30-40.0-20180103 ES-30-50.0-20180103)	Perchlorate	143 (80-120)	174 (80-120)	J+ (all detects)	A
440-199609-1	ES-6-40.0-20180102MS/MSD (ES-6-100.0-20180103 ES-6-110.0-20180103 ES-6-120.0-20180103)	Perchlorate	143 (80-120)	174 (80-120)	NA	-
440-199947-1	ES-7-40.0-20180108MS/MSD (ES-7-10.0-20180107 ES-7-20.0-20180107 ES-7-30.0-20180107 ES-7-40.0-20180108 ES-7-50.0-20180108 ES-7-60.0-20180108 ES-7-70.0-20180108 ES-7-80.0-20180108)	Perchlorate	198 (80-120)	180 (80-120)	J+ (all detects)	A
440-199947-1	ES-7-40.0-20180108MS/MSD (ES-28-100.0-20180107 ES-28-110.0-20180107 ES-28-120.0-20180107 ES-7-90.0-20180108 ES-7-100.0-20180108 ES-7-110.0-20180108 ES-7-120.0-20180108)	Perchlorate	198 (80-120)	180 (80-120)	NA	-
440-200133-1	ES-1-10.0-20180108MS/MSD (All samples in SDG 440-200133-1)	Perchlorate	73 (80-120)	-	J- (all detects)	A
440-200133-1	ES-1-80.0-20180108-FDMS/MSD (ES-1-80.0-20180108-FD)	Chlorate	-	149 (75-125)	J+ (all detects)	A

*Indicates Stage 2A validation
**Indicates Stage 4 validation

SDG	Spike ID (Associated Samples)	Analyte	MS (%R) (Limits)	MSD (%R) (Limits)	Flag	A or P
440-200723-1	ESB-9-10.0-20180110MS/MSD (ESB-9-10.0-20180110 ESB-9-20.0-20180110 ESB-9-20.0-20180110-FD ESB-9-30.0-20180110 ESB-9-37.5-20180110 ESB-9-50.0-20180110 ESB-9-60.0-20180110 ESB-9-70.0-20180110 ESB-9-80.0-20180110 ESB-9-80.0-20180110-FD ESB-9-90.0-20180110 ESB-9-100.0-20180110 ESB-9-110.0-20180110 ESB-9-120.0-20180110 ESB-9-130.0-20180111 ESB-9-140.0-20180111 ESB-9-150.0-20180111 ESB-8-10.0-20180110 ESB-8-20.0-20180110 ESB-8-20.0-20180110-FD)	Perchlorate	79 (80-120)	-	J- (all detects) UJ (all non-detects)	A
440-201352-1	EBS-13-40.0-20180116MS/MSD (All samples in SDG 440-201352-1)	Perchlorate	51 (80-120)	35 (80-120)	J- (all detects) UJ (all non-detects)	A
440-201555-1	ES-5-20180118MS/MSD (DBMW-1-20180119-FD*)	Nitrate as NO3	139 (80-120)	137 (80-120)	J+ (all detects)	A
440-201557-1	ES-5-20180118MS/MSD (All samples in SDG 440-201557-1)	Nitrate as NO3	139 (80-120)	137 (80-120)	J+ (all detects)	A
440-201874-1	ES-13-40.0-20180123MS/MSD (All samples in SDG 440-201874-1)	Perchlorate	-	77 (80-120)	J- (all detects) UJ (all non-detects)	A
440-202382-1	ES-20-40.0-20180130MS/MSD (ES-20-10.0-20180130 ES-20-20.0-20180130 ES-20-20.0-20180130-FD ES-20-30.0-20180130 ES-20-40.0-20180130 ES-20-50.0-20180130 ES-20-60.0-20180130 ES-20-70.0-20180130 ES-20-80.0-20180130 ES-20-80.0-20180130-FD ES-20-90.0-20180130 ES-20-100.0-20180130 ES-20-110.0-20180130 ES-20-120.0-20180131 ES-20-130.0-20180131 ES-20-140.0-20180131 ES-20-150.0-20180131 ES-20-160.0-20180131 ES-20-170.0-20180131 ES-20-180.0-20180131)	Perchlorate	60 (80-120)	76 (80-120)	UJ (all non-detects)	A

*Indicates Stage 2A validation
**Indicates Stage 4 validation

SDG	Spike ID (Associated Samples)	Analyte	MS (%R) (Limits)	MSD (%R) (Limits)	Flag	A or P
440-202382-1	ES-20-200.0-20180131MS/MSD (ES-20-190.0-20180131 ES-20-200.0-20180131)	Perchlorate	62 (80-120)	63 (80-120)	UJ (all non-detects)	A
440-202717-1	ESB-15-60.0-20180204MS/MSD (ESB-15-10.0-20180204 ESB-15-20.0-20180204 ESB-15-20.0-20180204-FD ESB-15-30.0-20180204 ESB-15-40.0-20180204 ESB-15-50.0-20180204 ESB-15-60.0-20180204 ESB-15-70.0-20180204 ESB-15-80.0-20180204 ESB-15-80.0-20180204-FD ESB-15-90.0-20180204 ESB-15-100.0-20180204 ESB-15-110.0-20180204 ESB-15-130.0-20180204 ESB-15-140.0-20180205 ESB-15-150.0-20180205)	Chlorate	31 (75-125)	-	J- (all detects) UJ (all non-detects)	A
440-203681-1	ES-14-40.0-20180217MS/MSD (ES-10-70.0-20180216 ES-10-80.0-20180216 ES-10-90.0-20180216 ES-10-100.0-20180216 ES-10-110.0-20180216 ES-10-120.0-20180216)	Perchlorate	76 (80-120)	-	UJ (all non-detects)	A
440-203772-1	ES-14-40.0-20180217MS/MSD (ES-14-10.0-20180217 ES-14-20.0-20180217 ES-14-30.0-20180217 ES-14-40.0-20180217 ES-14-50.0-20180217 ES-14-60.0-20180217 ES-14-70.0-20180217 ES-14-80.0-20180217 ES-14-90.0-20180217 ES-14-100.0-20180218 ES-14-110.0-20180218 ES-14-120.0-20180218 ESB-14-10.0-20180217 ESB-14-20.0-20180217)	Perchlorate	76 (80-120)	-	J- (all detects) UJ (all non-detects)	A
440-203772-1	ESB-14-70.0-20180218MS/MSD (ESB-14-70.0-20180218 ES-11-90.0-20180219)	Perchlorate	-	131 (80-120)	NA	-
440-203943-1	ESB-16-60.0-20180221MS/MSD (ESB-16-60.0-20180221)	Chlorate	-	72 (75-125)	J- (all detects)	A

SDG	Spike ID (Associated Samples)	Analyte	MS (%R) (Limits)	MSD (%R) (Limits)	Flag	A or P
440-203943-1	ES-9-40.0-20180220MS/MSD (ES-9-10.0-20180220 ES-9-20.0-20180220 ES-9-20.0-20180220-FD ES-9-30.0-20180220 ES-9-40.0-20180220 ES-9-50.0-20180220)	Perchlorate	-	133 (80-120)	J+ (all detects)	A
440-203943-1	ESB-16-40.0-20180221MS/MSD (ES-9-60.0-20180220 ES-9-70.0-20180220 ES-9-80.0-20180220 ES-9-80.0-20180220-FD ES-9-90.0-20180220 ES-9-100.0-20180220 ES-9-110.0-20180220 ES-9-120.0-20180220 ESB-16-10.0-20180220 ESB-16-20.0-20180220 ESB-16-20.0-20180220-FD ESB-16-30.0-20180220 ESB-16-40.0-20180221 ESB-16-50.0-20180221 ESB-16-60.0-20180221 ESB-16-70.0-20180221 ESB-16-90.0-20180221 ESB-16-90.0-20180221-FD ESB-16-80.0-20180221 ESB-16-100.0-20180221)	Perchlorate	-	64 (80-120)	J- (all detects) UJ (all non-detects)	A
440-204533-1	ESB-18-40.0-20180227MS/MSD** (ESB-18-20.0-20180227** ESB-18-20.0-20180227-FD** ESB-18-30.0-20180227** ESB-18-40.0-20180227** ESB-18-50.0-20180227** ESB-18-60.0-20180227** ESB-18-70.0-20180227**)	Perchlorate	-	139 (80-120)	J+ (all detects)	A
440-204533-1	ESB-18-40.0-20180227MS/MSD** (ESB-18-10.0-20180227** ESB-18-80.0-20180227** ESB-18-80.0-20180227-FD** ESB-18-90.0-20180227** ESB-18-100.0-20180227** ESB-18-110.0-20180227** ESB-18-120.0-20180227** ESB-18-130.0-20180227** ESB-18-140.0-20180227** ESB-18-150.0-20180227**)	Perchlorate	-	139 (80-120)	NA	-
440-204537-1	ESB-17-40.0-20180227MS/MSD (ESB-17-40.0-20180227)	Chlorate	73 (75-125)	65 (75-125)	J- (all detects)	A

*Indicates Stage 2A validation
**Indicates Stage 4 validation

SDG	Spike ID (Associated Samples)	Analyte	MS (%R) (Limits)	MSD (%R) (Limits)	Flag	A or P
440-204537-1	ESB-17-40.0-20180227MS/MSD (ESB-17-10.0-20180227 ESB-17-20.0-20180227 ESB-17-30.0-20180227 ESB-17-40.0-20180227 ESB-17-50.0-20180227 ESB-17-60.0-20180227 ESB-17-70.0-20180227 ESB-17-80.0-20180227 ESB-17-90.0-20180227 ESB-17-100.0-20180227 ESB-17-110.0-20180227 ESB-17-120.0-20180227 ESB-17-130.0-20180227)	Perchlorate	77 (80-120)	72 (80-120)	J- (all detects) UJ (all non-detects)	A
440-204537-1	ESB-17-150.0-20180227MS/MSD (ESB-17-140.0-20180227 ESB-17-150.0-20180227)	Perchlorate	41 (80-120)	35 (80-120)	UJ (all non-detects)	A
440-204592-1	ES-19-40.0-20180228MS/MSD (ES-16-10.0-20180228 ES-16-20.0-20180228 ES-16-20.0-20180228-FD ES-16-30.0-20180228 ES-16-40.0-20180228 ES-16-50.0-20180228 ES-16-60.0-20180228 ES-16-70.0-20180228 ES-16-80.0-20180228 ES-16-80.0-20180228-FD ES-16-90.0-20180228 ES-16-100.0-20180228 ES-19-10.0-20180228 ES-19-20.0-20180228 ES-19-30.0-20180228 ES-19-40.0-20180228 ES-19-50.0-20180228 ES-19-60.0-20180228 ES-19-70.0-20180228 ES-19-80.0-20180228)	Perchlorate	59 (80-120)	64 (80-120)	J- (all detects) UJ (all non-detects)	A
440-204592-1	ES-19-110.0-20180228MS/MSD (ES-19-90.0-20180228 ES-19-100.0-20180228 ES-19-110.0-20180228 ES-19-120.0-20180301 ES-19-130.0-20180301 ES-19-140.0-20180301 ES-19-150.0-20180301 ES-19-160.0-20180301 ES-19-170.0-20180301 ES-19-180.0-20180301 ES-19-190.0-20180301 ES-19-200.0-20180301 ES-16-110.0-20180228 ES-16-120.0-20180301)	Perchlorate	34 (80-120)	38 (80-120)	J- (all detects) UJ (all non-detects)	A
440-204730-1	ES-18-40.0-20180302MS/MSD (ES-18-40.0-20180302)	Chlorate	-	46 (75-125)	J- (all detects)	A

SDG	Spike ID (Associated Samples)	Analyte	MS (%R) (Limits)	MSD (%R) (Limits)	Flag	A or P
440-204730-1	ES-18-40.0-20180302MS/MSD (ES-18-10.0-20180302 ES-18-20.0-20180302 ES-18-20.0-20180302-FD ES-18-40.0-20180302 ES-18-50.0-20180302 ES-18-60.0-20180302)	Perchlorate	1129 (80-120)	-	J+ (all detects)	A
440-204730-1	ES-18-40.0-20180302MS/MSD (ES-18-30.0-20180302 ES-18-70.0-20180302 ES-18-80.0-20180302 ES-18-80.0-20180302-FD ES-18-90.0-20180302 ES-18-100.0-20180302 ES-18-110.0-20180302 ES-18-120.0-20180302)	Perchlorate	1129 (80-120)	-	NA	-
440-205117-1	ES-26-60.0-20180306MS/MSD (ES-26-60.0-20180306 ES-26-70.0-20180306 ES-26-80.0-20180306 ES-26-80.0-20180306-FD)	Chlorate	143 (75-125)	-	J+ (all detects)	A
440-205117-1	ES-26-60.0-20180306MS/MSD (ES-26-90.0-20180306 ES-26-100.0-20180306 ES-26-110.0-20180306 ES-26-120.0-20180306)	Chlorate	143 (75-125)	-	NA	-
440-205117-1	ES-25B-40.0-20180306MS/MSD (ES-25B-10.0-20180306 ES-25B-20.0-20180306 ES-25B-20.0-20180306-FD ES-25B-30.0-20180306 ES-25B-40.0-20180306 ES-25B-50.0-20180306 ES-25B-60.0-20180306 ES-25B-70.0-20180306 ES-25B-80.0-20180306 ES-25B-80.0-20180306-FD ES-25B-90.0-20180306 ES-25B-100.0-20180306 ES-25B-110.0-20180306 ES-25B-120.0-20180306 ES-26-10.0-20180306 ES-26-20.0-20180306 ES-26-20.0-20180306-FD ES-26-30.0-20180306 ES-26-110.0-20180306 ES-26-120.0-20180306)	Perchlorate	63 (80-120)	71 (80-120)	J- (all detects) UJ (all non-detects)	A
440-205338-1	ES-27-40.0-20180307MS/MSD (All samples in SDG 440-205338-1)	Perchlorate	68 (80-120)	70 (80-120)	UJ (all non-detects)	A

*Indicates Stage 2A validation
**Indicates Stage 4 validation

SDG	Spike ID (Associated Samples)	Analyte	MS (%R) (Limits)	MSD (%R) (Limits)	Flag	A or P
440-206347-1	ESB-10-40.0-20180316MS/MSD (ESB-10-10.0-20180316 ESB-10-20.0-20180316 ESB-10-20.0-20180316-FD ESB-10-30.0-20180316 ESB-10-40.0-20180316 ESB-10-50.0-20180316 ESB-10-60.0-20180316 ESB-10-70.0-20180316 ESB-10-80.0-20180316 ESB-10-80.0-20180316-FD ESB-10-90.0-20180316 ESB-10-100.0-20180316 ESB-10-110.0-20180316 ESB-10-120.0-20180316 ESB-10-130.0-20180316 ESB-10-140.0-20180317 ESB-10-150.0-20180318 ESB-12-10.0-20180318 ESB-12-20.0-20180318 ESB-12-20.0-20180318-FD)	Perchlorate	-	78 (80-120)	J- (all detects) UJ (all non-detects)	A
440-206347-1	ESB-12-40.0-20180318MS/MSD (ESB-12-30.0-20180318 ESB-12-40.0-20180318 ESB-12-50.0-20180318 ESB-12-60.0-20180318 ESB-12-70.0-20180318 ESB-12-80.0-20180318 ESB-12-80.0-20180318-FD ESB-12-100.0-20180318 ESB-12-110.0-20180318 ESB-12-120.0-20180318 ESB-12-130.0-20180318 ESB-12-140.0-20180318 ESB-12-150.0-20180318)	Perchlorate	27 (80-120)	49 (80-120)	J- (all detects) R (all non-detects)	A
440-206347-1	ESB-12-90.0-20180318MS/MSD (ESB-12-90.0-20180318)	Perchlorate	41 (80-120)	55 (80-120)	UJ (all non-detects)	A
440-206485-1	ESB-11-40.0-20180319MS/MSD (ESB-11-10.0-20180319 ESB-11-20.0-20180319 ESB-11-20.0-20180319-FD ESB-11-30.0-20180319 ESB-11-40.0-20180319 ESB-11-50.0-20180319 ESB-11-60.0-20180319 ESB-11-70.0-20180319 ESB-11-80.0-20180319 ESB-11-80.0-20180319-FD ESB-11-90.0-20180319 ESB-11-100.0-20180319 ESB-11-110.0-20180319 ESB-11-120.0-20180319 ESB-11-130.0-20180319)	Perchlorate	-	77 (80-120)	J- (all detects) UJ (all non-detects)	A
440-207464-1	MFC-32A-20180328MS/MSD* (MFC-32A-20180328*)	Perchlorate	123 (80-120)	124 (80-120)	NA	-

*Indicates Stage 2A validation
**Indicates Stage 4 validation

SDG	Spike ID (Associated Samples)	Analyte	MS (%R) (Limits)	MSD (%R) (Limits)	Flag	A or P
440-207515-1	AA-18-20180329MS/MSD* (DMW-9-20180329* DBMW-9-20180329-FD* DBMW-10-20180329* AA-18-20180329* DBMW-12-20180329*)	Nitrate as NO3 Chloride	- -	77 (80-120) 76 (80-120)	J- (all detects) J- (all detects)	A
440-207515-1	AA-18-20180329MS/MSD* (DMW-9-20180329* DBMW-9-20180329-FD* AA-18-20180329* DBMW-12-20180329*)	Sulfate	-	69 (80-120)	J- (all detects)	A
440-207694-1	DBMW-18-20180330-FDMS/MSD* (MW-11-20180330* MW-10-20180330* MW-18-20180330* MW-5-20180330* DBMW-16-20180330* DBMW-18-20180330-FD*)	Perchlorate	125 (80-120)	-	J+ (all detects)	A
440-207962-1	AA-07-20180403MS/MSD* (AA-07-20180403*)	Perchlorate	-	79 (80-120)	J- (all detects)	A
440-208388-1	MCF-06C-20180409MS/MSD* (MCF-06C-20180409* ES-8B-20180409* ES-28-20180409* ES-30-20180409* ES-31-20180409* ES-31-20180409-FD*)	Perchlorate	72 (80-120)	67 (80-120)	J- (all detects)	A
440-208632-1	MW-11-20180411MS/MSD* (MW-10-20180411* MW-11-20180411*)	Nitrate as NO3	-	132 (80-120)	J+ (all detects)	A
440-208632-1	MW-11-20180411MS/MSD* (ES-25B-20180411*)	Nitrate as NO3	-	132 (80-120)	NA	-
440-209177-1	ES-9-20180417MS/MSD* (All samples in SDG 440-209177-1)	Perchlorate	135 (80-120)	137 (80-120)	J+ (all detects)	A
440-209706-1	ES-9-20180417MS/MSD* (MW-23-20180424* MW-12-20180424* MW-25-20180424* MW-15-20180424*)	Perchlorate	135 (80-120)	137 (80-120)	J+ (all detects)	A
440-209706-1	ES-9-20180417MS/MSD* (MW-21-R-20180424*)	Perchlorate	135 (80-120)	137 (80-120)	NA	-

SDG	Spike ID (Associated Samples)	Analyte	MS (%R) (Limits)	MSD (%R) (Limits)	Flag	A or P
440-209838-1	PC-172D-20180425MS/MSD* (PC-172D-20180425* PC-168-20180425* PC-176-20180425*)	Sulfide	64 (70-130)	-	UJ (all non-detects)	A
440-209951-1	MW-19-20180426MS/MSD* (MW-19-20180426*)	Perchlorate	53 (80-120)	57 (80-120)	J- (all detects)	A
440-213750-1	NERT5.49S1-70.0-20180618MS/MSD (All samples in SDG 440-213750-1)	Perchlorate	44 (80-120)	45 (80-120)	J- (all detects)	A
440-213885-1	NERT5.11S1-20.0-20180615MS/MSD (NERT5.11S1-20.0-20180615)	Chlorate	-	132 (75-125)	J+ (all detects)	A
440-213885-1	NERT5.91S1-40.0-20180617MS/MSD (NERT5.91S1-70.0-20180617 NERT5.91S1-70.0-20180617-FD NERT5.91S1-80.0-20180617)	Perchlorate	-2 (80-120)	16 (80-120)	R (all non-detects)	A
440-213885-1	NERT5.91S1-40.0-20180617MS/MSD (NERT5.91S1-40.0-20180617 NERT5.91S1-50.0-20180617 NERT5.91S1-60.0-20180617 NERT5.91S1-90.0-20180617)	Perchlorate	-2 (80-120)	16 (80-120)	J- (all detects)	A
440-213889-1	NERT5.49S1-70.0-20180618MS/MSD (All samples in SDG 440-213889-1)	Perchlorate	44 (80-120)	45 (80-120)	J- (all detects) UJ (all non-detects)	A
440-214104-1	NERT4.21N1-10.0-20180619MS/MSD (All samples in SDG 440-214104-1)	Perchlorate	64 (80-120)	67 (80-120)	J- (all detects) UJ (all non-detects)	A
440-214222-1	NERT4.21N1-10.0-20180619MS/MSD (All samples in SDG 440-214222-1)	Perchlorate	64 (80-120)	67 (80-120)	J- (all detects) UJ (all non-detects)	A
440-214510-1	NERT4.71S1-60.0-20180626MS/MSD** (All samples in SDG 440-214510-1)	Perchlorate	4 (80-120)	10 (80-120)	J- (all detects)	A
440-214705-1	NERT3.80S1-50.0-20180628MS/MSD** (All samples in SDG 440-214705-1)	Perchlorate	77 (80-120)	-	UJ (all non-detects)	A
440-217066-1	ES-24-90.0-20180731MS/MSD (All samples in SDG 440-217066-1)	Perchlorate	56 (80-120)	-	J- (all detects) UJ (all non-detects)	A
440-217261-1	ES-22-120.0-20180801MS**/MSD** (All samples in SDG 440-217261-1)	Chlorate	-	74 (75-125)	J- (all detects) UJ (all non-detects)	A
440-217667-1	ES-21-80.0-20180806MS/MSD (All samples in SDG 440-217667-1)	Chlorate	64 (75-125)	-	J- (all detects) UJ (all non-detects)	A

*Indicates Stage 2A validation
**Indicates Stage 4 validation

SDG	Spike ID (Associated Samples)	Analyte	MS (%R) (Limits)	MSD (%R) (Limits)	Flag	A or P
440-218126-1	ES-23-10.0-20180813MS/MSD (All samples in SDG 440-218126-1)	Chlorate	54 (80-120)	52 (80-120)	J- (all detects) UJ (all non-detects)	A
440-218214-1	ES-23-200.0-201808015MS/MSD (All samples in SDG 440-218214-1)	Chlorate	11 (75-125)	57 (75-125)	J- (all detects)	A
440-218214-1	ES-23-200.0-201808015MS/MSD (All samples in SDG 440-218214-1)	Perchlorate	54 (80-120)	55 (80-120)	UJ (all non-detects)	A

For several MS/MSDs, no data were qualified for Chlorate, Chloride, Nitrate as NO3, Perchlorate and Sulfate 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 with the following exceptions:

SDG	Spike ID (Associated Samples)	Analyte	RPD (Limits)	Flag	A or P
440-199067-1	ESB-7-80.0-20171220MS/MSD (ESB-7-80.0-20171220 ESB-7-80.0-20171220-FD)	Perchlorate	33 (≤20)	UJ (all non-detects)	A
440-202382-1	ES-20-40.0-20180130MS/MSD (ES-20-10.0-20180130 ES-20-20.0-20180130 ES-20-20.0-20180130-FD ES-20-30.0-20180130 ES-20-40.0-20180130 ES-20-50.0-20180130 ES-20-60.0-20180130 ES-20-70.0-20180130 ES-20-80.0-20180130 ES-20-80.0-20180130-FD ES-20-90.0-20180130 ES-20-100.0-20180130 ES-20-110.0-20180130 ES-20-120.0-20180131 ES-20-130.0-20180131 ES-20-140.0-20180131 ES-20-150.0-20180131 ES-20-160.0-20180131 ES-20-170.0-20180131 ES-20-180.0-20180131)	Perchlorate	23 (≤20)	UJ (all non-detects)	A
440-204730-1	ES-18-40.0-20180302MS/MSD (All samples in SDG 440-204730-1)	Perchlorate	123 (≤20)	J (all detects) UJ (all non-detects)	A
440-206347-1	ESB-12-90.0-20180318MS/MSD (ESB-12-90.0-20180318)	Perchlorate	31 (≤20)	UJ (all non-detects)	A
440-217066-1	ES-24-90.0-20180731MS/MSD (All samples in SDG 440-217066-1)	Perchlorate	39 (≤20)	J (all detects) UJ (all non-detects)	A

SDG	Spike ID (Associated Samples)	Analyte	RPD (Limits)	Flag	A or P
440-218214-1	ES-23-200.0-201808015MS/MSD (All samples in SDG 440-218214-1)	Chlorate	37 (≤25)	J (all detects)	A

VIII. Duplicate Sample Analysis

Duplicate (DUP) sample analysis was performed on an associated project sample. Results were within QC limits with the following exceptions:

SDG	DUP ID (Associated Samples)	Analyte	RPD (Limits)	Affected Analyte	Flag	A or P
440-201212-1	MCF-24A-20180116DUP* (MCF-27-20180116* MCF-01A-20180116* MCF-01A-20180116-FD* MCF-11-20180116* BEC-7-20180116* MCF-24A-20180116*)	Alkalinity	42 (≤20)	Bicarbonate ion as HCO3	J (all detects)	A

IX. 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.

X. Field Duplicates

Samples ES-3-50.0-20171212** and ES-3-50.0-20171212-FD** (both from SDG 440-198541-1), samples ES-4-90.0-20171213** and ES-4-90.0-20171213-FD** (both from SDG 440-198541-1), samples ESB-5-20.0-20171216 and ESB-5-20.0-20171216-FD (both from SDG 440-198772-1), samples ESB-5-60.0-20171216 and ESB-5-60.0-20171216-FD (both from SDG 440-198772-1), samples ESB-2-20.0-20171215 and ESB-2-20.0-20171215-FD (both from SDG 440-198772-1), samples ESB-2-80.0-20171216 and ESB-2-80.0-20171216-FD (both from SDG 440-198772-1), samples ESB-3-20.0-20171217 and ESB-3-20.0-20171217-FD (both from SDG 440-198772-1), samples ESB-3-80.0-20171217 and ESB-3-80.0-20171217-FD (both from SDG 440-198772-1), samples ESB-6-20.0-20171217 and ESB-6-20.0-20171217-FD (both from SDG 440-198772-1), samples ESB-6-80.0-20171217 and ESB-6-80.0-20171217-FD (both from SDG 440-198772-1), samples ESB-4-20.0-20171218 and ESB-4-20.0-20171218-FD (both from SDG 440-198964-1), samples ESB-4-80.0-20171218 and ESB-4-80.0-20171218-FD (both from SDG 440-1968964-1), samples ESB-5-20.0-20171218 and ESB-5-20.0-20171218-FD (both from SDG 440-198964-1), samples ESB-5-80.0-20171218 and ESB-5-80.0-20171218-FD (both from SDG 440-198964-1), samples ESB-1-20.0-20171220 and ESB-1-20.0-20171220-FD (both from SDG 440-198964-1), samples ESB-1-80.0-20171220 and ESB-1-80.0-20171220-FD (both from

SDG 440-199067-1), samples ESB-7-20.0-20171220 and ESB-7-20.0-20171220-FD (both from SDG 440-199067-1), samples ESB-7-80.0-20171220 and ESB-7-80.0-20171220-FD (both from SDG 440-199067-1), samples ES-6-20.0-20180102 and ES-6-20.0-20180102-FD (both from SDG 440-199609-1), samples ES-6-80.0-20180102 and ES-6-80.0-20180102-FD (both from SDG 440-199609-1), samples ES-30-20.0-20180102 and ES-30-20.0-20180102-FD (both from SDG 440-199609-1), samples ES-30-80.0-20180103 and ES-30-80.0-20180103-FD (both from SDG 440-199609-1), samples AA-UW2-20180108* and AA-UW2-20180108-FD* (both from SDG 440-199942-1), samples ES-28-20.0-20180106 and ES-28-20.0-20180106-FD (both from SDG 440-199947-1), samples ES-28-80.0-20180107 and ES-28-80.0-20180107-FD (both from SDG 440-199947-1), samples ES-1-20.0-20180108 and ES-1-20.0-20180108-FD (both from SDG 440-200133-1), samples ES-1-80.0-20180108 and ES-1-80.0-20180108-FD (both from SDG 440-200133-1), samples POD7-R-20180110* and POD7-R-20180110-FD* (both from SDG 440-200423-1), samples BEC-6-20180111* and BEC-6-20180111-FD* (both from SDG 440-200639-1), samples ESB-9-20.0-20180110 and ESB-9-20.0-20180110-FD (from SDG 440-200723-1), samples ESB-9-80.0-20180110 and ESB-9-80.0-20180110-FD (both from SDG 440-200723-1), samples ESB-8-20.0-20180110 and ESB-8-20.0-20180110-FD (both from SDG 440-200723-1), samples ESB-8-80.0-20180110 and ESB-8-80.0-20180110-FD (both from SDG 440-200723-1), samples MCF-01A-20180116* and MCF-01A-20180116-FD* (both from SDG 440-201212-1), samples MCF-03B-20180117* and MCF-03B-20180117-FD* (both from SDG 440-201349-1), samples EBS-13-20.0-20180116 and EBS-13-20.0-20180116-FD (both from SDG 440-201352-1), samples EBS-13-80.0-20180116 and EBS-13-80.0-20180116-FD (both from SDG 440-201352-1), samples MCF-16C-20180118* and MCF-16C-20180118-FD* (both from SDG 440-201477-1), samples DBMW-1-20180119* and DBMW-1-20180119-FD* (both from SDG 440-201555-1), samples MCF-06B-20180122* and MCF-06B-20180122-FD* (both from SDG 440-201673-1), samples DBMW-4-20180122* and DBMW-4-20180122-FD* (both from SDG 440-201673-1), samples DBMW-17-20180123* and DBMW-17-20180123-FD* (both from SDG 440-201758-1), samples POD7-20180123* and POD7-20180123-FD* (both from SDG 440-201758-1), samples ES-13-20.0-20180122 and ES-13-20.0-20180122-FD (both from SDG 440-201874-1), samples ES-13-80.0-20180123 and ES-13-80.0-20180123-FD (both from SDG 440-201874-1), samples MCF-06A-R-20180124-FD* and AA-UW5-20180124* (both from SDG 440-201886-1), samples ES-20-20.0-20180130 and ES-20-20.0-20180130-FD (both from SDG 440-202382-1), samples ES-20-80.0-20180130 and ES-20-80.0-20180130-FD (both from SDG 440-202382-1), samples ESB-15-20.0-20180204 and ESB-15-20.0-20180204-FD (both from SDG 440-202717-1), samples ESB-15-80.0-20180204 and ESB-15-80.0-20180204-FD (both from SDG 440-202717-1), samples ES-8-20.0-20180215 and ES-8-20.0-20180215-FD (both from SDG 440-203681-1), samples ES-8-80.0-20180215 and ES-8-80.0-20180215-FD (both from SDG 440-203681-1), samples ES-11-30.0-20180219 and ES-11-30.0-20180219-FD (both from SDG 440-203772-1), samples ES-11-100.0-20180219 and ES-11-100.0-20180219-FD (both from SDG 440-203772-1), samples ES-29-20180217* and ES-29-20180217-FD* (both from SDG 440-203773-1), samples ES-9-20.0-20180220 and ES-9-20.0-20180220-FD (both from SDG 440-203943-1), samples ES-9-80.0-20180220 and ES-9-80.0-20180220-FD (both from SDG 440-203943-1), samples ESB-16-20.0-20180220 and ESB-16-20.0-20180220-FD (both from SDG 440-203943-1), samples

ESB-16-90.0-20180221 and ESB-16-90.0-20180221-FD (both from SDG 440-203943-1), samples ESB-18-20.0-20180227** and ESB-18-20.0-20180227-FD** (both from SDG 440-204533-1), samples ESB-18-80.0-20180227** and ESB-18-80.0-20180227-FD** (both from SDG 440-204533-1), samples ES-16-20.0-20180228 and ES-16-20.0-20180228-FD (both from SDG 440-204592-1), samples ES-16-80.0-20180228 and ES-16-80.0-20180228-FD (both from SDG 440-204592-1), samples ES-18-20.0-20180302 and ES-18-20.0-20180302-FD (both from SDG 440-204730-1), samples ES-18-80.0-20180302 and ES-18-80.0-20180302-FD (both from SDG 440-204730-1), samples ES-25B-20.0-20180306 and ES-25B-20.0-20180306-FD (both from SDG 440-205117-1), samples ES-25B-80.0-20180306 and ES-25B-80.0-20180306-FD (both from SDG 440-205117-1), samples ES-26-20.0-20180306 and ES-26-20.0-20180306-FD (both from SDG 440-205117-1), samples ES-26-80.0-20180306 and ES-26-80.0-20180306-FD (both from SDG 440-205117-1), samples ES-27-20.0-20180307 and ES-27-20.0-20180307-FD (both from SDG 440-205338-1), samples ES-27-80.0-20180307 and ES-27-80.0-20180307-FD (both from SDG 440-205338-1), samples ESB-10-20.0-20180316 and ESB-10-20.0-20180316-FD (both from SDG 440-206347-1), samples ESB-10-80.0-20180316 and ESB-10-80.0-20180316-FD (both from SDG 440-206347-1), samples ESB-12-20.0-20180318 and ESB-12-20.0-20180318-FD (both from SDG 440-206347-1), samples ESB-12-80.0-20180318 and ESB-12-80.0-20180318-FD (both from SDG 440-206347-1), samples ESB-11-20.0-20180319 and ESB-11-20.0-20180319-FD (both from SDG 440-206485-1), samples ESB-11-80.0-20180319 and ESB-11-80.0-20180319-FD (both from SDG 440-206485-1), samples ESB-17-20.0-20180319 and ESB-17-20.0-20180319-FD (both from SDG 440-206485-1), samples ESB-17-80.0-20180319 and ESB-17-80.0-20180319-FD (both from SDG 440-206485-1), samples ESB-15-20.0-20180320 and ESB-15-20.0-20180320-FD (both from SDG 440-206485-1), samples ESB-15-80.0-20180320 and ESB-15-80.0-20180320-FD (both from SDG 440-206485-1), samples MCF-03A-20180327* and MCF-03A-20180327-FD* (both from SDG 440-207301-1), samples ES-3-20180328* and ES-3-20180328-FD* (both from SDG 440-207464-1), samples DMW-9-20180329* and DBMW-9-20180329-FD* (both from SDG 440-207515-1), samples DBMW-18-20180330-FD* and DBMW-18-20180330* (both from SDG 440-207694-1), samples MCF-16A-20180403* and MCF-16A-20180403-FD* (both from SDG 440-207962-1), samples BEC-5-20180405* and BEC-5-20180405-FD* (both from SDG 440-208186-1), samples ES-31-20180409* and ES-31-20180409-FD* (both from SDG 440-208388-1), samples DBMW-14-20180410* and DBMW-14-20180410-FD* (both from SDG 440-208545-1), samples MW-1-20180411* and MW-1-20180411-FD* (both from SDG 440-208632-1), samples ES-6-20180412* and ES-6-20180412-FD* (both from SDG 440-208783-1), samples NERT4.51S1-40.0-20180613** and NERT4.51S1-40.0-20180613-FD** (both from SDG 440-213750-1), samples NERT5.11S1-70.0-20180616 and NERT5.11S1-70.0-20180616-FD (both from SDG 440-213885-1), samples NERT5.91S1-70.0-20180617 and NERT5.91S1-70.0-20180617-FD (both from SDG 440-213885-1), samples NERT5.49S1-60.0-20180618 and NERT5.49S1-60.0-20180618-FD (both from SDG 440-213889-1), samples NERT4.21N1-70.0-20180619 and NERT4.21N1-70.0-20180619-FD (both from SDG 440-214104-1), samples NERT4.71S1-40.0-20180626** and NERT4.71S1-40.0-20180626-FD** (both from SDG 440-214510-1), samples NERT3.80S1-30.0-20180627 and NERT3.80S1-30.0-20180627-FD (both from SDG 440-214614-1), samples ES-24-30.0-20180730 and ES-24-30.0-20180730-FD (both

from SDG 440-217066-1), samples ES-24-60.0-20180731 and ES-24-60.0-20180731-FD (both from SDG 440-217066-1), samples ES-22-20.0-20180801** and ES-22-20.0-20180801-FD** (both from SDG 440-217261-1), samples ES-22-40.0-20180801** and ES-22-40.0-20180801-FD** (both from SDG 440-217261-1), samples ES-21-30.0-20180806 and ES-21-30.0-20180806-FD (both from SDG 440-217667-1), samples ES-23-40.0-20180813 and ES-23-40.0-20180813-FD (both from SDG 440-218126-1), and samples ES-24-20180912* and ES-24-20180912-FD* (both from SDG 440-219956-1) and samples ES-22A-20181113* and ES-22A-20181113-FD* (both from SDG 440-224310-1) were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		ES-3-50.0-20171212**	ES-3-50.0-20171212-FD**			
440-198541-1	Chlorate	4.5	4.2	7 (≤50)	-	-
	Perchlorate	1.0	0.98	2 (≤50)	-	-

SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		ES-4-90.0-20171213**	ES-4-90.0-20171213-FD**			
440-198541-1	Chlorate	18	18	0 (≤50)	-	-
	Perchlorate	1.6	1.8	12 (≤50)	-	-

SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		ESB-5-20.0-20171216	ESB-5-20.0-20171216-FD			
440-198772-1	Chlorate	5.6	5.6	0 (≤50)	-	-
	Perchlorate	2.3	2.5	8 (≤50)	-	-

SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		ESB-5-60.0-20171216	ESB-5-60.0-20171216-FD			
440-198772-1	Chlorate	56	54	4 (≤50)	-	-
	Perchlorate	2.2	2.0	10 (≤50)	-	-

SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		ESB-2-20.0-20171215	ESB-2-20.0-20171215-FD			
440-198772-1	Chlorate	0.39	0.40	3 (≤50)	-	-
	Perchlorate	0.32	0.34	6 (≤50)	-	-

SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		ESB-2-80.0-20171216	ESB-2-80.0-20171216-FD			
440-198772-1	Chlorate	25	28	11 (≤50)	-	-
	Perchlorate	8.6	9.6	11 (≤50)	-	-

SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		ESB-3-20.0-20171217	ESB-3-20.0-20171217-FD			
440-198772-1	Chlorate	0.79	0.98	21 (≤50)	-	-
	Perchlorate	1.5	1.3	14 (≤50)	-	-

SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		ESB-3-80.0-20171217	ESB-3-80.0-20171217-FD			
440-198772-1	Chlorate	2.0	6.3	104 (≤50)	J (all detects)	A
	Perchlorate	1.0	2.5	86 (≤50)	J (all detects)	A

SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		ESB-6-80.0-20171217	ESB-6-80.0-20171217-FD			
440-198772-1	Chlorate	6.2	6.5	5 (≤50)	-	-
	Perchlorate	2.6	2.0	26 (≤50)	-	-

SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		ESB-4-20.0-20171218	ESB-4-20.0-20171218-FD			
440-198964-1	Chlorate	31	31	0 (≤50)	-	-
	Perchlorate	0.14	0.12	15 (≤50)	-	-

SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		ESB-4-80.0-20171218	ESB-4-80.0-20171218-FD			
440-198964-1	Chlorate	4.3	4.6	7 (≤50)	-	-
	Perchlorate	1.1	0.80	32 (≤50)	-	-

SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		ESB-5-20.0-20171218	ESB-5-20.0-20171218-FD			
440-198964-1	Chlorate	0.77	0.76	1 (≤50)	-	-
	Perchlorate	0.26	0.65	86 (≤50)	J (all detects)	A

SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		ESB-5-80.0-20171218	ESB-5-80.0-20171218-FD			
440-198964-1	Chlorate	4.7	4.6	2 (≤50)	-	-
	Perchlorate	5.0	3.9	25 (≤50)	-	-

SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		ESB-1-20.0-20171220	ESB-1-20.0-20171220-FD			
440-198964-1	Chlorate	0.44	0.43	2 (≤50)	-	-
	Perchlorate	0.48	0.47	2 (≤50)	-	-

SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		ESB-1-80.0-20171220	ESB-1-80.0-20171220-FD			
440-199067-1	Chlorate	0.20	0.20	0 (≤50)	-	-

SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		ESB-7-20.0-20171220	ESB-7-20.0-20171220-FD			
440-199067-1	Chlorate	2.9	2.9	0 (≤50)	-	-
	Perchlorate	2.3	2.5	8 (≤50)	-	-

SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		ESB-7-80.0-20171220	ESB-7-80.0-20171220-FD			
440-199067-1	Chlorate	0.26	0.23	12 (≤50)	-	-

SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		ES-6-20.0-20180102	ES-6-20.0-20180102-FD			
440-199609-1	Chlorate	0.58	0.57	2 (≤50)	-	-
	Perchlorate	0.18	0.17	6 (≤50)	-	-

SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		ES-6-80.0-20180102	ES-6-80.0-20180102-FD			
440-199609-1	Chlorate	7.0	6.5	7 (≤50)	-	-
	Perchlorate	2.4	2.0	18 (≤50)	-	-

SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		ES-30-20.0-20180102	ES-30-20.0-20180102-FD			
440-199609-1	Chlorate	1.8	1.8	0 (≤50)	-	-
	Perchlorate	1.8	1.1	48 (≤50)	-	-

SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		ES-30-80.0-20180103	ES-30-80.0-20180103-FD			
440-199609-1	Chlorate	5.2	5.2	0 (≤50)	-	-
	Perchlorate	1.8	2.0	11 (≤50)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		AA-UW2-20180108*	AA-UW2-20180108-FD*			
440-199942-1	Nitrate as NO3	64 mg/L	64 mg/L	0 (≤30)	-	-
	Chloride	370000 ug/L	370000 ug/L	0 (≤30)	-	-
	Sulfate	1400000 ug/L	1400000 ug/L	0 (≤30)	-	-
	Total dissolved solids	3100000 ug/L	3100000 ug/L	0 (≤30)	-	-
	Alkalinity as CaCO3	150000 ug/L	150000 ug/L	0 (≤30)	-	-
	Bicarbonate ion as HCO3	190000 ug/L	190000 ug/L	0 (≤30)	-	-
	Chlorate	760 ug/L	780 ug/L	3 (≤30)	-	-
	Perchlorate	66 ug/L	67 ug/L	2 (≤30)	-	-

SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		ES-28-80.0-20180107	ES-28-80.0-20180107-FD			
440-199947-1	Chlorate	0.089	0.11	21 (≤50)	-	-
	Perchlorate	0.037	0.049	28 (≤50)	-	-

SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		ES-1-20.0-20180108	ES-1-20.0-20180108-FD			
440-200133-1	Chlorate	0.058	0.065	11 (≤50)	-	-
	Perchlorate	0.014	0.011	24 (≤50)	-	-

SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		ES-1-80.0-20180108	ES-1-80.0-20180108-FD			
440-200133-1	Chlorate	2.7	2.6	4 (≤50)	-	-
	Perchlorate	1.2	1.0	18 (≤50)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		POD7-R-20180110*	POD7-R-20180110-FD*			
440-200423-1	Nitrate as NO3	160 mg/L	160 mg/L	0 (≤30)	-	-
	Chloride	400000 ug/L	420000	5 (≤30)	-	-
	Sulfate	960000 ug/L	1100000 ug/L	14 (≤30)	-	-
	Total dissolved solids	2500000 ug/L	2500000 ug/L	0 (≤30)	-	-
	Alkalinity as CaCO3	50000 ug/L	57000 ug/L	13 (≤30)	-	-
	Bicarbonate ion as HCO3	61000 ug/L	70000 ug/L	14 (≤30)	-	-
	Chlorate	23000 ug/L	23000 ug/L	0 (≤30)	-	-
	Perchlorate	1700 ug/L	1800 ug/L	6 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		BEC-6-20180111*	BEC-6-20180111-FD*			
440-200639-1	Chloride	300 mg/L	300 mg/L	0 (≤30)	-	-
	Sulfate	1800 mg/L	1800 mg/L	0 (≤30)	-	-
	Total dissolved solids	3200000 ug/L	3200000 ug/L	0 (≤30)	-	-
	Alkalinity as CaCO3	78000 ug/L	78000 ug/L	0 (≤30)	-	-
	Bicarbonate ion as HCO3	95000 ug/L	96000 ug/L	1 (≤30)	-	-

*Indicates Stage 2A validation
**Indicates Stage 4 validation

SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		ESB-9-20.0-20180110	ESB-9-20.0-20180110-FD			
440-200723-1	Chlorate	5.9	6.0	2 (≤50)	-	-
	Perchlorate	4.1	4.0	2 (≤50)	-	-

SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		ESB-9-80.0-20180110	ESB-9-80.0-20180110-FD			
440-200723-1	Chlorate	0.077	0.076	1 (≤50)	-	-

SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		ESB-8-20.0-20180110	ESB-8-20.0-20180110-FD			
440-200723-1	Chlorate	8.1	8.1	0 (≤50)	-	-
	Perchlorate	0.55	0.45	20 (≤50)	-	-

SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		ESB-8-80.0-20180110	ESB-8-80.0-20180110-FD			
440-200723-1	Chlorate	0.074	0.076	3 (≤50)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		MCF-01A-20180116*	MCF-01A-20180116-FD*			
440-201212-1	Chloride	100 mg/L	110 mg/L	10 (≤30)	-	-
	Nitrate as NO3	1.0U mg/L	0.58 mg/L	200 (≤30)	NQ	-
	Sulfate	2400 mg/L	2700 mg/L	12 (≤30)	-	-
	Total dissolved solids	4000000 ug/L	4000000 ug/L	0 (≤30)	-	-
	Alkalinity as CaCO3	29000 ug/L	30000 ug/L	3 (≤30)	-	-
	Bicarbonate ion as HCO3	35000 ug/L	37000 ug/L	6 (≤30)	-	-

*Indicates Stage 2A validation
**Indicates Stage 4 validation

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		MCF-03B-20180117*	MCF-03B-20180117-FD*			
440-201349-1	Nitrate as NO3	48 mg/L	49 mg/L	2 (≤30)	-	-
	Chloride	260 mg/L	250 mg/L	4 (≤30)	-	-
	Sulfate	1000 mg/L	1000 mg/L	0 (≤30)	-	-
	Total dissolved solids	2200000 ug/L	2200000 ug/L	0 (≤30)	-	-
	Alkalinity as CaCO3	150000 ug/L	130000 ug/L	14 (≤30)	-	-
	Bicarbonate ion as HCO3	180000 ug/L	160000 ug/L	12 (≤30)	-	-
	Chlorate	61 ug/L	59 ug/L	3 (≤30)	-	-
	Perchlorate	78 ug/L	88 ug/L	12 (≤30)	-	-

SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		EBS-13-20.0-20180116	EBS-13-20.0-20180116-FD			
440-201352-1	Chlorate	22	22	0 (≤50)	-	-
	Perchlorate	3.0	2.9	3 (≤50)	-	-

SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		EBS-13-80.0-20180116	EBS-13-80.0-20180116-FD			
440-201352-1	Chlorate	0.21	0.21	0 (≤50)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		MCF-16C-20180118*	MCF-16C-20180118-FD			
440-201477-1	Nitrate as NO3	67 mg/L	74 mg/L	10 (≤30)	-	-
	Chloride	860 mg/L	870 mg/L	1 (≤30)	-	-
	Sulfate	6000 mg/L	4900 mg/L	20 (≤30)	-	-
	Total dissolved solids	9600000 ug/L	8600000 ug/L	11 (≤30)	-	-

*Indicates Stage 2A validation
**Indicates Stage 4 validation

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		MCF-16C-20180118*	MCF-16C-20180118-FD			
440-201477-1	Alkalinity as CaCO3	75000 ug/L	75000 ug/L	0 (≤30)	-	-
	Bicarbonate ion as HCO3	92000 ug/L	92000 ug/L	0 (≤30)	-	-
	Chlorate	12000 ug/L	12000 ug/L	0 (≤30)	-	-
	Perchlorate	9800 ug/L	11000 ug/L	12 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		DBMW-1-20180119*	DBMW-1-20180119-FD*			
440-201555-1	Nitrate as NO3	37 mg/L	39 mg/L	5 (≤30)	-	-
	Chloride	990 mg/L	1000 mg/L	1 (≤30)	-	-
	Sulfate	2800 mg/L	2800 mg/L	0 (≤30)	-	-
	Total dissolved solids	6300000 ug/L	6200000 ug/L	2 (≤30)	-	-
	Alkalinity as CaCO3	62000 ug/L	60000 ug/L	3 (≤30)	-	-
	Bicarbonate ion as HCO3	76000 ug/L	73000 ug/L	4 (≤30)	-	-
	Chlorate	27000 ug/L	23000 ug/L	16 (≤30)	-	-
	Perchlorate	8800 ug/L	9000 ug/L	2 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		MCF-06B-20180122*	MCF-06B-20180122-FD*			
440-201673-1	Nitrate as NO3	15 mg/L	17 mg/L	13 (≤30)	-	-
	Chloride	7200 mg/L	7300 mg/L	1 (≤30)	-	-
	Sulfate	20000 mg/L	21000 mg/L	5 (≤30)	-	-
	Total dissolved solids	40000000 ug/L	40000000 ug/L	0 (≤30)	-	-
	Alkalinity as CaCO3	65000 ug/L	63000 ug/L	3 (≤30)	-	-

*Indicates Stage 2A validation
**Indicates Stage 4 validation

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		MCF-06B-20180122*	MCF-06B-20180122-FD*			
440-201673-1	Bicarbonate ion as HCO3	79000 ug/L	77000 ug/L	3 (≤30)	-	-
	Chlorate	2200 ug/L	2000 ug/L	10 (≤30)	-	-
	Perchlorate	2600 ug/L	2600 ug/L	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		DBMW-4-20180122*	DBMW-4-20180122-FD*			
440-201673-1	Nitrate as NO3	78 mg/L	79 mg/L	1 (≤30)	-	-
	Chloride	1000 mg/L	1000 mg/L	0 (≤30)	-	-
	Sulfate	2500 mg/L	2500 mg/L	0 (≤30)	-	-
	Total dissolved solids	5700000 ug/L	5800000 ug/L	2 (≤30)	-	-
	Alkalinity as CaCO3	79000 ug/L	80000 ug/L	1 (≤30)	-	-
	Bicarbonate ion as HCO3	97000 ug/L	97000 ug/L	0 (≤30)	-	-
	Chlorate	75000 ug/L	76000 ug/L	1 (≤30)	-	-
	Perchlorate	6100 ug/L	6100 ug/L	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		DBMW-17-20180123*	DBMW-17-20180123-FD*			
440-201758-1	Nitrate as NO3	11 mg/L	11 mg/L	0 (≤30)	-	-
	Chloride	19 mg/L	19 mg/L	0 (≤30)	-	-
	Sulfate	530 mg/L	490 mg/L	8 (≤30)	-	-
	Total dissolved solids	880000 ug/L	870000 ug/L	1 (≤30)	-	-
	Alkalinity as CaCO3	90000 ug/L	90000 ug/L	0 (≤30)	-	-
	Bicarbonate ion as HCO3	110000 ug/L	110000 ug/L	0 (≤30)	-	-

*Indicates Stage 2A validation
**Indicates Stage 4 validation

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		DBMW-17-20180123*	DBMW-17-20180123-FD*			
440-201758-1	Chlorate	26 ug/L	25 ug/L	4 (≤30)	-	-
	Perchlorate	2.6 ug/L	2.5 ug/L	4 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		POD7-20180123*	POD7-20180123-FD*			
440-201758-1	Nitrate as NO3	250 mg/L	300 mg/L	18 (≤30)	-	-
	Chloride	2200 mg/L	2700 mg/L	20 (≤30)	-	-
	Sulfate	1500 mg/L	1800 mg/L	18 (≤30)	-	-
	Total dissolved solids	7600000 ug/L	7600000 ug/L	0 (≤30)	-	-
	Alkalinity as CaCO3	150000 ug/L	150000 ug/L	0 (≤30)	-	-
	Bicarbonate ion as HCO3	180000 ug/L	180000 ug/L	0 (≤30)	-	-
	Chlorate	1200 ug/L	1200 ug/L	0 (≤30)	-	-
	Perchlorate	980 ug/L	1000 ug/L	2 (≤30)	-	-

SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		ES-13-20.0-20180122	ES-13-20.0-20180122-FD			
440-201874-1	Chlorate	0.26	0.28	7 (≤50)	-	-
	Perchlorate	0.11	0.12	9 (≤50)	-	-

SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		ES-13-80.0-20180123	ES-13-80.0-20180123-FD			
440-201874-1	Chlorate	1.7	1.7	0 (≤50)	-	-
	Perchlorate	2.0	2.0	0 (≤50)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		MCF-06A-R-20180124*	MCF-06A-R-20180124-FD*			
440-201886-1	Chloride	60000 mg/L	55000 mg/L	9 (≤30)	-	-
	Sulfate	72000 mg/L	69000 mg/L	4 (≤30)	-	-
	Total dissolved solids	140000000 ug/L	140000000 ug/L	0 (≤30)	-	-
	Alkalinity as CaCO3	120000 ug/L	120000 ug/L	0 (≤30)	-	-
	Bicarbonate ion as HCO3	140000 ug/L	150000 ug/L	7 (≤30)	-	-

SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		ES-20-80.0-20180130	ES-20-80.0-20180130-FD			
440-202382-1	Chlorate	0.077	0.29U	200 (≤50)	NQ	-

SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		ESB-15-20.0-20180204	ESB-15-20.0-20180204-FD			
440-202717-1	Chlorate	8.6	7.6	12 (≤50)	-	-
	Perchlorate	0.36	0.30	18 (≤50)	-	-

SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		ESB-15-80.0-20180204	ESB-15-80.0-20180204-FD			
440-202717-1	Chlorate	0.087	0.077	12 (≤50)	-	-

SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		ES-8-20.0-20180215	ES-8-20.0-20180215-FD			
440-203681-1	Chlorate	0.13	0.13	0 (≤50)	-	-
	Perchlorate	0.067	0.063	6 (≤50)	-	-

SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		ES-8-80.0-20180215	ES-8-80.0-20180215-FD			
440-203681-1	Chlorate	13	12	8 (≤50)	-	-
	Perchlorate	8.2	7.1	14 (≤50)	-	-

SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		ES-11-30.0-20180219	ES-11-30.0-20180219-FD			
440-203772-1	Chlorate	16	16	0 (≤50)	-	-
	Perchlorate	0.96	0.68	34 (≤50)	-	-

SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		ES-11-100.0-20180219	ES-11-100.0-20180219-FD			
440-203772-1	Chlorate	0.35	0.35	0 (≤50)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		ES-29-20180217*	ES-29-20180217-FD*			
440-203773-1	Nitrate as NO3	54 mg/L	56 mg/L	4 (≤30)	-	-
	Chloride	450 mg/L	440 mg/L	2 (≤30)	-	-
	Sulfate	3900 mg/L	3900 mg/L	0 (≤30)	-	-
	Chlorate	180 ug/L	170 ug/L	6 (≤30)	-	-
	Perchlorate	110 ug/L	110 ug/L	0 (≤30)	-	-
	Total dissolved solids	6100000 ug/L	6100000 ug/L	0 (≤30)	-	-
	Alkalinity as CaCO3	93000 ug/L	93000 ug/L	0 (≤30)	-	-
	Bicarbonate ion as HCO3	110000 ug/L	110000 ug/L	0 (≤30)	-	-

SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		ES-9-20.0-20180220	ES-9-20.0-20180220-FD			
440-203943-1	Chlorate	1.5	1.6	6 (≤50)	-	-
	Perchlorate	1.1	1.3	17 (≤50)	-	-

SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		ESB-16-20.0-20180220	ESB-16-20.0-20180220-FD			
440-203943-1	Chlorate	1.1	1.1	0 (≤50)	-	-
	Perchlorate	0.43	0.34	23 (≤50)	-	-

SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		ESB-16-90.0-20180221	ESB-16-90.0-20180221-FD			
440-203943-1	Chlorate	0.12	0.11	9 (≤50)	-	-

SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		ESB-18-20.0-20180227**	ESB-18-20.0-20180227-FD**			
440-204533-1	Chlorate	0.39	0.41	5 (≤50)	-	-
	Perchlorate	0.29	0.26	11 (≤50)	-	-

SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		ES-18-20.0-20180302	ES-18-20.0-20180302-FD			
440-204730-1	Perchlorate	0.023	0.013	56 (≤50)	J (all detects)	A

SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		ES-25B-20.0-20180306	ES-25B-20.0-20180306-FD			
440-205117-1	Chlorate	1.3	1.3	0 (≤50)	-	-
	Perchlorate	0.66	1.0	41 (≤50)	-	-

*Indicates Stage 2A validation
**Indicates Stage 4 validation

SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		ES-26-20.0-20180306	ES-26-20.0-20180306-FD			
440-205117-1	Chlorate	1.6	1.6	0 (≤50)	-	-
	Perchlorate	0.75	0.72	4 (≤50)	-	-

SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		ES-26-80.0-20180306	ES-26-80.0-20180306-FD			
440-205117-1	Chlorate	2.9	3.7	24 (≤50)	-	-
	Perchlorate	3.0	2.7	11 (≤50)	-	-

SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		ESB-10-20.0-20180316	ESB-10-20.0-20180316-FD			
440-206347-1	Perchlorate	0.28	0.27	4 (≤50)	-	-

SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		ESB-10-80.0-20180316	ESB-10-80.0-20180316-FD			
440-206347-1	Chlorate	3.2	3.2	0 (≤50)	-	-
	Perchlorate	1.2	1.0	18 (≤50)	-	-

SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		ESB-12-20.0-20180318	ESB-12-20.0-20180318-FD			
440-206347-1	Chlorate	0.56	0.58	4 (≤50)	-	-
	Perchlorate	0.74	0.70	6 (≤50)	-	-

SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		ESB-11-20.0-20180319	ESB-11-20.0-20180319-FD			
440-206485-1	Chlorate	1.3	1.3	0 (≤50)	-	-

*Indicates Stage 2A validation
**Indicates Stage 4 validation

SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		ESB-11-20.0-20180319	ESB-11-20.0-20180319-FD			
440-206485-1	Perchlorate	0.63	0.58	8 (≤50)	-	-

SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		ESB-11-80.0-20180319	ESB-11-80.0-20180319-FD			
440-206485-1	Chlorate	0.14	0.13	7 (≤50)	-	-

SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		ESB-17-20.0-20180319	ESB-17-20.0-20180319-FD			
440-206485-1	Perchlorate	0.029	0.029	0 (≤50)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		MCF-03A-20180327*	MCF-03A-20180327-FD*			
440-207301-1	Nitrate as NO3	10 mg/L	9.7 mg/L	3 (≤30)	-	-
	Chloride	130 mg/L	110 mg/L	17 (≤30)	-	-
	Sulfate	240 mg/L	210 mg/L	13 (≤30)	-	-
	pH	8.0 SU	8.1 SU	1 (≤30)	-	-
	Total dissolved solids	640000 ug/L	640000 ug/L	0 (≤30)	-	-
	Alkalinity as CaCO3	63000 ug/L	64000 ug/L	2 (≤30)	-	-
	Bicarbonate ion as HCO3	77000 ug/L	78000 ug/L	1 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		ES-3-20180328*	ES-3-20180328-FD*			
440-207464-1	Chloride	790 mg/L	790 mg/L	0 (≤30)	-	-
	Nitrate as NO3	35 mg/L	37 mg/L	6 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		ES-3-20180328*	ES-3-20180328-FD*			
440-207464-1	Sulfate	960 mg/L	910 mg/L	5 (≤30)	-	-
	Chlorate	6400 ug/L	6400 ug/L	0 (≤30)	-	-
	Perchlorate	1600 ug/L	1600 ug/L	0 (≤30)	-	-
	pH	7.8 SU	7.8 SU	0 (≤30)	-	-
	Alkalinity as CaCO3	110000 ug/L	120000 ug/L	9 (≤30)	-	-
	Bicarbonate ion as HCO3	140000 ug/L	140000 ug/L	0 (≤30)	-	-
	Total dissolved solids	3300000 ug/L	3300000 ug/L	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		DMW-9-20180329*	DBMW-9-20180329-FD*			
440-207515-1	Chloride	330 mg/L	330 mg/L	0 (≤30)	-	-
	Nitrate as NO3	100 mg/L	100 mg/L	0 (≤30)	-	-
	Sulfate	1800 mg/L	1800 mg/L	0 (≤30)	-	-
	Chlorate	4500 ug/L	4400 ug/L	2 (≤30)	-	-
	Perchlorate	2200 ug/L	2300 ug/L	4 (≤30)	-	-
	Alkalinity as CaCO3	75000 ug/L	76000 ug/L	1 (≤30)	-	-
	Bicarbonate ion as HCO3	92000 ug/L	92000 ug/L	0 (≤30)	-	-
	Total dissolved solids	3700000 ug/L	3700000 ug/L	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		DBMW-18-20180330-FD	DBMW-18-20180330			
440-207694-1	Chloride	29 mg/L	29 mg/L	0 (≤30)	-	-
	Nitrate as NO3	9.7 mg/L	12 mg/L	21 (≤30)	-	-

*Indicates Stage 2A validation
**Indicates Stage 4 validation

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		DBMW-18-20180330-FD	DBMW-18-20180330			
440-207694-1	Sulfate	780 mg/L	800 mg/L	3 (≤30)	-	-
	Chlorate	110 ug/L	110 ug/L	0 (≤30)	-	-
	Perchlorate	5.0 ug/L	5.2 ug/L	4 (≤30)	-	-
	pH	7.8 SU	7.7 SU	1 (≤30)	-	-
	Alkalinity as CaCO3	60000 ug/L	58000 ug/L	3 (≤30)	-	-
	Bicarbonate ion as HCO3	73000 ug/L	70000 ug/L	4 (≤30)	-	-
	Total dissolved solids	1400000 ug/L	1400000 ug/L	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		MCF-16A-20180403*	MCF-16A-20180403-FD*			
440-207962-1	Chloride	3700 mg/L	3800 mg/L	3 (≤30)	-	-
	Sulfate	67000 mg/L	64000 mg/L	5 (≤30)	-	-
	pH	7.5 SU	7.5 SU	0 (≤30)	-	-
	Alkalinity as CaCO3	130000 ug/L	130000 ug/L	0 (≤30)	-	-
	Bicarbonate ion as HCO3	160000 ug/L	160000 ug/L	0 (≤30)	-	-
	Total dissolved solids	80000000 ug/L	80000000 ug/L	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		BEC-5-20180405*	BEC-5-20180405-FD*			
440-208186-1	Nitrate as NO3	96 mg/L	97 mg/L	1 (≤30)	-	-
	Chloride	630 mg/L	640 mg/L	2 (≤30)	-	-
	Sulfate	2000 mg/L	2100 mg/L	5 (≤30)	-	-
	Chlorate	3100 ug/L	3000 ug/L	3 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		BEC-5-20180405*	BEC-5-20180405-FD*			
440-208186-1	Perchlorate	1300 ug/L	1300 ug/L	0 (≤30)	-	-
	pH	7.8 SU	7.8 SU	0 (≤30)	-	-
	Alkalinity as CaCO3	120000 ug/L	120000 ug/L	0 (≤30)	-	-
	Bicarbonate ion as HCO3	150000 ug/L	150000 ug/L	0 (≤30)	-	-
	Total dissolved solids	4300000 ug/L	4300000 ug/L	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		ES-31-20180409*	ES-31-20180409-FD*			
440-208388-1	Nitrate as NO3	71 mg/L	70 mg/L	1 (≤30)	-	-
	Chloride	1200 mg/L	1200 mg/L	0 (≤30)	-	-
	Sulfate	2700 mg/L	2500 mg/L	8 (≤30)	-	-
	Chlorate	120000 ug/L	130000 ug/L	8 (≤30)	-	-
	Perchlorate	6000 ug/L	6300 ug/L	5 (≤30)	-	-
	pH	7.6 SU	7.6 SU	0 (≤30)	-	-
	Alkalinity as CaCO3	77000 ug/L	77000 ug/L	0 (≤30)	-	-
	Bicarbonate ion as HCO3	94000 ug/L	94000 ug/L	0 (≤30)	-	-
	Total dissolved solids	6200000 ug/L	6100000 ug/L	2 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		DBMW-14-20180410*	DBMW-14-20180410-FD*			
440-208545-1	Nitrate as NO3	77 mg/L	72 mg/L	7 (≤30)	-	-
	Chloride	890 mg/L	860 mg/L	3 (≤30)	-	-
	Sulfate	2800 mg/L	2500 mg/L	11 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		DBMW-14-20180410*	DBMW-14-20180410-FD*			
440-208545-1	Chlorate	22000 ug/L	22000 ug/L	0 (≤30)	-	-
	Perchlorate	13000 ug/L	13000 ug/L	0 (≤30)	-	-
	pH	7.7 SU	7.7 SU	0 (≤30)	-	-
	Alkalinity as CaCO3	46000 ug/L	46000 ug/L	0 (≤30)	-	-
	Bicarbonate ion as HCO3	57000 ug/L	56000 ug/L	2 (≤30)	-	-
	Total dissolved solids	5500000 ug/L	5400000 ug/L	2 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		MW-1-20180411*	MW-1-20180411-FD*			
440-208632-1	Nitrate as NO3	72 mg/L	72 mg/L	0 (≤30)	-	-
	Chloride	950 mg/L	930 mg/L	2 (≤30)	-	-
	Sulfate	2700 mg/L	2700 mg/L	0 (≤30)	-	-
	Chlorate	14000 ug/L	14000 ug/L	0 (≤30)	-	-
	Perchlorate	8000 ug/L	8400 ug/L	5 (≤30)	-	-
	pH	7.9 SU	7.8 SU	1 (≤30)	-	-
	Alkalinity as CaCO3	48000 ug/L	48000 ug/L	0 (≤30)	-	-
	Bicarbonate ion as HCO3	58000 ug/L	58000 ug/L	0 (≤30)	-	-
	Total dissolved solids	6200000 ug/L	6200000 ug/L	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		ES-6-20180412*	ES-6-20180412-FD*			
440-208783-1	Nitrate as NO3	17 mg/L	18 mg/L	6 (≤30)	-	-
	Chloride	440 mg/L	460 mg/L	4 (≤30)	-	-

*Indicates Stage 2A validation
**Indicates Stage 4 validation

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		ES-6-20180412*	ES-6-20180412-FD*			
440-208783-1	Sulfate	1600 mg/L	1700 mg/L	6 (≤30)	-	-
	Chlorate	14000 ug/L	14000 ug/L	0 (≤30)	-	-
	Perchlorate	4100 ug/L	4000 ug/L	2 (≤30)	-	-
	pH	7.9 SU	7.9 SU	0 (≤30)	-	-
	Alkalinity as CaCO3	72000 ug/L	72000 ug/L	0 (≤30)	-	-
	Bicarbonate ion as HCO3	88000 ug/L	88000 ug/L	0 (≤30)	-	-
	Total dissolved solids	3300000 ug/L	3300000 ug/L	0 (≤30)	-	-

SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		NERT4.51S1-40.0-20180613**	NERT4.51S1-40.0-20180613-FD**			
440-213750-1	Chlorate	0.56	0.55	2 (≤50)	-	-
	Perchlorate	0.099	0.15	41 (≤50)	-	-

SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		NERT5.11S1-70.0-20180616	NERT5.11S1-70.0-20180616-FD			
440-213885-1	Chlorate	4.3	4.3	0 (≤50)	-	-
	Perchlorate	1.3	1.4	7 (≤50)	-	-

SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		NERT5.91S1-70.0-20180617	NERT5.91S1-70.0-20180617-FD			
440-213885-1	Chlorate	0.098	0.12	20 (≤50)	-	-

*Indicates Stage 2A validation
**Indicates Stage 4 validation

SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		NERT5.49S1-60.0-20180618	NERT5.49S1-60.0-20180618-FD			
440-213889-1	Chlorate	0.098	0.10	2 (≤50)	-	-
	Perchlorate	0.084	0.096	13 (≤50)	-	-

SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		NERT4.21N1-70.0-20180619	NERT4.21N1-70.0-20180619-FD			
440-214104-1	Chlorate	0.38	0.39	3 (≤50)	-	-
	Perchlorate	0.22	0.20	10 (≤50)	-	-

SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		NERT4.71S1-40.0-20180626**	NERT4.71S1-40.0-20180626-FD**			
440-214510-1	Chlorate	1.3	1.3	0 (≤50)	-	-
	Perchlorate	0.35	0.40	13 (≤50)	-	-

SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		NERT3.80S1-30.0-20180627	NERT3.80S1-30.0-20180627-FD			
440-214614-1	Chlorate	0.072	0.074	3 (≤50)	-	-
	Perchlorate	0.052	0.048	8 (≤50)	-	-

SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		ES-24-30.0-20180730	ES-24-30.0-20180730-FD			
440-217066-1	Chlorate	3.4	3.4	0 (≤50)	-	-
	Perchlorate	1.9	2.0	5 (≤50)	-	-

*Indicates Stage 2A validation
**Indicates Stage 4 validation

SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		ES-24-60.0-20180731	ES-24-60.0-20180731-FD			
440-217066-1	Chlorate	0.029	0.029	0 (≤50)	-	-

SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		ES-22-40.0-20180801**	ES-22-40.0-20180801-FD**			
440-217261-1	Chlorate	0.18	0.19	5 (≤50)	-	-

SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		ES-21-30.0-20180806	ES-21-30.0-20180806-FD			
440-217667-1	Chlorate	0.83	0.84	1 (≤50)	-	-
	Perchlorate	0.10	0.14	33 (≤50)	-	-

SDG	Analyte	Concentration (mg/Kg)		RPD (Limits)	Flag	A or P
		ES-23-40.0-20180813	ES-23-40.0-20180813-FD			
440-218126-1	Chlorate	0.12	0.14	15 (≤50)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		ES-24-20180912*	ES-24-20180912-FD*			
440-219956-1	Chloride	5300 mg/L	5300 mg/L	0 (≤30)	-	-
	Sulfate	11000 mg/L	11000 mg/L	0 (≤30)	-	-
	Alkalinity as CaCO3	66000 ug/L	67000 ug/L	2 (≤30)	-	-
	Bicarbonate ion as HCO3	81000 ug/L	81000 ug/L	0 (≤30)	-	-
	Total dissolved solids	2500000 ug/L	2600000 ug/L	4 (≤30)	-	-

*Indicates Stage 2A validation
**Indicates Stage 4 validation

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		ES-22A-20181113*	ES-22A-20181113-FD*			
440-224310-1	Alkalinity as CaCO3	88000 ug/L	88000 ug/L	0 (≤30)	-	-
	Bicarbonate ion as HCO3	110000 ug/L	110000 ug/L	0 (≤30)	-	-
	Chloride	240 mg/L	240 mg/L	0 (≤30)	-	-
	Hexavalent Chromium	7.0 ug/L	7.3 ug/L	4 (≤30)	-	-
	Nitrate as NO3	23 mg/L	23 mg/L	0 (≤30)	-	-
	Chlorate	2600 ug/L	2600 ug/L	0 (≤30)	-	-
	Perchlorate	1400 ug/L	1500 ug/L	7 (≤30)	-	-
	Sulfate	2200 mg/L	2200 mg/L	0 (≤30)	-	-
	Total dissolved solids	3900000 ug/L	3900000 ug/L	0 (≤30)	-	-
	pH	7.7 SU	7.7 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).

XI. Sample Result Verification

All sample result verifications were acceptable.

Raw data were not reviewed for Stage 2A and Stage 2B validation.

XII. Overall Assessment of Data

The analysis was conducted within all specifications of the methods.

Due to technical holding time and MS/MSD %R, data were rejected in twenty-five samples.

Due to technical holding times, MS/MSD %R and RPD, DUP RPD, and field duplicate RPD, data were qualified as estimated in five hundred ninety-five samples.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable. Sample results that were found to be rejected (R) are unusable for all purposes. Sample results that were found to be estimated (J) are usable for limited purposes only. Based upon the data validation all other results are considered valid and usable for all purposes.

*Indicates Stage 2A validation
**Indicates Stage 4 validation

NERT RI, Phase 3, December 2017 through November 2018
Wet Chemistry - Data Qualification Summary - SDGs 440-198541-1, 440-198663-1, 440-198772-1, 440-198964-1, 440-199067-1, 440-199609-1, 440-199769-1, 440-199942-1, 440-199947-1, 440-200132-1, 440-200133-1, 440-200420-1, 440-200423-1, 440-200635-1, 440-200639-1, 440-200723-1, 440-201039-1, 440-201044-1, 440-201064-1, 440-201212-1, 440-201216-1, 440-201349-1, 440-201352-1, 440-201461-1, 440-201477-1, 440-201555-1, 440-201557-1, 440-201673-1, 440-201674-1, 440-201758-1, 440-201874-1, 440-201886-1, 440-202372-1, 440-202382-1, 440-202713-1, 440-202717-1, 440-203039-1, 440-203681-1, 440-203772-1, 440-203773-1, 440-203943-1, 440-204533-1, 440-204537-1, 440-204592-1, 440-204730-1, 440-205117-1, 440-205129-1, 440-205332-1, 440-205338-1, 440-205464-1, 440-205932-1, 440-206198-1, 440-206356-1, 440-206347-1, 440-206485-1, 440-207182-1, 440-207301-1, 440-207464-1, 440-207515-1, 440-207694-1, 440-207822-1, 440-207962-1, 440-208071-1, 440-208186-1, 440-208388-1, 440-208545-1, 440-208632-1, 440-208783-1, 440-209011-1, 440-209177-1, 440-209484-1, 440-209565-1, 440-209706-1, 440-209838-1, 440-209951-1, 440-212183-1, 440-213750-1, 440-213885-1, 440-213889-1, 440-214104-1, 440-214222-1, 440-214510-1, 440-214614-1, 440-214705-1, 440-217066-1, 440-217261-1, 440-217667-1, 440-218126-1, 440-218214-1, 440-219806-1, 440-219853-1, 440-219956-1, 440-219961-1, 440224188-1, 440-224310-1

SDG	Sample	Analyte	Flag	A or P	Reason (Code)
440-201039-1	POD8-20180112*	Nitrate as NO3	J- (all detects)	P	Technical holding times (h)
440-201039-1	POD8-20180112-FB*	Nitrate as NO3	R (all non-detects)	P	Technical holding times (h)
440-201044-1	ES-2-20180112*	Nitrate as NO3	J- (all detects)	P	Technical holding times (h)
440-201216-1	ES-29-20180115*	Nitrate as NO3	J- (all detects)	P	Technical holding times (h)
440-202713-1	ES-20-20180204*	Nitrate as NO3	J- (all detects)	P	Technical holding times (h)
440-203773-1	ES-29-20180217* ES-29-20180217-FD* ES-8B-20180217* ES-8A-20180218*	Nitrate as NO3	J- (all detects)	P	Technical holding times (h)
440-205129-1	ES-7-20180303*	Nitrate as NO3	J- (all detects)	P	Technical holding times (h)
440-205932-1	ES-19-20180313*	Nitrate as NO3	J- (all detects)	P	Technical holding times (h)

SDG	Sample	Analyte	Flag	A or P	Reason (Code)
440-206198-1	ES-26-20180315*	Nitrate as NO3	J- (all detects)	P	Technical holding times (h)
440-207182-1	MCF-01A-20180326* MCF-01B-20180326* ES-01-20180326* ES-01-20180326-EB* AA-01-20180326*	pH	J (all detects)	P	Technical holding times (h)
440-207301-1	AA-27-20180327* MCF-27-20180327* MCF-03A-20180327* MCF-03A-20180327-FD* MCF-03B-20180327* AA-UW5-20180327* AA-UW1-20180327* AA-UW2-20180327* AA-UW4-20180327* MCF-32B-20180327* ES-8A-20180327-FB* ES-8A-20180327*	pH	J (all detects)	P	Technical holding times (h)
440-207464-1	ES-8B-20180328* MFC-32A-20180328* HMWWT1-20180328* ES-3-20180328* ES-3-20180328-FD*	pH	J (all detects)	P	Technical holding times (h)
440-207694-1	MW-11-20180330* MW-10-20180330* MW-18-20180330* MW-5-20180330* DBMW-22-20180330* DBMW-13-20180330* DBMW-15-20180330* DBMW-16-20180330* DBMW-18-20180330-FD* DBMW-16-20180330*	pH	J (all detects)	P	Technical holding times (h)
440-207822-1	ES-13-20180402* ES-12-20180402* DBMW-4-20180402* DBMW-5-20180402* BEC-10-20180402* ES-11-20180402* ES-10-20180402* DBMW-1-20180402* DBMW-3-20180402*	pH	J (all detects)	P	Technical holding times (h)

SDG	Sample	Analyte	Flag	A or P	Reason (Code)
440-207962-1	DBMW-8-20180403* DBMW-7-20180403* MCF-20A-20180403* MCF-05-20180403* DBMW-14-20180403* DBMW-17-20180403* MCF-07-20180403* AA-07-20180403* MCF-16A-20180403* MCF-16A-20180403-FD*	pH	J (all detects)	P	Technical holding times (h)
440-208071-1	ES-2-20180404* POU3-20180404* ES-4-20180404* ES-4-20180404-EB* ES-4-20180404-FB* POD8-20180404* MCF-16B-20180404* MCF-16C-20180404* MCF-24A-20180404*	pH	J (all detects)	P	Technical holding times (h)
440-208186-1	ES-5-20180405* AA-09-20180405* MCF-09A-20180405* MCF-09B-20180405* MW-4-20180405* BEC-12-20180405* BEC-12-20180405-EB* BEC-7-20180405* MCF-24B-20180405* BEC-9-20180405* BEC-5-20180405* BEC-5-20180405-FD*	pH	J (all detects)	P	Technical holding times (h)
440-208388-1	MCF-06A-R-20180409* ES-28-20180409* ES-30-20180409* ES-31-20180409* ES-31-20180409-FD*	pH	J (all detects)	P	Technical holding times (h)
440-208545-1	DBMW-14-20180410* DBMW-14-20180410-FD* AA-26-20180410* MCF-07-20180410* AA-07-20180410* POD5-R-20180410-FB* ES-19-20180410* ES-20-20180410* ES-20-20180410-EB* MW-04-20180410* MW-05-20180410*	pH	J (all detects)	P	Technical holding times (h)

SDG	Sample	Analyte	Flag	A or P	Reason (Code)
440-208632-1	ES-27-20180411* ES-26-20180411* ES-25A-20180411* ES-25B-20180411* MW-10-20180411* MW-11-20180411* MW-1-20180411* MW-1-20180411-FD* MW-2-20180411* DBMW-22-20180411*	pH	J (all detects)	P	Technical holding times (h)
440-208632-1	ES-27-20180411*	Hexavalent chromium	J- (all detects)	P	Technical holding times (h)
440-208783-1	DM-1-20180412* MCF-06C-20180412* ES-7-20180412* ES-32-20180412* MW-18-20180412* MCF-11-20180412* ES-6-20180412* POD7-R-20180412* HMW-18-20180412* ES-6-20180412-FD* HMW-18-20180412-EB*	pH	J (all detects)	P	Technical holding times (h)
440-209011-1	ES-15-20180416*	pH	J (all detects)	P	Technical holding times (h)
440-209177-1	ES-9-20180417* ES-14b-20180417*	pH	J (all detects)	P	Technical holding times (h)
440-209706-1	MW-23-20180424* MW-12-20180424* MW-25-20180424* MW-21-R-20180424* MW-15-20180424*	pH	J (all detects)	P	Technical holding times (h)
440-209838-1	PC-172D-20180425* PC-168-20180425* PC-176-20180425* MW-20-20180425*	pH	J (all detects)	P	Technical holding times (h)
440-209951-1	MCF-06B-0180426* HMWWT6-20180426* MW-19-20180426*	pH	J (all detects)	P	Technical holding times (h)
440-212183-1	ES-18-20180524* ES-16-20180524* ES-14a-20180524* ES-17-20180524*	pH	J (all detects)	P	Technical holding times (h)

SDG	Sample	Analyte	Flag	A or P	Reason (Code)
440-224310-1	ES-24-20181113* ES-23B-20181113* ES-23A-20181113* ES-22A-20181113-FD* ES-22A-20181113*	Nitrate as NO3	J- (all detects) UJ (all non-detects)	P	Technical holding times (h)
440-198541-1	ES-4-110.0-20171213** ES-4-120.0-20171213** ES-3-10.0-20171212** ES-3-20.0-20171212** ES-3-30.0-20171212** ES-3-40.0-20171212** ES-3-50.0-20171212** ES-3-60.0-20171212** ES-3-70.0-20171212** ES-3-80.0-20171212** ES-3-90.0-20171212** ES-3-100.0-20171212** ES-3-110.0-20171212** ES-3-120.0-20171212** ES-3-50.0-20171212-FD** ES-4-10.0-20171212** ES-4-20.0-20171212** ES-4-30.0-20171212** ES-4-40.0-20171212** ES-4-50.0-20171212**	Perchlorate	J- (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-198663-1	ES-2-10.0-20171213 ES-2-20.0-20171213 ES-2-30.0-20171214 ES-2-40.0-20171214 ES-2-50.0-20171214 ES-2-60.0-20171214 ES-2-70.0-20171214 ES-2-80.0-20171214 ES-2-90.0-20171214 ES-2-100.0-20171214 ES-2-110.0-20171214 ES-2-120.0-20171214	Chlorate	J+ (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-198772-1	ESB-5-10.0-20171216 ESB-5-20.0-20171216 ESB-5-20.0-20171216-FD ESB-5-30.0-20171216 ESB-5-40.0-20171216 ESB-6-40.0-20171217 ESB-6-90.0-20171217 ESB-6-100.0-20171217 ESB-6-110.0-20171217 ESB-6-120.0-20171218	Perchlorate	J- (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-198772-1	ESB-2-100.0-20171216 ESB-3-40.0-20171217	Perchlorate	J+ (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)

*Indicates Stage 2A validation
**Indicates Stage 4 validation

SDG	Sample	Analyte	Flag	A or P	Reason (Code)
440-198964-1	ESB-5-10.0-20171218 ESB-5-20.0-20171218 ESB-5-30.0-20171218 ESB-5-40.0-20171218 ESB-5-50.0-20171218 ESB-5-60.0-20171218 ESB-5-70.0-20171218 ESB-5-80.0-20171218 ESB-5-90.0-20171219 ESB-5-100.0-20171219 ESB-5-110.0-20171219 ESB-5-120.0-20171219 ESB-4-10.0-20171218 ESB-4-20.0-20171218 ESB-4-30.0-20171218 ESB-4-40.0-20171218 ESB-4-50.0-20171218 ESB-4-60.0-20171218 ESB-4-70.0-20171218 ESB-4-80.0-20171218	Chlorate	J- (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-198964-1	ESB-1-10.0-20171220	Perchlorate	J- (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-199067-1	ESB-7-80.0-20171220 ESB-7-80.0-20171220-FD	Perchlorate	UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (RPD) (m, ld)
440-199609-1	ES-30-60.0-20180103 ES-30-70.0-20180103 ES-30-80.0-20180103 ES-30-80.0-20180103-FD	Chlorate	J- (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-199609-1	ES-6-10.0-20180102 ES-6-20.0-20180102 ES-6-20.0-20180102-FD ES-6-30.0-20180102 ES-6-40.0-20180102 ES-6-50.0-20180102 ES-6-60.0-20180102 ES-6-70.0-20180102 ES-6-80.0-20180102 ES-6-80.0-20180102-FD ES-6-90.0-20180103 ES-30-10.0-20180102 ES-30-20.0-20180102 ES-30-20.0-20180102-FD ES-30-30.0-20180103 ES-30-40.0-20180103 ES-30-50.0-20180103	Perchlorate	J+ (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-199947-1	ES-7-10.0-20180107 ES-7-20.0-20180107 ES-7-30.0-20180107 ES-7-40.0-20180108 ES-7-50.0-20180108 ES-7-60.0-20180108 ES-7-70.0-20180108 ES-7-80.0-20180108	Perchlorate	J+ (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)

*Indicates Stage 2A validation
**Indicates Stage 4 validation

SDG	Sample	Analyte	Flag	A or P	Reason (Code)
440-200133-1	ES-1-10.0-20180108 ES-1-20.0-20180108 ES-1-20.0-20180108-FD ES-1-30.0-20180108 ES-1-40.0-20180108 ES-1-50.0-20180108 ES-1-60.0-20180108 ES-1-70.0-20180108 ES-1-80.0-20180108 ES-1-80.0-20180108-FD ES-1-90.0-20180108 ES-1-100.0-20180108 ES-1-110.0-20180109 ES-1-120.0-20180109	Perchlorate	J- (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-200133-1	ES-1-80.0-20180108-FD	Chlorate	J+ (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-200723-1	ESB-9-10.0-20180110 ESB-9-20.0-20180110 ESB-9-20.0-20180110-FD ESB-9-30.0-20180110 ESB-9-37.5-20180110 ESB-9-50.0-20180110 ESB-9-60.0-20180110 ESB-9-70.0-20180110 ESB-9-80.0-20180110 ESB-9-80.0-20180110-FD ESB-9-90.0-20180110 ESB-9-100.0-20180110 ESB-9-110.0-20180110 ESB-9-120.0-20180110 ESB-9-130.0-20180111 ESB-9-140.0-20180111 ESB-9-150.0-20180111 ESB-8-10.0-20180110 ESB-8-20.0-20180110 ESB-8-20.0-20180110-FD	Perchlorate	J- (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-201352-1	EBS-13-10.0-20180116 EBS-13-20.0-20180116 EBS-13-20.0-20180116-FD EBS-13-30.0-20180116 EBS-13-40.0-20180116 EBS-13-50.0-20180116 EBS-13-60.0-20180116 EBS-13-70.0-20180116 EBS-13-80.0-20180116 EBS-13-80.0-20180116-FD EBS-13-90.0-20180116 EBS-13-100.0-20180116 EBS-13-110.0-20180116 EBS-13-120.0-20180116 EBS-13-130.0-20180116 EBS-13-140.0-20180116 EBS-13-150.0-20180116	Perchlorate	J- (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-201555-1	DBMW-1-20180119-FD*	Nitrate as NO3	J+ (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)

*Indicates Stage 2A validation
**Indicates Stage 4 validation

SDG	Sample	Analyte	Flag	A or P	Reason (Code)
440-201557-1	ES-5-20180118* ES-31-20180119*	Nitrate as NO3	J+ (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-201874-1	ES-13-10.0-20180122 ES-13-20.0-20180122 ES-13-20.0-20180122-FD ES-13-30.0-20180122 ES-13-40.0-20180123 ES-13-50.0-20180123 ES-13-60.0-20180123 ES-13-70.0-20180123 ES-13-80.0-20180123 ES-13-80.0-20180123-FD ES-13-90.0-20180123 ES-13-100.0-20180123 ES-13-110.0-20180123 ES-13-120.0-20180123	Perchlorate	J- (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-202382-1	ES-20-10.0-20180130 ES-20-20.0-20180130 ES-20-20.0-20180130-FD ES-20-30.0-20180130 ES-20-40.0-20180130 ES-20-50.0-20180130 ES-20-60.0-20180130 ES-20-70.0-20180130 ES-20-80.0-20180130 ES-20-80.0-20180130-FD ES-20-90.0-20180130 ES-20-100.0-20180130 ES-20-110.0-20180130 ES-20-120.0-20180131 ES-20-130.0-20180131 ES-20-140.0-20180131 ES-20-150.0-20180131 ES-20-160.0-20180131 ES-20-170.0-20180131 ES-20-180.0-20180131 ES-20-190.0-20180131 ES-20-200.0-20180131	Perchlorate	UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-202717-1	ESB-15-10.0-20180204 ESB-15-20.0-20180204 ESB-15-20.0-20180204-FD ESB-15-30.0-20180204 ESB-15-40.0-20180204 ESB-15-50.0-20180204 ESB-15-60.0-20180204 ESB-15-70.0-20180204 ESB-15-80.0-20180204 ESB-15-80.0-20180204-FD ESB-15-90.0-20180204 ESB-15-100.0-20180204 ESB-15-110.0-20180204 ESB-15-130.0-20180204 ESB-15-140.0-20180205 ESB-15-150.0-20180205	Chlorate	J- (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)

SDG	Sample	Analyte	Flag	A or P	Reason (Code)
440-203681-1	ES-10-70.0-20180216 ES-10-80.0-20180216 ES-10-90.0-20180216 ES-10-100.0-20180216 ES-10-110.0-20180216 ES-10-120.0-20180216	Perchlorate	UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-203772-1	ES-14-10.0-20180217 ES-14-20.0-20180217 ES-14-30.0-20180217 ES-14-40.0-20180217 ES-14-50.0-20180217 ES-14-60.0-20180217 ES-14-70.0-20180217 ES-14-80.0-20180217 ES-14-90.0-20180217 ES-14-100.0-20180218 ES-14-110.0-20180218 ES-14-120.0-20180218 ESB-14-10.0-20180217 ESB-14-20.0-20180217	Perchlorate	J- (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-203943-1	ESB-16-60.0-20180221	Chlorate	J- (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-203943-1	ES-9-10.0-20180220 ES-9-20.0-20180220 ES-9-20.0-20180220-FD ES-9-30.0-20180220 ES-9-40.0-20180220 ES-9-50.0-20180220	Perchlorate	J+ (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-203943-1	ES-9-60.0-20180220 ES-9-70.0-20180220 ES-9-80.0-20180220 ES-9-80.0-20180220-FD ES-9-90.0-20180220 ES-9-100.0-20180220 ES-9-110.0-20180220 ES-9-120.0-20180220 ESB-16-10.0-20180220 ESB-16-20.0-20180220 ESB-16-20.0-20180220-FD ESB-16-30.0-20180220 ESB-16-40.0-20180221 ESB-16-50.0-20180221 ESB-16-60.0-20180221 ESB-16-70.0-20180221 ESB-16-90.0-20180221 ESB-16-90.0-20180221-FD ESB-16-80.0-20180221 ESB-16-100.0-20180221	Perchlorate	J- (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)

SDG	Sample	Analyte	Flag	A or P	Reason (Code)
440-204533-1	ESB-18-20.0-20180227** ESB-18-20.0-20180227-FD** ESB-18-30.0-20180227** ESB-18-40.0-20180227** ESB-18-50.0-20180227** ESB-18-60.0-20180227** ESB-18-70.0-20180227**	Perchlorate	J+ (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-204537-1	ESB-17-40.0-20180227	Chlorate	J- (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-204537-1	ESB-17-10.0-20180227 ESB-17-20.0-20180227 ESB-17-30.0-20180227 ESB-17-40.0-20180227 ESB-17-50.0-20180227 ESB-17-60.0-20180227 ESB-17-70.0-20180227 ESB-17-80.0-20180227 ESB-17-90.0-20180227 ESB-17-100.0-20180227 ESB-17-110.0-20180227 ESB-17-120.0-20180227 ESB-17-130.0-20180227 ESB-17-140.0-20180227 ESB-17-150.0-20180227	Perchlorate	J- (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-204592-1	ES-16-10.0-20180228 ES-16-20.0-20180228 ES-16-20.0-20180228-FD ES-16-30.0-20180228 ES-16-40.0-20180228 ES-16-50.0-20180228 ES-16-60.0-20180228 ES-16-70.0-20180228 ES-16-80.0-20180228 ES-16-80.0-20180228-FD ES-16-90.0-20180228 ES-16-100.0-20180228 ES-19-10.0-20180228 ES-19-20.0-20180228 ES-19-30.0-20180228 ES-19-40.0-20180228 ES-19-50.0-20180228 ES-19-60.0-20180228 ES-19-70.0-20180228 ES-19-80.0-20180228 ES-19-90.0-20180228 ES-19-100.0-20180228 ES-19-110.0-20180228 ES-19-120.0-20180301 ES-19-130.0-20180301 ES-19-140.0-20180301 ES-19-150.0-20180301 ES-19-160.0-20180301 ES-19-170.0-20180301 ES-19-180.0-20180301 ES-19-190.0-20180301 ES-19-200.0-20180301 ES-16-110.0-20180228 ES-16-120.0-20180301	Perchlorate	J- (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)

*Indicates Stage 2A validation
**Indicates Stage 4 validation

SDG	Sample	Analyte	Flag	A or P	Reason (Code)
440-204730-1	ES-18-40.0-20180302	Chlorate	J- (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-204730-1	ES-18-10.0-20180302 ES-18-20.0-20180302 ES-18-20.0-20180302-FD ES-18-40.0-20180302 ES-18-50.0-20180302 ES-18-60.0-20180302	Perchlorate	J+ (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-205117-1	ES-26-60.0-20180306 ES-26-70.0-20180306 ES-26-80.0-20180306 ES-26-80.0-20180306-FD	Chlorate	J+ (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-205117-1	ES-25B-10.0-20180306 ES-25B-20.0-20180306 ES-25B-20.0-20180306-FD ES-25B-30.0-20180306 ES-25B-40.0-20180306 ES-25B-50.0-20180306 ES-25B-60.0-20180306 ES-25B-70.0-20180306 ES-25B-80.0-20180306 ES-25B-80.0-20180306-FD ES-25B-90.0-20180306 ES-25B-100.0-20180306 ES-25B-110.0-20180306 ES-25B-120.0-20180306 ES-26-10.0-20180306 ES-26-20.0-20180306 ES-26-20.0-20180306-FD ES-26-30.0-20180306 ES-26-110.0-20180306 ES-26-120.0-20180306	Perchlorate	J- (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-205338-1	ES-27-10.0-20180307 ES-27-20.0-20180307 ES-27-20.0-20180307-FD ES-27-30.0-20180307 ES-27-40.0-20180307 ES-27-50.0-20180307 ES-27-60.0-20180307 ES-27-70.0-20180307 ES-27-80.0-20180307 ES-27-80.0-20180307-FD ES-27-90.0-20180307 ES-27-100.0-20180307 ES-27-110.0-20180307 ES-27-120.0-20180307	Perchlorate	UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)

SDG	Sample	Analyte	Flag	A or P	Reason (Code)
440-206347-1	ESB-10-10.0-20180316 ESB-10-20.0-20180316 ESB-10-20.0-20180316-FD ESB-10-30.0-20180316 ESB-10-40.0-20180316 ESB-10-50.0-20180316 ESB-10-60.0-20180316 ESB-10-70.0-20180316 ESB-10-80.0-20180316 ESB-10-80.0-20180316-FD ESB-10-90.0-20180316 ESB-10-100.0-20180316 ESB-10-110.0-20180316 ESB-10-120.0-20180316 ESB-10-130.0-20180316 ESB-10-140.0-20180317 ESB-10-150.0-20180318 ESB-12-10.0-20180318 ESB-12-20.0-20180318 ESB-12-20.0-20180318-FD	Perchlorate	J- (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-206347-1	ESB-12-30.0-20180318 ESB-12-40.0-20180318 ESB-12-50.0-20180318 ESB-12-60.0-20180318 ESB-12-70.0-20180318 ESB-12-80.0-20180318 ESB-12-80.0-20180318-FD ESB-12-100.0-20180318 ESB-12-110.0-20180318 ESB-12-120.0-20180318 ESB-12-130.0-20180318 ESB-12-140.0-20180318 ESB-12-150.0-20180318	Perchlorate	J- (all detects) R (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-206347-1	ESB-12-90.0-20180318	Perchlorate	UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-206485-1	ESB-11-10.0-20180319 ESB-11-20.0-20180319 ESB-11-20.0-20180319-FD ESB-11-30.0-20180319 ESB-11-40.0-20180319 ESB-11-50.0-20180319 ESB-11-60.0-20180319 ESB-11-70.0-20180319 ESB-11-80.0-20180319 ESB-11-80.0-20180319-FD ESB-11-90.0-20180319 ESB-11-100.0-20180319 ESB-11-110.0-20180319 ESB-11-120.0-20180319 ESB-11-130.0-20180319	Perchlorate	J- (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-207515-1	DMW-9-20180329* DBMW-9-20180329-FD* DBMW-10-20180329* AA-18-20180329* DBMW-12-20180329*	Nitrate as NO3 Chloride	J- (all detects) J- (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)

SDG	Sample	Analyte	Flag	A or P	Reason (Code)
440-207515-1	DMW-9-20180329* DBMW-9-20180329-FD* AA-18-20180329* DBMW-12-20180329*	Sulfate	J- (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-207694-1	MW-11-20180330* MW-10-20180330* MW-18-20180330* MW-5-20180330* DBMW-16-20180330* DBMW-18-20180330-FD*	Perchlorate	J+ (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-207962-1	AA-07-20180403*	Perchlorate	J- (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-208388-1	MCF-06C-20180409* ES-8B-20180409* ES-28-20180409* ES-30-20180409* ES-31-20180409* ES-31-20180409-FD*	Perchlorate	J- (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-208632-1	MW-10-20180411* MW-11-20180411*	Nitrate as NO3	J+ (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-209177-1	ES-9-20180417* ES-14b-20180417*	Perchlorate	J+ (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-209706-1	MW-23-20180424* MW-12-20180424* MW-25-20180424* MW-15-20180424*	Perchlorate	J+ (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-209838-1	PC-172D-20180425* PC-168-20180425* PC-176-20180425*	Sulfide	UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-209951-1	MW-19-20180426*	Perchlorate	J- (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-213750-1	NERT4.51S1-10.0-20180613** NERT4.51S1-20.0-20180613** NERT4.51S1-30.0-20180613** NERT4.51S1-40.0-20180613** NERT4.51S1-40.0-20180613-FD** NERT4.51S1-50.0-20180613**	Perchlorate	J- (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-213885-1	NERT5.11S1-20.0-20180615	Chlorate	J+ (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-213885-1	NERT5.91S1-70.0-20180617 NERT5.91S1-70.0-20180617-FD NERT5.91S1-80.0-20180617	Perchlorate	R (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)

*Indicates Stage 2A validation
**Indicates Stage 4 validation

SDG	Sample	Analyte	Flag	A or P	Reason (Code)
440-213885-1	NERT5.91S1-40.0-20180617 NERT5.91S1-50.0-20180617 NERT5.91S1-60.0-20180617 NERT5.91S1-90.0-20180617	Perchlorate	J- (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-213889-1	NERT5.49S1-10.0-20180618 NERT5.49S1-20.0-20180618 NERT5.49S1-30.0-20180618 NERT5.49S1-40.0-20180618 NERT5.49S1-50.0-20180618 NERT5.49S1-60.0-20180618 NERT5.49S1-60.0-20180618-FD NERT5.49S1-70.0-20180618 NERT5.49S1-80.0-20180618 NERT5.49S1-90.0-20180618	Perchlorate	J- (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-214104-1	NERT4.21N1-10.0-20180619 NERT4.21N1-20.0-20180619 NERT4.21N1-30.0-20180619 NERT4.21N1-40.0-20180619 NERT4.21N1-50.0-20180619 NERT4.21N1-60.0-20180619 NERT4.21N1-70.0-20180619 NERT4.21N1-70.0-20180619-FD NERT4.21N1-80.0-20180619 NERT4.21N1-90.0-20180619 NERT4.38N1-10.0-20180620 NERT4.38N1-20.0-20180620 NERT4.38N1-30.0-20180620 NERT4.38N1-40.0-20180620	Perchlorate	J- (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-214222-1	NERT4.38N1-50.0-20180621** NERT4.38N1-60.0-20180621**	Perchlorate	J- (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-214510-1	NERT4.71S1-10.0-20180626** NERT4.71S1-20.0-20180626** NERT4.71S1-30.0-20180626** NERT4.71S1-40.0-20180626** NERT4.71S1-40.0-20180626-FD** NERT4.71S1-50.0-20180626** NERT4.71S1-60.0-20180626** NERT4.71S1-70.0-20180626**	Perchlorate	J- (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-214705-1	NERT3.80S1-50.0-20180628**	Perchlorate	UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)

SDG	Sample	Analyte	Flag	A or P	Reason (Code)
440-217066-1	ES-24-10.0-20180730 ES-24-20.0-20180730 ES-24-30.0-20180730 ES-24-30.0-20180730-FD ES-24-40.0-20180730 ES-24-50.0-20180731 ES-24-60.0-20180731 ES-24-60.0-20180731-FD ES-24-70.0-20180731 ES-24-80.0-20180731 ES-24-90.0-20180731 ES-24-100.0-20180731 ES-24-110.0-20180731 ES-24-120.0-20180731	Perchlorate	J- (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-217261-1	ES-22-10.0-20180801** ES-22-20.0-20180801** ES-22-20.0-20180801-FD** ES-22-30.0-20180801** ES-22-40.0-20180801** ES-22-40.0-20180801-FD** ES-22-50.0-20180801** ES-22-60.0-20180801** ES-22-70.0-20180801** ES-22-80.0-20180801** ES-22-90.0-20180801** ES-22-100.0-20180801** ES-22-110.0-20180801** ES-22-120.0-20180801**	Chlorate	J- (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-217667-1	ES-21-10.0-20180806 ES-21-20.0-20180806 ES-21-30.0-20180806 ES-21-30.0-20180806-FD ES-21-40.0-20180806 ES-21-50.0-20180806 ES-21-60.0-20180806 ES-21-70.0-20180806 ES-21-80.0-20180806 ES-21-90.0-20180806 ES-21-100.0-20180806 ES-21-110.0-20180806 ES-21-120.0-20180806	Chlorate	J- (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)

*Indicates Stage 2A validation
**Indicates Stage 4 validation

SDG	Sample	Analyte	Flag	A or P	Reason (Code)
440-218126-1	ES-23-10.0-20180813 ES-23-20.0-20180813 ES-23-30.0-20180813 ES-23-40.0-20180813 ES-23-40.0-20180813-FD ES-23-50.0-20180813 ES-23-60.0-20180813 ES-23-70.0-20180813 ES-23-80.0-20180813 ES-23-90.0-20180814 ES-23-100.0-20180814 ES-23-110.0-20180814 ES-23-120.0-20180814 ES-23-130.0-20180814 ES-23-140.0-20180814 ES-23-150.0-20180814 ES-23-160.0-20180814 ES-23-170.0-20180814 ES-23-180.0-20180814	Chlorate	J- (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-218214-1	ES-23-190-20180815 ES-23-200.0-201808015	Chlorate	J- (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-218214-1	ES-23-190-20180815 ES-23-200.0-201808015	Perchlorate	UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-202382-1	ES-20-10.0-20180130 ES-20-20.0-20180130 ES-20-20.0-20180130-FD ES-20-30.0-20180130 ES-20-40.0-20180130 ES-20-50.0-20180130 ES-20-60.0-20180130 ES-20-70.0-20180130 ES-20-80.0-20180130 ES-20-80.0-20180130-FD ES-20-90.0-20180130 ES-20-100.0-20180130 ES-20-110.0-20180130 ES-20-120.0-20180131 ES-20-130.0-20180131 ES-20-140.0-20180131 ES-20-150.0-20180131 ES-20-160.0-20180131 ES-20-170.0-20180131 ES-20-180.0-20180131	Perchlorate	UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (RPD) (ld)
440-204730-1	ES-18-10.0-20180302 ES-18-20.0-20180302 ES-18-20.0-20180302-FD ES-18-30.0-20180302 ES-18-40.0-20180302 ES-18-50.0-20180302 ES-18-60.0-20180302 ES-18-70.0-20180302 ES-18-80.0-20180302 ES-18-80.0-20180302-FD ES-18-90.0-20180302 ES-18-100.0-20180302 ES-18-110.0-20180302 ES-18-120.0-20180302	Perchlorate	J (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (RPD) (ld)

SDG	Sample	Analyte	Flag	A or P	Reason (Code)
440-206347-1	ESB-12-90.0-20180318	Perchlorate	UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (RPD) (ld)
440-217066-1	ES-24-10.0-20180730 ES-24-20.0-20180730 ES-24-30.0-20180730 ES-24-30.0-20180730-FD ES-24-40.0-20180730 ES-24-50.0-20180731 ES-24-60.0-20180731 ES-24-60.0-20180731-FD ES-24-70.0-20180731 ES-24-80.0-20180731 ES-24-90.0-20180731 ES-24-100.0-20180731 ES-24-110.0-20180731 ES-24-120.0-20180731	Perchlorate	J (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (RPD) (ld)
440-218214-1	ES-23-190-20180815 ES-23-200.0-201808015	Chlorate	J (all detects)	A	Matrix spike/Matrix spike duplicate (RPD) (ld)
440-201212-1	MCF-27-20180116* MCF-01A-20180116* MCF-01A-20180116-FD* MCF-11-20180116* BEC-7-20180116* MCF-24A-20180116*	Bicarbonate ion as HCO3	J (all detects)	A	Duplicate sample analysis (RPD) (ld)
440-198772-1	ESB-3-80.0-20171217 ESB-3-80.0-20171217-FD	Chlorate Perchlorate	J (all detects) J (all detects)	A	Field duplicates (RPD) (fd)
440-198964-1	ESB-5-20.0-20171218 ESB-5-20.0-20171218-FD	Perchlorate	J (all detects)	A	Field duplicates (RPD) (fd)
440-204730-1	ES-18-20.0-20180302 ES-18-20.0-20180302-FD	Perchlorate	J (all detects)	A	Field duplicates (RPD) (fd)

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Wet Chemistry - Laboratory Blank Data Qualification Summary - SDGs 440-198541-1, 440-198663-1, 440-198772-1, 440-198964-1, 440-199067-1, 440-199609-1, 440-199769-1, 440-199942-1, 440-199947-1, 440-200132-1, 440-200133-1, 440-200420-1, 440-200423-1, 440-200635-1, 440-200639-1, 440-200723-1, 440-201039-1, 440-201044-1, 440-201064-1, 440-201212-1, 440-201216-1, 440-201349-1, 440-201352-1, 440-201461-1, 440-201477-1, 440-201555-1, 440-201557-1, 440-201673-1, 440-201674-1, 440-201758-1, 440-201874-1, 440-201886-1, 440-202372-1, 440-202382-1, 440-202713-1, 440-202717-1, 440-203039-1, 440-203681-1, 440-203772-1, 440-203773-1, 440-203943-1, 440-204533-1, 440-204537-1, 440-204592-1, 440-204730-1, 440-205117-1, 440-205129-1, 440-205332-1, 440-205338-1, 440-205464-1, 440-205932-1, 440-206198-1, 440-206356-1, 440-206347-1, 440-206485-1, 440-207182-1, 440-207301-1, 440-207464-1, 440-207515-1, 440-207694-1, 440-207822-1, 440-207962-1, 440-208071-1, 440-208186-1, 440-208388-1, 440-208545-1, 440-208632-1, 440-208783-1, 440-209011-1, 440-209177-1, 440-209484-1, 440-209565-1, 440-209706-1, 440-209838-1, 440-209951-1, 440-212183-1, 440-213750-1, 440-213885-1, 440-213889-1, 440-214104-1, 440-214222-1, 440-214510-1, 440-214614-1, 440-214705-1, 440-217066-1, 440-217261-1, 440-217667-1, 440-218126-1, 440-218214-1, 440-219806-1, 440-219853-1, 440-219956-1, 440-219961-1, 440224188-1, 440-224310-1

No Sample Data Qualified in these SDGs

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Wet Chemistry - Field Blank Data Qualification Summary - SDGs 440-198541-1, 440-198663-1, 440-198772-1, 440-198964-1, 440-199067-1, 440-199609-1, 440-199769-1, 440-199942-1, 440-199947-1, 440-200132-1, 440-200133-1, 440-200420-1, 440-200423-1, 440-200635-1, 440-200639-1, 440-200723-1, 440-201039-1, 440-201044-1, 440-201064-1, 440-201212-1, 440-201216-1, 440-201349-1, 440-201352-1, 440-201461-1, 440-201477-1, 440-201555-1, 440-201557-1, 440-201673-1, 440-201674-1, 440-201758-1, 440-201874-1, 440-201886-1, 440-202372-1, 440-202382-1, 440-202713-1, 440-202717-1, 440-203039-1, 440-203681-1, 440-203772-1, 440-203773-1, 440-203943-1, 440-204533-1, 440-204537-1, 440-204592-1, 440-204730-1, 440-205117-1, 440-205129-1, 440-205332-1, 440-205338-1, 440-205464-1, 440-205932-1, 440-206198-1, 440-206356-1, 440-206347-1, 440-206485-1, 440-207182-1, 440-207301-1, 440-207464-1, 440-207515-1, 440-207694-1, 440-207822-1, 440-207962-1, 440-208071-1, 440-208186-1, 440-208388-1, 440-208545-1, 440-208632-1, 440-208783-1, 440-209011-1, 440-209177-1, 440-209484-1, 440-209565-1, 440-209706-1, 440-209838-1, 440-209951-1, 440-212183-1, 440-213750-1, 440-213885-1, 440-213889-1, 440-214104-1, 440-214222-1, 440-214510-1, 440-214614-1, 440-214705-1, 440-217066-1, 440-217261-1, 440-217667-1, 440-218126-1, 440-218214-1, 440-219806-1, 440-219853-1, 440-219956-1, 440-219961-1, 440224188-1, 440-224310-1

No Sample Data Qualified in these SDGs